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S:\Los Osos\Walnut Creek\Area B & C\C-G-001 04/02/12 DB:49 bullockl



RECOMMENDED FOR APPROVAL:
John Maddell 4/6/12
LOS OSOS WASTEWATER PROJECT MANAGER DATE

APPROVED:
Dave Flynn 4/6/12
DEPUTY DIRECTOR OF PUBLIC WORKS DATE

County of San Luis Obispo Los Osos, California

Drawings for the Construction of

Los Osos Wastewater Collection System Project Areas B & C

VOLUME III - AREA C

APRIL 2012

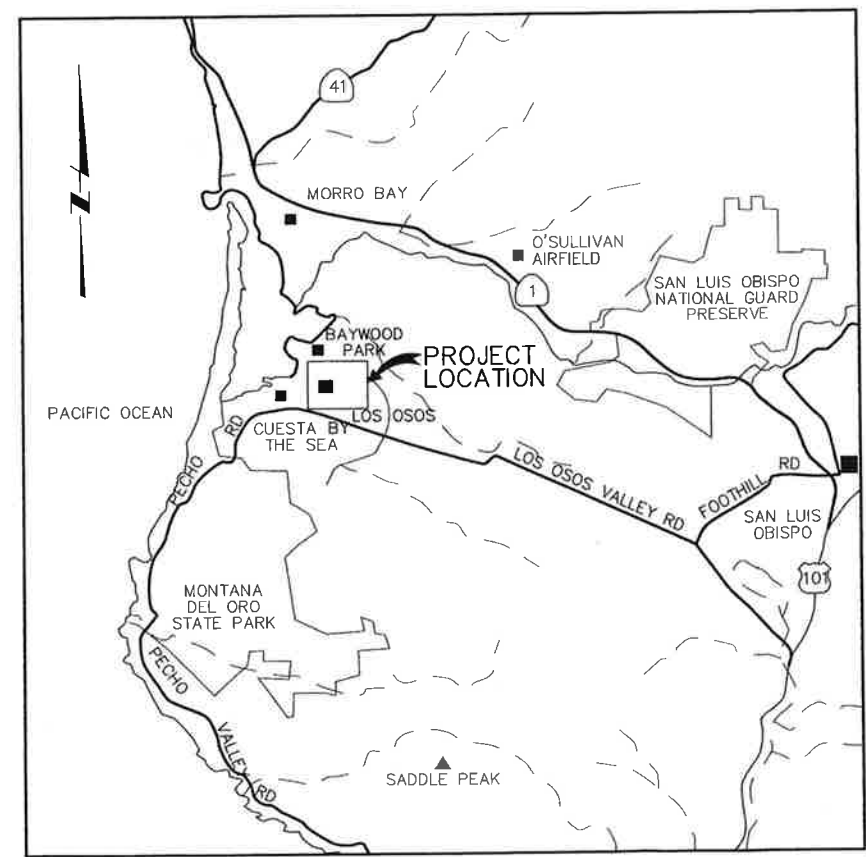


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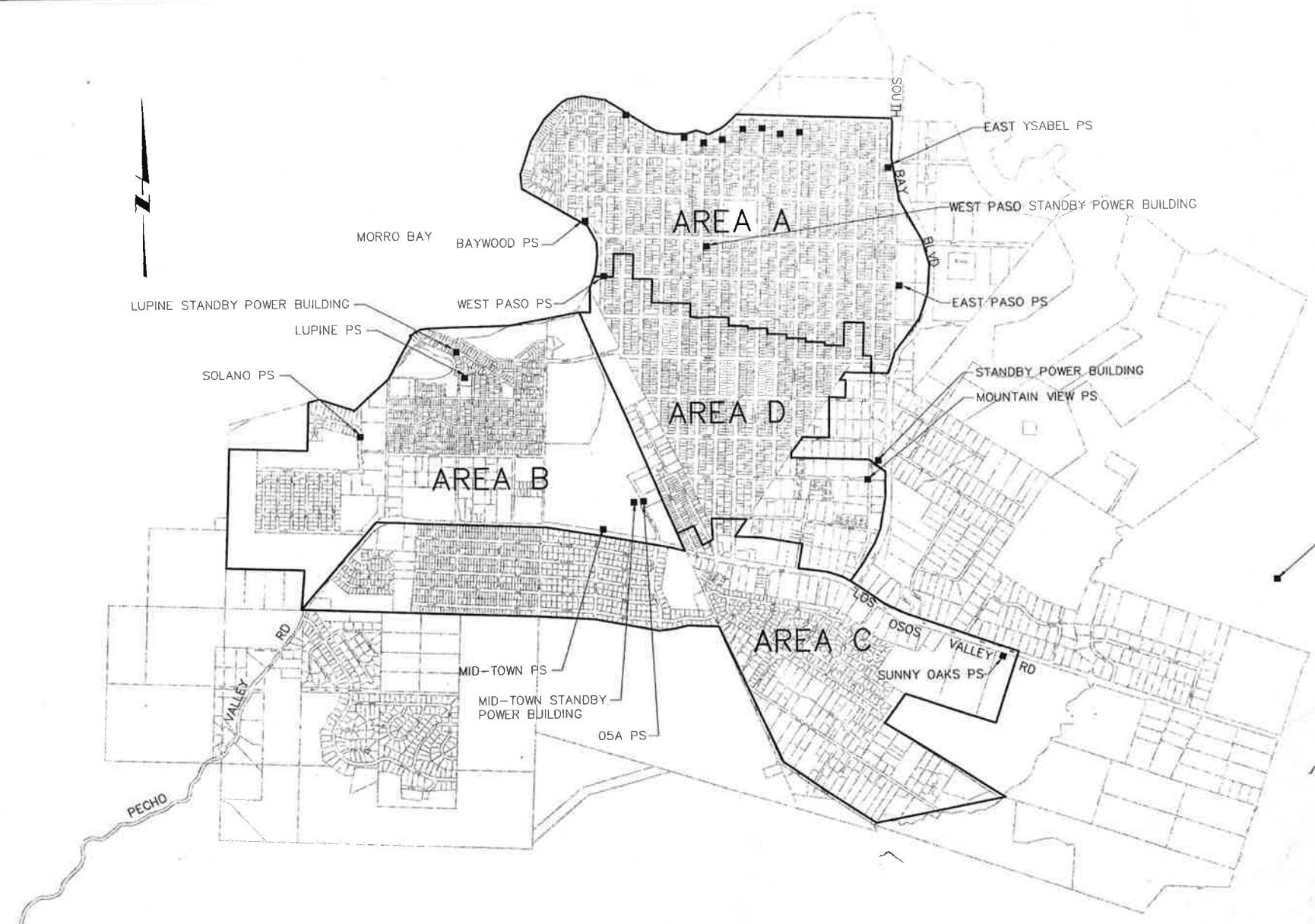
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LOCATION MAP



VICINITY MAP



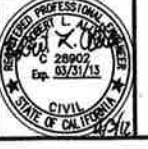
SITE PLAN

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: BJC
 DRAWN BY: WKT
 CHECKED BY: MDM
 DATE: APRIL, 2012



0 1/2 1
 IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY



LOS OSOS WASTEWATER COLLECTION SYSTEM
 LOCATION MAP, VICINITY MAP, AND SITE PLAN

PROJECT NO. 42502-8310
 FILE NAME: C-G-00
 SHEET NO.
C-G-002

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 S:\Los Osos\Without Creek\Area B & C\C-G-003 04/03/12 15:53 bullocki AREES; Lososos-bdr, Cg-RLA

LIST OF DRAWINGS

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- C-G-002 LOCATION MAP, VICINITY MAP, AND SITE PLAN
- C-G-003 AREA C LIST OF DRAWINGS
- C-G-004 GENERAL SURVEY DATA, AGENCY CONTACT INFORMATION
- C-G-005 NOT USED
- C-G-006 GENERAL AREA C KEY PLAN 1
- C-G-006A GENERAL AREA C KEY PLAN 2
- C-G-006B GENERAL AREA C KEY PLAN 3
- C-G-006C GENERAL AREA C KEY PLAN 4
- C-G-007 GENERAL EFFLUENT DISPOSAL SYSTEM - OVERALL KEY PLAN
- C-G-008 GENERAL POTHOLE DATA - 1
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- C-G-010 GENERAL NOTES
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TRAFFIC CONTROL

- C-TC-001 AREA C TRAFFIC CONTROL PLAN - GENERAL NOTES, LEGEND AND ABBREVIATIONS
- C-TC-002 AREA C TRAFFIC CONTROL PLAN - INDEX MAP
- C-TC-003 AREA C TRAFFIC CONTROL PLAN - DETAIL SHEETS: PAVEMENT MARKERS AND TRAFFIC LINES
- C-TC-004 AREA C TRAFFIC CONTROL PLAN - DETAIL SHEETS: PAVEMENT MARKINGS, ARROWS AND WORDS
- C-TC-005 AREA C TRAFFIC CONTROL PLAN - DETAIL SHEETS: DELINEATORS, CHANNELIZERS AND BARRICADES
- C-TC-006 AREA C TRAFFIC CONTROL PLAN - DETAIL SHEETS: CRASH CUSHIONS
- C-TC-007 AREA C TRAFFIC CONTROL PLAN - DETAIL SHEETS: TEMPORARY RAILING (TYPE K)
- C-TC-008 AREA C TRAFFIC CONTROL PLAN - DETAIL SHEETS: CALTRANS TRAFFIC CONTROL PLANS
- C-TC-009 AREA C TRAFFIC CONTROL PLAN - DETAILED PLAN AT PECHO AVE. AND DORIS AVE. INTERSECTIONS
- C-TC-010 AREA C TRAFFIC CONTROL PLAN - DETAILED PLAN AT ALEXANDER AVE. AND BRODERSON AVE. INTERSECTIONS
- C-TC-011 AREA C TRAFFIC CONTROL PLAN - DETAILED PLAN AT PALISADES AVE. AND 9TH & 10TH STREET INTERSECTIONS
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- C-TC-013 AREA C TRAFFIC CONTROL PLAN - LOS OSOS VALLEY ROAD TYPICAL MID-BLOCK CONSTRUCTION
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- C-TC-015 AREA C TRAFFIC CONTROL PLAN - TYPICAL MINOR STREET MID-BLOCK CONSTRUCTION
- C-TC-016 AREA C TRAFFIC CONTROL PLAN - TYPICAL MINOR STREET MID-BLOCK ROADWAY CENTER CLOSURE

CIVIL

GENERAL CIVIL

- C-GC-060 GENERAL CIVIL STANDARD CIVIL DETAILS - 1
- C-GC-061 GENERAL CIVIL STANDARD CIVIL DETAILS - 2
- C-GC-062 GENERAL CIVIL STANDARD CIVIL DETAILS - 3
- C-GC-063 GENERAL CIVIL STANDARD CIVIL DETAILS - 4
- C-GC-064 GENERAL CIVIL STANDARD CIVIL DETAILS - 5
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- C-C-301 CIVIL AREA C KEY PLAN
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MECHANICAL

- C-M-001 MECHANICAL STANDARD DETAILS - 1
- C-M-002 MECHANICAL STANDARD DETAILS - 2
- C-M-003 (NOT USED)
- C-M-004 MECHANICAL SUBMERSIBLE PUMP STATIONS DUPLEX LAYOUT - PLAN & SECTION
- C-M-005 (NOT USED)
- C-M-006 FM/CAV ODOR CONTROL SYSTEM VAULT PLANS, SECTION AND DETAILS

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- C-PP-102 PLAN AND PROFILE: LOS OSOS VALLEY RD. STA. 60+23.36 TO 69+50
- C-PP-103 PLAN AND PROFILE: LOS OSOS VALLEY RD. STA. 69+50 TO 79+50
- C-PP-104 PLAN AND PROFILE: LOS OSOS VALLEY RD. STA. 79+50 TO 90+50
- C-PP-105 PLAN AND PROFILE: LOS OSOS VALLEY RD. STA. 90+50 TO 101+50
- C-PP-106 PLAN AND PROFILE: LOS OSOS VALLEY RD. STA. 101+50 TO 112+50
- C-PP-107 PLAN AND PROFILE: RAVENNA AVENUE STA. 14+13.84 TO 4+25
- C-PP-108 PLAN AND PROFILE: RAVENNA AVENUE STA. 4+25 TO 0+98.87
- C-PP-109 PLAN AND PROFILE: HIGHLAND DRIVE STA. 32+83 TO 27+50
- C-PP-110 PLAN AND PROFILE: WOODLAND DRIVE STA. 27+50 TO 16+45
- C-PP-111 PLAN AND PROFILE: WOODLAND DRIVE STA. 32+20.46 TO 24+25
- C-PP-112 PLAN AND PROFILE: WOODLAND DRIVE STA. 32+20.46 TO 40+82
- C-PP-113 PLAN AND PROFILE: MANZANITA DRIVE STA. 32+33.15 TO 29+09
- C-PP-114 PLAN AND PROFILE: MAR VISTA DRIVE STA. 32+65.40 TO 27+50
- C-PP-115 PLAN AND PROFILE: MANZANITA DRIVE STA. 32+33.15 TO 40+57
- C-PP-116 PLAN AND PROFILE: LILAC DRIVE STA. 32+50.15 TO 40+73
- C-PP-117 PLAN AND PROFILE: MAR VISTA DRIVE STA. 27+50 TO 16+40
- C-PP-118 PLAN AND PROFILE: MAR VISTA DRIVE STA. 32+65.40 TO 40+27
- C-PP-119 PLAN AND PROFILE: HIGHLAND DRIVE STA. 32+83 TO 41+25
- C-PP-120 PLAN AND PROFILE: LOS OSOS VALLEY RD. STA. 60+23.36 TO 50+36.91
- C-PP-121 PLAN AND PROFILE: BRODERSON AVENUE STA. 15+07.87 TO 6+49.19
- C-PP-122 PLAN AND PROFILE: LILAC DRIVE STA. 22+70.12 TO 30+94
- C-PP-123 PLAN AND PROFILE: LOS OSOS VALLEY RD. STA. 50+36.91 TO 40+21
- C-PP-124 PLAN AND PROFILE: WOODLAND DRIVE STA. 22+37.19 TO 15+98
- C-PP-125 PLAN AND PROFILE: MANZANITA DRIVE STA. 22+53.80 TO 16+01
- C-PP-126 PLAN AND PROFILE: MANZANITA DRIVE STA. 22+53.80 TO 28+65
- C-PP-127 PLAN AND PROFILE: LILAC DRIVE STA. 22+70.12 TO 15+96
- C-PP-128 PLAN AND PROFILE: PALISADES AVENUE STA. 14+17.21 TO 2+25
- C-PP-129 PLAN AND PROFILE: HIGHLAND DRIVE STA. 43+73.01 TO 51+00
- C-PP-130 PLAN AND PROFILE: MAR VISTA DRIVE STA. 24+25 TO 0+96
- C-PP-131 PLAN AND PROFILE: HIGHLAND DRIVE STA. 42+96.31 TO 40+82
- C-PP-132 PLAN AND PROFILE: BUSH DRIVE STA. 43+73.01 TO 41+83
- C-PP-133 PLAN AND PROFILE: FERRELL AVENUE STA. 1+11.90 TO 5+97
- C-PP-134 PLAN AND PROFILE: 9TH STREET STA. 3+61.78 TO 7+38
- C-PP-135 PLAN AND PROFILE: BAYVIEW HEIGHTS DR. STA. 0+47.44 TO 6+49
- C-PP-136 PLAN AND PROFILE: BAY OAKS DRIVE STA. 12+23.69 TO 5+77.47
- C-PP-137 PLAN AND PROFILE: BAY OAKS DRIVE STA. 1+00 TO 3+25
- C-PP-138 PLAN AND PROFILE: BAY OAKS DRIVE STA. 3+25 TO 15+02.85
- C-PP-139 PLAN AND PROFILE: CREST AVENUE STA. 7+32.03 TO 1+05.96
- C-PP-140 PLAN AND PROFILE: GREEN OAKS DRIVE STA. 11+97.63 TO 11+66
- C-PP-141 PLAN AND PROFILE: BAYVIEW HEIGHTS DR. STA. 5+77.47 TO 1+01
- C-PP-142 PLAN AND PROFILE: HIGHLAND DRIVE STA. 53+38.66 TO 51+00
- C-PP-143 PLAN AND PROFILE: GREEN OAKS DRIVE STA. 0+92 TO 10+54
- C-PP-144 PLAN AND PROFILE: WINNELL AVENUE STA. 4+30.66 TO 1+64
- C-PP-145 PLAN AND PROFILE: ANNE AVENUE STA. 5+31.36 TO 2+09
- C-PP-146 PLAN AND PROFILE: CLARANITA AVENUE STA. 6+26.82 TO 1+91
- C-PP-147 PLAN AND PROFILE: 10TH STREET STA. 0+90.83 TO 7+23
- C-PP-148 PLAN AND PROFILE: SUNSET DRIVE STA. 6+89.92 TO 1+89
- C-PP-149 PLAN AND PROFILE: SOUTH BAY BLVD. STA. 7+39.37 TO 0+93.84
- C-PP-150 PLAN AND PROFILE: BAY OAKS DRIVE STA. 22+11.48 TO 15+69
- C-PP-151 PLAN AND PROFILE: LOS OSOS VALLEY RD. STA. 132+52.25 TO 123+50
- C-PP-152 PLAN AND PROFILE: LOS OSOS VALLEY RD. STA. 123+50 TO 114+10.75
- C-PP-153 PLAN AND PROFILE: PECHO ROAD STA. 6+73.52 TO 1+27.03
- C-PP-154 PLAN AND PROFILE: LOS OSOS VALLEY RD. STA. 23+99.73 TO 29+30.17
- C-PP-155 PLAN AND PROFILE: CLELLAND AVENUE STA. 15+00.75 TO 3+79.42
- C-PP-156 PLAN AND PROFILE: HIGHLAND DRIVE STA. 1+40 TO 11+50
- C-PP-157 PLAN AND PROFILE: HIGHLAND DRIVE STA. 11+50 TO 15+40
- C-PP-158 PLAN AND PROFILE: PECHO VALLEY RD. STA. 23+99.73 TO 12+50
- C-PP-159 PLAN AND PROFILE: PECHO VALLEY RD. STA. 12+50 TO 5+75
- C-PP-160 PLAN AND PROFILE: LOS OSOS VALLEY RD. STA. 29+30.17 TO 39+87
- C-PP-161 PLAN AND PROFILE: WOODLAND DRIVE STA. 1+12 TO 11+50
- C-PP-162 PLAN AND PROFILE: WOODLAND DRIVE STA. 11+50 TO 14+98
- C-PP-163 PLAN AND PROFILE: MANZANITA DRIVE STA. 11+50 TO 15+12
- C-PP-164 PLAN AND PROFILE: MANZANITA DRIVE STA. 1+12 TO 11+50
- C-PP-165 PLAN AND PROFILE: LILAC DRIVE STA. 1+12 TO 11+50
- C-PP-166 PLAN AND PROFILE: LILAC DRIVE STA. 11+50 TO 15+08
- C-PP-167 PLAN AND PROFILE: MAR VISTA DRIVE STA. 11+25 TO 15+54
- C-PP-168 PLAN AND PROFILE: MAR VISTA DRIVE STA. 1+12 TO 11+25

COLLECTION SYSTEM - RECYCLED WATER

- C-PP-360 PLAN AND PROFILE-REW LOS OSOS VALLEY ROAD STA 9+63.10 TO 20+00
- C-PP-361 PLAN AND PROFILE-REW LOS OSOS VALLEY ROAD STA 20+00 TO 30+00
- C-PP-362 PLAN AND PROFILE-REW LOS OSOS VALLEY ROAD STA 30+00 TO 40+00
- C-PP-363 PLAN AND PROFILE-REW LOS OSOS VALLEY ROAD STA 40+00 TO 50+00
- C-PP-364 PLAN AND PROFILE-REW LOS OSOS VALLEY ROAD STA 50+00 TO 60+00
- C-PP-365 PLAN AND PROFILE-REW LOS OSOS VALLEY ROAD STA 60+00 TO 70+00
- C-PP-366 PLAN AND PROFILE-REW LOS OSOS VALLEY ROAD STA 70+00 TO 80+00
- C-PP-367 PLAN AND PROFILE-REW LOS OSOS VALLEY ROAD STA 80+00 TO 90+00
- C-PP-368 PLAN AND PROFILE-REW LOS OSOS VALLEY ROAD STA 90+00 TO 100+00
- C-PP-369 PLAN AND PROFILE-REW LOS OSOS VALLEY ROAD STA 100+00 TO 110+00
- C-PP-370 PLAN AND PROFILE-REW LOS OSOS VALLEY ROAD STA 110+00 TO 120+00
- C-PP-371 PLAN AND PROFILE-REW LOS OSOS VALLEY ROAD STA 120+00 TO 130+00
- C-PP-372 PLAN AND PROFILE-REW LOS OSOS VALLEY ROAD STA 130+00 TO 140+00
- C-PP-373 PLAN AND PROFILE-REW LOS OSOS VALLEY ROAD STA 140+00 TO 150+00
- C-PP-374 PLAN AND PROFILE-REW LOS OSOS VALLEY ROAD STA 150+00 TO 160+00
- C-PP-375 PLAN AND PROFILE-REW LOS OSOS VALLEY ROAD STA 160+00 TO 170+00
- C-PP-376 PLAN AND PROFILE-REW BRODERSON AVENUE STA 200+00 TO 210+00
- C-PP-377 PLAN AND PROFILE-REW BRODERSON AVENUE STA 210+00 TO 220+00
- C-PP-378 PLAN AND PROFILE-REW BRODERSON AVENUE STA 220+00 TO 228+06
- C-PP-379 PLAN AND PROFILE-REW SOUTH BAY BLVD STA 250+06.40 TO 257+27.73
- C-PP-380 PLAN AND PROFILE-REW 10TH STREET STA 500+00 TO 510+00
- C-PP-381 PLAN AND PROFILE-REW BAYVIEW HEIGHTS DRIVE STA 400+00 TO 405+99.90
- C-PP-382 PLAN AND PROFILE-REW PECHO VALLEY ROAD STA 170+00 TO 174+05.89
- C-PP-383 PLAN AND PROFILE-REW CLARK VALLEY ROAD 1 STA 300+00 TO 310+00
- C-PP-384 PLAN AND PROFILE-REW CLARK VALLEY ROAD 2 STA 310+00 TO 320+00
- C-PP-385 PLAN AND PROFILE-REW BLUE HERON VIEW LANE STA 320+00 TO 330+74.87

COLLECTION SYSTEM - FORCE MAIN

- C-PP-402 PLAN AND PROFILE-FM LOS OSOS VALLEY ROAD STA 316+00 TO 327+00
- C-PP-403 PLAN AND PROFILE-FM LOS OSOS VALLEY ROAD STA 327+00 TO 337+00
- C-PP-404 PLAN AND PROFILE-FM LOS OSOS VALLEY ROAD STA 337+00 TO 347+00
- C-PP-405 PLAN AND PROFILE-FM LOS OSOS VALLEY ROAD STA 347+00 TO 357+00
- C-PP-406 PLAN AND PROFILE-FM LOS OSOS VALLEY ROAD STA 357+00 TO 367+00
- C-PP-407 PLAN AND PROFILE-FM LOS OSOS VALLEY ROAD STA 367+00 TO 377+00
- C-PP-408 PLAN AND PROFILE-FM LOS OSOS VALLEY ROAD STA 377+00 TO 387+00
- C-PP-409 PLAN AND PROFILE-FM LOS OSOS VALLEY ROAD STA 387+00 TO 397+00
- C-PP-410 PLAN AND PROFILE-FM LOS OSOS VALLEY ROAD STA 397+00 TO 407+00
- C-PP-411 PLAN AND PROFILE-FM LOS OSOS VALLEY ROAD STA 407+00 TO 417+00
- C-PP-412 PLAN AND PROFILE-FM LOS OSOS VALLEY ROAD STA 417+00 TO 428+00
- C-PP-413 PLAN AND PROFILE-FM LOS OSOS VALLEY ROAD STA 428+00 TO 439+51.17

EFFLUENT DISPOSAL

- C-ED-330 EFFLUENT DISPOSAL SYSTEM BRODERSON EDS PLANS
- C-ED-331 EFFLUENT DISPOSAL SYSTEM BRODERSON EDS SITE GRADING PLANS
- C-ED-332 EFFLUENT DISPOSAL SYSTEM BRODERSON EDS SECTIONS
- C-ED-333 EFFLUENT DISPOSAL SYSTEM BRODERSON EDS GRAVEL ROAD PROFILE
- C-ED-334 EFFLUENT DISPOSAL SYSTEM EDS SCHEMATIC DIAGRAM
- C-ED-337 EFFLUENT DISPOSAL SYSTEM EDS SECTIONS AND DETAILS 1
- C-ED-337A EFFLUENT DISPOSAL SYSTEM EDS SECTIONS AND DETAILS 1A
- C-ED-339 EFFLUENT DISPOSAL SYSTEM SECTIONS AND DETAILS 3

STRUCTURAL

- C-S-001 STRUCTURAL NOTES 1
- C-S-002 STRUCTURAL NOTES 2
- C-S-003 STANDARD STRUCTURAL DETAILS 1
- C-S-004 STANDARD STRUCTURAL DETAILS 2
- C-S-011 STRUCTURAL SUBMERSIBLE PUMP STATIONS & VALVE VAULTS - FOUNDATION AND TOP PLANS
- C-S-012 STRUCTURAL SUBMERSIBLE PUMP STATIONS & VALVE VAULTS - SECTIONS AND DETAILS
- C-S-013 STRUCTURAL ODOR CONTROL VAULTS PLANS AND SECTIONS
- C-S-014 BRIDGE PIPE SUPPORT STRUCTURAL SECTIONS AND DETAILS

LANDSCAPING

- C-L-001 IRRIGATION DETAILS
- C-L-002 IRRIGATION DETAILS
- C-L-003 PLANTING DETAILS
- C-L-101 BRODERSON EFFLUENT DISPOSAL SITE IRRIGATION PLAN
- C-L-102 BRODERSON EFFLUENT DISPOSAL SITE IRRIGATION PLAN
- C-L-103 BRODERSON EFFLUENT DISPOSAL SITE PLANTING PLAN

ELECTRICAL

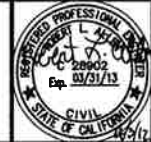
- C-E-001 ELECTRICAL FIBER OPTIC & POWER CONDUIT PLAN AREA C - SHEET 1 OF 2
- C-E-001A ELECTRICAL FIBER OPTIC & POWER CONDUIT PLAN AREA C - SHEET 2 OF 2
- C-E-002 ELECTRICAL DETAILS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: BJC
 DRAWN BY: WKT
 CHECKED BY: RLA
 DATE: APRIL, 2012



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LOS OSOS WASTEWATER COLLECTION SYSTEM

AREA C LIST OF DRAWINGS

PROJECT NO. 42502-83120

FILE NAME: C-G-003

SHEET NO.

C-G-003

SURVEY DATA

HORIZONTAL POSITIONS AND ELLIPSOID HEIGHTS ARE BASED ON NORTH AMERICAN DATUM OF 1983, 1991.35 EPOCH ADJUSTMENT OF THE HIGH PRECISION GEODETIC NETWORK AS REFERENCED BY #1315 IN THIS SURVEY, NGS DESIGNATION "A 1315" AND #14, NGS DESIGNATION "942110 TIDAL 14 RESET." THE NAD83 DATUM SUPERSEDED THE NAD27 DATUM

ORTHOMETRIC HEIGHTS (ELEVATIONS) ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAND88) PER #1315 AND #14 AS REFERENCED ABOVE. IN ADDITION AS FIRST ORDER CLASS 1 BENCHMARK NGS DESIGNATION "B 1314" (PT #1314) WAS USED FOR QUALITY CONTROL. THE ORTHOMETRIC HEIGHTS WITHIN THE PROJECT SITE WAS USED FOR QUALITY CONTROL. THE ORTHOMETRIC HEIGHTS WITHIN THE PROJECT SITE ARE APPROXIMATELY ONLY, DUE TO THE DISTANCE BETWEEN THE SITE AND THE BENCHMARKS. THE PURPOSE OF THE MODELING WITHIN THE SITE WAS TO DETERMINE A GOOD ORTHOMETRIC MODEL WITHIN THE SITE AREA ITSELF. NO ATTEMPT WAS MADE TO MAKE THIS MODEL TO EXACTLY MATCH NAVD88.

THE SURVEY DATA PROVIDED HEREIN WAS SUPPLIED BY THE COUNTY FOR USE DURING DESIGN AND CONSTRUCTION.

AGENCY CONTACT INFORMATION

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LOS OSOS, CA 93402
(805) 528-2287

S&T MUTUAL WATER CO.
DAVE TOLLEY
P.O. BOX 6391
LOS OSOS, CA 93412
(805) 534-1139

STORM DRAINS

COUNTY OF SAN LUIS OBISPO
DEPARTMENT OF PUBLIC WORKS
COUNTY GOVERNMENT CENTER
ROOM 207
SAN LUIS OBISPO, CA 93408

GAS

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BRUCE SPENCER
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GOLETA, CA 93116
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ELECTRIC

PG&E
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SAN LUIS OBISPO, CA 93401
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CAL FIRE/SAN LUIS OBISPO COUNTY
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CHIEF ROBERT LEWIN
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DEAN BOYERS
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RICHARDSON, TX 75082
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CHARTER COMMUNICATIONS
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UMAN / FIBER OPTIC

SAN LUIS COASTAL UNIFIED
SCHOOL DISTRICT

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REV. NO.	DATE	DRWN	CHKD	REMARKS

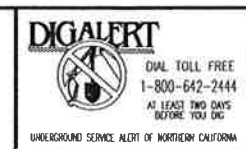
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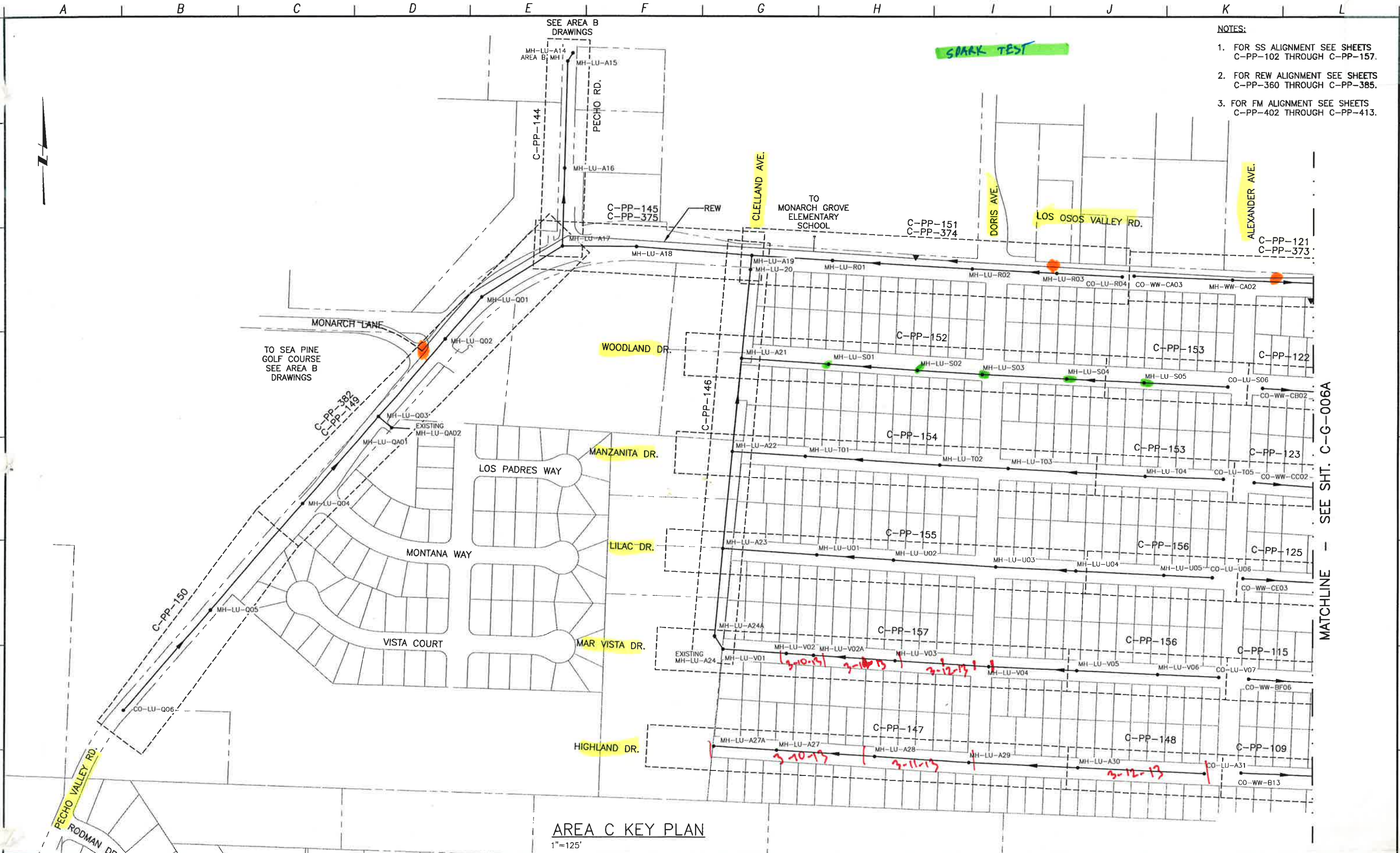
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LOS OSOS WASTEWATER COLLECTION SYSTEM
**GENERAL SURVEY DATA,
AGENCY CONTACT INFORMATION**

PROJECT NO. 42502-83120
FILE NAME: C-G-004
SHEET NO.
C-G-004

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- NOTES:**
1. FOR SS ALIGNMENT SEE SHEETS C-PP-102 THROUGH C-PP-157.
 2. FOR REW ALIGNMENT SEE SHEETS C-PP-360 THROUGH C-PP-385.
 3. FOR FM ALIGNMENT SEE SHEETS C-PP-402 THROUGH C-PP-413.

AREA C KEY PLAN
1"=125'

MATCHLINE - SEE SHT. C-G-006A

REV. NO.	DATE	DRWN	CHKD	REMARKS

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 DRAWN BY: WKT
 CHECKED BY: RLA
 DATE: APRIL, 2012

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 Sacramento, CA 95833
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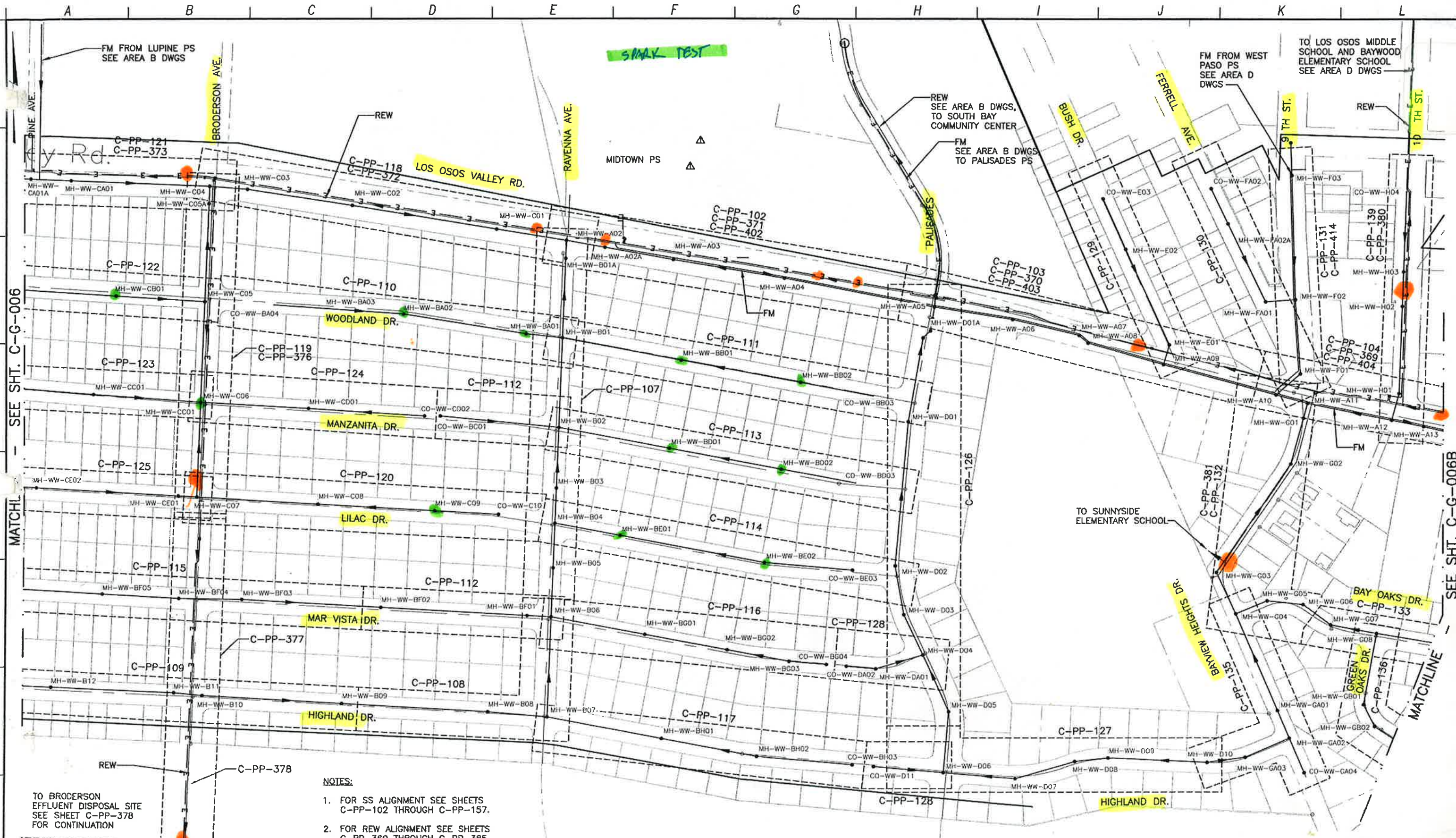
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LOS OSOS WASTEWATER COLLECTION SYSTEM
GENERAL AREA C KEY PLAN 1
 PROJECT NO. 42502-83120
 FILE NAME: C-G-006
 SHEET NO.
C-G-006

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- NOTES:**
1. FOR SS ALIGNMENT SEE SHEETS C-PP-102 THROUGH C-PP-157.
 2. FOR REW ALIGNMENT SEE SHEETS C-PP-360 THROUGH C-PP-385.
 3. FOR FM ALIGNMENT SEE SHEETS C-PP-402 THROUGH C-PP-413.

AREA C KEY PLAN
1"=125'

REV. NO.	DATE	DRWN	CHKD	REMARKS
7/2012	LLB	MDM	CONFORMED	
6/06/12	LLB	RLA	ADDENDUM	

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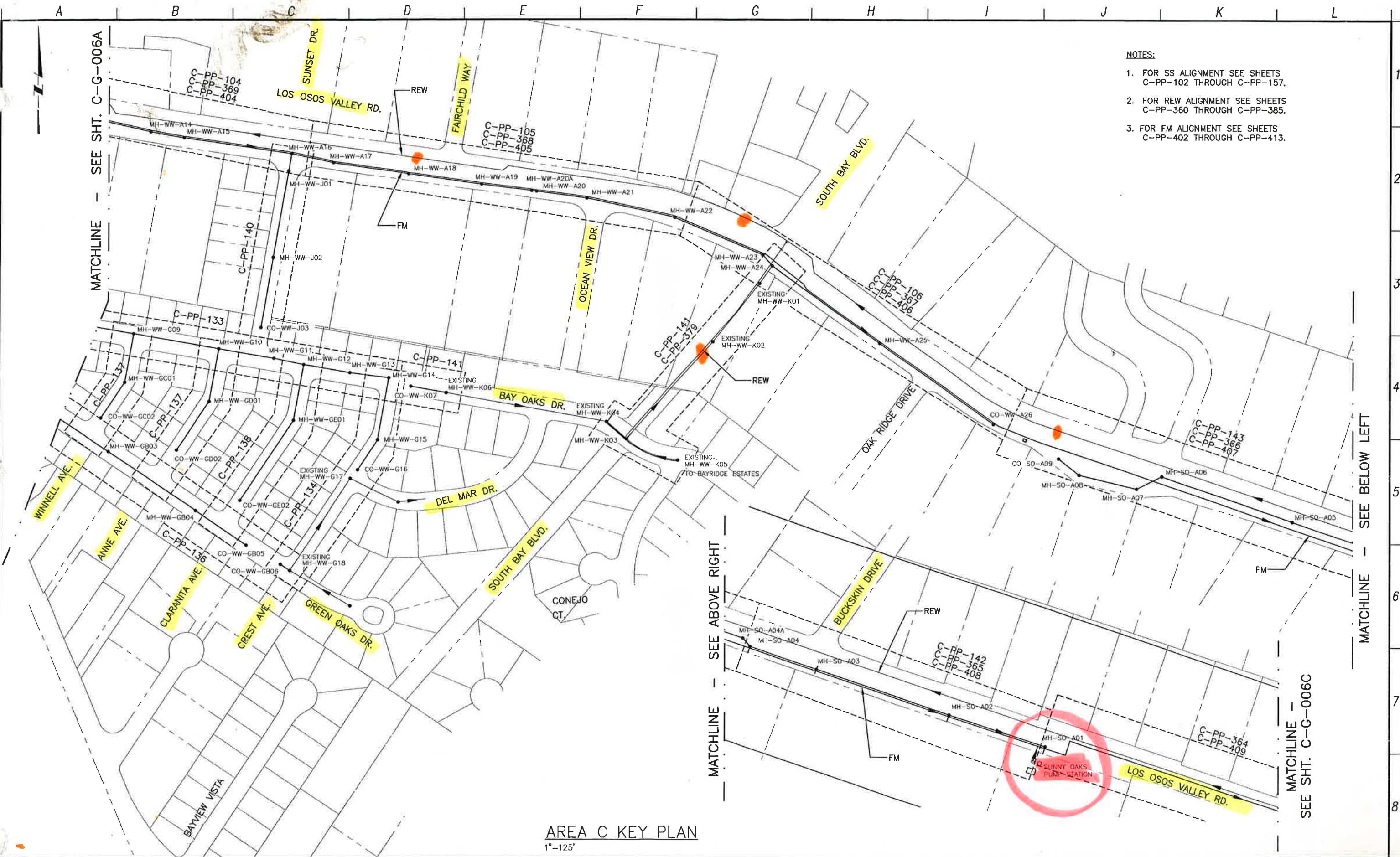


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GENERAL AREA C KEY PLAN 2

PROJECT NO. 42502-83120
 FILE NAME: C-G-006A
 SHEET NO. **C-G-006A**

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- NOTES:**
1. FOR SS ALIGNMENT SEE SHEETS C-PP-102 THROUGH C-PP-157.
 2. FOR REW ALIGNMENT SEE SHEETS C-PP-360 THROUGH C-PP-365.
 3. FOR FM ALIGNMENT SEE SHEETS C-PP-402 THROUGH C-PP-413.

AREA C KEY PLAN
1"=125'

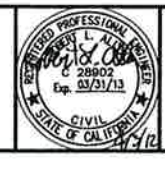
REV. NO.	DATE	DRWN	CHKD	REMARKS

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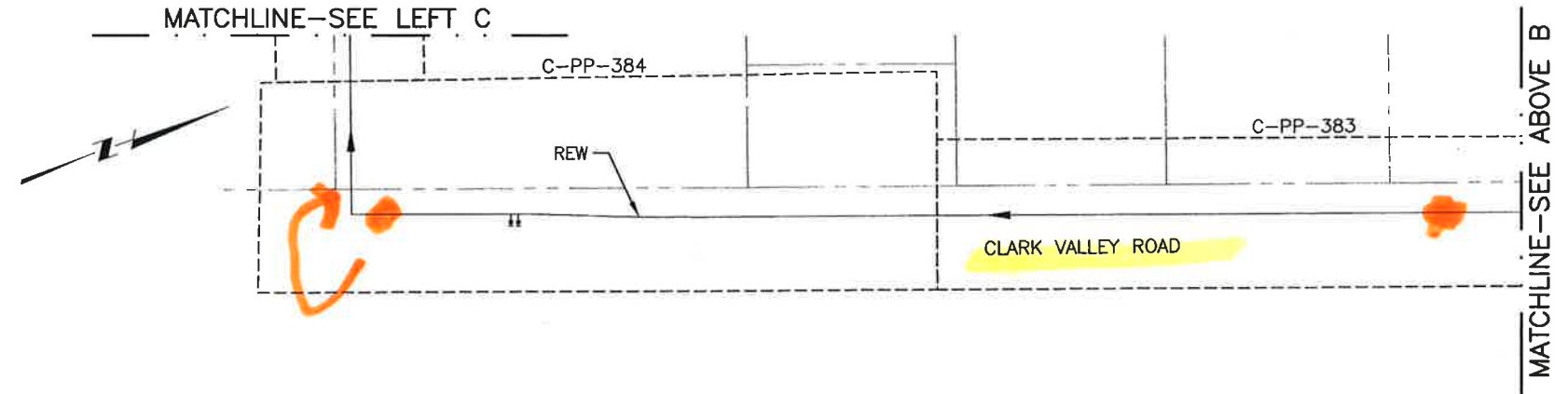
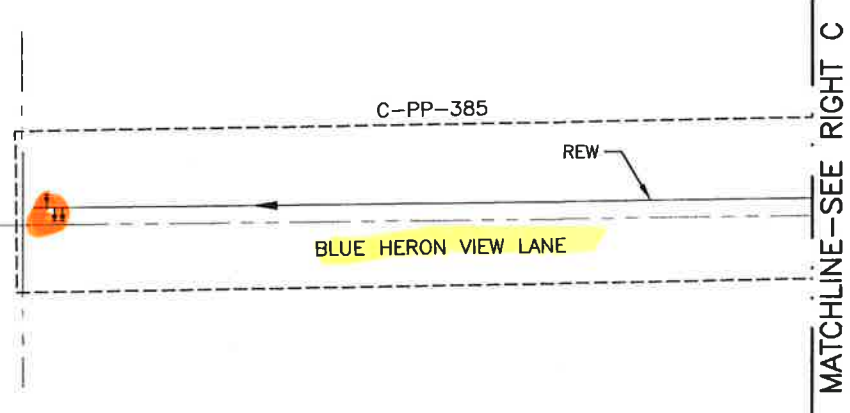
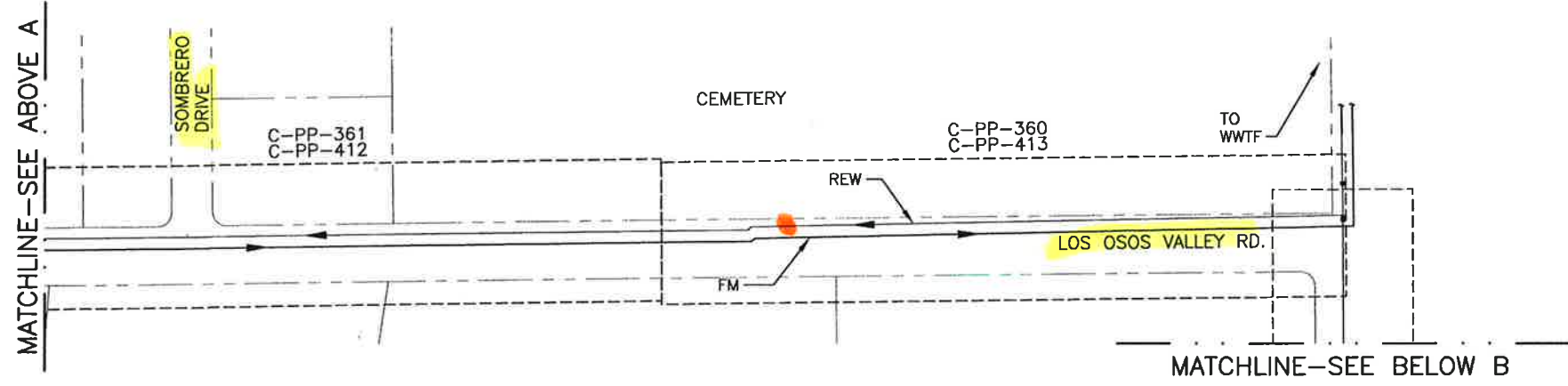
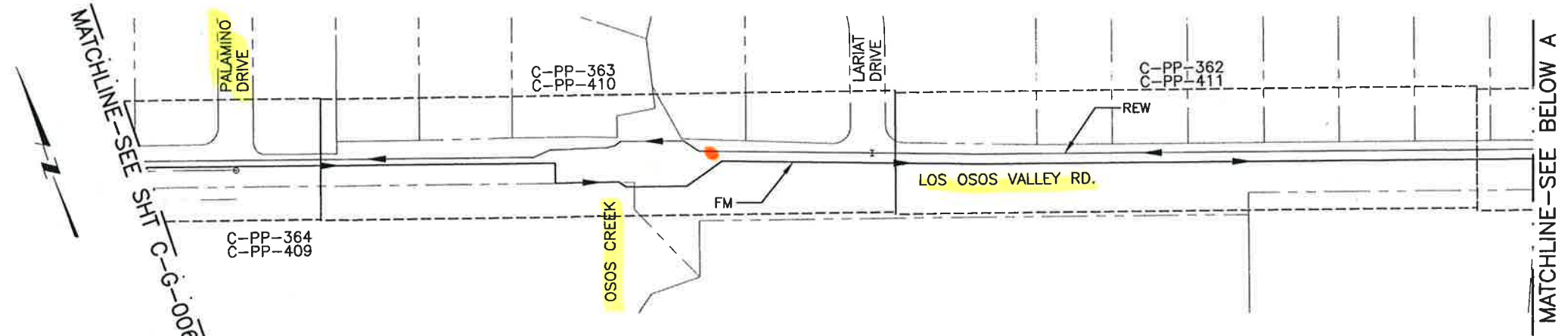
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LOS OSOS WASTEWATER COLLECTION SYSTEM
GENERAL AREA C KEY PLAN 3
 PROJECT NO. 42502-83120
 FILE NAME: C-G-006B
 SHEET NO. C-G-006B

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A B C D E F G H I J K L

- NOTES:**
1. FOR SS ALIGNMENT SEE SHEETS C-PP-102 THROUGH C-PP-157.
 2. FOR REW ALIGNMENT SEE SHEETS C-PP-360 THROUGH C-PP-385.
 3. FOR FM ALIGNMENT SEE SHEETS C-PP-402 THROUGH C-PP-413.

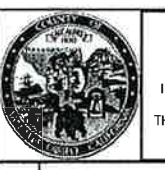


AREA C KEY PLAN
1"=125'

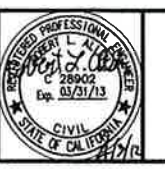
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DESIGNED BY: KS
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 CHECKED BY: RLA
 DATE: APRIL, 2012

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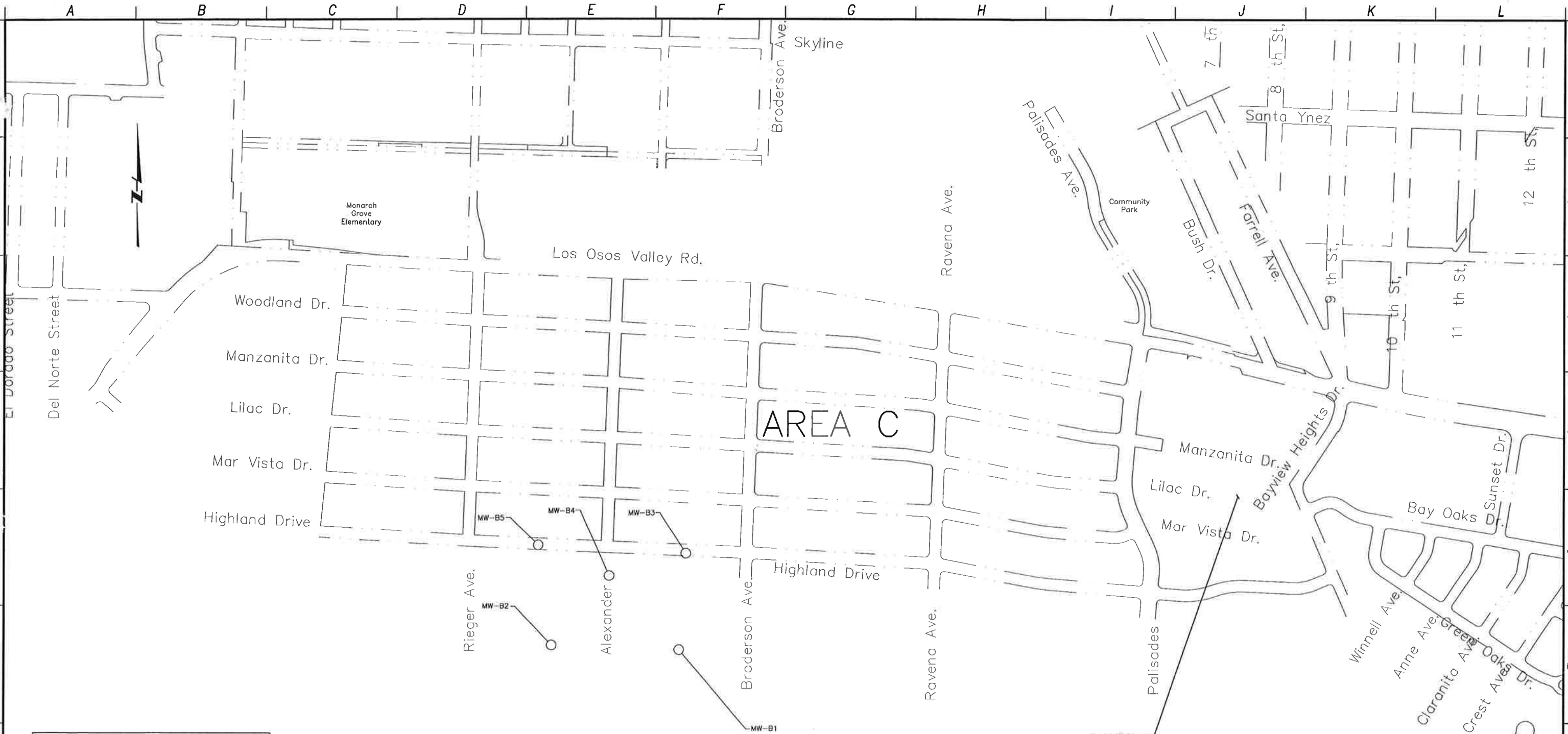


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GENERAL AREA C KEY PLAN 4

PROJECT NO. 42502-83120
 FILE NAME: C-G-006C
 SHEET NO.
C-G-006C

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MONITORING WELL LOCATIONS FOR EDS		
MONITORING WELL NAMES	NORTHING	EASTING
MW-B1	2310180.53	5713135.97
MW-B2	2310204.46	5712486.41
MW-B3	2310674.50	5713171.68
MW-B4	2310561.20	5712780.87
MW-B5	2310717.59	5712417.75

BRODERSON EDS
 800,000 GPD
 270' x 1300'
 (ED-C-330)

- NOTES:**
- INSTALL MONITORING WELLS PER DETAILS ED-96 ON DRAWING ED-C-339 AND SPECIFICATIONS.

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PROJECT NO. 42502-83120
 FILE NAME: C-G-007
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POTHOLE DATA

AREA	POTHOLE ID	DRAWING	EXISTING GRADE (FEET)	DEPTH TO TOP	EXISTING AC THICKNESS	LOCATION	DESCRIPTION	NORTHING	EASTING
C	4	C-PP-107	111.63	38"	7"	RAVENNA/WOODLAND	8" W	2,311,675.83	5,714,481.59
C	5	C-PP-108	172.03	46"	6"	RAVENNA/WOODLAND	8" W	2,310,626.48	5,714,435.24
C	6	C-PP-135	183.88	38"	5"	BAYMEW HEIGHTS/HIGHLAND	2" G	2,310,552.41	5,716,454.66
C	14	C-PP-102	96.8+/-	T=64" : B=82"	4"	RAVENNA/LOS OSOS VALLEY ROAD	12 - 4" FO COND	-	-
C	15	C-PP-156	148.17	32"	6"	LILAC	2" G	2,311,281.46	5,712,564.49
C	21	C-PP-149	91.21	T=50" : B=60"	9"	PECHO WAY	2 - 4" FO COND	2,311,737.60	5,710,368.11
C	23	C-PP-121	111.42	T=50" : B=81"	8"	LOS OSOS VALLEY ROAD/PINE	MULTIPLE 4" COND (9+)	2,312,119.69	5,713,019.86
C	25	C-PP-104	128.03	T=89" : B=110"	7"	LOS OSOS VALLEY ROAD/10TH STREET	10 - 2" COND	2,311,435.42	5,716,781.97
C	26	C-PP-106	163.46	T=58" : B=78"	4"	LOS OSOS VALLEY ROAD/OAK RIDGE	12 - 4" COND	2,310,899.76	5,718,981.55
C	27	C-PP-143	170.8	T=52" : B=72"	4"	LOS OSOS VALLEY ROAD/WILLOW	MULTIPLE 2" COND	2,310,551.81	5,719,504.75
C	28	C-PP-143	170.93	T=52" : B=69"	4"	LOS OSOS VALLEY ROAD/WILLOW	12 - 4" FO COND	2,310,547.25	5,719,502.45
C	29	C-PP-143	161.95	T=56" : B=77"	5"	LOS OSOS VALLEY ROAD/BUCKSKIN	MULTIPLE 2" COND	2,309,939.37	5,721,302.82
C	30	C-PP-116	155.84	-	4"	MAR VISTA HIGH WATER TABLE, W - NOT FOUND		2,310,850.40	5,714,702.11

POTHOLE DATA

AREA	POTHOLE ID	DRAWING	EXISTING GRADE (FEET)	TOP ELEVATION (FEET)	EXISTING AC THICKNESS	LOCATION	DESCRIPTION	NORTHING	EASTING
C	51	C-PP-360	XXX.XX	110.10	X"	LOS OSOS VALLEY ROAD	3" G	2,308,387.68	5,726,069.92
C	52	C-PP-360	XXX.XX	108.57	X"	LOS OSOS VALLEY ROAD	4" FO COND	2,308,389.81	5,726,065.45
C	53	C-PP-360	XXX.XX	90.90	X"	LOS OSOS VALLEY ROAD	6" G	2,309,429.52	5,722,927.95
C	54	C-PP-360	XXX.XX	91.40	X"	LOS OSOS VALLEY ROAD	6" G	2,309,507.68	5,722,674.76
C	55	C-PP-364	XXX.XX	132.82	X"	LOS OSOS VALLEY ROAD	JOINT COMM TRENCH	2,309,743.50	5,721,899.90
C	56	C-PP-364	XXX.XX	155.06	X"	LOS OSOS VALLEY ROAD	6" G	2,309,906.99	5,721,478.13
C	57	C-PP-364	XXX.XX	157.42	X"	LOS OSOS VALLEY ROAD	W	2,309,921.23	5,721,423.36
C	58	C-PP-364	XXX.XX	153.65	X"	LOS OSOS VALLEY ROAD	MULTIPLE 4" COND	2,309,899.36	5,721,423.12
C	59	C-PP-364	XXX.XX	156.04	X"	LOS OSOS VALLEY ROAD	JOINT COMM TRENCH	2,309,870.22	5,721,413.81
C	60	C-PP-365	XXX.XX	157.42	X"	LOS OSOS VALLEY ROAD	2" G	2,309,966.92	5,721,277.91
C	61	C-PP-365	XXX.XX	157.96	X"	LOS OSOS VALLEY ROAD	2" G	2,310,020.04	5,721,115.40
C	62	C-PP-365	XXX.XX	161.23	X"	LOS OSOS VALLEY ROAD/BUCKSKIN DR	W	2,310,163.68	5,720,674.71
C	63	C-PP-365	XXX.XX	162.44	X"	LOS OSOS VALLEY ROAD/BUCKSKIN DR	2" G	2,310,173.75	5,720,662.65
C	64	C-PP-143	XXX.XX	164.98	X"	LOS OSOS VALLEY ROAD	1/2" G	2,308,387.68	5,726,069.92
C	65	C-PP-143	XXX.XX	165.78	X"	LOS OSOS VALLEY ROAD	1/2" G	2,308,389.81	5,726,065.45
C	66	C-PP-143	XXX.XX	167.15	X"	LOS OSOS VALLEY ROAD	W	2,309,429.52	5,722,927.95
C	67	C-PP-143	XXX.XX	156.38	X"	LOS OSOS VALLEY ROAD	XXX	XXXXXXX	XXXXX
C	68	C-PP-106	XXX.XX	168.54	X"	LOS OSOS VALLEY ROAD	1" G	2,310,574.97	5,719,386.75
C	69	C-PP-106	XXX.XX	165.40	X"	LOS OSOS VALLEY ROAD/OAK RIDGE DR	2" G	2,310,682.97	5,719,238.26
C	70	C-PP-106	XXX.XX	164.12	X"	LOS OSOS VALLEY ROAD/OAK RIDGE DR	8" W	2,310,696.75	5,719,219.47
C	71	C-PP-106	XXX.XX	165.51	X"	LOS OSOS VALLEY ROAD/OAK RDIGE DR	COND	2,310,699.34	5,719,215.69
C	72	C-PP-106	XXX.XX	162.24	X"	LOS OSOS VALLEY ROAD	4" COND	2,310,756.40	5,719,144.92
C	73	C-PP-106	XXX.XX	163.24	X"	LOS OSOS VALLEY ROAD	3/4" G	2,310,759.78	5,719,140.47
C	74	C-PP-106	161.47	157.67	X"	LOS OSOS VALLEY ROAD/S BAY BLVD	1/2" G	2,310,990.83	8,718,818.37
C	75	C-PP-106	XXX.XX	157.56	X"	LOS OSOS VALLEY ROAD/S BAY BLVD	6" G	2,311,054.48	5,718,829.81
C	76	C-PP-106	XXX.XX	155.16	X"	LOS OSOS VALLEY ROAD/S BAY BLVD	14" W	2,311,057.75	8,718,831.79
C	77	C-PP-106	XXX.XX	157.23	X"	LOS OSOS VALLEY ROAD/S BAY BLVD	4" COND	2,311,081.72	5,718,793.76
C	78	C-PP-106	XXX.XX	157.46	X"	LOS OSOS VALLEY ROAD/S BAY BLVD	6" COND	2,311,022.41	5,718,761.14
C	79	C-PP-106	XXX.XX	158.17	X"	LOS OSOS VALLEY ROAD/S BAY BLVD	4" FO COND	2,310,999.57	5,718,759.26

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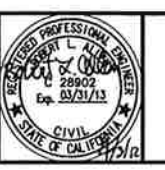
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GENERAL POTHOLE DATA - 1

PROJECT NO. 42502-83120
 FILE NAME: C-G-008
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C-G-008

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POTHOLE DATA

AREA	POTHOLE ID	DRAWING	EXISTING GRADE (FEET)	TOP ELEVATION (FEET)	EXISTING AC THICKNESS	LOCATION	DESCRIPTION	NORTHING	EASTING
C	80	C-PP-106	XXX.XX	156.63	X"	LOS OSOS VALLEY ROAD/S BAY BLVD	6" W	2,311,095.18	5,718,757.63
C	81	C-PP-105	XXX.XX	153.24	X"	LOS OSOS VALLEY ROAD/OCEANVIEW DR	4" COND	2,311,174.79	5,718,381.49
C	82	C-PP-105	XXX.XX	152.70	X"	LOS OSOS VALLEY ROAD/OCEANVIEW DR	4" COND	2,311,222.66	5,718,390.81
C	83	C-PP-105	XXX.XX	147.51 149.10	X"	LOS OSOS VALLEY ROAD/OCEANVIEW DR	1" G 4" COND	2,311,266.20	5,718,120.96
C	84	C-PP-105	XXX.XX	149.79	X"	LOS OSOS VALLEY ROAD/OCEANVIEW DR	4" COND	2,311,211.72	5,718,113.82
C	85	C-PP-105	XXX.XX	142.31	X"	LOS OSOS VALLEY ROAD/OCEANVIEW DR	5" COND	2,311,303.37	5,717,886.65
C	86	C-PP-105	XXX.XX	140.35	X"	LOS OSOS VALLEY ROAD/OCEANVIEW DR	8" W	2,311,309.09	5,717,843.11
C	87	C-PP-105	XXX.XX	139.74	X"	LOS OSOS VALLEY ROAD/OCEANVIEW DR	8" W	2,311,263.59	5,717,729.99
C	88	C-PP-104	XXX.XX	132.49	X"	LOS OSOS VALLEY ROAD/SUNSET DR	6" G	2,311,360.38	5,717,480.32
C	89	C-PP-104	XXX.XX	132.18	X"	LOS OSOS VALLEY ROAD/SUNSET DR	6" G	2,311,367.03	5,717,433.12
C	90	C-PP-104	XXX.XX	129.20	X"	LOS OSOS VALLEY ROAD/SUNSET DR	6" W	2,311,379.59	5,717,345.12
C	91	C-PP-104	XXX.XX	124.80 126.20	X"	LOS OSOS VALLEY ROAD/10TH ST	4" COND 1.5" COND	2,311,472.51	5,716,812.01
C	92	C-PP-104	127.70	122.80 124.77	X"	LOS OSOS VALLEY ROAD/10TH ST	12" FO COND 8" W	2,311,476.38	5,716,792.74
C	93	C-PP-104	XXX.XX	122.56	X"	LOS OSOS VALLEY ROAD/10TH ST	4" G	2,311,486.39	5,716,746.83
C	94	C-PP-103	XXX.XX	116.22 117.27	X"	LOS OSOS VALLEY ROAD/FERRELL AVE	4" FO COND 4" G	2,311,530.26	5,716,525.99
C	95	C-PP-103	XXX.XX	114.54 112.84	X"	LOS OSOS VALLEY ROAD/FERRELL AVE	4" G 6" W	2,311,546.15	5,716,543.36
C	96	C-PP-103	XXX.XX	105.48 105.79 105.18	X"	LOS OSOS VALLEY ROAD	4" G XX" FO XX" G	2,311,740.30	5,715,686.38
C	97	C-PP-102	XXX.XX	101.94 102.98 102.87	X"	LOS OSOS VALLEY ROAD/PALISADES AVE	2" G XX" FO XX" FO	2,311,783.50	5,715,509.44
C	98	C-PP-121	XXX.XX	107.54	X"	LOS OSOS VALLEY ROAD/BRODERSON AVE	4" G	2,312,095.77	5,713,527.05
C	99	C-PP-121	XXX.XX	105.86 106.36	X"	LOS OSOS VALLEY ROAD/BRODERSON AVE	FO COND 8 or 10" W	2,312,068.85	5,713,526.23

X = DATA NOT AVAILABLE

POTHOLE DATA

AREA	POTHOLE ID	DRAWING	EXISTING GRADE (FEET)	TOP ELEVATION (FEET)	EXISTING AC THICKNESS	LOCATION	DESCRIPTION	NORTHING	EASTING
C	100	C-PP-121	XXX.XX	108.51	X"	LOS OSOS VALLEY ROAD/PINE AVE	3" G	2,312,123.94	5,713,047.38
C	101	C-PP-121	XXX.XX	106.78	X"	LOS OSOS VALLEY ROAD/PINE AVE	4" FO COND	2,312,121.68	5,713,020.99
C	102	C-PP-121	XXX.XX	107.97 107.38	X"	LOS OSOS VALLEY ROAD/PINE AVE	4" G 6" W	2,312,120.67	5,713,016.10
C	103	C-PP-151	XXX.XX	91.87	X"	LOS OSOS VALLEY ROAD/DORIS AVE	4" FO COND	2,312,179.82	5,711,883.71
C	104	C-PP-119	XXX.XX	115.34	X"	BRODERSON AVE/WOODLAND DR	2" G	2,311,789.22	5,713,513.15
C	105	C-PP-119	XXX.XX	114.93	X"	BRODERSON AVE/WOODLAND DR	6" W	2,311,781.38	5,713,515.84
C	106	C-PP-119	XXX.XX	128.07	X"	BRODERSON AVE/MANZANITA DR	8" W	2,311,477.62	5,713,506.08
C	107	C-PP-119	XXX.XX	142.31	X"	BRODERSON AVE/LILAC DR	2" G	2,311,241.38	5,713,496.67
C	108	C-PP-119	XXX.XX	142.21	X"	BRODERSON AVE/LILAC DR	6" W	2,311,216.00	5,713,496.37
C	109	C-PP-377	XXX.XX	156.95	X"	BRODERSON AVE/MAR VISTA DR	2" G	2,310,961.08	5,713,487.63
C	110	C-PP-377	XXX.XX	157.36	X"	BRODERSON AVE/MAR VISTA DR	6" W	2,310,930.76	5,713,486.19
C	111	C-PP-377	XXX.XX	173.81	X"	BRODERSON AVE/HIGHLAND DR	2" G	2,310,694.35	5,713,477.67
C	112	C-PP-377	XXX.XX	173.74	X"	BRODERSON AVE/HIGHLAND DR	8" W	2,310,669.15	5,713,478.60
C	113	C-PP-141	XXX.XX	162.46	X"	S BAY BLVD	1" G	2,310,918.66	5,718,712.97
C	114	C-PP-141	XXX.XX	170.10	X"	S BAY BLVD	2" G	2,310,792.19	5,718,609.02
C	115	C-PP-141	XXX.XX	172.51	X"	S BAY BLVD	1" G	2,310,707.11	5,718,533.64
C	116	C-PP-141	XXX.XX	173.24	X"	S BAY BLVD	8" W	2,310,670.15	5,718,490.35
C	117	C-PP-139	XXX.XX	126.88	X"	10TH ST	3" COND	2,311,837.00	5,716,789.06
C	118	C-PP-139	XXX.XX	128.07	X"	10TH ST	2" W	2,311,855.08	5,716,782.91

X = DATA NOT AVAILABLE

7/2012	LLB	RLA	CONFORMED	
5/18/12	LLB	RLA	ADDENDUM #1	
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: BJC
 DRAWN BY: LLB
 CHECKED BY: RLA
 DATE: APRIL 2012

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LOS OSOS WASTEWATER COLLECTION SYSTEM
GENERAL POTHOLE DATA - 2

PROJECT NO. 42502-83120
 FILE NAME: C-G-009
 SHEET NO.
C-G-009

GENERAL NOTES

1. THE CONTRACTOR SHALL HAVE COPIES OF THE APPROVED PLANS FOR THIS PROJECT ON THE SITE AT ALL TIMES AND SHALL BE FAMILIAR WITH ALL APPLICABLE STANDARDS AND SPECIFICATIONS.
2. STANDARD SPECIFICATIONS - ALL CONSTRUCTION WORK AND INSTALLATIONS SHALL CONFORM TO THESE CONSTRUCTION DOCUMENTS AND THE COUNTY OF SAN LUIS OBISPO STANDARD PLANS AND SPECIFICATIONS, CURRENT EDITION, AND ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE COUNTY.
3. UTILITY NOTIFICATION - PRIOR TO BEGINNING ANY EARTHWORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL AGENCIES INVOLVED AND SHALL LOCATE ALL FACILITIES PRIOR TO EXCAVATION IN ANY AREA. THE CONTRACTOR SHALL CALL DIG ALERT (USA), TOLL FREE AT 1-800-642-2444 AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
4. EXISTING UTILITIES - THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES WHERE SHOWN ON THE PLANS ARE BASED ON AVAILABLE RECORDS, AND ARE APPROXIMATE ONLY. THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR LOCATING OR HAVING LOCATED ALL UNDERGROUND UTILITIES AND OTHER FACILITIES AND FOR PROTECTING THE SAME DURING THE COURSE OF CONSTRUCTING THE PROJECT. ANY DEVIATIONS FROM THE PLAN LOCATION OF ANY EXISTING FACILITIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE COUNTY INSPECTOR.
5. SITE CONDITIONS - THE CONTRACTOR SHALL CONTINUALLY REVIEW JOB SITE CONDITIONS. CONDITIONS REQUIRING CONSTRUCTION DIFFERENT FROM THAT SHOWN ON THE PLANS SHALL BE REPORTED TO THE COUNTY INSPECTOR PRIOR TO PROCEEDING WITH THE AFFECTED CONSTRUCTION.
6. CONTRACTORS RECORD OF CHANGES - THE CONTRACTOR SHALL MAINTAIN A CURRENT, COMPLETE, AND ACCURATE RECORD OF ALL CHANGES WHICH DEVIATE FROM THE CONSTRUCTION AS SHOWN ON THESE PLANS AND SPECIFICATIONS FOR THE PURPOSE OF PROVIDING THE ENGINEER OF RECORD WITH A BASIS FOR THE PREPARATION OF RECORD DRAWINGS.
7. RECORD DRAWINGS - THE CONTRACTOR SHALL MAINTAIN A SET OF MARKED UP AS-BID DRAWINGS SHOWING ACTUAL INSTALLED AND FIELD CONDITIONS.
8. MANHOLE ENTRY SHALL BE IN COMPLIANCE WITH THE CONFINED SPACE ENTRY REQUIREMENTS OF CAL-OSHA, AND THE COUNTY OF SAN LUIS OBISPO.
9. EXISTING UTILITIES IN THE PROJECT AREA INCLUDING ACP WATER MAINS MAY BE IN A FRAGILE CONDITION. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING NEAR EXISTING UTILITIES.
10. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL LOCATE ALL TRAFFIC SIGNAL LOOPS, CABLES, AND CONDUITS IN THE VICINITY OF THE WORK. TRAFFIC SIGNALS SHALL BE MAINTAINED IN OPERATION DURING CONSTRUCTION AT ALL TIMES. CONTRACTOR SHALL PROTECT EXISTING TRAFFIC SIGNAL LOOPS AND FACILITIES. DAMAGED FACILITIES SHALL BE RESTORED IN ACCORDANCE WITH THE SPECIFICATIONS.
11. PLAN ELEVATIONS OR DEPTHS FOR EXISTING UNDERGROUND UTILITIES ARE BASED ON RECORD DRAWINGS AND SURVEY INFORMATION AND ARE APPROXIMATE ONLY. WHERE NO ELEVATIONS ARE SHOWN, NO SUCH INFORMATION WAS AVAILABLE DURING DESIGN AND CONTRACTOR SHALL EXPOSE THESE UTILITIES FOR FIELD VERIFICATION PRIOR TO CONSTRUCTION.
12. UTILITY SERVICES AND THEIR LOCATION ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL TAKE NECESSARY MEASURES TO LOCATE AND PROTECT SERVICES DURING CONSTRUCTION. NO INTERRUPTION OF UTILITY SERVICES SHALL BE ALLOWED.
13. DIMENSIONS FOR ALL OTHER EXISTING STRUCTURES, REFERENCING PIPING, PAVING, AND OTHER NON-STRUCTURAL ITEMS ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS.
14. FOR ALL STANDARD MANHOLES THE COORDINATE LOCATIONS REPRESENT THE CENTERLINE OF THE MANHOLE BASE UNLESS INDICATED OTHERWISE ON THESE DRAWINGS. MANHOLES LOCATED AT THE INTERSECTIONS MAY BE ADJUSTED SUBJECT TO FIELD VERIFICATION BY THE CONTRACTOR. LOCATIONS OF MANHOLES THAT ARE NOT AT PIPELINE INTERSECTIONS MAY BE ADJUSTED SUBJECT TO APPROVAL BY THE ENGINEER.
15. CONTRACTOR SHALL OBTAIN A PERMIT FROM THE COUNTY OR APPROPRIATE WATER COMPANY FOR THE USE OF CONSTRUCTION WATER. THE PERMIT SHALL BE APPROVED BY THE CALFIRE/COUNTY'S FIRE DEPARTMENT.
16. DISCREPANCIES BETWEEN COORDINATES, BEARINGS AND LENGTHS, AND STATIONING SHALL BE RESOLVED IN THE FOLLOWING ORDER OF PRECEDENCE:
 1. COORDINATES
 2. BEARINGS AND LENGTHS
 3. STATIONING - STATIONING IS BASED ON CONSTRUCTION BASELINE.
17. IN ALL LOCATIONS WHERE TRENCH PLATE IS USED ON THIS PROJECT THE CONTRACTOR SHALL SUPPLY SKID RESISTANT COATING ON THE TRENCH PLATE AND COLD MIX A.C. AT THE EDGES. TRENCH PLATES SHALL BE NOTCHED INTO AC PAVING, WEDGED, AND SHIMMED TO PREVENT SLIPPAGE AND ROCKING UNDER TRAFFIC.
18. MECHANICAL CONSTRUCTION EQUIPMENT USED ON THIS PROJECT SHALL BE SELECTED TO MINIMIZE DAMAGE TO THE EXISTING PAVEMENT ALONG THE PROJECT SITE. THE CONTRACTOR SHALL REPLACE DAMAGED AC PAVEMENT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AT NO ADDITIONAL COST TO THE COUNTY.
19. SANITARY SEWER INSTALLATION MAY REQUIRE CURB, GUTTER AND SIDEWALK, AND CONCRETE V-DITCH/VALLEY GUTTER REMOVAL AND REPLACEMENT. THE CONTRACTOR SHALL INCLUDE ALL COSTS IN THE APPROPRIATE BID ITEM(S).
20. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL SURPLUS EXCAVATION MATERIAL AND DEBRIS PROMPTLY FROM THE SITE AND SHALL MAINTAIN THE SITE IN A NEAT AND ORDERLY CONDITION. CONTRACTOR SHALL OBTAIN ALL NECESSARY FILL AND GRADING PERMITS.
21. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, COUNTY, AND DISTRICT LAWS AND ORDINANCES RELATING TO THE SAFETY AND CHARACTER OF WORK, EQUIPMENT AND LABOR PERSONNEL. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO, THE SHORING OF TRENCHES, VENTILATORS OF CONFINED SPACES, CONFORMANCE TO TRAFFIC CONTROL REQUIREMENTS INCLUDING THE PROVISION AND MAINTENANCE OF BARRICADES AND THE PREPARATION AND IMPLEMENTATION OF TRAFFIC CONTROL PLANS AS REQUIRED.
22. PIPE LENGTHS ARE THROUGH MANHOLE AS INDICATED. STATIONING IS ALONG THE CONSTRUCTION BASELINE.
23. THE CONTRACTOR SHALL ABIDE BY ALL PROJECT PERMITS OBTAINED BY THE COUNTY. SEE SPECIFICATIONS SECTION 01060.
24. THE CONTRACTOR SHALL OBTAIN CONSTRUCTION PERMITS FROM REGULATORY, UTILITY, AND ANY OTHER AGENCIES REQUIRING PERMITTING FOR THIS CONSTRUCTION WORK. THE CONTRACTOR SHALL PROVIDE A WRITTEN SIGNED RELEASE FROM EACH AGENCY UPON COMPLETION OF CONSTRUCTION.
25. ALL DEWATERING WATER SHALL BE DISCHARGED IN ACCORDANCE WITH RWQCB, AND COUNTY OF SAN LUIS OBISPO PERMIT REQUIREMENTS INCLUDING DESILTING, AND ONLY TO APPROVED DISCHARGE LOCATIONS. DEWATERING WELLS SHALL BE ABANDONED ACCORDING TO RWQCB, AND COUNTY OF SAN LUIS OBISPO REQUIREMENTS.
26. CONTRACTOR SHALL PROTECT AND MAINTAIN EXISTING STORM DRAIN FACILITIES AT ALL TIMES.
27. CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY PAVEMENT AT ALL TIMES.
28. CONTRACTOR SHALL BACKFILL TRENCH TO GRADE AND/OR TRAFFIC PLATE AT THE END OF EACH DAY.
29. CONTRACTOR SHALL MAINTAIN EXISTING SANITARY SEWER SERVICE AT ALL TIMES. PROVIDE BYPASS PUMPING FACILITIES INCLUDING STANDBY PUMPS AND GENERATORS. EXISTING SEPTIC TANK SYSTEMS SHALL BE MAINTAINED UNTIL THE NEW SANITARY SEWER SYSTEM IS READY FOR LATERAL CONNECTIONS TO BE MADE.
30. PROVIDE K-RAIL AND CHAINLINK FENCING AROUND ALL TUNNEL ACCESS PITS. K-RAIL AND FENCE SHALL CONFORM TO THE STANDARD PLANS AND SPECIFICATIONS. PROVIDE BARRICADES WITH FLASHING LIGHTS AT EACH PIT LOCATION.
31. CONTRACTOR SHALL IDENTIFY EXISTING SURVEY MONUMENTS THAT WILL BE IMPACTED BY CONSTRUCTION. CONTRACTOR SHALL REESTABLISH MONUMENTS WITH RECORD OF SURVEY.
32. AERIAL PHOTOS USED TO PREPARE SURFACE FEATURES SHOWN ON PLANS WERE TAKEN IN 1995 AND MAY NOT ACCURATELY DEPICT EXISTING CONDITIONS. CONTRACTOR SHALL FIELD VERIFY CONDITIONS PRIOR TO CONSTRUCTION AND INCLUDE COSTS IN HIS BID THEREFOR.
33. ALL SEWERS SHALL STRICTLY CONFORM TO THE LINES AND GRADES SHOWN ON THE DRAWINGS.
34. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHILE WORKING AROUND GAS, FIBER OPTIC AND ELECTRIC UTILITIES.
35. CONTRACTOR SHALL MONITOR GROUND SURFACE AND UNDERGROUND UTILITIES FOR THE PRESENCE OF TUNNEL SLURRY OR EVIDENCE OF HYDROFRACTURE AT ALL TIMES DURING TUNNEL ACTIVITIES ALONG ENTIRE TUNNELED ALIGNMENT.
36. LOW OVERHEAD ELECTRICAL AND TELEPHONE LINES ARE PRESENT IN THE PROJECT AREA. MAJORITY OF LINES ONLY PROVIDE 8 TO 10 FEET OF CLEARANCE FROM GROUND SURFACE. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHILE WORKING AROUND OVERHEAD UTILITIES.
37. BORE AND RECEIVING PITS SIZING SHALL BE DETERMINED BY CONTRACTOR AND SHALL BE SOLID SHEETED WITH CONTINUOUSLY INTERLOCKED SHEET PILES.
38. CONTRACTOR SHALL MAINTAIN TRAFFIC AND ACCESS PER THE TRAFFIC CONTROL REQUIREMENTS OF THE CONTRACT DOCUMENTS AND THE COUNTY OF SAN LUIS OBISPO.
39. PROPERTY LINES SHOWN ARE APPROXIMATE.
40. STREET RESTORATION SHALL INCLUDE REPLACEMENT OF CONCRETE VEE-DITCH/VALLEY GUTTER WHEN REMOVED FOR OR DAMAGED BY CONSTRUCTION.
41. THESE DESIGN DRAWINGS AND RESPECTIVE SPECIFICATIONS HAVE BEEN DEVELOPED BASED ON THE BASIS OF DESIGN REPORT DATED OCTOBER 24, 2011, AND ACCEPTED/APPROVED BY THE SAN LUIS OBISPO COUNTY DEPARTMENT OF PUBLIC WORKS ON NOVEMBER 15, 2011.
42. REFERENCE MADE TO SHEETS THAT BEGIN WITH PREFIXES PS-, A-, OR D- ARE NIC. REFERENCES ARE MADE FOR INFORMATION ONLY.
43. ELECTRICAL CONDUIT AND MANHOLES ALONG PIPE LINE GENERAL NOTES:
 1. REFER TO SPECIFICATION 16800 - FIBER OPTIC AND POWER CONDUITS ALONG PIPELINES.
 2. REFER TO ELECTRICAL DRAWINGS FOR CONDUIT QUANTITY AND SIZES.
 3. REFER TO ELECTRICAL DRAWINGS FOR MANHOLE SIZES.
 4. REFER TO ELECTRICAL DRAWINGS FOR CONDUIT TERMINATION LOCATION AT POCKET PUMP STATIONS, SUBMERSIBLE PUMPS STATIONS, STANDBY POWER BUILDINGS, ELECTRICAL EQUIPMENT AREAS, AND OTHER PANELS.

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REV. NO.	DATE	DRWN	CHKD	REMARKS
7/2012	LLB	RLA	CONFORMED	
6/07/12	LLB	RLA	ADDENDUM	

DESIGNED BY: BJC
 DRAWN BY: JAW
 CHECKED BY: RLA
 DATE: APRIL 2012

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LOS OSOS WASTEWATER COLLECTION SYSTEM
GENERAL NOTES

PROJECT NO.42502-83120
 FILE NAME: C-G-010
 SHEET NO.
C-G-010

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A	B	C	D	E	F	G	H	I	J	K	L
<p>STRUCTURE OR FACILITY</p> <p>EXISTING STRUCTURE OR FACILITY</p> <p>FUTURE STRUCTURE OR FACILITY</p>		<p>PIPE IN SECTION</p> <p>CL OR C CENTERLINE</p> <p>PL OR P PROPERTY LINE</p> <p>R/W RIGHT-OF-WAY LINE</p> <p>ESMT EASEMENT LINE</p> <p>TEMP ESMT TEMPORARY EASEMENT LINE</p>		<p>FOR GRAVITY PLAN AND PROFILE ONLY</p> <p>NEW SANITARY SEWER</p> <p>NEW SANITARY SEWER MANHOLE</p> <p>NEW FIBER OPTIC/ELECTRICAL CONDUIT</p> <p>EXISTING SANITARY SEWER MANHOLE</p> <p>EXISTING STORM DRAIN AND MH</p> <p>EXISTING BURIED TELEPHONE</p> <p>EXISTING GAS LINE W/VALVE</p> <p>EXISTING WATER LINE W/VALVE AND FIRE-HYDRANT</p> <p>PLUG & ABANDON EXIST SANITARY SEWER, SEWER AND MANHOLE SHALL BE FILLED WITH GROUT</p> <p>STATE OF CALIFORNIA RIGHT OF WAY ACCESS CONTROLLED AREA</p> <p>EXIST FIBER OPTIC</p> <p>EXIST STORM DRAIN</p> <p>EXIST SANITARY SEWER</p> <p>EXIST BURIED ELECTRICAL</p> <p>EXIST TELEPHONE</p> <p>CENTER LINE</p> <p>EXIST GAS</p> <p>EXIST TRAFFIC SIGNAL</p> <p>FENCE (NEW)</p> <p>FENCE (EXISTING)</p> <p>WATER COURSE</p> <p>TRAIL OF DIRT ROAD</p> <p>MAJOR CONTOUR LINE (NEW)</p> <p>MAJOR CONTOUR LINE (EXISTING)</p> <p>VEGETATION</p> <p>POWER POLE</p> <p>GRINDER PUMP</p>		<p>FOR FORCE MAIN/RECYCLE WATER MAIN PLAN AND PROFILE ONLY</p> <p>CAV OR PRESSURIZED CO IN PLAN</p> <p>CAV IN PROFILE</p> <p>BOV IN PLAN</p> <p>BOV OR PRESSURIZED CO IN PROFILE</p> <p>GATE VALVE</p> <p>PLUG VALVE</p> <p>CAPPED END OR PLUGGED END</p>		<p>FOR PUMP STATION ONLY</p> <p>GATE VALVE</p> <p>BUTTERFLY VALVE</p> <p>CAPPED END OR PLUGGED END</p> <p>BLIND FLANGE</p> <p>REDUCER OR INCREASER</p> <p>PIPE CALLOUT</p> <p>EQUIPMENT NUMBER</p>		<p>SECTION AND DETAIL IDENTIFICATION</p> <p>SECTION IDENTIFICATION</p> <p>SECTION LETTER</p> <p>SECTION</p> <p>DETAIL IDENTIFICATION</p> <p>DETAIL NUMBER</p> <p>DETAIL</p> <p>STANDARD DETAIL IDENTIFICATION</p> <p>STANDARD DETAILS ARE LOCATED ON DISCIPLINE GENERAL SHEETS, IN NUMERICAL ORDER</p> <p>ELEVATION IDENTIFICATION</p> <p>ELEVATION NUMBER</p> <p>ELEVATION</p> <p>PIPING IDENTIFICATION</p> <p>PIPE DIAMETER</p> <p>FLUID ABBREVIATION</p>	

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: BJC
 DRAWN BY: JAW
 CHECKED BY: RLA
 DATE: APRIL, 2012

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LOS OSOS WASTEWATER COLLECTION SYSTEM

GENERAL SYMBOLS

PROJECT NO. 42502-83120
 FILE NAME: C-G-011
 SHEET NO.
C-G-011

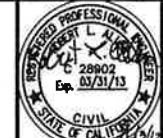
Main table of abbreviations with columns A through L. Each column contains a list of abbreviations and their corresponding full names.

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DRAWN BY: JAW
CHECKED BY: RLA
DATE: APRIL, 2012

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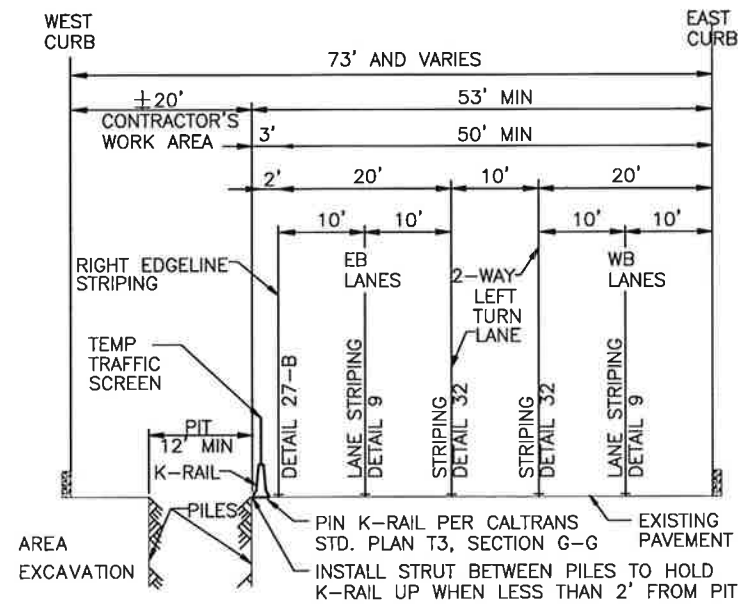
LOS OSOS WASTEWATER COLLECTION SYSTEM
GENERAL ABBREVIATIONS
PROJECT No. 42502-83120
FILE NAME: C-G-012
SHEET NO.
C-G-012

GENERAL NOTES:

- TRAFFIC CONTROL PLANS DO NOT SHOW ALL WORK REQUIRED TO BE COMPLETED. WORK NOT NECESSARY FOR TRAFFIC CONTROL MAY BE COMPLETED AT ANY TIME AND IS NOT SHOWN.
- CONTRACTOR SHALL INSTALL AND MAINTAIN THE TRAFFIC CONTROL DEVICES AS SHOWN HEREIN, AS WELL AS ANY ADDITIONAL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED TO ENSURE THE SAFE MOVEMENT OF TRAFFIC AND PEDESTRIANS THROUGH OR AROUND THE CONSTRUCTION AREA AND TO PROVIDE MAXIMUM PROTECTION AND SAFETY TO CONSTRUCTION WORKERS.
- THE ENGINEER RESERVES THE RIGHT TO OBSERVE TRAFFIC CONTROL PLANS IN USE AND TO MAKE NECESSARY CHANGES AS FIELD CONDITIONS WARRANT. ANY CHANGES SHALL SUPERCEDE THESE PLANS AND SHALL BE PROVIDED AT NO ADDITIONAL COST/TIME TO THE OWNER.
- ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED FOLLOWING COMPLETION OF EACH CONSTRUCTION PHASE.
- CONTRACTOR SHALL REPLACE OR REPAIR ALL DAMAGED STRIPING WITH TEMPORARY STRIPING OR RAISED PAVEMENT MARKERS AT THE END OF EACH WORKING DAY.
- CONTRACTOR SHALL TEMPORARILY COVER OR REMOVE ALL CONFLICTING SIGNS.
- ALL SIGNS, STRIPING, PAVEMENT MARKINGS, CHANNELIZERS, BARRICADES, TEMPORARY RAILING, TEMPORARY CRASH CUSHIONS AND OTHER TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST CALTRANS STANDARD PLANS AND STANDARD SPECIFICATIONS.
- ALL EXISTING SIGNING NOT IN CONFORMANCE WITH THE DETOUR PLANS SHALL BE COVERED FOR THE DURATION OF THE DETOUR. ALL EXISTING STOP SIGNS SHALL BE RELOCATED AS REQUIRED TO BE VISIBLE FROM ALL RELOCATED TRAFFIC LANES.
- ALL EXISTING FACILITIES, INCLUDING SIGNING, STRIPING, SIGNS, MARKING, AND MARKERS NOT INDICATED TO BE REMOVED SHALL BE RESTORED TO THE ORIGINAL CONDITION AND/OR LOCATION AT THE END OF THE CONSTRUCTION PERIOD.
- ALL TEMPORARY FACILITIES CONSTRUCTED FOR THE PURPOSES OF EACH DETOUR SHALL BE REMOVED AT THE COMPLETION OF THE CONSTRUCTION PERIOD.
- CONSTRUCTION TRAFFIC CONTROL SHALL CONFORM TO THE LATEST MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2010 CALIFORNIA EDITION.
- ALL STRIPING, MARKINGS, SIGNINGS, BARRICADES, AND MARKERS SHALL BE INSTALLED PER THE MUTCD, CALTRANS TRAFFIC MANUAL AND THE REQUIREMENTS OF THE COUNTY OF SAN LUIS OBISPO.
- ALL ADVANCE WARNING SIGNS FOR DETOURS SHALL BE 48"x48" MINIMUM OR LARGER UNLESS OTHERWISE SPECIFIED.
- ALL ADVANCE WARNING SIGNS SHALL BE REFLECTORIZED.
- THE LOCATION OF ALL SIGNS SHOWN ARE ONLY APPROXIMATE AND THE EXACT LOCATION SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- THE CONTRACTOR SHALL PROVIDE SAFE AND CONTINUOUS PASSAGE OF PEDESTRIANS, BICYCLE AND VEHICULAR TRAFFIC AT ALL TIMES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION, CONTINUAL MAINTENANCE AND THE REMOVAL OF TRAFFIC CONTROL DEVICES SPECIFIED IN THE MUTCD.
- CONTRACTOR SHALL NOTIFY THE COUNTY TRAFFIC SIGNAL AND STREET LIGHTING SUPERVISOR FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION OR CONSTRUCTION WITHIN 20 FEET OF EXISTING TRAFFIC SIGNAL DETECTOR LOOPS, CONDUITS, INTERCONNECTS, OR FIBER OPTIC CABLE.
- ANY DAMAGE TO TRAFFIC SIGNAL DETECTOR LOOPS, CONDUITS, INTERCONNECTS, FIBER OPTIC CABLE OR COMMUNICATION CABLE SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR AT THEIR OWN EXPENSE. REPAIR SHALL BE A COMPLETE REINSTALLATION OF NEW CONDUCTORS FOR THE ENTIRE LENGTH FROM THE TERMINAL CABINET. IN-LINE SPACING IS NOT ALLOWED, DELAYS IN REPAIR OF INTERCONNECT OR FIBER OPTIC CABLE WILL REQUIRE THE PAYMENT OF LIQUIDATED DAMAGES TO THE COUNTY OF SAN LUIS OBISPO, DEPARTMENT OF ENVIRONMENTAL AND PUBLIC WORKS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE WET SANDBLASTING, TURBOBLASTING OR HYDROBLASTING OF CONFLICTING STRIPING AND PAVEMENT MARKINGS INCLUDING THE CLEANUP OF ALL RESULTING DEBRIS. COVERING OF EXISTING STRIPING WITH BLACK PAINT IS NOT PERMITTED.
- ANY VEHICULAR OR PEDESTRIAN SIGNS THAT ARE OBSCURED, OR HAVE IMPAIRED OR REDUCED VISIBILITY, SHALL BE REPLACED IMMEDIATELY BY THE CONTRACTOR UPON IDENTIFICATION AND NOTIFICATION OF THE COUNTY TRAFFIC ENGINEER.
- A 2-FOOT MINIMUM CLEARANCE MUST BE MAINTAINED BETWEEN SURFACE-MOUNTED CHANNELIZERS AND THE LANE AT ALL TIMES. A MINIMUM 10-FOOT WIDE LANE IS REQUIRED ADJACENT TO CURBS, AND WHERE THERE ARE VERTICAL OBSTRUCTIONS.
- THE CONTRACTOR SHALL INSTALL A 4-INCH SOLID WHITE RIGHT EDGE LINE (DETAIL 27B) AND A 4-INCH SOLID YELLOW LEFT EDGE LINE (DETAIL 25) OR MEDIAN ISLANDS (DETAIL 29) LOCATED AT A MINIMUM OF TWO FEET FROM THE EDGE OF A FENCE, CANOPY, OR K-RAIL TO DELINEATE THE EDGE OF TRAVELED ROADWAY. EDGE LINES MUST ALLOW FOR A MINIMUM 10-FOOT LANE BETWEEN EDGE LINE AND LANE OR CENTER LINE.
- CONTRACTOR SHALL PROVIDE FLAGGERS FOR SINGLE LANE TRAFFIC CONTROL AND IN OTHER CASES IF NECESSARY FOR THE SAFE PASSAGE OF TRAFFIC. THE FLAGGER SHALL USE ONLY THE APPROVED OCTAGONAL STOP/SLOW PADDLE, SHALL WEAR AN ORANGE SAFETY VEST (REFLECTORIZED FOR NIGHT WORK) AND HARD HAT, AS REQUIRED BY THE CALTRANS CONSTRUCTION MANUAL, AND MUST BE PROPERLY TRAINED BY THE CONTRACTOR IN PERFORMING THE WORK SAFELY. APPROPRIATE ADVANCE SIGNS MUST ALSO BE INSTALLED, PER THE MUTCD AND THE CALTRANS TRAFFIC MANUAL.
- ALL TRAFFIC SIGNAL CONTROLLER, SIGNAL STANDARDS, AND OTHER ASSOCIATED SIGNAL EQUIPMENT AND PULL BOXES MUST BE ACCESSIBLE AT ALL TIMES TO THE COUNTY'S TRAFFIC SIGNAL REPAIR (TSR) PERSONNEL. ALL FENCES MUST BE INSTALLED SUCH AS TO PERMIT ACCESS BY TSR PERSONNEL AT ALL TIMES.
- THERE SHALL BE NO STORAGE OF CONSTRUCTION MATERIALS OR EQUIPMENT OUTSIDE THE DESIGNATED WORK AREA AS INDICATED IN THE WORK SITE TRAFFIC PLANS. STORAGE OF CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN THE DESIGNATED AREA SHALL BE DONE IN A MANNER NOT TO CREATE VISIBILITY OBSTRUCTIONS TO THE MOTORING PUBLIC AS DETERMINED BY THE ENGINEER.
- WHEN WORK IS NOT IN PROGRESS, CONTRACTOR SHALL PROVIDE TEMPORARY STRIPING IN AREAS WHERE EXISTING STRIPING HAS BEEN REMOVED.

TRAFFIC CONTROL PLANS FOR THE LOS OSOS WASTEWATER COLLECTION SYSTEM AREA C COUNTY OF SAN LUIS OBISPO, CALIFORNIA

- THE NAME AND PHONE NUMBER (24 HOUR AVAILABILITY) OF THE CONTRACTOR'S SAFETY COORDINATOR AND TRAFFIC CONTROL DEVICE MAINTENANCE MONITOR WILL BE PROVIDED TO THE AUTHORITY AND THE COUNTY'S TRAFFIC ENGINEER AND ANY CHANGE IN ASSIGNED PERSONNEL OR PHONE NUMBER WILL BE REPORTED IMMEDIATELY TO AUTHORITY AND THE COUNTY'S TRAFFIC ENGINEER.
- ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE REMOVED FOLLOWING COMPLETION OF EACH CONSTRUCTION PHASE. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE RESTORATION OF THE STRIPING, PAVEMENT MARKINGS, AND TRAFFIC CONTROL DEVICES TO THE PERMANENT CONDITION USING CALTRANS APPROVED MATERIALS. THE COUNTY ENGINEER SHALL APPROVE THE CONTRACTORS STRIPING MARKOUT BEFORE THE FINAL INSTALLATION OF STRIPING BY THE CONTRACTOR. NOTIFY THE TRAFFIC ENGINEER TEN (10) WORKING DAYS PRIOR TO FINAL STRIPING INSTALLATION.
- ALL DRIVEWAYS AND SIDE STREETS SHALL BE KEPT OPEN AT ALL TIMES EXCEPT WHEN CONSTRUCTION TAKES PLACE DIRECTLY IN FRONT OF DRIVEWAY OR SIDE STREET. ALL OPEN EXCAVATIONS ON PUBLIC STREETS SHALL BE BACK-FILLED OR STEEL-PLATED (TRAFFIC RATED, ANTI-SKID) FOR TRAFFIC OUTSIDE THE WORKING HOURS. TRAFFIC SHALL BE RESTORED TO NORMAL CONDITIONS OUTSIDE THE WORKING HOURS.
- NOTIFY LOCAL FIRE DEPARTMENT, POLICE DEPARTMENT, AMBULANCE SERVICES AND TRASH SERVICES 48 HOURS IN ADVANCE OF CONSTRUCTION IN THE VARIOUS STAGE AREAS.
- CONTRACTOR SHALL INSTALL C40A SIGNS (TRAFFIC FINES DOUBLED IN CONSTRUCTION AREA) ONE FOR EACH DIRECTION, AT THE BEGINNING OF EACH WORK ZONE.
- FOR STREET DESIGNATIONS AND APPLICABLE SPECIFIC TRAFFIC CONTROL REQUIREMENTS, SEE SECTIONS 1.03 AND 1.04 OF THE PROJECT SPECIFICATIONS, SECTION 01571, TRAFFIC CONTROL.
- ALSO SEE SPECIFICATIONS SECTION 01571 - TRAFFIC CONTROL FOR ADDITIONAL REQUIREMENTS.



TYPICAL FOUR-LANE CONSTRUCTION SECTION
STA. 76+00-133+00
NO SCALE

TYPICAL SECTION NOTES:

- WHEN THIS TYPICAL FOUR-LANE CONSTRUCTION SECTION IS USED IN AREAS WHERE ON-STREET PARKING IS USUALLY ALLOWED ON THE SHOULDER, TEMPORARY "NO PARKING" SIGNS SHALL BE INSTALLED WITHIN THE LIMITS OF THE CONSTRUCTION AREA.
- FOR ALL TWO-LANE PORTIONS OF LOS OSOS VALLEY ROAD, WITH OR WITHOUT A TWO-WAY LEFT TURN LANE, MINIMUM LANE WIDTHS THROUGH CONSTRUCTION ZONES SHALL BE 11' UNLESS OTHERWISE NOTED ON TRAFFIC CONTROL PLANS OR APPROVED BY THE COUNTY ENGINEER.

WORK TO BE DONE

THE TRAFFIC CONTROL PLANS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS, SPECIAL PROVISIONS, PROJECT SPECIFICATIONS, AND THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE COUNTY OF SAN LUIS OBISPO, CALIFORNIA.

STANDARD SPECIFICATIONS

- STANDARDS AND SPECIFICATIONS, COUNTY OF SAN LUIS OBISPO (2011).
- MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2010 CALIFORNIA EDITION.
- CALIFORNIA DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS (2010).

STANDARD DRAWINGS

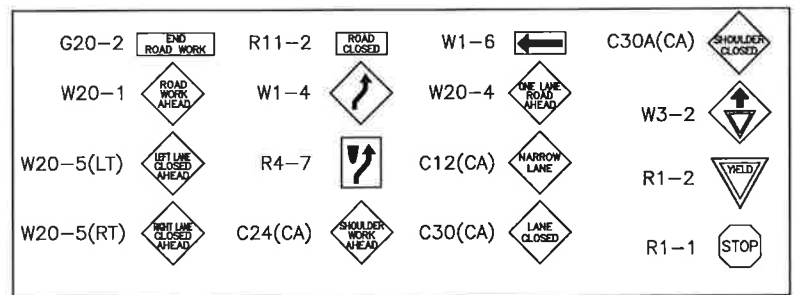
- STANDARD CONSTRUCTION DRAWINGS, SAN LUIS OBISPO COUNTY DEPARTMENT OF PUBLIC WORKS (NOV. 2008).
- MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2010 CALIFORNIA EDITION.
- CALIFORNIA DEPARTMENT OF TRANSPORTATION, STANDARD PLANS (2010).

LEGEND:

- CONSTRUCTION AREA
- FIRST ORDER OF WORK
- DIRT STOCKPILE
- TEMPORARY RAILING (TYPE K) WITH TRAFFIC SCREEN
- TEMPORARY CRASH CUSHION MODULES (ARRAY AS NOTED)
- ONE POST SIGN LOCATION
- SURFACE MOUNTED CHANNELIZER
- FLAGPERSON
- BARRICADE
- TYPE P MARKER
- CONSTRUCTION SIGN NUMBER
- TEMPORARY PAVEMENT DELINEATION DETAIL
- SIGNALIZED INTERSECTION
- DIRECTION OF TRAVEL

CONSTRUCTION AREA SIGNS:

(MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2010 CALIFORNIA EDITION)



SCALE: NO SCALE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: _____ RDH
 DRAWN BY: _____ RDH
 CHECKED BY: _____ DAD
 DATE: _____ APRIL 2012

CDM Smith
 2295 Gateway Oaks Drive, Suite 240
 Sacramento, CA 95833
 Tel: (916) 567-9900



0 1/2 1
 IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY

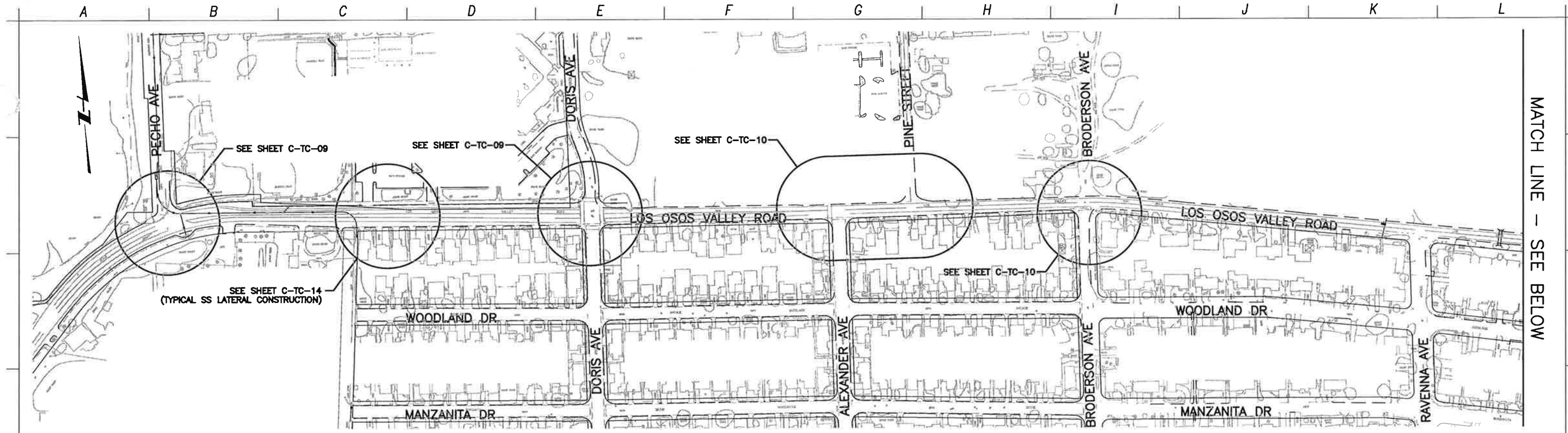


RICK GALT
 ENGINEERING COMPANY
 111 FARM ROAD NORTH, SUITE 110
 SAN LUIS OBISPO, CA 95050
 (805) 461-1111

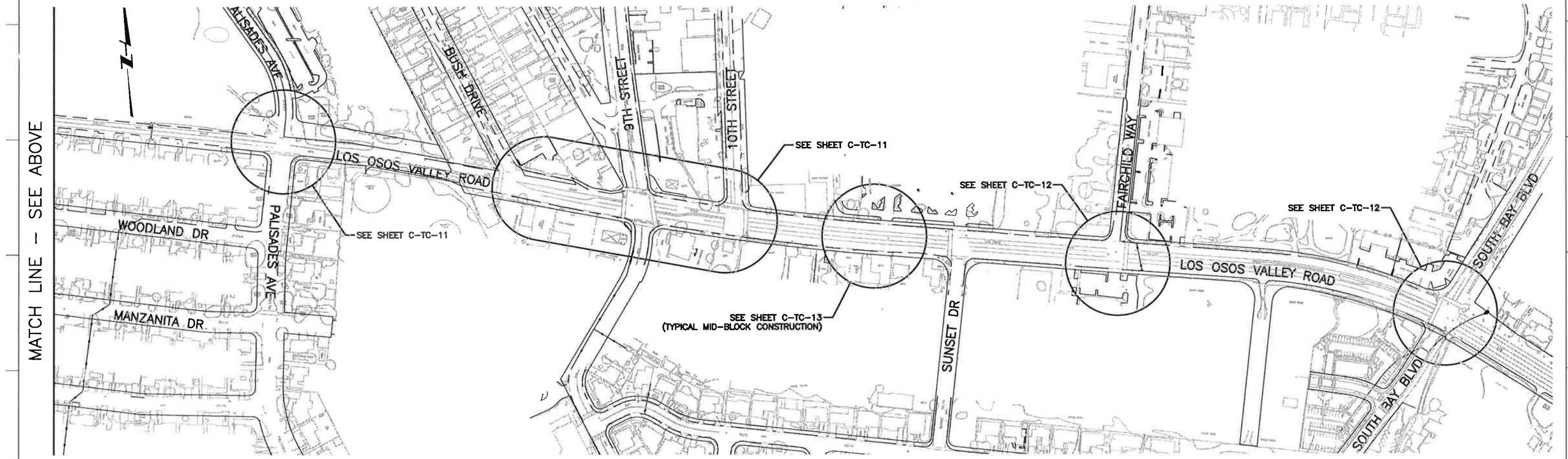
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 DIAL TOLL FREE
 1-800-642-2444
 AT LEAST TWO DAYS BEFORE YOU DIG
 UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM
AREA C TRAFFIC CONTROL PLAN
 GENERAL NOTES, LEGEND AND ABBREVIATIONS

PROJECT NO. 42502-83120
 FILE NAME: C-TC-01
 SHEET NO.
C-TC-001



LOS OSOS VALLEY ROAD



LOS OSOS VALLEY ROAD

MATCH LINE - SEE ABOVE

MATCH LINE - SEE BELOW

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: RDH
 DRAWN BY: RDH
 CHECKED BY: DAD
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 IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY

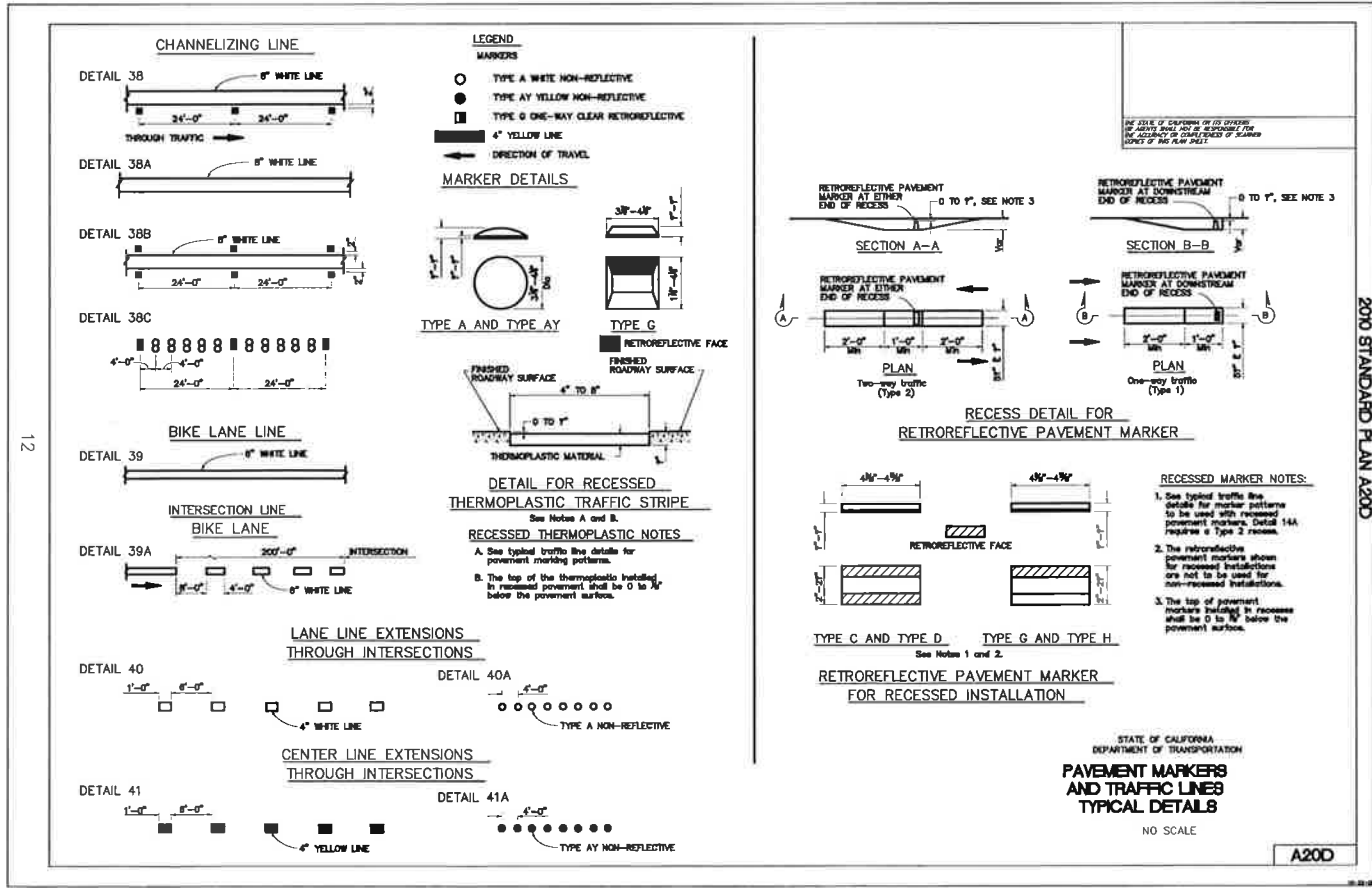
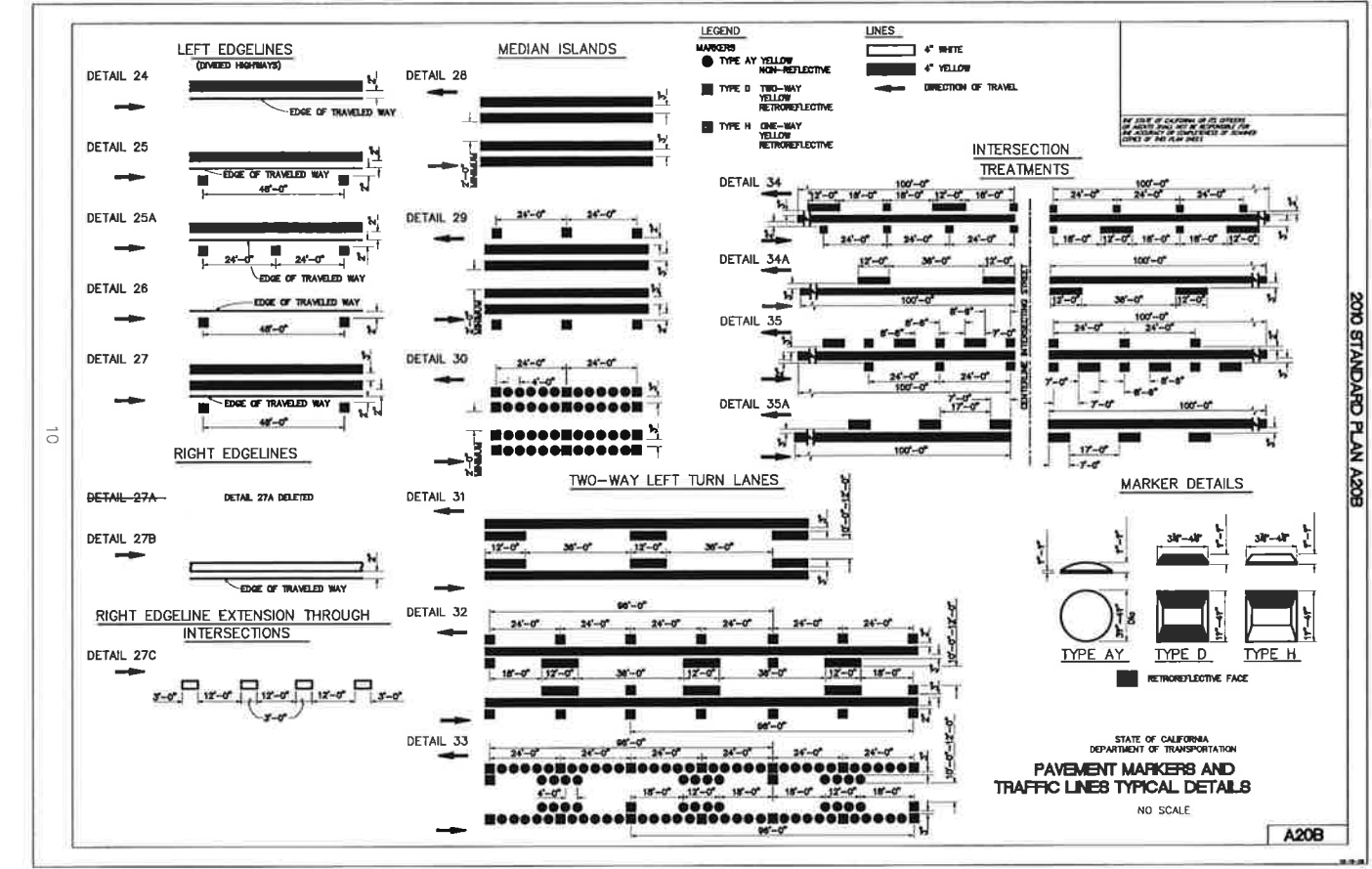
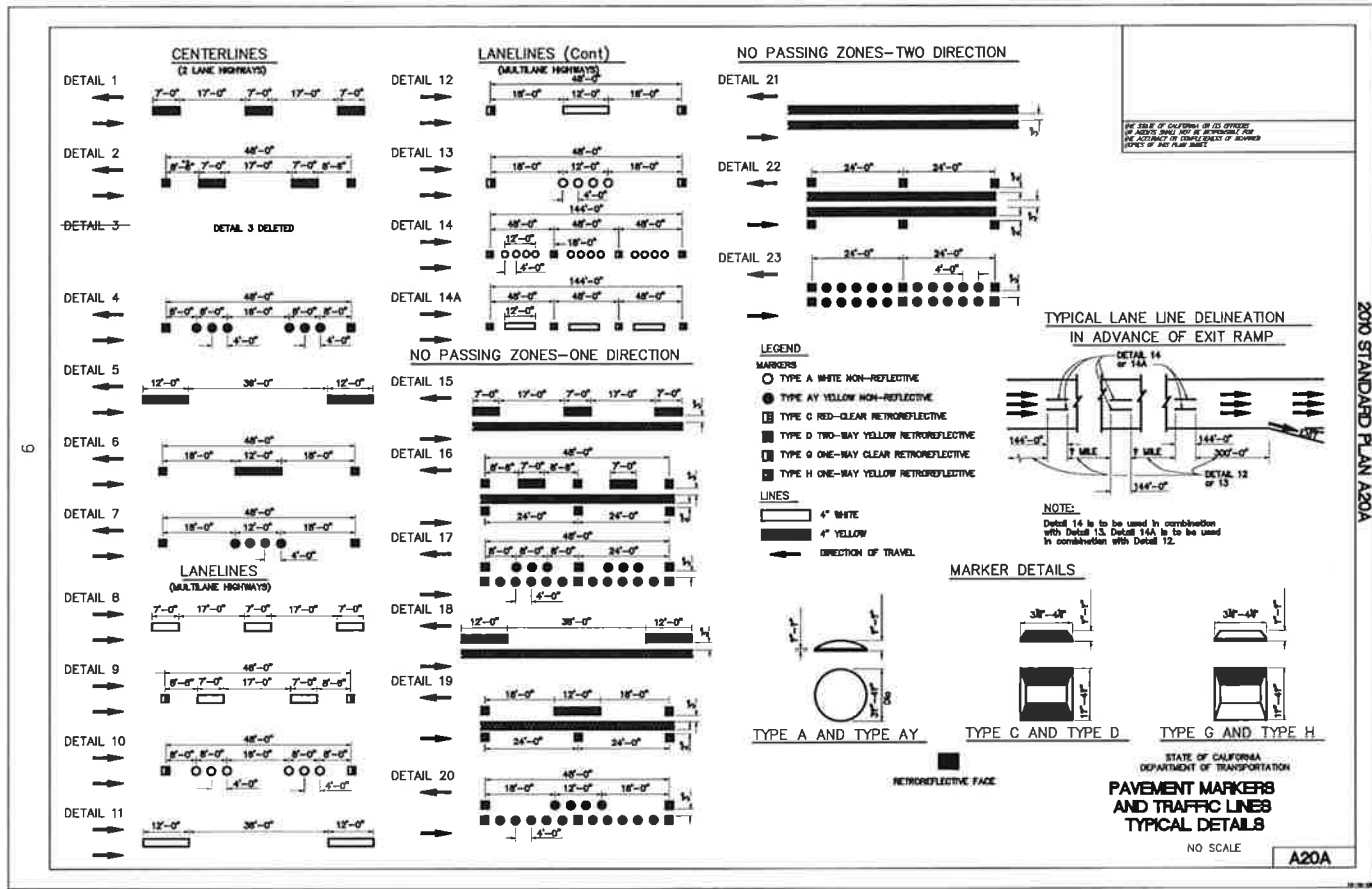


RICK
 ENGINEERING COMPANY
 711 TOWN PARK ROAD, SUITE 118
 SAN LEITE, CALIFORNIA 94101
 (415) 441-0001
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 www.rickeng.com

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LOS OSOS WASTEWATER COLLECTION SYSTEM
 AREA C TRAFFIC CONTROL PLAN
 INDEX MAP

SCALE: NO SCALE
 PROJECT NO. 42502-83120
 FILE NAME: C-TC-02
 SHEET NO.
C-TC-002



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: _____ RDH
 DRAWN BY: _____ RDH
 CHECKED BY: _____ DAD
 DATE: _____ APRIL 2012

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 Sacramento, CA 95833
 Tel: (916) 567-9900



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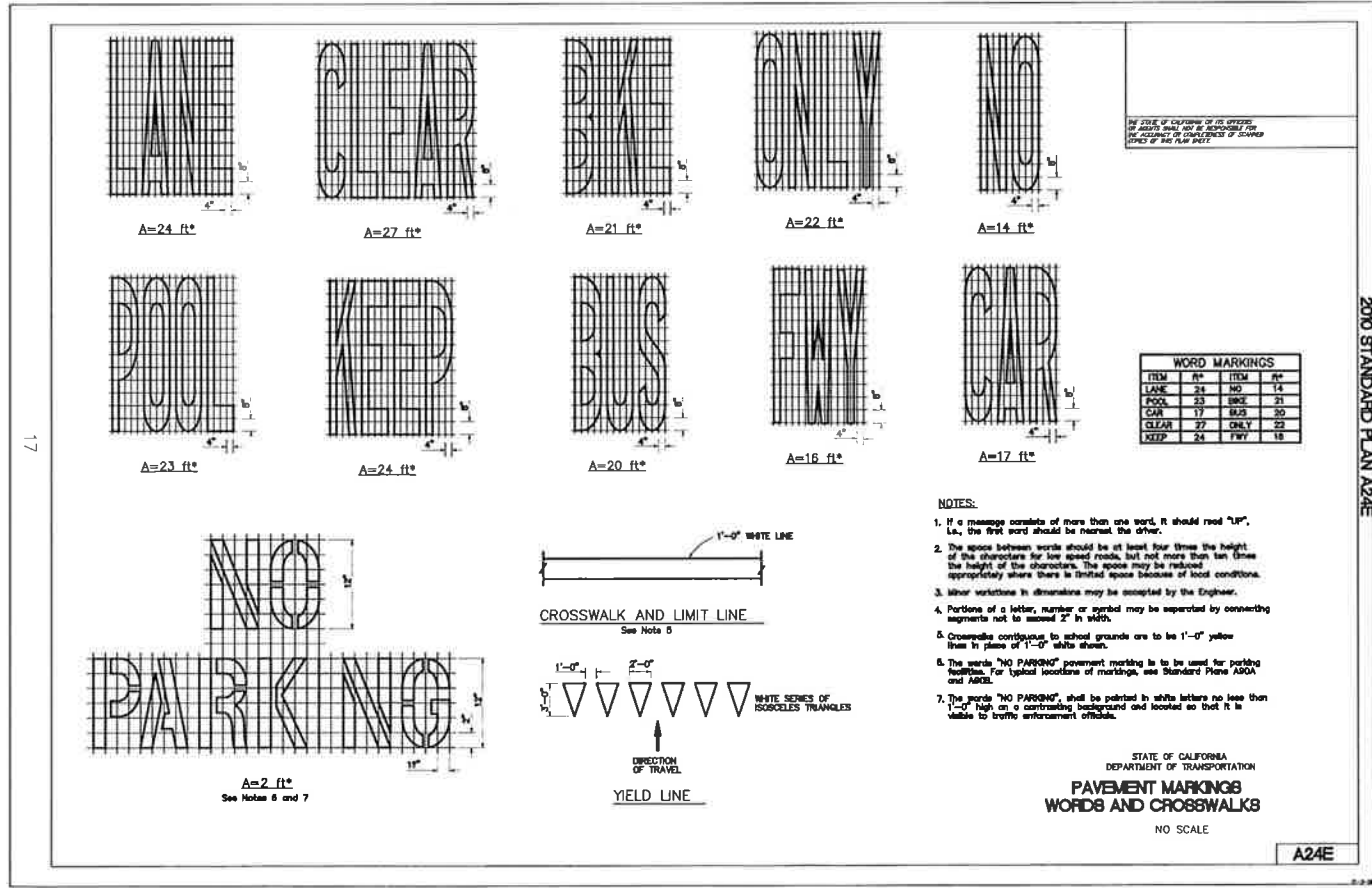
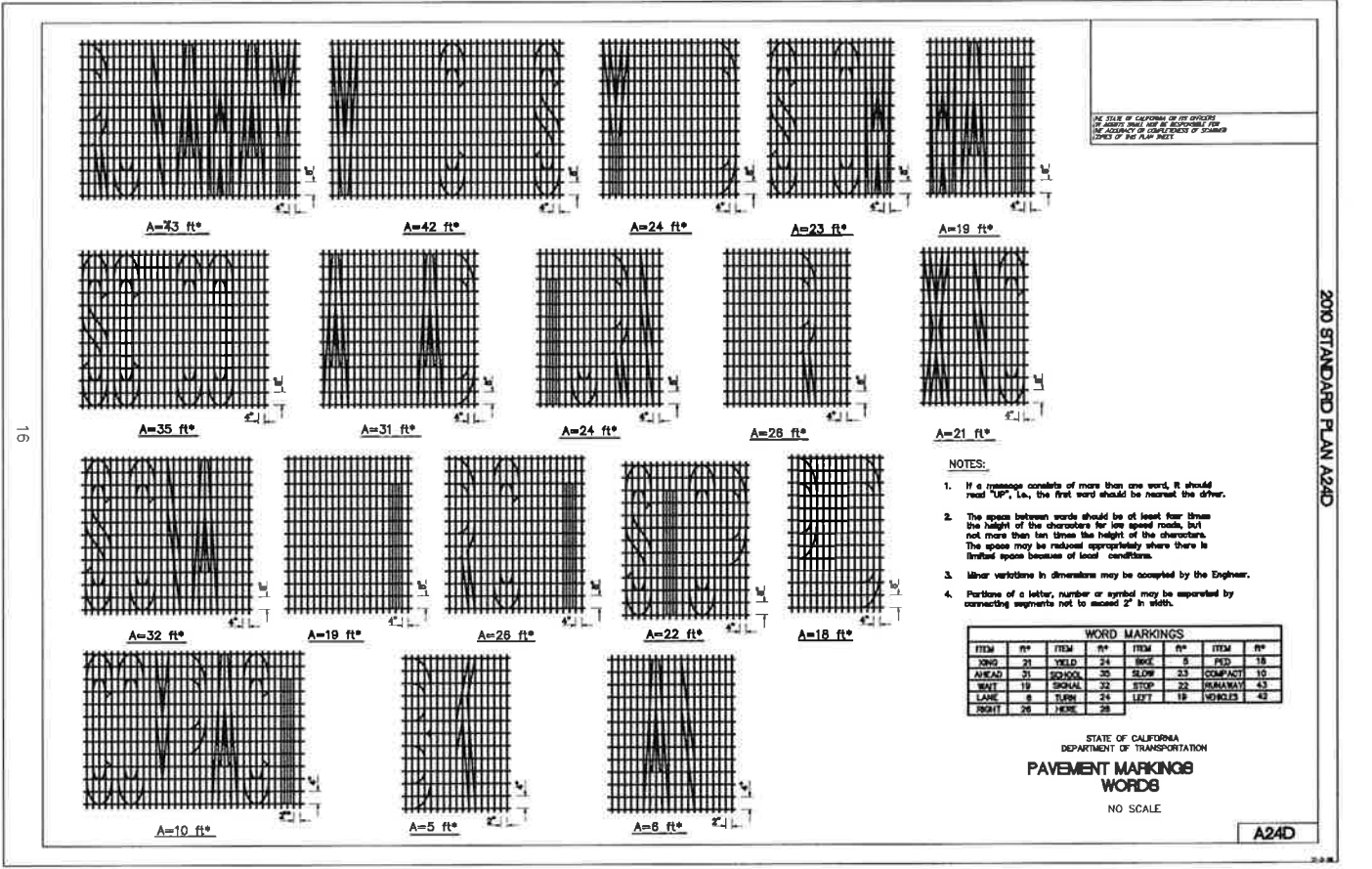
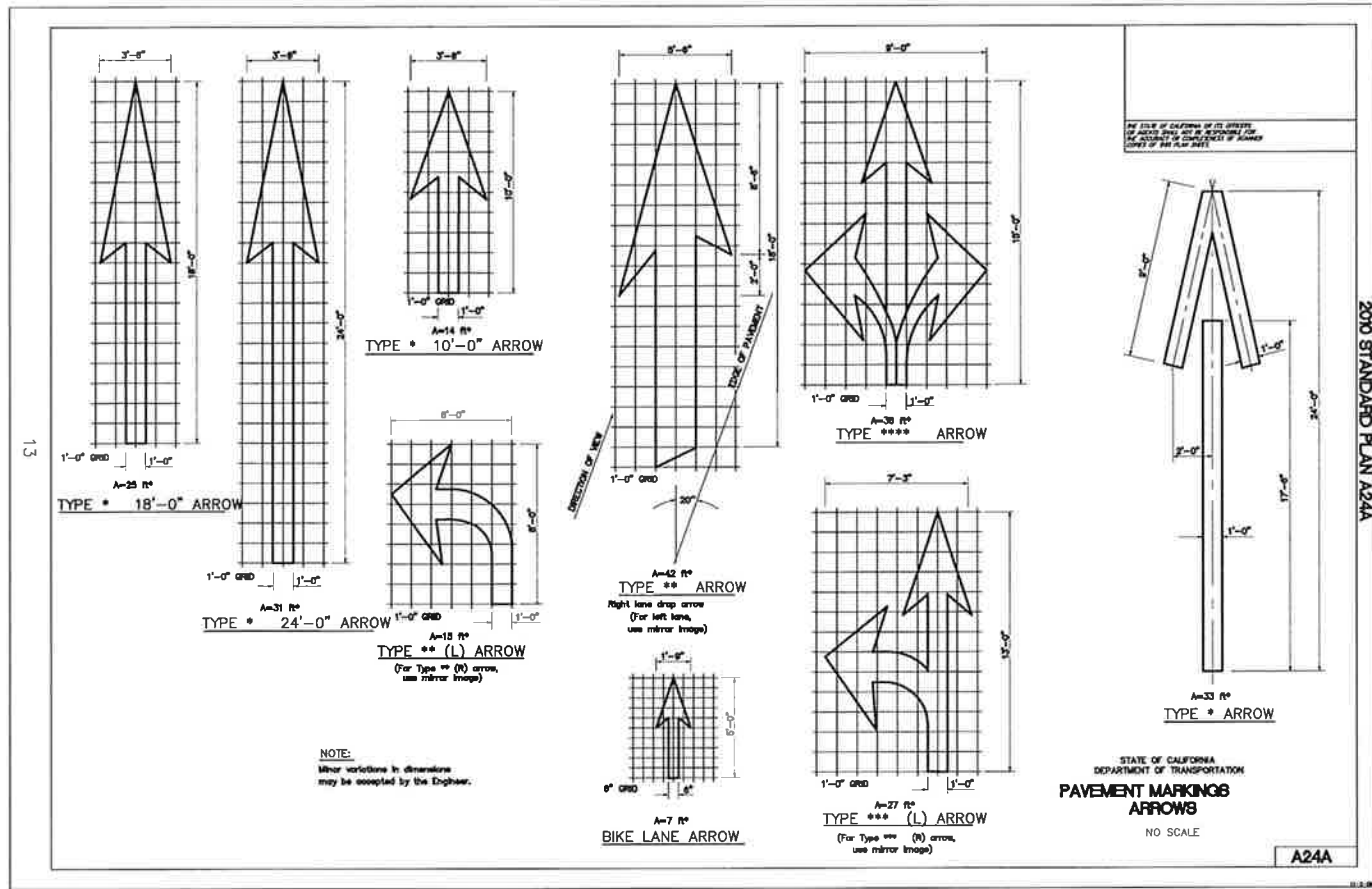


RICK
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SCALE: NO SCALE
 LOS OSOS WASTEWATER COLLECTION SYSTEM
 AREA C TRAFFIC CONTROL PLAN
 DETAIL SHEETS
 PAVEMENT MARKERS AND TRAFFIC LINES

PROJECT NO. 42502-83120
 FILE NAME: C-TC-03
 SHEET NO.
C-TC-003



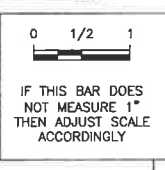
- NOTES:**
- If a message consists of more than one word, it should read "UP", i.e., the first word should be nearest the driver.
 - The space between words should be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
 - Minor variations in dimensions may be accepted by the Engineer.
 - Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.

