EXHIBIT A-1

ACIERNO SILVERADO TRAIL VECP

TRACK I - NEW VINEYARD PLANS
(BLOCKS G,H,I)

SYMBOL LEGEND

EXISTING

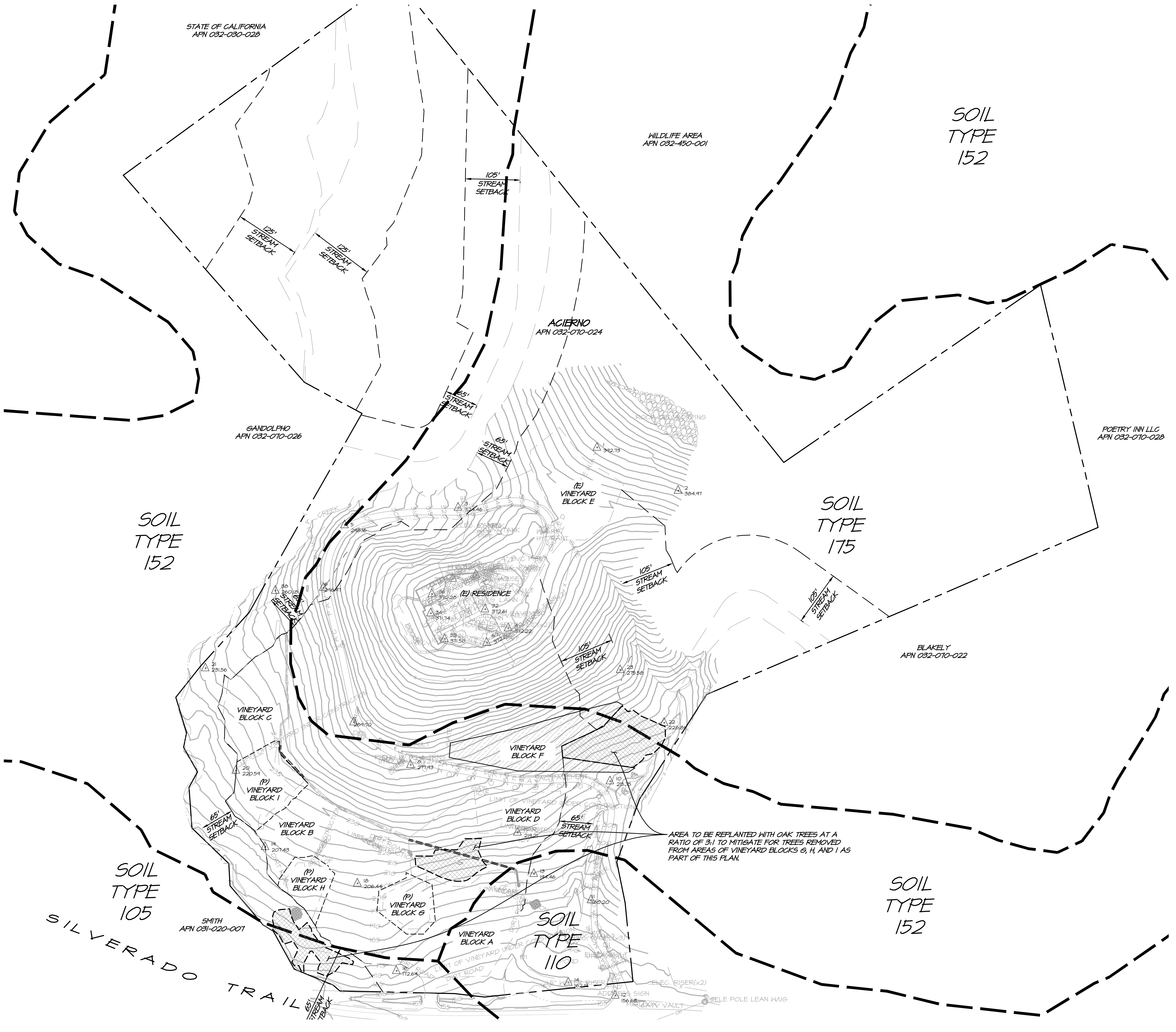
- SURVEY CONTROL STATION
- FOUND
- BRASS PIN
- FLOW LINE
- FENCE
- TREE (AS NOTED)
- WELL
- ADJACENT PROPERTY LINE
- PROPERTY LINE
- STORM DRAIN CULVERT

PROPOSED

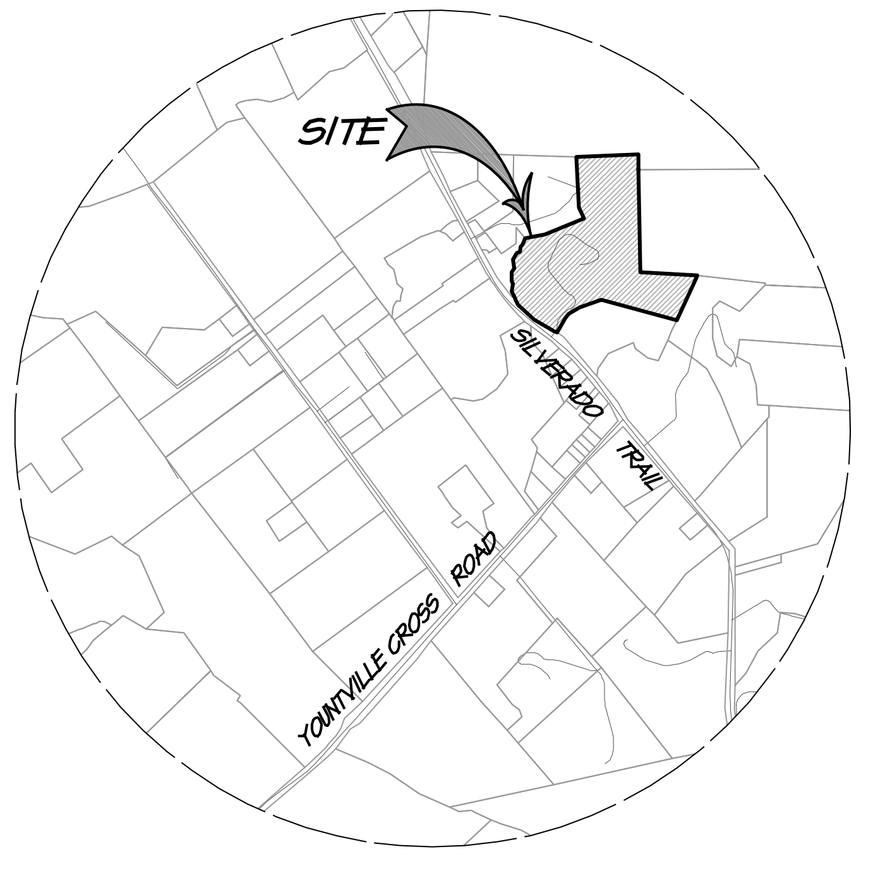
- (P) DISTURBED SURFACE
- (P) NEW VINE ROW
- (P) EDGE OF VINE ROW
- (P) STORM DRAIN CULVERT
- (P) SILT FENCE
- (P) FIBER ROLL
- DI (P) 12" AG DROP INLET
- TOP OF BANK SETBACK
- A SLOPE DETERMINATION LINE
- (P) REVEGETATION AREA
- 8" WO (E) TREE (SIZE AND TYPE)
  - WO - WHITE OAK
  - LO - LIVE OAK
  - EUC - EUCALYPTUS
  - OLV - OLIVE
- FH FIRE HYDRANT
- GATE VALVE
- PIV & FDC

ABBREVIATIONS

BRB	BIO-RETENTION BASIN
BOT	BOTTOM
℄	CENTERLINE
CO	CLEANOUT
DDCV	DOUBLE DETECTOR CHECK VALVE
DW	DOMESTIC WATER
EP	EDGE OF PAVEMENT
EV	ELECTRIC VEHICLE
EX / (E)	EXISTING
(F)	FUTURE
FD	FOUND
FDC	FIRE DEPARTMENT CONNECTION
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FW	FIRE WATER
GB	GRADE BREAK
GV	GATE VALVE
HP	HIGH POINT
HWL	HIGH WATER LEVEL
INV	INVERT
IP	IRON PIPE
IW	IRRIGATION WATER
LF	LINEAL FEET/FOOT
LLA	LOT LINE ADJUSTMENT
LP	LOW POINT
MH	MANHOLE
OC	ON CENTER
OR	OFFICIAL RECORD
P.O.C.	POINT OF CONNECTION
PL	PROPERTY LINE
(P)	PROPOSED NEW WORK
PIV	PRESSURE INDICATOR VALVE
PW	PROCESS WATER
PWW	PROCESS WASTE WATER
R	RADIUS
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
ROW	RIGHT OF WAY
RW	RECYCLED WATER
S	SLOPE (FEET/FOOT)
S.A.D.	SEE ARCHITECTS DRAWINGS
S.E.D.	SEE ELECTRICAL DRAWINGS
S.L.A.D.	SEE LANDSCAPE ARCHITECTS DRAWINGS
S.M.D.	SEE MECHANICAL DRAWINGS
S.P.D.	SEE PLUMBING DRAWINGS
SD	STORM DRAIN
SDCO	STORM DRAIN CLEANOUT
SDFM	STORM DRAIN FORCED MAIN
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
STA	STATION
WM	WATER METER



AREA TO BE REPLANTED WITH OAK TREES AT A RATIO OF 3:1 TO MITIGATE FOR TREES REMOVED FROM AREAS OF VINEYARD BLOCKS G, H, AND I AS PART OF THIS PLAN.



VICINITY MAP

SCALE: 1" = 2000'

PROJECT INFORMATION

CLIENT:	MICHAEL ACIERNO 7070 SILVERADO TRAIL NAPA, CA 94558
SITE ADDRESS:	7070 SILVERADO TRAIL NAPA, CA 94558
CIVIL ENGINEER:	RSA+ 1515 FOURTH STREET NAPA, CA 94559
APN & AREA:	032-070-024 (40.33 ACRES)

SURVEY NOTES

1. TOPOGRAPHY BASED ON A FIELD SURVEY PERFORMED BY RSA+ IN JANUARY 2019, AMENDED SEPTEMBER 2022. CONTOURS ARE SHOWN EVERY ONE FOOT (1'), HIGHLIGHTED EVERY FIVE FEET (5').
2. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) 2011 EPOCH BASED UPON G.P.S. OBSERVATIONS ON NETWORK UTILIZING CONTINUALLY OPERATING REFERENCE STATION (C.O.R.S.) INFORMATION FROM THE CALIFORNIA SPATIAL REFERENCE CENTER (C.S.R.C.).

   VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

3. BOUNDARY SHOWN IS RECORD INFORMATION PER BOOK 27 OF SURVEYS AT PAGE 99, NAPA COUNTY RECORDS.

SHEET INDEX

C1.0 COVER SHEET
C1.1 COUNTY OF NAPA NOTES
C2.0 TREE REMOVAL & REVEGETATION PLAN
C2.1 VEGETATION RETENTION PLAN
C2.2 VINEYARD DEVELOPMENT PLAN
C3.0 DETAILS

HYDROLOGIC SOIL GROUP	
MAP UNIT SYMBOL	MAP UNIT NAME
105	BALE CLAY LOAM, 2 TO 5 PERCENT SLOPES
110	BOOMER-FORWARD-FELTA COMPLEX, 30 TO 50 PERCENT SLOPES
152	HAMBRIGHT ROCK-OUTCROP COMPLEX, 30 TO 75 PERCENT SLOPES
175	ROCK OUTCROP

GRAPHIC SCALE

100 0 100 200

(IN FEET)
1 inch = 100 FT

NO.	DATE	REVISIONS	BY	APPD

RSA+ 1515 FOURTH STREET
NAPA, CALIF. 94559
OFFICE|707|252.3301
+ www.RSAcivil.com +
RSA+ | CONSULTING CIVIL ENGINEERS + SURVEYORS + est. 1980

ACIERNO - TRACK I - NEW VINEYARD
COVER SHEET
NAPA COUNTY CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
NICHOLAS AARON WARNOCK
C85746
Exp. 9-30-24
CIVIL
STATE OF CALIFORNIA

Nicholas A. Warnock

DATE	FEB 23, 2024
DRAWN	LMM/LAC
DESIGNED	NAW
CHECKED	PSW
JOB NO.	4122064.0

SHEET NO.
C1.0
1 OF 6 SHEETS

R:\2022\4122064.0_Acierno_Silverado_Trail_Property\DESIGN\PLANS - CONST\TRACK I - NEW VINEYARD\C1.0-COVER.dwg 02/26/2024 11:44:49AM lcrawford COPYRIGHT Riechers Spence & Assoc.

