

LOS ANGELES COUNTY PUBLIC WORKS

PROJECT NO. 530 LOS NIETOS, LINE D, SORENSEN LATERAL

PROJECT PLAN INDEX

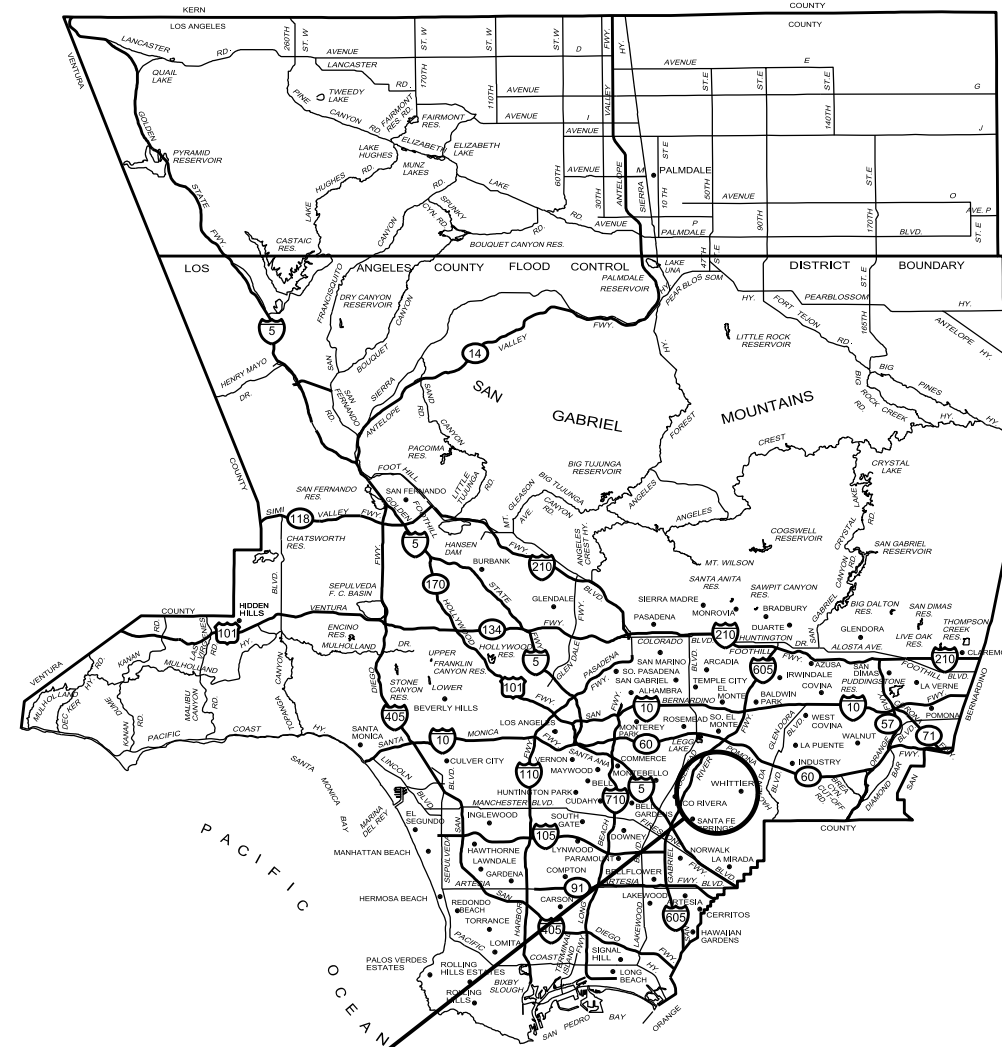
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	CONSTRUCTION GENERAL INFORMATION
3	PLAN AND PROFILE
4	PLAN
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REFERENCES

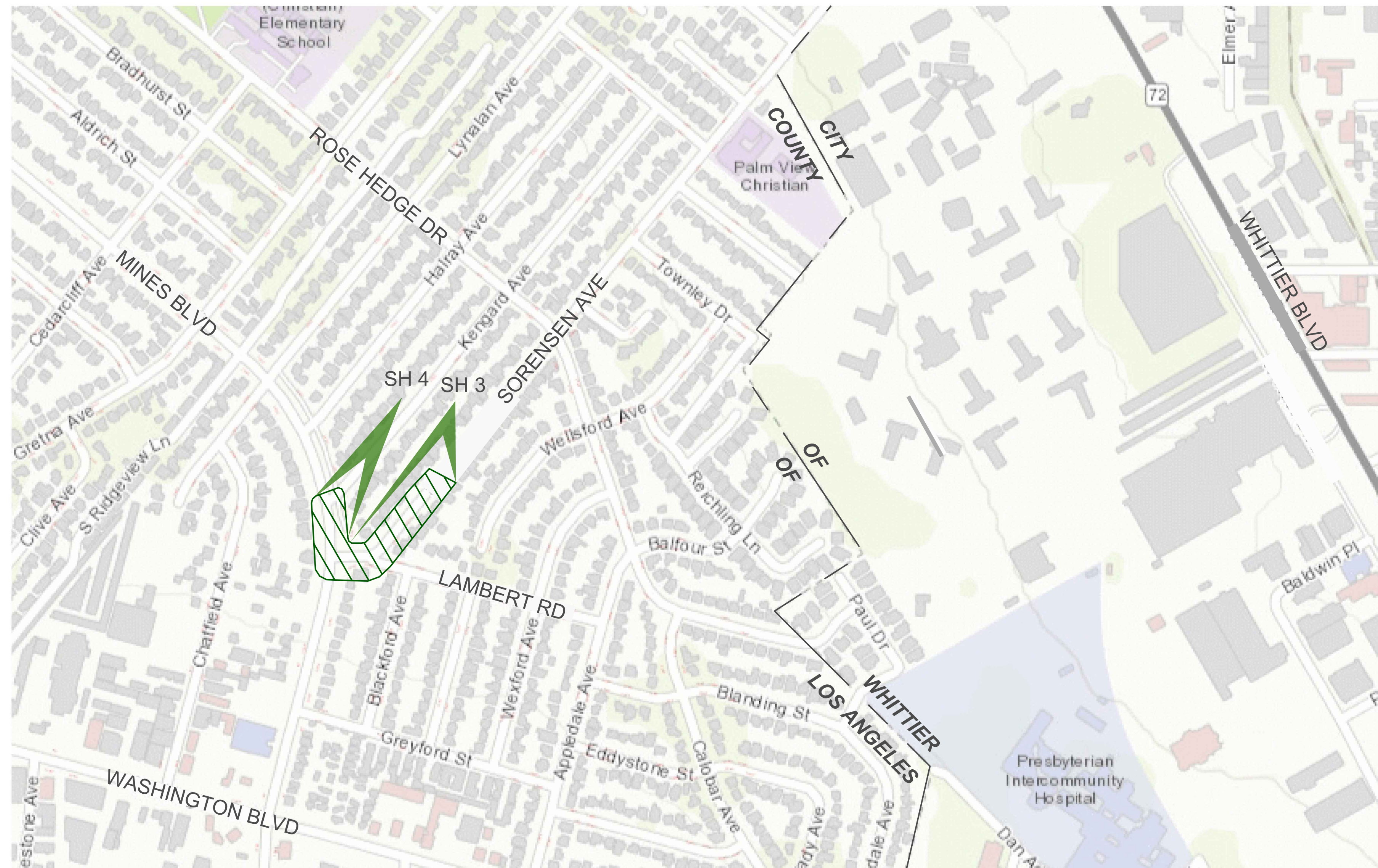
AS-BUILT PLANS (DRAINAGE).....LACFCD INDEX NO. 275-530-D2.13
 (LACPW DWG NO. PD031026)
 AS-BUILT PLANS (ROADWAY).....LACPW DWG NO. PH066068
 AS-BUILT PLANS (SEWER).....PRIVATE CONTRACT NO. 1439
 GEOTECHNICAL REPORT.....DATED 7/16/20
 POTHOLE REPORT.....DATED 9/23/20
 SURVEY FIELD NOTES.....MICHAEL BAKER INTERNATIONAL-
 PROJECT NO. PW15225-016
 RECORD OF SURVEY BOOK 324: PAGES 46-48

UTILITIES

CABLE.....CHARTER COMMUNICATIONS
 FRONTIER COMMUNICATIONS
 GAS.....SOUTHERN CALIFORNIA GAS COMPANY
 SEWER.....LOS ANGELES COUNTY PUBLIC WORKS
 SEWER MAINTENANCE DIVISION
 WATER.....SAN GABRIEL VALLEY WATER COMPANY
 SUBURBAN WATER SYSTEM



PROJECT SITE
 TG: 677 A7
 RD: 446



KEY MAP
 NOT TO SCALE

PRIME CONTRACTOR LICENSE REQUIRED: CLASS A OR C-42.