ITEM	SP	ITEM	SP	ITEM	SP
STOP	21	YIELD	24	SCHOOL	5
AHEAD	21	SCHOOL	30	SCHOOL	23
LANE	19	SCHOOL	32	STOP	22
RIGHT	26	SCHOOL	34	STOP	18

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: RDH
 DRAWN BY: RDH
 CHECKED BY: DAD
 DATE: APRIL 2012

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 2285 Gateway Oaks Drive, Suite 240
 Sacramento, CA 95833
 Tel: (916) 567-9900

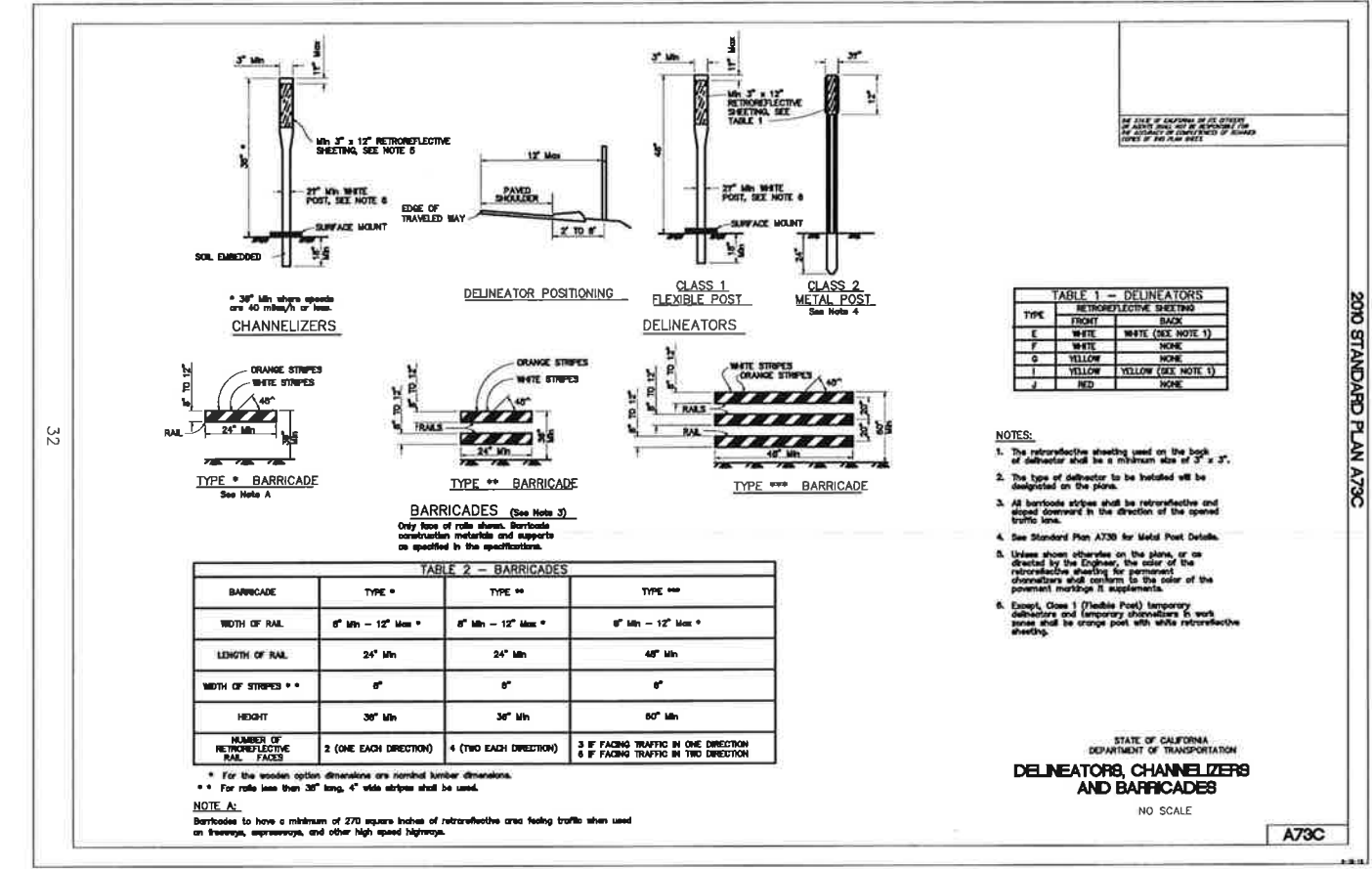
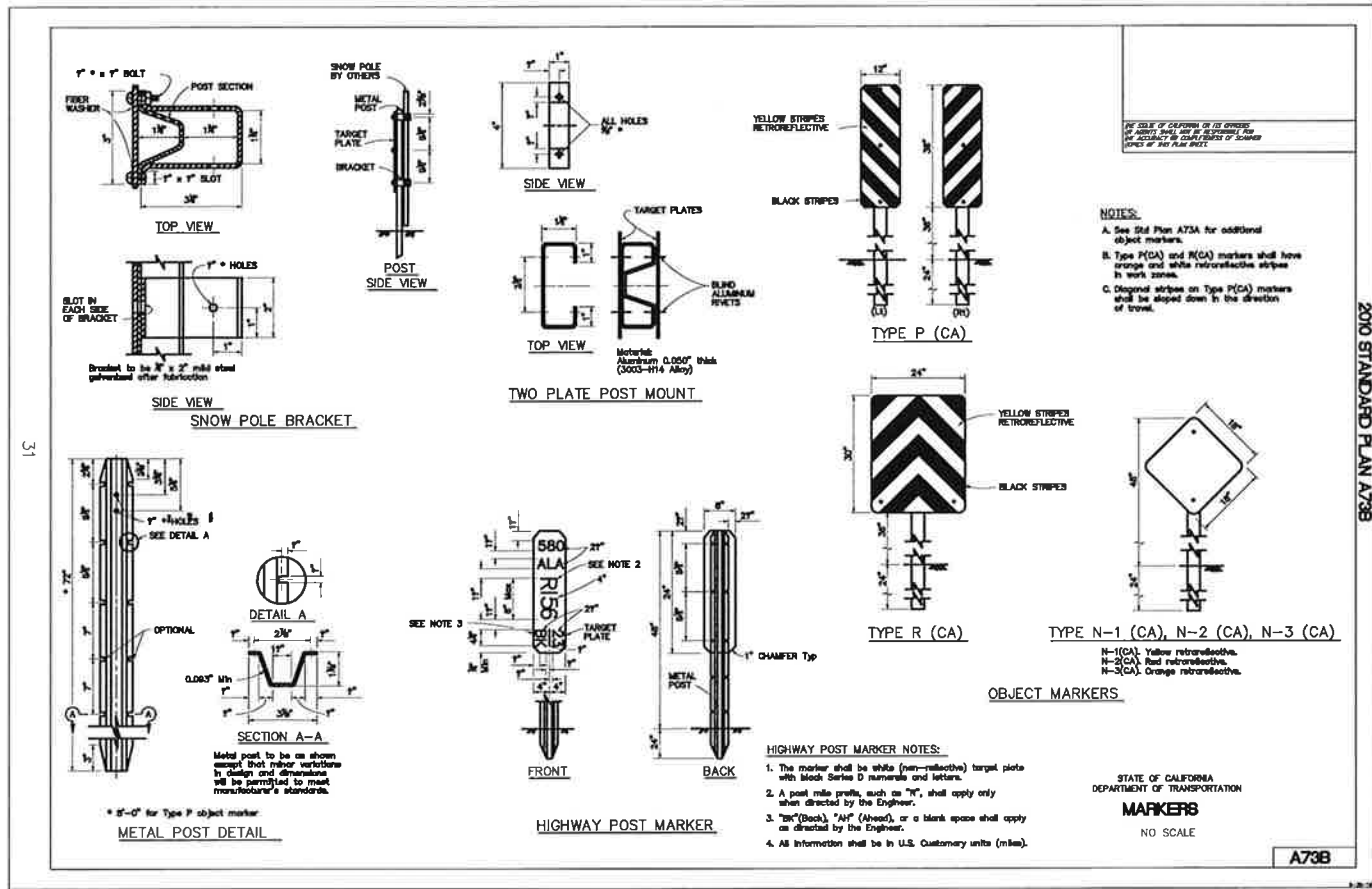


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 713 STATE ST. SUITE 118
 SAN LEWIS OBISPO, CA 93401
 (805) 435-7111
 FAX: (805) 435-7112

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 AT LEAST TWO DAYS
 BEFORE YOU DIG

LOS OSOS WASTEWATER COLLECTION SYSTEM
 AREA C TRAFFIC CONTROL PLAN
 DETAIL SHEETS
 PAVEMENT MARKINGS, ARROWS AND WORDS

SCALE: NO SCALE
 PROJECT NO. 42502-83120
 FILE NAME: C-TC-04
 SHEET NO.
C-TC-004



REV. NO.	DATE	DRWN	CHKD	REMARKS

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 DATE: APRIL 2012

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 Tel: (916) 567-9900

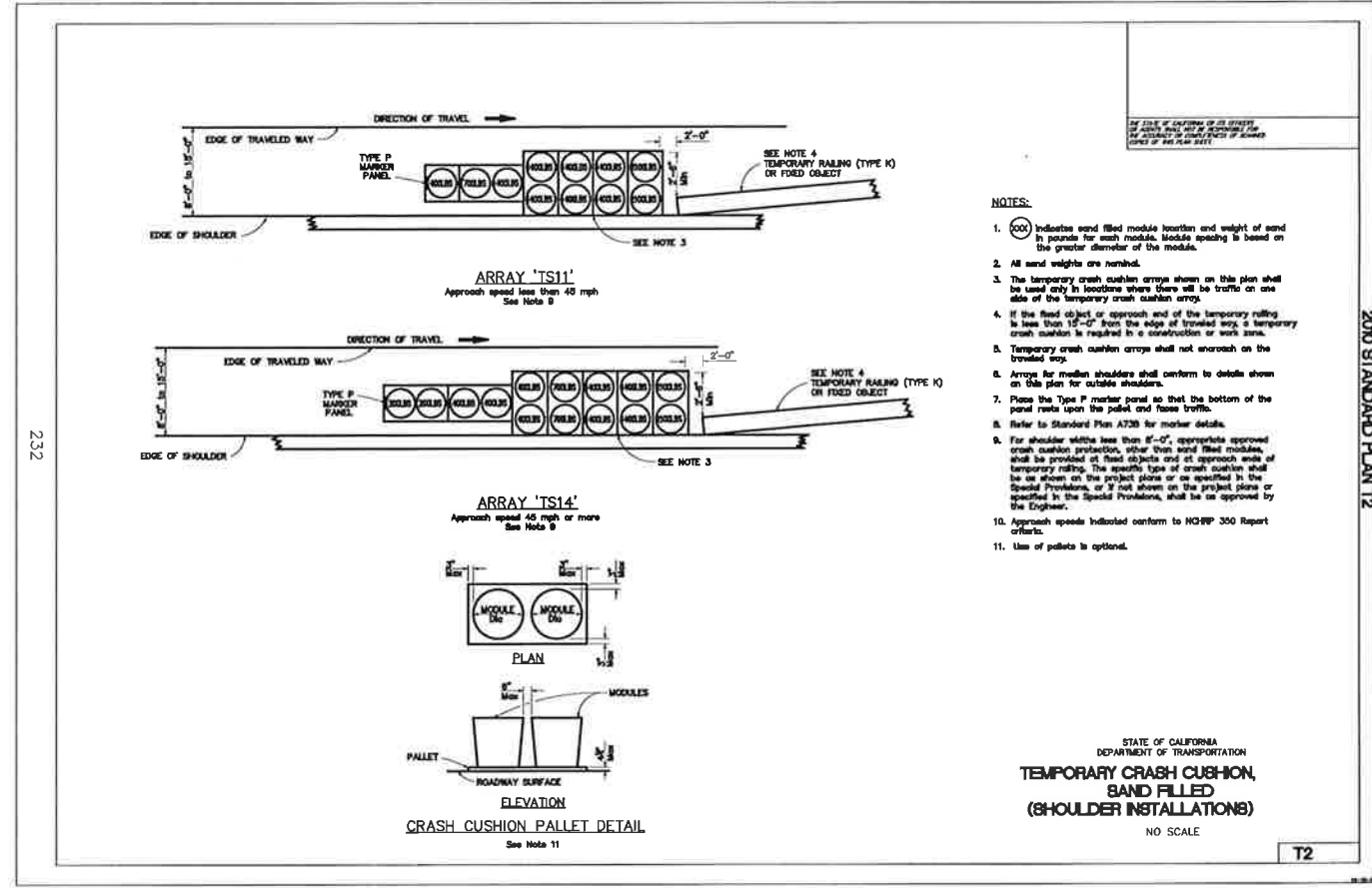
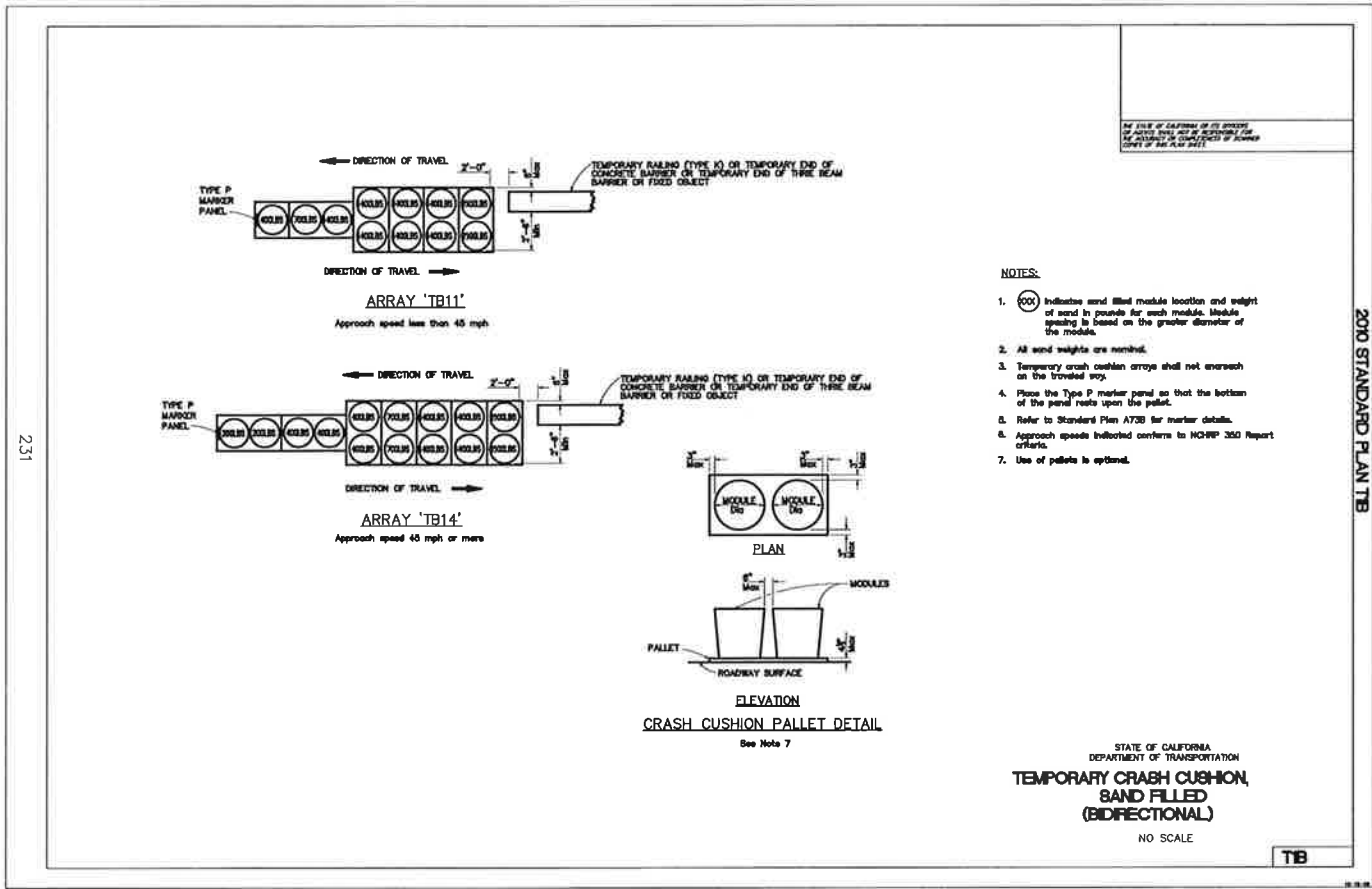
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 SAN LUIS OBISPO, CA 95401
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 FAX: 805.548.0702
 www.rickeng.com

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LOS OSOS WASTEWATER COLLECTION SYSTEM
 AREA C TRAFFIC CONTROL PLAN
 DETAIL SHEETS
 DELINEATORS, CHANNELIZERS AND BARRICADES

SCALE: NO SCALE
 PROJECT NO. 42502-83120
 FILE NAME: C-TC-05
 SHEET NO.
C-TC-005



REV. NO.	DATE	DRWN	CHKD	REMARKS

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 Sacramento, CA 95833
 Tel: (916) 567-8900



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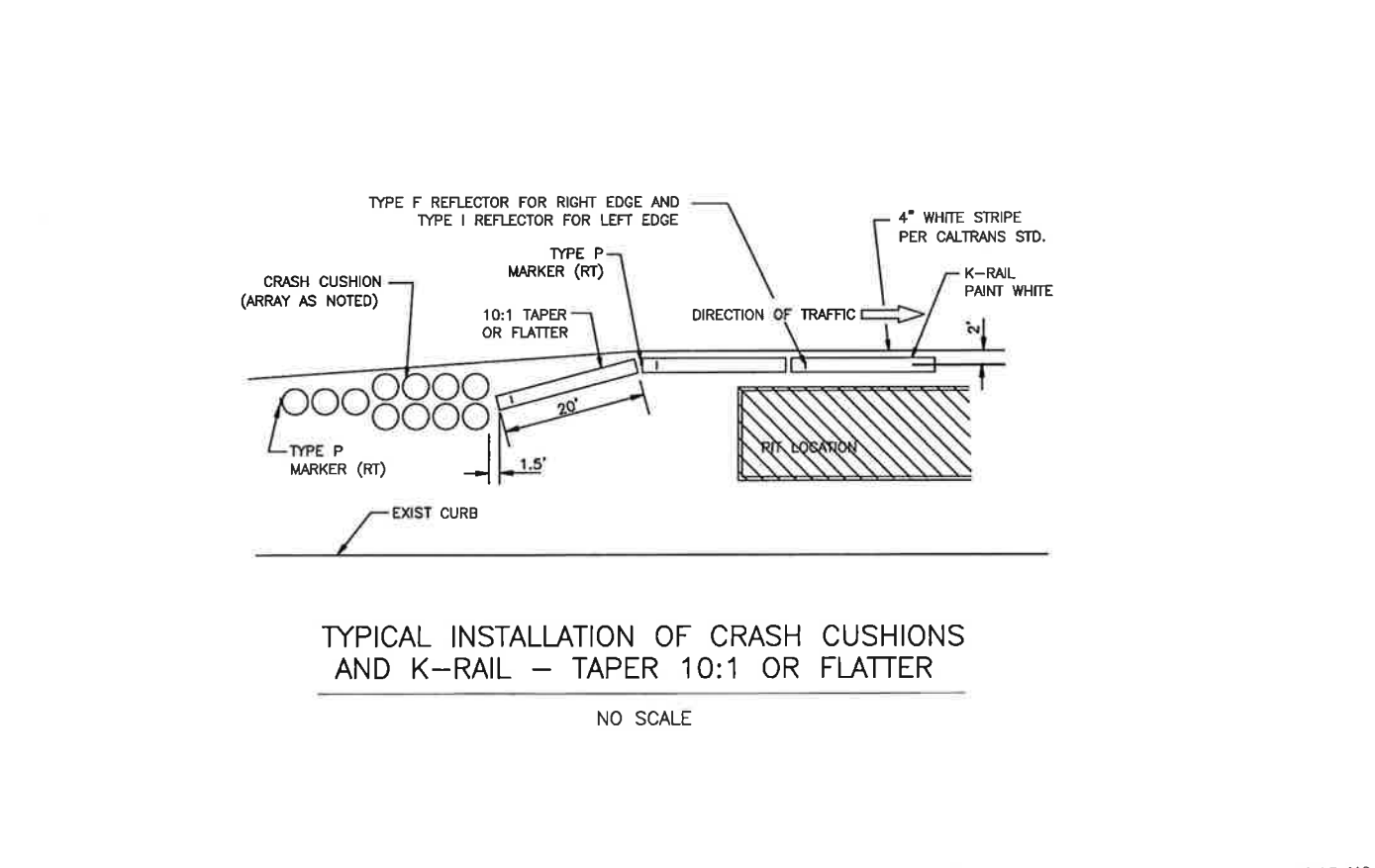
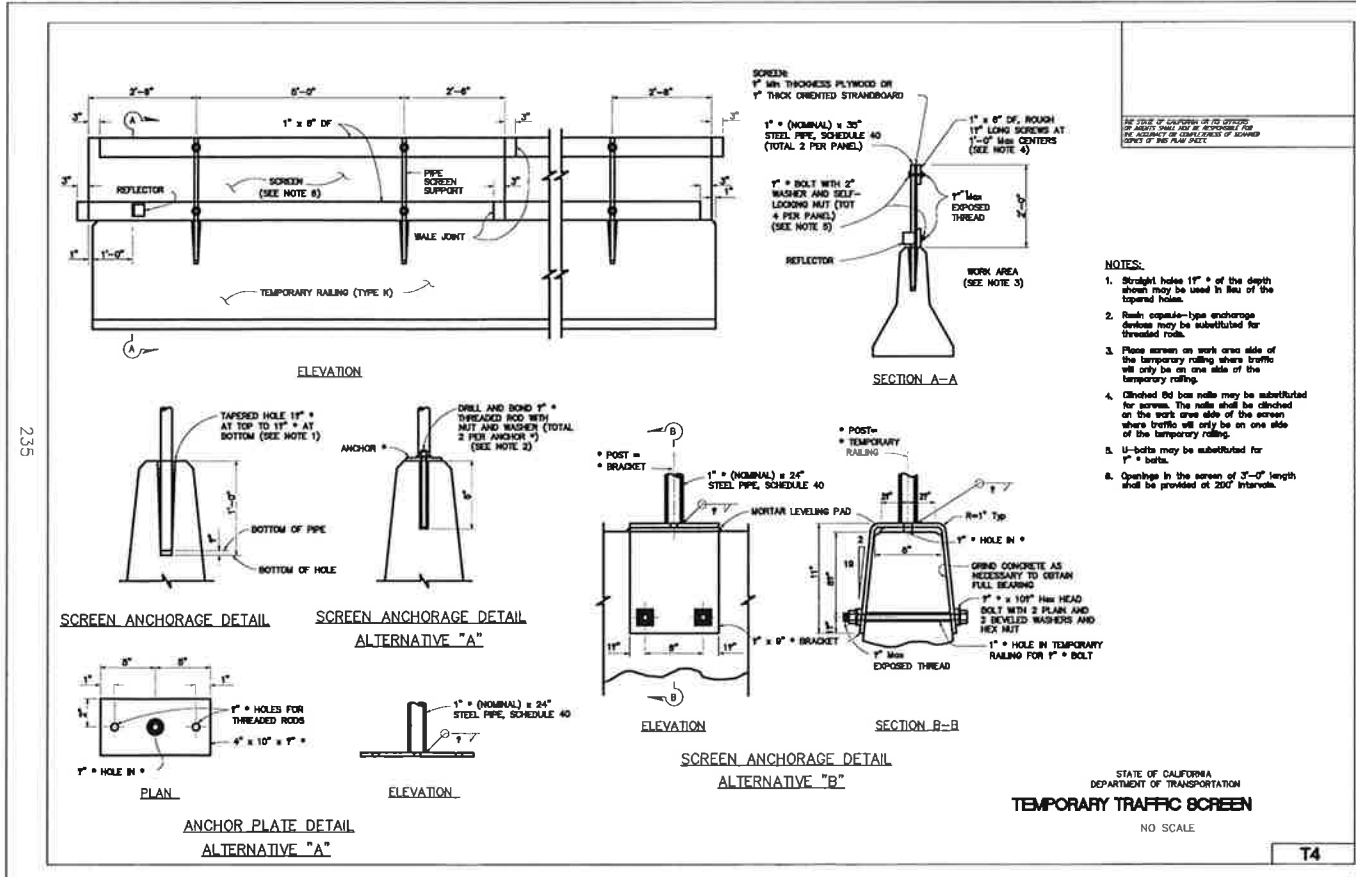
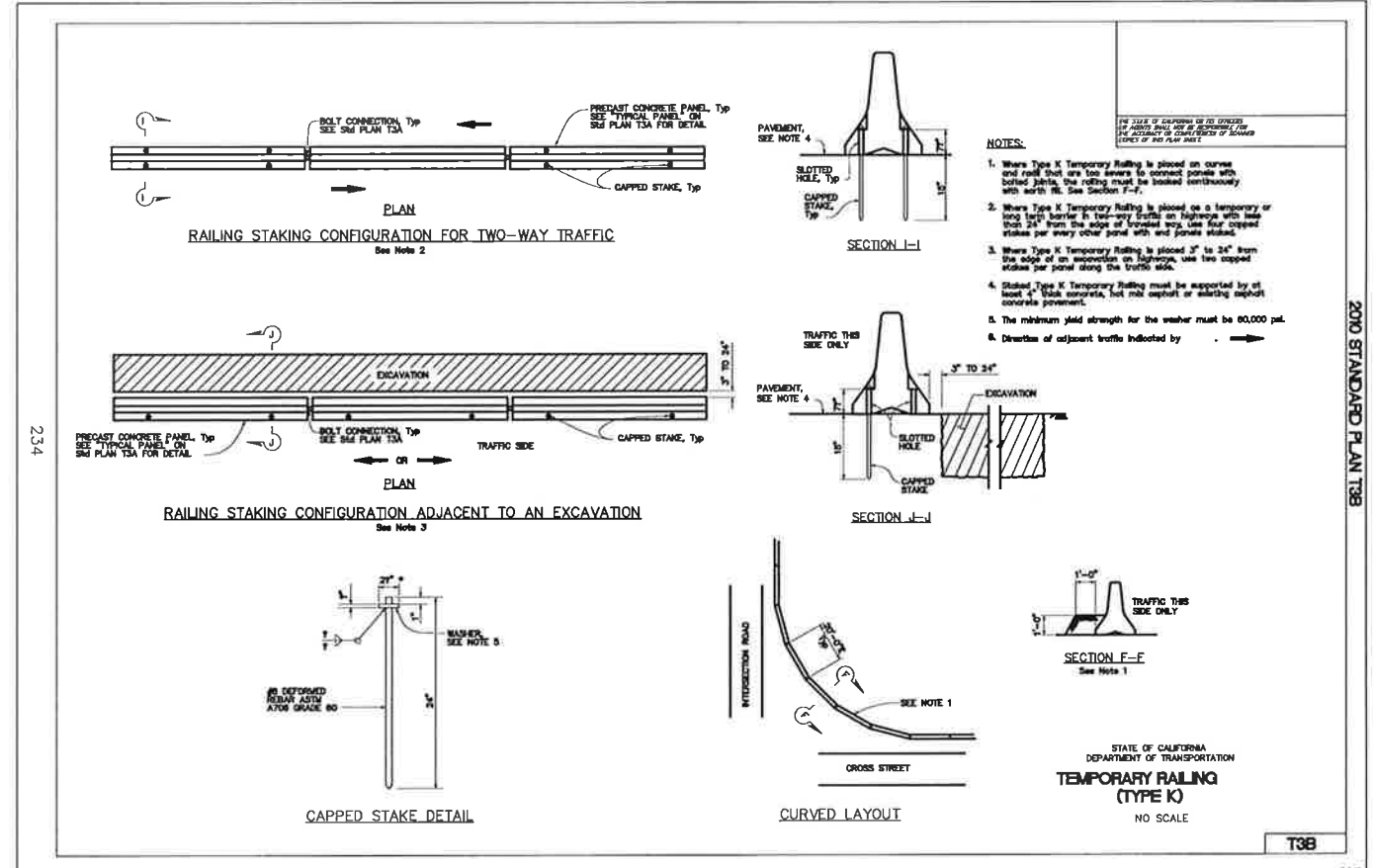
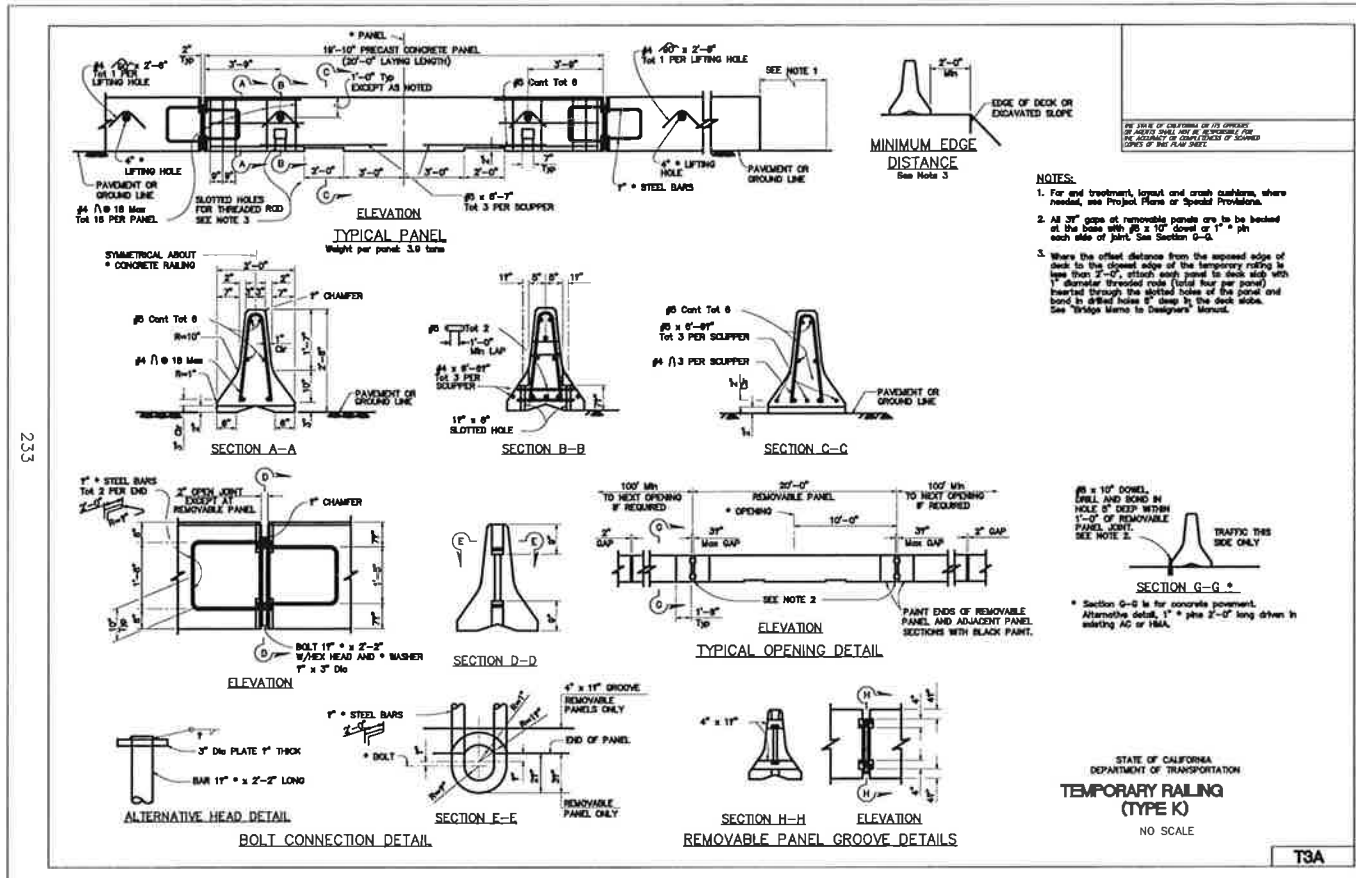


RICK
 ENGINEERING COMPANY
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LOS OSOS WASTEWATER COLLECTION SYSTEM
**AREA C TRAFFIC CONTROL PLAN
 DETAIL SHEETS
 CRASH CUSHIONS**

SCALE: NO SCALE
 PROJECT NO. 42502-B3120
 FILE NAME: C-TC-08
 SHEET NO.
C-TC-006



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: RDH
 DRAWN BY: RDH
 CHECKED BY: DAD
 DATE: APRIL 2012

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 Sacramento, CA 95833
 Tel: (916) 567-9900



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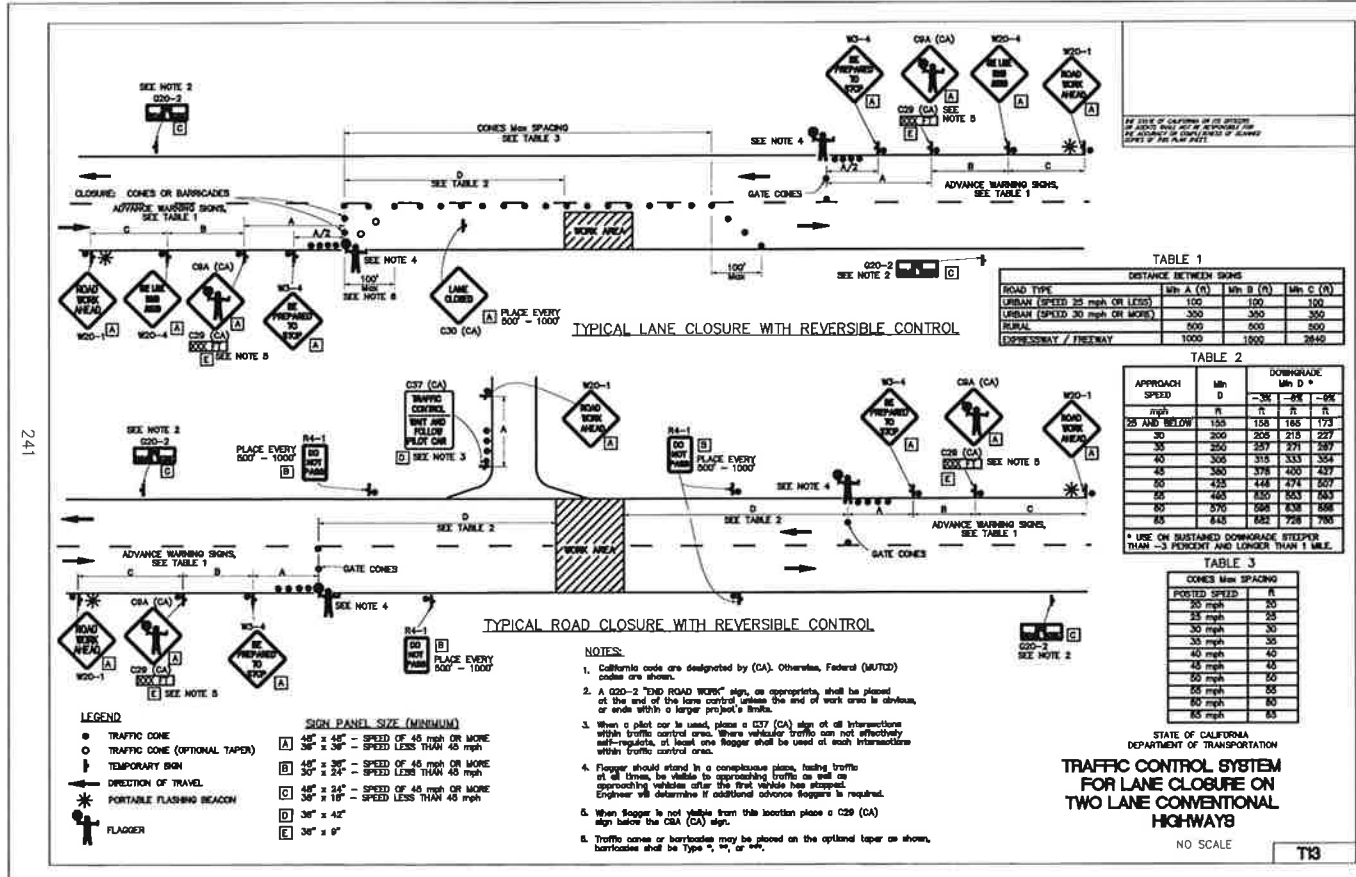
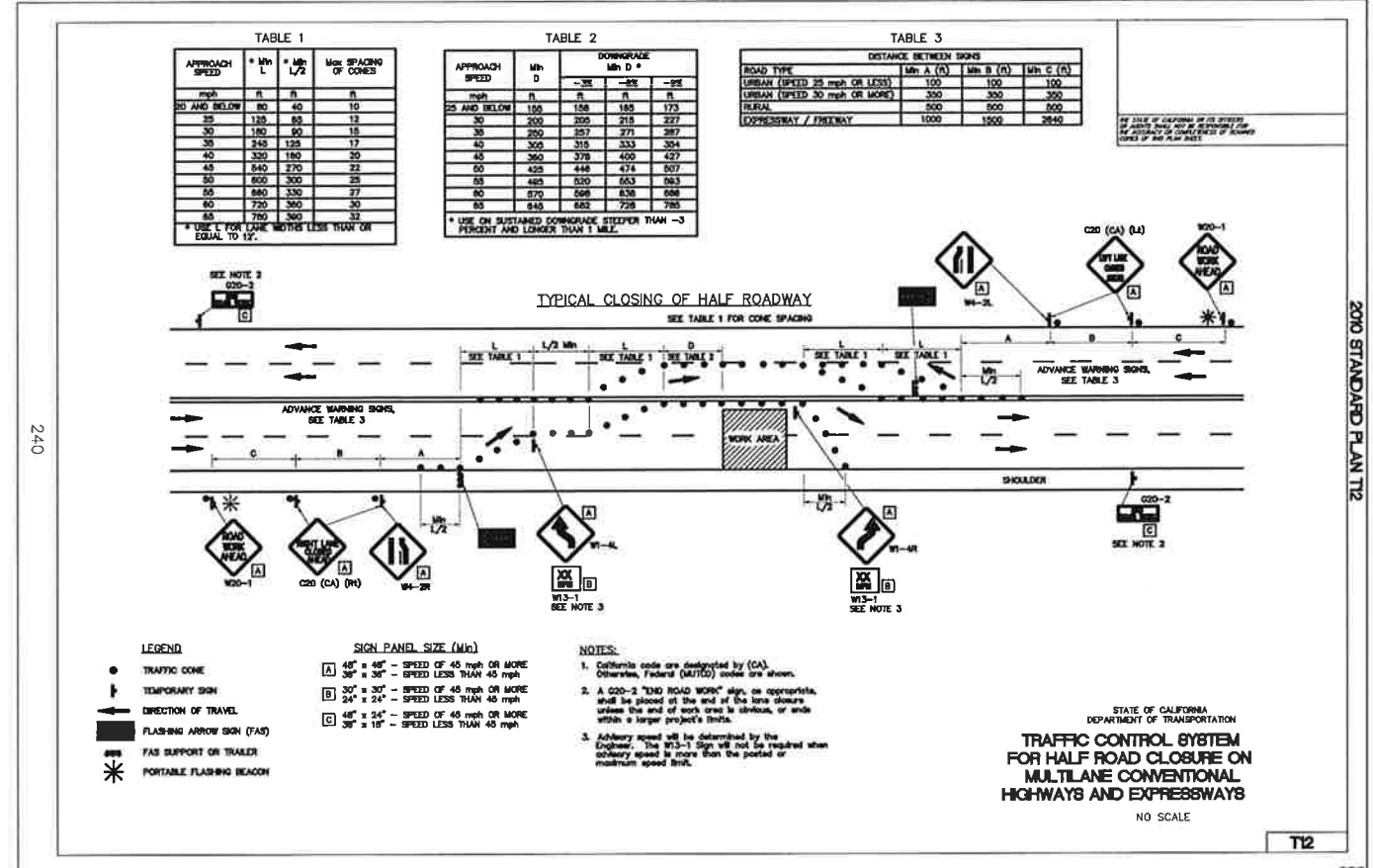
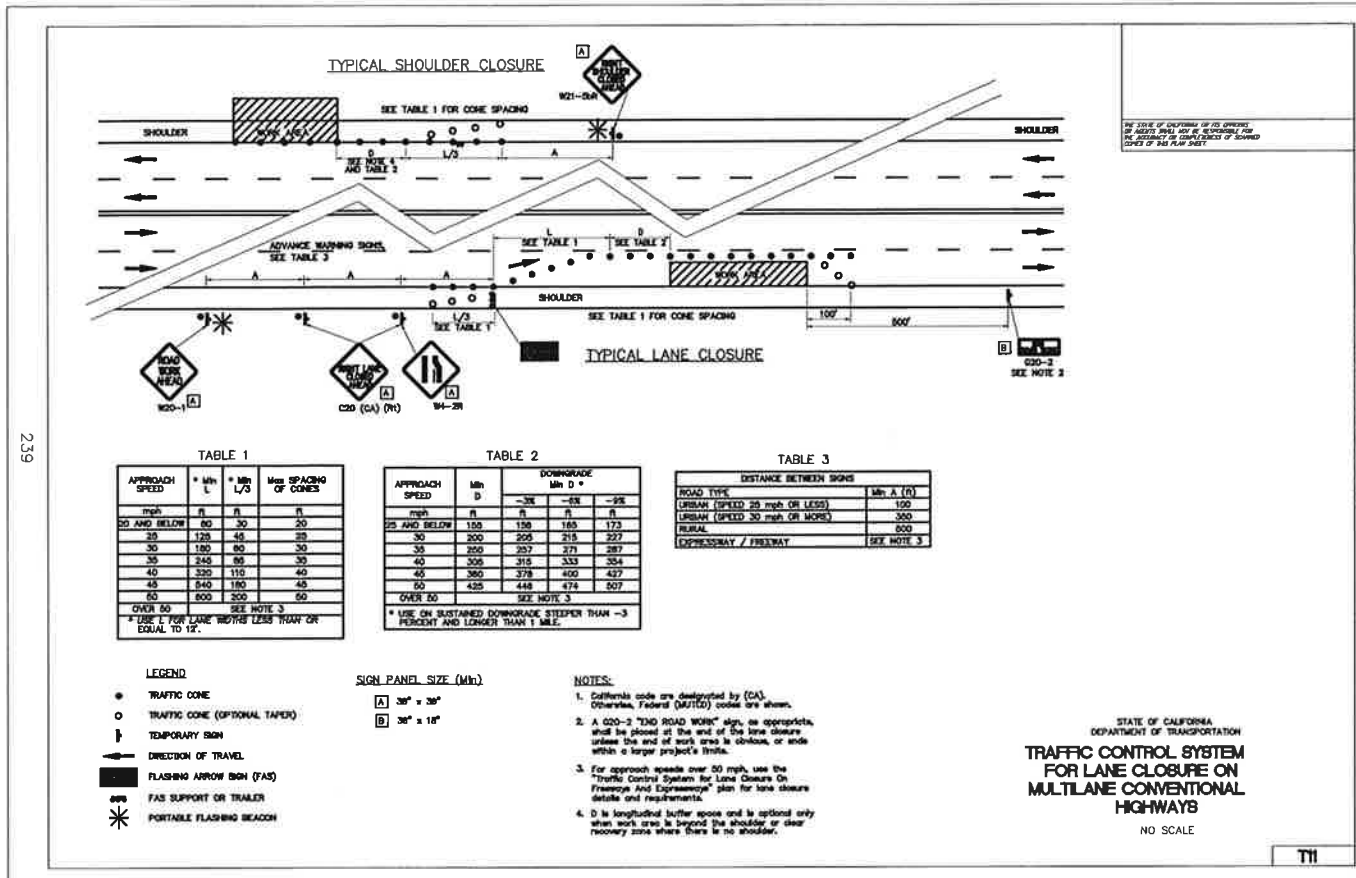


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 711 HAWK HAVEN BOULEVARD, SUITE 110
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 (805) 435-8888

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LOS OSOS WASTEWATER COLLECTION SYSTEM
 AREA C TRAFFIC CONTROL PLAN
 DETAIL SHEETS
 TEMPORARY RAILING (TYPE K)

SCALE: NO SCALE
 PROJECT NO. 42502-83120
 FILE NAME: C-TC-07
 SHEET NO.
C-TC-007



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: RDH
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DATE: APRIL 2012

CDM Smith
2295 Gateway Oaks Drive, Suite 240
Sacramento, CA 95833
Tel: (916) 567-9900



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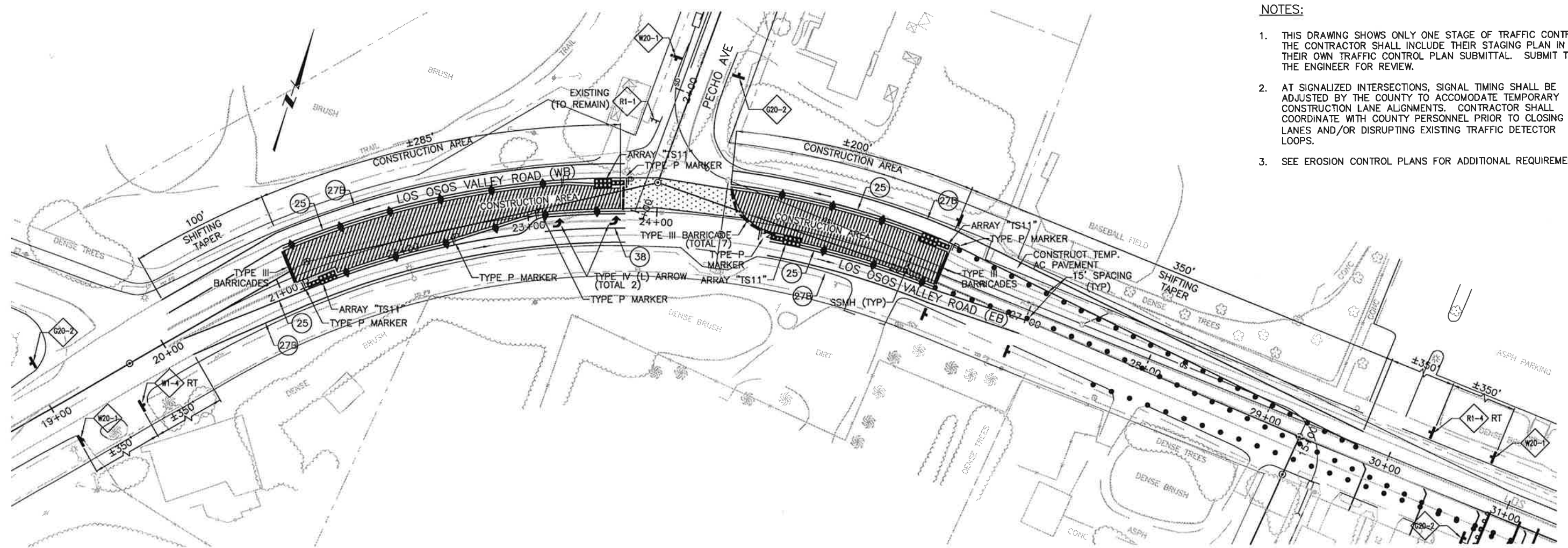


LOS OSOS WASTEWATER COLLECTION SYSTEM
AREA C TRAFFIC CONTROL PLAN
DETAIL SHEETS
CALTRANS TRAFFIC CONTROL PLANS

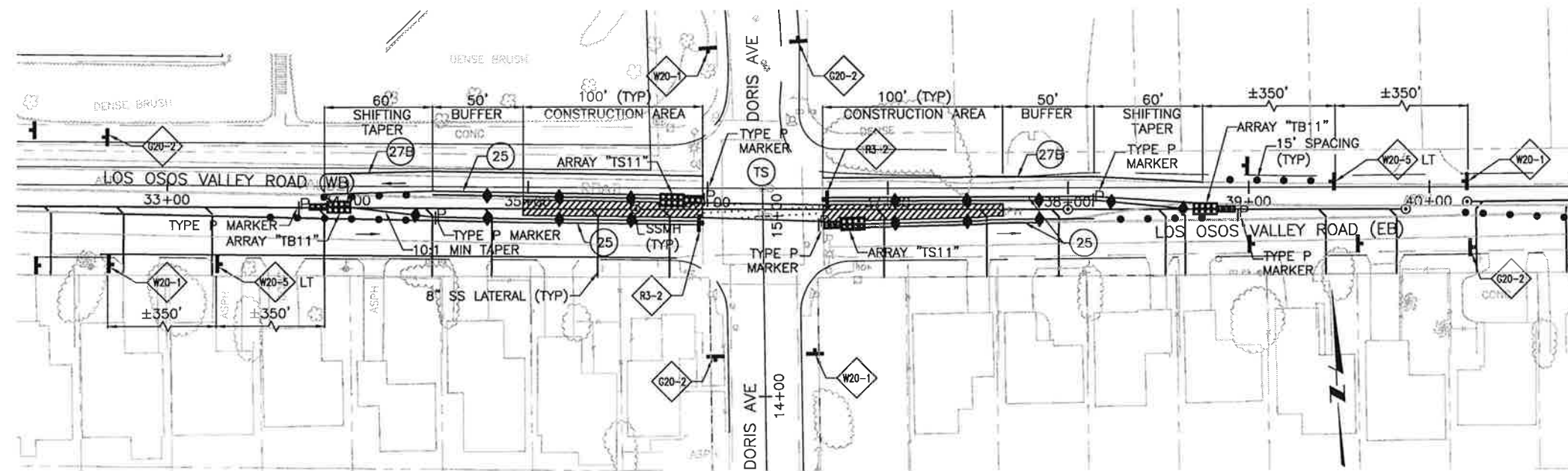
SCALE: NO SCALE
PROJECT NO. 42502-83120
FILE NAME: C-TC-008
SHEET NO.
C-TC-008

NOTES:

1. THIS DRAWING SHOWS ONLY ONE STAGE OF TRAFFIC CONTROL. THE CONTRACTOR SHALL INCLUDE THEIR STAGING PLAN IN THEIR OWN TRAFFIC CONTROL PLAN SUBMITTAL. SUBMIT TO THE ENGINEER FOR REVIEW.
2. AT SIGNALIZED INTERSECTIONS, SIGNAL TIMING SHALL BE ADJUSTED BY THE COUNTY TO ACCOMMODATE TEMPORARY CONSTRUCTION LANE ALIGNMENTS. CONTRACTOR SHALL COORDINATE WITH COUNTY PERSONNEL PRIOR TO CLOSING LANES AND/OR DISRUPTING EXISTING TRAFFIC DETECTOR LOOPS.
3. SEE EROSION CONTROL PLANS FOR ADDITIONAL REQUIREMENTS.



LOS OSOS VALLEY ROAD AND PECHO AVE INTERSECTION



LOS OSOS VALLEY ROAD AND DORIS AVE INTERSECTION

DORIS AVE SPECIAL NOTE:

1. CONTRACTOR SHALL PROVIDE DETOUR ROUTE WITH ALL REQUIRED SIGNING AND STRIPING FOR VEHICLES PROHIBITED FROM LEFT TURNS AT DORIS AVE.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: RDH
 DRAWN BY: RDH
 CHECKED BY: DAD
 DATE: APRIL 2012

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 2295 Gateway Oaks Drive, Suite 240
 Sacramento, CA 95833
 Tel: (916) 567-9900



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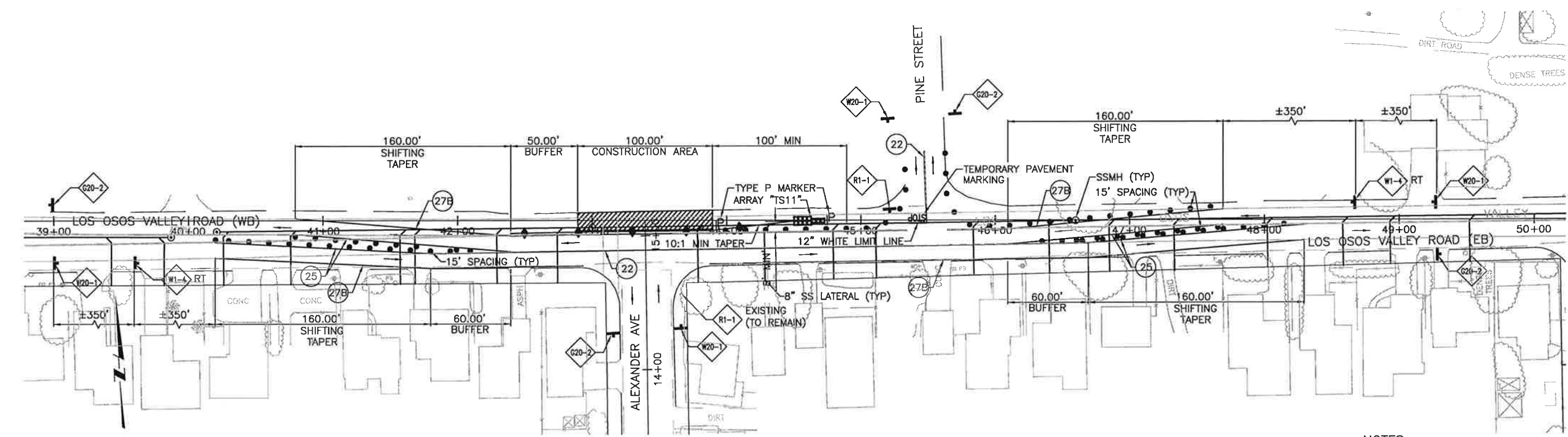


RICK G. GALT
 ENGINEERING COMPANY
 211 TANE PARK ROAD, SUITE 110
 SAN LUIS OBISPO, CA 95070
 800 544-4772

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LOS OSOS WASTEWATER COLLECTION SYSTEM
AREA C TRAFFIC CONTROL PLAN
 DETAILED PLAN AT PECHO AVE. AND
 DORIS AVE. INTERSECTIONS

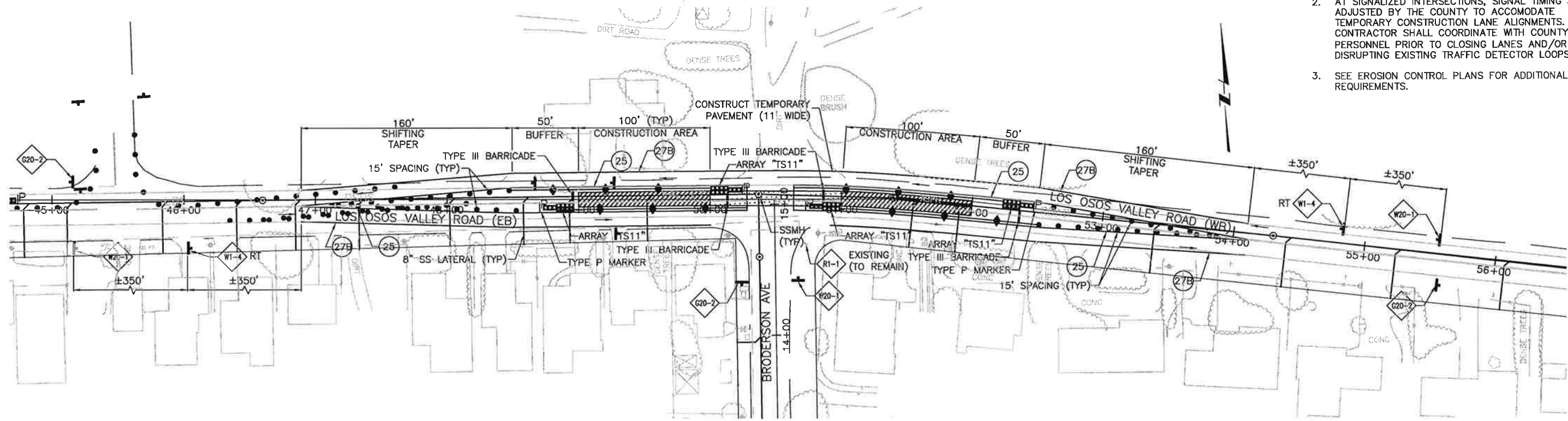
SCALE: 1" = 40'
 PROJECT NO. 42502-83120
 FILE NAME: C-TC-09
 SHEET NO.
C-TC-009



LOS OSOS VALLEY ROAD AND ALEXANDER AVE INTERSECTION

NOTES:

1. THIS DRAWING SHOWS ONLY ONE STAGE OF TRAFFIC CONTROL. THE CONTRACTOR SHALL INCLUDE THEIR STAGING PLAN IN THEIR OWN TRAFFIC CONTROL PLAN SUBMITTAL. SUBMIT TO THE ENGINEER FOR REVIEW.
2. AT SIGNALIZED INTERSECTIONS, SIGNAL TIMING SHALL BE ADJUSTED BY THE COUNTY TO ACCOMMODATE TEMPORARY CONSTRUCTION LANE ALIGNMENTS. CONTRACTOR SHALL COORDINATE WITH COUNTY PERSONNEL PRIOR TO CLOSING LANES AND/OR DISRUPTING EXISTING TRAFFIC DETECTOR LOOPS.
3. SEE EROSION CONTROL PLANS FOR ADDITIONAL REQUIREMENTS.



LOS OSOS VALLEY ROAD AND BRODERSON AVE INTERSECTION

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: RDH
 DRAWN BY: RDH
 CHECKED BY: DAD
 DATE: APRIL 2012

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 Tel: (916) 567-9900



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 711 TOWN PARK ROAD, SUITE 118
 SACRAMENTO, CA 95811
 916.544.0700
 FAX: 916.544.0701
 www.rickeng.com

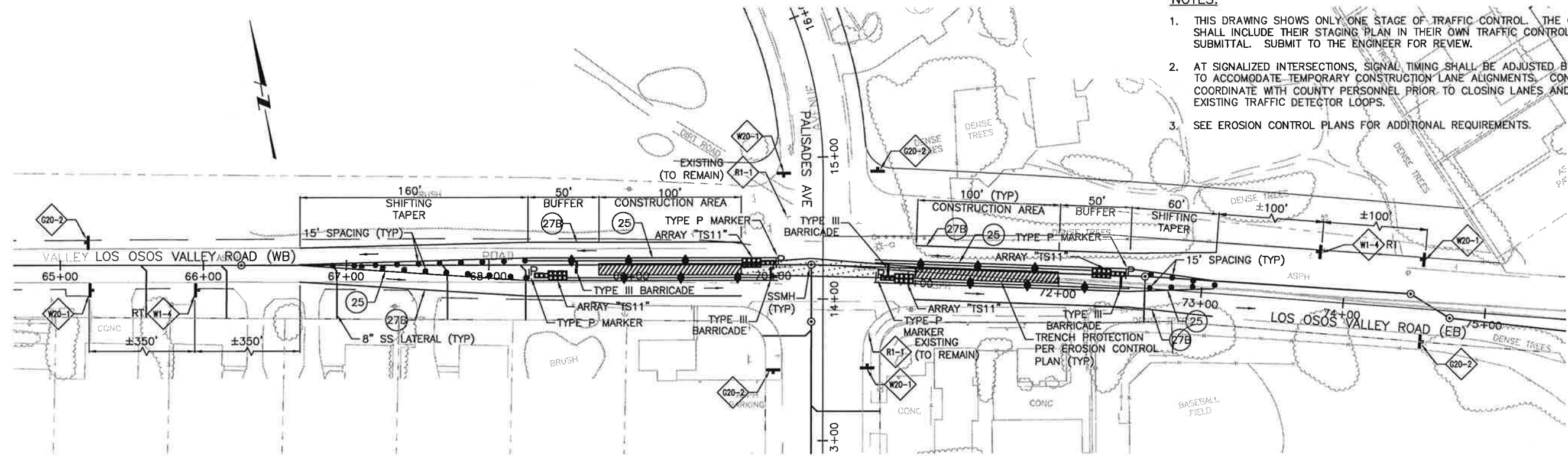
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LOS OSOS WASTEWATER COLLECTION SYSTEM
 AREA C TRAFFIC CONTROL PLAN
 DETAILED PLAN AT ALEXANDER AVE. AND
 BRODERSON AVE. INTERSECTIONS

SCALE: 1"=40'
 PROJECT NO. 42502-83120
 FILE NAME: C-TC-10
 SHEET NO.
C-TC-010

NOTES:

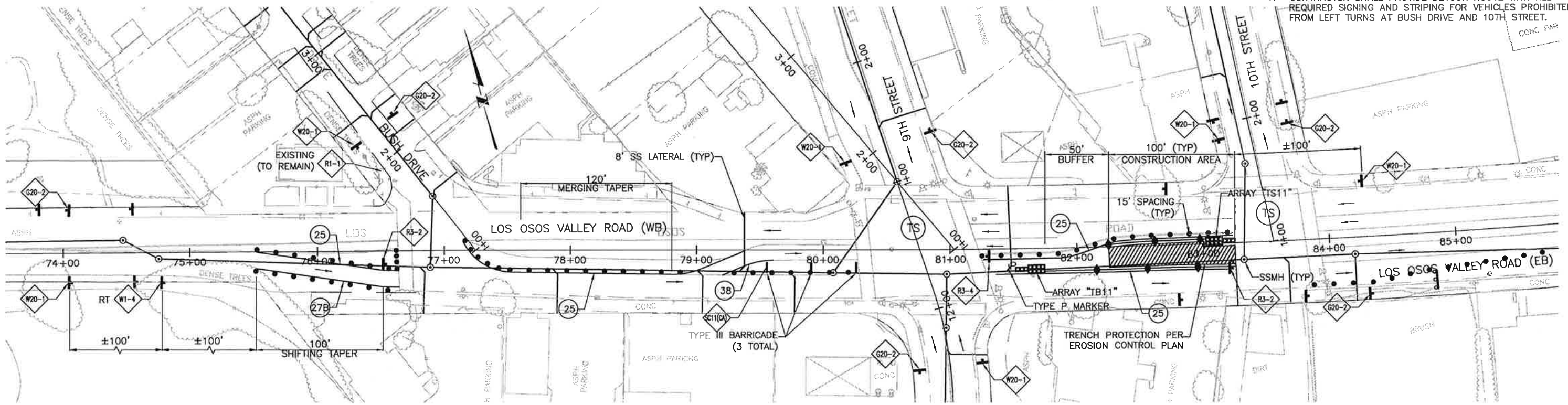
1. THIS DRAWING SHOWS ONLY ONE STAGE OF TRAFFIC CONTROL. THE CONTRACTOR SHALL INCLUDE THEIR STAGING PLAN IN THEIR OWN TRAFFIC CONTROL PLAN SUBMITTAL. SUBMIT TO THE ENGINEER FOR REVIEW.
2. AT SIGNALIZED INTERSECTIONS, SIGNAL TIMING SHALL BE ADJUSTED BY THE COUNTY TO ACCOMMODATE TEMPORARY CONSTRUCTION LANE ALIGNMENTS. CONTRACTOR SHALL COORDINATE WITH COUNTY PERSONNEL PRIOR TO CLOSING LANES AND/OR DISRUPTING EXISTING TRAFFIC DETECTOR LOOPS.
3. SEE EROSION CONTROL PLANS FOR ADDITIONAL REQUIREMENTS.



LOS OSOS VALLEY ROAD AND PALISADES AVE INTERSECTION

9TH & 10TH STREET SPECIAL NOTES:

1. CONTRACTOR SHALL PROVIDE DETOUR ROUTE WITH ALL REQUIRED SIGNING AND STRIPING FOR VEHICLES PROHIBITED FROM LEFT TURNS AT BUSH DRIVE AND 10TH STREET.



LOS OSOS VALLEY ROAD AND 9TH & 10TH STREET INTERSECTIONS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: RDH
 DRAWN BY: RDH
 CHECKED BY: DAD
 DATE: APRIL 2012

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 2295 Gateway Oaks Drive, Suite 240
 Sacramento, CA 95833
 Tel: (916) 567-9800



0 1/2 1
 IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY

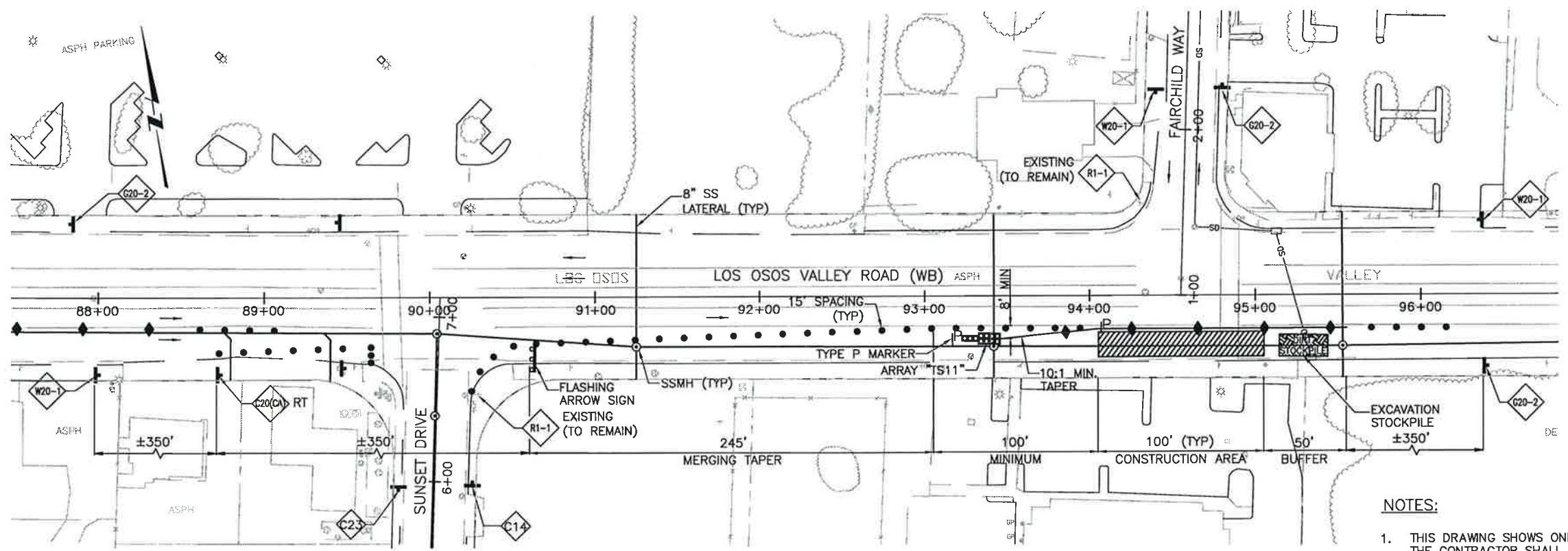


RICK
 ENGINEERING COMPANY
 711 HUNTER ROAD SUITE 110
 SAN LEONARDO, CA 91761
 (951) 344-2000

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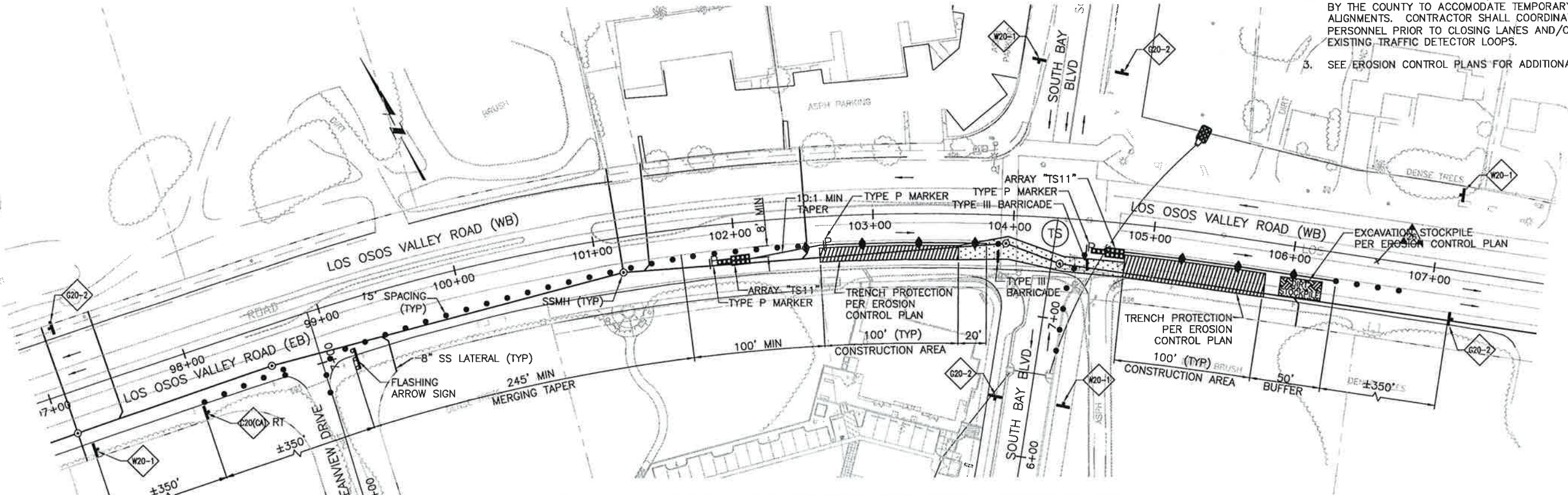
LOS OSOS WASTEWATER COLLECTION SYSTEM
AREA C TRAFFIC CONTROL PLAN
 DETAILED PLAN AT PALISADES AVE. AND
 9TH & 10TH STREET INTERSECTIONS

SCALE: 1"=40'
 PROJECT NO. 42502-83120
 FILE NAME: C-TC-11
 SHEET NO.
C-TC-011



LOS OSOS VALLEY ROAD AND FAIRCHILD AVE INTERSECTION

- NOTES:**
1. THIS DRAWING SHOWS ONLY ONE STAGE OF TRAFFIC CONTROL. THE CONTRACTOR SHALL INCLUDE THEIR STAGING PLAN IN THEIR OWN TRAFFIC CONTROL PLAN SUBMITTAL. SUBMIT TO THE ENGINEER FOR REVIEW.
 2. AT SIGNALIZED INTERSECTIONS, SIGNAL TIMING SHALL BE ADJUSTED BY THE COUNTY TO ACCOMMODATE TEMPORARY CONSTRUCTION LANE ALIGNMENTS. CONTRACTOR SHALL COORDINATE WITH COUNTY PERSONNEL PRIOR TO CLOSING LANES AND/OR DISRUPTING EXISTING TRAFFIC DETECTOR LOOPS.
 3. SEE EROSION CONTROL PLANS FOR ADDITIONAL REQUIREMENTS.



LOS OSOS VALLEY ROAD AND SOUTH BAY BLVD INTERSECTION

SCALE: 1"=40'

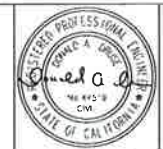
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: RDH
 DRAWN BY: RDH
 CHECKED BY: DAD
 DATE: APRIL 2012

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 Tel. (916) 567-9900



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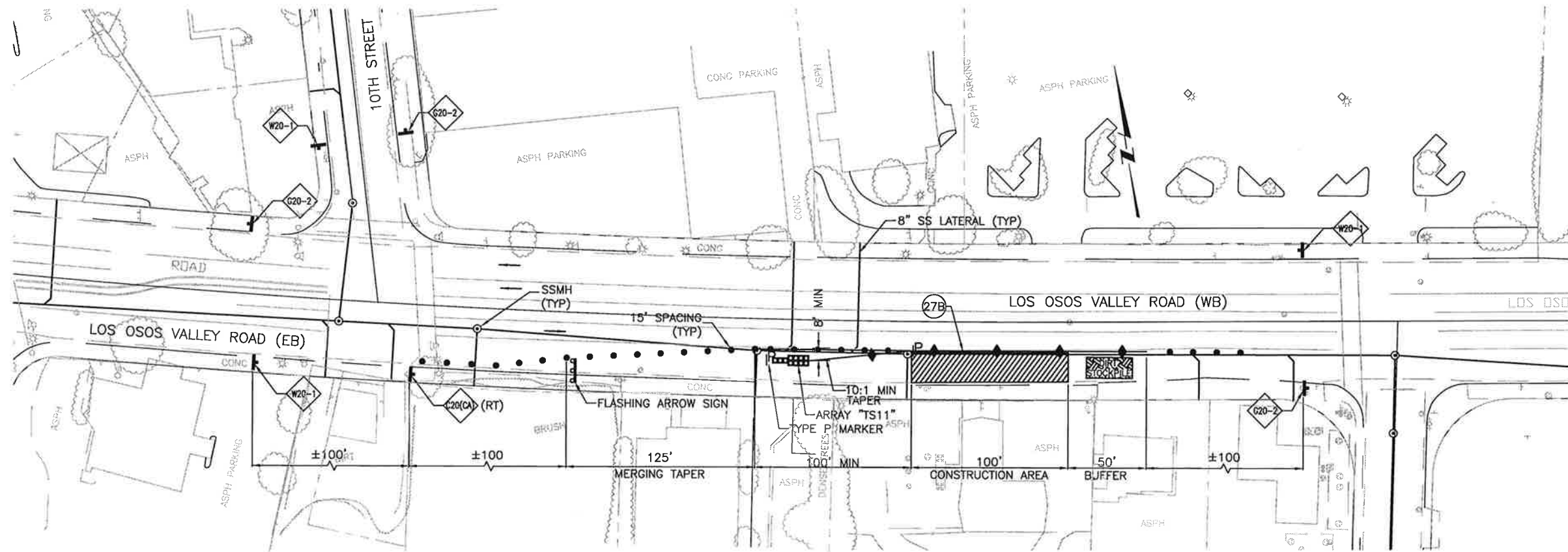


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LOS OSOS WASTEWATER COLLECTION SYSTEM
 AREA C TRAFFIC CONTROL PLAN
 DETAILED PLAN AT FAIRCHILD AVE. AND
 SOUTH BAY BLVD. INTERSECTIONS

PROJECT NO. 42502-83120
 FILE NAME: C-TC-12
 SHEET NO.
C-TC-012



LOS OSOS VALLEY ROAD - TYPICAL MID-BLOCK CONSTRUCTION

NOTES:

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3. SEE EROSION CONTROL PLANS FOR ADDITIONAL REQUIREMENTS.

SCALE: 1"=40'

REV. NO.	DATE	DRWN	CHKD	REMARKS

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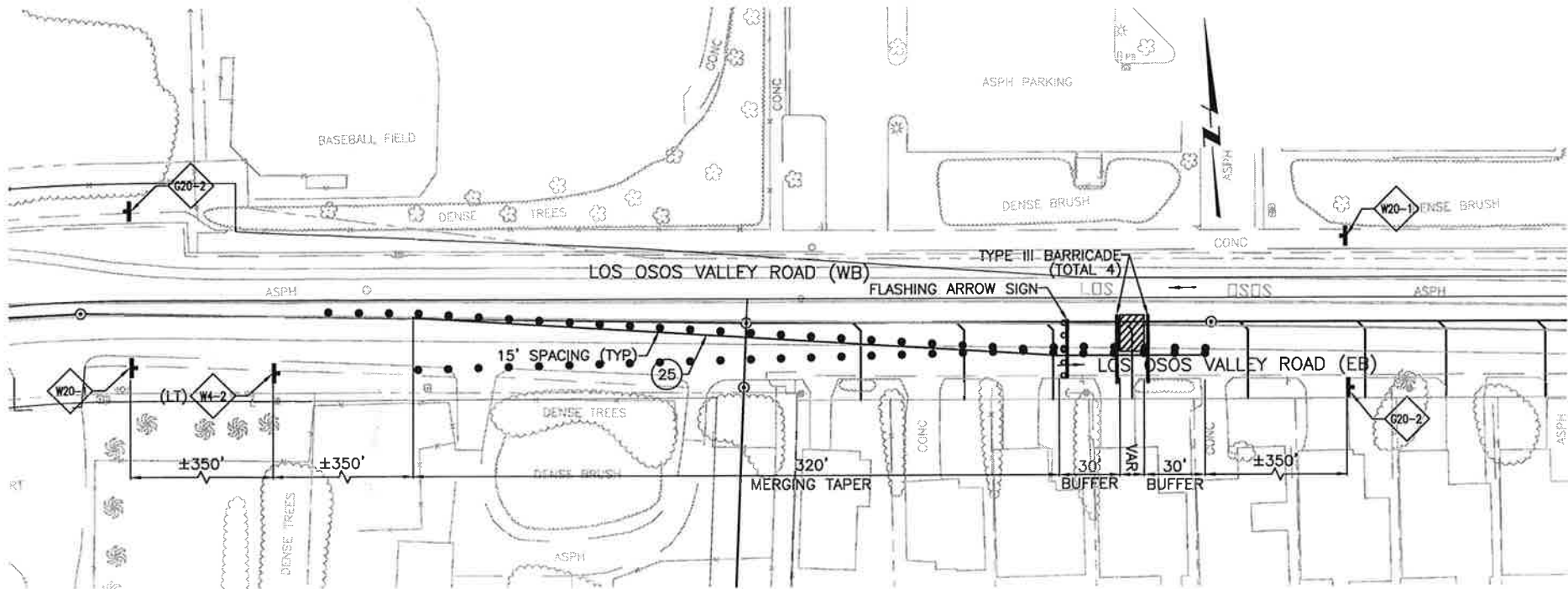
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LOS OSOS WASTEWATER COLLECTION SYSTEM
 AREA C TRAFFIC CONTROL PLAN
 LOS OSOS VALLEY ROAD
 TYPICAL MID-BLOCK CONSTRUCTION

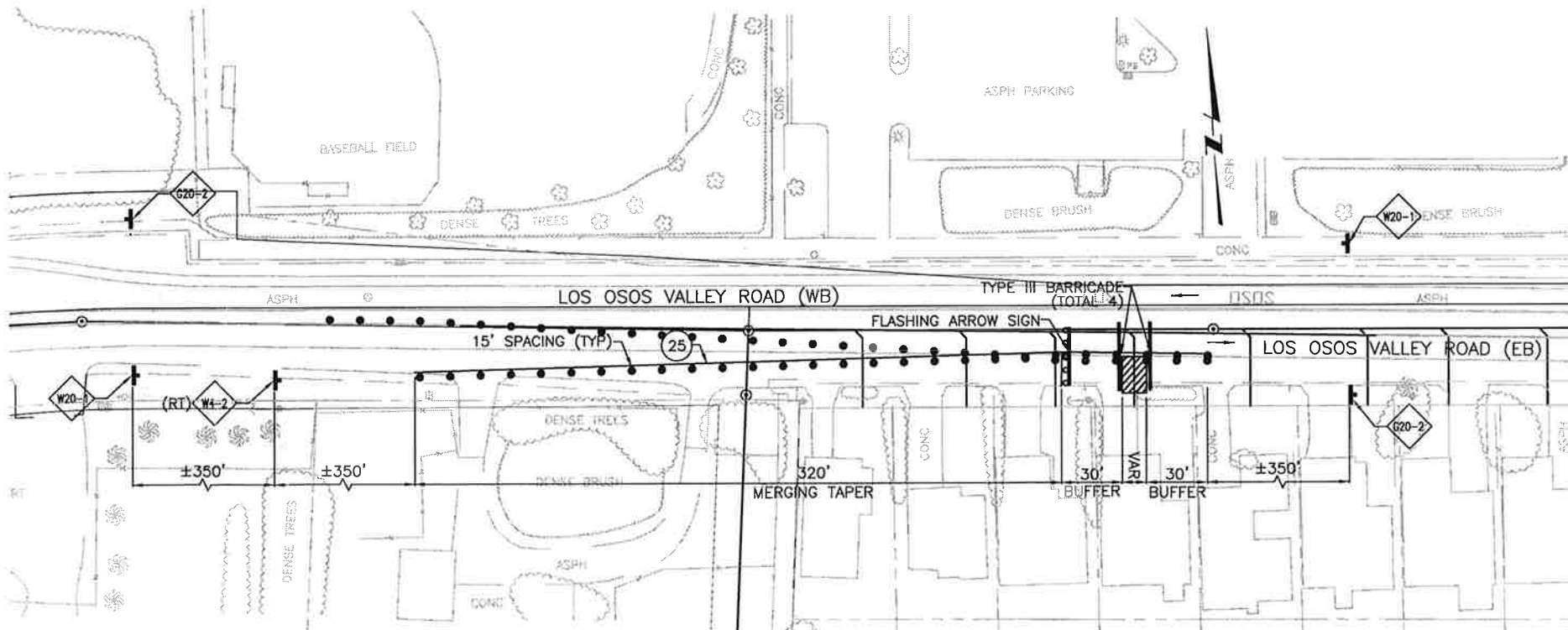
PROJECT NO. 42502-B3120
 FILE NAME: C-TC-13
 SHEET NO.
C-TC-013

NOTES:

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3. SEE EROSION CONTROL PLANS FOR ADDITIONAL REQUIREMENTS.



LOS OSOS VALLEY ROAD – TYPICAL SS LATERAL CONSTRUCTION (STAGE 1)



LOS OSOS VALLEY ROAD – TYPICAL SS LATERAL CONSTRUCTION (STAGE 2)

REV. NO.	DATE	DRWN	CHKD	REMARKS

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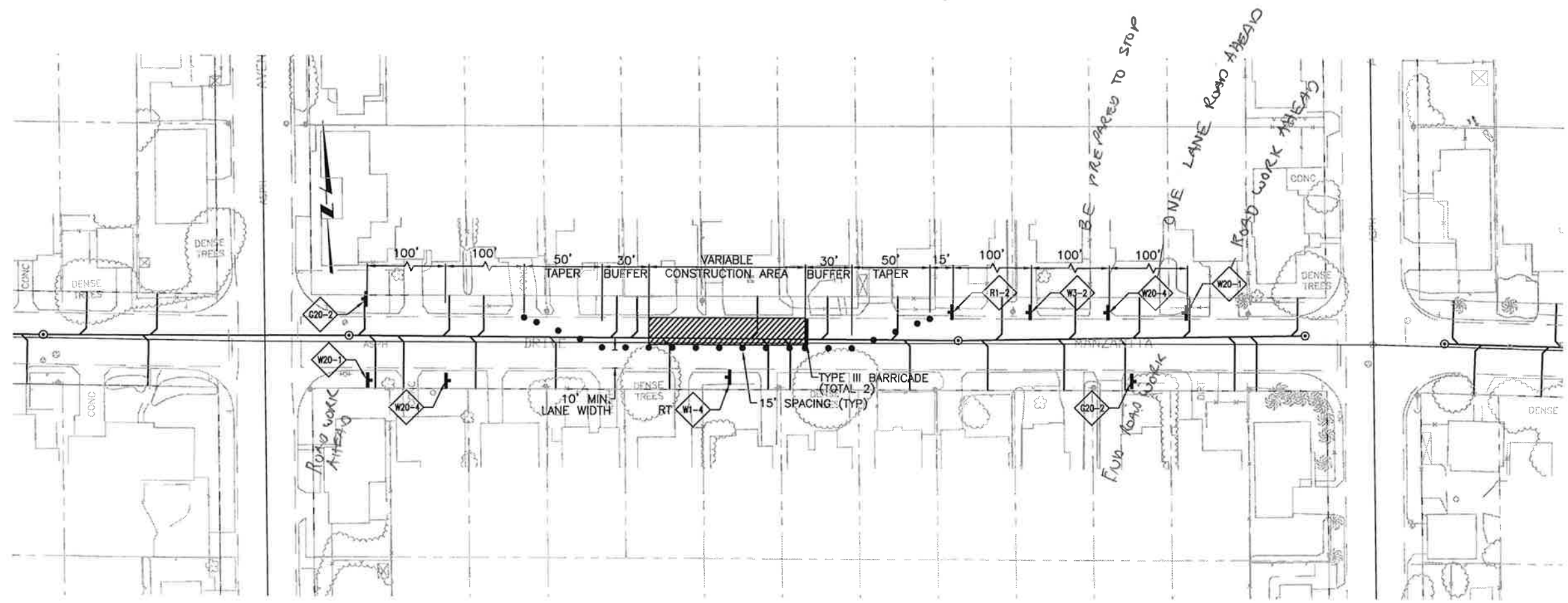


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LOS OSOS WASTEWATER COLLECTION SYSTEM
 AREA C TRAFFIC CONTROL PLAN
 LOS OSOS VALLEY ROAD
 TYPICAL LATERAL CONSTRUCTION

SCALE: 1"=40'
 PROJECT NO. 42502-83120
 FILE NAME: C-TC-14
 SHEET NO.
C-TC-014



MINOR STREET – TYPICAL MID-BLOCK SINGLE LANE CLOSURE

NOTES:

1. THIS DRAWING SHOWS ONLY ONE STAGE OF TRAFFIC CONTROL. THE CONTRACTOR SHALL INCLUDE THEIR STAGING PLAN IN THEIR OWN TRAFFIC CONTROL PLAN SUBMITTAL. SUBMIT TO THE ENGINEER FOR REVIEW AND ACCEPTANCE.
2. FOR ALL SINGLE LANE CLOSURES ON MINOR STREETS, THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF FIGURE 6H-11 OF THE MUTCD, (2010 CALIFORNIA EDITION), UNLESS FOLLOWING ANY NOTES 3, 4, OR 5 BELOW.
3. IF APPROVED BY THE COUNTY ENGINEER, ON MINOR STREETS WITH VERY LOW TRAFFIC VOLUMES THE CONTRACTOR MAY USE THE TRAFFIC CONTROL MEASURES FOR A SINGLE LANE CLOSURE AS SHOWN IN FIGURE 6H-18 OF THE MUTCD (2010 CALIFORNIA EDITION)
4. AT THE OPTION OF THE CONTRACTOR, ONE-LANE TRAFFIC CONTROL WITH FLAGGERS MAY BE USED IN LIEU OF THIS TRAFFIC CONTROL LAYOUT. FOR TRAFFIC CONTROL WITH FLAGGERS, CONTRACTOR SHALL FOLLOW FIGURE 6H-10(CA) OF THE MUTCD (2010 CALIFORNIA EDITION)
5. WHEN MINOR STREET ROAD CLOSURES ARE ALLOWED, THE CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF THE MUTCD (2010 CALIFORNIA EDITION) FOR DETOUR SIGNAGE, INCLUDING 48-HOUR DOORKNOB NOTICING TO AFFECTED RESIDENTS. SUBMIT DETOUR PLANS TO THE ENGINEER FOR REVIEW AND ACCEPTANCE.
6. 10' MINIMUM LANE WIDTH SHALL BE MAINTAINED AT ALL TIMES ON MINOR STREETS WHEN OPEN TO PUBLIC TRAFFIC. LANE WIDTH IS MEASURED FROM THE NEAR EDGE OF CHANNELIZING DEVICES TO THE EDGE OF PAVEMENT OR CURB/AC BERM FLOWLINE.

REV. NO.	DATE	DRWN	CHKD	REMARKS

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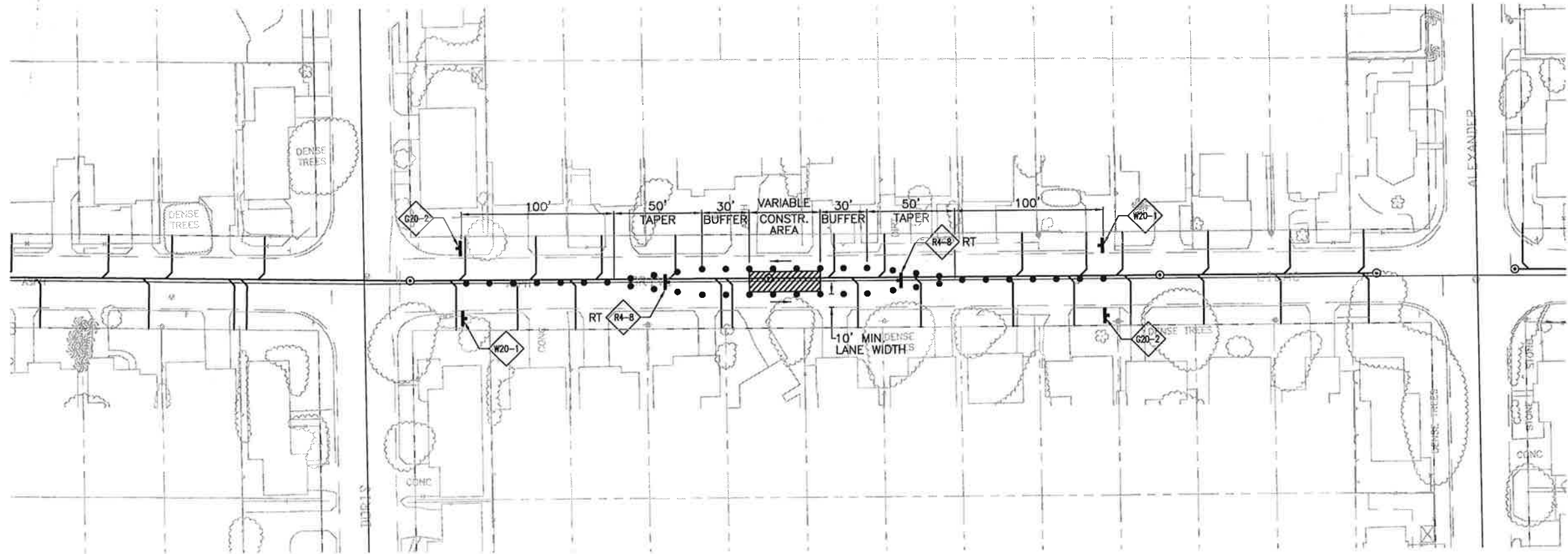
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LOS OSOS WASTEWATER COLLECTION SYSTEM
 AREA C TRAFFIC CONTROL PLAN
 TYPICAL MINOR STREET
 MID-BLOCK CONSTRUCTION

SCALE: 1"=40'
 PROJECT NO. 42502-83120
 FILE NAME: C-TC-15
 SHEET NO.
C-TC-015

A B C D E F G H I J K L

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MINOR STREET – TYPICAL ROADWAY CENTER CLOSURE

NOTES:

1. THIS DRAWING SHOWS ONLY ONE STAGE OF TRAFFIC CONTROL. THE CONTRACTOR SHALL INCLUDE THEIR STAGING PLAN IN THEIR OWN TRAFFIC CONTROL PLAN SUBMITTAL. SUBMIT TO THE ENGINEER FOR REVIEW AND ACCEPTANCE.
2. FOR ADDITIONAL NOTES AND REQUIREMENTS RELATED TO TRAFFIC CONTROL FOR WORK IN THE CENTER OF A MINOR STREET, CONTRACTOR SHALL FOLLOW FIGURE 6H-15 OF THE MUTCD (2010 CALIFORNIA EDITION)
3. WHEN MINOR STREET ROAD CLOSURES ARE ALLOWED, THE CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF THE MUTCD (2010 CALIFORNIA EDITION) FOR DETOUR SIGNAGE, INCLUDING 48-HOUR DOORKNOB NOTICING TO AFFECTED RESIDENTS. SUBMIT DETOUR PLANS TO THE ENGINEER FOR REVIEW AND ACCEPTANCE.
4. 10' MINIMUM LANE WIDTHS SHALL BE MAINTAINED AT ALL TIMES. LANE WIDTH IS MEASURED FROM THE NEAR EDGE OF CHANNELIZING DEVICES TO THE EDGE OF PAVEMENT OR CURB/AC BERM FLOWLINE.

SCALE: 1"=40'

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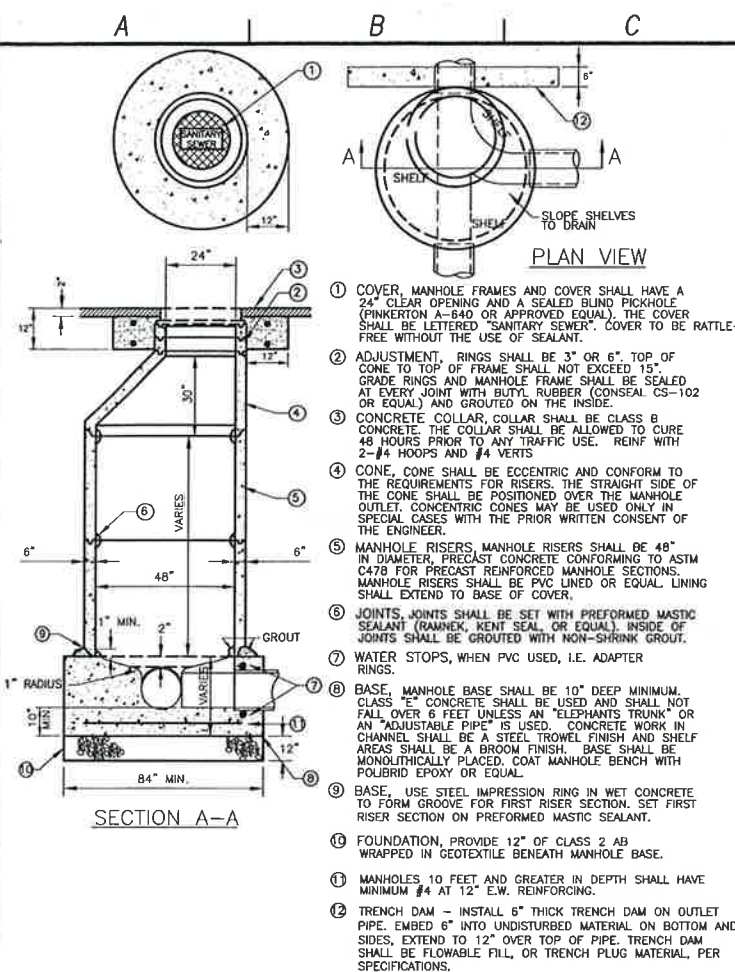
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LOS OSOS WASTEWATER COLLECTION SYSTEM
 AREA C TRAFFIC CONTROL PLAN
 TYPICAL MINOR STREET
 MID-BLOCK ROADWAY CENTER CLOSURE

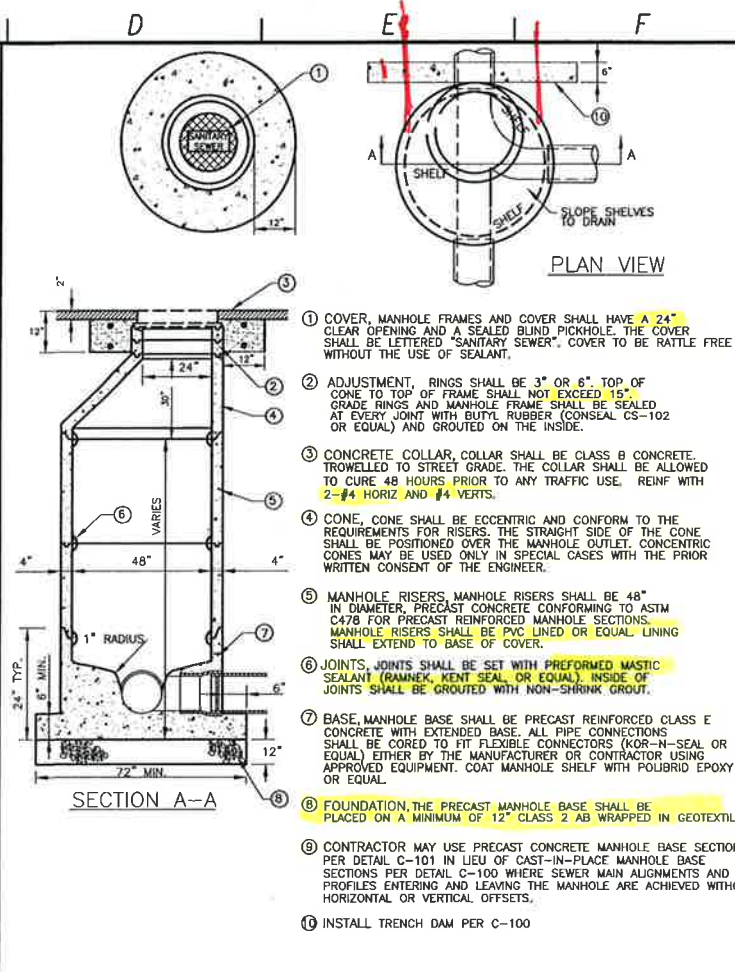
PROJECT NO. 42502-B3120
 FILE NAME: C-TC-16
 SHEET NO.
C-TC-016

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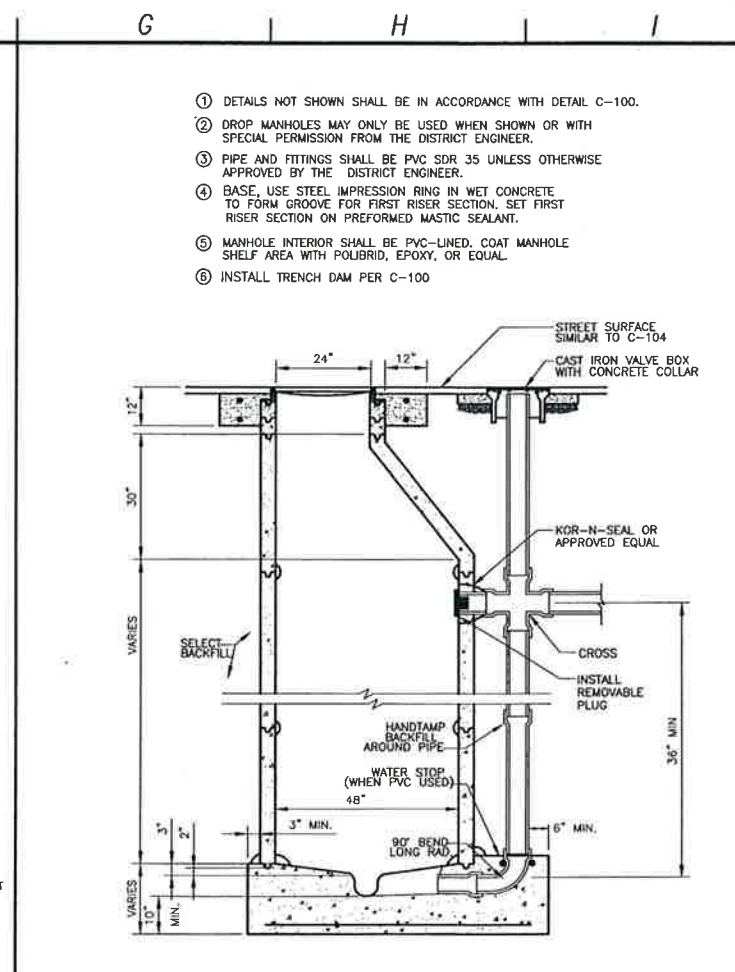
- 1 COVER, MANHOLE FRAMES AND COVER SHALL HAVE A 24" CLEAR OPENING AND A SEALED BLIND PICKHOLE (PINKERTON A-640 OR APPROVED EQUAL). THE COVER SHALL BE LETTERED "SANITARY SEWER". COVER TO BE RATTLE-FREE WITHOUT THE USE OF SEALANT.
- 2 ADJUSTMENT, RINGS SHALL BE 3" OR 6" TOP OF CONE TO TOP OF FRAME SHALL NOT EXCEED 15". GRADE RINGS AND MANHOLE FRAME SHALL BE SEALED AT EVERY JOINT WITH BUTYL RUBBER (CONSAL CS-102 OR EQUAL) AND GROUTED ON THE INSIDE.
- 3 CONCRETE COLLAR, COLLAR SHALL BE CLASS B CONCRETE. THE COLLAR SHALL BE ALLOWED TO CURE 48 HOURS PRIOR TO ANY TRAFFIC USE. REINF WITH 2-#4 HOOPS AND #4 VERTS.
- 4 CONE, CONE SHALL BE ECCENTRIC AND CONFORM TO THE REQUIREMENTS FOR RISERS. THE STRAIGHT SIDE OF THE CONE SHALL BE POSITIONED OVER THE MANHOLE OUTLET. CONCENTRIC CONES MAY BE USED ONLY IN SPECIAL CASES WITH THE PRIOR WRITTEN CONSENT OF THE ENGINEER.
- 5 MANHOLE RISERS, MANHOLE RISERS SHALL BE 48" IN DIAMETER, PRECAST CONCRETE CONFORMING TO ASTM C478 FOR PRECAST REINFORCED MANHOLE SECTIONS. MANHOLE RISERS SHALL BE PVC LINED OR EQUAL LINING SHALL EXTEND TO BASE OF COVER.
- 6 JOINTS, JOINTS SHALL BE SET WITH PREFORMED MASTIC SEALANT (RAMNEX, KENT SEAL, OR EQUAL). INSIDE OF JOINTS SHALL BE GROUTED WITH NON-SHRINK GROUT.
- 7 WATER STOPS, WHEN PVC USED, I.E. ADAPTER RINGS.
- 8 BASE, MANHOLE BASE SHALL BE 10" DEEP MINIMUM. CLASS E CONCRETE SHALL BE USED AND SHALL NOT FALL OVER 6 FEET UNLESS AN "ELEPHANT'S TRUNK" OR AN "ADJUSTABLE PIPE" IS USED. CONCRETE WORK IN CHANNEL SHALL BE A STEEL TROWEL FINISH AND SHELF AREAS SHALL BE A BROOM FINISH. BASE SHALL BE MONOLITHICALLY PLACED. COAT MANHOLE BENCH WITH POLIBRID EPOXY OR EQUAL.
- 9 BASE, USE STEEL IMPRESSION RING IN WET CONCRETE TO FORM GROOVE FOR FIRST RISER SECTION. SET FIRST RISER SECTION ON PREFORMED MASTIC SEALANT.
- 10 FOUNDATION, PROVIDE 12" OF CLASS 2 AB WRAPPED IN GEOTEXTILE BENEATH MANHOLE BASE.
- 11 MANHOLES 10 FEET AND GREATER IN DEPTH SHALL HAVE MINIMUM #4 AT 12" E.W. REINFORCING.
- 12 TRENCH DAM - INSTALL 6" THICK TRENCH DAM ON OUTLET PIPE. EMBED 6" INTO UNDISTURBED MATERIAL ON BOTTOM AND SIDES. EXTEND TO 12" OVER TOP OF PIPE. TRENCH DAM SHALL BE FLOWABLE FILL, OR TRENCH PLUG MATERIAL, PER SPECIFICATIONS.