EXHIBIT A-1

COUNTY OF NAPA GENERAL NOTES

12/2022

1. ALL WORKMANSHIP AND MATERIALS FOR BOTH ON-SITE AND OFF-SITE IMPROVEMENTS SHALL CONFORM TO THE NAPA COUNTY CONSERVATION REGULATIONS, ADOPTED NAPA COUNTY ROAD AND STREET STANDARDS (REVISED JANUARY 1, 2021), AND/OR THE 2018 EDITION OF CALTRANS STANDARD SPECIFICATIONS AND STANDARD PLANS, AND/OR 2019 EDITION OF THE CBC, CFC, CGBS, CMC, CPC AND CRC. THE ON-SITE IMPROVEMENTS SHALL BE INSPECTED BY THE COUNTY OF NAPA PLANNING, BUILDING AND ENVIRONMENTAL (PBES) DEPARTMENT INSPECTOR.
2. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR BEING FAMILIAR WITH THE PROVISIONS AND REQUIREMENTS CONTAINED IN THE COUNTY STANDARD SPECIFICATIONS. CONTRACTOR SHALL HAVE A COPY AVAILABLE AT THE JOB SITE AT ALL TIMES.
3. CONTRACTOR SHALL NOTIFY ALL PUBLIC OR PRIVATE UTILITY COMPANIES 48 HOURS PRIOR TO COMMENCEMENT OF WORK ADJACENT TO EXISTING UTILITY LINE UNLESS ENCROACHMENT PERMIT SPECIFIES OTHERWISE.
4. CONTRACTOR SHALL PROVIDE EMERGENCY TELEPHONE NUMBERS TO THE COUNTY OF NAPA POLICE DEPARTMENT, FIRE DEPARTMENT AND PLANNING, BUILDING AND ENVIRONMENTAL SERVICES DEPARTMENT, AND KEEP THEM INFORMED DAILY REGARDING STREETS UNDER CONSTRUCTION AND DETOURS. DETOURS SHALL NOT BE PERMITTED UNLESS APPROVED IN WRITING BY THE COUNTY OF NAPA PBES DEPARTMENT.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL EXISTING UTILITIES IN THE FIELD. LOCATIONS OF UTILITIES AND UNDERGROUND FACILITIES SHOWN ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY.
6. CONTRACTOR SHALL PROVIDE AND MAINTAIN SUFFICIENT BARRICADES TO PROVIDE FOR THE SAFETY OF THE GENERAL PUBLIC TO THE SATISFACTION OF THE PUBLIC WORKS DIRECTOR.
7. ALL MATERIAL SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
8. ALL UNDERGROUND UTILITY WORK IN THE STREET AREAS SHALL BE COMPLETED PRIOR TO PLACEMENT OF BASE ROCK UNLESS OTHERWISE NOTED.
9. CONTRACTOR SHALL CONFORM TO EXISTING ROADS, SURROUNDING LANDSCAPE AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURBS, GUTTERS, SIDEWALKS, GRADING, ETC., AND TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS OR HAZARDOUS CONDITIONS.
10. CONTRACTOR SHALL COORDINATE ALL NECESSARY UTILITY RELOCATIONS, IF REQUIRED, WITH THE APPROPRIATE UTILITY COMPANIES.
11. CONTRACTOR SHALL CONTACT THE COUNTY OF NAPA PBES DEPARTMENT TO ARRANGE A PRE-PROJECT CONFERENCE FOR THE PURPOSE OF REVIEWING JOB REQUIREMENTS AND COUNTY PROCEDURES.
12. CONTRACTOR SHALL NOTIFY THE COUNTY OF NAPA PBES DEPARTMENT AT LEAST 72 HOURS IN ADVANCE OF THE COMMENCEMENT OF ANY PART OF THE WORK.
13. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNERS AND THE ENGINEER HARMLESS FROM ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THE PROJECT; EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNERS OR THE ENGINEER.
14. SHOULD ANY CONTRACTOR OR SUBCONTRACTOR FIND ANY DEFICIENCIES, ERRORS, CONFLICTS OR OMISSIONS IN THESE PLANS AND SPECIFICATIONS OR SHOULD HE BE IN DOUBT AS TO THEIR MEANING OR INTENT, HE SHALL NOTIFY THE ENGINEER FOR A WRITTEN CLARIFICATION, ADDENDUM, ETC. SHOULD HE FAIL TO DO SO BEFORE SUBMITTING A PROPOSAL HE CANNOT CLAIM ADDITIONAL COMPENSATION FOR WORK REQUIRED TO COMPLETE THE PROJECT.
15. IF THERE IS A CONFLICT BETWEEN WRITTEN AND SCALED DIMENSIONS, NOTIFY THE ENGINEER AND OBTAIN A CLARIFICATION. NO DEVIATIONS OR SUBSTITUTIONS SHALL BE ALLOWED WITHOUT OBTAINING WRITTEN APPROVAL FROM THE ENGINEER.
16. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL SECURE CONSTRUCTION PERMITS FROM COUNTY OF NAPA AND OTHER AGENCIES AS NECESSARY AND PAY ALL FEES THEREFORE.
17. ONE WEEK PRIOR TO ANY EXCAVATION IN EXISTING STREET AREAS, THE CONTRACTOR SHALL CONTACT AND REQUEST PG&E, TELEPHONE AND CABLE COMPANIES, THE COUNTY OF NAPA PBES DEPARTMENT, AND OTHER AGENCIES AS NECESSARY FOR MARKING THE LOCATION OF THEIR RESPECTIVE FACILITIES. COSTS OF REPAIRING ANY INJURIES OR DAMAGES CAUSED BY THE CONTRACTOR SHALL BE BORNE BY THE CONTRACTOR. VARIOUS UNDERGROUND LINES WERE PLOTTED ON THE PLANS FROM THE INFORMATION OBTAINED FROM THE RESPECTIVE UTILITY COMPANIES, THEREFORE, NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CORRECTNESS OF THEIR LOCATION.
18. ALL STATIONS (SHOWN ON PLAN AND PROFILE) ARE TAKEN ALONG CENTERLINE UNLESS OTHERWISE NOTED ON PLAN, AND SHOW MEASUREMENTS IN A HORIZONTAL PLANE.
19. FADED BACKGROUND REPRESENTS EXISTING TOPOGRAPHIC FEATURES.
20. WORK DONE WITHIN THE COUNTY RIGHT-OF-WAY SHALL BE DONE UNDER AN ENCROACHMENT PERMIT ISSUED BY THE COUNTY OF NAPA.

DEMOLITION NOTES

12/2022

1. CONTRACTOR SHALL NOT BEGIN ANY EXCAVATION UNTIL ALL EXISTING UTILITIES HAVE BEEN MARKED IN THE FIELD BY THE APPLICABLE ENTITY RESPONSIBLE FOR THAT PARTICULAR UTILITY. THE CONTRACTOR SHALL NOTIFY EACH APPLICABLE ENTITY AT LEAST 24 HOURS BEFORE STARTING WORK.

DUST CONTROL NOTES

11/2013

WATER AND/OR DUST PALLIATIVES SHALL BE APPLIED IN SUFFICIENT QUANTITIES DURING GRADING AND OTHER GROUND DISTURBING ACTIVITIES ON-SITE TO MINIMIZE THE AMOUNT OF DUST PRODUCED. OUTDOOR CONSTRUCTION ACTIVITIES SHALL NOT OCCUR DURING WINDY PERIODS.

NAPA COUNTY EROSION AND SEDIMENT CONTROL NOTES

01/2019

GENERAL

1. GRADING ON THE SITE SHALL BE LIMITED TO THE AREA SHOWN ON THE PLAN.
2. ALL MOVEMENT OF EARTH SHALL COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE NAPA COUNTY GRADING ORDINANCE, AND THE EROSION AND SEDIMENT CONTROL PLAN (ESCP).
3. CHANGES TO THIS EROSION AND SEDIMENT CONTROL PLAN TO MEET FIELD CONDITIONS SHALL BE MADE ONLY WITH THE APPROVAL OF/OR AT THE DIRECTION OF RSA+.
4. THE CONTRACTOR SHALL INFORM ALL CONSTRUCTION SITE WORKERS ABOUT THE MAJOR PROVISIONS OF THE ESCP AND SEEK THEIR COOPERATION IN AVOIDING THE DISTURBANCE OF THESE CONTROL MEASURES.
5. CONTRACTOR SHALL NOTIFY THE COUNTY OF NAPA PLANNING, BUILDING AND ENVIRONMENTAL SERVICES (PBES) DEPARTMENT (707-253-4417) 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
6. REVIEW AND/OR APPROVAL OF THESE PLANS SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OR HER RESPONSIBILITIES FOR COMPLIANCE WITH THE REQUIREMENTS OF THE CONSTRUCTION SITE RUNOFF CONTROL MANUAL, NOR SHALL IT RELIEVE THE CONTRACTOR FROM ERRORS OR OMISSIONS IN THE APPROVED PLAN.
7. IF THE APPROVED PLAN NEEDS TO BE MODIFIED, ADDITIONAL SEDIMENT AND STORMWATER CONTROL MEASURES MAY BE REQUIRED AS DEEMED NECESSARY BY THE COUNTY OF NAPA PBES DEPARTMENT.
8. CONTRACTOR SHALL PROVIDE THE COUNTY OF NAPA PBES DEPARTMENT AN EROSION AND SEDIMENT CONTROL PLAN AND A SCHEDULE FOR IMPLEMENTATION OF SUCH MEASURES, IF ANY LOT OR STREET GRADING IS TO BE DONE BETWEEN OCTOBER 15 THROUGH APRIL 1. HYDROSEEDING OF ALL GRADED SLOPES SHALL BE COMPLETED BY NOVEMBER 1.
9. TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO OCTOBER 15TH OF EACH YEAR IN WHICH WORK TAKES PLACE.
10. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL REMAIN UNTIL FINAL STABILIZATION HAS BEEN REACHED.
11. THE NARRATIVE SUPPLEMENT SHALL BE CONSIDERED A PERT OF THESE PLANS.
12. SHOULD THE PERMANENT NO TILL COVER CROP NEED TO BE REPLANTED / RENEWED DURING THE LIFT OF THE VINEYARD. COVER CROP RENEWAL EFFORTS SHALL FOLLOW THE COUNTY "PROTOCOL FOR REPLANTING / RENEWAL OF APPROVED NOT-TILLED VINEYARD COVER CROPS" DATED JULY 19, 2004, OR AS AMENDED.

MAINTENANCE NOTES

1. BIODEGRADABLE FIBER ROLL SEDIMENT BARRIERS (NO PLASTIC NETTING) SHALL BE INSTALLED PRIOR TO ANY GRADING ON THE SITE AND WILL REMAIN OPERABLE UNTIL PERMANENT STABILIZATION HAS BEEN ACHIEVED.
2. DURING THE RAINY SEASON, ALL SEDIMENT BARRIERS SHALL BE INSPECTED AND REPAIRED AT THE END OF EACH WORKING DAY AND, IN ADDITION, AFTER EACH STORM.
3. ALL PAVED AREAS SHALL BE KEPT CLEAR OF DIRT, SEDIMENT, AND DEBRIS. THE PROJECT AREA SHALL BE MAINTAINED SO THAT A MINIMUM OF SEDIMENT-LADEN RUNOFF LEAVES THE SITE.