PLAN DR

CADD PROJECT FILE NAME
 SORENSEN.DGN
 CHECKER
 D. RADLE
 DESIGNER
 C. RAYE
 DRAFTER
 L. CHAVEZ

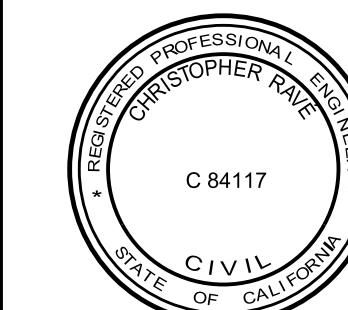


APPROVED BY MARK PESTRELLA, DIRECTOR OF PUBLIC WORKS:

Mark Pestrella 01/21/2021
 ASSISTANT DEPUTY DIRECTOR DATE

APPROVED BY:
Lahid Alashgdy 1/13/2021
 DESIGN TEAM DATE

DATE	MK	DESCRIPTION



Christopher Raye 1/13/21
 PROJECT ENGINEER DATE

LOS ANGELES COUNTY PUBLIC WORKS	
PROJECT NO. 530 LOS NIETOS, LINE D, SORENSEN LATERAL	
TITLE SHEET	
PROJECT ID NO. FCC0001343	
LACFCD INDEX NO. 275-530-D7	PD053063
SHEET 1	OF 5

AS BUILT DRAWINGS

GENERAL NOTES

- STANDARD PLANS REFERENCED ARE PER THE STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (SPPWC) UNLESS OTHERWISE NOTED.
- ALL FIELD BOOK REFERENCES PERTAIN TO LOS ANGELES COUNTY PUBLIC WORKS FIELD BOOKS, UNLESS OTHERWISE NOTED.
- ELEVATIONS SHOWN ARE IN FEET BASED UPON LOS ANGELES COUNTY SANTA FE QUAD, 2005 ADJUSTMENT, NAVD 1988 DATUM. COORDINATES SHOWN ARE PER CCS83 ZONE 5 EPOCH 2017.50.
- ALL DISTURBED MONUMENTS AND BENCHMARK MARKERS WITHIN THE PROJECT LIMITS SHALL BE REPLACED AT THEIR PRE-CONSTRUCTION LOCATION AND ELEVATION UNLESS OTHERWISE DIRECTED BY THE AGENCY.
- STATIONS SHOWN ON THE PLANS ARE ALONG THE CENTERLINE OF CONDUIT.
- STATIONS AND INVERT ELEVATIONS OF PIPE INLETS SHOWN ON THE PROFILES ARE AT THE INSIDE FACE OF THE CONDUIT, UNLESS OTHERWISE SHOWN.
- REFER TO THIS SHEET FOR TYPICAL CATCH BASIN CONNECTOR PIPE PROFILE.
- PIPE CONNECTIONS TO STORM DRAIN SHALL CONFORM TO SPPWC STANDARD PLAN NO. 335, UNLESS OTHERWISE NOTED.
- ALL PIPE IN OPEN TRENCH SHALL BE BEDDED ACCORDING TO LACPW STANDARD PLAN 3080, CASE 3, UNLESS OTHERWISE NOTED. "W" VALUES SHALL BE AS SPECIFIED ON STANDARD PLAN 3080 FOR CASE 3 BEDDING, NOTES (a) AND (b). IF THE "W" VALUE AT THE TOP OF THE PIPE IS EXCEEDED, THE BEDDING SHALL BE MODIFIED AND/OR PIPE OF ADDITIONAL STRENGTH SHALL BE PROVIDED. THE PROPOSED MODIFICATION SHALL BE APPROVED BY THE AGENCY.
- CONCRETE BACKFILL SHALL BE PROVIDED AROUND PIPE 21 INCHES IN DIAMETER OR LESS WHERE THE COVER IS EQUAL TO OR LESS THAN 2'-0", AROUND PIPE GREATER THAN 21 INCHES IN DIAMETER BUT LESS THAN 39 INCHES WHERE THE COVER IS LESS THAN 1'-3", AND FOR PIPE 39 INCHES OR GREATER WHERE THE COVER IS LESS THAN 1'-0". THE CONCRETE BACKFILL SHALL BE AS SPECIFIED ON LACPW STANDARD PLAN 3080, NOTE 4.
- CATCH BASIN MANHOLE SHALL BE LOCATED ON THE OPPOSITE SIDE OF THE CONNECTOR PIPE OUTLET.
- MANHOLES SHALL USE SPPWC STANDARD PLAN NO. 312 OR 633 FOR THE "FRAME AND COVER," WHICHEVER APPLIES, AND 635 FOR THE "STANDARD DROP STEP". STORM DRAIN MANHOLE COVERS SHALL BE CAST WITH THE LETTER "D" AT THE CENTER OF THE COVER WITH A 2.5-INCH LETTER HEIGHT. AGENCY NAME SHALL BE CAST ABOVE THE LETTER "D" FOR STORM DRAIN MANHOLE COVERS AND CAST AT THE CENTER OF THE COVER FOR CATCH BASIN MANHOLE COVERS. AGENCY NAME SHALL INCLUDE THE LETTERS "LACFCD" IF OWNED BY LACFCD, AND SHALL INCLUDE "LACPW" IF NOT OWNED BY LACFCD. THE LETTER SIZE FOR THE AGENCY NAME SHALL BE 1-INCH HIGH.
- ALL MANHOLE COVERS SHALL BE FURNISHED WITH PICK HOLE PLUGS. PICK HOLE PLUG SHALL BE MOLDED, CUT, OR EXTRUDED FROM A HIGH QUALITY RUBBER. IF THE PLUG IS CUT, IT SHALL HAVE A MINIMUM TENSILE STRENGTH OF 800 PSI. IF THE PLUG IS EXTRUDED, IT SHALL HAVE A MINIMUM TENSILE STRENGTH OF 1200 PSI AND SHALL HAVE A HARDNESS BETWEEN 55 AND 65 THE PICK HOLE PLUG SHALL BE APPROPRIATELY SIZED FOR THE SIZE OF THE PICK HOLE.
- STEEL STEPS PLACED IN 24" DIAMETER MANHOLE SHAFTS SHALL HAVE A WIDTH OF 16", DEPTH OF 5", AND SPACING OF 12". ALL OTHER STEEL STEPS PLACED SHALL HAVE A WIDTH OF 16", DEPTH OF 7", AND SPACING OF 12".
- MANHOLES 321 SHALL HAVE A 36" DIAMETER SHAFT PER STD PLAN 326.
- LOCATIONS OF CATCH BASIN CONNECTOR PIPE JUNCTIONS WITH CATCH BASINS, AS SHOWN ON THE PLANS, ARE SCHEMATIC. IT IS INTENDED THAT SUCH JUNCTIONS BE LOCATED AT THE DOWNSTREAM ENDS OF THE CATCH BASINS, UNLESS OTHERWISE INDICATED.
- MONOLITHIC CATCH BASIN CONNECTIONS, IF APPLICABLE, SHALL BE CONSTRUCTED PER SPPWC STANDARD PLAN NO. 308.
- FOR LOCAL DEPRESSION, SPPWC STANDARD PLAN NO. 313 SHALL BE USED. UNLESS OTHERWISE NOTED, H SHALL EQUAL 2 INCHES FOR CASE E.
- THE EXISTING PAVEMENT ADJACENT TO LOCAL DEPRESSIONS OR OTHER IMPROVEMENTS SHALL BE REMOVED AND REPLACED TO A MINIMUM OF 2 FEET FROM THE STRUCTURE.
- ALL RESURFACING, CURBS, GUTTERS, DRIVEWAYS, AND OTHER EXISTING IMPROVEMENTS TO BE RECONSTRUCTED SHALL BE CONSTRUCTED AT THE SAME ELEVATION AND LOCATION AS THE EXISTING IMPROVEMENTS, UNLESS OTHERWISE NOTED.
- COMPACTION EQUIPMENT USED TO PLACE BACKFILL MUST NOT EXCEED 35,000 LBS.
- ALL GALVANIZED STEEL SHALL BE HOT DIPPED.
- ALL ANCHOR BOLTS SHALL BE GALVANIZED AND HOT DIPPED.
- ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE THE PROPERTY OF THE OWNERS LISTED ON SHEET 1, UNLESS OTHERWISE NOTED.
- EXISTING UTILITIES SHALL BE MAINTAINED IN PLACE BY THE CONTRACTOR, UNLESS OTHERWISE NOTED, AND ALL UTILITIES CROSSING THE TRENCH SHALL BE TEMPORARILY SUPPORTED TO THE SATISFACTION OF THE OWNER.
- WHEN INDICATED ON THE PROJECT PLANS, SANITARY SEWERS AND HOUSE CONNECTIONS SHALL BE PROTECTED PER SPPWC STANDARD PLAN NO. 225.
- WITHIN THE PROJECT LIMITS, THE CONTRACTOR SHALL INSTALL A BLUE RAISED RETROREFLECTIVE PAVEMENT MARKER (RPM) ON THE FINISHED SURFACE AT EACH FIRE HYDRANT LOCATION PER CALIFORNIA 2014 MUTCD PART 3, FIGURE 3B-102 (CA), AS DESCRIBED IN THE SPECIAL PROVISIONS.
- TREES NOT INTERFERING WITH CONSTRUCTION SHALL BE PROTECTED IN PLACE.