STANDARD SEWER MANHOLE C-100



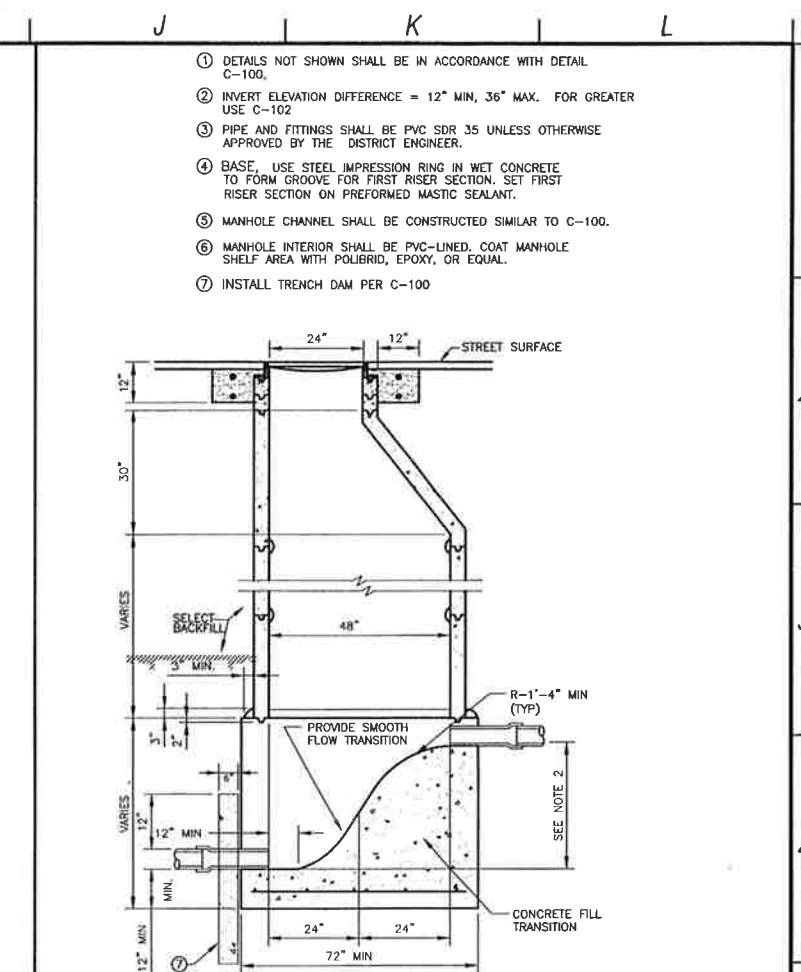
- 1 COVER, MANHOLE FRAMES AND COVER SHALL HAVE A 24" CLEAR OPENING AND A SEALED BLIND PICKHOLE. THE COVER SHALL BE LETTERED "SANITARY SEWER". COVER TO BE RATTLE FREE WITHOUT THE USE OF SEALANT.
- 2 ADJUSTMENT, RINGS SHALL BE 3" OR 6". TOP OF CONE TO TOP OF FRAME SHALL NOT EXCEED 15". GRADE RINGS AND MANHOLE FRAME SHALL BE SEALED AT EVERY JOINT WITH BUTYL RUBBER (CONSAL CS-102 OR EQUAL) AND GROUTED ON THE INSIDE.
- 3 CONCRETE COLLAR, COLLAR SHALL BE CLASS B CONCRETE. TROWELLED TO STREET GRADE. THE COLLAR SHALL BE ALLOWED TO CURE 48 HOURS PRIOR TO ANY TRAFFIC USE. REINF WITH 2-#4 HORIZ AND #4 VERTS.
- 4 CONE, CONE SHALL BE ECCENTRIC AND CONFORM TO THE REQUIREMENTS FOR RISERS. THE STRAIGHT SIDE OF THE CONE SHALL BE POSITIONED OVER THE MANHOLE OUTLET. CONCENTRIC CONES MAY BE USED ONLY IN SPECIAL CASES WITH THE PRIOR WRITTEN CONSENT OF THE ENGINEER.
- 5 MANHOLE RISERS, MANHOLE RISERS SHALL BE 48" IN DIAMETER, PRECAST CONCRETE CONFORMING TO ASTM C478 FOR PRECAST REINFORCED MANHOLE SECTIONS. MANHOLE RISERS SHALL BE PVC LINED OR EQUAL LINING SHALL EXTEND TO BASE OF COVER.
- 6 JOINTS, JOINTS SHALL BE SET WITH PREFORMED MASTIC SEALANT (RAMNEX, KENT SEAL, OR EQUAL). INSIDE OF JOINTS SHALL BE GROUTED WITH NON-SHRINK GROUT.
- 7 BASE, MANHOLE BASE SHALL BE PRECAST REINFORCED CLASS E CONCRETE WITH EXTENDED BASE. ALL PIPE CONNECTIONS SHALL BE CORED TO FIT FLEXIBLE CONNECTORS (KOR-N-SEAL OR EQUAL) EITHER BY THE MANUFACTURER OR CONTRACTOR USING APPROVED EQUIPMENT. COAT MANHOLE SHELF WITH POLIBRID EPOXY OR EQUAL.
- 8 FOUNDATION, THE PRECAST MANHOLE BASE SHALL BE PLACED ON A MINIMUM OF 12" CLASS 2 AB WRAPPED IN GEOTEXTILE.
- 9 CONTRACTOR MAY USE LIEU OF PRECAST CONCRETE MANHOLE BASE SECTIONS PER DETAIL C-101 IN LIEU OF CAST-IN-PLACE MANHOLE BASE SECTIONS WHERE SEWER MAIN ALIGNMENTS AND PROFILES ENTERING AND LEAVING THE MANHOLE ARE ACHIEVED WITHOUT HORIZONTAL OR VERTICAL OFFSETS.
- 10 INSTALL TRENCH DAM PER C-100

PRE-CAST BASE SEWER MANHOLE C-101



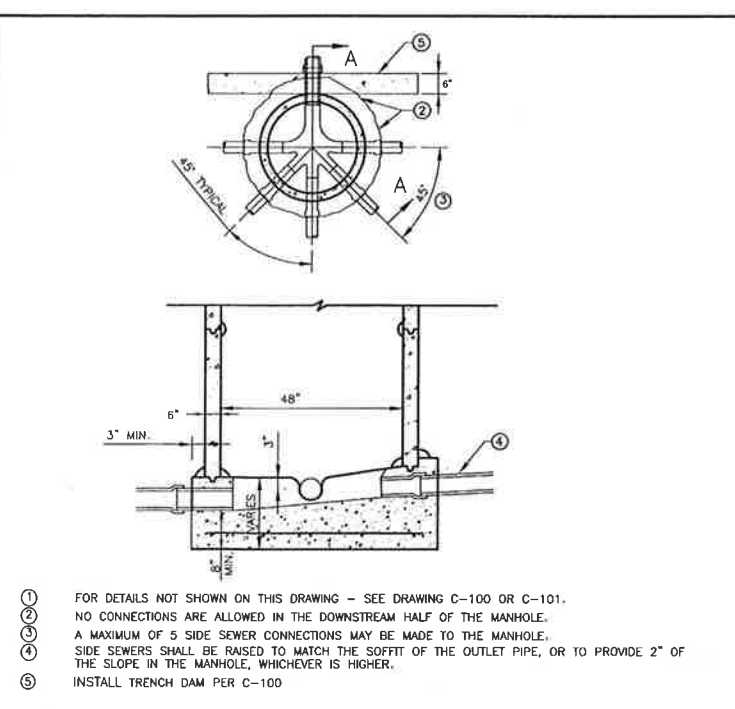
- 1 DETAILS NOT SHOWN SHALL BE IN ACCORDANCE WITH DETAIL C-100.
- 2 DROP MANHOLES MAY ONLY BE USED WHEN SHOWN OR WITH SPECIAL PERMISSION FROM THE DISTRICT ENGINEER.
- 3 PIPE AND FITTINGS SHALL BE PVC SDR 35 UNLESS OTHERWISE APPROVED BY THE DISTRICT ENGINEER.
- 4 BASE, USE STEEL IMPRESSION RING IN WET CONCRETE TO FORM GROOVE FOR FIRST RISER SECTION. SET FIRST RISER SECTION ON PREFORMED MASTIC SEALANT.
- 5 MANHOLE INTERIOR SHALL BE PVC-LINED. COAT MANHOLE SHELF AREA WITH POLIBRID, EPOXY, OR EQUAL.
- 6 INSTALL TRENCH DAM PER C-100

SEWER DROP MANHOLE C-102



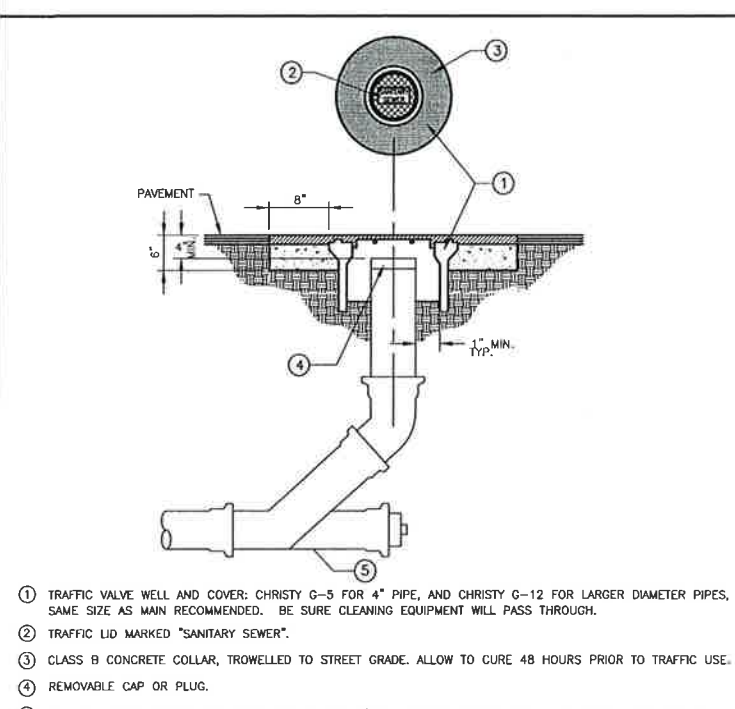
- 1 DETAILS NOT SHOWN SHALL BE IN ACCORDANCE WITH DETAIL C-100.
- 2 INVERT ELEVATION DIFFERENCE = 12" MIN, 36" MAX. FOR GREATER USE C-102
- 3 PIPE AND FITTINGS SHALL BE PVC SDR 35 UNLESS OTHERWISE APPROVED BY THE DISTRICT ENGINEER.
- 4 BASE, USE STEEL IMPRESSION RING IN WET CONCRETE TO FORM GROOVE FOR FIRST RISER SECTION. SET FIRST RISER SECTION ON PREFORMED MASTIC SEALANT.
- 5 MANHOLE CHANNEL SHALL BE CONSTRUCTED SIMILAR TO C-100.
- 6 MANHOLE INTERIOR SHALL BE PVC-LINED. COAT MANHOLE SHELF AREA WITH POLIBRID, EPOXY, OR EQUAL.
- 7 INSTALL TRENCH DAM PER C-100

SEWER INTERMEDIATE DROP MANHOLE C-102A



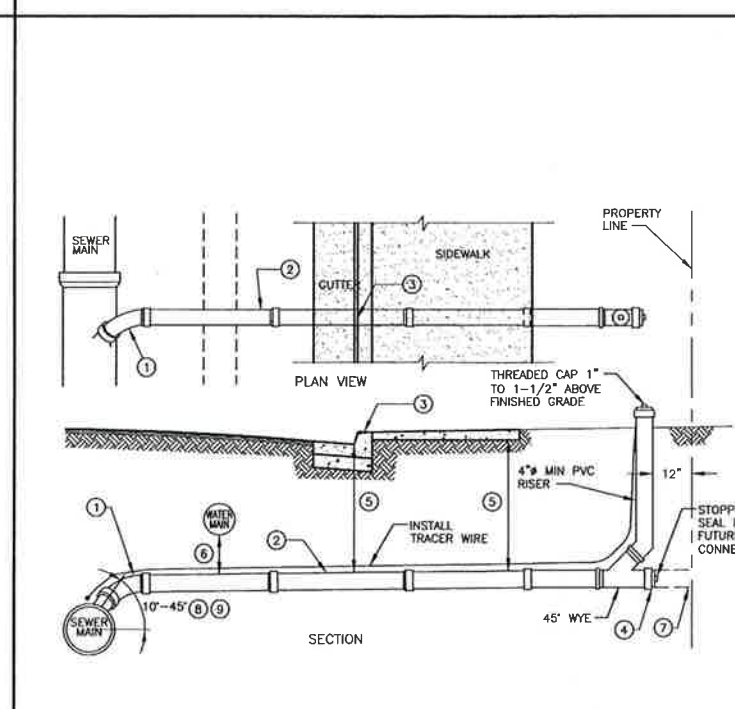
- 1 FOR DETAILS NOT SHOWN ON THIS DRAWING - SEE DRAWING C-100 OR C-101.
- 2 NO CONNECTIONS ARE ALLOWED IN THE DOWNSTREAM HALF OF THE MANHOLE.
- 3 A MAXIMUM OF 5 SIDE SEWER CONNECTIONS MAY BE MADE TO THE MANHOLE.
- 4 SIDE SEWERS SHALL BE RAISED TO MATCH THE SOFFIT OF THE OUTLET PIPE, OR TO PROVIDE 2" OF THE SLOPE IN THE MANHOLE, WHICHEVER IS HIGHER.
- 5 INSTALL TRENCH DAM PER C-100

END OF LINE SEWER MANHOLE C-103



- 1 TRAFFIC VALVE WELL AND COVER: CHRISTY G-5 FOR 4" PIPE, AND CHRISTY G-12 FOR LARGER DIAMETER PIPES. SAME SIZE AS MAIN RECOMMENDED. BE SURE CLEANING EQUIPMENT WILL PASS THROUGH.
- 2 TRAFFIC LID MARKED "SANITARY SEWER".
- 3 CLASS B CONCRETE COLLAR, TROWELLED TO STREET GRADE. ALLOW TO CURE 48 HOURS PRIOR TO TRAFFIC USE.
- 4 REMOVABLE CAP OR PLUG.
- 5 2 - 45° BENDS SPACED 12 INCHES APART. 22 1/2" OR SWEEP IS PREFERABLE. ALL PIPES SHALL MATCH SEWER MAIN DIAMETER.

SEWER CLEANOUT C-104



- 1 FACTORY-FABRICATED WYE CONNECTION TO NEW SEWER MAINS (SADDLE AND TAPPED CONNECTION TO EXISTING SEWER MAINS), WITH 1/8 BEND. BEND SHALL POINT DOWNSTREAM AND ENTER MAIN AT A VERTICAL ANGLE.
- 2 SEWER LATERAL PIPE AND FITTINGS SHALL BE SDR 35 PVC WITH A MINIMUM DIAMETER OF 4", AND A MINIMUM SLOPE OF 1/4" PER FOOT. LATERAL INSTALLATION SHALL BEGIN AT MAIN AND PROCEED TO END. GRADE SHALL BE UNIFORM FROM MAIN TO PROPERTY LINE. CHANGES IN GRADE OF LATERAL SHALL BE MADE USING LONG-RADIUS BENDS. PROVIDE WATER TIGHT PLUG AT END OF PIPE.
- 3 TOP OF CURB SHALL BE MARKED WITH AN "S" DIRECTLY OVER LATERAL. THE "S" SHALL BE STAMPED IN NEW CONCRETE OR CHISELED INTO EXISTING CONCRETE, AND SHALL NOT BE LESS THAN 3" LONG, 2" WIDE AND 3/16" DEEP. IN AREAS WITHOUT CURB PROVIDE 4" SQUARE CONC MARKER MARKED "S". PROVIDE WATER TIGHT MECHANICAL PLUG.
- 4 DEPTH OF LATERAL SHALL NOT BE LESS THAN 36" FROM TOP OF PIPE UNLESS ENCASED IN CONCRETE OR IRON PIPE. MAXIMUM DEPTH AT GUTTERLINE SHALL BE 60" WHEN TERRAIN IS FLAT, UNLESS OTHERWISE NOTED. A MINIMUM SEPARATION OF 12" SHALL BE MAINTAINED WHEN CROSSING WATER AND REW LINES. UNLESS OTHERWISE SHOWN, ROUTE LATERAL UNDER WATER AND REW MAINS WHEN POSSIBLE. IF VERTICAL DEFLECTIONS NECESSARY USE 22 1/2" LONG RADIUS ELBOWS.
- 5 SEWER LATERAL ON PRIVATE PROPERTY WITH CLEANOUTS SPACED AT 100 FOOT MAXIMUM INTERVALS AND WHERE LATERALS CHANGE DIRECTION.
- 6 DEEP LATERAL IN WHICH WYE IS INSTALLED VERTICALLY WILL BE ALLOWED ON CASE BY CASE BASIS. PROVIDE LONG RADIUS 22 1/2" ELBOW AT TOP.
- 7 FOR BELOW STREET GRADE HOMES THE WYE ANGLE MAY BE REDUCED TO LESS THAN 10° ON CASE BY CASE BASIS. PROVIDE 1/8" PER FOOT SLOPE MINIMUM.
- 8 ADJUST LATERAL SLOPES TO AVOID CONFLICTS WITH UTILITIES AND OTHER PIPES.

SEWER LATERAL C-105

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: BJC
 DRAWN BY: JAW
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 DATE: APRIL, 2012

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 L. ALLEN
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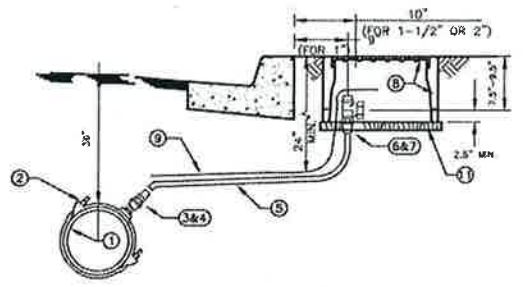
LOS OSOS WASTEWATER COLLECTION SYSTEM
GENERAL CIVIL STANDARD CIVIL DETAILS - 1

PROJECT NO. 42502-83120
 FILE NAME: C-GC-060
 SHEET NO.
C-GC-060

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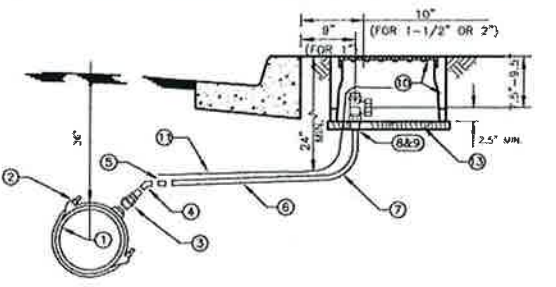
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A B C



1	WATER MAIN	3/4" PER PLAN
2	SERVICE SADDLE	BRONZE, DOUBLE STRAP, JAMES JONES J-979 FOR AC PIPE, JAMES JONES J-989 FOR PVC PIPE OR APPROVED EQUAL.
3	CORPORATION STOP	GROUNDKEY: JAMES JONES J-1044, 1" SIZE ONLY, MIP X MIP #41
4	ADAPTER	1" FIP X INSTANTITE, MUELLER H15456
5	SERVICE LATERAL	1" POLYETHYLENE ONLY, IPS SIZE, 200 PSI MINIMUM, WESTFLEX GOLD LABEL 3408, DRISCOPIPE, OR APPROVED EQUAL.
6	ANGLE METER STOP (BALL TYPE)	JAMES JONES J-1527 (1"x1" OR 1"x 3/4")
7	ADAPTER	1" MIP X INSTANTITE H15456
8	METER BOX AND LID	BROOKS 37 SERIES (TRAFFIC LID IN TRAFFIC AREA ONLY)
9	10 GAGE TRACER WIRE PER SPECIFICATIONS.	
10	IN UNPAVED AREAS, RAISE METER BOX 1" ABOVE THE ADJACENT FINISHED SURFACE.	
11	1" X 12" CONCRETE BASE	
12	CUSTOMER SIDE CURB STOP - JONES J 1013W	

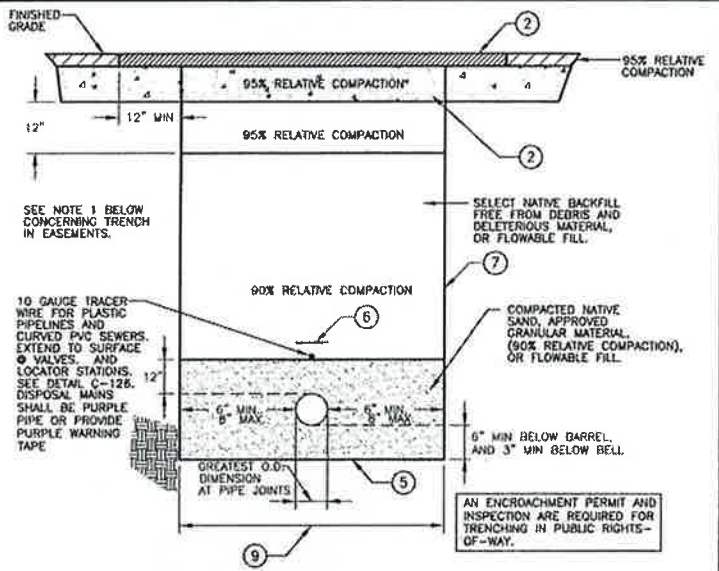
SINGLE WATER SERVICE C-110



1	WATER MAIN	1-1/2" PER PLAN
2	SERVICE SADDLE	BRONZE, DOUBLE STRAP, JAMES JONES J-979 FOR AC PIPE, JAMES JONES J-989 FOR PVC PIPE OR APPROVED EQUAL.
3	CORPORATION STOP	BALL VALVE: JAMES JONES J-1043, 2" SIZE ONLY, MIP X MIP
4	BRASS 45° EL	2" 45° ELBOW ONLY
5	ADAPTER	FORD 2" PAC COUPLING X MIP
6	SERVICE LATERAL	2" SCH 80 PVC ONLY
7	90° ELBOW	2" SCH 80 90° ELBOW
8	ANGLE METER STOP (BALL TYPE)	FORD FB11027
9	ADAPTER	2" SCH 80 MIP X SOG
10	METER BOX AND LID	BROOKS 36 SERIES (TRAFFIC LID IF IN DRIVEWAY)
11	10 GAGE TRACER WIRE PER SPECIFICATIONS.	
12	IN UNPAVED AREAS, RAISE METER BOX 1" ABOVE THE ADJACENT FINISHED SURFACE.	
13	1" X 12" CONCRETE BASE	
14	CUSTOMER SIDE CURB STOP - JF108	

SINGLE WATER SERVICE C-111

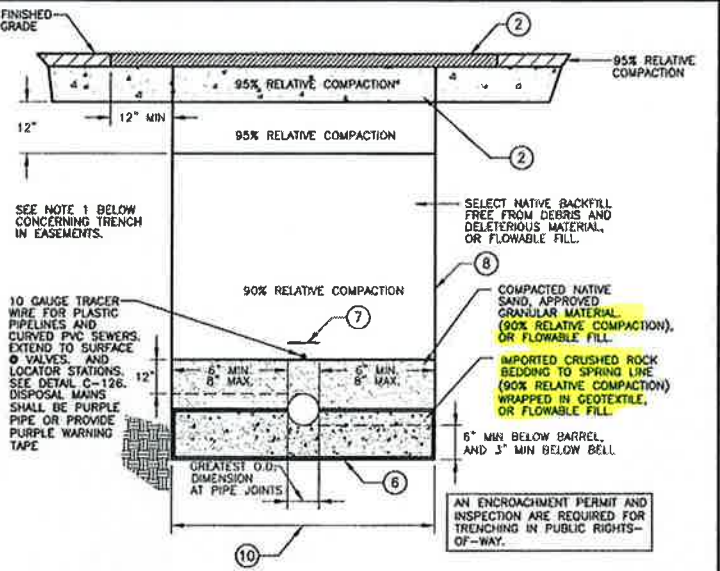
D E F



- NOTES:**
- A MINIMUM OF 90% RELATIVE COMPACTION IS PERMITTED IN A NON-ROADWAY TRENCH WHEN NO STRUCTURES ARE TO BE BUILT OVER THE TRENCH. IF STRUCTURES ARE TO BE BUILT OVER THE TRENCH, USE RELATIVE COMPACTIONS SHOWN ON THE TRENCH SECTION ABOVE.
 - PAVEMENT SECTIONS SHALL BE NO LESS THAN EXISTING STRUCTURAL SECTIONS, AND AS REQUIRED BY THE COUNTY FOR TRENCHES WITHIN A COUNTY RIGHT-OF-WAY. SEE DETAIL C-120.
 - SEE DETAIL C-116B FOR WET TRENCH SECTION.
 - A DRY TRENCH IS A TRENCH IN NON-GROUNDWATER AREAS.
 - WHERE THE BOTTOM OF THE TRENCH HAS BEEN DISTURBED, THE CONTRACTOR SHALL SCARIFY AND COMPACT THE SUBGRADE TO 90% RELATIVE COMPACTION.
 - 3" WIDE POLYETHYLENE NON-DETECTABLE WARNING TAPE 12" ABOVE ALL PIPE AND LATERALS.
 - VERTICAL TRENCH WALL DEPICTED, SHORING SHALL BE DESIGNED BY CONTRACTOR. TRENCH WALLS MAY BE SLOPED, CONTRACTOR SHALL COORDINATE TRENCH CONFIGURATION WITH OTHER GRAVITY, FORCEMAIN, RECYCLED WATER, AND CONDUIT PIPELINE TRENCH SECTIONS, AND CONFORM TO CULTURAL AND ENVIRONMENTAL RESTRICTIONS, THE TRAFFIC MANAGEMENT PLAN REQUIREMENTS, AND SHALL PROTECT EXISTING IMPROVEMENTS.
 - IF FLOWABLE FILL IS USED FOR BACKFILL, CONTRACTOR SHALL PROTECT AGAINST BUOYANT FORCE.
 - THIS DIMENSION AT PIPE SPRINGLINE, PLUS 24" FOR T-CUT, CONSTITUTES THE PAY LIMIT FOR AC AND AB REPLACEMENT, UNO IN TABLE 1 OF DETAIL C-120A.

PIPELINE DRY TRENCH SECTION 10" AND SMALLER C-116

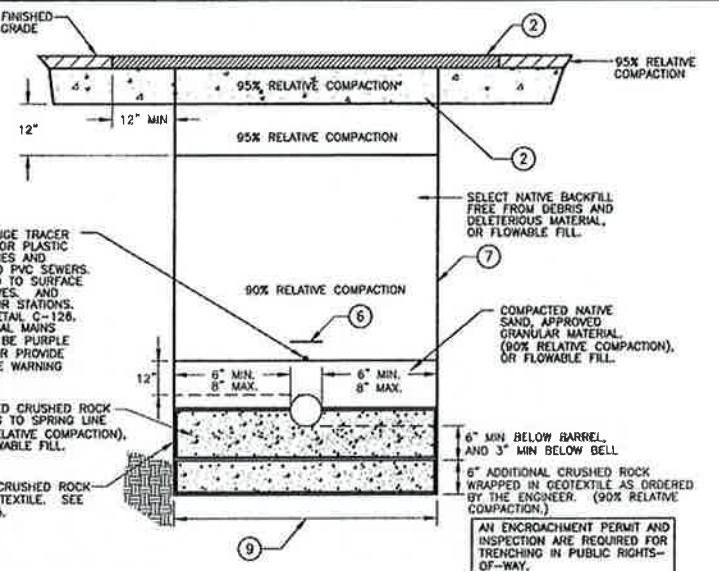
G H I



- NOTES:**
- A MINIMUM OF 90% RELATIVE COMPACTION IS PERMITTED IN A NON-ROADWAY TRENCH WHEN NO STRUCTURES ARE TO BE BUILT OVER THE TRENCH. IF STRUCTURES ARE TO BE BUILT OVER THE TRENCH, USE RELATIVE COMPACTIONS SHOWN ON THE TRENCH SECTION ABOVE.
 - PAVEMENT SECTIONS SHALL BE NO LESS THAN EXISTING STRUCTURAL SECTIONS, AND AS REQUIRED BY THE COUNTY FOR TRENCHES WITHIN A COUNTY RIGHT-OF-WAY. SEE DETAIL C-120.
 - SEE DETAIL C-116B FOR WET TRENCH SECTION.
 - A DRY TRENCH IS A TRENCH IN NON-GROUNDWATER AREAS.
 - ENDS OF GEOTEXTILE SHALL TOUCH PIPE BARREL. GEOTEXTILE MAY BE LAPPED UNDER PIPE IF DESIRED.
 - WHERE THE BOTTOM OF THE TRENCH HAS BEEN DISTURBED, THE CONTRACTOR SHALL SCARIFY AND COMPACT THE SUBGRADE TO 90% RELATIVE COMPACTION.
 - 3" WIDE POLYETHYLENE NON-DETECTABLE WARNING TAPE 12" ABOVE ALL PIPE AND LATERALS.
 - VERTICAL TRENCH WALL DEPICTED, SHORING SHALL BE DESIGNED BY CONTRACTOR. TRENCH WALLS MAY BE SLOPED, CONTRACTOR SHALL COORDINATE TRENCH CONFIGURATION WITH OTHER GRAVITY, FORCEMAIN, RECYCLED WATER, AND CONDUIT PIPELINE TRENCH SECTIONS, AND CONFORM TO CULTURAL AND ENVIRONMENTAL RESTRICTIONS, THE TRAFFIC MANAGEMENT PLAN REQUIREMENTS, AND SHALL PROTECT EXISTING IMPROVEMENTS.
 - IF FLOWABLE FILL IS USED FOR BACKFILL, CONTRACTOR SHALL PROTECT AGAINST BUOYANT FORCE.
 - THIS DIMENSION AT PIPE SPRINGLINE, PLUS 24" FOR T-CUT, CONSTITUTES THE PAY LIMIT FOR AC AND AB REPLACEMENT, UNO IN TABLE 1 OF DETAIL C-120A.

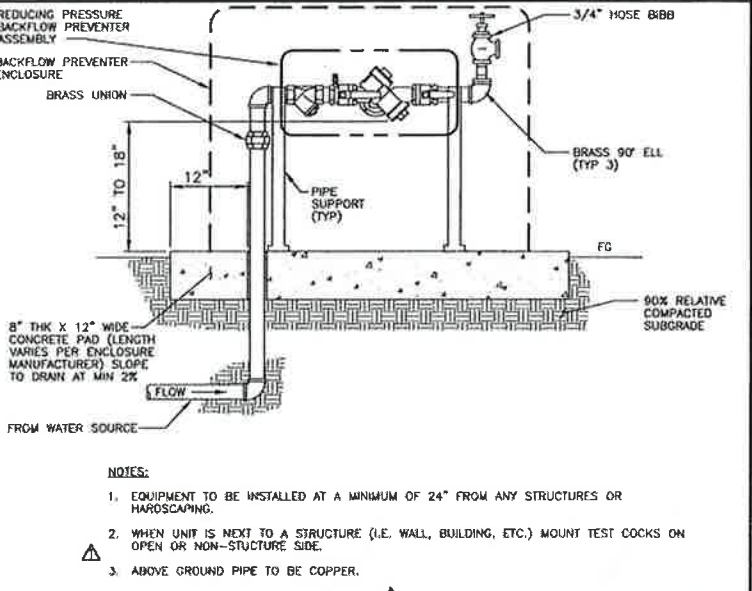
PIPELINE DRY TRENCH SECTION 12" AND LARGER C-116A

J K L



- NOTES:**
- A MINIMUM OF 90% RELATIVE COMPACTION IS PERMITTED IN A NON-ROADWAY TRENCH WHEN NO STRUCTURES ARE TO BE BUILT OVER THE TRENCH. IF STRUCTURES ARE TO BE BUILT OVER THE TRENCH, USE RELATIVE COMPACTIONS SHOWN ON THE TRENCH SECTION ABOVE.
 - PAVEMENT SECTIONS SHALL BE NO LESS THAN EXISTING STRUCTURAL SECTIONS, AND AS REQUIRED BY THE COUNTY FOR TRENCHES WITHIN A COUNTY RIGHT-OF-WAY. SEE DETAIL C-120.
 - SEE DETAILS C-116 AND C-116A FOR DRY TRENCH SECTIONS.
 - A WET TRENCH IS A TRENCH IN GROUNDWATER AREAS BUT HAS BEEN DEWATERED IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS.
 - ENDS OF GEOTEXTILE SHALL TOUCH PIPE BARREL. GEOTEXTILE MAY BE LAPPED UNDER PIPE IF DESIRED.
 - 3" WIDE POLYETHYLENE NON-DETECTABLE WARNING TAPE 12" ABOVE ALL PIPE AND LATERALS.
 - VERTICAL TRENCH WALL DEPICTED, SHORING SHALL BE DESIGNED BY CONTRACTOR. TRENCH WALLS MAY BE SLOPED, CONTRACTOR SHALL COORDINATE TRENCH CONFIGURATION WITH OTHER GRAVITY, FORCEMAIN, RECYCLED WATER, AND CONDUIT PIPELINE TRENCH SECTIONS, AND CONFORM TO CULTURAL AND ENVIRONMENTAL RESTRICTIONS, THE TRAFFIC MANAGEMENT PLAN REQUIREMENTS, AND SHALL PROTECT EXISTING IMPROVEMENTS.
 - IF FLOWABLE FILL IS USED FOR BACKFILL, CONTRACTOR SHALL PROTECT AGAINST BUOYANT FORCE.
 - THIS DIMENSION AT PIPE SPRINGLINE, PLUS 24" FOR T-CUT, CONSTITUTES THE PAY LIMIT FOR AC AND AB REPLACEMENT, UNO IN TABLE 1 OF DETAIL C-120A.

PIPELINE WET TRENCH SECTION ALL DIAMETERS C-116B



BACKFLOW PREVENTER WITH HOSE BIBB AND ENCLOSURE NOT TO SCALE C-112

DESIGNED BY: BJC
 DRAWN BY: JAW
 CHECKED BY: MDM
 DATE: APRIL 2012

CDM Smith
 2295 Gateway Oaks Drive, Suite 240
 Sacramento, CA 95833
 Tel: (916) 567-9900

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LOS OSOS WASTEWATER COLLECTION SYSTEM
 GENERAL CIVIL STANDARD CIVIL DETAILS - 2
 PROJECT NO. 42502-8312C
 FILE NAME: C-GC-061
 SHEET NO. C-GC-061

REV. NO.	DATE	DRWN	CHKD	REMARKS
7/2012	LLB	RLA	CONFORMED	
5/01/12	LLB	MDM	ADDENDUM #1	

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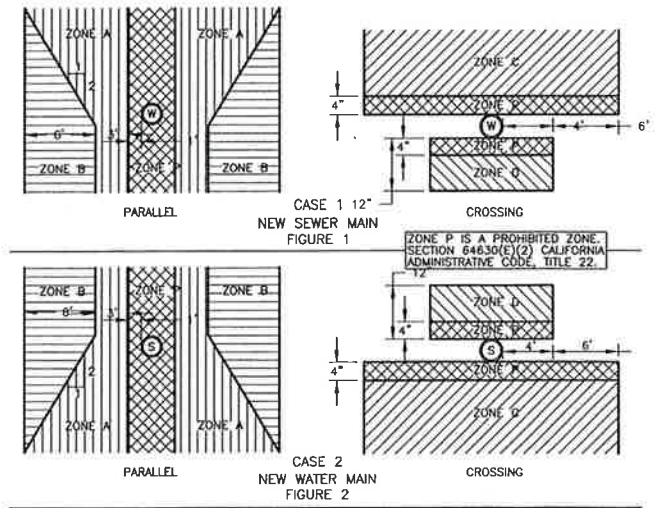
CRITERIA FOR THE SEPARATION OF WATER MAINS AND SANITARY SEWERS
CASE 1
NEW SEWER MAIN BEING INSTALLED
 (SEE FIGURE 1)

ZONE	SPECIAL CONSTRUCTION REQUIRED FOR SEWER:
A	SEWER LINES PARALLEL TO WATER MAINS SHALL NOT BE PERMITTED IN THIS ZONE WITHOUT APPROVAL FROM THE RESPONSIBLE HEALTH AGENCY AND WATER SUPPLIER.
B	A SEWER LINE PLACED PARALLEL TO A WATER LINE SHALL BE CONSTRUCTED OF: 1. PLASTIC SEWER PIPE WITH RUBBER RING JOINTS (PER ASTM D3034) OR EQUIVALENT. 2. CAST OR DUCTILE IRON PIPE WITH COMPRESSION JOINTS.
C	A SEWER LINE CROSSING A WATER MAIN SHALL BE CONSTRUCTED OF: 1. DUCTILE IRON PIPE WITH HOT DIP BITUMINOUS COATING AND MECHANICAL JOINTS. 2. A CONTINUOUS SECTION OF CLASS 200 (OR 14 PER AWWA C900) PLASTIC PIPE, OR EQUIVALENT, CENTERED OVER THE PIPE BEING CROSSED. 3. ANY SEWER PIPE WITHIN A CONTINUOUS SLEEVE.
D	A SEWER LINE CROSSING A WATER MAIN SHALL BE CONSTRUCTED OF: 1. A CONTINUOUS SECTION OF DUCTILE IRON PIPE WITH HOT DIP BITUMINOUS COATING. 2. A CONTINUOUS SECTION OF CLASS 200 (OR 14 PER AWWA C900) PLASTIC PIPE OR EQUIVALENT, CENTERED OVER THE PIPE BEING CROSSED. 3. ANY SEWER PIPE WITHIN A CONTINUOUS SLEEVE. 4. ANY SEWER PIPE SEPARATED BY A TEN-FOOT BY TEN-FOOT, FOUR-INCH THICK REINFORCED CONCRETE SLAB.

CASE 2
NEW WATER MAIN BEING INSTALLED
 (SEE FIGURE 2)

ZONE	SPECIAL CONSTRUCTION REQUIRED FOR WATER:
A	NO WATER MAINS PARALLEL TO SERVICE SHALL BE CONSTRUCTED WITHOUT APPROVAL FROM THE HEALTH AGENCY.
B	IF THE SEWER PARALLELING THE WATER MAIN DOES NOT MEET THE CASE 1, ZONE B REQUIREMENTS, THE WATER MAIN SHALL BE CONSTRUCTED OF: 1. DUCTILE IRON PIPE WITH HOT DIP BITUMINOUS COATING. 2. DIPPED AND WRAPPED ONE-FOURTH-INCH THICK WELDED STEEL PIPE. 3. CLASS 200 PRESSURE RATED PLASTIC WATER PIPE (OR 14 PER AWWA C900) OR EQUIVALENT. 4. REINFORCED CONCRETE PRESSURE PIPE, STEEL CYLINDER TYPE, PER AWWA (C300-74, C301-79 OR C303-70). 5. CLASS 200, TYPE II, ASBESTOS-CEMENT PRESSURE PIPE.
C	IF THE SEWER CROSSING THE WATER MAIN DOES NOT MEET THE CASE 1, ZONE C REQUIREMENTS, THE WATER MAIN SHALL HAVE NO JOINTS IN ZONE C AND BE CONSTRUCTED OF: 1, 2, 3 OR 4 AS IN ZONE B, ABOVE.
D	IF THE SEWER CROSSING THE WATER MAIN DOES NOT MEET THE CASE 1, ZONE D REQUIREMENTS, THE WATER MAIN SHALL HAVE NO JOINTS WITHIN FOUR FEET FROM EITHER SIDE OF THE SEWER AND SHALL BE CONSTRUCTED OF: 1, 2, 3 OR 4 AS IN ZONE B, ABOVE.

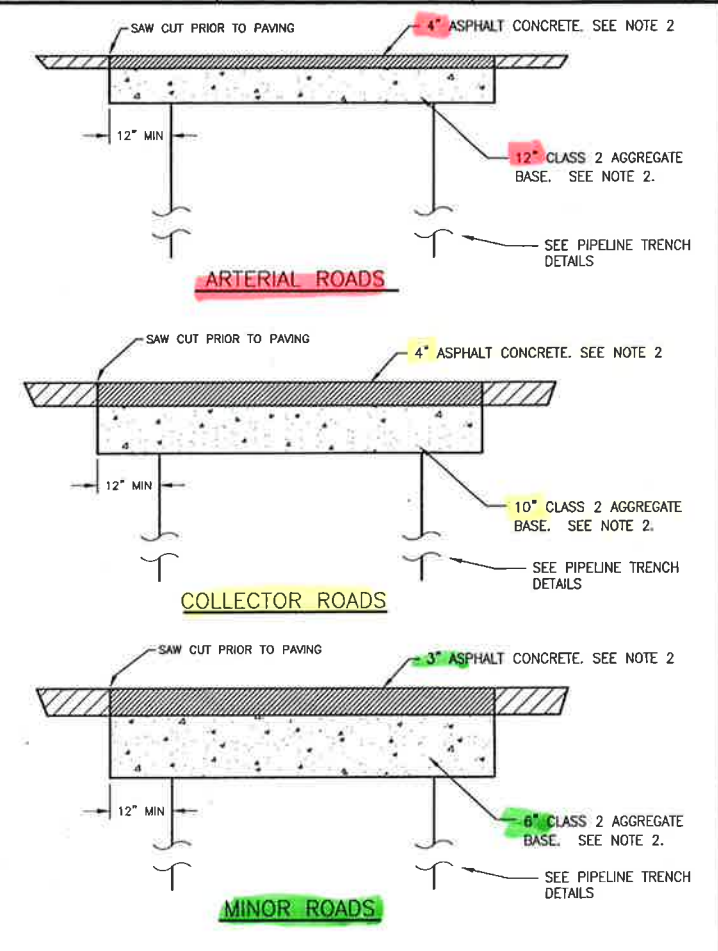
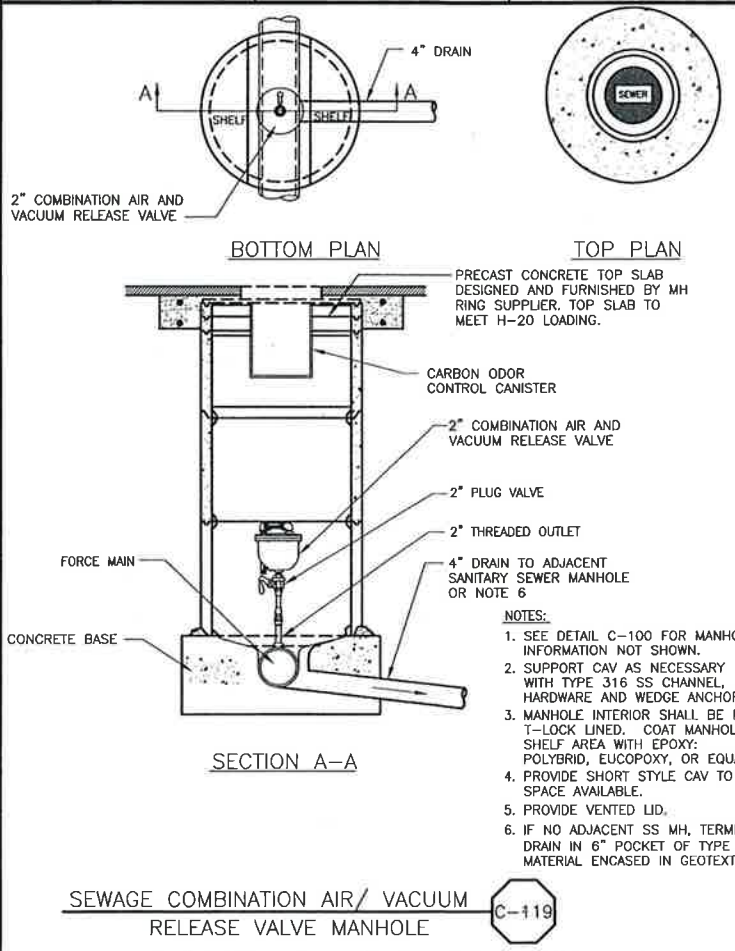
WATER AND SEWER SEPARATION NOTES C-117



NOTES AND DEFINITIONS

- COMPRESSION JOINT - A PUSH-ON JOINT THAT SEALS BY MEANS OF THE COMPRESSION OF A RUBBER RING OR GASKET BETWEEN THE PIPE AND A BELL OF COUPLING.
- DIMENSIONS ARE FROM THE OUTSIDE OF WATER MAIN TO OUTSIDE OF SEWER LINE OR MANHOLE.
- FUSED JOINT - THE JOINING OF SECTIONS OF PIPE USING THERMAL OR CHEMICAL BONDING PROCESSES.
- GROUND WATER - SUBSURFACE WATER FOUND IN THE SATURATION ZONE.
- HEALTH AGENCY - THE STATE DEPARTMENT OF HEALTH SERVICES, FOR THOSE WATER SYSTEMS SUPPLYING LESS THAN 200 SERVICE CONNECTIONS, THE LOCAL HEALTH OFFICER SHALL ACT FOR THE DEPARTMENT OF HEALTH SERVICES.
- HOUSE LATERAL - A SEWER PIPE CONNECTING THE BUILDING DRAIN AND THE MAIN SEWER LINE.
- LOW HEAD WATER MAIN - ANY WATER MAIN WHICH HAS A PRESSURE OF 5 PSI OR LESS AT ANY TIME AT ANY POINT IN THE MAIN.
- MECHANICAL JOINT - BOLTED JOINT
- RATED WORKING WATER PRESSURE OR PRESSURE CLASS - A PIPE CLASSIFICATION SYSTEM BASED UPON INTERNAL WORKING PRESSURE OF THE FLUID IN THE PIPE, TYPE OF PIPE MATERIAL, AND THE THICKNESS OF THE PIPE WALL.
- SLEEVE - A PROTECTIVE TUBE OF STEEL WITH A WALL THICKNESS OF NOT LESS THAN ONE-FOURTH INCH INTO WHICH A PIPE IS INSERTED.
- WATER SUPPLIER - ANY PERSON WHO OWNS OR OPERATES A PUBLIC WATER SYSTEM

WATER AND SEWER SEPARATION DIAGRAM C-118



ARTERIAL ROADS	COLLECTOR ROADS	MINOR ROADS
LOS OSOS VALLEY ROAD SOUTH BAY BOULEVARD	PECHO VALLEY ROAD SANTA YSABEL AVENUE RAMONA AVENUE NIPOMO AVENUE NINTH STREET (BTW LOS OSOS VALLEY RD & RAMONA AVE) PINE AVENUE SEVENTH STREET ELEVENTH STREET EL MORO AVENUE (BTW 2ND ST & 12TH ST) SECOND STREET (BTW EL MORO AVENUE & SANTA YSABEL AVE) BINSICARTH ROAD PECHO ROAD BAYVIEW HEIGHTS DRIVE	ALL OTHER ROADS WITHIN PROJECT AREA

NOTES:

- MINIMUM ASPHALT CONCRETE THICKNESS SHALL BE 3".
- MATCH EXISTING ASPHALT CONCRETE AND AGGREGATE BASE THICKNESS IF THICKER.
- ASPHALT CONCRETE SHALL BE PER SPECIFICATIONS.
- GRAVEL AND BASE ROCK PAVED ROADS SHALL BE RESTORED TO MATCH EXISTING SECTION, IF FLOWABLE FILL IS USED, TERMINATE FLOWABLE FILL 6" BELOW GRADE AND RESTORE TO MATCH EXISTING.
- PROVIDE AND MAINTAIN TEMPORARY PAVEMENT UNTIL PERMANENT PAVEMENT IS INSTALLED.
- SEE DETAIL C-120A REGARDING ROADS REQUIRING FULL DEPTH RECLAMATION.

TRENCH PATCH PAVEMENT RESTORATION STRUCTURAL SECTION C-120

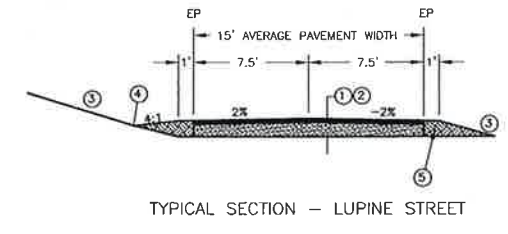
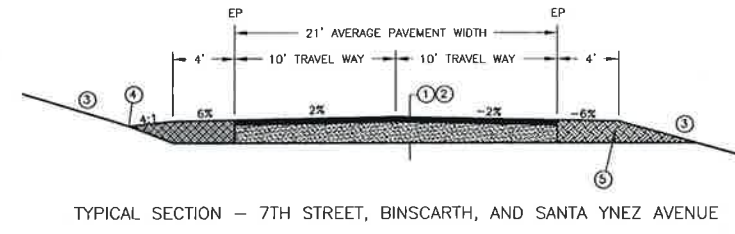
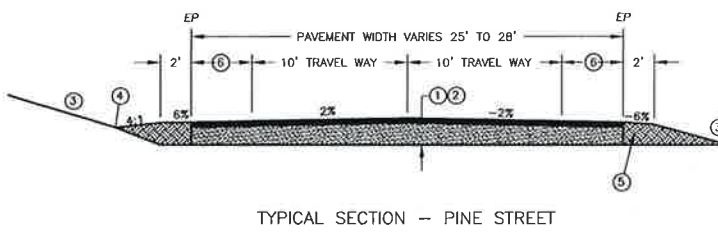


TABLE 1 - ROADS REQUIRING FULL DEPTH RECLAMATION

ROAD NAME	TI	STATION LIMITS OF FULL DEPTH RESTORATION	PULVERIZATION "DRY"	PULVERIZATION "WET"	STATION LIMITS OF "WET" ROAD
BINSICARTH AVE.	6	1+25 (AT PECHO RD) 27+40 (AT BRODERSON AVE)		4"HMA 14" PTSG	1+25 27+40
7TH STREET	7	21+20 (AT RAMONA AVE) 55+00 (AT SANTA YSABEL AVE)	4"HMA 14" PCSG	4"HMA 14" PTSG	35+50 48+10
PINE STREET	7	5+20 (AT LOS OSOS VALLEY RD) 33+00 (AT RAMONA AVE)	4"HMA 14" PCSG	4"HMA 14" PTSG	26+10 33+00
SANTA YNEZ AVE.	6.5	28+00 (AT LOST OAK DR) 33+80 (AT MOUNTAIN VIEW AVE)	3"HMA 12" PCSG		
LUPINE STREET	4.5	1+20 (AT DOBBS AVE) 5+40 (AT FEARN AVE)		3"HMA 12" PTSG	1+20 5+40

TABLE 2 - ROADS WITH FULL DEPTH RECLAMATION - GENERAL SPECIFICATION

ROAD CATEGORY	PULVERIZATION "DRY"	PULVERIZATION "WET"
COLLECTOR STREET	4"HMA OVER 14" PCSG	4"HMA OVER 14" PTSG
MINOR STREET	3"HMA OVER 12" PCSG	3"HMA OVER 12" PTSG

NOTES:

- THE STRUCTURAL SECTION SHALL BE PER TABLE 1 FOR SPECIFIC ROADS REQUIRING FULL DEPTH RECLAMATION; TABLE 2 SHALL BE THE SPECIFICATION FOR OTHER ROADS WITHIN THE PROJECT AREA THAT RECEIVE FULL DEPTH RECLAMATION AT THE CONTRACTORS OPTION OR AS DIRECTED BY ENGINEER.
- TYPICAL STRUCTURAL ROAD SECTION SHALL BE:
 HOT MIX ASPHALT (HMA) PER TABLE TO 95% RELATIVE COMPACTION, OVER PULVERIZED COMPACTED SUBGRADE OR PULVERIZED TREATED AND COMPACTED SUBGRADE TO 95% RELATIVE COMPACTION.
- CUT AND FILL SLOPE SHALL NOT EXCEED 2 HORIZONTAL TO 1 VERTICAL OR 3H:1V IN SAND.
- THE CONTRACTOR SHALL ACCOMMODATE FOR ROADSIDE DRAINAGE SUCH THAT IT DOES NOT ERODE THE ROAD SHOULDER. THE SIDE SLOPE OF ANY DRAINAGE SWALE ADJACENT TO THE ROADWAY SHALL NOT EXCEED 4H:1V.
- LIMITS OF PULVERIZATION SHALL EXTEND TO THE EDGE OF EXISTING ROAD PAVEMENT. PERFORM MINOR GRADING ON SHOULDERS TO ALLOW FOR DRAINAGE PER THE SECTION DETAILS OR AS DIRECTED BY ENGINEER.
- WIDTH VARIES UP TO 4'

TYPICAL FULL DEPTH ROAD RECLAMATION C-120A

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: BJC
 DRAWN BY: JAW
 CHECKED BY: MDM
 DATE: APRIL, 2012

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 Sacramento, CA 95833
 Tel (916) 587-9900

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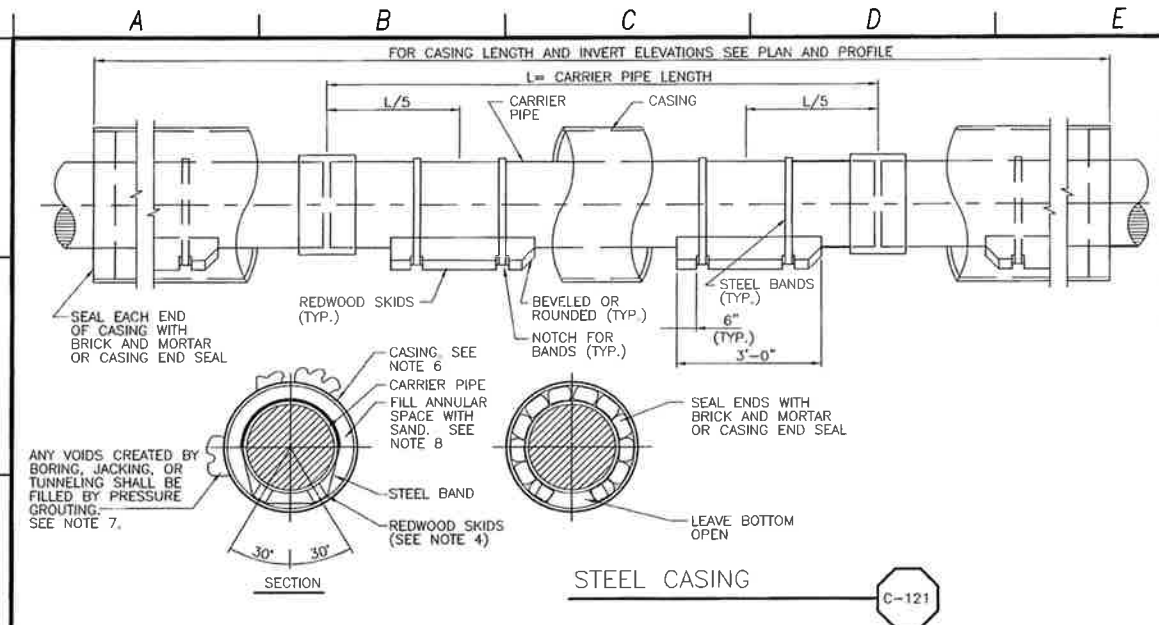
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GENERAL CIVIL STANDARD CIVIL DETAILS - 3

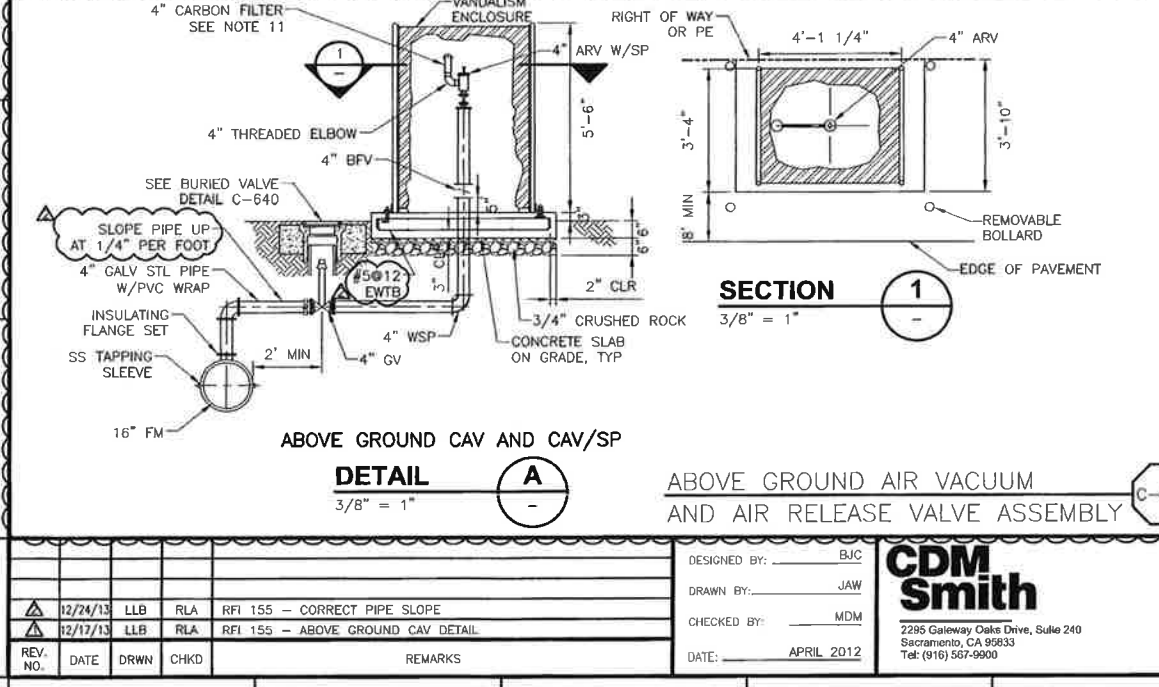
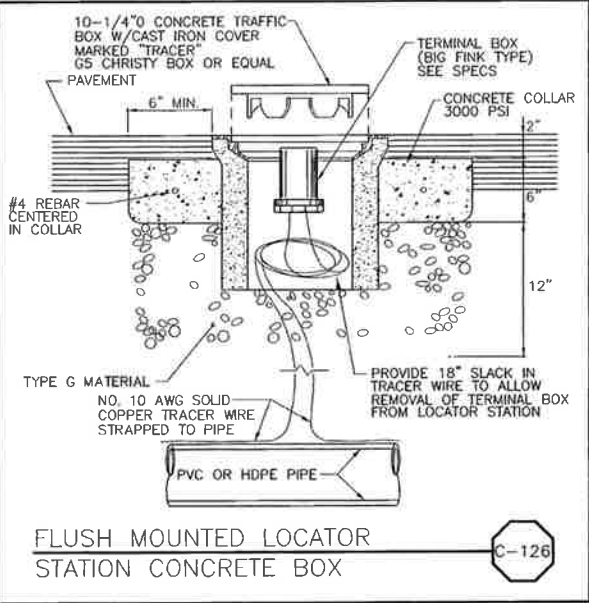
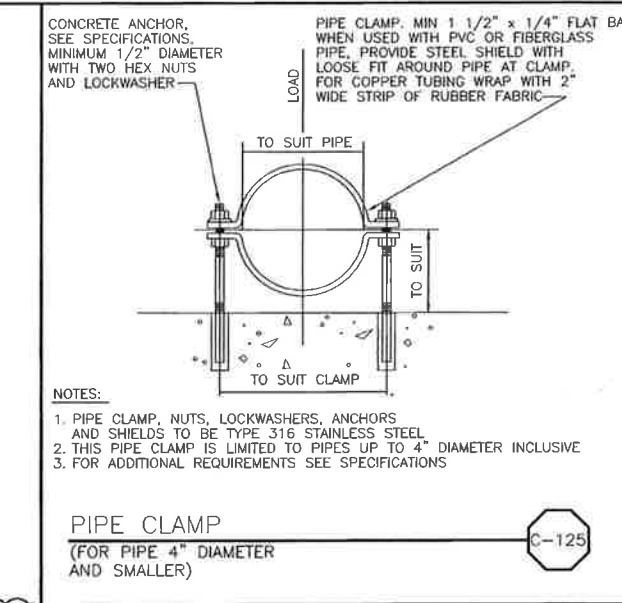
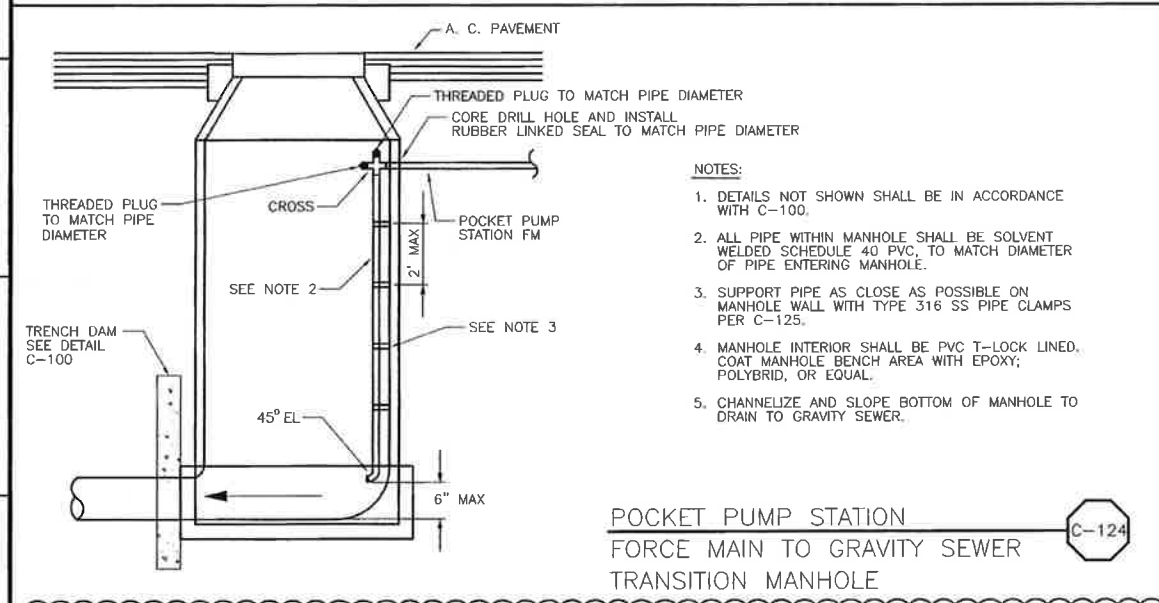
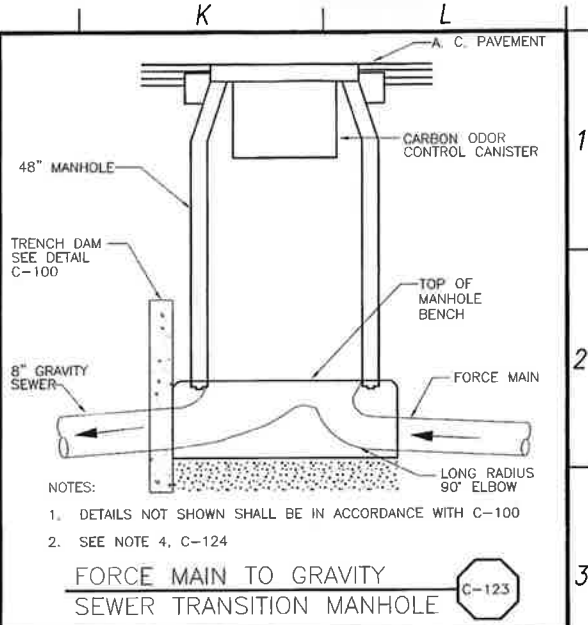
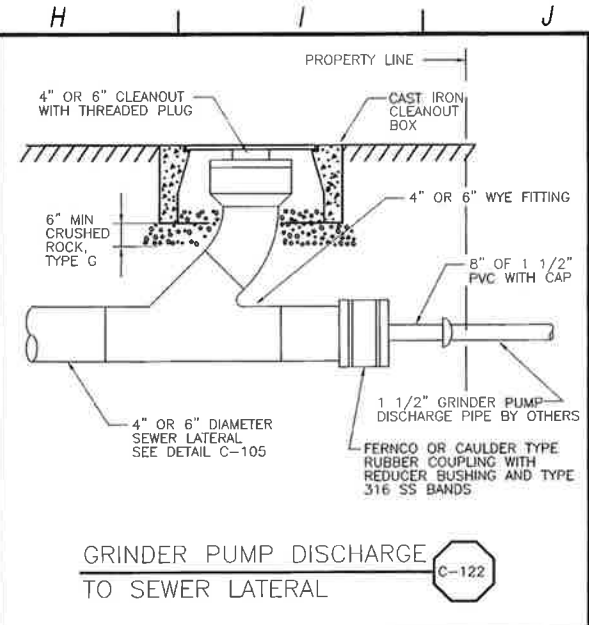
PROJECT NO. 42502-83120
 FILE NAME: C-GC-062
 SHEET NO.
C-GC-062

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- NOTES:**
- CASING SHALL BE SMOOTH PIPE.
 - CARRIER PIPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
 - CARRIER PIPE SHALL BE TESTED BEFORE SEALING ENDS OF PIPE.
 - SKIDS SHALL BE GREASED TO FACILITATE CARRIER PIPE INSTALLATION.
 - SEE SPECIFICATION SECTION 02151 BORING AND JACKING FOR ADDITIONAL REQUIREMENTS.
 - CASING I.D. SHALL BE PIPE BELL O.D. PLUS 12" MIN, BUT NOT LESS THAN 20".
 - PROVIDE THREADED GROUT PORTS IN CASING TO ENABLE PRESSURE GROUTING. SEAL WITH THREADED CAST IRON OR STEEL PLUGS UPON COMPLETION.
 - BLOCK CARRIER PIPE TO PREVENT PIPE FLOTATION OR DISTURBANCE DURING SAND BACKFILLING.
 - IF TRENCHLESS SECTION INCLUDES CONDUITS, ADD 12" TO SUM OF CARRIER PIPE BELL OD AND LARGEST CONDUIT BELL OD TO ESTABLISH CASING I.D.

CASING SIZE	CASING WALL THICKNESS (t)	SKID SIZE
20", 22"	1/2" MIN	4" x 4"
24"	1/2" MIN	4" x 4"
26"	1/2" MIN	4" x 4"
30"	1/2" MIN	4" x 4"
34"	1/2" MIN	4" x 4"
40"	5/8" MIN	6" x 6"
44"	5/8" MIN	6" x 6"

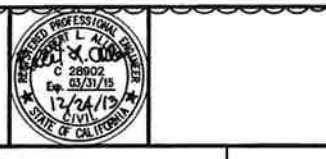
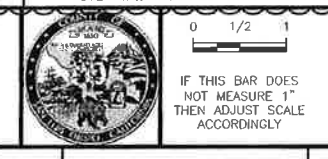


- NOTES:**
- SEE ALSO C-119, AND C-622. SIMILAR MATERIALS.
 - ENCLOSURE TYPE: ABOVE GROUND AIR RELEASE VALVE.
 - ENCLOSURE DOOR FRAME MATERIAL: 1-3/4"x1-3/4"x3/16" ANGLE IRON.
 - ENCLOSURE EXPANDED METAL SCREEN IS NO.9 BY 1-1/2" WELDED EVERY 6".
 - ENCLOSURE DOORS ARE INTERNAL STAINLESS STEEL HINGES.
 - ENCLOSURE (4) FOUNDATION ANCHOR PLATES 3/8" WITH 5/8" DIA HOLE.
 - ENCLOSURE ALL PARTS TO BE SAND BLASTED TO SSPC-5 W/METAL BLAST, W/A 3-4 MILS ANGULAR PROFILE.
 - ENCLOSURE POWDER COATED HUNTER GREEN TO 6-8 MILS THICKNESS AFTER FABRICATION.
 - ENCLOSURE ALL WELDING DONE PER AWS SPECIFICATIONS.
 - ENCLOSURE MANUFACTURER: PLACER WATERWORKS, MODEL PW/SJARV-33x33x66, OR EQUAL.
 - FOR CAV/SP AND CAV AT STA. 368+45, 368+08.72, AND 430+79, DELETE 4" CARBON FILTER AND EXTEND VENT DISCHARGE TO ARV VAULT WITH 4" GALV STL PIPE WRAPPED WITH PVC WHERE BURIED.

REV. NO.	DATE	DRWN	CHKD	REMARKS
12/24/13	LLB	RLA	RFI 155 - CORRECT PIPE SLOPE	
12/17/13	LLB	RLA	RFI 155 - ABOVE GROUND CAV DETAIL	

DESIGNED BY: BJC
 DRAWN BY: JAW
 CHECKED BY: MDM
 DATE: APRIL 2012

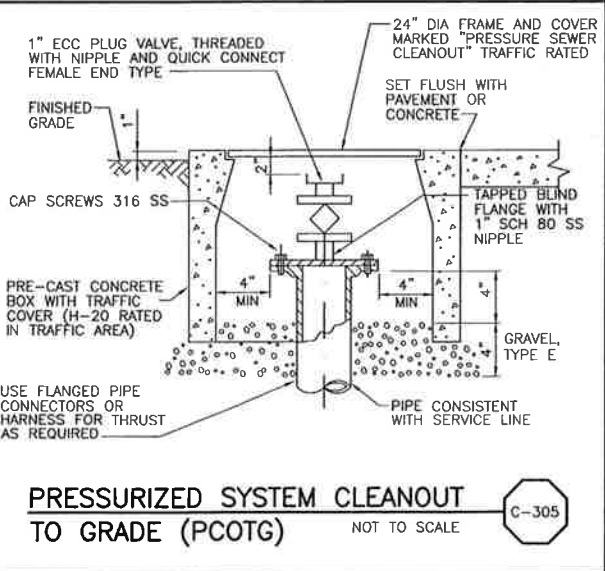
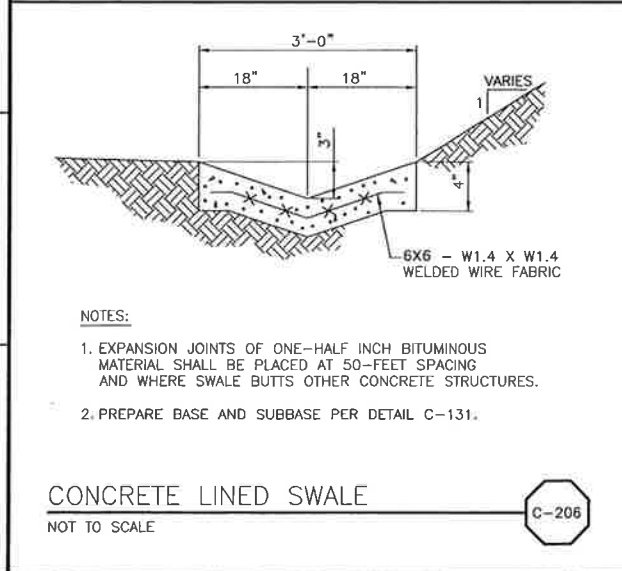
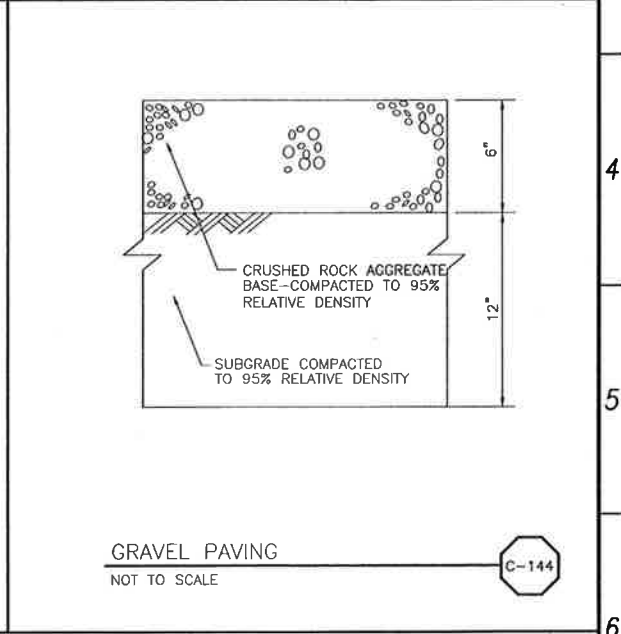
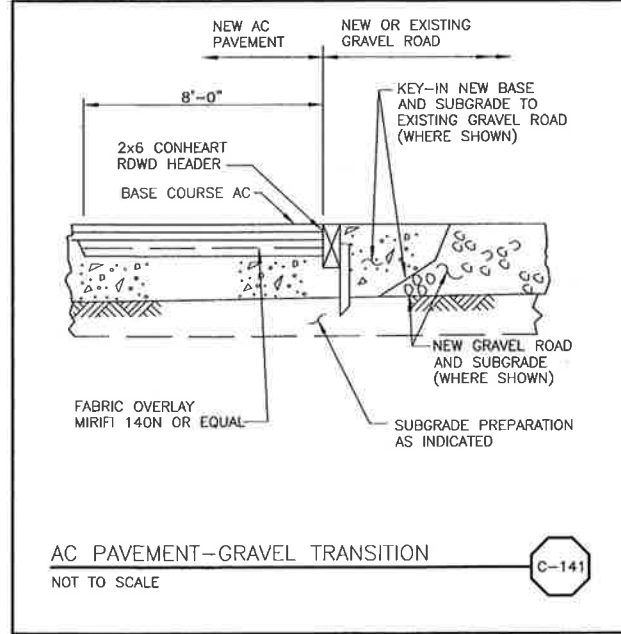
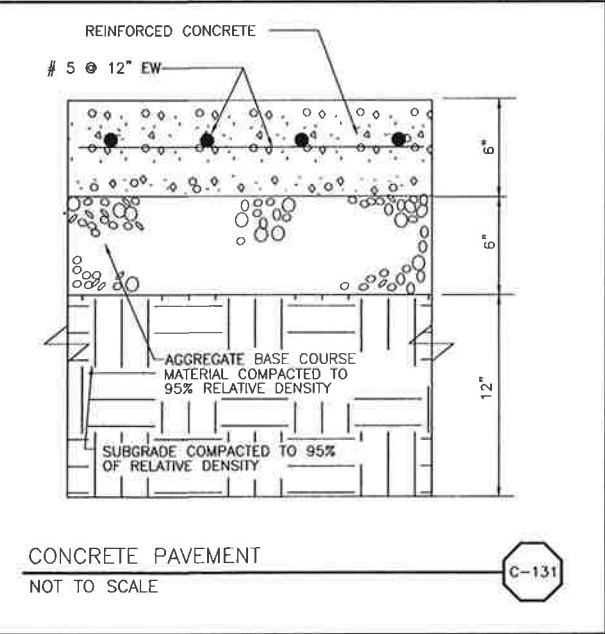
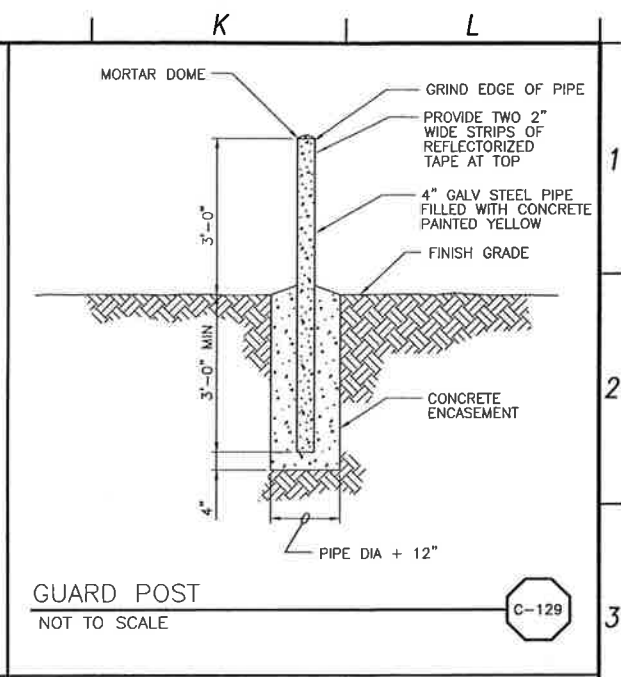
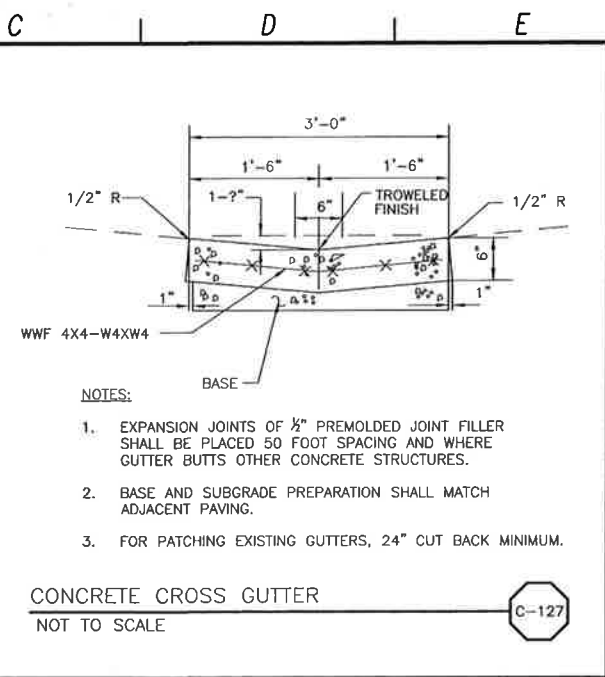
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 Tel: (916) 567-9900



LOS OSOS WASTEWATER COLLECTION SYSTEM
GENERAL CIVIL
STANDARD CIVIL DETAILS - 4

PROJECT No.42502-83120
 FILE NAME: C-GC-063
 SHEET NO.
C-GC-063.2

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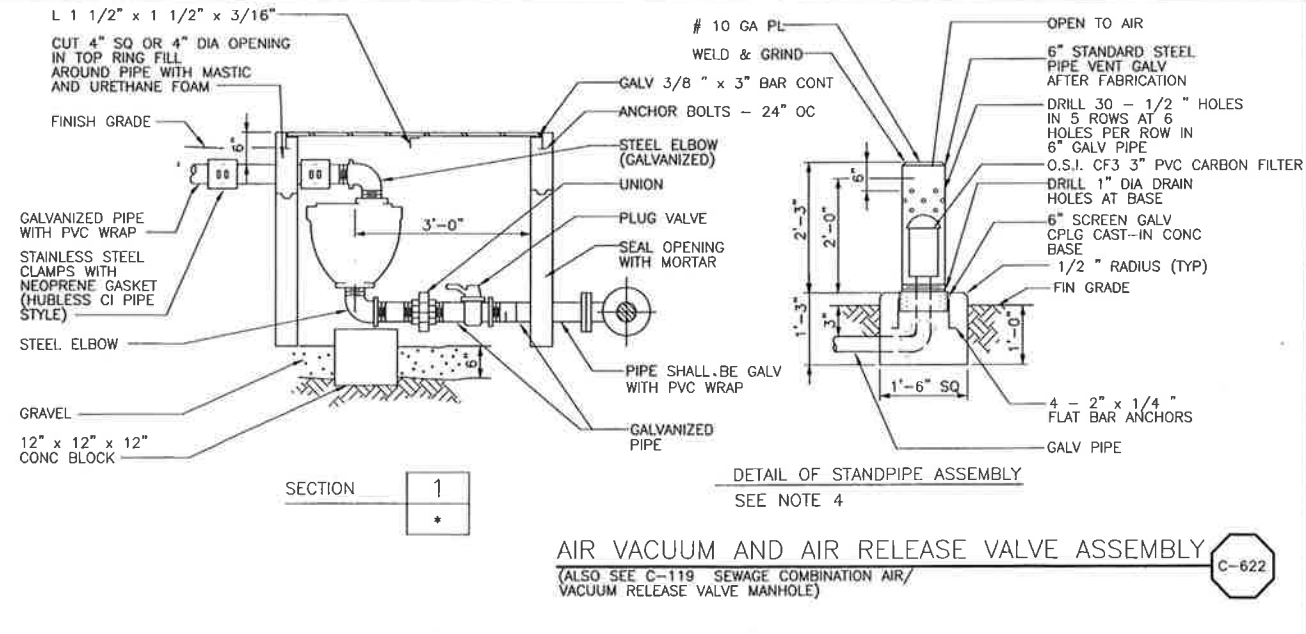
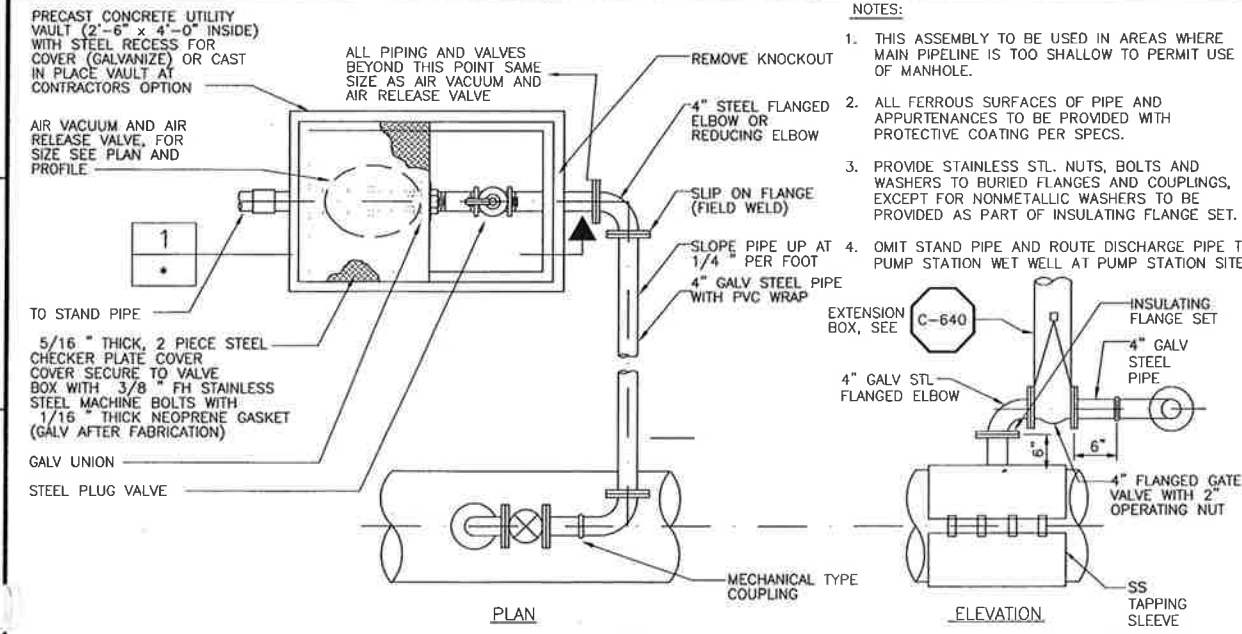
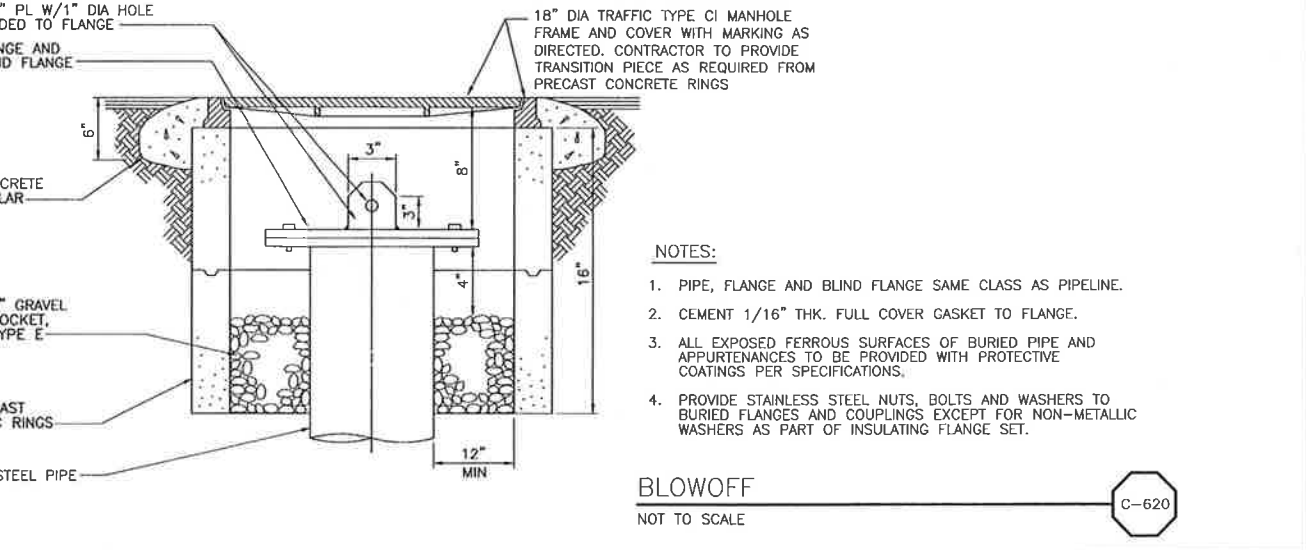
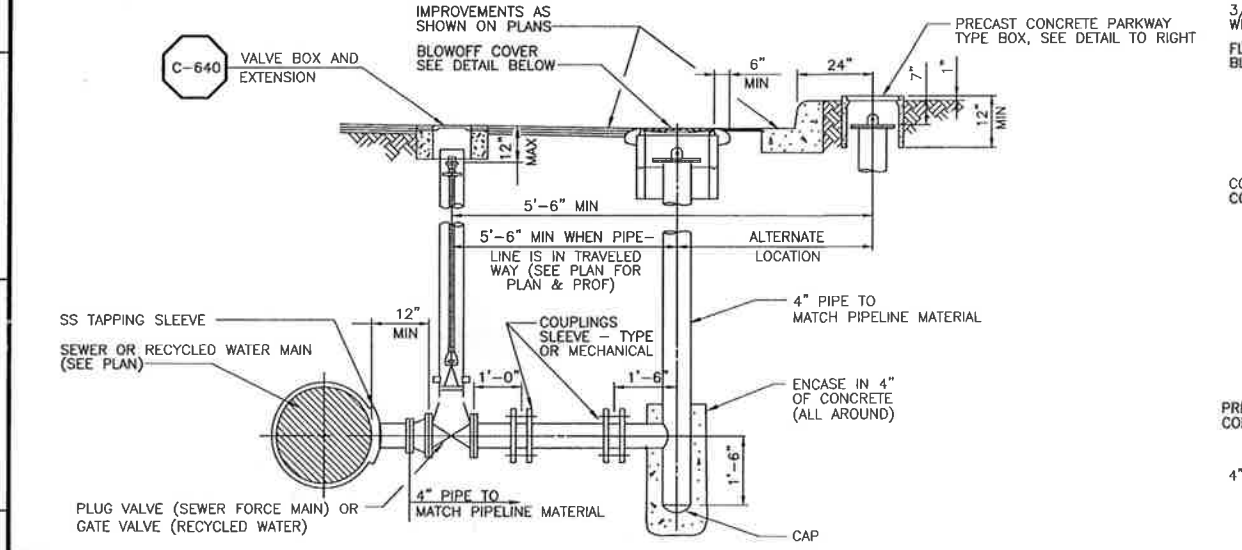
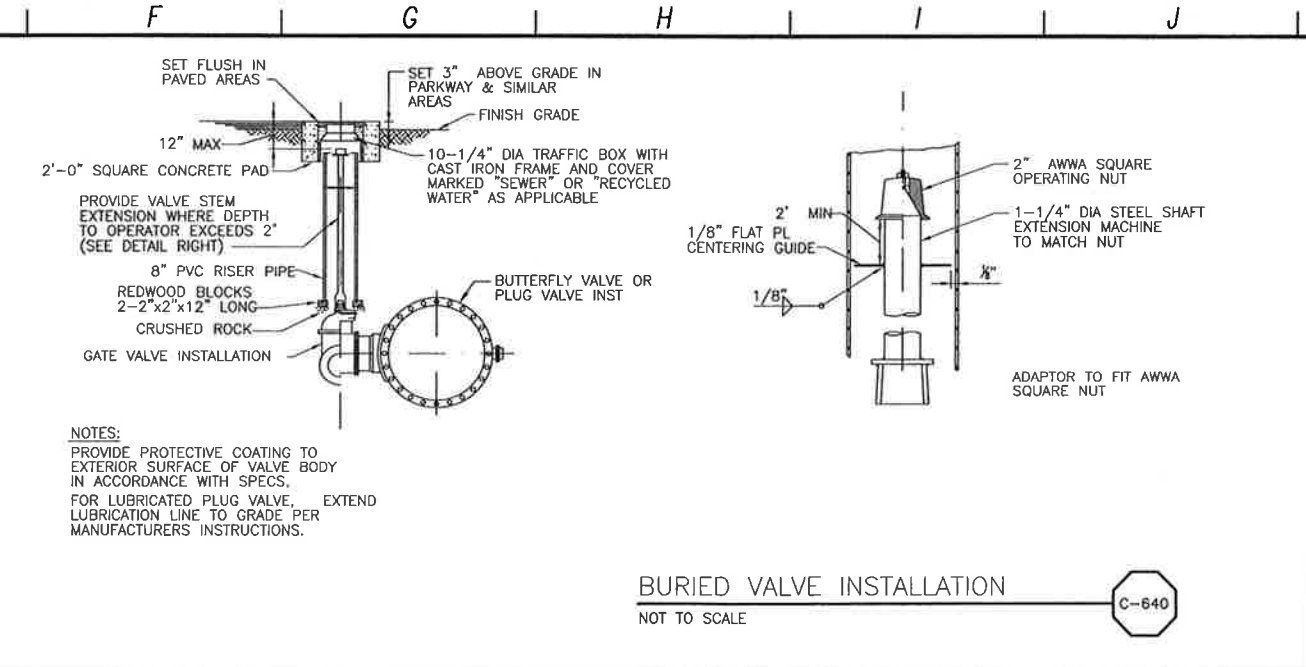
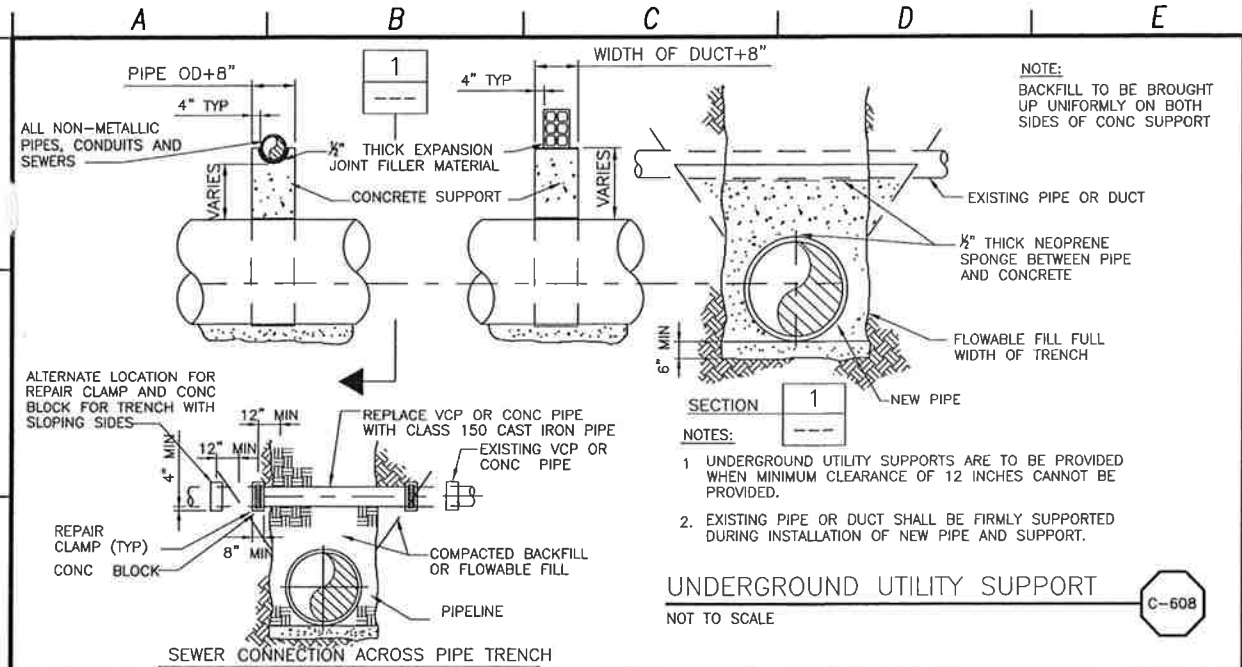
0 1/2 1
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LOS OSOS WASTEWATER COLLECTION SYSTEM
GENERAL CIVIL STANDARD CIVIL DETAILS - 5

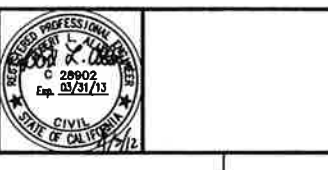
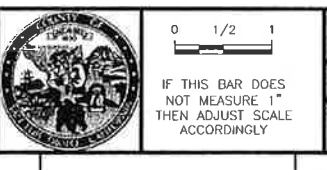
PROJECT NO. 42502-B3120
 FILE NAME: C-GC-064
 SHEET NO.
C-GC-064

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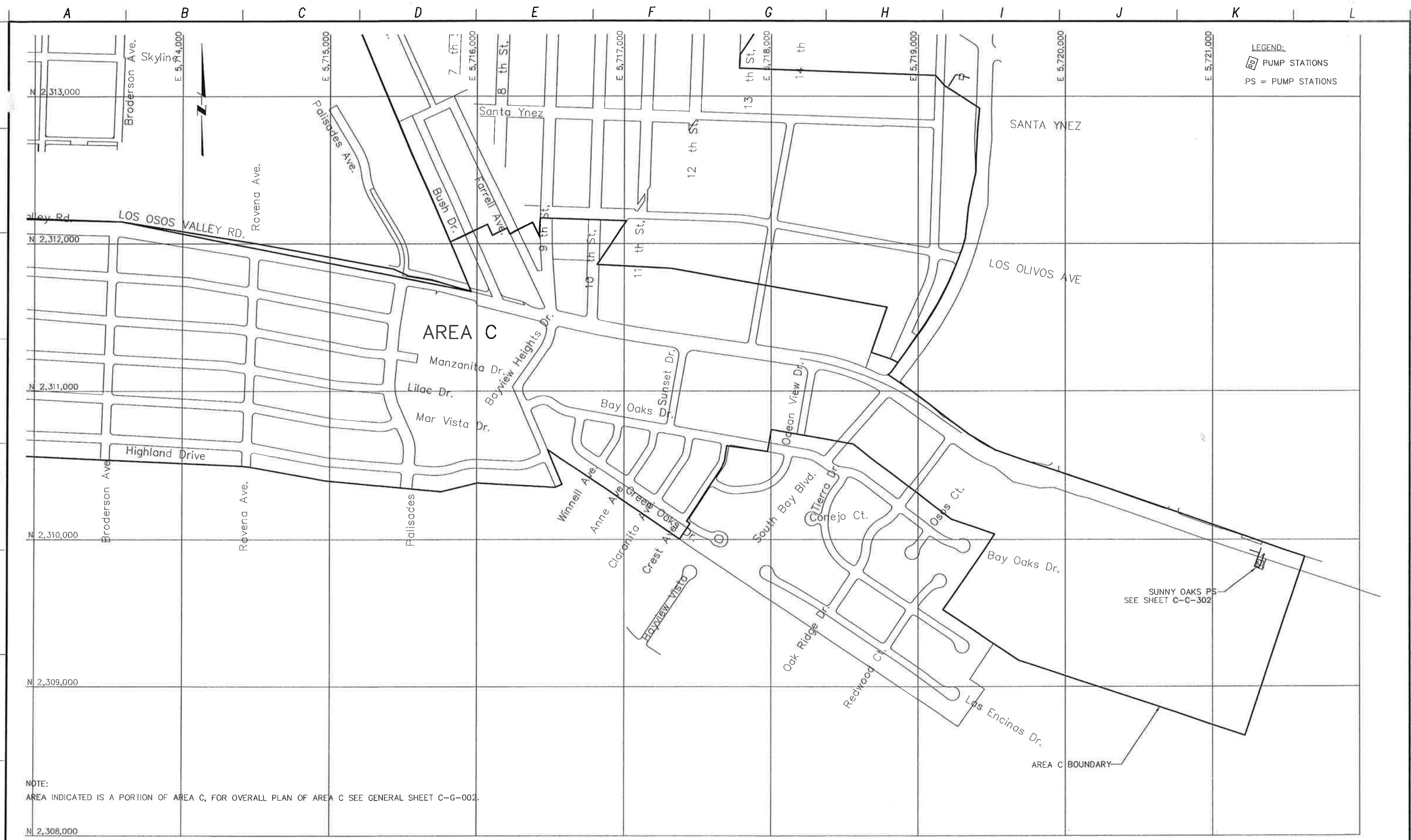
DESIGNED BY: BJC
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 CHECKED BY: MDM
 DATE: APRIL, 2012



LOS OSOS WASTEWATER COLLECTION SYSTEM
 GENERAL CIVIL
 STANDARD CIVIL DETAILS - 6

PROJECT NO. 42502-83120
 FILE NAME: C-GC-065
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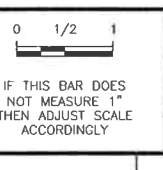
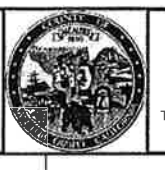


NOTE:
 AREA INDICATED IS A PORTION OF AREA C, FOR OVERALL PLAN OF AREA C SEE GENERAL SHEET C-G-002.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: MPH
 DRAWN BY: JAW
 CHECKED BY: CCA
 DATE: APRIL 2012

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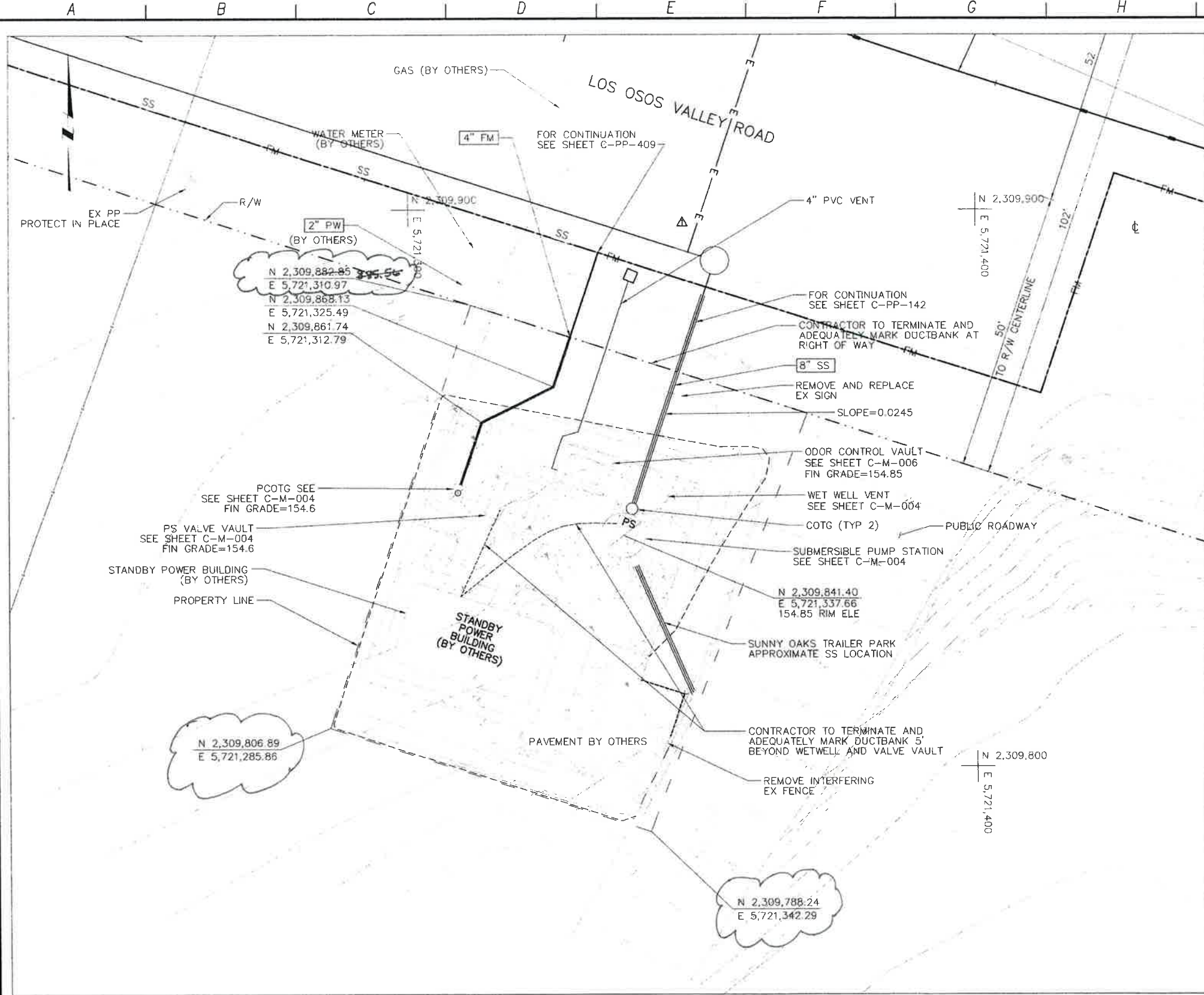


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LOS OSOS WASTEWATER COLLECTION SYSTEM
CIVIL
AREA C KEY PLAN

PROJECT NO. 42502-83120
 FILE NAME: C-C-301
 SHEET NO.
C-C-301

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- NOTES:**
1. LIDS AND VAULTS TO BE TRAFFIC RATED FOR H-20 LOADING
 2. COORDINATE ELECTRICAL DUCTBANK DEPTH AND LOCATION BEFORE INSTALLATION OF PROCESS PIPING. SEE SHEET C-PP-409.
 3. CONTRACTOR SHALL NOTIFY SUNNY OAKS MOBILE HOME PARK AT LEAST 30 DAYS IN ADVANCE BY US MAIL OF ANY CONSTRUCTION ACTIVITIES AT THE SUNNY OAKS PS SITE. CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED IN A MANNER TO MAINTAIN DRIVEWAY INGRESS AND EGRESS TO THE MOBILE HOME PARK AT ALL TIMES. THE CONTRACTORS ACCESS TO THE SITE SHALL BE DEVELOPED FROM LOS OSOS VALLEY ROAD AND SHALL NOT UTILIZE THE MOBILE HOME PARK DRIVEWAY.
 4. CONTRACTOR MAY TEMPORARILY REMOVE THE SUNNY OAKS MOBILE HOME PARK ENTRANCE SIGN AND ASSOCIATED LIGHTING FOR THE DURATION OF CONSTRUCTION ACTIVITIES. IF REMOVED, THE SIGN AND LIGHTING SHALL BE RESTORED TO ORIGINAL CONDITION AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED.
 5. ALL SURFACE IMPROVEMENTS SHOWN HERE NOT ASSOCIATED WITH BURIED PUMP STATION AND VALVE VAULT (AND NOT SHOWN ON C-M-004) ARE TO BE CONSTRUCTED BY OTHERS AND ARE ONLY SHOWN FOR REFERENCE.
 6. REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUIT AND MANHOLES ALONG PIPELINE.

SUNNY OAKS PUMP STATION
PLAN
 1" = 10'
 5 0 10

REV NO	DATE	DRWN	CHKD	REMARKS
1	6/29/12	LLB	MDM	UPDATED PROPERTY LINES
2	7/20/12	LLB	RLA	CONFORMED
3	5/24/12	LLB	RLA	ADDENDUM #2

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 DRAWN BY: JAW
 CHECKED BY: CCA
 DATE: APRIL 2012

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1/2 1
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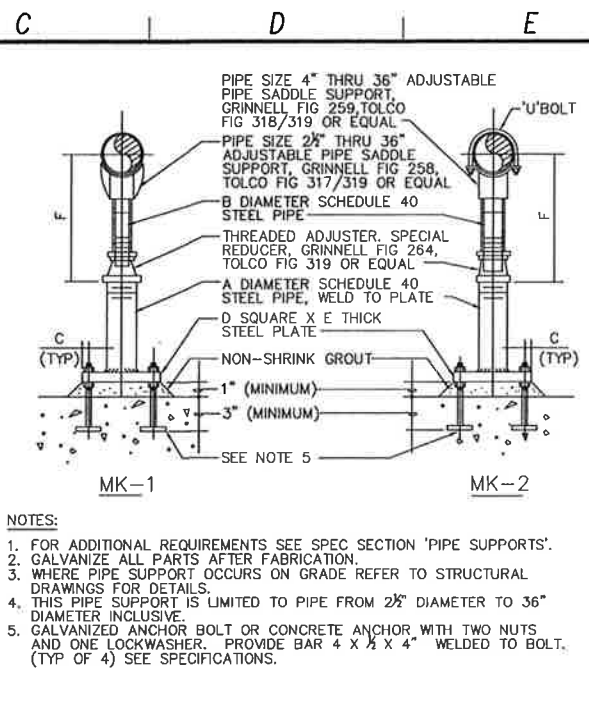
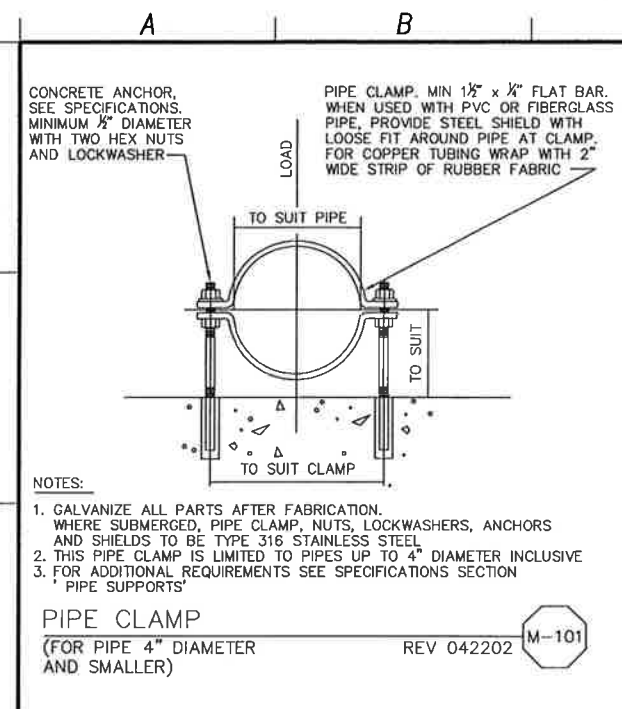
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LOS OSOS WASTEWATER COLLECTION SYSTEM
CIVIL
 SUNNY OAKS PS & STANDBY POWER
 SITE PLAN

PROJECT NO. 42502-83120
 FILE NAME: C-C-302
 SHEET NO.
C-C-302

C-C-302

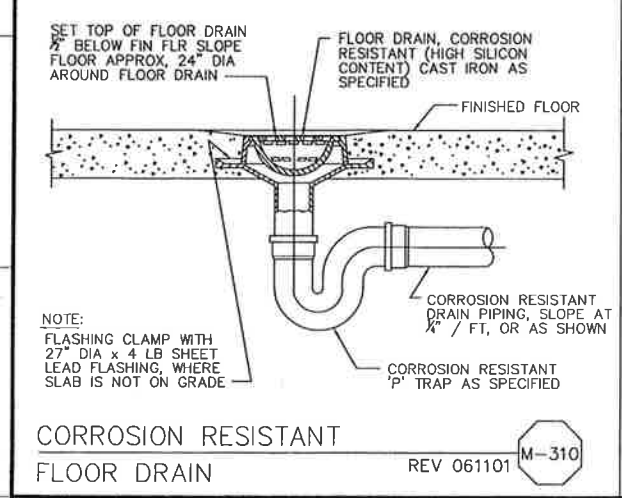
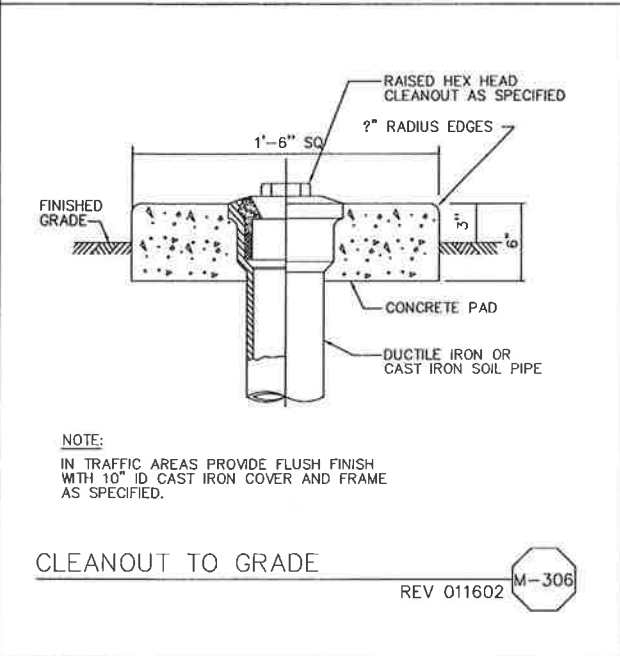
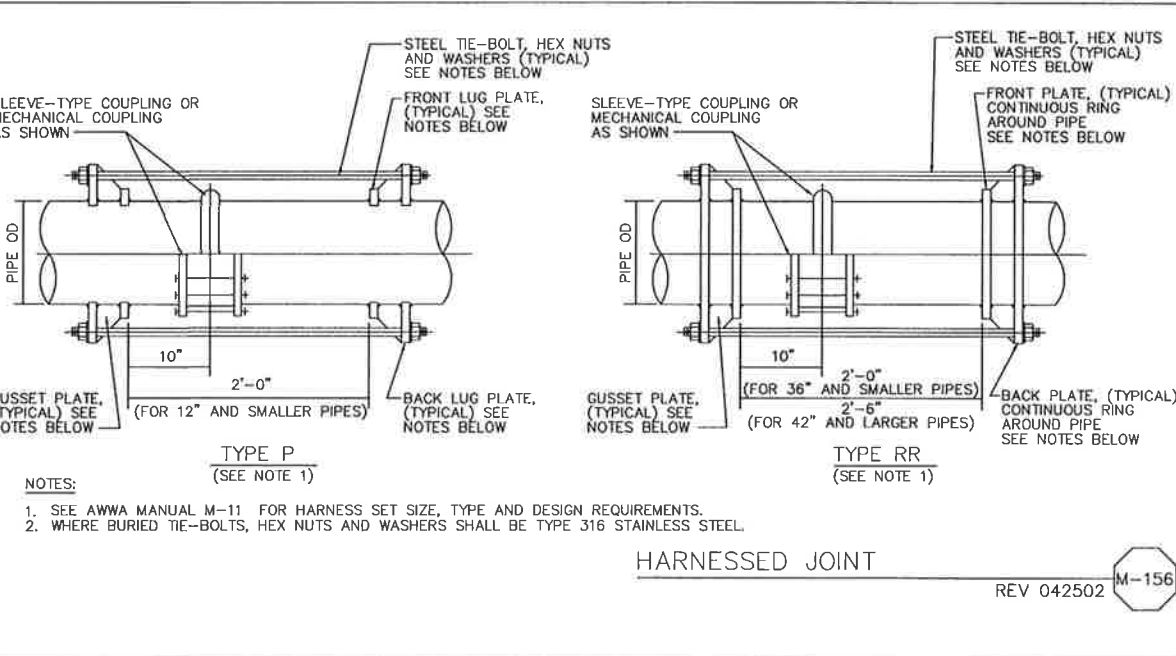
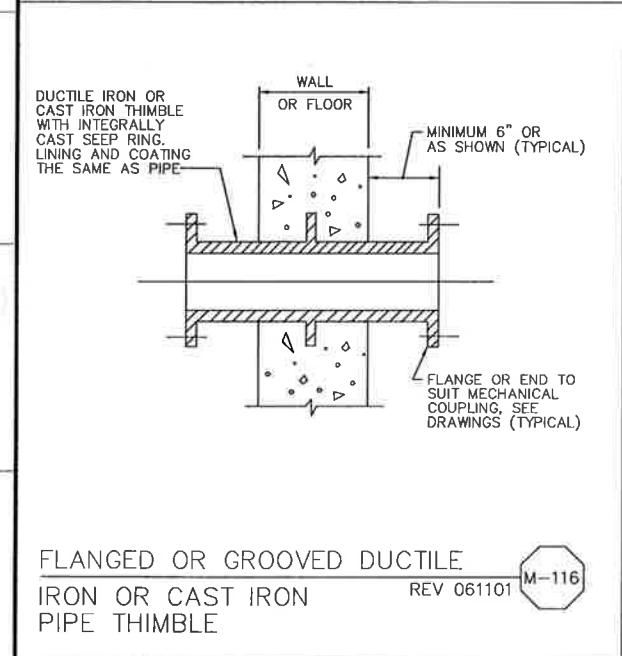
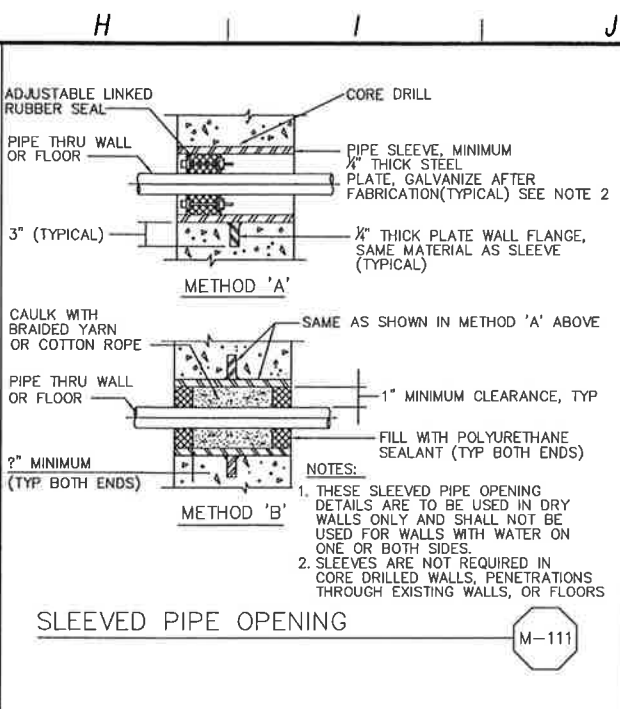
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DIMENSIONS IN INCHES

NOMINAL PIPE SIZE	A	B	C	D	E	F (APPROX)	
						(MINIMUM)	(MAXIMUM)
2 1/2	2	1 1/2	1	6	3/8	7	11 1/2
3	2	1 1/2	1	6	3/8	7 1/8	11 3/8
3 1/2	2	1 1/2	1	6	3/8	7 1/4	12
4	3	*2 1/2	1 1/2	7 1/2	1/2	10	14 1/2
6	3	*2 1/2	1 1/2	7 1/2	1/2	11 3/8	16 1/8
8	3	*2 1/2	1 1/2	7 1/2	1/2	13 3/8	18 1/8
10	3	*2 1/2	1 1/2	7 1/2	1/2	14 3/8	19 1/8
12	3	*2 1/2	1 1/2	7 1/2	1/2	15 3/8	20 1/8
14	4	3	1 1/2	9	3/4	18 1/8	23 3/8
16	4	3	1 1/2	9	3/4	19 1/8	24 1/8
18	6	4	1 1/2	11	3/4	22 1/8	26 3/8
20	6	4	1 1/2	11	3/4	23 1/8	27 1/8
24	6	4	1 1/2	11	3/4	26 1/8	31
30	6	4	1 1/2	11	3/4	29 1/8	34 1/8
32	6	4	1 1/2	11	3/4	30 3/8	35 3/8
36	6	4	1 1/2	11	3/4	32 1/8	37 1/8

* SEE MANUFACTURER



DESIGNED BY: ALP

DRAWN BY: MAR

CHECKED BY: SBM

DATE: APRIL 2012

CDM Smith

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Sacramento, CA 95833
Tel: (916) 567-9900

0 1/2 1

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REGISTERED PROFESSIONAL ENGINEER
JAMES CORRY
C 051414
Exp. 06/30/17
CIVIL
STATE OF CALIFORNIA

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UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

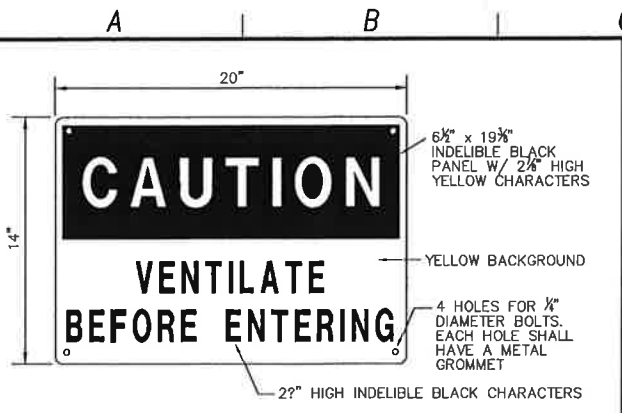
LOS OSOS WASTEWATER COLLECTION SYSTEM

MECHANICAL STANDARD DETAILS - 1

PROJECT NO. 42502-83120
FILE NAME: C-M-001
SHEET NO.
C-M-001

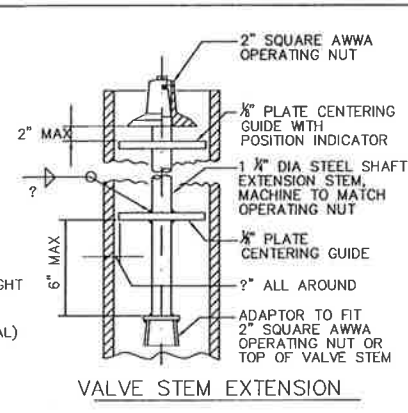
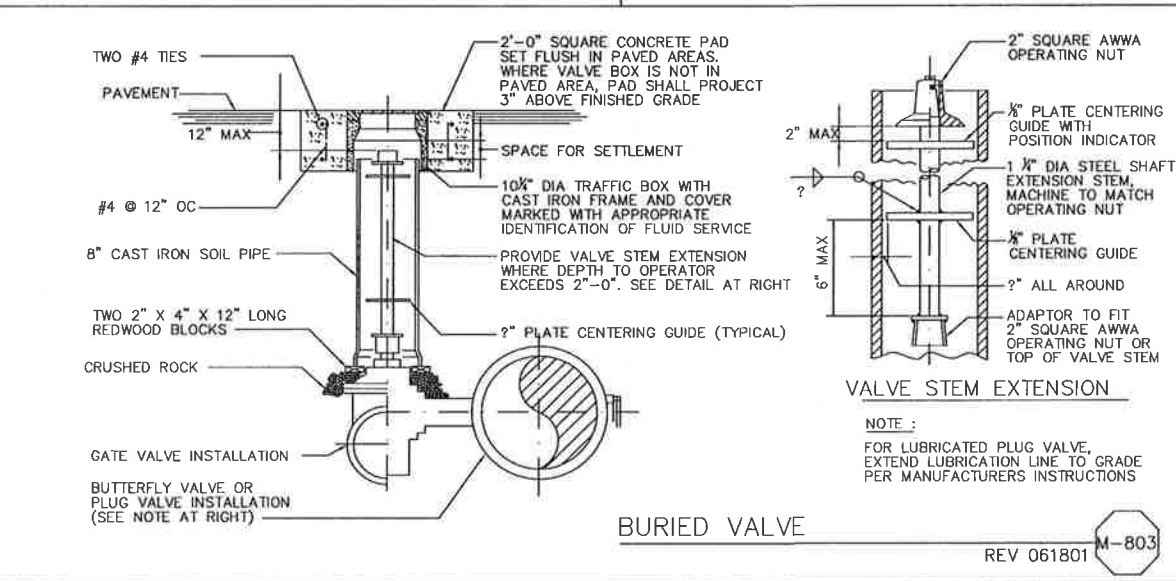
REV. NO.	DATE	DRWN	CHKD	REMARKS

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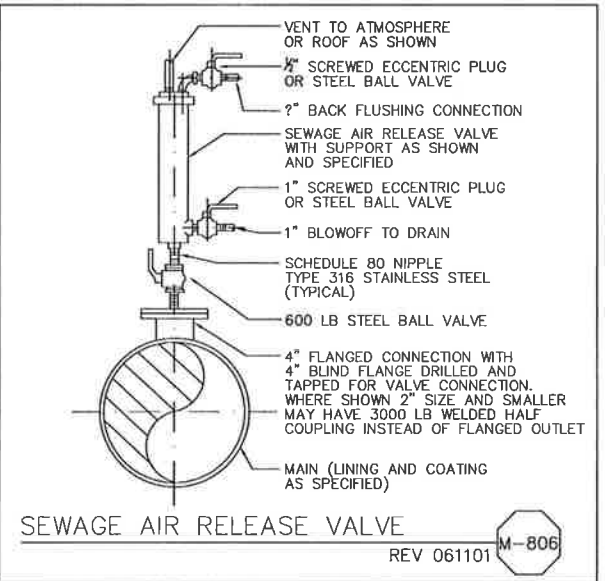


NOTES:
 1. WARNING SIGN TO BE ABLE TO BEND TO A 9" RADIUS.
 2. MATERIAL TO BE 0.060" THICK BUTYRATE OR EQUAL.
 3. SIGN TO BE ATTACHED IN CONSPICUOUS LOCATION AT ENTRY OF STRUCTURE.