SUPPLEMENTAL EROSION AND SEDIMENT CONTROL NOTES

12/2022

SEEDING SPECIFICATIONS

1. ALL GRADED OR DISTURBED AREAS SHALL BE SEEDED IMMEDIATELY AFTER GRADING IS COMPLETED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:

A. ☑ STANDARD EROSION CONTROL MIX:
USE AT A RATE OF 25 LBS PER ACRE, OR 0.6 LBS. PER 1,000 SF

STANDARD EROSIONS CONTROL MIX:	
BLUE WILDRYE	20%
BLANDO BROME	20%
ZORRO ANNUAL FESCUE	8%
SUB CLOVER	10%
LANA VETCH	12%
ROSE CLOVER	15%
CRIMSON CLOVER	15%

B. ☐ EROSION MIX FOR WINTERIZATION OF HIGH USE AREAS:
(NON-SURFACED ROADS, INCLUDING FARM FIELD ACCESS ROADS)

BARLEY	40 LBS/ACRE
RED OATS	60 LBS/ACRE

C. ☑ EROSIONS CONTROL MIX FOR RIPARIAN AREAS AND ENVIRONMENTALLY SENSITIVE AREAS (ESAs):

I. ☑ SUNNY AREAS:
USE AT A RATE OF 39 LBS PER ACRE, OR 1.0 LBS PER 1,000 SF

MEADOW BARLEY	36%
"MOLATE" FESCUE	38%
CALIFORNIA BROME	26%

II. ☑ SHADY OR PARTIAL SHADE AREAS:
USE AT A RATE OF 39 LBS PER ACRE, OR 1.0 LBS PER 1,000 SF

CALIFORNIA BROME	27%
BLUE WILDRYE	41%
IDAHO FESCUE	32%

III. ☑ NATIVE EROSION CONTROL MIX (MIX FROM PACIFIC COAST SEED. 45 TOTAL LBS/ACRE)*

BROMUS CARINATUS / CALIFORNIA BROME
HORDEUM BRACHYANTHERUM / MEADOW BARLEY
VULPIA MICROSTACHYS / THREE WEEKS FESCUE
TRIFOLIUM WILDENOVII / TOMCAT CLOVER

*REFER TO BIOLOGY REPORT FOR ALTERNATIVE NATIVE EROSION CONTROL MIX

D. ☐ EROSION MIX FOR HIGHER ELEVATION AREAS, (ABOVE 1,000 FEET)
USE AT A RATE OF 39 LBS PER ACRE, OR 1.0 LBS PER 1,000 SF

PERENNIAL RYEGRASS	30%
BLUE WILDRYE	32%
IDAHO FESCUE	38%

2. FERTILIZER USED SHALL BE ONE OF THE FOLLOWING FORMULATIONS OR ITS EQUIVALENT:

☐ NONE: (ENVIRONMENTALLY SENSITIVE AREA)

☑ 16-20-0 APPLIED AT A RATE OF 200 TO 250 LBS PER ACRE, (4.6 TO 5.7 LBS PER 1,000 SF)

☐ 15-15-15 APPLIED AT A RATE OF 300 LBS PER ACRE, (7.0 LBS PER 1,000 SF)

3. MULCH USED SHALL BE ONE OF THE FOLLOWING OR ITS EQUIVALENT:

☑ STRAW MULCH	3,000 LBS/ACRE
☐ WOOD FIBER MULCH	2,000 LBS/ACRE (IF HYDROSEEDED)

4. AREA TO BE SEEDED SHALL BE SCARIFIED TO DEPTH OF 4" TO 8" AND DRESSED TO PROVIDE A REASONABLY SMOOTH FIRM SURFACE.
5. STRAW SHALL BE ANCHORED TO THE SOIL BY A TACKIFIER, EROSION CONTROL BLANKET, CRIMPING, PUNCH ROLLER-TYPE ROLLERS, OR TRACK WALKING.
6. NORTH AMERICAN GREEN SC150 EROSION CONTROL BLANKETS SHALL BE INSTALLED ON ALL SLOPES STEEPER THAN 2:1. JUTE NETTING SHALL BE INSTALLED OVER STRAW MULCH OVER SEED ON ALL SLOPES 2:1 TO 4:1.
7. THE SEEDED AREAS SHALL BE PREPARED, RESEEDED AND MULCHED AS SOON AS POSSIBLE AFTER BEING DAMAGED.

COUNTY OF NAPA GRADING NOTES

12/2022

GENERAL

1. ALL GRADING SHALL CONFORM TO THE 2019 CALIFORNIA BUILDING CODE (CBC) CHAPTERS 17, 18 AND APPENDIX - J AS AMENDED BY ORDINANCE 15.08.080 AND 15.08.090 OF THE COUNTY CODE.
2. ALL PROPERTY CORNERS SHALL BE CLEARLY DELINEATED IN THE FIELD PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION/GRADING.
3. ALL WORK UNDER THIS GRADING PERMIT SHALL BE LIMITED TO WORK WITHIN PROPERTY LINES. ALL WORK WITHIN THE RIGHT-OF-WAY WILL REQUIRE SEPARATE PLANS AND A SEPARATE REVIEW/APPROVAL (PERMIT) FROM THE NAPA COUNTY PUBLIC WORKS, ROADS DIVISION.
4. COMPACTED FILL TO SUPPORT ANY STRUCTURES SHALL COMPLY WITH CBC SECTION 1803.5. PROJECTS WITHOUT A GEOTECHNICAL REPORT SHALL HAVE DETAILED SPECIFICATIONS SATISFYING THE REQUIREMENTS IN SECTION 1803.5 PREPARED BY THE ENGINEER OF RECORD (EOR).
5. THE CONTRACTOR SHALL NOTIFY THE NAPA COUNTY PBES, ENGINEERING DIVISION AT LEAST 48 HOURS IN ADVANCE TO REQUEST FINISH LOT GRADE AND DRAINAGE INSPECTION. THE INSPECTION MUST BE APPROVED PRIOR TO BUILDING PERMIT FINAL INSPECTION FOR EACH LOT.
6. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) TWO DAYS BEFORE DIGGING AT 1-800-227-2600.
7. SITE SHALL BE VISUALLY INSPECTED BY THE CONTRACTOR TO DETERMINE THE EXTENT OF CLEARING, GRUBBING, AND GRADING WORK TO BE DONE.
8. SOIL STRIPPED AS DETAILED IN THE SOILS REPORT SHALL BE STOCKPILED FOR USE IN VINEYARD AREAS. CONTRACTOR SHALL COORDINATE WITH VINEYARD MANAGER.
9. EXCESS SOIL SHALL BE STOCKPILED AT A LOCATION SPECIFIED BY THE PERMITS.
10. TREES THAT ARE REMOVED SHALL ALSO HAVE THEIR STUMPS AND MAJOR ROOT SYSTEMS REMOVED. AFTER A TREE OR A STUMP IS REMOVED THE RESULTING EARTH CAVITY SHALL BE CLEANED OF LARGER ROOTS (2 INCH DIAMETER AND LARGER). SOILS SHOULD BE REMOVED AND DISHED TO PROVIDE ACCESS FOR COMPACTION EQUIPMENT. ALL EARTHWORK, SCARIFICATION, BACKFILL, AND COMPACTION SHALL BE PERFORMED PER THE GEOTECHNICAL REPORT AND GEOTECHNICAL ENGINEER'S REQUIREMENTS.
11. CONTRACTOR SHALL CONDUCT ALL GRADING OPERATIONS IN SUCH A MANNER AS TO PRECLUDE WIND BLOWN DIRT AND DUST AND RELATED DAMAGE TO NEIGHBORING PROPERTIES. SUFFICIENT WATERING TO CONTROL DUST IS REQUIRED AT ALL TIMES. CONTRACTOR SHALL ASSUME LIABILITY FOR CLAIMS RELATED TO WIND BLOWN MATERIAL. IF THE DUST CONTROL IS INADEQUATE AS DETERMINED BY THE NAPA COUNTY PBES, THE CONSTRUCTION WORK SHALL BE TERMINATED UNTIL CORRECTIVE MEASURES ARE TAKEN.
12. ALL EXISTING DRAINAGE COURSES ON THE PROJECT SITE MUST CONTINUE TO FUNCTION. PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS MUST BE USED TO PROTECT ADJOINING PROPERTIES DURING GRADING OPERATIONS.

COUNTY OF NAPA UTILITY NOTES

12/2022

1. STORM DRAIN PIPE OPTIONS WHICH MAY BE USED AT THE CONTRACTOR'S OPTION IN THE NAPA COUNTY RIGHT-OF-WAY ARE AS FOLLOWS:
   - A. CAST-IN-PLACE PIPE (C.I.P.P.) SHALL BE USED ONLY OUTSIDE OF ROADWAY IN CONFORMANCE WITH CALTRANS STANDARD SPECIFICATIONS
   - B. REINFORCED CONCRETE PIPE (R.C.P.) CLASS III PER CALTRANS STANDARD SPECIFICATIONS
   - C. CORRUGATED POLYETHYLENE PIPE SUCH AS ADVANCED DRAINAGE SYSTEM (A.D.S.) N-12 OR APPROVED EQUAL. POLYETHYLENE SHALL NOT BE USED IN SIZES LARGER THAN 36".
2. INSTALLATION OF ASBESTOS CEMENT (A.C.P.) PIPE SHALL NOT BE ALLOWED UNDER ANY CIRCUMSTANCES.

12/2022

PIPE MATERIAL SPECIFICATION	
DOMESTIC WATER	SCH 40 PVC
STORM DRAIN	CORRUGATED POLYETHYLENE PIPE SUCH AS ADVANCED DRAINAGE SYSTEM (A.D.S.) N-12 OR APPROVED EQUAL

NO.	DATE	REVISIONS	BY	APPD

RSA+
1515 FOURTH STREET
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est. 1980

ACIERNO - TRACK I - NEW VINEYARD
COUNTY OF NAPA NOTES
NAPA COUNTY
CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER
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SHEET NO.
C1.1
2 OF 6 SHEETS

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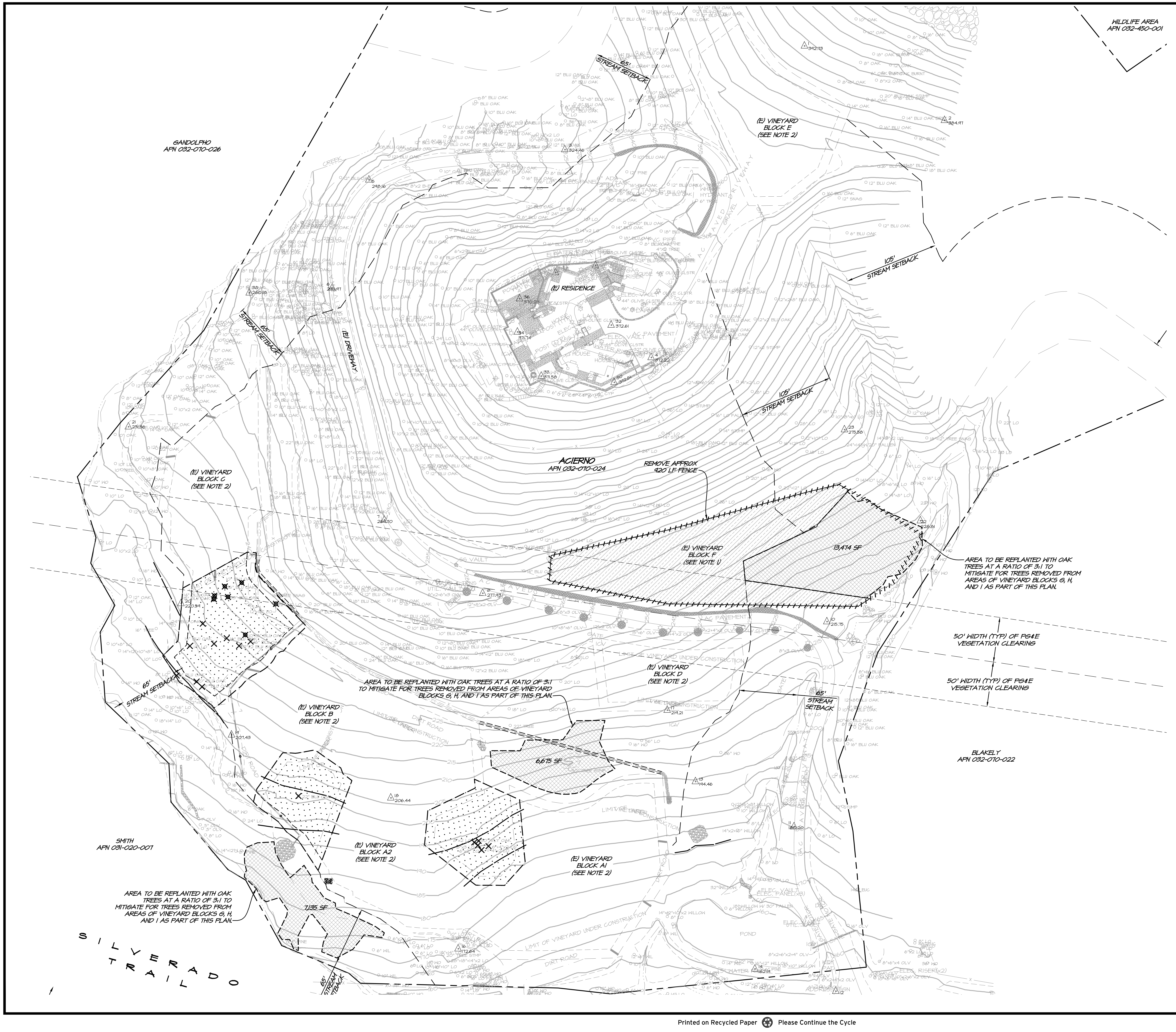

OAK TREE REMOVAL

TREE TYPE	SIZE (IN)	QUANTITY
BLUE OAK	8"	2
BLUE OAK	10"	1
BLUE OAK	14"	1
BLUE OAK	16"	2
BLUE OAK	22"	1
BLUE OAK	24"	1
BLUE OAK	12"x2	1
LIVE OAK	14"	1
LIVE OAK	6"x2"	1
LIVE OAK	8"x2	1
LIVE OAK	8"x3	1
LIVE OAK	6"x4"x2	1
VALLEY OAK	30"	1
TOTAL		15

NOTES

1. EXISTING VINEYARD PLANTED CIRCA 2007 AND 2011 (BY PREVIOUS OWNER, WHICH CONSISTS OF APPROXIMATELY 0.82 ACRES OF VINEYARD) TO BE REMOVED AND RESTORED.
2. VINEYARD BLOCKS A THROUGH E BEING REPLANTED UNDER PERMIT #P22-00412-ECPA.
3. PER PRE-APPLICATION MEETING WITH NAPA COUNTY ON 10-13-2022. TREES REMOVED BY PG&E ARE NOT COUNTED AGAINST PROJECT IN REGARDS TO VEGETATION RETENTION REQUIREMENTS OF REQUIRED TO BE REPLANTED AS PART OF THESE PLANS.

