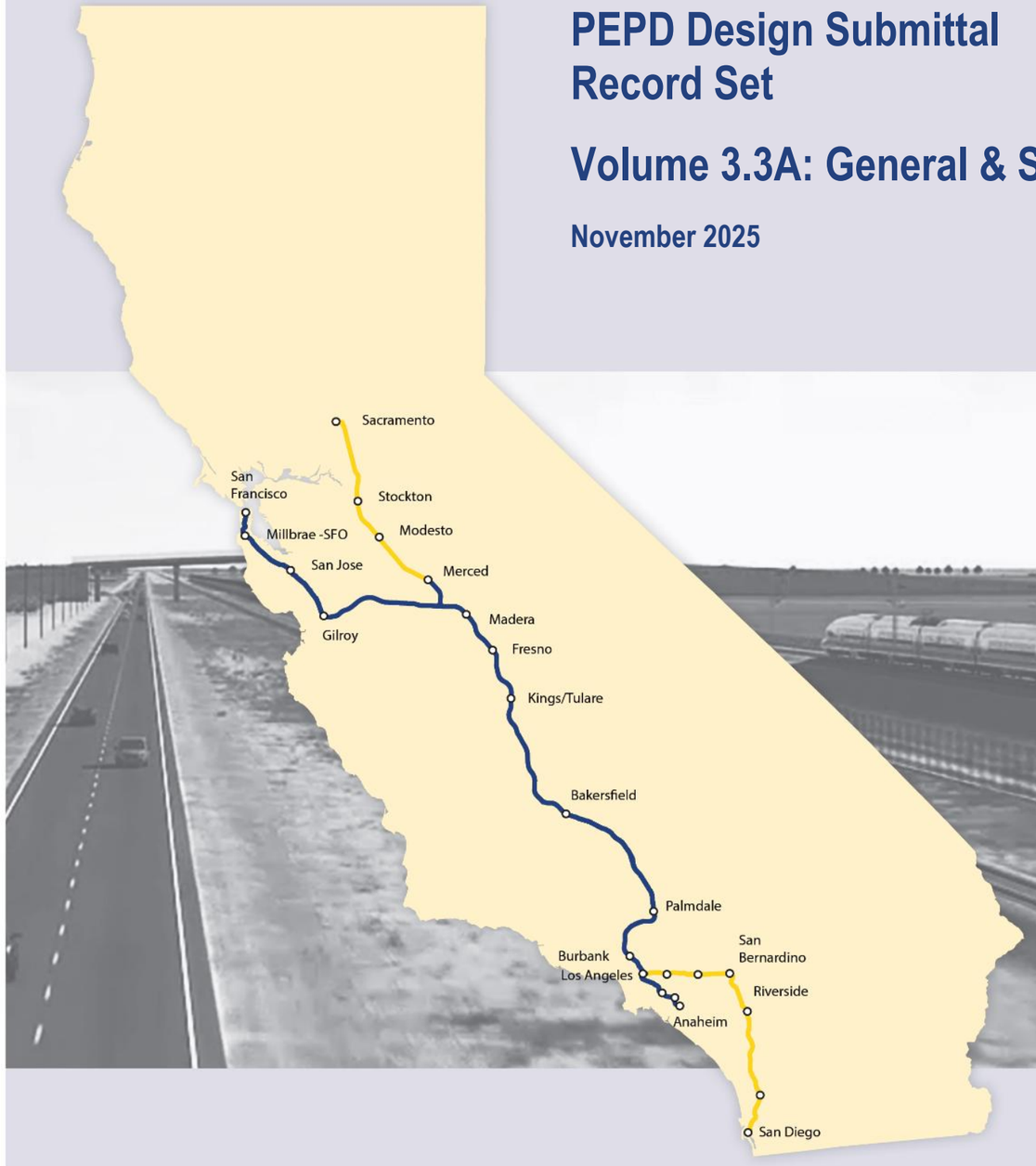
California High-Speed Rail Authority

Los Angeles to Anaheim Project Section



PEPD Design Submittal
Record Set

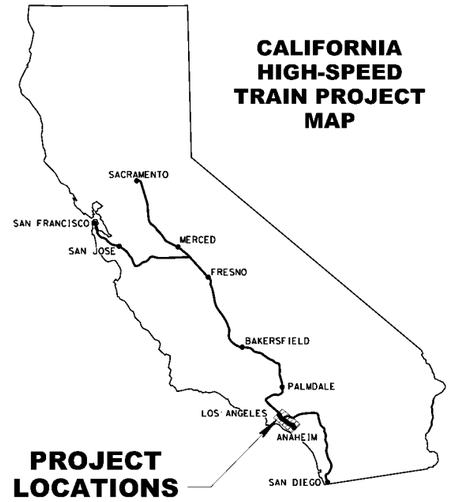
Volume 3.3A: General & State College Grade Separations (by OCTA)

November 2025

CALIFORNIA High-Speed Rail Authority

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being or have been carried out by the State of California pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated July 23, 2019, and executed by the Federal Railroad Administration and the State of California.

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY



PRELIMINARY ENGINEERING FOR PROJECT DEFINITION (PEPD)

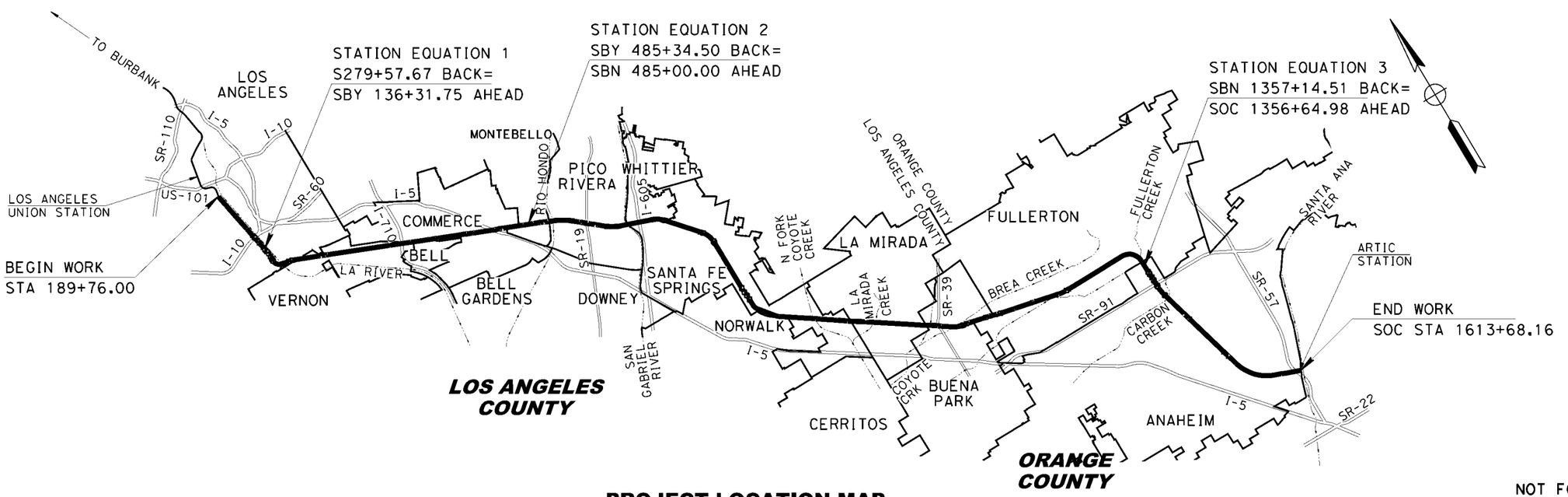
CALIFORNIA HIGH-SPEED TRAIN PROJECT

TONGVA SUBDIVISION

LOS ANGELES TO ANAHEIM

VOLUME 3.3A

GENERAL & STATE COLLEGE GRADE SEPARATIONS (BY OCTA)



PROJECT LOCATION MAP

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY: M. MAMAWAL
DRAWN BY: M. MAMAWAL
CHECKED BY: J. SWANSON
IN CHARGE: J. SWANSON
DATE: 08/29/25

PEPD SUBMITTAL FOR INTERNAL USE ONLY

NOT FOR CONSTRUCTION

stv

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
RECORD SET
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
PROJECT LOCATION MAP

CONTRACT NO. HSR06-0005
DRAWING NO. GE-A03A1
SCALE NO SCALE
SHEET NO.

$PLOT$

PEPD INDEX OF VOLUMES

VOLUME NO.	CONTENT
VOLUME 3.1	GENERAL
	TRACK ALIGNMENT
	RIGHT-OF-WAY IMPACT
VOLUME 3.2	GENERAL
	AERIAL STRUCTURES
	BRACED TRENCH
	RETAINING WALLS
VOLUME 3.3	GENERAL
	GRADE SEPARATIONS
VOLUME 3.3A	GENERAL
	STATE COLLEGE GRADE SEPARATION (BY OCTA)
VOLUME 3.4	GENERAL
	UTILITIES
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	TRACTION POWER FACILITY SITE
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VOLUME NO.	CONTENT
VOLUME 3.6	15TH ST LIGHT MAINTENANCE FACILITY III & STATIONS (NON-PREFERRED OPTIONS)
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	UTILITIES
VOLUME 3.7	NOT USED
VOLUME 3.8	GENERAL
	LINK UNION STATION (LINK US) BY LA METRO

NOT FOR CONSTRUCTION
FOR INTERNAL USE ONLY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY M. MAMAWAL
DRAWN BY M. MAMAWAL
CHECKED BY J. SWANSON
IN CHARGE J. SWANSON
DATE 08/29/25

PEPD SUBMITTAL FOR INTERNAL USE ONLY

NOT FOR CONSTRUCTION

stv

CALIFORNIA HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
LOS ANGELES TO ANAHEIM
DRAFT-FINAL
PRELIMINARY ENGINEERING FOR PROJECT DEFINITION
INDEX OF VOLUMES

CONTRACT NO. HSR06-0005
DRAWING NO. GE-A03A2
SCALE AS SHOWN
SHEET NO.

$PLOT$

SHEET INDEX

SHEET NO.	PLAN NO.	DESCRIPTION	CITY PLAN NO.
	G-1	TITLE PLAN	X-X
	G-2	ABBREVIATIONS AND NOTES	X-X
	G-3	CONSTRUCTION NOTES	X-X
	RE-1 TO RE-6	REMOVAL & DISPOSITION	X-X
	R-1 TO R-8	ROADWAY TYPICAL SECTIONS	X-X
	R-9 TO R-15	ROADWAY LAYOUTS	X-X
	R-16 TO R-18	ROADWAY PROFILES	X-X
	ROW-1 TO ROW-2	RIGHT OF WAY NEEDS	X-X
	SD-1 TO SD-2	DRAINAGE	X-X
	SS-1 TO SS-7	SIGNING AND STRIPING	X-X
	TS-1 TO TS-15	TRAFFIC SIGNALS	X-X
	SL-1 TO SL-2	STREET LIGHTING	X-X
	SC-1 TO SC-17	STAGE CONSTRUCTION	X-X
	UE-1 TO UE-6	EXISTING UTILITIES	X-X
	UC-1 TO UC-4	UTILITY CONFLICTS	X-X
	S-0 TO S-6	SEWER RELOCATIONS	X-X
	W-0 TO W-8	WATER RELOCATIONS	X-X
	RW-0 TO RW-21	RETAINING WALLS	X-X
	B-0 TO B-9	BRIDGE STRUCTURE	X-X
	RR-1 TO RR-34	RAIL	X-X
	L-0 TO L-7	LANDSCAPING	X-X
	A-0 TO A-6	AESTHETICS	X-X
	EE-0 TO EE-5, ES-0 TO ES-7	ELECTRICAL	X-X
	SEPARATE COVER	PUMP STATION	X-X
	SEPARATE COVER	OCSD SEWER RELOCATION	X-X

UTILITY CONTACT LIST

UTILITY	CONTACT	PHONE/E-MAIL
CITY OF ANAHEIM ELECTRICAL DEPARTMENT	ROD YONG	(714)765-4523
CITY OF ANAHEIM WATER DEPARTMENT	SARA MATHIS	(714)765-4298
CITY OF ANAHEIM PUBLIC WORKS DEPARTMENT	CESAR CARRILLO	(714)765-5100
ORANGE COUNTY SANITATION DISTRICT	RICHARD LEON	(714)593-7242
AT&T	MICHELLE CARRASCO	(951)359-2164
XO COMMUNICATIONS	LEE ARNOLD	lee.arnold@xo.com
TIME WARNER CABLE	CARLOS PINA	(951634-1572
SOUTHERN CALIFORNIA GAS COMPANY	DAVE SHERMAN	(714)634-3034

BASIS OF BEARING

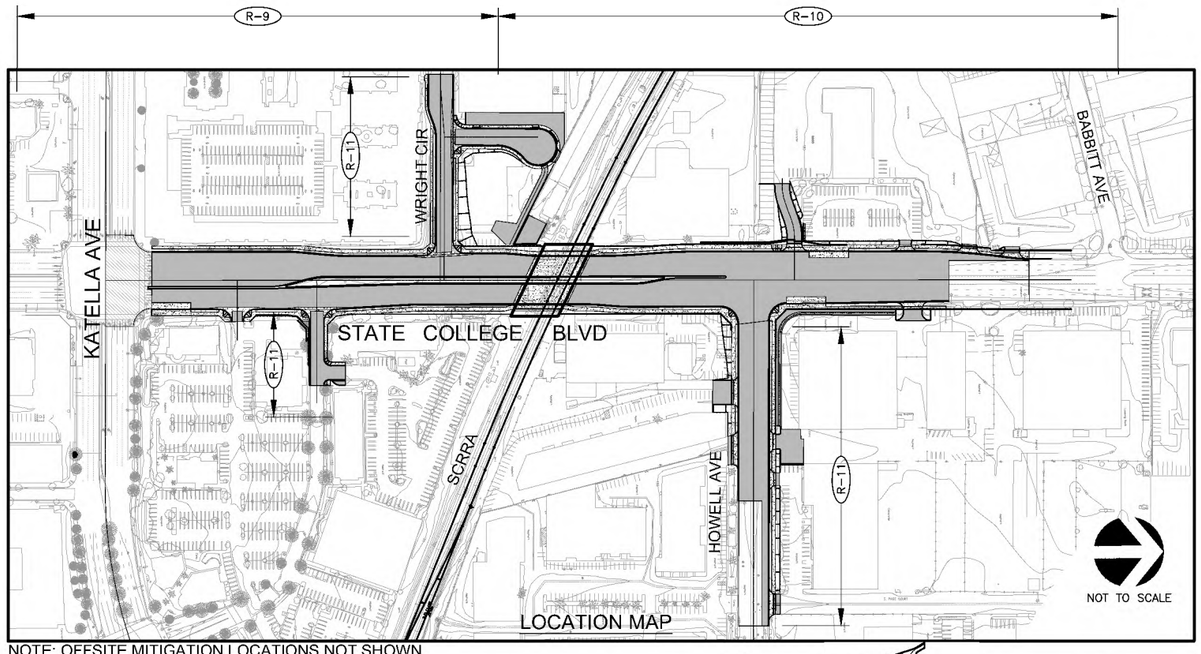
CALIFORNIA STATE ZONE 6 U.S. SURVEY FEET, NAD83 (2007.00) AS DETERMINED BY STATIC GPS SURVEY FROM ORANGE COUNTY PUBLIC WORKS CONTINUOUS GPS STATIONS DESIGNATED OEOC AND CCCS.

BENCHMARK

CITY OF ANAHEIM BENCHMARK 12B-14, ELEVATION 161.31 FEET, NAVD 1988 DATUM. LOCATED ON THE NORTHWEST TOP OF CURB AT STATE COLLEGE BLVD AND CERRITOS AVE.

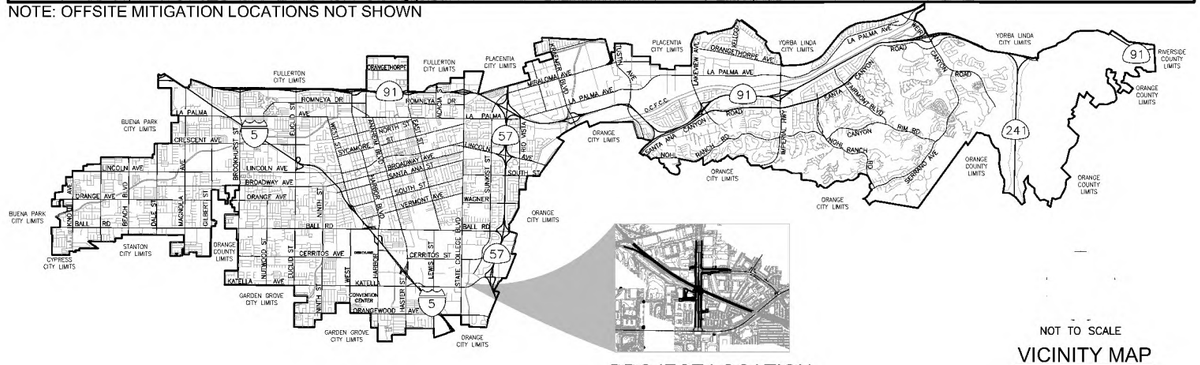
CITY OF ANAHEIM

GRADE SEPARATION PLANS FOR THE CONSTRUCTION OF
STATE COLLEGE BOULEVARD
FROM KATELLA AVE TO BABBITT AVE



LOCATION MAP

NOTE: OFFSITE MITIGATION LOCATIONS NOT SHOWN



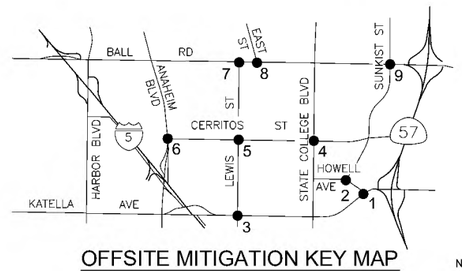
PROJECT LOCATION

NOT TO SCALE

VICINITY MAP

OFFSITE MITIGATION LOCATIONS

LOCATION NO. (BELOW)	DESCRIPTION	PLAN NO.
1	KATELLA AVENUE/ HOWELL AVENUE	R-13, R-14
2	HOWELL AVENUE/ SUNKIST AVENUE	R-14
3	KATELLA AVENUE/ LEWIS STREET	R-15, SS-6
4	STATE COLLEGE BOULEVARD/ CERRITOS AVENUE	TS-1
5	CERRITOS AVENUE/ LEWIS STREET	TS-10
6	CERRITOS AVENUE/ ANAHEIM AVENUE	TS-12
7	BALL ROAD/ LEWIS STREET	TS-13
8	BALL ROAD/ EAST STREET	TS-14
9	BALL ROAD/ SUNKIST STREET	TS-15



OFFSITE MITIGATION KEY MAP

NOT TO SCALE

OCFCD PERMIT 2013-00283

DATE 7/15/2013

APPROVALS	
TRAFFIC/TRANSPORTATION ENGINEER	DATE
DESIGN SERVICES MANAGER	DATE
CITY ENGINEER	DATE

35% SUBMITTAL (NOT FOR CONSTRUCTION)

DIGALERT — DIAL TOLL FREE 1-800-277-2600 AT LEAST TWO DAYS BEFORE YOU DIG — UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

HDR — HDR Engineering, Inc.

REVISIONS				
NO.	DATE	DESCRIPTION	ENGR.	APPROV.

REFERENCES	
FOR NOTES TO CONTRACTOR SEE PLAN	XXXXX
FOR STANDARD DETAILS SEE:	
STREET PLAN NO's: XXX-XXX	STRIPING PLAN NO's: XXX-XXX
DIST. MAP NO. 107, 117	BENCH MARK NO. 12B-14 ELEVATION: 161.41'
BASIS OF BEARING: CALIFORNIA STATE PLANE ZONE 6 U.S. SURVEY FEET, NAD83 (2007.00) AS DETERMINED BY STATIC GPS SURVEY FROM ORANGE COUNTY PUBLIC WORKS CONTINUOUS GPS STATIONS DESIGNATED OEOC AND CCCS	

SCALE: NTS | DESIGNED BY: MC | REVIEWED BY: LN

REGISTERED PROFESSIONAL ENGINEER — MARC P. COOLEY — No. 54905 Exp. 6-30-14 — CIVIL — STATE OF CALIFORNIA

PLAN PREPARED BY:

PRINCIPAL ENGINEER

#54905 R.C.E. No. DATE

CITY OF ANAHEIM CALIFORNIA — FOUNDED 1857

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS
200 SOUTH ANAHEIM BLVD. #276
ANAHEIM, CA 92805
(714) 765-5176
www.anaheim.net

STREET IMPROVEMENT
STATE COLLEGE GRADE SEPARATION
TITLE SHEET

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS

ACCOUNT NUMBER
R709

SHEET OF

PLAN NUMBER G-1

R709-ST COLLEGE GRADE SEPARATION

C:\pwworking\ocd\d0425258\D1-STL.dwg 11/21/2013 11:59

CONSTRUCTION NOTES SUMMARY

DEMOLITION NOTES:

1 — ADJUST MH TO GRADE
2 — ADJUST SURFACE APPURTENANCE TO GRADE
3 — CLEAR & GRUB, LANDSCAPE
4 — RELOCATE ELECTRIC VAULT/CABINET (BY CITY)
5 — RELOCATE FIRE HYDRANT
6 — REMOVE AND SALVAGE TREE
7 — REMOVE AND SALVAGE ORNAMENTAL SIGN
8 — REMOVE AND SALVAGE ORNAMENTAL STREET LIGHT
9 — REMOVE AND SALVAGE FIRE HYDRANT
10 — REMOVE AND SALVAGE SIGN & POST
11 — REMOVE AND SALVAGE SIGN(S) FROM POLE
12 — REMOVE AND RESET BUS STOP & FURNITURE
13 — REMOVE AND RESET COMMERCIAL SIGN(S) & POST
14 — REMOVE AND RESET PARKING LOT LIGHT
15 — REMOVE STREET LIGHT
16 — REMOVE STREET SIGNAL POLE
17 — REMOVE STREET SIGNAL CABINET
18 — NOT USED
19 — REMOVE STREET SIGNAL & CABINET
20 — REMOVE VAULT
21 — REMOVE MANHHOLE
22 — REMOVE VALVE (WATER)
23 — REMOVE INTERFERING UNDERGROUND UTILITY
24 — REMOVE RAISED MEDIAN
25 — REMOVE IRRIGATION CONTROLLER & PEDESTAL
26 — REMOVE OH POLE & UTILITY BY OTHERS
27 — REMOVE PULLBOX /HANDHOLE
28 — REMOVE PEDESTRIAN CROSSING EQUIPMENT
29 — REMOVE GATE & POSTS
30 — REMOVE RAILROAD SIGNAL CABINET
31 — REMOVE TELECOM CABINET (BY OTHERS)
32 — REMOVE CHAIN LINK FENCE
33 — REMOVE PEDESTAL
34 — REMOVE CONC BARRIER/FENCE
35 — REMOVE RAILROAD SIGNAL GATE
36 — NOT USED
37 — REMOVE COMMERCIAL SIGN
38 — REMOVE CATCH BASIN
39 — REMOVE BLOCK WALL
40 — REMOVE RETAINING WALL
41 — REMOVE ELECTRICAL CABINET
42 — NOT USED
43 — REMOVE PCC PARKWAY CULVERT
44 — REMOVE PCC BUS PAD
45 — REMOVE PCC SIDEWALK
46 — REMOVE PCC CURB & GUTTER
47 — REMOVE PCC PAVEMENT
48 — REMOVE PCC CROSS GUTTER
49 — REMOVE EXISTING DRIVEWAY APPROACH
50 — REMOVE AC PAVEMENT
51 — REMOVE TREE
52 — PROTECT IN PLACE
53 — SALVAGE CAMERA
54 — TELCOM POLE TO BE REMOVED (BY OTHERS)
55 — REMOVE RAILROAD CROSSING GATE
56 — REMOVE RAILROAD SIGNAL BUNGALOW
57 — REMOVE RAILROAD SIGNAL CABINET
58 — REMOVE RAILROAD SIGNAL VAULT
59 — REMOVE PCC CROSSING PANEL
60 — REMOVE BILLBOARD (BY OTHERS)
61 — NOT USED
62 — NOT USED
63 — REMOVE OR MOVE COMMERCIAL SIGN
64 — RELOCATE FDC & PIV VALVES (BY CITY)
65 — REMOVE COMMERCIAL SIGN(S) & POST
66 — REMOVE UTILITY CABINET
67 — REMOVE TRASH ENCLOSURE
68 — REMOVE FDC/PIV VALVE
A — REMOVE EXISTING IMPROVEMENTS TO R/W LIMIT OR LIMITS SHOWN, INCLUDING PAVEMENT, CURB & GUTTER, SIDEWALK, DRIVEWAY, CROSS GUTTER, AND ALL OTHER IMPROVEMENTS (UNLESS OTHERWISE NOTED FOR ADJUSTMENT OR RELOCATION).

ROADWAY CONSTRUCTION NOTES

1 — PROTECT IN PLACE.
2 — SAWCUT EXISTING PAVEMENT.
3 — CONSTRUCT 8"AC OVER 7.5"AB PAVEMENT SECTION.
4 — CONSTRUCT 6"AC OVER 7"AB PAVEMENT SECTION.
5 — CONSTRUCT 5"AC OVER 4.5"AB PAVEMENT SECTION
6 — CONSTRUCT 11"AC OVER 6"AB PAVEMENT SECTION.
7 — CONSTRUCT 3.5"AC OVER 4"AB PAVEMENT SECTION.
8 — RECONSTRUCT AC PAVEMENT WITHIN PARKING AREA, 3"AC OVER 4"AB.
9 — CONSTRUCT 12"THICK PCC BUS PAD MONOLITHIC WITH ADJACENT CURB AND GUTTER OVER 95% COMPACTED SUBGRADE. SEE SHEET R-12 FOR DETAIL.
10 — CONSTRUCT FULL DEPTH AC PAVEMENT OVER 95% COMPACTED SUBGRADE. DEPTH PER PLAN
11 — GRIND AND OVERLAY EXISTING PAVEMENT TO A DEPTH OF 2"BELOW FINISHED SURFACE AND CONSTRUCT MINIMUM 2" AC PAVEMENT SECTION.
12 — CONSTRUCT TYPE A CURB AND GUTTER (8"CF) PER CITY OF ANAHEIM STD. DETAIL NO. 120.
13 — CONSTRUCT TYPE B CURB AND GUTTER (6"CF) PER CITY OF ANAHEIM STD. DETAIL NO. 120.
14 — CONSTRUCT TYPE D CURB (8"CF) PER CITY OF ANAHEIM STD. DETAIL NO. 120.
15 — CONSTRUCT PCC SIDEWALK PER CITY OF ANAHEIM STD. DETAIL NO. 110-B WITH PLATINUM TRIANGLE SCORING PATTERN PER CITY OF ANAHEIM STD. DETAIL NO. 118.
16 — CONSTRUCT MEDIAN STAMPED "SLATE" PATTERN CONCRETE HARDSCAPE IMPROVEMENTS PER CITY OF ANAHEIM STD. DETAIL NO. 143.
17 — CONSTRUCT LONGITUDINAL RIBBON GUTTER TO MATCH EXISTING WIDTH.
18 — CONSTRUCT CROSS GUTTER PER CITY OF ANAHEIM STD. DETAIL NO. 121-A.
19 — CONSTRUCT CURB RAMP PER SPPWC STD. PLAN 111-5, TYPE PER PLAN.
20 — CONSTRUCT ARTERIAL HIGHWAY AND COMMERCIAL DRIVEWAY APPROACH, PER CITY OF ANAHEIM STD. DETAIL NO. 114-A, WIDTH AND CASE PER PLAN.
21 — CONSTRUCT LOCAL STREET/RESIDENTIAL DRIVEWAY APPROACH, PER CITY OF ANAHEIM STD. DETAIL NO. 115-B, WIDTH AND CASE PER PLAN.
22 — CONSTRUCT MEDIAN BAY TAPER, LENGTH PER PLAN, PER SPPWC STD. PLAN NO. 140-3.
23 — CONSTRUCT CONCRETE CURB SLOUGH WALL PER CITY OF ANAHEIM STD. DETAIL NO. 623.
24 — CONSTRUCT SOLDIER PILE WALL PER DETAILS INCLUDED IN RETAINING WALL PLANS. SEE SHEETS RW-0 TO RW-21.
25 — CONSTRUCT REINFORCED CONCRETE RETAINING WALL TYPE 3 PER SPPWC STD. PLAN NO. 612-3.
26 — CONSTRUCT REINFORCED CONCRETE RETAINING WALL TYPE 6 PER SPPWC STD. PLAN NO. 615-4.
27 — CONSTRUCT LANDSCAPING IMPROVEMENTS PER LANDSCAPING PLANS INCLUDED HEREIN. SEE SHEETS L-0 TO L-7.
28 — CONSTRUCT A1-150 CURB PER APWA STD. PLAN NO. 120-2.
29 — INSTALL DETECTABLE WARNING SURFACE PER SPPWC STD. PLAN NO. 111-5.
30 — CONSTRUCT 7"AC OVER 6"AB PAVEMENT SECTION.
31 — CONSTRUCT 6"AC OVER 5.5"AB TEMPORARY PAVEMENT SECTION.
32 — CONSTRUCT LOCAL DEPRESSION PER CITY OF ANAHEIM STD. DETAIL NO. 313, CASE A.
33 — SLURRY SEAL EXISTING PAVEMENT.
34 — INSTALL SURVEY WELL MONUMENT PER ANAHEIM STD PLAN NO. 641-A.
35 — CONSTRUCT ROLLING ACCESS GATE.
36 — CONSTRUCT FENCE.

