Appendix J

Hydrology Report and LID Report

ESA

LAND DEVELOPMENT DIVISION
STORM DRAIN & HYDROLOGY UNIT

TO: Fuscoe DATE 4/11/23
ATTN: Sue Williams

REVIEW OF REVISED HYDROLOGY STUDY

TR NO. **83534**

DATE OF REPORT **03/30/2023**
PLAN CHECK NO. **1 (Revision 2)**
PLAN CASE NO. **ESTU2021000469**

We have reviewed your Hydrology Study.

[X] The Hydrology Study has been approved.

REVIEWED BY _____
Alex Mikhailpoor - (626) 458-4921

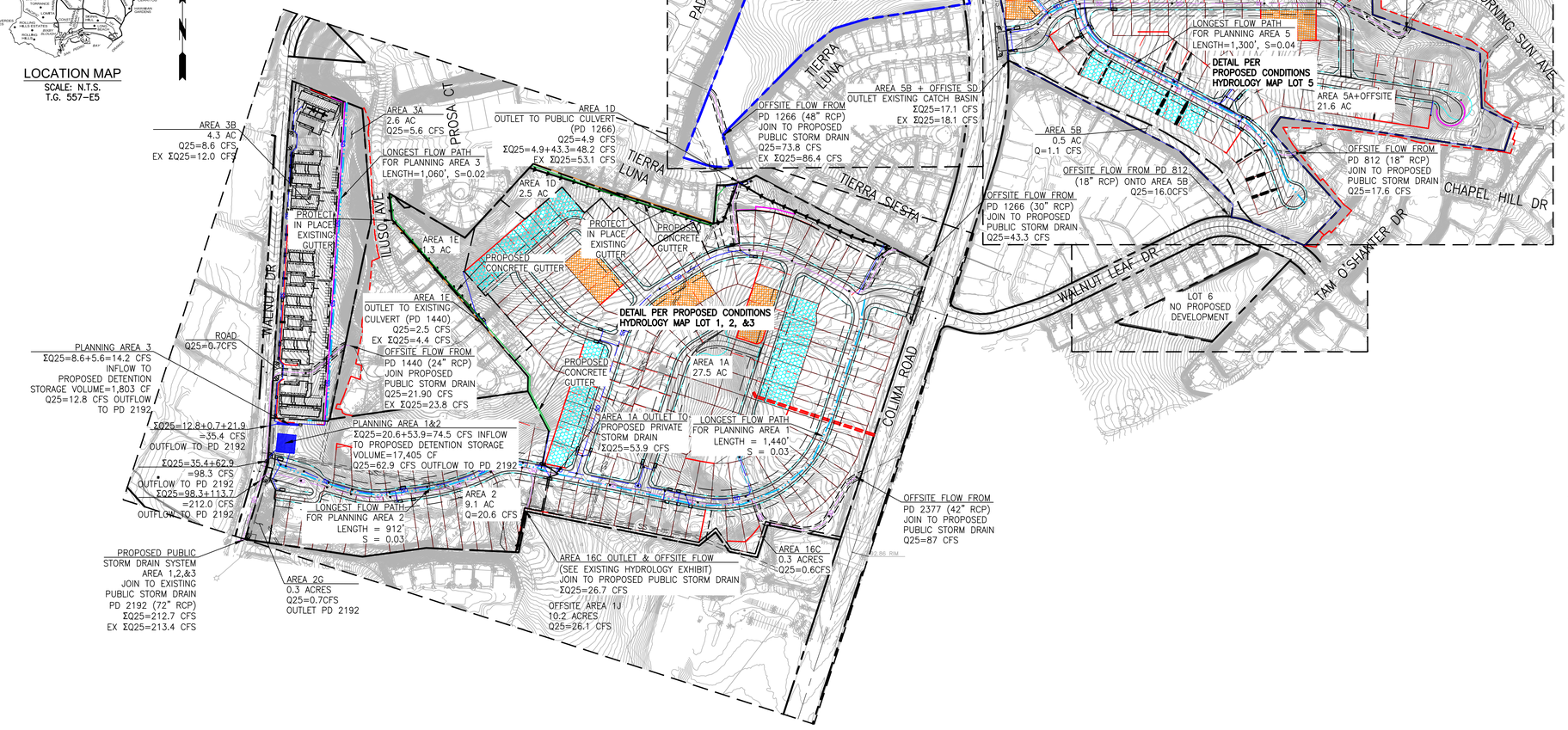
APPROVED BY: Thong Ngov

CIVIL ENGINEER'S NOTE:

- ONSITE GUTTERS, ROADS, AND PRIVATE STORM DRAINS & DETENTION TANKS WILL BE MAINTAINED BY HOA. PD. STORM DRAIN EXTENSIONS WILL BE PUBLIC, WITHIN AN EASEMENT TO ALLOW FOR ACCESS BY PUBLIC AGENCY.



LOCATION MAP
SCALE: N.T.S.
T.G. 557-E5



200' 0' 100' 200' 400'
SCALE: 1" = 200'

HATCH LEGEND

	DUPLEX
	TRIPLEX

LEGEND

	PROPERTY LINE / RIGHT-OF-WAY-LINE
	PROPOSED PRIVATE STORM DRAIN
	PROPOSED PUBLIC STORM DRAIN
	DRAINAGE SUBAREAS
	LONGEST FLOW LINE
	OFFSITE SHEET FLOW ONTO PROJECT SITE
	FLOW PATH
	EXISTING CONCRETE GUTTER
	PROPOSED CONCRETE GUTTER
RCP	REINFORCED CONCRETE PIPE
CFS	CUBIC FEET PER SECOND
PD	PUBLIC DRAIN
S	SLOPE
	PREVIOUSLY PROPOSED LOT LINE
	PREVIOUSLY PROPOSED STREET EASEMENT

PLANNING AREA	AREA (ACRES)	PERCENT IMPERVIOUS
1	31.6	35%
2	9.5	33%
3	6.1	35%
5	21.1	27%
OFFSITE 01 (16C)	10.2	0%
OFFSITE 02	0.7	0%
OFFSITE 03	0.2	0%
OFFSITE 04	1.0	0%

NAME	AREA (ACRES)	Q25 (CFS)	DISCHARGE POINT
1A	27.5	53.9	DETENTION 01
2	9.1	20.6	DETENTION 01
1D	2.5	4.9	PD 1266
1E	1.3	2.5	PD 1440
2G	0.3	0.7	PD 2192
1J	10.2	20.6	PD 2192
16C	0.3	0.6	PD 2192
3A	2.6	5.6	DETENTION 02
3B	4.3	8.6	DETENTION 02
5A	21.6	46.2	DETENTION 05
5B	0.5	1.1	CATCH BASIN
OFFSITE 02	0.7	1.6	AREA 3A
OFFSITE 03	0.2	0.4	AREA 3A
OFFSITE 04	1.0	1.9	AREA 5A

50-YEAR RAINFALL	6.5"
SOIL TYPE	002
DPA ZONE	7
BURN FACTOR	N/A
BULKING FACTOR	N/A
PROJECT DESIGN STORM	25-YEAR

NOTES:
1. NOT WITHIN COUNTY ADOPTED FLOODWAY.
2. NOT WITHIN FEMA FLOODZONE "A".

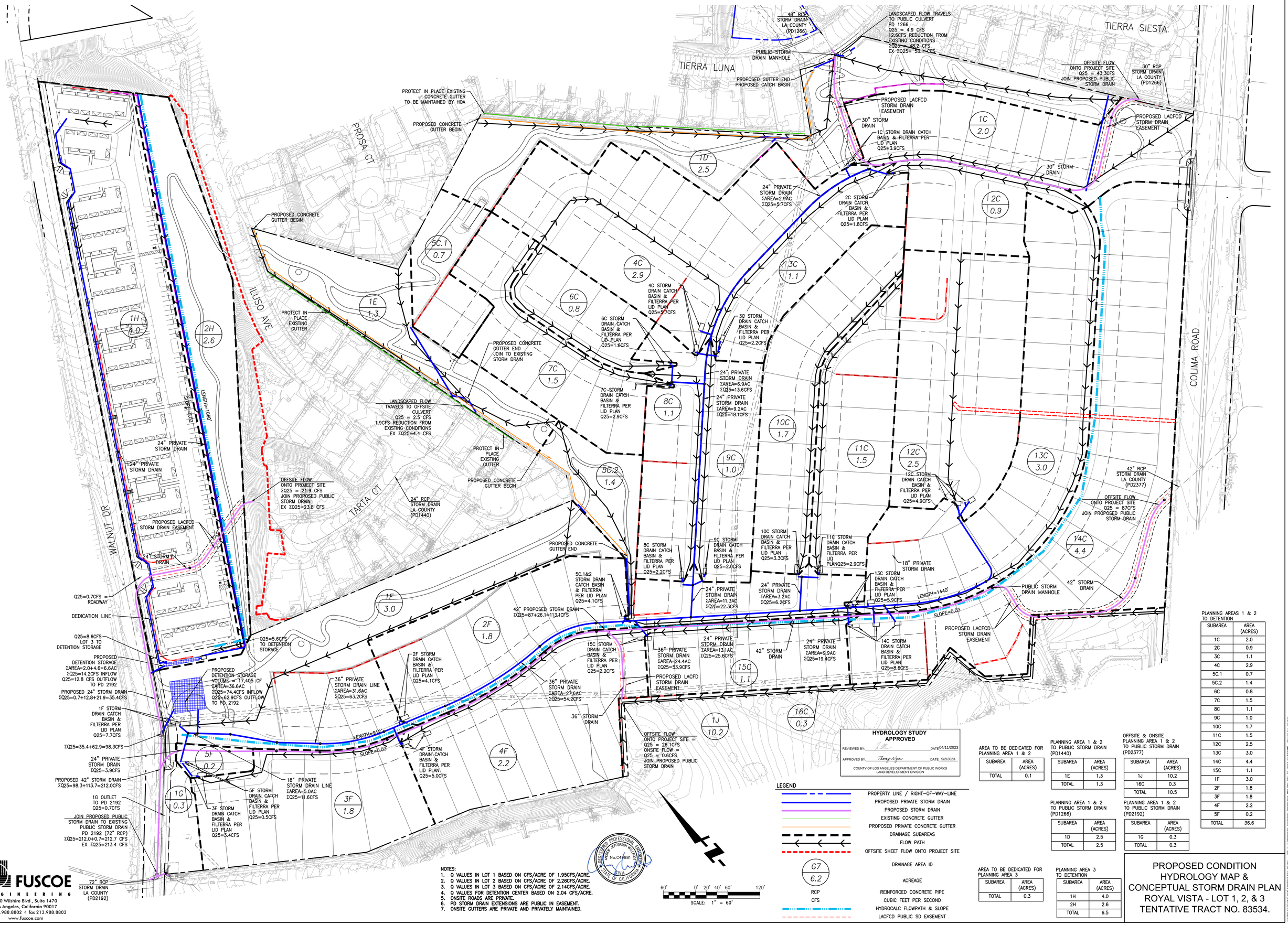
HYDROLOGY STUDY APPROVED
REVIEWED BY: _____ DATE 04/11/2023
APPROVED BY: Thong Ngov DATE 5/2/2023
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
LAND DEVELOPMENT DIVISION

REGISTERED PROFESSIONAL ENGINEER ANDREW JEFFERSON WILLARD No.C49881 CIVIL STATE OF CALIFORNIA

FUSCOE ENGINEERING
600 Wilshire Blvd., Suite 1470
Los Angeles, California 90017
tel 213.988.8802 ◦ fax 213.988.8803
www.fuscoe.com

PROPOSED CONDITION HYDROLOGY MAP & CONCEPTUAL STORM DRAIN PLAN ROYAL VISTA - OVERALL TENTATIVE TRACT NO. 83534.

P:\PROJECTS\4010\04\CAD\RPTS\4010-04HYA - OVERALL PROPOSED CONDITION HYDROLOGY MAP.DWG (03-30-2023 9:13:19AM) Plotted by: ayotan



HYDROLOGY STUDY APPROVED

REVIEWED BY: _____ DATE 04/11/2023

APPROVED BY: Thang Nguyen DATE 5/2/2023

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
LAND DEVELOPMENT DIVISION

REGISTERED PROFESSIONAL ENGINEER ANDREW PETERSON WILTSEY No.C49881 CIVIL STATE OF CALIFORNIA

LEGEND

- PROPERTY LINE / RIGHT-OF-WAY-LINE
- PROPOSED PRIVATE STORM DRAIN
- PROPOSED STORM DRAIN
- EXISTING CONCRETE GUTTER
- PROPOSED PRIVATE CONCRETE GUTTER
- DRAINAGE SUBAREAS
- FLOW PATH
- OFFSITE SHEET FLOW ONTO PROJECT SITE
- G7 6.2 — DRAINAGE AREA ID / ACREAGE
- RCP — REINFORCED CONCRETE PIPE
- CFS — CUBIC FEET PER SECOND
- HYDROCALC FLOWPATH & SLOPE
- LACFCD PUBLIC SD EASEMENT

NOTES:

1. Q VALUES IN LOT 1 BASED ON CFS/ACRE OF 1.95CFS/ACRE.
2. Q VALUES IN LOT 2 BASED ON CFS/ACRE OF 2.26CFS/ACRE.
3. Q VALUES IN LOT 3 BASED ON CFS/ACRE OF 2.14CFS/ACRE.
4. Q VALUES FOR DETENTION CENTER BASED ON 2.04 CFS/ACRE.
5. ONSITE ROADS ARE PRIVATE.
6. PD STORM DRAIN EXTENSIONS ARE PUBLIC IN EASEMENT.
7. ONSITE GUTTERS ARE PRIVATE AND PRIVATELY MAINTAINED.

AREA TO BE DEDICATED FOR PLANNING AREA 1 & 2

SUBAREA	AREA (ACRES)
TOTAL	0.1

AREA TO BE DEDICATED FOR PLANNING AREA 3

SUBAREA	AREA (ACRES)
TOTAL	0.3

PLANNING AREA 1 & 2 TO PUBLIC STORM DRAIN (PD1440)

SUBAREA	AREA (ACRES)
1E	1.3
TOTAL	1.3

PLANNING AREA 1 & 2 TO PUBLIC STORM DRAIN (PD1266)

SUBAREA	AREA (ACRES)
1D	2.5
TOTAL	2.5

PLANNING AREA 3 TO DETENTION

SUBAREA	AREA (ACRES)
1H	4.0
2H	2.6
TOTAL	6.5

OFFSITE & ONSITE PLANNING AREA 1 & 2 TO PUBLIC STORM DRAIN (PD2377)

SUBAREA	AREA (ACRES)
1J	10.2
16C	0.3
TOTAL	10.5

PLANNING AREA 1 & 2 TO PUBLIC STORM DRAIN (PD2192)

SUBAREA	AREA (ACRES)
1G	0.3
TOTAL	0.3

PLANNING AREAS 1 & 2 TO DETENTION

SUBAREA	AREA (ACRES)
1C	2.0
2C	0.9
3C	1.1
4C	2.9
5C.1	0.7
5C.2	1.4
6C	0.8
7C	1.5
8C	1.1
9C	1.0
10C	1.7
11C	1.5
12C	2.5
13C	3.0
14C	4.4
15C	1.1
1F	3.0
2F	1.8
3F	1.8
4F	2.2
5F	0.2
TOTAL	36.6

PROPOSED CONDITION HYDROLOGY MAP & CONCEPTUAL STORM DRAIN PLAN ROYAL VISTA - LOT 1, 2, & 3 TENTATIVE TRACT NO. 83534.

FUSCOE ENGINEERING
600 Wilshire Blvd., Suite 1470
Los Angeles, California 90017
tel 213.988.8802 • fax 213.988.8803
www.fuscoe.com

I:\PROJECTS\456\DOCS\EXHIBITS\456-EXHIBIT-HYDROLOGY MAP.DWG [01-30-2023 11:15AM] Plotted by: kjordan

LEGEND

- PROPERTY LINE / RIGHT-OF-WAY-LINE
- PROPOSED PRIVATE STORM DRAIN
- PROPOSED STORM DRAIN
- DRAINAGE SUBAREAS
- DIRECTION OF FLOW
- OFFSITE SHEET FLOW ONTO PROJECT SITE
- G7 / 6.2 — DRAINAGE AREA ID / ACREAGE
- RCP — REINFORCED CONCRETE PIPE
- CFS — CUBIC FEET PER SECOND
- HYDROCALC FLOWPATH & SLOPE
- LACFCD PUBLIC SD EASEMENT

AREA TO OFFSITE CATCH BASIN

SUBAREA	AREA (ACRES)
1B	0.5
TOTAL	0.5

AREA TO DETENTION

SUBAREA	AREA (ACRES)
1A	4.1
2A	2.7
3A	1.6
4A	1.1
5A	1.8
6A	2.1
7A	1.1
8A	1.5
9A	3.7
10A	1.9
TOTAL	21.6

ΣQ25=125.9+17.1=143.0 CFS
EX ΣQ25=146.6 CFS

PROPOSED DETENTION STORAGE VOLUME = 10,350 CF
Q25=46.2 CFS INFLOW
Q25=37.8 CFS OUTFLOW

EXISTING 36" CONCRETE CULVERT

PROPOSED LACFCD STORM DRAIN EASEMENT

OUTFLOW TO EXISTING 36" CULVERT
ΣQ25=88.1+37.8 =125.9 CFS
EX ΣQ25=128.5 CFS

24" STORM DRAIN
ΣAREA=21.6AC
ΣQ25=46.2CFS

PROPOSED 36" STORM DRAIN

24" STORM DRAIN
ΣAREA=16.0AC
ΣQ25=34.4CFS

PROPOSED 36" STORM DRAIN
ΣQ25=88.1CFS

24" PRIVATE STORM DRAIN
ΣAREA=3.9AC
ΣQ25=8.4CFS

5A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=3.9CFS

9A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=7.8CFS

APPROXIMATE ALIGNMENT OF EXISTING 24" STORM DRAIN FROM EXISTING CATCH BASIN TO EXISTING 36" CULVERT

ΣQ25=22.8CFS
7A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=2.4CFS

6A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=4.5CFS

PROPOSED LACFCD STORM DRAIN EASEMENT

33" STORM DRAIN

24" STORM DRAIN
ΣAREA=12.1AC
ΣQ25=26.0CFS

24" STORM DRAIN
ΣAREA=5.6AC
ΣQ25=11.8CFS

8A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=3.2CFS

10A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=4.0CFS

LANDSCAPED FLOW TRAVELS TO OFFSITE CATCH BASIN
Q25=1.1CFS
ΣQ25=1.1+16.0=17.1CFS
EX Q25=18.1 CFS

PROPOSED LACFCD STORM DRAIN EASEMENT

LENGTH=1300'
SLOPE=0.04

24" STORM DRAIN
ΣAREA=6.8AC
ΣQ25=14.6CFS

1A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=8.8CFS

2A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=5.8CFS

3A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=3.4CFS

PROPOSED 24" STORM DRAIN

24" STORM DRAIN
ΣAREA=9.5AC
ΣQ25=20.4CFS

24" STORM DRAIN
ΣAREA=2.7AC
ΣQ25=5.8CFS

4A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=2.4CFS

PROOSED 24" STORM DRAIN

33" RCP STORM DRAIN LA COUNTY (PD0812)

PROPOSED 33" STORM DRAIN

PROPOSED LACFCD STORM DRAIN EASEMENT

OFFSITE FLOW ONTO PROJECT SITE PD 0812 (33" RCP) Q25 = 70.5CFS JOIN PROPOSED PUBLIC STORM DRAIN

OFFSITE FLOW ONTO PROJECT SITE Q25 = 17.6CFS JOIN PROPOSED STORM DRAIN

18" RCP STORM DRAIN LA COUNTY (PD0812)

OFFSITE FLOW ONTO PROJECT SITE Q25 = 16.0CFS

18" RCP STORM DRAIN LA COUNTY (PD0812)

COLIMA ROAD
MORNING SUN AVE
CHAPEL HILL DR
WALNUT LEAF DR

NOTES:
1. Q VALUES IN LOT 5 BASED ON CFS/ACRE OF 2.14CFS/ACRE.

REGISTERED PROFESSIONAL ENGINEER
ANDREW JEFFERSON WILLARD
No. C49881
CIVIL
STATE OF CALIFORNIA

60' 0' 20' 40' 60' 120'
SCALE: 1" = 60'

HYDROLOGY STUDY APPROVED
REVIEWED BY: _____ DATE 04/11/2023
APPROVED BY: Thong Ngov DATE 5/2/2023
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
LAND DEVELOPMENT DIVISION

FUSCOE ENGINEERING
600 Wilshire Blvd., Suite 1470
Los Angeles, California 90017
tel 213.988.8802 ◦ fax 213.988.8803
www.fuscoe.com

PROPOSED CONDITION HYDROLOGY MAP & CONCEPTUAL STORM DRAIN PLAN ROYAL VISTA - LOT 5 TENTATIVE TRACT NO. 83534.

C:\PROJECTS\2021\21044\EXHIBITS\EXH_21044 - EXH 5 PROPOSED CONDITION HYDROLOGY MAP.DWG (03-30-2023 8:14:07AM) Plotted by: ajensen

HYDROLOGY STUDY APPROVED

REVIEWED BY: _____ DATE 05/02/2023

APPROVED BY: Thong Ngou DATE 05/02/2023

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
LAND DEVELOPMENT DIVISION

FUSCOE ENGINEERING



HYDROLOGY REPORT

Royal Vista Residential Project

Tentative Tract No.83534

County Plan Case No. ESTU2021000469

Prepared For
Project Dimensions, Inc.
4 Park Plaza, Suite 700
Irvine, CA 92614
949.476.2246

Prepared By
Fuscoe Engineering, Inc.
600 Wilshire Blvd., Suite 1470
Los Angeles, California 90017
213.988.8802
www.fuscoe.com

REGISTERED PROFESSIONAL ENGINEER
ANDREW JEFFERSON WILLRODT
No.C49881
CIVIL
STATE OF CALIFORNIA

Project Manager:
Andy Willrodt, P.E.

Date Prepared: March 2023

Job Number: 662.004

full circle thinking®

TR8534-Royal Vista Residential Project – Narrative of Revisions:

The items that changed are that Lots 4 and 6 were originally being developed as park (original approved reports), but are now being left alone, and are not being developed. Lots 4 and 6 will remain as part of the open-space component of the project. Therefore, the hydrology and LID calculations and BMP's that were originally located on Lots 4 and 6 have been eliminated from the report.

HYDROLOGY REPORT

Royal Vista Residential Project

Tentative Tract No.83534

County Plan Case No. ESTU2021000469

Prepared By:

March 30, 2023

Andy Willrodt RCE 49881
Fuscoe Engineering
600 Wilshire Blvd., Suite 1470
Los Angeles, CA 90017



For

Project Dimensions, INC.
4 Park Plaza, Suite 700
Irvine, CA 92614
949.476.2246

March 2023

Table of Contents

1.0 INTRODUCTION 3
1.1 PROJECT INTRODUCTION AND BACKGROUND 3
1.2 PROJECT SITE VICINITY MAP 4
1.3 PROJECT OBJECTIVES 5
1.4 PURPOSE OF THIS REPORT 6
1.5 REFERENCES 6
2.0 EXISTING TOPOGRAPHIC & HYDROLOGIC CONDITIONS 7
2.1 EXISTING TOPOGRAPHY 7
2.2 EXISTING DRAINAGE PATTERNS 7
2.3 EXISTING STORM DRAIN FACILITIES 7
3.0 HYDROLOGY 10
3.1 STORM FREQUENCY 10
3.2 HYDROLOGIC PARAMETERS 10
3.3.1 METHODOLOGY & CRITERIA 11
3.3.2 DETENTION ANALYSES 12
3.4 EXISTING CONDITION HYDROLOGY 12
3.5 PROPOSED CONDITION HYDROLOGY 15
4.0 STORM DRAIN & DETENTION FACILITIES 18
5.0 PROPOSED PRIVATE DRAINS TO CONNECT TO EXISTING 19
6.0 RESULTS AND CONCLUSIONS 20

Appendix 1 Royal Vista Residential Project Site Plan
Appendix 2 Los Angeles County Reference Material
Appendix 3 Existing Storm Drain Plans & Maps
Appendix 4 Impervious Area Calculations
Appendix 5 Existing HydroCalc Hydrology Calculations
Appendix 6 Proposed HydroCalc Hydrology Calculations
Appendix 7 Detention Calculations
Appendix 8 FEMA
Appendix 9 Existing Condition Hydrology Maps
Appendix 10 Proposed Condition Hydrology & Concept Storm Drain Maps
Appendix 11 Preliminary Hydraulics Analyses
Appendix 12 Detention Stage-Discharge Calculations
Appendix 13 Colima Road Culvert Exhibit

1.0 INTRODUCTION

1.1 PROJECT INTRODUCTION AND BACKGROUND

The 75-acre Royal Vista Residential Project (Project) is in Unincorporated County of Los Angeles (County), in the northeastern-most part of the Rowland Heights Community, California. The Project Site encompasses six (6) parcels located both north and south of Colima Road, including Assessor Parcel Numbers (APNs) 8762-022-002, 8762-023-001, 8762-023-002, 8762-027-039, 8764-002-005, and 8764-002-006 (Los Angeles County Office of the Assessor, 2021), and located in the 20100 block of Colima Road, Rowland Heights, California 91789. The Project Site parcels constitute 13 holes and the driving range of the existing 27-hole Royal Vista Golf Club on Colima Road. The Project Site is bisected by Colima Road, is comprised of 53 acres and four parcels north of Colima Road, and 22 acres and two parcels south of Colima Road. A project site vicinity map is included in this report as Figure 1.

The Project Site is located within a developed and urbanized area. Single-family residential development immediately surrounds the Project Site on all sides except the north. Commercial and hotel developments are located to the north, along East Walnut Drive South, including a Quality Inn, supply goods store, home improvement, storage facility, along with associated surface parking lot areas. The existing golf course, landscaping, and residential development surround the southeasternmost edge of the Project Site. Land uses further north of the Project Site, between SR-60 (Pomona Freeway) and Valley Boulevard, include business parks and commercial uses such as, car wash, restaurants, dance studio, gas station, storage facilities, and several retail stores.

Proposed planning area Lot 1 is bordered on the south by Colima Road, by residential development to the north and to the east, and the Royal Vista Golf Club clubhouse and surface parking lot to the west. Proposed planning area Lot 2 is bordered by East Walnut Drive South on the north, residential development to the east and west, and the Royal Vista Golf Club and proposed planning area Lot 1 to the south. Proposed planning area Lot 3 is bordered by East Walnut Drive South on the north, proposed planning area Lot 2 to the west, residential development and Iluso Avenue/Tarta Court to the south and a single-family home to the east. Planning area Lot 4 is bordered by Colima Road to the south, and residential development to the north, east, and west. Proposed planning area Lot 5 is bordered on the north by Colima Road, and by residential development to the west, east and south. Planning area Lot 6 is bordered by residential single-family homes on the north and south, Walnut Leaf Drive to the east, and the Royal Vista Golf Club to the west. Please note that Planning Area Lots 4 and 6 will remain as open-space, and will not be developed. A site plan is included in this report as Appendix 1.

1.2 PROJECT SITE VICINITY MAP

The locations for each of the six lots being developed are identified in the vicinity map shown below as Figure 1.1.

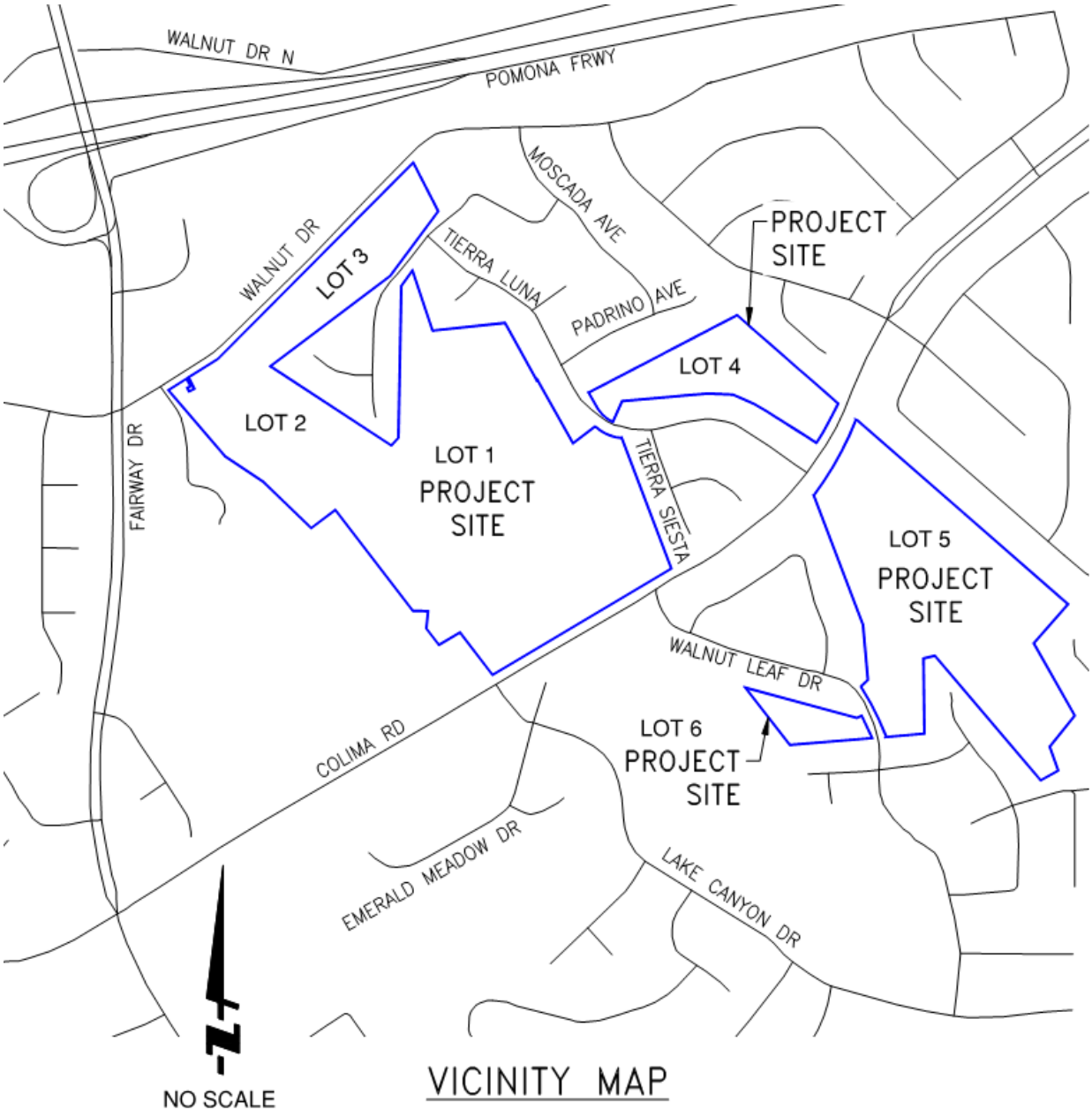


FIGURE 1.1

1.3 PROJECT OBJECTIVES

The proposed Project would redevelop an underutilized area for the purpose of needed residential housing. The proposed Royal Vista Residential Project is designed to complement the Rowland Heights community character, natural features, and surrounding neighborhoods. Where possible, mature specimen trees will be preserved. The proposed Project is designed to avoid adverse impacts on the neighboring residential community through incorporation of open space buffers that include recreational trails. As set forth by the State CEQA Guidelines, the following objectives are important to achieving the Project's land use purpose:

- Provide needed housing within an unincorporated area of Los Angeles County.
- Preserve the Rowland Heights community character while providing reasonable community growth.
- Preserve existing condition open space for Planning Area Lots 4 and 6.
- Design the residential development in a manner consistent with the existing surrounding residential community.
- Develop the Project Site in a cost-effective manner, that balances community development with environmental considerations.
- Provide a range of residential opportunities to include townhome and single-family options.

1.4 PURPOSE OF THIS REPORT

The purpose of this Hydrology Report is to prepare and present concept-level hydrologic and hydraulics analyses of the 25-year storm event for the existing and proposed conditions of the six lots associated with the proposed Royal Vista Residential Project. Outcomes of the analyses will facilitate the design of drainage and detention systems that will provide adequate conveyance and stormwater control without adversely impacting the proposed development, surrounding areas, neighboring properties, and/or existing storm drain facilities. In addition, the report will indicate proposed extensions of the public LACFCD storm drain facilities that would be required to complete the proposed development.

1.5 REFERENCES

The following references were used to evaluate hydrologic and hydraulics analyses presented in this report:

- Los Angeles County Hydrology Manual (January 2006)
- As-built Storm Drain Plans
- HydroCalc software (Los Angeles County)
- Hydraulic Toolbox (FHWA) Detention Routing Software
- Flowmaster Hydraulic Software (Bentley)

Reference documentation obtained from Los Angeles County Department of Public Works is included in Appendix 2 of this report. Copies of as-built storm drain plans are included in Appendix 3.

2.0 EXISTING TOPOGRAPHIC & HYDROLOGIC CONDITIONS

2.1 EXISTING TOPOGRAPHY

The existing site is a golf course, and includes mild sloping grass areas, along with gutters and swales that meander through the project areas. As determined from site visits, aerial photos and topographic maps, the site lots slope towards the northerly and westerly directions at gradients of 4% - 7%. The project site areas are currently each set below the neighboring residential developments.

2.2 EXISTING DRAINAGE PATTERNS

The existing drainage patterns for the site lots are consistent with existing topography, which conveys storm flows from the south and southeast toward the north and northwest. Stormwater flows are routed through the existing swales and gutters, which convey storm flows to Los Angeles County Flood Control District (LACFCD) public facilities at the northerly and northwesterly portions of the site.

2.3 EXISTING STORM DRAIN FACILITIES

As previously stated, the existing onsite swales and gutters convey storm flows to public (LACFCD) facilities at the northerly and northwesterly portions of the site. The storm drains facilities associated with the various project lots are discussed in the following paragraphs.

Lots 1, 2, 3, and 4 are located at the westerly and northwesterly portions of the project. These lots are associated with several public storm drain facilities, as follows (see also Figure 2.1):

- PD 2377 (42" RCP) @ Colima Road: This drain currently crosses Colima Road, and discharges onto the existing Lot 1 portion of the golf course, and drains via surface flow in a swale, ultimately to the existing PD 2192 (72" RCP) in Walnut Drive.

- PD 1266/Line "A" (30" RCP) @ Colima Road: This drain crosses Colima Road, and discharges into Lot 1, where it is conveys the drainage in an existing swale to culvert PD 1266/Line "B" (48" RCP) @ Tierra Luna. From there the drainage is conveyed through Lot 4, and then to PD 1369 (48" RCP).

- PD 1440 @ Tarta Court/Illuso Avenue (24" RCP): This drain accepts a few acres of drainage from Lot 1, and the drainage is conveyed in the storm drain through the residential development, discharging into Lot 3 to the north. From there the drainage is conveyed in a concrete gutter to Walnut Drive, then conveyed in an earthen swale along the roadway, ultimately to PD 2192 (72") in Walnut Drive.

- PD 2192 @ Walnut Drive (72" RCP): This drain currently accepts stormwater flows from Lots 2 and 3, most of Lot 1, and offsite drainage from the southwest, along with drainage from PD 2377 (42" RCP) at Colima Road.



FIGURE 2.1 – Existing Drainage Facilities @ Lots 1, 2, 3, & 4

Lot 4, located at the easterly portion of the project, is tributary to PD 506 (36" RCP) and PD 1369 (48" RCP). Drainage from PD 1266 Line "B" at Tierra Luna and the existing 36" Line "A" culvert in Colima Road is tributary to Lot 4. Lot 4 currently drains to PD 1369 and PD 0506. See Figures 2.1 and 2.2 for locations. Lot 4 will not be developed for this project.

Lot 5, located at the southeasterly portion of the project, is associated with many public and private storm drain facilities, as follows (see also Figure 2.2):

- PD 0812 @ Chapel Hill Drive / Line "E" (18" RCP): This drain currently discharges onto the Lot 5 portion of the golf course and drains via surface flow to the existing 36" private drain in Colima Road.

- PD 0812 @ Morning Sun Avenue / Line "H" (33" RCP): This drain currently discharges onto the Lot 5 portion of the golf course and drains via surface flow to the existing 36" private drain in Colima Road.

- PD 0812 @ Walnut Leaf Drive / Line "A" (18" RCP): This drain currently discharges onto an existing concrete gutter along the westerly boundary of Lot 5, and is ultimately discharged into an existing catch basin, with a 24" outlet. It is assumed that the 24" outlet conveys the drainage to a connection to the existing 36" storm drain culvert discussed previously.

- Existing 36" culvert @ Colima Road: This drain currently accepts drainage from the three public drains discussed above, along with most of Lot 5 drainage. This drain conveys the stormwater into Lot 4, described previously.

- Existing 24" storm drain: This drain currently accepts drainage from PD 0812 @ Walnut Leaf Drive, along with a small portion of Lot 5, and is assumed to connect to the existing 36" storm drain in Colima. Confirmation of alignment of this storm drain will be performed during final design.

Lot 6 is located at the southwesterly corner of the project site. This site is southerly and westerly of Walnut Leaf Drive. The drainage in Lot 6 is in a northwesterly direction, toward Colima Road, and drains to Los Angeles County PD 2192. Lot 6 will not be developed for this project.

Applicable copies of the storm drain as-built plans associated with this project and discussed in this section are included in Appendix 3 of this report.

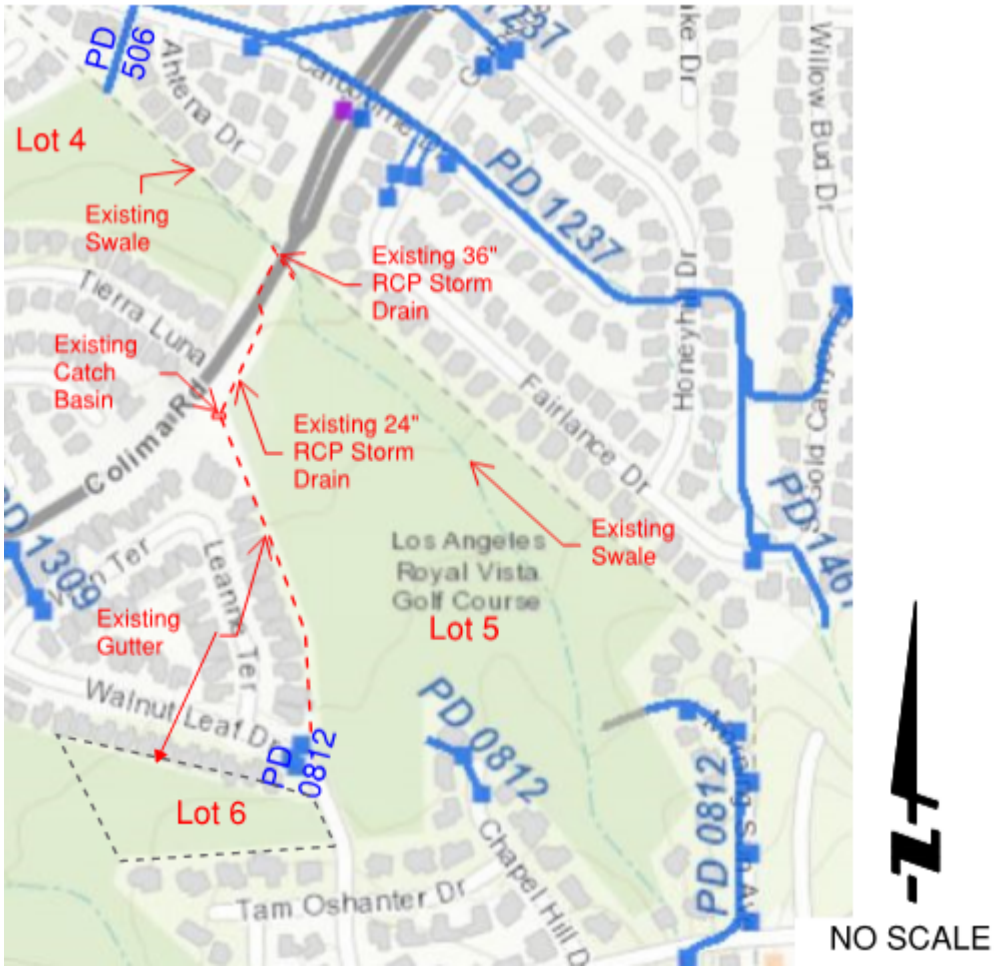


FIGURE 2.2 – Existing Drainage Facilities @ Lots 4, 5 & 6

3.0 HYDROLOGY

3.1 STORM FREQUENCY

Per Los Angeles County Department of Public Works (LACDPW) requirements, the design storm for this project is a 25-year storm event. Therefore the 25-year storm event has been hydrologically modeled for this project.

3.2 HYDROLOGIC PARAMETERS

The HydroCalc hydrology software requires input of site parameters, including percent impervious, soil type, and rainfall. The percent impervious was obtained from Appendix D of the Los Angeles County Hydrology Manual (see Appendix 2 of this report).

The following are the site-specific parameters for this project (see Appendix 2 for reference documentation):

- 50-year rainfall (used for HydroCalc input for 25-year storm event) = 6.5″
- Soil type = 002
- Percent Impervious (per Appendix D of Los Angeles County Hydrology Manual)
    - Single-Family Residential (42-percent); Duplex/Triplex/Townhomes (55-percent)
    - Golf Course; existing) (3-percent)
    - Greenbelt (Vacant) Area (2-percent)

Composite impervious percentages were calculated, and the calculations are included in Appendix 4. The results of the composite percent impervious calculations are included in the following table.

Table 3.2.1 – Proposed Composite Impervious Percentage

Lot	Acres	Percent Impervious
1	31.6	35%
2	9.5	33%
3	6.1	35%
4 (no development proposed)	5.8	3% (existing golf course)
5	21.1	27%
6 (no development proposed)	1.6	3% (existing golf course)

The Los Angeles HydroCalc software was used to determine the discharges and hydrographs, and Hydraulic Toolbox software was used to perform the flood hydrograph routing analyses within the Study Area per LA County Hydrology procedures.

3.3.1 METHODOLOGY & CRITERIA

This study was prepared using the HydroCalc computer program in conformance with the Los Angeles County Hydrology Manual. The existing and proposed condition for the various lots were evaluated, with the goal that the proposed condition flowrates do not exceed those of the existing condition for any of the drainage study areas. In addition to existing and proposed condition comparisons, the "Q-allowable" flowrates were obtained, to ensure that the proposed condition discharges would not exceed the Q-allowable (cfs per acre) for the downstream collection systems. The following are the Q-allowable values that were received from Los Angeles County staff, and the locations of the Los Angeles County drains PD 2192 and PD 506 are shown on Figure 3.1.

PD 2192 - 2.29cfs/Ac
PD 506 - 1.78cfs/Ac

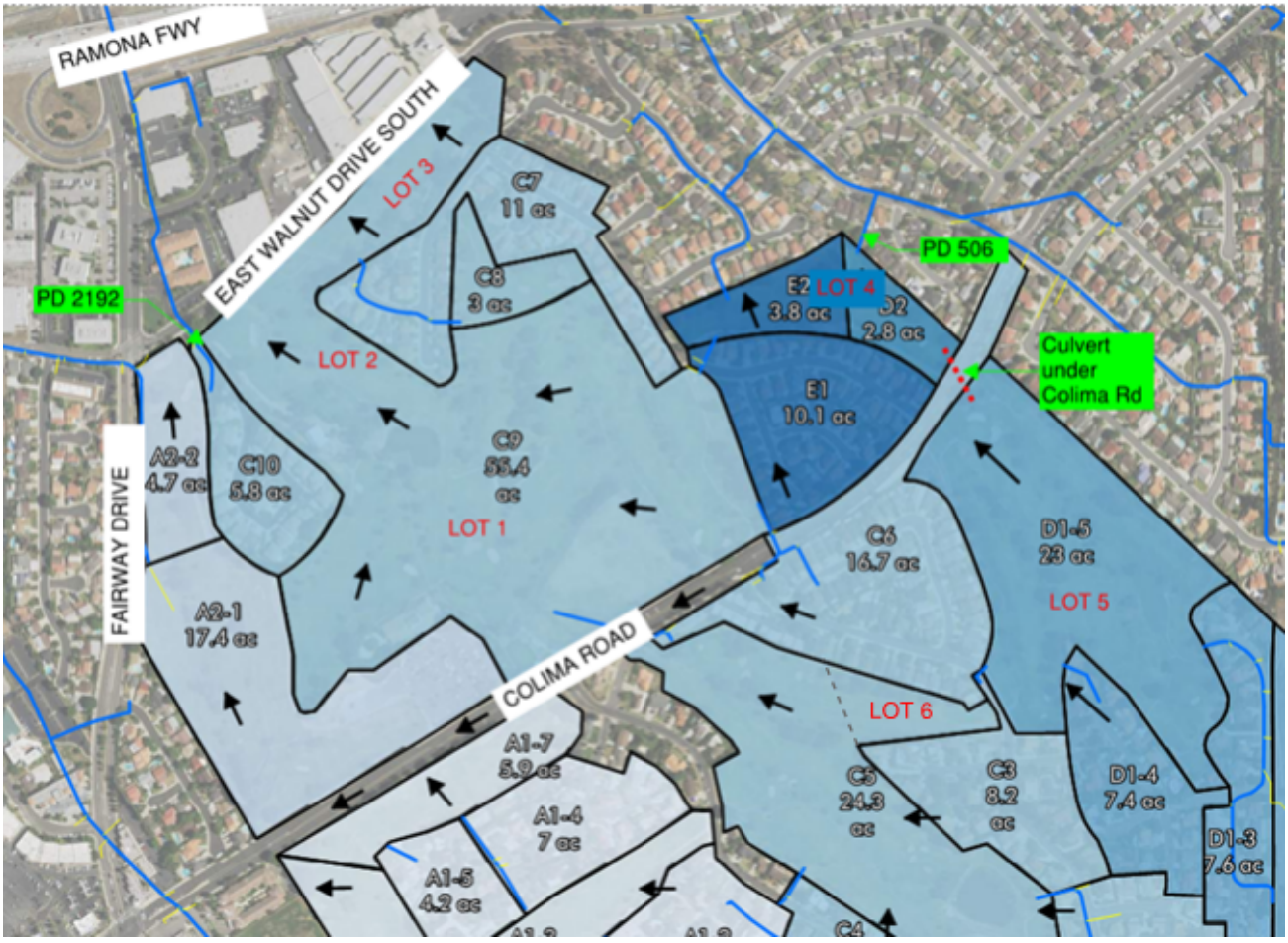


FIGURE 3.1 – Los Angeles County Storm Drain Map

3.3.2 DETENTION ANALYSES

Detention analyses were performed to ensure that the flow rates associated with the proposed development do not adversely impact the downstream facilities. Hydraulic Toolbox, developed by Federal Highway Association (FHWA) was used to route the proposed condition HydroCalc hydrographs through proposed underground tank systems with outflows that will be discharging to the existing downstream systems. The goal for each analysis was to not exceed either the Q(allowable) provided by Los Angeles County, or existing condition, whichever is lower.

The underground systems were designed as rectangular tanks, with orifice/pipe outflows to connect to the existing downstream storm drain. The Hydraulic Toolbox detention analyses are included in Appendix 7 of this report.

The stage-storage calculations are based on the rectangular area for the tank system, along with the depth, and these values are imbedded in the Hydraulic Toolbox program. The stage-discharge calculations were performed using Flowmaster orifice calculations for the associated depths, and Flowmaster normal depth calculations for the lower depths, below orifice conditions. The orifice calculations were based on Equation 4-10 of King's Handbook, Q = CAsqrt(2gh), with coefficient C varying from 0.62 to 0.83 from Table 4-11 of King's Handbook. The Flowmaster stage-discharge calculations are included in Appendix 12 of this report.

3.4 EXISTING CONDITION HYDROLOGY

Hydrologic analyses were prepared for the existing conditions and analyzed for a 25-year storm event. The site is sub-divided into the individual lots (1 – 6), except for lots 1 and 2, which are also combined due to their proximity. Development is proposed for Lots 1, 2, 3, and 5 only, no development will occur for Lots 4 and 6. The existing condition parameters and results for Lots 1 – 3 and 5 are included in the following tables.

Table 3.4.1 – Existing Hydrology – Lot 1

Existing Lot 1	Totals for Existing Lot 1	Existing Site CFS per acre	Existing Lot 1 to Tierra Luna (not to PD 2192)	Existing Lot 1 to Tarta Ct, then to PD 2192	Existing Lot 1 direct to Walnut Drive (PD 2192)	TOTAL EXISTING/ALLOWABLE LOT 1 TO PD 2192
Site Acreage	31.6 acres	2.01 cfs/ac	8.7 acres	2.2 acres	20.7 acres	2.2 + 20.7 = 22.9 acres
Q25	63.6 cfs	(Qallowable = 2.29 cfs/ac)	17.6 cfs	4.4 cfs	41.6 cfs	4.4 + 41.6 = 46.0 cfs

Table 3.4.2 – Existing Hydrology – Lot 2

Existing Lot 2	Totals for Existing Lot 2	Existing Site CFS per acre	Existing Lot 2 direct to Walnut Drive (PD 2192)	TOTAL EXISTING/ALLOWABLE LOT 2 TO PD 2192
Site Acreage	9.5 acres	2.24 cfs/ac	9.5 acres	9.5 acres
Q25	21.3 cfs	(Qallowable = 2.29 cfs/ac)	21.3 cfs	21.3 cfs

Table 3.4.3 – Existing Hydrology – Lots 1 & 2 to PD 2192 in Walnut Drive

Existing Lots 1 & 2	Totals for Existing Lot 1 to PD 2192	Totals for Existing Lot 2 to PD 2192	TOTAL EXISTING ALLOWABLE LOTS 1 & 2 TO PD 2192
Site Acreage	22.9 acres	9.5 acres	32.4 acres
Q25	46.0 cfs	21.3 cfs	67.3 cfs

Table 3.4.4 – Existing Hydrology – Lot 3

Existing Lot 3	Total Onsite Lot 3	Total Offsite Lot 3 (from slopes)	Existing CFS per acre	Existing to east (not to PD 2192)	Existing to PD 2192	TOTAL EXISTING/ALLOWABLE LOT 3 TO PD 2192
Site Acreage	6.1 acres	0.8 acres	2.23 cfs/ac	0.9 acres	6.0 acres	6.0 acres
Q25	13.5 cfs	1.6 cfs	(Qallowable = 2.29 cfs/ac)	1.8 cfs	13.5 cfs	13.5 cfs

Table 3.4.5 – Existing Hydrology – Lot 5

Existing Lot 5	Total Onsite Lot 5	Total Offsite Lot 5 (from slopes)	Total Onsite & Offsite Lot 5	Existing CFS per acre	QALLOWABLE LOT 5 TO PD 506
Site Acreage	21.1 acres	1.0 acres	22.1 acres	1.92 cfs/ac use Qallowable	22.1 acres
Q25	40.6 cfs	1.9 cfs	42.5 cfs	(Qallowable = 1.78 cfs/ac) = 39.3 cfs	39.3 cfs

The existing condition hydrology calculations are included in Appendix 5 of this report. The existing condition hydrology maps are included in Appendix 9.

3.5 PROPOSED CONDITION HYDROLOGY

The proposed condition will consist of residential developments within lots 1 – 3 and 5. As discussed previously, there will be no proposed development for lots 4and 6; they will remain as existing condition. Hydrologic analyses were prepared for the proposed conditions and analyzed for a 25-year storm event. Lots 1 and 2 are combined, due to their proximity, and combined drainage/detention system. Lots 3 and 5 are evaluated separately. The proposed condition parameters and detention analysis results for lots 1, 2, 3, and 5 are presented in the following tables.

Table 3.5.1 – Proposed Hydrology – Lot 1

Proposed Lot 1	Total Proposed Lot 1	Proposed Lot 1 to Tarta Ct (then to PD 2192) (not to detention)	Proposed Lot 1 to Tierra Luna (not to PD 2192) (not to detention)	Proposed Subarea 16C of Lot 1 to public storm drain extension, then to PD 2192 (not to detention)	Proposed Lot 1 to detention, then to PD 2192	Proposed Lot 1 to PD 2192 (not to detention system)
Site Acreage	31.6 acres	1.3 acres	2.5 acres	0.3 acres	27.5 acres	1.3 + 0.3 = 1.6 acres
Q25	61.9 cfs	2.5 cfs	4.9 cfs	0.6 cfs	53.9 cfs	2.5 + 0.6 = 3.1 cfs

Table 3.5.2 – Proposed Hydrology – Lot 2

Proposed Lot 2	Total Proposed Lot 2 (all area goes to PD 2192)	Proposed Subarea 1G to Walnut Dr (then to PD 2192) (not to detention)	Proposed Lot 2 street dedication to Walnut Dr (then to PD 2192) (not to detention)	Proposed Lot 2 to detention (then to PD 2192)	Proposed Lot 2 to PD 2192 (not to detention system)
Site Acreage	9.5 acres	0.3 acres	0.1 acres	9.1 acres	0.3 + 0.1 = 0.4 acres
Q25	21.5 cfs	0.7 cfs	0.2 cfs	20.6 cfs	0.7 + 0.2 = 0.9 cfs

Table 3.5.3 – Proposed Detention for Lots 1 & 2

Proposed Lots 1 & 2	Total Allowable to PD 2192	Proposed Lots 1 & 2 not to detention system (to PD 2192)	Proposed Lots 1 & 2 to detention system (then to PD 2192)	Proposed allowable from Lots 1 & 2 detention system to PD 2192	Proposed Lots 1 & 2 combined detention system volume
Site Acreage	22.9 + 9.5 = 32.4 acres	1.6 + 0.4 = 2.0 acres	27.5 + 9.1 = 36.6 acres	36.6 acres	17,405 cubic feet
Q25	46.0 + 21.3 = 67.3 cfs	3.1 + 0.9 = 4.0 cfs	53.9 + 20.6 = 74.5 cfs (74.9 per Hydrocalc Calculation)	67.3 – 4.0 = 63.3 cfs (62.9 per Detention Calculation)	

Table 3.5.4 – Proposed Hydrology and Detention for Lot 3

Proposed Lot 3	Total Allowable to PD 2192	Total Proposed Onsite (6.1 ac) & Offsite (0.8 ac) from slopes)	Proposed Lot 3 street dedication to Walnut Dr (then to PD 2192) (not to detention	Proposed Lot 3 to detention, (then to PD 2192)	Proposed allowable from Lot 3 detention system to PD 2192	Proposed Lot 3 detention system volume
Site Acreage	6.0 acres	6.9 acres	0.3 acre	6.6 acres	6.6 acres	1,803 cubic feet
Q25	13.5 cfs	15.4 cfs	0.7 cfs	14.2 cfs	13.5 – 0.7 = 12.8 cfs	

Table 3.5.5 – Proposed Hydrology and Detention for Lot 5

Proposed Lot 5	Totals for Proposed Lot 5	Allowable to PD 506 (Qallowable = 1.78 cfs/acre)	Lot 5 to catch basin & existing 24" storm drain (not to detention) then to PD 506	Lot 5 to detention tank	Proposed allowable from Lot 5 detention system to 36" culvert in Colima, then to PD 506	Proposed Lot 5 detention system volume
Site Acreage	21.1 (onsite) + 1.0 (offsite slopes) = 22.1 acres	22.1 acres	0.5 acre	21.6 acres	21.6 acres	10,350 cubic feet
Q25	47.3 cfs	39.3 cfs	1.1 cfs	46.2 cfs	39.3 – 1.1 = 38.2 cfs	

The proposed condition hydrology calculations are included in Appendix 6 of this report. The proposed condition hydrology maps are included in Appendix 10.

4.0 STORM DRAIN & DETENTION FACILITIES

The proposed onsite storm drain facilities will consist of a combined low flow water quality and peak flow conveyance system. The low-flow water quality systems will intercept the low flows and provide water quality treatment to meet the LA County LID Ordinance (see separate LID report.) The peak flow storm drain storm drain systems will provide peak flow reduction via detention systems, in order control flows to meet the capacity requirements of the existing LACFCD systems.

As shown in the proposed condition hydrology maps, detention systems, which will be maintained by HOA, are proposed for Lots 1 & 2 (combined), 3, and 5. Catch Basin inlets will intercept storm flows and convey the flows through a network of storm drainpipes into each respective detention system. The detention systems will function to provide peak flow detention to meet the downstream constraints.

There is an existing 36" culvert in Colima Drive. This facility is private, as it was not identified as an LACFCD storm drain. This culvert currently accepts stormwater drainage from Lot 5 along with drainage from LACFCD facilities presented in this report, which are tributary to Lot 5. The following are the Q25 discharges that are tributary to the existing 36" culvert in Colima Road (s = 4.8%), along with the hydraulic capacity of the existing culvert. The culvert exhibit verifying the existing slope is included in this report as Appendix 13. The analyses show that the existing culvert has adequate hydraulic capacity to convey the tributary stormwater flows.

- Existing 36" Culvert in Colima Road (Lot 5)
    - Offsite Drainage (Total Q25 = 104.1 cfs):
        - PD 0812 Line "A" in Walnut Leaf Drive: Q25 = 16.0 cfs (drains to concrete gutter along west of Lot 5, then to existing catch basin, then to 36" culvert
        - PD 0812 Line "H" in Morning Sun Avenue: Q25 = 70.5 cfs
        - PD 0812 Line "E" in Chapel Hill Drive: Q25 = 17.6 cfs
    - Proposed Lot 5 Drainage (Q25 = 1.1 + 38.2 (from detention tank) =) 39.3 cfs
    - Total Q25 to Culvert: 104.1 + 39.3 = 143.4 cfs
    - Capacity of Existing Culvert: 146.1 cfs

The alignment, location, and estimated sizes of the proposed storm drain facilities are provided on the proposed condition hydrology and concept storm drain maps (Appendix 10).

With implementation of the proposed storm drain and detention systems as presented within this report, the existing facilities will continue to function as they do currently without adverse impact to the downstream storm drain reaches.

The proposed drainage elements will include onsite gutters within Lot 1 and Lot 6 to ensure that the onsite drainage is conveyed to the Los Angeles County public storm drain systems without encroaching onto adjacent properties. Therefore, no cross-lot drainage from onsite to neighboring properties will occur. The locations of the proposed gutters are shown on the Proposed Condition Hydrology and Concept Storm Drain Maps.

5.0 PROPOSED PRIVATE DRAINS TO CONNECT TO EXISTING

In addition to the proposed private onsite storm drain and detention systems, the project will also include connections to existing Los Angeles County storm drain systems that would be impacted by the proposed development. These impacts will affect Lots 1, 2, 3, and 5. Currently, the LACFCD public storm drain systems discharge onto the golf course lots, and the flows are conveyed through the respective lots before discharging to downstream LACFCD systems. The project proposes to provide connections at the existing discharge locations of the existing storm drain facilities, and installations of new private storm drain systems through the lots, before connecting to the downstream systems. The proposed private drains will not include any connections from the site storm drain (except for 0.3 acre of Lot 1); the new private drain extensions, and onsite private drainage systems will remain as separate systems.

Extensions of existing transfer storm drain lines will not be permitted by Los Angeles County Public Works. A new private drain plan will be required to manage all the proposed connections and new storm drain systems to convey existing offsite drainage through the various lots. The new drains will be combined on the plans as a proposed private drain, for purposes of Los Angeles County transfer. Additionally, for pipe lengths greater than 200 lineal feet, 24"-diameter minimum pipe sizes shall be used. Descriptions of each proposed storm drain system is described in the following paragraphs.

Lot 1 currently accepts flows from culverts PD 1266 and PD 2377 in Colima Road. These public drains currently discharge to Lot 1, and the flows are conveyed through the lot. The stormwater from PD 1266 in Colima will be conveyed through the easterly boundary of Lot 1 and continue its discharge through the existing/relocated culvert PD 1266 culvert in Tierra Luna. The new private drain extension of PD 2377 from Colima Road will require construction of a new connection, along with installation of new storm drain pipe, which will be conveyed through Lots 1 and 2, and connect to a new lateral of PD 2192 in Walnut Drive. This proposed new private drain extension is shown on the hydrology map for Lots 1, 2, 3, included in Appendix 10.

Lot 3 currently accepts flows from PD 1440 in Tarta Court. The existing storm drain in Tarta Court also accepts flows from a small portion of Lot 1 drainage. PD 1440 will require a connection and installation of new private storm drain to be installed within Lot 3 to convey the storm discharges through the property. The new private storm drain will connect to a new lateral to PD 2192 in Walnut Drive.

Lot 4 currently accepts flows from the existing private 36" culvert in Colima Road into an existing concrete gutter that runs along the easterly boundary of the site. It is anticipated that this gutter will remain and continue to convey the stormwater drainage from the 36" culvert in Colima Road. In addition, this lot also accepts drainage from PD 1266 (Line B") in Tierra Luna. The drainage from the Tierra Luna culvert is currently conveyed to PD 1369 (48" culvert) at the northwest boundary and then to PD 502. As discussed previously, there is no development proposed for lot 4; it will remain as existing open space.

Lot 5 currently accepts flows from three LACFCD storm drains, labeled Lines "A", "E", and "H" of PD 0812. Line "A" comes into the property from Walnut Leaf Drive. Flows from Line "A" discharge into a concrete gutter, where it is then conveyed along the westerly boundary of the site into a catch basin, then to a 24" storm drain, then to the existing 36" culvert in Colima Road. Line "A" will not require an extension; the flows will continue to be conveyed in the existing gutter. Line "E," an 18" from

Chapel Hill Drive, and Line "H", a 33" from Morning Sun Avenue will each require proposed connections and installations of new private storm drain within the property; to ultimately connect to the existing 36" culvert in Colima Road. Los Angeles County Public Works stated that they would require the existing 36" culvert in Colima Road to be transferred to a LA County Drain. The proposed private storm drain extensions are depicted on the hydrology map for Lot 5, included in Appendix 10.

6.0 RESULTS AND CONCLUSIONS

As discussed in this report, the project will include proposed detention systems to provide peak flow reductions at the various project lots. Additionally, the project will also include installation of new private storm drain extensions within the lots, which will provide conveyance of the stormwater flows that currently discharge onto the golf course and are conveyed via sheet-flow to the downstream collection systems.

The analyses presented in the report show that the recommended detention systems and installations of private storm drain facilities will allow the conveyance and control of stormwater discharges. Implementation of the recommended mitigation measures will ensure that the proposed development of Lots 1-3 and 5 of the Royal Vista Residential Project will not adversely affect the surrounding areas. As discussed in this report, Lots 4 and 6 will remain as existing open space, and will not be developed. The back-up calculations, reference materials, and exhibits are included in the appendix of this report. The water quality mitigation analyses and proposed treatment BMPs are presented in the separate Low Impact Development (LID) report.

As mentioned previously, there is an existing 36" culvert in Colima Drive, which accepts stormwater from Lot 5 along with drainage from LACFCD drainage systems. This facility is private, as it was not identified as an LACFCD storm drain. The culvert has been hydraulically evaluated, and the analyses show that it has adequate hydraulic capacity to convey the tributary stormwater flows. However, LACFCD has indicated that this culvert would be required to be transferred to a public drain.

The summary tables included on the following pages present the hydrologic requirements and results, along with detention volume sizing for each of the six lots.

Table 6.1 – Lots 1 & 2 Summary

LOTS 1 & 2 **41.1 ACRES ONSITE** **Q-ALLOWABLE TO PD 2192 = 2.29 CFS/ACRE** **EXISTING LOT 1: Q25 = 63.6 CFS FOR 31.6 ACRES (2.01 CFS/ACRE)** **EXISTING LOT 2: Q25 = 21.3 CFS FOR 9.5 ACRES (2.24 CFS/ACRE)** **(EXISTING CONDITION CONTROLS)**			
TRIBUTARY DIRECTLY PD 2192 IN WALNUT DRIVE	**TRIBUTARY TO PD 1266 IN TIERRA LUNA (not to PD 2192 in Walnut Drive)**	**TRIBUTARY TO PD 1440 IN TARTA COURT (then to PD 2192 in Walnut Drive)**	**TOTAL TO PD 2192 (DIRECT AND INDIRECT)**
EXISTING CONDITION LOT 1: ONSITE 20.7 ACRES **Q25 = 41.6 CFS** **EXISTING CONDITION LOT 2:** ONSITE 9.5ACRES **Q25 = 21.3 CFS** **ΣQ25 = 46.0 + 21.3 = 62.9 CFS**	**EXISTING CONDITION LOT 1** 8.7 ACRES **Q25 = 17.6 CFS** OFFSITE PD1266 **Q25 = 43.3 CFS** **ΣQ25 = 43.3+17.6 = 60.9 CFS**	**EXISTING CONDITION LOT 1** 2.2 ACRES **Q25 = 4.4 CFS**	**EXISTING CONDITION** 32.4 ACRES **ΣQ25 = 67.3 CFS** (TOTAL PROPOSED CONDITION TO PD 2192 NOT TO EXCEED 67.3 CFS)
PROPOSED CONDITION LOT 1 (16C) AT WEST: 0.3 ACRES **Q25 = 0.6 CFS** **PROPOSED CONDITION** LOT 2 (1G) AT NORTH: 0.3 ACRES **Q25 = 0.7 CFS** **PROPOSED CONDITION** LOT 2 STREET DEDICATION AT NORTH: 0.1 ACRES **Q25 = 0.2 CFS**	**PROPOSED CONDITION LOT 1D** 2.5 ACRES **Q25 = 4.9 CFS** OFFSITE PD1266 **Q25 = 43.3 CFS** **ΣQ25 = 48.2 CFS**	**PROPOSED CONDITION LOT 1E** 1.3 ACRES **Q25 = 2.5 CFS**	**PROPOSED CONDITION NON-DETENTION/DIRECT:** 0.3 + 0.3 + 0.1 + 1.3 = 2.0 ACRES **Q25 = 4.0 CFS** **PROPOSED CONDITION DETENTION:** Q INFLOW = 74.9 CFS FOR 36.6 ACRES **Q OUTFLOW = 62.9 CFS** VOLUME = 17,405 CU. FT. **TOTAL PROPOSED ONSITE FLOWS TO PD 2192 IN WALNUT** **ΣQ25 = 62.9 + 4.0 = 66.9 CFS** (NOT EXCEED 67.3 CFS)
DETENTION SYSTEM VOLUME = 17,405 CU. FT			

Table 6.2 – Lot 3 Summary

<table>
<tr><th colspan="2">LOT 3

(6.1 ACRES ONSITE; 6.0 ACRES DRAINS TO PD 2192)
Q-ALLOWABLE TO PD 2192= 2.29 CFS/ACRE
EXISTING Q25 = 15.4 CFS FOR 69 ACRES (2.24 CFS/ACRE)
EXISTING Q25 TO PD 2192 = 13.5 CFS FOR 6.0 ACRES (2.24 CFS/ACRE)
(EXISTING CONDITION CONTROLS)</th></tr>
<tr><th>TRIBUTARY TO PD 2192 IN WALNUT DRIVE</th><th>TRIBUTARY TO EAST WALNUT (NOT PD 2192)</th></tr>
<tr><td><u>EXISTING CONDITION</u>
<u>(ONSITE & OFFSITE)</u>
6.0 ACRES
ΣQ25 = 13.5 CFS

<u>OFFSITE PD 1440</u>
ΣQ25 = 23.8 CFS

<u>OVERALL, TO PD 2192</u>
OFFSITE PD 1440 + EXISTING CONDITOIN (ONSITE& OFFSITE) = 13.5 +23.8
ΣQ25 = 37.5 CFS</td><td rowspan="2"><u>EXISTING CONDITION (ONSITE & OFFSITE)</u>
0.9 ACRES
Q25 = 2.0 CFS</td></tr>
<tr><td><u>PROPOSED CONDITION</u>
6.9 ACRES (6.6 ACRES TO DET TANK; 0.3 ACRES DEDICATION; 2.14 CFS/ACRE)

Q25 TO ROADWAY = 0.7 CFS
Q25 = 14.2 CFS (INTO DET TANK)
Q25 (ALLOWED) DET TANK OUTLET = 12.8 CFS

<u>TOTAL PROPOSED Q25 TO PD 2192</u>
= 0.7 + 12.8= 13.5 CFS

<u>OFFSITE PD 1440</u>
ΣQ25 = 21.90 CFS

<u>OVERALL, TO PD 2192</u>
OFFSITE PD 1440 + PROPOSED Q25 = 13.5+21.9
ΣQ25 = 35.4 CFS</td></tr>
<tr><td>DETENTION SYSTEM
VOLUME = 1,803 CUBIC FEET</td><td><u>PROPOSED CONDITION</u>
0 ACRES
Q25 = 0 CFS</td></tr>
</table>

Table 6.3 – Lot 5 Summary

<table>
<tr><th colspan="2">LOT 5
(21.1 ACRES ONSITE; 1.0 ACRES OFFSITE FROM SLOPES; 22.1 ACRES TOTAL)
EXISTING Q25 = 42.5 CFS FOR 22.1 ACRES (1.92 CFS/ACRE)
PROPOSED Q25 = 47.4 CFS FOR 22.1 ACRES (2.14 CFS/ACRE)
USE Q-ALLOWABLE TO PD 506 = 1.78 CFS/ACRE (39.3 CFS TOTAL)</th></tr>
<tr><th>TRIBUTARY TO 36″ CULVERT IN COLIMA ROAD</th><th>TRIBUTARY TO EXISTING CATCH BASIN/24″ SD AT NORHWEST CORNER</th></tr>
<tr><td>EXISTING CONDITION

ONSITE
20.0 ACRES
Q25 = 38.5 CFS

OFFSITE
1.0 ACRES
Q25 = 1.9 CFS

OFFISTE PD 812 (33″ RCP)
Q25 = 70.5 CFS

OFFISTE PD 812 (18″ RCP)
Q25 = 17.6 CFS

OUTLET TO 36″ CULVERT (COLIMA)
EXISTING CONDTION ONSITE + EXISTING CONDITON OFFISTE + OFFSITE PD 812 (33″ RCP) + OFFSITE PD 812 (18″ RCP) = 38.5 + 1.9 +70.5 +17.6
ΣQ25 = 128.5 CFS</td><td rowspan="3">EXISTING CONDITION

ONSITE
1.1 ACRES
Q25 = 2.1 CFS

OFFSITE PD 812 (18″ RCP)
Q25 = 16.0 CFS

OUTLET TO CATCH BASIN/24″ SD
EXISTING CONDTION ONSITE + OFFSITE PD 812 (18″ RCP) = 2.1 + 16.0
ΣQ25 = 18.1 CFS

PROPOSED CONDITION

ONSITE
0.5 ACRES
Q25 = 1.1 CFS

OFFSITE PD 812 (18″ RCP)
Q25 = 16.0 CFS

OUTLET TO CATCH BASIN/24″ SD
EXISTING CONDTION ONSITE + OFFSITE PD 812 (18″ RCP) = 1.1 + 16.0
ΣQ25 = 17.1 CFS</td></tr>
<tr><td>PROPOSED CONDITION

ONSITE + OFFSITE
20.6 + 1.0 = 21.6 ACRES
Q25 = 46.2 CFS (INTO DET TANK)
Q25 (ALLOWED) DET TANK OUTLET = 38.2 CFS

OFFISTE PD 812 (33″ RCP)
Q25 = 70.5 CFS

OFFISTE PD 812 (18″ RCP)
Q25 = 17.6 CFS

OUTLET TO 36″ CULVERT (COLIMA)
EXISTING CONDTION ONSITE + EXISTING CONDITON OFFISTE + OFFSITE PD 812 (33″ RCP) + OFFSITE PD 812 (18″ RCP) = 37.8 + 70.5 +17.6
ΣQ25 = 125.9 CFS</td></tr>
<tr><td>DETENTION SYSTEM
VOLUME = 10,350 CUBIC FEET</td></tr>
</table>

Table 6.4 – PD 2192 Summary

LA COUNTY STORM DRAIN PD 2192 72" RCP	
EXISTING CONDITION AREA 1C 20.7 AC Q25=46.0 CFS OFFISTE FROM PD2377 ONTO AREA 1C Q25=87.0 CFS AREA 2A 9.0 AC Q25=21.3 CFS OFFSITE FLOW ONTO AREA 2A 10.2 AC Q25=26.1 CFS AREA 3A 5.4 AC Q25=12.0 CFS OFFSITE FLOW ONTO AREA 3A 0.7 AC Q25=1.6 CFS OFFSITE FROM PD 1440 ONTO AREA 3A Q25=23.8 CFS	PROPOSED CONDITION OFFISTE FROM PD2377 TO PROPOSED PUBLIC STORM DRAIN Q25=87.0 CFS AREA 16 C TO PROPOSED PUBLIC STORM DRAIN 0.3 AC Q25=0.6 CFS OFFSITE AREA 1J TO PROPOSED PUBLIC STORM DRAIN 10.2 AC Q25=26.1 CFS AREA 1C & AREA 2 27.5 AC & 9.5 AC ΣQ25 = 47.9 + 26.5= 74.4 CFS (INTO DET TANK) **Q25 (ALLOWED) DET TANK OUTLET = 63.3 CFS** OFFISTE FROM PD1440 TO PROPOSED PUBLIC STORM DRAIN Q25=21.9 CFS AREA 3A & 3B 2.6 AC & 4.3 AC ΣQ25 = 5.6 + 8.5 = 14.1 CFS (INTO DET TANK) **Q25 (ALLOWED) DET TANK OUTLET = 12.7 CFS** ROAD Q25=0.7 CFS AREA 2G 0.3 AC Q25=0.7 CFS
OVERALL **ΣQ25 = 213.4 CFS**	OVERALL **ΣQ25 = 213.0 CFS**

The following summary table presents the required public storm drain extensions that will be required as part of the proposed development. The preliminary hydraulics analyses are included in Appendix 11.

Table 6.5 – Proposed LACFCD Storm Drain Extensions

(Note: A new PD will be required for all extensions)

LACFCD FACILITY NO.	AFFECTED LOTS	STORM DRAIN DIAMETER & MATERIAL	Q25	UPSTREAM CONNECTION	DOWNSTREAM CONNECTION	PROPOSED LENGTH & SLOPE
PD 2377 (LINE "A")	1 & 2	42" RCP	87.0 CFS + 26.1 CFS + 0.6 CFS (westerly edge of Lot 1) = 113.7 CFS	COLIMA RD	WALNUT DR LATERAL	2,100 FEET @ 3%
PD 1266 (LINE "A")	1	30" RCP	48.2 CFS	COLIMA RD	TIERRA LUNA	923 FEET @ 3%
PD 1440 (LINE "A")	3	24" RCP	21.9 CFS	TARTA CT	WALNUT DR	550 FEET @ 3%
PD 2192 (NEW LATERAL IN WALNUT DRIVE)	1, 2, 3	66" RCP	(87.0 + 21.9 + 12.7 + 0.7 63.3 +26.1 +0.7) = 213.0 CFS	WALNUT DR	WALNUT DR (PROPOSED LATERAL)	280 FEET @ 0.5%
PD 0812 (LINE "H")	5	33" RCP	(70.5 + 17.6 =) 88.1 CFS	MORNING SUN AVE	EXISTING 36" CULVERT IN COLIMA	1,540 FEET @ 3%
PD 0812 (LINE "E")	5	24" RCP	17.6 CFS	CHAPEL HILL DR	EXTENSION OF LINE "H"	903 FEET @ 3%

APPENDICES

Appendix 1

Royal Vista Residential Project Site Plan

NTS

Project Data

PA-1

Gross Acreage:	+/-31.61 Acres
Site Area:	+/-24.42 Acres
SFD (5,000sf min):	116 Units
Duplex:	34 Units
Triplex:	18 Units
Open Space:	+/-7.18 Acres

PA-2

Gross Acreage:	+/-9.54 Acres
Site Area:	+/-6.36 Acres
SFD (5,000sf min):	32 Units
Open Space:	+/-3.19 Acres

PA-3

Gross Acreage:	+/-6.00 Acres
Site Area:	+/-4.22 Acres
Townhomes:	72 Units
Open Space:	+/-1.78 Acres

PA-4

Open Space:	+/-5.81 Acres

PA-5

Gross Acreage:	+/-21.09 Acres
Site Area:	+/-12.64 Acres
SFD (5,000sf min):	52 Units
Duplex:	24 Units
Triplex:	12 Units
Open Space:	+/-8.45 Acres

PA-6

Open Space:	+/-1.59 Acres

TOTAL RESIDENTIAL UNITS: **360 UNITS**

TOTAL AFFORDABLE UNITS: **82 UNITS** *(22%)*

TOTAL OPEN SPACE: **+/-28.00 ACRES**

TOTAL ACREAGE: **+/-75.64 ACRES**

- Recreational Trail
- Trail Activity Areas
  - Exercise Equipment
  - Picnic Table / Seating

ROYAL VISTA RESIDENTIAL & PARKS PROJECT

Conceptual Site Plan

2-23-23

Appendix 2

Los Angeles County Reference Material

Susan Williams

To: Alex Mikhailpoor
Subject: RE: Q_Allowable Request - Rowland Heights

From: Alex Mikhailpoor <AMikhailpoor@dpw.lacounty.gov>
Sent: Thursday, January 28, 2021 7:24 AM
To: Evan Cochran <ECochran@fuscoe.com>; Vilong Truong <vitruong@dpw.lacounty.gov>
Cc: Andrew Willrodt <awillrodt@fuscoe.com>; Miguel Cabanas <MCabanas@fuscoe.com>
Subject: Re: Q_Allowable Request - Rowland Heights

Evan,

Good morning, actually I went ahead and gathered the following QAllowables for the two lines.

PD 2192 - 2.29cfs/Ac
PD 506 - 1.78cfs/Ac

I do not think a meeting is needed any longer. Please let me know if you need anything else, thanks!

Alex Mikhailpoor, P.E.

Civil Engineer Assistant

Los Angeles County Public Works

(626) 458-4921

From: Evan Cochran <ECochran@fuscoe.com>
Sent: Wednesday, January 27, 2021 5:15 PM
To: Alex Mikhailpoor <AMikhailpoor@dpw.lacounty.gov>; Vilong Truong <vitruong@dpw.lacounty.gov>
Cc: Andrew Willrodt <awillrodt@fuscoe.com>; Miguel Cabanas <MCabanas@fuscoe.com>
Subject: RE: Q_Allowable Request - Rowland Heights

CAUTION: External Email. Proceed Responsibly.

Hi Alex,

I'm available tomorrow until 3 pm. Does 1 pm work for you?

Best,

APPENDIX D

Proportion Impervious Data

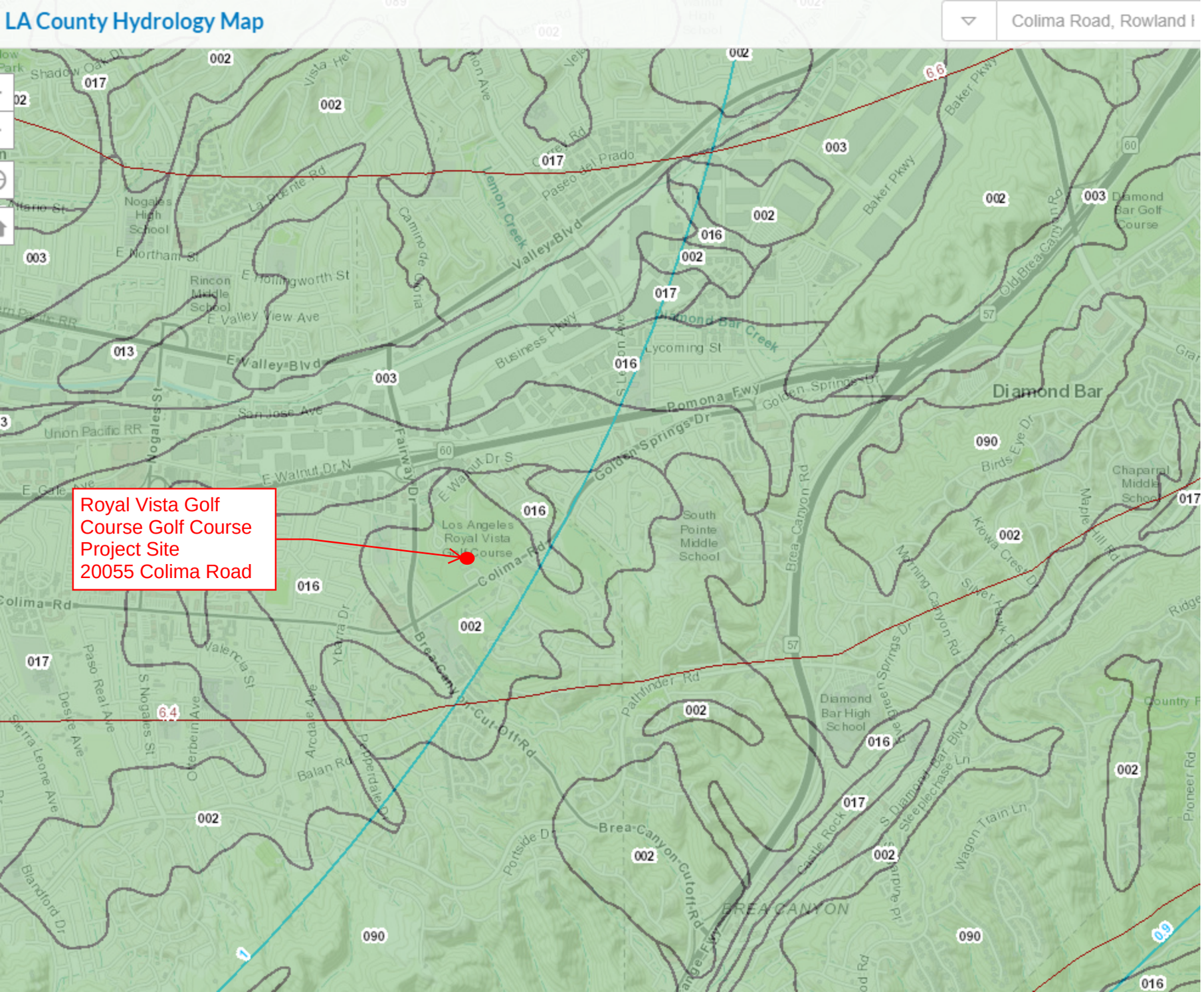
Proportion Impervious Data

Code	Land Use Description	% Impervious
1111	High-Density Single Family Residential	42
1112	Low-Density Single Family Residential	21
1121	Mixed Multi-Family Residential	74
1122	Duplexes, Triplexes and 2-or 3-Unit Condominiums and Townhouses	55
1123	Low-Rise Apartments, Condominiums, and Townhouses	86
1124	Medium-Rise Apartments and Condominiums	86
1125	High-Rise Apartments and Condominiums	90
1131	Trailer Parks and Mobile Home Courts, High-Density	91
1132	Mobile Home Courts and Subdivisions, Low-Density	42
1140	Mixed Residential	59
1151	Rural Residential, High-Density	15
1152	Rural Residential, Low-Density	10
1211	Low- and Medium-Rise Major Office Use	91
1212	High-Rise Major Office Use	91
1213	Skyscrapers	91
1221	Regional Shopping Center	95
1222	Retail Centers (Non-Strip With Contiguous Interconnected Off-Street	96
1223	Modern Strip Development	96
1224	Older Strip Development	97
1231	Commercial Storage	90
1232	Commercial Recreation	90
1233	Hotels and Motels	96
1234	Attended Pay Public Parking Facilities	91
1241	Government Offices	91
1242	Police and Sheriff Stations	91
1243	Fire Stations	91
1244	Major Medical Health Care Facilities	74
1245	Religious Facilities	82
1246	Other Public Facilities	91
1247	Non-Attended Public Parking Facilities	91
1251	Correctional Facilities	91
1252	Special Care Facilities	74
1253	Other Special Use Facilities	86
1261	Pre-Schools/Day Care Centers	68
1262	Elementary Schools	82
1263	Junior or Intermediate High Schools	82
1264	Senior High Schools	82
1265	Colleges and Universities	47
1266	Trade Schools and Professional Training Facilities	91
1271	Base (Built-up Area)	65
1271.01	Base High-Density Single Family Residential	42
1271.02	Base Duplexes, Triplexes and 2-or 3-Unit Condominiums and T	55

Code	Land Use Description	% Impervious
1271.03	Base Government Offices	91
1271.04	Base Fire Stations	91
1271.05	Base Non-Attended Public Parking Facilities	91
1271.06	Base Air Field	45
1271.07	Base Petroleum Refining and Processing	91
1271.08	Base Mineral Extraction - Oil and Gas	10
1271.09	Base Harbor Facilities	91
1271.10	Base Navigation Aids	47
1271.11	Base Developed Local Parks and Recreation	10
1271.12	Base Vacant Undifferentiated	1
1272	Vacant Area	2
1273	Air Field	45
1274	Former Base (Built-up Area)	65
1275	Former Base Vacant Area	2
1276	Former Base Air Field	91
1311	Manufacturing, Assembly, and Industrial Services	91
1312	Motion Picture and Television Studio Lots	82
1313	Packing Houses and Grain Elevators	96
1314	Research and Development	91
1321	Manufacturing	91
1322	Petroleum Refining and Processing	91
1323	Open Storage	66
1324	Major Metal Processing	91
1325	Chemical Processing	91
1331	Mineral Extraction - Other Than Oil and Gas	10
1332	Mineral Extraction - Oil and Gas	10
1340	Wholesaling and Warehousing	91
1411	Airports	91
1411.01	Airstrip	10
1412	Railroads	15
1412.01	Railroads-Attended Pay Public Parking Facilities	91
1412.02	Railroads-Non-Attended Public Parking Facilities	91
1412.03	Railroads-Manufacturing, Assembly, and Industrial Services	91
1412.04	Railroads-Petroleum Refining and Processing	91
1412.05	Railroads-Open Storage	66
1412.06	Railroads-Truck Terminals	91
1413	Freeways and Major Roads	91
1414	Park-and-Ride Lots	91
1415	Bus Terminals and Yards	91
1416	Truck Terminals	91
1417	Harbor Facilities	91
1418	Navigation Aids	47
1420	Communication Facilities	82
1420.01	Communication Facilities-Antenna	2

Code	Land Use Description	% Impervious
1431	Electrical Power Facilities	47
1431.01	Electrical Power Facilities-Powerlines (Urban)	2
1431.02	Electrical Power Facilities-Powerlines (Rural)	1
1432	Solid Waste Disposal Facilities	15
1433	Liquid Waste Disposal Facilities	96
1434	Water Storage Facilities	91
1435	Natural Gas and Petroleum Facilities	91
1435.01	Natural Gas and Petroleum Facilities-Manufacturing, Assembly, and In	91
1435.02	Natural Gas and Petroleum Facilities-Petroleum Refining and Processing	91
1435.03	Natural Gas and Petroleum Facilities-Mineral Extraction – Oil and Gas	10
1435.04	Natural Gas and Petroleum Facilities-Vacant Undifferentiated	1
1436	Water Transfer Facilities	96
1437	Improved Flood Waterways and Structures	100
1440	Maintenance Yards	91
1450	Mixed Transportation	90
1460	Mixed Transportation and Utility	91
1460.01	Mixed Utility and Transportation-Improved Flood Waterways and Structures	100
1460.02	Mixed Utility and Transportation-Railroads	15
1460.03	Mixed Utility and Transportation-Freeways and Major Roads	91
1500	Mixed Commercial and Industrial	91
1600	Mixed Urban	89
1700	Under Construction (Use appropriate value)	91
1810	Golf Courses	3
1821	Developed Local Parks and Recreation	10
1822	Undeveloped Local Parks and Recreation	2
1831	Developed Regional Parks and Recreation	2
1832	Undeveloped Regional Parks and Recreation	1
1840	Cemeteries	10
1850	Wildlife Preserves and Sanctuaries	2
1850.01	Wildlife-Commercial Recreation	90
1850.02	Wildlife-Other Special Use Facilities	86
1850.03	Wildlife-Developed Local Parks and Recreation	10
1860	Specimen Gardens and Arboreta	15
1870	Beach Parks	10
1880	Other Open Space and Recreation	10
2110	Irrigated Cropland and Improved Pasture Land	2
2120	Non-Irrigated Cropland and Improved Pasture Land	2
2200	Orchards and Vineyards	2
2300	Nurseries	15
2400	Dairy, Intensive Livestock, and Associated Facilities	42
2500	Poultry Operations	62
2600	Other Agriculture	42
2700	Horse Ranches	42

Code	Land Use Description	% Impervious
3100	Vacant Undifferentiated	1
3200	Abandoned Orchards and Vineyards	2
3300	Vacant With Limited Improvements (Use appropriate value)	42
3400	Beaches (Vacant)	1
4100	Water, Undifferentiated	100
4200	Harbor Water Facilities	100
4300	Marina Water Facilities	100
4400	Water Within a Military Installation	100



Legend

Hydrology GIS

50yr Two Tenths (Rainfall)

Soils 2004

Final 85th Percentile, 24-hr Rainfall

50-year rainfall = 6.5"
85th percentile rainfall = 1"
soil type = 002

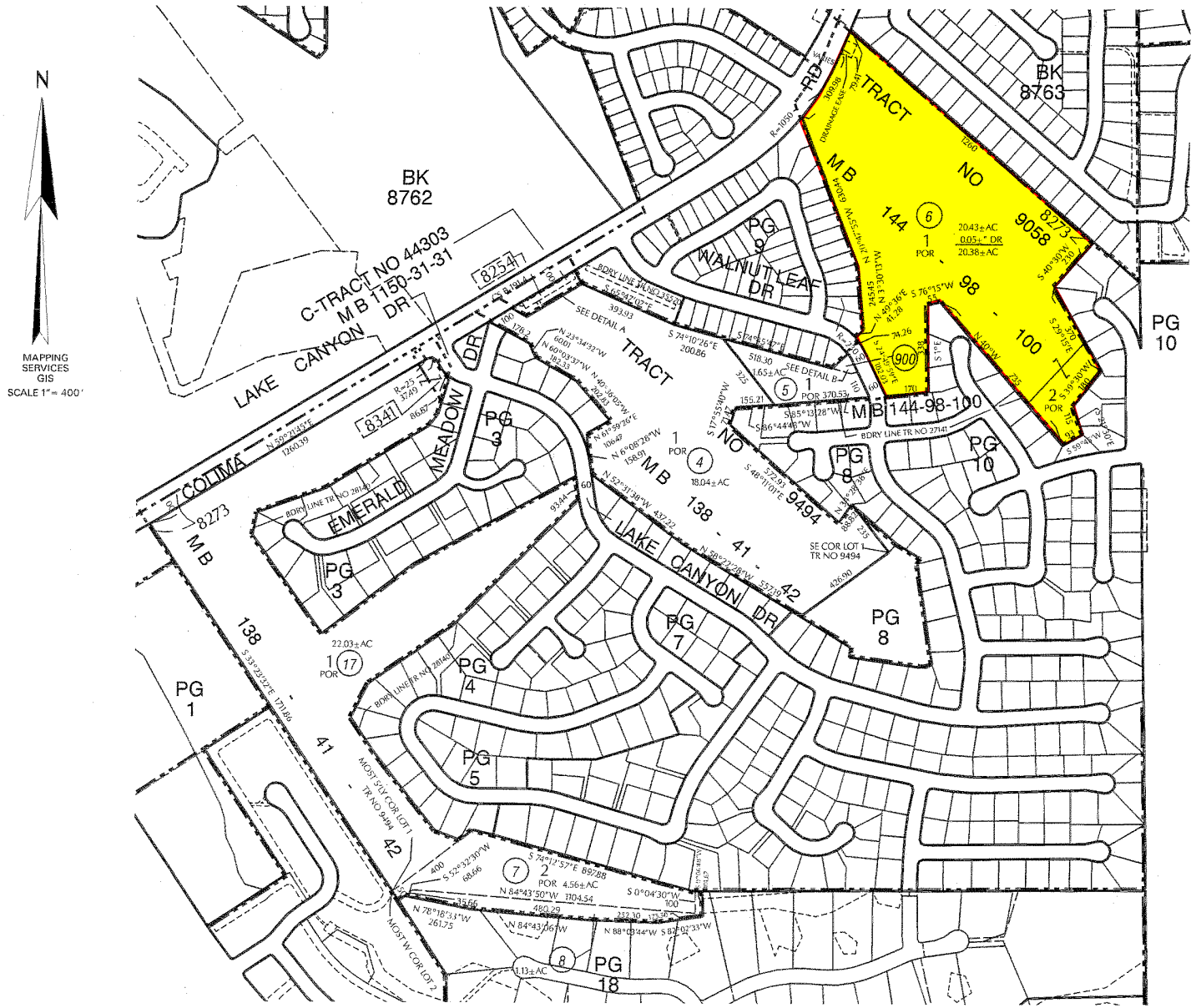
DESIRED	KNOWN 1	2	3	4	5	10	25	50	100	500
1	1.000	0.857	0.783	0.734	0.698	0.598	0.488	0.418	0.358	0.250
2	1.167	1.000	0.914	0.857	0.815	0.698	0.569	0.488	0.418	0.292
3	1.278	1.095	1.000	0.938	0.892	0.765	0.623	0.534	0.458	0.320
4	1.362	1.167	1.066	1.000	0.951	0.815	0.665	0.569	0.488	0.341
5	1.432	1.227	1.121	1.051	1.000	0.857	0.698	0.598	0.513	0.358
10	1.671	1.432	1.308	1.227	1.167	1.000	0.815	0.698	0.598	0.418
25	2.050	1.756	1.605	1.505	1.432	1.227	1.000	0.857	0.734	0.513
50	2.393	2.050	1.873	1.756	1.671	1.432	1.167	1.000	0.857	0.598
100	2.793	2.393	2.186	2.050	1.950	1.671	1.362	1.167	1.000	0.698
500	3.998	3.426	3.129	2.935	2.793	2.393	1.950	1.671	1.432	1.000

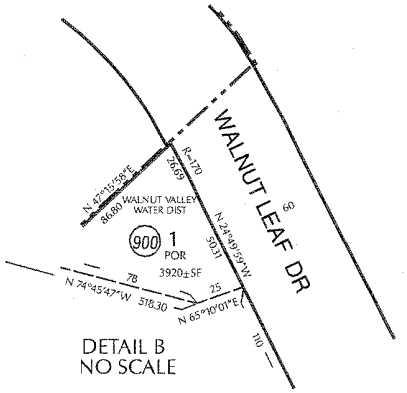
Qdesired=(desired/known)^.223

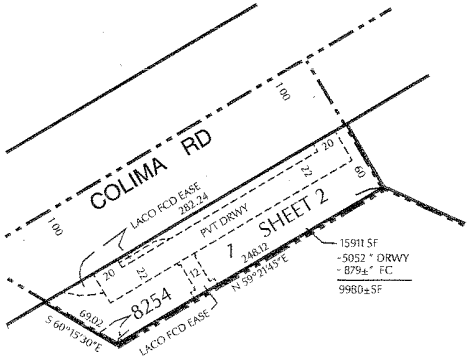
Appendix 3

Existing Storm Drain Plans & Maps

8764	2 SHEET 1	P.A. 8278-10 8764-17	TRA 8254 8273 8341	REVISED 90031907007001-11 90060695001001-11	94030104001001-28 DN120508			2002	SEARCH NO	MAP EXTENTS 4327985-4332090 4106353-4110220	OFFICE OF THE ASSESSOR COUNTY OF LOS ANGELES COPYRIGHT © 1998







8762	22 SHEET 1	P. A. 8278-16	TRA 8366 13872	REVISED 19821207 19920519	2001080902002001-28 2001101609007001-11 2001121102001001-11	2004012108 20051026				

OFFICE OF THE ASSESSOR
COUNTY OF LOS ANGELES
COPYRIGHT © 2002

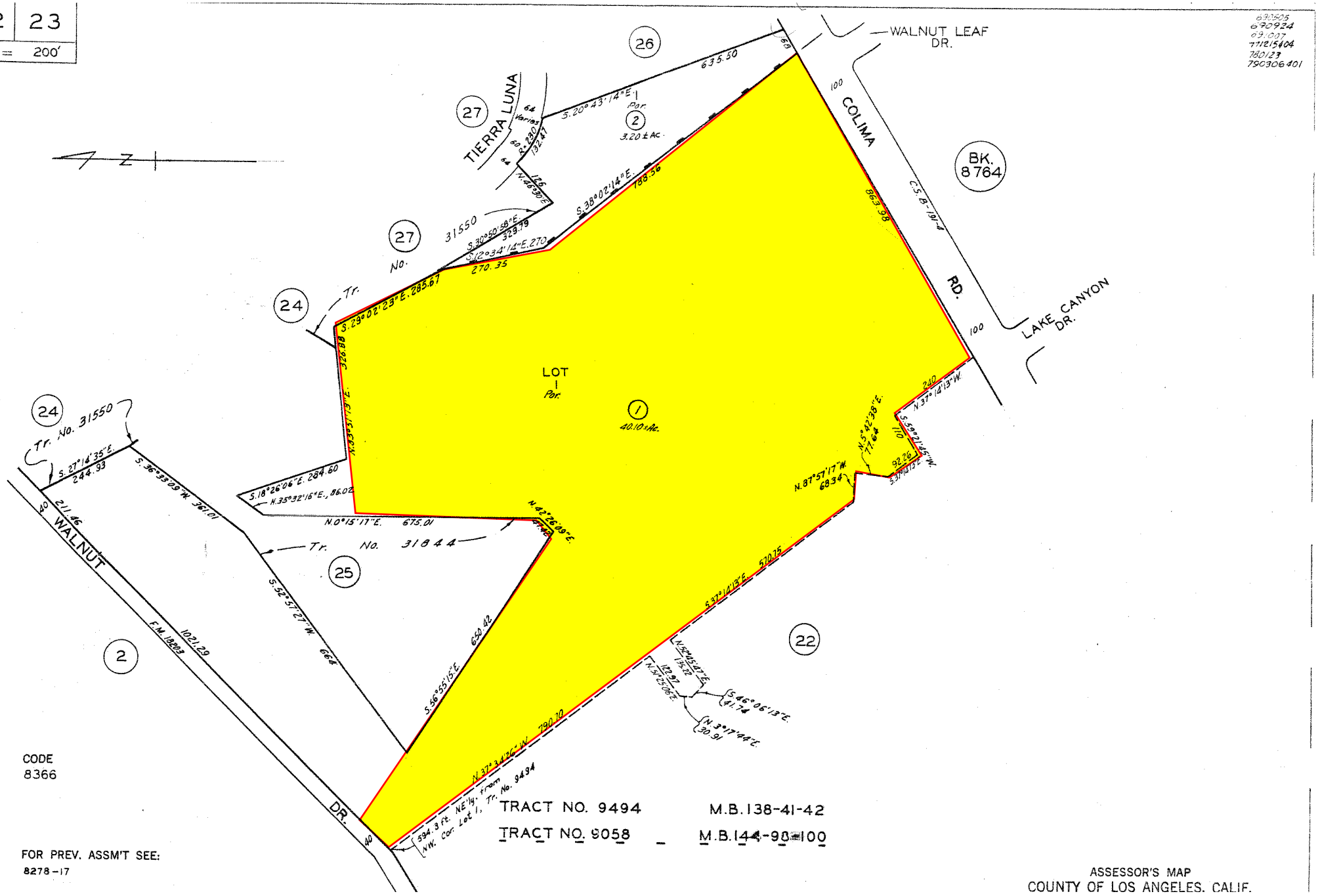
2006

MAPPING AND GIS SERVICES
SCALE 1" = 200'

DETAIL A
NO SCALE

8762 | 23

SCALE 1" = 200'



690505
690924
69:007
771215404
780123
790306401

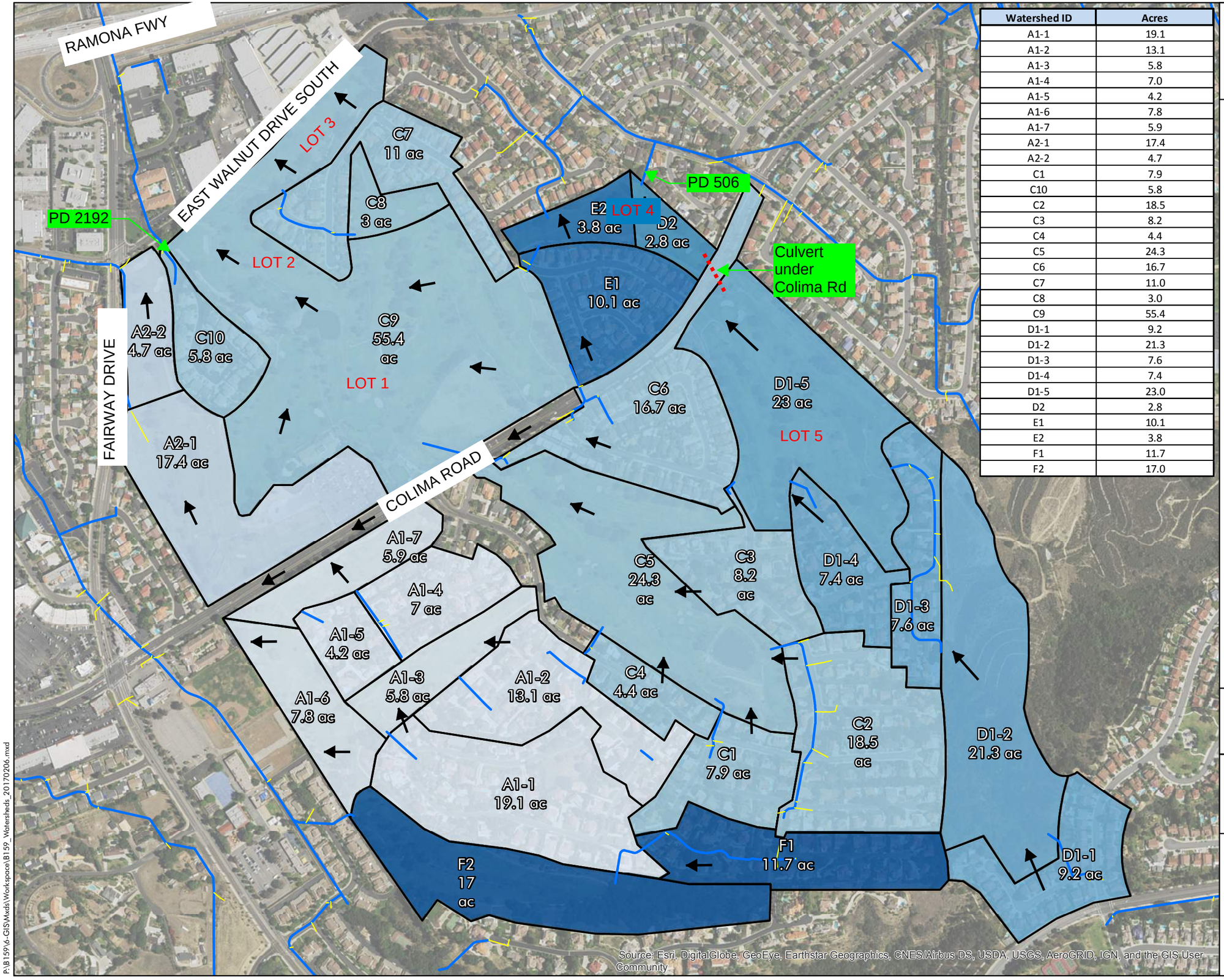
CODE
8366

FOR PREV. ASSM'T SEE:
8278-17

TRACT NO. 9494 M.B. 138-41-42

TRACT NO. 9058 M.B. 144-98-100

ASSESSOR'S MAP
COUNTY OF LOS ANGELES, CALIF.



Watershed ID	Acres
A1-1	19.1
A1-2	13.1
A1-3	5.8
A1-4	7.0
A1-5	4.2
A1-6	7.8
A1-7	5.9
A2-1	17.4
A2-2	4.7
C1	7.9
C10	5.8
C2	18.5
C3	8.2
C4	4.4
C5	24.3
C6	16.7
C7	11.0
C8	3.0
C9	55.4
D1-1	9.2
D1-2	21.3
D1-3	7.6
D1-4	7.4
D1-5	23.0
D2	2.8
E1	10.1
E2	3.8
F1	11.7
F2	17.0

ROWLAND HEIGHTS GOLF COURSE

Los Angeles, Co. CA

Legend

- Flow Direction
- LateralLine
- Gravity Main

Watersheds

- A1-1 - A1-7
- A2-1 - A2-2
- C1 - C11
- D1-1; D1-5
- D2
- E1; E2
- F1; F2

0 250 500 1,000 Feet

PACE Advanced Water Engineering

Date: 2/8/2017

Job Number B159 | Drawn By rflores

Figure XX

WATERSHEDS

P:\B159\6-GIS\Mxds\Workspace\B159_Watersheds_20170206.mxd

PLAN OF
TRACT NO. [illegible]
PRIVATE STORM DRAIN NO. [illegible]
PLAN & PROFILE

PROFILE
LINE 'B'
SCALE: HORIZ 1"=40'
VERT 1"=4'

TRACT LINE Z
Sta 7+45.51
150.00' TO VERTEX
RIGHT
GROUND
EXISTED SURFACE
S=0.02673
539.64
Sta 0+18.52 TOP OF EXIST. 30" GAS LINE
541.88 FL
ELEV 543
Sta 0+00.00
Sta 0+00.50 BEGIN 36" R.C.P.
541.90 FL
Sta 1+36.24
Sta 2+41.24 END 36" R.C.P.
548.50 FL
Sta 2+41.24
Sta 2+46.24
550.00 FL
Sta 2+46.24
INLET STRUCTURE
TRANSITION STRUCTURE No 1 (2-D235)
TRANSITION STRUCTURE LEE (2-D 85)
236'± - 26" R.C.P. - 1400 D
555
545
535
0+00
1+00
2+00
3+00

S.D. CURVE DATA
R=1500.00'
Δ=4°
L=21.99'
T=10.99'

CALBOURNE DRIVE
℄ LINE 'A'
PP 6
PP 7
PP 8
PP 9
PP 10
PP 11
Sta 0+00.00 ℄ LINE 'A'
Sta 0+00.50 ℄ LINE 'B'
30' EASEMENT TO THE COUNTY OF LOS ANGELES FOR STORM DRAIN PURPOSES
LOT 15
LOT 14
LOT 13
LOT 12
LOT 6
PAD 550
LOT 7
PAD 552
LOT 8
PAD 558
LOT 9
PAD 562
LOT 10
PAD 564
LOT 11
PAD 566
LOT 5
PAD 554
AHTENA DRIVE
℄ LINE 'B'
TRACT LINE
Sta 7+00.00
WALL
SCALE 1"=40'
EXISTING WALL TO INTERSECT AT EXISTING GROUND
3:1 SLOPE
EASEMENT TO THE COUNTY OF LOS ANGELES FOR STORM DRAIN PURPOSES
EXISTING WALL TO INTERSECT AT EXISTING GROUND
CONSTRUCT REINFORCED CONC. OR CONC. BLOCK WALL AND TUBED RAILS PER DETAILS THIS SHEET. (NOT TO BE MAINTAINED BY THE COUNTY OF LOS ANGELES)

IWALL PROFILE
SCALE:
HORIZ: 1"=40'
VERT: 1"=4'
5' chain link fence per Detail
Sta 6+20
Sta 5+08±
EXIST. GROUND
TOP OF WALL Z
TRACT LINE
Sta 2+00.00
INVERT SE=0.02703
BOTTOM OF CUTOFF WALL Z
LEVEL @ ELEV 556.2
GRID ROOFING AND WALL AS NECESSARY TO CONFORM TO EXIST. GROUND
2+00.00 FL
2+00.00
560
555
550
7+00
6+00
5+00
4+00
3+00
2+00
1+00
SECTION H-H
SECTION G-G
SECTION F-F
NOT TO BE MAINTAINED BY THE COUNTY OF LOS ANGELES

TRACT LINE
5' Chain link fence per Detail
REINFORCED CONC. WALL
VARIES FROM 0' MIN TO 2' MAX
HORIZ BARS #4 @ 18" OC
#4 BARS @ 16" OC
#4 BARS @ 8" OC.
NATURAL GROUND
4'-0"
• SECTION • H-H •
SCALE: 1"=2'-0"

ELEV 556.2
VARIES FROM 0' MIN TO 2' MAX
#4 BARS @ 8" OC.
Note: Bottom of footing shall be 2' below finished grade.
• SECTION • G-G •
SCALE: 1"=2'-0"

PAD Z
VARIES FROM 1' MIN TO 2' MAX
TOP OF WALL
#4 BARS @ 18" OC.
INVERT ELEV (See Profile)
#4 BARS AS SHOWN
REINFORCED CONCRETE OR CONCRETE BLOCK WALL AND FOOTING
• SECTION • F-F •
SCALE: 1"=2'-0"

PF513821

NO	REVISION	BY	DATE

PREPARED FOR:
ALPHA DYNAMICS INC.
1050 EAST ARTESIA
LA HABRA, CALIFORNIA

DUTCH HOLZHAUER ENGINEERING INC.
7 WEST HELLMAN AVENUE
ALHAMBRA, CALIFORNIA PH 283-9251
D H ANDERSON R.C.E. NO. 3054

COUNTY OF LOS ANGELES CALIFORNIA
JOHN A. LAMBIE COUNTY ENGINEER
DESIGN DIVISION
APPROVED BY [signature] DATE 3-4-64
BY SIZMI ENGINEER
CHECKED BY [signature] DATE 3-4-64
OFFICE OF THE COUNTY ENGINEER
DRAWN D H A
TRACED D L P 11-6-63
CHECKED D H A
SHEET 3 OF 3 SHEETS

506 SHT. 3

STORM DRAIN PLANS IN
PM No. 18564 P.D. No. 2192

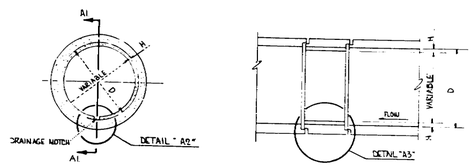
37-796 S 2

VELOCITY CONTROL RINGS

GENERAL NOTES

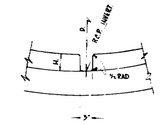
1. DRAINAGE NOTCH OF VELOCITY CONTROL PRECAST SECTIONS SHALL BE PLACED ON THE PIPE INVERT AND CENTERED ON THE PIPE CENTER LINE
2. THE LOCATION AND SPACING OF THE VELOCITY CONTROL RINGS ARE SHOWN ON THE GENERAL PLAN (SPACING - MULTIPLES OF 4')
3. CONSTRUCT PRECAST CONCRETE VELOCITY CONTROL RINGS PER SECTION 227-2 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. REINFORCING STEEL CAGES SHALL BE THE SAME AS THAT OF THE ADJACENT PIPE EXCEPT THAT AN ADDITIONAL CAGE MAY BE ADDED. THE RING DOES NOT HAVE TO BE D-LOAD TESTED
4. VALUES D AND H ARE SHOWN ON THE GENERAL PLAN. THE VALUE H SHALL BE A MULTIPLE OF ONE AND A HALF INCHES, WITH A MINIMUM OF 3 INCHES
5. THE MINIMUM INSIDE DIAMETER TO BE USED WITH THIS VELOCITY CONTROL RING SHALL BE 36 INCHES
6. A 5/8 INCH STEEL ROD 12 INCHES LONG WELDED TO THE REINFORCING MAY BE USED IN PLACE OF THE J-BOLTS OR STUD ANCHORS

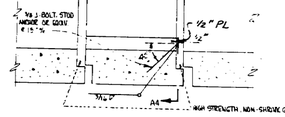
DETAILS

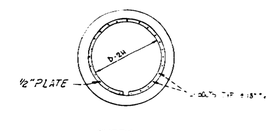


PRECAST CONCRETE PIPE SECTION

SECTION A1 - A1



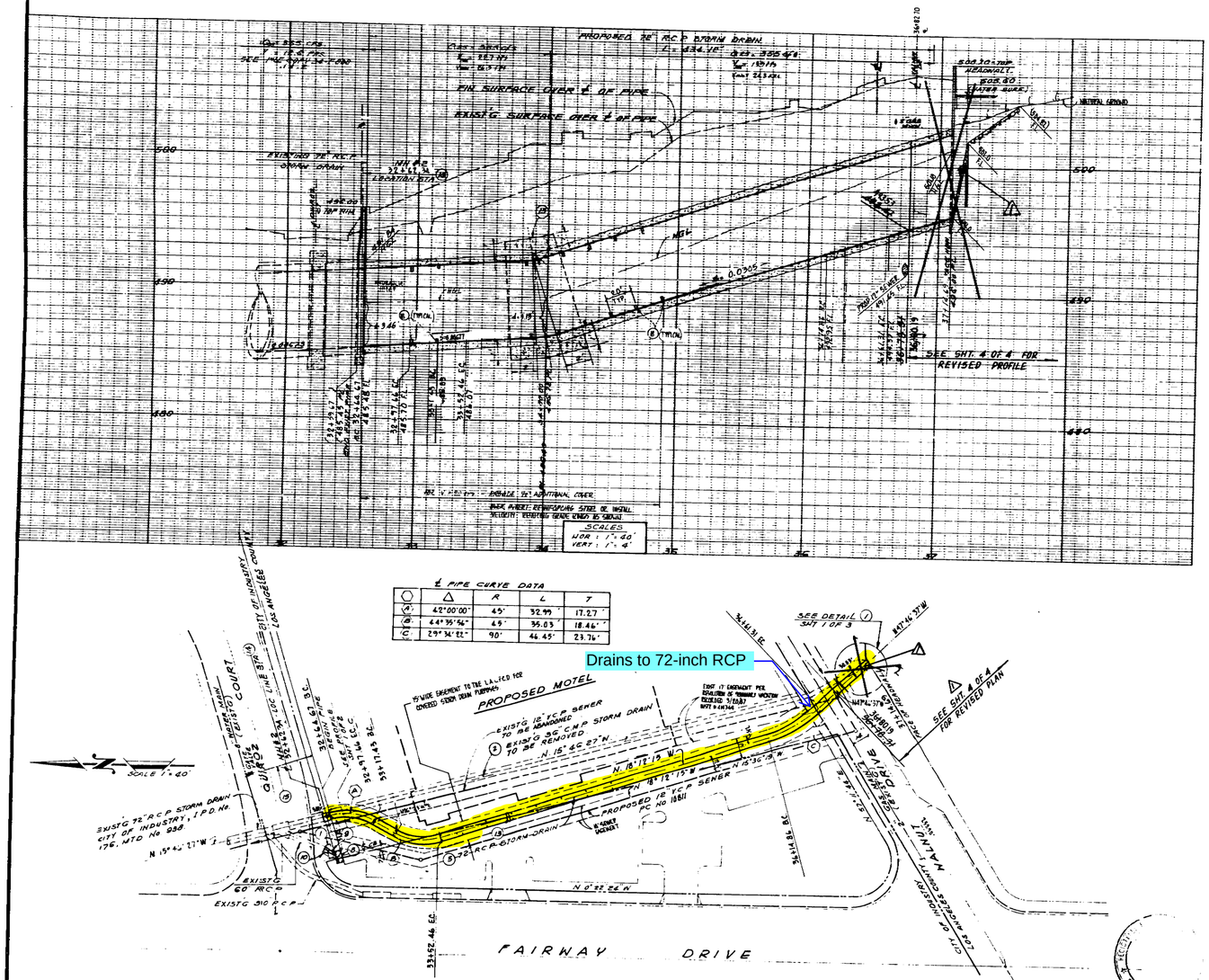




APPROVAL OF THIS PLAN BY THE LAND DEVELOPMENT DIVISION IS LIMITED TO THE DESIGN OF THE STORM DRAIN SYSTEM UNDER CONSIDERATION BY THE COUNTY OF LOS ANGELES

CONSTRUCTION NOTES:

1. REMOVE EXISTING CATCH BASIN
2. REMOVE EXISTING 36" CMP STORM DRAIN INCLUDING EXISTING MANHOLE AND HEADWALL
3. CONSTRUCT 72" RCP STORM DRAIN, IGO3 D
4. CONSTRUCT REINFORCED CONCRETE HEADWALL PER DETAIL THIS SHEET
5. REMOVE EXISTING FENCES AND SIGNS
6. REMOVE AND RELOCATE EXISTING GAS METER
7. REMOVE AND RELOCATE EXISTING WATER VALVE AND VALVE BOX
8. CONSTRUCT CURB INLET CATCH BASIN, NO 70 PER A.P.W.A. STD DWG 300-0
9. CONSTRUCT 24" R.C.P. STORM DRAIN, IGO2 C
10. CONSTRUCT JUNCTION STR PER DETAIL SHOWN ON SHT 1 26" STORM LINE CONCRETE ENCASED PIPE S 2.35% W



NO.	REVISION	REVISED BY	APPROVED BY	DATE
1	REVISED LOCATION AND CONFIGURATION OF INLET STRUCTURE			
2	OMITTED DROP INLET STRUCTURE			

(12) CONSTRUCT DROP INLET PER DETAIL (B) SHT 1 OF 3
(17) INSTALL CLEARANCE MARKER PER DETAIL 3) SHT 1 OF
(18) INSTALL VELOCITY CONTROL RINGS PER DETAIL SHOWN HEREON

(11) CONSTRUCT 5' HIGH CHAINLINK FENCE PER A.P.W.A. STD PLAN 6'00-0
(13) CONSTRUCT TRASH RACK PER DETAILS SHOWN ON SHT 3 OF 3
(15) CONSTRUCT REINF. CONC. COLLAR PER L.A.C.F.C.D. PLAN NO 2-0.893
(16) CONSTRUCT STORM DRAIN W.M. # 2 PER L.A.C.F.C.D. STD 2-0186 (2-5/16")
(19) INSTALL 3" WATER LATERAL BY CONNECTING TO EXISTG 8" WATER MAIN INCLUDING BUTTERFLY GATE VALVE AND TEE (P/C)

raab engineering, inc.
1760 E. LINCOLN AVENUE SUITE 201
ANAHEIM, CA. 92805
(714) 533-0840
SIGNATURE: _____ R.C.E. NO 17616

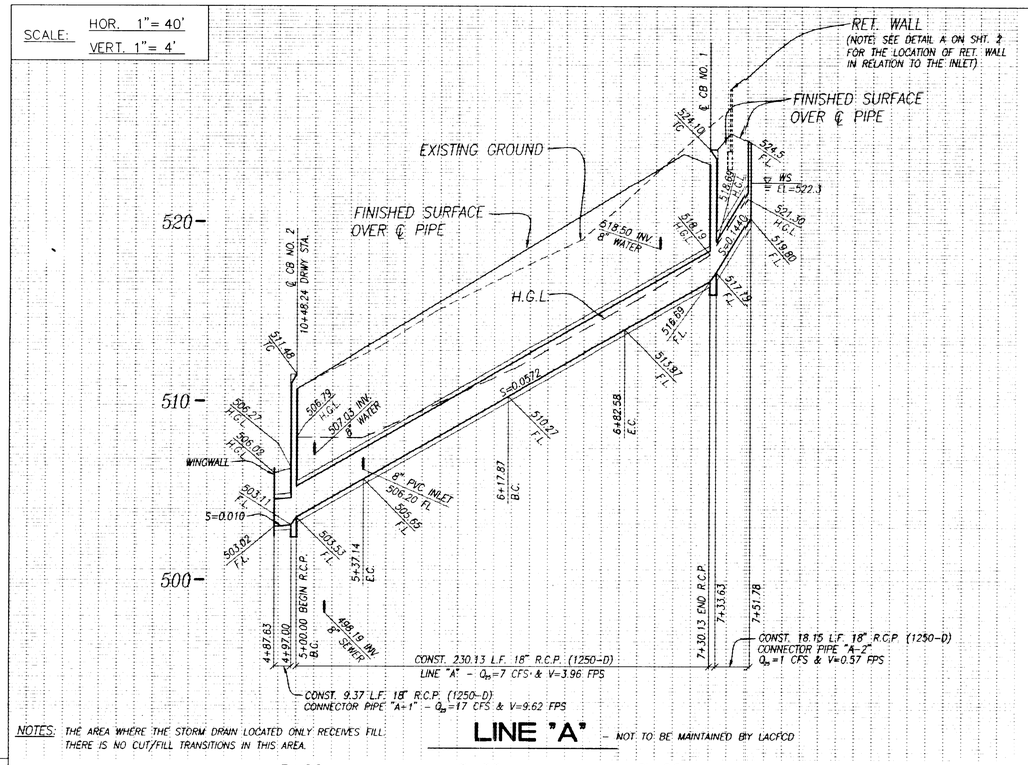
COUNTY OF LOS ANGELES, CALIFORNIA
THOMAS A. TIDEMANSON DIRECTOR OF PUBLIC WORKS
REVIEWED BY _____ DATE 5/21/69
PUBLIC ENGINEERING SERVICES

SHT 2 OF 4 SHTS

329

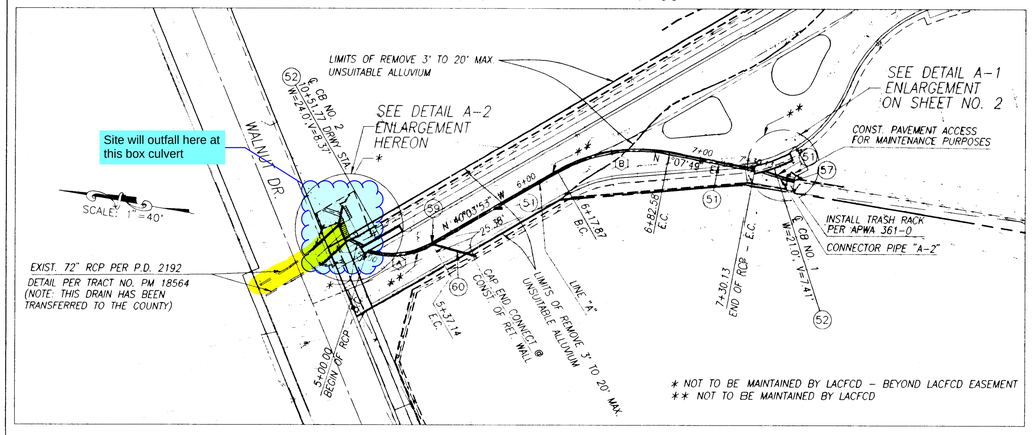
PF516836

SCALE: HOR. 1"= 40'
VERT. 1"= 4'



NOTES: THE AREA WHERE THE STORM DRAIN LOCATED ONLY RECEIVES FILL. THERE IS NO CUT/FILL TRANSITIONS IN THIS AREA.

LINE "A" – NOT TO BE MAINTAINED BY LACFCD



LINE "A"
BELLAVISTA DRIVE
PRIVATE DRWY/FIRE LANE

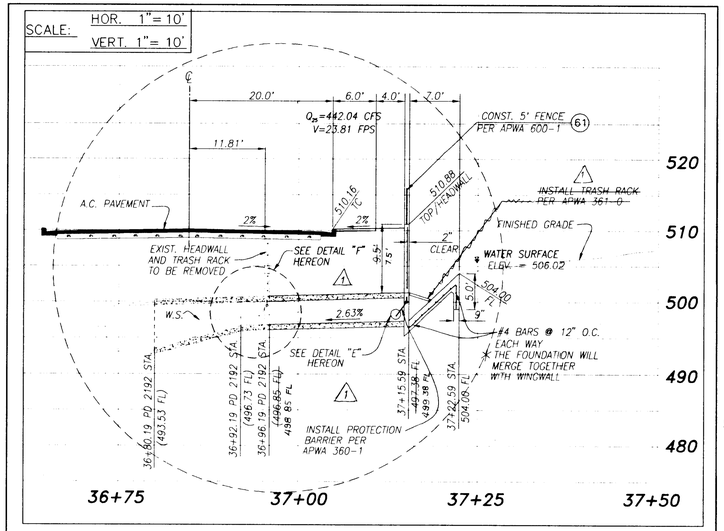
CONSTRUCTION NOTES

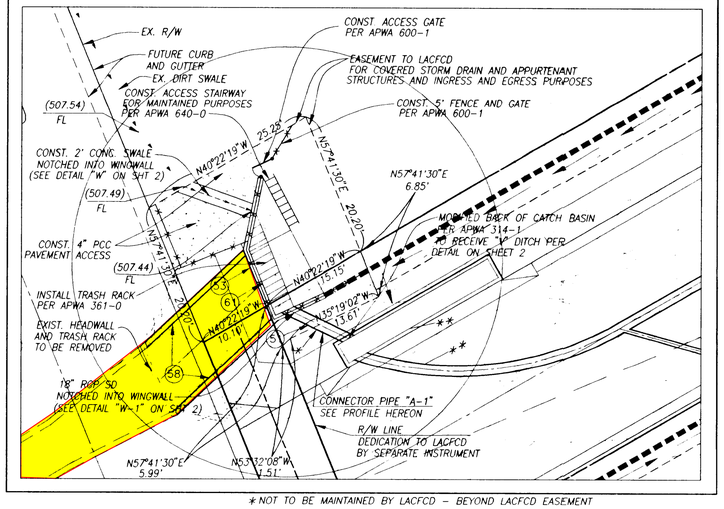
(51) CONST. 18" RCP (SEE PROFILE FOR D LOAD) **
(52) CONST. CURB OPENING CATCH BASIN PER APWA STD. PLAN NO. 300-2 **
AND LOCAL DEPRESSION PER L.A.CO. STD. 313-0 CASE "E", "W" AND "V" PER PLAN
(53) CONST. HEADWALL PER DETAIL "C" HEREON
(54) EXIST. INLET HEADWALL TO BE REMOVED
(57) CONST. INLET PER DETAIL A-1 ON SHEET NO. 2 **
(58) EXTEND EXISTING SINGLE BOX CULVERT (SIZE PER DETAIL HEREON)
(59) CONST. JUNCTION STRUCTURE PER A.P.W.A STD PLAN NO. 332-1, CASE 1
(60) CONST. 8" P.V.C. INLET PIPE **
(61) CONST. 5' HEADWALL FENCE PER AWA 600-1

CURVE DATA TABLE

	BEARING/DELTA	RADIUS	LENGTH	TANGENT
A	47°19'47"	45.00	37.17	19.72
B	41°11'42"	90.00	64.71	33.82

SCALE: HOR. 1"= 10'
VERT. 1"= 10'





* NOT TO BE MAINTAINED BY LACFCD – BEYOND LACFCD EASEMENT

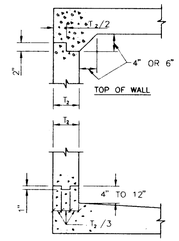
DETAIL A-2 ENLARGEMENT
SCALE: 1"=10'

40 20 0 40 120
GRAPHIC SCALE 1"=40'

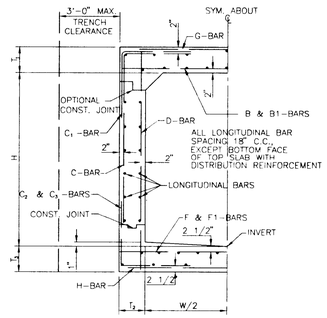
REVIEWED: LAND DEVELOPMENT DIVISION
2-20-01
BY SUBDIVISION PLAN CHECKING SECTION DATE

	REVISION	REVISED BY	APPROVED BY	DATE
1	REVISED ELEVATIONS OF EXISTING & PROPOSED BOX CULVERT AND REMOVE EXTRA TRASH RACK	DANH C. H-D David P. 6/13 in RKS 6/14		6-14-01

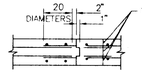
REGISTERED PROFESSIONAL ENGINEER DANH CONG HO No. 39100 Exp. 6-30-02 CIVIL STATE OF CALIFORNIA
PROJECT ENGINEER DATE



BASE OF WALL
N.T.S.



TYPICAL R.C. BOX SECTION



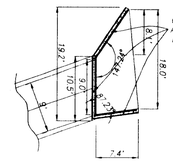
TRANSVERSE JOINT

CONSTRUCTION JOINT DETAILS
N.T.S.

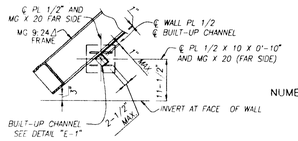
DESIGN DATA:
LIVE LOAD:
H20-S16-44 UNLESS OTHERWISE NOTED
DEAD LOAD
EARTH LOAD PER MARSTON'S FORMULA: W = 120 p.c.f.
Ku = Ku' = 0.150
Bd = OUTSIDE WIDTH OF BOX PLUS 3 FEET
SIDE EARTH 43 p.s.f. PER FOOT OF DEPTH
INTERNAL WATER PRESSURE:
62.4 p.s.f. PER FOOT OF DEPTH
WEIGHT OF CONCRETE : 150 p.s.f.
ALLOWABLE STRESSES:
f' = 4000 p.s.i. AT 28 DAYS
fc = 1800 p.s.i.
fc = 24,000 p.s.i.
n = 8
SBEAR AND BOND STRESSES PER A.C.I. 318-63

(58) R.C. BOX STRUCTURE
N.T.S.

BOX SECTION		A
Design Cover		9'10"
Width	W	9.00'
Height	H	3.17'
Top Slab Thickness	T1	10.00"
Side Wall Thickness	T2	9.00"
Bottom Slab Thickness	T3	10.50"
B Bars	Bar No. & Spacing	#8@18"
	Length	10'-3"
B1 Bars	Bar No. & Spacing	#5@18"
	Length	5'-8"
C Bars	Bar No. & Spacing	#4@14"
	Horiz. Length	4'-0.5"
	Vert. Length	3'-5.5"
C1 Bars	Bar No. & Spacing	#5@14"
	Horiz. Length	1'-9.5"
	Vert. Length	3'-5.5"
C2 Bars	Bar No. & Spacing	#4@14"
	Horiz. Length	4'-0.5"
	Vert. Length	3'-0"
C3 Bars	Bar No. & Spacing	#5@14"
	Horiz. Length	1'-9"
	Vert. Length	2'-7.5"
D Bars	Bar No. & Spacing	#4@18"
	Length	4'-7.5"
F Bars	Bar No. & Spacing	#8@17"
	Length	10'-3"
F1 Bars	Bar No. & Spacing	#5@17"
	Length	5'-11.5"
G Bars	Bar No. & Spacing	#4@14"
	Length	4'-6"
H Bars	Bar No. & Spacing	#4@14"
	Length	4'-6"



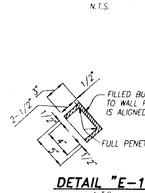
DETAIL "C"
HEADWALL & WINGWALL
(PER DETAILS SEE SHT. NO. 4)
SCALE: 1"=10'



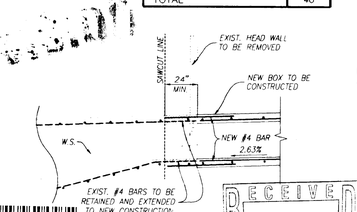
DETAIL "E"
N.T.S.

NUMBER OF LONGITUDINAL REINFORCEMENT #4 BARS

Top Slap (Includes Distrb.)	16
Bottom Slab	16
Side Walls	8
TOTAL	40



DETAIL "E-1"
N.T.S.



DETAIL "F"
N.T.S.

PF521109

RECEIVED
PROCESSING SECTION
LAND DEVELOPMENT DIVISION

STORM DRAIN PLANS IN
TRACT No. 52492 P.D. No. 2506
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

PREPARED BY:
civil engineering inc.
2021 E. FOURTH STREET, SUITE 119
SANTA ANA, CA. 92705
PH: (714) 547-6652
FAX: (714) 547-6765

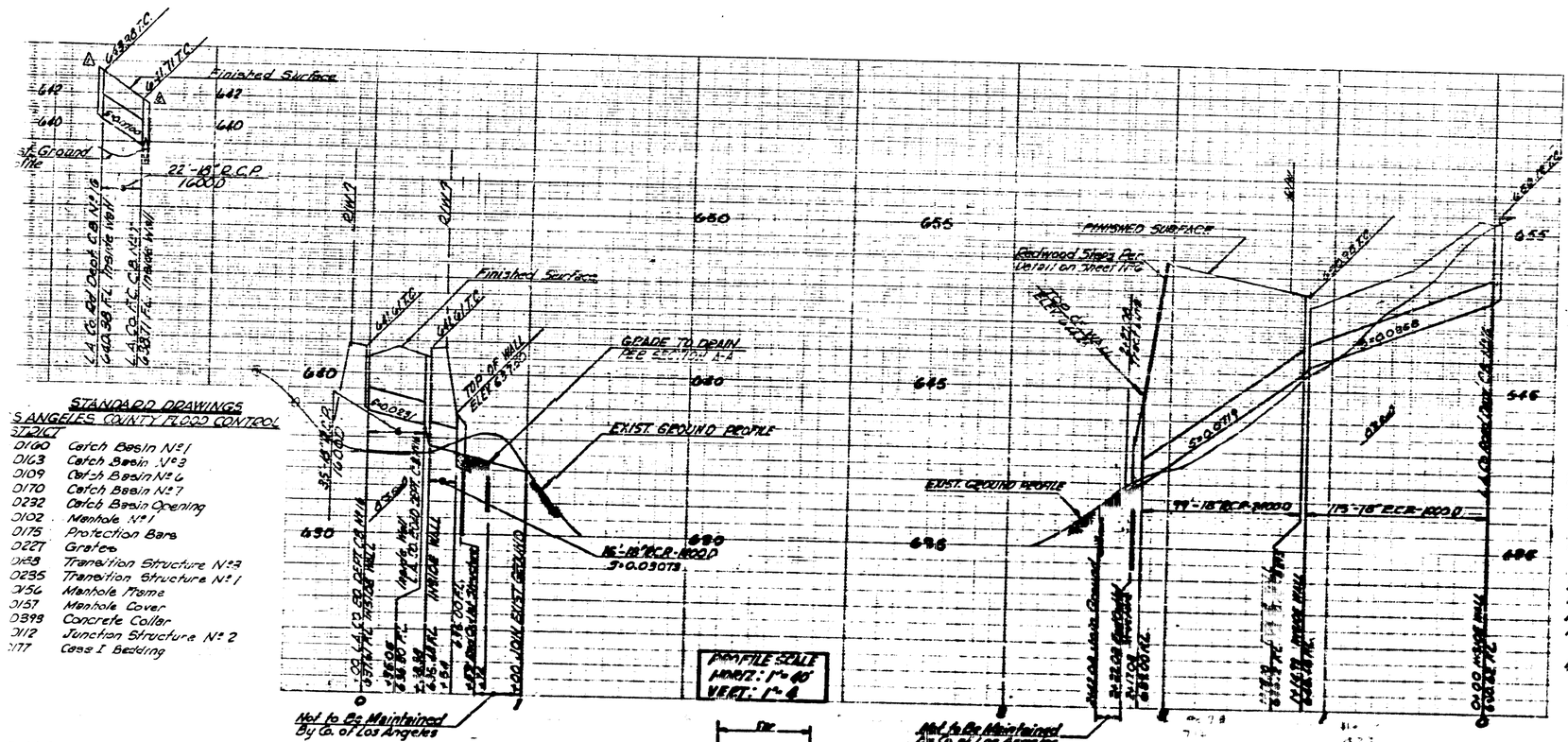
DWG SHEET 3 OF 4

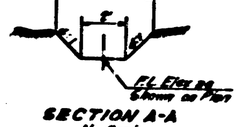
4-1-PF1092 DWG

C:\DHCE 1995 ENG\LDSHT01.DWG Mon Feb 05 14:51:00 PM

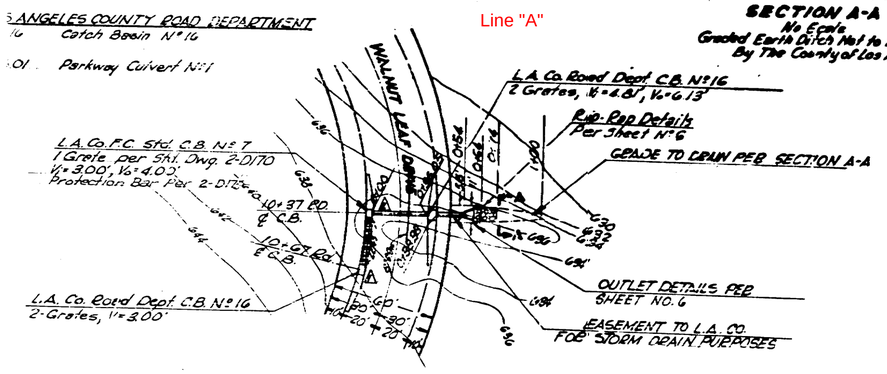
PLANS FOR STORM DRAINS
IN TRACT NO. 27141
PRIVATE DRAIN NO. 812

Prepared in the office of
WEACO INC.
John H. Aman R.C.E. No. 9516



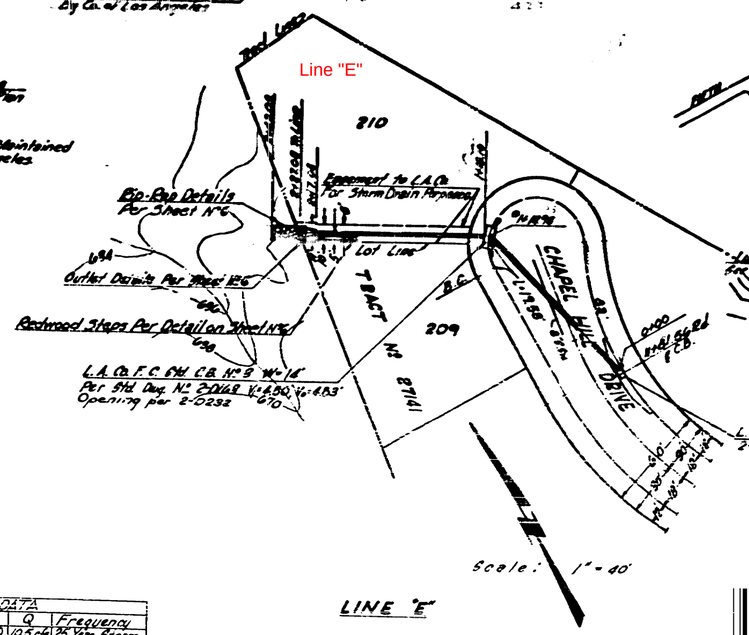


SECTION A-A
No Scale
Graded Earth Ditch Not to be Maintained By The County of Los Angeles



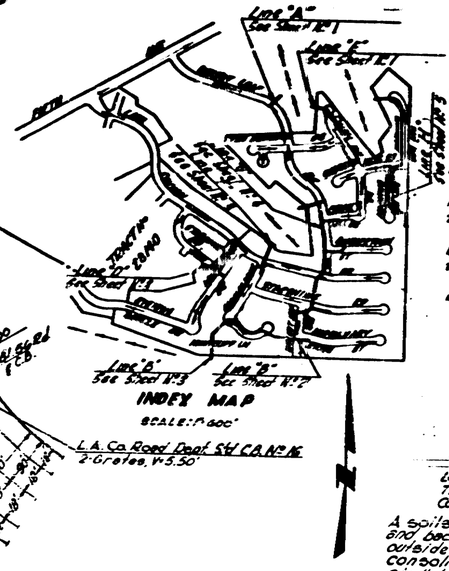
SCALE: 1"=40'

LINE "A"



Scale: 1"=40'

LINE "E"



NOTES:

All pipe shall be placed in a trench in natural Ground and/or compacted Fill. The ground level before the trenching shall be at least 3 feet above top of Pipe Elev. or at Finished surface elevation, whichever is less. All backfill in easements shall be compacted to the density required by the grading plan.

A permit shall be obtained from the Road Department and shall be submitted to the inspector prior to Commencing construction within their rights of Way.

All steel shown adjacent to a face of concrete shall be placed 2-½ inches from the concrete face unless otherwise shown.

All L.A. Co. Road Dept. Std. C.B. No. 16 shall be constructed with Protection Bars Per 2-0175 And Grates Per 2-0277.

RIP-RAP NOTES

Rock for grouted rip-rap shall be good quality broken concrete and/or river run rock. The smallest dimension shall exceed 3 inches, and the largest dimension shall not exceed 18 inches. The largest dimension shall not exceed 4 times the smallest dimension.

There shall be a grout bed of at least 2 inches beneath the first layer of rock. All the voids between the rocks shall be filled with grout. Maximum spacing between rocks shall be 2 inches.

Surface rocks shall be embedded from ⅓ to ⅔ their maximum dimension.

NOTES:

The Contractor shall notify the Construction Division by telephone, MAdison 9-4747, Extension 81951, at least 24 hours before starting any work under this contract.

This storm drain will not be accepted for maintenance until the streets have be paved, manholes brought up to grade, and the system is cleaned to the satisfaction of the County Engineer.

All catch basins (and connector pipes between catch basins) to be inspected by the County Road Department.

All backfill and fill around closed conduits in street rights of way shall be brought up to the sub-grade of the road or to 2 feet above the top of the conduit, whichever is less. The Road Department shall inspect all backfill and fill above the aforementioned limits. Application for an engineer or inspector in connection with the work shall be made by the contractor at least 24 hours before this service is required. Call CApitol 5-1677, Extension 75004.

All work shall be done in accordance with Standard Specifications for Public Works, 1967 Edition, and shall be prosecuted only in the presence of the County Engineer.

Approval of this plan by the County of Los Angeles does not constitute a representation as to the accuracy of the location of or the existence or non-existence of any underground utility, pipe, or structure within the limits of this project. This note applies to all sheets.

All R.C. pipe shall be bedded in accordance with Class A bedding per D-54 unless otherwise specified.

All manhole covers not in street paving shall be provided with Allen socket set screw locking devices. The Contractor shall drill and tap two holes to a depth of 1 inch at 90 degrees to pick hole and install ¼ inch by ¼ Allen socket set screws.

Elevations are in feet above U.S.G.S. mean sea level datum of 1929.

All state and local trench safety orders will be rigidly enforced.

All concrete shall be 3000 pounds per square inch portland cement concrete, 28 days ultimate compressive strength.

Chamfer all exposed edges with ¾ inch chamfure.

Dimensions from face of concrete to steel are to center of bars unless otherwise shown.

All steel to be continuous around with a minimum lap of 30 diameters.

Longitudinal steel shall be continuous and extend through all construction joints and around all corners unless otherwise shown.

At the beginning and end of all pours a layer of reinforcement shall be placed within 3 inches of the transverse construction joints.

Unless otherwise shown concrete dimensions shall be measured vertically or horizontally or at right angles (or radial) to the center line of construction.

All pipes shall be embedded a minimum of 5 inches into head walls or other structures.

BENCH MARK

B.G. 3107 R.D.B.M. Tag S. C.B. Near B.C.R. @ S.E. COR. 5th Ave. & Lake Cyn Rd 40' S. & 98' E. Approx. ℄ Int. OTTABEIN 1965
ELEV. 801.619

Line "D" will not be Transfered to the Los Angeles County Flood Control District. They will be Maintained By the Los Angeles County Road Department.

A soils engineer shall certify that all fills and backfills over underground storm drains outside of street R/W have been compacted or consolidated to a 90% density. This certification shall be submitted to the County Engineer prior to acceptance of the work by the County.

STANDARD DRAWINGS
S ANGELES COUNTY FLOOD CONTROL
STRUCT

D160	Catch Basin No. 1
D163	Catch Basin No. 2
D109	Catch Basin No. 4
D170	Catch Basin No. 7
D232	Catch Basin Opening
D102	Manhole No. 1
D175	Protection Bars
D227	Grates
D258	Transition Structure No. 3
D235	Transition Structure No. 1
D156	Manhole Frame
D157	Manhole Cover
D398	Concrete Collar
D112	Junction Structure No. 2
D177	Class I Bedding

S ANGELES COUNTY ENGINEER

1	5' Chain Link Fence
72	Concrete Pipe Anchors
54	Pipe Bedding
67	Protection Barrier No. 1

S ANGELES COUNTY ROAD DEPARTMENT

16	Catch Basin No. 16
01	Parkway Culvert No. 1

HYDRAULIC DATA

Line	Sta. to Sta.	Q	Frequency
A	0+00 to 0+38.00	10.5 cfs	25 Year Storm
A	0+38.33 to 0+56.00	16 cfs	25 Year Storm
E	0+00 to 1+14.93	7.6 cfs	50 Year Storm
E	1+14.10 to 2+17.08	20.5 cfs	50 Year Storm

Q25=17.6 cfs

PF514434

COUNTY OF LOS ANGELES, CALIFORNIA
JOHN A. LANBIE COUNTY ENGINEER

Approved by: Design Division
ASST. DIVISION ENGINEER Date: 7-17-67

Checked by: Date 9/18/67
OFFICE OF THE COUNTY ENGINEER - R.C.E. C 21749 17-24

Reviewed By L.A. Co. Road Department
BY: Date: 8-25-67

Sheet 1 of 7

PD 812 SHT 1 OF 7

Existing Ground Profile
Redwood Steps Per Detail on Sheet No. 6
Finished Surface
172'-33" R.C.P. 2200D
Identical
Finished Surface
Existing Ground Profile
209'-33" R.C.P. 2100D
Existing Ground Profile
Finished Surface
22'-18" R.C.P. 2200D
Existing Ground Profile
Finished Surface
Mof. to be maintained by the County of Los Angeles
Finished Surface
Existing Ground Profile
Redwood Steps Per Detail on Sheet No. 6
Mof. to be Maintained by the County of Los Angeles
Grade Per Section B-B
Existing Ground Profile
Finished Surface
Case I Backfill Per L.A.Co. F.C. Std. 2-0111
Case I Backfill Per L.A.Co. F.C. Std. 2-0111
PROFILE SCALE
HORIZ: 1"=40'
VERT: 1"=8'
L.A. Co. Road Dept. Std. C.B. No. 16, 2 Grates, V=8.00'
L.A.Co. F.C. Std. J.S. No. 2 Per Std. Dwg. No. 2-0112, A=90°, B=18", C=18", D=3'
Paved Gutter and Sidewalk Per Grading Plan
MORNING SUN STREET
L.A.Co. F.C. Std. J.S. No. 2 Per Std. Dwg. No. 2-0112
L.A.Co. F.C. Std. M.H. No. 1 Per Std. Dwg. No. 2-0102
L.A.Co. F.C. Std. M.H. No. 1 Per Std. Dwg. No. 2-0102
L.A.Co. F.C. Std. J.S. No. 2 Per Std. Dwg. No. 2-0112
Easement to L.A. Co. for Storm Drain Purposes
Redwood Steps Per Detail on Sheet No. 6
Outlet Details Per Sheet No. 7
Rip-Rap Details Per Sheet No. 7
TRACT
TRACT No. 27141
HILLS ROAD
SHEPHERD
L.A.Co. F.C. Std. M.H. No. 1 Per Std. Dwg. No. 2-0102
L.A.Co. F.C. Std. J.S. No. 2 Per Std. Dwg. No. 2-0112
L.A.Co. F.C. Std. M.H. No. 1 Per Std. Dwg. No. 2-0102
L.A.Co. F.C. Std. C.B. No. 1 V=5.0' - Per Std. Dwg. No. 2-0160
Tract Line
Redwood Steps Per Detail on Sheet No. 6
Easement to L.A. Co. for Storm Drain and Access Purposes
For Details of Inlet Structure See Sheet No. 6
Grade per Section B-B
MORNING SUN STREET
L.A.Co. F.C. Std. M.H. No. 1
Scale: 1"=40'
Elev. as Shown in Profile
SECTION B-B
No Scale
Q25=70.5 cfs
LINE "H"

CURVE DATA

Curve	Δ	R	T	L
a	90°00'00"	22.50'	22.50'	36.34'
b	90°00'00"	45.00'	45.00'	70.69'
c	83°17'26"	45.00'	39.92'	65.41'
d	74°18'34"	120.00'	18.84'	31.69'
e	84°59'53"	45.00'	41.16'	66.65'
f	12°26'09"	190.00'	77.58'	147.70'
g	41°59'01"	45.00'	20.02'	37.01'
h	77°18'55"	22.50'	23.42'	48.81'

HYDRAULIC DATA

Line	Sta. to Sta.	Q	Frequency
H	0+00 / 9+53.77	45	25 Year Storm
H	9+53.77 / 12+36.05	67.1	25 Year Storm
H	12+36.05 / 19+79.25	82.3	50 Year Storm

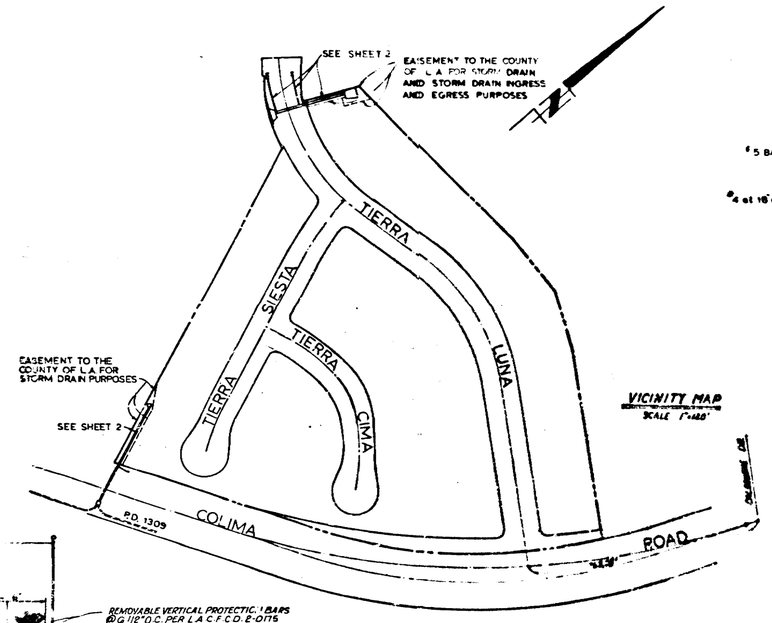
P.D. 812
COUNTY OF LOS ANGELES, CALIFORNIA
JOHN A. LAMBIE COUNTY ENGINEER
DESIGN DIVISION
Checked by [signature] Date: 9/13/67
OFFICE OF THE COUNTY ENGINEER Bkg. C.E. No. 11936
Sheet 5 of 7
Prepared By [signature] Date: 6-29-67
WILSON, ICE & KRAMER INC. NEWPORT BEACH

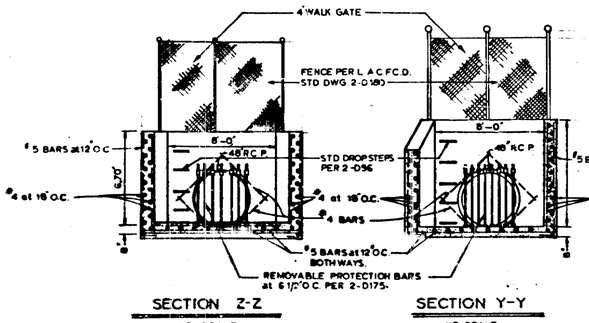
"PF514438"

P D 8 1 2 S H T 5 O F 7

BENCH MARK: B.G. 3108
ROAD DEPT. B.M. TAG IN WEST CURB 1 FT. NORTH OF BCR @ N.W. CORNER COLIMA RD. (54th AVE.) & CALBOURNE DR. 80 FT. NORTH & 18 FT. WEST & INT.
ELEV. = 583.105

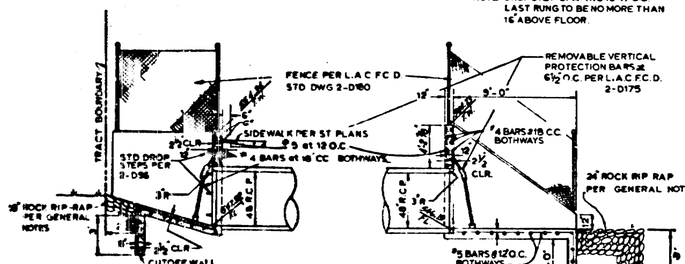
STORM DRAIN PLANS IN TRACT No. 31845 P.D. No. 1266





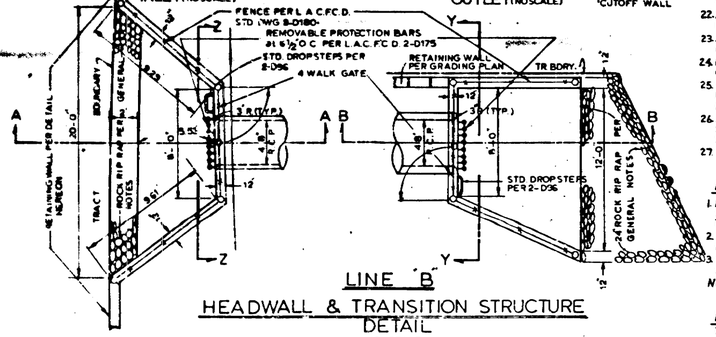
SECTION Z-Z
NO SCALE

SECTION Y-Y
NO SCALE

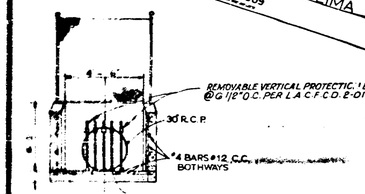


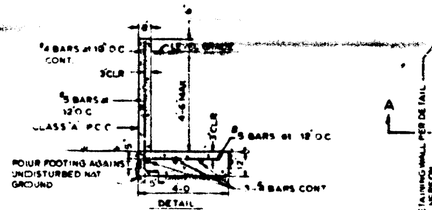
SECTION A-A
INLET (NO SCALE)

SECTION B-B
OUTLET (NO SCALE)

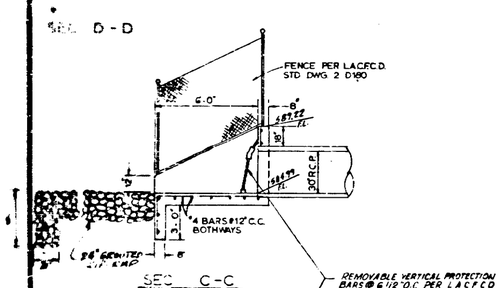


LINE "B"
HEADWALL & TRANSITION STRUCTURE DETAIL
NO SCALE

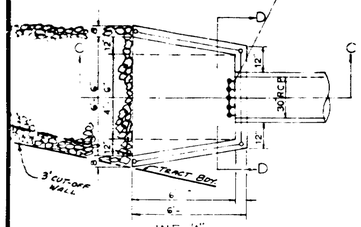




REINF. CONC. RETAINING WALL (NO SCALE)
NOT TO BE MAINTAINED BY THE L.A.C.F.C.D.



SEC. C-C



LINE "A"
OUTLET STRUCTURE
NO SCALE

GENERAL NOTES:

1. ELEVATIONS ARE IN FEET ABOVE MSL (U.S.G.S.) MEAN SEA LEVEL DATUM OF 1929. ALL WORK SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1976 EDITION AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE COUNTY ENGINEER.
2. APPROVAL OF THIS PLAN BY THE COUNTY OF LOS ANGELES DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION, OR THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY, PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THIS NOTE APPLIES TO ALL SHEETS.
3. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION DIVISION BY TELEPHONE, 974-7283 AT LEAST 24 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT. THE CONTRACTOR SHALL SUBMIT A DEPOSIT FOR CONSTRUCTION INSPECTION TO THE COUNTY ENGINEER, ROOM 800, 108 WEST 2ND STREET, LOS ANGELES, AT LEAST 24 HOURS BIEFORE STARTING ANY WORK UNDER THIS CONTRACT.
4. ALL CONSTRUCTION JOINTS IN THE FOOTING OF SLABS AND WALLS SHALL BE IN THE SAME PLANE. NO STAGGERING OF JOINTS WILL BE PERMITTED.
5. NO CONCRETE SHALL BE PLACED UNTIL THE FORMS AND REINFORCING STEEL HAS BEEN PLACED, INSPECTED AND APPROVED.
6. TRANSVERSE REINFORCEMENT AND TRANSVERSE JOINTS SHALL BE PLACED AT RIGHT ANGLES (OR RADIAL) TO CONDUIT CENTERLINE EXCEPT AS OTHERWISE SHOWN ON THE DRAWINGS.
7. ALL CONCRETE SHALL BE PORTLAND CEMENT CONCRETE WITH AN ULTIMATE 28 DAYS COMPRESSIVE STRENGTH OF 3000 PSI. UNLESS OTHERWISE NOTED.
8. ALL EXPOSED EDGES SHALL BE FINISHED WITH A 3/4" CHAMFER.
9. ALL STEEL SHALL HAVE 2 1/2" CLEARANCE UNLESS OTHERWISE SPECIFIED.
10. REINFORCMENT SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE STEEL AS PER ASTM 615
11. ALL BAR BENDS AND HOOKS SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE "MANUAL OF STANDARD PRACTICE."
12. DIMENSIONS FROM FACE OF CONCRETE TO STEEL ARE TO CENTERLINE OF STEEL UNLESS OTHERWISE NOTED.
13. ALL BACKFILLS AND FILLS TO BE USED AS SUBGRADE SHALL BE COMPACTED TO A RELATIVE DENSITY OF 90% UNLESS OTHERWISE SPECIFIED.
14. ALL STEEL THAT IS TO BE CONTINUOUS SHALL HAVE A MINIMUM LAP OF 30 BAR DIAMETERS OR 18", WHICHEVER IS GREATER.
15. ALL CATCH BASINS AND CONNECTOR PIPES BETWEEN CATCH BASINS TO BE INSPECTED BY THE COUNTY ROAD DEPARTMENT.
16. ALL PIPE SHALL BE PLACED IN A TRENCH IN NATURAL GROUND AND/OR COMPACTED FILL. THE GROUND LEVEL BEFORE THE TRENCHING SHALL BE AT LEAST 3 FEET ABOVE TOP OF PIPE ELEVATION, OR AT FINISH SURFACE ELEVATION, WHICHEVER IS LESS. ALL BACKFILL IN EASEMENTS SHALL BE COMPACTED TO THE DENSITY REQUIRED BY THE GRADING PLAN.
17. ALL BACKFILL AND FILL AROUND CLOSED CONDUIT IN STREET RIGHTS OF WAY SHALL BE BROUGHT UP TO SUBGRADE OF THE ROAD OR TO 2 FEET ABOVE THE TOP OF THE CONDUIT, WHICHEVER IS LESS. THE ROAD DEPARTMENT SHALL INSPECT ALL BACKFILL AND FILL ABOVE AFOREMENTIONED LIMITS. APPLICATION FOR AN ENGINEER OR INSPECTOR IN CONNECTION WITH THE WORK, SHALL BE MADE BY THE CONTRACTOR AT LEAST 24 HOURS BEFORE HIS SERVICE IS REQUIRED. CALL 226-8188
18. A PERMIT SHALL BE OBTAINED FROM THE ROAD DEPARTMENT AND SHALL BE SUBMITTED TO THE INSPECTOR PRIOR TO COMMENCING CONSTRUCTION WITHIN THEIR RIGHTS OF WAY.
19. ALL REINFORCED CONCRETE PIPE SHALL BE BEDDED IN ACCORDANCE WITH LOS ANGELES COUNTY ENGINEER CASE A4 BEDDING PER STANDARD DRAWING D-54.
20. UNLESS OTHERWISE SHOWN, CONCRETE DIMENSIONS SHALL BE MEASURED VERTICALLY OR HORIZONTALLY AND PARALLEL OR AT RIGHT ANGLES (OR RADIAL) TO THE CENTERLINE OF CONSTRUCTION.
21. THIS STORM DRAIN WILL NOT BE ACCEPTED FOR MAINTENANCE UNTIL THE STREETS HAVE BEEN PAVED, MANHOLES BROUGHT TO GRADE, AND THE SYSTEM IS CLEANED TO THE SATISFACTION OF THE COUNTY ENGINEER.
22. LONGITUDINAL STEEL SHALL BE CONTINUOUS AND EXTEND THROUGH ALL CONSTRUCTION JOINTS EXCEPT TRANSVERSE JOINTS IN RECTANGULAR CHANNELS AND AROUND ALL CORNERS UNLESS OTHERWISE SHOWN.
23. AT THE BEGINNING AND END OF ALL POURS A LAYER OF REINFORCEMENT SHALL BE PLACED WITHIN 3 INCHES OF THE TRANSVERSE CONSTRUCTION JOINTS.
24. UNLESS OTHERWISE SHOWN, TRANSVERSE JOINT KEYWAYS IN BOTH SLABS AND WALLS SHALL BE PLACED AT THE END OF EACH POUR BUT THE SPACING THERE OF SHALL NOT EXCEED 50 FEET NOR BE LESS THAN 10 FEET.
25. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION IN REGARD TO SAFETY ORDERS. THE CONTRACTOR SHALL CONFORM TO THE "MINIMUM PUBLIC SAFETY REQUIREMENTS" AS SHOWN ON LOS ANGELES COUNTY ENGINEER STANDARD S-2.
26. A SOILS ENGINEER SHALL CERTIFY THAT ALL FILLS AND BACKFILLS OVER UNDERGROUND STORM DRAINS OUTSIDE OF STREET R/W HAVE BEEN COMPACTED OR CONSOLIDATED TO A 90% DENSITY. THIS CERTIFICATION SHALL BE SUBMITTED TO THE COUNTY ENGINEER PRIOR TO ACCEPTANCE OF THE WORK BY THE COUNTY.
27. 2"X4" REDWOOD HEADER SHALL BE INSTALLED AT THE EDGE OF ALL 3" A.C. PAVING.

RIPRAP NOTES:

1. ROCKS FOR GROUTED RIPRAP SHALL BE GOOD QUALITY BROKEN CONCRETE AND/OR RIVER RUN ROCK. THE SMALLEST DIMENSION SHALL EXCEED 3 INCHES AND THE LARGEST DIMENSION SHALL NOT EXCEED 18 INCHES. THE LARGEST DIMENSION SHALL NOT EXCEED 4 TIMES THE SMALLEST DIMENSION.
2. THERE SHALL BE A GROUT BED OF AT LEAST 2 INCHES BENEATH THE FIRST LAYER OF ROCK. ALL THE VOIDS BETWEEN THE ROCKS SHALL BE FILLED WITH GROUT. MAXIMUM SPACING BETWEEN ROCKS SHALL BE 2 INCHES.
3. SURFACE ROCKS SHALL BE IMBEDDED FROM 1/3 TO 2/3 OF THEIR VERTICAL DIMENSION. MAXIMUM PROTRUSION SHALL NOT EXCEED TWO INCHES ABOVE GROUT.

NOTE: CONCRETE MAY BE SUBSTITUTED FOR THE GROUT.

PRIVATE ENGINEERS NOTICE TO CONTRACTORS

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THIS MAP. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THIS DRAWING.

GENERAL NOTES CONT.

28. THE INSPECTOR MAY HAVE THE OPTION TO REQUIRE CONCRETE BACKFILL DURING CONSTRUCTION WHEN THE PIPE HAS LESS THAN ONE FOOT OF COVER AND IS SUBJECTED TO HEAVY EQUIPMENT TRAFFIC. THE CONCRETE BACKFILL SHALL CONSIST OF 1.3.5 MIX CEMENT CONCRETE POURED FROM WALL TO WALL OF TRENCH AND FROM BOTTOM OF TRENCH TO A MINIMUM DEPTH OF 4 INCHES OVER TOP OF PIPE.
29. ALL PIPES SHALL BE EMBEDDED A MINIMUM OF 5 INCHES INTO HEADWALLS OR OTHER STRUCTURES

LIST OF STANDARD DRAWINGS

L.A.C.F.C.D.	
C.B. NO 1	2 D160
C.B. NO 2	2 D162
C.B. NO 3	2 D173
J.S. NO 1	2 D193
J.S. NO 2	2 D112
M.H. NO. 2	2 D184
REMOVABLE PROTECTION BARS	2 D175, 2 D264
FENCE GATE DETAILS	2 D180
DROP STEPS	2 D96
CATCH BASIN REINFORCEMENT	2 D157, 2 D172
CONNECTION TO CATCH BASIN	2 3224
CATCH BASIN OPENING DETAIL	2 D232
CURB & GUTTER TRANS.	66-03
PIPE BEDDING (L.A. CO. ENGR.)	D-54

HYDRAULIC DATA

LINE	STA TO STA	Q(c.f.s.)	Vn(f/sec)	FREQ	LINE	Q(c.f.s.)	Vn(f/sec)	FREQ
A	0+25.00 — 1+42.84	50.5	10.29	50yr	B-1	6.0	3.40	50yr
					B-2	22.1	3.13	50yr
A-1		1.0	4.44	50yr				
B	C+13.77 — 1+10.18	100.8	11.35	50yr				
B	1+10.18 — 1+54.18	94.8	11.18	50yr				
B	1+54.18 — 1+60.43	72.7	10.49	50yr				

Q25=86.3 cfs

REVIEWED BY THE LOS ANGELES COUNTY ROAD DEPT.
BY: Irene J. Thiessen DATE: 10-29-76

PLANS PREPARED BY:
RAAB & BOYER ENGINEERING CO.
14492 BEACH BLVD SUITE R
WESTMINSTER, CALIFORNIA 92683
(714) 638-3522 (714) 897-5412
SIGNATURE: Delbert D Boyer R.C.E. NO. 13542

Delbert D Boyer
DELBERT D BOYER R.C.E. 13542

2/18/76
DATE

PF515272

COUNTY OF LOS ANGELES, CALIFORNIA
STEPHEN J. KOONCE ACTING COUNTY ENGINEER

DESIGN DIVISION

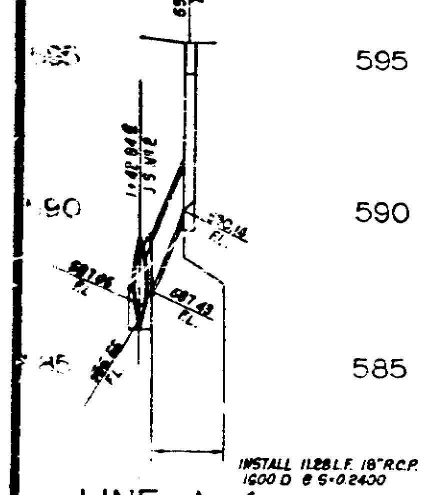
APPROVED BY: Howard R. Stoffman Assist. DIVISION ENGINEER DATE: 11/19/76

CHECKED BY: Howard Sergis R.C.E. NO. 14615 DATE: 11/19/76
OFFICE OF COUNTY ENGINEER

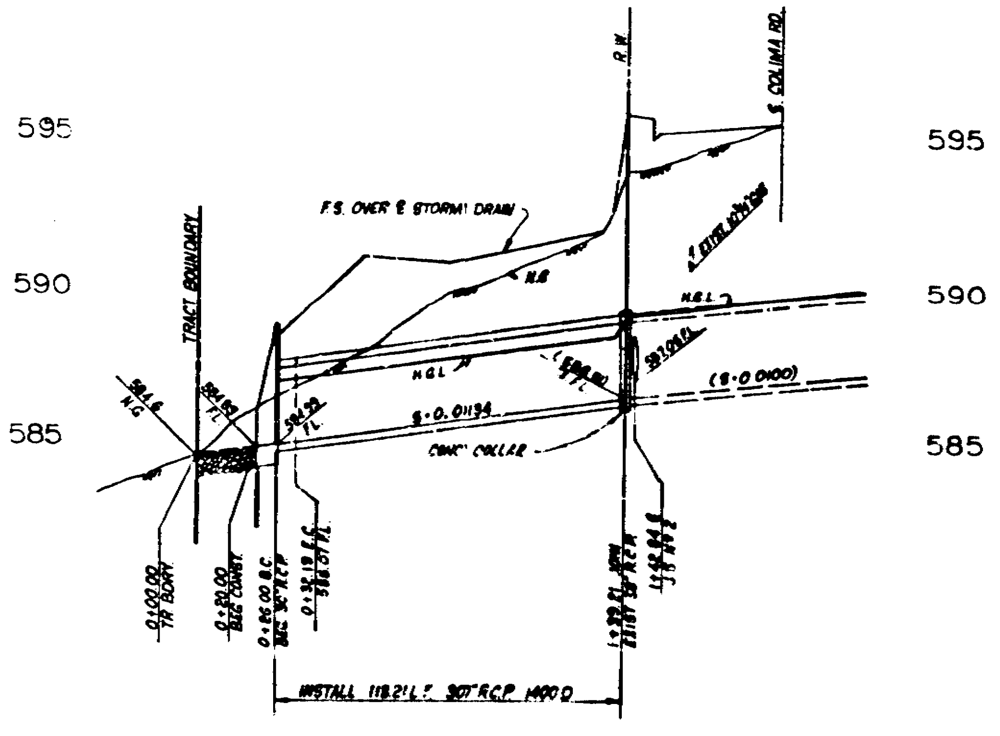
SHT 1 OF SHTS

SOUTHERN CALIFORNIA BLUEPRINT CO. P.O. SHEET 21

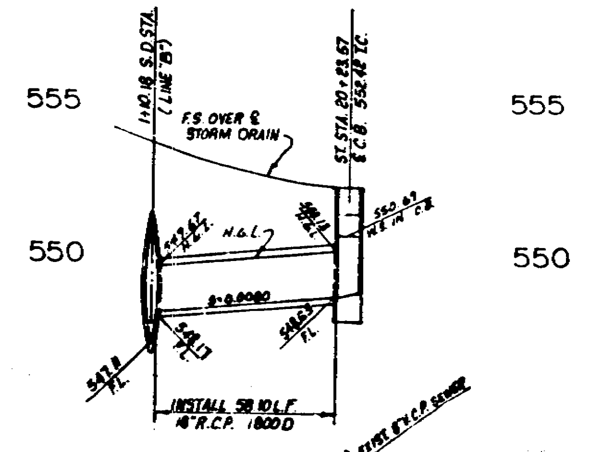
STORM DRAIN PLANS IN
TRACT No. 31845 P.D. No. 1266



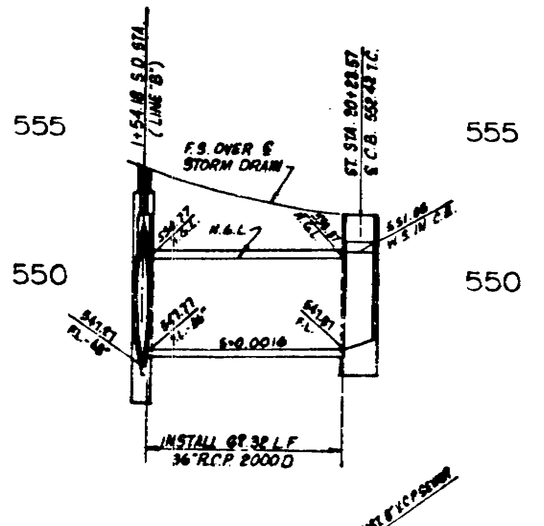
LINE A-1



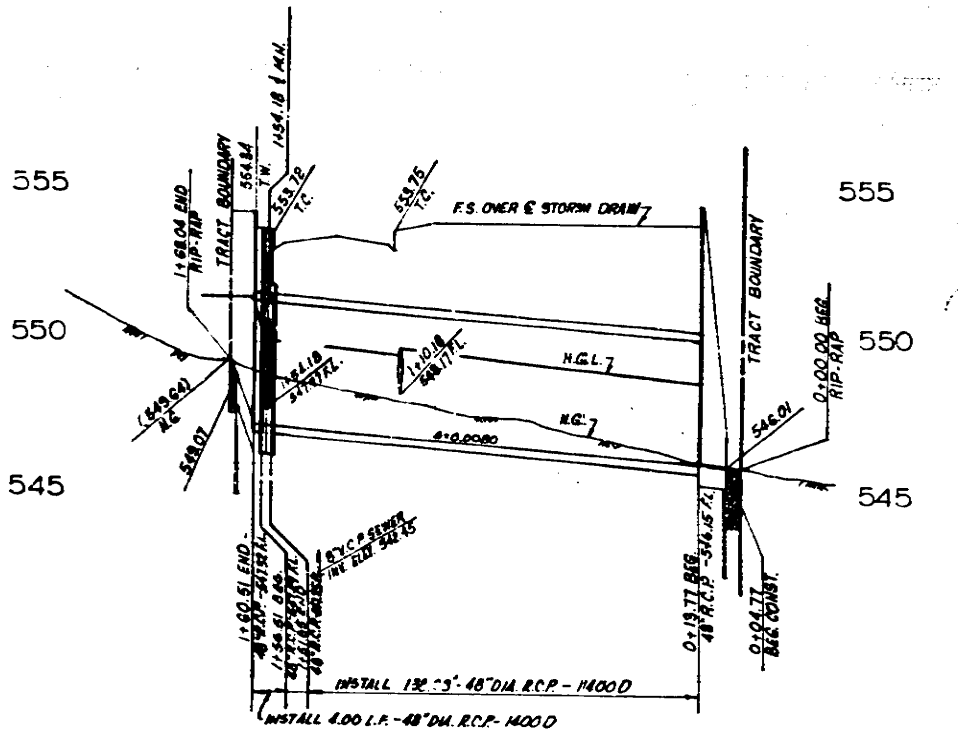
LINE A



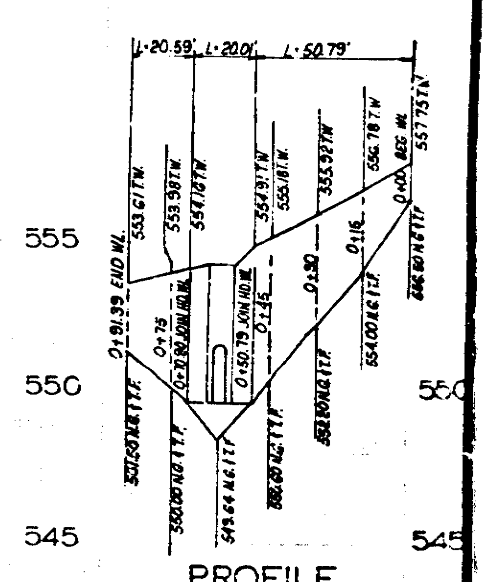
LINE B-1



LINE B-2

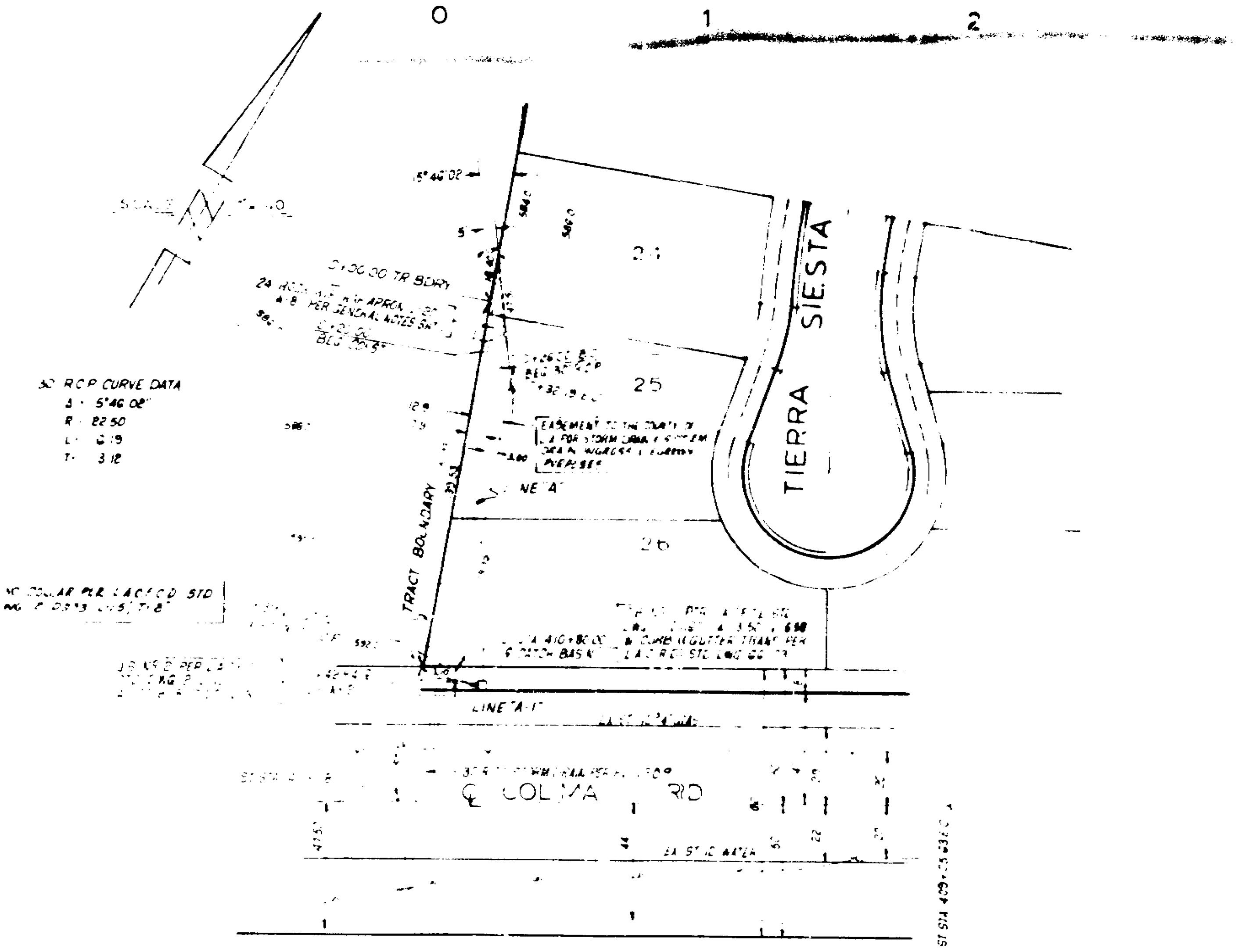


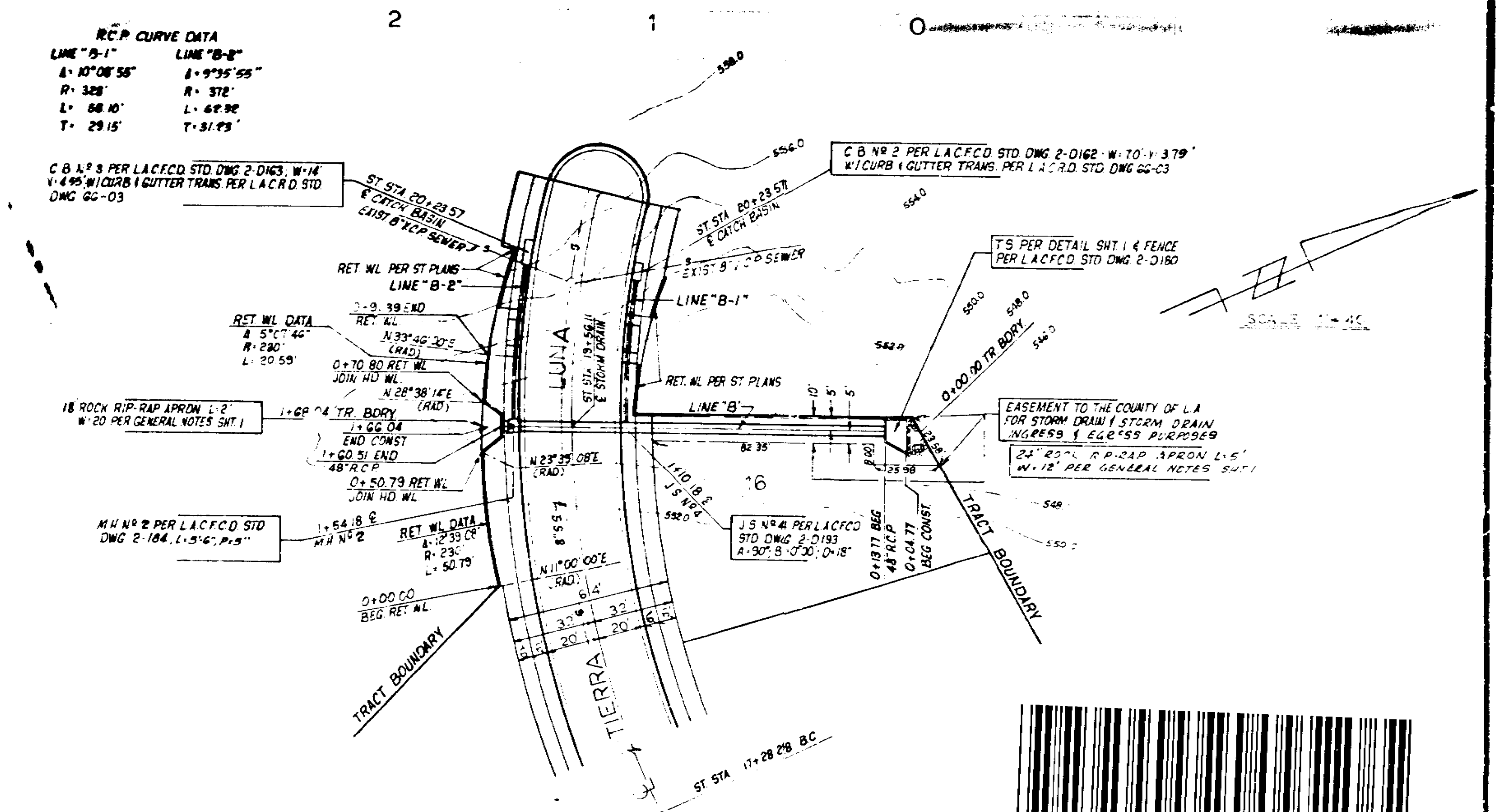
LINE B



PROFILE
REINF. CONC. RET. WALL

PROFILE SCALE
HORIZ: 1"=40'
VERT: 1"=4'
PLAN SCALE
1"=40'





PF515273

PLANS PREPARED BY
RAAB & BOYER ENGINEERING CO.
14482 BEACH BLVD. SUITE R
WESTMINSTER, CALIFORNIA 92683
PH. (714) 638-3522 (714) 897-5412

SIGNATURE: Walbert W. Boyer R.C.E. NO. 13542

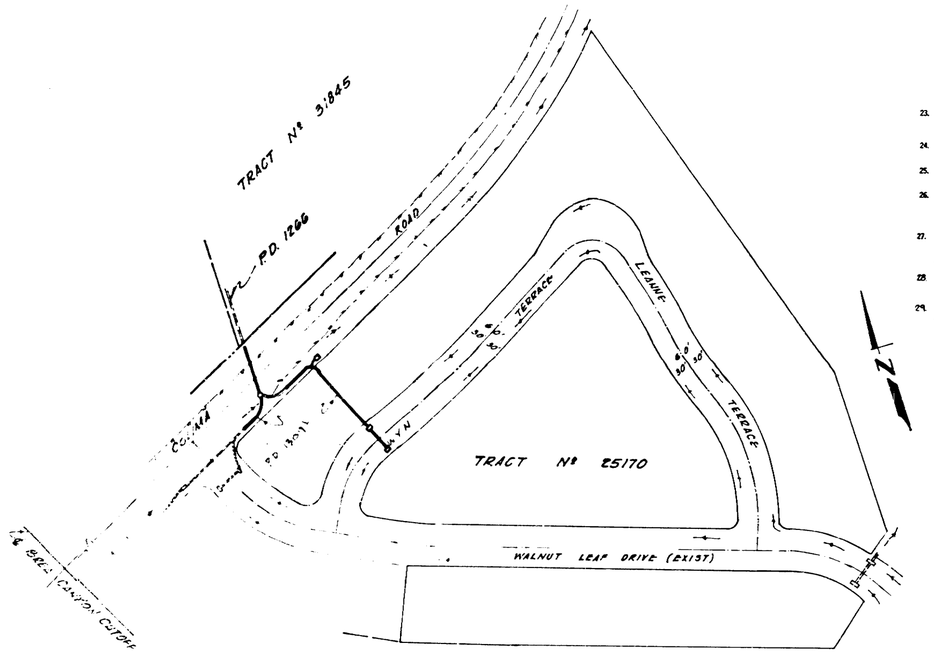
COUNTY OF LOS ANGELES, CALIFORNIA
STEPHEN J. KOONCE ACTING COUNTY ENGINEER

DESIGN DIVISION
CHECKED BY: Howard C. Sasaki R.C.E. NO. 12695 DATE:
OFFICE OF COUNTY ENGINEER

SHT OF

BENCH MARK: B.C. 3862 ELEV 597.195
L+T IN CB 15FT N BCE GG FT S. +22 FT.
W. C/L INT. COLIMA RD & WALNUT LEAF DR.
OTTERBEIN QUAD. 1970

STORM DRAIN PLANS IN TRACT No. 25170 P.D. No. 1309



GENERAL NOTES (Cont'd)

23. A SOILS ENGINEER SHALL CERTIFY THAT ALL FILLS AND BACKFILLS OVER UNDERGROUND STORM DRAINS OUTSIDE OF ST. R/W HAVE BEEN COMPACTED OR CONSOLIDATED TO A 90% DENSITY. THIS CERTIFICATION SHALL BE SUBMITTED TO THE COUNTY ENGINEER PRIOR TO ACCEPTANCE OF THE WORK BY THE COUNTY.
24. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 7-10. 4.1 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION IN REGARD TO SAFETY ORDERS.
25. THE CONTRACTOR SHALL CONFORM TO THE "MINIMUM PUBLIC SAFETY REQUIREMENTS" AS SHOWN ON LOS ANGELES COUNTY ENGINEER STANDARD S-2.
26. ALL PIPE SHALL BE PLACED IN A TRENCH IN NATURAL GROUND AND/OR COMPACTED FILL. THE GROUND LEVEL BEFORE THE TRENCHING SHALL BE AT LEAST 3 FEET ABOVE TOP OF PIPE ELEVATION, OR AT FINISH SURFACE ELEVATION, WHICHEVER IS LESS. ALL BACKFILL IN EASEMENTS SHALL BE COMPACTED TO THE DENSITY REQUIRED BY THE GRADING PLAN.
27. THE INSPECTOR MAY HAVE THE OPTION TO REQUIRE CONCRETE BACKFILL DURING CONSTRUCTION WHEN THE PIPE HAS LESS THAN ONE FOOT OF COVER AND IS SUBJECTED TO HEAVY EQUIPMENT TRAFFIC. THE CONCRETE BACKFILL SHALL CONSIST OF 1:3:5 MIX CEMENT CONCRETE POURED FROM WALL TO WALL OF TRENCH AND FROM BOTTOM OF TRENCH TO A MINIMUM DEPTH OF 4 INCHES OVER TOP OF PIPE.
28. WHERE VELOCITIES EXCEED 20 FEET PER SECOND PROVIDE ½" ADDITIONAL COVER OVER INVERT STEEL.
29. P.D. 1309 - LINE "A" AND P.D. 1266 - LINE "A" SHALL BE CONSTRUCTED CONCURRENTLY.

GENERAL NOTES:

1. ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. MEAN SEA LEVEL DATUM OF 1929. ALL WORK SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1973 EDITION" AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE COUNTY ENGINEER.
2. APPROVAL OF THIS PLAN BY THE COUNTY OF LOS ANGELES DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION, OR THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY, PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THIS NOTE APPLIES TO ALL SHEETS.
3. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION SECTION OF THE DESIGN DIV. BY TELEPHONE, 974-7283 AT LEAST 24 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT. THE CONTRACTOR SHALL SUBMIT A DEPOSIT FOR CONSTRUCTION INSPECTION TO THE COUNTY ENGINEER, 108 WEST 2ND STREET, LOS ANGELES, AT LEAST 24 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
4. ALL CONSTRUCTION JOINTS IN THE FOOTING OF SLABS AND WALLS SHALL BE IN THE SAME PLANE. NO STAGGERING OF JOINTS WILL BE PERMITTED.
5. NO CONCRETE SHALL BE PLACED UNTIL THE FORMS AND REINFORCING STEEL HAS BEEN PLACED, INSPECTED AND APPROVED.
6. TRANSVERSE REINFORCEMENT AND TRANSVERSE JOINTS SHALL BE PLACED AT RIGHT ANGLES (OR RADIAL) TO CONDUIT CENTERLINE EXCEPT AS OTHERWISE SHOWN ON THE DRAWINGS.
7. ALL CONCRETE SHALL BE PORTLAND CEMENT CONCRETE WITH AN ULTIMATE 28 DAYS COMPRESSIVE STRENGTH OF 3000 p.s.i. UNLESS OTHERWISE SHOWN.
8. ALL EXPOSED EDGES SHALL BE FINISHED WITH A 3/4" CHAMFER.
9. ALL STEEL ADJACENT TO FACE OF CONCRETE SHALL HAVE 2½" CLEARANCE UNLESS OTHERWISE SPECIFIED.
10. REINFORCEMENT SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE STEEL AS PER A.S.T.M. A-615
11. ALL BAR BENDS AND HOOKS SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE "MANUAL OF STANDARD PRACTICE".
12. DIMENSIONS FROM FACE OF CONCRETE TO STEEL ARE TO CENTERLINE OF STEEL UNLESS OTHERWISE NOTED.
13. ALL BACKFILLS AND FILLS TO BE USED AS SUBGRADE SHALL BE COMPACTED TO A RELATIVE DENSITY OF 90% UNLESS OTHERWISE SPECIFIED.
14. ALL STEEL THAT IS TO BE CONTINUOUS SHALL HAVE A MINIMUM LAP OF 30 BAR DIAMETERS OR 18", WHICHEVER IS GREATER.
15. ALL CATCH BASINS AND CONNECTOR PIPES BETWEEN CATCH BASINS TO BE INSPECTED BY THE COUNTY ROAD DEPARTMENT.
16. PIPE SHALL BE EMBEDDED 5 INCHES INTO ALL STRUCTURES INCLUDING INLET & HEADWALLS, UNLESS OTHERWISE SPECIFIED.
17. WHERE PIPE IS TO BE PLACED IN FILL, THE FILL SHALL BE COMPACTED TO A MINIMUM DEPTH OF 3 FEET ABOVE THE TOP OF PIPE PRIOR TO TRENCHING.
18. ALL BACKFILL AND FILL AROUND CLOSED CONDUIT IN STREET RIGHTS OF WAY SHALL BE BROUGHT UP TO SUBGRADE OF THE ROAD OR TO 2 FEET ABOVE THE TOP OF THE CONDUIT, WHICHEVER IS LESS. THE ROAD DEPARTMENT SHALL INSPECT ALL BACKFILL AND FILL ABOVE AFOREMENTIONED LIMITS. APPLICATION FOR AN ENGINEER OR INSPECTOR IN CONNECTION WITH THE WORK, SHALL BE MADE BY THE CONTRACTOR AT LEAST 24 HOURS BEFORE HIS SERVICE IS REQUIRED. CALL CAPITOL 5-1677 EXTENSION 75004.
19. A PERMIT SHALL BE OBTAINED FROM THE ROAD DEPARTMENT AND SHALL BE SUBMITTED TO THE INSPECTOR PRIOR TO COMMENCING CONSTRUCTION WITHIN THEIR RIGHTS OF WAY.
20. ALL REINFORCED CONCRETE PIPE SHALL BE BEDDED IN ACCORDANCE WITH LOS ANGELES COUNTY ENGINEER CASE Ad BEDDING PER STANDARD DRAWING D-54, UNLESS OTHERWISE NOTED.
21. UNLESS OTHERWISE SHOWN, CONCRETE DIMENSIONS SHALL BE MEASURED VERTICALLY OR HORIZONTALLY AND PARALLEL OR AT RIGHT ANGLES (OR RADIAL) TO THE CENTER LINE OF CONSTRUCTION.
22. THIS STORM DRAIN WILL NOT BE ACCEPTED FOR MAINTENANCE UNTIL THE STREETS HAVE BEEN PAVED, MANHOLES BROUGHT TO GRADE, AND THE SYSTEM IS CLEANED TO THE SATISFACTION OF THE COUNTY ENGINEER.

STANDARD PLANS

MH #1	2-D102	L.A.C.F.C.D.
STEPS	2-D96	"
CB #1	2-D160	"
CO #2	2-D162	"
JS #2	2-D118	"
ANCHOR & REINF	2-D252	"
M.H. FRAME & COVER	2-D272	"
REINF	2-D171	"
	2-D107	"
	2-D269	"
	2-D156	"
	2-D175	"
	2-D172	"
	2-D221	"
	2-D232	"

PIPE BEDDING D-54 L.A. CO. ENGINEER
LD 66-03 L.A. CO. RD.
LD 68-01 "

RIPRAP NOTES

1. ROCKS FOR GROUTED RIPRAP SHALL BE GOOD QUALITY BROKEN CONCRETE AND/OR RIVER RUN ROCK. THE SMALLEST DIMENSION SHALL EXCEED 3 INCHES AND THE LARGEST DIMENSION SHALL NOT EXCEED 18 INCHES. THE LARGEST DIMENSION SHALL NOT EXCEED 4 TIMES THE SMALLEST DIMENSION.
2. THERE SHALL BE A GROUT BED OF AT LEAST 2 INCHES BENEATH THE FIRST LAYER OF ROCK. ALL THE VOIDS BETWEEN THE ROCKS SHALL BE FILLED WITH GROUT. MAXIMUM SPACING BETWEEN ROCKS SHALL BE 2 INCHES.
3. SURFACE ROCKS SHALL BE IMBEDDED FROM 1/2 TO 2/3 OF THEIR MAXIMUM DIMENSION.

NOTE: CONCRETE MAY BE SUBSTITUTED FOR THE GROUT.

PRIVATE ENGINEERS NOTICE TO CONTRACTORS

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THIS MAP.
THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY PIPES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THIS DRAWING.

G. BART STRYKER 12-96
REGISTERED CIVIL ENGINEER No. DATE

HYDRAULIC DATA

LINE	STATION LIMITS		Q25 (CFS)	V (FPS)	DIAM.	FLOW
A	0+00	1+47	45.0	11.0	30"	OPEN
A	1+47	2+20	44.0	9.0	30"	FULL
*A	2+20	3+09	29.4	20.4	24"	OPEN
B	0+00	0+71	14.6	4.6	24"	FULL
B	0+71	0+98	13.2	4.2	24"	FULL
*B	0+98	1+50	13.2	25.8	24"	OPEN
B	1+50	2+01	13.2	7.4	24"	OPEN
B	2+05	2+42	5.8	3.3	18"	FULL
*C	0+00	0+17	1.4	23.3	18"	OPEN

* PROVIDE ½" ADDITIONAL COVER OVER INVERT STEEL

NO.	REVISION	REVISED BY	APPROVED BY	DATE

REVIEWED BY THE LOS ANGELES COUNTY ROAD DEPT.
BY: Wm R Kramer DATE: 5-7-76

PF515341

G. BART STRYKER
CIVIL ENGINEERING
17501 IRVINE BLVD.
TUSTIN, CALIF 92680 TEL 838-3877
SIGNATURE: G. Bart Stryker R.C.E. NO. 13196

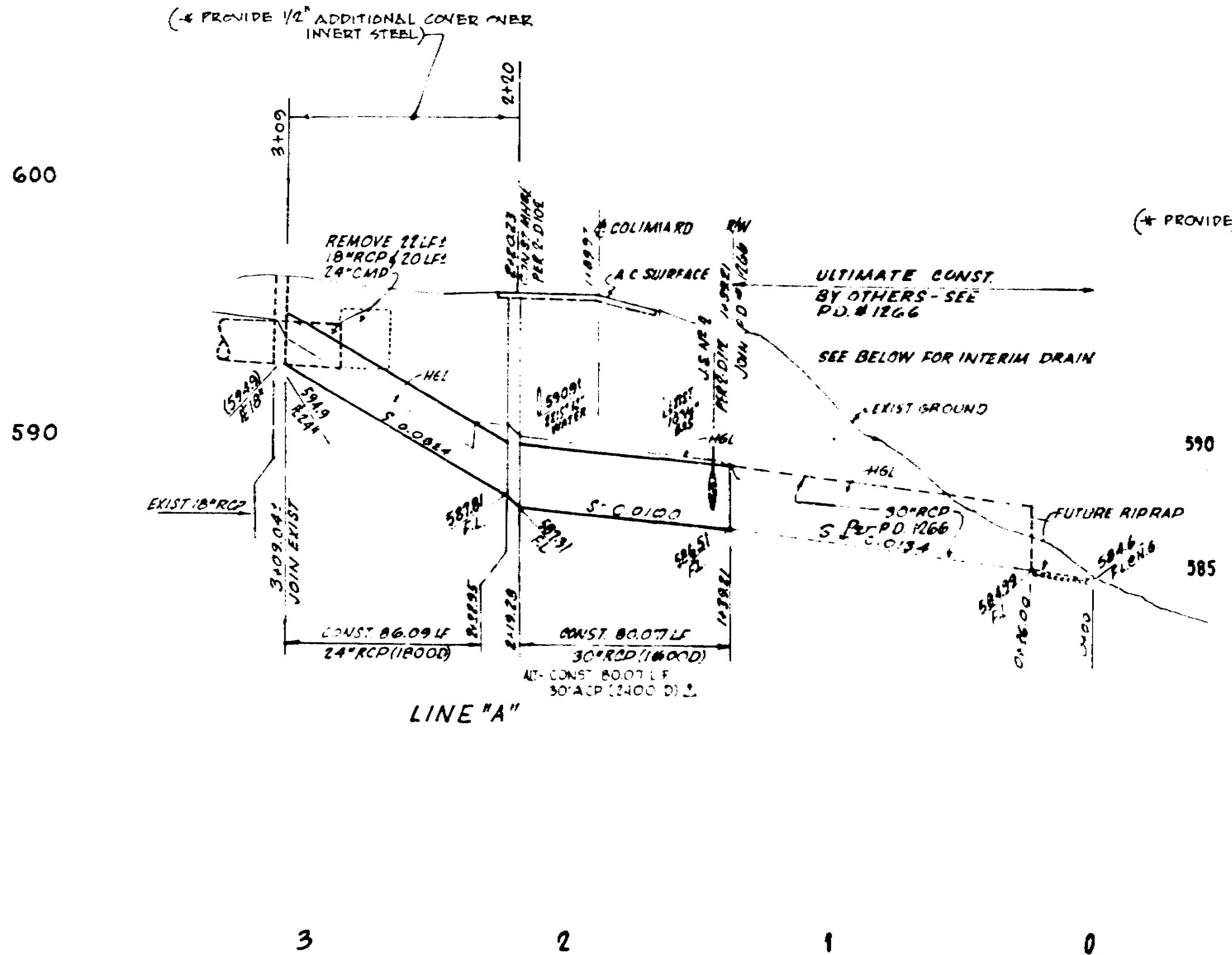
COUNTY OF LOS ANGELES, CALIFORNIA
JAMES T. ROSTRON CHIEF DEPUTY, COUNTY ENGINEER

DESIGN DIVISION
APPROVED BY: Carl J. Smith DIVISION ENGINEER DATE

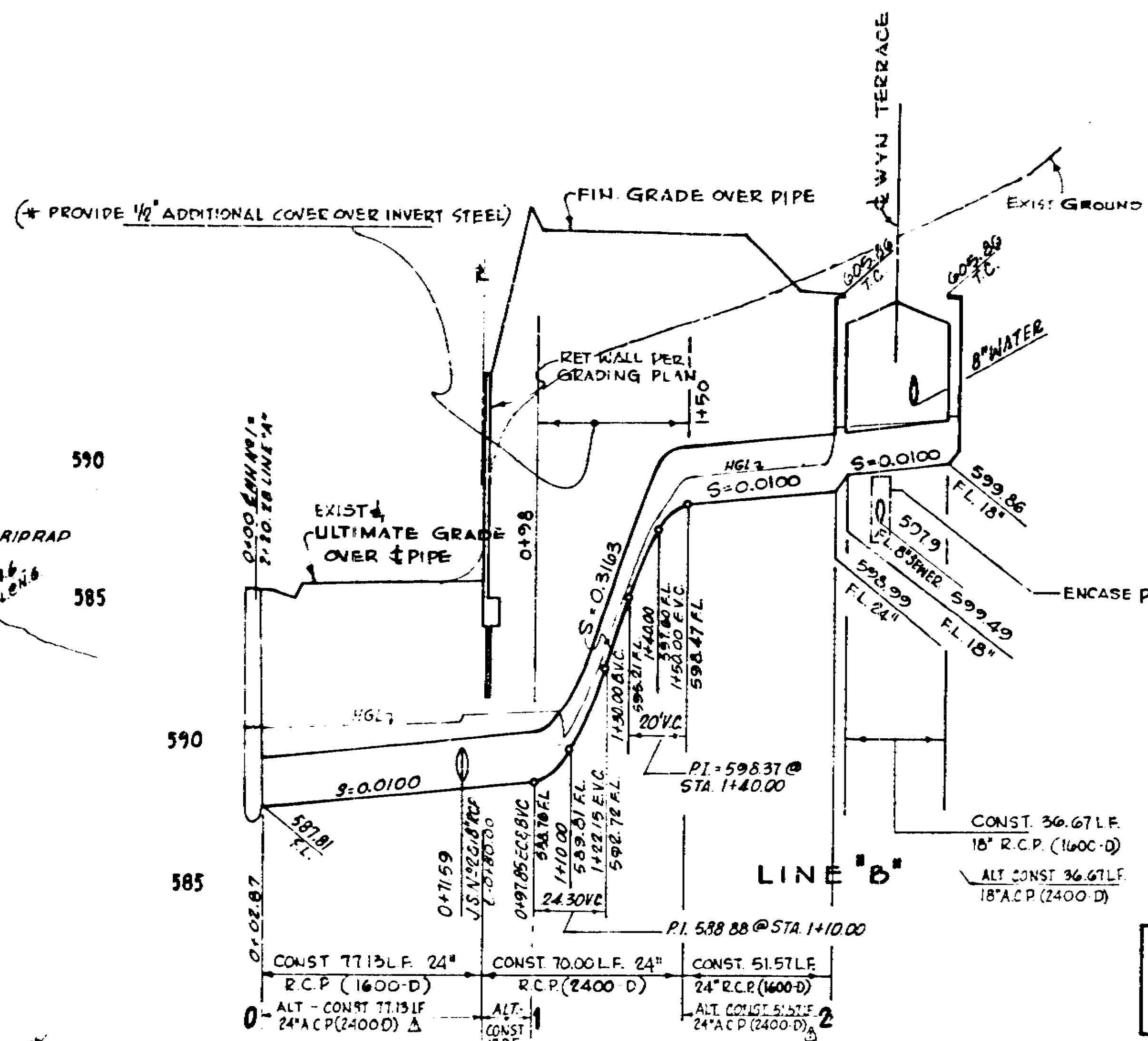
CHECKED BY: David A Nelson R.C.E. NO. 24711 DATE
OFFICE OF COUNTY ENGINEER

34-F 731.1 SHT

TRACT No. 25170 P.D. No. 1309

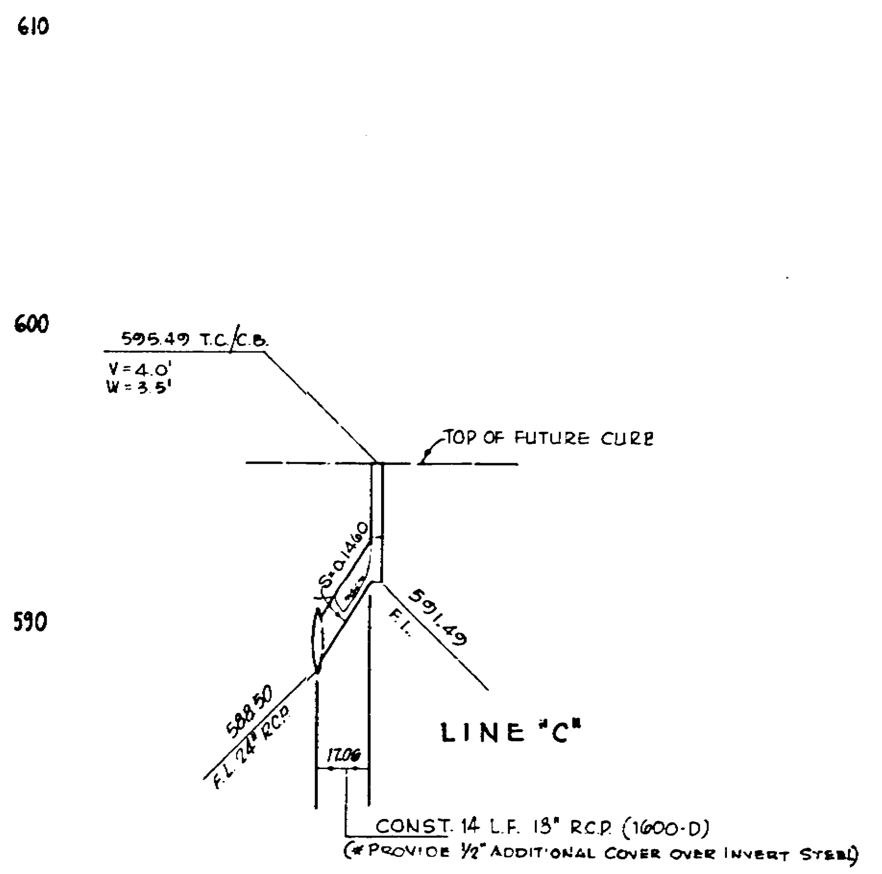


LINE "A"

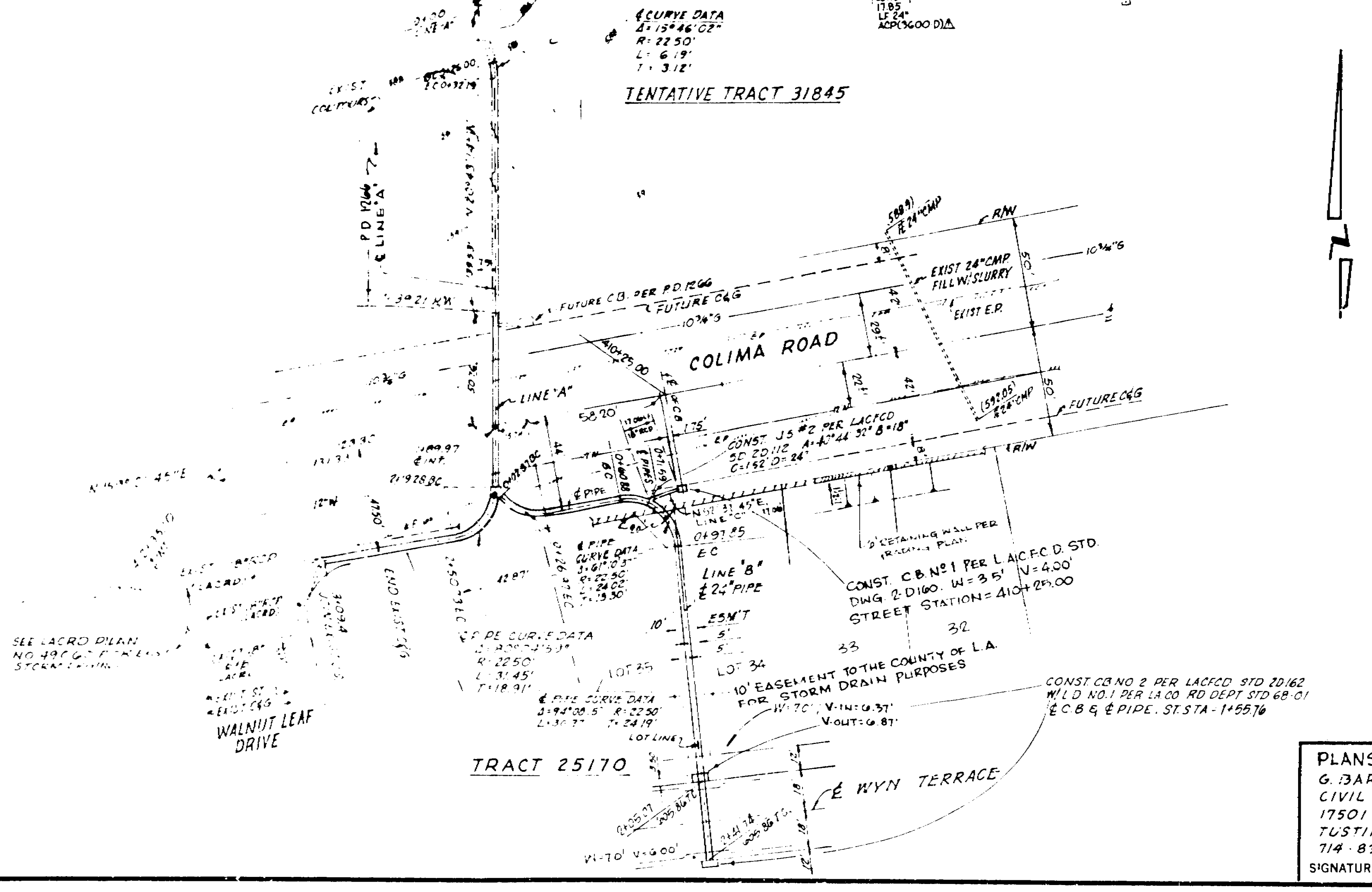


SCALES,

HORIZ.	1" = 40'
VERTICAL	1" = 4'
PLAN	1" = 40'



NOTE P.D. 1309, LINE A AND P.D. 1266, LINE A SHALL BE CONSTRUCTED CONCURRENTLY

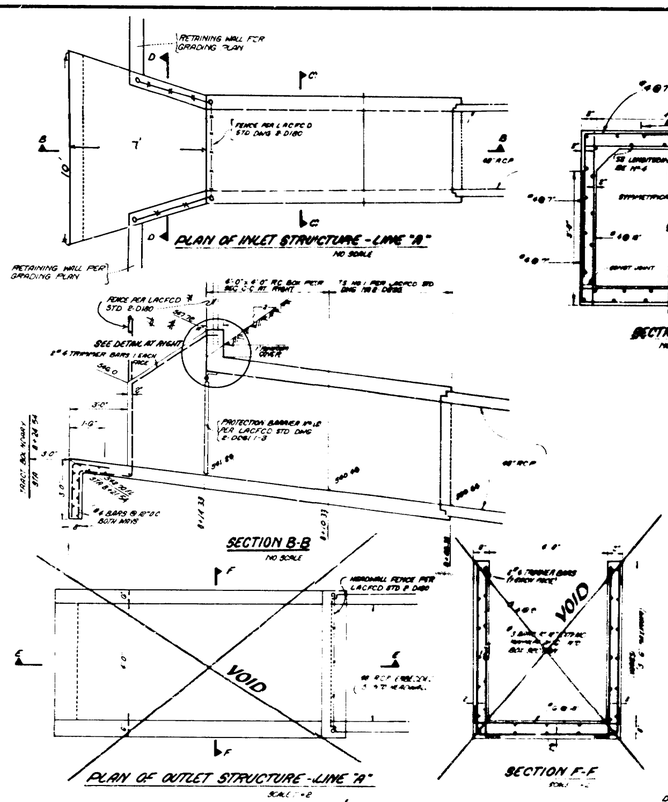


REVISION	REVISED BY	APPROVED BY	DATE
[illegible]	[illegible]	[illegible]	[illegible]

PLANS PREPARED BY:
G. BART STRYKER
CIVIL ENGINEERING
17501 IRVINE BLVD.
TUSTIN, CALIF. 92680
714 · 838 · 8877
SIGNATURE: G. Bart Stryker R.C.E. NO. 13195

COUNTY OF LOS ANGELES, CALIFORNIA
JAMES T. ROSTRON CHIEF DEPUTY, COUNTY ENGINEER
DESIGN DIVISION
CHECKED BY: Edward J. Berga R.C.E. NO. 16695 DATE: 5-24-70
OFFICE OF COUNTY ENGINEER

34-F 731-2 SHT 2 OF 2 SHT



BENCH MARK:

L+N WEST END CONC. HEADWALL 18' SOUTH ℄ WALNUT DRIVE + 60' EAST ℄ PRODUCTION WATER STREET

B.O. 1909 ELEVATION 508.580 (1970)

STORM DRAIN PLANS IN TRACT No. 31550 P.D. No. 1369 UNIT 1

GENERAL NOTES (Cont'd)

23. A SOILS ENGINEER SHALL CERTIFY THAT ALL FILLS AND BACKFILLS OVER UNDERGROUND STORM DRAINS OUTSIDE OF ST. R/W HAVE BEEN COMPACTED OR CONSOLIDATED TO A 90% DENSITY. THIS CERTIFICATION SHALL BE SUBMITTED TO THE COUNTY ENGINEER PRIOR TO ACCEPTANCE OF THE WORK BY THE COUNTY.
24. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 7-10.11 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION IN REGARD TO SAFETY ORDERS.
25. THE CONTRACTOR SHALL CONFORM TO THE "MINIMUM PUBLIC SAFETY REQUIREMENTS" AS SHOWN ON LOS ANGELES COUNTY ENGINEER STANDARD S-2.
26. ALL PIPE SHALL BE PLACED IN A TRENCH IN NATURAL GROUND AND/OR COMPACTED FILL. THE GROUND LEVEL BEFORE THE TRENCHING SHALL BE AT LEAST 3 FEET ABOVE TOP OF PIPE ELEVATION, OR AT FINISH SURFACE ELEVATION, WHICHEVER IS LESS. ALL BACKFILLS IN EASEMENTS SHALL BE COMPACTED TO THE DENSITY REQUIRED BY THE GRADING PLAN.
27. THE INSPECTOR MAY HAVE THE OPTION TO REQUIRE CONCRETE BACKFILL DURING CONSTRUCTION WHEN THE PIPE HAS LESS THAN ONE FOOT OF COVER AND IS SUBJECTED TO HEAVY EQUIPMENT TRAFFIC. THE CONCRETE BACKFILL SHALL CONSIST OF 1-3.5 MIX CEMENT CONCRETE POURED FROM WALL TO WALL OF TRENCH AND FROM BOTTOM OF TRENCH TO A MINIMUM DEPTH OF 4 INCHES OVER TOP OF PIPE.
28. SUBSECTION 7-8.1.1 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION IS AMENDED TO DELETE THE REQUIREMENT FOR SUBMISSION OF TRENCH SHORING PLANS TO THE AGENCY.
29. A PERMIT SHALL BE OBTAINED FROM LACFCD PRIOR TO BEGINNING CONSTRUCTION
30. THE CONTRACTOR SHALL NOTIFY THE LACFCD AREA INSPECTOR AT 289-4600 24 HOURS PRIOR TO COMMENCING CONSTRUCTION

HYDRAULIC ELEMENTS

LOCATION	STATION FROM	STATION TO	Q, C.F.S.	PIPE SIZE	S/ OR CONST. SLOPE	V	FREQUENCY
LINE A	1+88.00	8+76.76	183.8	48"	0.0074	8.8	25
"	3+77.76	5+84.74	98.5	48"	0.0048	7.9	25
"	5+84.74	8+18.52	35.7	48"	0.0044	7.0	25
LINE B	0+88.44	1+88.56	33.8	24"	0.0167	7.0	25
"	1+88.56	2+83.31	18.1	24"	0.0673	6.1	25
"	2+83.31	5+51.77	15.6	24"	0.0048	4.9	25
"	5+51.77	5+88.93	12.1	18"	0.0555	7.6	25
"	5+88.93	6+39.66	8.6	18"	0.0371	3.8	25
LINE C	0+00	1+58.16	6.1	18"	0.0257	3.5	50

GENERAL NOTES:

1. ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. MEAN SEA LEVEL DATUM OF 1929. ALL WORK SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1976 EDITION" AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE COUNTY ENGINEER.
2. APPROVAL OF THIS PLAN BY THE COUNTY OF LOS ANGELES DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION, OR THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY, PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THIS NOTE APPLIES TO ALL SHEETS.
3. THE CONTRATOR SHALL NOTIFY THE CONSTRUCTION SECTION OF THE DESIGN DIV. BY TELEPHONE, 974-7283 AT LEAST 24 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT. THE CONTRACTOR SHALL SUBMIT A DEPOSIT FOR CONSTRUCTION INSPECTION TO THE COUNTY ENGINEER, 108 WEST 2ND STREET, LOS ANGELES, AT LEAST 24 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
4. ALL CONSTRUCTION JOINTS IN THE FOOTING OF SLABS AND WALLS SHALL BE IN THE SAME PLANE. NO STAGGERING OF JOINTS WILL BE PERMITTED.
5. NO CONCRETE SHALL BE PLACED UNTIL THE FORMS AND REINFORCING STEEL HAS BEEN PLACED, INSPECTED AND APPROVED.
6. TRANSVERSE REINFORCEMENT AND TRANSVERSE JOINTS SHALL BE PLACED AT RIGHT ANGLES (OR RADIAL) TO CONDUIT CENTERLINE EXCEPT AS OTHERWISE SHOWN ON THE DRAWINGS.
7. ALL CONCRETE SHALL BE PORTLAND CEMENT CONCRETE WITH AN ULTIMATE 28 DAYS COMPRESSIVE STRENGTH OF 3250 p.s.i.
8. ALL EXPOSED EDGES SHALL BE FINISHED WITH A 3/4" CHAMFER.
9. ALL STEEL ADJACENT TO FACE (OF CONCRETE SHALL HAVE 2½" CLEARANCE UNLESS OTHERWISE SPECIFIED.
10. REINFORCEMENT SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE STEEL AS PER A.S.T.M. A-615.
11. ALL BAR BENDS AND HOOKS SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE "MANUAL OF STANDARD PRACTICE".
12. DIMENSIONS FROM FACE OF CONCRETE TO STEEL ARE TO CENTERLINE OF STEEL UNLESS OTHERWISE NOTED.
13. ALL BACKFILLS AND FILLS TO BE USED AS SUBGRADE SHALL BE COMPACTED TO A RELATIVE DENSITY OF 90% UNLESS OTHERWISE SPECIFIED.
14. ALL STEEL THAT IS TO BE CONTINUOUS SHALL HAVE A MINIMUM LAP OF 30 BAR DIAMETERS OR 18", WHICHEVER IS GREATER.
15. ALL CATCH BASINS AND CONNECTOR PIPES BETWEEN CATCH BASINS TO BE INSPECTED BY THE COUNTY ROAD DEPARTMENT.
16. PIPE SHALL BE EMBEDDED 5 INCHES INTO ALL STRUCTURES INCLUDING INLET & HEADWALLS, UNLESS OTHERWISE SPECIFIED.
17. WHERE PIPE IS TO BE PLACED IN FILL, THE FILL SHALL BE COMPACTED TO A MINIMUM DEPTH OF 3 FEET ABOVE THE TOP OF PIPE PRIOR TO TRENCHING.
18. ALL BACKFILL AND FILL AROUND CLOSED CONDUIT IN STREET RIGHTS OF WAY SHALL BE BROUGHT UP TO SUBGRADE OF THE ROAD OR TO 2 FEET ABOVE THE TOP OF THE CONDUIT, WHICHEVER IS LESS. THE ROAD DEPARTMENT SHALL INSPECT ALL BACKFILL AND FILL ABOVE AFOREMENTIONED LIMITS. APPLICATION FOR AN ENGINEER OR INSPECTOR IN CONNECTION WITH THE WORK, SHALL BE MADE BY THE CONTRACTOR AT LEAST 24 HOURS BEFORE HIS SERVICE IS REQUIRED. CALL 256-31.
19. A PERMIT SHALL BE OBTAINED FROM THE ROAD DEPARTMENT AND SHALL BE SUBMITTED TO THE INSPECTOR PRIOR TO COMMENCING CONSTRUCTION WITHIN THEIR RIGHTS OF WAY.
20. ALL REINFORCED CONCRETE PIPE SHALL BE BEDDED IN ACCORDANCE WITH LOS ANGELES COUNTY ENGINEER CASE 4d BEDDING PER STANDARD DRAWING D-54 UNLESS OTHERWISE NOTED.
21. UNLESS OTHERWISE SHOWN, CONCRETE DIMENSIONS SHALL BE MEASURED VERTICALLY OR HORIZONTALLY AND PARALLEL OR AT RIGHT ANGLES (OR RADIAL) TO THE CENTER LINE OF CONSTRUCTION.
22. THIS STORM DRAIN WILL NOT BE ACCEPTED FOR MAINTENANCE UNTIL THE STREETS HAVE BEEN PAVED, MANHOLES BROUGHT TO GRADE, AND THE SYSTEM IS CLEANED TO THE SATISFACTION OF THE COUNTY ENGINEER.

RIPRAP NOTES

1. ROCKS FOR GROUTED RIPRAP SHALL BE GOOD QUALITY BROKEN CONCRETE AND/OR RIVER RUN ROCK. THE SMALLEST DIMENSION SHALL EXCEED 3 INCHES AND THE LARGEST DIMENSION SHALL NOT EXCEED 18 INCHES. THE LARGEST DIMENSION SHALL NOT EXCEED 4 TIMES THE SMALLEST DIMENSION.
2. THERE SHALL BE A GROUT BED OF AT LEAST 2 INCHES BENEATH THE FIRST LAYER OF ROCK. ALL THE VOIDS BETWEEN THE ROCKS SHALL BE FILLED WITH GROUT. MAXIMUM SPACING BETWEEN ROCKS SHALL BE 2 INCHES.
3. SURFACE ROCKS SHALL BE IMBEDDED FROM 1/2 TO 2/3 OF THEIR MAXIMUM DIMENSION.

NOTE: CONCRETE MAY BE SUBSTITUTED FOR THE GROUT.

PRIVATE ENGINEERS NOTICE TO CONTRACTORS

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THIS MAP.
THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THIS DRAWING.

Edward L. Pearson — REGISTERED CIVIL ENGINEER No. 9787 — 11-3-77 DATE

Standard Drawings

L.A. Co. Engr. Bedding	D-54

Automatic Flap Gate	2-D.192
Trans. Std. No 1	2-D.255
M.H. No 4	2-D.118
J.S. No 2	2-D.112
C.B. No 2	2-D.162
MH. No 1	2-D.102
C.B. No 3	2-D.163
T.S. No 3	2-D.186
Conc Collar	2-D.383
M.H. Frame & Cover	2-D.678
Conc. Ring & Reducer	2-D.107
Steps	2-D.99
Reinforcing Steel	2-D.171
Detail of C.B Opening	2-D.232
M.H. Frame & Cover	2-D.156
Protection Bar	2-D.175
Conn. to C.B	2-D.224
Reinforcing Steel	2-D.172
Headwall Fencing	2-D.180
Protection Barrier	8911-3
M.H. Safety Ladge	2-D.430

REVIEWED BY THE LOS ANGELES COUNTY ROAD DEPT.
BY: Van R Keesee DATE: 9-23-77

PLANS PREPARED BY:
E.L. PEARSON & ASSOCIATES
1033 N. REDONDO BEACH BLVD.
GARDENA, CALIFORNIA 90247
PHONE (213) 321-1515, (213) 329-1125
SIGNATURE: Edward L. Pearson R.C.E. NO. 9787

COUNTY OF LOS ANGELES, CALIFORNIA

STEPHEN J. KOONCE ACTING COUNTY ENGINEER

DESIGN DIVISION

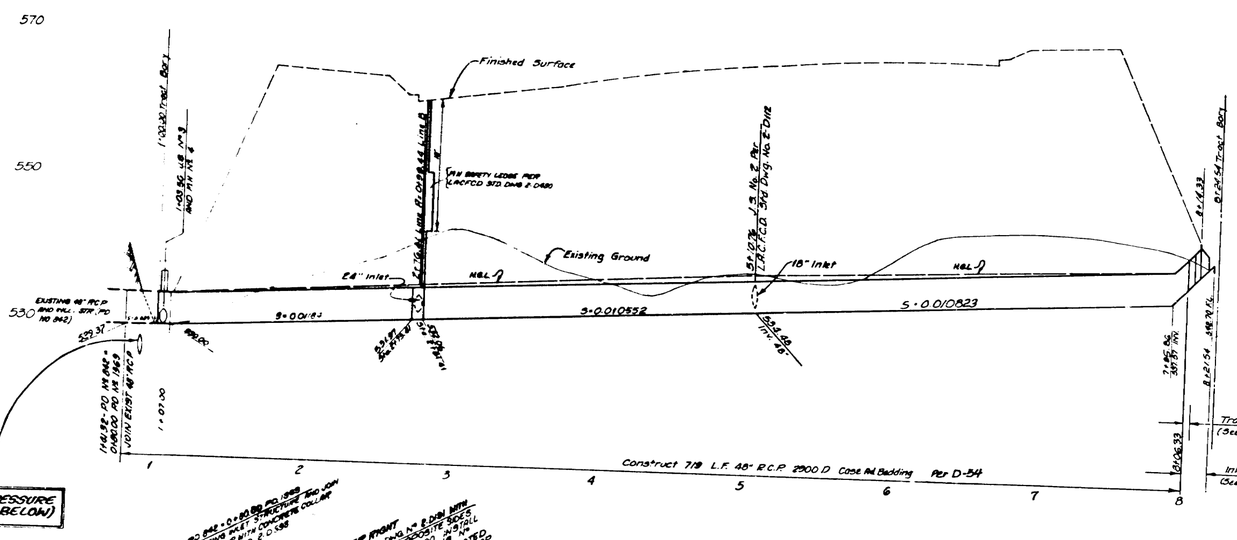
APPROVED BY: [signature] DIVISION ENGINEER DATE: 11-3-77

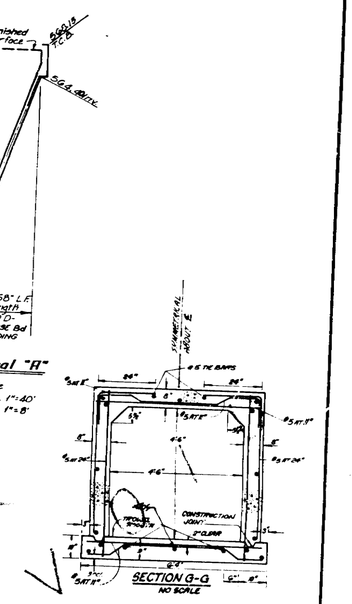
CHECKED BY: William Spamer R.C.E. NO. 7472 DATE: 11-3-77
OFFICE OF COUNTY ENGINEER

SHT 1 OF 1 SHTS

PF515457

STORM DRAIN PLANS IN TRACT No 31550 P.D. No 1369

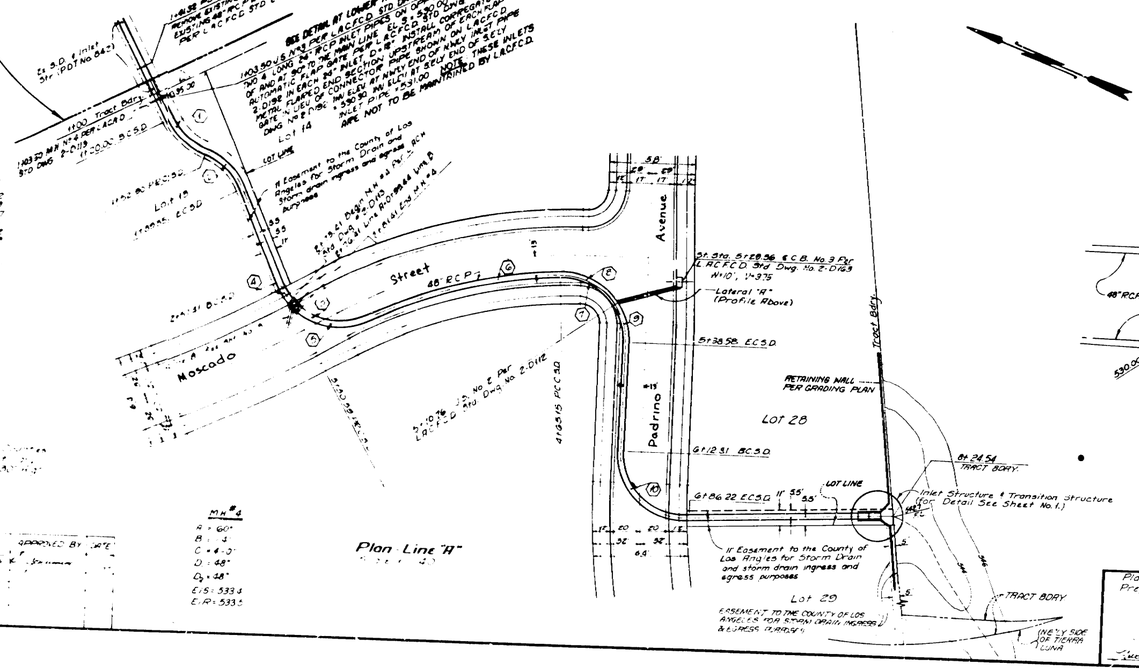




Lateral "A"
Scale
Horiz. 1"=40'
Vert. 1"=8'

Profile Scale
Horiz. 1"=40'
Vert. 1"=8'

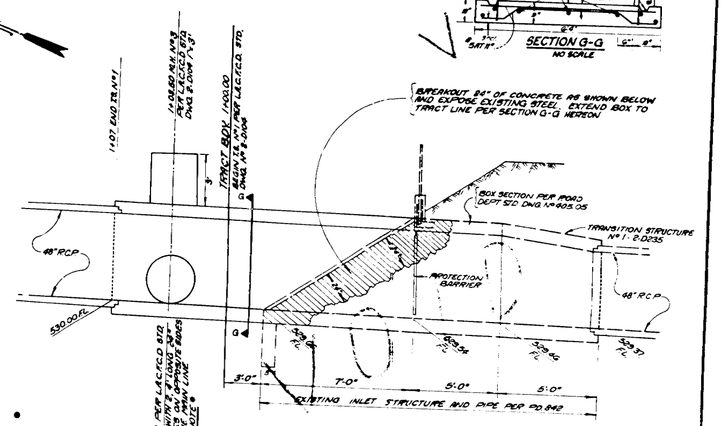
EXISTING 30" HIGH PRESSURE GAS LINE (SEE NOTE BELOW)



Storm Drain Curve Data

No.	Δ	R	L	T
①	4°49'24" RT	45'	52.90'	17.72'
②	4°49'24" RT	45'	52.90'	17.72'
③	90° RT	45'	70.69'	45.00'
④	90° LT	45'	70.69'	45.00'
⑤	23°11'44" RT	45'	18.00'	9.16'
⑥	23°11'44" RT	45'	18.00'	9.16'
⑦	90°00'00" RT	45'	70.69'	45.00'
⑧	90°00'00" LT	45'	70.69'	45.00'
⑨	90°00'00" RT	45'	70.69'	45.00'
⑩	90°00'00" LT	45'	70.69'	45.00'
⑪	90°00'00" RT	45'	70.69'	45.00'
⑫	90°00'00" LT	45'	70.69'	45.00'
⑬	90°00'00" RT	45'	70.69'	45.00'
⑭	90°00'00" LT	45'	70.69'	45.00'
⑮	90°00'00" RT	45'	70.69'	45.00'
⑯	90°00'00" LT	45'	70.69'	45.00'
⑰	90°00'00" RT	45'	70.69'	45.00'
⑱	90°00'00" LT	45'	70.69'	45.00'
⑲	90°00'00" RT	45'	70.69'	45.00'
⑳	90°00'00" LT	45'	70.69'	45.00'
㉑	90°00'00" RT	45'	70.69'	45.00'
㉒	90°00'00" LT	45'	70.69'	45.00'
㉓	90°00'00" RT	45'	70.69'	45.00'
㉔	90°00'00" LT	45'	70.69'	45.00'
㉕	90°00'00" RT	45'	70.69'	45.00'
㉖	90°00'00" LT	45'	70.69'	45.00'
㉗	90°00'00" RT	45'	70.69'	45.00'
㉘	90°00'00" LT	45'	70.69'	45.00'
㉙	90°00'00" RT	45'	70.69'	45.00'
㉚	90°00'00" LT	45'	70.69'	45.00'
㉛	90°00'00" RT	45'	70.69'	45.00'
㉜	90°00'00" LT	45'	70.69'	45.00'
㉝	90°00'00" RT	45'	70.69'	45.00'
㉞	90°00'00" LT	45'	70.69'	45.00'
㉟	90°00'00" RT	45'	70.69'	45.00'
㊱	90°00'00" LT	45'	70.69'	45.00'
㊲	90°00'00" RT	45'	70.69'	45.00'
㊳	90°00'00" LT	45'	70.69'	45.00'
㊴	90°00'00" RT	45'	70.69'	45.00'
㊵	90°00'00" LT	45'	70.69'	45.00'
㊶	90°00'00" RT	45'	70.69'	45.00'
㊷	90°00'00" LT	45'	70.69'	45.00'
㊸	90°00'00" RT	45'	70.69'	45.00'
㊹	90°00'00" LT	45'	70.69'	45.00'
㊺	90°00'00" RT	45'	70.69'	45.00'
㊻	90°00'00" LT	45'	70.69'	45.00'
㊼	90°00'00" RT	45'	70.69'	45.00'
㊽	90°00'00" LT	45'	70.69'	45.00'
㊾	90°00'00" RT	45'	70.69'	45.00'
㊿	90°00'00" LT	45'	70.69'	45.00'

MH #4
R = 60'
Δ = 3°
C = 4.0'
D = 48"
Q = 48"
E.I. = 533.4
E.O. = 533.5



DETAIL OF CONNECTION TO P.D. 842
NO SCALE

NOTE
El. = 530.00 Install automatic flap gate per L.A.C.F.C.D. Std. Dwg. No. 2 Duplex in each inlet, D=12". Install corrugated metal flared end section upstream of each flap gate in lieu of connector pipe shown on L.A.C.F.C.D. Std. Dwg. No. 2.0196 Inv. Elev. at Nerly end of Nerly inlet = 530.30 Inlet Elev. at S.E.ly end of S.E.ly inlet = 531.00

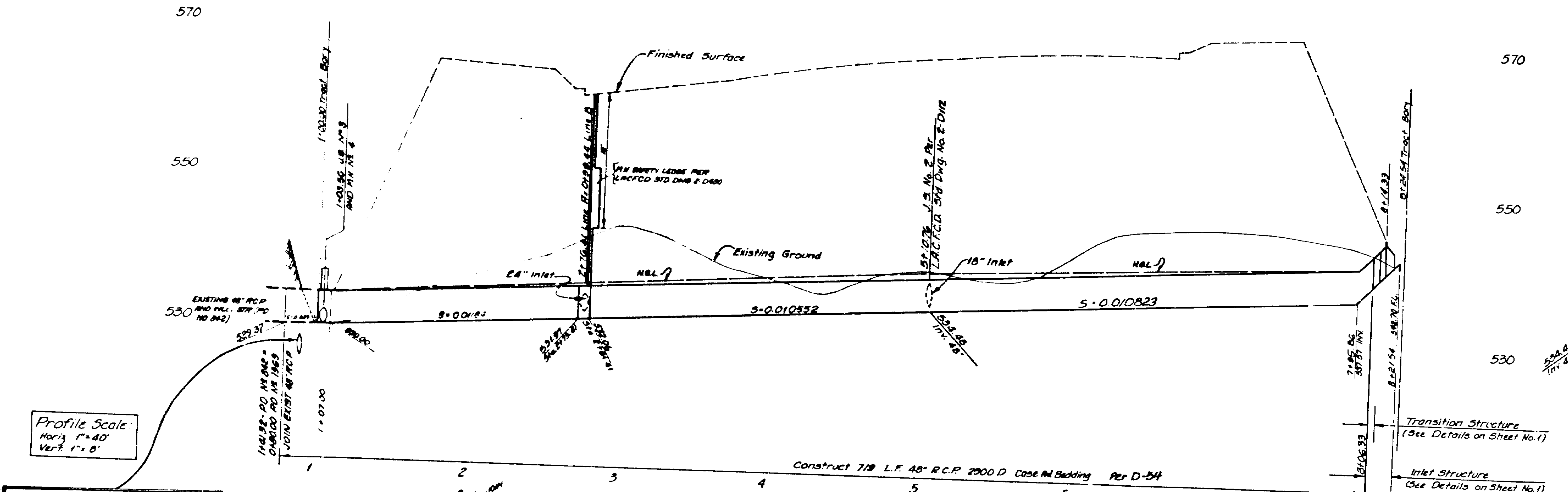
Plans Prepared By
E.L. Pearson & Associates
1655 W. Redondo Beach Blvd.
Gardena, California 90247
321-1515
Ward Pearson R.C.E. No. 9712

County of Los Angeles, California
STEP. J.J. KOONCE ACTING COUNTY ENGINEER
Design Division
Checked by Stephen Takamine R.C.E. No. 17712 Date 12-8-71
Asst. Chief of County Engineer

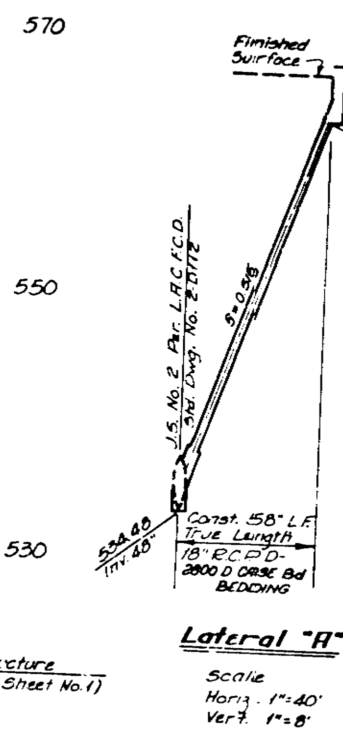
Sheet 1 of 1 Sheets

PF515458

STORM DRAIN PLANS IN TRACT Nº 31550 P.D. Nº 1369

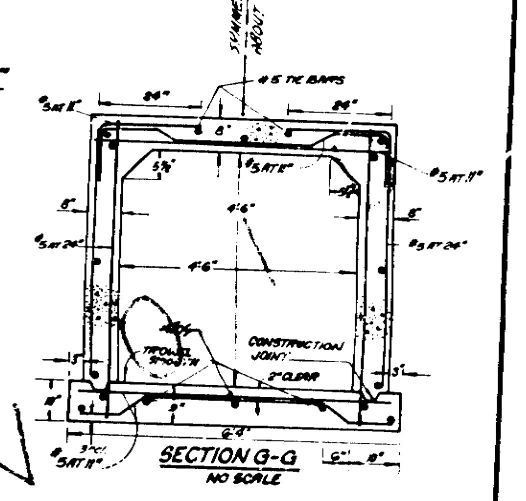


Profile Scale:
Horiz. 1" = 40'
Vert. 1" = 8'

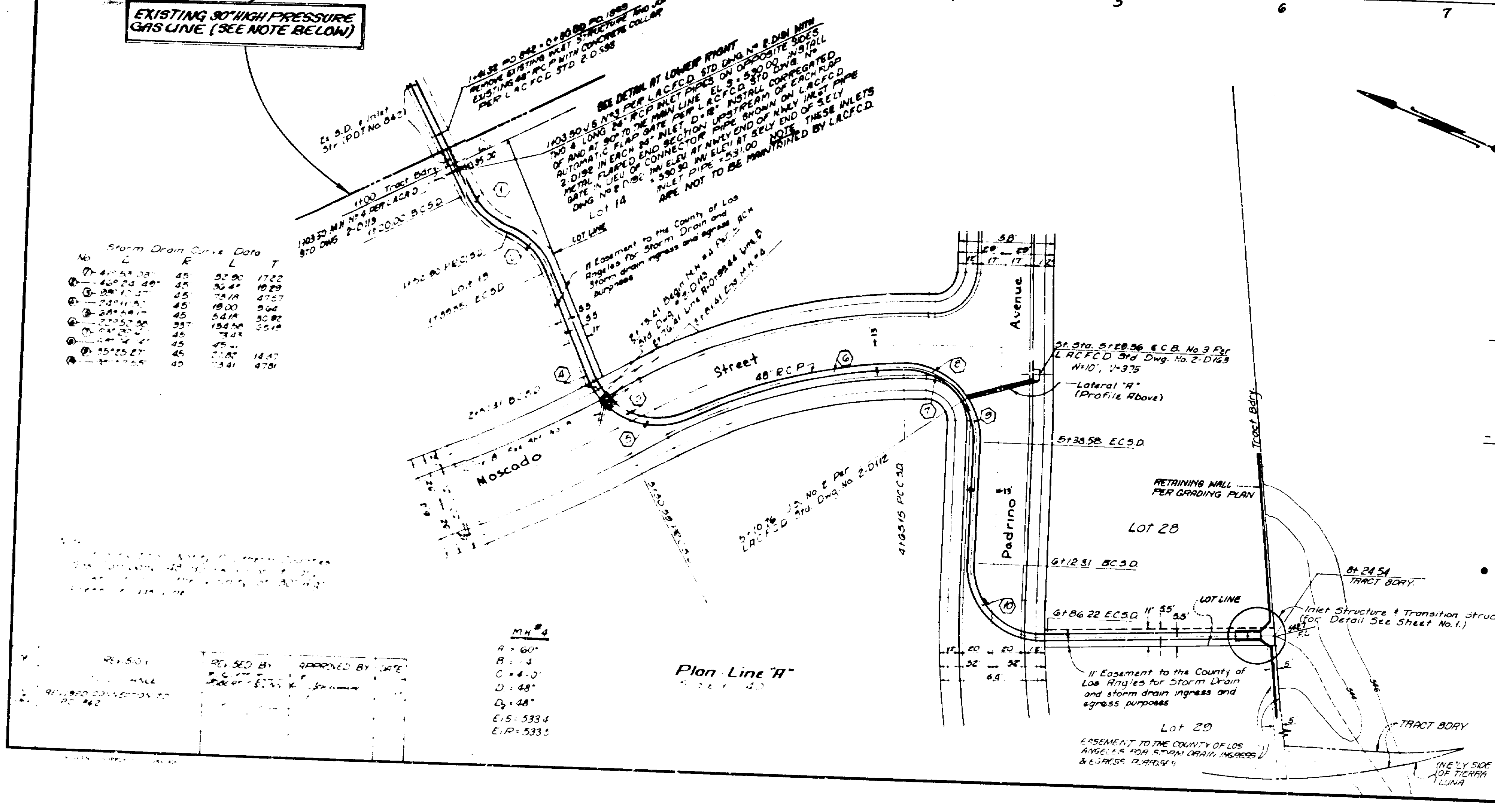


Lateral "A"

Scale
Horiz. 1" = 40'
Vert. 1" = 8'



SECTION G-G
NO SCALE



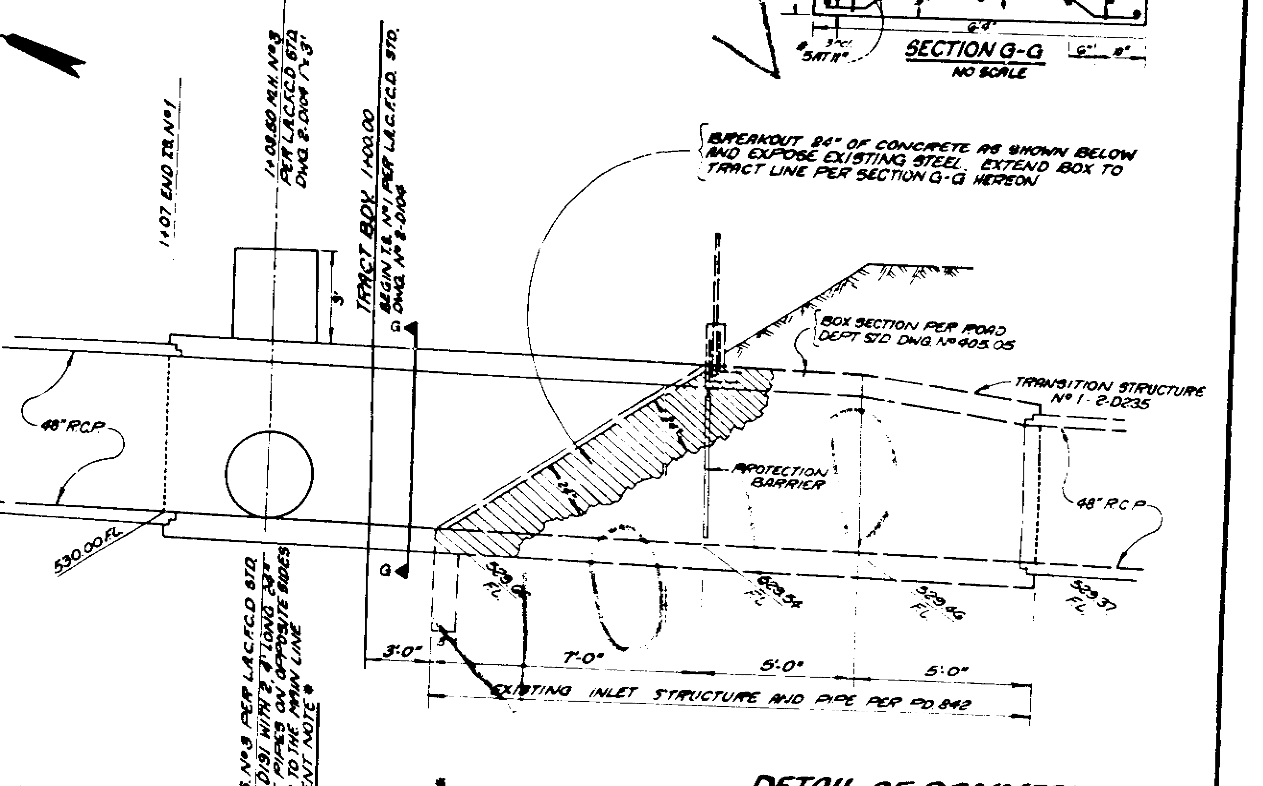
Storm Drain Curve Data

No	Δ	R	L	T
①	41°53'08"	45'	32.90	17.22
②	46°24'49"	45'	36.45	19.29
③	93°10'57"	45'	73.18	47.57
④	24°11'52"	45'	19.00	9.64
⑤	68°59'17"	45	54.18	30.92
⑥	22°52'58"	337'	134.56	35.19
⑦	[illegible]	45	73.43	
⑧	[illegible]	45	45.[illegible]	
⑨	35°25'27"	45	27.82	14.37
⑩	[illegible]	45	73.41	47.81

M H #4
A = 60"
B = 4'
C = 4'-0"
D = 48"
D₂ = 48"
E/S = 533.4
E/R = 533.5

Plan Line "A"
Scale 1" = 40'

	REVISION	REVISED BY	APPROVED BY	DATE
	[illegible]			
2	REVISED CONNECTION TO PD 842	[illegible]	[illegible]	



DETAIL OF CONNECTION TO P.D. 842

NO SCALE

NOTE*
E.L.S. = 530.00 INSTALL AUTOMATIC FLAP GATE PER L.A.C.F.C.D. STD. DWG. Nº 2-D192 IN EACH INLET, D = 12". INSTALL CORREGATED METAL FLARED END SECTION UPSTREAM OF EACH FLAP GATE IN LIEU OF CONNECTOR PIPE SHOWN ON L.A.C.F.C.D STD. DWG. Nº 2-D192 INV. ELEV. AT N.W'LY END OF N.W'LY INLET = 530.30 INLET ELEV. AT S.E'LY END OF S.E'LY INLET = 531.00

Plans
Prepared By
E.L. Pearson & Associates
1555 W. Redondo Beach Blvd.
Gardena, California - 90247
321-1515 329-4125
R.C.E. No [illegible]

County of Los Angeles, California
STEP. J. KOONCE ACTING COUNTY ENGINEER
Checked by [illegible] R.C.E. No [illegible] Design Division Office of County Engineer Date [illegible]

Sheet 2 of 4 Sheets

PF515458

BENCH MARK:

L+N WEST END CONC. HEADWALL 18' SOUTH ℄ WALNUT DRIVE + 60' EAST ℄ PRODUCTION WATER STREET

B.O. 1909 ELEVATION 308.390 (1970)

STORM DRAIN PLANS IN TRACT No. 31844 P.D. No. 1440

GENERAL NOTES (Cont'd)

26. A SOILS ENGINEER SHALL CERTIFY THAT ALL FILLS AND BACKFILLS OVER UNDERGROUND STORM DRAINS OUTSIDE OF ST. R/W HAVE BEEN COMPACTED OR CONSOLIDATED TO A 90% DENSITY. THIS CERTIFICATION SHALL BE SUBMITTED TO THE COUNTY ENGINEER PRIOR TO ACCEPTANCE OF THE WORK BY THE COUNTY.

27. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 7-1B, 4.1 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION IN REGARD TO SAFETY ORDERS.

28. THE CONTRACTOR SHALL CONFORM TO THE "MINIMUM PUBLIC SAFETY REQUIREMENTS" AS SHOWN ON LOS ANGELES COUNTY ENGINEER STANDARD S-2.

29. ALL PIPE SHALL BE PLACED IN A TRENCH IN NATURAL GROUND AND/OR COMPACTED FILL. THE GROUND LEVEL BEFORE THE TRENCHING SHALL BE AT LEAST 3 FEET ABOVE TOP OF PIPE ELEVATION, OR AT FINISH SURFACE ELEVATION, WHICHEVER IS LESS. ALL BACKFILL IN EASEMENTS SHALL BE COMPACTED TO THE DENSITY DETERMINED BY THE GRADING PLAN.

31. THE INSPECTOR MAY HAVE THE OPTION TO REQUIRE CONCRETE BACKFILL DURING CONSTRUCTION WHEN THE PIPE HAS LESS THAN ONE FOOT OF COVER AND IS SUBJECTED TO HEAVY EQUIPMENT TRAFFIC. THE CONCRETE BACKFILL SHALL CONSIST OF 1-3-5 MIX CEMENT CONCRETE POURED FROM WALL TO WALL OF TRENCH AND FROM BOTTOM OF TRENCH TO A MINIMUM DEPTH OF 6 INCHES OVER TOP OF PIPE.

32. SUBSECTION 7-8.1.1 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION IS AMENDED TO DELETE THE REQUIREMENT FOR SUBMISSION OF TRENCH SHORING PLANS TO THE AGENCY.

29. THE CONTRACTOR SHALL NOTIFY THE LACFCD AREA INSPECTOR AT 866-4600 24 HOURS PRIOR TO COMMENCING CONSTRUCTION.

30. LONGITUDINAL STEEL SHALL BE CONTINUOUS AND EXTEND THROUGH ALL CONSTRUCTION JOINTS EXCEPT TRANSVERSE JOINTS IN RECTANGULAR CHANNELS AND AROUND ALL CORNERS UNLESS OTHERWISE SHOWN.

31. AT THE BEGINNING AND END OF ALL POURS A LAYER OF REINFORCEMENT SHALL BE PLACED WITHIN 3 INCHES OF THE TRANVERSE CONSTRUCTION JOINTS.

32. UNLESS OTHERWISE SHOWN, TRANSVERSE JOINT KEYWAYS IN BOTH SLABS AND WALLS SHALL BE PLACED AT THE END OF EACH POUR BUT THE SPACING THEREOF SHALL NOT EXCEED 50 FEET NOR BE LESS THAN 10 FEET.