LEGEND

— — —	(P) LIMITS OF VINEYARD
– – – – – –	(P) LIMITS OF PLANTED VINEYARD
— — —	LIMITS OF EXISTING VINEYARD
– – – – – –	LIMITS OF EXISTING PLANTED VINEYARD
· · · · · · · ·	(P) VINE ROW
— — — —	TOP OF BANK SETBACK
—x—	(E) FENCE
—□—□	(P) SILT FENCE
—— ——	FIBER ROLL
—<—	CROSS SLOPE DRAINAGE SWALE
○ 8" WO	(E) TREE (SIZE AND TYPE) BLU OAK - BLUE OAK WO - WHITE OAK LO - LIVE OAK EUC - EUCALYPTUS OLV - OLIVE VLY OAK- VALLEY OAK
×	TREE TO BE REMOVED
⊗	TREE REMOVED PREVIOUSLY BY PG&E
▩	PROPOSED TREE REPLANTING 27,284 SF (0.63 ACRES)
▨	PROPOSED (NON-TREE) RESTORATION AREA TO BE SEEDED WITH "RIPARIAN AREAS AND ENVIRONMENTAL SENSITIVE AREAS SEED MIX" IF WITHIN STREAM SETBACK AND "STANDARD EROSION CONTROL MIX" FOR ALL OTHER AREAS PER SHEET C1.1.

GRAPHIC SCALE
50 0 50 100
(IN FEET)
1 inch = 50 FT

NO.	DATE	REVISIONS	BY	APPD

RSA+
1515 FOURTH STREET
NAPA, CALIF. 94559
OFFICE|707|252.3301
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est. 1980
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ACIERNO - TRACK I - NEW VINEYARD TREE REMOVAL & REVEGETATION PLAN

NAPA COUNTY CALIFORNIA

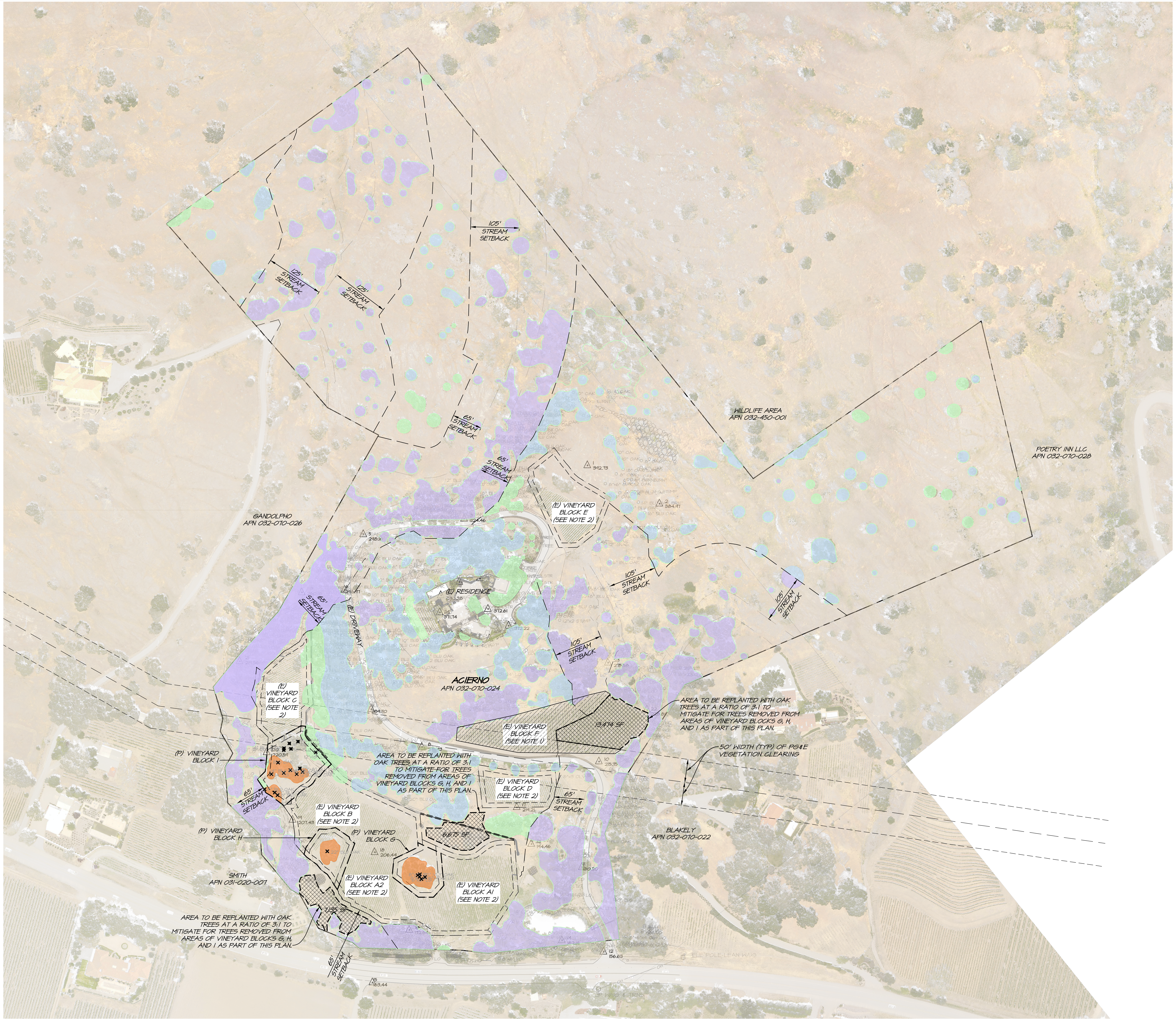
REGISTERED PROFESSIONAL ENGINEER
NICHOLAS AARON WARNOCK
C85746
Exp. 9-30-24
CIVIL
STATE OF CALIFORNIA

Nicholas A. Warnock

DATE	FEB 23, 2024
DRAWN	LMM/LAC
DESIGNED	NAW
CHECKED	PSW
JOB NO.	4122064.0

SHEET NO.
C2.0
3 OF 6 SHEETS

R:\2022\4122064.0_Acierno_Silverado_Trail_Property\DESIGN\PLANS - CONST\TRACK 1 - NEW VINEYARD\C2.0-TREE-RMVL.dwg 02/26/2024 11:42:24AM lcrawford COPYRIGHT Riechers Spence & Assoc.


105' STREAM SETBACK
125' STREAM SETBACK
125' STREAM SETBACK
65' STREAM SETBACK
65' STREAM SETBACK
WILDLIFE AREA
APN 032-450-001
POETRY INN LLC
APN 032-070-028
GANDOLPHO
APN 032-070-026
1 392.73
2 384.97
3 324.46
5 298.18
(E) VINEYARD BLOCK E (SEE NOTE 2)
(E) RESIDENCE
312.61
311.74
312.22
(E) DRIVEWAY
65' STREAM SETBACK
105' STREAM SETBACK
105' STREAM SETBACK
105' STREAM SETBACK
23 215.58
ACIERNO
APN 032-070-024
(E) VINEYARD BLOCK C (SEE NOTE 2)
289.10
(E) VINEYARD BLOCK F (SEE NOTE 1)
13,474 SF
AREA TO BE REPLANTED WITH OAK TREES AT A RATIO OF 3:1 TO MITIGATE FOR TREES REMOVED FROM AREAS OF VINEYARD BLOCKS G, H, AND I AS PART OF THIS PLAN.
50' WIDTH (TYP) OF PG&E VEGETATION CLEARING
(P) VINEYARD BLOCK I
20 220.59
AREA TO BE REPLANTED WITH OAK TREES AT A RATIO OF 3:1 TO MITIGATE FOR TREES REMOVED FROM AREAS OF VINEYARD BLOCKS G, H, AND I AS PART OF THIS PLAN.
10 215.75
(E) VINEYARD BLOCK D (SEE NOTE 2)
17 219.21
65' STREAM SETBACK
65' STREAM SETBACK
19 207.43
(E) VINEYARD BLOCK B (SEE NOTE 2)
(P) VINEYARD BLOCK H
(P) VINEYARD BLOCK G
18 206.44
6,675 SF
13 194.46
BLAKELY
APN 032-070-022
SMITH
APN 031-020-007
(E) VINEYARD BLOCK A2 (SEE NOTE 2)
(E) VINEYARD BLOCK A1 (SEE NOTE 2)
7,135 SF
AREA TO BE REPLANTED WITH OAK TREES AT A RATIO OF 3:1 TO MITIGATE FOR TREES REMOVED FROM AREAS OF VINEYARD BLOCKS G, H, AND I AS PART OF THIS PLAN.
65' STREAM SETBACK
12 156.63
15 153.44

OAK TREE REMOVAL

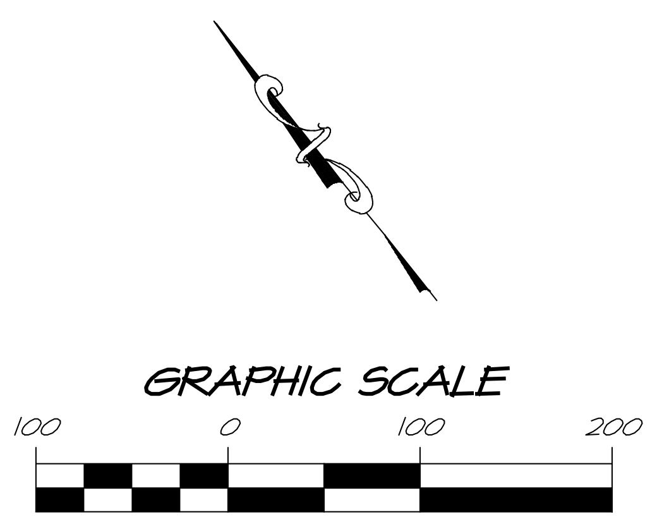
TREE TYPE	SIZE (IN)	QUANTITY
BLUE OAK	8"	2
BLUE OAK	10"	1
BLUE OAK	14"	1
BLUE OAK	16"	2
BLUE OAK	22"	1
BLUE OAK	24"	1
BLUE OAK	12"x2	1
LIVE OAK	14"	1
LIVE OAK	6"x2"	1
LIVE OAK	8"x2	1
LIVE OAK	8"x3	1
LIVE OAK	6"+4"x2	1
VALLEY OAK	30"	1
TOTAL		15

NOTES

1. EXISTING VINEYARD PLANTED CIRCA 2007 AND 2011 (BY PREVIOUS OWNER, WHICH CONSISTS OF APPROXIMATELY 0.82 ACRES OF VINEYARD) TO BE REMOVED AND RESTORED.
2. VINEYARD BLOCKS A THROUGH E BEING REPLANTED UNDER PERMIT #P22-00412-ECPA.
3. PER PRE-APPLICATION MEETING WITH NAPA COUNTY ON 10-13-2022. TREES REMOVED BY PG&E ARE NOT COUNTED AGAINST PROJECT IN REGARDS TO VEGETATION RETENTION REQUIREMENTS OF REQUIRED TO BE REPLANTED AS PART OF THESE PLANS.