SIGNING & STRIPING GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE CURRENT CITY OF ANAHEIM STANDARD PLANS, AND THE SPECIAL PROVISIONS FOR THIS PROJECT. TRAFFIC STRIPES, PAVEMENT LEGENDS AND RAISED PAVEMENT MARKERS SHALL CONFORM TO CALIFORNIA MUTCD 2012 EDITION; CALTRANS STANDARD PLANS, AND STANDARD SPECIFICATIONS 84 AND 85, 2010 EDITION.
2. REFLECTORIZE ALL STRIPES AND LEGENDS. PAVEMENT LEGENDS AND MARKINGS SHALL MATCH CITY STENCILS.
3. ALL CONFLICTING LINES, EXISTING CURB PAINT, AND MARKINGS SHALL BE REMOVED BY WET SANDBLASTING OR OTHER APPROVED METHOD PRIOR TO INSTALLATION OF NEW STRIPING. ALL CONFLICTING RAISED PAVEMENT MARKERS SHALL BE REMOVED. PAVEMENT THAT IS DAMAGED DUE TO REMOVAL OF MARKERS SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER.
4. FIRST STRIPING COAT SHALL BE APPLIED WITHIN 24 HOURS OF SURFACE COARSE PLACEMENT ON STREETS OPEN TO PUBLIC. IN NO CASE A NEWLY PAVED STREET OPEN TO THE PUBLIC BE LEFT UNSTRIPED OVER A WEEKEND OR HOLIDAY.
5. NEW SIGN POST SHALL MEET RESORT AREA REQUIREMENTS UNLESS OTHERWISE NOTED. SIGN SHALL BE MOUNTED ON STREET LIGHT POLES WHENEVER FEASIBLE.
6. STRIPING SHALL BE CAT-TRACKED AND APPROVED BY THE CITY TRAFFIC ENGINEER PRIOR TO FINAL INSTALLATION.
7. ALL MARKINGS, LIMIT LINES, STOP BARS, CROSSWALKS AND ARROWS SHALL BE THERMOPLASTIC.
8. ALL STRIPING SHALL BE INSTALLED WITH PAINT (2 COATS) AND RPM'S.

SIGNING AND STRIPING CONSTRUCTION NOTES:

1 — RELOCATE EXISTING SIGN TO NEW/EXISTING POST OR ST. LIGHT AS SHOWN. REMOVE AND SALVAGE ABANDONED SIGN POST AS NEEDED.
2 — INSTALL NEW SIGN(S) AND POST AS SHOWN. ALL NEW SIGNS SHALL BE DIAMOND GRADE.
3 — INSTALL 4" BROKEN WHITE LANE LINE WITH A AND G MARKERS (PER CITY STD. 451-E).
4 — INSTALL 8" SOLID WHITE LANE LINE WITH TYPE A, G AND C MARKERS (PER CITY STD. 452-B).
5 — INSTALL TYPE IV PAVEMENT ARROW (L/R), THERMOPLASTIC (PER CALTRANS STD. RSP A24A).
6 — INSTALL 12" SOLID WHITE STOP BAR CROSSWALK LEGEND, THERMOPLASTIC (PER CITY STD. 435-C).
7 — INSTALL STOP BAR LEGEND, THERMOPLASTIC (PER CITY STD. 434-A).
8 — INSTALL PREMIXED YELLOW TRAFFIC PAINT WITH GLASS BEADS FOR MEDIAN NOSE TREATMENTS (PER CITY STD. 456-B).
9 — INSTALL 4" SOLID WHITE LANE LINE WITH TYPE A AND G MARKERS (PER CITY STD. 451-E).
10 — REMOVE AND SALVAGE EXISTING SIGN(S).
12 — INSTALL TWO-WAY LEFT TURN LANE STRIPING WITH TYPE AY AND D MARKERS (PER CITY STD. 454-C).
13 — INSTALL 6" WHITE BIKE LANE INTERSECTION LINE (PER CALTRANS DETAIL 39A).
14 — INSTALL 4" DOUBLE YELLOW LINE STRIPING WITH TYPE AY AND D MARKERS (PER CITY STD. 453-A).
16 — INSTALL 4" WHITE DIAGONAL LINE AT 40' SPACING OR AS NOTED.
17 — INSTALL 4" DOUBLE-DOUBLE YELLOW LINE STRIPING (PER CALTRANS DETAIL 30).
18 — INSTALL BLUE REFLECTORIZED MARKER FOR FIRE HYDRANT LOCATION (PER CITY STD. 457).
19 — INSTALL 12" WHITE CROSSWALK OR LIMIT LINE, THERMOPLASTIC.
20 — INSTALL TYPE VI PAVEMENT ARROW, THERMOPLASTIC (PER CALTRANS STD. RSP A24A).
21 — INSTALL TYPE VII PAVEMENT ARROW (RT), THERMOPLASTIC (PER CALTRANS STD. RSP A24A).
22 — INSTALL 6" WHITE BIKE LANE LINE (PER CALTRANS DETAIL 39).
23 — INSTALL BIKE LANE ARROW AND SYMBOL (PER CALTRANS STD. PLAN RSP A24A & RSP A24C).
24 — INSTALL 8" WHITE CHEVRON STRIPING AT INTERVAL AS SHOWN.
25 — INSTALL TYPE I PAVEMENT ARROW, THERMOPLASTIC (PER CALTRANS STD. RSP A24A).
26 — INSTALL 8" WHITE LANE DROP LINE (PER CALTRANS DETAIL 37B).
27 — INSTALL 4" BROKEN YELLOW LANE LINE WITH AY AND D MARKERS (PER CITY STD. 450-A).
28 — REMOVE EXISTING STRIPING – SANDBLAST OR GRIND AS APPROPRIATE.
29 — INSTALL STREET NAME SIGN (PER CITY STD. 425-B).

STORM DRAIN CONSTRUCTION NOTES:

1 — PROTECT IN PLACE
2 — INSTALL 18" RCP (2000-D, UNLESS NOTED OTHERWISE ON PLANS)
3 — INSTALL 24" RCP (SEE PLAN FOR D-LOAD)
4 — INSTALL 2-24" RCP (WITH RUBBER GASKETS AND CONCRETE BACKFILL)
5 — INSTALL 30" RCP (SEE PLAN FOR D-LOAD)
6 — CONSTRUCT GRATING CATCH BASIN-ALLEY PER SPPWC STD. PLAN 304-3 (MODIFIED FOR 30" RCP CONNECTOR PIPES)
7 — CONSTRUCT CURB OPENING CATCH BASIN PER SPPWC STD. PLAN 300-3, W PER PLAN
8 — CONSTRUCT INLET TYPE V PER OCPW STD. PLAN 1305 AS MODIFIED PER DETAIL ON SD-1
9 — CONSTRUCT JUNCTION STRUCTURE TYPE V PER OCPW STD. PLAN 333-2-OC (DETAILS SHEET SD-1)
10 — CONSTRUCT JUNCTION STRUCTURE PER SPPWC STD. PLAN 331-3.
11 — CONSTRUCT MANHOLE PER SPPWC STD PLAN 321-2.
12 — CONSTRUCT PRESSURIZED MANHOLE PER SPPWC STD. PLAN 320-2 (D1 & D2 = 5')
13 — CONSTRUCT CONCRETE COLLAR PER SPPWC STD. PLAN 380-4
14 — CONSTRUCT GROUTED RIP-RAP PER DETAIL ON SHEET SD-2
15 — CONSTRUCT PROTRUDED CAGE AROUND 9" OPENING
16 — CONSTRUCT 4' LONGITUDINAL GUTTER PER SPPWC STD. PLAN 122-2
17 — INSTALL HYDRO GATE HEAVY DUTY FLAP GATE FOR 12" RCP OR APPROVED EQUAL
18 — INSTALL HYDRO GATE HEAVY DUTY FLAP GATE FOR 18" RCP OR APPROVED EQUAL
19 — INSTALL 12"RCP
20 — CONSTRUCT 3.5" AC OVER 4" AB PAVEMENT SECTION
21 — INSTALL MANHOLE FRAME AND COVER PER CITY OF ANAHEIM STD. DETAIL 630-3
22 — INSTALL HEADWALL PER CALTRANS STD. PLAN D-86
23 — INSTALL CHAIN LINK FENCE PER SPPWC STD. PLAN 600-3

CONTROL MONUMENT DESCRIPTIONS

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
150	2242677.41	6065869.55	165.17*	SET 1" DIA. BRASS CAP STAMPED "SURVEY CONTROL" ON A STORM DRAIN INLET ON THE NORTH CURB LINE OF CERRITOS AVE, 180 FEET EASTERLY OF THE NORTHEAST CURB RETURN AT THE INTERSECTION OF CERRITOS AVENUE AND SUNKIST STREETS.
198	2240524.35	6063654.44	156.66	SET 1" DIA. BRASS CAP STAMPED "SURVEY CONTROL" ON SOUTHWEST CURB RETURN AT THE INTERSECTION OF STATE COLLEGE BLVD. AND WRIGHT CIRCLE.
199	2241200.06	6063794.88	157.25	SET 1" DIA. BRASS CAP STAMPED "SURVEY CONTROL" ON NORTHEAST CURB RETURN AT THE INTERSECTION OF STATE COLLEGE BLVD. AND HOWELL AVENUE.
200	2241798.43	6062939.09	156.42	SET 1" DIA. BRASS CAP STAMPED "SURVEY CONTROL" 3 FEET SOUTHERLY OF A FIRE HYDRANT ALONG THE NORTH LINE OF FORMER BABBITT AVENUE, APPROX. 50 FEET NORTHERLY OF THE CENTER OF THE CUL-DE-SAC OF SAID AVENUE.
421	2240545.28	6063187.86	153.44*	FOUND BOAT SPIKE AND WASHER STAMPED "LS5347" AT CENTERLINE INTERSECTION OF HOWELL AVENUE AND SUNKIST STREET.
703	2241135.13	6064860.06	156.63*	FOUND WELL MONUMENT ON CENTERLINE OF WRIGHT CIRCLE AT WEST END OF CUL-DE-SAC
1005	2242531.814	6063665.414	161.41	FOUND CITY OF ANAHEIM BENCHMARK 12B-14 ON NORTHWEST CURB RETURN AT STATE COLLEGE BLVD. AND CERRITOS AVE. (PROJECT BENCHMARK)

* INDICATES POINT WITH GPS DERIVED ELEVATION - NOT INTENDED FOR VERTICAL PROJECT CONTROL

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HDR — HDR Engineering, Inc.

35% SUBMITTAL (NOT FOR CONSTRUCTION)

REVISIONS				
NO.	DATE	DESCRIPTION	ENGR.	APPROV.

REFERENCES		
FOR NOTES TO CONTRACTOR SEE PLAN	XXXXX	
FOR STANDARD DETAILS SEE:		
STREET PLAN NO's: XXX-XXX	STRIPING PLAN NO's: XXX-XXX	
DIST. MAP NO. 107, 117	BENCH MARK NO. 12B-14	ELEVATION: 161.41'
BASIS OF BEARING: CALIFORNIA STATE PLANE ZONE 6 U.S. SURVEY FEET, NAD83 (2007.00) AS DETERMINED BY STATIC GPS SURVEY FROM ORANGE COUNTY PUBLIC WORKS CONTINUOUS GPS STATIONS DESIGNATED OEOC AND CCCS		

SCALE: NTS | DESIGNED BY: MC | REVIEWED BY: LN

REGISTERED PROFESSIONAL ENGINEER — MARC P. COOLEY — No. 54905 Exp. 6-30-14 — CIVIL — STATE OF CALIFORNIA

PLAN PREPARED BY:

PRINCIPAL ENGINEER

R.C.E. No. | DATE

CITY OF ANAHEIM CALIFORNIA — FOUNDED 1857

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS
200 SOUTH ANAHEIM BLVD. #276
ANAHEIM, CA 92805
(714) 765-5176
www.anaheim.net

STREET IMPROVEMENT
STATE COLLEGE GRADE SEPARATION
CONSTRUCTION NOTES

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS

ACCOUNT NUMBER
R709

SHEET OF
PLAN NUMBER G-3

R709-ST COLLEGE GRADE SEPARATION

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CONSTRUCTION NOTES - ROADWAY

(1) — PROTECT IN PLACE

(3) — CONSTRUCT 8" AC OVER 7.5" AB PAVEMENT SECTION.

(12) — CONSTRUCT TYPE A CURB AND GUTTER (8"CF) PER CITY OF ANAHEIM STD. DETAIL NO. 120.

(14) — CONSTRUCT TYPE D CURB (8"CF) PER CITY OF ANAHEIM STD. DETAIL NO. 120.

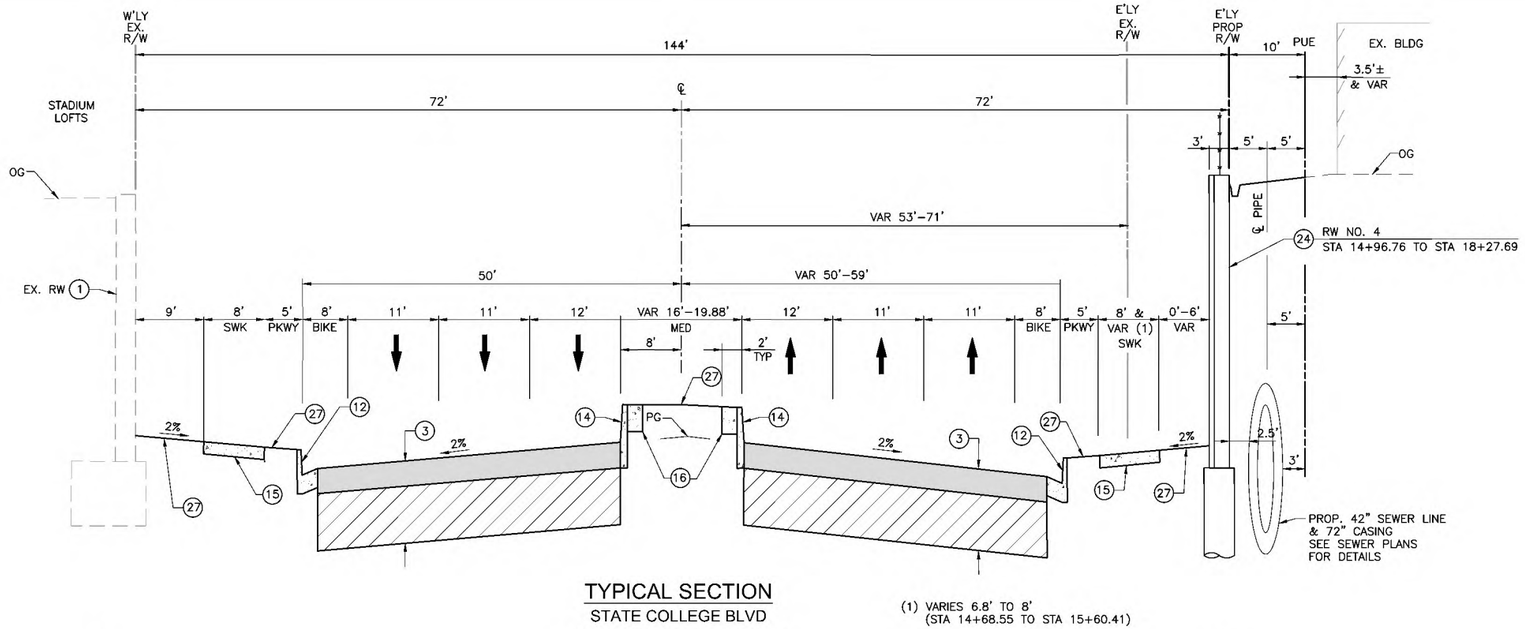
(15) — CONSTRUCT PCC SIDEWALK PER CITY OF ANAHEIM STD. DETAIL NO. 110-B WITH PLATINUM TRIANGLE SCORING PATTERN PER CITY OF ANAHEIM STD. DETAIL NO. 118.

(16) — CONSTRUCT MEDIAN STAMPED "SLATE" PATTERN CONCRETE HARDSCAPE IMPROVEMENTS PER CITY OF ANAHEIM STD. DETAIL NO. 143.

(24) — CONSTRUCT SOLDIER PILE WALL PER DETAILS INCLUDED IN RETAINING WALL PLANS. SEE SHEETS RW-0 TO RW-21.

(26) — CONSTRUCT REINFORCED CONCRETE RETAINING WALL TYPE 6 PER SPPWC STD. PLAN NO. 615-4.

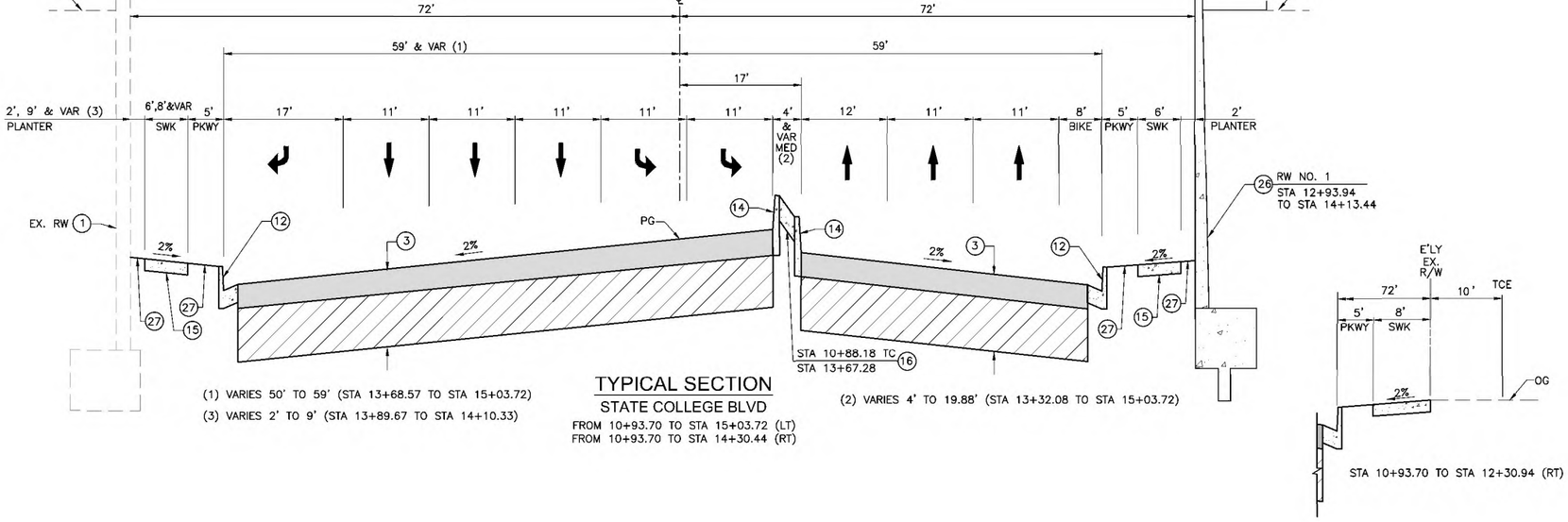
(27) — CONSTRUCT LANDSCAPING IMPROVEMENTS PER LANDSCAPING PLANS INCLUDED HEREIN. SEE SHEETS L-0 TO L-7.



TYPICAL SECTION
STATE COLLEGE BLVD

FROM STA 15+03.72 TO 16+90 (LT)
FROM 14+30.44 TO STA 16+33.73 (RT)

(1) VARIES 6.8' TO 8' (STA 14+68.55 TO STA 15+60.41)



(1) VARIES 50' TO 59' (STA 13+68.57 TO STA 15+03.72)
(3) VARIES 2' TO 9' (STA 13+89.67 TO STA 14+10.33)

TYPICAL SECTION
STATE COLLEGE BLVD

FROM 10+93.70 TO STA 15+03.72 (LT)
FROM 10+93.70 TO STA 14+30.44 (RT)

(2) VARIES 4' TO 19.88' (STA 13+32.08 TO STA 15+03.72)

STA 10+93.70 TO STA 12+30.94 (RT)

LEGEND

PROPOSED AC PAVEMENT

PROPOSED PCC PAVEMENT

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REVISIONS				
NO.	DATE	DESCRIPTION	ENGR.	APPROV.

REFERENCES	
FOR NOTES TO CONTRACTOR SEE PLAN	XXXXX
FOR STANDARD DETAILS SEE:	
STREET PLAN NO's: XXX-XXX	STRIPING PLAN NO's: XXX-XXX
DIST. MAP NO. 107, 117	BENCH MARK NO. 12B-14 ELEVATION: 161.41'
BASIS OF BEARING: CALIFORNIA STATE PLANE ZONE 6 U.S. SURVEY FEET, NAD83 (2007.00) AS DETERMINED BY STATIC GPS SURVEY FROM ORANGE COUNTY PUBLIC WORKS CONTINUOUS GPS STATIONS DESIGNATED OEOC AND CCCS	

SCALE: NTS | DESIGNED BY: MC | REVIEWED BY: LN

REGISTERED PROFESSIONAL ENGINEER — MARC P. COOLEY — No. 54905 Exp. 6-30-14 — CIVIL — STATE OF CALIFORNIA

PLAN PREPARED BY:

PRINCIPAL ENGINEER

#54905 R.C.E. No. | DATE

CITY OF ANAHEIM — CALIFORNIA — FOUNDED 1857

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DEPARTMENT OF PUBLIC WORKS
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TYPICAL SECTION PLAN
STATE COLLEGE GRADE SEPARATION
STATE COLLEGE BLVD - KATELLA AVE TO STA 15+03.72

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS

ACCOUNT NUMBER R709

SHEET OF

PLAN NUMBER R-1

R709-ST COLLEGE GRADE SEPARATION

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CONSTRUCTION NOTES - ROADWAY

(3) — CONSTRUCT 8" AC OVER 7.5" AB PAVEMENT SECTION.

(12) — CONSTRUCT TYPE A CURB AND GUTTER (8"CF) PER CITY OF ANAHEIM STD. DETAIL NO. 120.

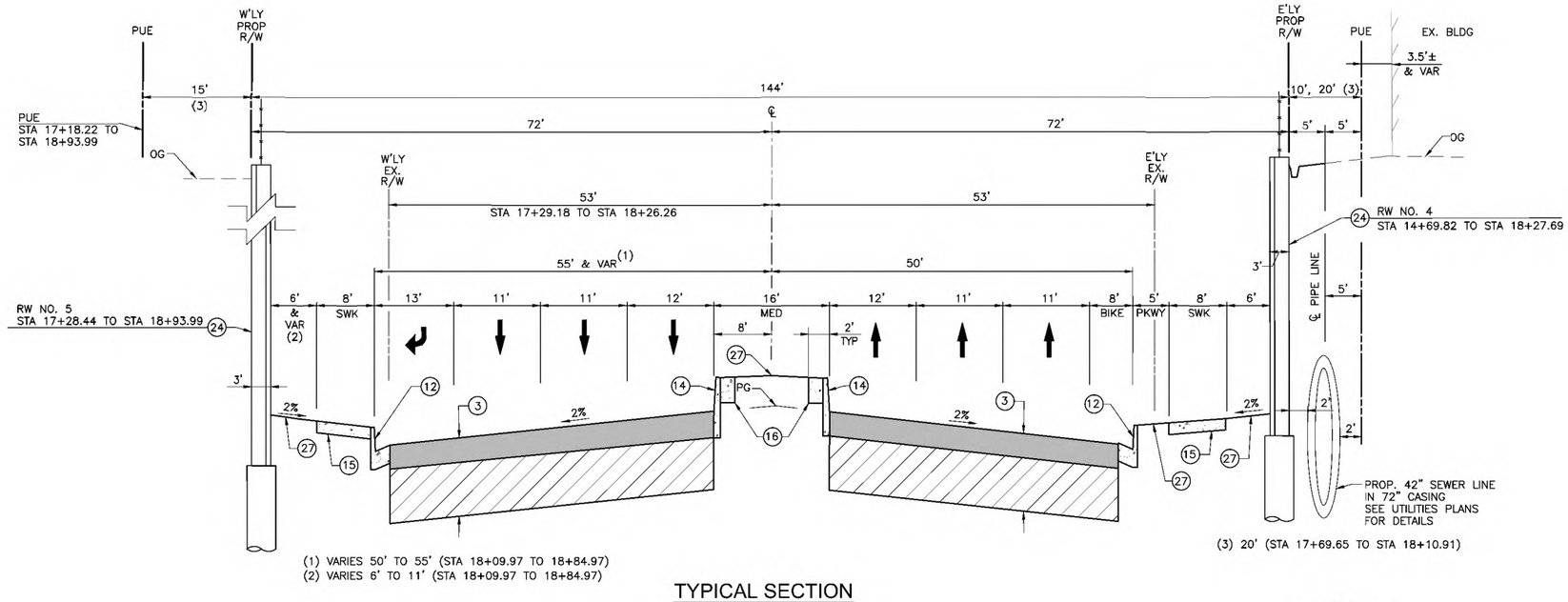
(14) — CONSTRUCT TYPE D CURB (8"CF) PER CITY OF ANAHEIM STD. DETAIL NO. 120.

(15) — CONSTRUCT PCC SIDEWALK PER CITY OF ANAHEIM STD. DETAIL NO. 110-B WITH PLATINUM TRIANGLE SCORING PATTERN PER CITY OF ANAHEIM STD. DETAIL NO. 118.

(16) — CONSTRUCT MEDIAN STAMPED "SLATE" PATTERN CONCRETE HARDSCAPE IMPROVEMENTS PER CITY OF ANAHEIM STD. DETAIL NO. 143.

(24) — CONSTRUCT SOLDIER PILE WALL PER ALL DETAILS INCLUDED IN RETAINING WALL PLANS. SEE SHEETS R-0 TO R-21.

(27) — CONSTRUCT LANDSCAPING IMPROVEMENTS PER LANDSCAPING PLANS INCLUDED HEREIN. SEE SHEETS L-0 TO L-7.