NON-STANDARD ABBREVIATIONS

ABBREVIATION	WORD OR WORDS
ADJ	ADJUSTMENT
AH	AHEAD
AP	ANGLE POINT
AVE	AVENUE
BI	BOND ISSUE
BK	BACK
BLVD	BOULEVARD
BM	BENCHMARK
C&G	CURB AND GUTTER
CA	CALIFORNIA
CCS83	CALIFORNIA COORDINATE SYSTEM OF 1983
COR	CORNER
DN	DOWN
DR	DRIVE
DWG	DRAWING
DWY	DRIVEWAY
E	EAST, EASTING
E/O	EAST OF
E'LY	EASTERLY
ELEV	ELEVATION
EX	EXISTING
FD	FOUND
FS	FINISHED SURFACE
GC	GRADE CHANGE
HC	HOUSE CONNECTION
HGL	HYDRAULIC GRADE LINE
HOR	HORIZONTAL
ID	IDENTIFICATION
IDS	INSIDE DIAMETERS
INV	INVERT
JS	JUNCTION STRUCTURE
L&T	LEAD AND TACK
LACPW	LOS ANGELES COUNTY PUBLIC WORKS
LACFCD	LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
LD	LOCAL DEPRESSION
LF	LINEAR FEET
LN	LANE
LT	LEFT
MH	MANHOLE
MOC	MIDDLE OF CURVE
MOD	MODIFICATION
MTL	MATERIAL
N	NORTHING
N/O	NORTH OF
NAVD	NORTH AMERICA VERTICAL DATUM
NE	NORTHEAST
OC	ON CURVE
OD	OUTSIDE DIAMETER
PI	POINT OF INTERSECTION
POC	POINT ON CURVE
PRC	POINT OF REVERSE CURVATURE
RAD	RADIAL
RESURF	RESURFACE
RD	ROAD, ROAD DIVISION
RT	RIGHT
RU	UTILITY TO BE RELOCATED BY OWNER
S	SLOPE
SH	SHEET
ST	STREET
STA	STATION
SWR	SEWER
TBS	TRENCH BACKFILL SLURRY (CLASS 270-E-500)
TC	TOP OF CURB
TG	THOMAS GUIDE
U/S	UPSTREAM
VAR	VARIES
W/	WITH
W/O	WEST OF
W'LY	WESTERLY
#	NUMBER

AC PAVEMENT CLASS AND GRADE LEGEND

P1	C2-PG 64-10 B-PG 64-10
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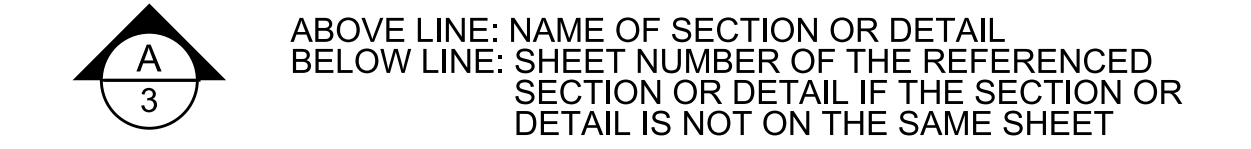
CONVENTIONAL SYMBOLS

	EXISTING TOPOGRAPHY	PROPOSED IMPROVEMENTS
CURB	---	---
CURB AND GUTTER	---	---
GUTTER	---	---
PAVEMENT CONCRETE	---	---
AC	---	---
FENCE	---	---
DRIVEWAY	---	---
FIRE HYDRANT	---	---
GUARDRAIL	---	---
MANHOLE	---	---
POLE	---	---
PROPERTY LINE	---	---
R/W LINE (LACFCD)	---	---
R/W LINE (ROAD)	---	---
PULL BOX	---	---
SIGNAL CONTROL BOX	---	---
STREET LIGHT	---	---
PALM TREE	---	---
OTHER TREE	---	---
WATER VALVE/METER	---	---
VAULT	---	---
BRICK (BLOCK) WALL	---	---
CONCRETE WALL	---	---
SEWER	---	---
TOP OF SLOPE	---	---
TOE OF SLOPE	---	---

STANDARD PLANS

NO.	DESCRIPTION
SPPWC, 2012 EDITION	
100-2	TOPOGRAPHY SYMBOLS AND STANDARD ABBREVIATIONS
101-2	ABOVE-GROUND UTILITIES LOCATION IN PARKWAY
112-2	CURB AND SIDEWALK JOINTS
120-2	CURB AND GUTTER - BARRIER
133-3	ASPHALT CONCRETE PAVEMENT REPLACEMENT
223-2	HOUSE CONNECTION REMODELING
224-2	SUPPORTS FOR CONDUITS ACROSS TRENCHES
225-2	BLANKET PROTECTION FOR PIPES
300-3	CURB OPENING CATCH BASIN
308-2	MONOLITHIC CATCH BASIN CONNECTION
309-2	CATCH BASIN REINFORCEMENT
310-3	CATCH BASIN FACE PLATE ASSEMBLY AND PROTECTION BAR
312-4	CATCH BASIN MANHOLE FRAME AND COVER
313-3	LOCAL DEPRESSIONS AT CATCH BASINS
314-3	MODIFICATION FOR SIDE OPENING CATCH BASIN
321-2	MANHOLE PIPE-TO-PIPE (ONE OR BOTH MAIN LINE IDS = 33" OR SMALLER)
326-2	MANHOLE SHAFT - 36" WITHOUT REDUCER
331-3	JUNCTION STRUCTURE - PIPE TO PIPE (INLET ID > 24" OR INLET OD > 1/2 MAIN LINE ID)
335-2	PIPE CONNECTIONS TO EXISTING STORM DRAINS
380-4	CONCRETE COLLAR FOR RCP 12" THROUGH 72"
633-4	36" MANHOLE FRAME AND COVER
635-3	STEEL STEP
LACPW, 2000 EDITION	
3080-3	PIPE BEDDING IN TRENCHES
3090-1	CRITERIA FOR THE DESIGN OF SHORING FOR EXCAVATIONS
3091-1	SAMPLE SHEET FOR USE AS A GUIDE IN PREPARING CALCULATIONS FOR SHORING OF EXCAVATIONS
3093-1	UNIFIED SOIL CLASSIFICATION SYSTEM
6002-1	PORTABLE SECURITY FENCE FOR OPEN TRENCHES
6008-1	MINIMUM PUBLIC SAFETY REQUIREMENT FOR OPEN EXCAVATIONS