LEGEND

🟩	TREE CANOPY ON SLOPES <30% EXISTING TREE CANOPY = 46,379 SF (1.06 ACRES) PROPOSED TREE CANOPY REMOVAL = 9,021 SF (0.21 ACRES) PROPOSED TREE CANOPY TO BE RETAINED = 80.5%
🟦	TREE CANOPY ON SLOPES <30% AND <50% EXISTING TREE CANOPY = 116,539 SF (2.67 ACRES) PROPOSED TREE CANOPY REMOVAL = 0 SF (0 ACRES) PROPOSED TREE CANOPY TO BE RETAINED = 100%
🟪	TREE CANOPY ON SLOPES >50% OR WITHIN STREAM SETBACKS EXISTING TREE CANOPY = 244,546 SF (5.61 ACRES) PROPOSED TREE CANOPY REMOVAL = 0 SF (0 ACRES) PROPOSED TREE CANOPY TO BE RETAINED = 100%
▩	PROPOSED TREE REPLANTING 27,284 SF (0.63 ACRES)
▨	PROPOSED (NON-TREE) RESTORATION AREA TO BE SEEDED WITH "RIPARIAN AREAS AND ENVIRONMENTAL SENSITIVE AREAS SEED MIX" IF WITHIN STREAM SETBACK AND "STANDARD EROSION CONTROL MIX" FOR ALL OTHER AREAS PER SHEET C1.1.



GRAPHIC SCALE

(IN FEET)
1 inch = 100 FT

NO.	DATE	REVISIONS	BY	APPD

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ACIERNO - TRACK I - NEW VINEYARD
VEGETATION RETENTION PLAN
NAPA COUNTY CALIFORNIA

NICHOLAS AARON WARNOCK
C85746
Exp. 9-30-24

Nicholas A. Warnock

DATE	FEB 23, 2024
DRAWN	LMM/LAC
DESIGNED	NAW
CHECKED	PSW
JOB NO.	4122064.0

SHEET NO.
C2.1
4 OF 6 SHEETS

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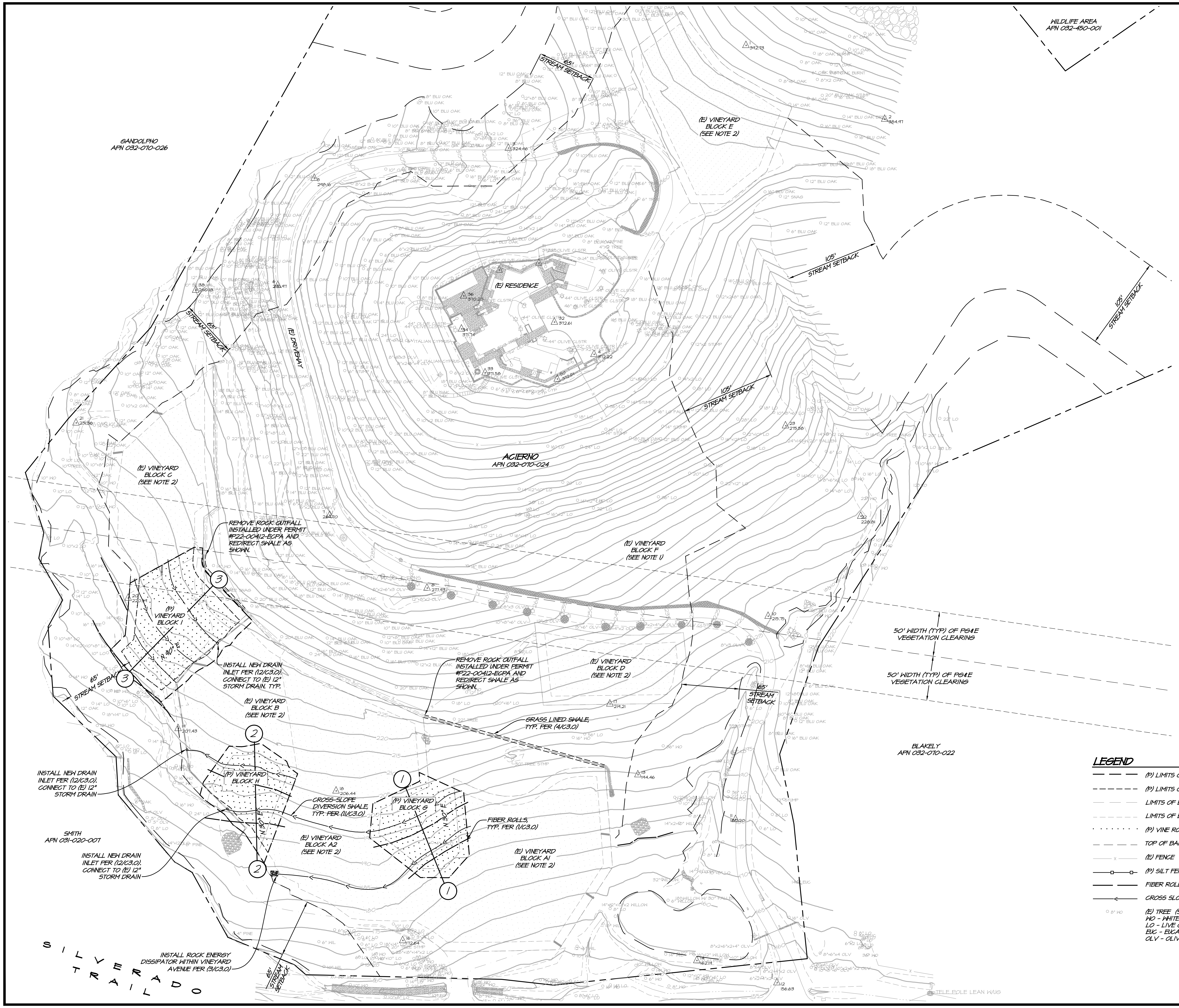
WILDLIFE AREA
APN 032-450-001
GANDOLPHO
APN 032-070-026
(E) VINEYARD
BLOCK E
(SEE NOTE 2)
65' STREAM SETBACK
105' STREAM SETBACK
(E) RESIDENCE
(E) DRIVEWAY
ACIERNO
APN 032-070-024
(E) VINEYARD
BLOCK C
(SEE NOTE 2)
(E) VINEYARD
BLOCK F
(SEE NOTE 1)
REMOVE ROCK OUTFALL INSTALLED UNDER PERMIT #P22-00412-ECPA AND REDIRECT SHALE AS SHOWN.
(P) VINEYARD
BLOCK I
INSTALL NEW DRAIN INLET PER (12/C3.0). CONNECT TO (E) 12" STORM DRAIN, TYP.
(E) VINEYARD
BLOCK B
(SEE NOTE 2)
REMOVE ROCK OUTFALL INSTALLED UNDER PERMIT #P22-00412-ECPA AND REDIRECT SHALE AS SHOWN.
(E) VINEYARD
BLOCK D
(SEE NOTE 2)
50' WIDTH (TYP) OF PG&E VEGETATION CLEARING
50' WIDTH (TYP) OF PG&E VEGETATION CLEARING
65' STREAM SETBACK
GRASS LINED SWALE, TYP. PER (4/C3.0)
BLAKELY
APN 032-070-022
INSTALL NEW DRAIN INLET PER (12/C3.0). CONNECT TO (E) 12" STORM DRAIN
(P) VINEYARD
BLOCK H
CROSS-SLOPE DIVERSION SWALE, TYP. PER (11/C3.0)
(P) VINEYARD
BLOCK G
FIBER ROLLS, TYP. PER (1/C3.0)
SMITH
APN 031-020-007
(E) VINEYARD
BLOCK A2
(SEE NOTE 2)
(E) VINEYARD
BLOCK A1
(SEE NOTE 2)
INSTALL NEW DRAIN INLET PER (12/C3.0). CONNECT TO (E) 12" STORM DRAIN
INSTALL ROCK ENERGY DISSIPATOR WITHIN VINEYARD AVENUE PER (9/C3.0)
SILVERADO TRAIL
1
2
3
N 30° W
N 30° E
N 90° E
TELE POLE LEAN W/G

EXISTING VINEYARD BLOCK INFORMATION

(P22-00412-ECPA)

DISTURBED		PLANTED	APPROX VINE COUNT	VINE ROW ORIENTATION
A	1.66 ACRES	1.34 ACRES	3,648	N 30° E
B	0.40 ACRES	0.31 ACRES	843	N 30° E
C	0.46 ACRES	0.34 ACRES	925	N 90° E
D	0.30 ACRES	0.20 ACRES	544	N 30° E
E	0.51 ACRES	0.38 ACRES	1,025	N 80° E
TOTAL:	3.33 ACRES	2.57 ACRES	6,985	

PROPOSED VINEYARD BLOCK INFORMATION

DISTURBED		PLANTED	APPROX VINE COUNT	VINE ROW ORIENTATION
F	0.82 ACRES TO BE REMOVED			
G	0.22 ACRES	0.21 ACRES	465	N 30° W
H	0.19 ACRES	0.16 ACRES	354	N 30° E
I	0.32 ACRES	0.26 ACRES	570	N 90° E
TOTAL:	0.73 ACRES	0.63 ACRES	1,389	

SLOPE DETERMINATION

SLOPE SECTION	LENGTH	SLOPE
1 - 1	116'	25.0%
2 - 2	133'	20.3%
3 - 3	135'	23.1%
AVERAGE SLOPE		23.0%

MAXIMUM DISTANCE BETWEEN WATERBREAKS

ESTIMATED U.S. EQUIVALENT MEASURE ROAD OR HAZARD RATING TRAIL GRADIENT (IN PERCENT)

	10% OR LESS	11% - 25%	26% - 50%	> 50%
EXTREME	100 FEET	75 FEET	50 FEET	50 FEET
HIGH	150 FEET	100 FEET	75 FEET	50 FEET
MODERATE	200 FEET	150 FEET	100 FEET	75 FEET
LOW	300 FEET	200 FEET	150 FEET	100 FEET

NOTES

1. EXISTING VINEYARD PLANTED CIRCA 2007 AND 2011 (BY PREVIOUS OWNER, WHICH CONSISTS OF APPROXIMATELY 0.82 ACRES OF VINEYARD) TO BE REMOVED AND RESTORED.
2. VINEYARD BLOCKS A THROUGH E BEING REPLANTED UNDER PERMIT #P22-00412-ECPA.
3. PER PRE-APPLICATION MEETING WITH NAPA COUNTY ON 10-13-2022. TREES REMOVED BY PG&E ARE NOT COUNTED AGAINST PROJECT IN REGARDS TO VEGETATION RETENTION REQUIREMENTS OF REQUIRED TO BE REPLANTED AS PART OF THESE PLANS.