33. TRANSVERSE CONSTRUCTION JOINTS SHALL NOT BE PLACED WITHIN 30 INCHES OF MANHOLE OR JUNCTION STRUCTURE OPENINGS.

HYDRAULIC ELEMENTS

LOCATION	STATION FROM	STATION TO	Q C.F.S.	PIPE SIZE	CONST. SLOPE	V FT/SEC	FREQUENCY
LINE A	100.00	5+10.93	27.0	24"	0.1334	25	50 YR.
	5+10.93	5+33.66	13.3	24"	0.04339	14	50 YR.
	5+33.66	6+63.87	7.4	24"	0.0401	14	50 YR.

34. ADD ½" CONCRETE TO PIPE INVERT WHERE VELOCITY IS 20 FPS OR ABOVE.

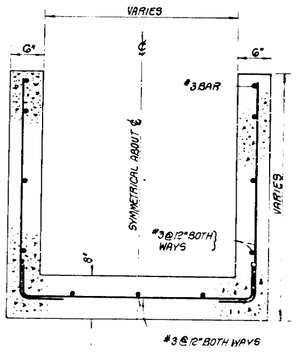
GENERAL NOTES:

1. ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. MEAN SEA LEVEL DATUM OF 1929. ALL WORK SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1976 EDITION," AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE COUNTY ENGINEER.
2. APPROVAL OF THIS PLAN BY THE COUNTY OF LOS ANGELES DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION, OR THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY, PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THIS NOTE APPLIES TO ALL SHEETS.
3. THE CONTRATOR SHALL NOTIFY THE *ENVIRONMENTAL DEVELOPMENT* DESIGN DIV. BY TELEPHONE, 974-7283 AT LEAST 24 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT. THE CONTRACTOR SHALL SUBMIT A DEPOSIT FOR CONSTRUCTION INSPECTION TO THE COUNTY ENGINEER, *320 S. VERMONT* LOS ANGELES, AT LEAST 24 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
4. ALL CONSTRUCTION JOINTS IN THE FOOTING OF SLABS AND WALLS SHALL BE IN THE SAME PLANE. NO STAGGERING OF JOINTS WILL BE PERMITTED.
5. NO CONCRETE SHALL BE PLACED UNTIL THE FORMS AND REINFORCING STEEL HAS BEEN PLACED, INSPECTED AND APPROVED.
6. TRANSVERSE REINFORCEMENT AND TRANSVERSE JOINTS SHALL BE PLACED AT RIGHT ANGLES (OR RADIAL) TO CONDUIT CENTERLINE, EXCEPT AS OTHERWISE SHOWN ON THE DRAWINGS.
7. ALL CONCRETE SHALL BE PORTLAND CEMENT CONCRETE WITH AN ULTIMATE 28 DAYS COMPRESSIVE STRENGTH OF 3000 p.s.i. UNLESS OTHERWISE NOTED.
8. ALL EXPOSED EDGES SHALL BE FINISHED WITH A 3/4" CHAMFER.
9. ALL STEEL ADJACENT TO FACE OF CONCRETE SHALL HAVE 2½" CLEARANCE UNLESS OTHERWISE SPECIFIED.
10. REINFORCEMENT SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE STEEL AS PER A.S.T.M. A-615- GRADE 40 FOR 3000 P.S.I. CONCRETE AND GRADE 60 FOR 4000 PSI CONCRETE.
11. ALL BAR BENDS AND HOOKS SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE "MANUAL OF STANDARD PRACTICE".
12. DIMENSIONS FROM FACE OF CONCRETE TO STEEL ARE TO CENTERLINE OF STEEL UNLESS OTHERWISE NOTED.
13. ALL BACKFILLS AND FILLS TO BE USED AS SUBGRADE SHALL BE COMPACTED TO A RELATIVE DENSITY OF 90% UNLESS OTHERWISE SPECIFIED.
14. ALL STEEL THAT IS TO BE CONTINUOUS SHALL HAVE A MINIMUM LAP OF 30 BAR DIAMETERS OR 12", WHICHEVER IS GREATER.
15. ALL CATCH BASINS AND CONNECTOR PIPES BETWEEN CATCH BASINS TO BE INSPECTED BY THE COUNTY ROAD DEPARTMENT.
16. PIPE SHALL BE EMBEDDED 5 INCHES INTO ALL STRUCTURES INCLUDING INLET & HEADWALLS, UNLESS OTHERWISE SPECIFIED.
17. WHERE PIPE IS TO BE PLACED IN FILL, THE FILL SHALL BE COMPACTED TO A MINIMUM DEPTH OF 3 FEET ABOVE THE TOP OF PIPE PRIOR TO TRENCHING.
18. ALL BACKFILL AND FILL AROUND CLOSED CONDUIT IN STREET RIGHTS OF WAY SHALL BE BROUGHT UP TO SUBGRADE OF THE ROAD OR TO 2 FEET ABOVE THE TOP OF THE CONDUIT, WHICHEVER IS LESS. THE ROAD DEPARTMENT SHALL INSPECT ALL BACKFILL AND FILL ABOVE AFOREMENTIONED LIMITS. APPLICATION FOR AN ENGINEER OR INSPECTOR IN CONNECTION WITH THE WORK, SHALL BE MADE BY THE CONTRACTOR AT LEAST 24 HOURS BEFORE HIS SERVICE IS REQUIRED. CALL 226-8150.
19. A PERMIT SHALL BE OBTAINED FROM THE ROAD DEPARTMENT AND SHALL BE SUBMITTED TO THE INSPECTOR PRIOR TO COMMENCING CONSTRUCTION WITHIN THEIR RIGHTS OF WAY.
20. ALL REINFORCED CONCRETE PIPE SHALL BE BEDDED IN ACCORDANCE WITH LOS ANGELES COUNTY ENGINEER CASE Ad BEDDING PER STANDARD DRAWING D-54, UNLESS OTHERWISE NOTED.
21. UNLESS OTHERWISE SHOWN, CONCRETE DIMENSIONS SHALL BE MEASURED VERTICALLY OR HORIZONTALLY AND PARALLEL OR AT RIGHT ANGLES (OR RADIAL) TO THE CENTER LINE OF CONSTRUCTION.
22. THIS STORM DRAIN WILL NOT BE ACCEPTED FOR MAINTENANCE UNTIL THE STREETS HAVE BEEN PAVED, MANHOLES BROUGHT TO GRADE, AND THE SYSTEM IS CLEANED TO THE SATISFACTION OF THE COUNTY ENGINEER.

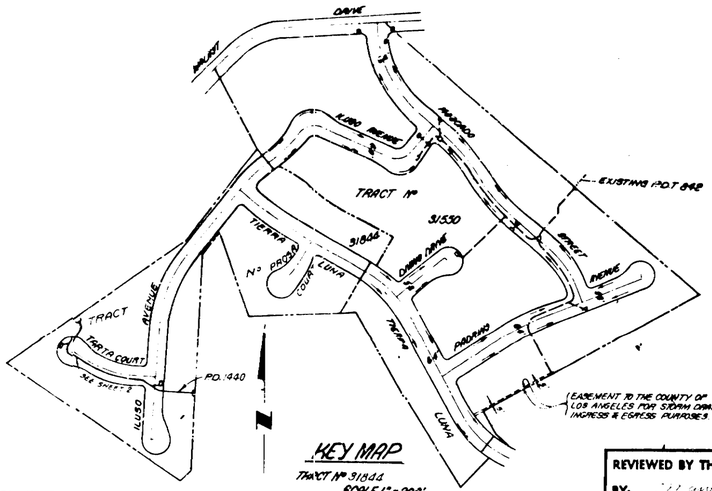
RIPRAP NOTES

1. ROCKS FOR GROUTED RIPRAP SHALL BE GOOD QUALITY BROKEN CONCRETE AND/OR RIVER RUN ROCK. THE SMALLEST DIMENSION SHALL EXCEED 3 INCHES AND THE LARGEST DIMENSION SHALL NOT EXCEED 18 INCHES. THE LARGEST DIMENSION SHALL NOT EXCEED 4 TIMES THE SMALLEST DIMENSION.
2. THERE SHALL BE A GROUT BED OF AT LEAST 2 INCHES BENEATH THE FIRST LAYER OF ROCK. ALL THE VOIDS BETWEEN THE ROCKS SHALL BE FILLED WITH GROUT. MAXIMUM SPACING BETWEEN ROCKS SHALL BE 2 INCHES.
3. SURFACE ROCKS SHALL BE IMBEDDED FROM 1/2 TO 2/3 OF THEIR MAXIMUM DIMENSION.

NOTE: CONCRETE MAY BE SUBSTITUTED FOR THE GROUT.



SECTION A-A
INLET STRUCTURE AND OUTLET STRUCTURE
NO SCALE



KEY MAP
TRACT № 31844
SCALE 1" = 200'

"PF515605"

STANDARD DRAWINGS

LOS ANGELES COUNTY ENGINEER
BEDDING ---------- 0-54
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
M.H. No.1 ---------- 2-D-102
C.L. FENCE ---------- 2-D-180
M.H. Frame & Cover ---------- 2-D-178
Conc. Ring & Reducer ---------- 2-D-107
Steps ---------- 2-D-86
Reinforcing Steel ---------- 2-D-171
Detail of C.B. Opening ---------- 2-D-182
M.H. Frame & Cover ---------- 2-D-156
Protector Bar ---------- 2-D-175
Conn. to C.B. ---------- 2-D-224
Reinforcing Steel ---------- 2-D-172
C.B. No.3 ---------- 2-D163
CONCRETE COLLAR ---------- 2-D393

NO	REVISION	REVISED BY	APPROVED BY	DATE

REVIEWED BY THE LOS ANGELES COUNTY ROAD DEPT.
BY: [illegible] DATE: 2/6/79

PLANS PREPARED BY:
E.L. PEARSON & ASSOCIATES
1235 N. REDONDO BEACH BLVD.
GARDENA, CALIFORNIA 90247
PHONE (213) 321-1515, (213) 329-4185
SIGNATURE: Edward L Pearson R.C.E. NO. 9783

PRIVATE ENGINEERS NOTICE TO CONTRACTORS

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THIS MAP.
THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THIS DRAWING.

Edward L Pearson — 1-31-79
REGISTERED CIVIL ENGINEER No. 9783 — DATE

COUNTY OF LOS ANGELES, CALIFORNIA

STEPHEN J. KOONCE
COUNTY ENGINEER

ENVIRONMENTAL DEVELOPMENT DIVISION

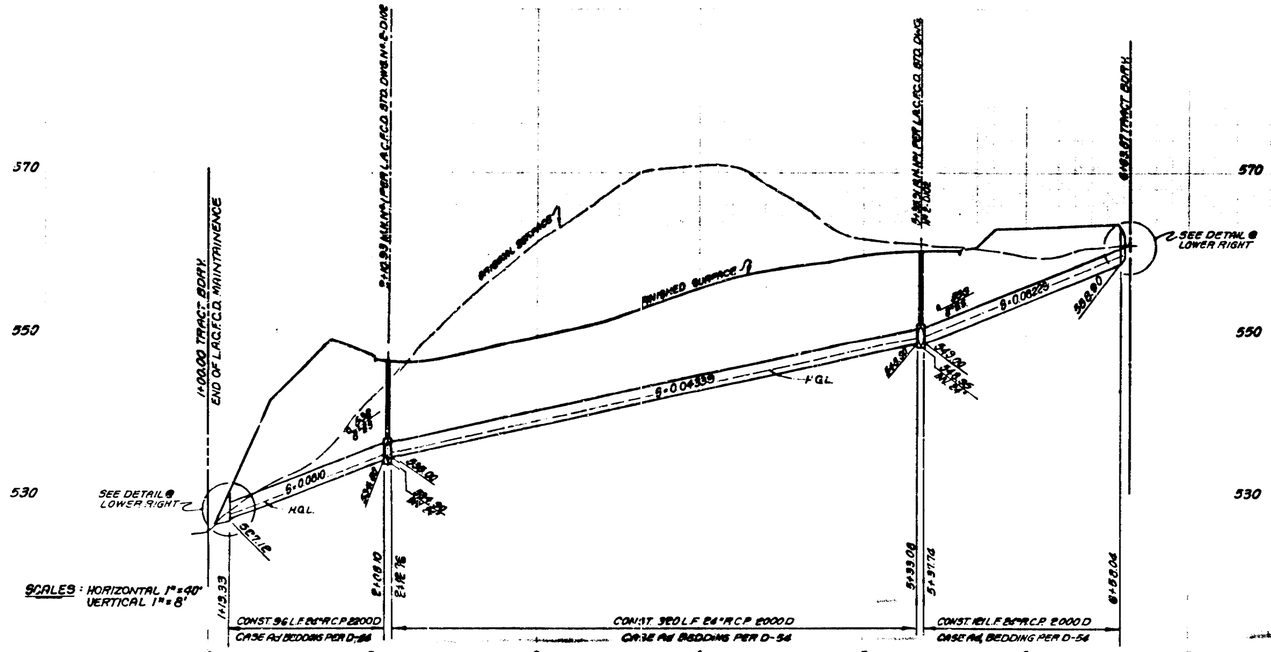
APPROVED BY: Carol Mitt DIVISION ENGR. DATE: 2/28/79

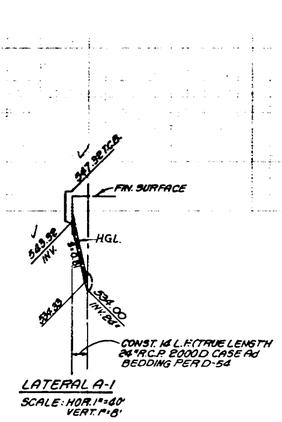
CHECKED BY: K O Murkin OFFICE OF COUNTY ENGINEER R.C.E. NO. 15745 DATE: 2/26/79

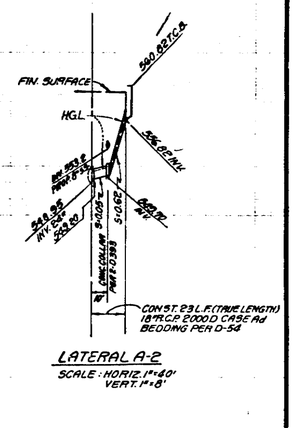
SHT 1 OF 2 SHTS

SOUTHERN CALIFORNIA BLUEPRINT CO. P.D. SHEET NO. 1 DATE 10/76

STORM DRAIN PLANS IN
TRACT No. 31844 P.D. No. 1440

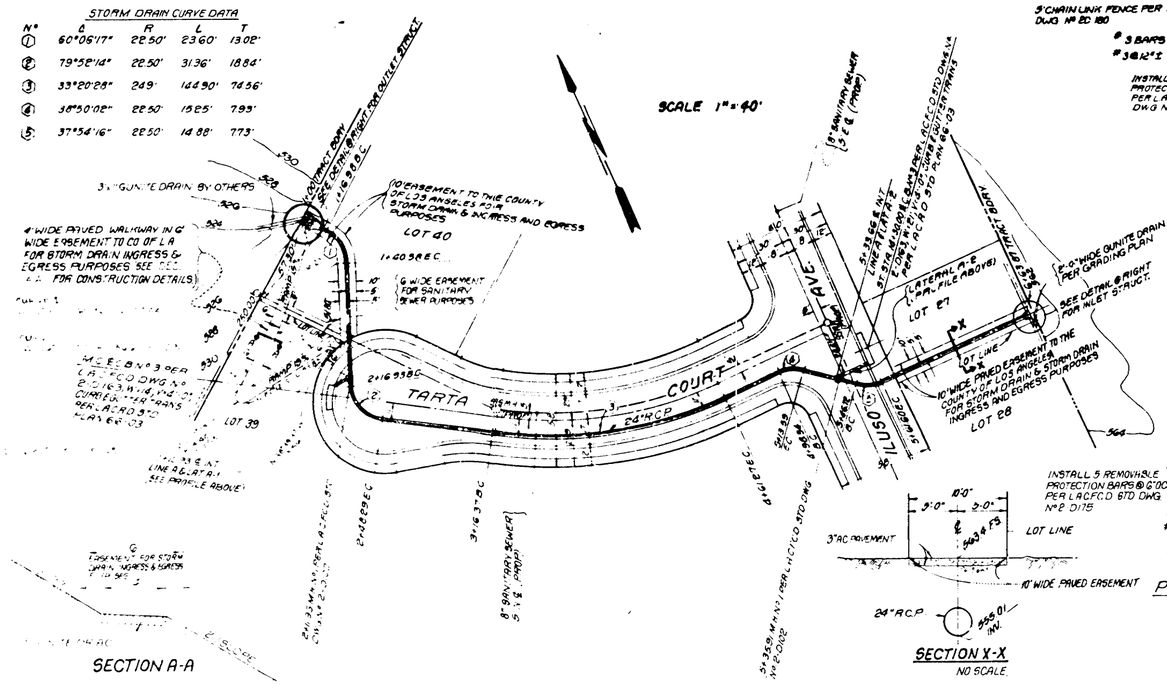


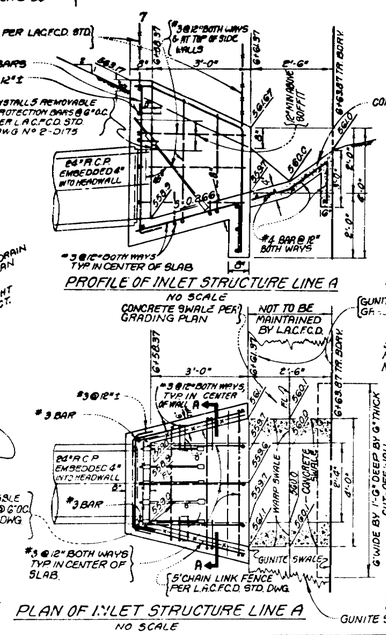


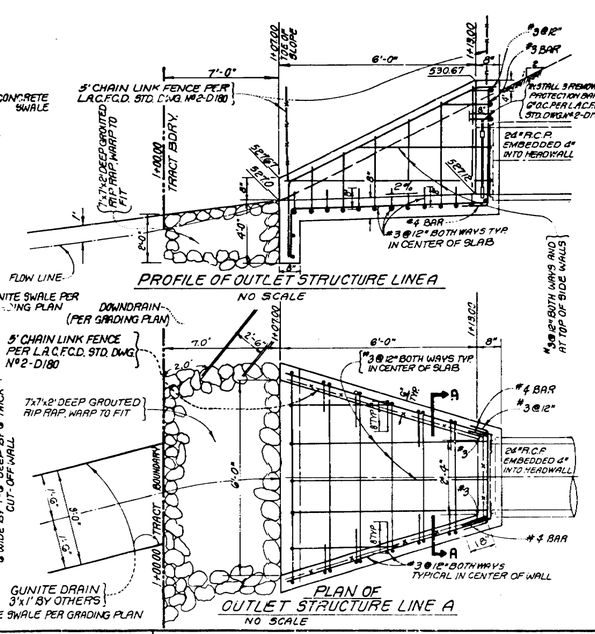


STORM DRAIN CURVE DATA

N°	Δ	R	L	T
1	60°06'17"	22.50'	23.60'	13.02'
2	79°52'14"	22.50'	31.36'	18.84'
3	33°20'28"	249'	144.90'	74.56'
4	38°50'08"	22.50'	15.25'	7.93'
5	37°54'16"	22.50'	14.88'	7.73'







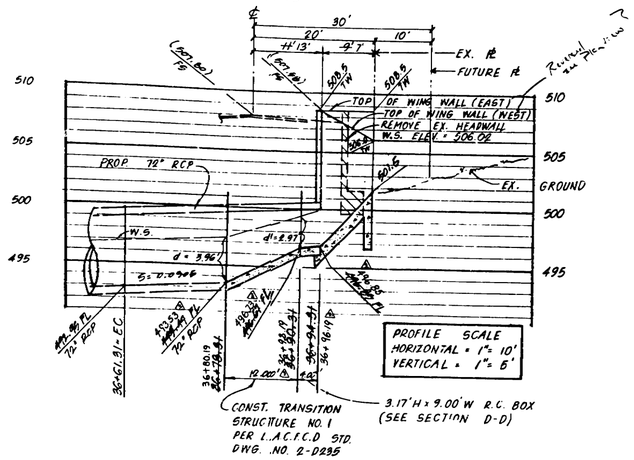
PLANS PREPARED BY
E.L. PEARSON & ASSOC.
1555 W. REDONDO BEACH BOULEVARD
GARDENA, CALIFORNIA 90247
(213) 321-1515, 329-9125
SIGNATURE: [signature] R.C.E. NO. 27837

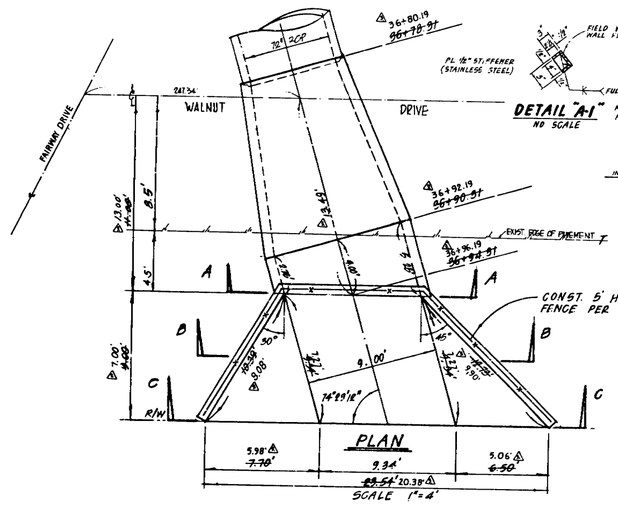
COUNTY OF LOS ANGELES, CALIFORNIA
COUNTY ENGINEER

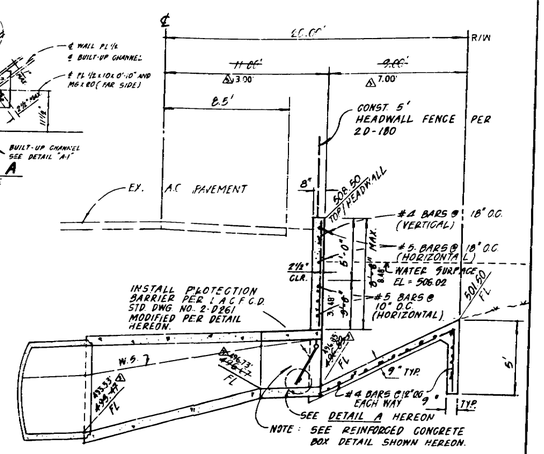
ENVIRONMENTAL DEVELOPMENT DIVISION
CHECKED BY: [signature] R.C.E. NO. 15782 DATE: 2-28-79
OFFICE OF COUNTY ENGINEER

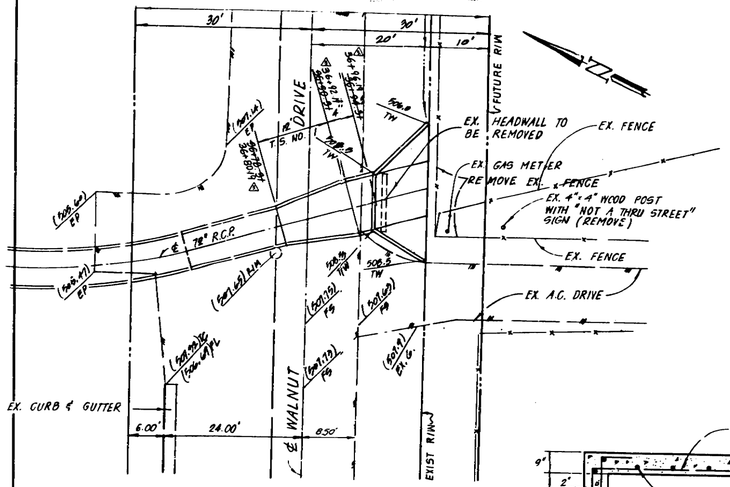
SHT 2 OF 2 SHTS

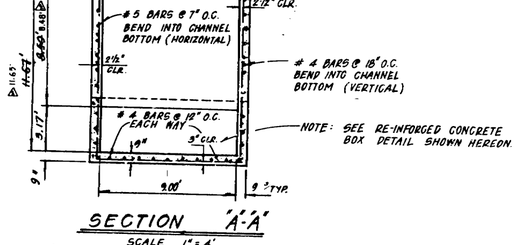
"PF515606"

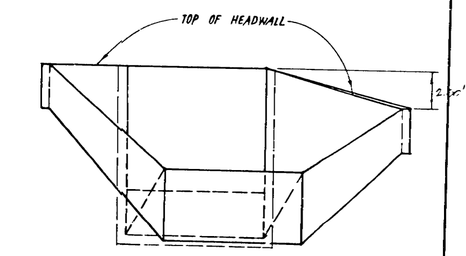


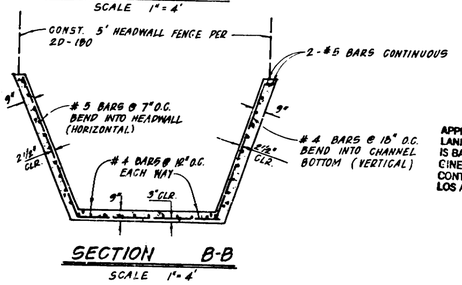


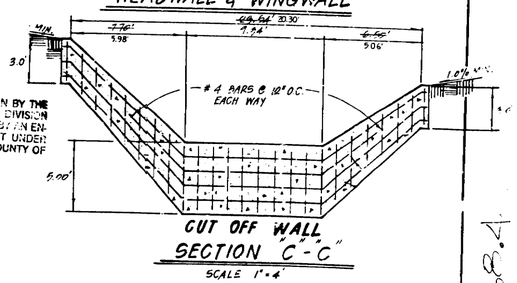


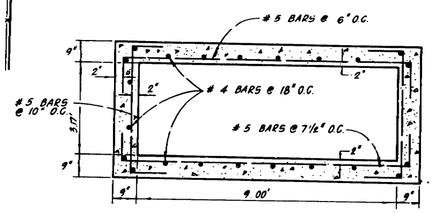












APPROVAL OF THIS PLAN BY THE LAND DEVELOPEMENT DIVISION IS BASED ON A REVIEW BY AN ENGINEERING CONSULTANT UNDER CONTRACT WITH THE COUNTY OF LOS ANGELES.

NO.	REVISION	BY	APPROVED	DATE
1	RELOCATED HEADWALL TO ACCOMODATE STREET WIDENING. CHANGED VERTICAL ALIGNMENT.			6/5/89

raab engineering inc.
1720 E. LINCOLN AVE
ANAHEIM, CA 92805
714 533-0840
MICHAEL RAAB RCE 24744

COUNTY OF LOS ANGELES CA.
THOMAS A. TIDEMANSON DIRECTOR OF PUBLIC WORKS
REVIEWED BY: W. Lind R.C.E. NO. 15515 DATE 1/19/89
PUBLIC ENGINEERING SERVICES

SHEET 4 OF 4 SHEETS

347-1968-4

PF516838

GENERAL NOTES

1. A permit shall be obtained and all fees and deposits for construction inspection shall be paid to the Department of Public Works at the Permit Counter, 900 South Fremont Avenue, 8th Floor, prior to starting work under this contract. Also, all other required permits, such as Road Excavation Permits, must be obtained prior to starting work.

2. The contractor shall contact the District Office listed on the "Application for Storm Drain Construction Inspection Form I" to arrange for an acceptable construction start date.

3. Approval of this plan by the County of Los Angeles does not constitute a representation to the accuracy of the location, or the existence or nonexistence of any underground utility, pipe or structure within the limits of this project. This note applies to all sheets.

4. All work shall be in accordance with the latest adopted edition of the "Standard Specifications for Public Works Construction," including supplements, and shall be prosecuted only in the presence of the Director of Public Works/City Engineer.

5. The contractor's attention is directed to Section 7-10.4.1 of the Standard Specifications for Public Works Construction in regard to safety orders.

6. Elevations are in feet above U.S.C. & G.S. Mean Sea Level Datum of 1929, unless otherwise indicated.

7. No concrete shall be placed until the forms and reinforcing steel have been placed, inspected and approved.

8. All structural concrete shall be Portland cement concrete with an ultimate 28 day compressive strength of 4000 psi unless otherwise noted.

9. Transverse reinforcement and transverse joints shall be placed at right angles (or radial) to the conduit centerline except as otherwise shown on the drawings.

10. All steel adjacent to face of concrete shall have a 2-1/2-inch clearance unless otherwise specified.

11. Reinforcement shall be deformed bars of intermediate grade steel, per ASTM A-615-Grade 60.

12. All bar bends and hooks shall conform to the American Concrete Institute "Manual of Standard practice."

13. Dimensions from face of concrete to steel are to centerline of steel unless otherwise noted.

14. All steel that is to be continuous shall have a minimum lap of 30 bar diameters or 18 inches, whichever is greater.

15. All construction joints in the footing or slabs and walls shall be in the same plane. No staggering of joints will be permitted.

16. All exposed edges shall be finished with a 3/4-inch chamfer.

17. Unless otherwise shown, concrete dimensions shall be measured vertically or horizontally and parallel or at right angles (or radial) to the center line of construction.

18. Concrete backfill is required when the pipe has less than one foot of cover. The concrete backfill shall consist of 1:3:5 mix, Portland cement concrete poured from wall to wall of trench and from bottom of trench to a minimum of 4 inches over the top of the pipe.

19. All pipes shall be placed in trench in natural ground and/or compacted fill. The ground level before the trenching shall be at least 3 feet above the top of the pipe elevation, or at finish surface elevation, whichever is less.

20. All backfill and fills outside of street right of way shall be compacted to 90 percent min. relative compaction of maximum density as determined by ASTM Soil Compaction Test D 1557-91 Method "D" unless otherwise specified. This shall be certified by a soils engineer. This certification shall be submitted to the City Engineer prior to acceptance of the work by the County.

21. All backfill and fills within street rights of way shall be compacted in accordance with City requirements unless otherwise noted and inspected by the City. The soil compaction shall be certified by a geotechnical engineer.

22. Pipe bedding shall be:
    According to Standard Plan No. 3080, Case III, except bell and spigot pipe which shall be Case II bedding, unless otherwise shown. "W" values shall be as specified on Standard Plan No. 3080 for Case III bedding, Notes 3 (a), 3 (b), and 3 (c). If the "W": value at the tip of the pipe is exceeded, the bedding shall be modified, and/or pipe of additional strength shall be provided. The proposed modification shall be approved by the Department.

23. Pipe shall be embedded 5 inches into all structures including inlet and head walls, unless otherwise specified.

24. "Unless otherwise specified in the profile on these plans, the pipe shall be manufactured with a minimum concrete cover over the steel in the invert of 0.75 inches for RCP up to 96 inches in diameter and 1.25 inches for pipe greater than 96 inches in diameter."

25. All catch basins within the dedicated street right of way shall be constructed per Standard Plans for Public Works Construction.

26. The contractor shall provide to the satisfaction of the City Engineer and the Director of Public Works a drainage system for contributory flows to be operable at all times until this storm drain system is accepted for maintenance. The design of the drainage system must be prepared under the direction of a Civil Engineer.

27. All references on this plan to the County Engineer, Road Department, or Flood Control District shall apply to the appropriate elements of the Department of Public Works.

28. Existing utilities shall be maintained in place by the contractor, unless otherwise noted.

29. Where the utilities are indicated on the Drawings to be supported, said supports shall be in accordance with Standard Plans for Public Works Construction No. 224 unless otherwise indicated.

30. All openings resulting from the cutting or partial removal of existing culverts, pipes or similar structures shall be sealed with 8 inches of Brick and Mortar or 6 inches of concrete, unless otherwise shown.

31. Manholes shall use the Standard Plans for Public Works Construction No. 630 for the "Frame and Cover" and No. 635 for the "Standard Drop Step."

32. This storm drain will not be field accepted until the streets have been paved, manholes brought to grade, and the system cleaned to the satisfaction of the Director of Public Works.

33. A NPDES Permit from the Regional Water Quality Control Board is required before any discharge of non-storm water into the storm drain is allowed.

34. The latest revised standard plan or drawing shall be used unless otherwise noted.

STORMWATER POLLUTION CONTROL REQUIREMENTS FOR STORM DRAIN CONSTRUCTION

A. NOTES:

1. Eroded sediments and other pollutants must be retained on site and may not be transported from the site via sheet flow, swales, area drains, natural drainage courses, or wind.

2. Stockpiles of earth and other construction related materials must be protected from being transported from the site by the forces of wind or water.

3. Fuels, oils, solvents, and other toxic materials must be stored in accordance with their listing and are not to contaminate the soil and surface waters. All approved storage containers are to be protected from the weather. Spills must be cleaned up immediately and disposed of in a proper manner. Spills may not be washed into the drainage system.

4. Excess or waste concrete may not be washed into the public way or any other drainage system. Provisions shall be made to retain concrete wastes on site until they can be disposed of as solid waste.

5. Trash and construction-related solid wastes must be deposited into a covered receptacle to prevent contamination of rainwater and dispersal by wind.

6. Sediments and other materials may not be tracked from the site by vehicle traffic. The construction entrance roadways must be stabilized so as to inhibit sediments from being deposited into the public way. Accidental depositions must be swept up immediately and may not be washed down by rain or other means.

7. Any slopes with disturbed soils or denuded of vegetation must be stabilized so as to inhibit erosion by wind and water.

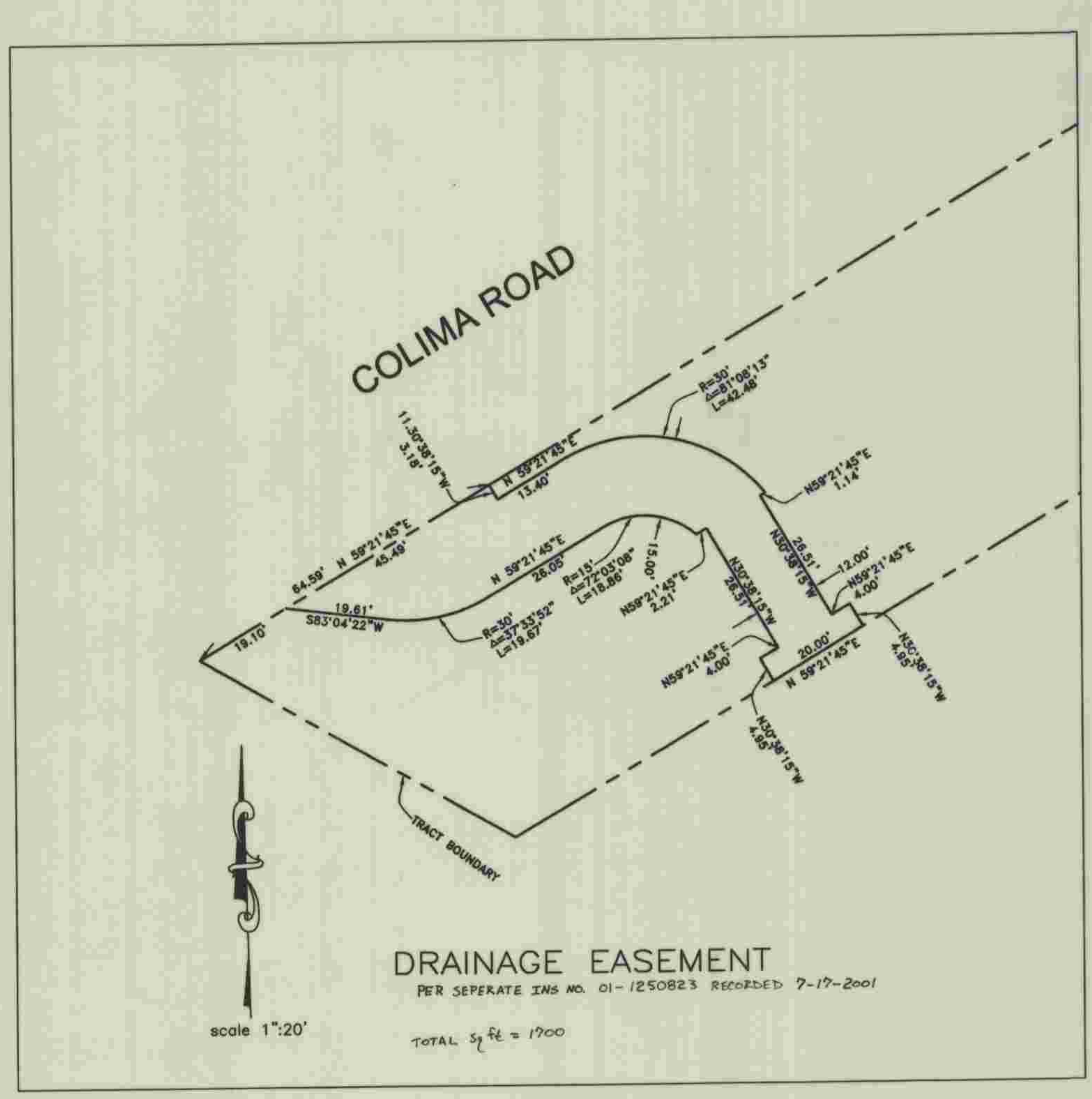
B. The following BMPs as outlined in, but not limited to, the Best Management Practice Handbook, California Stormwater Quality Task Force, Sacramento, California 1993, or the latest revised edition, may apply during construction (additional measures may be required if deemed appropriate by inspector):

CA001 – DEWATERING OPERATIONS
CA002 – PAVING OPERATIONS
CA003 – STRUCTURE CONSTRUCTION AND PAINTING
CA010 – MATERIAL DELIVERY AND STORAGE
CA012 – SPILL PREVENTION AND CONTROL
CA020 – SOLID WASTE MANAGEMENT
CA021 – HAZARDOUS WASTE MANAGEMENT
CA023 – CONCRETE WASTE MANAGEMENT
CA030 – VEHICLE AND EQUIPMENT CLEANING
CA031 – VEHICLE AND EQUIPMENT FUELING
CA032 – VEHICLE AND EQUIPMENT MAINTENANCE
CA040 – EMPLOYEE/SUBCONTRACTOR TRAINING
ESC01 – SCHEDULING
ESC02 – PRESERVATION OF EXISTING VEGETATION
ESC10 – SEEDING AND PLANTING
ESC11 – MULCHING
ESC20 – GEOTEXTILES AND MATS
ESC21 – DUST CONTROLS
ESC22 – TEMPORARY STREAM CROSSING
ESC23 – CONSTRUCTION ROAD STABILIZATION
ESC24 – STABILIZED CONSTRUCTION ENTRANCE
ESC30 – EARTH DIKE
ESC31 – TEMPORARY DRAINS AND SWALES
ESC32 – SLOPE DRAIN
ESC40 – OUTLET PROTECTION
ESC41 – CHECK DAMS
ESC50 – SILT FENCE
ESC51 – STRAW BALE BARRIERS
ESC52 – SAND BAG BARRIER
ESC53 – BRUSH OR ROCK FILTER
ESC54 – STORM DRAIN INLET PROTECTION

HYDRAULIC ELEMENTS

50 YR. FREQUENCY

LINE	PIPE REACH		Q (CFS)	SECTION	VELOCITY (FPS)	REMARKS
	FROM STA.	TO STA.				
A	1+00	2+03	100	42" RCP	10.40	



DRAINAGE EASEMENT

PER SEPERATE INS NO. 01-1250823 RECORDED 7-17-2001

TOTAL Sq ft = 1700

PF559861

NO.	REVISION	REVISED BY	APPROVED BY	DATE

REVIEWED LAND DEVELOPMENT DIVISION
BY ____ 6-19-01
SUBDIVISION PLAN CHECKING SECTION DATE

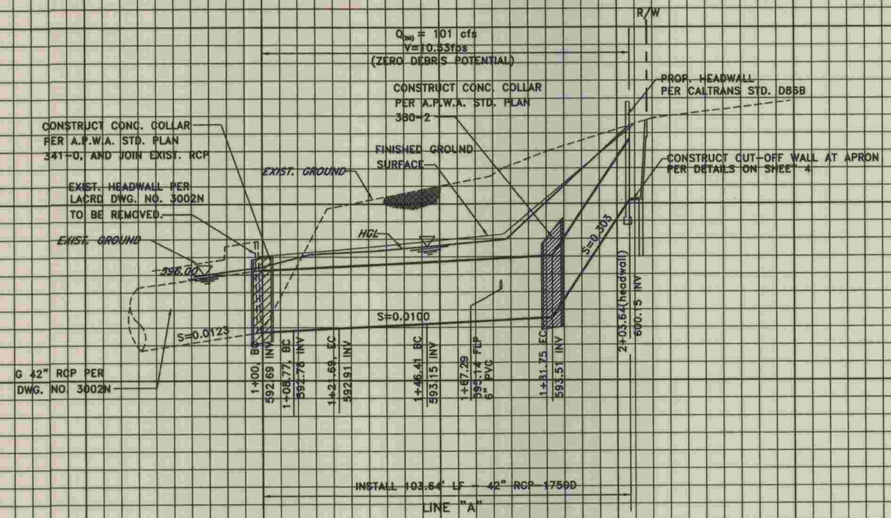
HONG CAO
No. 047118
CIVIL
PROJECT ENGINEER DATE

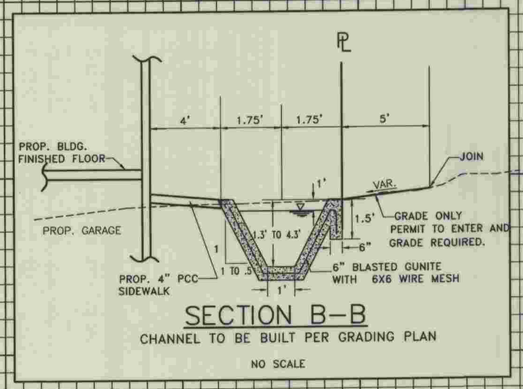
STORM DRAIN PLANS IN
TRACT NO. 44303 P.D. NO. 2377
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

SY DEVELOPMENT, INC.
5114 DOREEN AVENUE
TEMPLE CITY, CA 91780
(626) 452-0572

TRACT NO.44303 | DWG | SHEET 2 OF 4

SCALE: HOR. 1"= 20'
VERT. 1"= 4'

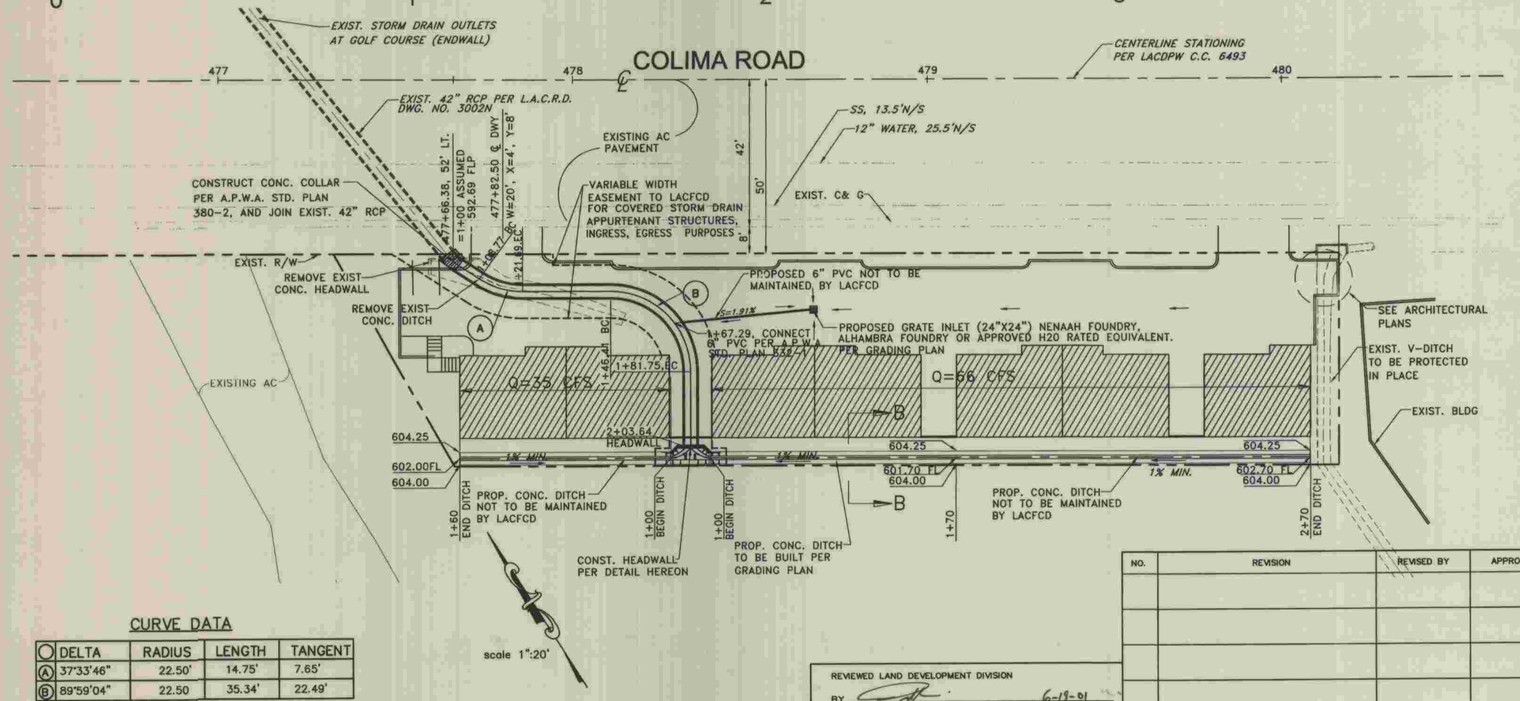


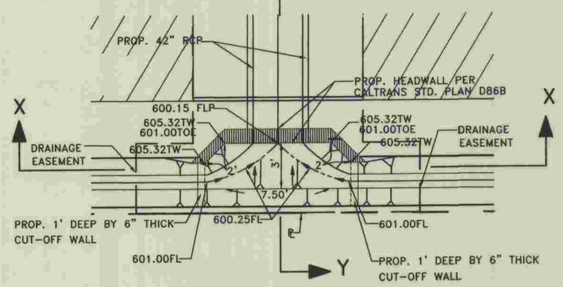


SECTION B-B

CHANNEL TO BE BUILT PER GRADING PLAN

NO SCALE





HEADWALL DETAIL

NO SCALE

(PER CALTRANS STD. D86B TYPE A WINGWALL)
CONNECTION BETWEEN WINGWALL AND GUNITE OPEN CHANNEL SHALL BE BY EXTENDING THE HORIZONTAL REINFORCEMENT FROM THE CONC. WINGWALL INTO THE OPEN CHANNEL A MINIMUM OF 18" IN ALL DIRECTIONS. (SEE SHEET 4)

CURVE DATA

◯	DELTA	RADIUS	LENGTH	TANGENT
A	37°33'46"	22.50'	14.75'	7.65'
B	89°59'04"	22.50	35.34'	22.49'

REVIEWED LAND DEVELOPMENT DIVISION
BY _____ 6-19-01
SUBDIVISION PLAN CHECKING SECTION DATE

NO.	REVISION	REVISED BY	APPROVED BY	DATE

REGISTERED PROFESSIONAL ENGINEER
HONG CHU
No. 047118
CIVIL
STATE OF CALIFORNIA
6/14/01
PROJECT ENGINEER DATE

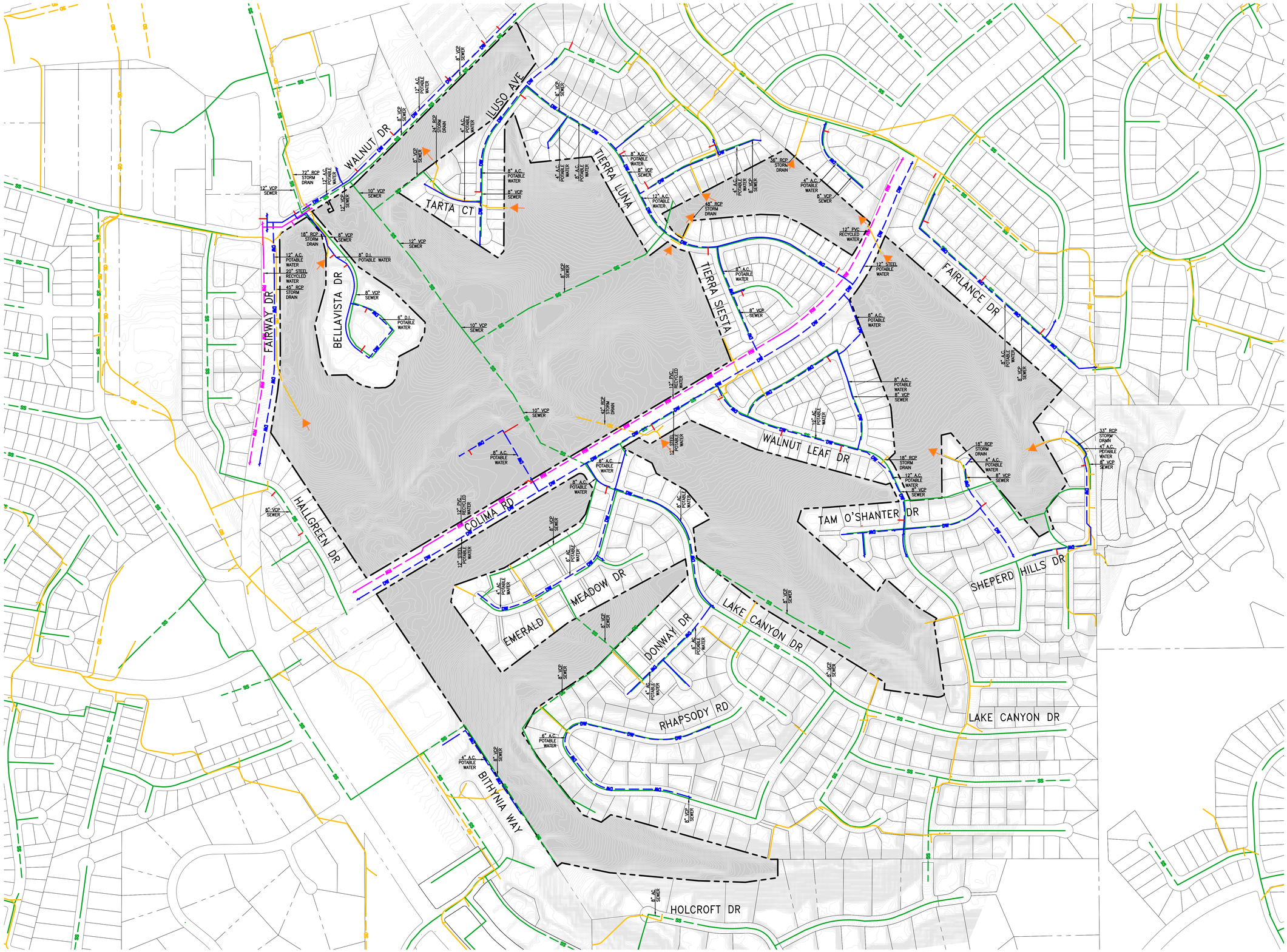
STORM DRAIN PLANS IN TRACT No. 44303 P.D. No. 2377

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

SY DEVELOPMENT, INC.
5114 DOREEN AVENUE
TEMPLE CITY, CA 91780
(626) 452-0572

DWG | SHEET 3 OF 4

PF5598B2



LEGEND

- SS — EXISTING SEWER MAIN
- SD — EXISTING STORM DRAIN
- DW — EXISTING POTABLE WATER MAIN
- RW — EXISTING RECYCLED WATER MAIN
- FW — EXISTING FIREWATER LATERAL
- PARCELS WITH POTENTIAL DEVELOPMENT

ROYAL VISTA PROJECT

EXISTING UTILITY INFRASTRUCTURE
ROWLAND HEIGHTS, CA

Understood drainage routings from AJW site visit 1-11-2021

200' 0' 100' 200' 400'

SCALE: 1" = 200'

FUSCOE ENGINEERING
600 Wilshire Blvd., Suite 1470, Los Angeles, California 90017
tel 213.988.8802 ◦ fax 213.988.8803 ◦ www.fuscoe.com

F:\Projects\662\VOA1\Exhibits\662-00Exh - Existing Utility Infrastructure.dwg (1/11/2021 12:02 PM) Plotted by: Alex Flores

Appendix 4

Impervious Area Calculations

ROYAL VISTA REDEVELOPMENT - PROPOSED CONDITION COMPOSITE IMPERVIOUS CALCULATIONS															
Lot Number	Total Gross Lot Area (acres)	Total Net Lot Area (after street dedications) (acres)	SF residential site area (acres)	Duplex/ Triplex/ Townhome residential site area (acres)	street dedication area (acres)	greenbelt area (acres)	offsite slopes (acres)	proposed park (acres)	impervious residential site area (Acres) (42% for SF) or 55% for Duplex/Triplex/ Townhome) impervious per Appendix D of LA Hydrology Manual)	Impervious street dedicaton area (Acres)(91% per Appendix D of LA Hydrology Manual)	Impervious greenbelt area (Acres)(2% per Appendix D of LA Hydrology Manual)	Impervious offsite slopes (Acres)(2% per Appendix D of LA Hydrology Manual)	Impervious proposed park (10% per Appendix D of LA Hydrology Manual)	Total Lot Impervious Acres	Total Lot Percent Impervious (%)
1	31.6	31.6	19.6	4.7	0	7.3	0	0	10.8	0	0.146	0	0	11.0	35%
2	9.5	9.1	6.4	0.0	0.4	3.0	0	0	2.7	0.364	0.06	0	0	3.1	33%
3	6.0	5.8	0.0	4.3	0.2	1.8	0.8	0	2.4	0.182	0.036	0.016	0	2.6	35%
5	21.1	21.1	9.7	3.0	0	8.4	1.0	1.0	5.7	0	0.168	0.02	0.1	6.0	27%

Appendix 5

Existing HydroCalc Hydrology Calculations

Peak Flow Hydrologic Analysis

File location: C:/Users/susan williams/Desktop/Royal Vista Golf Course - Existing Condition Lot 1 - 25-Yr.pdf
Version: HydroCalc 1.0.2

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Existing Condition Lot 1 - 25-Yr
Area (ac)	31.6
Flow Path Length (ft)	1330.0
Flow Path Slope (vft/hft)	0.04
50-yr Rainfall Depth (in)	6.5
Percent Impervious	0.03
Soil Type	2
Design Storm Frequency	25-yr
Fire Factor	0
LID	False

8.7 acres to Tiera Luna
Q25 = 17.6 cfs

2.2 acres to Tarta Court
(then to PD 2192 in Walnut)
Q25 = 4.4 cfs

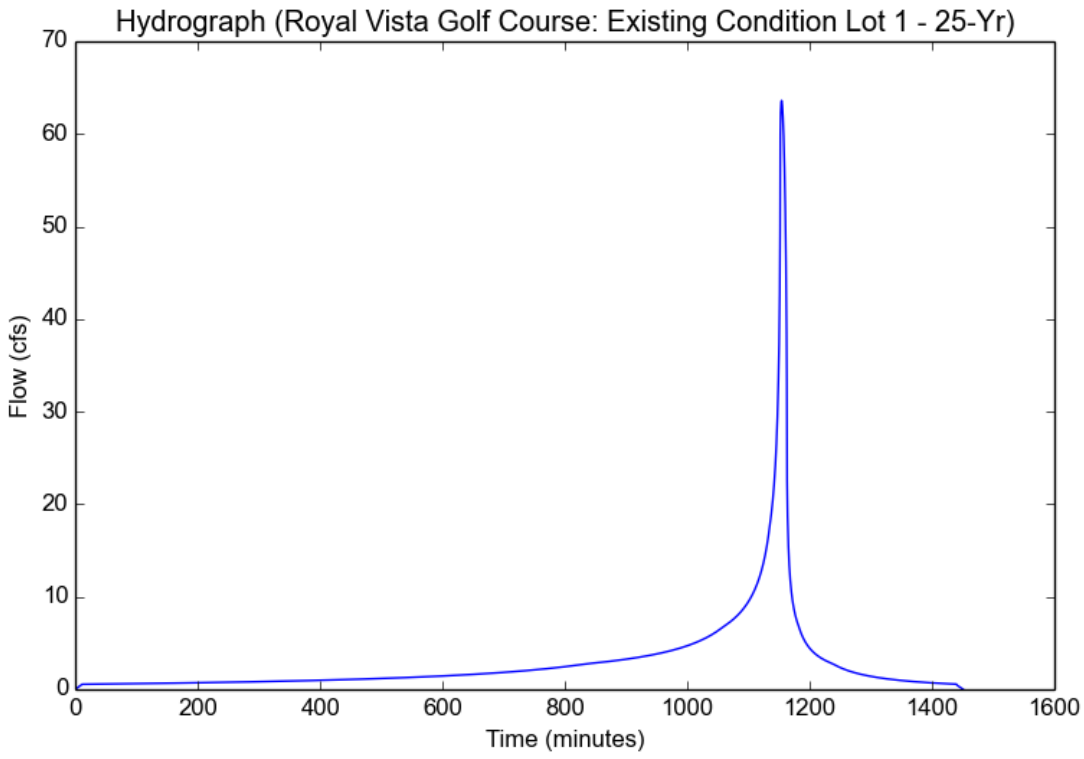
20.7 acres to PD 2192 in Walnut Drive
Q25 = 41.6 cfs

Total to PD 2192
= 22.9 acres, 46.0 cfs

Output Results

Modeled (25-yr) Rainfall Depth (in)	5.707
Peak Intensity (in/hr)	2.3506
Undeveloped Runoff Coefficient (Cu)	0.855
Developed Runoff Coefficient (Cd)	0.8563
Time of Concentration (min)	11.0
Clear Peak Flow Rate (cfs)	63.6044
Burned Peak Flow Rate (cfs)	63.6044
24-Hr Clear Runoff Volume (ac-ft)	6.0768
24-Hr Clear Runoff Volume (cu-ft)	264705.3892

2.01 cfs/acre



Peak Flow Hydrologic Analysis

File location: C:/Users/susan williams/Desktop/Royal Vista Golf Course - Existing Condition Lot 2 - 25-Yr.pdf
Version: HydroCalc 1.0.2

Input Parameters

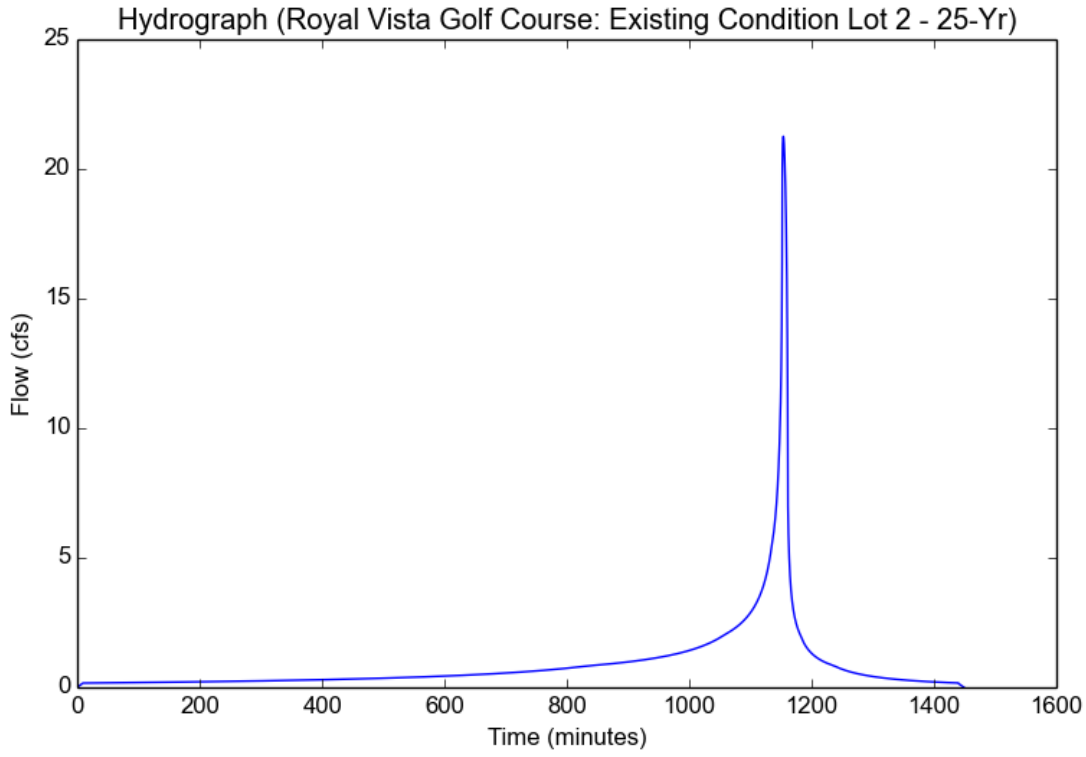
Project Name	Royal Vista Residential Project
Subarea ID	Existing Condition Lot 2 - 25-Yr
Area (ac)	9.5
Flow Path Length (ft)	985.0
Flow Path Slope (vft/hft)	0.04
50-yr Rainfall Depth (in)	6.5
Percent Impervious	0.03
Soil Type	2
Design Storm Frequency	25-yr
Fire Factor	0
LID	False

To: PD 2192 in Walnut Drive

Output Results

Modeled (25-yr) Rainfall Depth (in)	5.707
Peak Intensity (in/hr)	2.5831
Undeveloped Runoff Coefficient (Cu)	0.8652
Developed Runoff Coefficient (Cd)	0.8663
Time of Concentration (min)	9.0
Clear Peak Flow Rate (cfs)	21.2575
Burned Peak Flow Rate (cfs)	21.2575
24-Hr Clear Runoff Volume (ac-ft)	1.8274
24-Hr Clear Runoff Volume (cu-ft)	79601.8929

2.24 cfs/acre



Peak Flow Hydrologic Analysis

File location: C:/Users/susan williams/Desktop/Royal Vista Golf Course - Offsite Area @ Lots 1 & 2.pdf
Version: HydroCalc 1.0.2

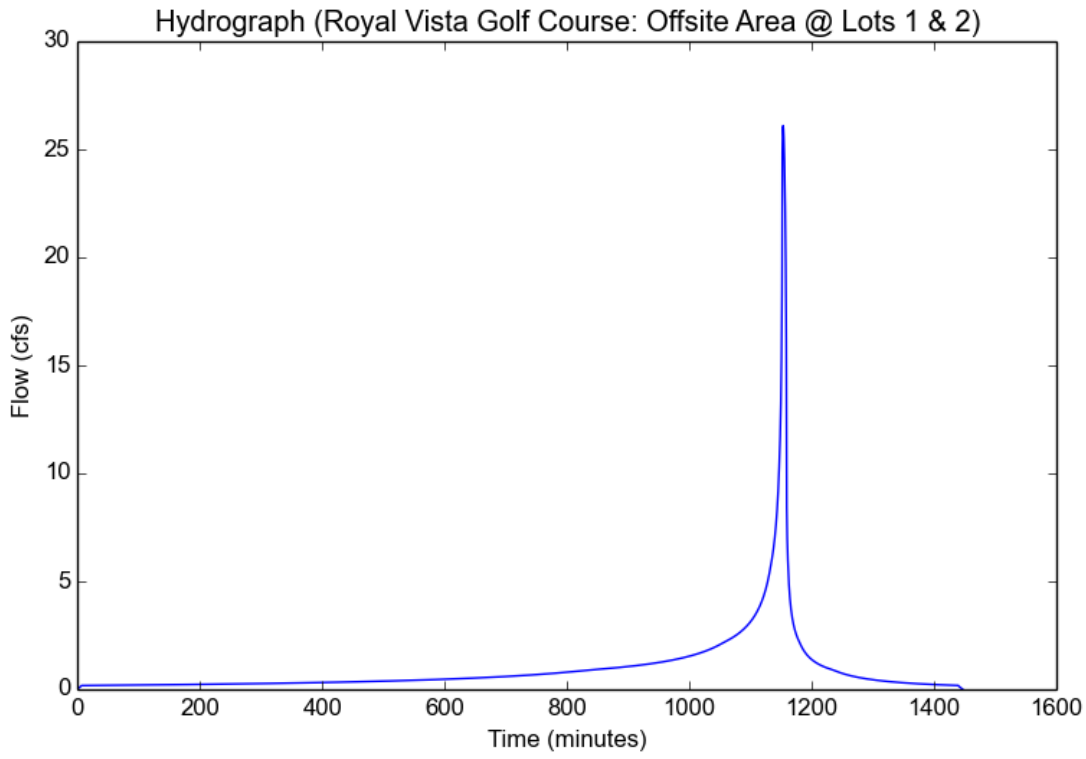
Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Offsite Area @ Lots 1 & 2
Area (ac)	10.2
Flow Path Length (ft)	773.0
Flow Path Slope (vft/hft)	0.05
50-yr Rainfall Depth (in)	6.5
Percent Impervious	0.03
Soil Type	2
Design Storm Frequency	25-yr
Fire Factor	0
LID	False

Output Results

Modeled (25-yr) Rainfall Depth (in)	5.707
Peak Intensity (in/hr)	2.9069
Undeveloped Runoff Coefficient (Cu)	0.8796
Developed Runoff Coefficient (Cd)	0.8802
Time of Concentration (min)	7.0
Clear Peak Flow Rate (cfs)	26.0973
Burned Peak Flow Rate (cfs)	26.0973
24-Hr Clear Runoff Volume (ac-ft)	1.963
24-Hr Clear Runoff Volume (cu-ft)	85508.0615

2.56 cfs/acre



Peak Flow Hydrologic Analysis

File location: C:/Users/susan williams/Desktop/Royal Vista Golf Course - Existing Condition Lot 3 - 25-Yr.pdf
Version: HydroCalc 1.0.2

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Existing Condition Lot 3 - 25-Yr
Area (ac)	6.9
Flow Path Length (ft)	1158.0
Flow Path Slope (vft/hft)	0.072
50-yr Rainfall Depth (in)	6.5
Percent Impervious	0.03
Soil Type	2
Design Storm Frequency	25-yr
Fire Factor	0
LID	False

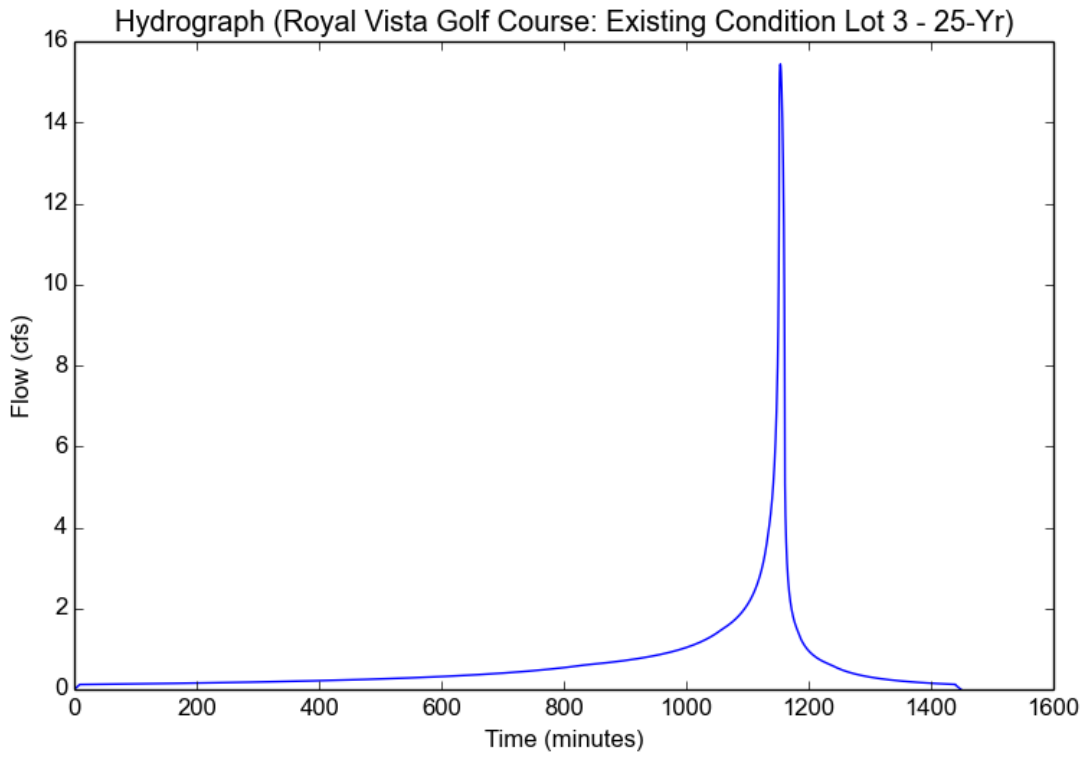
to east(0.9 acre):
onsite: 0.7 acre (3A)
offsite: 0.2 acre (O1)

to PD 2192 (6.0 acre)
onsite: 5.4 acre (3B)
offsite slopes: 0.6 acre (O2)
Q25 = 13.5 cfs

Output Results

Modeled (25-yr) Rainfall Depth (in)	5.707
Peak Intensity (in/hr)	2.5831
Undeveloped Runoff Coefficient (Cu)	0.8652
Developed Runoff Coefficient (Cd)	0.8663
Time of Concentration (min)	9.0
Clear Peak Flow Rate (cfs)	15.4397
Burned Peak Flow Rate (cfs)	15.4397
24-Hr Clear Runoff Volume (ac-ft)	1.3273
24-Hr Clear Runoff Volume (cu-ft)	57816.1117

2.24 cfs/acre
to PD 2192:
6.0 ac x 2.24
= 13.5 cfs



Peak Flow Hydrologic Analysis

File location: F:/Projects/662/004/_Support Files/Reports/Hydrology/supporting documents/HydroCalc/Lot 5/Royal Vista Golf Course - Existing Condition-
Version: HydroCalc 1.0.2

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Existing Condition - Lot 5 - 25 Yr
Area (ac)	22.1
Flow Path Length (ft)	1806.0
Flow Path Slope (vft/hft)	0.068
50-yr Rainfall Depth (in)	6.5
Percent Impervious	0.03
Soil Type	2
Design Storm Frequency	25-yr
Fire Factor	0
LID	False

Onsite: 21.1 acres
40.6 cfs

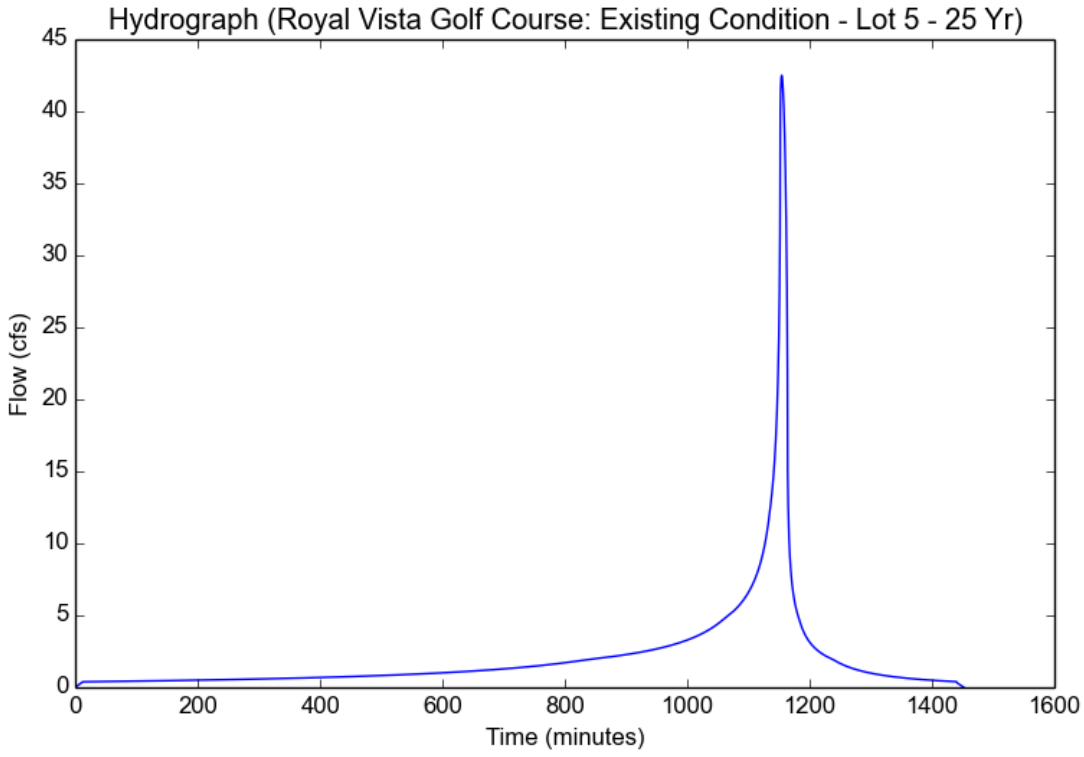
Offsite slopes 1.0 acres
1.9 cfs

Total: 22.1 acres
Q25 = 42.5 cfs

Output Results

Modeled (25-yr) Rainfall Depth (in)	5.707
Peak Intensity (in/hr)	2.2564
Undeveloped Runoff Coefficient (Cu)	0.8508
Developed Runoff Coefficient (Cd)	0.8523
Time of Concentration (min)	12.0
Clear Peak Flow Rate (cfs)	42.4989
Burned Peak Flow Rate (cfs)	42.4989
24-Hr Clear Runoff Volume (ac-ft)	4.2495
24-Hr Clear Runoff Volume (cu-ft)	185107.0477

1.92 cfs/acre



Appendix 6

Proposed HydroCalc Hydrology Calculations

Peak Flow Hydrologic Analysis

File location: C:/Users/Susan Williams/OneDrive - Fuscoe Engineering/Desktop/Royal Vista Residential Project - Lot 1 - 25-yr-revised-2.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 1 - 25-yr-revised-2
Area (ac)	31.6
Flow Path Length (ft)	1440.0
Flow Path Slope (vft/hft)	0.03
50-yr Rainfall Depth (in)	6.5
Percent Impervious	0.35
Soil Type	2
Design Storm Frequency	25-yr
Fire Factor	0
LID	False

1E Tarta Ct: 1.3 acres
Q25 = 2.5 cfs

1D Tierra Luna: 2.5 acres
Q25 = 4.9 cfs

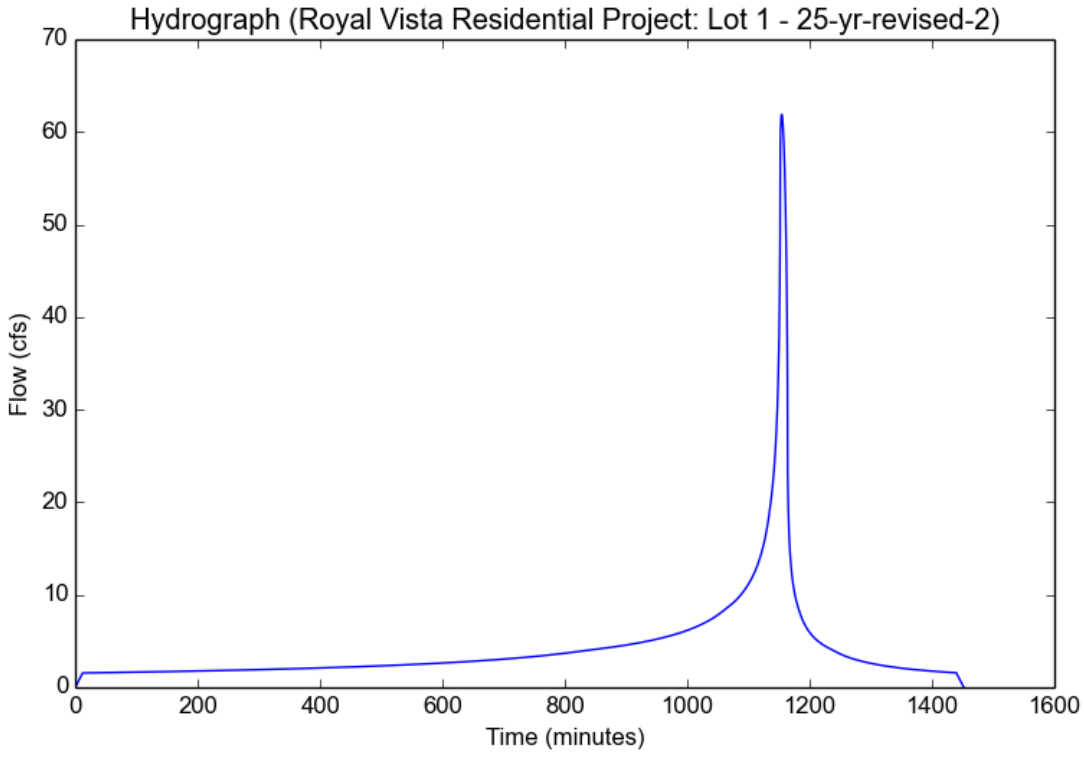
16C 0.3 acres at west boundary Q25 = 0.6 cfs

Remainder (27.5 acres) to storm drain/detention
Q25 = 53.9 cfs

Output Results

Modeled (25-yr) Rainfall Depth (in)	5.707
Peak Intensity (in/hr)	2.2564
Undeveloped Runoff Coefficient (Cu)	0.8508
Developed Runoff Coefficient (Cd)	0.868
Time of Concentration (min)	12.0
Clear Peak Flow Rate (cfs)	61.8906
Burned Peak Flow Rate (cfs)	61.8906
24-Hr Clear Runoff Volume (ac-ft)	8.4968
24-Hr Clear Runoff Volume (cu-ft)	370122.4365

1.96 cfs/acre



Peak Flow Hydrologic Analysis

File location: C:/Users/susan williams/Desktop/Royal Vista Golf Course - Proposed Condition Lot 2 - 25-Yr.pdf
Version: HydroCalc 1.0.2

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Proposed Condition Lot 2 - 25-Yr
Area (ac)	9.5
Flow Path Length (ft)	912.0
Flow Path Slope (vft/hft)	0.03
50-yr Rainfall Depth (in)	6.5
Percent Impervious	0.33
Soil Type	2
Design Storm Frequency	25-yr
Fire Factor	0
LID	False

1G @ Walnut Dr: 0.3 acres Q25 = 0.7cfs

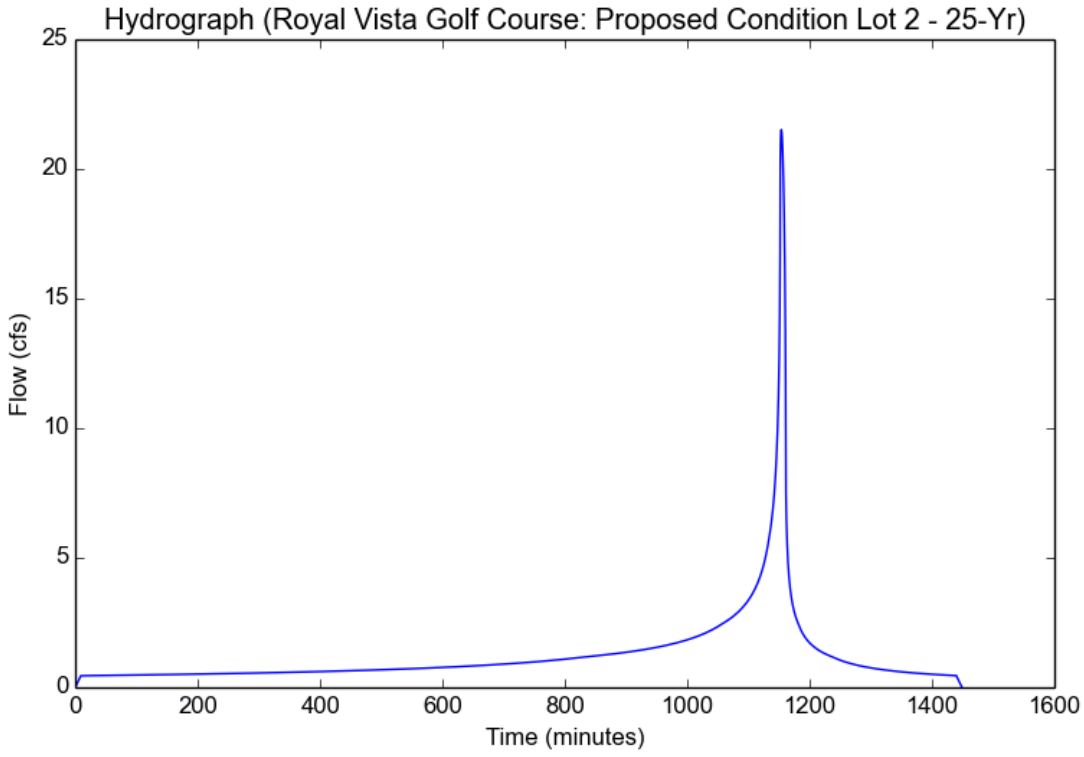
0.1 acres street dedication
Q25 = 0.2 cfs

Remainder (9.1acres) to storm drain/detention
Q25 = 20.6 cfs

Output Results

Modeled (25-yr) Rainfall Depth (in)	5.707
Peak Intensity (in/hr)	2.5831
Undeveloped Runoff Coefficient (Cu)	0.8652
Developed Runoff Coefficient (Cd)	0.8767
Time of Concentration (min)	9.0
Clear Peak Flow Rate (cfs)	21.5135
Burned Peak Flow Rate (cfs)	21.5135
24-Hr Clear Runoff Volume (ac-ft)	2.5094
24-Hr Clear Runoff Volume (cu-ft)	109311.0927

2.26 cfs/acre



Peak Flow Hydrologic Analysis

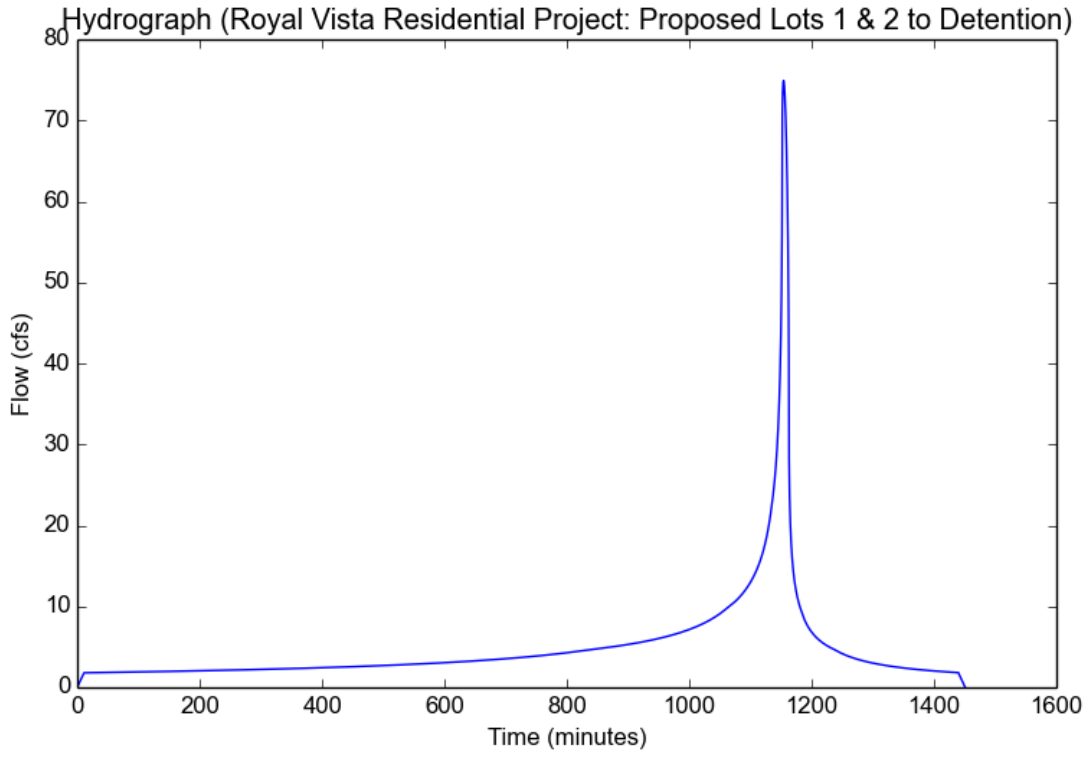
File location: C:/Users/Susan Williams/OneDrive - Fuscoe Engineering/Desktop/Royal Vista Residential Project - Proposed Lots 1 & 2 to Detention.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Proposed Lots 1 & 2 to Detention
Area (ac)	36.6
Flow Path Length (ft)	1400.0
Flow Path Slope (vft/hft)	0.03
50-yr Rainfall Depth (in)	6.5
Percent Impervious	0.35
Soil Type	2
Design Storm Frequency	25-yr
Fire Factor	0
LID	False

Output Results

Modeled (25-yr) Rainfall Depth (in)	5.707
Peak Intensity (in/hr)	2.3506
Undeveloped Runoff Coefficient (Cu)	0.855
Developed Runoff Coefficient (Cd)	0.8707
Time of Concentration (min)	11.0
Clear Peak Flow Rate (cfs)	74.9085
Burned Peak Flow Rate (cfs)	74.9085
24-Hr Clear Runoff Volume (ac-ft)	9.8418
24-Hr Clear Runoff Volume (cu-ft)	428707.3442



Peak Flow Hydrologic Analysis

File location: C:/Users/Susan Williams/OneDrive - Fuscoe Engineering/Desktop/Royal Vista - Lot 3 - 25-yr-revised-2.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 3 - 25-yr-revised-2
Area (ac)	6.9
Flow Path Length (ft)	1060.0
Flow Path Slope (vft/hft)	0.02
50-yr Rainfall Depth (in)	6.5
Percent Impervious	0.35
Soil Type	2
Design Storm Frequency	25-yr
Fire Factor	0
LID	False

6.1 acres (site area)

0.8 acres (offsite area)

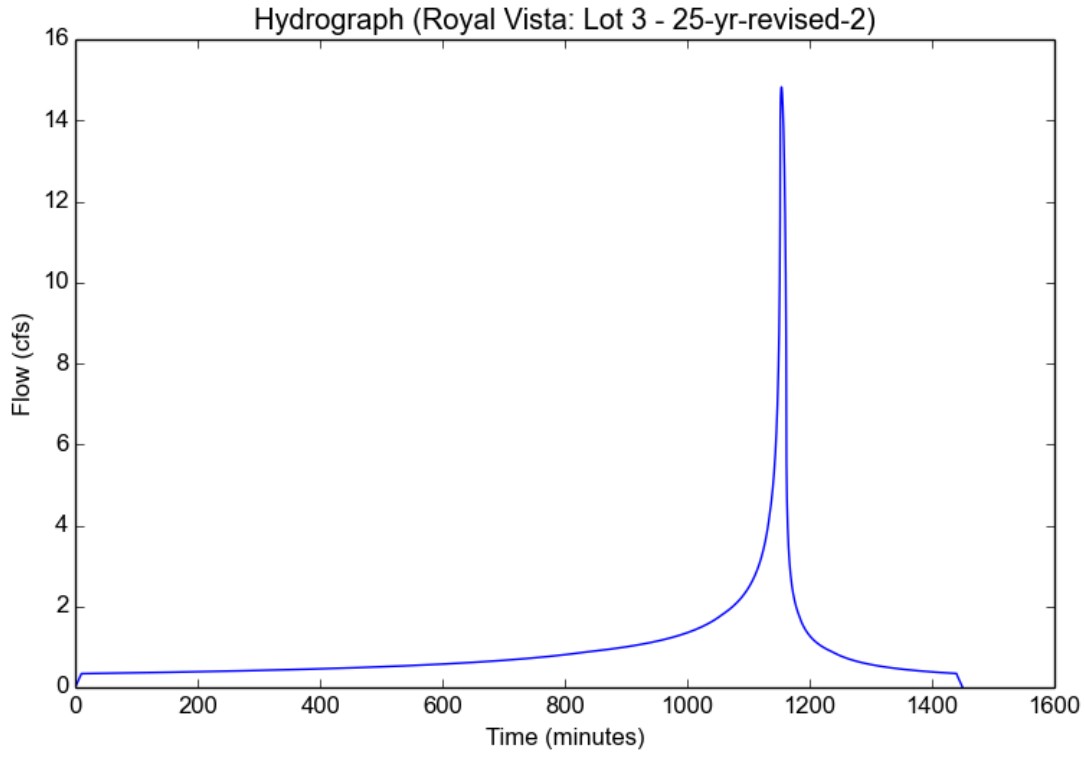
6.6 acres to detention system @ PD 2192(14.2 cfs)

* note: 0.3 acre (Q25=0.7 cfs) street dedication on Walnut Drive

Output Results

Modeled (25-yr) Rainfall Depth (in)	5.707
Peak Intensity (in/hr)	2.4583
Undeveloped Runoff Coefficient (Cu)	0.8597
Developed Runoff Coefficient (Cd)	0.8738
Time of Concentration (min)	10.0
Clear Peak Flow Rate (cfs)	14.8216
Burned Peak Flow Rate (cfs)	14.8216
24-Hr Clear Runoff Volume (ac-ft)	1.8555
24-Hr Clear Runoff Volume (cu-ft)	80826.7435

2.15 cfs/acre



Peak Flow Hydrologic Analysis

File location: C:/Users/Susan Williams/OneDrive - Fuscoe Engineering/Desktop/Royal Vista Residential Project - Proposed Condition Lot 5 - 25-yr.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Proposed Condition Lot 5 - 25-yr
Area (ac)	22.1
Flow Path Length (ft)	1300.0
Flow Path Slope (vft/hft)	0.04
50-yr Rainfall Depth (in)	6.5
Percent Impervious	0.27
Soil Type	2
Design Storm Frequency	25-yr
Fire Factor	0
LID	False

onsite: 21.1 acres

offsite: 1 acre

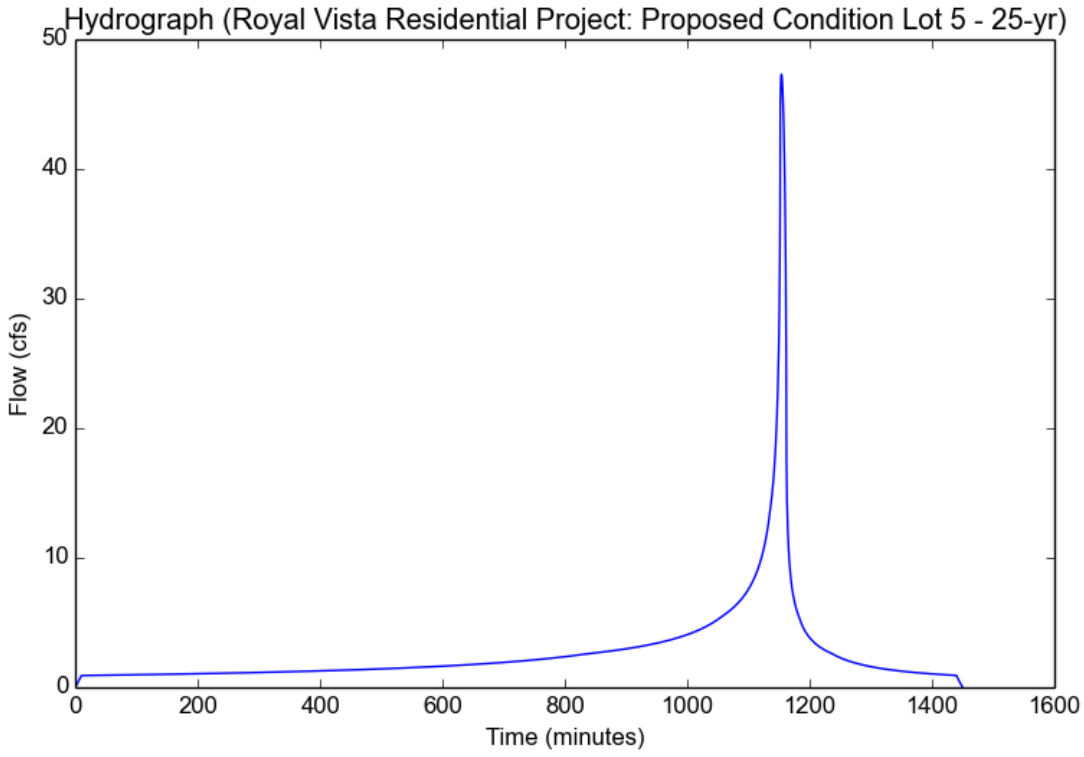
Output Results

Modeled (25-yr) Rainfall Depth (in)	5.707
Peak Intensity (in/hr)	2.4583
Undeveloped Runoff Coefficient (Cu)	0.8597
Developed Runoff Coefficient (Cd)	0.8706
Time of Concentration (min)	10.0
Clear Peak Flow Rate (cfs)	47.297
Burned Peak Flow Rate (cfs)	47.297
24-Hr Clear Runoff Volume (ac-ft)	5.5199
24-Hr Clear Runoff Volume (cu-ft)	240447.2833

Q25 to catch basin / 24" storm drain = 1.1 cfs

Q25 to detention tank = 46.3 cfs

2.14 cfs/acre



Peak Flow Hydrologic Analysis

File location: C:/Users/susan williams/Desktop/Royal Vista Golf Course - Proposed Condition Lot 5 - 25-Yr Detention Tank Only.pdf
Version: HydroCalc 1.0.2

Input Parameters

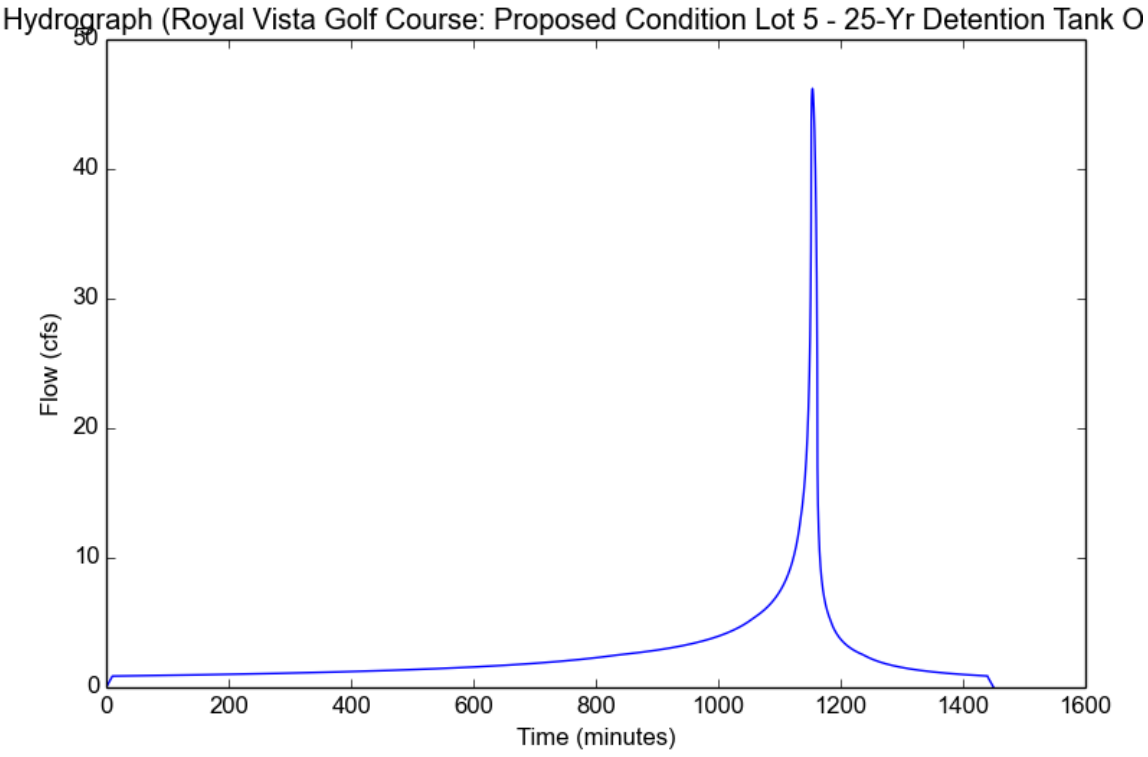
Project Name	Royal Vista Residential Project
Subarea ID	Proposed Condition Lot 5 - 25-Yr Detention Tan
Area (ac)	21.6
Flow Path Length (ft)	1300.0
Flow Path Slope (vft/hft)	0.04
50-yr Rainfall Depth (in)	6.5
Percent Impervious	0.26
Soil Type	2
Design Storm Frequency	25-yr
Fire Factor	0
LID	False

Output Results

Modeled (25-yr) Rainfall Depth (in)	5.707
Peak Intensity (in/hr)	2.4583
Undeveloped Runoff Coefficient (Cu)	0.8597
Developed Runoff Coefficient (Cd)	0.8702
Time of Concentration (min)	10.0
Clear Peak Flow Rate (cfs)	46.2055
Burned Peak Flow Rate (cfs)	46.2055
24-Hr Clear Runoff Volume (ac-ft)	5.3433
24-Hr Clear Runoff Volume (cu-ft)	232755.3558

Q25 to detention tank = 46.2 cfs

2.14 cfs/acre



Appendix 7

Detention Calculations

Hydraulic Analysis Report

Project Data

Project Title:
Designer:
Project Date: Wednesday, February 17, 2021
Project Units: U.S. Customary Units
Notes:

Detention Basin Analysis: Detention Basin Analysis

Notes:

Storage Input Parameters

Storage Capacity: Known geometry
Length: 59.0000 ft
Width: 59.0000 ft
Depth: 5.0000 ft
Side slope: 0.0000 ft/ft
Base elevation: 0.0000 ft

Discharge Input Parameters

Known Discharge: Known Discharge 1

Elevation ft	Discharge cfs
0.00	0.00
0.25	0.50
0.50	2.10
0.75	4.80
1.00	8.20
1.25	12.10
1.50	16.30
1.75	23.00
2.00	28.20
2.25	32.50
2.50	36.40
2.75	39.80
3.00	43.00
3.25	46.00
3.50	48.80
3.75	51.40
4.00	53.90
4.25	56.30
4.50	58.60
4.75	60.80
5.00	63.00

Storage & Discharge Input Parameters

Elevation - Storage - Discharge

Elevation ft	Storage acre-ft	Discharge cfs
0.00	0.00	0.00
0.25	0.02	0.50
0.50	0.04	2.10
0.75	0.06	4.80
1.00	0.08	8.20
1.25	0.10	12.10
1.50	0.12	16.30
1.75	0.14	23.00
2.00	0.16	28.20
2.25	0.18	32.50
2.50	0.20	36.40
2.75	0.22	39.80
3.00	0.24	43.00
3.25	0.26	46.00
3.50	0.28	48.80
3.75	0.30	51.40
4.00	0.32	53.90
4.25	0.34	56.30
4.50	0.36	58.60
4.75	0.38	60.80
5.00	0.40	63.00

Detention Basin Input Parameters

Inflow Hydrograph

Peak Inflow Discharge: 74.909 cfs, Time to Peak: 1154.20 (min), Total Inflow Volume: 42

Time (min)	Discharge cfs
0.00	0.00
0.20	0.03
0.40	0.07
0.60	0.10
0.80	0.13
1.00	0.16
1.20	0.20
1.40	0.23
1.60	0.26
1.80	0.29
2.00	0.33
2.20	0.36
2.40	0.39
2.60	0.43
2.80	0.46
3.00	0.49
3.20	0.52
3.40	0.56
3.60	0.59
3.80	0.62
4.00	0.66
4.20	0.69
4.40	0.72
4.60	0.75
4.80	0.79
5.00	0.82
5.20	0.85
5.40	0.89
5.60	0.92
5.80	0.95
6.00	0.98
6.20	1.02
6.40	1.05
6.60	1.08
6.80	1.11
7.00	1.15
7.20	1.18
7.40	1.21
7.60	1.25
7.80	1.28
8.00	1.31
8.20	1.34
8.40	1.38
8.60	1.41
8.80	1.44
9.00	1.47
9.20	1.51
9.40	1.54
9.60	1.57
9.80	1.61
10.00	1.64
10.20	1.67
10.40	1.70

10.60	1.74
10.80	1.77
11.00	1.80
11.20	1.80
11.40	1.80
11.60	1.80
11.80	1.80
12.00	1.80
12.20	1.80
12.40	1.80
12.60	1.80
12.80	1.80
13.00	1.80
13.20	1.81
13.40	1.81
13.60	1.81
13.80	1.81
14.00	1.81
14.20	1.81
14.40	1.81
14.60	1.81
14.80	1.81
15.00	1.81
15.20	1.81
15.40	1.81
15.60	1.81
15.80	1.81
16.00	1.81
16.20	1.81
16.40	1.81
16.60	1.81
16.80	1.81
17.00	1.81
17.20	1.81
17.40	1.81
17.60	1.81
17.80	1.81
18.00	1.81
18.20	1.81
18.40	1.81
18.60	1.81
18.80	1.81
19.00	1.81
19.20	1.81
19.40	1.81
19.60	1.81
19.80	1.81
20.00	1.81
20.20	1.81
20.40	1.81
20.60	1.81
20.80	1.81
21.00	1.81
21.20	1.81
21.40	1.81
21.60	1.81
21.80	1.81
22.00	1.82
22.20	1.82
22.40	1.82
22.60	1.82
22.80	1.82
23.00	1.82
23.20	1.82
23.40	1.82
23.60	1.82

23.80	1.82
24.00	1.82
24.20	1.82
24.40	1.82
24.60	1.82
24.80	1.82
25.00	1.82
25.20	1.82
25.40	1.82
25.60	1.82
25.80	1.82
26.00	1.82
26.20	1.82
26.40	1.82
26.60	1.82
26.80	1.82
27.00	1.82
27.20	1.82
27.40	1.82
27.60	1.82
27.80	1.82
28.00	1.82
28.20	1.82
28.40	1.82
28.60	1.82
28.80	1.82
29.00	1.82
29.20	1.82
29.40	1.82
29.60	1.82
29.80	1.82
30.00	1.82
30.20	1.82
30.40	1.82
30.60	1.82
30.80	1.83
31.00	1.83
31.20	1.83
31.40	1.83
31.60	1.83
31.80	1.83
32.00	1.83
32.20	1.83
32.40	1.83
32.60	1.83
32.80	1.83
33.00	1.83
33.20	1.83
33.40	1.83
33.60	1.83
33.80	1.83
34.00	1.83
34.20	1.83
34.40	1.83
34.60	1.83
34.80	1.83
35.00	1.83
35.20	1.83
35.40	1.83
35.60	1.83
35.80	1.83
36.00	1.83
36.20	1.83
36.40	1.83
36.60	1.83
36.80	1.83

37.00	1.83
37.20	1.83
37.40	1.83
37.60	1.83
37.80	1.83
38.00	1.83
38.20	1.83
38.40	1.83
38.60	1.83
38.80	1.83
39.00	1.83
39.20	1.83
39.40	1.84
39.60	1.84
39.80	1.84
40.00	1.84
40.20	1.84
40.40	1.84
40.60	1.84
40.80	1.84
41.00	1.84
41.20	1.84
41.40	1.84
41.60	1.84
41.80	1.84
42.00	1.84
42.20	1.84
42.40	1.84
42.60	1.84
42.80	1.84
43.00	1.84
43.20	1.84
43.40	1.84
43.60	1.84
43.80	1.84
44.00	1.84
44.20	1.84
44.40	1.84
44.60	1.84
44.80	1.84
45.00	1.84
45.20	1.84
45.40	1.84
45.60	1.84
45.80	1.84
46.00	1.84
46.20	1.84
46.40	1.84
46.60	1.84
46.80	1.84
47.00	1.84
47.20	1.84
47.40	1.84
47.60	1.84
47.80	1.85
48.00	1.85
48.20	1.85
48.40	1.85
48.60	1.85
48.80	1.85
49.00	1.85
49.20	1.85
49.40	1.85
49.60	1.85
49.80	1.85
50.00	1.85

50.20	1.85
50.40	1.85
50.60	1.85
50.80	1.85
51.00	1.85
51.20	1.85
51.40	1.85
51.60	1.85
51.80	1.85
52.00	1.85
52.20	1.85
52.40	1.85
52.60	1.85
52.80	1.85
53.00	1.85
53.20	1.85
53.40	1.85
53.60	1.85
53.80	1.85
54.00	1.85
54.20	1.85
54.40	1.85
54.60	1.85
54.80	1.85
55.00	1.85
55.20	1.85
55.40	1.85
55.60	1.85
55.80	1.85
56.00	1.85
56.20	1.86
56.40	1.86
56.60	1.86
56.80	1.86
57.00	1.86
57.20	1.86
57.40	1.86
57.60	1.86
57.80	1.86
58.00	1.86
58.20	1.86
58.40	1.86
58.60	1.86
58.80	1.86
59.00	1.86
59.20	1.86
59.40	1.86
59.60	1.86
59.80	1.86
60.00	1.86
60.20	1.86
60.40	1.86
60.60	1.86
60.80	1.86
61.00	1.86
61.20	1.86
61.40	1.86
61.60	1.86
61.80	1.86
62.00	1.86
62.20	1.86
62.40	1.86
62.60	1.86
62.80	1.86
63.00	1.86
63.20	1.86

63.40	1.86
63.60	1.86
63.80	1.86
64.00	1.86
64.20	1.86
64.40	1.86
64.60	1.87
64.80	1.87
65.00	1.87
65.20	1.87
65.40	1.87
65.60	1.87
65.80	1.87
66.00	1.87
66.20	1.87
66.40	1.87
66.60	1.87
66.80	1.87
67.00	1.87
67.20	1.87
67.40	1.87
67.60	1.87
67.80	1.87
68.00	1.87
68.20	1.87
68.40	1.87
68.60	1.87
68.80	1.87
69.00	1.87
69.20	1.87
69.40	1.87
69.60	1.87
69.80	1.87
70.00	1.87
70.20	1.87
70.40	1.87
70.60	1.87
70.80	1.87
71.00	1.87
71.20	1.87
71.40	1.87
71.60	1.87
71.80	1.87
72.00	1.87
72.20	1.87
72.40	1.87
72.60	1.87
72.80	1.88
73.00	1.88
73.20	1.88
73.40	1.88
73.60	1.88
73.80	1.88
74.00	1.88
74.20	1.88
74.40	1.88
74.60	1.88
74.80	1.88
75.00	1.88
75.20	1.88
75.40	1.88
75.60	1.88
75.80	1.88
76.00	1.88
76.20	1.88
76.40	1.88

76.60	1.88
76.80	1.88
77.00	1.88
77.20	1.88
77.40	1.88
77.60	1.88
77.80	1.88
78.00	1.88
78.20	1.88
78.40	1.88
78.60	1.88
78.80	1.88
79.00	1.88
79.20	1.88
79.40	1.88
79.60	1.88
79.80	1.88
80.00	1.88
80.20	1.88
80.40	1.88
80.60	1.88
80.80	1.89
81.00	1.89
81.20	1.89
81.40	1.89
81.60	1.89
81.80	1.89
82.00	1.89
82.20	1.89
82.40	1.89
82.60	1.89
82.80	1.89
83.00	1.89
83.20	1.89
83.40	1.89
83.60	1.89
83.80	1.89
84.00	1.89
84.20	1.89
84.40	1.89
84.60	1.89
84.80	1.89
85.00	1.89
85.20	1.89
85.40	1.89
85.60	1.89
85.80	1.89
86.00	1.89
86.20	1.89
86.40	1.89
86.60	1.89
86.80	1.89
87.00	1.89
87.20	1.89
87.40	1.89
87.60	1.89
87.80	1.89
88.00	1.89
88.20	1.89
88.40	1.89
88.60	1.89
88.80	1.90
89.00	1.90
89.20	1.90
89.40	1.90
89.60	1.90

89.80	1.90
90.00	1.90
90.20	1.90
90.40	1.90
90.60	1.90
90.80	1.90
91.00	1.90
91.20	1.90
91.40	1.90
91.60	1.90
91.80	1.90
92.00	1.90
92.20	1.90
92.40	1.90
92.60	1.90
92.80	1.90
93.00	1.90
93.20	1.90
93.40	1.90
93.60	1.90
93.80	1.90
94.00	1.90
94.20	1.90
94.40	1.90
94.60	1.90
94.80	1.90
95.00	1.90
95.20	1.90
95.40	1.90
95.60	1.90
95.80	1.90
96.00	1.90
96.20	1.90
96.40	1.90
96.60	1.91
96.80	1.91
97.00	1.91
97.20	1.91
97.40	1.91
97.60	1.91
97.80	1.91
98.00	1.91
98.20	1.91
98.40	1.91
98.60	1.91
98.80	1.91
99.00	1.91
99.20	1.91
99.40	1.91
99.60	1.91
99.80	1.91
100.00	1.91
100.20	1.91
100.40	1.91
100.60	1.91
100.80	1.91
101.00	1.91
101.20	1.91
101.40	1.91
101.60	1.91
101.80	1.91
102.00	1.91
102.20	1.91
102.40	1.91
102.60	1.91
102.80	1.91

103.00	1.91
103.20	1.91
103.40	1.91
103.60	1.91
103.80	1.91
104.00	1.91
104.20	1.91
104.40	1.92
104.60	1.92
104.80	1.92
105.00	1.92
105.20	1.92
105.40	1.92
105.60	1.92
105.80	1.92
106.00	1.92
106.20	1.92
106.40	1.92
106.60	1.92
106.80	1.92
107.00	1.92
107.20	1.92
107.40	1.92
107.60	1.92
107.80	1.92
108.00	1.92
108.20	1.92
108.40	1.92
108.60	1.92
108.80	1.92
109.00	1.92
109.20	1.92
109.40	1.92
109.60	1.92
109.80	1.92
110.00	1.92
110.20	1.92
110.40	1.92
110.60	1.92
110.80	1.92
111.00	1.92
111.20	1.92
111.40	1.92
111.60	1.92
111.80	1.92
112.00	1.93
112.20	1.93
112.40	1.93
112.60	1.93
112.80	1.93
113.00	1.93
113.20	1.93
113.40	1.93
113.60	1.93
113.80	1.93
114.00	1.93
114.20	1.93
114.40	1.93
114.60	1.93
114.80	1.93
115.00	1.93
115.20	1.93
115.40	1.93
115.60	1.93
115.80	1.93
116.00	1.93

116.20	1.93
116.40	1.93
116.60	1.93
116.80	1.93
117.00	1.93
117.20	1.93
117.40	1.93
117.60	1.93
117.80	1.93
118.00	1.93
118.20	1.93
118.40	1.93
118.60	1.93
118.80	1.93
119.00	1.93
119.20	1.93
119.40	1.93
119.60	1.94
119.80	1.94
120.00	1.94
120.20	1.94
120.40	1.94
120.60	1.94
120.80	1.94
121.00	1.94
121.20	1.94
121.40	1.94
121.60	1.94
121.80	1.94
122.00	1.94
122.20	1.94
122.40	1.94
122.60	1.94
122.80	1.94
123.00	1.94
123.20	1.94
123.40	1.94
123.60	1.94
123.80	1.94
124.00	1.94
124.20	1.94
124.40	1.94
124.60	1.94
124.80	1.94
125.00	1.94
125.20	1.94
125.40	1.94
125.60	1.94
125.80	1.94
126.00	1.94
126.20	1.94
126.40	1.94
126.60	1.94
126.80	1.94
127.00	1.95
127.20	1.95
127.40	1.95
127.60	1.95
127.80	1.95
128.00	1.95
128.20	1.95
128.40	1.95
128.60	1.95
128.80	1.95
129.00	1.95
129.20	1.95

129.40	1.95
129.60	1.95
129.80	1.95
130.00	1.95
130.20	1.95
130.40	1.95
130.60	1.95
130.80	1.95
131.00	1.95
131.20	1.95
131.40	1.95
131.60	1.95
131.80	1.95
132.00	1.95
132.20	1.95
132.40	1.95
132.60	1.95
132.80	1.95
133.00	1.95
133.20	1.95
133.40	1.95
133.60	1.95
133.80	1.95
134.00	1.95
134.20	1.95
134.40	1.96
134.60	1.96
134.80	1.96
135.00	1.96
135.20	1.96
135.40	1.96
135.60	1.96
135.80	1.96
136.00	1.96
136.20	1.96
136.40	1.96
136.60	1.96
136.80	1.96
137.00	1.96
137.20	1.96
137.40	1.96
137.60	1.96
137.80	1.96
138.00	1.96
138.20	1.96
138.40	1.96
138.60	1.96
138.80	1.96
139.00	1.96
139.20	1.96
139.40	1.96
139.60	1.96
139.80	1.96
140.00	1.96
140.20	1.96
140.40	1.96
140.60	1.96
140.80	1.96
141.00	1.96
141.20	1.96
141.40	1.96
141.60	1.97
141.80	1.97
142.00	1.97
142.20	1.97
142.40	1.97

142.60	1.97
142.80	1.97
143.00	1.97
143.20	1.97
143.40	1.97
143.60	1.97
143.80	1.97
144.00	1.97
144.20	1.97
144.40	1.97
144.60	1.97
144.80	1.97
145.00	1.97
145.20	1.97
145.40	1.97
145.60	1.97
145.80	1.97
146.00	1.97
146.20	1.97
146.40	1.97
146.60	1.97
146.80	1.97
147.00	1.97
147.20	1.97
147.40	1.97
147.60	1.97
147.80	1.97
148.00	1.97
148.20	1.97
148.40	1.97
148.60	1.97
148.80	1.98
149.00	1.98
149.20	1.98
149.40	1.98
149.60	1.98
149.80	1.98
150.00	1.98
150.20	1.98
150.40	1.98
150.60	1.98
150.80	1.98
151.00	1.98
151.20	1.98
151.40	1.98
151.60	1.98
151.80	1.98
152.00	1.98
152.20	1.98
152.40	1.98
152.60	1.98
152.80	1.98
153.00	1.98
153.20	1.98
153.40	1.98
153.60	1.98
153.80	1.98
154.00	1.98
154.20	1.98
154.40	1.98
154.60	1.98
154.80	1.98
155.00	1.98
155.20	1.98
155.40	1.98
155.60	1.98

155.80	1.98
156.00	1.99
156.20	1.99
156.40	1.99
156.60	1.99
156.80	1.99
157.00	1.99
157.20	1.99
157.40	1.99
157.60	1.99
157.80	1.99
158.00	1.99
158.20	1.99
158.40	1.99
158.60	1.99
158.80	1.99
159.00	1.99
159.20	1.99
159.40	1.99
159.60	1.99
159.80	1.99
160.00	1.99
160.20	1.99
160.40	1.99
160.60	1.99
160.80	1.99
161.00	1.99
161.20	1.99
161.40	1.99
161.60	1.99
161.80	1.99
162.00	1.99
162.20	1.99
162.40	1.99
162.60	1.99
162.80	1.99
163.00	2.00
163.20	2.00
163.40	2.00
163.60	2.00
163.80	2.00
164.00	2.00
164.20	2.00
164.40	2.00
164.60	2.00
164.80	2.00
165.00	2.00
165.20	2.00
165.40	2.00
165.60	2.00
165.80	2.00
166.00	2.00
166.20	2.00
166.40	2.00
166.60	2.00
166.80	2.00
167.00	2.00
167.20	2.00
167.40	2.00
167.60	2.00
167.80	2.00
168.00	2.00
168.20	2.00
168.40	2.00
168.60	2.00
168.80	2.00

169.00	2.00
169.20	2.00
169.40	2.00
169.60	2.00
169.80	2.01
170.00	2.01
170.20	2.01
170.40	2.01
170.60	2.01
170.80	2.01
171.00	2.01
171.20	2.01
171.40	2.01
171.60	2.01
171.80	2.01
172.00	2.01
172.20	2.01
172.40	2.01
172.60	2.01
172.80	2.01
173.00	2.01
173.20	2.01
173.40	2.01
173.60	2.01
173.80	2.01
174.00	2.01
174.20	2.01
174.40	2.01
174.60	2.01
174.80	2.01
175.00	2.01
175.20	2.01
175.40	2.01
175.60	2.01
175.80	2.01
176.00	2.01
176.20	2.01
176.40	2.01
176.60	2.02
176.80	2.02
177.00	2.02
177.20	2.02
177.40	2.02
177.60	2.02
177.80	2.02
178.00	2.02
178.20	2.02
178.40	2.02
178.60	2.02
178.80	2.02
179.00	2.02
179.20	2.02
179.40	2.02
179.60	2.02
179.80	2.02
180.00	2.02
180.20	2.02
180.40	2.02
180.60	2.02
180.80	2.02
181.00	2.02
181.20	2.02
181.40	2.02
181.60	2.02
181.80	2.02
182.00	2.02

182.20	2.02
182.40	2.02
182.60	2.02
182.80	2.02
183.00	2.02
183.20	2.02
183.40	2.03
183.60	2.03
183.80	2.03
184.00	2.03
184.20	2.03
184.40	2.03
184.60	2.03
184.80	2.03
185.00	2.03
185.20	2.03
185.40	2.03
185.60	2.03
185.80	2.03
186.00	2.03
186.20	2.03
186.40	2.03
186.60	2.03
186.80	2.03
187.00	2.03
187.20	2.03
187.40	2.03
187.60	2.03
187.80	2.03
188.00	2.03
188.20	2.03
188.40	2.03
188.60	2.03
188.80	2.03
189.00	2.03
189.20	2.03
189.40	2.03
189.60	2.03
189.80	2.03
190.00	2.04
190.20	2.04
190.40	2.04
190.60	2.04
190.80	2.04
191.00	2.04
191.20	2.04
191.40	2.04
191.60	2.04
191.80	2.04
192.00	2.04
192.20	2.04
192.40	2.04
192.60	2.04
192.80	2.04
193.00	2.04
193.20	2.04
193.40	2.04
193.60	2.04
193.80	2.04
194.00	2.04
194.20	2.04
194.40	2.04
194.60	2.04
194.80	2.04
195.00	2.04
195.20	2.04

195.40	2.04
195.60	2.04
195.80	2.04
196.00	2.04
196.20	2.04
196.40	2.04
196.60	2.05
196.80	2.05
197.00	2.05
197.20	2.05
197.40	2.05
197.60	2.05
197.80	2.05
198.00	2.05
198.20	2.05
198.40	2.05
198.60	2.05
198.80	2.05
199.00	2.05
199.20	2.05
199.40	2.05
199.60	2.05
199.80	2.05
200.00	2.05
200.20	2.05
200.40	2.05
200.60	2.05
200.80	2.05
201.00	2.05
201.20	2.05
201.40	2.05
201.60	2.05
201.80	2.05
202.00	2.05
202.20	2.05
202.40	2.05
202.60	2.05
202.80	2.05
203.00	2.05
203.20	2.06
203.40	2.06
203.60	2.06
203.80	2.06
204.00	2.06
204.20	2.06
204.40	2.06
204.60	2.06
204.80	2.06
205.00	2.06
205.20	2.06
205.40	2.06
205.60	2.06
205.80	2.06
206.00	2.06
206.20	2.06
206.40	2.06
206.60	2.06
206.80	2.06
207.00	2.06
207.20	2.06
207.40	2.06
207.60	2.06
207.80	2.06
208.00	2.06
208.20	2.06
208.40	2.06

208.60	2.06
208.80	2.06
209.00	2.06
209.20	2.06
209.40	2.06
209.60	2.07
209.80	2.07
210.00	2.07
210.20	2.07
210.40	2.07
210.60	2.07
210.80	2.07
211.00	2.07
211.20	2.07
211.40	2.07
211.60	2.07
211.80	2.07
212.00	2.07
212.20	2.07
212.40	2.07
212.60	2.07
212.80	2.07
213.00	2.07
213.20	2.07
213.40	2.07
213.60	2.07
213.80	2.07
214.00	2.07
214.20	2.07
214.40	2.07
214.60	2.07
214.80	2.07
215.00	2.07
215.20	2.07
215.40	2.07
215.60	2.07
215.80	2.08
216.00	2.08
216.20	2.08
216.40	2.08
216.60	2.08
216.80	2.08
217.00	2.08
217.20	2.08
217.40	2.08
217.60	2.08
217.80	2.08
218.00	2.08
218.20	2.08
218.40	2.08
218.60	2.08
218.80	2.08
219.00	2.08
219.20	2.08
219.40	2.08
219.60	2.08
219.80	2.08
220.00	2.08
220.20	2.08
220.40	2.08
220.60	2.08
220.80	2.08
221.00	2.08
221.20	2.08
221.40	2.08
221.60	2.08

221.80	2.08
222.00	2.08
222.20	2.09
222.40	2.09
222.60	2.09
222.80	2.09
223.00	2.09
223.20	2.09
223.40	2.09
223.60	2.09
223.80	2.09
224.00	2.09
224.20	2.09
224.40	2.09
224.60	2.09
224.80	2.09
225.00	2.09
225.20	2.09
225.40	2.09
225.60	2.09
225.80	2.09
226.00	2.09
226.20	2.09
226.40	2.09
226.60	2.09
226.80	2.09
227.00	2.09
227.20	2.09
227.40	2.09
227.60	2.09
227.80	2.09
228.00	2.09
228.20	2.09
228.40	2.10
228.60	2.10
228.80	2.10
229.00	2.10
229.20	2.10
229.40	2.10
229.60	2.10
229.80	2.10
230.00	2.10
230.20	2.10
230.40	2.10
230.60	2.10
230.80	2.10
231.00	2.10
231.20	2.10
231.40	2.10
231.60	2.10
231.80	2.10
232.00	2.10
232.20	2.10
232.40	2.10
232.60	2.10
232.80	2.10
233.00	2.10
233.20	2.10
233.40	2.10
233.60	2.10
233.80	2.10
234.00	2.10
234.20	2.10
234.40	2.11
234.60	2.11
234.80	2.11

235.00	2.11
235.20	2.11
235.40	2.11
235.60	2.11
235.80	2.11
236.00	2.11
236.20	2.11
236.40	2.11
236.60	2.11
236.80	2.11
237.00	2.11
237.20	2.11
237.40	2.11
237.60	2.11
237.80	2.11
238.00	2.11
238.20	2.11
238.40	2.11
238.60	2.11
238.80	2.11
239.00	2.11
239.20	2.11
239.40	2.11
239.60	2.11
239.80	2.11
240.00	2.11
240.20	2.11
240.40	2.12
240.60	2.12
240.80	2.12
241.00	2.12
241.20	2.12
241.40	2.12
241.60	2.12
241.80	2.12
242.00	2.12
242.20	2.12
242.40	2.12
242.60	2.12
242.80	2.12
243.00	2.12
243.20	2.12
243.40	2.12
243.60	2.12
243.80	2.12
244.00	2.12
244.20	2.12
244.40	2.12
244.60	2.12
244.80	2.12
245.00	2.12
245.20	2.12
245.40	2.12
245.60	2.12
245.80	2.12
246.00	2.12
246.20	2.12
246.40	2.13
246.60	2.13
246.80	2.13
247.00	2.13
247.20	2.13
247.40	2.13
247.60	2.13
247.80	2.13
248.00	2.13

248.20	2.13
248.40	2.13
248.60	2.13
248.80	2.13
249.00	2.13
249.20	2.13
249.40	2.13
249.60	2.13
249.80	2.13
250.00	2.13
250.20	2.13
250.40	2.13
250.60	2.13
250.80	2.13
251.00	2.13
251.20	2.13
251.40	2.13
251.60	2.13
251.80	2.13
252.00	2.13
252.20	2.13
252.40	2.14
252.60	2.14
252.80	2.14
253.00	2.14
253.20	2.14
253.40	2.14
253.60	2.14
253.80	2.14
254.00	2.14
254.20	2.14
254.40	2.14
254.60	2.14
254.80	2.14
255.00	2.14
255.20	2.14
255.40	2.14
255.60	2.14
255.80	2.14
256.00	2.14
256.20	2.14
256.40	2.14
256.60	2.14
256.80	2.14
257.00	2.14
257.20	2.14
257.40	2.14
257.60	2.14
257.80	2.14
258.00	2.14
258.20	2.15
258.40	2.15
258.60	2.15
258.80	2.15
259.00	2.15
259.20	2.15
259.40	2.15
259.60	2.15
259.80	2.15
260.00	2.15
260.20	2.15
260.40	2.15
260.60	2.15
260.80	2.15
261.00	2.15
261.20	2.15

261.40	2.15
261.60	2.15
261.80	2.15
262.00	2.15
262.20	2.15
262.40	2.15
262.60	2.15
262.80	2.15
263.00	2.15
263.20	2.15
263.40	2.15
263.60	2.15
263.80	2.15
264.00	2.16
264.20	2.16
264.40	2.16
264.60	2.16
264.80	2.16
265.00	2.16
265.20	2.16
265.40	2.16
265.60	2.16
265.80	2.16
266.00	2.16
266.20	2.16
266.40	2.16
266.60	2.16
266.80	2.16
267.00	2.16
267.20	2.16
267.40	2.16
267.60	2.16
267.80	2.16
268.00	2.16
268.20	2.16
268.40	2.16
268.60	2.16
268.80	2.16
269.00	2.16
269.20	2.16
269.40	2.16
269.60	2.17
269.80	2.17
270.00	2.17
270.20	2.17
270.40	2.17
270.60	2.17
270.80	2.17
271.00	2.17
271.20	2.17
271.40	2.17
271.60	2.17
271.80	2.17
272.00	2.17
272.20	2.17
272.40	2.17
272.60	2.17
272.80	2.17
273.00	2.17
273.20	2.17
273.40	2.17
273.60	2.17
273.80	2.17
274.00	2.17
274.20	2.17
274.40	2.17

274.60	2.17
274.80	2.17
275.00	2.17
275.20	2.17
275.40	2.18
275.60	2.18
275.80	2.18
276.00	2.18
276.20	2.18
276.40	2.18
276.60	2.18
276.80	2.18
277.00	2.18
277.20	2.18
277.40	2.18
277.60	2.18
277.80	2.18
278.00	2.18
278.20	2.18
278.40	2.18
278.60	2.18
278.80	2.18
279.00	2.18
279.20	2.18
279.40	2.18
279.60	2.18
279.80	2.18
280.00	2.18
280.20	2.18
280.40	2.18
280.60	2.18
280.80	2.19
281.00	2.19
281.20	2.19
281.40	2.19
281.60	2.19
281.80	2.19
282.00	2.19
282.20	2.19
282.40	2.19
282.60	2.19
282.80	2.19
283.00	2.19
283.20	2.19
283.40	2.19
283.60	2.19
283.80	2.19
284.00	2.19
284.20	2.19
284.40	2.19
284.60	2.19
284.80	2.19
285.00	2.19
285.20	2.19
285.40	2.19
285.60	2.19
285.80	2.19
286.00	2.19
286.20	2.19
286.40	2.20
286.60	2.20
286.80	2.20
287.00	2.20
287.20	2.20
287.40	2.20
287.60	2.20

287.80	2.20
288.00	2.20
288.20	2.20
288.40	2.20
288.60	2.20
288.80	2.20
289.00	2.20
289.20	2.20
289.40	2.20
289.60	2.20
289.80	2.20
290.00	2.20
290.20	2.20
290.40	2.20
290.60	2.20
290.80	2.20
291.00	2.20
291.20	2.20
291.40	2.20
291.60	2.20
291.80	2.21
292.00	2.21
292.20	2.21
292.40	2.21
292.60	2.21
292.80	2.21
293.00	2.21
293.20	2.21
293.40	2.21
293.60	2.21
293.80	2.21
294.00	2.21
294.20	2.21
294.40	2.21
294.60	2.21
294.80	2.21
295.00	2.21
295.20	2.21
295.40	2.21
295.60	2.21
295.80	2.21
296.00	2.21
296.20	2.21
296.40	2.21
296.60	2.21
296.80	2.21
297.00	2.21
297.20	2.22
297.40	2.22
297.60	2.22
297.80	2.22
298.00	2.22
298.20	2.22
298.40	2.22
298.60	2.22
298.80	2.22
299.00	2.22
299.20	2.22
299.40	2.22
299.60	2.22
299.80	2.22
300.00	2.22
300.20	2.22
300.40	2.22
300.60	2.22
300.80	2.22

301.00	2.22
301.20	2.22
301.40	2.22
301.60	2.22
301.80	2.22
302.00	2.22
302.20	2.22
302.40	2.22
302.60	2.23
302.80	2.23
303.00	2.23
303.20	2.23
303.40	2.23
303.60	2.23
303.80	2.23
304.00	2.23
304.20	2.23
304.40	2.23
304.60	2.23
304.80	2.23
305.00	2.23
305.20	2.23
305.40	2.23
305.60	2.23
305.80	2.23
306.00	2.23
306.20	2.23
306.40	2.23
306.60	2.23
306.80	2.23
307.00	2.23
307.20	2.23
307.40	2.23
307.60	2.23
307.80	2.24
308.00	2.24
308.20	2.24
308.40	2.24
308.60	2.24
308.80	2.24
309.00	2.24
309.20	2.24
309.40	2.24
309.60	2.24
309.80	2.24
310.00	2.24
310.20	2.24
310.40	2.24
310.60	2.24
310.80	2.24
311.00	2.24
311.20	2.24
311.40	2.24
311.60	2.24
311.80	2.24
312.00	2.24
312.20	2.24
312.40	2.24
312.60	2.24
312.80	2.24
313.00	2.25
313.20	2.25
313.40	2.25
313.60	2.25
313.80	2.25
314.00	2.25

314.20	2.25
314.40	2.25
314.60	2.25
314.80	2.25
315.00	2.25
315.20	2.25
315.40	2.25
315.60	2.25
315.80	2.25
316.00	2.25
316.20	2.25
316.40	2.25
316.60	2.25
316.80	2.25
317.00	2.25
317.20	2.25
317.40	2.25
317.60	2.25
317.80	2.25
318.00	2.25
318.20	2.26
318.40	2.26
318.60	2.26
318.80	2.26
319.00	2.26
319.20	2.26
319.40	2.26
319.60	2.26
319.80	2.26
320.00	2.26
320.20	2.26
320.40	2.26
320.60	2.26
320.80	2.26
321.00	2.26
321.20	2.26
321.40	2.26
321.60	2.26
321.80	2.26
322.00	2.26
322.20	2.26
322.40	2.26
322.60	2.26
322.80	2.26
323.00	2.26
323.20	2.27
323.40	2.27
323.60	2.27
323.80	2.27
324.00	2.27
324.20	2.27
324.40	2.27
324.60	2.27
324.80	2.27
325.00	2.27
325.20	2.27
325.40	2.27
325.60	2.27
325.80	2.27
326.00	2.27
326.20	2.27
326.40	2.27
326.60	2.27
326.80	2.27
327.00	2.27
327.20	2.27

327.40	2.27
327.60	2.27
327.80	2.27
328.00	2.27
328.20	2.27
328.40	2.28
328.60	2.28
328.80	2.28
329.00	2.28
329.20	2.28
329.40	2.28
329.60	2.28
329.80	2.28
330.00	2.28
330.20	2.28
330.40	2.28
330.60	2.28
330.80	2.28
331.00	2.28
331.20	2.28
331.40	2.28
331.60	2.28
331.80	2.28
332.00	2.28
332.20	2.28
332.40	2.28
332.60	2.28
332.80	2.28
333.00	2.28
333.20	2.29
333.40	2.29
333.60	2.29
333.80	2.29
334.00	2.29
334.20	2.29
334.40	2.29
334.60	2.29
334.80	2.29
335.00	2.29
335.20	2.29
335.40	2.29
335.60	2.29
335.80	2.29
336.00	2.29
336.20	2.29
336.40	2.29
336.60	2.29
336.80	2.29
337.00	2.29
337.20	2.29
337.40	2.29
337.60	2.29
337.80	2.29
338.00	2.29
338.20	2.30
338.40	2.30
338.60	2.30
338.80	2.30
339.00	2.30
339.20	2.30
339.40	2.30
339.60	2.30
339.80	2.30
340.00	2.30
340.20	2.30
340.40	2.30

340.60	2.30
340.80	2.30
341.00	2.30
341.20	2.30
341.40	2.30
341.60	2.30
341.80	2.30
342.00	2.30
342.20	2.30
342.40	2.30
342.60	2.30
342.80	2.30
343.00	2.31
343.20	2.31
343.40	2.31
343.60	2.31
343.80	2.31
344.00	2.31
344.20	2.31
344.40	2.31
344.60	2.31
344.80	2.31
345.00	2.31
345.20	2.31
345.40	2.31
345.60	2.31
345.80	2.31
346.00	2.31
346.20	2.31
346.40	2.31
346.60	2.31
346.80	2.31
347.00	2.31
347.20	2.31
347.40	2.31
347.60	2.31
347.80	2.31
348.00	2.32
348.20	2.32
348.40	2.32
348.60	2.32
348.80	2.32
349.00	2.32
349.20	2.32
349.40	2.32
349.60	2.32
349.80	2.32
350.00	2.32
350.20	2.32
350.40	2.32
350.60	2.32
350.80	2.32
351.00	2.32
351.20	2.32
351.40	2.32
351.60	2.32
351.80	2.32
352.00	2.32
352.20	2.32
352.40	2.32
352.60	2.33
352.80	2.33
353.00	2.33
353.20	2.33
353.40	2.33
353.60	2.33

353.80	2.33
354.00	2.33
354.20	2.33
354.40	2.33
354.60	2.33
354.80	2.33
355.00	2.33
355.20	2.33
355.40	2.33
355.60	2.33
355.80	2.33
356.00	2.33
356.20	2.33
356.40	2.33
356.60	2.33
356.80	2.33
357.00	2.33
357.20	2.33
357.40	2.34
357.60	2.34
357.80	2.34
358.00	2.34
358.20	2.34
358.40	2.34
358.60	2.34
358.80	2.34
359.00	2.34
359.20	2.34
359.40	2.34
359.60	2.34
359.80	2.34
360.00	2.34
360.20	2.34
360.40	2.34
360.60	2.34
360.80	2.34
361.00	2.34
361.20	2.34
361.40	2.34
361.60	2.34
361.80	2.34
362.00	2.35
362.20	2.35
362.40	2.35
362.60	2.35
362.80	2.35
363.00	2.35
363.20	2.35
363.40	2.35
363.60	2.35
363.80	2.35
364.00	2.35
364.20	2.35
364.40	2.35
364.60	2.35
364.80	2.35
365.00	2.35
365.20	2.35
365.40	2.35
365.60	2.35
365.80	2.35
366.00	2.35
366.20	2.35
366.40	2.35
366.60	2.36
366.80	2.36

367.00	2.36
367.20	2.36
367.40	2.36
367.60	2.36
367.80	2.36
368.00	2.36
368.20	2.36
368.40	2.36
368.60	2.36
368.80	2.36
369.00	2.36
369.20	2.36
369.40	2.36
369.60	2.36
369.80	2.36
370.00	2.36
370.20	2.36
370.40	2.36
370.60	2.36
370.80	2.36
371.00	2.36
371.20	2.37
371.40	2.37
371.60	2.37
371.80	2.37
372.00	2.37
372.20	2.37
372.40	2.37
372.60	2.37
372.80	2.37
373.00	2.37
373.20	2.37
373.40	2.37
373.60	2.37
373.80	2.37
374.00	2.37
374.20	2.37
374.40	2.37
374.60	2.37
374.80	2.37
375.00	2.37
375.20	2.37
375.40	2.37
375.60	2.37
375.80	2.38
376.00	2.38
376.20	2.38
376.40	2.38
376.60	2.38
376.80	2.38
377.00	2.38
377.20	2.38
377.40	2.38
377.60	2.38
377.80	2.38
378.00	2.38
378.20	2.38
378.40	2.38
378.60	2.38
378.80	2.38
379.00	2.38
379.20	2.38
379.40	2.38
379.60	2.38
379.80	2.38
380.00	2.38

380.20	2.38
380.40	2.39
380.60	2.39
380.80	2.39
381.00	2.39
381.20	2.39
381.40	2.39
381.60	2.39
381.80	2.39
382.00	2.39
382.20	2.39
382.40	2.39
382.60	2.39
382.80	2.39
383.00	2.39
383.20	2.39
383.40	2.39
383.60	2.39
383.80	2.39
384.00	2.39
384.20	2.39
384.40	2.39
384.60	2.39
384.80	2.40
385.00	2.40
385.20	2.40
385.40	2.40
385.60	2.40
385.80	2.40
386.00	2.40
386.20	2.40
386.40	2.40
386.60	2.40
386.80	2.40
387.00	2.40
387.20	2.40
387.40	2.40
387.60	2.40
387.80	2.40
388.00	2.40
388.20	2.40
388.40	2.40
388.60	2.40
388.80	2.40
389.00	2.40
389.20	2.41
389.40	2.41
389.60	2.41
389.80	2.41
390.00	2.41
390.20	2.41
390.40	2.41
390.60	2.41
390.80	2.41
391.00	2.41
391.20	2.41
391.40	2.41
391.60	2.41
391.80	2.41
392.00	2.41
392.20	2.41
392.40	2.41
392.60	2.41
392.80	2.41
393.00	2.41
393.20	2.41

393.40	2.42
393.60	2.42
393.80	2.42
394.00	2.42
394.20	2.42
394.40	2.42
394.60	2.42
394.80	2.42
395.00	2.42
395.20	2.42
395.40	2.42
395.60	2.42
395.80	2.42
396.00	2.42
396.20	2.42
396.40	2.42
396.60	2.42
396.80	2.42
397.00	2.42
397.20	2.42
397.40	2.42
397.60	2.42
397.80	2.43
398.00	2.43
398.20	2.43
398.40	2.43
398.60	2.43
398.80	2.43
399.00	2.43
399.20	2.43
399.40	2.43
399.60	2.43
399.80	2.43
400.00	2.43
400.20	2.43
400.40	2.43
400.60	2.43
400.80	2.43
401.00	2.43
401.20	2.43
401.40	2.43
401.60	2.43
401.80	2.43
402.00	2.44
402.20	2.44
402.40	2.44
402.60	2.44
402.80	2.44
403.00	2.44
403.20	2.44
403.40	2.44
403.60	2.44
403.80	2.44
404.00	2.44
404.20	2.44
404.40	2.44
404.60	2.44
404.80	2.44
405.00	2.44
405.20	2.44
405.40	2.44
405.60	2.44
405.80	2.44
406.00	2.44
406.20	2.45
406.40	2.45

406.60	2.45
406.80	2.45
407.00	2.45
407.20	2.45
407.40	2.45
407.60	2.45
407.80	2.45
408.00	2.45
408.20	2.45
408.40	2.45
408.60	2.45
408.80	2.45
409.00	2.45
409.20	2.45
409.40	2.45
409.60	2.45
409.80	2.45
410.00	2.45
410.20	2.45
410.40	2.46
410.60	2.46
410.80	2.46
411.00	2.46
411.20	2.46
411.40	2.46
411.60	2.46
411.80	2.46
412.00	2.46
412.20	2.46
412.40	2.46
412.60	2.46
412.80	2.46
413.00	2.46
413.20	2.46
413.40	2.46
413.60	2.46
413.80	2.46
414.00	2.46
414.20	2.46
414.40	2.46
414.60	2.47
414.80	2.47
415.00	2.47
415.20	2.47
415.40	2.47
415.60	2.47
415.80	2.47
416.00	2.47
416.20	2.47
416.40	2.47
416.60	2.47
416.80	2.47
417.00	2.47
417.20	2.47
417.40	2.47
417.60	2.47
417.80	2.47
418.00	2.47
418.20	2.47
418.40	2.47
418.60	2.48
418.80	2.48
419.00	2.48
419.20	2.48
419.40	2.48
419.60	2.48

419.80	2.48
420.00	2.48
420.20	2.48
420.40	2.48
420.60	2.48
420.80	2.48
421.00	2.48
421.20	2.48
421.40	2.48
421.60	2.48
421.80	2.48
422.00	2.48
422.20	2.48
422.40	2.48
422.60	2.48
422.80	2.49
423.00	2.49
423.20	2.49
423.40	2.49
423.60	2.49
423.80	2.49
424.00	2.49
424.20	2.49
424.40	2.49
424.60	2.49
424.80	2.49
425.00	2.49
425.20	2.49
425.40	2.49
425.60	2.49
425.80	2.49
426.00	2.49
426.20	2.49
426.40	2.49
426.60	2.50
426.80	2.50
427.00	2.50
427.20	2.50
427.40	2.50
427.60	2.50
427.80	2.50
428.00	2.50
428.20	2.50
428.40	2.50
428.60	2.50
428.80	2.50
429.00	2.50
429.20	2.50
429.40	2.50
429.60	2.50
429.80	2.50
430.00	2.50
430.20	2.50
430.40	2.50
430.60	2.51
430.80	2.51
431.00	2.51
431.20	2.51
431.40	2.51
431.60	2.51
431.80	2.51
432.00	2.51
432.20	2.51
432.40	2.51
432.60	2.51
432.80	2.51

433.00	2.51
433.20	2.51
433.40	2.51
433.60	2.51
433.80	2.51
434.00	2.51
434.20	2.51
434.40	2.51
434.60	2.52
434.80	2.52
435.00	2.52
435.20	2.52
435.40	2.52
435.60	2.52
435.80	2.52
436.00	2.52
436.20	2.52
436.40	2.52
436.60	2.52
436.80	2.52
437.00	2.52
437.20	2.52
437.40	2.52
437.60	2.52
437.80	2.52
438.00	2.52
438.20	2.52
438.40	2.52
438.60	2.53
438.80	2.53
439.00	2.53
439.20	2.53
439.40	2.53
439.60	2.53
439.80	2.53
440.00	2.53
440.20	2.53
440.40	2.53
440.60	2.53
440.80	2.53
441.00	2.53
441.20	2.53
441.40	2.53
441.60	2.53
441.80	2.53
442.00	2.53
442.20	2.53
442.40	2.54
442.60	2.54
442.80	2.54
443.00	2.54
443.20	2.54
443.40	2.54
443.60	2.54
443.80	2.54
444.00	2.54
444.20	2.54
444.40	2.54
444.60	2.54
444.80	2.54
445.00	2.54
445.20	2.54
445.40	2.54
445.60	2.54
445.80	2.54
446.00	2.54

446.20	2.55
446.40	2.55
446.60	2.55
446.80	2.55
447.00	2.55
447.20	2.55
447.40	2.55
447.60	2.55
447.80	2.55
448.00	2.55
448.20	2.55
448.40	2.55
448.60	2.55
448.80	2.55
449.00	2.55
449.20	2.55
449.40	2.55
449.60	2.55
449.80	2.55
450.00	2.56
450.20	2.56
450.40	2.56
450.60	2.56
450.80	2.56
451.00	2.56
451.20	2.56
451.40	2.56
451.60	2.56
451.80	2.56
452.00	2.56
452.20	2.56
452.40	2.56
452.60	2.56
452.80	2.56
453.00	2.56
453.20	2.56
453.40	2.56
453.60	2.56
453.80	2.57
454.00	2.57
454.20	2.57
454.40	2.57
454.60	2.57
454.80	2.57
455.00	2.57
455.20	2.57
455.40	2.57
455.60	2.57
455.80	2.57
456.00	2.57
456.20	2.57
456.40	2.57
456.60	2.57
456.80	2.57
457.00	2.57
457.20	2.57
457.40	2.58
457.60	2.58
457.80	2.58
458.00	2.58
458.20	2.58
458.40	2.58
458.60	2.58
458.80	2.58
459.00	2.58
459.20	2.58

459.40	2.58
459.60	2.58
459.80	2.58
460.00	2.58
460.20	2.58
460.40	2.58
460.60	2.58
460.80	2.58
461.00	2.59
461.20	2.59
461.40	2.59
461.60	2.59
461.80	2.59
462.00	2.59
462.20	2.59
462.40	2.59
462.60	2.59
462.80	2.59
463.00	2.59
463.20	2.59
463.40	2.59
463.60	2.59
463.80	2.59
464.00	2.59
464.20	2.59
464.40	2.59
464.60	2.59
464.80	2.60
465.00	2.60
465.20	2.60
465.40	2.60
465.60	2.60
465.80	2.60
466.00	2.60
466.20	2.60
466.40	2.60
466.60	2.60
466.80	2.60
467.00	2.60
467.20	2.60
467.40	2.60
467.60	2.60
467.80	2.60
468.00	2.60
468.20	2.60
468.40	2.61
468.60	2.61
468.80	2.61
469.00	2.61
469.20	2.61
469.40	2.61
469.60	2.61
469.80	2.61
470.00	2.61
470.20	2.61
470.40	2.61
470.60	2.61
470.80	2.61
471.00	2.61
471.20	2.61
471.40	2.61
471.60	2.61
471.80	2.62
472.00	2.62
472.20	2.62
472.40	2.62

472.60	2.62
472.80	2.62
473.00	2.62
473.20	2.62
473.40	2.62
473.60	2.62
473.80	2.62
474.00	2.62
474.20	2.62
474.40	2.62
474.60	2.62
474.80	2.62
475.00	2.62
475.20	2.62
475.40	2.63
475.60	2.63
475.80	2.63
476.00	2.63
476.20	2.63
476.40	2.63
476.60	2.63
476.80	2.63
477.00	2.63
477.20	2.63
477.40	2.63
477.60	2.63
477.80	2.63
478.00	2.63
478.20	2.63
478.40	2.63
478.60	2.63
478.80	2.63
479.00	2.64
479.20	2.64
479.40	2.64
479.60	2.64
479.80	2.64
480.00	2.64
480.20	2.64
480.40	2.64
480.60	2.64
480.80	2.64
481.00	2.64
481.20	2.64
481.40	2.64
481.60	2.64
481.80	2.64
482.00	2.64
482.20	2.64
482.40	2.65
482.60	2.65
482.80	2.65
483.00	2.65
483.20	2.65
483.40	2.65
483.60	2.65
483.80	2.65
484.00	2.65
484.20	2.65
484.40	2.65
484.60	2.65
484.80	2.65
485.00	2.65
485.20	2.65
485.40	2.65
485.60	2.65

485.80	2.66
486.00	2.66
486.20	2.66
486.40	2.66
486.60	2.66
486.80	2.66
487.00	2.66
487.20	2.66
487.40	2.66
487.60	2.66
487.80	2.66
488.00	2.66
488.20	2.66
488.40	2.66
488.60	2.66
488.80	2.66
489.00	2.66
489.20	2.67
489.40	2.67
489.60	2.67
489.80	2.67
490.00	2.67
490.20	2.67
490.40	2.67
490.60	2.67
490.80	2.67
491.00	2.67
491.20	2.67
491.40	2.67
491.60	2.67
491.80	2.67
492.00	2.67
492.20	2.67
492.40	2.67
492.60	2.68
492.80	2.68
493.00	2.68
493.20	2.68
493.40	2.68
493.60	2.68
493.80	2.68
494.00	2.68
494.20	2.68
494.40	2.68
494.60	2.68
494.80	2.68
495.00	2.68
495.20	2.68
495.40	2.68
495.60	2.68
495.80	2.68
496.00	2.69
496.20	2.69
496.40	2.69
496.60	2.69
496.80	2.69
497.00	2.69
497.20	2.69
497.40	2.69
497.60	2.69
497.80	2.69
498.00	2.69
498.20	2.69
498.40	2.69
498.60	2.69
498.80	2.69

499.00	2.69
499.20	2.69
499.40	2.70
499.60	2.70
499.80	2.70
500.00	2.70
500.20	2.70
500.40	2.70
500.60	2.70
500.80	2.70
501.00	2.70
501.20	2.70
501.40	2.70
501.60	2.70
501.80	2.70
502.00	2.70
502.20	2.70
502.40	2.70
502.60	2.71
502.80	2.71
503.00	2.71
503.20	2.71
503.40	2.71
503.60	2.71
503.80	2.71
504.00	2.71
504.20	2.71
504.40	2.71
504.60	2.71
504.80	2.71
505.00	2.71
505.20	2.71
505.40	2.71
505.60	2.71
505.80	2.72
506.00	2.72
506.20	2.72
506.40	2.72
506.60	2.72
506.80	2.72
507.00	2.72
507.20	2.72
507.40	2.72
507.60	2.72
507.80	2.72
508.00	2.72
508.20	2.72
508.40	2.72
508.60	2.72
508.80	2.72
509.00	2.73
509.20	2.73
509.40	2.73
509.60	2.73
509.80	2.73
510.00	2.73
510.20	2.73
510.40	2.73
510.60	2.73
510.80	2.73
511.00	2.73
511.20	2.73
511.40	2.73
511.60	2.73
511.80	2.73
512.00	2.73

512.20	2.74
512.40	2.74
512.60	2.74
512.80	2.74
513.00	2.74
513.20	2.74
513.40	2.74
513.60	2.74
513.80	2.74
514.00	2.74
514.20	2.74
514.40	2.74
514.60	2.74
514.80	2.74
515.00	2.74
515.20	2.74
515.40	2.75
515.60	2.75
515.80	2.75
516.00	2.75
516.20	2.75
516.40	2.75
516.60	2.75
516.80	2.75
517.00	2.75
517.20	2.75
517.40	2.75
517.60	2.75
517.80	2.75
518.00	2.75
518.20	2.75
518.40	2.75
518.60	2.76
518.80	2.76
519.00	2.76
519.20	2.76
519.40	2.76
519.60	2.76
519.80	2.76
520.00	2.76
520.20	2.76
520.40	2.76
520.60	2.76
520.80	2.76
521.00	2.76
521.20	2.76
521.40	2.76
521.60	2.77
521.80	2.77
522.00	2.77
522.20	2.77
522.40	2.77
522.60	2.77
522.80	2.77
523.00	2.77
523.20	2.77
523.40	2.77
523.60	2.77
523.80	2.77
524.00	2.77
524.20	2.77
524.40	2.77
524.60	2.77
524.80	2.78
525.00	2.78
525.20	2.78

525.40	2.78
525.60	2.78
525.80	2.78
526.00	2.78
526.20	2.78
526.40	2.78
526.60	2.78
526.80	2.78
527.00	2.78
527.20	2.78
527.40	2.78
527.60	2.78
527.80	2.79
528.00	2.79
528.20	2.79
528.40	2.79
528.60	2.79
528.80	2.79
529.00	2.79
529.20	2.79
529.40	2.79
529.60	2.79
529.80	2.79
530.00	2.79
530.20	2.79
530.40	2.79
530.60	2.79
530.80	2.80
531.00	2.80
531.20	2.80
531.40	2.80
531.60	2.80
531.80	2.80
532.00	2.80
532.20	2.80
532.40	2.80
532.60	2.80
532.80	2.80
533.00	2.80
533.20	2.80
533.40	2.80
533.60	2.80
533.80	2.81
534.00	2.81
534.20	2.81
534.40	2.81
534.60	2.81
534.80	2.81
535.00	2.81
535.20	2.81
535.40	2.81
535.60	2.81
535.80	2.81
536.00	2.81
536.20	2.81
536.40	2.81
536.60	2.81
536.80	2.82
537.00	2.82
537.20	2.82
537.40	2.82
537.60	2.82
537.80	2.82
538.00	2.82
538.20	2.82
538.40	2.82

538.60	2.82
538.80	2.82
539.00	2.82
539.20	2.82
539.40	2.82
539.60	2.82
539.80	2.83
540.00	2.83
540.20	2.83
540.40	2.83
540.60	2.83
540.80	2.83
541.00	2.83
541.20	2.83
541.40	2.83
541.60	2.83
541.80	2.83
542.00	2.83
542.20	2.83
542.40	2.83
542.60	2.83
542.80	2.84
543.00	2.84
543.20	2.84
543.40	2.84
543.60	2.84
543.80	2.84
544.00	2.84
544.20	2.84
544.40	2.84
544.60	2.84
544.80	2.84
545.00	2.84
545.20	2.84
545.40	2.84
545.60	2.85
545.80	2.85
546.00	2.85
546.20	2.85
546.40	2.85
546.60	2.85
546.80	2.85
547.00	2.85
547.20	2.85
547.40	2.85
547.60	2.85
547.80	2.85
548.00	2.85
548.20	2.85
548.40	2.85
548.60	2.86
548.80	2.86
549.00	2.86
549.20	2.86
549.40	2.86
549.60	2.86
549.80	2.86
550.00	2.86
550.20	2.86
550.40	2.86
550.60	2.86
550.80	2.86
551.00	2.86
551.20	2.86
551.40	2.87
551.60	2.87

551.80	2.87
552.00	2.87
552.20	2.87
552.40	2.87
552.60	2.87
552.80	2.87
553.00	2.87
553.20	2.87
553.40	2.87
553.60	2.87
553.80	2.87
554.00	2.87
554.20	2.88
554.40	2.88
554.60	2.88
554.80	2.88
555.00	2.88
555.20	2.88
555.40	2.88
555.60	2.88
555.80	2.88
556.00	2.88
556.20	2.88
556.40	2.88
556.60	2.88
556.80	2.88
557.00	2.89
557.20	2.89
557.40	2.89
557.60	2.89
557.80	2.89
558.00	2.89
558.20	2.89
558.40	2.89
558.60	2.89
558.80	2.89
559.00	2.89
559.20	2.89
559.40	2.89
559.60	2.89
559.80	2.90
560.00	2.90
560.20	2.90
560.40	2.90
560.60	2.90
560.80	2.90
561.00	2.90
561.20	2.90
561.40	2.90
561.60	2.90
561.80	2.90
562.00	2.90
562.20	2.90
562.40	2.90
562.60	2.91
562.80	2.91
563.00	2.91
563.20	2.91
563.40	2.91
563.60	2.91
563.80	2.91
564.00	2.91
564.20	2.91
564.40	2.91
564.60	2.91
564.80	2.91

565.00	2.91
565.20	2.92
565.40	2.92
565.60	2.92
565.80	2.92
566.00	2.92
566.20	2.92
566.40	2.92
566.60	2.92
566.80	2.92
567.00	2.92
567.20	2.92
567.40	2.92
567.60	2.92
567.80	2.92
568.00	2.93
568.20	2.93
568.40	2.93
568.60	2.93
568.80	2.93
569.00	2.93
569.20	2.93
569.40	2.93
569.60	2.93
569.80	2.93
570.00	2.93
570.20	2.93
570.40	2.93
570.60	2.94
570.80	2.94
571.00	2.94
571.20	2.94
571.40	2.94
571.60	2.94
571.80	2.94
572.00	2.94
572.20	2.94
572.40	2.94
572.60	2.94
572.80	2.94
573.00	2.94
573.20	2.94
573.40	2.95
573.60	2.95
573.80	2.95
574.00	2.95
574.20	2.95
574.40	2.95
574.60	2.95
574.80	2.95
575.00	2.95
575.20	2.95
575.40	2.95
575.60	2.95
575.80	2.95
576.00	2.96
576.20	2.96
576.40	2.96
576.60	2.96
576.80	2.96
577.00	2.96
577.20	2.96
577.40	2.96
577.60	2.96
577.80	2.96
578.00	2.96

578.20	2.96
578.40	2.96
578.60	2.97
578.80	2.97
579.00	2.97
579.20	2.97
579.40	2.97
579.60	2.97
579.80	2.97
580.00	2.97
580.20	2.97
580.40	2.97
580.60	2.97
580.80	2.97
581.00	2.97
581.20	2.98
581.40	2.98
581.60	2.98
581.80	2.98
582.00	2.98
582.20	2.98
582.40	2.98
582.60	2.98
582.80	2.98
583.00	2.98
583.20	2.98
583.40	2.98
583.60	2.98
583.80	2.99
584.00	2.99
584.20	2.99
584.40	2.99
584.60	2.99
584.80	2.99
585.00	2.99
585.20	2.99
585.40	2.99
585.60	2.99
585.80	2.99
586.00	2.99
586.20	2.99
586.40	3.00
586.60	3.00
586.80	3.00
587.00	3.00
587.20	3.00
587.40	3.00
587.60	3.00
587.80	3.00
588.00	3.00
588.20	3.00
588.40	3.00
588.60	3.00
588.80	3.00
589.00	3.01
589.20	3.01
589.40	3.01
589.60	3.01
589.80	3.01
590.00	3.01
590.20	3.01
590.40	3.01
590.60	3.01
590.80	3.01
591.00	3.01
591.20	3.01

591.40	3.02
591.60	3.02
591.80	3.02
592.00	3.02
592.20	3.02
592.40	3.02
592.60	3.02
592.80	3.02
593.00	3.02
593.20	3.02
593.40	3.02
593.60	3.02
593.80	3.02
594.00	3.03
594.20	3.03
594.40	3.03
594.60	3.03
594.80	3.03
595.00	3.03
595.20	3.03
595.40	3.03
595.60	3.03
595.80	3.03
596.00	3.03
596.20	3.03
596.40	3.04
596.60	3.04
596.80	3.04
597.00	3.04
597.20	3.04
597.40	3.04
597.60	3.04
597.80	3.04
598.00	3.04
598.20	3.04
598.40	3.04
598.60	3.04
598.80	3.04
599.00	3.05
599.20	3.05
599.40	3.05
599.60	3.05
599.80	3.05
600.00	3.05
600.20	3.05
600.40	3.05
600.60	3.05
600.80	3.05
601.00	3.05
601.20	3.05
601.40	3.06
601.60	3.06
601.80	3.06
602.00	3.06
602.20	3.06
602.40	3.06
602.60	3.06
602.80	3.06
603.00	3.06
603.20	3.06
603.40	3.06
603.60	3.06
603.80	3.07
604.00	3.07
604.20	3.07
604.40	3.07

604.60	3.07
604.80	3.07
605.00	3.07
605.20	3.07
605.40	3.07
605.60	3.07
605.80	3.07
606.00	3.07
606.20	3.08
606.40	3.08
606.60	3.08
606.80	3.08
607.00	3.08
607.20	3.08
607.40	3.08
607.60	3.08
607.80	3.08
608.00	3.08
608.20	3.08
608.40	3.08
608.60	3.09
608.80	3.09
609.00	3.09
609.20	3.09
609.40	3.09
609.60	3.09
609.80	3.09
610.00	3.09
610.20	3.09
610.40	3.09
610.60	3.09
610.80	3.10
611.00	3.10
611.20	3.10
611.40	3.10
611.60	3.10
611.80	3.10
612.00	3.10
612.20	3.10
612.40	3.10
612.60	3.10
612.80	3.10
613.00	3.10
613.20	3.11
613.40	3.11
613.60	3.11
613.80	3.11
614.00	3.11
614.20	3.11
614.40	3.11
614.60	3.11
614.80	3.11
615.00	3.11
615.20	3.11
615.40	3.11
615.60	3.12
615.80	3.12
616.00	3.12
616.20	3.12
616.40	3.12
616.60	3.12
616.80	3.12
617.00	3.12
617.20	3.12
617.40	3.12
617.60	3.12

617.80	3.13
618.00	3.13
618.20	3.13
618.40	3.13
618.60	3.13
618.80	3.13
619.00	3.13
619.20	3.13
619.40	3.13
619.60	3.13
619.80	3.13
620.00	3.13
620.20	3.14
620.40	3.14
620.60	3.14
620.80	3.14
621.00	3.14
621.20	3.14
621.40	3.14
621.60	3.14
621.80	3.14
622.00	3.14
622.20	3.14
622.40	3.15
622.60	3.15
622.80	3.15
623.00	3.15
623.20	3.15
623.40	3.15
623.60	3.15
623.80	3.15
624.00	3.15
624.20	3.15
624.40	3.15
624.60	3.15
624.80	3.16
625.00	3.16
625.20	3.16
625.40	3.16
625.60	3.16
625.80	3.16
626.00	3.16
626.20	3.16
626.40	3.16
626.60	3.16
626.80	3.16
627.00	3.17
627.20	3.17
627.40	3.17
627.60	3.17
627.80	3.17
628.00	3.17
628.20	3.17
628.40	3.17
628.60	3.17
628.80	3.17
629.00	3.17
629.20	3.18
629.40	3.18
629.60	3.18
629.80	3.18
630.00	3.18
630.20	3.18
630.40	3.18
630.60	3.18
630.80	3.18

631.00	3.18
631.20	3.18
631.40	3.19
631.60	3.19
631.80	3.19
632.00	3.19
632.20	3.19
632.40	3.19
632.60	3.19
632.80	3.19
633.00	3.19
633.20	3.19
633.40	3.19
633.60	3.20
633.80	3.20
634.00	3.20
634.20	3.20
634.40	3.20
634.60	3.20
634.80	3.20
635.00	3.20
635.20	3.20
635.40	3.20
635.60	3.20
635.80	3.21
636.00	3.21
636.20	3.21
636.40	3.21
636.60	3.21
636.80	3.21
637.00	3.21
637.20	3.21
637.40	3.21
637.60	3.21
637.80	3.21
638.00	3.22
638.20	3.22
638.40	3.22
638.60	3.22
638.80	3.22
639.00	3.22
639.20	3.22
639.40	3.22
639.60	3.22
639.80	3.22
640.00	3.23
640.20	3.23
640.40	3.23
640.60	3.23
640.80	3.23
641.00	3.23
641.20	3.23
641.40	3.23
641.60	3.23
641.80	3.23
642.00	3.23
642.20	3.24
642.40	3.24
642.60	3.24
642.80	3.24
643.00	3.24
643.20	3.24
643.40	3.24
643.60	3.24
643.80	3.24
644.00	3.24

644.20	3.25
644.40	3.25
644.60	3.25
644.80	3.25
645.00	3.25
645.20	3.25
645.40	3.25
645.60	3.25
645.80	3.25
646.00	3.25
646.20	3.25
646.40	3.26
646.60	3.26
646.80	3.26
647.00	3.26
647.20	3.26
647.40	3.26
647.60	3.26
647.80	3.26
648.00	3.26
648.20	3.26
648.40	3.27
648.60	3.27
648.80	3.27
649.00	3.27
649.20	3.27
649.40	3.27
649.60	3.27
649.80	3.27
650.00	3.27
650.20	3.27
650.40	3.27
650.60	3.28
650.80	3.28
651.00	3.28
651.20	3.28
651.40	3.28
651.60	3.28
651.80	3.28
652.00	3.28
652.20	3.28
652.40	3.28
652.60	3.29
652.80	3.29
653.00	3.29
653.20	3.29
653.40	3.29
653.60	3.29
653.80	3.29
654.00	3.29
654.20	3.29
654.40	3.29
654.60	3.30
654.80	3.30
655.00	3.30
655.20	3.30
655.40	3.30
655.60	3.30
655.80	3.30
656.00	3.30
656.20	3.30
656.40	3.30
656.60	3.31
656.80	3.31
657.00	3.31
657.20	3.31

657.40	3.31
657.60	3.31
657.80	3.31
658.00	3.31
658.20	3.31
658.40	3.31
658.60	3.32
658.80	3.32
659.00	3.32
659.20	3.32
659.40	3.32
659.60	3.32
659.80	3.32
660.00	3.32
660.20	3.32
660.40	3.32
660.60	3.33
660.80	3.33
661.00	3.33
661.20	3.33
661.40	3.33
661.60	3.33
661.80	3.33
662.00	3.33
662.20	3.33
662.40	3.33
662.60	3.34
662.80	3.34
663.00	3.34
663.20	3.34
663.40	3.34
663.60	3.34
663.80	3.34
664.00	3.34
664.20	3.34
664.40	3.34
664.60	3.35
664.80	3.35
665.00	3.35
665.20	3.35
665.40	3.35
665.60	3.35
665.80	3.35
666.00	3.35
666.20	3.35
666.40	3.36
666.60	3.36
666.80	3.36
667.00	3.36
667.20	3.36
667.40	3.36
667.60	3.36
667.80	3.36
668.00	3.36
668.20	3.36
668.40	3.37
668.60	3.37
668.80	3.37
669.00	3.37
669.20	3.37
669.40	3.37
669.60	3.37
669.80	3.37
670.00	3.37
670.20	3.37
670.40	3.38

670.60	3.38
670.80	3.38
671.00	3.38
671.20	3.38
671.40	3.38
671.60	3.38
671.80	3.38
672.00	3.38
672.20	3.39
672.40	3.39
672.60	3.39
672.80	3.39
673.00	3.39
673.20	3.39
673.40	3.39
673.60	3.39
673.80	3.39
674.00	3.40
674.20	3.40
674.40	3.40
674.60	3.40
674.80	3.40
675.00	3.40
675.20	3.40
675.40	3.40
675.60	3.40
675.80	3.40
676.00	3.41
676.20	3.41
676.40	3.41
676.60	3.41
676.80	3.41
677.00	3.41
677.20	3.41
677.40	3.41
677.60	3.41
677.80	3.42
678.00	3.42
678.20	3.42
678.40	3.42
678.60	3.42
678.80	3.42
679.00	3.42
679.20	3.42
679.40	3.42
679.60	3.42
679.80	3.43
680.00	3.43
680.20	3.43
680.40	3.43
680.60	3.43
680.80	3.43
681.00	3.43
681.20	3.43
681.40	3.43
681.60	3.44
681.80	3.44
682.00	3.44
682.20	3.44
682.40	3.44
682.60	3.44
682.80	3.44
683.00	3.44
683.20	3.44
683.40	3.45
683.60	3.45

683.80	3.45
684.00	3.45
684.20	3.45
684.40	3.45
684.60	3.45
684.80	3.45
685.00	3.45
685.20	3.46
685.40	3.46
685.60	3.46
685.80	3.46
686.00	3.46
686.20	3.46
686.40	3.46
686.60	3.46
686.80	3.46
687.00	3.47
687.20	3.47
687.40	3.47
687.60	3.47
687.80	3.47
688.00	3.47
688.20	3.47
688.40	3.47
688.60	3.47
688.80	3.48
689.00	3.48
689.20	3.48
689.40	3.48
689.60	3.48
689.80	3.48
690.00	3.48
690.20	3.48
690.40	3.48
690.60	3.49
690.80	3.49
691.00	3.49
691.20	3.49
691.40	3.49
691.60	3.49
691.80	3.49
692.00	3.49
692.20	3.50
692.40	3.50
692.60	3.50
692.80	3.50
693.00	3.50
693.20	3.50
693.40	3.50
693.60	3.50
693.80	3.50
694.00	3.51
694.20	3.51
694.40	3.51
694.60	3.51
694.80	3.51
695.00	3.51
695.20	3.51
695.40	3.51
695.60	3.51
695.80	3.52
696.00	3.52
696.20	3.52
696.40	3.52
696.60	3.52
696.80	3.52

697.00	3.52
697.20	3.52
697.40	3.52
697.60	3.53
697.80	3.53
698.00	3.53
698.20	3.53
698.40	3.53
698.60	3.53
698.80	3.53
699.00	3.53
699.20	3.54
699.40	3.54
699.60	3.54
699.80	3.54
700.00	3.54
700.20	3.54
700.40	3.54
700.60	3.54
700.80	3.54
701.00	3.55
701.20	3.55
701.40	3.55
701.60	3.55
701.80	3.55
702.00	3.55
702.20	3.55
702.40	3.55
702.60	3.56
702.80	3.56
703.00	3.56
703.20	3.56
703.40	3.56
703.60	3.56
703.80	3.56
704.00	3.56
704.20	3.57
704.40	3.57
704.60	3.57
704.80	3.57
705.00	3.57
705.20	3.57
705.40	3.57
705.60	3.57
705.80	3.57
706.00	3.58
706.20	3.58
706.40	3.58
706.60	3.58
706.80	3.58
707.00	3.58
707.20	3.58
707.40	3.58
707.60	3.59
707.80	3.59
708.00	3.59
708.20	3.59
708.40	3.59
708.60	3.59
708.80	3.59
709.00	3.59
709.20	3.60
709.40	3.60
709.60	3.60
709.80	3.60
710.00	3.60

710.20	3.60
710.40	3.60
710.60	3.60
710.80	3.61
711.00	3.61
711.20	3.61
711.40	3.61
711.60	3.61
711.80	3.61
712.00	3.61
712.20	3.61
712.40	3.61
712.60	3.62
712.80	3.62
713.00	3.62
713.20	3.62
713.40	3.62
713.60	3.62
713.80	3.62
714.00	3.62
714.20	3.63
714.40	3.63
714.60	3.63
714.80	3.63
715.00	3.63
715.20	3.63
715.40	3.63
715.60	3.63
715.80	3.64
716.00	3.64
716.20	3.64
716.40	3.64
716.60	3.64
716.80	3.64
717.00	3.64
717.20	3.64
717.40	3.65
717.60	3.65
717.80	3.65
718.00	3.65
718.20	3.65
718.40	3.65
718.60	3.65
718.80	3.65
719.00	3.66
719.20	3.66
719.40	3.66
719.60	3.66
719.80	3.66
720.00	3.66
720.20	3.66
720.40	3.67
720.60	3.67
720.80	3.67
721.00	3.67
721.20	3.67
721.40	3.67
721.60	3.67
721.80	3.67
722.00	3.68
722.20	3.68
722.40	3.68
722.60	3.68
722.80	3.68
723.00	3.68
723.20	3.68

723.40	3.68
723.60	3.69
723.80	3.69
724.00	3.69
724.20	3.69
724.40	3.69
724.60	3.69
724.80	3.69
725.00	3.69
725.20	3.70
725.40	3.70
725.60	3.70
725.80	3.70
726.00	3.70
726.20	3.70
726.40	3.70
726.60	3.71
726.80	3.71
727.00	3.71
727.20	3.71
727.40	3.71
727.60	3.71
727.80	3.71
728.00	3.71
728.20	3.72
728.40	3.72
728.60	3.72
728.80	3.72
729.00	3.72
729.20	3.72
729.40	3.72
729.60	3.73
729.80	3.73
730.00	3.73
730.20	3.73
730.40	3.73
730.60	3.73
730.80	3.73
731.00	3.73
731.20	3.74
731.40	3.74
731.60	3.74
731.80	3.74
732.00	3.74
732.20	3.74
732.40	3.74
732.60	3.75
732.80	3.75
733.00	3.75
733.20	3.75
733.40	3.75
733.60	3.75
733.80	3.75
734.00	3.75
734.20	3.76
734.40	3.76
734.60	3.76
734.80	3.76
735.00	3.76
735.20	3.76
735.40	3.76
735.60	3.77
735.80	3.77
736.00	3.77
736.20	3.77
736.40	3.77

736.60	3.77
736.80	3.77
737.00	3.77
737.20	3.78
737.40	3.78
737.60	3.78
737.80	3.78
738.00	3.78
738.20	3.78
738.40	3.78
738.60	3.79
738.80	3.79
739.00	3.79
739.20	3.79
739.40	3.79
739.60	3.79
739.80	3.79
740.00	3.80
740.20	3.80
740.40	3.80
740.60	3.80
740.80	3.80
741.00	3.80
741.20	3.80
741.40	3.81
741.60	3.81
741.80	3.81
742.00	3.81
742.20	3.81
742.40	3.81
742.60	3.81
742.80	3.82
743.00	3.82
743.20	3.82
743.40	3.82
743.60	3.82
743.80	3.82
744.00	3.82
744.20	3.83
744.40	3.83
744.60	3.83
744.80	3.83
745.00	3.83
745.20	3.83
745.40	3.83
745.60	3.84
745.80	3.84
746.00	3.84
746.20	3.84
746.40	3.84
746.60	3.84
746.80	3.84
747.00	3.85
747.20	3.85
747.40	3.85
747.60	3.85
747.80	3.85
748.00	3.85
748.20	3.85
748.40	3.86
748.60	3.86
748.80	3.86
749.00	3.86
749.20	3.86
749.40	3.86
749.60	3.86

749.80	3.87
750.00	3.87
750.20	3.87
750.40	3.87
750.60	3.87
750.80	3.87
751.00	3.87
751.20	3.88
751.40	3.88
751.60	3.88
751.80	3.88
752.00	3.88
752.20	3.88
752.40	3.88
752.60	3.89
752.80	3.89
753.00	3.89
753.20	3.89
753.40	3.89
753.60	3.89
753.80	3.89
754.00	3.90
754.20	3.90
754.40	3.90
754.60	3.90
754.80	3.90
755.00	3.90
755.20	3.90
755.40	3.91
755.60	3.91
755.80	3.91
756.00	3.91
756.20	3.91
756.40	3.91
756.60	3.92
756.80	3.92
757.00	3.92
757.20	3.92
757.40	3.92
757.60	3.92
757.80	3.92
758.00	3.93
758.20	3.93
758.40	3.93
758.60	3.93
758.80	3.93
759.00	3.93
759.20	3.94
759.40	3.94
759.60	3.94
759.80	3.94
760.00	3.94
760.20	3.94
760.40	3.94
760.60	3.95
760.80	3.95
761.00	3.95
761.20	3.95
761.40	3.95
761.60	3.95
761.80	3.95
762.00	3.96
762.20	3.96
762.40	3.96
762.60	3.96
762.80	3.96

763.00	3.96
763.20	3.97
763.40	3.97
763.60	3.97
763.80	3.97
764.00	3.97
764.20	3.97
764.40	3.97
764.60	3.98
764.80	3.98
765.00	3.98
765.20	3.98
765.40	3.98
765.60	3.98
765.80	3.99
766.00	3.99
766.20	3.99
766.40	3.99
766.60	3.99
766.80	3.99
767.00	4.00
767.20	4.00
767.40	4.00
767.60	4.00
767.80	4.00
768.00	4.00
768.20	4.00
768.40	4.01
768.60	4.01
768.80	4.01
769.00	4.01
769.20	4.01
769.40	4.01
769.60	4.02
769.80	4.02
770.00	4.02
770.20	4.02
770.40	4.02
770.60	4.02
770.80	4.03
771.00	4.03
771.20	4.03
771.40	4.03
771.60	4.03
771.80	4.03
772.00	4.03
772.20	4.04
772.40	4.04
772.60	4.04
772.80	4.04
773.00	4.04
773.20	4.04
773.40	4.05
773.60	4.05
773.80	4.05
774.00	4.05
774.20	4.05
774.40	4.05
774.60	4.06
774.80	4.06
775.00	4.06
775.20	4.06
775.40	4.06
775.60	4.06
775.80	4.07
776.00	4.07

776.20	4.07
776.40	4.07
776.60	4.07
776.80	4.07
777.00	4.08
777.20	4.08
777.40	4.08
777.60	4.08
777.80	4.08
778.00	4.08
778.20	4.09
778.40	4.09
778.60	4.09
778.80	4.09
779.00	4.09
779.20	4.09
779.40	4.10
779.60	4.10
779.80	4.10
780.00	4.10
780.20	4.10
780.40	4.10
780.60	4.11
780.80	4.11
781.00	4.11
781.20	4.11
781.40	4.11
781.60	4.11
781.80	4.12
782.00	4.12
782.20	4.12
782.40	4.12
782.60	4.12
782.80	4.12
783.00	4.13
783.20	4.13
783.40	4.13
783.60	4.13
783.80	4.13
784.00	4.13
784.20	4.14
784.40	4.14
784.60	4.14
784.80	4.14
785.00	4.14
785.20	4.14
785.40	4.15
785.60	4.15
785.80	4.15
786.00	4.15
786.20	4.15
786.40	4.15
786.60	4.16
786.80	4.16
787.00	4.16
787.20	4.16
787.40	4.16
787.60	4.17
787.80	4.17
788.00	4.17
788.20	4.17
788.40	4.17
788.60	4.17
788.80	4.18
789.00	4.18
789.20	4.18

789.40	4.18
789.60	4.18
789.80	4.18
790.00	4.19
790.20	4.19
790.40	4.19
790.60	4.19
790.80	4.19
791.00	4.19
791.20	4.20
791.40	4.20
791.60	4.20
791.80	4.20
792.00	4.20
792.20	4.21
792.40	4.21
792.60	4.21
792.80	4.21
793.00	4.21
793.20	4.21
793.40	4.22
793.60	4.22
793.80	4.22
794.00	4.22
794.20	4.22
794.40	4.23
794.60	4.23
794.80	4.23
795.00	4.23
795.20	4.23
795.40	4.23
795.60	4.24
795.80	4.24
796.00	4.24
796.20	4.24
796.40	4.24
796.60	4.25
796.80	4.25
797.00	4.25
797.20	4.25
797.40	4.25
797.60	4.25
797.80	4.26
798.00	4.26
798.20	4.26
798.40	4.26
798.60	4.26
798.80	4.27
799.00	4.27
799.20	4.27
799.40	4.27
799.60	4.27
799.80	4.27
800.00	4.28
800.20	4.28
800.40	4.28
800.60	4.28
800.80	4.28
801.00	4.29
801.20	4.29
801.40	4.29
801.60	4.29
801.80	4.29
802.00	4.29
802.20	4.30
802.40	4.30

802.60	4.30
802.80	4.30
803.00	4.30
803.20	4.31
803.40	4.31
803.60	4.31
803.80	4.31
804.00	4.31
804.20	4.32
804.40	4.32
804.60	4.32
804.80	4.32
805.00	4.32
805.20	4.32
805.40	4.33
805.60	4.33
805.80	4.33
806.00	4.33
806.20	4.33
806.40	4.34
806.60	4.34
806.80	4.34
807.00	4.34
807.20	4.34
807.40	4.35
807.60	4.35
807.80	4.35
808.00	4.35
808.20	4.35
808.40	4.36
808.60	4.36
808.80	4.36
809.00	4.36
809.20	4.36
809.40	4.37
809.60	4.37
809.80	4.37
810.00	4.37
810.20	4.37
810.40	4.37
810.60	4.38
810.80	4.38
811.00	4.38
811.20	4.38
811.40	4.38
811.60	4.39
811.80	4.39
812.00	4.39
812.20	4.39
812.40	4.39
812.60	4.40
812.80	4.40
813.00	4.40
813.20	4.40
813.40	4.40
813.60	4.41
813.80	4.41
814.00	4.41
814.20	4.41
814.40	4.41
814.60	4.42
814.80	4.42
815.00	4.42
815.20	4.42
815.40	4.42
815.60	4.43

815.80	4.43
816.00	4.43
816.20	4.43
816.40	4.43
816.60	4.44
816.80	4.44
817.00	4.44
817.20	4.44
817.40	4.44
817.60	4.45
817.80	4.45
818.00	4.45
818.20	4.45
818.40	4.45
818.60	4.46
818.80	4.46
819.00	4.46
819.20	4.46
819.40	4.46
819.60	4.47
819.80	4.47
820.00	4.47
820.20	4.47
820.40	4.47
820.60	4.48
820.80	4.48
821.00	4.48
821.20	4.48
821.40	4.49
821.60	4.49
821.80	4.49
822.00	4.49
822.20	4.49
822.40	4.50
822.60	4.50
822.80	4.50
823.00	4.50
823.20	4.50
823.40	4.51
823.60	4.51
823.80	4.51
824.00	4.51
824.20	4.51
824.40	4.52
824.60	4.52
824.80	4.52
825.00	4.52
825.20	4.53
825.40	4.53
825.60	4.53
825.80	4.53
826.00	4.53
826.20	4.54
826.40	4.54
826.60	4.54
826.80	4.54
827.00	4.54
827.20	4.55
827.40	4.55
827.60	4.55
827.80	4.55
828.00	4.55
828.20	4.56
828.40	4.56
828.60	4.56
828.80	4.56

829.00	4.57
829.20	4.57
829.40	4.57
829.60	4.57
829.80	4.57
830.00	4.58
830.20	4.58
830.40	4.58
830.60	4.58
830.80	4.59
831.00	4.59
831.20	4.59
831.40	4.59
831.60	4.59
831.80	4.60
832.00	4.60
832.20	4.60
832.40	4.60
832.60	4.60
832.80	4.61
833.00	4.61
833.20	4.61
833.40	4.61
833.60	4.62
833.80	4.62
834.00	4.62
834.20	4.62
834.40	4.62
834.60	4.63
834.80	4.63
835.00	4.63
835.20	4.63
835.40	4.64
835.60	4.64
835.80	4.64
836.00	4.64
836.20	4.64
836.40	4.65
836.60	4.65
836.80	4.65
837.00	4.65
837.20	4.66
837.40	4.66
837.60	4.66
837.80	4.66
838.00	4.66
838.20	4.66
838.40	4.67
838.60	4.67
838.80	4.67
839.00	4.67
839.20	4.67
839.40	4.67
839.60	4.68
839.80	4.68
840.00	4.68
840.20	4.68
840.40	4.68
840.60	4.69
840.80	4.69
841.00	4.69
841.20	4.69
841.40	4.69
841.60	4.69
841.80	4.70
842.00	4.70

842.20	4.70
842.40	4.70
842.60	4.70
842.80	4.70
843.00	4.71
843.20	4.71
843.40	4.71
843.60	4.71
843.80	4.71
844.00	4.72
844.20	4.72
844.40	4.72
844.60	4.72
844.80	4.72
845.00	4.72
845.20	4.73
845.40	4.73
845.60	4.73
845.80	4.73
846.00	4.73
846.20	4.73
846.40	4.74
846.60	4.74
846.80	4.74
847.00	4.74
847.20	4.74
847.40	4.75
847.60	4.75
847.80	4.75
848.00	4.75
848.20	4.75
848.40	4.75
848.60	4.76
848.80	4.76
849.00	4.76
849.20	4.76
849.40	4.76
849.60	4.77
849.80	4.77
850.00	4.77
850.20	4.77
850.40	4.77
850.60	4.77
850.80	4.78
851.00	4.78
851.20	4.78
851.40	4.78
851.60	4.78
851.80	4.79
852.00	4.79
852.20	4.79
852.40	4.79
852.60	4.79
852.80	4.79
853.00	4.80
853.20	4.80
853.40	4.80
853.60	4.80
853.80	4.80
854.00	4.81
854.20	4.81
854.40	4.81
854.60	4.81
854.80	4.81
855.00	4.82
855.20	4.82

855.40	4.82
855.60	4.82
855.80	4.82
856.00	4.82
856.20	4.83
856.40	4.83
856.60	4.83
856.80	4.83
857.00	4.83
857.20	4.84
857.40	4.84
857.60	4.84
857.80	4.84
858.00	4.84
858.20	4.85
858.40	4.85
858.60	4.85
858.80	4.85
859.00	4.85
859.20	4.86
859.40	4.86
859.60	4.86
859.80	4.86
860.00	4.86
860.20	4.87
860.40	4.87
860.60	4.87
860.80	4.87
861.00	4.87
861.20	4.87
861.40	4.88
861.60	4.88
861.80	4.88
862.00	4.88
862.20	4.88
862.40	4.89
862.60	4.89
862.80	4.89
863.00	4.89
863.20	4.89
863.40	4.90
863.60	4.90
863.80	4.90
864.00	4.90
864.20	4.90
864.40	4.91
864.60	4.91
864.80	4.91
865.00	4.91
865.20	4.91
865.40	4.92
865.60	4.92
865.80	4.92
866.00	4.92
866.20	4.92
866.40	4.93
866.60	4.93
866.80	4.93
867.00	4.93
867.20	4.93
867.40	4.94
867.60	4.94
867.80	4.94
868.00	4.94
868.20	4.94
868.40	4.95

868.60	4.95
868.80	4.95
869.00	4.95
869.20	4.95
869.40	4.96
869.60	4.96
869.80	4.96
870.00	4.96
870.20	4.96
870.40	4.97
870.60	4.97
870.80	4.97
871.00	4.97
871.20	4.97
871.40	4.98
871.60	4.98
871.80	4.98
872.00	4.98
872.20	4.99
872.40	4.99
872.60	4.99
872.80	4.99
873.00	4.99
873.20	5.00
873.40	5.00
873.60	5.00
873.80	5.00
874.00	5.00
874.20	5.01
874.40	5.01
874.60	5.01
874.80	5.01
875.00	5.01
875.20	5.02
875.40	5.02
875.60	5.02
875.80	5.02
876.00	5.02
876.20	5.03
876.40	5.03
876.60	5.03
876.80	5.03
877.00	5.04
877.20	5.04
877.40	5.04
877.60	5.04
877.80	5.04
878.00	5.05
878.20	5.05
878.40	5.05
878.60	5.05
878.80	5.05
879.00	5.06
879.20	5.06
879.40	5.06
879.60	5.06
879.80	5.07
880.00	5.07
880.20	5.07
880.40	5.07
880.60	5.07
880.80	5.08
881.00	5.08
881.20	5.08
881.40	5.08
881.60	5.09

881.80	5.09
882.00	5.09
882.20	5.09
882.40	5.09
882.60	5.10
882.80	5.10
883.00	5.10
883.20	5.10
883.40	5.11
883.60	5.11
883.80	5.11
884.00	5.11
884.20	5.11
884.40	5.12
884.60	5.12
884.80	5.12
885.00	5.12
885.20	5.13
885.40	5.13
885.60	5.13
885.80	5.13
886.00	5.13
886.20	5.14
886.40	5.14
886.60	5.14
886.80	5.14
887.00	5.15
887.20	5.15
887.40	5.15
887.60	5.15
887.80	5.15
888.00	5.16
888.20	5.16
888.40	5.16
888.60	5.16
888.80	5.17
889.00	5.17
889.20	5.17
889.40	5.17
889.60	5.17
889.80	5.18
890.00	5.18
890.20	5.18
890.40	5.18
890.60	5.19
890.80	5.19
891.00	5.19
891.20	5.19
891.40	5.20
891.60	5.20
891.80	5.20
892.00	5.20
892.20	5.21
892.40	5.21
892.60	5.21
892.80	5.21
893.00	5.21
893.20	5.22
893.40	5.22
893.60	5.22
893.80	5.22
894.00	5.23
894.20	5.23
894.40	5.23
894.60	5.23
894.80	5.24

895.00	5.24
895.20	5.24
895.40	5.24
895.60	5.25
895.80	5.25
896.00	5.25
896.20	5.25
896.40	5.25
896.60	5.26
896.80	5.26
897.00	5.26
897.20	5.26
897.40	5.27
897.60	5.27
897.80	5.27
898.00	5.27
898.20	5.28
898.40	5.28
898.60	5.28
898.80	5.28
899.00	5.29
899.20	5.29
899.40	5.29
899.60	5.29
899.80	5.30
900.00	5.30
900.20	5.30
900.40	5.30
900.60	5.31
900.80	5.31
901.00	5.31
901.20	5.31
901.40	5.32
901.60	5.32
901.80	5.32
902.00	5.32
902.20	5.33
902.40	5.33
902.60	5.33
902.80	5.33
903.00	5.34
903.20	5.34
903.40	5.34
903.60	5.34
903.80	5.35
904.00	5.35
904.20	5.35
904.40	5.35
904.60	5.36
904.80	5.36
905.00	5.36
905.20	5.36
905.40	5.37
905.60	5.37
905.80	5.37
906.00	5.37
906.20	5.38
906.40	5.38
906.60	5.38
906.80	5.38
907.00	5.39
907.20	5.39
907.40	5.39
907.60	5.39
907.80	5.40
908.00	5.40

908.20	5.40
908.40	5.40
908.60	5.41
908.80	5.41
909.00	5.41
909.20	5.42
909.40	5.42
909.60	5.42
909.80	5.42
910.00	5.43
910.20	5.43
910.40	5.43
910.60	5.43
910.80	5.44
911.00	5.44
911.20	5.44
911.40	5.44
911.60	5.45
911.80	5.45
912.00	5.45
912.20	5.45
912.40	5.46
912.60	5.46
912.80	5.46
913.00	5.47
913.20	5.47
913.40	5.47
913.60	5.47
913.80	5.48
914.00	5.48
914.20	5.48
914.40	5.48
914.60	5.49
914.80	5.49
915.00	5.49
915.20	5.50
915.40	5.50
915.60	5.50
915.80	5.50
916.00	5.51
916.20	5.51
916.40	5.51
916.60	5.51
916.80	5.52
917.00	5.52
917.20	5.52
917.40	5.53
917.60	5.53
917.80	5.53
918.00	5.53
918.20	5.54
918.40	5.54
918.60	5.54
918.80	5.54
919.00	5.55
919.20	5.55
919.40	5.55
919.60	5.56
919.80	5.56
920.00	5.56
920.20	5.56
920.40	5.57
920.60	5.57
920.80	5.57
921.00	5.58
921.20	5.58

921.40	5.58
921.60	5.58
921.80	5.59
922.00	5.59
922.20	5.59
922.40	5.60
922.60	5.60
922.80	5.60
923.00	5.60
923.20	5.61
923.40	5.61
923.60	5.61
923.80	5.62
924.00	5.62
924.20	5.62
924.40	5.62
924.60	5.63
924.80	5.63
925.00	5.63
925.20	5.64
925.40	5.64
925.60	5.64
925.80	5.64
926.00	5.65
926.20	5.65
926.40	5.65
926.60	5.66
926.80	5.66
927.00	5.66
927.20	5.67
927.40	5.67
927.60	5.67
927.80	5.67
928.00	5.68
928.20	5.68
928.40	5.68
928.60	5.69
928.80	5.69
929.00	5.69
929.20	5.70
929.40	5.70
929.60	5.70
929.80	5.70
930.00	5.71
930.20	5.71
930.40	5.71
930.60	5.72
930.80	5.72
931.00	5.72
931.20	5.73
931.40	5.73
931.60	5.73
931.80	5.73
932.00	5.74
932.20	5.74
932.40	5.74
932.60	5.75
932.80	5.75
933.00	5.75
933.20	5.76
933.40	5.76
933.60	5.76
933.80	5.77
934.00	5.77
934.20	5.77
934.40	5.77

934.60	5.78
934.80	5.78
935.00	5.78
935.20	5.79
935.40	5.79
935.60	5.79
935.80	5.80
936.00	5.80
936.20	5.80
936.40	5.81
936.60	5.81
936.80	5.81
937.00	5.82
937.20	5.82
937.40	5.82
937.60	5.83
937.80	5.83
938.00	5.83
938.20	5.84
938.40	5.84
938.60	5.84
938.80	5.84
939.00	5.85
939.20	5.85
939.40	5.85
939.60	5.86
939.80	5.86
940.00	5.86
940.20	5.87
940.40	5.87
940.60	5.87
940.80	5.88
941.00	5.88
941.20	5.88
941.40	5.89
941.60	5.89
941.80	5.89
942.00	5.90
942.20	5.90
942.40	5.90
942.60	5.91
942.80	5.91
943.00	5.91
943.20	5.92
943.40	5.92
943.60	5.92
943.80	5.93
944.00	5.93
944.20	5.93
944.40	5.94
944.60	5.94
944.80	5.94
945.00	5.95
945.20	5.95
945.40	5.95
945.60	5.96
945.80	5.96
946.00	5.96
946.20	5.97
946.40	5.97
946.60	5.97
946.80	5.98
947.00	5.98
947.20	5.99
947.40	5.99
947.60	5.99

947.80	6.00
948.00	6.00
948.20	6.00
948.40	6.01
948.60	6.01
948.80	6.01
949.00	6.02
949.20	6.02
949.40	6.02
949.60	6.03
949.80	6.03
950.00	6.03
950.20	6.04
950.40	6.04
950.60	6.04
950.80	6.05
951.00	6.05
951.20	6.06
951.40	6.06
951.60	6.06
951.80	6.07
952.00	6.07
952.20	6.07
952.40	6.08
952.60	6.08
952.80	6.08
953.00	6.09
953.20	6.09
953.40	6.09
953.60	6.10
953.80	6.10
954.00	6.11
954.20	6.11
954.40	6.11
954.60	6.12
954.80	6.12
955.00	6.12
955.20	6.13
955.40	6.13
955.60	6.13
955.80	6.14
956.00	6.14
956.20	6.15
956.40	6.15
956.60	6.15
956.80	6.16
957.00	6.16
957.20	6.16
957.40	6.17
957.60	6.17
957.80	6.18
958.00	6.18
958.20	6.18
958.40	6.19
958.60	6.19
958.80	6.19
959.00	6.20
959.20	6.20
959.40	6.21
959.60	6.21
959.80	6.21
960.00	6.22
960.20	6.22
960.40	6.23
960.60	6.23
960.80	6.23

961.00	6.24
961.20	6.24
961.40	6.24
961.60	6.25
961.80	6.25
962.00	6.26
962.20	6.26
962.40	6.26
962.60	6.27
962.80	6.27
963.00	6.28
963.20	6.28
963.40	6.28
963.60	6.29
963.80	6.29
964.00	6.30
964.20	6.30
964.40	6.30
964.60	6.31
964.80	6.31
965.00	6.32
965.20	6.32
965.40	6.32
965.60	6.33
965.80	6.33
966.00	6.34
966.20	6.34
966.40	6.34
966.60	6.35
966.80	6.35
967.00	6.36
967.20	6.36
967.40	6.36
967.60	6.37
967.80	6.37
968.00	6.38
968.20	6.38
968.40	6.38
968.60	6.39
968.80	6.39
969.00	6.40
969.20	6.40
969.40	6.41
969.60	6.41
969.80	6.41
970.00	6.42
970.20	6.42
970.40	6.43
970.60	6.43
970.80	6.43
971.00	6.44
971.20	6.44
971.40	6.45
971.60	6.45
971.80	6.46
972.00	6.46
972.20	6.46
972.40	6.47
972.60	6.47
972.80	6.48
973.00	6.48
973.20	6.49
973.40	6.49
973.60	6.49
973.80	6.50
974.00	6.50

974.20	6.51
974.40	6.51
974.60	6.52
974.80	6.52
975.00	6.53
975.20	6.53
975.40	6.53
975.60	6.54
975.80	6.54
976.00	6.55
976.20	6.55
976.40	6.56
976.60	6.56
976.80	6.57
977.00	6.57
977.20	6.57
977.40	6.58
977.60	6.58
977.80	6.59
978.00	6.59
978.20	6.60
978.40	6.60
978.60	6.61
978.80	6.61
979.00	6.61
979.20	6.62
979.40	6.62
979.60	6.63
979.80	6.63
980.00	6.64
980.20	6.64
980.40	6.65
980.60	6.65
980.80	6.66
981.00	6.66
981.20	6.67
981.40	6.67
981.60	6.67
981.80	6.68
982.00	6.68
982.20	6.69
982.40	6.69
982.60	6.70
982.80	6.70
983.00	6.71
983.20	6.71
983.40	6.72
983.60	6.72
983.80	6.73
984.00	6.73
984.20	6.74
984.40	6.74
984.60	6.75
984.80	6.75
985.00	6.75
985.20	6.76
985.40	6.76
985.60	6.77
985.80	6.77
986.00	6.78
986.20	6.78
986.40	6.79
986.60	6.79
986.80	6.80
987.00	6.80
987.20	6.81

987.40	6.81
987.60	6.82
987.80	6.82
988.00	6.83
988.20	6.83
988.40	6.84
988.60	6.84
988.80	6.85
989.00	6.85
989.20	6.86
989.40	6.86
989.60	6.87
989.80	6.87
990.00	6.88
990.20	6.88
990.40	6.89
990.60	6.89
990.80	6.90
991.00	6.90
991.20	6.91
991.40	6.91
991.60	6.92
991.80	6.92
992.00	6.93
992.20	6.93
992.40	6.94
992.60	6.95
992.80	6.95
993.00	6.96
993.20	6.96
993.40	6.97
993.60	6.97
993.80	6.98
994.00	6.98
994.20	6.99
994.40	6.99
994.60	7.00
994.80	7.00
995.00	7.01
995.20	7.01
995.40	7.02
995.60	7.02
995.80	7.03
996.00	7.04
996.20	7.04
996.40	7.05
996.60	7.05
996.80	7.06
997.00	7.06
997.20	7.07
997.40	7.07
997.60	7.08
997.80	7.08
998.00	7.09
998.20	7.10
998.40	7.10
998.60	7.11
998.80	7.11
999.00	7.12
999.20	7.12
999.40	7.13
999.60	7.13
999.80	7.14
1000.00	7.15
1000.20	7.15
1000.40	7.16

1000.60	7.16
1000.80	7.17
1001.00	7.17
1001.20	7.18
1001.40	7.19
1001.60	7.19
1001.80	7.20
1002.00	7.20
1002.20	7.21
1002.40	7.21
1002.60	7.22
1002.80	7.23
1003.00	7.23
1003.20	7.24
1003.40	7.24
1003.60	7.25
1003.80	7.25
1004.00	7.26
1004.20	7.27
1004.40	7.27
1004.60	7.28
1004.80	7.28
1005.00	7.29
1005.20	7.30
1005.40	7.30
1005.60	7.31
1005.80	7.31
1006.00	7.32
1006.20	7.33
1006.40	7.33
1006.60	7.34
1006.80	7.34
1007.00	7.35
1007.20	7.36
1007.40	7.36
1007.60	7.37
1007.80	7.37
1008.00	7.38
1008.20	7.39
1008.40	7.39
1008.60	7.40
1008.80	7.41
1009.00	7.41
1009.20	7.42
1009.40	7.42
1009.60	7.43
1009.80	7.44
1010.00	7.44
1010.20	7.45
1010.40	7.46
1010.60	7.46
1010.80	7.47
1011.00	7.47
1011.20	7.48
1011.40	7.49
1011.60	7.49
1011.80	7.50
1012.00	7.51
1012.20	7.51
1012.40	7.52
1012.60	7.53
1012.80	7.53
1013.00	7.54
1013.20	7.55
1013.40	7.55
1013.60	7.56

1013.80	7.56
1014.00	7.57
1014.20	7.58
1014.40	7.58
1014.60	7.59
1014.80	7.60
1015.00	7.60
1015.20	7.61
1015.40	7.62
1015.60	7.62
1015.80	7.63
1016.00	7.64
1016.20	7.64
1016.40	7.65
1016.60	7.66
1016.80	7.67
1017.00	7.67
1017.20	7.68
1017.40	7.69
1017.60	7.69
1017.80	7.70
1018.00	7.71
1018.20	7.71
1018.40	7.72
1018.60	7.73
1018.80	7.73
1019.00	7.74
1019.20	7.75
1019.40	7.76
1019.60	7.76
1019.80	7.77
1020.00	7.78
1020.20	7.78
1020.40	7.79
1020.60	7.80
1020.80	7.80
1021.00	7.81
1021.20	7.82
1021.40	7.83
1021.60	7.83
1021.80	7.84
1022.00	7.85
1022.20	7.86
1022.40	7.86
1022.60	7.87
1022.80	7.88
1023.00	7.88
1023.20	7.89
1023.40	7.90
1023.60	7.91
1023.80	7.91
1024.00	7.92
1024.20	7.93
1024.40	7.94
1024.60	7.94
1024.80	7.95
1025.00	7.96
1025.20	7.97
1025.40	7.97
1025.60	7.98
1025.80	7.99
1026.00	8.00
1026.20	8.00
1026.40	8.01
1026.60	8.02
1026.80	8.03

1027.00	8.04
1027.20	8.04
1027.40	8.05
1027.60	8.06
1027.80	8.07
1028.00	8.07
1028.20	8.08
1028.40	8.09
1028.60	8.10
1028.80	8.11
1029.00	8.11
1029.20	8.12
1029.40	8.13
1029.60	8.14
1029.80	8.15
1030.00	8.15
1030.20	8.16
1030.40	8.17
1030.60	8.18
1030.80	8.19
1031.00	8.19
1031.20	8.20
1031.40	8.21
1031.60	8.22
1031.80	8.23
1032.00	8.24
1032.20	8.24
1032.40	8.25
1032.60	8.26
1032.80	8.27
1033.00	8.28
1033.20	8.29
1033.40	8.29
1033.60	8.30
1033.80	8.31
1034.00	8.32
1034.20	8.33
1034.40	8.34
1034.60	8.35
1034.80	8.35
1035.00	8.36
1035.20	8.37
1035.40	8.38
1035.60	8.39
1035.80	8.40
1036.00	8.41
1036.20	8.42
1036.40	8.42
1036.60	8.43
1036.80	8.44
1037.00	8.45
1037.20	8.46
1037.40	8.47
1037.60	8.48
1037.80	8.49
1038.00	8.50
1038.20	8.50
1038.40	8.51
1038.60	8.52
1038.80	8.53
1039.00	8.54
1039.20	8.55
1039.40	8.56
1039.60	8.57
1039.80	8.58
1040.00	8.59

1040.20	8.60
1040.40	8.61
1040.60	8.61
1040.80	8.62
1041.00	8.63
1041.20	8.64
1041.40	8.65
1041.60	8.66
1041.80	8.67
1042.00	8.68
1042.20	8.69
1042.40	8.70
1042.60	8.71
1042.80	8.72
1043.00	8.73
1043.20	8.74
1043.40	8.75
1043.60	8.76
1043.80	8.77
1044.00	8.78
1044.20	8.79
1044.40	8.80
1044.60	8.81
1044.80	8.82
1045.00	8.83
1045.20	8.84
1045.40	8.85
1045.60	8.86
1045.80	8.87
1046.00	8.88
1046.20	8.89
1046.40	8.90
1046.60	8.91
1046.80	8.92
1047.00	8.93
1047.20	8.94
1047.40	8.95
1047.60	8.96
1047.80	8.97
1048.00	8.98
1048.20	8.99
1048.40	9.00
1048.60	9.01
1048.80	9.02
1049.00	9.03
1049.20	9.04
1049.40	9.05
1049.60	9.07
1049.80	9.08
1050.00	9.09
1050.20	9.10
1050.40	9.11
1050.60	9.12
1050.80	9.13
1051.00	9.14
1051.20	9.15
1051.40	9.16
1051.60	9.17
1051.80	9.19
1052.00	9.20
1052.20	9.21
1052.40	9.22
1052.60	9.23
1052.80	9.24
1053.00	9.25
1053.20	9.26

1053.40	9.28
1053.60	9.29
1053.80	9.30
1054.00	9.31
1054.20	9.32
1054.40	9.33
1054.60	9.35
1054.80	9.36
1055.00	9.37
1055.20	9.38
1055.40	9.39
1055.60	9.40
1055.80	9.42
1056.00	9.43
1056.20	9.44
1056.40	9.45
1056.60	9.46
1056.80	9.48
1057.00	9.49
1057.20	9.50
1057.40	9.51
1057.60	9.52
1057.80	9.54
1058.00	9.55
1058.20	9.56
1058.40	9.57
1058.60	9.59
1058.80	9.60
1059.00	9.61
1059.20	9.62
1059.40	9.63
1059.60	9.64
1059.80	9.65
1060.00	9.66
1060.20	9.67
1060.40	9.68
1060.60	9.70
1060.80	9.71
1061.00	9.72
1061.20	9.73
1061.40	9.74
1061.60	9.75
1061.80	9.76
1062.00	9.77
1062.20	9.78
1062.40	9.80
1062.60	9.81
1062.80	9.82
1063.00	9.83
1063.20	9.84
1063.40	9.85
1063.60	9.86
1063.80	9.88
1064.00	9.89
1064.20	9.90
1064.40	9.91
1064.60	9.92
1064.80	9.93
1065.00	9.95
1065.20	9.96
1065.40	9.97
1065.60	9.98
1065.80	9.99
1066.00	10.01
1066.20	10.02
1066.40	10.03

1066.60	10.04
1066.80	10.05
1067.00	10.07
1067.20	10.08
1067.40	10.09
1067.60	10.10
1067.80	10.12
1068.00	10.13
1068.20	10.14
1068.40	10.15
1068.60	10.17
1068.80	10.18
1069.00	10.19
1069.20	10.20
1069.40	10.22
1069.60	10.23
1069.80	10.24
1070.00	10.25
1070.20	10.27
1070.40	10.28
1070.60	10.29
1070.80	10.31
1071.00	10.32
1071.20	10.33
1071.40	10.35
1071.60	10.36
1071.80	10.37
1072.00	10.39
1072.20	10.40
1072.40	10.41
1072.60	10.43
1072.80	10.44
1073.00	10.45
1073.20	10.47
1073.40	10.48
1073.60	10.49
1073.80	10.51
1074.00	10.52
1074.20	10.54
1074.40	10.55
1074.60	10.56
1074.80	10.58
1075.00	10.59
1075.20	10.61
1075.40	10.62
1075.60	10.64
1075.80	10.65
1076.00	10.66
1076.20	10.68
1076.40	10.69
1076.60	10.71
1076.80	10.72
1077.00	10.74
1077.20	10.75
1077.40	10.77
1077.60	10.78
1077.80	10.80
1078.00	10.81
1078.20	10.83
1078.40	10.84
1078.60	10.86
1078.80	10.87
1079.00	10.89
1079.20	10.90
1079.40	10.92
1079.60	10.94

1079.80	10.95
1080.00	10.97
1080.20	10.98
1080.40	11.00
1080.60	11.01
1080.80	11.03
1081.00	11.05
1081.20	11.06
1081.40	11.08
1081.60	11.09
1081.80	11.11
1082.00	11.13
1082.20	11.14
1082.40	11.16
1082.60	11.18
1082.80	11.19
1083.00	11.21
1083.20	11.23
1083.40	11.24
1083.60	11.26
1083.80	11.28
1084.00	11.29
1084.20	11.31
1084.40	11.33
1084.60	11.35
1084.80	11.36
1085.00	11.38
1085.20	11.40
1085.40	11.42
1085.60	11.43
1085.80	11.45
1086.00	11.47
1086.20	11.49
1086.40	11.51
1086.60	11.52
1086.80	11.54
1087.00	11.56
1087.20	11.58
1087.40	11.60
1087.60	11.62
1087.80	11.63
1088.00	11.65
1088.20	11.67
1088.40	11.69
1088.60	11.71
1088.80	11.73
1089.00	11.75
1089.20	11.77
1089.40	11.79
1089.60	11.81
1089.80	11.82
1090.00	11.84
1090.20	11.86
1090.40	11.88
1090.60	11.90
1090.80	11.92
1091.00	11.94
1091.20	11.96
1091.40	11.98
1091.60	12.01
1091.80	12.03
1092.00	12.05
1092.20	12.07
1092.40	12.09
1092.60	12.11
1092.80	12.13

1093.00	12.15
1093.20	12.17
1093.40	12.19
1093.60	12.21
1093.80	12.24
1094.00	12.26
1094.20	12.28
1094.40	12.30
1094.60	12.32
1094.80	12.35
1095.00	12.37
1095.20	12.39
1095.40	12.41
1095.60	12.44
1095.80	12.46
1096.00	12.48
1096.20	12.50
1096.40	12.53
1096.60	12.55
1096.80	12.57
1097.00	12.60
1097.20	12.62
1097.40	12.64
1097.60	12.67
1097.80	12.69
1098.00	12.72
1098.20	12.74
1098.40	12.76
1098.60	12.79
1098.80	12.81
1099.00	12.84
1099.20	12.86
1099.40	12.89
1099.60	12.91
1099.80	12.94
1100.00	12.96
1100.20	12.99
1100.40	13.02
1100.60	13.04
1100.80	13.07
1101.00	13.09
1101.20	13.12
1101.40	13.15
1101.60	13.17
1101.80	13.20
1102.00	13.23
1102.20	13.25
1102.40	13.28
1102.60	13.31
1102.80	13.34
1103.00	13.36
1103.20	13.39
1103.40	13.42
1103.60	13.45
1103.80	13.48
1104.00	13.51
1104.20	13.54
1104.40	13.56
1104.60	13.59
1104.80	13.62
1105.00	13.65
1105.20	13.68
1105.40	13.71
1105.60	13.74
1105.80	13.77
1106.00	13.80

1106.20	13.83
1106.40	13.86
1106.60	13.90
1106.80	13.93
1107.00	13.96
1107.20	13.99
1107.40	14.02
1107.60	14.05
1107.80	14.09
1108.00	14.12
1108.20	14.15
1108.40	14.19
1108.60	14.22
1108.80	14.25
1109.00	14.29
1109.20	14.32
1109.40	14.35
1109.60	14.39
1109.80	14.42
1110.00	14.46
1110.20	14.49
1110.40	14.53
1110.60	14.56
1110.80	14.60
1111.00	14.64
1111.20	14.67
1111.40	14.71
1111.60	14.75
1111.80	14.78
1112.00	14.82
1112.20	14.86
1112.40	14.90
1112.60	14.93
1112.80	14.97
1113.00	15.01
1113.20	15.05
1113.40	15.09
1113.60	15.13
1113.80	15.17
1114.00	15.21
1114.20	15.25
1114.40	15.29
1114.60	15.33
1114.80	15.37
1115.00	15.42
1115.20	15.46
1115.40	15.50
1115.60	15.54
1115.80	15.59
1116.00	15.63
1116.20	15.67
1116.40	15.72
1116.60	15.76
1116.80	15.81
1117.00	15.85
1117.20	15.90
1117.40	15.95
1117.60	15.99
1117.80	16.04
1118.00	16.09
1118.20	16.13
1118.40	16.18
1118.60	16.23
1118.80	16.28
1119.00	16.33
1119.20	16.38

1119.40	16.43
1119.60	16.48
1119.80	16.53
1120.00	16.58
1120.20	16.64
1120.40	16.69
1120.60	16.74
1120.80	16.79
1121.00	16.85
1121.20	16.90
1121.40	16.96
1121.60	17.01
1121.80	17.07
1122.00	17.13
1122.20	17.18
1122.40	17.24
1122.60	17.30
1122.80	17.36
1123.00	17.42
1123.20	17.48
1123.40	17.54
1123.60	17.60
1123.80	17.66
1124.00	17.72
1124.20	17.79
1124.40	17.85
1124.60	17.91
1124.80	17.98
1125.00	18.04
1125.20	18.11
1125.40	18.18
1125.60	18.25
1125.80	18.31
1126.00	18.38
1126.20	18.45
1126.40	18.52
1126.60	18.60
1126.80	18.67
1127.00	18.74
1127.20	18.82
1127.40	18.89
1127.60	18.97
1127.80	19.04
1128.00	19.12
1128.20	19.20
1128.40	19.28
1128.60	19.36
1128.80	19.44
1129.00	19.52
1129.20	19.60
1129.40	19.69
1129.60	19.77
1129.80	19.86
1130.00	19.95
1130.20	20.03
1130.40	20.12
1130.60	20.21
1130.80	20.31
1131.00	20.40
1131.20	20.49
1131.40	20.59
1131.60	20.68
1131.80	20.78
1132.00	20.88
1132.20	20.98
1132.40	21.08

1132.60	21.19
1132.80	21.29
1133.00	21.40
1133.20	21.51
1133.40	21.62
1133.60	21.73
1133.80	21.84
1134.00	21.96
1134.20	22.07
1134.40	22.19
1134.60	22.31
1134.80	22.41
1135.00	22.52
1135.20	22.63
1135.40	22.74
1135.60	22.86
1135.80	22.97
1136.00	23.09
1136.20	23.21
1136.40	23.33
1136.60	23.45
1136.80	23.57
1137.00	23.70
1137.20	23.83
1137.40	23.96
1137.60	24.09
1137.80	24.23
1138.00	24.36
1138.20	24.50
1138.40	24.65
1138.60	24.79
1138.80	24.94
1139.00	25.09
1139.20	25.24
1139.40	25.40
1139.60	25.55
1139.80	25.72
1140.00	25.88
1140.20	26.05
1140.40	26.22
1140.60	26.40
1140.80	26.57
1141.00	26.76
1141.20	26.94
1141.40	27.13
1141.60	27.33
1141.80	27.53
1142.00	27.73
1142.20	27.94
1142.40	28.15
1142.60	28.37
1142.80	28.59
1143.00	28.82
1143.20	29.06
1143.40	29.30
1143.60	29.54
1143.80	29.80
1144.00	30.06
1144.20	30.33
1144.40	30.60
1144.60	30.88
1144.80	31.18
1145.00	31.48
1145.20	31.79
1145.40	32.11
1145.60	32.44

1145.80	32.78
1146.00	33.13
1146.20	33.49
1146.40	33.87
1146.60	34.26
1146.80	34.67
1147.00	35.09
1147.20	35.53
1147.40	35.99
1147.60	36.47
1147.80	36.97
1148.00	37.49
1148.20	38.04
1148.40	38.61
1148.60	39.20
1148.80	39.79
1149.00	40.41
1149.20	41.07
1149.40	41.76
1149.60	42.51
1149.80	43.30
1150.00	44.16
1150.20	45.08
1150.40	46.09
1150.60	47.20
1150.80	48.43
1151.00	49.82
1151.20	51.41
1151.40	53.30
1151.60	55.65
1151.80	58.88
1152.00	66.93
1152.20	70.71
1152.40	72.01
1152.60	72.86
1152.80	73.47
1153.00	73.92
1153.20	74.26
1153.40	74.52
1153.60	74.70
1153.80	74.82
1154.00	74.89
1154.20	74.91
1154.40	74.89
1154.60	74.83
1154.80	74.74
1155.00	74.61
1155.20	74.46
1155.40	74.27
1155.60	74.06
1155.80	73.82
1156.00	73.55
1156.20	73.26
1156.40	72.95
1156.60	72.61
1156.80	72.24
1157.00	71.85
1157.20	71.44
1157.40	71.01
1157.60	70.54
1157.80	70.06
1158.00	69.55
1158.20	69.01
1158.40	68.45
1158.60	67.86
1158.80	67.23

1159.00	66.59
1159.20	65.90
1159.40	65.19
1159.60	64.44
1159.80	63.66
1160.00	62.82
1160.20	61.90
1160.40	60.92
1160.60	59.90
1160.80	58.82
1161.00	57.67
1161.20	56.44
1161.40	55.13
1161.60	53.72
1161.80	52.19
1162.00	50.51
1162.20	48.63
1162.40	46.47
1162.60	43.90
1162.80	40.53
1163.00	32.19
1163.20	28.14
1163.40	26.57
1163.60	25.43
1163.80	24.52
1164.00	23.74
1164.20	23.07
1164.40	22.48
1164.60	21.89
1164.80	21.34
1165.00	20.84
1165.20	20.37
1165.40	19.94
1165.60	19.54
1165.80	19.17
1166.00	18.82
1166.20	18.49
1166.40	18.18
1166.60	17.88
1166.80	17.60
1167.00	17.33
1167.20	17.08
1167.40	16.84
1167.60	16.61
1167.80	16.39
1168.00	16.17
1168.20	15.97
1168.40	15.77
1168.60	15.58
1168.80	15.40
1169.00	15.22
1169.20	15.05
1169.40	14.89
1169.60	14.73
1169.80	14.58
1170.00	14.43
1170.20	14.29
1170.40	14.15
1170.60	14.01
1170.80	13.88
1171.00	13.75
1171.20	13.63
1171.40	13.50
1171.60	13.39
1171.80	13.27
1172.00	13.16

1172.20	13.05
1172.40	12.94
1172.60	12.84
1172.80	12.74
1173.00	12.64
1173.20	12.54
1173.40	12.45
1173.60	12.35
1173.80	12.26
1174.00	12.18
1174.20	12.09
1174.40	12.00
1174.60	11.92
1174.80	11.84
1175.00	11.76
1175.20	11.68
1175.40	11.61
1175.60	11.53
1175.80	11.46
1176.00	11.38
1176.20	11.31
1176.40	11.24
1176.60	11.18
1176.80	11.11
1177.00	11.04
1177.20	10.98
1177.40	10.91
1177.60	10.85
1177.80	10.79
1178.00	10.73
1178.20	10.67
1178.40	10.61
1178.60	10.55
1178.80	10.50
1179.00	10.44
1179.20	10.39
1179.40	10.33
1179.60	10.28
1179.80	10.23
1180.00	10.17
1180.20	10.12
1180.40	10.07
1180.60	10.02
1180.80	9.98
1181.00	9.93
1181.20	9.88
1181.40	9.83
1181.60	9.79
1181.80	9.74
1182.00	9.70
1182.20	9.65
1182.40	9.61
1182.60	9.56
1182.80	9.51
1183.00	9.46
1183.20	9.42
1183.40	9.37
1183.60	9.32
1183.80	9.27
1184.00	9.23
1184.20	9.18
1184.40	9.14
1184.60	9.09
1184.80	9.05
1185.00	9.01
1185.20	8.97

1185.40	8.92
1185.60	8.88
1185.80	8.84
1186.00	8.80
1186.20	8.76
1186.40	8.72
1186.60	8.68
1186.80	8.65
1187.00	8.61
1187.20	8.57
1187.40	8.53
1187.60	8.50
1187.80	8.46
1188.00	8.42
1188.20	8.39
1188.40	8.35
1188.60	8.32
1188.80	8.29
1189.00	8.25
1189.20	8.22
1189.40	8.19
1189.60	8.15
1189.80	8.12
1190.00	8.09
1190.20	8.06
1190.40	8.03
1190.60	8.00
1190.80	7.96
1191.00	7.93
1191.20	7.90
1191.40	7.87
1191.60	7.85
1191.80	7.82
1192.00	7.79
1192.20	7.76
1192.40	7.73
1192.60	7.70
1192.80	7.68
1193.00	7.65
1193.20	7.62
1193.40	7.59
1193.60	7.57
1193.80	7.54
1194.00	7.51
1194.20	7.49
1194.40	7.46
1194.60	7.44
1194.80	7.41
1195.00	7.39
1195.20	7.36
1195.40	7.34
1195.60	7.31
1195.80	7.29
1196.00	7.27
1196.20	7.24
1196.40	7.22
1196.60	7.20
1196.80	7.17
1197.00	7.15
1197.20	7.13
1197.40	7.11
1197.60	7.08
1197.80	7.06
1198.00	7.04
1198.20	7.02
1198.40	7.00

1198.60	6.98
1198.80	6.96
1199.00	6.93
1199.20	6.91
1199.40	6.89
1199.60	6.87
1199.80	6.85
1200.00	6.83
1200.20	6.81
1200.40	6.79
1200.60	6.77
1200.80	6.75
1201.00	6.73
1201.20	6.72
1201.40	6.70
1201.60	6.68
1201.80	6.66
1202.00	6.64
1202.20	6.62
1202.40	6.60
1202.60	6.59
1202.80	6.57
1203.00	6.55
1203.20	6.53
1203.40	6.51
1203.60	6.50
1203.80	6.48
1204.00	6.46
1204.20	6.45
1204.40	6.43
1204.60	6.41
1204.80	6.39
1205.00	6.38
1205.20	6.36
1205.40	6.35
1205.60	6.33
1205.80	6.31
1206.00	6.30
1206.20	6.28
1206.40	6.27
1206.60	6.25
1206.80	6.23
1207.00	6.22
1207.20	6.20
1207.40	6.19
1207.60	6.17
1207.80	6.16
1208.00	6.14
1208.20	6.13
1208.40	6.11
1208.60	6.10
1208.80	6.08
1209.00	6.07
1209.20	6.06
1209.40	6.04
1209.60	6.03
1209.80	6.01
1210.00	6.00
1210.20	5.99
1210.40	5.97
1210.60	5.96
1210.80	5.94
1211.00	5.93
1211.20	5.92
1211.40	5.90
1211.60	5.89

1211.80	5.88
1212.00	5.86
1212.20	5.85
1212.40	5.84
1212.60	5.83
1212.80	5.81
1213.00	5.80
1213.20	5.79
1213.40	5.77
1213.60	5.76
1213.80	5.75
1214.00	5.74
1214.20	5.73
1214.40	5.71
1214.60	5.70
1214.80	5.69
1215.00	5.68
1215.20	5.67
1215.40	5.65
1215.60	5.64
1215.80	5.63
1216.00	5.62
1216.20	5.61
1216.40	5.60
1216.60	5.58
1216.80	5.57
1217.00	5.56
1217.20	5.55
1217.40	5.54
1217.60	5.53
1217.80	5.52
1218.00	5.51
1218.20	5.49
1218.40	5.48
1218.60	5.47
1218.80	5.46
1219.00	5.45
1219.20	5.44
1219.40	5.43
1219.60	5.42
1219.80	5.41
1220.00	5.40
1220.20	5.39
1220.40	5.38
1220.60	5.37
1220.80	5.36
1221.00	5.35
1221.20	5.34
1221.40	5.33
1221.60	5.32
1221.80	5.31
1222.00	5.30
1222.20	5.29
1222.40	5.28
1222.60	5.27
1222.80	5.26
1223.00	5.25
1223.20	5.24
1223.40	5.23
1223.60	5.22
1223.80	5.21
1224.00	5.20
1224.20	5.19
1224.40	5.18
1224.60	5.17
1224.80	5.16

1225.00	5.16
1225.20	5.15
1225.40	5.14
1225.60	5.13
1225.80	5.12
1226.00	5.11
1226.20	5.10
1226.40	5.09
1226.60	5.08
1226.80	5.08
1227.00	5.07
1227.20	5.06
1227.40	5.05
1227.60	5.04
1227.80	5.03
1228.00	5.02
1228.20	5.02
1228.40	5.01
1228.60	5.00
1228.80	4.99
1229.00	4.98
1229.20	4.97
1229.40	4.97
1229.60	4.96
1229.80	4.95
1230.00	4.94
1230.20	4.93
1230.40	4.92
1230.60	4.92
1230.80	4.91
1231.00	4.90
1231.20	4.89
1231.40	4.89
1231.60	4.88
1231.80	4.87
1232.00	4.86
1232.20	4.85
1232.40	4.85
1232.60	4.84
1232.80	4.83
1233.00	4.82
1233.20	4.82
1233.40	4.81
1233.60	4.80
1233.80	4.79
1234.00	4.79
1234.20	4.78
1234.40	4.77
1234.60	4.76
1234.80	4.76
1235.00	4.75
1235.20	4.74
1235.40	4.74
1235.60	4.73
1235.80	4.72
1236.00	4.71
1236.20	4.71
1236.40	4.70
1236.60	4.69
1236.80	4.69
1237.00	4.68
1237.20	4.67
1237.40	4.67
1237.60	4.66
1237.80	4.65
1238.00	4.64

1238.20	4.63
1238.40	4.62
1238.60	4.61
1238.80	4.61
1239.00	4.60
1239.20	4.59
1239.40	4.58
1239.60	4.57
1239.80	4.56
1240.00	4.55
1240.20	4.54
1240.40	4.54
1240.60	4.53
1240.80	4.52
1241.00	4.51
1241.20	4.50
1241.40	4.49
1241.60	4.49
1241.80	4.48
1242.00	4.47
1242.20	4.46
1242.40	4.45
1242.60	4.44
1242.80	4.44
1243.00	4.43
1243.20	4.42
1243.40	4.41
1243.60	4.40
1243.80	4.40
1244.00	4.39
1244.20	4.38
1244.40	4.37
1244.60	4.37
1244.80	4.36
1245.00	4.35
1245.20	4.34
1245.40	4.33
1245.60	4.33
1245.80	4.32
1246.00	4.31
1246.20	4.30
1246.40	4.30
1246.60	4.29
1246.80	4.28
1247.00	4.27
1247.20	4.27
1247.40	4.26
1247.60	4.25
1247.80	4.25
1248.00	4.24
1248.20	4.23
1248.40	4.22
1248.60	4.22
1248.80	4.21
1249.00	4.20
1249.20	4.19
1249.40	4.19
1249.60	4.18
1249.80	4.17
1250.00	4.17
1250.20	4.16
1250.40	4.15
1250.60	4.15
1250.80	4.14
1251.00	4.13
1251.20	4.13

1251.40	4.12
1251.60	4.11
1251.80	4.11
1252.00	4.10
1252.20	4.09
1252.40	4.09
1252.60	4.08
1252.80	4.07
1253.00	4.07
1253.20	4.06
1253.40	4.05
1253.60	4.05
1253.80	4.04
1254.00	4.03
1254.20	4.03
1254.40	4.02
1254.60	4.01
1254.80	4.01
1255.00	4.00
1255.20	4.00
1255.40	3.99
1255.60	3.98
1255.80	3.98
1256.00	3.97
1256.20	3.96
1256.40	3.96
1256.60	3.95
1256.80	3.95
1257.00	3.94
1257.20	3.93
1257.40	3.93
1257.60	3.92
1257.80	3.92
1258.00	3.91
1258.20	3.90
1258.40	3.90
1258.60	3.89
1258.80	3.89
1259.00	3.88
1259.20	3.87
1259.40	3.87
1259.60	3.86
1259.80	3.86
1260.00	3.85
1260.20	3.84
1260.40	3.84
1260.60	3.83
1260.80	3.83
1261.00	3.82
1261.20	3.82
1261.40	3.81
1261.60	3.81
1261.80	3.80
1262.00	3.79
1262.20	3.79
1262.40	3.78
1262.60	3.78
1262.80	3.77
1263.00	3.77
1263.20	3.76
1263.40	3.76
1263.60	3.75
1263.80	3.74
1264.00	3.74
1264.20	3.73
1264.40	3.73

1264.60	3.72
1264.80	3.72
1265.00	3.71
1265.20	3.71
1265.40	3.70
1265.60	3.70
1265.80	3.69
1266.00	3.69
1266.20	3.68
1266.40	3.68
1266.60	3.67
1266.80	3.67
1267.00	3.66
1267.20	3.66
1267.40	3.65
1267.60	3.65
1267.80	3.64
1268.00	3.64
1268.20	3.63
1268.40	3.63
1268.60	3.62
1268.80	3.62
1269.00	3.61
1269.20	3.61
1269.40	3.60
1269.60	3.60
1269.80	3.59
1270.00	3.59
1270.20	3.58
1270.40	3.58
1270.60	3.57
1270.80	3.57
1271.00	3.56
1271.20	3.56
1271.40	3.55
1271.60	3.55
1271.80	3.54
1272.00	3.54
1272.20	3.53
1272.40	3.53
1272.60	3.52
1272.80	3.52
1273.00	3.52
1273.20	3.51
1273.40	3.51
1273.60	3.50
1273.80	3.50
1274.00	3.49
1274.20	3.49
1274.40	3.48
1274.60	3.48
1274.80	3.47
1275.00	3.47
1275.20	3.47
1275.40	3.46
1275.60	3.46
1275.80	3.45
1276.00	3.45
1276.20	3.44
1276.40	3.44
1276.60	3.43
1276.80	3.43
1277.00	3.43
1277.20	3.42
1277.40	3.42
1277.60	3.41

1277.80	3.41
1278.00	3.40
1278.20	3.40
1278.40	3.40
1278.60	3.39
1278.80	3.39
1279.00	3.38
1279.20	3.38
1279.40	3.37
1279.60	3.37
1279.80	3.37
1280.00	3.36
1280.20	3.36
1280.40	3.35
1280.60	3.35
1280.80	3.35
1281.00	3.34
1281.20	3.34
1281.40	3.33
1281.60	3.33
1281.80	3.33
1282.00	3.32
1282.20	3.32
1282.40	3.31
1282.60	3.31
1282.80	3.31
1283.00	3.30
1283.20	3.30
1283.40	3.29
1283.60	3.29
1283.80	3.29
1284.00	3.28
1284.20	3.28
1284.40	3.27
1284.60	3.27
1284.80	3.27
1285.00	3.26
1285.20	3.26
1285.40	3.25
1285.60	3.25
1285.80	3.25
1286.00	3.24
1286.20	3.24
1286.40	3.24
1286.60	3.23
1286.80	3.23
1287.00	3.22
1287.20	3.22
1287.40	3.22
1287.60	3.21
1287.80	3.21
1288.00	3.21
1288.20	3.20
1288.40	3.20
1288.60	3.19
1288.80	3.19
1289.00	3.19
1289.20	3.18
1289.40	3.18
1289.60	3.18
1289.80	3.17
1290.00	3.17
1290.20	3.17
1290.40	3.16
1290.60	3.16
1290.80	3.15

1291.00	3.15
1291.20	3.15
1291.40	3.14
1291.60	3.14
1291.80	3.14
1292.00	3.13
1292.20	3.13
1292.40	3.13
1292.60	3.12
1292.80	3.12
1293.00	3.12
1293.20	3.11
1293.40	3.11
1293.60	3.11
1293.80	3.10
1294.00	3.10
1294.20	3.10
1294.40	3.09
1294.60	3.09
1294.80	3.09
1295.00	3.08
1295.20	3.08
1295.40	3.08
1295.60	3.07
1295.80	3.07
1296.00	3.07
1296.20	3.06
1296.40	3.06
1296.60	3.06
1296.80	3.05
1297.00	3.05
1297.20	3.05
1297.40	3.04
1297.60	3.04
1297.80	3.04
1298.00	3.03
1298.20	3.03
1298.40	3.03
1298.60	3.02
1298.80	3.02
1299.00	3.02
1299.20	3.01
1299.40	3.01
1299.60	3.01
1299.80	3.00
1300.00	3.00
1300.20	3.00
1300.40	2.99
1300.60	2.99
1300.80	2.99
1301.00	2.98
1301.20	2.98
1301.40	2.98
1301.60	2.98
1301.80	2.97
1302.00	2.97
1302.20	2.97
1302.40	2.96
1302.60	2.96
1302.80	2.96
1303.00	2.95
1303.20	2.95
1303.40	2.95
1303.60	2.95
1303.80	2.94
1304.00	2.94

1304.20	2.94
1304.40	2.93
1304.60	2.93
1304.80	2.93
1305.00	2.92
1305.20	2.92
1305.40	2.92
1305.60	2.92
1305.80	2.91
1306.00	2.91
1306.20	2.91
1306.40	2.90
1306.60	2.90
1306.80	2.90
1307.00	2.89
1307.20	2.89
1307.40	2.89
1307.60	2.89
1307.80	2.88
1308.00	2.88
1308.20	2.88
1308.40	2.87
1308.60	2.87
1308.80	2.87
1309.00	2.87
1309.20	2.86
1309.40	2.86
1309.60	2.86
1309.80	2.86
1310.00	2.85
1310.20	2.85
1310.40	2.85
1310.60	2.84
1310.80	2.84
1311.00	2.84
1311.20	2.84
1311.40	2.83
1311.60	2.83
1311.80	2.83
1312.00	2.82
1312.20	2.82
1312.40	2.82
1312.60	2.82
1312.80	2.81
1313.00	2.81
1313.20	2.81
1313.40	2.81
1313.60	2.80
1313.80	2.80
1314.00	2.80
1314.20	2.80
1314.40	2.79
1314.60	2.79
1314.80	2.79
1315.00	2.78
1315.20	2.78
1315.40	2.78
1315.60	2.78
1315.80	2.77
1316.00	2.77
1316.20	2.77
1316.40	2.77
1316.60	2.76
1316.80	2.76
1317.00	2.76
1317.20	2.76

1317.40	2.75
1317.60	2.75
1317.80	2.75
1318.00	2.75
1318.20	2.74
1318.40	2.74
1318.60	2.74
1318.80	2.74
1319.00	2.73
1319.20	2.73
1319.40	2.73
1319.60	2.73
1319.80	2.72
1320.00	2.72
1320.20	2.72
1320.40	2.72
1320.60	2.71
1320.80	2.71
1321.00	2.71
1321.20	2.71
1321.40	2.70
1321.60	2.70
1321.80	2.70
1322.00	2.70
1322.20	2.69
1322.40	2.69
1322.60	2.69
1322.80	2.69
1323.00	2.68
1323.20	2.68
1323.40	2.68
1323.60	2.68
1323.80	2.67
1324.00	2.67
1324.20	2.67
1324.40	2.67
1324.60	2.67
1324.80	2.66
1325.00	2.66
1325.20	2.66
1325.40	2.66
1325.60	2.65
1325.80	2.65
1326.00	2.65
1326.20	2.65
1326.40	2.64
1326.60	2.64
1326.80	2.64
1327.00	2.64
1327.20	2.64
1327.40	2.63
1327.60	2.63
1327.80	2.63
1328.00	2.63
1328.20	2.62
1328.40	2.62
1328.60	2.62
1328.80	2.62
1329.00	2.61
1329.20	2.61
1329.40	2.61
1329.60	2.61
1329.80	2.61
1330.00	2.60
1330.20	2.60
1330.40	2.60

1330.60	2.60
1330.80	2.59
1331.00	2.59
1331.20	2.59
1331.40	2.59
1331.60	2.59
1331.80	2.58
1332.00	2.58
1332.20	2.58
1332.40	2.58
1332.60	2.57
1332.80	2.57
1333.00	2.57
1333.20	2.57
1333.40	2.57
1333.60	2.56
1333.80	2.56
1334.00	2.56
1334.20	2.56
1334.40	2.56
1334.60	2.55
1334.80	2.55
1335.00	2.55
1335.20	2.55
1335.40	2.54
1335.60	2.54
1335.80	2.54
1336.00	2.54
1336.20	2.54
1336.40	2.53
1336.60	2.53
1336.80	2.53
1337.00	2.53
1337.20	2.53
1337.40	2.52
1337.60	2.52
1337.80	2.52
1338.00	2.52
1338.20	2.52
1338.40	2.51
1338.60	2.51
1338.80	2.51
1339.00	2.51
1339.20	2.51
1339.40	2.50
1339.60	2.50
1339.80	2.50
1340.00	2.50
1340.20	2.50
1340.40	2.49
1340.60	2.49
1340.80	2.49
1341.00	2.49
1341.20	2.49
1341.40	2.48
1341.60	2.48
1341.80	2.48
1342.00	2.48
1342.20	2.48
1342.40	2.47
1342.60	2.47
1342.80	2.47
1343.00	2.47
1343.20	2.47
1343.40	2.46
1343.60	2.46

1343.80	2.46
1344.00	2.46
1344.20	2.46
1344.40	2.45
1344.60	2.45
1344.80	2.45
1345.00	2.45
1345.20	2.45
1345.40	2.44
1345.60	2.44
1345.80	2.44
1346.00	2.44
1346.20	2.44
1346.40	2.44
1346.60	2.43
1346.80	2.43
1347.00	2.43
1347.20	2.43
1347.40	2.43
1347.60	2.42
1347.80	2.42
1348.00	2.42
1348.20	2.42
1348.40	2.42
1348.60	2.41
1348.80	2.41
1349.00	2.41
1349.20	2.41
1349.40	2.41
1349.60	2.41
1349.80	2.40
1350.00	2.40
1350.20	2.40
1350.40	2.40
1350.60	2.40
1350.80	2.39
1351.00	2.39
1351.20	2.39
1351.40	2.39
1351.60	2.39
1351.80	2.39
1352.00	2.38
1352.20	2.38
1352.40	2.38
1352.60	2.38
1352.80	2.38
1353.00	2.37
1353.20	2.37
1353.40	2.37
1353.60	2.37
1353.80	2.37
1354.00	2.37
1354.20	2.36
1354.40	2.36
1354.60	2.36
1354.80	2.36
1355.00	2.36
1355.20	2.36
1355.40	2.35
1355.60	2.35
1355.80	2.35
1356.00	2.35
1356.20	2.35
1356.40	2.35
1356.60	2.34
1356.80	2.34

1357.00	2.34
1357.20	2.34
1357.40	2.34
1357.60	2.33
1357.80	2.33
1358.00	2.33
1358.20	2.33
1358.40	2.33
1358.60	2.33
1358.80	2.32
1359.00	2.32
1359.20	2.32
1359.40	2.32
1359.60	2.32
1359.80	2.32
1360.00	2.31
1360.20	2.31
1360.40	2.31
1360.60	2.31
1360.80	2.31
1361.00	2.31
1361.20	2.30
1361.40	2.30
1361.60	2.30
1361.80	2.30
1362.00	2.30
1362.20	2.30
1362.40	2.29
1362.60	2.29
1362.80	2.29
1363.00	2.29
1363.20	2.29
1363.40	2.29
1363.60	2.29
1363.80	2.28
1364.00	2.28
1364.20	2.28
1364.40	2.28
1364.60	2.28
1364.80	2.28
1365.00	2.27
1365.20	2.27
1365.40	2.27
1365.60	2.27
1365.80	2.27
1366.00	2.27
1366.20	2.26
1366.40	2.26
1366.60	2.26
1366.80	2.26
1367.00	2.26
1367.20	2.26
1367.40	2.25
1367.60	2.25
1367.80	2.25
1368.00	2.25
1368.20	2.25
1368.40	2.25
1368.60	2.25
1368.80	2.24
1369.00	2.24
1369.20	2.24
1369.40	2.24
1369.60	2.24
1369.80	2.24
1370.00	2.23

1370.20	2.23
1370.40	2.23
1370.60	2.23
1370.80	2.23
1371.00	2.23
1371.20	2.23
1371.40	2.22
1371.60	2.22
1371.80	2.22
1372.00	2.22
1372.20	2.22
1372.40	2.22
1372.60	2.22
1372.80	2.21
1373.00	2.21
1373.20	2.21
1373.40	2.21
1373.60	2.21
1373.80	2.21
1374.00	2.20
1374.20	2.20
1374.40	2.20
1374.60	2.20
1374.80	2.20
1375.00	2.20
1375.20	2.20
1375.40	2.19
1375.60	2.19
1375.80	2.19
1376.00	2.19
1376.20	2.19
1376.40	2.19
1376.60	2.19
1376.80	2.18
1377.00	2.18
1377.20	2.18
1377.40	2.18
1377.60	2.18
1377.80	2.18
1378.00	2.18
1378.20	2.17
1378.40	2.17
1378.60	2.17
1378.80	2.17
1379.00	2.17
1379.20	2.17
1379.40	2.17
1379.60	2.16
1379.80	2.16
1380.00	2.16
1380.20	2.16
1380.40	2.16
1380.60	2.16
1380.80	2.16
1381.00	2.15
1381.20	2.15
1381.40	2.15
1381.60	2.15
1381.80	2.15
1382.00	2.15
1382.20	2.15
1382.40	2.14
1382.60	2.14
1382.80	2.14
1383.00	2.14
1383.20	2.14

1383.40	2.14
1383.60	2.14
1383.80	2.14
1384.00	2.13
1384.20	2.13
1384.40	2.13
1384.60	2.13
1384.80	2.13
1385.00	2.13
1385.20	2.13
1385.40	2.12
1385.60	2.12
1385.80	2.12
1386.00	2.12
1386.20	2.12
1386.40	2.12
1386.60	2.12
1386.80	2.12
1387.00	2.11
1387.20	2.11
1387.40	2.11
1387.60	2.11
1387.80	2.11
1388.00	2.11
1388.20	2.11
1388.40	2.10
1388.60	2.10
1388.80	2.10
1389.00	2.10
1389.20	2.10
1389.40	2.10
1389.60	2.10
1389.80	2.10
1390.00	2.09
1390.20	2.09
1390.40	2.09
1390.60	2.09
1390.80	2.09
1391.00	2.09
1391.20	2.09
1391.40	2.09
1391.60	2.08
1391.80	2.08
1392.00	2.08
1392.20	2.08
1392.40	2.08
1392.60	2.08
1392.80	2.08
1393.00	2.07
1393.20	2.07
1393.40	2.07
1393.60	2.07
1393.80	2.07
1394.00	2.07
1394.20	2.07
1394.40	2.07
1394.60	2.06
1394.80	2.06
1395.00	2.06
1395.20	2.06
1395.40	2.06
1395.60	2.06
1395.80	2.06
1396.00	2.06
1396.20	2.05
1396.40	2.05

1396.60	2.05
1396.80	2.05
1397.00	2.05
1397.20	2.05
1397.40	2.05
1397.60	2.05
1397.80	2.04
1398.00	2.04
1398.20	2.04
1398.40	2.04
1398.60	2.04
1398.80	2.04
1399.00	2.04
1399.20	2.04
1399.40	2.04
1399.60	2.03
1399.80	2.03
1400.00	2.03
1400.20	2.03
1400.40	2.03
1400.60	2.03
1400.80	2.03
1401.00	2.03
1401.20	2.02
1401.40	2.02
1401.60	2.02
1401.80	2.02
1402.00	2.02
1402.20	2.02
1402.40	2.02
1402.60	2.02
1402.80	2.01
1403.00	2.01
1403.20	2.01
1403.40	2.01
1403.60	2.01
1403.80	2.01
1404.00	2.01
1404.20	2.01
1404.40	2.01
1404.60	2.00
1404.80	2.00
1405.00	2.00
1405.20	2.00
1405.40	2.00
1405.60	2.00
1405.80	2.00
1406.00	2.00
1406.20	1.99
1406.40	1.99
1406.60	1.99
1406.80	1.99
1407.00	1.99
1407.20	1.99
1407.40	1.99
1407.60	1.99
1407.80	1.99
1408.00	1.98
1408.20	1.98
1408.40	1.98
1408.60	1.98
1408.80	1.98
1409.00	1.98
1409.20	1.98
1409.40	1.98
1409.60	1.98

1409.80	1.97
1410.00	1.97
1410.20	1.97
1410.40	1.97
1410.60	1.97
1410.80	1.97
1411.00	1.97
1411.20	1.97
1411.40	1.97
1411.60	1.96
1411.80	1.96
1412.00	1.96
1412.20	1.96
1412.40	1.96
1412.60	1.96
1412.80	1.96
1413.00	1.96
1413.20	1.96
1413.40	1.95
1413.60	1.95
1413.80	1.95
1414.00	1.95
1414.20	1.95
1414.40	1.95
1414.60	1.95
1414.80	1.95
1415.00	1.95
1415.20	1.94
1415.40	1.94
1415.60	1.94
1415.80	1.94
1416.00	1.94
1416.20	1.94
1416.40	1.94
1416.60	1.94
1416.80	1.94
1417.00	1.94
1417.20	1.93
1417.40	1.93
1417.60	1.93
1417.80	1.93
1418.00	1.93
1418.20	1.93
1418.40	1.93
1418.60	1.93
1418.80	1.93
1419.00	1.92
1419.20	1.92
1419.40	1.92
1419.60	1.92
1419.80	1.92
1420.00	1.92
1420.20	1.92
1420.40	1.92
1420.60	1.92
1420.80	1.92
1421.00	1.91
1421.20	1.91
1421.40	1.91
1421.60	1.91
1421.80	1.91
1422.00	1.91
1422.20	1.91
1422.40	1.91
1422.60	1.91
1422.80	1.90

1423.00	1.90
1423.20	1.90
1423.40	1.90
1423.60	1.90
1423.80	1.90
1424.00	1.90
1424.20	1.90
1424.40	1.90
1424.60	1.90
1424.80	1.89
1425.00	1.89
1425.20	1.89
1425.40	1.89
1425.60	1.89
1425.80	1.89
1426.00	1.89
1426.20	1.89
1426.40	1.89
1426.60	1.89
1426.80	1.88
1427.00	1.88
1427.20	1.88
1427.40	1.88
1427.60	1.88
1427.80	1.88
1428.00	1.88
1428.20	1.88
1428.40	1.88
1428.60	1.88
1428.80	1.87
1429.00	1.87
1429.20	1.87
1429.40	1.87
1429.60	1.87
1429.80	1.87
1430.00	1.87
1430.20	1.87
1430.40	1.87
1430.60	1.87
1430.80	1.86
1431.00	1.86
1431.20	1.86
1431.40	1.86
1431.60	1.86
1431.80	1.86
1432.00	1.86
1432.20	1.86
1432.40	1.86
1432.60	1.86
1432.80	1.86
1433.00	1.85
1433.20	1.85
1433.40	1.85
1433.60	1.85
1433.80	1.85
1434.00	1.85
1434.20	1.85
1434.40	1.85
1434.60	1.85
1434.80	1.85
1435.00	1.84
1435.20	1.84
1435.40	1.84
1435.60	1.84
1435.80	1.84
1436.00	1.84

1436.20	1.84
1436.40	1.84
1436.60	1.84
1436.80	1.84
1437.00	1.84
1437.20	1.83
1437.40	1.83
1437.60	1.83
1437.80	1.83
1438.00	1.83
1438.20	1.83
1438.40	1.83
1438.60	1.83
1438.80	1.83
1439.00	1.83
1439.20	1.83
1439.40	1.82
1439.60	1.82
1439.80	1.82
1440.00	1.82
1440.20	1.77
1440.40	1.72
1440.60	1.67
1440.80	1.64
1441.00	1.61
1441.20	1.57
1441.40	1.54
1441.60	1.51
1441.80	1.48
1442.00	1.44
1442.20	1.41
1442.40	1.38
1442.60	1.35
1442.80	1.32
1443.00	1.28
1443.20	1.25
1443.40	1.22
1443.60	1.19
1443.80	1.15
1444.00	1.12
1444.20	1.09
1444.40	1.06
1444.60	1.03
1444.80	0.99
1445.00	0.96
1445.20	0.93
1445.40	0.90
1445.60	0.86
1445.80	0.83
1446.00	0.80
1446.20	0.77
1446.40	0.74
1446.60	0.70
1446.80	0.67
1447.00	0.64
1447.20	0.61
1447.40	0.58
1447.60	0.54
1447.80	0.51
1448.00	0.48
1448.20	0.45
1448.40	0.42
1448.60	0.38
1448.80	0.35
1449.00	0.32
1449.20	0.29

1449.40	0.26
1449.60	0.22
1449.80	0.19
1450.00	0.16
1450.20	0.13
1450.40	0.10
1450.60	0.06
1450.80	0.03
1451.00	0.00

Initial Storage = 0.0000 acre-ft

Detention Basin Result Parameters

Routed Hydrograph

Peak Outflow Discharge: 62.933 cfs, Time to Peak: 1160.00 (min), Total Outflow Volume 428642.35 ft^3

Time min	Discharge cfs	Storage acre-ft
0.00	0.00	0.000000
0.20	0.00	0.000009
0.40	0.00	0.000027
0.60	0.00	0.000054
0.80	0.00	0.000089
1.00	0.00	0.000134
1.20	0.00	0.000187
1.40	0.01	0.000249
1.60	0.01	0.000319
1.80	0.01	0.000398
2.00	0.01	0.000485
2.20	0.01	0.000581
2.40	0.02	0.000684
2.60	0.02	0.000797
2.80	0.02	0.000917
3.00	0.02	0.001046
3.20	0.03	0.001183
3.40	0.03	0.001328
3.60	0.04	0.001480
3.80	0.04	0.001641
4.00	0.04	0.001810
4.20	0.05	0.001986
4.40	0.05	0.002171
4.60	0.06	0.002363
4.80	0.06	0.002562
5.00	0.07	0.002770
5.20	0.07	0.002985
5.40	0.08	0.003207
5.60	0.08	0.003437
5.80	0.09	0.003674
6.00	0.10	0.003919
6.20	0.10	0.004171
6.40	0.11	0.004430
6.60	0.11	0.004697
6.80	0.12	0.004971
7.00	0.13	0.005251
7.20	0.14	0.005539
7.40	0.14	0.005834
7.60	0.15	0.006136
7.80	0.16	0.006445
8.00	0.17	0.006760
8.20	0.17	0.007083
8.40	0.18	0.007412
8.60	0.19	0.007748
8.80	0.20	0.008091
9.00	0.21	0.008440
9.20	0.22	0.008796
9.40	0.22	0.009159
9.60	0.23	0.009528
9.80	0.24	0.009903
10.00	0.25	0.010285
10.20	0.26	0.010673
10.40	0.27	0.011068
10.60	0.28	0.011469

10.80	0.29	0.011876
11.00	0.30	0.012289
11.20	0.31	0.012699
11.40	0.32	0.013107
11.60	0.33	0.013512
11.80	0.34	0.013915
12.00	0.35	0.014314
12.20	0.36	0.014711
12.40	0.37	0.015105
12.60	0.38	0.015497
12.80	0.39	0.015886
13.00	0.40	0.016272
13.20	0.41	0.016656
13.40	0.42	0.017037
13.60	0.43	0.017416
13.80	0.44	0.017792
14.00	0.45	0.018166
14.20	0.46	0.018537
14.40	0.47	0.018905
14.60	0.48	0.019271
14.80	0.49	0.019635
15.00	0.50	0.019996
15.20	0.52	0.020352
15.40	0.54	0.020700
15.60	0.57	0.021041
15.80	0.60	0.021374
16.00	0.62	0.021700
16.20	0.65	0.022019
16.40	0.68	0.022331
16.60	0.70	0.022636
16.80	0.72	0.022935
17.00	0.75	0.023227
17.20	0.77	0.023513
17.40	0.79	0.023793
17.60	0.82	0.024067
17.80	0.84	0.024335
18.00	0.86	0.024597
18.20	0.88	0.024853
18.40	0.90	0.025104
18.60	0.92	0.025349
18.80	0.94	0.025589
19.00	0.96	0.025824
19.20	0.98	0.026054
19.40	1.00	0.026279
19.60	1.01	0.026499
19.80	1.03	0.026715
20.00	1.05	0.026925
20.20	1.06	0.027131
20.40	1.08	0.027333
20.60	1.10	0.027531
20.80	1.11	0.027724
21.00	1.13	0.027913
21.20	1.14	0.028098
21.40	1.16	0.028279
21.60	1.17	0.028456
21.80	1.19	0.028629
22.00	1.20	0.028798
22.20	1.21	0.028964
22.40	1.23	0.029127
22.60	1.24	0.029286
22.80	1.25	0.029441
23.00	1.26	0.029593
23.20	1.28	0.029742
23.40	1.29	0.029888
23.60	1.30	0.030030
23.80	1.31	0.030170

24.00	1.32	0.030306
24.20	1.33	0.030440
24.40	1.34	0.030571
24.60	1.35	0.030699
24.80	1.36	0.030824
25.00	1.37	0.030947
25.20	1.38	0.031067
25.40	1.39	0.031184
25.60	1.40	0.031299
25.80	1.41	0.031411
26.00	1.42	0.031521
26.20	1.43	0.031629
26.40	1.44	0.031735
26.60	1.45	0.031838
26.80	1.45	0.031939
27.00	1.46	0.032038
27.20	1.47	0.032134
27.40	1.48	0.032229
27.60	1.48	0.032322
27.80	1.49	0.032413
28.00	1.50	0.032501
28.20	1.51	0.032588
28.40	1.51	0.032674
28.60	1.52	0.032757
28.80	1.53	0.032838
29.00	1.53	0.032918
29.20	1.54	0.032997
29.40	1.55	0.033073
29.60	1.55	0.033148
29.80	1.56	0.033221
30.00	1.56	0.033293
30.20	1.57	0.033363
30.40	1.57	0.033432
30.60	1.58	0.033500
30.80	1.59	0.033566
31.00	1.59	0.033630
31.20	1.60	0.033694
31.40	1.60	0.033756
31.60	1.61	0.033816
31.80	1.61	0.033876
32.00	1.62	0.033934
32.20	1.62	0.033991
32.40	1.62	0.034047
32.60	1.63	0.034101
32.80	1.63	0.034155
33.00	1.64	0.034207
33.20	1.64	0.034258
33.40	1.65	0.034309
33.60	1.65	0.034358
33.80	1.65	0.034406
34.00	1.66	0.034453
34.20	1.66	0.034500
34.40	1.66	0.034545
34.60	1.67	0.034589
34.80	1.67	0.034633
35.00	1.68	0.034675
35.20	1.68	0.034717
35.40	1.68	0.034758
35.60	1.69	0.034798
35.80	1.69	0.034837
36.00	1.69	0.034876
36.20	1.69	0.034913
36.40	1.70	0.034950
36.60	1.70	0.034986
36.80	1.70	0.035022
37.00	1.71	0.035057