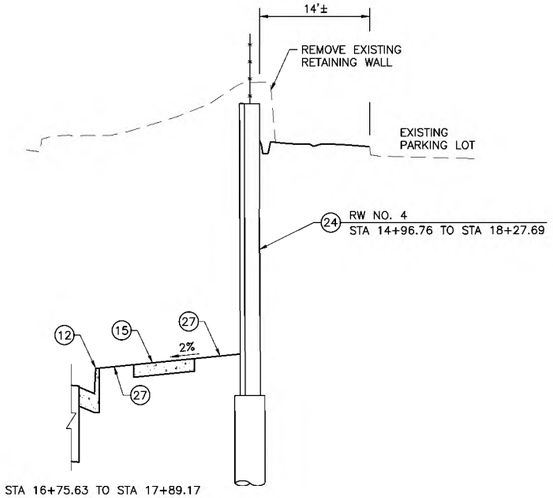
(1) VARIES 50' TO 55' (STA 18+09.97 TO 18+84.97)
(2) VARIES 6' TO 11' (STA 18+09.97 TO 18+84.97)

(3) 20' (STA 17+69.65 TO STA 18+10.91)

TYPICAL SECTION

STATE COLLEGE BLVD

FROM STA 16+90.70 TO STA 18+93.99 (LT)
FROM STA 16+33.78 TO STA 18+27.69 (RT)
(SECTION UNDER RAILROAD BRIDGE SHOWN SEPARATELY)



STA 16+75.63 TO STA 17+89.17

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REVISIONS				
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REFERENCES	
FOR NOTES TO CONTRACTOR SEE PLAN	XXXXX
FOR STANDARD DETAILS SEE:	
STREET PLAN NO's: XXX-XXX	STRIPING PLAN NO's: XXX-XXX
DIST. MAP NO. 107, 117	BENCH MARK NO. 128-14 ELEVATION: 161.41'
BASIS OF BEARING: CALIFORNIA STATE PLANE ZONE 6 U.S. SURVEY FEET, NAD83 (2007.00) AS DETERMINED BY STATIC GPS SURVEY FROM ORANGE COUNTY PUBLIC WORKS CONTINUOUS GPS STATIONS DESIGNATED OEOC AND CCCS	

SCALE: NTS | DESIGNED BY: MC | REVIEWED BY: LN

REGISTERED PROFESSIONAL ENGINEER — MARC P. COOLEY — No. 54905 Exp. 6-30-14 — CIVIL — STATE OF CALIFORNIA

PLAN PREPARED BY:

PRINCIPAL ENGINEER

#54905 R.C.E. No. DATE

CITY OF ANAHEIM CALIFORNIA — FOUNDED 1857

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TYPICAL SECTION PLAN
STATE COLLEGE GRADE SEPARATION
STATE COLLEGE BLVD - STA 16+33.78 STA 18+93.99

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS

ACCOUNT NUMBER
R709

SHEET OF

PLAN NUMBER R-2

R709-ST COLLEGE GRADE SEPARATION

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CONSTRUCTION NOTES - ROADWAY

(3) — CONSTRUCT 8" AC OVER 7.5" AB PAVEMENT SECTION.

(6) — CONSTRUCT 11"PCC OVER 6"AB PAVEMENT SECTION.

(12) — CONSTRUCT TYPE A CURB AND GUTTER (8"CF) PER CITY OF ANAHEIM STD. DETAIL NO. 120.

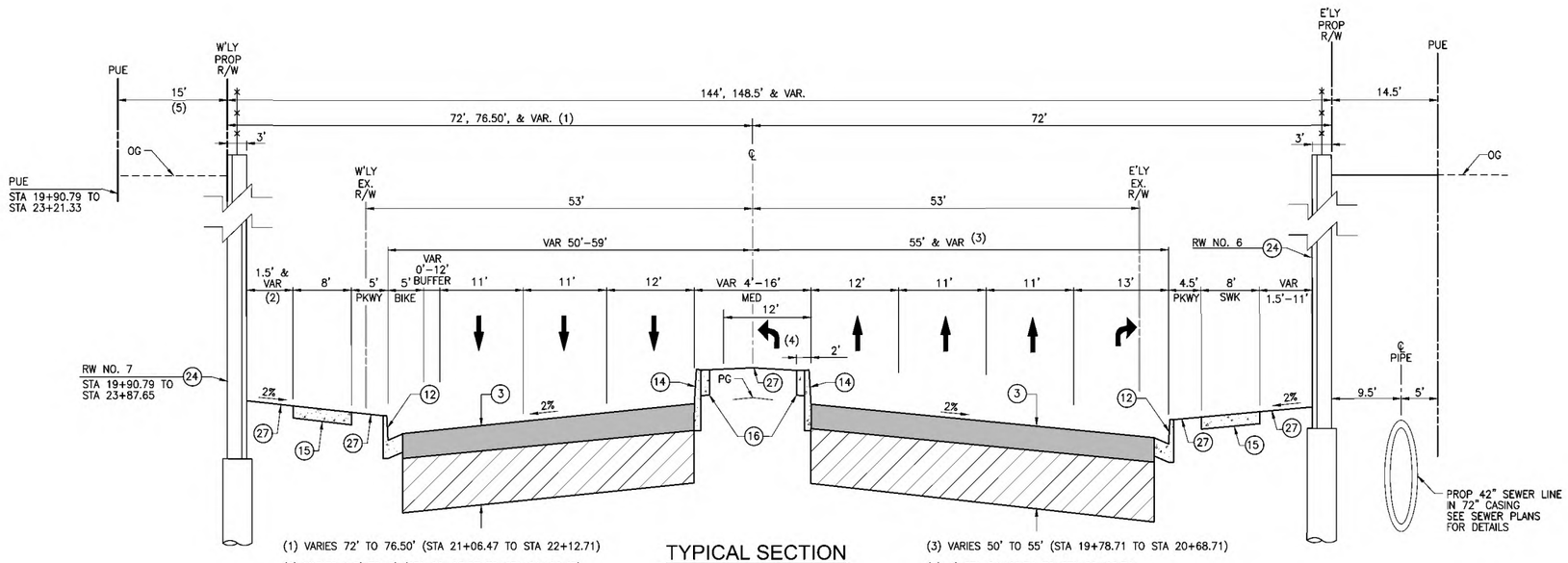
(14) — CONSTRUCT TYPE D CURB (8"CF) PER CITY OF ANAHEIM STD. DETAIL NO. 120.

(15) — CONSTRUCT PCC SIDEWALK PER CITY OF ANAHEIM STD. DETAIL NO. 110-B WITH PLATINUM TRIANGLE SCORING PATTERN PER CITY OF ANAHEIM STD. DETAIL NO. 118.

(16) — CONSTRUCT MEDIAN STAMPED "SLATE" PATTERN CONCRETE HARDSCAPE IMPROVEMENTS PER CITY OF ANAHEIM STD. DETAIL NO. 143.

(24) — CONSTRUCT SOLDIER PILE WALL PER ALL DETAILS INCLUDED IN RETAINING WALL PLANS. SEE SHEETS RW-0 TO RW-21.

(27) — CONSTRUCT LANDSCAPING IMPROVEMENTS PER LANDSCAPING PLANS INCLUDED HEREIN. SEE SHEETS L-0 TO L-7.



(1) VARIES 72' TO 76.50' (STA 21+06.47 TO STA 22+12.71)

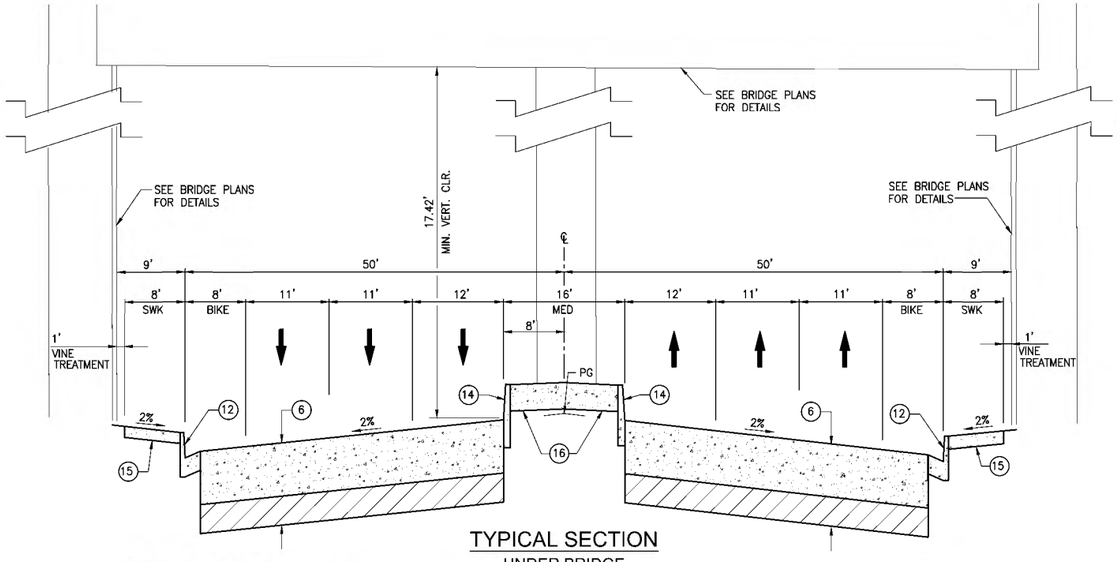
(2) VARIES 1.5' TO 6' (STA 20+05.87 TO STA 21+06.47)

(3) VARIES 50' TO 55' (STA 19+78.71 TO STA 20+68.71)

(4) 4' STA 21+68.71 TO STA 22+62.71

TYPICAL SECTION
STATE COLLEGE BLVD

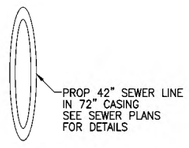
FROM STA 19+90.79 TO STA 24+04.15 (LT)
FROM STA 19+24.49 TO STA 23+21.10 (RT)



(6) FROM STA 18+56.78 TO STA 19+68.25

TYPICAL SECTION
UNDER BRIDGE

FROM STA 18+93.99 TO STA 19+90.79 (LT)
FROM STA 18+27.69 TO STA 19+24.49 (RT)



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REVISIONS				
NO.	DATE	DESCRIPTION	ENGR.	APPROV.

REFERENCES	
FOR NOTES TO CONTRACTOR SEE PLAN	XXXXX
FOR STANDARD DETAILS SEE:	
STREET PLAN NO's: XXX-XXX	STRIPING PLAN NO's: XXX-XXX
DIST. MAP NO. 107, 117	BENCH MARK NO. 12B-14 ELEVATION: 161.41'
BASIS OF BEARING: CALIFORNIA STATE PLANE ZONE 6 U.S. SURVEY FEET, NAD83 (2007.00) AS DETERMINED BY STATIC GPS SURVEY FROM ORANGE COUNTY PUBLIC WORKS CONTINUOUS GPS STATIONS DESIGNATED DEOC AND CCCS	

SCALE: NTS | DESIGNED BY: MC | REVIEWED BY: LN

REGISTERED PROFESSIONAL ENGINEER — MARC P. COOLEY — No. 54905 Exp. 6-30-14 — CIVIL — STATE OF CALIFORNIA

PLAN PREPARED BY:

PRINCIPAL ENGINEER

#54905 R.C.E. No. DATE

CITY OF ANAHEIM CALIFORNIA — FOUNDED 1857

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TYPICAL SECTION PLAN
STATE COLLEGE GRADE SEPARATION
STATE COLLEGE BLVD - STA 18+28.57 TO STA 24+04.15

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS

ACCOUNT NUMBER R709

SHEET OF

PLAN NUMBER R-3

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CONSTRUCTION NOTES - ROADWAY

(2) — SAWCUT EXISTING PAVEMENT.

(3) — CONSTRUCT 8" AC OVER 7.5"AB PAVEMENT SECTION.

(8) — RECONSTRUCT AC PAVEMENT WITHIN PARKING AREA, 3"AC OVER 4"AB.

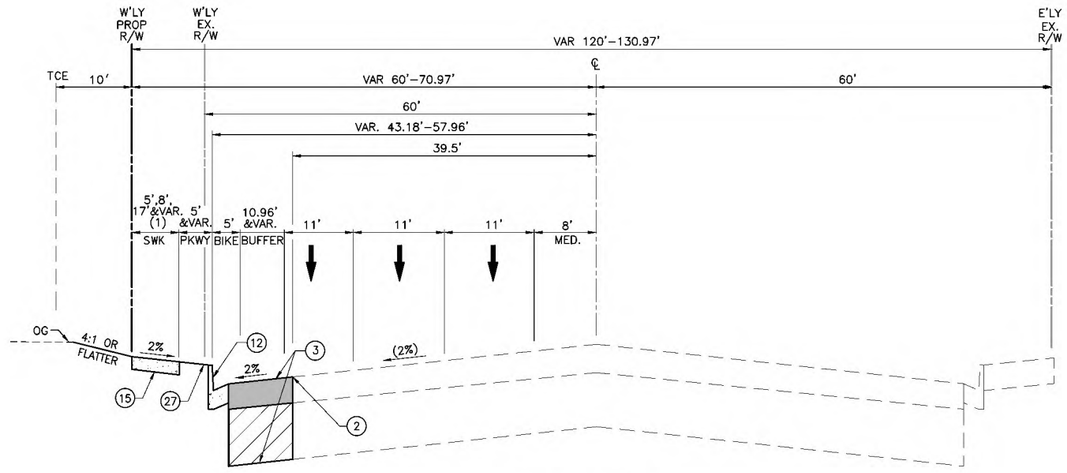
(12) — CONSTRUCT TYPE A CURB AND GUTTER (8"CF) PER CITY OF ANAHEIM STD. DETAIL NO. 120.

(15) — CONSTRUCT PCC SIDEWALK PER CITY OF ANAHEIM STD. DETAIL NO. 110-B WITH PLATINUM TRIANGLE SCORING PATTERN PER CITY OF ANAHEIM STD. DETAIL NO. 118.

(24) — CONSTRUCT SOLDIER PILE WALL PER ALL DETAILS INCLUDED IN RETAINING WALL PLANS. SEE SHEETS RW-0 TO RW-21.

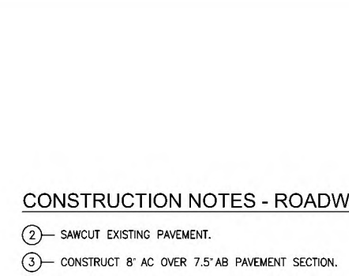
(26) — CONSTRUCT REINFORCED CONCRETE RETAINING WALL TYPE 6 PER SPPWC STD. PLAN NO. 615-4.

(27) — CONSTRUCT LANDSCAPING IMPROVEMENTS PER LANDSCAPING PLANS INCLUDED HEREIN. SEE SHEETS L-0 TO L-7.

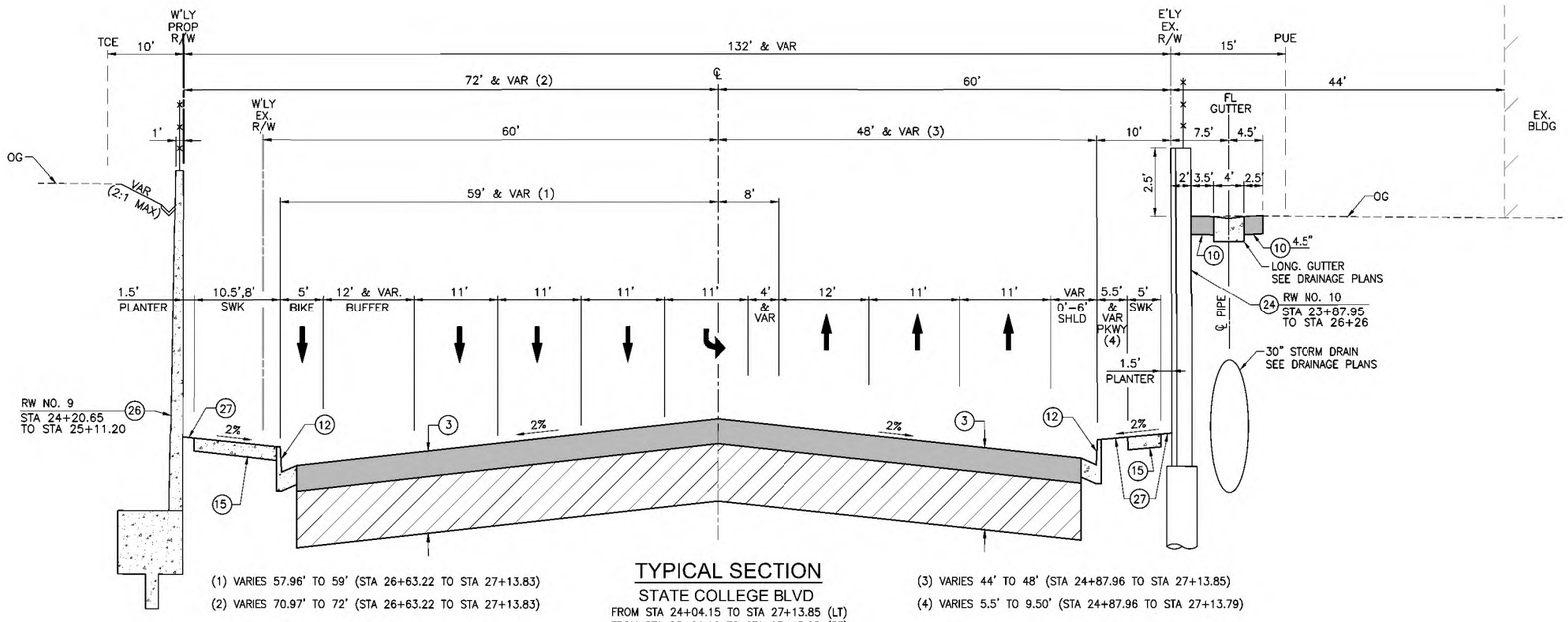


(1) VARIES 4'-8' (STA 28+04.22 TO STA 28+12.64)

TYPICAL SECTION
STATE COLLEGE BLVD
FROM STA 27+18.81 TO STA 28+82.08



FROM STA 25+11.20 TO 27+13.85



(1) VARIES 57.96' TO 59' (STA 26+63.22 TO STA 27+13.83)

(2) VARIES 70.97' TO 72' (STA 26+63.22 TO STA 27+13.83)

TYPICAL SECTION
STATE COLLEGE BLVD
FROM STA 24+04.15 TO STA 27+13.85 (LT)
FROM STA 23+21.10 TO STA 27+13.85 (RT)

(3) VARIES 44' TO 48' (STA 24+87.96 TO STA 27+13.85)

(4) VARIES 5.5' TO 9.50' (STA 24+87.96 TO STA 27+13.79)

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REVISIONS				
NO.	DATE	DESCRIPTION	ENGR.	APPROV.

REFERENCES	
FOR NOTES TO CONTRACTOR SEE PLAN	XXXXX
FOR STANDARD DETAILS SEE:	
STREET PLAN NO's: XXX-XXX	STRIPING PLAN NO's: XXX-XXX
DIST. MAP NO. 107, 117	BENCH MARK NO. 12B-14 ELEVATION: 161.41'
BASIS OF BEARING: CALIFORNIA STATE PLANE ZONE 6 U.S. SURVEY FEET, NAD83 (2007.00) AS DETERMINED BY STATIC GPS SURVEY FROM ORANGE COUNTY PUBLIC WORKS CONTINUOUS GPS STATIONS DESIGNATED OEOC AND CCCS	

SCALE: NTS | DESIGNED BY: MC | REVIEWED BY: LN

REGISTERED PROFESSIONAL ENGINEER — MARC P. COOLEY — No. 54905 Exp. 6-30-14 — CIVIL — STATE OF CALIFORNIA

PLAN PREPARED BY:

PRINCIPAL ENGINEER

#54905 — R.C.E. No. — DATE

CITY OF ANAHEIM CALIFORNIA — FOUNDED 1857

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TYPICAL SECTION PLAN
STATE COLLEGE GRADE SEPARATION
STATE COLLEGE BLVD - STA 24+04.4.15 TO STA 28+82.06

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS

ACCOUNT NUMBER
R709

SHEET OF

PLAN NUMBER R-4

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CONSTRUCTION NOTES - ROADWAY

(2) — SAWCUT EXISTING PAVEMENT.

(4) — CONSTRUCT 6" AC OVER 7" AB PAVEMENT SECTION.

(7) — CONSTRUCT 3.5" AC OVER 4" AB PAVEMENT SECTION.

(8) — RECONSTRUCT AC PAVEMENT WITHIN PARKING AREA, 3" AC OVER 4" AB.

(12) — CONSTRUCT TYPE A CURB AND GUTTER (8"CF) PER CITY OF ANAHEIM STD. DETAIL NO. 120.

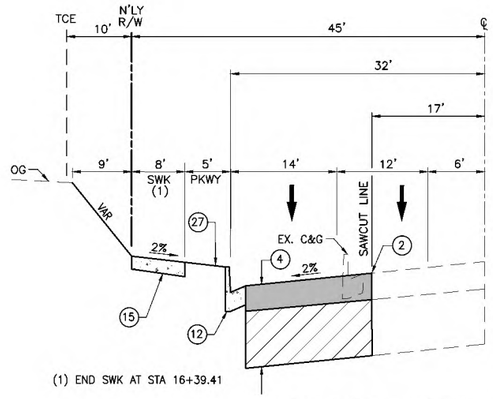
(13) — CONSTRUCT TYPE B CURB AND GUTTER (6"CF) PER CITY OF ANAHEIM STD. DETAIL NO. 120.

(15) — CONSTRUCT PCC SIDEWALK PER CITY OF ANAHEIM STD. DETAIL NO. 110-B, WITH PLATINUM TRIANGLE SCORING PATTERN PER CITY OF ANAHEIM STD. DETAIL NO. 118.

(24) — CONSTRUCT SOLDIER PILE WALL PER DETAILS INCLUDED IN RETAINING WALL PLANS. SEE SHEETS RW-0 TO RW-21.

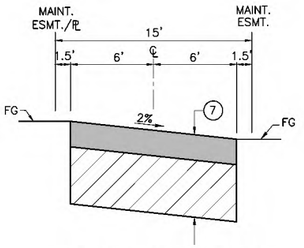
(25) — CONSTRUCT REINFORCED CONCRETE RETAINING WALL TYPE 3 PER SPPWC STD. PLAN NO. 612-3.

(27) — CONSTRUCT LANDSCAPING IMPROVEMENTS PER LANDSCAPING PLANS INCLUDED HEREIN. SEE SHEETS L-0 TO L-7.

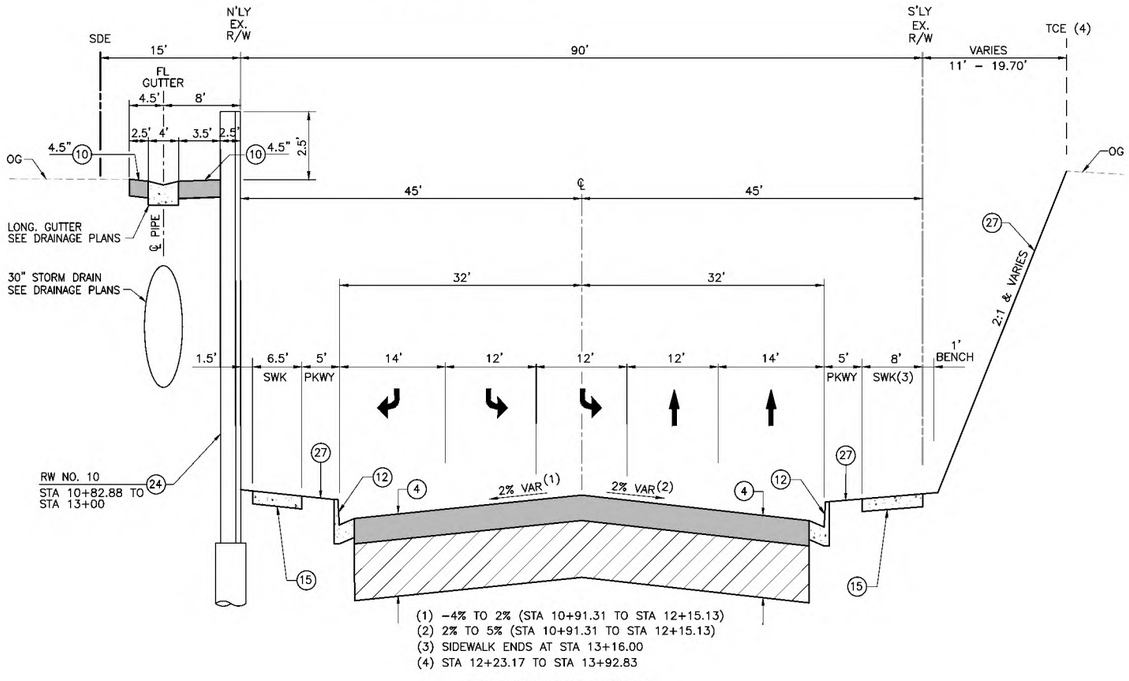


(1) END SWK AT STA 16+39.41

TYPICAL SECTION
HOWELL AVE
STA 14+50.00 TO STA 17+04.02



TYPICAL SECTION
MAINTENANCE ROAD
NORTH OF WRIGHT CIRCLE



(1) -4% TO 2% (STA 10+91.31 TO STA 12+15.13)
(2) 2% TO 5% (STA 10+91.31 TO STA 12+15.13)
(3) SIDEWALK ENDS AT STA 13+16.00
(4) STA 12+23.17 TO STA 13+92.83

TYPICAL SECTION
HOWELL AVENUE
STATE COLLEGE BLVD TO STA 14+50.00

TYPICAL SECTION
STADIUM CROSSING
STATE COLLEGE BLVD TO STA 12+14.55

R709-ST COLLEGE GRADE SEPARATION

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HDR Engineering, Inc.

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REVISIONS				
NO.	DATE	DESCRIPTION	ENGR.	APPROV.

REFERENCES

FOR NOTES TO CONTRACTOR SEE PLAN XXXXX
FOR STANDARD DETAILS SEE:

STREET PLAN NO's: XXX-XXX | STRIPING PLAN NO's: XXX-XXX
DIST. MAP NO. 107, 117 | BENCH MARK NO. 12B-14 | ELEVATION: 161.41'
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SCALE: NTS | DESIGNED BY: MC | REVIEWED BY: LN

REGISTERED PROFESSIONAL ENGINEER — MARC P. COOLEY — No. 54905 Exp. 6-30-14 — CIVIL — STATE OF CALIFORNIA

PLAN PREPARED BY:

PRINCIPAL ENGINEER

#54905 R.C.E. No. DATE

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TYPICAL SECTION PLAN
STATE COLLEGE GRADE SEPARATION
HOWELL AVE, STADIUM CROSSING, PENSKE & STONE DWY

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS

ACCOUNT NUMBER R709

SHEET OF

PLAN NUMBER R-5

CONSTRUCTION NOTES - ROADWAY

(1) — PROTECT IN PLACE.

(5) — CONSTRUCT 5"AC OVER 4.5"AB PAVEMENT SECTION.

(8) — RECONSTRUCT AC PAVEMENT WITHIN PARKING AREA, 3"AC OVER 4"AB.