LEGEND

— —	(P) LIMITS OF VINEYARD
- - - -	(P) LIMITS OF PLANTED VINEYARD
— —	LIMITS OF EXISTING VINEYARD
- - - -	LIMITS OF EXISTING PLANTED VINEYARD
· · · · ·	(P) VINE ROW
— —	TOP OF BANK SETBACK
—x—	(E) FENCE
—□—	(P) SILT FENCE
——	FIBER ROLL
—<—	CROSS SLOPE DRAINAGE SWALE
○ 8" HO	(E) TREE (SIZE AND TYPE) WO - WHITE OAK LO - LIVE OAK EUC - EUCALYPTUS OLV - OLIVE

GRAPHIC SCALE

50 0 50 100

(IN FEET)
1 inch = 50 FT

NO.	DATE	REVISIONS	BY	APPD

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ACIERNO - TRACK 1 - NEW VINEYARD
VINEYARD DEVELOPMENT PLAN

NAPA COUNTY CALIFORNIA

NICHOLAS AARON WARNOCK
C85746
Exp. 9-30-24

Nicholas A. Warnock

DATE	FEB 23, 2024
DRAWN	LMM/LAC
DESIGNED	NAW
CHECKED	PSW
JOB NO.	4122064.0

SHEET NO.
C2.2
5 OF 6 SHEETS

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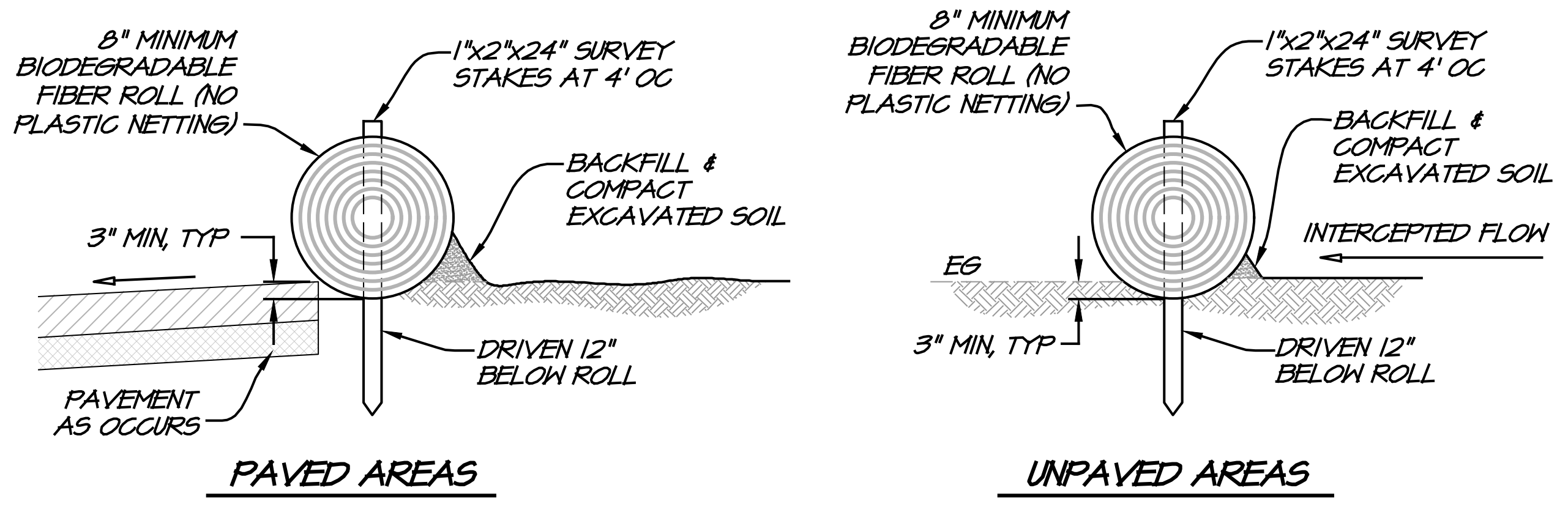

8" MINIMUM BIODEGRADABLE FIBER ROLL (NO PLASTIC NETTING)
1"x2"x24" SURVEY STAKES AT 4' OC
BACKFILL & COMPACT EXCAVATED SOIL
3" MIN, TYP
PAVEMENT AS OCCURS
DRIVEN 12" BELOW ROLL
EG
INTERCEPTED FLOW

PAVED AREAS

UNPAVED AREAS

GENERAL NOTES

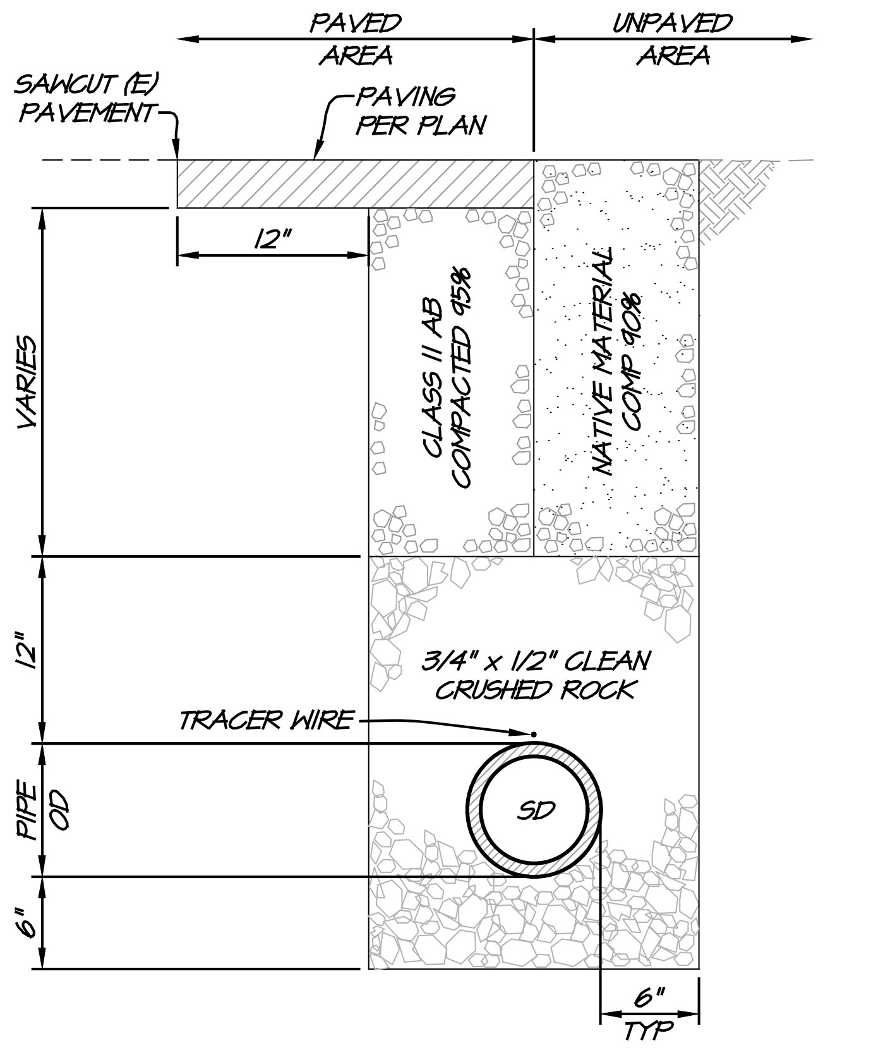
1. ALL FIBER ROLLS SHALL BE BIODEGRADABLE (NO PLASTIC NETTING).
2. PLACE FIBER ROLLS INTO THE KEY TRENCH AND STAKE ON BOTH SIDES OF THE ROLL WITHIN 2 FEET OF EACH END AND THEN 4 FEET WITH 1" x 2" STAKES OR AS SUGGESTED BY MANUFACTURER.
3. LOCATE FIBER ROLLS ON LEVEL CONTOURS SPACED AS FOLLOWS:
   - A. SLOPE INCLINATION OF 4:1 (H:V) OR LESS: FIBER ROLLS SHOULD BE PLACED AT A MAXIMUM INTERVAL OF 20'.
   - B. SLOPE INCLINATION BETWEEN 4:1 AND 2:1 (H:V): FIBER ROLLS SHOULD BE PLACED AT A MAXIMUM INTERVAL OF 15 FT.
   - C. SLOPE INCLINATION 2:1 (H:V) OR GREATER: FIBER ROLLS SHOULD BE PLACED AT A MAXIMUM INTERVAL OF 10 FT.
3. TURN THE ENDS OF THE FIBER ROLL UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE ROLL.
4. IF MORE THAN ONE FIBER ROLL IS PLACED IN A ROW, THE ROLLS SHALL BE OVER LAPPED, NOT ABUTTED.
5. FIBER ROLLS SHALL BE REMOVED AFTER COMPLETION OF PROJECT.

PAVED INSTALLATION NOTES

1. INSTALL FIBER ROLL AT BACK OF SIDEWALK OR BACK OF CURB ONCE PADS ARE CONSTRUCTED.
2. MAINTAIN FIBER ROLL AT BACK OF CURB FOR SEPARATED SIDEWALK.

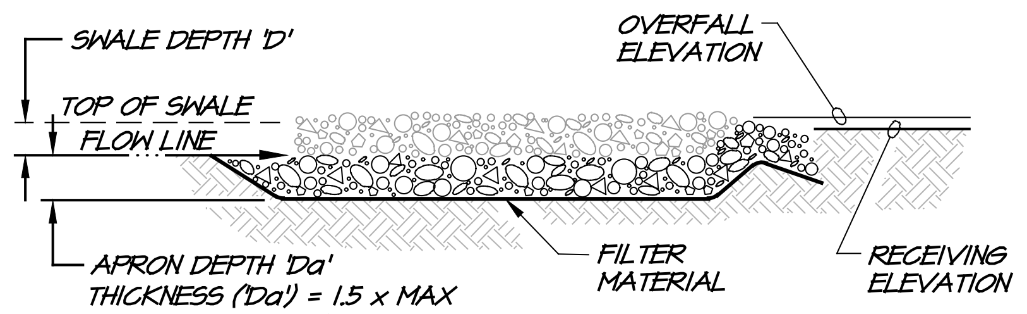
① FIBER ROLL SEDIMENT BARRIER

RSA EC0000-04 PER CASQA BMP SE-5 NOT TO SCALE

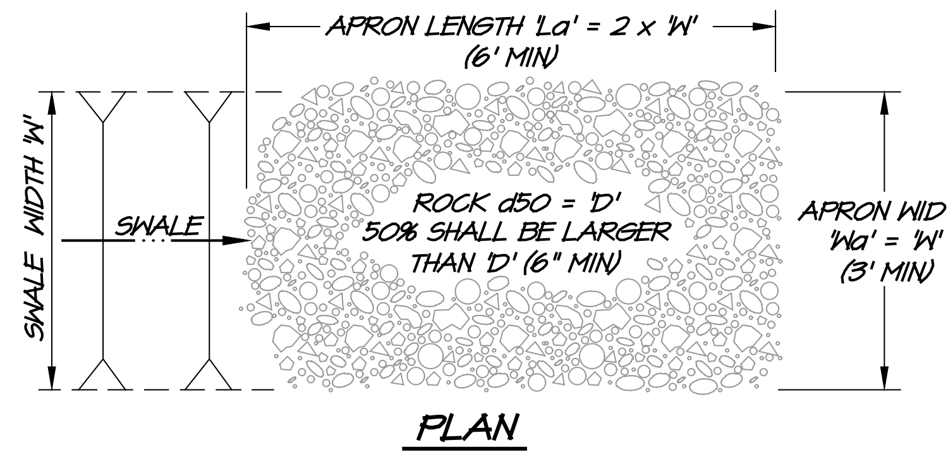


② STORM DRAIN TRENCH DETAIL

RSA SD0000-08 NOT TO SCALE



SECTION


APRON LENGTH 'La' = 2 x 'W' (6' MIN)
SWALE WIDTH 'W'
SWALE
ROCK d50 = 'D' 50% SHALL BE LARGER THAN 'D' (6" MIN)
APRON WIDTH 'Wa' = 'W' (3' MIN)

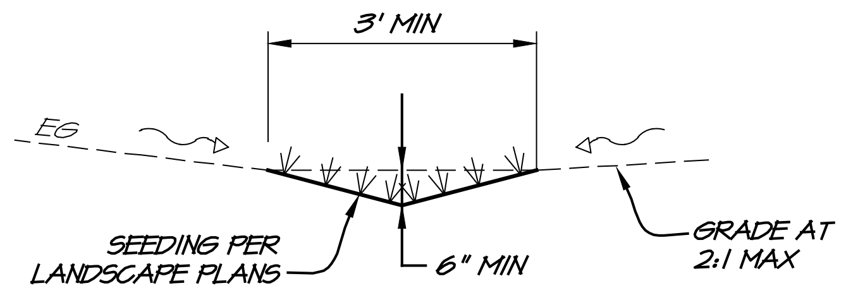
PLAN

NOTES

1. 'La' = LENGTH OF APRON. DISTANCE 'La' SHALL BE OF SUFFICIENT LENGTH TO DISSIPATE ENERGY.
2. APRON SHALL BE SET AT A ZERO GRADE AND ALIGNED STRAIGHT.
3. FILTER MATERIAL SHALL BE FILTER FABRIC OR 6" THICK (MIN) GRADED GRAVEL LAYER.