37.20	1.71	0.035091
37.40	1.71	0.035124
37.60	1.71	0.035157
37.80	1.72	0.035189
38.00	1.72	0.035220
38.20	1.72	0.035251
38.40	1.72	0.035281
38.60	1.73	0.035311
38.80	1.73	0.035340
39.00	1.73	0.035368
39.20	1.73	0.035396
39.40	1.74	0.035423
39.60	1.74	0.035450
39.80	1.74	0.035476
40.00	1.74	0.035502
40.20	1.74	0.035528
40.40	1.75	0.035552
40.60	1.75	0.035577
40.80	1.75	0.035600
41.00	1.75	0.035624
41.20	1.75	0.035647
41.40	1.76	0.035669
41.60	1.76	0.035691
41.80	1.76	0.035713
42.00	1.76	0.035734
42.20	1.76	0.035755
42.40	1.76	0.035776
42.60	1.77	0.035796
42.80	1.77	0.035815
43.00	1.77	0.035835
43.20	1.77	0.035854
43.40	1.77	0.035872
43.60	1.77	0.035890
43.80	1.78	0.035908
44.00	1.78	0.035926
44.20	1.78	0.035943
44.40	1.78	0.035960
44.60	1.78	0.035977
44.80	1.78	0.035993
45.00	1.78	0.036009
45.20	1.78	0.036025
45.40	1.79	0.036041
45.60	1.79	0.036056
45.80	1.79	0.036071
46.00	1.79	0.036086
46.20	1.79	0.036100
46.40	1.79	0.036114
46.60	1.79	0.036128
46.80	1.79	0.036142
47.00	1.80	0.036156
47.20	1.80	0.036169
47.40	1.80	0.036182
47.60	1.80	0.036195
47.80	1.80	0.036207
48.00	1.80	0.036220
48.20	1.80	0.036232
48.40	1.80	0.036244
48.60	1.80	0.036256
48.80	1.80	0.036267
49.00	1.81	0.036279
49.20	1.81	0.036290
49.40	1.81	0.036301
49.60	1.81	0.036312
49.80	1.81	0.036322
50.00	1.81	0.036333
50.20	1.81	0.036343

50.40	1.81	0.036353
50.60	1.81	0.036363
50.80	1.81	0.036373
51.00	1.81	0.036383
51.20	1.81	0.036393
51.40	1.81	0.036402
51.60	1.82	0.036411
51.80	1.82	0.036420
52.00	1.82	0.036430
52.20	1.82	0.036438
52.40	1.82	0.036447
52.60	1.82	0.036456
52.80	1.82	0.036464
53.00	1.82	0.036473
53.20	1.82	0.036481
53.40	1.82	0.036489
53.60	1.82	0.036497
53.80	1.82	0.036505
54.00	1.82	0.036513
54.20	1.82	0.036521
54.40	1.83	0.036528
54.60	1.83	0.036536
54.80	1.83	0.036543
55.00	1.83	0.036551
55.20	1.83	0.036558
55.40	1.83	0.036565
55.60	1.83	0.036572
55.80	1.83	0.036579
56.00	1.83	0.036586
56.20	1.83	0.036593
56.40	1.83	0.036599
56.60	1.83	0.036606
56.80	1.83	0.036612
57.00	1.83	0.036619
57.20	1.83	0.036625
57.40	1.83	0.036632
57.60	1.83	0.036638
57.80	1.83	0.036644
58.00	1.83	0.036650
58.20	1.84	0.036656
58.40	1.84	0.036662
58.60	1.84	0.036668
58.80	1.84	0.036674
59.00	1.84	0.036680
59.20	1.84	0.036685
59.40	1.84	0.036691
59.60	1.84	0.036697
59.80	1.84	0.036702
60.00	1.84	0.036708
60.20	1.84	0.036713
60.40	1.84	0.036718
60.60	1.84	0.036724
60.80	1.84	0.036729
61.00	1.84	0.036734
61.20	1.84	0.036739
61.40	1.84	0.036745
61.60	1.84	0.036750
61.80	1.84	0.036755
62.00	1.84	0.036760
62.20	1.84	0.036765
62.40	1.84	0.036770
62.60	1.84	0.036774
62.80	1.85	0.036779
63.00	1.85	0.036784
63.20	1.85	0.036789
63.40	1.85	0.036794

63.60	1.85	0.036798
63.80	1.85	0.036803
64.00	1.85	0.036807
64.20	1.85	0.036812
64.40	1.85	0.036817
64.60	1.85	0.036821
64.80	1.85	0.036826
65.00	1.85	0.036830
65.20	1.85	0.036834
65.40	1.85	0.036839
65.60	1.85	0.036843
65.80	1.85	0.036847
66.00	1.85	0.036852
66.20	1.85	0.036856
66.40	1.85	0.036860
66.60	1.85	0.036865
66.80	1.85	0.036869
67.00	1.85	0.036873
67.20	1.85	0.036877
67.40	1.85	0.036881
67.60	1.85	0.036885
67.80	1.85	0.036889
68.00	1.85	0.036893
68.20	1.85	0.036897
68.40	1.86	0.036901
68.60	1.86	0.036905
68.80	1.86	0.036909
69.00	1.86	0.036913
69.20	1.86	0.036917
69.40	1.86	0.036921
69.60	1.86	0.036925
69.80	1.86	0.036929
70.00	1.86	0.036933
70.20	1.86	0.036937
70.40	1.86	0.036940
70.60	1.86	0.036944
70.80	1.86	0.036948
71.00	1.86	0.036952
71.20	1.86	0.036956
71.40	1.86	0.036959
71.60	1.86	0.036963
71.80	1.86	0.036967
72.00	1.86	0.036970
72.20	1.86	0.036974
72.40	1.86	0.036978
72.60	1.86	0.036981
72.80	1.86	0.036985
73.00	1.86	0.036989
73.20	1.86	0.036992
73.40	1.86	0.036996
73.60	1.86	0.037000
73.80	1.86	0.037003
74.00	1.86	0.037007
74.20	1.86	0.037010
74.40	1.86	0.037014
74.60	1.86	0.037017
74.80	1.86	0.037021
75.00	1.87	0.037024
75.20	1.87	0.037028
75.40	1.87	0.037031
75.60	1.87	0.037035
75.80	1.87	0.037038
76.00	1.87	0.037042
76.20	1.87	0.037045
76.40	1.87	0.037049
76.60	1.87	0.037052

76.80	1.87	0.037056
77.00	1.87	0.037059
77.20	1.87	0.037063
77.40	1.87	0.037066
77.60	1.87	0.037069
77.80	1.87	0.037073
78.00	1.87	0.037076
78.20	1.87	0.037080
78.40	1.87	0.037083
78.60	1.87	0.037086
78.80	1.87	0.037090
79.00	1.87	0.037093
79.20	1.87	0.037097
79.40	1.87	0.037100
79.60	1.87	0.037103
79.80	1.87	0.037107
80.00	1.87	0.037110
80.20	1.87	0.037113
80.40	1.87	0.037117
80.60	1.87	0.037120
80.80	1.87	0.037123
81.00	1.87	0.037127
81.20	1.87	0.037130
81.40	1.87	0.037133
81.60	1.87	0.037137
81.80	1.87	0.037140
82.00	1.87	0.037143
82.20	1.87	0.037147
82.40	1.88	0.037150
82.60	1.88	0.037153
82.80	1.88	0.037156
83.00	1.88	0.037160
83.20	1.88	0.037163
83.40	1.88	0.037166
83.60	1.88	0.037170
83.80	1.88	0.037173
84.00	1.88	0.037176
84.20	1.88	0.037179
84.40	1.88	0.037183
84.60	1.88	0.037186
84.80	1.88	0.037189
85.00	1.88	0.037192
85.20	1.88	0.037196
85.40	1.88	0.037199
85.60	1.88	0.037202
85.80	1.88	0.037205
86.00	1.88	0.037209
86.20	1.88	0.037212
86.40	1.88	0.037215
86.60	1.88	0.037218
86.80	1.88	0.037222
87.00	1.88	0.037225
87.20	1.88	0.037228
87.40	1.88	0.037231
87.60	1.88	0.037234
87.80	1.88	0.037238
88.00	1.88	0.037241
88.20	1.88	0.037244
88.40	1.88	0.037247
88.60	1.88	0.037250
88.80	1.88	0.037254
89.00	1.88	0.037257
89.20	1.88	0.037260
89.40	1.88	0.037263
89.60	1.88	0.037267
89.80	1.88	0.037270

90.00	1.88	0.037273
90.20	1.89	0.037276
90.40	1.89	0.037279
90.60	1.89	0.037283
90.80	1.89	0.037286
91.00	1.89	0.037289
91.20	1.89	0.037292
91.40	1.89	0.037295
91.60	1.89	0.037299
91.80	1.89	0.037302
92.00	1.89	0.037305
92.20	1.89	0.037308
92.40	1.89	0.037311
92.60	1.89	0.037315
92.80	1.89	0.037318
93.00	1.89	0.037321
93.20	1.89	0.037324
93.40	1.89	0.037327
93.60	1.89	0.037331
93.80	1.89	0.037334
94.00	1.89	0.037337
94.20	1.89	0.037340
94.40	1.89	0.037343
94.60	1.89	0.037347
94.80	1.89	0.037350
95.00	1.89	0.037353
95.20	1.89	0.037356
95.40	1.89	0.037359
95.60	1.89	0.037363
95.80	1.89	0.037366
96.00	1.89	0.037369
96.20	1.89	0.037372
96.40	1.89	0.037375
96.60	1.89	0.037379
96.80	1.89	0.037382
97.00	1.89	0.037385
97.20	1.89	0.037388
97.40	1.89	0.037391
97.60	1.89	0.037395
97.80	1.89	0.037398
98.00	1.90	0.037401
98.20	1.90	0.037404
98.40	1.90	0.037407
98.60	1.90	0.037411
98.80	1.90	0.037414
99.00	1.90	0.037417
99.20	1.90	0.037420
99.40	1.90	0.037423
99.60	1.90	0.037427
99.80	1.90	0.037430
100.00	1.90	0.037433
100.20	1.90	0.037436
100.40	1.90	0.037439
100.60	1.90	0.037443
100.80	1.90	0.037446
101.00	1.90	0.037449
101.20	1.90	0.037452
101.40	1.90	0.037455
101.60	1.90	0.037459
101.80	1.90	0.037462
102.00	1.90	0.037465
102.20	1.90	0.037468
102.40	1.90	0.037471
102.60	1.90	0.037475
102.80	1.90	0.037478
103.00	1.90	0.037481

103.20	1.90	0.037484
103.40	1.90	0.037487
103.60	1.90	0.037491
103.80	1.90	0.037494
104.00	1.90	0.037497
104.20	1.90	0.037500
104.40	1.90	0.037504
104.60	1.90	0.037507
104.80	1.90	0.037510
105.00	1.90	0.037513
105.20	1.90	0.037516
105.40	1.90	0.037520
105.60	1.90	0.037523
105.80	1.91	0.037526
106.00	1.91	0.037529
106.20	1.91	0.037532
106.40	1.91	0.037536
106.60	1.91	0.037539
106.80	1.91	0.037542
107.00	1.91	0.037545
107.20	1.91	0.037549
107.40	1.91	0.037552
107.60	1.91	0.037555
107.80	1.91	0.037558
108.00	1.91	0.037561
108.20	1.91	0.037565
108.40	1.91	0.037568
108.60	1.91	0.037571
108.80	1.91	0.037574
109.00	1.91	0.037578
109.20	1.91	0.037581
109.40	1.91	0.037584
109.60	1.91	0.037587
109.80	1.91	0.037591
110.00	1.91	0.037594
110.20	1.91	0.037597
110.40	1.91	0.037600
110.60	1.91	0.037604
110.80	1.91	0.037607
111.00	1.91	0.037610
111.20	1.91	0.037613
111.40	1.91	0.037617
111.60	1.91	0.037620
111.80	1.91	0.037623
112.00	1.91	0.037626
112.20	1.91	0.037629
112.40	1.91	0.037633
112.60	1.91	0.037636
112.80	1.91	0.037639
113.00	1.91	0.037642
113.20	1.91	0.037646
113.40	1.92	0.037649
113.60	1.92	0.037652
113.80	1.92	0.037655
114.00	1.92	0.037659
114.20	1.92	0.037662
114.40	1.92	0.037665
114.60	1.92	0.037668
114.80	1.92	0.037672
115.00	1.92	0.037675
115.20	1.92	0.037678
115.40	1.92	0.037682
115.60	1.92	0.037685
115.80	1.92	0.037688
116.00	1.92	0.037691
116.20	1.92	0.037695

116.40	1.92	0.037698
116.60	1.92	0.037701
116.80	1.92	0.037704
117.00	1.92	0.037708
117.20	1.92	0.037711
117.40	1.92	0.037714
117.60	1.92	0.037717
117.80	1.92	0.037721
118.00	1.92	0.037724
118.20	1.92	0.037727
118.40	1.92	0.037731
118.60	1.92	0.037734
118.80	1.92	0.037737
119.00	1.92	0.037740
119.20	1.92	0.037744
119.40	1.92	0.037747
119.60	1.92	0.037750
119.80	1.92	0.037753
120.00	1.92	0.037757
120.20	1.92	0.037760
120.40	1.92	0.037763
120.60	1.92	0.037767
120.80	1.92	0.037770
121.00	1.93	0.037773
121.20	1.93	0.037776
121.40	1.93	0.037780
121.60	1.93	0.037783
121.80	1.93	0.037786
122.00	1.93	0.037790
122.20	1.93	0.037793
122.40	1.93	0.037796
122.60	1.93	0.037800
122.80	1.93	0.037803
123.00	1.93	0.037806
123.20	1.93	0.037809
123.40	1.93	0.037813
123.60	1.93	0.037816
123.80	1.93	0.037819
124.00	1.93	0.037823
124.20	1.93	0.037826
124.40	1.93	0.037829
124.60	1.93	0.037833
124.80	1.93	0.037836
125.00	1.93	0.037839
125.20	1.93	0.037842
125.40	1.93	0.037846
125.60	1.93	0.037849
125.80	1.93	0.037852
126.00	1.93	0.037856
126.20	1.93	0.037859
126.40	1.93	0.037862
126.60	1.93	0.037866
126.80	1.93	0.037869
127.00	1.93	0.037872
127.20	1.93	0.037876
127.40	1.93	0.037879
127.60	1.93	0.037882
127.80	1.93	0.037886
128.00	1.93	0.037889
128.20	1.93	0.037892
128.40	1.93	0.037896
128.60	1.94	0.037899
128.80	1.94	0.037902
129.00	1.94	0.037906
129.20	1.94	0.037909
129.40	1.94	0.037912

129.60	1.94	0.037916
129.80	1.94	0.037919
130.00	1.94	0.037922
130.20	1.94	0.037926
130.40	1.94	0.037929
130.60	1.94	0.037932
130.80	1.94	0.037936
131.00	1.94	0.037939
131.20	1.94	0.037942
131.40	1.94	0.037946
131.60	1.94	0.037949
131.80	1.94	0.037952
132.00	1.94	0.037956
132.20	1.94	0.037959
132.40	1.94	0.037962
132.60	1.94	0.037966
132.80	1.94	0.037969
133.00	1.94	0.037973
133.20	1.94	0.037976
133.40	1.94	0.037979
133.60	1.94	0.037983
133.80	1.94	0.037986
134.00	1.94	0.037989
134.20	1.94	0.037993
134.40	1.94	0.037996
134.60	1.94	0.037999
134.80	1.94	0.038003
135.00	1.94	0.038006
135.20	1.94	0.038010
135.40	1.94	0.038013
135.60	1.94	0.038016
135.80	1.94	0.038020
136.00	1.95	0.038023
136.20	1.95	0.038026
136.40	1.95	0.038030
136.60	1.95	0.038033
136.80	1.95	0.038037
137.00	1.95	0.038040
137.20	1.95	0.038043
137.40	1.95	0.038047
137.60	1.95	0.038050
137.80	1.95	0.038053
138.00	1.95	0.038057
138.20	1.95	0.038060
138.40	1.95	0.038064
138.60	1.95	0.038067
138.80	1.95	0.038070
139.00	1.95	0.038074
139.20	1.95	0.038077
139.40	1.95	0.038081
139.60	1.95	0.038084
139.80	1.95	0.038087
140.00	1.95	0.038091
140.20	1.95	0.038094
140.40	1.95	0.038098
140.60	1.95	0.038101
140.80	1.95	0.038104
141.00	1.95	0.038108
141.20	1.95	0.038111
141.40	1.95	0.038115
141.60	1.95	0.038118
141.80	1.95	0.038121
142.00	1.95	0.038125
142.20	1.95	0.038128
142.40	1.95	0.038132
142.60	1.95	0.038135

142.80	1.95	0.038138
143.00	1.95	0.038142
143.20	1.95	0.038145
143.40	1.96	0.038149
143.60	1.96	0.038152
143.80	1.96	0.038155
144.00	1.96	0.038159
144.20	1.96	0.038162
144.40	1.96	0.038166
144.60	1.96	0.038169
144.80	1.96	0.038173
145.00	1.96	0.038176
145.20	1.96	0.038179
145.40	1.96	0.038183
145.60	1.96	0.038186
145.80	1.96	0.038190
146.00	1.96	0.038193
146.20	1.96	0.038197
146.40	1.96	0.038200
146.60	1.96	0.038203
146.80	1.96	0.038207
147.00	1.96	0.038210
147.20	1.96	0.038214
147.40	1.96	0.038217
147.60	1.96	0.038221
147.80	1.96	0.038224
148.00	1.96	0.038228
148.20	1.96	0.038231
148.40	1.96	0.038234
148.60	1.96	0.038238
148.80	1.96	0.038241
149.00	1.96	0.038245
149.20	1.96	0.038248
149.40	1.96	0.038252
149.60	1.96	0.038255
149.80	1.96	0.038259
150.00	1.96	0.038262
150.20	1.96	0.038265
150.40	1.96	0.038269
150.60	1.97	0.038272
150.80	1.97	0.038276
151.00	1.97	0.038279
151.20	1.97	0.038283
151.40	1.97	0.038286
151.60	1.97	0.038290
151.80	1.97	0.038293
152.00	1.97	0.038297
152.20	1.97	0.038300
152.40	1.97	0.038304
152.60	1.97	0.038307
152.80	1.97	0.038311
153.00	1.97	0.038314
153.20	1.97	0.038318
153.40	1.97	0.038321
153.60	1.97	0.038324
153.80	1.97	0.038328
154.00	1.97	0.038331
154.20	1.97	0.038335
154.40	1.97	0.038338
154.60	1.97	0.038342
154.80	1.97	0.038345
155.00	1.97	0.038349
155.20	1.97	0.038352
155.40	1.97	0.038356
155.60	1.97	0.038359
155.80	1.97	0.038363

156.00	1.97	0.038366
156.20	1.97	0.038370
156.40	1.97	0.038373
156.60	1.97	0.038377
156.80	1.97	0.038380
157.00	1.97	0.038384
157.20	1.97	0.038387
157.40	1.97	0.038391
157.60	1.97	0.038394
157.80	1.98	0.038398
158.00	1.98	0.038401
158.20	1.98	0.038405
158.40	1.98	0.038408
158.60	1.98	0.038412
158.80	1.98	0.038415
159.00	1.98	0.038419
159.20	1.98	0.038422
159.40	1.98	0.038426
159.60	1.98	0.038429
159.80	1.98	0.038433
160.00	1.98	0.038436
160.20	1.98	0.038440
160.40	1.98	0.038443
160.60	1.98	0.038447
160.80	1.98	0.038451
161.00	1.98	0.038454
161.20	1.98	0.038458
161.40	1.98	0.038461
161.60	1.98	0.038465
161.80	1.98	0.038468
162.00	1.98	0.038472
162.20	1.98	0.038475
162.40	1.98	0.038479
162.60	1.98	0.038482
162.80	1.98	0.038486
163.00	1.98	0.038489
163.20	1.98	0.038493
163.40	1.98	0.038496
163.60	1.98	0.038500
163.80	1.98	0.038504
164.00	1.98	0.038507
164.20	1.98	0.038511
164.40	1.98	0.038514
164.60	1.98	0.038518
164.80	1.98	0.038521
165.00	1.99	0.038525
165.20	1.99	0.038528
165.40	1.99	0.038532
165.60	1.99	0.038535
165.80	1.99	0.038539
166.00	1.99	0.038543
166.20	1.99	0.038546
166.40	1.99	0.038550
166.60	1.99	0.038553
166.80	1.99	0.038557
167.00	1.99	0.038560
167.20	1.99	0.038564
167.40	1.99	0.038567
167.60	1.99	0.038571
167.80	1.99	0.038575
168.00	1.99	0.038578
168.20	1.99	0.038582
168.40	1.99	0.038585
168.60	1.99	0.038589
168.80	1.99	0.038592
169.00	1.99	0.038596

169.20	1.99	0.038600
169.40	1.99	0.038603
169.60	1.99	0.038607
169.80	1.99	0.038610
170.00	1.99	0.038614
170.20	1.99	0.038618
170.40	1.99	0.038621
170.60	1.99	0.038625
170.80	1.99	0.038628
171.00	1.99	0.038632
171.20	1.99	0.038635
171.40	1.99	0.038639
171.60	1.99	0.038643
171.80	1.99	0.038646
172.00	2.00	0.038650
172.20	2.00	0.038653
172.40	2.00	0.038657
172.60	2.00	0.038661
172.80	2.00	0.038664
173.00	2.00	0.038668
173.20	2.00	0.038671
173.40	2.00	0.038675
173.60	2.00	0.038679
173.80	2.00	0.038682
174.00	2.00	0.038686
174.20	2.00	0.038689
174.40	2.00	0.038693
174.60	2.00	0.038697
174.80	2.00	0.038700
175.00	2.00	0.038704
175.20	2.00	0.038708
175.40	2.00	0.038711
175.60	2.00	0.038715
175.80	2.00	0.038718
176.00	2.00	0.038722
176.20	2.00	0.038726
176.40	2.00	0.038729
176.60	2.00	0.038733
176.80	2.00	0.038737
177.00	2.00	0.038740
177.20	2.00	0.038744
177.40	2.00	0.038747
177.60	2.00	0.038751
177.80	2.00	0.038755
178.00	2.00	0.038758
178.20	2.00	0.038762
178.40	2.00	0.038766
178.60	2.00	0.038769
178.80	2.01	0.038773
179.00	2.01	0.038776
179.20	2.01	0.038780
179.40	2.01	0.038784
179.60	2.01	0.038787
179.80	2.01	0.038791
180.00	2.01	0.038795
180.20	2.01	0.038798
180.40	2.01	0.038802
180.60	2.01	0.038806
180.80	2.01	0.038809
181.00	2.01	0.038813
181.20	2.01	0.038817
181.40	2.01	0.038820
181.60	2.01	0.038824
181.80	2.01	0.038828
182.00	2.01	0.038831
182.20	2.01	0.038835

182.40	2.01	0.038839
182.60	2.01	0.038842
182.80	2.01	0.038846
183.00	2.01	0.038850
183.20	2.01	0.038853
183.40	2.01	0.038857
183.60	2.01	0.038861
183.80	2.01	0.038864
184.00	2.01	0.038868
184.20	2.01	0.038872
184.40	2.01	0.038875
184.60	2.01	0.038879
184.80	2.01	0.038883
185.00	2.01	0.038886
185.20	2.01	0.038890
185.40	2.01	0.038894
185.60	2.02	0.038897
185.80	2.02	0.038901
186.00	2.02	0.038905
186.20	2.02	0.038908
186.40	2.02	0.038912
186.60	2.02	0.038916
186.80	2.02	0.038919
187.00	2.02	0.038923
187.20	2.02	0.038927
187.40	2.02	0.038930
187.60	2.02	0.038934
187.80	2.02	0.038938
188.00	2.02	0.038942
188.20	2.02	0.038945
188.40	2.02	0.038949
188.60	2.02	0.038953
188.80	2.02	0.038956
189.00	2.02	0.038960
189.20	2.02	0.038964
189.40	2.02	0.038967
189.60	2.02	0.038971
189.80	2.02	0.038975
190.00	2.02	0.038979
190.20	2.02	0.038982
190.40	2.02	0.038986
190.60	2.02	0.038990
190.80	2.02	0.038993
191.00	2.02	0.038997
191.20	2.02	0.039001
191.40	2.02	0.039005
191.60	2.02	0.039008
191.80	2.02	0.039012
192.00	2.02	0.039016
192.20	2.02	0.039020
192.40	2.03	0.039023
192.60	2.03	0.039027
192.80	2.03	0.039031
193.00	2.03	0.039035
193.20	2.03	0.039038
193.40	2.03	0.039042
193.60	2.03	0.039046
193.80	2.03	0.039050
194.00	2.03	0.039053
194.20	2.03	0.039057
194.40	2.03	0.039061
194.60	2.03	0.039064
194.80	2.03	0.039068
195.00	2.03	0.039072
195.20	2.03	0.039076
195.40	2.03	0.039079

195.60	2.03	0.039083
195.80	2.03	0.039087
196.00	2.03	0.039091
196.20	2.03	0.039095
196.40	2.03	0.039098
196.60	2.03	0.039102
196.80	2.03	0.039106
197.00	2.03	0.039110
197.20	2.03	0.039113
197.40	2.03	0.039117
197.60	2.03	0.039121
197.80	2.03	0.039125
198.00	2.03	0.039128
198.20	2.03	0.039132
198.40	2.03	0.039136
198.60	2.03	0.039140
198.80	2.03	0.039144
199.00	2.04	0.039147
199.20	2.04	0.039151
199.40	2.04	0.039155
199.60	2.04	0.039159
199.80	2.04	0.039162
200.00	2.04	0.039166
200.20	2.04	0.039170
200.40	2.04	0.039174
200.60	2.04	0.039178
200.80	2.04	0.039181
201.00	2.04	0.039185
201.20	2.04	0.039189
201.40	2.04	0.039193
201.60	2.04	0.039197
201.80	2.04	0.039200
202.00	2.04	0.039204
202.20	2.04	0.039208
202.40	2.04	0.039212
202.60	2.04	0.039216
202.80	2.04	0.039219
203.00	2.04	0.039223
203.20	2.04	0.039227
203.40	2.04	0.039231
203.60	2.04	0.039235
203.80	2.04	0.039238
204.00	2.04	0.039242
204.20	2.04	0.039246
204.40	2.04	0.039250
204.60	2.04	0.039254
204.80	2.04	0.039257
205.00	2.04	0.039261
205.20	2.04	0.039265
205.40	2.04	0.039269
205.60	2.05	0.039273
205.80	2.05	0.039277
206.00	2.05	0.039280
206.20	2.05	0.039284
206.40	2.05	0.039288
206.60	2.05	0.039292
206.80	2.05	0.039296
207.00	2.05	0.039300
207.20	2.05	0.039303
207.40	2.05	0.039307
207.60	2.05	0.039311
207.80	2.05	0.039315
208.00	2.05	0.039319
208.20	2.05	0.039323
208.40	2.05	0.039326
208.60	2.05	0.039330

208.80	2.05	0.039334
209.00	2.05	0.039338
209.20	2.05	0.039342
209.40	2.05	0.039346
209.60	2.05	0.039349
209.80	2.05	0.039353
210.00	2.05	0.039357
210.20	2.05	0.039361
210.40	2.05	0.039365
210.60	2.05	0.039369
210.80	2.05	0.039373
211.00	2.05	0.039376
211.20	2.05	0.039380
211.40	2.05	0.039384
211.60	2.05	0.039388
211.80	2.05	0.039392
212.00	2.05	0.039396
212.20	2.06	0.039400
212.40	2.06	0.039404
212.60	2.06	0.039407
212.80	2.06	0.039411
213.00	2.06	0.039415
213.20	2.06	0.039419
213.40	2.06	0.039423
213.60	2.06	0.039427
213.80	2.06	0.039431
214.00	2.06	0.039435
214.20	2.06	0.039439
214.40	2.06	0.039442
214.60	2.06	0.039446
214.80	2.06	0.039450
215.00	2.06	0.039454
215.20	2.06	0.039458
215.40	2.06	0.039462
215.60	2.06	0.039466
215.80	2.06	0.039470
216.00	2.06	0.039474
216.20	2.06	0.039477
216.40	2.06	0.039481
216.60	2.06	0.039485
216.80	2.06	0.039489
217.00	2.06	0.039493
217.20	2.06	0.039497
217.40	2.06	0.039501
217.60	2.06	0.039505
217.80	2.06	0.039509
218.00	2.06	0.039513
218.20	2.06	0.039517
218.40	2.06	0.039520
218.60	2.07	0.039524
218.80	2.07	0.039528
219.00	2.07	0.039532
219.20	2.07	0.039536
219.40	2.07	0.039540
219.60	2.07	0.039544
219.80	2.07	0.039548
220.00	2.07	0.039552
220.20	2.07	0.039556
220.40	2.07	0.039560
220.60	2.07	0.039564
220.80	2.07	0.039568
221.00	2.07	0.039572
221.20	2.07	0.039575
221.40	2.07	0.039579
221.60	2.07	0.039583
221.80	2.07	0.039587

222.00	2.07	0.039591
222.20	2.07	0.039595
222.40	2.07	0.039599
222.60	2.07	0.039603
222.80	2.07	0.039607
223.00	2.07	0.039611
223.20	2.07	0.039615
223.40	2.07	0.039619
223.60	2.07	0.039623
223.80	2.07	0.039627
224.00	2.07	0.039631
224.20	2.07	0.039635
224.40	2.07	0.039639
224.60	2.07	0.039643
224.80	2.08	0.039647
225.00	2.08	0.039651
225.20	2.08	0.039655
225.40	2.08	0.039658
225.60	2.08	0.039662
225.80	2.08	0.039666
226.00	2.08	0.039670
226.20	2.08	0.039674
226.40	2.08	0.039678
226.60	2.08	0.039682
226.80	2.08	0.039686
227.00	2.08	0.039690
227.20	2.08	0.039694
227.40	2.08	0.039698
227.60	2.08	0.039702
227.80	2.08	0.039706
228.00	2.08	0.039710
228.20	2.08	0.039714
228.40	2.08	0.039718
228.60	2.08	0.039722
228.80	2.08	0.039726
229.00	2.08	0.039730
229.20	2.08	0.039734
229.40	2.08	0.039738
229.60	2.08	0.039742
229.80	2.08	0.039746
230.00	2.08	0.039750
230.20	2.08	0.039754
230.40	2.08	0.039758
230.60	2.08	0.039762
230.80	2.08	0.039766
231.00	2.08	0.039770
231.20	2.09	0.039774
231.40	2.09	0.039778
231.60	2.09	0.039782
231.80	2.09	0.039786
232.00	2.09	0.039790
232.20	2.09	0.039794
232.40	2.09	0.039798
232.60	2.09	0.039802
232.80	2.09	0.039806
233.00	2.09	0.039810
233.20	2.09	0.039814
233.40	2.09	0.039818
233.60	2.09	0.039823
233.80	2.09	0.039827
234.00	2.09	0.039831
234.20	2.09	0.039835
234.40	2.09	0.039839
234.60	2.09	0.039843
234.80	2.09	0.039847
235.00	2.09	0.039851

235.20	2.09	0.039855
235.40	2.09	0.039859
235.60	2.09	0.039863
235.80	2.09	0.039867
236.00	2.09	0.039871
236.20	2.09	0.039875
236.40	2.09	0.039879
236.60	2.09	0.039883
236.80	2.09	0.039887
237.00	2.09	0.039891
237.20	2.09	0.039895
237.40	2.10	0.039899
237.60	2.10	0.039903
237.80	2.10	0.039908
238.00	2.10	0.039912
238.20	2.10	0.039916
238.40	2.10	0.039920
238.60	2.10	0.039924
238.80	2.10	0.039928
239.00	2.10	0.039932
239.20	2.10	0.039936
239.40	2.10	0.039940
239.60	2.10	0.039944
239.80	2.10	0.039948
240.00	2.10	0.039952
240.20	2.10	0.039956
240.40	2.10	0.039960
240.60	2.10	0.039964
240.80	2.10	0.039968
241.00	2.10	0.039972
241.20	2.10	0.039976
241.40	2.10	0.039980
241.60	2.10	0.039984
241.80	2.10	0.039987
242.00	2.10	0.039991
242.20	2.10	0.039995
242.40	2.11	0.039998
242.60	2.11	0.040002
242.80	2.11	0.040005
243.00	2.11	0.040009
243.20	2.11	0.040012
243.40	2.11	0.040015
243.60	2.11	0.040019
243.80	2.11	0.040022
244.00	2.11	0.040025
244.20	2.11	0.040029
244.40	2.11	0.040032
244.60	2.11	0.040035
244.80	2.11	0.040038
245.00	2.11	0.040041
245.20	2.11	0.040044
245.40	2.11	0.040048
245.60	2.11	0.040051
245.80	2.11	0.040054
246.00	2.11	0.040057
246.20	2.11	0.040060
246.40	2.11	0.040063
246.60	2.11	0.040066
246.80	2.11	0.040069
247.00	2.12	0.040072
247.20	2.12	0.040074
247.40	2.12	0.040077
247.60	2.12	0.040080
247.80	2.12	0.040083
248.00	2.12	0.040086
248.20	2.12	0.040089

248.40	2.12	0.040092
248.60	2.12	0.040095
248.80	2.12	0.040097
249.00	2.12	0.040100
249.20	2.12	0.040103
249.40	2.12	0.040106
249.60	2.12	0.040109
249.80	2.12	0.040111
250.00	2.12	0.040114
250.20	2.12	0.040117
250.40	2.12	0.040120
250.60	2.12	0.040122
250.80	2.12	0.040125
251.00	2.12	0.040128
251.20	2.12	0.040130
251.40	2.12	0.040133
251.60	2.12	0.040136
251.80	2.12	0.040138
252.00	2.12	0.040141
252.20	2.13	0.040144
252.40	2.13	0.040146
252.60	2.13	0.040149
252.80	2.13	0.040152
253.00	2.13	0.040154
253.20	2.13	0.040157
253.40	2.13	0.040160
253.60	2.13	0.040162
253.80	2.13	0.040165
254.00	2.13	0.040168
254.20	2.13	0.040170
254.40	2.13	0.040173
254.60	2.13	0.040176
254.80	2.13	0.040178
255.00	2.13	0.040181
255.20	2.13	0.040183
255.40	2.13	0.040186
255.60	2.13	0.040189
255.80	2.13	0.040191
256.00	2.13	0.040194
256.20	2.13	0.040196
256.40	2.13	0.040199
256.60	2.13	0.040202
256.80	2.13	0.040204
257.00	2.13	0.040207
257.20	2.13	0.040209
257.40	2.13	0.040212
257.60	2.13	0.040215
257.80	2.14	0.040217
258.00	2.14	0.040220
258.20	2.14	0.040222
258.40	2.14	0.040225
258.60	2.14	0.040227
258.80	2.14	0.040230
259.00	2.14	0.040233
259.20	2.14	0.040235
259.40	2.14	0.040238
259.60	2.14	0.040240
259.80	2.14	0.040243
260.00	2.14	0.040246
260.20	2.14	0.040248
260.40	2.14	0.040251
260.60	2.14	0.040253
260.80	2.14	0.040256
261.00	2.14	0.040258
261.20	2.14	0.040261
261.40	2.14	0.040264

261.60	2.14	0.040266
261.80	2.14	0.040269
262.00	2.14	0.040271
262.20	2.14	0.040274
262.40	2.14	0.040276
262.60	2.14	0.040279
262.80	2.14	0.040282
263.00	2.14	0.040284
263.20	2.14	0.040287
263.40	2.14	0.040289
263.60	2.15	0.040292
263.80	2.15	0.040294
264.00	2.15	0.040297
264.20	2.15	0.040300
264.40	2.15	0.040302
264.60	2.15	0.040305
264.80	2.15	0.040307
265.00	2.15	0.040310
265.20	2.15	0.040312
265.40	2.15	0.040315
265.60	2.15	0.040318
265.80	2.15	0.040320
266.00	2.15	0.040323
266.20	2.15	0.040325
266.40	2.15	0.040328
266.60	2.15	0.040331
266.80	2.15	0.040333
267.00	2.15	0.040336
267.20	2.15	0.040338
267.40	2.15	0.040341
267.60	2.15	0.040343
267.80	2.15	0.040346
268.00	2.15	0.040349
268.20	2.15	0.040351
268.40	2.15	0.040354
268.60	2.15	0.040356
268.80	2.15	0.040359
269.00	2.15	0.040361
269.20	2.15	0.040364
269.40	2.16	0.040367
269.60	2.16	0.040369
269.80	2.16	0.040372
270.00	2.16	0.040374
270.20	2.16	0.040377
270.40	2.16	0.040380
270.60	2.16	0.040382
270.80	2.16	0.040385
271.00	2.16	0.040387
271.20	2.16	0.040390
271.40	2.16	0.040393
271.60	2.16	0.040395
271.80	2.16	0.040398
272.00	2.16	0.040400
272.20	2.16	0.040403
272.40	2.16	0.040406
272.60	2.16	0.040408
272.80	2.16	0.040411
273.00	2.16	0.040413
273.20	2.16	0.040416
273.40	2.16	0.040419
273.60	2.16	0.040421
273.80	2.16	0.040424
274.00	2.16	0.040426
274.20	2.16	0.040429
274.40	2.16	0.040432
274.60	2.16	0.040434

274.80	2.16	0.040437
275.00	2.17	0.040440
275.20	2.17	0.040442
275.40	2.17	0.040445
275.60	2.17	0.040447
275.80	2.17	0.040450
276.00	2.17	0.040453
276.20	2.17	0.040455
276.40	2.17	0.040458
276.60	2.17	0.040460
276.80	2.17	0.040463
277.00	2.17	0.040466
277.20	2.17	0.040468
277.40	2.17	0.040471
277.60	2.17	0.040474
277.80	2.17	0.040476
278.00	2.17	0.040479
278.20	2.17	0.040482
278.40	2.17	0.040484
278.60	2.17	0.040487
278.80	2.17	0.040489
279.00	2.17	0.040492
279.20	2.17	0.040495
279.40	2.17	0.040497
279.60	2.17	0.040500
279.80	2.17	0.040503
280.00	2.17	0.040505
280.20	2.17	0.040508
280.40	2.17	0.040511
280.60	2.18	0.040513
280.80	2.18	0.040516
281.00	2.18	0.040518
281.20	2.18	0.040521
281.40	2.18	0.040524
281.60	2.18	0.040526
281.80	2.18	0.040529
282.00	2.18	0.040532
282.20	2.18	0.040534
282.40	2.18	0.040537
282.60	2.18	0.040540
282.80	2.18	0.040542
283.00	2.18	0.040545
283.20	2.18	0.040548
283.40	2.18	0.040550
283.60	2.18	0.040553
283.80	2.18	0.040556
284.00	2.18	0.040558
284.20	2.18	0.040561
284.40	2.18	0.040564
284.60	2.18	0.040566
284.80	2.18	0.040569
285.00	2.18	0.040572
285.20	2.18	0.040574
285.40	2.18	0.040577
285.60	2.18	0.040580
285.80	2.18	0.040582
286.00	2.18	0.040585
286.20	2.19	0.040588
286.40	2.19	0.040590
286.60	2.19	0.040593
286.80	2.19	0.040596
287.00	2.19	0.040598
287.20	2.19	0.040601
287.40	2.19	0.040604
287.60	2.19	0.040606
287.80	2.19	0.040609

288.00	2.19	0.040612
288.20	2.19	0.040614
288.40	2.19	0.040617
288.60	2.19	0.040620
288.80	2.19	0.040622
289.00	2.19	0.040625
289.20	2.19	0.040628
289.40	2.19	0.040630
289.60	2.19	0.040633
289.80	2.19	0.040636
290.00	2.19	0.040639
290.20	2.19	0.040641
290.40	2.19	0.040644
290.60	2.19	0.040647
290.80	2.19	0.040649
291.00	2.19	0.040652
291.20	2.19	0.040655
291.40	2.19	0.040657
291.60	2.19	0.040660
291.80	2.20	0.040663
292.00	2.20	0.040666
292.20	2.20	0.040668
292.40	2.20	0.040671
292.60	2.20	0.040674
292.80	2.20	0.040676
293.00	2.20	0.040679
293.20	2.20	0.040682
293.40	2.20	0.040684
293.60	2.20	0.040687
293.80	2.20	0.040690
294.00	2.20	0.040693
294.20	2.20	0.040695
294.40	2.20	0.040698
294.60	2.20	0.040701
294.80	2.20	0.040704
295.00	2.20	0.040706
295.20	2.20	0.040709
295.40	2.20	0.040712
295.60	2.20	0.040714
295.80	2.20	0.040717
296.00	2.20	0.040720
296.20	2.20	0.040723
296.40	2.20	0.040725
296.60	2.20	0.040728
296.80	2.20	0.040731
297.00	2.20	0.040734
297.20	2.21	0.040736
297.40	2.21	0.040739
297.60	2.21	0.040742
297.80	2.21	0.040744
298.00	2.21	0.040747
298.20	2.21	0.040750
298.40	2.21	0.040753
298.60	2.21	0.040755
298.80	2.21	0.040758
299.00	2.21	0.040761
299.20	2.21	0.040764
299.40	2.21	0.040766
299.60	2.21	0.040769
299.80	2.21	0.040772
300.00	2.21	0.040775
300.20	2.21	0.040777
300.40	2.21	0.040780
300.60	2.21	0.040783
300.80	2.21	0.040786
301.00	2.21	0.040788

301.20	2.21	0.040791
301.40	2.21	0.040794
301.60	2.21	0.040797
301.80	2.21	0.040799
302.00	2.21	0.040802
302.20	2.21	0.040805
302.40	2.21	0.040808
302.60	2.22	0.040810
302.80	2.22	0.040813
303.00	2.22	0.040816
303.20	2.22	0.040819
303.40	2.22	0.040822
303.60	2.22	0.040824
303.80	2.22	0.040827
304.00	2.22	0.040830
304.20	2.22	0.040833
304.40	2.22	0.040835
304.60	2.22	0.040838
304.80	2.22	0.040841
305.00	2.22	0.040844
305.20	2.22	0.040847
305.40	2.22	0.040849
305.60	2.22	0.040852
305.80	2.22	0.040855
306.00	2.22	0.040858
306.20	2.22	0.040860
306.40	2.22	0.040863
306.60	2.22	0.040866
306.80	2.22	0.040869
307.00	2.22	0.040872
307.20	2.22	0.040874
307.40	2.22	0.040877
307.60	2.22	0.040880
307.80	2.23	0.040883
308.00	2.23	0.040886
308.20	2.23	0.040888
308.40	2.23	0.040891
308.60	2.23	0.040894
308.80	2.23	0.040897
309.00	2.23	0.040900
309.20	2.23	0.040902
309.40	2.23	0.040905
309.60	2.23	0.040908
309.80	2.23	0.040911
310.00	2.23	0.040914
310.20	2.23	0.040916
310.40	2.23	0.040919
310.60	2.23	0.040922
310.80	2.23	0.040925
311.00	2.23	0.040928
311.20	2.23	0.040930
311.40	2.23	0.040933
311.60	2.23	0.040936
311.80	2.23	0.040939
312.00	2.23	0.040942
312.20	2.23	0.040945
312.40	2.23	0.040947
312.60	2.23	0.040950
312.80	2.23	0.040953
313.00	2.23	0.040956
313.20	2.24	0.040959
313.40	2.24	0.040961
313.60	2.24	0.040964
313.80	2.24	0.040967
314.00	2.24	0.040970
314.20	2.24	0.040973

314.40	2.24	0.040976
314.60	2.24	0.040978
314.80	2.24	0.040981
315.00	2.24	0.040984
315.20	2.24	0.040987
315.40	2.24	0.040990
315.60	2.24	0.040993
315.80	2.24	0.040996
316.00	2.24	0.040998
316.20	2.24	0.041001
316.40	2.24	0.041004
316.60	2.24	0.041007
316.80	2.24	0.041010
317.00	2.24	0.041013
317.20	2.24	0.041015
317.40	2.24	0.041018
317.60	2.24	0.041021
317.80	2.24	0.041024
318.00	2.24	0.041027
318.20	2.24	0.041030
318.40	2.25	0.041033
318.60	2.25	0.041035
318.80	2.25	0.041038
319.00	2.25	0.041041
319.20	2.25	0.041044
319.40	2.25	0.041047
319.60	2.25	0.041050
319.80	2.25	0.041053
320.00	2.25	0.041055
320.20	2.25	0.041058
320.40	2.25	0.041061
320.60	2.25	0.041064
320.80	2.25	0.041067
321.00	2.25	0.041070
321.20	2.25	0.041073
321.40	2.25	0.041076
321.60	2.25	0.041078
321.80	2.25	0.041081
322.00	2.25	0.041084
322.20	2.25	0.041087
322.40	2.25	0.041090
322.60	2.25	0.041093
322.80	2.25	0.041096
323.00	2.25	0.041099
323.20	2.25	0.041102
323.40	2.25	0.041104
323.60	2.26	0.041107
323.80	2.26	0.041110
324.00	2.26	0.041113
324.20	2.26	0.041116
324.40	2.26	0.041119
324.60	2.26	0.041122
324.80	2.26	0.041125
325.00	2.26	0.041128
325.20	2.26	0.041130
325.40	2.26	0.041133
325.60	2.26	0.041136
325.80	2.26	0.041139
326.00	2.26	0.041142
326.20	2.26	0.041145
326.40	2.26	0.041148
326.60	2.26	0.041151
326.80	2.26	0.041154
327.00	2.26	0.041157
327.20	2.26	0.041160
327.40	2.26	0.041162

327.60	2.26	0.041165
327.80	2.26	0.041168
328.00	2.26	0.041171
328.20	2.26	0.041174
328.40	2.26	0.041177
328.60	2.27	0.041180
328.80	2.27	0.041183
329.00	2.27	0.041186
329.20	2.27	0.041189
329.40	2.27	0.041192
329.60	2.27	0.041195
329.80	2.27	0.041198
330.00	2.27	0.041200
330.20	2.27	0.041203
330.40	2.27	0.041206
330.60	2.27	0.041209
330.80	2.27	0.041212
331.00	2.27	0.041215
331.20	2.27	0.041218
331.40	2.27	0.041221
331.60	2.27	0.041224
331.80	2.27	0.041227
332.00	2.27	0.041230
332.20	2.27	0.041233
332.40	2.27	0.041236
332.60	2.27	0.041239
332.80	2.27	0.041242
333.00	2.27	0.041245
333.20	2.27	0.041247
333.40	2.27	0.041250
333.60	2.28	0.041253
333.80	2.28	0.041256
334.00	2.28	0.041259
334.20	2.28	0.041262
334.40	2.28	0.041265
334.60	2.28	0.041268
334.80	2.28	0.041271
335.00	2.28	0.041274
335.20	2.28	0.041277
335.40	2.28	0.041280
335.60	2.28	0.041283
335.80	2.28	0.041286
336.00	2.28	0.041289
336.20	2.28	0.041292
336.40	2.28	0.041295
336.60	2.28	0.041298
336.80	2.28	0.041301
337.00	2.28	0.041304
337.20	2.28	0.041307
337.40	2.28	0.041310
337.60	2.28	0.041313
337.80	2.28	0.041316
338.00	2.28	0.041319
338.20	2.28	0.041322
338.40	2.28	0.041325
338.60	2.29	0.041328
338.80	2.29	0.041331
339.00	2.29	0.041334
339.20	2.29	0.041337
339.40	2.29	0.041340
339.60	2.29	0.041343
339.80	2.29	0.041346
340.00	2.29	0.041349
340.20	2.29	0.041352
340.40	2.29	0.041355
340.60	2.29	0.041358

340.80	2.29	0.041361
341.00	2.29	0.041364
341.20	2.29	0.041367
341.40	2.29	0.041370
341.60	2.29	0.041373
341.80	2.29	0.041376
342.00	2.29	0.041379
342.20	2.29	0.041382
342.40	2.29	0.041385
342.60	2.29	0.041388
342.80	2.29	0.041391
343.00	2.29	0.041394
343.20	2.29	0.041397
343.40	2.29	0.041400
343.60	2.30	0.041403
343.80	2.30	0.041406
344.00	2.30	0.041409
344.20	2.30	0.041412
344.40	2.30	0.041415
344.60	2.30	0.041418
344.80	2.30	0.041421
345.00	2.30	0.041424
345.20	2.30	0.041427
345.40	2.30	0.041430
345.60	2.30	0.041433
345.80	2.30	0.041436
346.00	2.30	0.041439
346.20	2.30	0.041442
346.40	2.30	0.041445
346.60	2.30	0.041448
346.80	2.30	0.041451
347.00	2.30	0.041454
347.20	2.30	0.041457
347.40	2.30	0.041460
347.60	2.30	0.041463
347.80	2.30	0.041466
348.00	2.30	0.041469
348.20	2.30	0.041473
348.40	2.31	0.041476
348.60	2.31	0.041479
348.80	2.31	0.041482
349.00	2.31	0.041485
349.20	2.31	0.041488
349.40	2.31	0.041491
349.60	2.31	0.041494
349.80	2.31	0.041497
350.00	2.31	0.041500
350.20	2.31	0.041503
350.40	2.31	0.041506
350.60	2.31	0.041509
350.80	2.31	0.041512
351.00	2.31	0.041515
351.20	2.31	0.041518
351.40	2.31	0.041522
351.60	2.31	0.041525
351.80	2.31	0.041528
352.00	2.31	0.041531
352.20	2.31	0.041534
352.40	2.31	0.041537
352.60	2.31	0.041540
352.80	2.31	0.041543
353.00	2.31	0.041546
353.20	2.32	0.041549
353.40	2.32	0.041552
353.60	2.32	0.041555
353.80	2.32	0.041558

354.00	2.32	0.041562
354.20	2.32	0.041565
354.40	2.32	0.041568
354.60	2.32	0.041571
354.80	2.32	0.041574
355.00	2.32	0.041577
355.20	2.32	0.041580
355.40	2.32	0.041583
355.60	2.32	0.041586
355.80	2.32	0.041589
356.00	2.32	0.041593
356.20	2.32	0.041596
356.40	2.32	0.041599
356.60	2.32	0.041602
356.80	2.32	0.041605
357.00	2.32	0.041608
357.20	2.32	0.041611
357.40	2.32	0.041614
357.60	2.32	0.041617
357.80	2.32	0.041621
358.00	2.33	0.041624
358.20	2.33	0.041627
358.40	2.33	0.041630
358.60	2.33	0.041633
358.80	2.33	0.041636
359.00	2.33	0.041639
359.20	2.33	0.041642
359.40	2.33	0.041645
359.60	2.33	0.041649
359.80	2.33	0.041652
360.00	2.33	0.041655
360.20	2.33	0.041658
360.40	2.33	0.041661
360.60	2.33	0.041664
360.80	2.33	0.041667
361.00	2.33	0.041671
361.20	2.33	0.041674
361.40	2.33	0.041677
361.60	2.33	0.041680
361.80	2.33	0.041683
362.00	2.33	0.041686
362.20	2.33	0.041689
362.40	2.33	0.041693
362.60	2.33	0.041696
362.80	2.34	0.041699
363.00	2.34	0.041702
363.20	2.34	0.041705
363.40	2.34	0.041708
363.60	2.34	0.041711
363.80	2.34	0.041715
364.00	2.34	0.041718
364.20	2.34	0.041721
364.40	2.34	0.041724
364.60	2.34	0.041727
364.80	2.34	0.041730
365.00	2.34	0.041734
365.20	2.34	0.041737
365.40	2.34	0.041740
365.60	2.34	0.041743
365.80	2.34	0.041746
366.00	2.34	0.041749
366.20	2.34	0.041753
366.40	2.34	0.041756
366.60	2.34	0.041759
366.80	2.34	0.041762
367.00	2.34	0.041765

367.20	2.34	0.041769
367.40	2.35	0.041772
367.60	2.35	0.041775
367.80	2.35	0.041778
368.00	2.35	0.041781
368.20	2.35	0.041784
368.40	2.35	0.041788
368.60	2.35	0.041791
368.80	2.35	0.041794
369.00	2.35	0.041797
369.20	2.35	0.041800
369.40	2.35	0.041804
369.60	2.35	0.041807
369.80	2.35	0.041810
370.00	2.35	0.041813
370.20	2.35	0.041816
370.40	2.35	0.041820
370.60	2.35	0.041823
370.80	2.35	0.041826
371.00	2.35	0.041829
371.20	2.35	0.041832
371.40	2.35	0.041836
371.60	2.35	0.041839
371.80	2.35	0.041842
372.00	2.36	0.041845
372.20	2.36	0.041849
372.40	2.36	0.041852
372.60	2.36	0.041855
372.80	2.36	0.041858
373.00	2.36	0.041861
373.20	2.36	0.041865
373.40	2.36	0.041868
373.60	2.36	0.041871
373.80	2.36	0.041874
374.00	2.36	0.041878
374.20	2.36	0.041881
374.40	2.36	0.041884
374.60	2.36	0.041887
374.80	2.36	0.041891
375.00	2.36	0.041894
375.20	2.36	0.041897
375.40	2.36	0.041900
375.60	2.36	0.041904
375.80	2.36	0.041907
376.00	2.36	0.041910
376.20	2.36	0.041913
376.40	2.36	0.041917
376.60	2.37	0.041920
376.80	2.37	0.041923
377.00	2.37	0.041926
377.20	2.37	0.041930
377.40	2.37	0.041933
377.60	2.37	0.041936
377.80	2.37	0.041939
378.00	2.37	0.041943
378.20	2.37	0.041946
378.40	2.37	0.041949
378.60	2.37	0.041952
378.80	2.37	0.041956
379.00	2.37	0.041959
379.20	2.37	0.041962
379.40	2.37	0.041965
379.60	2.37	0.041969
379.80	2.37	0.041972
380.00	2.37	0.041975
380.20	2.37	0.041979

380.40	2.37	0.041982
380.60	2.37	0.041985
380.80	2.37	0.041988
381.00	2.37	0.041992
381.20	2.38	0.041995
381.40	2.38	0.041998
381.60	2.38	0.042001
381.80	2.38	0.042005
382.00	2.38	0.042008
382.20	2.38	0.042011
382.40	2.38	0.042015
382.60	2.38	0.042018
382.80	2.38	0.042021
383.00	2.38	0.042025
383.20	2.38	0.042028
383.40	2.38	0.042031
383.60	2.38	0.042034
383.80	2.38	0.042038
384.00	2.38	0.042041
384.20	2.38	0.042044
384.40	2.38	0.042048
384.60	2.38	0.042051
384.80	2.38	0.042054
385.00	2.38	0.042058
385.20	2.38	0.042061
385.40	2.38	0.042064
385.60	2.39	0.042068
385.80	2.39	0.042071
386.00	2.39	0.042074
386.20	2.39	0.042078
386.40	2.39	0.042081
386.60	2.39	0.042084
386.80	2.39	0.042088
387.00	2.39	0.042091
387.20	2.39	0.042094
387.40	2.39	0.042098
387.60	2.39	0.042101
387.80	2.39	0.042104
388.00	2.39	0.042108
388.20	2.39	0.042111
388.40	2.39	0.042114
388.60	2.39	0.042118
388.80	2.39	0.042121
389.00	2.39	0.042124
389.20	2.39	0.042128
389.40	2.39	0.042131
389.60	2.39	0.042134
389.80	2.39	0.042138
390.00	2.40	0.042141
390.20	2.40	0.042144
390.40	2.40	0.042148
390.60	2.40	0.042151
390.80	2.40	0.042154
391.00	2.40	0.042158
391.20	2.40	0.042161
391.40	2.40	0.042165
391.60	2.40	0.042168
391.80	2.40	0.042171
392.00	2.40	0.042175
392.20	2.40	0.042178
392.40	2.40	0.042181
392.60	2.40	0.042185
392.80	2.40	0.042188
393.00	2.40	0.042192
393.20	2.40	0.042195
393.40	2.40	0.042198

393.60	2.40	0.042202
393.80	2.40	0.042205
394.00	2.40	0.042208
394.20	2.40	0.042212
394.40	2.41	0.042215
394.60	2.41	0.042219
394.80	2.41	0.042222
395.00	2.41	0.042225
395.20	2.41	0.042229
395.40	2.41	0.042232
395.60	2.41	0.042236
395.80	2.41	0.042239
396.00	2.41	0.042242
396.20	2.41	0.042246
396.40	2.41	0.042249
396.60	2.41	0.042253
396.80	2.41	0.042256
397.00	2.41	0.042259
397.20	2.41	0.042263
397.40	2.41	0.042266
397.60	2.41	0.042270
397.80	2.41	0.042273
398.00	2.41	0.042276
398.20	2.41	0.042280
398.40	2.41	0.042283
398.60	2.41	0.042287
398.80	2.42	0.042290
399.00	2.42	0.042294
399.20	2.42	0.042297
399.40	2.42	0.042300
399.60	2.42	0.042304
399.80	2.42	0.042307
400.00	2.42	0.042311
400.20	2.42	0.042314
400.40	2.42	0.042318
400.60	2.42	0.042321
400.80	2.42	0.042324
401.00	2.42	0.042328
401.20	2.42	0.042331
401.40	2.42	0.042335
401.60	2.42	0.042338
401.80	2.42	0.042342
402.00	2.42	0.042345
402.20	2.42	0.042349
402.40	2.42	0.042352
402.60	2.42	0.042356
402.80	2.42	0.042359
403.00	2.42	0.042362
403.20	2.43	0.042366
403.40	2.43	0.042369
403.60	2.43	0.042373
403.80	2.43	0.042376
404.00	2.43	0.042380
404.20	2.43	0.042383
404.40	2.43	0.042387
404.60	2.43	0.042390
404.80	2.43	0.042394
405.00	2.43	0.042397
405.20	2.43	0.042401
405.40	2.43	0.042404
405.60	2.43	0.042408
405.80	2.43	0.042411
406.00	2.43	0.042414
406.20	2.43	0.042418
406.40	2.43	0.042421
406.60	2.43	0.042425

406.80	2.43	0.042428
407.00	2.43	0.042432
407.20	2.43	0.042435
407.40	2.44	0.042439
407.60	2.44	0.042442
407.80	2.44	0.042446
408.00	2.44	0.042449
408.20	2.44	0.042453
408.40	2.44	0.042456
408.60	2.44	0.042460
408.80	2.44	0.042463
409.00	2.44	0.042467
409.20	2.44	0.042470
409.40	2.44	0.042474
409.60	2.44	0.042477
409.80	2.44	0.042481
410.00	2.44	0.042485
410.20	2.44	0.042488
410.40	2.44	0.042492
410.60	2.44	0.042495
410.80	2.44	0.042499
411.00	2.44	0.042502
411.20	2.44	0.042506
411.40	2.44	0.042509
411.60	2.45	0.042513
411.80	2.45	0.042516
412.00	2.45	0.042520
412.20	2.45	0.042523
412.40	2.45	0.042527
412.60	2.45	0.042530
412.80	2.45	0.042534
413.00	2.45	0.042537
413.20	2.45	0.042541
413.40	2.45	0.042545
413.60	2.45	0.042548
413.80	2.45	0.042552
414.00	2.45	0.042555
414.20	2.45	0.042559
414.40	2.45	0.042562
414.60	2.45	0.042566
414.80	2.45	0.042569
415.00	2.45	0.042573
415.20	2.45	0.042577
415.40	2.45	0.042580
415.60	2.45	0.042584
415.80	2.46	0.042587
416.00	2.46	0.042591
416.20	2.46	0.042594
416.40	2.46	0.042598
416.60	2.46	0.042601
416.80	2.46	0.042605
417.00	2.46	0.042609
417.20	2.46	0.042612
417.40	2.46	0.042616
417.60	2.46	0.042619
417.80	2.46	0.042623
418.00	2.46	0.042627
418.20	2.46	0.042630
418.40	2.46	0.042634
418.60	2.46	0.042637
418.80	2.46	0.042641
419.00	2.46	0.042645
419.20	2.46	0.042648
419.40	2.46	0.042652
419.60	2.46	0.042655
419.80	2.47	0.042659

420.00	2.47	0.042663
420.20	2.47	0.042666
420.40	2.47	0.042670
420.60	2.47	0.042673
420.80	2.47	0.042677
421.00	2.47	0.042681
421.20	2.47	0.042684
421.40	2.47	0.042688
421.60	2.47	0.042691
421.80	2.47	0.042695
422.00	2.47	0.042699
422.20	2.47	0.042702
422.40	2.47	0.042706
422.60	2.47	0.042709
422.80	2.47	0.042713
423.00	2.47	0.042717
423.20	2.47	0.042720
423.40	2.47	0.042724
423.60	2.47	0.042728
423.80	2.47	0.042731
424.00	2.48	0.042735
424.20	2.48	0.042739
424.40	2.48	0.042742
424.60	2.48	0.042746
424.80	2.48	0.042749
425.00	2.48	0.042753
425.20	2.48	0.042757
425.40	2.48	0.042760
425.60	2.48	0.042764
425.80	2.48	0.042768
426.00	2.48	0.042771
426.20	2.48	0.042775
426.40	2.48	0.042779
426.60	2.48	0.042782
426.80	2.48	0.042786
427.00	2.48	0.042790
427.20	2.48	0.042793
427.40	2.48	0.042797
427.60	2.48	0.042801
427.80	2.48	0.042804
428.00	2.49	0.042808
428.20	2.49	0.042812
428.40	2.49	0.042815
428.60	2.49	0.042819
428.80	2.49	0.042823
429.00	2.49	0.042826
429.20	2.49	0.042830
429.40	2.49	0.042834
429.60	2.49	0.042837
429.80	2.49	0.042841
430.00	2.49	0.042845
430.20	2.49	0.042849
430.40	2.49	0.042852
430.60	2.49	0.042856
430.80	2.49	0.042860
431.00	2.49	0.042863
431.20	2.49	0.042867
431.40	2.49	0.042871
431.60	2.49	0.042874
431.80	2.49	0.042878
432.00	2.50	0.042882
432.20	2.50	0.042886
432.40	2.50	0.042889
432.60	2.50	0.042893
432.80	2.50	0.042897
433.00	2.50	0.042900

433.20	2.50	0.042904
433.40	2.50	0.042908
433.60	2.50	0.042912
433.80	2.50	0.042915
434.00	2.50	0.042919
434.20	2.50	0.042923
434.40	2.50	0.042927
434.60	2.50	0.042930
434.80	2.50	0.042934
435.00	2.50	0.042938
435.20	2.50	0.042942
435.40	2.50	0.042945
435.60	2.50	0.042949
435.80	2.50	0.042953
436.00	2.51	0.042956
436.20	2.51	0.042960
436.40	2.51	0.042964
436.60	2.51	0.042968
436.80	2.51	0.042971
437.00	2.51	0.042975
437.20	2.51	0.042979
437.40	2.51	0.042983
437.60	2.51	0.042987
437.80	2.51	0.042990
438.00	2.51	0.042994
438.20	2.51	0.042998
438.40	2.51	0.043002
438.60	2.51	0.043005
438.80	2.51	0.043009
439.00	2.51	0.043013
439.20	2.51	0.043017
439.40	2.51	0.043020
439.60	2.51	0.043024
439.80	2.51	0.043028
440.00	2.52	0.043032
440.20	2.52	0.043036
440.40	2.52	0.043039
440.60	2.52	0.043043
440.80	2.52	0.043047
441.00	2.52	0.043051
441.20	2.52	0.043055
441.40	2.52	0.043058
441.60	2.52	0.043062
441.80	2.52	0.043066
442.00	2.52	0.043070
442.20	2.52	0.043074
442.40	2.52	0.043077
442.60	2.52	0.043081
442.80	2.52	0.043085
443.00	2.52	0.043089
443.20	2.52	0.043093
443.40	2.52	0.043096
443.60	2.52	0.043100
443.80	2.53	0.043104
444.00	2.53	0.043108
444.20	2.53	0.043112
444.40	2.53	0.043116
444.60	2.53	0.043119
444.80	2.53	0.043123
445.00	2.53	0.043127
445.20	2.53	0.043131
445.40	2.53	0.043135
445.60	2.53	0.043139
445.80	2.53	0.043142
446.00	2.53	0.043146
446.20	2.53	0.043150

446.40	2.53	0.043154
446.60	2.53	0.043158
446.80	2.53	0.043162
447.00	2.53	0.043165
447.20	2.53	0.043169
447.40	2.53	0.043173
447.60	2.54	0.043177
447.80	2.54	0.043181
448.00	2.54	0.043185
448.20	2.54	0.043189
448.40	2.54	0.043192
448.60	2.54	0.043196
448.80	2.54	0.043200
449.00	2.54	0.043204
449.20	2.54	0.043208
449.40	2.54	0.043212
449.60	2.54	0.043216
449.80	2.54	0.043220
450.00	2.54	0.043223
450.20	2.54	0.043227
450.40	2.54	0.043231
450.60	2.54	0.043235
450.80	2.54	0.043239
451.00	2.54	0.043243
451.20	2.54	0.043247
451.40	2.54	0.043251
451.60	2.55	0.043255
451.80	2.55	0.043259
452.00	2.55	0.043262
452.20	2.55	0.043266
452.40	2.55	0.043270
452.60	2.55	0.043274
452.80	2.55	0.043278
453.00	2.55	0.043282
453.20	2.55	0.043286
453.40	2.55	0.043290
453.60	2.55	0.043294
453.80	2.55	0.043298
454.00	2.55	0.043302
454.20	2.55	0.043305
454.40	2.55	0.043309
454.60	2.55	0.043313
454.80	2.55	0.043317
455.00	2.55	0.043321
455.20	2.56	0.043325
455.40	2.56	0.043329
455.60	2.56	0.043333
455.80	2.56	0.043337
456.00	2.56	0.043341
456.20	2.56	0.043345
456.40	2.56	0.043349
456.60	2.56	0.043353
456.80	2.56	0.043357
457.00	2.56	0.043361
457.20	2.56	0.043365
457.40	2.56	0.043368
457.60	2.56	0.043372
457.80	2.56	0.043376
458.00	2.56	0.043380
458.20	2.56	0.043384
458.40	2.56	0.043388
458.60	2.56	0.043392
458.80	2.56	0.043396
459.00	2.57	0.043400
459.20	2.57	0.043404
459.40	2.57	0.043408

459.60	2.57	0.043412
459.80	2.57	0.043416
460.00	2.57	0.043420
460.20	2.57	0.043424
460.40	2.57	0.043428
460.60	2.57	0.043432
460.80	2.57	0.043436
461.00	2.57	0.043440
461.20	2.57	0.043444
461.40	2.57	0.043448
461.60	2.57	0.043452
461.80	2.57	0.043456
462.00	2.57	0.043460
462.20	2.57	0.043464
462.40	2.57	0.043468
462.60	2.57	0.043472
462.80	2.58	0.043476
463.00	2.58	0.043480
463.20	2.58	0.043484
463.40	2.58	0.043488
463.60	2.58	0.043492
463.80	2.58	0.043496
464.00	2.58	0.043500
464.20	2.58	0.043504
464.40	2.58	0.043508
464.60	2.58	0.043512
464.80	2.58	0.043516
465.00	2.58	0.043520
465.20	2.58	0.043524
465.40	2.58	0.043528
465.60	2.58	0.043532
465.80	2.58	0.043536
466.00	2.58	0.043540
466.20	2.58	0.043545
466.40	2.59	0.043549
466.60	2.59	0.043553
466.80	2.59	0.043557
467.00	2.59	0.043561
467.20	2.59	0.043565
467.40	2.59	0.043569
467.60	2.59	0.043573
467.80	2.59	0.043577
468.00	2.59	0.043581
468.20	2.59	0.043585
468.40	2.59	0.043589
468.60	2.59	0.043593
468.80	2.59	0.043597
469.00	2.59	0.043601
469.20	2.59	0.043605
469.40	2.59	0.043610
469.60	2.59	0.043614
469.80	2.59	0.043618
470.00	2.60	0.043622
470.20	2.60	0.043626
470.40	2.60	0.043630
470.60	2.60	0.043634
470.80	2.60	0.043638
471.00	2.60	0.043642
471.20	2.60	0.043646
471.40	2.60	0.043650
471.60	2.60	0.043655
471.80	2.60	0.043659
472.00	2.60	0.043663
472.20	2.60	0.043667
472.40	2.60	0.043671
472.60	2.60	0.043675

472.80	2.60	0.043679
473.00	2.60	0.043683
473.20	2.60	0.043688
473.40	2.60	0.043692
473.60	2.61	0.043696
473.80	2.61	0.043700
474.00	2.61	0.043704
474.20	2.61	0.043708
474.40	2.61	0.043712
474.60	2.61	0.043716
474.80	2.61	0.043721
475.00	2.61	0.043725
475.20	2.61	0.043729
475.40	2.61	0.043733
475.60	2.61	0.043737
475.80	2.61	0.043741
476.00	2.61	0.043745
476.20	2.61	0.043750
476.40	2.61	0.043754
476.60	2.61	0.043758
476.80	2.61	0.043762
477.00	2.61	0.043766
477.20	2.62	0.043770
477.40	2.62	0.043775
477.60	2.62	0.043779
477.80	2.62	0.043783
478.00	2.62	0.043787
478.20	2.62	0.043791
478.40	2.62	0.043795
478.60	2.62	0.043800
478.80	2.62	0.043804
479.00	2.62	0.043808
479.20	2.62	0.043812
479.40	2.62	0.043816
479.60	2.62	0.043821
479.80	2.62	0.043825
480.00	2.62	0.043829
480.20	2.62	0.043833
480.40	2.62	0.043837
480.60	2.62	0.043842
480.80	2.63	0.043846
481.00	2.63	0.043850
481.20	2.63	0.043854
481.40	2.63	0.043858
481.60	2.63	0.043863
481.80	2.63	0.043867
482.00	2.63	0.043871
482.20	2.63	0.043875
482.40	2.63	0.043879
482.60	2.63	0.043884
482.80	2.63	0.043888
483.00	2.63	0.043892
483.20	2.63	0.043896
483.40	2.63	0.043901
483.60	2.63	0.043905
483.80	2.63	0.043909
484.00	2.63	0.043913
484.20	2.64	0.043918
484.40	2.64	0.043922
484.60	2.64	0.043926
484.80	2.64	0.043930
485.00	2.64	0.043935
485.20	2.64	0.043939
485.40	2.64	0.043943
485.60	2.64	0.043947
485.80	2.64	0.043952

486.00	2.64	0.043956
486.20	2.64	0.043960
486.40	2.64	0.043964
486.60	2.64	0.043969
486.80	2.64	0.043973
487.00	2.64	0.043977
487.20	2.64	0.043981
487.40	2.64	0.043986
487.60	2.64	0.043990
487.80	2.65	0.043994
488.00	2.65	0.043999
488.20	2.65	0.044003
488.40	2.65	0.044007
488.60	2.65	0.044011
488.80	2.65	0.044016
489.00	2.65	0.044020
489.20	2.65	0.044024
489.40	2.65	0.044029
489.60	2.65	0.044033
489.80	2.65	0.044037
490.00	2.65	0.044042
490.20	2.65	0.044046
490.40	2.65	0.044050
490.60	2.65	0.044055
490.80	2.65	0.044059
491.00	2.65	0.044063
491.20	2.66	0.044067
491.40	2.66	0.044072
491.60	2.66	0.044076
491.80	2.66	0.044080
492.00	2.66	0.044085
492.20	2.66	0.044089
492.40	2.66	0.044093
492.60	2.66	0.044098
492.80	2.66	0.044102
493.00	2.66	0.044106
493.20	2.66	0.044111
493.40	2.66	0.044115
493.60	2.66	0.044120
493.80	2.66	0.044124
494.00	2.66	0.044128
494.20	2.66	0.044133
494.40	2.66	0.044137
494.60	2.67	0.044141
494.80	2.67	0.044146
495.00	2.67	0.044150
495.20	2.67	0.044154
495.40	2.67	0.044159
495.60	2.67	0.044163
495.80	2.67	0.044167
496.00	2.67	0.044172
496.20	2.67	0.044176
496.40	2.67	0.044181
496.60	2.67	0.044185
496.80	2.67	0.044189
497.00	2.67	0.044194
497.20	2.67	0.044198
497.40	2.67	0.044203
497.60	2.67	0.044207
497.80	2.67	0.044211
498.00	2.68	0.044216
498.20	2.68	0.044220
498.40	2.68	0.044225
498.60	2.68	0.044229
498.80	2.68	0.044233
499.00	2.68	0.044238

499.20	2.68	0.044242
499.40	2.68	0.044247
499.60	2.68	0.044251
499.80	2.68	0.044256
500.00	2.68	0.044260
500.20	2.68	0.044264
500.40	2.68	0.044269
500.60	2.68	0.044273
500.80	2.68	0.044278
501.00	2.68	0.044282
501.20	2.68	0.044287
501.40	2.69	0.044291
501.60	2.69	0.044296
501.80	2.69	0.044300
502.00	2.69	0.044304
502.20	2.69	0.044309
502.40	2.69	0.044313
502.60	2.69	0.044318
502.80	2.69	0.044322
503.00	2.69	0.044327
503.20	2.69	0.044331
503.40	2.69	0.044336
503.60	2.69	0.044340
503.80	2.69	0.044345
504.00	2.69	0.044349
504.20	2.69	0.044354
504.40	2.69	0.044358
504.60	2.70	0.044363
504.80	2.70	0.044367
505.00	2.70	0.044371
505.20	2.70	0.044376
505.40	2.70	0.044380
505.60	2.70	0.044385
505.80	2.70	0.044389
506.00	2.70	0.044394
506.20	2.70	0.044398
506.40	2.70	0.044403
506.60	2.70	0.044407
506.80	2.70	0.044412
507.00	2.70	0.044417
507.20	2.70	0.044421
507.40	2.70	0.044426
507.60	2.70	0.044430
507.80	2.70	0.044435
508.00	2.71	0.044439
508.20	2.71	0.044444
508.40	2.71	0.044448
508.60	2.71	0.044453
508.80	2.71	0.044457
509.00	2.71	0.044462
509.20	2.71	0.044466
509.40	2.71	0.044471
509.60	2.71	0.044475
509.80	2.71	0.044480
510.00	2.71	0.044485
510.20	2.71	0.044489
510.40	2.71	0.044494
510.60	2.71	0.044498
510.80	2.71	0.044503
511.00	2.71	0.044507
511.20	2.72	0.044512
511.40	2.72	0.044516
511.60	2.72	0.044521
511.80	2.72	0.044526
512.00	2.72	0.044530
512.20	2.72	0.044535

512.40	2.72	0.044539
512.60	2.72	0.044544
512.80	2.72	0.044549
513.00	2.72	0.044553
513.20	2.72	0.044558
513.40	2.72	0.044562
513.60	2.72	0.044567
513.80	2.72	0.044571
514.00	2.72	0.044576
514.20	2.72	0.044581
514.40	2.73	0.044585
514.60	2.73	0.044590
514.80	2.73	0.044595
515.00	2.73	0.044599
515.20	2.73	0.044604
515.40	2.73	0.044608
515.60	2.73	0.044613
515.80	2.73	0.044618
516.00	2.73	0.044622
516.20	2.73	0.044627
516.40	2.73	0.044632
516.60	2.73	0.044636
516.80	2.73	0.044641
517.00	2.73	0.044645
517.20	2.73	0.044650
517.40	2.73	0.044655
517.60	2.74	0.044659
517.80	2.74	0.044664
518.00	2.74	0.044669
518.20	2.74	0.044673
518.40	2.74	0.044678
518.60	2.74	0.044683
518.80	2.74	0.044687
519.00	2.74	0.044692
519.20	2.74	0.044697
519.40	2.74	0.044701
519.60	2.74	0.044706
519.80	2.74	0.044711
520.00	2.74	0.044715
520.20	2.74	0.044720
520.40	2.74	0.044725
520.60	2.74	0.044729
520.80	2.75	0.044734
521.00	2.75	0.044739
521.20	2.75	0.044743
521.40	2.75	0.044748
521.60	2.75	0.044753
521.80	2.75	0.044758
522.00	2.75	0.044762
522.20	2.75	0.044767
522.40	2.75	0.044772
522.60	2.75	0.044776
522.80	2.75	0.044781
523.00	2.75	0.044786
523.20	2.75	0.044791
523.40	2.75	0.044795
523.60	2.75	0.044800
523.80	2.75	0.044805
524.00	2.76	0.044810
524.20	2.76	0.044814
524.40	2.76	0.044819
524.60	2.76	0.044824
524.80	2.76	0.044828
525.00	2.76	0.044833
525.20	2.76	0.044838
525.40	2.76	0.044843

525.60	2.76	0.044847
525.80	2.76	0.044852
526.00	2.76	0.044857
526.20	2.76	0.044862
526.40	2.76	0.044867
526.60	2.76	0.044871
526.80	2.76	0.044876
527.00	2.77	0.044881
527.20	2.77	0.044886
527.40	2.77	0.044890
527.60	2.77	0.044895
527.80	2.77	0.044900
528.00	2.77	0.044905
528.20	2.77	0.044910
528.40	2.77	0.044914
528.60	2.77	0.044919
528.80	2.77	0.044924
529.00	2.77	0.044929
529.20	2.77	0.044934
529.40	2.77	0.044938
529.60	2.77	0.044943
529.80	2.77	0.044948
530.00	2.77	0.044953
530.20	2.78	0.044958
530.40	2.78	0.044962
530.60	2.78	0.044967
530.80	2.78	0.044972
531.00	2.78	0.044977
531.20	2.78	0.044982
531.40	2.78	0.044987
531.60	2.78	0.044991
531.80	2.78	0.044996
532.00	2.78	0.045001
532.20	2.78	0.045006
532.40	2.78	0.045011
532.60	2.78	0.045016
532.80	2.78	0.045021
533.00	2.78	0.045025
533.20	2.79	0.045030
533.40	2.79	0.045035
533.60	2.79	0.045040
533.80	2.79	0.045045
534.00	2.79	0.045050
534.20	2.79	0.045055
534.40	2.79	0.045059
534.60	2.79	0.045064
534.80	2.79	0.045069
535.00	2.79	0.045074
535.20	2.79	0.045079
535.40	2.79	0.045084
535.60	2.79	0.045089
535.80	2.79	0.045094
536.00	2.79	0.045099
536.20	2.80	0.045103
536.40	2.80	0.045108
536.60	2.80	0.045113
536.80	2.80	0.045118
537.00	2.80	0.045123
537.20	2.80	0.045128
537.40	2.80	0.045133
537.60	2.80	0.045138
537.80	2.80	0.045143
538.00	2.80	0.045148
538.20	2.80	0.045153
538.40	2.80	0.045158
538.60	2.80	0.045163

538.80	2.80	0.045167
539.00	2.80	0.045172
539.20	2.81	0.045177
539.40	2.81	0.045182
539.60	2.81	0.045187
539.80	2.81	0.045192
540.00	2.81	0.045197
540.20	2.81	0.045202
540.40	2.81	0.045207
540.60	2.81	0.045212
540.80	2.81	0.045217
541.00	2.81	0.045222
541.20	2.81	0.045227
541.40	2.81	0.045232
541.60	2.81	0.045237
541.80	2.81	0.045242
542.00	2.81	0.045247
542.20	2.82	0.045252
542.40	2.82	0.045257
542.60	2.82	0.045262
542.80	2.82	0.045267
543.00	2.82	0.045272
543.20	2.82	0.045277
543.40	2.82	0.045282
543.60	2.82	0.045287
543.80	2.82	0.045292
544.00	2.82	0.045297
544.20	2.82	0.045302
544.40	2.82	0.045307
544.60	2.82	0.045312
544.80	2.82	0.045317
545.00	2.82	0.045322
545.20	2.83	0.045327
545.40	2.83	0.045332
545.60	2.83	0.045337
545.80	2.83	0.045342
546.00	2.83	0.045347
546.20	2.83	0.045352
546.40	2.83	0.045357
546.60	2.83	0.045362
546.80	2.83	0.045367
547.00	2.83	0.045372
547.20	2.83	0.045378
547.40	2.83	0.045383
547.60	2.83	0.045388
547.80	2.83	0.045393
548.00	2.84	0.045398
548.20	2.84	0.045403
548.40	2.84	0.045408
548.60	2.84	0.045413
548.80	2.84	0.045418
549.00	2.84	0.045423
549.20	2.84	0.045428
549.40	2.84	0.045433
549.60	2.84	0.045439
549.80	2.84	0.045444
550.00	2.84	0.045449
550.20	2.84	0.045454
550.40	2.84	0.045459
550.60	2.84	0.045464
550.80	2.84	0.045469
551.00	2.85	0.045474
551.20	2.85	0.045479
551.40	2.85	0.045485
551.60	2.85	0.045490
551.80	2.85	0.045495

552.00	2.85	0.045500
552.20	2.85	0.045505
552.40	2.85	0.045510
552.60	2.85	0.045515
552.80	2.85	0.045520
553.00	2.85	0.045526
553.20	2.85	0.045531
553.40	2.85	0.045536
553.60	2.85	0.045541
553.80	2.86	0.045546
554.00	2.86	0.045551
554.20	2.86	0.045557
554.40	2.86	0.045562
554.60	2.86	0.045567
554.80	2.86	0.045572
555.00	2.86	0.045577
555.20	2.86	0.045583
555.40	2.86	0.045588
555.60	2.86	0.045593
555.80	2.86	0.045598
556.00	2.86	0.045603
556.20	2.86	0.045609
556.40	2.86	0.045614
556.60	2.86	0.045619
556.80	2.87	0.045624
557.00	2.87	0.045629
557.20	2.87	0.045635
557.40	2.87	0.045640
557.60	2.87	0.045645
557.80	2.87	0.045650
558.00	2.87	0.045655
558.20	2.87	0.045661
558.40	2.87	0.045666
558.60	2.87	0.045671
558.80	2.87	0.045676
559.00	2.87	0.045682
559.20	2.87	0.045687
559.40	2.87	0.045692
559.60	2.88	0.045697
559.80	2.88	0.045703
560.00	2.88	0.045708
560.20	2.88	0.045713
560.40	2.88	0.045718
560.60	2.88	0.045724
560.80	2.88	0.045729
561.00	2.88	0.045734
561.20	2.88	0.045740
561.40	2.88	0.045745
561.60	2.88	0.045750
561.80	2.88	0.045755
562.00	2.88	0.045761
562.20	2.88	0.045766
562.40	2.89	0.045771
562.60	2.89	0.045777
562.80	2.89	0.045782
563.00	2.89	0.045787
563.20	2.89	0.045792
563.40	2.89	0.045798
563.60	2.89	0.045803
563.80	2.89	0.045808
564.00	2.89	0.045814
564.20	2.89	0.045819
564.40	2.89	0.045824
564.60	2.89	0.045830
564.80	2.89	0.045835
565.00	2.89	0.045840

565.20	2.90	0.045846
565.40	2.90	0.045851
565.60	2.90	0.045856
565.80	2.90	0.045862
566.00	2.90	0.045867
566.20	2.90	0.045873
566.40	2.90	0.045878
566.60	2.90	0.045883
566.80	2.90	0.045889
567.00	2.90	0.045894
567.20	2.90	0.045899
567.40	2.90	0.045905
567.60	2.90	0.045910
567.80	2.91	0.045916
568.00	2.91	0.045921
568.20	2.91	0.045926
568.40	2.91	0.045932
568.60	2.91	0.045937
568.80	2.91	0.045943
569.00	2.91	0.045948
569.20	2.91	0.045953
569.40	2.91	0.045959
569.60	2.91	0.045964
569.80	2.91	0.045970
570.00	2.91	0.045975
570.20	2.91	0.045980
570.40	2.91	0.045986
570.60	2.92	0.045991
570.80	2.92	0.045997
571.00	2.92	0.046002
571.20	2.92	0.046008
571.40	2.92	0.046013
571.60	2.92	0.046018
571.80	2.92	0.046024
572.00	2.92	0.046029
572.20	2.92	0.046035
572.40	2.92	0.046040
572.60	2.92	0.046046
572.80	2.92	0.046051
573.00	2.92	0.046057
573.20	2.92	0.046062
573.40	2.93	0.046068
573.60	2.93	0.046073
573.80	2.93	0.046079
574.00	2.93	0.046084
574.20	2.93	0.046090
574.40	2.93	0.046095
574.60	2.93	0.046101
574.80	2.93	0.046106
575.00	2.93	0.046112
575.20	2.93	0.046117
575.40	2.93	0.046123
575.60	2.93	0.046128
575.80	2.93	0.046134
576.00	2.94	0.046139
576.20	2.94	0.046145
576.40	2.94	0.046150
576.60	2.94	0.046156
576.80	2.94	0.046161
577.00	2.94	0.046167
577.20	2.94	0.046172
577.40	2.94	0.046178
577.60	2.94	0.046184
577.80	2.94	0.046189
578.00	2.94	0.046195
578.20	2.94	0.046200

578.40	2.94	0.046206
578.60	2.94	0.046211
578.80	2.95	0.046217
579.00	2.95	0.046222
579.20	2.95	0.046228
579.40	2.95	0.046234
579.60	2.95	0.046239
579.80	2.95	0.046245
580.00	2.95	0.046250
580.20	2.95	0.046256
580.40	2.95	0.046262
580.60	2.95	0.046267
580.80	2.95	0.046273
581.00	2.95	0.046278
581.20	2.95	0.046284
581.40	2.96	0.046290
581.60	2.96	0.046295
581.80	2.96	0.046301
582.00	2.96	0.046307
582.20	2.96	0.046312
582.40	2.96	0.046318
582.60	2.96	0.046323
582.80	2.96	0.046329
583.00	2.96	0.046335
583.20	2.96	0.046340
583.40	2.96	0.046346
583.60	2.96	0.046352
583.80	2.96	0.046357
584.00	2.97	0.046363
584.20	2.97	0.046369
584.40	2.97	0.046374
584.60	2.97	0.046380
584.80	2.97	0.046386
585.00	2.97	0.046391
585.20	2.97	0.046397
585.40	2.97	0.046403
585.60	2.97	0.046408
585.80	2.97	0.046414
586.00	2.97	0.046420
586.20	2.97	0.046426
586.40	2.97	0.046431
586.60	2.98	0.046437
586.80	2.98	0.046443
587.00	2.98	0.046448
587.20	2.98	0.046454
587.40	2.98	0.046460
587.60	2.98	0.046466
587.80	2.98	0.046471
588.00	2.98	0.046477
588.20	2.98	0.046483
588.40	2.98	0.046488
588.60	2.98	0.046494
588.80	2.98	0.046500
589.00	2.98	0.046506
589.20	2.99	0.046511
589.40	2.99	0.046517
589.60	2.99	0.046523
589.80	2.99	0.046529
590.00	2.99	0.046535
590.20	2.99	0.046540
590.40	2.99	0.046546
590.60	2.99	0.046552
590.80	2.99	0.046558
591.00	2.99	0.046563
591.20	2.99	0.046569
591.40	2.99	0.046575

591.60	2.99	0.046581
591.80	3.00	0.046587
592.00	3.00	0.046592
592.20	3.00	0.046598
592.40	3.00	0.046604
592.60	3.00	0.046610
592.80	3.00	0.046616
593.00	3.00	0.046622
593.20	3.00	0.046627
593.40	3.00	0.046633
593.60	3.00	0.046639
593.80	3.00	0.046645
594.00	3.00	0.046651
594.20	3.01	0.046657
594.40	3.01	0.046663
594.60	3.01	0.046668
594.80	3.01	0.046674
595.00	3.01	0.046680
595.20	3.01	0.046686
595.40	3.01	0.046692
595.60	3.01	0.046698
595.80	3.01	0.046704
596.00	3.01	0.046709
596.20	3.01	0.046715
596.40	3.01	0.046721
596.60	3.01	0.046727
596.80	3.02	0.046733
597.00	3.02	0.046739
597.20	3.02	0.046745
597.40	3.02	0.046751
597.60	3.02	0.046757
597.80	3.02	0.046763
598.00	3.02	0.046768
598.20	3.02	0.046774
598.40	3.02	0.046780
598.60	3.02	0.046786
598.80	3.02	0.046792
599.00	3.02	0.046798
599.20	3.03	0.046804
599.40	3.03	0.046810
599.60	3.03	0.046816
599.80	3.03	0.046822
600.00	3.03	0.046828
600.20	3.03	0.046834
600.40	3.03	0.046840
600.60	3.03	0.046846
600.80	3.03	0.046852
601.00	3.03	0.046858
601.20	3.03	0.046864
601.40	3.03	0.046870
601.60	3.03	0.046876
601.80	3.04	0.046882
602.00	3.04	0.046888
602.20	3.04	0.046894
602.40	3.04	0.046900
602.60	3.04	0.046906
602.80	3.04	0.046912
603.00	3.04	0.046918
603.20	3.04	0.046924
603.40	3.04	0.046930
603.60	3.04	0.046936
603.80	3.04	0.046942
604.00	3.04	0.046948
604.20	3.05	0.046954
604.40	3.05	0.046960
604.60	3.05	0.046966

604.80	3.05	0.046972
605.00	3.05	0.046978
605.20	3.05	0.046984
605.40	3.05	0.046990
605.60	3.05	0.046996
605.80	3.05	0.047002
606.00	3.05	0.047008
606.20	3.05	0.047015
606.40	3.05	0.047021
606.60	3.06	0.047027
606.80	3.06	0.047033
607.00	3.06	0.047039
607.20	3.06	0.047045
607.40	3.06	0.047051
607.60	3.06	0.047057
607.80	3.06	0.047063
608.00	3.06	0.047069
608.20	3.06	0.047076
608.40	3.06	0.047082
608.60	3.06	0.047088
608.80	3.06	0.047094
609.00	3.07	0.047100
609.20	3.07	0.047106
609.40	3.07	0.047112
609.60	3.07	0.047118
609.80	3.07	0.047125
610.00	3.07	0.047131
610.20	3.07	0.047137
610.40	3.07	0.047143
610.60	3.07	0.047149
610.80	3.07	0.047155
611.00	3.07	0.047162
611.20	3.07	0.047168
611.40	3.08	0.047174
611.60	3.08	0.047180
611.80	3.08	0.047186
612.00	3.08	0.047193
612.20	3.08	0.047199
612.40	3.08	0.047205
612.60	3.08	0.047211
612.80	3.08	0.047217
613.00	3.08	0.047224
613.20	3.08	0.047230
613.40	3.08	0.047236
613.60	3.08	0.047242
613.80	3.09	0.047249
614.00	3.09	0.047255
614.20	3.09	0.047261
614.40	3.09	0.047267
614.60	3.09	0.047274
614.80	3.09	0.047280
615.00	3.09	0.047286
615.20	3.09	0.047292
615.40	3.09	0.047299
615.60	3.09	0.047305
615.80	3.09	0.047311
616.00	3.09	0.047317
616.20	3.10	0.047324
616.40	3.10	0.047330
616.60	3.10	0.047336
616.80	3.10	0.047343
617.00	3.10	0.047349
617.20	3.10	0.047355
617.40	3.10	0.047362
617.60	3.10	0.047368
617.80	3.10	0.047374

618.00	3.10	0.047381
618.20	3.10	0.047387
618.40	3.10	0.047393
618.60	3.11	0.047399
618.80	3.11	0.047406
619.00	3.11	0.047412
619.20	3.11	0.047419
619.40	3.11	0.047425
619.60	3.11	0.047431
619.80	3.11	0.047438
620.00	3.11	0.047444
620.20	3.11	0.047450
620.40	3.11	0.047457
620.60	3.11	0.047463
620.80	3.11	0.047469
621.00	3.12	0.047476
621.20	3.12	0.047482
621.40	3.12	0.047489
621.60	3.12	0.047495
621.80	3.12	0.047501
622.00	3.12	0.047508
622.20	3.12	0.047514
622.40	3.12	0.047521
622.60	3.12	0.047527
622.80	3.12	0.047533
623.00	3.12	0.047540
623.20	3.13	0.047546
623.40	3.13	0.047553
623.60	3.13	0.047559
623.80	3.13	0.047566
624.00	3.13	0.047572
624.20	3.13	0.047579
624.40	3.13	0.047585
624.60	3.13	0.047591
624.80	3.13	0.047598
625.00	3.13	0.047604
625.20	3.13	0.047611
625.40	3.13	0.047617
625.60	3.14	0.047624
625.80	3.14	0.047630
626.00	3.14	0.047637
626.20	3.14	0.047643
626.40	3.14	0.047650
626.60	3.14	0.047656
626.80	3.14	0.047663
627.00	3.14	0.047669
627.20	3.14	0.047676
627.40	3.14	0.047682
627.60	3.14	0.047689
627.80	3.15	0.047695
628.00	3.15	0.047702
628.20	3.15	0.047709
628.40	3.15	0.047715
628.60	3.15	0.047722
628.80	3.15	0.047728
629.00	3.15	0.047735
629.20	3.15	0.047741
629.40	3.15	0.047748
629.60	3.15	0.047754
629.80	3.15	0.047761
630.00	3.16	0.047768
630.20	3.16	0.047774
630.40	3.16	0.047781
630.60	3.16	0.047787
630.80	3.16	0.047794
631.00	3.16	0.047801

631.20	3.16	0.047807
631.40	3.16	0.047814
631.60	3.16	0.047820
631.80	3.16	0.047827
632.00	3.16	0.047834
632.20	3.17	0.047840
632.40	3.17	0.047847
632.60	3.17	0.047854
632.80	3.17	0.047860
633.00	3.17	0.047867
633.20	3.17	0.047874
633.40	3.17	0.047880
633.60	3.17	0.047887
633.80	3.17	0.047894
634.00	3.17	0.047900
634.20	3.17	0.047907
634.40	3.17	0.047914
634.60	3.18	0.047920
634.80	3.18	0.047927
635.00	3.18	0.047934
635.20	3.18	0.047940
635.40	3.18	0.047947
635.60	3.18	0.047954
635.80	3.18	0.047961
636.00	3.18	0.047967
636.20	3.18	0.047974
636.40	3.18	0.047981
636.60	3.18	0.047988
636.80	3.19	0.047994
637.00	3.19	0.048001
637.20	3.19	0.048008
637.40	3.19	0.048015
637.60	3.19	0.048021
637.80	3.19	0.048028
638.00	3.19	0.048035
638.20	3.19	0.048042
638.40	3.19	0.048048
638.60	3.19	0.048055
638.80	3.20	0.048062
639.00	3.20	0.048069
639.20	3.20	0.048076
639.40	3.20	0.048082
639.60	3.20	0.048089
639.80	3.20	0.048096
640.00	3.20	0.048103
640.20	3.20	0.048110
640.40	3.20	0.048116
640.60	3.20	0.048123
640.80	3.20	0.048130
641.00	3.21	0.048137
641.20	3.21	0.048144
641.40	3.21	0.048151
641.60	3.21	0.048157
641.80	3.21	0.048164
642.00	3.21	0.048171
642.20	3.21	0.048178
642.40	3.21	0.048185
642.60	3.21	0.048192
642.80	3.21	0.048199
643.00	3.21	0.048206
643.20	3.22	0.048212
643.40	3.22	0.048219
643.60	3.22	0.048226
643.80	3.22	0.048233
644.00	3.22	0.048240
644.20	3.22	0.048247

644.40	3.22	0.048254
644.60	3.22	0.048261
644.80	3.22	0.048268
645.00	3.22	0.048275
645.20	3.22	0.048282
645.40	3.23	0.048289
645.60	3.23	0.048296
645.80	3.23	0.048303
646.00	3.23	0.048309
646.20	3.23	0.048316
646.40	3.23	0.048323
646.60	3.23	0.048330
646.80	3.23	0.048337
647.00	3.23	0.048344
647.20	3.23	0.048351
647.40	3.24	0.048358
647.60	3.24	0.048365
647.80	3.24	0.048372
648.00	3.24	0.048379
648.20	3.24	0.048386
648.40	3.24	0.048393
648.60	3.24	0.048400
648.80	3.24	0.048407
649.00	3.24	0.048414
649.20	3.24	0.048421
649.40	3.24	0.048429
649.60	3.25	0.048436
649.80	3.25	0.048443
650.00	3.25	0.048450
650.20	3.25	0.048457
650.40	3.25	0.048464
650.60	3.25	0.048471
650.80	3.25	0.048478
651.00	3.25	0.048485
651.20	3.25	0.048492
651.40	3.25	0.048499
651.60	3.26	0.048506
651.80	3.26	0.048513
652.00	3.26	0.048521
652.20	3.26	0.048528
652.40	3.26	0.048535
652.60	3.26	0.048542
652.80	3.26	0.048549
653.00	3.26	0.048556
653.20	3.26	0.048563
653.40	3.26	0.048571
653.60	3.26	0.048578
653.80	3.27	0.048585
654.00	3.27	0.048592
654.20	3.27	0.048599
654.40	3.27	0.048606
654.60	3.27	0.048613
654.80	3.27	0.048621
655.00	3.27	0.048628
655.20	3.27	0.048635
655.40	3.27	0.048642
655.60	3.27	0.048649
655.80	3.28	0.048657
656.00	3.28	0.048664
656.20	3.28	0.048671
656.40	3.28	0.048678
656.60	3.28	0.048686
656.80	3.28	0.048693
657.00	3.28	0.048700
657.20	3.28	0.048707
657.40	3.28	0.048714

657.60	3.28	0.048722
657.80	3.29	0.048729
658.00	3.29	0.048736
658.20	3.29	0.048744
658.40	3.29	0.048751
658.60	3.29	0.048758
658.80	3.29	0.048765
659.00	3.29	0.048773
659.20	3.29	0.048780
659.40	3.29	0.048787
659.60	3.29	0.048795
659.80	3.29	0.048802
660.00	3.30	0.048809
660.20	3.30	0.048817
660.40	3.30	0.048824
660.60	3.30	0.048831
660.80	3.30	0.048839
661.00	3.30	0.048846
661.20	3.30	0.048853
661.40	3.30	0.048861
661.60	3.30	0.048868
661.80	3.30	0.048875
662.00	3.31	0.048883
662.20	3.31	0.048890
662.40	3.31	0.048897
662.60	3.31	0.048905
662.80	3.31	0.048912
663.00	3.31	0.048920
663.20	3.31	0.048927
663.40	3.31	0.048934
663.60	3.31	0.048942
663.80	3.31	0.048949
664.00	3.32	0.048957
664.20	3.32	0.048964
664.40	3.32	0.048972
664.60	3.32	0.048979
664.80	3.32	0.048986
665.00	3.32	0.048994
665.20	3.32	0.049001
665.40	3.32	0.049009
665.60	3.32	0.049016
665.80	3.32	0.049024
666.00	3.33	0.049031
666.20	3.33	0.049039
666.40	3.33	0.049046
666.60	3.33	0.049054
666.80	3.33	0.049061
667.00	3.33	0.049069
667.20	3.33	0.049076
667.40	3.33	0.049084
667.60	3.33	0.049091
667.80	3.34	0.049099
668.00	3.34	0.049106
668.20	3.34	0.049114
668.40	3.34	0.049122
668.60	3.34	0.049129
668.80	3.34	0.049137
669.00	3.34	0.049144
669.20	3.34	0.049152
669.40	3.34	0.049159
669.60	3.34	0.049167
669.80	3.35	0.049175
670.00	3.35	0.049182
670.20	3.35	0.049190
670.40	3.35	0.049197
670.60	3.35	0.049205

670.80	3.35	0.049212
671.00	3.35	0.049220
671.20	3.35	0.049228
671.40	3.35	0.049235
671.60	3.35	0.049243
671.80	3.36	0.049251
672.00	3.36	0.049258
672.20	3.36	0.049266
672.40	3.36	0.049274
672.60	3.36	0.049281
672.80	3.36	0.049289
673.00	3.36	0.049297
673.20	3.36	0.049304
673.40	3.36	0.049312
673.60	3.36	0.049320
673.80	3.37	0.049327
674.00	3.37	0.049335
674.20	3.37	0.049343
674.40	3.37	0.049350
674.60	3.37	0.049358
674.80	3.37	0.049366
675.00	3.37	0.049374
675.20	3.37	0.049381
675.40	3.37	0.049389
675.60	3.38	0.049397
675.80	3.38	0.049405
676.00	3.38	0.049412
676.20	3.38	0.049420
676.40	3.38	0.049428
676.60	3.38	0.049436
676.80	3.38	0.049444
677.00	3.38	0.049451
677.20	3.38	0.049459
677.40	3.38	0.049467
677.60	3.39	0.049475
677.80	3.39	0.049483
678.00	3.39	0.049490
678.20	3.39	0.049498
678.40	3.39	0.049506
678.60	3.39	0.049514
678.80	3.39	0.049522
679.00	3.39	0.049530
679.20	3.39	0.049537
679.40	3.40	0.049545
679.60	3.40	0.049553
679.80	3.40	0.049561
680.00	3.40	0.049569
680.20	3.40	0.049577
680.40	3.40	0.049585
680.60	3.40	0.049593
680.80	3.40	0.049601
681.00	3.40	0.049608
681.20	3.41	0.049616
681.40	3.41	0.049624
681.60	3.41	0.049632
681.80	3.41	0.049640
682.00	3.41	0.049648
682.20	3.41	0.049656
682.40	3.41	0.049664
682.60	3.41	0.049672
682.80	3.41	0.049680
683.00	3.41	0.049688
683.20	3.42	0.049696
683.40	3.42	0.049704
683.60	3.42	0.049712
683.80	3.42	0.049720

684.00	3.42	0.049728
684.20	3.42	0.049736
684.40	3.42	0.049744
684.60	3.42	0.049752
684.80	3.42	0.049760
685.00	3.43	0.049768
685.20	3.43	0.049776
685.40	3.43	0.049784
685.60	3.43	0.049792
685.80	3.43	0.049800
686.00	3.43	0.049808
686.20	3.43	0.049816
686.40	3.43	0.049824
686.60	3.43	0.049832
686.80	3.44	0.049840
687.00	3.44	0.049849
687.20	3.44	0.049857
687.40	3.44	0.049865
687.60	3.44	0.049873
687.80	3.44	0.049881
688.00	3.44	0.049889
688.20	3.44	0.049897
688.40	3.44	0.049905
688.60	3.45	0.049914
688.80	3.45	0.049922
689.00	3.45	0.049930
689.20	3.45	0.049938
689.40	3.45	0.049946
689.60	3.45	0.049954
689.80	3.45	0.049963
690.00	3.45	0.049971
690.20	3.45	0.049979
690.40	3.46	0.049987
690.60	3.46	0.049995
690.80	3.46	0.050004
691.00	3.46	0.050012
691.20	3.46	0.050020
691.40	3.46	0.050028
691.60	3.46	0.050036
691.80	3.46	0.050045
692.00	3.46	0.050053
692.20	3.47	0.050061
692.40	3.47	0.050069
692.60	3.47	0.050078
692.80	3.47	0.050086
693.00	3.47	0.050094
693.20	3.47	0.050103
693.40	3.47	0.050111
693.60	3.47	0.050119
693.80	3.47	0.050128
694.00	3.48	0.050136
694.20	3.48	0.050144
694.40	3.48	0.050153
694.60	3.48	0.050161
694.80	3.48	0.050169
695.00	3.48	0.050178
695.20	3.48	0.050186
695.40	3.48	0.050194
695.60	3.48	0.050203
695.80	3.49	0.050211
696.00	3.49	0.050219
696.20	3.49	0.050228
696.40	3.49	0.050236
696.60	3.49	0.050245
696.80	3.49	0.050253
697.00	3.49	0.050261

697.20	3.49	0.050270
697.40	3.49	0.050278
697.60	3.50	0.050287
697.80	3.50	0.050295
698.00	3.50	0.050304
698.20	3.50	0.050312
698.40	3.50	0.050320
698.60	3.50	0.050329
698.80	3.50	0.050337
699.00	3.50	0.050346
699.20	3.50	0.050354
699.40	3.51	0.050363
699.60	3.51	0.050371
699.80	3.51	0.050380
700.00	3.51	0.050388
700.20	3.51	0.050397
700.40	3.51	0.050405
700.60	3.51	0.050414
700.80	3.51	0.050423
701.00	3.52	0.050431
701.20	3.52	0.050440
701.40	3.52	0.050448
701.60	3.52	0.050457
701.80	3.52	0.050465
702.00	3.52	0.050474
702.20	3.52	0.050483
702.40	3.52	0.050491
702.60	3.52	0.050500
702.80	3.53	0.050508
703.00	3.53	0.050517
703.20	3.53	0.050526
703.40	3.53	0.050534
703.60	3.53	0.050543
703.80	3.53	0.050551
704.00	3.53	0.050560
704.20	3.53	0.050569
704.40	3.53	0.050577
704.60	3.54	0.050586
704.80	3.54	0.050595
705.00	3.54	0.050603
705.20	3.54	0.050612
705.40	3.54	0.050621
705.60	3.54	0.050630
705.80	3.54	0.050638
706.00	3.54	0.050647
706.20	3.55	0.050656
706.40	3.55	0.050664
706.60	3.55	0.050673
706.80	3.55	0.050682
707.00	3.55	0.050691
707.20	3.55	0.050699
707.40	3.55	0.050708
707.60	3.55	0.050717
707.80	3.55	0.050726
708.00	3.56	0.050735
708.20	3.56	0.050743
708.40	3.56	0.050752
708.60	3.56	0.050761
708.80	3.56	0.050770
709.00	3.56	0.050779
709.20	3.56	0.050787
709.40	3.56	0.050796
709.60	3.57	0.050805
709.80	3.57	0.050814
710.00	3.57	0.050823
710.20	3.57	0.050832

710.40	3.57	0.050841
710.60	3.57	0.050850
710.80	3.57	0.050858
711.00	3.57	0.050867
711.20	3.58	0.050876
711.40	3.58	0.050885
711.60	3.58	0.050894
711.80	3.58	0.050903
712.00	3.58	0.050912
712.20	3.58	0.050921
712.40	3.58	0.050930
712.60	3.58	0.050939
712.80	3.58	0.050948
713.00	3.59	0.050957
713.20	3.59	0.050966
713.40	3.59	0.050975
713.60	3.59	0.050984
713.80	3.59	0.050993
714.00	3.59	0.051002
714.20	3.59	0.051011
714.40	3.59	0.051020
714.60	3.60	0.051029
714.80	3.60	0.051038
715.00	3.60	0.051047
715.20	3.60	0.051056
715.40	3.60	0.051065
715.60	3.60	0.051074
715.80	3.60	0.051083
716.00	3.60	0.051092
716.20	3.61	0.051101
716.40	3.61	0.051110
716.60	3.61	0.051119
716.80	3.61	0.051129
717.00	3.61	0.051138
717.20	3.61	0.051147
717.40	3.61	0.051156
717.60	3.61	0.051165
717.80	3.62	0.051174
718.00	3.62	0.051183
718.20	3.62	0.051192
718.40	3.62	0.051202
718.60	3.62	0.051211
718.80	3.62	0.051220
719.00	3.62	0.051229
719.20	3.62	0.051238
719.40	3.63	0.051248
719.60	3.63	0.051257
719.80	3.63	0.051266
720.00	3.63	0.051275
720.20	3.63	0.051285
720.40	3.63	0.051294
720.60	3.63	0.051303
720.80	3.63	0.051312
721.00	3.64	0.051322
721.20	3.64	0.051331
721.40	3.64	0.051340
721.60	3.64	0.051349
721.80	3.64	0.051359
722.00	3.64	0.051368
722.20	3.64	0.051377
722.40	3.64	0.051387
722.60	3.65	0.051396
722.80	3.65	0.051405
723.00	3.65	0.051415
723.20	3.65	0.051424
723.40	3.65	0.051433

723.60	3.65	0.051443
723.80	3.65	0.051452
724.00	3.65	0.051462
724.20	3.66	0.051471
724.40	3.66	0.051480
724.60	3.66	0.051490
724.80	3.66	0.051499
725.00	3.66	0.051509
725.20	3.66	0.051518
725.40	3.66	0.051528
725.60	3.66	0.051537
725.80	3.67	0.051546
726.00	3.67	0.051556
726.20	3.67	0.051565
726.40	3.67	0.051575
726.60	3.67	0.051584
726.80	3.67	0.051594
727.00	3.67	0.051603
727.20	3.67	0.051613
727.40	3.68	0.051622
727.60	3.68	0.051632
727.80	3.68	0.051641
728.00	3.68	0.051651
728.20	3.68	0.051661
728.40	3.68	0.051670
728.60	3.68	0.051680
728.80	3.69	0.051689
729.00	3.69	0.051699
729.20	3.69	0.051708
729.40	3.69	0.051718
729.60	3.69	0.051728
729.80	3.69	0.051737
730.00	3.69	0.051747
730.20	3.69	0.051756
730.40	3.70	0.051766
730.60	3.70	0.051776
730.80	3.70	0.051785
731.00	3.70	0.051795
731.20	3.70	0.051805
731.40	3.70	0.051814
731.60	3.70	0.051824
731.80	3.70	0.051834
732.00	3.71	0.051844
732.20	3.71	0.051853
732.40	3.71	0.051863
732.60	3.71	0.051873
732.80	3.71	0.051882
733.00	3.71	0.051892
733.20	3.71	0.051902
733.40	3.72	0.051912
733.60	3.72	0.051921
733.80	3.72	0.051931
734.00	3.72	0.051941
734.20	3.72	0.051951
734.40	3.72	0.051961
734.60	3.72	0.051970
734.80	3.72	0.051980
735.00	3.73	0.051990
735.20	3.73	0.052000
735.40	3.73	0.052010
735.60	3.73	0.052020
735.80	3.73	0.052030
736.00	3.73	0.052039
736.20	3.73	0.052049
736.40	3.74	0.052059
736.60	3.74	0.052069

736.80	3.74	0.052079
737.00	3.74	0.052089
737.20	3.74	0.052099
737.40	3.74	0.052109
737.60	3.74	0.052119
737.80	3.74	0.052129
738.00	3.75	0.052139
738.20	3.75	0.052149
738.40	3.75	0.052159
738.60	3.75	0.052169
738.80	3.75	0.052179
739.00	3.75	0.052189
739.20	3.75	0.052199
739.40	3.76	0.052209
739.60	3.76	0.052219
739.80	3.76	0.052229
740.00	3.76	0.052239
740.20	3.76	0.052249
740.40	3.76	0.052259
740.60	3.76	0.052269
740.80	3.76	0.052279
741.00	3.77	0.052289
741.20	3.77	0.052299
741.40	3.77	0.052309
741.60	3.77	0.052319
741.80	3.77	0.052330
742.00	3.77	0.052340
742.20	3.77	0.052350
742.40	3.78	0.052360
742.60	3.78	0.052370
742.80	3.78	0.052380
743.00	3.78	0.052390
743.20	3.78	0.052401
743.40	3.78	0.052411
743.60	3.78	0.052421
743.80	3.79	0.052431
744.00	3.79	0.052441
744.20	3.79	0.052452
744.40	3.79	0.052462
744.60	3.79	0.052472
744.80	3.79	0.052482
745.00	3.79	0.052493
745.20	3.79	0.052503
745.40	3.80	0.052513
745.60	3.80	0.052524
745.80	3.80	0.052534
746.00	3.80	0.052544
746.20	3.80	0.052554
746.40	3.80	0.052565
746.60	3.80	0.052575
746.80	3.81	0.052586
747.00	3.81	0.052596
747.20	3.81	0.052606
747.40	3.81	0.052617
747.60	3.81	0.052627
747.80	3.81	0.052637
748.00	3.81	0.052648
748.20	3.82	0.052658
748.40	3.82	0.052669
748.60	3.82	0.052679
748.80	3.82	0.052690
749.00	3.82	0.052700
749.20	3.82	0.052710
749.40	3.82	0.052721
749.60	3.83	0.052731
749.80	3.83	0.052742

750.00	3.83	0.052752
750.20	3.83	0.052763
750.40	3.83	0.052773
750.60	3.83	0.052784
750.80	3.83	0.052794
751.00	3.84	0.052805
751.20	3.84	0.052816
751.40	3.84	0.052826
751.60	3.84	0.052837
751.80	3.84	0.052847
752.00	3.84	0.052858
752.20	3.84	0.052868
752.40	3.85	0.052879
752.60	3.85	0.052890
752.80	3.85	0.052900
753.00	3.85	0.052911
753.20	3.85	0.052922
753.40	3.85	0.052932
753.60	3.85	0.052943
753.80	3.86	0.052954
754.00	3.86	0.052964
754.20	3.86	0.052975
754.40	3.86	0.052986
754.60	3.86	0.052996
754.80	3.86	0.053007
755.00	3.86	0.053018
755.20	3.87	0.053029
755.40	3.87	0.053039
755.60	3.87	0.053050
755.80	3.87	0.053061
756.00	3.87	0.053072
756.20	3.87	0.053082
756.40	3.87	0.053093
756.60	3.88	0.053104
756.80	3.88	0.053115
757.00	3.88	0.053126
757.20	3.88	0.053137
757.40	3.88	0.053147
757.60	3.88	0.053158
757.80	3.88	0.053169
758.00	3.89	0.053180
758.20	3.89	0.053191
758.40	3.89	0.053202
758.60	3.89	0.053213
758.80	3.89	0.053224
759.00	3.89	0.053235
759.20	3.90	0.053245
759.40	3.90	0.053256
759.60	3.90	0.053267
759.80	3.90	0.053278
760.00	3.90	0.053289
760.20	3.90	0.053300
760.40	3.90	0.053311
760.60	3.91	0.053322
760.80	3.91	0.053333
761.00	3.91	0.053344
761.20	3.91	0.053355
761.40	3.91	0.053366
761.60	3.91	0.053378
761.80	3.91	0.053389
762.00	3.92	0.053400
762.20	3.92	0.053411
762.40	3.92	0.053422
762.60	3.92	0.053433
762.80	3.92	0.053444
763.00	3.92	0.053455

763.20	3.93	0.053466
763.40	3.93	0.053478
763.60	3.93	0.053489
763.80	3.93	0.053500
764.00	3.93	0.053511
764.20	3.93	0.053522
764.40	3.93	0.053533
764.60	3.94	0.053545
764.80	3.94	0.053556
765.00	3.94	0.053567
765.20	3.94	0.053578
765.40	3.94	0.053590
765.60	3.94	0.053601
765.80	3.94	0.053612
766.00	3.95	0.053623
766.20	3.95	0.053635
766.40	3.95	0.053646
766.60	3.95	0.053657
766.80	3.95	0.053669
767.00	3.95	0.053680
767.20	3.96	0.053691
767.40	3.96	0.053703
767.60	3.96	0.053714
767.80	3.96	0.053726
768.00	3.96	0.053737
768.20	3.96	0.053748
768.40	3.96	0.053760
768.60	3.97	0.053771
768.80	3.97	0.053783
769.00	3.97	0.053794
769.20	3.97	0.053805
769.40	3.97	0.053817
769.60	3.97	0.053828
769.80	3.98	0.053840
770.00	3.98	0.053851
770.20	3.98	0.053863
770.40	3.98	0.053874
770.60	3.98	0.053886
770.80	3.98	0.053898
771.00	3.98	0.053909
771.20	3.99	0.053921
771.40	3.99	0.053932
771.60	3.99	0.053944
771.80	3.99	0.053955
772.00	3.99	0.053967
772.20	3.99	0.053979
772.40	4.00	0.053990
772.60	4.00	0.054002
772.80	4.00	0.054014
773.00	4.00	0.054025
773.20	4.00	0.054037
773.40	4.00	0.054049
773.60	4.01	0.054060
773.80	4.01	0.054072
774.00	4.01	0.054084
774.20	4.01	0.054095
774.40	4.01	0.054107
774.60	4.01	0.054119
774.80	4.01	0.054131
775.00	4.02	0.054142
775.20	4.02	0.054154
775.40	4.02	0.054166
775.60	4.02	0.054178
775.80	4.02	0.054190
776.00	4.02	0.054201
776.20	4.03	0.054213

776.40	4.03	0.054225
776.60	4.03	0.054237
776.80	4.03	0.054249
777.00	4.03	0.054261
777.20	4.03	0.054273
777.40	4.04	0.054285
777.60	4.04	0.054296
777.80	4.04	0.054308
778.00	4.04	0.054320
778.20	4.04	0.054332
778.40	4.04	0.054344
778.60	4.05	0.054356
778.80	4.05	0.054368
779.00	4.05	0.054380
779.20	4.05	0.054392
779.40	4.05	0.054404
779.60	4.05	0.054416
779.80	4.06	0.054428
780.00	4.06	0.054440
780.20	4.06	0.054452
780.40	4.06	0.054465
780.60	4.06	0.054477
780.80	4.06	0.054489
781.00	4.06	0.054501
781.20	4.07	0.054513
781.40	4.07	0.054525
781.60	4.07	0.054537
781.80	4.07	0.054549
782.00	4.07	0.054562
782.20	4.07	0.054574
782.40	4.08	0.054586
782.60	4.08	0.054598
782.80	4.08	0.054610
783.00	4.08	0.054623
783.20	4.08	0.054635
783.40	4.08	0.054647
783.60	4.09	0.054659
783.80	4.09	0.054672
784.00	4.09	0.054684
784.20	4.09	0.054696
784.40	4.09	0.054709
784.60	4.09	0.054721
784.80	4.10	0.054733
785.00	4.10	0.054746
785.20	4.10	0.054758
785.40	4.10	0.054770
785.60	4.10	0.054783
785.80	4.10	0.054795
786.00	4.11	0.054807
786.20	4.11	0.054820
786.40	4.11	0.054832
786.60	4.11	0.054845
786.80	4.11	0.054857
787.00	4.11	0.054870
787.20	4.12	0.054882
787.40	4.12	0.054895
787.60	4.12	0.054907
787.80	4.12	0.054920
788.00	4.12	0.054932
788.20	4.12	0.054945
788.40	4.13	0.054957
788.60	4.13	0.054970
788.80	4.13	0.054982
789.00	4.13	0.054995
789.20	4.13	0.055008
789.40	4.14	0.055020

789.60	4.14	0.055033
789.80	4.14	0.055046
790.00	4.14	0.055058
790.20	4.14	0.055071
790.40	4.14	0.055084
790.60	4.15	0.055096
790.80	4.15	0.055109
791.00	4.15	0.055122
791.20	4.15	0.055134
791.40	4.15	0.055147
791.60	4.15	0.055160
791.80	4.16	0.055173
792.00	4.16	0.055185
792.20	4.16	0.055198
792.40	4.16	0.055211
792.60	4.16	0.055224
792.80	4.16	0.055237
793.00	4.17	0.055250
793.20	4.17	0.055262
793.40	4.17	0.055275
793.60	4.17	0.055288
793.80	4.17	0.055301
794.00	4.17	0.055314
794.20	4.18	0.055327
794.40	4.18	0.055340
794.60	4.18	0.055353
794.80	4.18	0.055366
795.00	4.18	0.055379
795.20	4.19	0.055392
795.40	4.19	0.055405
795.60	4.19	0.055418
795.80	4.19	0.055431
796.00	4.19	0.055444
796.20	4.19	0.055457
796.40	4.20	0.055470
796.60	4.20	0.055483
796.80	4.20	0.055496
797.00	4.20	0.055509
797.20	4.20	0.055522
797.40	4.20	0.055535
797.60	4.21	0.055549
797.80	4.21	0.055562
798.00	4.21	0.055575
798.20	4.21	0.055588
798.40	4.21	0.055601
798.60	4.22	0.055614
798.80	4.22	0.055628
799.00	4.22	0.055641
799.20	4.22	0.055654
799.40	4.22	0.055667
799.60	4.22	0.055681
799.80	4.23	0.055694
800.00	4.23	0.055707
800.20	4.23	0.055721
800.40	4.23	0.055734
800.60	4.23	0.055747
800.80	4.24	0.055761
801.00	4.24	0.055774
801.20	4.24	0.055787
801.40	4.24	0.055801
801.60	4.24	0.055814
801.80	4.24	0.055828
802.00	4.25	0.055841
802.20	4.25	0.055855
802.40	4.25	0.055868
802.60	4.25	0.055882

802.80	4.25	0.055895
803.00	4.26	0.055909
803.20	4.26	0.055922
803.40	4.26	0.055936
803.60	4.26	0.055949
803.80	4.26	0.055963
804.00	4.26	0.055976
804.20	4.27	0.055990
804.40	4.27	0.056003
804.60	4.27	0.056017
804.80	4.27	0.056031
805.00	4.27	0.056044
805.20	4.28	0.056058
805.40	4.28	0.056072
805.60	4.28	0.056085
805.80	4.28	0.056099
806.00	4.28	0.056113
806.20	4.28	0.056127
806.40	4.29	0.056140
806.60	4.29	0.056154
806.80	4.29	0.056168
807.00	4.29	0.056182
807.20	4.29	0.056195
807.40	4.30	0.056209
807.60	4.30	0.056223
807.80	4.30	0.056237
808.00	4.30	0.056251
808.20	4.30	0.056265
808.40	4.30	0.056279
808.60	4.31	0.056292
808.80	4.31	0.056306
809.00	4.31	0.056320
809.20	4.31	0.056334
809.40	4.31	0.056348
809.60	4.32	0.056362
809.80	4.32	0.056376
810.00	4.32	0.056390
810.20	4.32	0.056404
810.40	4.32	0.056418
810.60	4.33	0.056432
810.80	4.33	0.056446
811.00	4.33	0.056460
811.20	4.33	0.056475
811.40	4.33	0.056489
811.60	4.34	0.056503
811.80	4.34	0.056517
812.00	4.34	0.056531
812.20	4.34	0.056545
812.40	4.34	0.056559
812.60	4.34	0.056574
812.80	4.35	0.056588
813.00	4.35	0.056602
813.20	4.35	0.056616
813.40	4.35	0.056631
813.60	4.35	0.056645
813.80	4.36	0.056659
814.00	4.36	0.056673
814.20	4.36	0.056688
814.40	4.36	0.056702
814.60	4.36	0.056716
814.80	4.37	0.056731
815.00	4.37	0.056745
815.20	4.37	0.056760
815.40	4.37	0.056774
815.60	4.37	0.056788
815.80	4.38	0.056803

816.00	4.38	0.056817
816.20	4.38	0.056832
816.40	4.38	0.056846
816.60	4.38	0.056861
816.80	4.39	0.056875
817.00	4.39	0.056890
817.20	4.39	0.056904
817.40	4.39	0.056919
817.60	4.39	0.056933
817.80	4.40	0.056948
818.00	4.40	0.056963
818.20	4.40	0.056977
818.40	4.40	0.056992
818.60	4.40	0.057007
818.80	4.41	0.057021
819.00	4.41	0.057036
819.20	4.41	0.057051
819.40	4.41	0.057065
819.60	4.41	0.057080
819.80	4.42	0.057095
820.00	4.42	0.057110
820.20	4.42	0.057124
820.40	4.42	0.057139
820.60	4.42	0.057154
820.80	4.43	0.057169
821.00	4.43	0.057184
821.20	4.43	0.057199
821.40	4.43	0.057213
821.60	4.43	0.057228
821.80	4.44	0.057243
822.00	4.44	0.057258
822.20	4.44	0.057273
822.40	4.44	0.057288
822.60	4.44	0.057303
822.80	4.45	0.057318
823.00	4.45	0.057333
823.20	4.45	0.057348
823.40	4.45	0.057363
823.60	4.45	0.057378
823.80	4.46	0.057393
824.00	4.46	0.057408
824.20	4.46	0.057423
824.40	4.46	0.057439
824.60	4.46	0.057454
824.80	4.47	0.057469
825.00	4.47	0.057484
825.20	4.47	0.057499
825.40	4.47	0.057514
825.60	4.47	0.057530
825.80	4.48	0.057545
826.00	4.48	0.057560
826.20	4.48	0.057575
826.40	4.48	0.057591
826.60	4.48	0.057606
826.80	4.49	0.057621
827.00	4.49	0.057637
827.20	4.49	0.057652
827.40	4.49	0.057667
827.60	4.49	0.057683
827.80	4.50	0.057698
828.00	4.50	0.057714
828.20	4.50	0.057729
828.40	4.50	0.057745
828.60	4.51	0.057760
828.80	4.51	0.057775
829.00	4.51	0.057791

829.20	4.51	0.057807
829.40	4.51	0.057822
829.60	4.52	0.057838
829.80	4.52	0.057853
830.00	4.52	0.057869
830.20	4.52	0.057884
830.40	4.52	0.057900
830.60	4.53	0.057916
830.80	4.53	0.057931
831.00	4.53	0.057947
831.20	4.53	0.057963
831.40	4.53	0.057978
831.60	4.54	0.057994
831.80	4.54	0.058010
832.00	4.54	0.058026
832.20	4.54	0.058041
832.40	4.55	0.058057
832.60	4.55	0.058073
832.80	4.55	0.058089
833.00	4.55	0.058105
833.20	4.55	0.058121
833.40	4.56	0.058136
833.60	4.56	0.058152
833.80	4.56	0.058168
834.00	4.56	0.058184
834.20	4.56	0.058200
834.40	4.57	0.058216
834.60	4.57	0.058232
834.80	4.57	0.058248
835.00	4.57	0.058264
835.20	4.58	0.058280
835.40	4.58	0.058296
835.60	4.58	0.058313
835.80	4.58	0.058329
836.00	4.58	0.058345
836.20	4.59	0.058361
836.40	4.59	0.058377
836.60	4.59	0.058393
836.80	4.59	0.058409
837.00	4.60	0.058426
837.20	4.60	0.058442
837.40	4.60	0.058458
837.60	4.60	0.058474
837.80	4.60	0.058490
838.00	4.61	0.058505
838.20	4.61	0.058521
838.40	4.61	0.058537
838.60	4.61	0.058552
838.80	4.61	0.058567
839.00	4.62	0.058582
839.20	4.62	0.058598
839.40	4.62	0.058613
839.60	4.62	0.058627
839.80	4.62	0.058642
840.00	4.63	0.058657
840.20	4.63	0.058672
840.40	4.63	0.058687
840.60	4.63	0.058701
840.80	4.63	0.058716
841.00	4.64	0.058730
841.20	4.64	0.058745
841.40	4.64	0.058759
841.60	4.64	0.058773
841.80	4.64	0.058787
842.00	4.65	0.058802
842.20	4.65	0.058816

842.40	4.65	0.058830
842.60	4.65	0.058844
842.80	4.65	0.058858
843.00	4.66	0.058872
843.20	4.66	0.058886
843.40	4.66	0.058900
843.60	4.66	0.058914
843.80	4.66	0.058928
844.00	4.66	0.058942
844.20	4.67	0.058955
844.40	4.67	0.058969
844.60	4.67	0.058983
844.80	4.67	0.058997
845.00	4.67	0.059010
845.20	4.68	0.059024
845.40	4.68	0.059038
845.60	4.68	0.059051
845.80	4.68	0.059065
846.00	4.68	0.059079
846.20	4.69	0.059092
846.40	4.69	0.059106
846.60	4.69	0.059120
846.80	4.69	0.059133
847.00	4.69	0.059147
847.20	4.69	0.059160
847.40	4.70	0.059174
847.60	4.70	0.059187
847.80	4.70	0.059201
848.00	4.70	0.059214
848.20	4.70	0.059228
848.40	4.71	0.059241
848.60	4.71	0.059255
848.80	4.71	0.059269
849.00	4.71	0.059282
849.20	4.71	0.059296
849.40	4.71	0.059309
849.60	4.72	0.059323
849.80	4.72	0.059336
850.00	4.72	0.059350
850.20	4.72	0.059363
850.40	4.72	0.059377
850.60	4.73	0.059390
850.80	4.73	0.059404
851.00	4.73	0.059417
851.20	4.73	0.059431
851.40	4.73	0.059444
851.60	4.73	0.059458
851.80	4.74	0.059471
852.00	4.74	0.059485
852.20	4.74	0.059498
852.40	4.74	0.059512
852.60	4.74	0.059526
852.80	4.75	0.059539
853.00	4.75	0.059553
853.20	4.75	0.059566
853.40	4.75	0.059580
853.60	4.75	0.059593
853.80	4.75	0.059607
854.00	4.76	0.059621
854.20	4.76	0.059634
854.40	4.76	0.059648
854.60	4.76	0.059662
854.80	4.76	0.059675
855.00	4.77	0.059689
855.20	4.77	0.059703
855.40	4.77	0.059716

855.60	4.77	0.059730
855.80	4.77	0.059744
856.00	4.78	0.059757
856.20	4.78	0.059771
856.40	4.78	0.059785
856.60	4.78	0.059798
856.80	4.78	0.059812
857.00	4.78	0.059826
857.20	4.79	0.059840
857.40	4.79	0.059854
857.60	4.79	0.059867
857.80	4.79	0.059881
858.00	4.79	0.059895
858.20	4.80	0.059909
858.40	4.80	0.059923
858.60	4.80	0.059936
858.80	4.80	0.059950
859.00	4.80	0.059964
859.20	4.81	0.059977
859.40	4.81	0.059991
859.60	4.81	0.060004
859.80	4.81	0.060018
860.00	4.82	0.060031
860.20	4.82	0.060044
860.40	4.82	0.060057
860.60	4.82	0.060070
860.80	4.82	0.060083
861.00	4.83	0.060095
861.20	4.83	0.060108
861.40	4.83	0.060121
861.60	4.83	0.060133
861.80	4.83	0.060146
862.00	4.84	0.060159
862.20	4.84	0.060171
862.40	4.84	0.060183
862.60	4.84	0.060196
862.80	4.85	0.060208
863.00	4.85	0.060220
863.20	4.85	0.060233
863.40	4.85	0.060245
863.60	4.85	0.060257
863.80	4.86	0.060269
864.00	4.86	0.060281
864.20	4.86	0.060294
864.40	4.86	0.060306
864.60	4.86	0.060318
864.80	4.87	0.060330
865.00	4.87	0.060342
865.20	4.87	0.060354
865.40	4.87	0.060366
865.60	4.87	0.060378
865.80	4.88	0.060390
866.00	4.88	0.060402
866.20	4.88	0.060414
866.40	4.88	0.060426
866.60	4.88	0.060438
866.80	4.89	0.060450
867.00	4.89	0.060462
867.20	4.89	0.060474
867.40	4.89	0.060486
867.60	4.89	0.060497
867.80	4.90	0.060509
868.00	4.90	0.060521
868.20	4.90	0.060533
868.40	4.90	0.060545
868.60	4.90	0.060557

868.80	4.91	0.060569
869.00	4.91	0.060581
869.20	4.91	0.060593
869.40	4.91	0.060605
869.60	4.92	0.060617
869.80	4.92	0.060629
870.00	4.92	0.060640
870.20	4.92	0.060652
870.40	4.92	0.060664
870.60	4.93	0.060676
870.80	4.93	0.060688
871.00	4.93	0.060700
871.20	4.93	0.060712
871.40	4.93	0.060724
871.60	4.94	0.060736
871.80	4.94	0.060748
872.00	4.94	0.060760
872.20	4.94	0.060772
872.40	4.94	0.060784
872.60	4.95	0.060796
872.80	4.95	0.060808
873.00	4.95	0.060820
873.20	4.95	0.060832
873.40	4.95	0.060844
873.60	4.96	0.060856
873.80	4.96	0.060868
874.00	4.96	0.060880
874.20	4.96	0.060893
874.40	4.96	0.060905
874.60	4.97	0.060917
874.80	4.97	0.060929
875.00	4.97	0.060941
875.20	4.97	0.060953
875.40	4.97	0.060965
875.60	4.98	0.060977
875.80	4.98	0.060990
876.00	4.98	0.061002
876.20	4.98	0.061014
876.40	4.98	0.061026
876.60	4.99	0.061038
876.80	4.99	0.061051
877.00	4.99	0.061063
877.20	4.99	0.061075
877.40	5.00	0.061088
877.60	5.00	0.061100
877.80	5.00	0.061112
878.00	5.00	0.061124
878.20	5.00	0.061137
878.40	5.01	0.061149
878.60	5.01	0.061161
878.80	5.01	0.061174
879.00	5.01	0.061186
879.20	5.01	0.061199
879.40	5.02	0.061211
879.60	5.02	0.061223
879.80	5.02	0.061236
880.00	5.02	0.061248
880.20	5.02	0.061261
880.40	5.03	0.061273
880.60	5.03	0.061286
880.80	5.03	0.061298
881.00	5.03	0.061311
881.20	5.04	0.061323
881.40	5.04	0.061336
881.60	5.04	0.061348
881.80	5.04	0.061361

882.00	5.04	0.061374
882.20	5.05	0.061386
882.40	5.05	0.061399
882.60	5.05	0.061411
882.80	5.05	0.061424
883.00	5.05	0.061437
883.20	5.06	0.061449
883.40	5.06	0.061462
883.60	5.06	0.061475
883.80	5.06	0.061488
884.00	5.07	0.061500
884.20	5.07	0.061513
884.40	5.07	0.061526
884.60	5.07	0.061539
884.80	5.07	0.061551
885.00	5.08	0.061564
885.20	5.08	0.061577
885.40	5.08	0.061590
885.60	5.08	0.061603
885.80	5.09	0.061616
886.00	5.09	0.061629
886.20	5.09	0.061641
886.40	5.09	0.061654
886.60	5.09	0.061667
886.80	5.10	0.061680
887.00	5.10	0.061693
887.20	5.10	0.061706
887.40	5.10	0.061719
887.60	5.10	0.061732
887.80	5.11	0.061745
888.00	5.11	0.061758
888.20	5.11	0.061771
888.40	5.11	0.061784
888.60	5.12	0.061797
888.80	5.12	0.061811
889.00	5.12	0.061824
889.20	5.12	0.061837
889.40	5.12	0.061850
889.60	5.13	0.061863
889.80	5.13	0.061876
890.00	5.13	0.061890
890.20	5.13	0.061903
890.40	5.14	0.061916
890.60	5.14	0.061929
890.80	5.14	0.061943
891.00	5.14	0.061956
891.20	5.15	0.061969
891.40	5.15	0.061983
891.60	5.15	0.061996
891.80	5.15	0.062009
892.00	5.15	0.062023
892.20	5.16	0.062036
892.40	5.16	0.062049
892.60	5.16	0.062063
892.80	5.16	0.062076
893.00	5.17	0.062090
893.20	5.17	0.062103
893.40	5.17	0.062117
893.60	5.17	0.062130
893.80	5.17	0.062144
894.00	5.18	0.062157
894.20	5.18	0.062171
894.40	5.18	0.062184
894.60	5.18	0.062198
894.80	5.19	0.062211
895.00	5.19	0.062225

895.20	5.19	0.062239
895.40	5.19	0.062252
895.60	5.20	0.062266
895.80	5.20	0.062280
896.00	5.20	0.062293
896.20	5.20	0.062307
896.40	5.20	0.062321
896.60	5.21	0.062335
896.80	5.21	0.062348
897.00	5.21	0.062362
897.20	5.21	0.062376
897.40	5.22	0.062390
897.60	5.22	0.062404
897.80	5.22	0.062418
898.00	5.22	0.062431
898.20	5.23	0.062445
898.40	5.23	0.062459
898.60	5.23	0.062473
898.80	5.23	0.062487
899.00	5.24	0.062501
899.20	5.24	0.062515
899.40	5.24	0.062529
899.60	5.24	0.062543
899.80	5.25	0.062557
900.00	5.25	0.062571
900.20	5.25	0.062585
900.40	5.25	0.062599
900.60	5.25	0.062613
900.80	5.26	0.062628
901.00	5.26	0.062642
901.20	5.26	0.062656
901.40	5.26	0.062670
901.60	5.27	0.062684
901.80	5.27	0.062699
902.00	5.27	0.062713
902.20	5.27	0.062727
902.40	5.28	0.062741
902.60	5.28	0.062756
902.80	5.28	0.062770
903.00	5.28	0.062784
903.20	5.29	0.062799
903.40	5.29	0.062813
903.60	5.29	0.062827
903.80	5.29	0.062842
904.00	5.30	0.062856
904.20	5.30	0.062871
904.40	5.30	0.062885
904.60	5.30	0.062900
904.80	5.31	0.062914
905.00	5.31	0.062929
905.20	5.31	0.062943
905.40	5.31	0.062958
905.60	5.32	0.062972
905.80	5.32	0.062987
906.00	5.32	0.063001
906.20	5.32	0.063016
906.40	5.33	0.063031
906.60	5.33	0.063045
906.80	5.33	0.063060
907.00	5.33	0.063075
907.20	5.34	0.063089
907.40	5.34	0.063104
907.60	5.34	0.063119
907.80	5.34	0.063134
908.00	5.35	0.063149
908.20	5.35	0.063163

908.40	5.35	0.063178
908.60	5.35	0.063193
908.80	5.36	0.063208
909.00	5.36	0.063223
909.20	5.36	0.063238
909.40	5.36	0.063253
909.60	5.37	0.063268
909.80	5.37	0.063283
910.00	5.37	0.063298
910.20	5.37	0.063313
910.40	5.38	0.063328
910.60	5.38	0.063343
910.80	5.38	0.063358
911.00	5.38	0.063373
911.20	5.39	0.063388
911.40	5.39	0.063403
911.60	5.39	0.063418
911.80	5.39	0.063434
912.00	5.40	0.063449
912.20	5.40	0.063464
912.40	5.40	0.063479
912.60	5.40	0.063495
912.80	5.41	0.063510
913.00	5.41	0.063525
913.20	5.41	0.063541
913.40	5.42	0.063556
913.60	5.42	0.063571
913.80	5.42	0.063587
914.00	5.42	0.063602
914.20	5.43	0.063617
914.40	5.43	0.063633
914.60	5.43	0.063648
914.80	5.43	0.063664
915.00	5.44	0.063679
915.20	5.44	0.063695
915.40	5.44	0.063710
915.60	5.44	0.063726
915.80	5.45	0.063742
916.00	5.45	0.063757
916.20	5.45	0.063773
916.40	5.45	0.063789
916.60	5.46	0.063804
916.80	5.46	0.063820
917.00	5.46	0.063836
917.20	5.47	0.063851
917.40	5.47	0.063867
917.60	5.47	0.063883
917.80	5.47	0.063899
918.00	5.48	0.063915
918.20	5.48	0.063931
918.40	5.48	0.063946
918.60	5.48	0.063962
918.80	5.49	0.063978
919.00	5.49	0.063994
919.20	5.49	0.064010
919.40	5.50	0.064026
919.60	5.50	0.064042
919.80	5.50	0.064058
920.00	5.50	0.064074
920.20	5.51	0.064090
920.40	5.51	0.064106
920.60	5.51	0.064123
920.80	5.51	0.064139
921.00	5.52	0.064155
921.20	5.52	0.064171
921.40	5.52	0.064187

921.60	5.53	0.064204
921.80	5.53	0.064220
922.00	5.53	0.064236
922.20	5.53	0.064252
922.40	5.54	0.064269
922.60	5.54	0.064285
922.80	5.54	0.064301
923.00	5.54	0.064318
923.20	5.55	0.064334
923.40	5.55	0.064351
923.60	5.55	0.064367
923.80	5.56	0.064384
924.00	5.56	0.064400
924.20	5.56	0.064417
924.40	5.56	0.064433
924.60	5.57	0.064450
924.80	5.57	0.064466
925.00	5.57	0.064483
925.20	5.58	0.064500
925.40	5.58	0.064516
925.60	5.58	0.064533
925.80	5.58	0.064550
926.00	5.59	0.064566
926.20	5.59	0.064583
926.40	5.59	0.064600
926.60	5.60	0.064617
926.80	5.60	0.064634
927.00	5.60	0.064651
927.20	5.60	0.064667
927.40	5.61	0.064684
927.60	5.61	0.064701
927.80	5.61	0.064718
928.00	5.62	0.064735
928.20	5.62	0.064752
928.40	5.62	0.064769
928.60	5.62	0.064786
928.80	5.63	0.064803
929.00	5.63	0.064821
929.20	5.63	0.064838
929.40	5.64	0.064855
929.60	5.64	0.064872
929.80	5.64	0.064889
930.00	5.64	0.064906
930.20	5.65	0.064924
930.40	5.65	0.064941
930.60	5.65	0.064958
930.80	5.66	0.064976
931.00	5.66	0.064993
931.20	5.66	0.065010
931.40	5.67	0.065028
931.60	5.67	0.065045
931.80	5.67	0.065063
932.00	5.67	0.065080
932.20	5.68	0.065098
932.40	5.68	0.065115
932.60	5.68	0.065133
932.80	5.69	0.065150
933.00	5.69	0.065168
933.20	5.69	0.065186
933.40	5.70	0.065203
933.60	5.70	0.065221
933.80	5.70	0.065239
934.00	5.70	0.065256
934.20	5.71	0.065274
934.40	5.71	0.065292
934.60	5.71	0.065310

934.80	5.72	0.065328
935.00	5.72	0.065346
935.20	5.72	0.065363
935.40	5.73	0.065381
935.60	5.73	0.065399
935.80	5.73	0.065417
936.00	5.73	0.065435
936.20	5.74	0.065453
936.40	5.74	0.065471
936.60	5.74	0.065490
936.80	5.75	0.065508
937.00	5.75	0.065526
937.20	5.75	0.065544
937.40	5.76	0.065562
937.60	5.76	0.065580
937.80	5.76	0.065599
938.00	5.77	0.065617
938.20	5.77	0.065635
938.40	5.77	0.065654
938.60	5.77	0.065672
938.80	5.78	0.065690
939.00	5.78	0.065709
939.20	5.78	0.065727
939.40	5.79	0.065746
939.60	5.79	0.065764
939.80	5.79	0.065783
940.00	5.80	0.065801
940.20	5.80	0.065820
940.40	5.80	0.065838
940.60	5.81	0.065857
940.80	5.81	0.065876
941.00	5.81	0.065894
941.20	5.82	0.065913
941.40	5.82	0.065932
941.60	5.82	0.065951
941.80	5.83	0.065970
942.00	5.83	0.065988
942.20	5.83	0.066007
942.40	5.84	0.066026
942.60	5.84	0.066045
942.80	5.84	0.066064
943.00	5.84	0.066083
943.20	5.85	0.066102
943.40	5.85	0.066121
943.60	5.85	0.066140
943.80	5.86	0.066159
944.00	5.86	0.066178
944.20	5.86	0.066198
944.40	5.87	0.066217
944.60	5.87	0.066236
944.80	5.87	0.066255
945.00	5.88	0.066275
945.20	5.88	0.066294
945.40	5.88	0.066313
945.60	5.89	0.066333
945.80	5.89	0.066352
946.00	5.89	0.066371
946.20	5.90	0.066391
946.40	5.90	0.066410
946.60	5.90	0.066430
946.80	5.91	0.066449
947.00	5.91	0.066469
947.20	5.91	0.066489
947.40	5.92	0.066508
947.60	5.92	0.066528
947.80	5.92	0.066548

948.00	5.93	0.066567
948.20	5.93	0.066587
948.40	5.93	0.066607
948.60	5.94	0.066627
948.80	5.94	0.066647
949.00	5.94	0.066667
949.20	5.95	0.066687
949.40	5.95	0.066707
949.60	5.95	0.066727
949.80	5.96	0.066747
950.00	5.96	0.066767
950.20	5.96	0.066787
950.40	5.97	0.066807
950.60	5.97	0.066827
950.80	5.97	0.066847
951.00	5.98	0.066867
951.20	5.98	0.066888
951.40	5.99	0.066908
951.60	5.99	0.066928
951.80	5.99	0.066949
952.00	6.00	0.066969
952.20	6.00	0.066989
952.40	6.00	0.067010
952.60	6.01	0.067030
952.80	6.01	0.067051
953.00	6.01	0.067071
953.20	6.02	0.067092
953.40	6.02	0.067113
953.60	6.02	0.067133
953.80	6.03	0.067154
954.00	6.03	0.067175
954.20	6.03	0.067195
954.40	6.04	0.067216
954.60	6.04	0.067237
954.80	6.04	0.067258
955.00	6.05	0.067279
955.20	6.05	0.067300
955.40	6.06	0.067320
955.60	6.06	0.067341
955.80	6.06	0.067362
956.00	6.07	0.067384
956.20	6.07	0.067405
956.40	6.07	0.067426
956.60	6.08	0.067447
956.80	6.08	0.067468
957.00	6.08	0.067489
957.20	6.09	0.067511
957.40	6.09	0.067532
957.60	6.09	0.067553
957.80	6.10	0.067575
958.00	6.10	0.067596
958.20	6.11	0.067617
958.40	6.11	0.067639
958.60	6.11	0.067660
958.80	6.12	0.067682
959.00	6.12	0.067703
959.20	6.12	0.067725
959.40	6.13	0.067747
959.60	6.13	0.067768
959.80	6.14	0.067790
960.00	6.14	0.067812
960.20	6.14	0.067834
960.40	6.15	0.067856
960.60	6.15	0.067877
960.80	6.15	0.067899
961.00	6.16	0.067921

961.20	6.16	0.067943
961.40	6.16	0.067965
961.60	6.17	0.067987
961.80	6.17	0.068009
962.00	6.18	0.068032
962.20	6.18	0.068054
962.40	6.18	0.068076
962.60	6.19	0.068098
962.80	6.19	0.068120
963.00	6.20	0.068143
963.20	6.20	0.068165
963.40	6.20	0.068187
963.60	6.21	0.068210
963.80	6.21	0.068232
964.00	6.21	0.068255
964.20	6.22	0.068277
964.40	6.22	0.068300
964.60	6.23	0.068323
964.80	6.23	0.068345
965.00	6.23	0.068368
965.20	6.24	0.068391
965.40	6.24	0.068414
965.60	6.24	0.068436
965.80	6.25	0.068459
966.00	6.25	0.068482
966.20	6.26	0.068505
966.40	6.26	0.068528
966.60	6.26	0.068551
966.80	6.27	0.068574
967.00	6.27	0.068597
967.20	6.28	0.068620
967.40	6.28	0.068643
967.60	6.28	0.068667
967.80	6.29	0.068690
968.00	6.29	0.068713
968.20	6.30	0.068737
968.40	6.30	0.068760
968.60	6.30	0.068783
968.80	6.31	0.068807
969.00	6.31	0.068830
969.20	6.32	0.068854
969.40	6.32	0.068877
969.60	6.32	0.068901
969.80	6.33	0.068925
970.00	6.33	0.068948
970.20	6.34	0.068972
970.40	6.34	0.068996
970.60	6.34	0.069020
970.80	6.35	0.069044
971.00	6.35	0.069068
971.20	6.36	0.069092
971.40	6.36	0.069116
971.60	6.36	0.069140
971.80	6.37	0.069164
972.00	6.37	0.069188
972.20	6.38	0.069212
972.40	6.38	0.069236
972.60	6.39	0.069260
972.80	6.39	0.069285
973.00	6.39	0.069309
973.20	6.40	0.069334
973.40	6.40	0.069358
973.60	6.41	0.069382
973.80	6.41	0.069407
974.00	6.41	0.069432
974.20	6.42	0.069456

974.40	6.42	0.069481
974.60	6.43	0.069505
974.80	6.43	0.069530
975.00	6.44	0.069555
975.20	6.44	0.069580
975.40	6.44	0.069605
975.60	6.45	0.069630
975.80	6.45	0.069655
976.00	6.46	0.069680
976.20	6.46	0.069705
976.40	6.46	0.069730
976.60	6.47	0.069755
976.80	6.47	0.069780
977.00	6.48	0.069805
977.20	6.48	0.069831
977.40	6.49	0.069856
977.60	6.49	0.069881
977.80	6.50	0.069907
978.00	6.50	0.069932
978.20	6.50	0.069958
978.40	6.51	0.069983
978.60	6.51	0.070009
978.80	6.52	0.070035
979.00	6.52	0.070060
979.20	6.53	0.070086
979.40	6.53	0.070112
979.60	6.53	0.070138
979.80	6.54	0.070164
980.00	6.54	0.070190
980.20	6.55	0.070216
980.40	6.55	0.070242
980.60	6.56	0.070268
980.80	6.56	0.070294
981.00	6.57	0.070320
981.20	6.57	0.070347
981.40	6.57	0.070373
981.60	6.58	0.070399
981.80	6.58	0.070426
982.00	6.59	0.070452
982.20	6.59	0.070478
982.40	6.60	0.070505
982.60	6.60	0.070532
982.80	6.61	0.070558
983.00	6.61	0.070585
983.20	6.61	0.070612
983.40	6.62	0.070639
983.60	6.62	0.070665
983.80	6.63	0.070692
984.00	6.63	0.070719
984.20	6.64	0.070746
984.40	6.64	0.070773
984.60	6.65	0.070800
984.80	6.65	0.070828
985.00	6.66	0.070855
985.20	6.66	0.070882
985.40	6.67	0.070909
985.60	6.67	0.070937
985.80	6.67	0.070964
986.00	6.68	0.070992
986.20	6.68	0.071019
986.40	6.69	0.071047
986.60	6.69	0.071074
986.80	6.70	0.071102
987.00	6.70	0.071130
987.20	6.71	0.071158
987.40	6.71	0.071185

987.60	6.72	0.071213
987.80	6.72	0.071241
988.00	6.73	0.071269
988.20	6.73	0.071297
988.40	6.74	0.071325
988.60	6.74	0.071354
988.80	6.75	0.071382
989.00	6.75	0.071410
989.20	6.76	0.071438
989.40	6.76	0.071467
989.60	6.77	0.071495
989.80	6.77	0.071524
990.00	6.77	0.071552
990.20	6.78	0.071581
990.40	6.78	0.071610
990.60	6.79	0.071638
990.80	6.79	0.071667
991.00	6.80	0.071696
991.20	6.80	0.071725
991.40	6.81	0.071754
991.60	6.81	0.071783
991.80	6.82	0.071812
992.00	6.82	0.071841
992.20	6.83	0.071870
992.40	6.83	0.071900
992.60	6.84	0.071929
992.80	6.84	0.071958
993.00	6.85	0.071988
993.20	6.85	0.072017
993.40	6.86	0.072047
993.60	6.86	0.072077
993.80	6.87	0.072106
994.00	6.87	0.072136
994.20	6.88	0.072166
994.40	6.88	0.072196
994.60	6.89	0.072225
994.80	6.89	0.072255
995.00	6.90	0.072285
995.20	6.90	0.072316
995.40	6.91	0.072346
995.60	6.91	0.072376
995.80	6.92	0.072406
996.00	6.93	0.072437
996.20	6.93	0.072467
996.40	6.94	0.072497
996.60	6.94	0.072528
996.80	6.95	0.072559
997.00	6.95	0.072589
997.20	6.96	0.072620
997.40	6.96	0.072651
997.60	6.97	0.072682
997.80	6.97	0.072713
998.00	6.98	0.072743
998.20	6.98	0.072775
998.40	6.99	0.072806
998.60	6.99	0.072837
998.80	7.00	0.072868
999.00	7.00	0.072899
999.20	7.01	0.072931
999.40	7.01	0.072962
999.60	7.02	0.072994
999.80	7.03	0.073025
1000.00	7.03	0.073057
1000.20	7.04	0.073089
1000.40	7.04	0.073120
1000.60	7.05	0.073152

1000.80	7.05	0.073184
1001.00	7.06	0.073216
1001.20	7.06	0.073248
1001.40	7.07	0.073280
1001.60	7.07	0.073312
1001.80	7.08	0.073345
1002.00	7.08	0.073377
1002.20	7.09	0.073409
1002.40	7.10	0.073442
1002.60	7.10	0.073474
1002.80	7.11	0.073507
1003.00	7.11	0.073539
1003.20	7.12	0.073572
1003.40	7.12	0.073605
1003.60	7.13	0.073638
1003.80	7.13	0.073671
1004.00	7.14	0.073704
1004.20	7.15	0.073737
1004.40	7.15	0.073770
1004.60	7.16	0.073803
1004.80	7.16	0.073836
1005.00	7.17	0.073870
1005.20	7.17	0.073903
1005.40	7.18	0.073937
1005.60	7.19	0.073970
1005.80	7.19	0.074004
1006.00	7.20	0.074038
1006.20	7.20	0.074072
1006.40	7.21	0.074105
1006.60	7.21	0.074139
1006.80	7.22	0.074173
1007.00	7.23	0.074207
1007.20	7.23	0.074242
1007.40	7.24	0.074276
1007.60	7.24	0.074310
1007.80	7.25	0.074345
1008.00	7.26	0.074379
1008.20	7.26	0.074414
1008.40	7.27	0.074448
1008.60	7.27	0.074483
1008.80	7.28	0.074518
1009.00	7.28	0.074553
1009.20	7.29	0.074588
1009.40	7.30	0.074623
1009.60	7.30	0.074658
1009.80	7.31	0.074693
1010.00	7.31	0.074728
1010.20	7.32	0.074764
1010.40	7.33	0.074799
1010.60	7.33	0.074834
1010.80	7.34	0.074870
1011.00	7.34	0.074906
1011.20	7.35	0.074941
1011.40	7.36	0.074977
1011.60	7.36	0.075013
1011.80	7.37	0.075049
1012.00	7.38	0.075085
1012.20	7.38	0.075121
1012.40	7.39	0.075158
1012.60	7.39	0.075194
1012.80	7.40	0.075230
1013.00	7.41	0.075267
1013.20	7.41	0.075303
1013.40	7.42	0.075340
1013.60	7.42	0.075377
1013.80	7.43	0.075413

1014.00	7.44	0.075450
1014.20	7.44	0.075487
1014.40	7.45	0.075524
1014.60	7.46	0.075562
1014.80	7.46	0.075599
1015.00	7.47	0.075636
1015.20	7.48	0.075674
1015.40	7.48	0.075711
1015.60	7.49	0.075749
1015.80	7.49	0.075786
1016.00	7.50	0.075824
1016.20	7.51	0.075862
1016.40	7.51	0.075900
1016.60	7.52	0.075938
1016.80	7.53	0.075976
1017.00	7.53	0.076014
1017.20	7.54	0.076053
1017.40	7.55	0.076091
1017.60	7.55	0.076129
1017.80	7.56	0.076168
1018.00	7.57	0.076207
1018.20	7.57	0.076245
1018.40	7.58	0.076284
1018.60	7.59	0.076323
1018.80	7.59	0.076362
1019.00	7.60	0.076401
1019.20	7.61	0.076441
1019.40	7.61	0.076480
1019.60	7.62	0.076519
1019.80	7.63	0.076559
1020.00	7.63	0.076598
1020.20	7.64	0.076638
1020.40	7.65	0.076678
1020.60	7.65	0.076718
1020.80	7.66	0.076758
1021.00	7.67	0.076798
1021.20	7.67	0.076838
1021.40	7.68	0.076878
1021.60	7.69	0.076919
1021.80	7.69	0.076959
1022.00	7.70	0.077000
1022.20	7.71	0.077041
1022.40	7.71	0.077081
1022.60	7.72	0.077122
1022.80	7.73	0.077163
1023.00	7.74	0.077204
1023.20	7.74	0.077246
1023.40	7.75	0.077287
1023.60	7.76	0.077328
1023.80	7.76	0.077370
1024.00	7.77	0.077411
1024.20	7.78	0.077453
1024.40	7.78	0.077495
1024.60	7.79	0.077537
1024.80	7.80	0.077579
1025.00	7.81	0.077621
1025.20	7.81	0.077663
1025.40	7.82	0.077705
1025.60	7.83	0.077748
1025.80	7.84	0.077790
1026.00	7.84	0.077833
1026.20	7.85	0.077876
1026.40	7.86	0.077919
1026.60	7.86	0.077962
1026.80	7.87	0.078005
1027.00	7.88	0.078048

1027.20	7.89	0.078091
1027.40	7.89	0.078135
1027.60	7.90	0.078178
1027.80	7.91	0.078222
1028.00	7.92	0.078265
1028.20	7.92	0.078309
1028.40	7.93	0.078353
1028.60	7.94	0.078397
1028.80	7.95	0.078441
1029.00	7.95	0.078486
1029.20	7.96	0.078530
1029.40	7.97	0.078575
1029.60	7.98	0.078619
1029.80	7.98	0.078664
1030.00	7.99	0.078709
1030.20	8.00	0.078754
1030.40	8.01	0.078799
1030.60	8.01	0.078844
1030.80	8.02	0.078890
1031.00	8.03	0.078935
1031.20	8.04	0.078981
1031.40	8.05	0.079027
1031.60	8.05	0.079072
1031.80	8.06	0.079118
1032.00	8.07	0.079164
1032.20	8.08	0.079211
1032.40	8.08	0.079257
1032.60	8.09	0.079303
1032.80	8.10	0.079350
1033.00	8.11	0.079397
1033.20	8.12	0.079444
1033.40	8.12	0.079491
1033.60	8.13	0.079538
1033.80	8.14	0.079585
1034.00	8.15	0.079632
1034.20	8.16	0.079680
1034.40	8.16	0.079727
1034.60	8.17	0.079775
1034.80	8.18	0.079823
1035.00	8.19	0.079871
1035.20	8.20	0.079919
1035.40	8.21	0.079967
1035.60	8.22	0.080015
1035.80	8.22	0.080062
1036.00	8.23	0.080110
1036.20	8.24	0.080157
1036.40	8.25	0.080204
1036.60	8.26	0.080252
1036.80	8.27	0.080299
1037.00	8.28	0.080346
1037.20	8.29	0.080393
1037.40	8.30	0.080439
1037.60	8.31	0.080486
1037.80	8.32	0.080533
1038.00	8.33	0.080580
1038.20	8.33	0.080626
1038.40	8.34	0.080673
1038.60	8.35	0.080720
1038.80	8.36	0.080766
1039.00	8.37	0.080813
1039.20	8.38	0.080860
1039.40	8.39	0.080906
1039.60	8.40	0.080953
1039.80	8.41	0.081000
1040.00	8.42	0.081047
1040.20	8.43	0.081093

1040.40	8.44	0.081140
1040.60	8.44	0.081187
1040.80	8.45	0.081234
1041.00	8.46	0.081281
1041.20	8.47	0.081328
1041.40	8.48	0.081375
1041.60	8.49	0.081423
1041.80	8.50	0.081470
1042.00	8.51	0.081517
1042.20	8.52	0.081565
1042.40	8.53	0.081612
1042.60	8.54	0.081660
1042.80	8.55	0.081708
1043.00	8.56	0.081756
1043.20	8.56	0.081804
1043.40	8.57	0.081852
1043.60	8.58	0.081900
1043.80	8.59	0.081948
1044.00	8.60	0.081997
1044.20	8.61	0.082045
1044.40	8.62	0.082094
1044.60	8.63	0.082142
1044.80	8.64	0.082191
1045.00	8.65	0.082240
1045.20	8.66	0.082289
1045.40	8.67	0.082338
1045.60	8.68	0.082388
1045.80	8.69	0.082437
1046.00	8.70	0.082487
1046.20	8.71	0.082536
1046.40	8.72	0.082586
1046.60	8.73	0.082636
1046.80	8.74	0.082686
1047.00	8.75	0.082737
1047.20	8.76	0.082787
1047.40	8.77	0.082837
1047.60	8.78	0.082888
1047.80	8.79	0.082939
1048.00	8.80	0.082990
1048.20	8.81	0.083041
1048.40	8.82	0.083092
1048.60	8.83	0.083144
1048.80	8.84	0.083195
1049.00	8.85	0.083247
1049.20	8.86	0.083299
1049.40	8.87	0.083351
1049.60	8.88	0.083403
1049.80	8.89	0.083455
1050.00	8.90	0.083508
1050.20	8.91	0.083560
1050.40	8.92	0.083613
1050.60	8.93	0.083666
1050.80	8.94	0.083719
1051.00	8.95	0.083772
1051.20	8.96	0.083826
1051.40	8.97	0.083879
1051.60	8.98	0.083933
1051.80	8.99	0.083987
1052.00	9.00	0.084041
1052.20	9.01	0.084095
1052.40	9.02	0.084150
1052.60	9.03	0.084204
1052.80	9.04	0.084259
1053.00	9.05	0.084314
1053.20	9.06	0.084369
1053.40	9.08	0.084424

1053.60	9.09	0.084480
1053.80	9.10	0.084535
1054.00	9.11	0.084591
1054.20	9.12	0.084647
1054.40	9.13	0.084703
1054.60	9.14	0.084759
1054.80	9.15	0.084816
1055.00	9.16	0.084873
1055.20	9.17	0.084929
1055.40	9.18	0.084987
1055.60	9.20	0.085044
1055.80	9.21	0.085101
1056.00	9.22	0.085159
1056.20	9.23	0.085217
1056.40	9.24	0.085275
1056.60	9.25	0.085333
1056.80	9.26	0.085391
1057.00	9.28	0.085450
1057.20	9.29	0.085509
1057.40	9.30	0.085567
1057.60	9.31	0.085627
1057.80	9.32	0.085686
1058.00	9.33	0.085746
1058.20	9.34	0.085805
1058.40	9.36	0.085865
1058.60	9.37	0.085925
1058.80	9.38	0.085986
1059.00	9.39	0.086045
1059.20	9.40	0.086105
1059.40	9.41	0.086165
1059.60	9.43	0.086224
1059.80	9.44	0.086283
1060.00	9.45	0.086341
1060.20	9.46	0.086400
1060.40	9.47	0.086459
1060.60	9.48	0.086517
1060.80	9.49	0.086575
1061.00	9.51	0.086633
1061.20	9.52	0.086691
1061.40	9.53	0.086749
1061.60	9.54	0.086807
1061.80	9.55	0.086865
1062.00	9.56	0.086923
1062.20	9.57	0.086981
1062.40	9.59	0.087039
1062.60	9.60	0.087097
1062.80	9.61	0.087155
1063.00	9.62	0.087213
1063.20	9.63	0.087271
1063.40	9.64	0.087328
1063.60	9.65	0.087387
1063.80	9.66	0.087445
1064.00	9.68	0.087503
1064.20	9.69	0.087561
1064.40	9.70	0.087619
1064.60	9.71	0.087678
1064.80	9.72	0.087736
1065.00	9.73	0.087795
1065.20	9.74	0.087853
1065.40	9.76	0.087912
1065.60	9.77	0.087971
1065.80	9.78	0.088030
1066.00	9.79	0.088089
1066.20	9.80	0.088149
1066.40	9.81	0.088208
1066.60	9.83	0.088268

1066.80	9.84	0.088327
1067.00	9.85	0.088387
1067.20	9.86	0.088447
1067.40	9.87	0.088508
1067.60	9.88	0.088568
1067.80	9.90	0.088628
1068.00	9.91	0.088689
1068.20	9.92	0.088750
1068.40	9.93	0.088811
1068.60	9.94	0.088872
1068.80	9.96	0.088933
1069.00	9.97	0.088995
1069.20	9.98	0.089057
1069.40	9.99	0.089119
1069.60	10.00	0.089181
1069.80	10.02	0.089243
1070.00	10.03	0.089306
1070.20	10.04	0.089368
1070.40	10.05	0.089431
1070.60	10.06	0.089494
1070.80	10.08	0.089558
1071.00	10.09	0.089621
1071.20	10.10	0.089685
1071.40	10.11	0.089749
1071.60	10.13	0.089813
1071.80	10.14	0.089877
1072.00	10.15	0.089942
1072.20	10.16	0.090007
1072.40	10.18	0.090072
1072.60	10.19	0.090137
1072.80	10.20	0.090202
1073.00	10.22	0.090268
1073.20	10.23	0.090334
1073.40	10.24	0.090400
1073.60	10.25	0.090467
1073.80	10.27	0.090533
1074.00	10.28	0.090600
1074.20	10.29	0.090667
1074.40	10.31	0.090735
1074.60	10.32	0.090802
1074.80	10.33	0.090870
1075.00	10.35	0.090938
1075.20	10.36	0.091007
1075.40	10.37	0.091075
1075.60	10.39	0.091144
1075.80	10.40	0.091213
1076.00	10.41	0.091283
1076.20	10.43	0.091352
1076.40	10.44	0.091422
1076.60	10.45	0.091492
1076.80	10.47	0.091563
1077.00	10.48	0.091633
1077.20	10.50	0.091704
1077.40	10.51	0.091776
1077.60	10.52	0.091847
1077.80	10.54	0.091919
1078.00	10.55	0.091991
1078.20	10.56	0.092063
1078.40	10.58	0.092136
1078.60	10.59	0.092209
1078.80	10.61	0.092282
1079.00	10.62	0.092356
1079.20	10.64	0.092429
1079.40	10.65	0.092503
1079.60	10.67	0.092578
1079.80	10.68	0.092652

1080.00	10.69	0.092727
1080.20	10.71	0.092803
1080.40	10.72	0.092878
1080.60	10.74	0.092954
1080.80	10.75	0.093030
1081.00	10.77	0.093107
1081.20	10.78	0.093183
1081.40	10.80	0.093260
1081.60	10.81	0.093338
1081.80	10.83	0.093415
1082.00	10.84	0.093493
1082.20	10.86	0.093572
1082.40	10.87	0.093651
1082.60	10.89	0.093730
1082.80	10.91	0.093809
1083.00	10.92	0.093889
1083.20	10.94	0.093968
1083.40	10.95	0.094049
1083.60	10.97	0.094129
1083.80	10.98	0.094210
1084.00	11.00	0.094292
1084.20	11.02	0.094373
1084.40	11.03	0.094456
1084.60	11.05	0.094538
1084.80	11.06	0.094621
1085.00	11.08	0.094704
1085.20	11.10	0.094787
1085.40	11.11	0.094871
1085.60	11.13	0.094955
1085.80	11.14	0.095040
1086.00	11.16	0.095124
1086.20	11.18	0.095210
1086.40	11.19	0.095295
1086.60	11.21	0.095381
1086.80	11.23	0.095468
1087.00	11.25	0.095554
1087.20	11.26	0.095642
1087.40	11.28	0.095729
1087.60	11.30	0.095817
1087.80	11.31	0.095905
1088.00	11.33	0.095994
1088.20	11.35	0.096083
1088.40	11.37	0.096173
1088.60	11.38	0.096262
1088.80	11.40	0.096353
1089.00	11.42	0.096443
1089.20	11.44	0.096535
1089.40	11.45	0.096626
1089.60	11.47	0.096718
1089.80	11.49	0.096810
1090.00	11.51	0.096903
1090.20	11.53	0.096996
1090.40	11.54	0.097090
1090.60	11.56	0.097184
1090.80	11.58	0.097279
1091.00	11.60	0.097374
1091.20	11.62	0.097469
1091.40	11.64	0.097565
1091.60	11.66	0.097661
1091.80	11.67	0.097758
1092.00	11.69	0.097855
1092.20	11.71	0.097953
1092.40	11.73	0.098051
1092.60	11.75	0.098150
1092.80	11.77	0.098249
1093.00	11.79	0.098348

1093.20	11.81	0.098448
1093.40	11.83	0.098549
1093.60	11.85	0.098650
1093.80	11.87	0.098751
1094.00	11.89	0.098853
1094.20	11.91	0.098956
1094.40	11.93	0.099059
1094.60	11.95	0.099162
1094.80	11.97	0.099267
1095.00	11.99	0.099371
1095.20	12.01	0.099476
1095.40	12.03	0.099582
1095.60	12.05	0.099688
1095.80	12.07	0.099794
1096.00	12.09	0.099902
1096.20	12.11	0.100009
1096.40	12.14	0.100117
1096.60	12.16	0.100224
1096.80	12.18	0.100332
1097.00	12.20	0.100441
1097.20	12.23	0.100549
1097.40	12.25	0.100657
1097.60	12.27	0.100766
1097.80	12.30	0.100875
1098.00	12.32	0.100985
1098.20	12.34	0.101095
1098.40	12.36	0.101205
1098.60	12.39	0.101315
1098.80	12.41	0.101426
1099.00	12.43	0.101537
1099.20	12.46	0.101649
1099.40	12.48	0.101761
1099.60	12.51	0.101874
1099.80	12.53	0.101987
1100.00	12.55	0.102100
1100.20	12.58	0.102214
1100.40	12.60	0.102328
1100.60	12.62	0.102443
1100.80	12.65	0.102559
1101.00	12.67	0.102675
1101.20	12.70	0.102791
1101.40	12.72	0.102908
1101.60	12.75	0.103026
1101.80	12.77	0.103144
1102.00	12.80	0.103262
1102.20	12.82	0.103382
1102.40	12.85	0.103502
1102.60	12.87	0.103622
1102.80	12.90	0.103743
1103.00	12.92	0.103865
1103.20	12.95	0.103987
1103.40	12.97	0.104110
1103.60	13.00	0.104234
1103.80	13.03	0.104358
1104.00	13.05	0.104483
1104.20	13.08	0.104609
1104.40	13.11	0.104735
1104.60	13.13	0.104863
1104.80	13.16	0.104990
1105.00	13.19	0.105119
1105.20	13.21	0.105248
1105.40	13.24	0.105378
1105.60	13.27	0.105509
1105.80	13.29	0.105641
1106.00	13.32	0.105773
1106.20	13.35	0.105906

1106.40	13.38	0.106040
1106.60	13.41	0.106174
1106.80	13.44	0.106310
1107.00	13.46	0.106446
1107.20	13.49	0.106583
1107.40	13.52	0.106721
1107.60	13.55	0.106860
1107.80	13.58	0.106999
1108.00	13.61	0.107140
1108.20	13.64	0.107281
1108.40	13.67	0.107424
1108.60	13.70	0.107567
1108.80	13.73	0.107711
1109.00	13.76	0.107856
1109.20	13.79	0.108001
1109.40	13.82	0.108148
1109.60	13.85	0.108296
1109.80	13.88	0.108445
1110.00	13.91	0.108594
1110.20	13.95	0.108745
1110.40	13.98	0.108897
1110.60	14.01	0.109049
1110.80	14.04	0.109203
1111.00	14.07	0.109357
1111.20	14.11	0.109513
1111.40	14.14	0.109670
1111.60	14.17	0.109828
1111.80	14.21	0.109986
1112.00	14.24	0.110146
1112.20	14.27	0.110307
1112.40	14.31	0.110470
1112.60	14.34	0.110633
1112.80	14.38	0.110797
1113.00	14.41	0.110963
1113.20	14.45	0.111129
1113.40	14.48	0.111297
1113.60	14.52	0.111466
1113.80	14.55	0.111637
1114.00	14.59	0.111808
1114.20	14.62	0.111981
1114.40	14.66	0.112155
1114.60	14.70	0.112330
1114.80	14.73	0.112506
1115.00	14.77	0.112684
1115.20	14.81	0.112863
1115.40	14.85	0.113043
1115.60	14.88	0.113225
1115.80	14.92	0.113408
1116.00	14.96	0.113593
1116.20	15.00	0.113778
1116.40	15.04	0.113966
1116.60	15.08	0.114154
1116.80	15.12	0.114344
1117.00	15.16	0.114536
1117.20	15.20	0.114729
1117.40	15.24	0.114923
1117.60	15.28	0.115119
1117.80	15.32	0.115317
1118.00	15.36	0.115516
1118.20	15.41	0.115717
1118.40	15.45	0.115919
1118.60	15.49	0.116123
1118.80	15.53	0.116328
1119.00	15.58	0.116536
1119.20	15.62	0.116744
1119.40	15.67	0.116955

1119.60	15.71	0.117167
1119.80	15.75	0.117381
1120.00	15.80	0.117597
1120.20	15.85	0.117815
1120.40	15.89	0.118034
1120.60	15.94	0.118255
1120.80	15.98	0.118479
1121.00	16.03	0.118704
1121.20	16.08	0.118931
1121.40	16.13	0.119160
1121.60	16.18	0.119391
1121.80	16.22	0.119623
1122.00	16.27	0.119858
1122.20	16.34	0.120092
1122.40	16.41	0.120320
1122.60	16.49	0.120543
1122.80	16.56	0.120762
1123.00	16.64	0.120978
1123.20	16.71	0.121190
1123.40	16.78	0.121399
1123.60	16.85	0.121606
1123.80	16.92	0.121811
1124.00	16.99	0.122014
1124.20	17.05	0.122216
1124.40	17.12	0.122417
1124.60	17.19	0.122617
1124.80	17.26	0.122816
1125.00	17.32	0.123015
1125.20	17.39	0.123214
1125.40	17.46	0.123413
1125.60	17.52	0.123613
1125.80	17.59	0.123813
1126.00	17.66	0.124013
1126.20	17.72	0.124214
1126.40	17.79	0.124416
1126.60	17.86	0.124619
1126.80	17.93	0.124823
1127.00	18.00	0.125028
1127.20	18.07	0.125235
1127.40	18.13	0.125443
1127.60	18.20	0.125653
1127.80	18.28	0.125864
1128.00	18.35	0.126077
1128.20	18.42	0.126292
1128.40	18.49	0.126508
1128.60	18.56	0.126727
1128.80	18.64	0.126947
1129.00	18.71	0.127170
1129.20	18.79	0.127395
1129.40	18.86	0.127623
1129.60	18.94	0.127852
1129.80	19.02	0.128084
1130.00	19.09	0.128319
1130.20	19.17	0.128556
1130.40	19.25	0.128795
1130.60	19.33	0.129038
1130.80	19.42	0.129283
1131.00	19.50	0.129531
1131.20	19.58	0.129781
1131.40	19.67	0.130035
1131.60	19.75	0.130292
1131.80	19.84	0.130552
1132.00	19.93	0.130815
1132.20	20.02	0.131082
1132.40	20.11	0.131351
1132.60	20.20	0.131624

1132.80	20.29	0.131901
1133.00	20.38	0.132181
1133.20	20.48	0.132465
1133.40	20.57	0.132753
1133.60	20.67	0.133045
1133.80	20.77	0.133340
1134.00	20.87	0.133640
1134.20	20.97	0.133943
1134.40	21.07	0.134251
1134.60	21.18	0.134563
1134.80	21.28	0.134876
1135.00	21.39	0.135189
1135.20	21.49	0.135504
1135.40	21.60	0.135820
1135.60	21.70	0.136138
1135.80	21.81	0.136458
1136.00	21.92	0.136781
1136.20	22.03	0.137106
1136.40	22.14	0.137435
1136.60	22.25	0.137766
1136.80	22.36	0.138101
1137.00	22.47	0.138440
1137.20	22.59	0.138782
1137.40	22.70	0.139129
1137.60	22.82	0.139480
1137.80	22.94	0.139835
1138.00	23.04	0.140199
1138.20	23.14	0.140574
1138.40	23.24	0.140962
1138.60	23.34	0.141361
1138.80	23.45	0.141771
1139.00	23.56	0.142193
1139.20	23.67	0.142627
1139.40	23.78	0.143072
1139.60	23.90	0.143528
1139.80	24.02	0.143995
1140.00	24.14	0.144475
1140.20	24.27	0.144965
1140.40	24.40	0.145468
1140.60	24.53	0.145982
1140.80	24.67	0.146508
1141.00	24.80	0.147046
1141.20	24.95	0.147596
1141.40	25.09	0.148159
1141.60	25.24	0.148735
1141.80	25.39	0.149323
1142.00	25.54	0.149925
1142.20	25.70	0.150541
1142.40	25.87	0.151171
1142.60	26.03	0.151815
1142.80	26.20	0.152474
1143.00	26.37	0.153148
1143.20	26.55	0.153838
1143.40	26.73	0.154545
1143.60	26.92	0.155268
1143.80	27.11	0.156008
1144.00	27.31	0.156767
1144.20	27.51	0.157544
1144.40	27.71	0.158340
1144.60	27.92	0.159157
1144.80	28.14	0.159995
1145.00	28.33	0.160862
1145.20	28.52	0.161761
1145.40	28.72	0.162695
1145.60	28.92	0.163663
1145.80	29.13	0.164666

1146.00	29.35	0.165706
1146.20	29.58	0.166784
1146.40	29.82	0.167900
1146.60	30.06	0.169057
1146.80	30.32	0.170257
1147.00	30.58	0.171500
1147.20	30.85	0.172789
1147.40	31.13	0.174127
1147.60	31.43	0.175515
1147.80	31.73	0.176957
1148.00	32.05	0.178456
1148.20	32.38	0.180015
1148.40	32.70	0.181644
1148.60	33.03	0.183346
1148.80	33.36	0.185116
1149.00	33.72	0.186960
1149.20	34.08	0.188883
1149.40	34.47	0.190893
1149.60	34.87	0.192997
1149.80	35.29	0.195204
1150.00	35.73	0.197525
1150.20	36.20	0.199972
1150.40	36.65	0.202572
1150.60	37.11	0.205351
1150.80	37.60	0.208334
1151.00	38.13	0.211554
1151.20	38.70	0.215056
1151.40	39.33	0.218905
1151.60	40.01	0.223213
1151.80	40.75	0.228205
1152.00	41.71	0.235153
1152.20	42.88	0.242821
1152.40	44.04	0.250525
1152.60	45.19	0.258145
1152.80	46.30	0.265628
1153.00	47.34	0.272950
1153.20	48.36	0.280088
1153.40	49.30	0.287034
1153.60	50.19	0.293784
1153.80	51.06	0.300329
1154.00	51.88	0.306668
1154.20	52.66	0.312797
1154.40	53.41	0.318713
1154.60	54.13	0.324416
1154.80	54.80	0.329907
1155.00	55.45	0.335186
1155.20	56.07	0.340251
1155.40	56.65	0.345105
1155.60	57.20	0.349750
1155.80	57.72	0.354184
1156.00	58.22	0.358408
1156.20	58.69	0.362423
1156.40	59.12	0.366232
1156.60	59.53	0.369835
1156.80	59.91	0.373231
1157.00	60.28	0.376421
1157.20	60.62	0.379404
1157.40	60.93	0.382178
1157.60	61.23	0.384745
1157.80	61.50	0.387103
1158.00	61.75	0.389252
1158.20	61.97	0.391192
1158.40	62.17	0.392920
1158.60	62.35	0.394436
1158.80	62.51	0.395738
1159.00	62.64	0.396825

1159.20	62.75	0.397695
1159.40	62.83	0.398345
1159.60	62.89	0.398773
1159.80	62.92	0.398974
1160.00	62.93	0.398958
1160.20	62.92	0.398802
1160.40	62.87	0.398393
1160.60	62.80	0.397725
1160.80	62.69	0.396792
1161.00	62.56	0.395583
1161.20	62.40	0.394089
1161.40	62.20	0.392296
1161.60	61.97	0.390187
1161.80	61.70	0.387742
1162.00	61.39	0.384934
1162.20	61.04	0.381725
1162.40	60.63	0.378065
1162.60	60.17	0.373873
1162.80	59.63	0.369000
1163.00	58.94	0.362683
1163.20	58.06	0.354878
1163.40	57.10	0.346553
1163.60	56.12	0.338121
1163.80	55.11	0.329694
1164.00	54.10	0.321333
1164.20	53.06	0.313070
1164.40	52.04	0.304927
1164.60	51.01	0.296905
1164.80	49.98	0.289016
1165.00	48.96	0.281269
1165.20	47.90	0.273686
1165.40	46.85	0.266274
1165.60	45.81	0.259039
1165.80	44.73	0.251996
1166.00	43.69	0.245144
1166.20	42.66	0.238486
1166.40	41.61	0.232032
1166.60	40.59	0.225776
1166.80	39.59	0.219719
1167.00	38.58	0.213868
1167.20	37.60	0.208216
1167.40	36.65	0.202758
1167.60	35.64	0.197513
1167.80	34.64	0.192484
1168.00	33.68	0.187661
1168.20	32.76	0.183036
1168.40	31.81	0.178618
1168.60	30.88	0.174403
1168.80	30.00	0.170382
1169.00	29.15	0.166546
1169.20	28.34	0.162886
1169.40	27.45	0.159427
1169.60	26.57	0.156165
1169.80	25.75	0.153088
1170.00	24.97	0.150185
1170.20	24.23	0.147445
1170.40	23.54	0.144857
1170.60	22.85	0.142420
1170.80	22.07	0.140164
1171.00	21.34	0.138074
1171.20	20.66	0.136135
1171.40	20.04	0.134336
1171.60	19.45	0.132664
1171.80	18.91	0.131110
1172.00	18.41	0.129663
1172.20	17.94	0.128316

1172.40	17.50	0.127059
1172.60	17.10	0.125886
1172.80	16.72	0.124790
1173.00	16.36	0.123764
1173.20	16.13	0.122777
1173.40	15.92	0.121819
1173.60	15.72	0.120891
1173.80	15.53	0.119991
1174.00	15.35	0.119118
1174.20	15.16	0.118271
1174.40	14.99	0.117448
1174.60	14.82	0.116650
1174.80	14.65	0.115875
1175.00	14.49	0.115122
1175.20	14.34	0.114391
1175.40	14.19	0.113680
1175.60	14.04	0.112989
1175.80	13.89	0.112318
1176.00	13.76	0.111664
1176.20	13.62	0.111029
1176.40	13.49	0.110411
1176.60	13.36	0.109809
1176.80	13.23	0.109223
1177.00	13.11	0.108652
1177.20	12.99	0.108097
1177.40	12.88	0.107555
1177.60	12.77	0.107027
1177.80	12.66	0.106513
1178.00	12.55	0.106011
1178.20	12.45	0.105521
1178.40	12.34	0.105043
1178.60	12.25	0.104577
1178.80	12.15	0.104122
1179.00	12.06	0.103677
1179.20	11.97	0.103240
1179.40	11.89	0.102812
1179.60	11.80	0.102392
1179.80	11.72	0.101979
1180.00	11.64	0.101575
1180.20	11.56	0.101178
1180.40	11.49	0.100788
1180.60	11.41	0.100406
1180.80	11.34	0.100031
1181.00	11.27	0.099662
1181.20	11.19	0.099300
1181.40	11.12	0.098944
1181.60	11.06	0.098595
1181.80	10.99	0.098252
1182.00	10.92	0.097915
1182.20	10.86	0.097583
1182.40	10.79	0.097258
1182.60	10.73	0.096936
1182.80	10.67	0.096618
1183.00	10.61	0.096304
1183.20	10.54	0.095993
1183.40	10.48	0.095685
1183.60	10.42	0.095381
1183.80	10.37	0.095081
1184.00	10.31	0.094784
1184.20	10.25	0.094490
1184.40	10.19	0.094200
1184.60	10.14	0.093913
1184.80	10.08	0.093629
1185.00	10.03	0.093349
1185.20	9.97	0.093072
1185.40	9.92	0.092799

1185.60	9.86	0.092528
1185.80	9.81	0.092261
1186.00	9.76	0.091997
1186.20	9.71	0.091736
1186.40	9.66	0.091479
1186.60	9.61	0.091224
1186.80	9.56	0.090973
1187.00	9.51	0.090724
1187.20	9.46	0.090479
1187.40	9.41	0.090236
1187.60	9.37	0.089996
1187.80	9.32	0.089760
1188.00	9.27	0.089525
1188.20	9.23	0.089294
1188.40	9.18	0.089066
1188.60	9.14	0.088840
1188.80	9.10	0.088617
1189.00	9.05	0.088396
1189.20	9.01	0.088179
1189.40	8.97	0.087963
1189.60	8.93	0.087750
1189.80	8.88	0.087540
1190.00	8.84	0.087332
1190.20	8.80	0.087127
1190.40	8.76	0.086924
1190.60	8.72	0.086723
1190.80	8.68	0.086524
1191.00	8.65	0.086328
1191.20	8.61	0.086134
1191.40	8.57	0.085943
1191.60	8.53	0.085753
1191.80	8.50	0.085566
1192.00	8.46	0.085380
1192.20	8.42	0.085197
1192.40	8.39	0.085016
1192.60	8.35	0.084836
1192.80	8.32	0.084659
1193.00	8.28	0.084484
1193.20	8.25	0.084310
1193.40	8.22	0.084139
1193.60	8.19	0.083969
1193.80	8.16	0.083799
1194.00	8.13	0.083630
1194.20	8.10	0.083462
1194.40	8.07	0.083295
1194.60	8.04	0.083128
1194.80	8.01	0.082963
1195.00	7.99	0.082798
1195.20	7.96	0.082635
1195.40	7.93	0.082472
1195.60	7.90	0.082310
1195.80	7.87	0.082149
1196.00	7.85	0.081989
1196.20	7.82	0.081830
1196.40	7.79	0.081672
1196.60	7.77	0.081515
1196.80	7.74	0.081359
1197.00	7.71	0.081204
1197.20	7.69	0.081050
1197.40	7.66	0.080897
1197.60	7.64	0.080746
1197.80	7.61	0.080595
1198.00	7.58	0.080445
1198.20	7.56	0.080296
1198.40	7.53	0.080149
1198.60	7.51	0.080002

1198.80	7.48	0.079856
1199.00	7.46	0.079712
1199.20	7.43	0.079568
1199.40	7.41	0.079426
1199.60	7.39	0.079285
1199.80	7.36	0.079144
1200.00	7.34	0.079005
1200.20	7.31	0.078867
1200.40	7.29	0.078729
1200.60	7.27	0.078593
1200.80	7.24	0.078458
1201.00	7.22	0.078324
1201.20	7.20	0.078190
1201.40	7.18	0.078058
1201.60	7.15	0.077927
1201.80	7.13	0.077797
1202.00	7.11	0.077667
1202.20	7.09	0.077539
1202.40	7.07	0.077412
1202.60	7.04	0.077285
1202.80	7.02	0.077160
1203.00	7.00	0.077035
1203.20	6.98	0.076912
1203.40	6.96	0.076789
1203.60	6.94	0.076667
1203.80	6.92	0.076547
1204.00	6.90	0.076427
1204.20	6.88	0.076308
1204.40	6.86	0.076190
1204.60	6.84	0.076073
1204.80	6.82	0.075956
1205.00	6.80	0.075841
1205.20	6.78	0.075726
1205.40	6.76	0.075612
1205.60	6.74	0.075500
1205.80	6.72	0.075388
1206.00	6.70	0.075276
1206.20	6.68	0.075166
1206.40	6.66	0.075056
1206.60	6.64	0.074947
1206.80	6.63	0.074839
1207.00	6.61	0.074732
1207.20	6.59	0.074626
1207.40	6.57	0.074520
1207.60	6.55	0.074415
1207.80	6.54	0.074311
1208.00	6.52	0.074208
1208.20	6.50	0.074105
1208.40	6.48	0.074003
1208.60	6.47	0.073902
1208.80	6.45	0.073802
1209.00	6.43	0.073702
1209.20	6.42	0.073603
1209.40	6.40	0.073505
1209.60	6.38	0.073407
1209.80	6.37	0.073310
1210.00	6.35	0.073214
1210.20	6.33	0.073118
1210.40	6.32	0.073023
1210.60	6.30	0.072929
1210.80	6.28	0.072835
1211.00	6.27	0.072742
1211.20	6.25	0.072650
1211.40	6.24	0.072558
1211.60	6.22	0.072467
1211.80	6.21	0.072377

1212.00	6.19	0.072287
1212.20	6.18	0.072198
1212.40	6.16	0.072109
1212.60	6.15	0.072021
1212.80	6.13	0.071934
1213.00	6.12	0.071847
1213.20	6.10	0.071761
1213.40	6.09	0.071675
1213.60	6.07	0.071590
1213.80	6.06	0.071505
1214.00	6.04	0.071421
1214.20	6.03	0.071338
1214.40	6.01	0.071255
1214.60	6.00	0.071172
1214.80	5.99	0.071090
1215.00	5.97	0.071009
1215.20	5.96	0.070928
1215.40	5.94	0.070848
1215.60	5.93	0.070768
1215.80	5.92	0.070689
1216.00	5.90	0.070610
1216.20	5.89	0.070532
1216.40	5.88	0.070454
1216.60	5.86	0.070377
1216.80	5.85	0.070300
1217.00	5.84	0.070223
1217.20	5.83	0.070148
1217.40	5.81	0.070072
1217.60	5.80	0.069997
1217.80	5.79	0.069923
1218.00	5.77	0.069849
1218.20	5.76	0.069775
1218.40	5.75	0.069702
1218.60	5.74	0.069629
1218.80	5.72	0.069557
1219.00	5.71	0.069485
1219.20	5.70	0.069414
1219.40	5.69	0.069343
1219.60	5.68	0.069272
1219.80	5.66	0.069202
1220.00	5.65	0.069132
1220.20	5.64	0.069063
1220.40	5.63	0.068994
1220.60	5.62	0.068926
1220.80	5.61	0.068857
1221.00	5.59	0.068790
1221.20	5.58	0.068722
1221.40	5.57	0.068655
1221.60	5.56	0.068589
1221.80	5.55	0.068523
1222.00	5.54	0.068457
1222.20	5.53	0.068391
1222.40	5.51	0.068326
1222.60	5.50	0.068262
1222.80	5.49	0.068197
1223.00	5.48	0.068133
1223.20	5.47	0.068070
1223.40	5.46	0.068006
1223.60	5.45	0.067944
1223.80	5.44	0.067881
1224.00	5.43	0.067819
1224.20	5.42	0.067757
1224.40	5.41	0.067695
1224.60	5.40	0.067634
1224.80	5.39	0.067573
1225.00	5.38	0.067513

1225.20	5.37	0.067452
1225.40	5.35	0.067392
1225.60	5.34	0.067333
1225.80	5.33	0.067274
1226.00	5.32	0.067215
1226.20	5.31	0.067156
1226.40	5.30	0.067098
1226.60	5.29	0.067040
1226.80	5.28	0.066982
1227.00	5.28	0.066924
1227.20	5.27	0.066867
1227.40	5.26	0.066810
1227.60	5.25	0.066754
1227.80	5.24	0.066698
1228.00	5.23	0.066642
1228.20	5.22	0.066586
1228.40	5.21	0.066531
1228.60	5.20	0.066476
1228.80	5.19	0.066421
1229.00	5.18	0.066366
1229.20	5.17	0.066312
1229.40	5.16	0.066258
1229.60	5.15	0.066204
1229.80	5.14	0.066151
1230.00	5.13	0.066098
1230.20	5.13	0.066045
1230.40	5.12	0.065992
1230.60	5.11	0.065940
1230.80	5.10	0.065887
1231.00	5.09	0.065836
1231.20	5.08	0.065784
1231.40	5.07	0.065733
1231.60	5.06	0.065681
1231.80	5.05	0.065630
1232.00	5.05	0.065580
1232.20	5.04	0.065529
1232.40	5.03	0.065479
1232.60	5.02	0.065429
1232.80	5.01	0.065380
1233.00	5.00	0.065330
1233.20	4.99	0.065281
1233.40	4.99	0.065232
1233.60	4.98	0.065183
1233.80	4.97	0.065135
1234.00	4.96	0.065086
1234.20	4.95	0.065038
1234.40	4.95	0.064991
1234.60	4.94	0.064943
1234.80	4.93	0.064896
1235.00	4.92	0.064848
1235.20	4.91	0.064801
1235.40	4.90	0.064755
1235.60	4.90	0.064708
1235.80	4.89	0.064662
1236.00	4.88	0.064616
1236.20	4.87	0.064570
1236.40	4.87	0.064524
1236.60	4.86	0.064479
1236.80	4.85	0.064433
1237.00	4.84	0.064388
1237.20	4.83	0.064343
1237.40	4.83	0.064299
1237.60	4.82	0.064254
1237.80	4.81	0.064210
1238.00	4.80	0.064164
1238.20	4.80	0.064119

1238.40	4.79	0.064073
1238.60	4.78	0.064026
1238.80	4.78	0.063978
1239.00	4.77	0.063930
1239.20	4.77	0.063881
1239.40	4.76	0.063831
1239.60	4.75	0.063781
1239.80	4.75	0.063730
1240.00	4.74	0.063679
1240.20	4.73	0.063628
1240.40	4.72	0.063576
1240.60	4.72	0.063524
1240.80	4.71	0.063471
1241.00	4.70	0.063418
1241.20	4.70	0.063365
1241.40	4.69	0.063311
1241.60	4.68	0.063257
1241.80	4.67	0.063203
1242.00	4.67	0.063148
1242.20	4.66	0.063094
1242.40	4.65	0.063039
1242.60	4.64	0.062984
1242.80	4.64	0.062928
1243.00	4.63	0.062873
1243.20	4.62	0.062817
1243.40	4.61	0.062762
1243.60	4.61	0.062706
1243.80	4.60	0.062650
1244.00	4.59	0.062594
1244.20	4.58	0.062538
1244.40	4.58	0.062482
1244.60	4.57	0.062426
1244.80	4.56	0.062369
1245.00	4.55	0.062313
1245.20	4.55	0.062257
1245.40	4.54	0.062201
1245.60	4.53	0.062144
1245.80	4.52	0.062088
1246.00	4.52	0.062032
1246.20	4.51	0.061975
1246.40	4.50	0.061919
1246.60	4.49	0.061863
1246.80	4.49	0.061807
1247.00	4.48	0.061751
1247.20	4.47	0.061695
1247.40	4.46	0.061639
1247.60	4.46	0.061583
1247.80	4.45	0.061527
1248.00	4.44	0.061471
1248.20	4.43	0.061416
1248.40	4.43	0.061360
1248.60	4.42	0.061305
1248.80	4.41	0.061249
1249.00	4.40	0.061194
1249.20	4.40	0.061139
1249.40	4.39	0.061084
1249.60	4.38	0.061029
1249.80	4.37	0.060974
1250.00	4.37	0.060919
1250.20	4.36	0.060865
1250.40	4.35	0.060810
1250.60	4.34	0.060756
1250.80	4.34	0.060702
1251.00	4.33	0.060647
1251.20	4.32	0.060594
1251.40	4.31	0.060540

1251.60	4.31	0.060486
1251.80	4.30	0.060433
1252.00	4.29	0.060379
1252.20	4.29	0.060326
1252.40	4.28	0.060273
1252.60	4.27	0.060220
1252.80	4.26	0.060167
1253.00	4.26	0.060115
1253.20	4.25	0.060062
1253.40	4.24	0.060010
1253.60	4.24	0.059958
1253.80	4.23	0.059906
1254.00	4.22	0.059854
1254.20	4.21	0.059802
1254.40	4.21	0.059751
1254.60	4.20	0.059699
1254.80	4.19	0.059648
1255.00	4.19	0.059597
1255.20	4.18	0.059546
1255.40	4.17	0.059495
1255.60	4.17	0.059445
1255.80	4.16	0.059394
1256.00	4.15	0.059344
1256.20	4.15	0.059294
1256.40	4.14	0.059244
1256.60	4.13	0.059195
1256.80	4.13	0.059145
1257.00	4.12	0.059096
1257.20	4.11	0.059046
1257.40	4.11	0.058997
1257.60	4.10	0.058948
1257.80	4.09	0.058900
1258.00	4.09	0.058851
1258.20	4.08	0.058803
1258.40	4.07	0.058754
1258.60	4.07	0.058706
1258.80	4.06	0.058658
1259.00	4.05	0.058611
1259.20	4.05	0.058563
1259.40	4.04	0.058516
1259.60	4.03	0.058468
1259.80	4.03	0.058421
1260.00	4.02	0.058374
1260.20	4.01	0.058328
1260.40	4.01	0.058281
1260.60	4.00	0.058234
1260.80	4.00	0.058188
1261.00	3.99	0.058142
1261.20	3.98	0.058096
1261.40	3.98	0.058050
1261.60	3.97	0.058005
1261.80	3.96	0.057959
1262.00	3.96	0.057914
1262.20	3.95	0.057869
1262.40	3.95	0.057823
1262.60	3.94	0.057779
1262.80	3.93	0.057734
1263.00	3.93	0.057689
1263.20	3.92	0.057645
1263.40	3.92	0.057601
1263.60	3.91	0.057557
1263.80	3.90	0.057513
1264.00	3.90	0.057469
1264.20	3.89	0.057425
1264.40	3.89	0.057382
1264.60	3.88	0.057338

1264.80	3.87	0.057295
1265.00	3.87	0.057252
1265.20	3.86	0.057209
1265.40	3.86	0.057167
1265.60	3.85	0.057124
1265.80	3.85	0.057081
1266.00	3.84	0.057039
1266.20	3.83	0.056997
1266.40	3.83	0.056955
1266.60	3.82	0.056913
1266.80	3.82	0.056871
1267.00	3.81	0.056830
1267.20	3.81	0.056788
1267.40	3.80	0.056747
1267.60	3.80	0.056706
1267.80	3.79	0.056665
1268.00	3.78	0.056624
1268.20	3.78	0.056583
1268.40	3.77	0.056543
1268.60	3.77	0.056502
1268.80	3.76	0.056462
1269.00	3.76	0.056422
1269.20	3.75	0.056382
1269.40	3.75	0.056342
1269.60	3.74	0.056302
1269.80	3.74	0.056263
1270.00	3.73	0.056223
1270.20	3.72	0.056184
1270.40	3.72	0.056144
1270.60	3.71	0.056105
1270.80	3.71	0.056066
1271.00	3.70	0.056028
1271.20	3.70	0.055989
1271.40	3.69	0.055950
1271.60	3.69	0.055912
1271.80	3.68	0.055874
1272.00	3.68	0.055835
1272.20	3.67	0.055797
1272.40	3.67	0.055759
1272.60	3.66	0.055722
1272.80	3.66	0.055684
1273.00	3.65	0.055646
1273.20	3.65	0.055609
1273.40	3.64	0.055572
1273.60	3.64	0.055534
1273.80	3.63	0.055497
1274.00	3.63	0.055460
1274.20	3.62	0.055423
1274.40	3.62	0.055387
1274.60	3.61	0.055350
1274.80	3.61	0.055314
1275.00	3.60	0.055277
1275.20	3.60	0.055241
1275.40	3.59	0.055205
1275.60	3.59	0.055169
1275.80	3.58	0.055133
1276.00	3.58	0.055097
1276.20	3.57	0.055062
1276.40	3.57	0.055026
1276.60	3.56	0.054991
1276.80	3.56	0.054956
1277.00	3.55	0.054920
1277.20	3.55	0.054885
1277.40	3.54	0.054850
1277.60	3.54	0.054816
1277.80	3.53	0.054781

1278.00	3.53	0.054746
1278.20	3.53	0.054712
1278.40	3.52	0.054677
1278.60	3.52	0.054643
1278.80	3.51	0.054609
1279.00	3.51	0.054575
1279.20	3.50	0.054541
1279.40	3.50	0.054507
1279.60	3.49	0.054473
1279.80	3.49	0.054439
1280.00	3.48	0.054406
1280.20	3.48	0.054372
1280.40	3.47	0.054339
1280.60	3.47	0.054306
1280.80	3.47	0.054273
1281.00	3.46	0.054240
1281.20	3.46	0.054207
1281.40	3.45	0.054174
1281.60	3.45	0.054141
1281.80	3.44	0.054109
1282.00	3.44	0.054076
1282.20	3.43	0.054044
1282.40	3.43	0.054011
1282.60	3.43	0.053979
1282.80	3.42	0.053947
1283.00	3.42	0.053915
1283.20	3.41	0.053883
1283.40	3.41	0.053851
1283.60	3.40	0.053819
1283.80	3.40	0.053788
1284.00	3.40	0.053756
1284.20	3.39	0.053725
1284.40	3.39	0.053693
1284.60	3.38	0.053662
1284.80	3.38	0.053631
1285.00	3.37	0.053600
1285.20	3.37	0.053569
1285.40	3.37	0.053538
1285.60	3.36	0.053507
1285.80	3.36	0.053477
1286.00	3.35	0.053446
1286.20	3.35	0.053415
1286.40	3.35	0.053385
1286.60	3.34	0.053355
1286.80	3.34	0.053324
1287.00	3.33	0.053294
1287.20	3.33	0.053264
1287.40	3.33	0.053234
1287.60	3.32	0.053204
1287.80	3.32	0.053175
1288.00	3.31	0.053145
1288.20	3.31	0.053115
1288.40	3.31	0.053086
1288.60	3.30	0.053056
1288.80	3.30	0.053027
1289.00	3.29	0.052998
1289.20	3.29	0.052968
1289.40	3.29	0.052939
1289.60	3.28	0.052910
1289.80	3.28	0.052881
1290.00	3.27	0.052852
1290.20	3.27	0.052824
1290.40	3.27	0.052795
1290.60	3.26	0.052766
1290.80	3.26	0.052738
1291.00	3.25	0.052709

1291.20	3.25	0.052681
1291.40	3.25	0.052653
1291.60	3.24	0.052625
1291.80	3.24	0.052596
1292.00	3.24	0.052568
1292.20	3.23	0.052540
1292.40	3.23	0.052513
1292.60	3.22	0.052485
1292.80	3.22	0.052457
1293.00	3.22	0.052429
1293.20	3.21	0.052402
1293.40	3.21	0.052374
1293.60	3.21	0.052347
1293.80	3.20	0.052320
1294.00	3.20	0.052292
1294.20	3.19	0.052265
1294.40	3.19	0.052238
1294.60	3.19	0.052211
1294.80	3.18	0.052184
1295.00	3.18	0.052157
1295.20	3.18	0.052130
1295.40	3.17	0.052104
1295.60	3.17	0.052077
1295.80	3.17	0.052050
1296.00	3.16	0.052024
1296.20	3.16	0.051997
1296.40	3.15	0.051971
1296.60	3.15	0.051945
1296.80	3.15	0.051918
1297.00	3.14	0.051892
1297.20	3.14	0.051866
1297.40	3.14	0.051840
1297.60	3.13	0.051814
1297.80	3.13	0.051788
1298.00	3.13	0.051763
1298.20	3.12	0.051737
1298.40	3.12	0.051711
1298.60	3.12	0.051686
1298.80	3.11	0.051660
1299.00	3.11	0.051635
1299.20	3.11	0.051609
1299.40	3.10	0.051584
1299.60	3.10	0.051559
1299.80	3.10	0.051533
1300.00	3.09	0.051508
1300.20	3.09	0.051483
1300.40	3.08	0.051458
1300.60	3.08	0.051433
1300.80	3.08	0.051409
1301.00	3.07	0.051384
1301.20	3.07	0.051359
1301.40	3.07	0.051334
1301.60	3.06	0.051310
1301.80	3.06	0.051285
1302.00	3.06	0.051261
1302.20	3.05	0.051236
1302.40	3.05	0.051212
1302.60	3.05	0.051188
1302.80	3.05	0.051164
1303.00	3.04	0.051139
1303.20	3.04	0.051115
1303.40	3.04	0.051091
1303.60	3.03	0.051067
1303.80	3.03	0.051044
1304.00	3.03	0.051020
1304.20	3.02	0.050996

1304.40	3.02	0.050972
1304.60	3.02	0.050949
1304.80	3.01	0.050925
1305.00	3.01	0.050901
1305.20	3.01	0.050878
1305.40	3.00	0.050855
1305.60	3.00	0.050831
1305.80	3.00	0.050808
1306.00	2.99	0.050785
1306.20	2.99	0.050762
1306.40	2.99	0.050739
1306.60	2.98	0.050715
1306.80	2.98	0.050692
1307.00	2.98	0.050670
1307.20	2.98	0.050647
1307.40	2.97	0.050624
1307.60	2.97	0.050601
1307.80	2.97	0.050578
1308.00	2.96	0.050556
1308.20	2.96	0.050533
1308.40	2.96	0.050511
1308.60	2.95	0.050488
1308.80	2.95	0.050466
1309.00	2.95	0.050443
1309.20	2.94	0.050421
1309.40	2.94	0.050399
1309.60	2.94	0.050377
1309.80	2.94	0.050355
1310.00	2.93	0.050332
1310.20	2.93	0.050310
1310.40	2.93	0.050288
1310.60	2.92	0.050267
1310.80	2.92	0.050245
1311.00	2.92	0.050223
1311.20	2.91	0.050201
1311.40	2.91	0.050179
1311.60	2.91	0.050158
1311.80	2.91	0.050136
1312.00	2.90	0.050115
1312.20	2.90	0.050093
1312.40	2.90	0.050072
1312.60	2.89	0.050050
1312.80	2.89	0.050029
1313.00	2.89	0.050008
1313.20	2.89	0.049986
1313.40	2.88	0.049965
1313.60	2.88	0.049944
1313.80	2.88	0.049923
1314.00	2.87	0.049902
1314.20	2.87	0.049881
1314.40	2.87	0.049860
1314.60	2.87	0.049839
1314.80	2.86	0.049818
1315.00	2.86	0.049798
1315.20	2.86	0.049777
1315.40	2.85	0.049756
1315.60	2.85	0.049736
1315.80	2.85	0.049715
1316.00	2.85	0.049695
1316.20	2.84	0.049674
1316.40	2.84	0.049654
1316.60	2.84	0.049633
1316.80	2.84	0.049613
1317.00	2.83	0.049593
1317.20	2.83	0.049572
1317.40	2.83	0.049552

1317.60	2.82	0.049532
1317.80	2.82	0.049512
1318.00	2.82	0.049492
1318.20	2.82	0.049472
1318.40	2.81	0.049452
1318.60	2.81	0.049432
1318.80	2.81	0.049412
1319.00	2.81	0.049392
1319.20	2.80	0.049373
1319.40	2.80	0.049353
1319.60	2.80	0.049333
1319.80	2.79	0.049314
1320.00	2.79	0.049294
1320.20	2.79	0.049274
1320.40	2.79	0.049255
1320.60	2.78	0.049236
1320.80	2.78	0.049216
1321.00	2.78	0.049197
1321.20	2.78	0.049177
1321.40	2.77	0.049158
1321.60	2.77	0.049139
1321.80	2.77	0.049120
1322.00	2.77	0.049101
1322.20	2.76	0.049082
1322.40	2.76	0.049063
1322.60	2.76	0.049044
1322.80	2.76	0.049025
1323.00	2.75	0.049006
1323.20	2.75	0.048987
1323.40	2.75	0.048968
1323.60	2.75	0.048949
1323.80	2.74	0.048930
1324.00	2.74	0.048912
1324.20	2.74	0.048893
1324.40	2.74	0.048874
1324.60	2.73	0.048856
1324.80	2.73	0.048837
1325.00	2.73	0.048819
1325.20	2.73	0.048800
1325.40	2.72	0.048782
1325.60	2.72	0.048764
1325.80	2.72	0.048745
1326.00	2.72	0.048727
1326.20	2.71	0.048709
1326.40	2.71	0.048690
1326.60	2.71	0.048672
1326.80	2.71	0.048654
1327.00	2.70	0.048636
1327.20	2.70	0.048618
1327.40	2.70	0.048600
1327.60	2.70	0.048582
1327.80	2.69	0.048564
1328.00	2.69	0.048546
1328.20	2.69	0.048528
1328.40	2.69	0.048511
1328.60	2.68	0.048493
1328.80	2.68	0.048475
1329.00	2.68	0.048457
1329.20	2.68	0.048440
1329.40	2.67	0.048422
1329.60	2.67	0.048405
1329.80	2.67	0.048387
1330.00	2.67	0.048370
1330.20	2.66	0.048352
1330.40	2.66	0.048335
1330.60	2.66	0.048317

1330.80	2.66	0.048300
1331.00	2.66	0.048283
1331.20	2.65	0.048265
1331.40	2.65	0.048248
1331.60	2.65	0.048231
1331.80	2.65	0.048214
1332.00	2.64	0.048197
1332.20	2.64	0.048180
1332.40	2.64	0.048162
1332.60	2.64	0.048145
1332.80	2.63	0.048128
1333.00	2.63	0.048112
1333.20	2.63	0.048095
1333.40	2.63	0.048078
1333.60	2.63	0.048061
1333.80	2.62	0.048044
1334.00	2.62	0.048027
1334.20	2.62	0.048011
1334.40	2.62	0.047994
1334.60	2.61	0.047977
1334.80	2.61	0.047961
1335.00	2.61	0.047944
1335.20	2.61	0.047927
1335.40	2.60	0.047911
1335.60	2.60	0.047895
1335.80	2.60	0.047878
1336.00	2.60	0.047862
1336.20	2.60	0.047845
1336.40	2.59	0.047829
1336.60	2.59	0.047813
1336.80	2.59	0.047796
1337.00	2.59	0.047780
1337.20	2.59	0.047764
1337.40	2.58	0.047748
1337.60	2.58	0.047732
1337.80	2.58	0.047715
1338.00	2.58	0.047699
1338.20	2.57	0.047683
1338.40	2.57	0.047667
1338.60	2.57	0.047651
1338.80	2.57	0.047635
1339.00	2.57	0.047619
1339.20	2.56	0.047604
1339.40	2.56	0.047588
1339.60	2.56	0.047572
1339.80	2.56	0.047556
1340.00	2.55	0.047540
1340.20	2.55	0.047525
1340.40	2.55	0.047509
1340.60	2.55	0.047493
1340.80	2.55	0.047478
1341.00	2.54	0.047462
1341.20	2.54	0.047447
1341.40	2.54	0.047431
1341.60	2.54	0.047416
1341.80	2.54	0.047400
1342.00	2.53	0.047385
1342.20	2.53	0.047369
1342.40	2.53	0.047354
1342.60	2.53	0.047339
1342.80	2.53	0.047323
1343.00	2.52	0.047308
1343.20	2.52	0.047293
1343.40	2.52	0.047278
1343.60	2.52	0.047262
1343.80	2.52	0.047247

1344.00	2.51	0.047232
1344.20	2.51	0.047217
1344.40	2.51	0.047202
1344.60	2.51	0.047187
1344.80	2.50	0.047172
1345.00	2.50	0.047157
1345.20	2.50	0.047142
1345.40	2.50	0.047127
1345.60	2.50	0.047112
1345.80	2.49	0.047097
1346.00	2.49	0.047083
1346.20	2.49	0.047068
1346.40	2.49	0.047053
1346.60	2.49	0.047038
1346.80	2.48	0.047024
1347.00	2.48	0.047009
1347.20	2.48	0.046994
1347.40	2.48	0.046980
1347.60	2.48	0.046965
1347.80	2.47	0.046951
1348.00	2.47	0.046936
1348.20	2.47	0.046921
1348.40	2.47	0.046907
1348.60	2.47	0.046893
1348.80	2.47	0.046878
1349.00	2.46	0.046864
1349.20	2.46	0.046849
1349.40	2.46	0.046835
1349.60	2.46	0.046821
1349.80	2.46	0.046806
1350.00	2.45	0.046792
1350.20	2.45	0.046778
1350.40	2.45	0.046764
1350.60	2.45	0.046750
1350.80	2.45	0.046735
1351.00	2.44	0.046721
1351.20	2.44	0.046707
1351.40	2.44	0.046693
1351.60	2.44	0.046679
1351.80	2.44	0.046665
1352.00	2.43	0.046651
1352.20	2.43	0.046637
1352.40	2.43	0.046623
1352.60	2.43	0.046609
1352.80	2.43	0.046595
1353.00	2.43	0.046582
1353.20	2.42	0.046568
1353.40	2.42	0.046554
1353.60	2.42	0.046540
1353.80	2.42	0.046527
1354.00	2.42	0.046513
1354.20	2.41	0.046499
1354.40	2.41	0.046485
1354.60	2.41	0.046472
1354.80	2.41	0.046458
1355.00	2.41	0.046445
1355.20	2.40	0.046431
1355.40	2.40	0.046417
1355.60	2.40	0.046404
1355.80	2.40	0.046391
1356.00	2.40	0.046377
1356.20	2.40	0.046364
1356.40	2.39	0.046350
1356.60	2.39	0.046337
1356.80	2.39	0.046323
1357.00	2.39	0.046310

1357.20	2.39	0.046297
1357.40	2.38	0.046284
1357.60	2.38	0.046270
1357.80	2.38	0.046257
1358.00	2.38	0.046244
1358.20	2.38	0.046231
1358.40	2.38	0.046217
1358.60	2.37	0.046204
1358.80	2.37	0.046191
1359.00	2.37	0.046178
1359.20	2.37	0.046165
1359.40	2.37	0.046152
1359.60	2.37	0.046139
1359.80	2.36	0.046126
1360.00	2.36	0.046113
1360.20	2.36	0.046100
1360.40	2.36	0.046087
1360.60	2.36	0.046074
1360.80	2.35	0.046061
1361.00	2.35	0.046049
1361.20	2.35	0.046036
1361.40	2.35	0.046023
1361.60	2.35	0.046010
1361.80	2.35	0.045997
1362.00	2.34	0.045985
1362.20	2.34	0.045972
1362.40	2.34	0.045959
1362.60	2.34	0.045947
1362.80	2.34	0.045934
1363.00	2.34	0.045921
1363.20	2.33	0.045909
1363.40	2.33	0.045896
1363.60	2.33	0.045884
1363.80	2.33	0.045871
1364.00	2.33	0.045859
1364.20	2.33	0.045846
1364.40	2.32	0.045834
1364.60	2.32	0.045821
1364.80	2.32	0.045809
1365.00	2.32	0.045796
1365.20	2.32	0.045784
1365.40	2.32	0.045772
1365.60	2.31	0.045759
1365.80	2.31	0.045747
1366.00	2.31	0.045735
1366.20	2.31	0.045723
1366.40	2.31	0.045710
1366.60	2.31	0.045698
1366.80	2.30	0.045686
1367.00	2.30	0.045674
1367.20	2.30	0.045662
1367.40	2.30	0.045649
1367.60	2.30	0.045637
1367.80	2.30	0.045625
1368.00	2.29	0.045613
1368.20	2.29	0.045601
1368.40	2.29	0.045589
1368.60	2.29	0.045577
1368.80	2.29	0.045565
1369.00	2.29	0.045553
1369.20	2.28	0.045541
1369.40	2.28	0.045529
1369.60	2.28	0.045517
1369.80	2.28	0.045505
1370.00	2.28	0.045494
1370.20	2.28	0.045482

1370.40	2.27	0.045470
1370.60	2.27	0.045458
1370.80	2.27	0.045446
1371.00	2.27	0.045435
1371.20	2.27	0.045423
1371.40	2.27	0.045411
1371.60	2.27	0.045399
1371.80	2.26	0.045388
1372.00	2.26	0.045376
1372.20	2.26	0.045365
1372.40	2.26	0.045353
1372.60	2.26	0.045341
1372.80	2.26	0.045330
1373.00	2.25	0.045318
1373.20	2.25	0.045307
1373.40	2.25	0.045295
1373.60	2.25	0.045284
1373.80	2.25	0.045272
1374.00	2.25	0.045261
1374.20	2.24	0.045249
1374.40	2.24	0.045238
1374.60	2.24	0.045226
1374.80	2.24	0.045215
1375.00	2.24	0.045204
1375.20	2.24	0.045192
1375.40	2.24	0.045181
1375.60	2.23	0.045170
1375.80	2.23	0.045158
1376.00	2.23	0.045147
1376.20	2.23	0.045136
1376.40	2.23	0.045125
1376.60	2.23	0.045114
1376.80	2.22	0.045102
1377.00	2.22	0.045091
1377.20	2.22	0.045080
1377.40	2.22	0.045069
1377.60	2.22	0.045058
1377.80	2.22	0.045047
1378.00	2.22	0.045036
1378.20	2.21	0.045025
1378.40	2.21	0.045014
1378.60	2.21	0.045003
1378.80	2.21	0.044992
1379.00	2.21	0.044981
1379.20	2.21	0.044970
1379.40	2.21	0.044959
1379.60	2.20	0.044948
1379.80	2.20	0.044937
1380.00	2.20	0.044926
1380.20	2.20	0.044915
1380.40	2.20	0.044904
1380.60	2.20	0.044893
1380.80	2.20	0.044883
1381.00	2.19	0.044872
1381.20	2.19	0.044861
1381.40	2.19	0.044850
1381.60	2.19	0.044839
1381.80	2.19	0.044829
1382.00	2.19	0.044818
1382.20	2.19	0.044807
1382.40	2.18	0.044797
1382.60	2.18	0.044786
1382.80	2.18	0.044775
1383.00	2.18	0.044765
1383.20	2.18	0.044754
1383.40	2.18	0.044744

1383.60	2.18	0.044733
1383.80	2.17	0.044722
1384.00	2.17	0.044712
1384.20	2.17	0.044701
1384.40	2.17	0.044691
1384.60	2.17	0.044680
1384.80	2.17	0.044670
1385.00	2.17	0.044659
1385.20	2.16	0.044649
1385.40	2.16	0.044639
1385.60	2.16	0.044628
1385.80	2.16	0.044618
1386.00	2.16	0.044607
1386.20	2.16	0.044597
1386.40	2.16	0.044587
1386.60	2.15	0.044576
1386.80	2.15	0.044566
1387.00	2.15	0.044556
1387.20	2.15	0.044546
1387.40	2.15	0.044535
1387.60	2.15	0.044525
1387.80	2.15	0.044515
1388.00	2.14	0.044505
1388.20	2.14	0.044494
1388.40	2.14	0.044484
1388.60	2.14	0.044474
1388.80	2.14	0.044464
1389.00	2.14	0.044454
1389.20	2.14	0.044444
1389.40	2.13	0.044434
1389.60	2.13	0.044424
1389.80	2.13	0.044413
1390.00	2.13	0.044403
1390.20	2.13	0.044393
1390.40	2.13	0.044383
1390.60	2.13	0.044373
1390.80	2.13	0.044363
1391.00	2.12	0.044353
1391.20	2.12	0.044344
1391.40	2.12	0.044334
1391.60	2.12	0.044324
1391.80	2.12	0.044314
1392.00	2.12	0.044304
1392.20	2.12	0.044294
1392.40	2.11	0.044284
1392.60	2.11	0.044274
1392.80	2.11	0.044265
1393.00	2.11	0.044255
1393.20	2.11	0.044245
1393.40	2.11	0.044235
1393.60	2.11	0.044225
1393.80	2.11	0.044216
1394.00	2.10	0.044206
1394.20	2.10	0.044196
1394.40	2.10	0.044187
1394.60	2.10	0.044177
1394.80	2.10	0.044167
1395.00	2.10	0.044157
1395.20	2.10	0.044147
1395.40	2.10	0.044137
1395.60	2.10	0.044126
1395.80	2.10	0.044116
1396.00	2.09	0.044105
1396.20	2.09	0.044095
1396.40	2.09	0.044084
1396.60	2.09	0.044073

1396.80	2.09	0.044062
1397.00	2.09	0.044051
1397.20	2.09	0.044040
1397.40	2.09	0.044029
1397.60	2.09	0.044017
1397.80	2.09	0.044006
1398.00	2.09	0.043994
1398.20	2.08	0.043983
1398.40	2.08	0.043971
1398.60	2.08	0.043959
1398.80	2.08	0.043948
1399.00	2.08	0.043936
1399.20	2.08	0.043924
1399.40	2.08	0.043912
1399.60	2.08	0.043900
1399.80	2.08	0.043888
1400.00	2.08	0.043875
1400.20	2.07	0.043863
1400.40	2.07	0.043851
1400.60	2.07	0.043838
1400.80	2.07	0.043826
1401.00	2.07	0.043813
1401.20	2.07	0.043801
1401.40	2.07	0.043788
1401.60	2.07	0.043775
1401.80	2.07	0.043763
1402.00	2.07	0.043750
1402.20	2.06	0.043737
1402.40	2.06	0.043724
1402.60	2.06	0.043711
1402.80	2.06	0.043698
1403.00	2.06	0.043686
1403.20	2.06	0.043673
1403.40	2.06	0.043659
1403.60	2.06	0.043646
1403.80	2.06	0.043633
1404.00	2.06	0.043620
1404.20	2.05	0.043607
1404.40	2.05	0.043594
1404.60	2.05	0.043581
1404.80	2.05	0.043567
1405.00	2.05	0.043554
1405.20	2.05	0.043541
1405.40	2.05	0.043527
1405.60	2.05	0.043514
1405.80	2.05	0.043501
1406.00	2.04	0.043487
1406.20	2.04	0.043474
1406.40	2.04	0.043460
1406.60	2.04	0.043447
1406.80	2.04	0.043433
1407.00	2.04	0.043420
1407.20	2.04	0.043406
1407.40	2.04	0.043393
1407.60	2.04	0.043379
1407.80	2.04	0.043366
1408.00	2.03	0.043352
1408.20	2.03	0.043338
1408.40	2.03	0.043325
1408.60	2.03	0.043311
1408.80	2.03	0.043298
1409.00	2.03	0.043284
1409.20	2.03	0.043270
1409.40	2.03	0.043257
1409.60	2.03	0.043243
1409.80	2.02	0.043229

1410.00	2.02	0.043216
1410.20	2.02	0.043202
1410.40	2.02	0.043188
1410.60	2.02	0.043174
1410.80	2.02	0.043161
1411.00	2.02	0.043147
1411.20	2.02	0.043133
1411.40	2.02	0.043120
1411.60	2.01	0.043106
1411.80	2.01	0.043092
1412.00	2.01	0.043078
1412.20	2.01	0.043065
1412.40	2.01	0.043051
1412.60	2.01	0.043037
1412.80	2.01	0.043024
1413.00	2.01	0.043010
1413.20	2.01	0.042996
1413.40	2.00	0.042982
1413.60	2.00	0.042969
1413.80	2.00	0.042955
1414.00	2.00	0.042941
1414.20	2.00	0.042927
1414.40	2.00	0.042914
1414.60	2.00	0.042900
1414.80	2.00	0.042886
1415.00	2.00	0.042873
1415.20	1.99	0.042859
1415.40	1.99	0.042845
1415.60	1.99	0.042832
1415.80	1.99	0.042818
1416.00	1.99	0.042804
1416.20	1.99	0.042791
1416.40	1.99	0.042777
1416.60	1.99	0.042763
1416.80	1.99	0.042750
1417.00	1.98	0.042736
1417.20	1.98	0.042722
1417.40	1.98	0.042709
1417.60	1.98	0.042695
1417.80	1.98	0.042681
1418.00	1.98	0.042668
1418.20	1.98	0.042654
1418.40	1.98	0.042641
1418.60	1.98	0.042627
1418.80	1.97	0.042614
1419.00	1.97	0.042600
1419.20	1.97	0.042586
1419.40	1.97	0.042573
1419.60	1.97	0.042559
1419.80	1.97	0.042546
1420.00	1.97	0.042532
1420.20	1.97	0.042519
1420.40	1.97	0.042505
1420.60	1.97	0.042492
1420.80	1.96	0.042478
1421.00	1.96	0.042465
1421.20	1.96	0.042451
1421.40	1.96	0.042438
1421.60	1.96	0.042425
1421.80	1.96	0.042411
1422.00	1.96	0.042398
1422.20	1.96	0.042384
1422.40	1.96	0.042371
1422.60	1.95	0.042358
1422.80	1.95	0.042344
1423.00	1.95	0.042331

1423.20	1.95	0.042318
1423.40	1.95	0.042304
1423.60	1.95	0.042291
1423.80	1.95	0.042278
1424.00	1.95	0.042264
1424.20	1.95	0.042251
1424.40	1.94	0.042238
1424.60	1.94	0.042225
1424.80	1.94	0.042211
1425.00	1.94	0.042198
1425.20	1.94	0.042185
1425.40	1.94	0.042172
1425.60	1.94	0.042159
1425.80	1.94	0.042146
1426.00	1.94	0.042132
1426.20	1.94	0.042119
1426.40	1.93	0.042106
1426.60	1.93	0.042093
1426.80	1.93	0.042080
1427.00	1.93	0.042067
1427.20	1.93	0.042054
1427.40	1.93	0.042041
1427.60	1.93	0.042028
1427.80	1.93	0.042015
1428.00	1.93	0.042002
1428.20	1.92	0.041989
1428.40	1.92	0.041976
1428.60	1.92	0.041963
1428.80	1.92	0.041950
1429.00	1.92	0.041937
1429.20	1.92	0.041924
1429.40	1.92	0.041911
1429.60	1.92	0.041898
1429.80	1.92	0.041885
1430.00	1.92	0.041872
1430.20	1.91	0.041860
1430.40	1.91	0.041847
1430.60	1.91	0.041834
1430.80	1.91	0.041821
1431.00	1.91	0.041808
1431.20	1.91	0.041796
1431.40	1.91	0.041783
1431.60	1.91	0.041770
1431.80	1.91	0.041757
1432.00	1.91	0.041745
1432.20	1.90	0.041732
1432.40	1.90	0.041719
1432.60	1.90	0.041707
1432.80	1.90	0.041694
1433.00	1.90	0.041681
1433.20	1.90	0.041669
1433.40	1.90	0.041656
1433.60	1.90	0.041643
1433.80	1.90	0.041631
1434.00	1.90	0.041618
1434.20	1.89	0.041606
1434.40	1.89	0.041593
1434.60	1.89	0.041581
1434.80	1.89	0.041568
1435.00	1.89	0.041556
1435.20	1.89	0.041543
1435.40	1.89	0.041531
1435.60	1.89	0.041518
1435.80	1.89	0.041506
1436.00	1.89	0.041493
1436.20	1.88	0.041481

1436.40	1.88	0.041469
1436.60	1.88	0.041456
1436.80	1.88	0.041444
1437.00	1.88	0.041432
1437.20	1.88	0.041419
1437.40	1.88	0.041407
1437.60	1.88	0.041395
1437.80	1.88	0.041382
1438.00	1.88	0.041370
1438.20	1.87	0.041358
1438.40	1.87	0.041346
1438.60	1.87	0.041333
1438.80	1.87	0.041321
1439.00	1.87	0.041309
1439.20	1.87	0.041297
1439.40	1.87	0.041285
1439.60	1.87	0.041273
1439.80	1.87	0.041260
1440.00	1.87	0.041248
1440.20	1.86	0.041223
1440.40	1.86	0.041184
1440.60	1.86	0.041133
1440.80	1.85	0.041074
1441.00	1.85	0.041008
1441.20	1.84	0.040934
1441.40	1.84	0.040853
1441.60	1.83	0.040764
1441.80	1.82	0.040669
1442.00	1.81	0.040567
1442.20	1.81	0.040459
1442.40	1.80	0.040344
1442.60	1.79	0.040223
1442.80	1.78	0.040096
1443.00	1.77	0.039962
1443.20	1.76	0.039823
1443.40	1.74	0.039678
1443.60	1.73	0.039527
1443.80	1.72	0.039371
1444.00	1.71	0.039210
1444.20	1.70	0.039043
1444.40	1.68	0.038871
1444.60	1.67	0.038694
1444.80	1.65	0.038512
1445.00	1.64	0.038326
1445.20	1.62	0.038134
1445.40	1.61	0.037938
1445.60	1.59	0.037738
1445.80	1.58	0.037533
1446.00	1.56	0.037324
1446.20	1.54	0.037111
1446.40	1.52	0.036893
1446.60	1.51	0.036672
1446.80	1.49	0.036447
1447.00	1.47	0.036218
1447.20	1.45	0.035985
1447.40	1.43	0.035748
1447.60	1.41	0.035508
1447.80	1.40	0.035264
1448.00	1.38	0.035017
1448.20	1.36	0.034767
1448.40	1.34	0.034514
1448.60	1.32	0.034257
1448.80	1.29	0.033997
1449.00	1.27	0.033734
1449.20	1.25	0.033468
1449.40	1.23	0.033199

1449.60	1.21	0.032928
1449.80	1.19	0.032653
1450.00	1.17	0.032376
1450.20	1.14	0.032096
1450.40	1.12	0.031814
1450.60	1.10	0.031529
1450.80	1.08	0.031242
1451.00	1.05	0.030952
1451.20	1.03	0.030668
1451.40	1.01	0.030391
1451.60	0.98	0.030120
1451.80	0.96	0.029855
1452.00	0.94	0.029595
1452.20	0.92	0.029341
1452.40	0.90	0.029093
1452.60	0.88	0.028850
1452.80	0.86	0.028612
1453.00	0.84	0.028380
1453.20	0.83	0.028153
1453.40	0.81	0.027930
1453.60	0.79	0.027713
1453.80	0.77	0.027500
1454.00	0.76	0.027292
1454.20	0.74	0.027088
1454.40	0.72	0.026889
1454.60	0.71	0.026694
1454.80	0.69	0.026504
1455.00	0.68	0.026317
1455.20	0.66	0.026135
1455.40	0.65	0.025957
1455.60	0.63	0.025782
1455.80	0.62	0.025611
1456.00	0.61	0.025445
1456.20	0.59	0.025281
1456.40	0.58	0.025122
1456.60	0.57	0.024965
1456.80	0.55	0.024812
1457.00	0.54	0.024663
1457.20	0.53	0.024517
1457.40	0.52	0.024374
1457.60	0.51	0.024234
1457.80	0.50	0.024096
1458.00	0.50	0.023960
1458.20	0.49	0.023824
1458.40	0.49	0.023690
1458.60	0.49	0.023556
1458.80	0.48	0.023423
1459.00	0.48	0.023291
1459.20	0.48	0.023160
1459.40	0.47	0.023030
1459.60	0.47	0.022901
1459.80	0.47	0.022773
1460.00	0.46	0.022645
1460.20	0.46	0.022519
1460.40	0.46	0.022393
1460.60	0.45	0.022268
1460.80	0.45	0.022144
1461.00	0.45	0.022021
1461.20	0.44	0.021899
1461.40	0.44	0.021777
1461.60	0.44	0.021657
1461.80	0.43	0.021537
1462.00	0.43	0.021418
1462.20	0.43	0.021300
1462.40	0.43	0.021183
1462.60	0.42	0.021066

1462.80	0.42	0.020950
1463.00	0.42	0.020836
1463.20	0.41	0.020721
1463.40	0.41	0.020608
1463.60	0.41	0.020496
1463.80	0.41	0.020384
1464.00	0.40	0.020273
1464.20	0.40	0.020163
1464.40	0.40	0.020053
1464.60	0.39	0.019944
1464.80	0.39	0.019836
1465.00	0.39	0.019729
1465.20	0.39	0.019623
1465.40	0.38	0.019517
1465.60	0.38	0.019412
1465.80	0.38	0.019307
1466.00	0.38	0.019204
1466.20	0.37	0.019101
1466.40	0.37	0.018999
1466.60	0.37	0.018897
1466.80	0.37	0.018796
1467.00	0.36	0.018696
1467.20	0.36	0.018597
1467.40	0.36	0.018498
1467.60	0.36	0.018400
1467.80	0.35	0.018303
1468.00	0.35	0.018206
1468.20	0.35	0.018110
1468.40	0.35	0.018015
1468.60	0.34	0.017920
1468.80	0.34	0.017826
1469.00	0.34	0.017732
1469.20	0.34	0.017639
1469.40	0.33	0.017547
1469.60	0.33	0.017456
1469.80	0.33	0.017365
1470.00	0.33	0.017275
1470.20	0.33	0.017185
1470.40	0.32	0.017096
1470.60	0.32	0.017008
1470.80	0.32	0.016920
1471.00	0.32	0.016832
1471.20	0.31	0.016746
1471.40	0.31	0.016660
1471.60	0.31	0.016574
1471.80	0.31	0.016490
1472.00	0.31	0.016405
1472.20	0.30	0.016322
1472.40	0.30	0.016239
1472.60	0.30	0.016156
1472.80	0.30	0.016074
1473.00	0.30	0.015993
1473.20	0.29	0.015912
1473.40	0.29	0.015832
1473.60	0.29	0.015752
1473.80	0.29	0.015673
1474.00	0.29	0.015594
1474.20	0.28	0.015516
1474.40	0.28	0.015438
1474.60	0.28	0.015361
1474.80	0.28	0.015285
1475.00	0.28	0.015209
1475.20	0.27	0.015133
1475.40	0.27	0.015058
1475.60	0.27	0.014984
1475.80	0.27	0.014910

1476.00	0.27	0.014837
1476.20	0.26	0.014764
1476.40	0.26	0.014691
1476.60	0.26	0.014619
1476.80	0.26	0.014548
1477.00	0.26	0.014477
1477.20	0.26	0.014407
1477.40	0.25	0.014337
1477.60	0.25	0.014267
1477.80	0.25	0.014198
1478.00	0.25	0.014130
1478.20	0.25	0.014062
1478.40	0.25	0.013994
1478.60	0.24	0.013927
1478.80	0.24	0.013860
1479.00	0.24	0.013794
1479.20	0.24	0.013729
1479.40	0.24	0.013663
1479.60	0.24	0.013598
1479.80	0.23	0.013534
1480.00	0.23	0.013470
1480.20	0.23	0.013407
1480.40	0.23	0.013343
1480.60	0.23	0.013281
1480.80	0.23	0.013219
1481.00	0.22	0.013157
1481.20	0.22	0.013096
1481.40	0.22	0.013035
1481.60	0.22	0.012974
1481.80	0.22	0.012914
1482.00	0.22	0.012854
1482.20	0.22	0.012795
1482.40	0.21	0.012736
1482.60	0.21	0.012678
1482.80	0.21	0.012620
1483.00	0.21	0.012562
1483.20	0.21	0.012505
1483.40	0.21	0.012448
1483.60	0.21	0.012391
1483.80	0.20	0.012335
1484.00	0.20	0.012279
1484.20	0.20	0.012224
1484.40	0.20	0.012169
1484.60	0.20	0.012115
1484.80	0.20	0.012060
1485.00	0.20	0.012007
1485.20	0.19	0.011953
1485.40	0.19	0.011900
1485.60	0.19	0.011847
1485.80	0.19	0.011795
1486.00	0.19	0.011743
1486.20	0.19	0.011691
1486.40	0.19	0.011640
1486.60	0.18	0.011589
1486.80	0.18	0.011539
1487.00	0.18	0.011488
1487.20	0.18	0.011438
1487.40	0.18	0.011389
1487.60	0.18	0.011340
1487.80	0.18	0.011291
1488.00	0.18	0.011242
1488.20	0.17	0.011194
1488.40	0.17	0.011146
1488.60	0.17	0.011099
1488.80	0.17	0.011051
1489.00	0.17	0.011005

1489.20	0.17	0.010958
1489.40	0.17	0.010912
1489.60	0.17	0.010866
1489.80	0.17	0.010820
1490.00	0.16	0.010775
1490.20	0.16	0.010730
1490.40	0.16	0.010685
1490.60	0.16	0.010641
1490.80	0.16	0.010597
1491.00	0.16	0.010553
1491.20	0.16	0.010510
1491.40	0.16	0.010466
1491.60	0.16	0.010424
1491.80	0.15	0.010381
1492.00	0.15	0.010339
1492.20	0.15	0.010297
1492.40	0.15	0.010255
1492.60	0.15	0.010214
1492.80	0.15	0.010172
1493.00	0.15	0.010132
1493.20	0.15	0.010091
1493.40	0.15	0.010051
1493.60	0.15	0.010011
1493.80	0.14	0.009971
1494.00	0.14	0.009931
1494.20	0.14	0.009892
1494.40	0.14	0.009853
1494.60	0.14	0.009815
1494.80	0.14	0.009776
1495.00	0.14	0.009738
1495.20	0.14	0.009700
1495.40	0.14	0.009663
1495.60	0.14	0.009625
1495.80	0.13	0.009588
1496.00	0.13	0.009551
1496.20	0.13	0.009515
1496.40	0.13	0.009479
1496.60	0.13	0.009442
1496.80	0.13	0.009407
1497.00	0.13	0.009371
1497.20	0.13	0.009336
1497.40	0.13	0.009301
1497.60	0.13	0.009266
1497.80	0.13	0.009231
1498.00	0.12	0.009197
1498.20	0.12	0.009163
1498.40	0.12	0.009129
1498.60	0.12	0.009095
1498.80	0.12	0.009062
1499.00	0.12	0.009028
1499.20	0.12	0.008995
1499.40	0.12	0.008963
1499.60	0.12	0.008930
1499.80	0.12	0.008898
1500.00	0.12	0.008866
1500.20	0.12	0.008834
1500.40	0.11	0.008802
1500.60	0.11	0.008771
1500.80	0.11	0.008739
1501.00	0.11	0.008708
1501.20	0.11	0.008678
1501.40	0.11	0.008647
1501.60	0.11	0.008617
1501.80	0.11	0.008587
1502.00	0.11	0.008557
1502.20	0.11	0.008527

1502.40	0.11	0.008497
1502.60	0.11	0.008468
1502.80	0.11	0.008439
1503.00	0.11	0.008410
1503.20	0.10	0.008381
1503.40	0.10	0.008353
1503.60	0.10	0.008324
1503.80	0.10	0.008296
1504.00	0.10	0.008268
1504.20	0.10	0.008240
1504.40	0.10	0.008213
1504.60	0.10	0.008185
1504.80	0.10	0.008158
1505.00	0.10	0.008131
1505.20	0.10	0.008104
1505.40	0.10	0.008078
1505.60	0.10	0.008051
1505.80	0.10	0.008025
1506.00	0.09	0.007999
1506.20	0.09	0.007973
1506.40	0.09	0.007947
1506.60	0.09	0.007922
1506.80	0.09	0.007896
1507.00	0.09	0.007871
1507.20	0.09	0.007846
1507.40	0.09	0.007821
1507.60	0.09	0.007796
1507.80	0.09	0.007772
1508.00	0.09	0.007748
1508.20	0.09	0.007723
1508.40	0.09	0.007699
1508.60	0.09	0.007676
1508.80	0.09	0.007652
1509.00	0.09	0.007628
1509.20	0.08	0.007605
1509.40	0.08	0.007582
1509.60	0.08	0.007559
1509.80	0.08	0.007536
1510.00	0.08	0.007513
1510.20	0.08	0.007490
1510.40	0.08	0.007468
1510.60	0.08	0.007446
1510.80	0.08	0.007424
1511.00	0.08	0.007402
1511.20	0.08	0.007380
1511.40	0.08	0.007358
1511.60	0.08	0.007337
1511.80	0.08	0.007315
1512.00	0.08	0.007294
1512.20	0.08	0.007273
1512.40	0.08	0.007252
1512.60	0.08	0.007231
1512.80	0.07	0.007211
1513.00	0.07	0.007190
1513.20	0.07	0.007170
1513.40	0.07	0.007150
1513.60	0.07	0.007130
1513.80	0.07	0.007110
1514.00	0.07	0.007090
1514.20	0.07	0.007070
1514.40	0.07	0.007051
1514.60	0.07	0.007031
1514.80	0.07	0.007012
1515.00	0.07	0.006993
1515.20	0.07	0.006974
1515.40	0.07	0.006955

1515.60	0.07	0.006936
1515.80	0.07	0.006918
1516.00	0.07	0.006899
1516.20	0.07	0.006881
1516.40	0.07	0.006862
1516.60	0.07	0.006844
1516.80	0.07	0.006826
1517.00	0.06	0.006808
1517.20	0.06	0.006791
1517.40	0.06	0.006773
1517.60	0.06	0.006756
1517.80	0.06	0.006738
1518.00	0.06	0.006721
1518.20	0.06	0.006704
1518.40	0.06	0.006687
1518.60	0.06	0.006670
1518.80	0.06	0.006653
1519.00	0.06	0.006636
1519.20	0.06	0.006620
1519.40	0.06	0.006603
1519.60	0.06	0.006587
1519.80	0.06	0.006571
1520.00	0.06	0.006555
1520.20	0.06	0.006539
1520.40	0.06	0.006523
1520.60	0.06	0.006507
1520.80	0.06	0.006492
1521.00	0.06	0.006476
1521.20	0.06	0.006461
1521.40	0.06	0.006445
1521.60	0.06	0.006430
1521.80	0.05	0.006415
1522.00	0.05	0.006400
1522.20	0.05	0.006385
1522.40	0.05	0.006370
1522.60	0.05	0.006355
1522.80	0.05	0.006341
1523.00	0.05	0.006326
1523.20	0.05	0.006312
1523.40	0.05	0.006297
1523.60	0.05	0.006283
1523.80	0.05	0.006269
1524.00	0.05	0.006255
1524.20	0.05	0.006241
1524.40	0.05	0.006227
1524.60	0.05	0.006213
1524.80	0.05	0.006200
1525.00	0.05	0.006186
1525.20	0.05	0.006173
1525.40	0.05	0.006159
1525.60	0.05	0.006146
1525.80	0.05	0.006133
1526.00	0.05	0.006120
1526.20	0.05	0.006107
1526.40	0.05	0.006094
1526.60	0.05	0.006081
1526.80	0.05	0.006068
1527.00	0.05	0.006056
1527.20	0.05	0.006043
1527.40	0.05	0.006031
1527.60	0.04	0.006018
1527.80	0.04	0.006006
1528.00	0.04	0.005994
1528.20	0.04	0.005982
1528.40	0.04	0.005970
1528.60	0.04	0.005958

1528.80	0.04	0.005946
1529.00	0.04	0.005934
1529.20	0.04	0.005922
1529.40	0.04	0.005911
1529.60	0.04	0.005899
1529.80	0.04	0.005887
1530.00	0.04	0.005876
1530.20	0.04	0.005865
1530.40	0.04	0.005853
1530.60	0.04	0.005842
1530.80	0.04	0.005831
1531.00	0.04	0.005820
1531.20	0.04	0.005809
1531.40	0.04	0.005798
1531.60	0.04	0.005788
1531.80	0.04	0.005777
1532.00	0.04	0.005766
1532.20	0.04	0.005756
1532.40	0.04	0.005745
1532.60	0.04	0.005735
1532.80	0.04	0.005724
1533.00	0.04	0.005714

Hydraulic Analysis Report

Project Data

PA 3 Detention Storage

Project Title:
Designer:
Project Date: Wednesday, February 17, 2021
Project Units: U.S. Customary Units
Notes:

Detention Basin Analysis: Detention Basin Analysis

Notes:

Storage Input Parameters

Storage Capacity: Known geometry
Length: 19.0000 ft
Width: 19.0000 ft
Depth: 5.0000 ft
Side slope: 0.0000 ft/ft
Base elevation: 0.0000 ft

Storage Volume: 1,805 cubic feet

Discharge Input Parameters

Known Discharge: Known Discharge 1

Elevation ft	Discharge cfs
0.00	0.00
0.25	0.30
0.50	1.10
0.75	2.20
1.00	3.80
1.25	4.90
1.50	5.80
1.75	6.50
2.00	7.20
2.25	7.80
2.50	8.40
2.75	9.00
3.00	9.50
3.25	10.00
3.50	10.40
3.75	10.90
4.00	11.30
4.25	11.70
4.50	12.10
4.75	12.50
5.00	12.90

Storage & Discharge Input Parameters

Elevation - Storage - Discharge

Elevation ft	Storage acre-ft	Discharge cfs
0.00	0.00	0.00
0.25	0.00	0.30
0.50	0.00	1.10
0.75	0.01	2.20
1.00	0.01	3.80
1.25	0.01	4.90
1.50	0.01	5.80
1.75	0.01	6.50
2.00	0.02	7.20
2.25	0.02	7.80
2.50	0.02	8.40
2.75	0.02	9.00
3.00	0.02	9.50
3.25	0.03	10.00
3.50	0.03	10.40
3.75	0.03	10.90
4.00	0.03	11.30
4.25	0.04	11.70
4.50	0.04	12.10
4.75	0.04	12.50
5.00	0.04	12.90

Detention Basin Input Parameters

Inflow Hydrograph

Peak Inflow Discharge: 14.203 cfs, Time to Peak: 1154.00 (min), Total Inflow Volume: 80

Time (min)	Discharge cfs
0.00	0.00
0.20	0.01
0.40	0.01
0.60	0.02
0.80	0.03
1.00	0.04
1.20	0.04
1.40	0.05
1.60	0.06
1.80	0.06
2.00	0.07
2.20	0.08
2.40	0.08
2.60	0.09
2.80	0.10
3.00	0.11
3.20	0.11
3.40	0.12
3.60	0.13
3.80	0.13
4.00	0.14
4.20	0.15
4.40	0.15
4.60	0.16
4.80	0.17
5.00	0.18
5.20	0.18
5.40	0.19
5.60	0.20
5.80	0.20
6.00	0.21
6.20	0.22
6.40	0.22
6.60	0.23
6.80	0.24
7.00	0.25
7.20	0.25
7.40	0.26
7.60	0.27
7.80	0.27
8.00	0.28
8.20	0.29
8.40	0.29
8.60	0.30
8.80	0.31
9.00	0.32
9.20	0.32
9.40	0.33
9.60	0.34
9.80	0.34
10.00	0.35
10.20	0.35
10.40	0.35

10.60	0.35
10.80	0.35
11.00	0.35
11.20	0.35
11.40	0.35
11.60	0.35
11.80	0.35
12.00	0.35
12.20	0.35
12.40	0.35
12.60	0.35
12.80	0.35
13.00	0.35
13.20	0.35
13.40	0.35
13.60	0.35
13.80	0.35
14.00	0.35
14.20	0.35
14.40	0.35
14.60	0.35
14.80	0.35
15.00	0.35
15.20	0.35
15.40	0.35
15.60	0.35
15.80	0.35
16.00	0.35
16.20	0.35
16.40	0.35
16.60	0.35
16.80	0.35
17.00	0.35
17.20	0.35
17.40	0.35
17.60	0.35
17.80	0.35
18.00	0.35
18.20	0.35
18.40	0.35
18.60	0.35
18.80	0.35
19.00	0.35
19.20	0.35
19.40	0.35
19.60	0.35
19.80	0.35
20.00	0.35
20.20	0.35
20.40	0.35
20.60	0.35
20.80	0.35
21.00	0.35
21.20	0.35
21.40	0.35
21.60	0.35
21.80	0.35
22.00	0.35
22.20	0.35
22.40	0.35
22.60	0.35
22.80	0.35
23.00	0.35
23.20	0.35
23.40	0.35
23.60	0.35

23.80	0.35
24.00	0.35
24.20	0.35
24.40	0.35
24.60	0.35
24.80	0.35
25.00	0.35
25.20	0.35
25.40	0.35
25.60	0.35
25.80	0.35
26.00	0.35
26.20	0.35
26.40	0.35
26.60	0.35
26.80	0.35
27.00	0.35
27.20	0.35
27.40	0.35
27.60	0.35
27.80	0.35
28.00	0.35
28.20	0.35
28.40	0.35
28.60	0.36
28.80	0.36
29.00	0.36
29.20	0.36
29.40	0.36
29.60	0.36
29.80	0.36
30.00	0.36
30.20	0.36
30.40	0.36
30.60	0.36
30.80	0.36
31.00	0.36
31.20	0.36
31.40	0.36
31.60	0.36
31.80	0.36
32.00	0.36
32.20	0.36
32.40	0.36
32.60	0.36
32.80	0.36
33.00	0.36
33.20	0.36
33.40	0.36
33.60	0.36
33.80	0.36
34.00	0.36
34.20	0.36
34.40	0.36
34.60	0.36
34.80	0.36
35.00	0.36
35.20	0.36
35.40	0.36
35.60	0.36
35.80	0.36
36.00	0.36
36.20	0.36
36.40	0.36
36.60	0.36
36.80	0.36

37.00	0.36
37.20	0.36
37.40	0.36
37.60	0.36
37.80	0.36
38.00	0.36
38.20	0.36
38.40	0.36
38.60	0.36
38.80	0.36
39.00	0.36
39.20	0.36
39.40	0.36
39.60	0.36
39.80	0.36
40.00	0.36
40.20	0.36
40.40	0.36
40.60	0.36
40.80	0.36
41.00	0.36
41.20	0.36
41.40	0.36
41.60	0.36
41.80	0.36
42.00	0.36
42.20	0.36
42.40	0.36
42.60	0.36
42.80	0.36
43.00	0.36
43.20	0.36
43.40	0.36
43.60	0.36
43.80	0.36
44.00	0.36
44.20	0.36
44.40	0.36
44.60	0.36
44.80	0.36
45.00	0.36
45.20	0.36
45.40	0.36
45.60	0.36
45.80	0.36
46.00	0.36
46.20	0.36
46.40	0.36
46.60	0.36
46.80	0.36
47.00	0.36
47.20	0.36
47.40	0.36
47.60	0.36
47.80	0.36
48.00	0.36
48.20	0.36
48.40	0.36
48.60	0.36
48.80	0.36
49.00	0.36
49.20	0.36
49.40	0.36
49.60	0.36
49.80	0.36
50.00	0.36

50.20	0.36
50.40	0.36
50.60	0.36
50.80	0.36
51.00	0.36
51.20	0.36
51.40	0.36
51.60	0.36
51.80	0.36
52.00	0.36
52.20	0.36
52.40	0.36
52.60	0.36
52.80	0.36
53.00	0.36
53.20	0.36
53.40	0.36
53.60	0.36
53.80	0.36
54.00	0.36
54.20	0.36
54.40	0.36
54.60	0.36
54.80	0.36
55.00	0.36
55.20	0.36
55.40	0.36
55.60	0.36
55.80	0.36
56.00	0.36
56.20	0.36
56.40	0.36
56.60	0.36
56.80	0.36
57.00	0.36
57.20	0.36
57.40	0.36
57.60	0.36
57.80	0.36
58.00	0.36
58.20	0.36
58.40	0.36
58.60	0.36
58.80	0.36
59.00	0.36
59.20	0.36
59.40	0.36
59.60	0.36
59.80	0.36
60.00	0.36
60.20	0.36
60.40	0.36
60.60	0.36
60.80	0.36
61.00	0.36
61.20	0.36
61.40	0.36
61.60	0.36
61.80	0.36
62.00	0.36
62.20	0.36
62.40	0.36
62.60	0.36
62.80	0.36
63.00	0.36
63.20	0.36

63.40	0.36
63.60	0.36
63.80	0.36
64.00	0.36
64.20	0.36
64.40	0.36
64.60	0.36
64.80	0.36
65.00	0.36
65.20	0.36
65.40	0.36
65.60	0.36
65.80	0.36
66.00	0.36
66.20	0.36
66.40	0.36
66.60	0.36
66.80	0.36
67.00	0.36
67.20	0.36
67.40	0.36
67.60	0.36
67.80	0.36
68.00	0.36
68.20	0.36
68.40	0.36
68.60	0.36
68.80	0.36
69.00	0.36
69.20	0.36
69.40	0.36
69.60	0.36
69.80	0.36
70.00	0.36
70.20	0.36
70.40	0.36
70.60	0.36
70.80	0.36
71.00	0.36
71.20	0.36
71.40	0.36
71.60	0.36
71.80	0.36
72.00	0.36
72.20	0.36
72.40	0.36
72.60	0.36
72.80	0.36
73.00	0.36
73.20	0.36
73.40	0.36
73.60	0.36
73.80	0.37
74.00	0.37
74.20	0.37
74.40	0.37
74.60	0.37
74.80	0.37
75.00	0.37
75.20	0.37
75.40	0.37
75.60	0.37
75.80	0.37
76.00	0.37
76.20	0.37
76.40	0.37

76.60	0.37
76.80	0.37
77.00	0.37
77.20	0.37
77.40	0.37
77.60	0.37
77.80	0.37
78.00	0.37
78.20	0.37
78.40	0.37
78.60	0.37
78.80	0.37
79.00	0.37
79.20	0.37
79.40	0.37
79.60	0.37
79.80	0.37
80.00	0.37
80.20	0.37
80.40	0.37
80.60	0.37
80.80	0.37
81.00	0.37
81.20	0.37
81.40	0.37
81.60	0.37
81.80	0.37
82.00	0.37
82.20	0.37
82.40	0.37
82.60	0.37
82.80	0.37
83.00	0.37
83.20	0.37
83.40	0.37
83.60	0.37
83.80	0.37
84.00	0.37
84.20	0.37
84.40	0.37
84.60	0.37
84.80	0.37
85.00	0.37
85.20	0.37
85.40	0.37
85.60	0.37
85.80	0.37
86.00	0.37
86.20	0.37
86.40	0.37
86.60	0.37
86.80	0.37
87.00	0.37
87.20	0.37
87.40	0.37
87.60	0.37
87.80	0.37
88.00	0.37
88.20	0.37
88.40	0.37
88.60	0.37
88.80	0.37
89.00	0.37
89.20	0.37
89.40	0.37
89.60	0.37