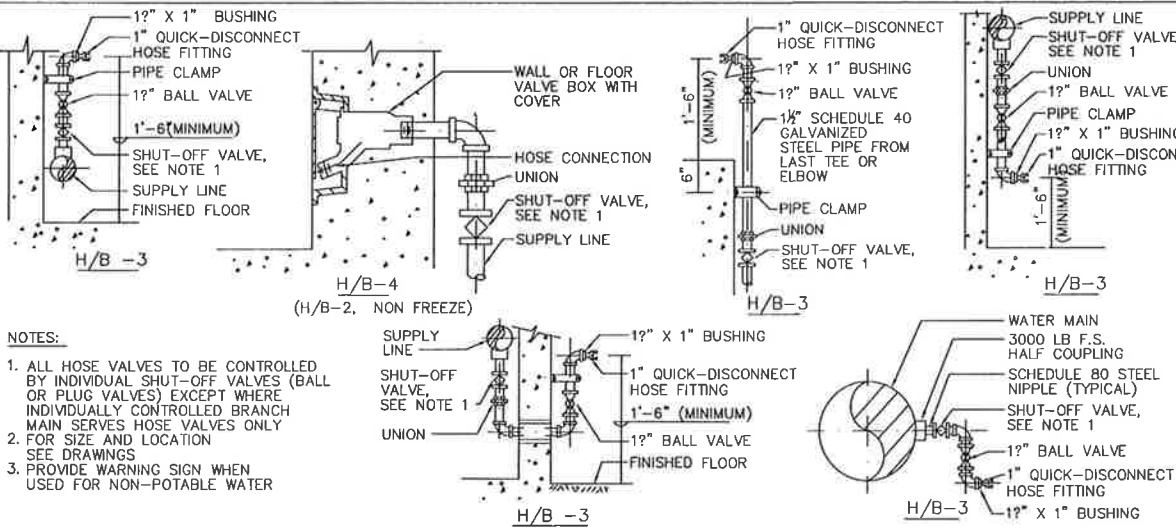
VENTILATION WARNING SIGN
 REV 062801 **M-509**



VALVE STEM EXTENSION
 NOTE:
 FOR LUBRICATED PLUG VALVE, EXTEND LUBRICATION LINE TO GRADE PER MANUFACTURERS INSTRUCTIONS
 BURIED VALVE
 REV 061801 **M-803**



SEWAGE AIR RELEASE VALVE
 REV 061101 **M-806**

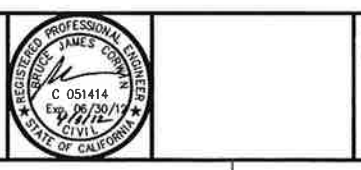
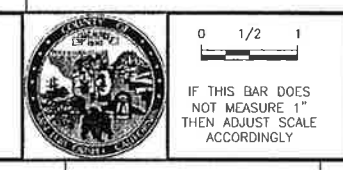


NOTES:
 1. ALL HOSE VALVES TO BE CONTROLLED BY INDIVIDUAL SHUT-OFF VALVES (BALL OR PLUG VALVES) EXCEPT WHERE INDIVIDUALLY CONTROLLED BRANCH MAIN SERVES HOSE VALVES ONLY
 2. FOR SIZE AND LOCATION SEE DRAWINGS
 3. PROVIDE WARNING SIGN WHEN USED FOR NON-POTABLE WATER

HOSE VALVES WITH QUICK-DISCONNECT
 REV 062001 **M-839**

REV. NO.	DATE	DRWN	CHKD	REMARKS

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 DRAWN BY: MAR
 CHECKED BY: SBM
 DATE: APRIL 2012
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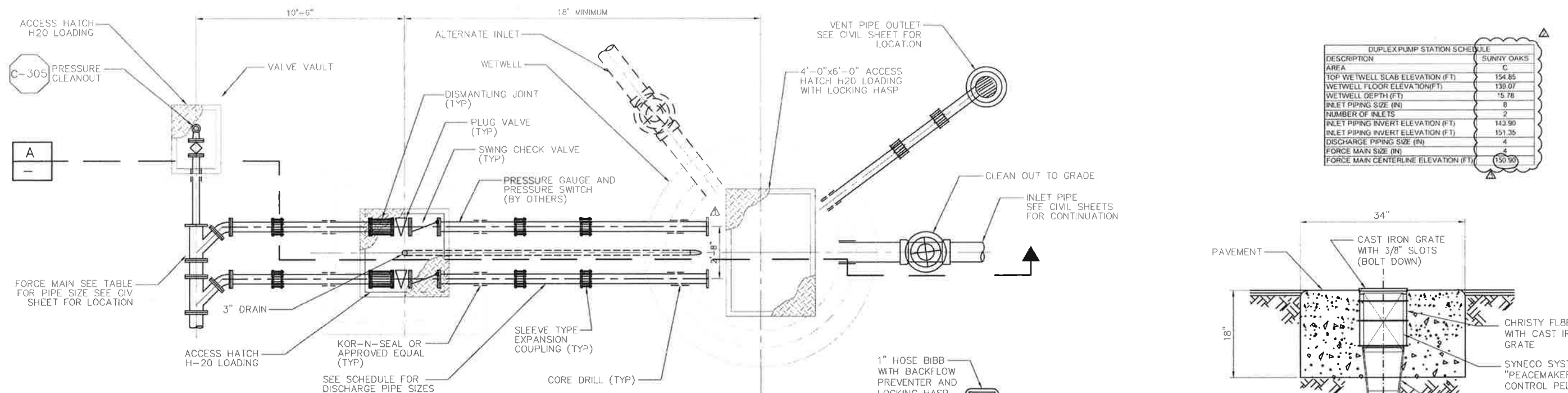


LOS OSOS WASTEWATER COLLECTION SYSTEM
MECHANICAL STANDARD DETAILS - 2

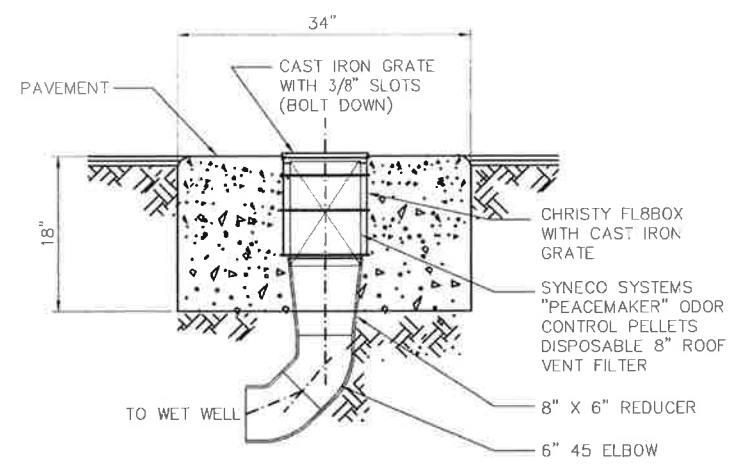
PROJECT NO. 42502-83120
 FILE NAME: C-M-002
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C-M-002

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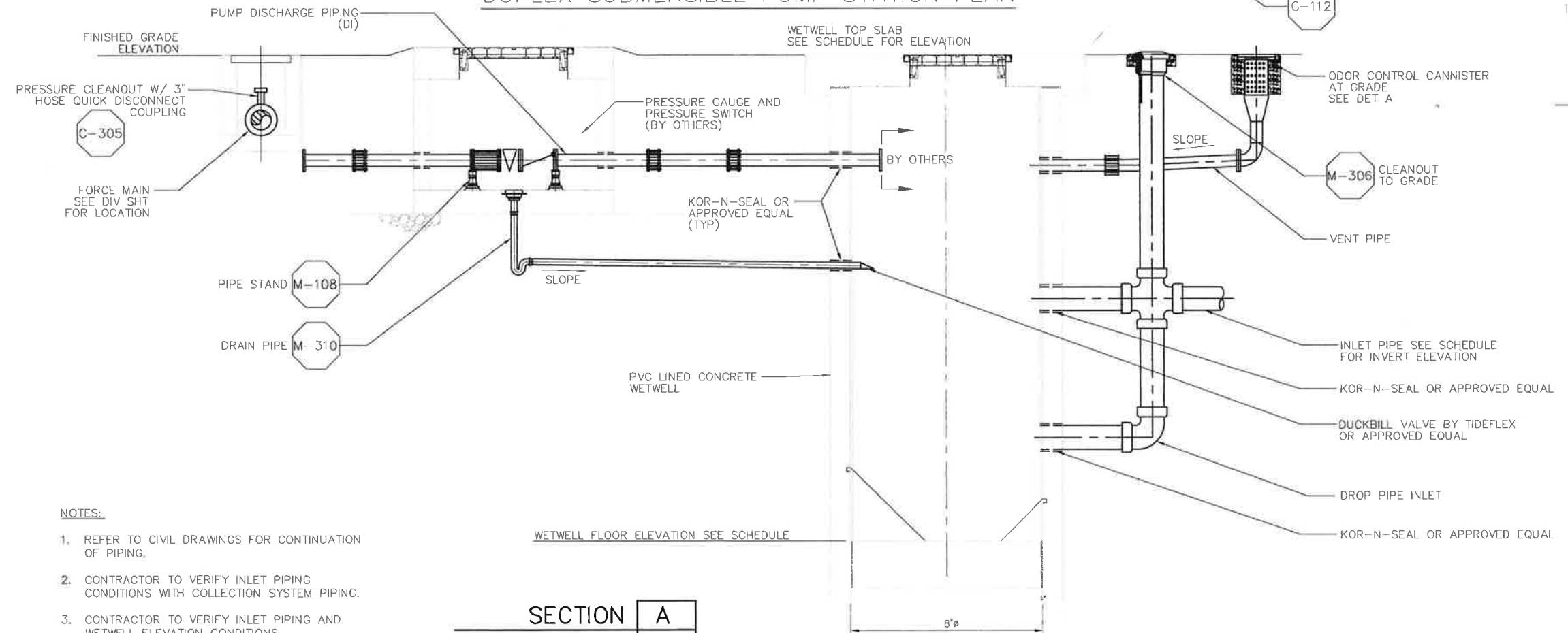


DUPLEX PUMP STATION SCHEDULE	
DESCRIPTION	SUNNY OAKS
AREA	C
TOP WETWELL SLAB ELEVATION (FT)	154.85
WETWELL FLOOR ELEVATION (FT)	139.07
WETWELL DEPTH (FT)	15.78
INLET PIPING SIZE (IN)	8
NUMBER OF INLETS	2
INLET PIPING INVERT ELEVATION (FT)	143.90
INLET PIPING INVERT ELEVATION (FT)	151.35
DISCHARGE PIPING SIZE (IN)	4
FORCE MAIN SIZE (IN)	4
FORCE MAIN CENTERLINE ELEVATION (FT)	150.90



ODOR CONTROL CANNISTER DETAIL A

DUPLEX SUBMERSIBLE PUMP STATION PLAN



SECTION A
DUPLEX PUMP STATION

- NOTES:
- REFER TO CIVIL DRAWINGS FOR CONTINUATION OF PIPING.
 - CONTRACTOR TO VERIFY INLET PIPING CONDITIONS WITH COLLECTION SYSTEM PIPING.
 - CONTRACTOR TO VERIFY INLET PIPING AND WETWELL ELEVATION CONDITIONS.

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	12/11/12	LLB	MPH	RNOC 15 - ENLARGE VALVE VAULT
2	9/14/12	LLB	RLA	ADD SECOND INLET INVERT EL, DEEPEN WETWELL
3	7/2012	LLB	MDM	CONFORMED
4	5/01/12	LLB	MDM	ADDENDUM #1

DESIGNED BY: MPH
 DRAWN BY: JAW
 CHECKED BY: CCA
 DATE: APRIL 2012

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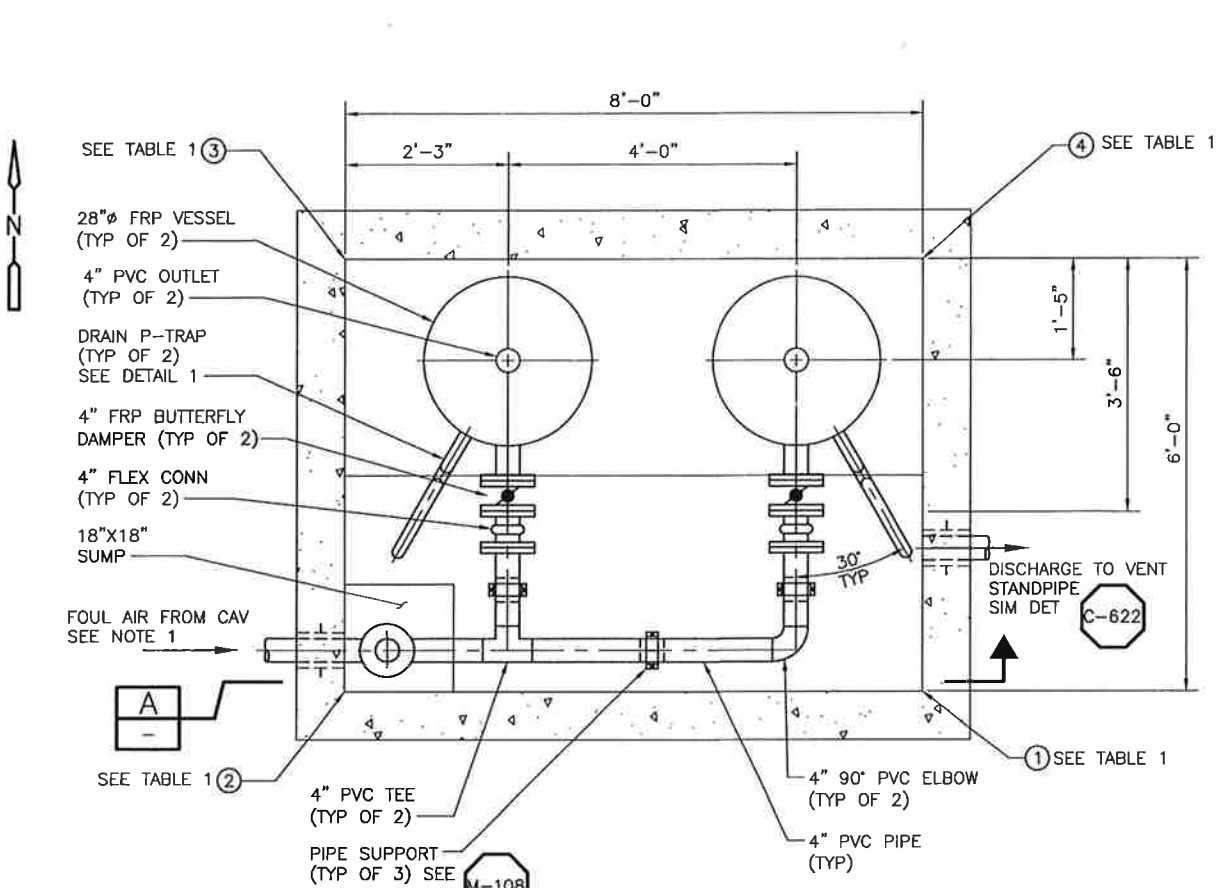
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LOS OSOS WASTEWATER COLLECTION SYSTEM
MECHANICAL SUBMERSIBLE PUMP STATIONS
 DUPLEX LAYOUT - PLAN & SECTION

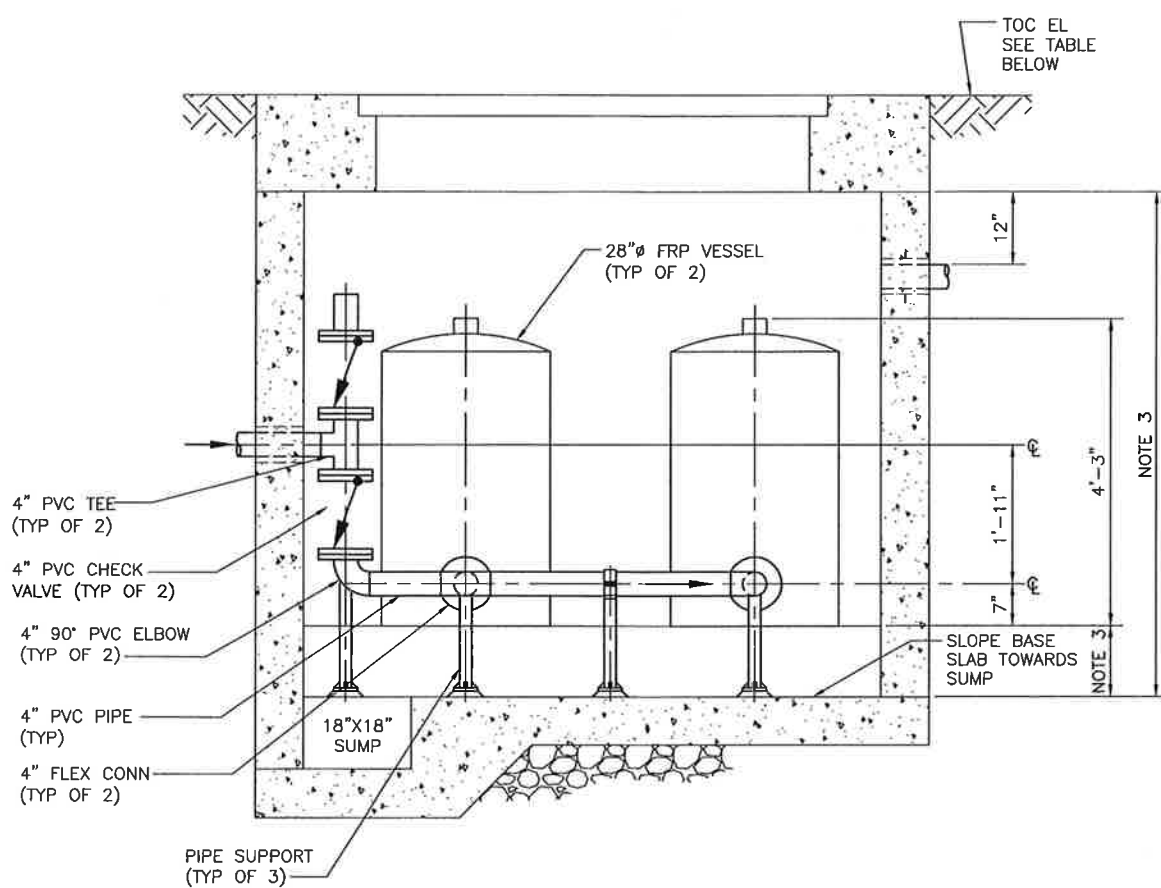
PROJECT NO. 42502-83120
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C-M-004.1

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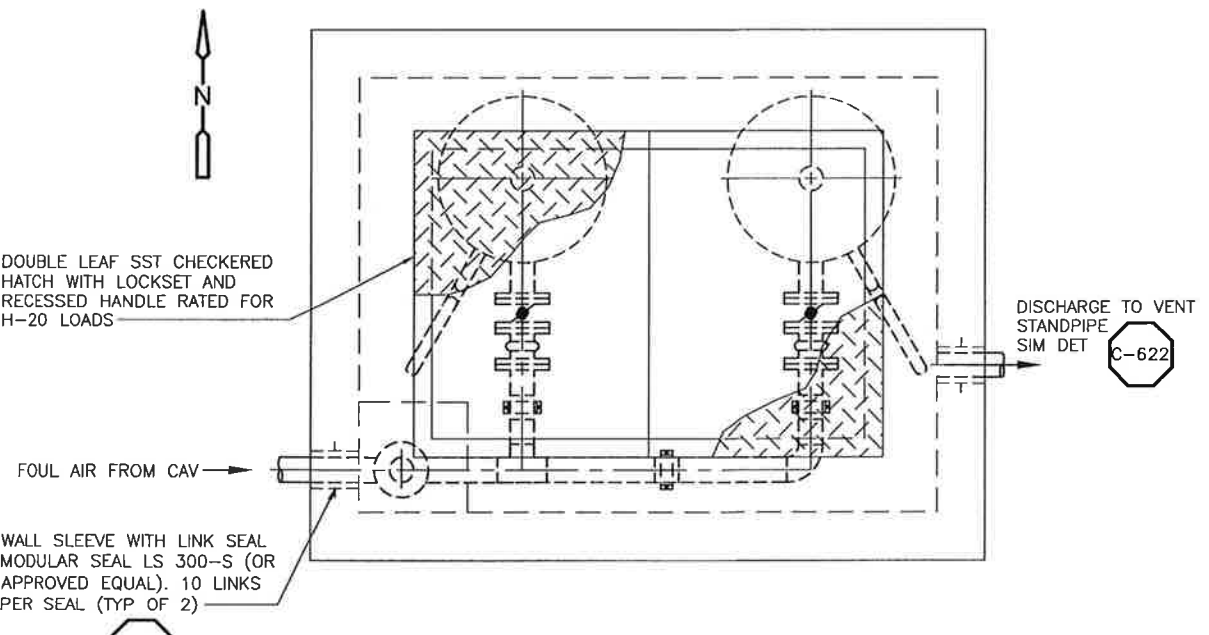


VAULT PLAN
3/4" = 1'-0"

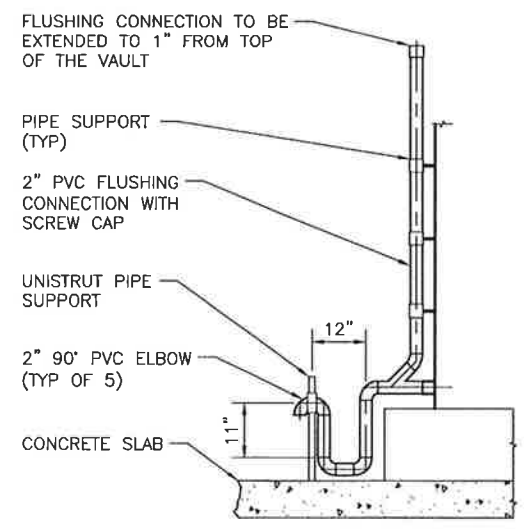


ODOR CONTROL VAULT SECTION A
SCALE: 3/4" = 1'

- NOTES:**
1. CONTRACTOR SHALL CORE PRECAST VAULT FOR PIPE PENETRATIONS.
 2. ALL PVC PIPE SHALL BE SCHEDULE 40.
 3. SEE SHEET C-S-013 FOR DIMENSIONS.



VAULT TOP PLAN
3/4" = 1'



DRAIN DETAIL 1
SCALE: NONE

CAV STA	①	②	③	④	TOC EL	SHT NO.
368+45	N 2310500.17 E 5719505.20	N 2310503.09 E 5719497.75	N 2310508.67 E 5719499.94	N 2310505.76 E 5719507.39	171.0	C-PP-407
388+00	N 2309849.14 E 5721333.67	N 2309851.65 E 5721326.07	N 2309857.35 E 5721327.96	N 2309854.84 E 5721335.55	154.85	C-PP-409
430+79	N 2308564.13 E 5725325.94	N 2308566.73 E 5725318.38	N 2308572.41 E 5725320.33	N 2308569.80 E 5725327.89	120.2	C-PP-413

ODOR CONTROL VAULT LOCATION TABLE 1

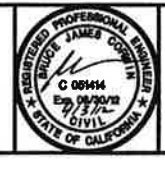
REV. NO.	DATE	DRWN	CHKD	REMARKS

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 DATE: APRIL 2012

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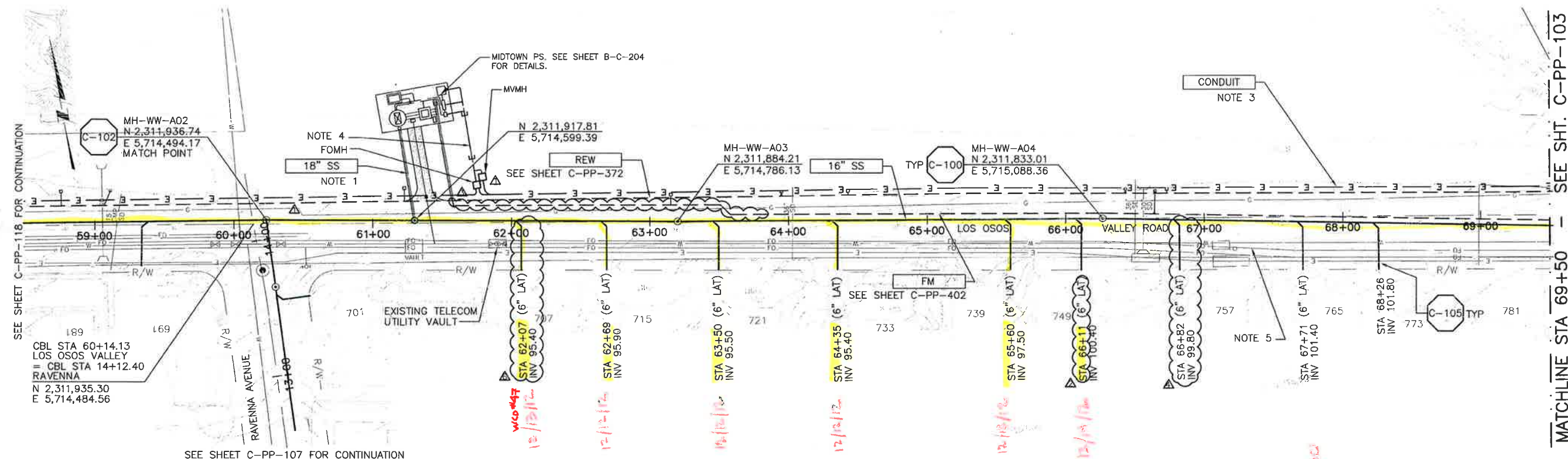
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LOS OSOS WASTEWATER COLLECTION SYSTEM
FM/CAV
ODOR CONTROL SYSTEM VAULT PLANS, SECTION, AND DETAILS

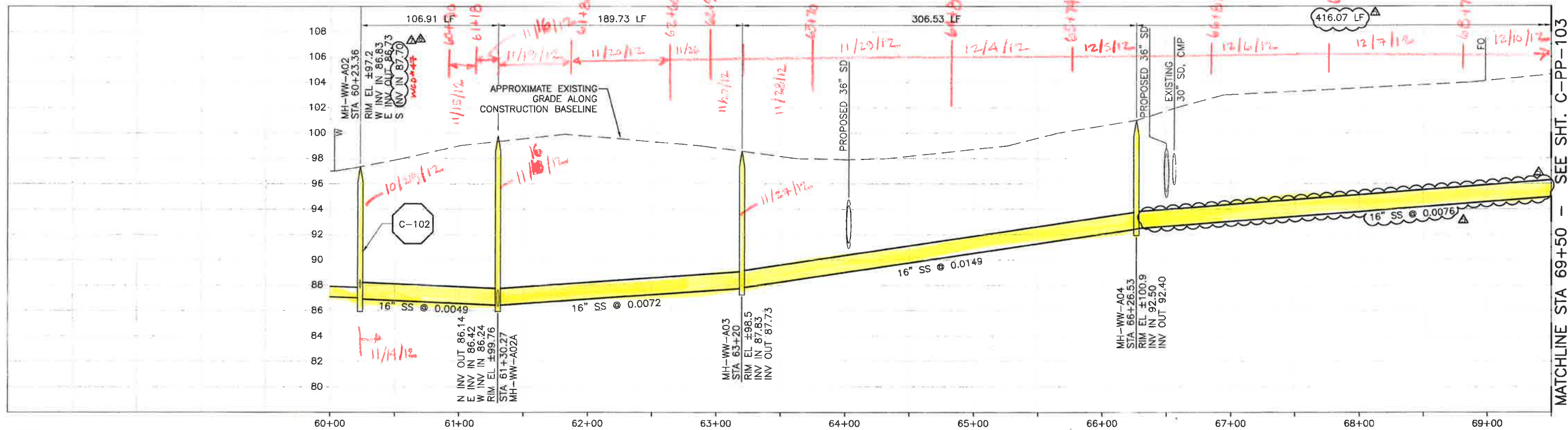
PROJECT NO. 42502-B3120
 FILE NAME: C-M-006
 SHEET NO.
C-M-006

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A B C D E F G H I J K L



PLAN ON RAVENNA AVENUE AND LOS OSOS VALLEY ROAD



PROFILE ON LOS OSOS VALLEY ROAD

- CONSTRUCTION BASELINE STATION
- NOTES:
- SEE SHEET B-C-204 FOR DETAIL.
 - NOMINAL FORCEMAIN PIPE SIZE CALLOUT IS FOR PVC PIPE MATERIAL. IF HDPE IS UTILIZED, NOMINAL PIPE SIZE SHALL BE 18".
 - REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.
 - TERMINATE CONDUITS APPROXIMATELY 60 FT NORTH OF LOS OSOS VALLEY ROAD.
 - MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT MANHOLES.

REV. NO.	DATE	DRWN	CHKD	REMARKS
2/06/13	LLB	RLA	RFI 43 - CORRECT MH LOCATION	
1/30/13	LLB	RLA	RFI 43 - LOWER SEWER TO CLEAR FO	
1/10/13	LLB	RLA	RNOC 16 - LATERAL RELOCATION	
12/12/12	LLB	RLA	RFI 30 LOWER SEWER	
12/05/12	LLB	RLA	RNOC 14 - LATERAL RELOCATION	

DESIGNED BY:	KS
DRAWN BY:	RKU
CHECKED BY:	RLA
DATE:	APRIL 2012

CDM Smith
 2286 Gateway Oaks Drive, Suite 240
 Sacramento, CA 95833
 Tel (916) 567-9900

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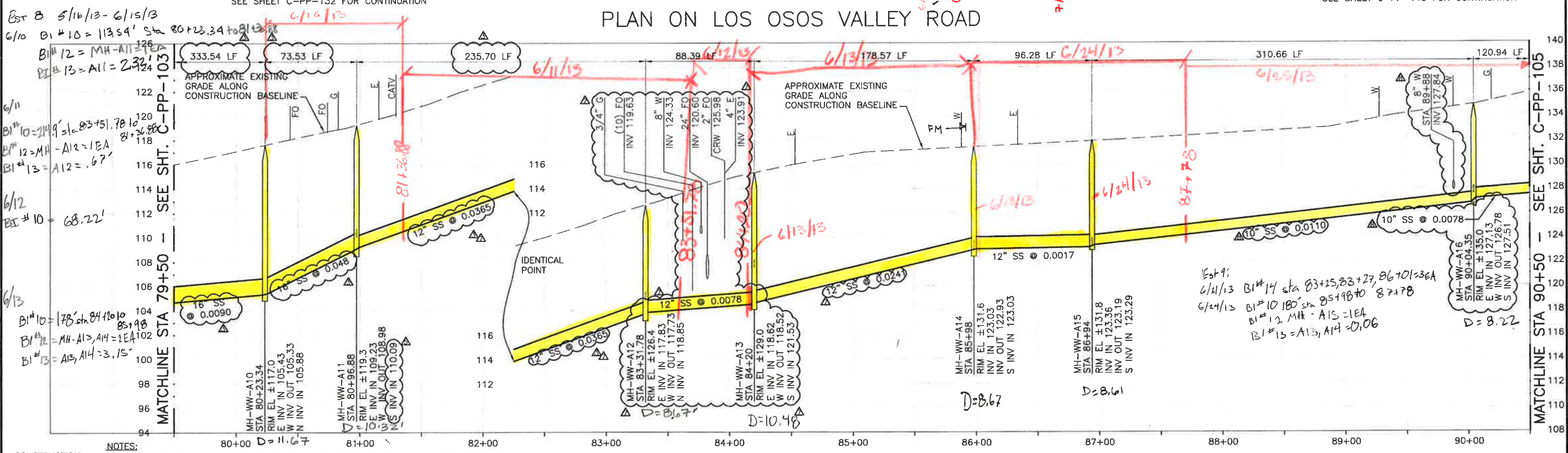
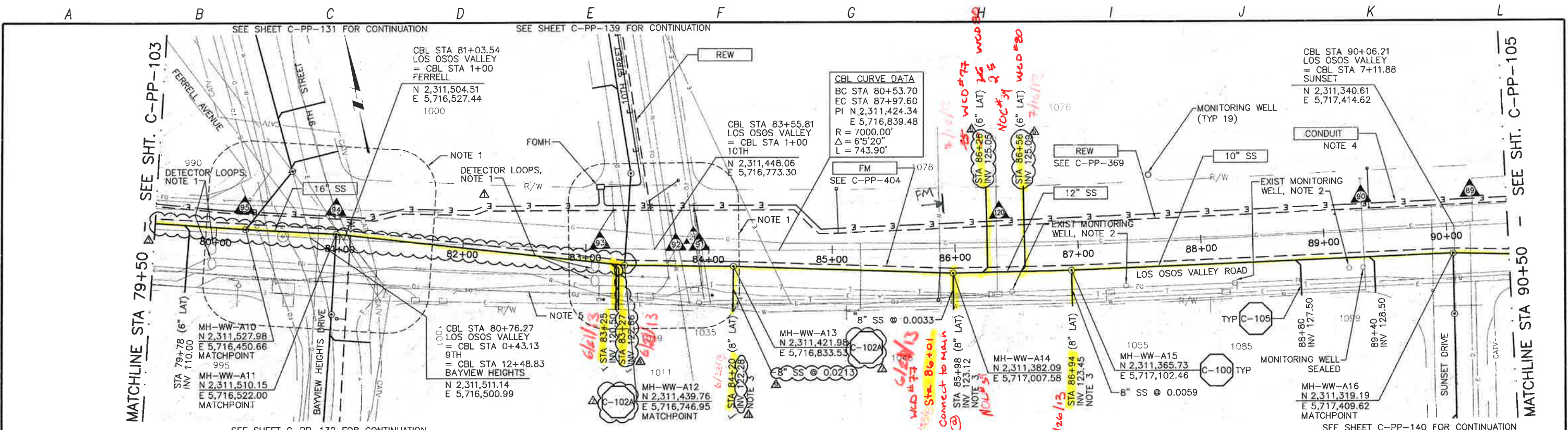
PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA
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 Exp. 03/31/13
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LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE
 LOS OSOS - 60+23.36 TO 69+50

PROJECT NO. 42502-83120
 FILE NAME: C-PP-102
 SHEET NO.
 C-PP-102.6

SCALE:
 HORZ: 1"=40'
 VERT: 1"=4'



CONSTRUCTION BASELINE STATION

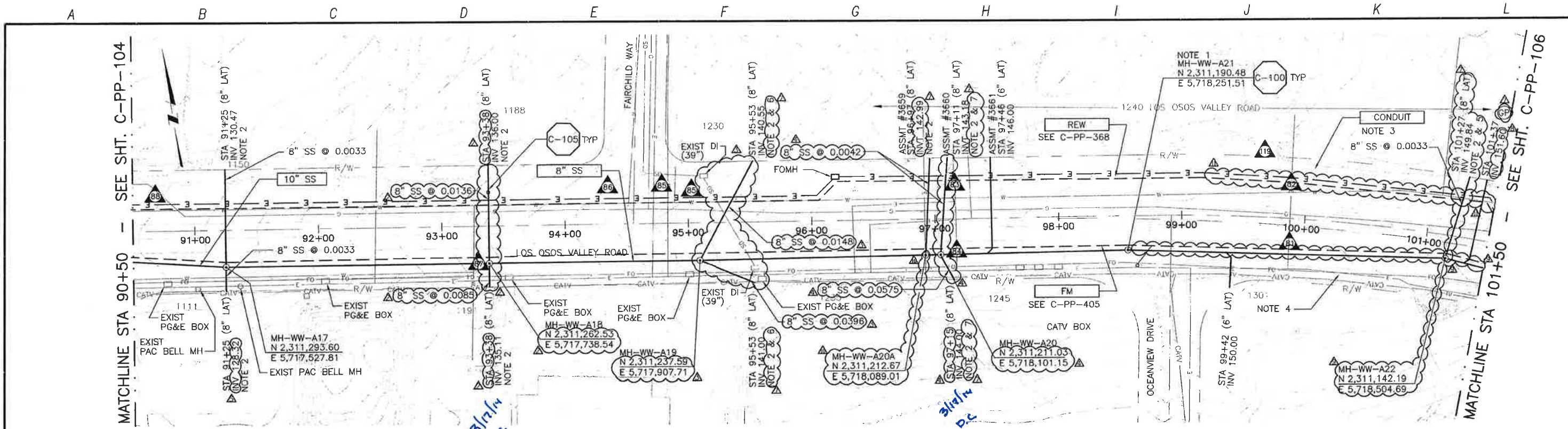
NOTES:

- CONTRACTOR SHALL REPAIR EXISTING TRAFFIC CONTROL SYSTEM, INCLUDING INSTALLING NEW DETECTOR LOOPS, WHERE CONSTRUCTION RESULTS IN DAMAGE TO EXISTING SYSTEM. CONTRACTOR SHALL COORDINATE REPAIRS WITH COUNTY OF SAN LUIS OBISPO.
- NOT ALL MONITORING WELLS ARE SHOWN.
- CONTRACTOR SHALL CAP END OF STUB SS AND STAKE FOR FUTURE CONNECTION.
- REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUIT AND MANHOLES ALONG THE PIPELINE.
- MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT MANHOLES.

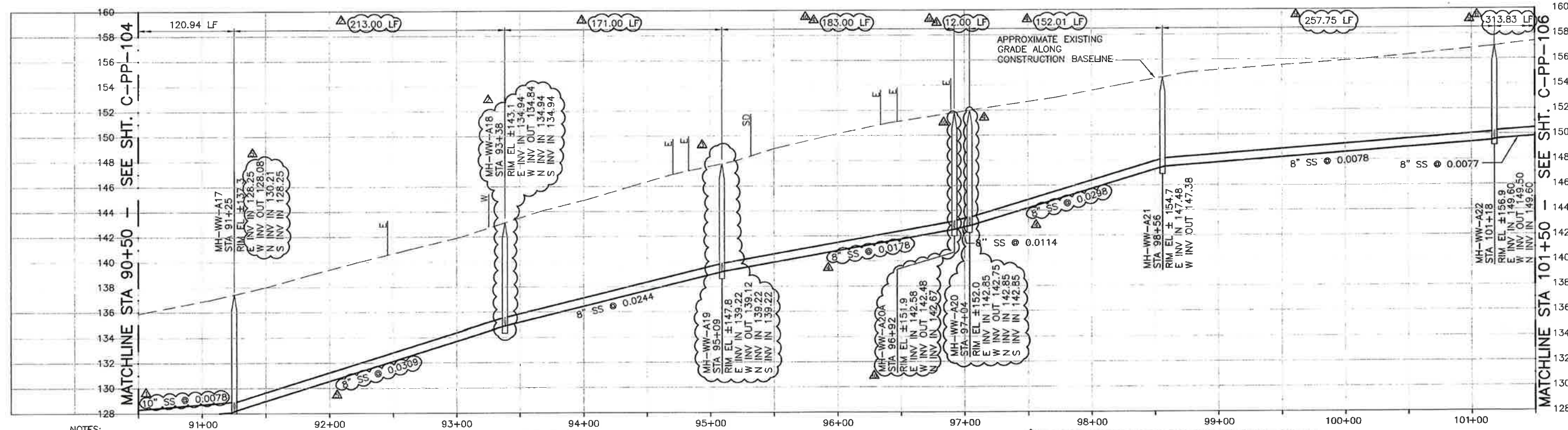
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<table border="1"> <tr> <th>REV. NO.</th> <th>DATE</th> <th>DRWN</th> <th>CHKD</th> <th>REMARKS</th> </tr> <tr> <td>1</td> <td>5/24/13</td> <td>LLB</td> <td>RLA</td> <td>RFI 102 - LOWER LATERAL TO AVOID TEL</td> </tr> <tr> <td>2</td> <td>5/23/13</td> <td>LLB</td> <td>RLA</td> <td>RFI 95 - LOWER SS TO CLEAR W</td> </tr> <tr> <td>3</td> <td>9/20/13</td> <td>LLB</td> <td>RLA</td> <td>RFI 93 AND RFI 94 - LOWER SS TO CLEAR TEL</td> </tr> <tr> <td>4</td> <td>9/09/13</td> <td>LLB</td> <td>RLA</td> <td>NOC 30 - LATERAL RELOCATION</td> </tr> <tr> <td>5</td> <td>5/02/13</td> <td>LLB</td> <td>RLA</td> <td>RFI 84 - RAISE SS TO CLEAR TEL</td> </tr> </table>	REV. NO.	DATE	DRWN	CHKD	REMARKS	1	5/24/13	LLB	RLA	RFI 102 - LOWER LATERAL TO AVOID TEL	2	5/23/13	LLB	RLA	RFI 95 - LOWER SS TO CLEAR W	3	9/20/13	LLB	RLA	RFI 93 AND RFI 94 - LOWER SS TO CLEAR TEL	4	9/09/13	LLB	RLA	NOC 30 - LATERAL RELOCATION	5	5/02/13	LLB	RLA	RFI 84 - RAISE SS TO CLEAR TEL	DESIGNED BY: KS DRAWN BY: RKU CHECKED BY: RLA DATE: APRIL 2012	<p>2295 Gateway Oaks Drive, Suite 240 Sacramento, CA 95833 Tel: (916) 587-9900</p>		<p>DIAL TOLL FREE 1-800-642-2444 AT LEAST TWO DAYS BEFORE YOU DIG!</p>	LOS OSOS WASTEWATER COLLECTION SYSTEM PLAN AND PROFILE LOS OSOS VALLEY ROAD STA 79+50 TO STA 90+50	PROJECT NO. 42502-83120 FILE NAME: C-PP-104 SHEET NO. C-PP-104.6
REV. NO.	DATE	DRWN	CHKD	REMARKS																																
1	5/24/13	LLB	RLA	RFI 102 - LOWER LATERAL TO AVOID TEL																																
2	5/23/13	LLB	RLA	RFI 95 - LOWER SS TO CLEAR W																																
3	9/20/13	LLB	RLA	RFI 93 AND RFI 94 - LOWER SS TO CLEAR TEL																																
4	9/09/13	LLB	RLA	NOC 30 - LATERAL RELOCATION																																
5	5/02/13	LLB	RLA	RFI 84 - RAISE SS TO CLEAR TEL																																

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PLAN ON LOS OSOS VALLEY ROAD



PROFILE ON LOS OSOS VALLEY ROAD

- NOTES:**
- CONTRACTOR SHALL NOTE THAT MAPPING PREDATES DEVELOPMENT AT 1240 LOS OSOS VALLEY ROAD. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS.
 - CONTRACTOR SHALL CAP END OF STUB SS AND STAKE FOR FUTURE CONNECTION.
 - REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUIT AND MANHOLES ALONG THE PIPELINE.
 - MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT MANHOLES.
 - LATERAL CONNECTS TO MH-WW-A22 @ STA 101+18.
 - LATERAL CONNECTS TO MH-WW-A19 @ STA 95+09.
 - LATERAL CONNECTS TO MH-WW-A20 @ STA 97+04.

CONSTRUCTION
BASELINE
STATION

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	10/28/13	LLB	RLA	RFI 145 - RELOCATE REW
2	7/01/13	LLB	RLA	RFI 111 - RELOCATE MH-A20A TO ALLOW CLEARANCE FROM MH-A20
3	7/01/13	LLB	RLA	RFI 108 & 109 - RELOCATE SS & FM TO AVOID SD & AT&T
4	6/18/13	LLB	RLA	NOC 42 - LATERAL INVERT ADJUSTMENT
5	6/18/13	LLB	RLA	NOC 39 - LATERAL RELOCATION

DESIGNED BY: KS
DRAWN BY: RLU
CHECKED BY: RLA
DATE: APRIL 2012

CDM Smith
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Sacramento, CA 95833
Tel: (916) 567-9900



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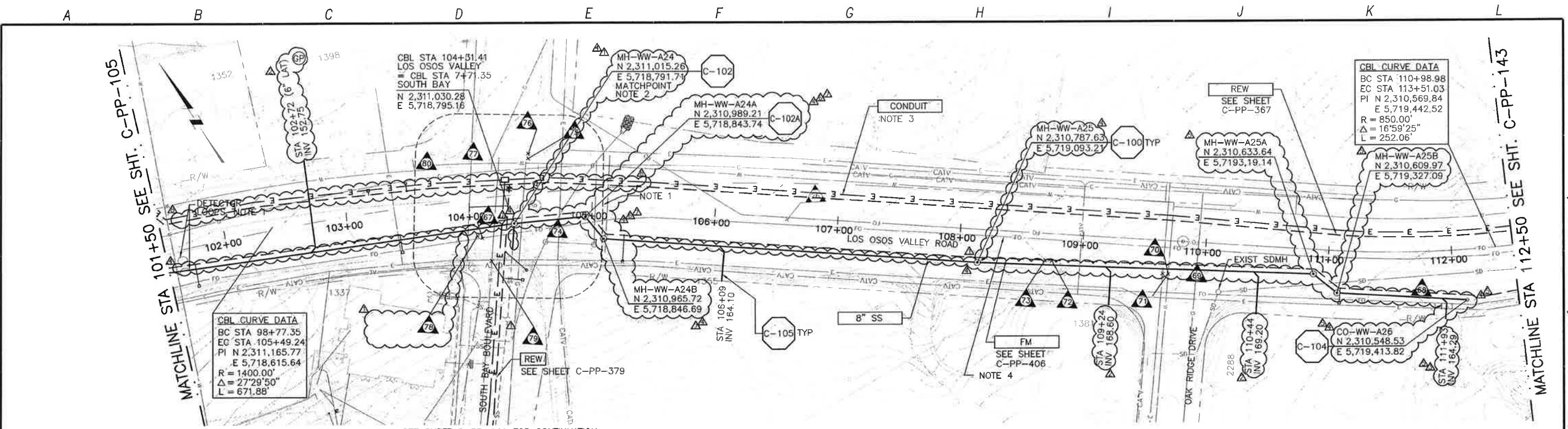
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LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
LOS OSOS VALLEY ROAD
STA 90+50 TO STA 101+50

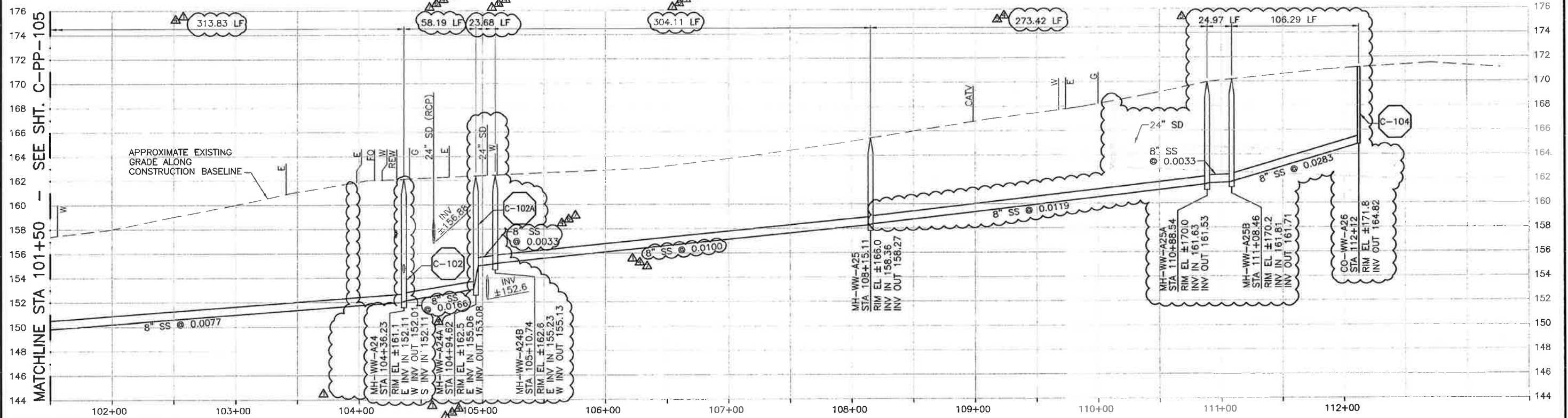
PROJECT NO. 42502-83120
FILE NAME: C-PP-105
SHEET NO.
C-PP-105.5

SCALE:
HORZ: 1"=40'
VERT: 1"=4'

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PLAN ON LOS OSOS VALLEY ROAD



PROFILE ON LOS OSOS VALLEY ROAD

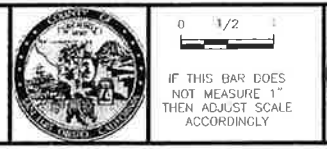
NOTES:

- CONTRACTOR SHALL REPAIR EXISTING TRAFFIC CONTROL SYSTEM, INCLUDING INSTALLING NEW DETECTOR LOOPS, WHERE CONSTRUCTION RESULTS IN DAMAGE TO EXISTING SYSTEM. CONTRACTOR SHALL COORDINATE REPAIRS WITH COUNTY OF SAN LUIS OBISPO.
- MH-WW-A24 SHALL BE CONSTRUCTED ON EXISTING 8" PVC (SDR 35) SS FROM SOUTH. CONTRACTOR SHALL VERIFY.
- REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUIT AND MANHOLES ALONG THE PIPELINE.
- MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT MANHOLES.

REV. NO.	DATE	DRWN	CHKD	REMARKS
10/28/13	LLB	RLA	RFI 145	- RELOCATE REW
7/30/13	LLB	RLA	RFI 124	- RELOCATE SS & FM TO AVOID SD
7/26/13	LLB	RLA	RFI 121	- RELOCATE SS & FM TO AVOID AT&T
7/26/13	LLB	RLA	RFI 119 & 120	- RELOCATE SS & FM TO AVOID SD & GAS
7/01/13	LLB	RLA	RFI 108 & 109	- RELOCATE SS & FM TO AVOID SD & AT&T

DESIGNED BY: KS
 DRAWN BY: RLU
 CHECKED BY: RLA
 DATE: APRIL 2012

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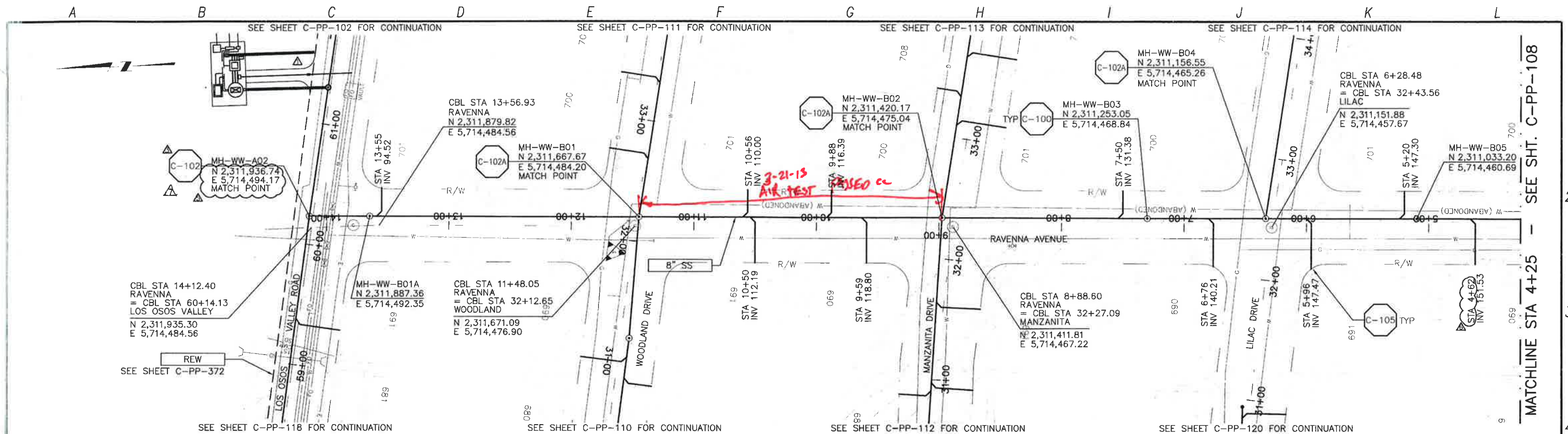


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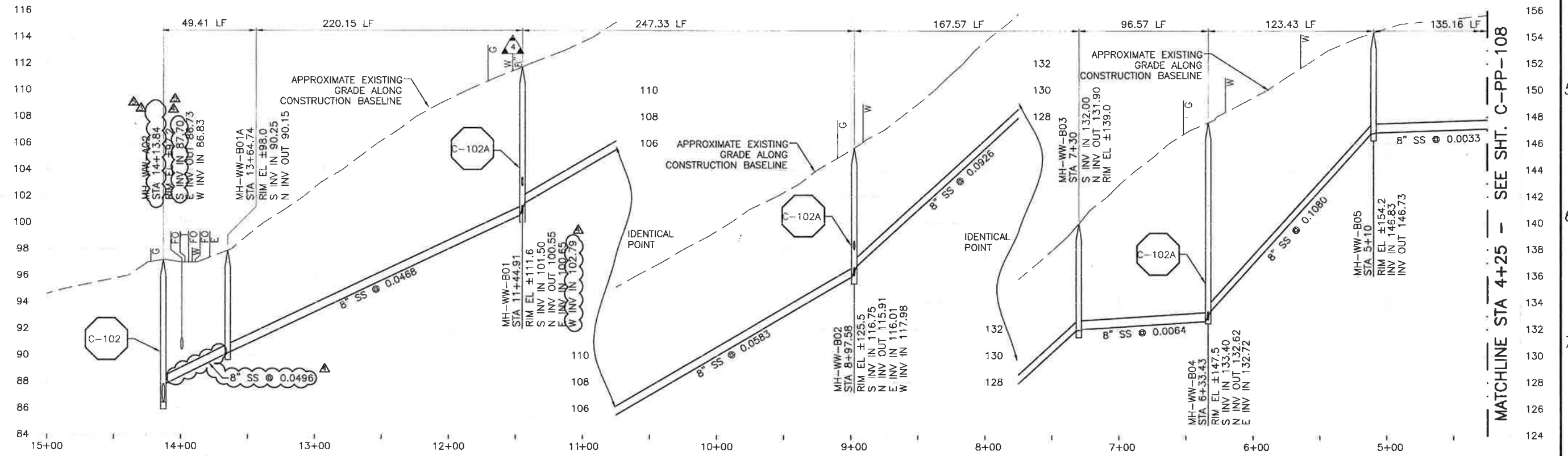
LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
 LOS OSOS VALLEY ROAD
 STA 101+50 TO STA 112+50

PROJECT NO. 42502-83120
 FILE NAME: C-PP-106
 SHEET NO.
C-PP-106.7

SCALE:
 HORZ: 1"=40'
 VERT: 1"=4'



PLAN ON RAVENNA AVENUE



PROFILE ON RAVENNA AVENUE

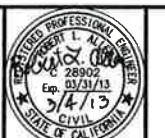
REV. NO.	DATE	DRWN	CHKD	REMARKS
1	3/04/13	LLB	RLA	RFI 43 - CORRECT MH COORDINATES
2	2/12/13	LLB	RLA	NOC 26 - LATERAL RELOCATION
3	2/06/13	LLB	RLA	RFI 43 - CORRECTION TO MH LOCATION
4	1/30/13	LLB	RLA	RFI 43 - LOWER SEWER TO CLEAR FO/DCM 24 - ADJUST INVERT
5	10/30/12	LLB	RLA	RELOCATE MH

DESIGNED BY: KS
 DRAWN BY: RKU
 CHECKED BY: RLA
 DATE: APRIL 2012

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 Sacramento, CA 95833
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SCALE: 1" = 40'
 HORIZ. 1" = 40'
 VERT. 1" = 4'



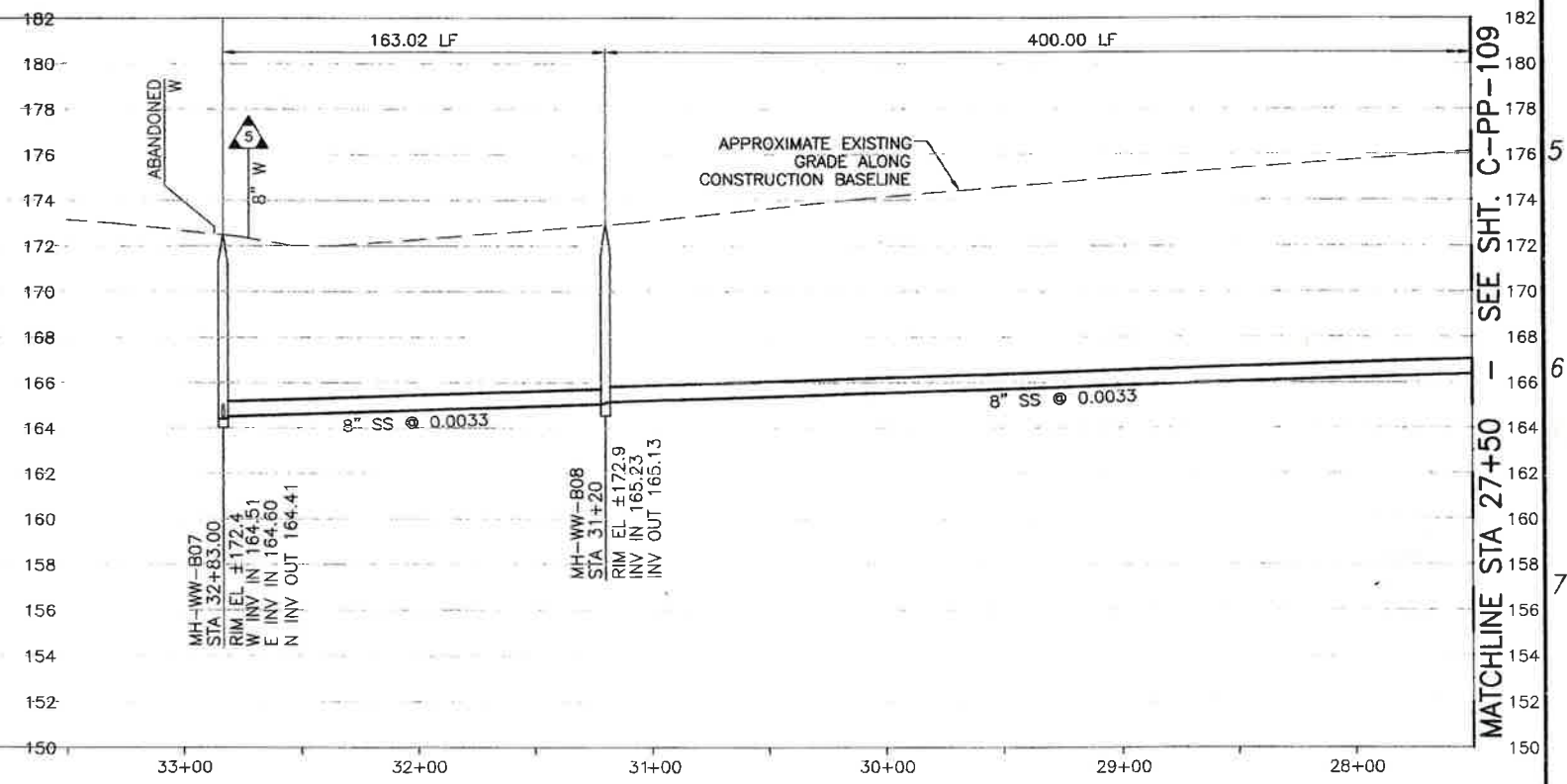
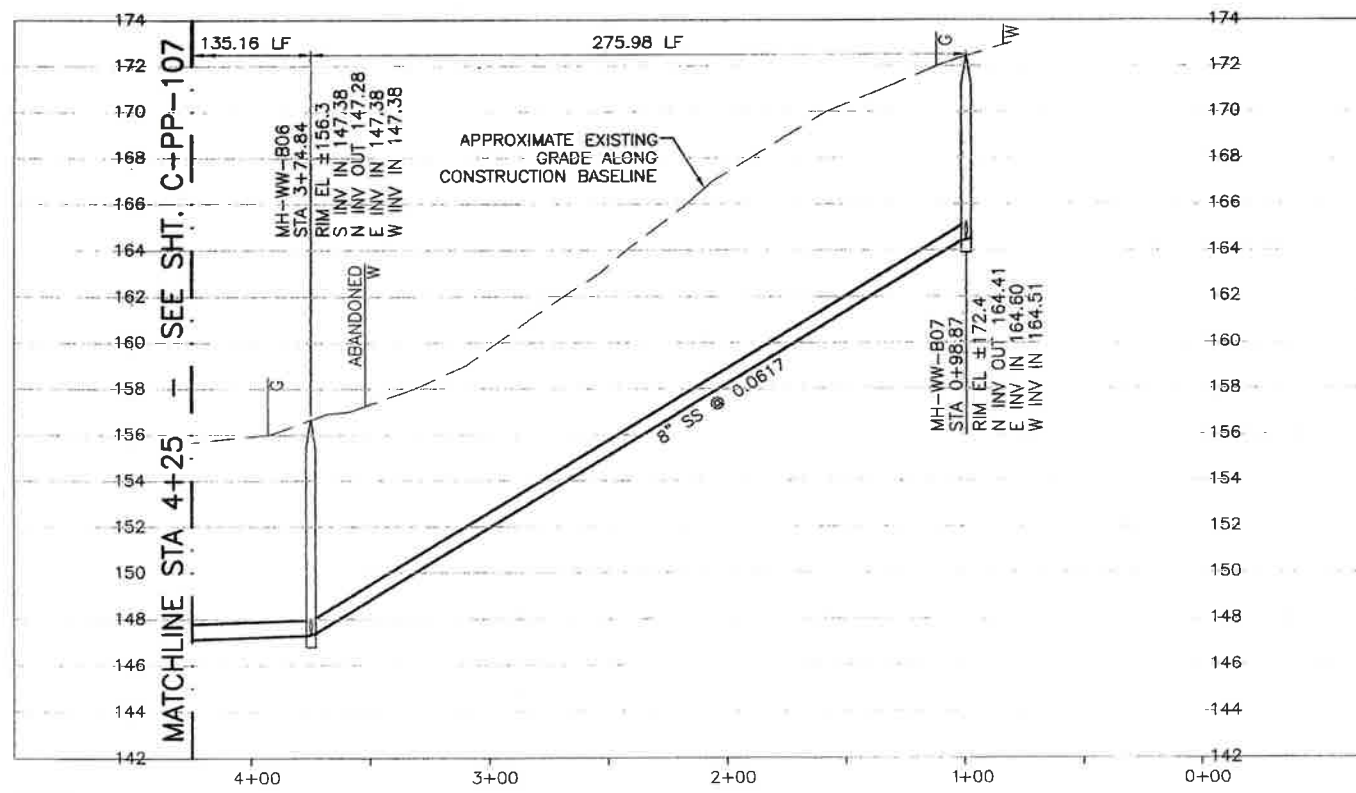
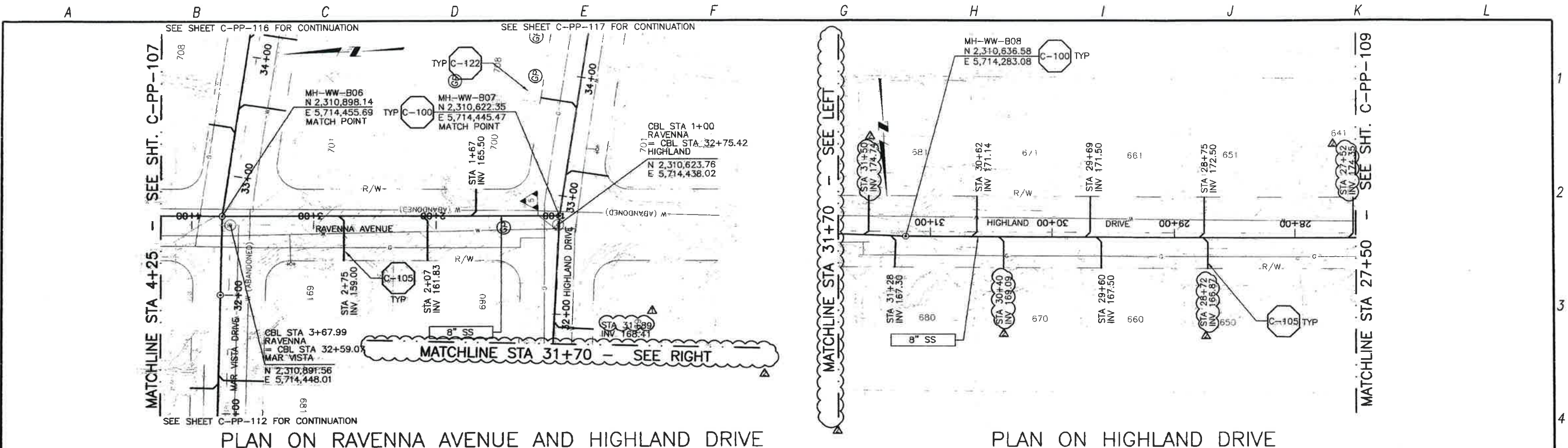
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LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE RAVENNA AVENUE
 STA 14+13.84 TO STA 4+25

PROJECT NO. 42502-83120
 FILE NAME: C-PP-107
 SHEET NO. C-PP-107.4

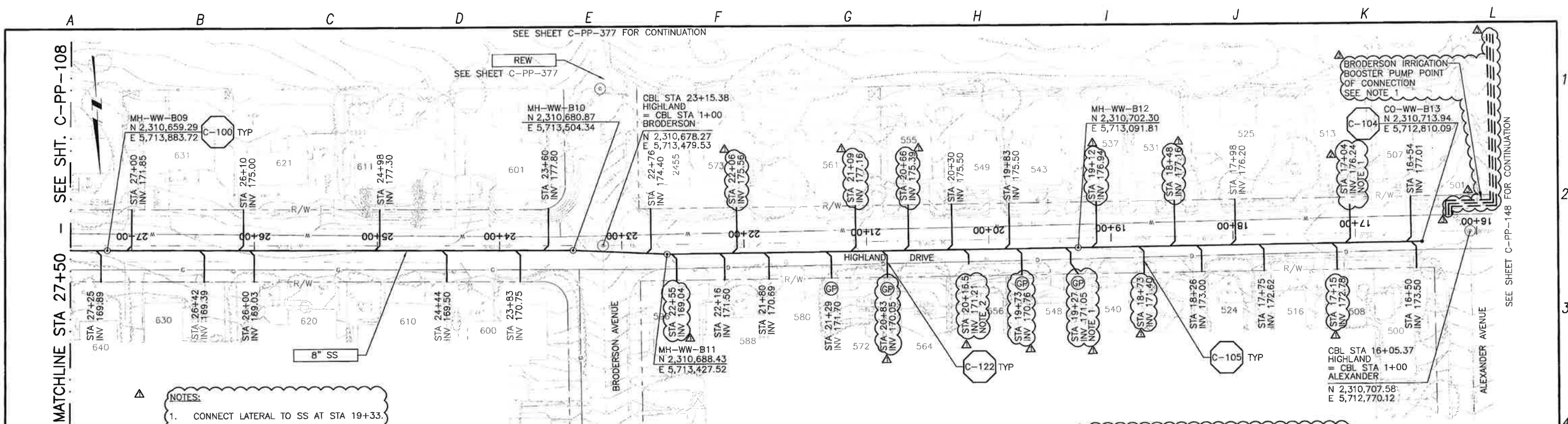
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CONSTRUCTION BASELINE STATION				DESIGNED BY: KS	 CDM Smith 2266 Gateway Oaks Drive, Suite 240 Sacramento, CA 95833 Tel: (916) 567-9900	 5/13/13	 DIGALERT 24H TOLL FREE 1-800-647-7444 AT LEAST 24 HRS BEFORE YOU GO	LOS OSOS WASTEWATER COLLECTION SYSTEM PLAN AND PROFILE RAVENNA AVE - 4+25 TO 0+98.87 HIGHLAND DRIVE - 32+83 TO 27+50	PROJECT NO. 42502-83120 FILE NAME: C-PP-108 SHEET NO. C-PP-108.2
5/09/13 LLB RLA NOC 30 - LATERAL RELOCATIONS 1/22/13 LLB RLA NOC 19 - LATERAL RELOCATION	DRAWN BY: RKU CHECKED BY: RLA DATE: APRIL 2012	IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY		SCALE: HORIZ 1"=40' VERT 1"=4'					

WCD 056

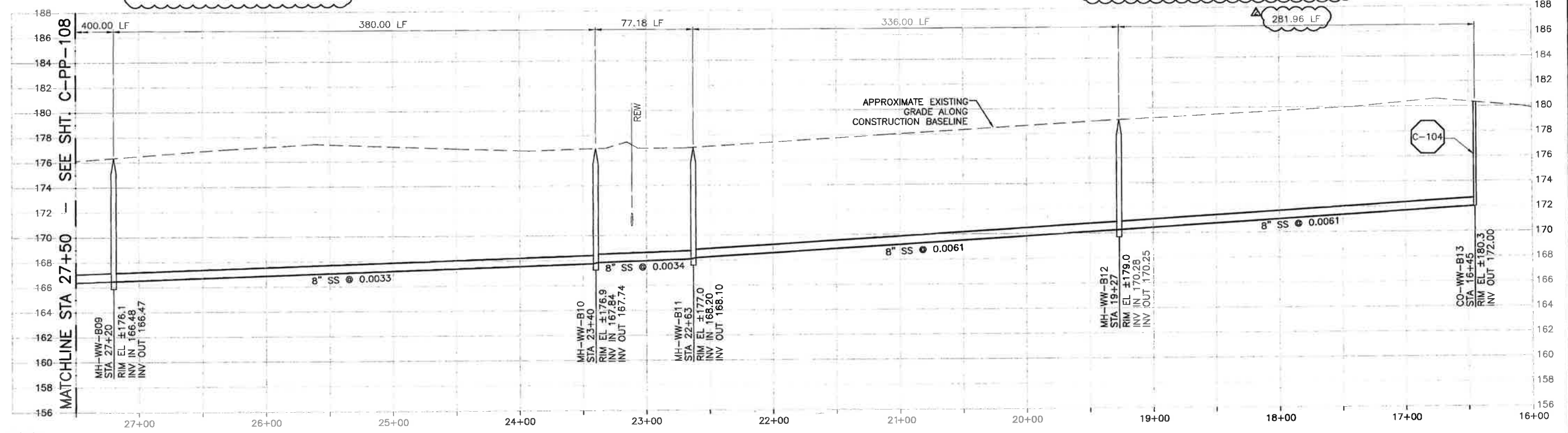
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- NOTES:**
- CONNECT LATERAL TO SS AT STA 19+33.
 - STOP LATERAL 10' FROM PROPERTY LINE.
 - END LATERAL 6' FROM PROPERTY LINE.

- NOTE 1**
- SEE SHEET C-L-102 AND C-ED-339 FOR DETAILS OF BRODERSON IRRIGATION BOOSTER PUMP.

SEE REVISED

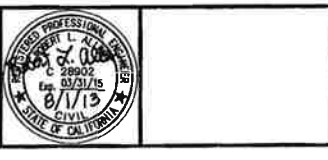
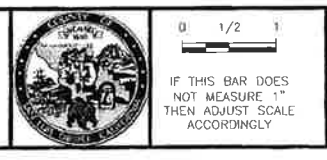


PROFILE ON HIGHLAND DRIVE

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	8/01/13	LLB	RLA	RFI 106 - RELOCATE IRR PUMP
2	5/30/13	LLB	RLA	NOC 35 - LATERAL RELOCATION
3	5/09/13	LLB	RLA	NOC 30 - LATERAL RELOCATIONS

DESIGNED BY: _____ KS
 DRAWN BY: _____ RKU
 CHECKED BY: _____ RLA
 DATE: _____ APRIL 2012

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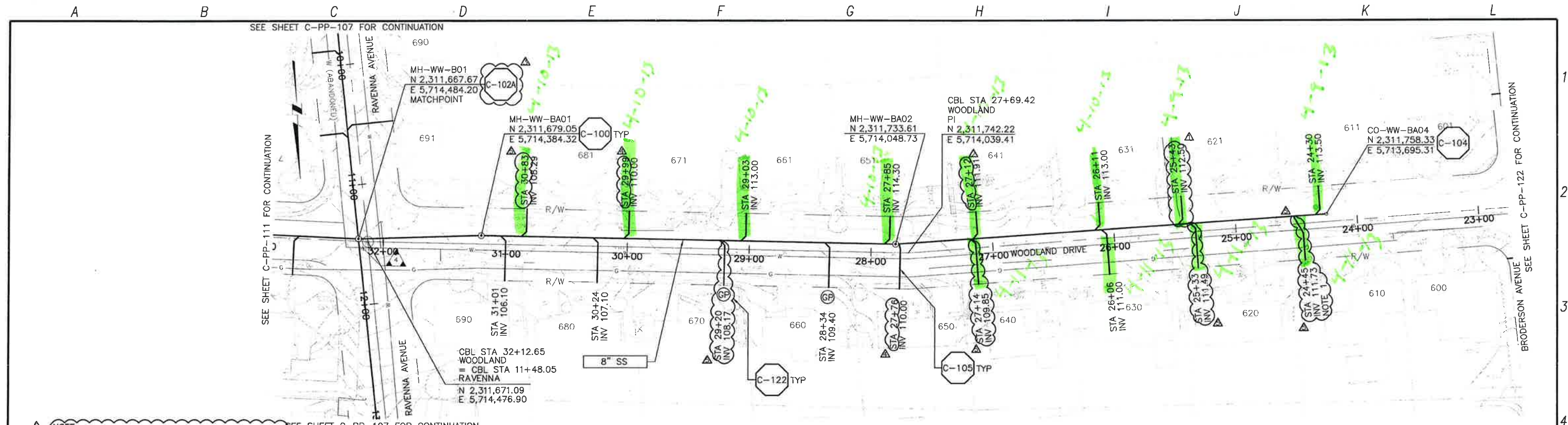
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LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
HIGHLAND DRIVE
STA 27+50 TO STA 16+45

PROJECT NO. 42502-83120
 FILE NAME: C-PP-109
 SHEET NO.
C-PP-109.3

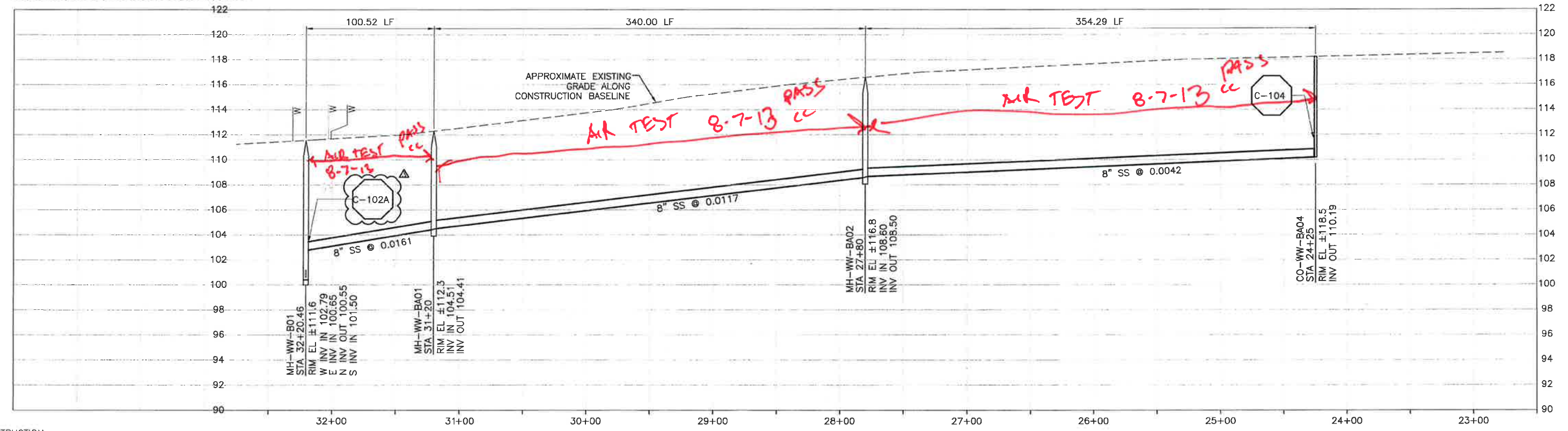
SCALE:
 HORIZ: 1"=40'
 VERT: 1"=4'

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NOTE:
 1. LATERAL CONNECTS TO SEWER AT STA 24+52

PLAN ON WOODLAND DRIVE



PROFILE ON WOODLAND DRIVE

REV. NO.	DATE	DRWN	CHKD	REMARKS
2/12/13	LLB	RLA	NOC 26 - LATERAL RELOCATIONS	
2/04/13	LLB	RLA	NOC 23 - LATERAL RELOCATION	
1/30/13	LLB	RLA	DCM 24 - CALLOUT UPDATE	
11/19/12	LLB	RLA	RNOC 13 - LATERAL RELOCATION	
10/10/12	LLB	RLA	LATERAL RELOCATIONS	

DESIGNED BY: KS
 DRAWN BY: RLU
 CHECKED BY: RLA
 DATE: APRIL 2012

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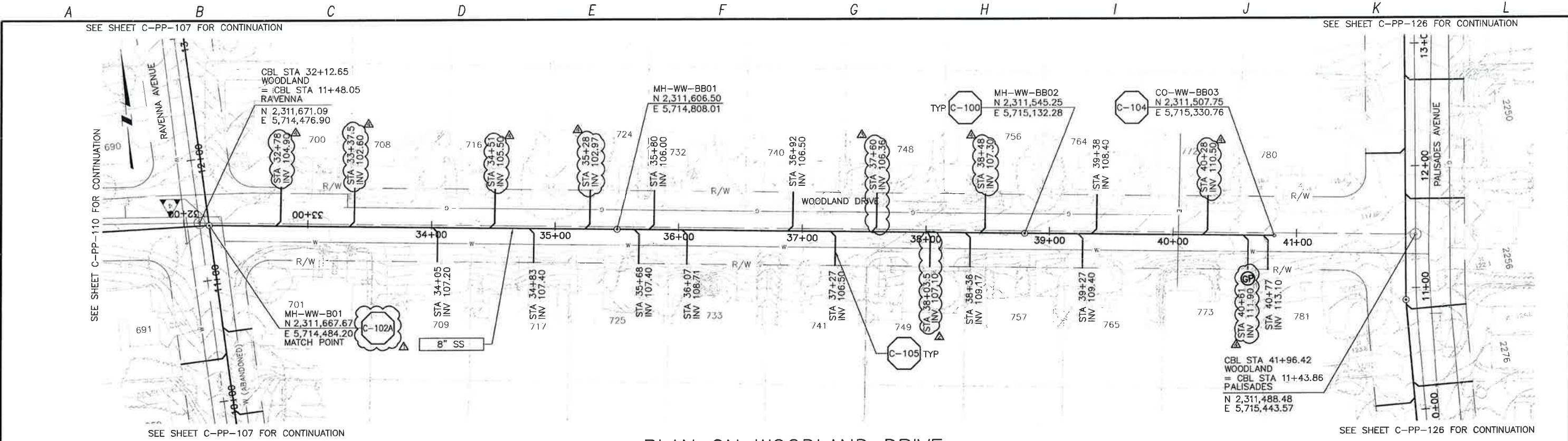


LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE
 WOODLAND DRIVE
 STA 32+20.46 TO STA 24+25

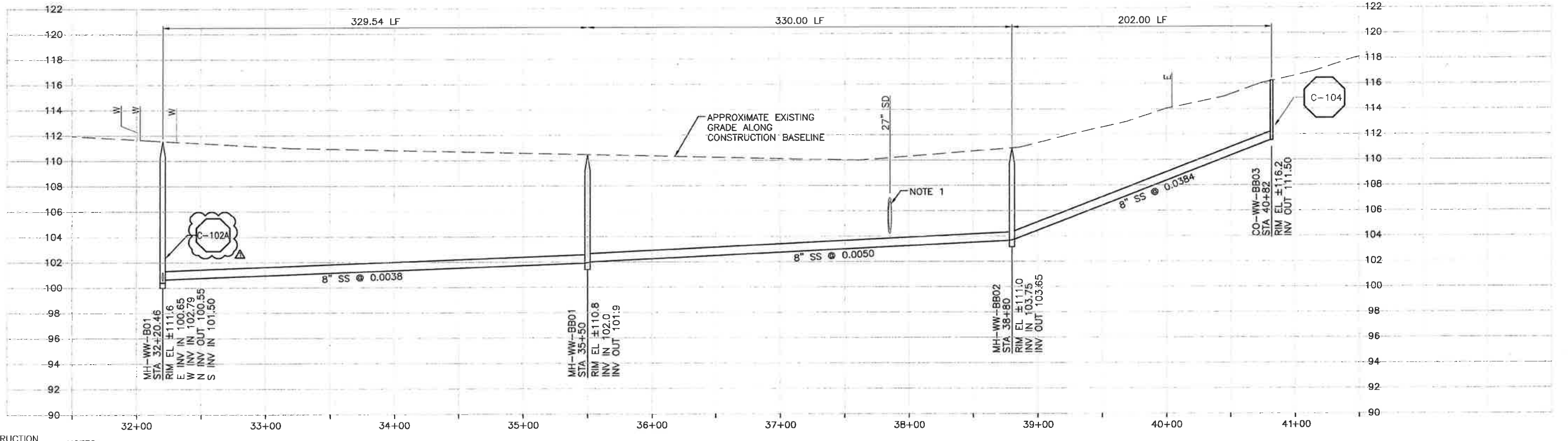
PROJECT NO. 42502-83120
 FILE NAME: C-PP-110
 SHEET NO. C-PP-110.4

WCD 037

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PLAN ON WOODLAND DRIVE



PROFILE ON WOODLAND DRIVE

CONSTRUCTION BASELINE STATION
 NOTES:
 1. CONTRACTOR SHALL POT-HOLE EXISTING SD TO VERIFY LOCATION AND DEPTH PRIOR TO BEGINNING WORK.

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	5/08/13	LLB	RLA	NOC 30 - LATERAL RELOCATIONS
2	2/12/13	LLB	RLA	NOC 26 - LATERAL RELOCATION
3	2/04/13	LLB	RLA	NOC 23 - LATERAL RELOCATION
4	1/30/13	LLB	RLA	DCM 24 - CALLOUT UPDATE

DESIGNED BY: KS
 DRAWN BY: RRU
 CHECKED BY: RLA
 DATE: APRIL 2012

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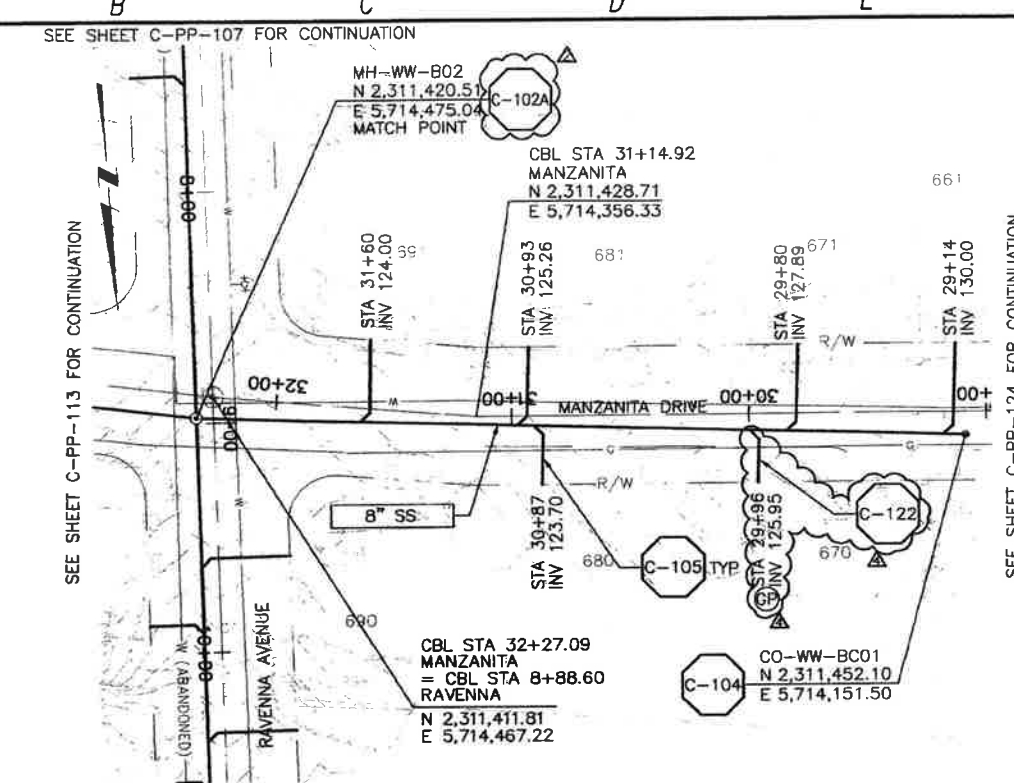
LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE
 WOODLAND DRIVE
 STA 32+20.46 TO STA 40+82

PROJECT NO. 42502-83120
 FILE NAME: C-PP-111
 SHEET NO. C-PP-111.4

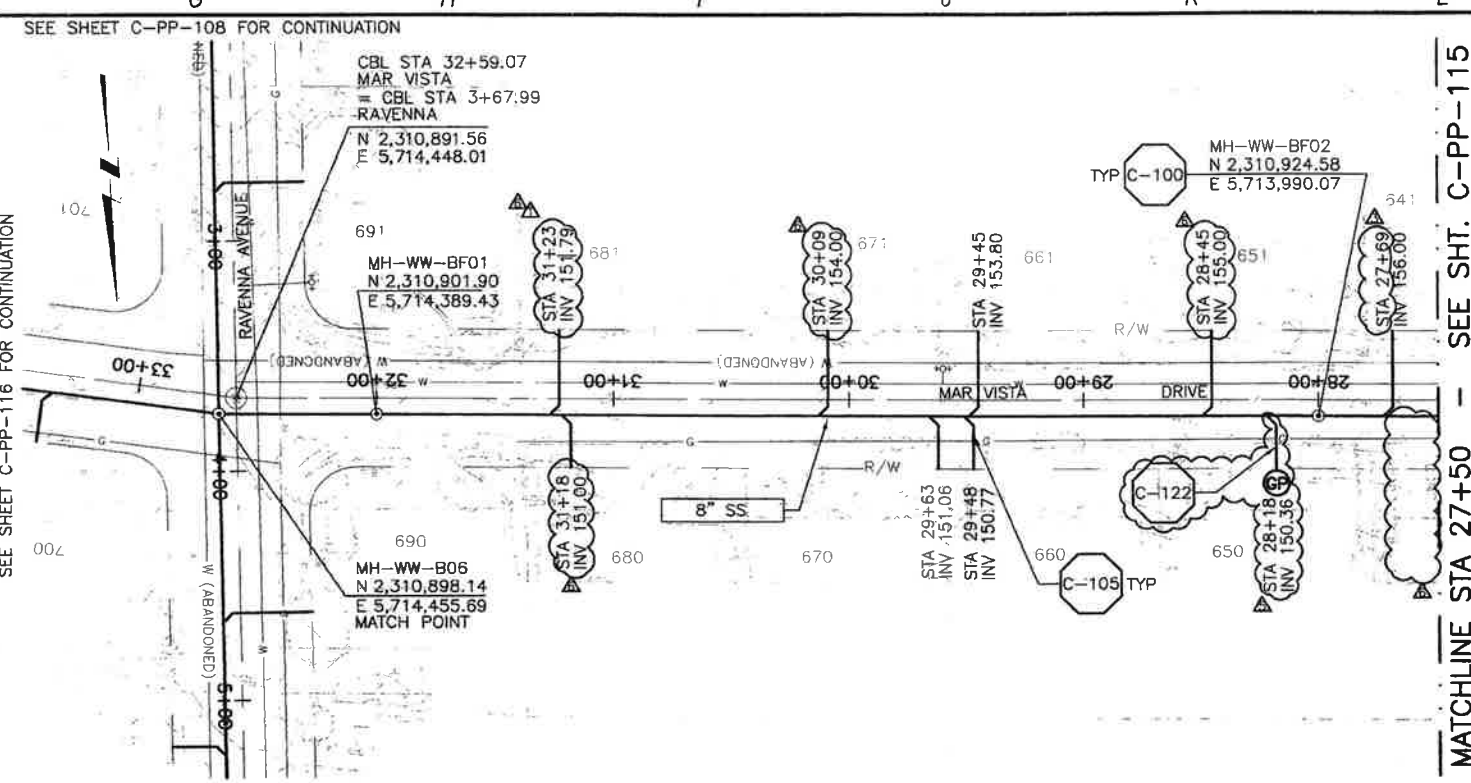
web 037

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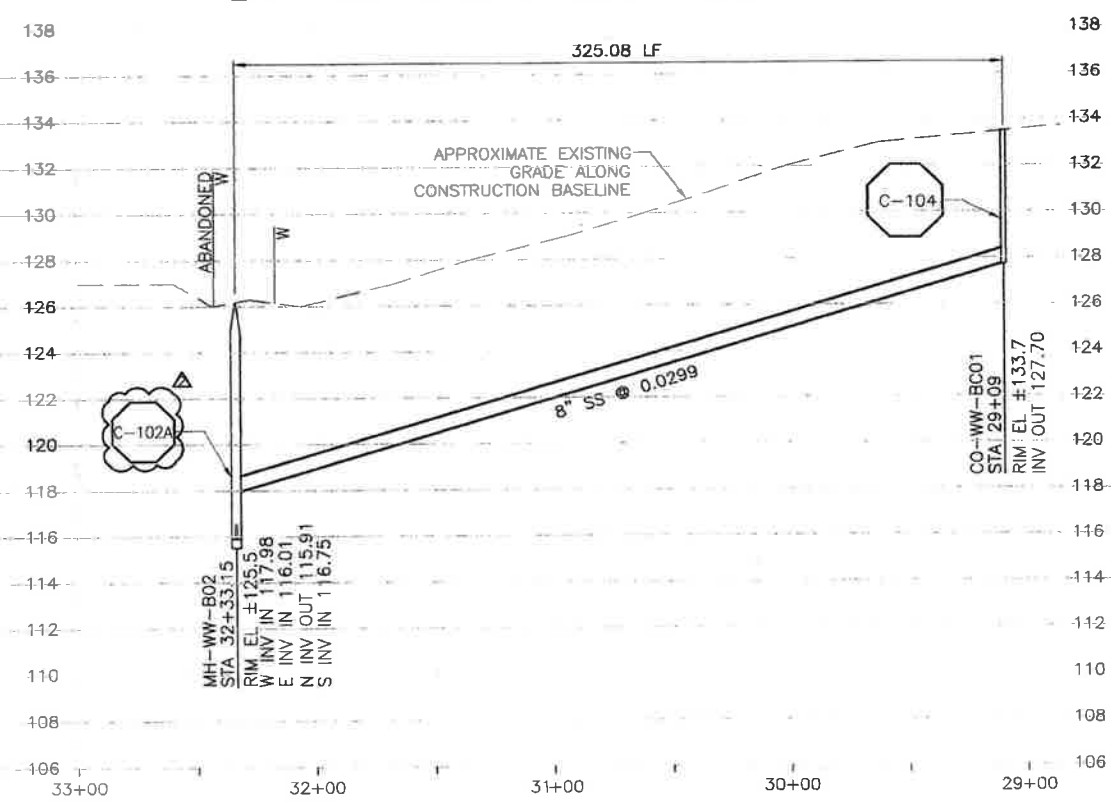
A B C D E F G H I J K L



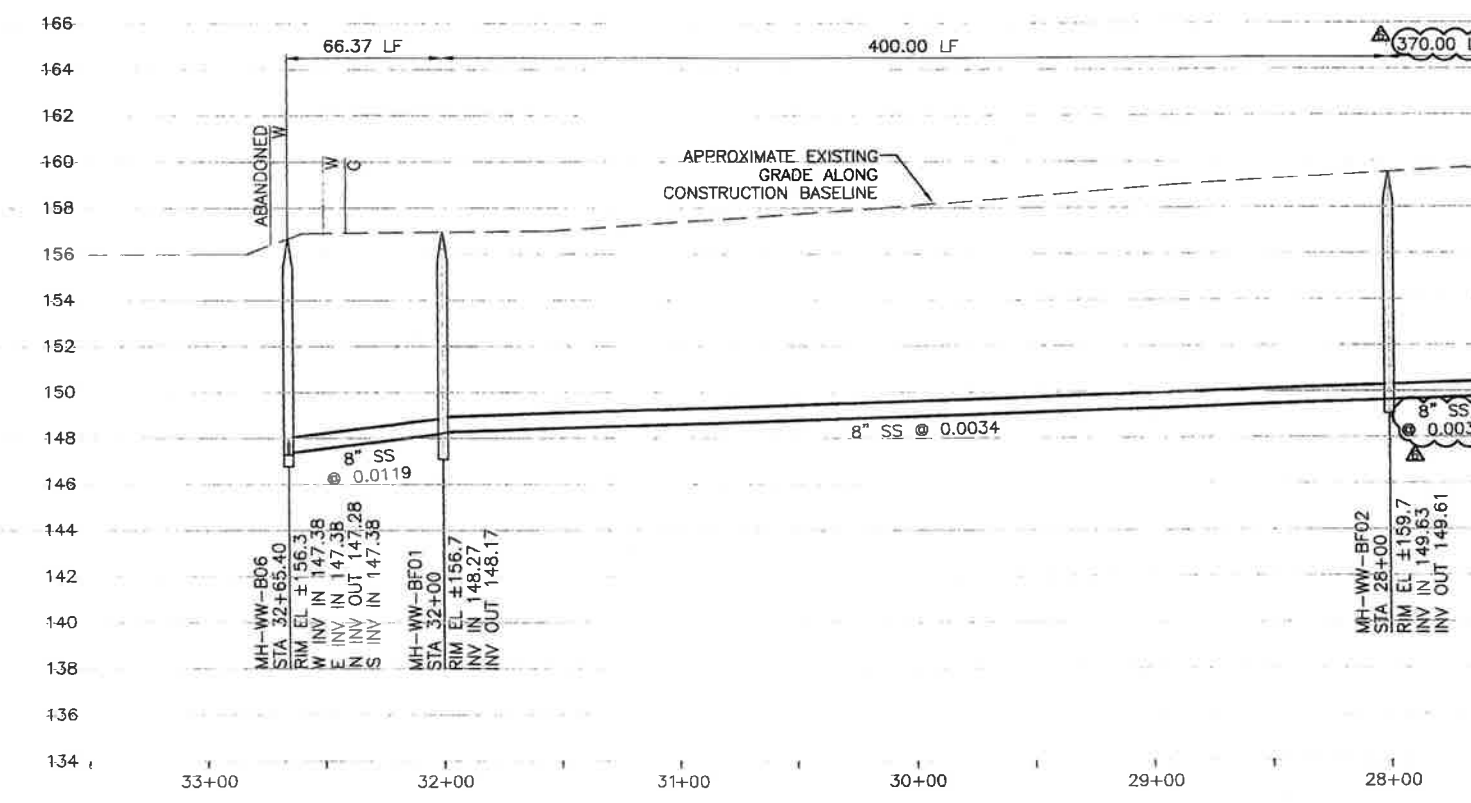
PLAN ON MANZANITA DRIVE



PLAN ON MAR VISTA DRIVE



PROFILE ON MANZANITA DRIVE



PROFILE ON MAR VISTA DRIVE

CONSTRUCTION
BASELINE
STATION

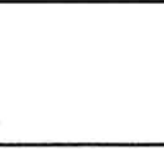
REV. NO.	DATE	DRWN	CHKD	REMARKS
5/09/13	LLB	RLA	NOC 30	- LATERAL RELOCATIONS
4/23/13	LLB	RLA	NOC 29	- LATERAL RELOCATION
4/02/13	LLB	RLA	DCM 34	- LATERAL RELOCATION
2/12/13	LLB	RLA	NOC 26	- LATERAL RELOCATION
1/30/13	LLB	RLA	DCM 24	- CALLOUT UPDATE

DESIGNED BY: KS
 DRAWN BY: RKU
 CHECKED BY: RLA
 DATE: APRIL 2012

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 Sacramento, CA 95833
 Tel: (916) 567-9900



SCALE: 1/2"
 IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY



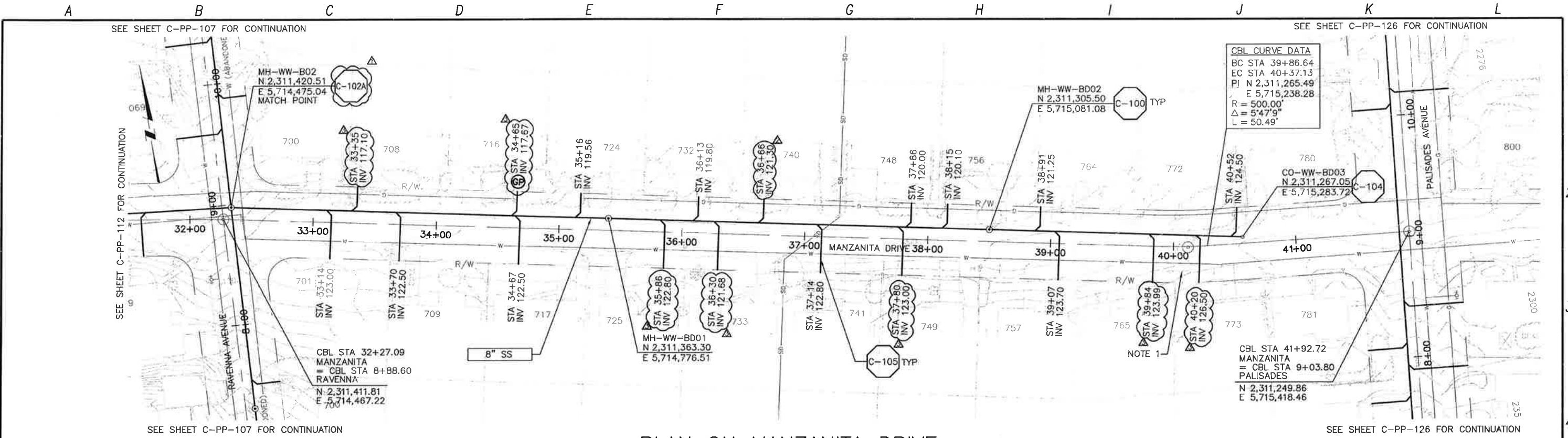
DIGALERT
 DIAL TOLL FREE 1-800-642-2444
 AT LEAST TWO DAYS BEFORE ANY DIG

LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
 MANZANITA DR - 32+33.15 TO 29+09
 MAR VISTA DR - 32+65.40 TO 27+50

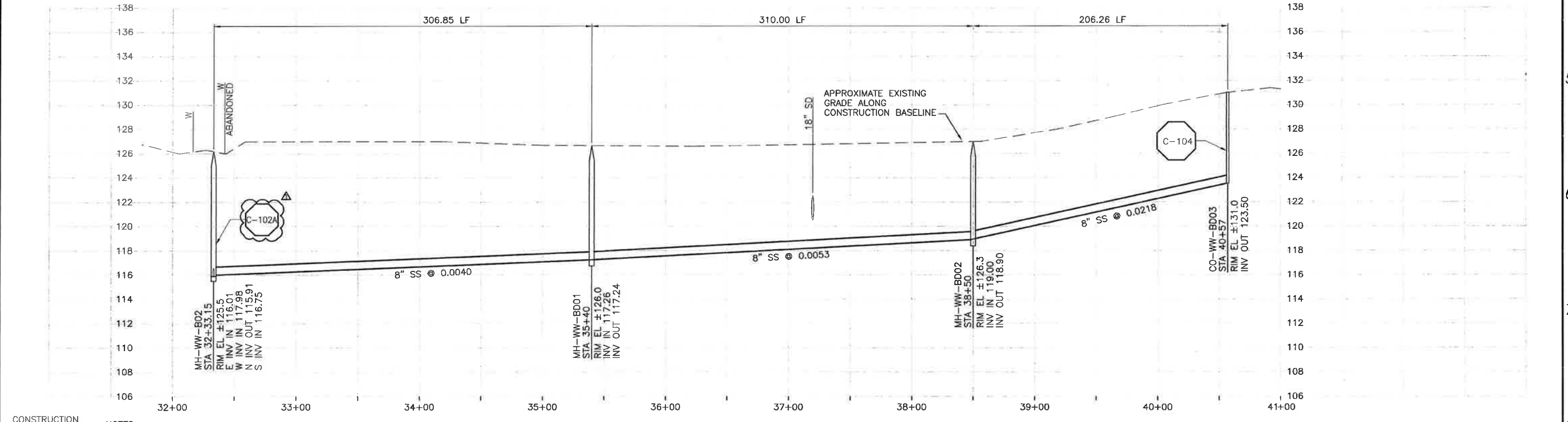
PROJECT NO. 42502-83120
 FILE NAME: C-PP-112
 SHEET NO. C-PP-112.6

wcs 056

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PLAN ON MANZANITA DRIVE



PROFILE ON MANZANITA DRIVE

CONSTRUCTION BASELINE STATION

NOTES:
 1. CONTRACTOR SHALL TEMPORARILY RELOCATE GUY WIRE. CONTACT PG&E TO COORDINATE.

REV. NO.	DATE	DRWN	CHKD	REMARKS
5/09/13	LLB	RLA		NOC 30 - LATERAL RELOCATIONS
4/23/13	LLB	RLA		NOC 29 - LATERAL RELOCATION
1/30/13	LLB	RLA		DCM 24 - CALLOUT UPDATE

DESIGNED BY: KS
 DRAWN BY: RKU
 CHECKED BY: RLA
 DATE: APRIL 2012

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 Sacramento, CA 95833
 Tel: (916) 567-9900



0 1/2 1
 IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY



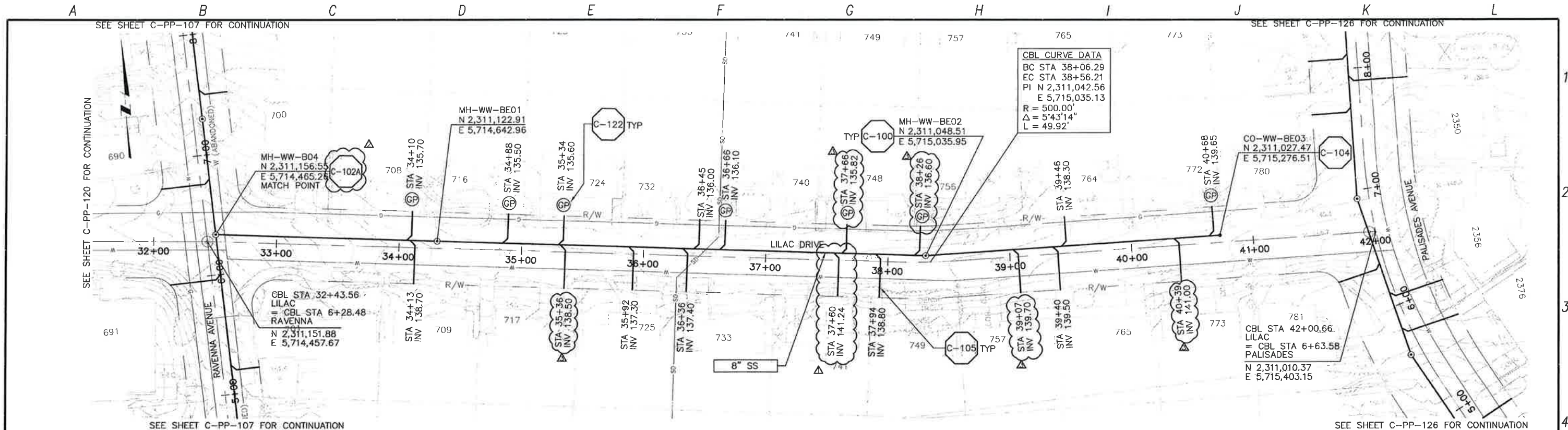
DIGALERT
 DIAL TOLL FREE 1-800-642-2444
 AT LEAST TWO DAYS BEFORE YOU DIG
 UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
MANZANITA DRIVE
 STA 32+33.15 TO STA 40+57

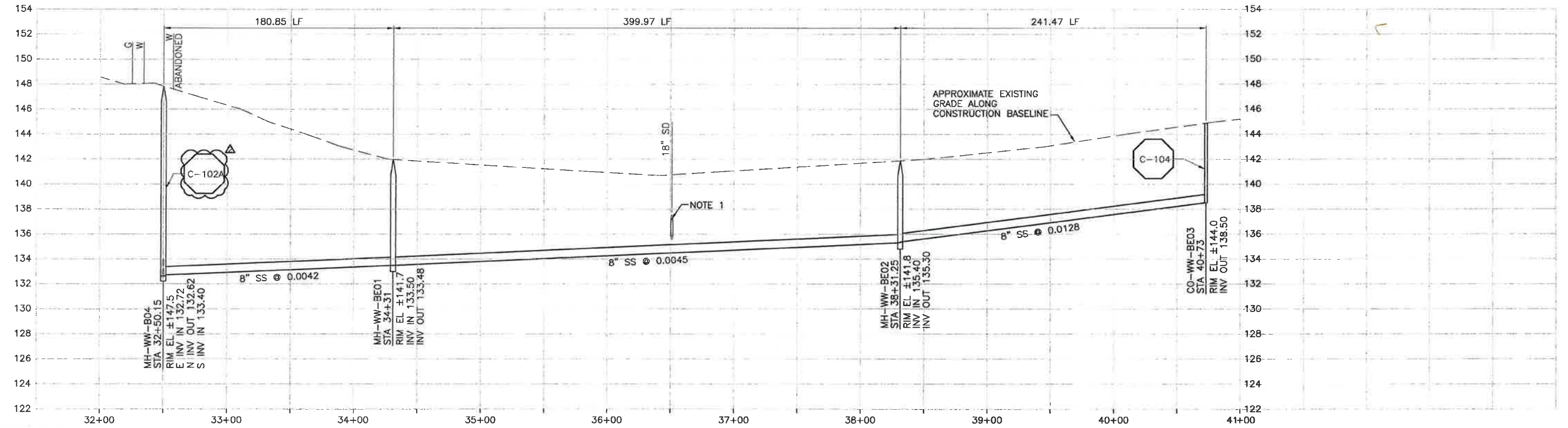
PROJECT NO. 42502-83120
 FILE NAME: C-PP-113
 SHEET NO. C-PP-113.3

SCALE:
 HORZ: 1"=40'
 VERT: 1"=4'

CDM SMITH
 2295 GATEWAY OAKS DRIVE, SUITE 240
 SACRAMENTO, CA 95833
 TEL: (916) 567-9900
 FAX: (916) 567-9901
 WWW.CDMSMITH.COM
 PROJECT NO. 42502-8312
 FILE NAME: C-PP-114
 SHEET NO. C-PP-114.2
 DATE: APRIL 2012
 DESIGNED BY: KS
 DRAWN BY: RLU
 CHECKED BY: RLA
 DATE: APRIL 2012



PLAN ON LILAC DRIVE



PROFILE ON LILAC DRIVE

CONSTRUCTION BASELINE STATION

NOTES:
 1. CONTRACTOR SHALL POT HOLE EXISTING SD TO VERIFY LOCATION AND DEPTH PRIOR TO BEGINNING WORK.

REV. NO.	DATE	DRWN	CHKD	REMARKS
5/09/13	LLB	RLA		NOC 30 - LATERAL RELOCATIONS
1/30/13	LLB	RLA		DCM 24 - CALLOUT UPDATE
11/06/12	VCS	RLA		LATERAL RELOCATION

DESIGNED BY: KS
 DRAWN BY: RLU
 CHECKED BY: RLA
 DATE: APRIL 2012

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 Sacramento, CA 95833
 Tel: (916) 567-9900



0 1/2 1
 IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY



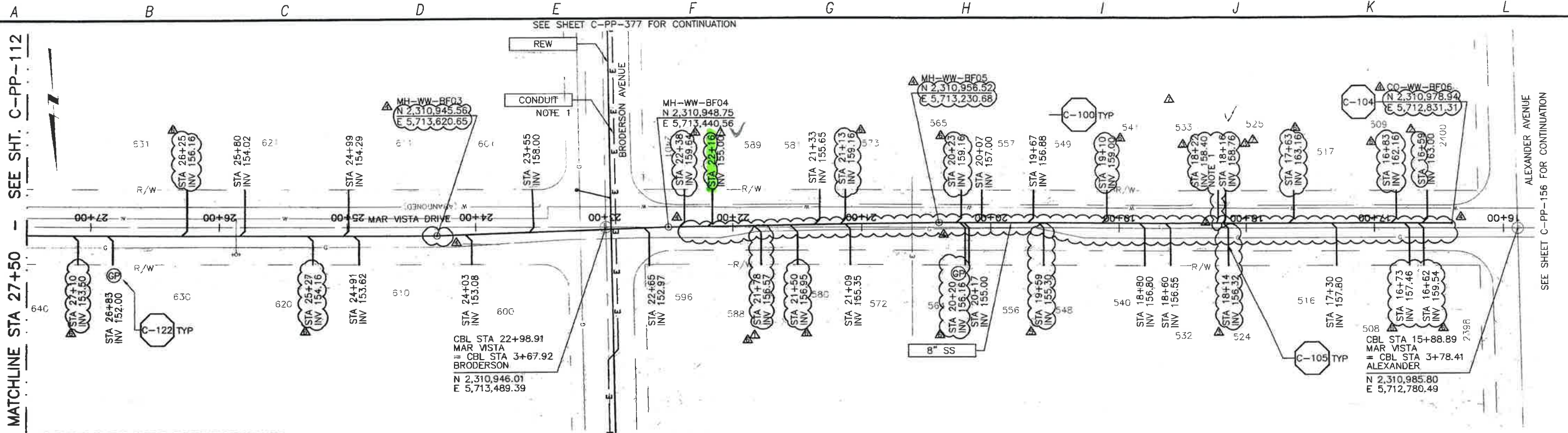
DIGALERT
 DIAL TOLL FREE
 1-800-642-2444
 AT LEAST TWO DAYS BEFORE YOU DIG
 UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
LILAC DRIVE
 STA 32+50.15 TO STA 40+73

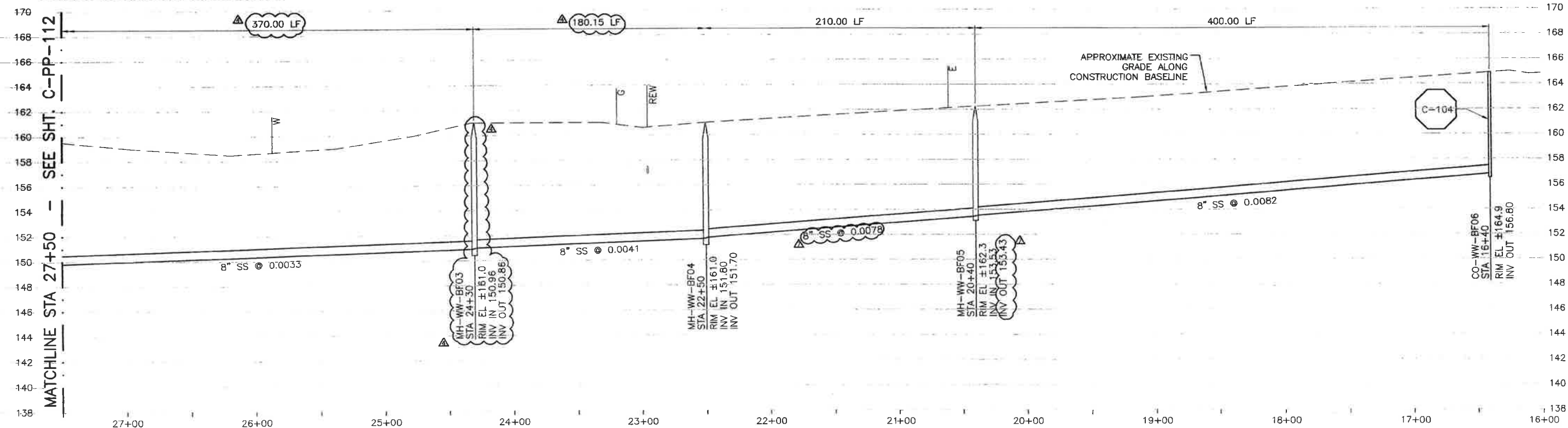
SCALE:
 HORZ: 1"=40'
 VERT: 1"=4'
 PROJECT NO. 42502-8312
 FILE NAME: C-PP-114
 SHEET NO.
C-PP-114.2

WCD 078

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PLAN ON MAR VISTA DRIVE



PROFILE ON MAR VISTA DRIVE

NOTE:
1. REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	5/21/13	LLB	RLA	NOC 32 - LATERAL RELOCATION
2	5/09/13	LLB	RLA	NOC 30 - LATERAL RELOCATIONS
3	4/23/13	LLB	RLA	NOC 29 - LATERAL RELOCATION
4	2/20/13	LLB	RLA	RFI 59 & 60 - RELOCATE SS TO AVOID G & WS
5	2/12/13	LLB	RLA	NOC 26 - LATERAL RELOCATION

DESIGNED BY: KS
 DRAWN BY: RLU
 CHECKED BY: RLU
 DATE: APRIL 2012

CDM Smith
 2295 Gateway Oaks Drive, Suite 240
 Sacramento, CA 95833
 Tel: (916) 567-9900



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DIGALERT
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 UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

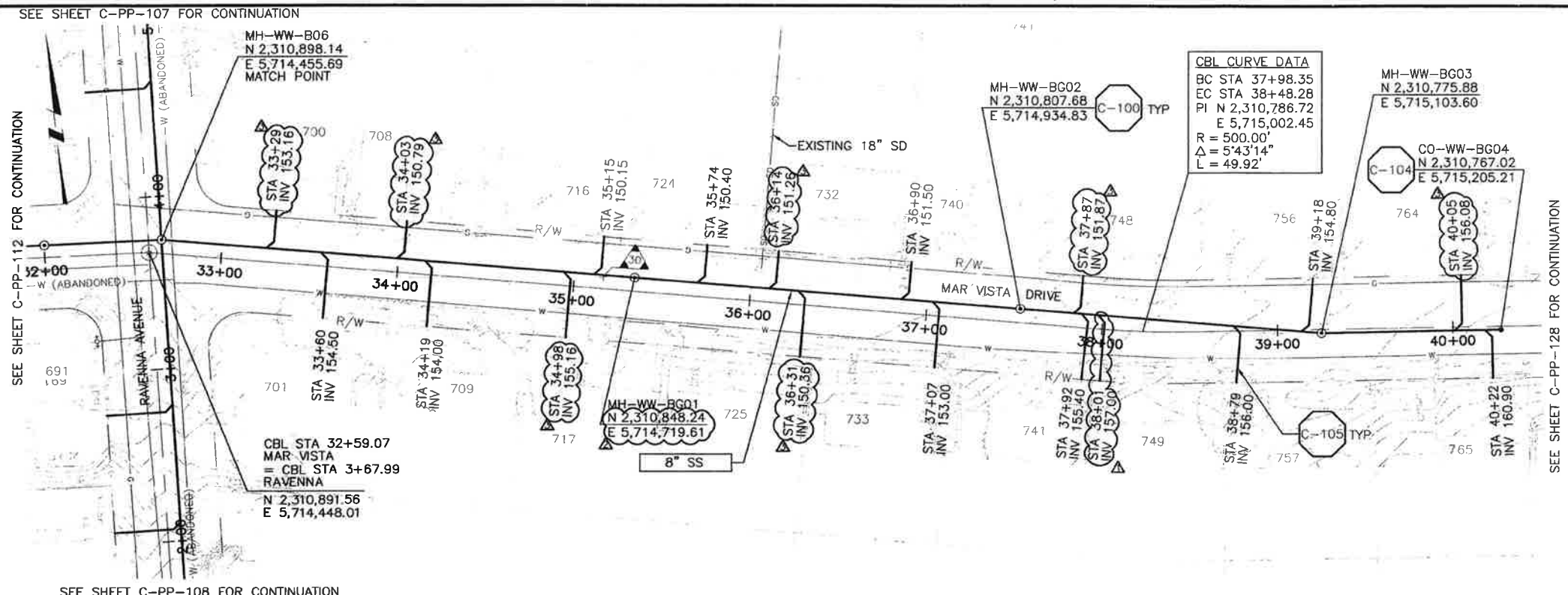
LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
MAR VISTA DRIVE
STA 27+50 TO STA 16+40

PROJECT NO. 42502-83120
 FILE NAME: C-PP-115
 SHEET NO. C-PP-115.6

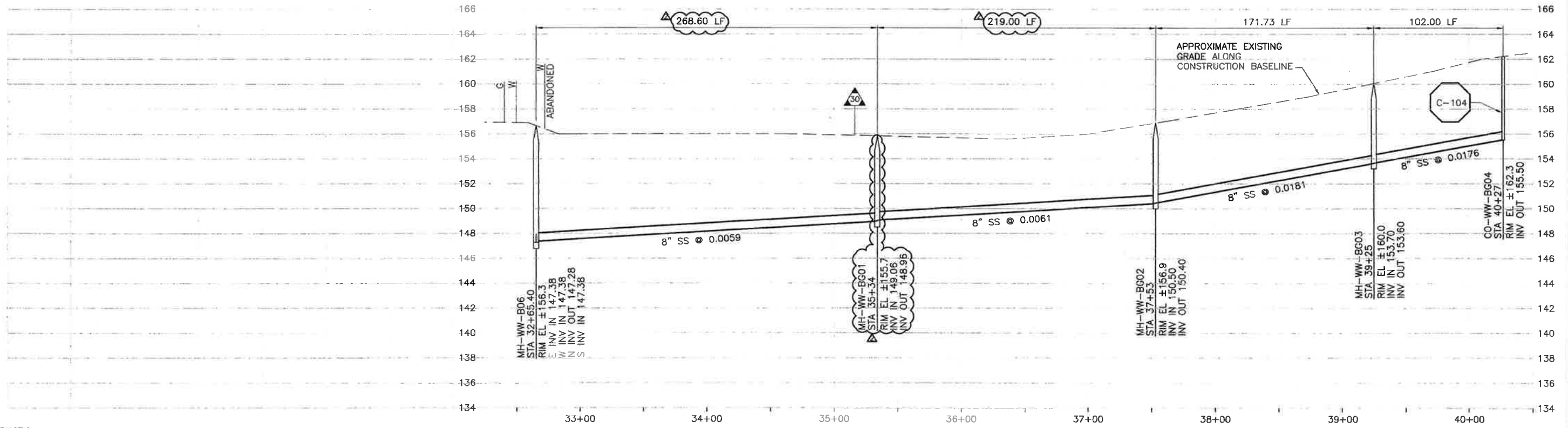
SCALE:
 HORIZ: 1"=40'
 VERT: 1"=4'

A B C D E F G H I J K L

NOTE:
 1. LOW HANGING POWER LINES FROM POLES TO OPPOSITE SIDE OF STREET HOUSES



PLAN ON MAR VISTA DRIVE



PROFILE ON MAR VISTA DRIVE

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REV. NO.	DATE	DRWN	CHKD	REMARKS
1	5/09/13	LLB	RLA	NOC 30 - LATERAL RELOCATIONS
2	4/02/13	LLB	RLA	RFI 73 - MOVE MH TO AVOID WS
3	2/04/13	LLB	RLA	NOC 23 - LATERAL RELOCATION

DESIGNED BY: KS
 DRAWN BY: RLU
 CHECKED BY: RLA
 DATE: APRIL 2012

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 Sacramento, CA 95833
 Tel: (916) 567-9900



0 1/2 1
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LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
MAR VISTA DRIVE
 STA 32+65.40 TO STA 40+27

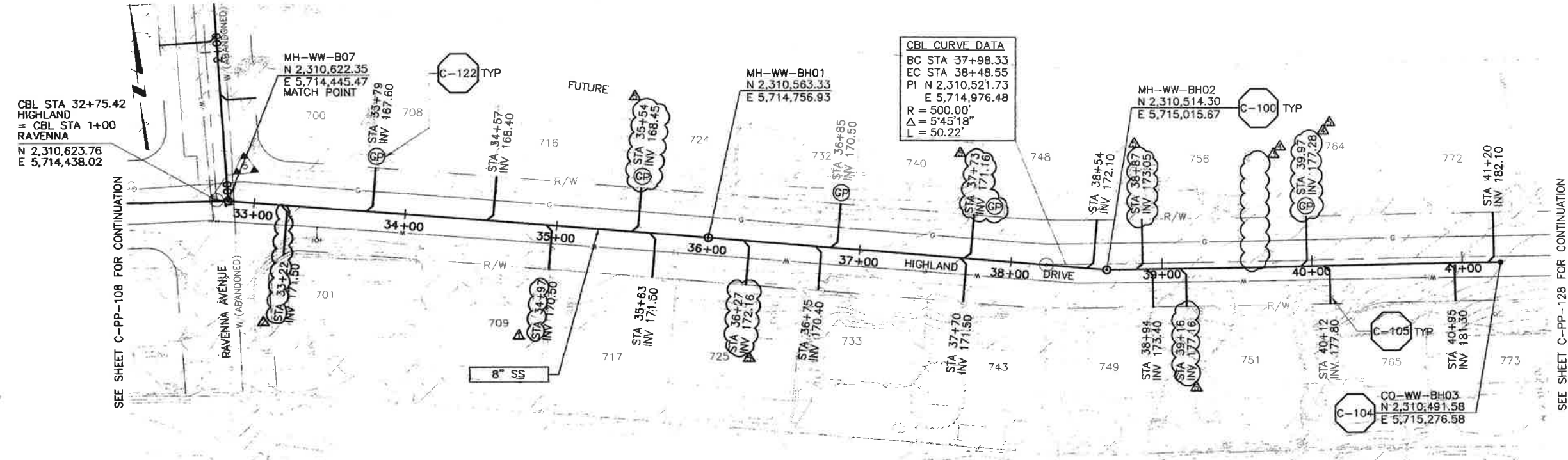
SCALE:
 HORZ: 1"=40'
 VERT: 1"=4'
 PROJECT NO. 42502-B3120
 FILE NAME: C-PP-116
 SHEET NO.
C-PP-116.3

WCC 036

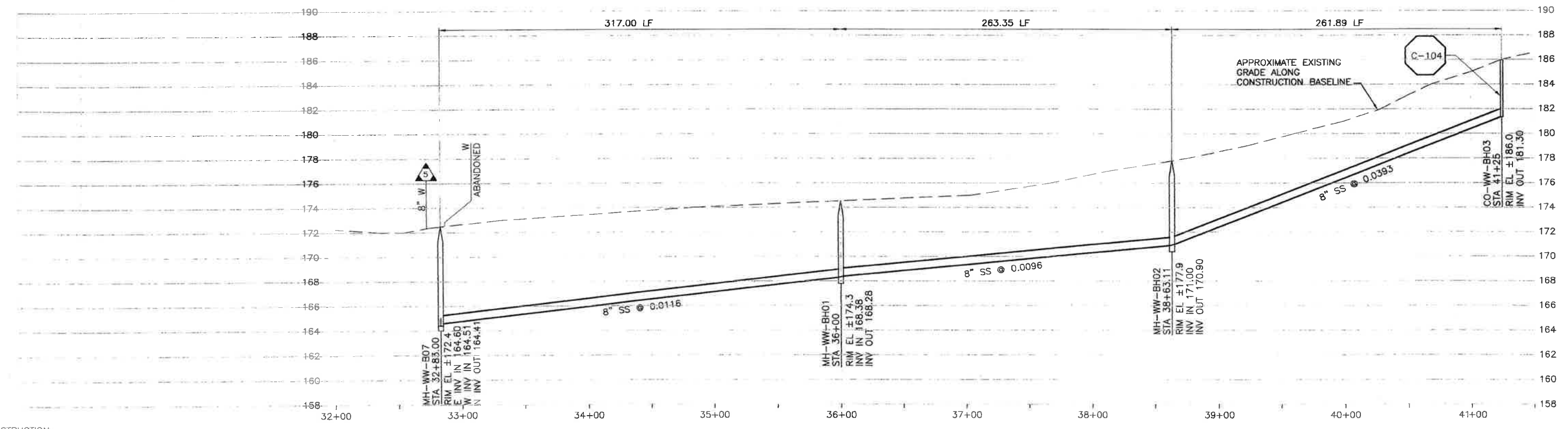
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SEE SHEET C-PP-108 FOR CONTINUATION



PLAN ON HIGHLAND DRIVE



PROFILE ON HIGHLAND DRIVE

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	5/09/13	LLB	RLA	NOC 30 - LATERAL RELOCATIONS
2	4/09/13	LLB	RLA	MEMO 527 - LATERAL RELOCATION
3	2/04/13	LLB	RLA	NOC 23 - ADDED LATERAL
4	12/05/12	LLB	RLA	RNOC 14 - LATERAL RELOCATION
5	11/19/12	LLB	RLA	RNOC 13 - LATERAL RELOCATION

DESIGNED BY: KS
 DRAWN BY: RRU
 CHECKED BY: RLA
 DATE: APRIL 2012

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 Sacramento, CA 95833
 Tel: (916) 567-9900



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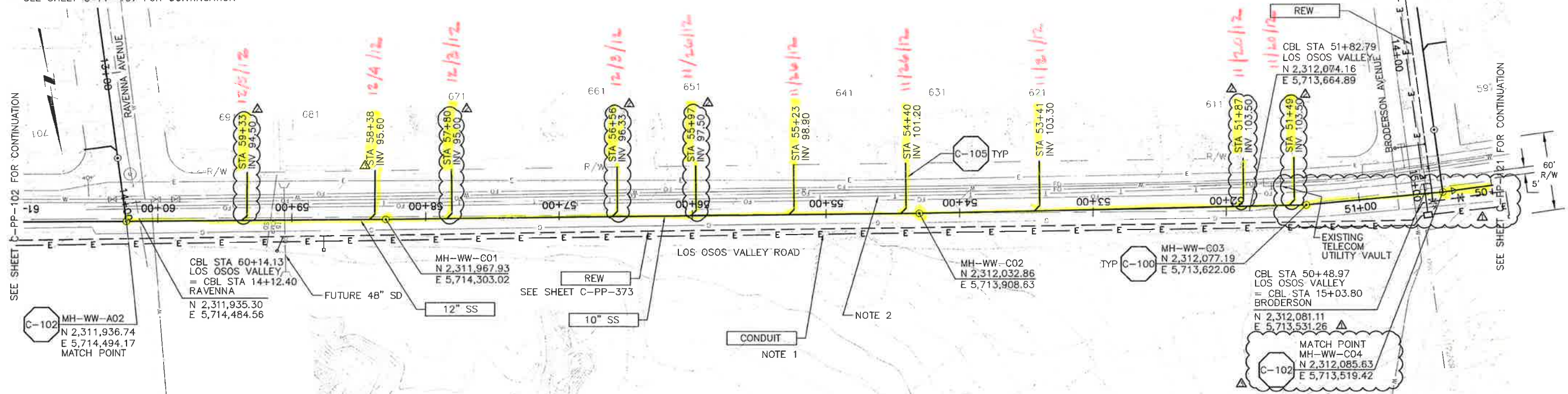


LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE
 HIGHLAND DRIVE
 STA 32+83 TO STA 41+25

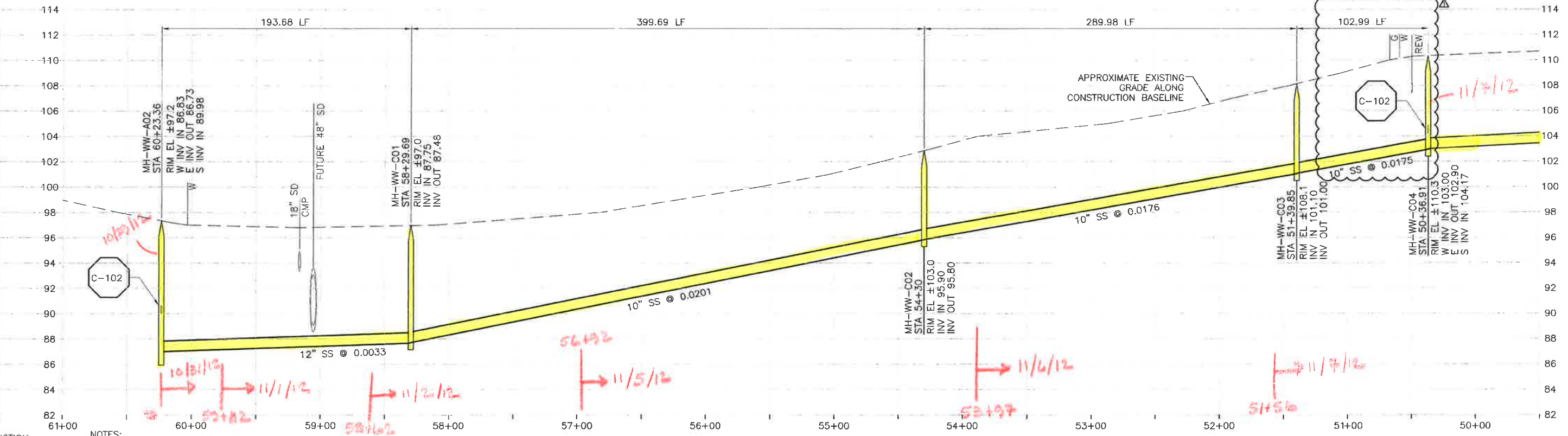
SCALE:
 HORIZ: 1"=40'
 VERT: 1"=4'
 PROJECT NO. 42502-B3120
 FILE NAME: C-PP-117
 SHEET NO.
 C-PP-117.5

SEE SHEET C-PP-107 FOR CONTINUATION

SEE SHEET C-PP-119 FOR CONTINUATION



PLAN ON LOS OSOS VALLEY ROAD



PROFILE ON LOS OSOS VALLEY ROAD

- NOTES:
- REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.
 - MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT MANHOLES.