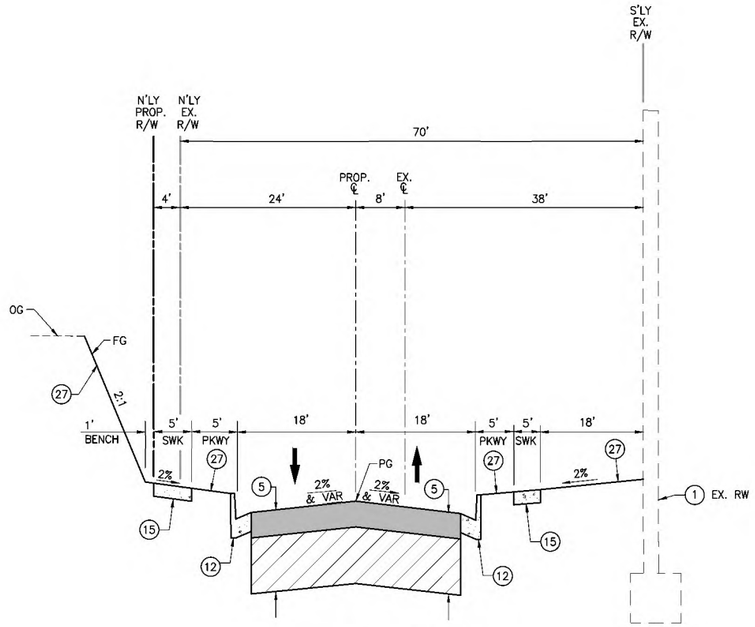
(12) — CONSTRUCT TYPE A CURB AND GUTTER (8"CF) PER CITY OF ANAHEIM STD. DETAIL NO. 120.

(15) — CONSTRUCT PCC SIDEWALK PER CITY OF ANAHEIM STD. DETAIL NO. 110-B WITH PLATINUM TRIANGLE SCORING PATTERN PER CITY OF ANAHEIM STD. DETAIL NO. 118.

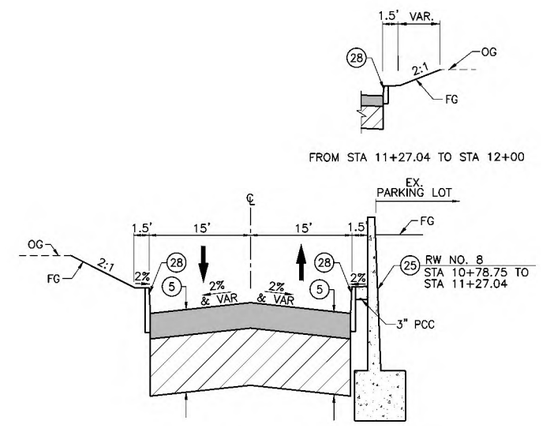
(25) — CONSTRUCT REINFORCED CONCRETE RETAINING WALL TYPE 3 PER SPPWC STD. PLAN NO. 612-3.

(27) — CONSTRUCT LANDSCAPING IMPROVEMENTS PER LANDSCAPING PLANS INCLUDED HEREIN. SEE SHEETS L-0 TO L-7.

(28) — CONSTRUCT A1-150 CURB PER SPPWC STD. PLAN NO. 120-2.

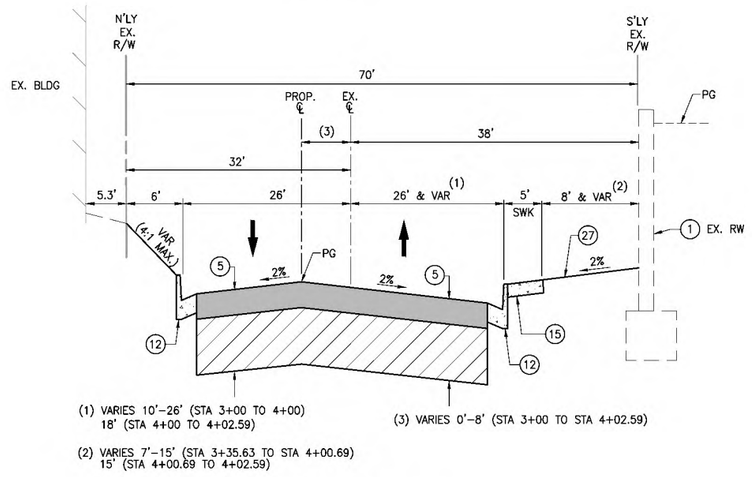


TYPICAL SECTION
WRIGHT CIRCLE
FROM STA 04+02.59
TO STA 06+94.28



FROM STA 11+27.04 TO STA 12+00

TYPICAL SECTION
PENSKE SOUTHERLY DRIVEWAY
FROM STA 10+78.75 TO STA 12+00

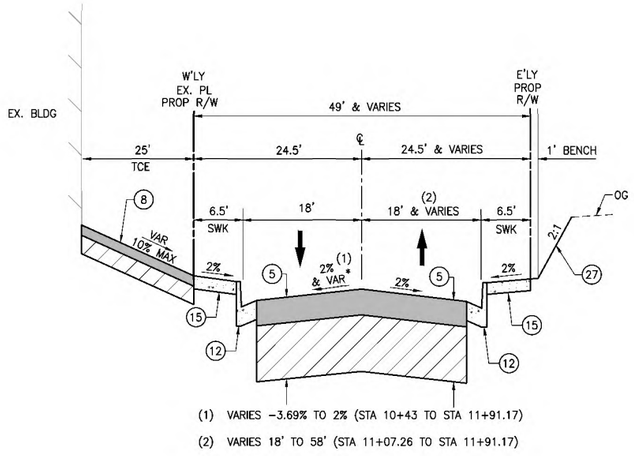


(1) VARIES 10'-26' (STA 3+00 TO 4+00)
18' (STA 4+00 TO 4+02.59)

(2) VARIES 7'-15' (STA 3+35.63 TO STA 4+00.69)
15' (STA 4+00.69 TO 4+02.59)

(3) VARIES 0'-8' (STA 3+00 TO STA 4+02.59)

TYPICAL SECTION
WRIGHT CIRCLE
FROM STA 2+82.12 TO STA 04+02.59



(1) VARIES -3.69% TO 2% (STA 10+43 TO STA 11+91.17)

(2) VARIES 18' TO 58' (STA 11+07.26 TO STA 11+91.17)

TYPICAL SECTION
ACCESS ROAD
FROM STA 10+00 WRIGHT CIRCLE TO 11+91.17

35% SUBMITTAL (NOT FOR CONSTRUCTION)

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HDR — HDR Engineering, Inc.

REVISIONS				
NO.	DATE	DESCRIPTION	ENGR.	APPROV.

REFERENCES	
FOR NOTES TO CONTRACTOR SEE PLAN	XXXXX
FOR STANDARD DETAILS SEE:	
STREET PLAN NO's: XXX-XXX	STRIPING PLAN NO's: XXX-XXX
DIST. MAP NO. 107, 117	BENCH MARK NO. 128-14 ELEVATION: 161.41'
BASIS OF BEARING: CALIFORNIA STATE PLANE ZONE 6 U.S. SURVEY FEET, NAD83 (2007.00) AS DETERMINED BY STATIC GPS SURVEY FROM ORANGE COUNTY PUBLIC WORKS CONTINUOUS GPS STATIONS DESIGNATED OEOC AND CCCS	

SCALE: NTS | DESIGNED BY: MC | REVIEWED BY: LN

REGISTERED PROFESSIONAL ENGINEER — MARC P. COOLEY — No. 54905 Exp. 6-30-14 — CIVIL — STATE OF CALIFORNIA

PLAN PREPARED BY:

PRINCIPAL ENGINEER

#54905 R.C.E. No. — DATE

CITY OF ANAHEIM — CALIFORNIA — FOUNDED 1857

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS
200 SOUTH ANAHEIM BLVD. #276
ANAHEIM, CA 92805
(714) 765-5176
www.anaheim.net

TYPICAL SECTION PLAN
STATE COLLEGE GRADE SEPARATION
WRIGHT CIRCLE & ACCESS ROAD

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS

ACCOUNT NUMBER R709

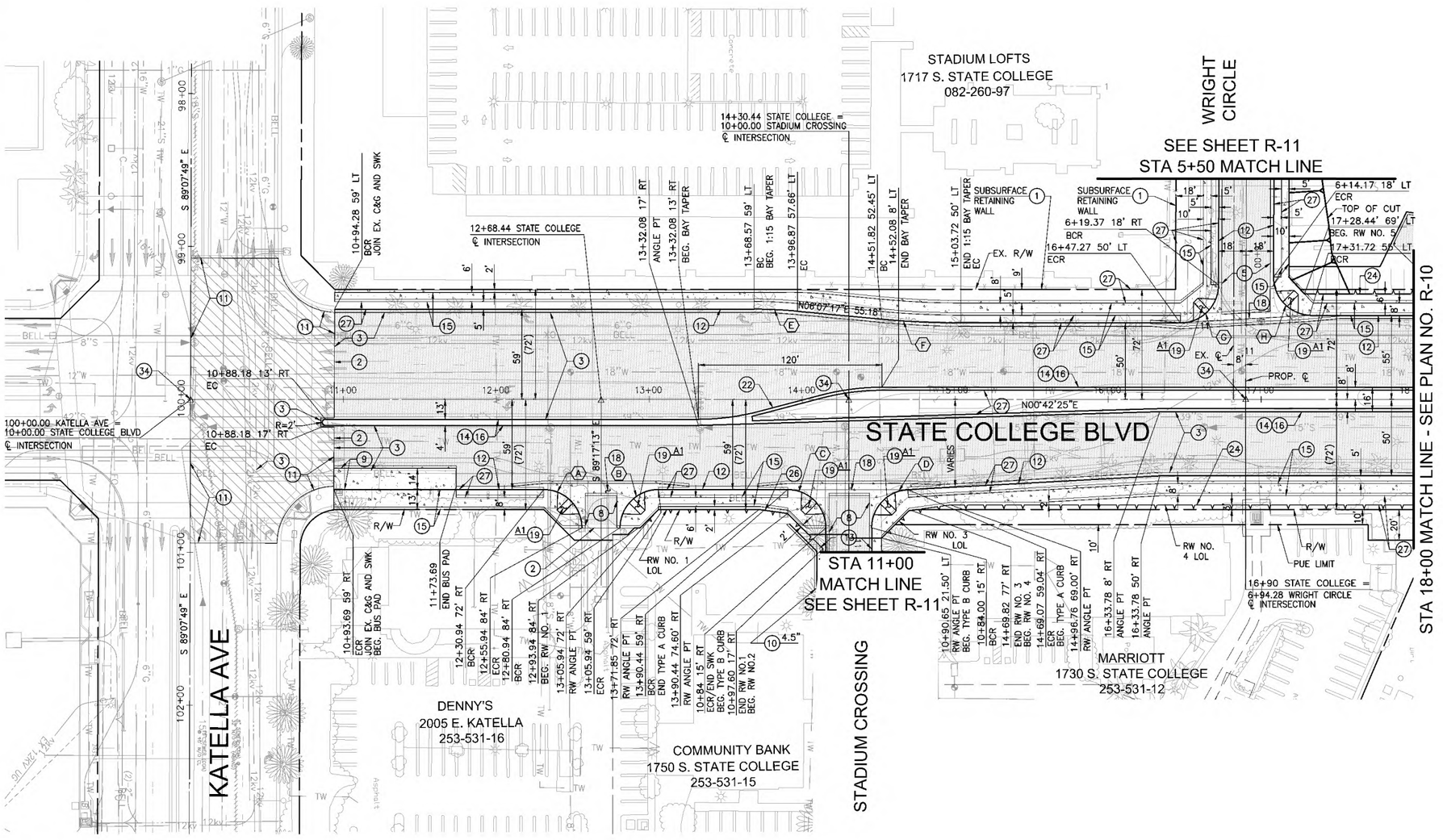
SHEET OF

PLAN NUMBER R-6

R709-ST COLLEGE GRADE SEPARATION

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CURVE DATA				
⬡	DELTA	RADIUS	LENGTH	TANGENT
A	90°00'00"	25.00'	39.27'	25.00'
B	90°00'00"	25.00'	39.27'	25.00'
C	90°00'00"	25.00'	39.27'	25.00'
D	86°51'36"	25.00'	37.90'	23.67'
E	05°24'36"	300.00'	28.35'	14.19'
F	05°25'12"	550.00'	51.98'	26.01'
G	89°50'24"	25.00'	39.20'	24.93'
H	90°09'36"	25.00'	39.34	25.07'



CONSTRUCTION NOTES - ROADWAY

1. PROTECT IN PLACE.
2. SAWCUT EXISTING PAVEMENT.
3. CONSTRUCT 8" AC OVER 7.5" AB PAVEMENT SECTION.
5. CONSTRUCT 5" AC OVER 4.5" AB PAVEMENT SECTION.
8. RECONSTRUCT AC PAVEMENT WITHIN PARKING AREA, 3" AC OVER 4" AB.
9. CONSTRUCT 12" THICK PCC BUS PAD MONOLITHIC WITH ADJACENT CURB AND GUTTER OVER 95% COMPACTED SUBGRADE PER DETAIL ON SHEET R-12.
10. CONSTRUCT FULL DEPTH AC PAVEMENT OVER 95% COMPACTED SUBGRADE. DEPTH PER PLAN.
11. GRIND AND OVERLAY EXISTING PAVEMENT TO A DEPTH OF 2" BELOW FINISHED SURFACE AND CONSTRUCT MINIMUM 2" AC PAVEMENT SECTION.
12. CONSTRUCT TYPE A CURB AND GUTTER (8"CF) PER CITY OF ANAHEIM STD. DETAIL NO. 120.
13. CONSTRUCT TYPE B CURB AND GUTTER (6"CF) PER CITY OF ANAHEIM STD. DETAIL NO. 120.
14. CONSTRUCT TYPE D CURB (8"CF) PER CITY OF ANAHEIM STD. DETAIL NO. 120.
15. CONSTRUCT PCC SIDEWALK PER CITY OF ANAHEIM STD. DETAIL NO. 110-B WITH PLATINUM TRIANGLE SCORING PATTERN PER CITY OF ANAHEIM STD. DETAIL NO. 118.
16. CONSTRUCT MEDIAN STAMPED "SLATE" PATTERN CONCRETE HARDSCAPE IMPROVEMENTS PER CITY OF ANAHEIM STD. DETAIL NO. 143.
18. CONSTRUCT CROSS GUTTER PER CITY OF ANAHEIM STD. DETAIL NO. 121-A.
19. CONSTRUCT CURB RAMP PER SPPWC STD. PLAN 111-5, CASE AND TYPE PER PLAN.
22. CONSTRUCT BAY TAPER, LENGTH PER PLAN, PER SPPWC STD. PLAN NO. 140-3.
24. CONSTRUCT SOLDIER PILE WALL PER DETAILS INCLUDED IN RETAINING WALL PLANS. SEE SHEETS RW-0 TO RW-21.
26. CONSTRUCT REINFORCED CONCRETE RETAINING WALL TYPE 6 PER SPPWC STD. PLAN NO. 615-4.
27. CONSTRUCT LANDSCAPING IMPROVEMENTS PER LANDSCAPING PLANS INCLUDED HEREIN. SEE SHEETS L-0 TO L-7.
34. INSTALL SURVEY WELL MONUMENT PER ANAHEIM STD. PLAN NO. 641A.

NOTES:

1. ULTIMATE RIGHT OF WAY LINES SHOWN ONLY FOR CLARITY. SEE RIGHT OF WAY NEEDS PLANS FOR DETAILS REGARDING EXISTING RIGHT OF WAY LIMITS AND PROPOSED PROPERTY ACQUISITIONS.
2. DETAILS ON PARKING LOT MODIFICATIONS NEEDED TO ACCOMMODATE DRIVEWAY RECONSTRUCTION TO BE DEFERRED TO NEXT PROJECT PHASE.
3. DETAILS ON THE LOCATION, TYPE, AND SIZE OF EXISTING UTILITIES, SEE UTILITY PLANS.
4. TRANSITION FROM TYPE A TO TYPE B CURB & GUTTER LOCATED WITHIN CURB RETURN.
5. FOR CATCH BASIN LOCATIONS, SEE SHEETS SD-1 AND SD-2
6. BASE MAPPING REFLECTS PROPOSED IMPROVED CONDITION ALONG KATELLA AVE PER UPCOMING WIDENING PROJECT.
7. FOR RETAINING WALL DETAILS, SEE SHEETS RW-0 TO RW-15.

LEGEND

- PROPOSED PCC PAVEMENT AREA
- AC GRIND & OVERLAY AREA
- PROPOSED AC PAVEMENT AREA
- (#)X — X = CASE TYPE

R709-ST COLLEGE GRADE SEPARATION

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HDR Engineering, Inc.

35% SUBMITTAL (NOT FOR CONSTRUCTION)

REVISIONS				
NO.	DATE	DESCRIPTION	ENGR.	APPROV.

REFERENCES	
FOR NOTES TO CONTRACTOR SEE PLAN	XXXXX
FOR STANDARD DETAILS SEE:	
STREET PLAN NO's: XXX-XXX	STRIPING PLAN NO's: XXX-XXX
DIST. MAP NO. 107, 117	BENCH MARK NO. 12B-14 ELEVATION: 161.41'
BASIS OF BEARING: CALIFORNIA STATE PLANE ZONE 6 U.S. SURVEY FEET, NAD83 (2007.00) AS DETERMINED BY STATIC GPS SURVEY FROM ORANGE COUNTY PUBLIC WORKS CONTINUOUS GPS STATIONS DESIGNATED OEOC AND CCCS	

SCALE: 1"=40' | DESIGNED BY: MC | REVIEWED BY: LN

REGISTERED PROFESSIONAL ENGINEER — MARC P. COOLEY — No. 54905 Exp. 6-30-14 — CIVIL — STATE OF CALIFORNIA

PLAN PREPARED BY:

PRINCIPAL ENGINEER

R.C.E. No. | DATE

CITY OF ANAHEIM — FOUNDED 1857

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS
200 SOUTH ANAHEIM BLVD. #276
ANAHEIM, CA 92805
(714) 765-5176
www.anaheim.net

ROADWAY PLAN
STATE COLLEGE GRADE SEPARATION
STATE COLLEGE BLVD-STA 10+00 TO STA 18+00

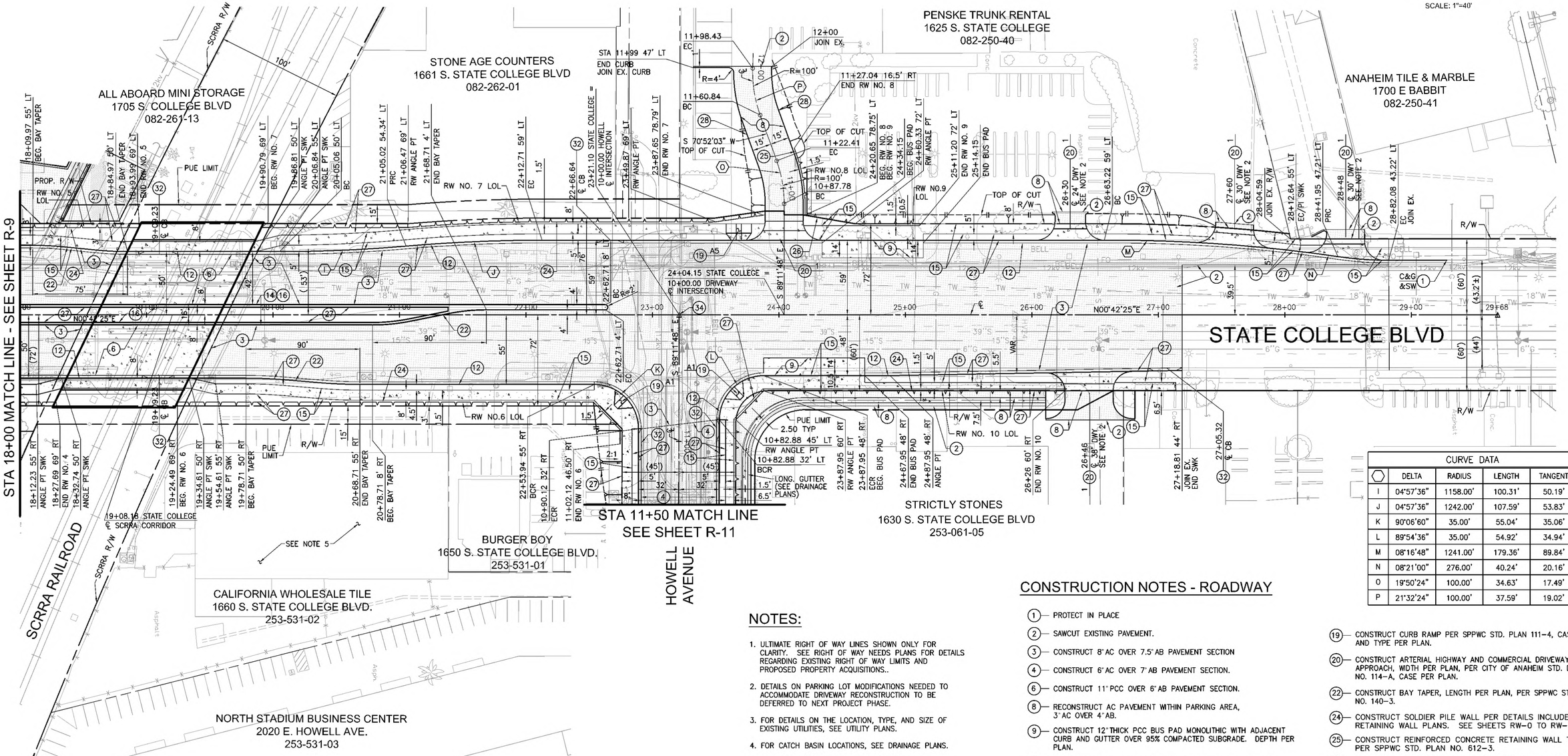
CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS

ACCOUNT NUMBER R709

SHEET OF

PLAN NUMBER R-9

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CURVE DATA				
	DELTA	RADIUS	LENGTH	TANGENT
I	04°57'36"	1158.00'	100.31'	50.19'
J	04°57'36"	1242.00'	107.59'	53.83'
K	90°06'60"	35.00'	55.04'	35.06'
L	89°54'36"	35.00'	54.92'	34.94'
M	08°16'48"	1241.00'	179.36'	89.84'
N	08°21'00"	276.00'	40.24'	20.16'
O	19°50'24"	100.00'	34.63'	17.49'
P	21°32'24"	100.00'	37.59'	19.02'

NOTES:

1. ULTIMATE RIGHT OF WAY LINES SHOWN ONLY FOR CLARITY. SEE RIGHT OF WAY NEEDS PLANS FOR DETAILS REGARDING EXISTING RIGHT OF WAY LIMITS AND PROPOSED PROPERTY ACQUISITIONS..
2. DETAILS ON PARKING LOT MODIFICATIONS NEEDED TO ACCOMMODATE DRIVEWAY RECONSTRUCTION TO BE DEFERRED TO NEXT PROJECT PHASE.
3. FOR DETAILS ON THE LOCATION, TYPE, AND SIZE OF EXISTING UTILITIES, SEE UTILITY PLANS.
4. FOR CATCH BASIN LOCATIONS, SEE DRAINAGE PLANS.
5. PROPOSED DETENTION BASIN AND ASSOCIATED IMPROVEMENTS NOT SHOWN. SEE DRAINAGE PLANS FOR DETAILS.

LEGEND

PROPOSED PCC PAVEMENT AREA

PROPOSED AC PAVEMENT AREA

(#X) X = CASE TYPE

CONSTRUCTION NOTES - ROADWAY

1. PROTECT IN PLACE
2. SAWCUT EXISTING PAVEMENT.
3. CONSTRUCT 8"AC OVER 7.5"AB PAVEMENT SECTION
4. CONSTRUCT 6"AC OVER 7"AB PAVEMENT SECTION.
6. CONSTRUCT 11"PCC OVER 6"AB PAVEMENT SECTION.
8. RECONSTRUCT AC PAVEMENT WITHIN PARKING AREA, 3"AC OVER 4"AB.
9. CONSTRUCT 12"THICK PCC BUS PAD MONOLITHIC WITH ADJACENT CURB AND GUTTER OVER 95% COMPACTED SUBGRADE. DEPTH PER PLAN.
12. CONSTRUCT TYPE A CURB AND GUTTER (8"CF) PER CITY OF ANAHEIM STD. DETAIL NO. 120.
14. CONSTRUCT TYPE D CURB (8"CF) PER CITY OF ANAHEIM STD. DETAIL NO. 120.
15. CONSTRUCT PCC SIDEWALK PER CITY OF ANAHEIM STD. DETAIL NO. 110-B WITH PLATINUM TRIANGLE SCORING PATTERN PER CITY OF ANAHEIM STD. DETAIL NO. 118.
16. CONSTRUCT MEDIAN STAMPED "SLATE" PATTERN CONCRETE HARDSCAPE IMPROVEMENTS PER CITY OF ANAHEIM STD. DETAIL NO. 143.
19. CONSTRUCT CURB RAMP PER SPPWC STD. PLAN 111-4, CASE AND TYPE PER PLAN.
20. CONSTRUCT ARTERIAL HIGHWAY AND COMMERCIAL DRIVEWAY APPROACH, WIDTH PER PLAN, PER CITY OF ANAHEIM STD. DETAIL NO. 114-A, CASE PER PLAN.
22. CONSTRUCT BAY TAPER, LENGTH PER PLAN, PER SPPWC STD. PLAN NO. 140-3.
24. CONSTRUCT SOLDIER PILE WALL PER DETAILS INCLUDED IN RETAINING WALL PLANS. SEE SHEETS RW-0 TO RW-21.
25. CONSTRUCT REINFORCED CONCRETE RETAINING WALL TYPE 3 PER SPPWC STD. PLAN NO. 612-3.
26. CONSTRUCT REINFORCED CONCRETE RETAINING WALL TYPE 6 PER SPPWC STD. PLAN NO. 615-4.
27. CONSTRUCT LANDSCAPING IMPROVEMENTS PER LANDSCAPING PLANS INCLUDED HEREIN. SEE SHEETS L-0 TO L-7.
28. CONSTRUCT A1-150 CURB PER SPPWC STD. PLAN NO. 120-2.
32. CONSTRUCT LOCAL DEPRESSION PER CITY OF ANAHEIM STD. DETAIL NO.313, CASE A.
34. INSTALL SURVEY WELL MONUMENT PER ANAHEIM STD. PLAN NO. 641-A.

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HDR Engineering, Inc.

35% SUBMITTAL (NOT FOR CONSTRUCTION)

REVISIONS				
NO.	DATE	DESCRIPTION	ENGR.	APPROV.