89.80	0.37
90.00	0.37
90.20	0.37
90.40	0.37
90.60	0.37
90.80	0.37
91.00	0.37
91.20	0.37
91.40	0.37
91.60	0.37
91.80	0.37
92.00	0.37
92.20	0.37
92.40	0.37
92.60	0.37
92.80	0.37
93.00	0.37
93.20	0.37
93.40	0.37
93.60	0.37
93.80	0.37
94.00	0.37
94.20	0.37
94.40	0.37
94.60	0.37
94.80	0.37
95.00	0.37
95.20	0.37
95.40	0.37
95.60	0.37
95.80	0.37
96.00	0.37
96.20	0.37
96.40	0.37
96.60	0.37
96.80	0.37
97.00	0.37
97.20	0.37
97.40	0.37
97.60	0.37
97.80	0.37
98.00	0.37
98.20	0.37
98.40	0.37
98.60	0.37
98.80	0.37
99.00	0.37
99.20	0.37
99.40	0.37
99.60	0.37
99.80	0.37
100.00	0.37
100.20	0.37
100.40	0.37
100.60	0.37
100.80	0.37
101.00	0.37
101.20	0.37
101.40	0.37
101.60	0.37
101.80	0.37
102.00	0.37
102.20	0.37
102.40	0.37
102.60	0.37
102.80	0.37

103.00	0.37
103.20	0.37
103.40	0.37
103.60	0.37
103.80	0.37
104.00	0.37
104.20	0.37
104.40	0.37
104.60	0.37
104.80	0.37
105.00	0.37
105.20	0.37
105.40	0.37
105.60	0.37
105.80	0.37
106.00	0.37
106.20	0.37
106.40	0.37
106.60	0.37
106.80	0.37
107.00	0.37
107.20	0.37
107.40	0.37
107.60	0.37
107.80	0.37
108.00	0.37
108.20	0.37
108.40	0.37
108.60	0.37
108.80	0.37
109.00	0.37
109.20	0.37
109.40	0.37
109.60	0.37
109.80	0.37
110.00	0.37
110.20	0.37
110.40	0.37
110.60	0.37
110.80	0.37
111.00	0.37
111.20	0.37
111.40	0.37
111.60	0.37
111.80	0.37
112.00	0.37
112.20	0.37
112.40	0.37
112.60	0.37
112.80	0.37
113.00	0.37
113.20	0.37
113.40	0.37
113.60	0.37
113.80	0.37
114.00	0.37
114.20	0.37
114.40	0.37
114.60	0.37
114.80	0.37
115.00	0.37
115.20	0.37
115.40	0.37
115.60	0.38
115.80	0.38
116.00	0.38

116.20	0.38
116.40	0.38
116.60	0.38
116.80	0.38
117.00	0.38
117.20	0.38
117.40	0.38
117.60	0.38
117.80	0.38
118.00	0.38
118.20	0.38
118.40	0.38
118.60	0.38
118.80	0.38
119.00	0.38
119.20	0.38
119.40	0.38
119.60	0.38
119.80	0.38
120.00	0.38
120.20	0.38
120.40	0.38
120.60	0.38
120.80	0.38
121.00	0.38
121.20	0.38
121.40	0.38
121.60	0.38
121.80	0.38
122.00	0.38
122.20	0.38
122.40	0.38
122.60	0.38
122.80	0.38
123.00	0.38
123.20	0.38
123.40	0.38
123.60	0.38
123.80	0.38
124.00	0.38
124.20	0.38
124.40	0.38
124.60	0.38
124.80	0.38
125.00	0.38
125.20	0.38
125.40	0.38
125.60	0.38
125.80	0.38
126.00	0.38
126.20	0.38
126.40	0.38
126.60	0.38
126.80	0.38
127.00	0.38
127.20	0.38
127.40	0.38
127.60	0.38
127.80	0.38
128.00	0.38
128.20	0.38
128.40	0.38
128.60	0.38
128.80	0.38
129.00	0.38
129.20	0.38

129.40	0.38
129.60	0.38
129.80	0.38
130.00	0.38
130.20	0.38
130.40	0.38
130.60	0.38
130.80	0.38
131.00	0.38
131.20	0.38
131.40	0.38
131.60	0.38
131.80	0.38
132.00	0.38
132.20	0.38
132.40	0.38
132.60	0.38
132.80	0.38
133.00	0.38
133.20	0.38
133.40	0.38
133.60	0.38
133.80	0.38
134.00	0.38
134.20	0.38
134.40	0.38
134.60	0.38
134.80	0.38
135.00	0.38
135.20	0.38
135.40	0.38
135.60	0.38
135.80	0.38
136.00	0.38
136.20	0.38
136.40	0.38
136.60	0.38
136.80	0.38
137.00	0.38
137.20	0.38
137.40	0.38
137.60	0.38
137.80	0.38
138.00	0.38
138.20	0.38
138.40	0.38
138.60	0.38
138.80	0.38
139.00	0.38
139.20	0.38
139.40	0.38
139.60	0.38
139.80	0.38
140.00	0.38
140.20	0.38
140.40	0.38
140.60	0.38
140.80	0.38
141.00	0.38
141.20	0.38
141.40	0.38
141.60	0.38
141.80	0.38
142.00	0.38
142.20	0.38
142.40	0.38

142.60	0.38
142.80	0.38
143.00	0.38
143.20	0.38
143.40	0.38
143.60	0.38
143.80	0.38
144.00	0.38
144.20	0.38
144.40	0.38
144.60	0.38
144.80	0.38
145.00	0.38
145.20	0.38
145.40	0.38
145.60	0.38
145.80	0.38
146.00	0.38
146.20	0.38
146.40	0.38
146.60	0.38
146.80	0.38
147.00	0.38
147.20	0.38
147.40	0.38
147.60	0.38
147.80	0.38
148.00	0.38
148.20	0.38
148.40	0.38
148.60	0.38
148.80	0.38
149.00	0.38
149.20	0.38
149.40	0.38
149.60	0.38
149.80	0.38
150.00	0.38
150.20	0.38
150.40	0.38
150.60	0.38
150.80	0.38
151.00	0.38
151.20	0.38
151.40	0.38
151.60	0.38
151.80	0.38
152.00	0.38
152.20	0.38
152.40	0.38
152.60	0.38
152.80	0.38
153.00	0.38
153.20	0.38
153.40	0.38
153.60	0.38
153.80	0.38
154.00	0.38
154.20	0.38
154.40	0.38
154.60	0.38
154.80	0.39
155.00	0.39
155.20	0.39
155.40	0.39
155.60	0.39

155.80	0.39
156.00	0.39
156.20	0.39
156.40	0.39
156.60	0.39
156.80	0.39
157.00	0.39
157.20	0.39
157.40	0.39
157.60	0.39
157.80	0.39
158.00	0.39
158.20	0.39
158.40	0.39
158.60	0.39
158.80	0.39
159.00	0.39
159.20	0.39
159.40	0.39
159.60	0.39
159.80	0.39
160.00	0.39
160.20	0.39
160.40	0.39
160.60	0.39
160.80	0.39
161.00	0.39
161.20	0.39
161.40	0.39
161.60	0.39
161.80	0.39
162.00	0.39
162.20	0.39
162.40	0.39
162.60	0.39
162.80	0.39
163.00	0.39
163.20	0.39
163.40	0.39
163.60	0.39
163.80	0.39
164.00	0.39
164.20	0.39
164.40	0.39
164.60	0.39
164.80	0.39
165.00	0.39
165.20	0.39
165.40	0.39
165.60	0.39
165.80	0.39
166.00	0.39
166.20	0.39
166.40	0.39
166.60	0.39
166.80	0.39
167.00	0.39
167.20	0.39
167.40	0.39
167.60	0.39
167.80	0.39
168.00	0.39
168.20	0.39
168.40	0.39
168.60	0.39
168.80	0.39

169.00	0.39
169.20	0.39
169.40	0.39
169.60	0.39
169.80	0.39
170.00	0.39
170.20	0.39
170.40	0.39
170.60	0.39
170.80	0.39
171.00	0.39
171.20	0.39
171.40	0.39
171.60	0.39
171.80	0.39
172.00	0.39
172.20	0.39
172.40	0.39
172.60	0.39
172.80	0.39
173.00	0.39
173.20	0.39
173.40	0.39
173.60	0.39
173.80	0.39
174.00	0.39
174.20	0.39
174.40	0.39
174.60	0.39
174.80	0.39
175.00	0.39
175.20	0.39
175.40	0.39
175.60	0.39
175.80	0.39
176.00	0.39
176.20	0.39
176.40	0.39
176.60	0.39
176.80	0.39
177.00	0.39
177.20	0.39
177.40	0.39
177.60	0.39
177.80	0.39
178.00	0.39
178.20	0.39
178.40	0.39
178.60	0.39
178.80	0.39
179.00	0.39
179.20	0.39
179.40	0.39
179.60	0.39
179.80	0.39
180.00	0.39
180.20	0.39
180.40	0.39
180.60	0.39
180.80	0.39
181.00	0.39
181.20	0.39
181.40	0.39
181.60	0.39
181.80	0.39
182.00	0.39

182.20	0.39
182.40	0.39
182.60	0.39
182.80	0.39
183.00	0.39
183.20	0.39
183.40	0.39
183.60	0.39
183.80	0.39
184.00	0.39
184.20	0.39
184.40	0.39
184.60	0.39
184.80	0.39
185.00	0.39
185.20	0.39
185.40	0.39
185.60	0.39
185.80	0.39
186.00	0.39
186.20	0.39
186.40	0.39
186.60	0.39
186.80	0.39
187.00	0.39
187.20	0.39
187.40	0.39
187.60	0.39
187.80	0.39
188.00	0.39
188.20	0.39
188.40	0.39
188.60	0.39
188.80	0.39
189.00	0.39
189.20	0.39
189.40	0.39
189.60	0.39
189.80	0.39
190.00	0.39
190.20	0.39
190.40	0.39
190.60	0.39
190.80	0.39
191.00	0.39
191.20	0.39
191.40	0.39
191.60	0.40
191.80	0.40
192.00	0.40
192.20	0.40
192.40	0.40
192.60	0.40
192.80	0.40
193.00	0.40
193.20	0.40
193.40	0.40
193.60	0.40
193.80	0.40
194.00	0.40
194.20	0.40
194.40	0.40
194.60	0.40
194.80	0.40
195.00	0.40
195.20	0.40

195.40	0.40
195.60	0.40
195.80	0.40
196.00	0.40
196.20	0.40
196.40	0.40
196.60	0.40
196.80	0.40
197.00	0.40
197.20	0.40
197.40	0.40
197.60	0.40
197.80	0.40
198.00	0.40
198.20	0.40
198.40	0.40
198.60	0.40
198.80	0.40
199.00	0.40
199.20	0.40
199.40	0.40
199.60	0.40
199.80	0.40
200.00	0.40
200.20	0.40
200.40	0.40
200.60	0.40
200.80	0.40
201.00	0.40
201.20	0.40
201.40	0.40
201.60	0.40
201.80	0.40
202.00	0.40
202.20	0.40
202.40	0.40
202.60	0.40
202.80	0.40
203.00	0.40
203.20	0.40
203.40	0.40
203.60	0.40
203.80	0.40
204.00	0.40
204.20	0.40
204.40	0.40
204.60	0.40
204.80	0.40
205.00	0.40
205.20	0.40
205.40	0.40
205.60	0.40
205.80	0.40
206.00	0.40
206.20	0.40
206.40	0.40
206.60	0.40
206.80	0.40
207.00	0.40
207.20	0.40
207.40	0.40
207.60	0.40
207.80	0.40
208.00	0.40
208.20	0.40
208.40	0.40

208.60	0.40
208.80	0.40
209.00	0.40
209.20	0.40
209.40	0.40
209.60	0.40
209.80	0.40
210.00	0.40
210.20	0.40
210.40	0.40
210.60	0.40
210.80	0.40
211.00	0.40
211.20	0.40
211.40	0.40
211.60	0.40
211.80	0.40
212.00	0.40
212.20	0.40
212.40	0.40
212.60	0.40
212.80	0.40
213.00	0.40
213.20	0.40
213.40	0.40
213.60	0.40
213.80	0.40
214.00	0.40
214.20	0.40
214.40	0.40
214.60	0.40
214.80	0.40
215.00	0.40
215.20	0.40
215.40	0.40
215.60	0.40
215.80	0.40
216.00	0.40
216.20	0.40
216.40	0.40
216.60	0.40
216.80	0.40
217.00	0.40
217.20	0.40
217.40	0.40
217.60	0.40
217.80	0.40
218.00	0.40
218.20	0.40
218.40	0.40
218.60	0.40
218.80	0.40
219.00	0.40
219.20	0.40
219.40	0.40
219.60	0.40
219.80	0.40
220.00	0.40
220.20	0.40
220.40	0.40
220.60	0.40
220.80	0.40
221.00	0.40
221.20	0.40
221.40	0.40
221.60	0.40

221.80	0.40
222.00	0.40
222.20	0.40
222.40	0.40
222.60	0.40
222.80	0.40
223.00	0.40
223.20	0.40
223.40	0.40
223.60	0.40
223.80	0.40
224.00	0.40
224.20	0.40
224.40	0.40
224.60	0.40
224.80	0.40
225.00	0.40
225.20	0.40
225.40	0.40
225.60	0.40
225.80	0.40
226.00	0.41
226.20	0.41
226.40	0.41
226.60	0.41
226.80	0.41
227.00	0.41
227.20	0.41
227.40	0.41
227.60	0.41
227.80	0.41
228.00	0.41
228.20	0.41
228.40	0.41
228.60	0.41
228.80	0.41
229.00	0.41
229.20	0.41
229.40	0.41
229.60	0.41
229.80	0.41
230.00	0.41
230.20	0.41
230.40	0.41
230.60	0.41
230.80	0.41
231.00	0.41
231.20	0.41
231.40	0.41
231.60	0.41
231.80	0.41
232.00	0.41
232.20	0.41
232.40	0.41
232.60	0.41
232.80	0.41
233.00	0.41
233.20	0.41
233.40	0.41
233.60	0.41
233.80	0.41
234.00	0.41
234.20	0.41
234.40	0.41
234.60	0.41
234.80	0.41

235.00	0.41
235.20	0.41
235.40	0.41
235.60	0.41
235.80	0.41
236.00	0.41
236.20	0.41
236.40	0.41
236.60	0.41
236.80	0.41
237.00	0.41
237.20	0.41
237.40	0.41
237.60	0.41
237.80	0.41
238.00	0.41
238.20	0.41
238.40	0.41
238.60	0.41
238.80	0.41
239.00	0.41
239.20	0.41
239.40	0.41
239.60	0.41
239.80	0.41
240.00	0.41
240.20	0.41
240.40	0.41
240.60	0.41
240.80	0.41
241.00	0.41
241.20	0.41
241.40	0.41
241.60	0.41
241.80	0.41
242.00	0.41
242.20	0.41
242.40	0.41
242.60	0.41
242.80	0.41
243.00	0.41
243.20	0.41
243.40	0.41
243.60	0.41
243.80	0.41
244.00	0.41
244.20	0.41
244.40	0.41
244.60	0.41
244.80	0.41
245.00	0.41
245.20	0.41
245.40	0.41
245.60	0.41
245.80	0.41
246.00	0.41
246.20	0.41
246.40	0.41
246.60	0.41
246.80	0.41
247.00	0.41
247.20	0.41
247.40	0.41
247.60	0.41
247.80	0.41
248.00	0.41

248.20	0.41
248.40	0.41
248.60	0.41
248.80	0.41
249.00	0.41
249.20	0.41
249.40	0.41
249.60	0.41
249.80	0.41
250.00	0.41
250.20	0.41
250.40	0.41
250.60	0.41
250.80	0.41
251.00	0.41
251.20	0.41
251.40	0.41
251.60	0.41
251.80	0.41
252.00	0.41
252.20	0.41
252.40	0.41
252.60	0.41
252.80	0.41
253.00	0.41
253.20	0.41
253.40	0.41
253.60	0.41
253.80	0.41
254.00	0.41
254.20	0.41
254.40	0.41
254.60	0.41
254.80	0.41
255.00	0.41
255.20	0.41
255.40	0.41
255.60	0.41
255.80	0.41
256.00	0.41
256.20	0.41
256.40	0.41
256.60	0.41
256.80	0.41
257.00	0.41
257.20	0.41
257.40	0.41
257.60	0.41
257.80	0.41
258.00	0.41
258.20	0.41
258.40	0.41
258.60	0.42
258.80	0.42
259.00	0.42
259.20	0.42
259.40	0.42
259.60	0.42
259.80	0.42
260.00	0.42
260.20	0.42
260.40	0.42
260.60	0.42
260.80	0.42
261.00	0.42
261.20	0.42

261.40	0.42
261.60	0.42
261.80	0.42
262.00	0.42
262.20	0.42
262.40	0.42
262.60	0.42
262.80	0.42
263.00	0.42
263.20	0.42
263.40	0.42
263.60	0.42
263.80	0.42
264.00	0.42
264.20	0.42
264.40	0.42
264.60	0.42
264.80	0.42
265.00	0.42
265.20	0.42
265.40	0.42
265.60	0.42
265.80	0.42
266.00	0.42
266.20	0.42
266.40	0.42
266.60	0.42
266.80	0.42
267.00	0.42
267.20	0.42
267.40	0.42
267.60	0.42
267.80	0.42
268.00	0.42
268.20	0.42
268.40	0.42
268.60	0.42
268.80	0.42
269.00	0.42
269.20	0.42
269.40	0.42
269.60	0.42
269.80	0.42
270.00	0.42
270.20	0.42
270.40	0.42
270.60	0.42
270.80	0.42
271.00	0.42
271.20	0.42
271.40	0.42
271.60	0.42
271.80	0.42
272.00	0.42
272.20	0.42
272.40	0.42
272.60	0.42
272.80	0.42
273.00	0.42
273.20	0.42
273.40	0.42
273.60	0.42
273.80	0.42
274.00	0.42
274.20	0.42
274.40	0.42

274.60	0.42
274.80	0.42
275.00	0.42
275.20	0.42
275.40	0.42
275.60	0.42
275.80	0.42
276.00	0.42
276.20	0.42
276.40	0.42
276.60	0.42
276.80	0.42
277.00	0.42
277.20	0.42
277.40	0.42
277.60	0.42
277.80	0.42
278.00	0.42
278.20	0.42
278.40	0.42
278.60	0.42
278.80	0.42
279.00	0.42
279.20	0.42
279.40	0.42
279.60	0.42
279.80	0.42
280.00	0.42
280.20	0.42
280.40	0.42
280.60	0.42
280.80	0.42
281.00	0.42
281.20	0.42
281.40	0.42
281.60	0.42
281.80	0.42
282.00	0.42
282.20	0.42
282.40	0.42
282.60	0.42
282.80	0.42
283.00	0.42
283.20	0.42
283.40	0.42
283.60	0.42
283.80	0.42
284.00	0.42
284.20	0.42
284.40	0.42
284.60	0.42
284.80	0.42
285.00	0.42
285.20	0.42
285.40	0.42
285.60	0.42
285.80	0.42
286.00	0.42
286.20	0.42
286.40	0.42
286.60	0.42
286.80	0.42
287.00	0.42
287.20	0.42
287.40	0.42
287.60	0.42

287.80	0.42
288.00	0.42
288.20	0.42
288.40	0.42
288.60	0.42
288.80	0.42
289.00	0.43
289.20	0.43
289.40	0.43
289.60	0.43
289.80	0.43
290.00	0.43
290.20	0.43
290.40	0.43
290.60	0.43
290.80	0.43
291.00	0.43
291.20	0.43
291.40	0.43
291.60	0.43
291.80	0.43
292.00	0.43
292.20	0.43
292.40	0.43
292.60	0.43
292.80	0.43
293.00	0.43
293.20	0.43
293.40	0.43
293.60	0.43
293.80	0.43
294.00	0.43
294.20	0.43
294.40	0.43
294.60	0.43
294.80	0.43
295.00	0.43
295.20	0.43
295.40	0.43
295.60	0.43
295.80	0.43
296.00	0.43
296.20	0.43
296.40	0.43
296.60	0.43
296.80	0.43
297.00	0.43
297.20	0.43
297.40	0.43
297.60	0.43
297.80	0.43
298.00	0.43
298.20	0.43
298.40	0.43
298.60	0.43
298.80	0.43
299.00	0.43
299.20	0.43
299.40	0.43
299.60	0.43
299.80	0.43
300.00	0.43
300.20	0.43
300.40	0.43
300.60	0.43
300.80	0.43

301.00	0.43
301.20	0.43
301.40	0.43
301.60	0.43
301.80	0.43
302.00	0.43
302.20	0.43
302.40	0.43
302.60	0.43
302.80	0.43
303.00	0.43
303.20	0.43
303.40	0.43
303.60	0.43
303.80	0.43
304.00	0.43
304.20	0.43
304.40	0.43
304.60	0.43
304.80	0.43
305.00	0.43
305.20	0.43
305.40	0.43
305.60	0.43
305.80	0.43
306.00	0.43
306.20	0.43
306.40	0.43
306.60	0.43
306.80	0.43
307.00	0.43
307.20	0.43
307.40	0.43
307.60	0.43
307.80	0.43
308.00	0.43
308.20	0.43
308.40	0.43
308.60	0.43
308.80	0.43
309.00	0.43
309.20	0.43
309.40	0.43
309.60	0.43
309.80	0.43
310.00	0.43
310.20	0.43
310.40	0.43
310.60	0.43
310.80	0.43
311.00	0.43
311.20	0.43
311.40	0.43
311.60	0.43
311.80	0.43
312.00	0.43
312.20	0.43
312.40	0.43
312.60	0.43
312.80	0.43
313.00	0.43
313.20	0.43
313.40	0.43
313.60	0.43
313.80	0.43
314.00	0.43

314.20	0.43
314.40	0.43
314.60	0.43
314.80	0.43
315.00	0.43
315.20	0.43
315.40	0.43
315.60	0.43
315.80	0.43
316.00	0.43
316.20	0.43
316.40	0.43
316.60	0.43
316.80	0.43
317.00	0.43
317.20	0.43
317.40	0.44
317.60	0.44
317.80	0.44
318.00	0.44
318.20	0.44
318.40	0.44
318.60	0.44
318.80	0.44
319.00	0.44
319.20	0.44
319.40	0.44
319.60	0.44
319.80	0.44
320.00	0.44
320.20	0.44
320.40	0.44
320.60	0.44
320.80	0.44
321.00	0.44
321.20	0.44
321.40	0.44
321.60	0.44
321.80	0.44
322.00	0.44
322.20	0.44
322.40	0.44
322.60	0.44
322.80	0.44
323.00	0.44
323.20	0.44
323.40	0.44
323.60	0.44
323.80	0.44
324.00	0.44
324.20	0.44
324.40	0.44
324.60	0.44
324.80	0.44
325.00	0.44
325.20	0.44
325.40	0.44
325.60	0.44
325.80	0.44
326.00	0.44
326.20	0.44
326.40	0.44
326.60	0.44
326.80	0.44
327.00	0.44
327.20	0.44

327.40	0.44
327.60	0.44
327.80	0.44
328.00	0.44
328.20	0.44
328.40	0.44
328.60	0.44
328.80	0.44
329.00	0.44
329.20	0.44
329.40	0.44
329.60	0.44
329.80	0.44
330.00	0.44
330.20	0.44
330.40	0.44
330.60	0.44
330.80	0.44
331.00	0.44
331.20	0.44
331.40	0.44
331.60	0.44
331.80	0.44
332.00	0.44
332.20	0.44
332.40	0.44
332.60	0.44
332.80	0.44
333.00	0.44
333.20	0.44
333.40	0.44
333.60	0.44
333.80	0.44
334.00	0.44
334.20	0.44
334.40	0.44
334.60	0.44
334.80	0.44
335.00	0.44
335.20	0.44
335.40	0.44
335.60	0.44
335.80	0.44
336.00	0.44
336.20	0.44
336.40	0.44
336.60	0.44
336.80	0.44
337.00	0.44
337.20	0.44
337.40	0.44
337.60	0.44
337.80	0.44
338.00	0.44
338.20	0.44
338.40	0.44
338.60	0.44
338.80	0.44
339.00	0.44
339.20	0.44
339.40	0.44
339.60	0.44
339.80	0.44
340.00	0.44
340.20	0.44
340.40	0.44

340.60	0.44
340.80	0.44
341.00	0.44
341.20	0.44
341.40	0.44
341.60	0.44
341.80	0.44
342.00	0.44
342.20	0.44
342.40	0.44
342.60	0.44
342.80	0.44
343.00	0.44
343.20	0.44
343.40	0.44
343.60	0.44
343.80	0.44
344.00	0.44
344.20	0.44
344.40	0.45
344.60	0.45
344.80	0.45
345.00	0.45
345.20	0.45
345.40	0.45
345.60	0.45
345.80	0.45
346.00	0.45
346.20	0.45
346.40	0.45
346.60	0.45
346.80	0.45
347.00	0.45
347.20	0.45
347.40	0.45
347.60	0.45
347.80	0.45
348.00	0.45
348.20	0.45
348.40	0.45
348.60	0.45
348.80	0.45
349.00	0.45
349.20	0.45
349.40	0.45
349.60	0.45
349.80	0.45
350.00	0.45
350.20	0.45
350.40	0.45
350.60	0.45
350.80	0.45
351.00	0.45
351.20	0.45
351.40	0.45
351.60	0.45
351.80	0.45
352.00	0.45
352.20	0.45
352.40	0.45
352.60	0.45
352.80	0.45
353.00	0.45
353.20	0.45
353.40	0.45
353.60	0.45

353.80	0.45
354.00	0.45
354.20	0.45
354.40	0.45
354.60	0.45
354.80	0.45
355.00	0.45
355.20	0.45
355.40	0.45
355.60	0.45
355.80	0.45
356.00	0.45
356.20	0.45
356.40	0.45
356.60	0.45
356.80	0.45
357.00	0.45
357.20	0.45
357.40	0.45
357.60	0.45
357.80	0.45
358.00	0.45
358.20	0.45
358.40	0.45
358.60	0.45
358.80	0.45
359.00	0.45
359.20	0.45
359.40	0.45
359.60	0.45
359.80	0.45
360.00	0.45
360.20	0.45
360.40	0.45
360.60	0.45
360.80	0.45
361.00	0.45
361.20	0.45
361.40	0.45
361.60	0.45
361.80	0.45
362.00	0.45
362.20	0.45
362.40	0.45
362.60	0.45
362.80	0.45
363.00	0.45
363.20	0.45
363.40	0.45
363.60	0.45
363.80	0.45
364.00	0.45
364.20	0.45
364.40	0.45
364.60	0.45
364.80	0.45
365.00	0.45
365.20	0.45
365.40	0.45
365.60	0.45
365.80	0.45
366.00	0.45
366.20	0.45
366.40	0.45
366.60	0.45
366.80	0.45

367.00	0.45
367.20	0.45
367.40	0.45
367.60	0.45
367.80	0.45
368.00	0.45
368.20	0.45
368.40	0.45
368.60	0.45
368.80	0.45
369.00	0.45
369.20	0.45
369.40	0.45
369.60	0.45
369.80	0.46
370.00	0.46
370.20	0.46
370.40	0.46
370.60	0.46
370.80	0.46
371.00	0.46
371.20	0.46
371.40	0.46
371.60	0.46
371.80	0.46
372.00	0.46
372.20	0.46
372.40	0.46
372.60	0.46
372.80	0.46
373.00	0.46
373.20	0.46
373.40	0.46
373.60	0.46
373.80	0.46
374.00	0.46
374.20	0.46
374.40	0.46
374.60	0.46
374.80	0.46
375.00	0.46
375.20	0.46
375.40	0.46
375.60	0.46
375.80	0.46
376.00	0.46
376.20	0.46
376.40	0.46
376.60	0.46
376.80	0.46
377.00	0.46
377.20	0.46
377.40	0.46
377.60	0.46
377.80	0.46
378.00	0.46
378.20	0.46
378.40	0.46
378.60	0.46
378.80	0.46
379.00	0.46
379.20	0.46
379.40	0.46
379.60	0.46
379.80	0.46
380.00	0.46

380.20	0.46
380.40	0.46
380.60	0.46
380.80	0.46
381.00	0.46
381.20	0.46
381.40	0.46
381.60	0.46
381.80	0.46
382.00	0.46
382.20	0.46
382.40	0.46
382.60	0.46
382.80	0.46
383.00	0.46
383.20	0.46
383.40	0.46
383.60	0.46
383.80	0.46
384.00	0.46
384.20	0.46
384.40	0.46
384.60	0.46
384.80	0.46
385.00	0.46
385.20	0.46
385.40	0.46
385.60	0.46
385.80	0.46
386.00	0.46
386.20	0.46
386.40	0.46
386.60	0.46
386.80	0.46
387.00	0.46
387.20	0.46
387.40	0.46
387.60	0.46
387.80	0.46
388.00	0.46
388.20	0.46
388.40	0.46
388.60	0.46
388.80	0.46
389.00	0.46
389.20	0.46
389.40	0.46
389.60	0.46
389.80	0.46
390.00	0.46
390.20	0.46
390.40	0.46
390.60	0.46
390.80	0.46
391.00	0.46
391.20	0.46
391.40	0.46
391.60	0.46
391.80	0.46
392.00	0.46
392.20	0.46
392.40	0.46
392.60	0.46
392.80	0.46
393.00	0.46
393.20	0.46

393.40	0.46
393.60	0.46
393.80	0.47
394.00	0.47
394.20	0.47
394.40	0.47
394.60	0.47
394.80	0.47
395.00	0.47
395.20	0.47
395.40	0.47
395.60	0.47
395.80	0.47
396.00	0.47
396.20	0.47
396.40	0.47
396.60	0.47
396.80	0.47
397.00	0.47
397.20	0.47
397.40	0.47
397.60	0.47
397.80	0.47
398.00	0.47
398.20	0.47
398.40	0.47
398.60	0.47
398.80	0.47
399.00	0.47
399.20	0.47
399.40	0.47
399.60	0.47
399.80	0.47
400.00	0.47
400.20	0.47
400.40	0.47
400.60	0.47
400.80	0.47
401.00	0.47
401.20	0.47
401.40	0.47
401.60	0.47
401.80	0.47
402.00	0.47
402.20	0.47
402.40	0.47
402.60	0.47
402.80	0.47
403.00	0.47
403.20	0.47
403.40	0.47
403.60	0.47
403.80	0.47
404.00	0.47
404.20	0.47
404.40	0.47
404.60	0.47
404.80	0.47
405.00	0.47
405.20	0.47
405.40	0.47
405.60	0.47
405.80	0.47
406.00	0.47
406.20	0.47
406.40	0.47

406.60	0.47
406.80	0.47
407.00	0.47
407.20	0.47
407.40	0.47
407.60	0.47
407.80	0.47
408.00	0.47
408.20	0.47
408.40	0.47
408.60	0.47
408.80	0.47
409.00	0.47
409.20	0.47
409.40	0.47
409.60	0.47
409.80	0.47
410.00	0.47
410.20	0.47
410.40	0.47
410.60	0.47
410.80	0.47
411.00	0.47
411.20	0.47
411.40	0.47
411.60	0.47
411.80	0.47
412.00	0.47
412.20	0.47
412.40	0.47
412.60	0.47
412.80	0.47
413.00	0.47
413.20	0.47
413.40	0.47
413.60	0.47
413.80	0.47
414.00	0.47
414.20	0.47
414.40	0.47
414.60	0.47
414.80	0.47
415.00	0.47
415.20	0.47
415.40	0.47
415.60	0.47
415.80	0.47
416.00	0.47
416.20	0.47
416.40	0.47
416.60	0.47
416.80	0.47
417.00	0.48
417.20	0.48
417.40	0.48
417.60	0.48
417.80	0.48
418.00	0.48
418.20	0.48
418.40	0.48
418.60	0.48
418.80	0.48
419.00	0.48
419.20	0.48
419.40	0.48
419.60	0.48

419.80	0.48
420.00	0.48
420.20	0.48
420.40	0.48
420.60	0.48
420.80	0.48
421.00	0.48
421.20	0.48
421.40	0.48
421.60	0.48
421.80	0.48
422.00	0.48
422.20	0.48
422.40	0.48
422.60	0.48
422.80	0.48
423.00	0.48
423.20	0.48
423.40	0.48
423.60	0.48
423.80	0.48
424.00	0.48
424.20	0.48
424.40	0.48
424.60	0.48
424.80	0.48
425.00	0.48
425.20	0.48
425.40	0.48
425.60	0.48
425.80	0.48
426.00	0.48
426.20	0.48
426.40	0.48
426.60	0.48
426.80	0.48
427.00	0.48
427.20	0.48
427.40	0.48
427.60	0.48
427.80	0.48
428.00	0.48
428.20	0.48
428.40	0.48
428.60	0.48
428.80	0.48
429.00	0.48
429.20	0.48
429.40	0.48
429.60	0.48
429.80	0.48
430.00	0.48
430.20	0.48
430.40	0.48
430.60	0.48
430.80	0.48
431.00	0.48
431.20	0.48
431.40	0.48
431.60	0.48
431.80	0.48
432.00	0.48
432.20	0.48
432.40	0.48
432.60	0.48
432.80	0.48

433.00	0.48
433.20	0.48
433.40	0.48
433.60	0.48
433.80	0.48
434.00	0.48
434.20	0.48
434.40	0.48
434.60	0.48
434.80	0.48
435.00	0.48
435.20	0.48
435.40	0.48
435.60	0.48
435.80	0.48
436.00	0.48
436.20	0.48
436.40	0.48
436.60	0.48
436.80	0.48
437.00	0.48
437.20	0.48
437.40	0.48
437.60	0.48
437.80	0.48
438.00	0.48
438.20	0.48
438.40	0.48
438.60	0.49
438.80	0.49
439.00	0.49
439.20	0.49
439.40	0.49
439.60	0.49
439.80	0.49
440.00	0.49
440.20	0.49
440.40	0.49
440.60	0.49
440.80	0.49
441.00	0.49
441.20	0.49
441.40	0.49
441.60	0.49
441.80	0.49
442.00	0.49
442.20	0.49
442.40	0.49
442.60	0.49
442.80	0.49
443.00	0.49
443.20	0.49
443.40	0.49
443.60	0.49
443.80	0.49
444.00	0.49
444.20	0.49
444.40	0.49
444.60	0.49
444.80	0.49
445.00	0.49
445.20	0.49
445.40	0.49
445.60	0.49
445.80	0.49
446.00	0.49

446.20	0.49
446.40	0.49
446.60	0.49
446.80	0.49
447.00	0.49
447.20	0.49
447.40	0.49
447.60	0.49
447.80	0.49
448.00	0.49
448.20	0.49
448.40	0.49
448.60	0.49
448.80	0.49
449.00	0.49
449.20	0.49
449.40	0.49
449.60	0.49
449.80	0.49
450.00	0.49
450.20	0.49
450.40	0.49
450.60	0.49
450.80	0.49
451.00	0.49
451.20	0.49
451.40	0.49
451.60	0.49
451.80	0.49
452.00	0.49
452.20	0.49
452.40	0.49
452.60	0.49
452.80	0.49
453.00	0.49
453.20	0.49
453.40	0.49
453.60	0.49
453.80	0.49
454.00	0.49
454.20	0.49
454.40	0.49
454.60	0.49
454.80	0.49
455.00	0.49
455.20	0.49
455.40	0.49
455.60	0.49
455.80	0.49
456.00	0.49
456.20	0.49
456.40	0.49
456.60	0.49
456.80	0.49
457.00	0.49
457.20	0.49
457.40	0.49
457.60	0.49
457.80	0.49
458.00	0.49
458.20	0.49
458.40	0.49
458.60	0.49
458.80	0.50
459.00	0.50
459.20	0.50

459.40	0.50
459.60	0.50
459.80	0.50
460.00	0.50
460.20	0.50
460.40	0.50
460.60	0.50
460.80	0.50
461.00	0.50
461.20	0.50
461.40	0.50
461.60	0.50
461.80	0.50
462.00	0.50
462.20	0.50
462.40	0.50
462.60	0.50
462.80	0.50
463.00	0.50
463.20	0.50
463.40	0.50
463.60	0.50
463.80	0.50
464.00	0.50
464.20	0.50
464.40	0.50
464.60	0.50
464.80	0.50
465.00	0.50
465.20	0.50
465.40	0.50
465.60	0.50
465.80	0.50
466.00	0.50
466.20	0.50
466.40	0.50
466.60	0.50
466.80	0.50
467.00	0.50
467.20	0.50
467.40	0.50
467.60	0.50
467.80	0.50
468.00	0.50
468.20	0.50
468.40	0.50
468.60	0.50
468.80	0.50
469.00	0.50
469.20	0.50
469.40	0.50
469.60	0.50
469.80	0.50
470.00	0.50
470.20	0.50
470.40	0.50
470.60	0.50
470.80	0.50
471.00	0.50
471.20	0.50
471.40	0.50
471.60	0.50
471.80	0.50
472.00	0.50
472.20	0.50
472.40	0.50

472.60	0.50
472.80	0.50
473.00	0.50
473.20	0.50
473.40	0.50
473.60	0.50
473.80	0.50
474.00	0.50
474.20	0.50
474.40	0.50
474.60	0.50
474.80	0.50
475.00	0.50
475.20	0.50
475.40	0.50
475.60	0.50
475.80	0.50
476.00	0.50
476.20	0.50
476.40	0.50
476.60	0.50
476.80	0.50
477.00	0.50
477.20	0.50
477.40	0.50
477.60	0.50
477.80	0.50
478.00	0.50
478.20	0.50
478.40	0.51
478.60	0.51
478.80	0.51
479.00	0.51
479.20	0.51
479.40	0.51
479.60	0.51
479.80	0.51
480.00	0.51
480.20	0.51
480.40	0.51
480.60	0.51
480.80	0.51
481.00	0.51
481.20	0.51
481.40	0.51
481.60	0.51
481.80	0.51
482.00	0.51
482.20	0.51
482.40	0.51
482.60	0.51
482.80	0.51
483.00	0.51
483.20	0.51
483.40	0.51
483.60	0.51
483.80	0.51
484.00	0.51
484.20	0.51
484.40	0.51
484.60	0.51
484.80	0.51
485.00	0.51
485.20	0.51
485.40	0.51
485.60	0.51

485.80	0.51
486.00	0.51
486.20	0.51
486.40	0.51
486.60	0.51
486.80	0.51
487.00	0.51
487.20	0.51
487.40	0.51
487.60	0.51
487.80	0.51
488.00	0.51
488.20	0.51
488.40	0.51
488.60	0.51
488.80	0.51
489.00	0.51
489.20	0.51
489.40	0.51
489.60	0.51
489.80	0.51
490.00	0.51
490.20	0.51
490.40	0.51
490.60	0.51
490.80	0.51
491.00	0.51
491.20	0.51
491.40	0.51
491.60	0.51
491.80	0.51
492.00	0.51
492.20	0.51
492.40	0.51
492.60	0.51
492.80	0.51
493.00	0.51
493.20	0.51
493.40	0.51
493.60	0.51
493.80	0.51
494.00	0.51
494.20	0.51
494.40	0.51
494.60	0.51
494.80	0.51
495.00	0.51
495.20	0.51
495.40	0.51
495.60	0.51
495.80	0.51
496.00	0.51
496.20	0.51
496.40	0.51
496.60	0.51
496.80	0.52
497.00	0.52
497.20	0.52
497.40	0.52
497.60	0.52
497.80	0.52
498.00	0.52
498.20	0.52
498.40	0.52
498.60	0.52
498.80	0.52

499.00	0.52
499.20	0.52
499.40	0.52
499.60	0.52
499.80	0.52
500.00	0.52
500.20	0.52
500.40	0.52
500.60	0.52
500.80	0.52
501.00	0.52
501.20	0.52
501.40	0.52
501.60	0.52
501.80	0.52
502.00	0.52
502.20	0.52
502.40	0.52
502.60	0.52
502.80	0.52
503.00	0.52
503.20	0.52
503.40	0.52
503.60	0.52
503.80	0.52
504.00	0.52
504.20	0.52
504.40	0.52
504.60	0.52
504.80	0.52
505.00	0.52
505.20	0.52
505.40	0.52
505.60	0.52
505.80	0.52
506.00	0.52
506.20	0.52
506.40	0.52
506.60	0.52
506.80	0.52
507.00	0.52
507.20	0.52
507.40	0.52
507.60	0.52
507.80	0.52
508.00	0.52
508.20	0.52
508.40	0.52
508.60	0.52
508.80	0.52
509.00	0.52
509.20	0.52
509.40	0.52
509.60	0.52
509.80	0.52
510.00	0.52
510.20	0.52
510.40	0.52
510.60	0.52
510.80	0.52
511.00	0.52
511.20	0.52
511.40	0.52
511.60	0.52
511.80	0.52
512.00	0.52

512.20	0.52
512.40	0.52
512.60	0.52
512.80	0.52
513.00	0.52
513.20	0.52
513.40	0.52
513.60	0.52
513.80	0.52
514.00	0.52
514.20	0.52
514.40	0.52
514.60	0.53
514.80	0.53
515.00	0.53
515.20	0.53
515.40	0.53
515.60	0.53
515.80	0.53
516.00	0.53
516.20	0.53
516.40	0.53
516.60	0.53
516.80	0.53
517.00	0.53
517.20	0.53
517.40	0.53
517.60	0.53
517.80	0.53
518.00	0.53
518.20	0.53
518.40	0.53
518.60	0.53
518.80	0.53
519.00	0.53
519.20	0.53
519.40	0.53
519.60	0.53
519.80	0.53
520.00	0.53
520.20	0.53
520.40	0.53
520.60	0.53
520.80	0.53
521.00	0.53
521.20	0.53
521.40	0.53
521.60	0.53
521.80	0.53
522.00	0.53
522.20	0.53
522.40	0.53
522.60	0.53
522.80	0.53
523.00	0.53
523.20	0.53
523.40	0.53
523.60	0.53
523.80	0.53
524.00	0.53
524.20	0.53
524.40	0.53
524.60	0.53
524.80	0.53
525.00	0.53
525.20	0.53

525.40	0.53
525.60	0.53
525.80	0.53
526.00	0.53
526.20	0.53
526.40	0.53
526.60	0.53
526.80	0.53
527.00	0.53
527.20	0.53
527.40	0.53
527.60	0.53
527.80	0.53
528.00	0.53
528.20	0.53
528.40	0.53
528.60	0.53
528.80	0.53
529.00	0.53
529.20	0.53
529.40	0.53
529.60	0.53
529.80	0.53
530.00	0.53
530.20	0.53
530.40	0.53
530.60	0.53
530.80	0.53
531.00	0.53
531.20	0.53
531.40	0.54
531.60	0.54
531.80	0.54
532.00	0.54
532.20	0.54
532.40	0.54
532.60	0.54
532.80	0.54
533.00	0.54
533.20	0.54
533.40	0.54
533.60	0.54
533.80	0.54
534.00	0.54
534.20	0.54
534.40	0.54
534.60	0.54
534.80	0.54
535.00	0.54
535.20	0.54
535.40	0.54
535.60	0.54
535.80	0.54
536.00	0.54
536.20	0.54
536.40	0.54
536.60	0.54
536.80	0.54
537.00	0.54
537.20	0.54
537.40	0.54
537.60	0.54
537.80	0.54
538.00	0.54
538.20	0.54
538.40	0.54

538.60	0.54
538.80	0.54
539.00	0.54
539.20	0.54
539.40	0.54
539.60	0.54
539.80	0.54
540.00	0.54
540.20	0.54
540.40	0.54
540.60	0.54
540.80	0.54
541.00	0.54
541.20	0.54
541.40	0.54
541.60	0.54
541.80	0.54
542.00	0.54
542.20	0.54
542.40	0.54
542.60	0.54
542.80	0.54
543.00	0.54
543.20	0.54
543.40	0.54
543.60	0.54
543.80	0.54
544.00	0.54
544.20	0.54
544.40	0.54
544.60	0.54
544.80	0.54
545.00	0.54
545.20	0.54
545.40	0.54
545.60	0.54
545.80	0.54
546.00	0.54
546.20	0.54
546.40	0.54
546.60	0.54
546.80	0.54
547.00	0.54
547.20	0.54
547.40	0.55
547.60	0.55
547.80	0.55
548.00	0.55
548.20	0.55
548.40	0.55
548.60	0.55
548.80	0.55
549.00	0.55
549.20	0.55
549.40	0.55
549.60	0.55
549.80	0.55
550.00	0.55
550.20	0.55
550.40	0.55
550.60	0.55
550.80	0.55
551.00	0.55
551.20	0.55
551.40	0.55
551.60	0.55

551.80	0.55
552.00	0.55
552.20	0.55
552.40	0.55
552.60	0.55
552.80	0.55
553.00	0.55
553.20	0.55
553.40	0.55
553.60	0.55
553.80	0.55
554.00	0.55
554.20	0.55
554.40	0.55
554.60	0.55
554.80	0.55
555.00	0.55
555.20	0.55
555.40	0.55
555.60	0.55
555.80	0.55
556.00	0.55
556.20	0.55
556.40	0.55
556.60	0.55
556.80	0.55
557.00	0.55
557.20	0.55
557.40	0.55
557.60	0.55
557.80	0.55
558.00	0.55
558.20	0.55
558.40	0.55
558.60	0.55
558.80	0.55
559.00	0.55
559.20	0.55
559.40	0.55
559.60	0.55
559.80	0.55
560.00	0.55
560.20	0.55
560.40	0.55
560.60	0.55
560.80	0.55
561.00	0.55
561.20	0.55
561.40	0.55
561.60	0.55
561.80	0.55
562.00	0.55
562.20	0.55
562.40	0.55
562.60	0.55
562.80	0.56
563.00	0.56
563.20	0.56
563.40	0.56
563.60	0.56
563.80	0.56
564.00	0.56
564.20	0.56
564.40	0.56
564.60	0.56
564.80	0.56

565.00	0.56
565.20	0.56
565.40	0.56
565.60	0.56
565.80	0.56
566.00	0.56
566.20	0.56
566.40	0.56
566.60	0.56
566.80	0.56
567.00	0.56
567.20	0.56
567.40	0.56
567.60	0.56
567.80	0.56
568.00	0.56
568.20	0.56
568.40	0.56
568.60	0.56
568.80	0.56
569.00	0.56
569.20	0.56
569.40	0.56
569.60	0.56
569.80	0.56
570.00	0.56
570.20	0.56
570.40	0.56
570.60	0.56
570.80	0.56
571.00	0.56
571.20	0.56
571.40	0.56
571.60	0.56
571.80	0.56
572.00	0.56
572.20	0.56
572.40	0.56
572.60	0.56
572.80	0.56
573.00	0.56
573.20	0.56
573.40	0.56
573.60	0.56
573.80	0.56
574.00	0.56
574.20	0.56
574.40	0.56
574.60	0.56
574.80	0.56
575.00	0.56
575.20	0.56
575.40	0.56
575.60	0.56
575.80	0.56
576.00	0.56
576.20	0.56
576.40	0.56
576.60	0.56
576.80	0.56
577.00	0.56
577.20	0.56
577.40	0.56
577.60	0.57
577.80	0.57
578.00	0.57

578.20	0.57
578.40	0.57
578.60	0.57
578.80	0.57
579.00	0.57
579.20	0.57
579.40	0.57
579.60	0.57
579.80	0.57
580.00	0.57
580.20	0.57
580.40	0.57
580.60	0.57
580.80	0.57
581.00	0.57
581.20	0.57
581.40	0.57
581.60	0.57
581.80	0.57
582.00	0.57
582.20	0.57
582.40	0.57
582.60	0.57
582.80	0.57
583.00	0.57
583.20	0.57
583.40	0.57
583.60	0.57
583.80	0.57
584.00	0.57
584.20	0.57
584.40	0.57
584.60	0.57
584.80	0.57
585.00	0.57
585.20	0.57
585.40	0.57
585.60	0.57
585.80	0.57
586.00	0.57
586.20	0.57
586.40	0.57
586.60	0.57
586.80	0.57
587.00	0.57
587.20	0.57
587.40	0.57
587.60	0.57
587.80	0.57
588.00	0.57
588.20	0.57
588.40	0.57
588.60	0.57
588.80	0.57
589.00	0.57
589.20	0.57
589.40	0.57
589.60	0.57
589.80	0.57
590.00	0.57
590.20	0.57
590.40	0.57
590.60	0.57
590.80	0.57
591.00	0.57
591.20	0.57

591.40	0.57
591.60	0.58
591.80	0.58
592.00	0.58
592.20	0.58
592.40	0.58
592.60	0.58
592.80	0.58
593.00	0.58
593.20	0.58
593.40	0.58
593.60	0.58
593.80	0.58
594.00	0.58
594.20	0.58
594.40	0.58
594.60	0.58
594.80	0.58
595.00	0.58
595.20	0.58
595.40	0.58
595.60	0.58
595.80	0.58
596.00	0.58
596.20	0.58
596.40	0.58
596.60	0.58
596.80	0.58
597.00	0.58
597.20	0.58
597.40	0.58
597.60	0.58
597.80	0.58
598.00	0.58
598.20	0.58
598.40	0.58
598.60	0.58
598.80	0.58
599.00	0.58
599.20	0.58
599.40	0.58
599.60	0.58
599.80	0.58
600.00	0.58
600.20	0.58
600.40	0.58
600.60	0.58
600.80	0.58
601.00	0.58
601.20	0.58
601.40	0.58
601.60	0.58
601.80	0.58
602.00	0.58
602.20	0.58
602.40	0.58
602.60	0.58
602.80	0.58
603.00	0.58
603.20	0.58
603.40	0.58
603.60	0.58
603.80	0.58
604.00	0.58
604.20	0.58
604.40	0.58

604.60	0.58
604.80	0.58
605.00	0.59
605.20	0.59
605.40	0.59
605.60	0.59
605.80	0.59
606.00	0.59
606.20	0.59
606.40	0.59
606.60	0.59
606.80	0.59
607.00	0.59
607.20	0.59
607.40	0.59
607.60	0.59
607.80	0.59
608.00	0.59
608.20	0.59
608.40	0.59
608.60	0.59
608.80	0.59
609.00	0.59
609.20	0.59
609.40	0.59
609.60	0.59
609.80	0.59
610.00	0.59
610.20	0.59
610.40	0.59
610.60	0.59
610.80	0.59
611.00	0.59
611.20	0.59
611.40	0.59
611.60	0.59
611.80	0.59
612.00	0.59
612.20	0.59
612.40	0.59
612.60	0.59
612.80	0.59
613.00	0.59
613.20	0.59
613.40	0.59
613.60	0.59
613.80	0.59
614.00	0.59
614.20	0.59
614.40	0.59
614.60	0.59
614.80	0.59
615.00	0.59
615.20	0.59
615.40	0.59
615.60	0.59
615.80	0.59
616.00	0.59
616.20	0.59
616.40	0.59
616.60	0.59
616.80	0.59
617.00	0.59
617.20	0.59
617.40	0.59
617.60	0.59

617.80	0.59
618.00	0.60
618.20	0.60
618.40	0.60
618.60	0.60
618.80	0.60
619.00	0.60
619.20	0.60
619.40	0.60
619.60	0.60
619.80	0.60
620.00	0.60
620.20	0.60
620.40	0.60
620.60	0.60
620.80	0.60
621.00	0.60
621.20	0.60
621.40	0.60
621.60	0.60
621.80	0.60
622.00	0.60
622.20	0.60
622.40	0.60
622.60	0.60
622.80	0.60
623.00	0.60
623.20	0.60
623.40	0.60
623.60	0.60
623.80	0.60
624.00	0.60
624.20	0.60
624.40	0.60
624.60	0.60
624.80	0.60
625.00	0.60
625.20	0.60
625.40	0.60
625.60	0.60
625.80	0.60
626.00	0.60
626.20	0.60
626.40	0.60
626.60	0.60
626.80	0.60
627.00	0.60
627.20	0.60
627.40	0.60
627.60	0.60
627.80	0.60
628.00	0.60
628.20	0.60
628.40	0.60
628.60	0.60
628.80	0.60
629.00	0.60
629.20	0.60
629.40	0.60
629.60	0.60
629.80	0.60
630.00	0.60
630.20	0.61
630.40	0.61
630.60	0.61
630.80	0.61

631.00	0.61
631.20	0.61
631.40	0.61
631.60	0.61
631.80	0.61
632.00	0.61
632.20	0.61
632.40	0.61
632.60	0.61
632.80	0.61
633.00	0.61
633.20	0.61
633.40	0.61
633.60	0.61
633.80	0.61
634.00	0.61
634.20	0.61
634.40	0.61
634.60	0.61
634.80	0.61
635.00	0.61
635.20	0.61
635.40	0.61
635.60	0.61
635.80	0.61
636.00	0.61
636.20	0.61
636.40	0.61
636.60	0.61
636.80	0.61
637.00	0.61
637.20	0.61
637.40	0.61
637.60	0.61
637.80	0.61
638.00	0.61
638.20	0.61
638.40	0.61
638.60	0.61
638.80	0.61
639.00	0.61
639.20	0.61
639.40	0.61
639.60	0.61
639.80	0.61
640.00	0.61
640.20	0.61
640.40	0.61
640.60	0.61
640.80	0.61
641.00	0.61
641.20	0.61
641.40	0.61
641.60	0.61
641.80	0.61
642.00	0.62
642.20	0.62
642.40	0.62
642.60	0.62
642.80	0.62
643.00	0.62
643.20	0.62
643.40	0.62
643.60	0.62
643.80	0.62
644.00	0.62

644.20	0.62
644.40	0.62
644.60	0.62
644.80	0.62
645.00	0.62
645.20	0.62
645.40	0.62
645.60	0.62
645.80	0.62
646.00	0.62
646.20	0.62
646.40	0.62
646.60	0.62
646.80	0.62
647.00	0.62
647.20	0.62
647.40	0.62
647.60	0.62
647.80	0.62
648.00	0.62
648.20	0.62
648.40	0.62
648.60	0.62
648.80	0.62
649.00	0.62
649.20	0.62
649.40	0.62
649.60	0.62
649.80	0.62
650.00	0.62
650.20	0.62
650.40	0.62
650.60	0.62
650.80	0.62
651.00	0.62
651.20	0.62
651.40	0.62
651.60	0.62
651.80	0.62
652.00	0.62
652.20	0.62
652.40	0.62
652.60	0.62
652.80	0.62
653.00	0.62
653.20	0.62
653.40	0.63
653.60	0.63
653.80	0.63
654.00	0.63
654.20	0.63
654.40	0.63
654.60	0.63
654.80	0.63
655.00	0.63
655.20	0.63
655.40	0.63
655.60	0.63
655.80	0.63
656.00	0.63
656.20	0.63
656.40	0.63
656.60	0.63
656.80	0.63
657.00	0.63
657.20	0.63

657.40	0.63
657.60	0.63
657.80	0.63
658.00	0.63
658.20	0.63
658.40	0.63
658.60	0.63
658.80	0.63
659.00	0.63
659.20	0.63
659.40	0.63
659.60	0.63
659.80	0.63
660.00	0.63
660.20	0.63
660.40	0.63
660.60	0.63
660.80	0.63
661.00	0.63
661.20	0.63
661.40	0.63
661.60	0.63
661.80	0.63
662.00	0.63
662.20	0.63
662.40	0.63
662.60	0.63
662.80	0.63
663.00	0.63
663.20	0.63
663.40	0.63
663.60	0.63
663.80	0.63
664.00	0.63
664.20	0.64
664.40	0.64
664.60	0.64
664.80	0.64
665.00	0.64
665.20	0.64
665.40	0.64
665.60	0.64
665.80	0.64
666.00	0.64
666.20	0.64
666.40	0.64
666.60	0.64
666.80	0.64
667.00	0.64
667.20	0.64
667.40	0.64
667.60	0.64
667.80	0.64
668.00	0.64
668.20	0.64
668.40	0.64
668.60	0.64
668.80	0.64
669.00	0.64
669.20	0.64
669.40	0.64
669.60	0.64
669.80	0.64
670.00	0.64
670.20	0.64
670.40	0.64

670.60	0.64
670.80	0.64
671.00	0.64
671.20	0.64
671.40	0.64
671.60	0.64
671.80	0.64
672.00	0.64
672.20	0.64
672.40	0.64
672.60	0.64
672.80	0.64
673.00	0.64
673.20	0.64
673.40	0.64
673.60	0.64
673.80	0.64
674.00	0.64
674.20	0.64
674.40	0.64
674.60	0.64
674.80	0.65
675.00	0.65
675.20	0.65
675.40	0.65
675.60	0.65
675.80	0.65
676.00	0.65
676.20	0.65
676.40	0.65
676.60	0.65
676.80	0.65
677.00	0.65
677.20	0.65
677.40	0.65
677.60	0.65
677.80	0.65
678.00	0.65
678.20	0.65
678.40	0.65
678.60	0.65
678.80	0.65
679.00	0.65
679.20	0.65
679.40	0.65
679.60	0.65
679.80	0.65
680.00	0.65
680.20	0.65
680.40	0.65
680.60	0.65
680.80	0.65
681.00	0.65
681.20	0.65
681.40	0.65
681.60	0.65
681.80	0.65
682.00	0.65
682.20	0.65
682.40	0.65
682.60	0.65
682.80	0.65
683.00	0.65
683.20	0.65
683.40	0.65
683.60	0.65

683.80	0.65
684.00	0.65
684.20	0.65
684.40	0.65
684.60	0.65
684.80	0.66
685.00	0.66
685.20	0.66
685.40	0.66
685.60	0.66
685.80	0.66
686.00	0.66
686.20	0.66
686.40	0.66
686.60	0.66
686.80	0.66
687.00	0.66
687.20	0.66
687.40	0.66
687.60	0.66
687.80	0.66
688.00	0.66
688.20	0.66
688.40	0.66
688.60	0.66
688.80	0.66
689.00	0.66
689.20	0.66
689.40	0.66
689.60	0.66
689.80	0.66
690.00	0.66
690.20	0.66
690.40	0.66
690.60	0.66
690.80	0.66
691.00	0.66
691.20	0.66
691.40	0.66
691.60	0.66
691.80	0.66
692.00	0.66
692.20	0.66
692.40	0.66
692.60	0.66
692.80	0.66
693.00	0.66
693.20	0.66
693.40	0.66
693.60	0.66
693.80	0.66
694.00	0.66
694.20	0.66
694.40	0.66
694.60	0.67
694.80	0.67
695.00	0.67
695.20	0.67
695.40	0.67
695.60	0.67
695.80	0.67
696.00	0.67
696.20	0.67
696.40	0.67
696.60	0.67
696.80	0.67

697.00	0.67
697.20	0.67
697.40	0.67
697.60	0.67
697.80	0.67
698.00	0.67
698.20	0.67
698.40	0.67
698.60	0.67
698.80	0.67
699.00	0.67
699.20	0.67
699.40	0.67
699.60	0.67
699.80	0.67
700.00	0.67
700.20	0.67
700.40	0.67
700.60	0.67
700.80	0.67
701.00	0.67
701.20	0.67
701.40	0.67
701.60	0.67
701.80	0.67
702.00	0.67
702.20	0.67
702.40	0.67
702.60	0.67
702.80	0.67
703.00	0.67
703.20	0.67
703.40	0.67
703.60	0.67
703.80	0.67
704.00	0.68
704.20	0.68
704.40	0.68
704.60	0.68
704.80	0.68
705.00	0.68
705.20	0.68
705.40	0.68
705.60	0.68
705.80	0.68
706.00	0.68
706.20	0.68
706.40	0.68
706.60	0.68
706.80	0.68
707.00	0.68
707.20	0.68
707.40	0.68
707.60	0.68
707.80	0.68
708.00	0.68
708.20	0.68
708.40	0.68
708.60	0.68
708.80	0.68
709.00	0.68
709.20	0.68
709.40	0.68
709.60	0.68
709.80	0.68
710.00	0.68

710.20	0.68
710.40	0.68
710.60	0.68
710.80	0.68
711.00	0.68
711.20	0.68
711.40	0.68
711.60	0.68
711.80	0.68
712.00	0.68
712.20	0.68
712.40	0.68
712.60	0.68
712.80	0.68
713.00	0.69
713.20	0.69
713.40	0.69
713.60	0.69
713.80	0.69
714.00	0.69
714.20	0.69
714.40	0.69
714.60	0.69
714.80	0.69
715.00	0.69
715.20	0.69
715.40	0.69
715.60	0.69
715.80	0.69
716.00	0.69
716.20	0.69
716.40	0.69
716.60	0.69
716.80	0.69
717.00	0.69
717.20	0.69
717.40	0.69
717.60	0.69
717.80	0.69
718.00	0.69
718.20	0.69
718.40	0.69
718.60	0.69
718.80	0.69
719.00	0.69
719.20	0.69
719.40	0.69
719.60	0.69
719.80	0.69
720.00	0.69
720.20	0.69
720.40	0.69
720.60	0.69
720.80	0.69
721.00	0.69
721.20	0.69
721.40	0.69
721.60	0.69
721.80	0.70
722.00	0.70
722.20	0.70
722.40	0.70
722.60	0.70
722.80	0.70
723.00	0.70
723.20	0.70

723.40	0.70
723.60	0.70
723.80	0.70
724.00	0.70
724.20	0.70
724.40	0.70
724.60	0.70
724.80	0.70
725.00	0.70
725.20	0.70
725.40	0.70
725.60	0.70
725.80	0.70
726.00	0.70
726.20	0.70
726.40	0.70
726.60	0.70
726.80	0.70
727.00	0.70
727.20	0.70
727.40	0.70
727.60	0.70
727.80	0.70
728.00	0.70
728.20	0.70
728.40	0.70
728.60	0.70
728.80	0.70
729.00	0.70
729.20	0.70
729.40	0.70
729.60	0.70
729.80	0.70
730.00	0.70
730.20	0.71
730.40	0.71
730.60	0.71
730.80	0.71
731.00	0.71
731.20	0.71
731.40	0.71
731.60	0.71
731.80	0.71
732.00	0.71
732.20	0.71
732.40	0.71
732.60	0.71
732.80	0.71
733.00	0.71
733.20	0.71
733.40	0.71
733.60	0.71
733.80	0.71
734.00	0.71
734.20	0.71
734.40	0.71
734.60	0.71
734.80	0.71
735.00	0.71
735.20	0.71
735.40	0.71
735.60	0.71
735.80	0.71
736.00	0.71
736.20	0.71
736.40	0.71

736.60	0.71
736.80	0.71
737.00	0.71
737.20	0.71
737.40	0.71
737.60	0.71
737.80	0.71
738.00	0.71
738.20	0.71
738.40	0.72
738.60	0.72
738.80	0.72
739.00	0.72
739.20	0.72
739.40	0.72
739.60	0.72
739.80	0.72
740.00	0.72
740.20	0.72
740.40	0.72
740.60	0.72
740.80	0.72
741.00	0.72
741.20	0.72
741.40	0.72
741.60	0.72
741.80	0.72
742.00	0.72
742.20	0.72
742.40	0.72
742.60	0.72
742.80	0.72
743.00	0.72
743.20	0.72
743.40	0.72
743.60	0.72
743.80	0.72
744.00	0.72
744.20	0.72
744.40	0.72
744.60	0.72
744.80	0.72
745.00	0.72
745.20	0.72
745.40	0.72
745.60	0.72
745.80	0.72
746.00	0.72
746.20	0.73
746.40	0.73
746.60	0.73
746.80	0.73
747.00	0.73
747.20	0.73
747.40	0.73
747.60	0.73
747.80	0.73
748.00	0.73
748.20	0.73
748.40	0.73
748.60	0.73
748.80	0.73
749.00	0.73
749.20	0.73
749.40	0.73
749.60	0.73

749.80	0.73
750.00	0.73
750.20	0.73
750.40	0.73
750.60	0.73
750.80	0.73
751.00	0.73
751.20	0.73
751.40	0.73
751.60	0.73
751.80	0.73
752.00	0.73
752.20	0.73
752.40	0.73
752.60	0.73
752.80	0.73
753.00	0.73
753.20	0.73
753.40	0.73
753.60	0.73
753.80	0.74
754.00	0.74
754.20	0.74
754.40	0.74
754.60	0.74
754.80	0.74
755.00	0.74
755.20	0.74
755.40	0.74
755.60	0.74
755.80	0.74
756.00	0.74
756.20	0.74
756.40	0.74
756.60	0.74
756.80	0.74
757.00	0.74
757.20	0.74
757.40	0.74
757.60	0.74
757.80	0.74
758.00	0.74
758.20	0.74
758.40	0.74
758.60	0.74
758.80	0.74
759.00	0.74
759.20	0.74
759.40	0.74
759.60	0.74
759.80	0.74
760.00	0.74
760.20	0.74
760.40	0.74
760.60	0.74
760.80	0.74
761.00	0.75
761.20	0.75
761.40	0.75
761.60	0.75
761.80	0.75
762.00	0.75
762.20	0.75
762.40	0.75
762.60	0.75
762.80	0.75

763.00	0.75
763.20	0.75
763.40	0.75
763.60	0.75
763.80	0.75
764.00	0.75
764.20	0.75
764.40	0.75
764.60	0.75
764.80	0.75
765.00	0.75
765.20	0.75
765.40	0.75
765.60	0.75
765.80	0.75
766.00	0.75
766.20	0.75
766.40	0.75
766.60	0.75
766.80	0.75
767.00	0.75
767.20	0.75
767.40	0.75
767.60	0.75
767.80	0.75
768.00	0.75
768.20	0.76
768.40	0.76
768.60	0.76
768.80	0.76
769.00	0.76
769.20	0.76
769.40	0.76
769.60	0.76
769.80	0.76
770.00	0.76
770.20	0.76
770.40	0.76
770.60	0.76
770.80	0.76
771.00	0.76
771.20	0.76
771.40	0.76
771.60	0.76
771.80	0.76
772.00	0.76
772.20	0.76
772.40	0.76
772.60	0.76
772.80	0.76
773.00	0.76
773.20	0.76
773.40	0.76
773.60	0.76
773.80	0.76
774.00	0.76
774.20	0.76
774.40	0.76
774.60	0.76
774.80	0.76
775.00	0.77
775.20	0.77
775.40	0.77
775.60	0.77
775.80	0.77
776.00	0.77

776.20	0.77
776.40	0.77
776.60	0.77
776.80	0.77
777.00	0.77
777.20	0.77
777.40	0.77
777.60	0.77
777.80	0.77
778.00	0.77
778.20	0.77
778.40	0.77
778.60	0.77
778.80	0.77
779.00	0.77
779.20	0.77
779.40	0.77
779.60	0.77
779.80	0.77
780.00	0.77
780.20	0.77
780.40	0.77
780.60	0.77
780.80	0.77
781.00	0.77
781.20	0.77
781.40	0.77
781.60	0.77
781.80	0.78
782.00	0.78
782.20	0.78
782.40	0.78
782.60	0.78
782.80	0.78
783.00	0.78
783.20	0.78
783.40	0.78
783.60	0.78
783.80	0.78
784.00	0.78
784.20	0.78
784.40	0.78
784.60	0.78
784.80	0.78
785.00	0.78
785.20	0.78
785.40	0.78
785.60	0.78
785.80	0.78
786.00	0.78
786.20	0.78
786.40	0.78
786.60	0.78
786.80	0.78
787.00	0.78
787.20	0.78
787.40	0.78
787.60	0.78
787.80	0.78
788.00	0.78
788.20	0.79
788.40	0.79
788.60	0.79
788.80	0.79
789.00	0.79
789.20	0.79

789.40	0.79
789.60	0.79
789.80	0.79
790.00	0.79
790.20	0.79
790.40	0.79
790.60	0.79
790.80	0.79
791.00	0.79
791.20	0.79
791.40	0.79
791.60	0.79
791.80	0.79
792.00	0.79
792.20	0.79
792.40	0.79
792.60	0.79
792.80	0.79
793.00	0.79
793.20	0.79
793.40	0.79
793.60	0.79
793.80	0.79
794.00	0.79
794.20	0.79
794.40	0.80
794.60	0.80
794.80	0.80
795.00	0.80
795.20	0.80
795.40	0.80
795.60	0.80
795.80	0.80
796.00	0.80
796.20	0.80
796.40	0.80
796.60	0.80
796.80	0.80
797.00	0.80
797.20	0.80
797.40	0.80
797.60	0.80
797.80	0.80
798.00	0.80
798.20	0.80
798.40	0.80
798.60	0.80
798.80	0.80
799.00	0.80
799.20	0.80
799.40	0.80
799.60	0.80
799.80	0.80
800.00	0.80
800.20	0.80
800.40	0.81
800.60	0.81
800.80	0.81
801.00	0.81
801.20	0.81
801.40	0.81
801.60	0.81
801.80	0.81
802.00	0.81
802.20	0.81
802.40	0.81

802.60	0.81
802.80	0.81
803.00	0.81
803.20	0.81
803.40	0.81
803.60	0.81
803.80	0.81
804.00	0.81
804.20	0.81
804.40	0.81
804.60	0.81
804.80	0.81
805.00	0.81
805.20	0.81
805.40	0.81
805.60	0.81
805.80	0.81
806.00	0.81
806.20	0.81
806.40	0.82
806.60	0.82
806.80	0.82
807.00	0.82
807.20	0.82
807.40	0.82
807.60	0.82
807.80	0.82
808.00	0.82
808.20	0.82
808.40	0.82
808.60	0.82
808.80	0.82
809.00	0.82
809.20	0.82
809.40	0.82
809.60	0.82
809.80	0.82
810.00	0.82
810.20	0.82
810.40	0.82
810.60	0.82
810.80	0.82
811.00	0.82
811.20	0.82
811.40	0.82
811.60	0.82
811.80	0.82
812.00	0.82
812.20	0.83
812.40	0.83
812.60	0.83
812.80	0.83
813.00	0.83
813.20	0.83
813.40	0.83
813.60	0.83
813.80	0.83
814.00	0.83
814.20	0.83
814.40	0.83
814.60	0.83
814.80	0.83
815.00	0.83
815.20	0.83
815.40	0.83
815.60	0.83

815.80	0.83
816.00	0.83
816.20	0.83
816.40	0.83
816.60	0.83
816.80	0.83
817.00	0.83
817.20	0.83
817.40	0.83
817.60	0.84
817.80	0.84
818.00	0.84
818.20	0.84
818.40	0.84
818.60	0.84
818.80	0.84
819.00	0.84
819.20	0.84
819.40	0.84
819.60	0.84
819.80	0.84
820.00	0.84
820.20	0.84
820.40	0.84
820.60	0.84
820.80	0.84
821.00	0.84
821.20	0.84
821.40	0.84
821.60	0.84
821.80	0.84
822.00	0.84
822.20	0.84
822.40	0.84
822.60	0.84
822.80	0.84
823.00	0.85
823.20	0.85
823.40	0.85
823.60	0.85
823.80	0.85
824.00	0.85
824.20	0.85
824.40	0.85
824.60	0.85
824.80	0.85
825.00	0.85
825.20	0.85
825.40	0.85
825.60	0.85
825.80	0.85
826.00	0.85
826.20	0.85
826.40	0.85
826.60	0.85
826.80	0.85
827.00	0.85
827.20	0.85
827.40	0.85
827.60	0.85
827.80	0.85
828.00	0.85
828.20	0.86
828.40	0.86
828.60	0.86
828.80	0.86

829.00	0.86
829.20	0.86
829.40	0.86
829.60	0.86
829.80	0.86
830.00	0.86
830.20	0.86
830.40	0.86
830.60	0.86
830.80	0.86
831.00	0.86
831.20	0.86
831.40	0.86
831.60	0.86
831.80	0.86
832.00	0.86
832.20	0.86
832.40	0.86
832.60	0.86
832.80	0.86
833.00	0.86
833.20	0.86
833.40	0.87
833.60	0.87
833.80	0.87
834.00	0.87
834.20	0.87
834.40	0.87
834.60	0.87
834.80	0.87
835.00	0.87
835.20	0.87
835.40	0.87
835.60	0.87
835.80	0.87
836.00	0.87
836.20	0.87
836.40	0.87
836.60	0.87
836.80	0.87
837.00	0.87
837.20	0.87
837.40	0.87
837.60	0.87
837.80	0.87
838.00	0.87
838.20	0.87
838.40	0.87
838.60	0.88
838.80	0.88
839.00	0.88
839.20	0.88
839.40	0.88
839.60	0.88
839.80	0.88
840.00	0.88
840.20	0.88
840.40	0.88
840.60	0.88
840.80	0.88
841.00	0.88
841.20	0.88
841.40	0.88
841.60	0.88
841.80	0.88
842.00	0.88

842.20	0.88
842.40	0.88
842.60	0.88
842.80	0.88
843.00	0.88
843.20	0.88
843.40	0.88
843.60	0.88
843.80	0.88
844.00	0.88
844.20	0.88
844.40	0.88
844.60	0.88
844.80	0.89
845.00	0.89
845.20	0.89
845.40	0.89
845.60	0.89
845.80	0.89
846.00	0.89
846.20	0.89
846.40	0.89
846.60	0.89
846.80	0.89
847.00	0.89
847.20	0.89
847.40	0.89
847.60	0.89
847.80	0.89
848.00	0.89
848.20	0.89
848.40	0.89
848.60	0.89
848.80	0.89
849.00	0.89
849.20	0.89
849.40	0.89
849.60	0.89
849.80	0.89
850.00	0.89
850.20	0.89
850.40	0.89
850.60	0.89
850.80	0.90
851.00	0.90
851.20	0.90
851.40	0.90
851.60	0.90
851.80	0.90
852.00	0.90
852.20	0.90
852.40	0.90
852.60	0.90
852.80	0.90
853.00	0.90
853.20	0.90
853.40	0.90
853.60	0.90
853.80	0.90
854.00	0.90
854.20	0.90
854.40	0.90
854.60	0.90
854.80	0.90
855.00	0.90
855.20	0.90

855.40	0.90
855.60	0.90
855.80	0.90
856.00	0.90
856.20	0.90
856.40	0.90
856.60	0.90
856.80	0.91
857.00	0.91
857.20	0.91
857.40	0.91
857.60	0.91
857.80	0.91
858.00	0.91
858.20	0.91
858.40	0.91
858.60	0.91
858.80	0.91
859.00	0.91
859.20	0.91
859.40	0.91
859.60	0.91
859.80	0.91
860.00	0.91
860.20	0.91
860.40	0.91
860.60	0.91
860.80	0.91
861.00	0.91
861.20	0.91
861.40	0.91
861.60	0.91
861.80	0.91
862.00	0.91
862.20	0.91
862.40	0.92
862.60	0.92
862.80	0.92
863.00	0.92
863.20	0.92
863.40	0.92
863.60	0.92
863.80	0.92
864.00	0.92
864.20	0.92
864.40	0.92
864.60	0.92
864.80	0.92
865.00	0.92
865.20	0.92
865.40	0.92
865.60	0.92
865.80	0.92
866.00	0.92
866.20	0.92
866.40	0.92
866.60	0.92
866.80	0.92
867.00	0.92
867.20	0.92
867.40	0.92
867.60	0.92
867.80	0.93
868.00	0.93
868.20	0.93
868.40	0.93

868.60	0.93
868.80	0.93
869.00	0.93
869.20	0.93
869.40	0.93
869.60	0.93
869.80	0.93
870.00	0.93
870.20	0.93
870.40	0.93
870.60	0.93
870.80	0.93
871.00	0.93
871.20	0.93
871.40	0.93
871.60	0.93
871.80	0.93
872.00	0.93
872.20	0.93
872.40	0.93
872.60	0.93
872.80	0.93
873.00	0.93
873.20	0.94
873.40	0.94
873.60	0.94
873.80	0.94
874.00	0.94
874.20	0.94
874.40	0.94
874.60	0.94
874.80	0.94
875.00	0.94
875.20	0.94
875.40	0.94
875.60	0.94
875.80	0.94
876.00	0.94
876.20	0.94
876.40	0.94
876.60	0.94
876.80	0.94
877.00	0.94
877.20	0.94
877.40	0.94
877.60	0.94
877.80	0.94
878.00	0.94
878.20	0.94
878.40	0.95
878.60	0.95
878.80	0.95
879.00	0.95
879.20	0.95
879.40	0.95
879.60	0.95
879.80	0.95
880.00	0.95
880.20	0.95
880.40	0.95
880.60	0.95
880.80	0.95
881.00	0.95
881.20	0.95
881.40	0.95
881.60	0.95

881.80	0.95
882.00	0.95
882.20	0.95
882.40	0.95
882.60	0.95
882.80	0.95
883.00	0.95
883.20	0.95
883.40	0.96
883.60	0.96
883.80	0.96
884.00	0.96
884.20	0.96
884.40	0.96
884.60	0.96
884.80	0.96
885.00	0.96
885.20	0.96
885.40	0.96
885.60	0.96
885.80	0.96
886.00	0.96
886.20	0.96
886.40	0.96
886.60	0.96
886.80	0.96
887.00	0.96
887.20	0.96
887.40	0.96
887.60	0.96
887.80	0.96
888.00	0.96
888.20	0.97
888.40	0.97
888.60	0.97
888.80	0.97
889.00	0.97
889.20	0.97
889.40	0.97
889.60	0.97
889.80	0.97
890.00	0.97
890.20	0.97
890.40	0.97
890.60	0.97
890.80	0.97
891.00	0.97
891.20	0.97
891.40	0.97
891.60	0.97
891.80	0.97
892.00	0.97
892.20	0.97
892.40	0.97
892.60	0.97
892.80	0.98
893.00	0.98
893.20	0.98
893.40	0.98
893.60	0.98
893.80	0.98
894.00	0.98
894.20	0.98
894.40	0.98
894.60	0.98
894.80	0.98

895.00	0.98
895.20	0.98
895.40	0.98
895.60	0.98
895.80	0.98
896.00	0.98
896.20	0.98
896.40	0.98
896.60	0.98
896.80	0.98
897.00	0.98
897.20	0.98
897.40	0.99
897.60	0.99
897.80	0.99
898.00	0.99
898.20	0.99
898.40	0.99
898.60	0.99
898.80	0.99
899.00	0.99
899.20	0.99
899.40	0.99
899.60	0.99
899.80	0.99
900.00	0.99
900.20	0.99
900.40	0.99
900.60	0.99
900.80	0.99
901.00	0.99
901.20	0.99
901.40	0.99
901.60	0.99
901.80	1.00
902.00	1.00
902.20	1.00
902.40	1.00
902.60	1.00
902.80	1.00
903.00	1.00
903.20	1.00
903.40	1.00
903.60	1.00
903.80	1.00
904.00	1.00
904.20	1.00
904.40	1.00
904.60	1.00
904.80	1.00
905.00	1.00
905.20	1.00
905.40	1.00
905.60	1.00
905.80	1.00
906.00	1.00
906.20	1.01
906.40	1.01
906.60	1.01
906.80	1.01
907.00	1.01
907.20	1.01
907.40	1.01
907.60	1.01
907.80	1.01
908.00	1.01

908.20	1.01
908.40	1.01
908.60	1.01
908.80	1.01
909.00	1.01
909.20	1.01
909.40	1.01
909.60	1.01
909.80	1.01
910.00	1.01
910.20	1.01
910.40	1.02
910.60	1.02
910.80	1.02
911.00	1.02
911.20	1.02
911.40	1.02
911.60	1.02
911.80	1.02
912.00	1.02
912.20	1.02
912.40	1.02
912.60	1.02
912.80	1.02
913.00	1.02
913.20	1.02
913.40	1.02
913.60	1.02
913.80	1.02
914.00	1.02
914.20	1.02
914.40	1.02
914.60	1.03
914.80	1.03
915.00	1.03
915.20	1.03
915.40	1.03
915.60	1.03
915.80	1.03
916.00	1.03
916.20	1.03
916.40	1.03
916.60	1.03
916.80	1.03
917.00	1.03
917.20	1.03
917.40	1.03
917.60	1.03
917.80	1.03
918.00	1.03
918.20	1.03
918.40	1.04
918.60	1.04
918.80	1.04
919.00	1.04
919.20	1.04
919.40	1.04
919.60	1.04
919.80	1.04
920.00	1.04
920.20	1.04
920.40	1.04
920.60	1.04
920.80	1.04
921.00	1.04
921.20	1.04

921.40	1.04
921.60	1.04
921.80	1.04
922.00	1.04
922.20	1.04
922.40	1.05
922.60	1.05
922.80	1.05
923.00	1.05
923.20	1.05
923.40	1.05
923.60	1.05
923.80	1.05
924.00	1.05
924.20	1.05
924.40	1.05
924.60	1.05
924.80	1.05
925.00	1.05
925.20	1.05
925.40	1.05
925.60	1.05
925.80	1.05
926.00	1.05
926.20	1.06
926.40	1.06
926.60	1.06
926.80	1.06
927.00	1.06
927.20	1.06
927.40	1.06
927.60	1.06
927.80	1.06
928.00	1.06
928.20	1.06
928.40	1.06
928.60	1.06
928.80	1.06
929.00	1.06
929.20	1.06
929.40	1.06
929.60	1.06
929.80	1.07
930.00	1.07
930.20	1.07
930.40	1.07
930.60	1.07
930.80	1.07
931.00	1.07
931.20	1.07
931.40	1.07
931.60	1.07
931.80	1.07
932.00	1.07
932.20	1.07
932.40	1.07
932.60	1.07
932.80	1.07
933.00	1.07
933.20	1.07
933.40	1.08
933.60	1.08
933.80	1.08
934.00	1.08
934.20	1.08
934.40	1.08

934.60	1.08
934.80	1.08
935.00	1.08
935.20	1.08
935.40	1.08
935.60	1.08
935.80	1.08
936.00	1.08
936.20	1.08
936.40	1.08
936.60	1.08
936.80	1.09
937.00	1.09
937.20	1.09
937.40	1.09
937.60	1.09
937.80	1.09
938.00	1.09
938.20	1.09
938.40	1.09
938.60	1.09
938.80	1.09
939.00	1.09
939.20	1.09
939.40	1.09
939.60	1.09
939.80	1.09
940.00	1.09
940.20	1.10
940.40	1.10
940.60	1.10
940.80	1.10
941.00	1.10
941.20	1.10
941.40	1.10
941.60	1.10
941.80	1.10
942.00	1.10
942.20	1.10
942.40	1.10
942.60	1.10
942.80	1.10
943.00	1.10
943.20	1.10
943.40	1.11
943.60	1.11
943.80	1.11
944.00	1.11
944.20	1.11
944.40	1.11
944.60	1.11
944.80	1.11
945.00	1.11
945.20	1.11
945.40	1.11
945.60	1.11
945.80	1.11
946.00	1.11
946.20	1.11
946.40	1.11
946.60	1.12
946.80	1.12
947.00	1.12
947.20	1.12
947.40	1.12
947.60	1.12

947.80	1.12
948.00	1.12
948.20	1.12
948.40	1.12
948.60	1.12
948.80	1.12
949.00	1.12
949.20	1.12
949.40	1.12
949.60	1.12
949.80	1.13
950.00	1.13
950.20	1.13
950.40	1.13
950.60	1.13
950.80	1.13
951.00	1.13
951.20	1.13
951.40	1.13
951.60	1.13
951.80	1.13
952.00	1.13
952.20	1.13
952.40	1.13
952.60	1.13
952.80	1.14
953.00	1.14
953.20	1.14
953.40	1.14
953.60	1.14
953.80	1.14
954.00	1.14
954.20	1.14
954.40	1.14
954.60	1.14
954.80	1.14
955.00	1.14
955.20	1.14
955.40	1.14
955.60	1.14
955.80	1.15
956.00	1.15
956.20	1.15
956.40	1.15
956.60	1.15
956.80	1.15
957.00	1.15
957.20	1.15
957.40	1.15
957.60	1.15
957.80	1.15
958.00	1.15
958.20	1.15
958.40	1.15
958.60	1.15
958.80	1.16
959.00	1.16
959.20	1.16
959.40	1.16
959.60	1.16
959.80	1.16
960.00	1.16
960.20	1.16
960.40	1.16
960.60	1.16
960.80	1.16

961.00	1.16
961.20	1.16
961.40	1.16
961.60	1.17
961.80	1.17
962.00	1.17
962.20	1.17
962.40	1.17
962.60	1.17
962.80	1.17
963.00	1.17
963.20	1.17
963.40	1.17
963.60	1.17
963.80	1.17
964.00	1.17
964.20	1.17
964.40	1.18
964.60	1.18
964.80	1.18
965.00	1.18
965.20	1.18
965.40	1.18
965.60	1.18
965.80	1.18
966.00	1.18
966.20	1.18
966.40	1.18
966.60	1.18
966.80	1.18
967.00	1.18
967.20	1.19
967.40	1.19
967.60	1.19
967.80	1.19
968.00	1.19
968.20	1.19
968.40	1.19
968.60	1.19
968.80	1.19
969.00	1.19
969.20	1.19
969.40	1.19
969.60	1.19
969.80	1.20
970.00	1.20
970.20	1.20
970.40	1.20
970.60	1.20
970.80	1.20
971.00	1.20
971.20	1.20
971.40	1.20
971.60	1.20
971.80	1.20
972.00	1.20
972.20	1.20
972.40	1.21
972.60	1.21
972.80	1.21
973.00	1.21
973.20	1.21
973.40	1.21
973.60	1.21
973.80	1.21
974.00	1.21

974.20	1.21
974.40	1.21
974.60	1.21
974.80	1.22
975.00	1.22
975.20	1.22
975.40	1.22
975.60	1.22
975.80	1.22
976.00	1.22
976.20	1.22
976.40	1.22
976.60	1.22
976.80	1.22
977.00	1.22
977.20	1.22
977.40	1.23
977.60	1.23
977.80	1.23
978.00	1.23
978.20	1.23
978.40	1.23
978.60	1.23
978.80	1.23
979.00	1.23
979.20	1.23
979.40	1.23
979.60	1.23
979.80	1.24
980.00	1.24
980.20	1.24
980.40	1.24
980.60	1.24
980.80	1.24
981.00	1.24
981.20	1.24
981.40	1.24
981.60	1.24
981.80	1.24
982.00	1.24
982.20	1.25
982.40	1.25
982.60	1.25
982.80	1.25
983.00	1.25
983.20	1.25
983.40	1.25
983.60	1.25
983.80	1.25
984.00	1.25
984.20	1.25
984.40	1.26
984.60	1.26
984.80	1.26
985.00	1.26
985.20	1.26
985.40	1.26
985.60	1.26
985.80	1.26
986.00	1.26
986.20	1.26
986.40	1.26
986.60	1.26
986.80	1.27
987.00	1.27
987.20	1.27

987.40	1.27
987.60	1.27
987.80	1.27
988.00	1.27
988.20	1.27
988.40	1.27
988.60	1.27
988.80	1.27
989.00	1.28
989.20	1.28
989.40	1.28
989.60	1.28
989.80	1.28
990.00	1.28
990.20	1.28
990.40	1.28
990.60	1.28
990.80	1.28
991.00	1.28
991.20	1.29
991.40	1.29
991.60	1.29
991.80	1.29
992.00	1.29
992.20	1.29
992.40	1.29
992.60	1.29
992.80	1.29
993.00	1.29
993.20	1.30
993.40	1.30
993.60	1.30
993.80	1.30
994.00	1.30
994.20	1.30
994.40	1.30
994.60	1.30
994.80	1.30
995.00	1.30
995.20	1.31
995.40	1.31
995.60	1.31
995.80	1.31
996.00	1.31
996.20	1.31
996.40	1.31
996.60	1.31
996.80	1.31
997.00	1.31
997.20	1.31
997.40	1.32
997.60	1.32
997.80	1.32
998.00	1.32
998.20	1.32
998.40	1.32
998.60	1.32
998.80	1.32
999.00	1.32
999.20	1.33
999.40	1.33
999.60	1.33
999.80	1.33
1000.00	1.33
1000.20	1.33
1000.40	1.33

1000.60	1.33
1000.80	1.33
1001.00	1.33
1001.20	1.34
1001.40	1.34
1001.60	1.34
1001.80	1.34
1002.00	1.34
1002.20	1.34
1002.40	1.34
1002.60	1.34
1002.80	1.34
1003.00	1.34
1003.20	1.35
1003.40	1.35
1003.60	1.35
1003.80	1.35
1004.00	1.35
1004.20	1.35
1004.40	1.35
1004.60	1.35
1004.80	1.35
1005.00	1.36
1005.20	1.36
1005.40	1.36
1005.60	1.36
1005.80	1.36
1006.00	1.36
1006.20	1.36
1006.40	1.36
1006.60	1.36
1006.80	1.37
1007.00	1.37
1007.20	1.37
1007.40	1.37
1007.60	1.37
1007.80	1.37
1008.00	1.37
1008.20	1.37
1008.40	1.37
1008.60	1.38
1008.80	1.38
1009.00	1.38
1009.20	1.38
1009.40	1.38
1009.60	1.38
1009.80	1.38
1010.00	1.38
1010.20	1.38
1010.40	1.39
1010.60	1.39
1010.80	1.39
1011.00	1.39
1011.20	1.39
1011.40	1.39
1011.60	1.39
1011.80	1.39
1012.00	1.40
1012.20	1.40
1012.40	1.40
1012.60	1.40
1012.80	1.40
1013.00	1.40
1013.20	1.40
1013.40	1.40
1013.60	1.40

1013.80	1.41
1014.00	1.41
1014.20	1.41
1014.40	1.41
1014.60	1.41
1014.80	1.41
1015.00	1.41
1015.20	1.41
1015.40	1.42
1015.60	1.42
1015.80	1.42
1016.00	1.42
1016.20	1.42
1016.40	1.42
1016.60	1.42
1016.80	1.42
1017.00	1.43
1017.20	1.43
1017.40	1.43
1017.60	1.43
1017.80	1.43
1018.00	1.43
1018.20	1.43
1018.40	1.43
1018.60	1.44
1018.80	1.44
1019.00	1.44
1019.20	1.44
1019.40	1.44
1019.60	1.44
1019.80	1.44
1020.00	1.44
1020.20	1.45
1020.40	1.45
1020.60	1.45
1020.80	1.45
1021.00	1.45
1021.20	1.45
1021.40	1.45
1021.60	1.45
1021.80	1.46
1022.00	1.46
1022.20	1.46
1022.40	1.46
1022.60	1.46
1022.80	1.46
1023.00	1.46
1023.20	1.47
1023.40	1.47
1023.60	1.47
1023.80	1.47
1024.00	1.47
1024.20	1.47
1024.40	1.47
1024.60	1.47
1024.80	1.48
1025.00	1.48
1025.20	1.48
1025.40	1.48
1025.60	1.48
1025.80	1.48
1026.00	1.48
1026.20	1.49
1026.40	1.49
1026.60	1.49
1026.80	1.49

1027.00	1.49
1027.20	1.49
1027.40	1.49
1027.60	1.50
1027.80	1.50
1028.00	1.50
1028.20	1.50
1028.40	1.50
1028.60	1.50
1028.80	1.50
1029.00	1.51
1029.20	1.51
1029.40	1.51
1029.60	1.51
1029.80	1.51
1030.00	1.51
1030.20	1.51
1030.40	1.52
1030.60	1.52
1030.80	1.52
1031.00	1.52
1031.20	1.52
1031.40	1.52
1031.60	1.53
1031.80	1.53
1032.00	1.53
1032.20	1.53
1032.40	1.53
1032.60	1.53
1032.80	1.53
1033.00	1.54
1033.20	1.54
1033.40	1.54
1033.60	1.54
1033.80	1.54
1034.00	1.54
1034.20	1.54
1034.40	1.55
1034.60	1.55
1034.80	1.55
1035.00	1.55
1035.20	1.55
1035.40	1.55
1035.60	1.56
1035.80	1.56
1036.00	1.56
1036.20	1.56
1036.40	1.56
1036.60	1.56
1036.80	1.57
1037.00	1.57
1037.20	1.57
1037.40	1.57
1037.60	1.57
1037.80	1.57
1038.00	1.58
1038.20	1.58
1038.40	1.58
1038.60	1.58
1038.80	1.58
1039.00	1.58
1039.20	1.59
1039.40	1.59
1039.60	1.59
1039.80	1.59
1040.00	1.59

1040.20	1.59
1040.40	1.60
1040.60	1.60
1040.80	1.60
1041.00	1.60
1041.20	1.60
1041.40	1.60
1041.60	1.61
1041.80	1.61
1042.00	1.61
1042.20	1.61
1042.40	1.61
1042.60	1.61
1042.80	1.62
1043.00	1.62
1043.20	1.62
1043.40	1.62
1043.60	1.62
1043.80	1.63
1044.00	1.63
1044.20	1.63
1044.40	1.63
1044.60	1.63
1044.80	1.63
1045.00	1.64
1045.20	1.64
1045.40	1.64
1045.60	1.64
1045.80	1.64
1046.00	1.65
1046.20	1.65
1046.40	1.65
1046.60	1.65
1046.80	1.65
1047.00	1.65
1047.20	1.66
1047.40	1.66
1047.60	1.66
1047.80	1.66
1048.00	1.66
1048.20	1.67
1048.40	1.67
1048.60	1.67
1048.80	1.67
1049.00	1.67
1049.20	1.68
1049.40	1.68
1049.60	1.68
1049.80	1.68
1050.00	1.68
1050.20	1.69
1050.40	1.69
1050.60	1.69
1050.80	1.69
1051.00	1.69
1051.20	1.70
1051.40	1.70
1051.60	1.70
1051.80	1.70
1052.00	1.70
1052.20	1.71
1052.40	1.71
1052.60	1.71
1052.80	1.71
1053.00	1.71
1053.20	1.72

1053.40	1.72
1053.60	1.72
1053.80	1.72
1054.00	1.72
1054.20	1.73
1054.40	1.73
1054.60	1.73
1054.80	1.73
1055.00	1.73
1055.20	1.74
1055.40	1.74
1055.60	1.74
1055.80	1.74
1056.00	1.75
1056.20	1.75
1056.40	1.75
1056.60	1.75
1056.80	1.75
1057.00	1.76
1057.20	1.76
1057.40	1.76
1057.60	1.76
1057.80	1.76
1058.00	1.77
1058.20	1.77
1058.40	1.77
1058.60	1.77
1058.80	1.78
1059.00	1.78
1059.20	1.78
1059.40	1.78
1059.60	1.78
1059.80	1.79
1060.00	1.79
1060.20	1.79
1060.40	1.79
1060.60	1.79
1060.80	1.80
1061.00	1.80
1061.20	1.80
1061.40	1.80
1061.60	1.80
1061.80	1.81
1062.00	1.81
1062.20	1.81
1062.40	1.81
1062.60	1.81
1062.80	1.82
1063.00	1.82
1063.20	1.82
1063.40	1.82
1063.60	1.82
1063.80	1.83
1064.00	1.83
1064.20	1.83
1064.40	1.83
1064.60	1.83
1064.80	1.84
1065.00	1.84
1065.20	1.84
1065.40	1.84
1065.60	1.85
1065.80	1.85
1066.00	1.85
1066.20	1.85
1066.40	1.85

1066.60	1.86
1066.80	1.86
1067.00	1.86
1067.20	1.86
1067.40	1.87
1067.60	1.87
1067.80	1.87
1068.00	1.87
1068.20	1.87
1068.40	1.88
1068.60	1.88
1068.80	1.88
1069.00	1.88
1069.20	1.89
1069.40	1.89
1069.60	1.89
1069.80	1.89
1070.00	1.90
1070.20	1.90
1070.40	1.90
1070.60	1.90
1070.80	1.91
1071.00	1.91
1071.20	1.91
1071.40	1.91
1071.60	1.92
1071.80	1.92
1072.00	1.92
1072.20	1.92
1072.40	1.93
1072.60	1.93
1072.80	1.93
1073.00	1.93
1073.20	1.94
1073.40	1.94
1073.60	1.94
1073.80	1.94
1074.00	1.95
1074.20	1.95
1074.40	1.95
1074.60	1.95
1074.80	1.96
1075.00	1.96
1075.20	1.96
1075.40	1.96
1075.60	1.97
1075.80	1.97
1076.00	1.97
1076.20	1.97
1076.40	1.98
1076.60	1.98
1076.80	1.98
1077.00	1.98
1077.20	1.99
1077.40	1.99
1077.60	1.99
1077.80	2.00
1078.00	2.00
1078.20	2.00
1078.40	2.00
1078.60	2.01
1078.80	2.01
1079.00	2.01
1079.20	2.02
1079.40	2.02
1079.60	2.02

1079.80	2.02
1080.00	2.03
1080.20	2.03
1080.40	2.03
1080.60	2.04
1080.80	2.04
1081.00	2.04
1081.20	2.04
1081.40	2.05
1081.60	2.05
1081.80	2.05
1082.00	2.06
1082.20	2.06
1082.40	2.06
1082.60	2.07
1082.80	2.07
1083.00	2.07
1083.20	2.07
1083.40	2.08
1083.60	2.08
1083.80	2.08
1084.00	2.09
1084.20	2.09
1084.40	2.09
1084.60	2.10
1084.80	2.10
1085.00	2.10
1085.20	2.11
1085.40	2.11
1085.60	2.11
1085.80	2.12
1086.00	2.12
1086.20	2.12
1086.40	2.13
1086.60	2.13
1086.80	2.13
1087.00	2.14
1087.20	2.14
1087.40	2.14
1087.60	2.15
1087.80	2.15
1088.00	2.15
1088.20	2.16
1088.40	2.16
1088.60	2.16
1088.80	2.17
1089.00	2.17
1089.20	2.17
1089.40	2.18
1089.60	2.18
1089.80	2.18
1090.00	2.19
1090.20	2.19
1090.40	2.20
1090.60	2.20
1090.80	2.20
1091.00	2.21
1091.20	2.21
1091.40	2.21
1091.60	2.22
1091.80	2.22
1092.00	2.23
1092.20	2.23
1092.40	2.23
1092.60	2.24
1092.80	2.24

1093.00	2.24
1093.20	2.25
1093.40	2.25
1093.60	2.26
1093.80	2.26
1094.00	2.26
1094.20	2.27
1094.40	2.27
1094.60	2.28
1094.80	2.28
1095.00	2.28
1095.20	2.29
1095.40	2.29
1095.60	2.30
1095.80	2.30
1096.00	2.30
1096.20	2.31
1096.40	2.31
1096.60	2.32
1096.80	2.32
1097.00	2.33
1097.20	2.33
1097.40	2.33
1097.60	2.34
1097.80	2.34
1098.00	2.35
1098.20	2.35
1098.40	2.36
1098.60	2.36
1098.80	2.37
1099.00	2.37
1099.20	2.38
1099.40	2.38
1099.60	2.38
1099.80	2.39
1100.00	2.39
1100.20	2.40
1100.40	2.40
1100.60	2.41
1100.80	2.41
1101.00	2.42
1101.20	2.42
1101.40	2.43
1101.60	2.43
1101.80	2.44
1102.00	2.44
1102.20	2.45
1102.40	2.45
1102.60	2.46
1102.80	2.46
1103.00	2.47
1103.20	2.47
1103.40	2.48
1103.60	2.48
1103.80	2.49
1104.00	2.49
1104.20	2.50
1104.40	2.50
1104.60	2.51
1104.80	2.51
1105.00	2.52
1105.20	2.53
1105.40	2.53
1105.60	2.54
1105.80	2.54
1106.00	2.55

1106.20	2.55
1106.40	2.56
1106.60	2.56
1106.80	2.57
1107.00	2.58
1107.20	2.58
1107.40	2.59
1107.60	2.59
1107.80	2.60
1108.00	2.61
1108.20	2.61
1108.40	2.62
1108.60	2.62
1108.80	2.63
1109.00	2.64
1109.20	2.64
1109.40	2.65
1109.60	2.66
1109.80	2.66
1110.00	2.67
1110.20	2.67
1110.40	2.68
1110.60	2.69
1110.80	2.69
1111.00	2.70
1111.20	2.71
1111.40	2.71
1111.60	2.72
1111.80	2.73
1112.00	2.73
1112.20	2.74
1112.40	2.75
1112.60	2.76
1112.80	2.76
1113.00	2.77
1113.20	2.78
1113.40	2.78
1113.60	2.79
1113.80	2.80
1114.00	2.81
1114.20	2.81
1114.40	2.82
1114.60	2.83
1114.80	2.84
1115.00	2.84
1115.20	2.85
1115.40	2.86
1115.60	2.87
1115.80	2.88
1116.00	2.88
1116.20	2.89
1116.40	2.90
1116.60	2.91
1116.80	2.92
1117.00	2.93
1117.20	2.93
1117.40	2.94
1117.60	2.95
1117.80	2.96
1118.00	2.97
1118.20	2.98
1118.40	2.99
1118.60	2.99
1118.80	3.00
1119.00	3.01
1119.20	3.02

1119.40	3.03
1119.60	3.04
1119.80	3.05
1120.00	3.06
1120.20	3.07
1120.40	3.08
1120.60	3.09
1120.80	3.10
1121.00	3.11
1121.20	3.12
1121.40	3.13
1121.60	3.14
1121.80	3.15
1122.00	3.16
1122.20	3.17
1122.40	3.18
1122.60	3.19
1122.80	3.20
1123.00	3.21
1123.20	3.22
1123.40	3.24
1123.60	3.25
1123.80	3.26
1124.00	3.27
1124.20	3.28
1124.40	3.29
1124.60	3.30
1124.80	3.32
1125.00	3.33
1125.20	3.34
1125.40	3.35
1125.60	3.37
1125.80	3.38
1126.00	3.39
1126.20	3.40
1126.40	3.42
1126.60	3.43
1126.80	3.44
1127.00	3.46
1127.20	3.47
1127.40	3.48
1127.60	3.50
1127.80	3.51
1128.00	3.53
1128.20	3.54
1128.40	3.56
1128.60	3.57
1128.80	3.59
1129.00	3.60
1129.20	3.62
1129.40	3.63
1129.60	3.65
1129.80	3.66
1130.00	3.68
1130.20	3.70
1130.40	3.71
1130.60	3.73
1130.80	3.75
1131.00	3.76
1131.20	3.78
1131.40	3.80
1131.60	3.82
1131.80	3.83
1132.00	3.85
1132.20	3.87
1132.40	3.89

1132.60	3.91
1132.80	3.93
1133.00	3.95
1133.20	3.97
1133.40	3.99
1133.60	4.01
1133.80	4.03
1134.00	4.05
1134.20	4.07
1134.40	4.09
1134.60	4.11
1134.80	4.13
1135.00	4.15
1135.20	4.17
1135.40	4.19
1135.60	4.21
1135.80	4.23
1136.00	4.26
1136.20	4.28
1136.40	4.30
1136.60	4.32
1136.80	4.35
1137.00	4.37
1137.20	4.39
1137.40	4.42
1137.60	4.44
1137.80	4.47
1138.00	4.49
1138.20	4.52
1138.40	4.55
1138.60	4.57
1138.80	4.60
1139.00	4.63
1139.20	4.66
1139.40	4.69
1139.60	4.72
1139.80	4.75
1140.00	4.78
1140.20	4.81
1140.40	4.84
1140.60	4.87
1140.80	4.91
1141.00	4.94
1141.20	4.98
1141.40	5.01
1141.60	5.05
1141.80	5.09
1142.00	5.13
1142.20	5.16
1142.40	5.20
1142.60	5.25
1142.80	5.29
1143.00	5.33
1143.20	5.38
1143.40	5.42
1143.60	5.47
1143.80	5.51
1144.00	5.56
1144.20	5.61
1144.40	5.67
1144.60	5.72
1144.80	5.78
1145.00	5.83
1145.20	5.89
1145.40	5.95
1145.60	6.01

1145.80	6.08
1146.00	6.15
1146.20	6.21
1146.40	6.29
1146.60	6.36
1146.80	6.44
1147.00	6.52
1147.20	6.60
1147.40	6.69
1147.60	6.78
1147.80	6.88
1148.00	6.98
1148.20	7.08
1148.40	7.18
1148.60	7.29
1148.80	7.40
1149.00	7.52
1149.20	7.65
1149.40	7.78
1149.60	7.93
1149.80	8.08
1150.00	8.25
1150.20	8.42
1150.40	8.62
1150.60	8.84
1150.80	9.08
1151.00	9.35
1151.20	9.66
1151.40	10.03
1151.60	10.49
1151.80	11.13
1152.00	12.69
1152.20	13.44
1152.40	13.69
1152.60	13.85
1152.80	13.97
1153.00	14.05
1153.20	14.11
1153.40	14.15
1153.60	14.18
1153.80	14.20
1154.00	14.20
1154.20	14.20
1154.40	14.19
1154.60	14.16
1154.80	14.14
1155.00	14.10
1155.20	14.06
1155.40	14.01
1155.60	13.96
1155.80	13.90
1156.00	13.83
1156.20	13.76
1156.40	13.68
1156.60	13.60
1156.80	13.51
1157.00	13.42
1157.20	13.32
1157.40	13.22
1157.60	13.11
1157.80	12.99
1158.00	12.87
1158.20	12.74
1158.40	12.60
1158.60	12.46
1158.80	12.31

1159.00	12.15
1159.20	11.98
1159.40	11.80
1159.60	11.61
1159.80	11.41
1160.00	11.19
1160.20	10.95
1160.40	10.69
1160.60	10.41
1160.80	10.11
1161.00	9.78
1161.20	9.40
1161.40	8.98
1161.60	8.46
1161.80	7.79
1162.00	6.16
1162.20	5.35
1162.40	5.04
1162.60	4.82
1162.80	4.64
1163.00	4.48
1163.20	4.35
1163.40	4.24
1163.60	4.13
1163.80	4.03
1164.00	3.93
1164.20	3.84
1164.40	3.76
1164.60	3.68
1164.80	3.61
1165.00	3.54
1165.20	3.48
1165.40	3.42
1165.60	3.36
1165.80	3.31
1166.00	3.26
1166.20	3.21
1166.40	3.16
1166.60	3.12
1166.80	3.07
1167.00	3.03
1167.20	2.99
1167.40	2.96
1167.60	2.92
1167.80	2.89
1168.00	2.85
1168.20	2.82
1168.40	2.79
1168.60	2.76
1168.80	2.73
1169.00	2.70
1169.20	2.67
1169.40	2.65
1169.60	2.62
1169.80	2.60
1170.00	2.57
1170.20	2.55
1170.40	2.53
1170.60	2.50
1170.80	2.48
1171.00	2.46
1171.20	2.44
1171.40	2.42
1171.60	2.40
1171.80	2.38
1172.00	2.36

1172.20	2.34
1172.40	2.32
1172.60	2.31
1172.80	2.29
1173.00	2.27
1173.20	2.26
1173.40	2.24
1173.60	2.23
1173.80	2.21
1174.00	2.19
1174.20	2.18
1174.40	2.17
1174.60	2.15
1174.80	2.14
1175.00	2.12
1175.20	2.11
1175.40	2.10
1175.60	2.08
1175.80	2.07
1176.00	2.06
1176.20	2.05
1176.40	2.04
1176.60	2.02
1176.80	2.01
1177.00	2.00
1177.20	1.99
1177.40	1.98
1177.60	1.97
1177.80	1.96
1178.00	1.95
1178.20	1.94
1178.40	1.93
1178.60	1.92
1178.80	1.91
1179.00	1.90
1179.20	1.89
1179.40	1.88
1179.60	1.87
1179.80	1.86
1180.00	1.85
1180.20	1.84
1180.40	1.83
1180.60	1.82
1180.80	1.82
1181.00	1.81
1181.20	1.80
1181.40	1.79
1181.60	1.78
1181.80	1.77
1182.00	1.77
1182.20	1.76
1182.40	1.75
1182.60	1.74
1182.80	1.73
1183.00	1.72
1183.20	1.71
1183.40	1.71
1183.60	1.70
1183.80	1.69
1184.00	1.68
1184.20	1.67
1184.40	1.67
1184.60	1.66
1184.80	1.65
1185.00	1.64
1185.20	1.64

1185.40	1.63
1185.60	1.62
1185.80	1.61
1186.00	1.61
1186.20	1.60
1186.40	1.59
1186.60	1.59
1186.80	1.58
1187.00	1.57
1187.20	1.57
1187.40	1.56
1187.60	1.55
1187.80	1.55
1188.00	1.54
1188.20	1.54
1188.40	1.53
1188.60	1.52
1188.80	1.52
1189.00	1.51
1189.20	1.51
1189.40	1.50
1189.60	1.49
1189.80	1.49
1190.00	1.48
1190.20	1.48
1190.40	1.47
1190.60	1.47
1190.80	1.46
1191.00	1.46
1191.20	1.45
1191.40	1.44
1191.60	1.44
1191.80	1.43
1192.00	1.43
1192.20	1.42
1192.40	1.42
1192.60	1.41
1192.80	1.41
1193.00	1.40
1193.20	1.40
1193.40	1.40
1193.60	1.39
1193.80	1.39
1194.00	1.38
1194.20	1.38
1194.40	1.37
1194.60	1.37
1194.80	1.36
1195.00	1.36
1195.20	1.35
1195.40	1.35
1195.60	1.35
1195.80	1.34
1196.00	1.34
1196.20	1.33
1196.40	1.33
1196.60	1.32
1196.80	1.32
1197.00	1.32
1197.20	1.31
1197.40	1.31
1197.60	1.30
1197.80	1.30
1198.00	1.30
1198.20	1.29
1198.40	1.29

1198.60	1.29
1198.80	1.28
1199.00	1.28
1199.20	1.27
1199.40	1.27
1199.60	1.27
1199.80	1.26
1200.00	1.26
1200.20	1.26
1200.40	1.25
1200.60	1.25
1200.80	1.25
1201.00	1.24
1201.20	1.24
1201.40	1.24
1201.60	1.23
1201.80	1.23
1202.00	1.23
1202.20	1.22
1202.40	1.22
1202.60	1.22
1202.80	1.21
1203.00	1.21
1203.20	1.21
1203.40	1.20
1203.60	1.20
1203.80	1.20
1204.00	1.19
1204.20	1.19
1204.40	1.19
1204.60	1.19
1204.80	1.18
1205.00	1.18
1205.20	1.18
1205.40	1.17
1205.60	1.17
1205.80	1.17
1206.00	1.16
1206.20	1.16
1206.40	1.16
1206.60	1.16
1206.80	1.15
1207.00	1.15
1207.20	1.15
1207.40	1.15
1207.60	1.14
1207.80	1.14
1208.00	1.14
1208.20	1.13
1208.40	1.13
1208.60	1.13
1208.80	1.13
1209.00	1.12
1209.20	1.12
1209.40	1.12
1209.60	1.12
1209.80	1.11
1210.00	1.11
1210.20	1.11
1210.40	1.11
1210.60	1.10
1210.80	1.10
1211.00	1.10
1211.20	1.10
1211.40	1.09
1211.60	1.09

1211.80	1.09
1212.00	1.09
1212.20	1.08
1212.40	1.08
1212.60	1.08
1212.80	1.08
1213.00	1.08
1213.20	1.07
1213.40	1.07
1213.60	1.07
1213.80	1.07
1214.00	1.06
1214.20	1.06
1214.40	1.06
1214.60	1.06
1214.80	1.06
1215.00	1.05
1215.20	1.05
1215.40	1.05
1215.60	1.05
1215.80	1.04
1216.00	1.04
1216.20	1.04
1216.40	1.04
1216.60	1.04
1216.80	1.03
1217.00	1.03
1217.20	1.03
1217.40	1.03
1217.60	1.03
1217.80	1.02
1218.00	1.02
1218.20	1.02
1218.40	1.02
1218.60	1.02
1218.80	1.01
1219.00	1.01
1219.20	1.01
1219.40	1.01
1219.60	1.01
1219.80	1.01
1220.00	1.00
1220.20	1.00
1220.40	1.00
1220.60	1.00
1220.80	1.00
1221.00	0.99
1221.20	0.99
1221.40	0.99
1221.60	0.99
1221.80	0.99
1222.00	0.98
1222.20	0.98
1222.40	0.98
1222.60	0.98
1222.80	0.98
1223.00	0.98
1223.20	0.97
1223.40	0.97
1223.60	0.97
1223.80	0.97
1224.00	0.97
1224.20	0.97
1224.40	0.96
1224.60	0.96
1224.80	0.96

1225.00	0.96
1225.20	0.96
1225.40	0.96
1225.60	0.95
1225.80	0.95
1226.00	0.95
1226.20	0.95
1226.40	0.95
1226.60	0.95
1226.80	0.94
1227.00	0.94
1227.20	0.94
1227.40	0.94
1227.60	0.94
1227.80	0.94
1228.00	0.94
1228.20	0.93
1228.40	0.93
1228.60	0.93
1228.80	0.93
1229.00	0.93
1229.20	0.93
1229.40	0.92
1229.60	0.92
1229.80	0.92
1230.00	0.92
1230.20	0.92
1230.40	0.92
1230.60	0.92
1230.80	0.91
1231.00	0.91
1231.20	0.91
1231.40	0.91
1231.60	0.91
1231.80	0.91
1232.00	0.91
1232.20	0.90
1232.40	0.90
1232.60	0.90
1232.80	0.90
1233.00	0.90
1233.20	0.90
1233.40	0.90
1233.60	0.90
1233.80	0.89
1234.00	0.89
1234.20	0.89
1234.40	0.89
1234.60	0.89
1234.80	0.89
1235.00	0.89
1235.20	0.88
1235.40	0.88
1235.60	0.88
1235.80	0.88
1236.00	0.88
1236.20	0.88
1236.40	0.88
1236.60	0.88
1236.80	0.87
1237.00	0.87
1237.20	0.87
1237.40	0.87
1237.60	0.87
1237.80	0.87
1238.00	0.87

1238.20	0.86
1238.40	0.86
1238.60	0.86
1238.80	0.86
1239.00	0.86
1239.20	0.86
1239.40	0.85
1239.60	0.85
1239.80	0.85
1240.00	0.85
1240.20	0.85
1240.40	0.85
1240.60	0.84
1240.80	0.84
1241.00	0.84
1241.20	0.84
1241.40	0.84
1241.60	0.84
1241.80	0.84
1242.00	0.83
1242.20	0.83
1242.40	0.83
1242.60	0.83
1242.80	0.83
1243.00	0.83
1243.20	0.83
1243.40	0.82
1243.60	0.82
1243.80	0.82
1244.00	0.82
1244.20	0.82
1244.40	0.82
1244.60	0.82
1244.80	0.81
1245.00	0.81
1245.20	0.81
1245.40	0.81
1245.60	0.81
1245.80	0.81
1246.00	0.81
1246.20	0.81
1246.40	0.80
1246.60	0.80
1246.80	0.80
1247.00	0.80
1247.20	0.80
1247.40	0.80
1247.60	0.80
1247.80	0.79
1248.00	0.79
1248.20	0.79
1248.40	0.79
1248.60	0.79
1248.80	0.79
1249.00	0.79
1249.20	0.79
1249.40	0.78
1249.60	0.78
1249.80	0.78
1250.00	0.78
1250.20	0.78
1250.40	0.78
1250.60	0.78
1250.80	0.78
1251.00	0.77
1251.20	0.77

1251.40	0.77
1251.60	0.77
1251.80	0.77
1252.00	0.77
1252.20	0.77
1252.40	0.77
1252.60	0.76
1252.80	0.76
1253.00	0.76
1253.20	0.76
1253.40	0.76
1253.60	0.76
1253.80	0.76
1254.00	0.76
1254.20	0.76
1254.40	0.75
1254.60	0.75
1254.80	0.75
1255.00	0.75
1255.20	0.75
1255.40	0.75
1255.60	0.75
1255.80	0.75
1256.00	0.75
1256.20	0.74
1256.40	0.74
1256.60	0.74
1256.80	0.74
1257.00	0.74
1257.20	0.74
1257.40	0.74
1257.60	0.74
1257.80	0.74
1258.00	0.73
1258.20	0.73
1258.40	0.73
1258.60	0.73
1258.80	0.73
1259.00	0.73
1259.20	0.73
1259.40	0.73
1259.60	0.73
1259.80	0.72
1260.00	0.72
1260.20	0.72
1260.40	0.72
1260.60	0.72
1260.80	0.72
1261.00	0.72
1261.20	0.72
1261.40	0.72
1261.60	0.72
1261.80	0.71
1262.00	0.71
1262.20	0.71
1262.40	0.71
1262.60	0.71
1262.80	0.71
1263.00	0.71
1263.20	0.71
1263.40	0.71
1263.60	0.71
1263.80	0.70
1264.00	0.70
1264.20	0.70
1264.40	0.70

1264.60	0.70
1264.80	0.70
1265.00	0.70
1265.20	0.70
1265.40	0.70
1265.60	0.70
1265.80	0.70
1266.00	0.69
1266.20	0.69
1266.40	0.69
1266.60	0.69
1266.80	0.69
1267.00	0.69
1267.20	0.69
1267.40	0.69
1267.60	0.69
1267.80	0.69
1268.00	0.69
1268.20	0.68
1268.40	0.68
1268.60	0.68
1268.80	0.68
1269.00	0.68
1269.20	0.68
1269.40	0.68
1269.60	0.68
1269.80	0.68
1270.00	0.68
1270.20	0.68
1270.40	0.67
1270.60	0.67
1270.80	0.67
1271.00	0.67
1271.20	0.67
1271.40	0.67
1271.60	0.67
1271.80	0.67
1272.00	0.67
1272.20	0.67
1272.40	0.67
1272.60	0.67
1272.80	0.66
1273.00	0.66
1273.20	0.66
1273.40	0.66
1273.60	0.66
1273.80	0.66
1274.00	0.66
1274.20	0.66
1274.40	0.66
1274.60	0.66
1274.80	0.66
1275.00	0.66
1275.20	0.65
1275.40	0.65
1275.60	0.65
1275.80	0.65
1276.00	0.65
1276.20	0.65
1276.40	0.65
1276.60	0.65
1276.80	0.65
1277.00	0.65
1277.20	0.65
1277.40	0.65
1277.60	0.65

1277.80	0.64
1278.00	0.64
1278.20	0.64
1278.40	0.64
1278.60	0.64
1278.80	0.64
1279.00	0.64
1279.20	0.64
1279.40	0.64
1279.60	0.64
1279.80	0.64
1280.00	0.64
1280.20	0.64
1280.40	0.63
1280.60	0.63
1280.80	0.63
1281.00	0.63
1281.20	0.63
1281.40	0.63
1281.60	0.63
1281.80	0.63
1282.00	0.63
1282.20	0.63
1282.40	0.63
1282.60	0.63
1282.80	0.63
1283.00	0.62
1283.20	0.62
1283.40	0.62
1283.60	0.62
1283.80	0.62
1284.00	0.62
1284.20	0.62
1284.40	0.62
1284.60	0.62
1284.80	0.62
1285.00	0.62
1285.20	0.62
1285.40	0.62
1285.60	0.62
1285.80	0.61
1286.00	0.61
1286.20	0.61
1286.40	0.61
1286.60	0.61
1286.80	0.61
1287.00	0.61
1287.20	0.61
1287.40	0.61
1287.60	0.61
1287.80	0.61
1288.00	0.61
1288.20	0.61
1288.40	0.61
1288.60	0.61
1288.80	0.60
1289.00	0.60
1289.20	0.60
1289.40	0.60
1289.60	0.60
1289.80	0.60
1290.00	0.60
1290.20	0.60
1290.40	0.60
1290.60	0.60
1290.80	0.60

1291.00	0.60
1291.20	0.60
1291.40	0.60
1291.60	0.60
1291.80	0.60
1292.00	0.59
1292.20	0.59
1292.40	0.59
1292.60	0.59
1292.80	0.59
1293.00	0.59
1293.20	0.59
1293.40	0.59
1293.60	0.59
1293.80	0.59
1294.00	0.59
1294.20	0.59
1294.40	0.59
1294.60	0.59
1294.80	0.59
1295.00	0.59
1295.20	0.58
1295.40	0.58
1295.60	0.58
1295.80	0.58
1296.00	0.58
1296.20	0.58
1296.40	0.58
1296.60	0.58
1296.80	0.58
1297.00	0.58
1297.20	0.58
1297.40	0.58
1297.60	0.58
1297.80	0.58
1298.00	0.58
1298.20	0.58
1298.40	0.58
1298.60	0.57
1298.80	0.57
1299.00	0.57
1299.20	0.57
1299.40	0.57
1299.60	0.57
1299.80	0.57
1300.00	0.57
1300.20	0.57
1300.40	0.57
1300.60	0.57
1300.80	0.57
1301.00	0.57
1301.20	0.57
1301.40	0.57
1301.60	0.57
1301.80	0.57
1302.00	0.56
1302.20	0.56
1302.40	0.56
1302.60	0.56
1302.80	0.56
1303.00	0.56
1303.20	0.56
1303.40	0.56
1303.60	0.56
1303.80	0.56
1304.00	0.56

1304.20	0.56
1304.40	0.56
1304.60	0.56
1304.80	0.56
1305.00	0.56
1305.20	0.56
1305.40	0.56
1305.60	0.56
1305.80	0.55
1306.00	0.55
1306.20	0.55
1306.40	0.55
1306.60	0.55
1306.80	0.55
1307.00	0.55
1307.20	0.55
1307.40	0.55
1307.60	0.55
1307.80	0.55
1308.00	0.55
1308.20	0.55
1308.40	0.55
1308.60	0.55
1308.80	0.55
1309.00	0.55
1309.20	0.55
1309.40	0.55
1309.60	0.54
1309.80	0.54
1310.00	0.54
1310.20	0.54
1310.40	0.54
1310.60	0.54
1310.80	0.54
1311.00	0.54
1311.20	0.54
1311.40	0.54
1311.60	0.54
1311.80	0.54
1312.00	0.54
1312.20	0.54
1312.40	0.54
1312.60	0.54
1312.80	0.54
1313.00	0.54
1313.20	0.54
1313.40	0.54
1313.60	0.53
1313.80	0.53
1314.00	0.53
1314.20	0.53
1314.40	0.53
1314.60	0.53
1314.80	0.53
1315.00	0.53
1315.20	0.53
1315.40	0.53
1315.60	0.53
1315.80	0.53
1316.00	0.53
1316.20	0.53
1316.40	0.53
1316.60	0.53
1316.80	0.53
1317.00	0.53
1317.20	0.53

1317.40	0.53
1317.60	0.53
1317.80	0.52
1318.00	0.52
1318.20	0.52
1318.40	0.52
1318.60	0.52
1318.80	0.52
1319.00	0.52
1319.20	0.52
1319.40	0.52
1319.60	0.52
1319.80	0.52
1320.00	0.52
1320.20	0.52
1320.40	0.52
1320.60	0.52
1320.80	0.52
1321.00	0.52
1321.20	0.52
1321.40	0.52
1321.60	0.52
1321.80	0.52
1322.00	0.52
1322.20	0.51
1322.40	0.51
1322.60	0.51
1322.80	0.51
1323.00	0.51
1323.20	0.51
1323.40	0.51
1323.60	0.51
1323.80	0.51
1324.00	0.51
1324.20	0.51
1324.40	0.51
1324.60	0.51
1324.80	0.51
1325.00	0.51
1325.20	0.51
1325.40	0.51
1325.60	0.51
1325.80	0.51
1326.00	0.51
1326.20	0.51
1326.40	0.51
1326.60	0.51
1326.80	0.50
1327.00	0.50
1327.20	0.50
1327.40	0.50
1327.60	0.50
1327.80	0.50
1328.00	0.50
1328.20	0.50
1328.40	0.50
1328.60	0.50
1328.80	0.50
1329.00	0.50
1329.20	0.50
1329.40	0.50
1329.60	0.50
1329.80	0.50
1330.00	0.50
1330.20	0.50
1330.40	0.50

1330.60	0.50
1330.80	0.50
1331.00	0.50
1331.20	0.50
1331.40	0.50
1331.60	0.49
1331.80	0.49
1332.00	0.49
1332.20	0.49
1332.40	0.49
1332.60	0.49
1332.80	0.49
1333.00	0.49
1333.20	0.49
1333.40	0.49
1333.60	0.49
1333.80	0.49
1334.00	0.49
1334.20	0.49
1334.40	0.49
1334.60	0.49
1334.80	0.49
1335.00	0.49
1335.20	0.49
1335.40	0.49
1335.60	0.49
1335.80	0.49
1336.00	0.49
1336.20	0.49
1336.40	0.49
1336.60	0.49
1336.80	0.48
1337.00	0.48
1337.20	0.48
1337.40	0.48
1337.60	0.48
1337.80	0.48
1338.00	0.48
1338.20	0.48
1338.40	0.48
1338.60	0.48
1338.80	0.48
1339.00	0.48
1339.20	0.48
1339.40	0.48
1339.60	0.48
1339.80	0.48
1340.00	0.48
1340.20	0.48
1340.40	0.48
1340.60	0.48
1340.80	0.48
1341.00	0.48
1341.20	0.48
1341.40	0.48
1341.60	0.48
1341.80	0.48
1342.00	0.48
1342.20	0.47
1342.40	0.47
1342.60	0.47
1342.80	0.47
1343.00	0.47
1343.20	0.47
1343.40	0.47
1343.60	0.47

1343.80	0.47
1344.00	0.47
1344.20	0.47
1344.40	0.47
1344.60	0.47
1344.80	0.47
1345.00	0.47
1345.20	0.47
1345.40	0.47
1345.60	0.47
1345.80	0.47
1346.00	0.47
1346.20	0.47
1346.40	0.47
1346.60	0.47
1346.80	0.47
1347.00	0.47
1347.20	0.47
1347.40	0.47
1347.60	0.47
1347.80	0.47
1348.00	0.46
1348.20	0.46
1348.40	0.46
1348.60	0.46
1348.80	0.46
1349.00	0.46
1349.20	0.46
1349.40	0.46
1349.60	0.46
1349.80	0.46
1350.00	0.46
1350.20	0.46
1350.40	0.46
1350.60	0.46
1350.80	0.46
1351.00	0.46
1351.20	0.46
1351.40	0.46
1351.60	0.46
1351.80	0.46
1352.00	0.46
1352.20	0.46
1352.40	0.46
1352.60	0.46
1352.80	0.46
1353.00	0.46
1353.20	0.46
1353.40	0.46
1353.60	0.46
1353.80	0.46
1354.00	0.45
1354.20	0.45
1354.40	0.45
1354.60	0.45
1354.80	0.45
1355.00	0.45
1355.20	0.45
1355.40	0.45
1355.60	0.45
1355.80	0.45
1356.00	0.45
1356.20	0.45
1356.40	0.45
1356.60	0.45
1356.80	0.45

1357.00	0.45
1357.20	0.45
1357.40	0.45
1357.60	0.45
1357.80	0.45
1358.00	0.45
1358.20	0.45
1358.40	0.45
1358.60	0.45
1358.80	0.45
1359.00	0.45
1359.20	0.45
1359.40	0.45
1359.60	0.45
1359.80	0.45
1360.00	0.45
1360.20	0.45
1360.40	0.44
1360.60	0.44
1360.80	0.44
1361.00	0.44
1361.20	0.44
1361.40	0.44
1361.60	0.44
1361.80	0.44
1362.00	0.44
1362.20	0.44
1362.40	0.44
1362.60	0.44
1362.80	0.44
1363.00	0.44
1363.20	0.44
1363.40	0.44
1363.60	0.44
1363.80	0.44
1364.00	0.44
1364.20	0.44
1364.40	0.44
1364.60	0.44
1364.80	0.44
1365.00	0.44
1365.20	0.44
1365.40	0.44
1365.60	0.44
1365.80	0.44
1366.00	0.44
1366.20	0.44
1366.40	0.44
1366.60	0.44
1366.80	0.44
1367.00	0.43
1367.20	0.43
1367.40	0.43
1367.60	0.43
1367.80	0.43
1368.00	0.43
1368.20	0.43
1368.40	0.43
1368.60	0.43
1368.80	0.43
1369.00	0.43
1369.20	0.43
1369.40	0.43
1369.60	0.43
1369.80	0.43
1370.00	0.43

1370.20	0.43
1370.40	0.43
1370.60	0.43
1370.80	0.43
1371.00	0.43
1371.20	0.43
1371.40	0.43
1371.60	0.43
1371.80	0.43
1372.00	0.43
1372.20	0.43
1372.40	0.43
1372.60	0.43
1372.80	0.43
1373.00	0.43
1373.20	0.43
1373.40	0.43
1373.60	0.43
1373.80	0.43
1374.00	0.43
1374.20	0.42
1374.40	0.42
1374.60	0.42
1374.80	0.42
1375.00	0.42
1375.20	0.42
1375.40	0.42
1375.60	0.42
1375.80	0.42
1376.00	0.42
1376.20	0.42
1376.40	0.42
1376.60	0.42
1376.80	0.42
1377.00	0.42
1377.20	0.42
1377.40	0.42
1377.60	0.42
1377.80	0.42
1378.00	0.42
1378.20	0.42
1378.40	0.42
1378.60	0.42
1378.80	0.42
1379.00	0.42
1379.20	0.42
1379.40	0.42
1379.60	0.42
1379.80	0.42
1380.00	0.42
1380.20	0.42
1380.40	0.42
1380.60	0.42
1380.80	0.42
1381.00	0.42
1381.20	0.42
1381.40	0.42
1381.60	0.42
1381.80	0.41
1382.00	0.41
1382.20	0.41
1382.40	0.41
1382.60	0.41
1382.80	0.41
1383.00	0.41
1383.20	0.41

1383.40	0.41
1383.60	0.41
1383.80	0.41
1384.00	0.41
1384.20	0.41
1384.40	0.41
1384.60	0.41
1384.80	0.41
1385.00	0.41
1385.20	0.41
1385.40	0.41
1385.60	0.41
1385.80	0.41
1386.00	0.41
1386.20	0.41
1386.40	0.41
1386.60	0.41
1386.80	0.41
1387.00	0.41
1387.20	0.41
1387.40	0.41
1387.60	0.41
1387.80	0.41
1388.00	0.41
1388.20	0.41
1388.40	0.41
1388.60	0.41
1388.80	0.41
1389.00	0.41
1389.20	0.41
1389.40	0.41
1389.60	0.41
1389.80	0.41
1390.00	0.40
1390.20	0.40
1390.40	0.40
1390.60	0.40
1390.80	0.40
1391.00	0.40
1391.20	0.40
1391.40	0.40
1391.60	0.40
1391.80	0.40
1392.00	0.40
1392.20	0.40
1392.40	0.40
1392.60	0.40
1392.80	0.40
1393.00	0.40
1393.20	0.40
1393.40	0.40
1393.60	0.40
1393.80	0.40
1394.00	0.40
1394.20	0.40
1394.40	0.40
1394.60	0.40
1394.80	0.40
1395.00	0.40
1395.20	0.40
1395.40	0.40
1395.60	0.40
1395.80	0.40
1396.00	0.40
1396.20	0.40
1396.40	0.40

1396.60	0.40
1396.80	0.40
1397.00	0.40
1397.20	0.40
1397.40	0.40
1397.60	0.40
1397.80	0.40
1398.00	0.40
1398.20	0.40
1398.40	0.40
1398.60	0.39
1398.80	0.39
1399.00	0.39
1399.20	0.39
1399.40	0.39
1399.60	0.39
1399.80	0.39
1400.00	0.39
1400.20	0.39
1400.40	0.39
1400.60	0.39
1400.80	0.39
1401.00	0.39
1401.20	0.39
1401.40	0.39
1401.60	0.39
1401.80	0.39
1402.00	0.39
1402.20	0.39
1402.40	0.39
1402.60	0.39
1402.80	0.39
1403.00	0.39
1403.20	0.39
1403.40	0.39
1403.60	0.39
1403.80	0.39
1404.00	0.39
1404.20	0.39
1404.40	0.39
1404.60	0.39
1404.80	0.39
1405.00	0.39
1405.20	0.39
1405.40	0.39
1405.60	0.39
1405.80	0.39
1406.00	0.39
1406.20	0.39
1406.40	0.39
1406.60	0.39
1406.80	0.39
1407.00	0.39
1407.20	0.39
1407.40	0.39
1407.60	0.38
1407.80	0.38
1408.00	0.38
1408.20	0.38
1408.40	0.38
1408.60	0.38
1408.80	0.38
1409.00	0.38
1409.20	0.38
1409.40	0.38
1409.60	0.38

1409.80	0.38
1410.00	0.38
1410.20	0.38
1410.40	0.38
1410.60	0.38
1410.80	0.38
1411.00	0.38
1411.20	0.38
1411.40	0.38
1411.60	0.38
1411.80	0.38
1412.00	0.38
1412.20	0.38
1412.40	0.38
1412.60	0.38
1412.80	0.38
1413.00	0.38
1413.20	0.38
1413.40	0.38
1413.60	0.38
1413.80	0.38
1414.00	0.38
1414.20	0.38
1414.40	0.38
1414.60	0.38
1414.80	0.38
1415.00	0.38
1415.20	0.38
1415.40	0.38
1415.60	0.38
1415.80	0.38
1416.00	0.38
1416.20	0.38
1416.40	0.38
1416.60	0.38
1416.80	0.38
1417.00	0.38
1417.20	0.38
1417.40	0.38
1417.60	0.37
1417.80	0.37
1418.00	0.37
1418.20	0.37
1418.40	0.37
1418.60	0.37
1418.80	0.37
1419.00	0.37
1419.20	0.37
1419.40	0.37
1419.60	0.37
1419.80	0.37
1420.00	0.37
1420.20	0.37
1420.40	0.37
1420.60	0.37
1420.80	0.37
1421.00	0.37
1421.20	0.37
1421.40	0.37
1421.60	0.37
1421.80	0.37
1422.00	0.37
1422.20	0.37
1422.40	0.37
1422.60	0.37
1422.80	0.37

1423.00	0.37
1423.20	0.37
1423.40	0.37
1423.60	0.37
1423.80	0.37
1424.00	0.37
1424.20	0.37
1424.40	0.37
1424.60	0.37
1424.80	0.37
1425.00	0.37
1425.20	0.37
1425.40	0.37
1425.60	0.37
1425.80	0.37
1426.00	0.37
1426.20	0.37
1426.40	0.37
1426.60	0.37
1426.80	0.37
1427.00	0.37
1427.20	0.37
1427.40	0.37
1427.60	0.37
1427.80	0.37
1428.00	0.36
1428.20	0.36
1428.40	0.36
1428.60	0.36
1428.80	0.36
1429.00	0.36
1429.20	0.36
1429.40	0.36
1429.60	0.36
1429.80	0.36
1430.00	0.36
1430.20	0.36
1430.40	0.36
1430.60	0.36
1430.80	0.36
1431.00	0.36
1431.20	0.36
1431.40	0.36
1431.60	0.36
1431.80	0.36
1432.00	0.36
1432.20	0.36
1432.40	0.36
1432.60	0.36
1432.80	0.36
1433.00	0.36
1433.20	0.36
1433.40	0.36
1433.60	0.36
1433.80	0.36
1434.00	0.36
1434.20	0.36
1434.40	0.36
1434.60	0.36
1434.80	0.36
1435.00	0.36
1435.20	0.36
1435.40	0.36
1435.60	0.36
1435.80	0.36
1436.00	0.36

1436.20	0.36
1436.40	0.36
1436.60	0.36
1436.80	0.36
1437.00	0.36
1437.20	0.36
1437.40	0.36
1437.60	0.36
1437.80	0.36
1438.00	0.36
1438.20	0.36
1438.40	0.36
1438.60	0.36
1438.80	0.36
1439.00	0.36
1439.20	0.35
1439.40	0.35
1439.60	0.35
1439.80	0.35
1440.00	0.35
1440.20	0.34
1440.40	0.33
1440.60	0.32
1440.80	0.32
1441.00	0.31
1441.20	0.30
1441.40	0.30
1441.60	0.29
1441.80	0.28
1442.00	0.28
1442.20	0.27
1442.40	0.26
1442.60	0.26
1442.80	0.25
1443.00	0.24
1443.20	0.23
1443.40	0.23
1443.60	0.22
1443.80	0.21
1444.00	0.21
1444.20	0.20
1444.40	0.19
1444.60	0.19
1444.80	0.18
1445.00	0.17
1445.20	0.17
1445.40	0.16
1445.60	0.15
1445.80	0.14
1446.00	0.14
1446.20	0.13
1446.40	0.12
1446.60	0.12
1446.80	0.11
1447.00	0.10
1447.20	0.10
1447.40	0.09
1447.60	0.08
1447.80	0.08
1448.00	0.07
1448.20	0.06
1448.40	0.05
1448.60	0.05
1448.80	0.04
1449.00	0.03
1449.20	0.03

1449.40	0.02
1449.60	0.01
1449.80	0.01
1450.00	0.00

Initial Storage = 0.0000 acre-ft

Detention Basin Result Parameters

Routed Hydrograph

Peak Outflow Discharge: 12.757 cfs, Time to Peak: 1158.20 (min), Total Outflow Volume
ft^3

Time min	Discharge cfs	Storage acre-ft
0.00	0.00	0.000000
0.20	0.00	0.000002
0.40	0.00	0.000006
0.60	0.00	0.000011
0.80	0.00	0.000018
1.00	0.00	0.000027
1.20	0.00	0.000037
1.40	0.01	0.000049
1.60	0.01	0.000062
1.80	0.01	0.000077
2.00	0.01	0.000093
2.20	0.01	0.000110
2.40	0.02	0.000129
2.60	0.02	0.000148
2.80	0.02	0.000169
3.00	0.03	0.000191
3.20	0.03	0.000214
3.40	0.03	0.000238
3.60	0.04	0.000263
3.80	0.04	0.000288
4.00	0.04	0.000315
4.20	0.05	0.000342
4.40	0.05	0.000371
4.60	0.06	0.000400
4.80	0.06	0.000430
5.00	0.06	0.000460
5.20	0.07	0.000492
5.40	0.07	0.000524
5.60	0.08	0.000556
5.80	0.08	0.000590
6.00	0.09	0.000623
6.20	0.09	0.000658
6.40	0.10	0.000693
6.60	0.10	0.000728
6.80	0.11	0.000764
7.00	0.11	0.000801
7.20	0.12	0.000838
7.40	0.12	0.000875
7.60	0.13	0.000913
7.80	0.13	0.000951
8.00	0.14	0.000990
8.20	0.15	0.001029
8.40	0.15	0.001068
8.60	0.16	0.001108
8.80	0.16	0.001148
9.00	0.17	0.001189
9.20	0.18	0.001230
9.40	0.18	0.001271
9.60	0.19	0.001312
9.80	0.19	0.001354
10.00	0.20	0.001396
10.20	0.20	0.001436
10.40	0.21	0.001474
10.60	0.22	0.001512

10.80	0.22	0.001547
11.00	0.23	0.001582
11.20	0.23	0.001615
11.40	0.24	0.001647
11.60	0.24	0.001677
11.80	0.24	0.001707
12.00	0.25	0.001735
12.20	0.25	0.001762
12.40	0.26	0.001788
12.60	0.26	0.001813
12.80	0.26	0.001837
13.00	0.27	0.001860
13.20	0.27	0.001883
13.40	0.27	0.001904
13.60	0.28	0.001924
13.80	0.28	0.001944
14.00	0.28	0.001963
14.20	0.29	0.001982
14.40	0.29	0.001999
14.60	0.29	0.002016
14.80	0.29	0.002032
15.00	0.30	0.002048
15.20	0.30	0.002063
15.40	0.30	0.002078
15.60	0.30	0.002091
15.80	0.31	0.002102
16.00	0.31	0.002113
16.20	0.32	0.002123
16.40	0.32	0.002131
16.60	0.32	0.002139
16.80	0.33	0.002146
17.00	0.33	0.002152
17.20	0.33	0.002158
17.40	0.33	0.002163
17.60	0.34	0.002168
17.80	0.34	0.002172
18.00	0.34	0.002175
18.20	0.34	0.002179
18.40	0.34	0.002182
18.60	0.34	0.002185
18.80	0.34	0.002187
19.00	0.34	0.002189
19.20	0.35	0.002191
19.40	0.35	0.002193
19.60	0.35	0.002195
19.80	0.35	0.002196
20.00	0.35	0.002198
20.20	0.35	0.002199
20.40	0.35	0.002200
20.60	0.35	0.002201
20.80	0.35	0.002202
21.00	0.35	0.002203
21.20	0.35	0.002204
21.40	0.35	0.002204
21.60	0.35	0.002205
21.80	0.35	0.002205
22.00	0.35	0.002206
22.20	0.35	0.002206
22.40	0.35	0.002207
22.60	0.35	0.002207
22.80	0.35	0.002208
23.00	0.35	0.002208
23.20	0.35	0.002208
23.40	0.35	0.002209
23.60	0.35	0.002209
23.80	0.35	0.002209

24.00	0.35	0.002210
24.20	0.35	0.002210
24.40	0.35	0.002210
24.60	0.35	0.002210
24.80	0.35	0.002210
25.00	0.35	0.002211
25.20	0.35	0.002211
25.40	0.35	0.002211
25.60	0.35	0.002211
25.80	0.35	0.002211
26.00	0.35	0.002212
26.20	0.35	0.002212
26.40	0.35	0.002212
26.60	0.35	0.002212
26.80	0.35	0.002212
27.00	0.35	0.002212
27.20	0.35	0.002212
27.40	0.35	0.002213
27.60	0.35	0.002213
27.80	0.35	0.002213
28.00	0.35	0.002213
28.20	0.35	0.002213
28.40	0.35	0.002213
28.60	0.35	0.002213
28.80	0.35	0.002213
29.00	0.35	0.002214
29.20	0.35	0.002214
29.40	0.35	0.002214
29.60	0.35	0.002214
29.80	0.35	0.002214
30.00	0.35	0.002214
30.20	0.35	0.002214
30.40	0.36	0.002214
30.60	0.36	0.002215
30.80	0.36	0.002215
31.00	0.36	0.002215
31.20	0.36	0.002215
31.40	0.36	0.002215
31.60	0.36	0.002215
31.80	0.36	0.002215
32.00	0.36	0.002215
32.20	0.36	0.002215
32.40	0.36	0.002216
32.60	0.36	0.002216
32.80	0.36	0.002216
33.00	0.36	0.002216
33.20	0.36	0.002216
33.40	0.36	0.002216
33.60	0.36	0.002216
33.80	0.36	0.002216
34.00	0.36	0.002216
34.20	0.36	0.002217
34.40	0.36	0.002217
34.60	0.36	0.002217
34.80	0.36	0.002217
35.00	0.36	0.002217
35.20	0.36	0.002217
35.40	0.36	0.002217
35.60	0.36	0.002217
35.80	0.36	0.002217
36.00	0.36	0.002218
36.20	0.36	0.002218
36.40	0.36	0.002218
36.60	0.36	0.002218
36.80	0.36	0.002218
37.00	0.36	0.002218

37.20	0.36	0.002218
37.40	0.36	0.002218
37.60	0.36	0.002218
37.80	0.36	0.002219
38.00	0.36	0.002219
38.20	0.36	0.002219
38.40	0.36	0.002219
38.60	0.36	0.002219
38.80	0.36	0.002219
39.00	0.36	0.002219
39.20	0.36	0.002219
39.40	0.36	0.002219
39.60	0.36	0.002220
39.80	0.36	0.002220
40.00	0.36	0.002220
40.20	0.36	0.002220
40.40	0.36	0.002220
40.60	0.36	0.002220
40.80	0.36	0.002220
41.00	0.36	0.002220
41.20	0.36	0.002220
41.40	0.36	0.002221
41.60	0.36	0.002221
41.80	0.36	0.002221
42.00	0.36	0.002221
42.20	0.36	0.002221
42.40	0.36	0.002221
42.60	0.36	0.002221
42.80	0.36	0.002221
43.00	0.36	0.002221
43.20	0.36	0.002222
43.40	0.36	0.002222
43.60	0.36	0.002222
43.80	0.36	0.002222
44.00	0.36	0.002222
44.20	0.36	0.002222
44.40	0.36	0.002222
44.60	0.36	0.002222
44.80	0.36	0.002223
45.00	0.36	0.002223
45.20	0.36	0.002223
45.40	0.36	0.002223
45.60	0.36	0.002223
45.80	0.36	0.002223
46.00	0.36	0.002223
46.20	0.36	0.002223
46.40	0.36	0.002223
46.60	0.36	0.002224
46.80	0.36	0.002224
47.00	0.36	0.002224
47.20	0.36	0.002224
47.40	0.36	0.002224
47.60	0.36	0.002224
47.80	0.36	0.002224
48.00	0.36	0.002224
48.20	0.36	0.002224
48.40	0.36	0.002225
48.60	0.36	0.002225
48.80	0.36	0.002225
49.00	0.36	0.002225
49.20	0.36	0.002225
49.40	0.36	0.002225
49.60	0.36	0.002225
49.80	0.36	0.002225
50.00	0.36	0.002225
50.20	0.36	0.002226

50.40	0.36	0.002226
50.60	0.36	0.002226
50.80	0.36	0.002226
51.00	0.36	0.002226
51.20	0.36	0.002226
51.40	0.36	0.002226
51.60	0.36	0.002226
51.80	0.36	0.002226
52.00	0.36	0.002227
52.20	0.36	0.002227
52.40	0.36	0.002227
52.60	0.36	0.002227
52.80	0.36	0.002227
53.00	0.36	0.002227
53.20	0.36	0.002227
53.40	0.36	0.002227
53.60	0.36	0.002228
53.80	0.36	0.002228
54.00	0.36	0.002228
54.20	0.36	0.002228
54.40	0.36	0.002228
54.60	0.36	0.002228
54.80	0.36	0.002228
55.00	0.36	0.002228
55.20	0.36	0.002228
55.40	0.36	0.002229
55.60	0.36	0.002229
55.80	0.36	0.002229
56.00	0.36	0.002229
56.20	0.36	0.002229
56.40	0.36	0.002229
56.60	0.36	0.002229
56.80	0.36	0.002229
57.00	0.36	0.002229
57.20	0.36	0.002230
57.40	0.36	0.002230
57.60	0.36	0.002230
57.80	0.36	0.002230
58.00	0.36	0.002230
58.20	0.36	0.002230
58.40	0.36	0.002230
58.60	0.36	0.002230
58.80	0.36	0.002231
59.00	0.36	0.002231
59.20	0.36	0.002231
59.40	0.36	0.002231
59.60	0.36	0.002231
59.80	0.36	0.002231
60.00	0.36	0.002231
60.20	0.36	0.002231
60.40	0.36	0.002231
60.60	0.36	0.002232
60.80	0.36	0.002232
61.00	0.36	0.002232
61.20	0.36	0.002232
61.40	0.36	0.002232
61.60	0.36	0.002232
61.80	0.36	0.002232
62.00	0.36	0.002232
62.20	0.36	0.002232
62.40	0.36	0.002233
62.60	0.36	0.002233
62.80	0.36	0.002233
63.00	0.36	0.002233
63.20	0.36	0.002233
63.40	0.36	0.002233

63.60	0.36	0.002233
63.80	0.36	0.002233
64.00	0.36	0.002234
64.20	0.36	0.002234
64.40	0.36	0.002234
64.60	0.36	0.002234
64.80	0.36	0.002234
65.00	0.36	0.002234
65.20	0.36	0.002234
65.40	0.36	0.002234
65.60	0.36	0.002234
65.80	0.36	0.002235
66.00	0.36	0.002235
66.20	0.36	0.002235
66.40	0.36	0.002235
66.60	0.36	0.002235
66.80	0.36	0.002235
67.00	0.36	0.002235
67.20	0.36	0.002235
67.40	0.36	0.002236
67.60	0.36	0.002236
67.80	0.36	0.002236
68.00	0.36	0.002236
68.20	0.36	0.002236
68.40	0.36	0.002236
68.60	0.36	0.002236
68.80	0.36	0.002236
69.00	0.36	0.002236
69.20	0.36	0.002237
69.40	0.36	0.002237
69.60	0.36	0.002237
69.80	0.36	0.002237
70.00	0.36	0.002237
70.20	0.36	0.002237
70.40	0.36	0.002237
70.60	0.36	0.002237
70.80	0.36	0.002238
71.00	0.36	0.002238
71.20	0.36	0.002238
71.40	0.36	0.002238
71.60	0.36	0.002238
71.80	0.36	0.002238
72.00	0.36	0.002238
72.20	0.36	0.002238
72.40	0.36	0.002238
72.60	0.36	0.002239
72.80	0.36	0.002239
73.00	0.36	0.002239
73.20	0.36	0.002239
73.40	0.36	0.002239
73.60	0.36	0.002239
73.80	0.36	0.002239
74.00	0.36	0.002239
74.20	0.36	0.002240
74.40	0.36	0.002240
74.60	0.36	0.002240
74.80	0.36	0.002240
75.00	0.36	0.002240
75.20	0.36	0.002240
75.40	0.36	0.002240
75.60	0.37	0.002240
75.80	0.37	0.002240
76.00	0.37	0.002241
76.20	0.37	0.002241
76.40	0.37	0.002241
76.60	0.37	0.002241

76.80	0.37	0.002241
77.00	0.37	0.002241
77.20	0.37	0.002241
77.40	0.37	0.002241
77.60	0.37	0.002242
77.80	0.37	0.002242
78.00	0.37	0.002242
78.20	0.37	0.002242
78.40	0.37	0.002242
78.60	0.37	0.002242
78.80	0.37	0.002242
79.00	0.37	0.002242
79.20	0.37	0.002243
79.40	0.37	0.002243
79.60	0.37	0.002243
79.80	0.37	0.002243
80.00	0.37	0.002243
80.20	0.37	0.002243
80.40	0.37	0.002243
80.60	0.37	0.002243
80.80	0.37	0.002243
81.00	0.37	0.002244
81.20	0.37	0.002244
81.40	0.37	0.002244
81.60	0.37	0.002244
81.80	0.37	0.002244
82.00	0.37	0.002244
82.20	0.37	0.002244
82.40	0.37	0.002244
82.60	0.37	0.002245
82.80	0.37	0.002245
83.00	0.37	0.002245
83.20	0.37	0.002245
83.40	0.37	0.002245
83.60	0.37	0.002245
83.80	0.37	0.002245
84.00	0.37	0.002245
84.20	0.37	0.002246
84.40	0.37	0.002246
84.60	0.37	0.002246
84.80	0.37	0.002246
85.00	0.37	0.002246
85.20	0.37	0.002246
85.40	0.37	0.002246
85.60	0.37	0.002246
85.80	0.37	0.002246
86.00	0.37	0.002247
86.20	0.37	0.002247
86.40	0.37	0.002247
86.60	0.37	0.002247
86.80	0.37	0.002247
87.00	0.37	0.002247
87.20	0.37	0.002247
87.40	0.37	0.002247
87.60	0.37	0.002248
87.80	0.37	0.002248
88.00	0.37	0.002248
88.20	0.37	0.002248
88.40	0.37	0.002248
88.60	0.37	0.002248
88.80	0.37	0.002248
89.00	0.37	0.002248
89.20	0.37	0.002249
89.40	0.37	0.002249
89.60	0.37	0.002249
89.80	0.37	0.002249

90.00	0.37	0.002249
90.20	0.37	0.002249
90.40	0.37	0.002249
90.60	0.37	0.002249
90.80	0.37	0.002250
91.00	0.37	0.002250
91.20	0.37	0.002250
91.40	0.37	0.002250
91.60	0.37	0.002250
91.80	0.37	0.002250
92.00	0.37	0.002250
92.20	0.37	0.002250
92.40	0.37	0.002251
92.60	0.37	0.002251
92.80	0.37	0.002251
93.00	0.37	0.002251
93.20	0.37	0.002251
93.40	0.37	0.002251
93.60	0.37	0.002251
93.80	0.37	0.002251
94.00	0.37	0.002251
94.20	0.37	0.002252
94.40	0.37	0.002252
94.60	0.37	0.002252
94.80	0.37	0.002252
95.00	0.37	0.002252
95.20	0.37	0.002252
95.40	0.37	0.002252
95.60	0.37	0.002252
95.80	0.37	0.002253
96.00	0.37	0.002253
96.20	0.37	0.002253
96.40	0.37	0.002253
96.60	0.37	0.002253
96.80	0.37	0.002253
97.00	0.37	0.002253
97.20	0.37	0.002253
97.40	0.37	0.002254
97.60	0.37	0.002254
97.80	0.37	0.002254
98.00	0.37	0.002254
98.20	0.37	0.002254
98.40	0.37	0.002254
98.60	0.37	0.002254
98.80	0.37	0.002254
99.00	0.37	0.002255
99.20	0.37	0.002255
99.40	0.37	0.002255
99.60	0.37	0.002255
99.80	0.37	0.002255
100.00	0.37	0.002255
100.20	0.37	0.002255
100.40	0.37	0.002255
100.60	0.37	0.002256
100.80	0.37	0.002256
101.00	0.37	0.002256
101.20	0.37	0.002256
101.40	0.37	0.002256
101.60	0.37	0.002256
101.80	0.37	0.002256
102.00	0.37	0.002256
102.20	0.37	0.002257
102.40	0.37	0.002257
102.60	0.37	0.002257
102.80	0.37	0.002257
103.00	0.37	0.002257

103.20	0.37	0.002257
103.40	0.37	0.002257
103.60	0.37	0.002257
103.80	0.37	0.002258
104.00	0.37	0.002258
104.20	0.37	0.002258
104.40	0.37	0.002258
104.60	0.37	0.002258
104.80	0.37	0.002258
105.00	0.37	0.002258
105.20	0.37	0.002258
105.40	0.37	0.002259
105.60	0.37	0.002259
105.80	0.37	0.002259
106.00	0.37	0.002259
106.20	0.37	0.002259
106.40	0.37	0.002259
106.60	0.37	0.002259
106.80	0.37	0.002259
107.00	0.37	0.002260
107.20	0.37	0.002260
107.40	0.37	0.002260
107.60	0.37	0.002260
107.80	0.37	0.002260
108.00	0.37	0.002260
108.20	0.37	0.002260
108.40	0.37	0.002260
108.60	0.37	0.002261
108.80	0.37	0.002261
109.00	0.37	0.002261
109.20	0.37	0.002261
109.40	0.37	0.002261
109.60	0.37	0.002261
109.80	0.37	0.002261
110.00	0.37	0.002261
110.20	0.37	0.002262
110.40	0.37	0.002262
110.60	0.37	0.002262
110.80	0.37	0.002262
111.00	0.37	0.002262
111.20	0.37	0.002262
111.40	0.37	0.002262
111.60	0.37	0.002262
111.80	0.37	0.002263
112.00	0.37	0.002263
112.20	0.37	0.002263
112.40	0.37	0.002263
112.60	0.37	0.002263
112.80	0.37	0.002263
113.00	0.37	0.002263
113.20	0.37	0.002263
113.40	0.37	0.002264
113.60	0.37	0.002264
113.80	0.37	0.002264
114.00	0.37	0.002264
114.20	0.37	0.002264
114.40	0.37	0.002264
114.60	0.37	0.002264
114.80	0.37	0.002264
115.00	0.37	0.002265
115.20	0.37	0.002265
115.40	0.37	0.002265
115.60	0.37	0.002265
115.80	0.37	0.002265
116.00	0.37	0.002265
116.20	0.37	0.002265

116.40	0.37	0.002265
116.60	0.37	0.002266
116.80	0.37	0.002266
117.00	0.37	0.002266
117.20	0.37	0.002266
117.40	0.37	0.002266
117.60	0.38	0.002266
117.80	0.38	0.002266
118.00	0.38	0.002266
118.20	0.38	0.002267
118.40	0.38	0.002267
118.60	0.38	0.002267
118.80	0.38	0.002267
119.00	0.38	0.002267
119.20	0.38	0.002267
119.40	0.38	0.002267
119.60	0.38	0.002267
119.80	0.38	0.002268
120.00	0.38	0.002268
120.20	0.38	0.002268
120.40	0.38	0.002268
120.60	0.38	0.002268
120.80	0.38	0.002268
121.00	0.38	0.002268
121.20	0.38	0.002268
121.40	0.38	0.002269
121.60	0.38	0.002269
121.80	0.38	0.002269
122.00	0.38	0.002269
122.20	0.38	0.002269
122.40	0.38	0.002269
122.60	0.38	0.002269
122.80	0.38	0.002270
123.00	0.38	0.002270
123.20	0.38	0.002270
123.40	0.38	0.002270
123.60	0.38	0.002270
123.80	0.38	0.002270
124.00	0.38	0.002270
124.20	0.38	0.002270
124.40	0.38	0.002271
124.60	0.38	0.002271
124.80	0.38	0.002271
125.00	0.38	0.002271
125.20	0.38	0.002271
125.40	0.38	0.002271
125.60	0.38	0.002271
125.80	0.38	0.002271
126.00	0.38	0.002272
126.20	0.38	0.002272
126.40	0.38	0.002272
126.60	0.38	0.002272
126.80	0.38	0.002272
127.00	0.38	0.002272
127.20	0.38	0.002272
127.40	0.38	0.002273
127.60	0.38	0.002273
127.80	0.38	0.002273
128.00	0.38	0.002273
128.20	0.38	0.002273
128.40	0.38	0.002273
128.60	0.38	0.002273
128.80	0.38	0.002273
129.00	0.38	0.002274
129.20	0.38	0.002274
129.40	0.38	0.002274

129.60	0.38	0.002274
129.80	0.38	0.002274
130.00	0.38	0.002274
130.20	0.38	0.002274
130.40	0.38	0.002274
130.60	0.38	0.002275
130.80	0.38	0.002275
131.00	0.38	0.002275
131.20	0.38	0.002275
131.40	0.38	0.002275
131.60	0.38	0.002275
131.80	0.38	0.002275
132.00	0.38	0.002275
132.20	0.38	0.002276
132.40	0.38	0.002276
132.60	0.38	0.002276
132.80	0.38	0.002276
133.00	0.38	0.002276
133.20	0.38	0.002276
133.40	0.38	0.002276
133.60	0.38	0.002277
133.80	0.38	0.002277
134.00	0.38	0.002277
134.20	0.38	0.002277
134.40	0.38	0.002277
134.60	0.38	0.002277
134.80	0.38	0.002277
135.00	0.38	0.002277
135.20	0.38	0.002278
135.40	0.38	0.002278
135.60	0.38	0.002278
135.80	0.38	0.002278
136.00	0.38	0.002278
136.20	0.38	0.002278
136.40	0.38	0.002278
136.60	0.38	0.002279
136.80	0.38	0.002279
137.00	0.38	0.002279
137.20	0.38	0.002279
137.40	0.38	0.002279
137.60	0.38	0.002279
137.80	0.38	0.002279
138.00	0.38	0.002279
138.20	0.38	0.002280
138.40	0.38	0.002280
138.60	0.38	0.002280
138.80	0.38	0.002280
139.00	0.38	0.002280
139.20	0.38	0.002280
139.40	0.38	0.002280
139.60	0.38	0.002281
139.80	0.38	0.002281
140.00	0.38	0.002281
140.20	0.38	0.002281
140.40	0.38	0.002281
140.60	0.38	0.002281
140.80	0.38	0.002281
141.00	0.38	0.002281
141.20	0.38	0.002282
141.40	0.38	0.002282
141.60	0.38	0.002282
141.80	0.38	0.002282
142.00	0.38	0.002282
142.20	0.38	0.002282
142.40	0.38	0.002282
142.60	0.38	0.002282

142.80	0.38	0.002283
143.00	0.38	0.002283
143.20	0.38	0.002283
143.40	0.38	0.002283
143.60	0.38	0.002283
143.80	0.38	0.002283
144.00	0.38	0.002283
144.20	0.38	0.002284
144.40	0.38	0.002284
144.60	0.38	0.002284
144.80	0.38	0.002284
145.00	0.38	0.002284
145.20	0.38	0.002284
145.40	0.38	0.002284
145.60	0.38	0.002285
145.80	0.38	0.002285
146.00	0.38	0.002285
146.20	0.38	0.002285
146.40	0.38	0.002285
146.60	0.38	0.002285
146.80	0.38	0.002285
147.00	0.38	0.002285
147.20	0.38	0.002286
147.40	0.38	0.002286
147.60	0.38	0.002286
147.80	0.38	0.002286
148.00	0.38	0.002286
148.20	0.38	0.002286
148.40	0.38	0.002286
148.60	0.38	0.002287
148.80	0.38	0.002287
149.00	0.38	0.002287
149.20	0.38	0.002287
149.40	0.38	0.002287
149.60	0.38	0.002287
149.80	0.38	0.002287
150.00	0.38	0.002287
150.20	0.38	0.002288
150.40	0.38	0.002288
150.60	0.38	0.002288
150.80	0.38	0.002288
151.00	0.38	0.002288
151.20	0.38	0.002288
151.40	0.38	0.002288
151.60	0.38	0.002289
151.80	0.38	0.002289
152.00	0.38	0.002289
152.20	0.38	0.002289
152.40	0.38	0.002289
152.60	0.38	0.002289
152.80	0.38	0.002289
153.00	0.38	0.002289
153.20	0.38	0.002290
153.40	0.38	0.002290
153.60	0.38	0.002290
153.80	0.38	0.002290
154.00	0.38	0.002290
154.20	0.38	0.002290
154.40	0.38	0.002290
154.60	0.38	0.002291
154.80	0.38	0.002291
155.00	0.38	0.002291
155.20	0.38	0.002291
155.40	0.38	0.002291
155.60	0.38	0.002291
155.80	0.38	0.002291

156.00	0.38	0.002292
156.20	0.38	0.002292
156.40	0.38	0.002292
156.60	0.38	0.002292
156.80	0.39	0.002292
157.00	0.39	0.002292
157.20	0.39	0.002292
157.40	0.39	0.002292
157.60	0.39	0.002293
157.80	0.39	0.002293
158.00	0.39	0.002293
158.20	0.39	0.002293
158.40	0.39	0.002293
158.60	0.39	0.002293
158.80	0.39	0.002293
159.00	0.39	0.002294
159.20	0.39	0.002294
159.40	0.39	0.002294
159.60	0.39	0.002294
159.80	0.39	0.002294
160.00	0.39	0.002294
160.20	0.39	0.002294
160.40	0.39	0.002295
160.60	0.39	0.002295
160.80	0.39	0.002295
161.00	0.39	0.002295
161.20	0.39	0.002295
161.40	0.39	0.002295
161.60	0.39	0.002295
161.80	0.39	0.002296
162.00	0.39	0.002296
162.20	0.39	0.002296
162.40	0.39	0.002296
162.60	0.39	0.002296
162.80	0.39	0.002296
163.00	0.39	0.002296
163.20	0.39	0.002296
163.40	0.39	0.002297
163.60	0.39	0.002297
163.80	0.39	0.002297
164.00	0.39	0.002297
164.20	0.39	0.002297
164.40	0.39	0.002297
164.60	0.39	0.002297
164.80	0.39	0.002298
165.00	0.39	0.002298
165.20	0.39	0.002298
165.40	0.39	0.002298
165.60	0.39	0.002298
165.80	0.39	0.002298
166.00	0.39	0.002298
166.20	0.39	0.002299
166.40	0.39	0.002299
166.60	0.39	0.002299
166.80	0.39	0.002299
167.00	0.39	0.002299
167.20	0.39	0.002299
167.40	0.39	0.002299
167.60	0.39	0.002300
167.80	0.39	0.002300
168.00	0.39	0.002300
168.20	0.39	0.002300
168.40	0.39	0.002300
168.60	0.39	0.002300
168.80	0.39	0.002300
169.00	0.39	0.002300

169.20	0.39	0.002301
169.40	0.39	0.002301
169.60	0.39	0.002301
169.80	0.39	0.002301
170.00	0.39	0.002301
170.20	0.39	0.002301
170.40	0.39	0.002301
170.60	0.39	0.002302
170.80	0.39	0.002302
171.00	0.39	0.002302
171.20	0.39	0.002302
171.40	0.39	0.002302
171.60	0.39	0.002302
171.80	0.39	0.002302
172.00	0.39	0.002303
172.20	0.39	0.002303
172.40	0.39	0.002303
172.60	0.39	0.002303
172.80	0.39	0.002303
173.00	0.39	0.002303
173.20	0.39	0.002303
173.40	0.39	0.002304
173.60	0.39	0.002304
173.80	0.39	0.002304
174.00	0.39	0.002304
174.20	0.39	0.002304
174.40	0.39	0.002304
174.60	0.39	0.002304
174.80	0.39	0.002305
175.00	0.39	0.002305
175.20	0.39	0.002305
175.40	0.39	0.002305
175.60	0.39	0.002305
175.80	0.39	0.002305
176.00	0.39	0.002305
176.20	0.39	0.002306
176.40	0.39	0.002306
176.60	0.39	0.002306
176.80	0.39	0.002306
177.00	0.39	0.002306
177.20	0.39	0.002306
177.40	0.39	0.002306
177.60	0.39	0.002307
177.80	0.39	0.002307
178.00	0.39	0.002307
178.20	0.39	0.002307
178.40	0.39	0.002307
178.60	0.39	0.002307
178.80	0.39	0.002307
179.00	0.39	0.002308
179.20	0.39	0.002308
179.40	0.39	0.002308
179.60	0.39	0.002308
179.80	0.39	0.002308
180.00	0.39	0.002308
180.20	0.39	0.002308
180.40	0.39	0.002309
180.60	0.39	0.002309
180.80	0.39	0.002309
181.00	0.39	0.002309
181.20	0.39	0.002309
181.40	0.39	0.002309
181.60	0.39	0.002309
181.80	0.39	0.002310
182.00	0.39	0.002310
182.20	0.39	0.002310

182.40	0.39	0.002310
182.60	0.39	0.002310
182.80	0.39	0.002310
183.00	0.39	0.002310
183.20	0.39	0.002310
183.40	0.39	0.002311
183.60	0.39	0.002311
183.80	0.39	0.002311
184.00	0.39	0.002311
184.20	0.39	0.002311
184.40	0.39	0.002311
184.60	0.39	0.002312
184.80	0.39	0.002312
185.00	0.39	0.002312
185.20	0.39	0.002312
185.40	0.39	0.002312
185.60	0.39	0.002312
185.80	0.39	0.002312
186.00	0.39	0.002313
186.20	0.39	0.002313
186.40	0.39	0.002313
186.60	0.39	0.002313
186.80	0.39	0.002313
187.00	0.39	0.002313
187.20	0.39	0.002313
187.40	0.39	0.002314
187.60	0.39	0.002314
187.80	0.39	0.002314
188.00	0.39	0.002314
188.20	0.39	0.002314
188.40	0.39	0.002314
188.60	0.39	0.002314
188.80	0.39	0.002315
189.00	0.39	0.002315
189.20	0.39	0.002315
189.40	0.39	0.002315
189.60	0.39	0.002315
189.80	0.39	0.002315
190.00	0.39	0.002315
190.20	0.39	0.002316
190.40	0.39	0.002316
190.60	0.39	0.002316
190.80	0.39	0.002316
191.00	0.39	0.002316
191.20	0.39	0.002316
191.40	0.39	0.002316
191.60	0.39	0.002317
191.80	0.39	0.002317
192.00	0.39	0.002317
192.20	0.39	0.002317
192.40	0.39	0.002317
192.60	0.39	0.002317
192.80	0.39	0.002317
193.00	0.39	0.002318
193.20	0.39	0.002318
193.40	0.39	0.002318
193.60	0.40	0.002318
193.80	0.40	0.002318
194.00	0.40	0.002318
194.20	0.40	0.002318
194.40	0.40	0.002319
194.60	0.40	0.002319
194.80	0.40	0.002319
195.00	0.40	0.002319
195.20	0.40	0.002319
195.40	0.40	0.002319

195.60	0.40	0.002319
195.80	0.40	0.002320
196.00	0.40	0.002320
196.20	0.40	0.002320
196.40	0.40	0.002320
196.60	0.40	0.002320
196.80	0.40	0.002320
197.00	0.40	0.002320
197.20	0.40	0.002321
197.40	0.40	0.002321
197.60	0.40	0.002321
197.80	0.40	0.002321
198.00	0.40	0.002321
198.20	0.40	0.002321
198.40	0.40	0.002322
198.60	0.40	0.002322
198.80	0.40	0.002322
199.00	0.40	0.002322
199.20	0.40	0.002322
199.40	0.40	0.002322
199.60	0.40	0.002322
199.80	0.40	0.002323
200.00	0.40	0.002323
200.20	0.40	0.002323
200.40	0.40	0.002323
200.60	0.40	0.002323
200.80	0.40	0.002323
201.00	0.40	0.002323
201.20	0.40	0.002324
201.40	0.40	0.002324
201.60	0.40	0.002324
201.80	0.40	0.002324
202.00	0.40	0.002324
202.20	0.40	0.002324
202.40	0.40	0.002324
202.60	0.40	0.002325
202.80	0.40	0.002325
203.00	0.40	0.002325
203.20	0.40	0.002325
203.40	0.40	0.002325
203.60	0.40	0.002325
203.80	0.40	0.002326
204.00	0.40	0.002326
204.20	0.40	0.002326
204.40	0.40	0.002326
204.60	0.40	0.002326
204.80	0.40	0.002326
205.00	0.40	0.002326
205.20	0.40	0.002327
205.40	0.40	0.002327
205.60	0.40	0.002327
205.80	0.40	0.002327
206.00	0.40	0.002327
206.20	0.40	0.002327
206.40	0.40	0.002327
206.60	0.40	0.002328
206.80	0.40	0.002328
207.00	0.40	0.002328
207.20	0.40	0.002328
207.40	0.40	0.002328
207.60	0.40	0.002328
207.80	0.40	0.002329
208.00	0.40	0.002329
208.20	0.40	0.002329
208.40	0.40	0.002329
208.60	0.40	0.002329

208.80	0.40	0.002329
209.00	0.40	0.002329
209.20	0.40	0.002330
209.40	0.40	0.002330
209.60	0.40	0.002330
209.80	0.40	0.002330
210.00	0.40	0.002330
210.20	0.40	0.002330
210.40	0.40	0.002330
210.60	0.40	0.002331
210.80	0.40	0.002331
211.00	0.40	0.002331
211.20	0.40	0.002331
211.40	0.40	0.002331
211.60	0.40	0.002331
211.80	0.40	0.002332
212.00	0.40	0.002332
212.20	0.40	0.002332
212.40	0.40	0.002332
212.60	0.40	0.002332
212.80	0.40	0.002332
213.00	0.40	0.002332
213.20	0.40	0.002333
213.40	0.40	0.002333
213.60	0.40	0.002333
213.80	0.40	0.002333
214.00	0.40	0.002333
214.20	0.40	0.002333
214.40	0.40	0.002333
214.60	0.40	0.002334
214.80	0.40	0.002334
215.00	0.40	0.002334
215.20	0.40	0.002334
215.40	0.40	0.002334
215.60	0.40	0.002334
215.80	0.40	0.002335
216.00	0.40	0.002335
216.20	0.40	0.002335
216.40	0.40	0.002335
216.60	0.40	0.002335
216.80	0.40	0.002335
217.00	0.40	0.002335
217.20	0.40	0.002336
217.40	0.40	0.002336
217.60	0.40	0.002336
217.80	0.40	0.002336
218.00	0.40	0.002336
218.20	0.40	0.002336
218.40	0.40	0.002337
218.60	0.40	0.002337
218.80	0.40	0.002337
219.00	0.40	0.002337
219.20	0.40	0.002337
219.40	0.40	0.002337
219.60	0.40	0.002337
219.80	0.40	0.002338
220.00	0.40	0.002338
220.20	0.40	0.002338
220.40	0.40	0.002338
220.60	0.40	0.002338
220.80	0.40	0.002338
221.00	0.40	0.002339
221.20	0.40	0.002339
221.40	0.40	0.002339
221.60	0.40	0.002339
221.80	0.40	0.002339

222.00	0.40	0.002339
222.20	0.40	0.002339
222.40	0.40	0.002340
222.60	0.40	0.002340
222.80	0.40	0.002340
223.00	0.40	0.002340
223.20	0.40	0.002340
223.40	0.40	0.002340
223.60	0.40	0.002340
223.80	0.40	0.002341
224.00	0.40	0.002341
224.20	0.40	0.002341
224.40	0.40	0.002341
224.60	0.40	0.002341
224.80	0.40	0.002341
225.00	0.40	0.002342
225.20	0.40	0.002342
225.40	0.40	0.002342
225.60	0.40	0.002342
225.80	0.40	0.002342
226.00	0.40	0.002342
226.20	0.40	0.002342
226.40	0.40	0.002343
226.60	0.40	0.002343
226.80	0.40	0.002343
227.00	0.40	0.002343
227.20	0.40	0.002343
227.40	0.40	0.002343
227.60	0.40	0.002344
227.80	0.40	0.002344
228.00	0.41	0.002344
228.20	0.41	0.002344
228.40	0.41	0.002344
228.60	0.41	0.002344
228.80	0.41	0.002345
229.00	0.41	0.002345
229.20	0.41	0.002345
229.40	0.41	0.002345
229.60	0.41	0.002345
229.80	0.41	0.002345
230.00	0.41	0.002345
230.20	0.41	0.002346
230.40	0.41	0.002346
230.60	0.41	0.002346
230.80	0.41	0.002346
231.00	0.41	0.002346
231.20	0.41	0.002346
231.40	0.41	0.002347
231.60	0.41	0.002347
231.80	0.41	0.002347
232.00	0.41	0.002347
232.20	0.41	0.002347
232.40	0.41	0.002347
232.60	0.41	0.002347
232.80	0.41	0.002348
233.00	0.41	0.002348
233.20	0.41	0.002348
233.40	0.41	0.002348
233.60	0.41	0.002348
233.80	0.41	0.002348
234.00	0.41	0.002349
234.20	0.41	0.002349
234.40	0.41	0.002349
234.60	0.41	0.002349
234.80	0.41	0.002349
235.00	0.41	0.002349

235.20	0.41	0.002350
235.40	0.41	0.002350
235.60	0.41	0.002350
235.80	0.41	0.002350
236.00	0.41	0.002350
236.20	0.41	0.002350
236.40	0.41	0.002350
236.60	0.41	0.002351
236.80	0.41	0.002351
237.00	0.41	0.002351
237.20	0.41	0.002351
237.40	0.41	0.002351
237.60	0.41	0.002351
237.80	0.41	0.002352
238.00	0.41	0.002352
238.20	0.41	0.002352
238.40	0.41	0.002352
238.60	0.41	0.002352
238.80	0.41	0.002352
239.00	0.41	0.002353
239.20	0.41	0.002353
239.40	0.41	0.002353
239.60	0.41	0.002353
239.80	0.41	0.002353
240.00	0.41	0.002353
240.20	0.41	0.002353
240.40	0.41	0.002354
240.60	0.41	0.002354
240.80	0.41	0.002354
241.00	0.41	0.002354
241.20	0.41	0.002354
241.40	0.41	0.002354
241.60	0.41	0.002355
241.80	0.41	0.002355
242.00	0.41	0.002355
242.20	0.41	0.002355
242.40	0.41	0.002355
242.60	0.41	0.002355
242.80	0.41	0.002356
243.00	0.41	0.002356
243.20	0.41	0.002356
243.40	0.41	0.002356
243.60	0.41	0.002356
243.80	0.41	0.002356
244.00	0.41	0.002357
244.20	0.41	0.002357
244.40	0.41	0.002357
244.60	0.41	0.002357
244.80	0.41	0.002357
245.00	0.41	0.002357
245.20	0.41	0.002357
245.40	0.41	0.002358
245.60	0.41	0.002358
245.80	0.41	0.002358
246.00	0.41	0.002358
246.20	0.41	0.002358
246.40	0.41	0.002358
246.60	0.41	0.002359
246.80	0.41	0.002359
247.00	0.41	0.002359
247.20	0.41	0.002359
247.40	0.41	0.002359
247.60	0.41	0.002359
247.80	0.41	0.002360
248.00	0.41	0.002360
248.20	0.41	0.002360

248.40	0.41	0.002360
248.60	0.41	0.002360
248.80	0.41	0.002360
249.00	0.41	0.002361
249.20	0.41	0.002361
249.40	0.41	0.002361
249.60	0.41	0.002361
249.80	0.41	0.002361
250.00	0.41	0.002361
250.20	0.41	0.002362
250.40	0.41	0.002362
250.60	0.41	0.002362
250.80	0.41	0.002362
251.00	0.41	0.002362
251.20	0.41	0.002362
251.40	0.41	0.002362
251.60	0.41	0.002363
251.80	0.41	0.002363
252.00	0.41	0.002363
252.20	0.41	0.002363
252.40	0.41	0.002363
252.60	0.41	0.002363
252.80	0.41	0.002364
253.00	0.41	0.002364
253.20	0.41	0.002364
253.40	0.41	0.002364
253.60	0.41	0.002364
253.80	0.41	0.002364
254.00	0.41	0.002365
254.20	0.41	0.002365
254.40	0.41	0.002365
254.60	0.41	0.002365
254.80	0.41	0.002365
255.00	0.41	0.002365
255.20	0.41	0.002366
255.40	0.41	0.002366
255.60	0.41	0.002366
255.80	0.41	0.002366
256.00	0.41	0.002366
256.20	0.41	0.002366
256.40	0.41	0.002367
256.60	0.41	0.002367
256.80	0.41	0.002367
257.00	0.41	0.002367
257.20	0.41	0.002367
257.40	0.41	0.002367
257.60	0.41	0.002368
257.80	0.41	0.002368
258.00	0.41	0.002368
258.20	0.41	0.002368
258.40	0.41	0.002368
258.60	0.41	0.002368
258.80	0.41	0.002369
259.00	0.41	0.002369
259.20	0.41	0.002369
259.40	0.41	0.002369
259.60	0.41	0.002369
259.80	0.41	0.002369
260.00	0.41	0.002370
260.20	0.41	0.002370
260.40	0.42	0.002370
260.60	0.42	0.002370
260.80	0.42	0.002370
261.00	0.42	0.002370
261.20	0.42	0.002371
261.40	0.42	0.002371

261.60	0.42	0.002371
261.80	0.42	0.002371
262.00	0.42	0.002371
262.20	0.42	0.002371
262.40	0.42	0.002372
262.60	0.42	0.002372
262.80	0.42	0.002372
263.00	0.42	0.002372
263.20	0.42	0.002372
263.40	0.42	0.002372
263.60	0.42	0.002373
263.80	0.42	0.002373
264.00	0.42	0.002373
264.20	0.42	0.002373
264.40	0.42	0.002373
264.60	0.42	0.002373
264.80	0.42	0.002374
265.00	0.42	0.002374
265.20	0.42	0.002374
265.40	0.42	0.002374
265.60	0.42	0.002374
265.80	0.42	0.002374
266.00	0.42	0.002375
266.20	0.42	0.002375
266.40	0.42	0.002375
266.60	0.42	0.002375
266.80	0.42	0.002375
267.00	0.42	0.002375
267.20	0.42	0.002376
267.40	0.42	0.002376
267.60	0.42	0.002376
267.80	0.42	0.002376
268.00	0.42	0.002376
268.20	0.42	0.002376
268.40	0.42	0.002377
268.60	0.42	0.002377
268.80	0.42	0.002377
269.00	0.42	0.002377
269.20	0.42	0.002377
269.40	0.42	0.002377
269.60	0.42	0.002378
269.80	0.42	0.002378
270.00	0.42	0.002378
270.20	0.42	0.002378
270.40	0.42	0.002378
270.60	0.42	0.002378
270.80	0.42	0.002379
271.00	0.42	0.002379
271.20	0.42	0.002379
271.40	0.42	0.002379
271.60	0.42	0.002379
271.80	0.42	0.002379
272.00	0.42	0.002380
272.20	0.42	0.002380
272.40	0.42	0.002380
272.60	0.42	0.002380
272.80	0.42	0.002380
273.00	0.42	0.002380
273.20	0.42	0.002381
273.40	0.42	0.002381
273.60	0.42	0.002381
273.80	0.42	0.002381
274.00	0.42	0.002381
274.20	0.42	0.002381
274.40	0.42	0.002382
274.60	0.42	0.002382

274.80	0.42	0.002382
275.00	0.42	0.002382
275.20	0.42	0.002382
275.40	0.42	0.002382
275.60	0.42	0.002383
275.80	0.42	0.002383
276.00	0.42	0.002383
276.20	0.42	0.002383
276.40	0.42	0.002383
276.60	0.42	0.002384
276.80	0.42	0.002384
277.00	0.42	0.002384
277.20	0.42	0.002384
277.40	0.42	0.002384
277.60	0.42	0.002384
277.80	0.42	0.002385
278.00	0.42	0.002385
278.20	0.42	0.002385
278.40	0.42	0.002385
278.60	0.42	0.002385
278.80	0.42	0.002385
279.00	0.42	0.002386
279.20	0.42	0.002386
279.40	0.42	0.002386
279.60	0.42	0.002386
279.80	0.42	0.002386
280.00	0.42	0.002386
280.20	0.42	0.002387
280.40	0.42	0.002387
280.60	0.42	0.002387
280.80	0.42	0.002387
281.00	0.42	0.002387
281.20	0.42	0.002387
281.40	0.42	0.002388
281.60	0.42	0.002388
281.80	0.42	0.002388
282.00	0.42	0.002388
282.20	0.42	0.002388
282.40	0.42	0.002389
282.60	0.42	0.002389
282.80	0.42	0.002389
283.00	0.42	0.002389
283.20	0.42	0.002389
283.40	0.42	0.002389
283.60	0.42	0.002390
283.80	0.42	0.002390
284.00	0.42	0.002390
284.20	0.42	0.002390
284.40	0.42	0.002390
284.60	0.42	0.002390
284.80	0.42	0.002391
285.00	0.42	0.002391
285.20	0.42	0.002391
285.40	0.42	0.002391
285.60	0.42	0.002391
285.80	0.42	0.002391
286.00	0.42	0.002392
286.20	0.42	0.002392
286.40	0.42	0.002392
286.60	0.42	0.002392
286.80	0.42	0.002392
287.00	0.42	0.002392
287.20	0.42	0.002393
287.40	0.42	0.002393
287.60	0.42	0.002393
287.80	0.42	0.002393

288.00	0.42	0.002393
288.20	0.42	0.002394
288.40	0.42	0.002394
288.60	0.42	0.002394
288.80	0.42	0.002394
289.00	0.42	0.002394
289.20	0.42	0.002394
289.40	0.42	0.002395
289.60	0.42	0.002395
289.80	0.42	0.002395
290.00	0.42	0.002395
290.20	0.42	0.002395
290.40	0.42	0.002395
290.60	0.42	0.002396
290.80	0.43	0.002396
291.00	0.43	0.002396
291.20	0.43	0.002396
291.40	0.43	0.002396
291.60	0.43	0.002397
291.80	0.43	0.002397
292.00	0.43	0.002397
292.20	0.43	0.002397
292.40	0.43	0.002397
292.60	0.43	0.002397
292.80	0.43	0.002398
293.00	0.43	0.002398
293.20	0.43	0.002398
293.40	0.43	0.002398
293.60	0.43	0.002398
293.80	0.43	0.002398
294.00	0.43	0.002399
294.20	0.43	0.002399
294.40	0.43	0.002399
294.60	0.43	0.002399
294.80	0.43	0.002399
295.00	0.43	0.002400
295.20	0.43	0.002400
295.40	0.43	0.002400
295.60	0.43	0.002400
295.80	0.43	0.002400
296.00	0.43	0.002400
296.20	0.43	0.002401
296.40	0.43	0.002401
296.60	0.43	0.002401
296.80	0.43	0.002401
297.00	0.43	0.002401
297.20	0.43	0.002401
297.40	0.43	0.002402
297.60	0.43	0.002402
297.80	0.43	0.002402
298.00	0.43	0.002402
298.20	0.43	0.002402
298.40	0.43	0.002403
298.60	0.43	0.002403
298.80	0.43	0.002403
299.00	0.43	0.002403
299.20	0.43	0.002403
299.40	0.43	0.002403
299.60	0.43	0.002404
299.80	0.43	0.002404
300.00	0.43	0.002404
300.20	0.43	0.002404
300.40	0.43	0.002404
300.60	0.43	0.002405
300.80	0.43	0.002405
301.00	0.43	0.002405

301.20	0.43	0.002405
301.40	0.43	0.002405
301.60	0.43	0.002405
301.80	0.43	0.002406
302.00	0.43	0.002406
302.20	0.43	0.002406
302.40	0.43	0.002406
302.60	0.43	0.002406
302.80	0.43	0.002406
303.00	0.43	0.002407
303.20	0.43	0.002407
303.40	0.43	0.002407
303.60	0.43	0.002407
303.80	0.43	0.002407
304.00	0.43	0.002408
304.20	0.43	0.002408
304.40	0.43	0.002408
304.60	0.43	0.002408
304.80	0.43	0.002408
305.00	0.43	0.002408
305.20	0.43	0.002409
305.40	0.43	0.002409
305.60	0.43	0.002409
305.80	0.43	0.002409
306.00	0.43	0.002409
306.20	0.43	0.002410
306.40	0.43	0.002410
306.60	0.43	0.002410
306.80	0.43	0.002410
307.00	0.43	0.002410
307.20	0.43	0.002410
307.40	0.43	0.002411
307.60	0.43	0.002411
307.80	0.43	0.002411
308.00	0.43	0.002411
308.20	0.43	0.002411
308.40	0.43	0.002412
308.60	0.43	0.002412
308.80	0.43	0.002412
309.00	0.43	0.002412
309.20	0.43	0.002412
309.40	0.43	0.002412
309.60	0.43	0.002413
309.80	0.43	0.002413
310.00	0.43	0.002413
310.20	0.43	0.002413
310.40	0.43	0.002413
310.60	0.43	0.002414
310.80	0.43	0.002414
311.00	0.43	0.002414
311.20	0.43	0.002414
311.40	0.43	0.002414
311.60	0.43	0.002414
311.80	0.43	0.002415
312.00	0.43	0.002415
312.20	0.43	0.002415
312.40	0.43	0.002415
312.60	0.43	0.002415
312.80	0.43	0.002416
313.00	0.43	0.002416
313.20	0.43	0.002416
313.40	0.43	0.002416
313.60	0.43	0.002416
313.80	0.43	0.002417
314.00	0.43	0.002417
314.20	0.43	0.002417

314.40	0.43	0.002417
314.60	0.43	0.002417
314.80	0.43	0.002417
315.00	0.43	0.002418
315.20	0.43	0.002418
315.40	0.43	0.002418
315.60	0.43	0.002418
315.80	0.43	0.002418
316.00	0.43	0.002419
316.20	0.43	0.002419
316.40	0.43	0.002419
316.60	0.43	0.002419
316.80	0.43	0.002419
317.00	0.43	0.002419
317.20	0.43	0.002420
317.40	0.43	0.002420
317.60	0.43	0.002420
317.80	0.43	0.002420
318.00	0.43	0.002420
318.20	0.43	0.002421
318.40	0.43	0.002421
318.60	0.43	0.002421
318.80	0.43	0.002421
319.00	0.43	0.002421
319.20	0.43	0.002422
319.40	0.44	0.002422
319.60	0.44	0.002422
319.80	0.44	0.002422
320.00	0.44	0.002422
320.20	0.44	0.002422
320.40	0.44	0.002423
320.60	0.44	0.002423
320.80	0.44	0.002423
321.00	0.44	0.002423
321.20	0.44	0.002423
321.40	0.44	0.002424
321.60	0.44	0.002424
321.80	0.44	0.002424
322.00	0.44	0.002424
322.20	0.44	0.002424
322.40	0.44	0.002425
322.60	0.44	0.002425
322.80	0.44	0.002425
323.00	0.44	0.002425
323.20	0.44	0.002425
323.40	0.44	0.002425
323.60	0.44	0.002426
323.80	0.44	0.002426
324.00	0.44	0.002426
324.20	0.44	0.002426
324.40	0.44	0.002426
324.60	0.44	0.002427
324.80	0.44	0.002427
325.00	0.44	0.002427
325.20	0.44	0.002427
325.40	0.44	0.002427
325.60	0.44	0.002428
325.80	0.44	0.002428
326.00	0.44	0.002428
326.20	0.44	0.002428
326.40	0.44	0.002428
326.60	0.44	0.002428
326.80	0.44	0.002429
327.00	0.44	0.002429
327.20	0.44	0.002429
327.40	0.44	0.002429

327.60	0.44	0.002429
327.80	0.44	0.002430
328.00	0.44	0.002430
328.20	0.44	0.002430
328.40	0.44	0.002430
328.60	0.44	0.002430
328.80	0.44	0.002431
329.00	0.44	0.002431
329.20	0.44	0.002431
329.40	0.44	0.002431
329.60	0.44	0.002431
329.80	0.44	0.002432
330.00	0.44	0.002432
330.20	0.44	0.002432
330.40	0.44	0.002432
330.60	0.44	0.002432
330.80	0.44	0.002432
331.00	0.44	0.002433
331.20	0.44	0.002433
331.40	0.44	0.002433
331.60	0.44	0.002433
331.80	0.44	0.002433
332.00	0.44	0.002434
332.20	0.44	0.002434
332.40	0.44	0.002434
332.60	0.44	0.002434
332.80	0.44	0.002434
333.00	0.44	0.002435
333.20	0.44	0.002435
333.40	0.44	0.002435
333.60	0.44	0.002435
333.80	0.44	0.002435
334.00	0.44	0.002436
334.20	0.44	0.002436
334.40	0.44	0.002436
334.60	0.44	0.002436
334.80	0.44	0.002436
335.00	0.44	0.002437
335.20	0.44	0.002437
335.40	0.44	0.002437
335.60	0.44	0.002437
335.80	0.44	0.002437
336.00	0.44	0.002437
336.20	0.44	0.002438
336.40	0.44	0.002438
336.60	0.44	0.002438
336.80	0.44	0.002438
337.00	0.44	0.002438
337.20	0.44	0.002439
337.40	0.44	0.002439
337.60	0.44	0.002439
337.80	0.44	0.002439
338.00	0.44	0.002439
338.20	0.44	0.002440
338.40	0.44	0.002440
338.60	0.44	0.002440
338.80	0.44	0.002440
339.00	0.44	0.002440
339.20	0.44	0.002441
339.40	0.44	0.002441
339.60	0.44	0.002441
339.80	0.44	0.002441
340.00	0.44	0.002441
340.20	0.44	0.002442
340.40	0.44	0.002442
340.60	0.44	0.002442

340.80	0.44	0.002442
341.00	0.44	0.002442
341.20	0.44	0.002443
341.40	0.44	0.002443
341.60	0.44	0.002443
341.80	0.44	0.002443
342.00	0.44	0.002443
342.20	0.44	0.002444
342.40	0.44	0.002444
342.60	0.44	0.002444
342.80	0.44	0.002444
343.00	0.44	0.002444
343.20	0.44	0.002445
343.40	0.44	0.002445
343.60	0.44	0.002445
343.80	0.44	0.002445
344.00	0.44	0.002445
344.20	0.44	0.002445
344.40	0.44	0.002446
344.60	0.44	0.002446
344.80	0.44	0.002446
345.00	0.44	0.002446
345.20	0.44	0.002446
345.40	0.44	0.002447
345.60	0.44	0.002447
345.80	0.44	0.002447
346.00	0.44	0.002447
346.20	0.44	0.002447
346.40	0.45	0.002448
346.60	0.45	0.002448
346.80	0.45	0.002448
347.00	0.45	0.002448
347.20	0.45	0.002448
347.40	0.45	0.002449
347.60	0.45	0.002449
347.80	0.45	0.002449
348.00	0.45	0.002449
348.20	0.45	0.002449
348.40	0.45	0.002450
348.60	0.45	0.002450
348.80	0.45	0.002450
349.00	0.45	0.002450
349.20	0.45	0.002450
349.40	0.45	0.002451
349.60	0.45	0.002451
349.80	0.45	0.002451
350.00	0.45	0.002451
350.20	0.45	0.002451
350.40	0.45	0.002452
350.60	0.45	0.002452
350.80	0.45	0.002452
351.00	0.45	0.002452
351.20	0.45	0.002452
351.40	0.45	0.002453
351.60	0.45	0.002453
351.80	0.45	0.002453
352.00	0.45	0.002453
352.20	0.45	0.002453
352.40	0.45	0.002454
352.60	0.45	0.002454
352.80	0.45	0.002454
353.00	0.45	0.002454
353.20	0.45	0.002454
353.40	0.45	0.002455
353.60	0.45	0.002455
353.80	0.45	0.002455

354.00	0.45	0.002455
354.20	0.45	0.002455
354.40	0.45	0.002456
354.60	0.45	0.002456
354.80	0.45	0.002456
355.00	0.45	0.002456
355.20	0.45	0.002456
355.40	0.45	0.002457
355.60	0.45	0.002457
355.80	0.45	0.002457
356.00	0.45	0.002457
356.20	0.45	0.002457
356.40	0.45	0.002458
356.60	0.45	0.002458
356.80	0.45	0.002458
357.00	0.45	0.002458
357.20	0.45	0.002458
357.40	0.45	0.002459
357.60	0.45	0.002459
357.80	0.45	0.002459
358.00	0.45	0.002459
358.20	0.45	0.002459
358.40	0.45	0.002460
358.60	0.45	0.002460
358.80	0.45	0.002460
359.00	0.45	0.002460
359.20	0.45	0.002461
359.40	0.45	0.002461
359.60	0.45	0.002461
359.80	0.45	0.002461
360.00	0.45	0.002461
360.20	0.45	0.002462
360.40	0.45	0.002462
360.60	0.45	0.002462
360.80	0.45	0.002462
361.00	0.45	0.002462
361.20	0.45	0.002463
361.40	0.45	0.002463
361.60	0.45	0.002463
361.80	0.45	0.002463
362.00	0.45	0.002463
362.20	0.45	0.002464
362.40	0.45	0.002464
362.60	0.45	0.002464
362.80	0.45	0.002464
363.00	0.45	0.002464
363.20	0.45	0.002465
363.40	0.45	0.002465
363.60	0.45	0.002465
363.80	0.45	0.002465
364.00	0.45	0.002465
364.20	0.45	0.002466
364.40	0.45	0.002466
364.60	0.45	0.002466
364.80	0.45	0.002466
365.00	0.45	0.002466
365.20	0.45	0.002467
365.40	0.45	0.002467
365.60	0.45	0.002467
365.80	0.45	0.002467
366.00	0.45	0.002467
366.20	0.45	0.002468
366.40	0.45	0.002468
366.60	0.45	0.002468
366.80	0.45	0.002468
367.00	0.45	0.002468

367.20	0.45	0.002469
367.40	0.45	0.002469
367.60	0.45	0.002469
367.80	0.45	0.002469
368.00	0.45	0.002470
368.20	0.45	0.002470
368.40	0.45	0.002470
368.60	0.45	0.002470
368.80	0.45	0.002470
369.00	0.45	0.002471
369.20	0.45	0.002471
369.40	0.45	0.002471
369.60	0.45	0.002471
369.80	0.45	0.002471
370.00	0.45	0.002472
370.20	0.45	0.002472
370.40	0.45	0.002472
370.60	0.45	0.002472
370.80	0.45	0.002472
371.00	0.45	0.002473
371.20	0.45	0.002473
371.40	0.45	0.002473
371.60	0.45	0.002473
371.80	0.46	0.002473
372.00	0.46	0.002474
372.20	0.46	0.002474
372.40	0.46	0.002474
372.60	0.46	0.002474
372.80	0.46	0.002475
373.00	0.46	0.002475
373.20	0.46	0.002475
373.40	0.46	0.002475
373.60	0.46	0.002475
373.80	0.46	0.002476
374.00	0.46	0.002476
374.20	0.46	0.002476
374.40	0.46	0.002476
374.60	0.46	0.002476
374.80	0.46	0.002477
375.00	0.46	0.002477
375.20	0.46	0.002477
375.40	0.46	0.002477
375.60	0.46	0.002477
375.80	0.46	0.002478
376.00	0.46	0.002478
376.20	0.46	0.002478
376.40	0.46	0.002478
376.60	0.46	0.002479
376.80	0.46	0.002479
377.00	0.46	0.002479
377.20	0.46	0.002479
377.40	0.46	0.002479
377.60	0.46	0.002480
377.80	0.46	0.002480
378.00	0.46	0.002480
378.20	0.46	0.002480
378.40	0.46	0.002480
378.60	0.46	0.002481
378.80	0.46	0.002481
379.00	0.46	0.002481
379.20	0.46	0.002481
379.40	0.46	0.002481
379.60	0.46	0.002482
379.80	0.46	0.002482
380.00	0.46	0.002482
380.20	0.46	0.002482

380.40	0.46	0.002483
380.60	0.46	0.002483
380.80	0.46	0.002483
381.00	0.46	0.002483
381.20	0.46	0.002483
381.40	0.46	0.002484
381.60	0.46	0.002484
381.80	0.46	0.002484
382.00	0.46	0.002484
382.20	0.46	0.002484
382.40	0.46	0.002485
382.60	0.46	0.002485
382.80	0.46	0.002485
383.00	0.46	0.002485
383.20	0.46	0.002486
383.40	0.46	0.002486
383.60	0.46	0.002486
383.80	0.46	0.002486
384.00	0.46	0.002486
384.20	0.46	0.002487
384.40	0.46	0.002487
384.60	0.46	0.002487
384.80	0.46	0.002487
385.00	0.46	0.002488
385.20	0.46	0.002488
385.40	0.46	0.002488
385.60	0.46	0.002488
385.80	0.46	0.002488
386.00	0.46	0.002489
386.20	0.46	0.002489
386.40	0.46	0.002489
386.60	0.46	0.002489
386.80	0.46	0.002489
387.00	0.46	0.002490
387.20	0.46	0.002490
387.40	0.46	0.002490
387.60	0.46	0.002490
387.80	0.46	0.002491
388.00	0.46	0.002491
388.20	0.46	0.002491
388.40	0.46	0.002491
388.60	0.46	0.002491
388.80	0.46	0.002492
389.00	0.46	0.002492
389.20	0.46	0.002492
389.40	0.46	0.002492
389.60	0.46	0.002493
389.80	0.46	0.002493
390.00	0.46	0.002493
390.20	0.46	0.002493
390.40	0.46	0.002493
390.60	0.46	0.002494
390.80	0.46	0.002494
391.00	0.46	0.002494
391.20	0.46	0.002494
391.40	0.46	0.002494
391.60	0.46	0.002495
391.80	0.46	0.002495
392.00	0.46	0.002495
392.20	0.46	0.002495
392.40	0.46	0.002496
392.60	0.46	0.002496
392.80	0.46	0.002496
393.00	0.46	0.002496
393.20	0.46	0.002496
393.40	0.46	0.002497

393.60	0.46	0.002497
393.80	0.46	0.002497
394.00	0.46	0.002497
394.20	0.46	0.002498
394.40	0.46	0.002498
394.60	0.46	0.002498
394.80	0.46	0.002498
395.00	0.46	0.002498
395.20	0.46	0.002499
395.40	0.46	0.002499
395.60	0.46	0.002499
395.80	0.47	0.002499
396.00	0.47	0.002500
396.20	0.47	0.002500
396.40	0.47	0.002500
396.60	0.47	0.002500
396.80	0.47	0.002500
397.00	0.47	0.002501
397.20	0.47	0.002501
397.40	0.47	0.002501
397.60	0.47	0.002501
397.80	0.47	0.002502
398.00	0.47	0.002502
398.20	0.47	0.002502
398.40	0.47	0.002502
398.60	0.47	0.002502
398.80	0.47	0.002503
399.00	0.47	0.002503
399.20	0.47	0.002503
399.40	0.47	0.002503
399.60	0.47	0.002504
399.80	0.47	0.002504
400.00	0.47	0.002504
400.20	0.47	0.002504
400.40	0.47	0.002504
400.60	0.47	0.002505
400.80	0.47	0.002505
401.00	0.47	0.002505
401.20	0.47	0.002505
401.40	0.47	0.002506
401.60	0.47	0.002506
401.80	0.47	0.002506
402.00	0.47	0.002506
402.20	0.47	0.002506
402.40	0.47	0.002507
402.60	0.47	0.002507
402.80	0.47	0.002507
403.00	0.47	0.002507
403.20	0.47	0.002508
403.40	0.47	0.002508
403.60	0.47	0.002508
403.80	0.47	0.002508
404.00	0.47	0.002508
404.20	0.47	0.002509
404.40	0.47	0.002509
404.60	0.47	0.002509
404.80	0.47	0.002509
405.00	0.47	0.002510
405.20	0.47	0.002510
405.40	0.47	0.002510
405.60	0.47	0.002510
405.80	0.47	0.002511
406.00	0.47	0.002511
406.20	0.47	0.002511
406.40	0.47	0.002511
406.60	0.47	0.002511

406.80	0.47	0.002512
407.00	0.47	0.002512
407.20	0.47	0.002512
407.40	0.47	0.002512
407.60	0.47	0.002513
407.80	0.47	0.002513
408.00	0.47	0.002513
408.20	0.47	0.002513
408.40	0.47	0.002513
408.60	0.47	0.002514
408.80	0.47	0.002514
409.00	0.47	0.002514
409.20	0.47	0.002514
409.40	0.47	0.002515
409.60	0.47	0.002515
409.80	0.47	0.002515
410.00	0.47	0.002515
410.20	0.47	0.002515
410.40	0.47	0.002516
410.60	0.47	0.002516
410.80	0.47	0.002516
411.00	0.47	0.002516
411.20	0.47	0.002517
411.40	0.47	0.002517
411.60	0.47	0.002517
411.80	0.47	0.002517
412.00	0.47	0.002518
412.20	0.47	0.002518
412.40	0.47	0.002518
412.60	0.47	0.002518
412.80	0.47	0.002518
413.00	0.47	0.002519
413.20	0.47	0.002519
413.40	0.47	0.002519
413.60	0.47	0.002519
413.80	0.47	0.002520
414.00	0.47	0.002520
414.20	0.47	0.002520
414.40	0.47	0.002520
414.60	0.47	0.002521
414.80	0.47	0.002521
415.00	0.47	0.002521
415.20	0.47	0.002521
415.40	0.47	0.002521
415.60	0.47	0.002522
415.80	0.47	0.002522
416.00	0.47	0.002522
416.20	0.47	0.002522
416.40	0.47	0.002523
416.60	0.47	0.002523
416.80	0.47	0.002523
417.00	0.47	0.002523
417.20	0.47	0.002524
417.40	0.47	0.002524
417.60	0.47	0.002524
417.80	0.47	0.002524
418.00	0.47	0.002525
418.20	0.47	0.002525
418.40	0.47	0.002525
418.60	0.48	0.002525
418.80	0.48	0.002525
419.00	0.48	0.002526
419.20	0.48	0.002526
419.40	0.48	0.002526
419.60	0.48	0.002526
419.80	0.48	0.002527

420.00	0.48	0.002527
420.20	0.48	0.002527
420.40	0.48	0.002527
420.60	0.48	0.002528
420.80	0.48	0.002528
421.00	0.48	0.002528
421.20	0.48	0.002528
421.40	0.48	0.002528
421.60	0.48	0.002529
421.80	0.48	0.002529
422.00	0.48	0.002529
422.20	0.48	0.002529
422.40	0.48	0.002530
422.60	0.48	0.002530
422.80	0.48	0.002530
423.00	0.48	0.002530
423.20	0.48	0.002531
423.40	0.48	0.002531
423.60	0.48	0.002531
423.80	0.48	0.002531
424.00	0.48	0.002532
424.20	0.48	0.002532
424.40	0.48	0.002532
424.60	0.48	0.002532
424.80	0.48	0.002532
425.00	0.48	0.002533
425.20	0.48	0.002533
425.40	0.48	0.002533
425.60	0.48	0.002533
425.80	0.48	0.002534
426.00	0.48	0.002534
426.20	0.48	0.002534
426.40	0.48	0.002534
426.60	0.48	0.002535
426.80	0.48	0.002535
427.00	0.48	0.002535
427.20	0.48	0.002535
427.40	0.48	0.002536
427.60	0.48	0.002536
427.80	0.48	0.002536
428.00	0.48	0.002536
428.20	0.48	0.002537
428.40	0.48	0.002537
428.60	0.48	0.002537
428.80	0.48	0.002537
429.00	0.48	0.002537
429.20	0.48	0.002538
429.40	0.48	0.002538
429.60	0.48	0.002538
429.80	0.48	0.002538
430.00	0.48	0.002539
430.20	0.48	0.002539
430.40	0.48	0.002539
430.60	0.48	0.002539
430.80	0.48	0.002540
431.00	0.48	0.002540
431.20	0.48	0.002540
431.40	0.48	0.002540
431.60	0.48	0.002541
431.80	0.48	0.002541
432.00	0.48	0.002541
432.20	0.48	0.002541
432.40	0.48	0.002542
432.60	0.48	0.002542
432.80	0.48	0.002542
433.00	0.48	0.002542

433.20	0.48	0.002543
433.40	0.48	0.002543
433.60	0.48	0.002543
433.80	0.48	0.002543
434.00	0.48	0.002544
434.20	0.48	0.002544
434.40	0.48	0.002544
434.60	0.48	0.002544
434.80	0.48	0.002544
435.00	0.48	0.002545
435.20	0.48	0.002545
435.40	0.48	0.002545
435.60	0.48	0.002545
435.80	0.48	0.002546
436.00	0.48	0.002546
436.20	0.48	0.002546
436.40	0.48	0.002546
436.60	0.48	0.002547
436.80	0.48	0.002547
437.00	0.48	0.002547
437.20	0.48	0.002547
437.40	0.48	0.002548
437.60	0.48	0.002548
437.80	0.48	0.002548
438.00	0.48	0.002548
438.20	0.48	0.002549
438.40	0.48	0.002549
438.60	0.48	0.002549
438.80	0.48	0.002549
439.00	0.48	0.002550
439.20	0.48	0.002550
439.40	0.48	0.002550
439.60	0.48	0.002550
439.80	0.48	0.002551
440.00	0.48	0.002551
440.20	0.48	0.002551
440.40	0.49	0.002551
440.60	0.49	0.002552
440.80	0.49	0.002552
441.00	0.49	0.002552
441.20	0.49	0.002552
441.40	0.49	0.002553
441.60	0.49	0.002553
441.80	0.49	0.002553
442.00	0.49	0.002553
442.20	0.49	0.002554
442.40	0.49	0.002554
442.60	0.49	0.002554
442.80	0.49	0.002554
443.00	0.49	0.002555
443.20	0.49	0.002555
443.40	0.49	0.002555
443.60	0.49	0.002555
443.80	0.49	0.002556
444.00	0.49	0.002556
444.20	0.49	0.002556
444.40	0.49	0.002556
444.60	0.49	0.002556
444.80	0.49	0.002557
445.00	0.49	0.002557
445.20	0.49	0.002557
445.40	0.49	0.002558
445.60	0.49	0.002558
445.80	0.49	0.002558
446.00	0.49	0.002558
446.20	0.49	0.002559

446.40	0.49	0.002559
446.60	0.49	0.002559
446.80	0.49	0.002559
447.00	0.49	0.002560
447.20	0.49	0.002560
447.40	0.49	0.002560
447.60	0.49	0.002560
447.80	0.49	0.002561
448.00	0.49	0.002561
448.20	0.49	0.002561
448.40	0.49	0.002561
448.60	0.49	0.002562
448.80	0.49	0.002562
449.00	0.49	0.002562
449.20	0.49	0.002562
449.40	0.49	0.002563
449.60	0.49	0.002563
449.80	0.49	0.002563
450.00	0.49	0.002563
450.20	0.49	0.002564
450.40	0.49	0.002564
450.60	0.49	0.002564
450.80	0.49	0.002564
451.00	0.49	0.002565
451.20	0.49	0.002565
451.40	0.49	0.002565
451.60	0.49	0.002565
451.80	0.49	0.002566
452.00	0.49	0.002566
452.20	0.49	0.002566
452.40	0.49	0.002566
452.60	0.49	0.002567
452.80	0.49	0.002567
453.00	0.49	0.002567
453.20	0.49	0.002567
453.40	0.49	0.002568
453.60	0.49	0.002568
453.80	0.49	0.002568
454.00	0.49	0.002568
454.20	0.49	0.002569
454.40	0.49	0.002569
454.60	0.49	0.002569
454.80	0.49	0.002569
455.00	0.49	0.002570
455.20	0.49	0.002570
455.40	0.49	0.002570
455.60	0.49	0.002570
455.80	0.49	0.002571
456.00	0.49	0.002571
456.20	0.49	0.002571
456.40	0.49	0.002571
456.60	0.49	0.002572
456.80	0.49	0.002572
457.00	0.49	0.002572
457.20	0.49	0.002572
457.40	0.49	0.002573
457.60	0.49	0.002573
457.80	0.49	0.002573
458.00	0.49	0.002574
458.20	0.49	0.002574
458.40	0.49	0.002574
458.60	0.49	0.002574
458.80	0.49	0.002575
459.00	0.49	0.002575
459.20	0.49	0.002575
459.40	0.49	0.002575

459.60	0.49	0.002576
459.80	0.49	0.002576
460.00	0.49	0.002576
460.20	0.49	0.002576
460.40	0.49	0.002577
460.60	0.49	0.002577
460.80	0.50	0.002577
461.00	0.50	0.002577
461.20	0.50	0.002578
461.40	0.50	0.002578
461.60	0.50	0.002578
461.80	0.50	0.002578
462.00	0.50	0.002579
462.20	0.50	0.002579
462.40	0.50	0.002579
462.60	0.50	0.002579
462.80	0.50	0.002580
463.00	0.50	0.002580
463.20	0.50	0.002580
463.40	0.50	0.002581
463.60	0.50	0.002581
463.80	0.50	0.002581
464.00	0.50	0.002581
464.20	0.50	0.002582
464.40	0.50	0.002582
464.60	0.50	0.002582
464.80	0.50	0.002582
465.00	0.50	0.002583
465.20	0.50	0.002583
465.40	0.50	0.002583
465.60	0.50	0.002583
465.80	0.50	0.002584
466.00	0.50	0.002584
466.20	0.50	0.002584
466.40	0.50	0.002584
466.60	0.50	0.002585
466.80	0.50	0.002585
467.00	0.50	0.002585
467.20	0.50	0.002585
467.40	0.50	0.002586
467.60	0.50	0.002586
467.80	0.50	0.002586
468.00	0.50	0.002586
468.20	0.50	0.002587
468.40	0.50	0.002587
468.60	0.50	0.002587
468.80	0.50	0.002588
469.00	0.50	0.002588
469.20	0.50	0.002588
469.40	0.50	0.002588
469.60	0.50	0.002589
469.80	0.50	0.002589
470.00	0.50	0.002589
470.20	0.50	0.002589
470.40	0.50	0.002590
470.60	0.50	0.002590
470.80	0.50	0.002590
471.00	0.50	0.002591
471.20	0.50	0.002591
471.40	0.50	0.002591
471.60	0.50	0.002591
471.80	0.50	0.002592
472.00	0.50	0.002592
472.20	0.50	0.002592
472.40	0.50	0.002592
472.60	0.50	0.002593

472.80	0.50	0.002593
473.00	0.50	0.002593
473.20	0.50	0.002593
473.40	0.50	0.002594
473.60	0.50	0.002594
473.80	0.50	0.002594
474.00	0.50	0.002594
474.20	0.50	0.002595
474.40	0.50	0.002595
474.60	0.50	0.002595
474.80	0.50	0.002596
475.00	0.50	0.002596
475.20	0.50	0.002596
475.40	0.50	0.002596
475.60	0.50	0.002597
475.80	0.50	0.002597
476.00	0.50	0.002597
476.20	0.50	0.002597
476.40	0.50	0.002598
476.60	0.50	0.002598
476.80	0.50	0.002598
477.00	0.50	0.002599
477.20	0.50	0.002599
477.40	0.50	0.002599
477.60	0.50	0.002599
477.80	0.50	0.002600
478.00	0.50	0.002600
478.20	0.50	0.002600
478.40	0.50	0.002600
478.60	0.50	0.002601
478.80	0.50	0.002601
479.00	0.50	0.002601
479.20	0.50	0.002601
479.40	0.50	0.002602
479.60	0.50	0.002602
479.80	0.50	0.002602
480.00	0.50	0.002603
480.20	0.50	0.002603
480.40	0.51	0.002603
480.60	0.51	0.002603
480.80	0.51	0.002604
481.00	0.51	0.002604
481.20	0.51	0.002604
481.40	0.51	0.002605
481.60	0.51	0.002605
481.80	0.51	0.002605
482.00	0.51	0.002605
482.20	0.51	0.002606
482.40	0.51	0.002606
482.60	0.51	0.002606
482.80	0.51	0.002606
483.00	0.51	0.002607
483.20	0.51	0.002607
483.40	0.51	0.002607
483.60	0.51	0.002608
483.80	0.51	0.002608
484.00	0.51	0.002608
484.20	0.51	0.002608
484.40	0.51	0.002609
484.60	0.51	0.002609
484.80	0.51	0.002609
485.00	0.51	0.002609
485.20	0.51	0.002610
485.40	0.51	0.002610
485.60	0.51	0.002610
485.80	0.51	0.002611

486.00	0.51	0.002611
486.20	0.51	0.002611
486.40	0.51	0.002611
486.60	0.51	0.002612
486.80	0.51	0.002612
487.00	0.51	0.002612
487.20	0.51	0.002613
487.40	0.51	0.002613
487.60	0.51	0.002613
487.80	0.51	0.002613
488.00	0.51	0.002614
488.20	0.51	0.002614
488.40	0.51	0.002614
488.60	0.51	0.002614
488.80	0.51	0.002615
489.00	0.51	0.002615
489.20	0.51	0.002615
489.40	0.51	0.002616
489.60	0.51	0.002616
489.80	0.51	0.002616
490.00	0.51	0.002616
490.20	0.51	0.002617
490.40	0.51	0.002617
490.60	0.51	0.002617
490.80	0.51	0.002618
491.00	0.51	0.002618
491.20	0.51	0.002618
491.40	0.51	0.002618
491.60	0.51	0.002619
491.80	0.51	0.002619
492.00	0.51	0.002619
492.20	0.51	0.002619
492.40	0.51	0.002620
492.60	0.51	0.002620
492.80	0.51	0.002620
493.00	0.51	0.002621
493.20	0.51	0.002621
493.40	0.51	0.002621
493.60	0.51	0.002621
493.80	0.51	0.002622
494.00	0.51	0.002622
494.20	0.51	0.002622
494.40	0.51	0.002623
494.60	0.51	0.002623
494.80	0.51	0.002623
495.00	0.51	0.002623
495.20	0.51	0.002624
495.40	0.51	0.002624
495.60	0.51	0.002624
495.80	0.51	0.002625
496.00	0.51	0.002625
496.20	0.51	0.002625
496.40	0.51	0.002625
496.60	0.51	0.002626
496.80	0.51	0.002626
497.00	0.51	0.002626
497.20	0.51	0.002627
497.40	0.51	0.002627
497.60	0.51	0.002627
497.80	0.51	0.002627
498.00	0.51	0.002628
498.20	0.51	0.002628
498.40	0.51	0.002628
498.60	0.51	0.002629
498.80	0.52	0.002629
499.00	0.52	0.002629

499.20	0.52	0.002629
499.40	0.52	0.002630
499.60	0.52	0.002630
499.80	0.52	0.002630
500.00	0.52	0.002631
500.20	0.52	0.002631
500.40	0.52	0.002631
500.60	0.52	0.002631
500.80	0.52	0.002632
501.00	0.52	0.002632
501.20	0.52	0.002632
501.40	0.52	0.002633
501.60	0.52	0.002633
501.80	0.52	0.002633
502.00	0.52	0.002633
502.20	0.52	0.002634
502.40	0.52	0.002634
502.60	0.52	0.002634
502.80	0.52	0.002635
503.00	0.52	0.002635
503.20	0.52	0.002635
503.40	0.52	0.002635
503.60	0.52	0.002636
503.80	0.52	0.002636
504.00	0.52	0.002636
504.20	0.52	0.002637
504.40	0.52	0.002637
504.60	0.52	0.002637
504.80	0.52	0.002638
505.00	0.52	0.002638
505.20	0.52	0.002638
505.40	0.52	0.002638
505.60	0.52	0.002639
505.80	0.52	0.002639
506.00	0.52	0.002639
506.20	0.52	0.002640
506.40	0.52	0.002640
506.60	0.52	0.002640
506.80	0.52	0.002640
507.00	0.52	0.002641
507.20	0.52	0.002641
507.40	0.52	0.002641
507.60	0.52	0.002642
507.80	0.52	0.002642
508.00	0.52	0.002642
508.20	0.52	0.002642
508.40	0.52	0.002643
508.60	0.52	0.002643
508.80	0.52	0.002643
509.00	0.52	0.002644
509.20	0.52	0.002644
509.40	0.52	0.002644
509.60	0.52	0.002645
509.80	0.52	0.002645
510.00	0.52	0.002645
510.20	0.52	0.002645
510.40	0.52	0.002646
510.60	0.52	0.002646
510.80	0.52	0.002646
511.00	0.52	0.002647
511.20	0.52	0.002647
511.40	0.52	0.002647
511.60	0.52	0.002648
511.80	0.52	0.002648
512.00	0.52	0.002648
512.20	0.52	0.002648

512.40	0.52	0.002649
512.60	0.52	0.002649
512.80	0.52	0.002649
513.00	0.52	0.002650
513.20	0.52	0.002650
513.40	0.52	0.002650
513.60	0.52	0.002650
513.80	0.52	0.002651
514.00	0.52	0.002651
514.20	0.52	0.002651
514.40	0.52	0.002652
514.60	0.52	0.002652
514.80	0.52	0.002652
515.00	0.52	0.002653
515.20	0.52	0.002653
515.40	0.52	0.002653
515.60	0.52	0.002653
515.80	0.52	0.002654
516.00	0.52	0.002654
516.20	0.52	0.002654
516.40	0.52	0.002655
516.60	0.53	0.002655
516.80	0.53	0.002655
517.00	0.53	0.002656
517.20	0.53	0.002656
517.40	0.53	0.002656
517.60	0.53	0.002656
517.80	0.53	0.002657
518.00	0.53	0.002657
518.20	0.53	0.002657
518.40	0.53	0.002658
518.60	0.53	0.002658
518.80	0.53	0.002658
519.00	0.53	0.002659
519.20	0.53	0.002659
519.40	0.53	0.002659
519.60	0.53	0.002659
519.80	0.53	0.002660
520.00	0.53	0.002660
520.20	0.53	0.002660
520.40	0.53	0.002661
520.60	0.53	0.002661
520.80	0.53	0.002661
521.00	0.53	0.002662
521.20	0.53	0.002662
521.40	0.53	0.002662
521.60	0.53	0.002663
521.80	0.53	0.002663
522.00	0.53	0.002663
522.20	0.53	0.002663
522.40	0.53	0.002664
522.60	0.53	0.002664
522.80	0.53	0.002664
523.00	0.53	0.002665
523.20	0.53	0.002665
523.40	0.53	0.002665
523.60	0.53	0.002666
523.80	0.53	0.002666
524.00	0.53	0.002666
524.20	0.53	0.002667
524.40	0.53	0.002667
524.60	0.53	0.002667
524.80	0.53	0.002667
525.00	0.53	0.002668
525.20	0.53	0.002668
525.40	0.53	0.002668

525.60	0.53	0.002669
525.80	0.53	0.002669
526.00	0.53	0.002669
526.20	0.53	0.002670
526.40	0.53	0.002670
526.60	0.53	0.002670
526.80	0.53	0.002671
527.00	0.53	0.002671
527.20	0.53	0.002671
527.40	0.53	0.002671
527.60	0.53	0.002672
527.80	0.53	0.002672
528.00	0.53	0.002672
528.20	0.53	0.002673
528.40	0.53	0.002673
528.60	0.53	0.002673
528.80	0.53	0.002674
529.00	0.53	0.002674
529.20	0.53	0.002674
529.40	0.53	0.002675
529.60	0.53	0.002675
529.80	0.53	0.002675
530.00	0.53	0.002676
530.20	0.53	0.002676
530.40	0.53	0.002676
530.60	0.53	0.002676
530.80	0.53	0.002677
531.00	0.53	0.002677
531.20	0.53	0.002677
531.40	0.53	0.002678
531.60	0.53	0.002678
531.80	0.53	0.002678
532.00	0.53	0.002679
532.20	0.53	0.002679
532.40	0.53	0.002679
532.60	0.53	0.002680
532.80	0.53	0.002680
533.00	0.53	0.002680
533.20	0.53	0.002681
533.40	0.54	0.002681
533.60	0.54	0.002681
533.80	0.54	0.002681
534.00	0.54	0.002682
534.20	0.54	0.002682
534.40	0.54	0.002682
534.60	0.54	0.002683
534.80	0.54	0.002683
535.00	0.54	0.002683
535.20	0.54	0.002684
535.40	0.54	0.002684
535.60	0.54	0.002684
535.80	0.54	0.002685
536.00	0.54	0.002685
536.20	0.54	0.002685
536.40	0.54	0.002686
536.60	0.54	0.002686
536.80	0.54	0.002686
537.00	0.54	0.002687
537.20	0.54	0.002687
537.40	0.54	0.002687
537.60	0.54	0.002687
537.80	0.54	0.002688
538.00	0.54	0.002688
538.20	0.54	0.002688
538.40	0.54	0.002689
538.60	0.54	0.002689

538.80	0.54	0.002689
539.00	0.54	0.002690
539.20	0.54	0.002690
539.40	0.54	0.002690
539.60	0.54	0.002691
539.80	0.54	0.002691
540.00	0.54	0.002691
540.20	0.54	0.002692
540.40	0.54	0.002692
540.60	0.54	0.002692
540.80	0.54	0.002693
541.00	0.54	0.002693
541.20	0.54	0.002693
541.40	0.54	0.002694
541.60	0.54	0.002694
541.80	0.54	0.002694
542.00	0.54	0.002695
542.20	0.54	0.002695
542.40	0.54	0.002695
542.60	0.54	0.002696
542.80	0.54	0.002696
543.00	0.54	0.002696
543.20	0.54	0.002697
543.40	0.54	0.002697
543.60	0.54	0.002697
543.80	0.54	0.002697
544.00	0.54	0.002698
544.20	0.54	0.002698
544.40	0.54	0.002698
544.60	0.54	0.002699
544.80	0.54	0.002699
545.00	0.54	0.002699
545.20	0.54	0.002700
545.40	0.54	0.002700
545.60	0.54	0.002700
545.80	0.54	0.002701
546.00	0.54	0.002701
546.20	0.54	0.002701
546.40	0.54	0.002702
546.60	0.54	0.002702
546.80	0.54	0.002702
547.00	0.54	0.002703
547.20	0.54	0.002703
547.40	0.54	0.002703
547.60	0.54	0.002704
547.80	0.54	0.002704
548.00	0.54	0.002704
548.20	0.54	0.002705
548.40	0.54	0.002705
548.60	0.54	0.002705
548.80	0.54	0.002706
549.00	0.54	0.002706
549.20	0.54	0.002706
549.40	0.55	0.002707
549.60	0.55	0.002707
549.80	0.55	0.002707
550.00	0.55	0.002708
550.20	0.55	0.002708
550.40	0.55	0.002708
550.60	0.55	0.002709
550.80	0.55	0.002709
551.00	0.55	0.002709
551.20	0.55	0.002710
551.40	0.55	0.002710
551.60	0.55	0.002710
551.80	0.55	0.002711

552.00	0.55	0.002711
552.20	0.55	0.002711
552.40	0.55	0.002712
552.60	0.55	0.002712
552.80	0.55	0.002712
553.00	0.55	0.002713
553.20	0.55	0.002713
553.40	0.55	0.002713
553.60	0.55	0.002714
553.80	0.55	0.002714
554.00	0.55	0.002714
554.20	0.55	0.002715
554.40	0.55	0.002715
554.60	0.55	0.002715
554.80	0.55	0.002716
555.00	0.55	0.002716
555.20	0.55	0.002716
555.40	0.55	0.002717
555.60	0.55	0.002717
555.80	0.55	0.002717
556.00	0.55	0.002718
556.20	0.55	0.002718
556.40	0.55	0.002718
556.60	0.55	0.002719
556.80	0.55	0.002719
557.00	0.55	0.002719
557.20	0.55	0.002720
557.40	0.55	0.002720
557.60	0.55	0.002720
557.80	0.55	0.002721
558.00	0.55	0.002721
558.20	0.55	0.002721
558.40	0.55	0.002722
558.60	0.55	0.002722
558.80	0.55	0.002722
559.00	0.55	0.002723
559.20	0.55	0.002723
559.40	0.55	0.002723
559.60	0.55	0.002724
559.80	0.55	0.002724
560.00	0.55	0.002724
560.20	0.55	0.002725
560.40	0.55	0.002725
560.60	0.55	0.002725
560.80	0.55	0.002726
561.00	0.55	0.002726
561.20	0.55	0.002726
561.40	0.55	0.002727
561.60	0.55	0.002727
561.80	0.55	0.002727
562.00	0.55	0.002728
562.20	0.55	0.002728
562.40	0.55	0.002729
562.60	0.55	0.002729
562.80	0.55	0.002729
563.00	0.55	0.002730
563.20	0.55	0.002730
563.40	0.55	0.002730
563.60	0.55	0.002731
563.80	0.55	0.002731
564.00	0.55	0.002731
564.20	0.55	0.002732
564.40	0.55	0.002732
564.60	0.55	0.002732
564.80	0.56	0.002733
565.00	0.56	0.002733

565.20	0.56	0.002733
565.40	0.56	0.002734
565.60	0.56	0.002734
565.80	0.56	0.002734
566.00	0.56	0.002735
566.20	0.56	0.002735
566.40	0.56	0.002735
566.60	0.56	0.002736
566.80	0.56	0.002736
567.00	0.56	0.002736
567.20	0.56	0.002737
567.40	0.56	0.002737
567.60	0.56	0.002738
567.80	0.56	0.002738
568.00	0.56	0.002738
568.20	0.56	0.002739
568.40	0.56	0.002739
568.60	0.56	0.002739
568.80	0.56	0.002740
569.00	0.56	0.002740
569.20	0.56	0.002740
569.40	0.56	0.002741
569.60	0.56	0.002741
569.80	0.56	0.002741
570.00	0.56	0.002742
570.20	0.56	0.002742
570.40	0.56	0.002742
570.60	0.56	0.002743
570.80	0.56	0.002743
571.00	0.56	0.002744
571.20	0.56	0.002744
571.40	0.56	0.002744
571.60	0.56	0.002745
571.80	0.56	0.002745
572.00	0.56	0.002745
572.20	0.56	0.002746
572.40	0.56	0.002746
572.60	0.56	0.002746
572.80	0.56	0.002747
573.00	0.56	0.002747
573.20	0.56	0.002747
573.40	0.56	0.002748
573.60	0.56	0.002748
573.80	0.56	0.002748
574.00	0.56	0.002749
574.20	0.56	0.002749
574.40	0.56	0.002750
574.60	0.56	0.002750
574.80	0.56	0.002750
575.00	0.56	0.002751
575.20	0.56	0.002751
575.40	0.56	0.002751
575.60	0.56	0.002752
575.80	0.56	0.002752
576.00	0.56	0.002752
576.20	0.56	0.002753
576.40	0.56	0.002753
576.60	0.56	0.002753
576.80	0.56	0.002754
577.00	0.56	0.002754
577.20	0.56	0.002755
577.40	0.56	0.002755
577.60	0.56	0.002755
577.80	0.56	0.002756
578.00	0.56	0.002756
578.20	0.56	0.002756

578.40	0.56	0.002757
578.60	0.56	0.002757
578.80	0.56	0.002757
579.00	0.56	0.002758
579.20	0.56	0.002758
579.40	0.57	0.002758
579.60	0.57	0.002759
579.80	0.57	0.002759
580.00	0.57	0.002760
580.20	0.57	0.002760
580.40	0.57	0.002760
580.60	0.57	0.002761
580.80	0.57	0.002761
581.00	0.57	0.002761
581.20	0.57	0.002762
581.40	0.57	0.002762
581.60	0.57	0.002762
581.80	0.57	0.002763
582.00	0.57	0.002763
582.20	0.57	0.002764
582.40	0.57	0.002764
582.60	0.57	0.002764
582.80	0.57	0.002765
583.00	0.57	0.002765
583.20	0.57	0.002765
583.40	0.57	0.002766
583.60	0.57	0.002766
583.80	0.57	0.002766
584.00	0.57	0.002767
584.20	0.57	0.002767
584.40	0.57	0.002768
584.60	0.57	0.002768
584.80	0.57	0.002768
585.00	0.57	0.002769
585.20	0.57	0.002769
585.40	0.57	0.002769
585.60	0.57	0.002770
585.80	0.57	0.002770
586.00	0.57	0.002771
586.20	0.57	0.002771
586.40	0.57	0.002771
586.60	0.57	0.002772
586.80	0.57	0.002772
587.00	0.57	0.002772
587.20	0.57	0.002773
587.40	0.57	0.002773
587.60	0.57	0.002774
587.80	0.57	0.002774
588.00	0.57	0.002774
588.20	0.57	0.002775
588.40	0.57	0.002775
588.60	0.57	0.002775
588.80	0.57	0.002776
589.00	0.57	0.002776
589.20	0.57	0.002776
589.40	0.57	0.002777
589.60	0.57	0.002777
589.80	0.57	0.002778
590.00	0.57	0.002778
590.20	0.57	0.002778
590.40	0.57	0.002779
590.60	0.57	0.002779
590.80	0.57	0.002779
591.00	0.57	0.002780
591.20	0.57	0.002780
591.40	0.57	0.002781

591.60	0.57	0.002781
591.80	0.57	0.002781
592.00	0.57	0.002782
592.20	0.57	0.002782
592.40	0.57	0.002782
592.60	0.57	0.002783
592.80	0.57	0.002783
593.00	0.57	0.002784
593.20	0.57	0.002784
593.40	0.58	0.002784
593.60	0.58	0.002785
593.80	0.58	0.002785
594.00	0.58	0.002785
594.20	0.58	0.002786
594.40	0.58	0.002786
594.60	0.58	0.002787
594.80	0.58	0.002787
595.00	0.58	0.002787
595.20	0.58	0.002788
595.40	0.58	0.002788
595.60	0.58	0.002789
595.80	0.58	0.002789
596.00	0.58	0.002789
596.20	0.58	0.002790
596.40	0.58	0.002790
596.60	0.58	0.002790
596.80	0.58	0.002791
597.00	0.58	0.002791
597.20	0.58	0.002792
597.40	0.58	0.002792
597.60	0.58	0.002792
597.80	0.58	0.002793
598.00	0.58	0.002793
598.20	0.58	0.002793
598.40	0.58	0.002794
598.60	0.58	0.002794
598.80	0.58	0.002795
599.00	0.58	0.002795
599.20	0.58	0.002795
599.40	0.58	0.002796
599.60	0.58	0.002796
599.80	0.58	0.002797
600.00	0.58	0.002797
600.20	0.58	0.002797
600.40	0.58	0.002798
600.60	0.58	0.002798
600.80	0.58	0.002799
601.00	0.58	0.002799
601.20	0.58	0.002799
601.40	0.58	0.002800
601.60	0.58	0.002800
601.80	0.58	0.002800
602.00	0.58	0.002801
602.20	0.58	0.002801
602.40	0.58	0.002802
602.60	0.58	0.002802
602.80	0.58	0.002802
603.00	0.58	0.002803
603.20	0.58	0.002803
603.40	0.58	0.002804
603.60	0.58	0.002804
603.80	0.58	0.002804
604.00	0.58	0.002805
604.20	0.58	0.002805
604.40	0.58	0.002806
604.60	0.58	0.002806

604.80	0.58	0.002806
605.00	0.58	0.002807
605.20	0.58	0.002807
605.40	0.58	0.002807
605.60	0.58	0.002808
605.80	0.58	0.002808
606.00	0.58	0.002809
606.20	0.58	0.002809
606.40	0.58	0.002809
606.60	0.58	0.002810
606.80	0.59	0.002810
607.00	0.59	0.002811
607.20	0.59	0.002811
607.40	0.59	0.002811
607.60	0.59	0.002812
607.80	0.59	0.002812
608.00	0.59	0.002813
608.20	0.59	0.002813
608.40	0.59	0.002813
608.60	0.59	0.002814
608.80	0.59	0.002814
609.00	0.59	0.002815
609.20	0.59	0.002815
609.40	0.59	0.002815
609.60	0.59	0.002816
609.80	0.59	0.002816
610.00	0.59	0.002817
610.20	0.59	0.002817
610.40	0.59	0.002817
610.60	0.59	0.002818
610.80	0.59	0.002818
611.00	0.59	0.002819
611.20	0.59	0.002819
611.40	0.59	0.002819
611.60	0.59	0.002820
611.80	0.59	0.002820
612.00	0.59	0.002821
612.20	0.59	0.002821
612.40	0.59	0.002821
612.60	0.59	0.002822
612.80	0.59	0.002822
613.00	0.59	0.002823
613.20	0.59	0.002823
613.40	0.59	0.002823
613.60	0.59	0.002824
613.80	0.59	0.002824
614.00	0.59	0.002825
614.20	0.59	0.002825
614.40	0.59	0.002825
614.60	0.59	0.002826
614.80	0.59	0.002826
615.00	0.59	0.002827
615.20	0.59	0.002827
615.40	0.59	0.002827
615.60	0.59	0.002828
615.80	0.59	0.002828
616.00	0.59	0.002829
616.20	0.59	0.002829
616.40	0.59	0.002829
616.60	0.59	0.002830
616.80	0.59	0.002830
617.00	0.59	0.002831
617.20	0.59	0.002831
617.40	0.59	0.002831
617.60	0.59	0.002832
617.80	0.59	0.002832

618.00	0.59	0.002833
618.20	0.59	0.002833
618.40	0.59	0.002834
618.60	0.59	0.002834
618.80	0.59	0.002834
619.00	0.59	0.002835
619.20	0.59	0.002835
619.40	0.59	0.002836
619.60	0.59	0.002836
619.80	0.60	0.002836
620.00	0.60	0.002837
620.20	0.60	0.002837
620.40	0.60	0.002838
620.60	0.60	0.002838
620.80	0.60	0.002838
621.00	0.60	0.002839
621.20	0.60	0.002839
621.40	0.60	0.002840
621.60	0.60	0.002840
621.80	0.60	0.002841
622.00	0.60	0.002841
622.20	0.60	0.002841
622.40	0.60	0.002842
622.60	0.60	0.002842
622.80	0.60	0.002843
623.00	0.60	0.002843
623.20	0.60	0.002843
623.40	0.60	0.002844
623.60	0.60	0.002844
623.80	0.60	0.002845
624.00	0.60	0.002845
624.20	0.60	0.002846
624.40	0.60	0.002846
624.60	0.60	0.002846
624.80	0.60	0.002847
625.00	0.60	0.002847
625.20	0.60	0.002848
625.40	0.60	0.002848
625.60	0.60	0.002848
625.80	0.60	0.002849
626.00	0.60	0.002849
626.20	0.60	0.002850
626.40	0.60	0.002850
626.60	0.60	0.002851
626.80	0.60	0.002851
627.00	0.60	0.002851
627.20	0.60	0.002852
627.40	0.60	0.002852
627.60	0.60	0.002853
627.80	0.60	0.002853
628.00	0.60	0.002854
628.20	0.60	0.002854
628.40	0.60	0.002854
628.60	0.60	0.002855
628.80	0.60	0.002855
629.00	0.60	0.002856
629.20	0.60	0.002856
629.40	0.60	0.002856
629.60	0.60	0.002857
629.80	0.60	0.002857
630.00	0.60	0.002858
630.20	0.60	0.002858
630.40	0.60	0.002859
630.60	0.60	0.002859
630.80	0.60	0.002859
631.00	0.60	0.002860

631.20	0.60	0.002860
631.40	0.60	0.002861
631.60	0.60	0.002861
631.80	0.60	0.002862
632.00	0.61	0.002862
632.20	0.61	0.002862
632.40	0.61	0.002863
632.60	0.61	0.002863
632.80	0.61	0.002864
633.00	0.61	0.002864
633.20	0.61	0.002865
633.40	0.61	0.002865
633.60	0.61	0.002865
633.80	0.61	0.002866
634.00	0.61	0.002866
634.20	0.61	0.002867
634.40	0.61	0.002867
634.60	0.61	0.002868
634.80	0.61	0.002868
635.00	0.61	0.002869
635.20	0.61	0.002869
635.40	0.61	0.002869
635.60	0.61	0.002870
635.80	0.61	0.002870
636.00	0.61	0.002871
636.20	0.61	0.002871
636.40	0.61	0.002872
636.60	0.61	0.002872
636.80	0.61	0.002872
637.00	0.61	0.002873
637.20	0.61	0.002873
637.40	0.61	0.002874
637.60	0.61	0.002874
637.80	0.61	0.002875
638.00	0.61	0.002875
638.20	0.61	0.002875
638.40	0.61	0.002876
638.60	0.61	0.002876
638.80	0.61	0.002877
639.00	0.61	0.002877
639.20	0.61	0.002878
639.40	0.61	0.002878
639.60	0.61	0.002879
639.80	0.61	0.002879
640.00	0.61	0.002879
640.20	0.61	0.002880
640.40	0.61	0.002880
640.60	0.61	0.002881
640.80	0.61	0.002881
641.00	0.61	0.002882
641.20	0.61	0.002882
641.40	0.61	0.002883
641.60	0.61	0.002883
641.80	0.61	0.002883
642.00	0.61	0.002884
642.20	0.61	0.002884
642.40	0.61	0.002885
642.60	0.61	0.002885
642.80	0.61	0.002886
643.00	0.61	0.002886
643.20	0.61	0.002887
643.40	0.61	0.002887
643.60	0.61	0.002887
643.80	0.61	0.002888
644.00	0.62	0.002888
644.20	0.62	0.002889

644.40	0.62	0.002889
644.60	0.62	0.002890
644.80	0.62	0.002890
645.00	0.62	0.002891
645.20	0.62	0.002891
645.40	0.62	0.002891
645.60	0.62	0.002892
645.80	0.62	0.002892
646.00	0.62	0.002893
646.20	0.62	0.002893
646.40	0.62	0.002894
646.60	0.62	0.002894
646.80	0.62	0.002895
647.00	0.62	0.002895
647.20	0.62	0.002895
647.40	0.62	0.002896
647.60	0.62	0.002896
647.80	0.62	0.002897
648.00	0.62	0.002897
648.20	0.62	0.002898
648.40	0.62	0.002898
648.60	0.62	0.002899
648.80	0.62	0.002899
649.00	0.62	0.002900
649.20	0.62	0.002900
649.40	0.62	0.002900
649.60	0.62	0.002901
649.80	0.62	0.002901
650.00	0.62	0.002902
650.20	0.62	0.002902
650.40	0.62	0.002903
650.60	0.62	0.002903
650.80	0.62	0.002904
651.00	0.62	0.002904
651.20	0.62	0.002905
651.40	0.62	0.002905
651.60	0.62	0.002906
651.80	0.62	0.002906
652.00	0.62	0.002906
652.20	0.62	0.002907
652.40	0.62	0.002907
652.60	0.62	0.002908
652.80	0.62	0.002908
653.00	0.62	0.002909
653.20	0.62	0.002909
653.40	0.62	0.002910
653.60	0.62	0.002910
653.80	0.62	0.002911
654.00	0.62	0.002911
654.20	0.62	0.002912
654.40	0.62	0.002912
654.60	0.62	0.002912
654.80	0.62	0.002913
655.00	0.62	0.002913
655.20	0.63	0.002914
655.40	0.63	0.002914
655.60	0.63	0.002915
655.80	0.63	0.002915
656.00	0.63	0.002916
656.20	0.63	0.002916
656.40	0.63	0.002917
656.60	0.63	0.002917
656.80	0.63	0.002918
657.00	0.63	0.002918
657.20	0.63	0.002918
657.40	0.63	0.002919

657.60	0.63	0.002919
657.80	0.63	0.002920
658.00	0.63	0.002920
658.20	0.63	0.002921
658.40	0.63	0.002921
658.60	0.63	0.002922
658.80	0.63	0.002922
659.00	0.63	0.002923
659.20	0.63	0.002923
659.40	0.63	0.002924
659.60	0.63	0.002924
659.80	0.63	0.002925
660.00	0.63	0.002925
660.20	0.63	0.002926
660.40	0.63	0.002926
660.60	0.63	0.002927
660.80	0.63	0.002927
661.00	0.63	0.002927
661.20	0.63	0.002928
661.40	0.63	0.002928
661.60	0.63	0.002929
661.80	0.63	0.002929
662.00	0.63	0.002930
662.20	0.63	0.002930
662.40	0.63	0.002931
662.60	0.63	0.002931
662.80	0.63	0.002932
663.00	0.63	0.002932
663.20	0.63	0.002933
663.40	0.63	0.002933
663.60	0.63	0.002934
663.80	0.63	0.002934
664.00	0.63	0.002935
664.20	0.63	0.002935
664.40	0.63	0.002936
664.60	0.63	0.002936
664.80	0.63	0.002937
665.00	0.63	0.002937
665.20	0.63	0.002938
665.40	0.63	0.002938
665.60	0.63	0.002938
665.80	0.63	0.002939
666.00	0.63	0.002939
666.20	0.64	0.002940
666.40	0.64	0.002940
666.60	0.64	0.002941
666.80	0.64	0.002941
667.00	0.64	0.002942
667.20	0.64	0.002942
667.40	0.64	0.002943
667.60	0.64	0.002943
667.80	0.64	0.002944
668.00	0.64	0.002944
668.20	0.64	0.002945
668.40	0.64	0.002945
668.60	0.64	0.002946
668.80	0.64	0.002946
669.00	0.64	0.002947
669.20	0.64	0.002947
669.40	0.64	0.002948
669.60	0.64	0.002948
669.80	0.64	0.002949
670.00	0.64	0.002949
670.20	0.64	0.002950
670.40	0.64	0.002950
670.60	0.64	0.002951

670.80	0.64	0.002951
671.00	0.64	0.002952
671.20	0.64	0.002952
671.40	0.64	0.002953
671.60	0.64	0.002953
671.80	0.64	0.002954
672.00	0.64	0.002954
672.20	0.64	0.002955
672.40	0.64	0.002955
672.60	0.64	0.002956
672.80	0.64	0.002956
673.00	0.64	0.002957
673.20	0.64	0.002957
673.40	0.64	0.002958
673.60	0.64	0.002958
673.80	0.64	0.002959
674.00	0.64	0.002959
674.20	0.64	0.002960
674.40	0.64	0.002960
674.60	0.64	0.002961
674.80	0.64	0.002961
675.00	0.64	0.002962
675.20	0.64	0.002962
675.40	0.64	0.002963
675.60	0.64	0.002963
675.80	0.64	0.002964
676.00	0.64	0.002964
676.20	0.64	0.002965
676.40	0.64	0.002965
676.60	0.64	0.002966
676.80	0.65	0.002966
677.00	0.65	0.002967
677.20	0.65	0.002967
677.40	0.65	0.002968
677.60	0.65	0.002968
677.80	0.65	0.002969
678.00	0.65	0.002969
678.20	0.65	0.002970
678.40	0.65	0.002970
678.60	0.65	0.002971
678.80	0.65	0.002971
679.00	0.65	0.002972
679.20	0.65	0.002972
679.40	0.65	0.002973
679.60	0.65	0.002973
679.80	0.65	0.002974
680.00	0.65	0.002974
680.20	0.65	0.002975
680.40	0.65	0.002975
680.60	0.65	0.002976
680.80	0.65	0.002976
681.00	0.65	0.002977
681.20	0.65	0.002977
681.40	0.65	0.002978
681.60	0.65	0.002978
681.80	0.65	0.002979
682.00	0.65	0.002979
682.20	0.65	0.002980
682.40	0.65	0.002980
682.60	0.65	0.002981
682.80	0.65	0.002981
683.00	0.65	0.002982
683.20	0.65	0.002982
683.40	0.65	0.002983
683.60	0.65	0.002984
683.80	0.65	0.002984

684.00	0.65	0.002985
684.20	0.65	0.002985
684.40	0.65	0.002986
684.60	0.65	0.002986
684.80	0.65	0.002987
685.00	0.65	0.002987
685.20	0.65	0.002988
685.40	0.65	0.002988
685.60	0.65	0.002989
685.80	0.65	0.002989
686.00	0.65	0.002990
686.20	0.65	0.002990
686.40	0.65	0.002991
686.60	0.65	0.002991
686.80	0.66	0.002992
687.00	0.66	0.002992
687.20	0.66	0.002993
687.40	0.66	0.002993
687.60	0.66	0.002994
687.80	0.66	0.002994
688.00	0.66	0.002995
688.20	0.66	0.002995
688.40	0.66	0.002996
688.60	0.66	0.002996
688.80	0.66	0.002997
689.00	0.66	0.002997
689.20	0.66	0.002998
689.40	0.66	0.002999
689.60	0.66	0.002999
689.80	0.66	0.003000
690.00	0.66	0.003000
690.20	0.66	0.003001
690.40	0.66	0.003001
690.60	0.66	0.003002
690.80	0.66	0.003002
691.00	0.66	0.003003
691.20	0.66	0.003003
691.40	0.66	0.003004
691.60	0.66	0.003004
691.80	0.66	0.003005
692.00	0.66	0.003005
692.20	0.66	0.003006
692.40	0.66	0.003007
692.60	0.66	0.003007
692.80	0.66	0.003008
693.00	0.66	0.003008
693.20	0.66	0.003009
693.40	0.66	0.003009
693.60	0.66	0.003010
693.80	0.66	0.003010
694.00	0.66	0.003011
694.20	0.66	0.003011
694.40	0.66	0.003012
694.60	0.66	0.003012
694.80	0.66	0.003013
695.00	0.66	0.003014
695.20	0.66	0.003014
695.40	0.66	0.003015
695.60	0.66	0.003015
695.80	0.66	0.003016
696.00	0.66	0.003016
696.20	0.66	0.003017
696.40	0.66	0.003017
696.60	0.67	0.003018
696.80	0.67	0.003018
697.00	0.67	0.003019

697.20	0.67	0.003019
697.40	0.67	0.003020
697.60	0.67	0.003021
697.80	0.67	0.003021
698.00	0.67	0.003022
698.20	0.67	0.003022
698.40	0.67	0.003023
698.60	0.67	0.003023
698.80	0.67	0.003024
699.00	0.67	0.003024
699.20	0.67	0.003025
699.40	0.67	0.003025
699.60	0.67	0.003026
699.80	0.67	0.003027
700.00	0.67	0.003027
700.20	0.67	0.003028
700.40	0.67	0.003028
700.60	0.67	0.003029
700.80	0.67	0.003029
701.00	0.67	0.003030
701.20	0.67	0.003030
701.40	0.67	0.003031
701.60	0.67	0.003032
701.80	0.67	0.003032
702.00	0.67	0.003033
702.20	0.67	0.003033
702.40	0.67	0.003034
702.60	0.67	0.003034
702.80	0.67	0.003035
703.00	0.67	0.003035
703.20	0.67	0.003036
703.40	0.67	0.003037
703.60	0.67	0.003037
703.80	0.67	0.003038
704.00	0.67	0.003038
704.20	0.67	0.003039
704.40	0.67	0.003039
704.60	0.67	0.003040
704.80	0.67	0.003040
705.00	0.67	0.003041
705.20	0.67	0.003042
705.40	0.67	0.003042
705.60	0.67	0.003043
705.80	0.67	0.003043
706.00	0.68	0.003044
706.20	0.68	0.003044
706.40	0.68	0.003045
706.60	0.68	0.003046
706.80	0.68	0.003046
707.00	0.68	0.003047
707.20	0.68	0.003047
707.40	0.68	0.003048
707.60	0.68	0.003048
707.80	0.68	0.003049
708.00	0.68	0.003049
708.20	0.68	0.003050
708.40	0.68	0.003051
708.60	0.68	0.003051
708.80	0.68	0.003052
709.00	0.68	0.003052
709.20	0.68	0.003053
709.40	0.68	0.003053
709.60	0.68	0.003054
709.80	0.68	0.003055
710.00	0.68	0.003055
710.20	0.68	0.003056

710.40	0.68	0.003056
710.60	0.68	0.003057
710.80	0.68	0.003057
711.00	0.68	0.003058
711.20	0.68	0.003059
711.40	0.68	0.003059
711.60	0.68	0.003060
711.80	0.68	0.003060
712.00	0.68	0.003061
712.20	0.68	0.003062
712.40	0.68	0.003062
712.60	0.68	0.003063
712.80	0.68	0.003063
713.00	0.68	0.003064
713.20	0.68	0.003064
713.40	0.68	0.003065
713.60	0.68	0.003066
713.80	0.68	0.003066
714.00	0.68	0.003067
714.20	0.68	0.003067
714.40	0.68	0.003068
714.60	0.68	0.003068
714.80	0.68	0.003069
715.00	0.69	0.003070
715.20	0.69	0.003070
715.40	0.69	0.003071
715.60	0.69	0.003071
715.80	0.69	0.003072
716.00	0.69	0.003073
716.20	0.69	0.003073
716.40	0.69	0.003074
716.60	0.69	0.003074
716.80	0.69	0.003075
717.00	0.69	0.003076
717.20	0.69	0.003076
717.40	0.69	0.003077
717.60	0.69	0.003077
717.80	0.69	0.003078
718.00	0.69	0.003078
718.20	0.69	0.003079
718.40	0.69	0.003080
718.60	0.69	0.003080
718.80	0.69	0.003081
719.00	0.69	0.003081
719.20	0.69	0.003082
719.40	0.69	0.003083
719.60	0.69	0.003083
719.80	0.69	0.003084
720.00	0.69	0.003084
720.20	0.69	0.003085
720.40	0.69	0.003086
720.60	0.69	0.003086
720.80	0.69	0.003087
721.00	0.69	0.003087
721.20	0.69	0.003088
721.40	0.69	0.003089
721.60	0.69	0.003089
721.80	0.69	0.003090
722.00	0.69	0.003090
722.20	0.69	0.003091
722.40	0.69	0.003092
722.60	0.69	0.003092
722.80	0.69	0.003093
723.00	0.69	0.003093
723.20	0.69	0.003094
723.40	0.69	0.003095