CONSTRUCTION SYMBOLS

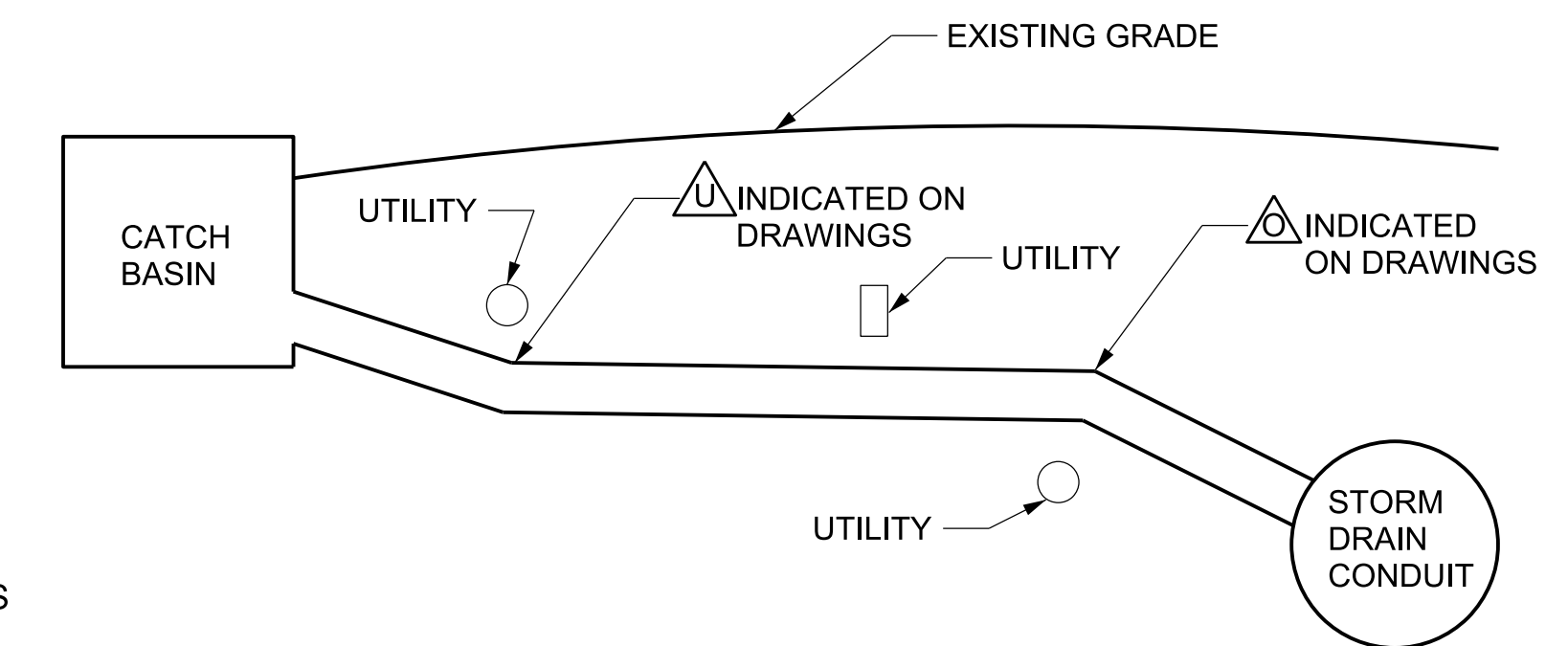


CONSTRUCTION NOTES

- THICKNESS OF PAVEMENT AND BASE MATERIAL WITHIN THE LIMITS OF TRENCH EXCAVATION ARE INDICATED ON PLAN IN THE RESURFACING SCHEDULE TABLE.
- ALL PAVEMENT REMOVALS SHALL USE STRAIGHT LINE SAW CUTS A MINIMUM OF 1.5" DEEP.
- AC PAVEMENT CONSTRUCTION FOR ANY TRENCH RESURFACING SHALL EXTEND A MINIMUM OF 12" BEYOND ANY TRENCH WALL (SEE TYPICAL PIPE TRENCH DETAIL ON SHEET 4). IF REMAINING AC PAVEMENT BETWEEN EDGE OF TRENCH RESURFACING AND EXISTING GUTTER, CURB, CROSS GUTTER, OR CUT LINE IS LESS THAN 12 INCHES IN WIDTH, THE REMAINING AC PAVEMENT SHALL BE COLD MILLED 1.5" AND REPLACED.
- ALL AFFECTED TRAFFIC STRIPING, CURB AND PAVEMENT MARKINGS, PAVEMENT MARKERS, AND LOOP DETECTORS SHALL BE REPLACED TO MATCH EXISTING UNLESS OTHERWISE NOTED.
- ANY MAIN LINE SEWERS, MANHOLES, OR HOUSE CONNECTIONS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THEIR EXPENSE TO THE SATISFACTION OF THE COUNTY ENGINEER.

NOTES

- THE CHANGE IN GRADE OF THE CONNECTOR PIPE SHALL OCCUR EITHER OVER OR UNDER EXISTING UTILITY. THE PARTICULAR UTILITY, AT WHICH THE CHANGE IN GRADE OCCURS, IS NOTED ON THE PROJECT PLANS. AT LOCATIONS WHERE UTILITY CROSSINGS ARE MARKED Δ , THE CONNECTOR PIPE GRADE SHALL BREAK OVER THE UTILITY. AT LOCATIONS WHERE UTILITY CROSSINGS ARE MARKED ∇ , THE CONNECTOR PIPE GRADE SHALL BREAK UNDER THE UTILITY.
- ON THOSE CONNECTOR PIPES WHERE CHANGE IN GRADE IS NOT INDICATED, IT IS ASSUMED THAT THE CONNECTOR PIPE SHALL BE LAID ON A STRAIGHT GRADE FROM THE CATCH BASIN TO THE STORM DRAIN WITHOUT INTERFERENCE WITH UTILITIES.
- THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS TO DETERMINE THE EXACT LOCATION AND DEPTH OF UTILITIES THAT ARE MARKED Δ OR ∇ , EXCEPT SANITARY SEWER UTILITIES. AFTER THE EXACT LOCATION A UTILITY HAS BEEN DETERMINED, THE GRADE AND ALIGNMENT OF THE CONNECTOR PIPE SHALL BE STAKED SO AS TO CLEAR THE UTILITY.
- WHERE CONNECTOR PIPE HAS A GRADE CHANGE EXCEEDING 0.10 FEET PER FOOT, OR DIFFERS IN DIAMETER FROM THAT OF EXISTING PIPE, USE CONCRETE COLLAR PER STANDARD PLAN 380.
- LOCATIONS OF TEST WELLS FOR THE BORING LOGS ARE SHOWN AND MARKED ON PLANS WITH THE SYMBOL \oplus .