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

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REV. NO.	DATE	DRWN	CHKD	REMARKS
1	1/22/13	LLB	RLA	MEMO 111 - RELOCATE REW, E, PUT BACK SS TO ORIGINAL LOCATION
2	12/05/12	LLB	RLA	RNOC 14/212 - LATERAL RELOCATIONS
3	11/15/12	LLB	RLA	RELOCATE SS, REW, E

DESIGNED BY: KS
 DRAWN BY: RKU
 CHECKED BY: RLA
 DATE: APRIL 2012

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 Sacramento, CA 95833
 Tel: (916) 567-9900



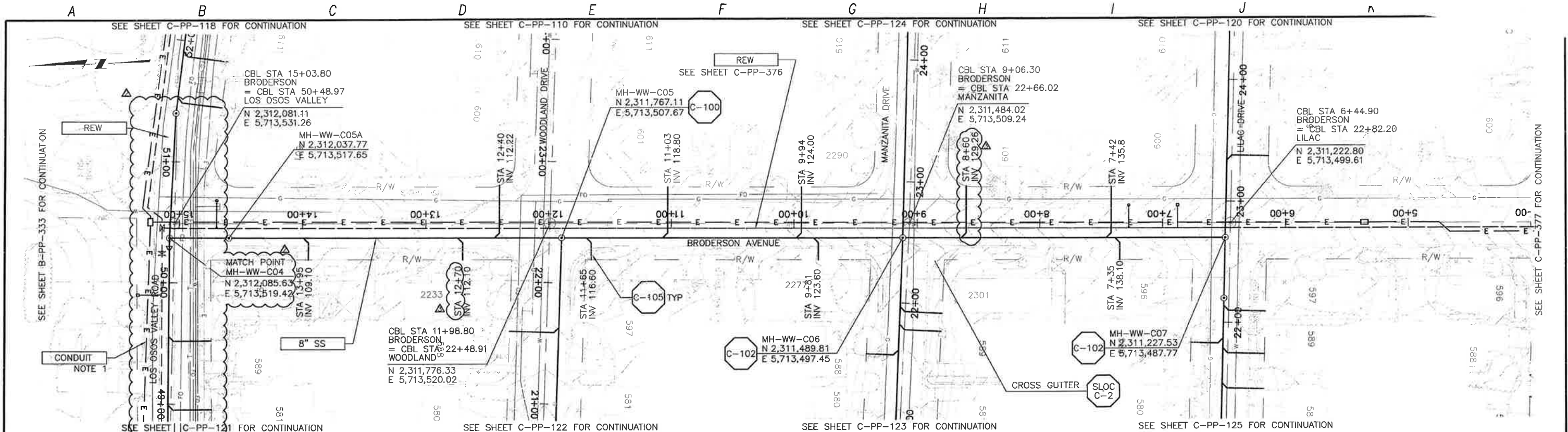
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 IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY



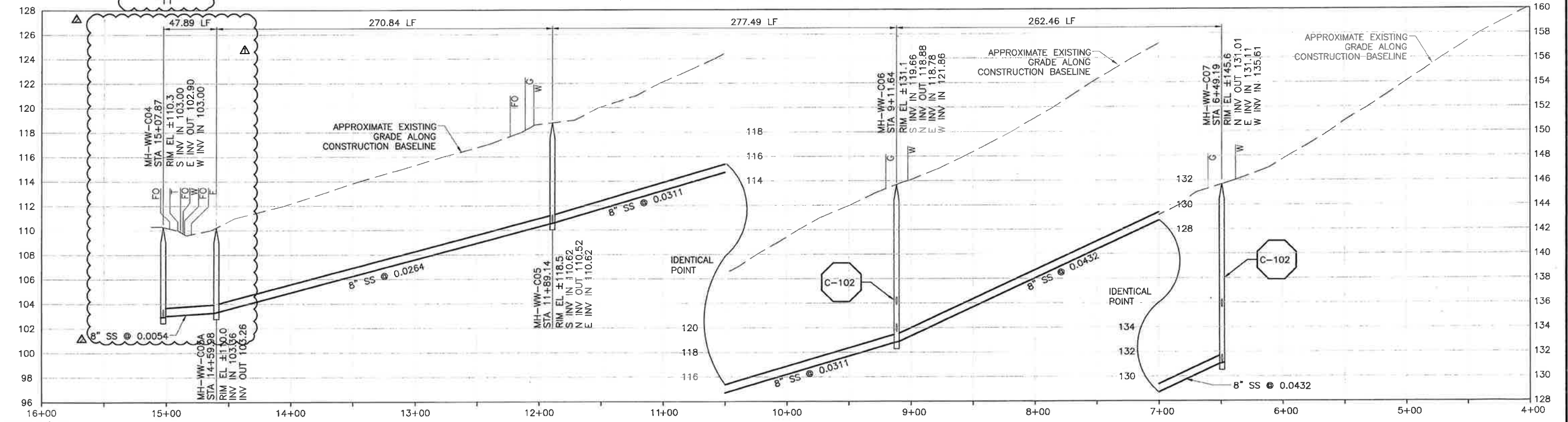
DIGALERT
 DIAL TOLL FREE 1-800-542-2444
 AT LEAST TWO DAYS BEFORE YOU DIG
 UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
 LOS OSOS VALLEY DRIVE
 STA 60+23.36 TO STA 50+36.91

PROJECT NO. 42502-8312C
 FILE NAME: C-PP-118
 SHEET NO. C-PP-118.2



PLAN ON BRODERSON AVENUE



PROFILE ON BRODERSON AVENUE

NOTE:
1. REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.

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REV. NO.	DATE	DRWN	CHKD	REMARKS
1	2/2/13	LLB	RLA	NOC 26 - LATERAL RELOCATION
2	1/22/13	LLB	RLA	MEMO #111 - RELOCATE REW, E, PUT BACK SS TO ORIGINAL LOCATION
3	11/15/12	LLB	RLA	RELOCATED SS, REW, E

DESIGNED BY: KS
 DRAWN BY: RRU
 CHECKED BY: RLA
 DATE: APRIL 2012

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 Sacramento, CA 95833
 Tel: (916) 567-9900



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LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
 BRODERSON AVENUE
 STA 15+07.87 TO STA 6+49.19

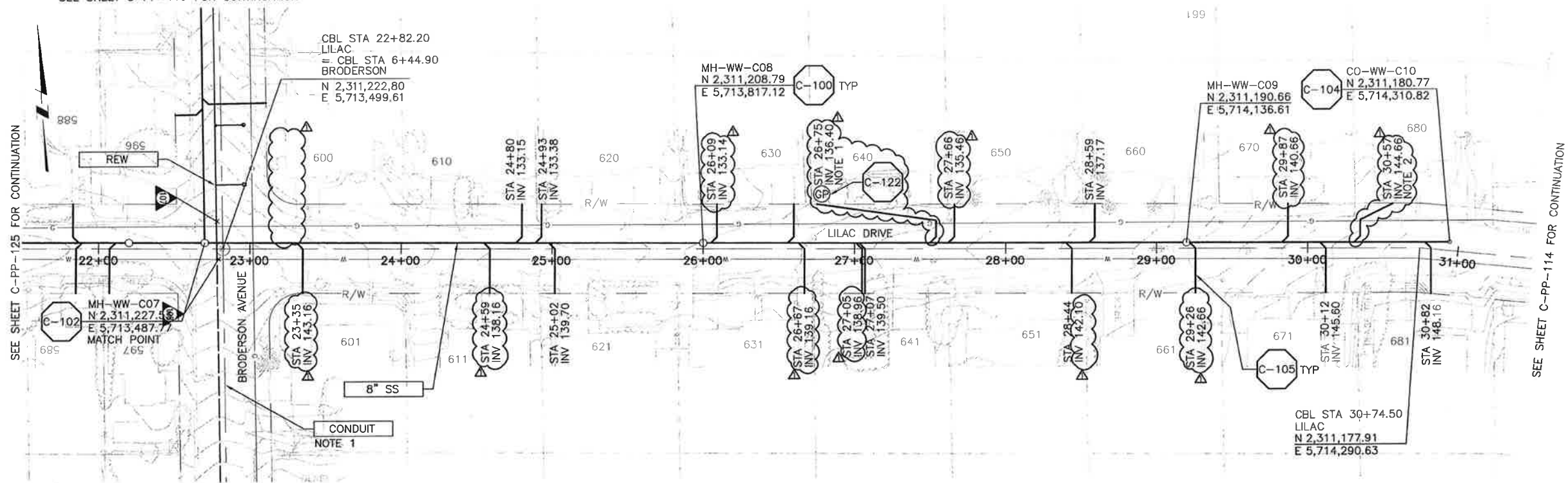
PROJECT NO. 42502-83120	FILE NAME: C-PP-119
SHEET NO.	C-PP-119.2

SCALE:
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 VERT: 1"=4'

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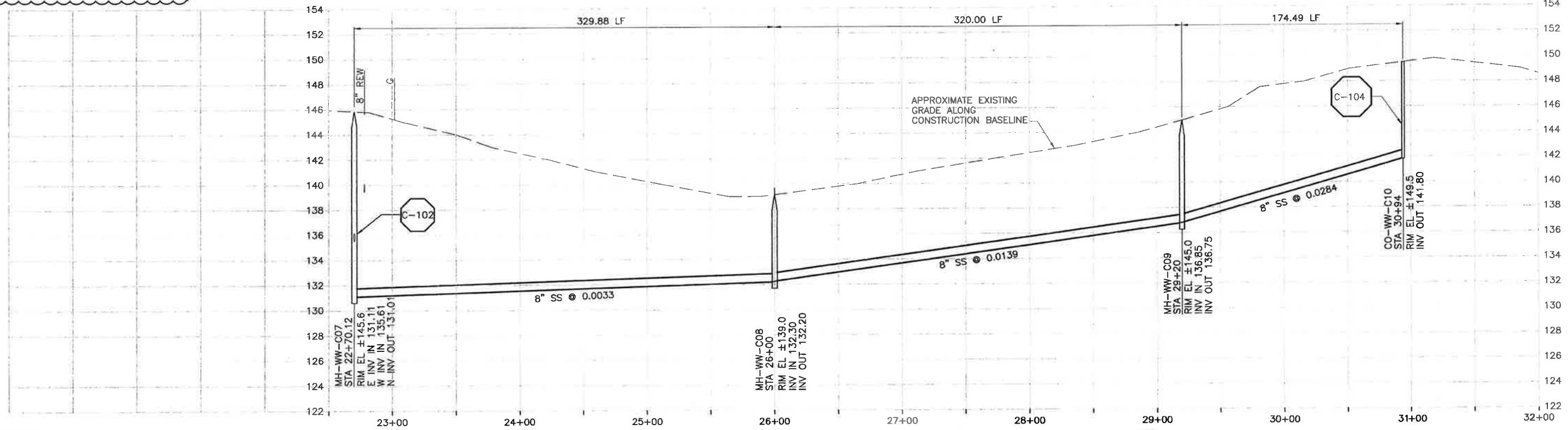
A B C D E F G H I J K L

SEE SHEET C-PP-119 FOR CONTINUATION



- NOTES:**
- CONNECT SEWER TO SS AT STA 27+56.
 - CONNECT SEWER TO SS AT STA 30+35.

PLAN ON LILAC DRIVE



PROFILE ON LILAC DRIVE

CONSTRUCTION BASELINE STATION

- NOTE:**
- REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.

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

REV. NO.	DATE	DRWN	CHKD	REMARKS
5/09/13	LLB	RLA		NOC 30 - LATERAL RELOCATIONS

DESIGNED BY: KS
 DRAWN BY: RKU
 CHECKED BY: RLA
 DATE: APRIL 2012

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 Sacramento, CA 95833
 Tel: (916) 567-9900



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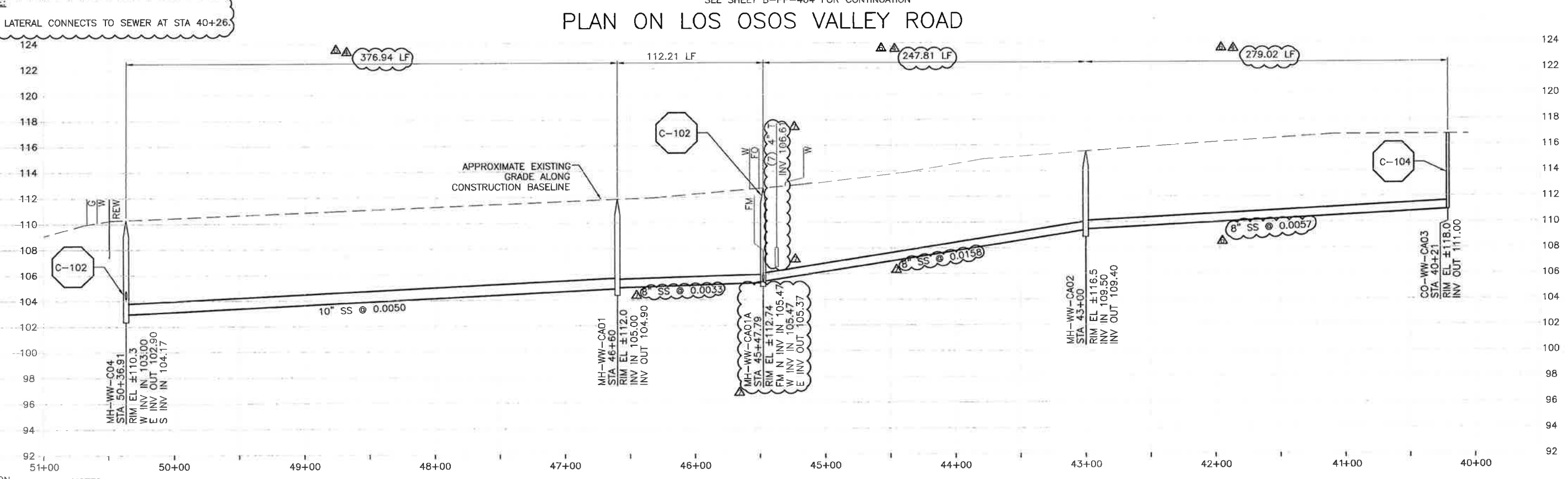
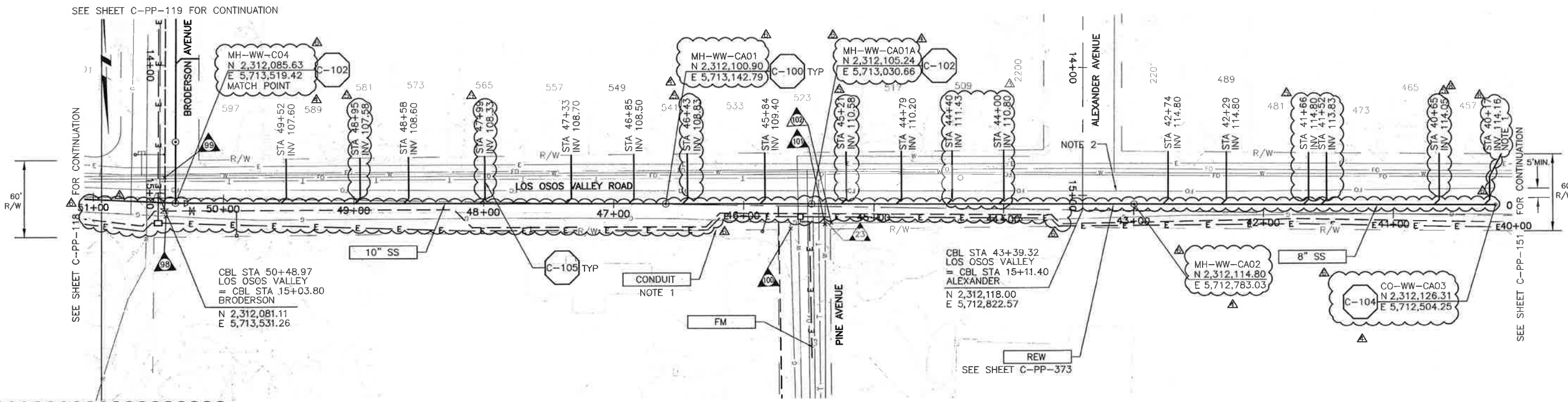
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 UNDERGROUND SERVICE ALERTS OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
LILAC DRIVE
 STA 22+70.12 TO STA 30+94

PROJECT NO. 42502-83120
 FILE NAME: C-PP-120
 SHEET NO.
C-PP-120.1

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CONSTRUCTION BASELINE STATION

NOTES:

- REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.
- MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT MANHOLES.

REV. NO.	DATE	DRWN	CHKD	REMARKS
5/29/13	LLB	RLA		NOC 36 - LATERAL MANHOLES
4/29/13	LLB	RLA		RFI 78 - LOWER SS TO CLEAR TEL
1/22/13	LLB	RLA		MEMO 111 - RELOCATE REW, E, PUT BACK SS TO ORIGINAL LOCATION
12/06/12	LLB	RLA		MEMO 154 - LATERAL RELOCATIONS
11/15/12	LLB	RLA		RELOCATED SS, REW, E

DESIGNED BY: KS

DRAWN BY: RRU

CHECKED BY: RLA

DATE: APRIL 2012

CDM Smith

2295 Gateway Oaks Drive, Suite 240
 Sacramento, CA 95833
 Tel: (916) 567-9900



IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY



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UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM

PLAN AND PROFILE

LOS OSOS VALLEY ROAD

STA 50+36.91 TO STA 40+21

SCALE: HORZ: 1"=40' VERT: 1"=4'

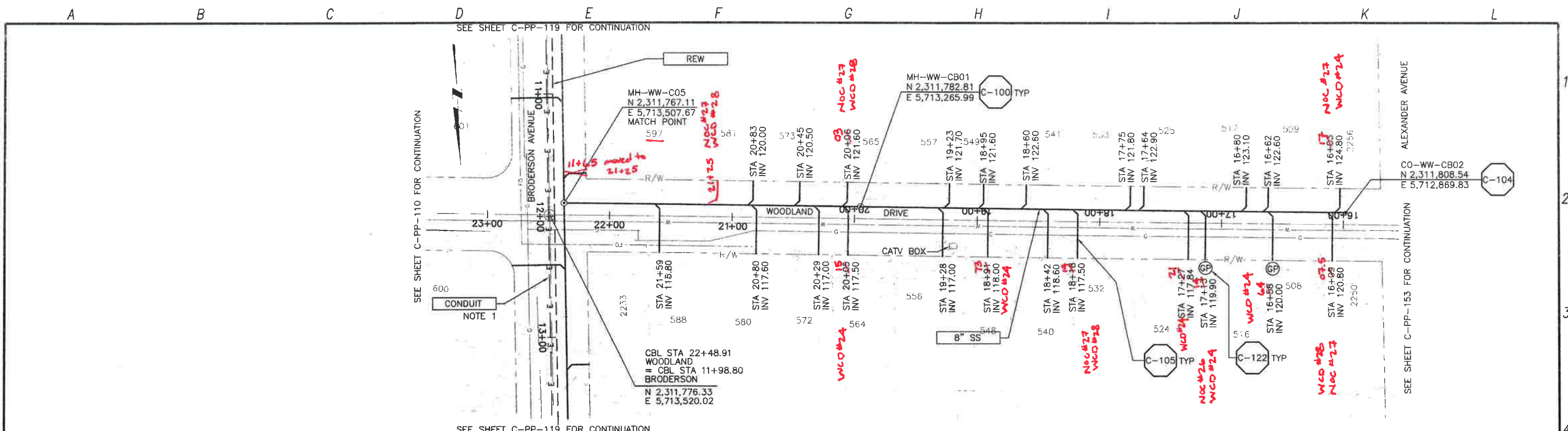
PROJECT NO. 42502-83120

FILE NAME: C-PP-121

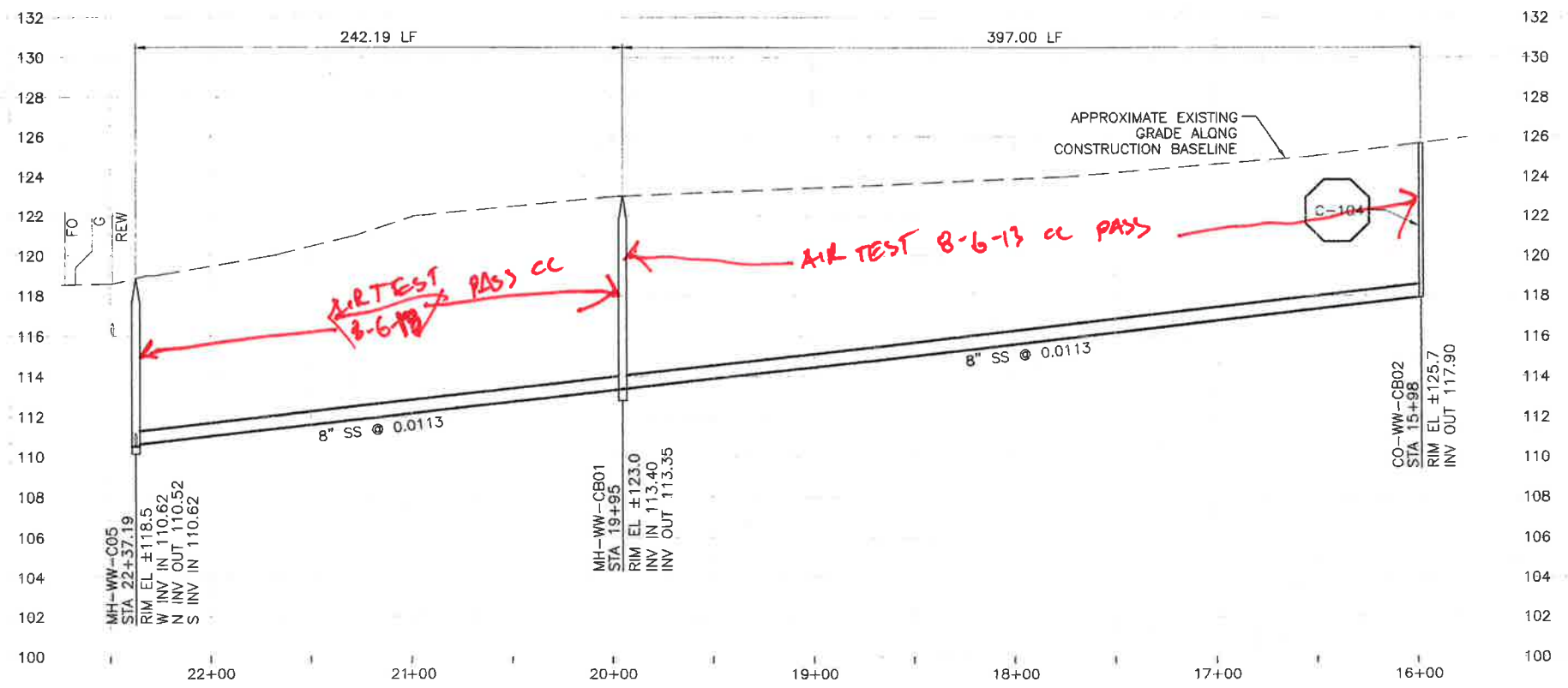
SHEET NO. C-PP-121.4

B21 BLOCK CRAIG'S COPY

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PLAN ON WOODLAND DRIVE



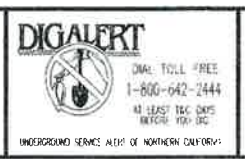
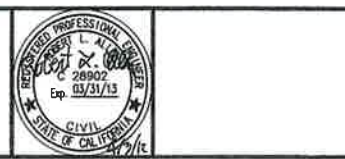
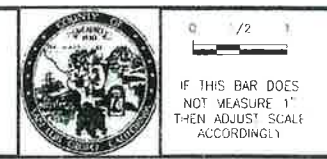
PROFILE ON WOODLAND DRIVE

NOTE:
 1. REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: KS
 DRAWN BY: RKU
 CHECKED BY: RLA
 DATE: APRIL 2012

CDM Smith
 2295 Gateway Oaks Drive, Suite 240
 Sacramento, CA 95833
 Tel: (916) 367-9900

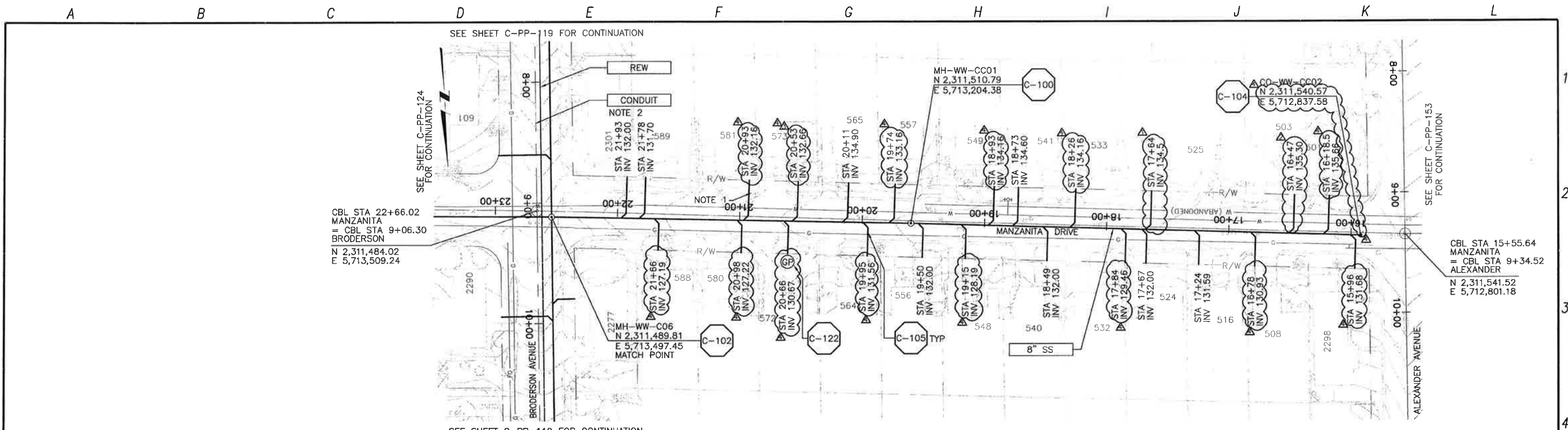


LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE
 WOODLAND DRIVE
 STA 22+37.19 TO STA 15+98

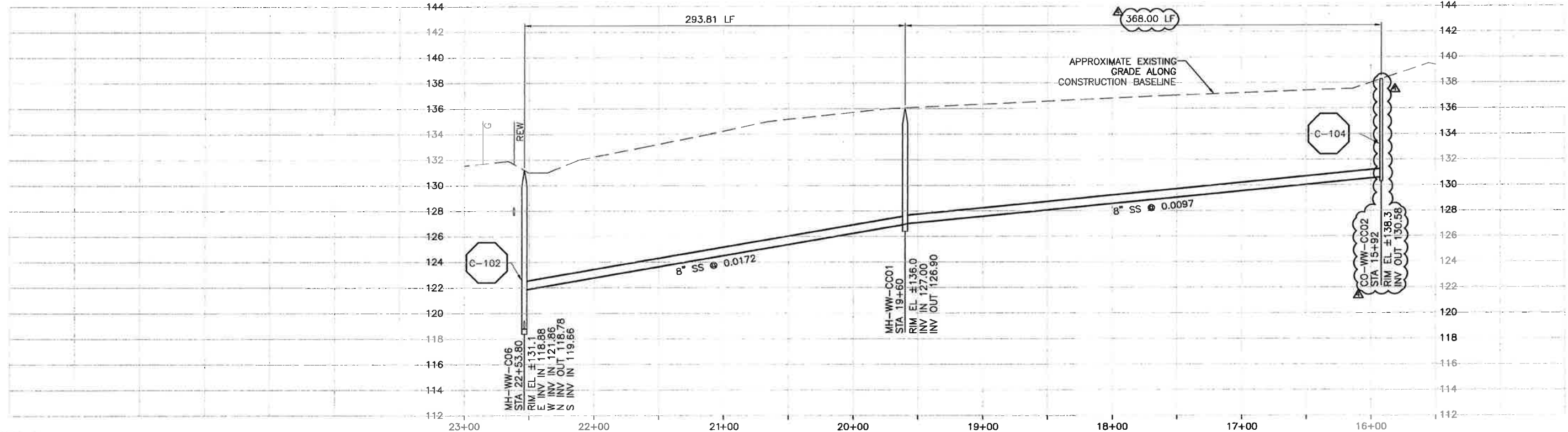
PROJECT NO. 42502-83120
 FILE NAME: C-PP-122
 SHEET NO.
C-PP-122.

SCALE:
 HORZ: 1"=40'
 VERT: 1"=4'

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PLAN ON MANZANITA DRIVE



PROFILE ON MANZANITA DRIVE

- CONSTRUCTION BASELINE STATION
- NOTES:**
- CONTRACTOR SHALL TEMPORARILY SUPPORT EXISTING POWER POLE AS REQUIRED. COORDINATE WITH PG&E.
 - REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.

REV. NO.	DATE	DRWN	CHKD	REMARKS
5/09/13		LLB	RLA	NOC 30 - LATERAL RELOCATIONS
1/10/13		LLB	RLA	RNOC 16 - LATERAL RELOCATION
12/05/12		LLB	RLA	RNOC 14 - LATERAL RELOCATION
11/19/12		LLB	RLA	RNOC 12 - LATERAL RELOCATION

DESIGNED BY: KS
 DRAWN BY: RKU
 CHECKED BY: RLA
 DATE: APRIL 2012

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 Sacramento, CA 95833
 Tel: (916) 567-9900



0 1/2 1
 IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY



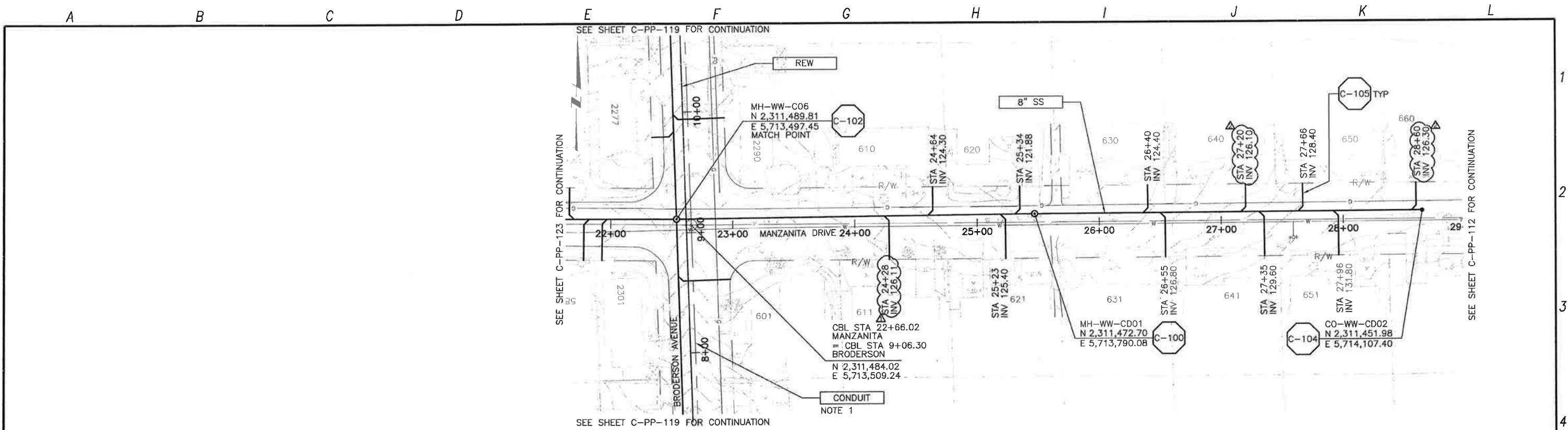
DIGALERT
 DIAL TOLL FREE: 1-800-642-2444
 AT LEAST TWO DAYS BEFORE YOU DIG
 UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

DIGALERT
 DIAL TOLL FREE: 1-800-642-2444
 AT LEAST TWO DAYS BEFORE YOU DIG
 UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

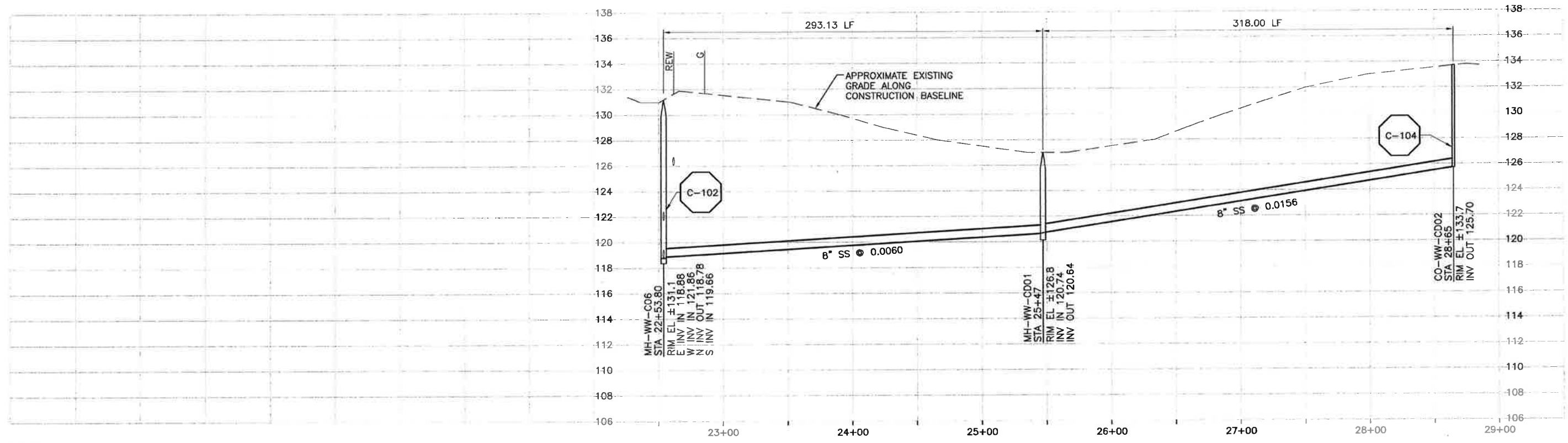
LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
MANZANITA DRIVE
 STA 22+53.80 TO STA 16+01

SCALE: HORZ: 1"=40' VERT: 1"=4'
 PROJECT NO. 42502-83120
 FILE NAME: C-PP-123
 SHEET NO.
C-PP-123.4

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PLAN ON MANZANITA DRIVE



PROFILE ON MANZANITA DRIVE

NOTE:
1. REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.

REV. NO.	DATE	DRWN	CHKD	REMARKS
5/09/13	LLB	MDM		NOC 30 - LATERAL RELOCATION
4/23/13	LLB	MDM		NOC 29 - LATERAL RELOCATION

DESIGNED BY: KS
 DRAWN BY: RLU
 CHECKED BY: RLA
 DATE: APRIL 2012

CDM Smith
 2295 Gateway Oaks Drive, Suite 240
 Sacramento, CA 95833
 Tel: (916) 567-9900



0 1/2 1
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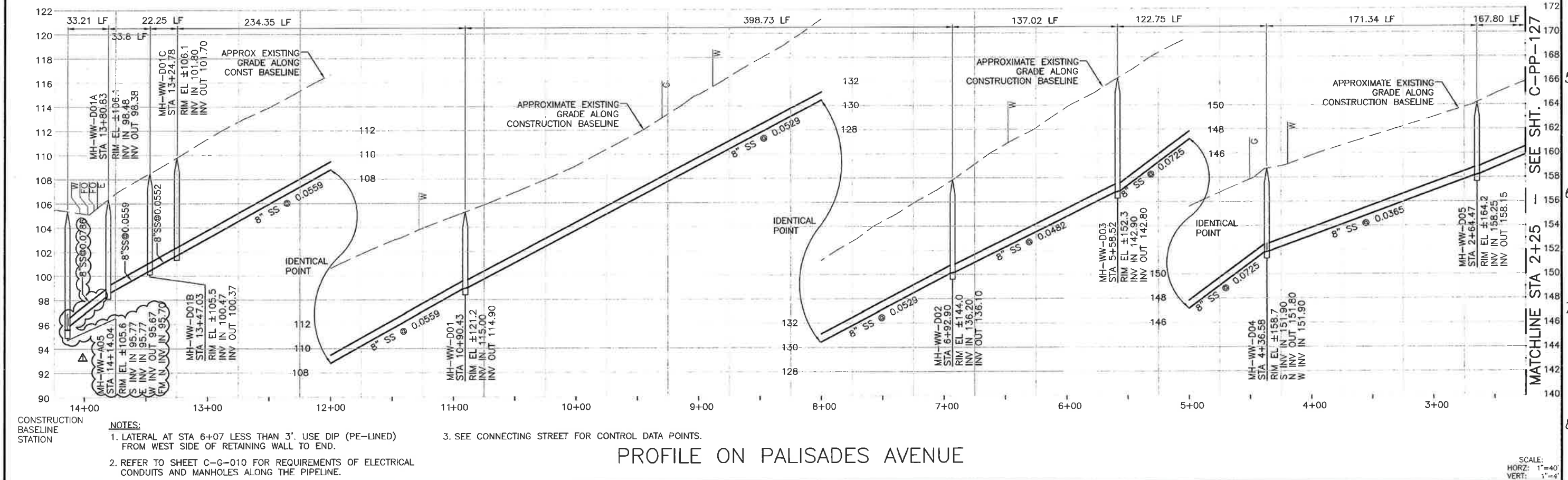
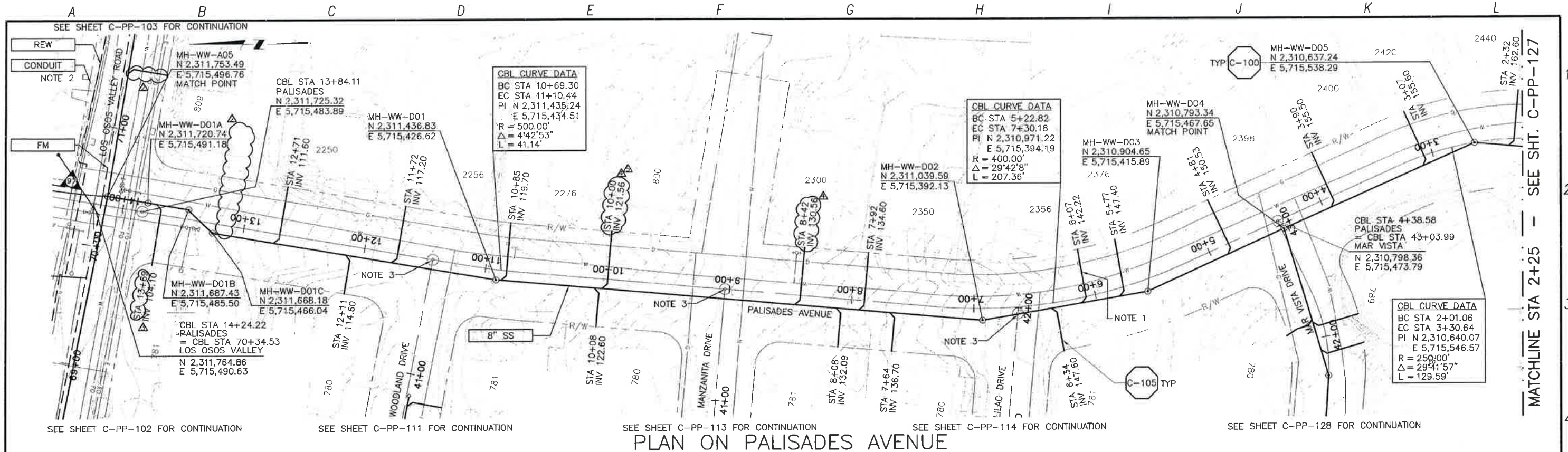


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LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
MANZANITA DRIVE
 STA 22+53.80 TO STA 28+65

SCALE:
 HORZ: 1"=40'
 VERT: 1"=4'
 PROJECT NO. 42502-83120
 FILE NAME: C-PP-124
 SHEET NO.
C-PP-124.2

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CONSTRUCTION BASELINE STATION

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	11/19/13	LLB	RLA	NOC 61 - LATERAL RELOCATION
2	4/23/13	LLB	RLA	NOC 29 - LATERAL RELOCATIONS
3	2/14/13	LLB	RLA	DCM 29 - REVISE LATERAL STATIONING
4	1/22/13	LLB	RLA	NOC 19 - LATERAL RELOCATION
5	12/12/12	LLB	RLA	RFI 30 LOWER SEWER

DESIGNED BY: _____ KS
 DRAWN BY: _____ RLU
 CHECKED BY: _____ RLA
 DATE: _____ APRIL 2012

CDM Smith
 2295 Gateway Oaks Drive, Suite 240
 Sacramento, CA 95833
 Tel: (916) 967-9900

0 1/2 1

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REGISTERED PROFESSIONAL ENGINEER
 L. A. SMITH
 No. 26902
 Exp. 03/31/15
 CIVIL
 STATE OF CALIFORNIA

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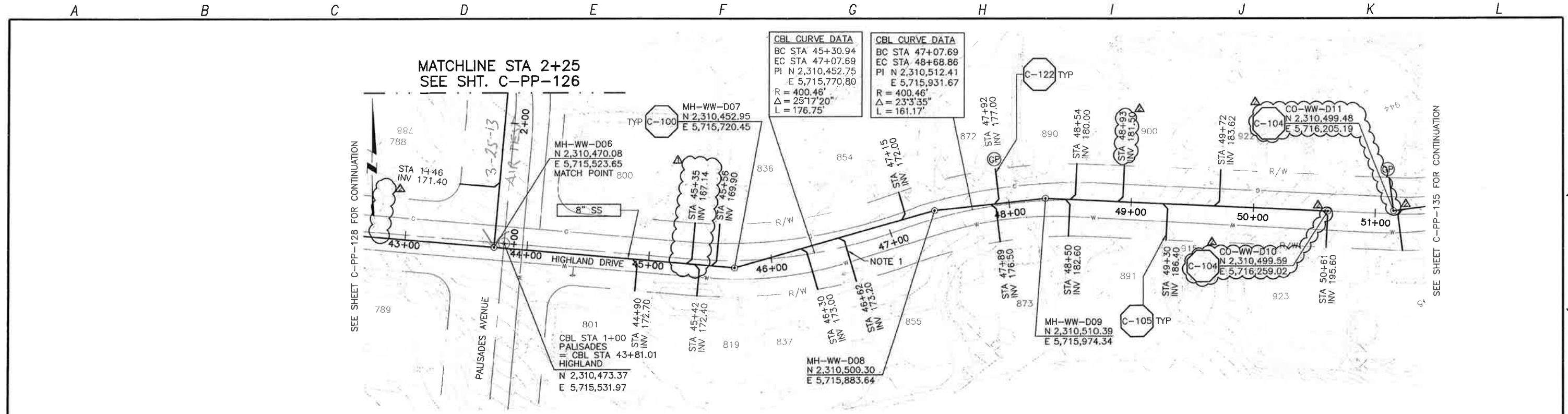
SCALE:
 HORIZ: 1"=40'
 VERT: 1"=4'

LOS OSOS WASTEWATER COLLECTION SYSTEM
**PLAN AND PROFILE
 PALISADES AVENUE**
 STA 14+17.21 TO STA 2+25

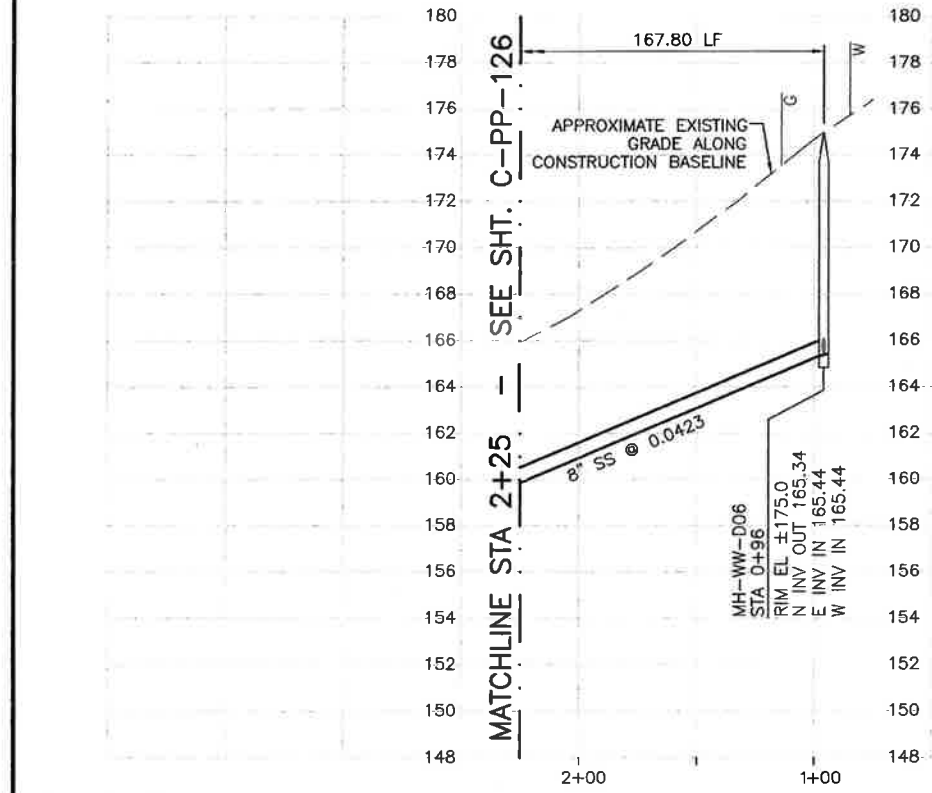
PROJECT NO. 42502-83120
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 SHEET NO.
C-PP-126.5

WCD 034

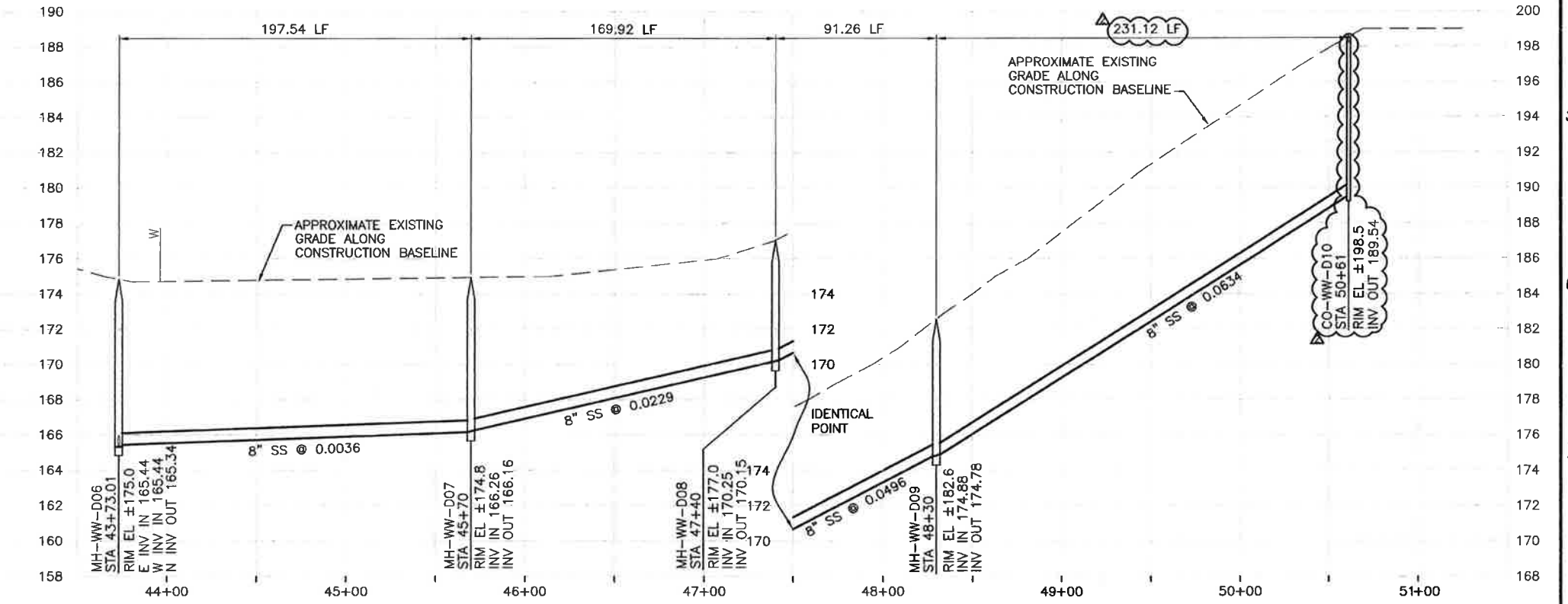
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PLAN ON HIGHLAND DRIVE AND PALISADES AVENUE



PROFILE ON PALISADES AVENUE



PROFILE ON HIGHLAND DRIVE

- NOTES:**
- CONTRACTOR SHALL TEMPORARILY RELOCATE EXISTING PP GUY WIRE/ANCHOR AS NEEDED FOR LATERAL INSTALLATION.

REV. NO.	DATE	DRWN	CHKD	REMARKS
5/21/13	LLB	RLA	NOC 32 - LATERAL RELOCATIONS	
11/06/12	VCS	RLA	LATERAL RELOCATION	

DESIGNED BY: KS
 DRAWN BY: RKC
 CHECKED BY: RLA
 DATE: APRIL 2012

CDM Smith
 2235 Gateway Oaks Drive, Suite 240
 Sacramento, CA 95833
 Tel: (916) 567-9900



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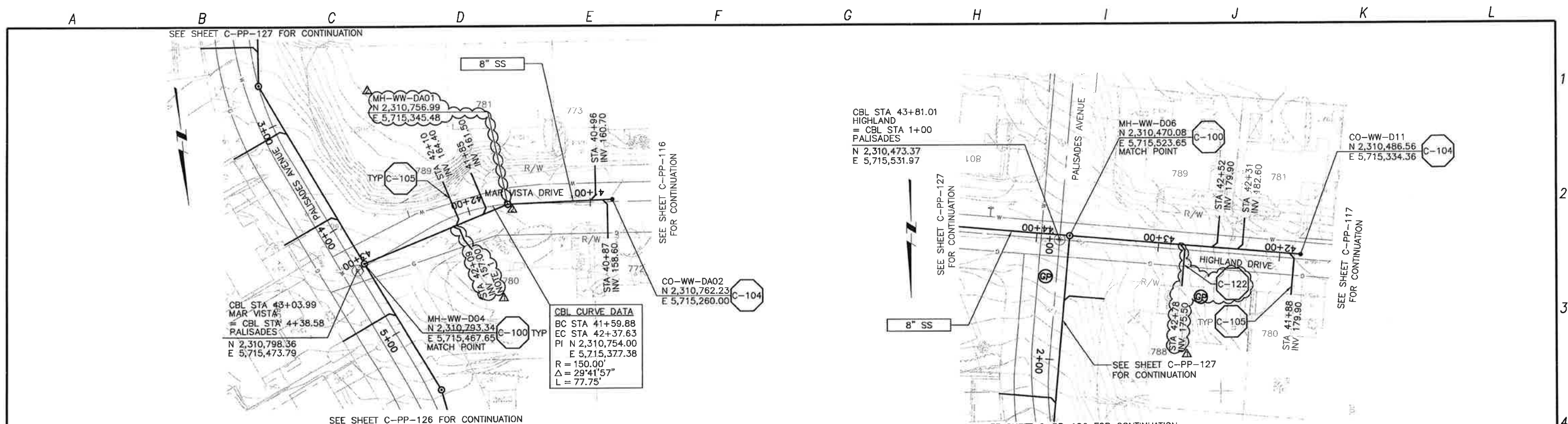
DIGALERT
 1-800-642-2444
 AT LEAST TWO DAYS BEFORE YOU DIG
 UNDERGROUND SERVICE ALERTS OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
 HIGHLAND DR - 43+73.01 TO 51+00
 PALISADES AVE - 2+25 TO 0+96

PROJECT NO. 42502-83120
 FILE NAME: C-PP-127
 SHEET NO. C-PP-127.1

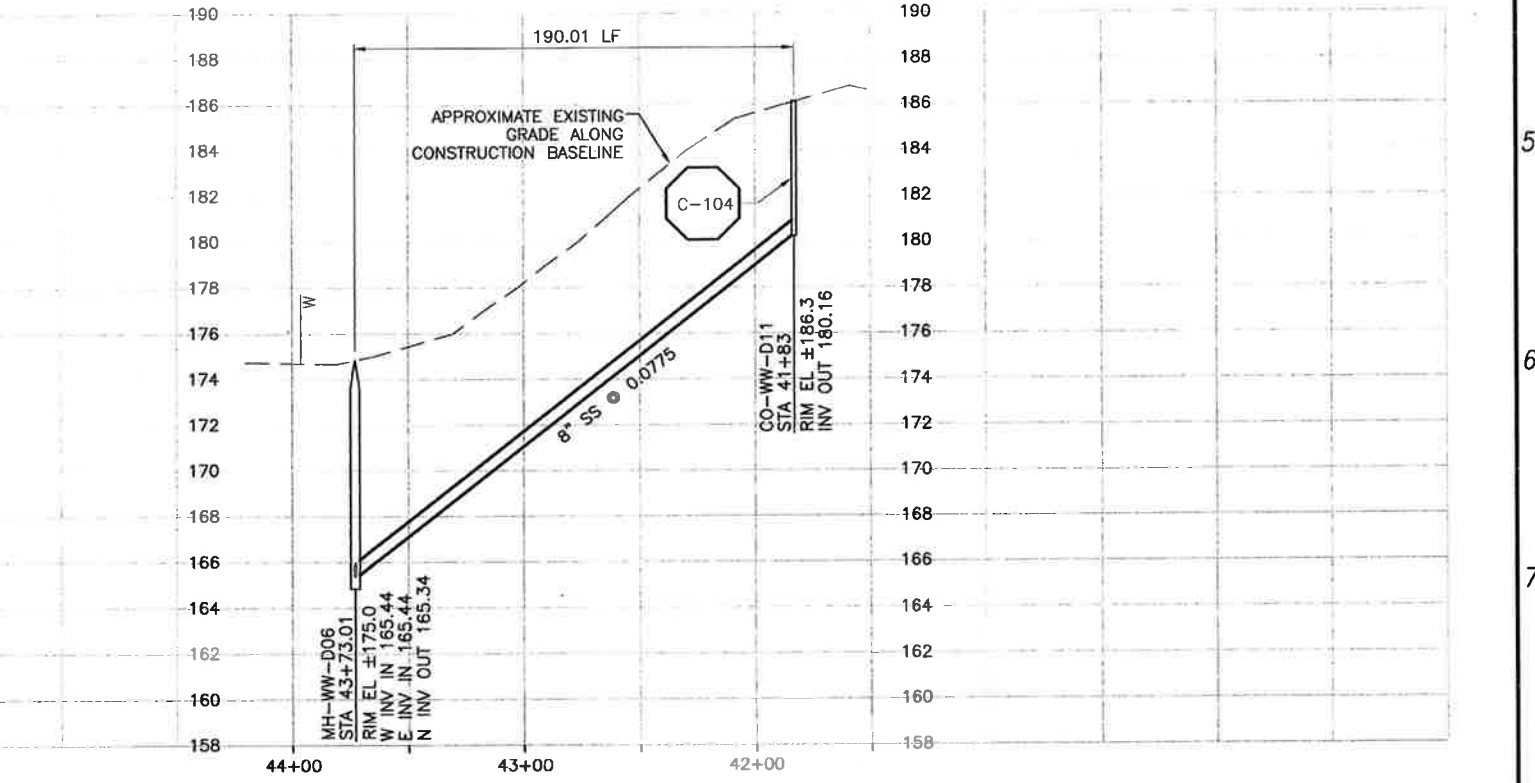
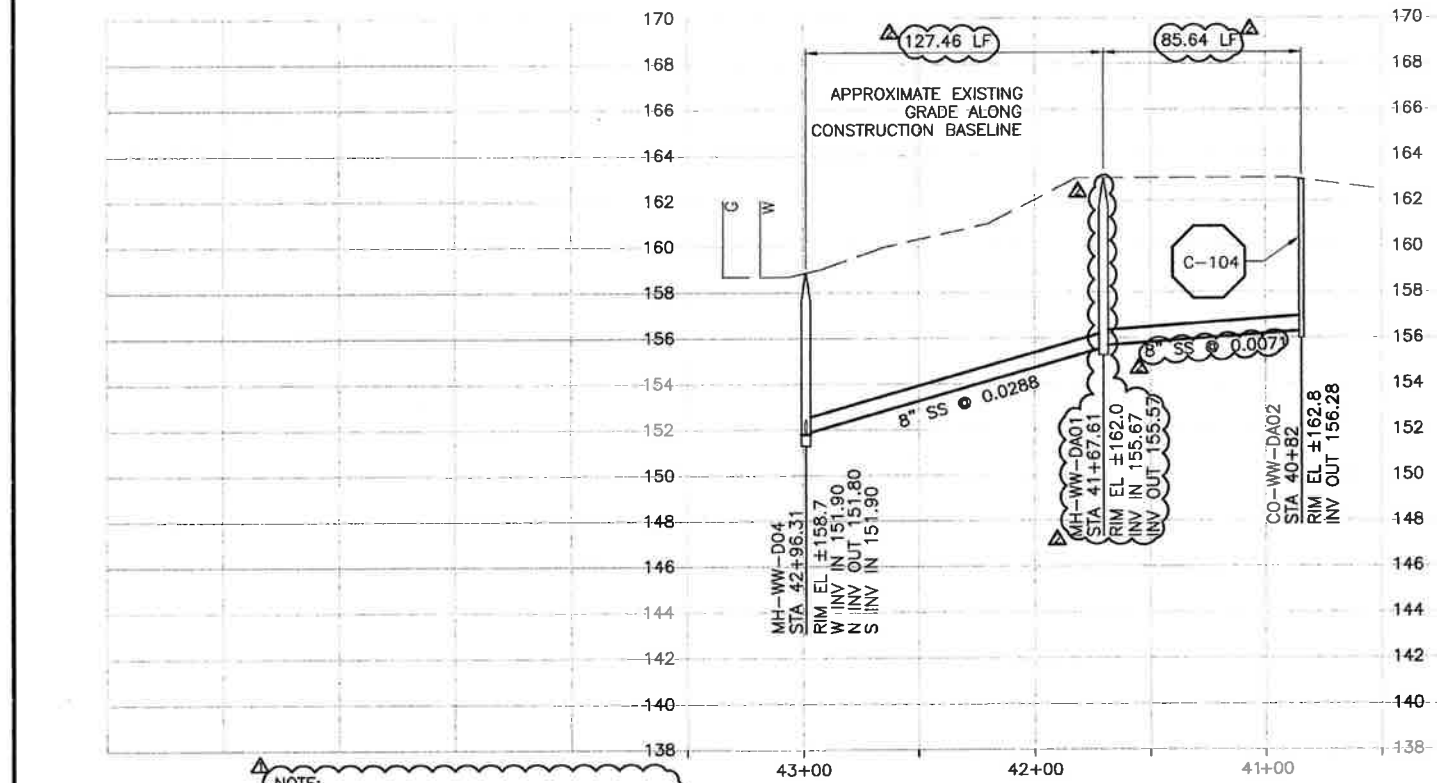
SCALE:
 HORIZ: 1"=40'
 VERT: 1"=4'

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PLAN ON MAR VISTA DRIVE

PLAN ON HIGHLAND DRIVE



PROFILE ON MAR VISTA DRIVE

PROFILE ON HIGHLAND DRIVE

NOTE:
1. LATERAL CONNECTS TO SS AT STA 42+12.

REV. NO.	DATE	DRWN	CHKD	REMARKS
5/01/13	LLB	RLA	DCM 37 - MOVE MH TO CLEAR WS	
5/01/13	LLB	RLA	NOC 30 - LATERAL RELOCATIONS	

DESIGNED BY: KS
 DRAWN BY: RLU
 CHECKED BY: RLA
 DATE: APRIL 2012

CDM Smith
 2295 Gateway Oaks Drive, Suite 240
 Sacramento, CA 95833
 Tel: (916) 567-9900

0 1/2 1
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PROFESSIONAL SEAL
 C 28902
 Exp. 03/31/15
 5/2/13
 CIVIL
 STATE OF CALIFORNIA

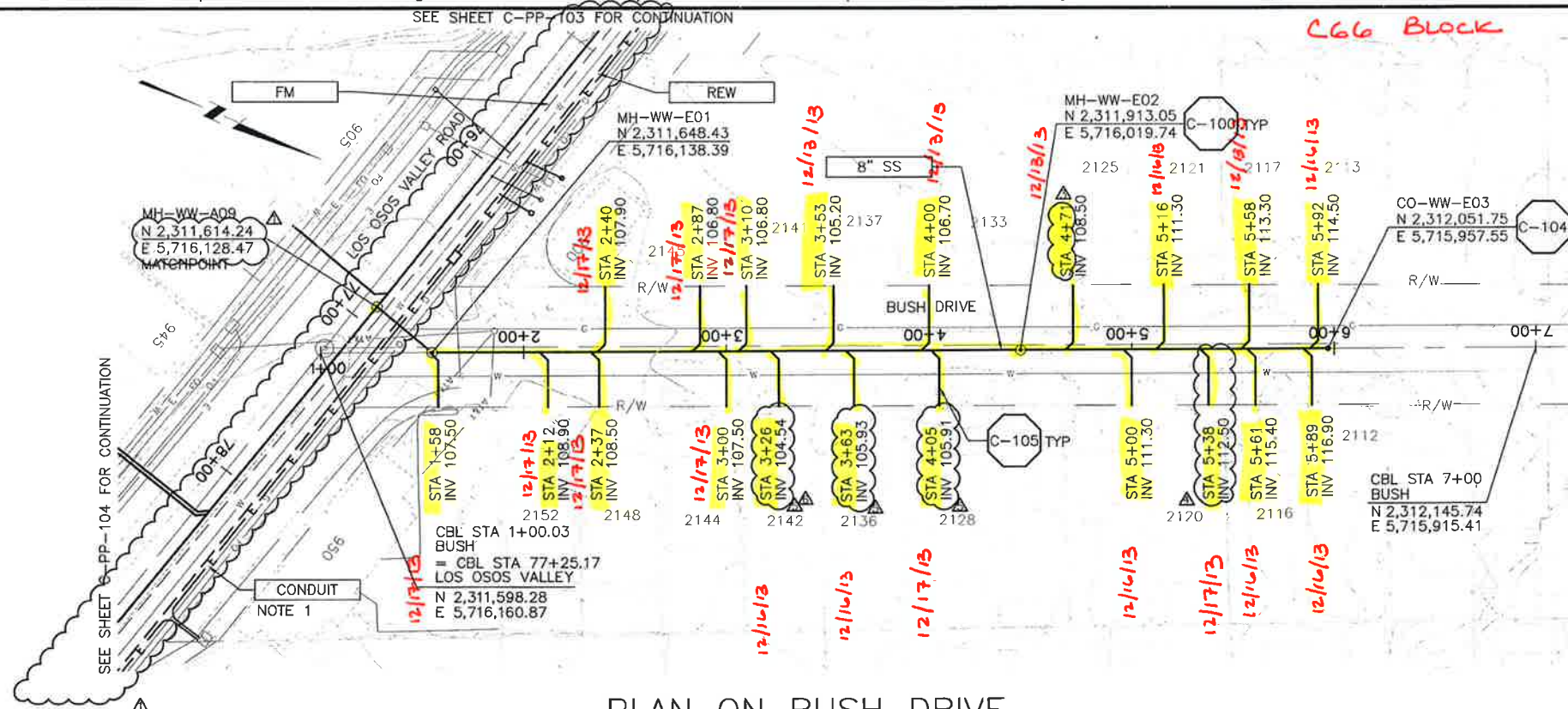
DIGAlert
 DIAL TOLL FREE
 1-800-642-2444
 AT LEAST TWO DAYS BEFORE YOU DIG
 UNDERGROUND SERVICE ALERT OF HAZARDOUS UTILITIES

LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
 MAR VISTA DR - 42+96.31 TO 40+82
 HIGHLAND DR - 43+73.01 TO 41+83

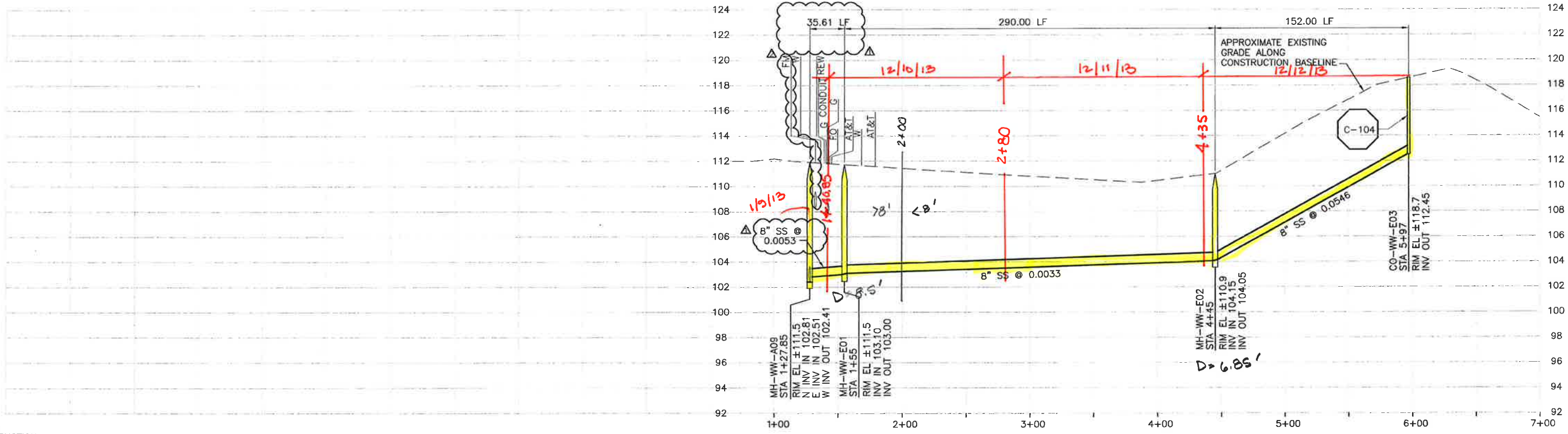
SCALE:
 HORZ: 1"=40'
 VERT: 1"=4'
 PROJECT NO. 42502-83120
 FILE NAME: C-PP-128
 SHEET NO.
C-PP-128.1

A B C D E F G H I J K L

NOTE:
1. LOW HANGING OH ALONG STREET.



PLAN ON BUSH DRIVE



PROFILE ON BUSH DRIVE

NOTE:
1. REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.

SCALE:
HORZ: 1"=40'
VERT: 1"=4'

CONSTRUCTION
BASELINE
STATION

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REV. NO.	DATE	DRWN	CHKD	REMARKS
1	5/21/13	LLB	RLA	NOC 32 - LATERAL RELOCATION
2	4/23/13	LLB	RLA	NOC 29 - LATERAL RELOCATIONS
3	2/11/13	LLB	RLA	DCM 21 - ADD LATERAL
4	2/04/13	LLB	RLA	NOC 23 - LATERAL RELOCATION
5	1/10/13	LLB	RLA	UPDATE LOCATION OF FM IN PROFILE

DESIGNED BY: KS
DRAWN BY: RKU
CHECKED BY: RLA
DATE: APRIL 2012

CDM Smith
2295 Gateway Oaks Drive, Suite 240
Sacramento, CA 95833
Tel: (916) 667-9900



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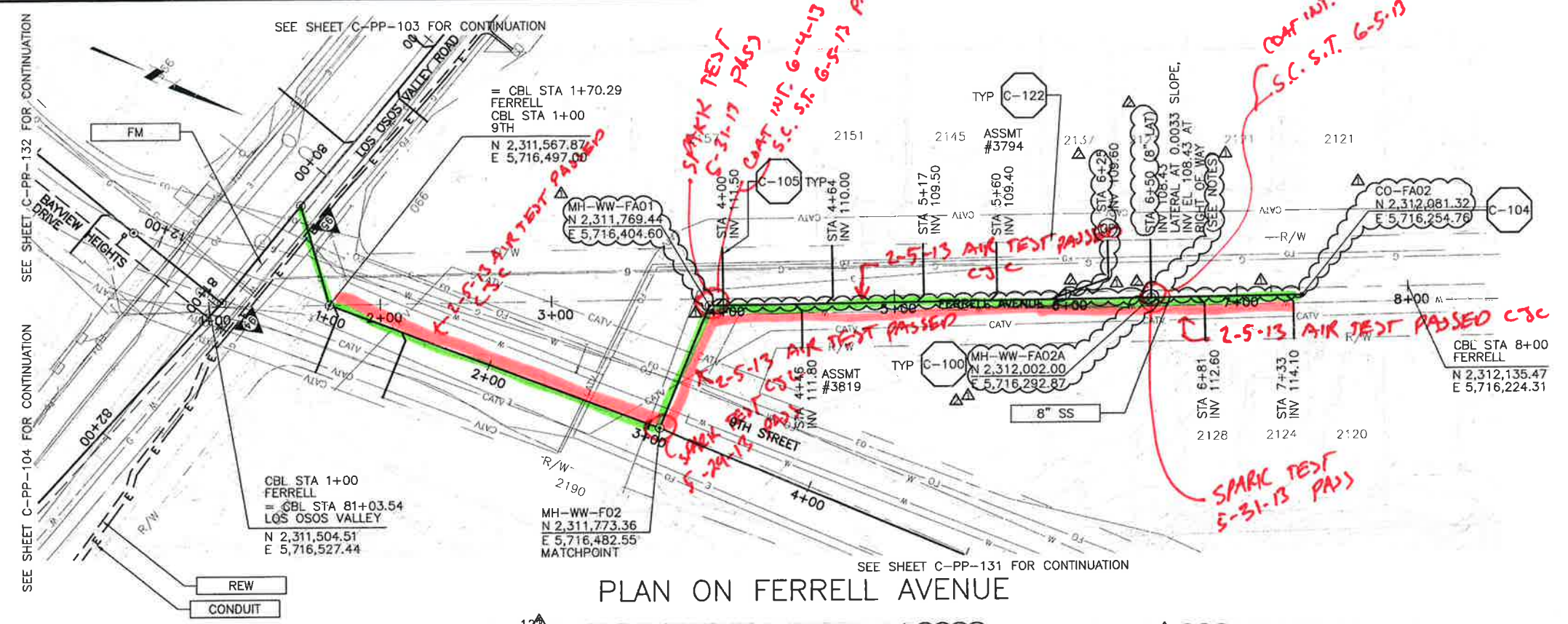
DIGALERT
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1-800-642-2444
AT LEAST TWO DAYS BEFORE YOU DIG.
UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
BUSH DRIVE
STA 1+11.90 TO STA 5+97

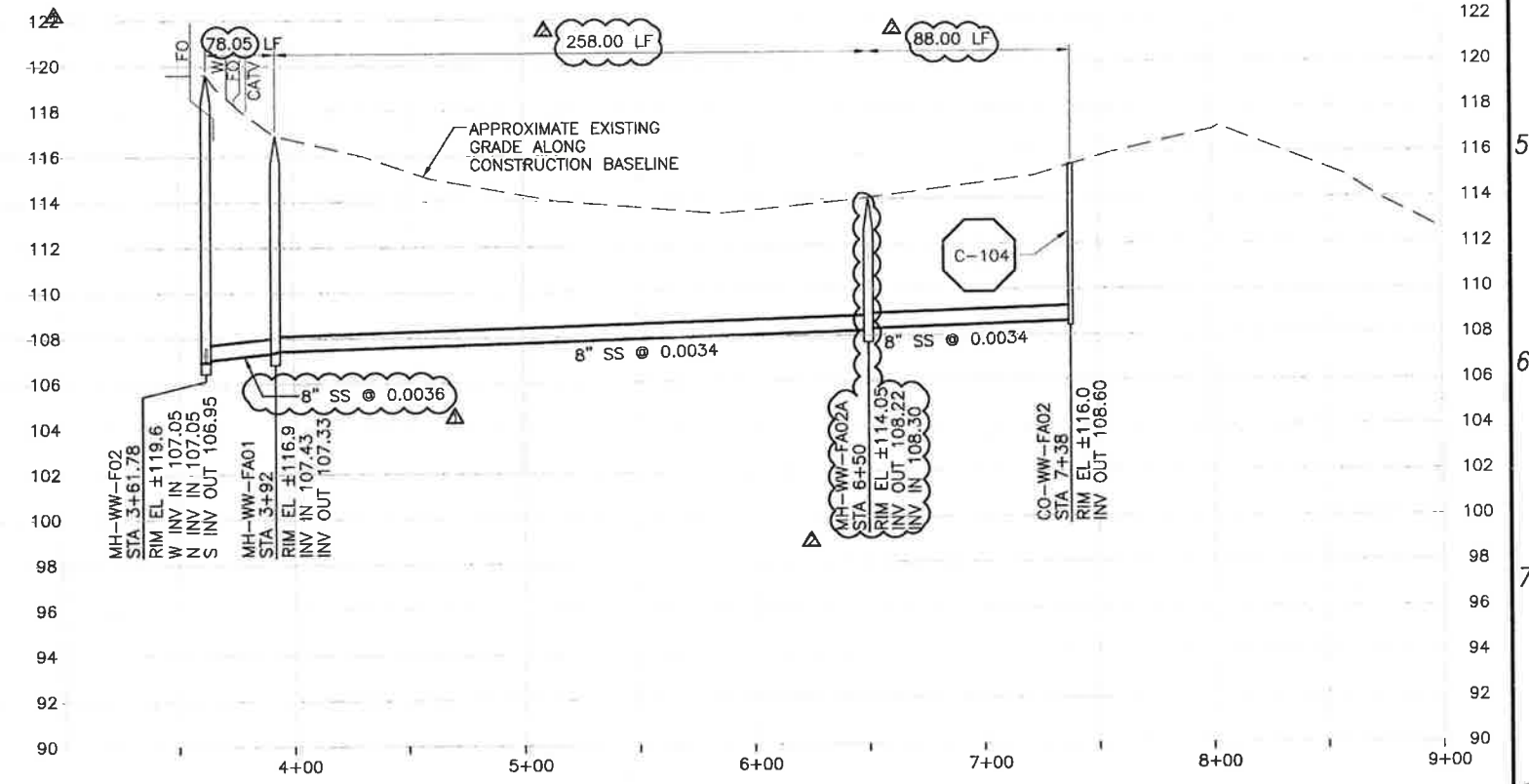
PROJECT NO. 42502-83120
FILE NAME: C-PP-129
SHEET NO.
C-PP-129.5

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NOTES:
 1. CORE HOLE IN WEST SIDE OF MH WW-FA02A TO INSTALL 8" LATERAL AT STA 6+50 LT WITH INVERT ELEV 108.30.
 2. RECONSTRUCT MH CHANNEL PER DET C-101 ON SHEET C-CG-060.



PLAN ON FERRELL AVENUE



PROFILE ON FERRELL AVENUE

CONSTRUCTION BASELINE STATION

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	12/28/12	LLB	RLA	WCD 15 - MOVE MH AND LATERAL
2	12/17/12	LLB	RLA	RFI 32 - GAS LINE CONFLICT/RELOCATE SEWER LINE & WCD 12 - CORE MH

DESIGNED BY: KS
 DRAWN BY: RKU
 CHECKED BY: RLA
 DATE: APRIL 2012

CDM Smith
 2295 Gateway Oaks Drive, Suite 240
 Sacramento, CA 95833
 Tel: (916) 567-8900



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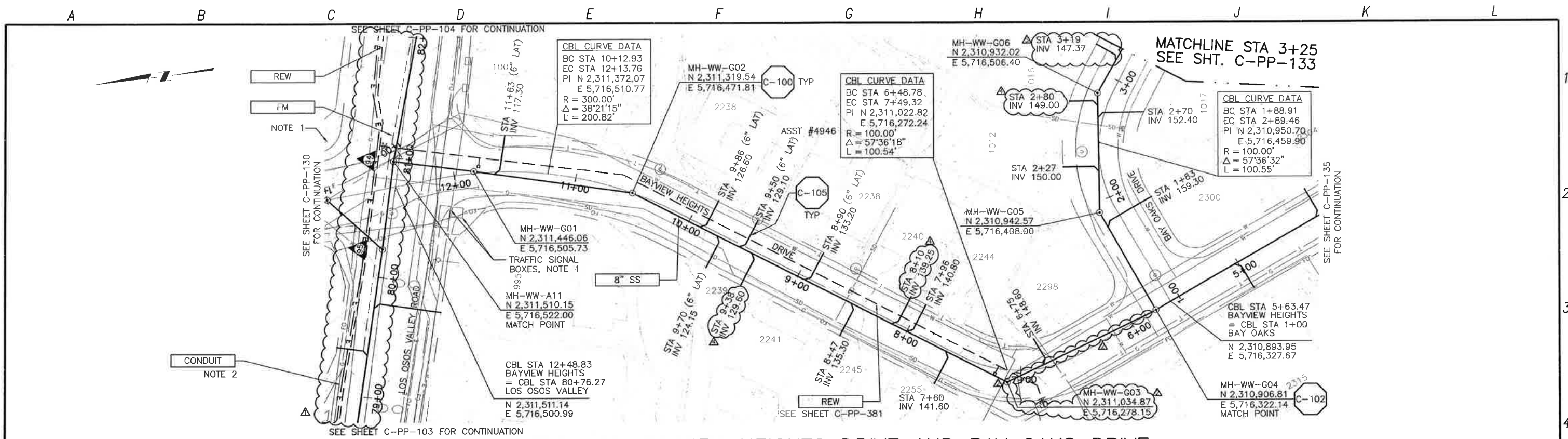
DIGAULT
 DIAL TOLL FREE 1-800-642-2444
 AT LEAST TWO DAYS BEFORE YOU DIG
 UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE
 FERRELL AVENUE
 STA 3+61.78 TO STA 7+38

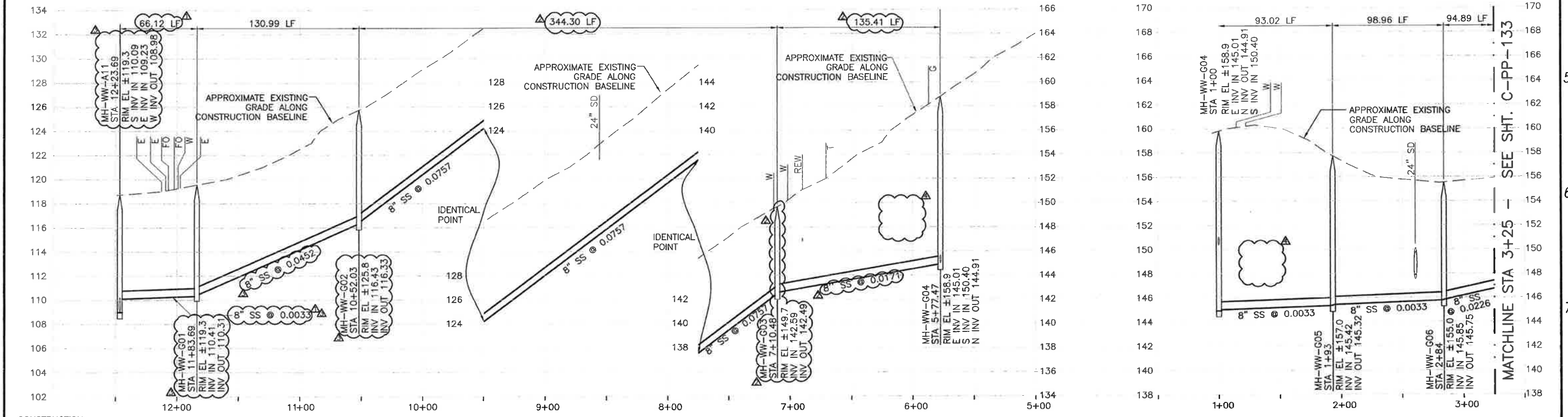
PROJECT NO. 42502-83120
 FILE NAME: C-PP-130
 SHEET NO.
C-PP-130.2

SCALE:
 HORZ: 1"=40'
 VERT: 1"=4'

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PLAN ON BAYVIEW HEIGHTS DRIVE AND BAY OAKS DRIVE



- NOTES:**
- CONTRACTOR SHALL REPAIR EXISTING TRAFFIC CONTROL SYSTEM, INCLUDING INSTALLING NEW DETECTOR LOOPS, WHERE CONSTRUCTION RESULTS IN DAMAGE TO EXISTING SYSTEM. CONTRACTOR SHALL COORDINATE REPAIRS WITH COUNTY OF SAN LUIS OBISPO.
 - REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.

5/30/13	LLB	RLA	NOC 37 - LATERAL RELOCATION	
5/28/13	LLB	RLA	NOC 33 - LATERAL RELOCATIONS	
5/02/13	LLB	RLA	RFI 84 - RAISE SS TO CLEAR TEL	
5/02/13	LLB	RLA	RFI 83 - MOVE MH TO CLEAR GAS	
11/05/12	LLB	RLA	RELOCATE SEWER AND FM	
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: KS
 DRAWN BY: RLU
 CHECKED BY: RLA
 DATE: APRIL 2012

CDM Smith
 2295 Gateway Oaks Drive, Suite 240
 Sacramento, CA 95833
 Tel: (916) 667-9900

IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY

REGISTERED PROFESSIONAL ENGINEER
 CIVIL
 No. 28902
 Exp. 03/31/15
 5/31/13
 STATE OF CALIFORNIA

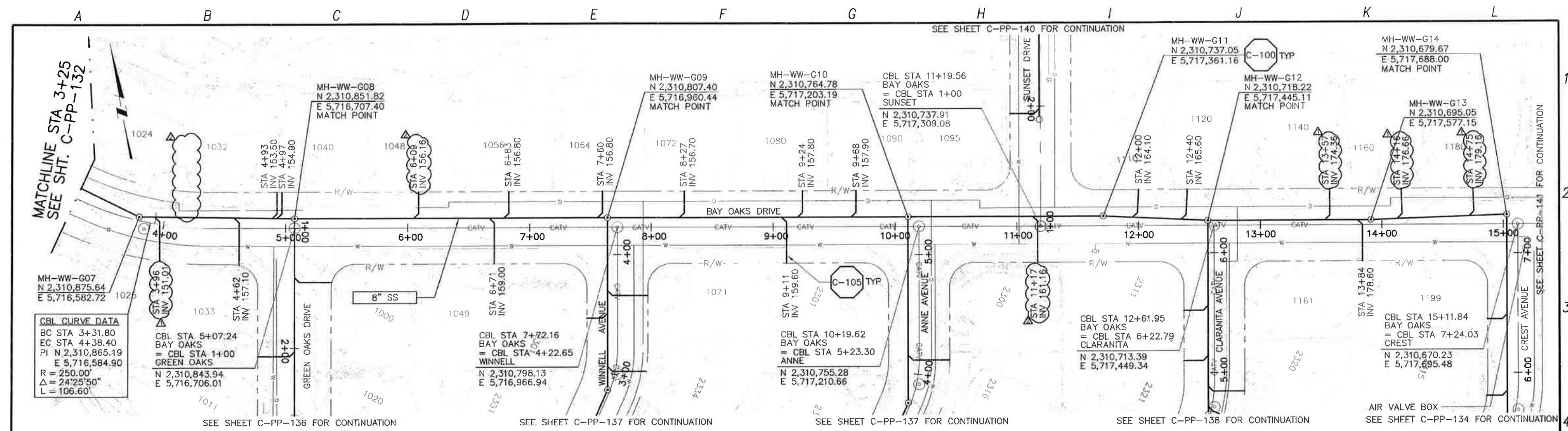
DIGALERT
 DIAL TOLL FREE
 1-800-647-2444
 AT LEAST TWO DAYS BEFORE YOU DIG
 UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
 BAYVIEW HTS - 12+23.69 TO 5+77.47
 BAY OAKS DR - 1+00 TO 3+25

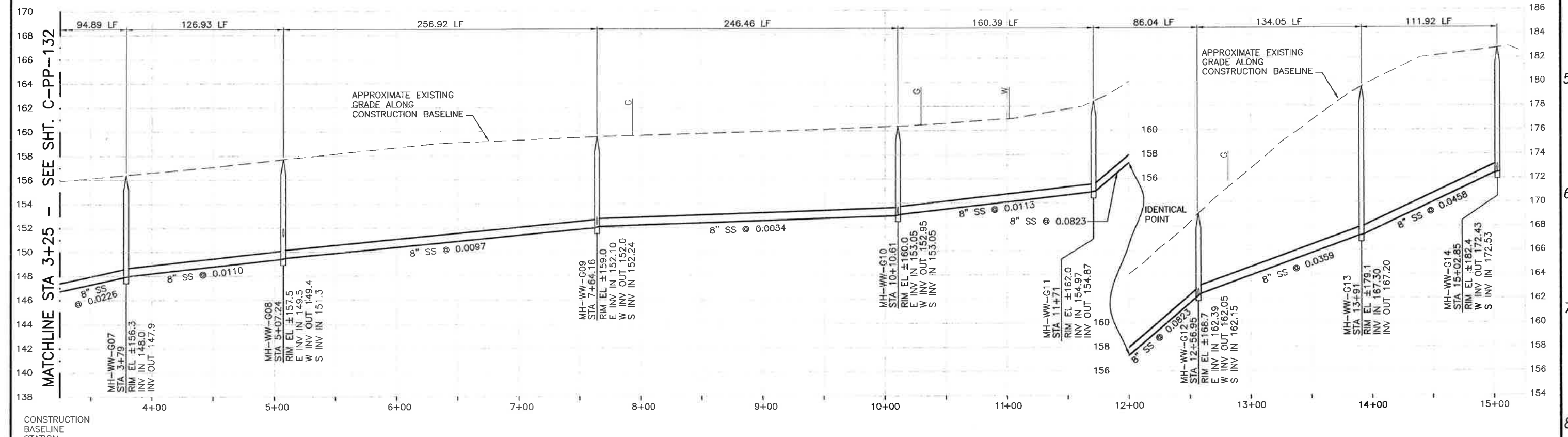
PROJECT NO. 42502-83120
 FILE NAME: C-PP-132
 SHEET NO. C-PP-132.3

SCALE:
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 VERT: 1"=4'

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PLAN ON BAY OAKS DRIVE



PROFILE ON BAY OAKS DRIVE

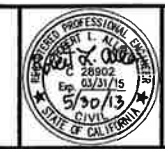
REV. NO.	DATE	DRWN	CHKD	REMARKS
5/30/13	LLB	RLA		NOC 37 - LATERAL RELOCATIONS
5/30/13	LLB	RLA		NOC 36 - LATERAL RELOCATIONS

DESIGNED BY: KS
 DRAWN BY: RKU
 CHECKED BY: RLA
 DATE: APRIL 2012

CDM Smith
 2295 Gateway Oaks Drive, Suite 240
 Sacramento, CA 95833
 Tel: (916) 567-9900



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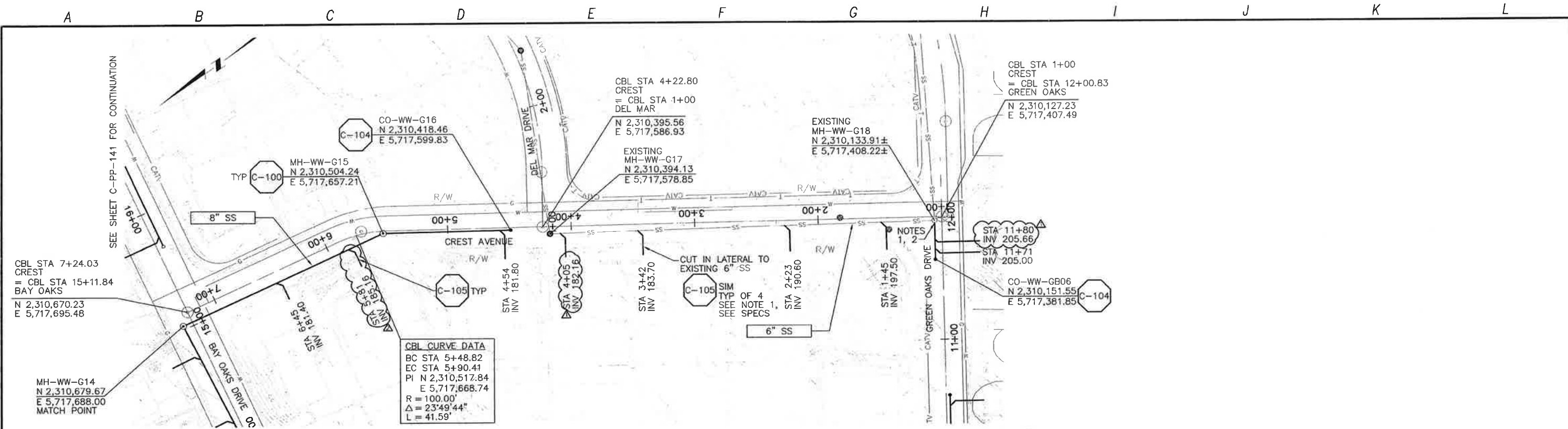
DIGAERT
 DIAL TOLL FREE
 1-800-642-2444
 ALL LEAST ONE DAY BEFORE PULLING UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
BAY OAKS DRIVE
 STA 3+25 TO STA 15+02.85

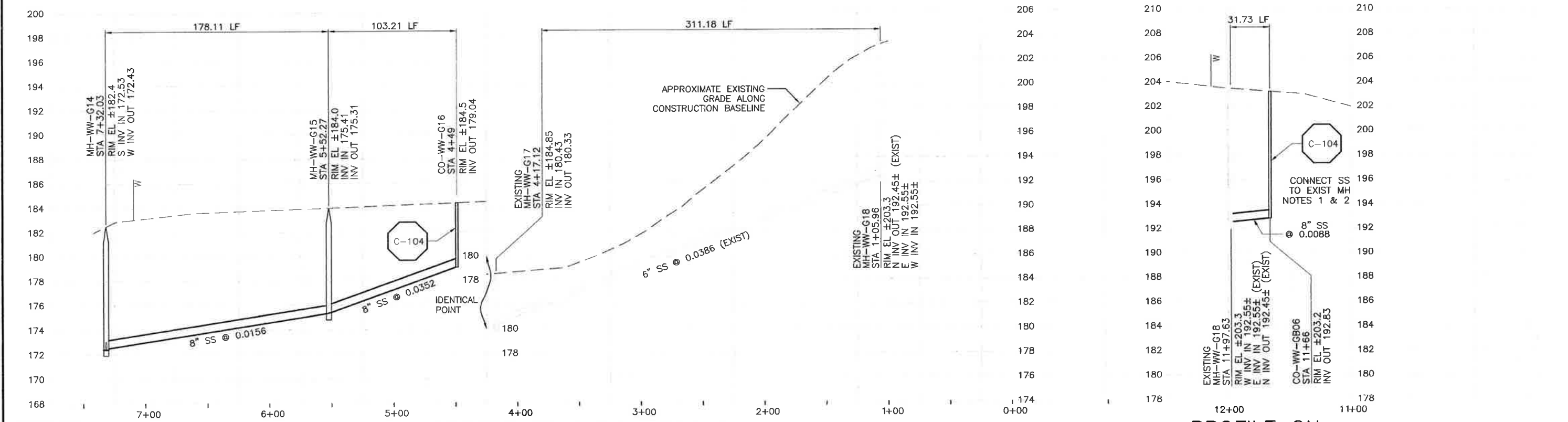
PROJECT NO. 42502-83120
 FILE NAME: C-PP-133
 SHEET NO.
C-PP-133.1

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

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PLAN ON CREST AVENUE AND GREEN OAKS DRIVE



PROFILE ON CREST AVENUE

PROFILE ON GREEN OAKS DRIVE

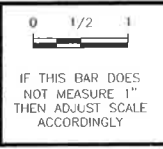
CONSTRUCTION BASELINE STATION

NOTES:
 1. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF EXISTING SEWER AND MANHOLES AT NEW LATERAL AND SEWER CONNECTIONS. CONNECT LATERALS TO EXISTING 8" VCP SEWER IN ACCORDANCE WITH LOCSO AND SAN LUIS OBISPO COUNTY STANDARDS.
 2. CONTRACTOR SHALL CORE DRILL AND SEAL NEW SEWER PENETRATION PER SPECS.

DESIGNED BY:	KS
DRAWN BY:	RLU
CHECKED BY:	RLA
DATE:	APRIL 2012

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	5/30/13	LLB	RLA	NOC 37 - LATERAL RELOCATION
2	5/30/13	LLB	RLA	NOC 36 - LATERAL RELOCATIONS

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 Tel: (916) 567-9900



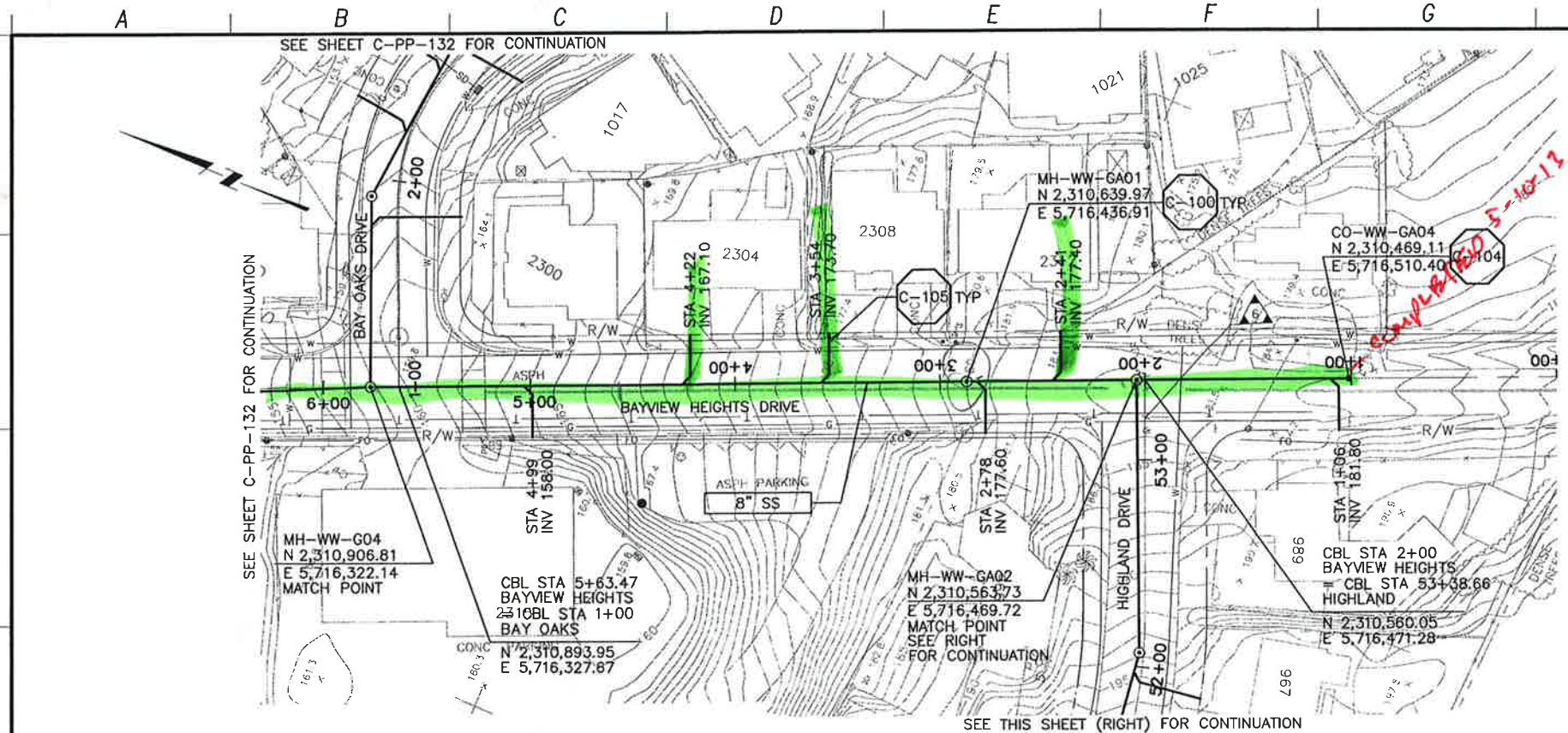
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LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE
 CREST - 7+32.03 TO 1+05.96
 GREEN OAKS - 11+97.63 TO 11+66

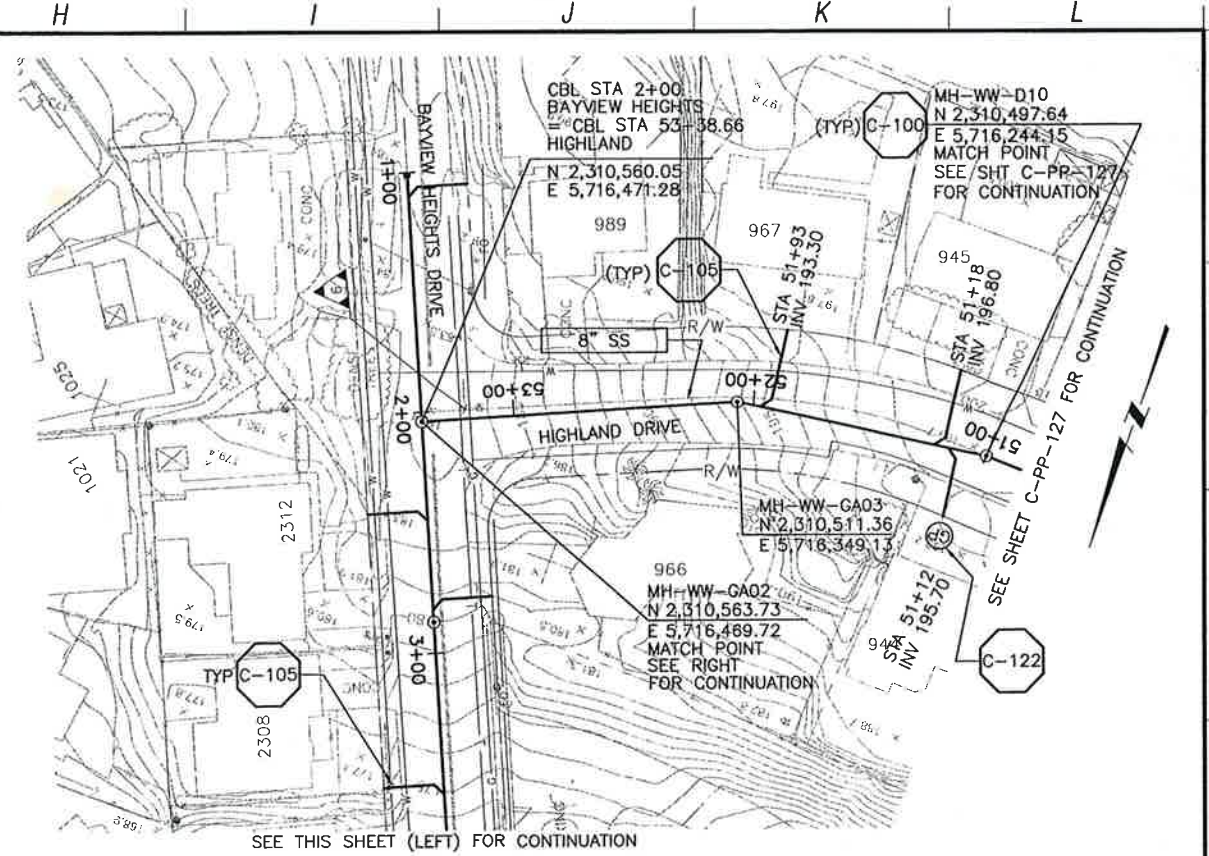
SCALE:
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 VERT: 1"=4'

PROJECT NO. 42502-83120
 FILE NAME: C-PP-134
 SHEET NO.
C-PP-134.1

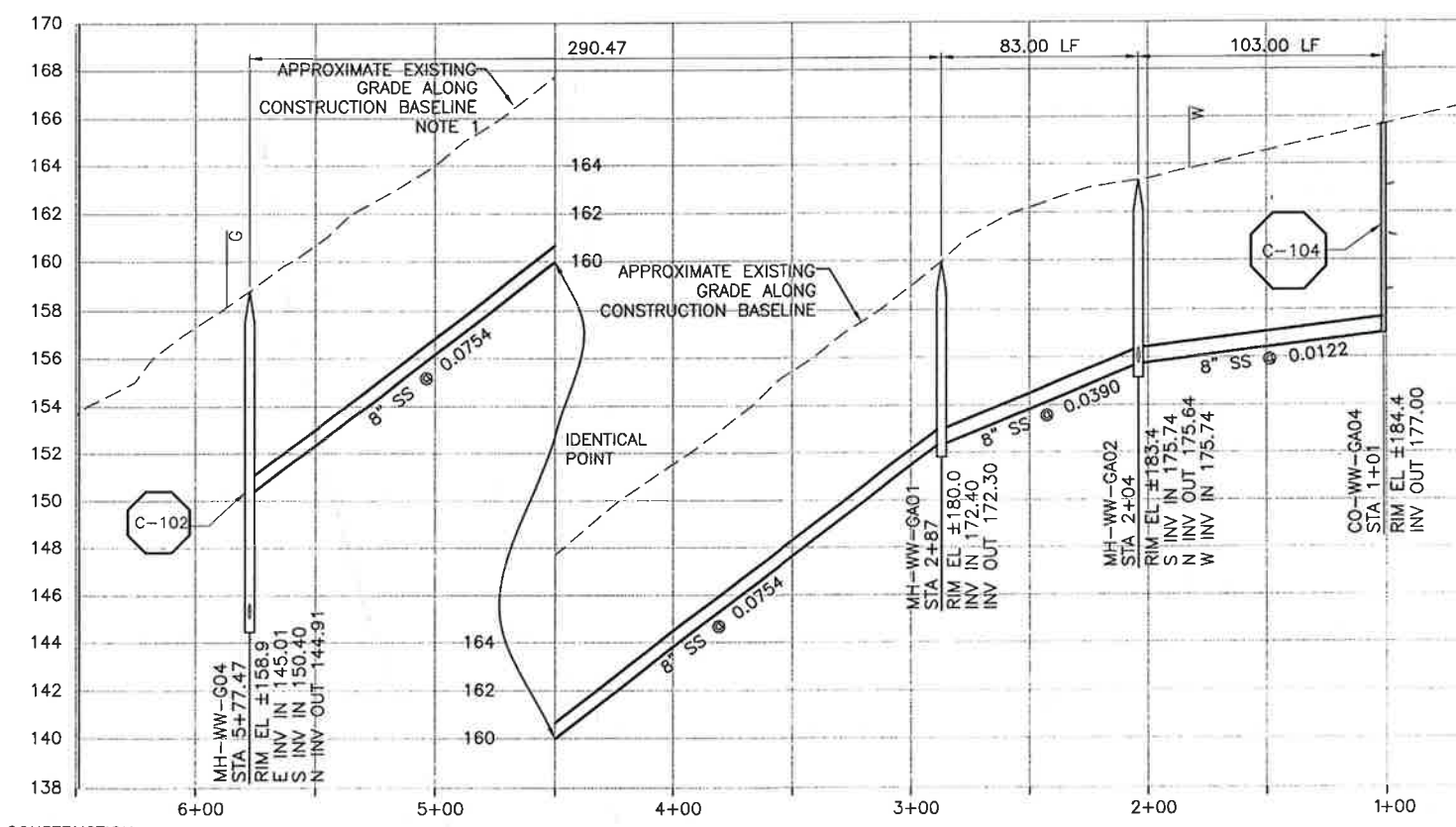
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 1-Sheets\02C\W\C-COLLECTION\ C-PP-135 12/30/11 13:15 timg\j\ XSEES: N-FEAT-CNBL,
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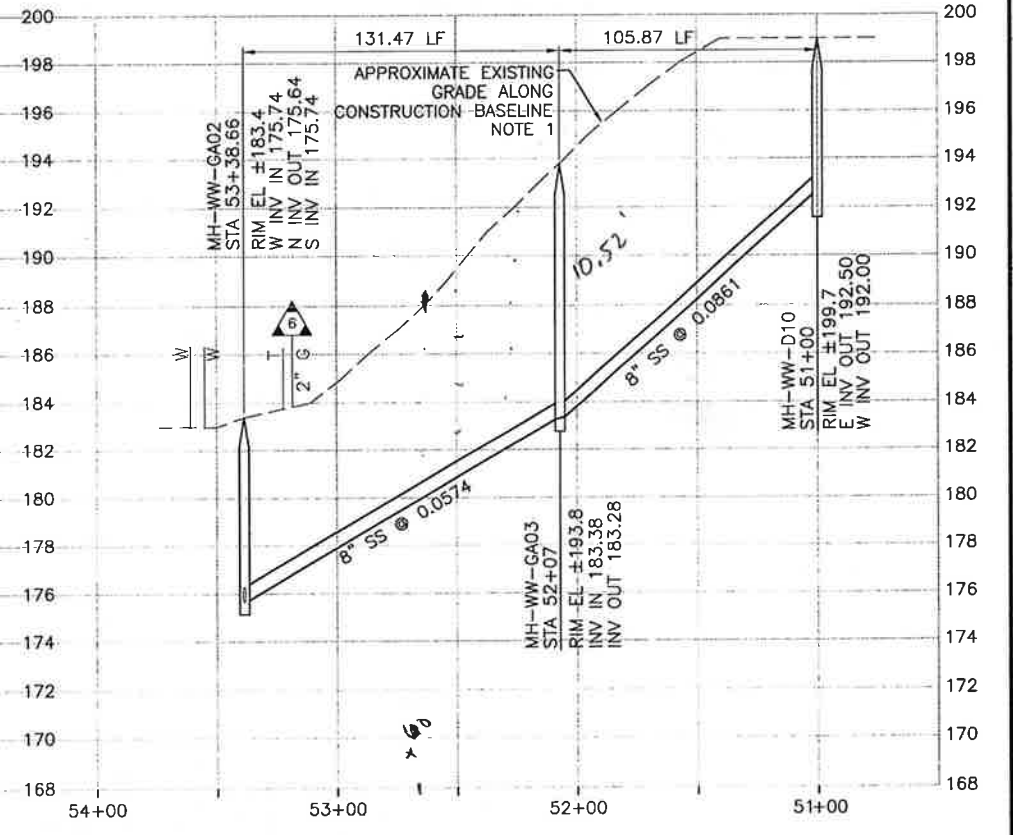
PLAN ON BAYVIEW HEIGHTS DRIVE



PLAN ON HIGHLAND DRIVE



PROFILE ON BAYVIEW HEIGHTS DRIVE



PROFILE ON HIGHLAND DRIVE

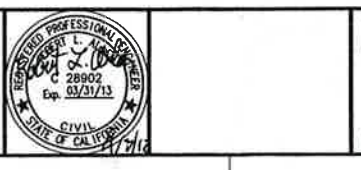
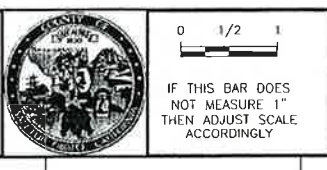
NOTES:
 1. CONTRACTOR SHALL NOTE DATE OF AERIAL PHOTOGRAPHY PREDATES DEVELOPMENT ON THIS PORTION OF HIGHLAND DRIVE AND BAYVIEW HEIGHTS DRIVE.

CONSTRUCTION BASELINE STATION

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: KS
 DRAWN BY: RRU
 CHECKED BY: RLA
 DATE: APRIL 2012

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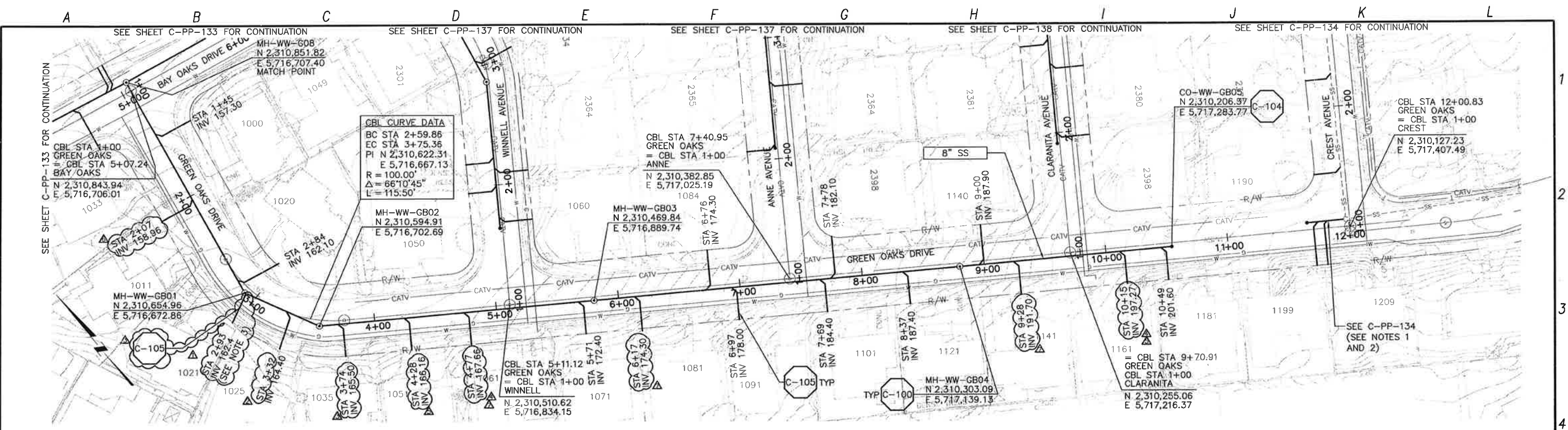


LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
 BAYVIEW HEIGHTS - 5+77.47 TO 1+01
 HIGHLAND DR - 53+38.66 TO 51+00

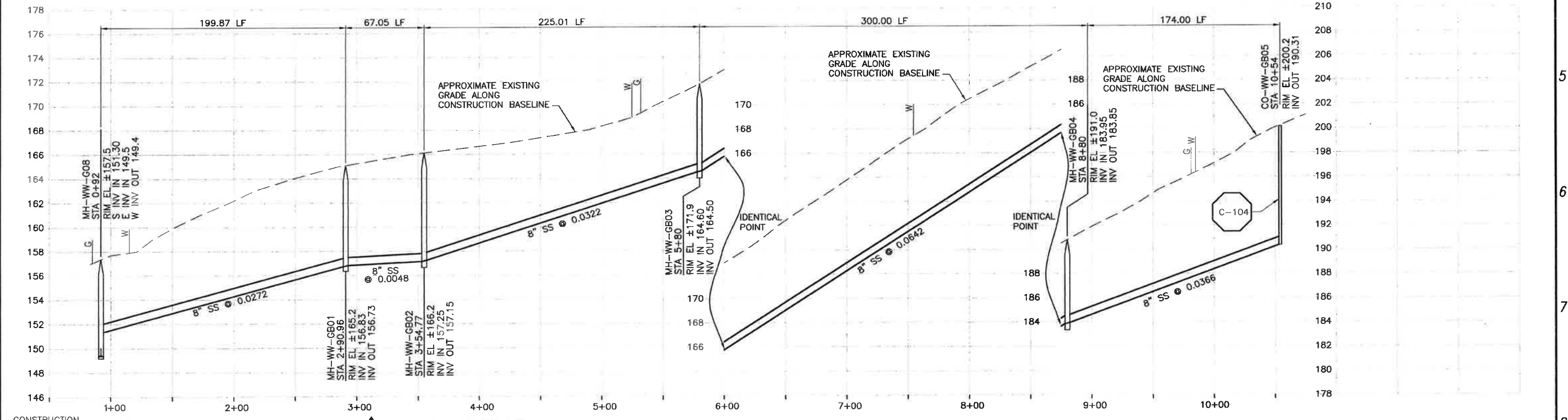
PROJECT NO. 42502-83120
 FILE NAME: C-PP-135
 SHEET NO. C-PP-135

SCALE:
 HORZ: 1"=40'
 VERT: 1"=4'

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PLAN ON GREEN OAKS DRIVE



PROFILE ON GREEN OAKS DRIVE

- CONSTRUCTION BASELINE STATION
- NOTES:**
- CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF EXISTING SEWER FACILITIES PRIOR TO BEGINNING WORK.
 - CONTRACTOR SHALL CORE DRILL AND SEAL NEW SEWER PENETRATION PER SPECS.
 - EXIST 30" DEEP LATERAL IS 3" DIA CONNECT TO MH.