723.60	0.70	0.003095
723.80	0.70	0.003096
724.00	0.70	0.003096
724.20	0.70	0.003097
724.40	0.70	0.003098
724.60	0.70	0.003098
724.80	0.70	0.003099
725.00	0.70	0.003099
725.20	0.70	0.003100
725.40	0.70	0.003101
725.60	0.70	0.003101
725.80	0.70	0.003102
726.00	0.70	0.003103
726.20	0.70	0.003103
726.40	0.70	0.003104
726.60	0.70	0.003104
726.80	0.70	0.003105
727.00	0.70	0.003106
727.20	0.70	0.003106
727.40	0.70	0.003107
727.60	0.70	0.003107
727.80	0.70	0.003108
728.00	0.70	0.003109
728.20	0.70	0.003109
728.40	0.70	0.003110
728.60	0.70	0.003111
728.80	0.70	0.003111
729.00	0.70	0.003112
729.20	0.70	0.003112
729.40	0.70	0.003113
729.60	0.70	0.003114
729.80	0.70	0.003114
730.00	0.70	0.003115
730.20	0.70	0.003115
730.40	0.70	0.003116
730.60	0.70	0.003117
730.80	0.70	0.003117
731.00	0.70	0.003118
731.20	0.70	0.003119
731.40	0.70	0.003119
731.60	0.70	0.003120
731.80	0.70	0.003120
732.00	0.71	0.003121
732.20	0.71	0.003122
732.40	0.71	0.003122
732.60	0.71	0.003123
732.80	0.71	0.003124
733.00	0.71	0.003124
733.20	0.71	0.003125
733.40	0.71	0.003125
733.60	0.71	0.003126
733.80	0.71	0.003127
734.00	0.71	0.003127
734.20	0.71	0.003128
734.40	0.71	0.003129
734.60	0.71	0.003129
734.80	0.71	0.003130
735.00	0.71	0.003131
735.20	0.71	0.003131
735.40	0.71	0.003132
735.60	0.71	0.003132
735.80	0.71	0.003133
736.00	0.71	0.003134
736.20	0.71	0.003134
736.40	0.71	0.003135
736.60	0.71	0.003136

736.80	0.71	0.003136
737.00	0.71	0.003137
737.20	0.71	0.003138
737.40	0.71	0.003138
737.60	0.71	0.003139
737.80	0.71	0.003140
738.00	0.71	0.003140
738.20	0.71	0.003141
738.40	0.71	0.003141
738.60	0.71	0.003142
738.80	0.71	0.003143
739.00	0.71	0.003143
739.20	0.71	0.003144
739.40	0.71	0.003145
739.60	0.71	0.003145
739.80	0.71	0.003146
740.00	0.71	0.003147
740.20	0.72	0.003147
740.40	0.72	0.003148
740.60	0.72	0.003149
740.80	0.72	0.003149
741.00	0.72	0.003150
741.20	0.72	0.003151
741.40	0.72	0.003151
741.60	0.72	0.003152
741.80	0.72	0.003152
742.00	0.72	0.003153
742.20	0.72	0.003154
742.40	0.72	0.003154
742.60	0.72	0.003155
742.80	0.72	0.003156
743.00	0.72	0.003156
743.20	0.72	0.003157
743.40	0.72	0.003158
743.60	0.72	0.003158
743.80	0.72	0.003159
744.00	0.72	0.003160
744.20	0.72	0.003160
744.40	0.72	0.003161
744.60	0.72	0.003162
744.80	0.72	0.003162
745.00	0.72	0.003163
745.20	0.72	0.003164
745.40	0.72	0.003164
745.60	0.72	0.003165
745.80	0.72	0.003166
746.00	0.72	0.003166
746.20	0.72	0.003167
746.40	0.72	0.003168
746.60	0.72	0.003168
746.80	0.72	0.003169
747.00	0.72	0.003170
747.20	0.72	0.003170
747.40	0.72	0.003171
747.60	0.72	0.003172
747.80	0.72	0.003172
748.00	0.73	0.003173
748.20	0.73	0.003174
748.40	0.73	0.003174
748.60	0.73	0.003175
748.80	0.73	0.003176
749.00	0.73	0.003176
749.20	0.73	0.003177
749.40	0.73	0.003178
749.60	0.73	0.003178
749.80	0.73	0.003179

750.00	0.73	0.003180
750.20	0.73	0.003180
750.40	0.73	0.003181
750.60	0.73	0.003182
750.80	0.73	0.003182
751.00	0.73	0.003183
751.20	0.73	0.003184
751.40	0.73	0.003184
751.60	0.73	0.003185
751.80	0.73	0.003186
752.00	0.73	0.003187
752.20	0.73	0.003187
752.40	0.73	0.003188
752.60	0.73	0.003189
752.80	0.73	0.003189
753.00	0.73	0.003190
753.20	0.73	0.003191
753.40	0.73	0.003191
753.60	0.73	0.003192
753.80	0.73	0.003193
754.00	0.73	0.003193
754.20	0.73	0.003194
754.40	0.73	0.003195
754.60	0.73	0.003195
754.80	0.73	0.003196
755.00	0.73	0.003197
755.20	0.73	0.003198
755.40	0.73	0.003198
755.60	0.74	0.003199
755.80	0.74	0.003200
756.00	0.74	0.003200
756.20	0.74	0.003201
756.40	0.74	0.003202
756.60	0.74	0.003202
756.80	0.74	0.003203
757.00	0.74	0.003204
757.20	0.74	0.003205
757.40	0.74	0.003205
757.60	0.74	0.003206
757.80	0.74	0.003207
758.00	0.74	0.003207
758.20	0.74	0.003208
758.40	0.74	0.003209
758.60	0.74	0.003209
758.80	0.74	0.003210
759.00	0.74	0.003211
759.20	0.74	0.003212
759.40	0.74	0.003212
759.60	0.74	0.003213
759.80	0.74	0.003214
760.00	0.74	0.003214
760.20	0.74	0.003215
760.40	0.74	0.003216
760.60	0.74	0.003216
760.80	0.74	0.003217
761.00	0.74	0.003218
761.20	0.74	0.003219
761.40	0.74	0.003219
761.60	0.74	0.003220
761.80	0.74	0.003221
762.00	0.74	0.003221
762.20	0.74	0.003222
762.40	0.74	0.003223
762.60	0.74	0.003224
762.80	0.74	0.003224
763.00	0.75	0.003225

763.20	0.75	0.003226
763.40	0.75	0.003226
763.60	0.75	0.003227
763.80	0.75	0.003228
764.00	0.75	0.003229
764.20	0.75	0.003229
764.40	0.75	0.003230
764.60	0.75	0.003231
764.80	0.75	0.003232
765.00	0.75	0.003232
765.20	0.75	0.003233
765.40	0.75	0.003234
765.60	0.75	0.003234
765.80	0.75	0.003235
766.00	0.75	0.003236
766.20	0.75	0.003237
766.40	0.75	0.003237
766.60	0.75	0.003238
766.80	0.75	0.003239
767.00	0.75	0.003240
767.20	0.75	0.003240
767.40	0.75	0.003241
767.60	0.75	0.003242
767.80	0.75	0.003243
768.00	0.75	0.003243
768.20	0.75	0.003244
768.40	0.75	0.003245
768.60	0.75	0.003245
768.80	0.75	0.003246
769.00	0.75	0.003247
769.20	0.75	0.003248
769.40	0.75	0.003248
769.60	0.75	0.003249
769.80	0.75	0.003250
770.00	0.76	0.003251
770.20	0.76	0.003251
770.40	0.76	0.003252
770.60	0.76	0.003253
770.80	0.76	0.003254
771.00	0.76	0.003254
771.20	0.76	0.003255
771.40	0.76	0.003256
771.60	0.76	0.003257
771.80	0.76	0.003257
772.00	0.76	0.003258
772.20	0.76	0.003259
772.40	0.76	0.003260
772.60	0.76	0.003260
772.80	0.76	0.003261
773.00	0.76	0.003262
773.20	0.76	0.003263
773.40	0.76	0.003263
773.60	0.76	0.003264
773.80	0.76	0.003265
774.00	0.76	0.003266
774.20	0.76	0.003266
774.40	0.76	0.003267
774.60	0.76	0.003268
774.80	0.76	0.003269
775.00	0.76	0.003269
775.20	0.76	0.003270
775.40	0.76	0.003271
775.60	0.76	0.003272
775.80	0.76	0.003272
776.00	0.76	0.003273
776.20	0.76	0.003274

776.40	0.76	0.003275
776.60	0.76	0.003275
776.80	0.76	0.003276
777.00	0.77	0.003277
777.20	0.77	0.003278
777.40	0.77	0.003279
777.60	0.77	0.003279
777.80	0.77	0.003280
778.00	0.77	0.003281
778.20	0.77	0.003282
778.40	0.77	0.003282
778.60	0.77	0.003283
778.80	0.77	0.003284
779.00	0.77	0.003285
779.20	0.77	0.003286
779.40	0.77	0.003286
779.60	0.77	0.003287
779.80	0.77	0.003288
780.00	0.77	0.003289
780.20	0.77	0.003289
780.40	0.77	0.003290
780.60	0.77	0.003291
780.80	0.77	0.003292
781.00	0.77	0.003293
781.20	0.77	0.003293
781.40	0.77	0.003294
781.60	0.77	0.003295
781.80	0.77	0.003296
782.00	0.77	0.003296
782.20	0.77	0.003297
782.40	0.77	0.003298
782.60	0.77	0.003299
782.80	0.77	0.003300
783.00	0.77	0.003300
783.20	0.77	0.003301
783.40	0.77	0.003302
783.60	0.78	0.003303
783.80	0.78	0.003304
784.00	0.78	0.003304
784.20	0.78	0.003305
784.40	0.78	0.003306
784.60	0.78	0.003307
784.80	0.78	0.003307
785.00	0.78	0.003308
785.20	0.78	0.003309
785.40	0.78	0.003310
785.60	0.78	0.003311
785.80	0.78	0.003311
786.00	0.78	0.003312
786.20	0.78	0.003313
786.40	0.78	0.003314
786.60	0.78	0.003315
786.80	0.78	0.003315
787.00	0.78	0.003316
787.20	0.78	0.003317
787.40	0.78	0.003318
787.60	0.78	0.003319
787.80	0.78	0.003320
788.00	0.78	0.003320
788.20	0.78	0.003321
788.40	0.78	0.003322
788.60	0.78	0.003323
788.80	0.78	0.003324
789.00	0.78	0.003324
789.20	0.78	0.003325
789.40	0.78	0.003326

789.60	0.78	0.003327
789.80	0.78	0.003328
790.00	0.79	0.003328
790.20	0.79	0.003329
790.40	0.79	0.003330
790.60	0.79	0.003331
790.80	0.79	0.003332
791.00	0.79	0.003333
791.20	0.79	0.003333
791.40	0.79	0.003334
791.60	0.79	0.003335
791.80	0.79	0.003336
792.00	0.79	0.003337
792.20	0.79	0.003337
792.40	0.79	0.003338
792.60	0.79	0.003339
792.80	0.79	0.003340
793.00	0.79	0.003341
793.20	0.79	0.003342
793.40	0.79	0.003342
793.60	0.79	0.003343
793.80	0.79	0.003344
794.00	0.79	0.003345
794.20	0.79	0.003346
794.40	0.79	0.003347
794.60	0.79	0.003347
794.80	0.79	0.003348
795.00	0.79	0.003349
795.20	0.79	0.003350
795.40	0.79	0.003351
795.60	0.79	0.003352
795.80	0.79	0.003352
796.00	0.79	0.003353
796.20	0.79	0.003354
796.40	0.80	0.003355
796.60	0.80	0.003356
796.80	0.80	0.003357
797.00	0.80	0.003358
797.20	0.80	0.003358
797.40	0.80	0.003359
797.60	0.80	0.003360
797.80	0.80	0.003361
798.00	0.80	0.003362
798.20	0.80	0.003363
798.40	0.80	0.003363
798.60	0.80	0.003364
798.80	0.80	0.003365
799.00	0.80	0.003366
799.20	0.80	0.003367
799.40	0.80	0.003368
799.60	0.80	0.003369
799.80	0.80	0.003369
800.00	0.80	0.003370
800.20	0.80	0.003371
800.40	0.80	0.003372
800.60	0.80	0.003373
800.80	0.80	0.003374
801.00	0.80	0.003375
801.20	0.80	0.003375
801.40	0.80	0.003376
801.60	0.80	0.003377
801.80	0.80	0.003378
802.00	0.80	0.003379
802.20	0.80	0.003380
802.40	0.81	0.003381
802.60	0.81	0.003382

802.80	0.81	0.003382
803.00	0.81	0.003383
803.20	0.81	0.003384
803.40	0.81	0.003385
803.60	0.81	0.003386
803.80	0.81	0.003387
804.00	0.81	0.003388
804.20	0.81	0.003389
804.40	0.81	0.003389
804.60	0.81	0.003390
804.80	0.81	0.003391
805.00	0.81	0.003392
805.20	0.81	0.003393
805.40	0.81	0.003394
805.60	0.81	0.003395
805.80	0.81	0.003396
806.00	0.81	0.003396
806.20	0.81	0.003397
806.40	0.81	0.003398
806.60	0.81	0.003399
806.80	0.81	0.003400
807.00	0.81	0.003401
807.20	0.81	0.003402
807.40	0.81	0.003403
807.60	0.81	0.003404
807.80	0.81	0.003404
808.00	0.81	0.003405
808.20	0.82	0.003406
808.40	0.82	0.003407
808.60	0.82	0.003408
808.80	0.82	0.003409
809.00	0.82	0.003410
809.20	0.82	0.003411
809.40	0.82	0.003412
809.60	0.82	0.003413
809.80	0.82	0.003413
810.00	0.82	0.003414
810.20	0.82	0.003415
810.40	0.82	0.003416
810.60	0.82	0.003417
810.80	0.82	0.003418
811.00	0.82	0.003419
811.20	0.82	0.003420
811.40	0.82	0.003421
811.60	0.82	0.003422
811.80	0.82	0.003423
812.00	0.82	0.003423
812.20	0.82	0.003424
812.40	0.82	0.003425
812.60	0.82	0.003426
812.80	0.82	0.003427
813.00	0.82	0.003428
813.20	0.82	0.003429
813.40	0.82	0.003430
813.60	0.82	0.003431
813.80	0.82	0.003432
814.00	0.83	0.003433
814.20	0.83	0.003434
814.40	0.83	0.003434
814.60	0.83	0.003435
814.80	0.83	0.003436
815.00	0.83	0.003437
815.20	0.83	0.003438
815.40	0.83	0.003439
815.60	0.83	0.003440
815.80	0.83	0.003441

816.00	0.83	0.003442
816.20	0.83	0.003443
816.40	0.83	0.003444
816.60	0.83	0.003445
816.80	0.83	0.003446
817.00	0.83	0.003447
817.20	0.83	0.003447
817.40	0.83	0.003448
817.60	0.83	0.003449
817.80	0.83	0.003450
818.00	0.83	0.003451
818.20	0.83	0.003452
818.40	0.83	0.003453
818.60	0.83	0.003454
818.80	0.83	0.003455
819.00	0.83	0.003456
819.20	0.83	0.003457
819.40	0.84	0.003458
819.60	0.84	0.003459
819.80	0.84	0.003460
820.00	0.84	0.003461
820.20	0.84	0.003462
820.40	0.84	0.003463
820.60	0.84	0.003464
820.80	0.84	0.003465
821.00	0.84	0.003466
821.20	0.84	0.003466
821.40	0.84	0.003467
821.60	0.84	0.003468
821.80	0.84	0.003469
822.00	0.84	0.003470
822.20	0.84	0.003471
822.40	0.84	0.003472
822.60	0.84	0.003473
822.80	0.84	0.003474
823.00	0.84	0.003475
823.20	0.84	0.003476
823.40	0.84	0.003477
823.60	0.84	0.003478
823.80	0.84	0.003479
824.00	0.84	0.003480
824.20	0.84	0.003481
824.40	0.84	0.003482
824.60	0.84	0.003483
824.80	0.85	0.003484
825.00	0.85	0.003485
825.20	0.85	0.003486
825.40	0.85	0.003487
825.60	0.85	0.003488
825.80	0.85	0.003489
826.00	0.85	0.003490
826.20	0.85	0.003491
826.40	0.85	0.003492
826.60	0.85	0.003493
826.80	0.85	0.003494
827.00	0.85	0.003495
827.20	0.85	0.003496
827.40	0.85	0.003497
827.60	0.85	0.003498
827.80	0.85	0.003499
828.00	0.85	0.003500
828.20	0.85	0.003501
828.40	0.85	0.003502
828.60	0.85	0.003503
828.80	0.85	0.003504
829.00	0.85	0.003505

829.20	0.85	0.003506
829.40	0.85	0.003507
829.60	0.85	0.003508
829.80	0.85	0.003509
830.00	0.86	0.003510
830.20	0.86	0.003511
830.40	0.86	0.003512
830.60	0.86	0.003513
830.80	0.86	0.003514
831.00	0.86	0.003515
831.20	0.86	0.003516
831.40	0.86	0.003517
831.60	0.86	0.003518
831.80	0.86	0.003519
832.00	0.86	0.003520
832.20	0.86	0.003521
832.40	0.86	0.003522
832.60	0.86	0.003523
832.80	0.86	0.003524
833.00	0.86	0.003525
833.20	0.86	0.003526
833.40	0.86	0.003527
833.60	0.86	0.003528
833.80	0.86	0.003529
834.00	0.86	0.003530
834.20	0.86	0.003531
834.40	0.86	0.003532
834.60	0.86	0.003533
834.80	0.86	0.003534
835.00	0.86	0.003535
835.20	0.87	0.003536
835.40	0.87	0.003537
835.60	0.87	0.003538
835.80	0.87	0.003539
836.00	0.87	0.003540
836.20	0.87	0.003541
836.40	0.87	0.003542
836.60	0.87	0.003543
836.80	0.87	0.003545
837.00	0.87	0.003546
837.20	0.87	0.003547
837.40	0.87	0.003547
837.60	0.87	0.003548
837.80	0.87	0.003549
838.00	0.87	0.003550
838.20	0.87	0.003551
838.40	0.87	0.003552
838.60	0.87	0.003553
838.80	0.87	0.003554
839.00	0.87	0.003555
839.20	0.87	0.003556
839.40	0.87	0.003557
839.60	0.87	0.003557
839.80	0.87	0.003558
840.00	0.87	0.003559
840.20	0.87	0.003560
840.40	0.87	0.003561
840.60	0.88	0.003562
840.80	0.88	0.003563
841.00	0.88	0.003563
841.20	0.88	0.003564
841.40	0.88	0.003565
841.60	0.88	0.003566
841.80	0.88	0.003567
842.00	0.88	0.003568
842.20	0.88	0.003568

842.40	0.88	0.003569
842.60	0.88	0.003570
842.80	0.88	0.003571
843.00	0.88	0.003572
843.20	0.88	0.003573
843.40	0.88	0.003573
843.60	0.88	0.003574
843.80	0.88	0.003575
844.00	0.88	0.003576
844.20	0.88	0.003577
844.40	0.88	0.003578
844.60	0.88	0.003579
844.80	0.88	0.003579
845.00	0.88	0.003580
845.20	0.88	0.003581
845.40	0.88	0.003582
845.60	0.88	0.003583
845.80	0.88	0.003584
846.00	0.88	0.003584
846.20	0.88	0.003585
846.40	0.88	0.003586
846.60	0.88	0.003587
846.80	0.89	0.003588
847.00	0.89	0.003589
847.20	0.89	0.003590
847.40	0.89	0.003590
847.60	0.89	0.003591
847.80	0.89	0.003592
848.00	0.89	0.003593
848.20	0.89	0.003594
848.40	0.89	0.003595
848.60	0.89	0.003595
848.80	0.89	0.003596
849.00	0.89	0.003597
849.20	0.89	0.003598
849.40	0.89	0.003599
849.60	0.89	0.003600
849.80	0.89	0.003601
850.00	0.89	0.003602
850.20	0.89	0.003602
850.40	0.89	0.003603
850.60	0.89	0.003604
850.80	0.89	0.003605
851.00	0.89	0.003606
851.20	0.89	0.003607
851.40	0.89	0.003608
851.60	0.89	0.003608
851.80	0.89	0.003609
852.00	0.89	0.003610
852.20	0.89	0.003611
852.40	0.89	0.003612
852.60	0.89	0.003613
852.80	0.90	0.003614
853.00	0.90	0.003615
853.20	0.90	0.003615
853.40	0.90	0.003616
853.60	0.90	0.003617
853.80	0.90	0.003618
854.00	0.90	0.003619
854.20	0.90	0.003620
854.40	0.90	0.003621
854.60	0.90	0.003622
854.80	0.90	0.003623
855.00	0.90	0.003623
855.20	0.90	0.003624
855.40	0.90	0.003625

855.60	0.90	0.003626
855.80	0.90	0.003627
856.00	0.90	0.003628
856.20	0.90	0.003629
856.40	0.90	0.003630
856.60	0.90	0.003631
856.80	0.90	0.003631
857.00	0.90	0.003632
857.20	0.90	0.003633
857.40	0.90	0.003634
857.60	0.90	0.003635
857.80	0.90	0.003636
858.00	0.90	0.003637
858.20	0.90	0.003638
858.40	0.90	0.003639
858.60	0.91	0.003640
858.80	0.91	0.003640
859.00	0.91	0.003641
859.20	0.91	0.003642
859.40	0.91	0.003643
859.60	0.91	0.003644
859.80	0.91	0.003645
860.00	0.91	0.003646
860.20	0.91	0.003647
860.40	0.91	0.003648
860.60	0.91	0.003649
860.80	0.91	0.003650
861.00	0.91	0.003650
861.20	0.91	0.003651
861.40	0.91	0.003652
861.60	0.91	0.003653
861.80	0.91	0.003654
862.00	0.91	0.003655
862.20	0.91	0.003656
862.40	0.91	0.003657
862.60	0.91	0.003658
862.80	0.91	0.003659
863.00	0.91	0.003660
863.20	0.91	0.003661
863.40	0.91	0.003662
863.60	0.91	0.003662
863.80	0.91	0.003663
864.00	0.91	0.003664
864.20	0.92	0.003665
864.40	0.92	0.003666
864.60	0.92	0.003667
864.80	0.92	0.003668
865.00	0.92	0.003669
865.20	0.92	0.003670
865.40	0.92	0.003671
865.60	0.92	0.003672
865.80	0.92	0.003673
866.00	0.92	0.003674
866.20	0.92	0.003675
866.40	0.92	0.003676
866.60	0.92	0.003677
866.80	0.92	0.003677
867.00	0.92	0.003678
867.20	0.92	0.003679
867.40	0.92	0.003680
867.60	0.92	0.003681
867.80	0.92	0.003682
868.00	0.92	0.003683
868.20	0.92	0.003684
868.40	0.92	0.003685
868.60	0.92	0.003686

868.80	0.92	0.003687
869.00	0.92	0.003688
869.20	0.92	0.003689
869.40	0.92	0.003690
869.60	0.92	0.003691
869.80	0.93	0.003692
870.00	0.93	0.003693
870.20	0.93	0.003694
870.40	0.93	0.003695
870.60	0.93	0.003696
870.80	0.93	0.003697
871.00	0.93	0.003698
871.20	0.93	0.003699
871.40	0.93	0.003700
871.60	0.93	0.003700
871.80	0.93	0.003701
872.00	0.93	0.003702
872.20	0.93	0.003703
872.40	0.93	0.003704
872.60	0.93	0.003705
872.80	0.93	0.003706
873.00	0.93	0.003707
873.20	0.93	0.003708
873.40	0.93	0.003709
873.60	0.93	0.003710
873.80	0.93	0.003711
874.00	0.93	0.003712
874.20	0.93	0.003713
874.40	0.93	0.003714
874.60	0.93	0.003715
874.80	0.93	0.003716
875.00	0.94	0.003717
875.20	0.94	0.003718
875.40	0.94	0.003719
875.60	0.94	0.003720
875.80	0.94	0.003721
876.00	0.94	0.003722
876.20	0.94	0.003723
876.40	0.94	0.003724
876.60	0.94	0.003725
876.80	0.94	0.003726
877.00	0.94	0.003727
877.20	0.94	0.003728
877.40	0.94	0.003729
877.60	0.94	0.003730
877.80	0.94	0.003731
878.00	0.94	0.003732
878.20	0.94	0.003733
878.40	0.94	0.003734
878.60	0.94	0.003735
878.80	0.94	0.003736
879.00	0.94	0.003737
879.20	0.94	0.003738
879.40	0.94	0.003739
879.60	0.94	0.003740
879.80	0.94	0.003741
880.00	0.94	0.003742
880.20	0.95	0.003743
880.40	0.95	0.003744
880.60	0.95	0.003745
880.80	0.95	0.003747
881.00	0.95	0.003748
881.20	0.95	0.003749
881.40	0.95	0.003750
881.60	0.95	0.003751
881.80	0.95	0.003752

882.00	0.95	0.003753
882.20	0.95	0.003754
882.40	0.95	0.003755
882.60	0.95	0.003756
882.80	0.95	0.003757
883.00	0.95	0.003758
883.20	0.95	0.003759
883.40	0.95	0.003760
883.60	0.95	0.003761
883.80	0.95	0.003762
884.00	0.95	0.003763
884.20	0.95	0.003764
884.40	0.95	0.003765
884.60	0.95	0.003766
884.80	0.95	0.003767
885.00	0.95	0.003768
885.20	0.96	0.003769
885.40	0.96	0.003770
885.60	0.96	0.003771
885.80	0.96	0.003773
886.00	0.96	0.003774
886.20	0.96	0.003775
886.40	0.96	0.003776
886.60	0.96	0.003777
886.80	0.96	0.003778
887.00	0.96	0.003779
887.20	0.96	0.003780
887.40	0.96	0.003781
887.60	0.96	0.003782
887.80	0.96	0.003783
888.00	0.96	0.003784
888.20	0.96	0.003785
888.40	0.96	0.003786
888.60	0.96	0.003787
888.80	0.96	0.003789
889.00	0.96	0.003790
889.20	0.96	0.003791
889.40	0.96	0.003792
889.60	0.96	0.003793
889.80	0.96	0.003794
890.00	0.97	0.003795
890.20	0.97	0.003796
890.40	0.97	0.003797
890.60	0.97	0.003798
890.80	0.97	0.003799
891.00	0.97	0.003800
891.20	0.97	0.003802
891.40	0.97	0.003803
891.60	0.97	0.003804
891.80	0.97	0.003805
892.00	0.97	0.003806
892.20	0.97	0.003807
892.40	0.97	0.003808
892.60	0.97	0.003809
892.80	0.97	0.003810
893.00	0.97	0.003811
893.20	0.97	0.003813
893.40	0.97	0.003814
893.60	0.97	0.003815
893.80	0.97	0.003816
894.00	0.97	0.003817
894.20	0.97	0.003818
894.40	0.97	0.003819
894.60	0.97	0.003820
894.80	0.98	0.003821
895.00	0.98	0.003823

895.20	0.98	0.003824
895.40	0.98	0.003825
895.60	0.98	0.003826
895.80	0.98	0.003827
896.00	0.98	0.003828
896.20	0.98	0.003829
896.40	0.98	0.003830
896.60	0.98	0.003832
896.80	0.98	0.003833
897.00	0.98	0.003834
897.20	0.98	0.003835
897.40	0.98	0.003836
897.60	0.98	0.003837
897.80	0.98	0.003838
898.00	0.98	0.003840
898.20	0.98	0.003841
898.40	0.98	0.003842
898.60	0.98	0.003843
898.80	0.98	0.003844
899.00	0.98	0.003845
899.20	0.98	0.003846
899.40	0.99	0.003848
899.60	0.99	0.003849
899.80	0.99	0.003850
900.00	0.99	0.003851
900.20	0.99	0.003852
900.40	0.99	0.003853
900.60	0.99	0.003855
900.80	0.99	0.003856
901.00	0.99	0.003857
901.20	0.99	0.003858
901.40	0.99	0.003859
901.60	0.99	0.003860
901.80	0.99	0.003861
902.00	0.99	0.003863
902.20	0.99	0.003864
902.40	0.99	0.003865
902.60	0.99	0.003866
902.80	0.99	0.003867
903.00	0.99	0.003869
903.20	0.99	0.003870
903.40	0.99	0.003871
903.60	0.99	0.003872
903.80	1.00	0.003873
904.00	1.00	0.003874
904.20	1.00	0.003876
904.40	1.00	0.003877
904.60	1.00	0.003878
904.80	1.00	0.003879
905.00	1.00	0.003880
905.20	1.00	0.003882
905.40	1.00	0.003883
905.60	1.00	0.003884
905.80	1.00	0.003885
906.00	1.00	0.003886
906.20	1.00	0.003888
906.40	1.00	0.003889
906.60	1.00	0.003890
906.80	1.00	0.003891
907.00	1.00	0.003892
907.20	1.00	0.003894
907.40	1.00	0.003895
907.60	1.00	0.003896
907.80	1.00	0.003897
908.00	1.01	0.003898
908.20	1.01	0.003900

908.40	1.01	0.003901
908.60	1.01	0.003902
908.80	1.01	0.003903
909.00	1.01	0.003905
909.20	1.01	0.003906
909.40	1.01	0.003907
909.60	1.01	0.003908
909.80	1.01	0.003909
910.00	1.01	0.003911
910.20	1.01	0.003912
910.40	1.01	0.003913
910.60	1.01	0.003914
910.80	1.01	0.003916
911.00	1.01	0.003917
911.20	1.01	0.003918
911.40	1.01	0.003919
911.60	1.01	0.003921
911.80	1.01	0.003922
912.00	1.01	0.003923
912.20	1.02	0.003924
912.40	1.02	0.003926
912.60	1.02	0.003927
912.80	1.02	0.003928
913.00	1.02	0.003929
913.20	1.02	0.003931
913.40	1.02	0.003932
913.60	1.02	0.003933
913.80	1.02	0.003934
914.00	1.02	0.003936
914.20	1.02	0.003937
914.40	1.02	0.003938
914.60	1.02	0.003940
914.80	1.02	0.003941
915.00	1.02	0.003942
915.20	1.02	0.003943
915.40	1.02	0.003945
915.60	1.02	0.003946
915.80	1.02	0.003947
916.00	1.02	0.003948
916.20	1.02	0.003950
916.40	1.03	0.003951
916.60	1.03	0.003952
916.80	1.03	0.003954
917.00	1.03	0.003955
917.20	1.03	0.003956
917.40	1.03	0.003958
917.60	1.03	0.003959
917.80	1.03	0.003960
918.00	1.03	0.003961
918.20	1.03	0.003963
918.40	1.03	0.003964
918.60	1.03	0.003965
918.80	1.03	0.003967
919.00	1.03	0.003968
919.20	1.03	0.003969
919.40	1.03	0.003971
919.60	1.03	0.003972
919.80	1.03	0.003973
920.00	1.03	0.003975
920.20	1.03	0.003976
920.40	1.04	0.003977
920.60	1.04	0.003979
920.80	1.04	0.003980
921.00	1.04	0.003981
921.20	1.04	0.003982
921.40	1.04	0.003984

921.60	1.04	0.003985
921.80	1.04	0.003986
922.00	1.04	0.003988
922.20	1.04	0.003989
922.40	1.04	0.003991
922.60	1.04	0.003992
922.80	1.04	0.003993
923.00	1.04	0.003995
923.20	1.04	0.003996
923.40	1.04	0.003997
923.60	1.04	0.003999
923.80	1.04	0.004000
924.00	1.04	0.004001
924.20	1.05	0.004003
924.40	1.05	0.004004
924.60	1.05	0.004005
924.80	1.05	0.004007
925.00	1.05	0.004008
925.20	1.05	0.004010
925.40	1.05	0.004011
925.60	1.05	0.004012
925.80	1.05	0.004014
926.00	1.05	0.004015
926.20	1.05	0.004016
926.40	1.05	0.004018
926.60	1.05	0.004019
926.80	1.05	0.004021
927.00	1.05	0.004022
927.20	1.05	0.004023
927.40	1.05	0.004025
927.60	1.05	0.004026
927.80	1.05	0.004027
928.00	1.06	0.004029
928.20	1.06	0.004030
928.40	1.06	0.004032
928.60	1.06	0.004033
928.80	1.06	0.004035
929.00	1.06	0.004036
929.20	1.06	0.004037
929.40	1.06	0.004039
929.60	1.06	0.004040
929.80	1.06	0.004042
930.00	1.06	0.004043
930.20	1.06	0.004044
930.40	1.06	0.004046
930.60	1.06	0.004047
930.80	1.06	0.004049
931.00	1.06	0.004050
931.20	1.06	0.004051
931.40	1.06	0.004053
931.60	1.07	0.004054
931.80	1.07	0.004056
932.00	1.07	0.004057
932.20	1.07	0.004059
932.40	1.07	0.004060
932.60	1.07	0.004062
932.80	1.07	0.004063
933.00	1.07	0.004064
933.20	1.07	0.004066
933.40	1.07	0.004067
933.60	1.07	0.004069
933.80	1.07	0.004070
934.00	1.07	0.004072
934.20	1.07	0.004073
934.40	1.07	0.004075
934.60	1.07	0.004076

934.80	1.07	0.004078
935.00	1.07	0.004079
935.20	1.08	0.004081
935.40	1.08	0.004082
935.60	1.08	0.004083
935.80	1.08	0.004085
936.00	1.08	0.004086
936.20	1.08	0.004088
936.40	1.08	0.004089
936.60	1.08	0.004091
936.80	1.08	0.004092
937.00	1.08	0.004094
937.20	1.08	0.004095
937.40	1.08	0.004097
937.60	1.08	0.004098
937.80	1.08	0.004100
938.00	1.08	0.004101
938.20	1.08	0.004103
938.40	1.08	0.004104
938.60	1.09	0.004106
938.80	1.09	0.004107
939.00	1.09	0.004109
939.20	1.09	0.004110
939.40	1.09	0.004112
939.60	1.09	0.004113
939.80	1.09	0.004115
940.00	1.09	0.004117
940.20	1.09	0.004118
940.40	1.09	0.004120
940.60	1.09	0.004121
940.80	1.09	0.004123
941.00	1.09	0.004124
941.20	1.09	0.004126
941.40	1.09	0.004127
941.60	1.09	0.004129
941.80	1.09	0.004130
942.00	1.10	0.004132
942.20	1.10	0.004133
942.40	1.10	0.004135
942.60	1.10	0.004137
942.80	1.10	0.004138
943.00	1.10	0.004140
943.20	1.10	0.004141
943.40	1.10	0.004143
943.60	1.10	0.004144
943.80	1.10	0.004146
944.00	1.10	0.004147
944.20	1.10	0.004149
944.40	1.10	0.004150
944.60	1.10	0.004152
944.80	1.10	0.004153
945.00	1.11	0.004154
945.20	1.11	0.004155
945.40	1.11	0.004157
945.60	1.11	0.004158
945.80	1.11	0.004159
946.00	1.11	0.004160
946.20	1.11	0.004162
946.40	1.11	0.004163
946.60	1.11	0.004164
946.80	1.11	0.004165
947.00	1.11	0.004167
947.20	1.11	0.004168
947.40	1.11	0.004169
947.60	1.11	0.004170
947.80	1.11	0.004171

948.00	1.12	0.004173
948.20	1.12	0.004174
948.40	1.12	0.004175
948.60	1.12	0.004176
948.80	1.12	0.004177
949.00	1.12	0.004179
949.20	1.12	0.004180
949.40	1.12	0.004181
949.60	1.12	0.004182
949.80	1.12	0.004183
950.00	1.12	0.004185
950.20	1.12	0.004186
950.40	1.12	0.004187
950.60	1.12	0.004188
950.80	1.12	0.004190
951.00	1.12	0.004191
951.20	1.13	0.004192
951.40	1.13	0.004193
951.60	1.13	0.004194
951.80	1.13	0.004196
952.00	1.13	0.004197
952.20	1.13	0.004198
952.40	1.13	0.004199
952.60	1.13	0.004201
952.80	1.13	0.004202
953.00	1.13	0.004203
953.20	1.13	0.004204
953.40	1.13	0.004205
953.60	1.13	0.004207
953.80	1.13	0.004208
954.00	1.13	0.004209
954.20	1.14	0.004210
954.40	1.14	0.004212
954.60	1.14	0.004213
954.80	1.14	0.004214
955.00	1.14	0.004215
955.20	1.14	0.004217
955.40	1.14	0.004218
955.60	1.14	0.004219
955.80	1.14	0.004220
956.00	1.14	0.004222
956.20	1.14	0.004223
956.40	1.14	0.004224
956.60	1.14	0.004226
956.80	1.14	0.004227
957.00	1.14	0.004228
957.20	1.15	0.004229
957.40	1.15	0.004231
957.60	1.15	0.004232
957.80	1.15	0.004233
958.00	1.15	0.004235
958.20	1.15	0.004236
958.40	1.15	0.004237
958.60	1.15	0.004238
958.80	1.15	0.004240
959.00	1.15	0.004241
959.20	1.15	0.004242
959.40	1.15	0.004244
959.60	1.15	0.004245
959.80	1.15	0.004246
960.00	1.15	0.004247
960.20	1.16	0.004249
960.40	1.16	0.004250
960.60	1.16	0.004251
960.80	1.16	0.004253
961.00	1.16	0.004254

961.20	1.16	0.004255
961.40	1.16	0.004257
961.60	1.16	0.004258
961.80	1.16	0.004259
962.00	1.16	0.004261
962.20	1.16	0.004262
962.40	1.16	0.004263
962.60	1.16	0.004265
962.80	1.16	0.004266
963.00	1.17	0.004267
963.20	1.17	0.004269
963.40	1.17	0.004270
963.60	1.17	0.004271
963.80	1.17	0.004273
964.00	1.17	0.004274
964.20	1.17	0.004275
964.40	1.17	0.004277
964.60	1.17	0.004278
964.80	1.17	0.004280
965.00	1.17	0.004281
965.20	1.17	0.004282
965.40	1.17	0.004284
965.60	1.17	0.004285
965.80	1.18	0.004286
966.00	1.18	0.004288
966.20	1.18	0.004289
966.40	1.18	0.004291
966.60	1.18	0.004292
966.80	1.18	0.004293
967.00	1.18	0.004295
967.20	1.18	0.004296
967.40	1.18	0.004297
967.60	1.18	0.004299
967.80	1.18	0.004300
968.00	1.18	0.004302
968.20	1.18	0.004303
968.40	1.18	0.004304
968.60	1.19	0.004306
968.80	1.19	0.004307
969.00	1.19	0.004309
969.20	1.19	0.004310
969.40	1.19	0.004312
969.60	1.19	0.004313
969.80	1.19	0.004314
970.00	1.19	0.004316
970.20	1.19	0.004317
970.40	1.19	0.004319
970.60	1.19	0.004320
970.80	1.19	0.004322
971.00	1.19	0.004323
971.20	1.20	0.004324
971.40	1.20	0.004326
971.60	1.20	0.004327
971.80	1.20	0.004329
972.00	1.20	0.004330
972.20	1.20	0.004332
972.40	1.20	0.004333
972.60	1.20	0.004335
972.80	1.20	0.004336
973.00	1.20	0.004337
973.20	1.20	0.004339
973.40	1.20	0.004340
973.60	1.20	0.004342
973.80	1.21	0.004343
974.00	1.21	0.004345
974.20	1.21	0.004346

974.40	1.21	0.004348
974.60	1.21	0.004349
974.80	1.21	0.004351
975.00	1.21	0.004352
975.20	1.21	0.004354
975.40	1.21	0.004355
975.60	1.21	0.004357
975.80	1.21	0.004358
976.00	1.21	0.004360
976.20	1.22	0.004361
976.40	1.22	0.004363
976.60	1.22	0.004364
976.80	1.22	0.004366
977.00	1.22	0.004367
977.20	1.22	0.004369
977.40	1.22	0.004370
977.60	1.22	0.004372
977.80	1.22	0.004373
978.00	1.22	0.004375
978.20	1.22	0.004377
978.40	1.22	0.004378
978.60	1.22	0.004380
978.80	1.23	0.004381
979.00	1.23	0.004383
979.20	1.23	0.004384
979.40	1.23	0.004386
979.60	1.23	0.004387
979.80	1.23	0.004389
980.00	1.23	0.004390
980.20	1.23	0.004392
980.40	1.23	0.004394
980.60	1.23	0.004395
980.80	1.23	0.004397
981.00	1.23	0.004398
981.20	1.24	0.004400
981.40	1.24	0.004401
981.60	1.24	0.004403
981.80	1.24	0.004405
982.00	1.24	0.004406
982.20	1.24	0.004408
982.40	1.24	0.004409
982.60	1.24	0.004411
982.80	1.24	0.004413
983.00	1.24	0.004414
983.20	1.24	0.004416
983.40	1.24	0.004417
983.60	1.25	0.004419
983.80	1.25	0.004421
984.00	1.25	0.004422
984.20	1.25	0.004424
984.40	1.25	0.004426
984.60	1.25	0.004427
984.80	1.25	0.004429
985.00	1.25	0.004430
985.20	1.25	0.004432
985.40	1.25	0.004434
985.60	1.25	0.004435
985.80	1.26	0.004437
986.00	1.26	0.004439
986.20	1.26	0.004440
986.40	1.26	0.004442
986.60	1.26	0.004444
986.80	1.26	0.004445
987.00	1.26	0.004447
987.20	1.26	0.004449
987.40	1.26	0.004450

987.60	1.26	0.004452
987.80	1.26	0.004454
988.00	1.27	0.004455
988.20	1.27	0.004457
988.40	1.27	0.004459
988.60	1.27	0.004461
988.80	1.27	0.004462
989.00	1.27	0.004464
989.20	1.27	0.004466
989.40	1.27	0.004467
989.60	1.27	0.004469
989.80	1.27	0.004471
990.00	1.27	0.004473
990.20	1.28	0.004474
990.40	1.28	0.004476
990.60	1.28	0.004478
990.80	1.28	0.004479
991.00	1.28	0.004481
991.20	1.28	0.004483
991.40	1.28	0.004485
991.60	1.28	0.004486
991.80	1.28	0.004488
992.00	1.28	0.004490
992.20	1.28	0.004492
992.40	1.29	0.004493
992.60	1.29	0.004495
992.80	1.29	0.004497
993.00	1.29	0.004499
993.20	1.29	0.004501
993.40	1.29	0.004502
993.60	1.29	0.004504
993.80	1.29	0.004506
994.00	1.29	0.004508
994.20	1.29	0.004509
994.40	1.29	0.004511
994.60	1.30	0.004513
994.80	1.30	0.004515
995.00	1.30	0.004517
995.20	1.30	0.004518
995.40	1.30	0.004520
995.60	1.30	0.004522
995.80	1.30	0.004524
996.00	1.30	0.004526
996.20	1.30	0.004528
996.40	1.30	0.004529
996.60	1.31	0.004531
996.80	1.31	0.004533
997.00	1.31	0.004535
997.20	1.31	0.004537
997.40	1.31	0.004539
997.60	1.31	0.004541
997.80	1.31	0.004542
998.00	1.31	0.004544
998.20	1.31	0.004546
998.40	1.31	0.004548
998.60	1.32	0.004550
998.80	1.32	0.004552
999.00	1.32	0.004554
999.20	1.32	0.004556
999.40	1.32	0.004557
999.60	1.32	0.004559
999.80	1.32	0.004561
1000.00	1.32	0.004563
1000.20	1.32	0.004565
1000.40	1.32	0.004567
1000.60	1.33	0.004569

1000.80	1.33	0.004571
1001.00	1.33	0.004573
1001.20	1.33	0.004575
1001.40	1.33	0.004577
1001.60	1.33	0.004579
1001.80	1.33	0.004581
1002.00	1.33	0.004582
1002.20	1.33	0.004584
1002.40	1.33	0.004586
1002.60	1.34	0.004588
1002.80	1.34	0.004590
1003.00	1.34	0.004592
1003.20	1.34	0.004594
1003.40	1.34	0.004596
1003.60	1.34	0.004598
1003.80	1.34	0.004600
1004.00	1.34	0.004602
1004.20	1.34	0.004604
1004.40	1.35	0.004606
1004.60	1.35	0.004608
1004.80	1.35	0.004610
1005.00	1.35	0.004612
1005.20	1.35	0.004614
1005.40	1.35	0.004616
1005.60	1.35	0.004618
1005.80	1.35	0.004620
1006.00	1.35	0.004622
1006.20	1.35	0.004624
1006.40	1.36	0.004626
1006.60	1.36	0.004629
1006.80	1.36	0.004631
1007.00	1.36	0.004633
1007.20	1.36	0.004635
1007.40	1.36	0.004637
1007.60	1.36	0.004639
1007.80	1.36	0.004641
1008.00	1.36	0.004643
1008.20	1.37	0.004645
1008.40	1.37	0.004647
1008.60	1.37	0.004649
1008.80	1.37	0.004651
1009.00	1.37	0.004653
1009.20	1.37	0.004656
1009.40	1.37	0.004658
1009.60	1.37	0.004660
1009.80	1.37	0.004662
1010.00	1.38	0.004664
1010.20	1.38	0.004666
1010.40	1.38	0.004668
1010.60	1.38	0.004670
1010.80	1.38	0.004673
1011.00	1.38	0.004675
1011.20	1.38	0.004677
1011.40	1.38	0.004679
1011.60	1.38	0.004681
1011.80	1.39	0.004683
1012.00	1.39	0.004686
1012.20	1.39	0.004688
1012.40	1.39	0.004690
1012.60	1.39	0.004692
1012.80	1.39	0.004694
1013.00	1.39	0.004697
1013.20	1.39	0.004699
1013.40	1.40	0.004701
1013.60	1.40	0.004703
1013.80	1.40	0.004705

1014.00	1.40	0.004708
1014.20	1.40	0.004710
1014.40	1.40	0.004712
1014.60	1.40	0.004714
1014.80	1.40	0.004717
1015.00	1.40	0.004719
1015.20	1.41	0.004721
1015.40	1.41	0.004723
1015.60	1.41	0.004726
1015.80	1.41	0.004728
1016.00	1.41	0.004730
1016.20	1.41	0.004732
1016.40	1.41	0.004735
1016.60	1.41	0.004737
1016.80	1.42	0.004739
1017.00	1.42	0.004742
1017.20	1.42	0.004744
1017.40	1.42	0.004746
1017.60	1.42	0.004749
1017.80	1.42	0.004751
1018.00	1.42	0.004753
1018.20	1.42	0.004756
1018.40	1.43	0.004758
1018.60	1.43	0.004760
1018.80	1.43	0.004763
1019.00	1.43	0.004765
1019.20	1.43	0.004767
1019.40	1.43	0.004770
1019.60	1.43	0.004772
1019.80	1.43	0.004775
1020.00	1.44	0.004777
1020.20	1.44	0.004779
1020.40	1.44	0.004782
1020.60	1.44	0.004784
1020.80	1.44	0.004787
1021.00	1.44	0.004789
1021.20	1.44	0.004791
1021.40	1.44	0.004794
1021.60	1.45	0.004796
1021.80	1.45	0.004799
1022.00	1.45	0.004801
1022.20	1.45	0.004804
1022.40	1.45	0.004806
1022.60	1.45	0.004809
1022.80	1.45	0.004811
1023.00	1.46	0.004814
1023.20	1.46	0.004816
1023.40	1.46	0.004819
1023.60	1.46	0.004821
1023.80	1.46	0.004824
1024.00	1.46	0.004826
1024.20	1.46	0.004829
1024.40	1.46	0.004831
1024.60	1.47	0.004834
1024.80	1.47	0.004836
1025.00	1.47	0.004839
1025.20	1.47	0.004841
1025.40	1.47	0.004844
1025.60	1.47	0.004847
1025.80	1.47	0.004849
1026.00	1.48	0.004852
1026.20	1.48	0.004854
1026.40	1.48	0.004857
1026.60	1.48	0.004859
1026.80	1.48	0.004862
1027.00	1.48	0.004865

1027.20	1.48	0.004867
1027.40	1.48	0.004870
1027.60	1.49	0.004873
1027.80	1.49	0.004875
1028.00	1.49	0.004878
1028.20	1.49	0.004881
1028.40	1.49	0.004883
1028.60	1.49	0.004886
1028.80	1.49	0.004889
1029.00	1.50	0.004891
1029.20	1.50	0.004894
1029.40	1.50	0.004897
1029.60	1.50	0.004899
1029.80	1.50	0.004902
1030.00	1.50	0.004905
1030.20	1.50	0.004907
1030.40	1.51	0.004910
1030.60	1.51	0.004913
1030.80	1.51	0.004916
1031.00	1.51	0.004918
1031.20	1.51	0.004921
1031.40	1.51	0.004924
1031.60	1.52	0.004927
1031.80	1.52	0.004930
1032.00	1.52	0.004932
1032.20	1.52	0.004935
1032.40	1.52	0.004938
1032.60	1.52	0.004941
1032.80	1.52	0.004944
1033.00	1.53	0.004946
1033.20	1.53	0.004949
1033.40	1.53	0.004952
1033.60	1.53	0.004955
1033.80	1.53	0.004958
1034.00	1.53	0.004961
1034.20	1.53	0.004964
1034.40	1.54	0.004966
1034.60	1.54	0.004969
1034.80	1.54	0.004972
1035.00	1.54	0.004975
1035.20	1.54	0.004978
1035.40	1.54	0.004981
1035.60	1.55	0.004984
1035.80	1.55	0.004987
1036.00	1.55	0.004990
1036.20	1.55	0.004993
1036.40	1.55	0.004996
1036.60	1.55	0.004999
1036.80	1.55	0.005002
1037.00	1.56	0.005005
1037.20	1.56	0.005008
1037.40	1.56	0.005011
1037.60	1.56	0.005014
1037.80	1.56	0.005017
1038.00	1.56	0.005020
1038.20	1.57	0.005023
1038.40	1.57	0.005026
1038.60	1.57	0.005029
1038.80	1.57	0.005032
1039.00	1.57	0.005035
1039.20	1.57	0.005038
1039.40	1.58	0.005041
1039.60	1.58	0.005044
1039.80	1.58	0.005047
1040.00	1.58	0.005051
1040.20	1.58	0.005054

1040.40	1.58	0.005057
1040.60	1.59	0.005060
1040.80	1.59	0.005063
1041.00	1.59	0.005066
1041.20	1.59	0.005069
1041.40	1.59	0.005073
1041.60	1.59	0.005076
1041.80	1.60	0.005079
1042.00	1.60	0.005082
1042.20	1.60	0.005085
1042.40	1.60	0.005089
1042.60	1.60	0.005092
1042.80	1.60	0.005095
1043.00	1.61	0.005098
1043.20	1.61	0.005102
1043.40	1.61	0.005105
1043.60	1.61	0.005108
1043.80	1.61	0.005112
1044.00	1.61	0.005115
1044.20	1.62	0.005118
1044.40	1.62	0.005122
1044.60	1.62	0.005125
1044.80	1.62	0.005128
1045.00	1.62	0.005132
1045.20	1.63	0.005135
1045.40	1.63	0.005138
1045.60	1.63	0.005142
1045.80	1.63	0.005145
1046.00	1.63	0.005149
1046.20	1.63	0.005152
1046.40	1.64	0.005155
1046.60	1.64	0.005159
1046.80	1.64	0.005162
1047.00	1.64	0.005166
1047.20	1.64	0.005169
1047.40	1.65	0.005173
1047.60	1.65	0.005176
1047.80	1.65	0.005180
1048.00	1.65	0.005183
1048.20	1.65	0.005187
1048.40	1.65	0.005190
1048.60	1.66	0.005194
1048.80	1.66	0.005197
1049.00	1.66	0.005201
1049.20	1.66	0.005205
1049.40	1.66	0.005208
1049.60	1.67	0.005212
1049.80	1.67	0.005215
1050.00	1.67	0.005219
1050.20	1.67	0.005223
1050.40	1.67	0.005226
1050.60	1.68	0.005230
1050.80	1.68	0.005234
1051.00	1.68	0.005237
1051.20	1.68	0.005241
1051.40	1.68	0.005245
1051.60	1.69	0.005248
1051.80	1.69	0.005252
1052.00	1.69	0.005256
1052.20	1.69	0.005260
1052.40	1.69	0.005263
1052.60	1.70	0.005267
1052.80	1.70	0.005271
1053.00	1.70	0.005275
1053.20	1.70	0.005279
1053.40	1.70	0.005282

1053.60	1.71	0.005286
1053.80	1.71	0.005290
1054.00	1.71	0.005294
1054.20	1.71	0.005298
1054.40	1.71	0.005302
1054.60	1.72	0.005306
1054.80	1.72	0.005310
1055.00	1.72	0.005313
1055.20	1.72	0.005317
1055.40	1.72	0.005321
1055.60	1.73	0.005325
1055.80	1.73	0.005329
1056.00	1.73	0.005333
1056.20	1.73	0.005337
1056.40	1.73	0.005341
1056.60	1.74	0.005345
1056.80	1.74	0.005349
1057.00	1.74	0.005354
1057.20	1.74	0.005358
1057.40	1.75	0.005362
1057.60	1.75	0.005366
1057.80	1.75	0.005370
1058.00	1.75	0.005374
1058.20	1.75	0.005378
1058.40	1.76	0.005382
1058.60	1.76	0.005386
1058.80	1.76	0.005390
1059.00	1.76	0.005394
1059.20	1.77	0.005398
1059.40	1.77	0.005402
1059.60	1.77	0.005406
1059.80	1.77	0.005410
1060.00	1.77	0.005414
1060.20	1.78	0.005417
1060.40	1.78	0.005421
1060.60	1.78	0.005425
1060.80	1.78	0.005429
1061.00	1.78	0.005433
1061.20	1.79	0.005437
1061.40	1.79	0.005440
1061.60	1.79	0.005444
1061.80	1.79	0.005448
1062.00	1.79	0.005452
1062.20	1.80	0.005456
1062.40	1.80	0.005460
1062.60	1.80	0.005463
1062.80	1.80	0.005467
1063.00	1.80	0.005471
1063.20	1.81	0.005475
1063.40	1.81	0.005479
1063.60	1.81	0.005483
1063.80	1.81	0.005487
1064.00	1.81	0.005491
1064.20	1.82	0.005495
1064.40	1.82	0.005499
1064.60	1.82	0.005503
1064.80	1.82	0.005507
1065.00	1.82	0.005511
1065.20	1.83	0.005515
1065.40	1.83	0.005519
1065.60	1.83	0.005523
1065.80	1.83	0.005527
1066.00	1.84	0.005531
1066.20	1.84	0.005535
1066.40	1.84	0.005539
1066.60	1.84	0.005543

1066.80	1.84	0.005547
1067.00	1.85	0.005551
1067.20	1.85	0.005555
1067.40	1.85	0.005560
1067.60	1.85	0.005564
1067.80	1.86	0.005568
1068.00	1.86	0.005572
1068.20	1.86	0.005576
1068.40	1.86	0.005581
1068.60	1.86	0.005585
1068.80	1.87	0.005589
1069.00	1.87	0.005593
1069.20	1.87	0.005598
1069.40	1.87	0.005602
1069.60	1.88	0.005606
1069.80	1.88	0.005611
1070.00	1.88	0.005615
1070.20	1.88	0.005620
1070.40	1.88	0.005624
1070.60	1.89	0.005628
1070.80	1.89	0.005633
1071.00	1.89	0.005637
1071.20	1.89	0.005642
1071.40	1.90	0.005646
1071.60	1.90	0.005651
1071.80	1.90	0.005655
1072.00	1.90	0.005660
1072.20	1.91	0.005664
1072.40	1.91	0.005669
1072.60	1.91	0.005673
1072.80	1.91	0.005678
1073.00	1.92	0.005682
1073.20	1.92	0.005687
1073.40	1.92	0.005692
1073.60	1.92	0.005696
1073.80	1.93	0.005701
1074.00	1.93	0.005706
1074.20	1.93	0.005711
1074.40	1.93	0.005715
1074.60	1.94	0.005720
1074.80	1.94	0.005725
1075.00	1.94	0.005730
1075.20	1.94	0.005734
1075.40	1.95	0.005739
1075.60	1.95	0.005744
1075.80	1.95	0.005749
1076.00	1.95	0.005754
1076.20	1.96	0.005759
1076.40	1.96	0.005764
1076.60	1.96	0.005769
1076.80	1.96	0.005774
1077.00	1.97	0.005778
1077.20	1.97	0.005783
1077.40	1.97	0.005788
1077.60	1.97	0.005794
1077.80	1.98	0.005799
1078.00	1.98	0.005804
1078.20	1.98	0.005809
1078.40	1.99	0.005814
1078.60	1.99	0.005819
1078.80	1.99	0.005824
1079.00	1.99	0.005829
1079.20	2.00	0.005835
1079.40	2.00	0.005840
1079.60	2.00	0.005845
1079.80	2.00	0.005850

1080.00	2.01	0.005856
1080.20	2.01	0.005861
1080.40	2.01	0.005866
1080.60	2.02	0.005872
1080.80	2.02	0.005877
1081.00	2.02	0.005882
1081.20	2.02	0.005888
1081.40	2.03	0.005893
1081.60	2.03	0.005899
1081.80	2.03	0.005904
1082.00	2.04	0.005910
1082.20	2.04	0.005915
1082.40	2.04	0.005921
1082.60	2.05	0.005926
1082.80	2.05	0.005932
1083.00	2.05	0.005938
1083.20	2.05	0.005943
1083.40	2.06	0.005949
1083.60	2.06	0.005955
1083.80	2.06	0.005960
1084.00	2.07	0.005966
1084.20	2.07	0.005972
1084.40	2.07	0.005978
1084.60	2.08	0.005984
1084.80	2.08	0.005989
1085.00	2.08	0.005995
1085.20	2.08	0.006001
1085.40	2.09	0.006007
1085.60	2.09	0.006013
1085.80	2.09	0.006019
1086.00	2.10	0.006025
1086.20	2.10	0.006031
1086.40	2.10	0.006037
1086.60	2.11	0.006043
1086.80	2.11	0.006049
1087.00	2.11	0.006056
1087.20	2.12	0.006062
1087.40	2.12	0.006068
1087.60	2.12	0.006074
1087.80	2.13	0.006080
1088.00	2.13	0.006087
1088.20	2.13	0.006093
1088.40	2.14	0.006099
1088.60	2.14	0.006106
1088.80	2.14	0.006112
1089.00	2.15	0.006119
1089.20	2.15	0.006125
1089.40	2.15	0.006132
1089.60	2.16	0.006138
1089.80	2.16	0.006145
1090.00	2.16	0.006151
1090.20	2.17	0.006158
1090.40	2.17	0.006165
1090.60	2.17	0.006171
1090.80	2.18	0.006178
1091.00	2.18	0.006185
1091.20	2.19	0.006191
1091.40	2.19	0.006198
1091.60	2.19	0.006205
1091.80	2.20	0.006212
1092.00	2.20	0.006219
1092.20	2.21	0.006225
1092.40	2.21	0.006232
1092.60	2.21	0.006238
1092.80	2.22	0.006243
1093.00	2.22	0.006249

1093.20	2.23	0.006255
1093.40	2.23	0.006260
1093.60	2.24	0.006265
1093.80	2.24	0.006271
1094.00	2.24	0.006276
1094.20	2.25	0.006281
1094.40	2.25	0.006287
1094.60	2.26	0.006292
1094.80	2.26	0.006297
1095.00	2.27	0.006302
1095.20	2.27	0.006308
1095.40	2.27	0.006313
1095.60	2.28	0.006318
1095.80	2.28	0.006324
1096.00	2.29	0.006329
1096.20	2.29	0.006334
1096.40	2.29	0.006340
1096.60	2.30	0.006345
1096.80	2.30	0.006351
1097.00	2.31	0.006356
1097.20	2.31	0.006362
1097.40	2.31	0.006367
1097.60	2.32	0.006373
1097.80	2.32	0.006378
1098.00	2.33	0.006384
1098.20	2.33	0.006389
1098.40	2.34	0.006395
1098.60	2.34	0.006401
1098.80	2.35	0.006407
1099.00	2.35	0.006412
1099.20	2.35	0.006418
1099.40	2.36	0.006424
1099.60	2.36	0.006430
1099.80	2.37	0.006436
1100.00	2.37	0.006442
1100.20	2.38	0.006448
1100.40	2.38	0.006454
1100.60	2.39	0.006460
1100.80	2.39	0.006466
1101.00	2.40	0.006472
1101.20	2.40	0.006478
1101.40	2.40	0.006484
1101.60	2.41	0.006490
1101.80	2.41	0.006496
1102.00	2.42	0.006503
1102.20	2.42	0.006509
1102.40	2.43	0.006515
1102.60	2.43	0.006522
1102.80	2.44	0.006528
1103.00	2.44	0.006535
1103.20	2.45	0.006541
1103.40	2.45	0.006548
1103.60	2.46	0.006554
1103.80	2.46	0.006561
1104.00	2.47	0.006567
1104.20	2.47	0.006574
1104.40	2.48	0.006581
1104.60	2.48	0.006588
1104.80	2.49	0.006595
1105.00	2.50	0.006601
1105.20	2.50	0.006608
1105.40	2.51	0.006615
1105.60	2.51	0.006622
1105.80	2.52	0.006629
1106.00	2.52	0.006636
1106.20	2.53	0.006643

1106.40	2.53	0.006651
1106.60	2.54	0.006658
1106.80	2.54	0.006665
1107.00	2.55	0.006672
1107.20	2.56	0.006680
1107.40	2.56	0.006687
1107.60	2.57	0.006695
1107.80	2.57	0.006702
1108.00	2.58	0.006710
1108.20	2.58	0.006717
1108.40	2.59	0.006725
1108.60	2.60	0.006733
1108.80	2.60	0.006740
1109.00	2.61	0.006748
1109.20	2.61	0.006756
1109.40	2.62	0.006764
1109.60	2.63	0.006772
1109.80	2.63	0.006780
1110.00	2.64	0.006788
1110.20	2.65	0.006796
1110.40	2.65	0.006804
1110.60	2.66	0.006812
1110.80	2.66	0.006821
1111.00	2.67	0.006829
1111.20	2.68	0.006838
1111.40	2.68	0.006846
1111.60	2.69	0.006855
1111.80	2.70	0.006863
1112.00	2.70	0.006872
1112.20	2.71	0.006881
1112.40	2.72	0.006889
1112.60	2.72	0.006898
1112.80	2.73	0.006907
1113.00	2.74	0.006916
1113.20	2.74	0.006925
1113.40	2.75	0.006934
1113.60	2.76	0.006943
1113.80	2.77	0.006953
1114.00	2.77	0.006962
1114.20	2.78	0.006971
1114.40	2.79	0.006981
1114.60	2.79	0.006990
1114.80	2.80	0.007000
1115.00	2.81	0.007010
1115.20	2.82	0.007019
1115.40	2.82	0.007029
1115.60	2.83	0.007039
1115.80	2.84	0.007049
1116.00	2.85	0.007059
1116.20	2.86	0.007069
1116.40	2.86	0.007079
1116.60	2.87	0.007090
1116.80	2.88	0.007100
1117.00	2.89	0.007111
1117.20	2.90	0.007121
1117.40	2.90	0.007132
1117.60	2.91	0.007142
1117.80	2.92	0.007153
1118.00	2.93	0.007164
1118.20	2.94	0.007175
1118.40	2.95	0.007186
1118.60	2.95	0.007197
1118.80	2.96	0.007209
1119.00	2.97	0.007220
1119.20	2.98	0.007232
1119.40	2.99	0.007243

1119.60	3.00	0.007255
1119.80	3.01	0.007267
1120.00	3.02	0.007278
1120.20	3.03	0.007290
1120.40	3.03	0.007303
1120.60	3.04	0.007315
1120.80	3.05	0.007327
1121.00	3.06	0.007339
1121.20	3.07	0.007352
1121.40	3.08	0.007365
1121.60	3.09	0.007377
1121.80	3.10	0.007390
1122.00	3.11	0.007403
1122.20	3.12	0.007416
1122.40	3.13	0.007430
1122.60	3.14	0.007443
1122.80	3.15	0.007456
1123.00	3.16	0.007470
1123.20	3.17	0.007484
1123.40	3.18	0.007498
1123.60	3.20	0.007512
1123.80	3.21	0.007526
1124.00	3.22	0.007540
1124.20	3.23	0.007555
1124.40	3.24	0.007569
1124.60	3.25	0.007584
1124.80	3.26	0.007599
1125.00	3.27	0.007614
1125.20	3.29	0.007629
1125.40	3.30	0.007644
1125.60	3.31	0.007660
1125.80	3.32	0.007676
1126.00	3.33	0.007691
1126.20	3.35	0.007707
1126.40	3.36	0.007724
1126.60	3.37	0.007740
1126.80	3.38	0.007756
1127.00	3.40	0.007773
1127.20	3.41	0.007790
1127.40	3.42	0.007807
1127.60	3.44	0.007824
1127.80	3.45	0.007842
1128.00	3.46	0.007860
1128.20	3.48	0.007877
1128.40	3.49	0.007895
1128.60	3.50	0.007914
1128.80	3.52	0.007932
1129.00	3.53	0.007951
1129.20	3.55	0.007970
1129.40	3.56	0.007989
1129.60	3.58	0.008008
1129.80	3.59	0.008028
1130.00	3.61	0.008048
1130.20	3.62	0.008068
1130.40	3.64	0.008088
1130.60	3.65	0.008109
1130.80	3.67	0.008130
1131.00	3.69	0.008151
1131.20	3.70	0.008172
1131.40	3.72	0.008194
1131.60	3.74	0.008216
1131.80	3.75	0.008238
1132.00	3.77	0.008261
1132.20	3.79	0.008284
1132.40	3.80	0.008307
1132.60	3.82	0.008332

1132.80	3.83	0.008359
1133.00	3.85	0.008388
1133.20	3.86	0.008417
1133.40	3.88	0.008448
1133.60	3.89	0.008480
1133.80	3.91	0.008512
1134.00	3.93	0.008546
1134.20	3.95	0.008581
1134.40	3.96	0.008615
1134.60	3.98	0.008650
1134.80	4.00	0.008686
1135.00	4.02	0.008722
1135.20	4.04	0.008758
1135.40	4.06	0.008794
1135.60	4.08	0.008831
1135.80	4.10	0.008869
1136.00	4.12	0.008907
1136.20	4.14	0.008945
1136.40	4.16	0.008984
1136.60	4.18	0.009023
1136.80	4.20	0.009063
1137.00	4.22	0.009104
1137.20	4.24	0.009145
1137.40	4.27	0.009187
1137.60	4.29	0.009230
1137.80	4.31	0.009273
1138.00	4.33	0.009317
1138.20	4.36	0.009362
1138.40	4.38	0.009407
1138.60	4.41	0.009453
1138.80	4.43	0.009500
1139.00	4.46	0.009548
1139.20	4.48	0.009596
1139.40	4.51	0.009646
1139.60	4.53	0.009696
1139.80	4.56	0.009747
1140.00	4.59	0.009799
1140.20	4.62	0.009853
1140.40	4.65	0.009907
1140.60	4.67	0.009962
1140.80	4.70	0.010018
1141.00	4.73	0.010076
1141.20	4.77	0.010134
1141.40	4.80	0.010194
1141.60	4.83	0.010255
1141.80	4.86	0.010317
1142.00	4.89	0.010381
1142.20	4.92	0.010447
1142.40	4.95	0.010516
1142.60	4.98	0.010589
1142.80	5.02	0.010663
1143.00	5.05	0.010741
1143.20	5.08	0.010821
1143.40	5.12	0.010904
1143.60	5.16	0.010990
1143.80	5.19	0.011079
1144.00	5.23	0.011170
1144.20	5.27	0.011264
1144.40	5.31	0.011361
1144.60	5.36	0.011461
1144.80	5.40	0.011564
1145.00	5.45	0.011671
1145.20	5.49	0.011780
1145.40	5.54	0.011893
1145.60	5.59	0.012009
1145.80	5.64	0.012129

1146.00	5.70	0.012253
1146.20	5.75	0.012381
1146.40	5.81	0.012513
1146.60	5.85	0.012653
1146.80	5.90	0.012802
1147.00	5.95	0.012958
1147.20	6.01	0.013122
1147.40	6.06	0.013295
1147.60	6.12	0.013476
1147.80	6.19	0.013666
1148.00	6.25	0.013866
1148.20	6.32	0.014075
1148.40	6.39	0.014293
1148.60	6.47	0.014519
1148.80	6.55	0.014756
1149.00	6.63	0.015002
1149.20	6.71	0.015260
1149.40	6.80	0.015530
1149.60	6.89	0.015814
1149.80	6.99	0.016113
1150.00	7.10	0.016429
1150.20	7.21	0.016765
1150.40	7.31	0.017127
1150.60	7.42	0.017518
1150.80	7.53	0.017942
1151.00	7.66	0.018406
1151.20	7.80	0.018917
1151.40	7.96	0.019486
1151.60	8.14	0.020134
1151.80	8.34	0.020902
1152.00	8.62	0.022025
1152.20	8.96	0.023260
1152.40	9.26	0.024480
1152.60	9.55	0.025665
1152.80	9.83	0.026805
1153.00	10.08	0.027899
1153.20	10.29	0.028952
1153.40	10.51	0.029957
1153.60	10.74	0.030904
1153.80	10.95	0.031798
1154.00	11.12	0.032647
1154.20	11.28	0.033451
1154.40	11.43	0.034210
1154.60	11.57	0.034924
1154.80	11.71	0.035593
1155.00	11.83	0.036218
1155.20	11.95	0.036799
1155.40	12.06	0.037338
1155.60	12.16	0.037834
1155.80	12.25	0.038288
1156.00	12.33	0.038701
1156.20	12.41	0.039074
1156.40	12.48	0.039407
1156.60	12.54	0.039700
1156.80	12.59	0.039955
1157.00	12.63	0.040172
1157.20	12.67	0.040351
1157.40	12.70	0.040493
1157.60	12.73	0.040597
1157.80	12.74	0.040665
1158.00	12.75	0.040696
1158.20	12.76	0.040694
1158.40	12.75	0.040671
1158.60	12.74	0.040611
1158.80	12.72	0.040515
1159.00	12.70	0.040383

1159.20	12.66	0.040213
1159.40	12.62	0.040006
1159.60	12.58	0.039760
1159.80	12.52	0.039475
1160.00	12.46	0.039148
1160.20	12.39	0.038775
1160.40	12.30	0.038355
1160.60	12.21	0.037884
1160.80	12.11	0.037360
1161.00	12.00	0.036778
1161.20	11.88	0.036132
1161.40	11.74	0.035411
1161.60	11.58	0.034602
1161.80	11.40	0.033675
1162.00	11.17	0.032488
1162.20	10.89	0.031035
1162.40	10.52	0.029525
1162.60	10.21	0.028039
1162.80	9.91	0.026587
1163.00	9.56	0.025188
1163.20	9.23	0.023844
1163.40	8.90	0.022559
1163.60	8.54	0.021346
1163.80	8.19	0.020199
1164.00	7.87	0.019114
1164.20	7.57	0.018089
1164.40	7.28	0.017120
1164.60	6.97	0.016214
1164.80	6.68	0.015369
1165.00	6.40	0.014581
1165.20	6.14	0.013847
1165.40	5.91	0.013162
1165.60	5.65	0.012532
1165.80	5.39	0.011959
1166.00	5.15	0.011438
1166.20	4.93	0.010962
1166.40	4.70	0.010538
1166.60	4.49	0.010160
1166.80	4.30	0.009822
1167.00	4.13	0.009520
1167.20	3.98	0.009250
1167.40	3.84	0.009006
1167.60	3.68	0.008796
1167.80	3.53	0.008617
1168.00	3.41	0.008464
1168.20	3.30	0.008333
1168.40	3.20	0.008219
1168.60	3.12	0.008120
1168.80	3.05	0.008032
1169.00	2.98	0.007954
1169.20	2.93	0.007884
1169.40	2.88	0.007821
1169.60	2.83	0.007764
1169.80	2.79	0.007712
1170.00	2.75	0.007663
1170.20	2.71	0.007618
1170.40	2.68	0.007576
1170.60	2.65	0.007536
1170.80	2.62	0.007499
1171.00	2.59	0.007464
1171.20	2.56	0.007430
1171.40	2.54	0.007397
1171.60	2.51	0.007366
1171.80	2.49	0.007336
1172.00	2.47	0.007308
1172.20	2.44	0.007280

1172.40	2.42	0.007253
1172.60	2.40	0.007227
1172.80	2.38	0.007201
1173.00	2.36	0.007177
1173.20	2.34	0.007153
1173.40	2.33	0.007129
1173.60	2.31	0.007107
1173.80	2.29	0.007084
1174.00	2.27	0.007063
1174.20	2.26	0.007042
1174.40	2.24	0.007021
1174.60	2.23	0.007001
1174.80	2.21	0.006981
1175.00	2.20	0.006961
1175.20	2.19	0.006940
1175.40	2.17	0.006919
1175.60	2.16	0.006898
1175.80	2.15	0.006876
1176.00	2.14	0.006854
1176.20	2.13	0.006832
1176.40	2.12	0.006809
1176.60	2.10	0.006787
1176.80	2.09	0.006765
1177.00	2.08	0.006743
1177.20	2.07	0.006721
1177.40	2.06	0.006699
1177.60	2.05	0.006677
1177.80	2.03	0.006656
1178.00	2.02	0.006635
1178.20	2.01	0.006614
1178.40	2.00	0.006593
1178.60	1.99	0.006573
1178.80	1.98	0.006553
1179.00	1.97	0.006533
1179.20	1.96	0.006513
1179.40	1.95	0.006494
1179.60	1.94	0.006475
1179.80	1.93	0.006456
1180.00	1.92	0.006437
1180.20	1.91	0.006419
1180.40	1.90	0.006401
1180.60	1.89	0.006383
1180.80	1.88	0.006365
1181.00	1.87	0.006348
1181.20	1.86	0.006331
1181.40	1.85	0.006314
1181.60	1.84	0.006297
1181.80	1.83	0.006281
1182.00	1.83	0.006265
1182.20	1.82	0.006248
1182.40	1.81	0.006232
1182.60	1.80	0.006215
1182.80	1.79	0.006199
1183.00	1.78	0.006183
1183.20	1.77	0.006166
1183.40	1.76	0.006150
1183.60	1.76	0.006134
1183.80	1.75	0.006118
1184.00	1.74	0.006102
1184.20	1.73	0.006087
1184.40	1.72	0.006071
1184.60	1.71	0.006056
1184.80	1.71	0.006040
1185.00	1.70	0.006025
1185.20	1.69	0.006010
1185.40	1.68	0.005996

1185.60	1.67	0.005981
1185.80	1.67	0.005967
1186.00	1.66	0.005952
1186.20	1.65	0.005938
1186.40	1.64	0.005924
1186.60	1.64	0.005911
1186.80	1.63	0.005897
1187.00	1.62	0.005883
1187.20	1.62	0.005870
1187.40	1.61	0.005857
1187.60	1.60	0.005844
1187.80	1.59	0.005831
1188.00	1.59	0.005818
1188.20	1.58	0.005806
1188.40	1.57	0.005793
1188.60	1.57	0.005781
1188.80	1.56	0.005769
1189.00	1.55	0.005757
1189.20	1.55	0.005745
1189.40	1.54	0.005733
1189.60	1.54	0.005722
1189.80	1.53	0.005710
1190.00	1.52	0.005699
1190.20	1.52	0.005688
1190.40	1.51	0.005676
1190.60	1.51	0.005665
1190.80	1.50	0.005655
1191.00	1.49	0.005644
1191.20	1.49	0.005633
1191.40	1.48	0.005623
1191.60	1.48	0.005612
1191.80	1.47	0.005602
1192.00	1.47	0.005592
1192.20	1.46	0.005581
1192.40	1.46	0.005571
1192.60	1.45	0.005562
1192.80	1.45	0.005552
1193.00	1.44	0.005542
1193.20	1.43	0.005532
1193.40	1.43	0.005523
1193.60	1.42	0.005513
1193.80	1.42	0.005504
1194.00	1.41	0.005495
1194.20	1.41	0.005486
1194.40	1.41	0.005477
1194.60	1.40	0.005468
1194.80	1.40	0.005459
1195.00	1.39	0.005450
1195.20	1.39	0.005441
1195.40	1.38	0.005432
1195.60	1.38	0.005424
1195.80	1.37	0.005415
1196.00	1.37	0.005407
1196.20	1.36	0.005399
1196.40	1.36	0.005390
1196.60	1.35	0.005382
1196.80	1.35	0.005374
1197.00	1.35	0.005366
1197.20	1.34	0.005358
1197.40	1.34	0.005350
1197.60	1.33	0.005342
1197.80	1.33	0.005334
1198.00	1.33	0.005327
1198.20	1.32	0.005319
1198.40	1.32	0.005311
1198.60	1.31	0.005304

1198.80	1.31	0.005296
1199.00	1.31	0.005289
1199.20	1.30	0.005282
1199.40	1.30	0.005274
1199.60	1.29	0.005267
1199.80	1.29	0.005260
1200.00	1.29	0.005253
1200.20	1.28	0.005246
1200.40	1.28	0.005239
1200.60	1.27	0.005232
1200.80	1.27	0.005225
1201.00	1.27	0.005218
1201.20	1.26	0.005212
1201.40	1.26	0.005205
1201.60	1.26	0.005198
1201.80	1.25	0.005192
1202.00	1.25	0.005185
1202.20	1.25	0.005179
1202.40	1.24	0.005172
1202.60	1.24	0.005166
1202.80	1.24	0.005159
1203.00	1.23	0.005153
1203.20	1.23	0.005147
1203.40	1.23	0.005141
1203.60	1.22	0.005134
1203.80	1.22	0.005128
1204.00	1.22	0.005122
1204.20	1.21	0.005116
1204.40	1.21	0.005110
1204.60	1.21	0.005104
1204.80	1.20	0.005098
1205.00	1.20	0.005093
1205.20	1.20	0.005087
1205.40	1.19	0.005081
1205.60	1.19	0.005075
1205.80	1.19	0.005070
1206.00	1.19	0.005064
1206.20	1.18	0.005058
1206.40	1.18	0.005053
1206.60	1.18	0.005047
1206.80	1.17	0.005042
1207.00	1.17	0.005036
1207.20	1.17	0.005031
1207.40	1.16	0.005026
1207.60	1.16	0.005020
1207.80	1.16	0.005015
1208.00	1.16	0.005010
1208.20	1.15	0.005004
1208.40	1.15	0.004999
1208.60	1.15	0.004994
1208.80	1.15	0.004989
1209.00	1.14	0.004984
1209.20	1.14	0.004979
1209.40	1.14	0.004974
1209.60	1.13	0.004969
1209.80	1.13	0.004964
1210.00	1.13	0.004959
1210.20	1.13	0.004954
1210.40	1.12	0.004949
1210.60	1.12	0.004944
1210.80	1.12	0.004940
1211.00	1.12	0.004935
1211.20	1.11	0.004930
1211.40	1.11	0.004925
1211.60	1.11	0.004921
1211.80	1.11	0.004916

1212.00	1.10	0.004911
1212.20	1.10	0.004907
1212.40	1.10	0.004902
1212.60	1.10	0.004897
1212.80	1.10	0.004892
1213.00	1.09	0.004887
1213.20	1.09	0.004882
1213.40	1.09	0.004877
1213.60	1.09	0.004872
1213.80	1.09	0.004867
1214.00	1.08	0.004861
1214.20	1.08	0.004856
1214.40	1.08	0.004851
1214.60	1.08	0.004845
1214.80	1.08	0.004840
1215.00	1.07	0.004834
1215.20	1.07	0.004829
1215.40	1.07	0.004823
1215.60	1.07	0.004818
1215.80	1.06	0.004812
1216.00	1.06	0.004807
1216.20	1.06	0.004801
1216.40	1.06	0.004796
1216.60	1.06	0.004791
1216.80	1.05	0.004785
1217.00	1.05	0.004780
1217.20	1.05	0.004774
1217.40	1.05	0.004769
1217.60	1.05	0.004764
1217.80	1.04	0.004758
1218.00	1.04	0.004753
1218.20	1.04	0.004748
1218.40	1.04	0.004742
1218.60	1.04	0.004737
1218.80	1.03	0.004732
1219.00	1.03	0.004727
1219.20	1.03	0.004722
1219.40	1.03	0.004716
1219.60	1.03	0.004711
1219.80	1.02	0.004706
1220.00	1.02	0.004701
1220.20	1.02	0.004696
1220.40	1.02	0.004691
1220.60	1.02	0.004686
1220.80	1.01	0.004681
1221.00	1.01	0.004676
1221.20	1.01	0.004671
1221.40	1.01	0.004666
1221.60	1.01	0.004661
1221.80	1.00	0.004656
1222.00	1.00	0.004652
1222.20	1.00	0.004647
1222.40	1.00	0.004642
1222.60	1.00	0.004637
1222.80	1.00	0.004633
1223.00	0.99	0.004628
1223.20	0.99	0.004623
1223.40	0.99	0.004618
1223.60	0.99	0.004614
1223.80	0.99	0.004609
1224.00	0.98	0.004605
1224.20	0.98	0.004600
1224.40	0.98	0.004595
1224.60	0.98	0.004591
1224.80	0.98	0.004586
1225.00	0.98	0.004582

1225.20	0.97	0.004578
1225.40	0.97	0.004573
1225.60	0.97	0.004569
1225.80	0.97	0.004564
1226.00	0.97	0.004560
1226.20	0.97	0.004556
1226.40	0.96	0.004551
1226.60	0.96	0.004547
1226.80	0.96	0.004543
1227.00	0.96	0.004538
1227.20	0.96	0.004534
1227.40	0.96	0.004530
1227.60	0.95	0.004526
1227.80	0.95	0.004522
1228.00	0.95	0.004517
1228.20	0.95	0.004513
1228.40	0.95	0.004509
1228.60	0.95	0.004505
1228.80	0.94	0.004501
1229.00	0.94	0.004497
1229.20	0.94	0.004493
1229.40	0.94	0.004489
1229.60	0.94	0.004485
1229.80	0.94	0.004481
1230.00	0.93	0.004477
1230.20	0.93	0.004473
1230.40	0.93	0.004469
1230.60	0.93	0.004465
1230.80	0.93	0.004461
1231.00	0.93	0.004457
1231.20	0.93	0.004453
1231.40	0.92	0.004450
1231.60	0.92	0.004446
1231.80	0.92	0.004442
1232.00	0.92	0.004438
1232.20	0.92	0.004434
1232.40	0.92	0.004431
1232.60	0.92	0.004427
1232.80	0.91	0.004423
1233.00	0.91	0.004419
1233.20	0.91	0.004416
1233.40	0.91	0.004412
1233.60	0.91	0.004408
1233.80	0.91	0.004405
1234.00	0.91	0.004401
1234.20	0.90	0.004397
1234.40	0.90	0.004394
1234.60	0.90	0.004390
1234.80	0.90	0.004387
1235.00	0.90	0.004383
1235.20	0.90	0.004380
1235.40	0.90	0.004376
1235.60	0.89	0.004373
1235.80	0.89	0.004369
1236.00	0.89	0.004366
1236.20	0.89	0.004362
1236.40	0.89	0.004359
1236.60	0.89	0.004355
1236.80	0.89	0.004352
1237.00	0.89	0.004349
1237.20	0.88	0.004345
1237.40	0.88	0.004342
1237.60	0.88	0.004338
1237.80	0.88	0.004334
1238.00	0.88	0.004331
1238.20	0.88	0.004327

1238.40	0.88	0.004323
1238.60	0.87	0.004320
1238.80	0.87	0.004316
1239.00	0.87	0.004312
1239.20	0.87	0.004308
1239.40	0.87	0.004304
1239.60	0.87	0.004300
1239.80	0.87	0.004296
1240.00	0.86	0.004292
1240.20	0.86	0.004288
1240.40	0.86	0.004285
1240.60	0.86	0.004281
1240.80	0.86	0.004277
1241.00	0.86	0.004273
1241.20	0.85	0.004269
1241.40	0.85	0.004265
1241.60	0.85	0.004261
1241.80	0.85	0.004257
1242.00	0.85	0.004253
1242.20	0.85	0.004249
1242.40	0.85	0.004246
1242.60	0.84	0.004242
1242.80	0.84	0.004238
1243.00	0.84	0.004234
1243.20	0.84	0.004230
1243.40	0.84	0.004227
1243.60	0.84	0.004223
1243.80	0.84	0.004219
1244.00	0.83	0.004215
1244.20	0.83	0.004211
1244.40	0.83	0.004208
1244.60	0.83	0.004204
1244.80	0.83	0.004200
1245.00	0.83	0.004197
1245.20	0.83	0.004193
1245.40	0.82	0.004189
1245.60	0.82	0.004186
1245.80	0.82	0.004182
1246.00	0.82	0.004178
1246.20	0.82	0.004175
1246.40	0.82	0.004171
1246.60	0.82	0.004168
1246.80	0.81	0.004164
1247.00	0.81	0.004160
1247.20	0.81	0.004157
1247.40	0.81	0.004153
1247.60	0.81	0.004150
1247.80	0.81	0.004146
1248.00	0.81	0.004143
1248.20	0.80	0.004139
1248.40	0.80	0.004136
1248.60	0.80	0.004133
1248.80	0.80	0.004129
1249.00	0.80	0.004126
1249.20	0.80	0.004122
1249.40	0.80	0.004119
1249.60	0.80	0.004115
1249.80	0.79	0.004112
1250.00	0.79	0.004109
1250.20	0.79	0.004105
1250.40	0.79	0.004102
1250.60	0.79	0.004099
1250.80	0.79	0.004096
1251.00	0.79	0.004092
1251.20	0.79	0.004089
1251.40	0.78	0.004086

1251.60	0.78	0.004083
1251.80	0.78	0.004079
1252.00	0.78	0.004076
1252.20	0.78	0.004073
1252.40	0.78	0.004070
1252.60	0.78	0.004067
1252.80	0.78	0.004063
1253.00	0.77	0.004060
1253.20	0.77	0.004057
1253.40	0.77	0.004054
1253.60	0.77	0.004051
1253.80	0.77	0.004048
1254.00	0.77	0.004045
1254.20	0.77	0.004042
1254.40	0.77	0.004038
1254.60	0.76	0.004035
1254.80	0.76	0.004032
1255.00	0.76	0.004029
1255.20	0.76	0.004026
1255.40	0.76	0.004023
1255.60	0.76	0.004020
1255.80	0.76	0.004017
1256.00	0.76	0.004014
1256.20	0.75	0.004011
1256.40	0.75	0.004008
1256.60	0.75	0.004005
1256.80	0.75	0.004002
1257.00	0.75	0.004000
1257.20	0.75	0.003997
1257.40	0.75	0.003994
1257.60	0.75	0.003991
1257.80	0.75	0.003988
1258.00	0.74	0.003985
1258.20	0.74	0.003982
1258.40	0.74	0.003979
1258.60	0.74	0.003977
1258.80	0.74	0.003974
1259.00	0.74	0.003971
1259.20	0.74	0.003968
1259.40	0.74	0.003965
1259.60	0.74	0.003962
1259.80	0.74	0.003960
1260.00	0.73	0.003957
1260.20	0.73	0.003954
1260.40	0.73	0.003951
1260.60	0.73	0.003949
1260.80	0.73	0.003946
1261.00	0.73	0.003943
1261.20	0.73	0.003940
1261.40	0.73	0.003938
1261.60	0.73	0.003935
1261.80	0.72	0.003932
1262.00	0.72	0.003930
1262.20	0.72	0.003927
1262.40	0.72	0.003924
1262.60	0.72	0.003922
1262.80	0.72	0.003919
1263.00	0.72	0.003917
1263.20	0.72	0.003914
1263.40	0.72	0.003911
1263.60	0.72	0.003909
1263.80	0.71	0.003906
1264.00	0.71	0.003904
1264.20	0.71	0.003901
1264.40	0.71	0.003898
1264.60	0.71	0.003896

1264.80	0.71	0.003893
1265.00	0.71	0.003891
1265.20	0.71	0.003888
1265.40	0.71	0.003886
1265.60	0.71	0.003883
1265.80	0.70	0.003881
1266.00	0.70	0.003878
1266.20	0.70	0.003876
1266.40	0.70	0.003873
1266.60	0.70	0.003871
1266.80	0.70	0.003868
1267.00	0.70	0.003866
1267.20	0.70	0.003863
1267.40	0.70	0.003861
1267.60	0.70	0.003859
1267.80	0.69	0.003856
1268.00	0.69	0.003854
1268.20	0.69	0.003851
1268.40	0.69	0.003849
1268.60	0.69	0.003847
1268.80	0.69	0.003844
1269.00	0.69	0.003842
1269.20	0.69	0.003839
1269.40	0.69	0.003837
1269.60	0.69	0.003835
1269.80	0.69	0.003832
1270.00	0.68	0.003830
1270.20	0.68	0.003828
1270.40	0.68	0.003825
1270.60	0.68	0.003823
1270.80	0.68	0.003821
1271.00	0.68	0.003818
1271.20	0.68	0.003816
1271.40	0.68	0.003814
1271.60	0.68	0.003812
1271.80	0.68	0.003809
1272.00	0.68	0.003807
1272.20	0.68	0.003805
1272.40	0.67	0.003803
1272.60	0.67	0.003800
1272.80	0.67	0.003798
1273.00	0.67	0.003796
1273.20	0.67	0.003794
1273.40	0.67	0.003791
1273.60	0.67	0.003789
1273.80	0.67	0.003787
1274.00	0.67	0.003785
1274.20	0.67	0.003783
1274.40	0.67	0.003780
1274.60	0.66	0.003778
1274.80	0.66	0.003776
1275.00	0.66	0.003774
1275.20	0.66	0.003772
1275.40	0.66	0.003770
1275.60	0.66	0.003768
1275.80	0.66	0.003766
1276.00	0.66	0.003763
1276.20	0.66	0.003761
1276.40	0.66	0.003759
1276.60	0.66	0.003757
1276.80	0.66	0.003755
1277.00	0.66	0.003753
1277.20	0.65	0.003751
1277.40	0.65	0.003749
1277.60	0.65	0.003747
1277.80	0.65	0.003745

1278.00	0.65	0.003742
1278.20	0.65	0.003740
1278.40	0.65	0.003738
1278.60	0.65	0.003736
1278.80	0.65	0.003734
1279.00	0.65	0.003732
1279.20	0.65	0.003730
1279.40	0.65	0.003728
1279.60	0.64	0.003726
1279.80	0.64	0.003724
1280.00	0.64	0.003722
1280.20	0.64	0.003720
1280.40	0.64	0.003718
1280.60	0.64	0.003716
1280.80	0.64	0.003714
1281.00	0.64	0.003712
1281.20	0.64	0.003710
1281.40	0.64	0.003708
1281.60	0.64	0.003706
1281.80	0.64	0.003704
1282.00	0.64	0.003703
1282.20	0.63	0.003701
1282.40	0.63	0.003699
1282.60	0.63	0.003697
1282.80	0.63	0.003695
1283.00	0.63	0.003693
1283.20	0.63	0.003691
1283.40	0.63	0.003689
1283.60	0.63	0.003687
1283.80	0.63	0.003685
1284.00	0.63	0.003683
1284.20	0.63	0.003682
1284.40	0.63	0.003680
1284.60	0.63	0.003678
1284.80	0.63	0.003676
1285.00	0.62	0.003674
1285.20	0.62	0.003672
1285.40	0.62	0.003670
1285.60	0.62	0.003669
1285.80	0.62	0.003667
1286.00	0.62	0.003665
1286.20	0.62	0.003663
1286.40	0.62	0.003661
1286.60	0.62	0.003659
1286.80	0.62	0.003658
1287.00	0.62	0.003656
1287.20	0.62	0.003654
1287.40	0.62	0.003652
1287.60	0.62	0.003650
1287.80	0.61	0.003649
1288.00	0.61	0.003647
1288.20	0.61	0.003645
1288.40	0.61	0.003643
1288.60	0.61	0.003642
1288.80	0.61	0.003640
1289.00	0.61	0.003638
1289.20	0.61	0.003636
1289.40	0.61	0.003635
1289.60	0.61	0.003633
1289.80	0.61	0.003631
1290.00	0.61	0.003629
1290.20	0.61	0.003628
1290.40	0.61	0.003626
1290.60	0.61	0.003624
1290.80	0.60	0.003622
1291.00	0.60	0.003621

1291.20	0.60	0.003619
1291.40	0.60	0.003617
1291.60	0.60	0.003616
1291.80	0.60	0.003614
1292.00	0.60	0.003612
1292.20	0.60	0.003611
1292.40	0.60	0.003609
1292.60	0.60	0.003607
1292.80	0.60	0.003606
1293.00	0.60	0.003604
1293.20	0.60	0.003602
1293.40	0.60	0.003601
1293.60	0.60	0.003599
1293.80	0.59	0.003597
1294.00	0.59	0.003596
1294.20	0.59	0.003594
1294.40	0.59	0.003592
1294.60	0.59	0.003591
1294.80	0.59	0.003589
1295.00	0.59	0.003588
1295.20	0.59	0.003586
1295.40	0.59	0.003584
1295.60	0.59	0.003583
1295.80	0.59	0.003581
1296.00	0.59	0.003580
1296.20	0.59	0.003578
1296.40	0.59	0.003576
1296.60	0.59	0.003575
1296.80	0.59	0.003573
1297.00	0.58	0.003572
1297.20	0.58	0.003570
1297.40	0.58	0.003568
1297.60	0.58	0.003567
1297.80	0.58	0.003565
1298.00	0.58	0.003564
1298.20	0.58	0.003562
1298.40	0.58	0.003561
1298.60	0.58	0.003559
1298.80	0.58	0.003558
1299.00	0.58	0.003556
1299.20	0.58	0.003555
1299.40	0.58	0.003553
1299.60	0.58	0.003551
1299.80	0.58	0.003550
1300.00	0.58	0.003548
1300.20	0.58	0.003547
1300.40	0.57	0.003545
1300.60	0.57	0.003544
1300.80	0.57	0.003542
1301.00	0.57	0.003541
1301.20	0.57	0.003539
1301.40	0.57	0.003538
1301.60	0.57	0.003536
1301.80	0.57	0.003535
1302.00	0.57	0.003533
1302.20	0.57	0.003532
1302.40	0.57	0.003531
1302.60	0.57	0.003529
1302.80	0.57	0.003528
1303.00	0.57	0.003526
1303.20	0.57	0.003525
1303.40	0.57	0.003523
1303.60	0.57	0.003522
1303.80	0.57	0.003520
1304.00	0.56	0.003519
1304.20	0.56	0.003517

1304.40	0.56	0.003516
1304.60	0.56	0.003515
1304.80	0.56	0.003513
1305.00	0.56	0.003512
1305.20	0.56	0.003510
1305.40	0.56	0.003509
1305.60	0.56	0.003507
1305.80	0.56	0.003506
1306.00	0.56	0.003505
1306.20	0.56	0.003503
1306.40	0.56	0.003502
1306.60	0.56	0.003500
1306.80	0.56	0.003499
1307.00	0.56	0.003498
1307.20	0.56	0.003496
1307.40	0.56	0.003495
1307.60	0.55	0.003494
1307.80	0.55	0.003492
1308.00	0.55	0.003491
1308.20	0.55	0.003489
1308.40	0.55	0.003488
1308.60	0.55	0.003487
1308.80	0.55	0.003485
1309.00	0.55	0.003484
1309.20	0.55	0.003483
1309.40	0.55	0.003481
1309.60	0.55	0.003480
1309.80	0.55	0.003479
1310.00	0.55	0.003477
1310.20	0.55	0.003476
1310.40	0.55	0.003475
1310.60	0.55	0.003473
1310.80	0.55	0.003472
1311.00	0.55	0.003470
1311.20	0.55	0.003469
1311.40	0.54	0.003468
1311.60	0.54	0.003467
1311.80	0.54	0.003465
1312.00	0.54	0.003464
1312.20	0.54	0.003463
1312.40	0.54	0.003461
1312.60	0.54	0.003460
1312.80	0.54	0.003459
1313.00	0.54	0.003457
1313.20	0.54	0.003456
1313.40	0.54	0.003455
1313.60	0.54	0.003454
1313.80	0.54	0.003452
1314.00	0.54	0.003451
1314.20	0.54	0.003450
1314.40	0.54	0.003448
1314.60	0.54	0.003447
1314.80	0.54	0.003446
1315.00	0.54	0.003445
1315.20	0.54	0.003443
1315.40	0.53	0.003442
1315.60	0.53	0.003441
1315.80	0.53	0.003440
1316.00	0.53	0.003438
1316.20	0.53	0.003437
1316.40	0.53	0.003436
1316.60	0.53	0.003435
1316.80	0.53	0.003433
1317.00	0.53	0.003432
1317.20	0.53	0.003431
1317.40	0.53	0.003430

1317.60	0.53	0.003428
1317.80	0.53	0.003427
1318.00	0.53	0.003426
1318.20	0.53	0.003425
1318.40	0.53	0.003424
1318.60	0.53	0.003422
1318.80	0.53	0.003421
1319.00	0.53	0.003420
1319.20	0.53	0.003419
1319.40	0.53	0.003417
1319.60	0.52	0.003416
1319.80	0.52	0.003415
1320.00	0.52	0.003414
1320.20	0.52	0.003413
1320.40	0.52	0.003412
1320.60	0.52	0.003410
1320.80	0.52	0.003409
1321.00	0.52	0.003408
1321.20	0.52	0.003407
1321.40	0.52	0.003406
1321.60	0.52	0.003404
1321.80	0.52	0.003403
1322.00	0.52	0.003402
1322.20	0.52	0.003401
1322.40	0.52	0.003400
1322.60	0.52	0.003399
1322.80	0.52	0.003397
1323.00	0.52	0.003396
1323.20	0.52	0.003395
1323.40	0.52	0.003394
1323.60	0.52	0.003393
1323.80	0.52	0.003392
1324.00	0.51	0.003391
1324.20	0.51	0.003389
1324.40	0.51	0.003388
1324.60	0.51	0.003387
1324.80	0.51	0.003386
1325.00	0.51	0.003385
1325.20	0.51	0.003384
1325.40	0.51	0.003383
1325.60	0.51	0.003381
1325.80	0.51	0.003380
1326.00	0.51	0.003379
1326.20	0.51	0.003378
1326.40	0.51	0.003377
1326.60	0.51	0.003376
1326.80	0.51	0.003375
1327.00	0.51	0.003374
1327.20	0.51	0.003373
1327.40	0.51	0.003371
1327.60	0.51	0.003370
1327.80	0.51	0.003369
1328.00	0.51	0.003368
1328.20	0.51	0.003367
1328.40	0.51	0.003366
1328.60	0.51	0.003365
1328.80	0.50	0.003364
1329.00	0.50	0.003363
1329.20	0.50	0.003362
1329.40	0.50	0.003361
1329.60	0.50	0.003359
1329.80	0.50	0.003358
1330.00	0.50	0.003357
1330.20	0.50	0.003356
1330.40	0.50	0.003355
1330.60	0.50	0.003354

1330.80	0.50	0.003353
1331.00	0.50	0.003352
1331.20	0.50	0.003351
1331.40	0.50	0.003350
1331.60	0.50	0.003349
1331.80	0.50	0.003348
1332.00	0.50	0.003347
1332.20	0.50	0.003346
1332.40	0.50	0.003345
1332.60	0.50	0.003343
1332.80	0.50	0.003342
1333.00	0.50	0.003341
1333.20	0.50	0.003340
1333.40	0.50	0.003339
1333.60	0.49	0.003338
1333.80	0.49	0.003337
1334.00	0.49	0.003336
1334.20	0.49	0.003335
1334.40	0.49	0.003334
1334.60	0.49	0.003333
1334.80	0.49	0.003332
1335.00	0.49	0.003331
1335.20	0.49	0.003330
1335.40	0.49	0.003329
1335.60	0.49	0.003328
1335.80	0.49	0.003327
1336.00	0.49	0.003326
1336.20	0.49	0.003325
1336.40	0.49	0.003324
1336.60	0.49	0.003323
1336.80	0.49	0.003322
1337.00	0.49	0.003321
1337.20	0.49	0.003320
1337.40	0.49	0.003319
1337.60	0.49	0.003318
1337.80	0.49	0.003317
1338.00	0.49	0.003316
1338.20	0.49	0.003315
1338.40	0.49	0.003314
1338.60	0.48	0.003313
1338.80	0.48	0.003312
1339.00	0.48	0.003311
1339.20	0.48	0.003310
1339.40	0.48	0.003309
1339.60	0.48	0.003308
1339.80	0.48	0.003307
1340.00	0.48	0.003306
1340.20	0.48	0.003305
1340.40	0.48	0.003304
1340.60	0.48	0.003303
1340.80	0.48	0.003302
1341.00	0.48	0.003301
1341.20	0.48	0.003300
1341.40	0.48	0.003300
1341.60	0.48	0.003299
1341.80	0.48	0.003298
1342.00	0.48	0.003297
1342.20	0.48	0.003296
1342.40	0.48	0.003295
1342.60	0.48	0.003294
1342.80	0.48	0.003293
1343.00	0.48	0.003292
1343.20	0.48	0.003291
1343.40	0.48	0.003290
1343.60	0.48	0.003289
1343.80	0.48	0.003288

1344.00	0.48	0.003287
1344.20	0.47	0.003286
1344.40	0.47	0.003285
1344.60	0.47	0.003284
1344.80	0.47	0.003284
1345.00	0.47	0.003283
1345.20	0.47	0.003282
1345.40	0.47	0.003281
1345.60	0.47	0.003280
1345.80	0.47	0.003279
1346.00	0.47	0.003278
1346.20	0.47	0.003277
1346.40	0.47	0.003276
1346.60	0.47	0.003275
1346.80	0.47	0.003274
1347.00	0.47	0.003273
1347.20	0.47	0.003273
1347.40	0.47	0.003272
1347.60	0.47	0.003271
1347.80	0.47	0.003270
1348.00	0.47	0.003269
1348.20	0.47	0.003268
1348.40	0.47	0.003267
1348.60	0.47	0.003266
1348.80	0.47	0.003265
1349.00	0.47	0.003264
1349.20	0.47	0.003264
1349.40	0.47	0.003263
1349.60	0.47	0.003262
1349.80	0.46	0.003261
1350.00	0.46	0.003260
1350.20	0.46	0.003259
1350.40	0.46	0.003258
1350.60	0.46	0.003257
1350.80	0.46	0.003257
1351.00	0.46	0.003256
1351.20	0.46	0.003255
1351.40	0.46	0.003254
1351.60	0.46	0.003253
1351.80	0.46	0.003252
1352.00	0.46	0.003251
1352.20	0.46	0.003250
1352.40	0.46	0.003250
1352.60	0.46	0.003249
1352.80	0.46	0.003248
1353.00	0.46	0.003247
1353.20	0.46	0.003246
1353.40	0.46	0.003245
1353.60	0.46	0.003244
1353.80	0.46	0.003244
1354.00	0.46	0.003243
1354.20	0.46	0.003242
1354.40	0.46	0.003241
1354.60	0.46	0.003240
1354.80	0.46	0.003239
1355.00	0.46	0.003239
1355.20	0.46	0.003238
1355.40	0.46	0.003237
1355.60	0.46	0.003236
1355.80	0.45	0.003235
1356.00	0.45	0.003234
1356.20	0.45	0.003234
1356.40	0.45	0.003233
1356.60	0.45	0.003232
1356.80	0.45	0.003231
1357.00	0.45	0.003230

1357.20	0.45	0.003229
1357.40	0.45	0.003229
1357.60	0.45	0.003228
1357.80	0.45	0.003227
1358.00	0.45	0.003226
1358.20	0.45	0.003225
1358.40	0.45	0.003224
1358.60	0.45	0.003224
1358.80	0.45	0.003223
1359.00	0.45	0.003222
1359.20	0.45	0.003221
1359.40	0.45	0.003220
1359.60	0.45	0.003220
1359.80	0.45	0.003219
1360.00	0.45	0.003218
1360.20	0.45	0.003217
1360.40	0.45	0.003216
1360.60	0.45	0.003216
1360.80	0.45	0.003215
1361.00	0.45	0.003214
1361.20	0.45	0.003213
1361.40	0.45	0.003212
1361.60	0.45	0.003212
1361.80	0.45	0.003211
1362.00	0.45	0.003210
1362.20	0.44	0.003209
1362.40	0.44	0.003208
1362.60	0.44	0.003208
1362.80	0.44	0.003207
1363.00	0.44	0.003206
1363.20	0.44	0.003205
1363.40	0.44	0.003205
1363.60	0.44	0.003204
1363.80	0.44	0.003203
1364.00	0.44	0.003202
1364.20	0.44	0.003201
1364.40	0.44	0.003201
1364.60	0.44	0.003200
1364.80	0.44	0.003199
1365.00	0.44	0.003198
1365.20	0.44	0.003198
1365.40	0.44	0.003197
1365.60	0.44	0.003196
1365.80	0.44	0.003195
1366.00	0.44	0.003194
1366.20	0.44	0.003194
1366.40	0.44	0.003193
1366.60	0.44	0.003192
1366.80	0.44	0.003191
1367.00	0.44	0.003191
1367.20	0.44	0.003190
1367.40	0.44	0.003189
1367.60	0.44	0.003188
1367.80	0.44	0.003188
1368.00	0.44	0.003187
1368.20	0.44	0.003186
1368.40	0.44	0.003185
1368.60	0.44	0.003185
1368.80	0.44	0.003184
1369.00	0.43	0.003183
1369.20	0.43	0.003182
1369.40	0.43	0.003182
1369.60	0.43	0.003181
1369.80	0.43	0.003180
1370.00	0.43	0.003179
1370.20	0.43	0.003179

1370.40	0.43	0.003178
1370.60	0.43	0.003177
1370.80	0.43	0.003176
1371.00	0.43	0.003176
1371.20	0.43	0.003175
1371.40	0.43	0.003174
1371.60	0.43	0.003174
1371.80	0.43	0.003173
1372.00	0.43	0.003172
1372.20	0.43	0.003171
1372.40	0.43	0.003171
1372.60	0.43	0.003170
1372.80	0.43	0.003169
1373.00	0.43	0.003168
1373.20	0.43	0.003168
1373.40	0.43	0.003167
1373.60	0.43	0.003166
1373.80	0.43	0.003166
1374.00	0.43	0.003165
1374.20	0.43	0.003164
1374.40	0.43	0.003163
1374.60	0.43	0.003163
1374.80	0.43	0.003162
1375.00	0.43	0.003161
1375.20	0.43	0.003161
1375.40	0.43	0.003160
1375.60	0.43	0.003159
1375.80	0.43	0.003159
1376.00	0.42	0.003158
1376.20	0.42	0.003157
1376.40	0.42	0.003156
1376.60	0.42	0.003156
1376.80	0.42	0.003155
1377.00	0.42	0.003154
1377.20	0.42	0.003154
1377.40	0.42	0.003153
1377.60	0.42	0.003152
1377.80	0.42	0.003152
1378.00	0.42	0.003151
1378.20	0.42	0.003150
1378.40	0.42	0.003149
1378.60	0.42	0.003149
1378.80	0.42	0.003148
1379.00	0.42	0.003147
1379.20	0.42	0.003147
1379.40	0.42	0.003146
1379.60	0.42	0.003145
1379.80	0.42	0.003145
1380.00	0.42	0.003144
1380.20	0.42	0.003143
1380.40	0.42	0.003143
1380.60	0.42	0.003142
1380.80	0.42	0.003141
1381.00	0.42	0.003141
1381.20	0.42	0.003140
1381.40	0.42	0.003139
1381.60	0.42	0.003139
1381.80	0.42	0.003138
1382.00	0.42	0.003137
1382.20	0.42	0.003137
1382.40	0.42	0.003136
1382.60	0.42	0.003135
1382.80	0.42	0.003135
1383.00	0.42	0.003134
1383.20	0.42	0.003133
1383.40	0.42	0.003133

1383.60	0.41	0.003132
1383.80	0.41	0.003131
1384.00	0.41	0.003131
1384.20	0.41	0.003130
1384.40	0.41	0.003129
1384.60	0.41	0.003129
1384.80	0.41	0.003128
1385.00	0.41	0.003127
1385.20	0.41	0.003127
1385.40	0.41	0.003126
1385.60	0.41	0.003125
1385.80	0.41	0.003125
1386.00	0.41	0.003124
1386.20	0.41	0.003123
1386.40	0.41	0.003123
1386.60	0.41	0.003122
1386.80	0.41	0.003121
1387.00	0.41	0.003121
1387.20	0.41	0.003120
1387.40	0.41	0.003120
1387.60	0.41	0.003119
1387.80	0.41	0.003118
1388.00	0.41	0.003118
1388.20	0.41	0.003117
1388.40	0.41	0.003116
1388.60	0.41	0.003116
1388.80	0.41	0.003115
1389.00	0.41	0.003114
1389.20	0.41	0.003114
1389.40	0.41	0.003113
1389.60	0.41	0.003113
1389.80	0.41	0.003112
1390.00	0.41	0.003111
1390.20	0.41	0.003111
1390.40	0.41	0.003110
1390.60	0.41	0.003109
1390.80	0.41	0.003109
1391.00	0.41	0.003108
1391.20	0.41	0.003108
1391.40	0.41	0.003107
1391.60	0.41	0.003106
1391.80	0.40	0.003106
1392.00	0.40	0.003105
1392.20	0.40	0.003104
1392.40	0.40	0.003104
1392.60	0.40	0.003103
1392.80	0.40	0.003103
1393.00	0.40	0.003102
1393.20	0.40	0.003101
1393.40	0.40	0.003101
1393.60	0.40	0.003100
1393.80	0.40	0.003100
1394.00	0.40	0.003099
1394.20	0.40	0.003098
1394.40	0.40	0.003098
1394.60	0.40	0.003097
1394.80	0.40	0.003096
1395.00	0.40	0.003096
1395.20	0.40	0.003095
1395.40	0.40	0.003095
1395.60	0.40	0.003094
1395.80	0.40	0.003093
1396.00	0.40	0.003093
1396.20	0.40	0.003092
1396.40	0.40	0.003092
1396.60	0.40	0.003091

1396.80	0.40	0.003090
1397.00	0.40	0.003090
1397.20	0.40	0.003089
1397.40	0.40	0.003089
1397.60	0.40	0.003088
1397.80	0.40	0.003087
1398.00	0.40	0.003087
1398.20	0.40	0.003086
1398.40	0.40	0.003086
1398.60	0.40	0.003085
1398.80	0.40	0.003085
1399.00	0.40	0.003084
1399.20	0.40	0.003083
1399.40	0.40	0.003083
1399.60	0.40	0.003082
1399.80	0.40	0.003082
1400.00	0.40	0.003081
1400.20	0.40	0.003080
1400.40	0.39	0.003080
1400.60	0.39	0.003079
1400.80	0.39	0.003079
1401.00	0.39	0.003078
1401.20	0.39	0.003077
1401.40	0.39	0.003077
1401.60	0.39	0.003076
1401.80	0.39	0.003076
1402.00	0.39	0.003075
1402.20	0.39	0.003075
1402.40	0.39	0.003074
1402.60	0.39	0.003073
1402.80	0.39	0.003073
1403.00	0.39	0.003072
1403.20	0.39	0.003072
1403.40	0.39	0.003071
1403.60	0.39	0.003071
1403.80	0.39	0.003070
1404.00	0.39	0.003069
1404.20	0.39	0.003069
1404.40	0.39	0.003068
1404.60	0.39	0.003068
1404.80	0.39	0.003067
1405.00	0.39	0.003067
1405.20	0.39	0.003066
1405.40	0.39	0.003066
1405.60	0.39	0.003065
1405.80	0.39	0.003064
1406.00	0.39	0.003064
1406.20	0.39	0.003063
1406.40	0.39	0.003063
1406.60	0.39	0.003062
1406.80	0.39	0.003062
1407.00	0.39	0.003061
1407.20	0.39	0.003061
1407.40	0.39	0.003060
1407.60	0.39	0.003059
1407.80	0.39	0.003059
1408.00	0.39	0.003058
1408.20	0.39	0.003058
1408.40	0.39	0.003057
1408.60	0.39	0.003057
1408.80	0.39	0.003056
1409.00	0.39	0.003056
1409.20	0.39	0.003055
1409.40	0.39	0.003054
1409.60	0.38	0.003054
1409.80	0.38	0.003053

1410.00	0.38	0.003053
1410.20	0.38	0.003052
1410.40	0.38	0.003052
1410.60	0.38	0.003051
1410.80	0.38	0.003051
1411.00	0.38	0.003050
1411.20	0.38	0.003050
1411.40	0.38	0.003049
1411.60	0.38	0.003049
1411.80	0.38	0.003048
1412.00	0.38	0.003047
1412.20	0.38	0.003047
1412.40	0.38	0.003046
1412.60	0.38	0.003046
1412.80	0.38	0.003045
1413.00	0.38	0.003045
1413.20	0.38	0.003044
1413.40	0.38	0.003044
1413.60	0.38	0.003043
1413.80	0.38	0.003043
1414.00	0.38	0.003042
1414.20	0.38	0.003042
1414.40	0.38	0.003041
1414.60	0.38	0.003041
1414.80	0.38	0.003040
1415.00	0.38	0.003040
1415.20	0.38	0.003039
1415.40	0.38	0.003039
1415.60	0.38	0.003038
1415.80	0.38	0.003038
1416.00	0.38	0.003037
1416.20	0.38	0.003036
1416.40	0.38	0.003036
1416.60	0.38	0.003035
1416.80	0.38	0.003035
1417.00	0.38	0.003034
1417.20	0.38	0.003034
1417.40	0.38	0.003033
1417.60	0.38	0.003033
1417.80	0.38	0.003032
1418.00	0.38	0.003032
1418.20	0.38	0.003031
1418.40	0.38	0.003031
1418.60	0.38	0.003030
1418.80	0.38	0.003030
1419.00	0.38	0.003029
1419.20	0.38	0.003029
1419.40	0.37	0.003028
1419.60	0.37	0.003028
1419.80	0.37	0.003027
1420.00	0.37	0.003027
1420.20	0.37	0.003026
1420.40	0.37	0.003026
1420.60	0.37	0.003025
1420.80	0.37	0.003025
1421.00	0.37	0.003024
1421.20	0.37	0.003024
1421.40	0.37	0.003023
1421.60	0.37	0.003023
1421.80	0.37	0.003022
1422.00	0.37	0.003022
1422.20	0.37	0.003021
1422.40	0.37	0.003021
1422.60	0.37	0.003020
1422.80	0.37	0.003020
1423.00	0.37	0.003019

1423.20	0.37	0.003019
1423.40	0.37	0.003018
1423.60	0.37	0.003018
1423.80	0.37	0.003017
1424.00	0.37	0.003017
1424.20	0.37	0.003016
1424.40	0.37	0.003016
1424.60	0.37	0.003015
1424.80	0.37	0.003015
1425.00	0.37	0.003014
1425.20	0.37	0.003014
1425.40	0.37	0.003013
1425.60	0.37	0.003013
1425.80	0.37	0.003012
1426.00	0.37	0.003012
1426.20	0.37	0.003011
1426.40	0.37	0.003011
1426.60	0.37	0.003010
1426.80	0.37	0.003010
1427.00	0.37	0.003009
1427.20	0.37	0.003009
1427.40	0.37	0.003008
1427.60	0.37	0.003008
1427.80	0.37	0.003007
1428.00	0.37	0.003007
1428.20	0.37	0.003006
1428.40	0.37	0.003006
1428.60	0.37	0.003005
1428.80	0.37	0.003005
1429.00	0.37	0.003004
1429.20	0.37	0.003004
1429.40	0.37	0.003004
1429.60	0.37	0.003003
1429.80	0.36	0.003003
1430.00	0.36	0.003002
1430.20	0.36	0.003002
1430.40	0.36	0.003001
1430.60	0.36	0.003001
1430.80	0.36	0.003000
1431.00	0.36	0.003000
1431.20	0.36	0.002999
1431.40	0.36	0.002999
1431.60	0.36	0.002998
1431.80	0.36	0.002998
1432.00	0.36	0.002997
1432.20	0.36	0.002997
1432.40	0.36	0.002996
1432.60	0.36	0.002996
1432.80	0.36	0.002996
1433.00	0.36	0.002995
1433.20	0.36	0.002995
1433.40	0.36	0.002994
1433.60	0.36	0.002994
1433.80	0.36	0.002993
1434.00	0.36	0.002993
1434.20	0.36	0.002992
1434.40	0.36	0.002992
1434.60	0.36	0.002991
1434.80	0.36	0.002991
1435.00	0.36	0.002990
1435.20	0.36	0.002990
1435.40	0.36	0.002989
1435.60	0.36	0.002989
1435.80	0.36	0.002989
1436.00	0.36	0.002988
1436.20	0.36	0.002988

1436.40	0.36	0.002987
1436.60	0.36	0.002987
1436.80	0.36	0.002986
1437.00	0.36	0.002986
1437.20	0.36	0.002985
1437.40	0.36	0.002985
1437.60	0.36	0.002984
1437.80	0.36	0.002984
1438.00	0.36	0.002984
1438.20	0.36	0.002983
1438.40	0.36	0.002983
1438.60	0.36	0.002982
1438.80	0.36	0.002982
1439.00	0.36	0.002981
1439.20	0.36	0.002981
1439.40	0.36	0.002980
1439.60	0.36	0.002980
1439.80	0.36	0.002980
1440.00	0.36	0.002979
1440.20	0.36	0.002976
1440.40	0.35	0.002971
1440.60	0.35	0.002963
1440.80	0.35	0.002955
1441.00	0.34	0.002946
1441.20	0.34	0.002935
1441.40	0.34	0.002924
1441.60	0.33	0.002913
1441.80	0.33	0.002900
1442.00	0.32	0.002887
1442.20	0.32	0.002874
1442.40	0.31	0.002860
1442.60	0.31	0.002846
1442.80	0.30	0.002831
1443.00	0.30	0.002815
1443.20	0.30	0.002798
1443.40	0.29	0.002780
1443.60	0.29	0.002761
1443.80	0.29	0.002740
1444.00	0.28	0.002719
1444.20	0.28	0.002696
1444.40	0.28	0.002673
1444.60	0.27	0.002648
1444.80	0.27	0.002623
1445.00	0.27	0.002596
1445.20	0.26	0.002569
1445.40	0.26	0.002541
1445.60	0.26	0.002513
1445.80	0.25	0.002483
1446.00	0.25	0.002453
1446.20	0.24	0.002422
1446.40	0.24	0.002391
1446.60	0.23	0.002359
1446.80	0.23	0.002326
1447.00	0.22	0.002293
1447.20	0.22	0.002259
1447.40	0.21	0.002224
1447.60	0.21	0.002190
1447.80	0.20	0.002154
1448.00	0.20	0.002118
1448.20	0.19	0.002082
1448.40	0.19	0.002045
1448.60	0.18	0.002008
1448.80	0.18	0.001970
1449.00	0.17	0.001932
1449.20	0.17	0.001894
1449.40	0.16	0.001855

1449.60	0.16	0.001816
1449.80	0.15	0.001777
1450.00	0.14	0.001737
1450.20	0.14	0.001699
1450.40	0.13	0.001663
1450.60	0.13	0.001627
1450.80	0.12	0.001594
1451.00	0.12	0.001561
1451.20	0.11	0.001530
1451.40	0.11	0.001500
1451.60	0.10	0.001471
1451.80	0.10	0.001443
1452.00	0.10	0.001417
1452.20	0.09	0.001391
1452.40	0.09	0.001367
1452.60	0.09	0.001343
1452.80	0.08	0.001320
1453.00	0.08	0.001298
1453.20	0.08	0.001277
1453.40	0.07	0.001257
1453.60	0.07	0.001238
1453.80	0.07	0.001219
1454.00	0.06	0.001202
1454.20	0.06	0.001184
1454.40	0.06	0.001168
1454.60	0.06	0.001152
1454.80	0.06	0.001137
1455.00	0.05	0.001122
1455.20	0.05	0.001108
1455.40	0.05	0.001095
1455.60	0.05	0.001082
1455.80	0.05	0.001069
1456.00	0.04	0.001057
1456.20	0.04	0.001046
1456.40	0.04	0.001035
1456.60	0.04	0.001024
1456.80	0.04	0.001014
1457.00	0.04	0.001004
1457.20	0.03	0.000994
1457.40	0.03	0.000985
1457.60	0.03	0.000977
1457.80	0.03	0.000968
1458.00	0.03	0.000960
1458.20	0.03	0.000953
1458.40	0.03	0.000945
1458.60	0.03	0.000938
1458.80	0.02	0.000931
1459.00	0.02	0.000925
1459.20	0.02	0.000918
1459.40	0.02	0.000912
1459.60	0.02	0.000906
1459.80	0.02	0.000901
1460.00	0.02	0.000895
1460.20	0.02	0.000890
1460.40	0.02	0.000885
1460.60	0.02	0.000880
1460.80	0.02	0.000876
1461.00	0.02	0.000871
1461.20	0.02	0.000867
1461.40	0.01	0.000863
1461.60	0.01	0.000859
1461.80	0.01	0.000855
1462.00	0.01	0.000852
1462.20	0.01	0.000848
1462.40	0.01	0.000845
1462.60	0.01	0.000842

1462.80	0.01	0.000839
1463.00	0.01	0.000836
1463.20	0.01	0.000833
1463.40	0.01	0.000830
1463.60	0.01	0.000827
1463.80	0.01	0.000825
1464.00	0.01	0.000822
1464.20	0.01	0.000820
1464.40	0.01	0.000818
1464.60	0.01	0.000816
1464.80	0.01	0.000814
1465.00	0.01	0.000812
1465.20	0.01	0.000810

LOT 5

Hydraulic Analysis Report

Project Data

Project Title:
Designer:
Project Date: Wednesday, February 17, 2021
Project Units: U.S. Customary Units
Notes:

Detention Basin Analysis: Detention Basin Analysis

Notes:

Storage Input Parameters

Storage Capacity: Known geometry
Length: 46.0000 ft
Width: 45.0000 ft
Depth: 5.0000 ft
Side slope: 0.0000 ft/ft
Base elevation: 0.0000 ft

10,350 cubic feet

Discharge Input Parameters

Known Discharge: Known Discharge 1

Elevation ft	Discharge cfs
0.00	0.00
0.25	0.40
0.50	1.50
0.75	3.20
1.00	5.40
1.25	9.60
1.50	13.50
1.75	16.50
2.00	19.10
2.25	21.40
2.50	23.40
2.75	25.30
3.00	27.00
3.25	28.70
3.50	30.20
3.75	31.70
4.00	33.10
4.25	34.40
4.50	35.70
4.75	37.00
5.00	38.20

Storage & Discharge Input Parameters

Elevation - Storage - Discharge

Elevation ft	Storage acre-ft	Discharge cfs
0.00	0.00	0.00
0.25	0.01	0.40
0.50	0.02	1.50
0.75	0.04	3.20
1.00	0.05	5.40
1.25	0.06	9.60
1.50	0.07	13.50
1.75	0.08	16.50
2.00	0.10	19.10
2.25	0.11	21.40
2.50	0.12	23.40
2.75	0.13	25.30
3.00	0.14	27.00
3.25	0.15	28.70
3.50	0.17	30.20
3.75	0.18	31.70
4.00	0.19	33.10
4.25	0.20	34.40
4.50	0.21	35.70
4.75	0.23	37.00
5.00	0.24	38.20

Detention Basin Input Parameters

Inflow Hydrograph

Peak Inflow Discharge: 46.206 cfs, Time to Peak: 1154.00 (min), Total Inflow Volume: 23

Time (min)	Discharge cfs
0.00	0.00
0.20	0.02
0.40	0.03
0.60	0.05
0.80	0.07
1.00	0.09
1.20	0.10
1.40	0.12
1.60	0.14
1.80	0.16
2.00	0.17
2.20	0.19
2.40	0.21
2.60	0.23
2.80	0.24
3.00	0.26
3.20	0.28
3.40	0.30
3.60	0.31
3.80	0.33
4.00	0.35
4.20	0.37
4.40	0.38
4.60	0.40
4.80	0.42
5.00	0.44
5.20	0.45
5.40	0.47
5.60	0.49
5.80	0.51
6.00	0.52
6.20	0.54
6.40	0.56
6.60	0.57
6.80	0.59
7.00	0.61
7.20	0.63
7.40	0.64
7.60	0.66
7.80	0.68
8.00	0.70
8.20	0.71
8.40	0.73
8.60	0.75
8.80	0.77
9.00	0.78
9.20	0.80
9.40	0.82
9.60	0.84
9.80	0.85
10.00	0.87
10.20	0.87
10.40	0.87

10.60	0.87
10.80	0.87
11.00	0.87
11.20	0.87
11.40	0.87
11.60	0.87
11.80	0.87
12.00	0.87
12.20	0.87
12.40	0.87
12.60	0.87
12.80	0.87
13.00	0.87
13.20	0.87
13.40	0.87
13.60	0.87
13.80	0.87
14.00	0.87
14.20	0.87
14.40	0.87
14.60	0.87
14.80	0.87
15.00	0.87
15.20	0.87
15.40	0.87
15.60	0.87
15.80	0.87
16.00	0.87
16.20	0.87
16.40	0.87
16.60	0.87
16.80	0.88
17.00	0.88
17.20	0.88
17.40	0.88
17.60	0.88
17.80	0.88
18.00	0.88
18.20	0.88
18.40	0.88
18.60	0.88
18.80	0.88
19.00	0.88
19.20	0.88
19.40	0.88
19.60	0.88
19.80	0.88
20.00	0.88
20.20	0.88
20.40	0.88
20.60	0.88
20.80	0.88
21.00	0.88
21.20	0.88
21.40	0.88
21.60	0.88
21.80	0.88
22.00	0.88
22.20	0.88
22.40	0.88
22.60	0.88
22.80	0.88
23.00	0.88
23.20	0.88
23.40	0.88
23.60	0.88

23.80	0.88
24.00	0.88
24.20	0.88
24.40	0.88
24.60	0.88
24.80	0.88
25.00	0.88
25.20	0.88
25.40	0.88
25.60	0.88
25.80	0.88
26.00	0.88
26.20	0.88
26.40	0.88
26.60	0.88
26.80	0.88
27.00	0.88
27.20	0.88
27.40	0.88
27.60	0.88
27.80	0.88
28.00	0.88
28.20	0.88
28.40	0.88
28.60	0.88
28.80	0.88
29.00	0.88
29.20	0.88
29.40	0.88
29.60	0.88
29.80	0.88
30.00	0.88
30.20	0.88
30.40	0.88
30.60	0.88
30.80	0.88
31.00	0.88
31.20	0.88
31.40	0.88
31.60	0.88
31.80	0.88
32.00	0.88
32.20	0.88
32.40	0.88
32.60	0.88
32.80	0.89
33.00	0.89
33.20	0.89
33.40	0.89
33.60	0.89
33.80	0.89
34.00	0.89
34.20	0.89
34.40	0.89
34.60	0.89
34.80	0.89
35.00	0.89
35.20	0.89
35.40	0.89
35.60	0.89
35.80	0.89
36.00	0.89
36.20	0.89
36.40	0.89
36.60	0.89
36.80	0.89

37.00	0.89
37.20	0.89
37.40	0.89
37.60	0.89
37.80	0.89
38.00	0.89
38.20	0.89
38.40	0.89
38.60	0.89
38.80	0.89
39.00	0.89
39.20	0.89
39.40	0.89
39.60	0.89
39.80	0.89
40.00	0.89
40.20	0.89
40.40	0.89
40.60	0.89
40.80	0.89
41.00	0.89
41.20	0.89
41.40	0.89
41.60	0.89
41.80	0.89
42.00	0.89
42.20	0.89
42.40	0.89
42.60	0.89
42.80	0.89
43.00	0.89
43.20	0.89
43.40	0.89
43.60	0.89
43.80	0.89
44.00	0.89
44.20	0.89
44.40	0.89
44.60	0.89
44.80	0.89
45.00	0.89
45.20	0.89
45.40	0.89
45.60	0.89
45.80	0.89
46.00	0.89
46.20	0.89
46.40	0.89
46.60	0.89
46.80	0.89
47.00	0.89
47.20	0.89
47.40	0.89
47.60	0.89
47.80	0.89
48.00	0.89
48.20	0.89
48.40	0.90
48.60	0.90
48.80	0.90
49.00	0.90
49.20	0.90
49.40	0.90
49.60	0.90
49.80	0.90
50.00	0.90

50.20	0.90
50.40	0.90
50.60	0.90
50.80	0.90
51.00	0.90
51.20	0.90
51.40	0.90
51.60	0.90
51.80	0.90
52.00	0.90
52.20	0.90
52.40	0.90
52.60	0.90
52.80	0.90
53.00	0.90
53.20	0.90
53.40	0.90
53.60	0.90
53.80	0.90
54.00	0.90
54.20	0.90
54.40	0.90
54.60	0.90
54.80	0.90
55.00	0.90
55.20	0.90
55.40	0.90
55.60	0.90
55.80	0.90
56.00	0.90
56.20	0.90
56.40	0.90
56.60	0.90
56.80	0.90
57.00	0.90
57.20	0.90
57.40	0.90
57.60	0.90
57.80	0.90
58.00	0.90
58.20	0.90
58.40	0.90
58.60	0.90
58.80	0.90
59.00	0.90
59.20	0.90
59.40	0.90
59.60	0.90
59.80	0.90
60.00	0.90
60.20	0.90
60.40	0.90
60.60	0.90
60.80	0.90
61.00	0.90
61.20	0.90
61.40	0.90
61.60	0.90
61.80	0.90
62.00	0.90
62.20	0.90
62.40	0.90
62.60	0.90
62.80	0.90
63.00	0.90
63.20	0.90

63.40	0.90
63.60	0.91
63.80	0.91
64.00	0.91
64.20	0.91
64.40	0.91
64.60	0.91
64.80	0.91
65.00	0.91
65.20	0.91
65.40	0.91
65.60	0.91
65.80	0.91
66.00	0.91
66.20	0.91
66.40	0.91
66.60	0.91
66.80	0.91
67.00	0.91
67.20	0.91
67.40	0.91
67.60	0.91
67.80	0.91
68.00	0.91
68.20	0.91
68.40	0.91
68.60	0.91
68.80	0.91
69.00	0.91
69.20	0.91
69.40	0.91
69.60	0.91
69.80	0.91
70.00	0.91
70.20	0.91
70.40	0.91
70.60	0.91
70.80	0.91
71.00	0.91
71.20	0.91
71.40	0.91
71.60	0.91
71.80	0.91
72.00	0.91
72.20	0.91
72.40	0.91
72.60	0.91
72.80	0.91
73.00	0.91
73.20	0.91
73.40	0.91
73.60	0.91
73.80	0.91
74.00	0.91
74.20	0.91
74.40	0.91
74.60	0.91
74.80	0.91
75.00	0.91
75.20	0.91
75.40	0.91
75.60	0.91
75.80	0.91
76.00	0.91
76.20	0.91
76.40	0.91

76.60	0.91
76.80	0.91
77.00	0.91
77.20	0.91
77.40	0.91
77.60	0.91
77.80	0.91
78.00	0.91
78.20	0.91
78.40	0.92
78.60	0.92
78.80	0.92
79.00	0.92
79.20	0.92
79.40	0.92
79.60	0.92
79.80	0.92
80.00	0.92
80.20	0.92
80.40	0.92
80.60	0.92
80.80	0.92
81.00	0.92
81.20	0.92
81.40	0.92
81.60	0.92
81.80	0.92
82.00	0.92
82.20	0.92
82.40	0.92
82.60	0.92
82.80	0.92
83.00	0.92
83.20	0.92
83.40	0.92
83.60	0.92
83.80	0.92
84.00	0.92
84.20	0.92
84.40	0.92
84.60	0.92
84.80	0.92
85.00	0.92
85.20	0.92
85.40	0.92
85.60	0.92
85.80	0.92
86.00	0.92
86.20	0.92
86.40	0.92
86.60	0.92
86.80	0.92
87.00	0.92
87.20	0.92
87.40	0.92
87.60	0.92
87.80	0.92
88.00	0.92
88.20	0.92
88.40	0.92
88.60	0.92
88.80	0.92
89.00	0.92
89.20	0.92
89.40	0.92
89.60	0.92

89.80	0.92
90.00	0.92
90.20	0.92
90.40	0.92
90.60	0.92
90.80	0.92
91.00	0.92
91.20	0.92
91.40	0.92
91.60	0.92
91.80	0.92
92.00	0.92
92.20	0.92
92.40	0.92
92.60	0.92
92.80	0.93
93.00	0.93
93.20	0.93
93.40	0.93
93.60	0.93
93.80	0.93
94.00	0.93
94.20	0.93
94.40	0.93
94.60	0.93
94.80	0.93
95.00	0.93
95.20	0.93
95.40	0.93
95.60	0.93
95.80	0.93
96.00	0.93
96.20	0.93
96.40	0.93
96.60	0.93
96.80	0.93
97.00	0.93
97.20	0.93
97.40	0.93
97.60	0.93
97.80	0.93
98.00	0.93
98.20	0.93
98.40	0.93
98.60	0.93
98.80	0.93
99.00	0.93
99.20	0.93
99.40	0.93
99.60	0.93
99.80	0.93
100.00	0.93
100.20	0.93
100.40	0.93
100.60	0.93
100.80	0.93
101.00	0.93
101.20	0.93
101.40	0.93
101.60	0.93
101.80	0.93
102.00	0.93
102.20	0.93
102.40	0.93
102.60	0.93
102.80	0.93

103.00	0.93
103.20	0.93
103.40	0.93
103.60	0.93
103.80	0.93
104.00	0.93
104.20	0.93
104.40	0.93
104.60	0.93
104.80	0.93
105.00	0.93
105.20	0.93
105.40	0.93
105.60	0.93
105.80	0.93
106.00	0.93
106.20	0.93
106.40	0.93
106.60	0.93
106.80	0.93
107.00	0.94
107.20	0.94
107.40	0.94
107.60	0.94
107.80	0.94
108.00	0.94
108.20	0.94
108.40	0.94
108.60	0.94
108.80	0.94
109.00	0.94
109.20	0.94
109.40	0.94
109.60	0.94
109.80	0.94
110.00	0.94
110.20	0.94
110.40	0.94
110.60	0.94
110.80	0.94
111.00	0.94
111.20	0.94
111.40	0.94
111.60	0.94
111.80	0.94
112.00	0.94
112.20	0.94
112.40	0.94
112.60	0.94
112.80	0.94
113.00	0.94
113.20	0.94
113.40	0.94
113.60	0.94
113.80	0.94
114.00	0.94
114.20	0.94
114.40	0.94
114.60	0.94
114.80	0.94
115.00	0.94
115.20	0.94
115.40	0.94
115.60	0.94
115.80	0.94
116.00	0.94

116.20	0.94
116.40	0.94
116.60	0.94
116.80	0.94
117.00	0.94
117.20	0.94
117.40	0.94
117.60	0.94
117.80	0.94
118.00	0.94
118.20	0.94
118.40	0.94
118.60	0.94
118.80	0.94
119.00	0.94
119.20	0.94
119.40	0.94
119.60	0.94
119.80	0.94
120.00	0.94
120.20	0.94
120.40	0.94
120.60	0.94
120.80	0.95
121.00	0.95
121.20	0.95
121.40	0.95
121.60	0.95
121.80	0.95
122.00	0.95
122.20	0.95
122.40	0.95
122.60	0.95
122.80	0.95
123.00	0.95
123.20	0.95
123.40	0.95
123.60	0.95
123.80	0.95
124.00	0.95
124.20	0.95
124.40	0.95
124.60	0.95
124.80	0.95
125.00	0.95
125.20	0.95
125.40	0.95
125.60	0.95
125.80	0.95
126.00	0.95
126.20	0.95
126.40	0.95
126.60	0.95
126.80	0.95
127.00	0.95
127.20	0.95
127.40	0.95
127.60	0.95
127.80	0.95
128.00	0.95
128.20	0.95
128.40	0.95
128.60	0.95
128.80	0.95
129.00	0.95
129.20	0.95

129.40	0.95
129.60	0.95
129.80	0.95
130.00	0.95
130.20	0.95
130.40	0.95
130.60	0.95
130.80	0.95
131.00	0.95
131.20	0.95
131.40	0.95
131.60	0.95
131.80	0.95
132.00	0.95
132.20	0.95
132.40	0.95
132.60	0.95
132.80	0.95
133.00	0.95
133.20	0.95
133.40	0.95
133.60	0.95
133.80	0.95
134.00	0.95
134.20	0.96
134.40	0.96
134.60	0.96
134.80	0.96
135.00	0.96
135.20	0.96
135.40	0.96
135.60	0.96
135.80	0.96
136.00	0.96
136.20	0.96
136.40	0.96
136.60	0.96
136.80	0.96
137.00	0.96
137.20	0.96
137.40	0.96
137.60	0.96
137.80	0.96
138.00	0.96
138.20	0.96
138.40	0.96
138.60	0.96
138.80	0.96
139.00	0.96
139.20	0.96
139.40	0.96
139.60	0.96
139.80	0.96
140.00	0.96
140.20	0.96
140.40	0.96
140.60	0.96
140.80	0.96
141.00	0.96
141.20	0.96
141.40	0.96
141.60	0.96
141.80	0.96
142.00	0.96
142.20	0.96
142.40	0.96

142.60	0.96
142.80	0.96
143.00	0.96
143.20	0.96
143.40	0.96
143.60	0.96
143.80	0.96
144.00	0.96
144.20	0.96
144.40	0.96
144.60	0.96
144.80	0.96
145.00	0.96
145.20	0.96
145.40	0.96
145.60	0.96
145.80	0.96
146.00	0.96
146.20	0.96
146.40	0.96
146.60	0.96
146.80	0.96
147.00	0.96
147.20	0.96
147.40	0.97
147.60	0.97
147.80	0.97
148.00	0.97
148.20	0.97
148.40	0.97
148.60	0.97
148.80	0.97
149.00	0.97
149.20	0.97
149.40	0.97
149.60	0.97
149.80	0.97
150.00	0.97
150.20	0.97
150.40	0.97
150.60	0.97
150.80	0.97
151.00	0.97
151.20	0.97
151.40	0.97
151.60	0.97
151.80	0.97
152.00	0.97
152.20	0.97
152.40	0.97
152.60	0.97
152.80	0.97
153.00	0.97
153.20	0.97
153.40	0.97
153.60	0.97
153.80	0.97
154.00	0.97
154.20	0.97
154.40	0.97
154.60	0.97
154.80	0.97
155.00	0.97
155.20	0.97
155.40	0.97
155.60	0.97

155.80	0.97
156.00	0.97
156.20	0.97
156.40	0.97
156.60	0.97
156.80	0.97
157.00	0.97
157.20	0.97
157.40	0.97
157.60	0.97
157.80	0.97
158.00	0.97
158.20	0.97
158.40	0.97
158.60	0.97
158.80	0.97
159.00	0.97
159.20	0.97
159.40	0.97
159.60	0.97
159.80	0.97
160.00	0.98
160.20	0.98
160.40	0.98
160.60	0.98
160.80	0.98
161.00	0.98
161.20	0.98
161.40	0.98
161.60	0.98
161.80	0.98
162.00	0.98
162.20	0.98
162.40	0.98
162.60	0.98
162.80	0.98
163.00	0.98
163.20	0.98
163.40	0.98
163.60	0.98
163.80	0.98
164.00	0.98
164.20	0.98
164.40	0.98
164.60	0.98
164.80	0.98
165.00	0.98
165.20	0.98
165.40	0.98
165.60	0.98
165.80	0.98
166.00	0.98
166.20	0.98
166.40	0.98
166.60	0.98
166.80	0.98
167.00	0.98
167.20	0.98
167.40	0.98
167.60	0.98
167.80	0.98
168.00	0.98
168.20	0.98
168.40	0.98
168.60	0.98
168.80	0.98

169.00	0.98
169.20	0.98
169.40	0.98
169.60	0.98
169.80	0.98
170.00	0.98
170.20	0.98
170.40	0.98
170.60	0.98
170.80	0.98
171.00	0.98
171.20	0.98
171.40	0.98
171.60	0.98
171.80	0.98
172.00	0.98
172.20	0.98
172.40	0.98
172.60	0.99
172.80	0.99
173.00	0.99
173.20	0.99
173.40	0.99
173.60	0.99
173.80	0.99
174.00	0.99
174.20	0.99
174.40	0.99
174.60	0.99
174.80	0.99
175.00	0.99
175.20	0.99
175.40	0.99
175.60	0.99
175.80	0.99
176.00	0.99
176.20	0.99
176.40	0.99
176.60	0.99
176.80	0.99
177.00	0.99
177.20	0.99
177.40	0.99
177.60	0.99
177.80	0.99
178.00	0.99
178.20	0.99
178.40	0.99
178.60	0.99
178.80	0.99
179.00	0.99
179.20	0.99
179.40	0.99
179.60	0.99
179.80	0.99
180.00	0.99
180.20	0.99
180.40	0.99
180.60	0.99
180.80	0.99
181.00	0.99
181.20	0.99
181.40	0.99
181.60	0.99
181.80	0.99
182.00	0.99

182.20	0.99
182.40	0.99
182.60	0.99
182.80	0.99
183.00	0.99
183.20	0.99
183.40	0.99
183.60	0.99
183.80	0.99
184.00	0.99
184.20	0.99
184.40	0.99
184.60	1.00
184.80	1.00
185.00	1.00
185.20	1.00
185.40	1.00
185.60	1.00
185.80	1.00
186.00	1.00
186.20	1.00
186.40	1.00
186.60	1.00
186.80	1.00
187.00	1.00
187.20	1.00
187.40	1.00
187.60	1.00
187.80	1.00
188.00	1.00
188.20	1.00
188.40	1.00
188.60	1.00
188.80	1.00
189.00	1.00
189.20	1.00
189.40	1.00
189.60	1.00
189.80	1.00
190.00	1.00
190.20	1.00
190.40	1.00
190.60	1.00
190.80	1.00
191.00	1.00
191.20	1.00
191.40	1.00
191.60	1.00
191.80	1.00
192.00	1.00
192.20	1.00
192.40	1.00
192.60	1.00
192.80	1.00
193.00	1.00
193.20	1.00
193.40	1.00
193.60	1.00
193.80	1.00
194.00	1.00
194.20	1.00
194.40	1.00
194.60	1.00
194.80	1.00
195.00	1.00
195.20	1.00

195.40	1.00
195.60	1.00
195.80	1.00
196.00	1.00
196.20	1.00
196.40	1.00
196.60	1.01
196.80	1.01
197.00	1.01
197.20	1.01
197.40	1.01
197.60	1.01
197.80	1.01
198.00	1.01
198.20	1.01
198.40	1.01
198.60	1.01
198.80	1.01
199.00	1.01
199.20	1.01
199.40	1.01
199.60	1.01
199.80	1.01
200.00	1.01
200.20	1.01
200.40	1.01
200.60	1.01
200.80	1.01
201.00	1.01
201.20	1.01
201.40	1.01
201.60	1.01
201.80	1.01
202.00	1.01
202.20	1.01
202.40	1.01
202.60	1.01
202.80	1.01
203.00	1.01
203.20	1.01
203.40	1.01
203.60	1.01
203.80	1.01
204.00	1.01
204.20	1.01
204.40	1.01
204.60	1.01
204.80	1.01
205.00	1.01
205.20	1.01
205.40	1.01
205.60	1.01
205.80	1.01
206.00	1.01
206.20	1.01
206.40	1.01
206.60	1.01
206.80	1.01
207.00	1.01
207.20	1.01
207.40	1.01
207.60	1.01
207.80	1.01
208.00	1.01
208.20	1.01
208.40	1.02

208.60	1.02
208.80	1.02
209.00	1.02
209.20	1.02
209.40	1.02
209.60	1.02
209.80	1.02
210.00	1.02
210.20	1.02
210.40	1.02
210.60	1.02
210.80	1.02
211.00	1.02
211.20	1.02
211.40	1.02
211.60	1.02
211.80	1.02
212.00	1.02
212.20	1.02
212.40	1.02
212.60	1.02
212.80	1.02
213.00	1.02
213.20	1.02
213.40	1.02
213.60	1.02
213.80	1.02
214.00	1.02
214.20	1.02
214.40	1.02
214.60	1.02
214.80	1.02
215.00	1.02
215.20	1.02
215.40	1.02
215.60	1.02
215.80	1.02
216.00	1.02
216.20	1.02
216.40	1.02
216.60	1.02
216.80	1.02
217.00	1.02
217.20	1.02
217.40	1.02
217.60	1.02
217.80	1.02
218.00	1.02
218.20	1.02
218.40	1.02
218.60	1.02
218.80	1.02
219.00	1.02
219.20	1.02
219.40	1.02
219.60	1.02
219.80	1.03
220.00	1.03
220.20	1.03
220.40	1.03
220.60	1.03
220.80	1.03
221.00	1.03
221.20	1.03
221.40	1.03
221.60	1.03

221.80	1.03
222.00	1.03
222.20	1.03
222.40	1.03
222.60	1.03
222.80	1.03
223.00	1.03
223.20	1.03
223.40	1.03
223.60	1.03
223.80	1.03
224.00	1.03
224.20	1.03
224.40	1.03
224.60	1.03
224.80	1.03
225.00	1.03
225.20	1.03
225.40	1.03
225.60	1.03
225.80	1.03
226.00	1.03
226.20	1.03
226.40	1.03
226.60	1.03
226.80	1.03
227.00	1.03
227.20	1.03
227.40	1.03
227.60	1.03
227.80	1.03
228.00	1.03
228.20	1.03
228.40	1.03
228.60	1.03
228.80	1.03
229.00	1.03
229.20	1.03
229.40	1.03
229.60	1.03
229.80	1.03
230.00	1.03
230.20	1.03
230.40	1.03
230.60	1.03
230.80	1.04
231.00	1.04
231.20	1.04
231.40	1.04
231.60	1.04
231.80	1.04
232.00	1.04
232.20	1.04
232.40	1.04
232.60	1.04
232.80	1.04
233.00	1.04
233.20	1.04
233.40	1.04
233.60	1.04
233.80	1.04
234.00	1.04
234.20	1.04
234.40	1.04
234.60	1.04
234.80	1.04

235.00	1.04
235.20	1.04
235.40	1.04
235.60	1.04
235.80	1.04
236.00	1.04
236.20	1.04
236.40	1.04
236.60	1.04
236.80	1.04
237.00	1.04
237.20	1.04
237.40	1.04
237.60	1.04
237.80	1.04
238.00	1.04
238.20	1.04
238.40	1.04
238.60	1.04
238.80	1.04
239.00	1.04
239.20	1.04
239.40	1.04
239.60	1.04
239.80	1.04
240.00	1.04
240.20	1.04
240.40	1.04
240.60	1.04
240.80	1.04
241.00	1.04
241.20	1.04
241.40	1.04
241.60	1.04
241.80	1.05
242.00	1.05
242.20	1.05
242.40	1.05
242.60	1.05
242.80	1.05
243.00	1.05
243.20	1.05
243.40	1.05
243.60	1.05
243.80	1.05
244.00	1.05
244.20	1.05
244.40	1.05
244.60	1.05
244.80	1.05
245.00	1.05
245.20	1.05
245.40	1.05
245.60	1.05
245.80	1.05
246.00	1.05
246.20	1.05
246.40	1.05
246.60	1.05
246.80	1.05
247.00	1.05
247.20	1.05
247.40	1.05
247.60	1.05
247.80	1.05
248.00	1.05

248.20	1.05
248.40	1.05
248.60	1.05
248.80	1.05
249.00	1.05
249.20	1.05
249.40	1.05
249.60	1.05
249.80	1.05
250.00	1.05
250.20	1.05
250.40	1.05
250.60	1.05
250.80	1.05
251.00	1.05
251.20	1.05
251.40	1.05
251.60	1.05
251.80	1.05
252.00	1.05
252.20	1.05
252.40	1.06
252.60	1.06
252.80	1.06
253.00	1.06
253.20	1.06
253.40	1.06
253.60	1.06
253.80	1.06
254.00	1.06
254.20	1.06
254.40	1.06
254.60	1.06
254.80	1.06
255.00	1.06
255.20	1.06
255.40	1.06
255.60	1.06
255.80	1.06
256.00	1.06
256.20	1.06
256.40	1.06
256.60	1.06
256.80	1.06
257.00	1.06
257.20	1.06
257.40	1.06
257.60	1.06
257.80	1.06
258.00	1.06
258.20	1.06
258.40	1.06
258.60	1.06
258.80	1.06
259.00	1.06
259.20	1.06
259.40	1.06
259.60	1.06
259.80	1.06
260.00	1.06
260.20	1.06
260.40	1.06
260.60	1.06
260.80	1.06
261.00	1.06
261.20	1.06

261.40	1.06
261.60	1.06
261.80	1.06
262.00	1.06
262.20	1.06
262.40	1.06
262.60	1.06
262.80	1.07
263.00	1.07
263.20	1.07
263.40	1.07
263.60	1.07
263.80	1.07
264.00	1.07
264.20	1.07
264.40	1.07
264.60	1.07
264.80	1.07
265.00	1.07
265.20	1.07
265.40	1.07
265.60	1.07
265.80	1.07
266.00	1.07
266.20	1.07
266.40	1.07
266.60	1.07
266.80	1.07
267.00	1.07
267.20	1.07
267.40	1.07
267.60	1.07
267.80	1.07
268.00	1.07
268.20	1.07
268.40	1.07
268.60	1.07
268.80	1.07
269.00	1.07
269.20	1.07
269.40	1.07
269.60	1.07
269.80	1.07
270.00	1.07
270.20	1.07
270.40	1.07
270.60	1.07
270.80	1.07
271.00	1.07
271.20	1.07
271.40	1.07
271.60	1.07
271.80	1.07
272.00	1.07
272.20	1.07
272.40	1.07
272.60	1.07
272.80	1.07
273.00	1.08
273.20	1.08
273.40	1.08
273.60	1.08
273.80	1.08
274.00	1.08
274.20	1.08
274.40	1.08

274.60	1.08
274.80	1.08
275.00	1.08
275.20	1.08
275.40	1.08
275.60	1.08
275.80	1.08
276.00	1.08
276.20	1.08
276.40	1.08
276.60	1.08
276.80	1.08
277.00	1.08
277.20	1.08
277.40	1.08
277.60	1.08
277.80	1.08
278.00	1.08
278.20	1.08
278.40	1.08
278.60	1.08
278.80	1.08
279.00	1.08
279.20	1.08
279.40	1.08
279.60	1.08
279.80	1.08
280.00	1.08
280.20	1.08
280.40	1.08
280.60	1.08
280.80	1.08
281.00	1.08
281.20	1.08
281.40	1.08
281.60	1.08
281.80	1.08
282.00	1.08
282.20	1.08
282.40	1.08
282.60	1.08
282.80	1.08
283.00	1.09
283.20	1.09
283.40	1.09
283.60	1.09
283.80	1.09
284.00	1.09
284.20	1.09
284.40	1.09
284.60	1.09
284.80	1.09
285.00	1.09
285.20	1.09
285.40	1.09
285.60	1.09
285.80	1.09
286.00	1.09
286.20	1.09
286.40	1.09
286.60	1.09
286.80	1.09
287.00	1.09
287.20	1.09
287.40	1.09
287.60	1.09

287.80	1.09
288.00	1.09
288.20	1.09
288.40	1.09
288.60	1.09
288.80	1.09
289.00	1.09
289.20	1.09
289.40	1.09
289.60	1.09
289.80	1.09
290.00	1.09
290.20	1.09
290.40	1.09
290.60	1.09
290.80	1.09
291.00	1.09
291.20	1.09
291.40	1.09
291.60	1.09
291.80	1.09
292.00	1.09
292.20	1.09
292.40	1.09
292.60	1.09
292.80	1.10
293.00	1.10
293.20	1.10
293.40	1.10
293.60	1.10
293.80	1.10
294.00	1.10
294.20	1.10
294.40	1.10
294.60	1.10
294.80	1.10
295.00	1.10
295.20	1.10
295.40	1.10
295.60	1.10
295.80	1.10
296.00	1.10
296.20	1.10
296.40	1.10
296.60	1.10
296.80	1.10
297.00	1.10
297.20	1.10
297.40	1.10
297.60	1.10
297.80	1.10
298.00	1.10
298.20	1.10
298.40	1.10
298.60	1.10
298.80	1.10
299.00	1.10
299.20	1.10
299.40	1.10
299.60	1.10
299.80	1.10
300.00	1.10
300.20	1.10
300.40	1.10
300.60	1.10
300.80	1.10

301.00	1.10
301.20	1.10
301.40	1.10
301.60	1.10
301.80	1.10
302.00	1.10
302.20	1.10
302.40	1.11
302.60	1.11
302.80	1.11
303.00	1.11
303.20	1.11
303.40	1.11
303.60	1.11
303.80	1.11
304.00	1.11
304.20	1.11
304.40	1.11
304.60	1.11
304.80	1.11
305.00	1.11
305.20	1.11
305.40	1.11
305.60	1.11
305.80	1.11
306.00	1.11
306.20	1.11
306.40	1.11
306.60	1.11
306.80	1.11
307.00	1.11
307.20	1.11
307.40	1.11
307.60	1.11
307.80	1.11
308.00	1.11
308.20	1.11
308.40	1.11
308.60	1.11
308.80	1.11
309.00	1.11
309.20	1.11
309.40	1.11
309.60	1.11
309.80	1.11
310.00	1.11
310.20	1.11
310.40	1.11
310.60	1.11
310.80	1.11
311.00	1.11
311.20	1.11
311.40	1.11
311.60	1.12
311.80	1.12
312.00	1.12
312.20	1.12
312.40	1.12
312.60	1.12
312.80	1.12
313.00	1.12
313.20	1.12
313.40	1.12
313.60	1.12
313.80	1.12
314.00	1.12

314.20	1.12
314.40	1.12
314.60	1.12
314.80	1.12
315.00	1.12
315.20	1.12
315.40	1.12
315.60	1.12
315.80	1.12
316.00	1.12
316.20	1.12
316.40	1.12
316.60	1.12
316.80	1.12
317.00	1.12
317.20	1.12
317.40	1.12
317.60	1.12
317.80	1.12
318.00	1.12
318.20	1.12
318.40	1.12
318.60	1.12
318.80	1.12
319.00	1.12
319.20	1.12
319.40	1.12
319.60	1.12
319.80	1.12
320.00	1.12
320.20	1.12
320.40	1.12
320.60	1.12
320.80	1.13
321.00	1.13
321.20	1.13
321.40	1.13
321.60	1.13
321.80	1.13
322.00	1.13
322.20	1.13
322.40	1.13
322.60	1.13
322.80	1.13
323.00	1.13
323.20	1.13
323.40	1.13
323.60	1.13
323.80	1.13
324.00	1.13
324.20	1.13
324.40	1.13
324.60	1.13
324.80	1.13
325.00	1.13
325.20	1.13
325.40	1.13
325.60	1.13
325.80	1.13
326.00	1.13
326.20	1.13
326.40	1.13
326.60	1.13
326.80	1.13
327.00	1.13
327.20	1.13

327.40	1.13
327.60	1.13
327.80	1.13
328.00	1.13
328.20	1.13
328.40	1.13
328.60	1.13
328.80	1.13
329.00	1.13
329.20	1.13
329.40	1.13
329.60	1.13
329.80	1.14
330.00	1.14
330.20	1.14
330.40	1.14
330.60	1.14
330.80	1.14
331.00	1.14
331.20	1.14
331.40	1.14
331.60	1.14
331.80	1.14
332.00	1.14
332.20	1.14
332.40	1.14
332.60	1.14
332.80	1.14
333.00	1.14
333.20	1.14
333.40	1.14
333.60	1.14
333.80	1.14
334.00	1.14
334.20	1.14
334.40	1.14
334.60	1.14
334.80	1.14
335.00	1.14
335.20	1.14
335.40	1.14
335.60	1.14
335.80	1.14
336.00	1.14
336.20	1.14
336.40	1.14
336.60	1.14
336.80	1.14
337.00	1.14
337.20	1.14
337.40	1.14
337.60	1.14
337.80	1.14
338.00	1.14
338.20	1.14
338.40	1.14
338.60	1.14
338.80	1.15
339.00	1.15
339.20	1.15
339.40	1.15
339.60	1.15
339.80	1.15
340.00	1.15
340.20	1.15
340.40	1.15

340.60	1.15
340.80	1.15
341.00	1.15
341.20	1.15
341.40	1.15
341.60	1.15
341.80	1.15
342.00	1.15
342.20	1.15
342.40	1.15
342.60	1.15
342.80	1.15
343.00	1.15
343.20	1.15
343.40	1.15
343.60	1.15
343.80	1.15
344.00	1.15
344.20	1.15
344.40	1.15
344.60	1.15
344.80	1.15
345.00	1.15
345.20	1.15
345.40	1.15
345.60	1.15
345.80	1.15
346.00	1.15
346.20	1.15
346.40	1.15
346.60	1.15
346.80	1.15
347.00	1.15
347.20	1.15
347.40	1.16
347.60	1.16
347.80	1.16
348.00	1.16
348.20	1.16
348.40	1.16
348.60	1.16
348.80	1.16
349.00	1.16
349.20	1.16
349.40	1.16
349.60	1.16
349.80	1.16
350.00	1.16
350.20	1.16
350.40	1.16
350.60	1.16
350.80	1.16
351.00	1.16
351.20	1.16
351.40	1.16
351.60	1.16
351.80	1.16
352.00	1.16
352.20	1.16
352.40	1.16
352.60	1.16
352.80	1.16
353.00	1.16
353.20	1.16
353.40	1.16
353.60	1.16

353.80	1.16
354.00	1.16
354.20	1.16
354.40	1.16
354.60	1.16
354.80	1.16
355.00	1.16
355.20	1.16
355.40	1.16
355.60	1.16
355.80	1.17
356.00	1.17
356.20	1.17
356.40	1.17
356.60	1.17
356.80	1.17
357.00	1.17
357.20	1.17
357.40	1.17
357.60	1.17
357.80	1.17
358.00	1.17
358.20	1.17
358.40	1.17
358.60	1.17
358.80	1.17
359.00	1.17
359.20	1.17
359.40	1.17
359.60	1.17
359.80	1.17
360.00	1.17
360.20	1.17
360.40	1.17
360.60	1.17
360.80	1.17
361.00	1.17
361.20	1.17
361.40	1.17
361.60	1.17
361.80	1.17
362.00	1.17
362.20	1.17
362.40	1.17
362.60	1.17
362.80	1.17
363.00	1.17
363.20	1.17
363.40	1.17
363.60	1.17
363.80	1.17
364.00	1.17
364.20	1.18
364.40	1.18
364.60	1.18
364.80	1.18
365.00	1.18
365.20	1.18
365.40	1.18
365.60	1.18
365.80	1.18
366.00	1.18
366.20	1.18
366.40	1.18
366.60	1.18
366.80	1.18

367.00	1.18
367.20	1.18
367.40	1.18
367.60	1.18
367.80	1.18
368.00	1.18
368.20	1.18
368.40	1.18
368.60	1.18
368.80	1.18
369.00	1.18
369.20	1.18
369.40	1.18
369.60	1.18
369.80	1.18
370.00	1.18
370.20	1.18
370.40	1.18
370.60	1.18
370.80	1.18
371.00	1.18
371.20	1.18
371.40	1.18
371.60	1.18
371.80	1.18
372.00	1.18
372.20	1.18
372.40	1.19
372.60	1.19
372.80	1.19
373.00	1.19
373.20	1.19
373.40	1.19
373.60	1.19
373.80	1.19
374.00	1.19
374.20	1.19
374.40	1.19
374.60	1.19
374.80	1.19
375.00	1.19
375.20	1.19
375.40	1.19
375.60	1.19
375.80	1.19
376.00	1.19
376.20	1.19
376.40	1.19
376.60	1.19
376.80	1.19
377.00	1.19
377.20	1.19
377.40	1.19
377.60	1.19
377.80	1.19
378.00	1.19
378.20	1.19
378.40	1.19
378.60	1.19
378.80	1.19
379.00	1.19
379.20	1.19
379.40	1.19
379.60	1.19
379.80	1.19
380.00	1.19

380.20	1.19
380.40	1.20
380.60	1.20
380.80	1.20
381.00	1.20
381.20	1.20
381.40	1.20
381.60	1.20
381.80	1.20
382.00	1.20
382.20	1.20
382.40	1.20
382.60	1.20
382.80	1.20
383.00	1.20
383.20	1.20
383.40	1.20
383.60	1.20
383.80	1.20
384.00	1.20
384.20	1.20
384.40	1.20
384.60	1.20
384.80	1.20
385.00	1.20
385.20	1.20
385.40	1.20
385.60	1.20
385.80	1.20
386.00	1.20
386.20	1.20
386.40	1.20
386.60	1.20
386.80	1.20
387.00	1.20
387.20	1.20
387.40	1.20
387.60	1.20
387.80	1.20
388.00	1.20
388.20	1.21
388.40	1.21
388.60	1.21
388.80	1.21
389.00	1.21
389.20	1.21
389.40	1.21
389.60	1.21
389.80	1.21
390.00	1.21
390.20	1.21
390.40	1.21
390.60	1.21
390.80	1.21
391.00	1.21
391.20	1.21
391.40	1.21
391.60	1.21
391.80	1.21
392.00	1.21
392.20	1.21
392.40	1.21
392.60	1.21
392.80	1.21
393.00	1.21
393.20	1.21

393.40	1.21
393.60	1.21
393.80	1.21
394.00	1.21
394.20	1.21
394.40	1.21
394.60	1.21
394.80	1.21
395.00	1.21
395.20	1.21
395.40	1.21
395.60	1.21
395.80	1.22
396.00	1.22
396.20	1.22
396.40	1.22
396.60	1.22
396.80	1.22
397.00	1.22
397.20	1.22
397.40	1.22
397.60	1.22
397.80	1.22
398.00	1.22
398.20	1.22
398.40	1.22
398.60	1.22
398.80	1.22
399.00	1.22
399.20	1.22
399.40	1.22
399.60	1.22
399.80	1.22
400.00	1.22
400.20	1.22
400.40	1.22
400.60	1.22
400.80	1.22
401.00	1.22
401.20	1.22
401.40	1.22
401.60	1.22
401.80	1.22
402.00	1.22
402.20	1.22
402.40	1.22
402.60	1.22
402.80	1.22
403.00	1.22
403.20	1.22
403.40	1.23
403.60	1.23
403.80	1.23
404.00	1.23
404.20	1.23
404.40	1.23
404.60	1.23
404.80	1.23
405.00	1.23
405.20	1.23
405.40	1.23
405.60	1.23
405.80	1.23
406.00	1.23
406.20	1.23
406.40	1.23

406.60	1.23
406.80	1.23
407.00	1.23
407.20	1.23
407.40	1.23
407.60	1.23
407.80	1.23
408.00	1.23
408.20	1.23
408.40	1.23
408.60	1.23
408.80	1.23
409.00	1.23
409.20	1.23
409.40	1.23
409.60	1.23
409.80	1.23
410.00	1.23
410.20	1.23
410.40	1.23
410.60	1.23
410.80	1.24
411.00	1.24
411.20	1.24
411.40	1.24
411.60	1.24
411.80	1.24
412.00	1.24
412.20	1.24
412.40	1.24
412.60	1.24
412.80	1.24
413.00	1.24
413.20	1.24
413.40	1.24
413.60	1.24
413.80	1.24
414.00	1.24
414.20	1.24
414.40	1.24
414.60	1.24
414.80	1.24
415.00	1.24
415.20	1.24
415.40	1.24
415.60	1.24
415.80	1.24
416.00	1.24
416.20	1.24
416.40	1.24
416.60	1.24
416.80	1.24
417.00	1.24
417.20	1.24
417.40	1.24
417.60	1.24
417.80	1.24
418.00	1.24
418.20	1.25
418.40	1.25
418.60	1.25
418.80	1.25
419.00	1.25
419.20	1.25
419.40	1.25
419.60	1.25

419.80	1.25
420.00	1.25
420.20	1.25
420.40	1.25
420.60	1.25
420.80	1.25
421.00	1.25
421.20	1.25
421.40	1.25
421.60	1.25
421.80	1.25
422.00	1.25
422.20	1.25
422.40	1.25
422.60	1.25
422.80	1.25
423.00	1.25
423.20	1.25
423.40	1.25
423.60	1.25
423.80	1.25
424.00	1.25
424.20	1.25
424.40	1.25
424.60	1.25
424.80	1.25
425.00	1.25
425.20	1.25
425.40	1.26
425.60	1.26
425.80	1.26
426.00	1.26
426.20	1.26
426.40	1.26
426.60	1.26
426.80	1.26
427.00	1.26
427.20	1.26
427.40	1.26
427.60	1.26
427.80	1.26
428.00	1.26
428.20	1.26
428.40	1.26
428.60	1.26
428.80	1.26
429.00	1.26
429.20	1.26
429.40	1.26
429.60	1.26
429.80	1.26
430.00	1.26
430.20	1.26
430.40	1.26
430.60	1.26
430.80	1.26
431.00	1.26
431.20	1.26
431.40	1.26
431.60	1.26
431.80	1.26
432.00	1.26
432.20	1.26
432.40	1.27
432.60	1.27
432.80	1.27

433.00	1.27
433.20	1.27
433.40	1.27
433.60	1.27
433.80	1.27
434.00	1.27
434.20	1.27
434.40	1.27
434.60	1.27
434.80	1.27
435.00	1.27
435.20	1.27
435.40	1.27
435.60	1.27
435.80	1.27
436.00	1.27
436.20	1.27
436.40	1.27
436.60	1.27
436.80	1.27
437.00	1.27
437.20	1.27
437.40	1.27
437.60	1.27
437.80	1.27
438.00	1.27
438.20	1.27
438.40	1.27
438.60	1.27
438.80	1.27
439.00	1.27
439.20	1.27
439.40	1.28
439.60	1.28
439.80	1.28
440.00	1.28
440.20	1.28
440.40	1.28
440.60	1.28
440.80	1.28
441.00	1.28
441.20	1.28
441.40	1.28
441.60	1.28
441.80	1.28
442.00	1.28
442.20	1.28
442.40	1.28
442.60	1.28
442.80	1.28
443.00	1.28
443.20	1.28
443.40	1.28
443.60	1.28
443.80	1.28
444.00	1.28
444.20	1.28
444.40	1.28
444.60	1.28
444.80	1.28
445.00	1.28
445.20	1.28
445.40	1.28
445.60	1.28
445.80	1.28
446.00	1.29

446.20	1.29
446.40	1.29
446.60	1.29
446.80	1.29
447.00	1.29
447.20	1.29
447.40	1.29
447.60	1.29
447.80	1.29
448.00	1.29
448.20	1.29
448.40	1.29
448.60	1.29
448.80	1.29
449.00	1.29
449.20	1.29
449.40	1.29
449.60	1.29
449.80	1.29
450.00	1.29
450.20	1.29
450.40	1.29
450.60	1.29
450.80	1.29
451.00	1.29
451.20	1.29
451.40	1.29
451.60	1.29
451.80	1.29
452.00	1.29
452.20	1.29
452.40	1.29
452.60	1.29
452.80	1.30
453.00	1.30
453.20	1.30
453.40	1.30
453.60	1.30
453.80	1.30
454.00	1.30
454.20	1.30
454.40	1.30
454.60	1.30
454.80	1.30
455.00	1.30
455.20	1.30
455.40	1.30
455.60	1.30
455.80	1.30
456.00	1.30
456.20	1.30
456.40	1.30
456.60	1.30
456.80	1.30
457.00	1.30
457.20	1.30
457.40	1.30
457.60	1.30
457.80	1.30
458.00	1.30
458.20	1.30
458.40	1.30
458.60	1.30
458.80	1.30
459.00	1.30
459.20	1.31

459.40	1.31
459.60	1.31
459.80	1.31
460.00	1.31
460.20	1.31
460.40	1.31
460.60	1.31
460.80	1.31
461.00	1.31
461.20	1.31
461.40	1.31
461.60	1.31
461.80	1.31
462.00	1.31
462.20	1.31
462.40	1.31
462.60	1.31
462.80	1.31
463.00	1.31
463.20	1.31
463.40	1.31
463.60	1.31
463.80	1.31
464.00	1.31
464.20	1.31
464.40	1.31
464.60	1.31
464.80	1.31
465.00	1.31
465.20	1.31
465.40	1.31
465.60	1.31
465.80	1.32
466.00	1.32
466.20	1.32
466.40	1.32
466.60	1.32
466.80	1.32
467.00	1.32
467.20	1.32
467.40	1.32
467.60	1.32
467.80	1.32
468.00	1.32
468.20	1.32
468.40	1.32
468.60	1.32
468.80	1.32
469.00	1.32
469.20	1.32
469.40	1.32
469.60	1.32
469.80	1.32
470.00	1.32
470.20	1.32
470.40	1.32
470.60	1.32
470.80	1.32
471.00	1.32
471.20	1.32
471.40	1.32
471.60	1.32
471.80	1.32
472.00	1.33
472.20	1.33
472.40	1.33

472.60	1.33
472.80	1.33
473.00	1.33
473.20	1.33
473.40	1.33
473.60	1.33
473.80	1.33
474.00	1.33
474.20	1.33
474.40	1.33
474.60	1.33
474.80	1.33
475.00	1.33
475.20	1.33
475.40	1.33
475.60	1.33
475.80	1.33
476.00	1.33
476.20	1.33
476.40	1.33
476.60	1.33
476.80	1.33
477.00	1.33
477.20	1.33
477.40	1.33
477.60	1.33
477.80	1.33
478.00	1.33
478.20	1.34
478.40	1.34
478.60	1.34
478.80	1.34
479.00	1.34
479.20	1.34
479.40	1.34
479.60	1.34
479.80	1.34
480.00	1.34
480.20	1.34
480.40	1.34
480.60	1.34
480.80	1.34
481.00	1.34
481.20	1.34
481.40	1.34
481.60	1.34
481.80	1.34
482.00	1.34
482.20	1.34
482.40	1.34
482.60	1.34
482.80	1.34
483.00	1.34
483.20	1.34
483.40	1.34
483.60	1.34
483.80	1.34
484.00	1.34
484.20	1.35
484.40	1.35
484.60	1.35
484.80	1.35
485.00	1.35
485.20	1.35
485.40	1.35
485.60	1.35

485.80	1.35
486.00	1.35
486.20	1.35
486.40	1.35
486.60	1.35
486.80	1.35
487.00	1.35
487.20	1.35
487.40	1.35
487.60	1.35
487.80	1.35
488.00	1.35
488.20	1.35
488.40	1.35
488.60	1.35
488.80	1.35
489.00	1.35
489.20	1.35
489.40	1.35
489.60	1.35
489.80	1.35
490.00	1.35
490.20	1.36
490.40	1.36
490.60	1.36
490.80	1.36
491.00	1.36
491.20	1.36
491.40	1.36
491.60	1.36
491.80	1.36
492.00	1.36
492.20	1.36
492.40	1.36
492.60	1.36
492.80	1.36
493.00	1.36
493.20	1.36
493.40	1.36
493.60	1.36
493.80	1.36
494.00	1.36
494.20	1.36
494.40	1.36
494.60	1.36
494.80	1.36
495.00	1.36
495.20	1.36
495.40	1.36
495.60	1.36
495.80	1.36
496.00	1.36
496.20	1.37
496.40	1.37
496.60	1.37
496.80	1.37
497.00	1.37
497.20	1.37
497.40	1.37
497.60	1.37
497.80	1.37
498.00	1.37
498.20	1.37
498.40	1.37
498.60	1.37
498.80	1.37

499.00	1.37
499.20	1.37
499.40	1.37
499.60	1.37
499.80	1.37
500.00	1.37
500.20	1.37
500.40	1.37
500.60	1.37
500.80	1.37
501.00	1.37
501.20	1.37
501.40	1.37
501.60	1.37
501.80	1.37
502.00	1.38
502.20	1.38
502.40	1.38
502.60	1.38
502.80	1.38
503.00	1.38
503.20	1.38
503.40	1.38
503.60	1.38
503.80	1.38
504.00	1.38
504.20	1.38
504.40	1.38
504.60	1.38
504.80	1.38
505.00	1.38
505.20	1.38
505.40	1.38
505.60	1.38
505.80	1.38
506.00	1.38
506.20	1.38
506.40	1.38
506.60	1.38
506.80	1.38
507.00	1.38
507.20	1.38
507.40	1.38
507.60	1.38
507.80	1.39
508.00	1.39
508.20	1.39
508.40	1.39
508.60	1.39
508.80	1.39
509.00	1.39
509.20	1.39
509.40	1.39
509.60	1.39
509.80	1.39
510.00	1.39
510.20	1.39
510.40	1.39
510.60	1.39
510.80	1.39
511.00	1.39
511.20	1.39
511.40	1.39
511.60	1.39
511.80	1.39
512.00	1.39

512.20	1.39
512.40	1.39
512.60	1.39
512.80	1.39
513.00	1.39
513.20	1.39
513.40	1.40
513.60	1.40
513.80	1.40
514.00	1.40
514.20	1.40
514.40	1.40
514.60	1.40
514.80	1.40
515.00	1.40
515.20	1.40
515.40	1.40
515.60	1.40
515.80	1.40
516.00	1.40
516.20	1.40
516.40	1.40
516.60	1.40
516.80	1.40
517.00	1.40
517.20	1.40
517.40	1.40
517.60	1.40
517.80	1.40
518.00	1.40
518.20	1.40
518.40	1.40
518.60	1.40
518.80	1.41
519.00	1.41
519.20	1.41
519.40	1.41
519.60	1.41
519.80	1.41
520.00	1.41
520.20	1.41
520.40	1.41
520.60	1.41
520.80	1.41
521.00	1.41
521.20	1.41
521.40	1.41
521.60	1.41
521.80	1.41
522.00	1.41
522.20	1.41
522.40	1.41
522.60	1.41
522.80	1.41
523.00	1.41
523.20	1.41
523.40	1.41
523.60	1.41
523.80	1.41
524.00	1.41
524.20	1.41
524.40	1.42
524.60	1.42
524.80	1.42
525.00	1.42
525.20	1.42

525.40	1.42
525.60	1.42
525.80	1.42
526.00	1.42
526.20	1.42
526.40	1.42
526.60	1.42
526.80	1.42
527.00	1.42
527.20	1.42
527.40	1.42
527.60	1.42
527.80	1.42
528.00	1.42
528.20	1.42
528.40	1.42
528.60	1.42
528.80	1.42
529.00	1.42
529.20	1.42
529.40	1.42
529.60	1.43
529.80	1.43
530.00	1.43
530.20	1.43
530.40	1.43
530.60	1.43
530.80	1.43
531.00	1.43
531.20	1.43
531.40	1.43
531.60	1.43
531.80	1.43
532.00	1.43
532.20	1.43
532.40	1.43
532.60	1.43
532.80	1.43
533.00	1.43
533.20	1.43
533.40	1.43
533.60	1.43
533.80	1.43
534.00	1.43
534.20	1.43
534.40	1.43
534.60	1.43
534.80	1.43
535.00	1.44
535.20	1.44
535.40	1.44
535.60	1.44
535.80	1.44
536.00	1.44
536.20	1.44
536.40	1.44
536.60	1.44
536.80	1.44
537.00	1.44
537.20	1.44
537.40	1.44
537.60	1.44
537.80	1.44
538.00	1.44
538.20	1.44
538.40	1.44

538.60	1.44
538.80	1.44
539.00	1.44
539.20	1.44
539.40	1.44
539.60	1.44
539.80	1.44
540.00	1.44
540.20	1.45
540.40	1.45
540.60	1.45
540.80	1.45
541.00	1.45
541.20	1.45
541.40	1.45
541.60	1.45
541.80	1.45
542.00	1.45
542.20	1.45
542.40	1.45
542.60	1.45
542.80	1.45
543.00	1.45
543.20	1.45
543.40	1.45
543.60	1.45
543.80	1.45
544.00	1.45
544.20	1.45
544.40	1.45
544.60	1.45
544.80	1.45
545.00	1.45
545.20	1.46
545.40	1.46
545.60	1.46
545.80	1.46
546.00	1.46
546.20	1.46
546.40	1.46
546.60	1.46
546.80	1.46
547.00	1.46
547.20	1.46
547.40	1.46
547.60	1.46
547.80	1.46
548.00	1.46
548.20	1.46
548.40	1.46
548.60	1.46
548.80	1.46
549.00	1.46
549.20	1.46
549.40	1.46
549.60	1.46
549.80	1.46
550.00	1.46
550.20	1.47
550.40	1.47
550.60	1.47
550.80	1.47
551.00	1.47
551.20	1.47
551.40	1.47
551.60	1.47

551.80	1.47
552.00	1.47
552.20	1.47
552.40	1.47
552.60	1.47
552.80	1.47
553.00	1.47
553.20	1.47
553.40	1.47
553.60	1.47
553.80	1.47
554.00	1.47
554.20	1.47
554.40	1.47
554.60	1.47
554.80	1.47
555.00	1.47
555.20	1.48
555.40	1.48
555.60	1.48
555.80	1.48
556.00	1.48
556.20	1.48
556.40	1.48
556.60	1.48
556.80	1.48
557.00	1.48
557.20	1.48
557.40	1.48
557.60	1.48
557.80	1.48
558.00	1.48
558.20	1.48
558.40	1.48
558.60	1.48
558.80	1.48
559.00	1.48
559.20	1.48
559.40	1.48
559.60	1.48
559.80	1.48
560.00	1.49
560.20	1.49
560.40	1.49
560.60	1.49
560.80	1.49
561.00	1.49
561.20	1.49
561.40	1.49
561.60	1.49
561.80	1.49
562.00	1.49
562.20	1.49
562.40	1.49
562.60	1.49
562.80	1.49
563.00	1.49
563.20	1.49
563.40	1.49
563.60	1.49
563.80	1.49
564.00	1.49
564.20	1.49
564.40	1.49
564.60	1.49
564.80	1.50

565.00	1.50
565.20	1.50
565.40	1.50
565.60	1.50
565.80	1.50
566.00	1.50
566.20	1.50
566.40	1.50
566.60	1.50
566.80	1.50
567.00	1.50
567.20	1.50
567.40	1.50
567.60	1.50
567.80	1.50
568.00	1.50
568.20	1.50
568.40	1.50
568.60	1.50
568.80	1.50
569.00	1.50
569.20	1.50
569.40	1.50
569.60	1.51
569.80	1.51
570.00	1.51
570.20	1.51
570.40	1.51
570.60	1.51
570.80	1.51
571.00	1.51
571.20	1.51
571.40	1.51
571.60	1.51
571.80	1.51
572.00	1.51
572.20	1.51
572.40	1.51
572.60	1.51
572.80	1.51
573.00	1.51
573.20	1.51
573.40	1.51
573.60	1.51
573.80	1.51
574.00	1.51
574.20	1.51
574.40	1.52
574.60	1.52
574.80	1.52
575.00	1.52
575.20	1.52
575.40	1.52
575.60	1.52
575.80	1.52
576.00	1.52
576.20	1.52
576.40	1.52
576.60	1.52
576.80	1.52
577.00	1.52
577.20	1.52
577.40	1.52
577.60	1.52
577.80	1.52
578.00	1.52

578.20	1.52
578.40	1.52
578.60	1.52
578.80	1.52
579.00	1.53
579.20	1.53
579.40	1.53
579.60	1.53
579.80	1.53
580.00	1.53
580.20	1.53
580.40	1.53
580.60	1.53
580.80	1.53
581.00	1.53
581.20	1.53
581.40	1.53
581.60	1.53
581.80	1.53
582.00	1.53
582.20	1.53
582.40	1.53
582.60	1.53
582.80	1.53
583.00	1.53
583.20	1.53
583.40	1.54
583.60	1.54
583.80	1.54
584.00	1.54
584.20	1.54
584.40	1.54
584.60	1.54
584.80	1.54
585.00	1.54
585.20	1.54
585.40	1.54
585.60	1.54
585.80	1.54
586.00	1.54
586.20	1.54
586.40	1.54
586.60	1.54
586.80	1.54
587.00	1.54
587.20	1.54
587.40	1.54
587.60	1.54
587.80	1.55
588.00	1.55
588.20	1.55
588.40	1.55
588.60	1.55
588.80	1.55
589.00	1.55
589.20	1.55
589.40	1.55
589.60	1.55
589.80	1.55
590.00	1.55
590.20	1.55
590.40	1.55
590.60	1.55
590.80	1.55
591.00	1.55
591.20	1.55

591.40	1.55
591.60	1.55
591.80	1.55
592.00	1.55
592.20	1.56
592.40	1.56
592.60	1.56
592.80	1.56
593.00	1.56
593.20	1.56
593.40	1.56
593.60	1.56
593.80	1.56
594.00	1.56
594.20	1.56
594.40	1.56
594.60	1.56
594.80	1.56
595.00	1.56
595.20	1.56
595.40	1.56
595.60	1.56
595.80	1.56
596.00	1.56
596.20	1.56
596.40	1.56
596.60	1.57
596.80	1.57
597.00	1.57
597.20	1.57
597.40	1.57
597.60	1.57
597.80	1.57
598.00	1.57
598.20	1.57
598.40	1.57
598.60	1.57
598.80	1.57
599.00	1.57
599.20	1.57
599.40	1.57
599.60	1.57
599.80	1.57
600.00	1.57
600.20	1.57
600.40	1.57
600.60	1.57
600.80	1.58
601.00	1.58
601.20	1.58
601.40	1.58
601.60	1.58
601.80	1.58
602.00	1.58
602.20	1.58
602.40	1.58
602.60	1.58
602.80	1.58
603.00	1.58
603.20	1.58
603.40	1.58
603.60	1.58
603.80	1.58
604.00	1.58
604.20	1.58
604.40	1.58

604.60	1.58
604.80	1.58
605.00	1.59
605.20	1.59
605.40	1.59
605.60	1.59
605.80	1.59
606.00	1.59
606.20	1.59
606.40	1.59
606.60	1.59
606.80	1.59
607.00	1.59
607.20	1.59
607.40	1.59
607.60	1.59
607.80	1.59
608.00	1.59
608.20	1.59
608.40	1.59
608.60	1.59
608.80	1.59
609.00	1.59
609.20	1.60
609.40	1.60
609.60	1.60
609.80	1.60
610.00	1.60
610.20	1.60
610.40	1.60
610.60	1.60
610.80	1.60
611.00	1.60
611.20	1.60
611.40	1.60
611.60	1.60
611.80	1.60
612.00	1.60
612.20	1.60
612.40	1.60
612.60	1.60
612.80	1.60
613.00	1.60
613.20	1.61
613.40	1.61
613.60	1.61
613.80	1.61
614.00	1.61
614.20	1.61
614.40	1.61
614.60	1.61
614.80	1.61
615.00	1.61
615.20	1.61
615.40	1.61
615.60	1.61
615.80	1.61
616.00	1.61
616.20	1.61
616.40	1.61
616.60	1.61
616.80	1.61
617.00	1.61
617.20	1.61
617.40	1.62
617.60	1.62

617.80	1.62
618.00	1.62
618.20	1.62
618.40	1.62
618.60	1.62
618.80	1.62
619.00	1.62
619.20	1.62
619.40	1.62
619.60	1.62
619.80	1.62
620.00	1.62
620.20	1.62
620.40	1.62
620.60	1.62
620.80	1.62
621.00	1.62
621.20	1.63
621.40	1.63
621.60	1.63
621.80	1.63
622.00	1.63
622.20	1.63
622.40	1.63
622.60	1.63
622.80	1.63
623.00	1.63
623.20	1.63
623.40	1.63
623.60	1.63
623.80	1.63
624.00	1.63
624.20	1.63
624.40	1.63
624.60	1.63
624.80	1.63
625.00	1.63
625.20	1.64
625.40	1.64
625.60	1.64
625.80	1.64
626.00	1.64
626.20	1.64
626.40	1.64
626.60	1.64
626.80	1.64
627.00	1.64
627.20	1.64
627.40	1.64
627.60	1.64
627.80	1.64
628.00	1.64
628.20	1.64
628.40	1.64
628.60	1.64
628.80	1.64
629.00	1.65
629.20	1.65
629.40	1.65
629.60	1.65
629.80	1.65
630.00	1.65
630.20	1.65
630.40	1.65
630.60	1.65
630.80	1.65

631.00	1.65
631.20	1.65
631.40	1.65
631.60	1.65
631.80	1.65
632.00	1.65
632.20	1.65
632.40	1.65
632.60	1.65
632.80	1.65
633.00	1.66
633.20	1.66
633.40	1.66
633.60	1.66
633.80	1.66
634.00	1.66
634.20	1.66
634.40	1.66
634.60	1.66
634.80	1.66
635.00	1.66
635.20	1.66
635.40	1.66
635.60	1.66
635.80	1.66
636.00	1.66
636.20	1.66
636.40	1.66
636.60	1.67
636.80	1.67
637.00	1.67
637.20	1.67
637.40	1.67
637.60	1.67
637.80	1.67
638.00	1.67
638.20	1.67
638.40	1.67
638.60	1.67
638.80	1.67
639.00	1.67
639.20	1.67
639.40	1.67
639.60	1.67
639.80	1.67
640.00	1.67
640.20	1.67
640.40	1.68
640.60	1.68
640.80	1.68
641.00	1.68
641.20	1.68
641.40	1.68
641.60	1.68
641.80	1.68
642.00	1.68
642.20	1.68
642.40	1.68
642.60	1.68
642.80	1.68
643.00	1.68
643.20	1.68
643.40	1.68
643.60	1.68
643.80	1.68
644.00	1.69

644.20	1.69
644.40	1.69
644.60	1.69
644.80	1.69
645.00	1.69
645.20	1.69
645.40	1.69
645.60	1.69
645.80	1.69
646.00	1.69
646.20	1.69
646.40	1.69
646.60	1.69
646.80	1.69
647.00	1.69
647.20	1.69
647.40	1.69
647.60	1.70
647.80	1.70
648.00	1.70
648.20	1.70
648.40	1.70
648.60	1.70
648.80	1.70
649.00	1.70
649.20	1.70
649.40	1.70
649.60	1.70
649.80	1.70
650.00	1.70
650.20	1.70
650.40	1.70
650.60	1.70
650.80	1.70
651.00	1.70
651.20	1.71
651.40	1.71
651.60	1.71
651.80	1.71
652.00	1.71
652.20	1.71
652.40	1.71
652.60	1.71
652.80	1.71
653.00	1.71
653.20	1.71
653.40	1.71
653.60	1.71
653.80	1.71
654.00	1.71
654.20	1.71
654.40	1.71
654.60	1.71
654.80	1.72
655.00	1.72
655.20	1.72
655.40	1.72
655.60	1.72
655.80	1.72
656.00	1.72
656.20	1.72
656.40	1.72
656.60	1.72
656.80	1.72
657.00	1.72
657.20	1.72

657.40	1.72
657.60	1.72
657.80	1.72
658.00	1.72
658.20	1.73
658.40	1.73
658.60	1.73
658.80	1.73
659.00	1.73
659.20	1.73
659.40	1.73
659.60	1.73
659.80	1.73
660.00	1.73
660.20	1.73
660.40	1.73
660.60	1.73
660.80	1.73
661.00	1.73
661.20	1.73
661.40	1.73
661.60	1.74
661.80	1.74
662.00	1.74
662.20	1.74
662.40	1.74
662.60	1.74
662.80	1.74
663.00	1.74
663.20	1.74
663.40	1.74
663.60	1.74
663.80	1.74
664.00	1.74
664.20	1.74
664.40	1.74
664.60	1.74
664.80	1.74
665.00	1.75
665.20	1.75
665.40	1.75
665.60	1.75
665.80	1.75
666.00	1.75
666.20	1.75
666.40	1.75
666.60	1.75
666.80	1.75
667.00	1.75
667.20	1.75
667.40	1.75
667.60	1.75
667.80	1.75
668.00	1.75
668.20	1.75
668.40	1.76
668.60	1.76
668.80	1.76
669.00	1.76
669.20	1.76
669.40	1.76
669.60	1.76
669.80	1.76
670.00	1.76
670.20	1.76
670.40	1.76

670.60	1.76
670.80	1.76
671.00	1.76
671.20	1.76
671.40	1.76
671.60	1.76
671.80	1.77
672.00	1.77
672.20	1.77
672.40	1.77
672.60	1.77
672.80	1.77
673.00	1.77
673.20	1.77
673.40	1.77
673.60	1.77
673.80	1.77
674.00	1.77
674.20	1.77
674.40	1.77
674.60	1.77
674.80	1.77
675.00	1.78
675.20	1.78
675.40	1.78
675.60	1.78
675.80	1.78
676.00	1.78
676.20	1.78
676.40	1.78
676.60	1.78
676.80	1.78
677.00	1.78
677.20	1.78
677.40	1.78
677.60	1.78
677.80	1.78
678.00	1.78
678.20	1.79
678.40	1.79
678.60	1.79
678.80	1.79
679.00	1.79
679.20	1.79
679.40	1.79
679.60	1.79
679.80	1.79
680.00	1.79
680.20	1.79
680.40	1.79
680.60	1.79
680.80	1.79
681.00	1.79
681.20	1.79
681.40	1.80
681.60	1.80
681.80	1.80
682.00	1.80
682.20	1.80
682.40	1.80
682.60	1.80
682.80	1.80
683.00	1.80
683.20	1.80
683.40	1.80
683.60	1.80

683.80	1.80
684.00	1.80
684.20	1.80
684.40	1.80
684.60	1.81
684.80	1.81
685.00	1.81
685.20	1.81
685.40	1.81
685.60	1.81
685.80	1.81
686.00	1.81
686.20	1.81
686.40	1.81
686.60	1.81
686.80	1.81
687.00	1.81
687.20	1.81
687.40	1.81
687.60	1.82
687.80	1.82
688.00	1.82
688.20	1.82
688.40	1.82
688.60	1.82
688.80	1.82
689.00	1.82
689.20	1.82
689.40	1.82
689.60	1.82
689.80	1.82
690.00	1.82
690.20	1.82
690.40	1.82
690.60	1.83
690.80	1.83
691.00	1.83
691.20	1.83
691.40	1.83
691.60	1.83
691.80	1.83
692.00	1.83
692.20	1.83
692.40	1.83
692.60	1.83
692.80	1.83
693.00	1.83
693.20	1.83
693.40	1.83
693.60	1.84
693.80	1.84
694.00	1.84
694.20	1.84
694.40	1.84
694.60	1.84
694.80	1.84
695.00	1.84
695.20	1.84
695.40	1.84
695.60	1.84
695.80	1.84
696.00	1.84
696.20	1.84
696.40	1.84
696.60	1.85
696.80	1.85

697.00	1.85
697.20	1.85
697.40	1.85
697.60	1.85
697.80	1.85
698.00	1.85
698.20	1.85
698.40	1.85
698.60	1.85
698.80	1.85
699.00	1.85
699.20	1.85
699.40	1.85
699.60	1.86
699.80	1.86
700.00	1.86
700.20	1.86
700.40	1.86
700.60	1.86
700.80	1.86
701.00	1.86
701.20	1.86
701.40	1.86
701.60	1.86
701.80	1.86
702.00	1.86
702.20	1.86
702.40	1.86
702.60	1.87
702.80	1.87
703.00	1.87
703.20	1.87
703.40	1.87
703.60	1.87
703.80	1.87
704.00	1.87
704.20	1.87
704.40	1.87
704.60	1.87
704.80	1.87
705.00	1.87
705.20	1.87
705.40	1.88
705.60	1.88
705.80	1.88
706.00	1.88
706.20	1.88
706.40	1.88
706.60	1.88
706.80	1.88
707.00	1.88
707.20	1.88
707.40	1.88
707.60	1.88
707.80	1.88
708.00	1.88
708.20	1.89
708.40	1.89
708.60	1.89
708.80	1.89
709.00	1.89
709.20	1.89
709.40	1.89
709.60	1.89
709.80	1.89
710.00	1.89

710.20	1.89
710.40	1.89
710.60	1.89
710.80	1.89
711.00	1.90
711.20	1.90
711.40	1.90
711.60	1.90
711.80	1.90
712.00	1.90
712.20	1.90
712.40	1.90
712.60	1.90
712.80	1.90
713.00	1.90
713.20	1.90
713.40	1.90
713.60	1.90
713.80	1.91
714.00	1.91
714.20	1.91
714.40	1.91
714.60	1.91
714.80	1.91
715.00	1.91
715.20	1.91
715.40	1.91
715.60	1.91
715.80	1.91
716.00	1.91
716.20	1.91
716.40	1.91
716.60	1.92
716.80	1.92
717.00	1.92
717.20	1.92
717.40	1.92
717.60	1.92
717.80	1.92
718.00	1.92
718.20	1.92
718.40	1.92
718.60	1.92
718.80	1.92
719.00	1.92
719.20	1.93
719.40	1.93
719.60	1.93
719.80	1.93
720.00	1.93
720.20	1.93
720.40	1.93
720.60	1.93
720.80	1.93
721.00	1.93
721.20	1.93
721.40	1.93
721.60	1.93
721.80	1.93
722.00	1.94
722.20	1.94
722.40	1.94
722.60	1.94
722.80	1.94
723.00	1.94
723.20	1.94

723.40	1.94
723.60	1.94
723.80	1.94
724.00	1.94
724.20	1.94
724.40	1.94
724.60	1.95
724.80	1.95
725.00	1.95
725.20	1.95
725.40	1.95
725.60	1.95
725.80	1.95
726.00	1.95
726.20	1.95
726.40	1.95
726.60	1.95
726.80	1.95
727.00	1.95
727.20	1.96
727.40	1.96
727.60	1.96
727.80	1.96
728.00	1.96
728.20	1.96
728.40	1.96
728.60	1.96
728.80	1.96
729.00	1.96
729.20	1.96
729.40	1.96
729.60	1.96
729.80	1.97
730.00	1.97
730.20	1.97
730.40	1.97
730.60	1.97
730.80	1.97
731.00	1.97
731.20	1.97
731.40	1.97
731.60	1.97
731.80	1.97
732.00	1.97
732.20	1.97
732.40	1.98
732.60	1.98
732.80	1.98
733.00	1.98
733.20	1.98
733.40	1.98
733.60	1.98
733.80	1.98
734.00	1.98
734.20	1.98
734.40	1.98
734.60	1.98
734.80	1.98
735.00	1.99
735.20	1.99
735.40	1.99
735.60	1.99
735.80	1.99
736.00	1.99
736.20	1.99
736.40	1.99

736.60	1.99
736.80	1.99
737.00	1.99
737.20	1.99
737.40	2.00
737.60	2.00
737.80	2.00
738.00	2.00
738.20	2.00
738.40	2.00
738.60	2.00
738.80	2.00
739.00	2.00
739.20	2.00
739.40	2.00
739.60	2.00
739.80	2.00
740.00	2.01
740.20	2.01
740.40	2.01
740.60	2.01
740.80	2.01
741.00	2.01
741.20	2.01
741.40	2.01
741.60	2.01
741.80	2.01
742.00	2.01
742.20	2.01
742.40	2.02
742.60	2.02
742.80	2.02
743.00	2.02
743.20	2.02
743.40	2.02
743.60	2.02
743.80	2.02
744.00	2.02
744.20	2.02
744.40	2.02
744.60	2.02
744.80	2.03
745.00	2.03
745.20	2.03
745.40	2.03
745.60	2.03
745.80	2.03
746.00	2.03
746.20	2.03
746.40	2.03
746.60	2.03
746.80	2.03
747.00	2.03
747.20	2.04
747.40	2.04
747.60	2.04
747.80	2.04
748.00	2.04
748.20	2.04
748.40	2.04
748.60	2.04
748.80	2.04
749.00	2.04
749.20	2.04
749.40	2.04
749.60	2.05

749.80	2.05
750.00	2.05
750.20	2.05
750.40	2.05
750.60	2.05
750.80	2.05
751.00	2.05
751.20	2.05
751.40	2.05
751.60	2.05
751.80	2.05
752.00	2.06
752.20	2.06
752.40	2.06
752.60	2.06
752.80	2.06
753.00	2.06
753.20	2.06
753.40	2.06
753.60	2.06
753.80	2.06
754.00	2.06
754.20	2.07
754.40	2.07
754.60	2.07
754.80	2.07
755.00	2.07
755.20	2.07
755.40	2.07
755.60	2.07
755.80	2.07
756.00	2.07
756.20	2.07
756.40	2.07
756.60	2.08
756.80	2.08
757.00	2.08
757.20	2.08
757.40	2.08
757.60	2.08
757.80	2.08
758.00	2.08
758.20	2.08
758.40	2.08
758.60	2.08
758.80	2.09
759.00	2.09
759.20	2.09
759.40	2.09
759.60	2.09
759.80	2.09
760.00	2.09
760.20	2.09
760.40	2.09
760.60	2.09
760.80	2.09
761.00	2.10
761.20	2.10
761.40	2.10
761.60	2.10
761.80	2.10
762.00	2.10
762.20	2.10
762.40	2.10
762.60	2.10
762.80	2.10

763.00	2.10
763.20	2.11
763.40	2.11
763.60	2.11
763.80	2.11
764.00	2.11
764.20	2.11
764.40	2.11
764.60	2.11
764.80	2.11
765.00	2.11
765.20	2.11
765.40	2.12
765.60	2.12
765.80	2.12
766.00	2.12
766.20	2.12
766.40	2.12
766.60	2.12
766.80	2.12
767.00	2.12
767.20	2.12
767.40	2.12
767.60	2.13
767.80	2.13
768.00	2.13
768.20	2.13
768.40	2.13
768.60	2.13
768.80	2.13
769.00	2.13
769.20	2.13
769.40	2.13
769.60	2.13
769.80	2.14
770.00	2.14
770.20	2.14
770.40	2.14
770.60	2.14
770.80	2.14
771.00	2.14
771.20	2.14
771.40	2.14
771.60	2.14
771.80	2.14
772.00	2.15
772.20	2.15
772.40	2.15
772.60	2.15
772.80	2.15
773.00	2.15
773.20	2.15
773.40	2.15
773.60	2.15
773.80	2.15
774.00	2.16
774.20	2.16
774.40	2.16
774.60	2.16
774.80	2.16
775.00	2.16
775.20	2.16
775.40	2.16
775.60	2.16
775.80	2.16
776.00	2.16

776.20	2.17
776.40	2.17
776.60	2.17
776.80	2.17
777.00	2.17
777.20	2.17
777.40	2.17
777.60	2.17
777.80	2.17
778.00	2.17
778.20	2.18
778.40	2.18
778.60	2.18
778.80	2.18
779.00	2.18
779.20	2.18
779.40	2.18
779.60	2.18
779.80	2.18
780.00	2.18
780.20	2.19
780.40	2.19
780.60	2.19
780.80	2.19
781.00	2.19
781.20	2.19
781.40	2.19
781.60	2.19
781.80	2.19
782.00	2.19
782.20	2.20
782.40	2.20
782.60	2.20
782.80	2.20
783.00	2.20
783.20	2.20
783.40	2.20
783.60	2.20
783.80	2.20
784.00	2.20
784.20	2.21
784.40	2.21
784.60	2.21
784.80	2.21
785.00	2.21
785.20	2.21
785.40	2.21
785.60	2.21
785.80	2.21
786.00	2.21
786.20	2.22
786.40	2.22
786.60	2.22
786.80	2.22
787.00	2.22
787.20	2.22
787.40	2.22
787.60	2.22
787.80	2.22
788.00	2.22
788.20	2.23
788.40	2.23
788.60	2.23
788.80	2.23
789.00	2.23
789.20	2.23

789.40	2.23
789.60	2.23
789.80	2.23
790.00	2.23
790.20	2.24
790.40	2.24
790.60	2.24
790.80	2.24
791.00	2.24
791.20	2.24
791.40	2.24
791.60	2.24
791.80	2.24
792.00	2.25
792.20	2.25
792.40	2.25
792.60	2.25
792.80	2.25
793.00	2.25
793.20	2.25
793.40	2.25
793.60	2.25
793.80	2.25
794.00	2.26
794.20	2.26
794.40	2.26
794.60	2.26
794.80	2.26
795.00	2.26
795.20	2.26
795.40	2.26
795.60	2.26
795.80	2.27
796.00	2.27
796.20	2.27
796.40	2.27
796.60	2.27
796.80	2.27
797.00	2.27
797.20	2.27
797.40	2.27
797.60	2.27
797.80	2.28
798.00	2.28
798.20	2.28
798.40	2.28
798.60	2.28
798.80	2.28
799.00	2.28
799.20	2.28
799.40	2.28
799.60	2.29
799.80	2.29
800.00	2.29
800.20	2.29
800.40	2.29
800.60	2.29
800.80	2.29
801.00	2.29
801.20	2.29
801.40	2.30
801.60	2.30
801.80	2.30
802.00	2.30
802.20	2.30
802.40	2.30

802.60	2.30
802.80	2.30
803.00	2.30
803.20	2.31
803.40	2.31
803.60	2.31
803.80	2.31
804.00	2.31
804.20	2.31
804.40	2.31
804.60	2.31
804.80	2.31
805.00	2.32
805.20	2.32
805.40	2.32
805.60	2.32
805.80	2.32
806.00	2.32
806.20	2.32
806.40	2.32
806.60	2.32
806.80	2.33
807.00	2.33
807.20	2.33
807.40	2.33
807.60	2.33
807.80	2.33
808.00	2.33
808.20	2.33
808.40	2.33
808.60	2.34
808.80	2.34
809.00	2.34
809.20	2.34
809.40	2.34
809.60	2.34
809.80	2.34
810.00	2.34
810.20	2.34
810.40	2.35
810.60	2.35
810.80	2.35
811.00	2.35
811.20	2.35
811.40	2.35
811.60	2.35
811.80	2.35
812.00	2.36
812.20	2.36
812.40	2.36
812.60	2.36
812.80	2.36
813.00	2.36
813.20	2.36
813.40	2.36
813.60	2.36
813.80	2.37
814.00	2.37
814.20	2.37
814.40	2.37
814.60	2.37
814.80	2.37
815.00	2.37
815.20	2.37
815.40	2.38
815.60	2.38

815.80	2.38
816.00	2.38
816.20	2.38
816.40	2.38
816.60	2.38
816.80	2.38
817.00	2.38
817.20	2.39
817.40	2.39
817.60	2.39
817.80	2.39
818.00	2.39
818.20	2.39
818.40	2.39
818.60	2.39
818.80	2.40
819.00	2.40
819.20	2.40
819.40	2.40
819.60	2.40
819.80	2.40
820.00	2.40
820.20	2.40
820.40	2.41
820.60	2.41
820.80	2.41
821.00	2.41
821.20	2.41
821.40	2.41
821.60	2.41
821.80	2.41
822.00	2.42
822.20	2.42
822.40	2.42
822.60	2.42
822.80	2.42
823.00	2.42
823.20	2.42
823.40	2.42
823.60	2.42
823.80	2.43
824.00	2.43
824.20	2.43
824.40	2.43
824.60	2.43
824.80	2.43
825.00	2.43
825.20	2.43
825.40	2.44
825.60	2.44
825.80	2.44
826.00	2.44
826.20	2.44
826.40	2.44
826.60	2.44
826.80	2.44
827.00	2.45
827.20	2.45
827.40	2.45
827.60	2.45
827.80	2.45
828.00	2.45
828.20	2.45
828.40	2.46
828.60	2.46
828.80	2.46

829.00	2.46
829.20	2.46
829.40	2.46
829.60	2.46
829.80	2.46
830.00	2.47
830.20	2.47
830.40	2.47
830.60	2.47
830.80	2.47
831.00	2.47
831.20	2.47
831.40	2.47
831.60	2.48
831.80	2.48
832.00	2.48
832.20	2.48
832.40	2.48
832.60	2.48
832.80	2.48
833.00	2.48
833.20	2.49
833.40	2.49
833.60	2.49
833.80	2.49
834.00	2.49
834.20	2.49
834.40	2.49
834.60	2.50
834.80	2.50
835.00	2.50
835.20	2.50
835.40	2.50
835.60	2.50
835.80	2.50
836.00	2.50
836.20	2.51
836.40	2.51
836.60	2.51
836.80	2.51
837.00	2.51
837.20	2.51
837.40	2.51
837.60	2.51
837.80	2.51
838.00	2.52
838.20	2.52
838.40	2.52
838.60	2.52
838.80	2.52
839.00	2.52
839.20	2.52
839.40	2.52
839.60	2.52
839.80	2.52
840.00	2.53
840.20	2.53
840.40	2.53
840.60	2.53
840.80	2.53
841.00	2.53
841.20	2.53
841.40	2.53
841.60	2.53
841.80	2.53
842.00	2.54

842.20	2.54
842.40	2.54
842.60	2.54
842.80	2.54
843.00	2.54
843.20	2.54
843.40	2.54
843.60	2.54
843.80	2.54
844.00	2.55
844.20	2.55
844.40	2.55
844.60	2.55
844.80	2.55
845.00	2.55
845.20	2.55
845.40	2.55
845.60	2.55
845.80	2.55
846.00	2.56
846.20	2.56
846.40	2.56
846.60	2.56
846.80	2.56
847.00	2.56
847.20	2.56
847.40	2.56
847.60	2.56
847.80	2.56
848.00	2.57
848.20	2.57
848.40	2.57
848.60	2.57
848.80	2.57
849.00	2.57
849.20	2.57
849.40	2.57
849.60	2.57
849.80	2.57
850.00	2.58
850.20	2.58
850.40	2.58
850.60	2.58
850.80	2.58
851.00	2.58
851.20	2.58
851.40	2.58
851.60	2.58
851.80	2.59
852.00	2.59
852.20	2.59
852.40	2.59
852.60	2.59
852.80	2.59
853.00	2.59
853.20	2.59
853.40	2.59
853.60	2.59
853.80	2.60
854.00	2.60
854.20	2.60
854.40	2.60
854.60	2.60
854.80	2.60
855.00	2.60
855.20	2.60

855.40	2.60
855.60	2.61
855.80	2.61
856.00	2.61
856.20	2.61
856.40	2.61
856.60	2.61
856.80	2.61
857.00	2.61
857.20	2.61
857.40	2.62
857.60	2.62
857.80	2.62
858.00	2.62
858.20	2.62
858.40	2.62
858.60	2.62
858.80	2.62
859.00	2.62
859.20	2.62
859.40	2.63
859.60	2.63
859.80	2.63
860.00	2.63
860.20	2.63
860.40	2.63
860.60	2.63
860.80	2.63
861.00	2.63
861.20	2.64
861.40	2.64
861.60	2.64
861.80	2.64
862.00	2.64
862.20	2.64
862.40	2.64
862.60	2.64
862.80	2.64
863.00	2.65
863.20	2.65
863.40	2.65
863.60	2.65
863.80	2.65
864.00	2.65
864.20	2.65
864.40	2.65
864.60	2.65
864.80	2.66
865.00	2.66
865.20	2.66
865.40	2.66
865.60	2.66
865.80	2.66
866.00	2.66
866.20	2.66
866.40	2.66
866.60	2.67
866.80	2.67
867.00	2.67
867.20	2.67
867.40	2.67
867.60	2.67
867.80	2.67
868.00	2.67
868.20	2.68
868.40	2.68

868.60	2.68
868.80	2.68
869.00	2.68
869.20	2.68
869.40	2.68
869.60	2.68
869.80	2.68
870.00	2.69
870.20	2.69
870.40	2.69
870.60	2.69
870.80	2.69
871.00	2.69
871.20	2.69
871.40	2.69
871.60	2.69
871.80	2.70
872.00	2.70
872.20	2.70
872.40	2.70
872.60	2.70
872.80	2.70
873.00	2.70
873.20	2.70
873.40	2.71
873.60	2.71
873.80	2.71
874.00	2.71
874.20	2.71
874.40	2.71
874.60	2.71
874.80	2.71
875.00	2.72
875.20	2.72
875.40	2.72
875.60	2.72
875.80	2.72
876.00	2.72
876.20	2.72
876.40	2.72
876.60	2.72
876.80	2.73
877.00	2.73
877.20	2.73
877.40	2.73
877.60	2.73
877.80	2.73
878.00	2.73
878.20	2.73
878.40	2.74
878.60	2.74
878.80	2.74
879.00	2.74
879.20	2.74
879.40	2.74
879.60	2.74
879.80	2.74
880.00	2.75
880.20	2.75
880.40	2.75
880.60	2.75
880.80	2.75
881.00	2.75
881.20	2.75
881.40	2.75
881.60	2.76

881.80	2.76
882.00	2.76
882.20	2.76
882.40	2.76
882.60	2.76
882.80	2.76
883.00	2.76
883.20	2.77
883.40	2.77
883.60	2.77
883.80	2.77
884.00	2.77
884.20	2.77
884.40	2.77
884.60	2.77
884.80	2.78
885.00	2.78
885.20	2.78
885.40	2.78
885.60	2.78
885.80	2.78
886.00	2.78
886.20	2.78
886.40	2.79
886.60	2.79
886.80	2.79
887.00	2.79
887.20	2.79
887.40	2.79
887.60	2.79
887.80	2.80
888.00	2.80
888.20	2.80
888.40	2.80
888.60	2.80
888.80	2.80
889.00	2.80
889.20	2.80
889.40	2.81
889.60	2.81
889.80	2.81
890.00	2.81
890.20	2.81
890.40	2.81
890.60	2.81
890.80	2.81
891.00	2.82
891.20	2.82
891.40	2.82
891.60	2.82
891.80	2.82
892.00	2.82
892.20	2.82
892.40	2.83
892.60	2.83
892.80	2.83
893.00	2.83
893.20	2.83
893.40	2.83
893.60	2.83
893.80	2.83
894.00	2.84
894.20	2.84
894.40	2.84
894.60	2.84
894.80	2.84

895.00	2.84
895.20	2.84
895.40	2.85
895.60	2.85
895.80	2.85
896.00	2.85
896.20	2.85
896.40	2.85
896.60	2.85
896.80	2.86
897.00	2.86
897.20	2.86
897.40	2.86
897.60	2.86
897.80	2.86
898.00	2.86
898.20	2.86
898.40	2.87
898.60	2.87
898.80	2.87
899.00	2.87
899.20	2.87
899.40	2.87
899.60	2.87
899.80	2.88
900.00	2.88
900.20	2.88
900.40	2.88
900.60	2.88
900.80	2.88
901.00	2.88
901.20	2.89
901.40	2.89
901.60	2.89
901.80	2.89
902.00	2.89
902.20	2.89
902.40	2.89
902.60	2.90
902.80	2.90
903.00	2.90
903.20	2.90
903.40	2.90
903.60	2.90
903.80	2.90
904.00	2.91
904.20	2.91
904.40	2.91
904.60	2.91
904.80	2.91
905.00	2.91
905.20	2.91
905.40	2.92
905.60	2.92
905.80	2.92
906.00	2.92
906.20	2.92
906.40	2.92
906.60	2.92
906.80	2.93
907.00	2.93
907.20	2.93
907.40	2.93
907.60	2.93
907.80	2.93
908.00	2.94

908.20	2.94
908.40	2.94
908.60	2.94
908.80	2.94
909.00	2.94
909.20	2.94
909.40	2.95
909.60	2.95
909.80	2.95
910.00	2.95
910.20	2.95
910.40	2.95
910.60	2.95
910.80	2.96
911.00	2.96
911.20	2.96
911.40	2.96
911.60	2.96
911.80	2.96
912.00	2.97
912.20	2.97
912.40	2.97
912.60	2.97
912.80	2.97
913.00	2.97
913.20	2.97
913.40	2.98
913.60	2.98
913.80	2.98
914.00	2.98
914.20	2.98
914.40	2.98
914.60	2.99
914.80	2.99
915.00	2.99
915.20	2.99
915.40	2.99
915.60	2.99
915.80	2.99
916.00	3.00
916.20	3.00
916.40	3.00
916.60	3.00
916.80	3.00
917.00	3.00
917.20	3.01
917.40	3.01
917.60	3.01
917.80	3.01
918.00	3.01
918.20	3.01
918.40	3.02
918.60	3.02
918.80	3.02
919.00	3.02
919.20	3.02
919.40	3.02
919.60	3.02
919.80	3.03
920.00	3.03
920.20	3.03
920.40	3.03
920.60	3.03
920.80	3.03
921.00	3.04
921.20	3.04

921.40	3.04
921.60	3.04
921.80	3.04
922.00	3.04
922.20	3.05
922.40	3.05
922.60	3.05
922.80	3.05
923.00	3.05
923.20	3.05
923.40	3.06
923.60	3.06
923.80	3.06
924.00	3.06
924.20	3.06
924.40	3.06
924.60	3.07
924.80	3.07
925.00	3.07
925.20	3.07
925.40	3.07
925.60	3.07
925.80	3.08
926.00	3.08
926.20	3.08
926.40	3.08
926.60	3.08
926.80	3.08
927.00	3.09
927.20	3.09
927.40	3.09
927.60	3.09
927.80	3.09
928.00	3.09
928.20	3.10
928.40	3.10
928.60	3.10
928.80	3.10
929.00	3.10
929.20	3.10
929.40	3.11
929.60	3.11
929.80	3.11
930.00	3.11
930.20	3.11
930.40	3.12
930.60	3.12
930.80	3.12
931.00	3.12
931.20	3.12
931.40	3.12
931.60	3.13
931.80	3.13
932.00	3.13
932.20	3.13
932.40	3.13
932.60	3.13
932.80	3.14
933.00	3.14
933.20	3.14
933.40	3.14
933.60	3.14
933.80	3.15
934.00	3.15
934.20	3.15
934.40	3.15

934.60	3.15
934.80	3.15
935.00	3.16
935.20	3.16
935.40	3.16
935.60	3.16
935.80	3.16
936.00	3.17
936.20	3.17
936.40	3.17
936.60	3.17
936.80	3.17
937.00	3.17
937.20	3.18
937.40	3.18
937.60	3.18
937.80	3.18
938.00	3.18
938.20	3.19
938.40	3.19
938.60	3.19
938.80	3.19
939.00	3.19
939.20	3.19
939.40	3.20
939.60	3.20
939.80	3.20
940.00	3.20
940.20	3.20
940.40	3.21
940.60	3.21
940.80	3.21
941.00	3.21
941.20	3.21
941.40	3.22
941.60	3.22
941.80	3.22
942.00	3.22
942.20	3.22
942.40	3.22
942.60	3.23
942.80	3.23
943.00	3.23
943.20	3.23
943.40	3.23
943.60	3.24
943.80	3.24
944.00	3.24
944.20	3.24
944.40	3.24
944.60	3.25
944.80	3.25
945.00	3.25
945.20	3.25
945.40	3.25
945.60	3.26
945.80	3.26
946.00	3.26
946.20	3.26
946.40	3.26
946.60	3.27
946.80	3.27
947.00	3.27
947.20	3.27
947.40	3.27
947.60	3.28

947.80	3.28
948.00	3.28
948.20	3.28
948.40	3.28
948.60	3.29
948.80	3.29
949.00	3.29
949.20	3.29
949.40	3.29
949.60	3.30
949.80	3.30
950.00	3.30
950.20	3.30
950.40	3.30
950.60	3.31
950.80	3.31
951.00	3.31
951.20	3.31
951.40	3.31
951.60	3.32
951.80	3.32
952.00	3.32
952.20	3.32
952.40	3.32
952.60	3.33
952.80	3.33
953.00	3.33
953.20	3.33
953.40	3.33
953.60	3.34
953.80	3.34
954.00	3.34
954.20	3.34
954.40	3.35
954.60	3.35
954.80	3.35
955.00	3.35
955.20	3.35
955.40	3.36
955.60	3.36
955.80	3.36
956.00	3.36
956.20	3.36
956.40	3.37
956.60	3.37
956.80	3.37
957.00	3.37
957.20	3.38
957.40	3.38
957.60	3.38
957.80	3.38
958.00	3.38
958.20	3.39
958.40	3.39
958.60	3.39
958.80	3.39
959.00	3.39
959.20	3.40
959.40	3.40
959.60	3.40
959.80	3.40
960.00	3.41
960.20	3.41
960.40	3.41
960.60	3.41
960.80	3.41

961.00	3.42
961.20	3.42
961.40	3.42
961.60	3.42
961.80	3.43
962.00	3.43
962.20	3.43
962.40	3.43
962.60	3.44
962.80	3.44
963.00	3.44
963.20	3.44
963.40	3.44
963.60	3.45
963.80	3.45
964.00	3.45
964.20	3.45
964.40	3.46
964.60	3.46
964.80	3.46
965.00	3.46
965.20	3.46
965.40	3.47
965.60	3.47
965.80	3.47
966.00	3.47
966.20	3.48
966.40	3.48
966.60	3.48
966.80	3.48
967.00	3.49
967.20	3.49
967.40	3.49
967.60	3.49
967.80	3.50
968.00	3.50
968.20	3.50
968.40	3.50
968.60	3.50
968.80	3.51
969.00	3.51
969.20	3.51
969.40	3.51
969.60	3.52
969.80	3.52
970.00	3.52
970.20	3.52
970.40	3.53
970.60	3.53
970.80	3.53
971.00	3.53
971.20	3.54
971.40	3.54
971.60	3.54
971.80	3.54
972.00	3.55
972.20	3.55
972.40	3.55
972.60	3.55
972.80	3.56
973.00	3.56
973.20	3.56
973.40	3.56
973.60	3.57
973.80	3.57
974.00	3.57

974.20	3.57
974.40	3.58
974.60	3.58
974.80	3.58
975.00	3.58
975.20	3.59
975.40	3.59
975.60	3.59
975.80	3.59
976.00	3.60
976.20	3.60
976.40	3.60
976.60	3.60
976.80	3.61
977.00	3.61
977.20	3.61
977.40	3.61
977.60	3.62
977.80	3.62
978.00	3.62
978.20	3.63
978.40	3.63
978.60	3.63
978.80	3.63
979.00	3.64
979.20	3.64
979.40	3.64
979.60	3.64
979.80	3.65
980.00	3.65
980.20	3.65
980.40	3.65
980.60	3.66
980.80	3.66
981.00	3.66
981.20	3.67
981.40	3.67
981.60	3.67
981.80	3.67
982.00	3.68
982.20	3.68
982.40	3.68
982.60	3.68
982.80	3.69
983.00	3.69
983.20	3.69
983.40	3.69
983.60	3.70
983.80	3.70
984.00	3.70
984.20	3.71
984.40	3.71
984.60	3.71
984.80	3.71
985.00	3.72
985.20	3.72
985.40	3.72
985.60	3.73
985.80	3.73
986.00	3.73
986.20	3.73
986.40	3.74
986.60	3.74
986.80	3.74
987.00	3.75
987.20	3.75

987.40	3.75
987.60	3.75
987.80	3.76
988.00	3.76
988.20	3.76
988.40	3.77
988.60	3.77
988.80	3.77
989.00	3.77
989.20	3.78
989.40	3.78
989.60	3.78
989.80	3.79
990.00	3.79
990.20	3.79
990.40	3.79
990.60	3.80
990.80	3.80
991.00	3.80
991.20	3.81
991.40	3.81
991.60	3.81
991.80	3.82
992.00	3.82
992.20	3.82
992.40	3.82
992.60	3.83
992.80	3.83
993.00	3.83
993.20	3.84
993.40	3.84
993.60	3.84
993.80	3.85
994.00	3.85
994.20	3.85
994.40	3.86
994.60	3.86
994.80	3.86
995.00	3.86
995.20	3.87
995.40	3.87
995.60	3.87
995.80	3.88
996.00	3.88
996.20	3.88
996.40	3.89
996.60	3.89
996.80	3.89
997.00	3.90
997.20	3.90
997.40	3.90
997.60	3.91
997.80	3.91
998.00	3.91
998.20	3.92
998.40	3.92
998.60	3.92
998.80	3.92
999.00	3.93
999.20	3.93
999.40	3.93
999.60	3.94
999.80	3.94
1000.00	3.94
1000.20	3.95
1000.40	3.95

1000.60	3.95
1000.80	3.96
1001.00	3.96
1001.20	3.96
1001.40	3.97
1001.60	3.97
1001.80	3.97
1002.00	3.98
1002.20	3.98
1002.40	3.98
1002.60	3.99
1002.80	3.99
1003.00	3.99
1003.20	4.00
1003.40	4.00
1003.60	4.00
1003.80	4.01
1004.00	4.01
1004.20	4.01
1004.40	4.02
1004.60	4.02
1004.80	4.03
1005.00	4.03
1005.20	4.03
1005.40	4.04
1005.60	4.04
1005.80	4.04
1006.00	4.05
1006.20	4.05
1006.40	4.05
1006.60	4.06
1006.80	4.06
1007.00	4.06
1007.20	4.07
1007.40	4.07
1007.60	4.07
1007.80	4.08
1008.00	4.08
1008.20	4.09
1008.40	4.09
1008.60	4.09
1008.80	4.10
1009.00	4.10
1009.20	4.10
1009.40	4.11
1009.60	4.11
1009.80	4.11
1010.00	4.12
1010.20	4.12
1010.40	4.13
1010.60	4.13
1010.80	4.13
1011.00	4.14
1011.20	4.14
1011.40	4.14
1011.60	4.15
1011.80	4.15
1012.00	4.16
1012.20	4.16
1012.40	4.16
1012.60	4.17
1012.80	4.17
1013.00	4.17
1013.20	4.18
1013.40	4.18
1013.60	4.19

1013.80	4.19
1014.00	4.19
1014.20	4.20
1014.40	4.20
1014.60	4.21
1014.80	4.21
1015.00	4.21
1015.20	4.22
1015.40	4.22
1015.60	4.22
1015.80	4.23
1016.00	4.23
1016.20	4.24
1016.40	4.24
1016.60	4.24
1016.80	4.25
1017.00	4.25
1017.20	4.26
1017.40	4.26
1017.60	4.26
1017.80	4.27
1018.00	4.27
1018.20	4.28
1018.40	4.28
1018.60	4.28
1018.80	4.29
1019.00	4.29
1019.20	4.30
1019.40	4.30
1019.60	4.31
1019.80	4.31
1020.00	4.31
1020.20	4.32
1020.40	4.32
1020.60	4.33
1020.80	4.33
1021.00	4.33
1021.20	4.34
1021.40	4.34
1021.60	4.35
1021.80	4.35
1022.00	4.36
1022.20	4.36
1022.40	4.36
1022.60	4.37
1022.80	4.37
1023.00	4.38
1023.20	4.38
1023.40	4.39
1023.60	4.39
1023.80	4.39
1024.00	4.40
1024.20	4.40
1024.40	4.41
1024.60	4.41
1024.80	4.42
1025.00	4.42
1025.20	4.43
1025.40	4.43
1025.60	4.43
1025.80	4.44
1026.00	4.44
1026.20	4.45
1026.40	4.45
1026.60	4.46
1026.80	4.46

1027.00	4.47
1027.20	4.47
1027.40	4.47
1027.60	4.48
1027.80	4.48
1028.00	4.49
1028.20	4.49
1028.40	4.50
1028.60	4.50
1028.80	4.51
1029.00	4.51
1029.20	4.52
1029.40	4.52
1029.60	4.53
1029.80	4.53
1030.00	4.54
1030.20	4.54
1030.40	4.55
1030.60	4.55
1030.80	4.55
1031.00	4.56
1031.20	4.56
1031.40	4.57
1031.60	4.57
1031.80	4.58
1032.00	4.58
1032.20	4.59
1032.40	4.59
1032.60	4.60
1032.80	4.60
1033.00	4.61
1033.20	4.61
1033.40	4.62
1033.60	4.62
1033.80	4.63
1034.00	4.63
1034.20	4.64
1034.40	4.64
1034.60	4.65
1034.80	4.65
1035.00	4.66
1035.20	4.66
1035.40	4.67
1035.60	4.67
1035.80	4.68
1036.00	4.68
1036.20	4.69
1036.40	4.69
1036.60	4.70
1036.80	4.70
1037.00	4.71
1037.20	4.72
1037.40	4.72
1037.60	4.73
1037.80	4.73
1038.00	4.74
1038.20	4.74
1038.40	4.75
1038.60	4.75
1038.80	4.76
1039.00	4.76
1039.20	4.77
1039.40	4.77
1039.60	4.78
1039.80	4.78
1040.00	4.79

1040.20	4.80
1040.40	4.80
1040.60	4.81
1040.80	4.81
1041.00	4.82
1041.20	4.82
1041.40	4.83
1041.60	4.83
1041.80	4.84
1042.00	4.85
1042.20	4.85
1042.40	4.86
1042.60	4.86
1042.80	4.87
1043.00	4.87
1043.20	4.88
1043.40	4.89
1043.60	4.89
1043.80	4.90
1044.00	4.90
1044.20	4.91
1044.40	4.92
1044.60	4.92
1044.80	4.93
1045.00	4.93
1045.20	4.94
1045.40	4.94
1045.60	4.95
1045.80	4.96
1046.00	4.96
1046.20	4.97
1046.40	4.97
1046.60	4.98
1046.80	4.99
1047.00	4.99
1047.20	5.00
1047.40	5.00
1047.60	5.01
1047.80	5.02
1048.00	5.02
1048.20	5.03
1048.40	5.04
1048.60	5.04
1048.80	5.05
1049.00	5.05
1049.20	5.06
1049.40	5.07
1049.60	5.07
1049.80	5.08
1050.00	5.09
1050.20	5.09
1050.40	5.10
1050.60	5.11
1050.80	5.11
1051.00	5.12
1051.20	5.13
1051.40	5.13
1051.60	5.14
1051.80	5.14
1052.00	5.15
1052.20	5.16
1052.40	5.16
1052.60	5.17
1052.80	5.18
1053.00	5.18
1053.20	5.19

1053.40	5.20
1053.60	5.21
1053.80	5.21
1054.00	5.22
1054.20	5.23
1054.40	5.23
1054.60	5.24
1054.80	5.25
1055.00	5.25
1055.20	5.26
1055.40	5.27
1055.60	5.27
1055.80	5.28
1056.00	5.29
1056.20	5.30
1056.40	5.30
1056.60	5.31
1056.80	5.32
1057.00	5.32
1057.20	5.33
1057.40	5.34
1057.60	5.35
1057.80	5.35
1058.00	5.36
1058.20	5.37
1058.40	5.37
1058.60	5.38
1058.80	5.39
1059.00	5.39
1059.20	5.40
1059.40	5.41
1059.60	5.41
1059.80	5.42
1060.00	5.42
1060.20	5.43
1060.40	5.44
1060.60	5.44
1060.80	5.45
1061.00	5.46
1061.20	5.46
1061.40	5.47
1061.60	5.48
1061.80	5.48
1062.00	5.49
1062.20	5.49
1062.40	5.50
1062.60	5.51
1062.80	5.51
1063.00	5.52
1063.20	5.53
1063.40	5.53
1063.60	5.54
1063.80	5.55
1064.00	5.55
1064.20	5.56
1064.40	5.57
1064.60	5.57
1064.80	5.58
1065.00	5.59
1065.20	5.60
1065.40	5.60
1065.60	5.61
1065.80	5.62
1066.00	5.62
1066.20	5.63
1066.40	5.64

1066.60	5.64
1066.80	5.65
1067.00	5.66
1067.20	5.67
1067.40	5.67
1067.60	5.68
1067.80	5.69
1068.00	5.69
1068.20	5.70
1068.40	5.71
1068.60	5.72
1068.80	5.72
1069.00	5.73
1069.20	5.74
1069.40	5.75
1069.60	5.75
1069.80	5.76
1070.00	5.77
1070.20	5.78
1070.40	5.78
1070.60	5.79
1070.80	5.80
1071.00	5.81
1071.20	5.81
1071.40	5.82
1071.60	5.83
1071.80	5.84
1072.00	5.84
1072.20	5.85
1072.40	5.86
1072.60	5.87
1072.80	5.88
1073.00	5.88
1073.20	5.89
1073.40	5.90
1073.60	5.91
1073.80	5.92
1074.00	5.92
1074.20	5.93
1074.40	5.94
1074.60	5.95
1074.80	5.96
1075.00	5.97
1075.20	5.97
1075.40	5.98
1075.60	5.99
1075.80	6.00
1076.00	6.01
1076.20	6.02
1076.40	6.02
1076.60	6.03
1076.80	6.04
1077.00	6.05
1077.20	6.06
1077.40	6.07
1077.60	6.08
1077.80	6.08
1078.00	6.09
1078.20	6.10
1078.40	6.11
1078.60	6.12
1078.80	6.13
1079.00	6.14
1079.20	6.15
1079.40	6.16
1079.60	6.17

1079.80	6.17
1080.00	6.18
1080.20	6.19
1080.40	6.20
1080.60	6.21
1080.80	6.22
1081.00	6.23
1081.20	6.24
1081.40	6.25
1081.60	6.26
1081.80	6.27
1082.00	6.28
1082.20	6.29
1082.40	6.30
1082.60	6.31
1082.80	6.32
1083.00	6.33
1083.20	6.34
1083.40	6.35
1083.60	6.36
1083.80	6.37
1084.00	6.38
1084.20	6.39
1084.40	6.40
1084.60	6.41
1084.80	6.42
1085.00	6.43
1085.20	6.44
1085.40	6.45
1085.60	6.46
1085.80	6.47
1086.00	6.48
1086.20	6.49
1086.40	6.50
1086.60	6.51
1086.80	6.52
1087.00	6.53
1087.20	6.54
1087.40	6.55
1087.60	6.56
1087.80	6.57
1088.00	6.59
1088.20	6.60
1088.40	6.61
1088.60	6.62
1088.80	6.63
1089.00	6.64
1089.20	6.65
1089.40	6.66
1089.60	6.67
1089.80	6.69
1090.00	6.70
1090.20	6.71
1090.40	6.72
1090.60	6.73
1090.80	6.74
1091.00	6.76
1091.20	6.77
1091.40	6.78
1091.60	6.79
1091.80	6.80
1092.00	6.82
1092.20	6.83
1092.40	6.84
1092.60	6.85
1092.80	6.87

1093.00	6.88
1093.20	6.89
1093.40	6.90
1093.60	6.92
1093.80	6.93
1094.00	6.94
1094.20	6.95
1094.40	6.97
1094.60	6.98
1094.80	6.99
1095.00	7.01
1095.20	7.02
1095.40	7.03
1095.60	7.04
1095.80	7.06
1096.00	7.07
1096.20	7.09
1096.40	7.10
1096.60	7.11
1096.80	7.13
1097.00	7.14
1097.20	7.15
1097.40	7.17
1097.60	7.18
1097.80	7.20
1098.00	7.21
1098.20	7.22
1098.40	7.24
1098.60	7.25
1098.80	7.27
1099.00	7.28
1099.20	7.30
1099.40	7.31
1099.60	7.33
1099.80	7.34
1100.00	7.36
1100.20	7.37
1100.40	7.39
1100.60	7.40
1100.80	7.42
1101.00	7.43
1101.20	7.45
1101.40	7.46
1101.60	7.48
1101.80	7.50
1102.00	7.51
1102.20	7.53
1102.40	7.54
1102.60	7.56
1102.80	7.58
1103.00	7.59
1103.20	7.61
1103.40	7.63
1103.60	7.64
1103.80	7.66
1104.00	7.68
1104.20	7.69
1104.40	7.71
1104.60	7.73
1104.80	7.75
1105.00	7.76
1105.20	7.78
1105.40	7.80
1105.60	7.82
1105.80	7.84
1106.00	7.85

1106.20	7.87
1106.40	7.89
1106.60	7.91
1106.80	7.93
1107.00	7.95
1107.20	7.96
1107.40	7.98
1107.60	8.00
1107.80	8.02
1108.00	8.04
1108.20	8.06
1108.40	8.08
1108.60	8.10
1108.80	8.12
1109.00	8.14
1109.20	8.16
1109.40	8.18
1109.60	8.20
1109.80	8.22
1110.00	8.24
1110.20	8.26
1110.40	8.28
1110.60	8.30
1110.80	8.33
1111.00	8.35
1111.20	8.37
1111.40	8.39
1111.60	8.41
1111.80	8.44
1112.00	8.46
1112.20	8.48
1112.40	8.50
1112.60	8.53
1112.80	8.55
1113.00	8.57
1113.20	8.60
1113.40	8.62
1113.60	8.64
1113.80	8.67
1114.00	8.69
1114.20	8.71
1114.40	8.74
1114.60	8.76
1114.80	8.79
1115.00	8.81
1115.20	8.84
1115.40	8.86
1115.60	8.89
1115.80	8.92
1116.00	8.94
1116.20	8.97
1116.40	8.99
1116.60	9.02
1116.80	9.05
1117.00	9.08
1117.20	9.10
1117.40	9.13
1117.60	9.16
1117.80	9.19
1118.00	9.21
1118.20	9.24
1118.40	9.27
1118.60	9.30
1118.80	9.33
1119.00	9.36
1119.20	9.39

1119.40	9.42
1119.60	9.45
1119.80	9.48
1120.00	9.51
1120.20	9.54
1120.40	9.58
1120.60	9.61
1120.80	9.64
1121.00	9.67
1121.20	9.71
1121.40	9.74
1121.60	9.77
1121.80	9.81
1122.00	9.84
1122.20	9.87
1122.40	9.91
1122.60	9.94
1122.80	9.98
1123.00	10.01
1123.20	10.05
1123.40	10.09
1123.60	10.12
1123.80	10.16
1124.00	10.20
1124.20	10.24
1124.40	10.28
1124.60	10.31
1124.80	10.35
1125.00	10.39
1125.20	10.43
1125.40	10.47
1125.60	10.52
1125.80	10.56
1126.00	10.60
1126.20	10.64
1126.40	10.68
1126.60	10.73
1126.80	10.77
1127.00	10.82
1127.20	10.86
1127.40	10.91
1127.60	10.95
1127.80	11.00
1128.00	11.05
1128.20	11.09
1128.40	11.14
1128.60	11.19
1128.80	11.24
1129.00	11.29
1129.20	11.34
1129.40	11.39
1129.60	11.44
1129.80	11.50
1130.00	11.55
1130.20	11.60
1130.40	11.66
1130.60	11.71
1130.80	11.77
1131.00	11.82
1131.20	11.88
1131.40	11.94
1131.60	12.00
1131.80	12.06
1132.00	12.12
1132.20	12.18
1132.40	12.24

1132.60	12.31
1132.80	12.37
1133.00	12.44
1133.20	12.50
1133.40	12.57
1133.60	12.64
1133.80	12.71
1134.00	12.78
1134.20	12.85
1134.40	12.91
1134.60	12.97
1134.80	13.04
1135.00	13.10
1135.20	13.17
1135.40	13.24
1135.60	13.31
1135.80	13.38
1136.00	13.45
1136.20	13.52
1136.40	13.59
1136.60	13.66
1136.80	13.74
1137.00	13.82
1137.20	13.89
1137.40	13.97
1137.60	14.05
1137.80	14.14
1138.00	14.22
1138.20	14.30
1138.40	14.39
1138.60	14.48
1138.80	14.57
1139.00	14.66
1139.20	14.75
1139.40	14.85
1139.60	14.94
1139.80	15.04
1140.00	15.14
1140.20	15.25
1140.40	15.35
1140.60	15.46
1140.80	15.57
1141.00	15.68
1141.20	15.79
1141.40	15.91
1141.60	16.03
1141.80	16.15
1142.00	16.28
1142.20	16.41
1142.40	16.54
1142.60	16.67
1142.80	16.81
1143.00	16.95
1143.20	17.10
1143.40	17.24
1143.60	17.40
1143.80	17.55
1144.00	17.72
1144.20	17.88
1144.40	18.05
1144.60	18.23
1144.80	18.41
1145.00	18.60
1145.20	18.79
1145.40	18.99
1145.60	19.19

1145.80	19.41
1146.00	19.63
1146.20	19.86
1146.40	20.09
1146.60	20.34
1146.80	20.60
1147.00	20.86
1147.20	21.14
1147.40	21.43
1147.60	21.73
1147.80	22.05
1148.00	22.38
1148.20	22.73
1148.40	23.06
1148.60	23.41
1148.80	23.78
1149.00	24.17
1149.20	24.58
1149.40	25.02
1149.60	25.49
1149.80	26.00
1150.00	26.54
1150.20	27.13
1150.40	27.78
1150.60	28.48
1150.80	29.27
1151.00	30.17
1151.20	31.20
1151.40	32.42
1151.60	33.95
1151.80	36.06
1152.00	41.22
1152.20	43.69
1152.40	44.51
1152.60	45.05
1152.80	45.43
1153.00	45.70
1153.20	45.90
1153.40	46.04
1153.60	46.14
1153.80	46.19
1154.00	46.21
1154.20	46.19
1154.40	46.15
1154.60	46.08
1154.80	45.98
1155.00	45.87
1155.20	45.73
1155.40	45.57
1155.60	45.39
1155.80	45.20
1156.00	44.98
1156.20	44.74
1156.40	44.49
1156.60	44.22
1156.80	43.93
1157.00	43.62
1157.20	43.30
1157.40	42.95
1157.60	42.59
1157.80	42.20
1158.00	41.80
1158.20	41.37
1158.40	40.92
1158.60	40.45
1158.80	39.95

1159.00	39.43
1159.20	38.88
1159.40	38.29
1159.60	37.67
1159.80	37.01
1160.00	36.27
1160.20	35.47
1160.40	34.62
1160.60	33.69
1160.80	32.69
1161.00	31.59
1161.20	30.36
1161.40	28.95
1161.60	27.26
1161.80	25.06
1162.00	19.68
1162.20	17.02
1162.40	16.00
1162.60	15.27
1162.80	14.68
1163.00	14.19
1163.20	13.76
1163.40	13.38
1163.60	13.04
1163.80	12.72
1164.00	12.39
1164.20	12.09
1164.40	11.82
1164.60	11.56
1164.80	11.32
1165.00	11.10
1165.20	10.89
1165.40	10.69
1165.60	10.50
1165.80	10.33
1166.00	10.16
1166.20	10.00
1166.40	9.85
1166.60	9.70
1166.80	9.56
1167.00	9.43
1167.20	9.30
1167.40	9.18
1167.60	9.06
1167.80	8.95
1168.00	8.84
1168.20	8.73
1168.40	8.63
1168.60	8.53
1168.80	8.44
1169.00	8.35
1169.20	8.26
1169.40	8.17
1169.60	8.09
1169.80	8.01
1170.00	7.93
1170.20	7.85
1170.40	7.78
1170.60	7.71
1170.80	7.64
1171.00	7.57
1171.20	7.50
1171.40	7.44
1171.60	7.37
1171.80	7.31
1172.00	7.25

1172.20	7.19
1172.40	7.14
1172.60	7.08
1172.80	7.02
1173.00	6.97
1173.20	6.92
1173.40	6.87
1173.60	6.82
1173.80	6.77
1174.00	6.72
1174.20	6.67
1174.40	6.63
1174.60	6.58
1174.80	6.54
1175.00	6.49
1175.20	6.45
1175.40	6.41
1175.60	6.37
1175.80	6.33
1176.00	6.29
1176.20	6.25
1176.40	6.21
1176.60	6.17
1176.80	6.14
1177.00	6.10
1177.20	6.07
1177.40	6.03
1177.60	6.00
1177.80	5.96
1178.00	5.93
1178.20	5.90
1178.40	5.86
1178.60	5.83
1178.80	5.80
1179.00	5.77
1179.20	5.74
1179.40	5.71
1179.60	5.68
1179.80	5.65
1180.00	5.62
1180.20	5.60
1180.40	5.57
1180.60	5.54
1180.80	5.51
1181.00	5.49
1181.20	5.46
1181.40	5.44
1181.60	5.41
1181.80	5.38
1182.00	5.36
1182.20	5.33
1182.40	5.30
1182.60	5.27
1182.80	5.24
1183.00	5.22
1183.20	5.19
1183.40	5.16
1183.60	5.13
1183.80	5.11
1184.00	5.08
1184.20	5.06
1184.40	5.03
1184.60	5.01
1184.80	4.98
1185.00	4.96
1185.20	4.93

1185.40	4.91
1185.60	4.89
1185.80	4.86
1186.00	4.84
1186.20	4.82
1186.40	4.80
1186.60	4.77
1186.80	4.75
1187.00	4.73
1187.20	4.71
1187.40	4.69
1187.60	4.67
1187.80	4.65
1188.00	4.63
1188.20	4.61
1188.40	4.59
1188.60	4.57
1188.80	4.55
1189.00	4.53
1189.20	4.51
1189.40	4.49
1189.60	4.47
1189.80	4.45
1190.00	4.44
1190.20	4.42
1190.40	4.40
1190.60	4.38
1190.80	4.37
1191.00	4.35
1191.20	4.33
1191.40	4.32
1191.60	4.30
1191.80	4.28
1192.00	4.27
1192.20	4.25
1192.40	4.23
1192.60	4.22
1192.80	4.20
1193.00	4.19
1193.20	4.17
1193.40	4.16
1193.60	4.14
1193.80	4.13
1194.00	4.11
1194.20	4.10
1194.40	4.08
1194.60	4.07
1194.80	4.05
1195.00	4.04
1195.20	4.03
1195.40	4.01
1195.60	4.00
1195.80	3.98
1196.00	3.97
1196.20	3.96
1196.40	3.94
1196.60	3.93
1196.80	3.92
1197.00	3.91
1197.20	3.89
1197.40	3.88
1197.60	3.87
1197.80	3.85
1198.00	3.84
1198.20	3.83
1198.40	3.82

1198.60	3.81
1198.80	3.79
1199.00	3.78
1199.20	3.77
1199.40	3.76
1199.60	3.75
1199.80	3.74
1200.00	3.72
1200.20	3.71
1200.40	3.70
1200.60	3.69
1200.80	3.68
1201.00	3.67
1201.20	3.66
1201.40	3.65
1201.60	3.64
1201.80	3.63
1202.00	3.62
1202.20	3.61
1202.40	3.60
1202.60	3.59
1202.80	3.58
1203.00	3.56
1203.20	3.55
1203.40	3.54
1203.60	3.54
1203.80	3.53
1204.00	3.52
1204.20	3.51
1204.40	3.50
1204.60	3.49
1204.80	3.48
1205.00	3.47
1205.20	3.46
1205.40	3.45
1205.60	3.44
1205.80	3.43
1206.00	3.42
1206.20	3.41
1206.40	3.40
1206.60	3.40
1206.80	3.39
1207.00	3.38
1207.20	3.37
1207.40	3.36
1207.60	3.35
1207.80	3.34
1208.00	3.34
1208.20	3.33
1208.40	3.32
1208.60	3.31
1208.80	3.30
1209.00	3.29
1209.20	3.29
1209.40	3.28
1209.60	3.27
1209.80	3.26
1210.00	3.25
1210.20	3.25
1210.40	3.24
1210.60	3.23
1210.80	3.22
1211.00	3.22
1211.20	3.21
1211.40	3.20
1211.60	3.19

1211.80	3.19
1212.00	3.18
1212.20	3.17
1212.40	3.16
1212.60	3.16
1212.80	3.15
1213.00	3.14
1213.20	3.13
1213.40	3.13
1213.60	3.12
1213.80	3.11
1214.00	3.11
1214.20	3.10
1214.40	3.09
1214.60	3.09
1214.80	3.08
1215.00	3.07
1215.20	3.07
1215.40	3.06
1215.60	3.05
1215.80	3.05
1216.00	3.04
1216.20	3.03
1216.40	3.03
1216.60	3.02
1216.80	3.01
1217.00	3.01
1217.20	3.00
1217.40	2.99
1217.60	2.99
1217.80	2.98
1218.00	2.98
1218.20	2.97
1218.40	2.96
1218.60	2.96
1218.80	2.95
1219.00	2.95
1219.20	2.94
1219.40	2.93
1219.60	2.93
1219.80	2.92
1220.00	2.92
1220.20	2.91
1220.40	2.90
1220.60	2.90
1220.80	2.89
1221.00	2.89
1221.20	2.88
1221.40	2.88
1221.60	2.87
1221.80	2.86
1222.00	2.86
1222.20	2.85
1222.40	2.85
1222.60	2.84
1222.80	2.84
1223.00	2.83
1223.20	2.83
1223.40	2.82
1223.60	2.82
1223.80	2.81
1224.00	2.81
1224.20	2.80
1224.40	2.79
1224.60	2.79
1224.80	2.78

1225.00	2.78
1225.20	2.77
1225.40	2.77
1225.60	2.76
1225.80	2.76
1226.00	2.75
1226.20	2.75
1226.40	2.74
1226.60	2.74
1226.80	2.73
1227.00	2.73
1227.20	2.72
1227.40	2.72
1227.60	2.71
1227.80	2.71
1228.00	2.71
1228.20	2.70
1228.40	2.70
1228.60	2.69
1228.80	2.69
1229.00	2.68
1229.20	2.68
1229.40	2.67
1229.60	2.67
1229.80	2.66
1230.00	2.66
1230.20	2.65
1230.40	2.65
1230.60	2.65
1230.80	2.64
1231.00	2.64
1231.20	2.63
1231.40	2.63
1231.60	2.62
1231.80	2.62
1232.00	2.61
1232.20	2.61
1232.40	2.61
1232.60	2.60
1232.80	2.60
1233.00	2.59
1233.20	2.59
1233.40	2.58
1233.60	2.58
1233.80	2.58
1234.00	2.57
1234.20	2.57
1234.40	2.56
1234.60	2.56
1234.80	2.56
1235.00	2.55
1235.20	2.55
1235.40	2.54
1235.60	2.54
1235.80	2.54
1236.00	2.53
1236.20	2.53
1236.40	2.52
1236.60	2.52
1236.80	2.52
1237.00	2.51
1237.20	2.51
1237.40	2.50
1237.60	2.50
1237.80	2.49
1238.00	2.49

1238.20	2.48
1238.40	2.48
1238.60	2.47
1238.80	2.47
1239.00	2.46
1239.20	2.46
1239.40	2.45
1239.60	2.45
1239.80	2.44
1240.00	2.44
1240.20	2.43
1240.40	2.43
1240.60	2.42
1240.80	2.42
1241.00	2.41
1241.20	2.41
1241.40	2.40
1241.60	2.40
1241.80	2.39
1242.00	2.39
1242.20	2.38
1242.40	2.38
1242.60	2.37
1242.80	2.37
1243.00	2.36
1243.20	2.36
1243.40	2.35
1243.60	2.35
1243.80	2.34
1244.00	2.34
1244.20	2.33
1244.40	2.33
1244.60	2.33
1244.80	2.32
1245.00	2.32
1245.20	2.31
1245.40	2.31
1245.60	2.30
1245.80	2.30
1246.00	2.29
1246.20	2.29
1246.40	2.29
1246.60	2.28
1246.80	2.28
1247.00	2.27
1247.20	2.27
1247.40	2.26
1247.60	2.26
1247.80	2.26
1248.00	2.25
1248.20	2.25
1248.40	2.24
1248.60	2.24
1248.80	2.23
1249.00	2.23
1249.20	2.23
1249.40	2.22
1249.60	2.22
1249.80	2.21
1250.00	2.21
1250.20	2.21
1250.40	2.20
1250.60	2.20
1250.80	2.19
1251.00	2.19
1251.20	2.19

1251.40	2.18
1251.60	2.18
1251.80	2.17
1252.00	2.17
1252.20	2.17
1252.40	2.16
1252.60	2.16
1252.80	2.16
1253.00	2.15
1253.20	2.15
1253.40	2.14
1253.60	2.14
1253.80	2.14
1254.00	2.13
1254.20	2.13
1254.40	2.13
1254.60	2.12
1254.80	2.12
1255.00	2.11
1255.20	2.11
1255.40	2.11
1255.60	2.10
1255.80	2.10
1256.00	2.10
1256.20	2.09
1256.40	2.09
1256.60	2.09
1256.80	2.08
1257.00	2.08
1257.20	2.08
1257.40	2.07
1257.60	2.07
1257.80	2.06
1258.00	2.06
1258.20	2.06
1258.40	2.05
1258.60	2.05
1258.80	2.05
1259.00	2.04
1259.20	2.04
1259.40	2.04
1259.60	2.03
1259.80	2.03
1260.00	2.03
1260.20	2.02
1260.40	2.02
1260.60	2.02
1260.80	2.01
1261.00	2.01
1261.20	2.01
1261.40	2.00
1261.60	2.00
1261.80	2.00
1262.00	1.99
1262.20	1.99
1262.40	1.99
1262.60	1.98
1262.80	1.98
1263.00	1.98
1263.20	1.98
1263.40	1.97
1263.60	1.97
1263.80	1.97
1264.00	1.96
1264.20	1.96
1264.40	1.96

1264.60	1.95
1264.80	1.95
1265.00	1.95
1265.20	1.94
1265.40	1.94
1265.60	1.94
1265.80	1.94
1266.00	1.93
1266.20	1.93
1266.40	1.93
1266.60	1.92
1266.80	1.92
1267.00	1.92
1267.20	1.91
1267.40	1.91
1267.60	1.91
1267.80	1.91
1268.00	1.90
1268.20	1.90
1268.40	1.90
1268.60	1.89
1268.80	1.89
1269.00	1.89
1269.20	1.89
1269.40	1.88
1269.60	1.88
1269.80	1.88
1270.00	1.87
1270.20	1.87
1270.40	1.87
1270.60	1.87
1270.80	1.86
1271.00	1.86
1271.20	1.86
1271.40	1.86
1271.60	1.85
1271.80	1.85
1272.00	1.85
1272.20	1.84
1272.40	1.84
1272.60	1.84
1272.80	1.84
1273.00	1.83
1273.20	1.83
1273.40	1.83
1273.60	1.83
1273.80	1.82
1274.00	1.82
1274.20	1.82
1274.40	1.82
1274.60	1.81
1274.80	1.81
1275.00	1.81
1275.20	1.80
1275.40	1.80
1275.60	1.80
1275.80	1.80
1276.00	1.79
1276.20	1.79
1276.40	1.79
1276.60	1.79
1276.80	1.78
1277.00	1.78
1277.20	1.78
1277.40	1.78
1277.60	1.77

1277.80	1.77
1278.00	1.77
1278.20	1.77
1278.40	1.76
1278.60	1.76
1278.80	1.76
1279.00	1.76
1279.20	1.76
1279.40	1.75
1279.60	1.75
1279.80	1.75
1280.00	1.75
1280.20	1.74
1280.40	1.74
1280.60	1.74
1280.80	1.74
1281.00	1.73
1281.20	1.73
1281.40	1.73
1281.60	1.73
1281.80	1.72
1282.00	1.72
1282.20	1.72
1282.40	1.72
1282.60	1.72
1282.80	1.71
1283.00	1.71
1283.20	1.71
1283.40	1.71
1283.60	1.70
1283.80	1.70
1284.00	1.70
1284.20	1.70
1284.40	1.70
1284.60	1.69
1284.80	1.69
1285.00	1.69
1285.20	1.69
1285.40	1.68
1285.60	1.68
1285.80	1.68
1286.00	1.68
1286.20	1.68
1286.40	1.67
1286.60	1.67
1286.80	1.67
1287.00	1.67
1287.20	1.66
1287.40	1.66
1287.60	1.66
1287.80	1.66
1288.00	1.66
1288.20	1.65
1288.40	1.65
1288.60	1.65
1288.80	1.65
1289.00	1.65
1289.20	1.64
1289.40	1.64
1289.60	1.64
1289.80	1.64
1290.00	1.64
1290.20	1.63
1290.40	1.63
1290.60	1.63
1290.80	1.63