TYPICAL CONNECTOR PIPE PROFILE
NOT TO SCALE

PLAN DR

CAD PROJECT FILE NAME: SORENSEN.DGN
 CHECKER: D. RADLE
 DESIGNER: C. RAVE
 DRAFTER: L. CHAVEZ

DATE	MK	DESCRIPTION

PROJECT ENGINEER: Christopher Rave
DATE: 1/13/21

LOS ANGELES COUNTY PUBLIC WORKS

PROJECT NO. 530 LOS NIETOS, LINE D, SORENSEN LATERAL

CONSTRUCTION GENERAL INFORMATION

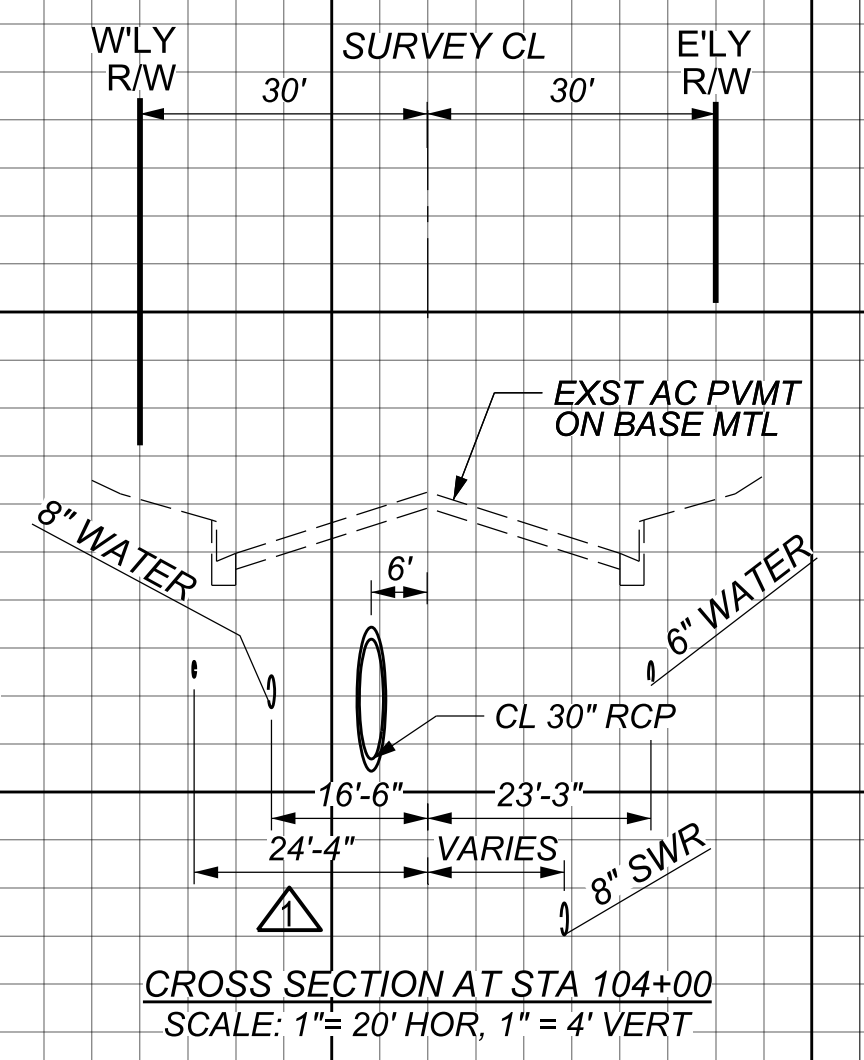
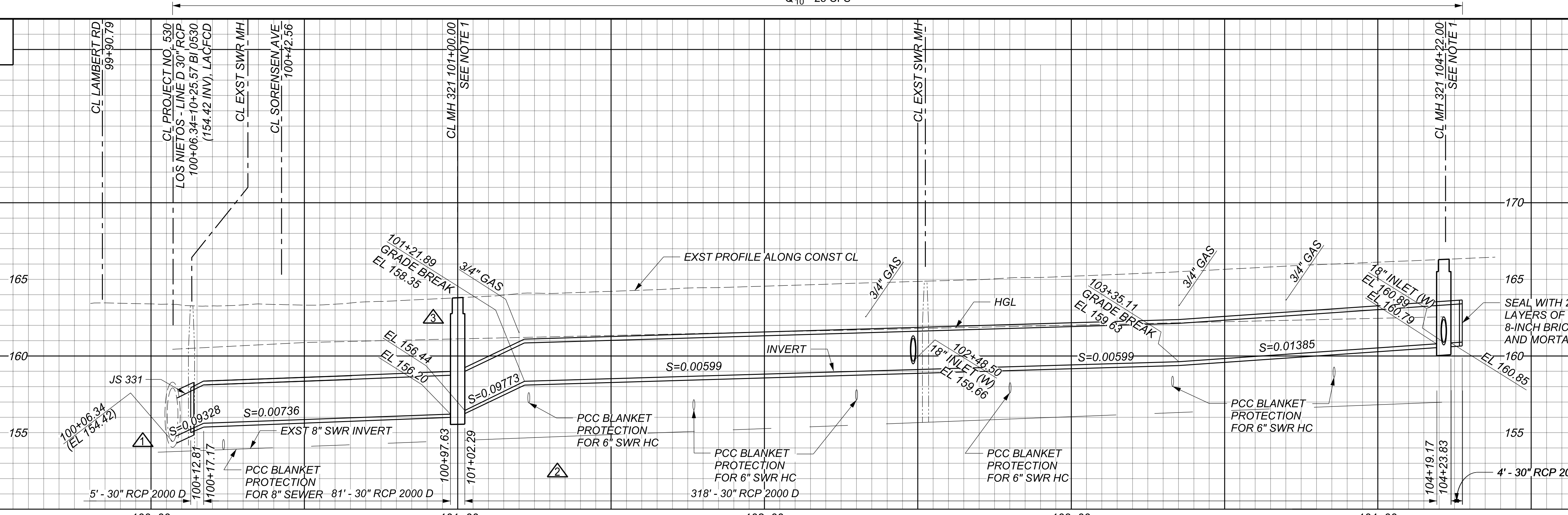
PROJECT ID NO. FCC0001343

LACFCD INDEX NO. 275-530-D7 PD053063 SHEET 2 OF 5

AS BUILT DRAWINGS

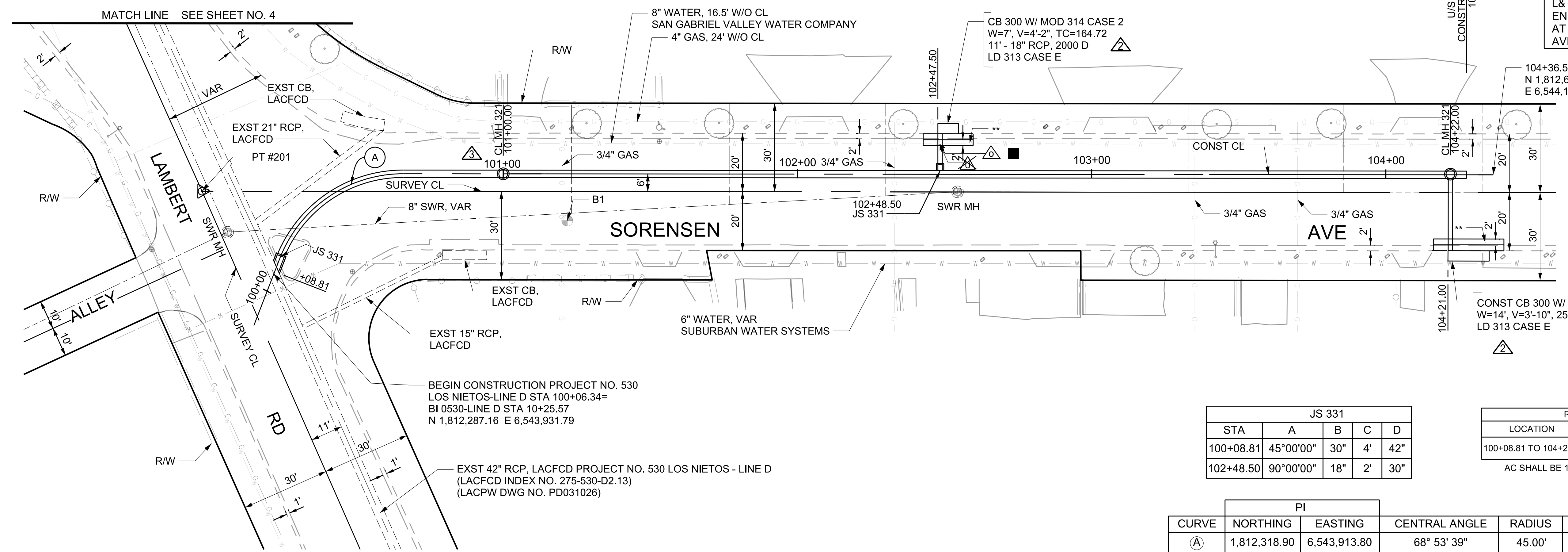
Q₁₀ = 25 CFS

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



BENCH MARK
 BM #Y11893
 L&T IN E CURB 17' N/O
 END OF CURB RETURN
 AT NE COR SORENSEN
 AVE & MINES BLVD

NAVD 1988
 SANTA FE 2005 ADJ
 EL=162.887
 N 1,812,286.03
 E 6,543,894.61



NOTES:
 1. MANHOLES ALONG SORENSEN AVENUE SHALL HAVE A 36\"/>

JS 331

STA	A	B	C	D
100+08.81	45°00'00"	30"	4'	42"
102+48.50	90°00'00"	18"	2'	30"