REFERENCES	
FOR NOTES TO CONTRACTOR SEE PLAN	XXXXX
FOR STANDARD DETAILS SEE:	
STREET PLAN NO's: XXX-XXX	STRIPING PLAN NO's: XXX-XXX
DIST. MAP NO. 107, 117	BENCH MARK NO. 12B-14 ELEVATION: 161.41'
BASIS OF BEARING: CALIFORNIA STATE PLANE ZONE 6 U.S. SURVEY FEET, NAD83 (2007.00) AS DETERMINED BY STATIC GPS SURVEY FROM ORANGE COUNTY PUBLIC WORKS CONTINUOUS GPS STATIONS DESIGNATED OEOC AND CCCS	

SCALE: 1"=40' | DESIGNED BY: MC | REVIEWED BY: LN

REGISTERED PROFESSIONAL ENGINEER MARC P. COOLEY No. 54905 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA

PLAN PREPARED BY:

PRINCIPAL ENGINEER

#54905 R.C.E. No. | DATE

CITY OF ANAHEIM CALIFORNIA FOUNDED 1857

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS
200 SOUTH ANAHEIM BLVD. #276
ANAHEIM, CA 92805
(714) 765-5176
www.anaheim.net

ROADWAY PLAN
STATE COLLEGE GRADE SEPARATION
STATE COLLEGE BLVD-STA 18+00 TO STA 28+82.08

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS

ACCOUNT NUMBER R709

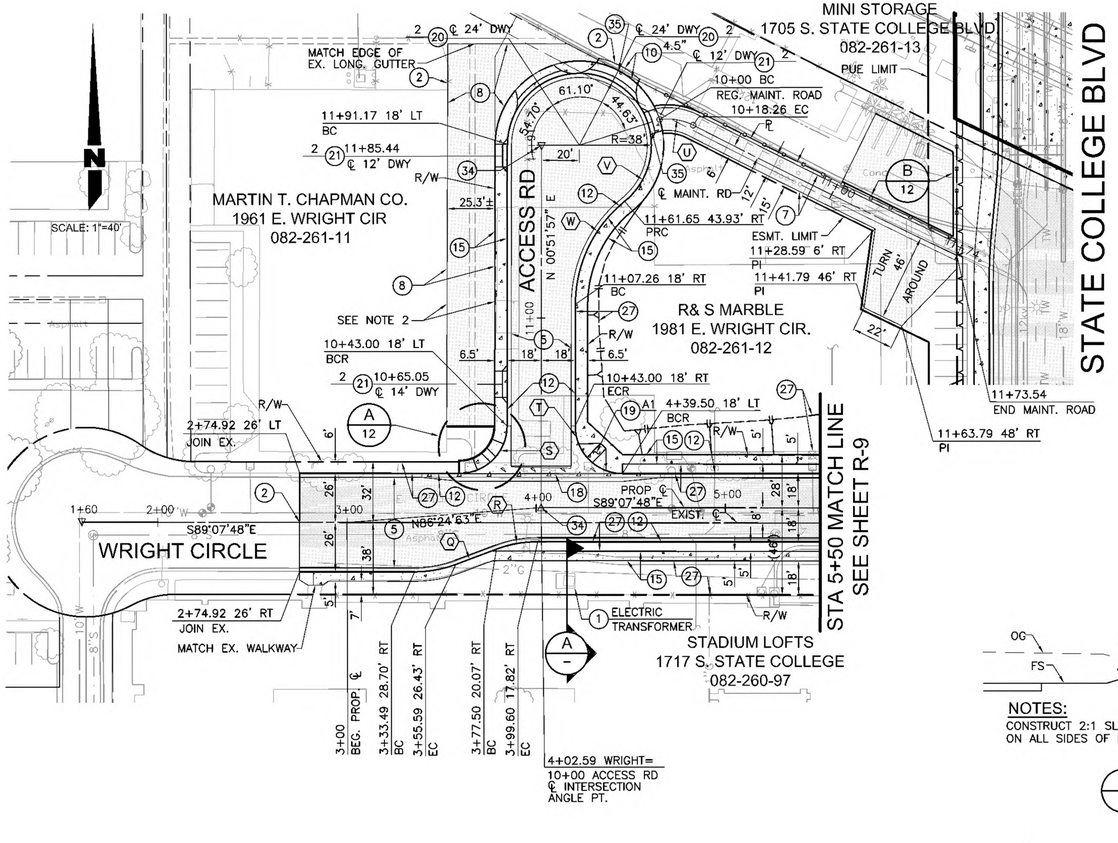
SHEET OF

PLAN NUMBER R-10

R709-ST COLLEGE GRADE SEPARATION

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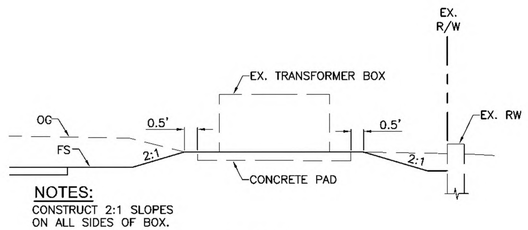
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CURVE DATA				
⬡	DELTA	RADIUS	LENGTH	TANGENT
Q	20°37'12"	62.00'	22.31'	11.28'
R	20°37'12"	62.00'	22.31'	11.28'
S	90°00'00"	25.00'	39.27'	25.00'
T	90°00'00"	25.00'	39.27'	25.00'
U	34°52'48"	30.00'	18.26'	9.42'
V	230°58'48"	38.00'	19.26'	–
W	50°58'48"	70.00'	62.28'	33.37'
X	90°00'00"	15.00'	23.56'	15.00'
Y	134°18'36"	10.00'	23.44'	23.73'
Z	44°17'24"	10.00'	7.73'	4.07'

NOTES:

1. ULTIMATE RIGHT OF WAY LINES SHOWN ONLY FOR CLARITY. SEE RIGHT OF WAY NEEDS PLANS FOR DETAILS REGARDING EXISTING RIGHT OF WAY LIMITS AND PROPOSED PROPERTY ACQUISITIONS.
2. DETAILS ON PARKING LOT MODIFICATIONS NEEDED TO ACCOMMODATE DRIVEWAY RECONSTRUCTION TO BE DEFERRED TO NEXT PROJECT PHASE.
3. FOR DETAILS ON THE LOCATION, TYPE, AND SIZE OF EXISTING UTILITIES, SEE UTILITY PLANS.
4. FOR CATCH BASIN LOCATIONS, SEE DRAINAGE PLANS.



NOTES:
CONSTRUCT 2:1 SLOPES ON ALL SIDES OF BOX.

NO SCALE

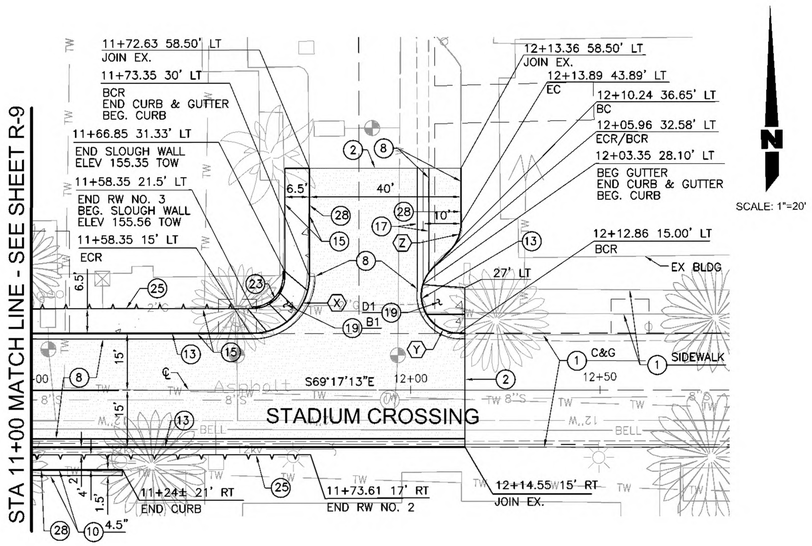
A/– SECTION A-A

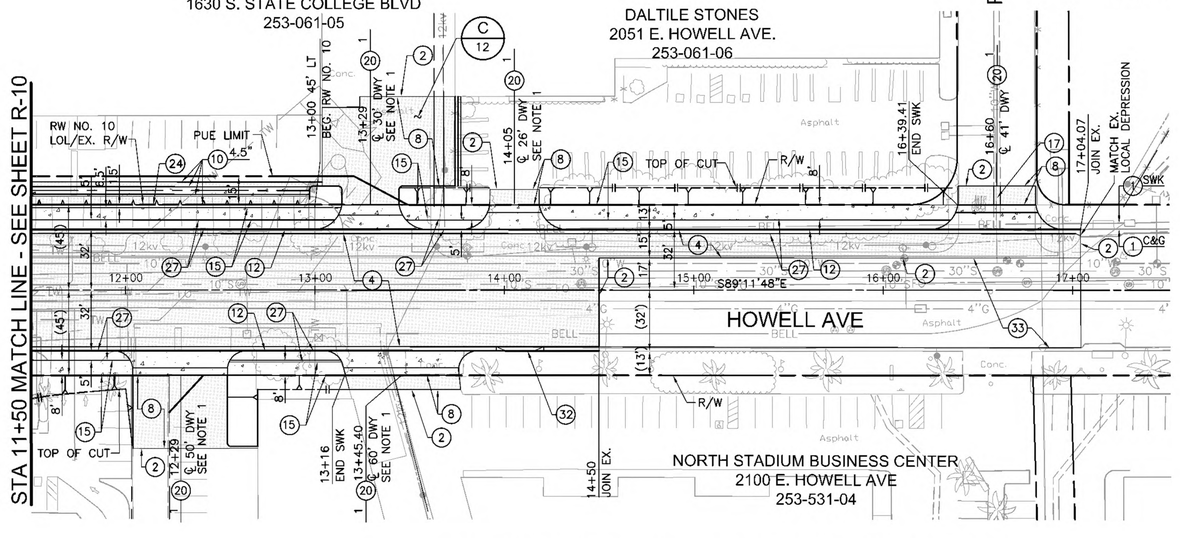
CONSTRUCTION NOTES - ROADWAY

1. PROTECT IN PLACE.
2. SAWCUT EXISTING PAVEMENT.
4. CONSTRUCT 6"AC OVER 7"AB PAVEMENT SECTION.
5. CONSTRUCT 5"AC OVER 4.5"AB PAVEMENT SECTION.
7. CONSTRUCT 3.5"AC OVER 4"AB PAVEMENT SECTION.
8. RECONSTRUCT AC PAVEMENT WITHIN PARKING AREA, 3"AC OVER 4"AB.
10. CONSTRUCT FULL DEPTH AC PAVEMENT OVER 95% COMPACTED SUBGRADE. DEPTH PER PLAN.
12. CONSTRUCT TYPE A CURB AND GUTTER (8"CF) PER CITY OF ANAHEIM STD. DETAIL NO. 120.
13. CONSTRUCT TYPE B CURB AND GUTTER (6"CF) PER CITY OF ANAHEIM STD. DETAIL NO. 120.
15. CONSTRUCT PCC SIDEWALK PER CITY OF ANAHEIM STD. DETAIL NO. 110-B WITH PLATINUM TRIANGLE SCORING PATTERN PER CITY OF ANAHEIM STD. DETAIL NO. 118.
17. CONSTRUCT 3'WIDE LONGITUDINAL GUTTER TO MATCH EXISTING WIDTH.
18. CONSTRUCT CROSS GUTTER PER CITY OF ANAHEIM STD. DETAIL NO. 121-A.
19. CONSTRUCT CURB RAMP PER SPPWC STD. PLAN 111-4, CASE AND TYPE PER PLAN.
20. CONSTRUCT ARTERIAL HIGHWAY AND COMMERCIAL DRIVEWAY APPROACH, WIDTH PER PLAN, PER CITY OF ANAHEIM STD. DETAIL NO. 114-A, CASE PER PLAN.
21. CONSTRUCT LOCAL STREET/RESIDENTIAL DRIVEWAY APPROACH, WIDTH PER PLAN, PER CITY OF ANAHEIM STD. DETAIL NO. 115-B, CASE PER PLAN.
23. CONSTRUCT CONCRETE CURB SLOUGH WALL PER CITY OF ANAHEIM STD. DETAIL NO. 623
24. CONSTRUCT SOLDIER PILE WALL PER DETAILS INCLUDED IN RETAINING WALL PLANS. SEE SHEETS RW-0 TO RW-21.
25. CONSTRUCT REINFORCED CONCRETE RETAINING WALL TYPE 3 PER SPPWC STD. PLAN NO. 612-3.
27. CONSTRUCT LANDSCAPING IMPROVEMENTS PER LANDSCAPING PLANS INCLUDED HEREIN. SEE SHEETS L-0 TO L-7.
28. CONSTRUCT A1-150 CURB PER SPPWC STD. PLAN NO. 120-2.
32. CONSTRUCT LOCAL DEPRESSION PER CITY OF ANAHEIM STD. DETAIL NO. 313, CASE A
33. SLURRY SEAL EXISTING PAVEMENT.
34. INSTALL SURVEY WELL MONUMENT PER ANAHEIM STD. PL; AN NO. 641-A.
35. CONSTRUCT ROLLING ACCESS GATE.

LEGEND

- PROPOSED PCC PAVEMENT AREA
- PROPOSED AC PAVEMENT AREA
- (#X) X = CASE TYPE





35% SUBMITTAL (NOT FOR CONSTRUCTION)

DIGALERT — DIAL TOLL FREE 1-800-277-2600 AT LEAST TWO DAYS BEFORE YOU DIG — UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

HDR Engineering, Inc.

REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

REFERENCES

FOR NOTES TO CONTRACTOR SEE PLAN XXXXX
FOR STANDARD DETAILS SEE:
STREET PLAN NO's: XXX-XXX | STRIPING PLAN NO's: XXX-XXX
DIST. MAP NO. 107, 117 | BENCH MARK NO. 12B-14 | ELEVATION: 161.41'
BASIS OF BEARING: CALIFORNIA STATE PLANE ZONE 6 U.S. SURVEY FEET, NAD83 (2007.00) AS DETERMINED BY STATIC GPS SURVEY FROM ORANGE COUNTY PUBLIC WORKS CONTINUOUS GPS STATIONS DESIGNATED OEOC AND CCCS

SCALE: AS SHOWN | DESIGNED BY: MC | REVIEWED BY: LN

REGISTERED PROFESSIONAL ENGINEER — WAYNE P. COOLEY — No. 54905 Exp. 6-30-14 — CIVIL — STATE OF CALIFORNIA

PLAN PREPARED BY:

PRINCIPAL ENGINEER

#54905 R.C.E. No. DATE

CITY OF ANAHEIM CALIFORNIA — FOUNDED 1857

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS
200 SOUTH ANAHEIM BLVD. #276
ANAHEIM, CA 92805
(714) 765-5176
www.anaheim.net

ROADWAY PLAN
STATE COLLEGE GRADE SEPARATION
WRIGHT CIR, STADIUM CROSSING & HOWELL AVE

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS

ACCOUNT NUMBER R709

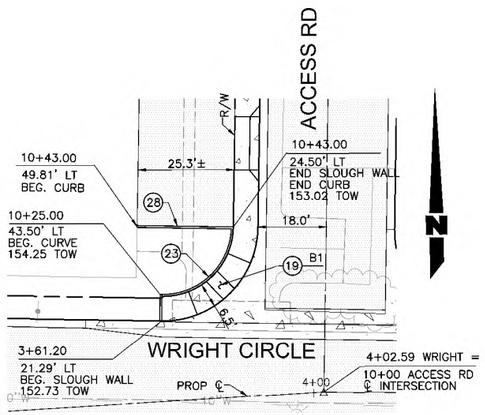
SHEET OF

PLAN NUMBER R-11

R709-ST COLLEGE GRADE SEPARATION

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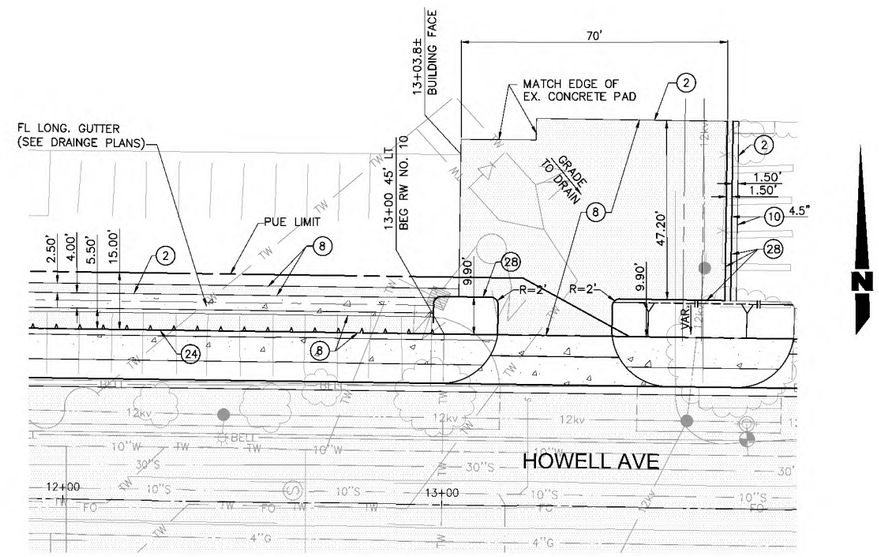
C:\pwworking\aja\d0446853\03-STPL.dwg, WRIGHT CIR, STADIUM CROSSING & HOWELL AVE, 11/22/2013 7:24:41 AM, mamiller



CURB RETURN DETAIL
WRIGHT CIR / ACCESS RD

A / 11

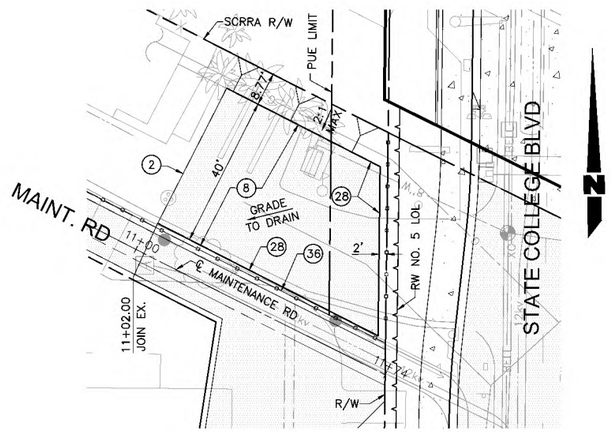
SCALE: 1" = 20'



STRICTLY STONES
PARKING LOT DETAIL

C / 11

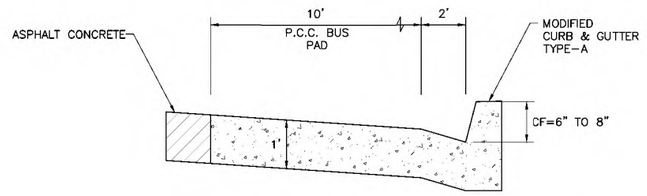
SCALE: 1" = 20'



ALL ABOARD MINI STORAGE
PARKING LOT RECONSTRUCTION

B / 11

SCALE: 1" = 20'



1. CONST. BUS PAD AND MODIFIED C&G MONOLITHICALLY
2. CURB HEIGHT PER PLANS.
3. STRAIGHT GRADE ON FLOW LINE
4. MIN. LENGTH 80 LF.

BUS PAD DETAIL

SCALE: NONE

CONSTRUCTION NOTES - ROADWAY

(2) SAWCUT EXISTING PAVEMENT.

(8) RECONSTRUCT AC PAVEMENT WITHIN PARKING AREA, 3"AC OVER 4"AB.

(10) CONSTRUCT FULL DEPTH AC PAVEMENT OVER 95% COMPACTED SUBGRADE. DEPTH PER PLAN.

(19) CONSTRUCT CURB RAMP PER SPPWC STD. PLAN 111-4, CASE AND TYPE PER PLAN.

(23) CONSTRUCT CONCRETE CURB SOUGH WALL PER CITY OF ANAHEIM STD. DETAIL NO. 623.

(24) CONSTRUCT SOLDIER PILE WALL PER ALL DETAILS INCLUDED IN RETAINING WALL PLANS. SEE SHEETS RW-0 TO RW-21.

(28) CONSTRUCT A1-150 CURB PER SPPWC STD. PLAN NO. 120-1.

(36) CONSTRUCT FENCE.

NOTES:

1. ULTIMATE RIGHT OF WAY LINES SHOWN ONLY FOR CLARITY. SEE RIGHT OF WAY NEEDS PLANS FOR DETAILS REGARDING EXISTING RIGHT OF WAY LIMITS AND PROPOSED PROPERTY ACQUISITIONS..
2. DETAILS ON PARKING LOT MODIFICATIONS NEEDED TO ACCOMMODATE DRIVEWAY RECONSTRUCTION TO BE DEFERRED TO NEXT PROJECT PHASE.

LEGEND

PROPOSED PCC PAVEMENT AREA

PROPOSED AC PAVEMENT AREA

(#)X X = CASE TYPE

R709-ST COLLEGE GRADE SEPARATION

DIGALERT DIAL TOLL FREE 1-800-277-2600 AT LEAST TWO DAYS BEFORE YOU DIG UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

HDR Engineering, Inc.

35% SUBMITTAL (NOT FOR CONSTRUCTION)

REVISIONS				
NO.	DATE	DESCRIPTION	ENGR.	APPROV.

REFERENCES

FOR NOTES TO CONTRACTOR SEE PLAN XXXXX

FOR STANDARD DETAILS SEE:

STREET PLAN NO's: XXX-XXX | STRIPING PLAN NO's: XXX-XXX

DIST. MAP NO. 107, 117 | BENCH MARK NO. 12B-14 | ELEVATION: 161.41'

BASIS OF BEARING: CALIFORNIA STATE PLANE ZONE 6 U.S. SURVEY FEET, NAD83 (2007.00) AS DETERMINED BY STATIC GPS SURVEY FROM ORANGE COUNTY PUBLIC WORKS CONTINUOUS GPS STATIONS DESIGNATED OEOC AND CCCS

SCALE: 1"=20' | DESIGNED BY: MC | REVIEWED BY: LN

REGISTERED PROFESSIONAL ENGINEER MARC P. COOLEY No. 54905 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA

PLAN PREPARED BY:

PRINCIPAL ENGINEER

R.C.E. No. DATE

CITY OF ANAHEIM CALIFORNIA FOUNDED 1857

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS
200 SOUTH ANAHEIM BLVD. #276
ANAHEIM, CA 92805
(714) 765-5176
www.anaheim.net

ROADWAY PLAN
STATE COLLEGE GRADE SEPARATION
ROADWAY DETAIL A, B & C

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS

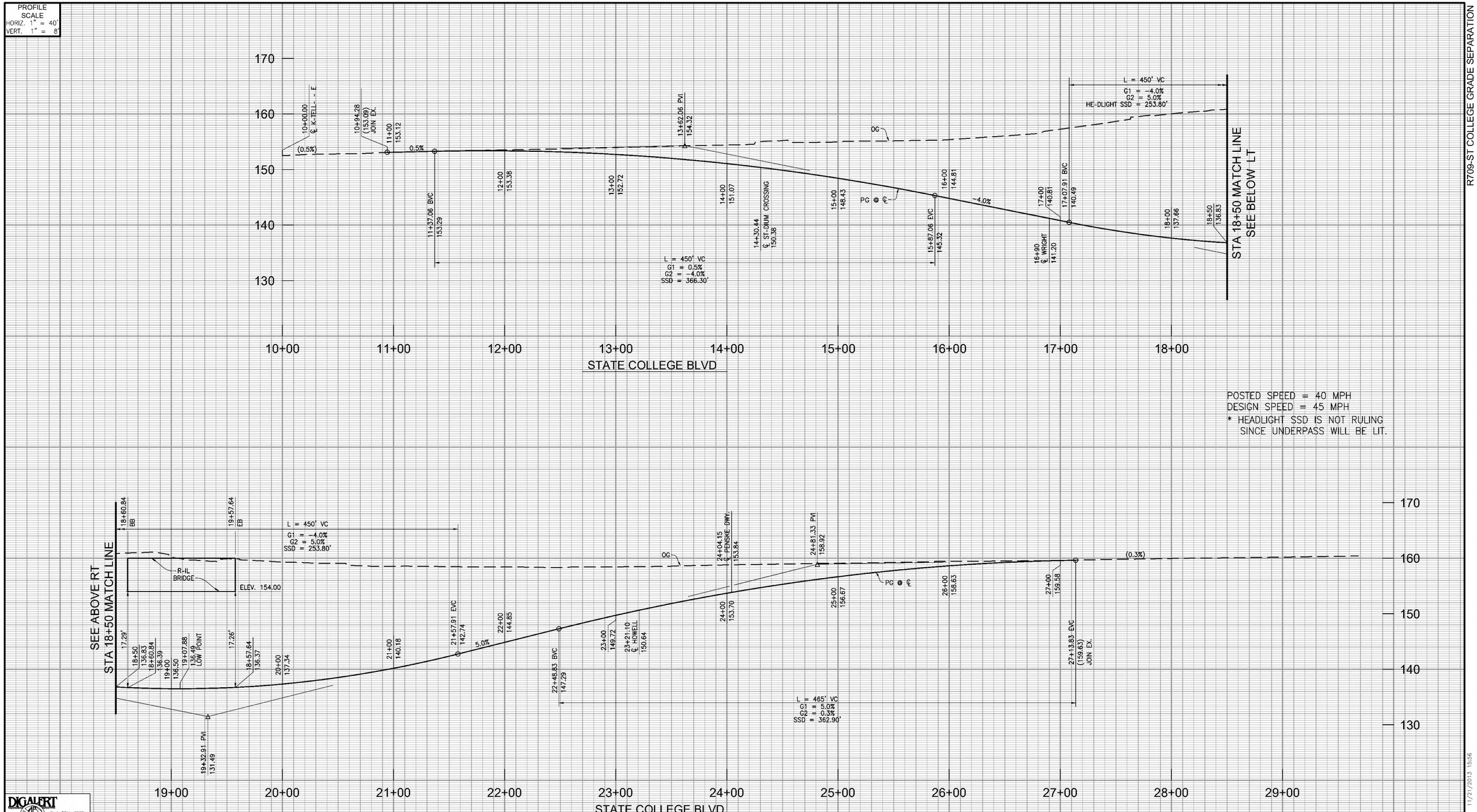
ACCOUNT NUMBER R709

SHEET OF

PLAN NUMBER R-12

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PROFILE
SCALE
HORIZ. 1" = 40'
VERT. 1" = 8'



POSTED SPEED = 40 MPH
DESIGN SPEED = 45 MPH
* HEADLIGHT SSD IS NOT RULING SINCE UNDERPASS WILL BE LIT.

DIGALERT
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-T LE-ST TWO D-YS BEFORE YOU DIG
-UNDERGROUND SER-CE -EMT OF SOUTHERN C-LIFORN-

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R709-ST COLLEGE GRADE SEPARATION

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REVISIONS				
NO.	D-TE	DESCRIPTION	ENGR.	-PPROV.