1291.00	1.62
1291.20	1.62
1291.40	1.62
1291.60	1.62
1291.80	1.62
1292.00	1.61
1292.20	1.61
1292.40	1.61
1292.60	1.61
1292.80	1.61
1293.00	1.60
1293.20	1.60
1293.40	1.60
1293.60	1.60
1293.80	1.60
1294.00	1.60
1294.20	1.59
1294.40	1.59
1294.60	1.59
1294.80	1.59
1295.00	1.59
1295.20	1.58
1295.40	1.58
1295.60	1.58
1295.80	1.58
1296.00	1.58
1296.20	1.57
1296.40	1.57
1296.60	1.57
1296.80	1.57
1297.00	1.57
1297.20	1.56
1297.40	1.56
1297.60	1.56
1297.80	1.56
1298.00	1.56
1298.20	1.56
1298.40	1.55
1298.60	1.55
1298.80	1.55
1299.00	1.55
1299.20	1.55
1299.40	1.54
1299.60	1.54
1299.80	1.54
1300.00	1.54
1300.20	1.54
1300.40	1.54
1300.60	1.53
1300.80	1.53
1301.00	1.53
1301.20	1.53
1301.40	1.53
1301.60	1.52
1301.80	1.52
1302.00	1.52
1302.20	1.52
1302.40	1.52
1302.60	1.52
1302.80	1.51
1303.00	1.51
1303.20	1.51
1303.40	1.51
1303.60	1.51
1303.80	1.51
1304.00	1.50

1304.20	1.50
1304.40	1.50
1304.60	1.50
1304.80	1.50
1305.00	1.50
1305.20	1.49
1305.40	1.49
1305.60	1.49
1305.80	1.49
1306.00	1.49
1306.20	1.49
1306.40	1.48
1306.60	1.48
1306.80	1.48
1307.00	1.48
1307.20	1.48
1307.40	1.48
1307.60	1.47
1307.80	1.47
1308.00	1.47
1308.20	1.47
1308.40	1.47
1308.60	1.47
1308.80	1.46
1309.00	1.46
1309.20	1.46
1309.40	1.46
1309.60	1.46
1309.80	1.46
1310.00	1.46
1310.20	1.45
1310.40	1.45
1310.60	1.45
1310.80	1.45
1311.00	1.45
1311.20	1.45
1311.40	1.44
1311.60	1.44
1311.80	1.44
1312.00	1.44
1312.20	1.44
1312.40	1.44
1312.60	1.43
1312.80	1.43
1313.00	1.43
1313.20	1.43
1313.40	1.43
1313.60	1.43
1313.80	1.43
1314.00	1.42
1314.20	1.42
1314.40	1.42
1314.60	1.42
1314.80	1.42
1315.00	1.42
1315.20	1.42
1315.40	1.41
1315.60	1.41
1315.80	1.41
1316.00	1.41
1316.20	1.41
1316.40	1.41
1316.60	1.40
1316.80	1.40
1317.00	1.40
1317.20	1.40

1317.40	1.40
1317.60	1.40
1317.80	1.40
1318.00	1.39
1318.20	1.39
1318.40	1.39
1318.60	1.39
1318.80	1.39
1319.00	1.39
1319.20	1.39
1319.40	1.38
1319.60	1.38
1319.80	1.38
1320.00	1.38
1320.20	1.38
1320.40	1.38
1320.60	1.38
1320.80	1.38
1321.00	1.37
1321.20	1.37
1321.40	1.37
1321.60	1.37
1321.80	1.37
1322.00	1.37
1322.20	1.37
1322.40	1.36
1322.60	1.36
1322.80	1.36
1323.00	1.36
1323.20	1.36
1323.40	1.36
1323.60	1.36
1323.80	1.35
1324.00	1.35
1324.20	1.35
1324.40	1.35
1324.60	1.35
1324.80	1.35
1325.00	1.35
1325.20	1.35
1325.40	1.34
1325.60	1.34
1325.80	1.34
1326.00	1.34
1326.20	1.34
1326.40	1.34
1326.60	1.34
1326.80	1.33
1327.00	1.33
1327.20	1.33
1327.40	1.33
1327.60	1.33
1327.80	1.33
1328.00	1.33
1328.20	1.33
1328.40	1.32
1328.60	1.32
1328.80	1.32
1329.00	1.32
1329.20	1.32
1329.40	1.32
1329.60	1.32
1329.80	1.32
1330.00	1.31
1330.20	1.31
1330.40	1.31

1330.60	1.31
1330.80	1.31
1331.00	1.31
1331.20	1.31
1331.40	1.31
1331.60	1.30
1331.80	1.30
1332.00	1.30
1332.20	1.30
1332.40	1.30
1332.60	1.30
1332.80	1.30
1333.00	1.30
1333.20	1.29
1333.40	1.29
1333.60	1.29
1333.80	1.29
1334.00	1.29
1334.20	1.29
1334.40	1.29
1334.60	1.29
1334.80	1.28
1335.00	1.28
1335.20	1.28
1335.40	1.28
1335.60	1.28
1335.80	1.28
1336.00	1.28
1336.20	1.28
1336.40	1.28
1336.60	1.27
1336.80	1.27
1337.00	1.27
1337.20	1.27
1337.40	1.27
1337.60	1.27
1337.80	1.27
1338.00	1.27
1338.20	1.27
1338.40	1.26
1338.60	1.26
1338.80	1.26
1339.00	1.26
1339.20	1.26
1339.40	1.26
1339.60	1.26
1339.80	1.26
1340.00	1.25
1340.20	1.25
1340.40	1.25
1340.60	1.25
1340.80	1.25
1341.00	1.25
1341.20	1.25
1341.40	1.25
1341.60	1.25
1341.80	1.24
1342.00	1.24
1342.20	1.24
1342.40	1.24
1342.60	1.24
1342.80	1.24
1343.00	1.24
1343.20	1.24
1343.40	1.24
1343.60	1.23

1343.80	1.23
1344.00	1.23
1344.20	1.23
1344.40	1.23
1344.60	1.23
1344.80	1.23
1345.00	1.23
1345.20	1.23
1345.40	1.23
1345.60	1.22
1345.80	1.22
1346.00	1.22
1346.20	1.22
1346.40	1.22
1346.60	1.22
1346.80	1.22
1347.00	1.22
1347.20	1.22
1347.40	1.21
1347.60	1.21
1347.80	1.21
1348.00	1.21
1348.20	1.21
1348.40	1.21
1348.60	1.21
1348.80	1.21
1349.00	1.21
1349.20	1.21
1349.40	1.20
1349.60	1.20
1349.80	1.20
1350.00	1.20
1350.20	1.20
1350.40	1.20
1350.60	1.20
1350.80	1.20
1351.00	1.20
1351.20	1.20
1351.40	1.19
1351.60	1.19
1351.80	1.19
1352.00	1.19
1352.20	1.19
1352.40	1.19
1352.60	1.19
1352.80	1.19
1353.00	1.19
1353.20	1.19
1353.40	1.18
1353.60	1.18
1353.80	1.18
1354.00	1.18
1354.20	1.18
1354.40	1.18
1354.60	1.18
1354.80	1.18
1355.00	1.18
1355.20	1.18
1355.40	1.17
1355.60	1.17
1355.80	1.17
1356.00	1.17
1356.20	1.17
1356.40	1.17
1356.60	1.17
1356.80	1.17

1357.00	1.17
1357.20	1.17
1357.40	1.16
1357.60	1.16
1357.80	1.16
1358.00	1.16
1358.20	1.16
1358.40	1.16
1358.60	1.16
1358.80	1.16
1359.00	1.16
1359.20	1.16
1359.40	1.16
1359.60	1.15
1359.80	1.15
1360.00	1.15
1360.20	1.15
1360.40	1.15
1360.60	1.15
1360.80	1.15
1361.00	1.15
1361.20	1.15
1361.40	1.15
1361.60	1.15
1361.80	1.14
1362.00	1.14
1362.20	1.14
1362.40	1.14
1362.60	1.14
1362.80	1.14
1363.00	1.14
1363.20	1.14
1363.40	1.14
1363.60	1.14
1363.80	1.14
1364.00	1.13
1364.20	1.13
1364.40	1.13
1364.60	1.13
1364.80	1.13
1365.00	1.13
1365.20	1.13
1365.40	1.13
1365.60	1.13
1365.80	1.13
1366.00	1.13
1366.20	1.12
1366.40	1.12
1366.60	1.12
1366.80	1.12
1367.00	1.12
1367.20	1.12
1367.40	1.12
1367.60	1.12
1367.80	1.12
1368.00	1.12
1368.20	1.12
1368.40	1.11
1368.60	1.11
1368.80	1.11
1369.00	1.11
1369.20	1.11
1369.40	1.11
1369.60	1.11
1369.80	1.11
1370.00	1.11

1370.20	1.11
1370.40	1.11
1370.60	1.11
1370.80	1.10
1371.00	1.10
1371.20	1.10
1371.40	1.10
1371.60	1.10
1371.80	1.10
1372.00	1.10
1372.20	1.10
1372.40	1.10
1372.60	1.10
1372.80	1.10
1373.00	1.10
1373.20	1.09
1373.40	1.09
1373.60	1.09
1373.80	1.09
1374.00	1.09
1374.20	1.09
1374.40	1.09
1374.60	1.09
1374.80	1.09
1375.00	1.09
1375.20	1.09
1375.40	1.09
1375.60	1.08
1375.80	1.08
1376.00	1.08
1376.20	1.08
1376.40	1.08
1376.60	1.08
1376.80	1.08
1377.00	1.08
1377.20	1.08
1377.40	1.08
1377.60	1.08
1377.80	1.08
1378.00	1.08
1378.20	1.07
1378.40	1.07
1378.60	1.07
1378.80	1.07
1379.00	1.07
1379.20	1.07
1379.40	1.07
1379.60	1.07
1379.80	1.07
1380.00	1.07
1380.20	1.07
1380.40	1.07
1380.60	1.06
1380.80	1.06
1381.00	1.06
1381.20	1.06
1381.40	1.06
1381.60	1.06
1381.80	1.06
1382.00	1.06
1382.20	1.06
1382.40	1.06
1382.60	1.06
1382.80	1.06
1383.00	1.06
1383.20	1.05

1383.40	1.05
1383.60	1.05
1383.80	1.05
1384.00	1.05
1384.20	1.05
1384.40	1.05
1384.60	1.05
1384.80	1.05
1385.00	1.05
1385.20	1.05
1385.40	1.05
1385.60	1.05
1385.80	1.05
1386.00	1.04
1386.20	1.04
1386.40	1.04
1386.60	1.04
1386.80	1.04
1387.00	1.04
1387.20	1.04
1387.40	1.04
1387.60	1.04
1387.80	1.04
1388.00	1.04
1388.20	1.04
1388.40	1.04
1388.60	1.03
1388.80	1.03
1389.00	1.03
1389.20	1.03
1389.40	1.03
1389.60	1.03
1389.80	1.03
1390.00	1.03
1390.20	1.03
1390.40	1.03
1390.60	1.03
1390.80	1.03
1391.00	1.03
1391.20	1.03
1391.40	1.02
1391.60	1.02
1391.80	1.02
1392.00	1.02
1392.20	1.02
1392.40	1.02
1392.60	1.02
1392.80	1.02
1393.00	1.02
1393.20	1.02
1393.40	1.02
1393.60	1.02
1393.80	1.02
1394.00	1.02
1394.20	1.02
1394.40	1.01
1394.60	1.01
1394.80	1.01
1395.00	1.01
1395.20	1.01
1395.40	1.01
1395.60	1.01
1395.80	1.01
1396.00	1.01
1396.20	1.01
1396.40	1.01

1396.60	1.01
1396.80	1.01
1397.00	1.01
1397.20	1.00
1397.40	1.00
1397.60	1.00
1397.80	1.00
1398.00	1.00
1398.20	1.00
1398.40	1.00
1398.60	1.00
1398.80	1.00
1399.00	1.00
1399.20	1.00
1399.40	1.00
1399.60	1.00
1399.80	1.00
1400.00	1.00
1400.20	0.99
1400.40	0.99
1400.60	0.99
1400.80	0.99
1401.00	0.99
1401.20	0.99
1401.40	0.99
1401.60	0.99
1401.80	0.99
1402.00	0.99
1402.20	0.99
1402.40	0.99
1402.60	0.99
1402.80	0.99
1403.00	0.99
1403.20	0.98
1403.40	0.98
1403.60	0.98
1403.80	0.98
1404.00	0.98
1404.20	0.98
1404.40	0.98
1404.60	0.98
1404.80	0.98
1405.00	0.98
1405.20	0.98
1405.40	0.98
1405.60	0.98
1405.80	0.98
1406.00	0.98
1406.20	0.98
1406.40	0.97
1406.60	0.97
1406.80	0.97
1407.00	0.97
1407.20	0.97
1407.40	0.97
1407.60	0.97
1407.80	0.97
1408.00	0.97
1408.20	0.97
1408.40	0.97
1408.60	0.97
1408.80	0.97
1409.00	0.97
1409.20	0.97
1409.40	0.97
1409.60	0.96

1409.80	0.96
1410.00	0.96
1410.20	0.96
1410.40	0.96
1410.60	0.96
1410.80	0.96
1411.00	0.96
1411.20	0.96
1411.40	0.96
1411.60	0.96
1411.80	0.96
1412.00	0.96
1412.20	0.96
1412.40	0.96
1412.60	0.96
1412.80	0.95
1413.00	0.95
1413.20	0.95
1413.40	0.95
1413.60	0.95
1413.80	0.95
1414.00	0.95
1414.20	0.95
1414.40	0.95
1414.60	0.95
1414.80	0.95
1415.00	0.95
1415.20	0.95
1415.40	0.95
1415.60	0.95
1415.80	0.95
1416.00	0.95
1416.20	0.94
1416.40	0.94
1416.60	0.94
1416.80	0.94
1417.00	0.94
1417.20	0.94
1417.40	0.94
1417.60	0.94
1417.80	0.94
1418.00	0.94
1418.20	0.94
1418.40	0.94
1418.60	0.94
1418.80	0.94
1419.00	0.94
1419.20	0.94
1419.40	0.94
1419.60	0.93
1419.80	0.93
1420.00	0.93
1420.20	0.93
1420.40	0.93
1420.60	0.93
1420.80	0.93
1421.00	0.93
1421.20	0.93
1421.40	0.93
1421.60	0.93
1421.80	0.93
1422.00	0.93
1422.20	0.93
1422.40	0.93
1422.60	0.93
1422.80	0.93

1423.00	0.93
1423.20	0.92
1423.40	0.92
1423.60	0.92
1423.80	0.92
1424.00	0.92
1424.20	0.92
1424.40	0.92
1424.60	0.92
1424.80	0.92
1425.00	0.92
1425.20	0.92
1425.40	0.92
1425.60	0.92
1425.80	0.92
1426.00	0.92
1426.20	0.92
1426.40	0.92
1426.60	0.92
1426.80	0.91
1427.00	0.91
1427.20	0.91
1427.40	0.91
1427.60	0.91
1427.80	0.91
1428.00	0.91
1428.20	0.91
1428.40	0.91
1428.60	0.91
1428.80	0.91
1429.00	0.91
1429.20	0.91
1429.40	0.91
1429.60	0.91
1429.80	0.91
1430.00	0.91
1430.20	0.91
1430.40	0.91
1430.60	0.90
1430.80	0.90
1431.00	0.90
1431.20	0.90
1431.40	0.90
1431.60	0.90
1431.80	0.90
1432.00	0.90
1432.20	0.90
1432.40	0.90
1432.60	0.90
1432.80	0.90
1433.00	0.90
1433.20	0.90
1433.40	0.90
1433.60	0.90
1433.80	0.90
1434.00	0.90
1434.20	0.90
1434.40	0.89
1434.60	0.89
1434.80	0.89
1435.00	0.89
1435.20	0.89
1435.40	0.89
1435.60	0.89
1435.80	0.89
1436.00	0.89

1436.20	0.89
1436.40	0.89
1436.60	0.89
1436.80	0.89
1437.00	0.89
1437.20	0.89
1437.40	0.89
1437.60	0.89
1437.80	0.89
1438.00	0.89
1438.20	0.88
1438.40	0.88
1438.60	0.88
1438.80	0.88
1439.00	0.88
1439.20	0.88
1439.40	0.88
1439.60	0.88
1439.80	0.88
1440.00	0.88
1440.20	0.85
1440.40	0.82
1440.60	0.79
1440.80	0.78
1441.00	0.76
1441.20	0.74
1441.40	0.73
1441.60	0.71
1441.80	0.69
1442.00	0.68
1442.20	0.66
1442.40	0.64
1442.60	0.62
1442.80	0.61
1443.00	0.59
1443.20	0.57
1443.40	0.56
1443.60	0.54
1443.80	0.52
1444.00	0.51
1444.20	0.49
1444.40	0.47
1444.60	0.45
1444.80	0.44
1445.00	0.42
1445.20	0.40
1445.40	0.39
1445.60	0.37
1445.80	0.35
1446.00	0.34
1446.20	0.32
1446.40	0.30
1446.60	0.29
1446.80	0.27
1447.00	0.25
1447.20	0.24
1447.40	0.22
1447.60	0.20
1447.80	0.18
1448.00	0.17
1448.20	0.15
1448.40	0.13
1448.60	0.12
1448.80	0.10
1449.00	0.08
1449.20	0.07

1449.40	0.05
1449.60	0.03
1449.80	0.02
1450.00	0.00

Initial Storage = 0.0000 acre-ft

Detention Basin Result Parameters

Routed Hydrograph

Peak Outflow Discharge: 37.816 cfs, Time to Peak: 1159.60 (min), Total Outflow Volume 232725.61 ft^3

Time min	Discharge cfs	Storage acre-ft
0.00	0.00	0.000000
0.20	0.00	0.000005
0.40	0.00	0.000014
0.60	0.00	0.000028
0.80	0.00	0.000047
1.00	0.00	0.000071
1.20	0.00	0.000099
1.40	0.00	0.000131
1.60	0.01	0.000168
1.80	0.01	0.000210
2.00	0.01	0.000256
2.20	0.01	0.000306
2.40	0.01	0.000360
2.60	0.01	0.000419
2.80	0.02	0.000482
3.00	0.02	0.000549
3.20	0.02	0.000621
3.40	0.02	0.000696
3.60	0.02	0.000776
3.80	0.03	0.000859
4.00	0.03	0.000947
4.20	0.03	0.001038
4.40	0.04	0.001134
4.60	0.04	0.001233
4.80	0.04	0.001336
5.00	0.05	0.001443
5.20	0.05	0.001554
5.40	0.05	0.001669
5.60	0.06	0.001787
5.80	0.06	0.001909
6.00	0.07	0.002035
6.20	0.07	0.002164
6.40	0.08	0.002297
6.60	0.08	0.002433
6.80	0.08	0.002573
7.00	0.09	0.002717
7.20	0.09	0.002864
7.40	0.10	0.003014
7.60	0.10	0.003168
7.80	0.11	0.003325
8.00	0.11	0.003485
8.20	0.12	0.003649
8.40	0.13	0.003815
8.60	0.13	0.003986
8.80	0.14	0.004159
9.00	0.14	0.004335
9.20	0.15	0.004515
9.40	0.16	0.004698
9.60	0.16	0.004884
9.80	0.17	0.005073
10.00	0.17	0.005265
10.20	0.18	0.005455
10.40	0.19	0.005643
10.60	0.19	0.005830

10.80	0.20	0.006015
11.00	0.21	0.006199
11.20	0.21	0.006381
11.40	0.22	0.006561
11.60	0.22	0.006739
11.80	0.23	0.006916
12.00	0.24	0.007091
12.20	0.24	0.007265
12.40	0.25	0.007437
12.60	0.25	0.007608
12.80	0.26	0.007777
13.00	0.26	0.007944
13.20	0.27	0.008110
13.40	0.28	0.008275
13.60	0.28	0.008438
13.80	0.29	0.008599
14.00	0.29	0.008759
14.20	0.30	0.008918
14.40	0.30	0.009075
14.60	0.31	0.009231
14.80	0.31	0.009386
15.00	0.32	0.009538
15.20	0.32	0.009690
15.40	0.33	0.009840
15.60	0.33	0.009989
15.80	0.34	0.010137
16.00	0.34	0.010283
16.20	0.35	0.010428
16.40	0.35	0.010572
16.60	0.36	0.010714
16.80	0.36	0.010855
17.00	0.37	0.010995
17.20	0.37	0.011133
17.40	0.38	0.011270
17.60	0.38	0.011406
17.80	0.39	0.011541
18.00	0.39	0.011675
18.20	0.40	0.011807
18.40	0.40	0.011938
18.60	0.41	0.012067
18.80	0.42	0.012191
19.00	0.43	0.012313
19.20	0.45	0.012432
19.40	0.46	0.012548
19.60	0.47	0.012660
19.80	0.48	0.012771
20.00	0.49	0.012878
20.20	0.50	0.012983
20.40	0.51	0.013085
20.60	0.52	0.013184
20.80	0.53	0.013281
21.00	0.53	0.013376
21.20	0.54	0.013468
21.40	0.55	0.013558
21.60	0.56	0.013646
21.80	0.57	0.013731
22.00	0.58	0.013815
22.20	0.58	0.013896
22.40	0.59	0.013976
22.60	0.60	0.014053
22.80	0.60	0.014129
23.00	0.61	0.014202
23.20	0.62	0.014274
23.40	0.62	0.014344
23.60	0.63	0.014412
23.80	0.64	0.014479

24.00	0.64	0.014544
24.20	0.65	0.014607
24.40	0.66	0.014669
24.60	0.66	0.014730
24.80	0.67	0.014788
25.00	0.67	0.014846
25.20	0.68	0.014902
25.40	0.68	0.014956
25.60	0.69	0.015009
25.80	0.69	0.015061
26.00	0.70	0.015112
26.20	0.70	0.015161
26.40	0.71	0.015210
26.60	0.71	0.015257
26.80	0.71	0.015302
27.00	0.72	0.015347
27.20	0.72	0.015391
27.40	0.73	0.015433
27.60	0.73	0.015475
27.80	0.73	0.015516
28.00	0.74	0.015555
28.20	0.74	0.015594
28.40	0.75	0.015631
28.60	0.75	0.015668
28.80	0.75	0.015704
29.00	0.76	0.015739
29.20	0.76	0.015773
29.40	0.76	0.015806
29.60	0.77	0.015839
29.80	0.77	0.015871
30.00	0.77	0.015902
30.20	0.77	0.015932
30.40	0.78	0.015961
30.60	0.78	0.015990
30.80	0.78	0.016018
31.00	0.78	0.016046
31.20	0.79	0.016072
31.40	0.79	0.016098
31.60	0.79	0.016124
31.80	0.79	0.016149
32.00	0.80	0.016173
32.20	0.80	0.016197
32.40	0.80	0.016220
32.60	0.80	0.016243
32.80	0.80	0.016265
33.00	0.81	0.016286
33.20	0.81	0.016307
33.40	0.81	0.016328
33.60	0.81	0.016348
33.80	0.81	0.016367
34.00	0.82	0.016386
34.20	0.82	0.016405
34.40	0.82	0.016423
34.60	0.82	0.016441
34.80	0.82	0.016459
35.00	0.82	0.016476
35.20	0.83	0.016492
35.40	0.83	0.016508
35.60	0.83	0.016524
35.80	0.83	0.016540
36.00	0.83	0.016555
36.20	0.83	0.016570
36.40	0.83	0.016584
36.60	0.84	0.016598
36.80	0.84	0.016612
37.00	0.84	0.016626

37.20	0.84	0.016639
37.40	0.84	0.016652
37.60	0.84	0.016664
37.80	0.84	0.016677
38.00	0.84	0.016689
38.20	0.85	0.016700
38.40	0.85	0.016712
38.60	0.85	0.016723
38.80	0.85	0.016734
39.00	0.85	0.016745
39.20	0.85	0.016755
39.40	0.85	0.016766
39.60	0.85	0.016776
39.80	0.85	0.016786
40.00	0.85	0.016795
40.20	0.86	0.016805
40.40	0.86	0.016814
40.60	0.86	0.016823
40.80	0.86	0.016832
41.00	0.86	0.016840
41.20	0.86	0.016849
41.40	0.86	0.016857
41.60	0.86	0.016865
41.80	0.86	0.016873
42.00	0.86	0.016881
42.20	0.86	0.016889
42.40	0.86	0.016896
42.60	0.86	0.016903
42.80	0.87	0.016911
43.00	0.87	0.016918
43.20	0.87	0.016924
43.40	0.87	0.016931
43.60	0.87	0.016938
43.80	0.87	0.016944
44.00	0.87	0.016951
44.20	0.87	0.016957
44.40	0.87	0.016963
44.60	0.87	0.016969
44.80	0.87	0.016975
45.00	0.87	0.016980
45.20	0.87	0.016986
45.40	0.87	0.016992
45.60	0.87	0.016997
45.80	0.87	0.017002
46.00	0.87	0.017008
46.20	0.87	0.017013
46.40	0.88	0.017018
46.60	0.88	0.017023
46.80	0.88	0.017028
47.00	0.88	0.017032
47.20	0.88	0.017037
47.40	0.88	0.017042
47.60	0.88	0.017046
47.80	0.88	0.017051
48.00	0.88	0.017055
48.20	0.88	0.017059
48.40	0.88	0.017063
48.60	0.88	0.017068
48.80	0.88	0.017072
49.00	0.88	0.017076
49.20	0.88	0.017080
49.40	0.88	0.017084
49.60	0.88	0.017087
49.80	0.88	0.017091
50.00	0.88	0.017095
50.20	0.88	0.017098

50.40	0.88	0.017102
50.60	0.88	0.017106
50.80	0.88	0.017109
51.00	0.88	0.017112
51.20	0.88	0.017116
51.40	0.88	0.017119
51.60	0.89	0.017122
51.80	0.89	0.017126
52.00	0.89	0.017129
52.20	0.89	0.017132
52.40	0.89	0.017135
52.60	0.89	0.017138
52.80	0.89	0.017141
53.00	0.89	0.017144
53.20	0.89	0.017147
53.40	0.89	0.017150
53.60	0.89	0.017153
53.80	0.89	0.017156
54.00	0.89	0.017158
54.20	0.89	0.017161
54.40	0.89	0.017164
54.60	0.89	0.017167
54.80	0.89	0.017169
55.00	0.89	0.017172
55.20	0.89	0.017174
55.40	0.89	0.017177
55.60	0.89	0.017180
55.80	0.89	0.017182
56.00	0.89	0.017185
56.20	0.89	0.017187
56.40	0.89	0.017189
56.60	0.89	0.017192
56.80	0.89	0.017194
57.00	0.89	0.017197
57.20	0.89	0.017199
57.40	0.89	0.017201
57.60	0.89	0.017203
57.80	0.89	0.017206
58.00	0.89	0.017208
58.20	0.89	0.017210
58.40	0.89	0.017212
58.60	0.89	0.017215
58.80	0.89	0.017217
59.00	0.89	0.017219
59.20	0.89	0.017221
59.40	0.89	0.017223
59.60	0.89	0.017225
59.80	0.90	0.017227
60.00	0.90	0.017229
60.20	0.90	0.017231
60.40	0.90	0.017233
60.60	0.90	0.017235
60.80	0.90	0.017237
61.00	0.90	0.017239
61.20	0.90	0.017241
61.40	0.90	0.017243
61.60	0.90	0.017245
61.80	0.90	0.017247
62.00	0.90	0.017249
62.20	0.90	0.017251
62.40	0.90	0.017253
62.60	0.90	0.017255
62.80	0.90	0.017257
63.00	0.90	0.017259
63.20	0.90	0.017260
63.40	0.90	0.017262

63.60	0.90	0.017264
63.80	0.90	0.017266
64.00	0.90	0.017268
64.20	0.90	0.017269
64.40	0.90	0.017271
64.60	0.90	0.017273
64.80	0.90	0.017275
65.00	0.90	0.017277
65.20	0.90	0.017278
65.40	0.90	0.017280
65.60	0.90	0.017282
65.80	0.90	0.017284
66.00	0.90	0.017285
66.20	0.90	0.017287
66.40	0.90	0.017289
66.60	0.90	0.017290
66.80	0.90	0.017292
67.00	0.90	0.017294
67.20	0.90	0.017296
67.40	0.90	0.017297
67.60	0.90	0.017299
67.80	0.90	0.017301
68.00	0.90	0.017302
68.20	0.90	0.017304
68.40	0.90	0.017306
68.60	0.90	0.017307
68.80	0.90	0.017309
69.00	0.90	0.017310
69.20	0.90	0.017312
69.40	0.90	0.017314
69.60	0.90	0.017315
69.80	0.90	0.017317
70.00	0.90	0.017319
70.20	0.90	0.017320
70.40	0.90	0.017322
70.60	0.90	0.017323
70.80	0.90	0.017325
71.00	0.90	0.017327
71.20	0.90	0.017328
71.40	0.90	0.017330
71.60	0.90	0.017331
71.80	0.90	0.017333
72.00	0.90	0.017335
72.20	0.91	0.017336
72.40	0.91	0.017338
72.60	0.91	0.017339
72.80	0.91	0.017341
73.00	0.91	0.017342
73.20	0.91	0.017344
73.40	0.91	0.017345
73.60	0.91	0.017347
73.80	0.91	0.017349
74.00	0.91	0.017350
74.20	0.91	0.017352
74.40	0.91	0.017353
74.60	0.91	0.017355
74.80	0.91	0.017356
75.00	0.91	0.017358
75.20	0.91	0.017359
75.40	0.91	0.017361
75.60	0.91	0.017362
75.80	0.91	0.017364
76.00	0.91	0.017366
76.20	0.91	0.017367
76.40	0.91	0.017369
76.60	0.91	0.017370

76.80	0.91	0.017372
77.00	0.91	0.017373
77.20	0.91	0.017375
77.40	0.91	0.017376
77.60	0.91	0.017378
77.80	0.91	0.017379
78.00	0.91	0.017381
78.20	0.91	0.017382
78.40	0.91	0.017384
78.60	0.91	0.017385
78.80	0.91	0.017387
79.00	0.91	0.017388
79.20	0.91	0.017390
79.40	0.91	0.017391
79.60	0.91	0.017393
79.80	0.91	0.017394
80.00	0.91	0.017396
80.20	0.91	0.017398
80.40	0.91	0.017399
80.60	0.91	0.017401
80.80	0.91	0.017402
81.00	0.91	0.017404
81.20	0.91	0.017405
81.40	0.91	0.017407
81.60	0.91	0.017408
81.80	0.91	0.017410
82.00	0.91	0.017411
82.20	0.91	0.017413
82.40	0.91	0.017414
82.60	0.91	0.017416
82.80	0.91	0.017417
83.00	0.91	0.017419
83.20	0.91	0.017420
83.40	0.91	0.017422
83.60	0.91	0.017423
83.80	0.91	0.017425
84.00	0.91	0.017426
84.20	0.91	0.017428
84.40	0.91	0.017429
84.60	0.91	0.017431
84.80	0.91	0.017432
85.00	0.91	0.017434
85.20	0.91	0.017435
85.40	0.91	0.017437
85.60	0.91	0.017438
85.80	0.91	0.017440
86.00	0.91	0.017441
86.20	0.91	0.017443
86.40	0.92	0.017444
86.60	0.92	0.017446
86.80	0.92	0.017447
87.00	0.92	0.017449
87.20	0.92	0.017450
87.40	0.92	0.017452
87.60	0.92	0.017453
87.80	0.92	0.017455
88.00	0.92	0.017456
88.20	0.92	0.017458
88.40	0.92	0.017459
88.60	0.92	0.017461
88.80	0.92	0.017462
89.00	0.92	0.017464
89.20	0.92	0.017465
89.40	0.92	0.017467
89.60	0.92	0.017468
89.80	0.92	0.017470

90.00	0.92	0.017471
90.20	0.92	0.017473
90.40	0.92	0.017474
90.60	0.92	0.017476
90.80	0.92	0.017477
91.00	0.92	0.017479
91.20	0.92	0.017480
91.40	0.92	0.017482
91.60	0.92	0.017483
91.80	0.92	0.017485
92.00	0.92	0.017486
92.20	0.92	0.017488
92.40	0.92	0.017489
92.60	0.92	0.017491
92.80	0.92	0.017492
93.00	0.92	0.017494
93.20	0.92	0.017495
93.40	0.92	0.017497
93.60	0.92	0.017498
93.80	0.92	0.017500
94.00	0.92	0.017501
94.20	0.92	0.017503
94.40	0.92	0.017504
94.60	0.92	0.017506
94.80	0.92	0.017507
95.00	0.92	0.017509
95.20	0.92	0.017510
95.40	0.92	0.017512
95.60	0.92	0.017513
95.80	0.92	0.017515
96.00	0.92	0.017516
96.20	0.92	0.017518
96.40	0.92	0.017519
96.60	0.92	0.017521
96.80	0.92	0.017522
97.00	0.92	0.017524
97.20	0.92	0.017525
97.40	0.92	0.017527
97.60	0.92	0.017528
97.80	0.92	0.017530
98.00	0.92	0.017531
98.20	0.92	0.017533
98.40	0.92	0.017534
98.60	0.92	0.017536
98.80	0.92	0.017537
99.00	0.92	0.017539
99.20	0.92	0.017540
99.40	0.92	0.017542
99.60	0.92	0.017543
99.80	0.92	0.017545
100.00	0.92	0.017546
100.20	0.92	0.017548
100.40	0.92	0.017549
100.60	0.93	0.017551
100.80	0.93	0.017553
101.00	0.93	0.017554
101.20	0.93	0.017556
101.40	0.93	0.017557
101.60	0.93	0.017559
101.80	0.93	0.017560
102.00	0.93	0.017562
102.20	0.93	0.017563
102.40	0.93	0.017565
102.60	0.93	0.017566
102.80	0.93	0.017568
103.00	0.93	0.017569

103.20	0.93	0.017571
103.40	0.93	0.017572
103.60	0.93	0.017574
103.80	0.93	0.017575
104.00	0.93	0.017577
104.20	0.93	0.017578
104.40	0.93	0.017580
104.60	0.93	0.017581
104.80	0.93	0.017583
105.00	0.93	0.017585
105.20	0.93	0.017586
105.40	0.93	0.017588
105.60	0.93	0.017589
105.80	0.93	0.017591
106.00	0.93	0.017592
106.20	0.93	0.017594
106.40	0.93	0.017595
106.60	0.93	0.017597
106.80	0.93	0.017598
107.00	0.93	0.017600
107.20	0.93	0.017601
107.40	0.93	0.017603
107.60	0.93	0.017604
107.80	0.93	0.017606
108.00	0.93	0.017607
108.20	0.93	0.017609
108.40	0.93	0.017611
108.60	0.93	0.017612
108.80	0.93	0.017614
109.00	0.93	0.017615
109.20	0.93	0.017617
109.40	0.93	0.017618
109.60	0.93	0.017620
109.80	0.93	0.017621
110.00	0.93	0.017623
110.20	0.93	0.017624
110.40	0.93	0.017626
110.60	0.93	0.017627
110.80	0.93	0.017629
111.00	0.93	0.017631
111.20	0.93	0.017632
111.40	0.93	0.017634
111.60	0.93	0.017635
111.80	0.93	0.017637
112.00	0.93	0.017638
112.20	0.93	0.017640
112.40	0.93	0.017641
112.60	0.93	0.017643
112.80	0.93	0.017644
113.00	0.93	0.017646
113.20	0.93	0.017648
113.40	0.93	0.017649
113.60	0.93	0.017651
113.80	0.93	0.017652
114.00	0.93	0.017654
114.20	0.93	0.017655
114.40	0.93	0.017657
114.60	0.93	0.017658
114.80	0.94	0.017660
115.00	0.94	0.017662
115.20	0.94	0.017663
115.40	0.94	0.017665
115.60	0.94	0.017666
115.80	0.94	0.017668
116.00	0.94	0.017669
116.20	0.94	0.017671

116.40	0.94	0.017672
116.60	0.94	0.017674
116.80	0.94	0.017676
117.00	0.94	0.017677
117.20	0.94	0.017679
117.40	0.94	0.017680
117.60	0.94	0.017682
117.80	0.94	0.017683
118.00	0.94	0.017685
118.20	0.94	0.017686
118.40	0.94	0.017688
118.60	0.94	0.017690
118.80	0.94	0.017691
119.00	0.94	0.017693
119.20	0.94	0.017694
119.40	0.94	0.017696
119.60	0.94	0.017697
119.80	0.94	0.017699
120.00	0.94	0.017701
120.20	0.94	0.017702
120.40	0.94	0.017704
120.60	0.94	0.017705
120.80	0.94	0.017707
121.00	0.94	0.017708
121.20	0.94	0.017710
121.40	0.94	0.017712
121.60	0.94	0.017713
121.80	0.94	0.017715
122.00	0.94	0.017716
122.20	0.94	0.017718
122.40	0.94	0.017719
122.60	0.94	0.017721
122.80	0.94	0.017723
123.00	0.94	0.017724
123.20	0.94	0.017726
123.40	0.94	0.017727
123.60	0.94	0.017729
123.80	0.94	0.017730
124.00	0.94	0.017732
124.20	0.94	0.017734
124.40	0.94	0.017735
124.60	0.94	0.017737
124.80	0.94	0.017738
125.00	0.94	0.017740
125.20	0.94	0.017741
125.40	0.94	0.017743
125.60	0.94	0.017745
125.80	0.94	0.017746
126.00	0.94	0.017748
126.20	0.94	0.017749
126.40	0.94	0.017751
126.60	0.94	0.017753
126.80	0.94	0.017754
127.00	0.94	0.017756
127.20	0.94	0.017757
127.40	0.94	0.017759
127.60	0.94	0.017761
127.80	0.94	0.017762
128.00	0.94	0.017764
128.20	0.94	0.017765
128.40	0.94	0.017767
128.60	0.95	0.017768
128.80	0.95	0.017770
129.00	0.95	0.017772
129.20	0.95	0.017773
129.40	0.95	0.017775

129.60	0.95	0.017776
129.80	0.95	0.017778
130.00	0.95	0.017780
130.20	0.95	0.017781
130.40	0.95	0.017783
130.60	0.95	0.017784
130.80	0.95	0.017786
131.00	0.95	0.017788
131.20	0.95	0.017789
131.40	0.95	0.017791
131.60	0.95	0.017792
131.80	0.95	0.017794
132.00	0.95	0.017796
132.20	0.95	0.017797
132.40	0.95	0.017799
132.60	0.95	0.017800
132.80	0.95	0.017802
133.00	0.95	0.017804
133.20	0.95	0.017805
133.40	0.95	0.017807
133.60	0.95	0.017809
133.80	0.95	0.017810
134.00	0.95	0.017812
134.20	0.95	0.017813
134.40	0.95	0.017815
134.60	0.95	0.017817
134.80	0.95	0.017818
135.00	0.95	0.017820
135.20	0.95	0.017821
135.40	0.95	0.017823
135.60	0.95	0.017825
135.80	0.95	0.017826
136.00	0.95	0.017828
136.20	0.95	0.017829
136.40	0.95	0.017831
136.60	0.95	0.017833
136.80	0.95	0.017834
137.00	0.95	0.017836
137.20	0.95	0.017837
137.40	0.95	0.017839
137.60	0.95	0.017841
137.80	0.95	0.017842
138.00	0.95	0.017844
138.20	0.95	0.017846
138.40	0.95	0.017847
138.60	0.95	0.017849
138.80	0.95	0.017850
139.00	0.95	0.017852
139.20	0.95	0.017854
139.40	0.95	0.017855
139.60	0.95	0.017857
139.80	0.95	0.017859
140.00	0.95	0.017860
140.20	0.95	0.017862
140.40	0.95	0.017863
140.60	0.95	0.017865
140.80	0.95	0.017867
141.00	0.95	0.017868
141.20	0.95	0.017870
141.40	0.95	0.017872
141.60	0.95	0.017873
141.80	0.95	0.017875
142.00	0.96	0.017876
142.20	0.96	0.017878
142.40	0.96	0.017880
142.60	0.96	0.017881

142.80	0.96	0.017883
143.00	0.96	0.017885
143.20	0.96	0.017886
143.40	0.96	0.017888
143.60	0.96	0.017889
143.80	0.96	0.017891
144.00	0.96	0.017893
144.20	0.96	0.017894
144.40	0.96	0.017896
144.60	0.96	0.017898
144.80	0.96	0.017899
145.00	0.96	0.017901
145.20	0.96	0.017903
145.40	0.96	0.017904
145.60	0.96	0.017906
145.80	0.96	0.017908
146.00	0.96	0.017909
146.20	0.96	0.017911
146.40	0.96	0.017912
146.60	0.96	0.017914
146.80	0.96	0.017916
147.00	0.96	0.017917
147.20	0.96	0.017919
147.40	0.96	0.017921
147.60	0.96	0.017922
147.80	0.96	0.017924
148.00	0.96	0.017926
148.20	0.96	0.017927
148.40	0.96	0.017929
148.60	0.96	0.017931
148.80	0.96	0.017932
149.00	0.96	0.017934
149.20	0.96	0.017935
149.40	0.96	0.017937
149.60	0.96	0.017939
149.80	0.96	0.017940
150.00	0.96	0.017942
150.20	0.96	0.017944
150.40	0.96	0.017945
150.60	0.96	0.017947
150.80	0.96	0.017949
151.00	0.96	0.017950
151.20	0.96	0.017952
151.40	0.96	0.017954
151.60	0.96	0.017955
151.80	0.96	0.017957
152.00	0.96	0.017959
152.20	0.96	0.017960
152.40	0.96	0.017962
152.60	0.96	0.017964
152.80	0.96	0.017965
153.00	0.96	0.017967
153.20	0.96	0.017969
153.40	0.96	0.017970
153.60	0.96	0.017972
153.80	0.96	0.017974
154.00	0.96	0.017975
154.20	0.96	0.017977
154.40	0.96	0.017979
154.60	0.96	0.017980
154.80	0.96	0.017982
155.00	0.97	0.017984
155.20	0.97	0.017985
155.40	0.97	0.017987
155.60	0.97	0.017989
155.80	0.97	0.017990

156.00	0.97	0.017992
156.20	0.97	0.017994
156.40	0.97	0.017995
156.60	0.97	0.017997
156.80	0.97	0.017999
157.00	0.97	0.018000
157.20	0.97	0.018002
157.40	0.97	0.018004
157.60	0.97	0.018005
157.80	0.97	0.018007
158.00	0.97	0.018009
158.20	0.97	0.018010
158.40	0.97	0.018012
158.60	0.97	0.018014
158.80	0.97	0.018015
159.00	0.97	0.018017
159.20	0.97	0.018019
159.40	0.97	0.018021
159.60	0.97	0.018022
159.80	0.97	0.018024
160.00	0.97	0.018026
160.20	0.97	0.018027
160.40	0.97	0.018029
160.60	0.97	0.018031
160.80	0.97	0.018032
161.00	0.97	0.018034
161.20	0.97	0.018036
161.40	0.97	0.018037
161.60	0.97	0.018039
161.80	0.97	0.018041
162.00	0.97	0.018042
162.20	0.97	0.018044
162.40	0.97	0.018046
162.60	0.97	0.018048
162.80	0.97	0.018049
163.00	0.97	0.018051
163.20	0.97	0.018053
163.40	0.97	0.018054
163.60	0.97	0.018056
163.80	0.97	0.018058
164.00	0.97	0.018059
164.20	0.97	0.018061
164.40	0.97	0.018063
164.60	0.97	0.018065
164.80	0.97	0.018066
165.00	0.97	0.018068
165.20	0.97	0.018070
165.40	0.97	0.018071
165.60	0.97	0.018073
165.80	0.97	0.018075
166.00	0.97	0.018076
166.20	0.97	0.018078
166.40	0.97	0.018080
166.60	0.97	0.018082
166.80	0.97	0.018083
167.00	0.97	0.018085
167.20	0.97	0.018087
167.40	0.97	0.018088
167.60	0.97	0.018090
167.80	0.98	0.018092
168.00	0.98	0.018094
168.20	0.98	0.018095
168.40	0.98	0.018097
168.60	0.98	0.018099
168.80	0.98	0.018100
169.00	0.98	0.018102

169.20	0.98	0.018104
169.40	0.98	0.018106
169.60	0.98	0.018107
169.80	0.98	0.018109
170.00	0.98	0.018111
170.20	0.98	0.018112
170.40	0.98	0.018114
170.60	0.98	0.018116
170.80	0.98	0.018118
171.00	0.98	0.018119
171.20	0.98	0.018121
171.40	0.98	0.018123
171.60	0.98	0.018124
171.80	0.98	0.018126
172.00	0.98	0.018128
172.20	0.98	0.018130
172.40	0.98	0.018131
172.60	0.98	0.018133
172.80	0.98	0.018135
173.00	0.98	0.018137
173.20	0.98	0.018138
173.40	0.98	0.018140
173.60	0.98	0.018142
173.80	0.98	0.018143
174.00	0.98	0.018145
174.20	0.98	0.018147
174.40	0.98	0.018149
174.60	0.98	0.018150
174.80	0.98	0.018152
175.00	0.98	0.018154
175.20	0.98	0.018156
175.40	0.98	0.018157
175.60	0.98	0.018159
175.80	0.98	0.018161
176.00	0.98	0.018162
176.20	0.98	0.018164
176.40	0.98	0.018166
176.60	0.98	0.018168
176.80	0.98	0.018169
177.00	0.98	0.018171
177.20	0.98	0.018173
177.40	0.98	0.018175
177.60	0.98	0.018176
177.80	0.98	0.018178
178.00	0.98	0.018180
178.20	0.98	0.018182
178.40	0.98	0.018183
178.60	0.98	0.018185
178.80	0.98	0.018187
179.00	0.98	0.018189
179.20	0.98	0.018190
179.40	0.98	0.018192
179.60	0.98	0.018194
179.80	0.98	0.018196
180.00	0.98	0.018197
180.20	0.99	0.018199
180.40	0.99	0.018201
180.60	0.99	0.018203
180.80	0.99	0.018204
181.00	0.99	0.018206
181.20	0.99	0.018208
181.40	0.99	0.018210
181.60	0.99	0.018211
181.80	0.99	0.018213
182.00	0.99	0.018215
182.20	0.99	0.018217

182.40	0.99	0.018218
182.60	0.99	0.018220
182.80	0.99	0.018222
183.00	0.99	0.018224
183.20	0.99	0.018225
183.40	0.99	0.018227
183.60	0.99	0.018229
183.80	0.99	0.018231
184.00	0.99	0.018232
184.20	0.99	0.018234
184.40	0.99	0.018236
184.60	0.99	0.018238
184.80	0.99	0.018240
185.00	0.99	0.018241
185.20	0.99	0.018243
185.40	0.99	0.018245
185.60	0.99	0.018247
185.80	0.99	0.018248
186.00	0.99	0.018250
186.20	0.99	0.018252
186.40	0.99	0.018254
186.60	0.99	0.018255
186.80	0.99	0.018257
187.00	0.99	0.018259
187.20	0.99	0.018261
187.40	0.99	0.018263
187.60	0.99	0.018264
187.80	0.99	0.018266
188.00	0.99	0.018268
188.20	0.99	0.018270
188.40	0.99	0.018271
188.60	0.99	0.018273
188.80	0.99	0.018275
189.00	0.99	0.018277
189.20	0.99	0.018279
189.40	0.99	0.018280
189.60	0.99	0.018282
189.80	0.99	0.018284
190.00	0.99	0.018286
190.20	0.99	0.018288
190.40	0.99	0.018289
190.60	0.99	0.018291
190.80	0.99	0.018293
191.00	0.99	0.018295
191.20	0.99	0.018296
191.40	0.99	0.018298
191.60	0.99	0.018300
191.80	0.99	0.018302
192.00	0.99	0.018304
192.20	0.99	0.018305
192.40	1.00	0.018307
192.60	1.00	0.018309
192.80	1.00	0.018311
193.00	1.00	0.018313
193.20	1.00	0.018314
193.40	1.00	0.018316
193.60	1.00	0.018318
193.80	1.00	0.018320
194.00	1.00	0.018322
194.20	1.00	0.018323
194.40	1.00	0.018325
194.60	1.00	0.018327
194.80	1.00	0.018329
195.00	1.00	0.018330
195.20	1.00	0.018332
195.40	1.00	0.018334

195.60	1.00	0.018336
195.80	1.00	0.018338
196.00	1.00	0.018339
196.20	1.00	0.018341
196.40	1.00	0.018343
196.60	1.00	0.018345
196.80	1.00	0.018347
197.00	1.00	0.018349
197.20	1.00	0.018350
197.40	1.00	0.018352
197.60	1.00	0.018354
197.80	1.00	0.018356
198.00	1.00	0.018358
198.20	1.00	0.018359
198.40	1.00	0.018361
198.60	1.00	0.018363
198.80	1.00	0.018365
199.00	1.00	0.018367
199.20	1.00	0.018368
199.40	1.00	0.018370
199.60	1.00	0.018372
199.80	1.00	0.018374
200.00	1.00	0.018376
200.20	1.00	0.018378
200.40	1.00	0.018379
200.60	1.00	0.018381
200.80	1.00	0.018383
201.00	1.00	0.018385
201.20	1.00	0.018387
201.40	1.00	0.018388
201.60	1.00	0.018390
201.80	1.00	0.018392
202.00	1.00	0.018394
202.20	1.00	0.018396
202.40	1.00	0.018398
202.60	1.00	0.018399
202.80	1.00	0.018401
203.00	1.00	0.018403
203.20	1.00	0.018405
203.40	1.00	0.018407
203.60	1.00	0.018409
203.80	1.00	0.018410
204.00	1.00	0.018412
204.20	1.00	0.018414
204.40	1.01	0.018416
204.60	1.01	0.018418
204.80	1.01	0.018420
205.00	1.01	0.018421
205.20	1.01	0.018423
205.40	1.01	0.018425
205.60	1.01	0.018427
205.80	1.01	0.018429
206.00	1.01	0.018431
206.20	1.01	0.018432
206.40	1.01	0.018434
206.60	1.01	0.018436
206.80	1.01	0.018438
207.00	1.01	0.018440
207.20	1.01	0.018442
207.40	1.01	0.018443
207.60	1.01	0.018445
207.80	1.01	0.018447
208.00	1.01	0.018449
208.20	1.01	0.018451
208.40	1.01	0.018453
208.60	1.01	0.018455

208.80	1.01	0.018456
209.00	1.01	0.018458
209.20	1.01	0.018460
209.40	1.01	0.018462
209.60	1.01	0.018464
209.80	1.01	0.018466
210.00	1.01	0.018467
210.20	1.01	0.018469
210.40	1.01	0.018471
210.60	1.01	0.018473
210.80	1.01	0.018475
211.00	1.01	0.018477
211.20	1.01	0.018479
211.40	1.01	0.018480
211.60	1.01	0.018482
211.80	1.01	0.018484
212.00	1.01	0.018486
212.20	1.01	0.018488
212.40	1.01	0.018490
212.60	1.01	0.018492
212.80	1.01	0.018493
213.00	1.01	0.018495
213.20	1.01	0.018497
213.40	1.01	0.018499
213.60	1.01	0.018501
213.80	1.01	0.018503
214.00	1.01	0.018505
214.20	1.01	0.018507
214.40	1.01	0.018508
214.60	1.01	0.018510
214.80	1.01	0.018512
215.00	1.01	0.018514
215.20	1.01	0.018516
215.40	1.01	0.018518
215.60	1.01	0.018520
215.80	1.01	0.018522
216.00	1.02	0.018523
216.20	1.02	0.018525
216.40	1.02	0.018527
216.60	1.02	0.018529
216.80	1.02	0.018531
217.00	1.02	0.018533
217.20	1.02	0.018535
217.40	1.02	0.018537
217.60	1.02	0.018538
217.80	1.02	0.018540
218.00	1.02	0.018542
218.20	1.02	0.018544
218.40	1.02	0.018546
218.60	1.02	0.018548
218.80	1.02	0.018550
219.00	1.02	0.018552
219.20	1.02	0.018554
219.40	1.02	0.018555
219.60	1.02	0.018557
219.80	1.02	0.018559
220.00	1.02	0.018561
220.20	1.02	0.018563
220.40	1.02	0.018565
220.60	1.02	0.018567
220.80	1.02	0.018569
221.00	1.02	0.018571
221.20	1.02	0.018572
221.40	1.02	0.018574
221.60	1.02	0.018576
221.80	1.02	0.018578

222.00	1.02	0.018580
222.20	1.02	0.018582
222.40	1.02	0.018584
222.60	1.02	0.018586
222.80	1.02	0.018588
223.00	1.02	0.018590
223.20	1.02	0.018591
223.40	1.02	0.018593
223.60	1.02	0.018595
223.80	1.02	0.018597
224.00	1.02	0.018599
224.20	1.02	0.018601
224.40	1.02	0.018603
224.60	1.02	0.018605
224.80	1.02	0.018607
225.00	1.02	0.018609
225.20	1.02	0.018610
225.40	1.02	0.018612
225.60	1.02	0.018614
225.80	1.02	0.018616
226.00	1.02	0.018618
226.20	1.02	0.018620
226.40	1.02	0.018622
226.60	1.02	0.018624
226.80	1.02	0.018626
227.00	1.02	0.018628
227.20	1.02	0.018630
227.40	1.03	0.018632
227.60	1.03	0.018633
227.80	1.03	0.018635
228.00	1.03	0.018637
228.20	1.03	0.018639
228.40	1.03	0.018641
228.60	1.03	0.018643
228.80	1.03	0.018645
229.00	1.03	0.018647
229.20	1.03	0.018649
229.40	1.03	0.018651
229.60	1.03	0.018653
229.80	1.03	0.018655
230.00	1.03	0.018657
230.20	1.03	0.018658
230.40	1.03	0.018660
230.60	1.03	0.018662
230.80	1.03	0.018664
231.00	1.03	0.018666
231.20	1.03	0.018668
231.40	1.03	0.018670
231.60	1.03	0.018672
231.80	1.03	0.018674
232.00	1.03	0.018676
232.20	1.03	0.018678
232.40	1.03	0.018680
232.60	1.03	0.018682
232.80	1.03	0.018684
233.00	1.03	0.018686
233.20	1.03	0.018688
233.40	1.03	0.018689
233.60	1.03	0.018691
233.80	1.03	0.018693
234.00	1.03	0.018695
234.20	1.03	0.018697
234.40	1.03	0.018699
234.60	1.03	0.018701
234.80	1.03	0.018703
235.00	1.03	0.018705

235.20	1.03	0.018707
235.40	1.03	0.018709
235.60	1.03	0.018711
235.80	1.03	0.018713
236.00	1.03	0.018715
236.20	1.03	0.018717
236.40	1.03	0.018719
236.60	1.03	0.018721
236.80	1.03	0.018723
237.00	1.03	0.018725
237.20	1.03	0.018726
237.40	1.03	0.018728
237.60	1.03	0.018730
237.80	1.03	0.018732
238.00	1.03	0.018734
238.20	1.03	0.018736
238.40	1.03	0.018738
238.60	1.04	0.018740
238.80	1.04	0.018742
239.00	1.04	0.018744
239.20	1.04	0.018746
239.40	1.04	0.018748
239.60	1.04	0.018750
239.80	1.04	0.018752
240.00	1.04	0.018754
240.20	1.04	0.018756
240.40	1.04	0.018758
240.60	1.04	0.018760
240.80	1.04	0.018762
241.00	1.04	0.018764
241.20	1.04	0.018766
241.40	1.04	0.018768
241.60	1.04	0.018770
241.80	1.04	0.018772
242.00	1.04	0.018774
242.20	1.04	0.018776
242.40	1.04	0.018778
242.60	1.04	0.018780
242.80	1.04	0.018782
243.00	1.04	0.018784
243.20	1.04	0.018786
243.40	1.04	0.018788
243.60	1.04	0.018789
243.80	1.04	0.018791
244.00	1.04	0.018793
244.20	1.04	0.018795
244.40	1.04	0.018797
244.60	1.04	0.018799
244.80	1.04	0.018801
245.00	1.04	0.018803
245.20	1.04	0.018805
245.40	1.04	0.018807
245.60	1.04	0.018809
245.80	1.04	0.018811
246.00	1.04	0.018813
246.20	1.04	0.018815
246.40	1.04	0.018817
246.60	1.04	0.018819
246.80	1.04	0.018821
247.00	1.04	0.018823
247.20	1.04	0.018825
247.40	1.04	0.018827
247.60	1.04	0.018829
247.80	1.04	0.018831
248.00	1.04	0.018833
248.20	1.04	0.018835

248.40	1.04	0.018837
248.60	1.04	0.018839
248.80	1.04	0.018841
249.00	1.04	0.018843
249.20	1.04	0.018845
249.40	1.05	0.018847
249.60	1.05	0.018849
249.80	1.05	0.018851
250.00	1.05	0.018853
250.20	1.05	0.018855
250.40	1.05	0.018857
250.60	1.05	0.018859
250.80	1.05	0.018861
251.00	1.05	0.018863
251.20	1.05	0.018865
251.40	1.05	0.018867
251.60	1.05	0.018869
251.80	1.05	0.018871
252.00	1.05	0.018873
252.20	1.05	0.018875
252.40	1.05	0.018877
252.60	1.05	0.018879
252.80	1.05	0.018881
253.00	1.05	0.018884
253.20	1.05	0.018886
253.40	1.05	0.018888
253.60	1.05	0.018890
253.80	1.05	0.018892
254.00	1.05	0.018894
254.20	1.05	0.018896
254.40	1.05	0.018898
254.60	1.05	0.018900
254.80	1.05	0.018902
255.00	1.05	0.018904
255.20	1.05	0.018906
255.40	1.05	0.018908
255.60	1.05	0.018910
255.80	1.05	0.018912
256.00	1.05	0.018914
256.20	1.05	0.018916
256.40	1.05	0.018918
256.60	1.05	0.018920
256.80	1.05	0.018922
257.00	1.05	0.018924
257.20	1.05	0.018926
257.40	1.05	0.018928
257.60	1.05	0.018930
257.80	1.05	0.018932
258.00	1.05	0.018934
258.20	1.05	0.018936
258.40	1.05	0.018938
258.60	1.05	0.018940
258.80	1.05	0.018942
259.00	1.05	0.018944
259.20	1.05	0.018947
259.40	1.05	0.018949
259.60	1.05	0.018951
259.80	1.05	0.018953
260.00	1.05	0.018955
260.20	1.06	0.018957
260.40	1.06	0.018959
260.60	1.06	0.018961
260.80	1.06	0.018963
261.00	1.06	0.018965
261.20	1.06	0.018967
261.40	1.06	0.018969

261.60	1.06	0.018971
261.80	1.06	0.018973
262.00	1.06	0.018975
262.20	1.06	0.018977
262.40	1.06	0.018979
262.60	1.06	0.018981
262.80	1.06	0.018983
263.00	1.06	0.018986
263.20	1.06	0.018988
263.40	1.06	0.018990
263.60	1.06	0.018992
263.80	1.06	0.018994
264.00	1.06	0.018996
264.20	1.06	0.018998
264.40	1.06	0.019000
264.60	1.06	0.019002
264.80	1.06	0.019004
265.00	1.06	0.019006
265.20	1.06	0.019008
265.40	1.06	0.019010
265.60	1.06	0.019012
265.80	1.06	0.019015
266.00	1.06	0.019017
266.20	1.06	0.019019
266.40	1.06	0.019021
266.60	1.06	0.019023
266.80	1.06	0.019025
267.00	1.06	0.019027
267.20	1.06	0.019029
267.40	1.06	0.019031
267.60	1.06	0.019033
267.80	1.06	0.019035
268.00	1.06	0.019037
268.20	1.06	0.019040
268.40	1.06	0.019042
268.60	1.06	0.019044
268.80	1.06	0.019046
269.00	1.06	0.019048
269.20	1.06	0.019050
269.40	1.06	0.019052
269.60	1.06	0.019054
269.80	1.06	0.019056
270.00	1.06	0.019058
270.20	1.06	0.019060
270.40	1.06	0.019062
270.60	1.07	0.019065
270.80	1.07	0.019067
271.00	1.07	0.019069
271.20	1.07	0.019071
271.40	1.07	0.019073
271.60	1.07	0.019075
271.80	1.07	0.019077
272.00	1.07	0.019079
272.20	1.07	0.019081
272.40	1.07	0.019083
272.60	1.07	0.019086
272.80	1.07	0.019088
273.00	1.07	0.019090
273.20	1.07	0.019092
273.40	1.07	0.019094
273.60	1.07	0.019096
273.80	1.07	0.019098
274.00	1.07	0.019100
274.20	1.07	0.019102
274.40	1.07	0.019105
274.60	1.07	0.019107

274.80	1.07	0.019109
275.00	1.07	0.019111
275.20	1.07	0.019113
275.40	1.07	0.019115
275.60	1.07	0.019117
275.80	1.07	0.019119
276.00	1.07	0.019121
276.20	1.07	0.019124
276.40	1.07	0.019126
276.60	1.07	0.019128
276.80	1.07	0.019130
277.00	1.07	0.019132
277.20	1.07	0.019134
277.40	1.07	0.019136
277.60	1.07	0.019139
277.80	1.07	0.019141
278.00	1.07	0.019143
278.20	1.07	0.019145
278.40	1.07	0.019147
278.60	1.07	0.019149
278.80	1.07	0.019151
279.00	1.07	0.019153
279.20	1.07	0.019156
279.40	1.07	0.019158
279.60	1.07	0.019160
279.80	1.07	0.019162
280.00	1.07	0.019164
280.20	1.07	0.019166
280.40	1.07	0.019168
280.60	1.07	0.019171
280.80	1.08	0.019173
281.00	1.08	0.019175
281.20	1.08	0.019177
281.40	1.08	0.019179
281.60	1.08	0.019181
281.80	1.08	0.019183
282.00	1.08	0.019186
282.20	1.08	0.019188
282.40	1.08	0.019190
282.60	1.08	0.019192
282.80	1.08	0.019194
283.00	1.08	0.019196
283.20	1.08	0.019198
283.40	1.08	0.019201
283.60	1.08	0.019203
283.80	1.08	0.019205
284.00	1.08	0.019207
284.20	1.08	0.019209
284.40	1.08	0.019211
284.60	1.08	0.019213
284.80	1.08	0.019216
285.00	1.08	0.019218
285.20	1.08	0.019220
285.40	1.08	0.019222
285.60	1.08	0.019224
285.80	1.08	0.019226
286.00	1.08	0.019229
286.20	1.08	0.019231
286.40	1.08	0.019233
286.60	1.08	0.019235
286.80	1.08	0.019237
287.00	1.08	0.019239
287.20	1.08	0.019242
287.40	1.08	0.019244
287.60	1.08	0.019246
287.80	1.08	0.019248

288.00	1.08	0.019250
288.20	1.08	0.019252
288.40	1.08	0.019255
288.60	1.08	0.019257
288.80	1.08	0.019259
289.00	1.08	0.019261
289.20	1.08	0.019263
289.40	1.08	0.019265
289.60	1.08	0.019268
289.80	1.08	0.019270
290.00	1.08	0.019272
290.20	1.08	0.019274
290.40	1.08	0.019276
290.60	1.08	0.019279
290.80	1.09	0.019281
291.00	1.09	0.019283
291.20	1.09	0.019285
291.40	1.09	0.019287
291.60	1.09	0.019290
291.80	1.09	0.019292
292.00	1.09	0.019294
292.20	1.09	0.019296
292.40	1.09	0.019298
292.60	1.09	0.019300
292.80	1.09	0.019303
293.00	1.09	0.019305
293.20	1.09	0.019307
293.40	1.09	0.019309
293.60	1.09	0.019311
293.80	1.09	0.019314
294.00	1.09	0.019316
294.20	1.09	0.019318
294.40	1.09	0.019320
294.60	1.09	0.019322
294.80	1.09	0.019325
295.00	1.09	0.019327
295.20	1.09	0.019329
295.40	1.09	0.019331
295.60	1.09	0.019333
295.80	1.09	0.019336
296.00	1.09	0.019338
296.20	1.09	0.019340
296.40	1.09	0.019342
296.60	1.09	0.019345
296.80	1.09	0.019347
297.00	1.09	0.019349
297.20	1.09	0.019351
297.40	1.09	0.019353
297.60	1.09	0.019356
297.80	1.09	0.019358
298.00	1.09	0.019360
298.20	1.09	0.019362
298.40	1.09	0.019365
298.60	1.09	0.019367
298.80	1.09	0.019369
299.00	1.09	0.019371
299.20	1.09	0.019373
299.40	1.09	0.019376
299.60	1.09	0.019378
299.80	1.09	0.019380
300.00	1.09	0.019382
300.20	1.09	0.019385
300.40	1.09	0.019387
300.60	1.10	0.019389
300.80	1.10	0.019391
301.00	1.10	0.019394

301.20	1.10	0.019396
301.40	1.10	0.019398
301.60	1.10	0.019400
301.80	1.10	0.019402
302.00	1.10	0.019405
302.20	1.10	0.019407
302.40	1.10	0.019409
302.60	1.10	0.019411
302.80	1.10	0.019414
303.00	1.10	0.019416
303.20	1.10	0.019418
303.40	1.10	0.019420
303.60	1.10	0.019423
303.80	1.10	0.019425
304.00	1.10	0.019427
304.20	1.10	0.019429
304.40	1.10	0.019432
304.60	1.10	0.019434
304.80	1.10	0.019436
305.00	1.10	0.019438
305.20	1.10	0.019441
305.40	1.10	0.019443
305.60	1.10	0.019445
305.80	1.10	0.019447
306.00	1.10	0.019450
306.20	1.10	0.019452
306.40	1.10	0.019454
306.60	1.10	0.019456
306.80	1.10	0.019459
307.00	1.10	0.019461
307.20	1.10	0.019463
307.40	1.10	0.019466
307.60	1.10	0.019468
307.80	1.10	0.019470
308.00	1.10	0.019472
308.20	1.10	0.019475
308.40	1.10	0.019477
308.60	1.10	0.019479
308.80	1.10	0.019481
309.00	1.10	0.019484
309.20	1.10	0.019486
309.40	1.10	0.019488
309.60	1.10	0.019491
309.80	1.10	0.019493
310.00	1.10	0.019495
310.20	1.11	0.019497
310.40	1.11	0.019500
310.60	1.11	0.019502
310.80	1.11	0.019504
311.00	1.11	0.019506
311.20	1.11	0.019509
311.40	1.11	0.019511
311.60	1.11	0.019513
311.80	1.11	0.019516
312.00	1.11	0.019518
312.20	1.11	0.019520
312.40	1.11	0.019522
312.60	1.11	0.019525
312.80	1.11	0.019527
313.00	1.11	0.019529
313.20	1.11	0.019532
313.40	1.11	0.019534
313.60	1.11	0.019536
313.80	1.11	0.019539
314.00	1.11	0.019541
314.20	1.11	0.019543

314.40	1.11	0.019545
314.60	1.11	0.019548
314.80	1.11	0.019550
315.00	1.11	0.019552
315.20	1.11	0.019555
315.40	1.11	0.019557
315.60	1.11	0.019559
315.80	1.11	0.019562
316.00	1.11	0.019564
316.20	1.11	0.019566
316.40	1.11	0.019569
316.60	1.11	0.019571
316.80	1.11	0.019573
317.00	1.11	0.019575
317.20	1.11	0.019578
317.40	1.11	0.019580
317.60	1.11	0.019582
317.80	1.11	0.019585
318.00	1.11	0.019587
318.20	1.11	0.019589
318.40	1.11	0.019592
318.60	1.11	0.019594
318.80	1.11	0.019596
319.00	1.11	0.019599
319.20	1.11	0.019601
319.40	1.11	0.019603
319.60	1.12	0.019606
319.80	1.12	0.019608
320.00	1.12	0.019610
320.20	1.12	0.019613
320.40	1.12	0.019615
320.60	1.12	0.019617
320.80	1.12	0.019620
321.00	1.12	0.019622
321.20	1.12	0.019624
321.40	1.12	0.019627
321.60	1.12	0.019629
321.80	1.12	0.019631
322.00	1.12	0.019634
322.20	1.12	0.019636
322.40	1.12	0.019638
322.60	1.12	0.019641
322.80	1.12	0.019643
323.00	1.12	0.019645
323.20	1.12	0.019648
323.40	1.12	0.019650
323.60	1.12	0.019652
323.80	1.12	0.019655
324.00	1.12	0.019657
324.20	1.12	0.019659
324.40	1.12	0.019662
324.60	1.12	0.019664
324.80	1.12	0.019667
325.00	1.12	0.019669
325.20	1.12	0.019671
325.40	1.12	0.019674
325.60	1.12	0.019676
325.80	1.12	0.019678
326.00	1.12	0.019681
326.20	1.12	0.019683
326.40	1.12	0.019685
326.60	1.12	0.019688
326.80	1.12	0.019690
327.00	1.12	0.019692
327.20	1.12	0.019695
327.40	1.12	0.019697

327.60	1.12	0.019700
327.80	1.12	0.019702
328.00	1.12	0.019704
328.20	1.12	0.019707
328.40	1.12	0.019709
328.60	1.13	0.019711
328.80	1.13	0.019714
329.00	1.13	0.019716
329.20	1.13	0.019719
329.40	1.13	0.019721
329.60	1.13	0.019723
329.80	1.13	0.019726
330.00	1.13	0.019728
330.20	1.13	0.019730
330.40	1.13	0.019733
330.60	1.13	0.019735
330.80	1.13	0.019738
331.00	1.13	0.019740
331.20	1.13	0.019742
331.40	1.13	0.019745
331.60	1.13	0.019747
331.80	1.13	0.019750
332.00	1.13	0.019752
332.20	1.13	0.019754
332.40	1.13	0.019757
332.60	1.13	0.019759
332.80	1.13	0.019762
333.00	1.13	0.019764
333.20	1.13	0.019766
333.40	1.13	0.019769
333.60	1.13	0.019771
333.80	1.13	0.019774
334.00	1.13	0.019776
334.20	1.13	0.019778
334.40	1.13	0.019781
334.60	1.13	0.019783
334.80	1.13	0.019786
335.00	1.13	0.019788
335.20	1.13	0.019790
335.40	1.13	0.019793
335.60	1.13	0.019795
335.80	1.13	0.019798
336.00	1.13	0.019800
336.20	1.13	0.019802
336.40	1.13	0.019805
336.60	1.13	0.019807
336.80	1.13	0.019810
337.00	1.13	0.019812
337.20	1.13	0.019815
337.40	1.13	0.019817
337.60	1.13	0.019819
337.80	1.14	0.019822
338.00	1.14	0.019824
338.20	1.14	0.019827
338.40	1.14	0.019829
338.60	1.14	0.019832
338.80	1.14	0.019834
339.00	1.14	0.019836
339.20	1.14	0.019839
339.40	1.14	0.019841
339.60	1.14	0.019844
339.80	1.14	0.019846
340.00	1.14	0.019849
340.20	1.14	0.019851
340.40	1.14	0.019853
340.60	1.14	0.019856

340.80	1.14	0.019858
341.00	1.14	0.019861
341.20	1.14	0.019863
341.40	1.14	0.019866
341.60	1.14	0.019868
341.80	1.14	0.019871
342.00	1.14	0.019873
342.20	1.14	0.019875
342.40	1.14	0.019878
342.60	1.14	0.019880
342.80	1.14	0.019883
343.00	1.14	0.019885
343.20	1.14	0.019888
343.40	1.14	0.019890
343.60	1.14	0.019893
343.80	1.14	0.019895
344.00	1.14	0.019898
344.20	1.14	0.019900
344.40	1.14	0.019902
344.60	1.14	0.019905
344.80	1.14	0.019907
345.00	1.14	0.019910
345.20	1.14	0.019912
345.40	1.14	0.019915
345.60	1.14	0.019917
345.80	1.14	0.019920
346.00	1.14	0.019922
346.20	1.14	0.019925
346.40	1.14	0.019927
346.60	1.15	0.019930
346.80	1.15	0.019932
347.00	1.15	0.019934
347.20	1.15	0.019937
347.40	1.15	0.019939
347.60	1.15	0.019942
347.80	1.15	0.019944
348.00	1.15	0.019947
348.20	1.15	0.019949
348.40	1.15	0.019952
348.60	1.15	0.019954
348.80	1.15	0.019957
349.00	1.15	0.019959
349.20	1.15	0.019962
349.40	1.15	0.019964
349.60	1.15	0.019967
349.80	1.15	0.019969
350.00	1.15	0.019972
350.20	1.15	0.019974
350.40	1.15	0.019977
350.60	1.15	0.019979
350.80	1.15	0.019982
351.00	1.15	0.019984
351.20	1.15	0.019987
351.40	1.15	0.019989
351.60	1.15	0.019992
351.80	1.15	0.019994
352.00	1.15	0.019997
352.20	1.15	0.019999
352.40	1.15	0.020002
352.60	1.15	0.020004
352.80	1.15	0.020007
353.00	1.15	0.020009
353.20	1.15	0.020012
353.40	1.15	0.020014
353.60	1.15	0.020017
353.80	1.15	0.020019

354.00	1.15	0.020022
354.20	1.15	0.020024
354.40	1.15	0.020027
354.60	1.15	0.020029
354.80	1.15	0.020032
355.00	1.15	0.020034
355.20	1.16	0.020037
355.40	1.16	0.020039
355.60	1.16	0.020042
355.80	1.16	0.020045
356.00	1.16	0.020047
356.20	1.16	0.020050
356.40	1.16	0.020052
356.60	1.16	0.020055
356.80	1.16	0.020057
357.00	1.16	0.020060
357.20	1.16	0.020062
357.40	1.16	0.020065
357.60	1.16	0.020067
357.80	1.16	0.020070
358.00	1.16	0.020072
358.20	1.16	0.020075
358.40	1.16	0.020078
358.60	1.16	0.020080
358.80	1.16	0.020083
359.00	1.16	0.020085
359.20	1.16	0.020088
359.40	1.16	0.020090
359.60	1.16	0.020093
359.80	1.16	0.020095
360.00	1.16	0.020098
360.20	1.16	0.020100
360.40	1.16	0.020103
360.60	1.16	0.020106
360.80	1.16	0.020108
361.00	1.16	0.020111
361.20	1.16	0.020113
361.40	1.16	0.020116
361.60	1.16	0.020118
361.80	1.16	0.020121
362.00	1.16	0.020123
362.20	1.16	0.020126
362.40	1.16	0.020129
362.60	1.16	0.020131
362.80	1.16	0.020134
363.00	1.16	0.020136
363.20	1.16	0.020139
363.40	1.16	0.020141
363.60	1.17	0.020144
363.80	1.17	0.020147
364.00	1.17	0.020149
364.20	1.17	0.020152
364.40	1.17	0.020154
364.60	1.17	0.020157
364.80	1.17	0.020159
365.00	1.17	0.020162
365.20	1.17	0.020165
365.40	1.17	0.020167
365.60	1.17	0.020170
365.80	1.17	0.020172
366.00	1.17	0.020175
366.20	1.17	0.020178
366.40	1.17	0.020180
366.60	1.17	0.020183
366.80	1.17	0.020185
367.00	1.17	0.020188

367.20	1.17	0.020190
367.40	1.17	0.020193
367.60	1.17	0.020196
367.80	1.17	0.020198
368.00	1.17	0.020201
368.20	1.17	0.020203
368.40	1.17	0.020206
368.60	1.17	0.020209
368.80	1.17	0.020211
369.00	1.17	0.020214
369.20	1.17	0.020216
369.40	1.17	0.020219
369.60	1.17	0.020222
369.80	1.17	0.020224
370.00	1.17	0.020227
370.20	1.17	0.020230
370.40	1.17	0.020232
370.60	1.17	0.020235
370.80	1.17	0.020237
371.00	1.17	0.020240
371.20	1.17	0.020243
371.40	1.17	0.020245
371.60	1.17	0.020248
371.80	1.17	0.020250
372.00	1.18	0.020253
372.20	1.18	0.020256
372.40	1.18	0.020258
372.60	1.18	0.020261
372.80	1.18	0.020264
373.00	1.18	0.020266
373.20	1.18	0.020269
373.40	1.18	0.020272
373.60	1.18	0.020274
373.80	1.18	0.020277
374.00	1.18	0.020279
374.20	1.18	0.020282
374.40	1.18	0.020285
374.60	1.18	0.020287
374.80	1.18	0.020290
375.00	1.18	0.020293
375.20	1.18	0.020295
375.40	1.18	0.020298
375.60	1.18	0.020301
375.80	1.18	0.020303
376.00	1.18	0.020306
376.20	1.18	0.020308
376.40	1.18	0.020311
376.60	1.18	0.020314
376.80	1.18	0.020316
377.00	1.18	0.020319
377.20	1.18	0.020322
377.40	1.18	0.020324
377.60	1.18	0.020327
377.80	1.18	0.020330
378.00	1.18	0.020332
378.20	1.18	0.020335
378.40	1.18	0.020338
378.60	1.18	0.020340
378.80	1.18	0.020343
379.00	1.18	0.020346
379.20	1.18	0.020348
379.40	1.18	0.020351
379.60	1.18	0.020354
379.80	1.18	0.020356
380.00	1.18	0.020359
380.20	1.19	0.020362

380.40	1.19	0.020364
380.60	1.19	0.020367
380.80	1.19	0.020370
381.00	1.19	0.020372
381.20	1.19	0.020375
381.40	1.19	0.020378
381.60	1.19	0.020380
381.80	1.19	0.020383
382.00	1.19	0.020386
382.20	1.19	0.020389
382.40	1.19	0.020391
382.60	1.19	0.020394
382.80	1.19	0.020397
383.00	1.19	0.020399
383.20	1.19	0.020402
383.40	1.19	0.020405
383.60	1.19	0.020407
383.80	1.19	0.020410
384.00	1.19	0.020413
384.20	1.19	0.020416
384.40	1.19	0.020418
384.60	1.19	0.020421
384.80	1.19	0.020424
385.00	1.19	0.020426
385.20	1.19	0.020429
385.40	1.19	0.020432
385.60	1.19	0.020434
385.80	1.19	0.020437
386.00	1.19	0.020440
386.20	1.19	0.020443
386.40	1.19	0.020445
386.60	1.19	0.020448
386.80	1.19	0.020451
387.00	1.19	0.020453
387.20	1.19	0.020456
387.40	1.19	0.020459
387.60	1.19	0.020462
387.80	1.19	0.020464
388.00	1.19	0.020467
388.20	1.20	0.020470
388.40	1.20	0.020473
388.60	1.20	0.020475
388.80	1.20	0.020478
389.00	1.20	0.020481
389.20	1.20	0.020483
389.40	1.20	0.020486
389.60	1.20	0.020489
389.80	1.20	0.020492
390.00	1.20	0.020494
390.20	1.20	0.020497
390.40	1.20	0.020500
390.60	1.20	0.020503
390.80	1.20	0.020505
391.00	1.20	0.020508
391.20	1.20	0.020511
391.40	1.20	0.020514
391.60	1.20	0.020516
391.80	1.20	0.020519
392.00	1.20	0.020522
392.20	1.20	0.020525
392.40	1.20	0.020527
392.60	1.20	0.020530
392.80	1.20	0.020533
393.00	1.20	0.020536
393.20	1.20	0.020538
393.40	1.20	0.020541

393.60	1.20	0.020544
393.80	1.20	0.020547
394.00	1.20	0.020549
394.20	1.20	0.020552
394.40	1.20	0.020555
394.60	1.20	0.020558
394.80	1.20	0.020561
395.00	1.20	0.020563
395.20	1.20	0.020566
395.40	1.20	0.020569
395.60	1.20	0.020572
395.80	1.20	0.020574
396.00	1.21	0.020577
396.20	1.21	0.020580
396.40	1.21	0.020583
396.60	1.21	0.020586
396.80	1.21	0.020588
397.00	1.21	0.020591
397.20	1.21	0.020594
397.40	1.21	0.020597
397.60	1.21	0.020599
397.80	1.21	0.020602
398.00	1.21	0.020605
398.20	1.21	0.020608
398.40	1.21	0.020611
398.60	1.21	0.020613
398.80	1.21	0.020616
399.00	1.21	0.020619
399.20	1.21	0.020622
399.40	1.21	0.020625
399.60	1.21	0.020627
399.80	1.21	0.020630
400.00	1.21	0.020633
400.20	1.21	0.020636
400.40	1.21	0.020639
400.60	1.21	0.020641
400.80	1.21	0.020644
401.00	1.21	0.020647
401.20	1.21	0.020650
401.40	1.21	0.020653
401.60	1.21	0.020656
401.80	1.21	0.020658
402.00	1.21	0.020661
402.20	1.21	0.020664
402.40	1.21	0.020667
402.60	1.21	0.020670
402.80	1.21	0.020672
403.00	1.21	0.020675
403.20	1.21	0.020678
403.40	1.21	0.020681
403.60	1.22	0.020684
403.80	1.22	0.020687
404.00	1.22	0.020689
404.20	1.22	0.020692
404.40	1.22	0.020695
404.60	1.22	0.020698
404.80	1.22	0.020701
405.00	1.22	0.020704
405.20	1.22	0.020707
405.40	1.22	0.020709
405.60	1.22	0.020712
405.80	1.22	0.020715
406.00	1.22	0.020718
406.20	1.22	0.020721
406.40	1.22	0.020724
406.60	1.22	0.020726

406.80	1.22	0.020729
407.00	1.22	0.020732
407.20	1.22	0.020735
407.40	1.22	0.020738
407.60	1.22	0.020741
407.80	1.22	0.020744
408.00	1.22	0.020746
408.20	1.22	0.020749
408.40	1.22	0.020752
408.60	1.22	0.020755
408.80	1.22	0.020758
409.00	1.22	0.020761
409.20	1.22	0.020764
409.40	1.22	0.020767
409.60	1.22	0.020769
409.80	1.22	0.020772
410.00	1.22	0.020775
410.20	1.22	0.020778
410.40	1.22	0.020781
410.60	1.22	0.020784
410.80	1.22	0.020787
411.00	1.22	0.020790
411.20	1.23	0.020792
411.40	1.23	0.020795
411.60	1.23	0.020798
411.80	1.23	0.020801
412.00	1.23	0.020804
412.20	1.23	0.020807
412.40	1.23	0.020810
412.60	1.23	0.020813
412.80	1.23	0.020816
413.00	1.23	0.020818
413.20	1.23	0.020821
413.40	1.23	0.020824
413.60	1.23	0.020827
413.80	1.23	0.020830
414.00	1.23	0.020833
414.20	1.23	0.020836
414.40	1.23	0.020839
414.60	1.23	0.020842
414.80	1.23	0.020845
415.00	1.23	0.020847
415.20	1.23	0.020850
415.40	1.23	0.020853
415.60	1.23	0.020856
415.80	1.23	0.020859
416.00	1.23	0.020862
416.20	1.23	0.020865
416.40	1.23	0.020868
416.60	1.23	0.020871
416.80	1.23	0.020874
417.00	1.23	0.020877
417.20	1.23	0.020880
417.40	1.23	0.020883
417.60	1.23	0.020885
417.80	1.23	0.020888
418.00	1.23	0.020891
418.20	1.23	0.020894
418.40	1.23	0.020897
418.60	1.24	0.020900
418.80	1.24	0.020903
419.00	1.24	0.020906
419.20	1.24	0.020909
419.40	1.24	0.020912
419.60	1.24	0.020915
419.80	1.24	0.020918

420.00	1.24	0.020921
420.20	1.24	0.020924
420.40	1.24	0.020927
420.60	1.24	0.020930
420.80	1.24	0.020933
421.00	1.24	0.020936
421.20	1.24	0.020938
421.40	1.24	0.020941
421.60	1.24	0.020944
421.80	1.24	0.020947
422.00	1.24	0.020950
422.20	1.24	0.020953
422.40	1.24	0.020956
422.60	1.24	0.020959
422.80	1.24	0.020962
423.00	1.24	0.020965
423.20	1.24	0.020968
423.40	1.24	0.020971
423.60	1.24	0.020974
423.80	1.24	0.020977
424.00	1.24	0.020980
424.20	1.24	0.020983
424.40	1.24	0.020986
424.60	1.24	0.020989
424.80	1.24	0.020992
425.00	1.24	0.020995
425.20	1.24	0.020998
425.40	1.24	0.021001
425.60	1.24	0.021004
425.80	1.24	0.021007
426.00	1.25	0.021010
426.20	1.25	0.021013
426.40	1.25	0.021016
426.60	1.25	0.021019
426.80	1.25	0.021022
427.00	1.25	0.021025
427.20	1.25	0.021028
427.40	1.25	0.021031
427.60	1.25	0.021034
427.80	1.25	0.021037
428.00	1.25	0.021040
428.20	1.25	0.021043
428.40	1.25	0.021046
428.60	1.25	0.021049
428.80	1.25	0.021052
429.00	1.25	0.021055
429.20	1.25	0.021058
429.40	1.25	0.021061
429.60	1.25	0.021064
429.80	1.25	0.021067
430.00	1.25	0.021070
430.20	1.25	0.021073
430.40	1.25	0.021076
430.60	1.25	0.021079
430.80	1.25	0.021082
431.00	1.25	0.021085
431.20	1.25	0.021088
431.40	1.25	0.021091
431.60	1.25	0.021094
431.80	1.25	0.021097
432.00	1.25	0.021100
432.20	1.25	0.021103
432.40	1.25	0.021107
432.60	1.25	0.021110
432.80	1.25	0.021113
433.00	1.25	0.021116

433.20	1.26	0.021119
433.40	1.26	0.021122
433.60	1.26	0.021125
433.80	1.26	0.021128
434.00	1.26	0.021131
434.20	1.26	0.021134
434.40	1.26	0.021137
434.60	1.26	0.021140
434.80	1.26	0.021143
435.00	1.26	0.021146
435.20	1.26	0.021149
435.40	1.26	0.021152
435.60	1.26	0.021155
435.80	1.26	0.021158
436.00	1.26	0.021162
436.20	1.26	0.021165
436.40	1.26	0.021168
436.60	1.26	0.021171
436.80	1.26	0.021174
437.00	1.26	0.021177
437.20	1.26	0.021180
437.40	1.26	0.021183
437.60	1.26	0.021186
437.80	1.26	0.021189
438.00	1.26	0.021192
438.20	1.26	0.021195
438.40	1.26	0.021198
438.60	1.26	0.021202
438.80	1.26	0.021205
439.00	1.26	0.021208
439.20	1.26	0.021211
439.40	1.26	0.021214
439.60	1.26	0.021217
439.80	1.26	0.021220
440.00	1.26	0.021223
440.20	1.27	0.021226
440.40	1.27	0.021229
440.60	1.27	0.021233
440.80	1.27	0.021236
441.00	1.27	0.021239
441.20	1.27	0.021242
441.40	1.27	0.021245
441.60	1.27	0.021248
441.80	1.27	0.021251
442.00	1.27	0.021254
442.20	1.27	0.021258
442.40	1.27	0.021261
442.60	1.27	0.021264
442.80	1.27	0.021267
443.00	1.27	0.021270
443.20	1.27	0.021273
443.40	1.27	0.021276
443.60	1.27	0.021279
443.80	1.27	0.021283
444.00	1.27	0.021286
444.20	1.27	0.021289
444.40	1.27	0.021292
444.60	1.27	0.021295
444.80	1.27	0.021298
445.00	1.27	0.021301
445.20	1.27	0.021304
445.40	1.27	0.021308
445.60	1.27	0.021311
445.80	1.27	0.021314
446.00	1.27	0.021317
446.20	1.27	0.021320

446.40	1.27	0.021323
446.60	1.27	0.021327
446.80	1.27	0.021330
447.00	1.28	0.021333
447.20	1.28	0.021336
447.40	1.28	0.021339
447.60	1.28	0.021342
447.80	1.28	0.021346
448.00	1.28	0.021349
448.20	1.28	0.021352
448.40	1.28	0.021355
448.60	1.28	0.021358
448.80	1.28	0.021362
449.00	1.28	0.021365
449.20	1.28	0.021368
449.40	1.28	0.021371
449.60	1.28	0.021374
449.80	1.28	0.021377
450.00	1.28	0.021381
450.20	1.28	0.021384
450.40	1.28	0.021387
450.60	1.28	0.021390
450.80	1.28	0.021393
451.00	1.28	0.021397
451.20	1.28	0.021400
451.40	1.28	0.021403
451.60	1.28	0.021406
451.80	1.28	0.021409
452.00	1.28	0.021413
452.20	1.28	0.021416
452.40	1.28	0.021419
452.60	1.28	0.021422
452.80	1.28	0.021425
453.00	1.28	0.021429
453.20	1.28	0.021432
453.40	1.28	0.021435
453.60	1.28	0.021438
453.80	1.29	0.021441
454.00	1.29	0.021445
454.20	1.29	0.021448
454.40	1.29	0.021451
454.60	1.29	0.021454
454.80	1.29	0.021457
455.00	1.29	0.021461
455.20	1.29	0.021464
455.40	1.29	0.021467
455.60	1.29	0.021470
455.80	1.29	0.021474
456.00	1.29	0.021477
456.20	1.29	0.021480
456.40	1.29	0.021483
456.60	1.29	0.021487
456.80	1.29	0.021490
457.00	1.29	0.021493
457.20	1.29	0.021496
457.40	1.29	0.021500
457.60	1.29	0.021503
457.80	1.29	0.021506
458.00	1.29	0.021509
458.20	1.29	0.021513
458.40	1.29	0.021516
458.60	1.29	0.021519
458.80	1.29	0.021522
459.00	1.29	0.021526
459.20	1.29	0.021529
459.40	1.29	0.021532

459.60	1.29	0.021535
459.80	1.29	0.021539
460.00	1.29	0.021542
460.20	1.29	0.021545
460.40	1.30	0.021548
460.60	1.30	0.021552
460.80	1.30	0.021555
461.00	1.30	0.021558
461.20	1.30	0.021562
461.40	1.30	0.021565
461.60	1.30	0.021568
461.80	1.30	0.021571
462.00	1.30	0.021575
462.20	1.30	0.021578
462.40	1.30	0.021581
462.60	1.30	0.021585
462.80	1.30	0.021588
463.00	1.30	0.021591
463.20	1.30	0.021594
463.40	1.30	0.021598
463.60	1.30	0.021601
463.80	1.30	0.021604
464.00	1.30	0.021608
464.20	1.30	0.021611
464.40	1.30	0.021614
464.60	1.30	0.021618
464.80	1.30	0.021621
465.00	1.30	0.021624
465.20	1.30	0.021628
465.40	1.30	0.021631
465.60	1.30	0.021634
465.80	1.30	0.021638
466.00	1.30	0.021641
466.20	1.30	0.021644
466.40	1.30	0.021647
466.60	1.30	0.021651
466.80	1.30	0.021654
467.00	1.31	0.021657
467.20	1.31	0.021661
467.40	1.31	0.021664
467.60	1.31	0.021667
467.80	1.31	0.021671
468.00	1.31	0.021674
468.20	1.31	0.021677
468.40	1.31	0.021681
468.60	1.31	0.021684
468.80	1.31	0.021688
469.00	1.31	0.021691
469.20	1.31	0.021694
469.40	1.31	0.021698
469.60	1.31	0.021701
469.80	1.31	0.021704
470.00	1.31	0.021708
470.20	1.31	0.021711
470.40	1.31	0.021714
470.60	1.31	0.021718
470.80	1.31	0.021721
471.00	1.31	0.021724
471.20	1.31	0.021728
471.40	1.31	0.021731
471.60	1.31	0.021735
471.80	1.31	0.021738
472.00	1.31	0.021741
472.20	1.31	0.021745
472.40	1.31	0.021748
472.60	1.31	0.021751

472.80	1.31	0.021755
473.00	1.31	0.021758
473.20	1.31	0.021762
473.40	1.32	0.021765
473.60	1.32	0.021768
473.80	1.32	0.021772
474.00	1.32	0.021775
474.20	1.32	0.021779
474.40	1.32	0.021782
474.60	1.32	0.021785
474.80	1.32	0.021789
475.00	1.32	0.021792
475.20	1.32	0.021796
475.40	1.32	0.021799
475.60	1.32	0.021802
475.80	1.32	0.021806
476.00	1.32	0.021809
476.20	1.32	0.021813
476.40	1.32	0.021816
476.60	1.32	0.021819
476.80	1.32	0.021823
477.00	1.32	0.021826
477.20	1.32	0.021830
477.40	1.32	0.021833
477.60	1.32	0.021837
477.80	1.32	0.021840
478.00	1.32	0.021843
478.20	1.32	0.021847
478.40	1.32	0.021850
478.60	1.32	0.021854
478.80	1.32	0.021857
479.00	1.32	0.021861
479.20	1.32	0.021864
479.40	1.32	0.021868
479.60	1.32	0.021871
479.80	1.33	0.021874
480.00	1.33	0.021878
480.20	1.33	0.021881
480.40	1.33	0.021885
480.60	1.33	0.021888
480.80	1.33	0.021892
481.00	1.33	0.021895
481.20	1.33	0.021899
481.40	1.33	0.021902
481.60	1.33	0.021906
481.80	1.33	0.021909
482.00	1.33	0.021913
482.20	1.33	0.021916
482.40	1.33	0.021920
482.60	1.33	0.021923
482.80	1.33	0.021926
483.00	1.33	0.021930
483.20	1.33	0.021933
483.40	1.33	0.021937
483.60	1.33	0.021940
483.80	1.33	0.021944
484.00	1.33	0.021947
484.20	1.33	0.021951
484.40	1.33	0.021954
484.60	1.33	0.021958
484.80	1.33	0.021961
485.00	1.33	0.021965
485.20	1.33	0.021968
485.40	1.33	0.021972
485.60	1.33	0.021975
485.80	1.33	0.021979

486.00	1.34	0.021982
486.20	1.34	0.021986
486.40	1.34	0.021989
486.60	1.34	0.021993
486.80	1.34	0.021996
487.00	1.34	0.022000
487.20	1.34	0.022003
487.40	1.34	0.022007
487.60	1.34	0.022011
487.80	1.34	0.022014
488.00	1.34	0.022018
488.20	1.34	0.022021
488.40	1.34	0.022025
488.60	1.34	0.022028
488.80	1.34	0.022032
489.00	1.34	0.022035
489.20	1.34	0.022039
489.40	1.34	0.022042
489.60	1.34	0.022046
489.80	1.34	0.022049
490.00	1.34	0.022053
490.20	1.34	0.022057
490.40	1.34	0.022060
490.60	1.34	0.022064
490.80	1.34	0.022067
491.00	1.34	0.022071
491.20	1.34	0.022074
491.40	1.34	0.022078
491.60	1.34	0.022081
491.80	1.34	0.022085
492.00	1.35	0.022089
492.20	1.35	0.022092
492.40	1.35	0.022096
492.60	1.35	0.022099
492.80	1.35	0.022103
493.00	1.35	0.022106
493.20	1.35	0.022110
493.40	1.35	0.022114
493.60	1.35	0.022117
493.80	1.35	0.022121
494.00	1.35	0.022124
494.20	1.35	0.022128
494.40	1.35	0.022132
494.60	1.35	0.022135
494.80	1.35	0.022139
495.00	1.35	0.022142
495.20	1.35	0.022146
495.40	1.35	0.022150
495.60	1.35	0.022153
495.80	1.35	0.022157
496.00	1.35	0.022160
496.20	1.35	0.022164
496.40	1.35	0.022168
496.60	1.35	0.022171
496.80	1.35	0.022175
497.00	1.35	0.022178
497.20	1.35	0.022182
497.40	1.35	0.022186
497.60	1.35	0.022189
497.80	1.35	0.022193
498.00	1.36	0.022197
498.20	1.36	0.022200
498.40	1.36	0.022204
498.60	1.36	0.022207
498.80	1.36	0.022211
499.00	1.36	0.022215

499.20	1.36	0.022218
499.40	1.36	0.022222
499.60	1.36	0.022226
499.80	1.36	0.022229
500.00	1.36	0.022233
500.20	1.36	0.022237
500.40	1.36	0.022240
500.60	1.36	0.022244
500.80	1.36	0.022248
501.00	1.36	0.022251
501.20	1.36	0.022255
501.40	1.36	0.022258
501.60	1.36	0.022262
501.80	1.36	0.022266
502.00	1.36	0.022269
502.20	1.36	0.022273
502.40	1.36	0.022277
502.60	1.36	0.022281
502.80	1.36	0.022284
503.00	1.36	0.022288
503.20	1.36	0.022292
503.40	1.36	0.022295
503.60	1.36	0.022299
503.80	1.36	0.022303
504.00	1.37	0.022306
504.20	1.37	0.022310
504.40	1.37	0.022314
504.60	1.37	0.022317
504.80	1.37	0.022321
505.00	1.37	0.022325
505.20	1.37	0.022328
505.40	1.37	0.022332
505.60	1.37	0.022336
505.80	1.37	0.022340
506.00	1.37	0.022343
506.20	1.37	0.022347
506.40	1.37	0.022351
506.60	1.37	0.022355
506.80	1.37	0.022358
507.00	1.37	0.022362
507.20	1.37	0.022366
507.40	1.37	0.022369
507.60	1.37	0.022373
507.80	1.37	0.022377
508.00	1.37	0.022381
508.20	1.37	0.022384
508.40	1.37	0.022388
508.60	1.37	0.022392
508.80	1.37	0.022396
509.00	1.37	0.022399
509.20	1.37	0.022403
509.40	1.37	0.022407
509.60	1.37	0.022411
509.80	1.38	0.022414
510.00	1.38	0.022418
510.20	1.38	0.022422
510.40	1.38	0.022426
510.60	1.38	0.022429
510.80	1.38	0.022433
511.00	1.38	0.022437
511.20	1.38	0.022441
511.40	1.38	0.022444
511.60	1.38	0.022448
511.80	1.38	0.022452
512.00	1.38	0.022456
512.20	1.38	0.022459

512.40	1.38	0.022463
512.60	1.38	0.022467
512.80	1.38	0.022471
513.00	1.38	0.022475
513.20	1.38	0.022478
513.40	1.38	0.022482
513.60	1.38	0.022486
513.80	1.38	0.022490
514.00	1.38	0.022494
514.20	1.38	0.022497
514.40	1.38	0.022501
514.60	1.38	0.022505
514.80	1.38	0.022509
515.00	1.38	0.022513
515.20	1.38	0.022516
515.40	1.39	0.022520
515.60	1.39	0.022524
515.80	1.39	0.022528
516.00	1.39	0.022532
516.20	1.39	0.022535
516.40	1.39	0.022539
516.60	1.39	0.022543
516.80	1.39	0.022547
517.00	1.39	0.022551
517.20	1.39	0.022555
517.40	1.39	0.022558
517.60	1.39	0.022562
517.80	1.39	0.022566
518.00	1.39	0.022570
518.20	1.39	0.022574
518.40	1.39	0.022578
518.60	1.39	0.022581
518.80	1.39	0.022585
519.00	1.39	0.022589
519.20	1.39	0.022593
519.40	1.39	0.022597
519.60	1.39	0.022601
519.80	1.39	0.022605
520.00	1.39	0.022608
520.20	1.39	0.022612
520.40	1.39	0.022616
520.60	1.39	0.022620
520.80	1.39	0.022624
521.00	1.39	0.022628
521.20	1.40	0.022632
521.40	1.40	0.022636
521.60	1.40	0.022639
521.80	1.40	0.022643
522.00	1.40	0.022647
522.20	1.40	0.022651
522.40	1.40	0.022655
522.60	1.40	0.022659
522.80	1.40	0.022663
523.00	1.40	0.022667
523.20	1.40	0.022671
523.40	1.40	0.022674
523.60	1.40	0.022678
523.80	1.40	0.022682
524.00	1.40	0.022686
524.20	1.40	0.022690
524.40	1.40	0.022694
524.60	1.40	0.022698
524.80	1.40	0.022702
525.00	1.40	0.022706
525.20	1.40	0.022710
525.40	1.40	0.022714

525.60	1.40	0.022718
525.80	1.40	0.022721
526.00	1.40	0.022725
526.20	1.40	0.022729
526.40	1.40	0.022733
526.60	1.41	0.022737
526.80	1.41	0.022741
527.00	1.41	0.022745
527.20	1.41	0.022749
527.40	1.41	0.022753
527.60	1.41	0.022757
527.80	1.41	0.022761
528.00	1.41	0.022765
528.20	1.41	0.022769
528.40	1.41	0.022773
528.60	1.41	0.022777
528.80	1.41	0.022781
529.00	1.41	0.022785
529.20	1.41	0.022789
529.40	1.41	0.022793
529.60	1.41	0.022797
529.80	1.41	0.022801
530.00	1.41	0.022805
530.20	1.41	0.022809
530.40	1.41	0.022812
530.60	1.41	0.022816
530.80	1.41	0.022820
531.00	1.41	0.022824
531.20	1.41	0.022828
531.40	1.41	0.022832
531.60	1.41	0.022836
531.80	1.41	0.022840
532.00	1.42	0.022844
532.20	1.42	0.022848
532.40	1.42	0.022852
532.60	1.42	0.022856
532.80	1.42	0.022861
533.00	1.42	0.022865
533.20	1.42	0.022869
533.40	1.42	0.022873
533.60	1.42	0.022877
533.80	1.42	0.022881
534.00	1.42	0.022885
534.20	1.42	0.022889
534.40	1.42	0.022893
534.60	1.42	0.022897
534.80	1.42	0.022901
535.00	1.42	0.022905
535.20	1.42	0.022909
535.40	1.42	0.022913
535.60	1.42	0.022917
535.80	1.42	0.022921
536.00	1.42	0.022925
536.20	1.42	0.022929
536.40	1.42	0.022933
536.60	1.42	0.022937
536.80	1.42	0.022941
537.00	1.42	0.022945
537.20	1.42	0.022949
537.40	1.43	0.022953
537.60	1.43	0.022958
537.80	1.43	0.022962
538.00	1.43	0.022966
538.20	1.43	0.022970
538.40	1.43	0.022974
538.60	1.43	0.022978

538.80	1.43	0.022982
539.00	1.43	0.022986
539.20	1.43	0.022990
539.40	1.43	0.022994
539.60	1.43	0.022998
539.80	1.43	0.023002
540.00	1.43	0.023007
540.20	1.43	0.023011
540.40	1.43	0.023015
540.60	1.43	0.023019
540.80	1.43	0.023023
541.00	1.43	0.023027
541.20	1.43	0.023031
541.40	1.43	0.023035
541.60	1.43	0.023039
541.80	1.43	0.023044
542.00	1.43	0.023048
542.20	1.43	0.023052
542.40	1.43	0.023056
542.60	1.43	0.023060
542.80	1.44	0.023064
543.00	1.44	0.023068
543.20	1.44	0.023073
543.40	1.44	0.023077
543.60	1.44	0.023081
543.80	1.44	0.023085
544.00	1.44	0.023089
544.20	1.44	0.023093
544.40	1.44	0.023097
544.60	1.44	0.023102
544.80	1.44	0.023106
545.00	1.44	0.023110
545.20	1.44	0.023114
545.40	1.44	0.023118
545.60	1.44	0.023122
545.80	1.44	0.023127
546.00	1.44	0.023131
546.20	1.44	0.023135
546.40	1.44	0.023139
546.60	1.44	0.023143
546.80	1.44	0.023147
547.00	1.44	0.023152
547.20	1.44	0.023156
547.40	1.44	0.023160
547.60	1.44	0.023164
547.80	1.45	0.023168
548.00	1.45	0.023173
548.20	1.45	0.023177
548.40	1.45	0.023181
548.60	1.45	0.023185
548.80	1.45	0.023189
549.00	1.45	0.023194
549.20	1.45	0.023198
549.40	1.45	0.023202
549.60	1.45	0.023206
549.80	1.45	0.023210
550.00	1.45	0.023215
550.20	1.45	0.023219
550.40	1.45	0.023223
550.60	1.45	0.023227
550.80	1.45	0.023232
551.00	1.45	0.023236
551.20	1.45	0.023240
551.40	1.45	0.023244
551.60	1.45	0.023248
551.80	1.45	0.023253

552.00	1.45	0.023257
552.20	1.45	0.023261
552.40	1.45	0.023266
552.60	1.45	0.023270
552.80	1.45	0.023274
553.00	1.46	0.023278
553.20	1.46	0.023283
553.40	1.46	0.023287
553.60	1.46	0.023291
553.80	1.46	0.023295
554.00	1.46	0.023300
554.20	1.46	0.023304
554.40	1.46	0.023308
554.60	1.46	0.023313
554.80	1.46	0.023317
555.00	1.46	0.023321
555.20	1.46	0.023325
555.40	1.46	0.023330
555.60	1.46	0.023334
555.80	1.46	0.023338
556.00	1.46	0.023343
556.20	1.46	0.023347
556.40	1.46	0.023351
556.60	1.46	0.023356
556.80	1.46	0.023360
557.00	1.46	0.023364
557.20	1.46	0.023369
557.40	1.46	0.023373
557.60	1.46	0.023377
557.80	1.46	0.023381
558.00	1.47	0.023386
558.20	1.47	0.023390
558.40	1.47	0.023395
558.60	1.47	0.023399
558.80	1.47	0.023403
559.00	1.47	0.023408
559.20	1.47	0.023412
559.40	1.47	0.023416
559.60	1.47	0.023421
559.80	1.47	0.023425
560.00	1.47	0.023429
560.20	1.47	0.023434
560.40	1.47	0.023438
560.60	1.47	0.023442
560.80	1.47	0.023447
561.00	1.47	0.023451
561.20	1.47	0.023456
561.40	1.47	0.023460
561.60	1.47	0.023464
561.80	1.47	0.023469
562.00	1.47	0.023473
562.20	1.47	0.023477
562.40	1.47	0.023482
562.60	1.47	0.023486
562.80	1.47	0.023491
563.00	1.48	0.023495
563.20	1.48	0.023499
563.40	1.48	0.023504
563.60	1.48	0.023508
563.80	1.48	0.023513
564.00	1.48	0.023517
564.20	1.48	0.023521
564.40	1.48	0.023526
564.60	1.48	0.023530
564.80	1.48	0.023535
565.00	1.48	0.023539

565.20	1.48	0.023544
565.40	1.48	0.023548
565.60	1.48	0.023552
565.80	1.48	0.023557
566.00	1.48	0.023561
566.20	1.48	0.023566
566.40	1.48	0.023570
566.60	1.48	0.023575
566.80	1.48	0.023579
567.00	1.48	0.023584
567.20	1.48	0.023588
567.40	1.48	0.023592
567.60	1.48	0.023597
567.80	1.49	0.023601
568.00	1.49	0.023606
568.20	1.49	0.023610
568.40	1.49	0.023615
568.60	1.49	0.023619
568.80	1.49	0.023624
569.00	1.49	0.023628
569.20	1.49	0.023633
569.40	1.49	0.023637
569.60	1.49	0.023642
569.80	1.49	0.023646
570.00	1.49	0.023651
570.20	1.49	0.023655
570.40	1.49	0.023660
570.60	1.49	0.023664
570.80	1.49	0.023669
571.00	1.49	0.023673
571.20	1.49	0.023678
571.40	1.49	0.023682
571.60	1.49	0.023687
571.80	1.49	0.023691
572.00	1.49	0.023696
572.20	1.49	0.023700
572.40	1.49	0.023705
572.60	1.50	0.023709
572.80	1.50	0.023714
573.00	1.50	0.023718
573.20	1.50	0.023723
573.40	1.50	0.023728
573.60	1.50	0.023732
573.80	1.50	0.023737
574.00	1.50	0.023741
574.20	1.50	0.023746
574.40	1.50	0.023750
574.60	1.50	0.023755
574.80	1.50	0.023759
575.00	1.50	0.023764
575.20	1.50	0.023769
575.40	1.50	0.023773
575.60	1.50	0.023777
575.80	1.50	0.023782
576.00	1.50	0.023786
576.20	1.50	0.023790
576.40	1.50	0.023794
576.60	1.51	0.023799
576.80	1.51	0.023803
577.00	1.51	0.023807
577.20	1.51	0.023811
577.40	1.51	0.023815
577.60	1.51	0.023819
577.80	1.51	0.023822
578.00	1.51	0.023826
578.20	1.51	0.023830

578.40	1.51	0.023834
578.60	1.51	0.023838
578.80	1.51	0.023842
579.00	1.51	0.023845
579.20	1.51	0.023849
579.40	1.51	0.023853
579.60	1.51	0.023856
579.80	1.51	0.023860
580.00	1.51	0.023864
580.20	1.52	0.023867
580.40	1.52	0.023871
580.60	1.52	0.023874
580.80	1.52	0.023878
581.00	1.52	0.023881
581.20	1.52	0.023885
581.40	1.52	0.023888
581.60	1.52	0.023892
581.80	1.52	0.023895
582.00	1.52	0.023899
582.20	1.52	0.023902
582.40	1.52	0.023906
582.60	1.52	0.023909
582.80	1.52	0.023912
583.00	1.52	0.023916
583.20	1.52	0.023919
583.40	1.52	0.023923
583.60	1.52	0.023926
583.80	1.52	0.023929
584.00	1.52	0.023933
584.20	1.52	0.023936
584.40	1.53	0.023939
584.60	1.53	0.023942
584.80	1.53	0.023946
585.00	1.53	0.023949
585.20	1.53	0.023952
585.40	1.53	0.023956
585.60	1.53	0.023959
585.80	1.53	0.023962
586.00	1.53	0.023966
586.20	1.53	0.023969
586.40	1.53	0.023972
586.60	1.53	0.023975
586.80	1.53	0.023979
587.00	1.53	0.023982
587.20	1.53	0.023985
587.40	1.53	0.023988
587.60	1.53	0.023992
587.80	1.53	0.023995
588.00	1.53	0.023998
588.20	1.53	0.024001
588.40	1.53	0.024004
588.60	1.54	0.024008
588.80	1.54	0.024011
589.00	1.54	0.024014
589.20	1.54	0.024017
589.40	1.54	0.024021
589.60	1.54	0.024024
589.80	1.54	0.024027
590.00	1.54	0.024030
590.20	1.54	0.024033
590.40	1.54	0.024037
590.60	1.54	0.024040
590.80	1.54	0.024043
591.00	1.54	0.024046
591.20	1.54	0.024049
591.40	1.54	0.024053

591.60	1.54	0.024056
591.80	1.54	0.024059
592.00	1.54	0.024062
592.20	1.54	0.024065
592.40	1.54	0.024069
592.60	1.54	0.024072
592.80	1.54	0.024075
593.00	1.55	0.024078
593.20	1.55	0.024081
593.40	1.55	0.024085
593.60	1.55	0.024088
593.80	1.55	0.024091
594.00	1.55	0.024094
594.20	1.55	0.024098
594.40	1.55	0.024101
594.60	1.55	0.024104
594.80	1.55	0.024107
595.00	1.55	0.024110
595.20	1.55	0.024114
595.40	1.55	0.024117
595.60	1.55	0.024120
595.80	1.55	0.024123
596.00	1.55	0.024126
596.20	1.55	0.024130
596.40	1.55	0.024133
596.60	1.55	0.024136
596.80	1.55	0.024139
597.00	1.55	0.024143
597.20	1.55	0.024146
597.40	1.56	0.024149
597.60	1.56	0.024152
597.80	1.56	0.024155
598.00	1.56	0.024159
598.20	1.56	0.024162
598.40	1.56	0.024165
598.60	1.56	0.024168
598.80	1.56	0.024172
599.00	1.56	0.024175
599.20	1.56	0.024178
599.40	1.56	0.024181
599.60	1.56	0.024185
599.80	1.56	0.024188
600.00	1.56	0.024191
600.20	1.56	0.024194
600.40	1.56	0.024198
600.60	1.56	0.024201
600.80	1.56	0.024204
601.00	1.56	0.024207
601.20	1.56	0.024211
601.40	1.56	0.024214
601.60	1.57	0.024217
601.80	1.57	0.024220
602.00	1.57	0.024224
602.20	1.57	0.024227
602.40	1.57	0.024230
602.60	1.57	0.024233
602.80	1.57	0.024237
603.00	1.57	0.024240
603.20	1.57	0.024243
603.40	1.57	0.024247
603.60	1.57	0.024250
603.80	1.57	0.024253
604.00	1.57	0.024256
604.20	1.57	0.024260
604.40	1.57	0.024263
604.60	1.57	0.024266

604.80	1.57	0.024270
605.00	1.57	0.024273
605.20	1.57	0.024276
605.40	1.57	0.024279
605.60	1.57	0.024283
605.80	1.57	0.024286
606.00	1.58	0.024289
606.20	1.58	0.024293
606.40	1.58	0.024296
606.60	1.58	0.024299
606.80	1.58	0.024303
607.00	1.58	0.024306
607.20	1.58	0.024309
607.40	1.58	0.024312
607.60	1.58	0.024316
607.80	1.58	0.024319
608.00	1.58	0.024322
608.20	1.58	0.024326
608.40	1.58	0.024329
608.60	1.58	0.024332
608.80	1.58	0.024336
609.00	1.58	0.024339
609.20	1.58	0.024342
609.40	1.58	0.024346
609.60	1.58	0.024349
609.80	1.58	0.024353
610.00	1.58	0.024356
610.20	1.59	0.024359
610.40	1.59	0.024363
610.60	1.59	0.024366
610.80	1.59	0.024369
611.00	1.59	0.024373
611.20	1.59	0.024376
611.40	1.59	0.024379
611.60	1.59	0.024383
611.80	1.59	0.024386
612.00	1.59	0.024389
612.20	1.59	0.024393
612.40	1.59	0.024396
612.60	1.59	0.024400
612.80	1.59	0.024403
613.00	1.59	0.024406
613.20	1.59	0.024410
613.40	1.59	0.024413
613.60	1.59	0.024417
613.80	1.59	0.024420
614.00	1.59	0.024423
614.20	1.60	0.024427
614.40	1.60	0.024430
614.60	1.60	0.024434
614.80	1.60	0.024437
615.00	1.60	0.024440
615.20	1.60	0.024444
615.40	1.60	0.024447
615.60	1.60	0.024451
615.80	1.60	0.024454
616.00	1.60	0.024457
616.20	1.60	0.024461
616.40	1.60	0.024464
616.60	1.60	0.024468
616.80	1.60	0.024471
617.00	1.60	0.024474
617.20	1.60	0.024478
617.40	1.60	0.024481
617.60	1.60	0.024485
617.80	1.60	0.024488

618.00	1.60	0.024492
618.20	1.60	0.024495
618.40	1.61	0.024499
618.60	1.61	0.024502
618.80	1.61	0.024505
619.00	1.61	0.024509
619.20	1.61	0.024512
619.40	1.61	0.024516
619.60	1.61	0.024519
619.80	1.61	0.024523
620.00	1.61	0.024526
620.20	1.61	0.024530
620.40	1.61	0.024533
620.60	1.61	0.024537
620.80	1.61	0.024540
621.00	1.61	0.024543
621.20	1.61	0.024547
621.40	1.61	0.024550
621.60	1.61	0.024554
621.80	1.61	0.024557
622.00	1.61	0.024561
622.20	1.61	0.024564
622.40	1.62	0.024568
622.60	1.62	0.024571
622.80	1.62	0.024575
623.00	1.62	0.024578
623.20	1.62	0.024582
623.40	1.62	0.024585
623.60	1.62	0.024589
623.80	1.62	0.024592
624.00	1.62	0.024596
624.20	1.62	0.024599
624.40	1.62	0.024603
624.60	1.62	0.024606
624.80	1.62	0.024610
625.00	1.62	0.024614
625.20	1.62	0.024617
625.40	1.62	0.024621
625.60	1.62	0.024624
625.80	1.62	0.024628
626.00	1.62	0.024631
626.20	1.62	0.024635
626.40	1.63	0.024638
626.60	1.63	0.024642
626.80	1.63	0.024645
627.00	1.63	0.024649
627.20	1.63	0.024653
627.40	1.63	0.024656
627.60	1.63	0.024660
627.80	1.63	0.024663
628.00	1.63	0.024667
628.20	1.63	0.024670
628.40	1.63	0.024674
628.60	1.63	0.024677
628.80	1.63	0.024681
629.00	1.63	0.024685
629.20	1.63	0.024688
629.40	1.63	0.024692
629.60	1.63	0.024695
629.80	1.63	0.024699
630.00	1.63	0.024703
630.20	1.64	0.024706
630.40	1.64	0.024710
630.60	1.64	0.024713
630.80	1.64	0.024717
631.00	1.64	0.024720

631.20	1.64	0.024724
631.40	1.64	0.024728
631.60	1.64	0.024731
631.80	1.64	0.024735
632.00	1.64	0.024738
632.20	1.64	0.024742
632.40	1.64	0.024746
632.60	1.64	0.024749
632.80	1.64	0.024753
633.00	1.64	0.024757
633.20	1.64	0.024760
633.40	1.64	0.024764
633.60	1.64	0.024767
633.80	1.64	0.024771
634.00	1.64	0.024775
634.20	1.65	0.024778
634.40	1.65	0.024782
634.60	1.65	0.024786
634.80	1.65	0.024789
635.00	1.65	0.024793
635.20	1.65	0.024797
635.40	1.65	0.024800
635.60	1.65	0.024804
635.80	1.65	0.024808
636.00	1.65	0.024811
636.20	1.65	0.024815
636.40	1.65	0.024819
636.60	1.65	0.024822
636.80	1.65	0.024826
637.00	1.65	0.024830
637.20	1.65	0.024833
637.40	1.65	0.024837
637.60	1.65	0.024841
637.80	1.65	0.024844
638.00	1.66	0.024848
638.20	1.66	0.024852
638.40	1.66	0.024855
638.60	1.66	0.024859
638.80	1.66	0.024863
639.00	1.66	0.024867
639.20	1.66	0.024870
639.40	1.66	0.024874
639.60	1.66	0.024878
639.80	1.66	0.024881
640.00	1.66	0.024885
640.20	1.66	0.024889
640.40	1.66	0.024893
640.60	1.66	0.024896
640.80	1.66	0.024900
641.00	1.66	0.024904
641.20	1.66	0.024908
641.40	1.66	0.024911
641.60	1.66	0.024915
641.80	1.67	0.024919
642.00	1.67	0.024922
642.20	1.67	0.024926
642.40	1.67	0.024930
642.60	1.67	0.024934
642.80	1.67	0.024937
643.00	1.67	0.024941
643.20	1.67	0.024945
643.40	1.67	0.024949
643.60	1.67	0.024953
643.80	1.67	0.024956
644.00	1.67	0.024960
644.20	1.67	0.024964

644.40	1.67	0.024968
644.60	1.67	0.024971
644.80	1.67	0.024975
645.00	1.67	0.024979
645.20	1.67	0.024983
645.40	1.68	0.024987
645.60	1.68	0.024990
645.80	1.68	0.024994
646.00	1.68	0.024998
646.20	1.68	0.025002
646.40	1.68	0.025006
646.60	1.68	0.025009
646.80	1.68	0.025013
647.00	1.68	0.025017
647.20	1.68	0.025021
647.40	1.68	0.025025
647.60	1.68	0.025028
647.80	1.68	0.025032
648.00	1.68	0.025036
648.20	1.68	0.025040
648.40	1.68	0.025044
648.60	1.68	0.025048
648.80	1.68	0.025051
649.00	1.69	0.025055
649.20	1.69	0.025059
649.40	1.69	0.025063
649.60	1.69	0.025067
649.80	1.69	0.025071
650.00	1.69	0.025075
650.20	1.69	0.025078
650.40	1.69	0.025082
650.60	1.69	0.025086
650.80	1.69	0.025090
651.00	1.69	0.025094
651.20	1.69	0.025098
651.40	1.69	0.025102
651.60	1.69	0.025105
651.80	1.69	0.025109
652.00	1.69	0.025113
652.20	1.69	0.025117
652.40	1.69	0.025121
652.60	1.69	0.025125
652.80	1.70	0.025129
653.00	1.70	0.025133
653.20	1.70	0.025137
653.40	1.70	0.025140
653.60	1.70	0.025144
653.80	1.70	0.025148
654.00	1.70	0.025152
654.20	1.70	0.025156
654.40	1.70	0.025160
654.60	1.70	0.025164
654.80	1.70	0.025168
655.00	1.70	0.025172
655.20	1.70	0.025176
655.40	1.70	0.025180
655.60	1.70	0.025184
655.80	1.70	0.025188
656.00	1.70	0.025191
656.20	1.71	0.025195
656.40	1.71	0.025199
656.60	1.71	0.025203
656.80	1.71	0.025207
657.00	1.71	0.025211
657.20	1.71	0.025215
657.40	1.71	0.025219

657.60	1.71	0.025223
657.80	1.71	0.025227
658.00	1.71	0.025231
658.20	1.71	0.025235
658.40	1.71	0.025239
658.60	1.71	0.025243
658.80	1.71	0.025247
659.00	1.71	0.025251
659.20	1.71	0.025255
659.40	1.71	0.025259
659.60	1.71	0.025263
659.80	1.72	0.025267
660.00	1.72	0.025271
660.20	1.72	0.025275
660.40	1.72	0.025279
660.60	1.72	0.025283
660.80	1.72	0.025287
661.00	1.72	0.025291
661.20	1.72	0.025295
661.40	1.72	0.025299
661.60	1.72	0.025303
661.80	1.72	0.025307
662.00	1.72	0.025311
662.20	1.72	0.025315
662.40	1.72	0.025319
662.60	1.72	0.025323
662.80	1.72	0.025327
663.00	1.72	0.025331
663.20	1.73	0.025335
663.40	1.73	0.025339
663.60	1.73	0.025343
663.80	1.73	0.025348
664.00	1.73	0.025352
664.20	1.73	0.025356
664.40	1.73	0.025360
664.60	1.73	0.025364
664.80	1.73	0.025368
665.00	1.73	0.025372
665.20	1.73	0.025376
665.40	1.73	0.025380
665.60	1.73	0.025384
665.80	1.73	0.025388
666.00	1.73	0.025392
666.20	1.73	0.025396
666.40	1.73	0.025401
666.60	1.74	0.025405
666.80	1.74	0.025409
667.00	1.74	0.025413
667.20	1.74	0.025417
667.40	1.74	0.025421
667.60	1.74	0.025425
667.80	1.74	0.025429
668.00	1.74	0.025433
668.20	1.74	0.025438
668.40	1.74	0.025442
668.60	1.74	0.025446
668.80	1.74	0.025450
669.00	1.74	0.025454
669.20	1.74	0.025458
669.40	1.74	0.025462
669.60	1.74	0.025467
669.80	1.74	0.025471
670.00	1.75	0.025475
670.20	1.75	0.025479
670.40	1.75	0.025483
670.60	1.75	0.025487

670.80	1.75	0.025492
671.00	1.75	0.025496
671.20	1.75	0.025500
671.40	1.75	0.025504
671.60	1.75	0.025508
671.80	1.75	0.025512
672.00	1.75	0.025517
672.20	1.75	0.025521
672.40	1.75	0.025525
672.60	1.75	0.025529
672.80	1.75	0.025533
673.00	1.75	0.025538
673.20	1.75	0.025542
673.40	1.76	0.025546
673.60	1.76	0.025550
673.80	1.76	0.025554
674.00	1.76	0.025559
674.20	1.76	0.025563
674.40	1.76	0.025567
674.60	1.76	0.025571
674.80	1.76	0.025576
675.00	1.76	0.025580
675.20	1.76	0.025584
675.40	1.76	0.025588
675.60	1.76	0.025593
675.80	1.76	0.025597
676.00	1.76	0.025601
676.20	1.76	0.025605
676.40	1.76	0.025610
676.60	1.76	0.025614
676.80	1.77	0.025618
677.00	1.77	0.025622
677.20	1.77	0.025627
677.40	1.77	0.025631
677.60	1.77	0.025635
677.80	1.77	0.025640
678.00	1.77	0.025644
678.20	1.77	0.025648
678.40	1.77	0.025652
678.60	1.77	0.025657
678.80	1.77	0.025661
679.00	1.77	0.025665
679.20	1.77	0.025670
679.40	1.77	0.025674
679.60	1.77	0.025678
679.80	1.77	0.025683
680.00	1.78	0.025687
680.20	1.78	0.025691
680.40	1.78	0.025695
680.60	1.78	0.025700
680.80	1.78	0.025704
681.00	1.78	0.025708
681.20	1.78	0.025713
681.40	1.78	0.025717
681.60	1.78	0.025722
681.80	1.78	0.025726
682.00	1.78	0.025730
682.20	1.78	0.025735
682.40	1.78	0.025739
682.60	1.78	0.025743
682.80	1.78	0.025748
683.00	1.78	0.025752
683.20	1.79	0.025756
683.40	1.79	0.025761
683.60	1.79	0.025765
683.80	1.79	0.025770

684.00	1.79	0.025774
684.20	1.79	0.025778
684.40	1.79	0.025783
684.60	1.79	0.025787
684.80	1.79	0.025792
685.00	1.79	0.025796
685.20	1.79	0.025800
685.40	1.79	0.025805
685.60	1.79	0.025809
685.80	1.79	0.025814
686.00	1.79	0.025818
686.20	1.79	0.025822
686.40	1.80	0.025827
686.60	1.80	0.025831
686.80	1.80	0.025836
687.00	1.80	0.025840
687.20	1.80	0.025845
687.40	1.80	0.025849
687.60	1.80	0.025854
687.80	1.80	0.025858
688.00	1.80	0.025862
688.20	1.80	0.025867
688.40	1.80	0.025871
688.60	1.80	0.025876
688.80	1.80	0.025880
689.00	1.80	0.025885
689.20	1.80	0.025889
689.40	1.80	0.025894
689.60	1.81	0.025898
689.80	1.81	0.025903
690.00	1.81	0.025907
690.20	1.81	0.025912
690.40	1.81	0.025916
690.60	1.81	0.025921
690.80	1.81	0.025925
691.00	1.81	0.025930
691.20	1.81	0.025934
691.40	1.81	0.025939
691.60	1.81	0.025943
691.80	1.81	0.025948
692.00	1.81	0.025952
692.20	1.81	0.025957
692.40	1.81	0.025961
692.60	1.82	0.025966
692.80	1.82	0.025970
693.00	1.82	0.025975
693.20	1.82	0.025980
693.40	1.82	0.025984
693.60	1.82	0.025989
693.80	1.82	0.025993
694.00	1.82	0.025998
694.20	1.82	0.026002
694.40	1.82	0.026007
694.60	1.82	0.026012
694.80	1.82	0.026016
695.00	1.82	0.026021
695.20	1.82	0.026025
695.40	1.82	0.026030
695.60	1.83	0.026034
695.80	1.83	0.026039
696.00	1.83	0.026044
696.20	1.83	0.026048
696.40	1.83	0.026053
696.60	1.83	0.026058
696.80	1.83	0.026062
697.00	1.83	0.026067

697.20	1.83	0.026071
697.40	1.83	0.026076
697.60	1.83	0.026081
697.80	1.83	0.026085
698.00	1.83	0.026090
698.20	1.83	0.026095
698.40	1.83	0.026099
698.60	1.84	0.026104
698.80	1.84	0.026109
699.00	1.84	0.026113
699.20	1.84	0.026118
699.40	1.84	0.026123
699.60	1.84	0.026127
699.80	1.84	0.026132
700.00	1.84	0.026137
700.20	1.84	0.026141
700.40	1.84	0.026146
700.60	1.84	0.026151
700.80	1.84	0.026155
701.00	1.84	0.026160
701.20	1.84	0.026165
701.40	1.84	0.026169
701.60	1.85	0.026174
701.80	1.85	0.026179
702.00	1.85	0.026184
702.20	1.85	0.026188
702.40	1.85	0.026193
702.60	1.85	0.026198
702.80	1.85	0.026202
703.00	1.85	0.026207
703.20	1.85	0.026212
703.40	1.85	0.026217
703.60	1.85	0.026221
703.80	1.85	0.026226
704.00	1.85	0.026231
704.20	1.85	0.026236
704.40	1.85	0.026240
704.60	1.86	0.026245
704.80	1.86	0.026250
705.00	1.86	0.026255
705.20	1.86	0.026260
705.40	1.86	0.026264
705.60	1.86	0.026269
705.80	1.86	0.026274
706.00	1.86	0.026279
706.20	1.86	0.026284
706.40	1.86	0.026288
706.60	1.86	0.026293
706.80	1.86	0.026298
707.00	1.86	0.026303
707.20	1.86	0.026308
707.40	1.86	0.026312
707.60	1.87	0.026317
707.80	1.87	0.026322
708.00	1.87	0.026327
708.20	1.87	0.026332
708.40	1.87	0.026337
708.60	1.87	0.026342
708.80	1.87	0.026346
709.00	1.87	0.026351
709.20	1.87	0.026356
709.40	1.87	0.026361
709.60	1.87	0.026366
709.80	1.87	0.026371
710.00	1.87	0.026376
710.20	1.87	0.026380

710.40	1.88	0.026385
710.60	1.88	0.026390
710.80	1.88	0.026395
711.00	1.88	0.026400
711.20	1.88	0.026405
711.40	1.88	0.026410
711.60	1.88	0.026415
711.80	1.88	0.026420
712.00	1.88	0.026424
712.20	1.88	0.026429
712.40	1.88	0.026434
712.60	1.88	0.026439
712.80	1.88	0.026444
713.00	1.88	0.026449
713.20	1.89	0.026454
713.40	1.89	0.026459
713.60	1.89	0.026464
713.80	1.89	0.026469
714.00	1.89	0.026474
714.20	1.89	0.026479
714.40	1.89	0.026484
714.60	1.89	0.026489
714.80	1.89	0.026494
715.00	1.89	0.026499
715.20	1.89	0.026504
715.40	1.89	0.026509
715.60	1.89	0.026514
715.80	1.89	0.026519
716.00	1.90	0.026524
716.20	1.90	0.026529
716.40	1.90	0.026534
716.60	1.90	0.026539
716.80	1.90	0.026544
717.00	1.90	0.026549
717.20	1.90	0.026554
717.40	1.90	0.026559
717.60	1.90	0.026564
717.80	1.90	0.026569
718.00	1.90	0.026574
718.20	1.90	0.026579
718.40	1.90	0.026584
718.60	1.90	0.026589
718.80	1.91	0.026594
719.00	1.91	0.026599
719.20	1.91	0.026604
719.40	1.91	0.026609
719.60	1.91	0.026614
719.80	1.91	0.026619
720.00	1.91	0.026625
720.20	1.91	0.026630
720.40	1.91	0.026635
720.60	1.91	0.026640
720.80	1.91	0.026645
721.00	1.91	0.026650
721.20	1.91	0.026655
721.40	1.91	0.026660
721.60	1.92	0.026665
721.80	1.92	0.026671
722.00	1.92	0.026676
722.20	1.92	0.026681
722.40	1.92	0.026686
722.60	1.92	0.026691
722.80	1.92	0.026696
723.00	1.92	0.026701
723.20	1.92	0.026706
723.40	1.92	0.026712

723.60	1.92	0.026717
723.80	1.92	0.026722
724.00	1.92	0.026727
724.20	1.92	0.026732
724.40	1.93	0.026738
724.60	1.93	0.026743
724.80	1.93	0.026748
725.00	1.93	0.026753
725.20	1.93	0.026758
725.40	1.93	0.026764
725.60	1.93	0.026769
725.80	1.93	0.026774
726.00	1.93	0.026779
726.20	1.93	0.026784
726.40	1.93	0.026790
726.60	1.93	0.026795
726.80	1.93	0.026800
727.00	1.94	0.026805
727.20	1.94	0.026811
727.40	1.94	0.026816
727.60	1.94	0.026821
727.80	1.94	0.026826
728.00	1.94	0.026832
728.20	1.94	0.026837
728.40	1.94	0.026842
728.60	1.94	0.026847
728.80	1.94	0.026853
729.00	1.94	0.026858
729.20	1.94	0.026863
729.40	1.94	0.026869
729.60	1.95	0.026874
729.80	1.95	0.026879
730.00	1.95	0.026884
730.20	1.95	0.026890
730.40	1.95	0.026895
730.60	1.95	0.026900
730.80	1.95	0.026906
731.00	1.95	0.026911
731.20	1.95	0.026916
731.40	1.95	0.026922
731.60	1.95	0.026927
731.80	1.95	0.026932
732.00	1.95	0.026938
732.20	1.96	0.026943
732.40	1.96	0.026949
732.60	1.96	0.026954
732.80	1.96	0.026959
733.00	1.96	0.026965
733.20	1.96	0.026970
733.40	1.96	0.026975
733.60	1.96	0.026981
733.80	1.96	0.026986
734.00	1.96	0.026992
734.20	1.96	0.026997
734.40	1.96	0.027002
734.60	1.96	0.027008
734.80	1.97	0.027013
735.00	1.97	0.027019
735.20	1.97	0.027024
735.40	1.97	0.027030
735.60	1.97	0.027035
735.80	1.97	0.027041
736.00	1.97	0.027046
736.20	1.97	0.027051
736.40	1.97	0.027057
736.60	1.97	0.027062

736.80	1.97	0.027068
737.00	1.97	0.027073
737.20	1.97	0.027079
737.40	1.98	0.027084
737.60	1.98	0.027090
737.80	1.98	0.027095
738.00	1.98	0.027101
738.20	1.98	0.027106
738.40	1.98	0.027112
738.60	1.98	0.027117
738.80	1.98	0.027123
739.00	1.98	0.027128
739.20	1.98	0.027134
739.40	1.98	0.027139
739.60	1.98	0.027145
739.80	1.98	0.027151
740.00	1.99	0.027156
740.20	1.99	0.027162
740.40	1.99	0.027167
740.60	1.99	0.027173
740.80	1.99	0.027178
741.00	1.99	0.027184
741.20	1.99	0.027189
741.40	1.99	0.027195
741.60	1.99	0.027201
741.80	1.99	0.027206
742.00	1.99	0.027212
742.20	1.99	0.027217
742.40	2.00	0.027223
742.60	2.00	0.027229
742.80	2.00	0.027234
743.00	2.00	0.027240
743.20	2.00	0.027246
743.40	2.00	0.027251
743.60	2.00	0.027257
743.80	2.00	0.027262
744.00	2.00	0.027268
744.20	2.00	0.027274
744.40	2.00	0.027279
744.60	2.00	0.027285
744.80	2.00	0.027291
745.00	2.01	0.027296
745.20	2.01	0.027302
745.40	2.01	0.027308
745.60	2.01	0.027313
745.80	2.01	0.027319
746.00	2.01	0.027325
746.20	2.01	0.027331
746.40	2.01	0.027336
746.60	2.01	0.027342
746.80	2.01	0.027348
747.00	2.01	0.027353
747.20	2.01	0.027359
747.40	2.02	0.027365
747.60	2.02	0.027371
747.80	2.02	0.027376
748.00	2.02	0.027382
748.20	2.02	0.027388
748.40	2.02	0.027394
748.60	2.02	0.027400
748.80	2.02	0.027405
749.00	2.02	0.027411
749.20	2.02	0.027417
749.40	2.02	0.027423
749.60	2.02	0.027428
749.80	2.03	0.027434

750.00	2.03	0.027440
750.20	2.03	0.027446
750.40	2.03	0.027452
750.60	2.03	0.027457
750.80	2.03	0.027463
751.00	2.03	0.027469
751.20	2.03	0.027475
751.40	2.03	0.027481
751.60	2.03	0.027487
751.80	2.03	0.027493
752.00	2.03	0.027498
752.20	2.04	0.027504
752.40	2.04	0.027510
752.60	2.04	0.027516
752.80	2.04	0.027522
753.00	2.04	0.027528
753.20	2.04	0.027534
753.40	2.04	0.027540
753.60	2.04	0.027545
753.80	2.04	0.027551
754.00	2.04	0.027557
754.20	2.04	0.027563
754.40	2.04	0.027569
754.60	2.05	0.027575
754.80	2.05	0.027581
755.00	2.05	0.027587
755.20	2.05	0.027593
755.40	2.05	0.027599
755.60	2.05	0.027605
755.80	2.05	0.027611
756.00	2.05	0.027617
756.20	2.05	0.027623
756.40	2.05	0.027629
756.60	2.05	0.027635
756.80	2.05	0.027641
757.00	2.06	0.027647
757.20	2.06	0.027653
757.40	2.06	0.027659
757.60	2.06	0.027665
757.80	2.06	0.027671
758.00	2.06	0.027677
758.20	2.06	0.027683
758.40	2.06	0.027689
758.60	2.06	0.027695
758.80	2.06	0.027701
759.00	2.06	0.027707
759.20	2.07	0.027713
759.40	2.07	0.027719
759.60	2.07	0.027725
759.80	2.07	0.027731
760.00	2.07	0.027737
760.20	2.07	0.027743
760.40	2.07	0.027750
760.60	2.07	0.027756
760.80	2.07	0.027762
761.00	2.07	0.027768
761.20	2.07	0.027774
761.40	2.07	0.027780
761.60	2.08	0.027786
761.80	2.08	0.027792
762.00	2.08	0.027798
762.20	2.08	0.027805
762.40	2.08	0.027811
762.60	2.08	0.027817
762.80	2.08	0.027823
763.00	2.08	0.027829

763.20	2.08	0.027835
763.40	2.08	0.027842
763.60	2.08	0.027848
763.80	2.09	0.027854
764.00	2.09	0.027860
764.20	2.09	0.027866
764.40	2.09	0.027873
764.60	2.09	0.027879
764.80	2.09	0.027885
765.00	2.09	0.027891
765.20	2.09	0.027897
765.40	2.09	0.027904
765.60	2.09	0.027910
765.80	2.09	0.027916
766.00	2.10	0.027922
766.20	2.10	0.027929
766.40	2.10	0.027935
766.60	2.10	0.027941
766.80	2.10	0.027948
767.00	2.10	0.027954
767.20	2.10	0.027960
767.40	2.10	0.027966
767.60	2.10	0.027973
767.80	2.10	0.027979
768.00	2.10	0.027985
768.20	2.11	0.027992
768.40	2.11	0.027998
768.60	2.11	0.028004
768.80	2.11	0.028011
769.00	2.11	0.028017
769.20	2.11	0.028023
769.40	2.11	0.028030
769.60	2.11	0.028036
769.80	2.11	0.028043
770.00	2.11	0.028049
770.20	2.11	0.028055
770.40	2.12	0.028062
770.60	2.12	0.028068
770.80	2.12	0.028074
771.00	2.12	0.028081
771.20	2.12	0.028087
771.40	2.12	0.028094
771.60	2.12	0.028100
771.80	2.12	0.028107
772.00	2.12	0.028113
772.20	2.12	0.028120
772.40	2.12	0.028126
772.60	2.13	0.028132
772.80	2.13	0.028139
773.00	2.13	0.028145
773.20	2.13	0.028152
773.40	2.13	0.028158
773.60	2.13	0.028165
773.80	2.13	0.028171
774.00	2.13	0.028178
774.20	2.13	0.028184
774.40	2.13	0.028191
774.60	2.13	0.028197
774.80	2.14	0.028204
775.00	2.14	0.028210
775.20	2.14	0.028217
775.40	2.14	0.028224
775.60	2.14	0.028230
775.80	2.14	0.028237
776.00	2.14	0.028243
776.20	2.14	0.028250

776.40	2.14	0.028256
776.60	2.14	0.028263
776.80	2.14	0.028270
777.00	2.15	0.028276
777.20	2.15	0.028283
777.40	2.15	0.028289
777.60	2.15	0.028296
777.80	2.15	0.028303
778.00	2.15	0.028309
778.20	2.15	0.028316
778.40	2.15	0.028323
778.60	2.15	0.028329
778.80	2.15	0.028336
779.00	2.16	0.028342
779.20	2.16	0.028349
779.40	2.16	0.028356
779.60	2.16	0.028363
779.80	2.16	0.028369
780.00	2.16	0.028376
780.20	2.16	0.028383
780.40	2.16	0.028389
780.60	2.16	0.028396
780.80	2.16	0.028403
781.00	2.16	0.028410
781.20	2.17	0.028416
781.40	2.17	0.028423
781.60	2.17	0.028430
781.80	2.17	0.028437
782.00	2.17	0.028443
782.20	2.17	0.028450
782.40	2.17	0.028457
782.60	2.17	0.028464
782.80	2.17	0.028470
783.00	2.17	0.028477
783.20	2.18	0.028484
783.40	2.18	0.028491
783.60	2.18	0.028498
783.80	2.18	0.028505
784.00	2.18	0.028511
784.20	2.18	0.028518
784.40	2.18	0.028525
784.60	2.18	0.028532
784.80	2.18	0.028539
785.00	2.18	0.028546
785.20	2.19	0.028552
785.40	2.19	0.028559
785.60	2.19	0.028566
785.80	2.19	0.028573
786.00	2.19	0.028580
786.20	2.19	0.028587
786.40	2.19	0.028594
786.60	2.19	0.028601
786.80	2.19	0.028608
787.00	2.19	0.028615
787.20	2.20	0.028622
787.40	2.20	0.028629
787.60	2.20	0.028636
787.80	2.20	0.028642
788.00	2.20	0.028649
788.20	2.20	0.028656
788.40	2.20	0.028663
788.60	2.20	0.028670
788.80	2.20	0.028677
789.00	2.20	0.028684
789.20	2.21	0.028691
789.40	2.21	0.028698

789.60	2.21	0.028705
789.80	2.21	0.028713
790.00	2.21	0.028720
790.20	2.21	0.028727
790.40	2.21	0.028734
790.60	2.21	0.028741
790.80	2.21	0.028748
791.00	2.21	0.028755
791.20	2.22	0.028762
791.40	2.22	0.028769
791.60	2.22	0.028776
791.80	2.22	0.028783
792.00	2.22	0.028790
792.20	2.22	0.028798
792.40	2.22	0.028805
792.60	2.22	0.028812
792.80	2.22	0.028819
793.00	2.22	0.028826
793.20	2.23	0.028833
793.40	2.23	0.028840
793.60	2.23	0.028848
793.80	2.23	0.028855
794.00	2.23	0.028862
794.20	2.23	0.028869
794.40	2.23	0.028876
794.60	2.23	0.028884
794.80	2.23	0.028891
795.00	2.23	0.028898
795.20	2.24	0.028905
795.40	2.24	0.028912
795.60	2.24	0.028920
795.80	2.24	0.028927
796.00	2.24	0.028934
796.20	2.24	0.028941
796.40	2.24	0.028949
796.60	2.24	0.028956
796.80	2.24	0.028963
797.00	2.25	0.028971
797.20	2.25	0.028978
797.40	2.25	0.028985
797.60	2.25	0.028993
797.80	2.25	0.029000
798.00	2.25	0.029007
798.20	2.25	0.029015
798.40	2.25	0.029022
798.60	2.25	0.029029
798.80	2.25	0.029037
799.00	2.26	0.029044
799.20	2.26	0.029051
799.40	2.26	0.029059
799.60	2.26	0.029066
799.80	2.26	0.029074
800.00	2.26	0.029081
800.20	2.26	0.029088
800.40	2.26	0.029096
800.60	2.26	0.029103
800.80	2.27	0.029111
801.00	2.27	0.029118
801.20	2.27	0.029126
801.40	2.27	0.029133
801.60	2.27	0.029141
801.80	2.27	0.029148
802.00	2.27	0.029156
802.20	2.27	0.029163
802.40	2.27	0.029171
802.60	2.27	0.029178

802.80	2.28	0.029186
803.00	2.28	0.029193
803.20	2.28	0.029201
803.40	2.28	0.029208
803.60	2.28	0.029216
803.80	2.28	0.029223
804.00	2.28	0.029231
804.20	2.28	0.029239
804.40	2.28	0.029246
804.60	2.29	0.029254
804.80	2.29	0.029261
805.00	2.29	0.029269
805.20	2.29	0.029277
805.40	2.29	0.029284
805.60	2.29	0.029292
805.80	2.29	0.029299
806.00	2.29	0.029307
806.20	2.29	0.029315
806.40	2.30	0.029322
806.60	2.30	0.029330
806.80	2.30	0.029338
807.00	2.30	0.029346
807.20	2.30	0.029353
807.40	2.30	0.029361
807.60	2.30	0.029369
807.80	2.30	0.029376
808.00	2.30	0.029384
808.20	2.31	0.029392
808.40	2.31	0.029400
808.60	2.31	0.029407
808.80	2.31	0.029415
809.00	2.31	0.029423
809.20	2.31	0.029431
809.40	2.31	0.029438
809.60	2.31	0.029446
809.80	2.31	0.029454
810.00	2.32	0.029462
810.20	2.32	0.029470
810.40	2.32	0.029478
810.60	2.32	0.029485
810.80	2.32	0.029493
811.00	2.32	0.029501
811.20	2.32	0.029509
811.40	2.32	0.029517
811.60	2.32	0.029525
811.80	2.33	0.029533
812.00	2.33	0.029541
812.20	2.33	0.029548
812.40	2.33	0.029556
812.60	2.33	0.029564
812.80	2.33	0.029572
813.00	2.33	0.029580
813.20	2.33	0.029588
813.40	2.33	0.029596
813.60	2.34	0.029604
813.80	2.34	0.029612
814.00	2.34	0.029620
814.20	2.34	0.029628
814.40	2.34	0.029636
814.60	2.34	0.029644
814.80	2.34	0.029652
815.00	2.34	0.029660
815.20	2.34	0.029668
815.40	2.35	0.029676
815.60	2.35	0.029684
815.80	2.35	0.029692

816.00	2.35	0.029700
816.20	2.35	0.029709
816.40	2.35	0.029717
816.60	2.35	0.029725
816.80	2.35	0.029733
817.00	2.36	0.029741
817.20	2.36	0.029749
817.40	2.36	0.029757
817.60	2.36	0.029765
817.80	2.36	0.029774
818.00	2.36	0.029782
818.20	2.36	0.029790
818.40	2.36	0.029798
818.60	2.36	0.029806
818.80	2.37	0.029814
819.00	2.37	0.029823
819.20	2.37	0.029831
819.40	2.37	0.029839
819.60	2.37	0.029847
819.80	2.37	0.029856
820.00	2.37	0.029864
820.20	2.37	0.029872
820.40	2.38	0.029880
820.60	2.38	0.029889
820.80	2.38	0.029897
821.00	2.38	0.029905
821.20	2.38	0.029914
821.40	2.38	0.029922
821.60	2.38	0.029930
821.80	2.38	0.029939
822.00	2.38	0.029947
822.20	2.39	0.029955
822.40	2.39	0.029964
822.60	2.39	0.029972
822.80	2.39	0.029980
823.00	2.39	0.029989
823.20	2.39	0.029997
823.40	2.39	0.030006
823.60	2.39	0.030014
823.80	2.40	0.030022
824.00	2.40	0.030031
824.20	2.40	0.030039
824.40	2.40	0.030048
824.60	2.40	0.030056
824.80	2.40	0.030065
825.00	2.40	0.030073
825.20	2.40	0.030082
825.40	2.41	0.030090
825.60	2.41	0.030099
825.80	2.41	0.030107
826.00	2.41	0.030116
826.20	2.41	0.030124
826.40	2.41	0.030133
826.60	2.41	0.030142
826.80	2.41	0.030150
827.00	2.41	0.030159
827.20	2.42	0.030167
827.40	2.42	0.030176
827.60	2.42	0.030184
827.80	2.42	0.030193
828.00	2.42	0.030202
828.20	2.42	0.030210
828.40	2.42	0.030219
828.60	2.42	0.030228
828.80	2.43	0.030236
829.00	2.43	0.030245

829.20	2.43	0.030254
829.40	2.43	0.030262
829.60	2.43	0.030271
829.80	2.43	0.030280
830.00	2.43	0.030289
830.20	2.43	0.030297
830.40	2.44	0.030306
830.60	2.44	0.030315
830.80	2.44	0.030324
831.00	2.44	0.030332
831.20	2.44	0.030341
831.40	2.44	0.030350
831.60	2.44	0.030359
831.80	2.44	0.030368
832.00	2.45	0.030377
832.20	2.45	0.030385
832.40	2.45	0.030394
832.60	2.45	0.030403
832.80	2.45	0.030412
833.00	2.45	0.030421
833.20	2.45	0.030430
833.40	2.46	0.030439
833.60	2.46	0.030448
833.80	2.46	0.030456
834.00	2.46	0.030465
834.20	2.46	0.030474
834.40	2.46	0.030483
834.60	2.46	0.030492
834.80	2.46	0.030501
835.00	2.47	0.030510
835.20	2.47	0.030519
835.40	2.47	0.030528
835.60	2.47	0.030537
835.80	2.47	0.030546
836.00	2.47	0.030555
836.20	2.47	0.030564
836.40	2.47	0.030573
836.60	2.48	0.030583
836.80	2.48	0.030592
837.00	2.48	0.030600
837.20	2.48	0.030609
837.40	2.48	0.030618
837.60	2.48	0.030627
837.80	2.48	0.030635
838.00	2.48	0.030644
838.20	2.49	0.030652
838.40	2.49	0.030661
838.60	2.49	0.030669
838.80	2.49	0.030677
839.00	2.49	0.030686
839.20	2.49	0.030694
839.40	2.49	0.030702
839.60	2.49	0.030710
839.80	2.50	0.030718
840.00	2.50	0.030726
840.20	2.50	0.030734
840.40	2.50	0.030742
840.60	2.50	0.030750
840.80	2.50	0.030758
841.00	2.50	0.030765
841.20	2.50	0.030773
841.40	2.50	0.030781
841.60	2.51	0.030789
841.80	2.51	0.030796
842.00	2.51	0.030804
842.20	2.51	0.030811

842.40	2.51	0.030819
842.60	2.51	0.030827
842.80	2.51	0.030834
843.00	2.51	0.030842
843.20	2.51	0.030849
843.40	2.51	0.030857
843.60	2.52	0.030864
843.80	2.52	0.030872
844.00	2.52	0.030879
844.20	2.52	0.030886
844.40	2.52	0.030894
844.60	2.52	0.030901
844.80	2.52	0.030909
845.00	2.52	0.030916
845.20	2.52	0.030923
845.40	2.53	0.030931
845.60	2.53	0.030938
845.80	2.53	0.030945
846.00	2.53	0.030953
846.20	2.53	0.030960
846.40	2.53	0.030967
846.60	2.53	0.030974
846.80	2.53	0.030982
847.00	2.53	0.030989
847.20	2.53	0.030996
847.40	2.54	0.031003
847.60	2.54	0.031011
847.80	2.54	0.031018
848.00	2.54	0.031025
848.20	2.54	0.031032
848.40	2.54	0.031040
848.60	2.54	0.031047
848.80	2.54	0.031054
849.00	2.54	0.031061
849.20	2.55	0.031069
849.40	2.55	0.031076
849.60	2.55	0.031083
849.80	2.55	0.031090
850.00	2.55	0.031098
850.20	2.55	0.031105
850.40	2.55	0.031112
850.60	2.55	0.031119
850.80	2.55	0.031127
851.00	2.55	0.031134
851.20	2.56	0.031141
851.40	2.56	0.031148
851.60	2.56	0.031156
851.80	2.56	0.031163
852.00	2.56	0.031170
852.20	2.56	0.031177
852.40	2.56	0.031185
852.60	2.56	0.031192
852.80	2.56	0.031199
853.00	2.57	0.031207
853.20	2.57	0.031214
853.40	2.57	0.031221
853.60	2.57	0.031228
853.80	2.57	0.031236
854.00	2.57	0.031243
854.20	2.57	0.031250
854.40	2.57	0.031258
854.60	2.57	0.031265
854.80	2.57	0.031272
855.00	2.58	0.031280
855.20	2.58	0.031287
855.40	2.58	0.031294

855.60	2.58	0.031302
855.80	2.58	0.031309
856.00	2.58	0.031316
856.20	2.58	0.031324
856.40	2.58	0.031331
856.60	2.58	0.031338
856.80	2.58	0.031346
857.00	2.59	0.031353
857.20	2.59	0.031361
857.40	2.59	0.031368
857.60	2.59	0.031375
857.80	2.59	0.031383
858.00	2.59	0.031390
858.20	2.59	0.031398
858.40	2.59	0.031405
858.60	2.59	0.031412
858.80	2.60	0.031420
859.00	2.60	0.031427
859.20	2.60	0.031435
859.40	2.60	0.031442
859.60	2.60	0.031450
859.80	2.60	0.031457
860.00	2.60	0.031465
860.20	2.60	0.031472
860.40	2.60	0.031480
860.60	2.61	0.031487
860.80	2.61	0.031495
861.00	2.61	0.031502
861.20	2.61	0.031510
861.40	2.61	0.031517
861.60	2.61	0.031525
861.80	2.61	0.031532
862.00	2.61	0.031540
862.20	2.61	0.031548
862.40	2.61	0.031555
862.60	2.62	0.031563
862.80	2.62	0.031570
863.00	2.62	0.031578
863.20	2.62	0.031586
863.40	2.62	0.031593
863.60	2.62	0.031601
863.80	2.62	0.031608
864.00	2.62	0.031616
864.20	2.62	0.031624
864.40	2.63	0.031631
864.60	2.63	0.031639
864.80	2.63	0.031647
865.00	2.63	0.031654
865.20	2.63	0.031662
865.40	2.63	0.031670
865.60	2.63	0.031678
865.80	2.63	0.031685
866.00	2.63	0.031693
866.20	2.64	0.031701
866.40	2.64	0.031709
866.60	2.64	0.031716
866.80	2.64	0.031724
867.00	2.64	0.031732
867.20	2.64	0.031740
867.40	2.64	0.031747
867.60	2.64	0.031755
867.80	2.64	0.031763
868.00	2.65	0.031771
868.20	2.65	0.031779
868.40	2.65	0.031786
868.60	2.65	0.031794

868.80	2.65	0.031802
869.00	2.65	0.031810
869.20	2.65	0.031818
869.40	2.65	0.031826
869.60	2.65	0.031834
869.80	2.66	0.031842
870.00	2.66	0.031849
870.20	2.66	0.031857
870.40	2.66	0.031865
870.60	2.66	0.031873
870.80	2.66	0.031881
871.00	2.66	0.031889
871.20	2.66	0.031897
871.40	2.66	0.031905
871.60	2.67	0.031913
871.80	2.67	0.031921
872.00	2.67	0.031929
872.20	2.67	0.031937
872.40	2.67	0.031945
872.60	2.67	0.031953
872.80	2.67	0.031961
873.00	2.67	0.031969
873.20	2.68	0.031977
873.40	2.68	0.031985
873.60	2.68	0.031993
873.80	2.68	0.032001
874.00	2.68	0.032010
874.20	2.68	0.032018
874.40	2.68	0.032026
874.60	2.68	0.032034
874.80	2.68	0.032042
875.00	2.69	0.032050
875.20	2.69	0.032058
875.40	2.69	0.032066
875.60	2.69	0.032075
875.80	2.69	0.032083
876.00	2.69	0.032091
876.20	2.69	0.032099
876.40	2.69	0.032107
876.60	2.70	0.032116
876.80	2.70	0.032124
877.00	2.70	0.032132
877.20	2.70	0.032140
877.40	2.70	0.032149
877.60	2.70	0.032157
877.80	2.70	0.032165
878.00	2.70	0.032173
878.20	2.70	0.032182
878.40	2.71	0.032190
878.60	2.71	0.032198
878.80	2.71	0.032207
879.00	2.71	0.032215
879.20	2.71	0.032223
879.40	2.71	0.032232
879.60	2.71	0.032240
879.80	2.71	0.032248
880.00	2.72	0.032257
880.20	2.72	0.032265
880.40	2.72	0.032274
880.60	2.72	0.032282
880.80	2.72	0.032290
881.00	2.72	0.032299
881.20	2.72	0.032307
881.40	2.72	0.032316
881.60	2.72	0.032324
881.80	2.73	0.032333

882.00	2.73	0.032341
882.20	2.73	0.032350
882.40	2.73	0.032358
882.60	2.73	0.032367
882.80	2.73	0.032375
883.00	2.73	0.032384
883.20	2.73	0.032392
883.40	2.74	0.032401
883.60	2.74	0.032409
883.80	2.74	0.032418
884.00	2.74	0.032427
884.20	2.74	0.032435
884.40	2.74	0.032444
884.60	2.74	0.032452
884.80	2.74	0.032461
885.00	2.75	0.032470
885.20	2.75	0.032478
885.40	2.75	0.032487
885.60	2.75	0.032496
885.80	2.75	0.032504
886.00	2.75	0.032513
886.20	2.75	0.032522
886.40	2.75	0.032531
886.60	2.76	0.032539
886.80	2.76	0.032548
887.00	2.76	0.032557
887.20	2.76	0.032566
887.40	2.76	0.032574
887.60	2.76	0.032583
887.80	2.76	0.032592
888.00	2.76	0.032601
888.20	2.77	0.032610
888.40	2.77	0.032618
888.60	2.77	0.032627
888.80	2.77	0.032636
889.00	2.77	0.032645
889.20	2.77	0.032654
889.40	2.77	0.032663
889.60	2.77	0.032672
889.80	2.78	0.032680
890.00	2.78	0.032689
890.20	2.78	0.032698
890.40	2.78	0.032707
890.60	2.78	0.032716
890.80	2.78	0.032725
891.00	2.78	0.032734
891.20	2.78	0.032743
891.40	2.79	0.032752
891.60	2.79	0.032761
891.80	2.79	0.032770
892.00	2.79	0.032779
892.20	2.79	0.032788
892.40	2.79	0.032797
892.60	2.79	0.032806
892.80	2.80	0.032815
893.00	2.80	0.032824
893.20	2.80	0.032834
893.40	2.80	0.032843
893.60	2.80	0.032852
893.80	2.80	0.032861
894.00	2.80	0.032870
894.20	2.80	0.032879
894.40	2.81	0.032888
894.60	2.81	0.032898
894.80	2.81	0.032907
895.00	2.81	0.032916

895.20	2.81	0.032925
895.40	2.81	0.032934
895.60	2.81	0.032944
895.80	2.81	0.032953
896.00	2.82	0.032962
896.20	2.82	0.032971
896.40	2.82	0.032981
896.60	2.82	0.032990
896.80	2.82	0.032999
897.00	2.82	0.033009
897.20	2.82	0.033018
897.40	2.83	0.033027
897.60	2.83	0.033037
897.80	2.83	0.033046
898.00	2.83	0.033055
898.20	2.83	0.033065
898.40	2.83	0.033074
898.60	2.83	0.033084
898.80	2.83	0.033093
899.00	2.84	0.033103
899.20	2.84	0.033112
899.40	2.84	0.033122
899.60	2.84	0.033131
899.80	2.84	0.033141
900.00	2.84	0.033150
900.20	2.84	0.033160
900.40	2.85	0.033169
900.60	2.85	0.033179
900.80	2.85	0.033188
901.00	2.85	0.033198
901.20	2.85	0.033207
901.40	2.85	0.033217
901.60	2.85	0.033227
901.80	2.86	0.033236
902.00	2.86	0.033246
902.20	2.86	0.033255
902.40	2.86	0.033265
902.60	2.86	0.033275
902.80	2.86	0.033284
903.00	2.86	0.033294
903.20	2.86	0.033304
903.40	2.87	0.033314
903.60	2.87	0.033323
903.80	2.87	0.033333
904.00	2.87	0.033343
904.20	2.87	0.033353
904.40	2.87	0.033362
904.60	2.87	0.033372
904.80	2.88	0.033382
905.00	2.88	0.033392
905.20	2.88	0.033402
905.40	2.88	0.033411
905.60	2.88	0.033421
905.80	2.88	0.033431
906.00	2.88	0.033441
906.20	2.89	0.033451
906.40	2.89	0.033461
906.60	2.89	0.033471
906.80	2.89	0.033481
907.00	2.89	0.033491
907.20	2.89	0.033501
907.40	2.89	0.033511
907.60	2.90	0.033521
907.80	2.90	0.033531
908.00	2.90	0.033541
908.20	2.90	0.033551

908.40	2.90	0.033561
908.60	2.90	0.033571
908.80	2.90	0.033581
909.00	2.91	0.033591
909.20	2.91	0.033601
909.40	2.91	0.033611
909.60	2.91	0.033621
909.80	2.91	0.033631
910.00	2.91	0.033642
910.20	2.91	0.033652
910.40	2.92	0.033662
910.60	2.92	0.033672
910.80	2.92	0.033682
911.00	2.92	0.033693
911.20	2.92	0.033703
911.40	2.92	0.033713
911.60	2.92	0.033723
911.80	2.93	0.033734
912.00	2.93	0.033744
912.20	2.93	0.033754
912.40	2.93	0.033765
912.60	2.93	0.033775
912.80	2.93	0.033785
913.00	2.94	0.033796
913.20	2.94	0.033806
913.40	2.94	0.033816
913.60	2.94	0.033827
913.80	2.94	0.033837
914.00	2.94	0.033848
914.20	2.94	0.033858
914.40	2.95	0.033869
914.60	2.95	0.033879
914.80	2.95	0.033890
915.00	2.95	0.033900
915.20	2.95	0.033911
915.40	2.95	0.033921
915.60	2.95	0.033932
915.80	2.96	0.033942
916.00	2.96	0.033953
916.20	2.96	0.033963
916.40	2.96	0.033974
916.60	2.96	0.033985
916.80	2.96	0.033995
917.00	2.97	0.034006
917.20	2.97	0.034017
917.40	2.97	0.034027
917.60	2.97	0.034038
917.80	2.97	0.034049
918.00	2.97	0.034060
918.20	2.97	0.034070
918.40	2.98	0.034081
918.60	2.98	0.034092
918.80	2.98	0.034103
919.00	2.98	0.034113
919.20	2.98	0.034124
919.40	2.98	0.034135
919.60	2.99	0.034146
919.80	2.99	0.034157
920.00	2.99	0.034168
920.20	2.99	0.034179
920.40	2.99	0.034190
920.60	2.99	0.034201
920.80	2.99	0.034211
921.00	3.00	0.034222
921.20	3.00	0.034233
921.40	3.00	0.034244

921.60	3.00	0.034255
921.80	3.00	0.034266
922.00	3.00	0.034277
922.20	3.01	0.034289
922.40	3.01	0.034300
922.60	3.01	0.034311
922.80	3.01	0.034322
923.00	3.01	0.034333
923.20	3.01	0.034344
923.40	3.02	0.034355
923.60	3.02	0.034366
923.80	3.02	0.034378
924.00	3.02	0.034389
924.20	3.02	0.034400
924.40	3.02	0.034411
924.60	3.02	0.034422
924.80	3.03	0.034434
925.00	3.03	0.034445
925.20	3.03	0.034456
925.40	3.03	0.034468
925.60	3.03	0.034479
925.80	3.03	0.034490
926.00	3.04	0.034502
926.20	3.04	0.034513
926.40	3.04	0.034524
926.60	3.04	0.034536
926.80	3.04	0.034547
927.00	3.04	0.034559
927.20	3.05	0.034570
927.40	3.05	0.034582
927.60	3.05	0.034593
927.80	3.05	0.034605
928.00	3.05	0.034616
928.20	3.05	0.034628
928.40	3.06	0.034639
928.60	3.06	0.034651
928.80	3.06	0.034663
929.00	3.06	0.034674
929.20	3.06	0.034686
929.40	3.06	0.034697
929.60	3.07	0.034709
929.80	3.07	0.034721
930.00	3.07	0.034733
930.20	3.07	0.034744
930.40	3.07	0.034756
930.60	3.07	0.034768
930.80	3.08	0.034780
931.00	3.08	0.034791
931.20	3.08	0.034803
931.40	3.08	0.034815
931.60	3.08	0.034827
931.80	3.08	0.034839
932.00	3.09	0.034851
932.20	3.09	0.034862
932.40	3.09	0.034874
932.60	3.09	0.034886
932.80	3.09	0.034898
933.00	3.09	0.034910
933.20	3.10	0.034922
933.40	3.10	0.034934
933.60	3.10	0.034946
933.80	3.10	0.034958
934.00	3.10	0.034970
934.20	3.10	0.034982
934.40	3.11	0.034994
934.60	3.11	0.035007

934.80	3.11	0.035019
935.00	3.11	0.035031
935.20	3.11	0.035043
935.40	3.12	0.035055
935.60	3.12	0.035067
935.80	3.12	0.035080
936.00	3.12	0.035092
936.20	3.12	0.035104
936.40	3.12	0.035116
936.60	3.13	0.035129
936.80	3.13	0.035141
937.00	3.13	0.035153
937.20	3.13	0.035166
937.40	3.13	0.035178
937.60	3.13	0.035190
937.80	3.14	0.035203
938.00	3.14	0.035215
938.20	3.14	0.035228
938.40	3.14	0.035240
938.60	3.14	0.035253
938.80	3.15	0.035265
939.00	3.15	0.035278
939.20	3.15	0.035290
939.40	3.15	0.035303
939.60	3.15	0.035315
939.80	3.15	0.035328
940.00	3.16	0.035341
940.20	3.16	0.035353
940.40	3.16	0.035366
940.60	3.16	0.035379
940.80	3.16	0.035391
941.00	3.17	0.035404
941.20	3.17	0.035417
941.40	3.17	0.035429
941.60	3.17	0.035442
941.80	3.17	0.035455
942.00	3.17	0.035468
942.20	3.18	0.035481
942.40	3.18	0.035494
942.60	3.18	0.035506
942.80	3.18	0.035519
943.00	3.18	0.035532
943.20	3.19	0.035545
943.40	3.19	0.035558
943.60	3.19	0.035571
943.80	3.19	0.035584
944.00	3.19	0.035597
944.20	3.19	0.035610
944.40	3.20	0.035623
944.60	3.20	0.035636
944.80	3.20	0.035649
945.00	3.20	0.035662
945.20	3.21	0.035675
945.40	3.21	0.035688
945.60	3.21	0.035701
945.80	3.21	0.035713
946.00	3.21	0.035725
946.20	3.22	0.035738
946.40	3.22	0.035750
946.60	3.22	0.035762
946.80	3.22	0.035774
947.00	3.23	0.035786
947.20	3.23	0.035798
947.40	3.23	0.035810
947.60	3.23	0.035822
947.80	3.23	0.035834

948.00	3.24	0.035846
948.20	3.24	0.035857
948.40	3.24	0.035869
948.60	3.24	0.035881
948.80	3.25	0.035892
949.00	3.25	0.035904
949.20	3.25	0.035915
949.40	3.25	0.035927
949.60	3.25	0.035938
949.80	3.26	0.035950
950.00	3.26	0.035961
950.20	3.26	0.035972
950.40	3.26	0.035984
950.60	3.26	0.035995
950.80	3.27	0.036006
951.00	3.27	0.036018
951.20	3.27	0.036029
951.40	3.27	0.036040
951.60	3.28	0.036052
951.80	3.28	0.036063
952.00	3.28	0.036074
952.20	3.28	0.036086
952.40	3.28	0.036097
952.60	3.29	0.036108
952.80	3.29	0.036119
953.00	3.29	0.036131
953.20	3.29	0.036142
953.40	3.29	0.036153
953.60	3.30	0.036164
953.80	3.30	0.036176
954.00	3.30	0.036187
954.20	3.30	0.036198
954.40	3.30	0.036209
954.60	3.31	0.036221
954.80	3.31	0.036232
955.00	3.31	0.036243
955.20	3.31	0.036255
955.40	3.31	0.036266
955.60	3.32	0.036277
955.80	3.32	0.036289
956.00	3.32	0.036300
956.20	3.32	0.036311
956.40	3.33	0.036323
956.60	3.33	0.036334
956.80	3.33	0.036346
957.00	3.33	0.036357
957.20	3.33	0.036368
957.40	3.34	0.036380
957.60	3.34	0.036391
957.80	3.34	0.036403
958.00	3.34	0.036414
958.20	3.34	0.036426
958.40	3.35	0.036437
958.60	3.35	0.036449
958.80	3.35	0.036460
959.00	3.35	0.036472
959.20	3.36	0.036484
959.40	3.36	0.036495
959.60	3.36	0.036507
959.80	3.36	0.036518
960.00	3.36	0.036530
960.20	3.37	0.036542
960.40	3.37	0.036553
960.60	3.37	0.036565
960.80	3.37	0.036577
961.00	3.37	0.036588

961.20	3.38	0.036600
961.40	3.38	0.036612
961.60	3.38	0.036624
961.80	3.38	0.036636
962.00	3.39	0.036647
962.20	3.39	0.036659
962.40	3.39	0.036671
962.60	3.39	0.036683
962.80	3.39	0.036695
963.00	3.40	0.036707
963.20	3.40	0.036719
963.40	3.40	0.036731
963.60	3.40	0.036743
963.80	3.41	0.036755
964.00	3.41	0.036767
964.20	3.41	0.036779
964.40	3.41	0.036791
964.60	3.41	0.036803
964.80	3.42	0.036815
965.00	3.42	0.036827
965.20	3.42	0.036839
965.40	3.42	0.036851
965.60	3.43	0.036863
965.80	3.43	0.036876
966.00	3.43	0.036888
966.20	3.43	0.036900
966.40	3.43	0.036912
966.60	3.44	0.036924
966.80	3.44	0.036937
967.00	3.44	0.036949
967.20	3.44	0.036961
967.40	3.45	0.036974
967.60	3.45	0.036986
967.80	3.45	0.036999
968.00	3.45	0.037011
968.20	3.45	0.037023
968.40	3.46	0.037036
968.60	3.46	0.037048
968.80	3.46	0.037061
969.00	3.46	0.037073
969.20	3.47	0.037086
969.40	3.47	0.037099
969.60	3.47	0.037111
969.80	3.47	0.037124
970.00	3.48	0.037136
970.20	3.48	0.037149
970.40	3.48	0.037162
970.60	3.48	0.037175
970.80	3.49	0.037187
971.00	3.49	0.037200
971.20	3.49	0.037213
971.40	3.49	0.037226
971.60	3.49	0.037238
971.80	3.50	0.037251
972.00	3.50	0.037264
972.20	3.50	0.037277
972.40	3.50	0.037290
972.60	3.51	0.037303
972.80	3.51	0.037316
973.00	3.51	0.037329
973.20	3.51	0.037342
973.40	3.52	0.037355
973.60	3.52	0.037368
973.80	3.52	0.037381
974.00	3.52	0.037394
974.20	3.53	0.037407

974.40	3.53	0.037421
974.60	3.53	0.037434
974.80	3.53	0.037447
975.00	3.54	0.037460
975.20	3.54	0.037474
975.40	3.54	0.037487
975.60	3.54	0.037500
975.80	3.55	0.037513
976.00	3.55	0.037527
976.20	3.55	0.037540
976.40	3.55	0.037554
976.60	3.56	0.037567
976.80	3.56	0.037580
977.00	3.56	0.037594
977.20	3.56	0.037607
977.40	3.57	0.037621
977.60	3.57	0.037635
977.80	3.57	0.037648
978.00	3.57	0.037662
978.20	3.58	0.037675
978.40	3.58	0.037689
978.60	3.58	0.037703
978.80	3.58	0.037717
979.00	3.59	0.037730
979.20	3.59	0.037744
979.40	3.59	0.037758
979.60	3.59	0.037772
979.80	3.60	0.037785
980.00	3.60	0.037799
980.20	3.60	0.037813
980.40	3.60	0.037827
980.60	3.61	0.037841
980.80	3.61	0.037855
981.00	3.61	0.037869
981.20	3.61	0.037883
981.40	3.62	0.037897
981.60	3.62	0.037911
981.80	3.62	0.037925
982.00	3.62	0.037940
982.20	3.63	0.037954
982.40	3.63	0.037968
982.60	3.63	0.037982
982.80	3.63	0.037996
983.00	3.64	0.038011
983.20	3.64	0.038025
983.40	3.64	0.038039
983.60	3.65	0.038054
983.80	3.65	0.038068
984.00	3.65	0.038083
984.20	3.65	0.038097
984.40	3.66	0.038111
984.60	3.66	0.038126
984.80	3.66	0.038140
985.00	3.66	0.038155
985.20	3.67	0.038170
985.40	3.67	0.038184
985.60	3.67	0.038199
985.80	3.68	0.038214
986.00	3.68	0.038228
986.20	3.68	0.038243
986.40	3.68	0.038258
986.60	3.69	0.038273
986.80	3.69	0.038287
987.00	3.69	0.038302
987.20	3.69	0.038317
987.40	3.70	0.038332

987.60	3.70	0.038347
987.80	3.70	0.038362
988.00	3.71	0.038377
988.20	3.71	0.038392
988.40	3.71	0.038407
988.60	3.71	0.038422
988.80	3.72	0.038437
989.00	3.72	0.038452
989.20	3.72	0.038468
989.40	3.72	0.038483
989.60	3.73	0.038498
989.80	3.73	0.038513
990.00	3.73	0.038529
990.20	3.74	0.038544
990.40	3.74	0.038559
990.60	3.74	0.038575
990.80	3.74	0.038590
991.00	3.75	0.038606
991.20	3.75	0.038621
991.40	3.75	0.038637
991.60	3.76	0.038652
991.80	3.76	0.038668
992.00	3.76	0.038683
992.20	3.76	0.038699
992.40	3.77	0.038715
992.60	3.77	0.038731
992.80	3.77	0.038746
993.00	3.78	0.038762
993.20	3.78	0.038778
993.40	3.78	0.038794
993.60	3.79	0.038810
993.80	3.79	0.038826
994.00	3.79	0.038841
994.20	3.79	0.038857
994.40	3.80	0.038873
994.60	3.80	0.038890
994.80	3.80	0.038906
995.00	3.81	0.038922
995.20	3.81	0.038938
995.40	3.81	0.038954
995.60	3.82	0.038970
995.80	3.82	0.038987
996.00	3.82	0.039003
996.20	3.82	0.039019
996.40	3.83	0.039036
996.60	3.83	0.039052
996.80	3.83	0.039068
997.00	3.84	0.039085
997.20	3.84	0.039101
997.40	3.84	0.039118
997.60	3.85	0.039134
997.80	3.85	0.039151
998.00	3.85	0.039168
998.20	3.85	0.039184
998.40	3.86	0.039201
998.60	3.86	0.039218
998.80	3.86	0.039234
999.00	3.87	0.039251
999.20	3.87	0.039268
999.40	3.87	0.039285
999.60	3.88	0.039302
999.80	3.88	0.039319
1000.00	3.88	0.039336
1000.20	3.89	0.039353
1000.40	3.89	0.039370
1000.60	3.89	0.039387

1000.80	3.90	0.039404
1001.00	3.90	0.039421
1001.20	3.90	0.039439
1001.40	3.90	0.039456
1001.60	3.91	0.039473
1001.80	3.91	0.039490
1002.00	3.91	0.039508
1002.20	3.92	0.039525
1002.40	3.92	0.039543
1002.60	3.92	0.039560
1002.80	3.93	0.039578
1003.00	3.93	0.039595
1003.20	3.93	0.039613
1003.40	3.94	0.039631
1003.60	3.94	0.039648
1003.80	3.94	0.039666
1004.00	3.95	0.039684
1004.20	3.95	0.039701
1004.40	3.95	0.039719
1004.60	3.96	0.039737
1004.80	3.96	0.039755
1005.00	3.96	0.039773
1005.20	3.97	0.039791
1005.40	3.97	0.039809
1005.60	3.97	0.039827
1005.80	3.98	0.039845
1006.00	3.98	0.039863
1006.20	3.98	0.039882
1006.40	3.99	0.039900
1006.60	3.99	0.039918
1006.80	3.99	0.039936
1007.00	4.00	0.039955
1007.20	4.00	0.039973
1007.40	4.00	0.039992
1007.60	4.01	0.040010
1007.80	4.01	0.040029
1008.00	4.01	0.040047
1008.20	4.02	0.040066
1008.40	4.02	0.040085
1008.60	4.02	0.040103
1008.80	4.03	0.040122
1009.00	4.03	0.040141
1009.20	4.04	0.040160
1009.40	4.04	0.040178
1009.60	4.04	0.040197
1009.80	4.05	0.040216
1010.00	4.05	0.040235
1010.20	4.05	0.040254
1010.40	4.06	0.040273
1010.60	4.06	0.040293
1010.80	4.06	0.040312
1011.00	4.07	0.040331
1011.20	4.07	0.040350
1011.40	4.07	0.040370
1011.60	4.08	0.040389
1011.80	4.08	0.040408
1012.00	4.08	0.040428
1012.20	4.09	0.040447
1012.40	4.09	0.040467
1012.60	4.10	0.040486
1012.80	4.10	0.040506
1013.00	4.10	0.040526
1013.20	4.11	0.040545
1013.40	4.11	0.040565
1013.60	4.11	0.040585
1013.80	4.12	0.040605

1014.00	4.12	0.040625
1014.20	4.12	0.040645
1014.40	4.13	0.040665
1014.60	4.13	0.040685
1014.80	4.14	0.040705
1015.00	4.14	0.040725
1015.20	4.14	0.040745
1015.40	4.15	0.040765
1015.60	4.15	0.040786
1015.80	4.15	0.040806
1016.00	4.16	0.040826
1016.20	4.16	0.040847
1016.40	4.17	0.040867
1016.60	4.17	0.040888
1016.80	4.17	0.040908
1017.00	4.18	0.040929
1017.20	4.18	0.040950
1017.40	4.19	0.040970
1017.60	4.19	0.040991
1017.80	4.19	0.041012
1018.00	4.20	0.041033
1018.20	4.20	0.041054
1018.40	4.20	0.041075
1018.60	4.21	0.041096
1018.80	4.21	0.041117
1019.00	4.22	0.041138
1019.20	4.22	0.041159
1019.40	4.22	0.041181
1019.60	4.23	0.041202
1019.80	4.23	0.041223
1020.00	4.24	0.041245
1020.20	4.24	0.041266
1020.40	4.24	0.041288
1020.60	4.25	0.041309
1020.80	4.25	0.041331
1021.00	4.26	0.041353
1021.20	4.26	0.041374
1021.40	4.26	0.041396
1021.60	4.27	0.041418
1021.80	4.27	0.041440
1022.00	4.28	0.041462
1022.20	4.28	0.041484
1022.40	4.28	0.041506
1022.60	4.29	0.041528
1022.80	4.29	0.041550
1023.00	4.30	0.041572
1023.20	4.30	0.041595
1023.40	4.30	0.041617
1023.60	4.31	0.041639
1023.80	4.31	0.041662
1024.00	4.32	0.041684
1024.20	4.32	0.041707
1024.40	4.33	0.041729
1024.60	4.33	0.041752
1024.80	4.33	0.041775
1025.00	4.34	0.041798
1025.20	4.34	0.041821
1025.40	4.35	0.041844
1025.60	4.35	0.041867
1025.80	4.36	0.041890
1026.00	4.36	0.041913
1026.20	4.36	0.041936
1026.40	4.37	0.041959
1026.60	4.37	0.041982
1026.80	4.38	0.042006
1027.00	4.38	0.042029

1027.20	4.39	0.042052
1027.40	4.39	0.042076
1027.60	4.39	0.042100
1027.80	4.40	0.042123
1028.00	4.40	0.042147
1028.20	4.41	0.042171
1028.40	4.41	0.042195
1028.60	4.42	0.042218
1028.80	4.42	0.042242
1029.00	4.42	0.042266
1029.20	4.43	0.042290
1029.40	4.43	0.042315
1029.60	4.44	0.042339
1029.80	4.44	0.042363
1030.00	4.45	0.042387
1030.20	4.45	0.042412
1030.40	4.46	0.042436
1030.60	4.46	0.042461
1030.80	4.47	0.042486
1031.00	4.47	0.042510
1031.20	4.47	0.042535
1031.40	4.48	0.042560
1031.60	4.48	0.042585
1031.80	4.49	0.042610
1032.00	4.49	0.042635
1032.20	4.50	0.042660
1032.40	4.50	0.042685
1032.60	4.51	0.042710
1032.80	4.51	0.042735
1033.00	4.52	0.042761
1033.20	4.52	0.042786
1033.40	4.53	0.042812
1033.60	4.53	0.042837
1033.80	4.54	0.042863
1034.00	4.54	0.042888
1034.20	4.54	0.042914
1034.40	4.55	0.042940
1034.60	4.55	0.042966
1034.80	4.56	0.042992
1035.00	4.56	0.043018
1035.20	4.57	0.043044
1035.40	4.57	0.043070
1035.60	4.58	0.043097
1035.80	4.58	0.043123
1036.00	4.59	0.043149
1036.20	4.59	0.043176
1036.40	4.60	0.043202
1036.60	4.60	0.043229
1036.80	4.61	0.043256
1037.00	4.61	0.043283
1037.20	4.62	0.043310
1037.40	4.62	0.043337
1037.60	4.63	0.043364
1037.80	4.63	0.043391
1038.00	4.64	0.043418
1038.20	4.64	0.043445
1038.40	4.65	0.043472
1038.60	4.65	0.043500
1038.80	4.66	0.043527
1039.00	4.66	0.043555
1039.20	4.67	0.043583
1039.40	4.67	0.043610
1039.60	4.68	0.043638
1039.80	4.68	0.043666
1040.00	4.69	0.043694
1040.20	4.69	0.043722

1040.40	4.70	0.043750
1040.60	4.70	0.043778
1040.80	4.71	0.043807
1041.00	4.71	0.043835
1041.20	4.72	0.043864
1041.40	4.73	0.043892
1041.60	4.73	0.043921
1041.80	4.74	0.043950
1042.00	4.74	0.043978
1042.20	4.75	0.044007
1042.40	4.75	0.044036
1042.60	4.76	0.044065
1042.80	4.76	0.044094
1043.00	4.77	0.044124
1043.20	4.77	0.044153
1043.40	4.78	0.044182
1043.60	4.78	0.044212
1043.80	4.79	0.044242
1044.00	4.80	0.044271
1044.20	4.80	0.044301
1044.40	4.81	0.044331
1044.60	4.81	0.044361
1044.80	4.82	0.044391
1045.00	4.82	0.044421
1045.20	4.83	0.044451
1045.40	4.83	0.044482
1045.60	4.84	0.044512
1045.80	4.85	0.044542
1046.00	4.85	0.044573
1046.20	4.86	0.044604
1046.40	4.86	0.044634
1046.60	4.87	0.044665
1046.80	4.87	0.044696
1047.00	4.88	0.044727
1047.20	4.89	0.044759
1047.40	4.89	0.044790
1047.60	4.90	0.044821
1047.80	4.90	0.044853
1048.00	4.91	0.044884
1048.20	4.91	0.044916
1048.40	4.92	0.044948
1048.60	4.93	0.044979
1048.80	4.93	0.045011
1049.00	4.94	0.045043
1049.20	4.94	0.045076
1049.40	4.95	0.045108
1049.60	4.96	0.045140
1049.80	4.96	0.045173
1050.00	4.97	0.045205
1050.20	4.97	0.045238
1050.40	4.98	0.045271
1050.60	4.99	0.045304
1050.80	4.99	0.045337
1051.00	5.00	0.045370
1051.20	5.00	0.045403
1051.40	5.01	0.045436
1051.60	5.02	0.045470
1051.80	5.02	0.045503
1052.00	5.03	0.045537
1052.20	5.04	0.045570
1052.40	5.04	0.045604
1052.60	5.05	0.045638
1052.80	5.05	0.045672
1053.00	5.06	0.045706
1053.20	5.07	0.045741
1053.40	5.07	0.045775

1053.60	5.08	0.045810
1053.80	5.09	0.045844
1054.00	5.09	0.045879
1054.20	5.10	0.045914
1054.40	5.11	0.045949
1054.60	5.11	0.045984
1054.80	5.12	0.046019
1055.00	5.13	0.046054
1055.20	5.13	0.046090
1055.40	5.14	0.046125
1055.60	5.14	0.046161
1055.80	5.15	0.046197
1056.00	5.16	0.046233
1056.20	5.16	0.046269
1056.40	5.17	0.046305
1056.60	5.18	0.046341
1056.80	5.19	0.046378
1057.00	5.19	0.046414
1057.20	5.20	0.046451
1057.40	5.21	0.046488
1057.60	5.21	0.046525
1057.80	5.22	0.046562
1058.00	5.23	0.046599
1058.20	5.23	0.046636
1058.40	5.24	0.046673
1058.60	5.25	0.046710
1058.80	5.25	0.046747
1059.00	5.26	0.046783
1059.20	5.27	0.046820
1059.40	5.27	0.046856
1059.60	5.28	0.046892
1059.80	5.29	0.046928
1060.00	5.29	0.046964
1060.20	5.30	0.047000
1060.40	5.31	0.047036
1060.60	5.31	0.047072
1060.80	5.32	0.047107
1061.00	5.33	0.047143
1061.20	5.33	0.047179
1061.40	5.34	0.047214
1061.60	5.35	0.047250
1061.80	5.35	0.047285
1062.00	5.36	0.047320
1062.20	5.37	0.047356
1062.40	5.37	0.047391
1062.60	5.38	0.047427
1062.80	5.39	0.047462
1063.00	5.39	0.047497
1063.20	5.40	0.047533
1063.40	5.41	0.047567
1063.60	5.42	0.047600
1063.80	5.43	0.047631
1064.00	5.44	0.047662
1064.20	5.46	0.047691
1064.40	5.47	0.047719
1064.60	5.48	0.047747
1064.80	5.48	0.047773
1065.00	5.49	0.047799
1065.20	5.50	0.047825
1065.40	5.51	0.047850
1065.60	5.52	0.047874
1065.80	5.53	0.047898
1066.00	5.54	0.047922
1066.20	5.55	0.047945
1066.40	5.55	0.047968
1066.60	5.56	0.047990

1066.80	5.57	0.048013
1067.00	5.58	0.048035
1067.20	5.59	0.048057
1067.40	5.59	0.048079
1067.60	5.60	0.048100
1067.80	5.61	0.048122
1068.00	5.62	0.048143
1068.20	5.62	0.048165
1068.40	5.63	0.048186
1068.60	5.64	0.048207
1068.80	5.65	0.048228
1069.00	5.65	0.048250
1069.20	5.66	0.048271
1069.40	5.67	0.048292
1069.60	5.68	0.048313
1069.80	5.68	0.048334
1070.00	5.69	0.048355
1070.20	5.70	0.048376
1070.40	5.71	0.048398
1070.60	5.71	0.048419
1070.80	5.72	0.048440
1071.00	5.73	0.048461
1071.20	5.74	0.048483
1071.40	5.74	0.048504
1071.60	5.75	0.048525
1071.80	5.76	0.048547
1072.00	5.77	0.048568
1072.20	5.77	0.048590
1072.40	5.78	0.048611
1072.60	5.79	0.048633
1072.80	5.80	0.048655
1073.00	5.80	0.048677
1073.20	5.81	0.048699
1073.40	5.82	0.048721
1073.60	5.83	0.048743
1073.80	5.84	0.048765
1074.00	5.84	0.048787
1074.20	5.85	0.048809
1074.40	5.86	0.048831
1074.60	5.87	0.048854
1074.80	5.88	0.048876
1075.00	5.88	0.048899
1075.20	5.89	0.048922
1075.40	5.90	0.048944
1075.60	5.91	0.048967
1075.80	5.92	0.048990
1076.00	5.92	0.049013
1076.20	5.93	0.049036
1076.40	5.94	0.049059
1076.60	5.95	0.049083
1076.80	5.96	0.049106
1077.00	5.96	0.049129
1077.20	5.97	0.049153
1077.40	5.98	0.049177
1077.60	5.99	0.049200
1077.80	6.00	0.049224
1078.00	6.01	0.049248
1078.20	6.02	0.049272
1078.40	6.02	0.049296
1078.60	6.03	0.049320
1078.80	6.04	0.049345
1079.00	6.05	0.049369
1079.20	6.06	0.049394
1079.40	6.07	0.049418
1079.60	6.08	0.049443
1079.80	6.08	0.049468

1080.00	6.09	0.049493
1080.20	6.10	0.049518
1080.40	6.11	0.049543
1080.60	6.12	0.049568
1080.80	6.13	0.049593
1081.00	6.14	0.049619
1081.20	6.15	0.049644
1081.40	6.16	0.049670
1081.60	6.16	0.049696
1081.80	6.17	0.049722
1082.00	6.18	0.049748
1082.20	6.19	0.049774
1082.40	6.20	0.049800
1082.60	6.21	0.049826
1082.80	6.22	0.049853
1083.00	6.23	0.049879
1083.20	6.24	0.049906
1083.40	6.25	0.049933
1083.60	6.26	0.049960
1083.80	6.27	0.049987
1084.00	6.28	0.050014
1084.20	6.29	0.050041
1084.40	6.30	0.050068
1084.60	6.31	0.050096
1084.80	6.32	0.050123
1085.00	6.33	0.050151
1085.20	6.33	0.050179
1085.40	6.34	0.050207
1085.60	6.35	0.050235
1085.80	6.36	0.050263
1086.00	6.37	0.050292
1086.20	6.38	0.050320
1086.40	6.39	0.050349
1086.60	6.40	0.050377
1086.80	6.42	0.050406
1087.00	6.43	0.050435
1087.20	6.44	0.050465
1087.40	6.45	0.050494
1087.60	6.46	0.050523
1087.80	6.47	0.050553
1088.00	6.48	0.050582
1088.20	6.49	0.050612
1088.40	6.50	0.050642
1088.60	6.51	0.050672
1088.80	6.52	0.050703
1089.00	6.53	0.050733
1089.20	6.54	0.050764
1089.40	6.55	0.050794
1089.60	6.56	0.050825
1089.80	6.57	0.050856
1090.00	6.58	0.050887
1090.20	6.60	0.050918
1090.40	6.61	0.050950
1090.60	6.62	0.050981
1090.80	6.63	0.051013
1091.00	6.64	0.051045
1091.20	6.65	0.051077
1091.40	6.66	0.051109
1091.60	6.67	0.051142
1091.80	6.69	0.051174
1092.00	6.70	0.051207
1092.20	6.71	0.051240
1092.40	6.72	0.051273
1092.60	6.73	0.051306
1092.80	6.74	0.051339
1093.00	6.76	0.051373

1093.20	6.77	0.051406
1093.40	6.78	0.051440
1093.60	6.79	0.051474
1093.80	6.80	0.051508
1094.00	6.82	0.051543
1094.20	6.83	0.051577
1094.40	6.84	0.051612
1094.60	6.85	0.051647
1094.80	6.86	0.051682
1095.00	6.88	0.051717
1095.20	6.89	0.051752
1095.40	6.90	0.051788
1095.60	6.92	0.051824
1095.80	6.93	0.051860
1096.00	6.94	0.051896
1096.20	6.95	0.051932
1096.40	6.97	0.051969
1096.60	6.98	0.052006
1096.80	6.99	0.052043
1097.00	7.01	0.052080
1097.20	7.02	0.052117
1097.40	7.03	0.052155
1097.60	7.04	0.052192
1097.80	7.06	0.052230
1098.00	7.07	0.052268
1098.20	7.09	0.052307
1098.40	7.10	0.052345
1098.60	7.11	0.052384
1098.80	7.13	0.052423
1099.00	7.14	0.052462
1099.20	7.15	0.052502
1099.40	7.17	0.052542
1099.60	7.18	0.052581
1099.80	7.20	0.052621
1100.00	7.21	0.052662
1100.20	7.22	0.052702
1100.40	7.24	0.052743
1100.60	7.25	0.052784
1100.80	7.27	0.052825
1101.00	7.28	0.052867
1101.20	7.30	0.052909
1101.40	7.31	0.052951
1101.60	7.33	0.052993
1101.80	7.34	0.053035
1102.00	7.36	0.053078
1102.20	7.37	0.053121
1102.40	7.39	0.053164
1102.60	7.40	0.053208
1102.80	7.42	0.053251
1103.00	7.43	0.053295
1103.20	7.45	0.053340
1103.40	7.47	0.053384
1103.60	7.48	0.053429
1103.80	7.50	0.053474
1104.00	7.51	0.053519
1104.20	7.53	0.053565
1104.40	7.55	0.053611
1104.60	7.56	0.053657
1104.80	7.58	0.053703
1105.00	7.59	0.053750
1105.20	7.61	0.053797
1105.40	7.63	0.053845
1105.60	7.64	0.053892
1105.80	7.66	0.053940
1106.00	7.68	0.053988
1106.20	7.70	0.054037

1106.40	7.71	0.054086
1106.60	7.73	0.054135
1106.80	7.75	0.054184
1107.00	7.76	0.054234
1107.20	7.78	0.054284
1107.40	7.80	0.054335
1107.60	7.82	0.054385
1107.80	7.84	0.054437
1108.00	7.85	0.054488
1108.20	7.87	0.054540
1108.40	7.89	0.054592
1108.60	7.91	0.054644
1108.80	7.93	0.054697
1109.00	7.95	0.054750
1109.20	7.97	0.054804
1109.40	7.98	0.054858
1109.60	8.00	0.054912
1109.80	8.02	0.054967
1110.00	8.04	0.055022
1110.20	8.06	0.055077
1110.40	8.08	0.055133
1110.60	8.10	0.055189
1110.80	8.12	0.055245
1111.00	8.14	0.055302
1111.20	8.16	0.055360
1111.40	8.18	0.055417
1111.60	8.20	0.055476
1111.80	8.22	0.055534
1112.00	8.24	0.055593
1112.20	8.26	0.055652
1112.40	8.29	0.055712
1112.60	8.31	0.055773
1112.80	8.33	0.055833
1113.00	8.35	0.055894
1113.20	8.37	0.055956
1113.40	8.39	0.056018
1113.60	8.42	0.056081
1113.80	8.44	0.056144
1114.00	8.46	0.056207
1114.20	8.48	0.056271
1114.40	8.51	0.056335
1114.60	8.53	0.056400
1114.80	8.55	0.056466
1115.00	8.57	0.056532
1115.20	8.60	0.056598
1115.40	8.62	0.056665
1115.60	8.64	0.056733
1115.80	8.67	0.056801
1116.00	8.69	0.056869
1116.20	8.72	0.056938
1116.40	8.74	0.057008
1116.60	8.77	0.057078
1116.80	8.79	0.057149
1117.00	8.82	0.057220
1117.20	8.84	0.057292
1117.40	8.87	0.057364
1117.60	8.89	0.057438
1117.80	8.92	0.057511
1118.00	8.95	0.057585
1118.20	8.97	0.057660
1118.40	9.00	0.057736
1118.60	9.02	0.057812
1118.80	9.05	0.057889
1119.00	9.08	0.057966
1119.20	9.11	0.058045
1119.40	9.13	0.058123

1119.60	9.16	0.058203
1119.80	9.19	0.058283
1120.00	9.22	0.058364
1120.20	9.25	0.058445
1120.40	9.28	0.058528
1120.60	9.31	0.058611
1120.80	9.34	0.058695
1121.00	9.37	0.058779
1121.20	9.40	0.058864
1121.40	9.43	0.058951
1121.60	9.46	0.059037
1121.80	9.49	0.059125
1122.00	9.52	0.059214
1122.20	9.55	0.059303
1122.40	9.58	0.059393
1122.60	9.61	0.059484
1122.80	9.64	0.059577
1123.00	9.67	0.059671
1123.20	9.70	0.059766
1123.40	9.74	0.059863
1123.60	9.77	0.059962
1123.80	9.80	0.060061
1124.00	9.83	0.060162
1124.20	9.87	0.060264
1124.40	9.90	0.060368
1124.60	9.93	0.060472
1124.80	9.97	0.060578
1125.00	10.00	0.060686
1125.20	10.04	0.060794
1125.40	10.08	0.060904
1125.60	10.11	0.061015
1125.80	10.15	0.061128
1126.00	10.19	0.061242
1126.20	10.22	0.061357
1126.40	10.26	0.061473
1126.60	10.30	0.061591
1126.80	10.34	0.061711
1127.00	10.38	0.061831
1127.20	10.42	0.061953
1127.40	10.46	0.062076
1127.60	10.50	0.062201
1127.80	10.54	0.062327
1128.00	10.58	0.062455
1128.20	10.62	0.062584
1128.40	10.67	0.062715
1128.60	10.71	0.062847
1128.80	10.75	0.062981
1129.00	10.80	0.063117
1129.20	10.84	0.063254
1129.40	10.89	0.063392
1129.60	10.93	0.063532
1129.80	10.98	0.063674
1130.00	11.03	0.063818
1130.20	11.07	0.063964
1130.40	11.12	0.064111
1130.60	11.17	0.064260
1130.80	11.22	0.064411
1131.00	11.27	0.064564
1131.20	11.32	0.064719
1131.40	11.37	0.064876
1131.60	11.42	0.065034
1131.80	11.48	0.065195
1132.00	11.53	0.065358
1132.20	11.58	0.065523
1132.40	11.64	0.065691
1132.60	11.69	0.065860

1132.80	11.75	0.066032
1133.00	11.81	0.066206
1133.20	11.86	0.066383
1133.40	11.92	0.066562
1133.60	11.98	0.066743
1133.80	12.04	0.066927
1134.00	12.10	0.067114
1134.20	12.16	0.067303
1134.40	12.23	0.067492
1134.60	12.29	0.067681
1134.80	12.35	0.067871
1135.00	12.41	0.068061
1135.20	12.47	0.068253
1135.40	12.54	0.068446
1135.60	12.60	0.068640
1135.80	12.67	0.068835
1136.00	12.73	0.069033
1136.20	12.79	0.069232
1136.40	12.86	0.069433
1136.60	12.93	0.069636
1136.80	12.99	0.069842
1137.00	13.06	0.070050
1137.20	13.13	0.070260
1137.40	13.20	0.070473
1137.60	13.27	0.070689
1137.80	13.34	0.070908
1138.00	13.41	0.071130
1138.20	13.49	0.071355
1138.40	13.55	0.071587
1138.60	13.61	0.071827
1138.80	13.67	0.072075
1139.00	13.73	0.072330
1139.20	13.80	0.072593
1139.40	13.87	0.072864
1139.60	13.93	0.073142
1139.80	14.01	0.073428
1140.00	14.08	0.073721
1140.20	14.15	0.074022
1140.40	14.23	0.074331
1140.60	14.31	0.074647
1140.80	14.39	0.074972
1141.00	14.47	0.075304
1141.20	14.56	0.075644
1141.40	14.65	0.075993
1141.60	14.74	0.076350
1141.80	14.83	0.076715
1142.00	14.92	0.077090
1142.20	15.02	0.077473
1142.40	15.11	0.077865
1142.60	15.21	0.078267
1142.80	15.32	0.078678
1143.00	15.42	0.079099
1143.20	15.53	0.079531
1143.40	15.64	0.079973
1143.60	15.75	0.080426
1143.80	15.87	0.080891
1144.00	15.99	0.081367
1144.20	16.11	0.081855
1144.40	16.23	0.082356
1144.60	16.36	0.082870
1144.80	16.49	0.083398
1145.00	16.61	0.083945
1145.20	16.73	0.084511
1145.40	16.86	0.085098
1145.60	16.99	0.085705
1145.80	17.13	0.086334

1146.00	17.27	0.086985
1146.20	17.41	0.087659
1146.40	17.56	0.088356
1146.60	17.72	0.089079
1146.80	17.88	0.089828
1147.00	18.04	0.090604
1147.20	18.22	0.091409
1147.40	18.40	0.092244
1147.60	18.58	0.093111
1147.80	18.78	0.094012
1148.00	18.98	0.094948
1148.20	19.18	0.095926
1148.40	19.37	0.096942
1148.60	19.57	0.097999
1148.80	19.78	0.099100
1149.00	20.00	0.100249
1149.20	20.22	0.101450
1149.40	20.46	0.102706
1149.60	20.71	0.104024
1149.80	20.97	0.105408
1150.00	21.25	0.106866
1150.20	21.52	0.108412
1150.40	21.79	0.110061
1150.60	22.08	0.111826
1150.80	22.39	0.113724
1151.00	22.72	0.115776
1151.20	23.08	0.118013
1151.40	23.47	0.120478
1151.60	23.89	0.123249
1151.80	24.37	0.126470
1152.00	24.98	0.130944
1152.20	25.69	0.135901
1152.40	26.40	0.140889
1152.60	27.11	0.145830
1152.80	27.81	0.150682
1153.00	28.50	0.155421
1153.20	29.12	0.160046
1153.40	29.69	0.164551
1153.60	30.25	0.168927
1153.80	30.80	0.173167
1154.00	31.32	0.177267
1154.20	31.82	0.181225
1154.40	32.28	0.185044
1154.60	32.72	0.188723
1154.80	33.14	0.192260
1155.00	33.52	0.195660
1155.20	33.89	0.198922
1155.40	34.24	0.202044
1155.60	34.57	0.205024
1155.80	34.89	0.207863
1156.00	35.19	0.210559
1156.20	35.48	0.213111
1156.40	35.75	0.215519
1156.60	36.01	0.217781
1156.80	36.25	0.219899
1157.00	36.47	0.221869
1157.20	36.68	0.223693
1157.40	36.87	0.225369
1157.60	37.04	0.226897
1157.80	37.19	0.228279
1158.00	37.32	0.229513
1158.20	37.44	0.230597
1158.40	37.54	0.231530
1158.60	37.63	0.232308
1158.80	37.70	0.232930
1159.00	37.75	0.233392

1159.20	37.79	0.233691
1159.40	37.81	0.233823
1159.60	37.82	0.233803
1159.80	37.80	0.233674
1160.00	37.77	0.233359
1160.20	37.72	0.232843
1160.40	37.65	0.232116
1160.60	37.55	0.231167
1160.80	37.43	0.229984
1161.00	37.29	0.228546
1161.20	37.11	0.226832
1161.40	36.90	0.224806
1161.60	36.64	0.222419
1161.80	36.33	0.219576
1162.00	35.91	0.215788
1162.20	35.39	0.211022
1162.40	34.83	0.205899
1162.60	34.26	0.200690
1162.80	33.69	0.195456
1163.00	33.12	0.190241
1163.20	32.51	0.185076
1163.40	31.90	0.179974
1163.60	31.28	0.174951
1163.80	30.65	0.170011
1164.00	30.03	0.165152
1164.20	29.42	0.160379
1164.40	28.82	0.155694
1164.60	28.18	0.151116
1164.80	27.53	0.146651
1165.00	26.90	0.142298
1165.20	26.28	0.138057
1165.40	25.69	0.133926
1165.60	25.08	0.129911
1165.80	24.45	0.126021
1166.00	23.83	0.122254
1166.20	23.23	0.118608
1166.40	22.63	0.115087
1166.60	22.05	0.111686
1166.80	21.48	0.108401
1167.00	20.87	0.105248
1167.20	20.28	0.102225
1167.40	19.70	0.099326
1167.60	19.15	0.096546
1167.80	18.57	0.093897
1168.00	18.00	0.091373
1168.20	17.46	0.088969
1168.40	16.95	0.086678
1168.60	16.45	0.084497
1168.80	15.92	0.082438
1169.00	15.41	0.080492
1169.20	14.93	0.078654
1169.40	14.48	0.076916
1169.60	14.05	0.075273
1169.80	13.65	0.073719
1170.00	13.20	0.072266
1170.20	12.74	0.070919
1170.40	12.32	0.069669
1170.60	11.92	0.068509
1170.80	11.55	0.067430
1171.00	11.21	0.066426
1171.20	10.89	0.065492
1171.40	10.60	0.064621
1171.60	10.32	0.063809
1171.80	10.06	0.063051
1172.00	9.82	0.062343
1172.20	9.60	0.061681

1172.40	9.37	0.061065
1172.60	9.16	0.060491
1172.80	8.97	0.059956
1173.00	8.78	0.059457
1173.20	8.61	0.058991
1173.40	8.45	0.058554
1173.60	8.30	0.058145
1173.80	8.16	0.057761
1174.00	8.03	0.057399
1174.20	7.91	0.057059
1174.40	7.79	0.056739
1174.60	7.68	0.056436
1174.80	7.58	0.056150
1175.00	7.48	0.055879
1175.20	7.38	0.055622
1175.40	7.30	0.055378
1175.60	7.21	0.055145
1175.80	7.13	0.054924
1176.00	7.05	0.054713
1176.20	6.98	0.054511
1176.40	6.91	0.054318
1176.60	6.85	0.054133
1176.80	6.78	0.053956
1177.00	6.72	0.053786
1177.20	6.66	0.053622
1177.40	6.60	0.053464
1177.60	6.55	0.053311
1177.80	6.50	0.053164
1178.00	6.44	0.053022
1178.20	6.40	0.052885
1178.40	6.35	0.052752
1178.60	6.30	0.052622
1178.80	6.26	0.052497
1179.00	6.21	0.052375
1179.20	6.17	0.052257
1179.40	6.13	0.052142
1179.60	6.09	0.052029
1179.80	6.05	0.051920
1180.00	6.01	0.051813
1180.20	5.97	0.051709
1180.40	5.94	0.051607
1180.60	5.90	0.051508
1180.80	5.87	0.051411
1181.00	5.83	0.051315
1181.20	5.80	0.051222
1181.40	5.77	0.051131
1181.60	5.73	0.051041
1181.80	5.70	0.050953
1182.00	5.67	0.050867
1182.20	5.64	0.050780
1182.40	5.61	0.050694
1182.60	5.58	0.050609
1182.80	5.55	0.050524
1183.00	5.52	0.050440
1183.20	5.49	0.050356
1183.40	5.46	0.050273
1183.60	5.43	0.050191
1183.80	5.40	0.050109
1184.00	5.39	0.050025
1184.20	5.37	0.049938
1184.40	5.35	0.049849
1184.60	5.34	0.049758
1184.80	5.32	0.049664
1185.00	5.30	0.049569
1185.20	5.29	0.049472
1185.40	5.27	0.049373

1185.60	5.25	0.049273
1185.80	5.23	0.049172
1186.00	5.21	0.049070
1186.20	5.19	0.048967
1186.40	5.17	0.048863
1186.60	5.15	0.048758
1186.80	5.13	0.048652
1187.00	5.11	0.048546
1187.20	5.10	0.048440
1187.40	5.08	0.048333
1187.60	5.06	0.048226
1187.80	5.04	0.048119
1188.00	5.02	0.048012
1188.20	5.00	0.047905
1188.40	4.98	0.047797
1188.60	4.96	0.047690
1188.80	4.94	0.047583
1189.00	4.92	0.047476
1189.20	4.90	0.047370
1189.40	4.88	0.047263
1189.60	4.86	0.047157
1189.80	4.84	0.047052
1190.00	4.82	0.046946
1190.20	4.80	0.046842
1190.40	4.78	0.046737
1190.60	4.76	0.046633
1190.80	4.74	0.046530
1191.00	4.72	0.046427
1191.20	4.70	0.046325
1191.40	4.68	0.046223
1191.60	4.67	0.046122
1191.80	4.65	0.046021
1192.00	4.63	0.045921
1192.20	4.61	0.045822
1192.40	4.59	0.045723
1192.60	4.57	0.045625
1192.80	4.56	0.045528
1193.00	4.54	0.045432
1193.20	4.52	0.045336
1193.40	4.50	0.045240
1193.60	4.48	0.045146
1193.80	4.47	0.045052
1194.00	4.45	0.044959
1194.20	4.43	0.044866
1194.40	4.42	0.044775
1194.60	4.40	0.044683
1194.80	4.38	0.044593
1195.00	4.36	0.044503
1195.20	4.35	0.044415
1195.40	4.33	0.044326
1195.60	4.32	0.044239
1195.80	4.30	0.044152
1196.00	4.28	0.044066
1196.20	4.27	0.043980
1196.40	4.25	0.043896
1196.60	4.24	0.043812
1196.80	4.22	0.043728
1197.00	4.21	0.043646
1197.20	4.19	0.043564
1197.40	4.17	0.043482
1197.60	4.16	0.043402
1197.80	4.15	0.043322
1198.00	4.13	0.043243
1198.20	4.12	0.043164
1198.40	4.10	0.043086
1198.60	4.09	0.043009

1198.80	4.07	0.042932
1199.00	4.06	0.042856
1199.20	4.04	0.042780
1199.40	4.03	0.042706
1199.60	4.02	0.042632
1199.80	4.00	0.042558
1200.00	3.99	0.042485
1200.20	3.98	0.042413
1200.40	3.96	0.042341
1200.60	3.95	0.042270
1200.80	3.94	0.042199
1201.00	3.92	0.042129
1201.20	3.91	0.042060
1201.40	3.90	0.041991
1201.60	3.88	0.041923
1201.80	3.87	0.041855
1202.00	3.86	0.041788
1202.20	3.85	0.041721
1202.40	3.84	0.041655
1202.60	3.82	0.041590
1202.80	3.81	0.041525
1203.00	3.80	0.041460
1203.20	3.79	0.041396
1203.40	3.78	0.041333
1203.60	3.76	0.041270
1203.80	3.75	0.041208
1204.00	3.74	0.041146
1204.20	3.73	0.041084
1204.40	3.72	0.041023
1204.60	3.71	0.040963
1204.80	3.70	0.040903
1205.00	3.68	0.040843
1205.20	3.67	0.040784
1205.40	3.66	0.040726
1205.60	3.65	0.040668
1205.80	3.64	0.040610
1206.00	3.63	0.040553
1206.20	3.62	0.040496
1206.40	3.61	0.040439
1206.60	3.60	0.040383
1206.80	3.59	0.040328
1207.00	3.58	0.040273
1207.20	3.57	0.040218
1207.40	3.56	0.040164
1207.60	3.55	0.040110
1207.80	3.54	0.040056
1208.00	3.53	0.040003
1208.20	3.52	0.039951
1208.40	3.51	0.039898
1208.60	3.50	0.039846
1208.80	3.49	0.039795
1209.00	3.48	0.039744
1209.20	3.47	0.039693
1209.40	3.46	0.039643
1209.60	3.45	0.039592
1209.80	3.44	0.039543
1210.00	3.43	0.039493
1210.20	3.42	0.039444
1210.40	3.42	0.039396
1210.60	3.41	0.039347
1210.80	3.40	0.039299
1211.00	3.39	0.039252
1211.20	3.38	0.039205
1211.40	3.37	0.039158
1211.60	3.36	0.039111
1211.80	3.35	0.039065

1212.00	3.35	0.039019
1212.20	3.34	0.038973
1212.40	3.33	0.038928
1212.60	3.32	0.038882
1212.80	3.31	0.038838
1213.00	3.30	0.038793
1213.20	3.29	0.038749
1213.40	3.29	0.038705
1213.60	3.28	0.038662
1213.80	3.27	0.038618
1214.00	3.26	0.038575
1214.20	3.25	0.038533
1214.40	3.25	0.038490
1214.60	3.24	0.038448
1214.80	3.23	0.038406
1215.00	3.22	0.038364
1215.20	3.22	0.038323
1215.40	3.21	0.038282
1215.60	3.20	0.038241
1215.80	3.19	0.038200
1216.00	3.19	0.038159
1216.20	3.18	0.038118
1216.40	3.18	0.038076
1216.60	3.17	0.038035
1216.80	3.16	0.037993
1217.00	3.16	0.037951
1217.20	3.15	0.037909
1217.40	3.15	0.037867
1217.60	3.14	0.037825
1217.80	3.13	0.037783
1218.00	3.13	0.037741
1218.20	3.12	0.037698
1218.40	3.12	0.037656
1218.60	3.11	0.037614
1218.80	3.10	0.037572
1219.00	3.10	0.037530
1219.20	3.09	0.037487
1219.40	3.09	0.037445
1219.60	3.08	0.037403
1219.80	3.07	0.037361
1220.00	3.07	0.037319
1220.20	3.06	0.037277
1220.40	3.06	0.037235
1220.60	3.05	0.037193
1220.80	3.04	0.037151
1221.00	3.04	0.037109
1221.20	3.03	0.037068
1221.40	3.03	0.037026
1221.60	3.02	0.036985
1221.80	3.01	0.036943
1222.00	3.01	0.036902
1222.20	3.00	0.036861
1222.40	3.00	0.036820
1222.60	2.99	0.036779
1222.80	2.99	0.036738
1223.00	2.98	0.036697
1223.20	2.97	0.036657
1223.40	2.97	0.036616
1223.60	2.96	0.036576
1223.80	2.96	0.036536
1224.00	2.95	0.036496
1224.20	2.94	0.036456
1224.40	2.94	0.036416
1224.60	2.93	0.036376
1224.80	2.93	0.036337
1225.00	2.92	0.036297

1225.20	2.92	0.036258
1225.40	2.91	0.036219
1225.60	2.91	0.036180
1225.80	2.90	0.036141
1226.00	2.89	0.036103
1226.20	2.89	0.036064
1226.40	2.88	0.036026
1226.60	2.88	0.035987
1226.80	2.87	0.035949
1227.00	2.87	0.035912
1227.20	2.86	0.035874
1227.40	2.86	0.035836
1227.60	2.85	0.035799
1227.80	2.85	0.035761
1228.00	2.84	0.035724
1228.20	2.83	0.035687
1228.40	2.83	0.035650
1228.60	2.82	0.035614
1228.80	2.82	0.035577
1229.00	2.81	0.035541
1229.20	2.81	0.035505
1229.40	2.80	0.035469
1229.60	2.80	0.035433
1229.80	2.79	0.035397
1230.00	2.79	0.035361
1230.20	2.78	0.035326
1230.40	2.78	0.035291
1230.60	2.77	0.035255
1230.80	2.77	0.035221
1231.00	2.76	0.035186
1231.20	2.76	0.035151
1231.40	2.75	0.035116
1231.60	2.75	0.035082
1231.80	2.74	0.035048
1232.00	2.74	0.035014
1232.20	2.73	0.034980
1232.40	2.73	0.034946
1232.60	2.72	0.034912
1232.80	2.72	0.034879
1233.00	2.71	0.034846
1233.20	2.71	0.034812
1233.40	2.70	0.034779
1233.60	2.70	0.034746
1233.80	2.70	0.034714
1234.00	2.69	0.034681
1234.20	2.69	0.034649
1234.40	2.68	0.034616
1234.60	2.68	0.034584
1234.80	2.67	0.034552
1235.00	2.67	0.034520
1235.20	2.66	0.034489
1235.40	2.66	0.034457
1235.60	2.65	0.034425
1235.80	2.65	0.034394
1236.00	2.64	0.034363
1236.20	2.64	0.034332
1236.40	2.64	0.034301
1236.60	2.63	0.034270
1236.80	2.63	0.034239
1237.00	2.62	0.034209
1237.20	2.62	0.034179
1237.40	2.61	0.034148
1237.60	2.61	0.034117
1237.80	2.61	0.034086
1238.00	2.60	0.034054
1238.20	2.60	0.034023

1238.40	2.59	0.033991
1238.60	2.59	0.033959
1238.80	2.58	0.033927
1239.00	2.58	0.033894
1239.20	2.57	0.033862
1239.40	2.57	0.033829
1239.60	2.56	0.033797
1239.80	2.56	0.033764
1240.00	2.55	0.033731
1240.20	2.55	0.033698
1240.40	2.55	0.033665
1240.60	2.54	0.033632
1240.80	2.54	0.033599
1241.00	2.53	0.033566
1241.20	2.53	0.033533
1241.40	2.52	0.033500
1241.60	2.52	0.033466
1241.80	2.51	0.033433
1242.00	2.51	0.033400
1242.20	2.50	0.033366
1242.40	2.50	0.033333
1242.60	2.49	0.033300
1242.80	2.49	0.033267
1243.00	2.48	0.033233
1243.20	2.48	0.033200
1243.40	2.47	0.033167
1243.60	2.47	0.033134
1243.80	2.46	0.033101
1244.00	2.46	0.033068
1244.20	2.45	0.033035
1244.40	2.45	0.033002
1244.60	2.45	0.032969
1244.80	2.44	0.032936
1245.00	2.44	0.032903
1245.20	2.43	0.032870
1245.40	2.43	0.032837
1245.60	2.42	0.032805
1245.80	2.42	0.032772
1246.00	2.41	0.032740
1246.20	2.41	0.032707
1246.40	2.40	0.032675
1246.60	2.40	0.032643
1246.80	2.39	0.032610
1247.00	2.39	0.032578
1247.20	2.38	0.032546
1247.40	2.38	0.032514
1247.60	2.38	0.032483
1247.80	2.37	0.032451
1248.00	2.37	0.032419
1248.20	2.36	0.032387
1248.40	2.36	0.032356
1248.60	2.35	0.032325
1248.80	2.35	0.032293
1249.00	2.34	0.032262
1249.20	2.34	0.032231
1249.40	2.34	0.032200
1249.60	2.33	0.032169
1249.80	2.33	0.032138
1250.00	2.32	0.032107
1250.20	2.32	0.032077
1250.40	2.31	0.032046
1250.60	2.31	0.032016
1250.80	2.30	0.031985
1251.00	2.30	0.031955
1251.20	2.30	0.031925
1251.40	2.29	0.031895

1251.60	2.29	0.031865
1251.80	2.28	0.031835
1252.00	2.28	0.031806
1252.20	2.27	0.031776
1252.40	2.27	0.031746
1252.60	2.27	0.031717
1252.80	2.26	0.031688
1253.00	2.26	0.031659
1253.20	2.25	0.031629
1253.40	2.25	0.031600
1253.60	2.25	0.031572
1253.80	2.24	0.031543
1254.00	2.24	0.031514
1254.20	2.23	0.031486
1254.40	2.23	0.031457
1254.60	2.22	0.031429
1254.80	2.22	0.031400
1255.00	2.22	0.031372
1255.20	2.21	0.031344
1255.40	2.21	0.031316
1255.60	2.20	0.031288
1255.80	2.20	0.031261
1256.00	2.20	0.031233
1256.20	2.19	0.031205
1256.40	2.19	0.031178
1256.60	2.18	0.031151
1256.80	2.18	0.031123
1257.00	2.18	0.031096
1257.20	2.17	0.031069
1257.40	2.17	0.031042
1257.60	2.17	0.031015
1257.80	2.16	0.030989
1258.00	2.16	0.030962
1258.20	2.15	0.030935
1258.40	2.15	0.030909
1258.60	2.15	0.030883
1258.80	2.14	0.030856
1259.00	2.14	0.030830
1259.20	2.14	0.030804
1259.40	2.13	0.030778
1259.60	2.13	0.030752
1259.80	2.12	0.030726
1260.00	2.12	0.030701
1260.20	2.12	0.030675
1260.40	2.11	0.030650
1260.60	2.11	0.030624
1260.80	2.11	0.030599
1261.00	2.10	0.030574
1261.20	2.10	0.030549
1261.40	2.09	0.030524
1261.60	2.09	0.030499
1261.80	2.09	0.030474
1262.00	2.08	0.030449
1262.20	2.08	0.030424
1262.40	2.08	0.030400
1262.60	2.07	0.030375
1262.80	2.07	0.030351
1263.00	2.07	0.030327
1263.20	2.06	0.030303
1263.40	2.06	0.030278
1263.60	2.06	0.030254
1263.80	2.05	0.030230
1264.00	2.05	0.030207
1264.20	2.05	0.030183
1264.40	2.04	0.030159
1264.60	2.04	0.030136

1264.80	2.04	0.030112
1265.00	2.03	0.030089
1265.20	2.03	0.030065
1265.40	2.03	0.030042
1265.60	2.02	0.030019
1265.80	2.02	0.029996
1266.00	2.02	0.029973
1266.20	2.01	0.029950
1266.40	2.01	0.029927
1266.60	2.01	0.029904
1266.80	2.00	0.029882
1267.00	2.00	0.029859
1267.20	2.00	0.029836
1267.40	1.99	0.029814
1267.60	1.99	0.029792
1267.80	1.99	0.029769
1268.00	1.98	0.029747
1268.20	1.98	0.029725
1268.40	1.98	0.029703
1268.60	1.97	0.029681
1268.80	1.97	0.029659
1269.00	1.97	0.029637
1269.20	1.96	0.029616
1269.40	1.96	0.029594
1269.60	1.96	0.029572
1269.80	1.96	0.029551
1270.00	1.95	0.029529
1270.20	1.95	0.029508
1270.40	1.95	0.029487
1270.60	1.94	0.029466
1270.80	1.94	0.029445
1271.00	1.94	0.029423
1271.20	1.93	0.029402
1271.40	1.93	0.029382
1271.60	1.93	0.029361
1271.80	1.93	0.029340
1272.00	1.92	0.029319
1272.20	1.92	0.029299
1272.40	1.92	0.029278
1272.60	1.91	0.029258
1272.80	1.91	0.029237
1273.00	1.91	0.029217
1273.20	1.90	0.029197
1273.40	1.90	0.029176
1273.60	1.90	0.029156
1273.80	1.90	0.029136
1274.00	1.89	0.029116
1274.20	1.89	0.029096
1274.40	1.89	0.029076
1274.60	1.88	0.029057
1274.80	1.88	0.029037
1275.00	1.88	0.029017
1275.20	1.88	0.028997
1275.40	1.87	0.028978
1275.60	1.87	0.028958
1275.80	1.87	0.028939
1276.00	1.87	0.028920
1276.20	1.86	0.028900
1276.40	1.86	0.028881
1276.60	1.86	0.028862
1276.80	1.85	0.028843
1277.00	1.85	0.028824
1277.20	1.85	0.028805
1277.40	1.85	0.028786
1277.60	1.84	0.028767
1277.80	1.84	0.028748

1278.00	1.84	0.028730
1278.20	1.84	0.028711
1278.40	1.83	0.028693
1278.60	1.83	0.028674
1278.80	1.83	0.028656
1279.00	1.82	0.028637
1279.20	1.82	0.028619
1279.40	1.82	0.028600
1279.60	1.82	0.028582
1279.80	1.81	0.028564
1280.00	1.81	0.028546
1280.20	1.81	0.028528
1280.40	1.81	0.028510
1280.60	1.80	0.028492
1280.80	1.80	0.028474
1281.00	1.80	0.028456
1281.20	1.80	0.028438
1281.40	1.79	0.028421
1281.60	1.79	0.028403
1281.80	1.79	0.028385
1282.00	1.79	0.028368
1282.20	1.78	0.028350
1282.40	1.78	0.028333
1282.60	1.78	0.028315
1282.80	1.78	0.028298
1283.00	1.77	0.028281
1283.20	1.77	0.028264
1283.40	1.77	0.028246
1283.60	1.77	0.028229
1283.80	1.76	0.028212
1284.00	1.76	0.028195
1284.20	1.76	0.028178
1284.40	1.76	0.028161
1284.60	1.75	0.028145
1284.80	1.75	0.028128
1285.00	1.75	0.028111
1285.20	1.75	0.028094
1285.40	1.74	0.028078
1285.60	1.74	0.028061
1285.80	1.74	0.028045
1286.00	1.74	0.028028
1286.20	1.73	0.028012
1286.40	1.73	0.027995
1286.60	1.73	0.027979
1286.80	1.73	0.027963
1287.00	1.73	0.027946
1287.20	1.72	0.027930
1287.40	1.72	0.027914
1287.60	1.72	0.027898
1287.80	1.72	0.027882
1288.00	1.71	0.027866
1288.20	1.71	0.027850
1288.40	1.71	0.027834
1288.60	1.71	0.027818
1288.80	1.70	0.027802
1289.00	1.70	0.027787
1289.20	1.70	0.027771
1289.40	1.70	0.027755
1289.60	1.70	0.027740
1289.80	1.69	0.027724
1290.00	1.69	0.027709
1290.20	1.69	0.027693
1290.40	1.69	0.027678
1290.60	1.68	0.027662
1290.80	1.68	0.027647
1291.00	1.68	0.027632

1291.20	1.68	0.027616
1291.40	1.68	0.027601
1291.60	1.67	0.027586
1291.80	1.67	0.027571
1292.00	1.67	0.027556
1292.20	1.67	0.027541
1292.40	1.67	0.027526
1292.60	1.66	0.027511
1292.80	1.66	0.027496
1293.00	1.66	0.027481
1293.20	1.66	0.027466
1293.40	1.65	0.027451
1293.60	1.65	0.027437
1293.80	1.65	0.027422
1294.00	1.65	0.027407
1294.20	1.65	0.027393
1294.40	1.64	0.027378
1294.60	1.64	0.027364
1294.80	1.64	0.027349
1295.00	1.64	0.027335
1295.20	1.64	0.027320
1295.40	1.63	0.027306
1295.60	1.63	0.027292
1295.80	1.63	0.027277
1296.00	1.63	0.027263
1296.20	1.63	0.027249
1296.40	1.62	0.027235
1296.60	1.62	0.027221
1296.80	1.62	0.027207
1297.00	1.62	0.027192
1297.20	1.62	0.027178
1297.40	1.61	0.027165
1297.60	1.61	0.027151
1297.80	1.61	0.027137
1298.00	1.61	0.027123
1298.20	1.61	0.027109
1298.40	1.60	0.027095
1298.60	1.60	0.027082
1298.80	1.60	0.027068
1299.00	1.60	0.027054
1299.20	1.60	0.027041
1299.40	1.59	0.027027
1299.60	1.59	0.027013
1299.80	1.59	0.027000
1300.00	1.59	0.026986
1300.20	1.59	0.026973
1300.40	1.58	0.026960
1300.60	1.58	0.026946
1300.80	1.58	0.026933
1301.00	1.58	0.026920
1301.20	1.58	0.026906
1301.40	1.57	0.026893
1301.60	1.57	0.026880
1301.80	1.57	0.026867
1302.00	1.57	0.026854
1302.20	1.57	0.026841
1302.40	1.57	0.026828
1302.60	1.56	0.026815
1302.80	1.56	0.026802
1303.00	1.56	0.026789
1303.20	1.56	0.026776
1303.40	1.56	0.026763
1303.60	1.55	0.026750
1303.80	1.55	0.026737
1304.00	1.55	0.026725
1304.20	1.55	0.026712

1304.40	1.55	0.026699
1304.60	1.55	0.026687
1304.80	1.54	0.026674
1305.00	1.54	0.026661
1305.20	1.54	0.026649
1305.40	1.54	0.026636
1305.60	1.54	0.026624
1305.80	1.53	0.026611
1306.00	1.53	0.026599
1306.20	1.53	0.026587
1306.40	1.53	0.026574
1306.60	1.53	0.026562
1306.80	1.53	0.026550
1307.00	1.52	0.026537
1307.20	1.52	0.026525
1307.40	1.52	0.026513
1307.60	1.52	0.026501
1307.80	1.52	0.026489
1308.00	1.51	0.026477
1308.20	1.51	0.026464
1308.40	1.51	0.026452
1308.60	1.51	0.026440
1308.80	1.51	0.026428
1309.00	1.51	0.026416
1309.20	1.50	0.026405
1309.40	1.50	0.026393
1309.60	1.50	0.026381
1309.80	1.50	0.026369
1310.00	1.50	0.026357
1310.20	1.50	0.026345
1310.40	1.50	0.026332
1310.60	1.50	0.026320
1310.80	1.49	0.026308
1311.00	1.49	0.026295
1311.20	1.49	0.026282
1311.40	1.49	0.026270
1311.60	1.49	0.026257
1311.80	1.49	0.026244
1312.00	1.49	0.026231
1312.20	1.49	0.026217
1312.40	1.48	0.026204
1312.60	1.48	0.026191
1312.80	1.48	0.026177
1313.00	1.48	0.026164
1313.20	1.48	0.026150
1313.40	1.48	0.026137
1313.60	1.48	0.026123
1313.80	1.48	0.026109
1314.00	1.47	0.026095
1314.20	1.47	0.026081
1314.40	1.47	0.026067
1314.60	1.47	0.026053
1314.80	1.47	0.026039
1315.00	1.47	0.026025
1315.20	1.47	0.026011
1315.40	1.47	0.025997
1315.60	1.46	0.025982
1315.80	1.46	0.025968
1316.00	1.46	0.025954
1316.20	1.46	0.025939
1316.40	1.46	0.025925
1316.60	1.46	0.025911
1316.80	1.46	0.025896
1317.00	1.45	0.025882
1317.20	1.45	0.025867
1317.40	1.45	0.025852

1317.60	1.45	0.025838
1317.80	1.45	0.025823
1318.00	1.45	0.025809
1318.20	1.45	0.025794
1318.40	1.45	0.025779
1318.60	1.44	0.025765
1318.80	1.44	0.025750
1319.00	1.44	0.025735
1319.20	1.44	0.025720
1319.40	1.44	0.025706
1319.60	1.44	0.025691
1319.80	1.44	0.025676
1320.00	1.43	0.025661
1320.20	1.43	0.025646
1320.40	1.43	0.025632
1320.60	1.43	0.025617
1320.80	1.43	0.025602
1321.00	1.43	0.025587
1321.20	1.43	0.025572
1321.40	1.42	0.025558
1321.60	1.42	0.025543
1321.80	1.42	0.025528
1322.00	1.42	0.025513
1322.20	1.42	0.025498
1322.40	1.42	0.025483
1322.60	1.42	0.025469
1322.80	1.42	0.025454
1323.00	1.41	0.025439
1323.20	1.41	0.025424
1323.40	1.41	0.025409
1323.60	1.41	0.025394
1323.80	1.41	0.025380
1324.00	1.41	0.025365
1324.20	1.41	0.025350
1324.40	1.40	0.025335
1324.60	1.40	0.025321
1324.80	1.40	0.025306
1325.00	1.40	0.025291
1325.20	1.40	0.025276
1325.40	1.40	0.025262
1325.60	1.40	0.025247
1325.80	1.39	0.025232
1326.00	1.39	0.025218
1326.20	1.39	0.025203
1326.40	1.39	0.025188
1326.60	1.39	0.025174
1326.80	1.39	0.025159
1327.00	1.39	0.025144
1327.20	1.39	0.025130
1327.40	1.38	0.025115
1327.60	1.38	0.025101
1327.80	1.38	0.025086
1328.00	1.38	0.025072
1328.20	1.38	0.025057
1328.40	1.38	0.025043
1328.60	1.38	0.025028
1328.80	1.37	0.025014
1329.00	1.37	0.024999
1329.20	1.37	0.024985
1329.40	1.37	0.024971
1329.60	1.37	0.024956
1329.80	1.37	0.024942
1330.00	1.37	0.024927
1330.20	1.37	0.024913
1330.40	1.36	0.024899
1330.60	1.36	0.024885

1330.80	1.36	0.024870
1331.00	1.36	0.024856
1331.20	1.36	0.024842
1331.40	1.36	0.024828
1331.60	1.36	0.024814
1331.80	1.35	0.024799
1332.00	1.35	0.024785
1332.20	1.35	0.024771
1332.40	1.35	0.024757
1332.60	1.35	0.024743
1332.80	1.35	0.024729
1333.00	1.35	0.024715
1333.20	1.35	0.024701
1333.40	1.34	0.024687
1333.60	1.34	0.024673
1333.80	1.34	0.024659
1334.00	1.34	0.024645
1334.20	1.34	0.024632
1334.40	1.34	0.024618
1334.60	1.34	0.024604
1334.80	1.34	0.024590
1335.00	1.33	0.024576
1335.20	1.33	0.024563
1335.40	1.33	0.024549
1335.60	1.33	0.024535
1335.80	1.33	0.024521
1336.00	1.33	0.024508
1336.20	1.33	0.024494
1336.40	1.32	0.024481
1336.60	1.32	0.024467
1336.80	1.32	0.024453
1337.00	1.32	0.024440
1337.20	1.32	0.024426
1337.40	1.32	0.024413
1337.60	1.32	0.024399
1337.80	1.32	0.024386
1338.00	1.31	0.024373
1338.20	1.31	0.024359
1338.40	1.31	0.024346
1338.60	1.31	0.024333
1338.80	1.31	0.024319
1339.00	1.31	0.024306
1339.20	1.31	0.024293
1339.40	1.31	0.024279
1339.60	1.31	0.024266
1339.80	1.30	0.024253
1340.00	1.30	0.024240
1340.20	1.30	0.024227
1340.40	1.30	0.024214
1340.60	1.30	0.024201
1340.80	1.30	0.024187
1341.00	1.30	0.024174
1341.20	1.30	0.024161
1341.40	1.29	0.024148
1341.60	1.29	0.024135
1341.80	1.29	0.024123
1342.00	1.29	0.024110
1342.20	1.29	0.024097
1342.40	1.29	0.024084
1342.60	1.29	0.024071
1342.80	1.29	0.024058
1343.00	1.28	0.024046
1343.20	1.28	0.024033
1343.40	1.28	0.024020
1343.60	1.28	0.024007
1343.80	1.28	0.023995

1344.00	1.28	0.023982
1344.20	1.28	0.023969
1344.40	1.28	0.023957
1344.60	1.28	0.023944
1344.80	1.27	0.023932
1345.00	1.27	0.023919
1345.20	1.27	0.023906
1345.40	1.27	0.023894
1345.60	1.27	0.023881
1345.80	1.27	0.023869
1346.00	1.27	0.023857
1346.20	1.27	0.023844
1346.40	1.26	0.023832
1346.60	1.26	0.023819
1346.80	1.26	0.023807
1347.00	1.26	0.023795
1347.20	1.26	0.023783
1347.40	1.26	0.023770
1347.60	1.26	0.023758
1347.80	1.26	0.023746
1348.00	1.26	0.023734
1348.20	1.25	0.023722
1348.40	1.25	0.023709
1348.60	1.25	0.023697
1348.80	1.25	0.023685
1349.00	1.25	0.023673
1349.20	1.25	0.023661
1349.40	1.25	0.023649
1349.60	1.25	0.023637
1349.80	1.25	0.023625
1350.00	1.24	0.023613
1350.20	1.24	0.023601
1350.40	1.24	0.023589
1350.60	1.24	0.023577
1350.80	1.24	0.023566
1351.00	1.24	0.023554
1351.20	1.24	0.023542
1351.40	1.24	0.023530
1351.60	1.24	0.023518
1351.80	1.23	0.023507
1352.00	1.23	0.023495
1352.20	1.23	0.023483
1352.40	1.23	0.023472
1352.60	1.23	0.023460
1352.80	1.23	0.023448
1353.00	1.23	0.023437
1353.20	1.23	0.023425
1353.40	1.23	0.023414
1353.60	1.22	0.023402
1353.80	1.22	0.023391
1354.00	1.22	0.023379
1354.20	1.22	0.023368
1354.40	1.22	0.023356
1354.60	1.22	0.023345
1354.80	1.22	0.023333
1355.00	1.22	0.023322
1355.20	1.22	0.023311
1355.40	1.22	0.023299
1355.60	1.21	0.023288
1355.80	1.21	0.023277
1356.00	1.21	0.023265
1356.20	1.21	0.023254
1356.40	1.21	0.023243
1356.60	1.21	0.023232
1356.80	1.21	0.023221
1357.00	1.21	0.023209

1357.20	1.21	0.023198
1357.40	1.21	0.023187
1357.60	1.20	0.023176
1357.80	1.20	0.023165
1358.00	1.20	0.023154
1358.20	1.20	0.023143
1358.40	1.20	0.023132
1358.60	1.20	0.023121
1358.80	1.20	0.023110
1359.00	1.20	0.023099
1359.20	1.20	0.023088
1359.40	1.19	0.023077
1359.60	1.19	0.023066
1359.80	1.19	0.023055
1360.00	1.19	0.023044
1360.20	1.19	0.023034
1360.40	1.19	0.023023
1360.60	1.19	0.023012
1360.80	1.19	0.023001
1361.00	1.19	0.022991
1361.20	1.19	0.022980
1361.40	1.18	0.022969
1361.60	1.18	0.022958
1361.80	1.18	0.022948
1362.00	1.18	0.022937
1362.20	1.18	0.022926
1362.40	1.18	0.022916
1362.60	1.18	0.022905
1362.80	1.18	0.022895
1363.00	1.18	0.022884
1363.20	1.18	0.022874
1363.40	1.18	0.022863
1363.60	1.17	0.022853
1363.80	1.17	0.022842
1364.00	1.17	0.022832
1364.20	1.17	0.022821
1364.40	1.17	0.022811
1364.60	1.17	0.022801
1364.80	1.17	0.022790
1365.00	1.17	0.022780
1365.20	1.17	0.022770
1365.40	1.17	0.022759
1365.60	1.16	0.022749
1365.80	1.16	0.022739
1366.00	1.16	0.022728
1366.20	1.16	0.022718
1366.40	1.16	0.022708
1366.60	1.16	0.022698
1366.80	1.16	0.022688
1367.00	1.16	0.022677
1367.20	1.16	0.022667
1367.40	1.16	0.022657
1367.60	1.15	0.022647
1367.80	1.15	0.022637
1368.00	1.15	0.022627
1368.20	1.15	0.022617
1368.40	1.15	0.022607
1368.60	1.15	0.022597
1368.80	1.15	0.022587
1369.00	1.15	0.022577
1369.20	1.15	0.022567
1369.40	1.15	0.022557
1369.60	1.15	0.022547
1369.80	1.14	0.022537
1370.00	1.14	0.022527
1370.20	1.14	0.022517

1370.40	1.14	0.022508
1370.60	1.14	0.022498
1370.80	1.14	0.022488
1371.00	1.14	0.022478
1371.20	1.14	0.022468
1371.40	1.14	0.022459
1371.60	1.14	0.022449
1371.80	1.14	0.022439
1372.00	1.13	0.022429
1372.20	1.13	0.022420
1372.40	1.13	0.022410
1372.60	1.13	0.022400
1372.80	1.13	0.022391
1373.00	1.13	0.022381
1373.20	1.13	0.022372
1373.40	1.13	0.022362
1373.60	1.13	0.022353
1373.80	1.13	0.022343
1374.00	1.13	0.022333
1374.20	1.13	0.022324
1374.40	1.12	0.022314
1374.60	1.12	0.022305
1374.80	1.12	0.022296
1375.00	1.12	0.022286
1375.20	1.12	0.022277
1375.40	1.12	0.022267
1375.60	1.12	0.022258
1375.80	1.12	0.022248
1376.00	1.12	0.022239
1376.20	1.12	0.022230
1376.40	1.12	0.022220
1376.60	1.11	0.022211
1376.80	1.11	0.022202
1377.00	1.11	0.022193
1377.20	1.11	0.022183
1377.40	1.11	0.022174
1377.60	1.11	0.022165
1377.80	1.11	0.022156
1378.00	1.11	0.022146
1378.20	1.11	0.022137
1378.40	1.11	0.022128
1378.60	1.11	0.022119
1378.80	1.11	0.022110
1379.00	1.10	0.022101
1379.20	1.10	0.022092
1379.40	1.10	0.022082
1379.60	1.10	0.022073
1379.80	1.10	0.022064
1380.00	1.10	0.022055
1380.20	1.10	0.022046
1380.40	1.10	0.022037
1380.60	1.10	0.022028
1380.80	1.10	0.022019
1381.00	1.10	0.022010
1381.20	1.10	0.022001
1381.40	1.09	0.021992
1381.60	1.09	0.021984
1381.80	1.09	0.021975
1382.00	1.09	0.021966
1382.20	1.09	0.021957
1382.40	1.09	0.021948
1382.60	1.09	0.021939
1382.80	1.09	0.021930
1383.00	1.09	0.021922
1383.20	1.09	0.021913
1383.40	1.09	0.021904

1383.60	1.09	0.021895
1383.80	1.08	0.021887
1384.00	1.08	0.021878
1384.20	1.08	0.021869
1384.40	1.08	0.021860
1384.60	1.08	0.021852
1384.80	1.08	0.021843
1385.00	1.08	0.021834
1385.20	1.08	0.021826
1385.40	1.08	0.021817
1385.60	1.08	0.021809
1385.80	1.08	0.021800
1386.00	1.08	0.021791
1386.20	1.07	0.021783
1386.40	1.07	0.021774
1386.60	1.07	0.021766
1386.80	1.07	0.021757
1387.00	1.07	0.021749
1387.20	1.07	0.021740
1387.40	1.07	0.021732
1387.60	1.07	0.021723
1387.80	1.07	0.021715
1388.00	1.07	0.021706
1388.20	1.07	0.021698
1388.40	1.07	0.021689
1388.60	1.07	0.021681
1388.80	1.06	0.021673
1389.00	1.06	0.021664
1389.20	1.06	0.021656
1389.40	1.06	0.021648
1389.60	1.06	0.021639
1389.80	1.06	0.021631
1390.00	1.06	0.021623
1390.20	1.06	0.021614
1390.40	1.06	0.021606
1390.60	1.06	0.021598
1390.80	1.06	0.021590
1391.00	1.06	0.021581
1391.20	1.06	0.021573
1391.40	1.05	0.021565
1391.60	1.05	0.021557
1391.80	1.05	0.021549
1392.00	1.05	0.021540
1392.20	1.05	0.021532
1392.40	1.05	0.021524
1392.60	1.05	0.021516
1392.80	1.05	0.021508
1393.00	1.05	0.021500
1393.20	1.05	0.021492
1393.40	1.05	0.021484
1393.60	1.05	0.021476
1393.80	1.05	0.021468
1394.00	1.04	0.021460
1394.20	1.04	0.021452
1394.40	1.04	0.021444
1394.60	1.04	0.021436
1394.80	1.04	0.021428
1395.00	1.04	0.021420
1395.20	1.04	0.021412
1395.40	1.04	0.021404
1395.60	1.04	0.021396
1395.80	1.04	0.021388
1396.00	1.04	0.021380
1396.20	1.04	0.021372
1396.40	1.04	0.021364
1396.60	1.04	0.021356

1396.80	1.03	0.021349
1397.00	1.03	0.021341
1397.20	1.03	0.021333
1397.40	1.03	0.021325
1397.60	1.03	0.021317
1397.80	1.03	0.021309
1398.00	1.03	0.021302
1398.20	1.03	0.021294
1398.40	1.03	0.021286
1398.60	1.03	0.021278
1398.80	1.03	0.021271
1399.00	1.03	0.021263
1399.20	1.03	0.021255
1399.40	1.03	0.021248
1399.60	1.02	0.021240
1399.80	1.02	0.021232
1400.00	1.02	0.021225
1400.20	1.02	0.021217
1400.40	1.02	0.021209
1400.60	1.02	0.021202
1400.80	1.02	0.021194
1401.00	1.02	0.021187
1401.20	1.02	0.021179
1401.40	1.02	0.021171
1401.60	1.02	0.021164
1401.80	1.02	0.021156
1402.00	1.02	0.021149
1402.20	1.02	0.021141
1402.40	1.01	0.021134
1402.60	1.01	0.021126
1402.80	1.01	0.021119
1403.00	1.01	0.021111
1403.20	1.01	0.021104
1403.40	1.01	0.021096
1403.60	1.01	0.021089
1403.80	1.01	0.021082
1404.00	1.01	0.021074
1404.20	1.01	0.021067
1404.40	1.01	0.021059
1404.60	1.01	0.021052
1404.80	1.01	0.021045
1405.00	1.01	0.021037
1405.20	1.01	0.021030
1405.40	1.00	0.021023
1405.60	1.00	0.021015
1405.80	1.00	0.021008
1406.00	1.00	0.021001
1406.20	1.00	0.020993
1406.40	1.00	0.020986
1406.60	1.00	0.020979
1406.80	1.00	0.020972
1407.00	1.00	0.020964
1407.20	1.00	0.020957
1407.40	1.00	0.020950
1407.60	1.00	0.020943
1407.80	1.00	0.020936
1408.00	1.00	0.020928
1408.20	1.00	0.020921
1408.40	0.99	0.020914
1408.60	0.99	0.020907
1408.80	0.99	0.020900
1409.00	0.99	0.020893
1409.20	0.99	0.020885
1409.40	0.99	0.020878
1409.60	0.99	0.020871
1409.80	0.99	0.020864

1410.00	0.99	0.020857
1410.20	0.99	0.020850
1410.40	0.99	0.020843
1410.60	0.99	0.020836
1410.80	0.99	0.020829
1411.00	0.99	0.020822
1411.20	0.99	0.020815
1411.40	0.98	0.020808
1411.60	0.98	0.020801
1411.80	0.98	0.020794
1412.00	0.98	0.020787
1412.20	0.98	0.020780
1412.40	0.98	0.020773
1412.60	0.98	0.020766
1412.80	0.98	0.020759
1413.00	0.98	0.020752
1413.20	0.98	0.020745
1413.40	0.98	0.020738
1413.60	0.98	0.020732
1413.80	0.98	0.020725
1414.00	0.98	0.020718
1414.20	0.98	0.020711
1414.40	0.97	0.020704
1414.60	0.97	0.020697
1414.80	0.97	0.020690
1415.00	0.97	0.020684
1415.20	0.97	0.020677
1415.40	0.97	0.020670
1415.60	0.97	0.020663
1415.80	0.97	0.020656
1416.00	0.97	0.020650
1416.20	0.97	0.020643
1416.40	0.97	0.020636
1416.60	0.97	0.020630
1416.80	0.97	0.020623
1417.00	0.97	0.020616
1417.20	0.97	0.020609
1417.40	0.97	0.020603
1417.60	0.96	0.020596
1417.80	0.96	0.020589
1418.00	0.96	0.020583
1418.20	0.96	0.020576
1418.40	0.96	0.020569
1418.60	0.96	0.020563
1418.80	0.96	0.020556
1419.00	0.96	0.020549
1419.20	0.96	0.020543
1419.40	0.96	0.020536
1419.60	0.96	0.020530
1419.80	0.96	0.020523
1420.00	0.96	0.020517
1420.20	0.96	0.020510
1420.40	0.96	0.020503
1420.60	0.96	0.020497
1420.80	0.96	0.020490
1421.00	0.95	0.020484
1421.20	0.95	0.020477
1421.40	0.95	0.020471
1421.60	0.95	0.020464
1421.80	0.95	0.020458
1422.00	0.95	0.020451
1422.20	0.95	0.020445
1422.40	0.95	0.020438
1422.60	0.95	0.020432
1422.80	0.95	0.020426
1423.00	0.95	0.020419

1423.20	0.95	0.020413
1423.40	0.95	0.020406
1423.60	0.95	0.020400
1423.80	0.95	0.020394
1424.00	0.95	0.020387
1424.20	0.94	0.020381
1424.40	0.94	0.020374
1424.60	0.94	0.020368
1424.80	0.94	0.020362
1425.00	0.94	0.020355
1425.20	0.94	0.020349
1425.40	0.94	0.020343
1425.60	0.94	0.020336
1425.80	0.94	0.020330
1426.00	0.94	0.020324
1426.20	0.94	0.020318
1426.40	0.94	0.020311
1426.60	0.94	0.020305
1426.80	0.94	0.020299
1427.00	0.94	0.020293
1427.20	0.94	0.020286
1427.40	0.94	0.020280
1427.60	0.94	0.020274
1427.80	0.93	0.020268
1428.00	0.93	0.020262
1428.20	0.93	0.020255
1428.40	0.93	0.020249
1428.60	0.93	0.020243
1428.80	0.93	0.020237
1429.00	0.93	0.020231
1429.20	0.93	0.020225
1429.40	0.93	0.020218
1429.60	0.93	0.020212
1429.80	0.93	0.020206
1430.00	0.93	0.020200
1430.20	0.93	0.020194
1430.40	0.93	0.020188
1430.60	0.93	0.020182
1430.80	0.93	0.020176
1431.00	0.93	0.020170
1431.20	0.92	0.020164
1431.40	0.92	0.020157
1431.60	0.92	0.020151
1431.80	0.92	0.020145
1432.00	0.92	0.020139
1432.20	0.92	0.020133
1432.40	0.92	0.020127
1432.60	0.92	0.020121
1432.80	0.92	0.020115
1433.00	0.92	0.020109
1433.20	0.92	0.020103
1433.40	0.92	0.020097
1433.60	0.92	0.020091
1433.80	0.92	0.020086
1434.00	0.92	0.020080
1434.20	0.92	0.020074
1434.40	0.92	0.020068
1434.60	0.92	0.020062
1434.80	0.91	0.020056
1435.00	0.91	0.020050
1435.20	0.91	0.020044
1435.40	0.91	0.020038
1435.60	0.91	0.020032
1435.80	0.91	0.020026
1436.00	0.91	0.020021
1436.20	0.91	0.020015

1436.40	0.91	0.020009
1436.60	0.91	0.020003
1436.80	0.91	0.019997
1437.00	0.91	0.019991
1437.20	0.91	0.019986
1437.40	0.91	0.019980
1437.60	0.91	0.019974
1437.80	0.91	0.019968
1438.00	0.91	0.019962
1438.20	0.91	0.019957
1438.40	0.91	0.019951
1438.60	0.90	0.019945
1438.80	0.90	0.019939
1439.00	0.90	0.019934
1439.20	0.90	0.019928
1439.40	0.90	0.019922
1439.60	0.90	0.019916
1439.80	0.90	0.019911
1440.00	0.90	0.019905
1440.20	0.90	0.019891
1440.40	0.90	0.019870
1440.60	0.90	0.019842
1440.80	0.89	0.019810
1441.00	0.89	0.019774
1441.20	0.89	0.019735
1441.40	0.88	0.019691
1441.60	0.88	0.019645
1441.80	0.87	0.019595
1442.00	0.87	0.019541
1442.20	0.86	0.019484
1442.40	0.86	0.019424
1442.60	0.85	0.019361
1442.80	0.85	0.019295
1443.00	0.84	0.019226
1443.20	0.83	0.019154
1443.40	0.83	0.019079
1443.60	0.82	0.019002
1443.80	0.81	0.018922
1444.00	0.81	0.018839
1444.20	0.80	0.018754
1444.40	0.79	0.018666
1444.60	0.78	0.018576
1444.80	0.77	0.018484
1445.00	0.76	0.018389
1445.20	0.76	0.018292
1445.40	0.75	0.018193
1445.60	0.74	0.018092
1445.80	0.73	0.017989
1446.00	0.72	0.017884
1446.20	0.71	0.017776
1446.40	0.70	0.017667
1446.60	0.69	0.017557
1446.80	0.68	0.017444
1447.00	0.67	0.017329
1447.20	0.66	0.017213
1447.40	0.65	0.017096
1447.60	0.63	0.016976
1447.80	0.62	0.016855
1448.00	0.61	0.016733
1448.20	0.60	0.016609
1448.40	0.59	0.016483
1448.60	0.58	0.016357
1448.80	0.57	0.016228
1449.00	0.55	0.016099
1449.20	0.54	0.015968
1449.40	0.53	0.015836

1449.60	0.52	0.015702
1449.80	0.51	0.015568
1450.00	0.49	0.015432
1450.20	0.48	0.015300
1450.40	0.47	0.015171
1450.60	0.46	0.015045
1450.80	0.44	0.014922
1451.00	0.43	0.014803
1451.20	0.42	0.014686
1451.40	0.41	0.014573
1451.60	0.40	0.014462
1451.80	0.40	0.014353
1452.00	0.39	0.014245
1452.20	0.39	0.014137
1452.40	0.39	0.014031
1452.60	0.38	0.013925
1452.80	0.38	0.013821
1453.00	0.38	0.013718
1453.20	0.37	0.013615
1453.40	0.37	0.013514
1453.60	0.37	0.013413
1453.80	0.36	0.013313
1454.00	0.36	0.013215
1454.20	0.36	0.013117
1454.40	0.35	0.013020
1454.60	0.35	0.012924
1454.80	0.35	0.012829
1455.00	0.34	0.012734
1455.20	0.34	0.012641
1455.40	0.34	0.012548
1455.60	0.33	0.012457
1455.80	0.33	0.012366
1456.00	0.33	0.012276
1456.20	0.32	0.012187
1456.40	0.32	0.012098
1456.60	0.32	0.012011
1456.80	0.31	0.011924
1457.00	0.31	0.011838
1457.20	0.31	0.011753
1457.40	0.31	0.011669
1457.60	0.30	0.011585
1457.80	0.30	0.011502
1458.00	0.30	0.011420
1458.20	0.30	0.011339
1458.40	0.29	0.011259
1458.60	0.29	0.011179
1458.80	0.29	0.011100
1459.00	0.28	0.011022
1459.20	0.28	0.010944
1459.40	0.28	0.010867
1459.60	0.28	0.010791
1459.80	0.27	0.010715
1460.00	0.27	0.010641
1460.20	0.27	0.010567
1460.40	0.27	0.010493
1460.60	0.26	0.010421
1460.80	0.26	0.010349
1461.00	0.26	0.010277
1461.20	0.26	0.010206
1461.40	0.25	0.010136
1461.60	0.25	0.010067
1461.80	0.25	0.009998
1462.00	0.25	0.009930
1462.20	0.25	0.009863
1462.40	0.24	0.009796
1462.60	0.24	0.009729

1462.80	0.24	0.009664
1463.00	0.24	0.009599
1463.20	0.23	0.009534
1463.40	0.23	0.009470
1463.60	0.23	0.009407
1463.80	0.23	0.009344
1464.00	0.23	0.009282
1464.20	0.22	0.009221
1464.40	0.22	0.009160
1464.60	0.22	0.009099
1464.80	0.22	0.009040
1465.00	0.22	0.008980
1465.20	0.21	0.008922
1465.40	0.21	0.008863
1465.60	0.21	0.008806
1465.80	0.21	0.008749
1466.00	0.21	0.008692
1466.20	0.20	0.008636
1466.40	0.20	0.008580
1466.60	0.20	0.008525
1466.80	0.20	0.008471
1467.00	0.20	0.008417
1467.20	0.19	0.008363
1467.40	0.19	0.008310
1467.60	0.19	0.008258
1467.80	0.19	0.008206
1468.00	0.19	0.008154
1468.20	0.19	0.008103
1468.40	0.18	0.008052
1468.60	0.18	0.008002
1468.80	0.18	0.007952
1469.00	0.18	0.007903
1469.20	0.18	0.007854
1469.40	0.18	0.007806
1469.60	0.17	0.007758
1469.80	0.17	0.007711
1470.00	0.17	0.007664
1470.20	0.17	0.007617
1470.40	0.17	0.007571
1470.60	0.17	0.007525
1470.80	0.16	0.007480
1471.00	0.16	0.007435
1471.20	0.16	0.007390
1471.40	0.16	0.007346
1471.60	0.16	0.007303
1471.80	0.16	0.007259
1472.00	0.16	0.007217
1472.20	0.15	0.007174
1472.40	0.15	0.007132
1472.60	0.15	0.007090
1472.80	0.15	0.007049
1473.00	0.15	0.007008
1473.20	0.15	0.006968
1473.40	0.15	0.006928
1473.60	0.14	0.006888
1473.80	0.14	0.006848
1474.00	0.14	0.006809
1474.20	0.14	0.006771
1474.40	0.14	0.006732
1474.60	0.14	0.006694
1474.80	0.14	0.006657
1475.00	0.14	0.006619
1475.20	0.13	0.006582
1475.40	0.13	0.006546
1475.60	0.13	0.006510
1475.80	0.13	0.006474

1476.00	0.13	0.006438
1476.20	0.13	0.006403
1476.40	0.13	0.006368
1476.60	0.13	0.006333
1476.80	0.12	0.006299
1477.00	0.12	0.006265
1477.20	0.12	0.006231
1477.40	0.12	0.006198
1477.60	0.12	0.006165
1477.80	0.12	0.006132
1478.00	0.12	0.006100
1478.20	0.12	0.006067
1478.40	0.12	0.006036
1478.60	0.11	0.006004
1478.80	0.11	0.005973
1479.00	0.11	0.005942
1479.20	0.11	0.005911
1479.40	0.11	0.005881
1479.60	0.11	0.005851
1479.80	0.11	0.005821
1480.00	0.11	0.005791
1480.20	0.11	0.005762
1480.40	0.11	0.005733
1480.60	0.10	0.005704
1480.80	0.10	0.005676
1481.00	0.10	0.005647
1481.20	0.10	0.005619
1481.40	0.10	0.005592
1481.60	0.10	0.005564
1481.80	0.10	0.005537
1482.00	0.10	0.005510
1482.20	0.10	0.005483
1482.40	0.10	0.005457
1482.60	0.10	0.005431
1482.80	0.09	0.005405
1483.00	0.09	0.005379
1483.20	0.09	0.005354
1483.40	0.09	0.005328
1483.60	0.09	0.005303
1483.80	0.09	0.005278
1484.00	0.09	0.005254
1484.20	0.09	0.005230
1484.40	0.09	0.005205
1484.60	0.09	0.005182
1484.80	0.09	0.005158
1485.00	0.09	0.005134
1485.20	0.08	0.005111
1485.40	0.08	0.005088
1485.60	0.08	0.005065
1485.80	0.08	0.005043
1486.00	0.08	0.005020
1486.20	0.08	0.004998
1486.40	0.08	0.004976
1486.60	0.08	0.004955
1486.80	0.08	0.004933
1487.00	0.08	0.004912
1487.20	0.08	0.004890
1487.40	0.08	0.004869
1487.60	0.08	0.004849
1487.80	0.07	0.004828
1488.00	0.07	0.004808
1488.20	0.07	0.004787
1488.40	0.07	0.004767
1488.60	0.07	0.004748
1488.80	0.07	0.004728
1489.00	0.07	0.004708

1489.20	0.07	0.004689
1489.40	0.07	0.004670
1489.60	0.07	0.004651
1489.80	0.07	0.004632
1490.00	0.07	0.004614
1490.20	0.07	0.004595
1490.40	0.07	0.004577
1490.60	0.07	0.004559
1490.80	0.07	0.004541
1491.00	0.06	0.004523
1491.20	0.06	0.004506
1491.40	0.06	0.004488
1491.60	0.06	0.004471
1491.80	0.06	0.004454
1492.00	0.06	0.004437
1492.20	0.06	0.004420
1492.40	0.06	0.004403
1492.60	0.06	0.004387
1492.80	0.06	0.004371
1493.00	0.06	0.004354
1493.20	0.06	0.004338
1493.40	0.06	0.004323
1493.60	0.06	0.004307
1493.80	0.06	0.004291
1494.00	0.06	0.004276
1494.20	0.06	0.004260
1494.40	0.06	0.004245
1494.60	0.05	0.004230
1494.80	0.05	0.004215
1495.00	0.05	0.004201
1495.20	0.05	0.004186
1495.40	0.05	0.004172
1495.60	0.05	0.004157
1495.80	0.05	0.004143
1496.00	0.05	0.004129
1496.20	0.05	0.004115
1496.40	0.05	0.004101
1496.60	0.05	0.004087
1496.80	0.05	0.004074
1497.00	0.05	0.004060
1497.20	0.05	0.004047
1497.40	0.05	0.004034
1497.60	0.05	0.004021
1497.80	0.05	0.004008
1498.00	0.05	0.003995
1498.20	0.05	0.003982
1498.40	0.05	0.003970
1498.60	0.05	0.003957
1498.80	0.04	0.003945
1499.00	0.04	0.003933
1499.20	0.04	0.003921
1499.40	0.04	0.003909
1499.60	0.04	0.003897
1499.80	0.04	0.003885
1500.00	0.04	0.003873
1500.20	0.04	0.003862
1500.40	0.04	0.003850
1500.60	0.04	0.003839
1500.80	0.04	0.003827
1501.00	0.04	0.003816
1501.20	0.04	0.003805
1501.40	0.04	0.003794
1501.60	0.04	0.003783
1501.80	0.04	0.003773
1502.00	0.04	0.003762
1502.20	0.04	0.003751

1502.40	0.04	0.003741
1502.60	0.04	0.003731
1502.80	0.04	0.003720
1503.00	0.04	0.003710
1503.20	0.04	0.003700
1503.40	0.04	0.003690
1503.60	0.04	0.003680
1503.80	0.04	0.003670
1504.00	0.04	0.003661
1504.20	0.03	0.003651
1504.40	0.03	0.003641
1504.60	0.03	0.003632
1504.80	0.03	0.003623
1505.00	0.03	0.003613
1505.20	0.03	0.003604
1505.40	0.03	0.003595
1505.60	0.03	0.003586
1505.80	0.03	0.003577
1506.00	0.03	0.003568
1506.20	0.03	0.003559
1506.40	0.03	0.003551
1506.60	0.03	0.003542
1506.80	0.03	0.003534
1507.00	0.03	0.003525
1507.20	0.03	0.003517
1507.40	0.03	0.003509
1507.60	0.03	0.003500
1507.80	0.03	0.003492
1508.00	0.03	0.003484
1508.20	0.03	0.003476
1508.40	0.03	0.003468
1508.60	0.03	0.003460
1508.80	0.03	0.003453
1509.00	0.03	0.003445
1509.20	0.03	0.003437
1509.40	0.03	0.003430
1509.60	0.03	0.003422
1509.80	0.03	0.003415
1510.00	0.03	0.003407
1510.20	0.03	0.003400
1510.40	0.03	0.003393
1510.60	0.03	0.003386
1510.80	0.03	0.003379
1511.00	0.03	0.003372
1511.20	0.03	0.003365
1511.40	0.03	0.003358
1511.60	0.02	0.003351
1511.80	0.02	0.003344
1512.00	0.02	0.003337
1512.20	0.02	0.003331
1512.40	0.02	0.003324
1512.60	0.02	0.003318
1512.80	0.02	0.003311
1513.00	0.02	0.003305
1513.20	0.02	0.003299

Appendix 8

FEMA



NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 1880F

FIRM

FLOOD INSURANCE RATE MAP

LOS ANGELES COUNTY, CALIFORNIA

AND INCORPORATED AREAS

PANEL 1880 OF 2350

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
LOS ANGELES COUNTY	065043	1880	F
DIAMOND BAR, CITY OF	060741	1880	F
INDUSTRY, CITY OF	065035	1880	F

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

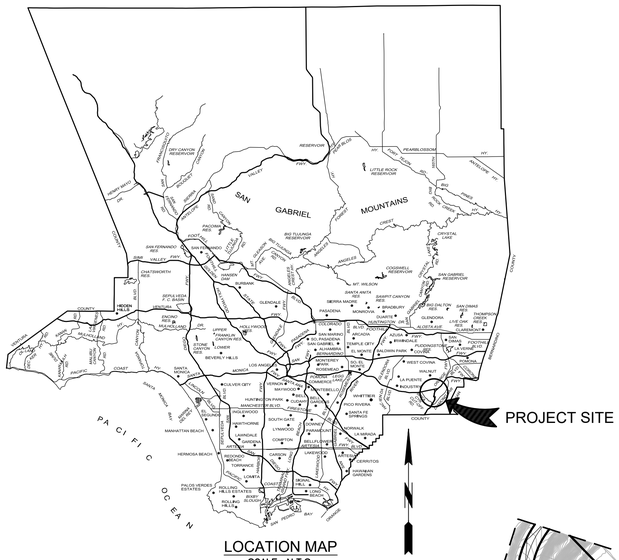
MAP NUMBER
06037C1880F

EFFECTIVE DATE
SEPTEMBER 26, 2008

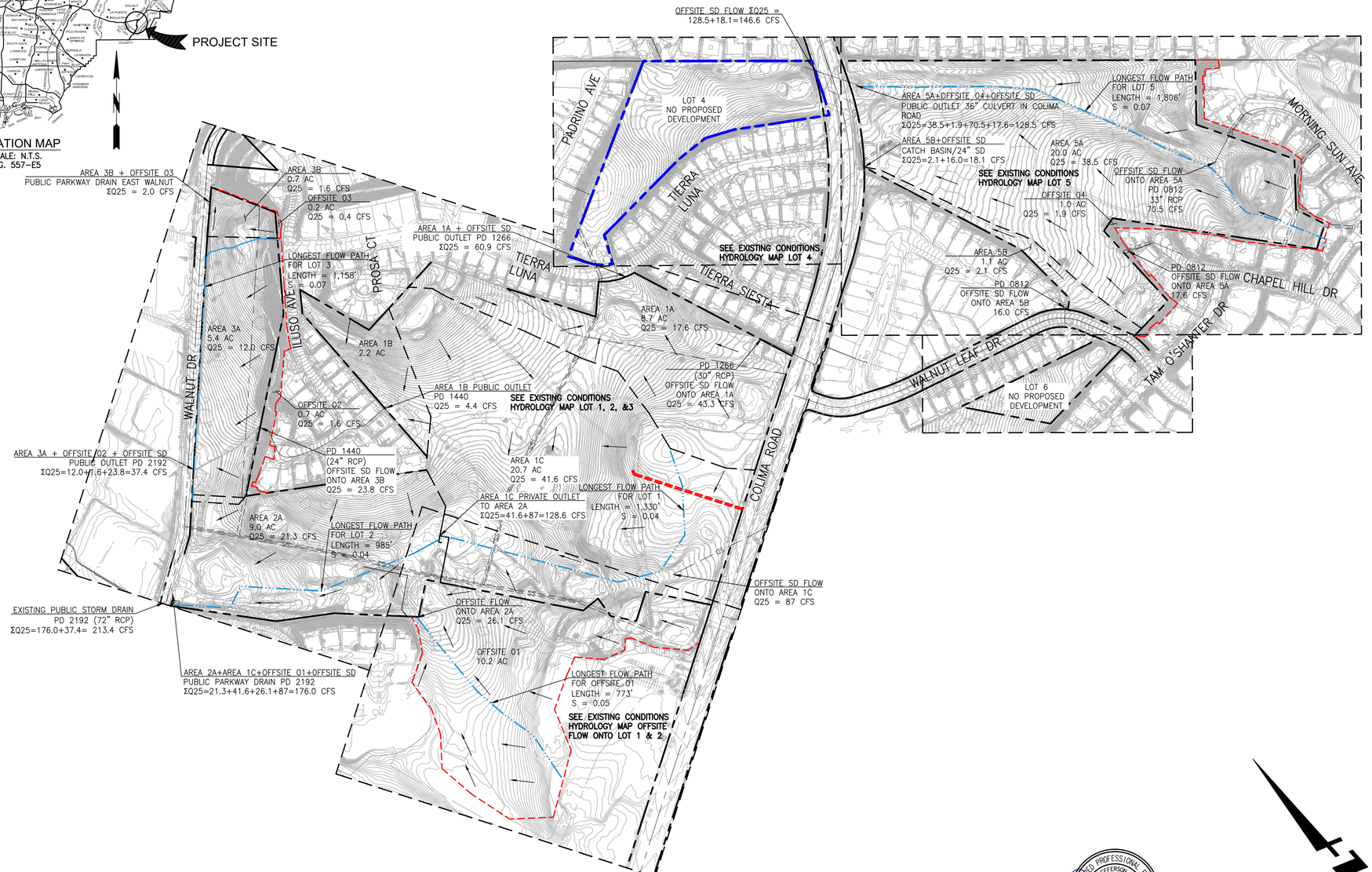
Federal Emergency Management Agency

Appendix 9

Existing Condition Hydrology Maps



LOCATION MAP
SCALE: N.T.S.
T.G. 557–E5



LEGEND

———	PROPERTY LINE / RIGHT–OF–WAY–LINE
– – –	DRAINAGE SUBAREAS BOUNDARY
———	LONGEST FLOW LINE
CFS	CUBIC FEET PER SECOND
S=0.015	FLOW PATH SLOPE
←	SHEET FLOW DIRECTION
AC	ACRES
SD	EXISTING STORM DRAIN
PD	PUBLIC DRAIN
– – –	OFFSITE DRAINAGE AREA

PLANNING AREA	AREA (ACRES)	PERCENT IMPERVIOUS
1	31.6	3%
2	9.5	3%
3	6.1	3%
5	21.1	3%
OFFSITE 01 (16C)	10.2	3%
OFFSITE 02	0.7	0%
OFFSITE 03	0.2	0%
OFFSITE 04	1.0	0%

SUB AREA	Q25 (CFS)	DISCHARGE POINT
1A	17.6	PD 1266
1B	4.4	PD 1440
1C	41.6	AREA 2A
2A	21.3	PD 2192
OFFSITE 01	26.1	AREA 2A
OFFSITE 02	1.6	AREA 3A
3A	12.0	PD 2192
OFFSITE 03	0.4	AREA 3B
3B	1.6	EAST WALNUT
OFFSITE 04	1.9	AREA 5A
5A	38.5	PD 506
5B	2.1	PD 506

50–YEAR RAINFALL	6.5"
SOIL TYPE	002
DPA ZONE	7
BURN FACTOR	N/A
BULKING FACTOR	N/A
85TH PERCENTILE	1.0"
PROJECT DESIGN STORM	25–YR

NOTES:
1. NOT WITHIN COUNTY ADOPTED FLOODWAY.
2. NOT WITHIN FEMA FLOOD ZONE "A".