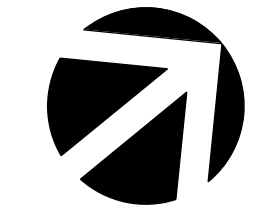
RESURFACING SCHEDULE

LOCATION	EXIST PVMT	RESURF PVMT
100+08.81 TO 104+27.50	8" AC ON 6" CMB	8" AC ON 6" CMB

AC SHALL BE 1.5" OF C2-PG 64-10 ON 6.5" OF B-PG 64-10.

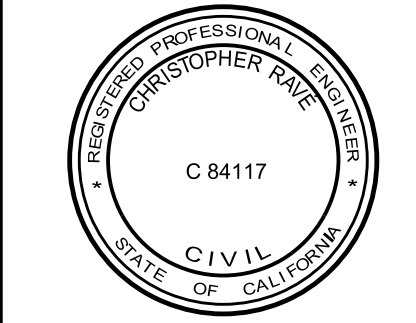
PI

CURVE	NORTHING	EASTING	CENTRAL ANGLE	RADIUS	TANGENT	LENGTH	BC	EC
(A)	1,812,318.90	6,543,913.80	68° 53' 39"	45.00'	30.87'	54.11'	100+11.95	100+66.06



NORTH
 PLAN
 SCALE: 1" = 20'

DATE	MK	DESCRIPTION
01/04/23	■	AS-BUILT REVISIONS
05/02/22	▲	UPDATED LOCATION OF MANHOLE ON PROFILE AND PLAN.
04/18/22	▲	UPDATED 30" RCP PROFILE TO AVOID CONFLICTS WITH UTILITIES. UPDATED GAS LINE DEPTHS DUE TO RELOCATIONS. UPDATED CB DEPTHS.
02/03/22	▲	UPDATED PROFILE AND REMOVED CONCRETE COLLAR. UPDATED LOCATION OF GAS AND WATER LINES.



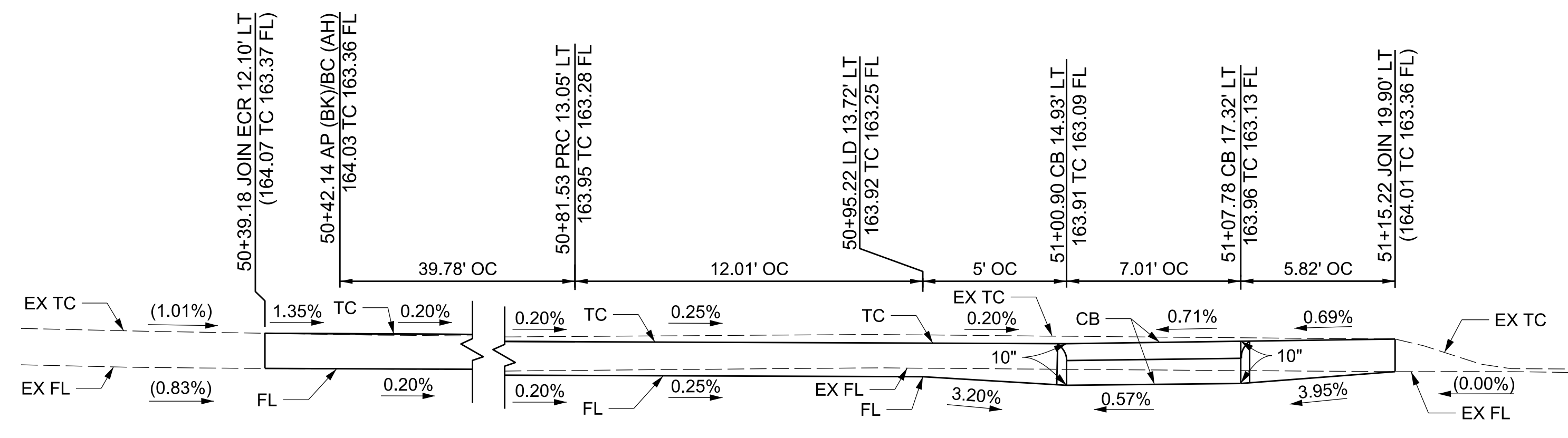
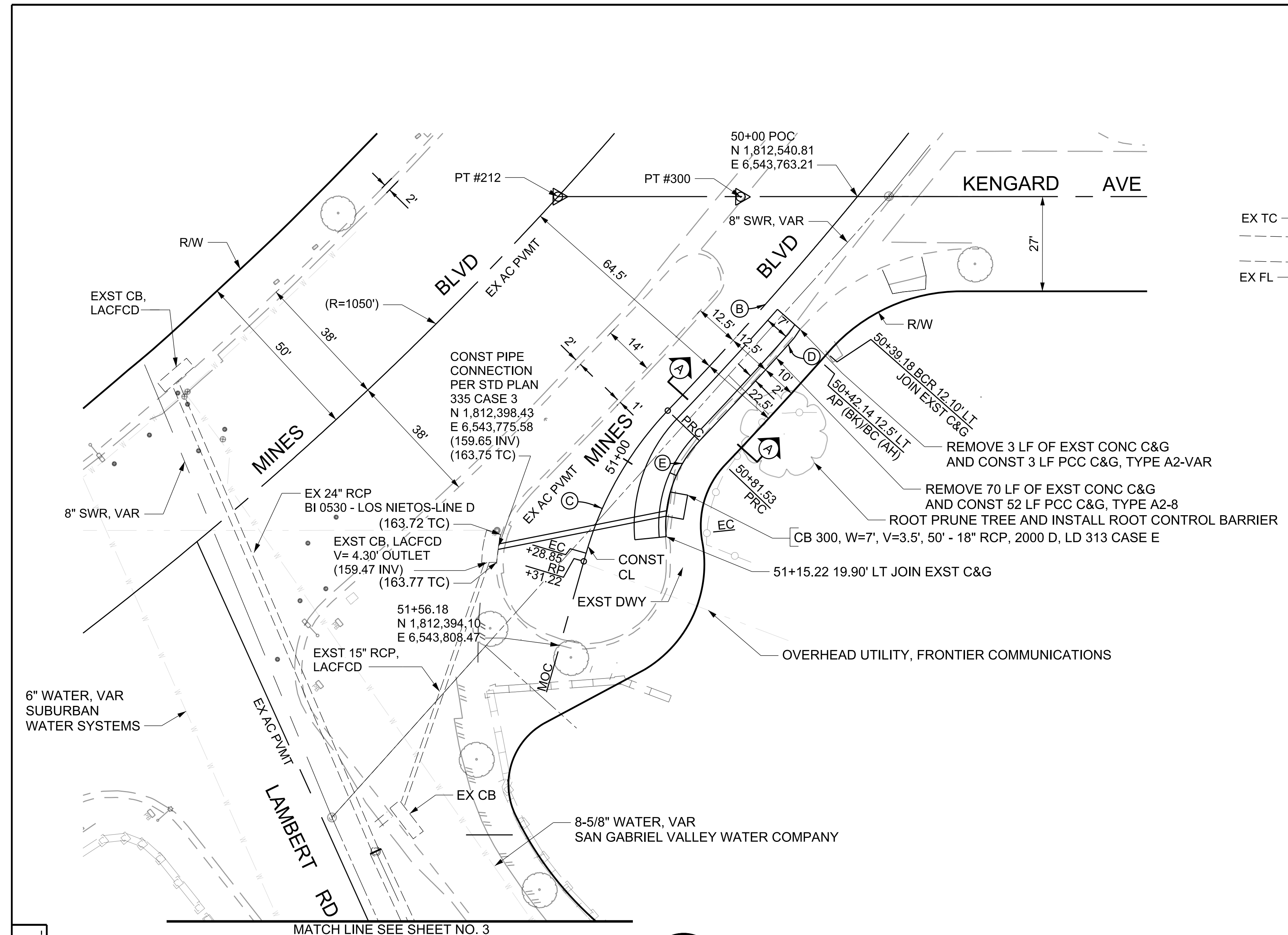
LOS ANGELES COUNTY PUBLIC WORKS
PROJECT NO. 530 LOS NIETOS, LINE D, SORENSEN LATERAL
 PLAN AND PROFILE
 PROJECT ID NO. FCC0001343