REV. NO.	DATE	DRWN	CHKD	REMARKS
6/13/13	LLB	RLA	NOC 40	LATERAL RELOCATION
5/30/13	LLB	RLA	NOC 38	LATERAL RELOCATION
5/30/13	LLB	RLA	NOC 37	LATERAL RELOCATIONS
5/30/13	LLB	RLA	NOC 36	LATERAL RELOCATIONS
5/01/13	LLB	RLA	NOC 30	LATERAL RELOCATION

DESIGNED BY: KS
 DRAWN BY: RKU
 CHECKED BY: RLA
 DATE: APRIL 2012

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0 1/2 1
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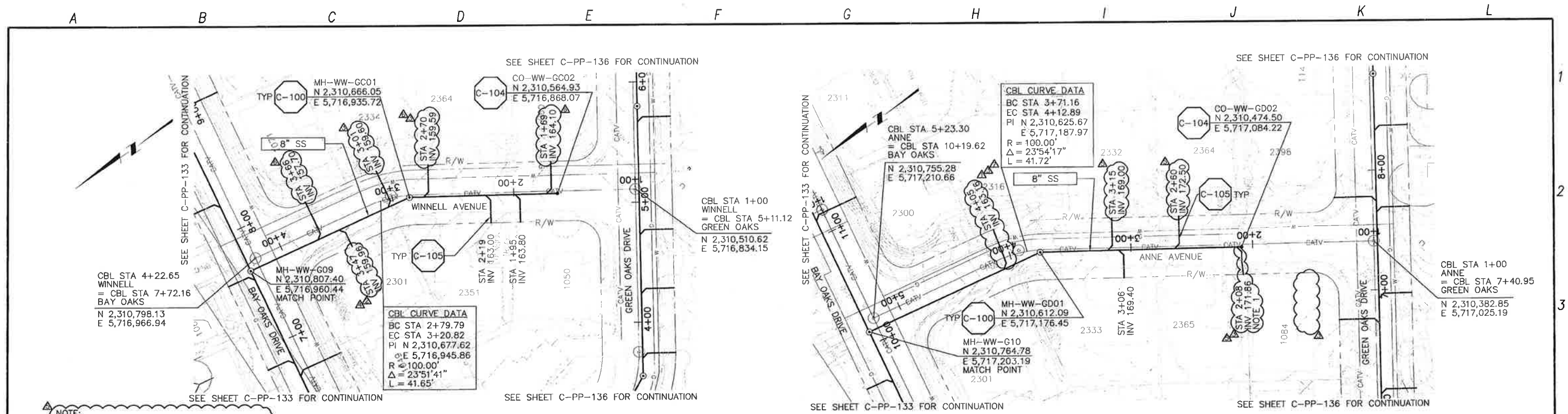
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LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
GREEN OAKS DRIVE
STA 0+92 TO STA 10+54

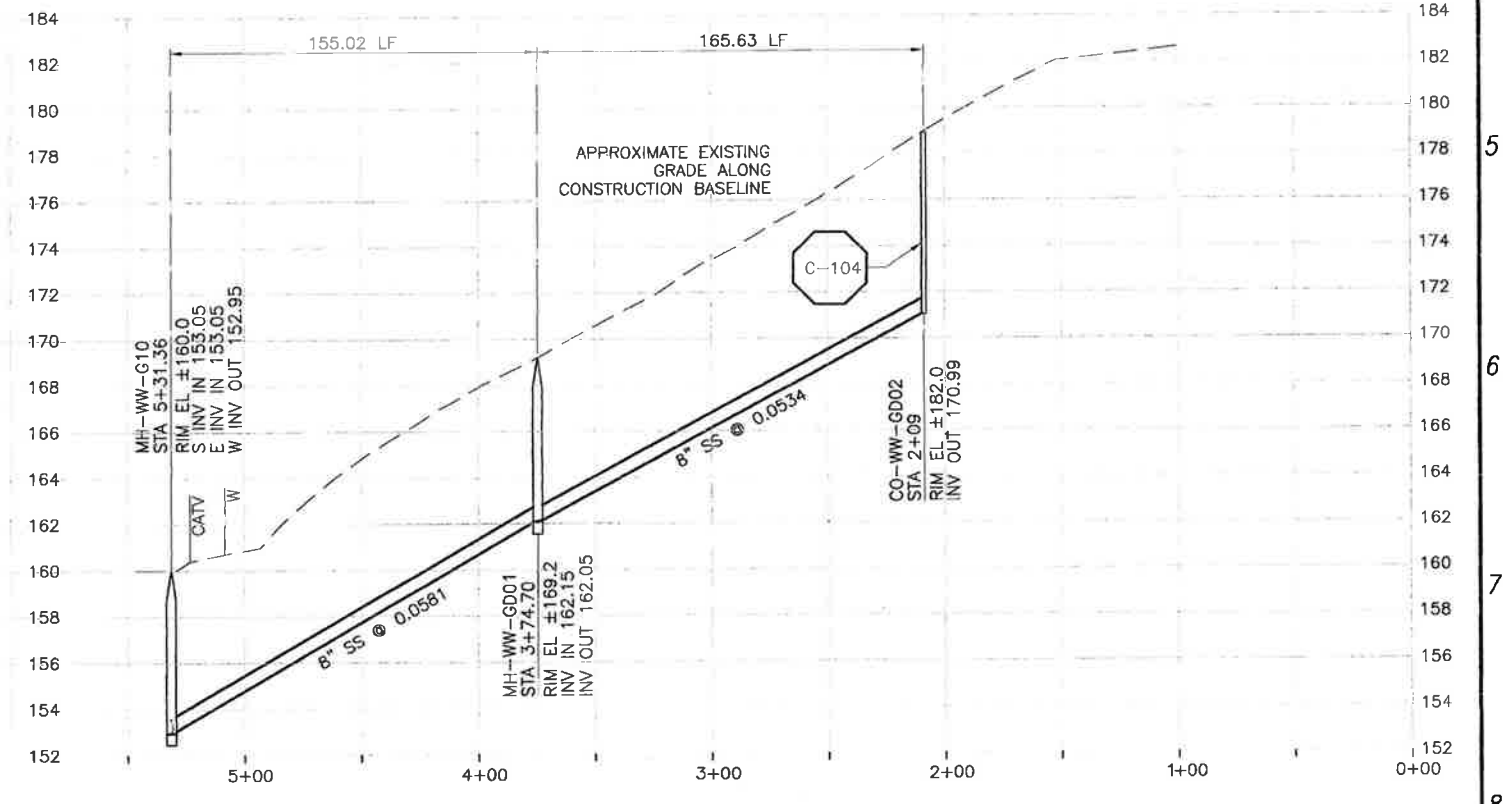
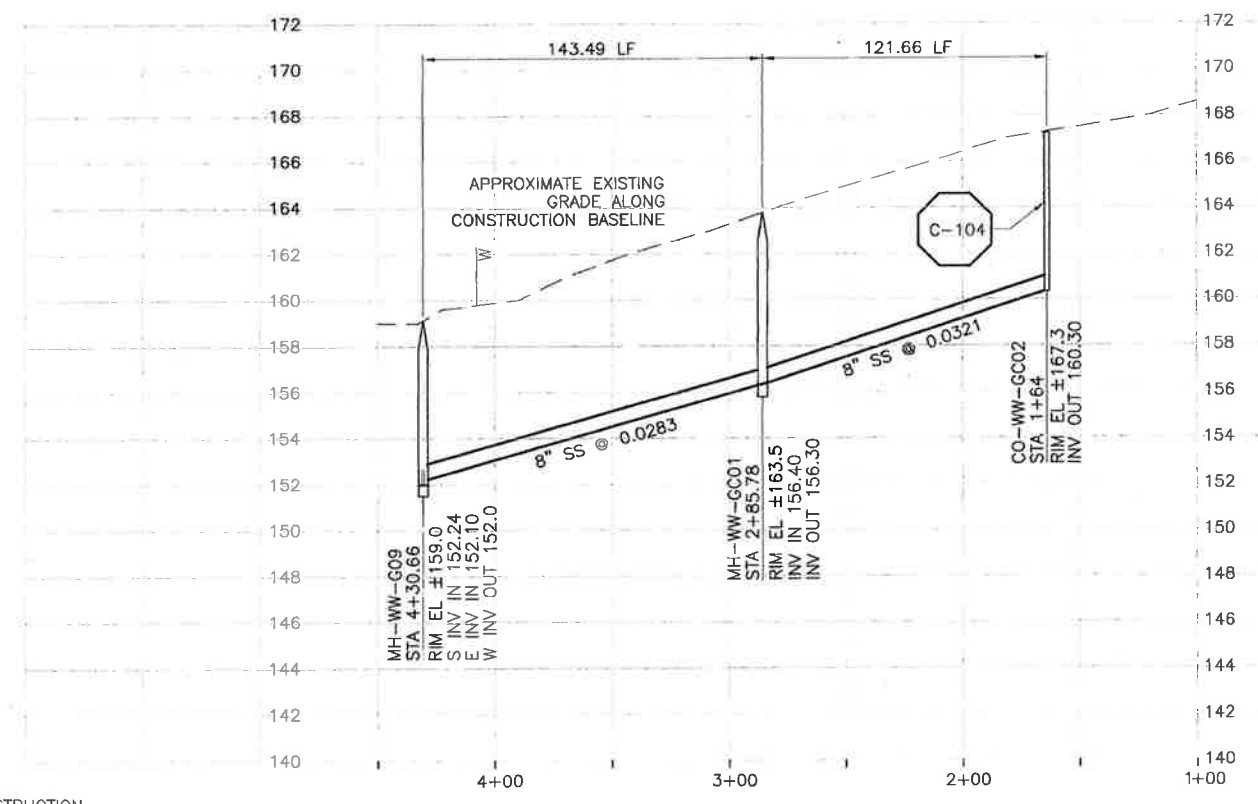
PROJECT NO. 42502-83120
 FILE NAME: C-PP-136
 SHEET NO. C-PP-136.4

SCALE:
 HORZ: 1"=40'
 VERT: 1"=4'

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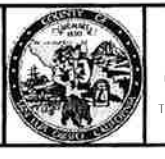
NOTE:
 1. LATERAL CONNECTS TO SS @ STA 2+09.



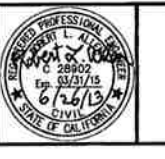
REV. NO.	DATE	DRWN	CHKD	REMARKS
Δ 6/26/13	LLB	RLA	NOC 44	- LATERAL RELOCATION
Δ 6/18/13	LLB	RLA	NOC 39	- LATERAL RELOCATION
Δ 6/13/13	LLB	RLA	NOC 41	- LATERAL RELOCATION
Δ 5/30/13	LLB	RLA	NOC 38	- LATERAL RELOCATION
Δ 5/30/13	LLB	RLA	NOC 36	- LATERAL RELOCATIONS

DESIGNED BY: KS
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 CHECKED BY: RLA
 DATE: APRIL 2012

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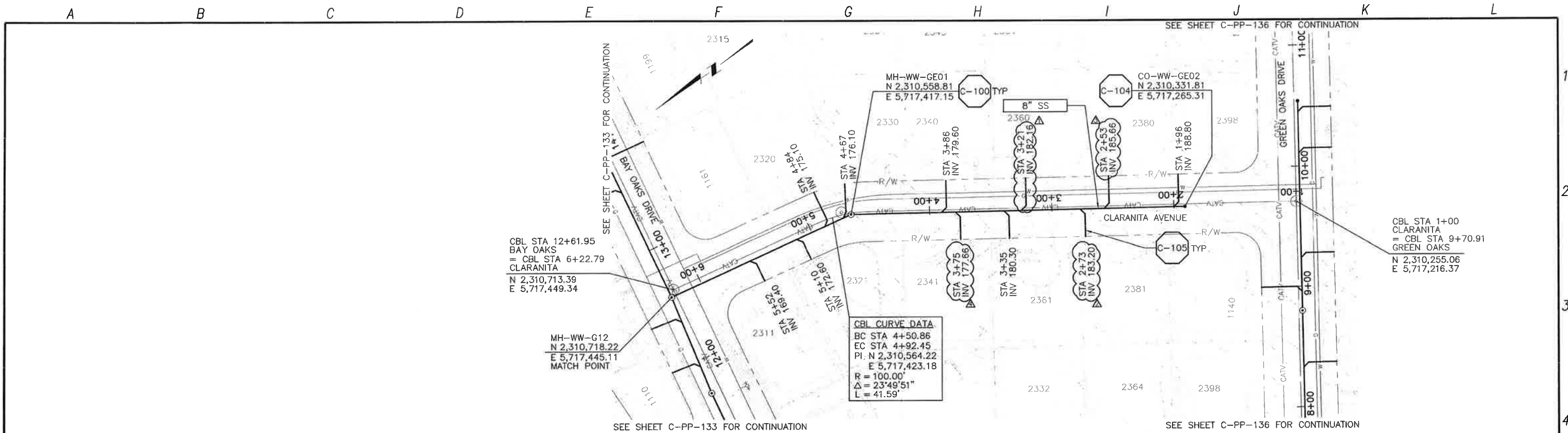


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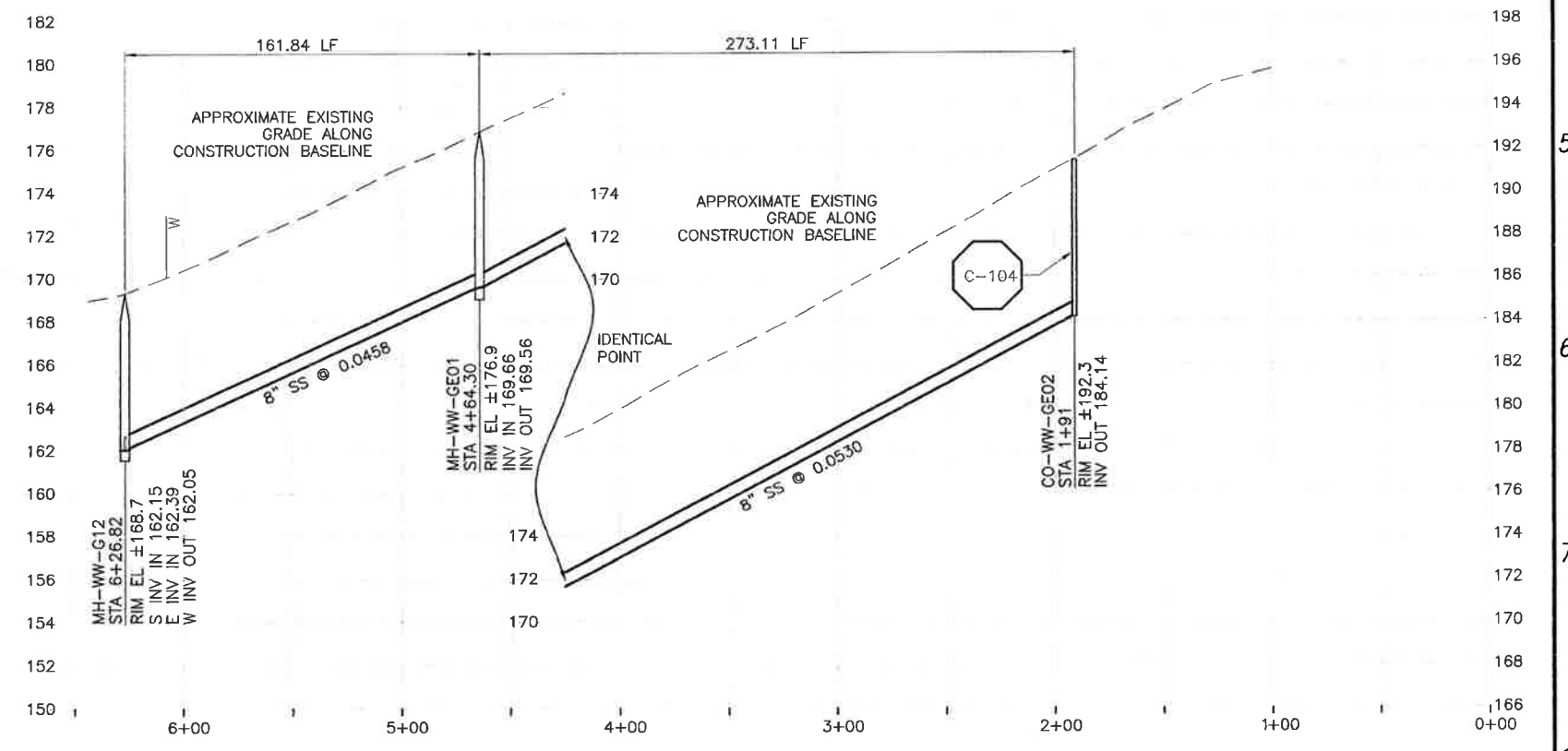
LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
 WINNELL AVENUE - 4+30.66 TO 1+64
 ANNE AVENUE - 5+31.36 TO 2+09
 PROJECT NO. 42502-83120
 FILE NAME: C-PP-137
 SHEET NO. C-PP-137.5

SCALE:
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 VERT: 1"=4'

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PLAN OF CLARANITA AVENUE



PROFILE OF CLARANITA AVENUE

CONSTRUCTION
BASELINE
STATION

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	5/30/13	LLB	RLA	NOC 37 - LATERAL RELOCATION
2	5/30/13	LLB	RLA	NOC 36 - LATERAL RELOCATION
3	5/21/13	LLB	RLA	NOC 32 - LATERAL RELOCATION
4	1/23/13	LLB	RLA	NOC 21 - LATERAL RELOCATION

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0 1/2 1
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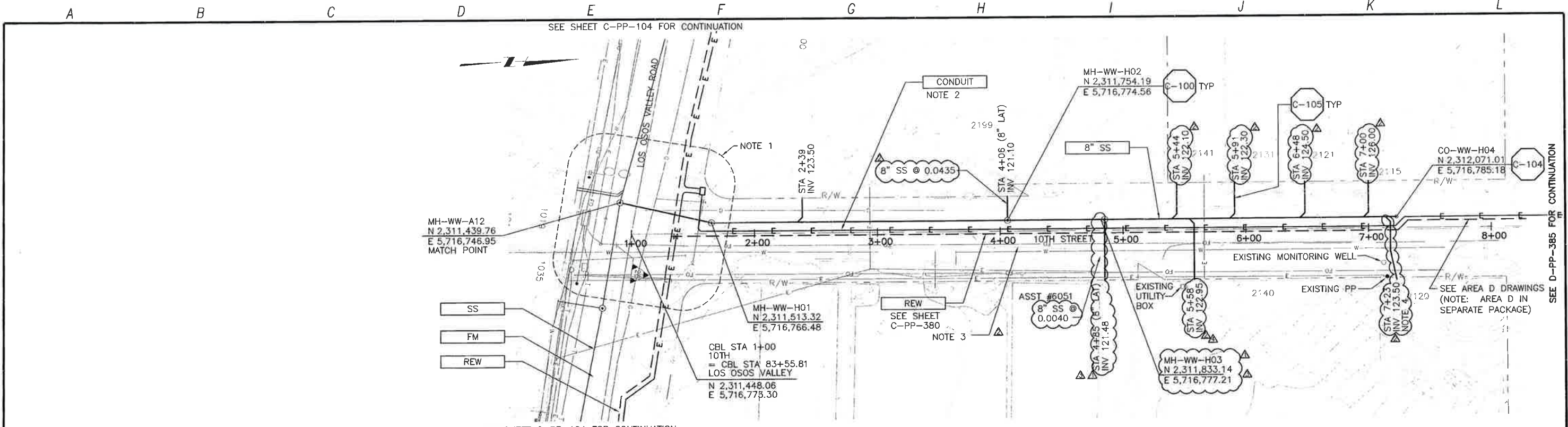
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LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
CLARANITA DRIVE
STA 6+26.82 TO STA 1+91

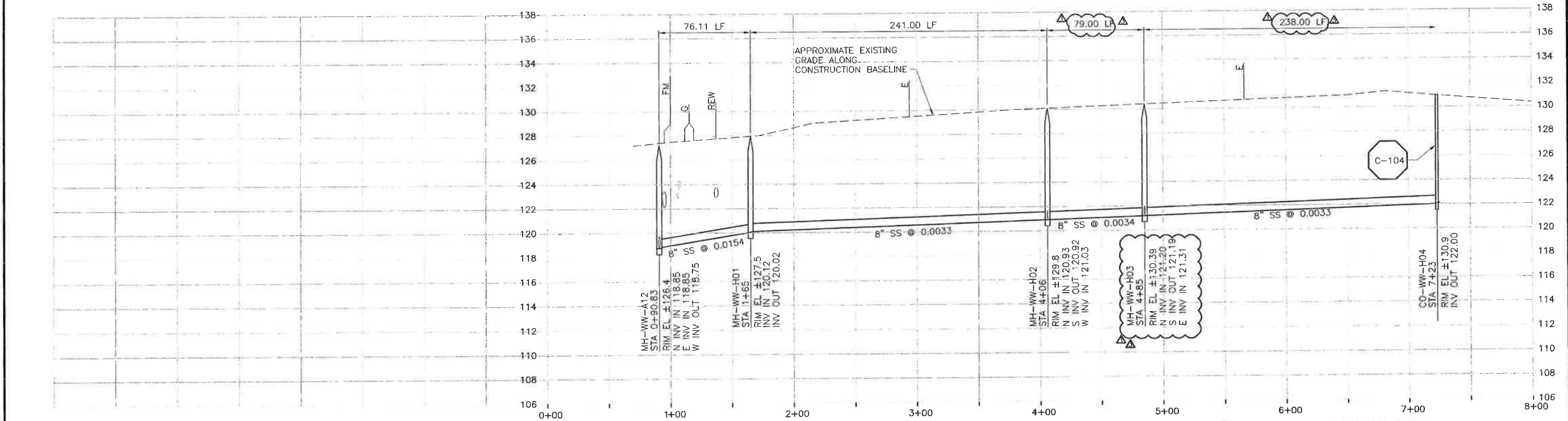
PROJECT NO. 42502-83124
 FILE NAME: C-PP-138
 SHEET NO.
C-PP-138.3

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PLAN ON 10TH STREET



PROFILE ON 10TH STREET

4. LATERAL CONNECTS TO SS @ STA 7+18.

WCD 163

CONSTRUCTION BASELINE STATION

NOTES:

- CONTRACTOR SHALL REPAIR EXISTING TRAFFIC CONTROL SYSTEM, INCLUDING INSTALLING NEW DETECTOR LOOPS, WHERE CONSTRUCTION RESULTS IN DAMAGE TO EXISTING SYSTEM. CONTRACTOR SHALL COORDINATE REPAIRS WITH COUNTY OF SAN LUIS OBISPO.
- REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.
- MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT MANHOLES.

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	2/12/14	LLB	RLA	NOC 76 - LATERAL RELOCATION
2	2/06/14	DPM	RLA	NOC 74 - MOVE MH AND LATERAL TO AVOID UTILITY VAULT
3	6/13/13	LLB	RLA	NOC 40 - LATERAL RELOCATIONS
4	6/06/13	LLB	RLA	DCM 45 - MOVE MH TO AVOID G

DESIGNED BY: KS
 DRAWN BY: RKU
 CHECKED BY: RLA
 DATE: APRIL 2012

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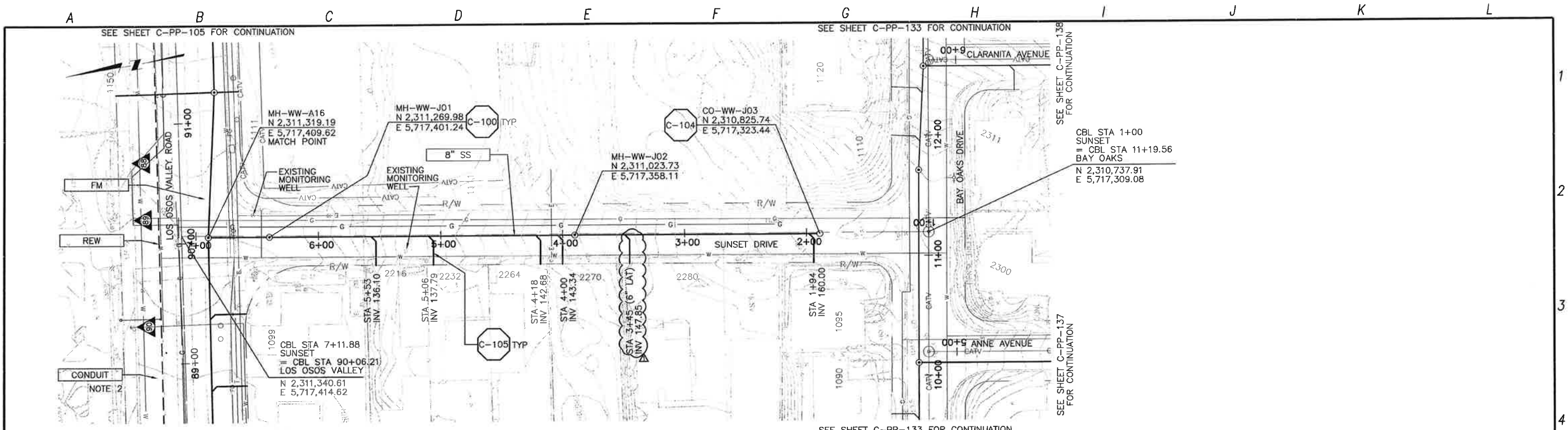
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LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE
 10TH STREET
 STA 0+90.83 TO STA 7+23

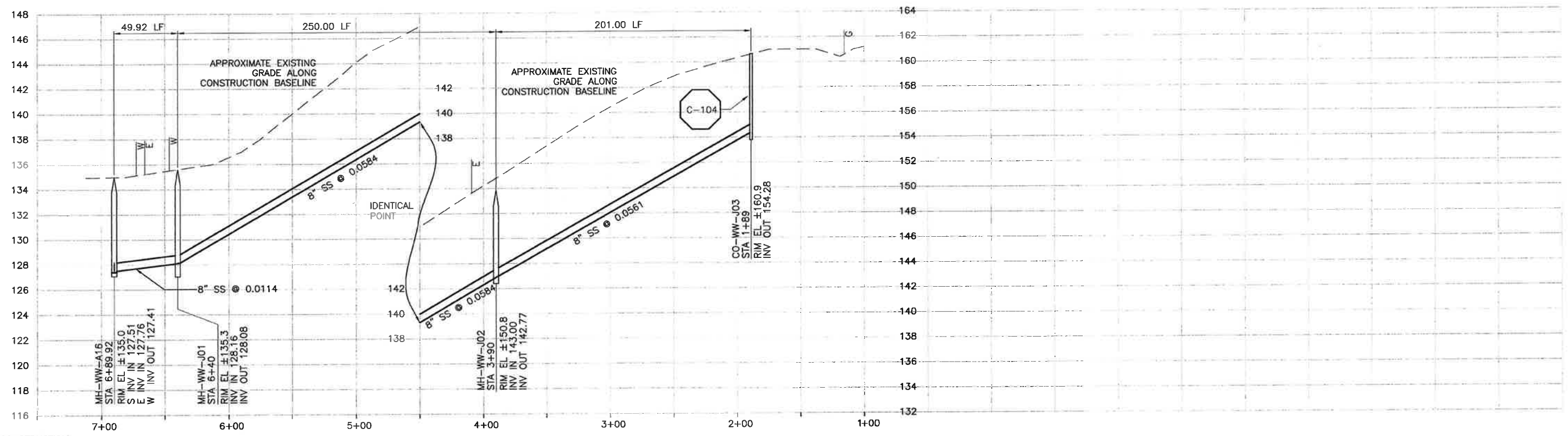
PROJECT NO. 42502-83120
 FILE NAME: C-PP-139
 SHEET NO.
C-PP-139.4

SCALE:
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PLAN ON SUNSET DRIVE



PROFILE ON SUNSET DRIVE

- NOTE:
1. VALLEY GUTTER ON SUNSET DRIVE
 2. REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.

REV. NO.	DATE	DRWN	CHKD	REMARKS
5/01/13	LLB	RLA		NOC 30 - LATERAL RELOCATION

DESIGNED BY: KS
 DRAWN BY: RKU
 CHECKED BY: RLA
 DATE: APRIL 2012

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1/2" = 1'
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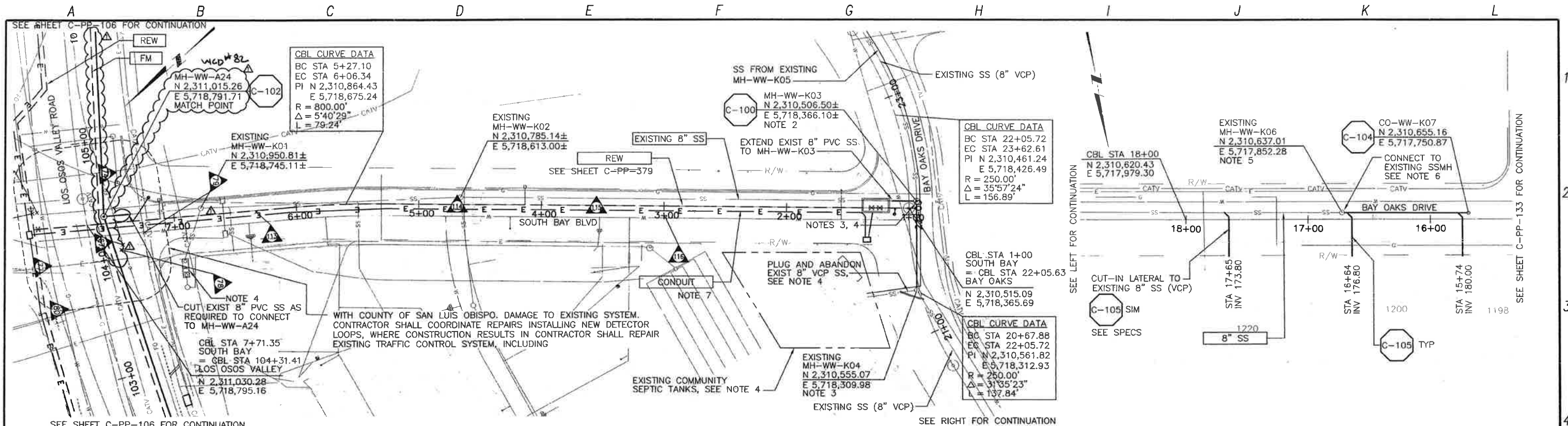
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LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
SUNSET DRIVE
 STA 6+89.92 TO STA 1+89

PROJECT NO. 42502-83120
 FILE NAME: C-PP-140
 SHEET NO.
C-PP-140.1

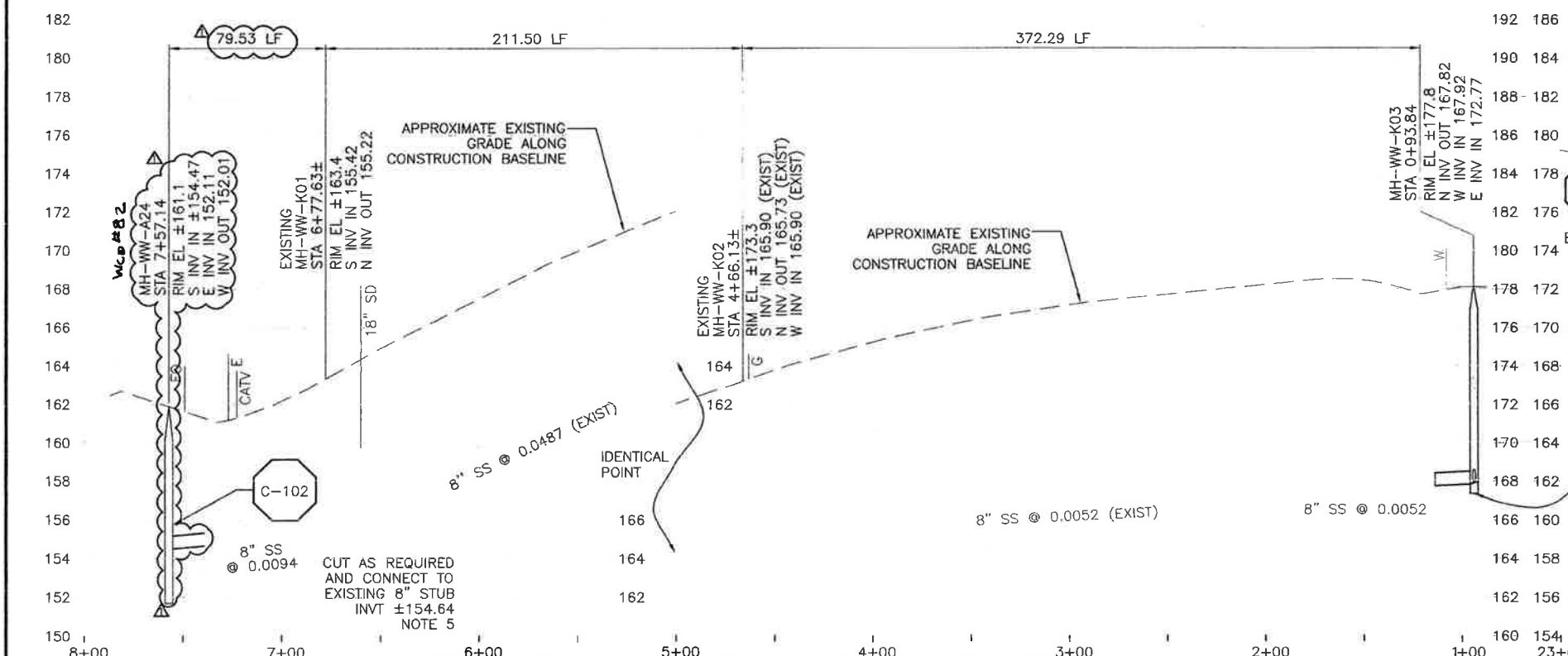
SCALE:
 HORZ: 1"=40'
 VERT: 1"=4'

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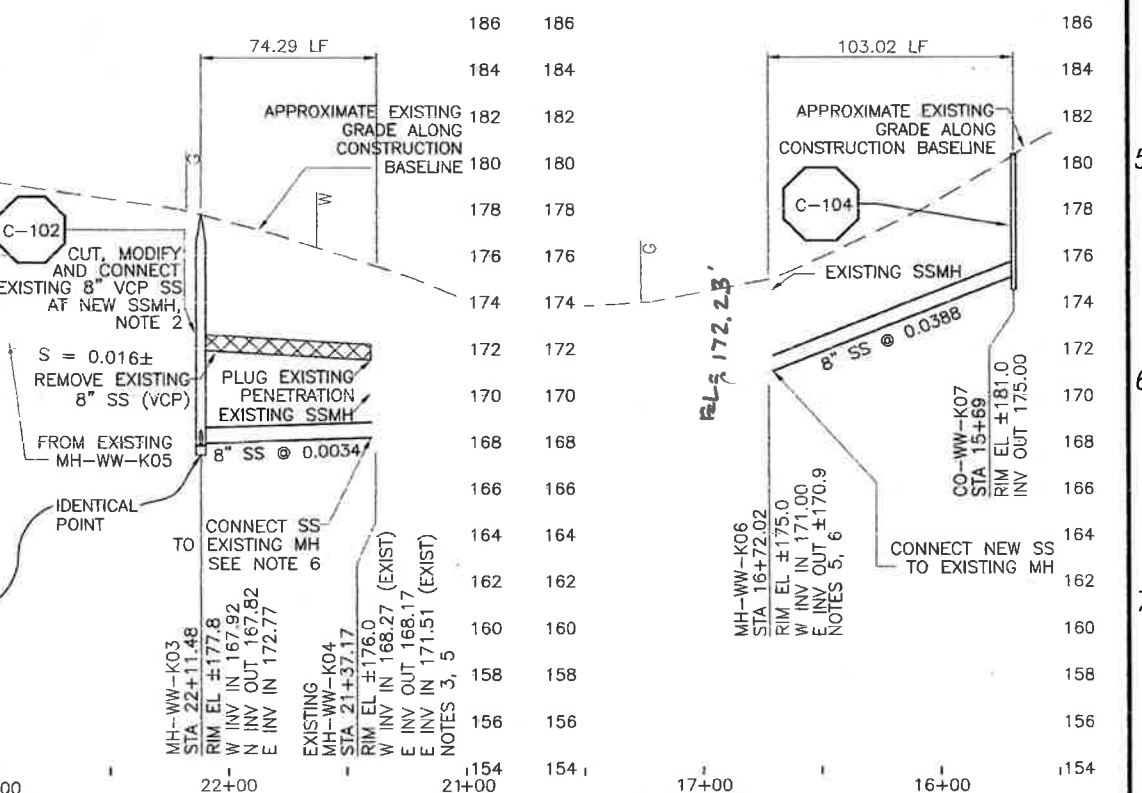


PLAN ON SOUTH BAY BOULEVARD AND BAY OAKS DRIVE

PLAN ON BAY OAKS DRIVE



PROFILE ON SOUTH BAY BOULEVARD



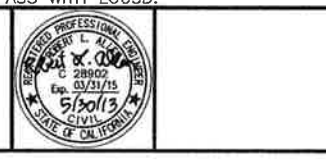
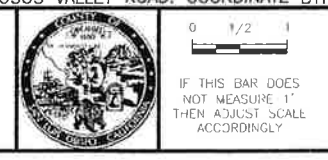
PROFILES ON BAY OAKS DRIVE

- NOTES:**
- CONTRACTOR SHALL NOTE THAT AERIAL PHOTOGRAPHY PREDATES RECENT DEVELOPMENT OF SOUTH BAY BLVD EXTENSION FROM LOS OSOS VALLEY ROAD TO BAY OAKS DRIVE.
 - MH-WW-K03 SHALL BE INSTALLED OVER EXISTING 8" SS. CONTRACTOR SHALL MAINTAIN EXISTING SEWER PROFILE TO EAST. CONTRACTOR SHALL CUT AND MODIFY EXISTING 8" VCP SS TO PENETRATE MH-WW-K03. SEE SPECS.
 - CONTRACTOR SHALL REMOVE EXISTING SEWER TO WEST AND INSTALL SEWER FROM MH-WW-K04 DRAINING TO MH-WW-K03.
 - CONTRACTOR SHALL NOT DIVERT SEWAGE FLOWS INTO DOWNSTREAM SEWER WITHOUT WRITTEN PERMISSION FROM LOSOSD. CONTRACTOR SHALL TEMPORARILY BYPASS INCOMING WASTEWATER TO COMMUNITY SEPTIC TANK AT BAY OAKS DRIVE, AT SOUTH BAY BLVD, AND AT LOS OSOS VALLEY ROAD. COORDINATE BYPASS WITH LOSOSD.
 - CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF EXISTING SEWER FACILITIES PRIOR TO BEGINNING WORK.
 - CONTRACTOR SHALL CORE DRILL AND SEAL NEW SEWER PENETRATION PER SPECS.
 - REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.

DESIGNED BY	KS			
DRAWN BY	RKU			
CHECKED BY	RLA			
DATE	APRIL 2012			
REV. NO.	DATE	DRWN	CHKD	REMARKS
1	5/29/13	LLB	RLA	RFT 100 - RELOCATE SS & FM TO AVOID SDM'S

DESIGNED BY: KS
 DRAWN BY: RKU
 CHECKED BY: RLA
 DATE: APRIL 2012

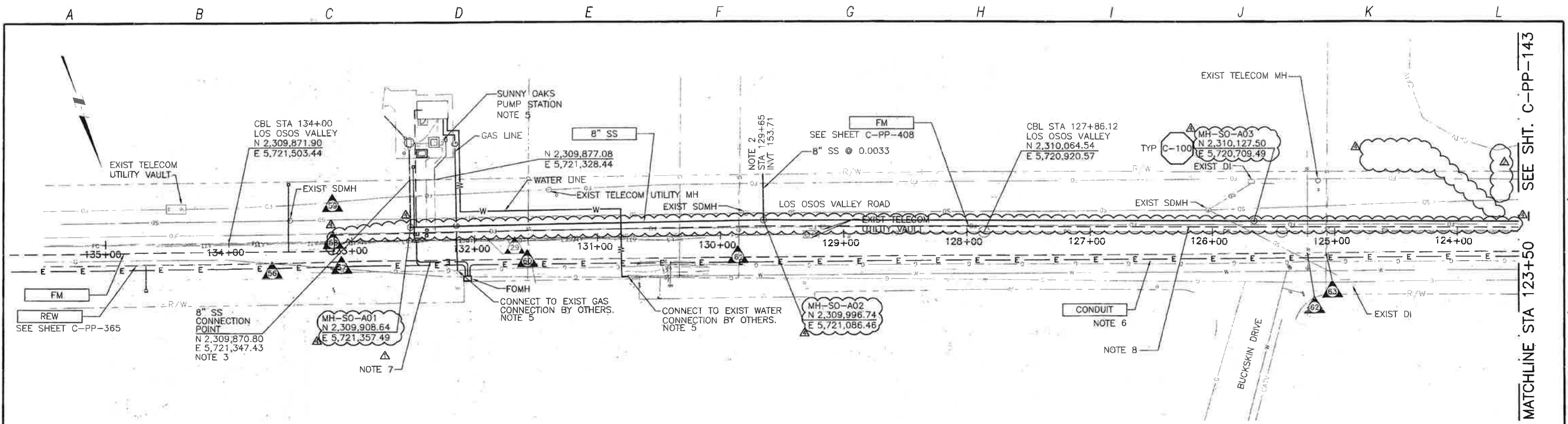
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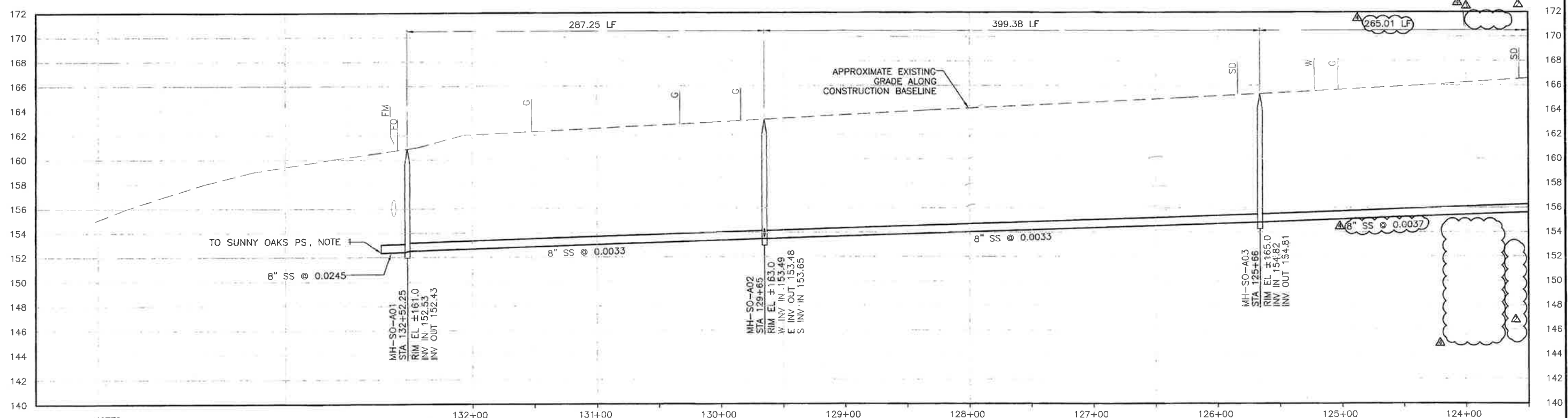
LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
 SOUTH BAY - 7+39.37 TO 0+93.84
 BAY OAKS - 22+11.48 TO 15+69
 PROJECT NO. 42502-83126
 FILE NAME: C-PP-141
 SHEET NO. C-PP-141.1

SCALE:
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PLAN ON LOS OSOS VALLEY ROAD



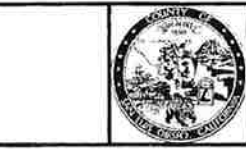
PROFILE ON LOS OSOS VALLEY ROAD

- CONSTRUCTION BASELINE STATION**
- NOTES:**
- CONTRACTOR SHALL CONNECT TO SUNNY OAKS PUMP STATION, VERIFY CONNECTION LOCATION AND DEPTH PRIOR TO BEGINNING WORK. SEE SHEET C-C-302 FOR DETAILS.
 - CONTRACTOR SHALL CAP END OF STUB SS AND STAKE FOR FUTURE CONNECTION.
 - SUNNY OAKS TRAILER PARK SEWER CONNECTION IS DIRECT TO PUMP STATION. SEE SHEET C-C-302 FOR DETAILS.
 - E(OH) ON NORTH SIDE OF STREET.
 - SEE SHEET C-C-302 FOR DETAILS.
 - REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.
 - TERMINATE CONDUITS AT PROPERTY LINE.
- MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT MANHOLES.

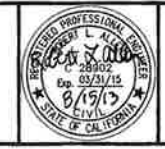
REV. NO.	DATE	DRWN	CHKD	REMARKS
1	8/15/13	LLB	RLA	RFI 129 -- RELOCATE SS & FM TO AVOID AT&T AND LEGACY FO
2	11/29/12	LLB	RLA	RNOC 09 0 UPDATE LENGTH
3	10/31/12	LLB	RLA	REMOVED LATERAL
4	7/20/12	LLB	RLA	CONFORMED
5	5/24/12	LLB	RLA	ADDENDUM #2

DESIGNED BY: KS
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 CHECKED BY: RLA
 DATE: APRIL 2012

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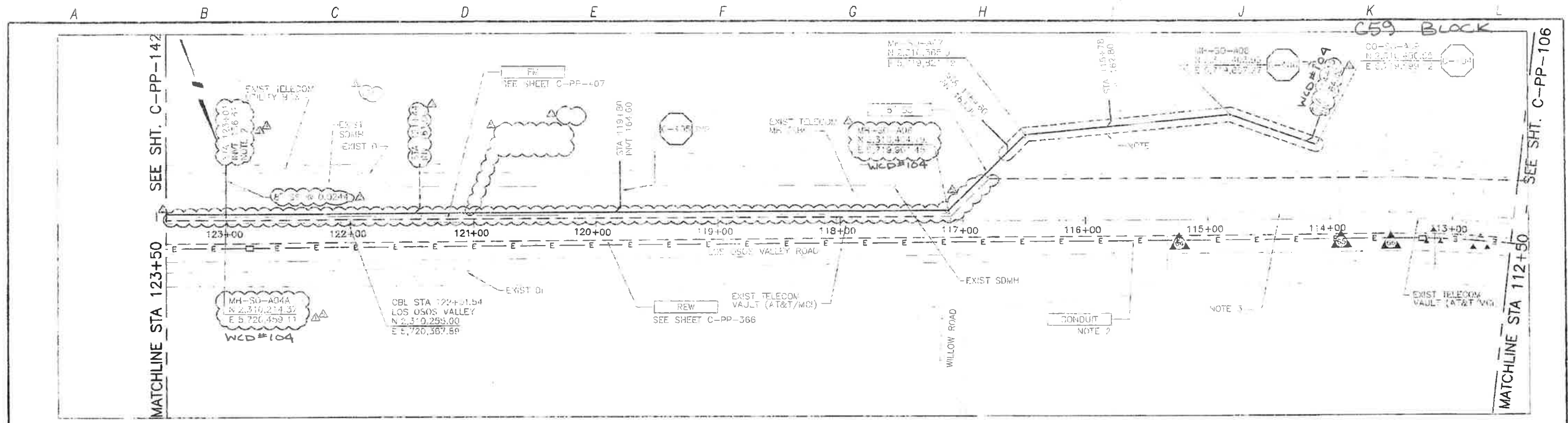


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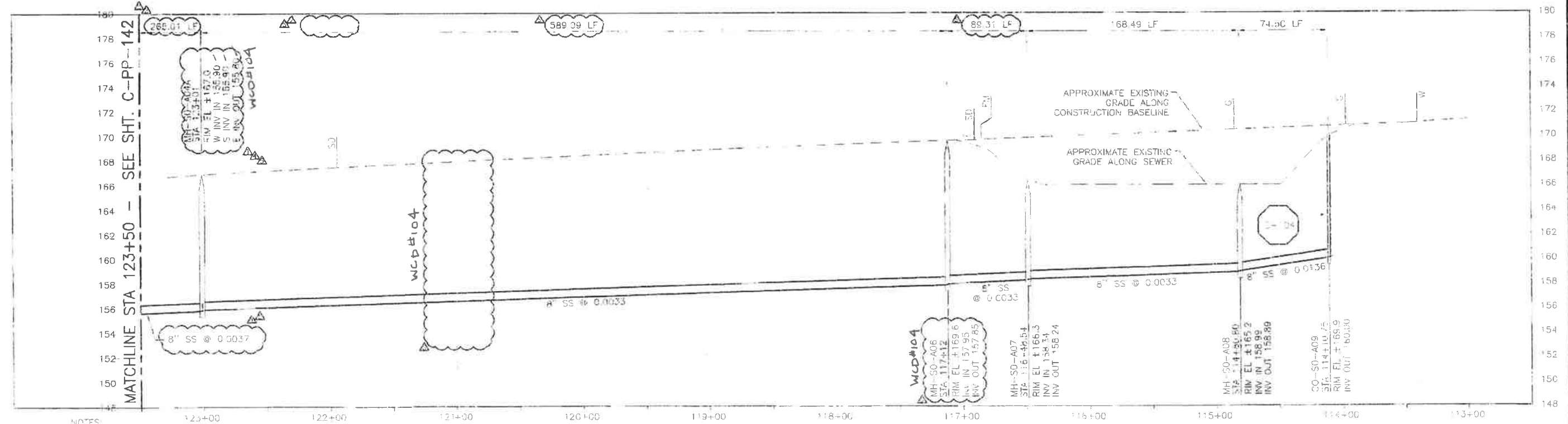
LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
 LOS OSOS VALLEY ROAD
 STA 132+52.25 TO STA 123+50

PROJECT NO 42502-83120
 FILE NAME: C-PP-142
 SHEET NO. C-PP-142.2

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



PLAN ON LOS OSOS VALLEY ROAD



PROFILE ON LOS OSOS VALLEY ROAD

- NOTES:
- CONTRACTOR SHALL TEMPORARILY RELOCATE EXISTING SOIL STOCKPILES, EQUIPMENT AND DEBRIS TO CONSTRUCT SEWER. REPLACE UPON COMPLETION OF WORK.
 - CONTRACTOR SHALL CAP END OF STUB SS AND STAKE FOR FUTURE CONNECTION.

- REFER TO SHEET C-0-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.
- MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT MANHOLES.

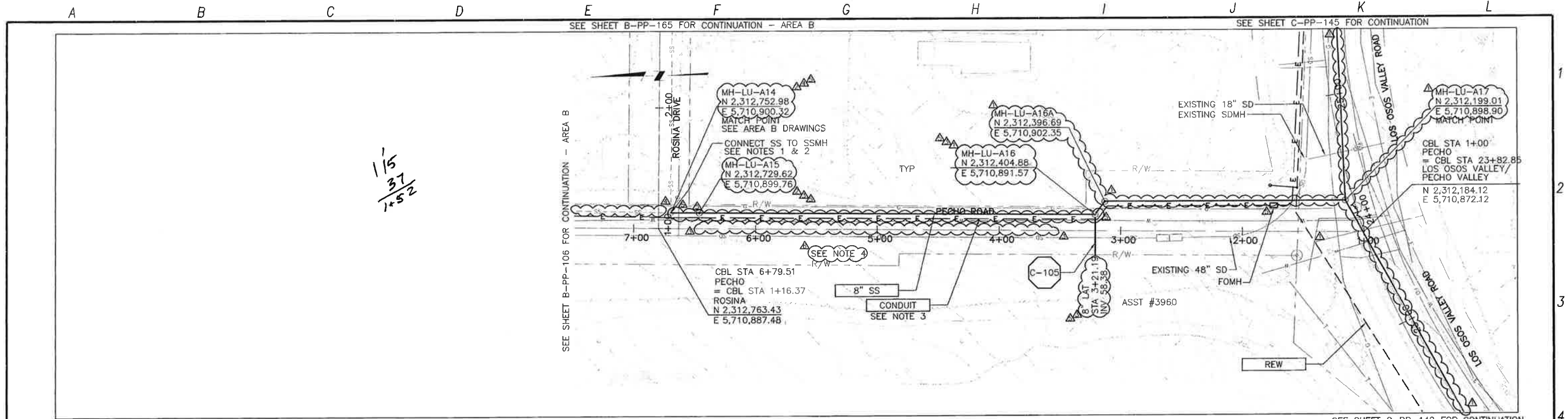
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11/14/13	LB	LB	LB
11/14/13	LB	LB	LB
11/14/13	LB	LB	LB



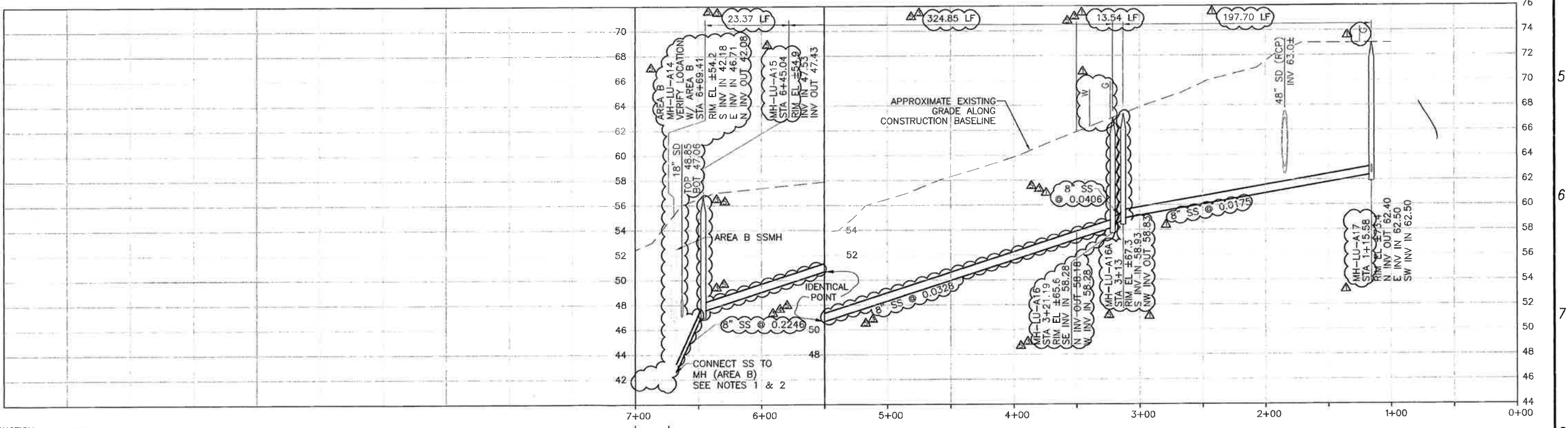
LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE
 LOS OSOS VALLEY ROAD
 STA 123+50 TO STA 114+10.75

SHEET NO.
 C-PP-143.4

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PLAN ON PECHO ROAD



PROFILE ON PECHO ROAD

CONSTRUCTION BASELINE STATION

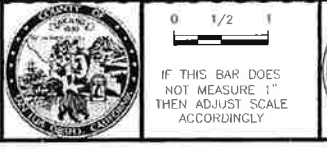
NOTES:

- CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF EXISTING SEWER FACILITIES PRIOR TO BEGINNING WORK. SEE AREA B DRAWINGS.
- CONTRACTOR SHALL CORE DRILL AND SEAL NEW SEWER PENETRATION PER SPECS.
- REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.
- PIPE MATERIAL FROM MH-LU-A16 TO MH-LU-A14 SHALL BE CLASS 200 DR 14 PIPE WRAPPED IN GREEN POLYETHYLENE SLEEVE.

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	3/27/14	LLB	RLA	DCM 72 - CORRECT PIPE TYPE TO MEET HEALTH DEPT CRITERIA
2	2/25/14	LLB	RLA	DCM 72 - REVISE PIPE TYPE
3	1/21/14	LLB	RLA	DCM 72 - RELOCATE SS TO AVOID SD
4	12/19/13	LLB	RLA	RFI 157 - RELOCATE SS TO AVOID G AND SD
5	12/09/13	LLB	RLA	DCM 67 - RELOCATE SS TO AVOID W

DESIGNED BY: KS
 DRAWN BY: RKU
 CHECKED BY: RLA
 DATE: APRIL 2012

CDM Smith
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 Sacramento, CA 95833
 Tel: (916) 667-9900



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 UNDERGROUND SERVICE ALERT BY WORKING SAFELY

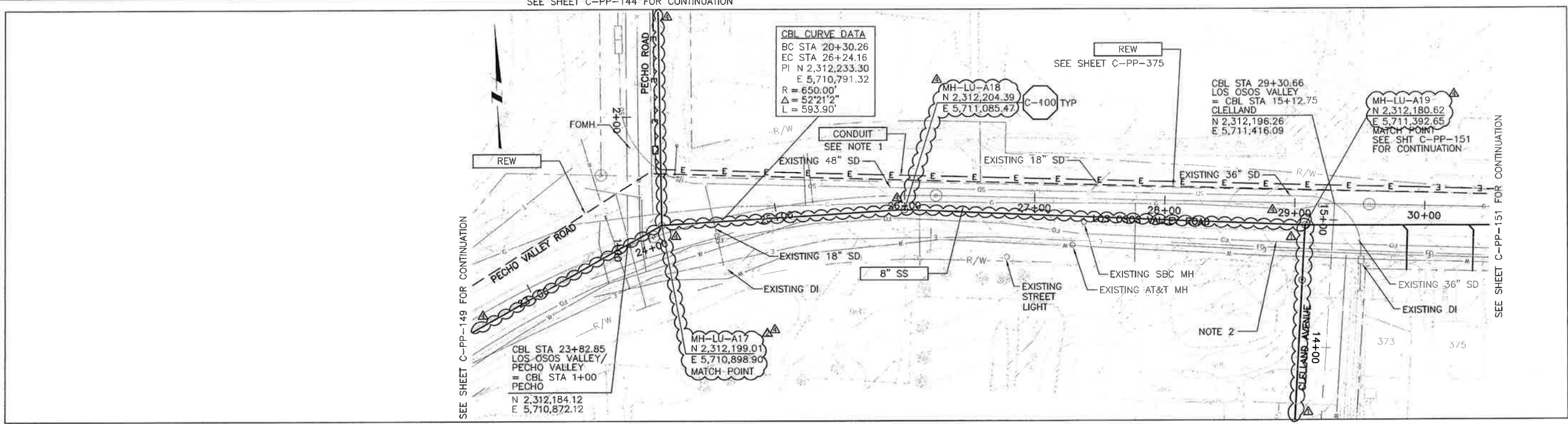
LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE
 PECHO ROAD
 STA 6+73.52 TO STA 1+27.03

PROJECT NO. 42502-83120
 FILE NAME: C-PP-144
 SHEET NO. C-PP-144.7

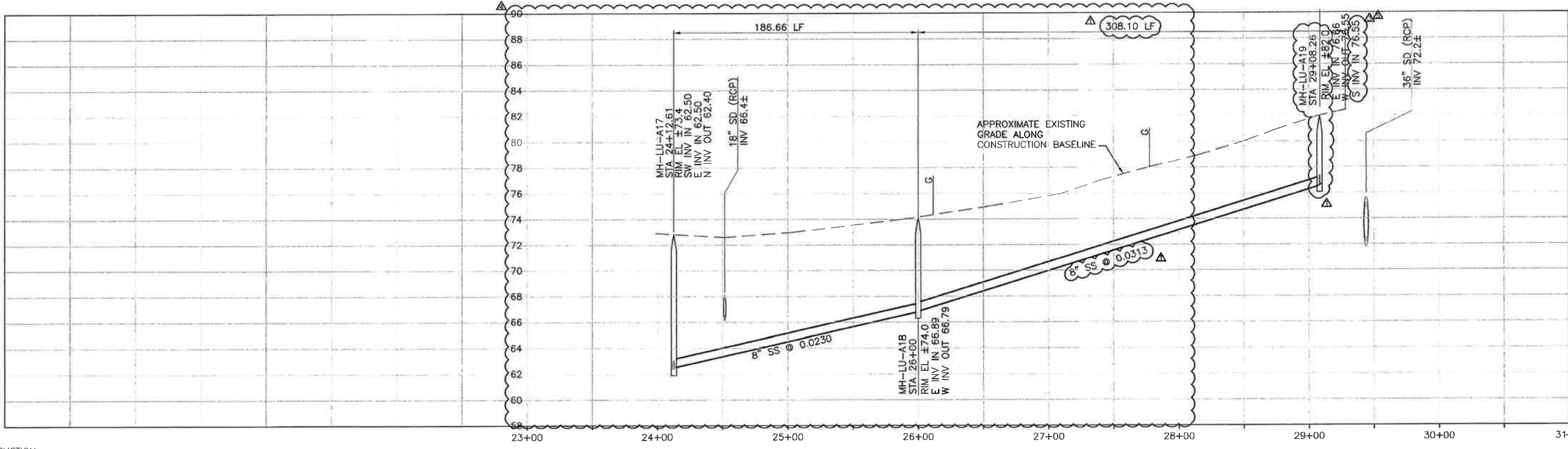
SCALE:
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 VERT: 1"=4'

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PLAN ON LOS OSOS VALLEY ROAD



NOTE:
 1. REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.

REV. NO.	DATE	DRWN	CHKD	REMARKS
3/24/14	LLB	RLA	DCM	80 - LOWER SS AT MH A19
5/08/13	LLB	RLA	RFI	80 - RELOCATE SS TO CLEAR GAS MAIN
2/26/13	LLB	RLA	RFI	62 - RELOCATE SS TO AVOID FO & W
12/20/12	LLB	RLA	MEMO	89 - NORTHING AND EASTING UPDATES
11/27/12	LLB	BJC	RFI	06 - ALIGNMENT ADJUSTMENT

DESIGNED BY: KS
 DRAWN BY: RKU
 CHECKED BY: RLA
 DATE: APRIL 2012

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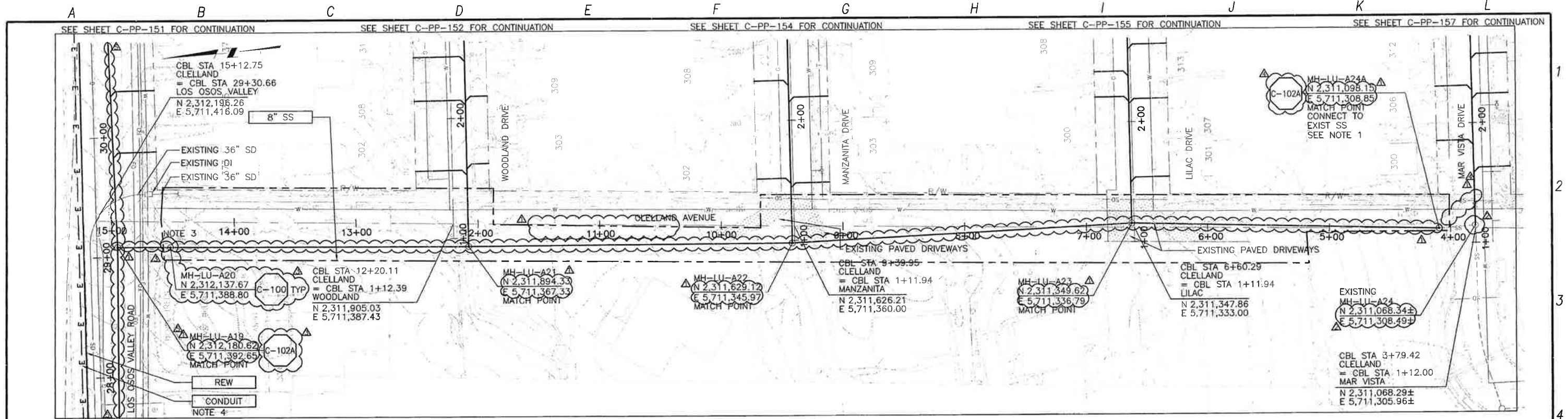
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LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE
 LOS OSOS VALLEY ROAD
 STA 23+99.73 TO STA 29+30.17

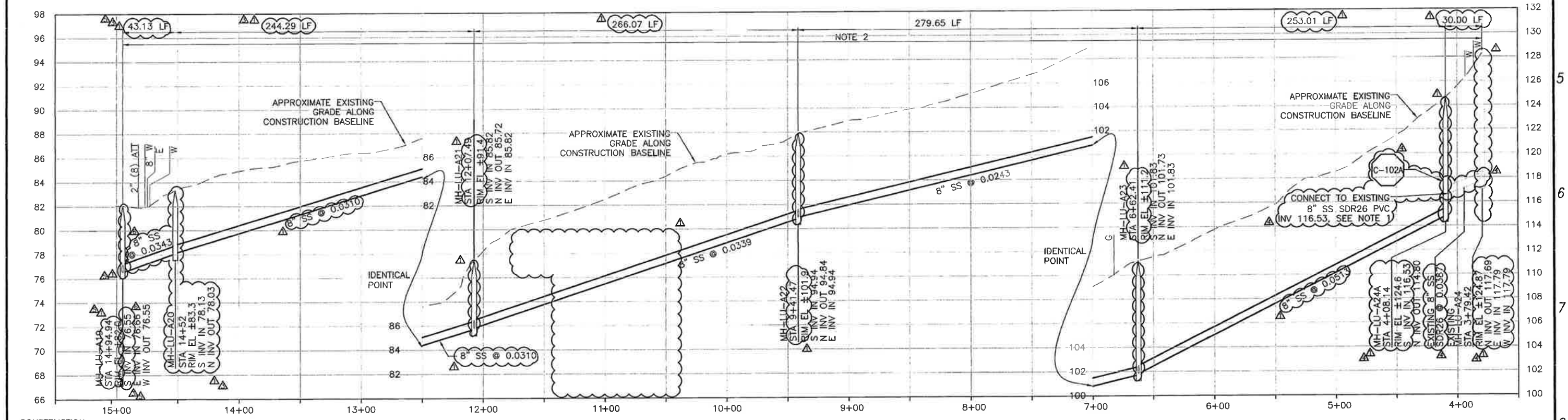
PROJECT NO. 42502-83120
 FILE NAME: C-PP-145
 SHEET NO. C-PP-145.5

SCALE:
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 VERT: 1"=4'

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PLAN ON CLELLAND AVENUE



PROFILE ON CLELLAND AVENUE

CONSTRUCTION BASELINE STATION

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	3/24/14	LLB	RLA	DCM 80 - LOWER SS AT MH A19
2	5/08/13	LLB	RLA	RFI 80 - RELOCATE SS TO AVOID GAS MAIN
3	3/13/13	LLB	RLA	RFI 69 - RAISE SS TO MATCH EXIST INV
4	7/26/13	LLB	RLA	RFI 62 - RELOCATE SS TO AVOID FD & W
5	12/20/12	LLB	RLA	MEMO 89 - NORTHING AND EASTING UPDATES

DESIGNED BY: KS
 DRAWN BY: RLU
 CHECKED BY: RLA
 DATE: APRIL 2012

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0 1/2 1

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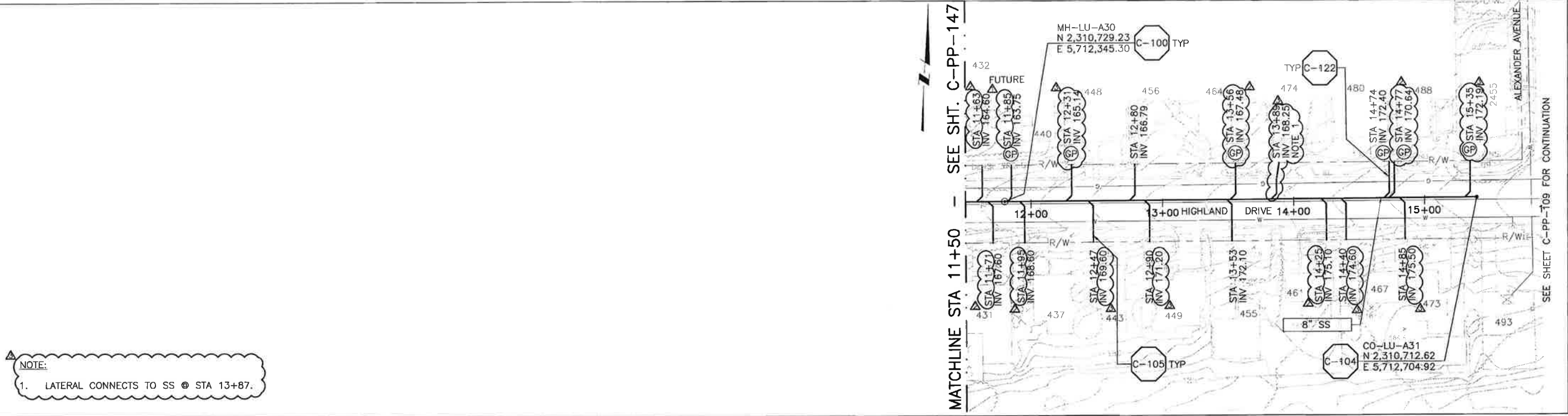
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LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
CLELLAND AVENUE
 STA 15+00.75 TO STA 3+79.42

PROJECT NO. 42502-83120
 FILE NAME: C-PP-146
 SHEET NO. C-PP-146.6

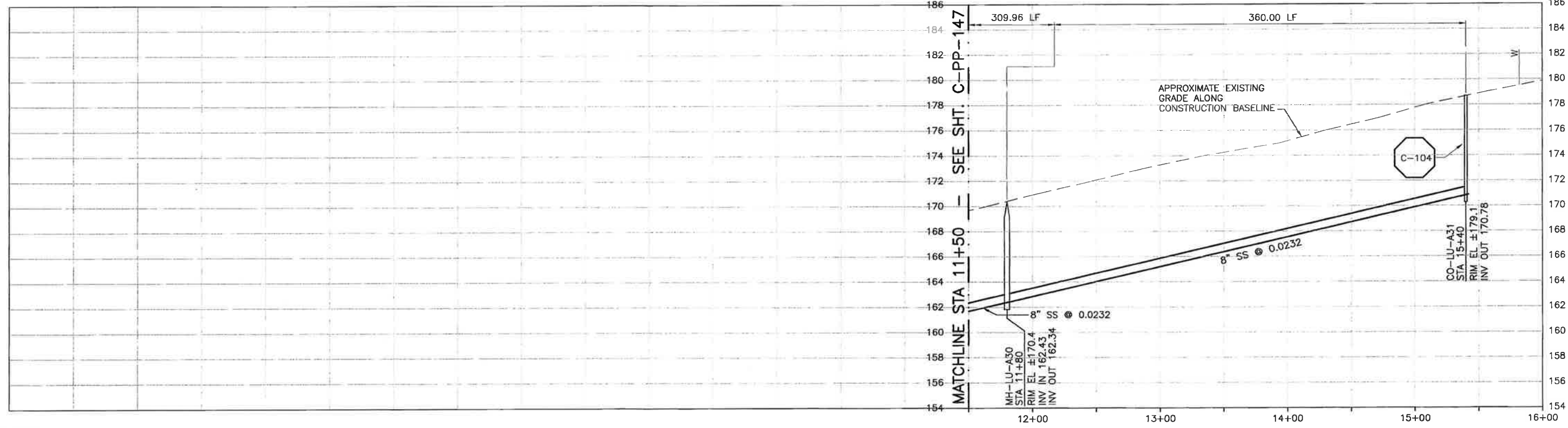
SCALE:
 HORZ: 1"=40'
 VERT: 1"=4'

A B C D E F G H I J K L



NOTE:
1. LATERAL CONNECTS TO SS @ STA 13+87.

PLAN ON HIGHLAND DRIVE



PROFILE ON HIGHLAND DRIVE

CONSTRUCTION
BASELINE
STATION

SCALE:
HORZ: 1"=40'
VERT: 1"=4'

REV. NO.	DATE	DRWN	CHKD	REMARKS
6/18/13	LLB	RLA		NOC 39 - LATERAL RELOCATION
5/09/13	LLB	RLA		NOC 30 - LATERAL RELOCATIONS
3/28/13	LLB	RLA		RFI 72 - LATERAL RELOCATION

DESIGNED BY: KS
DRAWN BY: RRU
CHECKED BY: RLA
DATE: APRIL 2012

CDM Smith
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Sacramento, CA 95833
Tel: (916) 567-9900



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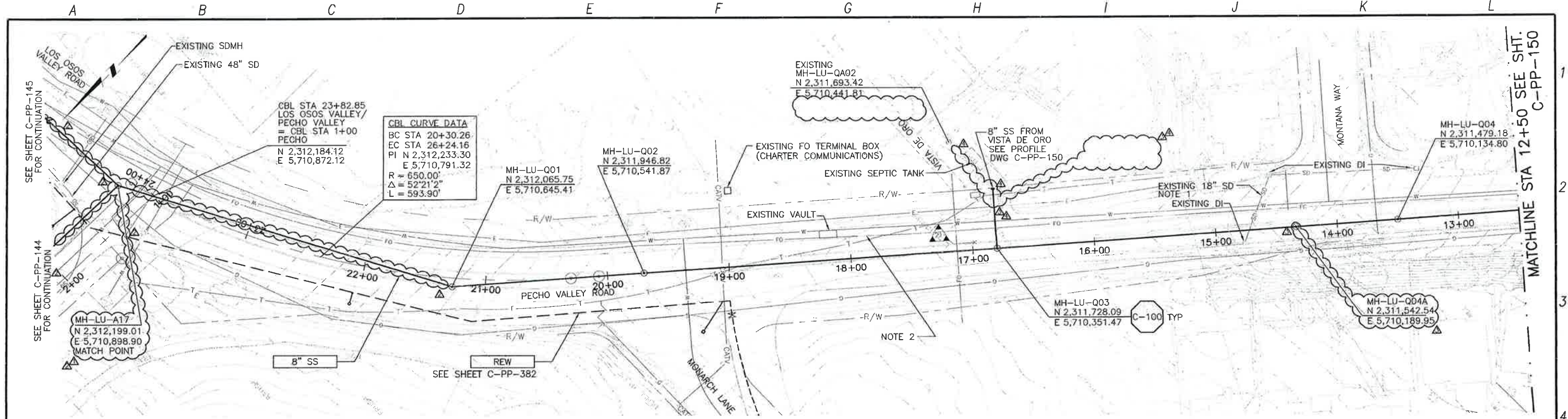
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LOS OSOS WASTEWATER COLLECTION SYSTEM
**PLAN AND PROFILE
HIGHLAND DRIVE
STA 11+50 TO STA 15+40**

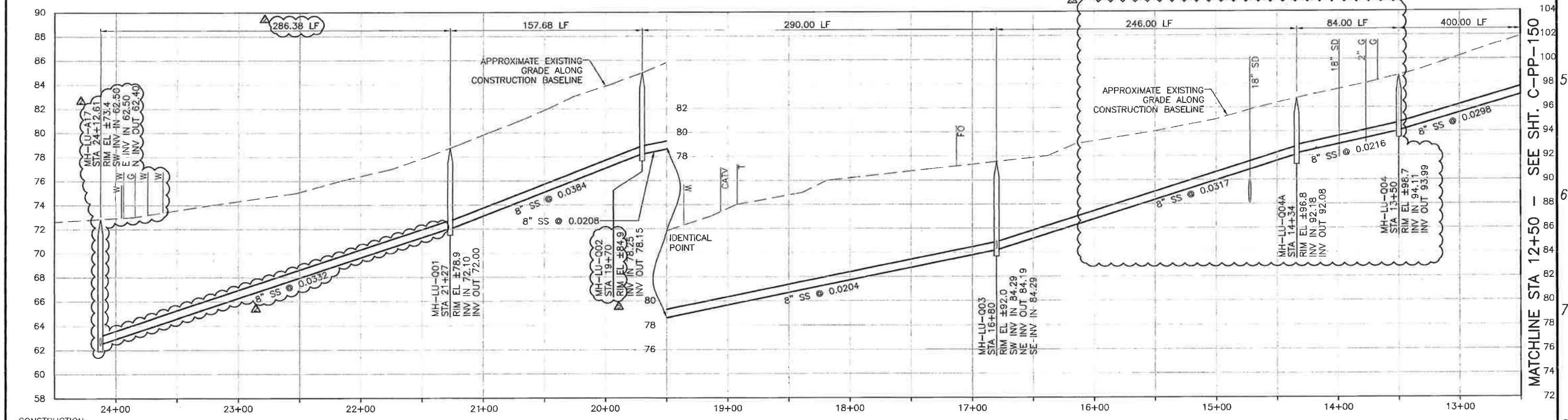
PROJECT NO. 42502-B3120
FILE NAME: C-PP-148
SHEET NO.
C-PP-148.3

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PLAN ON PECHO VALLEY ROAD



PROFILE ON PECHO VALLEY ROAD

- CONSTRUCTION BASELINE STATION
- NOTES:**
- CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF EXISTING STORM DRAIN FACILITIES PRIOR TO BEGINNING WORK.
 - MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT MANHOLES.

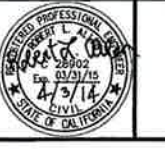
REV. NO.	DATE	DRWN	CHKD	REMARKS
4/03/14	LLB	RLA	DCM	B3 - MH RIM CLARIFIED
3/31/14	LLB	RLA	NOC	B2 - DELETE THE IN
6/19/13	LLB	RLA	RFI	B7 - MOVE MH TO AVOID ELE.
5/08/13	LLB	RLA	RFI	B9 - PROFILE ADJUSTMENT TO CLEAR SD/GAS
5/08/13	LLB	RLA	RFI	B0 - RELOCATE SS TO CLEAR GAS MAIN

DESIGNED BY: KS
 DRAWN BY: RLU
 CHECKED BY: RLA
 DATE: APRIL 2012

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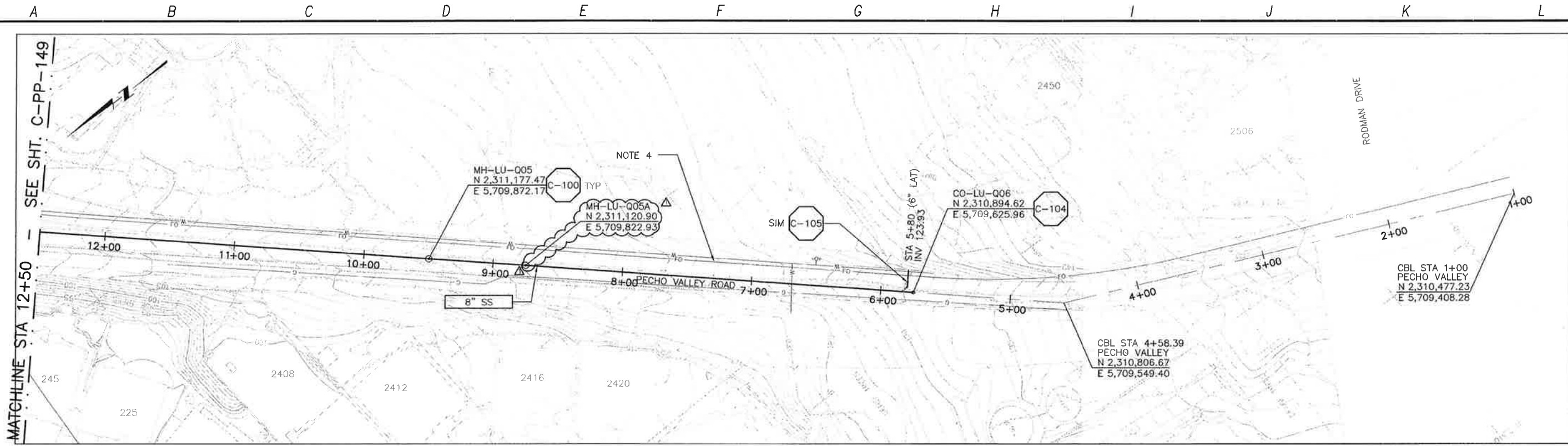
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LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
PECHO VALLEY ROAD
 STA 23+99.73 TO STA 12+50

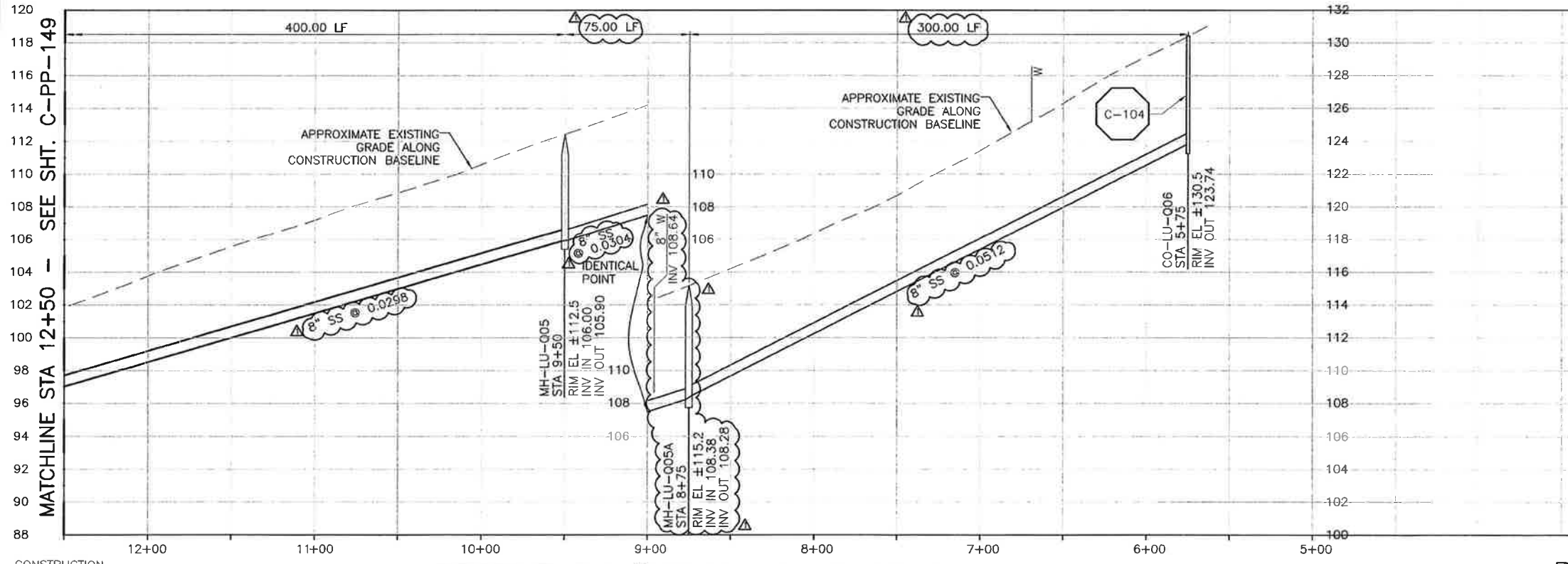
PROJECT NO. 42502-83120
 FILE NAME: C-PP-149
 SHEET NO. C-PP-149.5

WCD 174

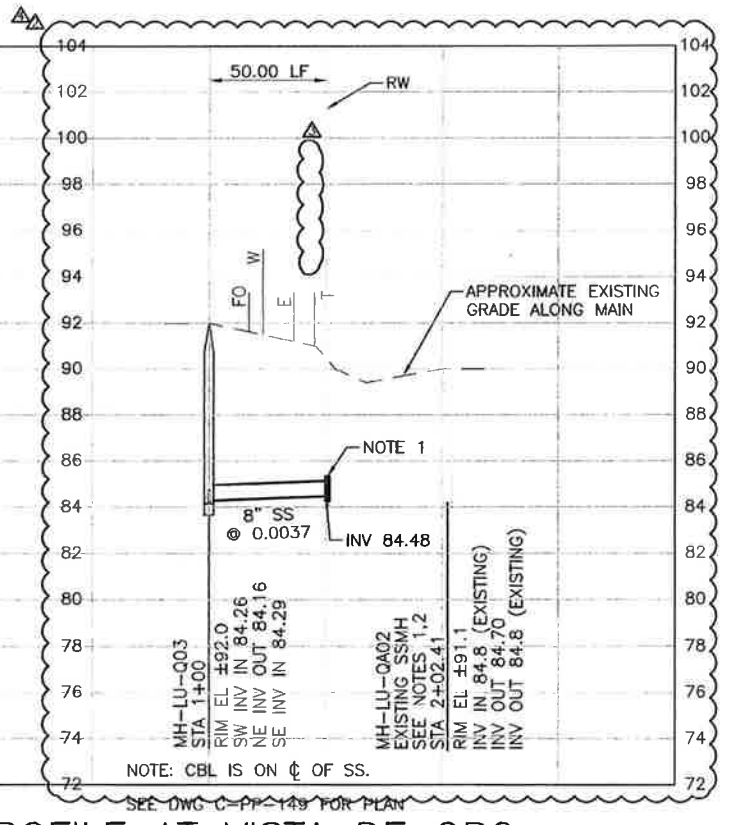
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PLAN ON PECHO VALLEY ROAD



PROFILE ON PECHO VALLEY ROAD



PROFILE AT VISTA DE ORO

NOTES:
 1. CONTRACTOR SHALL CAP END OF STUB SS AND STAKE FOR FUTURE CONNECTION.

4. MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT MANHOLES.

REV. NO.	DATE	DRWN	CHKD	REMARKS
3/31/14	LLB	RLA		NOC B2 - DELETE TIE IN
6/25/13	LLB	MDM		RFI 87 - DRAWING CORRECTION
6/19/13	LLB	MDM		RFI 87 - MOVE MH TO AVOID ELE
6/04/13	LLB	MDM		RFI 103 - LOWER SS TO AVOID W

DESIGNED BY: KS
 DRAWN BY: RKU
 CHECKED BY: RLA
 DATE: APRIL 2012

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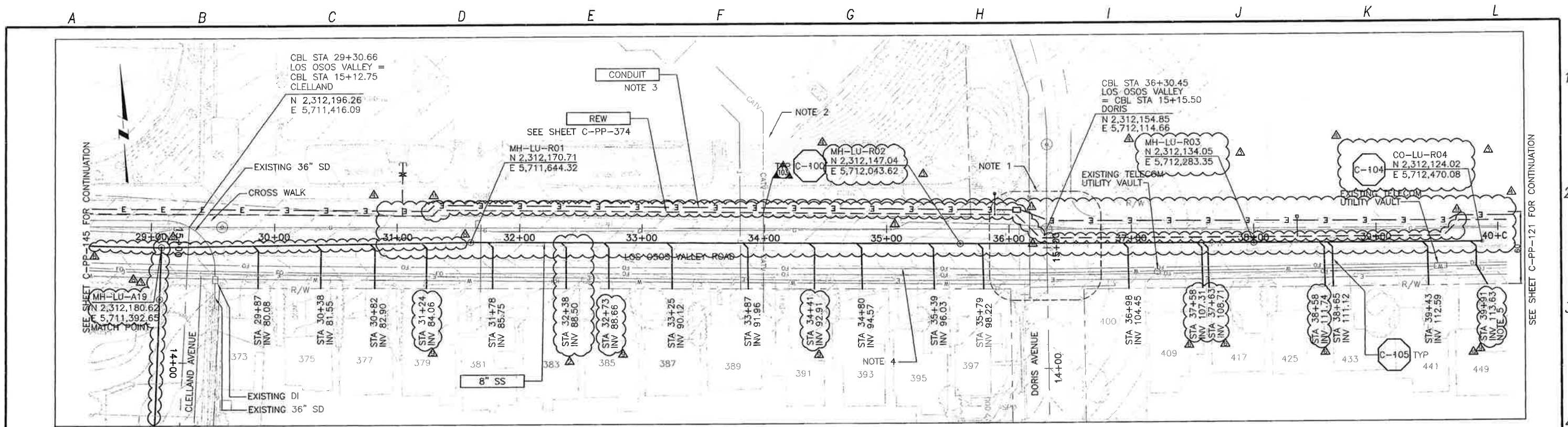


LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
PECHO VALLEY ROAD
 STA 12+50 TO STA 5+75

PROJECT NO. 42502-83120
 FILE NAME: C-PP-150
 SHEET NO.
C-PP-150.4

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

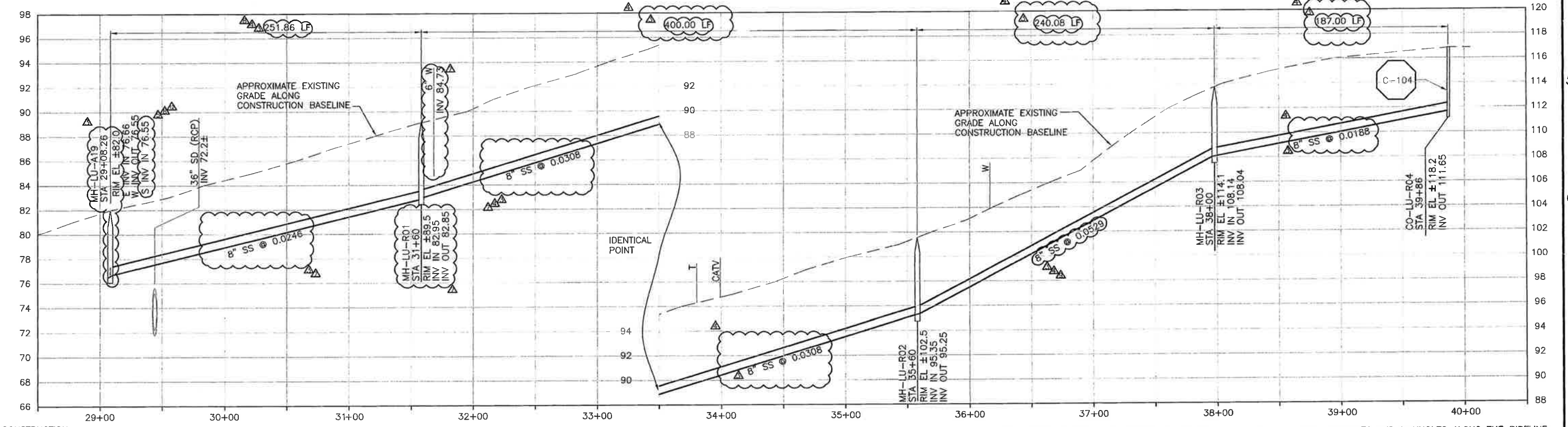
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SEE SHEET C-PP-146 FOR CONTINUATION

SEE SHEET C-PP-121 FOR CONTINUATION

PLAN ON LOS OSOS VALLEY ROAD



CONSTRUCTION BASELINE STATION

NOTES:

- CONTRACTOR SHALL REPAIR EXISTING TRAFFIC CONTROL SYSTEM, INCLUDING INSTALLING NEW DETECTOR LOOPS, WHERE CONSTRUCTION RESULTS IN DAMAGE TO EXISTING SYSTEM. CONTRACTOR SHALL COORDINATE REPAIRS WITH COUNTY OF SAN LUIS OBISPO.
- CONTRACTOR TO VERIFY DEPTH OF CATV FACILITY.
- REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.
- MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT MANHOLES.
- LATERAL CONNECTS TO SS @ 39+82.

PROFILE ON LOS OSOS VALLEY ROAD

REV. NO.	DATE	DRWN	CHKD	REMARKS
3/24/14	LLB	RLA	DCM 80 - LOWER SS AT MH A19	
7/17/13	LLB	RLA	RFI 113 - REW & CONDUIT REALIGNMENT	
6/16/13	LLB	RLA	NOC 39 - LATERAL RELOCATION	
5/29/13	LLB	RLA	NOC 34 - LATERAL RELOCATIONS	
5/08/13	LLB	RLA	RFI 80 - RELOCATE SS TO AVOID GAS MAIN	

DESIGNED BY: KS
 DRAWN BY: RKU
 CHECKED BY: RLA
 DATE: APRIL, 2012

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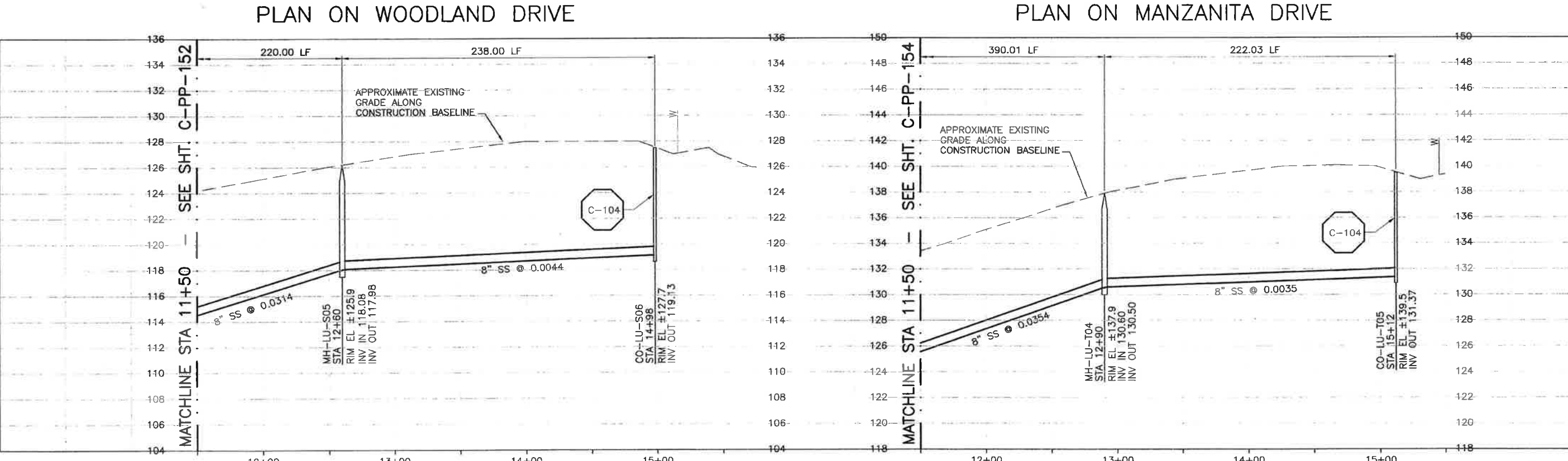
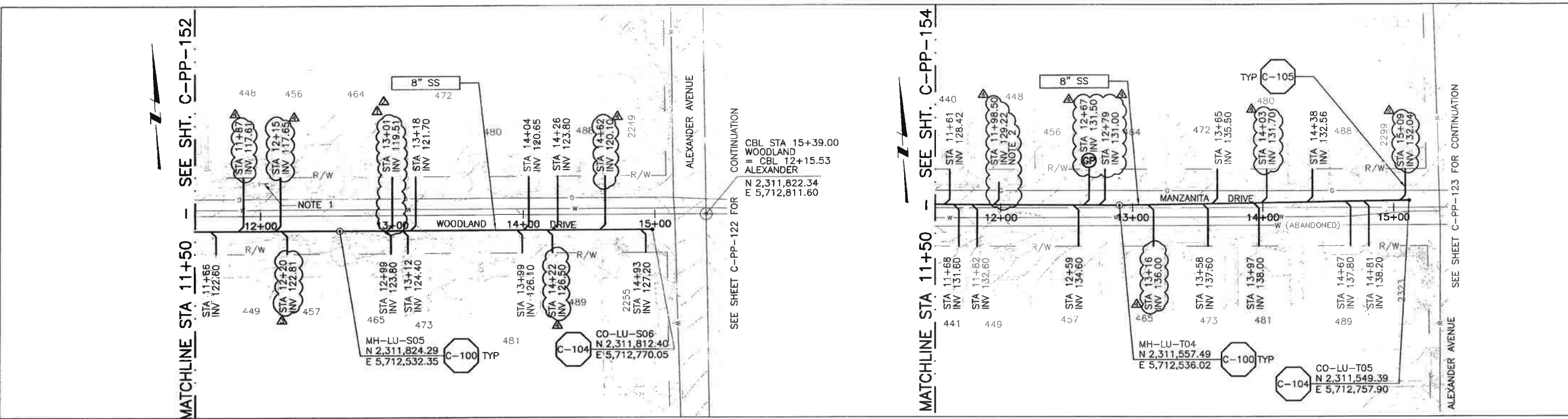


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LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
 LOS OSOS VALLEY ROAD
 STA 29+30.17 TO STA 39+87
 PROJECT NO. 42502-83120
 FILE NAME: C-PP-151
 SHEET NO. C-PP-151.10

CDM SMITH AND ASSOCIATES, INC. 2295 Gateway Oaks Drive, Suite 240, Sacramento, CA 95833
 PROJECT NO. 42502-83120, FILE NAME: C-PP-153, SHEET NO. C-PP-153.2
 DATE: APRIL 2012

A B C D E F G H I J K L



NOTES:

- CONTRACTOR SHALL TEMPORARILY SUPPORT EXISTING POWER POLE AS REQUIRED. COORDINATE WITH PG&E.
- END OF LATERAL 10 FEET FROM PROPERTY LINE.

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	5/01/13	LLB	RLA	NOC 30 - LATERAL RELOCATIONS
2	4/23/13	LLB	RLA	NOC 29 - LATERAL RELOCATION
3	10/25/12	DPM	RLA	LATERAL RELOCATION
4	10/10/12	LLB	RLA	LATERAL RELOCATION

DESIGNED BY: KS
 DRAWN BY: RLU
 CHECKED BY: RLA
 DATE: APRIL 2012

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

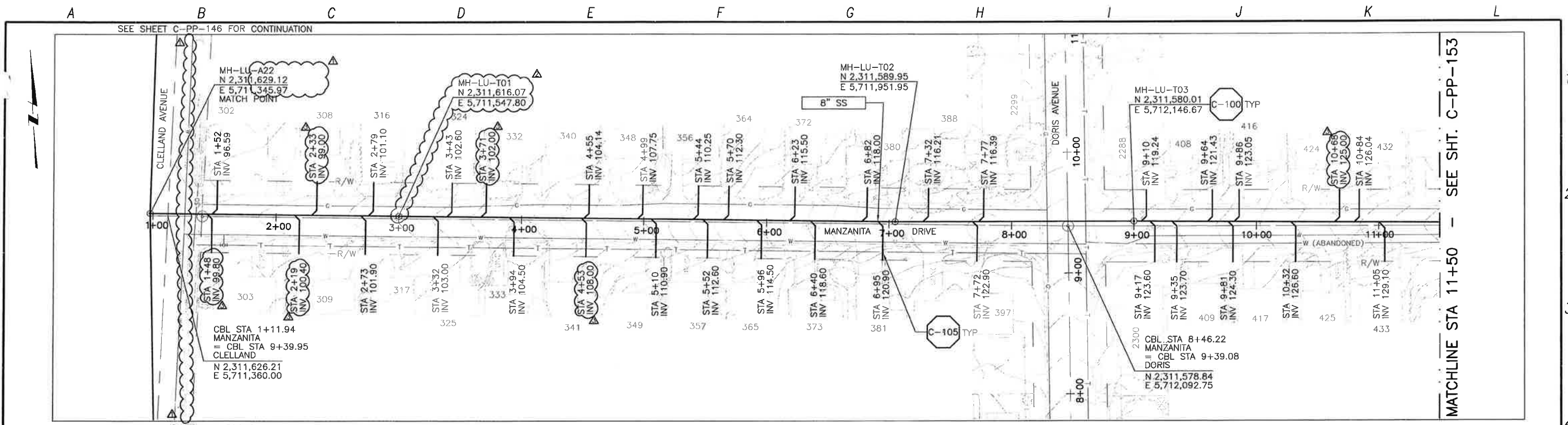
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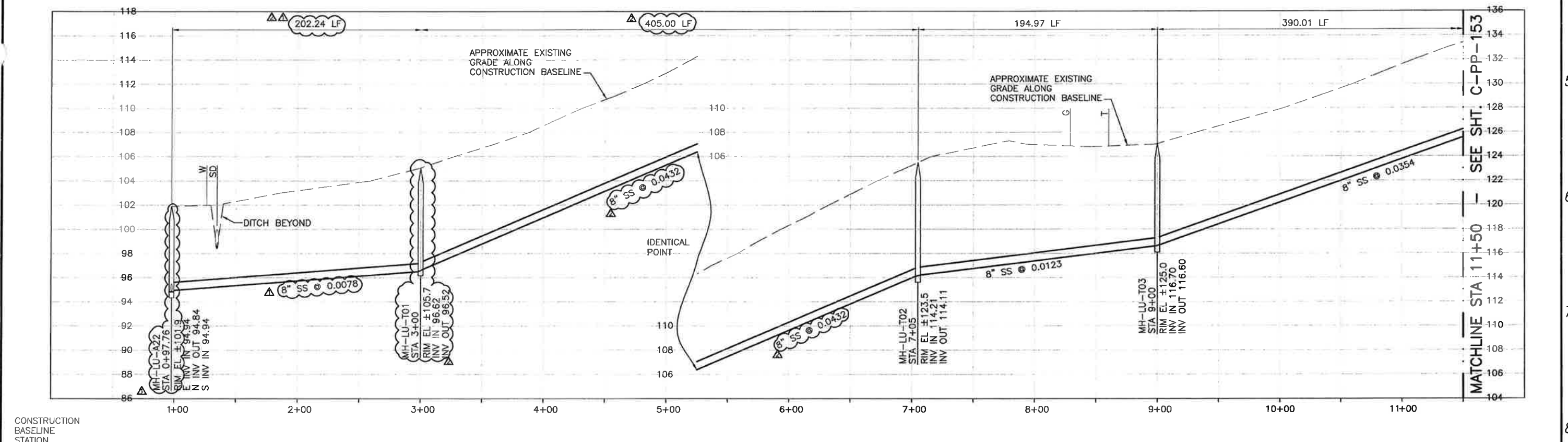
LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
 WOODLAND DRIVE - 11+50 TO 14+98
 MANZANITA DRIVE - 11+50 TO 15+12

PROJECT NO. 42502-83120
 FILE NAME: C-PP-153
 SHEET NO.
C-PP-153.2

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PLAN ON MANZANITA DRIVE



PROFILE ON MANZANITA DRIVE

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	5/09/13	LLB	RLA	NOC 30 - LATERAL RELOCATIONS
2	2/28/13	LLB	RLA	RFI 65 - RELOCATE MH TO AVOID WS
3	11/27/12	LLB	RLA	RFI 06 - ALIGNMENT ADJUSTMENT

DESIGNED BY: KS
 DRAWN BY: RKU
 CHECKED BY: RLA
 DATE: APRIL 2012

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 Tel: (916) 567-9900



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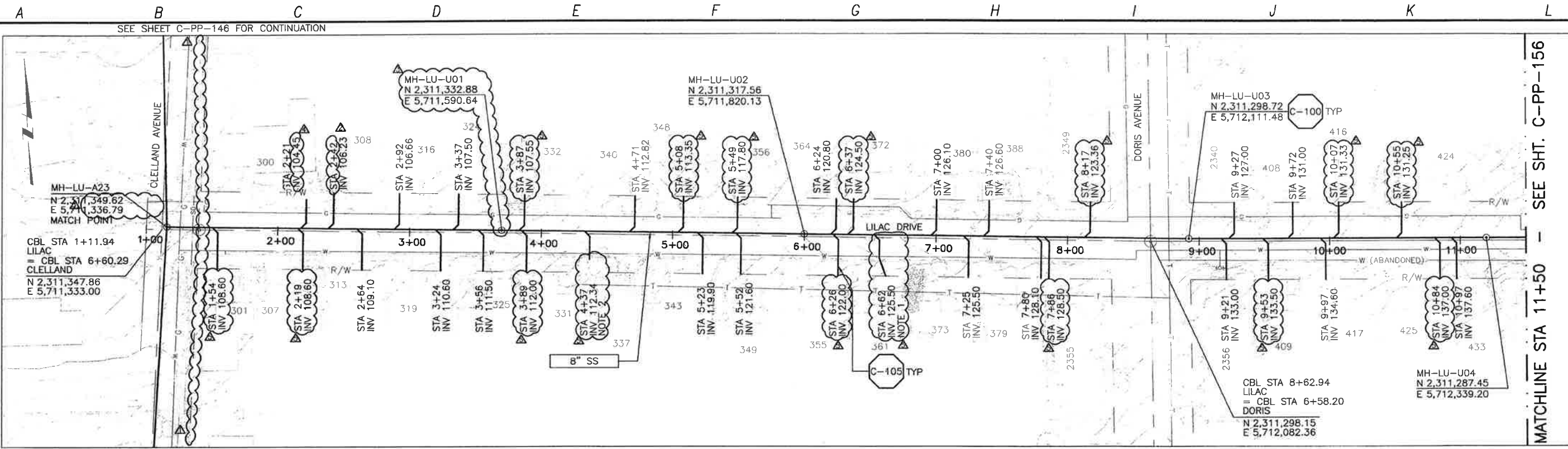
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LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
MANZANITA DRIVE
 STA 1+12 TO STA 11+50

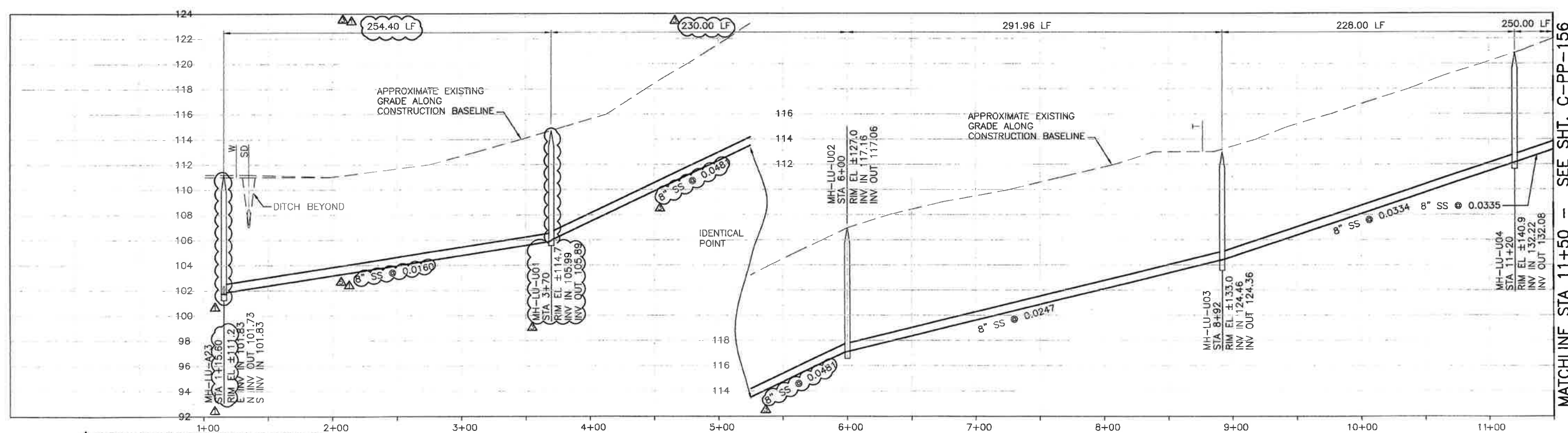
SCALE:
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 VERT: 1"=4'

PROJECT NO. 42502-83120
 FILE NAME: C-PP-154
 SHEET NO.
C-PP-154.3

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PLAN ON LILAC DRIVE



PROFILE ON LILAC DRIVE

- NOTES:
- LATERAL CONNECTS TO SS AT STA 6+57.
 - LATERAL ENDS 10' FROM PROPERTY LINE.

REV. NO.	DATE	DRWN	CHKD	REMARKS
5/09/13	LLB	RLA	NOC 30	- LATERAL RELOCATIONS
3/13/13	LLB	RLA	DCM 31	- LATERAL INVERT ADJUSTMENT
2/28/13	LLB	RLA	RFI 66	- RELOCATE MH TO CLEAR GS
2/12/13	LLB	RLA	NOC 26	- LATERAL INVERT ADJUSTMENT
11/27/12	LLB	BJC	RFI 06	- ALIGNMENT ADJUSTMENT

DESIGNED BY: KS
 DRAWN BY: RKU
 CHECKED BY: RLA
 DATE: APRIL 2012

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 Sacramento, CA 95833
 Tel: (916) 567-9900



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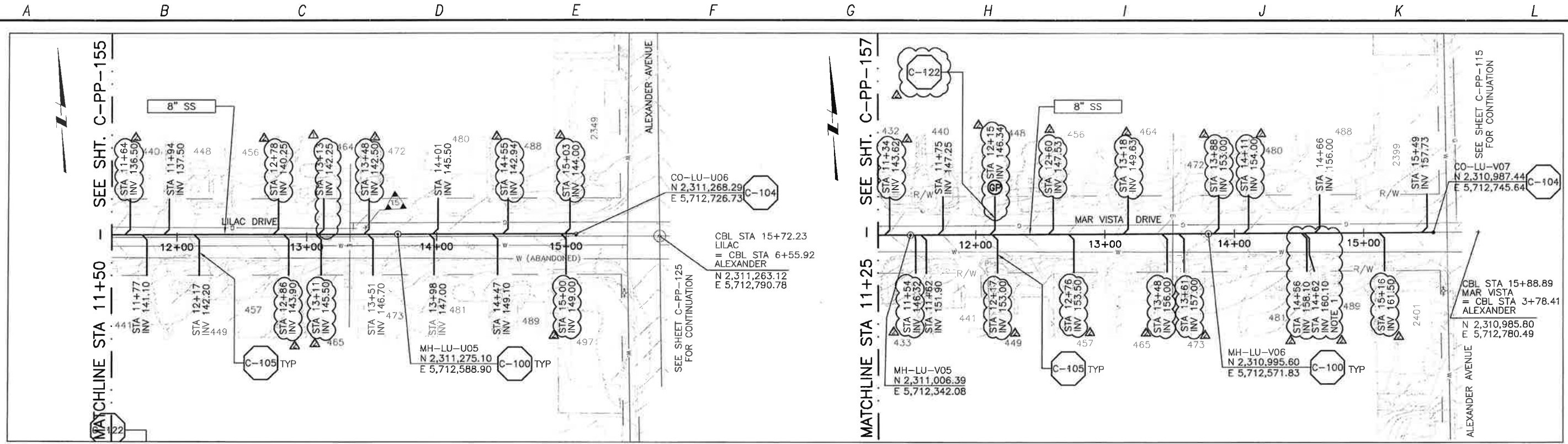
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LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
LILAC DRIVE
 STA 1+12 TO STA 11+50

PROJECT NO. 42502-83120
 FILE NAME: C-PP-155
 SHEET NO.
C-PP-155.5

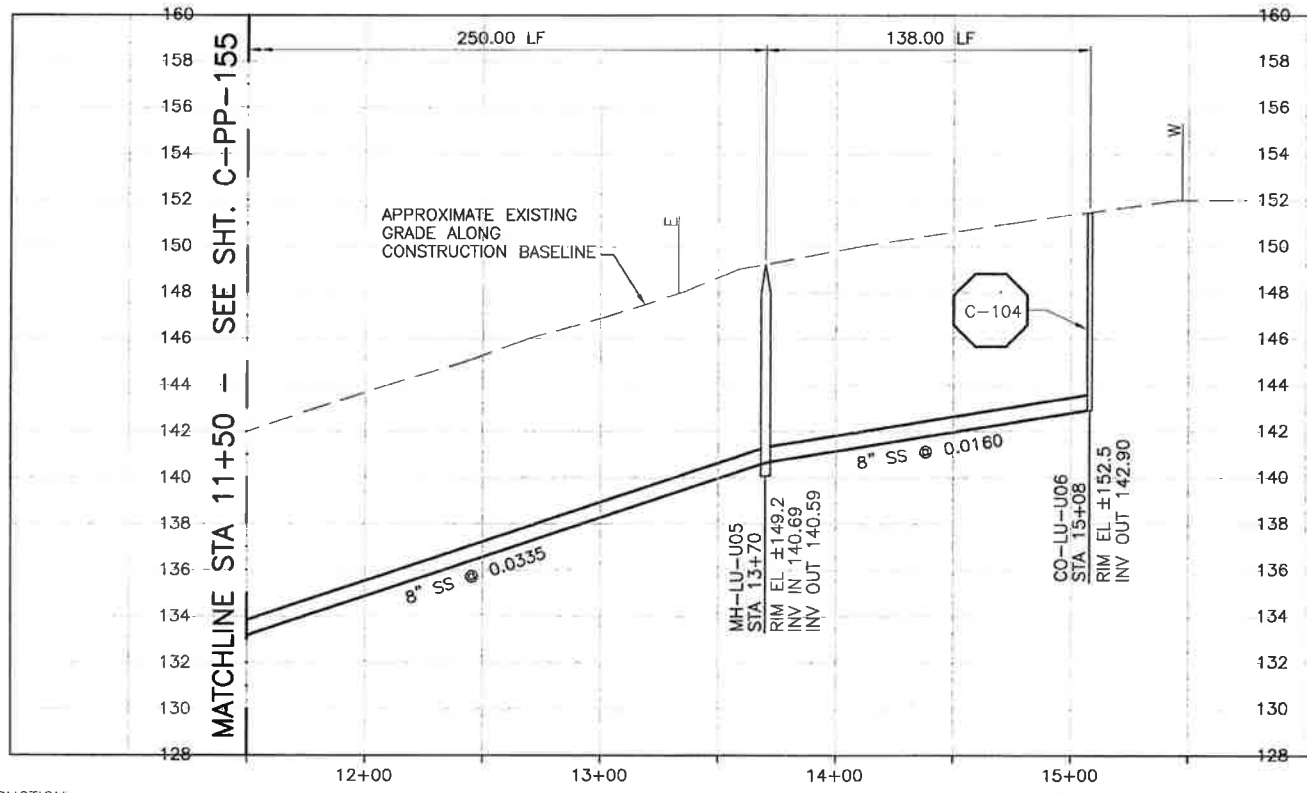
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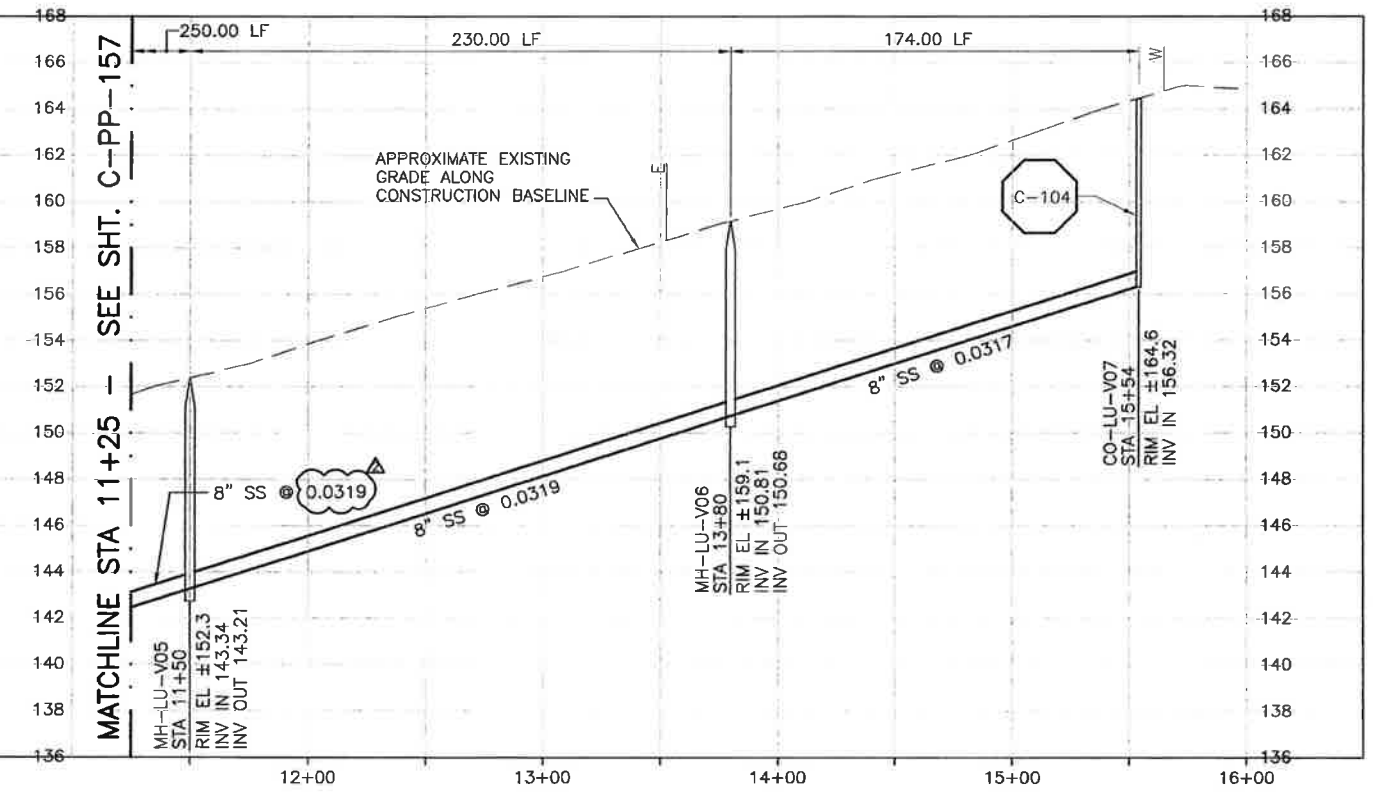


PLAN ON LILAC DRIVE

PLAN ON MAR VISTA DRIVE



PROFILE ON LILAC DRIVE



PROFILE ON MAR VISTA DRIVE

NOTE:
1. LATERAL CONNECTS TO SS AT STA 14+58.

CONSTRUCTION
BASELINE
STATION

REV. NO.	DATE	DRWN	CHKD	REMARKS
5/09/13	LLB	RLA		NOC 30 - LATERAL RELOCATIONS
10/10/12	LLB	RLA		LATERAL RELOCATIONS

DESIGNED BY: KS
DRAWN BY: RKU
CHECKED BY: RLA
DATE: APRIL 2012

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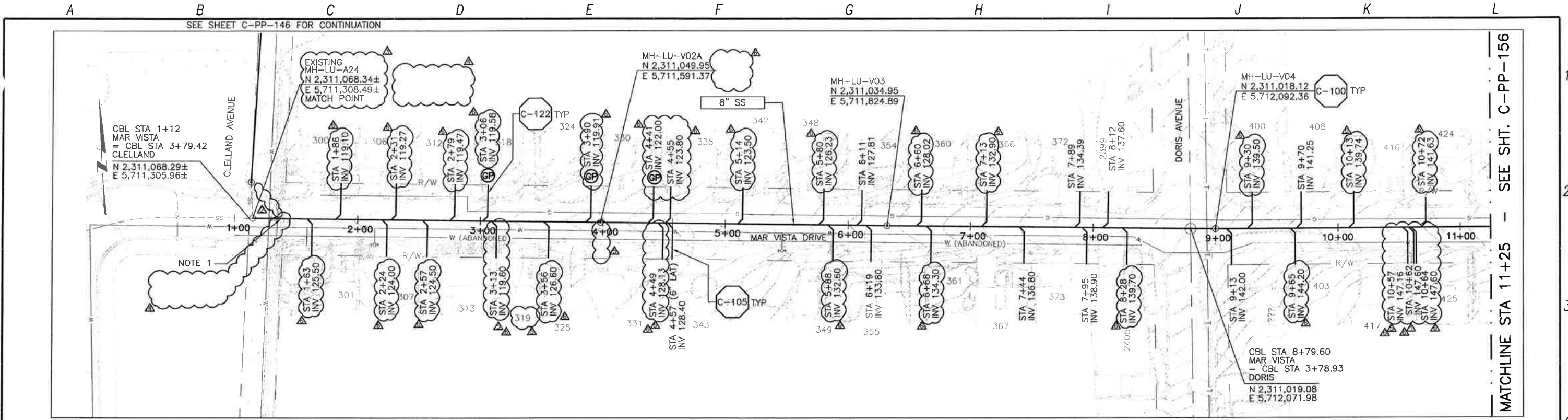


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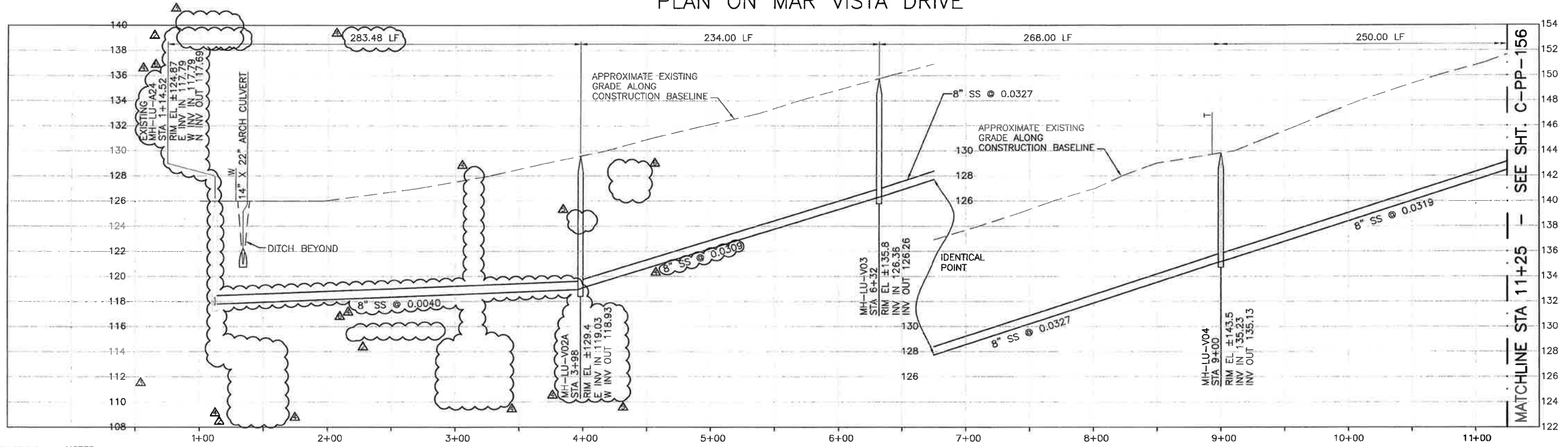
LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
LILAC DRIVE - 11+50 TO 15+08
MAR VISTA DRIVE - 11+25 TO 15+54

SCALE:
HORZ: 1"=40'
VERT: 1"=4'
PROJECT NO. 42502-83120
FILE NAME: C-PP-156
SHEET NO.
C-PP-156.1

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PLAN ON MAR VISTA DRIVE



PROFILE ON MAR VISTA DRIVE

CONSTRUCTION BASELINE STATION

NOTES:

- CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF EXISTING SS CONNECTION POINT PRIOR TO BEGINNING WORK.

LOW HANGING WIRE TO 300 & 306 FROM 301 POLE.