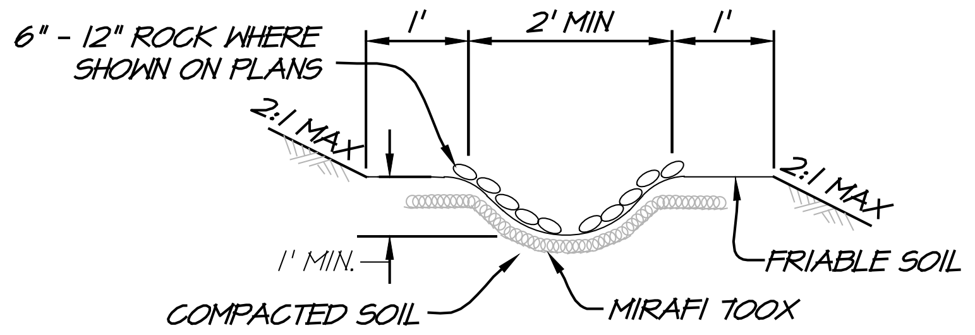
③ ENERGY DISSIPATER SWALE

RSA SD0000-25 NOT TO SCALE



④ GRASS LINED SWALE

RSA EC0000-11 NOT TO SCALE

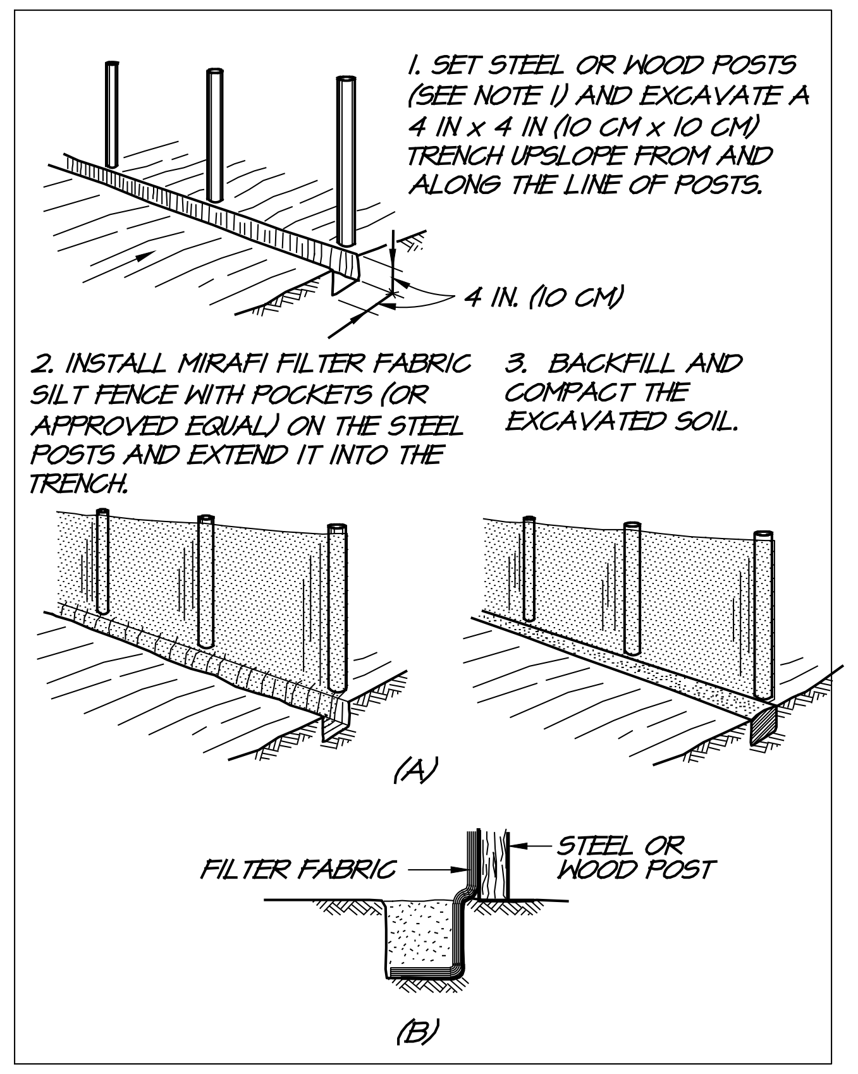


NOTES FOR INSTALLATION

1. SHAPE AND DRESS SURFACE IN ACCORDANCE WITH THE PLANS. ALL VEGETATION MUST BE REMOVED. SURFACES MUST BE COMPACTED TO 90%.
2. THE SURFACE MUST BE SMOOTH AND FREE OF RUTS AND ROCKS.

⑤ ROCK AND FABRIC LINED SWALE

RSA EC0000-09 NOT TO SCALE



1. SET STEEL OR WOOD POSTS (SEE NOTE 1) AND EXCAVATE A 4 IN x 4 IN (10 CM x 10 CM) TRENCH UPSLOPE FROM AND ALONG THE LINE OF POSTS.

2. INSTALL MIRAFI FILTER FABRIC SILT FENCE WITH POCKETS (OR APPROVED EQUAL) ON THE STEEL POSTS AND EXTEND IT INTO THE TRENCH.

3. BACKFILL AND COMPACT THE EXCAVATED SOIL.

CONSTRUCTION OF A SILT FENCE:
(A) INSTALLATION SEQUENCE
(B) EXTENSION OF FABRIC INTO THE TRENCH

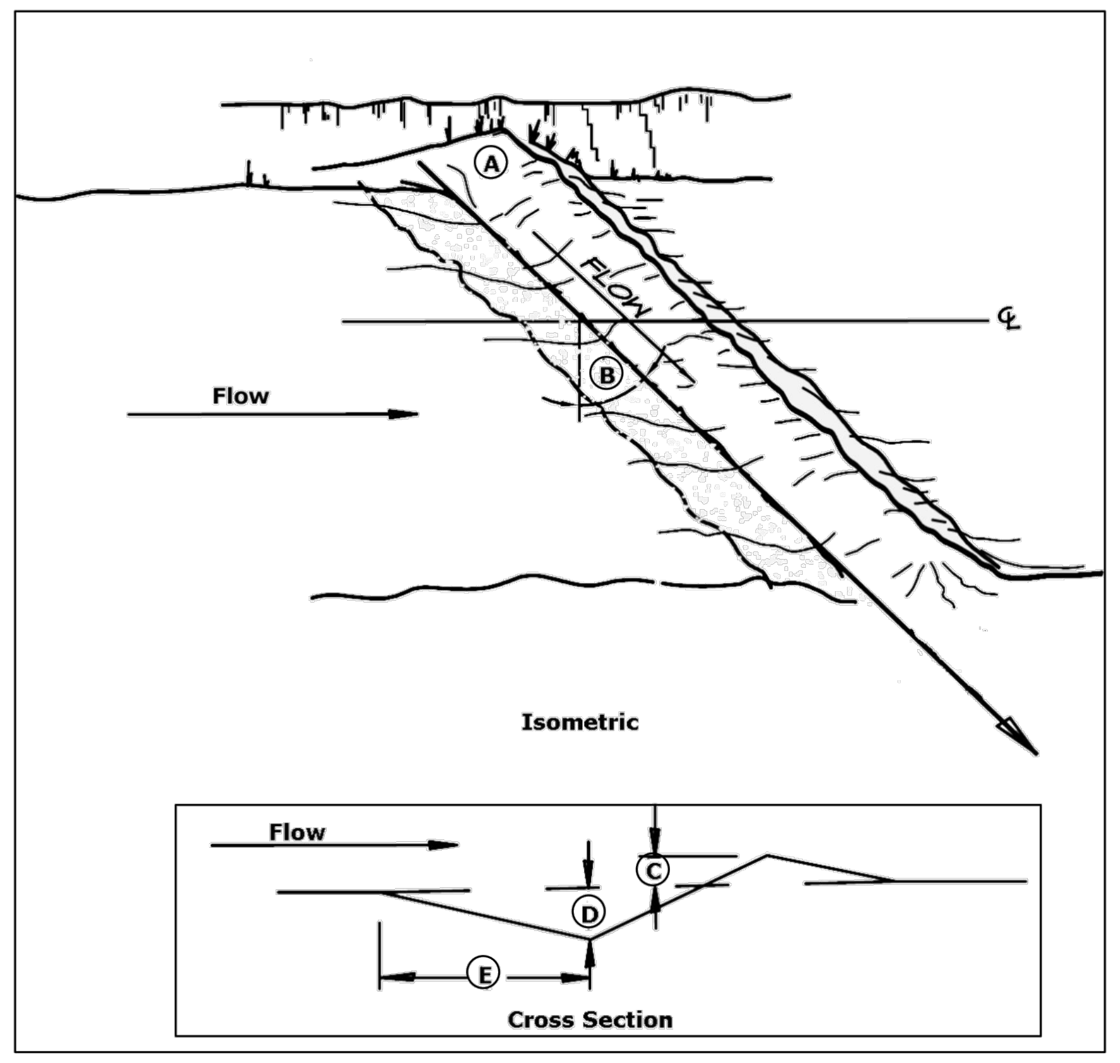
INSTALLATION OF SILT FENCE SEDIMENT BARRIER

1. LAY OUT A SUITABLE FENCE LINE AND SET POSTS ALONG IT. ON SLOPES, ALIGN THE FENCE ALONG THE CONTOUR AS CLOSELY AS POSSIBLE. IN SMALL SWALES, CURVE THE FENCE LINE UPSTREAM AT THE SIDES TO DIRECT THE FLOW TOWARD THE MIDDLE OF THE FENCE. THE SIDES SHOULD BE HIGHER THAN THE CENTER AS ILLUSTRATED AT RIGHT. SPACE POSTS ON 6' CENTERS AND DRIVE THEM A MINIMUM OF 12 IN (30 CM) INTO THE GROUND. POSTS FOR SILT FENCES CAN BE EITHER 1 1/2" (3.8 CM) MIN DIA. HARD WOOD OR 1.33 LB/FT (1.97 KG/M) STEEL WITH A MINIMUM LENGTH OF 5 FT (1.5 M). STEEL POSTS MUST HAVE PROJECTIONS FOR FASTENING WIRE TO THEM.
2. FASTEN THE FILTER FABRIC TO THE UPHILL SIDE OF THE FENCE POSTS, AND EXTEND TO 6 TO 8 IN (15 TO 20 CM) INTO THE TRENCH. THE HEIGHT OF THE FENCE SHOULD NOT EXCEED 36 IN (0.9 M). DO NOT STAPLE FABRIC ONTO TREES. CUT THE FILTER FABRIC FROM A CONTINUOUS ROLL TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, SPLICE THE FILTER CLOTH AT A SUPPORT POST, WITH A MINIMUM 6 IN (15 CM) OVERLAP, AND SECURELY FASTEN BOTH ENDS TO THE POST.
3. BACKFILL THE TRENCH OVER THE TOE OF THE FABRIC AND COMPACT THE SOIL.
4. PREFABRICATED SILT FENCE WITH POSTS MAY BE USED AS AN ALTERNATE TO SETTING STEEL OR WOOD POSTS.

⑥ SILT FENCE SEDIMENT BARRIER

RSA EC0000-13 NOT TO SCALE

Typical Road Surface Drainage by Waterbars



Waterbar installation:

1. Waterbar construction for seasonal use roads. Specifications are average and may be adjusted to conditions.
2. Ⓐ tie-in cut and berm to cutbank.
3. Ⓑ angle waterbar 30^0-40^0 downgrade with road centerline.
4. Ⓒ berm height should be 4”-6” above the roadbed.
5. Ⓓ cut depth should be 4”-6” into roadbed.
6. Ⓔ approach should be 3’-4’ length.