DATE: 01/13/21
 PROJECT ENGINEER: Christopher R. Ramey

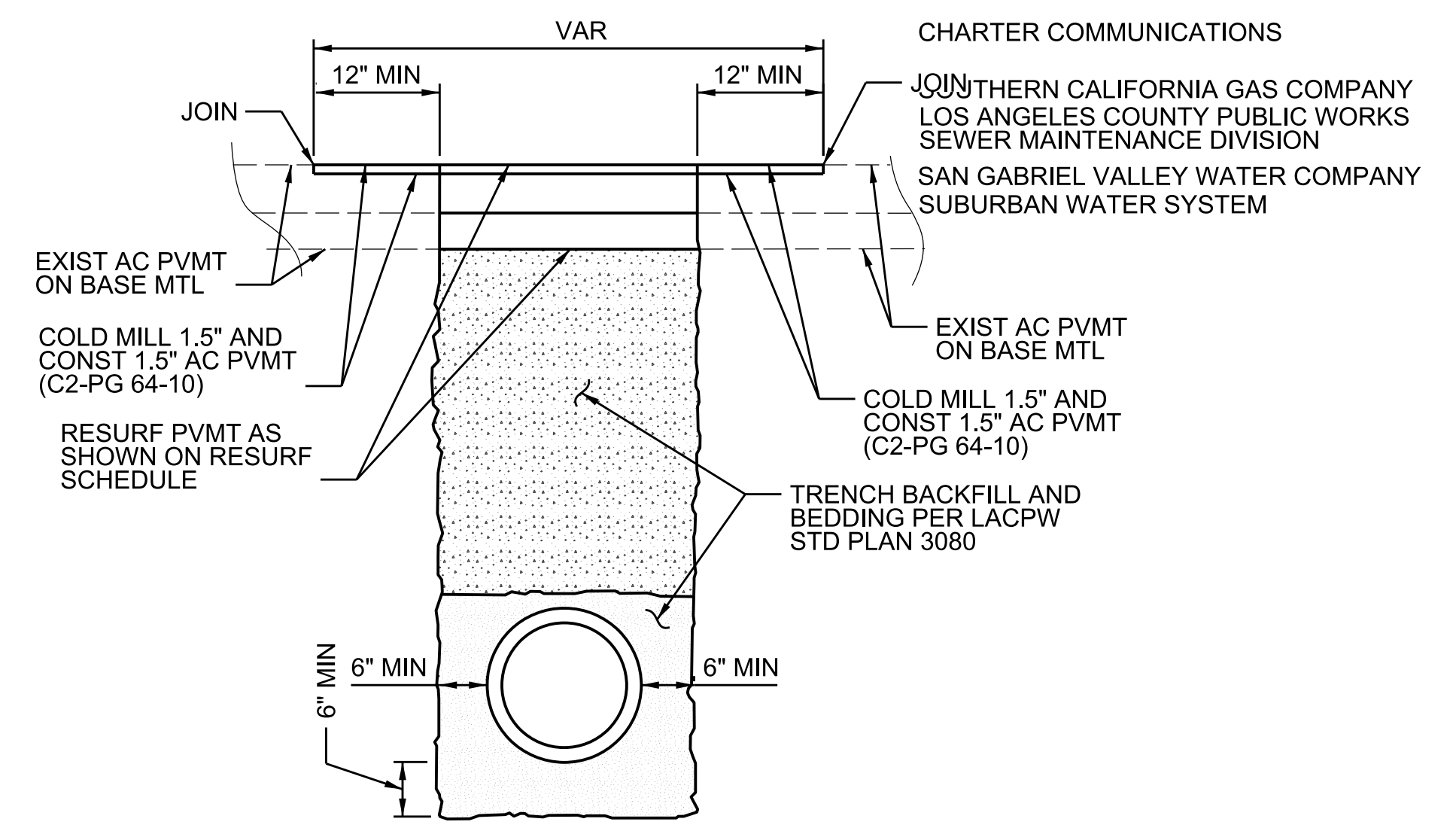
LACFCD INDEX NO. 275-530-D7 PD053063 SHEET 3 OF 5

CAD PROJECT FILE NAME: SORENSEN.DGN
 CHECKER: D. RADLE
 DESIGNER: C. RAVE
 DRAFTER: L. CHAVEZ

AS BUILT DRAWINGS

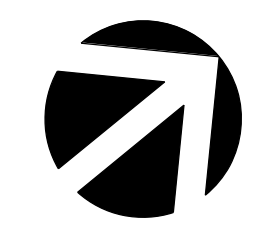


PROFILE
NO SCALE



TYPICAL PIPE TRENCH DETAIL
NO SCALE

BENCH MARK	NAVD 1988
BM #Y11893	SANTA FE 2005 ADJ
L&T IN E CURB 17' N/O	EL=162.887
END OF CURB RETURN	N 1,812,286.03
AT NE COR SORENSEN	E 6,543,894.61
AVE & MINES BLVD	



NORTH
PLAN

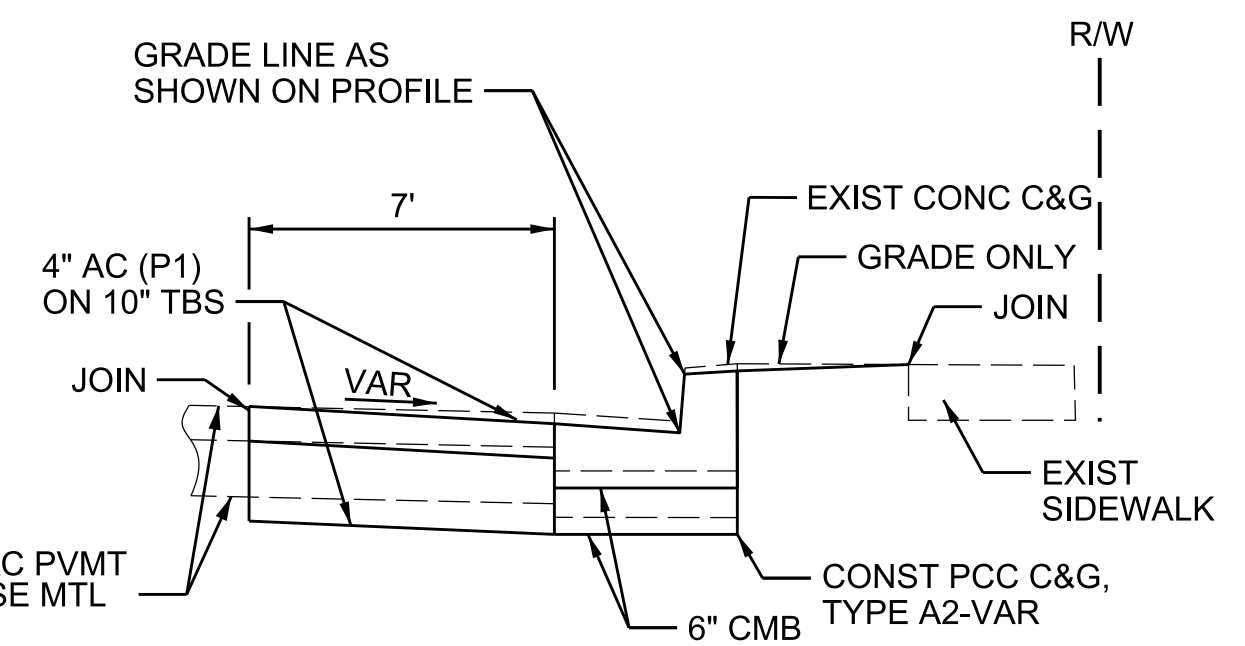
SCALE: 1" = 20'