REV. NO.	DATE	DRWN	CHKD	REMARKS
5/09/13	LLB	RLA		NOC 30 - LATERAL RELOCATIONS
3/28/13	LLB	RLA		RFI 72 - CLARIFY LATERAL LOCATIONS
3/13/13	LLB	RLA		RFI 69 - RAISE SS TO MATCH EXIST INV
12/20/12	LLB	RLA		MEMO 89 - NORTHING AND EASTING UPDATES
11/27/12	LLB	RLA		RFI 06 - ALIGNMENT ADJUSTMENT

DESIGNED BY: KS
 DRAWN BY: RLU
 CHECKED BY: RLA
 DATE: APRIL 2012

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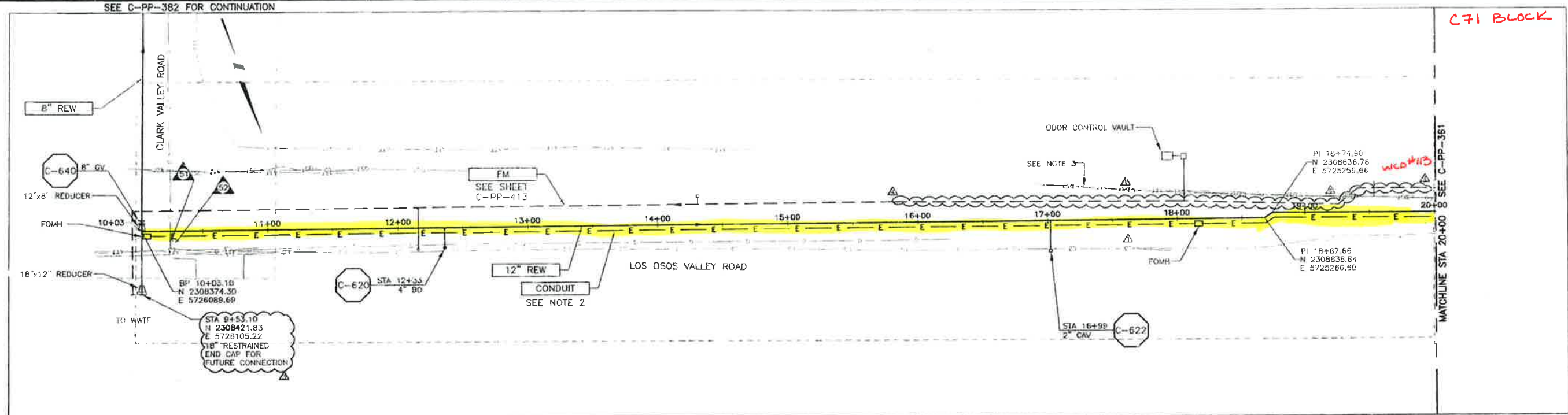
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 VERT: 1"=4'

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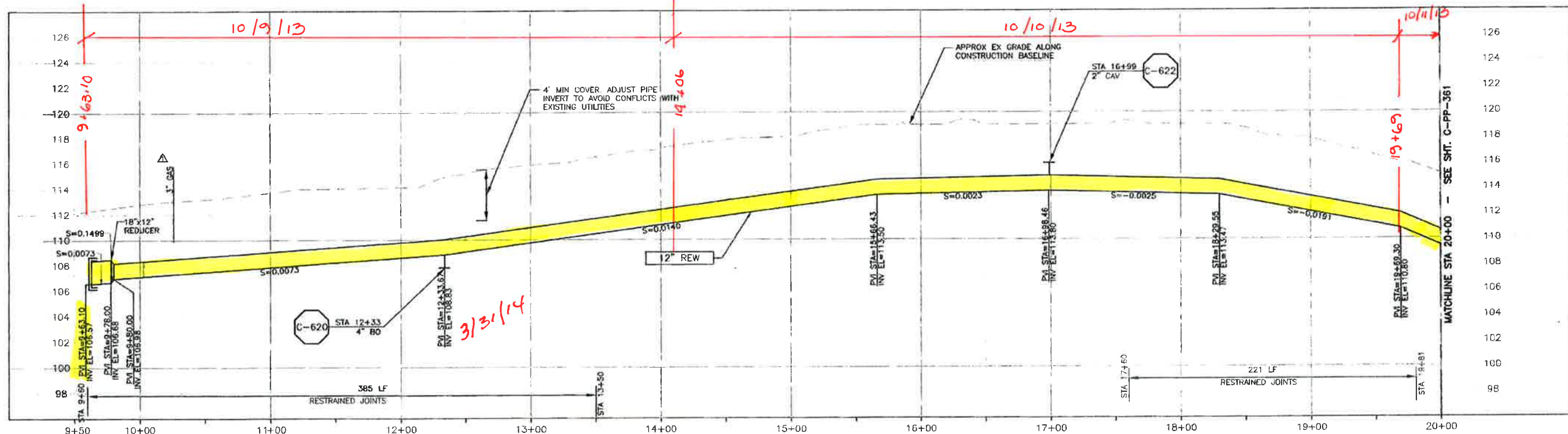
LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE
MAR VISTA DRIVE
STA 1+12 TO STA 11+25

PROJECT NO. 42502-8312C
 FILE NAME: C-PP-157
 SHEET NO.
C-PP-157.5

A B C D E F G H I J K L



PLAN ON LOS OSOS VALLEY ROAD



PROFILE ON LOS OSOS VALLEY ROAD

- CONSTRUCTION BASELINE STATION: 9+50
- NOTES
1. NOMINAL REW FORCE MAIN PIPE SIZE CALLOUT IS FOR PVC PIPE MATERIAL. IF HDPE IS UTILIZED, NOMINAL PIPE SIZE SHALL BE 14"
 2. REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.
 3. MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT MANHOLES.

REV NO	DATE	DRWN	CHKD	REMARKS
1	9/19/13	LLB	RLA	RFI 135 - RELOCATE FM TO AVOID AT&T
2	5/14/13	LLB	RLA	DCM 38 - DRAWING CLARIFICATIONS
3	7/2012	LLB	RLA	CONFORMED
4	5/18/12	LLB	RLA	ADDENDUM #1

DESIGNED BY: KS, RJA
 DRAWN BY: JBL
 CHECKED BY: BJC
 DATE: APRIL 2012

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 Sacramento, CA 95833
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 Exp. 5/31/15
 9/19/13

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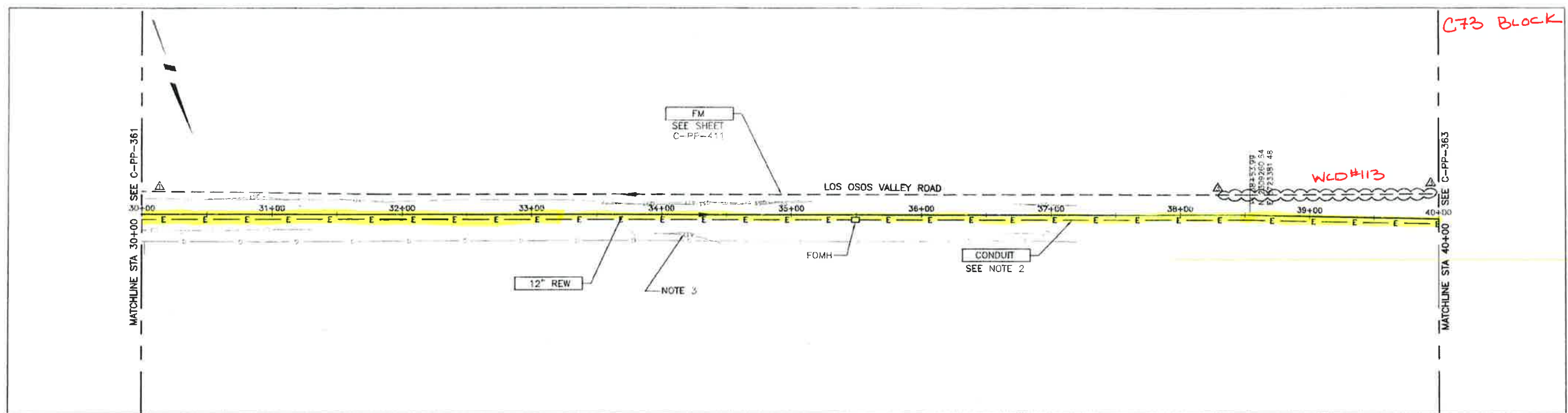
LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE - REW
 LOS OSOS VALLEY ROAD
 STA 9+63.10 TO STA 20+00

SCALE:
 HORZ: 1"=40'
 VERT: 1"=4'

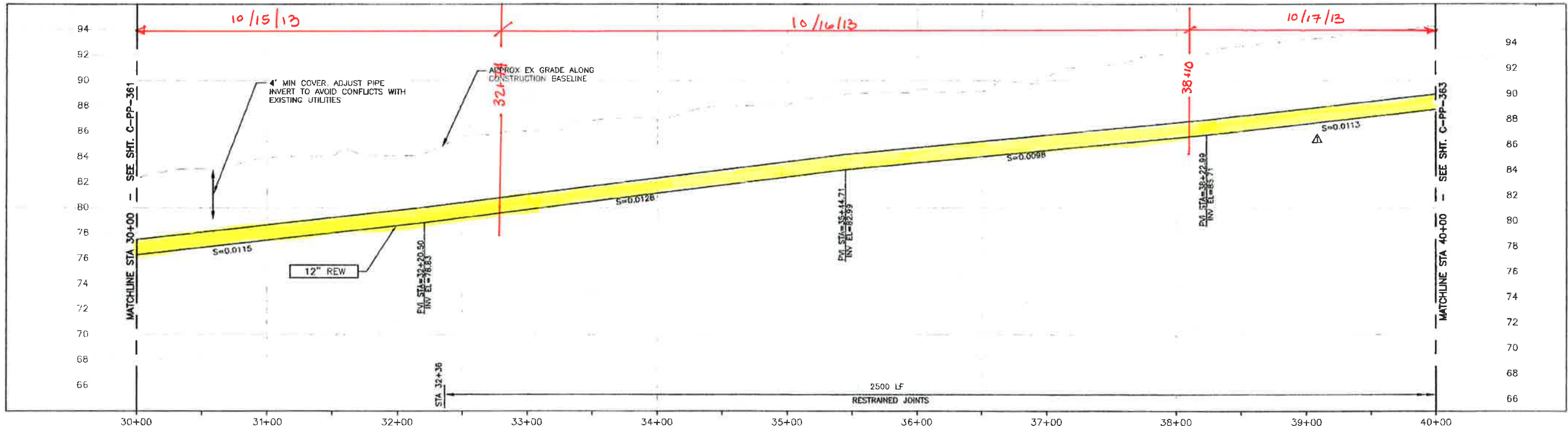
PROJECT NO: 42502-83120
 FILE NAME: C-PP-360
 SHEET NO:
C-PP-360.2

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PLAN ON LOS OSOS VALLEY ROAD



PROFILE ON LOS OSOS VALLEY ROAD

CONSTRUCTION
BASELINE
STATION

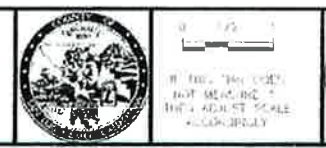
NOTES

1. NOMINAL REW FORCE MAIN PIPE SIZE CALLOUT IS FOR PVC PIPE MATERIAL. IF HDPE IS UTILIZED, NOMINAL PIPE SIZE SHALL BE 14".
2. REFER TO SHEET C-0-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.
3. MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT MANHOLE.

REV NO.	DATE	DRWN	CHKD	REMARKS
1	9/18/13	LLB	RLA	RFI 134 - RELOCATE FM TO AVOID AT&T
2	7/20/12	LLB	RLA	CONFORMED
3	6/16/12	LLB	RLA	ADDENDUM #1

DESIGNED BY: KS, RLA
 CHECKED BY: RKU
 SPECIFIED BY: BJL
 DATE: APRIL 2012

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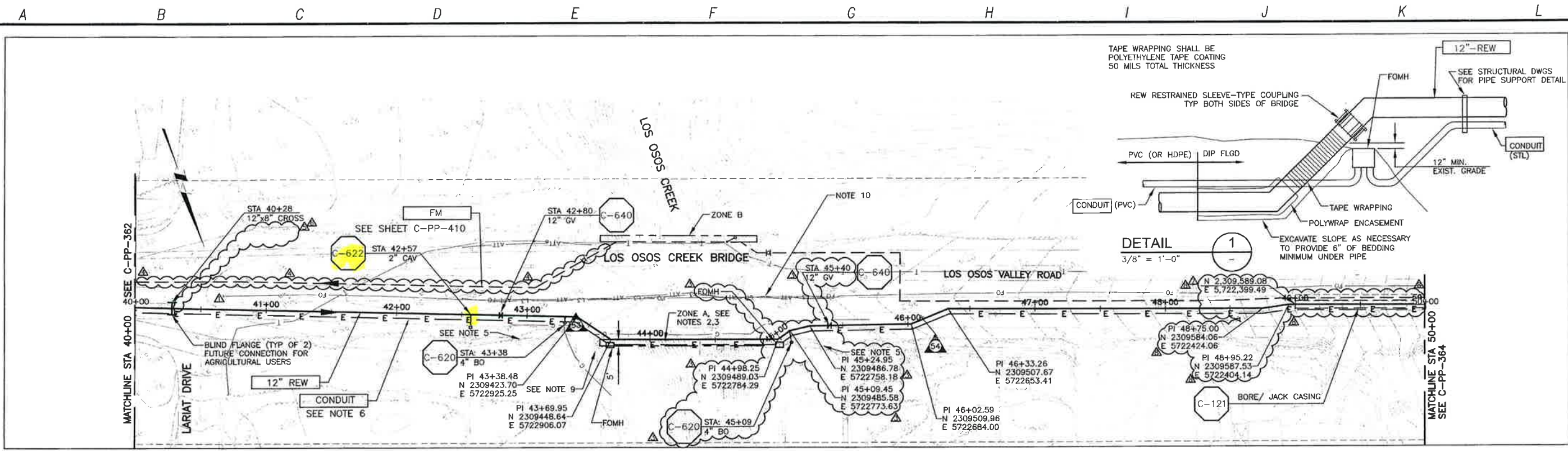
LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE - REW
 LOS OSOS VALLEY ROAD
 STA 30+00 TO STA 40+00

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

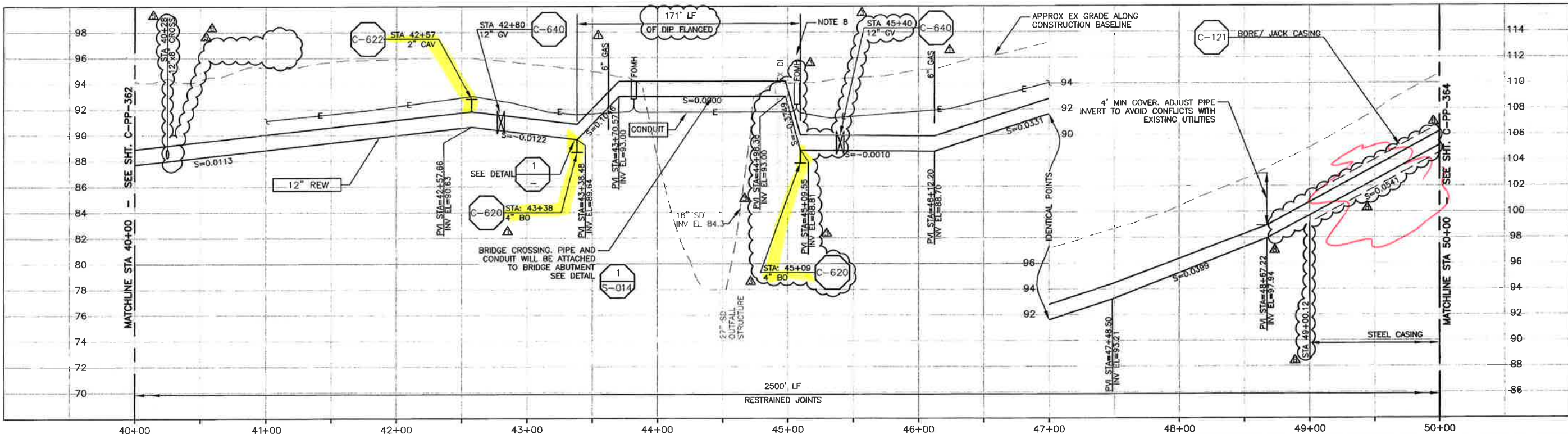
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 FILE NAME C-PP-362
 SHEET NO.
C-PP-362.1

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PLAN ON LOS OSOS VALLEY ROAD



PROFILE ON LOS OSOS VALLEY ROAD

- CONSTRUCTION BASELINE STATION**
- NOTES**
- NOMINAL REW FORCE MAIN PIPE SIZE CALLOUT IS FOR PVC PIPE MATERIAL. IF HDPE IS UTILIZED, NOMINAL PIPE SIZE SHALL BE 14".
 - TRIM TREE BRANCHES TO PROVIDE 5-FOOT CLEARANCE FROM EDGE OF BRIDGE DECK.
 - DISTURBANCE ZONE A IS 140-FOOT LONG BY 5-FOOT WIDE.
 - DISTURBANCE ZONE B IS 120-FOOT LONG BY 5-FOOT WIDE.
 - PROTECT GUARD RAIL AND POSTS.
 - REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.
 - NOT USED.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT AS NEEDED TO ACCOMMODATE CONSTRUCTION OF REW.
 - REPLACE EXISTING METAL GUARD RAILING, POSTS, AND CABLE ANCHOR ASSEMBLIES IN TYPE AND KIND AS NEEDED TO ACCOMMODATE CONSTRUCTION OF REW.
 - MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT AND MANHOLES.

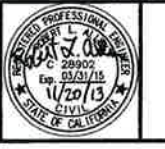
REV. NO.	DATE	DRWN	CHKD	REMARKS
1	11/19/13	LLB	RLA	DCM 63 - LOWER CASING TO AVOID CONDUIT
2	11/14/13	LLB	RLA	DCM 62 - ADD NORTHING AND EASTING TO CASING
3	11/07/13	LLB	RLA	DCM 59 - DELETE 12" GV
4	10/07/13	LLB	RLA	DCM 59 - ADD 12" GV
5	9/18/13	LLB	RLA	RFI 134 - RELOCATE FM TO AVOID AT&T

DESIGNED BY: KS, RLA
 DRAWN BY: RLU
 CHECKED BY: BJC
 DATE: APRIL 2012

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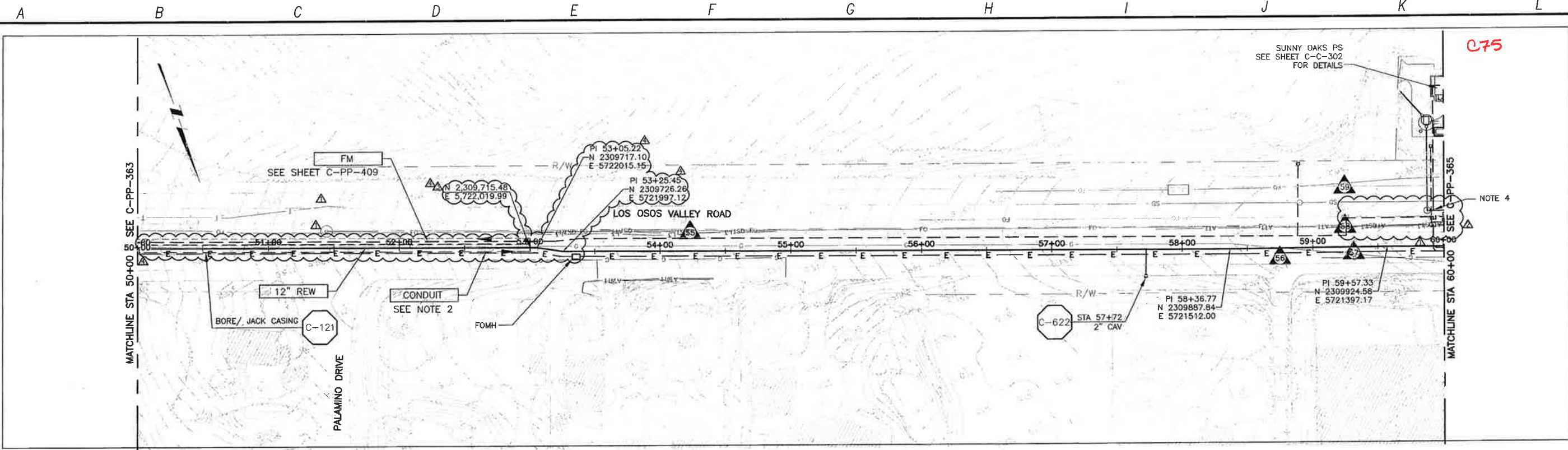
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LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE - REW
 LOS OSOS VALLEY ROAD
 STA 40+00 TO STA 50+00

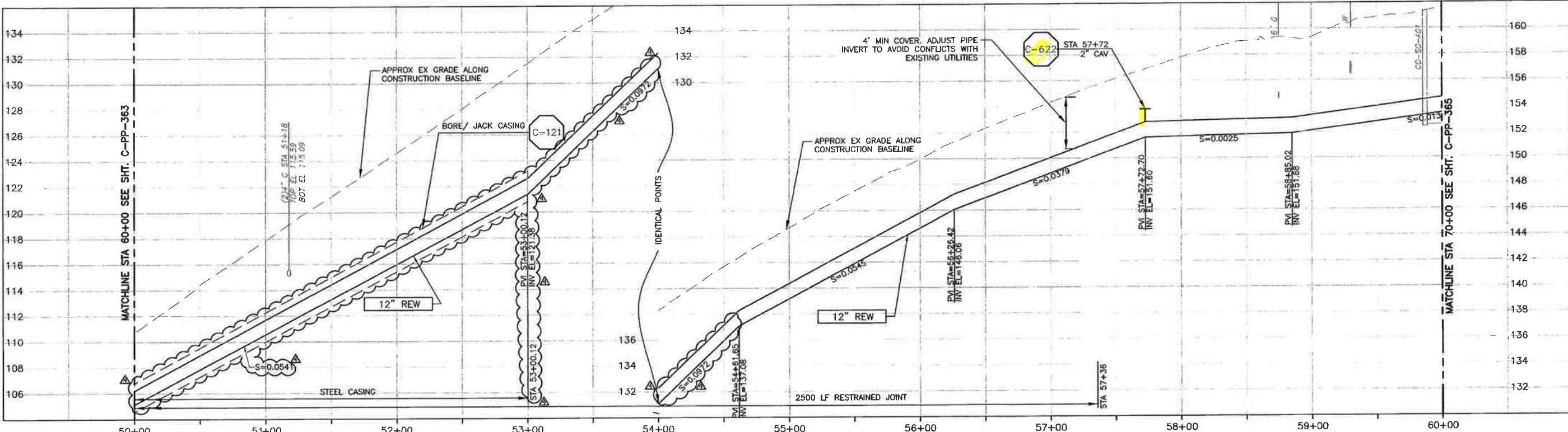
PROJECT NO. 42502-83120
 FILE NAME: C-PP-363
 SHEET NO. C-PP-363.6

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PLAN ON LOS OSOS VALLEY ROAD



PROFILE ON LOS OSOS VALLEY ROAD

- CONSTRUCTION BASELINE STATION
- NOTES
- NOMINAL REW FORCE MAIN PIPE SIZE CALLOUT IS FOR PVC PIPE MATERIAL. IF HDPE IS UTILIZED, NOMINAL PIPE SIZE SHALL BE 14".
 - REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.
 - MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT MANHOLES.

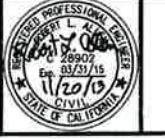
REV. NO.	DATE	DRWN	CHKD	REMARKS
1	11/19/13	LLB	RLA	DCM 63 - LOWER CASING TO AVOID CONDUIT
2	11/14/13	LLB	RLA	DCM 62 - ADD NORTHING AND EASTING TO CASING
3	8/15/13	LLB	RLA	RFI 129 - RELOCATE SS & FM TO AVOID AT&T AND LEGACY FO
4	7/20/12	LLB	RLA	CONFORMED
5	5/29/12	LLB	RLA	ADDENDUM

DESIGNED BY: KS, RLA
 DRAWN BY: RLU
 CHECKED BY: BJC
 DATE: APRIL 2012

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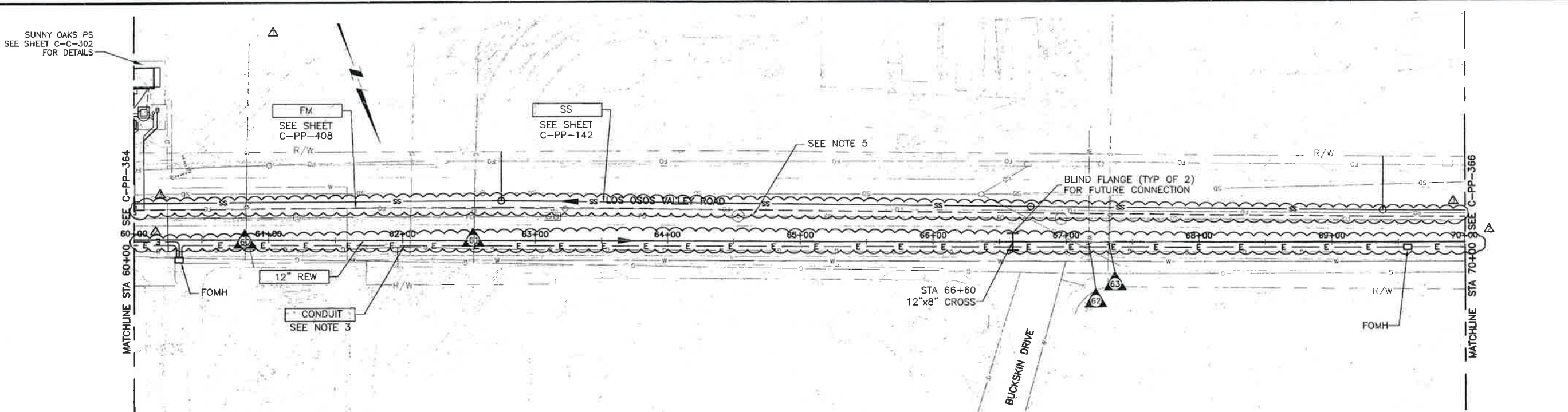
LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE - REW
 LOS OSOS VALLEY ROAD
 STA 50+00 TO STA 60+00

PROJECT NO. 42502-83120
 FILE NAME: C-PP-364
 SHEET NO.
C-PP-364.3

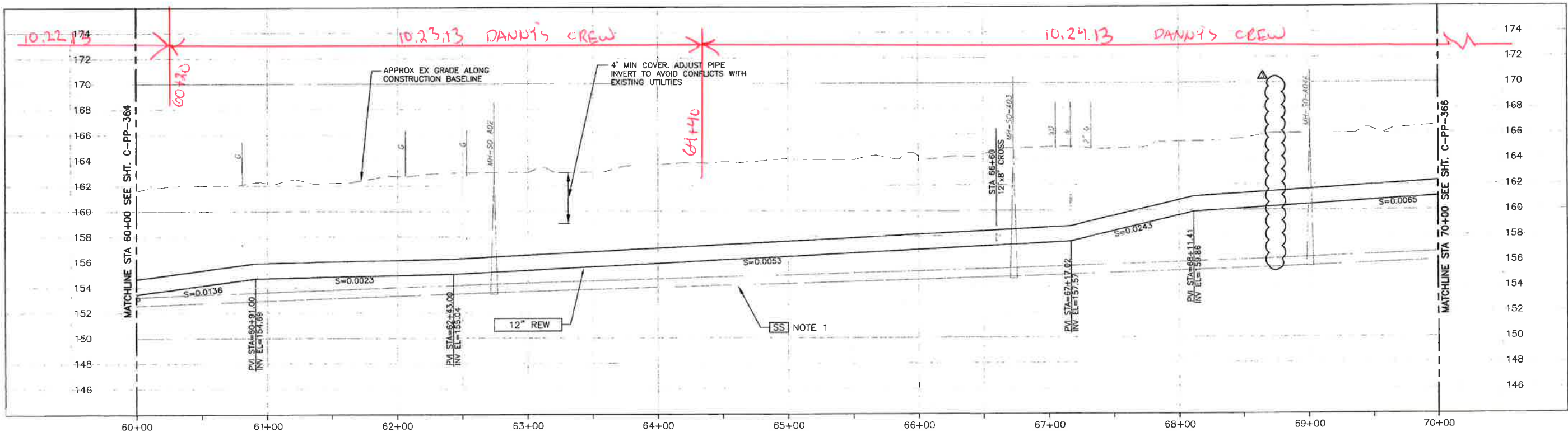
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PLAN ON LOS OSOS VALLEY ROAD



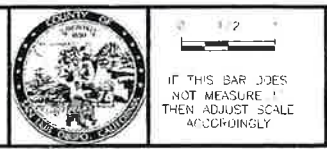
PROFILE ON LOS OSOS VALLEY ROAD

- CONSTRUCTION BASELINE STATION
- NOTES:
- GRAVITY SEWER (SS) PIPE OUT OF SECTION. SS SHOWN FOR REFERENCE ONLY.
 - NOMINAL REW FORCE MAIN PIPE SIZE CALLOUT IS FOR PVC PIPE MATERIAL. IF HDPE IS UTILIZED, NOMINAL PIPE SIZE SHALL BE 14".
 - REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.
 - NOT USED.
 - MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT MANHOLES.

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	8/15/13	LLB	RLA	RFI 129 - RELOCATE SS & FM TO AVOID AT&T AND LEGACY FO
2	1/23/13	LLB	RLA	DCM 22 - SHOW REW LINE WORK
3	7/20/12	LLB	RLA	CONFORMED
4	5/24/12	LLB	RLA	ADDENDUM #2

DESIGNED BY: KS, RLA
 DRAWN BY: RKU
 CHECKED BY: BJC
 DATE: APRIL 2012

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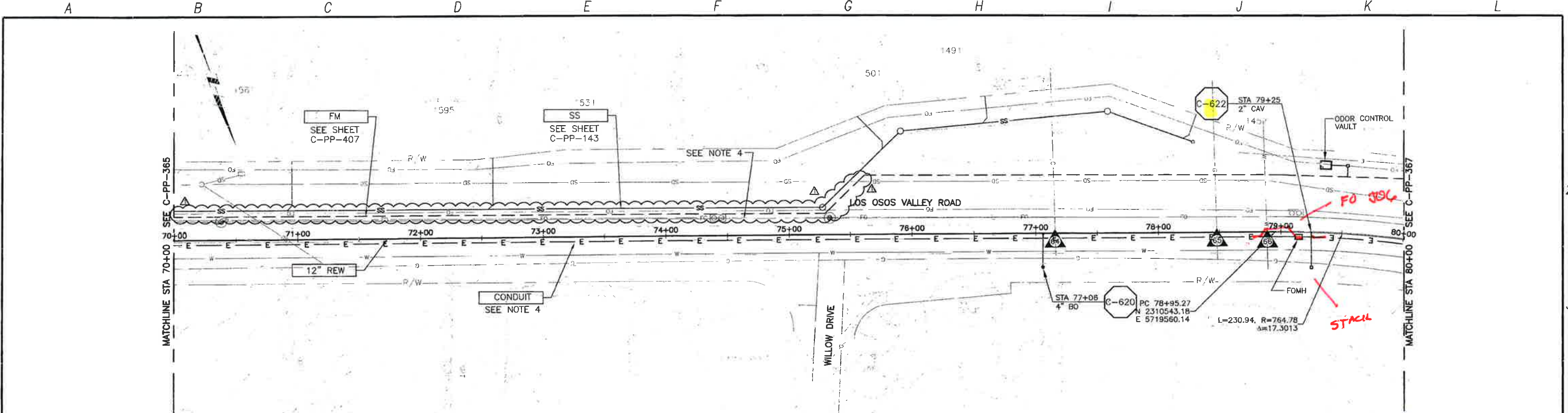


LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE - REW
 LOS OSOS VALLEY ROAD
 STA 60+00 TO STA 70+00

PROJECT NO 42502-63120
 FILE NAME C-PP-365
 SHEET NO
C-PP-365.2

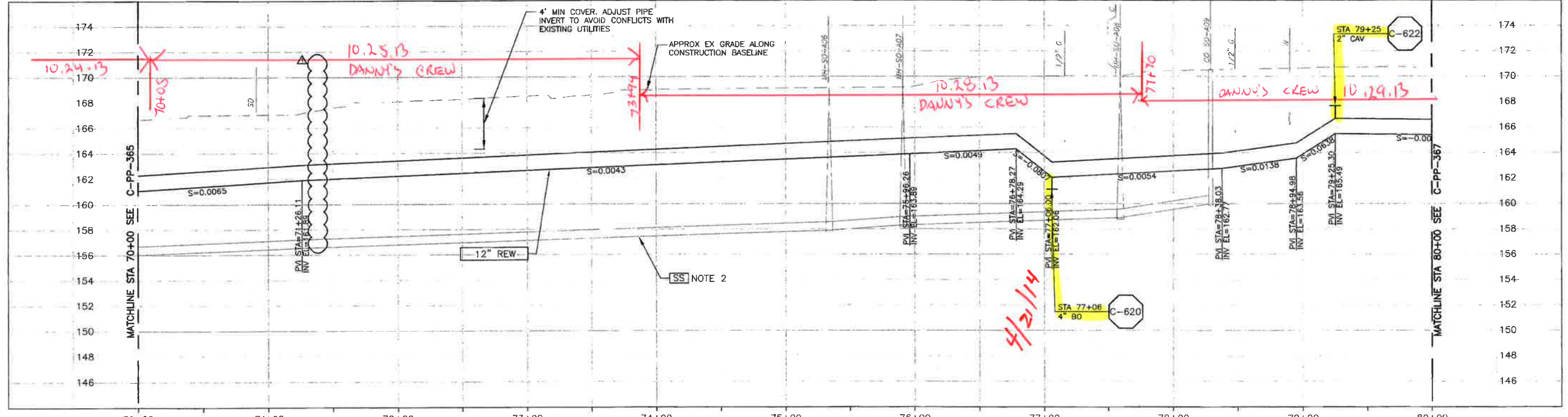
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PLAN ON LOS OSOS VALLEY ROAD

5/15/14



PROFILE ON LOS OSOS VALLEY ROAD

- CONSTRUCTION BASELINE STATION
- CONTRACTOR SHALL TEMPORARILY RELOCATE EXISTING SOIL STOCKPILES, EQUIPMENT AND DEBRIS TO CONSTRUCT SEWER. REPLACE UPON COMPLETION OF WORK.
 - GRAVITY SEWER (SS) PIPE OUT OF SECTION. SS SHOWN FOR REFERENCE ONLY.
 - NOMINAL REW FORCE MAIN PIPE SIZE CALLOUT IS FOR PVC PIPE MATERIAL. IF HDPE IS UTILIZED, NOMINAL PIPE SIZE SHALL BE 14".
 - REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	8/15/13	LLB	RLA	RFI 129 - RELOCATE SS & FM TO AVOID AT&T AND LEGACY FO

DESIGNED BY: KS, RLA
 DRAWN BY: RKU
 CHECKED BY: BJC
 DATE: APRIL 2012

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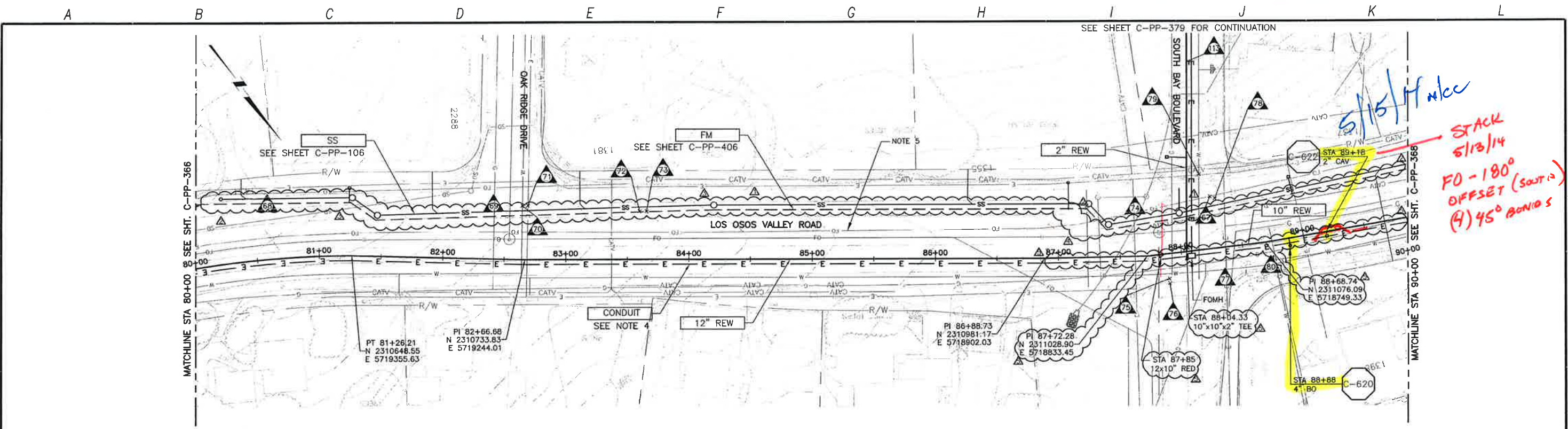


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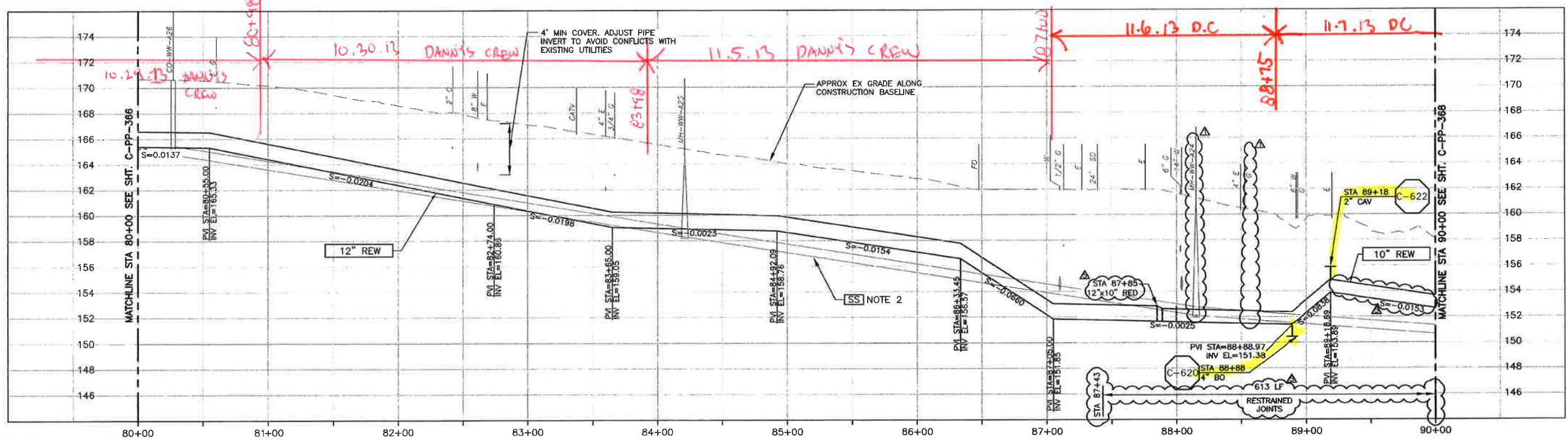
LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE - REW
 LOS OSOS VALLEY ROAD
 STA 70+00 TO STA 80+00

SCALE:
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 VERT: 1"=4'
 PROJECT NO. 42502-83120
 FILE NAME: C-PP-366
 SHEET NO.
C-PP-366.1

Block C 78



PLAN ON LOS OSOS VALLEY ROAD



PROFILE ON LOS OSOS VALLEY ROAD

- CONSTRUCTION BASELINE STATION
- NOTES:
- CONTRACTOR SHALL REPAIR EXISTING TRAFFIC CONTROL SYSTEM, INCLUDING INSTALLING NEW DETECTOR LOOPS, WHERE CONSTRUCTION RESULTS IN DAMAGE TO EXISTING SYSTEM. CONTRACTOR SHALL COORDINATE REPAIRS WITH COUNTY OF SAN LUIS OBISPO.
 - GRAVITY SEWER (SS) PIPE OUT OF SECTION. SS SHOWN FOR REFERENCE ONLY.
 - NOMINAL REW FORCE MAIN PIPE SIZE CALLOUT IS FOR PVC PIPE MATERIAL. IF HDPE IS UTILIZED, NOMINAL PIPE SIZE FOR 12" PVC SHALL BE 14" HDPE, FOR 10" PVC SHALL BE 12" HDPE.
 - REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.
 - MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT AND MANHOLES.

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REV. NO.	DATE	DRWN	CHKD	REMARKS
10/28/13	LLB	RLA	RFI 145	RELOCATE REW
7/26/13	LLB	RLA	RFI 121	RELOCATE SS & FM TO AVOID AT&T
7/26/13	LLB	RLA	RFI 119 & 120	RELOCATE SS & FM TO AVOID SD & GAS
7/26/13	LLB	RLA	RFI 108 & 109	RELOCATE SS & FM TO AVOID SD & AT&T
5/29/13	LLB	RLA	RFI 100	RELOCATE SS & FM TO AVOID SDHVS

DESIGNED BY: KS, RLA
 DRAWN BY: RLU
 CHECKED BY: BJC
 DATE: APRIL 2012

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 Sacramento, CA 95833
 Tel: (916) 557-9900

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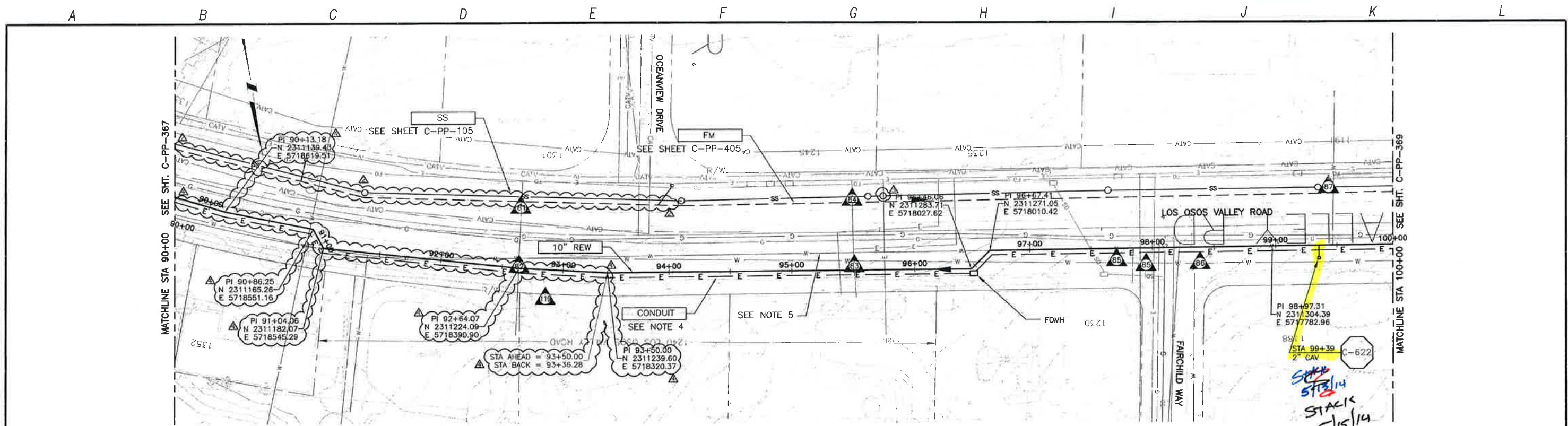
PROFESSIONAL SEAL
 L. ALTA
 CIVIL ENGINEER
 STATE OF CALIFORNIA
 No. 28902
 Exp. 03/31/15
 10/26/13

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 421652 2ND DASH
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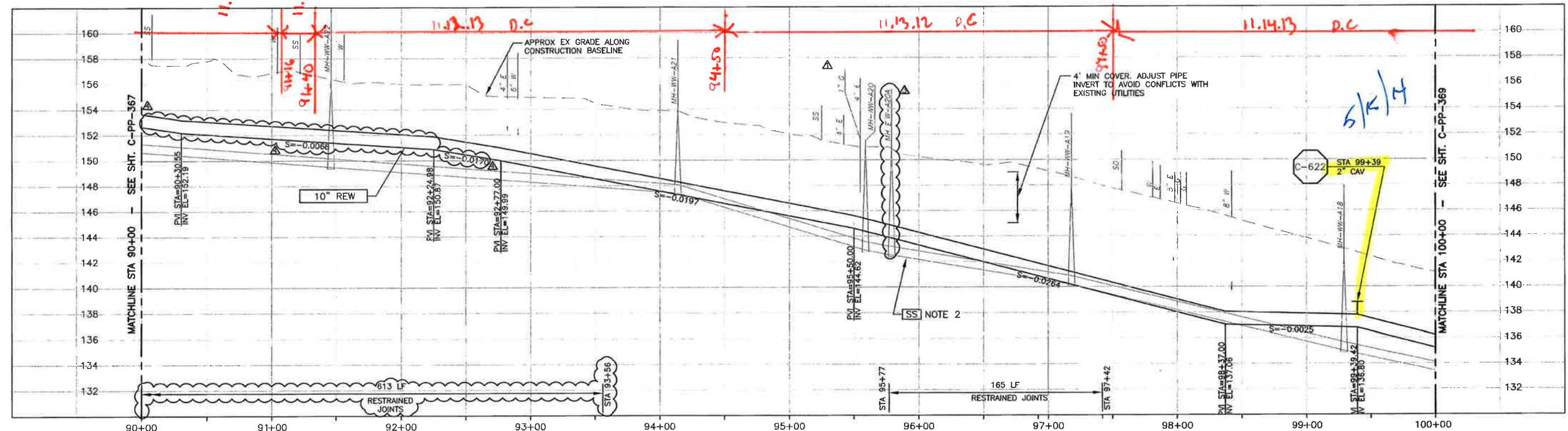
LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE - REW
 LOS OSOS VALLEY ROAD
 STA 80+00 TO STA 90+00

PROJECT NO. 42502-83120
 FILE NAME: C-PP-367
 SHEET NO.
 C-PP-367.4

SCALE:
 HORZ: 1"=40'
 VERT: 1"=4'



PLAN ON LOS OSOS VALLEY ROAD



PROFILE ON LOS OSOS VALLEY ROAD

- CONSTRUCTION BASELINE STATION
- NOTES:
- CONTRACTOR SHALL NOTE THAT MAPPING PREDATES DEVELOPMENT AT 1240 LOS OSOS VALLEY ROAD. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS.
 - GRAVITY SEWER (SS) PIPE OUT OF SECTION. SS SHOWN FOR REFERENCE ONLY.
 - NOMINAL REW FORCE MAIN PIPE SIZE CALLOUT IS FOR PVC PIPE MATERIAL. IF HDPE IS UTILIZED, NOMINAL PIPE SIZE SHALL BE 12".
 - REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.
 - CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF WATER LINE BEFORE INSTALLING REW PIPE. PROVIDE MIN. HORIZONTAL AND VERTICAL CLEARANCE.

REV. NO.	DATE	DRWN	CHKD	REMARKS
10/28/13	LLB	RLA		RFI 145 - RELOCATE REW
7/01/13	LLB	RLA		RFI 111 - RELOCATE MH-A20A TO ALLOW CLEARANCE FROM MH-A20
7/01/13	LLB	RLA		RFI 108 & 109 - RELOCATE SS & FM TO AVOID SD & AT&T
7/2012	LLB	RLA		CONFORMED
5/16/12	LLB	RLA		ADDENDUM #1

DESIGNED BY: KS, RLA
 DRAWN BY: RLU
 CHECKED BY: BJC
 DATE: APRIL 2012

CDM Smith
 2295 Gateway Oaks Drive, Suite 240
 Sacramento, CA 95833
 Tel: (916) 567-9900

0 1/2 1
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REGISTERED PROFESSIONAL ENGINEER
 CIVIL
 STATE OF CALIFORNIA
 No. 63215
 Exp. 03/31/15

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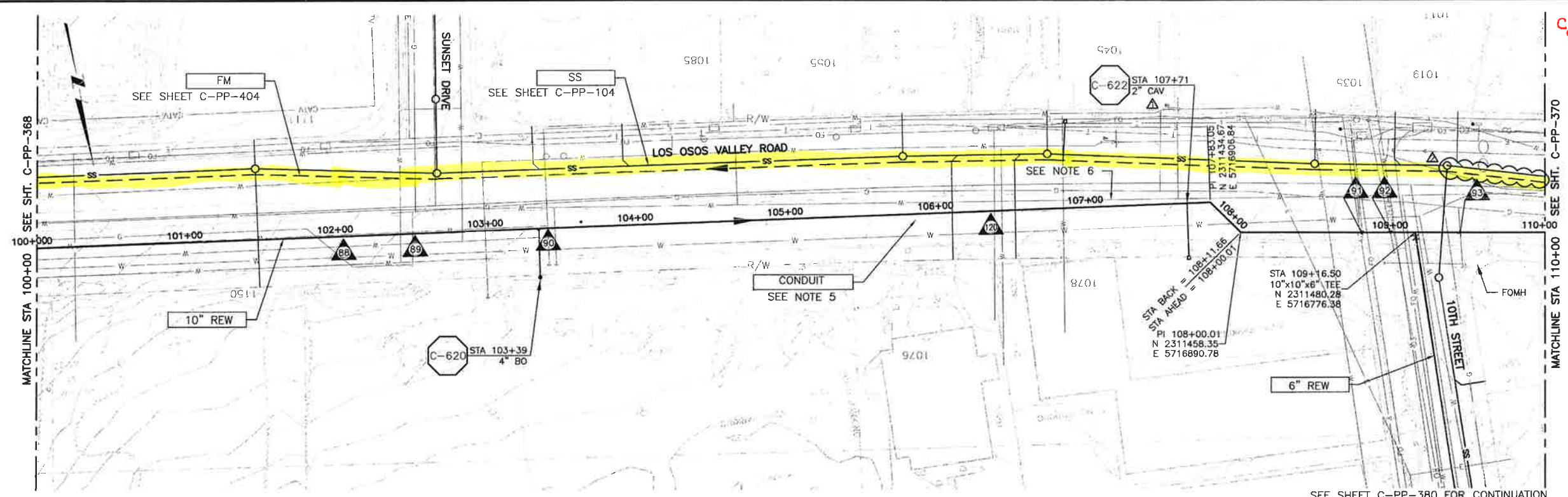
LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE - REW
 LOS OSOS VALLEY ROAD
 STA 90+00 TO STA 100+00

PROJECT NO. 42502-83120
 FILE NAME: C-PP-368
 SHEET NO.
C-PP-368.2

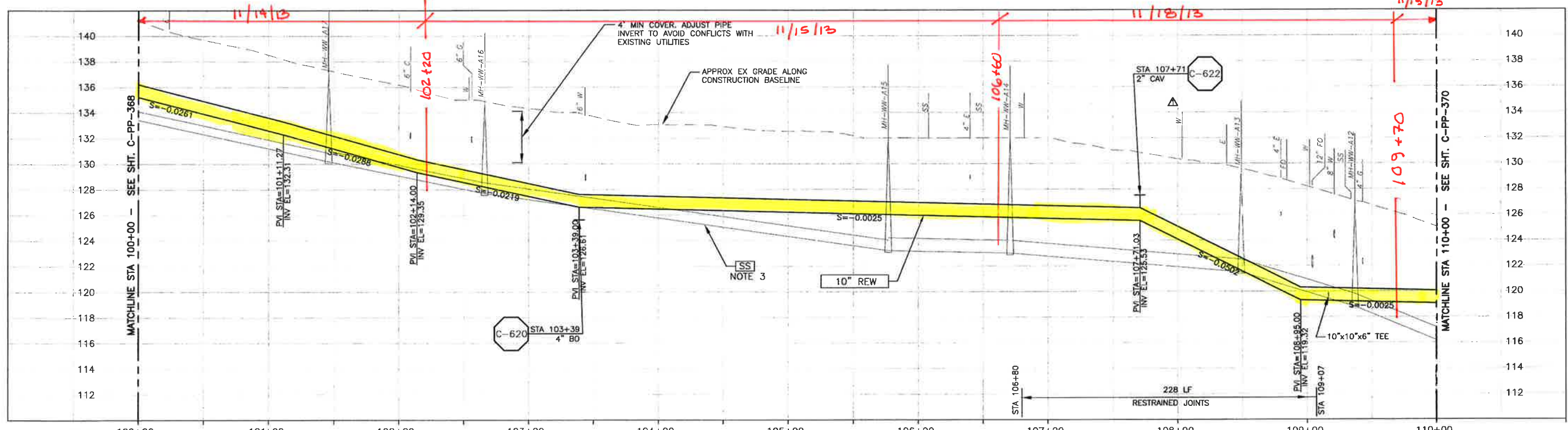
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A B C D E F G H I J K L



PLAN ON LOS OSOS VALLEY ROAD



PROFILE ON LOS OSOS VALLEY ROAD

- NOTES:**
- CONTRACTOR SHALL REPAIR EXISTING TRAFFIC CONTROL SYSTEM, INCLUDING INSTALLING NEW DETECTOR LOOPS, WHERE CONSTRUCTION RESULTS IN DAMAGE TO EXISTING SYSTEM. CONTRACTOR SHALL COORDINATE REPAIRS WITH COUNTY OF SAN LUIS OBISPO.
 - NOT ALL MONITORING WELLS ARE SHOWN.
 - GRAVITY SEWER (SS) PIPE OUT OF SECTION. SS SHOWN FOR REFERENCE ONLY.
 - NOMINAL REW FORCE MAIN PIPE SIZE CALLOUT IS FOR PVC PIPE MATERIAL. IF HDPE IS UTILIZED, NOMINAL PIPE SIZE SHALL BE 12".
 - REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.
 - CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF WATER LINE BEFORE INSTALLING REW PIPE. PROVIDE MIN. HORIZONTAL AND VERTICAL CLEARANCE.

REV. NO.	DATE	DRWN	CHKD	REMARKS
1/09/13	LLB	RLA		MEMO 139 - REFLECTED PREVIOUS CHANGES TO THE SS AND FM
7/2012	LLB	RLA		CONFORMED
5/18/12	LLB	RLA		ADDENDUM #1

DESIGNED BY: KS, RLA
 DRAWN BY: RKL
 CHECKED BY: BJC
 DATE: APRIL 2012

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 Sacramento, CA 95833
 Tel: (916) 567-9900



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LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE - REW
 LOS OSOS VALLEY ROAD
 STA 100+00 TO STA 110+00

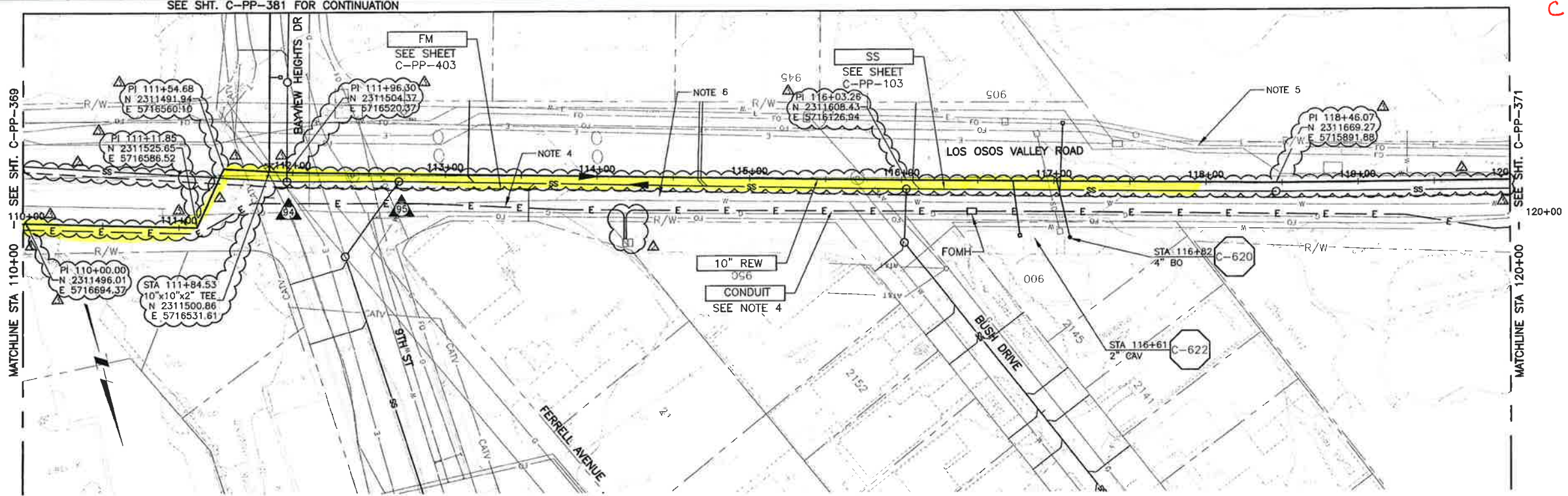
PROJECT NO. 42502-83120
 FILE NAME: C-PP-369
 SHEET NO. C-PP-369.1

SCALE:
 HORZ: 1"=40'
 VERT: 1"=4'

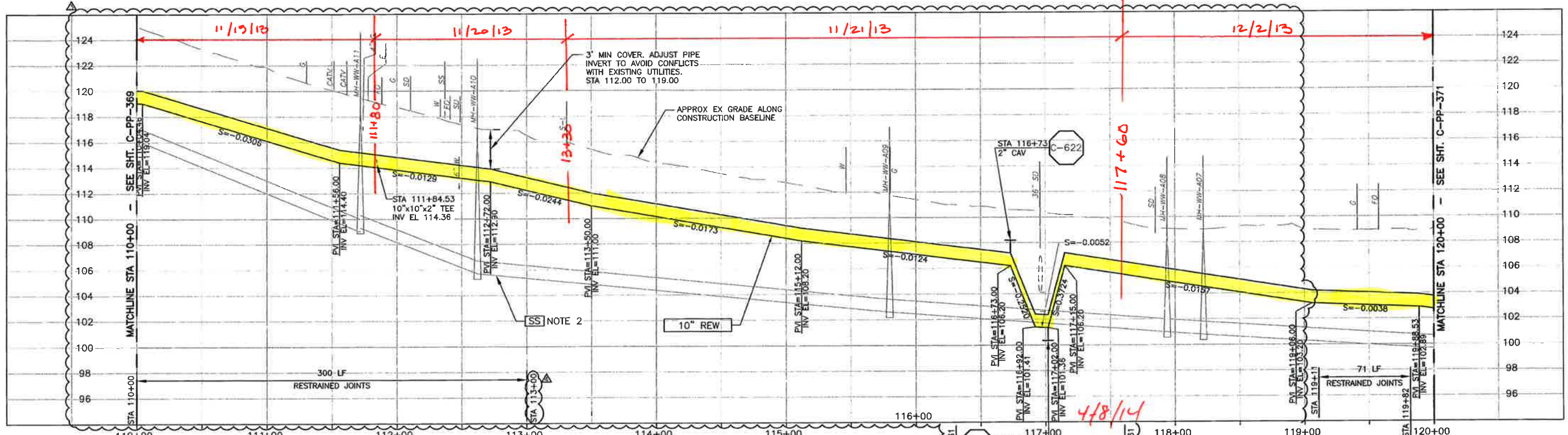
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A B C D E F G H I J K L

CBI BLOCK



PLAN ON LOS OSOS VALLEY ROAD



PROFILE ON LOS OSOS VALLEY ROAD

CONSTRUCTION
BASELINE
STATION

NOTES:

- CONTRACTOR SHALL REPAIR EXISTING TRAFFIC CONTROL SYSTEM, INCLUDING INSTALLING NEW DETECTOR LOOPS, WHERE CONSTRUCTION RESULTS IN DAMAGE TO EXISTING SYSTEM. CONTRACTOR SHALL COORDINATE REPAIRS WITH COUNTY OF SAN LUIS OBISPO.
- GRAVITY SEWER (SS) PIPE OUT OF SECTION. SS SHOWN FOR REFERENCE ONLY.
- NOMINAL R/W FORCE MAIN PIPE SIZE CALLOUT IS FOR PVC PIPE MATERIAL. IF HDPE IS UTILIZED, NOMINAL PIPE SIZE SHALL BE 12".
- REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE. MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT AND MANHOLES.
- CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF WATER LINE BEFORE INSTALLING R/W PIPE. PROVIDE MIN. HORIZONTAL AND VERTICAL CLEARANCE.

REV. NO.	DATE	DRWN	CHKD	REMARKS
11/25/13	LLB	RLA	RFI 148 - CORRECT STA LIMITS OF RESTRAINED JTS	
11/21/13	LLB	RLA	RFI 148 - RELOCATE R/W TO AVOID W AND G	
12/20/12	LLB	RLA	MEMO 115 - CONDUIT ROUTING/ ALSO REFLECTED PREVIOUS FM, R/W & SS CHANGES	
7/20/12	LLB	RLA	CONFORMED	
5/18/12	LLB	RLA	ADDENDUM #1	

DESIGNED BY: KS, RLA
 DRAWN BY: RKU
 CHECKED BY: BUC
 DATE: APRIL 2012

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 2295 Gateway Oaks Drive, Suite 240
 Sacramento, CA 95833
 Tel: (916) 567-9900



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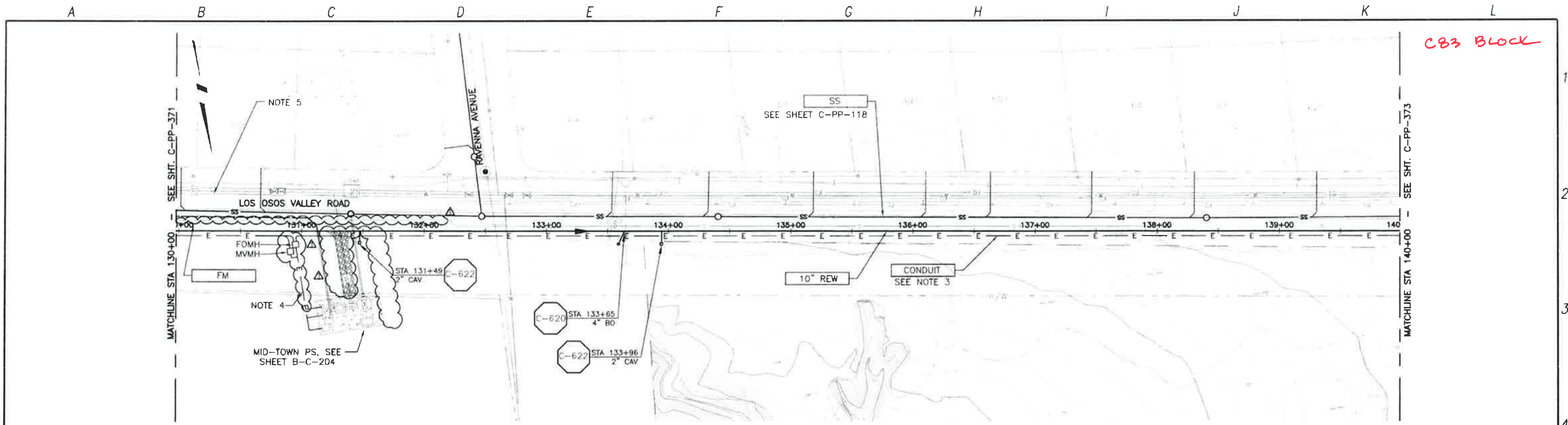
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LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE - R/W
 LOS OSOS VALLEY ROAD
 STA 110+00 TO STA 120+00

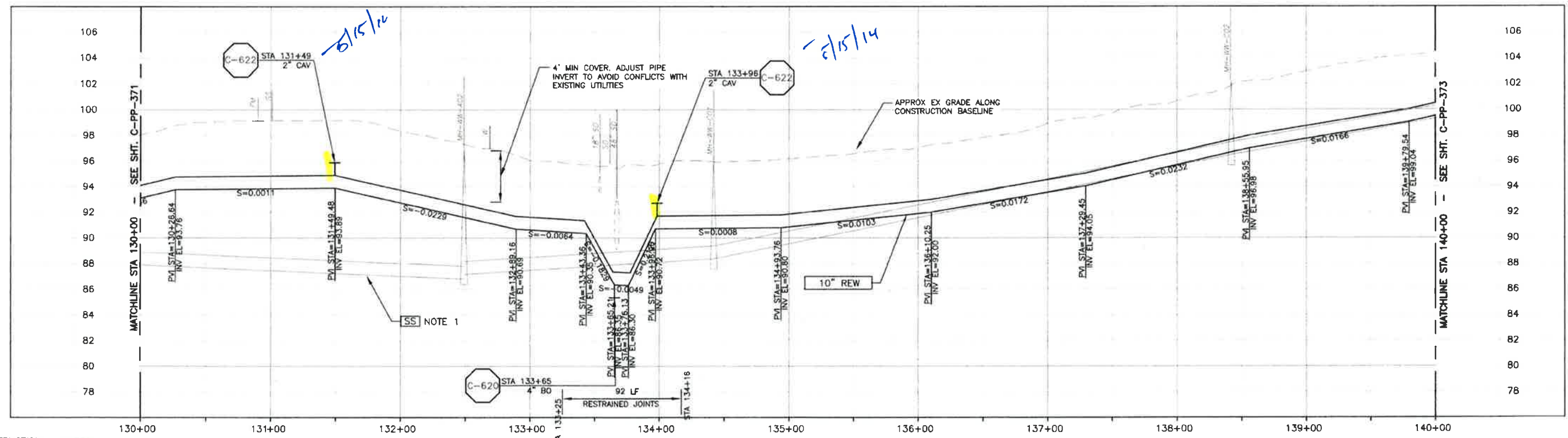
PROJECT NO. 42502-83120
 FILE NAME: C-PP-370
 SHEET NO. C-PP-370.3

SCALE:
 HORZ: 1"=40'
 VERT: 1"=4'

CB3 BLOCK



PLAN ON LOS OSOS VALLEY ROAD



PROFILE ON LOS OSOS VALLEY ROAD

CONSTRUCTION BASELINE STATION

- NOTES:**
- GRAVITY SEWER (SS) PIPE OUT OF SECTION. SS SHOWN FOR REFERENCE ONLY.
 - NOMINAL REW FORCE MAIN PIPE SIZE CALLOUT IS FOR PVC PIPE MATERIAL. IF HDPE IS UTILIZED, NOMINAL PIPE SIZE SHALL BE 12".

- REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.
- TERMINATE CONDUITS APPROXIMATELY 60 FT NORTH OF LOS OSOS VALLEY ROAD.
- MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT AND MANHOLES.

SCALE:
HORZ: 1"=40'
VERT: 1"=4'

REV NO.	DATE	DRWN	CHKD	REMARKS
1	5/28/12	LLB	RLA	ADDENDUM

DESIGNED BY: KS, RLA
DRAWN BY: RKU
CHECKED BY: BJC
DATE: APRIL 2012

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Sacramento, CA 95833
Tel: (916) 567-9900



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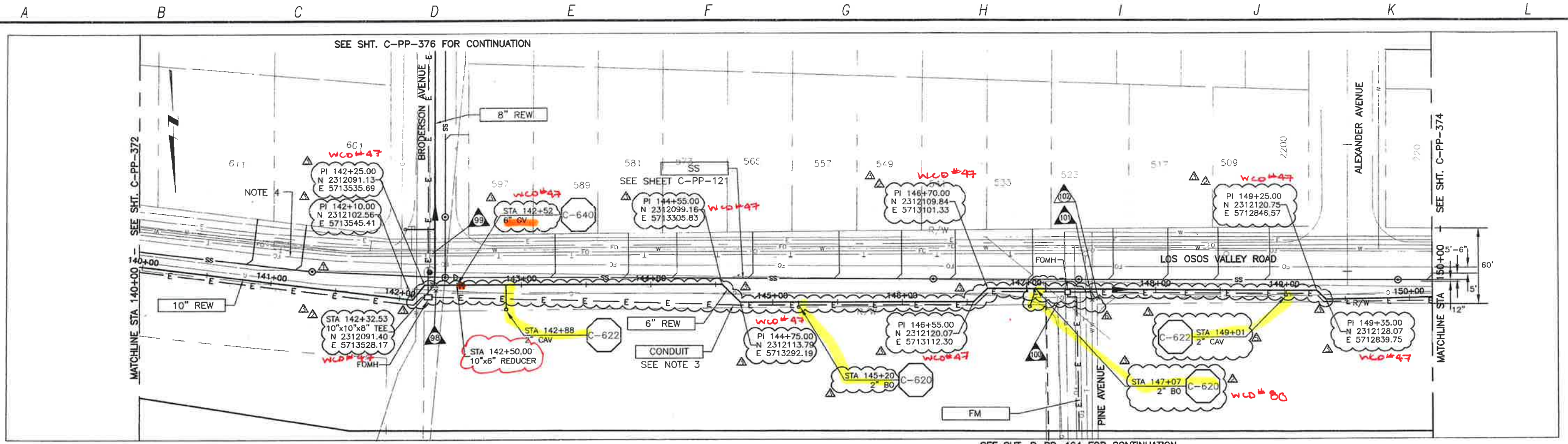
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LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE - REW
LOS OSOS VALLEY ROAD
STA 130+00 TO STA 140+00

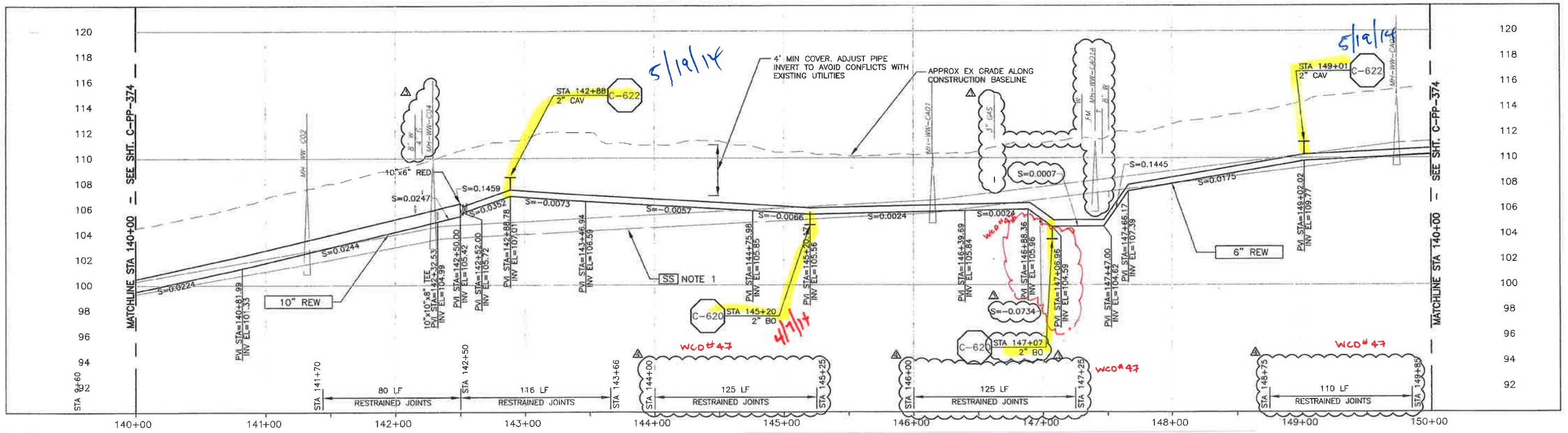
PROJECT NO 42502-83120
FILE NAME C-PP-372
SHEET NO.
C-PP-372

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PLAN ON LOS OSOS VALLEY ROAD



PROFILE ON LOS OSOS VALLEY ROAD

- CONSTRUCTION BASELINE STATION
- NOTES:
- GRAVITY SEWER (SS) PIPE OUT OF SECTION. SS SHOWN FOR REFERENCE ONLY.
 - NOMINAL REW FORCE MAIN PIPE SIZE CALLOUT IS FOR PVC PIPE MATERIAL. IF HDPE IS UTILIZED FOR 10" PVC, NOMINAL PIPE SIZE SHALL BE 12".
 - REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.
 - MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT AND MANHOLES.

REV NO	DATE	DRWN	CHKD	REMARKS
5/23/13	LLB	RLA	DCM	39 - RELOCATE BLOW OFF DISCHARGE
2/12/13	LLB	RLA	MEMO #111	- CORRECT CAV STATION IN PLAN
1/29/13	LLB	RLA	MEMO #111	- ADD JOINT RESTRAINTS
1/22/13	LLB	RLA	MEMO #111	- RELOCATE REW, E, PUT SS BACK TO ORIGINAL LOCATION
11/15/12	LLB	RLA	MEMO #111	- RELOCATE SS, REW, E

DESIGNED BY: KS, RLA
 DRAWN BY: RKU
 CHECKED BY: BJC
 DATE: APRIL 2012

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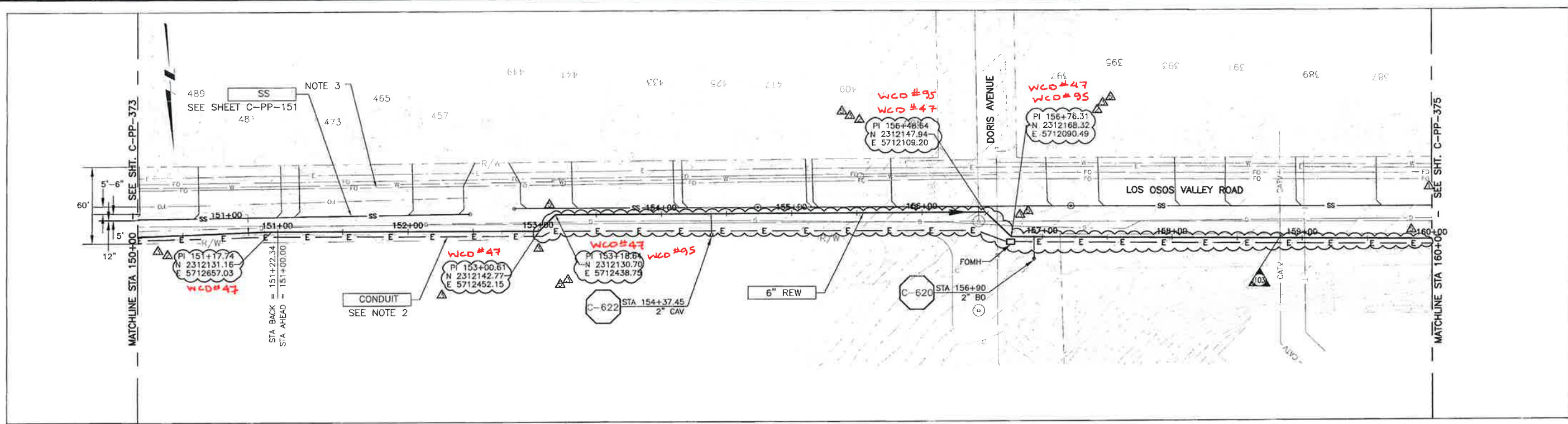
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LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE - REW
 LOS OSOS VALLEY ROAD
 STA 140+00 TO STA 150+00

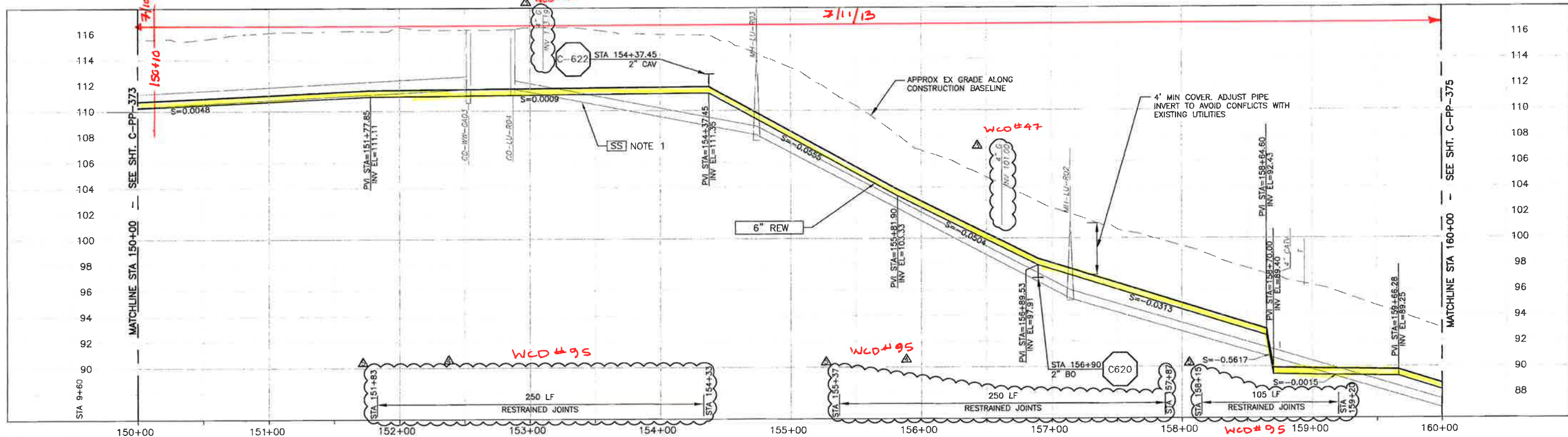
PROJECT No. 42502-83120
 FILE NAME: C-PP-373
 SHEET NO. C-PP-373.4

SCALE:
 HORZ: 1"=40'
 VERT: 1"=4'

A B C D E F G H I J K L



PLAN ON LOS OSOS VALLEY ROAD



PROFILE ON LOS OSOS VALLEY ROAD

- CONSTRUCTION BASELINE STATION
- NOTES:
- GRAVITY SEWER (SS) PIPE OUT OF SECTION. SS SHOWN FOR REFERENCE ONLY.
 - REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.
 - MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT AND MANHOLES.

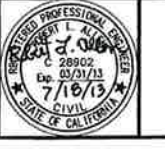
REV. NO.	DATE	DRWN	CHKD	REMARKS
7/17/13	LLB	RLA		RFI 113 - REW & CONDUIT REALIGNMENT WCD#95
1/29/13	LLB	RLA		MEMO #111 - ADD JOINT RESTRAIN WCD#47
1/22/13	LLB	RLA		MEMO #111 - RELOCATE REW, E, PUT SS BACK TO ORIGINAL LOCATION
11/15/12	LLB	RLA		MEMO #111 - RELOCATE SS, REW, E
7/2012	LLB	RLA		CONFORMED

DESIGNED BY: KS, RLA
 DRAWN BY: RJKU
 CHECKED BY: BJC
 DATE: APRIL 2012

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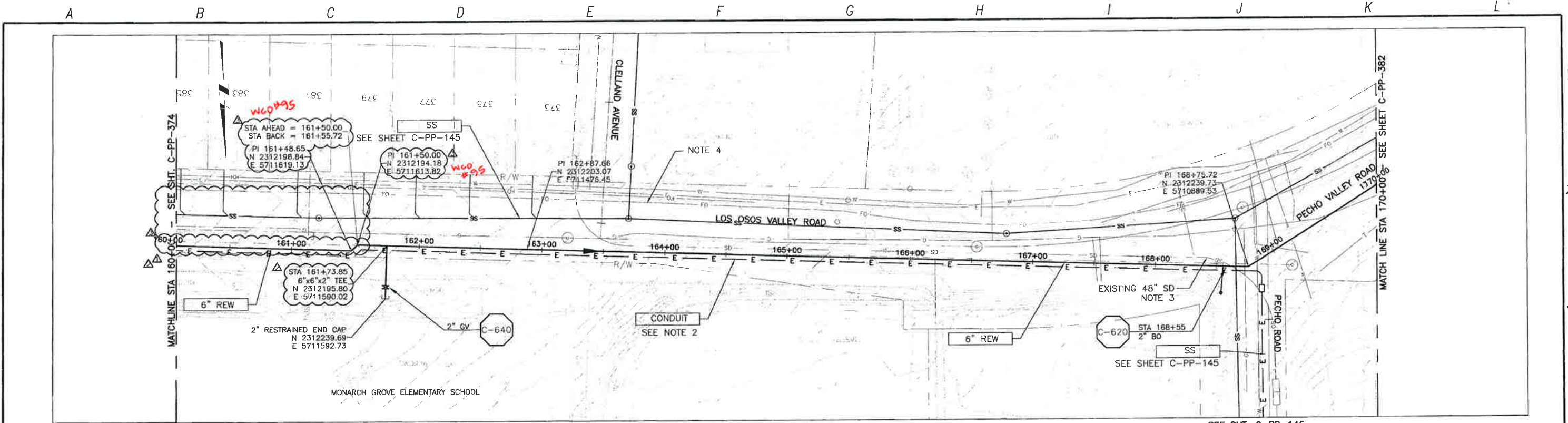
LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE - REW
 LOS OSOS VALLEY ROAD
 STA 150+00 TO STA 160+00

SCALE:
 HORZ: 1"=40'
 VERT: 1"=10'

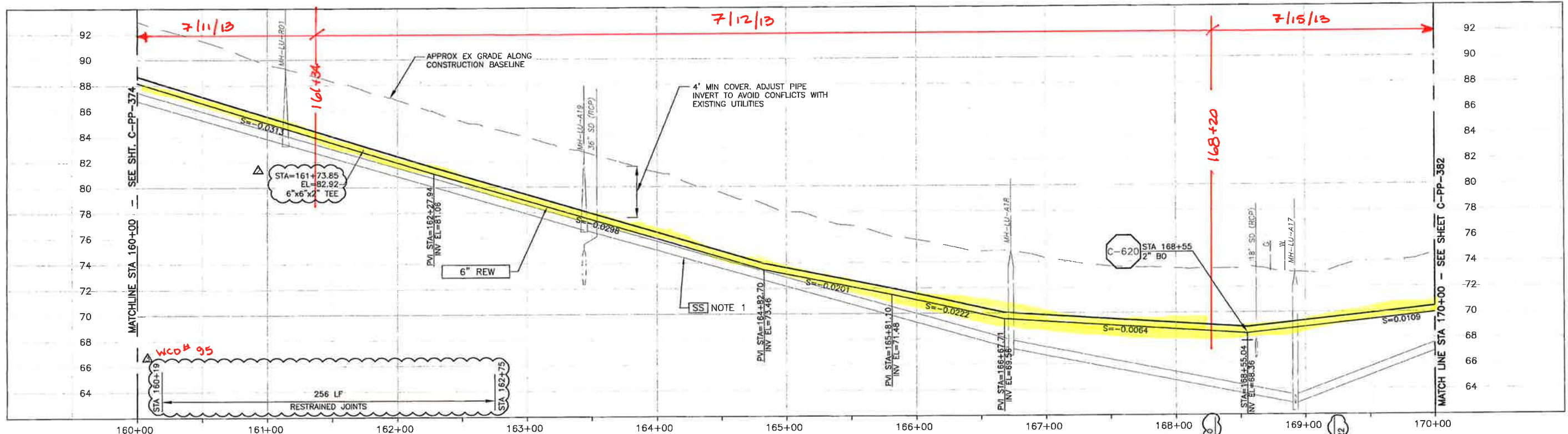
PROJECT NO. 42502-83120
 FILE NAME: C-PP-374
 SHEET NO.
C-PP-374.3

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PLAN ON LOS OSOS VALLEY ROAD



PROFILE ON LOS OSOS VALLEY ROAD

- CONSTRUCTION BASELINE STATION
- NOTES:
- GRAVITY SEWER (SS) PIPE OUT OF SECTION. SS SHOWN FOR REFERENCE ONLY.
 - REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.
 - CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF EXISTING STORM DRAIN FACILITIES PRIOR TO BEGINNING WORK.
 - MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT AND MANHOLES.

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	7/17/13	LLB	RLA	RFI 113 - REW & CONDUIT REALIGNMENT WCO #95
2	7/22/13	LLB	RLA	MEMO #111 - RELOCATE REW, E, PUT SS BACK TO ORIGINAL LOCATION
3	11/15/12	LLB	RLA	RELOCATE SS, RW, E

DESIGNED BY: KS, RLA
 DRAWN BY: RKU
 CHECKED BY: BJC
 DATE: APRIL 2012

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 Sacramento, CA 95833
 Tel: (916) 567-9900



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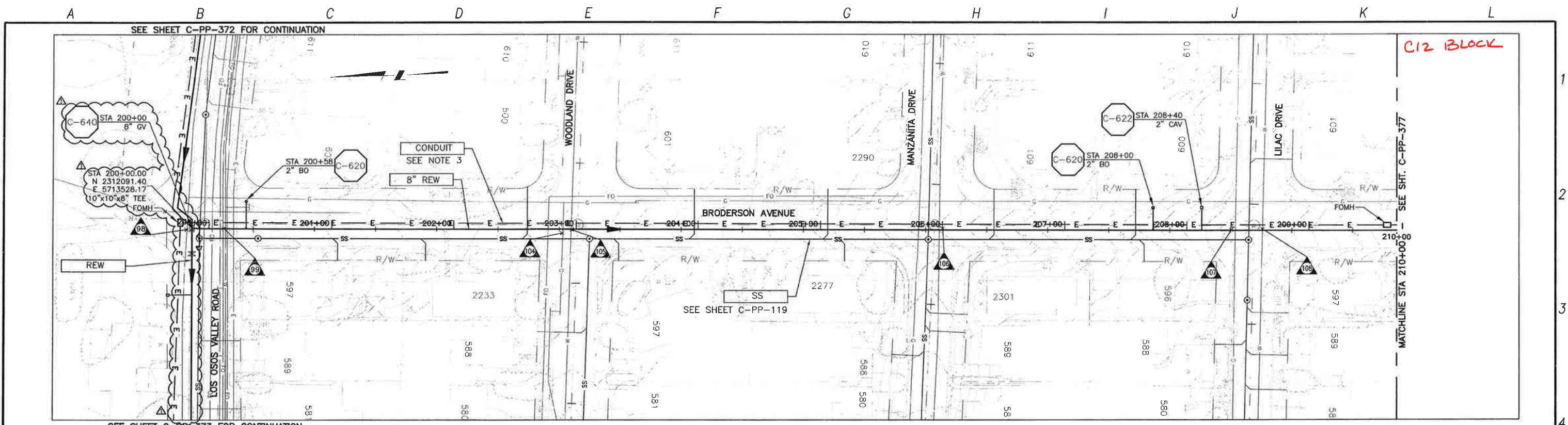
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 1-800-642-2444

LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE - REW
 LOS OSOS VALLEY ROAD
 STA 160+00 TO STA 170+00

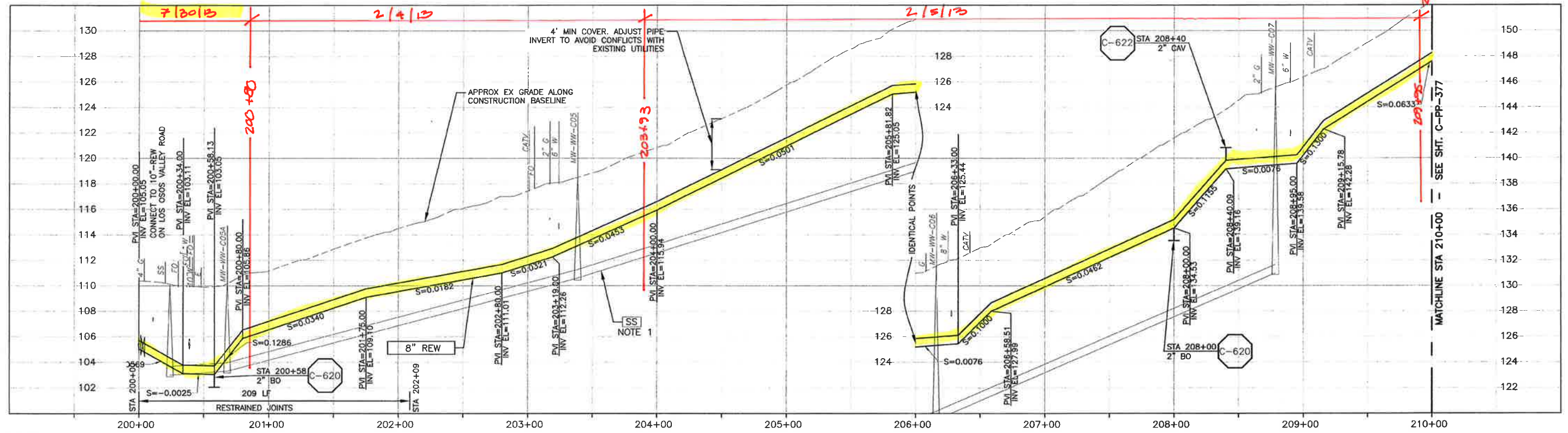
PROJECT NO. 42502-83120
 FILE NAME: C-PP-375
 SHEET NO. C-PP-375.2

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

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 2295 Gateway Oaks Drive, Suite 240
 Sacramento, CA 95833
 Tel: (916) 567-9900
 Fax: (916) 567-9901
 www.cdm-smith.com
 PROJECT NO. 42502-83120
 FILE NAME: C-PP-376
 SHEET NO. C-PP-376.1



PLAN ON BRODERSON AVENUE



PROFILE ON BRODERSON AVENUE

- NOTES:
- GRAVITY SEWER (SS) PIPE OUT OF SECTION. SS SHOWN FOR REFERENCE ONLY.
 - NOMINAL REW FORCE MAIN PIPE SIZE CALLOUT IS FOR PVC PIPE MATERIAL. IF HDPE IS UTILIZED, NOMINAL PIPE SIZE SHALL BE 10".
 - REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.

DESIGNED BY:	KS, RLA
DRAWN BY:	RKU
CHECKED BY:	BJC
DATE:	APRIL 2012

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 Sacramento, CA 95833
 Tel: (916) 567-9900



0 1/2 1
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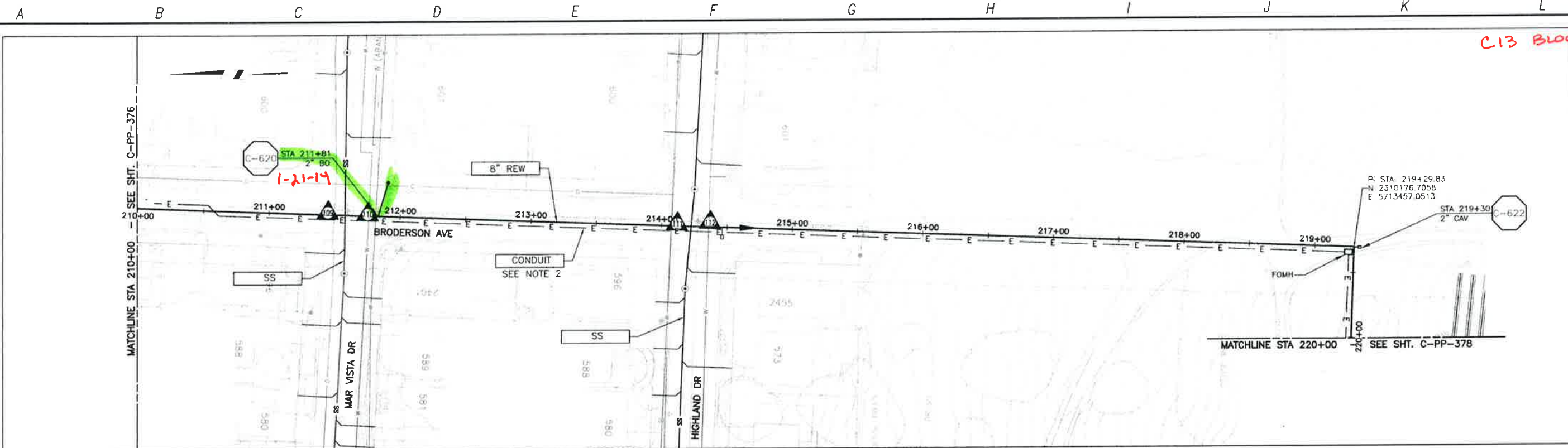
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LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE - REW
 BRODERSON AVENUE
 STA 200+00 TO STA 210+00

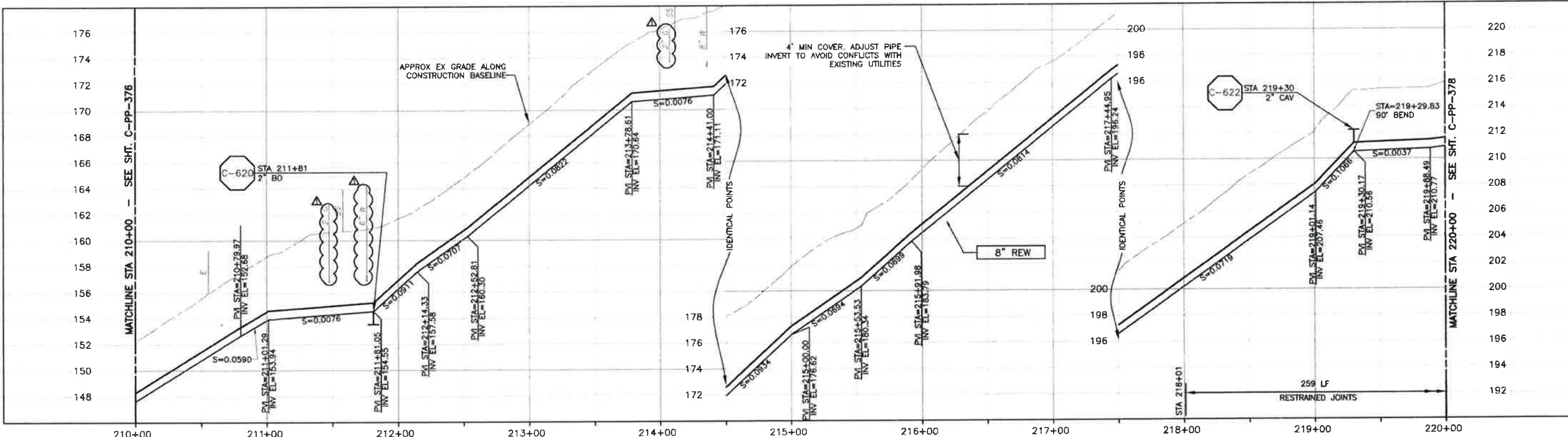
PROJECT NO.	42502-83120
FILE NAME	C-PP-376
SHEET NO.	C-PP-376.1

SCALE:
 HORZ: 1"=40'
 VERT: 1"=4'

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PLAN ON BRODERSON AVE

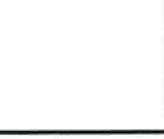
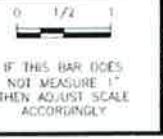


PROFILE ON BRODERSON AVE

- CONSTRUCTION BASELINE STATION**
- NOTES**
- NOMINAL REW FORCE MAIN PIPE SIZE CALLOUT IS FOR PVC PIPE MATERIAL. IF HDPE IS UTILIZED, NOMINAL PIPE SIZE SHALL BE 10".
 - REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.

REV. NO.	DATE	DRWN	CHKD	REMARKS
5/16/12	LLB	RLA		ADDENDUM #1

DESIGNED BY: KS, RLA
 DRAWN BY: RLU
 CHECKED BY: BJC
 DATE: APRIL 2012

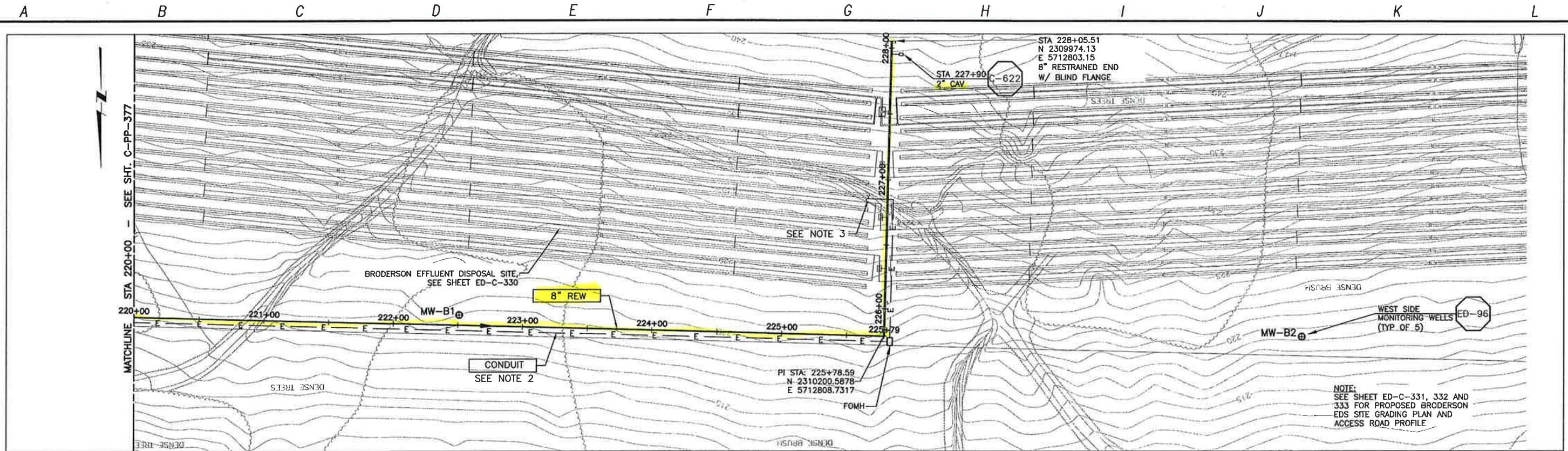


LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE - REW
 BRODERSON AVENUE
 STA 210+00 TO STA 220+00

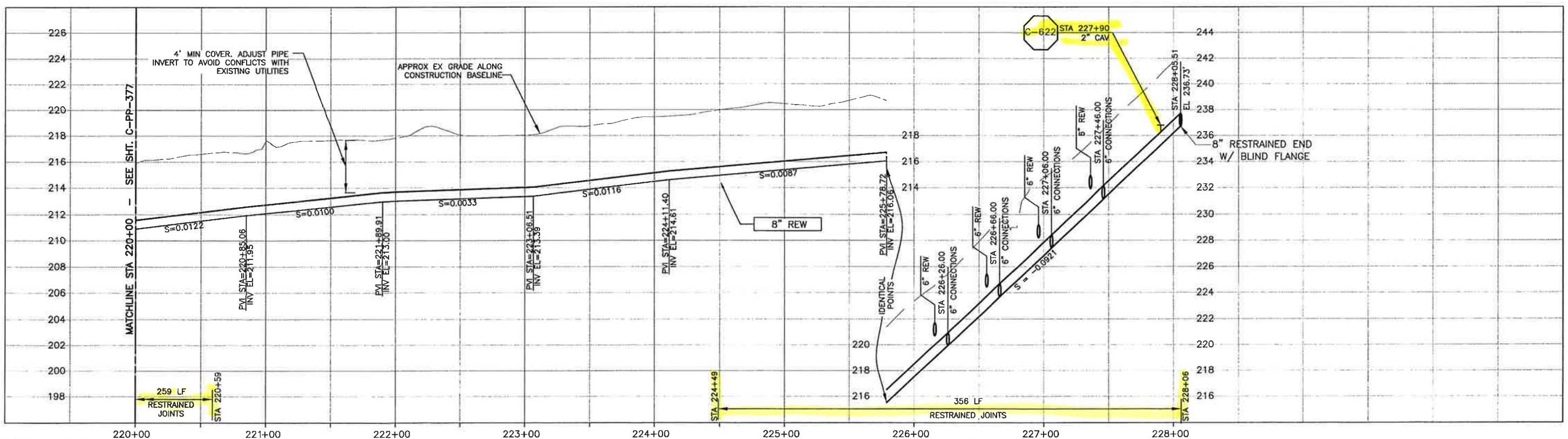
PROJECT NO. 42502-83120
 FILE NAME: C-PP-377
 SHEET NO.
C-PP-377

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

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PLAN ON BRODERSON EDS SITE



PROFILE ON BRODERSON EDS SITE

CONSTRUCTION BASELINE STATION

NOTES

- NOMINAL REW FORCE MAIN PIPE SIZE CALLOUT IS FOR PVC PIPE MATERIAL. IF HDPE IS UTILIZED, NOMINAL PIPE SIZE SHALL BE 10".
- REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.

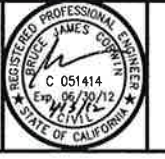
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: KS, RLA
 DRAWN BY: RLU
 CHECKED BY: BJC
 DATE: APRIL 2012

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 2295 Gateway Oaks Drive, Suite 240
 Sacramento, CA 95833
 Tel: (916) 567-9900



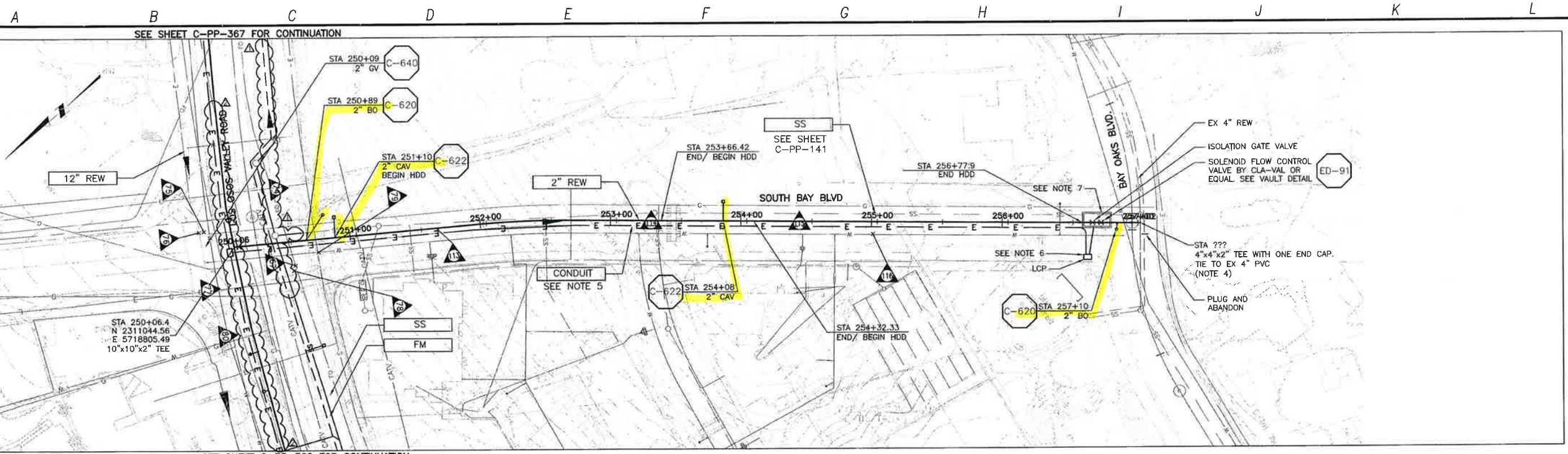
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 IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY



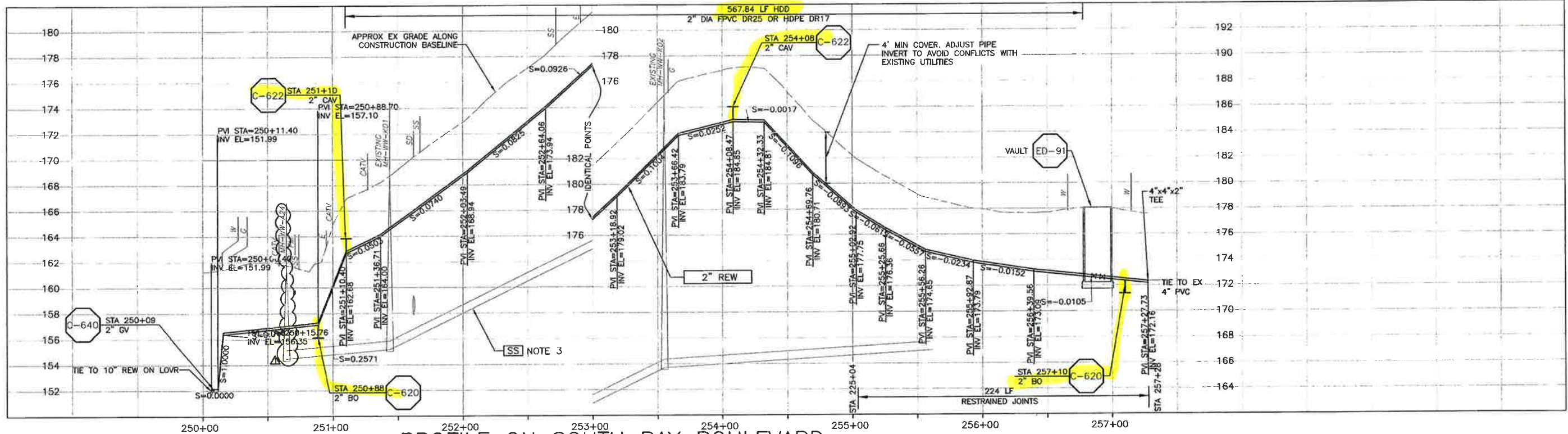
LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE - REW
 BRODERSON AVENUE
 STA 220+00 TO STA 228+06

PROJECT NO. 42502-83120
 FILE NAME: C-PP-378
 SHEET NO.
C-PP-378

SCALE:
 HORZ: 1"=40'
 VERT: 1"=4'



PLAN ON SOUTH BAY BOULEVARD AND BAY OAKS DRIVE



PROFILE ON SOUTH BAY BOULEVARD

- CONSTRUCTION BASELINE STATION
- NOTES:
- CONTRACTOR SHALL NOTE THAT AERIAL PHOTOGRAPHY PREDATES RECENT DEVELOPMENT OF SOUTH BAY BLVD EXTENSION FROM LOS OSOS VALLEY ROAD TO BAY OAKS DRIVE.
 - CONTRACTOR SHALL VERIFY UTILITIES AND LOCATION AND DEPTH OF EXISTING SEWER FACILITIES PRIOR TO BEGINNING WORK.
 - GRAVITY SEWER (SS) PIPE OUT OF SECTION. SS SHOWN FOR REFERENCE ONLY.
 - SAW CUT AND REMOVE EX 4" PVC PIPE TO INSTALL A NEW 4"x4"x2" CLASS 100 PVC SPGTxTEE WITH ONE END CAP. SPGTxSPGT GLUE ON WITH 4-INCH SLIP COUPLINGS. GLUE (SOCKET WELD) NEW 2" PVC. INVERT ELEVATION OF 4" PVC IS APPROXIMATELY 172.0 FT. CONTRACTOR TO FIELD VERIFY.
 - REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.
 - TERMINATE CONDUIT AT LCP.
 - TERMINATE CONDUIT AT VALVE VAULT.

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DESIGNED BY:	KS, RLA
DRAWN BY:	RKU
CHECKED BY:	BJC
DATE:	APRIL 2012

REV NO	DATE	DRWN	CHKD	REMARKS
1	10/28/13	LLB	RLA	RFI 145 - RELOCATE REW
2	5/29/13	LLB	RLA	RFI 100 - RELOCATE SS & FM TO AVOID SDMH'S

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 Sacramento, CA 95833
 Tel: (916) 567-9500

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PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA
 No. 50902
 Exp. 03/31/15

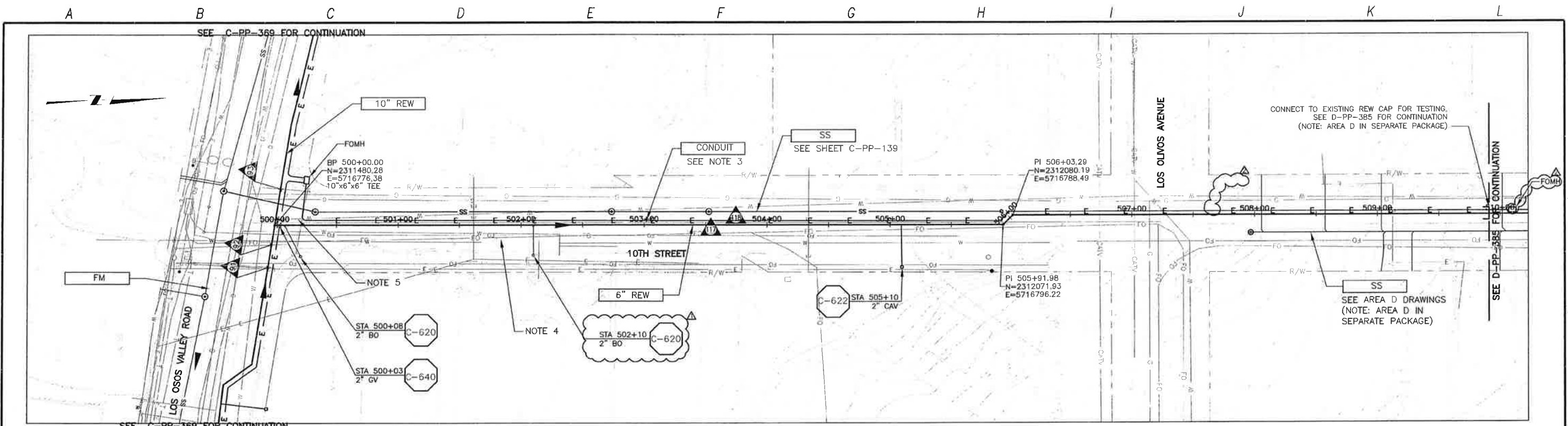
DIGALERT
 DIAL TOLL FREE
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 AT LEAST TWO DAYS BEFORE YOU DIG
 UNDERGROUND SERVICE ALERT IF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE - REW
 SOUTH BAY BLVD
 STA 250+06.4 TO STA 257+27.73

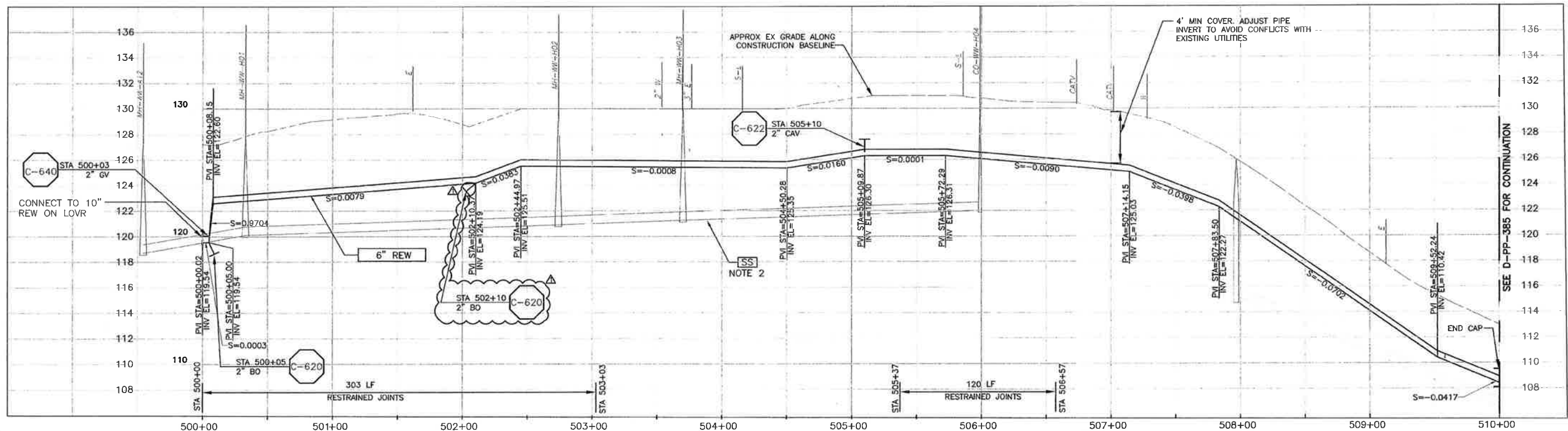
PROJECT NO. 42502-83120
 FILE NAME: C-PP-379
 SHEET NO.
C-PP-379.2

SCALE:
 HORZ: 1"=40'
 VERT: 1"=4'

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PLAN ON 10TH STREET



PROFILE ON 10TH STREET

- CONSTRUCTION BASELINE STATION
- NOTES:
- CONTRACTOR SHALL REPAIR EXISTING TRAFFIC CONTROL SYSTEM, INCLUDING INSTALLING NEW DETECTOR LOOPS, WHERE CONSTRUCTION RESULTS IN DAMAGE TO EXISTING SYSTEM. CONTRACTOR SHALL COORDINATE REPAIRS WITH COUNTY OF SAN LUIS OBISPO.
 - GRAVITY SEWER (SS) PIPE OUT OF SECTION. SS SHOWN FOR REFERENCE ONLY.
 - REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPELINE.
 - MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT AND MANHOLES.
 - CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF WATER LINE BEFORE INSTALLING REW PIPE. PROVIDE MIN. HORIZONTAL AND VERTICAL CLEARANCE.