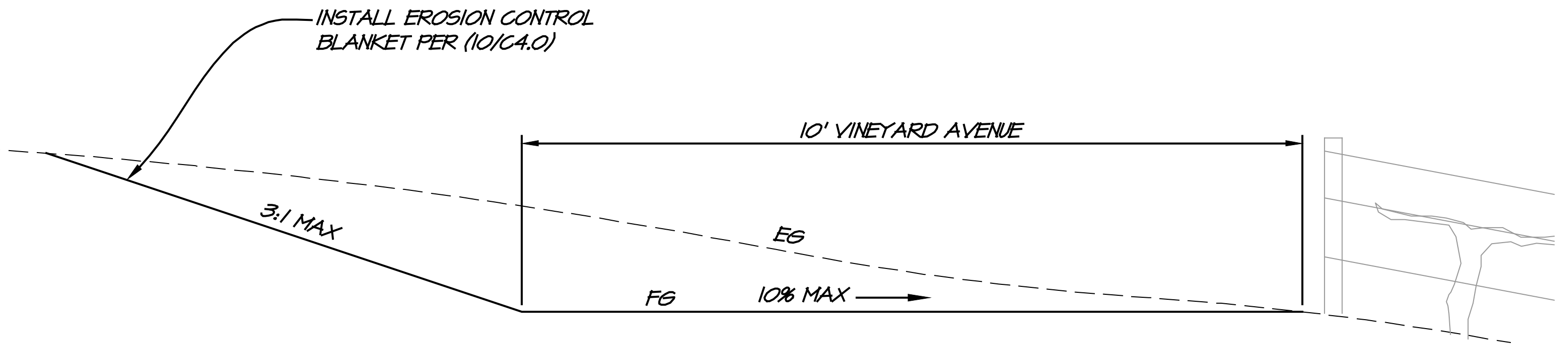
Waterbar spacing: 1,000/slope gradient
Example: @20% slope waterbar spacing =1,000/20=***50 feet***

Napa County Resource Conservation District
www.naparcd.org / 1303 Jefferson St, Suite 500B, Napa Ca, 94559 / (707)252-4188

Typical Drawing #21

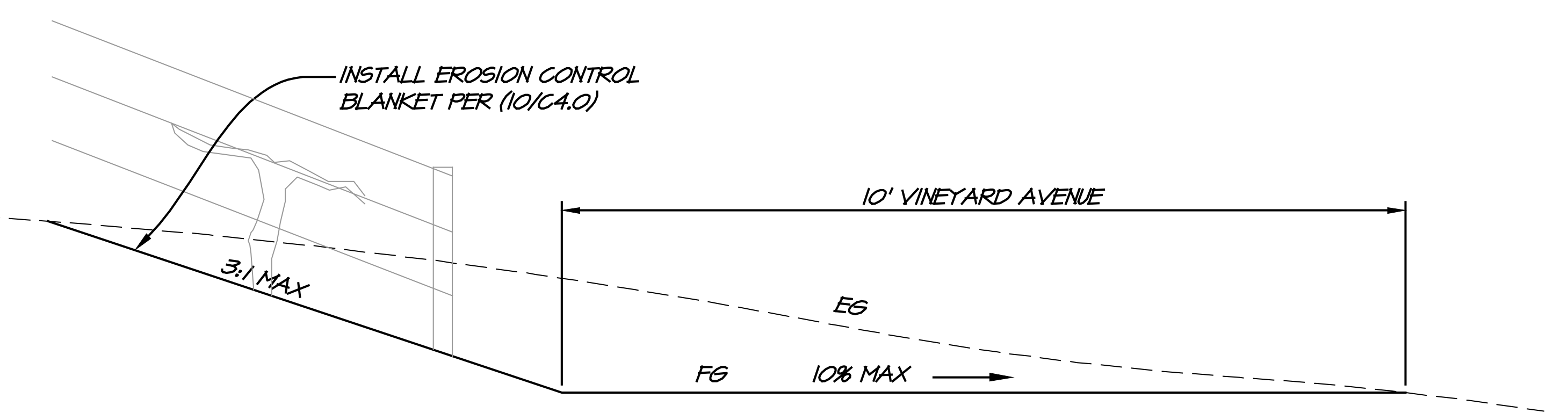
⑦ WATERBAR

NOT TO SCALE



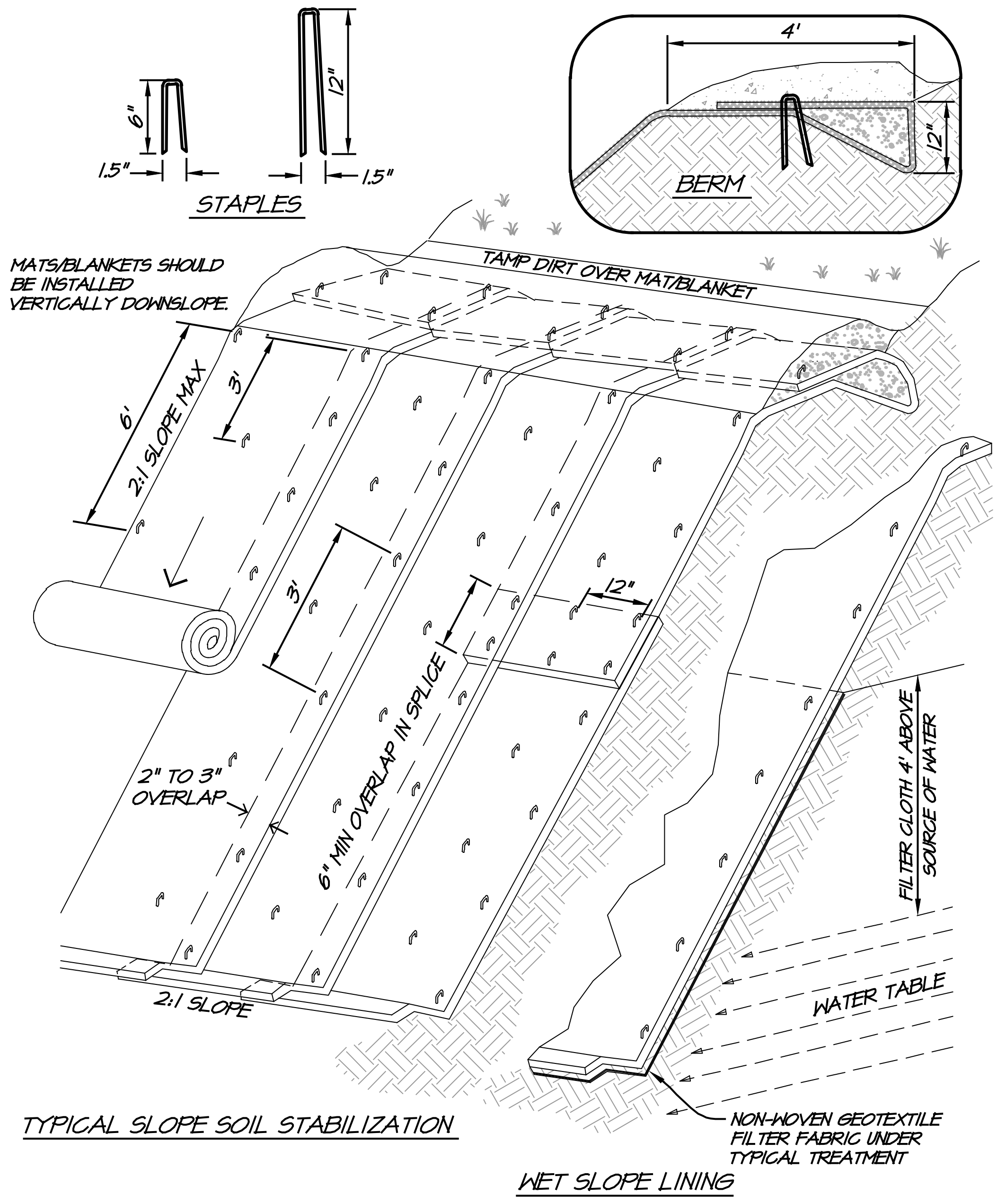
⑧ OUTSLOPED UPPER VINEYARD AVENUE

NOT TO SCALE



⑨ OUTSLOPED LOWER VINEYARD AVENUE DETAIL

NOT TO SCALE

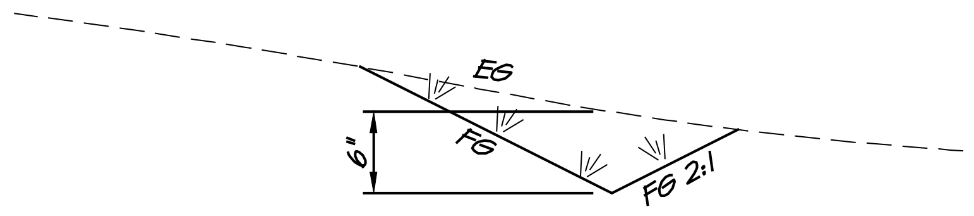

6"
1.5"
12"
1.5"
STAPLES
4'
12"
BERM
MATS/BLANKETS SHOULD BE INSTALLED VERTICALLY DOWNSLOPE.
TAMP DIRT OVER MAT/BLANKET
6'
2:1 SLOPE MAX
3'
3'
12"
2" TO 3" OVERLAP
6" MIN OVERLAP IN SPLICE
2:1 SLOPE
FILTER CLOTH 4' ABOVE SOURCE OF WATER
WATER TABLE
NON-WOVEN GEOTEXTILE FILTER FABRIC UNDER TYPICAL TREATMENT
TYPICAL SLOPE SOIL STABILIZATION
WET SLOPE LINING

NOTES

1. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
2. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.

⑩ EROSION BLANKETS & TURF REINFORCEMENT MATS

RSA EC0000-14 PER CASQA BMP EC-7 NOT TO SCALE

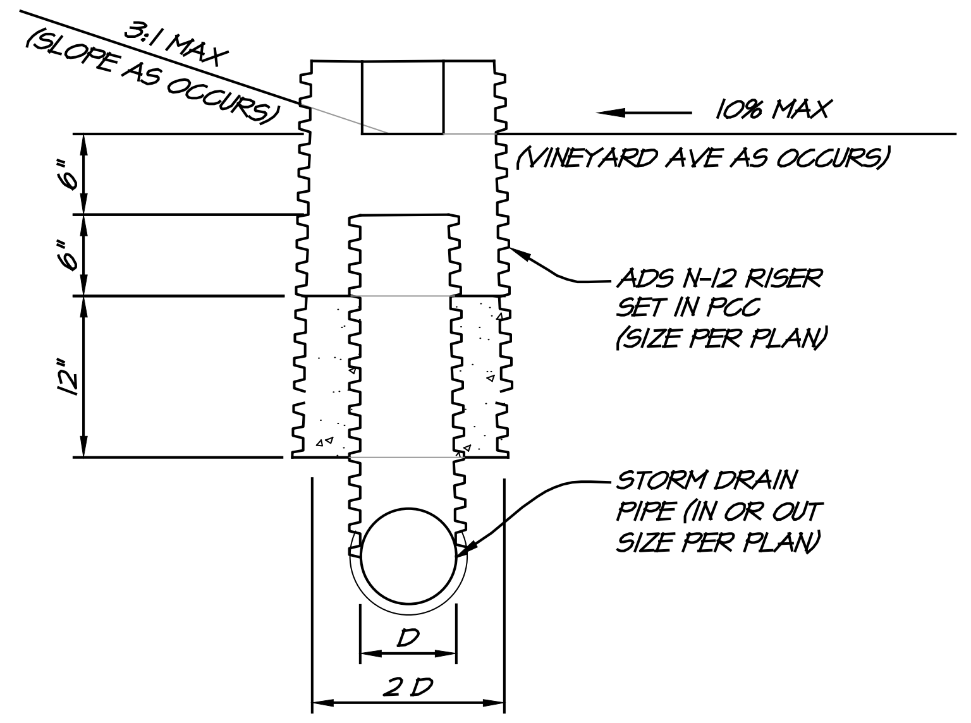


NOTES

1. CROSS-SLOPE DIVERSIONS SHALL BE INSTALLED WITH A MAXIMUM LONGITUDINAL SLOPE OF 2% AND BE GRASS-LINED.

⑪ CROSS-SLOPE DIVERSION SWALE DETAIL

NOT TO SCALE


3:1 MAX (SLOPE AS OCCURS)
10% MAX
(VINEYARD AVE AS OCCURS)
6"
6"
12"
ADS N-12 RISER SET IN PCC (SIZE PER PLAN)
STORM DRAIN PIPE (IN OR OUT SIZE PER PLAN)
D
2 D

⑫ DRAIN INLET DETAIL

NOT TO SCALE

NO.	DATE	REVISIONS	BY	APPD

RSA⁺
1515 FOURTH STREET
NAPA, CALIF. 94559
OFFICE|707|252.3301
+ www.RSAcivil.com +
RSA⁺ | CONSULTING CIVIL ENGINEERS + SURVEYORS + est. 1980

ACIERNO - TRACK I - NEW VINEYARD
DETAILS
NAPA COUNTY CALIFORNIA

NICHOLAS AARON WARNOCK
C85746
Exp. 9-30-24
CIVIL

DATE	FEB 23, 2024
DRAWN	LMM/LAC
DESIGNED	NAW
CHECKED	PSW
JOB NO.	4122064.0

SHEET NO.
C3.0
6 OF 6 SHEETS

R:\2022\4122064.0_Acierno_Silverado_Trail_Property\DESIGN\PLANS - CONST\TRACK 1 - NEW VINEYARD\C3.0-DETAILS.dwg 02/26/2024 11:45:26AM lcrawford COPYRIGHT Riechers Spence & Assoc.