PI						
CURVE	NORTHING	EASTING	CENTRAL ANGLE	RADIUS	TANGENT	LENGTH
(B)	1,812,500.81	6,543,771.16	4° 11' 28"	1114.50'	40.78'	81.53'
(C)	1,812,436.38	6,543,779.12	27° 42' 54"	97.84'	24.14'	47.33'
(D)	1,812,481.66	6,543,786.12	2° 01' 21"	1127.00'	19.89'	39.78'
(E)	1,812,440.92	6,543,782.11	48° 51' 07"	35.00'	15.90'	29.84'

RESURFACING SCHEDULE		
LOCATION	EXIST PVMT	RESURF PVMT
50+38.83 TO 51+13.87	4" AC ON 6" CMB	4" AC ON 10" TBS

AC SHALL BE 1.5" OF C2-PG 64-10 ON 2.5" OF B-PG 64-10.

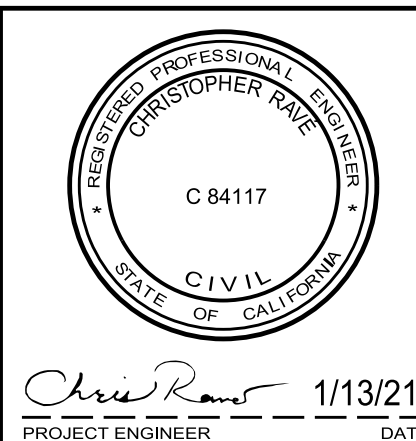


SECTION A-A
NOT TO SCALE

CADD PROJECT FILE NAME: SORENSEN.DGN
 CHECKER: D. RADLE
 DESIGNER: C. RAVE
 DRAFTER: L. CHAVEZ

PLAN DR

DATE	MK	DESCRIPTION
REVISIONS		



LOS ANGELES COUNTY PUBLIC WORKS

PROJECT NO. 530 LOS NIETOS, LINE D, SORENSEN LATERAL

PLAN

PROJECT ID NO. FCC0001343

LACFCD INDEX NO. 275-530-D7 PD053063 SHEET 4 OF 5

AS BUILT DRAWINGS

BORING NUMBER B1
PAGE 1 OF 2

Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division
900 South Fremont Avenue, Alhambra, CA 91803

CLIENT Design Division (DES) PROJECT NAME Sorensen Avenue Drainage Improvements
PROJECT NUMBER EF11219005 PROJECT LOCATION Unincorporated West Whittier/ Los Nietos

Drilling Contractor: Gregg Drilling	Boring Location: 7626 Sorensen Avenue	Drilled Total Depth: 71.5 ft.	Logged By: HR
Drilling Method: Hollow Stem Auger	Lat. and Long. Coordinates: 33.97249, -118.05833	Approximate Surface Elevation: 164 ft.	Checked By: JJU
Drill Rig Type: MARL M-11	Drill Bit Diameter: 8 in.	Depth to Groundwater: 63 ft.	Inclination/Bearing (°): -90
Hammer Description: Weight: 140 lbs, Drop Height: 30 in.	Finished Diameter: 8 in.	Dates(s) Drilled: 1/22/2020 to 1/22/2020	

ELEVATION (ft)	DEPTH (ft)	GRAPHIC	MATERIAL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	RECOVERY (%)	BLOW COUNTS (N VALUE)	COMMENTS	DRY UNIT WEIGHT (pcf)	MOISTURE CONTENT (%)	#4 SIEVE (% PASS)	LIQUID LIMIT	PLASTIC LIMIT	PLASTIC INDEX	#200 SIEVE (% PASS)
0	0		5" ASPHALT CONCRETE (AC) 14" BASE CLAY (CL) Dark brown, moist; Fine SAND.		AU 1B			Start at 08:00 AM							
160	5		SILTY CLAYEY (SC-SM) Soft, dark brown, moist; Low plasticity.	MC	1R	100	2-2-1 (3)		104	16.8	56	24	19	5	44
155	10		SILTY SAND (SM) Loose, brown, dry; Fine SAND; No plasticity.	MC	2R	100	4-4-5 (9)		104	12.0	72				28
150	15		POORLY GRADED SAND (SP-SM) Medium dense, grayish, dry; Fine to medium SAND.	MC	3R	100	7-1-1 8 (19)		89	16.1	90				10
145	20		CLAY (CL) Medium stiff, dark brown, dry; Low plasticity.	SPT	4R	100	2-2-3 (5)								
140	25		Very stiff, dark brown; dry; Low plasticity.	MC	5R	100	6-10-15 (29)								
135	30		Very stiff, brownish reddish, dry; Low plasticity; Some SILT.	SPT	6R	100	5-1-1 14 (25)		36	27	16	11			64
130	35			MC	7R	100	7-1-3 12 (25)								
125	40														

(Continued Next Page)

BORING NUMBER B1
PAGE 2 OF 2

Los Angeles County Department of Public Works
Geotechnical and Materials Engineering Division
900 South Fremont Avenue, Alhambra, CA 91803

CLIENT Design Division (DES) PROJECT NAME Sorensen Avenue Drainage Improvements
PROJECT NUMBER EF11219005 PROJECT LOCATION Unincorporated West Whittier/ Los Nietos

ELEVATION (ft)	DEPTH (ft)	GRAPHIC	MATERIAL DESCRIPTION	SAMPLE TYPE	SAMPLE NUMBER	RECOVERY (%)	BLOW COUNTS (N VALUE)	COMMENTS	DRY UNIT WEIGHT (pcf)	MOISTURE CONTENT (%)	#4 SIEVE (% PASS)	LIQUID LIMIT	PLASTIC LIMIT	PLASTIC INDEX	#200 SIEVE (% PASS)
120	45		WELL GRADED SAND (SW) Very dense, brown, dry; Fine to coarse SAND.	MC	9R	50	28-50								
115	50		Very dense, light brown, dry; Fine to coarse SAND; Traces of fine GRAVEL.	SPT	10R	100	17-27-36 (63)								
110	55			MC	11R	89	25-45-50 (95)								
105	60		SILTY (ML) Very stiff, brown, moist; Low plasticity; Fine SAND.	SPT	12R	100	7-10-11 (21)								
100	65			MC	13R	56	18-50	Groundwater at 63 ft							
95	70		POORLY GRADED SAND (SP) Very dense, light brown, wet; Fine to medium SAND; Little fine GRAVEL.	SPT	14R	100	11-38-50 (88)	End at 12:40 PM							
90															
85			Boring terminated at target depth of 71.5 ft bgs. Groundwater encountered at 63 ft bgs. 0' - 8' bgs - Filled with bentonite. 8' - 60' bgs - Filled with cement grout. 60' - 71.5' bgs - Filled with bentonite.												
80															

CADD PROJECT FILE NAME: SORENSEN.DGN
 CHECKER: D. RADLE
 DESIGNER: C. RAVE
 DRAFTER: L. CHAVEZ

DATE	MK	DESCRIPTION



01/13/21

LOS ANGELES COUNTY PUBLIC WORKS

PROJECT NO. 530 LOS NIETOS, LINE D, SORENSEN LATERAL

LOG OF BORINGS

PROJECT ID NO. FCC0001343

LACFCD INDEX NO. 275-530-D7 PD053063 SHEET 5 OF 5

PLAN DR

AS BUILT DRAWINGS