REFERENCES

FOR NOTES TO CONTR-CTOR SEE PL-N XXXXX
FOR ST-ND-RD DET-ILS SEE:

STREET PL-N NO's: XXX-XXX | STRIPING PL-N NO's: XXX-XXX
DIST. M-P NO. 107, 117 | BENCH M-RK NO. 12B-14 | ELEV-TION: 161.41'
B-SIS OF BE-RING: CALIFORNIA STATE PLANE ZONE 6 U.S. SURVEY FEET, NAD83 (2007.00) AS DETERMINED BY STATIC GPS SURVEY FROM ORANGE COUNTY PUBLIC WORKS CONTINUOUS GPS STATIONS DESIGNATED DEOC AND CCCS

SC-LE: 1"=40' | DESIGNED BY: MC | REVIEWED BY: LN

REGISTERED PROFESSIONAL ENGINEER MARK P. COOLEY No. 54905 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA

PL-N PREP-RED BY:

PRINCIP-L ENGINEER

R.C.E. No. D-TE

CITY OF ANAHEIM CALIFORNIA FOUNDED 1857

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS
200 SOUTH ANAHEIM BLVD. #276
ANAHEIM, CA 92805
(714) 765-5176
www.anaheim.net

STREET IMPROVEMENT
STATE COLLEGE GRADE SEPARATION
ROADWAY PROFILE - STATE COLLEGE BLVD

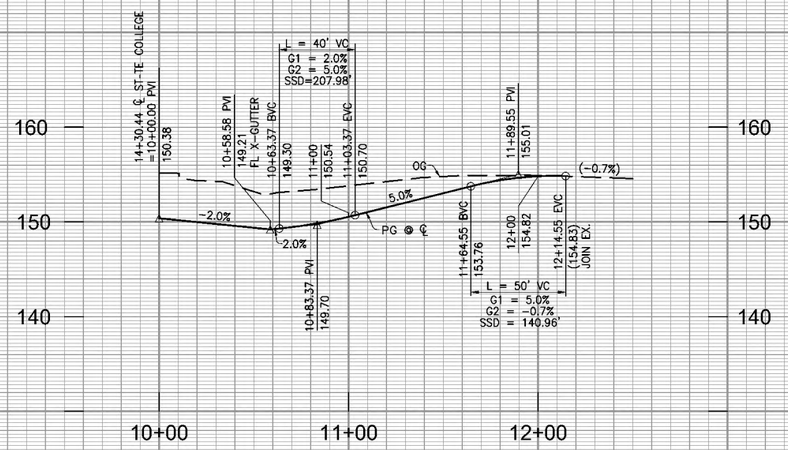
CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS

ACCOUNT NUMBER
R709

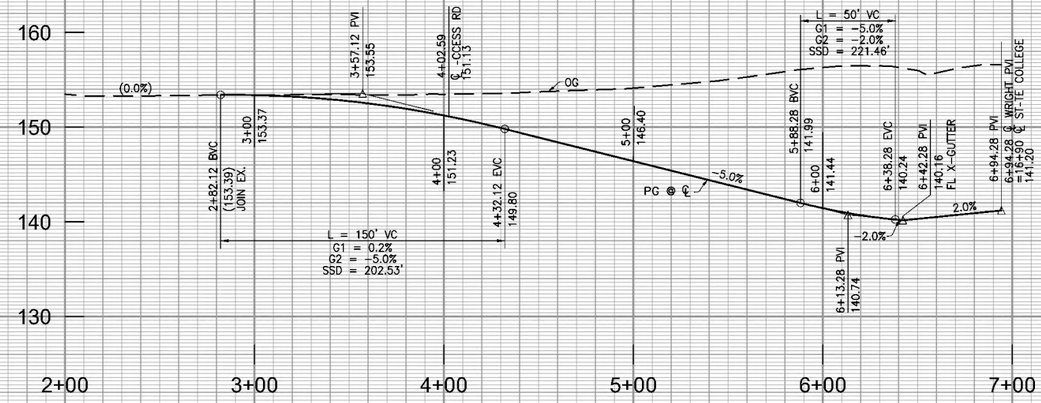
SHEET OF

PLAN NUMBER R-16

PROFILE
SCALE
HORIZ. 1" = 40'
VERT. 1" = 8'

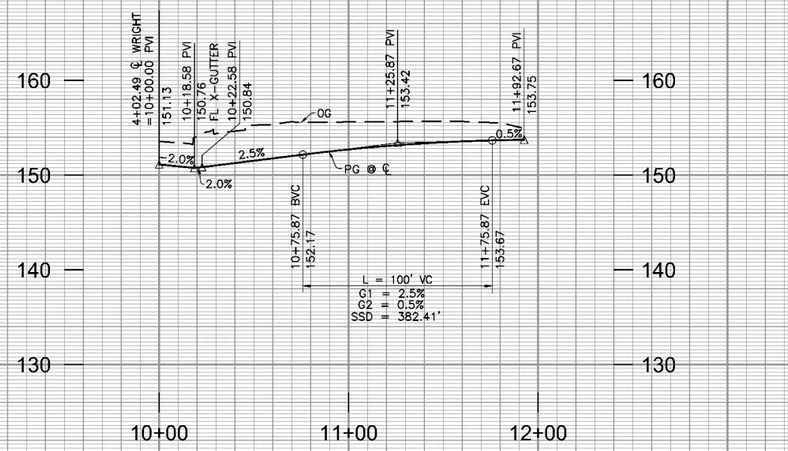


STADIUM CROSSING



WRIGHT CIRCLE

POSTED SPEED = 25 MPH
DESIGN SPEED = 30 MPH



ACCESS ROAD

POSTED SPEED = 25 MPH
DESIGN SPEED = 30 MPH

35% SUBMITTAL (NOT FOR CONSTRUCTION)

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BEFORE YOU DIG
UNDERGROUND SER-CE -LERT OF SOUTHERN C-LIFORN-

R709-ST COLLEGE GRADE SEPARATION

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REVISIONS				
NO.	D-TE	DESCRIPTION	ENGR.	-PPROV.

REFERENCES
FOR NOTES TO CONTR-CTOR SEE PL-N XXXXX
FOR ST-ND-RD DET-ILS SEE:
STREET PL-N NO's: XXX-XXX / STRIPING PL-N NO's: XXX-XXX
DIST. M-P NO. 107, 117 / BENCH M-RK NO. 12B-14 / ELEV-TION: 161.41'
B-SIS OF BE-RING: CALIFORNIA STATE PLANE ZONE 6 U.S. SURVEY FEET, NAD83 (2007.00) AS DETERMINED BY STATIC GPS SURVEY FROM ORANGE COUNTY PUBLIC WORKS CONTINUOUS GPS STATIONS DESIGNATED OEOC AND CCCS

SC-LE: 1"=40' | DESIGNED BY: MC | REVIEWED BY: LN

REGISTERED PROFESSIONAL ENGINEER — MARC P. COOLEY — No. 54905 Exp. 6-30-14 — CIVIL — STATE OF CALIFORNIA

PL-N PREP-RED BY:

PRINCIP-L ENGINEER

R.C.E. No. D-TE

CITY OF ANAHEIM CALIFORNIA — FOUNDED 1857

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS
200 SOUTH ANAHEIM BLVD. #276
ANAHEIM, CA 92805
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STREET IMPROVEMENT
STATE COLLEGE GRADE SEPARATION
ROADWAY PROFILES-WRIGHT CIR, STADIUM XING, & ACCESS RD

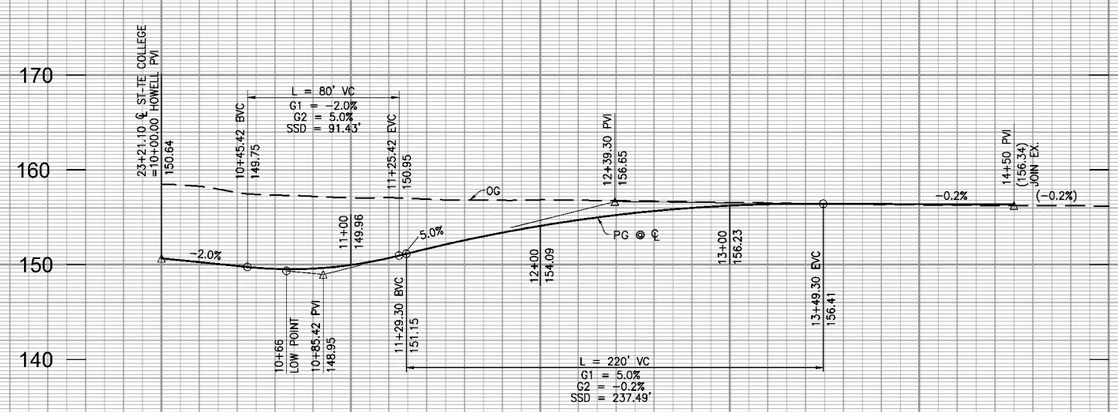
CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS

ACCOUNT NUMBER
R709

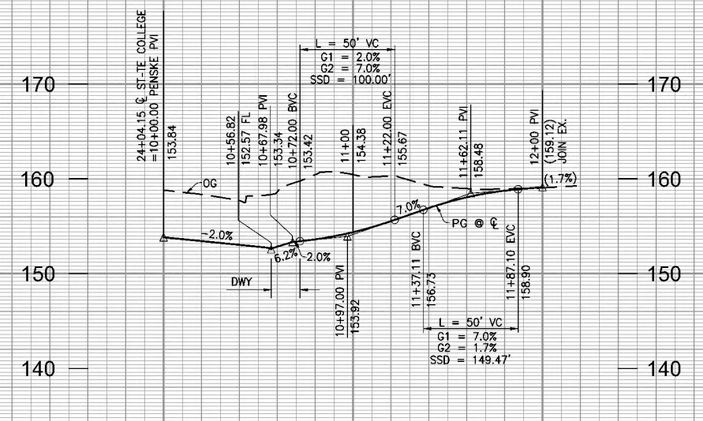
SHEET OF

PLAN NUMBER R-17

PROFILE
SCALE
HORIZ. 1" = 40'
VERT. 1" = 8'



POSTED SPEED = 40 MPH
DESIGN SPEED = 45 MPH



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-NDERGROUND SER-CE -ERT OF SOUTHERN C-LIFORN-.

REVISIONS				
NO.	D-TE	D E S C R I P T I O N	ENGR.	-PPROV.

REFERENCES
FOR NOTES TO CONTR-CTOR SEE PL-N XXXXX
FOR ST-ND-RD DET-ILS SEE:
STREET PL-N NO's: XXX-XXX / STRIPING PL-N NO's: XXX-XXX
DIST. M-P NO. 107, 117 / BENCH M-RK NO. 12B-14 / ELEV-TION: 161.41'
B-SIS OF BE-RING: CALIFORNIA STATE PLANE ZONE 6 U.S. SURVEY FEET, NAD83
(2007.00) AS DETERMINED BY STATIC GPS SURVEY FROM ORANGE COUNTY PUBLIC
WORKS CONTINUOUS GPS STATIONS DESIGNATED OEOC AND CCCS

SC-LE: 1"=40' | DESIGNED BY: MC | REVIEWED BY: LN

REGISTERED PROFESSIONAL ENGINEER · MARC P. COLLETT · No. 54905 Exp. 6-30-14 · CIVIL · STATE OF CALIFORNIA

PL-N PREP-RED BY:

PRINCIP-L ENGINEER

R.C.E. No. D-TE

CITY OF ANAHEIM CALIFORNIA · FOUNDED 1857

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS
200 SOUTH ANAHEIM BLVD. #276
ANAHEIM, CA 92805
(714) 765-5176
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STREET IMPROVEMENT
STATE COLLEGE GRADE SEPARATION
ROADWAY PROFILES - HOWELL AVE & PENSKE DRIVEWAY

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS

ACCOUNT NUMBER
R709

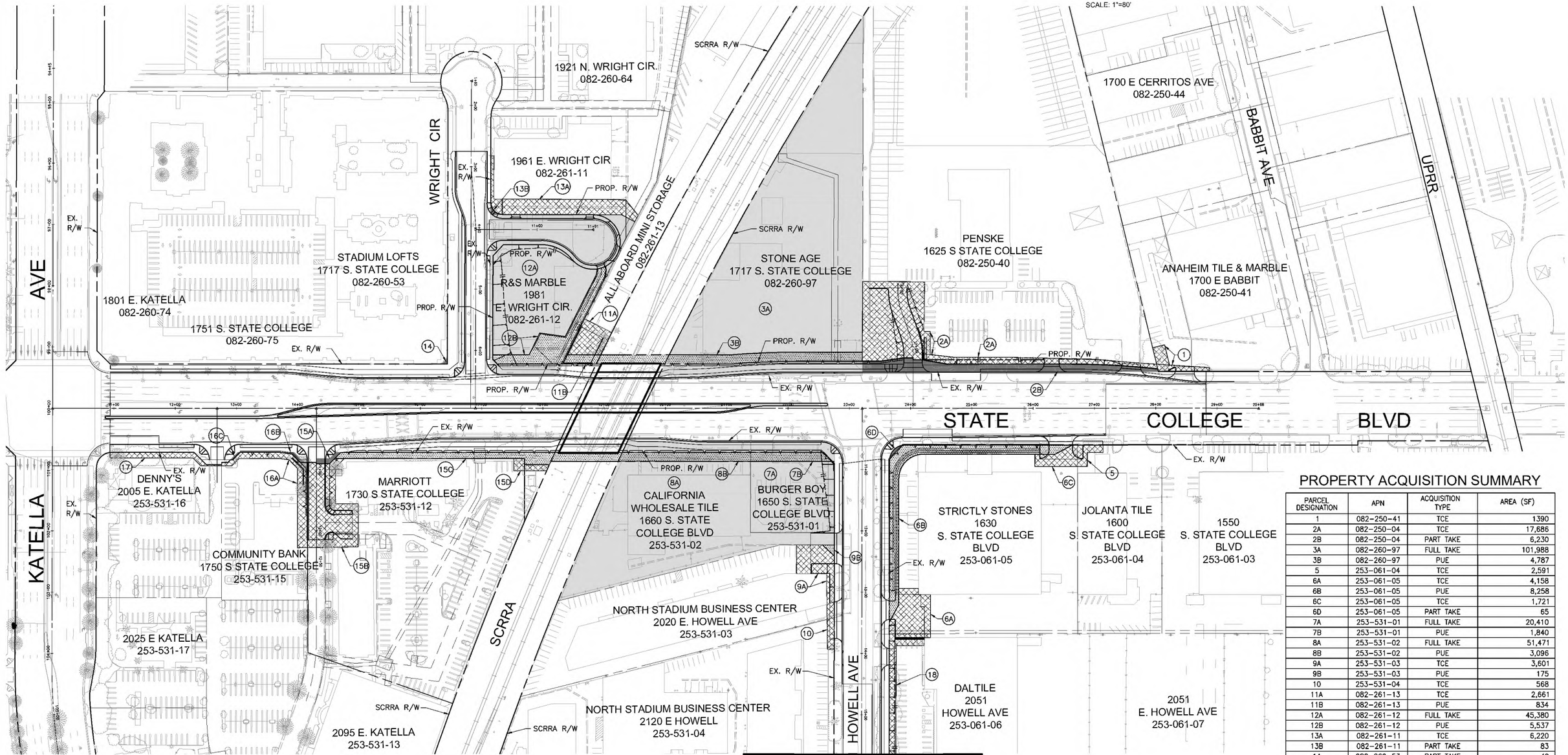
SHEET OF

PLAN NUMBER R-18

R709-ST COLLEGE GRADE SEPARATION

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SCALE: 1"=80'



PROPERTY ACQUISITION SUMMARY

PARCEL DESIGNATION	APN	ACQUISITION TYPE	AREA (SF)
1	082-250-41	TCE	1,390
2A	082-250-04	TCE	17,686
2B	082-250-04	PART TAKE	6,230
3A	082-260-97	FULL TAKE	101,988
3B	082-260-97	PUE	4,787
5	253-061-04	TCE	2,591
6A	253-061-05	TCE	4,158
6B	253-061-05	PUE	8,258
6C	253-061-05	TCE	1,721
6D	253-061-05	PART TAKE	65
7A	253-531-01	FULL TAKE	20,410
7B	253-531-01	PUE	1,840
8A	253-531-02	FULL TAKE	51,471
8B	253-531-02	PUE	3,096
9A	253-531-03	TCE	3,601
9B	253-531-03	PUE	175
10	253-531-04	TCE	568
11A	082-261-13	TCE	2,661
11B	082-261-13	PUE	834
12A	082-261-12	FULL TAKE	45,380
12B	082-261-12	PUE	5,537
13A	082-261-11	TCE	6,220
13B	082-261-11	PART TAKE	83
14	082-260-53	PART TAKE	49
15A	253-531-12	PART TAKE	307
15B	253-531-12	TCE	8,967
15C	253-531-12	PUE	3,955
15D	253-531-12	TCE	733
16A	253-531-15	TCE	3,563
16B	253-531-15	PART TAKE	122
16C	253-531-15	PART TAKE	43
17	253-531-16	TCE	1,470
18	253-061-06	TCE	3,811

LEGEND

- TEMPORARY CONSTRUCTION EASEMENT (TCE)
- PART TAKE
- (XX) PARCEL DESIGNATION
- PUBLIC UTILITY EASEMENT (PUE)
- FULL TAKE

NOTE:

SEE PLATS & LEGAL DESCRIPTIONS FOR ADDITIONAL DETAILS ON RIGHT OF WAY NEEDS BY PARCEL.

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UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

HDR
HDR Engineering, Inc.

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REVISIONS

NO.	DATE	DESCRIPTION	ENGR.	APPROV.

REFERENCES

FOR NOTES TO CONTRACTOR SEE PLAN XXXXX
FOR STANDARD DETAILS SEE:

STREET PLAN NO's: XXX-XXX | STRIPING PLAN NO's: XXX-XXX
DIST. MAP NO. 107, 117 | BENCH MARK NO. 12B-14 | ELEVATION: 161.41'
BASIS OF BEARING: CALIFORNIA STATE PLANE ZONE 6 U.S. SURVEY FEET, NAD83 (2007.00) AS DETERMINED BY STATIC GPS SURVEY FROM ORANGE COUNTY PUBLIC WORKS CONTINUOUS GPS STATIONS DESIGNATED OEOC AND CCCS

SCALE: 1"=80' | DESIGNED BY: MC | REVIEWED BY: LN

REGISTERED PROFESSIONAL ENGINEER — MARC P. COOLEY — No. 54905 Exp. 6-30-14 — CIVIL — STATE OF CALIFORNIA

PLAN PREPARED BY:

PRINCIPAL ENGINEER
#54905 R.C.E. No.
DATE

CITY OF ANAHEIM CALIFORNIA FOUNDED 1857

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS
200 SOUTH ANAHEIM BLVD. #276
ANAHEIM, CA 92805
(714) 765-5176
www.anaheim.net

RIGHT OF WAY NEEDS
STATE COLLEGE GRADE SEPARATION
STATE COLLEGE BLVD & KATELLA AVE

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS

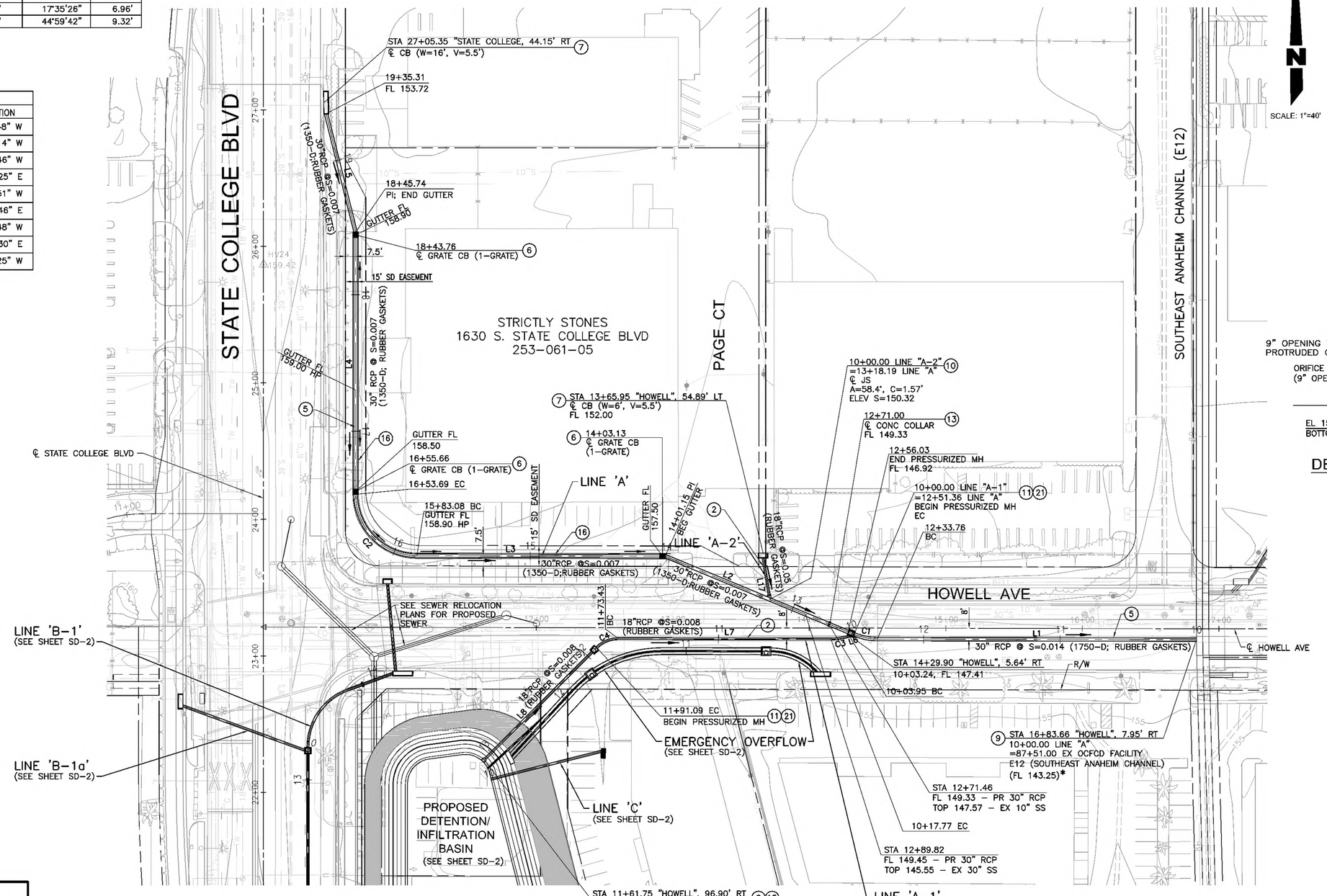
ACCOUNT NUMBER
R709

SHEET OF
PLAN NUMBER ROW-1

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CURVE TABLE				
NAME	RADIUS	ARC LENGTH	DELTA	TANGENT
C1	45.00'	17.60'	22°24'34"	8.91'
C2	45.00'	70.61'	89°54'11"	44.92'
C3	45.00'	13.82'	17°35'26"	6.96'
C4	22.50'	17.67'	44°59'42"	9.32'

LINE TABLE		
NAME	LENGTH	DIRECTION
L1	233.76'	N 89°11'48" W
L2	145.13'	N 66°47'14" W
L3	178.89'	N 89°11'46" W
L4	184.15'	N 00°42'25" E
L5	89.57'	N 13°15'51" W
L6	0.72'	N 73°12'46" E
L7	155.66'	N 89°11'48" W
L8	116.41'	N 45°48'30" E
L17	28.18'	N 08°24'25" W



CONSTRUCTION NOTES - STORMDRAIN

(2) INSTALL 18" RCP (2000-D, UNLESS NOTED OTHERWISE ON PLANS)

(5) INSTALL 30" RCP (SEE PLAN FOR D-LOAD)

(6) CONSTRUCT GRATING CATCH BASIN-ALLEY PER SPPWC STD PLAN 304-3 (MODIFIED FOR 30" RCP CONNECTOR PIPES)

(7) CONSTRUCT CURB OPENING CATCH BASIN PER SPPWC STD PLAN 300-3, W PER PLAN

(8) CONSTRUCT INLET TYPE V PER OCPW STD PLAN 1305 AS MODIFIED PER DETAIL ON SHEET SD-1

(9) CONSTRUCT JUNCTION STRUCTURE TYPE V PER OCPW STD PLAN 333-2-OC (DETAILS SHEET SD-1)

(10) CONSTRUCT JUNCTION STRUCTURE PER SPPWC STD PLAN 331-3

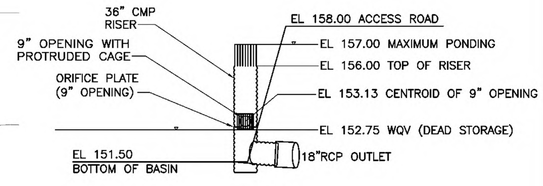
(11) CONSTRUCT MANHOLE PER SPPWC STD PLAN 321-2

(13) CONSTRUCT CONCRETE COLLAR PER SPPWC STD PLAN 380-4

(15) CONSTRUCT PROTRUDED CAGE AROUND 9" OPENING

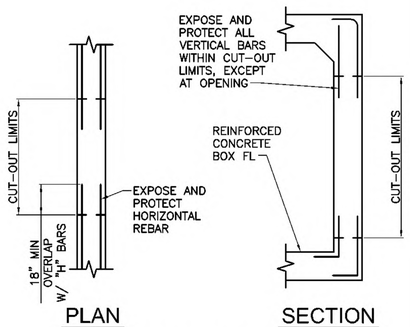
(16) CONSTRUCT 4' LONGITUDINAL GUTTER PER SPPWC STD PLAN 122-2

(21) INSTALL MANHOLE FRAME AND COVER PER CITY OF ANAHEIM STD. DETAIL 630-3



DETENTION BASIN OUTLET SKETCH (8)

N.T.S



DETAILS (JS TYPE V)

N.T.S

* LOCATION TO BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION

35% SUBMITTAL (NOT FOR CONSTRUCTION)

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HDR — HDR Engineering, Inc.

REVISIONS				
NO.	DATE	DESCRIPTION	ENGR.	APPROV.

REFERENCES	
FOR NOTES TO CONTRACTOR SEE PLAN	XXXXX
FOR STANDARD DETAILS SEE:	
STREET PLAN NO's: XXX-XXX	STRIPING PLAN NO's: XXX-XXX
DIST. MAP NO. 107, 117	BENCH MARK NO. 12B-14 ELEVATION: 161.41'
BASIS OF BEARING: CALIFORNIA STATE PLANE ZONE 6 U.S. SURVEY FEET, NAD83 (2007.00) AS DETERMINED BY STATIC GPS SURVEY FROM ORANGE COUNTY PUBLIC WORKS CONTINUOUS GPS STATIONS DESIGNATED OEOC AND CCCS	

SCALE: 1"=40' | DESIGNED BY: YH | REVIEWED BY: VH

REGISTERED PROFESSIONAL ENGINEER — YVETTE G. IVANNA — No. 73493 — Exp. 12-31-14 — CIVIL — STATE OF CALIFORNIA

PLAN PREPARED BY:

PRINCIPAL ENGINEER

#54905 R.C.E. No. | DATE

CITY OF ANAHEIM — CALIFORNIA — FOUNDED 1857

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS
200 SOUTH ANAHEIM BLVD. #276
ANAHEIM, CA 92805
(714) 765-5176
www.anaheim.net

STORM DRAIN IMPROVEMENT
STATE COLLEGE GRADE SEPARATION
SD LINES 'A', 'A-1', & 'A-2'

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS

ACCOUNT NUMBER R709

SHEET OF

PLAN NUMBER SD-1

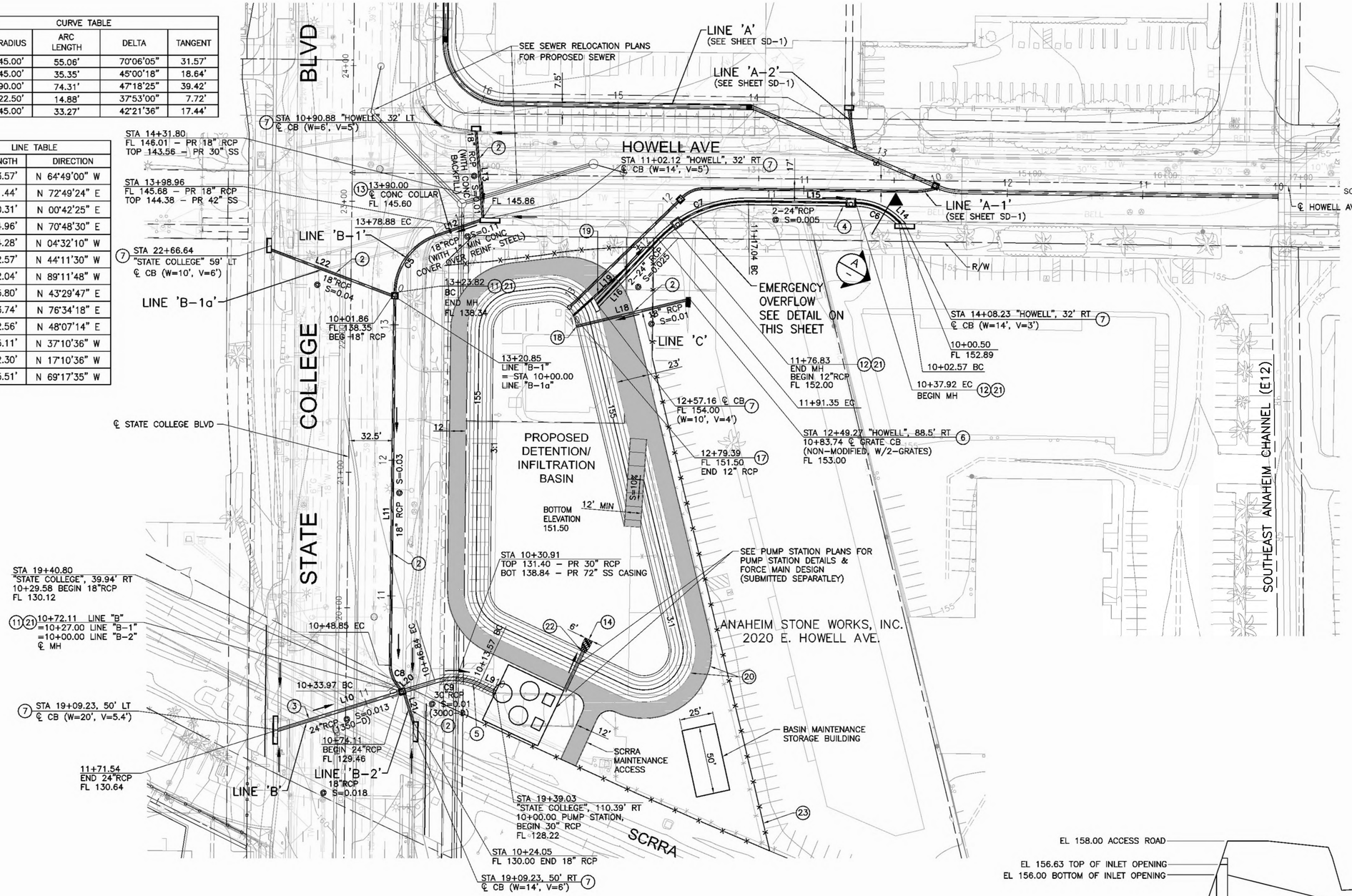
R709-STATE COLLEGE GRADE SEPARATION

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C:\pwwdesktop\sac\d0477454\01-SDPL.dwg STORMDRAINPLAN 11/21/2013 11:23 PM Niki