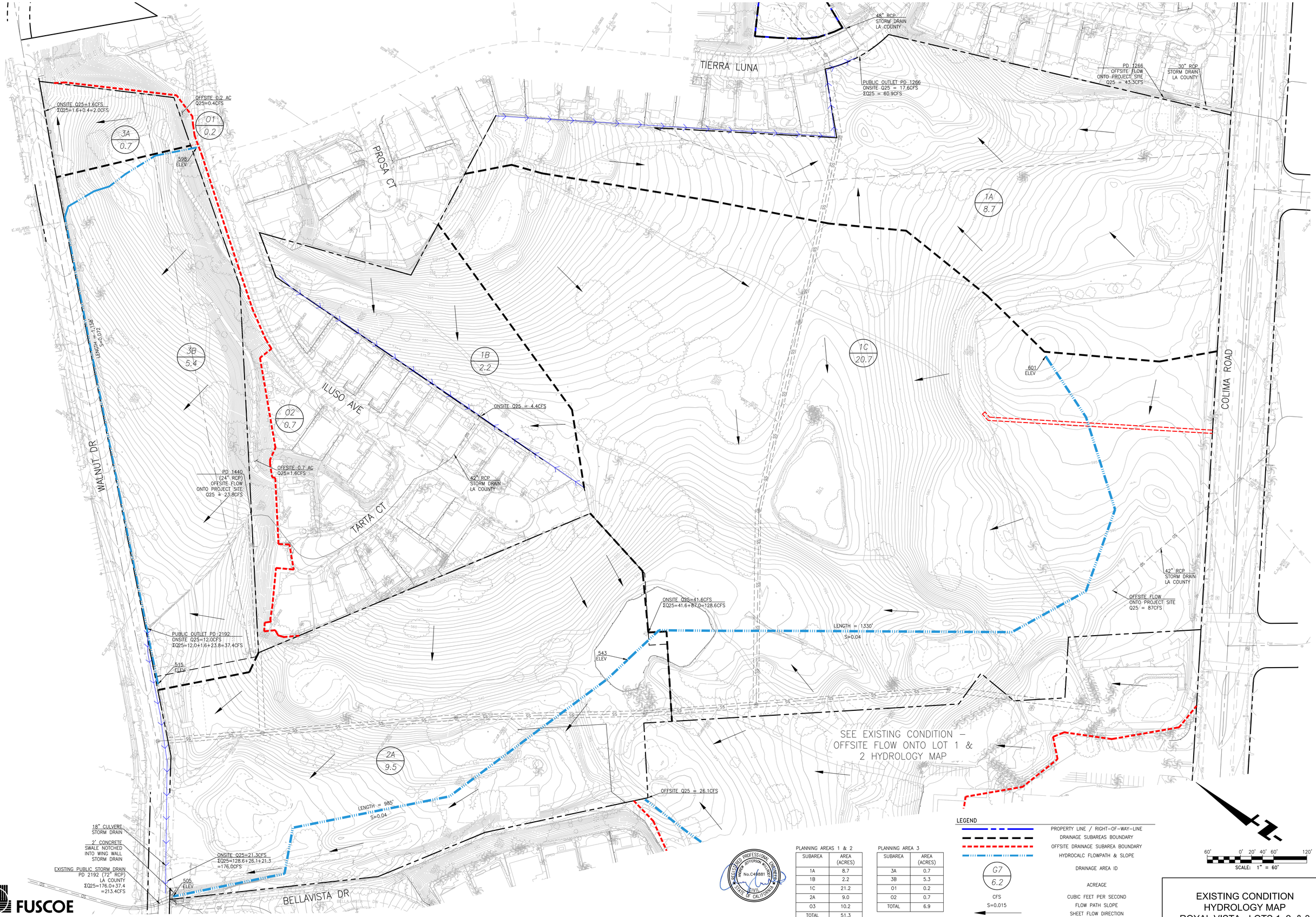
FUSCOE ENGINEERING
16795 Von Karman, Suite 100
Irvine, California 92606
tel 949.474.1960 ◦ fax 949.474.5315
www.fuscoe.com

REGISTERED PROFESSIONAL ENGINEER
MORGAN JEFFERSON WITHROW
No.C49881
CIVIL
STATE OF CALIFORNIA

200' 0' 100' 200' 400'
SCALE: 1" = 200'

EXISTING CONDITION HYDROLOGY MAP ROYAL VISTA OVERALL TENTATIVE TRACT NO. 83534.

C:\PROJECTS\49120\Civil\EXHIBITS\49C-EXHIBIT - EXISTING CONDITION HYDROLOGY MAP-OVERALL.dwg (03-30-2023 9:29:39AM) Plotted by: rpolan



PLANNING AREAS 1 & 2	
SUBAREA	AREA (ACRES)
1A	8.7
1B	2.2
1C	21.2
2A	9.0
O3	10.2
TOTAL	51.3

PLANNING AREA 3	
SUBAREA	AREA (ACRES)
3A	0.7
3B	5.3
O1	0.2
O2	0.7
TOTAL	6.9

*PLANNING AREA 2 AND 3 TO HAVE DEDICATIONS PER PROPOSED CONDITIONS HYDROLOGY MAP

NOTES:
1. **2.24CFS/ACRE USED FOR LOT 2 AND LOT 3.**

REGISTERED PROFESSIONAL ENGINEER — JASON JEFFERSON WALKER — No.C49881 — CIVIL — STATE OF CALIFORNIA

LEGEND

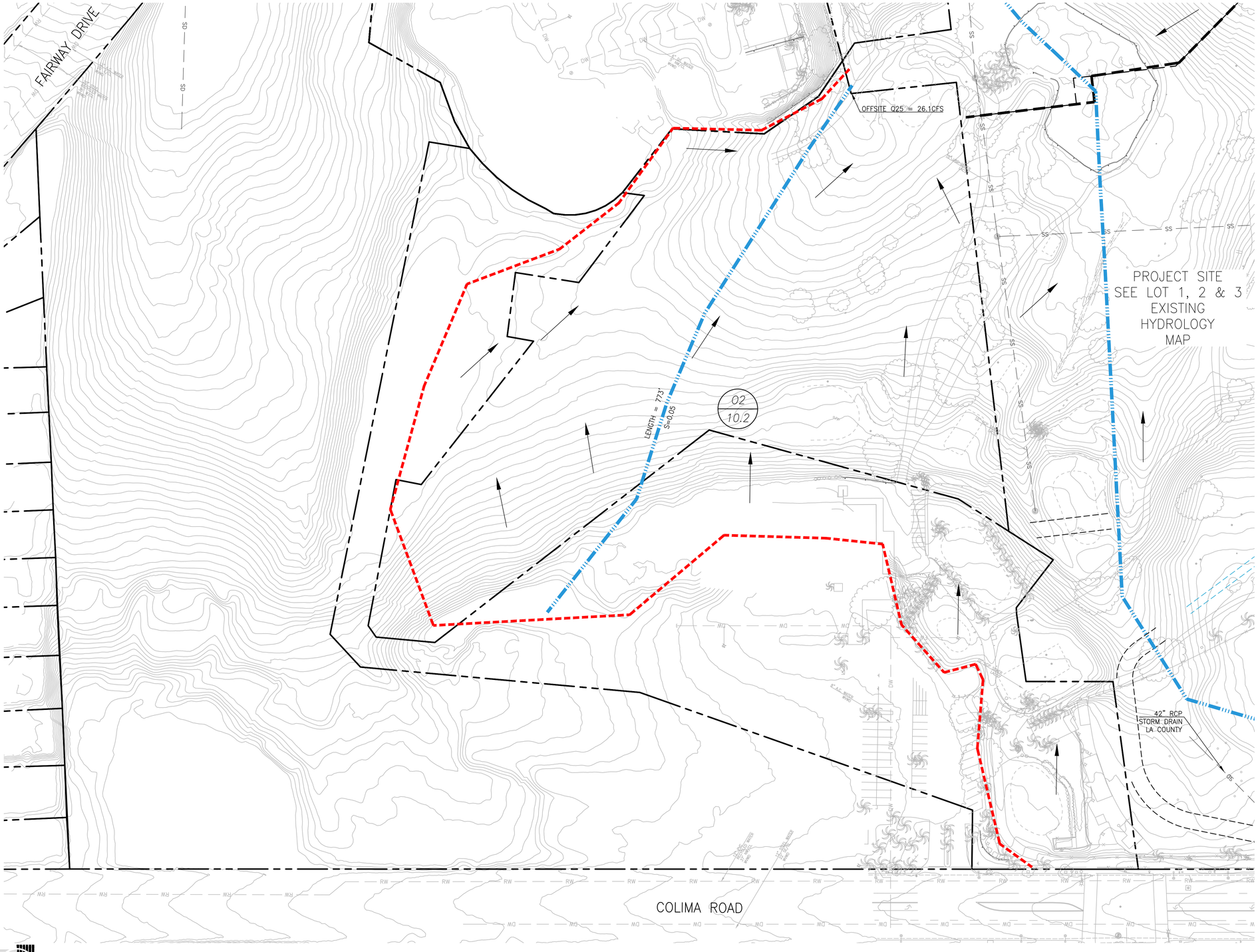
	PROPERTY LINE / RIGHT-OF-WAY-LINE
	DRAINAGE SUBAREAS BOUNDARY
	OFFSITE DRAINAGE SUBAREA BOUNDARY
	HYDROCALC FLOWPATH & SLOPE
G7 / 6.2	DRAINAGE AREA ID
	ACREAGE
CFS	CUBIC FEET PER SECOND
S=0.015	FLOW PATH SLOPE
	SHEET FLOW DIRECTION
ELEV	ELEVATION
RCP	REINFORCED CONCRETE PIPE

60' 0' 20' 40' 60' 120'
SCALE: 1" = 60'

EXISTING CONDITION HYDROLOGY MAP
ROYAL VISTA - LOTS 1, 2, & 3
TENTATIVE TRACT NO. 83534

FUSCOE ENGINEERING
16795 Von Karman, Suite 100
Irvine, California 92606
tel 949.474.1960 ◦ fax 949.474.5315
www.fuscoe.com

I:\PROJECTS\18525\CAD\EXHIBITS\18525_EXHIBIT - EXISTING CONDITION HYDROLOGY MAP-LOT 1&2.dwg, 03-30-2023 3:29:51 PM, Plotted by: kjordan



LEGEND

	PROPERTY LINE / RIGHT-OF-WAY-LINE
	DRAINAGE SUBAREAS BOUNDARY
	OFFSITE DRAINAGE SUBAREA
G7 / 6.2	DRAINAGE AREA ID / ACREAGE
CFS	CUBIC FEET PER SECOND
S=0.015	FLOW PATH SLOPE
	SHEET FLOW DIRECTION
ELEV	ELEVATION
RCP	REINFORCED CONCRETE PIPE
	HYDROCALC FLOWPATH & SLOPE

SUBAREA	AREA (ACRES)
02	10.2
TOTAL	10.2

NOTES:
1. 2.24CFS/ACRE USED FOR LOT 2 AND LOT 3.

60' 0' 20' 40' 60' 120'
SCALE: 1" = 60'

EXISTING CONDITION HYDROLOGY MAP ROYAL VISTA - OFFSITE FLOW ONTO LOT 1 & 2

REGISTERED PROFESSIONAL ENGINEER
JEFFERSON WILCOX
No.C49881
CIVIL
STATE OF CALIFORNIA

FUSCOE ENGINEERING
16795 Von Karman, Suite 100
Irvine, California 92606
tel 949.474.1960 ◦ fax 949.474.5315
www.fuscoe.com

C:\PROJECTS\1602\DOX\EXHIBITS\1602-50EXH - EXISTING CONDITION HYDROLOGY MAP-LOT 1&2&3&5.DWG (03-30-2023 9:30:19AM) Plotted by: jjordan

LEGEND

PROPERTY LINE / RIGHT-OF-WAY-LINE
DRAINAGE SUBAREAS BOUNDARY
LONGEST FLOW LINE
OFFSITE DRAINAGE SUBAREA BOUNDARY

G7 / 6.2 — DRAINAGE AREA ID / ACREAGE

CFS — CUBIC FEET PER SECOND
S=0.015 — FLOW PATH SLOPE
SHEET FLOW DIRECTION
ELEV — ELEVATION
RCP — REINFORCED CONCRETE PIPE

NOTES:
1. **1.92 CFS/ACRE USED.**

SUBAREA	AREA (ACRES)
5A	20.0
5B	1.1
O4	1.0
TOTAL	22.1

ΣQ25=128.5+18.1=146.6CFS

EXISTING 36" CONCRETE CULVERT

ONSITE Q25 = 38.5CFS
ΣQ25=38.5+1.9+70.5+17.6=128.5CFS

581 ELEV

LENGTH = 1806'
S=0.068

APPROXIMATE ALIGNMENT OF EXISTING 24" STORM DRAIN FROM EXISTING CATCH BASIN TO EXISTING 36" CULVERT

5A / 20.0

33" RCP STORM DRAIN LA COUNTY

MORNING SUN AVE

OFFSITE FLOW ONTO PROJECT SITE PD 0812 33" RCP Q25 = 70.5CFS

04 / 1.0

ONSITE Q25 = 2.1CFS
ΣQ25 = 18.1CFS

EXISTING CATCH BASIN

602 ELEV

COLIMA ROAD

LEANNE TER

OFFSITE 1.0 AC Q25=1.9CFS

704 ELEV

PD 0812 18" RCP STORM DRAIN LA COUNTY

OFFSITE FLOW ONTO PROJECT SITE Q25 = 17.6CFS

CHAPEL HILL DR

5B / 1.1

PD 0812 OFFSITE FLOW ONTO PROJECT SITE Q25 = 16.0CFS

WALNUT LEAF DR

660 ELEV

18" RCP STORM DRAIN LA COUNTY

REGISTERED PROFESSIONAL ENGINEER — JAMES JEFFERSON WILCOX — No.C49881 — CIVIL — STATE OF CALIFORNIA

60' 0' 20' 40' 60' 120'
SCALE: 1" = 60'

FUSCOE ENGINEERING
600 Wilshire Blvd., Suite 1470
Los Angeles, California 90017
tel 213.988.8802 ◦ fax 213.988.8803
www.fuscoe.com

EXISTING CONDITION HYDROLOGY MAP
ROYAL VISTA - LOT 5
TENTATIVE TRACT NO.83534

P:\PROJECTS\16210\HYDRO\16210-EXHA - EXISTING CONDITION HYDROLOGY MAP - LOT 1&2&3&5.DWG (03-30-2023 9:50:23AM) Plotted by: jordan

Appendix 10

Proposed Condition Hydrology

&

Concept Storm Drain Maps



LOCATION MAP
SCALE: N.T.S.
T.G. 557-E5

CIVIL ENGINEER'S NOTE:

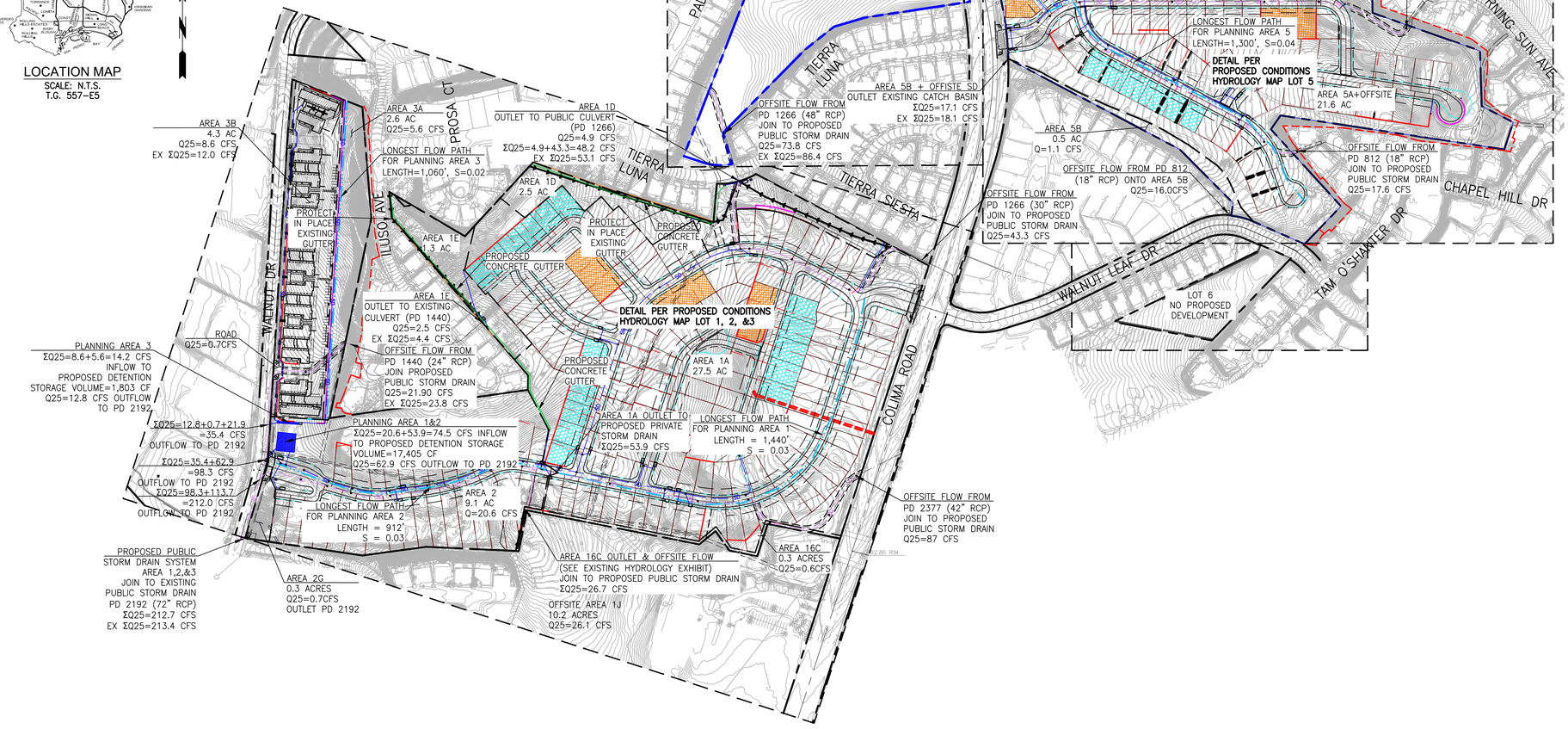
- ONSITE GUTTERS, ROADS, AND PRIVATE STORM DRAINS & DETENTION TANKS WILL BE MAINTAINED BY HOA. PD. STORM DRAIN EXTENSIONS WILL BE PUBLIC, WITHIN AN EASEMENT TO ALLOW FOR ACCESS BY PUBLIC AGENCY.

HATCH LEGEND

	DUPLEX
	TRIPLEX

LEGEND

	PROPERTY LINE / RIGHT-OF-WAY-LINE
	PROPOSED PRIVATE STORM DRAIN
	PROPOSED PUBLIC STORM DRAIN
	DRAINAGE SUBAREAS
	LONGEST FLOW LINE
	OFFSITE SHEET FLOW ONTO PROJECT SITE
	FLOW PATH
	EXISTING CONCRETE GUTTER
	PROPOSED CONCRETE GUTTER
RCP	REINFORCED CONCRETE PIPE
CFS	CUBIC FEET PER SECOND
PD	PUBLIC DRAIN
S	SLOPE
	PREVIOUSLY PROPOSED LOT LINE
	PREVIOUSLY PROPOSED STREET EASEMENT



PLANNING AREA	AREA (ACRES)	PERCENT IMPERVIOUS
1	31.6	35%
2	9.5	33%
3	6.1	35%
5	21.1	27%
OFFSITE 01 (16C)	10.2	0%
OFFSITE 02	0.7	0%
OFFSITE 03	0.2	0%
OFFSITE 04	1.0	0%

NAME	AREA (ACRES)	Q25 (CFS)	DISCHARGE POINT
1A	27.5	53.9	DETENTION 01
2	9.1	20.6	DETENTION 01
1D	2.5	4.9	PD 1266
1E	1.3	2.5	PD 1440
2G	0.3	0.7	PD 2192
1J	10.2	20.6	PD 2192
16C	0.3	0.6	PD 2192
3A	2.6	5.6	DETENTION 02
3B	4.3	8.6	DETENTION 02
5A	21.6	46.2	DETENTION 05
5B	0.5	1.1	CATCH BASIN
OFFSITE 02	0.7	1.6	AREA 3A
OFFSITE 03	0.2	0.4	AREA 3A
OFFSITE 04	1.0	1.9	AREA 5A

50-YEAR RAINFALL	6.5"
SOIL TYPE	002
DPA ZONE	7
BURN FACTOR	N/A
BULKING FACTOR	N/A
PROJECT DESIGN STORM	25-YEAR

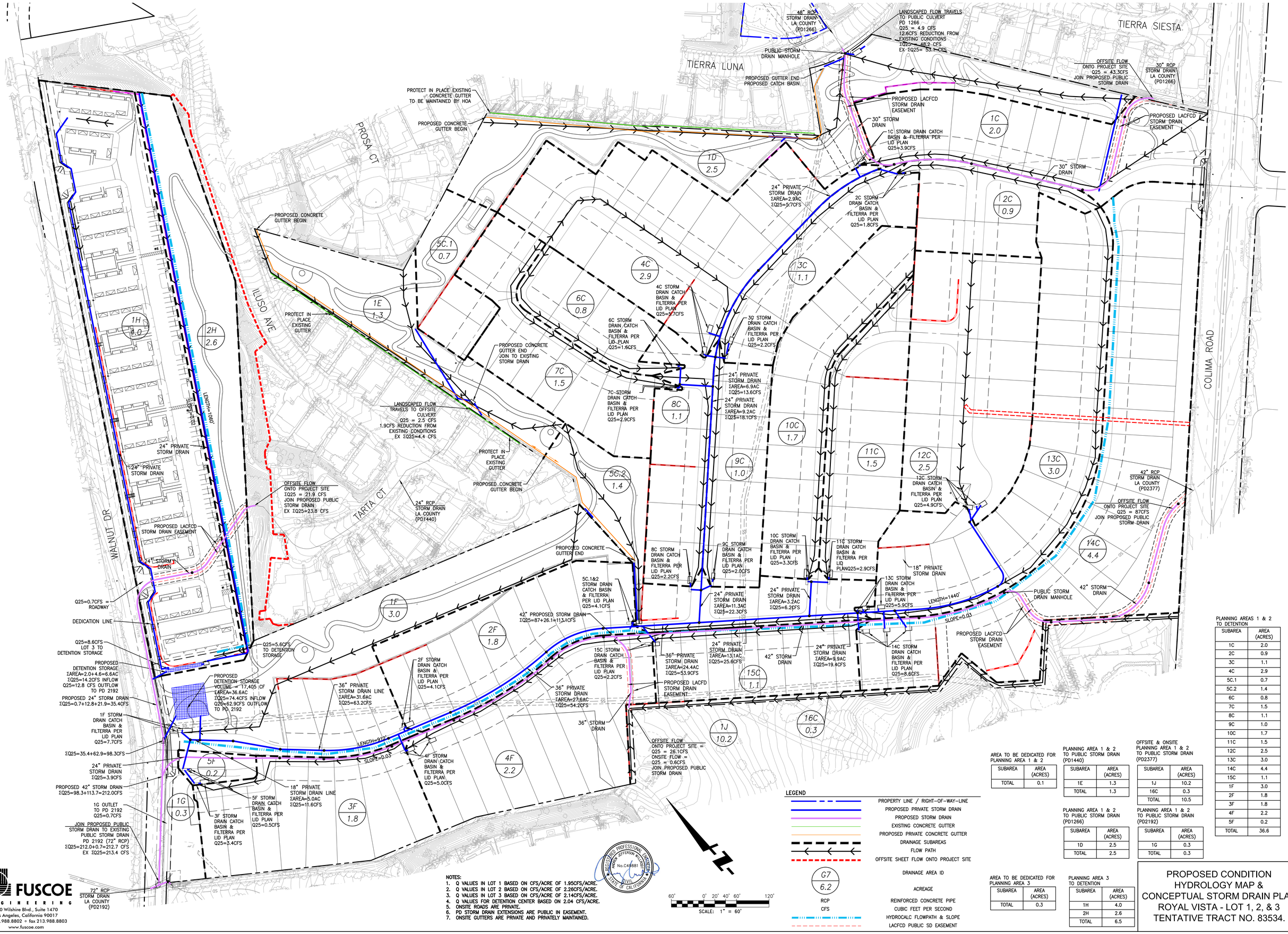
NOTES:
1. NOT WITHIN COUNTY ADOPTED FLOODWAY.
2. NOT WITHIN FEMA FLOODZONE "A".

FUSCOE ENGINEERING
600 Wilshire Blvd., Suite 1470
Los Angeles, California 90017
tel 213.988.8802 ◦ fax 213.988.8803
www.fuscoe.com

REGISTERED PROFESSIONAL ENGINEER
ANDREW JEFFERSON WILLARD
No.C49881
CIVIL
STATE OF CALIFORNIA

PROPOSED CONDITION
HYDROLOGY MAP &
CONCEPTUAL STORM DRAIN PLAN
ROYAL VISTA - OVERALL
TENTATIVE TRACT NO. 83534.

P:\PROJECTS\4010\04\CAD\RTS\4010-04HYA - OVERALL PROPOSED CONDITION HYDROLOGY MAP.DWG (03-30-2020 9:13:19AM) Plotted by: epalan



NOTES:
1. Q VALUES IN LOT 1 BASED ON CFS/ACRE OF 1.95CFS/ACRE.
2. Q VALUES IN LOT 2 BASED ON CFS/ACRE OF 2.26CFS/ACRE.
3. Q VALUES IN LOT 3 BASED ON CFS/ACRE OF 2.14CFS/ACRE.
4. Q VALUES FOR DETENTION CENTER BASED ON 2.04 CFS/ACRE.
5. ONSITE ROADS ARE PRIVATE.
6. PD STORM DRAIN EXTENSIONS ARE PUBLIC IN EASEMENT.
7. ONSITE GUTTERS ARE PRIVATE AND PRIVATELY MAINTAINED.

REGISTERED PROFESSIONAL ENGINEER ANDREW PETERSON WITTORP No.C49881 CIVIL STATE OF CALIFORNIA

FUSCOE ENGINEERING
600 Wilshire Blvd., Suite 1470
Los Angeles, California 90017
tel 213.988.8802 • fax 213.988.8803
www.fuscoe.com

AREA TO BE DEDICATED FOR PLANNING AREA 1 & 2

SUBAREA	AREA (ACRES)
TOTAL	0.1

AREA TO BE DEDICATED FOR PLANNING AREA 3

SUBAREA	AREA (ACRES)
TOTAL	0.3

PLANNING AREA 1 & 2 TO PUBLIC STORM DRAIN (PD1440)

SUBAREA	AREA (ACRES)
1E	1.3
TOTAL	1.3

PLANNING AREA 1 & 2 TO PUBLIC STORM DRAIN (PD1266)

SUBAREA	AREA (ACRES)
1D	2.5
TOTAL	2.5

OFFSITE & ONSITE PLANNING AREA 1 & 2 TO PUBLIC STORM DRAIN (PD2377)

SUBAREA	AREA (ACRES)
1J	10.2
16C	0.3
TOTAL	10.5

PLANNING AREA 1 & 2 TO PUBLIC STORM DRAIN (PD2192)

SUBAREA	AREA (ACRES)
1G	0.3
TOTAL	0.3

PLANNING AREA 3 TO DETENTION

SUBAREA	AREA (ACRES)
1H	4.0
2H	2.6
TOTAL	6.5

PLANNING AREAS 1 & 2 TO DETENTION

SUBAREA	AREA (ACRES)
1C	2.0
2C	0.9
3C	1.1
4C	2.9
5C.1	0.7
5C.2	1.4
6C	0.8
7C	1.5
8C	1.1
9C	1.0
10C	1.7
11C	1.5
12C	2.5
13C	3.0
14C	4.4
15C	1.1
1F	3.0
2F	1.8
3F	1.8
4F	2.2
5F	0.2
TOTAL	36.6

PROPOSED CONDITION HYDROLOGY MAP & CONCEPTUAL STORM DRAIN PLAN ROYAL VISTA - LOT 1, 2, & 3 TENTATIVE TRACT NO. 83534.

F:\PROJECTS\456\DWG\EXHIBITS\456-DRAIN - LOT 1-3 PROPOSED CONDITION HYDROLOGY MAP.DWG [01-30-2023 11:15AM] Plotted by: kjordan

LEGEND

- PROPERTY LINE / RIGHT-OF-WAY-LINE
- PROPOSED PRIVATE STORM DRAIN
- PROPOSED STORM DRAIN
- DRAINAGE SUBAREAS
- DIRECTION OF FLOW
- OFFSITE SHEET FLOW ONTO PROJECT SITE
- G7 / 6.2 — DRAINAGE AREA ID / ACREAGE
- RCP — REINFORCED CONCRETE PIPE
- CFS — CUBIC FEET PER SECOND
- HYDROCALC FLOWPATH & SLOPE
- LACFCD PUBLIC SD EASEMENT

AREA TO OFFSITE CATCH BASIN

SUBAREA	AREA (ACRES)
1B	0.5
TOTAL	0.5

AREA TO DETENTION

SUBAREA	AREA (ACRES)
1A	4.1
2A	2.7
3A	1.6
4A	1.1
5A	1.8
6A	2.1
7A	1.1
8A	1.5
9A	3.7
10A	1.9
TOTAL	21.6

ΣQ25=125.9+17.1=143.0 CFS
EX ΣQ25=146.6 CFS

PROPOSED DETENTION STORAGE VOLUME = 10,350 CF
Q25=46.2 CFS INFLOW
Q25=37.8 CFS OUTFLOW

EXISTING 36" CONCRETE CULVERT

PROPOSED LACFCD STORM DRAIN EASEMENT

OUTFLOW TO EXISTING 36" CULVERT
ΣQ25=88.1+37.8 =125.9 CFS
EX ΣQ25=128.5 CFS

24" STORM DRAIN
ΣAREA=21.6AC
ΣQ25=46.2CFS

PROPOSED 36" STORM DRAIN

24" STORM DRAIN
ΣAREA=16.0AC
ΣQ25=34.4CFS

PROPOSED 36" STORM DRAIN
ΣQ25=88.1CFS

24" PRIVATE STORM DRAIN
ΣAREA=3.9AC
ΣQ25=8.4CFS

5A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=3.9CFS

9A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=7.8CFS

APPROXIMATE ALIGNMENT OF EXISTING 24" STORM DRAIN FROM EXISTING CATCH BASIN TO EXISTING 36" CULVERT

ΣQ25=22.8CFS
7A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=2.4CFS

6A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=4.5CFS

PROPOSED LACFCD STORM DRAIN EASEMENT

33" STORM DRAIN

24" STORM DRAIN
ΣAREA=12.1AC
ΣQ25=26.0CFS

24" STORM DRAIN
ΣAREA=5.6AC
ΣQ25=11.8CFS

8A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=3.2CFS

10A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=4.0CFS

LANDSCAPED FLOW TRAVELS TO OFFSITE CATCH BASIN
Q25=1.1CFS
ΣQ25=1.1+16.0=17.1CFS
EX Q25=18.1 CFS

PROPOSED LACFCD STORM DRAIN EASEMENT

LENGTH=1300'
SLOPE=0.04

24" STORM DRAIN
ΣAREA=6.8AC
ΣQ25=14.6CFS

1A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=8.8CFS

2A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=5.8CFS

3A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=3.4CFS

PROPOSED 24" STORM DRAIN

24" STORM DRAIN
ΣAREA=9.5AC
ΣQ25=20.4CFS

24" STORM DRAIN
ΣAREA=2.7AC
ΣQ25=5.8CFS

4A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=2.4CFS

PROOSED 24" STORM DRAIN

33" RCP STORM DRAIN LA COUNTY (PD0812)

PROPOSED 33" STORM DRAIN

PROPOSED LACFCD STORM DRAIN EASEMENT

OFFSITE FLOW ONTO PROJECT SITE PD 0812 (33" RCP)
Q25 = 70.5CFS
JOIN PROPOSED PUBLIC STORM DRAIN

OFFSITE FLOW ONTO PROJECT SITE
Q25 = 17.6CFS
JOIN PROPOSED STORM DRAIN

18" RCP STORM DRAIN LA COUNTY (PD0812)

OFFSITE FLOW ONTO PROJECT SITE
Q25 = 16.0CFS

18" RCP STORM DRAIN LA COUNTY (PD0812)

9A 3.7 · 5A 1.8 · 6A 2.1 · 7A 1.1 · 8A 1.5 · 10A 1.9 · 1A 4.1 · 2A 2.7 · 3A 1.6 · 4A 1.1 · 1B 0.5

COLIMA ROAD · MORNING SUN AVE · CHAPEL HILL DR · WALNUT LEAF DR

NOTES:
1. Q VALUES IN LOT 5 BASED ON CFS/ACRE OF 2.14CFS/ACRE.

REGISTERED PROFESSIONAL ENGINEER · ANDREW JEFFERSON WILLARD · No.C49881 · CIVIL · STATE OF CALIFORNIA

60' 0' 20' 40' 60' 120'
SCALE: 1" = 60'

PROPOSED CONDITION HYDROLOGY MAP & CONCEPTUAL STORM DRAIN PLAN ROYAL VISTA - LOT 5 TENTATIVE TRACT NO. 83534.

FUSCOE ENGINEERING
600 Wilshire Blvd., Suite 1470
Los Angeles, California 90017
tel 213.988.8802 ◦ fax 213.988.8803
www.fuscoe.com

C:\PROJECTS\MDD\LOA\EXHIBITS\MDD-LOA04 - EXH 5 PROPOSED CONDITION HYDROLOGY MAP.DWG (03-30-2023 8:14:07AM) Plotted by: ajensen

Appendix 11

Preliminary Hydraulics Analysis

Worksheet for Circular Pipe-Existing 36-inch storm drain culvert in Colima Rd

Project Description	
Friction Method	Manning Formula
Solve For	Full Flow Capacity

Input Data	
Roughness Coefficient	0.013
Channel Slope	0.048 ft/ft
Normal Depth	3.00 ft
Diameter	36.0 in
Discharge	146.1 cfs

Results	
Discharge	146.1 cfs
Normal Depth	3.00 ft
Flow Area	7.1 ft²
Wetted Perimeter	9.4 ft
Hydraulic Radius	0.75 ft
Top Width	0.00 ft
Critical Depth	2.98 ft
Percent Full	100.0 %
Critical Slope	0.045 ft/ft
Velocity	20.67 ft/s
Velocity Head	6.64 ft
Specific Energy	9.64 ft
Froude Number	(N/A)
Maximum Discharge	157.2 cfs
Discharge Full	146.1 cfs
Slope Full	0.048 ft/ft
Flow Type	Undefined

GVF Input Data	
Downstream Depth	0.00 ft
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	N/A
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.0 %
Normal Depth Over Rise	100.0 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	3.00 ft
Critical Depth	2.98 ft
Channel Slope	0.048 ft/ft

Worksheet for Circular Pipe-Existing 36-inch storm drain culvert in Colima Rd

GVF Output Data	
Critical Slope	0.045 ft/ft

Worksheet for Circular Pipe-PD 812 Line E Extension from Chapel Hill Dr

Project Description	
Friction Method	Manning Formula
Solve For	Full Flow Capacity

Input Data	
Roughness Coefficient	0.013
Channel Slope	0.030 ft/ft
Normal Depth	2.00 ft
Diameter	24.0 in
Discharge	39.2 cfs

Results	
Discharge	39.2 cfs
Normal Depth	2.00 ft
Flow Area	3.1 ft²
Wetted Perimeter	6.3 ft
Hydraulic Radius	0.50 ft
Top Width	0.00 ft
Critical Depth	1.95 ft
Percent Full	100.0 %
Critical Slope	0.027 ft/ft
Velocity	12.47 ft/s
Velocity Head	2.42 ft
Specific Energy	4.42 ft
Froude Number	(N/A)
Maximum Discharge	42.1 cfs
Discharge Full	39.2 cfs
Slope Full	0.030 ft/ft
Flow Type	Undefined

GVF Input Data	
Downstream Depth	0.00 ft
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.00 ft
Profile Description	N/A
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.0 %
Normal Depth Over Rise	100.0 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	2.00 ft
Critical Depth	1.95 ft
Channel Slope	0.030 ft/ft

Worksheet for Circular Pipe-PD 812 Line E Extension from Chapel Hill Dr

GVF Output Data	
Critical Slope	0.027 ft/ft

Worksheet for Circular Pipe-PD 812 Line H Extension from Morning Sun Ave

Project Description	
Friction Method	Manning Formula
Solve For	Full Flow Capacity

Input Data	
Roughness Coefficient	0.013
Channel Slope	0.030 ft/ft
Normal Depth	33.0 in
Diameter	33.0 in
Discharge	91.6 cfs

Results	
Discharge	91.6 cfs
Normal Depth	33.0 in
Flow Area	5.9 ft²
Wetted Perimeter	8.6 ft
Hydraulic Radius	8.3 in
Top Width	0.00 ft
Critical Depth	32.3 in
Percent Full	100.0 %
Critical Slope	0.027 ft/ft
Velocity	15.42 ft/s
Velocity Head	3.70 ft
Specific Energy	6.45 ft
Froude Number	(N/A)
Maximum Discharge	98.5 cfs
Discharge Full	91.6 cfs
Slope Full	0.030 ft/ft
Flow Type	Undefined

GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.0 %
Normal Depth Over Rise	100.0 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	33.0 in
Critical Depth	32.3 in
Channel Slope	0.030 ft/ft

Worksheet for Circular Pipe-PD 812 Line H Extension from Morning Sun Ave

GVF Output Data	
Critical Slope	0.027 ft/ft

Worksheet for Circular Pipe-PD 1266 Line A Extension through Lot1

Project Description	
Friction Method	Manning Formula
Solve For	Full Flow Capacity

Input Data		
Roughness Coefficient	0.013	
Channel Slope	0.030	ft/ft
Normal Depth	42.0	in
Diameter	42.0	in
Discharge	174.3	cfs

Results		
Discharge	174.3	cfs
Normal Depth	42.0	in
Flow Area	9.6	ft²
Wetted Perimeter	11.0	ft
Hydraulic Radius	10.5	in
Top Width	0.00	ft
Critical Depth	41.2	in
Percent Full	100.0	%
Critical Slope	0.027	ft/ft
Velocity	18.11	ft/s
Velocity Head	5.10	ft
Specific Energy	8.60	ft
Froude Number	(N/A)	
Maximum Discharge	187.4	cfs
Discharge Full	174.3	cfs
Slope Full	0.030	ft/ft
Flow Type	Undefined	

GVF Input Data		
Downstream Depth	0.0	in
Length	0.0	ft
Number Of Steps	0	

GVF Output Data		
Upstream Depth	0.0	in
Profile Description	N/A	
Profile Headloss	0.00	ft
Average End Depth Over Rise	0.0	%
Normal Depth Over Rise	100.0	%
Downstream Velocity	Infinity	ft/s
Upstream Velocity	Infinity	ft/s
Normal Depth	42.0	in
Critical Depth	41.2	in
Channel Slope	0.030	ft/ft
Critical Slope	0.027	ft/ft

Worksheet for Circular Pipe-PD 1440 Line A Extension through Lot 3

Project Description	
Friction Method	Manning Formula
Solve For	Full Flow Capacity

Input Data	
Roughness Coefficient	0.013
Channel Slope	0.030 ft/ft
Normal Depth	24.0 in
Diameter	24.0 in
Discharge	39.2 cfs

Results	
Discharge	39.2 cfs
Normal Depth	24.0 in
Flow Area	3.1 ft²
Wetted Perimeter	6.3 ft
Hydraulic Radius	6.0 in
Top Width	0.00 ft
Critical Depth	23.4 in
Percent Full	100.0 %
Critical Slope	0.027 ft/ft
Velocity	12.47 ft/s
Velocity Head	2.42 ft
Specific Energy	4.42 ft
Froude Number	(N/A)
Maximum Discharge	42.1 cfs
Discharge Full	39.2 cfs
Slope Full	0.030 ft/ft
Flow Type	Undefined

GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.0 %
Normal Depth Over Rise	100.0 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	24.0 in
Critical Depth	23.4 in
Channel Slope	0.030 ft/ft
Critical Slope	0.027 ft/ft

Worksheet for Circular Pipe-PD 2192 Lateral in Walnut

Project Description	
Friction Method	Manning Formula
Solve For	Full Flow Capacity

Input Data	
Roughness Coefficient	0.013
Channel Slope	0.005 ft/ft
Normal Depth	66.0 in
Diameter	66.0 in
Discharge	237.4 cfs

Results	
Discharge	237.4 cfs
Normal Depth	66.0 in
Flow Area	23.8 ft²
Wetted Perimeter	17.3 ft
Hydraulic Radius	16.5 in
Top Width	0.00 ft
Critical Depth	51.7 in
Percent Full	100.0 %
Critical Slope	0.005 ft/ft
Velocity	9.99 ft/s
Velocity Head	1.55 ft
Specific Energy	7.05 ft
Froude Number	(N/A)
Maximum Discharge	255.4 cfs
Discharge Full	237.4 cfs
Slope Full	0.005 ft/ft
Flow Type	Undefined

GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.0 %
Normal Depth Over Rise	100.0 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	66.0 in
Critical Depth	51.7 in
Channel Slope	0.005 ft/ft
Critical Slope	0.005 ft/ft

Worksheet for Circular Pipe-PD 2377 Line A Extension through Lots 1 & 2

Project Description	
Friction Method	Manning Formula
Solve For	Full Flow Capacity

Input Data	
Roughness Coefficient	0.013
Channel Slope	0.030 ft/ft
Normal Depth	42.0 in
Diameter	42.0 in
Discharge	174.3 cfs

Results	
Discharge	174.3 cfs
Normal Depth	42.0 in
Flow Area	9.6 ft²
Wetted Perimeter	11.0 ft
Hydraulic Radius	10.5 in
Top Width	0.00 ft
Critical Depth	41.2 in
Percent Full	100.0 %
Critical Slope	0.027 ft/ft
Velocity	18.11 ft/s
Velocity Head	5.10 ft
Specific Energy	8.60 ft
Froude Number	(N/A)
Maximum Discharge	187.4 cfs
Discharge Full	174.3 cfs
Slope Full	0.030 ft/ft
Flow Type	Undefined

GVF Input Data	
Downstream Depth	0.0 in
Length	0.0 ft
Number Of Steps	0

GVF Output Data	
Upstream Depth	0.0 in
Profile Description	N/A
Profile Headloss	0.00 ft
Average End Depth Over Rise	0.0 %
Normal Depth Over Rise	100.0 %
Downstream Velocity	Infinity ft/s
Upstream Velocity	Infinity ft/s
Normal Depth	42.0 in
Critical Depth	41.2 in
Channel Slope	0.030 ft/ft

Worksheet for Circular Pipe-PD 2377 Line A Extension through Lots 1 & 2

GVF Output Data	
Critical Slope	0.027 ft/ft

Appendix 12

Detention Stage-Discharge Calculations

Rating Table for Lots 1 & 2 Circular Orifice-Detention Tank Outflow

Project Description	
Solve For	Discharge

Input Data	
Headwater Elevation	5.00 ft
Centroid Elevation	1.25 ft
Tailwater Elevation	0.00 ft
Discharge Coefficient	0.826
Diameter	30.0 in

Orifice Calculations per methodology from King's Handbook Chapter 4 Eqn 4-10 (Q=CAsqrt(2gh))
C = 0.826 Table 4-11

Headwater Elevation (ft)	Discharge (cfs)	Velocity (ft/s)
0.00	See Normal-Depth Calculations for discharges associated with these depths	(N/A)
0.25		(N/A)
0.50		(N/A)
0.75		(N/A)
1.00		(N/A)
1.25		(N/A)
1.50	16.3	3.31
1.75	23.0	4.69
2.00	28.2	5.74
2.25	32.5	6.63
2.50	36.4	7.41
2.75	39.8	8.12
3.00	43.0	8.77
3.25	46.0	9.37
3.50	48.8	9.94
3.75	51.4	10.48
4.00	53.9	10.99
4.25	56.3	11.48
4.50	58.6	11.95
4.75	60.8	12.40
5.00	63.0	12.83

Rating Table for Circular Pipe -Lots 1 & 2 Det outflow

Project Description	
Friction Method	Manning Formula
Solve For	Discharge

Input Data	
Roughness Coefficient	0.013
Channel Slope	0.004 ft/ft
Normal Depth	1.50 ft
Diameter	30.0 in

For depths below orifice calculations, Manning's normal depth metholology used.

Normal Depth (ft)	Discharge (cfs)	Velocity (ft/s)	Flow Area (ft^2)	Wetted Perimeter (ft)	Top Width (ft)
0.25	0.5	1.98	0.3	1.6	1.50
0.50	2.1	3.04	0.7	2.3	2.00
0.75	4.8	3.84	1.2	2.9	2.29
1.00	8.2	4.46	1.8	3.4	2.45
1.25	12.1	4.94	2.5	3.9	2.50
1.50	16.3	5.30	3.1	4.4	2.45

See Orifice Calculations for discharges associated with higher depths.

Rating Table for Lot 3 Circular Orifice-Detention Tank Outflow25-yr

Project Description

Solve For	Discharge

Input Data

Headwater Elevation	5.000 ft
Centroid Elevation	0.625 ft
Tailwater Elevation	0.000 ft
Discharge Coefficient	0.625
Diameter	15.0 in

Orifice Calculations per methodology from King's Handbook Chapter 4 Eqn 4-10 (Q=CAsqrt(2gh))
C = 0.625 Table 4-11

Headwater Elevation (ft)	Discharge (cfs)	Velocity (ft/s)
0.250	See Normal-Depth Calculations	(N/A)
0.500	for discharges associated with these depths	(N/A)
0.750	2.2	1.77
1.000	3.8	3.07
1.250	4.9	3.96
1.500	5.8	4.69
1.750	6.5	5.32
2.000	7.2	5.88
2.250	7.8	6.39
2.500	8.4	6.87
2.750	9.0	7.31
3.000	9.5	7.73
3.250	10.0	8.12
3.500	10.4	8.50
3.750	10.9	8.86
4.000	11.3	9.21
4.250	11.7	9.55
4.500	12.1	9.87
4.750	12.5	10.18
5.000	12.9	10.49

Rating Table for Copy of Circular Pipe -Lot 3 Det outflow

Project Description	
Friction Method	Manning Formula
Solve For	Discharge

Input Data	
Roughness Coefficient	0.013
Channel Slope	0.002 ft/ft
Normal Depth	1.00 ft
Diameter	15.0 in

For depths below orifice calculations, Manning's normal depth methology used.

Normal Depth (ft)	Discharge (cfs)	Velocity (ft/s)	Flow Area (ft^2)	Wetted Perimeter (ft)	Top Width (ft)
0.25	0.3	1.59	0.2	1.2	1.00
0.50	1.1	2.33	0.5	1.7	1.22
0.75	2.1	2.77	0.8	2.2	1.22

See Orifice Calculations for discharges associated with higher depths.

Rating Table for Lot 5-Circular Orifice-Detention Tank Outflow-R1

Project Description	
Solve For	Discharge

Input Data	
Headwater Elevation	5.000 ft
Centroid Elevation	1.000 ft
Tailwater Elevation	0.000 ft
Discharge Coefficient	0.76
Diameter	24.0 in

Orifice Calculations per methodology from King's Handbook Chapter 4 Eqn 4-10 (Q=CAsqrt(2gh))
C = 0.787 Table 4-11

Headwater Elevation (ft)	Discharge (cfs)	Velocity (ft/s)
0.000		(N/A)
0.250		(N/A)
0.500		(N/A)
0.750		(N/A)
1.000		(N/A)
1.250	9.6	3.04
1.500	13.5	4.30
1.750	16.5	5.27
2.000	19.1	6.08
2.250	21.4	6.80
2.500	23.4	7.45
2.750	25.3	8.04
3.000	27.0	8.60
3.250	28.7	9.12
3.500	30.2	9.61
3.750	31.7	10.08
4.000	33.1	10.53
4.250	34.4	10.96
4.500	35.7	11.38
4.750	37.0	11.77
5.000	38.2	12.16

See Normal-Depth Calculation
for discharges associated with these depths

Rating Table for Circular Pipe -Lot 5 Det outflow

Project Description	
Friction Method	Manning Formula
Solve For	Discharge

Input Data	
Roughness Coefficient	0.013
Channel Slope	0.002 ft/ft
Normal Depth	1.50 ft
Diameter	24.0 in

For depths below orifice calculations, Manning's normal depth metholology used.

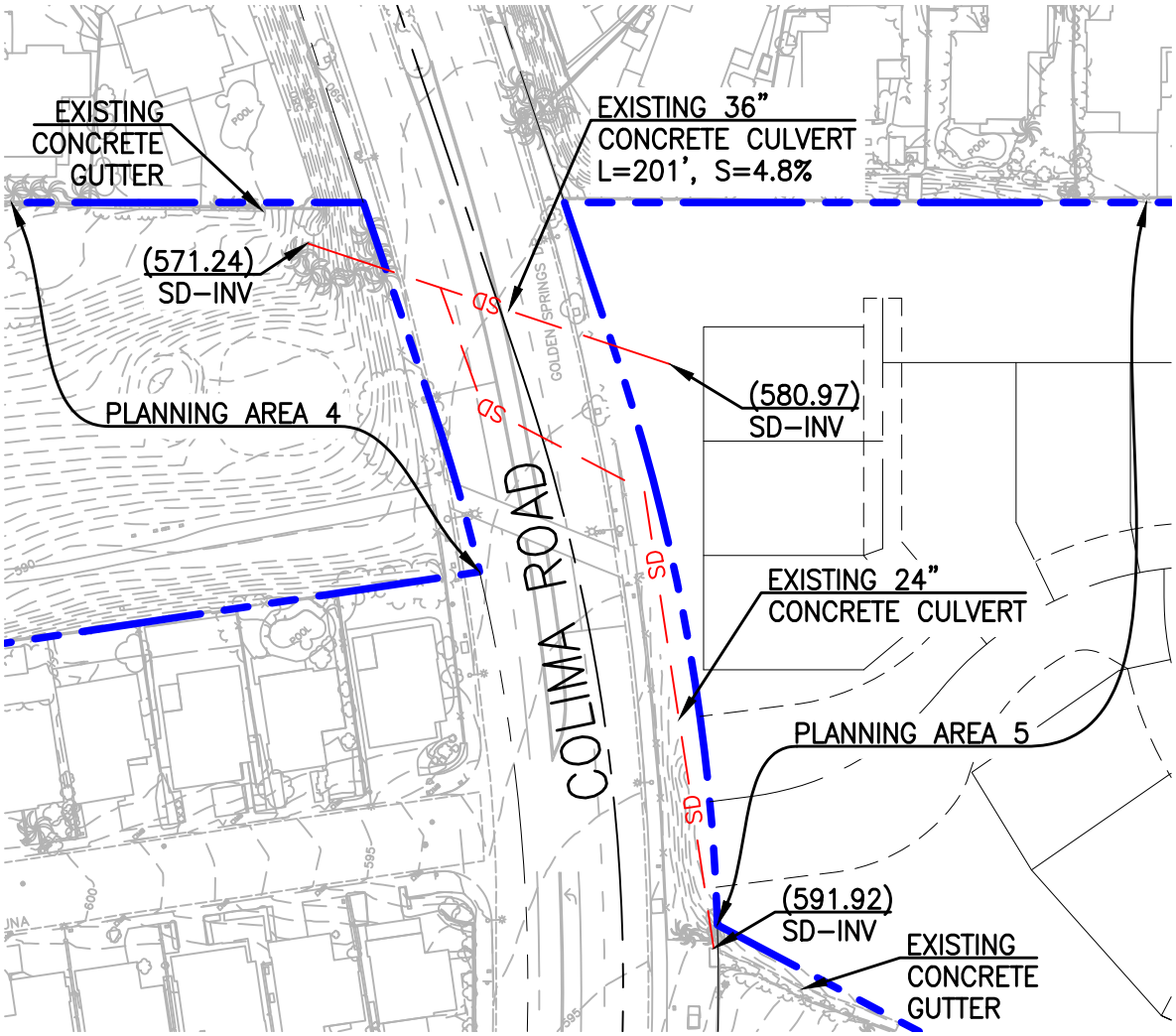
Normal Depth (ft)	Discharge (cfs)	Velocity (ft/s)	Flow Area (ft^2)	Wetted Perimeter (ft)	Top Width (ft)
0.25	0.4	1.59	0.2	1.4	1.32
0.50	1.5	2.42	0.6	2.1	1.73
0.75	3.2	3.02	1.1	2.6	1.94
1.00	5.4	3.45	1.6	3.1	2.00
1.25	7.8	3.75	2.1	3.6	1.94

See Orifice Calculations for discharges associated with higher depths.

Appendix 13

Colima Road Culvert Exhibit

ROYAL VISTA RESIDENTIAL PROJECT
HYDROLOGY REPORT
EXISTING CULVERT STUDY @ COLIMA ROAD



LEGEND

- STREET CENTERLINE
- RIGHT OF WAY
- SD — EXISTING STORM DRAIN

NOTE: INVERT ELEVATIONS OBTAINED FROM FUSCOE SURVEY (2021)

100' 0' 50' 100'

SCALE: 1" = 100'

REGISTERED PROFESSIONAL ENGINEER
ANDREW JEFFERSON WILLRODT
No.C49881
CIVIL
STATE OF CALIFORNIA

FUSCOE ENGINEERING
16795 Von Karman, Suite 100
Irvine, California 92606
tel 949.474.1960 ◦ fax 949.474.5315
www.fuscoe.com

LAND DEVELOPMENT DIVISION
STORM DRAIN & HYDROLOGY UNIT

TO: Fuscoe
ATTN: Sue Williams

DATE 4/11/23

REVIEW OF REVISED LID PLAN

TR NO. **83534**

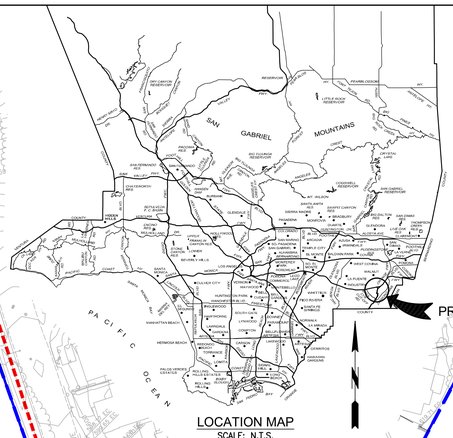
DATE OF REPORT **03/30/2023**
PLAN CHECK NO. **1 (Revision 2)**
PLAN CASE NO. **ESTU2021000469**

We have reviewed your Hydrology Study.

[X] The Hydrology Study has been approved.

REVIEWED BY _____
Alex Mikhailpoor - (626) 458-4921

APPROVED BY: Thong Ngov



LOCATION MAP
SCALE: N.T.S
T.G. 557-E5

TIERRA LUNA

TIERRA SIESTA

COLIMA ROAD

WALNUT DR

LANDSCAPED FLOW TRAVELS TO PUBLIC CULVERT

LANDSCAPED FLOW TRAVELS TO OFFSITE CULVERT

OFFSITE FLOW ONTO PROJECT SITE JOIN PROPOSED PUBLIC STORM DRAIN

OFFSITE FLOW ONTO PROJECT SITE JOIN PROPOSED PUBLIC STORM DRAIN

OFFSITE FLOW ONTO PROJECT SITE JOIN PROPOSED PUBLIC STORM DRAIN

OFFSITE FLOW ONTO PROJECT SITE = JOIN PROPOSED PUBLIC STORM DRAIN

JOIN PROPOSED PUBLIC STORM DRAIN TO EXISTING PUBLIC STORM DRAIN

48" RCP STORM DRAIN LA COUNTY (PD1266)

30" RCP STORM DRAIN LA COUNTY (PD1266)

24" RCP STORM DRAIN LA COUNTY (PD1440)

42" RCP STORM DRAIN LA COUNTY (PD2377)

72" RCP STORM DRAIN LA COUNTY (PD2192)

1H 0.65 | 2H 2.6 | 3H 0.36 | 4H 0.58 | 5H 0.57 | 6H 0.57 | 7H 0.57 | 8H 0.32 | 9H 0.36 | 10H 0.32

1C 2.0 | 1D 2.5 | 1E 1.3 | 1F 3.0 | 2C 0.9 | 2F 1.8 | 3C 1.1 | 3F 1.8 | 4C 2.9 | 4F 2.2 | 5C.1 0.7 | 5C.2 1.4 | 5F 0.2 | 6C 0.8 | 7C 1.5 | 8C 1.1 | 9C 1.0 | 10C 1.7 | 11C 1.5 | 12C 2.5 | 13C 3.0 | 14C 4.4 | 15C 1.1 | 1G 0.3 | 1J 10.2

LENGTH=790' SLOPE=0.08
LENGTH=677' SLOPE=0.02
LENGTH=390' SLOPE=0.03
LENGTH=562' SLOPE=0.04
LENGTH=524' SLOPE=0.02
LENGTH=631' SLOPE=0.05
LENGTH=466' SLOPE=0.02
LENGTH=1074' SLOPE=0.04
LENGTH=1044' SLOPE=0.04
LENGTH=488' SLOPE=0.05
LENGTH=450' SLOPE=0.05
LENGTH=531' SLOPE=0.07
LENGTH=444' SLOPE=0.02
LENGTH=479' SLOPE=0.04
LENGTH=454' SLOPE=0.04
LENGTH=1060' SLOPE=0.02
LENGTH=224' SLOPE=0.03
LENGTH=195' SLOPE=0.05
LENGTH=225' SLOPE=0.04
LENGTH=235' SLOPE=0.06
LENGTH=235' SLOPE=0.08
LENGTH=189' SLOPE=0.07
LENGTH=183' SLOPE=0.06
LENGTH=194' SLOPE=0.05
LENGTH=917' SLOPE=0.07
LENGTH=398' SLOPE=0.02
LENGTH=540' SLOPE=0.04
LENGTH=476' SLOPE=0.05
LENGTH=427' SLOPE=0.03
LENGTH=99' SLOPE=0.04

18" | 24" | 30" | 36" | 42" | 48" | 72"

RW | SS | 05

BELLA VISTA

LID BMP SIZING SUMMARY

DMA	TRIBUTARY AREA (AC)	% IMPERVIOUS	FILTERRA TREATMENT FLOW RATE REQUIRED (CFS)	FILTERRA MODEL	FILTERRA TREATMENT CAPACITY (CFS)	SWQDf (CFS)	SWQDV VOLUME (CF)
1C	1.97	42%	0.396	8X16	0.4148	0.29	3225
1D	2.49	5%	0.328	8X14	0.3630	0.23	1516
1E	1.34	5%	0.189	6X10	0.1944	0.15	828
1F	3.03	17%	0.460	8X18	0.4667	0.31	2847
2C	0.92	55%	0.232	6X12	0.2333	0.20	1841
3C	1.15	55%	0.269	7X13	0.2949	0.22	2299
4C	2.86	55%	0.692	8X14 (2 UNITS)	0.7260	0.56	5720
5C	2.12	12%	0.330	8X16	0.4148	0.24	1740
6C	0.76	42%	0.203	6X12	0.2333	0.15	1249
7C	1.47	55%	0.361	8X14	0.3630	0.31	2941
8C	1.09	55%	0.267	7X13	0.2949	0.23	2181

LID BMP SIZING SUMMARY CONTINUED

DMA	TRIBUTARY AREA (AC)	% IMPERVIOUS	FILTERRA TREATMENT FLOW RATE REQUIRED (CFS)	FILTERRA MODEL	FILTERRA TREATMENT CAPACITY (CFS)	SWQDf (CFS)	SWQDV VOLUME (CF)
9C	1.01	42%	0.226	6X12	0.2333	0.1900	1659
10C	1.70	42%	0.362	8x16	0.4148	0.29	2789
11C	1.49	42%	0.317	8x14	0.3630	0.25	2445
12C	2.48	49%	0.558	8X12 (2 UNITS)	0.6222	0.45	4562
13C	2.98	42%	0.586	7X13 (2 UNITS)	0.5898	0.40	4865
14C	4.41	35%	0.790	7X13 (3 UNITS)	0.8847	0.51	6322
15C	1.12	42%	0.249	7X13	0.2949	0.20	1839
2F	1.78	42%	0.396	8X16	0.4148	0.33	2424
3F	1.83	42%	0.407	8X16	0.4148	0.34	3006
4F	2.25	42%	0.494	7X13 (2 UNITS)	0.5898	0.39	3693
5F	0.17	42%	0.050	4X4	0.0519	0.06	280
1H	0.65	55%	0.186	6X12	0.2333	0.18	1303
2H	2.60	2%	0.149	6X12	0.2333	0.06	1151
3H	0.36	55%	0.105	6X8	0.1556	0.11	722
4H	0.58	55%	0.168	6X12	0.2333	0.16	1163
5H	0.57	55%	0.169	6X12	0.2333	0.16	1143
6H	0.57	55%	0.169	6X12	0.2333	0.17	1143
7H	0.57	55%	0.169	6X12	0.2333	0.17	1143
8H	0.32	55%	0.097	6X6	0.1167	0.10	642
9H	0.36	55%	0.109	6X8	0.1556	0.11	722
10H	0.32	55%	0.095	6X6	0.1167	0.09	641

HYDROLOGY STUDY APPROVED

REVIEWED BY: _____ DATE 05/02/2023

APPROVED BY: Thong Nguyen DATE 05/02/2023

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
LAND DEVELOPMENT DIVISION

LEGEND

- PROPERTY LINE / RIGHT-OF-WAY-LINE
- PROPOSED PRIVATE STORM DRAIN
- PROPOSED PUBLIC STORM DRAIN
- EXISTING PUBLIC STORM DRAIN
- DRAINAGE SUBAREAS
- OFFSITE SHEET FLOW ONTO PROJECT SITE
- FLOW PATH
- G7 / 6.2 — DRAINAGE AREA ID / ACREAGE
- RCP — REINFORCED CONCRETE PIPE
- CFS — CUBIC FEET PER SECOND
- PROPOSED FILTERRA UNIT
- CATCH BASIN / STORM DRAIN SIGNAGE
- PROPOSED DETENTION TANK

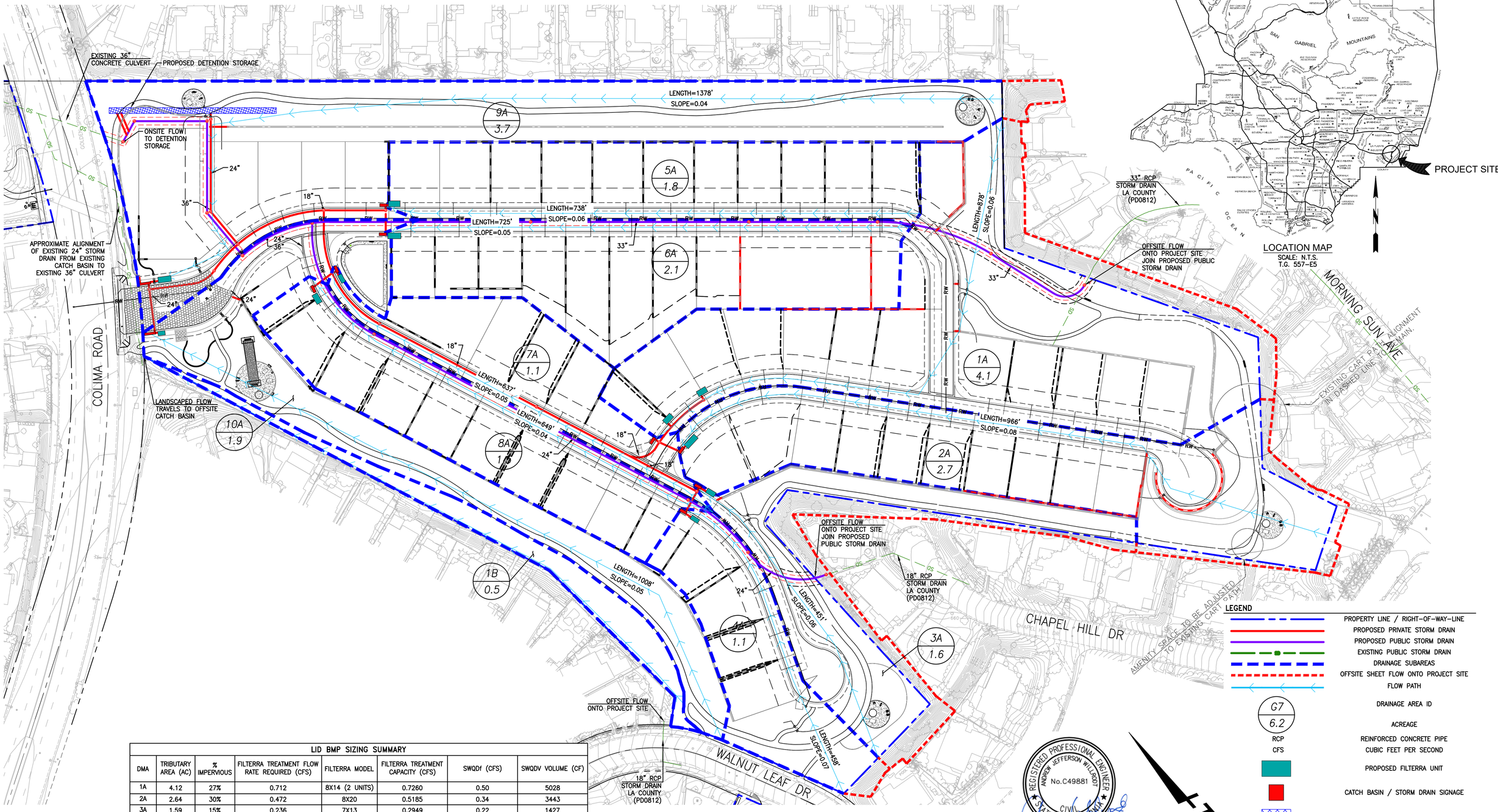
60' 0' 20' 40' 60' 120'
SCALE: 1" = 60'

REGISTERED PROFESSIONAL ENGINEER
ANDREW JEFFERSON WILLDOO
No.C49881
CIVIL
STATE OF CALIFORNIA

LID EXHIBIT
ROYAL VISTA RESIDENTIAL
PROJECT - LOT 1, 2, & 3

FUSCOE
ENGINEERING
16795 Von Karman, Suite 100
Irvine, California 92606
tel 949.474.1960 • fax 949.474.5315
www.fuscoe.com

P:\PROJECTS\2021\21-0000-2021\21-0000-2021 - LOT 1-3 LID EXHIBIT.DWG 05-01-2023 8:24:51 PM by andyhack



LID BMP SIZING SUMMARY							
DMA	TRIBUTARY AREA (AC)	% IMPERVIOUS	FILTERRA TREATMENT FLOW RATE REQUIRED (CFS)	FILTERRA MODEL	FILTERRA TREATMENT CAPACITY (CFS)	SWQDf (CFS)	SWQDV VOLUME (CF)
1A	4.12	27%	0.712	8X14 (2 UNITS)	0.7260	0.50	5028
2A	2.64	30%	0.472	8X20	0.5185	0.34	3443
3A	1.59	15%	0.236	7X13	0.2949	0.22	1427
4A	1.11	27%	0.220	6X12	0.2333	0.18	1365
5A	1.70	55%	0.421	8X18	0.4667	0.33	3578
6A	2.11	55%	0.482	8X20	0.5185	0.39	4218
7A	1.06	42%	0.224	6X12	0.2333	0.18	1739
8A	1.54	42%	0.325	8X14	0.3630	0.25	2525
9A	3.79	55%	0.433	8X18	0.4667	0.52	7537
10A	1.86	9%	0.184	6X10	0.1944	0.13	1310

FUSCOE ENGINEERING
16795 Von Karman, Suite 100
Irvine, California 92606
tel 949.474.1960 ◦ fax 949.474.5315
www.fuscoe.com

HYDROLOGY STUDY APPROVED

REVIEWED BY: _____ DATE 05/02/2023

APPROVED BY: Thong Ngov DATE 05/02/2023

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
LAND DEVELOPMENT DIVISION

REGISTERED PROFESSIONAL ENGINEER
ANDREW JEFFERSON WILLRODT
No.C49881
CIVIL
STATE OF CALIFORNIA

60' 0' 20' 40' 60' 120'
SCALE: 1" = 60'

LID EXHIBIT
ROYAL VISTA RESIDENTIAL PROJECT - LOT 5

P:\PROJECTS\601004\LDM\PS\601004-00MXH - LOT 5 LID EXHIBIT.DWG [02-16-2023 11:52:59AM] Plotted by: mstephens



FUSCOE ENGINEERING

LOW IMPACT DEVELOPMENT PLAN (LID PLAN)

ROYAL VISTA RESIDENTIAL PROJECT

COUNTY CASE NO. ESTU2021000469

PREPARED FOR
PROJECT DIMENSIONS, INC.
4 PARK PLAZA, SUITE 700
IRVINE, CA 92614
949.476.2246

REGISTERED PROFESSIONAL ENGINEER
ANDREW JEFFERSON WILLRODT
No.C49881
CIVIL
STATE OF CALIFORNIA

FUSCOE ENGINEERING, INC.
16795 Von Karman, Suite 100
Irvine, California 92606
949.474.1960
www.fuscoe.com

PROJECT MANAGER
Andy Willrodt, PE

DATE PREPARED: March 29, 2023

PROJECT NUMBER: 662-004

HYDROLOGY STUDY APPROVED

REVIEWED BY: _____ DATE 04/11/2023

APPROVED BY: Thong Ngov DATE 5/2/2023

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
LAND DEVELOPMENT DIVISION

full circle thinking®

TR8534-Royal Vista Residential Project – Narrative of Revisions:

The items that changed are that Lots 4 and 6 were originally being developed as park (original approved reports), but are now being left alone, and are not being developed. Lots 4 and 6 will remain as part of the open-space component of the project. Therefore, the hydrology and LID calculations and BMP's that were originally located on Lots 4 and 6 have been eliminated from the report.

LOW IMPACT DEVELOPMENT (LID) PLAN

ROYAL VISTA RESIDENTIAL PROJECT

Located in Rowland Heights
in
Unincorporated Los Angeles County, California

Prepared for:

PROJECT DIMENSIONS, INC.
4 Park Plaza, Suite 700
Irvine, CA 92614
949-476-2246

Prepared by:

FUSCOE ENGINEERING, INC.
16795 Von Karman Ave, Suite 100
Irvine, CA 92606
949.474.1960



Date Prepared: March 29, 2023

OWNER CERTIFICATION

LOW IMPACT DEVELOPMENT PLAN

This Final Low Impact Development Plan (LID Report) has been prepared for PROJECT DIMENSIONS, INC. by FUSCOE ENGINEERING, INC. It is intended to comply with Order No. 96-054 as required, and intended to comply to the greatest extent feasible with the County of Los Angeles National Pollution Discharge Elimination Permit (Order No. R4-2012-0175, NPDES Permit No. CAS004001) issued by the Los Angeles Regional Water Quality Control Board. The undersigned is authorized to approve implementation of the provisions of this plan as appropriate and will strive to have the plan carried out by successors consistent with the County of Los Angeles Department of Public Works Low Impact Development Standards Manual and the intent of the NPDES stormwater program requirements.

Signed:

Signature	Date
Name	Title
Company Name	Telephone
Company Address	

ENGINEER'S CERTIFICATION

PREPARER (ENGINEER): Andy Willrodt, PE			
Title	Principal/Senior Project Manager	**PE Registration #**	79562
Company	Fuscoe Engineering, Inc.		
Address	16795 Von Karman, Suite 100, Irvine, CA 92606		
Email	awillrodt@fuscoe.com		
Telephone #	949.474.1960		
I hereby certify that this Low Impact Development Plan is, to the greatest extent feasible, in compliance with, and meets the requirements set forth in, Order No. R4-2012-0175/NPDES No. CAS004001, of the Los Angeles Regional Water Quality Control Board.			
Preparer Signature:		**Date**	
Place Stamp Here			

TABLE OF CONTENTS

SECTION PAGE

1 INTRODUCTION 1
2 EXISTING SITE DESCRIPTION *(LID Manual Section 4)* 3
2.1 Existing Site Conditions 3
2.2 Watershed Conditions 3
2.3 Existing Drainage Conditions 4
2.4 Soil Conditions & Infiltration Characteristics *(LID Manual Section 7.3)* 4
3 PROJECT DESCRIPTION *(LID Manual Section 4)* 5
3.1 Project Description 5
3.2 Proposed Drainage Conditions 5
3.3 Hydrologic Conditions of Concern *(LID Manual Section 8)* 6
4 DESIGNATED PROJECT CATEGORIES *(LID Manual Section 2)* 7
4.1 Project Categories 7
4.2 LID Performance Criteria *(LID Manual Section 6)* 10
5 BEST MANAGEMENT PRACTICES (BMPs) 15
5.1 Low Impact Development BMPs *(LID MAnual Section 7)* 15
5.2 Treatment Control BMPs 19
5.3 Site Design Principles *(LID Manual Section 4)* 19
5.4 Source Control Measures *(LID Manual Section 5)* 20
6 BMP OPERATIONS & MAINTENANCE *(LID Manual Section 9)* 24
7 EXHIBITS 26
8 APPENDICES 29

APPENDICES

Appendix 1 ..... LID BMP Sizing Calculations & Details
Appendix 2 ..... Proposed Hydrology Maps
Appendix 3 ..... Master Covenant and Agreement
Appendix 4 ..... BMP Operations & Maintenance Plan Supplement
Appendix 5 ..... Source Control BMP Fact Sheets
Appendix 6 ..... Public Education Materials
Appendix 7 ..... Soils/Geotechnical Report

1 INTRODUCTION

This Low Impact Development (LID) Plan covers the post-construction operations for the Royal Vista Residential Project (Royal Vista), in the community of Rowland Heights, unincorporated Los Angeles County, CA (see Figure 1, Vicinity Map). This report has been developed as required under Los Angeles Regional Water Quality Control Board (LA RWQCB) NPDES Municipal Separate Storm Sewer System (MS4) Permit for the Coastal Watersheds of Los Angeles County (Order No. R4-2012-0175 NPDES Permit No. CAS004001, herein referred to as MS4 Permit) and in accordance with the County of Los Angeles Department of Public Works Low Impact Development Standards Manual dated February 2014 (LID Standards Manual).

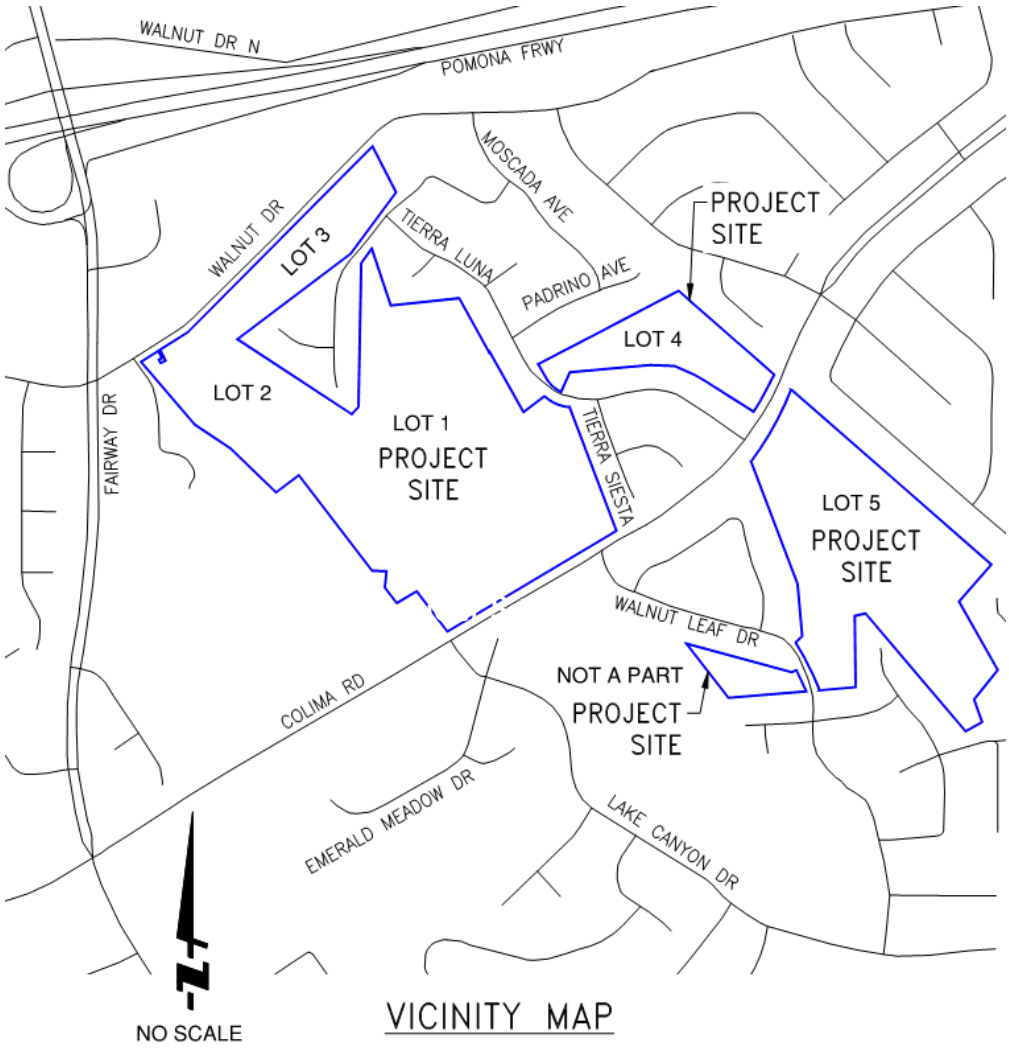
This LID Plan shall incorporate the objectives specified in the County of Los Angeles Department of Public Works Low Impact Development Standards Manual (LID Standards Manual), which includes identification of design considerations following a site assessment; applying site-specific source control measures; detail implementation of BMPs; assignment of long-term maintenance responsibilities; and show a design plan that will be implemented in order to mitigate post-construction stormwater runoff pollution. Individual report sections identify the corresponding LID Standards Manual Section where applicable (in parentheses) according to the following format.

- Conduct site assessment and identify design considerations *(LID Manual Section 4)*
- Apply site-specific source control measures *(LID Manual Section 5)*
- Calculate SWQDv *(LID Manual Section 6)*
- Implement stormwater quality control measures *(LID Manual Section 7)*
- Implement hydromodification requirements, if necessary *(LID Manual Section 8)*
- Develop a Maintenance Plan, if necessary *(LID Manual Section 9)*

This report is intended to serve as a community-wide LID Plan for the Royal Vista Residential Project. This LID Plan report covers the overall 76-acre project site (comprised of six separate development areas and referred to as "Lots" for the remainder of the report), including streets, drainage facilities, parks, residential areas, and structural treatment BMPs that will be maintained by a Home Owner's Association (HOA).

Prior to issuance of any grading permits, the applicant shall submit a Stormwater Pollution Prevention Plan (SWPPP) program acceptable to the City Engineer to comply with the latest National Pollutant Discharge Elimination System (NPDES) stormwater regulations. The project shall incorporate both construction and operational Best Management Practices to minimize construction and urban pollutants in stormwater runoff. If required, the applicant shall obtain a State Water Resources Board General Construction Activities Stormwater Permit.

Figure 1. Vicinity Map



2 EXISTING SITE DESCRIPTION *(LID Manual Section 4)*

The 75.23-acre Royal Vista Residential Project (Project) is located in Unincorporated County of Los Angeles (County), in the northeastern most part of the Rowland Heights Community, California. The Project Site encompasses six non-contiguous parcels located both north and south of Colima Road, including Assessor Parcel Numbers (APNs) 8762-022-002, 8762-023-001, 8762-023-002, 8762-027-039, 8764-002-005, and 8764-002-006 (Los Angeles County Office of the Assessor, 2021), and located in the 20100 block of Colima Road, Rowland Heights, California 91789 (Project Site). The Project Site parcels generally constitute 13 holes and the driving range of the existing 27-hole Royal Vista Golf Club on Colima Road. The Project Site is bisected by Colima Road, comprised of approximately 54 acres and four parcels north of Colima Road, and approximately 22 acres and two parcels south of Colima Road (see Figure 1, Vicinity Map).

2.1 EXISTING SITE CONDITIONS

The majority of the project site is gently sloping. Some steeper slopes exist on portions of the perimeter of the site. As determined from site visits, aerial photos and topographic maps, the site lots slope towards the northerly and westerly directions at gradients of approximately 4% - 7%. Generally, the site areas are currently each set below the neighboring residential areas. The site is predominately open space consisting of a grass golf course and the driving range. However, sections of landscaped trees and scattered brush, and cart paths are scattered throughout the site.

2.2 WATERSHED CONDITIONS

The project site is located approximately 0.35 miles south of San Jose Creek Reach 1, within the San Gabriel River watershed. Runoff from the project site drains into existing storm drains to San Jose Creek Reach 1, which is tributary to the San Gabriel River, which ultimately flows to the Pacific Ocean.

Runoff from the project site indirectly discharges to San Jose Creek, which is listed on the 2014-2016 303(d) list as impaired for a range on constituents. A summary of waterbodies and 303(d) listed impairments and TMDLs is included below. TMDLs for the below listed constituents are expected to be completed between the years 2021 and 2027. To date, a Coliform TMDL has been established for the San Gabriel River since 2016, a Metals TMDL has been established since 2007, and a Dominguez, LA/LB Harbors, & San Pedro Bay TMDL that addresses Metals, Toxics, and PAHs has been established since 2012.

WATERBODY	2014-2016 303(d) LIST IMPAIRMENTS	TMDLs
San Jose Creek Reach 1 (SG Confluence to Temple St.)	Ammonia; Indicator Bacteria; pH; Total Dissolved Solids; Toxicity	Coliform
San Gabriel River Reach 3 (Whittier Narrows to Ramona)	Indicator Bacteria	Coliform
San Gabriel River Reach 2 (Firestone to Whittier Narrows Dam)	Cyanide; Lead; Temperature, Water	Metals

San Gabriel River Reach 1 (Estuary to Firestone)	pH; Temperature, Water	
San Gabriel River Estuary	Copper; Dioxin; Indicator Bacteria; Nickel; Oxygen, Dissolved	Metals; Coliform
San Pedro Bay Near/Off Shore Zones	Chlordane; PCBs (Polychlorinated biphenyls); Total DDT; Toxicity	Metals, Toxics, and PAHs

2.3 EXISTING DRAINAGE CONDITIONS

The existing drainage patterns for the site lots are consistent with existing topography, which conveys storm flows generally from southeast to north and northwest. Flows are routed through the existing swales and gutters, which ultimately convey storm flows to Los Angeles County Flood Control District (LACFCD) public facilities at the northerly and northwesterly portions of the site. Additional drainage and hydrology details are provided under a separate report titled "Royal Vista Residential Project – Hydrology Report."

2.4 SOIL CONDITIONS & INFILTRATION CHARACTERISTICS *(LID MANUAL SECTION 7.3)*

Based on the Geotechnical Evaluation and Feasibility Study prepared by LGC Geotechnical, Inc. dated July 13, 2020, the property is underlain by older artificial fill that was encountered at depths extending from approximately 2.5 feet to 25 feet below existing grades. The fill was placed as part of original golf course construction in 1963. Documentation of the fill placement was not identified. The fill soils and underlying compressible native materials should be removed to suitable native material during site grading. The artificial fill is underlain at depth by bedrock associated with the Soquel Member of the Puente Formation. The Soquel Member of the Puente Formation generally consists of massive, well cemented fine to coarse grained light brown to yellow sandstones that are locally interbedded with gray siltstones. In general, bedding in the area of the project site is trending east-west to northwesterly and dipping toward the northeast. Site soils are characterized as type 002, according to the Los Angeles County Department of Public Works web-based Hydrology Map (http://dpw.lacounty.gov/wrd/hydrologygis/).

Groundwater was encountered in five of the seven borings done by LGC Geotechnical, Inc. as shallow as 2.5 feet below the existing grade. Localized areas with significant amounts of perched groundwater within the older artificial fill and upper portions of the underlying native materials should be anticipated. Historic high groundwater is mapped in a relatively small portion of the stie adjacent to the intersection of East Walnut Drive and Bellavista drive at a depth of 0 to 30 feet below existing grade.

Significant remedial grading across the majority of the site will be required. The depth of potentially compressible materials recommended for removal and recompaction during site remedial grading are estimated to be approximately 25 feet below existing grades. Infiltration is not feasible for the site due to the anticipated post-grade condition of compacted artificial fill overlying dense bedrock materials. The infeasibility determination is further supported by the similarity to the existing conditions of artificial fill and bedrock and the presence of perched groundwater throughout the site.

3 PROJECT DESCRIPTION *(LID Manual Section 4)*

3.1 PROJECT DESCRIPTION

The proposed Project would develop a 360 residential community on four of the planning areas (Lots 1, 2, 3, and 5), while allowing the two remaining planning areas (Lot 4 and 6) to remain as existing open space areas. The proposed residential community would consist of a 31.59-acre planning area north of Colima Road (Lot 1), a 9.46-acre second planning area north of Colima Road and south of E Walnut Drive South (Lot 2), a 6.1-acre planning area south of E Walnut Drive South (Lot 3), existing 5.74-acre to remain as existing open space north of Colima Road, east of Tierra Luna (Lot 4), a 21.09-acre planning area south of Colima Road (Lot 5), and an existing 1.65-acre planning area to remain as open space, south of Colima Road and west of Walnut Leaf Drive (Lot 6) for a total of 75.63 acres.

Two of the four proposed residential planning areas (Lots 1and 5) will be subdivided into duplexes and triplexes and detached single-family units. Lot 3 will include only townhomes units within 14 structures as well as open space area. Lot 2 will include detached single-family units and open space area. The average lot size for the 216 detached single-family units will be 5,000 sf, either 60 feet x 84 feet or 47 feet x 107 feet in area. Single-family residential structures on the 60' x 84' lots will range in size from 2,800 sf to 3,200 sf. Single-family residential structures on the 47' x 107' lots will range in size from 2,600 sf to 3,000 sf. Lot 4, a 5.74-acre area within the golf course will remain as open space undeveloped, along with Lot 6, a 1.65-acrea area. The Project is 75.63 net acres in size, would develop 360 residential units (216 detached single-family units and 144 townhomes, duplexes, and or triplexes), and would include 27.86 acres of onsite retained open space. Refer to the attached Site Plan for locations of proposed facilities.

PROPOSED LAND USE BREAKDOWN			
Type	**Area (ac)**	**Number of Units**	**Impervious %**
Single-Family Residential (Moderate Density)	35.97	216	42%
Townhomes / Duplex / Triplex	11.80	144	55%
Open Space	27.86	N/A	2%
Total	75.63	360	29.3%

3.2 PROPOSED DRAINAGE CONDITIONS

The proposed onsite storm drain facilities will consist of a combined low flow water quality and peak flow conveyance system. A low flow water quality system will intercept the low flows and provide water quality treatment in order to meet the LA County LID Ordinance. A peak flow storm drain storm drain system will provide peak flow reduction via a detention system in order to meet the capacity requirements of the existing LACFCD drainage facilities.

As shown in the LID Exhibits, LID BMPs and detention systems are proposed for Lots 1 – 3 and 5. Catch basin inlets will intercept storm flows and convey the flows through a network of storm drain pipes into each respective detention system. The detention system will function to provide peak flow detention to meet the downstream requirements.

The alignment, location, and estimated sizes of the proposed storm drain facilities are provided on the LID Exhibits (Section 7).

With the proposed storm drain and detention systems as presented within this report, the existing facilities will continue to function as they do currently without adverse impact to the downstream reaches.

3.3 HYDROLOGIC CONDITIONS OF CONCERN *(LID MANUAL SECTION 8)*

Project runoff flows to San Jose Creek to the north, a fully improved concrete flood channel. This channel ultimately discharges to the Whittier Narrows Dam spreading ground approximately 10.5 miles downstream, where flows are managed by a series of dams for groundwater and flood control purposes. Therefore, the project is exempt from hydromodification requirements.

4 DESIGNATED PROJECT CATEGORIES *(LID Manual Section 2)*

4.1 PROJECT CATEGORIES

Listed in the table below are the project categories that are considered Designated Projects. Those categories that apply to the proposed project are indicated by a check mark on the left-hand column.

CHECK BELOW	DESIGNATED PROJECT CATEGORY
<u>DESIGNATED PROJECTS – NEW DEVELOPMENT</u> Development projects subject to Permittee conditioning and approval for the design and implementation of post-construction controls to mitigate stormwater pollution, prior to completion of the project(s), are:	
	Development project equal to 1 acre or greater of disturbed area AND adding ≥10,000 square feet of impervious surface area
	Industrial parks with 10,000 square feet or more of surface area
	Commercial malls with 10,000 square feet or more of surface area
	Retail gasoline outlets 5,000 square feet or more of surface area
	Restaurants (SIC 5812) with 5,000 square feet or more of surface area
	Parking lots 5,000 square feet or more of impervious surface area, or with 25 or more parking spaces
	Street and road construction of 10,000 square feet or more of impervious surface area shall follow USEPA guidance regarding Managing Wet Weather with Green Infrastructure: Green Streets (December 2008 EPA-833-F-08-009) to the maximum extent practicable. Street and road construction applies to standalone streets, roads, highways, and freeway projects, and also applies to streets within larger projects.
	Automotive service facilities (SIC 5013, 5014, 5541, 7532-7534, 7536-7539) with 5,000 square feet or more of surface area
X	Redevelopment projects in subject categories that meet Redevelopment thresholds identified in MS4 Permit Part VI.D.6.b.ii (Redevelopment Projects) below
	Projects located in or directly adjacent to, or discharging directly to a Significant Ecological Area (SEA), where the development will: (i) Discharge stormwater runoff that is likely to impact a sensitive biological species or habitat; and (ii) Create 2,500 square feet or more of impervious surface area

CHECK BELOW	DESIGNATED PROJECT CATEGORY
	Single-family hillside homes. To the extent that a Permittee may lawfully impose conditions, mitigation measures or other requirements on the development or construction of a single-family home in a hillside area as defined in the applicable Permittee's Code and Ordinances, each Permittee shall require that during the construction of a single-family hillside home, the following measures are implemented: (i) Conserve natural areas (ii) Protect slopes and channels (iii) Provide storm drain system stenciling and signage (iv) Divert roof runoff to vegetated areas before discharge unless the diversion would result in slope instability (v) (v) Direct surface flow to vegetated areas before discharge unless the diversion would result in slope instability.
DESIGNATED PROJECTS – REDEVELOPMENT Redevelopment projects subject to Permittee conditioning and approval for the design and implementation of post-construction controls to mitigate stormwater pollution, prior to completion of the project(s), are:	
X	Redevelopment projects[1] where >50% or more of the impervious surface of a previously developed site is proposed to be altered and the previous development project was not subject to post-construction stormwater quality control measures[2].
	Redevelopment projects[2] where <50% or more of the impervious surface of a previously developed site is proposed to be altered and the previous development project was not subject to post-construction stormwater quality control measures[3].
X	Land-disturbing activity that results in the creation or addition or replacement of 5,000 square feet or more of impervious surface area on an already developed site on development categories identified in MS4 Permit Part VI.D.6.c. (New Development/ Redevelopment Performance Criteria).
X	Where Redevelopment results in an alteration to more than fifty percent of impervious surfaces of a previously existing development, and the existing development was not subject to post-construction stormwater quality control requirements, the entire project must be mitigated.

CHECK BELOW	DESIGNATED PROJECT CATEGORY
	Where Redevelopment results in an alteration of less than fifty percent of impervious surfaces of a previously existing development, and the existing development was not subject to post-construction stormwater quality control requirements, only the alteration must be mitigated, and not the entire development. (i) Redevelopment does not include routine maintenance activities that are conducted to maintain original line and grade, hydraulic capacity, original purpose of facility or emergency redevelopment activity required to protect public health and safety. Impervious surface replacement, such as the reconstruction of parking lots and roadways which does not disturb additional area and maintains the original grade and alignment, is considered a routine maintenance activity. Redevelopment does not include the repaving of existing roads to maintain original line and grade. (ii) Existing single-family dwelling and accessory structures are exempt from the Redevelopment requirements unless such projects create, add, or replace 10,000 square feet of impervious surface area.

Notes:

1 Redevelopment does not include routine maintenance activities that are conducted to maintain original line and grade, hydraulic capacity, original purpose of facility or emergency redevelopment activity required to protect public health and safety. Impervious surface replacement, such as the reconstruction of parking lots and roadways which does not disturb additional area and maintains the original grade and alignment, is considered a routine maintenance activity. Redevelopment does not include the repaving of existing roads to maintain original line and grade.

2 Existing single-family dwelling and accessory structures are exempt from the Redevelopment requirements unless such projects create, add, or replace 10,000 square feet of impervious surface area.

All Designated Projects must retain 100 percent of the SWQDv onsite through infiltration, evapotranspiration, stormwater runoff harvest and use, or a combination thereof unless it is demonstrated that it is technically infeasible to do so. To meet these requirements, Designated Projects must:

- Conduct site assessment and identify design considerations, including determining the feasibility of onsite infiltration;
- Apply site-specific source control measures;
- Calculate the Stormwater Quality Design Volume (SWQDv);
- Implement stormwater quality control measures;
- Implement alternative compliance measures, if necessary;
- Implement hydromodification requirements, if necessary; and
- Develop a Maintenance Plan, if necessary

4.2 LID PERFORMANCE CRITERIA *(LID MANUAL SECTION 6)*

Low Impact Development (LID) BMPs are required in addition to site design measures and source controls to reduce pollutants in stormwater discharges. LID BMPs are engineered facilities that are designed to retain or biotreat runoff on the project site. The Los Angeles County MS4 Stormwater Permit (Order No. R4-2012-0715-A01) requires the evaluation and use of LID features using the following hierarchy of treatment: infiltration, evapotranspiration, harvest/reuse, and biotreatment. Section 5 of this report summarizes the LID BMPs proposed for the project in accordance with the permit hierarchy and performance criteria below.

The design storm, from which the SWQDv is calculated, is defined as the greater of:

- The 0.75-inch, 24-hour rain event; or
- The 85th percentile, 24-hour rain event as determined from the Los Angeles County 85th percentile precipitation isohyetal map.[1]

Per the Los Angeles County 85th percentile precipitation isohyetal map, the 85th percentile, 24-hour storm event is **1.0 inch** (see Appendix 1). BMPs selected for the site shall rely on infiltration, bioretention, rainfall storage and reuse, and/or biofiltration, as feasible.

The table below provides the retention volumes and biotreatment flow rates for the project site under proposed conditions. BMPs selected for the project must be sized to provide the equivalent or greater treatment capacities than the listed volumes/flow-rates below. Calculations were performed utilizing the hydrologic calculator (HydroCalc) developed by the Los Angeles County Department of Public Works. HydroCalc completes the full Modified Rational Method (MODRAT) calculation process and produces the peak stormwater runoff flow rates and volumes for single subareas. Detailed calculations for the proposed treatment control BMPs, based on the HydroCalc tool, are provided in Section 7 and Appendix 1 of this report.

[1] County of Los Angeles Department of Public Works. (2004, February). Analysis of 85th Percentile 24-hour Rainfall Depth Analysis within the County of Los Angeles (February 2004). Retrieved October 8, 2014, from http://ladpw.org/wrd/hydrologygis/

	STORMWATER QUALITY DESIGN VOLUMES (SWQDv) AND FLOW RATES (SWQDf)									
DMA[1]	Drainage Area (ac)	Soil Type	85th Percentile Storm Event[2] (in)	% Impervious	Intensity (in/hr)	Cd	Tc (min)	LID Volume [3] SWQDv (ft^3)	LID Flow Rate [3] SWQDf (cfs)	Filterra Unit Treatment Capacity (cfs)
Lots 1 – Subarea 1C	1.97	002	1.0	42%	0.2458	0.5989	33	3,225	0.29	0.4148
Lot 1 – Subarea 1D	2.49	002	1.0	5%	0.2300	0.3929	38	1,516	0.23	0.3630
Lot 1 – Subarea 1E	1.34	002	1.0	5%	0.2612	0.4203	29	828	0.15	0.1944
Lot 1 – Subarea 1F	3.05	002	1.0	17%	0.2272	0.4514	39	2,847	0.31	0.4667
Lot 1 – Subarea 2C	0.92	002	1.0	55%	0.3109	0.6936	20	1,841	0.20	0.2333
Lot 1 – Subarea 3C	1.15	002	1.0	55%	0.2749	0.6785	26	2,299	0.22	0.2949
Lot 1 – Subarea 4C	2.86	002	1.0	55%	0.2854	0.6829	25	5,720	0.56	0.7260
Lot 1 – Subarea 5C	2.12	002	1.0	12%	0.2531	0.4512	31	1,740	0.24	0.4148
Lot 1 – Subarea 6C	0.76	002	1.0	42%	0.3039	0.6301	21	1,249	0.15	0.2333
Lot 1 – Subarea 7C	1.47	002	1.0	55%	0.3039	0.6906	21	2,941	0.31	0.3630
Lot 1 – Subarea 8C	1.09	002	1.0	55%	0.3039	0.6906	21	2,181	0.23	0.2949
Lot 1 – Subarea 9C	1.01	002	1.0	42%	0.2974	0.6266	22	1,659	0.19	0.2333
Lot 1 – Subarea 10C	1.70	002	1.0	42%	0.2749	0.6145	26	2,789	0.29	0.4148
Lot 1 – Subarea 11C	1.49	002	1.0	42%	0.2749	0.6145	26	2,445	0.25	0.3630

	STORMWATER QUALITY DESIGN VOLUMES (SWQDv) AND FLOW RATES (SWQDf)									
DMA[1]	Drainage Area (ac)	Soil Type	85th Percentile Storm Event[2] (in)	% Impervious	Intensity (in/hr)	Cd	Tc (min)	LID Volume [3] SWQDv (ft^3)	LID Flow Rate [3] SWQDf (cfs)	Filterra Unit Treatment Capacity (cfs)
Lot 1 – Subarea 12C	2.48	002	1.0	49%	0.2800	0.6524	25	4,562	0.45	0.6222
Lot 1 – Subarea 13C	2.98	002	1.0	42%	0.2272	0.5865	39	4,865	0.40	0.5898
Lot 1 – Subarea 14C	4.41	002	1.0	35%	0.2170	0.5326	43	6,322	0.51	0.8847
Lot 1 – Subarea 15C	1.12	002	1.0	42%	0.2912	0.6233	23	1,839	0.20	0.2949
Lot 2 – Subarea 2F	1.78	002	1.0	42%	0.2974	0.6266	22	2,924	0.33	0.4148
Lot 2 – Subarea 3F	1.83	002	1.0	42%	0.2974	0.6266	22	3,006	0.34	0.4148
Lot 2 – Subarea 4F	2.25	002	1.0	42%	0.2800	0.6173	25	3,693	0.39	0.5898
Lot 2 – Subarea 5F	0.17	002	1.0	42%	0.4784	0.7003	8	280	0.06	0.0519
Lot 3 – Subarea 1H	0.65	002	1.0	55%	0.3807	0.7227	13	1,303	0.18	0.2333
Lot 3 – Subarea 2H	2.60	002	1.0	2%	0.1426	0.1697	105	1,151	0.06	0.2333
Lot 3 – Subarea 3H	0.36	002	1.0	55%	0.4119	0.7329	11	722	0.11	0.1556
Lot 3 – Subarea 4H	0.58	002	1.0	55%	0.3808	0.7227	13	1,163	0.16	0.2333
Lot 3 – Subarea 5H	0.57	002	1.0	55%	0.3954	0.7287	12	1,143	0.16	0.2333
Lot 3 – Subarea 6H	0.58	002	1.0	55%	0.4112	0.7329	11	1,143	0.17	0.2333

	STORMWATER QUALITY DESIGN VOLUMES (SWQDv) AND FLOW RATES (SWQDf)									
DMA[1]	Drainage Area (ac)	Soil Type	85th Percentile Storm Event[2] (in)	% Impervious	Intensity (in/hr)	Cd	Tc (min)	LID Volume [3] SWQDv (ft^3)	LID Flow Rate [3] SWQDf (cfs)	Filterra Unit Treatment Capacity (cfs)
Lot 3 – Subarea 7H	0.57	002	1.0	55%	0.4112	0.7329	11	1,143	0.17	0.2333
Lot 3 – Subarea 8H	0.32	002	1.0	55%	0.4307	0.7363	10	642	0.10	0.1167
Lot 3 – Subarea 9H	0.36	002	1.0	55%	0.4112	0.7329	11	722	0.11	0.1556
Lot 3 – Subarea 10H	0.32	002	1.0	55%	0.4112	0.7329	11	641	0.09	0.1167
Lot 5 – Subarea 1A	4.12	002	1.0	27%	0.2359	0.5144	36	5,028	0.50	0.7260
Lot 5 – Subarea 2A	2.64	002	1.0	30%	0.2391	0.5322	35	3,443	0.34	0.5185
Lot 5 – Subarea 3A	1.59	002	1.0	15%	0.2854	0.4900	24	1,427	0.22	0.2949
Lot 5 – Subarea 4A	1.11	002	1.0	27%	0.2974	0.5559	22	1,365	0.18	0.2333
Lot 5 – Subarea 5A	1.79	002	1.0	55%	0.2749	0.6785	26	3,578	0.33	0.4667
Lot 5 – Subarea 6A	2.11	002	1.0	55%	0.2700	0.6765	27	4,218	0.39	0.5185
Lot 5 – Subarea 7A	1.06	002	1.0	42%	0.2701	0.6119	27	1,739	0.18	0.2333
Lot 5 – Subarea 8A	1.54	002	1.0	42%	0.2655	0.6095	28	2,525	0.25	0.3630
Lot 5 – Subarea 9A	3.79	002	1.0	55%	0.2147	0.6431	44	7,537	0.52	0.4667
Lot 5 – Subarea 10A	1.86	002	1.0	9%	0.1967	0.3428	53	1,310	0.13	0.1944
Lot 5 – Subarea 1B	0.52	Subarea 1B in Lot 5 is a self-treating area and contains 100% vegetation coverage								

	STORMWATER QUALITY DESIGN VOLUMES (SWQDv) AND FLOW RATES (SWQDf)									
DMA[1]	Drainage Area (ac)	Soil Type	85th Percentile Storm Event[2] (in)	% Impervious	Intensity (in/hr)	Cd	Tc (min)	LID Volume [3] SWQDv (ft^3)	LID Flow Rate [3] SWQDf (cfs)	Filterra Unit Treatment Capacity (cfs)
	Notes: cfs cubic feet per second ac-ft acre feet DMA Drainage Management Area Tc Time of Concentration Cd Developed Condition Runoff Coefficient SWQDv Stormwater Quality Design Volume SWQDf Stormwater Quality Design Flow Rate 1. Refer to Section 7 LID Plan Exhibits for locations of each DMA. 2. Per County of Los Angeles 85th Percentile Hydrology Map, available at http://ladpw.org/wrd/hydrologygis/ 3. Detailed calculations are provided in Appendix 1.									

5 BEST MANAGEMENT PRACTICES (BMPs)

Project types listed in the table in Section 4.1 are required to incorporate and implement site design, source control, and treatment control BMPs, unless not applicable due to the project characteristics. Site design BMPs help minimize the introduction or generation of potential pollutants from a facility's operations. Source control BMPs are operational practices that reduce potential pollutants at the source and include both structural and routine non-structural practices. Treatment control BMPs remove pollutants of concern from stormwater runoff and must be located and designed appropriately so as to infiltrate, filter, and/or treat the required runoff volume or flow prior to discharging into receiving waters.

5.1 LOW IMPACT DEVELOPMENT BMPS *(LID MANUAL SECTION 7)*

Low Impact Development (LID) BMPs are required in addition to site design measures and source controls to reduce pollutants in stormwater discharges. LID BMPs are engineered facilities that are designed to retain or biotreat runoff on the project site. The Los Angeles County MS4 Stormwater Permit (Order No. R4-2012-0715-A01) requires the evaluation and use of LID features using the following hierarchy of treatment: infiltration, evapotranspiration, harvest/reuse, and biotreatment. The following sections summarize the LID BMPs proposed for the project in accordance with the permit hierarchy and performance criteria outlined in Section 4.2.

Selection of LID features for water quality treatment is based on the pollutants of concern for the specific project site and the BMP's ability to effectively treat those pollutants, in consideration of site conditions and constraints. The MS4 Permit and LID Standards Manual recognize that certain factors may limit infiltration onsite, such as presence of low-infiltrating soils, shallow groundwater, or unstable slope conditions. Similarly, storage and reuse of stormwater runoff may not be suitable for sites where there is insufficient demand to reuse the collected volume of runoff (e.g., no landscape irrigation demand exists for periods longer than 1 week following a first-flush storm event). In these instances, LID biofiltration BMPs with underdrain systems may be designed and used onsite to treat any remaining runoff consistent with permit requirements.

Infiltration BMPs

Infiltration BMPs are LID BMPs that capture, store and infiltrate stormwater runoff. These BMPs are engineered to store a specified volume of water and have no design surface discharge (underdrain or outlet structure) until this volume is exceeded. Examples of infiltration BMPs include infiltration trenches, bioretention without underdrains, drywells, permeable pavement, and underground infiltration galleries.

In accordance with the MS4 Permit and LID Standards Manual, infiltration systems are the first type of BMP improvements. The implementation of infiltration BMPs may be deemed infeasible at a project site due to existing site conditions. Available information regarding site layout and slope, soil type, geotechnical conditions, and local groundwater conditions should be reviewed. In addition, soil infiltration testing is required to be conducted to determine if stormwater infiltration is feasible and to determine the appropriate design parameters for the infiltration BMP(s). If stormwater infiltration is not possible based on project site conditions, the developer shall utilize the next priority BMP (Harvest & Use).

As described in Section 2.4, infiltration is considered not feasible for the project given the anticipated post-graded condition of compacted artificial fill overlying dense bedrock materials. The Geotechnical Investigation Report is included in Appendix 7.

Stormwater Capture & Use BMPs

Storage and Use BMPs include several types of systems that collect and temporarily store stormwater runoff for future reuse onsite as irrigation water or other non-potable domestic sources. With use of these BMPs, all of the SWQDv is collected and, as necessary, treated for onsite for reuse. Storage facilities include above-ground or below-ground cisterns, rain barrels, and other storage tanks and detention systems. Examples of uses for harvested water include irrigation for landscaping, toilet and urinal flushing, vehicle washing, evaporative cooling, industrial processes and other non-potable uses.

Similar to infiltration BMPs, there are several restrictions and site constraints that may limit the use of harvesting and reuse of stormwater. Limitations include if use would violate existing codes or ordinances, such as for those that overlap with use of reclaimed water or xeriscaping, if the demands of the project are not supported by the reuse system, and if it conflicts with any other downstream water rights or poses a significant risk to human health or environmental degradation.

Per the Irrigation Master Plan provided in Appendix 1, recycled water is available and will be used for irrigation demands in Lots 1 – 5. Further, Lots 4 and 6 will not be developed for this project. As such, harvest and reuse was not evaluated as a treatment option for this project.

Biotreatment BMPs

Biotreatment BMPs are a broad class of LID BMPs that reduce stormwater volume to the maximum extent practicable, treat stormwater using a suite of treatment mechanisms characteristic of biologically active systems, and discharge water to the downstream storm drain system or directly to receiving waters. Treatment mechanisms include media filtration (though biologically-active media), vegetative filtration (straining, sedimentation, interception, and stabilization of particles resulting from shallow flow through vegetation), general sorption processes (i.e., absorption, adsorption, ion-exchange, precipitation, surface complexation), biologically-mediated transformations, and other processes to address both suspended and dissolved constituents. Examples of biotreatment BMPs include bioretention with underdrains, vegetated swales, constructed wetlands, and proprietary biotreatment systems.

Biofiltration areas are typically sized according to LA County LID Standards Manual Appendix E, where 1.5 times the SWQDv that is not reliably retained on the project site must be completely filtered within 96 hours. If the incoming stormwater runoff flow rate is lower than the long-term filtration rate, additional storage does not need to be provided. If the incoming stormwater runoff flow rate is higher than the long-term filtration rate, additional storage shall be provided. In addition, bioretention and biofiltration systems typically must meet the design specifications provided in Attachment H of the LA County MS4 Permit (Order No. R4-2012-0715-A01).

For a typical non-proprietary biofiltration system, the finished slope of the bottom of the BMP must be less than 2%. For lots 1 & 2, 2% of the common area landscaping available for potential treatment systems has a slope of 2% or less. For Lot 3, 0-1% of the common area landscaping has a slope of 2% or less. As such, the areas available for proposed LID BMPs were not considered suitable for non-

proprietary biofiltration BMPs due to space constraints and proprietary Filterra biofiltration units were evaluated instead.

In October 2017, the Los Angeles Regional Board approved the use of Filterra units as an alternative on-site biofiltration BMP pursuant to Part VI.D.7.c.iii(1)(b)(i) of the Los Angeles County MS4 Permit, provided the conditions identified in the letter are met (a copy of the approval letter is included in Appendix 1). Filterra units are structural media filtration devices that also utilize bioretention processes for stormwater treatment. Filterra units feature a specially designed media filter mixture within a concrete box. One or two trees or large shrubs are planted within the media to provide additional pollutant removal, and function similar to traditional bioretention cells. The filter media is designed to capture and filter pollutants during the first-flush storm event, while biological processes degrade, metabolize, detoxify, and volatilize the pollutants during and between storms.
Runoff from Lots 1 & 2 will discharge to 28 in-ground Filterra units located upstream of each catch basin for biotreatment consistent with the methodology of the approval letter referenced above. The Filterra unit sizes range from 4'x4' to 8'x18'. High flows will bypass the Filterra units and enter the downstream catch basin to be conveyed to the proposed detention tank. Treated runoff will be collected via the 6" perforated PVC underdrain and conveyed to the adjacent catch basin and proposed storm drain system.

Runoff from each DMA within Lot 3 will discharge to 10 Filterra units located within the landscaped area between the proposed Right-of-Way for Walnut Drive and the proposed site retaining wall. The Filterra unit sizes range from 6'x6' to 6'x12'. Runoff will be collected via proposed curb and gutter and area drain systems and will discharge directly into the Filterra units. High flows will bypass the Filterra units and enter the proposed storm drain line adjacent to the units to be conveyed to the proposed detention tank. Treated runoff will be collected via the 6" perforated PVC underdrain and conveyed to the proposed storm drain system.

Runoff from each DMA within Lot 5 will discharge to 11 in-ground Filterra units located upstream of each catch basin. The Filterra units range in size from6'x10' to 8'x20'. High flows will bypass the Filterra units and enter the downstream catch basins to be conveyed to the proposed detention tank. Treated runoff will be collected via the 6" perforated PVC underdrain and conveyed to the adjacent catch basin and proposed storm drain system. DMA 1B within Lot 5 will not be disturbed during construction and does not comingle with other project flows. As such, treatment will not be provided for DMA 1B.

Calculations and typical details for the Filterra units are included in Section 7 and Appendix 1. A summary of Filterra units is below.

FLOW-BASED PROPRIETARY BIOFILTRATION SUMMARY						
Lot Number	**DMA/ Drainage Area ID**	**BMP**	**Tributary Area (SF)**	**Filterra Treatment Flow Rate Required (cfs)**	**Filterra Size/Model (')**	**Filterra Unit Treatment Capacity (cfs)**
Lot 1	1C	Proprietary Biofiltration	1.97	0.396	8x16 / 16x8	0.4148
Lot 1	1D	Proprietary Biofiltration	2.49	0.328	8x14 / 14x8	0.3630

Lot 1	1E	Proprietary Biofiltration	1.34	0.189	6x10 / 10x6	0.1944
Lot 1	1F	Proprietary Biofiltration	3.03	0.460	8x18 / 18x8	0.4667
Lot 1	2C	Proprietary Biofiltration	0.92	0.198	6x12 / 12x6	0.2333
Lot 1	3C	Proprietary Biofiltration	1.15	0.269	7x13 / 13x7	0.2949
Lot 1	4C	Proprietary Biofiltration	2.86	0.692	8x14 / 14x8 (2 units)	0.7260
Lot 1	5C	Proprietary Biofiltration	2.12	0.330	8x16 / 16x8	0.4148
Lot 1	6C	Proprietary Biofiltration	0.76	0.203	6x12 / 12x6	0.2333
Lot 1	7C	Proprietary Biofiltration	1.47	0.361	8x14 / 14x8	0.3630
Lot 1	8C	Proprietary Biofiltration	1.09	0.267	7x13 / 13x7	0.2949
Lot 1	9C	Proprietary Biofiltration	1.01	0.226	6x12 / 12x6	0.2333
Lot 1	10C	Proprietary Biofiltration	1.70	0.362	8x16 / 16x8	0.4148
Lot 1	11C	Proprietary Biofiltration	1.49	0.317	8x14 / 14x8	0.3630
Lot 1	12C	Proprietary Biofiltration	2.48	0.558	8x12 / 12x8 (2 units)	0.6222
Lot 1	13C	Proprietary Biofiltration	2.98	0.586	7x13 / 13x7 (2 units)	0.5898
Lot 1	14C	Proprietary Biofiltration	4.41	0.790	7x13 / 13x7 (3 units)	0.8847
Lot 1	15C	Proprietary Biofiltration	1.12	0.249	7x13 / 13x7	0.2949
Lot 2	2F	Proprietary Biofiltration	1.78	0.396	8x16 / 16x8	0.4148
Lot 2	3F	Proprietary Biofiltration	1.83	0.407	8x16 / 16x8	0.4148
Lot 2	4F	Proprietary Biofiltration	2.25	0.494	7x13 / 13x7 (2 units)	0.5898
Lot 2	5F	Proprietary Biofiltration	0.17	0.050	4x4	0.0519
Lot 3	1H	Proprietary Biofiltration	0.65	0.186	6x12 / 12x6	0.2333
Lot 3	2H	Proprietary Biofiltration	2.60	0.149	6x12 / 12x6	0.2333
Lot 3	3H	Proprietary Biofiltration	0.36	0.105	6x8 / 8x6	0.1556
Lot 3	4H	Proprietary Biofiltration	0.58	0.168	6x12 / 12x6	0.2333
Lot 3	5H	Proprietary Biofiltration	0.57	0.169	6x12 / 12x6	0.2333
Lot 3	6H	Proprietary Biofiltration	0.57	0.169	6x12 / 12x6	0.2333

Lot 3	7H	Proprietary Biofiltration	0.57	0.169	6x12 / 12x6	0.2333
Lot 3	8H	Proprietary Biofiltration	0.32	0.097	6x6	0.1167
Lot 3	9H	Proprietary Biofiltration	0.36	0.109	6x8 / 8x6	0.1556
Lot 3	10H	Proprietary Biofiltration	0.32	0.095	6x6	0.1167
Lot 5	1A	Proprietary Biofiltration	4.12	0.712	8x14 / 14x8 (2 units)	0.7260
Lot 5	2A	Proprietary Biofiltration	2.64	0.472	8x20 / 20x8	0.5185
Lot 5	3A	Proprietary Biofiltration	1.59	0.236	7x13 / 13x7	0.2949
Lot 5	4A	Proprietary Biofiltration	1.11	0.220	6x12 / 12x6	0.2333
Lot 5	5A	Proprietary Biofiltration	1.70	0.421	8x18 / 18x8	0.4667
Lot 5	6A	Proprietary Biofiltration	2.11	0.482	20x8 / 8x20	0.5185
Lot 5	7A	Proprietary Biofiltration	1.06	0.224	6x12 / 12x6	0.2333
Lot 5	8A	Proprietary Biofiltration	1.54	0.341	8x14 / 14x8	0.3630
Lot 5	9A	Proprietary Biofiltration	3.79	0.433	8x18 / 18x8	0.4667
Lot 5	10A	Proprietary Biofiltration	1.86	0.184	6x10 / 10x6	0.1944
Lot 5	1B	Subarea 1B in Lot 5 is a self-treating area and contains 100% vegetation coverage				

5.2 TREATMENT CONTROL BMPS

If partial or complete onsite compliance of any type is technically infeasible, the project may utilize a mechanical/hydrodynamic unit for water quality treatment. Treatment control BMPs are structures designed to treat pollutants in stormwater runoff and release the treated runoff to surface waters or a storm drain system, but is not a biotreatment BMP. Any remaining runoff that cannot feasibly be managed onsite must be mitigated under the offsite mitigation plan. Treatment control BMPs were not evaluated for this project.

5.3 SITE DESIGN PRINCIPLES *(LID MANUAL SECTION 4)*

The following section describes the site design BMPs used in this project and the methods used to incorporate them. Careful consideration of site design is a critical first step in stormwater pollution prevention from new developments and redevelopments. Site design can protect sensitive environmental features such as riparian areas, wetlands, and steep slopes. The intention of site design principles is to reduce stormwater runoff peak flows and volumes and other impacts associated with land development. Site design principles described in the following sections are required for all projects unless the project

applicant demonstrates that particular principles are not applicable to the proposed project, or the project site conditions make it infeasible to implement the site design principle in question.

SITE DESIGN MEASURES			
MEASURE	**YES**	**N/A**	**DESCRIPTION**
Site Planning	☒	☐	Proper site design and BMPs will be applied throughout the planning process to reduce impacts associated with land development.
Protection & Restoration of Natural Areas	☐	☒	The project site is fully developed as a golf course under existing conditions. There are no existing natural areas to protect. The project will include approximately 26.31 acres of open space, consisting of open space buffers adjacent to all existing residential land uses and two public park areas.
Minimization of Land Disturbance	☒	☐	Landscaping throughout the project site will be utilized to reduce the stormwater runoff peak flows to minimize land disturbances.
Minimization of Impervious Cover	☒	☐	Building development is laid out as clustered neighborhoods with surrounding open space and park areas.

5.4 SOURCE CONTROL MEASURES *(LID MANUAL SECTION 5)*

Source control measures are designed to prevent pollutants from contacting stormwater runoff or prevent discharge of contaminated stormwater runoff to the storm drain system and/or receiving water. Source control measures should be implemented to the maximum extent practicable to mitigate pollutant mobilization from the project site in stormwater and non-stormwater runoff. A summary of the source control measures that should be implemented for each type of project is summarized in the following table.

SOURCE CONTROL MEASURES SELECTION MATRIX											
PROJECT CATEGORY	Storm Drain Message & Signage (S-1)	Outdoor Material Storage Area (S-2)	Outdoor Trash Storage/Waste Handling Area (S-3)	Outdoor Loading/Unloading Dock Area (S-3)	Outdoor Vehicle/Equipment/ Repair/Maintenance Area (S-5)	Outdoor Vehicle/Equipment/ Accessory Wash Area (S-6)	Fuel & Maintenance Area (S-7)	Landscape Irrigation Practices (S-8)	Building Materials (S-9)	Animal Care & Handling Facilities (S-10)	Outdoor Horticulture Areas (S-11)
Designated Projects – New Development											
Development ≥1acre AND ≥10,000 ft² new impervious area	R	R[1]	R[1]	R[1]	R[1]	R[1]	R[1]	R	R	R[1]	R[1]
Industrial parks (≥10,000 ft²)	R	R[1]	R[1]	R[1]	R[1]	R[1]	R[1]	R	R	--	--
Commercial malls (≥10,000 ft²)	R	R[1]	R[1]	R[1]	R[1]	R[1]	R[1]	R	R	R[1]	R[1]
Retail gas outlets (5,000 ft²)	R	R[1]	R[1]	R[1]	R[1]	R[1]	R[1]	R	R	--	--
Restaurants (≥5,000 ft²)	R	R[1]	R[1]	R[1]	--	--	--	R	R	--	--
Parking lots (≥5,000 ft² or ≥25 parking spaces)	R	R[1]	R[1]	R[1]	--	--	--	R	R	R[1]	R[1]
Automotive service facilities (≥5,000 ft²)	R	R[1]	R[1]	R[1]	R[1]	R[1]	R[1]	R	R	--	--
Projects in/around Significant Ecologic Areas	R	R[1]	R[1]	R[1]	R[1]	R[1]	R[1]	R	R	R[1]	R[1]
Projects potentially impacting sensitive biological species or habitats	R	R[1]	R[1]	R[1]	R[1]	R[1]	R[1]	R	R	R[1]	R[1]
Projects adding ≥2,500 ft² of impervious area	R	R[1]	R[1]	R[1]	R[1]	R[1]	R[1]	R	R	R[1]	R[1]
Designated Projects – Redevelopment											
Projects creating or adding ≥5,000 ft²	R	R[1]	R[1]	R[1]	R[1]	R[1]	R[1]	R	R	R[1]	R[1]
Projects altering existing impervious surface	R	R[1]	R[1]	R[1]	R[1]	R[1]	R[1]	R	R	R[1]	R[1]
Non-Designated Projects											
Small-Scale Residential Projects	R	R[1]	R[2]	--	--	--	--	R	R	--	--
Large-Scale Projects	R	R[1]	R[1]	R[1]	R[1]	R[1]	R[1]	R	R	R[1]	R[1]

Notes:
R = required; R[1] = required if outdoor activity area is included in project; R[2] = required for multi-family dwellings
Refer to LA County Low Impact Development Standards Manual Appendix D for description of each measure's design specification.
Source: County of Los Angeles (LA County) Department of Public Works Low Impact Development Standards Manual. February 2014.

Source control measures are required under the current MS4 permit to be incorporated in all new development and redevelopment projects unless not applicable. The table below indicates all measures to be incorporated in the project. For those designated as not applicable (N/A), a brief explanation why is provided.

SOURCE CONTROL MEASURES			
MEASURE	**YES**	**N/A**	**DESCRIPTION**
Storm Drain Message & Signage (S-1)	☒	☐	The phrase "No Dumping – Only Rain In Drain" or equally effective phrase will be stenciled on new catch basins and/or area drains to alert the public as to the destination of pollutants discharged into the stormwater.
Outdoor Material Storage Area (S-2)	☐	☒	No Outdoor Material Storage Areas are proposed.
Outdoor Trash Storage/Waste Handling Area (S-3)	☒	☐	Any future proposed trash enclosures will be walled and designed to preclude runoff. Drainage will be plumbed to sewer system. Trash containers will be fully enclosed and not come into contact with runoff.
Outdoor Loading/Unloading Dock Area (S-3)	☐	☒	No such features are proposed. Any outdoor loading/unloading dock areas associated with the commercial/ retail center associated with the project shall be addressed and covered by either (1) a future separate project LID Plan, or (2) a future amendment to this LID Plan.
Outdoor Vehicle/Equipment/ Repair/Maintenance Area (S-5)	☐	☒	No Outdoor Vehicle Equipment Repair is planned for this site.
Outdoor Vehicle/Equipment/ Accessory Wash Area (S-6)	☐	☒	No Outdoor Vehicle Equipment Accessory wash areas are planned for this site.
Fuel & Maintenance Area (S-7)	☐	☒	No Fuel & Maintenance Areas are proposed.
Landscape Irrigation Practices (S-8)	☒	☐	Fertilizer use will be minimized and landscaping will have sufficient dispersal capacity to prevent irrigation runoff from draining directly to storm drain system.

SOURCE CONTROL MEASURES			
MEASURE	YES	N/A	DESCRIPTION
Building Materials (S-9)	☒	☐	Where feasible, alternative building materials shall be utilized to minimize potential pollutant sources of metals and other contaminates that can leach into stormwater runoff.
Animal Care & Handling Facilities (S-10)	☐	☒	No Animal Care & Handling Facilities are proposed.
Outdoor Horticulture Areas (S-11)	☐	☒	No Outdoor Horticulture Areas are proposed.

The following source control BMP fact sheets are provided in Appendix 5 of this report as a reference to the design plans and/or specifications for the Tesoro Project:

Source: http://www.cabmphandbooks.com/Documents/Development

- S-1 Storm Drain Message and Signage
- S-3 Outdoor Trash Storage and Waste Handling Area
- S-8 Landscape Irrigation Practices
- S-9 Building Materials Selection
- SD-10 Site Design & Landscape Planning
- SD-12 Efficient Irrigation

6 BMP OPERATIONS & MAINTENANCE *(LID Manual Section 9)*

It has been determined that the Owner/Developer, Project Dimensions, Inc., shall assume all BMP inspection and maintenance responsibilities for the Royal Vista Residential Project until an HOA is formed. The County of Los Angeles shall be responsible for all public catch basins, storm drains and public streets associated with the project. A Master Covenant and Agreement regarding onsite stormwater treatment devices maintenance shall be completed prior to completion (see Appendix X).

CONTACT NAME:	Jon Conk
TITLE:	Owner/Developer
COMPANY:	Project Dimensions, Inc.
ADDRESS:	4 Park Plaza, Suite 700, Irvine, CA 92614
TELEPHONE:	949-476-2246

Proper O&M is an important element of a stormwater mitigation plan to ensure BMPs remove pollution effectively. Routine maintenance or service also contributes to the efficiency and continuous operation of a system. The post development BMP maintenance responsibility and frequency matrix provided in this section detail the specific party to perform the inspection and maintenance of each BMP for the Tesoro Project and details the maintenance and inspection activities to be performed, and the frequency with which each shall be performed. Further Operations and Maintenance details and associated record-keeping forms can be found in Appendix 4.

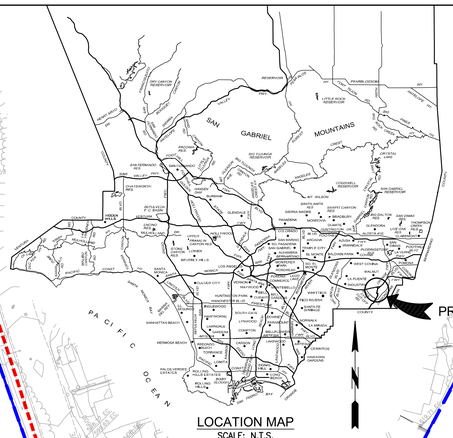
BMP OPERATIONS & MAINTENANCE		
Structural BMP	**Responsible Party**	**Maintenance Activity & Frequency**
Storm Drain Message & Signage (S-1)	Public: LACFCD Private: Owner/HOA	Storm drain stencils shall be inspected for legibility, at minimum, once prior to the storm season, no later than October 1st each year. Those determined to be illegible will be re-stenciled as soon as possible. Minimum Frequency: ANNUALLY
Outdoor Trash Storage/Waste Handling Area (S-3)	Owner / HOA	Sweep trash area at least once per week and before October 1st each year. Maintain area clean of trash and debris at all times. Minimum Frequency: WEEKLY

BMP OPERATIONS & MAINTENANCE		
Structural BMP	**Responsible Party**	**Maintenance Activity & Frequency**
Streets & Parking Lot Sweeping	Private: Owner/HOA	Streets and parking areas within the project shall be swept at a minimum frequency quarterly as well as once per year prior to the storm season, no later than October 1st each year. Minimum Frequency: QUARTERLY
(T-G) Proprietary Biotreatment: Filterra	Owner/HOA	The Filterra units shall be maintained in accordance with manufacturer's specification. The annual maintenance consists of a minimum of two scheduled visits, one after the rainy season to clean up after the wet season, and one before the wet season to inspect and clean the unit. Each maintenance visit consists of the following: • Inspection; • Removal of trash, debris, sediment; • Filter media and plant health evaluation and replacement if necessary; • Replacement of mulch. Minimum Frequency: TWICE PER YEAR

Additional information and forms for structural BMP maintenance are included in Appendix 4.

7 EXHIBITS

- Lots 1- 3 LID Exhibit
- Lot 5 LID Exhibit



TIERRA LUNA

TIERRA SIESTA

WALNUT DR

COLIMA ROAD

BELLA VISTA

LANDSCAPED FLOW TRAVELS TO PUBLIC CULVERT

LANDSCAPED FLOW TRAVELS TO OFFSITE CULVERT

OFFSITE FLOW ONTO PROJECT SITE JOIN PROPOSED PUBLIC STORM DRAIN

OFFSITE FLOW ONTO PROJECT SITE JOIN PROPOSED PUBLIC STORM DRAIN

OFFSITE FLOW ONTO PROJECT SITE JOIN PROPOSED PUBLIC STORM DRAIN

JOIN PROPOSED PUBLIC STORM DRAIN TO EXISTING PUBLIC STORM DRAIN

48" RCP STORM DRAIN LA COUNTY (PD1266)

30" RCP STORM DRAIN LA COUNTY (PD1266)

24" RCP STORM DRAIN LA COUNTY (PD1440)

42" RCP STORM DRAIN LA COUNTY (PD2377)

72" RCP STORM DRAIN LA COUNTY (PD2192)

1H 0.65 | 2H 2.6 | 3H 0.36 | 4H 0.58 | 5H 0.57 | 6H 0.57 | 7H 0.57 | 8H 0.32 | 9H 0.36 | 10H 0.32

1C 2.0 | 1D 2.5 | 1E 1.3 | 1F 3.0 | 1G 0.3 | 1J 10.2 | 2C 0.9 | 2F 1.8 | 3C 3.0 | 3F 1.8 | 4C 2.9 | 4F 2.2 | 5C.1 0.7 | 5C.2 1.4 | 5F 0.2 | 6C 0.8 | 7C 1.5 | 8C 1.1 | 9C 1.0 | 10C 1.7 | 11C 1.5 | 12C 2.5 | 13C 1.1 | 14C 4.4 | 15C 1.1

LID BMP SIZING SUMMARY

DMA	TRIBUTARY AREA (AC)	% IMPERVIOUS	FILTERRA TREATMENT FLOW RATE REQUIRED (CFS)	FILTERRA MODEL	FILTERRA TREATMENT CAPACITY (CFS)	SWQDf (CFS)	SWQDV VOLUME (CF)
1C	1.97	42%	0.396	8X16	0.4148	0.29	3225
1D	2.49	5%	0.328	8X14	0.3630	0.23	1516
1E	1.34	5%	0.189	6X10	0.1944	0.15	828
1F	3.03	17%	0.460	8X18	0.4667	0.31	2847
2C	0.92	55%	0.232	6X12	0.2333	0.20	1841
3C	1.15	55%	0.269	7X13	0.2949	0.22	2299
4C	2.86	55%	0.692	8X14 (2 UNITS)	0.7260	0.56	5720
5C	2.12	12%	0.330	8X16	0.4148	0.24	1740
6C	0.76	42%	0.203	6X12	0.2333	0.15	1249
7C	1.47	55%	0.361	8X14	0.3630	0.31	2941
8C	1.09	55%	0.267	7X13	0.2949	0.23	2181

LID BMP SIZING SUMMARY CONTINUED

DMA	TRIBUTARY AREA (AC)	% IMPERVIOUS	FILTERRA TREATMENT FLOW RATE REQUIRED (CFS)	FILTERRA MODEL	FILTERRA TREATMENT CAPACITY (CFS)	SWQDf (CFS)	SWQDV VOLUME (CF)
9C	1.01	42%	0.226	6X12	0.2333	0.1900	1659
10C	1.70	42%	0.362	8x16	0.4148	0.29	2789
11C	1.49	42%	0.317	8x14	0.3630	0.25	2445
12C	2.48	49%	0.558	8X12 (2 UNITS)	0.6222	0.45	4562
13C	2.98	42%	0.586	7X13 (2 UNITS)	0.5898	0.40	4865
14C	4.41	35%	0.790	7X13 (3 UNITS)	0.8847	0.51	6322
15C	1.12	42%	0.249	7X13	0.2949	0.20	1839
2F	1.78	42%	0.396	8X16	0.4148	0.33	2424
3F	1.83	42%	0.407	8X16	0.4148	0.34	3006
4F	2.25	42%	0.494	7X13 (2 UNITS)	0.5898	0.39	3693
5F	0.17	42%	0.050	4X4	0.0519	0.06	280
1H	0.65	55%	0.186	6X12	0.2333	0.18	1303
2H	2.60	2%	0.149	6X12	0.2333	0.06	1151
3H	0.36	55%	0.105	6X8	0.1556	0.11	722
4H	0.58	55%	0.168	6X12	0.2333	0.16	1163
5H	0.57	55%	0.169	6X12	0.2333	0.16	1143
6H	0.57	55%	0.169	6X12	0.2333	0.17	1143
7H	0.57	55%	0.169	6X12	0.2333	0.17	1143
8H	0.32	55%	0.097	6X6	0.1167	0.10	642
9H	0.36	55%	0.109	6X8	0.1556	0.11	722
10H	0.32	55%	0.095	6X6	0.1167	0.09	641

LEGEND

- PROPERTY LINE / RIGHT-OF-WAY-LINE
- PROPOSED PRIVATE STORM DRAIN
- PROPOSED PUBLIC STORM DRAIN
- EXISTING PUBLIC STORM DRAIN
- DRAINAGE SUBAREAS
- OFFSITE SHEET FLOW ONTO PROJECT SITE
- FLOW PATH
- DRAINAGE AREA ID (G7 / 6.2)
- ACREAGE
- RCP — REINFORCED CONCRETE PIPE
- CFS — CUBIC FEET PER SECOND
- PROPOSED FILTERRA UNIT
- CATCH BASIN / STORM DRAIN SIGNAGE
- PROPOSED DETENTION TANK

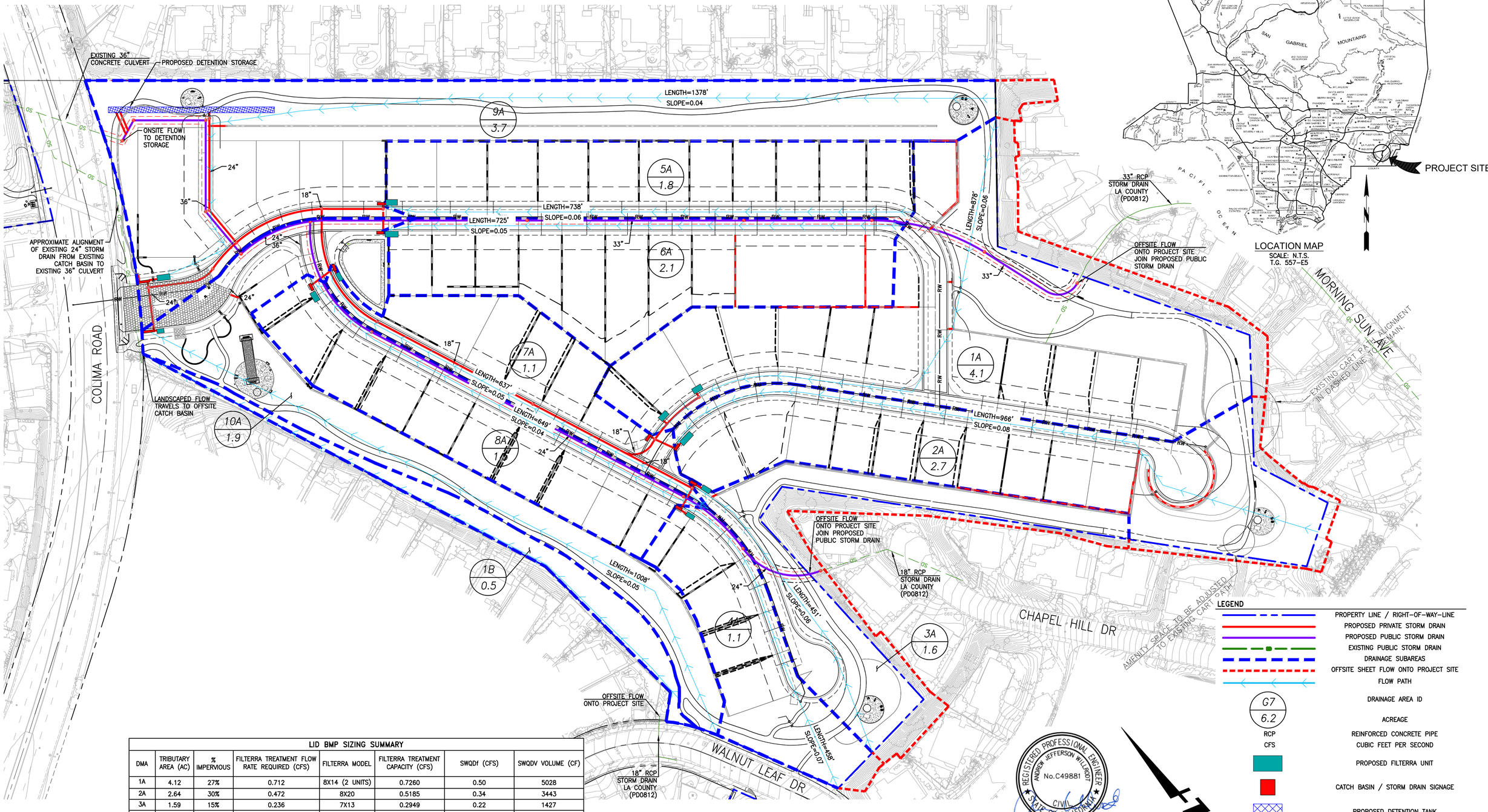
REGISTERED PROFESSIONAL ENGINEER
ANDREW JEFFERSON WILLDOO
No.C49881
CIVIL
STATE OF CALIFORNIA

60' 0' 20' 40' 60' 120'
SCALE: 1" = 60'

LID EXHIBIT
ROYAL VISTA RESIDENTIAL
PROJECT - LOT 1, 2, & 3

FUSCOE ENGINEERING
16795 Von Karman, Suite 100
Irvine, California 92606
tel 949.474.1960 • fax 949.474.5315
www.fuscoe.com

P:\PROJECTS\2021\21-0000-2021\21-0000-2021 - LOT 1-3 LID EXHIBIT.DWG 10/15/2021 1:25:51 PM by awilliams



LID BMP SIZING SUMMARY							
DMA	TRIBUTARY AREA (AC)	% IMPERVIOUS	FILTERRA TREATMENT FLOW RATE REQUIRED (CFS)	FILTERRA MODEL	FILTERRA TREATMENT CAPACITY (CFS)	SWQDf (CFS)	SWQDV VOLUME (CF)
1A	4.12	27%	0.712	8X14 (2 UNITS)	0.7260	0.50	5028
2A	2.64	30%	0.472	8X20	0.5185	0.34	3443
3A	1.59	15%	0.236	7X13	0.2949	0.22	1427
4A	1.11	27%	0.220	6X12	0.2333	0.18	1365
5A	1.70	55%	0.421	8X18	0.4667	0.33	3578
6A	2.11	55%	0.482	8X20	0.5185	0.39	4218
7A	1.06	42%	0.224	6X12	0.2333	0.18	1739
8A	1.54	42%	0.325	8X14	0.3630	0.25	2525
9A	3.79	55%	0.433	8X18	0.4667	0.52	7537
10A	1.86	9%	0.184	6X10	0.1944	0.13	1310

FUSCOE ENGINEERING
16795 Von Karman, Suite 100
Irvine, California 92606
tel 949.474.1960 ◦ fax 949.474.5315
www.fuscoe.com

LID EXHIBIT
ROYAL VISTA RESIDENTIAL PROJECT - LOT 5

P:\PROJECTS\5601\04\LD\EXHIBITS\5601-04MH - LOT 5 LID EXHIBIT.DWG [02-16-2023 11:52:59AM] Plotted by: mstephens

8 APPENDICES

Appendix 1 LID BMP Sizing Calculations & Details

Appendix 2 Proposed Hydrology Maps

Appendix 3 Master Covenant and Agreement

Appendix 4 BMP Operations & Maintenance Plan Supplement

Appendix 5 Source Control BMP Fact Sheets

Appendix 6 Public Education Materials

Appendix 7 Soils/Geotechnical Report

APPENDIX 1

LID BMP Sizing Calculations & BMP Details

Peak Flow Hydrologic Analysis

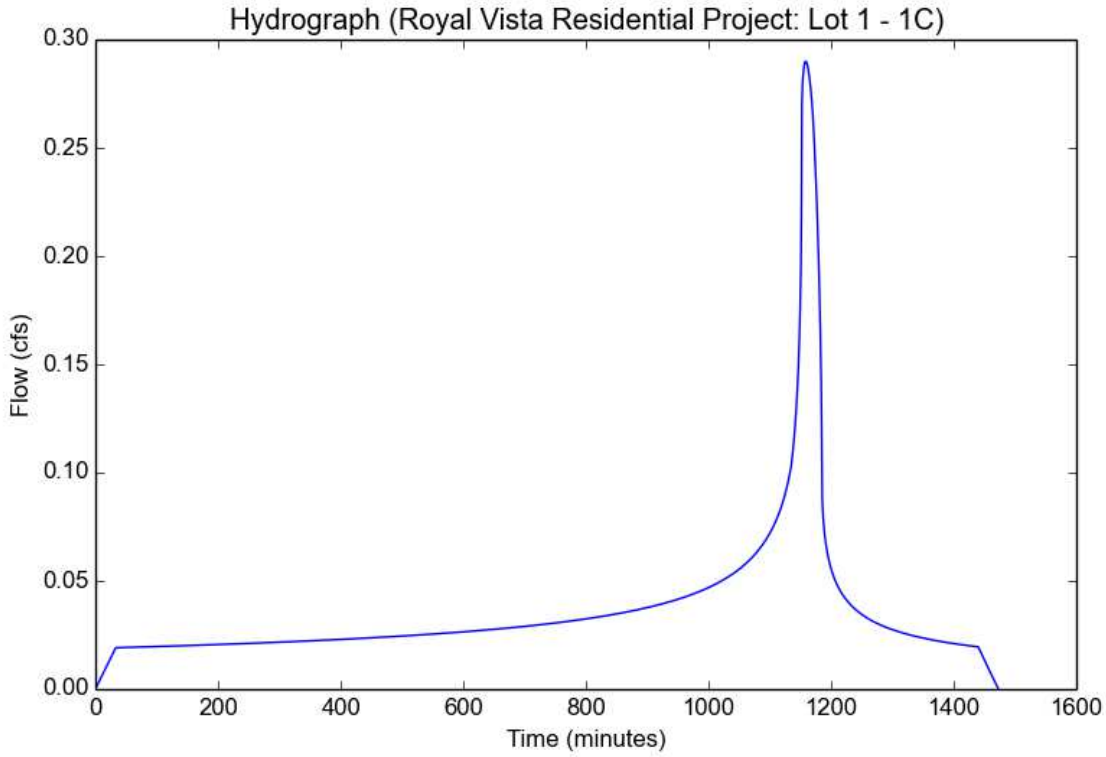
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 1/Royal Vista Golf Club Hydrocalc - Lots 1&2 - 85th Percentile_2021-07-07.p
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 1 - 1C
Area (ac)	1.97
Flow Path Length (ft)	676.73
Flow Path Slope (vft/hft)	0.02
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.42
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.2458
Undeveloped Runoff Coefficient (Cu)	0.3808
Developed Runoff Coefficient (Cd)	0.5989
Time of Concentration (min)	33.0
Clear Peak Flow Rate (cfs)	0.29
Burned Peak Flow Rate (cfs)	0.29
24-Hr Clear Runoff Volume (ac-ft)	0.074
24-Hr Clear Runoff Volume (cu-ft)	3225.4306



Peak Flow Hydrologic Analysis

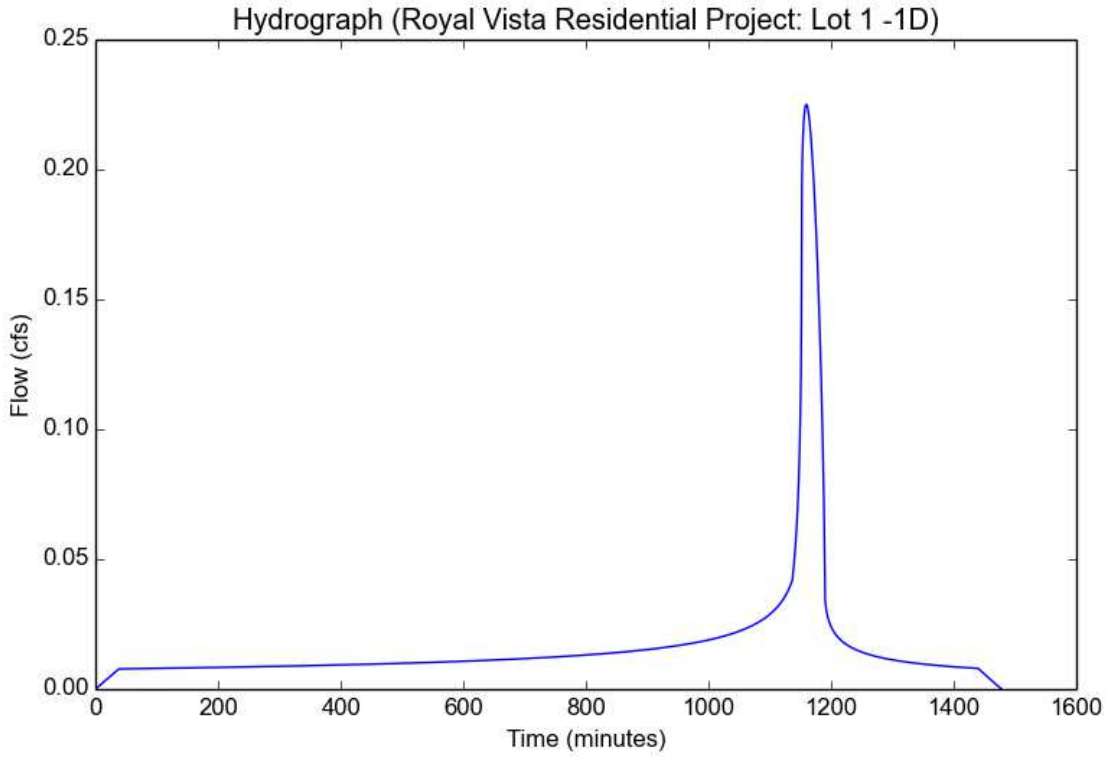
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 1/Royal Vista Golf Club Hydrocalc - Lots 1&2 - 85th Percentile_2021-07-07.p
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 1 -1D
Area (ac)	2.49
Flow Path Length (ft)	789.52
Flow Path Slope (vft/hft)	0.08
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.05
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.23
Undeveloped Runoff Coefficient (Cu)	0.3662
Developed Runoff Coefficient (Cd)	0.3929
Time of Concentration (min)	38.0
Clear Peak Flow Rate (cfs)	0.225
Burned Peak Flow Rate (cfs)	0.225
24-Hr Clear Runoff Volume (ac-ft)	0.0348
24-Hr Clear Runoff Volume (cu-ft)	1515.9436



Peak Flow Hydrologic Analysis

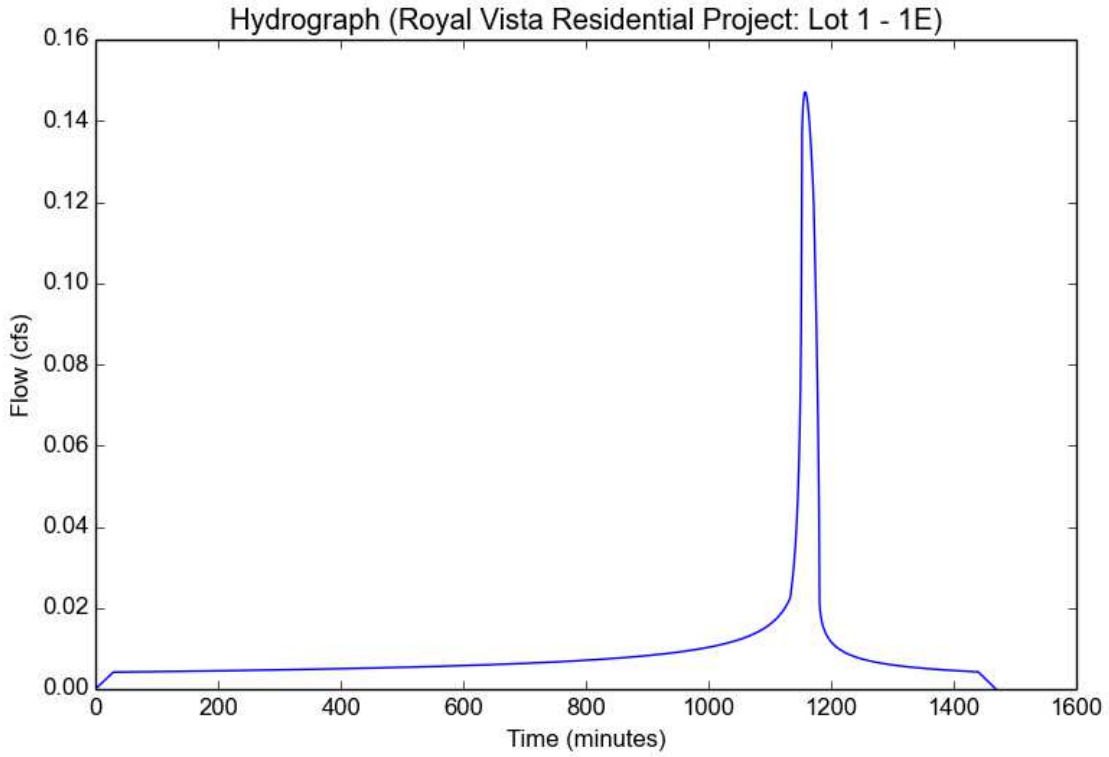
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 1/Royal Vista Golf Club Hydrocalc - Lots 1&2 - 85th Percentile_2021-07-07.p
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 1 - 1E
Area (ac)	1.34
Flow Path Length (ft)	530.78
Flow Path Slope (vft/hft)	0.07
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.05
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.2612
Undeveloped Runoff Coefficient (Cu)	0.3951
Developed Runoff Coefficient (Cd)	0.4203
Time of Concentration (min)	29.0
Clear Peak Flow Rate (cfs)	0.1471
Burned Peak Flow Rate (cfs)	0.1471
24-Hr Clear Runoff Volume (ac-ft)	0.019
24-Hr Clear Runoff Volume (cu-ft)	828.3584



Peak Flow Hydrologic Analysis

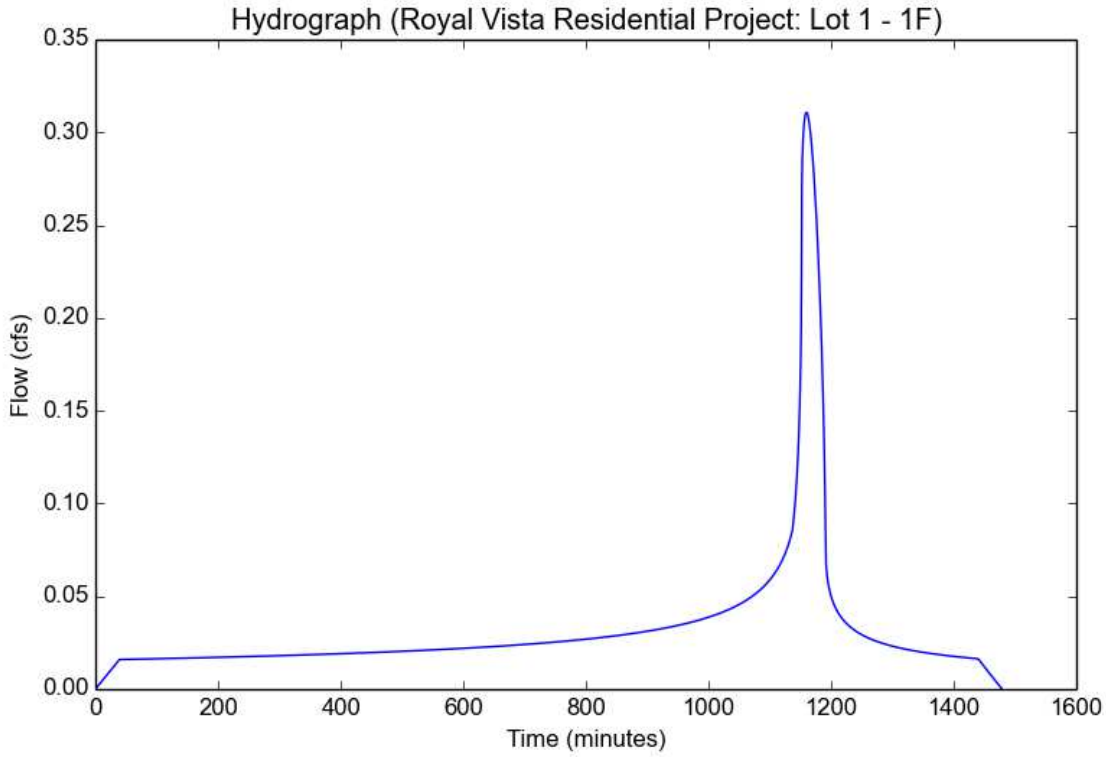
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 1/Royal Vista Golf Club Hydrocalc - Lots 1&2 - 85th Percentile_2021-07-07.p
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 1 - 1F
Area (ac)	3.03
Flow Path Length (ft)	917.27
Flow Path Slope (vft/hft)	0.07
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.17
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.2272
Undeveloped Runoff Coefficient (Cu)	0.3595
Developed Runoff Coefficient (Cd)	0.4514
Time of Concentration (min)	39.0
Clear Peak Flow Rate (cfs)	0.3107
Burned Peak Flow Rate (cfs)	0.3107
24-Hr Clear Runoff Volume (ac-ft)	0.0654
24-Hr Clear Runoff Volume (cu-ft)	2846.8448



Peak Flow Hydrologic Analysis

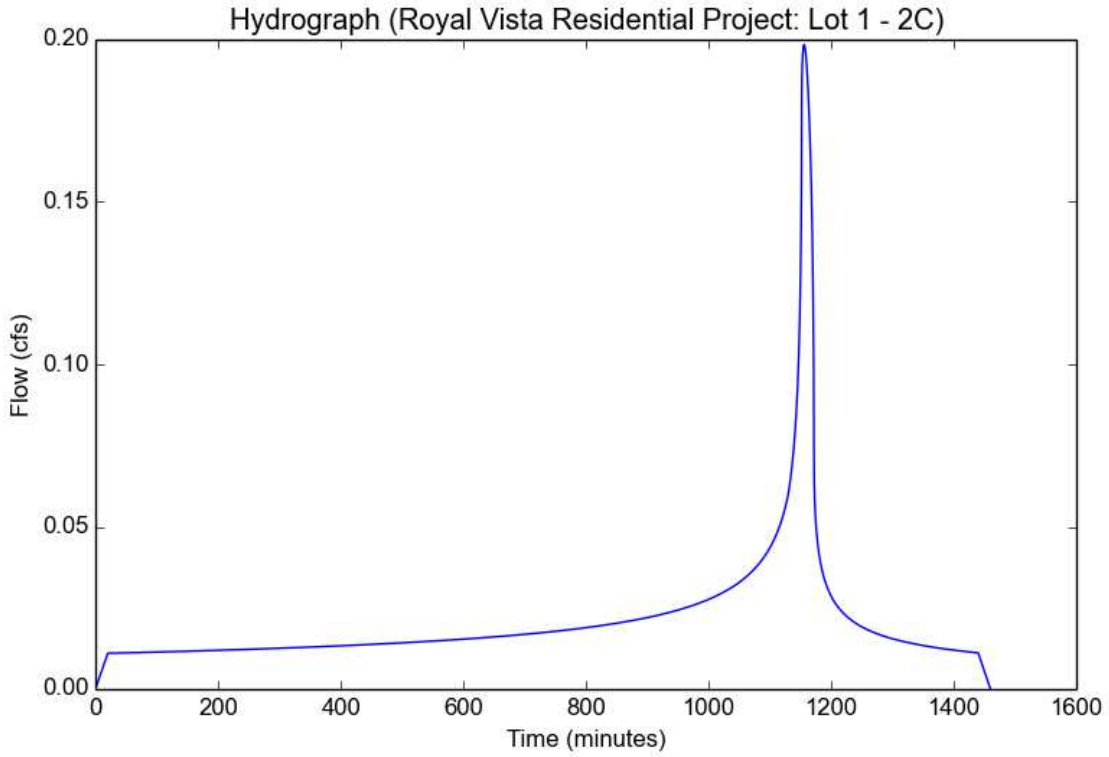
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 1/Royal Vista Residential Project Report Lots 1 and 5.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 1 - 2C
Area (ac)	0.92
Flow Path Length (ft)	389.79
Flow Path Slope (vft/hft)	0.03
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.55
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.311
Undeveloped Runoff Coefficient (Cu)	0.4412
Developed Runoff Coefficient (Cd)	0.6936
Time of Concentration (min)	20.0
Clear Peak Flow Rate (cfs)	0.1984
Burned Peak Flow Rate (cfs)	0.1984
24-Hr Clear Runoff Volume (ac-ft)	0.0423
24-Hr Clear Runoff Volume (cu-ft)	1841.1728



Peak Flow Hydrologic Analysis

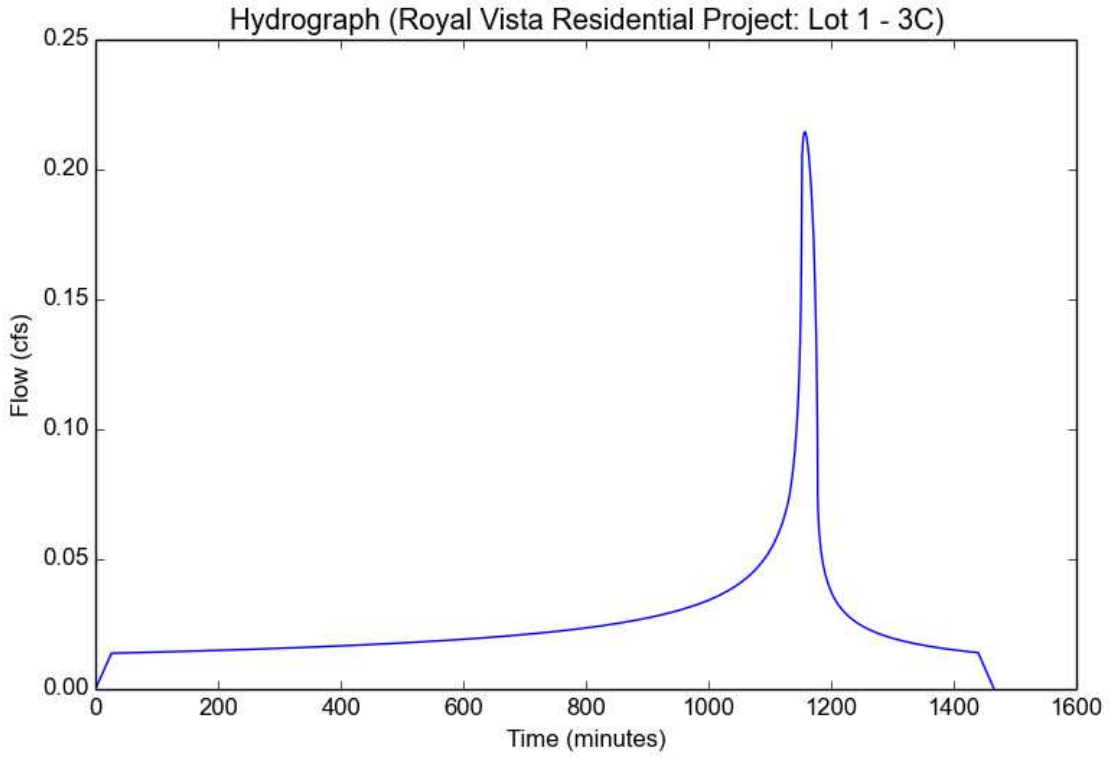
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 1/Royal Vista Residential Project Report Lots 1 and 5.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 1 - 3C
Area (ac)	1.15
Flow Path Length (ft)	523.58
Flow Path Slope (vft/hft)	0.02
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.55
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.2749
Undeveloped Runoff Coefficient (Cu)	0.4078
Developed Runoff Coefficient (Cd)	0.6785
Time of Concentration (min)	26.0
Clear Peak Flow Rate (cfs)	0.2145
Burned Peak Flow Rate (cfs)	0.2145
24-Hr Clear Runoff Volume (ac-ft)	0.0528
24-Hr Clear Runoff Volume (cu-ft)	2299.0456



Peak Flow Hydrologic Analysis

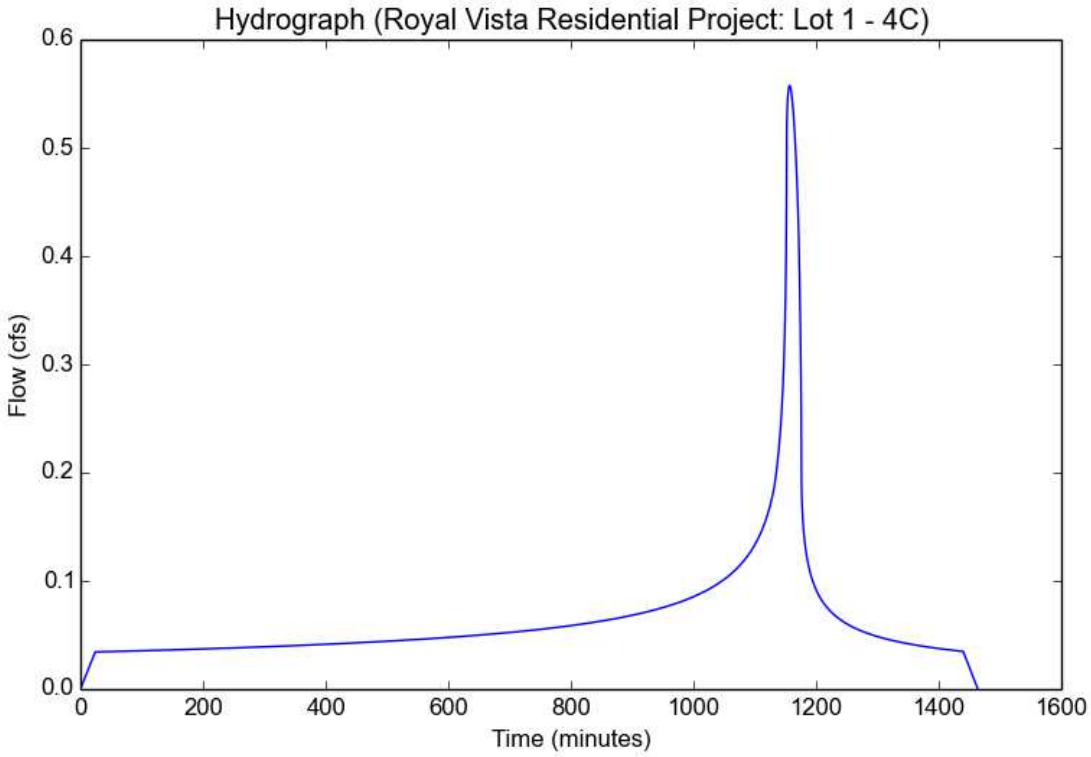
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 1/Royal Vista Residential Project Report Lots 1 and 5.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 1 - 4C
Area (ac)	2.86
Flow Path Length (ft)	562.14
Flow Path Slope (vft/hft)	0.04
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.55
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.2854
Undeveloped Runoff Coefficient (Cu)	0.4176
Developed Runoff Coefficient (Cd)	0.6829
Time of Concentration (min)	24.0
Clear Peak Flow Rate (cfs)	0.5575
Burned Peak Flow Rate (cfs)	0.5575
24-Hr Clear Runoff Volume (ac-ft)	0.1313
24-Hr Clear Runoff Volume (cu-ft)	5719.5995



Peak Flow Hydrologic Analysis

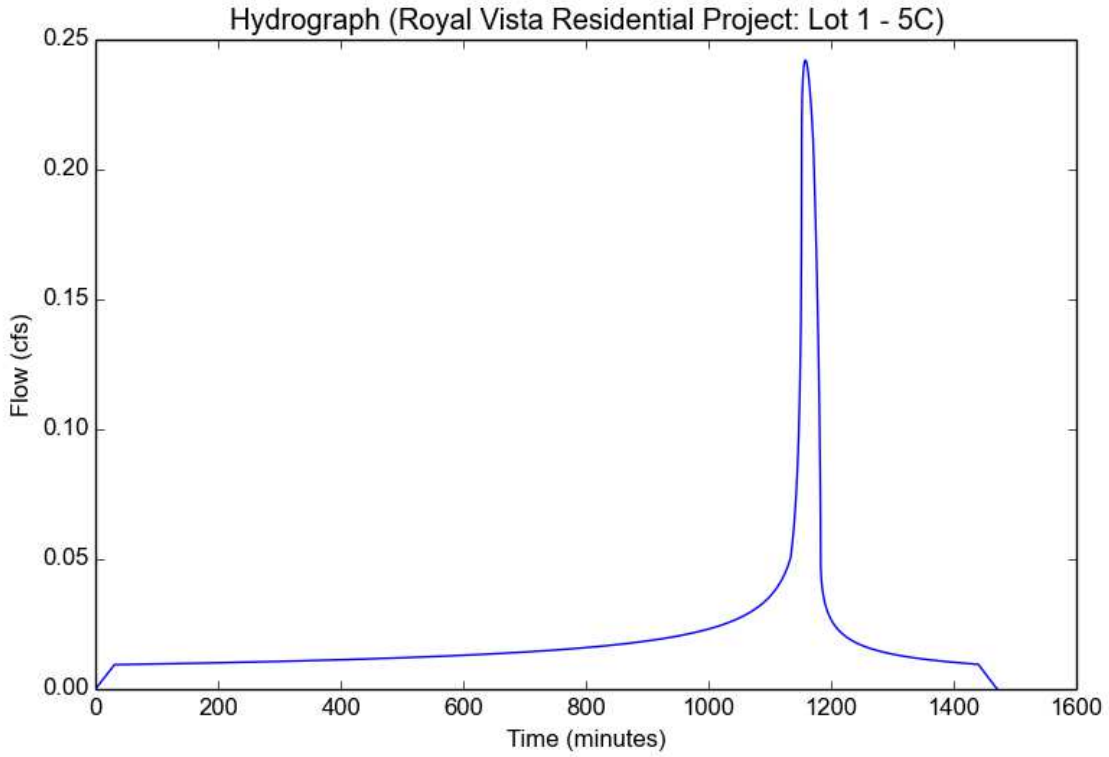
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 1/Royal Vista Residential Project Report Lots 1 and 5.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 1 - 5C
Area (ac)	2.12
Flow Path Length (ft)	444.0
Flow Path Slope (vft/hft)	0.02
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.124
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.2531
Undeveloped Runoff Coefficient (Cu)	0.3876
Developed Runoff Coefficient (Cd)	0.4512
Time of Concentration (min)	31.0
Clear Peak Flow Rate (cfs)	0.2421
Burned Peak Flow Rate (cfs)	0.2421
24-Hr Clear Runoff Volume (ac-ft)	0.04
24-Hr Clear Runoff Volume (cu-ft)	1740.3622



Peak Flow Hydrologic Analysis

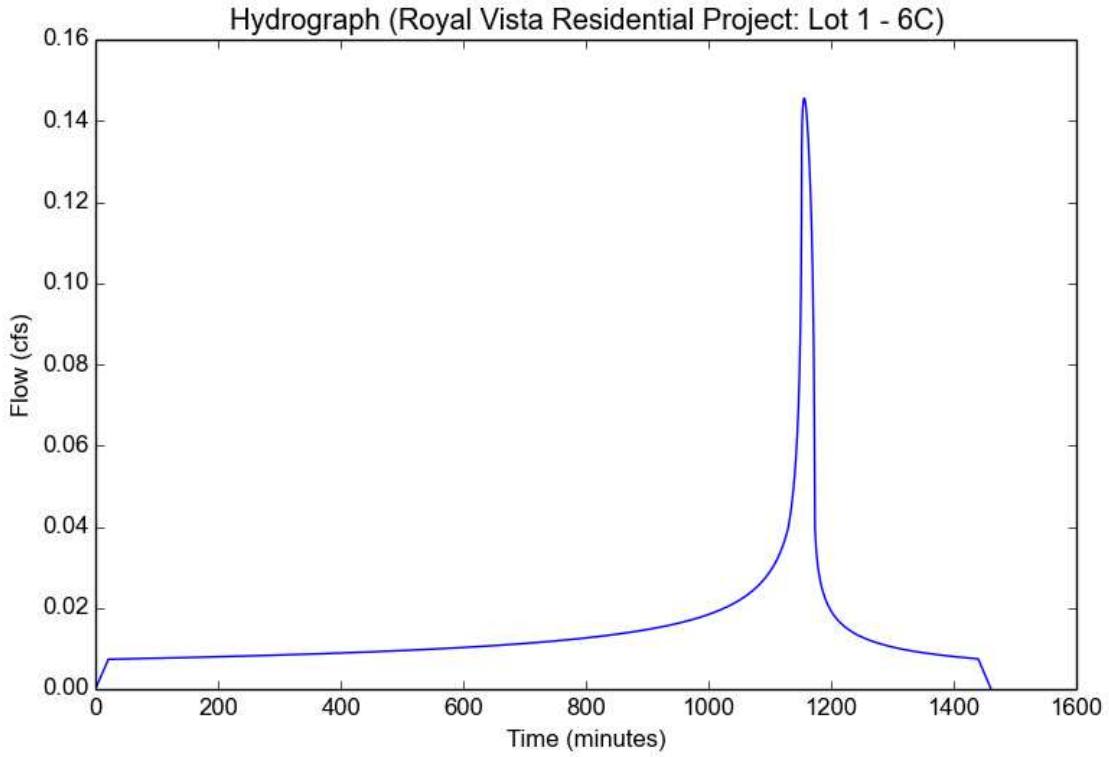
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 1/Royal Vista Golf Club Hydrocalc - Lots 1&2 - 85th Percentile_2021-07-07.p
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 1 - 6C
Area (ac)	0.76
Flow Path Length (ft)	450.24
Flow Path Slope (vft/hft)	0.05
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.42
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.3039
Undeveloped Runoff Coefficient (Cu)	0.4347
Developed Runoff Coefficient (Cd)	0.6301
Time of Concentration (min)	21.0
Clear Peak Flow Rate (cfs)	0.1456
Burned Peak Flow Rate (cfs)	0.1456
24-Hr Clear Runoff Volume (ac-ft)	0.0287
24-Hr Clear Runoff Volume (cu-ft)	1248.6378



Peak Flow Hydrologic Analysis

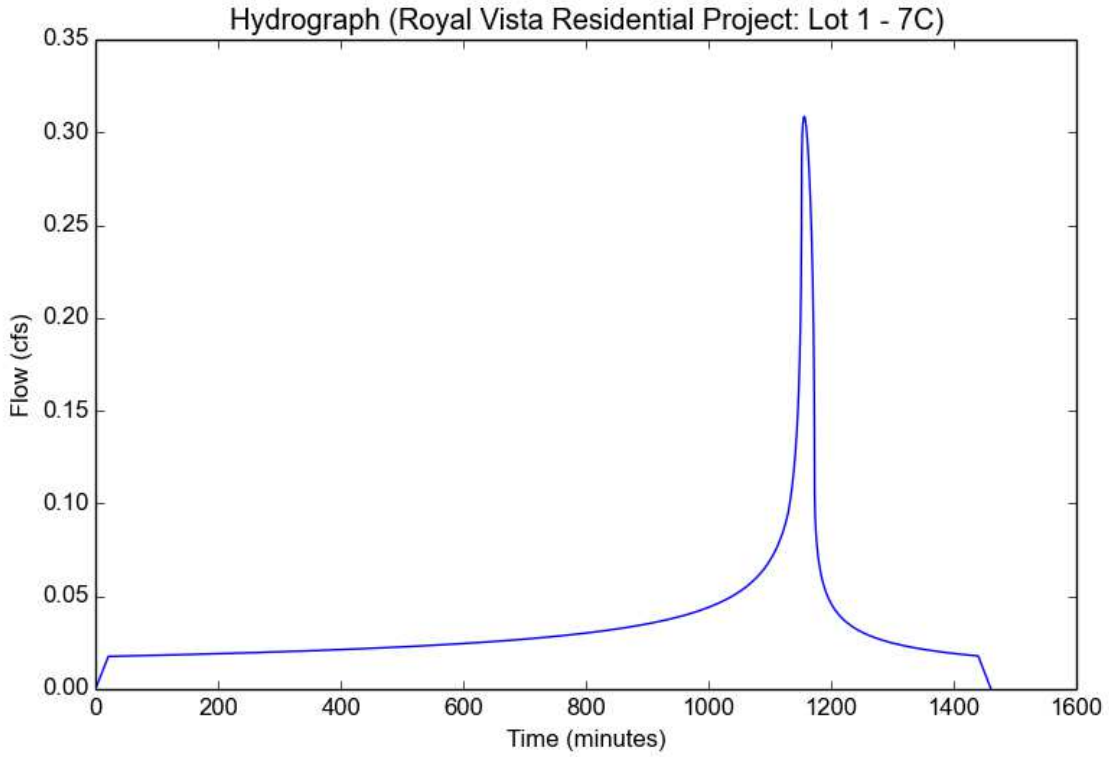
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 1/Royal Vista Residential Project Report Lots 1 and 5.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 1 - 7C
Area (ac)	1.47
Flow Path Length (ft)	487.77
Flow Path Slope (vft/hft)	0.05
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.55
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.3039
Undeveloped Runoff Coefficient (Cu)	0.4347
Developed Runoff Coefficient (Cd)	0.6906
Time of Concentration (min)	21.0
Clear Peak Flow Rate (cfs)	0.3086
Burned Peak Flow Rate (cfs)	0.3086
24-Hr Clear Runoff Volume (ac-ft)	0.0675
24-Hr Clear Runoff Volume (cu-ft)	2941.3366



Peak Flow Hydrologic Analysis

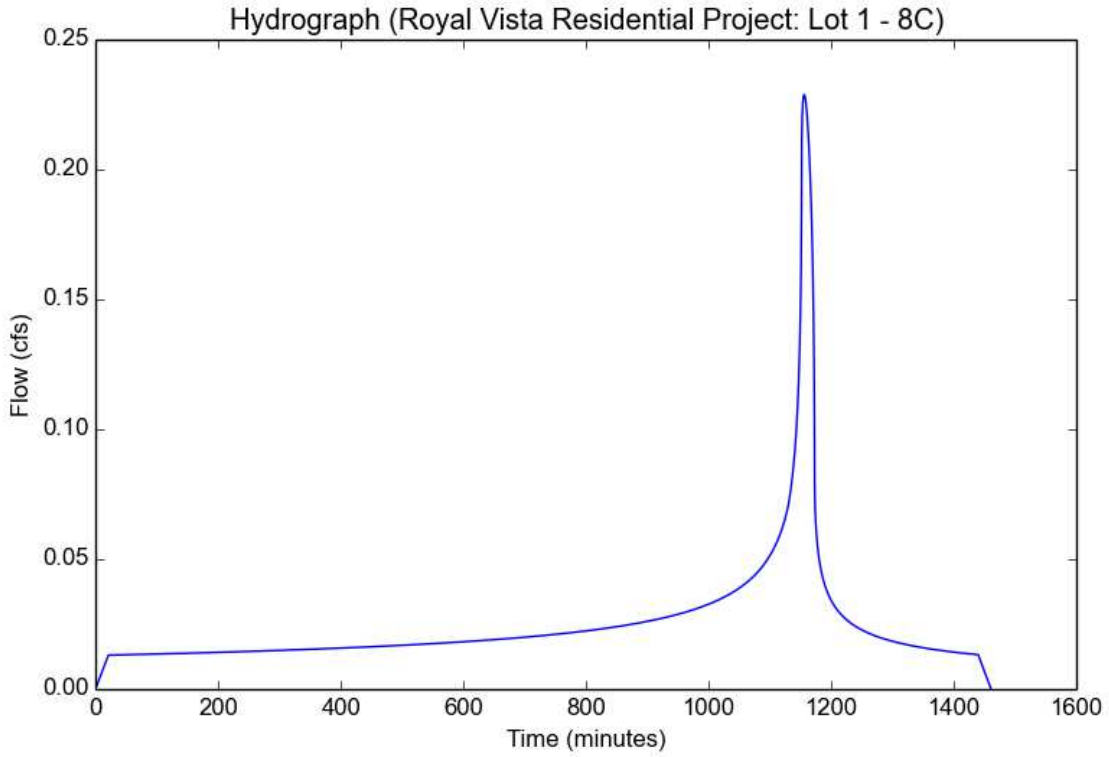
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 1/Royal Vista Residential Project Report Lots 1 and 5.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 1 - 8C
Area (ac)	1.09
Flow Path Length (ft)	479.33
Flow Path Slope (vft/hft)	0.04
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.55
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.3039
Undeveloped Runoff Coefficient (Cu)	0.4347
Developed Runoff Coefficient (Cd)	0.6906
Time of Concentration (min)	21.0
Clear Peak Flow Rate (cfs)	0.2288
Burned Peak Flow Rate (cfs)	0.2288
24-Hr Clear Runoff Volume (ac-ft)	0.0501
24-Hr Clear Runoff Volume (cu-ft)	2180.9911



Peak Flow Hydrologic Analysis

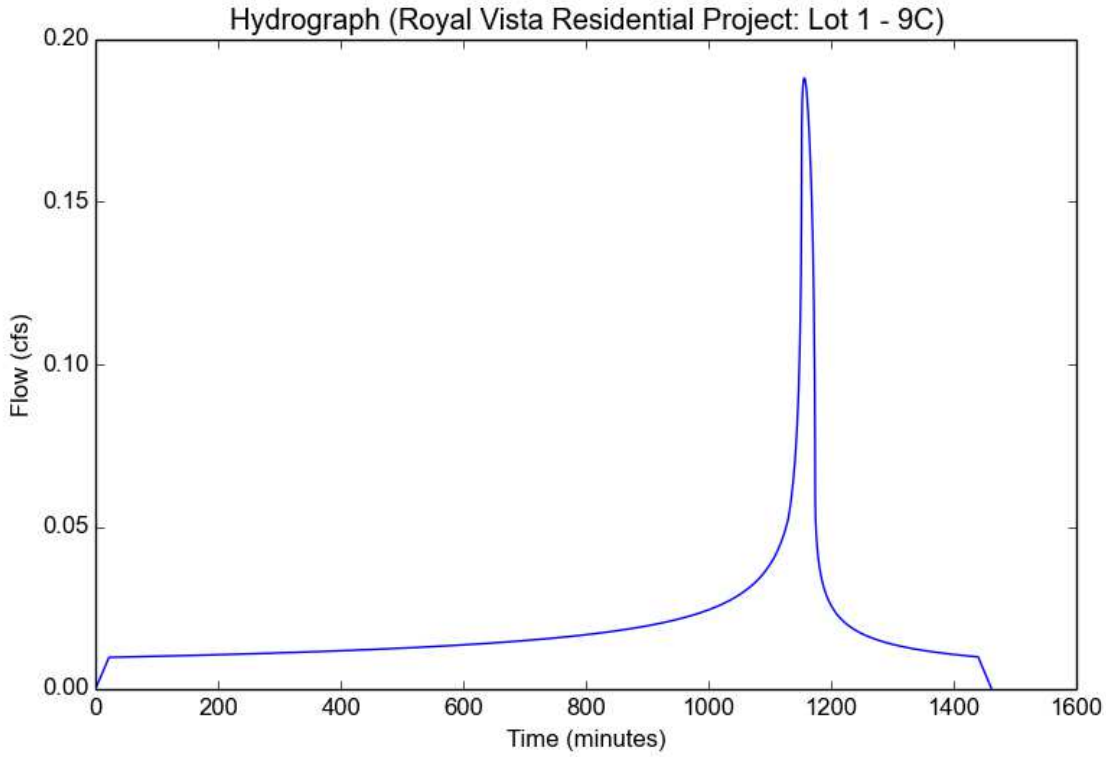
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 1/Royal Vista Golf Club Hydrocalc - Lots 1&2 - 85th Percentile_2021-07-07.p
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 1 - 9C
Area (ac)	1.01
Flow Path Length (ft)	454.33
Flow Path Slope (vft/hft)	0.04
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.42
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.2974
Undeveloped Runoff Coefficient (Cu)	0.4286
Developed Runoff Coefficient (Cd)	0.6266
Time of Concentration (min)	22.0
Clear Peak Flow Rate (cfs)	0.1882
Burned Peak Flow Rate (cfs)	0.1882
24-Hr Clear Runoff Volume (ac-ft)	0.0381
24-Hr Clear Runoff Volume (cu-ft)	1658.9106



Peak Flow Hydrologic Analysis

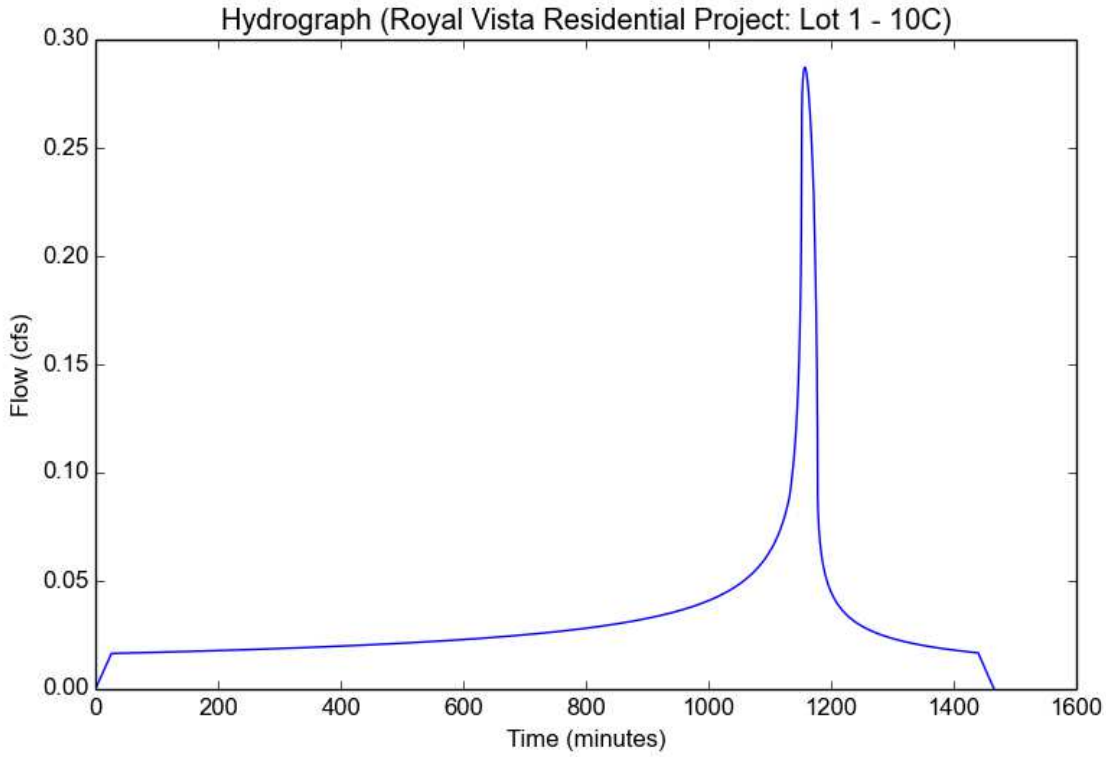
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 1/Royal Vista Golf Club Hydrocalc - Lots 1&2 - 85th Percentile_2021-07-07.p
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 1 - 10C
Area (ac)	1.7
Flow Path Length (ft)	630.94
Flow Path Slope (vft/hft)	0.05
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.42
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.2749
Undeveloped Runoff Coefficient (Cu)	0.4078
Developed Runoff Coefficient (Cd)	0.6145
Time of Concentration (min)	26.0
Clear Peak Flow Rate (cfs)	0.2872
Burned Peak Flow Rate (cfs)	0.2872
24-Hr Clear Runoff Volume (ac-ft)	0.064
24-Hr Clear Runoff Volume (cu-ft)	2789.19



Peak Flow Hydrologic Analysis

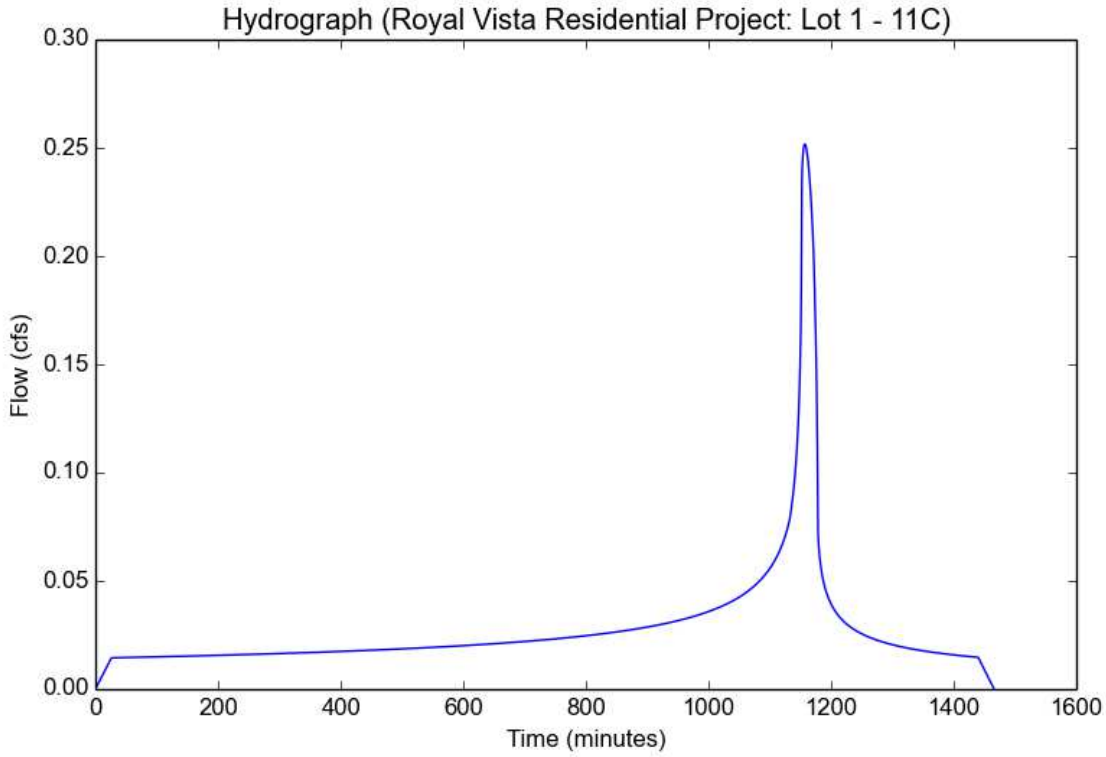
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 1/Royal Vista Golf Club Hydrocalc - Lots 1&2 - 85th Percentile_2021-07-07.p
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 1 - 11C
Area (ac)	1.49
Flow Path Length (ft)	600.55
Flow Path Slope (vft/hft)	0.05
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.42
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.2749
Undeveloped Runoff Coefficient (Cu)	0.4078
Developed Runoff Coefficient (Cd)	0.6145
Time of Concentration (min)	26.0
Clear Peak Flow Rate (cfs)	0.2517
Burned Peak Flow Rate (cfs)	0.2517
24-Hr Clear Runoff Volume (ac-ft)	0.0561
24-Hr Clear Runoff Volume (cu-ft)	2444.643



Peak Flow Hydrologic Analysis

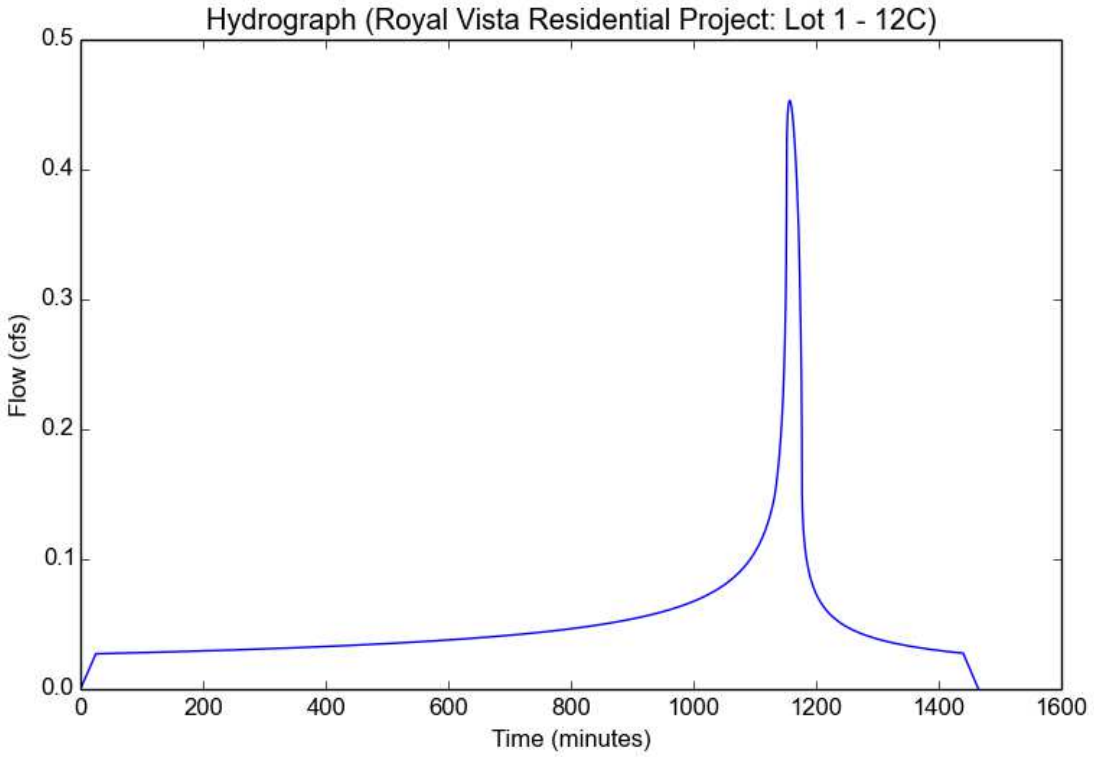
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 1/Royal Vista Residential Project Report Lots 1 and 5.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 1 - 12C
Area (ac)	2.48
Flow Path Length (ft)	465.93
Flow Path Slope (vft/hft)	0.02
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.492
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.28
Undeveloped Runoff Coefficient (Cu)	0.4126
Developed Runoff Coefficient (Cd)	0.6524
Time of Concentration (min)	25.0
Clear Peak Flow Rate (cfs)	0.453
Burned Peak Flow Rate (cfs)	0.453
24-Hr Clear Runoff Volume (ac-ft)	0.1047
24-Hr Clear Runoff Volume (cu-ft)	4562.2735



Peak Flow Hydrologic Analysis

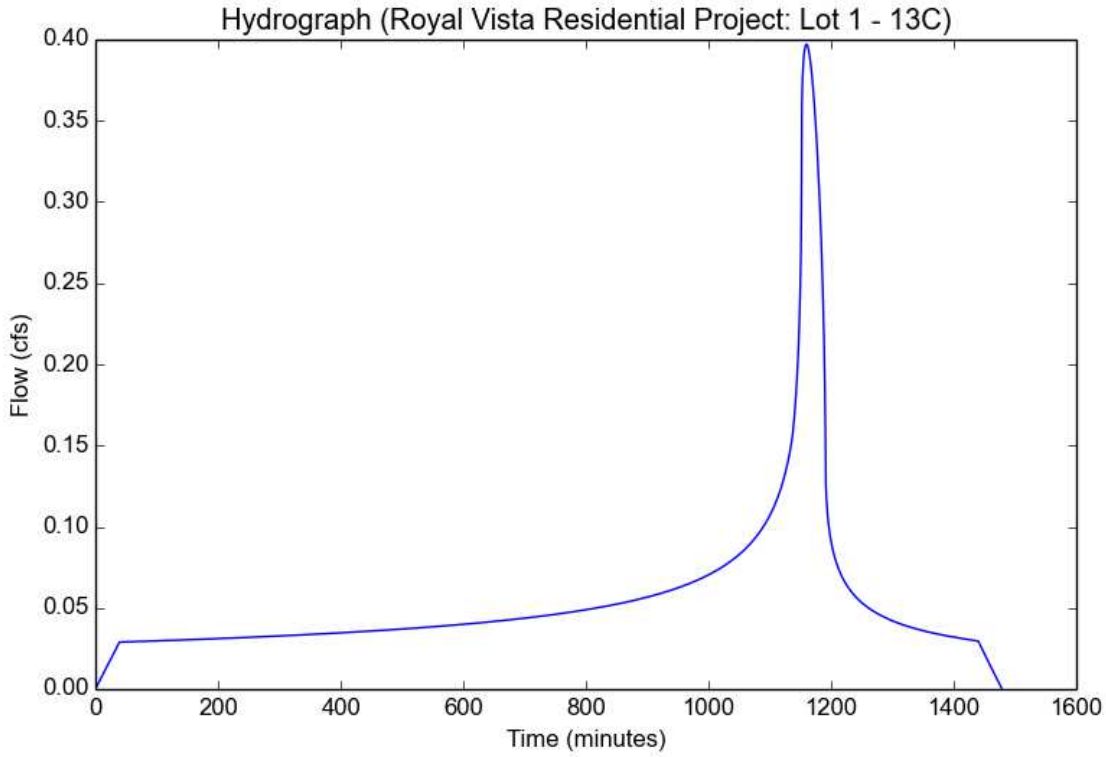
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 1/Royal Vista Golf Club Hydrocalc - Lots 1&2 - 85th Percentile_2021-07-07.p
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 1 - 13C
Area (ac)	2.98
Flow Path Length (ft)	1044.36
Flow Path Slope (vft/hft)	0.04
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.42
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.2272
Undeveloped Runoff Coefficient (Cu)	0.3595
Developed Runoff Coefficient (Cd)	0.5865
Time of Concentration (min)	39.0
Clear Peak Flow Rate (cfs)	0.3971
Burned Peak Flow Rate (cfs)	0.3971
24-Hr Clear Runoff Volume (ac-ft)	0.1117
24-Hr Clear Runoff Volume (cu-ft)	4864.7832



Peak Flow Hydrologic Analysis

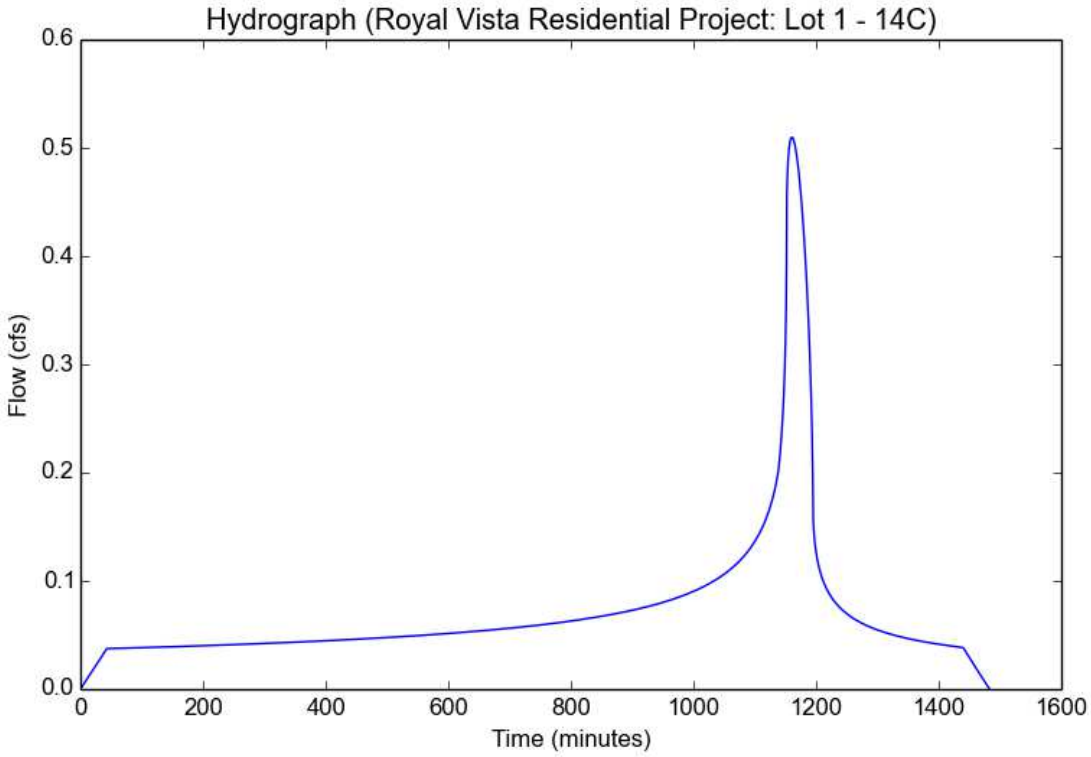
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 1/Royal Vista Golf Club Hydrocalc - Lots 1&2 - 85th Percentile_2021-07-07.p
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 1 - 14C
Area (ac)	4.41
Flow Path Length (ft)	1074.31
Flow Path Slope (vft/hft)	0.04
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.35
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.217
Undeveloped Runoff Coefficient (Cu)	0.3348
Developed Runoff Coefficient (Cd)	0.5326
Time of Concentration (min)	43.0
Clear Peak Flow Rate (cfs)	0.5097
Burned Peak Flow Rate (cfs)	0.5097
24-Hr Clear Runoff Volume (ac-ft)	0.1451
24-Hr Clear Runoff Volume (cu-ft)	6322.1566



Peak Flow Hydrologic Analysis

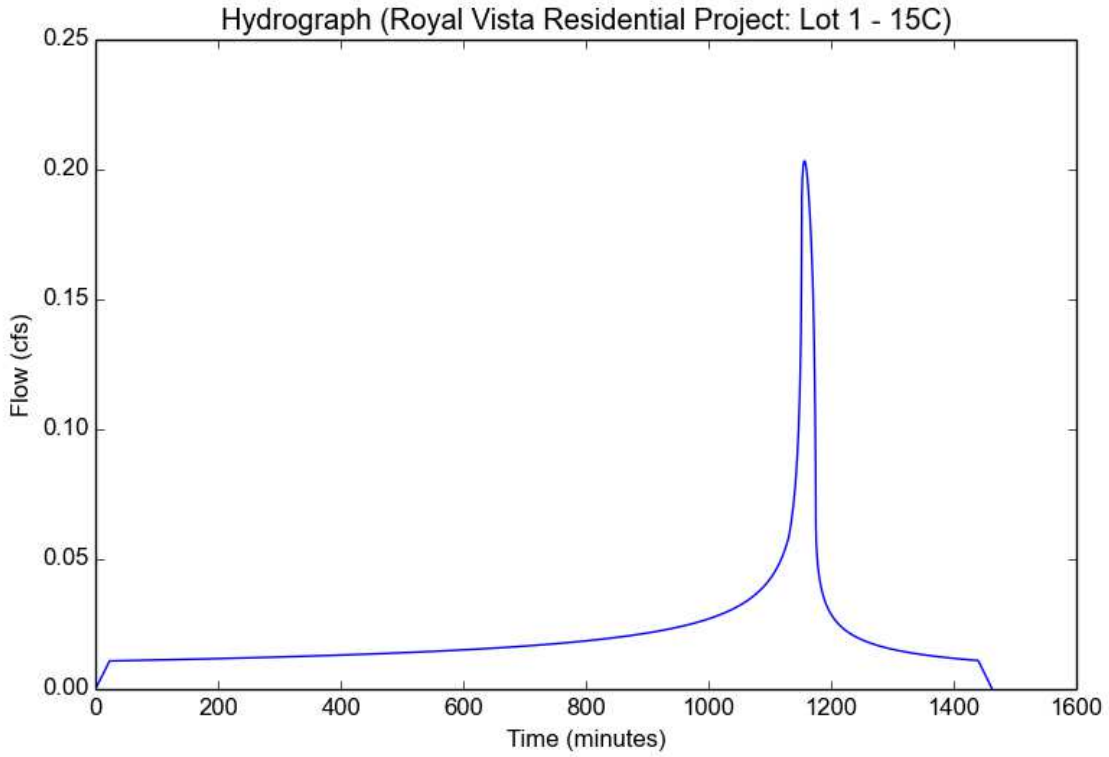
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 1/Royal Vista Golf Club Hydrocalc - Lots 1&2 - 85th Percentile_2021-07-07.p
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 1 - 15C
Area (ac)	1.12
Flow Path Length (ft)	397.68
Flow Path Slope (vft/hft)	0.02
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.42
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.2912
Undeveloped Runoff Coefficient (Cu)	0.4229
Developed Runoff Coefficient (Cd)	0.6233
Time of Concentration (min)	23.0
Clear Peak Flow Rate (cfs)	0.2033
Burned Peak Flow Rate (cfs)	0.2033
24-Hr Clear Runoff Volume (ac-ft)	0.0422
24-Hr Clear Runoff Volume (cu-ft)	1839.0792



Peak Flow Hydrologic Analysis

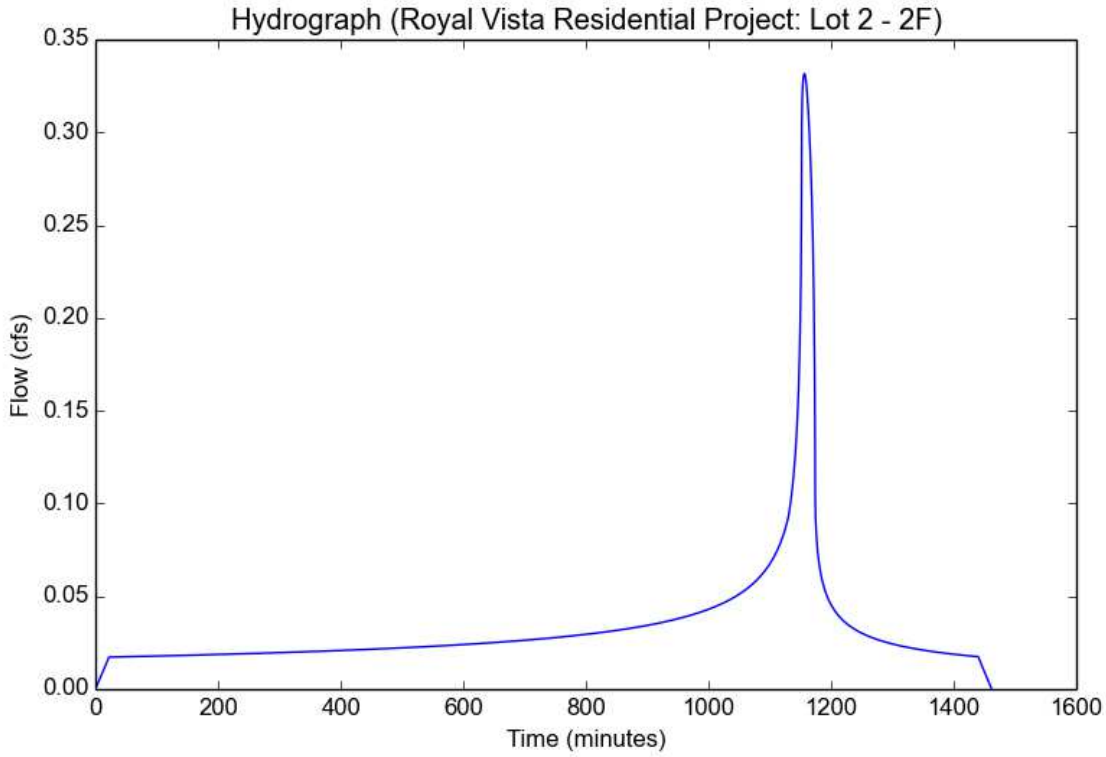
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 1/Royal Vista Golf Club Hydrocalc - Lots 1&2 - 85th Percentile_2021-07-07.p
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 2 - 2F
Area (ac)	1.78
Flow Path Length (ft)	476.11
Flow Path Slope (vft/hft)	0.05
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.42
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.2974
Undeveloped Runoff Coefficient (Cu)	0.4286
Developed Runoff Coefficient (Cd)	0.6266
Time of Concentration (min)	22.0
Clear Peak Flow Rate (cfs)	0.3317
Burned Peak Flow Rate (cfs)	0.3317
24-Hr Clear Runoff Volume (ac-ft)	0.0671
24-Hr Clear Runoff Volume (cu-ft)	2923.6245



Peak Flow Hydrologic Analysis

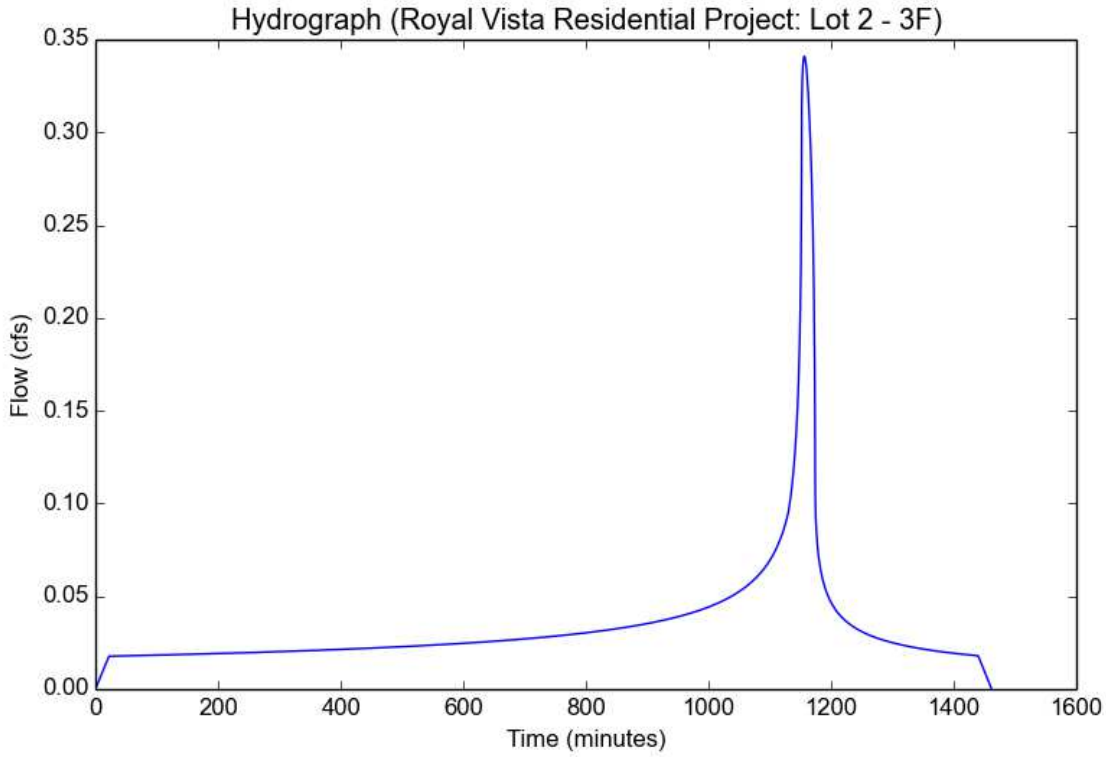
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 1/Royal Vista Golf Club Hydrocalc - Lots 1&2 - 85th Percentile_2021-07-07.p
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 2 - 3F
Area (ac)	1.83
Flow Path Length (ft)	427.24
Flow Path Slope (vft/hft)	0.03
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.42
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.2974
Undeveloped Runoff Coefficient (Cu)	0.4286
Developed Runoff Coefficient (Cd)	0.6266
Time of Concentration (min)	22.0
Clear Peak Flow Rate (cfs)	0.341
Burned Peak Flow Rate (cfs)	0.341
24-Hr Clear Runoff Volume (ac-ft)	0.069
24-Hr Clear Runoff Volume (cu-ft)	3005.7488



Peak Flow Hydrologic Analysis

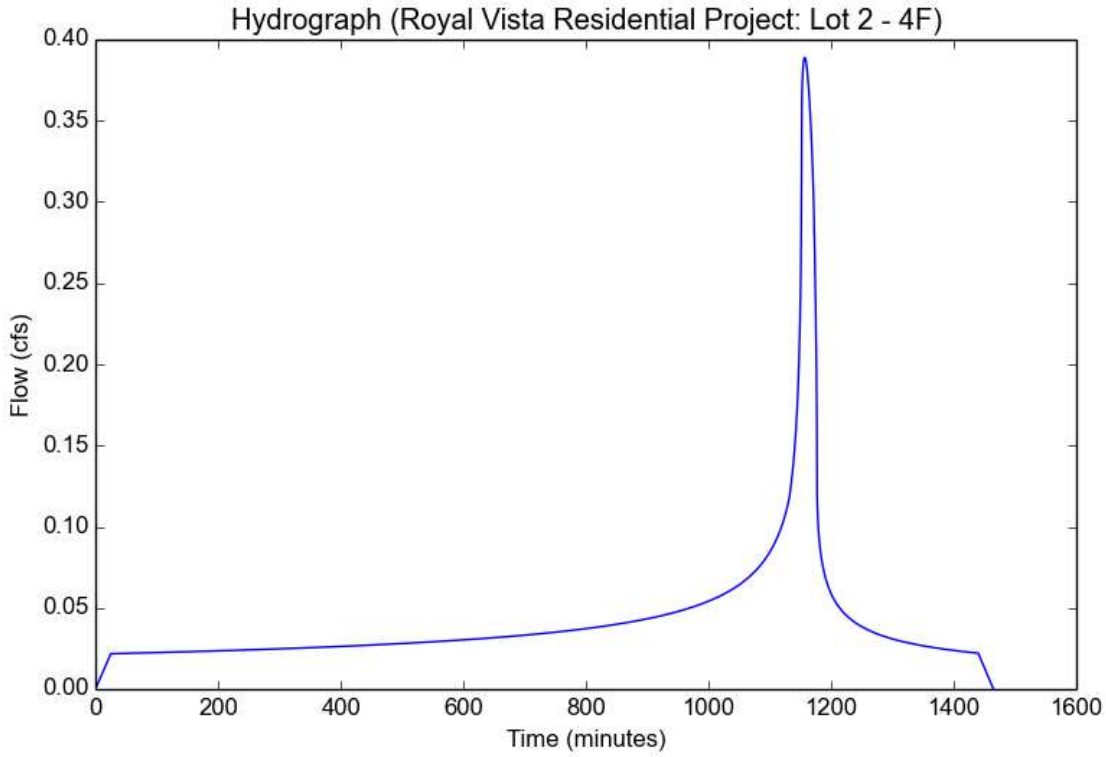
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 1/Royal Vista Golf Club Hydrocalc - Lots 1&2 - 85th Percentile_2021-07-07.p
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 2 - 4F
Area (ac)	2.25
Flow Path Length (ft)	540.49
Flow Path Slope (vft/hft)	0.04
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.42
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.28
Undeveloped Runoff Coefficient (Cu)	0.4126
Developed Runoff Coefficient (Cd)	0.6173
Time of Concentration (min)	25.0
Clear Peak Flow Rate (cfs)	0.3889
Burned Peak Flow Rate (cfs)	0.3889
24-Hr Clear Runoff Volume (ac-ft)	0.0848
24-Hr Clear Runoff Volume (cu-ft)	3692.5754



Peak Flow Hydrologic Analysis

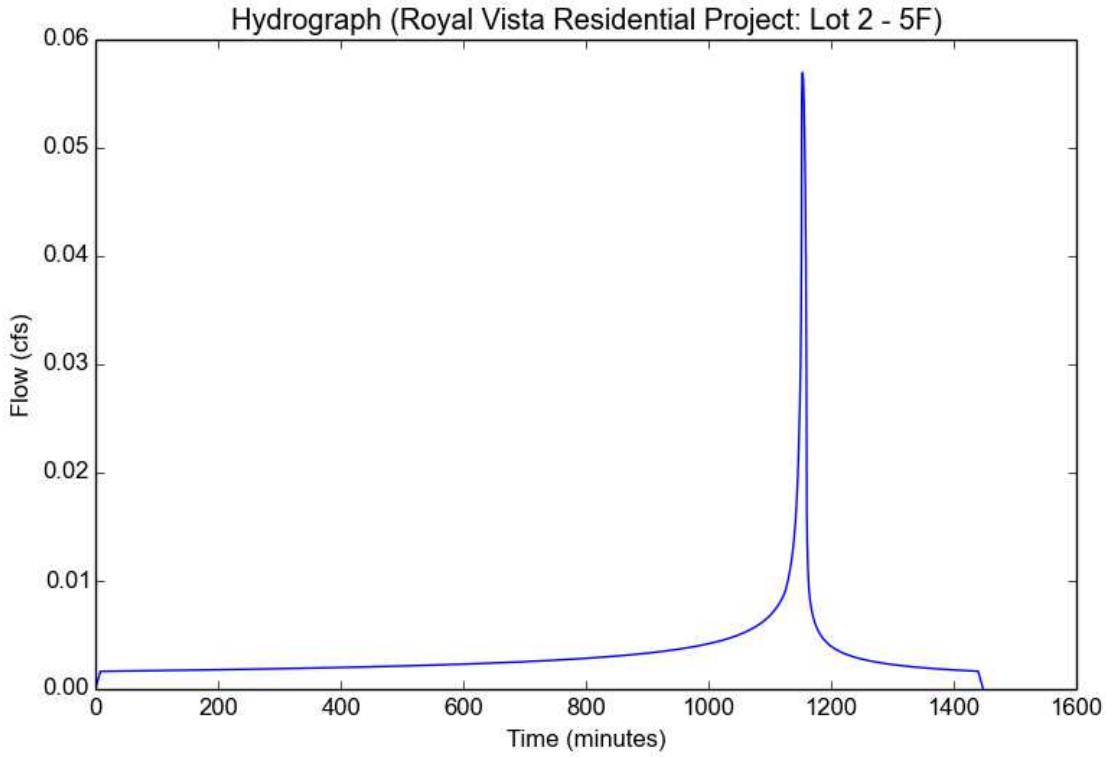
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 1/Royal Vista Golf Club Hydrocalc - Lots 1&2 - 85th Percentile_2021-07-07.p
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 2 - 5F
Area (ac)	0.17
Flow Path Length (ft)	99.1
Flow Path Slope (vft/hft)	0.04
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.42
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.4784
Undeveloped Runoff Coefficient (Cu)	0.5557
Developed Runoff Coefficient (Cd)	0.7003
Time of Concentration (min)	8.0
Clear Peak Flow Rate (cfs)	0.057
Burned Peak Flow Rate (cfs)	0.057
24-Hr Clear Runoff Volume (ac-ft)	0.0064
24-Hr Clear Runoff Volume (cu-ft)	280.4631



Peak Flow Hydrologic Analysis

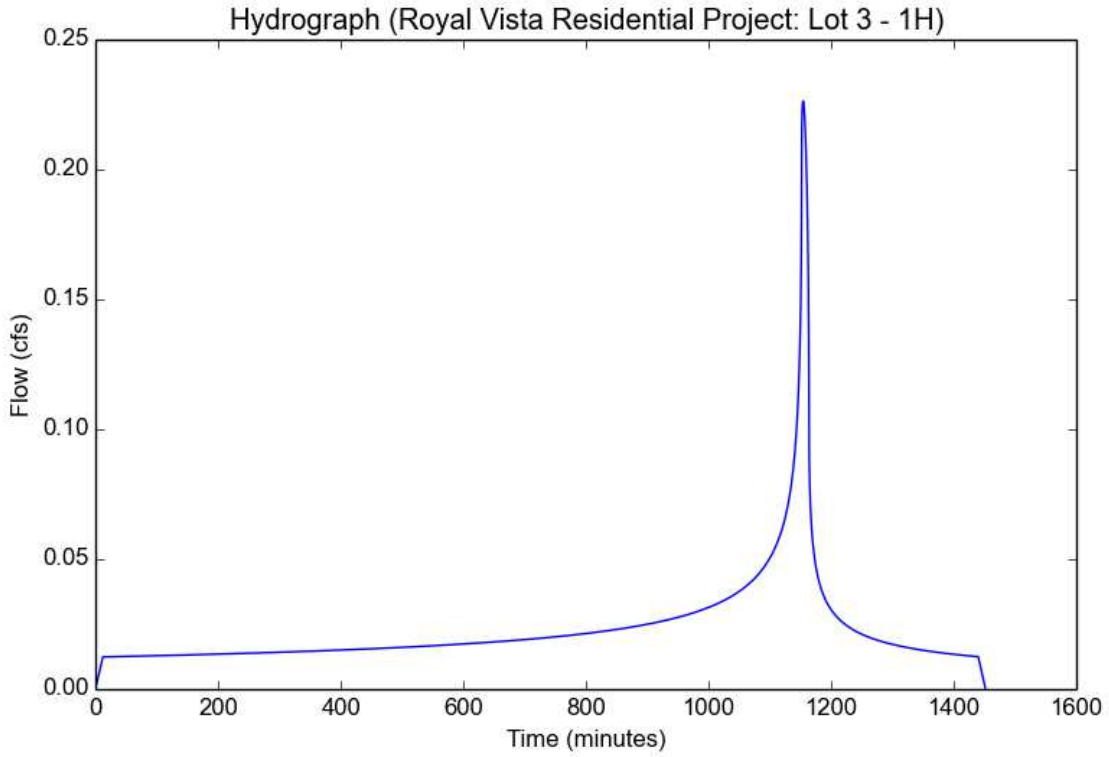
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 3/Royal Vista Golf Club Hydrocalc - Lot 3 - 85th Percentile_2021-07-07.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 3 - 1H
Area (ac)	0.65
Flow Path Length (ft)	222.0
Flow Path Slope (vft/hft)	0.03
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.95
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.3954
Undeveloped Runoff Coefficient (Cu)	0.5194
Developed Runoff Coefficient (Cd)	0.881
Time of Concentration (min)	12.0
Clear Peak Flow Rate (cfs)	0.2264
Burned Peak Flow Rate (cfs)	0.2264
24-Hr Clear Runoff Volume (ac-ft)	0.0463
24-Hr Clear Runoff Volume (cu-ft)	2016.8131



Peak Flow Hydrologic Analysis

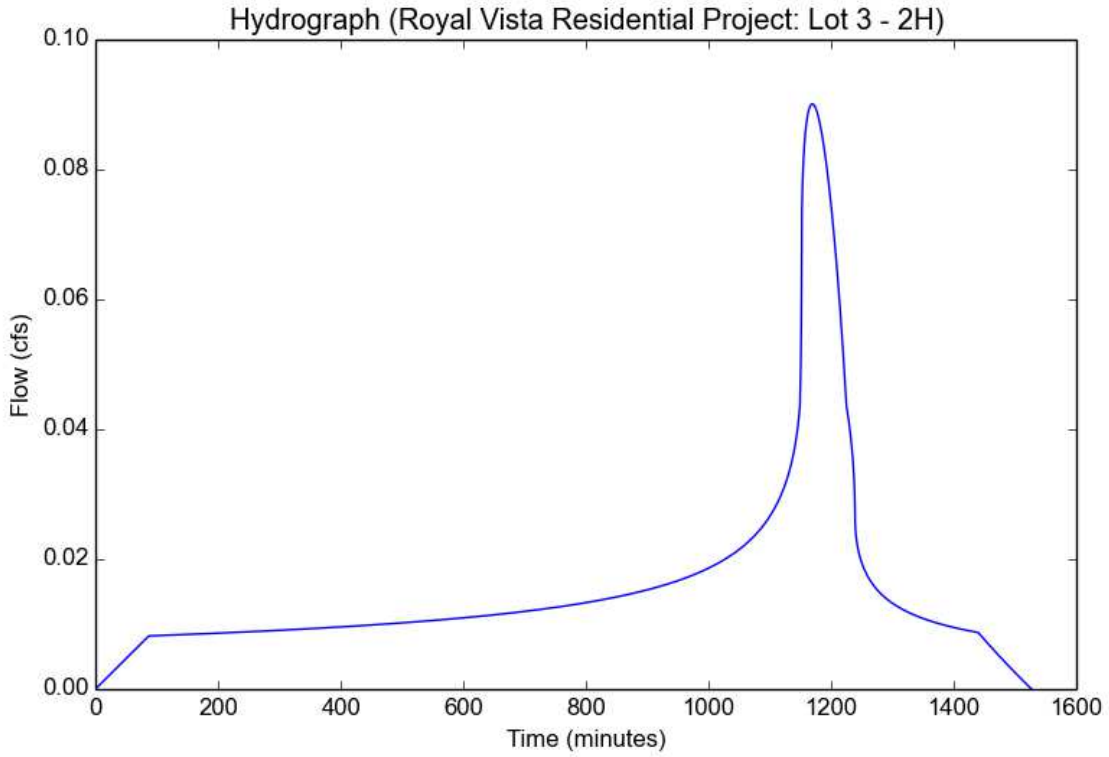
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 3/Royal Vista Golf Club Hydrocalc - Lot 3 - 85th Percentile_2021-07-07.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 3 - 2H
Area (ac)	2.6
Flow Path Length (ft)	1060.0
Flow Path Slope (vft/hft)	0.02
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.05
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.1558
Undeveloped Runoff Coefficient (Cu)	0.1867
Developed Runoff Coefficient (Cd)	0.2224
Time of Concentration (min)	87.0
Clear Peak Flow Rate (cfs)	0.0901
Burned Peak Flow Rate (cfs)	0.0901
24-Hr Clear Runoff Volume (ac-ft)	0.0325
24-Hr Clear Runoff Volume (cu-ft)	1414.175



Peak Flow Hydrologic Analysis

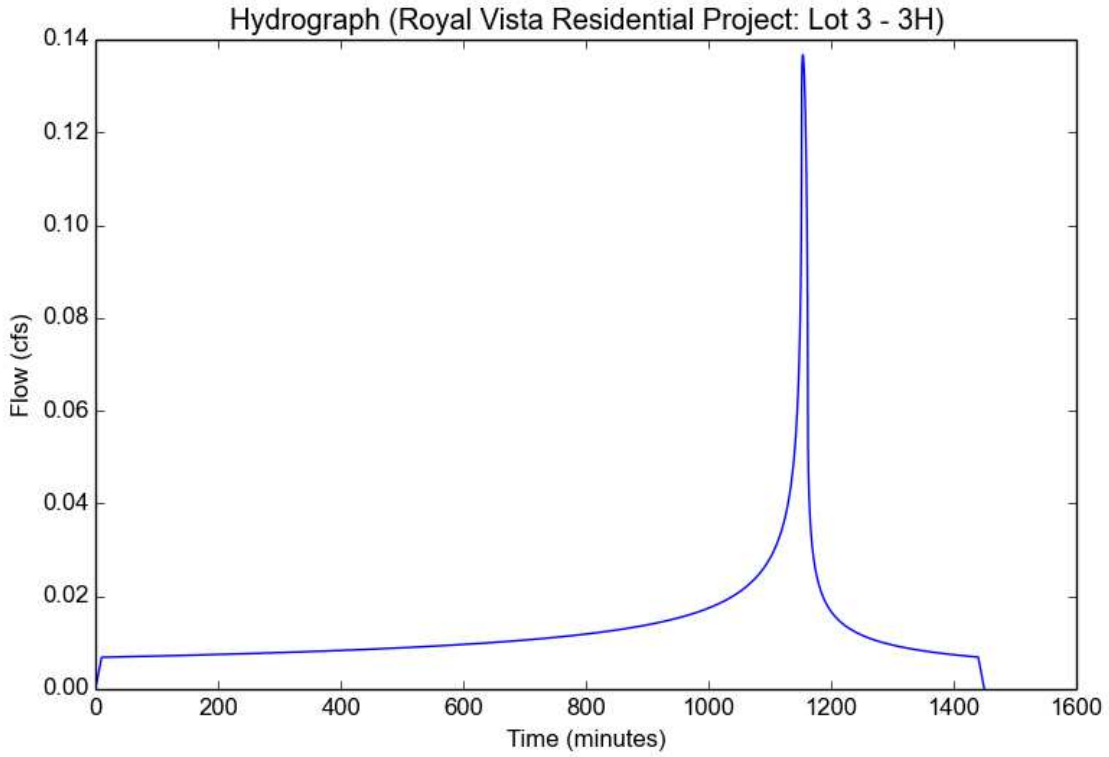
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 3/Royal Vista Golf Club Hydrocalc - Lot 3 - 85th Percentile_2021-07-07.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 3 - 3H
Area (ac)	0.36
Flow Path Length (ft)	195.0
Flow Path Slope (vft/hft)	0.05
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.95
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.4307
Undeveloped Runoff Coefficient (Cu)	0.5363
Developed Runoff Coefficient (Cd)	0.8818
Time of Concentration (min)	10.0
Clear Peak Flow Rate (cfs)	0.1367
Burned Peak Flow Rate (cfs)	0.1367
24-Hr Clear Runoff Volume (ac-ft)	0.0256
24-Hr Clear Runoff Volume (cu-ft)	1117.0338



Peak Flow Hydrologic Analysis

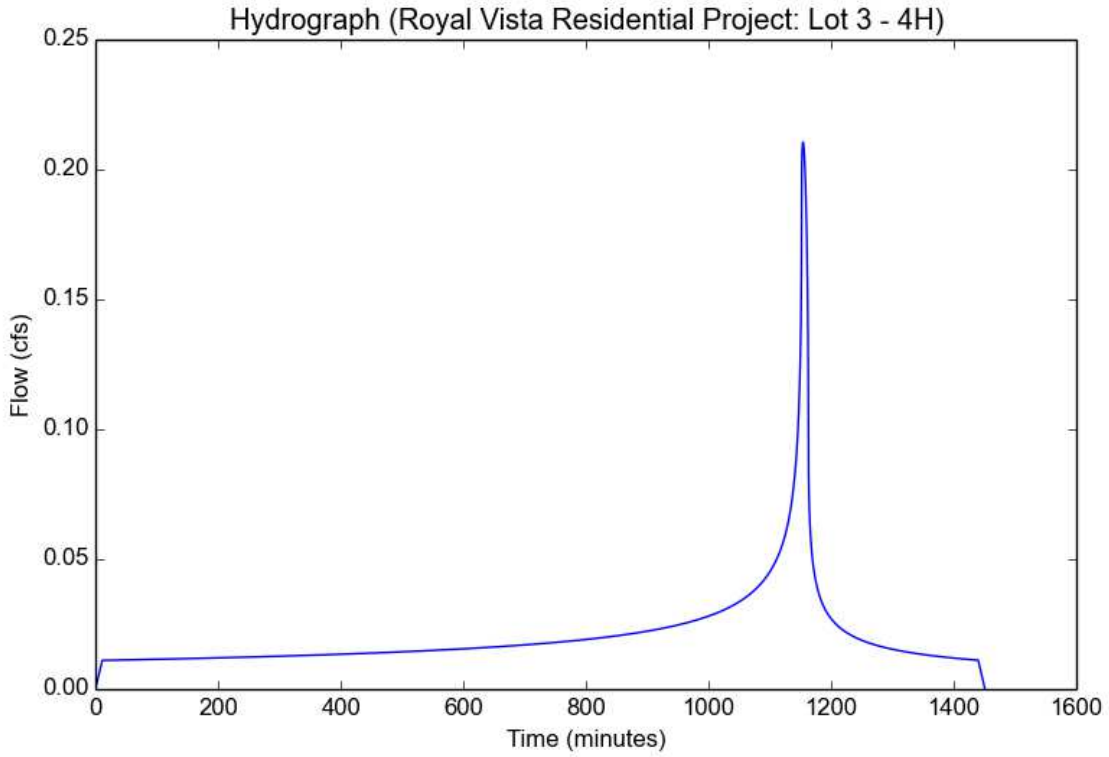
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 3/Royal Vista Golf Club Hydrocalc - Lot 3 - 85th Percentile_2021-07-07.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 3 - 4H
Area (ac)	0.58
Flow Path Length (ft)	225.0
Flow Path Slope (vft/hft)	0.04
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.95
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.4119
Undeveloped Runoff Coefficient (Cu)	0.5286
Developed Runoff Coefficient (Cd)	0.8814
Time of Concentration (min)	11.0
Clear Peak Flow Rate (cfs)	0.2106
Burned Peak Flow Rate (cfs)	0.2106
24-Hr Clear Runoff Volume (ac-ft)	0.0413
24-Hr Clear Runoff Volume (cu-ft)	1799.6493



Peak Flow Hydrologic Analysis

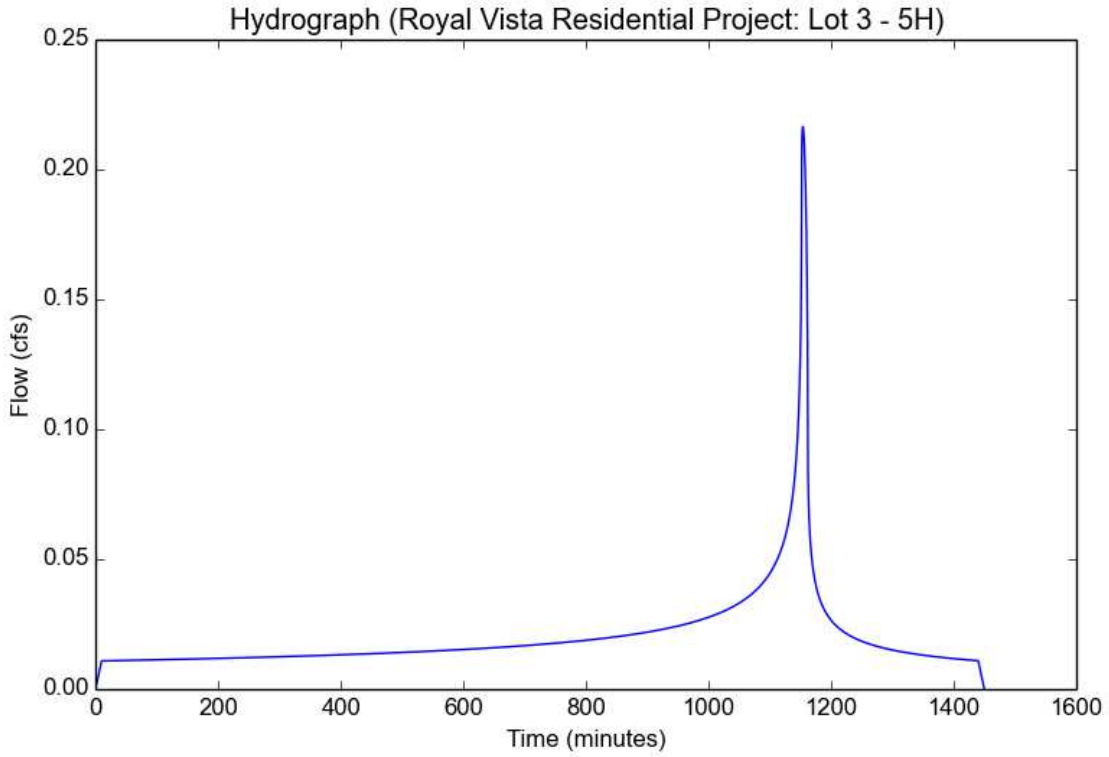
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 3/Royal Vista Golf Club Hydrocalc - Lot 3 - 85th Percentile_2021-07-07.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 3 - 5H
Area (ac)	0.57
Flow Path Length (ft)	225.0
Flow Path Slope (vft/hft)	0.06
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.95
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.4307
Undeveloped Runoff Coefficient (Cu)	0.5363
Developed Runoff Coefficient (Cd)	0.8818
Time of Concentration (min)	10.0
Clear Peak Flow Rate (cfs)	0.2165
Burned Peak Flow Rate (cfs)	0.2165
24-Hr Clear Runoff Volume (ac-ft)	0.0406
24-Hr Clear Runoff Volume (cu-ft)	1768.6368



Peak Flow Hydrologic Analysis

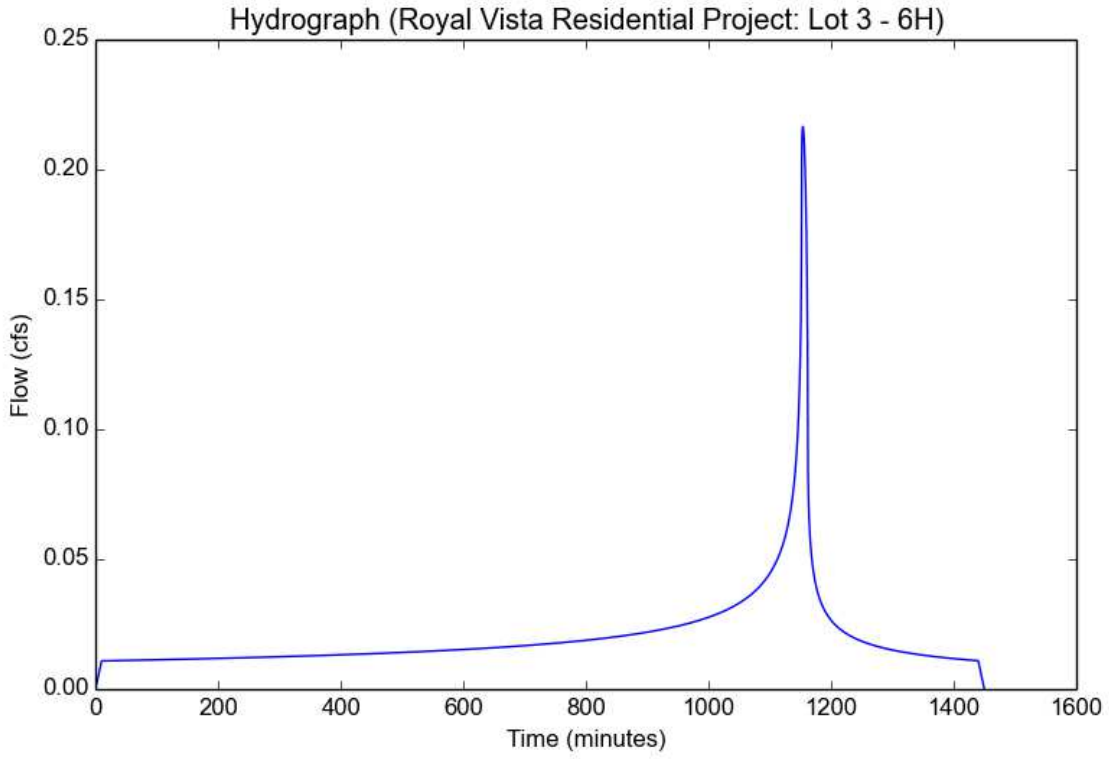
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 3/Royal Vista Golf Club Hydrocalc - Lot 3 - 85th Percentile_2021-07-07.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 3 - 6H
Area (ac)	0.57
Flow Path Length (ft)	225.0
Flow Path Slope (vft/hft)	0.08
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.95
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.4307
Undeveloped Runoff Coefficient (Cu)	0.5363
Developed Runoff Coefficient (Cd)	0.8818
Time of Concentration (min)	10.0
Clear Peak Flow Rate (cfs)	0.2165
Burned Peak Flow Rate (cfs)	0.2165
24-Hr Clear Runoff Volume (ac-ft)	0.0406
24-Hr Clear Runoff Volume (cu-ft)	1768.6368