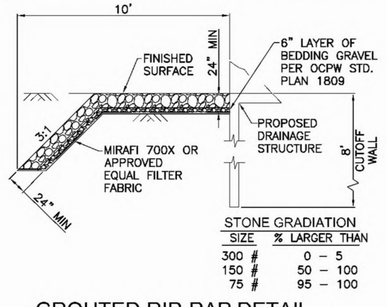
CURVE TABLE				
NAME	RADIUS	ARC LENGTH	DELTA	TANGENT
C5	45.00'	55.06'	70°06'05"	31.57'
C6	45.00'	35.35'	45°00'18"	18.64'
C7	90.00'	74.31'	47°18'25"	39.42'
C8	22.50'	14.88'	37°53'00"	7.72'
C9	45.00'	33.27'	42°21'36"	17.44'

LINE TABLE		
NAME	LENGTH	DIRECTION
L9	13.57'	N 64°49'00" W
L10	121.44'	N 72°49'24" E
L11	270.31'	N 00°42'25" E
L12	34.96'	N 70°48'30" E
L13	64.28'	N 04°32'10" W
L14	2.57'	N 44°11'30" W
L15	72.04'	N 89°11'48" W
L16	65.80'	N 43°29'47" E
L18	83.74'	N 76°34'18" E
L19	102.56'	N 48°07'14" E
L20	5.11'	N 37°10'36" W
L21	22.30'	N 17°10'36" W
L22	95.51'	N 69°17'35" W



CONSTRUCTION NOTES - STORMDRAIN

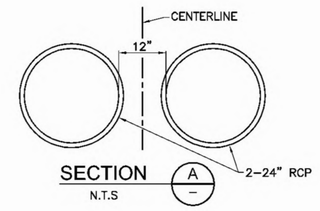
2. INSTALL 18" RCP (2000-D, UNLESS NOTED OTHERWISE ON PLANS)
3. INSTALL 24" RCP (SEE PLAN FOR D-LOAD)
4. INSTALL 2-24" RCP (WITH RUBBER GASKETS AND CONCRETE BACKFILL)
5. INSTALL 30" RCP (SEE PLAN FOR D-LOAD)
6. CONSTRUCT GRATING CATCH BASIN-ALLEY PER SPPWC STD PLAN 304-3 (MODIFIED FOR 30" RCP CONNECTOR PIPES)
7. CONSTRUCT CURB OPENING CATCH BASIN PER SPWWC STD PLAN 300-3, W PER PLAN
11. CONSTRUCT MANHOLE PER SPPWC STD PLAN 321-2
12. CONSTRUCT PRESSURIZED MANHOLE PER SPPWC STD PLAN 320-2 (D1 & D2 = 5')
13. CONSTRUCT CONCRETE COLLAR PER SPPWC STD. PLAN 380-4
14. CONSTRUCT GROUTED RIP-RAP PER DETAIL ON SHEET SD-2
17. INSTALL HYDRO GATE HEAVY DUTY FLAP GATE FOR 12" RCP OR APPROVED EQUAL
18. INSTALL HYDRO GATE HEAVY DUTY FLAP GATE FOR 18" RCP OR APPROVED EQUAL
19. INSTALL 12" RCP
20. CONSTRUCT 3.5" AC OVER 4" AB PAVEMENT SECTION
21. INSTALL MANHOLE FRAME AND COVER PER CITY OF ANAHEIM STD. DETAIL 630-3
22. INSTALL HEADWALL PER CALTRANS STD. PLAN D-86
23. INSTALL CHAIN LINK FENCE PER SPPWC STD. PLAN 600-3

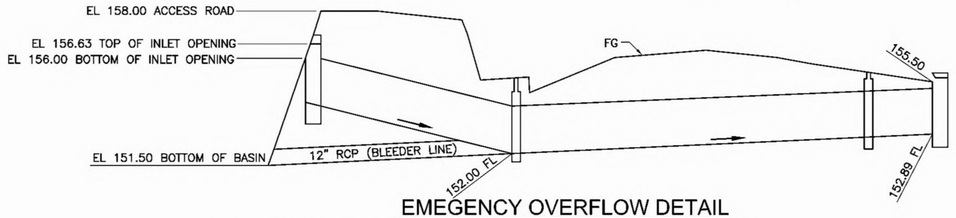


STONE GRADIATION

SIZE	% LARGER THAN
300 #	0 – 5
150 #	50 – 100
75 #	95 – 100

GROUTED RIP-RAP DETAIL (14)
N.T.S





EMEGENCY OVERFLOW DETAIL

35% SUBMITTAL (NOT FOR CONSTRUCTION)

LEGEND

SUBJECT TO COOPER E80 RAILROAD LOADING

DIGALERT — DIAL TOLL FREE 1-800-277-2600 AT LEAST TWO DAYS BEFORE YOU DIG — UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

HDR Engineering, Inc.

REVISIONS				
NO.	DATE	DESCRIPTION	ENGR.	APPROV.

REFERENCES	
FOR NOTES TO CONTRACTOR SEE PLAN	XXXXX
FOR STANDARD DETAILS SEE:	
STREET PLAN NO's: XXX-XXX	STRIPING PLAN NO's: XXX-XXX
DIST. MAP NO. 107, 117	BENCH MARK NO. 12B-14 ELEVATION: 161.41'
BASIS OF BEARING: CALIFORNIA STATE PLANE ZONE 6 U.S. SURVEY FEET, NAD83 (2007.00) AS DETERMINED BY STATIC GPS SURVEY FROM ORANGE COUNTY PUBLIC WORKS CONTINUOUS GPS STATIONS DESIGNATED OEOC AND CCCS	

SCALE: 1"=40' | DESIGNED BY: YH | REVIEWED BY: VH

REGISTERED PROFESSIONAL ENGINEER — YVETTE G. HANNA — No. 73493 Exp. 12-31-14 — CIVIL — STATE OF CALIFORNIA

PLAN PREPARED BY:

PRINCIPAL ENGINEER

#54905 R.C.E. No. DATE

CITY OF ANAHEIM — FOUNDED 1857

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS
200 SOUTH ANAHEIM BLVD. #276
ANAHEIM, CA 92805
(714) 765-5176
www.anaheim.net

STORM DRAIN IMPROVEMENT
STATE COLLEGE GRADE SEPARATION
SD LINES 'B', 'B-1', 'B-1a', 'B-2', & 'C'

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS

ACCOUNT NUMBER R709

SHEET OF

PLAN NUMBER SD-2

R709-STATE COLLEGE GRADE SEPARATION

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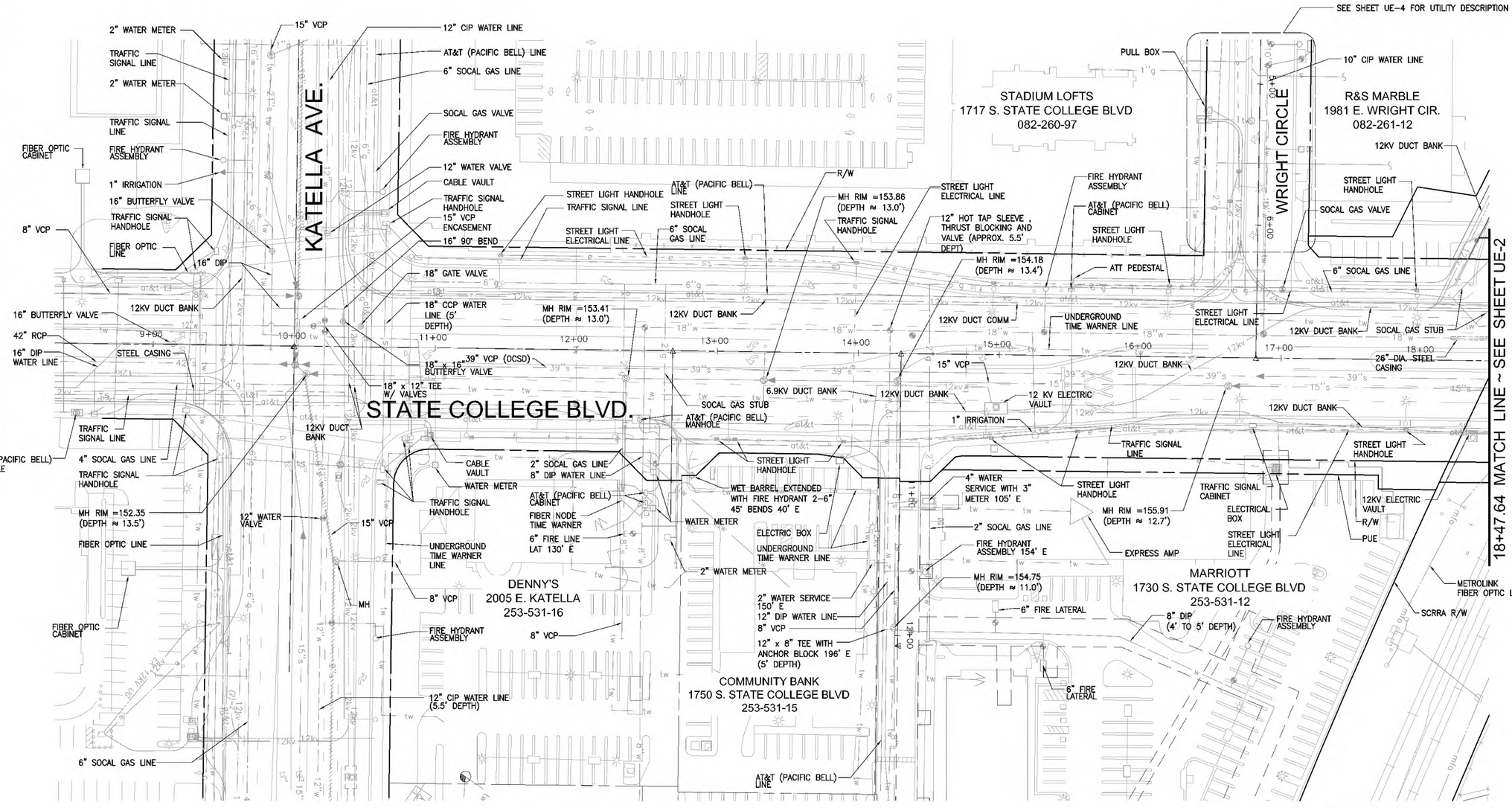
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LEGEND

UTILITIES EXISTING

- COA SEWER — s —
- COA SEWER 6" — 6"s —
- COA SEWER 10" — 10"s —
- COA SEWER 12" — 12"s —
- COA SEWER 15" — 15"s —
- OCSD SEWER 30" — 30"s —
- OCSD SEWER 39" — 39"s —
- TIME WARNER
- XO COM — xo —
- AT&T — at&t —
- COA FIBER OPTIC — fo —
- METROLNK FIBER OPTIC — mfo —
- COA STREET LIGHTING — e —
- COA ELECT OVERHEAD — 12kv —
- COA ELECT DUCT BANK — 12kv —
- SOCAL GAS — g —
- SOCAL GAS 2" — 2"g —
- SOCAL GAS 3" — 3"g —
- SOCAL GAS 4" — 4"g —
- SOCAL GAS 6" — 6"g —
- COA TRAFFIC SIGNAL — ts —
- COA WATER — w —
- COA WATER 4" — 4"w —
- COA WATER 6" — 6"w —
- COA WATER 8" — 8"w —
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- COA WATER 12" — 12"w —
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- COA WATER 18" — 18"w —
- GAS METER
- GAS VALVE
- SEWER MANHOLE
- SEWER FLOW
- HH STREET LIGHT
- TRAFFIC PLIGHT
- TRAFFIC LPOLE
- TRAFFIC UTILITY
- TRAFFIC
- WATER VALVE
- PROPOSED MANHOLE

SCALE: 1"=40'



PLAN

UTILITY AGENCIES

SOCAL	SO. CALIFORNIA GAS COMPANY
SCE	SOUTHERN CALIFORNIA EDISON
AT&T	AT&T
COA	CITY OF ANAHEIM
COO	COUNTY OF ORANGE
TW	TIME WARNER
XO	XO COMMUNICATION
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Hatch Mott MacDonald

35% SUBMITTAL (NOT FOR CONSTRUCTION)

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PLAN PREPARED BY:

PRINCIPAL ENGINEER

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STATE COLLEGE GRADE SEPARATION

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS

ACCOUNT NUMBER
R709

SHEET OF

PLAN NUMBER UE-1

R709-STATE COLLEGE GRADE SEPARATION

P:\315648 - OCTA State College Grade Separation\Drawing\State College Existing Utility Map.dwg 10/22/2013 11:23

SCALE: 1"=40'

LEGEND

UTILITIES EXISTING

- COA SEWER
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- COA SEWER 10"
- COA SEWER 12"
- COA SEWER 15"
- OCSD SEWER 30"
- OCSD SEWER 39"

- TIME WARNER
- XO COM
- AT&T
- COA FIBER OPTIC
- METROLNK FIBER OPTIC

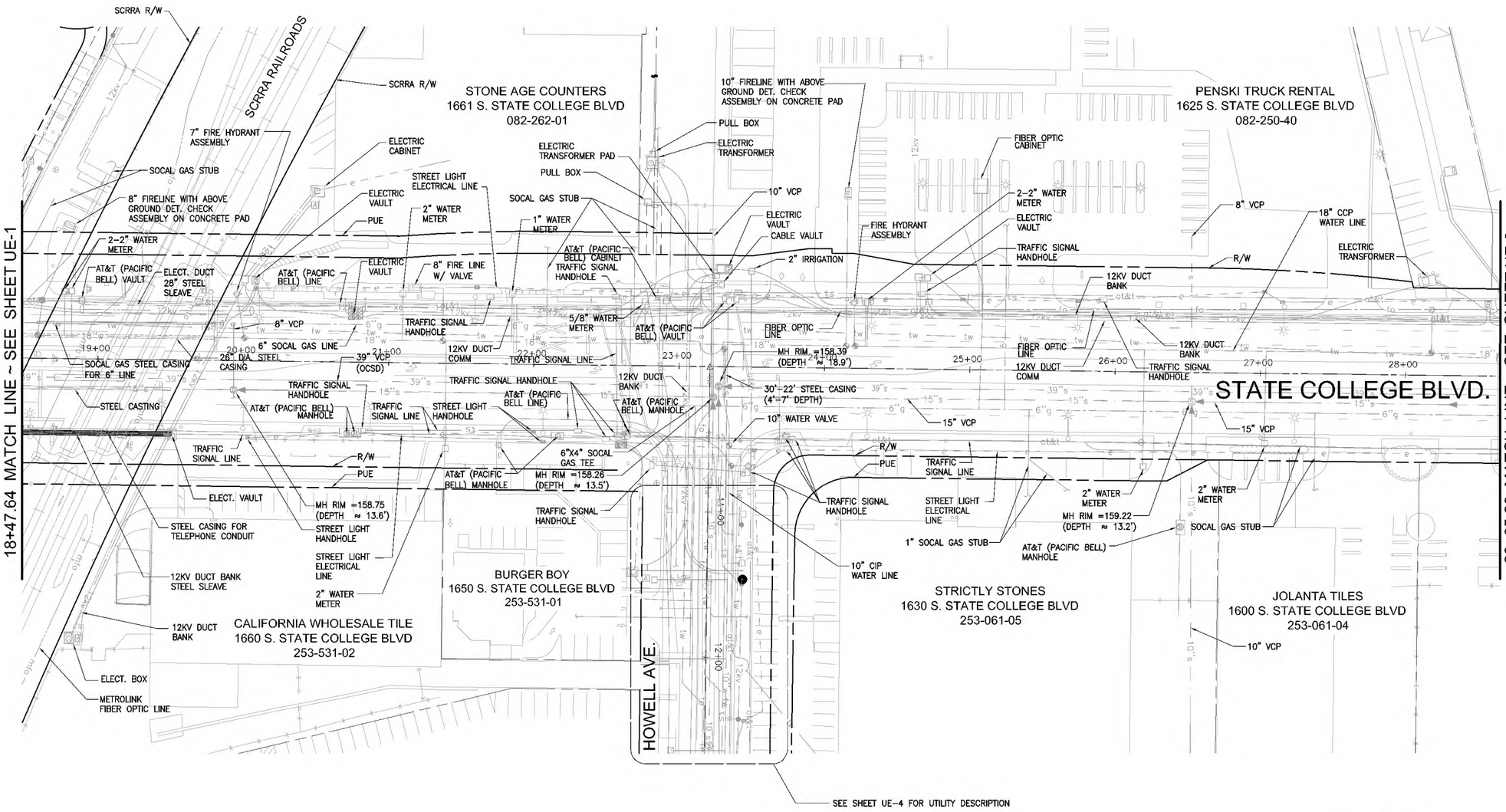
- COA STREET LIGHTING
- COA ELECT OVERHEAD
- COA ELECT DUCT BANK

- SOCAL GAS
- SOCAL GAS 2"
- SOCAL GAS 3"
- SOCAL GAS 4"
- SOCAL GAS 6"

- COA TRAFFIC SIGNAL

- COA WATER
- COA WATER 4"
- COA WATER 6"
- COA WATER 8"
- COA WATER 10"
- COA WATER 12"
- COA WATER 16"
- COA WATER 18"

- GAS METER
- GAS VALVE
- SEWER MANHOLE
- SEWER FLOW
- HH STREET LIGHT
- TRAFFIC PLIGHT
- TRAFFIC LPOLE
- TRAFFIC UTILITY
- TRAFFIC
- WATER VALVE
- PROPOSED MANHOLE



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DEPARTMENT OF PUBLIC WORKS

ACCOUNT NUMBER
R709

SHEET OF

PLAN NUMBER UE-2

R709-STATE COLLEGE GRADE SEPARATION

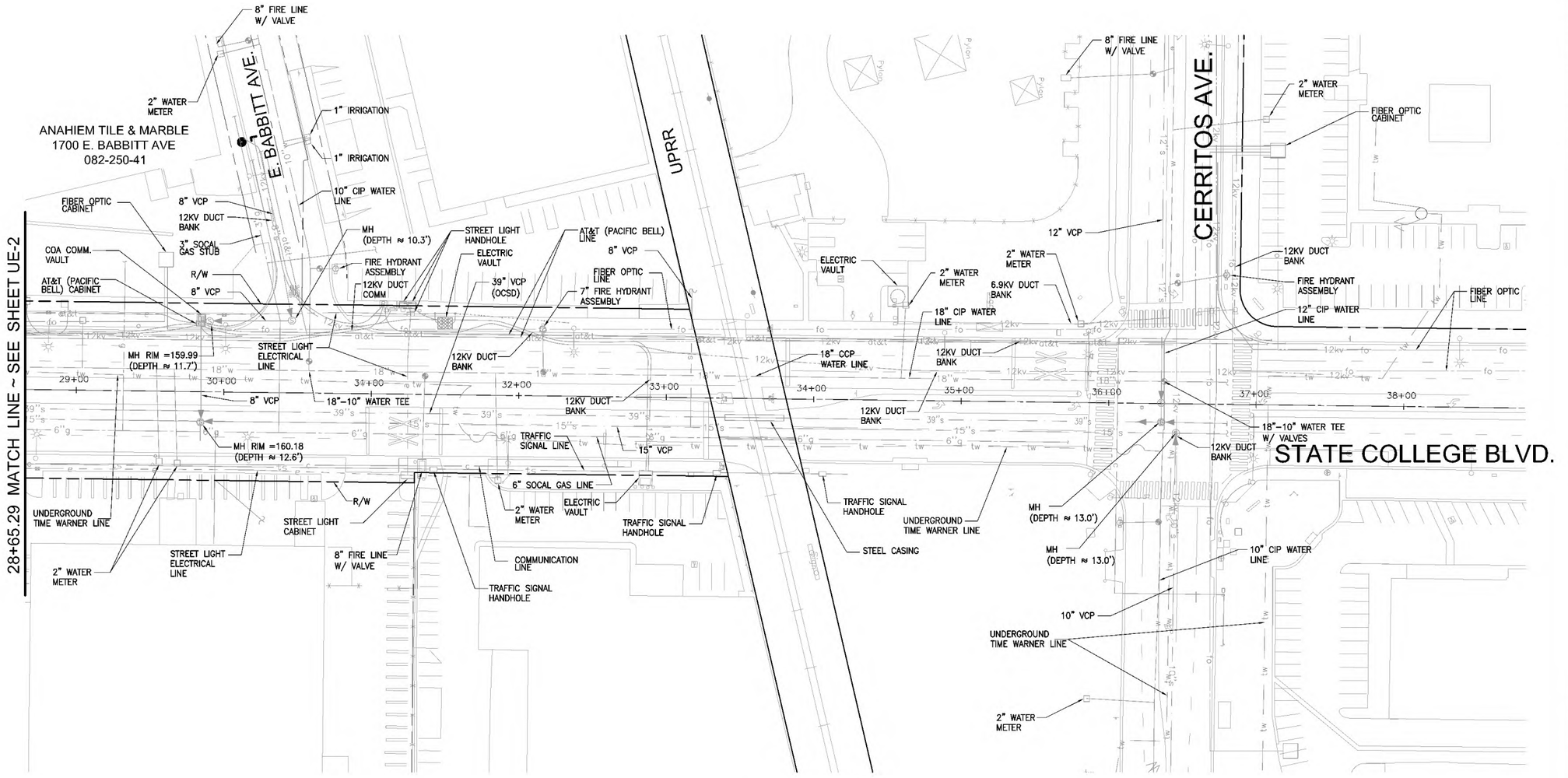
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LEGEND

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- COA SEWER 6" — 6"s
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- COA SEWER 12" — 12"s
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- OCSD SEWER 30" — 30"s
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- COA FIBER OPTIC — fo
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- TRAFFIC LPOLE
- TRAFFIC UTILITY
- TRAFFIC
- WATER VALVE
- PROPOSED MANHOLE

SCALE: 1"=40'



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SCE	SOUTHERN CALIFORNIA EDISON
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CITY OF ANAHEIM
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PLAN NUMBER UE-3

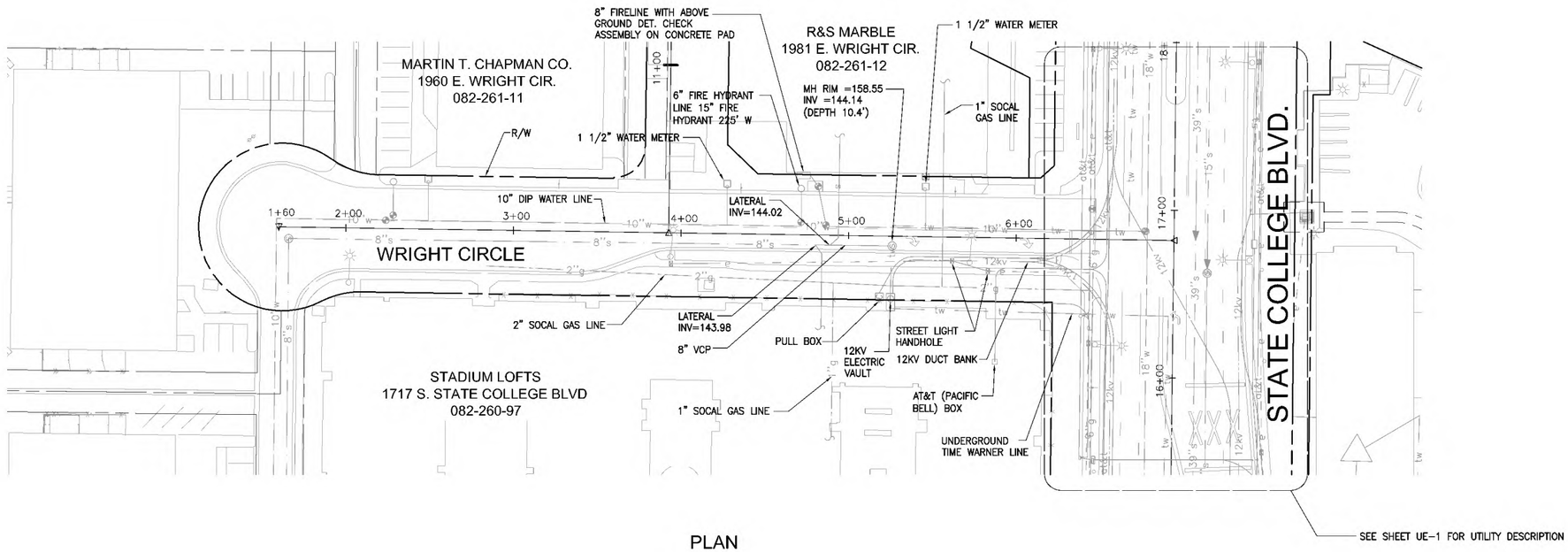
R709-STATE COLLEGE GRADE SEPARATION

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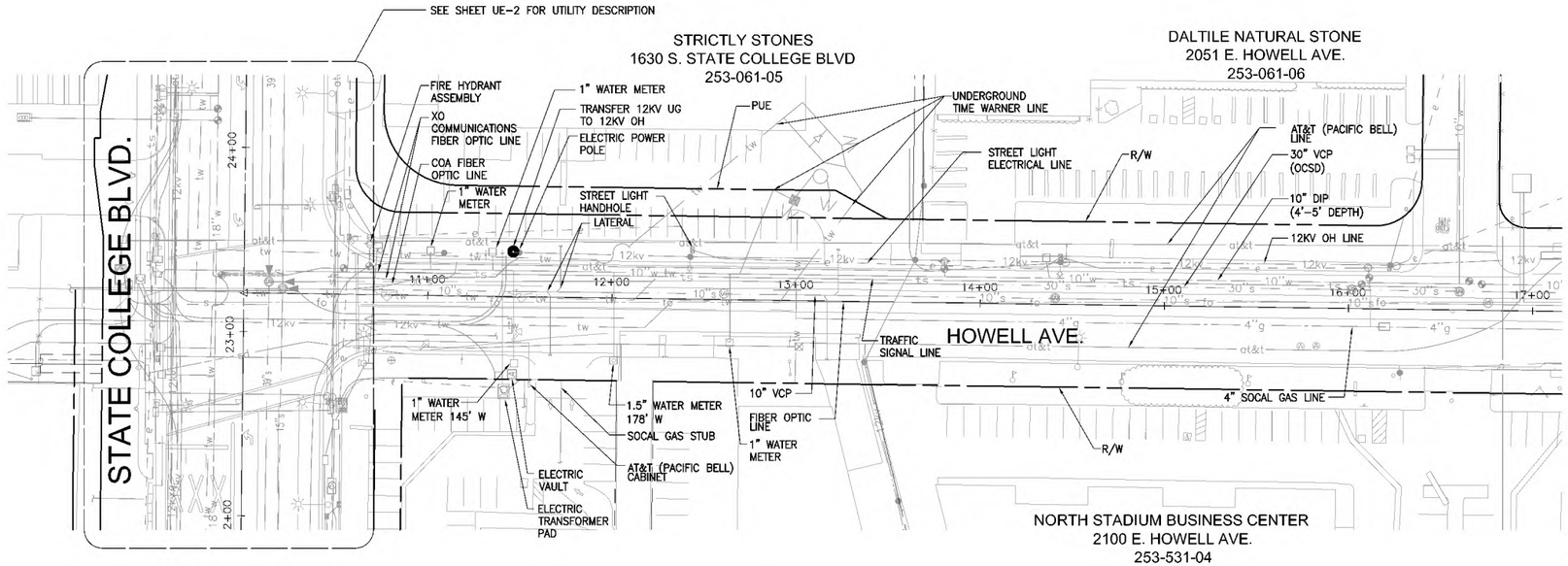
UTILITIES EXISTING

COA SEWER	s
COA SEWER 6"	6"s
COA SEWER 10"	10"s
COA SEWER 12"	12"s
COA SEWER 15"	15"s
OCSD SEWER 30"	30"s
OCSD SEWER 39"	39"s
TIME WARNER	
XO COM	xo
AT&T	at&t
COA FIBER OPTIC	fo
METROLNK FIBER OPTIC	mfo
COA STREET LIGHTING	e
COA ELECT OVERHEAD	12kv
COA ELECT DUCT BANK	12kv
SOCAL GAS	g
SOCAL GAS 2"	2"g
SOCAL GAS 3"	3"g
SOCAL GAS 4"	4"g
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COA TRAFFIC SIGNAL	ts
COA WATER	w
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COA WATER 12"	12"w
COA WATER 16"	16"w
COA WATER 18"	18"w
GAS METER	
GAS VALVE	
SEWER MANHOLE	
SEWER FLOW	
HH STREET LIGHT	
TRAFFIC PLIGHT	
TRAFFIC LPOLE	
TRAFFIC UTILITY	
TRAFFIC	
WATER VALVE	
PROPOSED MANHOLE	



PLAN

SCALE: 1"=40'



PLAN

UTILITY AGENCIES

SOCAL	SO. CALIFORNIA GAS COMPANY
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PRINCIPAL ENGINEER

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DEPARTMENT OF PUBLIC WORKS
200 SOUTH ANAHEIM BLVD. #276
ANAHEIM, CA 92805
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EXISTING UTILITIES LAYOUTS
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CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS

ACCOUNT NUMBER
R709

SHEET OF

PLAN NUMBER UE-4

R709-STATE COLLEGE GRADE SEPARATION

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LEGEND

UTILITIES EXISTING

COA SEWER	s
COA SEWER 6"	6"s
COA SEWER 10"	10"s
COA SEWER 12"	12"s
COA SEWER 15"	15"s
OCSD SEWER 30"	30"S
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TIME WARNER	
XO COM	xo
AT&T	at&t
COA FIBER OPTIC	fo
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GAS METER

GAS VALVE

SEWER MANHOLE

SEWER FLOW

HH STREET LIGHT

TRAFFIC PLIGHT

TRAFFIC LPOLE

TRAFFIC UTILITY

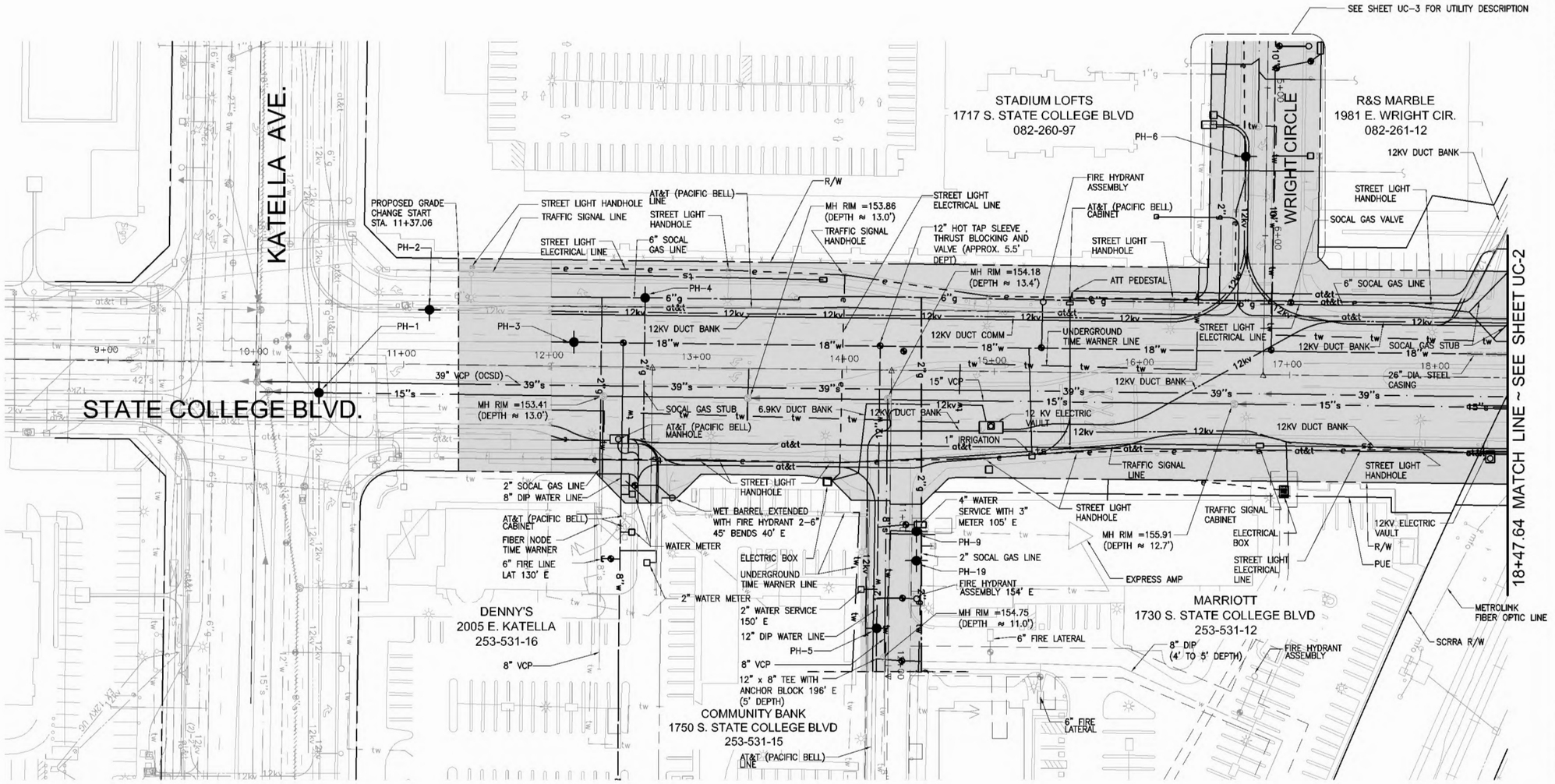
TRAFFIC

WATER VALVE

PROPOSED MANHOLE

POTHOLING

SCALE: 1"=40'



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ANAHEIM, CA 92805
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EXISTING UTILITIES
STATE COLLEGE GRADE SEPARATION
CONFLICT MAPS

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS

ACCOUNT NUMBER R709

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R709-STATE COLLEGE GRADE SEPARATION

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LEGEND

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COA SEWER	s
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COA SEWER 12"	12"s
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COA WATER 10"	10"w
COA WATER 12"	12"w
COA WATER 16"	16"w
COA WATER 18"	18"w

GAS METER

GAS VALVE

SEWER MANHOLE

SEWER FLOW

HH STREET LIGHT

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TRAFFIC LPOLE

TRAFFIC UTILITY

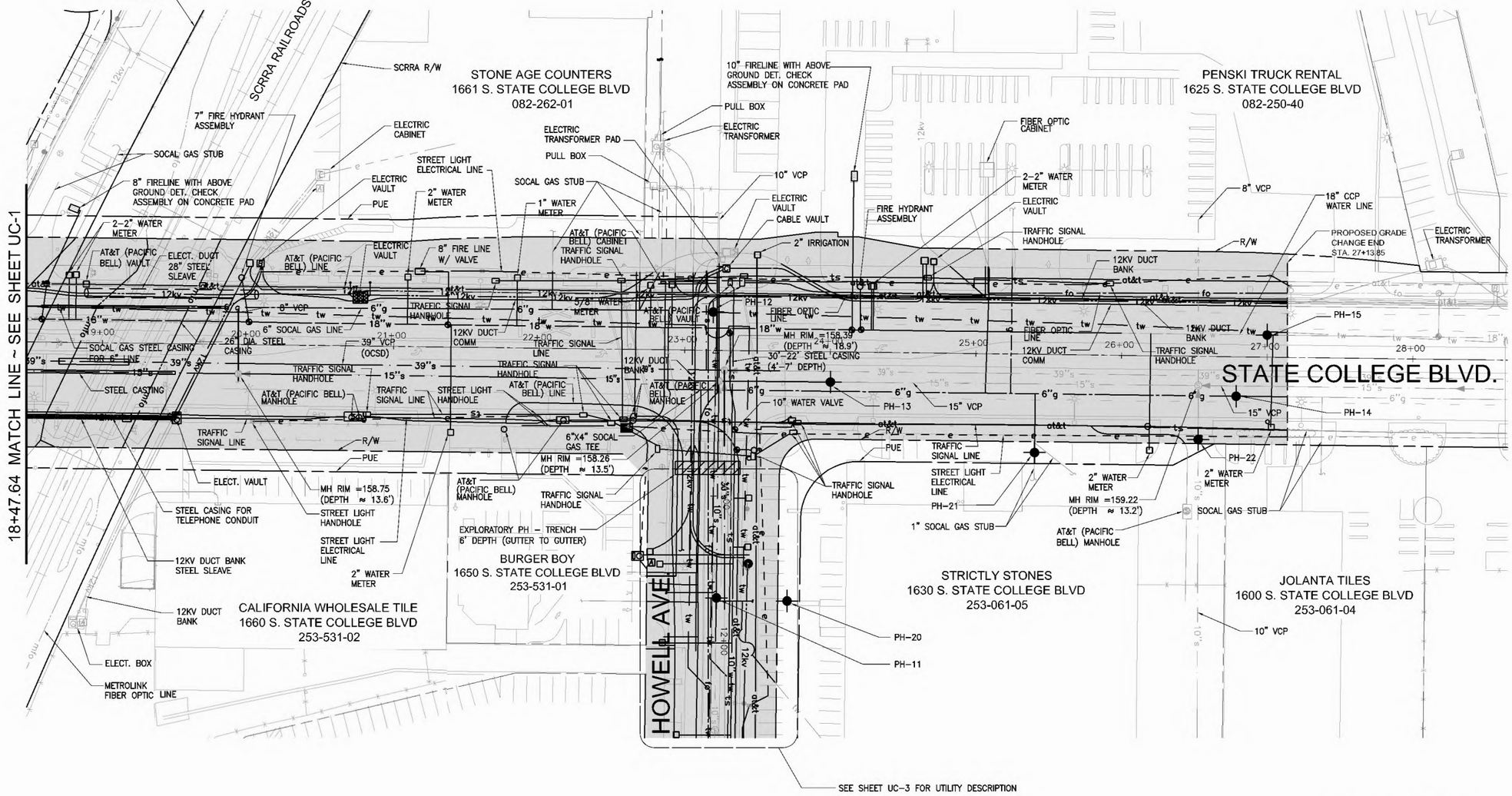
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R709

SHEET OF

PLAN NUMBER UC-2

R709-STATE COLLEGE GRADE SEPARATION

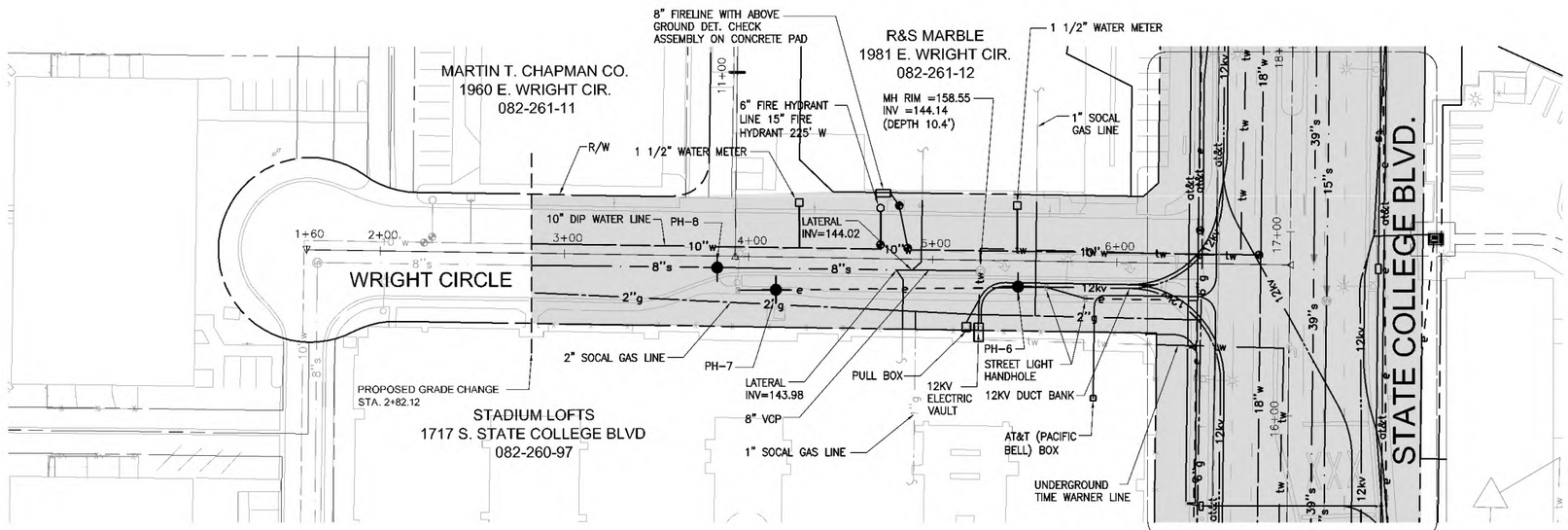
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LEGEND

UTILITIES EXISTING

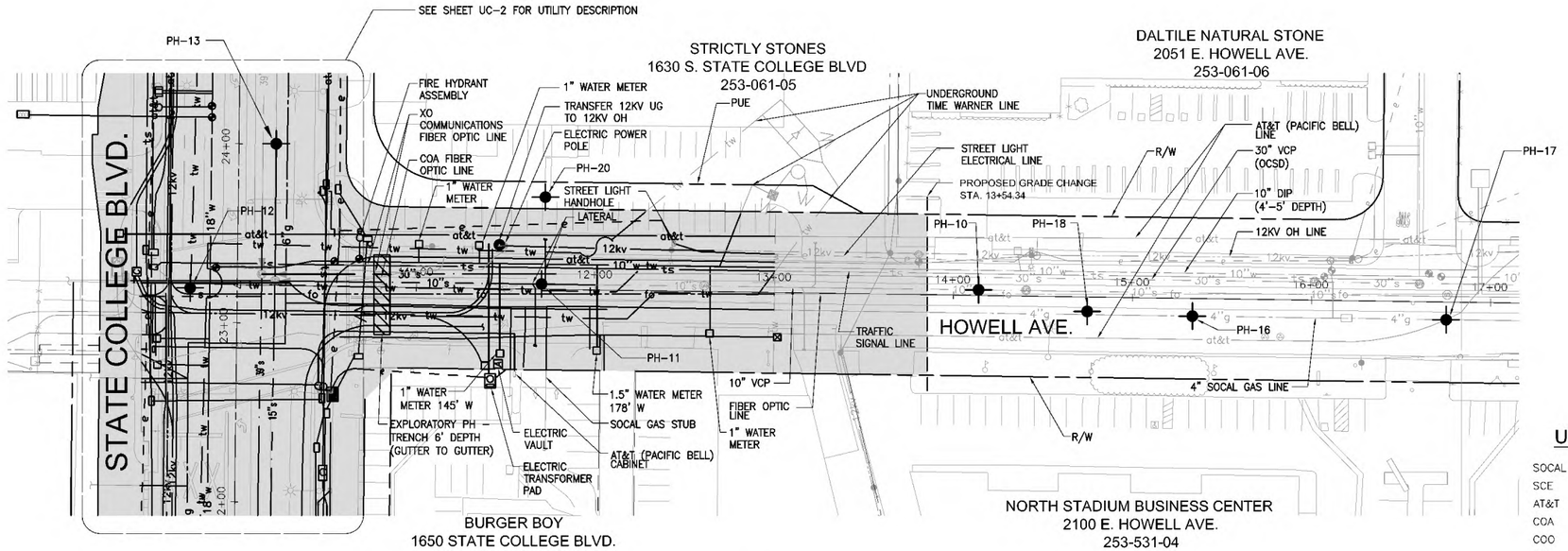
COA SEWER	s
COA SEWER 6"	6"s
COA SEWER 10"	10"s
COA SEWER 12"	12"s
COA SEWER 15"	15"s
OCSD SEWER 30"	30"s
OCSD SEWER 39"	39"s
TIME WARNER	
XO COM	xo
AT&T	at&t
COA FIBER OPTIC	fo
METROLNK FIBER OPTIC	mfo
COA STREET LIGHTING	e
COA ELECT OVERHEAD	12kv
COA ELECT DUCT BANK	12kv
SOCAL GAS	g
SOCAL GAS 2"	2"g
SOCAL GAS 3"	3"g
SOCAL GAS 4"	4"g
SOCAL GAS 6"	6"g
COA TRAFFIC SIGNAL	ts
COA WATER	w
COA WATER 4"	4"w
COA WATER 6"	6"w
COA WATER 8"	8"w
COA WATER 10"	10"w
COA WATER 12"	12"w
COA WATER 16"	16"w
COA WATER 18"	18"w

GAS METER
GAS VALVE
SEWER MANHOLE
SEWER FLOW
HH STREET LIGHT
TRAFFIC PLIGHT
TRAFFIC LPOLE
TRAFFIC UTILITY
TRAFFIC
WATER VALVE
PROPOSED MANHOLE
POTHOLING



PLAN

SCALE: 1"=40'



PLAN

UTILITY AGENCIES

SOCAL	SO. CALIFORNIA GAS COMPANY
SCE	SOUTHERN CALIFORNIA EDISON
AT&T	AT&T
COA	CITY OF ANAHEIM
COO	COUNTY OF ORANGE
TW	TIME WARNER
XO	XO COMMUNICATION
OCSD	ORANGE COUNTY SANITATION DEPARTMENT

35% SUBMITTAL (NOT FOR CONSTRUCTION)

DIGALERT — DIAL TOLL FREE 1-800-277-2600 AT LEAST TWO DAYS BEFORE YOU DIG — UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

Hatch Mott MacDonald

REVISIONS				
NO.	DATE	DESCRIPTION	ENGR.	APPROV.

REFERENCES

FOR NOTES TO CONTRACTOR SEE PLAN Ref. Noted
FOR STANDARD DETAILS SEE:

STREET PLAN NO's: XXX-XXX | STRIPING PLAN NO's: XXX-XXX
DIST. MAP NO. 107, 117 | BENCH MARK NO. 12B-14 | ELEVATION: 161.41'
BASIS OF BEARING: CALIFORNIA STATE PLANE ZONE 6 U.S. SURVEY FEET, NAD83 (2007.00) AS DETERMINED BY STATIC GPS SURVEY FROM ORANGE COUNTY PUBLIC WORKS CONTINUOUS GPS STATIONS DESIGNATED OEOC AND CCCS (NAVD 1988)

SCALE: 1"= 40' | DESIGNED BY: RDS | REVIEWED BY: RJR

PLAN PREPARED BY:

PRINCIPAL ENGINEER

R.C.E. No. | DATE

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS
200 SOUTH ANAHEIM BLVD. #276
ANAHEIM, CA 92805
(714) 765-5176
www.anaheim.net

EXISTING UTILITIES
STATE COLLEGE GRADE SEPARATION
CONFLICT MAPS

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS

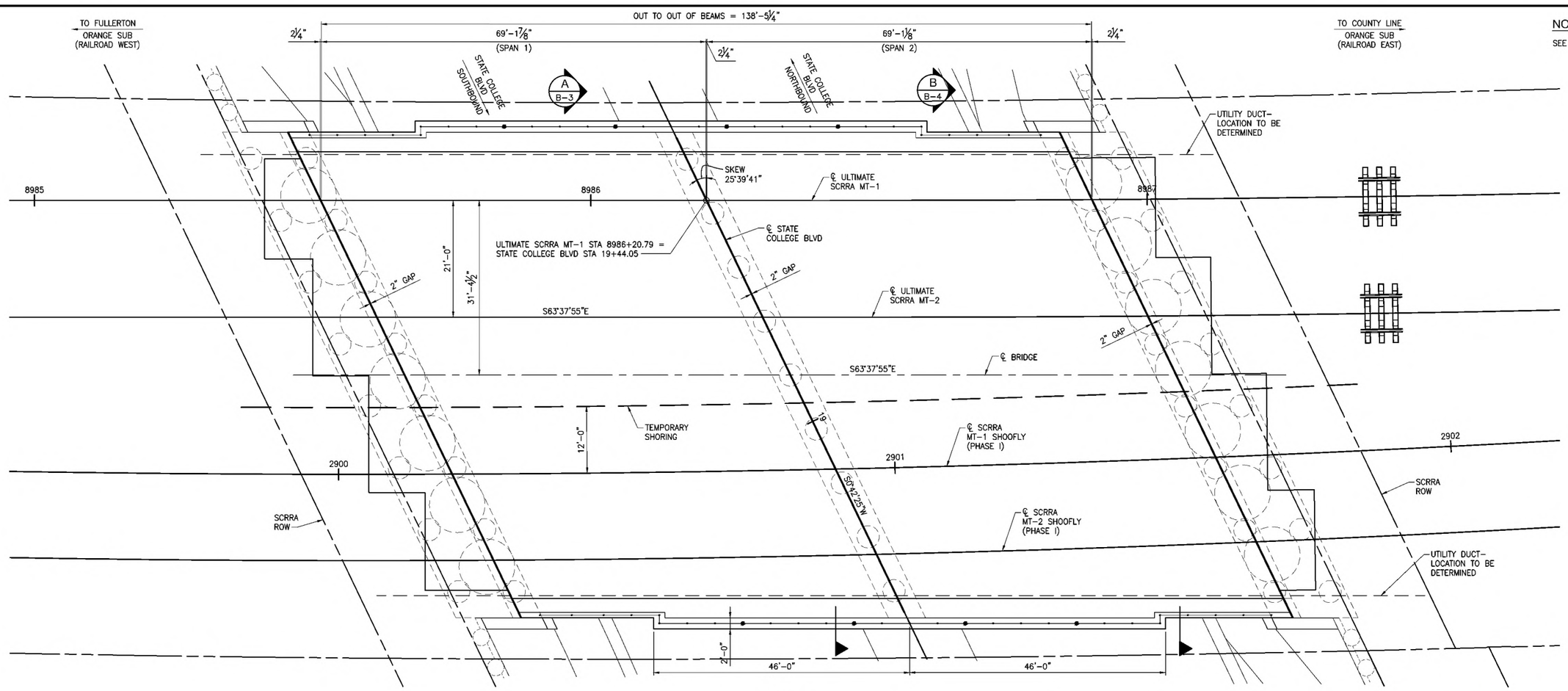
ACCOUNT NUMBER
R709

SHEET OF

PLAN NUMBER UC-3

R709-STATE COLLEGE GRADE SEPARATION

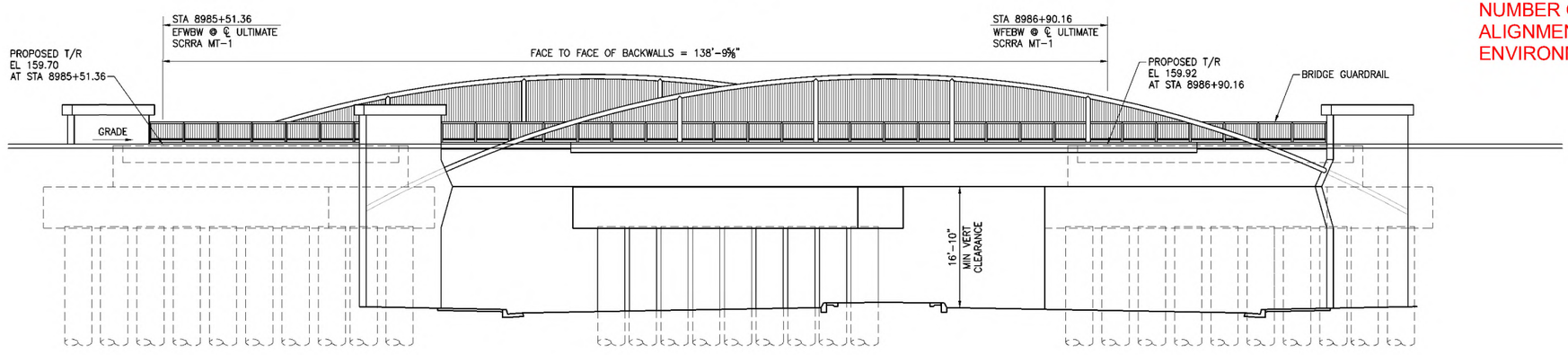
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NOTE:

SEE RAILING PLANS FOR RAIL GEOMETRY.

PLAN
1"=10'-0"



ELEVATION
1"=10'-0"

AESTHETIC TREATMENT AND PIER CONCRETE CASING NOT SHOWN FOR CLARITY

SEE VOLUME 3.1 FOR FINAL NUMBER OF TRACKS AND ALIGNMENT THAT CAHSR IS ENVIRONMENTALLY CLEARING

35% SUBMITTAL (NOT FOR CONSTRUCTION)

DIGALERT
DIAL TOLL FREE
1-800-277-2600
AT LEAST TWO DAYS
BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

HDR
HDR Engineering, Inc.

REVISIONS				
NO.	DATE	DESCRIPTION	ENGR.	APPROV.

REFERENCES	
FOR NOTES TO CONTRACTOR SEE PLAN	XXXXX
FOR STANDARD DETAILS SEE:	
STREET PLAN NO's: XXX-XXX	STRIPING PLAN NO's: XXX-XXX
DIST. MAP NO. 107, 117	BENCH MARK NO. 12B-14 ELEVATION: 161.41'
BASIS OF BEARING: CALIFORNIA STATE PLANE ZONE 6 U.S. SURVEY FEET, NAD83 (2007.00) AS DETERMINED BY STATIC GPS SURVEY FROM ORANGE COUNTY PUBLIC WORKS CONTINUOUS GPS STATIONS DESIGNATED OEOC AND CCCS	

SCALE:

DESIGNED BY: WP

REVIEWED BY: PM

REGISTERED PROFESSIONAL ENGINEER
WILLIAM J. PERRY
No. C73631
Exp. 12-31-14
CIVIL
STATE OF CALIFORNIA

PLAN PREPARED BY:

PRINCIPAL ENGINEER

#C73631
R.C.E. No.

DATE

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS
200 SOUTH ANAHEIM BLVD. #276
ANAHEIM, CA 92805
(714) 765-5176
www.anaheim.net

BRIDGE PLANS
STATE COLLEGE GRADE SEPARATION
GENERAL ARRANGEMENT

CITY OF ANAHEIM
DEPARTMENT OF PUBLIC WORKS

ACCOUNT NUMBER
R709

SHEET OF

PLAN NUMBER B-1

R709-ST COLLEGE GRADE SEPARATION

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