Peak Flow Hydrologic Analysis

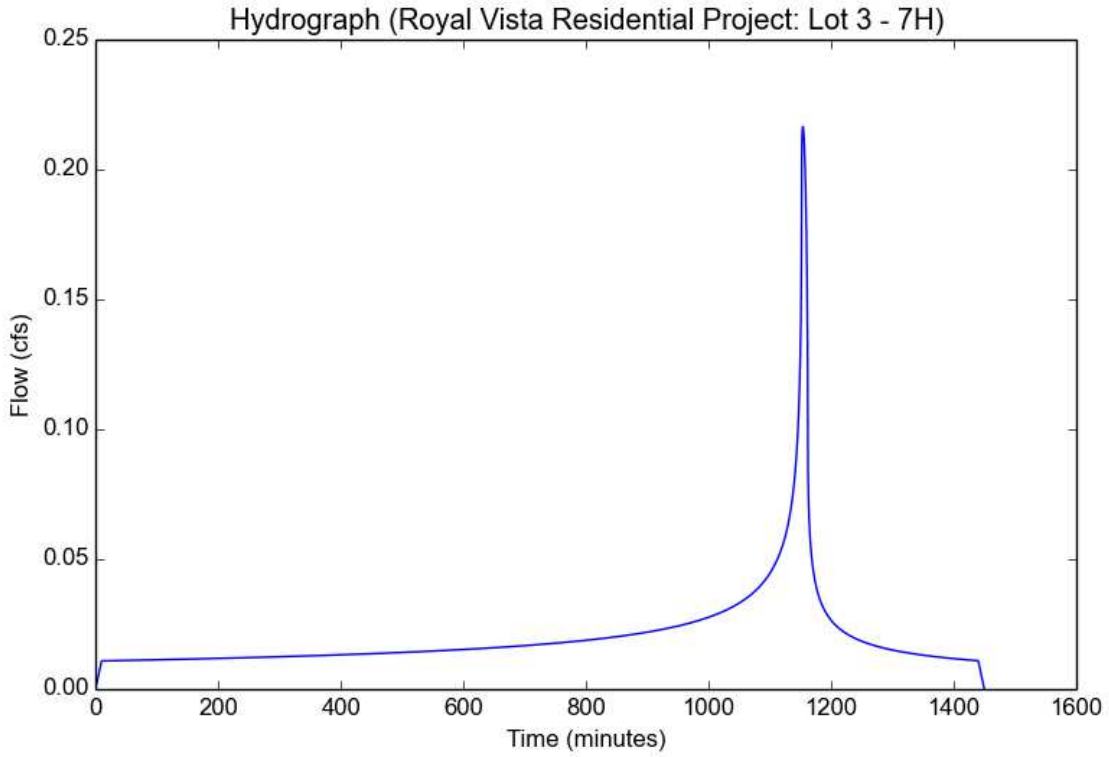
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 3/Royal Vista Golf Club Hydrocalc - Lot 3 - 85th Percentile_2021-07-07.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 3 - 7H
Area (ac)	0.57
Flow Path Length (ft)	224.0
Flow Path Slope (vft/hft)	0.07
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.95
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.4307
Undeveloped Runoff Coefficient (Cu)	0.5363
Developed Runoff Coefficient (Cd)	0.8818
Time of Concentration (min)	10.0
Clear Peak Flow Rate (cfs)	0.2165
Burned Peak Flow Rate (cfs)	0.2165
24-Hr Clear Runoff Volume (ac-ft)	0.0406
24-Hr Clear Runoff Volume (cu-ft)	1768.6368



Peak Flow Hydrologic Analysis

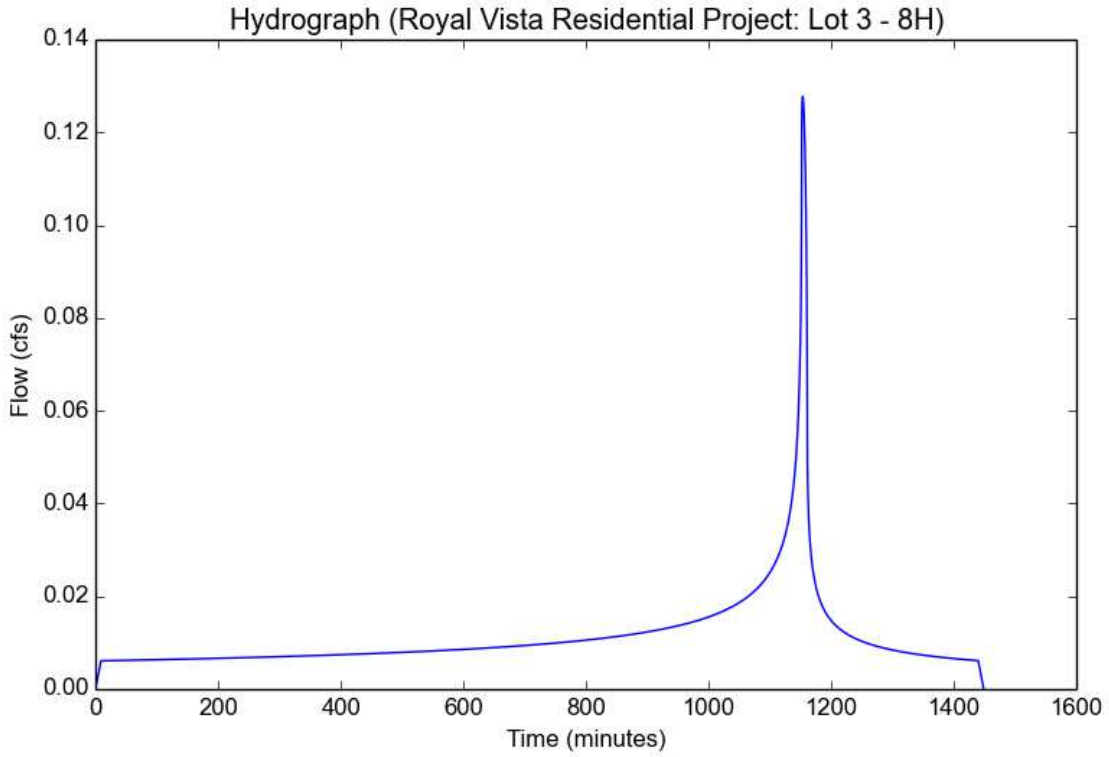
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 3/Royal Vista Golf Club Hydrocalc - Lot 3 - 85th Percentile_2021-07-07.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 3 - 8H
Area (ac)	0.32
Flow Path Length (ft)	189.0
Flow Path Slope (vft/hft)	0.07
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.95
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.4526
Undeveloped Runoff Coefficient (Cu)	0.5452
Developed Runoff Coefficient (Cd)	0.8823
Time of Concentration (min)	9.0
Clear Peak Flow Rate (cfs)	0.1278
Burned Peak Flow Rate (cfs)	0.1278
24-Hr Clear Runoff Volume (ac-ft)	0.0228
24-Hr Clear Runoff Volume (cu-ft)	992.9259



Peak Flow Hydrologic Analysis

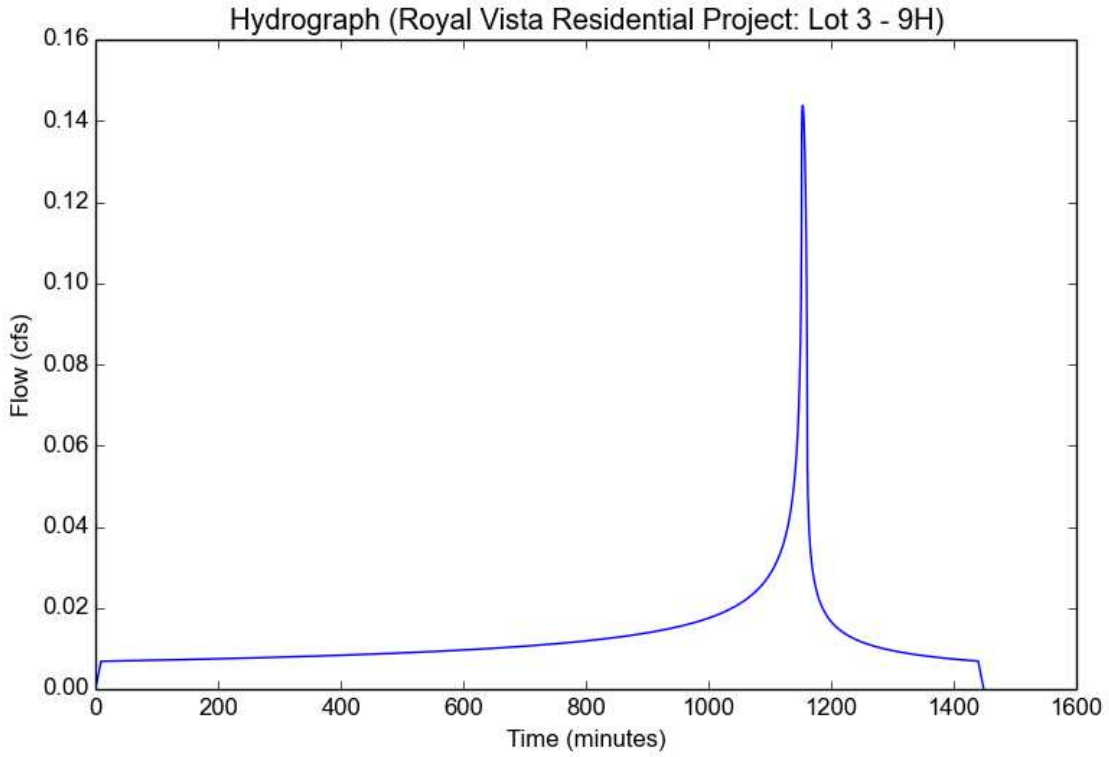
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 3/Royal Vista Golf Club Hydrocalc - Lot 3 - 85th Percentile_2021-07-07.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 3 - 9H
Area (ac)	0.36
Flow Path Length (ft)	193.0
Flow Path Slope (vft/hft)	0.06
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.95
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.4526
Undeveloped Runoff Coefficient (Cu)	0.5452
Developed Runoff Coefficient (Cd)	0.8823
Time of Concentration (min)	9.0
Clear Peak Flow Rate (cfs)	0.1438
Burned Peak Flow Rate (cfs)	0.1438
24-Hr Clear Runoff Volume (ac-ft)	0.0256
24-Hr Clear Runoff Volume (cu-ft)	1117.0416



Peak Flow Hydrologic Analysis

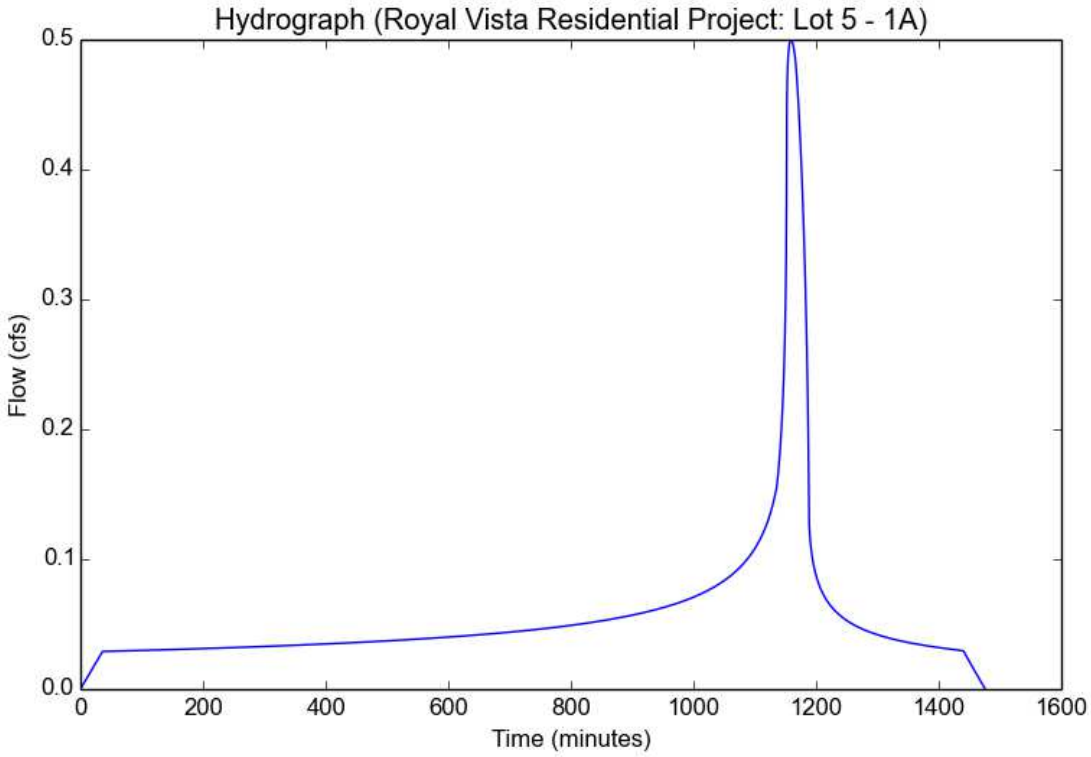
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 5/Royal Vista Golf Club Hydrocalc - Lot 5 - 85th Percentile_2021-07-06.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 5 - 1A
Area (ac)	4.12
Flow Path Length (ft)	878.35
Flow Path Slope (vft/hft)	0.06
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.27
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.2359
Undeveloped Runoff Coefficient (Cu)	0.3717
Developed Runoff Coefficient (Cd)	0.5144
Time of Concentration (min)	36.0
Clear Peak Flow Rate (cfs)	0.4999
Burned Peak Flow Rate (cfs)	0.4999
24-Hr Clear Runoff Volume (ac-ft)	0.1154
24-Hr Clear Runoff Volume (cu-ft)	5027.8019



Peak Flow Hydrologic Analysis

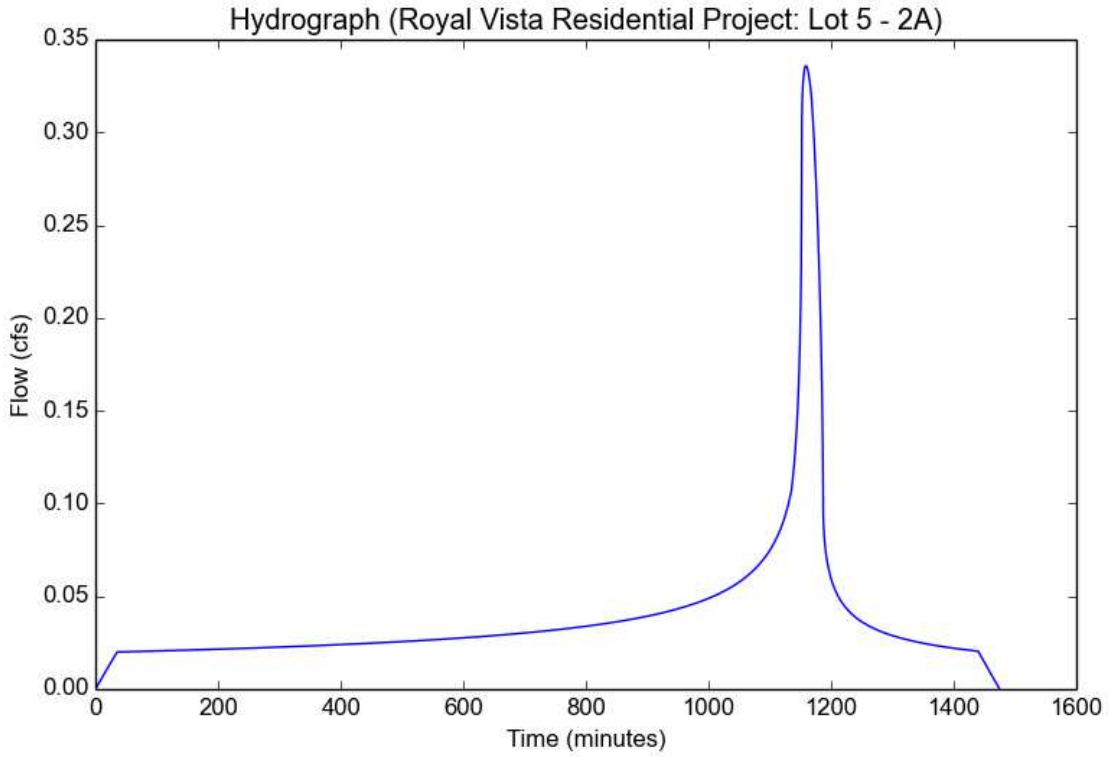
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 5/Royal Vista Golf Club Hydrocalc - Lot 5 - 85th Percentile_2021-07-06.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 5 - 2A
Area (ac)	2.64
Flow Path Length (ft)	965.83
Flow Path Slope (vft/hft)	0.08
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.3
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.2391
Undeveloped Runoff Coefficient (Cu)	0.3746
Developed Runoff Coefficient (Cd)	0.5322
Time of Concentration (min)	35.0
Clear Peak Flow Rate (cfs)	0.3359
Burned Peak Flow Rate (cfs)	0.3359
24-Hr Clear Runoff Volume (ac-ft)	0.079
24-Hr Clear Runoff Volume (cu-ft)	3443.0594



Peak Flow Hydrologic Analysis

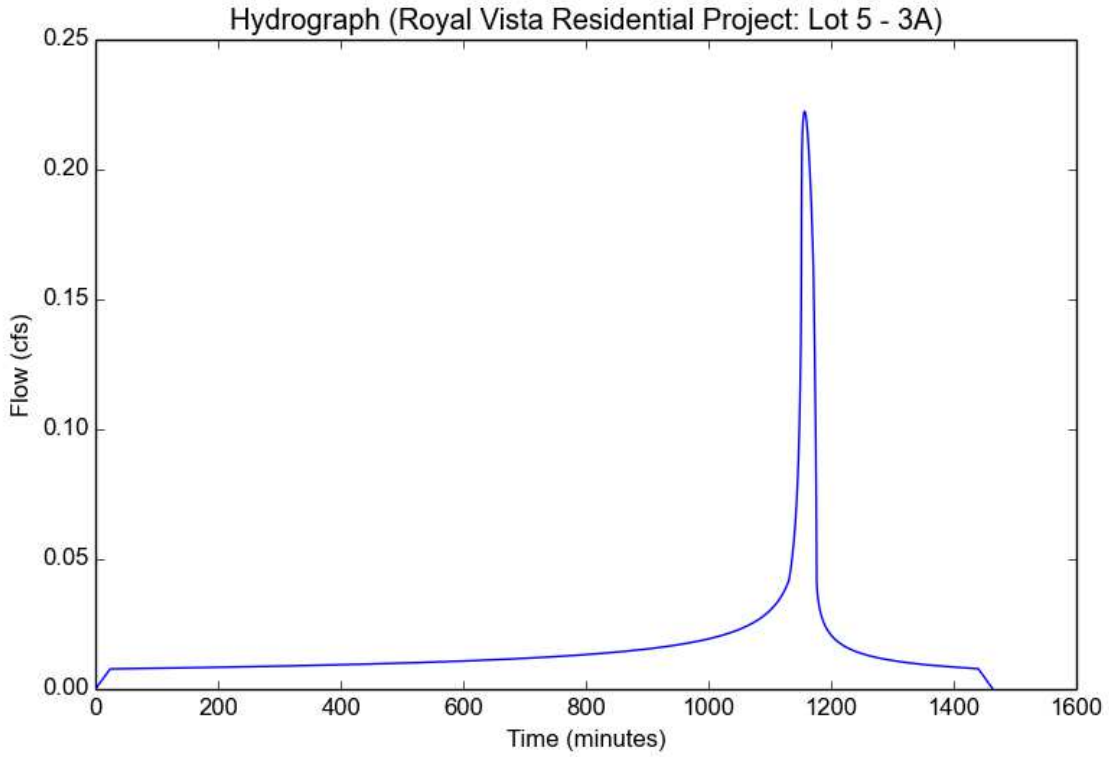
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 5/Royal Vista Golf Club Hydrocalc - Lot 5 - 85th Percentile_2021-07-06.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 5 - 3A
Area (ac)	1.59
Flow Path Length (ft)	451.26
Flow Path Slope (vft/hft)	0.06
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.15
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.2854
Undeveloped Runoff Coefficient (Cu)	0.4176
Developed Runoff Coefficient (Cd)	0.49
Time of Concentration (min)	24.0
Clear Peak Flow Rate (cfs)	0.2224
Burned Peak Flow Rate (cfs)	0.2224
24-Hr Clear Runoff Volume (ac-ft)	0.0328
24-Hr Clear Runoff Volume (cu-ft)	1427.0126



Peak Flow Hydrologic Analysis

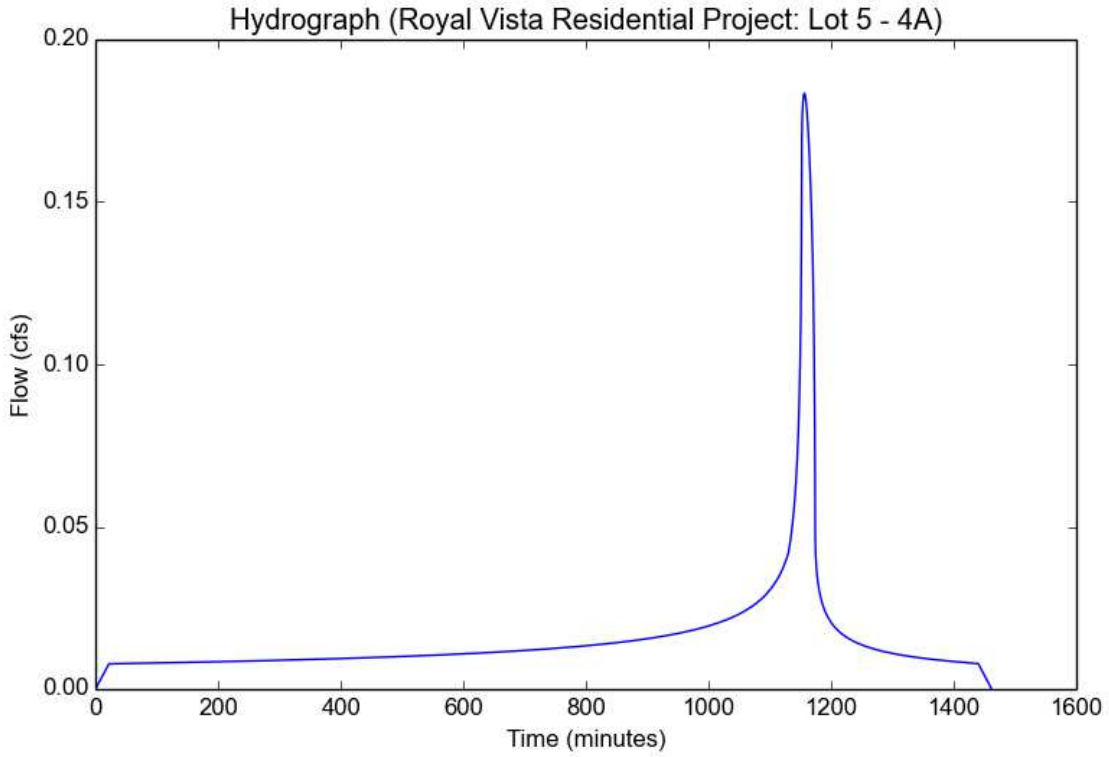
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 5/Royal Vista Golf Club Hydrocalc - Lot 5 - 85th Percentile_2021-07-06.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 5 - 4A
Area (ac)	1.11
Flow Path Length (ft)	457.65
Flow Path Slope (vft/hft)	0.07
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.27
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.2974
Undeveloped Runoff Coefficient (Cu)	0.4286
Developed Runoff Coefficient (Cd)	0.5559
Time of Concentration (min)	22.0
Clear Peak Flow Rate (cfs)	0.1835
Burned Peak Flow Rate (cfs)	0.1835
24-Hr Clear Runoff Volume (ac-ft)	0.0313
24-Hr Clear Runoff Volume (cu-ft)	1364.5566



Peak Flow Hydrologic Analysis

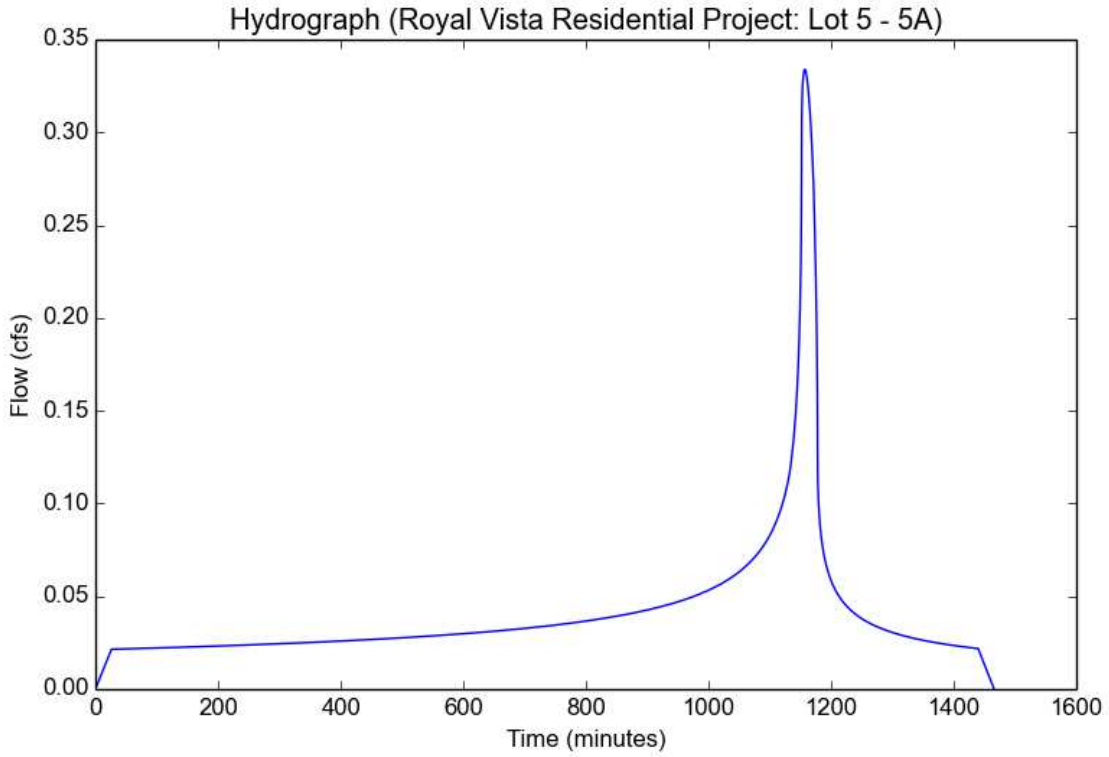
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 1/Royal Vista Residential Project Report Lots 1 and 5.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 5 - 5A
Area (ac)	1.79
Flow Path Length (ft)	737.61
Flow Path Slope (vft/hft)	0.06
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.55
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.2749
Undeveloped Runoff Coefficient (Cu)	0.4078
Developed Runoff Coefficient (Cd)	0.6785
Time of Concentration (min)	26.0
Clear Peak Flow Rate (cfs)	0.3339
Burned Peak Flow Rate (cfs)	0.3339
24-Hr Clear Runoff Volume (ac-ft)	0.0822
24-Hr Clear Runoff Volume (cu-ft)	3578.5144



Peak Flow Hydrologic Analysis

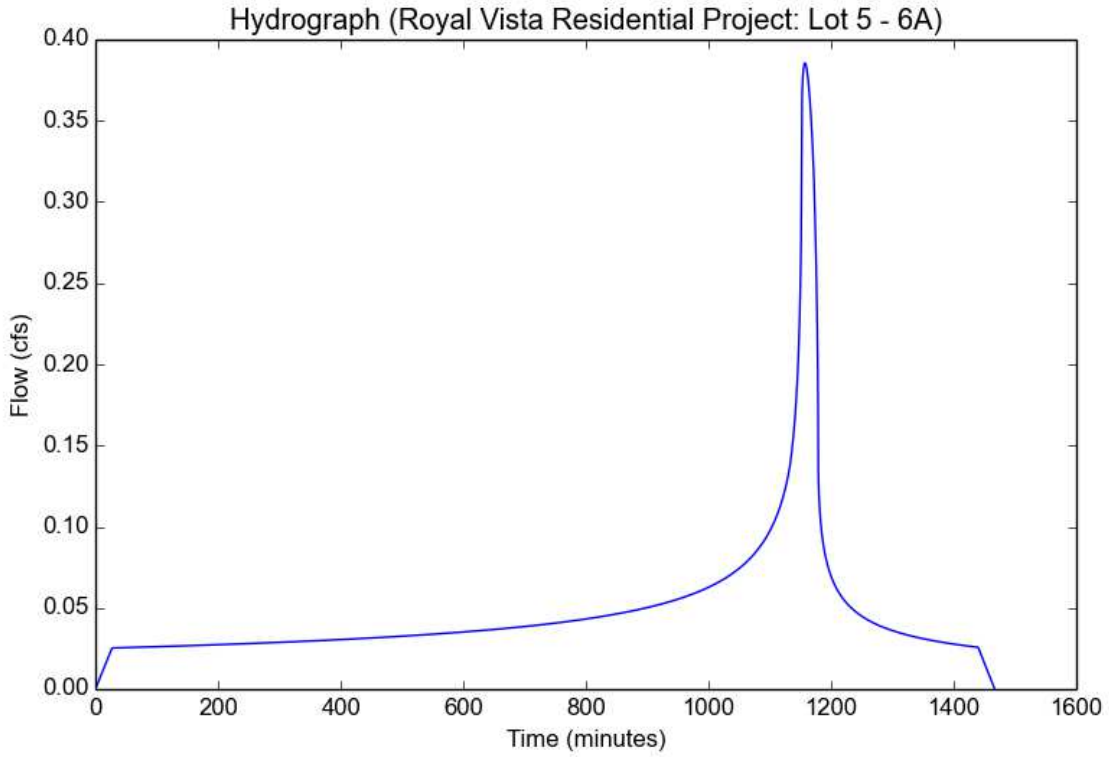
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 1/Royal Vista Residential Project Report Lots 1 and 5.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 5 - 6A
Area (ac)	2.11
Flow Path Length (ft)	724.71
Flow Path Slope (vft/hft)	0.05
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.55
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.2701
Undeveloped Runoff Coefficient (Cu)	0.4034
Developed Runoff Coefficient (Cd)	0.6765
Time of Concentration (min)	27.0
Clear Peak Flow Rate (cfs)	0.3855
Burned Peak Flow Rate (cfs)	0.3855
24-Hr Clear Runoff Volume (ac-ft)	0.0968
24-Hr Clear Runoff Volume (cu-ft)	4217.509



Peak Flow Hydrologic Analysis

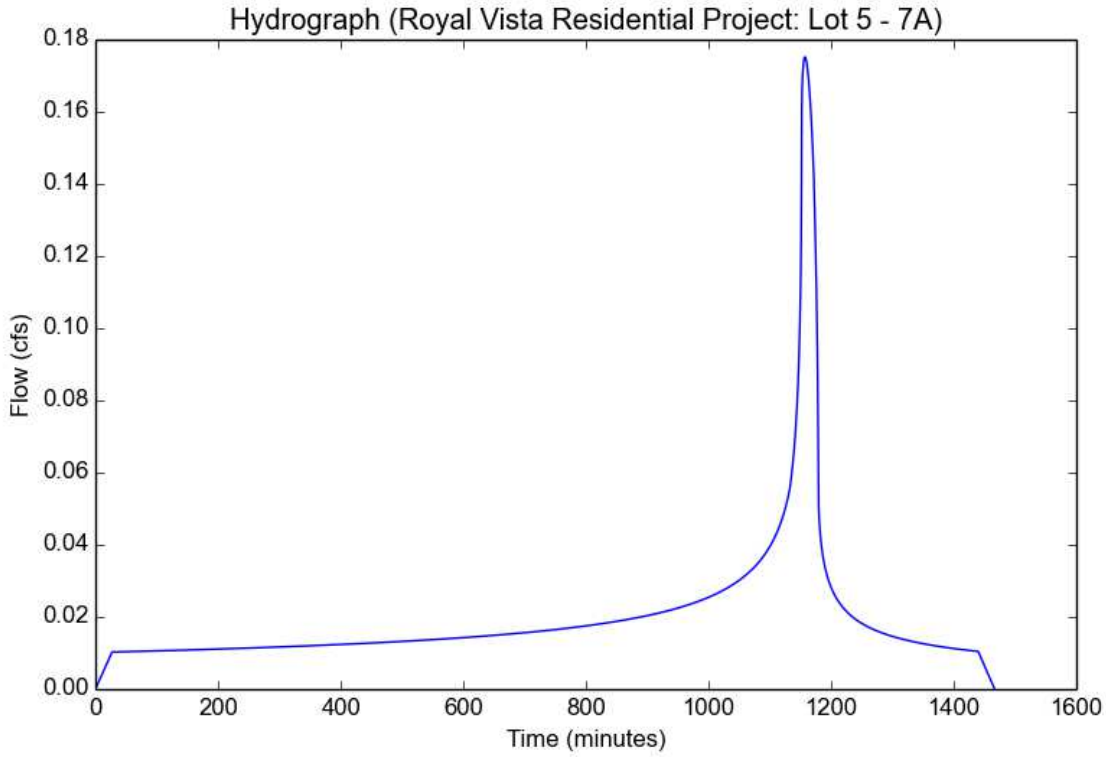
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 5/Royal Vista Golf Club Hydrocalc - Lot 5 - 85th Percentile_2021-07-06.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 5 - 7A
Area (ac)	1.06
Flow Path Length (ft)	636.79
Flow Path Slope (vft/hft)	0.05
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.42
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.2701
Undeveloped Runoff Coefficient (Cu)	0.4034
Developed Runoff Coefficient (Cd)	0.6119
Time of Concentration (min)	27.0
Clear Peak Flow Rate (cfs)	0.1752
Burned Peak Flow Rate (cfs)	0.1752
24-Hr Clear Runoff Volume (ac-ft)	0.0399
24-Hr Clear Runoff Volume (cu-ft)	1738.6623



Peak Flow Hydrologic Analysis

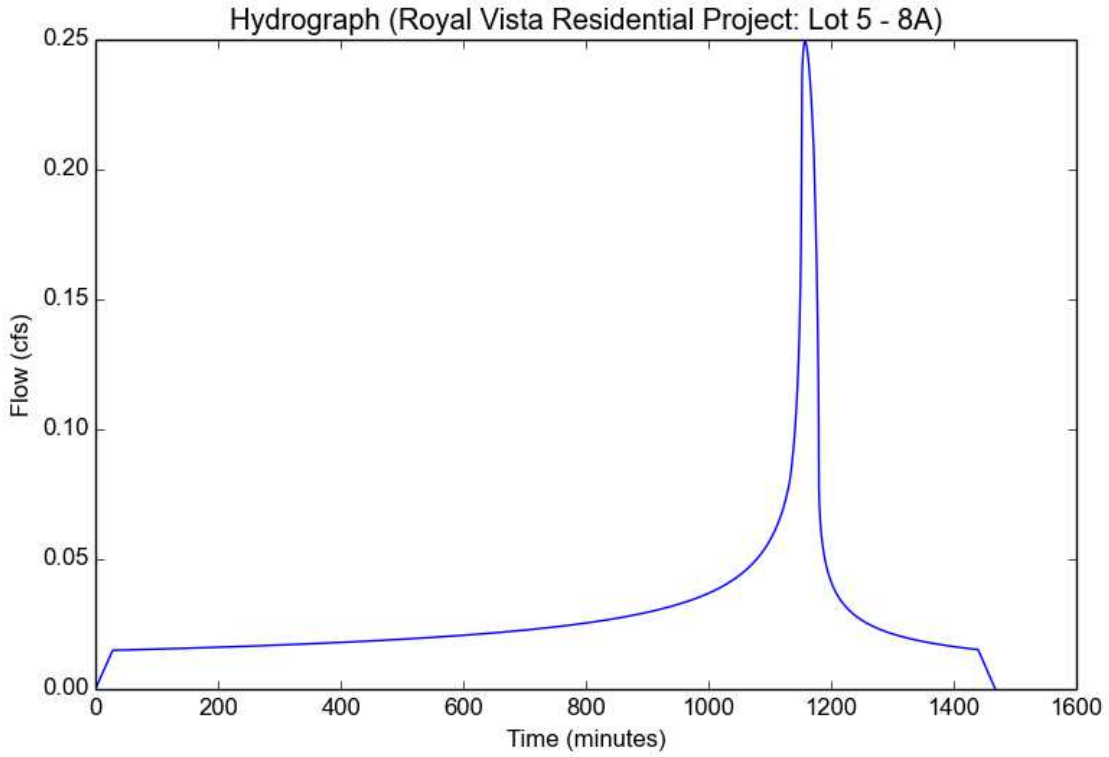
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 5/Royal Vista Golf Club Hydrocalc - Lot 5 - 85th Percentile_2021-07-06.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 5 - 8A
Area (ac)	1.54
Flow Path Length (ft)	648.76
Flow Path Slope (vft/hft)	0.04
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.42
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.2655
Undeveloped Runoff Coefficient (Cu)	0.3991
Developed Runoff Coefficient (Cd)	0.6095
Time of Concentration (min)	28.0
Clear Peak Flow Rate (cfs)	0.2492
Burned Peak Flow Rate (cfs)	0.2492
24-Hr Clear Runoff Volume (ac-ft)	0.058
24-Hr Clear Runoff Volume (cu-ft)	2525.2756



Peak Flow Hydrologic Analysis

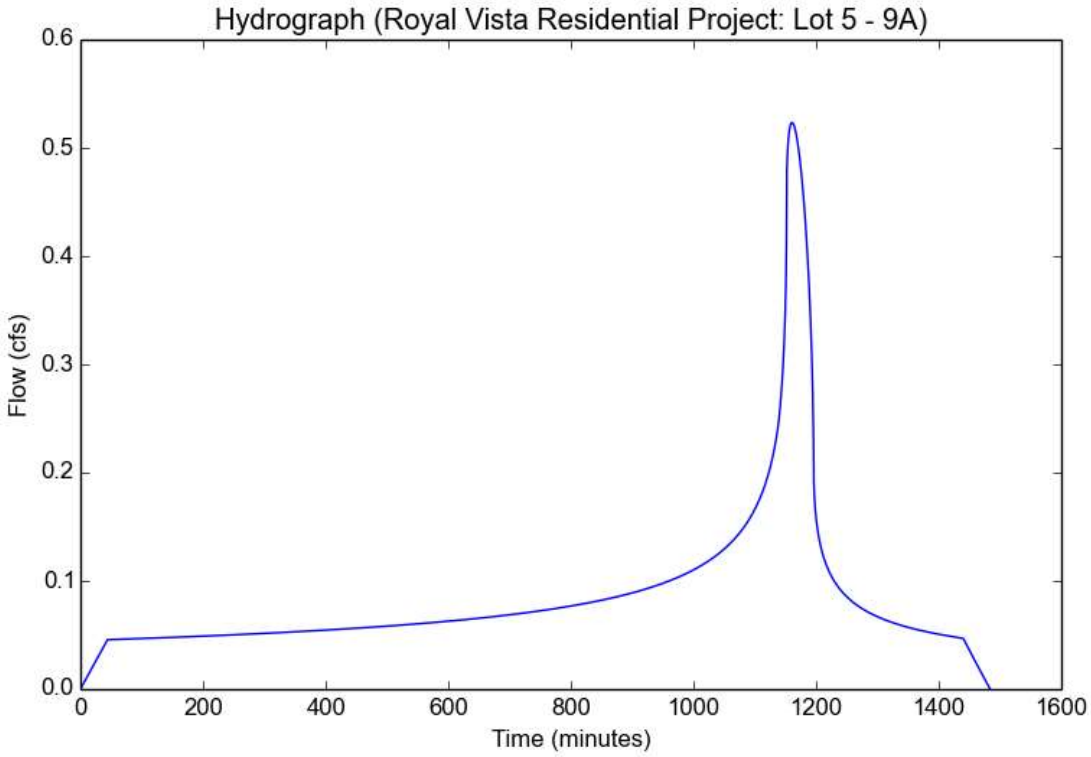
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 1/Royal Vista Residential Project Report Lots 1 and 5.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 5 - 9A
Area (ac)	3.79
Flow Path Length (ft)	1378.06
Flow Path Slope (vft/hft)	0.04
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.55
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.2147
Undeveloped Runoff Coefficient (Cu)	0.3292
Developed Runoff Coefficient (Cd)	0.6431
Time of Concentration (min)	44.0
Clear Peak Flow Rate (cfs)	0.5233
Burned Peak Flow Rate (cfs)	0.5233
24-Hr Clear Runoff Volume (ac-ft)	0.173
24-Hr Clear Runoff Volume (cu-ft)	7536.9168



Peak Flow Hydrologic Analysis

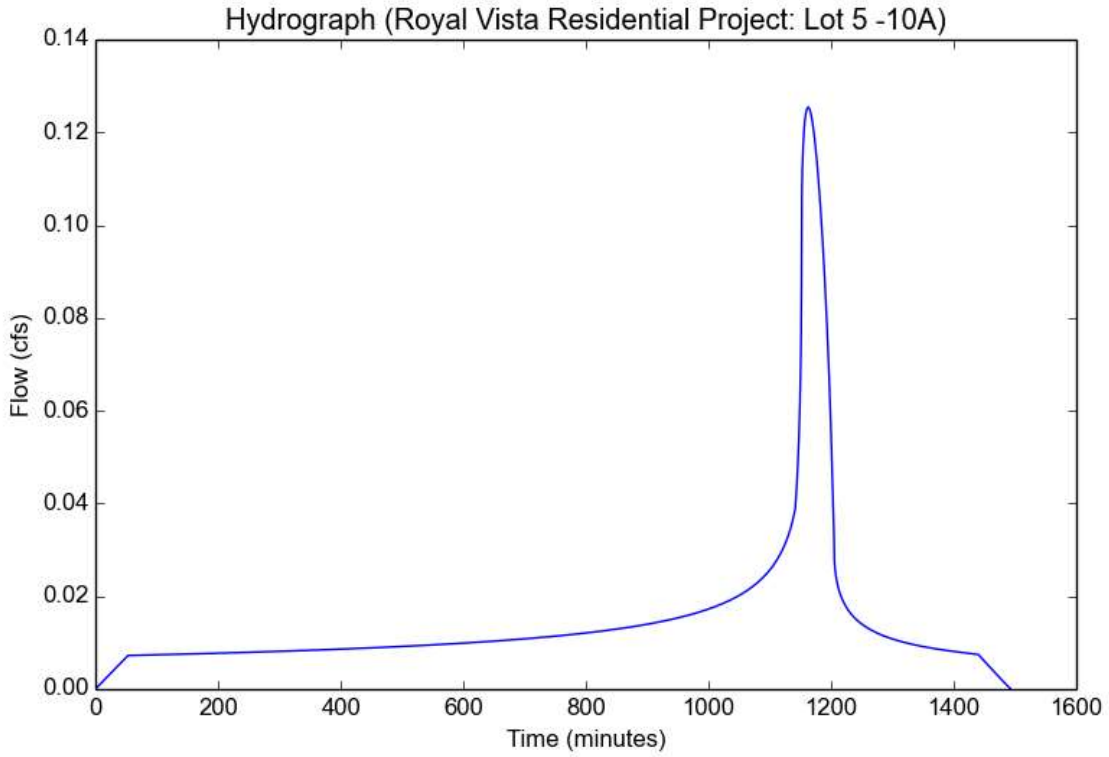
File location: F:/Projects/662/004/_Support Files/Reports/LID/Hydrocalc/Lot 1/Royal Vista Residential Project Report Lots 1 and 5.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Royal Vista Residential Project
Subarea ID	Lot 5 -10A
Area (ac)	1.86
Flow Path Length (ft)	1008.4
Flow Path Slope (vft/hft)	0.05
85th Percentile Rainfall Depth (in)	1.0
Percent Impervious	0.093
Soil Type	2
Design Storm Frequency	85th percentile storm
Fire Factor	0
LID	True

Output Results

Modeled (85th percentile storm) Rainfall Depth (in)	1.0
Peak Intensity (in/hr)	0.1967
Undeveloped Runoff Coefficient (Cu)	0.2856
Developed Runoff Coefficient (Cd)	0.3428
Time of Concentration (min)	53.0
Clear Peak Flow Rate (cfs)	0.1254
Burned Peak Flow Rate (cfs)	0.1254
24-Hr Clear Runoff Volume (ac-ft)	0.0301
24-Hr Clear Runoff Volume (cu-ft)	1309.9205



Filterra Sizing Summary - Los Angeles County Equivalency Sizing Factor Criteria

Part C, Option 2: Design for Additional Capture In Lieu of Volume Reduction

Source: Los Angeles Regional Water Quality Control Board. Approval of alternative biofiltration specification (Filterra Bioretention System) Pursuant to Part VI.D.7.c.iii(1)(b)(i) of the Los Angeles County Municipal Separate Storm Sewer System (MS4) Permit (NPDES Permit No. CAS004001; Order No. R4-2012-0175). October 9, 2017.

Project: Royal Vista Residential Project
Date: 3/27/2023

ASSUMPTIONS

Soil Type =	2	
Project Site 85th Percentile Storm Depth =	1	inches
LAX 85th Percentile Storm Depth =	1.02	inches, for reference only (do not change)
Site Scaling Factor =	0.98	in/hr (calculated)
Filterra Hydraulic Loading Capacity =	1.45	gpm/ft^2
Design Infiltration Rate =	0	inches per hour

Drainage Area ID	Sub-Area ID	Land Use	Tributary Area (ft^2)	Tributary Area (ac)	Percent Impervious	Runoff Coefficient	Time of Concentration (Tc, minutes)	Filterra Design Precipitation Intensity per Design Table 3 (in/hr)	Site Scaling Factor (unitless)	Design Rainfall Intensity for Equivalent Long-Term Capture (in/hr)	Filterra Treatment Flow Rate Required (cfs)	Minimum Required Filterra Surface Area (ft^2)	Filterra Model(s) Needed	Alternative Model	Alternative Model
Lot 1	1C	RESIDENTIAL	85,813.5	1.97	42.0%	0.60	30	0.34	0.98	0.3197	**0.396**	123.0	8x16 Model		
Lot 1	1D	LANDSCAPING	108,275.0	2.49	5.0%	0.39	30	0.34	0.98	0.3197	**0.328**	102.0	8x14 Model		
Lot 1	1E	LANDSCAPING	58,319.6	1.34	5.0%	0.42	29	0.34	0.98	0.3209	**0.189**	59.0	6x10 Model		
Lot 1	1F	LANDSCAPING	132,068.1	3.03	17.0%	0.45	30	0.34	0.98	0.3197	**0.460**	143.0	8x18 Model		
Lot 1	2C	RESIDENTIAL	39,992.1	0.92	55.0%	0.69	20	0.37	0.98	0.3407	**0.2316**	72.0	6x12 Model	N/A	No change
Lot 1	3C	RESIDENTIAL	49,969.3	1.15	55.0%	0.68	26	0.35	0.98	0.3257	**0.2698**	84.0	7x13 Model	N/A	No change
Lot 1	4C	RESIDENTIAL	124,575.2	2.86	55.0%	0.68	25	0.36	0.98	0.3277	**0.6918**	215.0	8x14 Model (2 units)	N/A	No change
Lot 1	5C	RESIDENTIAL	92,229.4	2.12	12.4%	0.45	28	0.35	0.98	0.3223	**0.3295**	103.0	8x16 Model	N/A	No change
Lot 1	6C	RESIDENTIAL	33,218.1	0.76	42.0%	0.73	21	0.37	0.98	0.3377	**0.203**	63.0	6x12 Model		
Lot 1	7C	RESIDENTIAL	64,098.3	1.47	55.0%	0.69	22	0.36	0.98	0.3349	**0.3612**	112.0	8x14 Model	N/A	No change
Lot 1	8C	RESIDENTIAL	47,439.2	1.09	55.0%	0.69	23	0.36	0.98	0.3323	**0.2673**	83.0	7x13 Model	N/A	No change
Lot 1	9C	RESIDENTIAL	44,195.6	1.01	42.0%	0.63	22	0.36	0.98	0.3349	**0.226**	71.0	6x12 Model		
Lot 1	10C	RESIDENTIAL	74,218.2	1.70	42.0%	0.61	26	0.35	0.98	0.3257	**0.362**	113.0	8x16 Model		
Lot 1	11C	RESIDENTIAL	64,989.6	1.49	42.0%	0.61	26	0.35	0.98	0.3257	**0.317**	99.0	8x14 Model		
Lot 1	12C	RESIDENTIAL	108,073.2	2.48	49.2%	0.65	26	0.35	0.98	0.3257	**0.5578**	173.0	8x12 Model (2 units)	7x13 Model (2 units)	smaller
Lot 1	13C	RESIDENTIAL	129,647.3	2.98	42.0%	0.59	30	0.34	0.98	0.3197	**0.586**	182.0	7x13 Model (2 units)		
Lot 1	14C	RESIDENTIAL	192,273.8	4.41	35.0%	0.53	30	0.34	0.98	0.3197	**0.790**	245.0	7x13 Model (3 units)		
Lot 1	15C	RESIDENTIAL	48,846.5	1.12	42.0%	0.62	23	0.36	0.98	0.3323	**0.249**	77.0	7x13 Model		
Lot 2	2F	RESIDENTIAL	77,333.9	1.78	42.0%	0.63	22	0.36	0.98	0.3349	**0.396**	123.0	8x16 Model		
Lot 2	3F	RESIDENTIAL	79,514.4	1.83	42.0%	0.63	22	0.36	0.98	0.3349	**0.407**	126.0	8x16 Model		
Lot 2	4F	RESIDENTIAL	97,964.4	2.25	42.0%	0.62	25	0.36	0.98	0.3277	**0.494**	153.0	7x13 (2 units)		
Lot 2	5F	RESIDENTIAL	7,445.7	0.17	42.0%	0.70	8	0.42	0.98	0.3923	**0.050**	16.0	4x4 Model		
Lot 3	2H	RESIDENTIAL	108,013.1	2.60	2.0%	0.17	30	0.34	0.98	0.3197	**0.1485**	46.0	6x12 Model	6x8 Model	smaller
Lot 3	1H	RESIDENTIAL	28,468.6	0.65	55.0%	0.72	12	0.40	0.98	0.3719	**0.1860**	58.0	6x12 Model	6x10 Model	smaller
Lot 3	3H	RESIDENTIAL	15,507.7	0.36	55.0%	0.73	10	0.41	0.98	0.3817	**0.1053**	33.0	6x8 Model	6x6 Model	smaller
Lot 3	4H	RESIDENTIAL	25,100.0	0.58	55.0%	0.72	11	0.41	0.98	0.3767	**0.1681**	53.0	6x12 Model	6x10 Model	smaller
Lot 3	5H	RESIDENTIAL	25,100.0	0.57	55.0%	0.73	10	0.41	0.98	0.3817	**0.1686**	53.0	6x12 Model	6x10 Model	smaller
Lot 3	6H	RESIDENTIAL	25,100.0	0.57	55.0%	0.73	10	0.41	0.98	0.3817	**0.1686**	53.0	6x12 Model	6x10 Model	smaller
Lot 3	7H	RESIDENTIAL	25,100.0	0.57	55.0%	0.73	10	0.41	0.98	0.3817	**0.1686**	53.0	6x12 Model	6x10 Model	smaller
Lot 3	8H	RESIDENTIAL	13,762.5	0.32	5.0%	0.74	9	0.42	0.98	0.3869	**0.0970**	31.0	6x6 Model	4x8 Model	smaller
Lot 3	9H	RESIDENTIAL	15,609.3	0.36	5.0%	0.73	9	0.42	0.98	0.3869	**0.1086**	34.0	6x8 Model	6x6 Model	smaller
Lot 3	10H	RESIDENTIAL	12,634.3	0.32	55.0%	0.73	10	0.41	0.98	0.3817	**0.0946**	30.0	6x6 Model	4x8 Model	smaller
Lot 5	1A	RESIDENTIAL	179,384.3	4.12	27.0%	0.51	30	0.34	0.98	0.3197	**0.712**	221.0	8x14 Model (2 units)		
Lot 5	2A	RESIDENTIAL	115,062.7	2.64	30.0%	0.53	30	0.34	0.98	0.3197	**0.472**	147.0	8x20 Model		
Lot 5	3A	RESIDENTIAL	69,236.6	1.59	15.0%	0.42	24	0.36	0.98	0.3299	**0.236**	74.0	7x13 Model		
Lot 5	4A	RESIDENTIAL	48,532.2	1.11	27.0%	0.56	22	0.36	0.98	0.3349	**0.220**	69.0	6x12 Model		
Lot 5	5A	RESIDENTIAL	78,018.2	1.79	55.0%	0.68	28	0.35	0.98	0.3223	**0.4212**	131.0	8x18 Model	8x18 Model	bigger
Lot 5	6A	RESIDENTIAL	91,947.5	2.11	55.0%	0.68	29	0.34	0.98	0.3209	**0.4822**	150.0	8x20 Model	8x20 Model	bigger
Lot 5	7A	RESIDENTIAL	46,110.3	1.06	42.0%	0.61	27	0.35	0.98	0.3239	**0.224**	70.0	6x12 Model		
Lot 5	8A	RESIDENTIAL	67,076.7	1.54	55.0%	0.64	28	0.35	0.98	0.3223	**0.3408**	106.0	8x14 Model	N/A	No change
Lot 5	9A	RESIDENTIAL	165,074.9	3.79	9.3%	0.34	30	0.34	0.98	0.3197	**0.4329**	134.0	8x18 Model	N/A	No change
Lot 5	10A	RESIDENTIAL	81,047.5	1.86	5.0%	0.29	30	0.34	0.98	0.3197	**0.184**	57.0	6x10 Model		
Lot 5	1B	LANDSCAPING	22,579.0	0.52	5.0%	0.30	30	0.34	0.98	0.3197	**0.053**	17.0	4x6 Model		

December 30, 2019

Paul Alva
Assistant Deputy Director
County of Los Angeles
900 South Fremont Avenue
Alhambra, CA 91803

VIA EMAIL

APPROVAL OF ALTERNATIVE BIOFILTRATION SPECIFICATION PURSUANT TO PART VI.D.7.c.iii.(1)(b)(i) OF THE LOS ANGELES COUNTY MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) PERMIT (NPDES PERMIT NO. CAS004001; ORDER NO. R4-2012-0175 AS AMENDED BY STATE WATER BOARD ORDER WQ 2015-0075 AND LOS ANGELES WATER BOARD ORDER R4-2012-0175-A01)

Dear Mr. Alva:

On June 20, 2019, and August 8, 2019 for the City of Lomita, the Los Angeles Regional Water Quality Control Board (Los Angeles Water Board) received a letter from the County of Los Angeles (County), on behalf of the Contract Cities,[1] requesting approval for the use of Filterra Bioretention Systems (Filterra) manufactured by Contech Engineered Solutions LLC as an alternative biofiltration design specification.

The County's request includes an excerpt from a document entitled "Filterra Equivalency Analysis and Design Criteria" (Equivalency Analysis) as an attachment, that details a proposed design approach and equivalency criteria for Filterra to achieve equivalent performance to the biofiltration design specifications defined in the Los Angeles County MS4 Permit.

Pursuant to Part VI.D.7.c.iii.(1)(b)(i) of the Los Angeles County MS4 Permit, projects using biofiltration as an alternative compliance measure may use alternative design

[1] The County of Los Angeles provides land development review services for the cities of Carson, Irwindale, La Cañada Flintridge, Lomita, Rolling Hills Estates and Westlake Village (Contract Cities).

specifications for on-site biofiltration systems if approved by the Los Angeles Water Board Executive Officer.

Background

Part VI.D.7 of the Los Angeles County MS4 Permit requires Permittees to implement a Planning and Land Development Program. As part of this program, Permittees shall require all New Development and Redevelopment projects identified in Part VI.D.7.b (hereinafter "new projects") to control pollutants, pollutant loads, and runoff volume emanating from the project site. Except as provided in Part VI.D.7.c.ii (Technical Infeasibility or Opportunity for Regional Ground Water Replenishment), Part VI.D.7.d.i (Local Ordinance Equivalence), or Part VI.D.7.c.v (Hydromodification), each Permittee shall require new projects to retain on-site the Stormwater Quality Design Volume (SWQDv).

Pursuant to Part VI.D.7.c.iii.(1) of the Los Angeles County MS4 Permit, Permittees may allow new projects to use on-site biofiltration when the project applicant has demonstrated that it is technically infeasible to retain 100 percent of the Stormwater Quality Design Volume (SWQDv) on-site. If a Permittee conditions a project using biofiltration due to demonstrated technical infeasibility, then the new project must biofiltrate 1.5 times the portion of the SWQDv that is not reliably retained on-site, as calculated by the following equation:

$$Bv = 1.5\,[SWQDv - Rv]$$

Where: *Bv = biofiltration volume*
SWQDv = the stormwater runoff from a 0.75 inch, 24-hour storm or the 85th percentile storm, whichever is greater
Rv = volume reliably retained on-site

As a condition for on-site biofiltration, bioretention/biofiltration systems shall meet the design specifications provided in Attachment H of the Los Angeles County MS4 Permit unless otherwise approved by the Los Angeles Board Executive Officer.

Public Review

On September 30, 2019, the Los Angeles Water Board provided public notice and a 30-day period to allow for public review and written comment on the proposed use of Filterra alternative biofiltration design specification. No comments were received.

Alternative Biofiltration Specification Approval

I hereby approve the County's proposal for the use of Filterra as an alternative on-site biofiltration design specification pursuant to Part VI.D.7.c.iii(1)(b)(i) of the Los Angeles County MS4 Permit, provided the following conditions are met:

1. **Sizing**: The County shall verify the appropriateness of the recommended loading rates used in the "Filterra Equivalency Analysis and Design Criteria".

   If the County finds no issues with the loading rate, Filterra systems must be designed and sized following the methodology in Section 4 of the August 2015 report entitled "Filterra Equivalency Analysis and Design Criteria".

   If the County finds that the recommended loading rate is too high, Filterra systems must be designed and sized to account for an appropriate lower loading rate.

2. **O&M**: Operation and maintenance of Filterra systems must be conducted consistent with the recommendations in the Filterra maintenance manual provided by the manufacturer and any revisions thereto.

3. **Media**: Filterra systems use an engineered biofiltration media. Filterra systems, including the engineered biofiltration media, must be provided by the manufacturer. No substitution of materials/media is allowed.

4. **Hydromodification**: There is no presumption by this approval that a Permittee's implementation of the abovementioned design parameters and use specifications of the Filterra system meet the separate hydromodification requirements of Section VI.D.7.c.iv of the Los Angeles County MS4 Permit. Hydromodification requirements apply regardless of the type of biofiltration system used.

This approval only applies to the use of Filterra as an alternative on-site biofiltration design in situations where a project applicant has demonstrated that it is technically infeasible to retain 100 percent of the SWQDv on-site. Furthermore, this approval does not constitute certification or verification of the performance of the Filterra since the Los Angeles Water Board does not have a testing and certification program for treatment control BMPs. This approval is given based on the supporting documentation provided in the request and relies on the County's review of the system.

The County shall comply with Maintenance Agreement and Transfer requirements outlined in Part VI.D.7.d.iii of the Los Angeles County MS4 Permit. These requirements include:

1. Part VI.D.7.d.iii – prior to issuing approval for final occupancy, the County shall require new development and redevelopment projects subject to post-construction BMP requirements to provide an operation and maintenance plan; monitoring plan, where required; and verification of ongoing maintenance provisions for LID practices, treatment control BMPs, and hydromodification control BMPs.

2. Part VI.D.7.d.iii.(1)(a) – verification of post-construction BMP maintenance agreement shall include all the documents included in this provision.

3. Part VI.D.7.d.iii.(1)(b) – the County shall ensure a plan is developed for the operation and maintenance of all structural and treatment controls. The County shall examine the plan for relevance to keeping the BMPs in proper working order. Furthermore, operation and maintenance plans for private BMPs shall be kept on-site for periodic review by County inspectors.

4. Part VI.D.7.d.iv.(c) – the County shall verify proper maintenance and operation of post-construction BMPs operated by the County.

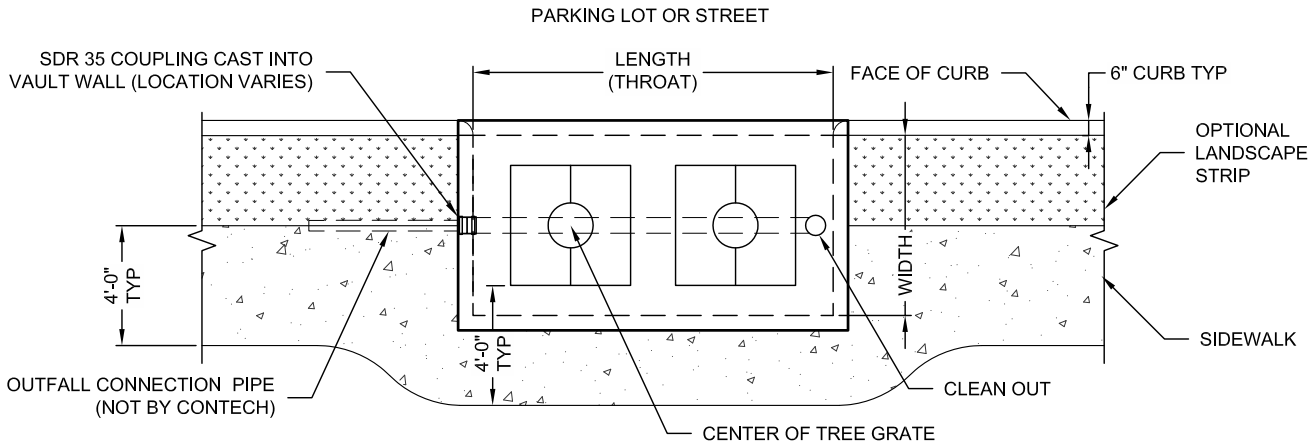
5. Part VI.D.7.d.iv.(d) – for post-construction BMPs operated and maintained by parties other than the County, the County shall require the other parties to document proper maintenance and operations.

6. Part VI.D.7.d.iv.(e) – the County shall undertake any enforcement as appropriate per the established progressive enforcement policy.

If you have any questions, please contact Ms. Susana Vargas of the Storm Water Permitting Unit at Susana.Vargas@waterboards.ca.gov or by phone at (213) 576-6688. Alternatively, you may also contact Ivar Ridgeway, Chief of the Storm Water Permitting Unit, at Ivar.Ridgeway@waterboards.ca.gov or by phone at (213) 620-2150.

Sincerely,

Renee Purdy
Executive Officer



DESIGNATION	SIZE	LENGTH (THROAT)	WIDTH	(QTY) TREE GRATE
FT0404	4 x 4	4'-0"	4'-0"	(1) 3' x 3'
FT0604	6 x 4	6'-0"	4'-0"	(1) 3' x 3'
FT0606	6 x 6	6'-0"	6'-0"	(1) 3' x 3'
FT0804	8 x 4	8'-0"	4'-0"	(1) 3' x 3'
FT0806	8 x 6	8'-0"	6'-0"	(1) 3' x 3'
FT1006	10 x 6	10'-0"	6'-0"	(1) 4' x 4' *
FT1204	12 x 4	12'-0"	4'-0"	(2) 3' x 3'
FT1206	12 x 6	12'-0"	6'-0"	(2) 4' x 4' *
FT1307	13 x 7	13'-0"	7'-0"	(2) 4' x 4' *

* 3' x 3' TREE GRATE OPTIONAL

filterra®

THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 6,277,274; 6,569,321; 7,625,485; 7,425,261; 7,833,412; RELATED FOREIGN PATENTS.

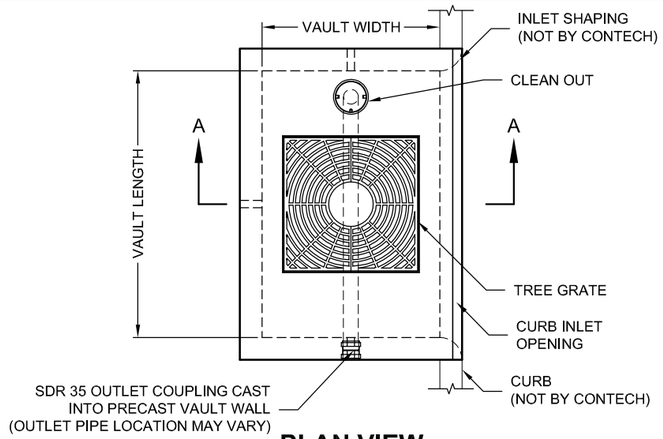
The design and information shown on this drawing is provided as a service to the project owner, engineer and contractor by Contech Engineered Solutions LLC or one of its affiliated companies ("Contech"). Neither this drawing, nor any part thereof, may be used, reproduced or modified in any manner without the prior written consent of Contech. Failure to comply is done at the user's own risk and Contech expressly disclaims any liability or responsibility for such use. If discrepancies between the supplied information upon which the drawing is based and actual field conditions are encountered as site work progresses, these discrepancies must be reported to Contech immediately for re-evaluation of the design. Contech accepts no liability for designs based on missing, incomplete or inaccurate information supplied by others.

CONTECH® ENGINEERED SOLUTIONS LLC
www.ContechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

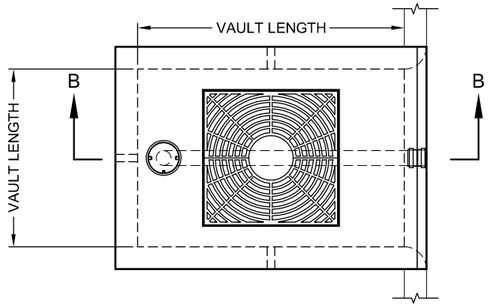
FILTERRA TYPICAL SIDEWALK CONFIGURATION

DATE: 03/04/15	FILE NAME: FILTERRA TYP SIDEWALK CONFIG DETAIL	DRAWN: SCK	CHECKED:

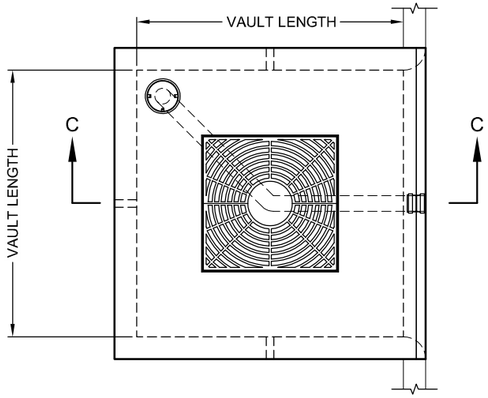
I:\COMMON\CAD\TREATMENT\54 FILTERRA\40 STANDARD DRAWINGS\OFFLINE\LAYOUT DETAILS\DWG\FILTERRA TYP SIDEWALK CONFIG DETAIL.DWG 5/1/2015 5:16 PM



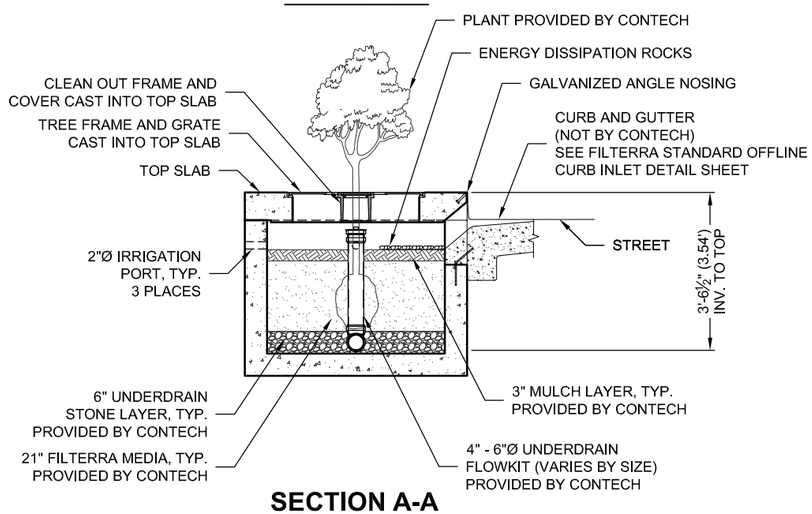
PLAN VIEW



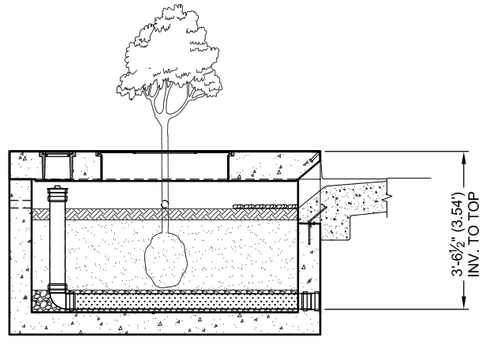
PLAN VIEW



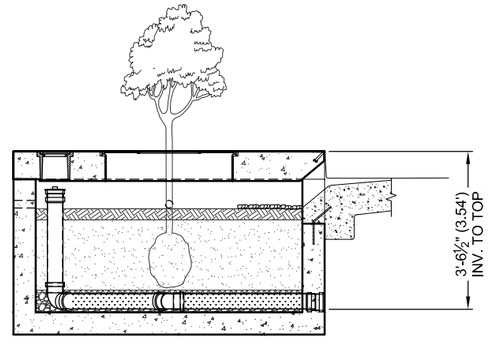
PLAN VIEW



SECTION A-A



SECTION B-B



SECTION C-C

FT LONG SIDE INLET CONFIGURATION

DESIGNATION	AVAILABILITY	MEDIA BAY SIZE	VAULT SIZE (L x W)	OUTLET PIPE DIA	TREE GRATE QTY & SIZE
FT0604	N/A CA	6 x 4	6 x 4	4" SDR 35	(1) 3' x 3'
FT06504	CA ONLY	6.5 x 4	6.5 x 4	4" SDR 35	(1) 3' x 3'
FT078045	MID-ATL ONLY	7.83 x 4.5	7.83 x 4.5	4" SDR 35	(1) 3' x 3'
FT0804	N/A MID-ATL	8 x 4	8 x 4	4" SDR 35	(1) 3' x 3'
FT0806	ALL	8 x 6	8 x 6	4" SDR 35	(1) 4' x 4'
FT1006	ALL	10 x 6	10 x 6	6" SDR 35	(1) 4' x 4'
FT1206	ALL	12 x 6	12 x 6	6" SDR 35	(2) 4' x 4'
FT1307	ALL	13 x 7	13 x 7	6" SDR 35	(2) 4' x 4'
FT1408	CALL CONTECH	14 x 8	14 x 8	6" SDR 35	(2) 4' x 4'
FT1608	CALL CONTECH	16 x 8	16 x 8	6" SDR 35	(2) 4' x 4'
FT1808	CALL CONTECH	18 x 8	18 x 8	6" SDR 35	(2) 4' x 4'
FT2008	CALL CONTECH	20 x 8	20 x 8	6" SDR 35	(3) 4' x 4'
FT2208	CALL CONTECH	22 x 8	22 x 8	6" SDR 35	(3) 4' x 4'

N/A = NOT AVAILABLE

FT SHORT SIDE INLET CONFIGURATION

DESIGNATION	AVAILABILITY	MEDIA BAY SIZE	VAULT SIZE (W x L)	OUTLET PIPE DIA	TREE GRATE QTY & SIZE
FT0406	N/A CA	4 x 6	4 x 6	4" SDR 35	(1) 3' x 3'
FT04065	CA ONLY	4 x 6.5	4 x 6.5	4" SDR 35	(1) 3' x 3'
FT0408	N/A MID-ATL	4 x 8	4 x 8	4" SDR 35	(1) 3' x 3'
FT045078	MID-ATL ONLY	4.5 x 7.83	4.5 x 7.83	4" SDR 35	(1) 3' x 3'
FT0608	ALL	6 x 8	6 x 8	4" SDR 35	(1) 4' x 4'
FT0610	ALL	6 x 10	6 x 10	6" SDR 35	(1) 4' x 4'
FT0612	ALL	6 x 12	6 x 12	6" SDR 35	(2) 4' x 4'
FT0713	ALL	7 x 13	7 x 13	6" SDR 35	(2) 4' x 4'

N/A = NOT AVAILABLE

FT SQUARE INLET CONFIGURATION

DESIGNATION	AVAILABILITY	MEDIA BAY SIZE	VAULT SIZE (W x L)	OUTLET PIPE DIA	TREE GRATE QTY & SIZE
FT0404	ALL	4 x 4	4 x 4	4" SDR 35	(1) 3' x 3'
FT0606	ALL	6 x 6	6 x 6	4" SDR 35	(1) 3' x 3'

N/A = NOT AVAILABLE

INTERNAL PIPE CONFIGURATION MAY VARY
DEPENDING UPON OUTLET LOCATION.

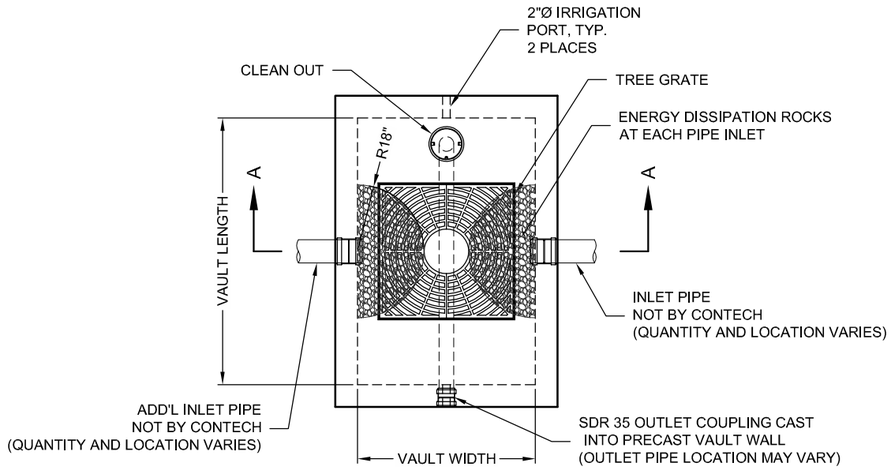
filterra®
THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 6,277,274; 6,569,321; 7,625,485; 7,425,261; 7,833,412; RELATED FOREIGN PATENTS.

The design and information shown on this drawing is provided as a service to the project owner, engineer and contractor by Contech Engineered Solutions LLC or one of its affiliated companies ("Contech"). Neither this drawing, nor any part thereof, may be used, reproduced or modified in any manner without the prior written consent of Contech. Failure to comply is done at the user's own risk and Contech expressly disclaims any liability or responsibility for such use. If discrepancies between the supplied information upon which the drawing is based and actual field conditions are encountered as site work progresses, these discrepancies must be reported to Contech immediately for re-evaluation of the design. Contech accepts no liability for designs based on missing, incomplete or inaccurate information supplied by others.

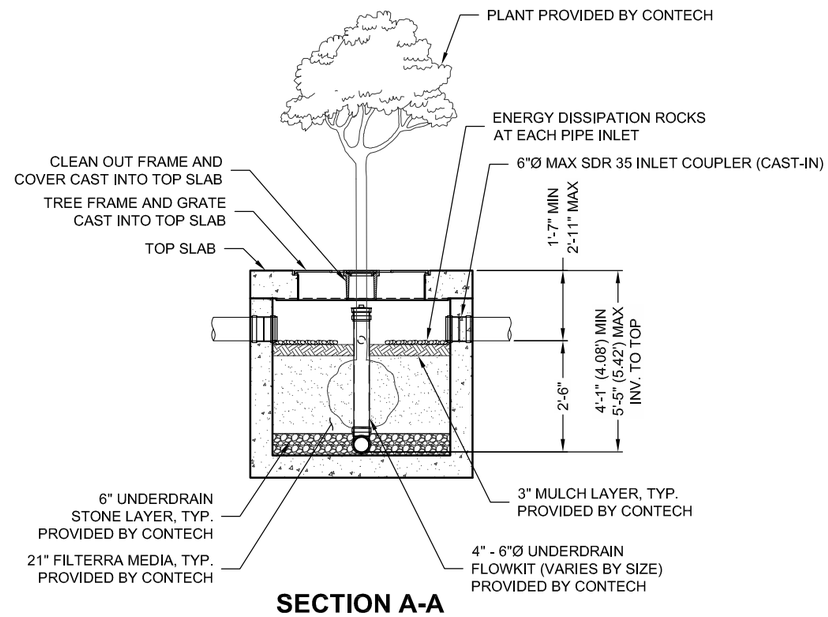
CONTECH®
ENGINEERED SOLUTIONS LLC
www.ContechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

FILTERRA OFFLINE (FT) CONFIGURATION DETAIL

I:\COMMON\CAD\TREATMENT\54 FILTERRA\40 STANDARD DRAWINGS\FT - OFFLINE\LAYOUT DETAILS\DWG\FILTERRA STANDARD OFFLINE CONFIG DTL.DWG 11/1/2017 11:31 AM



PLAN VIEW



SECTION A-A

INTERNAL PIPE CONFIGURATION MAY VARY
DEPENDING UPON OUTLET LOCATION.

FT-P STANDARD OFFLINE CONFIGURATION

DESIGNATION	AVAILABILITY	MEDIA BAY SIZE	VAULT SIZE (L x W)	OUTLET PIPE	TREE GRATE QTY & SIZE	MIN NO. OF INLET PIPES
FT0404-P	ALL	4 x 4	4 x 4	4" SDR 35	(1) 3' x 3'	1
FT0604-P	N/A CA	6 x 4	6 x 4	4" SDR 35	(1) 3' x 3'	1
FT0606-P	ALL	6 x 6	6 x 6	4" SDR 35	(1) 3' x 3'	1
FT06504-P	CA ONLY	6.5 x 4	6.5 x 4	4" SDR 35	(1) 3' x 3'	1
FT078045-P	MID-ATL ONLY	7.83 x 4.5	7.83 x 4.5	4" SDR 35	(1) 3' x 3'	1
FT0804-P	N/A MID-ATL	8 x 4	8 x 4	4" SDR 35	(1) 3' x 3'	1
FT0806-P	ALL	8 x 6	8 x 6	4" SDR 35	(1) 4' x 4'	1
FT1006-P	ALL	10 x 6	10 x 6	6" SDR 35	(1) 4' x 4'	2
FT1206-P	ALL	12 x 6	12 x 6	6" SDR 35	(2) 4' x 4'	2
FT1307-P	ALL	13 x 7	13 x 7	6" SDR 35	(2) 4' x 4'	2
FT1408-P	CALL CONTECH	14 x 8	14 x 8	6" SDR 35	(2) 4' x 4'	3
FT1608-P	CALL CONTECH	16 x 8	16 x 8	6" SDR 35	(2) 4' x 4'	3
FT1808-P	CALL CONTECH	18 x 8	18 x 8	6" SDR 35	(2) 4' x 4'	3
FT2008-P	CALL CONTECH	20 x 8	20 x 8	6" SDR 35	(3) 4' x 4'	4
FT2208-P	CALL CONTECH	22 x 8	22 x 8	6" SDR 35	(3) 4' x 4'	4

N/A = NOT AVAILABLE

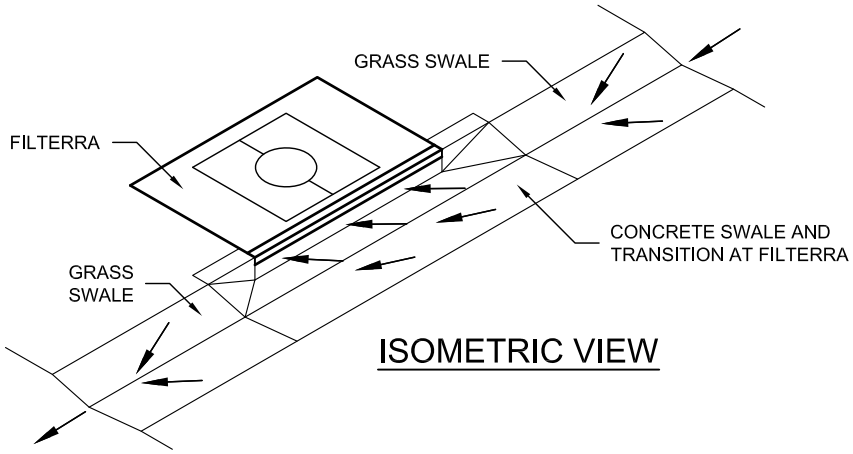
filterra®
THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 6,277,274; 6,569,321; 7,625,485; 7,425,261; 7,833,412; RELATED FOREIGN PATENTS.

The design and information shown on this drawing is provided as a service to the project owner, engineer and contractor by Contech Engineered Solutions LLC or one of its affiliated companies ("Contech"). Neither this drawing, nor any part thereof, may be used, reproduced or modified in any manner without the prior written consent of Contech. Failure to comply is done at the user's own risk and Contech expressly disclaims any liability or responsibility for such use. If discrepancies between the supplied information upon which the drawing is based and actual field conditions are encountered as site work progresses, these discrepancies must be reported to Contech immediately for re-evaluation of the design. Contech accepts no liability for designs based on missing, incomplete or inaccurate information supplied by others.

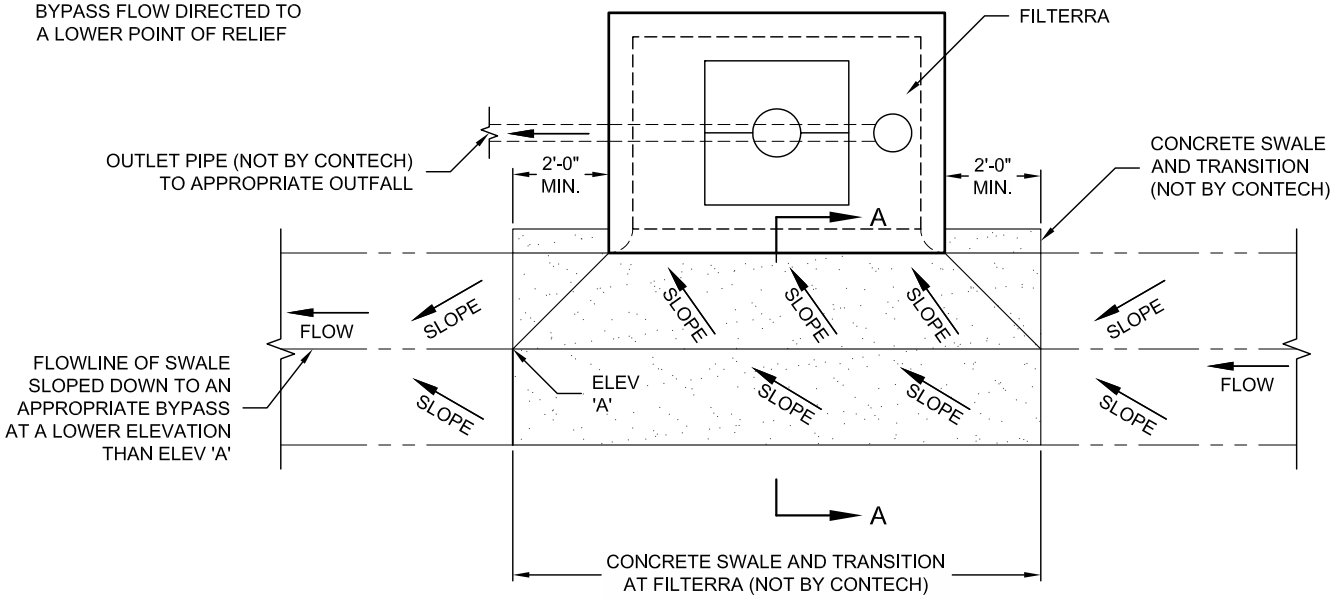
CONTECH®
ENGINEERED SOLUTIONS LLC
www.ContechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

FILTERRA OFFLINE - PIPE (FT-P) CONFIGURATION DETAIL

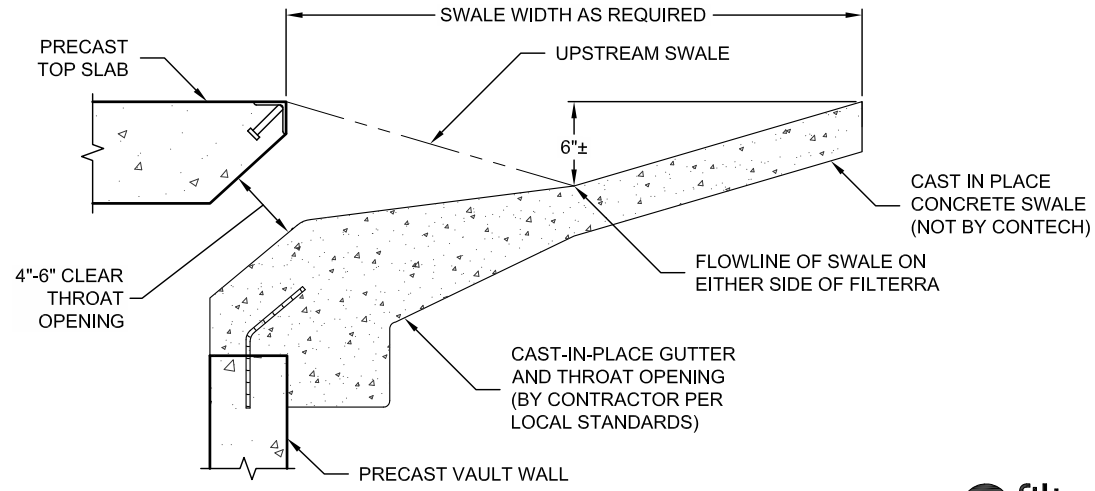
I:\COMMON\CAD\TREATMENT\54 FILTERRA\40 STANDARD DRAWINGS\FT-PIPELAYOUT DETAILSDWG\FILTERRA PIPE CONFIG DTL.DWG 11/1/2017 2:04 PM



ISOMETRIC VIEW



PLAN VIEW



SECTION A-A

filterra®

THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 6,277,274; 6,569,321; 7,625,485; 7,425,261; 7,833,412. RELATED FOREIGN PATENTS.

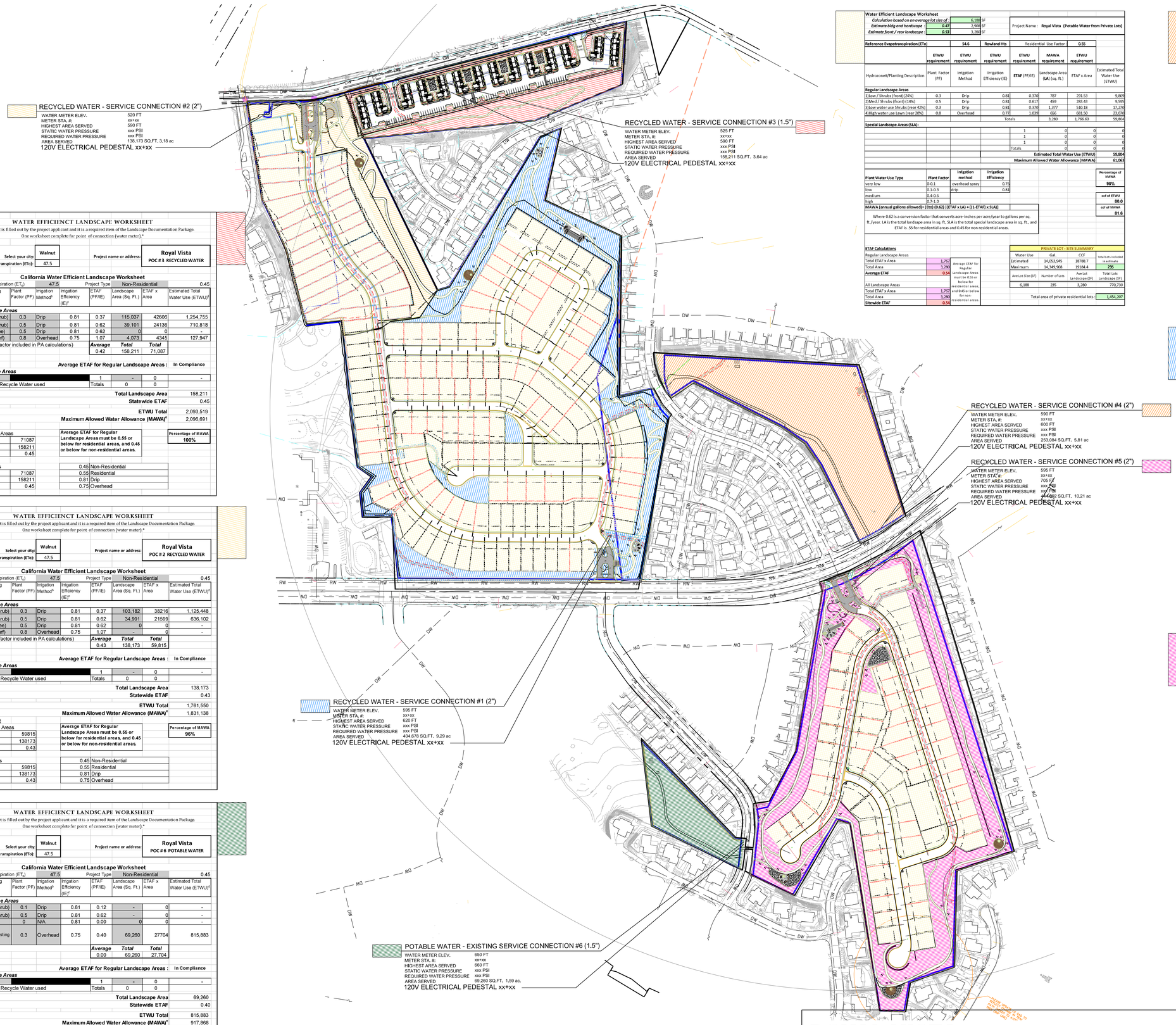
The design and information shown on this drawing is provided as a service to the project owner, engineer and contractor by Contech Engineered Solutions LLC or one of its affiliated companies ("Contech"). Neither this drawing, nor any part thereof, may be used, reproduced or modified in any manner without the prior written consent of Contech. Failure to comply is done at the user's own risk and Contech expressly disclaims any liability or responsibility for such use. If discrepancies between the supplied information upon which the drawing is based and actual field conditions are encountered as site work progresses, these discrepancies must be reported to Contech immediately for re-evaluation of the design. Contech accepts no liability for designs based on missing, incomplete or inaccurate information supplied by others.

CONTECH®
ENGINEERED SOLUTIONS LLC
www.ContechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

FILTERRA TYPICAL SWALE CONFIGURATION

DATE:03/04/15	FILE NAME: FILTERRA TYP SWALE CONFIG DTL	DRAWN: SCK	CHECKED:

\\AD.CONTECH-CPI.COM\ROOT\COMMON\CAD\CAD DEVELOPMENT\FILTERRA\DRAWINGS TO UPDATE STANDARDS\WORK IN PROGRESS\FILTERRA TYP SWALE CONFIG DTL.DWG 3/4/2015 8:36 AM



WATER EFFICIENCT LANDSCAPE WORKSHEET

This worksheet is filled out by the project applicant and it is a required item of the Landscape Documentation Package.
One worksheet complete for point of connection (water meter).*

Select your city: Walnut
Reference Evapotranspiration (ETo): 47.5
Project name or address: **Royal Vista POC # 3 RECYCLED WATER**

California Water Efficient Landscape Worksheet

Reference Evapotranspiration (ET_o) 47.5 Project Type Non-Residential 0.45

Hydrozone # / Planting Description[a]	Plant Factor (PF)	Irrigation Method[b]	Irrigation Efficiency (IE)[c]	ETAF (PF/IE)	Landscape Area (Sq. Ft.)	ETAF x Area	Estimated Total Water Use (ETWU)[d]
Regular Landscape Areas							
Low Water Use (Shrub)	0.3	Drip	0.81	0.37	115,037	42606	1,254,755
Med Water Use (Shrub)	0.5	Drip	0.81	0.62	39,101	24136	710,818
Med Water Use (Tree)	0.5	Drip	0.81	0.62	0	0	-
High Water Use (Turf)	0.8	Overhead	0.75	1.07	4,073	4345	127,947
(1.12 Slope factor included in PA calculations)				*Average* 0.42	*Total* 158,211	*Total* 71,087	

Average ETAF for Regular Landscape Areas : In Compliance

Special Landscape Areas				
SLA-1	1	-	0	-
Recycle Water used	Totals	0	0	

Total Landscape Area 158,211
Statewide ETAF 0.45
ETWU Total 2,093,519
Maximum Allowed Water Allowance (MAWA)[e] 2,096,691

ETAF Calculations

Regular Landscape Areas	
Total ETAF x Area	71087
Total Area	158211
Average ETAF	0.45

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.

Percentage of MAWA **100%**

All Landscape Areas	
Total ETAF x Area	71087
Total Area	158211
Average ETAF	0.45

0.45	Non-Residential
0.55	Residential
0.81	Drip
0.75	Overhead

WATER EFFICIENCT LANDSCAPE WORKSHEET

This worksheet is filled out by the project applicant and it is a required item of the Landscape Documentation Package.
One worksheet complete for point of connection (water meter).*

Select your city: Walnut
Reference Evapotranspiration (ETo): 47.5
Project name or address: **Royal Vista POC # 2 RECYCLED WATER**

California Water Efficient Landscape Worksheet

Reference Evapotranspiration (ET_o) 47.5 Project Type Non-Residential 0.45

Hydrozone # / Planting Description[a]	Plant Factor (PF)	Irrigation Method[b]	Irrigation Efficiency (IE)[c]	ETAF (PF/IE)	Landscape Area (Sq. Ft.)	ETAF x Area	Estimated Total Water Use (ETWU)[d]
Regular Landscape Areas							
Low Water Use (Shrub)	0.3	Drip	0.81	0.37	103,182	38216	1,125,448
Med Water Use (Shrub)	0.5	Drip	0.81	0.62	34,991	21599	636,102
Med Water Use (Tree)	0.5	Drip	0.81	0.62	0	0	-
High Water Use (Turf)	0.8	Overhead	0.75	1.07	-	0	-
(1.12 Slope factor included in PA calculations)				*Average* 0.43	*Total* 138,173	*Total* 59,815	

Average ETAF for Regular Landscape Areas : In Compliance

Special Landscape Areas				
SLA-1	1	-	0	-
Recycle Water used	Totals	0	0	

Total Landscape Area 138,173
Statewide ETAF 0.43
ETWU Total 1,761,550
Maximum Allowed Water Allowance (MAWA)[e] 1,831,138

ETAF Calculations

Regular Landscape Areas	
Total ETAF x Area	59815
Total Area	138173
Average ETAF	0.43

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.

Percentage of MAWA **96%**

All Landscape Areas	
Total ETAF x Area	59815
Total Area	138173
Average ETAF	0.43

0.45	Non-Residential
0.55	Residential
0.81	Drip
0.75	Overhead

WATER EFFICIENCT LANDSCAPE WORKSHEET

This worksheet is filled out by the project applicant and it is a required item of the Landscape Documentation Package.
One worksheet complete for point of connection (water meter).*

Select your city: Walnut
Reference Evapotranspiration (ETo): 47.5
Project name or address: **Royal Vista POC # 6 POTABLE WATER**

California Water Efficient Landscape Worksheet

Reference Evapotranspiration (ET_o) 47.5 Project Type Non-Residential 0.45

Hydrozone # / Planting Description[a]	Plant Factor (PF)	Irrigation Method[b]	Irrigation Efficiency (IE)[c]	ETAF (PF/IE)	Landscape Area (Sq. Ft.)	ETAF x Area	Estimated Total Water Use (ETWU)[d]
Regular Landscape Areas							
Low Water Use (Shrub)	0.1	Drip	0.81	0.12	-	0	-
Med Water Use (Shrub)	0.5	Drip	0.81	0.62	-	0	-
Fallow	0	N/A	0.81	0.00	0	0	-
Low Water Use (Hydrosed grass/existing irrigation)	0.3	Overhead	0.75	0.40	69,260	27704	815,883
				Average 0.00	*Total* 69,260	*Total* 27,704	

Average ETAF for Regular Landscape Areas : In Compliance

Special Landscape Areas				
	1	-	0	-
Recycle Water used	Totals	0	0	

Total Landscape Area 69,260
Statewide ETAF 0.40
ETWU Total 815,883
Maximum Allowed Water Allowance (MAWA)[e] 917,868

ETAF Calculations

Regular Landscape Areas	
Total ETAF x Area	27704
Total Area	69260
Average ETAF	0.40

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.

Percentage of MAWA **89%**

All Landscape Areas	
Total ETAF x Area	27704
Total Area	69260
Average ETAF	0.40

0.45	Non-Residential
0.55	Residential
0.81	Drip
0.75	Overhead

Water Efficient Landscape Worksheet

Calculation based on an overage lot size of 6,188 SF
Estimate bldg and hardscape 0.47 2,909 SF
Estimate front / rear landscape 0.53 3,280 SF

Project Name : **Royal Vista (Potable Water from Private Lots)**

Reference Evapotranspiration (ETo) 54.6 Rowland Hts Residential Use Factor 0.55

Hydrozone#/Planting Description	Plant Factor (PF)	ETWU requirement Irrigation Method	ETWU requirement Irrigation Efficiency (IE)	ETWU requirement ETAF (PF/IE)	MAWA requirement Landscape Area (LA) (sq. ft.)	ETAF x Area	ETWU requirement Estimated Total Water Use (ETWU)
Regular Landscape Areas							
1)Low / Shrubs (front)(24%)	0.3	Drip	0.81	0.370	787	291.53	9,869
2)Med / Shrubs (front) (14%)	0.5	Drip	0.81	0.617	459	283.43	9,595
3)Low water use Shrubs (rear 42%)	0.3	Drip	0.81	0.370	1,377	510.18	17,270
4)High water use lawn (rear 20%)	0.8	Overhead	0.77	1.039	656	681.50	23,070
				Totals	3,280	1,766.63	59,804
Special Landscape Areas (SLA):							
				1	0	0	0
				1	0	0	0
				1	0	0	0
				Totals	0	0	0
					Estimated Total Water Use (ETWU)		59,804
					Maximum Allowed Water Allowance (MAWA)		61,063

Plant Water Use Type	Plant Factor	Irrigation method	Irrigation Efficiency
very low	0-0.1	overhead spray	0.75
low	0.1-0.3	drip	0.81
medium	0.4-0.6		
high	0.7-1.0		

Percentage of MAWA **98%**

MAWA (annual gallons allowed)= (Eto) (0.62) [(ETAF x LA) + ((1-ETAF) x SLA)]

Where 0.62 is a conversion factor that converts acre-inches per acre/year to gallons per sq. ft./year. LA is the total landscape area in sq. ft, SLA is the total special landscape area in sq. ft., and ETAF is .55 for residential areas and 0.45 for non residential areas.

ccf of ETWU **80.6**
ccf of MAWA **81.6**

ETAF Calculations

Regular Landscape Areas	
Total ETAF x Area	1,767
Total Area	3,280
Average ETAF	**0.54**
All Landscape Areas	
Total ETAF x Area	1,767
Total Area	3,280
Sitewide ETAF	**0.54**

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.

PRIVATE LOT - SITE SUMMARY

	Water Use	Gal.	CCF	Total Lots included in estimate
	Estimated	14,053,945	18788.7	
	Maximum	14,349,908	19184.4	235
Ave Lot Size (SF)	Number of Lots	Ave Lot Landscape (SF)		Total Lots Landscape (SF)
6,188	235	3,280		770,730

Total area of private residential lots 1,454,307

WATER EFFICIENT LANDSCAPE WORKSHEET

This worksheet is filled out by the project applicant and it is a required item of the Landscape Documentation Package.
One worksheet complete for point of connection (water meter).*

Select your city: Walnut
Reference Evapotranspiration (ETo): 47.5
Project name or address: **Royal Vista POC #4 RECYCLED WATER (irrigated turf open space)**

California Water Efficient Landscape Worksheet

Reference Evapotranspiration (ET_o) 47.5 Project Type Non-Residential 0.45

Hydrozone # / Planting Description[a]	Plant Factor (PF)	Irrigation Method[b]	Irrigation Efficiency (IE)[c]	ETAF (PF/IE)	Landscape Area (Sq. Ft.)	ETAF x Area	Estimated Total Water Use (ETWU)[d]
Regular Landscape Areas							
Low Water Use (Shrub)	0.1	Drip	0.81	0.12	-	0	-
Med Water Use (Shrub)	0.5	Drip	0.81	0.62	-	0	-
Fallow	0	N/A	0.81	0.00	0	0	-
High Water Use (Existing Open Space Turf)	0.8	Overhead	0.75	1.07	253,084	269956	7,950,212
				Average 0.00	*Total* 253,084	*Total* 269,956	

Average ETAF for Regular Landscape Areas : In Compliance

Special Landscape Areas				
	1	253,084	253084	7,453,324
Recycle Water used	Totals	253084	253084	

Total Landscape Area 253,084
Statewide ETAF 1.03
ETWU Total 7,950,212
Maximum Allowed Water Allowance (MAWA)[e] 10,807,320

ETAF Calculations

Regular Landscape Areas	
Total ETAF x Area	269956
Total Area	253084
Average ETAF	1.07

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.

Percentage of MAWA **74%**

All Landscape Areas	
Total ETAF x Area	523040
Total Area	506168
Average ETAF	1.03

0.45	Non-Residential
0.55	Residential
0.81	Drip
0.75	Overhead

WATER EFFICIENT LANDSCAPE WORKSHEET

This worksheet is filled out by the project applicant and it is a required item of the Landscape Documentation Package.
One worksheet complete for point of connection (water meter).*

Select your city: Walnut
Reference Evapotranspiration (ETo): 47.5
Project name or address: **Royal Vista POC # 1 RECYCED WATER**

California Water Efficient Landscape Worksheet

Reference Evapotranspiration (ET_o) 47.5 Project Type Non-Residential 0.45

Hydrozone # / Planting Description[a]	Plant Factor (PF)	Irrigation Method[b]	Irrigation Efficiency (IE)[c]	ETAF (PF/IE)	Landscape Area (Sq. Ft.)	ETAF x Area	Estimated Total Water Use (ETWU)[d]
Regular Landscape Areas							
Low Water Use (Shrub)	0.3	Drip	0.81	0.37	301,635	111717	3,290,056
Med Water Use (Shrub)	0.5	Drip	0.81	0.62	103,043	63907	1,873,220
Med Water Use (Tree)	0.5	Drip	0.81	0.62	0	0	-
High Water Use (Turf)	0.8	Overhead	0.75	1.07	-	0	-
(1.12 Slope factor included in PA calculations)				*Average* 0.43	*Total* 404,678	*Total* 175,323	

Average ETAF for Regular Landscape Areas : In Compliance

Special Landscape Areas				
SLA-1	1	-	0	-
Recycle Water used	Totals	0	0	

Total Landscape Area 404,678
Statewide ETAF 0.43
ETWU Total 5,163,276
Maximum Allowed Water Allowance (MAWA)[e] 5,362,995

ETAF Calculations

Regular Landscape Areas	
Total ETAF x Area	175323
Total Area	404678
Average ETAF	0.43

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.

Percentage of MAWA **96%**

All Landscape Areas	
Total ETAF x Area	175323
Total Area	404678
Average ETAF	0.43

0.45	Non-Residential
0.55	Residential
0.81	Drip
0.75	Overhead

WATER EFFICIENCT LANDSCAPE WORKSHEET

This worksheet is filled out by the project applicant and it is a required item of the Landscape Documentation Package.
One worksheet complete for point of connection (water meter).*

Select your city: Walnut
Reference Evapotranspiration (ETo): 47.5
Project name or address: **Royal Vista POC # 5 RECYCED WATER**

California Water Efficient Landscape Worksheet

Reference Evapotranspiration (ET_o) 47.5 Project Type Non-Residential 0.45

Hydrozone # / Planting Description[a]	Plant Factor (PF)	Irrigation Method[b]	Irrigation Efficiency (IE)[c]	ETAF (PF/IE)	Landscape Area (Sq. Ft.)	ETAF x Area	Estimated Total Water Use (ETWU)[d]
Regular Landscape Areas							
Low Water Use (Shrub)	0.3	Drip	0.81	0.37	327,084	121142	3,567,638
Med Water Use (Shrub)	0.5	Drip	0.81	0.62	107,485	66349	1,953,971
Med Water Use (Tree)	0.5	Drip	0.81	0.62	0	0	-
High Water Use (Turf)	0.8	Overhead	0.75	1.07	10,123	10798	317,997
(1.12 Slope factor included in PA calculations)				*Average* 0.42	*Total* 444,692	*Total* 198,289	

Average ETAF for Regular Landscape Areas : In Compliance

Special Landscape Areas				
SLA-1 High Water Turf	1	10,123	10123	298,122
Recycle Water used	Totals	10123	10123	

Total Landscape Area 444,692
Statewide ETAF 0.46
ETWU Total 5,839,607
Maximum Allowed Water Allowance (MAWA)[e] 6,191,403

ETAF Calculations

Regular Landscape Areas	
Total ETAF x Area	198289
Total Area	444692
Average ETAF	0.45

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.

Percentage of MAWA **94%**

All Landscape Areas	
Total ETAF x Area	208412
Total Area	454815
Average ETAF	0.46

0.45	Non-Residential
0.55	Residential
0.81	Drip
0.75	Overhead

NORTH

SCALE: 1" =200' - 0"
0 200 400 600 800

SUMMERS/MURPHY & PARTNERS, INC.
34197 COAST HWY SUITE 200
DANA POINT CA 92629
(949) 443-1446

EXHIBIT "A"

MAJOR LAND DIVISION

ROYAL VISTA RESIDENTIAL & PARKS PROJECT

Preliminary Landscape Plan
Irrigation Master Plan

FOR LOT MERGING, SUBDIVIDING, AND CONDOMINIUM PURPOSES
LOCATED IN UNINCORPORATED TERRITORY
OF THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA

NO.	REVISIONS	DATE	BY
	IMP rev, base and calculations	10/18/22	
	IMP rev, base and calculations to poc #4 and poc #6	3/8/23	MRM

FUSCOE ENGINEERING
600 Wilshire, Suite 1470, Los Angeles, California 90017
tel 213.988.8800 fax 213.988.8803 www.fuscoe.com

Name Date

DATE: MARCH 06, 2023
JOB NUMBER: 0662-004
ENVIRONMENTAL DESIGN
SCALE: PER PLAN
DRAFTED BY: EC
CHECKED BY: AW
L.7.0 OF L.7.0

APPENDIX 2

LID/Water Quality Construction Plans



LOCATION MAP
SCALE: N.T.S.
T.G. 557-E5

CIVIL ENGINEER'S NOTE:

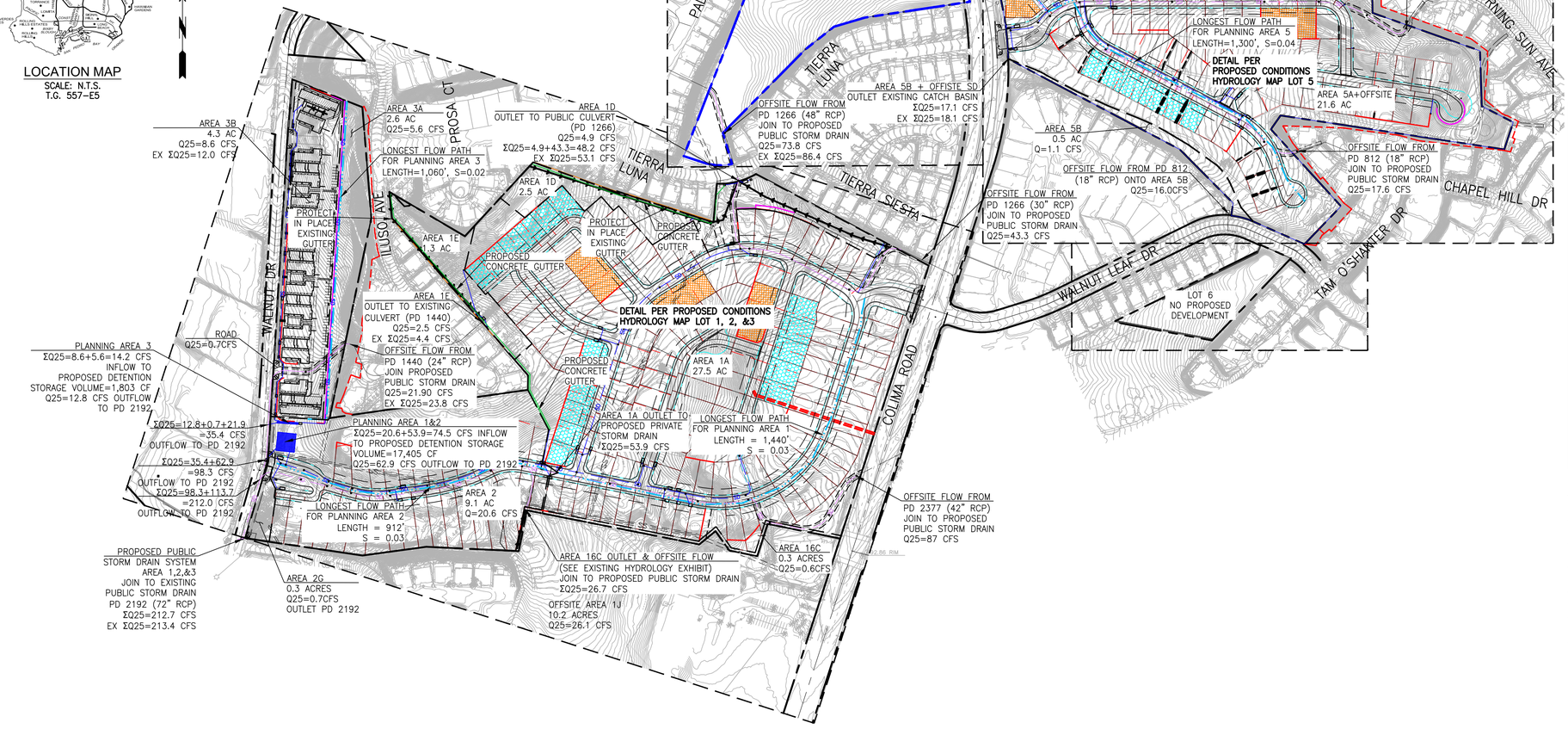
- ONSITE GUTTERS, ROADS, AND PRIVATE STORM DRAINS & DETENTION TANKS WILL BE MAINTAINED BY HOA. PD. STORM DRAIN EXTENSIONS WILL BE PUBLIC, WITHIN AN EASEMENT TO ALLOW FOR ACCESS BY PUBLIC AGENCY.

HATCH LEGEND

	DUPLEX
	TRIPLEX

LEGEND

	PROPERTY LINE / RIGHT-OF-WAY-LINE
	PROPOSED PRIVATE STORM DRAIN
	PROPOSED PUBLIC STORM DRAIN
	DRAINAGE SUBAREAS
	LONGEST FLOW LINE
	OFFSITE SHEET FLOW ONTO PROJECT SITE
	FLOW PATH
	EXISTING CONCRETE GUTTER
	PROPOSED CONCRETE GUTTER
RCP	REINFORCED CONCRETE PIPE
CFS	CUBIC FEET PER SECOND
PD	PUBLIC DRAIN
S	SLOPE
	PREVIOUSLY PROPOSED LOT LINE
	PREVIOUSLY PROPOSED STREET EASEMENT



PLANNING AREA	AREA (ACRES)	PERCENT IMPERVIOUS
1	31.6	35%
2	9.5	33%
3	6.1	35%
5	21.1	27%
OFFSITE 01 (16C)	10.2	0%
OFFSITE 02	0.7	0%
OFFSITE 03	0.2	0%
OFFSITE 04	1.0	0%

NAME	AREA (ACRES)	Q25 (CFS)	DISCHARGE POINT
1A	27.5	53.9	DETENTION 01
2	9.1	20.6	DETENTION 01
1D	2.5	4.9	PD 1266
1E	1.3	2.5	PD 1440
2G	0.3	0.7	PD 2192
1J	10.2	20.6	PD 2192
16C	0.3	0.6	PD 2192
3A	2.6	5.6	DETENTION 02
3B	4.3	8.6	DETENTION 02
5A	21.6	46.2	DETENTION 05
5B	0.5	1.1	CATCH BASIN
OFFSITE 02	0.7	1.6	AREA 3A
OFFSITE 03	0.2	0.4	AREA 3A
OFFSITE 04	1.0	1.9	AREA 5A

50-YEAR RAINFALL	6.5"
SOIL TYPE	002
DPA ZONE	7
BURN FACTOR	N/A
BULKING FACTOR	N/A
PROJECT DESIGN STORM	25-YEAR

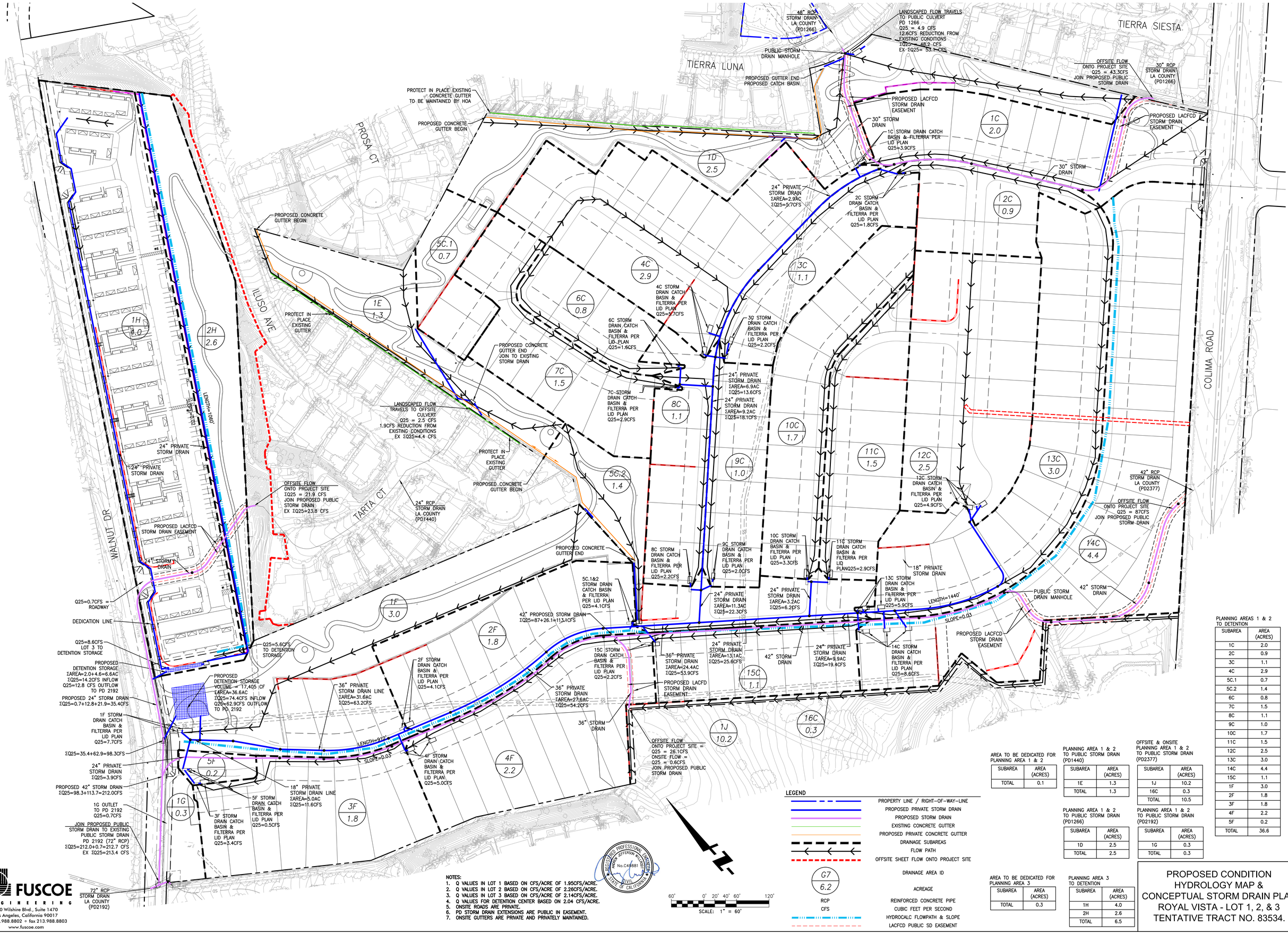
NOTES:
1. NOT WITHIN COUNTY ADOPTED FLOODWAY.
2. NOT WITHIN FEMA FLOODZONE "A".

FUSCOE ENGINEERING
600 Wilshire Blvd., Suite 1470
Los Angeles, California 90017
tel 213.988.8802 ◦ fax 213.988.8803
www.fuscoe.com

REGISTERED PROFESSIONAL ENGINEER
ANDREW JEFFERSON WILLARD
No.C49881
CIVIL
STATE OF CALIFORNIA

PROPOSED CONDITION
HYDROLOGY MAP &
CONCEPTUAL STORM DRAIN PLAN
ROYAL VISTA - OVERALL
TENTATIVE TRACT NO. 83534.

P:\PROJECTS\4010\04\CAD\RTS\4010-04HYA - OVERALL PROPOSED CONDITION HYDROLOGY MAP.DWG (03-30-2020 9:13:19AM) Plotted by: epalan



NOTES:
1. Q VALUES IN LOT 1 BASED ON CFS/ACRE OF 1.95CFS/ACRE.
2. Q VALUES IN LOT 2 BASED ON CFS/ACRE OF 2.26CFS/ACRE.
3. Q VALUES IN LOT 3 BASED ON CFS/ACRE OF 2.14CFS/ACRE.
4. Q VALUES FOR DETENTION CENTER BASED ON 2.04 CFS/ACRE.
5. ONSITE ROADS ARE PRIVATE.
6. PD STORM DRAIN EXTENSIONS ARE PUBLIC IN EASEMENT.
7. ONSITE GUTTERS ARE PRIVATE AND PRIVATELY MAINTAINED.

REGISTERED PROFESSIONAL ENGINEER ANDREW PETERSON WITTORP No.C49881 CIVIL STATE OF CALIFORNIA

FUSCOE ENGINEERING
600 Wilshire Blvd., Suite 1470
Los Angeles, California 90017
tel 213.988.8802 • fax 213.988.8803
www.fuscoe.com

AREA TO BE DEDICATED FOR PLANNING AREA 1 & 2

SUBAREA	AREA (ACRES)
TOTAL	0.1

AREA TO BE DEDICATED FOR PLANNING AREA 3

SUBAREA	AREA (ACRES)
TOTAL	0.3

PLANNING AREA 1 & 2 TO PUBLIC STORM DRAIN (PD1440)

SUBAREA	AREA (ACRES)
1E	1.3
TOTAL	1.3

PLANNING AREA 1 & 2 TO PUBLIC STORM DRAIN (PD1266)

SUBAREA	AREA (ACRES)
1D	2.5
TOTAL	2.5

OFFSITE & ONSITE PLANNING AREA 1 & 2 TO PUBLIC STORM DRAIN (PD2377)

SUBAREA	AREA (ACRES)
1J	10.2
16C	0.3
TOTAL	10.5

PLANNING AREA 1 & 2 TO PUBLIC STORM DRAIN (PD2192)

SUBAREA	AREA (ACRES)
1G	0.3
TOTAL	0.3

PLANNING AREA 3 TO DETENTION

SUBAREA	AREA (ACRES)
1H	4.0
2H	2.6
TOTAL	6.5

PLANNING AREAS 1 & 2 TO DETENTION

SUBAREA	AREA (ACRES)
1C	2.0
2C	0.9
3C	1.1
4C	2.9
5C.1	0.7
5C.2	1.4
6C	0.8
7C	1.5
8C	1.1
9C	1.0
10C	1.7
11C	1.5
12C	2.5
13C	3.0
14C	4.4
15C	1.1
1F	3.0
2F	1.8
3F	1.8
4F	2.2
5F	0.2
TOTAL	36.6

PROPOSED CONDITION HYDROLOGY MAP & CONCEPTUAL STORM DRAIN PLAN ROYAL VISTA - LOT 1, 2, & 3 TENTATIVE TRACT NO. 83534.

F:\PROJECTS\456\DWG\EXHIBITS\456-DRAIN - LOT 1-3 PROPOSED CONDITION HYDROLOGY MAP.DWG [01-30-2023 11:15AM] Plotted by: kjordan

LEGEND

- PROPERTY LINE / RIGHT-OF-WAY-LINE
- PROPOSED PRIVATE STORM DRAIN
- PROPOSED STORM DRAIN
- DRAINAGE SUBAREAS
- DIRECTION OF FLOW
- OFFSITE SHEET FLOW ONTO PROJECT SITE
- G7 / 6.2 — DRAINAGE AREA ID / ACREAGE
- RCP — REINFORCED CONCRETE PIPE
- CFS — CUBIC FEET PER SECOND
- HYDROCALC FLOWPATH & SLOPE
- LACFCD PUBLIC SD EASEMENT

AREA TO OFFSITE CATCH BASIN

SUBAREA	AREA (ACRES)
1B	0.5
TOTAL	0.5

AREA TO DETENTION

SUBAREA	AREA (ACRES)
1A	4.1
2A	2.7
3A	1.6
4A	1.1
5A	1.8
6A	2.1
7A	1.1
8A	1.5
9A	3.7
10A	1.9
TOTAL	21.6

ΣQ25=125.9+17.1=143.0 CFS
EX ΣQ25=146.6 CFS

PROPOSED DETENTION STORAGE VOLUME = 10,350 CF
Q25=46.2 CFS INFLOW
Q25=37.8 CFS OUTFLOW

EXISTING 36" CONCRETE CULVERT

PROPOSED LACFCD STORM DRAIN EASEMENT

OUTFLOW TO EXISTING 36" CULVERT
ΣQ25=88.1+37.8 =125.9 CFS
EX ΣQ25=128.5 CFS

24" STORM DRAIN
ΣAREA=21.6AC
ΣQ25=46.2CFS

PROPOSED 36" STORM DRAIN

24" STORM DRAIN
ΣAREA=16.0AC
ΣQ25=34.4CFS

PROPOSED 36" STORM DRAIN
ΣQ25=88.1CFS

24" PRIVATE STORM DRAIN
ΣAREA=3.9AC
ΣQ25=8.4CFS

5A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=3.9CFS

9A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=7.8CFS

APPROXIMATE ALIGNMENT OF EXISTING 24" STORM DRAIN FROM EXISTING CATCH BASIN TO EXISTING 36" CULVERT

ΣQ25=22.8CFS
7A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=2.4CFS

6A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=4.5CFS

PROPOSED LACFCD STORM DRAIN EASEMENT

33" STORM DRAIN

24" STORM DRAIN
ΣAREA=12.1AC
ΣQ25=26.0CFS

24" STORM DRAIN
ΣAREA=5.6AC
ΣQ25=11.8CFS

8A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=3.2CFS

10A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=4.0CFS

LANDSCAPED FLOW TRAVELS TO OFFSITE CATCH BASIN
Q25=1.1CFS
ΣQ25=1.1+16.0=17.1CFS
EX Q25=18.1 CFS

PROPOSED LACFCD STORM DRAIN EASEMENT

LENGTH=1300'
SLOPE=0.04

24" STORM DRAIN
ΣAREA=6.8AC
ΣQ25=14.6CFS

1A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=8.8CFS

2A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=5.8CFS

3A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=3.4CFS

PROPOSED 24" STORM DRAIN

24" STORM DRAIN
ΣAREA=9.5AC
ΣQ25=20.4CFS

24" STORM DRAIN
ΣAREA=2.7AC
ΣQ25=5.8CFS

4A STORM DRAIN CATCH BASIN & FILTERRA PER LID PLAN
Q25=2.4CFS

PROOSED 24" STORM DRAIN

33" RCP STORM DRAIN LA COUNTY (PD0812)

PROPOSED 33" STORM DRAIN

PROPOSED LACFCD STORM DRAIN EASEMENT

OFFSITE FLOW ONTO PROJECT SITE PD 0812 (33" RCP)
Q25 = 70.5CFS
JOIN PROPOSED PUBLIC STORM DRAIN

OFFSITE FLOW ONTO PROJECT SITE
Q25 = 17.6CFS
JOIN PROPOSED STORM DRAIN

18" RCP STORM DRAIN LA COUNTY (PD0812)

OFFSITE FLOW ONTO PROJECT SITE
Q25 = 16.0CFS

18" RCP STORM DRAIN LA COUNTY (PD0812)

9A 3.7 · 5A 1.8 · 6A 2.1 · 7A 1.1 · 8A 1.5 · 10A 1.9 · 1A 4.1 · 2A 2.7 · 3A 1.6 · 4A 1.1 · 1B 0.5

COLIMA ROAD · MORNING SUN AVE · CHAPEL HILL DR · WALNUT LEAF DR

NOTES:
1. Q VALUES IN LOT 5 BASED ON CFS/ACRE OF 2.14CFS/ACRE.

REGISTERED PROFESSIONAL ENGINEER · ANDREW JEFFERSON WILLARD · No.C49881 · CIVIL · STATE OF CALIFORNIA

60' 0' 20' 40' 60' 120'
SCALE: 1" = 60'

PROPOSED CONDITION HYDROLOGY MAP & CONCEPTUAL STORM DRAIN PLAN ROYAL VISTA - LOT 5 TENTATIVE TRACT NO. 83534.

FUSCOE ENGINEERING
600 Wilshire Blvd., Suite 1470
Los Angeles, California 90017
tel 213.988.8802 ◦ fax 213.988.8803
www.fuscoe.com

C:\PROJECTS\MDD\LOA\EXHIBITS\MDD-LOA04 - EXH 5 PROPOSED CONDITION HYDROLOGY MAP.DWG (03-30-2023 8:14:07AM) Plotted by: ajensen

APPENDIX 3

Master Covenant and Agreement

****TO BE INCLUDED AT FINAL MAP RECORDATION****

APPENDIX 4

BMP Operations & Maintenance Plan Supplement

Operations and Maintenance (O&M) Plan

for

ROYAL VISTA RESIDENTIAL PROJECT

Unincorporated Los Angeles County, Rowland Heights, CA

Operations and Maintenance Plan

BMP Applicable? Yes/No	BMP Name and BMP Implementation, Maintenance, and Inspection Procedures	Implementation, Maintenance, and Inspection Frequency and Schedule	Person or Entity with Operation & Maintenance Responsibility
Non-Structural Source Control BMPs			
Yes	**Education for Property Owners, Tenants and Occupants**	Educational materials will be provided to tenants annually. Materials to be distributed are found in Appendix B. Tenants will be provided these materials by the Owner prior to occupancy and periodically thereafter. Minimum Frequency: Annually	Owner/HOA
Yes	**Activity Restriction**	The Owner will prescribe activity restrictions to protect surface water quality, through lease terms or other equally effective measure, for the property. Restrictions include, but are not limited to, prohibiting vehicle maintenance or vehicle washing. Minimum Frequency: Ongoing	Owner/HOA
Yes	**Common Area Landscape Management**	Maintenance includes mowing, weeding, and debris removal on a weekly basis. Trimming, replanting, and replacement of mulch shall be performed on an as-needed basis to prevent exposure of erodible surfaces. Trimmings, clippings, and other landscape wastes shall be properly disposed of in accordance with local regulations. Materials temporarily stockpiled during maintenance activities shall be placed away from water courses and storm drain inlets. Minimum Frequency: Monthly	Owner/HOA
Yes	**BMP Maintenance**	Maintenance of structural BMPs implemented at the project site shall be performed at the frequency prescribed in this LID Plan and O&M Plan. Records of inspections and BMP maintenance shall be kept by the Owner and shall be available for review upon request. Minimum Frequency: Ongoing	Owner/HOA
Yes	**Common Area Litter Control**	Litter patrol, violations investigations, reporting and other litter control activities shall be performed on a weekly basis and in conjunction with routine maintenance activities. Minimum Frequency: Weekly	Owner/HOA

BMP Applicable? Yes/No	BMP Name and BMP Implementation, Maintenance, and Inspection Procedures	Implementation, Maintenance, and Inspection Frequency and Schedule	Person or Entity with Operation & Maintenance Responsibility
Yes	**Employee Training**	Educate all new employees/ managers on storm water pollution prevention, particularly good housekeeping practices, prior to the start of the rainy season (October 1). Refresher courses shall be conducted on an as needed basis. Minimum Frequency: Annually	Owner/HOA
Yes	**Common Area Catch Basin Inspection**	On-site catch basin inlets, area drains, curb-and-gutter systems and other drainage systems shall be inspected after each storm event and, if necessary, cleaned prior to the storm season by October 1st each year. Minimum Frequency: Annually	Private: Owner/HOA Public: County of Los Angeles
Yes	**Street Sweeping Private Streets and Parking Lots**	Streets and parking areas within the project shall be swept at a minimum frequency quarterly as well as once per year prior to the storm season, no later than October 1st each year. Onsite and offsite public streets shall be maintained by the City of Whittier and Los Angeles County (within their jurisdiction). Minimum Frequency: Quarterly	Private: Owner/HOA Public: County of Los Angeles
Structural Source Control BMPs			
Yes	**Provide Storm Drain System Stenciling and Signage**	Storm drain stencils shall be inspected for legibility, at minimum, once prior to the storm season, no later than October 1st each year. Those determined to be illegible will be re-stenciled as soon as possible. Minimum Frequency: Annually	Owner/HOA
Yes	**Design and Construct Trash and Waste Storage Areas to Reduce Pollutant Introduction**	Sweep trash area at least once per week and before October 1st each year. Maintain area clean of trash and debris at all times. Minimum Frequency: Weekly	Owner/HOA

BMP Applicable? Yes/No	BMP Name and BMP Implementation, Maintenance, and Inspection Procedures	Implementation, Maintenance, and Inspection Frequency and Schedule	Person or Entity with Operation & Maintenance Responsibility
Yes	**Use Efficient Irrigation Systems & Landscape Design**	In conjunction with routine maintenance activities, verify that landscape design continues to function properly by adjusting properly to eliminate overspray to hardscape areas, and to verify that irrigation timing and cycle lengths are adjusted in accordance with water demands, given time of year, weather, day or nighttime temperatures based on system specifications and local climate patterns. Minimum Frequency: 2x per year	Owner/HOA
	LID BMPs		
Yes	**Proprietary Biotreatment: Filterra**	The Filterra units shall be maintained in accordance with manufacturer's specification. The annual maintenance consists of a minimum of two scheduled visits, one after the rainy season to clean up after the wet season, and one before the wet season to inspect and clean the unit. Each maintenance visit consists of the following: • Inspection; • Removal of trash, debris, sediment; • Filter media and plant health evaluation and replacement if necessary; • Replacement of mulch. Minimum Frequency: 2X PER YEAR, Manufacturer's Specifications	Owner/HOA

Required Permits

This section must list any permits required for the implementation, operation, and maintenance of the BMPs. Possible examples are:

- Permits for connection to sanitary sewer
- Permits from California Department of Fish and Game
- Encroachment permits

If no permits are required, a statement to that effect should be made.

Responsible Party

The owner is aware of the maintenance responsibilities of the proposed BMPs until an HOA is formed, after which, the HOA will assume maintenance responsibility for BMPs. The contact information for the entity responsible is below:

Name:	Jon Conk
Company:	Project Dimensions, Inc.
Title:	---
Address 1:	4 Park Plaza, Suite 700
Address 2:	Irvine, CA 92614
Phone Number:	949-476-2246
Email:	---

Forms to Record BMP Implementation, Maintenance, and Inspection

The form that will be used to record implementation, maintenance, and inspection of BMPs is attached. All records must be made available for review upon request.

RECORD OF BMP IMPLEMENTATION, MAINTENANCE, AND INSPECTION

Today's Date: _____

Name of Person Performing Activity (Printed): _____

Signature: _____

BMP Name (As Shown in O&M Plan)	Brief Description of Implementation, Maintenance, and Inspection Activity Performed

Filterra® Maintenance Steps



1. Inspection of Filterra and surrounding area



2. Removal of tree grate and erosion control stones



3. Removal of debris, trash and mulch



4. Mulch replacement



5. Clean area around Filterra



6. Complete paperwork and record plant height and width

Contech has created a network of Certified Maintenance Providers (CCMP's) to provide maintenance on Filterra systems. To find a CCMP in your area please visit www.conteches.com/maintenance

© 2015 Contech Engineered Solutions LLC

Filterra Owner's Manual



filterra®

Bioretention Systems

CONTECH®
ENGINEERED SOLUTIONS

This Owner's Manual applies to all precast Filterra Configurations, including Filterra Bioscape Vault.







filterra®
Bioretention Systems

Table of Contents

Introduction 4

Activation Overview 4

Filterra Plant Selection Overview 6

Warranty Overview 6

Routine Maintenance Guidelines 6

Maintenance Visit Procedure 9

Appendix 1 – Activation Checklist 12

Appendix 2 – Planting Requirements for Filterra Systems 13

Appendix 3 – Filterra Tree Grate Opening Expansion Procedure 15

CONTECH®
ENGINEERED SOLUTIONS

Introduction

Thank you for your purchase of the Filterra® Bioretention System. Filterra is a specially engineered stormwater treatment system incorporating high performance biofiltration media to remove pollutants from stormwater runoff. The system's biota (vegetation and soil microorganisms) then further breakdown and absorb captured pollutants. All components of the system work together to provide a sustainable long-term solution for treating stormwater runoff.

The Filterra system has been delivered to you with protection in place to resist intrusion of construction related sediment which can contaminate the biofiltration media and result in inadequate system performance. These protection devices are intended as a best practice and cannot fully prevent contamination. It is the purchaser's responsibility to provide adequate measures to prevent construction related runoff from entering the Filterra system.

Included with your purchase is Activation of the Filterra system by the manufacturer as well as a 1-year warranty from delivery of the system and 1-year of routine maintenance (mulch replacement, debris removal, and pruning of vegetation) up to twice during the first year after activation.

Design and Installation

Each project presents different scopes for the use of Filterra systems. Information and help may be provided to the design engineer during the planning process. Correct Filterra box sizing (by rainfall region) is essential to predict pollutant removal rates for a given area. The engineer shall submit calculations for approval by the local jurisdiction. The contractor is responsible for the correct installation of Filterra units as shown in approved plans. A comprehensive installation manual is available at www.ContechES.com.

Activation Overview

Activation of the Filterra system is a procedure completed by the manufacturer to place the system into working condition. This involves the following items:

- Removal of construction runoff protection devices
- Planting of the system's vegetation
- Placement of pretreatment mulch layer using mulch certified for use in Filterra systems.

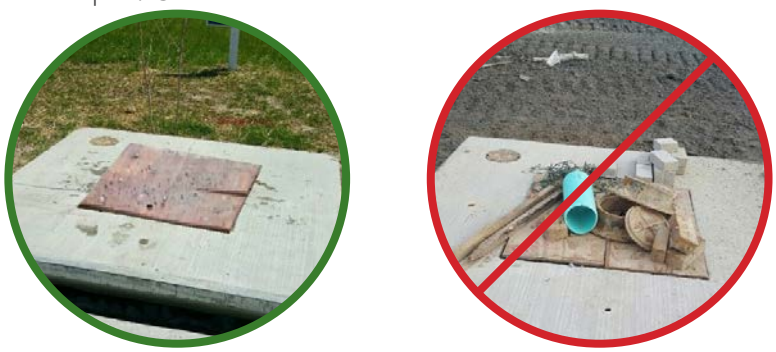
Activation MUST be provided by the manufacturer to ensure proper site conditions are met for Activation, proper installation of the vegetation, and use of pretreatment mulch certified for use in Filterra systems.



Minimum Requirements

The minimum requirements for Filterra Activation are as follows:

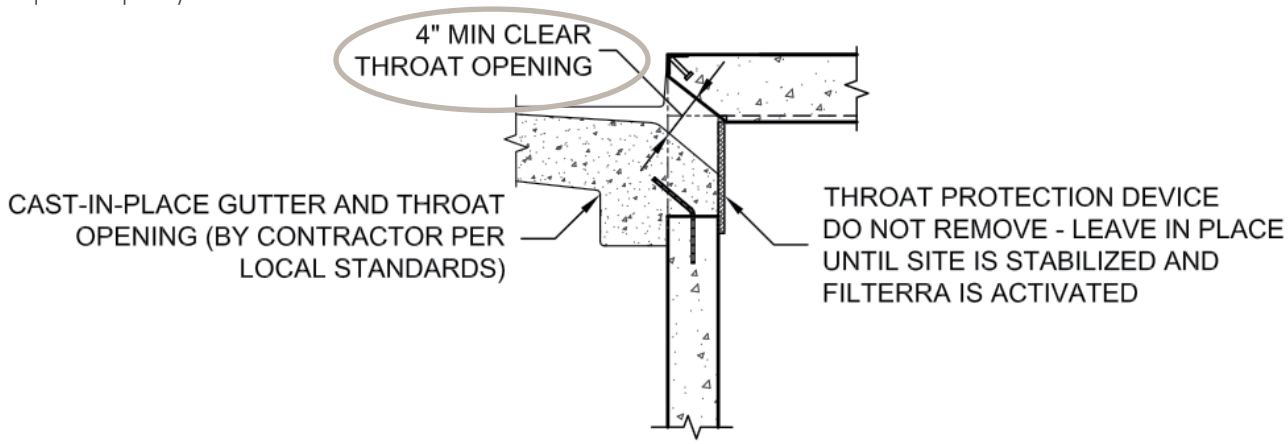
1. The site landscaping must be fully stabilized, i.e. full landscaping installed and some grass cover (not just straw and seed) is required to reduce sediment transport. Construction debris and materials should be removed from surrounding area.



2. Final paving must be completed. Final paving ensures that paving materials will not enter and contaminate the Filterra system during the paving process, and that the plant will receive runoff from the drainage area, assisting with plant survival for the Filterra system.



3. Where curb inlets are included as part of the Filterra system, Filterra throat opening should be at least 4" in order to ensure adequate capacity for inflow and debris.



An Activation Checklist is included on page 12 to ensure proper conditions are met for Contech to perform the Activation services. A charge of $500.00 will be invoiced for each Activation visit requested by Customer where Contech determines that the site does not meet the conditions required for Activation.

Filterra Plant Selection Overview

A Plant List is available on the Contech website highlighting recommended plants for Filterra systems in your area. Keep in mind that plants are subject to availability due to seasonality and required minimum size for the Filterra system. Plants installed in the Filterra system are container plants (max 15 gallon) from nursery stock and will be immature in height and spread at Activation.

It is the responsibility of the owner to provide adequate irrigation when necessary to the plant of the Filterra system.

The "Planting Requirements for Filterra Systems" document is included as an appendix and discusses proper selection and care of the plants within Filterra systems.

Warranty Overview

Refer to the Contech Engineered Solutions LLC Stormwater Treatment System LIMITED WARRANTY for further information. The following conditions may void the Filterra system's warranty and waive the manufacturer provided Activation and Maintenance services:

- Unauthorized activation or performance of any of the items listed in the activation overview
- Any tampering, modifications or damage to the Filterra system or runoff protection devices
- Removal of any Filterra system components
- Failure to prevent construction related runoff from entering the Filterra system
- Failure to properly store and protect any Filterra components (including media and underdrain stone) that may be shipped separately from the vault

Routine Maintenance Guidelines

With proper routine maintenance, the biofiltration media within the Filterra system should last as long as traditional bioretention media. Routine maintenance is included by the manufacturer on all Filterra systems for the first year after activation. This includes a maximum of 2 visits to remove debris, replace pretreatment mulch, and prune the vegetation. More information is provided in the Operations and Maintenance Guidelines. Some Filterra systems also contain pretreatment or outlet bays. Depending on site pollutant loading, these bays may require periodic removal of debris, however this is not included in the first year of maintenance, and would likely not be required within the first year of operation.

These services, as well as routine maintenance outside of the included first year, can be provided by certified maintenance providers listed on the Contech website. Training can also be provided to other stormwater maintenance or landscape providers.



Why Maintain?

All stormwater treatment systems require maintenance for effective operation. This necessity is often incorporated in your property's permitting process as a legally binding BMP maintenance agreement. Other reasons to maintain are:

- Avoiding legal challenges from your jurisdiction's maintenance enforcement program.
- Prolonging the expected lifespan of your Filterra media.
- Avoiding more costly media replacement.
- Helping reduce pollutant loads leaving your property.

Simple maintenance of the Filterra is required to continue effective pollutant removal from stormwater runoff before discharge into downstream waters. This procedure will also extend the longevity of the living biofilter system. The unit will recycle and accumulate pollutants within the biomass, but is also subjected to other materials entering the inlet. This may include trash, silt and leaves etc. which will be contained above the mulch layer. Too much silt may inhibit the Filterra's flow rate, which is the reason for site stabilization before activation. Regular replacement of the mulch stops accumulation of such sediment.

When to Maintain?

Contech includes a 1-year maintenance plan with each system purchase. Annual included maintenance consists of a maximum of two (2) scheduled visits. Additional maintenance may be necessary depending on sediment and trash loading (by Owner or at additional cost). The start of the maintenance plan begins when the system is activated.

Maintenance visits are typically scheduled seasonally; the spring visit aims to clean up after winter loads including salts and sands while the fall visit helps the system by removing excessive leaf litter.

It has been found that in regions which receive between 30-50 inches of annual rainfall, (2) two visits are generally required; regions with less rainfall often only require (1) one visit per annum. Varying land uses can affect maintenance frequency; e.g. some fast food restaurants require more frequent trash removal. Contributing drainage areas which are subject to new development wherein the recommended erosion and sediment control measures have not been implemented may require additional maintenance visits.

Some sites may be subjected to extreme sediment or trash loads, requiring more frequent maintenance visits. This is the reason for detailed notes of maintenance actions per unit, helping the Supplier and Owner predict future maintenance frequencies, reflecting individual site conditions.

Owners must promptly notify the maintenance provider of any damage to the plant(s), which constitute(s) an integral part of the bioretention technology. Owners should also advise other landscape or maintenance contractors to leave all maintenance to the Supplier (i.e. no pruning or fertilizing) during the first year.



Exclusion of Services

Clean up due to major contamination such as oils, chemicals, toxic spills, etc. will result in additional costs and are not covered under the Supplier maintenance contract. Should a major contamination event occur the Owner must block off the outlet pipe of the Filterra (where the cleaned runoff drains to, such as drop inlet) and block off the throat of the Filterra. The Supplier should be informed immediately.

Maintenance Visit Summary

Each maintenance visit consists of the following simple tasks (detailed instructions below).

1. Inspection of Filterra and surrounding area
2. Removal of tree grate (where applicable) and erosion control stones
3. Removal of debris, trash and mulch
4. Mulch replacement
5. Plant health evaluation and pruning or replacement as necessary
6. Clean area around Filterra
7. Complete paperwork

Maintenance Tools, Safety Equipment and Supplies

Ideal tools include: camera, bucket, shovel, broom, pruners, hoe/rake, and tape measure. Appropriate Personal Protective Equipment (PPE) should be used in accordance with local or company procedures. This may include impervious gloves where the type of trash is unknown, high visibility clothing and barricades when working in close proximity to traffic and also safety hats and shoes. A T-Bar or crowbar should be used for moving the tree grates, where applicable (up to 170 lbs each). If tree grate opening expansion is necessary, safety glasses/goggles and a 3lb or greater mini sledgehammer are required. Most visits require minor trash removal and a full replacement of mulch. See below for actual number of bagged mulch that is required in each media bay size. Mulch should be a double shredded, hardwood variety. Some visits may require additional Filterra engineered soil media available from the Supplier.

Media Bay Length	Media Bay Width	Filter Surface Area (ft^2)	Volume at 3" (ft^3)	# of 2 ft^3 Mulch Bags
4	4	16	4	2
6	4	24	6	3
8	4	32	8	4
6	6	36	9	5
8	6	48	12	6
10	6	60	15	8
12	6	72	18	9
13	7	91	23	12

Other sizes not listed - 1 bag per 8 ft^2 of media.

Maintenance Visit Procedure

Keep sufficient documentation of maintenance actions to predict location specific maintenance frequencies and needs. An example Maintenance Report is included in this manual.



1. Inspection of Filterra and surrounding area

- Record individual unit before maintenance with photograph (numbered). Record on Maintenance Report (see example in this document) the following:

Record on Maintenance Report the following:

Standing Water	yes | no
Damage to Box Structure	yes | no
Damage to Grate (if applicable)	yes | no
Is Bypass Clear	yes | no

If yes answered to any of these observations, record with close-up photograph (numbered).



2. Removal of tree grate (if applicable) and erosion control stones

- Remove cast iron grates for access into Filterra box (if applicable).
- Dig out silt (if any) and mulch and remove trash & foreign items.

3. Removal of debris, trash and mulch

Record on Maintenance Report the following:

Silt/Clay	yes | no
Cups/ Bags	yes | no
Leaves	yes | no
Buckets Removed	_____



- After removal of mulch and debris, measure distance from the top of the Filterra engineered media soil to the top of the top slab. Compare the measured distance to the distance shown on the approved Contract Drawings for the system. Add Filterra media (not top soil or other) to bring media up as needed to distance indicated on drawings.

Record on Maintenance Report the following:

Distance to Top of Top Slab (inches)	_____
Inches of Media Added	_____



4. Mulch replacement

- Add double shredded mulch evenly across the entire unit to a depth of 3".
- Refer to Filterra Mulch Specifications for information on acceptable sources.
- Ensure correct repositioning of erosion control stones by the Filterra inlet to allow for entry of trash during a storm event.
- Replace Filterra grates (if applicable) correctly using appropriate lifting or moving tools, taking care not to damage the plant.
- Where applicable, if 6" tree grate opening is too close to plant trunk, the grate opening may be expanded to 12" using a mini sledgehammer. Refer to instructions in Appendix 3.



5. Plant health evaluation and pruning or replacement as necessary

- Examine the plant's health and replace if necessary.
- Prune as necessary to encourage growth in the correct directions

Record on Maintenance Report the following:

Height above top of Filterra Unit	_____ (ft)
Width at Widest Point	_____ (ft)
Health	healthy | unhealthy
Damage to Plant	yes | no
Plant Replaced	yes | no



6. Clean area around Filterra

- Clean area around unit and remove all refuse to be disposed of appropriately.



7. Complete paperwork

- Deliver Maintenance Report and photographs to appropriate location (normally Contech during maintenance contract period).
- Some jurisdictions may require submission of maintenance reports in accordance with approvals. It is the responsibility of the Owner to comply with local regulations.

Maintenance Checklist

Drainage System Failure	Problem	Conditions to Check	Condition that Should Exist	Actions
Inlet	Excessive sediment or trash accumulation.	Accumulated sediments or trash impair free flow of water into Filterra.	Inlet should be free of obstructions allowing free distributed flow of water into Filterra.	Sediments and/or trash should be removed.
Mulch Cover	Trash and floatable debris accumulation.	Excessive trash and/or debris accumulation.	Minimal trash or other debris on mulch cover.	Trash and debris should be removed and mulch cover raked level. Ensure bark nugget mulch is not used.
Mulch Cover	"Ponding" of water on mulch cover.	"Ponding" in unit could be indicative of clogging due to excessive fine sediment accumulation or spill of petroleum oils.	Stormwater should drain freely and evenly through mulch cover.	Recommend contact manufacturer and replace mulch as a minimum.
Vegetation	Plants not growing or in poor condition.	Soil/mulch too wet, evidence of spill. Incorrect plant selection. Pest infestation. Vandalism to plants.	Plants should be healthy and pest free.	Contact manufacturer for advice.
Vegetation	Plant growth excessive.	Plants should be appropriate to the species and location of Filterra.		Trim/prune plants in accordance with typical landscaping and safety needs.
Structure	Structure has visible cracks.	Cracks wider than 1/2 inch or evidence of soil particles entering the structure through the cracks.		Vault should be repaired.
Maintenance is ideally to be performed twice annually.				

Filterra Inspection & Maintenance Log

Filterra System Size/Model:_____**Location:** _____

Date	Mulch & Debris Removed	Depth of Mulch Added	Mulch Brand	Height of Vegetation Above Top of Vault	Vegetation Species	Issues with System	Comments
1/1/17	*5 – 5 gal Buckets*	*3"*	*Lowe's Premium Brown Mulch*	*4'*	*Galaxy Magnolia*	*- Standing water in downstream structure*	*- Removed blockage in downstream structure*

Appendix 1 – Filterra® Activation Checklist

Project Name: _____ Company: _____

Site Contact Name: _____ Site Contact Phone/Email: _____

Site Owner/End User Name: _____ Site Owner/End User Phone/Email: _____

Preferred Activation Date: _____ (provide 2 weeks minimum from date this form is submitted)

Site Designation	System Size	Final Pavement / Top Coat Complete	Landscaping Complete / Grass Emerging	Construction materials / Piles / Debris Removed	Throat Opening Measures 4" Min. Height	Plant Species Requested
		☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No ☐ N/A	
		☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No ☐ N/A	
		☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No ☐ N/A	
		☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No ☐ N/A	
		☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No ☐ N/A	
		☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No ☐ N/A	
		☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No ☐ N/A	
		☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No ☐ N/A	
		☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No ☐ N/A	

Attach additional sheets as necessary.

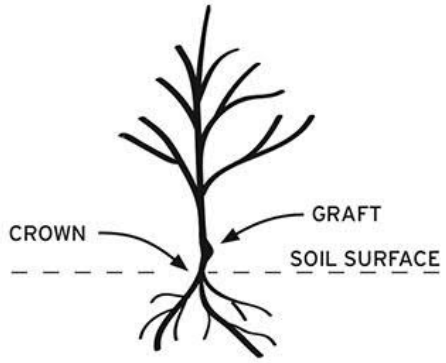
NOTE: A charge of $500.00 will be invoiced for each Activation visit requested by Customer where Contech determines that the site does not meet the conditions required for Activation. ONLY Contech authorized representatives can perform Activation of Filterra systems; unauthorized Activations will void the system warranty and waive manufacturer supplied Activation and 1st Year Maintenance.

_____ _____

Signature Date

Appendix 2 – Planting Requirements for Filterra® Systems

Plant Material Selection



- Select plant(s) as specified in the engineering plans and specifications.
- Select plant(s) with full root development but not to the point where root bound.
- Use local nursery container plants only. Ball and burlapped plants are not permitted.
- For precast Filterra systems with a tree grate, plant(s) must not have scaffold limbs at least 14 inches from the crown due to spacing between the top of the mulch and the tree grate. Lower branches can be pruned away provided there are sufficient scaffold branches for tree or shrub development.
- For precast Filterra systems with a tree grate, at the time of installation, it is required that plant(s) must be at least 6" above the tree grate opening at installation for all Filterra configurations. This DOES NOT apply to Full Grate Cover designs.
- Plant(s) shall not have a mature height greater than 25 feet.
- For standard 21" media depth, a 7 – 15 gallon container size shall be used. Media less than 21" (Filterra boxes only) may require smaller container plants.
- For precast Filterra systems, plant(s) should have a single trunk at installation, and pruning may be necessary at activation and maintenance for some with a tree grate of the faster growing species, or species known to produce basal sprouts.

Plant Installation

- During transport protect the plant foliage from wind and excessive jostling.
- Prior to removing the plant(s) from the container, ensure the soil moisture is sufficient to maintain the integrity of the root ball. If needed, pre-wet the container plant.
- Cut away any roots which are growing out of the container drain holes. Plants with excessive root growth from the drain holes should be rejected.
- Plant(s) should be carefully removed from the pot by gently pounding on the sides of the container with the fist to loosen root ball. Then carefully slide out. Do not lift plant(s) by trunk as this can break roots and cause soil to fall off. Extract the root ball in a horizontal position and support it to prevent it from breaking apart. Alternatively the pot can be cut away to minimize root ball disturbance.
- Remove any excess soil from above the root flare after removing plant(s) from container.
- Excavate a hole with a diameter 4" greater than the root ball, gently place the plant(s).
- If plant(s) have any circling roots from being pot bound, gently tease them loose without breaking them.
- If root ball has a root mat on the bottom, it should be shaved off with a knife just above the mat line.
- Plant the tree/shrub/grass with the top of the root ball 1" above surrounding media to allow for settling.
- All plants should have the main stem centered in the tree grate (where applicable) upon completion of installation.
- With all trees/shrubs, remove dead, diseased, crossed/rubbing, sharply crotched branches or branches growing excessively long or in wrong direction compared to majority of branches.
- To prevent transplant shock (especially if planting takes place in the hot season), it may be necessary to prune some of the foliage to compensate for reduced root uptake capacity. This is accomplished by pruning away some of the smaller secondary branches or a main scaffold branch if there are too many. Too much foliage relative to the root ball can dehydrate and damage the plant.
- Plant staking may be required.

Mulch Installation

- Only mulch that meets Contech Engineered Solutions' mulch specifications can be used in the Filterra system.
- Mulch must be applied to a depth of 3" evenly over the surface of the media.

Irrigation Requirements

- Each Filterra system must receive adequate irrigation to ensure survival of the living system during periods of drier weather.
- Irrigation sources include rainfall runoff from downspouts and/or gutter flow, applied water through the top/tree grate or in some cases from an irrigation system with emitters installed during construction.
- At Activation: Apply about one (cool climates) to two (warm climates) gallons of water per inch of trunk diameter over the root ball.
- During Establishment: In common with all plants, each Filterra plant will require more frequent watering during the establishment period. One inch of applied water per week for the first three months is recommended for cooler climates (2 to 3 inches for warmer climates). If the system is receiving rainfall runoff from the drainage area, then irrigation may not be needed. Inspection of the soil moisture content can be evaluated by gently brushing aside the mulch layer and feeling the soil. Be sure to replace the mulch when the assessment is complete. Irrigate as needed**.
- Established Plants: Established plants have fully developed root systems and can access the entire water column in the media. Therefore irrigation is less frequent but requires more applied water when performed. For a mature system assume 3.5 inches of available water within the media matrix. Irrigation demand can be estimated as 1" of irrigation demand per week. Therefore if dry periods exceed 3 weeks, irrigation may be required. It is also important to recognize that plants which are exposed to windy areas and reflected heat from paved surfaces may need more frequent irrigation. Long term care should develop a history which is more site specific.

** Five gallons per square yard approximates 1 inch of water Therefore for a 6' by 6' Filterra approximately 20-60 gallons of water is needed. To ensure even distribution of water it needs to be evenly sprinkled over the entire surface of the filter bed, with special attention to make sure the root ball is completely wetted. NOTE: if needed, measure the time it takes to fill a five gallon bucket to estimate the applied water flow rate then calculate the time needed to irrigate the Filterra. For example, if the flow rate of the sprinkler is 5 gallons/minute then it would take 12 minutes to irrigate a 6' by 6' filter.



Appendix 3 – Filterra® Tree Grate Opening Expansion Procedure

The standard grates used on all Filterra configurations that employ Tree Grates are fabricated with a 6″ opening that is designed with a breakaway section that can be removed, allowing the grate opening to be expanded to 12″ as the tree matures and the trunk widens.

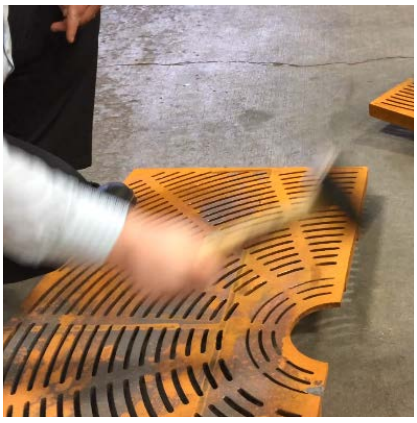
The following tools are required to expand the opening:

- Mini sledgehammer (3 lb. or greater)
- Safety Glasses / Goggles

The following guidelines should be followed to properly expand the tree opening from 6″ to 12″:



1. Remove the grate from the Filterra frame, place it flat on a hard surface, and support the grate by stepping on the edge or using other weighted items such as a few mulch bags if this is being done during a Filterra maintenance event. Put on safety glasses/goggles. Align the mini sledgehammer as shown in the figure to the left. The head of the sledgehammer should be aimed just inside the wide cast iron bar between the larger grate section and the breakaway section.



2. Repeatedly hit the grate at this spot with the mini sledgehammer.



3. After several hits, the breakaway section should snap cleanly off of the larger grate section. Reinstall the grate into the Filterra grate frame. Recycle or dispose of the breakaway section per local guidelines.

filterra®
Bioretention Systems

CONTECH®
ENGINEERED SOLUTIONS

9025 Centre Pointe Drive, Suite 400
West Chester, OH 45069
info@conteches.com | 800-338-1122
www.ContechES.com

© 2021 Contech Engineered Solutions LLC, a QUIKRETE Company

ALL RIGHTS RESERVED. PRINTED IN THE USA.

NOTHING IN THIS CATALOG SHOULD BE CONSTRUED AS A WARRANTY. APPLICATIONS SUGGESTED HEREIN ARE DESCRIBED ONLY TO HELP READERS MAKE THEIR OWN EVALUATIONS AND DECISIONS, AND ARE NEITHER GUARANTEES NOR WARRANTIES OF SUITABILITY FOR ANY APPLICATION. CONTECH MAKES NO WARRANTY WHATSOEVER, EXPRESS OR IMPLIED, RELATED TO THE APPLICATIONS, MATERIALS, COATINGS, OR PRODUCTS DISCUSSED HEREIN. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND ALL IMPLIED WARRANTIES OF FITNESS FOR ANY PARTICULAR PURPOSE ARE DISCLAIMED BY CONTECH. SEE CONTECH'S CONDITIONS OF SALE (AVAILABLE AT WWW.CONTECHES.COM/COS) FOR MORE INFORMATION.

PDF 6/21

APPENDIX 5

Source Control BMP Fact Sheets

S-1: Storm Drain Message and Signage

Purpose

Waste material dumped into storm drain inlets can adversely impact surface and ground waters. In fact, any material discharged into the storm drain system has the potential to significantly impact downstream receiving waters. Storm drain messages have become a popular method of alerting and reminding the public about the effects of and the prohibitions against waste disposal into the storm drain system. The signs are typically stenciled or affixed near the storm drain inlet or catch basin. The message simply informs the public that dumping of wastes into storm drain inlets is prohibited and/or that the drain ultimately discharges into receiving waters.

General Guidance

- The signs must be placed so they are easily visible to the public.
- Be aware that signs placed on sidewalk will be worn by foot traffic.

Design Specifications

- Signs with language and/or graphical icons that prohibit illegal dumping, must be posted at designated public access points along channels and streams within the project area. Consult with Los Angeles County Department of Public Works (LACDPW) staff to determine specific signage requirements for channels and streams.
- Storm drain message markers, placards, concrete stamps, or stenciled language/icons (e.g., “No Dumping – Drains to the Ocean”) are required at all storm drain inlets and catch basins within the project area to discourage illegal or inadvertent dumping. Signs should be placed in clear sight facing anyone approaching the storm drain inlet or catch basin from either side (see Figure D-1 and Figure D-2). LACDPW staff should be contacted to determine specific requirements for types of signs and methods of application. A stencil can be purchased for a nominal fee from LACDPW Building and Safety Office by calling (626) 458-3171. All storm drain inlet and catch basin locations must be identified on the project site map.

Maintenance Requirements

Legibility and visibility of markers and signs should be maintained (e.g., signs should be repainted or replaced as necessary). If required by LACDPW, the owner/operator or homeowner’s association shall enter into a maintenance agreement with the agency or record a deed restriction upon the property title to maintain the legibility of placards and signs.

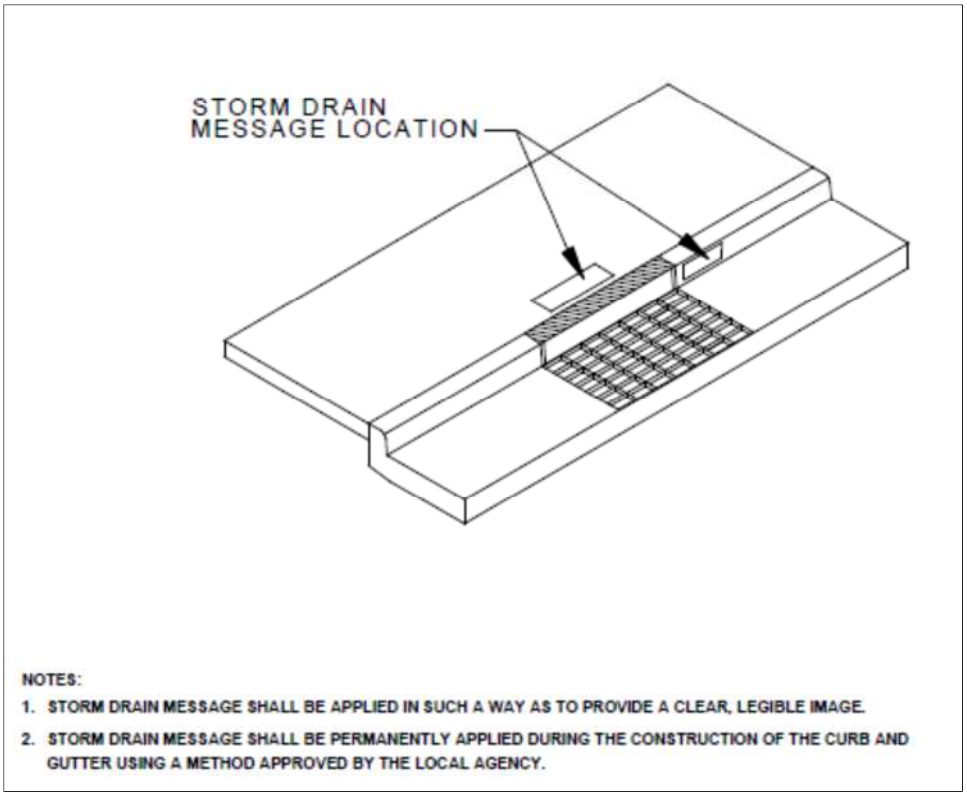


Figure D-1. Storm Drain Message Location – Curb Type Inlet

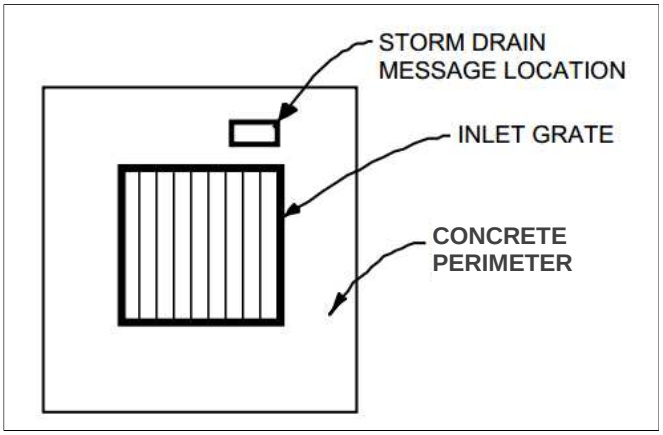


Figure D-2. Storm Drain Message Location – Catch Basin/Area Type Inlet

S-3: Outdoor Trash Storage and Waste Handling Area

Purpose

Stormwater runoff from areas where trash is stored or handled can be polluted. Loose trash and debris can be easily transported by water or wind into nearby storm drain inlets, channels, and/or receiving waters. Waste handling operations (i.e., dumpsters, litter control, waste piles) may be sources of stormwater pollution.

Design Specifications

Wastes from commercial and industrial sites are typically hauled away for disposal by either public or commercial carriers that may have design or access requirements for waste storage areas. Design specifications for waste handling areas are regulated by local building and fire codes and by current County ordinances and zoning requirements. The design specifications, listed below in Table D-3, are recommendations and are not intended to conflict with requirements established by the waste hauler. The design specifications are intended to enhance local codes and ordinances while addressing stormwater runoff concerns. The waste hauler should be contacted prior to the design of trash storage and collection areas to determine established and accepted guidelines for designing trash collection areas. All hazardous waste must be handled in accordance with the legal requirements established in Title 22 of the California Code of Regulations. Conflicts or issues should be discussed with LACDPW staff.

Table D-3. Design Specifications for Outdoor Trash Storage and Waste Handling Area

Design Feature	Design Specifications
Surfacing	• Construct/pave outdoor trash storage and waste handling area with Portland cement concrete or an equivalent impervious surface.
Screens/Covers	• Install a screen or wall around trash storage area to prevent off-site transport of loose trash. • Use lined bins or dumpsters to reduce leaking of liquid wastes. • Use waterproof lids on bins/dumpsters or provide a roof to cover storage area enclosure (LACDPW discretion) to prevent precipitation from entering containers.
Grading/Drainage	• Berm and/or grade waste handling area to prevent stormwater run-on. • Locate waste handling area at least 35 feet from storm drains. • Divert drainage from adjoining roofs and pavement away from adjacent trash storage areas.
Signs	• Post signs on all dumpsters and/or inside enclosures prohibiting disposal of liquids and hazardous materials in accordance with any waste disposal ordinance.

Accumulated Water

Stormwater runoff, non-stormwater runoff, and spills will accumulate in containment areas and sumps with impervious surfaces. Contaminated accumulated water must be disposed of in accordance with applicable laws and regulations, and cannot be discharged directly to the storm drain or sanitary sewer system without appropriate permitting. Contact LACDPW (1-888-CLEAN-LA) for information regarding discharge of contaminated accumulated water.

Maintenance Requirements

The integrity of structural elements that are subject to damage (e.g., screens, covers, signs) must be maintained by the owner/operator as required by local codes and ordinances. Outdoor trash storage and waste handling areas must be checked periodically to ensure containment of accumulated water and prevention of stormwater run-on. Maintenance agreements between LACDPW and the owner/operator may be required. Failure to properly maintain building and property may subject the property owner to citation.

S-8: Landscape Irrigation Practices

Purpose

Irrigation runoff provides a pathway for pollutants (i.e., nutrients, bacteria, organics, sediment) to enter the storm drain system. By effectively irrigating, less runoff is produced resulting in less potential for pollutants to enter the storm drain system.

General Guidance

- Do not allow irrigation runoff from the landscaped area to drain directly to storm drain system.
- Minimize use of fertilizer, pesticides, and herbicides on landscaped areas.
- Plan sites with sufficient landscaped area and dispersal capacity (e.g., ability to receive irrigation water without generating runoff).
- Consult a landscape professional regarding appropriate plants, fertilizer, mulching applications, and irrigation requirements (if any) to ensure healthy vegetation growth.

Design Specifications

- Choose plants that minimize the need for fertilizer and pesticides.
- Group plants with similar water requirements and water accordingly.
- Use mulch to minimize evaporation and erosion.
- Include a vegetative boundary around project site to act as a filter.
- Design the irrigation system to only water areas that need it.
- Install an approved subsurface drip, pop-up, or other irrigation system.[1] The irrigation system should employ effective energy dissipation and uniform flow spreading methods to prevent erosion and facilitate efficient dispersion.
- Install rain sensors to shut off the irrigation system during and after storm events.
- Include pressure sensors to shut off flow-through system in case of sudden pressure drop. A sudden pressure drop may indicate a broken irrigation head or water line.
- If the hydraulic conductivity in the soil is not sufficient for the necessary water application rate, implement soil amendments to avoid potential geotechnical hazards (i.e., liquefaction, landslide, collapsible soils, and expansive soils).

[1] If alternative distribution systems (e.g., spray irrigation) are approved, the County will establish guidelines to implement these new systems.

- For sites located on or within 50 feet of a steep slope (15% or greater), do not irrigate landscape within three days of a storm event to avoid potential geotechnical instability.[2]
- Implement Integrated Pest Management practices.

For additional guidelines and requirements, refer to the Los Angeles County Department of Health Services.

Maintenance Requirements

Maintain irrigation areas to remove trash and debris and loose vegetation. Rehabilitate areas of bare soil. If a rain or pressure sensor is installed, it should be checked periodically to ensure proper function. Inspect and maintain irrigation equipment and components to ensure proper functionality. Clean equipment as necessary to prevent algae growth and vector breeding. Maintenance agreements between LACDPW and the owner/operator may be required. Failure to properly maintain building and property may subject the property owner to citation.

[2] As determined by the City of Los Angeles, Building and Safety Division

S-9: Building Materials Selection

Purpose

Building materials can potentially contribute pollutants of concern to stormwater runoff through leaching. For example, metal buildings, roofing, and fencing materials may be significant sources of metals in stormwater runoff, especially due to acidic precipitation. The use of alternative building materials can reduce pollutant sources in stormwater runoff by eliminating compounds that can leach into stormwater runoff. Alternative building materials may also reduce the need to perform maintenance activities (i.e., painting) that involve pollutants of concern, and may reduce the volume of stormwater runoff. Alternative materials are available to replace lumber and paving.

Design Specifications

Lumber

Decks and other house components constructed using pressure-treated wood that is typically treated using arsenate, copper, and chromium compounds are hazardous to the environment. Pressure-treated wood may be replaced with cement-fiber or vinyl.

Roofs, Fencing, and Metals

Minimizing the use of copper and galvanized (zinc-coated) metals on buildings and fencing can reduce leaching of these pollutants into stormwater runoff. The following building materials are conventionally made of galvanized metals:

- Metal roofs;
- Chain-link fencing and siding; and
- Metal downspouts, vents, flashing, and trim on roofs.

Architectural use of copper for roofs and gutters should be avoided. As an alternative to copper and galvanized materials, coated metal products are available for both roofing and gutter application. Vinyl-coated fencing is an alternative to traditional galvanized chain-link fences. These products eliminate contact of bare metal with precipitation or stormwater runoff, and reduce the potential for stormwater runoff contamination. Roofing materials are also made of recycled rubber and plastic.

Green roofs may be an option. Green roofs use vegetation such as grasses and other plants as an exterior surface. The plants reduce the velocity of stormwater runoff and absorb water to reduce the volume of stormwater runoff. One potential problem with using green roofs in the Los Angeles County area is the long, hot and dry summers, which may kill the plants if they are not watered. See the Green Roof Fact Sheet (RET-7) in Appendix E.

Pesticides

The use of pesticides around foundations can be reduced through the use of alternative barriers. Sand barriers can be applied around foundations to deter termites, as they cannot tunnel through sand. Metal shields also block termites from tunneling. Additionally, diatomaceous earth can be used to repel or kill a wide variety of other pests.

Maintenance Requirements

The integrity of structural elements that are subject to damage (e.g., signs) must be maintained by the owner/operator as required by local codes and ordinances. Maintenance agreements between LACDPW and the owner/operator may be required. Failure to properly maintain building and property may subject the property owner to citation.

Site Design & Landscape Planning SD-10



Design Objectives

- ☑ Maximize Infiltration
- ☑ Provide Retention
- ☑ Slow Runoff
- ☑ Minimize Impervious Land Coverage
- Prohibit Dumping of Improper Materials
- Contain Pollutants
- Collect and Convey

Description

Each project site possesses unique topographic, hydrologic, and vegetative features, some of which are more suitable for development than others. Integrating and incorporating appropriate landscape planning methodologies into the project design is the most effective action that can be done to minimize surface and groundwater contamination from stormwater.

Approach

Landscape planning should couple consideration of land suitability for urban uses with consideration of community goals and projected growth. Project plan designs should conserve natural areas to the extent possible, maximize natural water storage and infiltration opportunities, and protect slopes and channels.

Suitable Applications

Appropriate applications include residential, commercial and industrial areas planned for development or redevelopment.

Design Considerations

Design requirements for site design and landscapes planning should conform to applicable standards and specifications of agencies with jurisdiction and be consistent with applicable General Plan and Local Area Plan policies.

CASQA
CALIFORNIA STORMWATER QUALITY ASSOCIATION

Designing New Installations

Begin the development of a plan for the landscape unit with attention to the following general principles:

- Formulate the plan on the basis of clearly articulated community goals. Carefully identify conflicts and choices between retaining and protecting desired resources and community growth.
- Map and assess land suitability for urban uses. Include the following landscape features in the assessment: wooded land, open unwooded land, steep slopes, erosion-prone soils, foundation suitability, soil suitability for waste disposal, aquifers, aquifer recharge areas, wetlands, floodplains, surface waters, agricultural lands, and various categories of urban land use. When appropriate, the assessment can highlight outstanding local or regional resources that the community determines should be protected (e.g., a scenic area, recreational area, threatened species habitat, farmland, fish run). Mapping and assessment should recognize not only these resources but also additional areas needed for their sustenance.

Project plan designs should conserve natural areas to the extent possible, maximize natural water storage and infiltration opportunities, and protect slopes and channels.

Conserve Natural Areas during Landscape Planning

If applicable, the following items are required and must be implemented in the site layout during the subdivision design and approval process, consistent with applicable General Plan and Local Area Plan policies:

- Cluster development on least-sensitive portions of a site while leaving the remaining land in a natural undisturbed condition.
- Limit clearing and grading of native vegetation at a site to the minimum amount needed to build lots, allow access, and provide fire protection.
- Maximize trees and other vegetation at each site by planting additional vegetation, clustering tree areas, and promoting the use of native and/or drought tolerant plants.
- Promote natural vegetation by using parking lot islands and other landscaped areas.
- Preserve riparian areas and wetlands.

Maximize Natural Water Storage and Infiltration Opportunities Within the Landscape Unit

- Promote the conservation of forest cover. Building on land that is already deforested affects basin hydrology to a lesser extent than converting forested land. Loss of forest cover reduces interception storage, detention in the organic forest floor layer, and water losses by evapotranspiration, resulting in large peak runoff increases and either their negative effects or the expense of countering them with structural solutions.
- Maintain natural storage reservoirs and drainage corridors, including depressions, areas of permeable soils, swales, and intermittent streams. Develop and implement policies and

regulations to discourage the clearing, filling, and channelization of these features. Utilize them in drainage networks in preference to pipes, culverts, and engineered ditches.

- Evaluating infiltration opportunities by referring to the stormwater management manual for the jurisdiction and pay particular attention to the selection criteria for avoiding groundwater contamination, poor soils, and hydrogeological conditions that cause these facilities to fail. If necessary, locate developments with large amounts of impervious surfaces or a potential to produce relatively contaminated runoff away from groundwater recharge areas.

Protection of Slopes and Channels during Landscape Design

- Convey runoff safely from the tops of slopes.
- Avoid disturbing steep or unstable slopes.
- Avoid disturbing natural channels.
- Stabilize disturbed slopes as quickly as possible.
- Vegetate slopes with native or drought tolerant vegetation.
- Control and treat flows in landscaping and/or other controls prior to reaching existing natural drainage systems.
- Stabilize temporary and permanent channel crossings as quickly as possible, and ensure that increases in run-off velocity and frequency caused by the project do not erode the channel.
- Install energy dissipaters, such as riprap, at the outlets of new storm drains, culverts, conduits, or channels that enter unlined channels in accordance with applicable specifications to minimize erosion. Energy dissipaters shall be installed in such a way as to minimize impacts to receiving waters.
- Line on-site conveyance channels where appropriate, to reduce erosion caused by increased flow velocity due to increases in tributary impervious area. The first choice for linings should be grass or some other vegetative surface, since these materials not only reduce runoff velocities, but also provide water quality benefits from filtration and infiltration. If velocities in the channel are high enough to erode grass or other vegetative linings, riprap, concrete, soil cement, or geo-grid stabilization are other alternatives.
- Consider other design principles that are comparable and equally effective.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define “redevelopment” in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. The definition of “ redevelopment” must be consulted to determine whether or not the requirements for new development apply to areas intended for redevelopment. If the definition applies, the steps outlined under “designing new installations” above should be followed.

Redevelopment may present significant opportunity to add features which had not previously been implemented. Examples include incorporation of depressions, areas of permeable soils, and swales in newly redeveloped areas. While some site constraints may exist due to the status of already existing infrastructure, opportunities should not be missed to maximize infiltration, slow runoff, reduce impervious areas, disconnect directly connected impervious areas.

Other Resources

A Manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), Los Angeles County Department of Public Works, May 2002.

Stormwater Management Manual for Western Washington, Washington State Department of Ecology, August 2001.

Model Standard Urban Storm Water Mitigation Plan (SUSMP) for San Diego County, Port of San Diego, and Cities in San Diego County, February 14, 2002.

Model Water Quality Management Plan (WQMP) for County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County, Draft February 2003.

Ventura Countywide Technical Guidance Manual for Stormwater Quality Control Measures, July 2002.

Efficient Irrigation SD-12



Design Objectives

- ☑ Maximize Infiltration
- ☑ Provide Retention
- ☑ Slow Runoff
- Minimize Impervious Land Coverage
- Prohibit Dumping of Improper Materials
- Contain Pollutants
- Collect and Convey

Description

Irrigation water provided to landscaped areas may result in excess irrigation water being conveyed into stormwater drainage systems.

Approach

Project plan designs for development and redevelopment should include application methods of irrigation water that minimize runoff of excess irrigation water into the stormwater conveyance system.

Suitable Applications

Appropriate applications include residential, commercial and industrial areas planned for development or redevelopment. (Detached residential single-family homes are typically excluded from this requirement.)

Design Considerations

Designing New Installations

The following methods to reduce excessive irrigation runoff should be considered, and incorporated and implemented where determined applicable and feasible by the Permittee:

- Employ rain-triggered shutoff devices to prevent irrigation after precipitation.
- Design irrigation systems to each landscape area's specific water requirements.
- Include design featuring flow reducers or shutoff valves triggered by a pressure drop to control water loss in the event of broken sprinkler heads or lines.
- Implement landscape plans consistent with County or City water conservation resolutions, which may include provision of water sensors, programmable irrigation times (for short cycles), etc.

CASQA
CALIFORNIA STORMWATER QUALITY ASSOCIATION

- Design timing and application methods of irrigation water to minimize the runoff of excess irrigation water into the storm water drainage system.
- Group plants with similar water requirements in order to reduce excess irrigation runoff and promote surface filtration. Choose plants with low irrigation requirements (for example, native or drought tolerant species). Consider design features such as:
  - Using mulches (such as wood chips or bar) in planter areas without ground cover to minimize sediment in runoff
  - Installing appropriate plant materials for the location, in accordance with amount of sunlight and climate, and use native plant materials where possible and/or as recommended by the landscape architect
  - Leaving a vegetative barrier along the property boundary and interior watercourses, to act as a pollutant filter, where appropriate and feasible
  - Choosing plants that minimize or eliminate the use of fertilizer or pesticides to sustain growth
- Employ other comparable, equally effective methods to reduce irrigation water runoff.

Redeveloping Existing Installations

Various jurisdictional stormwater management and mitigation plans (SUSMP, WQMP, etc.) define "redevelopment" in terms of amounts of additional impervious area, increases in gross floor area and/or exterior construction, and land disturbing activities with structural or impervious surfaces. The definition of " redevelopment" must be consulted to determine whether or not the requirements for new development apply to areas intended for redevelopment. If the definition applies, the steps outlined under "designing new installations" above should be followed.

Other Resources

A Manual for the Standard Urban Stormwater Mitigation Plan (SUSMP), Los Angeles County Department of Public Works, May 2002.

Model Standard Urban Storm Water Mitigation Plan (SUSMP) for San Diego County, Port of San Diego, and Cities in San Diego County, February 14, 2002.

Model Water Quality Management Plan (WQMP) for County of Orange, Orange County Flood Control District, and the Incorporated Cities of Orange County, Draft February 2003.

Ventura Countywide Technical Guidance Manual for Stormwater Quality Control Measures, July 2002.

APPENDIX 6

Public Education Materials

Storm Drains are for Rain...



More than 50% of the automotive oil sold to do-it-yourself oil changers is not recycled. There are more than 600 State-certified used oil collection centers within Los Angeles County.

Never dispose of automotive fluids in the street or gutter. Take them to your local auto parts store, gas station or repair shop, or a household hazardous waste Roundup for recycling.

1(888)CLEAN LA
www.888CleanLA.com

...not automotive fluids.



Car Care Tips:

You can keep your car running smoothly and efficiently, and at the same time help prevent stormwater pollution by taking these easy steps...

- When changing vehicle fluids — motor oil, transmission, brake and radiator fluids — drain them into separate drip pans to avoid spills. Do not combine these fluids. Do not dispose of these fluids in the street, gutter or garbage. It is illegal.
- If a spill occurs, use kitty litter, sawdust or cornmeal for cleanup. Do not hose or rinse with water.
- Recycle all used vehicle fluids. Call 1(888)CLEAN LA or visitwww.888CleanLA.com for the location of an auto parts store or gas station that recycles these fluids, or for the location of a local household hazardous waste Roundup.
- Regularly check and maintain your car to keep it running safely and efficiently. Water runoff from streets, parking lots and driveways picks up oil and grease drippings, asbestos from brake linings, zinc from tires and organic compounds and metals from spilled fuels and carries them to the ocean.



PROJECT Pollution PREVENTION

Printed on recycled paper

Storm Drains are for Rain...



More than 50% of the automotive oil sold to do-it-yourself oil changers is not recycled. There are more than 600 State-certified used oil collection centers within Los Angeles County.

Never dispose of automotive fluids in the street or gutter. Take them to your local auto parts store, gas station or repair shop, or a household hazardous waste Roundup for recycling.

1(888)CLEAN LA
www.888CleanLA.com

...not automotive fluids.



Car Care Tips:

You can keep your car running smoothly and efficiently, and at the same time help prevent stormwater pollution by taking these easy steps...

- When changing vehicle fluids — motor oil, transmission, brake and radiator fluids — drain them into separate drip pans to avoid spills. Do not combine these fluids. Do not dispose of these fluids in the street, gutter or garbage. It is illegal.
- If a spill occurs, use kitty litter, sawdust or cornmeal for cleanup. Do not hose or rinse with water.
- Recycle all used vehicle fluids. Call 1(888)CLEAN LA or visit www.888CleanLA.com for the location of an auto parts store or gas station that recycles these fluids, or for the location of a local household hazardous waste Roundup.
- Regularly check and maintain your car to keep it running safely and efficiently. Water runoff from streets, parking lots and driveways picks up oil and grease drippings, asbestos from brake linings, zinc from tires and organic compounds and metals from spilled fuels and carries them to the ocean.



PROJECT Pollution PREVENTION

Printed on recycled paper

Are You a Litter Bug and Don't Know It?

Take our quiz!

Have you ever...

- Dropped a cigarette butt or trash on the ground?
- Failed to pick up after your dog while out on a walk?
- Overwatered your lawn after applying fertilizers/pesticides?
- Disposed of used motor oil in the street, gutter or garbage?

If you answered **yes** to any of these actions, then **YOU ARE A LITTER BUG**!

Each of these behaviors contribute to stormwater pollution, which contaminates our ocean and waterways, kills marine life and causes beach closures.

You can become part of the solution!
To find out how, flip this card over.

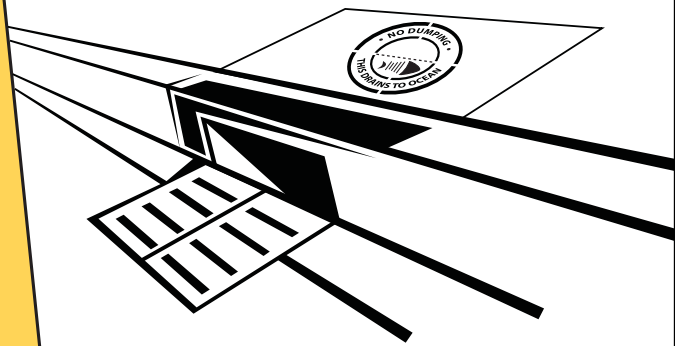
For more information, call or visit:

1 (888) CLEAN LA
www.888CleanLA.com

PROJECT Pollution PREVENTION

Follow these simple steps to prevent stormwater pollution:

- Put your garbage where it belongs — in the trash can.
- Pick up after your dog when out on a walk.
- Reduce pesticide and fertilizer use; don't overwater after application or apply if rain is forecast.
- Dispose of used motor oil at an oil recycling center or at a free Household Hazardous Waste/E-Waste collection event.



A message from the County of Los Angeles Department of Public Works.
Printed on recycled paper.

Don't Paint the Town Red!

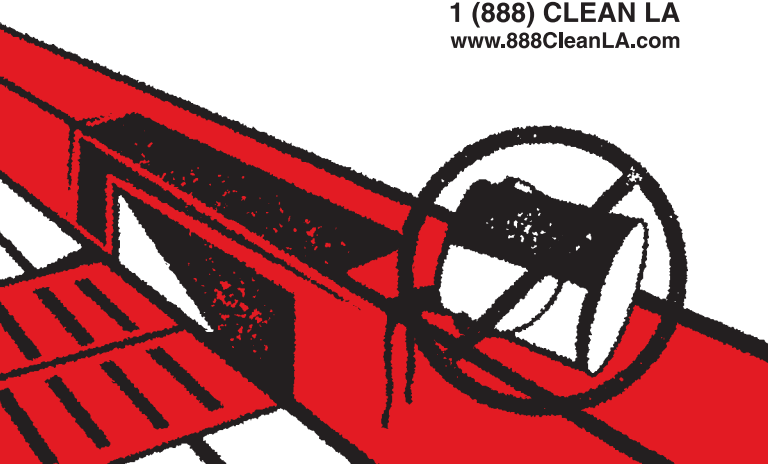
Storm drains are for rain…
they're not for paint disposal.

More than **197,000** times each month, L.A. County residents wash their dirty paint brushes under an outdoor faucet.

This dirty rinse water flows into the street, down the storm drain and straight to the ocean — **untreated**.

Remember to clean water-based paint brushes in the sink, rinse oil-based paint brushes with paint thinner, and take old paint and paint-related products to a Household Hazardous Waste/E-Waste collection event.

1 (888) CLEAN LA
www.888CleanLA.com



Tips for Paint Clean-Up:

L.A. County residents can help solve the stormwater pollution problem by taking these easy steps when working with paint and paint-related products…

- Never dispose of paint or paint-related products in the gutters or storm drains. This is called illegal dumping. Take them to a Household Hazardous Waste/E-Waste collection event. Call 1 (888) CLEAN LA or visit www.888CleanLA.com to locate an event near you.
- Buy only what you need. Reuse leftover paint for touch-ups or donate it to a local graffiti abatement program. Recycle or use excess paint.
- Clean water-based paint brushes in the sink.
- Oil-based paints should be cleaned with paint thinner. Filter and reuse paint thinner. Set the used thinner aside in a closed jar to settle-out paint particles.
- Store paints and paint-related products in rigid, durable and watertight containers with tight-fitting covers.

PROJECT Pollution PREVENTION

A message from the County of Los Angeles Department of Public Works.
Printed on recycled paper.

Storm Drains are for Rain...

More than 200,000 times each month, lawns and gardens throughout LA County are sprayed with pesticides. Overwatering or rain causes pesticides on leaves and grass to flow into the storm drain and to the ocean — untreated.



Please use pesticides wisely, not before a rain, and water carefully.

...not pesticides.



1(888)CLEAN LA
www.888CleanLA.com

Pesticide Tips:

You can keep your lawn and garden green and at the same time solve the pollution problem by taking these easy steps...

- Never dispose of lawn or garden chemicals in storm drains. This is called illegal dumping. Take them to a household hazardous waste roundup. Call 1(888)CLEAN LA or visit www.888CleanLA.com to locate a roundup or collection facility near you.
- More is not better. Use pesticides sparingly. "Spot" apply, rather than "blanket" apply.
- Read labels! Use only as directed.
- Use non-toxic products for your garden and lawn whenever possible.
- If you must store pesticides, make sure they are in a sealed, water-proof container that cannot leak.
- When watering your lawn, use the least amount of water possible so it doesn't run into the street and carry pesticide chemicals with it. Don't use pesticides before a rain storm. You will not only lose the pesticide, but also will be harming the environment.



PROJECT Pollution PREVENTION

Printed on recycled paper

Storm Drains are for Rain...

More than 200,000 times each month, lawns and gardens throughout LA County are sprayed with pesticides. Overwatering or rain causes pesticides on leaves and grass to flow into the storm drain and to the ocean — untreated.



Please use pesticides wisely, not before a rain, and water carefully.

...not pesticides.



1(888)CLEAN LA
www.888CleanLA.com

Pesticide Tips:

You can keep your lawn and garden green and at the same time solve the pollution problem by taking these easy steps...

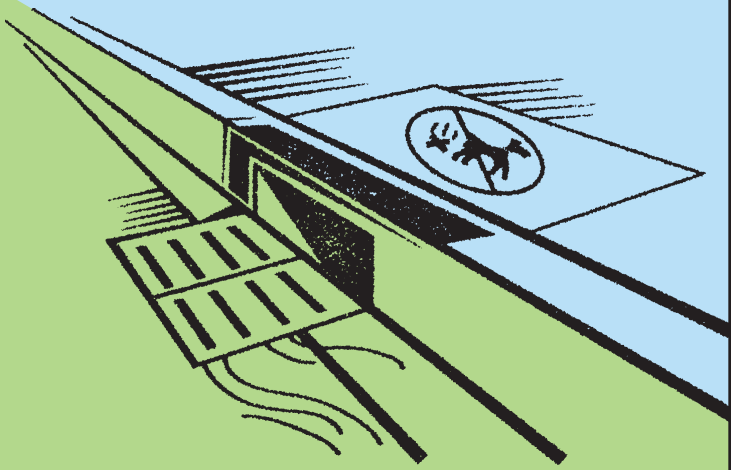
- Never dispose of lawn or garden chemicals in storm drains. This is called illegal dumping. Take them to a household hazardous waste roundup. Call 1(888)CLEAN LA or visit www.888CleanLA.com to locate a roundup or collection facility near you.
- More is not better. Use pesticides sparingly. "Spot" apply, rather than "blanket" apply.
- Read labels! Use only as directed.
- Use non-toxic products for your garden and lawn whenever possible.
- If you must store pesticides, make sure they are in a sealed, water-proof container that cannot leak.
- When watering your lawn, use the least amount of water possible so it doesn't run into the street and carry pesticide chemicals with it. Don't use pesticides before a rain storm. You will not only lose the pesticide, but also will be harming the environment.



PROJECT Pollution PREVENTION

Printed on recycled paper

Pick Up After Your Pooch!



Storm drains are for rain…
they're not pooper scoopers.

L.A. County residents walk a dog without picking up the droppings more than **62,000** times per month.

Disease-causing dog waste washes from the ground and streets into storm drains and flows straight to the ocean — untreated.

Remember to bring a bag and clean up after your dog.

1 (888) CLEAN LA
www.888CleanLA.com

Tips for Dog Owners:

Dog owners can help solve the stormwater pollution problem by taking these easy steps…

- Clean up after your dog every single time.
- Take advantage of the complimentary waste bags offered in dispensers at local parks.
- Ensure you always have extra bags in your car so you are prepared when you travel with your dog.
- Carry extra bags when walking your dog and make them available to other pet owners who are without.
- Teach children how to properly clean up after a pet. Encourage them to throw the used bags in the nearest trash receptacle if they are away from home.
- Put a friendly message on the bulletin board at the local dog park to remind pet owners to clean up after their dogs.
- Tell friends and neighbors about the ill effects of animal waste on the environment. Encourage them to clean up after their pets as well.

PROJECT Pollution PREVENTION

Storm Drains are for Rain...

Stormdrains take runoff directly to creeks and the ocean without treatment. Pool chemicals can harm our natural creeks and waterways. Anything going into our stormdrains that isn't rainwater contributes to stormwater pollution, which contaminates our creeks and ocean, kills marine life and causes beach closures.

...not pool chemicals



LOS ANGELES COUNTY PUBLIC WORKS Public Service That Works

Swimming Pool Tips

Follow these simple steps to prevent stormwater pollution...

- Make sure all chemicals are dissipated before draining a pool or spa
- Do not drain pools within 5 days of adding chemicals
- Never backwash a filter into the street or stormdrain
- Cleanup chemical spills with absorbent, don't wash it down the drain
- Dispose of leftover chemicals and paints through a licensed hazardous waste disposal provider

PROJECT Pollution PREVENTION

Storm Drains are for Rain...

More than 50% of the automotive oil sold to do-it-yourself oil changers is not recycled. There are more than 600 State-certified used oil collection centers within Los Angeles County.

Never dispose of automotive fluids, recyclable products, or household hazardous wastes into the street or gutter. Take them to your local auto repair station, recycling center or a household hazardous waste roundup.

...they're not recycling centers.

1(888)CLEAN LA
www.888CleanLA.com



Recycling Tips:

You can help keep your community clean, protect our area waterways and make the beaches safe for ocean swimmers by putting recyclable materials where they belong — at a recycling center or household hazardous waste roundup. Never throw or pour anything into the streets or gutters...

- When changing vehicle fluids – transmission, hydraulic and motor oil, brake and radiator fluid – drain them into a drip pan to avoid spills. Do not combine these fluids. Do not dispose of them in the street, gutter or in the garbage. It is illegal.
- Recycle all used vehicle fluids. Call 1(888)CLEAN LA or visit www.888CleanLA.com for the location of a center that recycles these fluids, or for the location of a local household hazardous waste Roundup.
- Other materials that should be taken to a household hazardous waste Roundup are: paint and paint-related materials, household cleaners, batteries, pesticides and fertilizers, pool chemicals, and aerosol products.
- Aluminum, glass, plastic and newspapers should be placed in your curbside recycling bin or taken to a local recycling center.

Printed on recycled paper

PROJECT Pollution PREVENTION

Storm Drains are for Rain...

More than 50% of the automotive oil sold to do-it-yourself oil changers is not recycled. There are more than 600 State-certified used oil collection centers within Los Angeles County.

Never dispose of automotive fluids, recyclable products, or household hazardous wastes into the street or gutter. Take them to your local auto repair station, recycling center or a household hazardous waste roundup.

...they're not recycling centers.

1(888)CLEAN LA
www.888CleanLA.com



Recycling Tips:

You can help keep your community clean, protect our area waterways and make the beaches safe for ocean swimmers by putting recyclable materials where they belong — at a recycling center or household hazardous waste roundup. Never throw or pour anything into the streets or gutters...

- When changing vehicle fluids – transmission, hydraulic and motor oil, brake and radiator fluid – drain them into a drip pan to avoid spills. Do not combine these fluids. Do not dispose of them in the street, gutter or in the garbage. It is illegal.
- Recycle all used vehicle fluids. Call 1(888)CLEAN LA or visit www.888CleanLA.com for the location of a center that recycles these fluids, or for the location of a local household hazardous waste Roundup.
- Other materials that should be taken to a household hazardous waste Roundup are: paint and paint-related materials, household cleaners, batteries, pesticides and fertilizers, pool chemicals, and aerosol products.
- Aluminum, glass, plastic and newspapers should be placed in your curbside recycling bin or taken to a local recycling center.

Printed on recycled paper

PROJECT Pollution PREVENTION

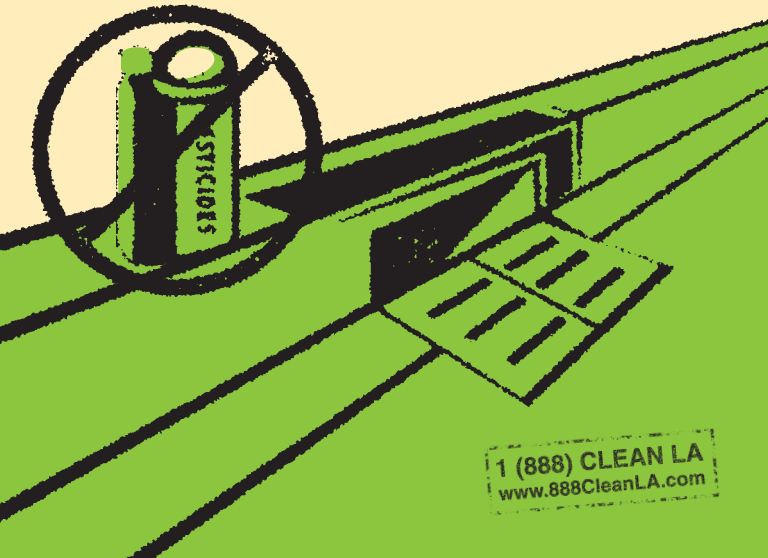
A Yard is a Terrible Thing to Waste!

Storm drains are for rain…**not yard waste.**

Residential yard waste represents about **13 percent** of the total waste generated in L.A. County.

Pesticides, fertilizer and yard waste such as leaves and mowed grass wash from the ground and streets into storm drains and flow straight to the ocean — **untreated**.

Remember to use pesticides and fertilizer wisely and pick-up yard waste.



Tips For Yard Care:

L.A. County residents can help solve the stormwater pollution problem by taking these easy steps…

- Do not over-fertilize and do not use fertilizer or pesticides near ditches, gutters or storm drains.
- Do not use fertilizer or pesticides before a rain.
- Follow the directions on the label carefully.
- Use pesticides sparingly — more is not better. "Spot" apply, rather than "blanket" apply.
- When watering your lawn, use the least amount of water possible so it doesn't run into the street carrying pesticides and other chemicals with it.
- Use non-toxic products for your garden and lawn whenever possible.
- If you must store pesticides or fertilizer, make sure they are in a sealed, water-proof container in a covered area to prevent runoff.
- Do not blow, sweep, hose or rake leaves or other yard trimmings into the street, gutter or storm drain.

PROJECT Pollution PREVENTION

A message from the County of Los Angeles Department of Public Works.
Printed on recycled paper.

APPENDIX 7

Soils/Geotechnical Report

July 13, 2020 Project No. 20080-01

Mr. Jon Conk
Project Dimensions, Inc.
4 Park Plaza, Suite 700
Irvine, California 92614

Subject: ***Summary of Geotechnical Evaluation and Feasibility Study, Proposed Residential Development, Portions of Royal Vista Golf Course, Rowland Heights, California***

Introduction

In accordance with your request and authorization, LGC Geotechnical, Inc. has performed a preliminary geotechnical evaluation and feasibility study for the proposed residential development to be located on portions of the existing Royal Vista Golf Course in the City of Rowland Heights, California. We have prepared this report to present the findings of our study and our conclusions with regard to feasibility of site development from a geotechnical standpoint.

Site Description

The subject site consists of approximately 44 acres of the Royal Vista Golf Course proposed for residential development both east and west of Colima Road in Rowland Heights, California (Figure 1). Site elevations within the development areas range from 520 to 660 above mean sea-level (msl). The majority of the site is gently sloping. Some steeper slopes exist on portions of the perimeters of the site. It is anticipated that site grading will include constructing slopes of approximately 2:1 (horizontal to vertical) inclinations and relatively level pads for construction of buildings and streets. The site is predominately open space consisting of a grass golf course holes and the driving range; however, sections of landscaped trees and scattered brush, and cart paths are scattered throughout the site. A relatively small maintenance structure is located in the east central portion of the site.

We understand potential development of the site may include grading for and construction of approximately 434 residential units, associated interior drives, parking, a community park and open space (KTGY, 2020).

Geotechnical Evaluation

The field portion of our evaluation included geologic mapping of the site and excavation of seven hollow stem borings. The borings (HS-1 through HS-7) were excavated using a track drill rig equipped with 8-inch-diameter hollow-stem augers with depths ranging from approximately 10 to 26.5 feet

below existing grade. An LGC Geotechnical representative observed the drilling operations, logged the borings, and collected soil samples for laboratory testing. Driven soil samples were collected by means of the Standard Penetration Test (SPT) and Modified California Drive (MCD) sampler. The SPT sampler (1.4-inch ID) and MCD sampler (2.4-inch ID, 3.0-inch OD) were driven using a 140-pound hammer falling 30 inches to advance the sampler a total depth of 18 inches or until refusal. Bulk samples were also collected and logged for laboratory testing at select depths. The raw blow counts for each 6-inch increment of penetration were recorded on the boring logs. The borings were backfilled with cuttings and tamped for densification, to reduce surficial subsidence.

The approximate locations of our subsurface explorations are provided on the Boring Location Map (Sheet 1). The boring logs are provided in Appendix B.

Laboratory Testing

Representative driven and bulk samples were retained for laboratory testing during our field evaluation. Laboratory testing included in-situ moisture content and in-situ dry density, Atterberg limits, fines content, expansion potential, laboratory compaction, and corrosivity (sulfate, chloride, pH, and minimum resistivity).

A summary of the laboratory test results is provided in Appendix C.

- Dry density of the samples collected ranged from approximately 90 pounds per cubic foot (pcf) to 119 pcf, with an average of 106 pcf. Field moisture contents ranged from approximately 9 percent to 32 percent, with an average of 20 percent.
- Three Atterberg limit (liquid limit and plastic limit) tests were performed. Results indicated Plasticity Index values of 5, 12, and 26.
- Three fines content tests indicated fines contents (passing No. 200 sieve) of approximately 41, 49 and 50 percent. Based on the Unified Soils Classification System (USCS), the tested sample would be classified as “coarse-grained” and “fine-grained.”
- Expansion potential testing indicated an expansion index value of 56, corresponding to “Medium” expansion potential.
- Laboratory compaction testing of a bulk samples indicated a maximum dry density of 114.0 pcf and 116.0 pcf and optimum moisture content of 9.0 and 15.5 percent, respectively.
- Corrosion testing indicated a soluble sulfate content of approximately 0.05 percent, a chloride content of 144 parts per million (ppm), a pH value of 8.54, and a minimum resistivity value of 710 ohm-centimeters.

A summary of the laboratory test results is presented in Appendix C. The moisture and dry unit weight results are presented on the boring logs in Appendix B.

Geotechnical Conditions

Based on our background review and limited subsurface evaluation, the subject site was found to be underlain by older artificial fill that was encountered at depths extending from approximately 2.5 feet to 25 feet below existing grades. The fill was placed as part of original golf course construction in 1963. Documentation of the fill placement was not identified. It does not appear that the fill was placed as an engineered fill with geotechnical observation and testing during placement and compaction. It is also not clear that appropriate remedial grading was performed prior to placement of the fill. As such, the site fill materials should be considered not suitable to support structures or to receive additional fill soils. The fill soils and underlying compressible native materials should be removed to suitable native material during site grading. The artificial fill is underlain at depth by bedrock associated with the Soquel Member of the Puente Formation. The Soquel Member of the Puente Formation generally consists of massive, well cemented fine to coarse grained light brown to yellow sandstones that are locally interbedded with gray siltstones. In general, bedding in the area of the subject site is trending east-west to northwesterly and dipping toward the northeast (Dibblee, 2001).

Shallow groundwater conditions are generally not anticipated to impact the proposed development following grading of the site. However, localized areas with significant amounts of perched groundwater within the older artificial fill and upper portions of the underlying native materials should be anticipated during site remedial grading. Historic high groundwater is mapped in a relatively small portion of the site adjacent to the intersection of East Walnut Drive and Bellavista Drive at a depth of 0 to 30 feet below existing grade (CGS, 2005a).

The site is not located within a mapped State of California Earthquake Fault Rupture Hazard Zone (Alquist-Priolo Special Studies Zone) and no known active or potentially active faults cross the site. The nearest known active or potentially active fault is the Whittier section of the Elsinore fault zone located approximately 3 miles (4.8 kilometers) southwest of the site.

No active or inactive faults are mapped in the vicinity of the site (Dibblee, 2001). No landslides were observed or have been mapped in the vicinity of the site (Dibblee, 2001). Some slopes along the southeastern most site boundary are located in a zone of potential seismically-induced landsliding (CGS, 2005b). A relatively small portion of the subject site, adjacent to the intersection of East Walnut Drive and Bellavista Drive, is located in a zone characterized as being potential susceptible to seismically-induced liquefaction (CGS, 2005b).

Conclusions and Recommendations

Based on the results of our preliminary geotechnical evaluation, it is our professional opinion that proposed development of the site is feasible from a geotechnical standpoint. However, significant remedial grading across the majority of the site will be required. This and the other geotechnical constraints and advantages of the site are discussed in the follow subsections.

Please note that the subject evaluation was focused on the geotechnical conditions of the site and feasibility of site development in consideration of the geologic constraints encountered. The intent of this study was to provide sufficient data to allow prospective developers to understand the site geologic conditions and how they will impact the proposed site development. Once development plans have been prepared, additional field work, geotechnical analyses and laboratory testing must be

performed in order to provide design-level geotechnical recommendations. A full geotechnical evaluation report can be prepared at that time, including project specific conclusions, recommendations and parameters for site design, grading, and construction. It is anticipated that the results of our feasibility evaluation, provided herein, will contribute data to that study.

1) *Remedial Grading*

The majority of the site is underlain by potentially compressible, older artificial fill, which in-turn is underlain by potentially compressible native soils. The depth of potentially compressible materials recommended for removal and recompaction during site remedial grading are estimated to be on the order of approximately 25 feet below existing grades. This should be further evaluated based on the proposed grading plan and structural loads of the proposed building structures.

Significant remedial grading depths (up to approximately 25 feet below existing grade) adjacent to property lines and existing improvements should be anticipated and may require steep backcuts, temporary slot-cuts or temporary shoring. This should be further studied during a future geotechnical evaluation and when grading plans are available.

2) *Groundwater*

Groundwater was encountered in five of the seven borings, as shallow as 2.5 feet below the exiting grade. Very moist to wet soils (saturated conditions) remained in most borings to the maximum explored depth of approximately 26.5 feet below existing grade. Historic high groundwater is mapped in a relatively small portion of the site adjacent to the intersection of East Walnut Drive and Bellavista Drive at a depth of 0 to 30 feet below existing grade (CGS, 2005a). However, the vast majority of the subject site is not mapped as having a historic high groundwater table within 50 feet of the surface.

Localized areas of perched groundwater within the older artificial fill and upper portions of the underlying native materials were encountered and are anticipated during site remedial grading. Perched groundwater was encountered at depths as shallow as 2.5 feet below existing grade. It is our opinion that the perched groundwater has concentrated in the low-lying areas of the site within the older artificial fill above the underlying bedrock. Some of the native materials below the fill are also anticipated to be wet/saturated. Potential sources of the perched groundwater may be the golf course irrigation, leakage from the existing water ponds and precipitation/stormwater.

During grading, the contractor should anticipate wet removals, drying out or mixing of very wet/saturated materials and stabilization of wet/saturated native removal bottoms. Grading methods for controlling subsurface water such as localized construction dewatering, top loading, etc., may be required by the contractor. This should be further studied during a future geotechnical evaluation.

Shallow groundwater conditions are generally not anticipated to impact the proposed development following grading of the site and implementation of geotechnical

recommendations for controlling subsurface water (e.g., subdrains). However, localized areas of perched groundwater may form after the site is developed due to seasonal precipitation, irrigation, land use, etc.

3) Slope Stability

Slope stability was not directly evaluated in this study. Based on the preliminary site plan, the majority of the site will be relatively flat lying. However, some cut, and some fill slopes will be constructed around the perimeter. In general, it is anticipated that proposed fill slopes, constructed of the site materials at inclination of 2:1 (horizontal to vertical) or flatter will be both grossly and surficially stable. Once a preliminary grading plan has been prepared, proposed cut slopes should be evaluated for potentially unstable conditions, including adverse bedding and existing slope stability issues. Although the proposed site slopes are not anticipated to be very tall, landslides and slope stability issues have been known to occur in the vicinity.

Some slopes along the southeastern most site boundary are located in a zone of potential seismically-induced landsliding (CGS, 2005b). No evidence of landslides was observed during our feasibility level site visit or are mapped in the vicinity of the site (Dibblee, 2001). However, the presence of landslides should be further evaluated during a future geotechnical report.

4) Seismicity

The site is not located within a mapped State of California Earthquake Fault Rupture Hazard Zone (Alquist-Priolo Special Studies Zone) and there are no active or potentially active faults mapped on or in close vicinity of the site (Dibblee, 2001).

The main seismic hazard that may affect the site is from ground shaking from one of the active regional faults. The subject site will likely experience strong seismic ground shaking during its design life. Parameters for seismic design in accordance with the current California Building Code should be provided in future geotechnical reports for the project.

5) Liquefaction and Earthquake-Induced Landslides

A relatively small portion of the subject site, adjacent to the intersection of East Walnut Drive and Bellavista Drive, is located in a zone characterized as being potential susceptible to seismically-induced liquefaction (CGS, 2005b). The majority of the site is anticipated to possess a low potential for liquefaction following expected remedial grading (removal of fill to suitable native materials/bedrock). However, liquefaction potential should be further evaluated during a future geotechnical evaluation.

Some slopes along the southeastern most site boundary are located in a zone of potential seismically-induced landsliding (CGS, 2005b). Slope stability should be addressed during future evaluation for the proposed development once preliminary grading plans have been prepared.

6) *Rippability and Oversized Material*

Although, site development plans are not yet available for our review, it is anticipated that proposed depth of cut for the proposed development will be relatively shallow. Hard rock material (e.g. granitics and volcanics), were not encountered in our evaluation and are not anticipated in the vicinity of the site. As such, rippability is generally not anticipated to be a significant issue during site grading with heavy duty construction equipment. Lighter equipment may have localized excavation difficulty in deeper cut areas into the site bedrock for excavation of trenches.

Generation of some oversized material (material larger than 8 inches in maximum dimension) during site grading should be anticipated. Recommendations for appropriate handling of oversized materials should be provided in future geotechnical reports for the project.

7) *Temporary Excavations*

Excavations should be made in accordance with Cal/OSHA, as a general guideline. Excavation safety is the sole responsibility of the contractor. Recommendations for temporary slot-cuts and/or temporary shoring for excavations near property lines may be necessary in a future geotechnical report once grading plans are available, if necessary.

8) *Fill Placement*

In general, it appears that the onsite soils should be considered geotechnically suitable for reuse as compacted fill provided the soils are free of organics, oversized materials, and other deleterious material. Oversized materials may be placed in nonstructural areas or in structural fills if placed in accordance with the recommendations of the geotechnical consultant and local grading codes.

In general, the site contains soils that are not suitable for retaining wall backfill due to their fines content and expansion potential, therefore import of sandy soils will likely be required by the contractor for obtaining suitable backfill soil for planned site retaining walls. One boring (HS-5) contained generally clean sand which could potentially be used for backfill, however additional laboratory testing, and information with regard to the lateral extent and depth of the sand bed, with regard to design grade elevations would be needed to determine feasibility.

9) *Expansive Soils*

Based on the preliminary feasibility level laboratory testing, the onsite soils are expected to have a "Medium" expansion potential. Mitigation measures to reduce the potential impacts of expansive soils on building foundations, structures and non-structural flatwork will be recommended. Post-tensioned/stiffened building slab systems and pre-soaking of the subgrade for building slabs and non-structural flatwork should be anticipated due to site expansive soils.

10) Corrosive Soils

Based on laboratory sulfate test results, the near surface soils are designated to a class "S0" per ACI 318, Table 19.3.1.1 with respect to sulfates. Soils are not considered corrosive per Caltrans criteria (Caltrans, 2018). Revision of the corrosion potential may be needed, should future test results differ substantially from the conditions reported herein. The client and/or other members of the development team should consider this during the design and planning phase of the project and formulate an appropriate course of action.

11) Subsurface Water Infiltration

Infiltration testing was not performed as part of this feasibility level evaluation. However, purposeful subsurface infiltration of stormwater may not be possible at the subject site due to the anticipated post-graded condition of compacted artificial fill overlying dense bedrock materials. If proposed, infiltration potential should be further studied during a future geotechnical evaluation.

Limitations

Our services were performed using the degree of care and skill ordinarily exercised, under similar circumstances, by reputable soils engineers and geologists practicing in this or similar localities. No other warranty, expressed or implied, is made as to the conclusions and professional advice included in this report.

Our services were provided in order to form an opinion concerning the suitability of the proposed development relative to the geotechnical aspects of the site. The data and information provided in this report are based on observations made by representatives of our firm during a brief site visit. This report is not a warranty of the work performed by others.

In addition, changes in applicable or appropriate standards may occur, whether they result from legislation or the broadening of knowledge. Accordingly, the findings of this report may be invalidated wholly or partially by changes outside our control. Therefore, this report is subject to review and modification, and should not be relied upon after a period of 3 years.

Should you have any questions regarding this report, please do not hesitate to contact our office. We appreciate this opportunity to be of service.

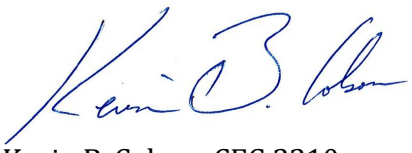
Respectfully,

LGC Geotechnical, Inc.





Ryan L. Douglas, GE 3147
Project Engineer





Kevin B. Colson, CEG 2210
Vice President

KBC/RLD/ARN/amm

Attachments: Figure 1 – Site Location Map
Sheet 1 – Boring Location Map

Appendix A - References
Appendix B - Boring Logs
Appendix C - Laboratory Test Results

Distribution: (4) Addressee (3 wet-signed copies and 1 electronic copy)



LGC Geotechnical, Inc.

FIGURE 1
Site Location Map

PROJECT NAME	Royal Vista Golf Course
PROJECT NO.	20080-01
ENG. / GEOL.	RLD / KBC
SCALE	Not to Scale
DATE	July 2020

Appendix A
References

APPENDIX A

References

California Building Standards Commission, 2019, California Building Code, California Code of Regulations Title 24, Volumes 1 and 2, dated July 2019.

California Department of Conservation, Division of Mines and Geology [CDMG], 2000, Seismic Hazard Zone Report for the Prado Dam 7.5-Minute Quadrangle, Orange County, California, Seismic Hazard Zone Report 045, dated 2000

_____, 2003, State of California Earthquake Fault Zones, Prado Dam Quadrangle, Revised Official Map Effective: May 1, 2003

California Geological Survey (CGS), (Previously California Division of Mines and Geology), 2000, Digital Images of Official Maps of Alquist-Priolo Earthquake Fault Zones of California, Southern Region, CDMG CD 2000-03.

_____, 2005a, Seismic Hazard Zone Report for the Yorba Linda 7.5-Minute Quadrangle, Los Angeles, Orange County, and Riverside Counties, California, Open File Report 010.

_____, 2005b, State of California Seismic Hazard Zones, Yorba Linda 7.5-Minute Quadrangle, Official Map, Released August 11, 2005.

_____, 2007, Fault-Rupture Hazard Zones in California, Alquist-Priolo Earthquake Fault Zoning Act with Index to Earthquake Fault Zones Maps, Special Publication 42, Interim Revision 2007.

Caltrans, 2018, California Department of Transportation Division of Engineering Services Material Engineering and Testing Services Corrosion Branch, Corrosion Guidelines, Version 3.0, dated March 2018.

Dibblee, Thomas W. Jr., 2001, Geologic Map of the Yorba Linda and Prado Dam Quadrangles (Eastern Puente Hills) Los Angeles, Orange, San Bernardino and Riverside Counties, California, March 2001.

Fuscoe Engineering, 2020, Royal Golf Course Exhibit 1, dated May 26, 2020.

KTGY Architecture & Planning (KTGY), 2020, Site Plan, Concept Design, Royal Vista, Los Angeles County, California, dated May 12, 2020.

Morton, D.M, 2004, Preliminary Geologic Map of the Santa Ana 30' x 60' Quadrangle, Southern California, Version 2.0, Open-File Report 99-172.

Appendix B
Boring Logs

Geotechnical Boring Log Borehole HS-1

Date: 6/9/2020 | **Drilling Company:** 2R Drilling

Project Name: Royal Vista Golf Course | **Type of Rig:** Track Rig

Project Number: 20080-01 | **Drop:** 30" | **Hole Diameter:** 8"

Elevation of Top of Hole: ~521' MSL | **Drive Weight:** 140 pounds

Hole Location: See Geotechnical Map |

Logged By ARN
Sampled By ARN
Checked By KBC

Elevation (ft)	Depth (ft)	Graphic Log	Sample Number	Blow Count	Dry Density (pcf)	Moisture (%)	USCS Symbol	DESCRIPTION	Type of Test
520	0							**@0' to 20' Older Artificial Fill (afo):** @0' - Silty SAND: dark gray brown, moist; grass	
			R-1	6 9 11	108.1	8.7	SM	@2.5' - Silty SAND: dark gray brown, moist, medium dense; scattered roots/rootlets	-#200
515	5		SPT-1	5 4 5		12.7	ML	@5' - Sandy SILT: medium to dark brown, moist, stiff	
			R-2	3 7 10	111.5	18.8		@7.5' - Sandy SILT: brown, very moist, stiff	
510	10		SPT-2	4 5 7		18.4	CL-ML	@10' - Clayey SILT: light brown, very moist, stiff	AL
505	15		R-3	7 10 12	105.0	22.8	CL	@15' - CLAY: brown, stiff, wet	
500	20		SPT-3	8 10 14		32.0	ML	**@20' to T.D. Tertiary Puente Formation (Tp):** @20' Sandy SILT: light gray and light red-orange, wet, very stiff	
495	25		R-4	21 50/3"	96.2	25.2	SM	@25' Silty SAND: gray with red-orange staining, wet, very dense	
	30							Total Depth = 26.5' Groundwater Encountered at Approximately 9' Backfilled with Cuttings on 6/9/2020	

LGC Geotechnical, Inc.

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. THE DESCRIPTIONS PROVIDED ARE QUALITATIVE FIELD DESCRIPTIONS AND ARE NOT BASED ON QUANTITATIVE ENGINEERING ANALYSIS.

SAMPLE TYPES:

B	BULK SAMPLE
R	RING SAMPLE (CA Modified Sampler)
G	GRAB SAMPLE
SPT	STANDARD PENETRATION TEST SAMPLE
▽	GROUNDWATER TABLE

TEST TYPES:

DS	DIRECT SHEAR
MD	MAXIMUM DENSITY
SA	SIEVE ANALYSIS
S&H	SIEVE AND HYDROMETER
EI	EXPANSION INDEX
CN	CONSOLIDATION
CR	CORROSION
AL	ATTERBERG LIMITS
CO	COLLAPSE/SWELL
RV	R-VALUE
-#200	% PASSING # 200 SIEVE

Last Edited: 7/7/2020

Geotechnical Boring Log Borehole HS-2

Date: 6/9/2020	**Drilling Company:** 2R Drilling
Project Name: Royal Vista Golf Course	**Type of Rig:** Track Rig
Project Number: 20080-01	**Drop:** 30" **Hole Diameter:** 8"
Elevation of Top of Hole: ~523' MSL	**Drive Weight:** 140 pounds
Hole Location: See Geotechnical Map	Page 1 of 1

Logged By ARN
Sampled By ARN
Checked By KBC

Elevation (ft)	Depth (ft)	Sample Number	Blow Count	Dry Density (pcf)	Moisture (%)	USCS Symbol	DESCRIPTION	Type of Test
520	0	SPT-1	6 8 10		17.1	CL	**@0' to 15' <u>Older Artificial Fill (afo):</u>** @0' - CLAY: dark brown, moist; grass @2.5' - CLAY: dark brown, moist, very stiff; scattered rootlets	AL
	5	R-1	11 19 25	113.0	16.4		@5' - CLAY: gray brown, moist, very stiff	
515		SPT-2	5 8 9		18.1		@7.5' - Sandy CLAY: olive brown, very moist, very stiff	
	10	R-2	15 20 26	98.9	26.9	MH	@10' - SILT: blue gray and rusty brown, very moist, very stiff	
510	15	SPT-3	10 25 50		27.9	SM	**@15' to T.D. <u>Tertiary Puente Formation (Tp):</u>** @15' - SANDSTONE: bluegray and red orange, wet, very dense	
505	20						Total Depth = 16.5' Groundwater Not Encountered Backfilled with Cuttings on 6/9/2020	
500	25							
495	30							

LGC Geotechnical, Inc.

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. THE DESCRIPTIONS PROVIDED ARE QUALITATIVE FIELD DESCRIPTIONS AND ARE NOT BASED ON QUANTITATIVE ENGINEERING ANALYSIS.

SAMPLE TYPES:

B	BULK SAMPLE
R	RING SAMPLE (CA Modified Sampler)
G	GRAB SAMPLE
SPT	STANDARD PENETRATION TEST SAMPLE
▽	GROUNDWATER TABLE

TEST TYPES:

DS	DIRECT SHEAR
MD	MAXIMUM DENSITY
SA	SIEVE ANALYSIS
S&H	SIEVE AND HYDROMETER
EI	EXPANSION INDEX
CN	CONSOLIDATION
CR	CORROSION
AL	ATTERBERG LIMITS
CO	COLLAPSE/SWELL
RV	R-VALUE
-#200	% PASSING # 200 SIEVE

Last Edited: 7/7/2020

Geotechnical Boring Log Borehole HS-3

Date: 6/9/2020	**Drilling Company:** 2R Drilling
Project Name: Royal Vista Golf Course	**Type of Rig:** Track Rig
Project Number: 20080-01	**Drop:** 30" **Hole Diameter:** 8"
Elevation of Top of Hole: ~548' MSL	**Drive Weight:** 140 pounds
Hole Location: See Geotechnical Map	Page 1 of 1

Logged By ARN
Sampled By ARN
Checked By KBC

Elevation (ft)	Depth (ft)	Sample Number	Blow Count	Dry Density (pcf)	Moisture (%)	USCS Symbol	DESCRIPTION	Type of Test
	0						**@0' to 20' Older Artificial Fill (afo):**	
							@0' - Sandy CLAY: olive gray, moist; grass	
545		R-1	9 13 15	111.8	17.4	CL	@2.5' - Sandy CLAY: olive gray, moist, very stiff; mottled coloration; scattered rootlets	
	5	SPT-1	3 3 5		19.2		@5' - Sandy CLAY: tan and gray, very moist, medium stiff	
540		R-2	5 6 8	105.9	20.8	SM	@7.5' - Silty SAND: olive gray, wet, medium dense	
	10	SPT-2	4 2 3		22.5		@10' - Silty SAND: olive gray, wet, loose	
535								
	15	R-3	4 4 15	98.3	25.7	ML	@15' - Sandy SILT: olive gray with red orange, wet, stiff	
530								
	20	SPT-3	50/3"		18.0	SM	**@20' to T.D. Tertiary Puente Formation (Tp):** @20' - Silty SAND: light gray and light red-orange, wet, very dense	
525							Total Depth = 21.5' Groundwater Encountered at Approximately 4' Backfilled with Cuttings on 6/9/2020	
	25							
520								
	30							

LGC Geotechnical, Inc.

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. THE DESCRIPTIONS PROVIDED ARE QUALITATIVE FIELD DESCRIPTIONS AND ARE NOT BASED ON QUANTITATIVE ENGINEERING ANALYSIS.

SAMPLE TYPES:

B	BULK SAMPLE
R	RING SAMPLE (CA Modified Sampler)
G	GRAB SAMPLE
SPT	STANDARD PENETRATION TEST SAMPLE
▽	GROUNDWATER TABLE

TEST TYPES:

DS	DIRECT SHEAR
MD	MAXIMUM DENSITY
SA	SIEVE ANALYSIS
S&H	SIEVE AND HYDROMETER
EI	EXPANSION INDEX
CN	CONSOLIDATION
CR	CORROSION
AL	ATTERBERG LIMITS
CO	COLLAPSE/SWELL
RV	R-VALUE
-#200	% PASSING # 200 SIEVE

Last Edited: 7/7/2020

Geotechnical Boring Log Borehole HS-4

Date: 6/9/2020	**Drilling Company:** 2R Drilling
Project Name: Royal Vista Golf Course	**Type of Rig:** Track Rig
Project Number: 20080-01	**Drop:** 30" **Hole Diameter:** 8"
Elevation of Top of Hole: ~550' MSL	**Drive Weight:** 140 pounds
Hole Location: See Geotechnical Map	Page 1 of 1

Logged By ARN
Sampled By ARN
Checked By KBC

Elevation (ft)	Depth (ft)	Graphic Log	Sample Number	Blow Count	Dry Density (pcf)	Moisture (%)	USCS Symbol	DESCRIPTION	Type of Test
	0	B-1						**@0' to 7.5' Older Artificial Fill (afo):** @0' - Sandy CLAY: dark brown, very moist; grass	
			R-1	3 2 6	104.2	21.0	SC	@2.5' - Clayey SAND: brown, wet, loose; scattered rootlets	-#200, AL, MD
545	5		SPT-1	5 6 10		18.6	ML	@5' - Sandy SILT: dark olive gray, wet, very stiff	
			R-2	15 14 8	106.6	19.3	ML	**@7.5' to T.D. Tertiary Puente Formation (Tp):** @7.5' - Sandy SILT: light gray brown with red orange, wet, stiff	
540	10		SPT-2	6 9 10		28.4		@10' - Sandy SILT: gray and red orange, wet, very stiff	
535	15		R-3	13 14 44	90.4	30.7	MH	@15' - Sandy SILT: light gray with red-orange, wet, hard; well bedded; healed jointing	
								Total Depth = 16.5' Groundwater Encountered at Approximately 2.5' Backfilled with Cuttings on 6/9/2020	
530	20								
525	25								
	30								

LGC Geotechnical, Inc.

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. THE DESCRIPTIONS PROVIDED ARE QUALITATIVE FIELD DESCRIPTIONS AND ARE NOT BASED ON QUANTITATIVE ENGINEERING ANALYSIS.

SAMPLE TYPES:

B	BULK SAMPLE
R	RING SAMPLE (CA Modified Sampler)
G	GRAB SAMPLE
SPT	STANDARD PENETRATION TEST SAMPLE
▽	GROUNDWATER TABLE

TEST TYPES:

DS	DIRECT SHEAR
MD	MAXIMUM DENSITY
SA	SIEVE ANALYSIS
S&H	SIEVE AND HYDROMETER
EI	EXPANSION INDEX
CN	CONSOLIDATION
CR	CORROSION
AL	ATTERBERG LIMITS
CO	COLLAPSE/SWELL
RV	R-VALUE
-#200	% PASSING # 200 SIEVE

Last Edited: 7/7/2020

Geotechnical Boring Log Borehole HS-5

Date: 6/9/2020 | **Drilling Company:** 2R Drilling

Project Name: Royal Vista Golf Course | **Type of Rig:** Track Rig

Project Number: 20080-01 | **Drop:** 30" | **Hole Diameter:** 8"

Elevation of Top of Hole: ~564' MSL | **Drive Weight:** 140 pounds

Hole Location: See Geotechnical Map |

Logged By ARN
Sampled By ARN
Checked By KBC

Elevation (ft)	Depth (ft)	Graphic Log	Sample Number	Blow Count	Dry Density (pcf)	Moisture (%)	USCS Symbol	DESCRIPTION	Type of Test
560	0	B-1	SPT-1	11 35 40		9.8	SM	**@0' to 2.5' Older Artificial Fill (afo):** @0' - Sandy SILT: dark reddish brown, moist; grass **@2.5' to T.D. Tertiary Puente Formation (Tp):** @2.5' - Silty SAND: light brown, moist, very dense	
	5		R-1	43 50/4"	106.7	8.6		@5' - Silty SAND: light brown, moist, very dense	
555			SPT-2	27 50/6"		14.5		@7.5' - Silty SAND: rusty brown, very moist, very dense	
	10		R-2	50/4"				@10' - Silty SAND: rusty brown, moist, very dense	
550	15							Total Depth = 10' Groundwater Not Encountered Backfilled with Cuttings on 6/9/2020	
545	20								
540	25								
535	30								

LGC Geotechnical, Inc.

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. THE DESCRIPTIONS PROVIDED ARE QUALITATIVE FIELD DESCRIPTIONS AND ARE NOT BASED ON QUANTITATIVE ENGINEERING ANALYSIS.

SAMPLE TYPES:

B	BULK SAMPLE
R	RING SAMPLE (CA Modified Sampler)
G	GRAB SAMPLE
SPT	STANDARD PENETRATION TEST SAMPLE
▽	GROUNDWATER TABLE

TEST TYPES:

DS	DIRECT SHEAR
MD	MAXIMUM DENSITY
SA	SIEVE ANALYSIS
S&H	SIEVE AND HYDROMETER
EI	EXPANSION INDEX
CN	CONSOLIDATION
CR	CORROSION
AL	ATTERBERG LIMITS
CO	COLLAPSE/SWELL
RV	R-VALUE
-#200	% PASSING # 200 SIEVE

Last Edited: 7/7/2020

Geotechnical Boring Log Borehole HS-6

Date: 6/9/2020 | **Drilling Company:** 2R Drilling

Project Name: Royal Vista Golf Course | **Type of Rig:** Track Rig

Project Number: 20080-01 | **Drop:** 30" | **Hole Diameter:** 8"

Elevation of Top of Hole: ~601' MSL | **Drive Weight:** 140 pounds

Hole Location: See Geotechnical Map |

Logged By ARN
Sampled By ARN
Checked By KBC

Elevation (ft)	Depth (ft)	Sample Number	Blow Count	Dry Density (pcf)	Moisture (%)	USCS Symbol	DESCRIPTION	Type of Test
600	0	B-1					**@0' to 15' Older Artificial Fill (afo):** @0' - Sandy SILT: dark brown, moist; grass	-#200, CR, EI, MD
		R-1	2 2 3	93.8	26.2	ML	@2.5' - Sandy SILT: gray brown, very moist, soft; scattered rootlets	
595	5	SPT-1	P 1 3		24.0		@5' - Sandy SILT: dark brown, wet, soft	
		R-2	3 4 7	104.1	21.3		@7.5' - Sandy SILT: gray brown, wet, medium stiff; scattered organics/old leaves	
590	10	SPT-2	4 6 9		18.8	CL	@10' - Sandy CLAY: gray brown, very moist to wet, stiff	
585	15	R-3	7 16 29	107.7	18.6	SM	@15' - Silty SAND: blue gray and red-orange, wet, dense	
580	20	SPT-3	38 40 50/5"		21.7		@20' - Silty SAND: tan and red-orange, wet, very dense	
575	25						Total Depth = 21.5' Groundwater Encountered at Approximately 5' Backfilled with Cuttings on 6/9/2020	
	30							

LGC Geotechnical, Inc.

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. THE DESCRIPTIONS PROVIDED ARE QUALITATIVE FIELD DESCRIPTIONS AND ARE NOT BASED ON QUANTITATIVE ENGINEERING ANALYSIS.

SAMPLE TYPES:

B	BULK SAMPLE
R	RING SAMPLE (CA Modified Sampler)
G	GRAB SAMPLE
SPT	STANDARD PENETRATION TEST SAMPLE
▽	GROUNDWATER TABLE

TEST TYPES:

DS	DIRECT SHEAR
MD	MAXIMUM DENSITY
SA	SIEVE ANALYSIS
S&H	SIEVE AND HYDROMETER
EI	EXPANSION INDEX
CN	CONSOLIDATION
CR	CORROSION
AL	ATTERBERG LIMITS
CO	COLLAPSE/SWELL
RV	R-VALUE
-#200	% PASSING # 200 SIEVE

Last Edited: 7/7/2020

Geotechnical Boring Log Borehole HS-7

Date: 6/9/2020 | **Drilling Company:** 2R Drilling

Project Name: Royal Vista Golf Course | **Type of Rig:** Track Rig

Project Number: 20080-01 | **Drop:** 30" | **Hole Diameter:** 8"

Elevation of Top of Hole: ~638' MSL | **Drive Weight:** 140 pounds

Hole Location: See Geotechnical Map |

Logged By ARN
Sampled By ARN
Checked By KBC

Elevation (ft)	Depth (ft)	Sample Number	Blow Count	Dry Density (pcf)	Moisture (%)	USCS Symbol	DESCRIPTION	Type of Test
	0	B-1					**@0' to 25' Older Artificial Fill (afo):** @0' - Sandy SILT: dark gray, moist; grass	
635		SPT-1	3 4 6		15.9	ML	@2.5' - Sandy SILT: dark gray, very moist, stiff	
	5	R-1	12 20 24	117.3	16.4	CL	@5' - CLAY with Sand: dark gray, moist, very stiff	
630		SPT-2	9 12 14		16.6		@7.5' - Sandy CLAY: dark gray, moist, very stiff; abundant rootlets	
	10	R-2	31 31 15	119.3	12.4	SC	@10' - Clayey SAND: brown, very moist, dense; minor orange and yellow mottle	
625								
	15	SPT-3	7 10 12		17.2		@15' - Clayey SAND: blue gray and red-orange, very moist, medium dense	
620								
	20	R-3	16 22 23	104.7	22.0	CL	@20' - Sandy CLAY: blue gray and red orange, very moist, very stiff	
							@22' - harder drilling	
615								
	25	SPT-4	15 35 50/3"		25.1	SM	**@25' to T.D. Tertiary Puente Formation (Tp):** @25' - Silty SAND: blue gray and red-orange, wet, very dense	
610							Total Depth = 26.5' Groundwater Encountered at Approximately 23' Backfilled with Cuttings on 6/9/2020	
	30							

LGC Geotechnical, Inc.

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF THE ACTUAL CONDITIONS ENCOUNTERED. THE DESCRIPTIONS PROVIDED ARE QUALITATIVE FIELD DESCRIPTIONS AND ARE NOT BASED ON QUANTITATIVE ENGINEERING ANALYSIS.

SAMPLE TYPES:

B	BULK SAMPLE
R	RING SAMPLE (CA Modified Sampler)
G	GRAB SAMPLE
SPT	STANDARD PENETRATION TEST SAMPLE
▽	GROUNDWATER TABLE

TEST TYPES:

DS	DIRECT SHEAR
MD	MAXIMUM DENSITY
SA	SIEVE ANALYSIS
S&H	SIEVE AND HYDROMETER
EI	EXPANSION INDEX
CN	CONSOLIDATION
CR	CORROSION
AL	ATTERBERG LIMITS
CO	COLLAPSE/SWELL
RV	R-VALUE
-#200	% PASSING # 200 SIEVE

Last Edited: 7/7/2020

Appendix C
Laboratory Test Results

APPENDIX C

Laboratory Test Results

The laboratory testing program was directed towards providing quantitative data relating to the relevant engineering properties of the soils. Samples considered representative of site conditions were tested in general accordance with American Society for Testing and Materials (ASTM) procedure and/or California Test Methods (CTM), where applicable. The following summary is a brief outline of the test type and a table summarizing the test results.

Moisture and Density Determination Tests: Moisture content (ASTM D2216) and dry density determinations (ASTM D2937) were performed on driven samples obtained from the test borings. The results of these tests are presented in the boring logs. Where applicable, only moisture content was determined from SPT or disturbed samples.

Grain Size Distribution/Fines Content: Representative samples were dried, weighed, and soaked in water until individual soil particles were separated (per ASTM D421) and then washed on a No. 200 sieve (ASTM D1140). Where applicable, the portion retained on the No. 200 sieve was dried and then sieved on a U.S. Standard brass sieve set in accordance with ASTM D6913 (sieve) or ASTM D422 (sieve and hydrometer).

Sample Location	Description	% Passing # 200 Sieve
HS-1 @ 2.5 ft	Silty SAND	41
HS-4 @ 1-5 ft	Clayey SAND	49
HS-6 @ 1-5 ft	Sandy SILT	50

Atterberg Limits: The liquid and plastic limits ("Atterberg Limits") were determined per ASTM D4318 for engineering classification of fine-grained material and presented in the table below. The USCS soil classification indicated in the table below is based on the portion of sample passing the No. 40 sieve and may not necessarily be representative of the entire sample. The plots are provided in this Appendix.

Sample Location	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	USCS Soil Classification
HS-1 @ 10 ft	24	19	5	CL-ML
HS-2 @ 2.5 ft	40	14	26	CL
HS-4 @ 1-5 ft	26	14	12	CL

Laboratory Test Results

Laboratory Compaction: The maximum dry density and optimum moisture content of typical materials were determined in accordance with ASTM D1557. The results of this tests are presented in the table below.

Sample Location	Sample Description	Maximum Dry Density (pcf)	Optimum Moisture Content (%)
HS-4 @ 1-5 ft	Dark Brown Clayey SAND	114.0	9.0
HS-6 @ 1-5 ft	Grayish Dark Brown Sandy SILT	116.0	15.5

Expansion Index: The expansion potential of a selected representative sample was evaluated by the Expansion Index Test per ASTM D4829.

Sample Location	Expansion Index	Expansion Potential*
HS-6 @ 1-5 ft	56	Medium

* Per ASTM D4829

Soluble Sulfates: The soluble sulfate content of a selected sample was determined by standard geochemical methods (CTM 417). The test results are presented in the table below.

Sample Location	Sulfate Content (%)
HS-6 @ 1-5 ft	< 0.05

Chloride Content: Chloride content was tested per CTM 422. The results are presented below.

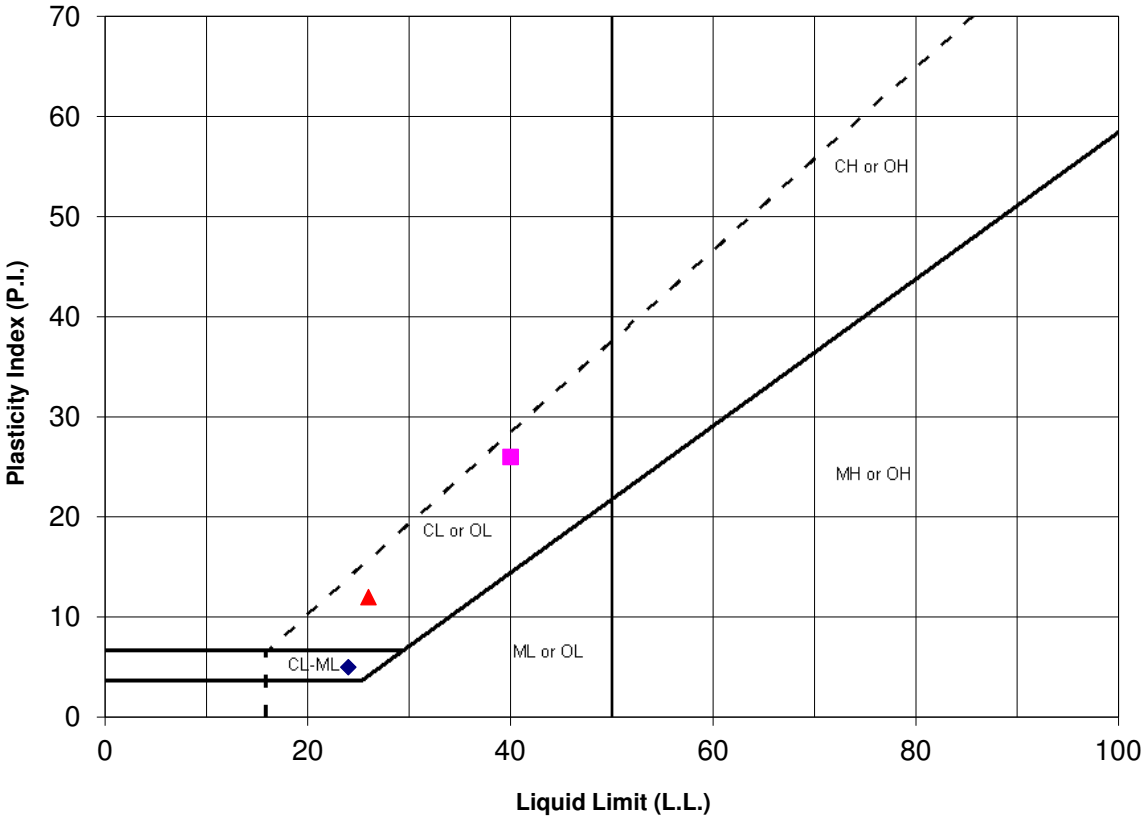
Sample Location	Chloride Content (ppm)
HS-6 @ 1-5 ft	144

Laboratory Test Results

Minimum Resistivity and pH Tests: Minimum resistivity and pH tests were performed in general accordance with CTM 643 and standard geochemical methods. The results are presented in the table below.

Sample Location	pH	Minimum Resistivity (ohms-cm)
HS-6 @ 1-5 ft	8.54	710

PLASTICITY CHART - CLASSIFICATION OF FINE-GRAINED SOILS



Symbol	Location.:	Sample No.:	Depth (ft)	Passing No. 200 Sieve (%)	Liquid Limit (%) LL	Plastic Limit (%) PL	Plasticity Index (%) PI	USCS
◆	HS-1	SPT-2	10'	-	24	19	5	CL-ML
■	HS-2	SPT-1	2.5'	-	40	14	26	CL
▲	HS-4	B-1	1-5'	-	26	14	12	CL

LGC Geotechnical, Inc.

ATTERBERG LIMITS
(ASTM D 4318)

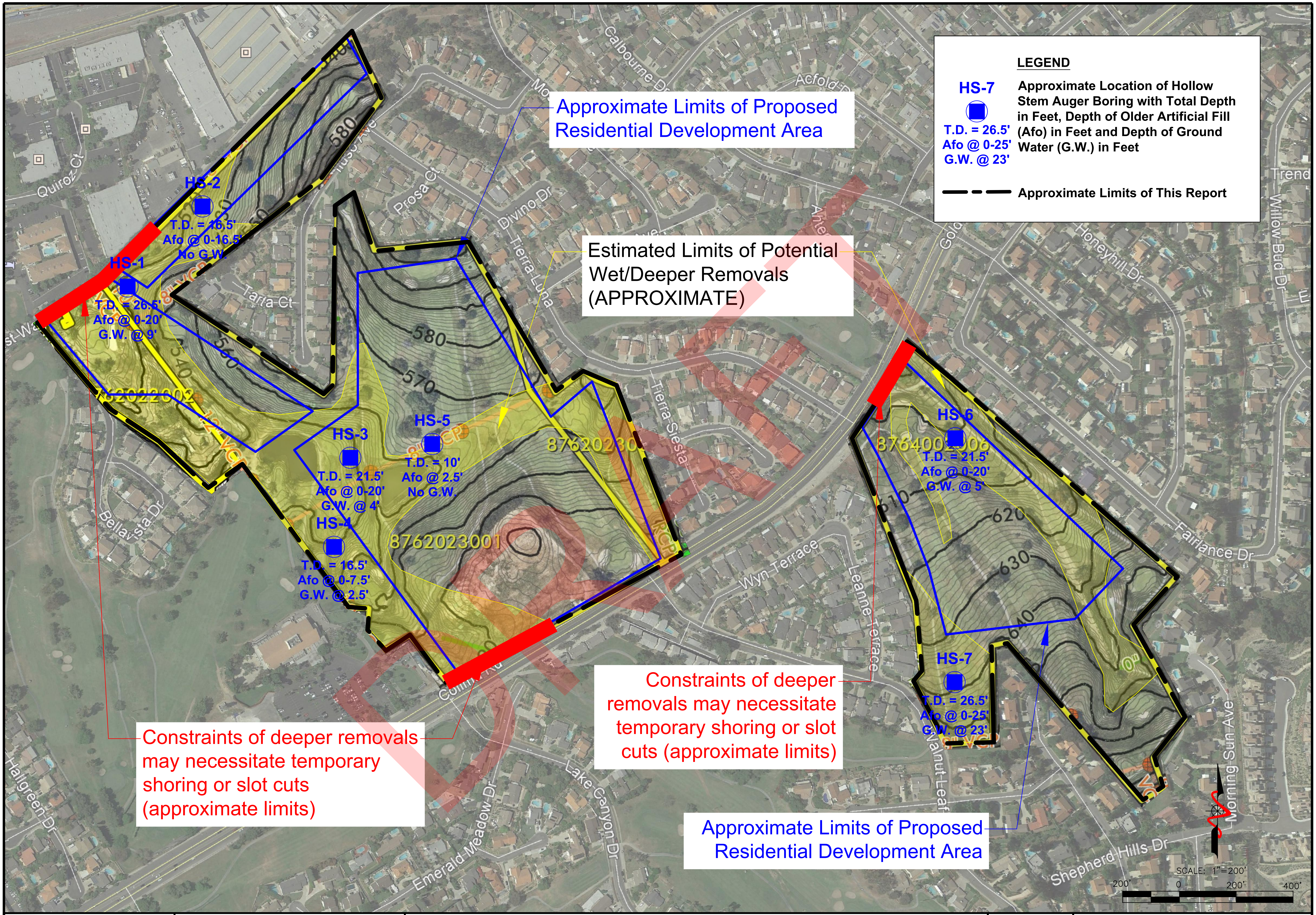
Project Number: 20080-01
Date: Jun-20

Royal Vista Golf Club



LGC Geotechnical, Inc.	LGC Geotechnical, Inc. 131 Calle Iglesia, Ste. 200 San Clemente, CA 92672 TEL (949) 369-6141 FAX (949) 369-6142	**Boring Location Map**	PROJECT NAME: Royal Vista Golf Course PROJECT NO.: 20080-01 ENG. / GEOL.: RLD / KBC SCALE: Approximately 1"=200' DATE: July 2020

SHEET 1 of 1



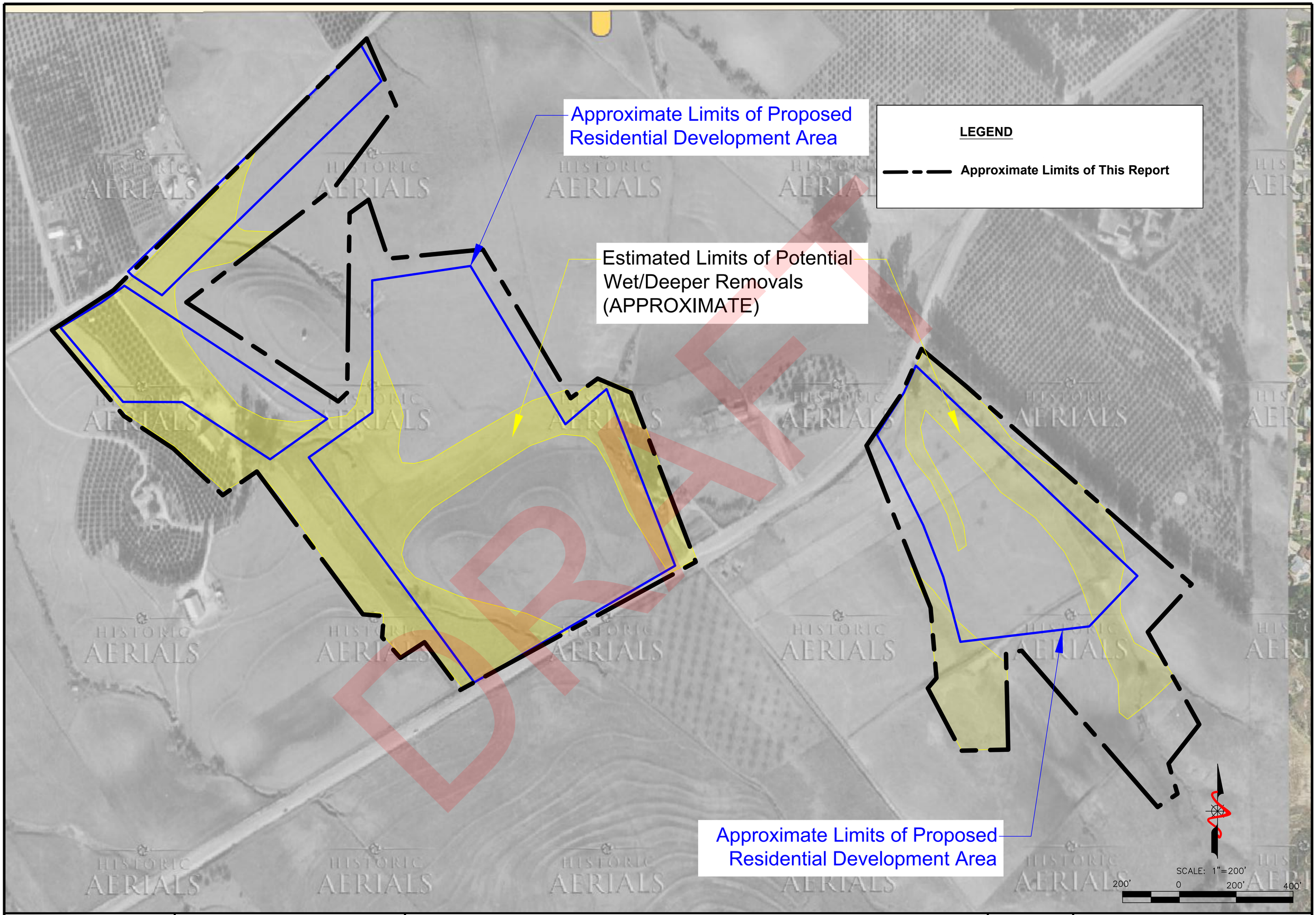
DRAFT

LGC Geotechnical, Inc.
131 Calle Iglesia, Ste. 200
San Clemente, CA 92672
TEL (949) 369-6141 FAX (949) 369-6142

Boring Location Map

PROJECT NAME	Royal Vista Golf Course
PROJECT NO.	20080-01
ENG. / GEOL.	RLD / KBC
SCALE	Approximately 1"=200'
DATE	July 2020

SHEET 1 of 2



LGC Geotechnical, Inc.
131 Calle Iglesia, Ste. 200
San Clemente, CA 92672
TEL (949) 369-6141 FAX (949) 369-6142

1953 Historical Aerial

PROJECT NAME	Royal Vista Golf Course
PROJECT NO.	20080-01
ENG. / GEOL.	RLD / KBC
SCALE	Approximately 1"=200'
DATE	July 2020

SHEET 2 of 2