REV. NO.	DATE	DRWN	CHKD	REMARKS
1/14/14	LLB	RLA		NOC 86 - RELOCATE FOMH TO CONNECTION POINT WITH AREA D
2/25/14	LLB	RLA		DCM 76 - IDENTIFY BLOWOFF

DESIGNED BY: KS, RLA
 DRAWN BY: RKU
 CHECKED BY: BJC
 DATE: APRIL 2012

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 Sacramento, CA 95833
 Tel: (916) 567-9900



0 1/2 1
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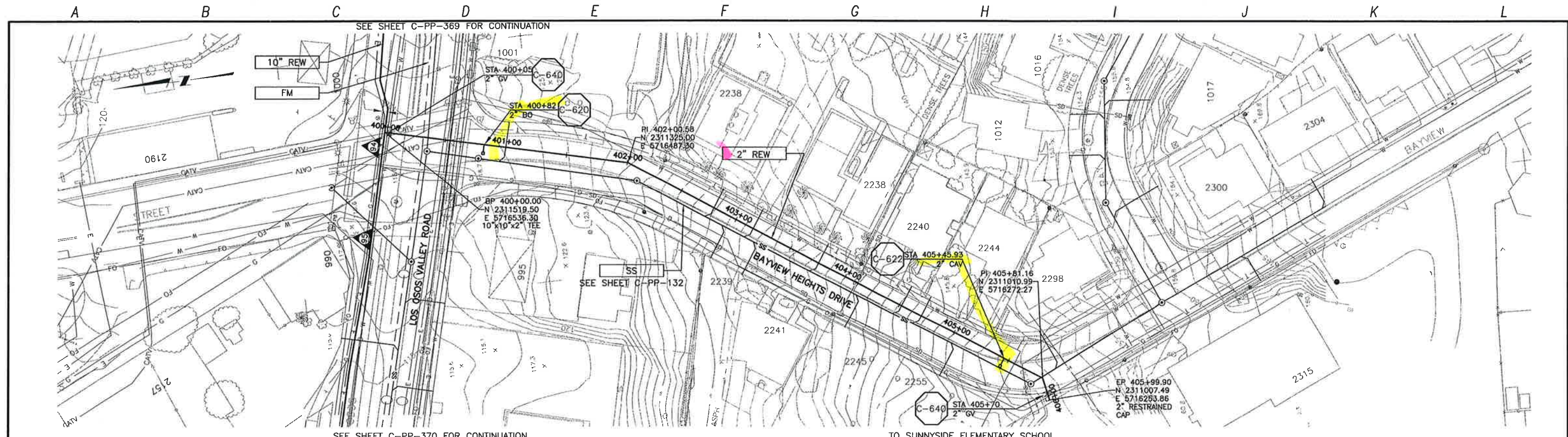
DIGALERT
 UNDERGROUND SERVICE ALERT OF HAZARDOUS CALIFORNIA
 DIAL TOLL FREE 1-800-642-2444
 AT LEAST TWO DAYS BEFORE YOU DIG

LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE - REW
 10th STREET
 STA 500+00 TO STA 510+00

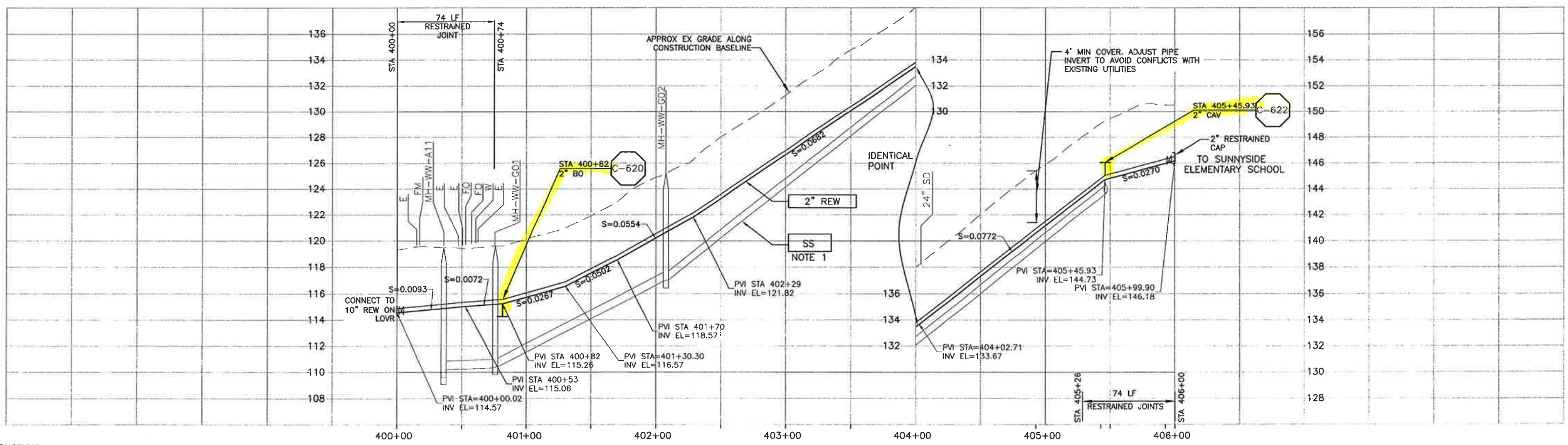
PROJECT NO. 42502-83120
 FILE NAME: C-PP-380
 SHEET NO. C-PP-380.2

SCALE:
 HORZ: 1"=40'
 VERT: 1"=4'

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PLAN ON BAYVIEW HEIGHTS DRIVE



PROFILE ON BAYVIEW HEIGHTS DRIVE

CONSTRUCTION BASELINE STATION

NOTES:
 1. GRAVITY SEWER (SS) OUT OF SECTION. SS SHOWN FOR REFERENCE ONLY.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: KS
 DRAWN BY: RKU
 CHECKED BY: RLA
 DATE: APRIL 2012

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 Sacramento, CA 95833
 Tel: (916) 567-9900



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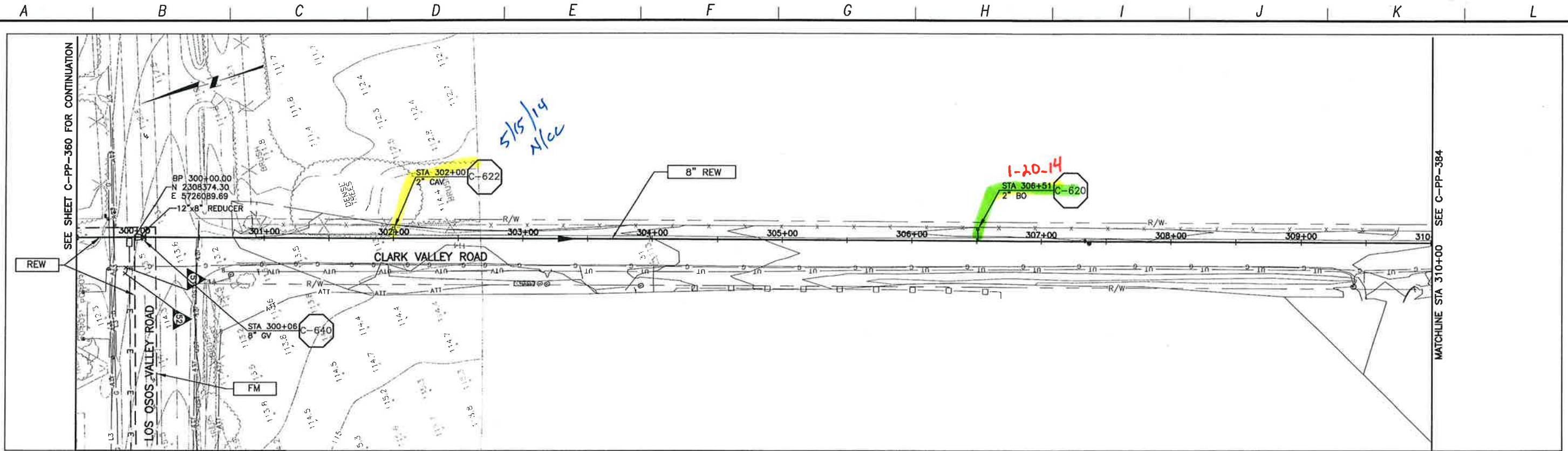
DIGALERT
 DIAL TOLL FREE
 1-800-542-2444
 AT LEAST TWO DAYS BEFORE YOU DIG
 UNDERGROUND SERVICE ALERTS OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE - **REW**
 BAYVIEW HEIGHTS DRIVE
 400+00 TO 405+99.90

PROJECT NO. 42502-83120
 FILE NAME: C-PP-381
 SHEET NO.
C-PP-381

SCALE:
 HORZ: 1"=40'
 VERT: 1"=4'

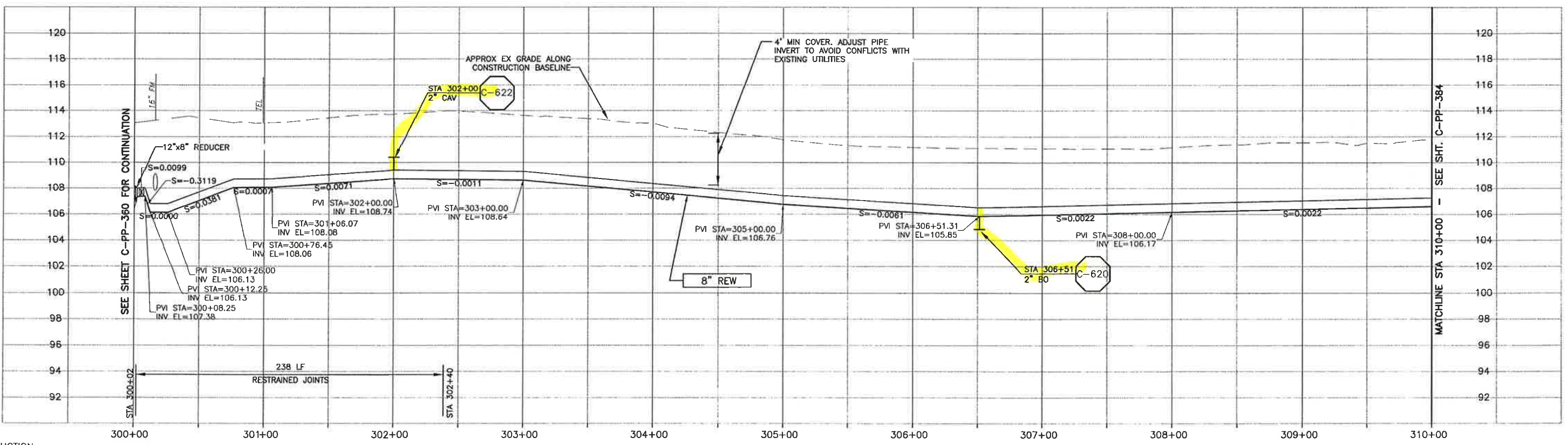
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SEE SHEET C-PP-360 FOR CONTINUATION

MATCHLINE STA 310+00 SEE C-PP-384

PLAN ON CLARK VALLEY ROAD



NOTES:

CONSTRUCTION
BASELINE
STATION

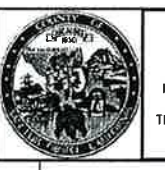
MATCHLINE STA 310+00 SEE SHT. C-PP-384

PROFILE ON CLARK VALLEY ROAD

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: KS, RLA
 DRAWN BY: RRU
 CHECKED BY: BJC
 DATE: APRIL 2012

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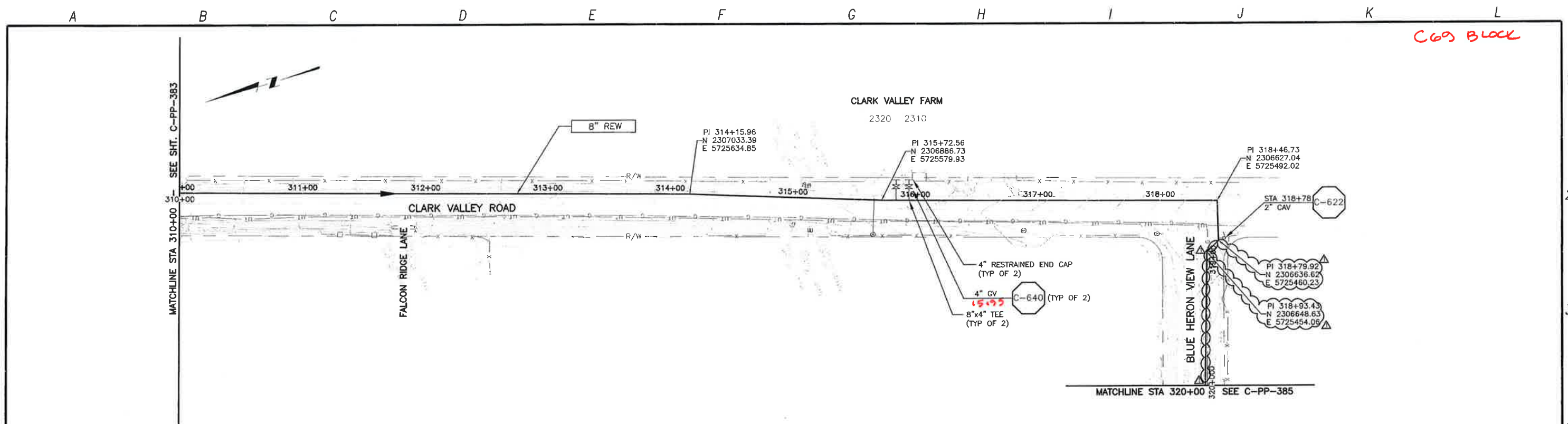


LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE - REW
 CLARK VALLEY ROAD
 STA 300+00 TO STA 310+00

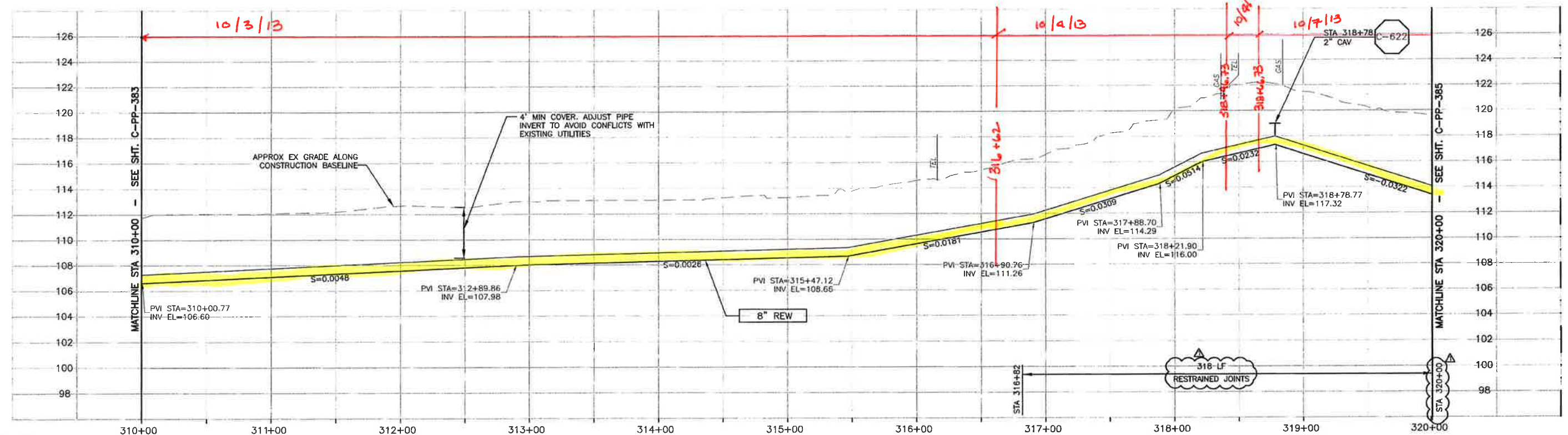
PROJECT NO. 42502-83120
 FILE NAME: C-PP-383
 SHEET NO.
C-PP-383

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

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PLAN ON CLARK VALLEY ROAD



PROFILE ON CLARK VALLEY ROAD

CONSTRUCTION BASELINE STATION

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	10/10/13	LLB	RLA	RFI 138 - RELOCATE REW TO AVOID TREES

DESIGNED BY: KS, RLA
 DRAWN BY: RKU
 CHECKED BY: BJC
 DATE: APRIL 2012

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 Sacramento, CA 95833
 Tel: (916) 667-9900

0 1/2" = 1'
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REGISTERED PROFESSIONAL ENGINEER
 STATE OF CALIFORNIA
 10/10/13

DIGALERT
 DIAL TOLL FREE: 1-800-642-2444
 AT LEAST TWO DAYS BEFORE YOU DIG
 UNDERGROUND SERVICE AGENCY OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE - REW
 CLARK VALLEY ROAD
 STA 310+00 TO STA 320+00

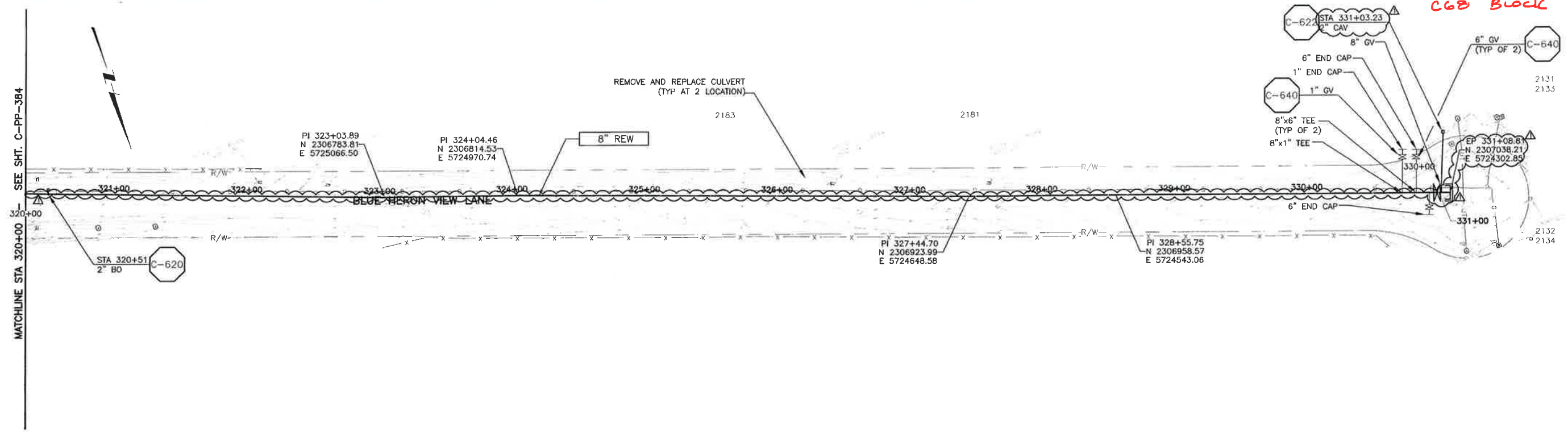
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 SHEET NO.
C-PP-384.1

SCALE:
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 VERT: 1"=4'

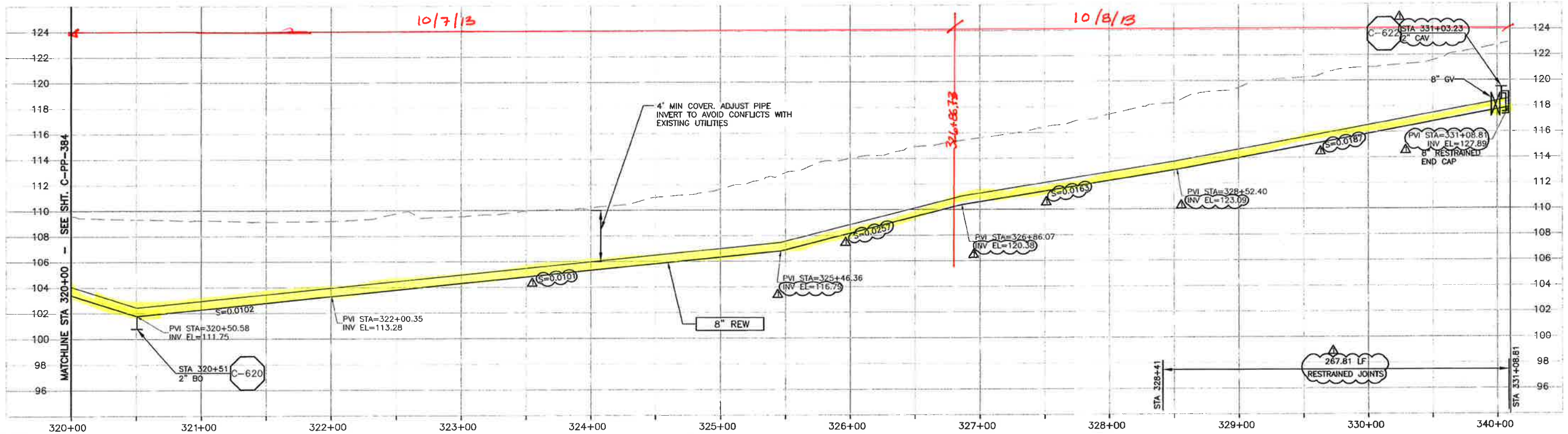
C69 BLOCK

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A B C D E F G H I J K L



PLAN ON BLUE HERON VIEW LANE



PROFILE ON BLUE HERON VIEW LANE

CONSTRUCTION BASELINE STATION

NOTES:

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	10/10/13	LLB	RLA	RFT 138 - RELOCATE REW TO AVOID TREES

DESIGNED BY: KL, RLA
 DRAWN BY: RKU
 CHECKED BY: BJC
 DATE: APRIL 2012

CDM Smith
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 Sacramento, CA 95833
 Tel: (916) 567-9900



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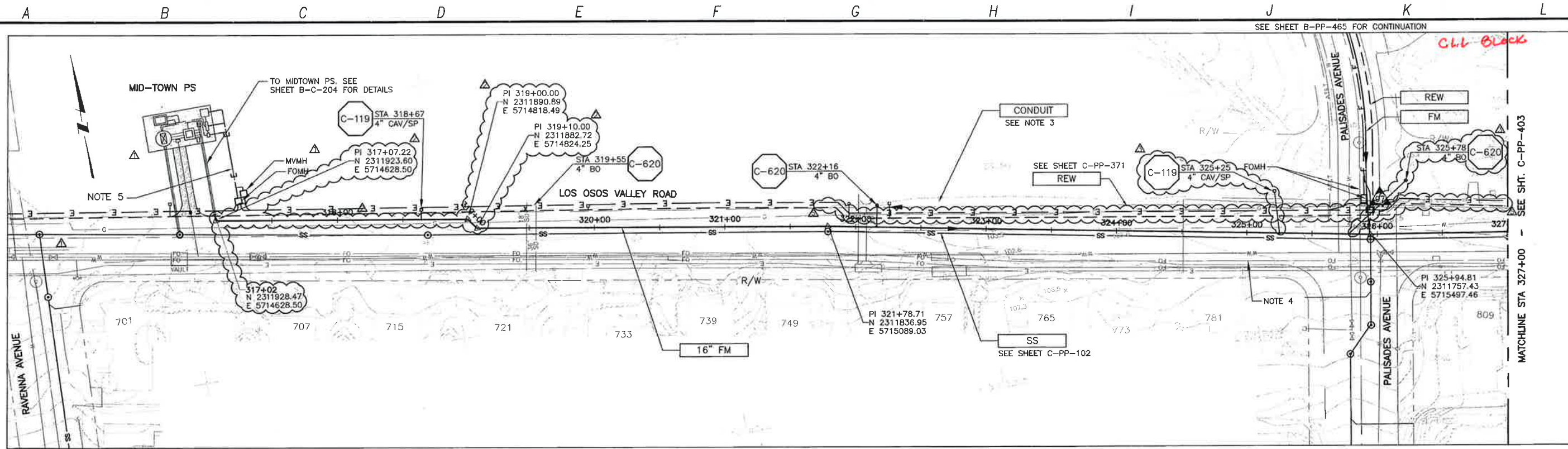
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LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE - REW
 BLUE HERON VIEW LANE
 STA 320+00 TO STA 330+74.87

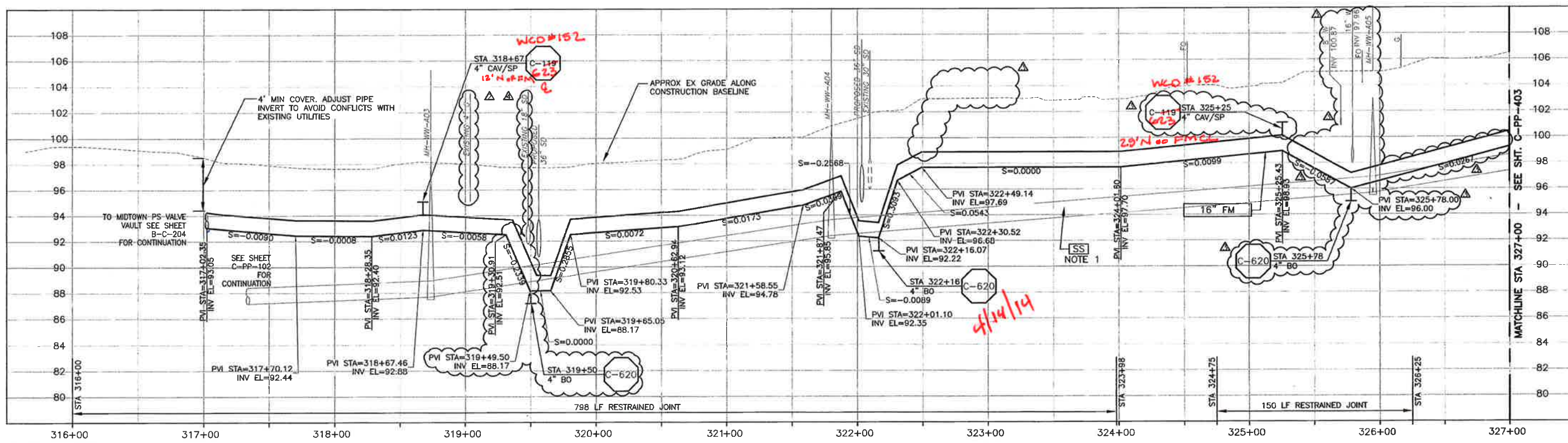
PROJECT NO. 42502-83120
 FILE NAME: C-PP-385
 SHEET NO. C-PP-385.1

SCALE:
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PLAN ON LOS OSOS VALLEY ROAD



PROFILE ON LOS OSOS VALLEY ROAD

- CONSTRUCTION BASELINE STATION
- NOTES:
- GRAVITY SEWER (SS) PIPE OUT OF SECTION. SS SHOWN FOR REFERENCE ONLY.
 - NOMINAL FORCEMAIN PIPE SIZE CALLOUT IS FOR PVC PIPE MATERIAL. IF HDPE IS UTILIZED, NOMINAL PIPE SIZE SHALL BE 18\".
 - REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPE LINE.
 - MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT MANHOLES.
 - TERMINATE CONDUITS APPROXIMATELY 60 FT NORTH OF LOS OSOS VALLEY ROAD

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	11/25/13	LLB	RLA	RFI 148 - RELOCATE REW
2	2/07/13	LLB	RLA	DCM 28 - RELOCATE FM TO AVOID SD
3	1/29/13	LLB	RLA	DCM 25 - LOWER FM TO AVOID W
4	11/16/12	LLB	RLA	RFI 28 - RELOCATE FM
5	7/2012	LLB	RLA	CONFORMED

DESIGNED BY: KS, RLA
 DRAWN BY: RU
 CHECKED BY: BJC
 DATE: APRIL 2012

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 Sacramento, CA 95833
 Tel: (916) 567-9900



0 1/2 1
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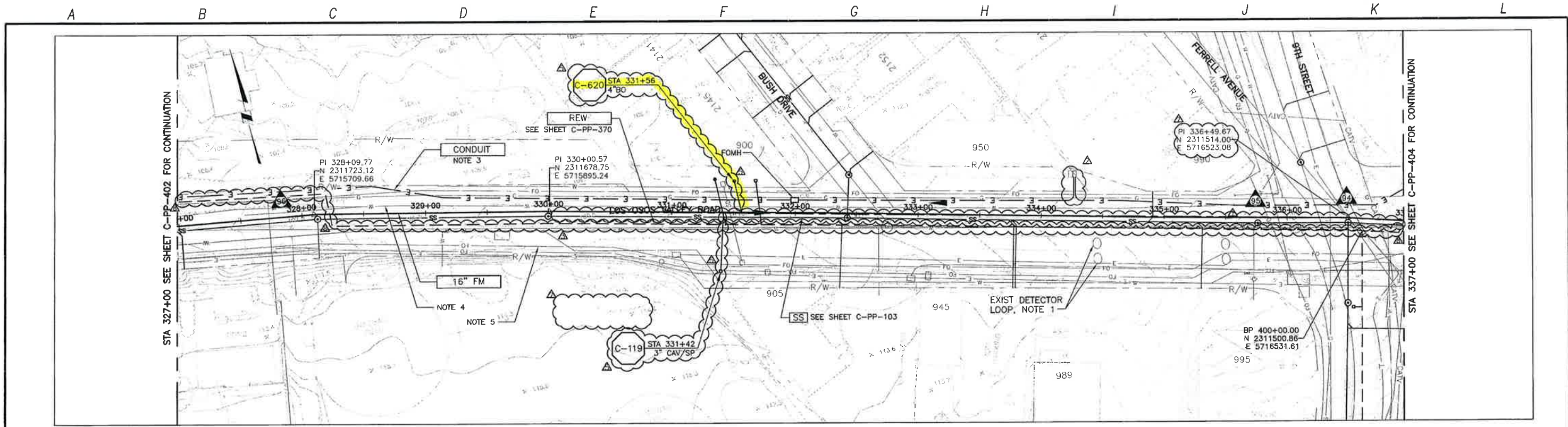
DIGALERT
 DIAL TOLL FREE 1-800-642-2444
 AT LEAST TWO DAYS BEFORE YOU DIG
 UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE - FM
 LOS OSOS VALLEY ROAD
 STA 316+00 TO STA 327+00

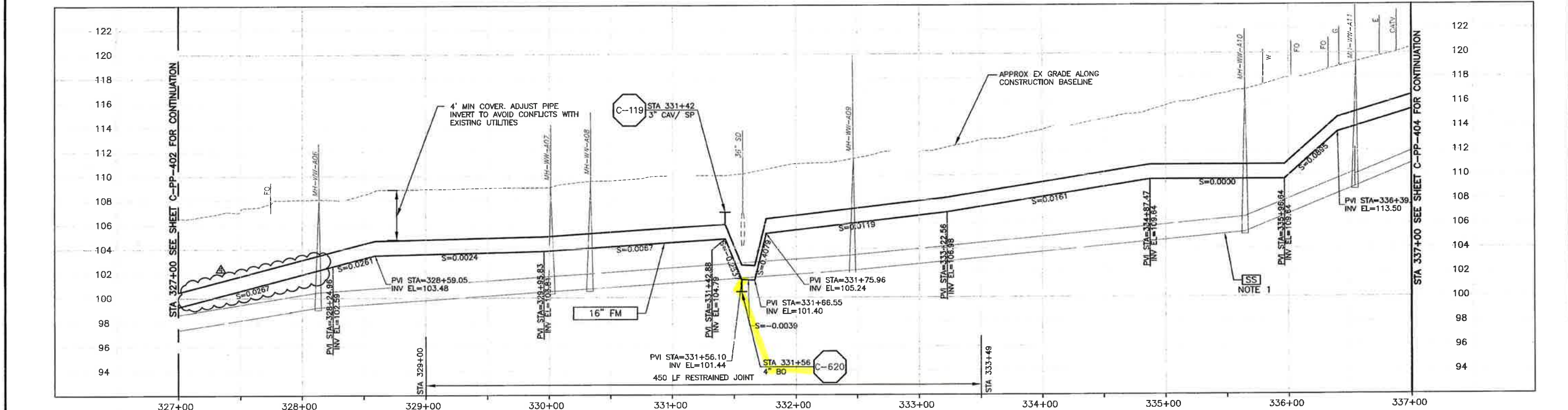
PROJECT NO. 42502-83120
 FILE NAME: C-PP-402
 SHEET NO. C-PP-402.4/5

SCALE:
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PLAN ON LOS OSOS VALLEY ROAD



PROFILE ON LOS OSOS VALLEY ROAD

- CONSTRUCTION BASELINE STATION
- NOTES:**
- GRAVITY SEWER (SS) PIPE OUT OF SECTION. SS SHOWN FOR REFERENCE ONLY.
 - NOMINAL FORCEMAIN PIPE SIZE CALLOUT IS FOR PVC PIPE MATERIAL. IF HDPE IS UTILIZED, NOMINAL PIPE SIZE SHALL BE 18".
 - REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPE LINE.
 - CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF WATER LINE BEFORE INSTALLING FM PIPE. PROVIDE MIN. HORIZONTAL AND VERTICAL CLEARANCE.
 - MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT MANHOLES.

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	11/25/13	LLB	RLA	RFI 148 - RELOCATE REW
2	3/06/13	LLB	RLA	DCM 30 - UPDATE STATIONING
3	2/04/13	LLB	RLA	DCM 26 - RELOCATE BO DISCHARGE
4	1/29/13	LLB	RLA	DCM 25 - LOWER FM TO AVOID W
5	1/09/13	LLB	RLA	MEMO 139 - REFLECTED PREVIOUS CHANGES TO THE SS AND FM

DESIGNED BY: KS, RLA
 DRAWN BY: RU
 CHECKED BY: BJC
 DATE: APRIL 2012

CDM Smith
 2295 Gateway Oaks Drive, Suite 240
 Sacramento, CA 95833
 Tel: (916) 567-9900

0 1/2 1
 IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY

PROFESSIONAL ENGINEER
 CIVIL
 STATE OF CALIFORNIA
 No. 12513

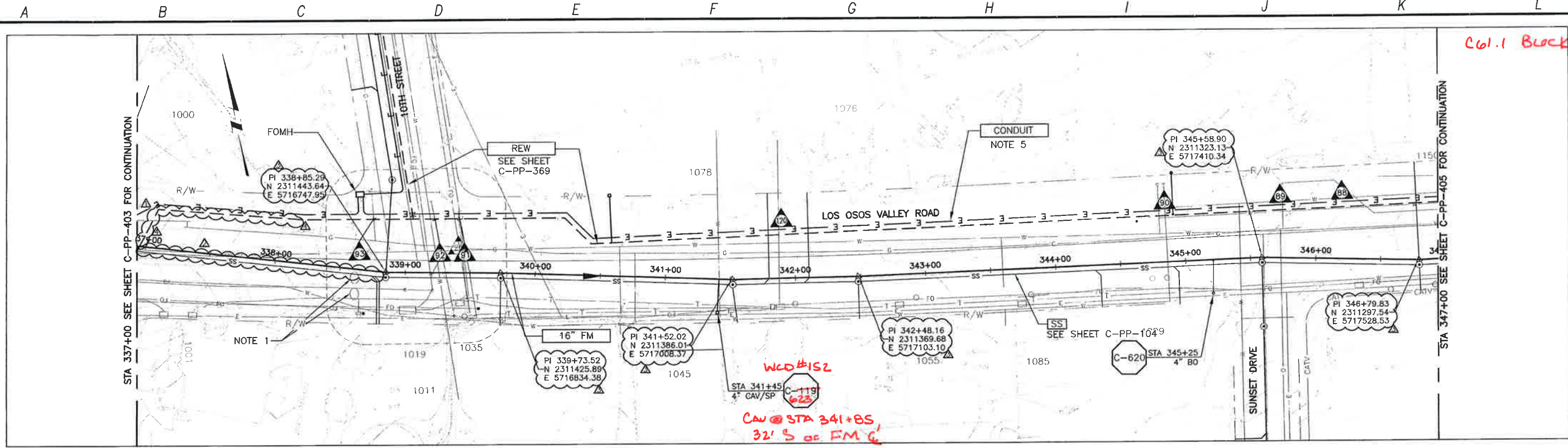
DIGALERT
 DIAL TOLL FREE: 1-800-642-2444
 AT LEAST 800 DAYS BEFORE YOU DIG
 UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE - FM
 LOS OSOS VALLEY ROAD
 STA 327+00 TO STA 337+00

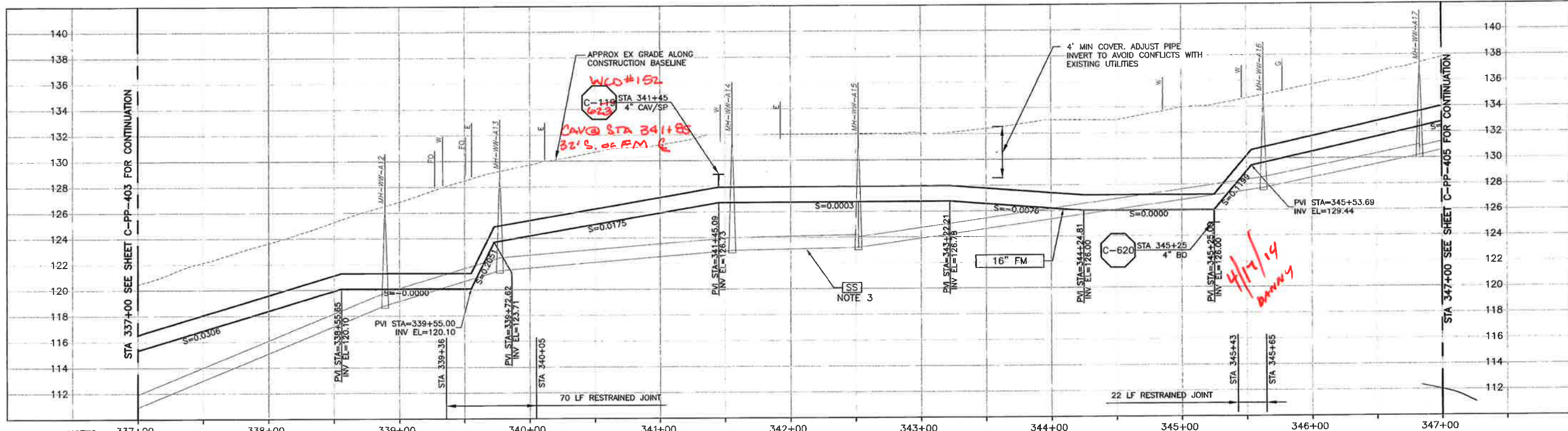
PROJECT NO. 42502-83120
 FILE NAME: C-PP-403
 SHEET NO. C-PP-403.6

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

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PLAN ON LOS OSOS VALLEY ROAD



PROFILE ON LOS OSOS VALLEY ROAD

- CONSTRUCTION BASELINE STATION
- NOTES:
- CONTRACTOR SHALL REPAIR EXISTING TRAFFIC CONTROL SYSTEM, INCLUDING INSTALLING NEW DETECTOR LOOPS, WHERE CONSTRUCTION RESULTS IN DAMAGE TO EXISTING SYSTEM. CONTRACTOR SHALL COORDINATE REPAIRS WITH COUNTY OF SAN LUIS OBISPO.
 - NOT ALL MONITORING WELLS ARE SHOWN.
 - GRAVITY SEWER (SS) PIPE OUT OF SECTION. SS SHOWN FOR REFERENCE ONLY.
 - NOMINAL FORCEMAIN PIPE SIZE CALLOUT IS FOR PVC PIPE MATERIAL. IF HDPE IS UTILIZED, NOMINAL PIPE SIZE SHALL BE 18\".
 - REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPE LINE.

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	11/25/13	LLB	RLA	RFI 148 - RELOCATE REW
2	3/06/13	LLB	RLA	DCM 30 - UPDATED STATIONING
3	1/09/13	LLB	RLA	MEMO 139 - REFLECTED PREVIOUS CHANGES TO THE SS AND FM
4	7/20/12	LLB	RLA	CONFORMED
5	5/18/12	LLB	RLA	ADDENDUM #1

DESIGNED BY: KS, RLA
 DRAWN BY: RKU
 CHECKED BY: BJC
 DATE: APRIL 2012

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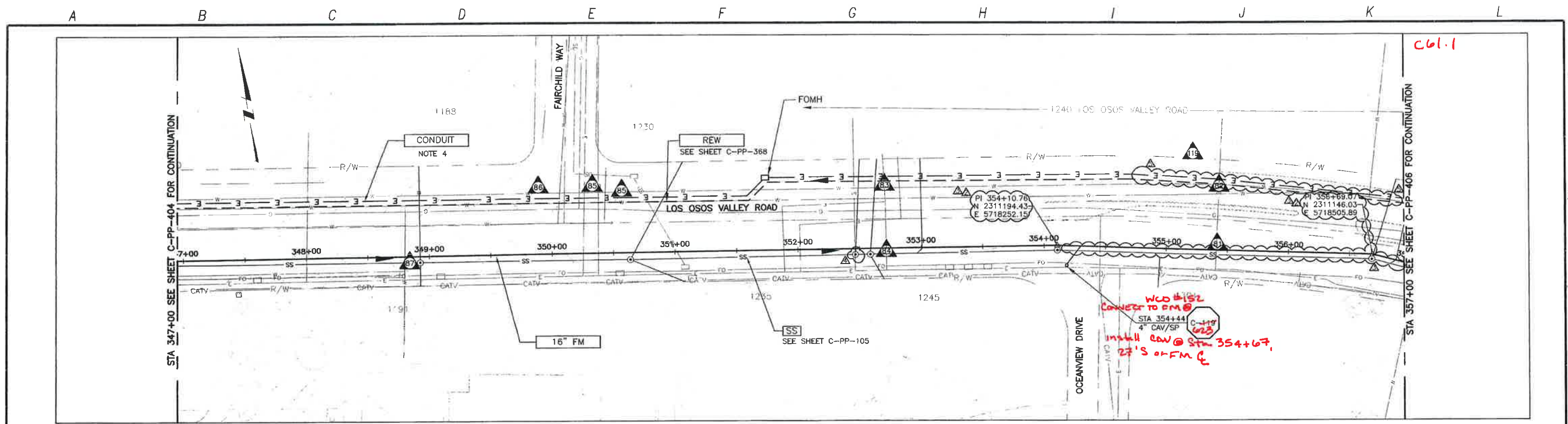
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LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE - FM
 LOS OSOS VALLEY ROAD
 STA 337+00 TO STA 347+00

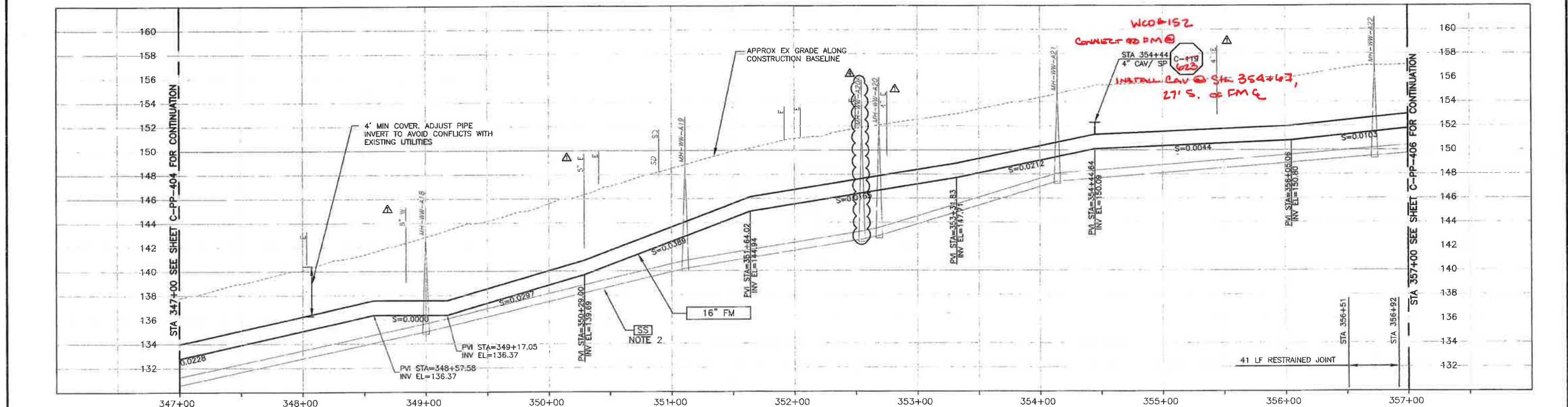
PROJECT NO. 42502-83120
 FILE NAME: C-PP-404
 SHEET NO. C-PP-404.2

SCALE:
 HORZ: 1"=40'
 VERT: 1"=4'

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PLAN ON LOS OSOS VALLEY ROAD



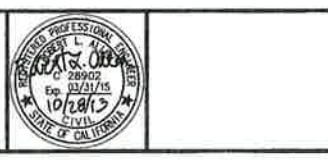
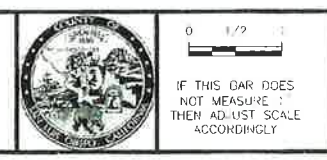
PROFILE ON LOS OSOS VALLEY ROAD

- CONSTRUCTION BASELINE STATION
- NOTES:
- CONTRACTOR SHALL NOTE THAT MAPPING PREDATES DEVELOPMENT AT 1240 LOS OSOS VALLEY ROAD. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS.
 - GRAVITY SEWER (SS) PIPE OUT OF SECTION. SS SHOWN FOR REFERENCE ONLY.
 - NOMINAL FORCEMAIN PIPE SIZE CALLOUT IS FOR PVC PIPE MATERIAL. IF HDPE IS UTILIZED, NOMINAL PIPE SIZE SHALL BE 18".
 - REFER TO SHEET C-G-010 FOR REQUIREMENT OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPE LINE.

REV. NO.	DATE	DRWN	CHKD	REMARKS
10/28/13	LLB	RLA	RFI 145	RELOCATE REW
7/01/13	LLB	RLA	RFI 111	RELOCATE MH-A20A TO ALLOW CLEARANCE FROM MH-A20
7/01/13	LLB	RLA	RFI 108 & 109	RELOCATE SS & FM TO AVOID SD & AT&T
3/06/13	LLB	RLA	DCM 30	UPDATED STATIONING
7/2012	LLB	RLA	CONFORMED	

DESIGNED BY: KS, RLA
 DRAWN BY: RU
 CHECKED BY: BJC
 DATE: APRIL 2012

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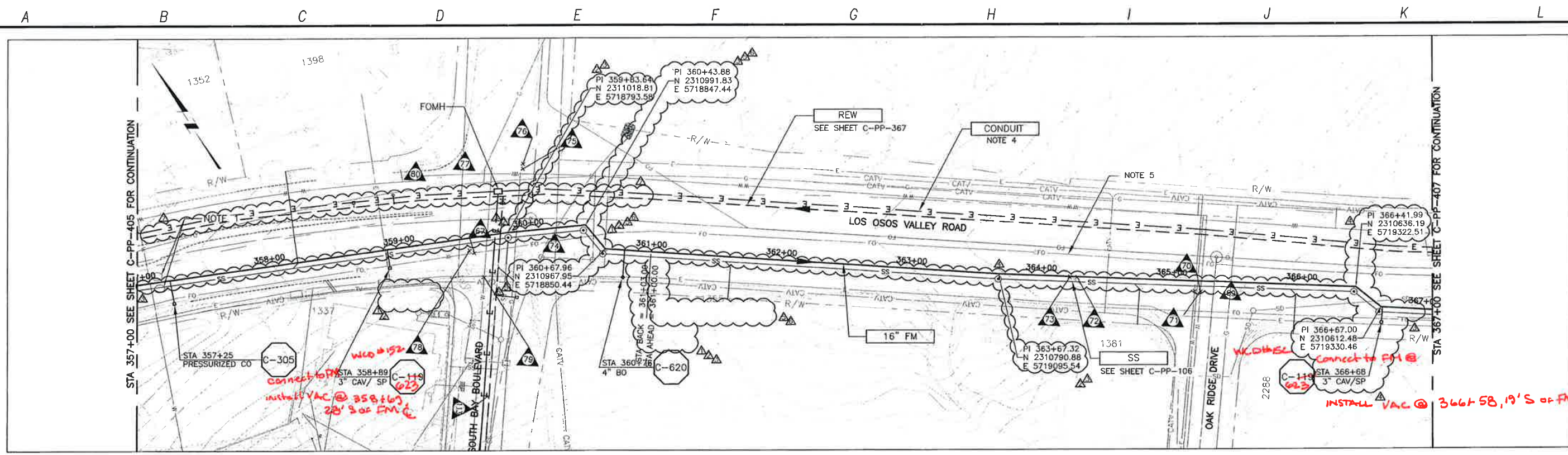


LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE - FM
 LOS OSOS VALLEY ROAD
 STA 347+00 TO STA 357+00

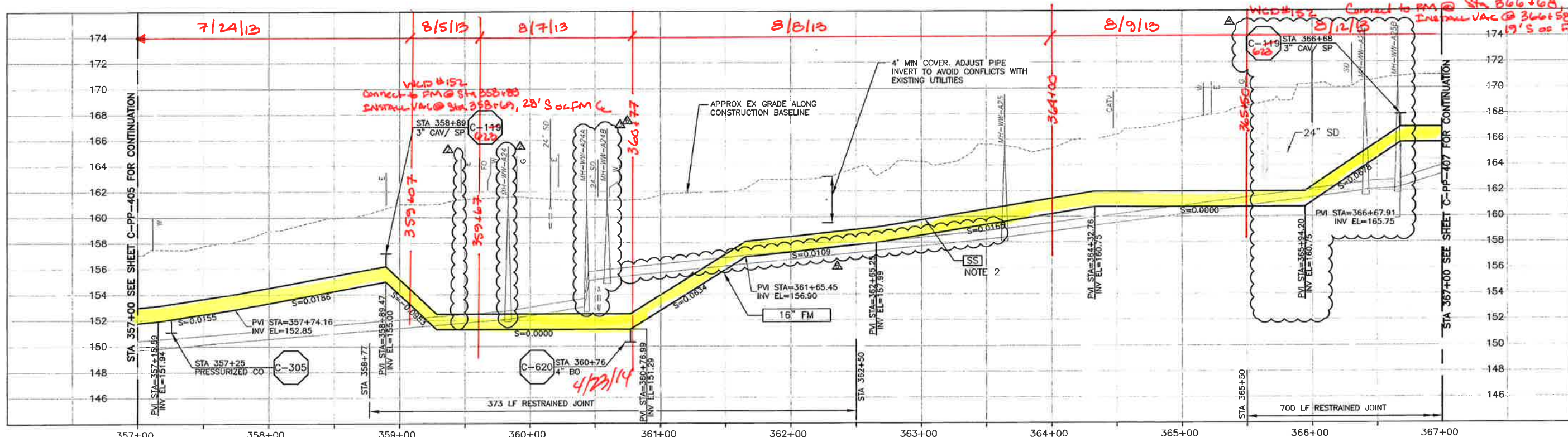
PROJECT NO. 42502-R3120
 FILE NAME: C-PP-405
 SHEET NO.
C-PP-405.3

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

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PLAN ON LOS OSOS VALLEY ROAD



PROFILE ON LOS OSOS VALLEY ROAD

- CONSTRUCTION BASELINE STATION
- NOTES:
- CONTRACTOR SHALL REPAIR EXISTING TRAFFIC CONTROL SYSTEM, INCLUDING INSTALLING NEW DETECTOR LOOPS, WHERE CONSTRUCTION RESULTS IN DAMAGE TO EXISTING SYSTEM. CONTRACTOR SHALL COORDINATE REPAIRS WITH COUNTY OF SAN LUIS OBISPO.
 - GRAVITY SEWER (SS) PIPE OUT OF SECTION. SS SHOWN FOR REFERENCE ONLY.
 - NOMINAL FORCEMAIN PIPE SIZE CALLOUT IS FOR PVC PIPE MATERIAL. IF HDPE IS UTILIZED, NOMINAL PIPE SIZE SHALL BE 18".
 - REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPE LINE.
 - MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT MANHOLES.

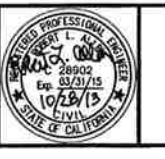
REV. NO.	DATE	DRWN	CHKD	REMARKS
10/28/13	LLB	RLA		RFI 145 - RELOCATE REW
7/30/13	LLB	RLA		RFI 124 - RELOCATE SS & FM TO AVOID SD
7/26/13	LLB	RLA		RFI 121 - RELOCATE SS & FM TO AVOID AT&T
7/26/13	LLB	RLA		RFI 119 & 120 - RELOCATE SS & FM TO AVOID SD & GAS
7/01/13	LLB	RLA		RFI 108 & 109 - RELOCATE SS & FM TO AVOID SD & AT&T

DESIGNED BY: KS, RLA
 DRAWN BY: RU
 CHECKED BY: BJC
 DATE: APRIL 2012

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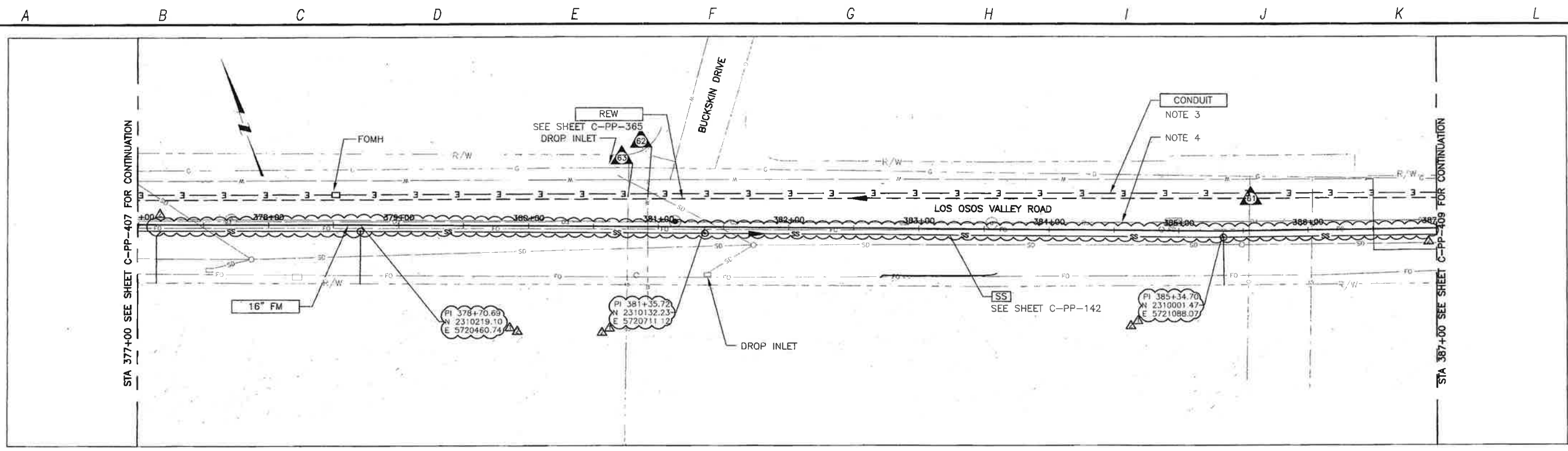
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LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE - FM
 LOS OSOS VALLEY ROAD
 STA 357+00 TO STA 367+00

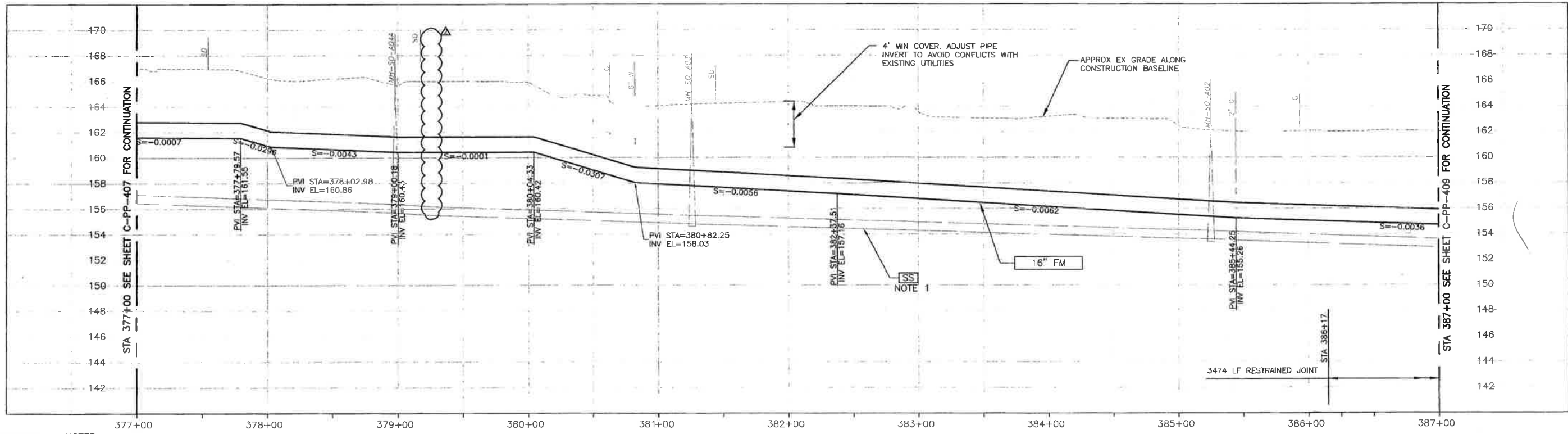
PROJECT NO. 42502-83120
 FILE NAME: C-PP-406
 SHEET NO. C-PP-406.6

SCALE:
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 VERT: 1"=4'

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PLAN ON LOS OSOS VALLEY ROAD



PROFILE ON LOS OSOS VALLEY ROAD

- CONSTRUCTION BASELINE STATION
- NOTES:
- GRAVITY SEWER (SS) PIPE OUT OF SECTION. SS SHOWN FOR REFERENCE ONLY.
 - NOMINAL FORCEMAIN PIPE SIZE CALLOUT IS FOR PVC PIPE MATERIAL. IF HDPE IS UTILIZED, NOMINAL PIPE SIZE SHALL BE 18".
 - REFER TO SHEET C-G-010 FOR REQUIREMENT OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPE LINE.
 - MAINTAIN 2 VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT MANHOLES.

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	5/15/13	LLB	RLA	RFI 129 - RELOCATE SS & FM TO AVOID AT&T AND LEGACY FO
2	3/06/13	LLB	RLA	DCM 30 - UPDATED STATIONING

DESIGNED BY: KS, RLA
 DRAWN BY: RU
 CHECKED BY: BJC
 DATE: APRIL 2012

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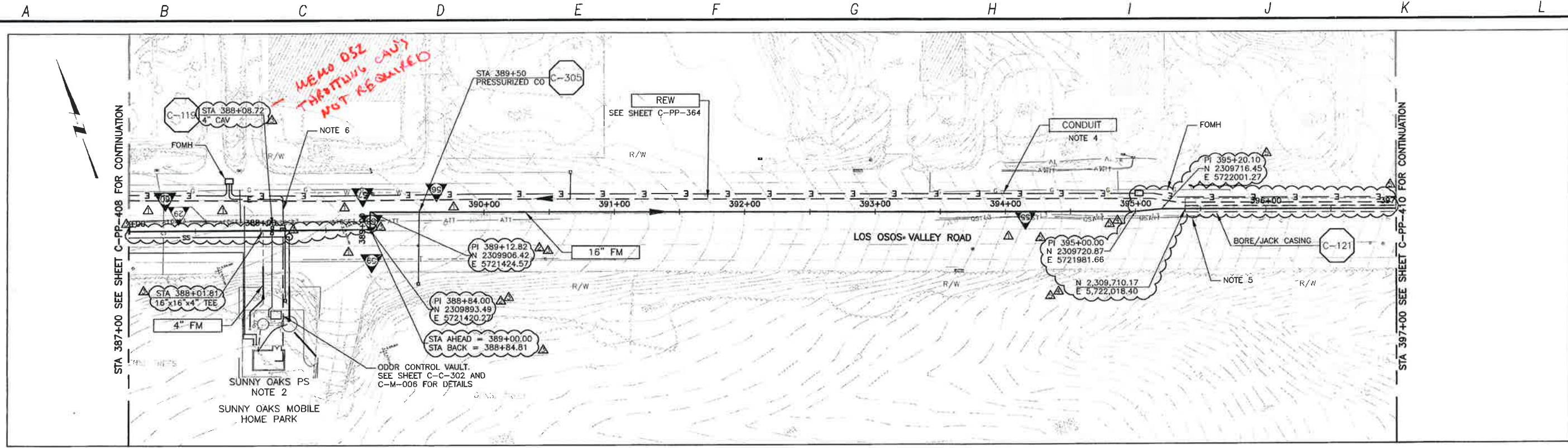


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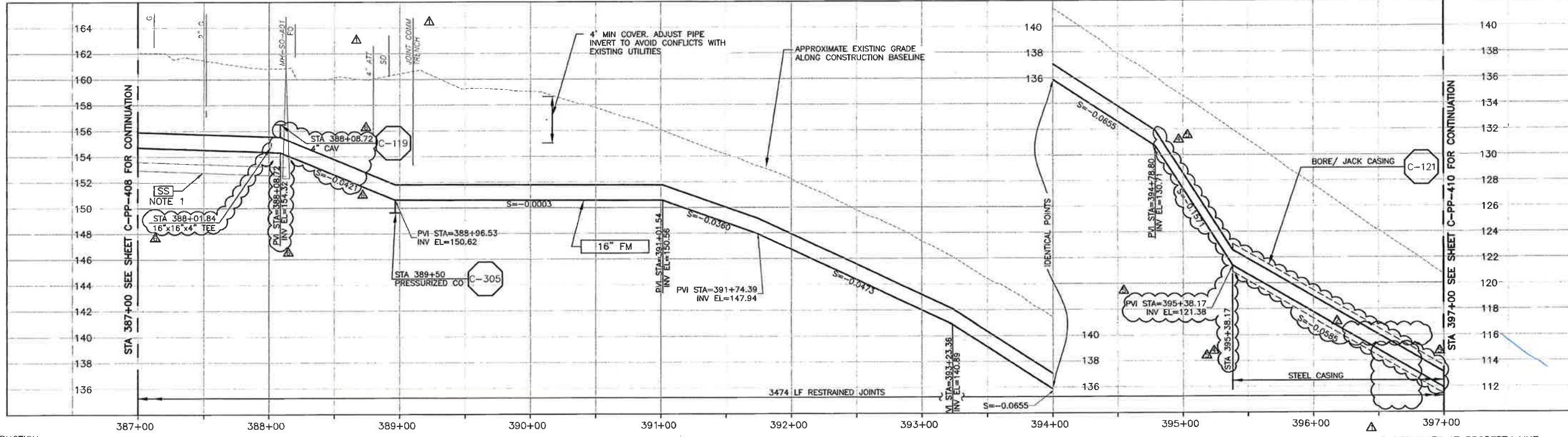
LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE - FM
 LOS OSOS VALLEY ROAD
 STA 377+00 TO STA 387+00

SCALE:
 HORZ: 1"=40'
 VERT: 1"=4'
 PROJECT NO. 42502-83120
 FILE NAME: C-PP-408
 SHEET NO.
C-PP-408.2

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PLAN ON LOS OSOS VALLEY ROAD



PROFILE ON LOS OSOS VALLEY ROAD

- CONSTRUCTION BASELINE STATION
- NOTES:
- GRAVITY SEWER (SS) PIPE OUT OF SECTION. SS SHOWN FOR REFERENCE ONLY.
 - SEE SHEET C-C-302 DETAILS.
 - NOMINAL FORCEMAIN PIPE SIZE CALLOUT IS FOR PVC PIPE MATERIAL. IF HDPE IS UTILIZED, NOMINAL PIPE SIZE SHALL BE 18".
 - REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPE LINE.
 - MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT AND MANHOLE.
 - TERMINATE AT PROPERTY LINE.

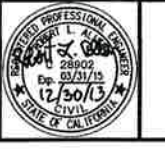
REV. NO.	DATE	DRWN	CHKD	REMARKS
1	12/30/13	LLB	RLA	RFI 129 - UPDATE TEXT
2	11/19/13	LLB	RLA	DCM 63 - LOWER CASING TO AVOID CONDUIT
3	11/14/13	LLB	RLA	DCM 62 - MOVE FM CASING TO MATCH REW CASING LIMITS
4	8/15/13	LLB	RLA	RFI 129 - RELOCATE SS & FM TO AVOID AT&T AND LEGACY FO
5	3/06/13	LLB	RLA	DCM 30 - UPDATED STATIONING & PROFILE

DESIGNED BY: KS, RLA
 DRAWN BY: RU
 CHECKED BY: BUC
 DATE: APRIL 2012

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 Sacramento, CA 95833
 Tel: (916) 567-9900



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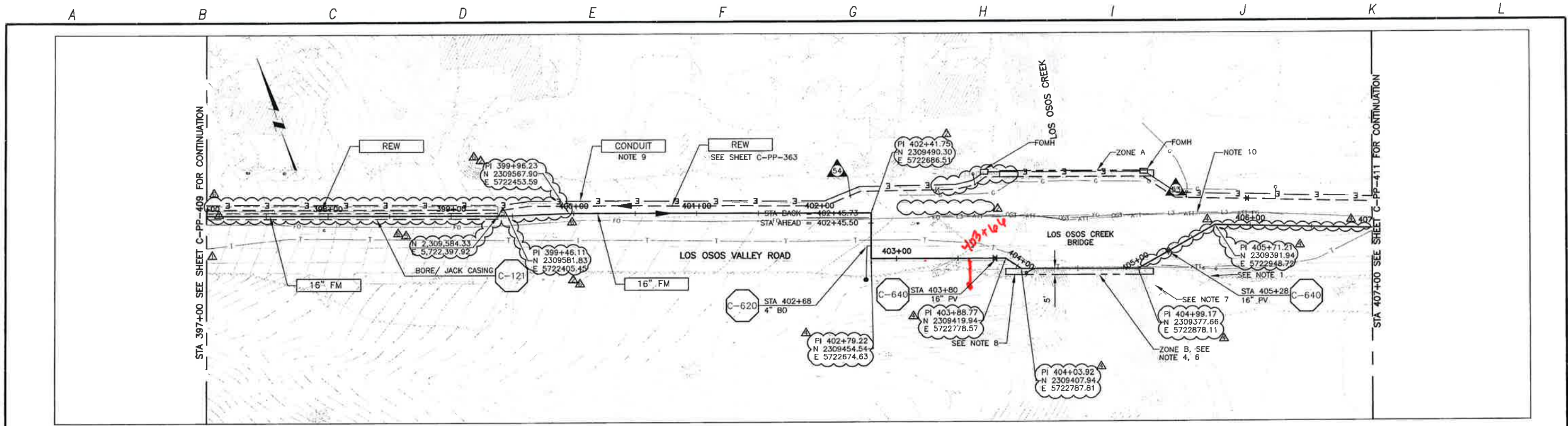
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LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE - FM
 LOS OSOS VALLEY ROAD
 STA 387+00 TO STA 397+00

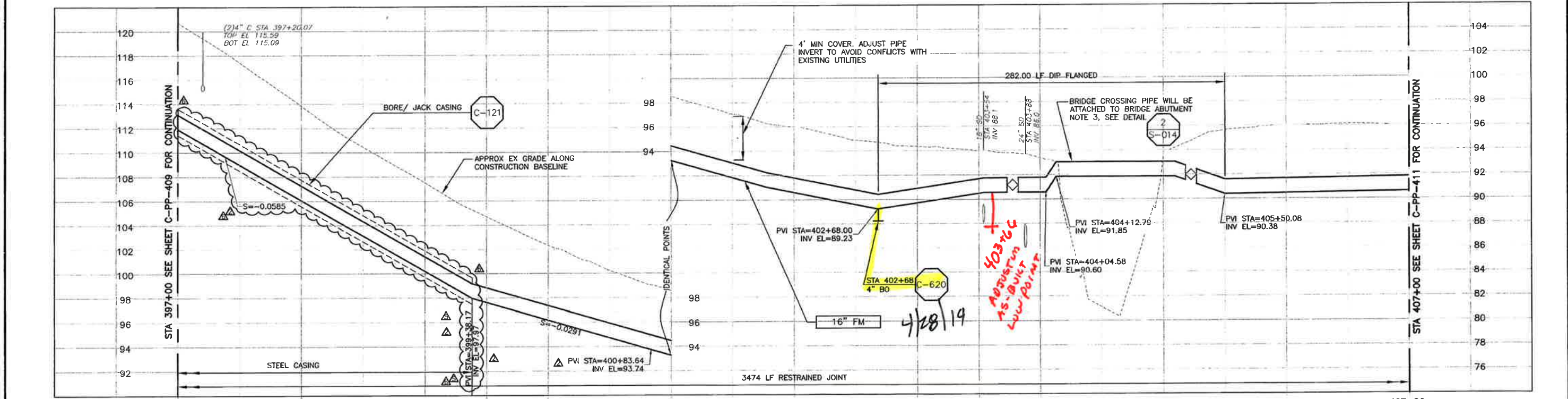
PROJECT NO. 42502-83120
 FILE NAME: C-PP-409
 SHEET NO. C-PP-409.5

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

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PLAN ON LOS OSOS VALLEY ROAD



PROFILE ON LOS OSOS VALLEY ROAD

- NOTES:**
- REPLACE EXISTING METAL GUARD RAILING, POSTS, AND CABLE ANCHOR ASSEMBLIES IN TYPE AND KIND. REPLACE DRAIN INLET IN TYPE AND KIND.
 - NOMINAL FORCEMAIN PIPE SIZE CALLOUT IS FOR PVC PIPE MATERIAL. IF HDPE IS UTILIZED, NOMINAL PIPE SIZE SHALL BE 18".
 - CONTRACTOR TO VERIFY DEPTH AND DIAMETER OF EXISTING 24" UTILITY VOIDS AND ADJUST PIPE DEPTH ACCORDINGLY. SEAL OPENING WITH LINK SEAL AFTER PIPE PENETRATION. PROVIDE INTERMEDIATE SUPPORT PER SPEC.
 - TRIM TREE BRANCHES TO PROVIDE 5-FOOT CLEARANCE FROM EDGE OF BRIDGE DECK.
 - DISTURBANCE ZONE A IS 140-FOOT LONG BY 5-FOOT WIDE.
 - DISTURBANCE ZONE B IS 120-FOOT LONG BY 5-FOOT WIDE.
 - PROTECT SIGN, LIGHTING, AND STATUE.
 - PROTECT GUARD RAIL AND POSTS.
 - REFER TO SHEET C-C-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPE LINE.
 - MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT MANHOLES.

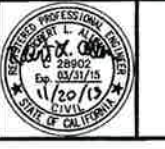
REV. NO.	DATE	DRWN	CHKD	REMARKS
1	11/19/13	LLB	RLA	DCM 63 - LOWER CASING TO AVOID CONDUIT
2	11/14/13	LLB	RLA	DCM 62 - MOVE FM CASING TO MATCH REW CASING LIMITS
3	9/18/13	LLB	RLA	RFI 134 - RELOCATE FM TO AVOID AT&T
4	9/12/13	LLB	RLA	RFI 132 - RELOCATE REW TO AVOID BASIN
5	3/26/13	LLB	RLA	DCM 30 - UPDATED STATIONING & PROFILE

DESIGNED BY: KS, RLA
 DRAWN BY: RU
 CHECKED BY: BJC
 DATE: APRIL 2012

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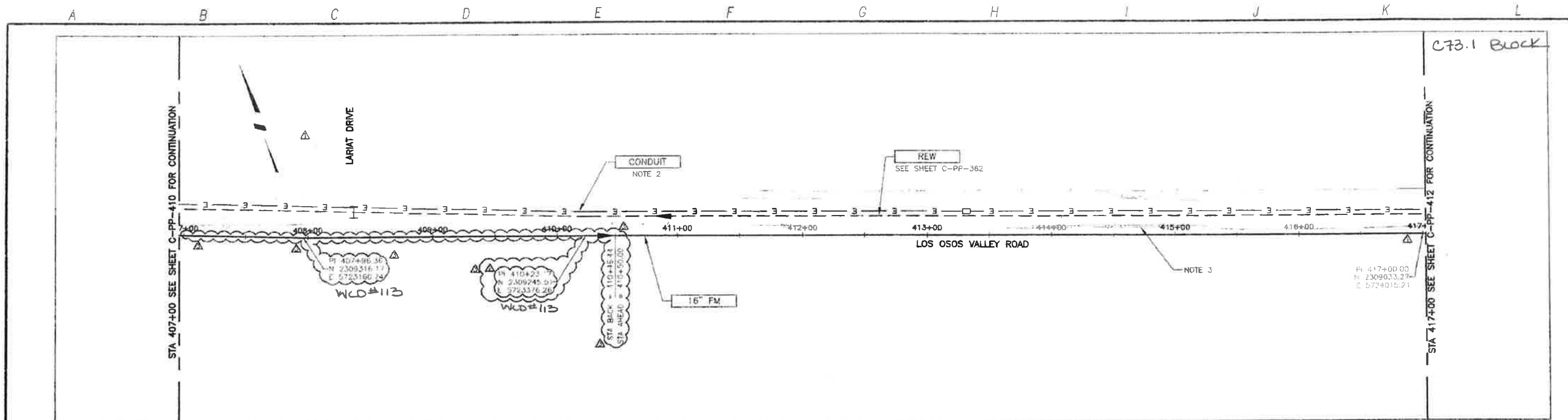


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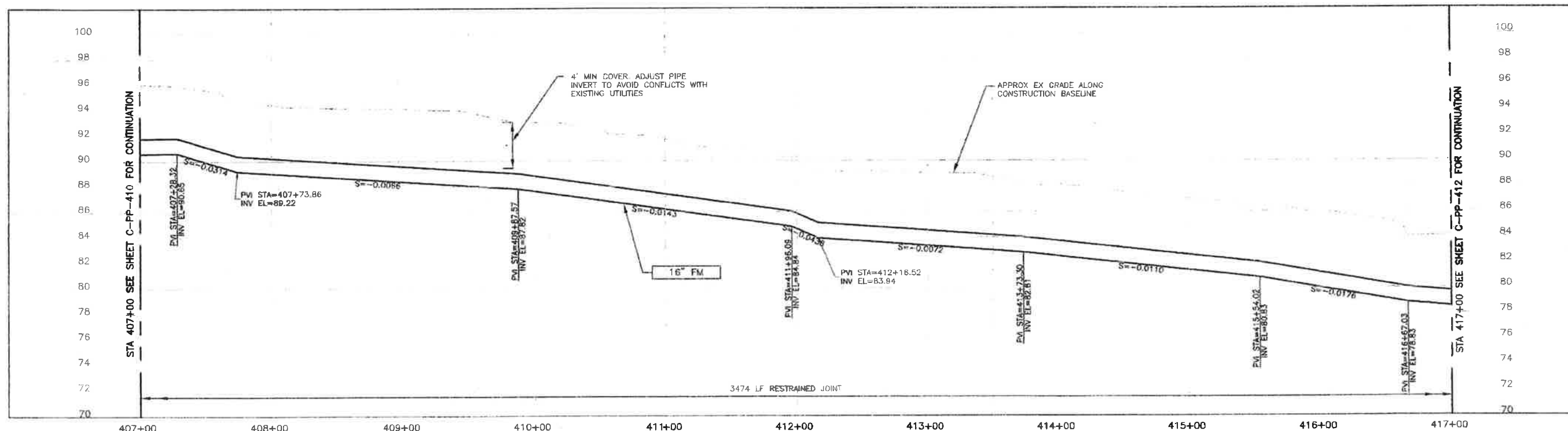
LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE - FM
 LOS OSOS VALLEY ROAD
 STA 397+00 TO STA 407+00

PROJECT NO 42502-83120
 FILE NAME: C-PP-410
 SHEET NO.
C-PP-410.5

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



PLAN ON LOS OSOS VALLEY ROAD



PROFILE ON LOS OSOS VALLEY ROAD

CONSTRUCTION
BASELINE
STATION

NOTES:

1. NOMINAL FORCEMAIN PIPE SIZE CALLOUT IS FOR PVC PIPE MATERIAL. IF HDPE IS UTILIZED, NOMINAL PIPE SIZE SHALL BE 18".

2. REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPE LINE.

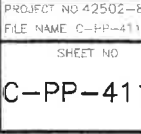
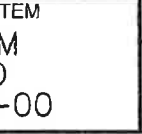
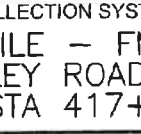
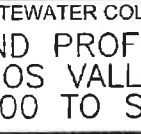
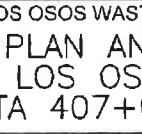
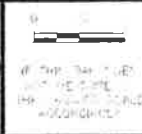
3. MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT MANHOLES.

SCALE
HORZ: 1"=40'
VERT: 1"=2'

REV NO.	DATE	DRWN	CHKD	REMARKS
1	6/18/13	LLB	RJA	REF 134 - RELOCATE FM TO AVOID AT&T
2	5/26/13	LLB	RJA	DCM 30 - UPDATED STATIONING
3	7/2012	LLB	RJA	CON-FORMED
4	5/14/12	LLB	RLA	ADDENDUM #1

DATE	APRIL 2012
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Sacramento, CA 95833
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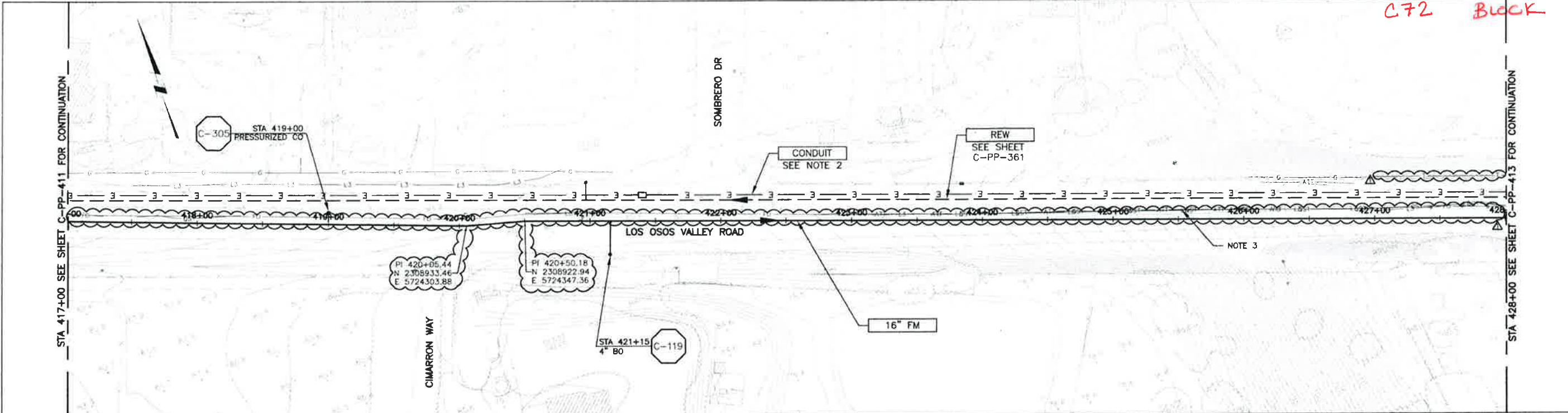
LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE - FM
LOS OSOS VALLEY ROAD
STA 407+00 TO STA 417+00

PROJECT NO 42502-83124
FILE NAME C-PP-411
SHEET NO
C-PP-411.2

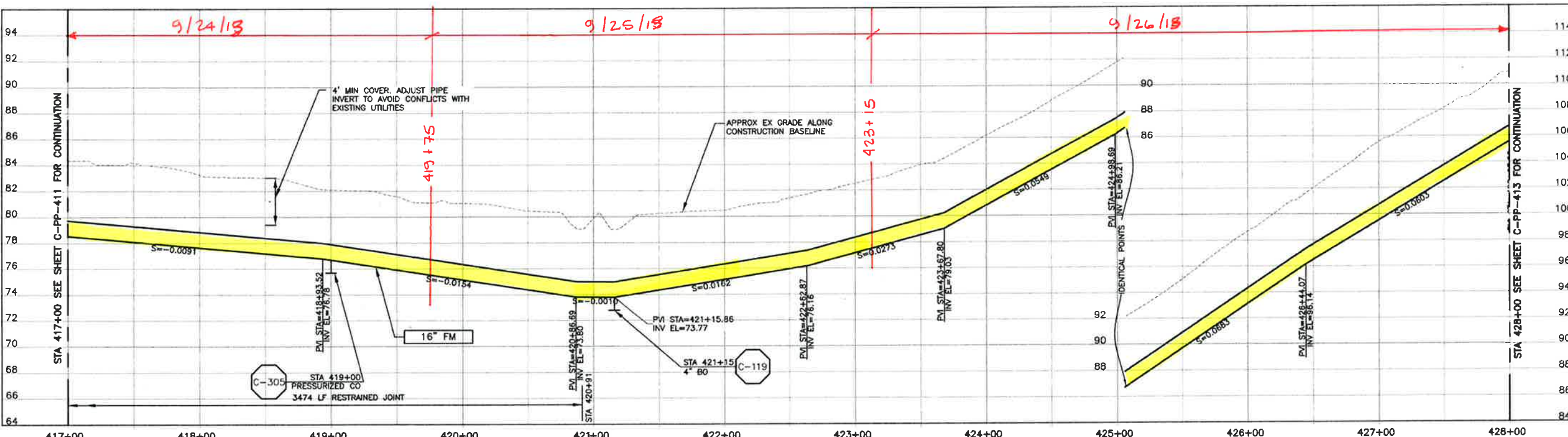
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PLAN ON LOS OSOS VALLEY ROAD



PROFILE ON LOS OSOS VALLEY ROAD

CONSTRUCTION
BASELINE
STATION

NOTES:

- NOMINAL FORCEMAIN PIPE SIZE CALLOUT IS FOR PVC PIPE MATERIAL. IF HDPE IS UTILIZED, NOMINAL PIPE SIZE SHALL BE 18".
- REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPE LINE.

- MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT MANHOLES.

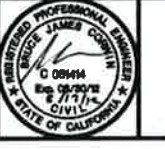
DESIGNED BY:	KS, RLA
DRAWN BY:	RU
CHECKED BY:	BJC
DATE:	APRIL 2012

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	5/18/12	LLB	RLA	ADDENDUM #1

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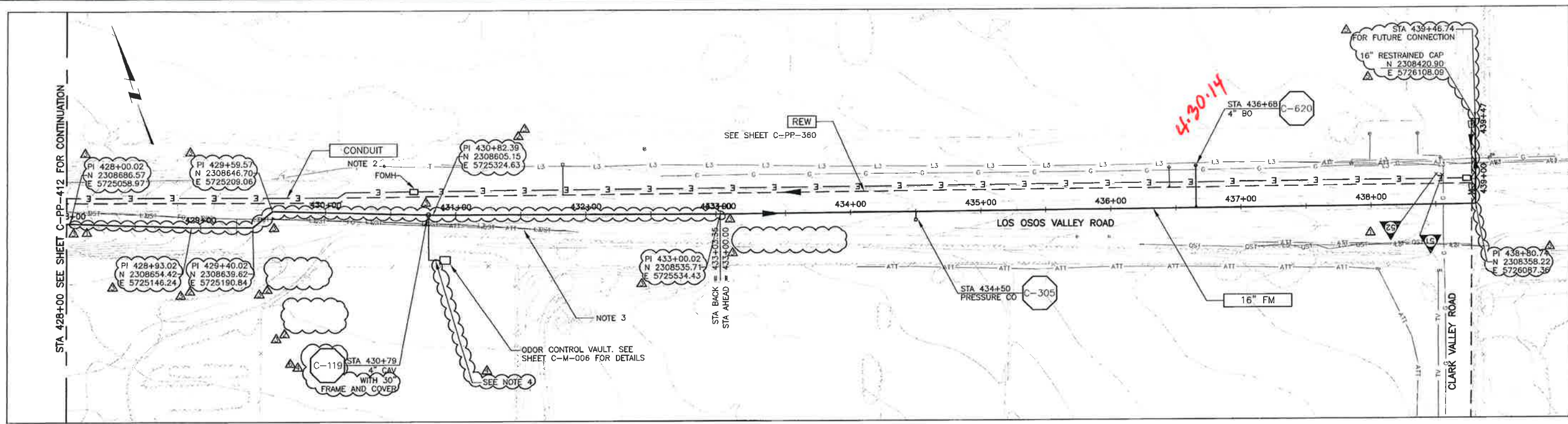
LOS OSOS WASTEWATER COLLECTION SYSTEM
 PLAN AND PROFILE - FM
 LOS OSOS VALLEY ROAD
 STA 417+00 TO STA 428+00

PROJECT NO.	42502-83120
FILE NAME:	C-PP-412
SHEET NO.	C-PP-412

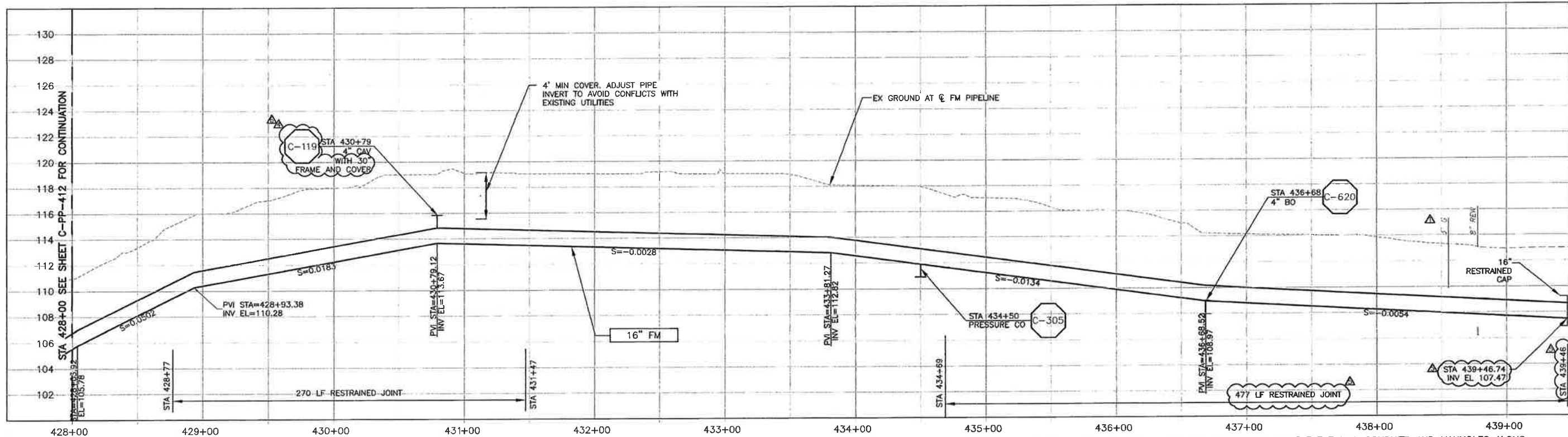
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PLAN ON LOS OSOS VALLEY ROAD



PROFILE ON LOS OSOS VALLEY ROAD

CONSTRUCTION
BASELINE
STATION

NOTES:

- NOMINAL FORCEMAIN PIPE SIZE CALLOUT IS FOR PVC PIPE MATERIAL. IF HDPE IS UTILIZED, NOMINAL PIPE SIZE SHALL BE 18".
- REFER TO SHEET C-G-010 FOR REQUIREMENTS OF ELECTRICAL CONDUITS AND MANHOLES ALONG THE PIPE LINE.
- MAINTAIN 2' VERTICAL AND HORIZONTAL SEPARATION FROM THE AT&T CONDUIT MANHOLES.
- INSTALL 4" FOUL AIR PIPING FROM CAV DISCHARGE TO ODOR CONTROL VAULT. INSTALL VENT PIPE STANDPIPE PER DET. C-622 WITHIN 10' OF VAULT.

SCALE:
HORZ: 1"=40'
VERT: 1"=4'

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	2/25/14	LLB	RLA	WCD 152 - REVISE DETAIL NUMBER
2	2/25/14	LLB	RLA	RFI 171 - RELOCATE FM TO AVOID TEL VAULT
3	1/06/14	LLB	RLA	NOC 71 - REVISE DETAIL NUMBER
4	9/19/13	LLB	RLA	RFI 135 - RELOCATE FM TO AVOID AT&T
5	3/06/13	LLB	RLA	DCM 30 - UPDATED STATIONING

DESIGNED BY: KS,RLA
DRAWN BY: RU
CHECKED BY: BJC
DATE: APRIL 2012

CDM Smith
2295 Gateway Oaks Drive, Suite 240
Sacramento, CA 95833
Tel: (916) 667-9900



IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY

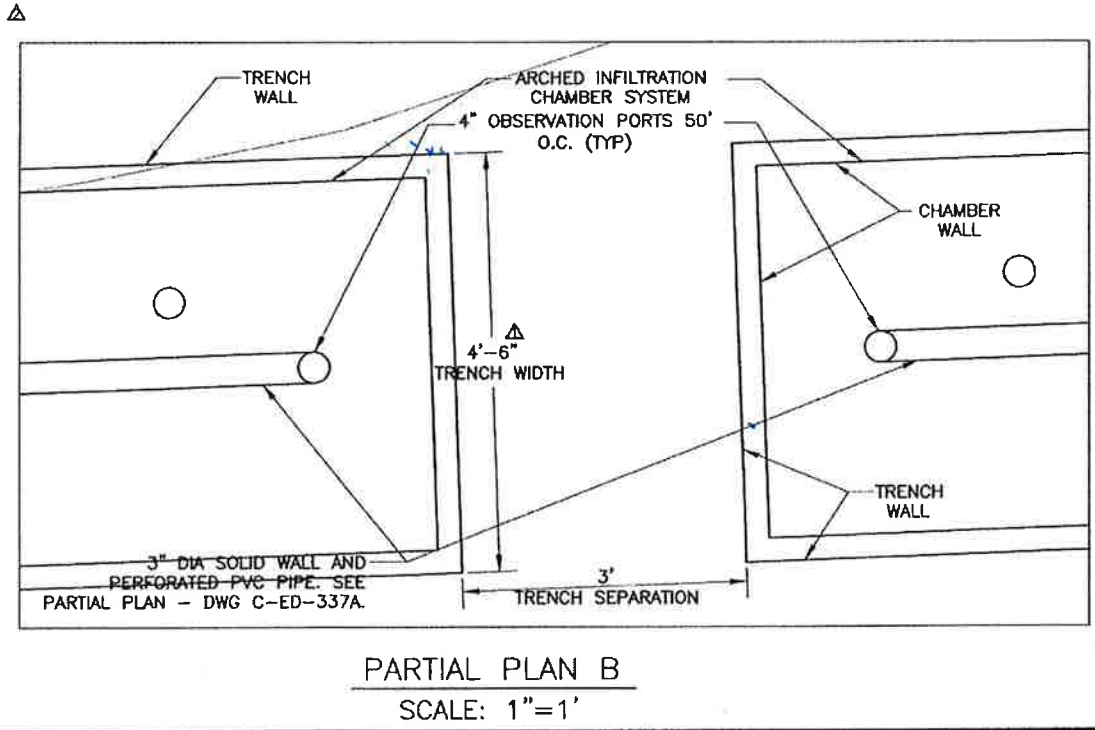
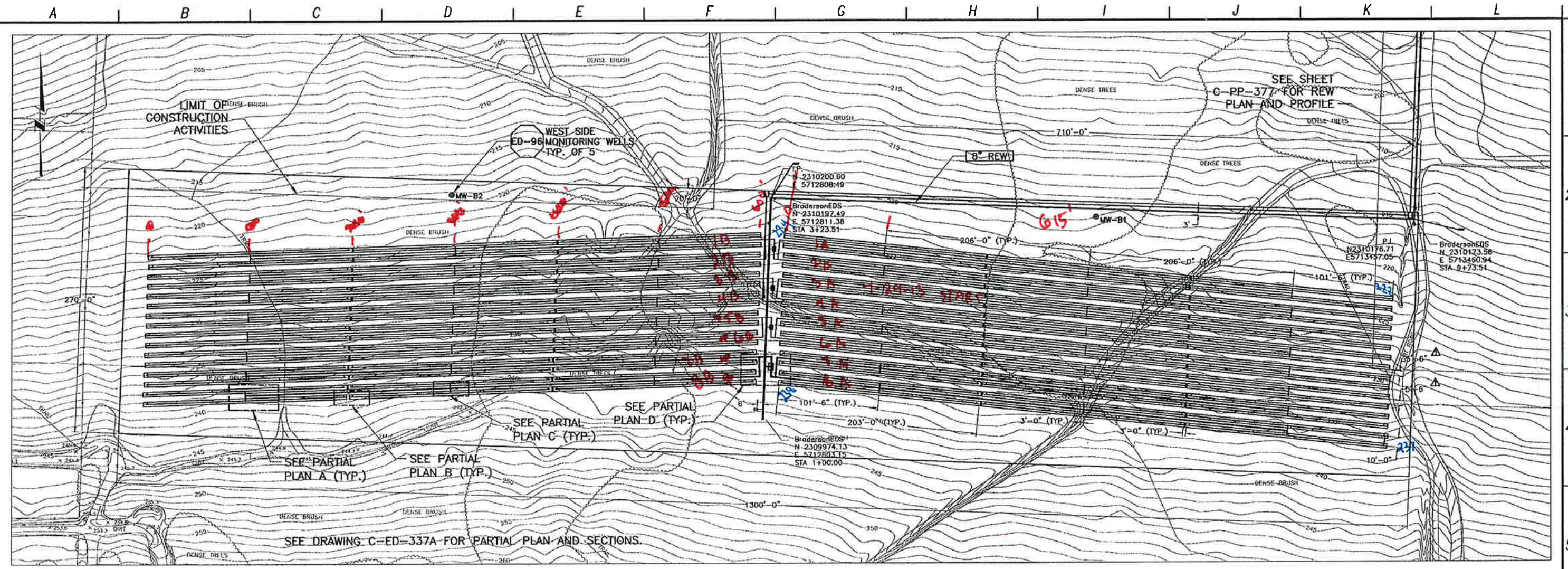


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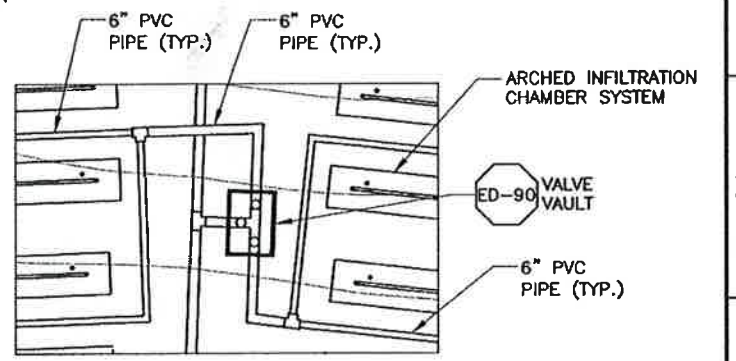
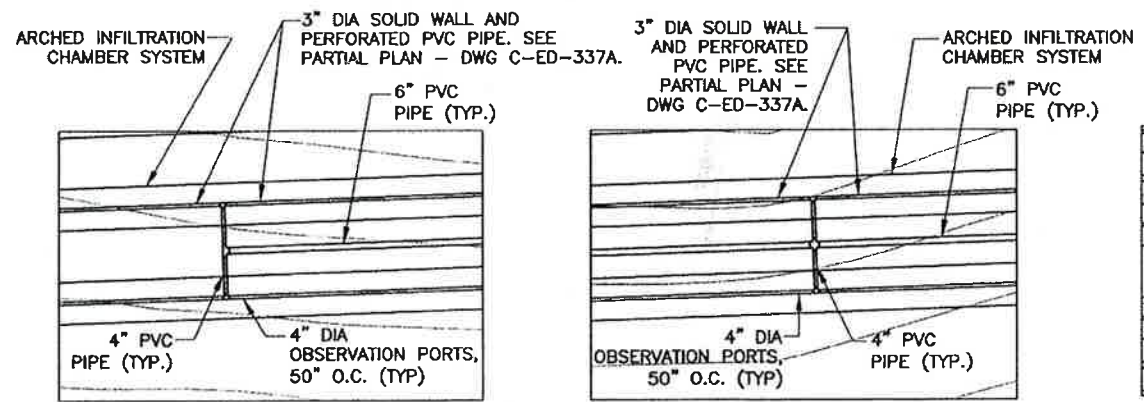
LOS OSOS WASTEWATER COLLECTION SYSTEM
PLAN AND PROFILE - FM
LOS OSOS VALLEY ROAD
STA 428+00 TO STA 439+51.17

PROJECT NO. 42502-83120
FILE NAME: C-PP-413
SHEET NO.
C-PP-413.3

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BRODERSON EDS PLAN
SCALE: 1"=50'



NOTE:
ALL TREES, SHRUBS, AND THEIR ROOT STRUCTURES SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR DURING THE CLEARING AND GRUBBING OF THE SITE. EUCALYPTUS TREES TO BE REMOVED BETWEEN SEPT. 1 AND FEB. 1, IF POSSIBLE. COORDINATE TREE REMOVAL WITH COUNTY BIOLOGIST AS ADDITIONAL EUCALYPTUS TREES SOUTH OF THE LEACHFIELD AREA ARE TO BE REMOVED AS INDICATED IN THE PROJECT'S HABITAT MANAGEMENT PLAN. TREES REMOVED SHOULD BE CHIPPED AND STORED ON SITE FOR FUTURE USE AS REVEGETATION MULCH.

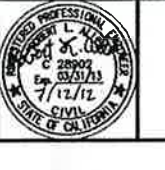
PARTIAL PLAN A
SCALE: 1"=10'

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	7/2012	LLB	RLA	CONFORMED
2	8/07/12	LLB	RLA	ADDENDUM
3	5/24/12	LLB	RLA	ADDENDUM #2

DESIGNED BY: RLA
DRAWN BY: MAR
CHECKED BY: RLA
DATE: APRIL 2012

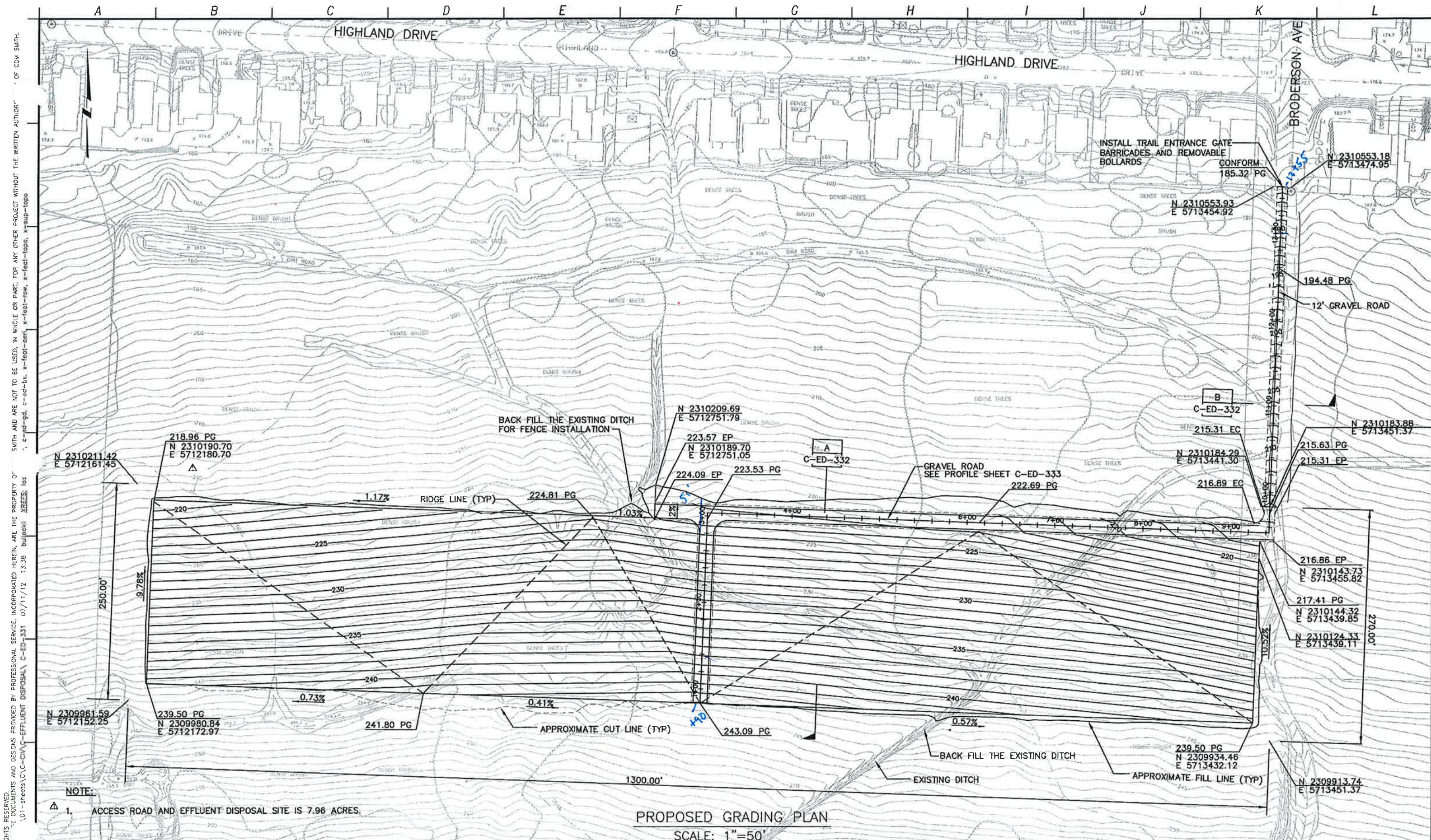


0 1/2 1
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LOS OSOS WASTEWATER COLLECTION SYSTEM
EFFLUENT DISPOSAL SYSTEM
BRODERSON EDS PLANS

PROJECT NO. 42502-83120
FILE NAME: C-ED-330
SHEET NO.
C-ED-330



NOTE:
 1. ACCESS ROAD AND EFFLUENT DISPOSAL SITE IS 7.96 ACRES.

PROPOSED GRADING PLAN
 SCALE: 1"=50'

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REV. NO.	DATE	DRWN	CHKD	REMARKS
7/2012	LLB	RLA	CONFORMED	
5/29/12	LLB	RLA	ADDENDUM	

DESIGNED BY: RLA
 DRAWN BY: MAR
 CHECKED BY: RLA
 DATE: APRIL 2012

CDM Smith
 2295 Gateway Oaks Drive, Suite 240
 Sacramento, CA 95833
 Tel: (916) 567-9900



0 1/2 1
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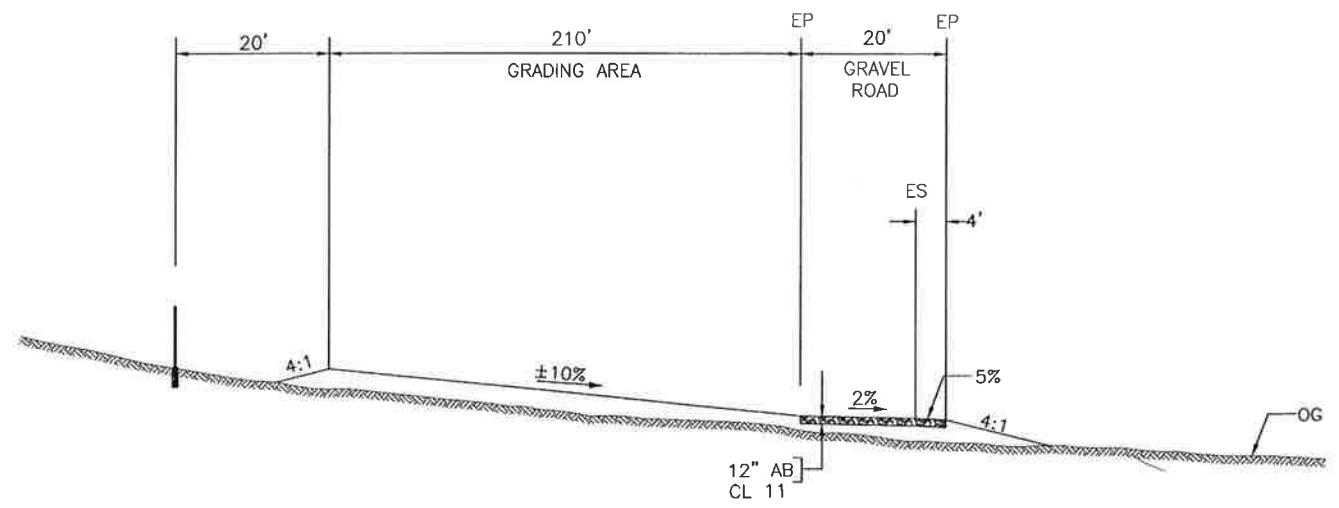
LOS OSOS WASTEWATER COLLECTION SYSTEM
 EFFLUENT DISPOSAL SYSTEM
 BRODERSON EDS
 SITE GRADING PLANS

PROJECT NO. 42502-83120
 FILE NAME: C-ED-331
 SHEET NO.
C-ED-331

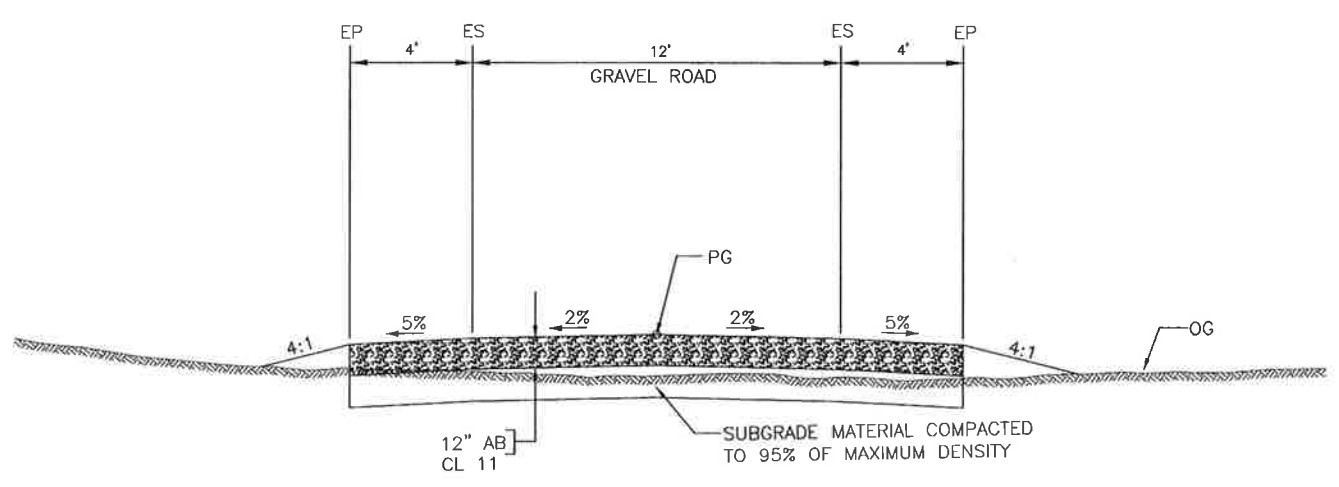
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A B C D E F G H I J K L

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SECTION A-A
N.T.S.
STA 4+20



SECTION B-B
N.T.S.
STA 11+00

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: RLA
 DRAWN BY: MAR
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 DATE: APRIL 2012

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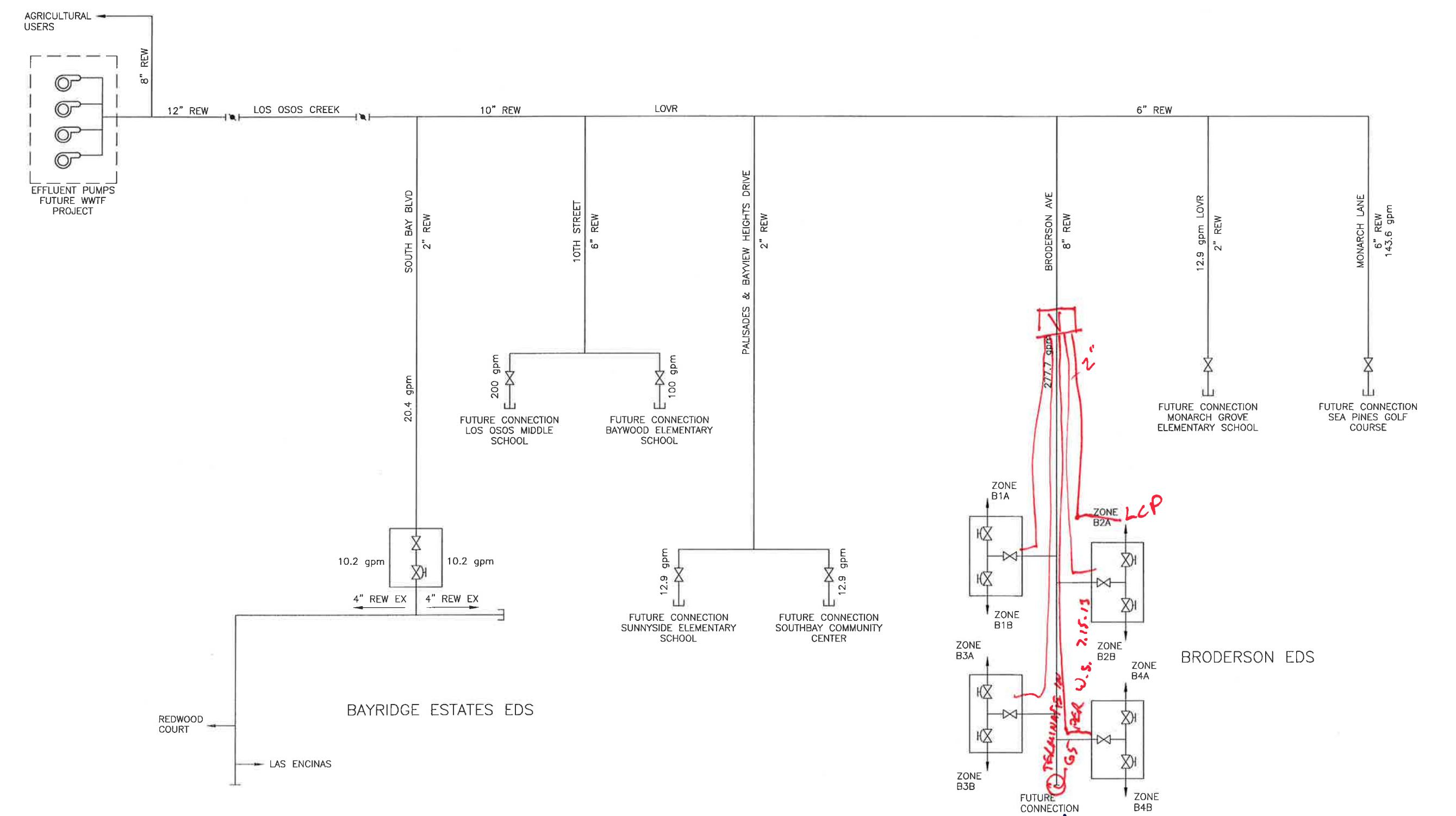
LOS OSOS WASTEWATER COLLECTION SYSTEM
 EFFLUENT DISPOSAL SYSTEM
 BRODERSON EDS
 SECTIONS

PROJECT NO. 42502-83120
 FILE NAME: C-ED-332
 SHEET NO.
C-ED-332

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A B C D E F G H I J K L

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REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: RLA
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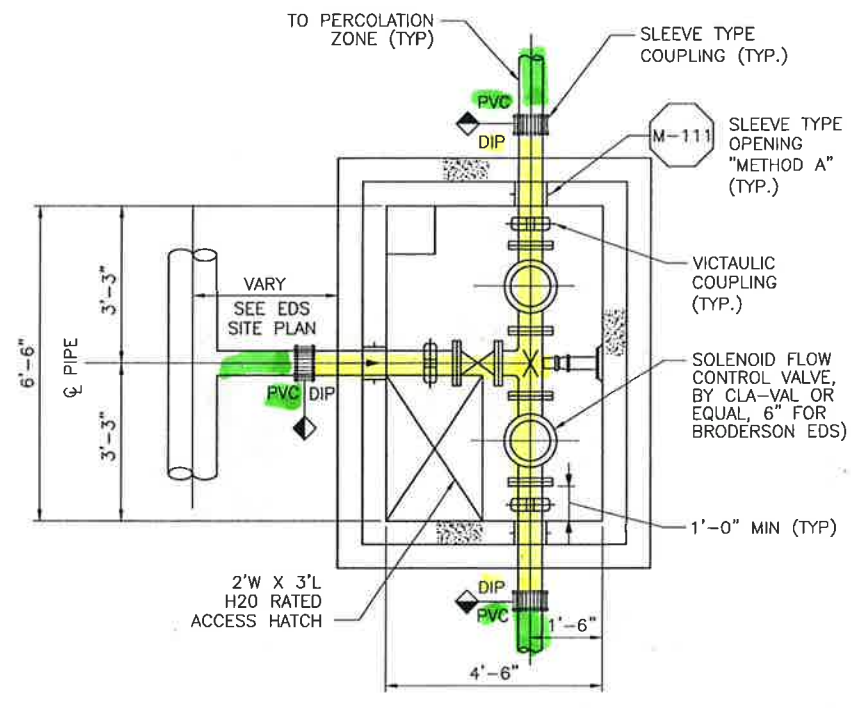


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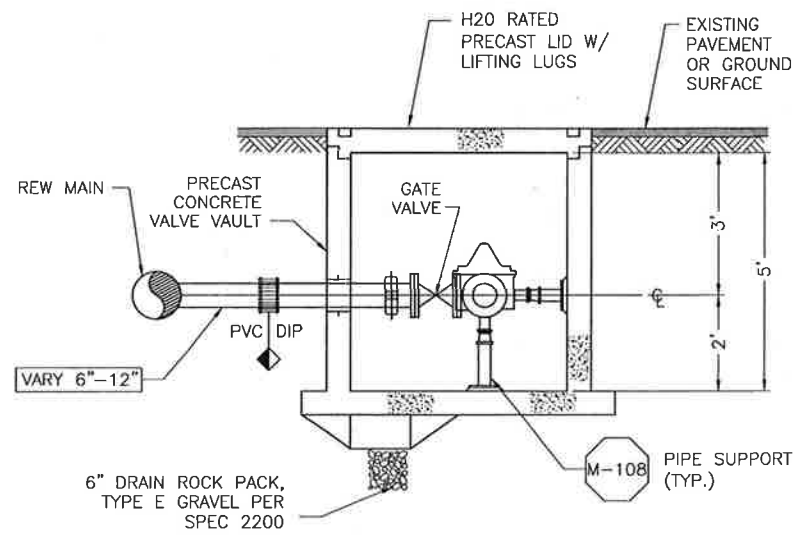
LOS OSOS WASTEWATER COLLECTION SYSTEM
EFFLUENT DISPOSAL SYSTEM
EDS SCHEMATIC DIAGRAM

PROJECT NO. 42502-B3120
 FILE NAME: C-ED-334
 SHEET NO.
C-ED-334

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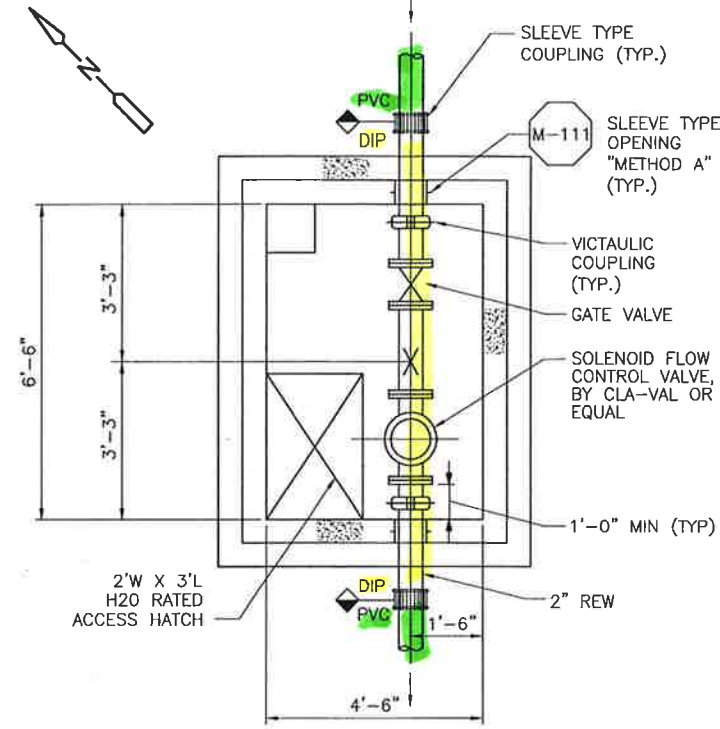


PLAN

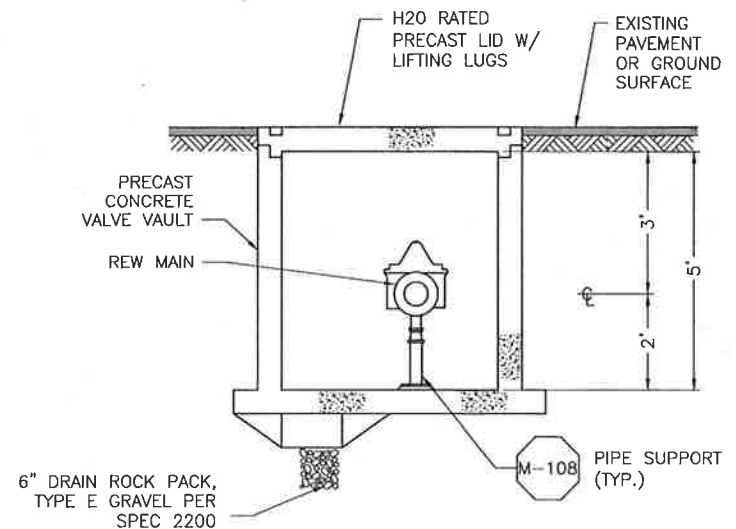


SECTION

EDS VALVE VAULT
N.T.S. ED-90

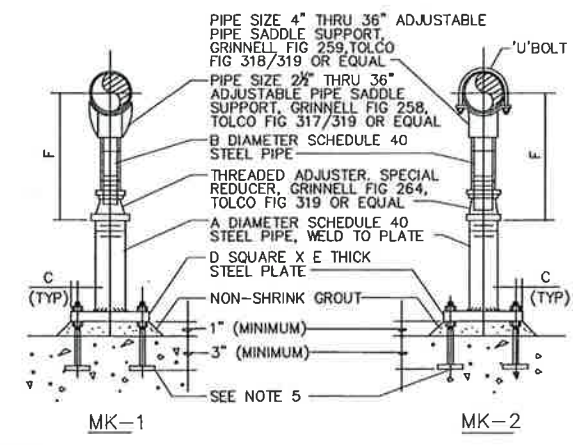


PLAN



SECTION

VALVE VAULT
N.T.S. ED-91



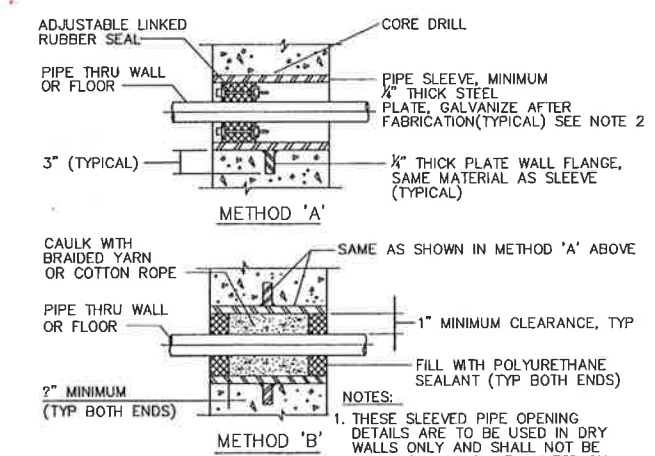
- NOTES:**
- FOR ADDITIONAL REQUIREMENTS SEE SPEC SECTION 'PIPE SUPPORTS'.
 - GALVANIZE ALL PARTS AFTER FABRICATION.
 - WHERE PIPE SUPPORT OCCURS ON GRADE REFER TO STRUCTURAL DRAWINGS FOR DETAILS.
 - THIS PIPE SUPPORT IS LIMITED TO PIPE FROM 2 1/2" DIAMETER TO 36" DIAMETER INCLUSIVE.
 - GALVANIZED ANCHOR BOLT OR CONCRETE ANCHOR WITH TWO NUTS AND ONE LOCKWASHER. PROVIDE BAR 4 X 1/2 X 4" WELDED TO BOLT. (TYP OF 4) SEE SPECIFICATIONS.

NOMINAL PIPE SIZE	DIMENSIONS IN INCHES					
	A	B	C	D	E	F (APPROX) (MINIMUM) (MAXIMUM)
2 1/2	2	1 1/2	1	6	3/8	7 1/2 11 1/2
3	2	1 1/2	1	6	3/8	7 3/4 11 3/4
3 1/2	2	1 1/2	1	6	3/8	7 7/8 12 1/8
4	3	2 1/2	1 1/2	7 1/2	1/2	10 1/4 14 1/4
6	3	2 1/2	1 1/2	7 1/2	1/2	11 1/4 16 1/4
8	3	2 1/2	1 1/2	7 1/2	1/2	13 3/8 18 3/8
10	3	2 1/2	1 1/2	7 1/2	1/2	14 3/8 19 3/8
12	3	2 1/2	1 1/2	7 1/2	1/2	15 3/8 20 3/8
14	4	3	1 1/2	9	3/4	18 3/8 23 3/8
16	4	3	1 1/2	9	3/4	19 3/8 24 3/8
18	6	4	1 1/2	11	3/4	22 3/8 26 3/8
20	6	4	1 1/2	11	3/4	23 3/8 27 3/8
24	6	4	1 1/2	11	3/4	26 3/8 31
30	6	4	1 1/2	11	3/4	29 3/8 34 3/8
32	6	4	1 1/2	11	3/4	30 3/8 35 3/8
36	6	4	1 1/2	11	3/4	32 3/8 37 3/8

* SEE MANUFACTURER

ADJUSTABLE PIPE SUPPORT WITH OR WITHOUT 'U' BOLT M-108 REV 011402

(FOR PIPE 36" DIAMETER AND SMALLER)



- NOTES:**
- THESE SLEEVED PIPE OPENING DETAILS ARE TO BE USED IN DRY WALLS ONLY AND SHALL NOT BE USED FOR WALLS WITH WATER ON ONE OR BOTH SIDES.
 - SLEEVES ARE NOT REQUIRED IN CORE DRILLED WALLS, PENETRATIONS THROUGH EXISTING WALLS, OR FLOORS.

SLEEVED PIPE OPENING M-111

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: RLA
 DRAWN BY: MAR
 CHECKED BY: RLA
 DATE: APRIL 2012

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0 1/2 1

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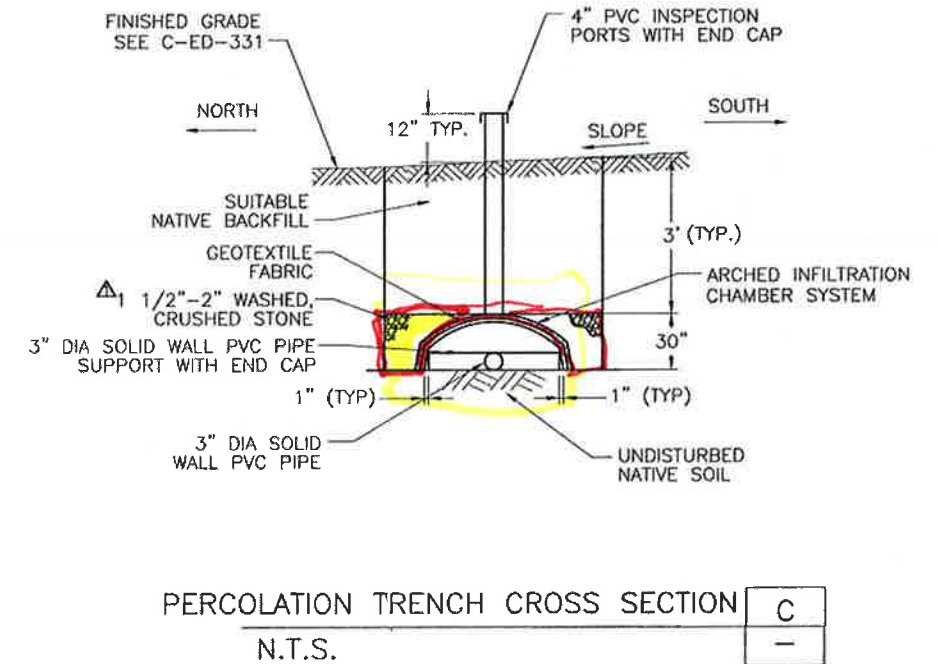
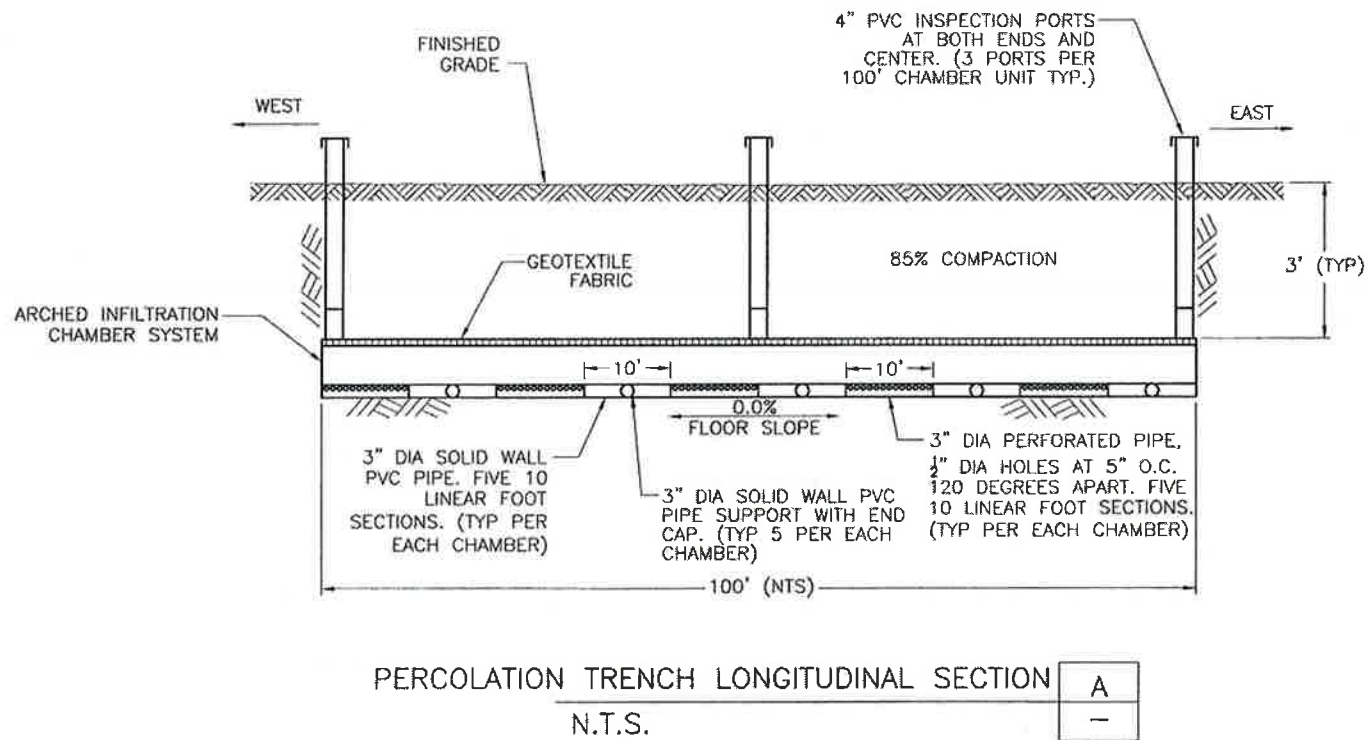
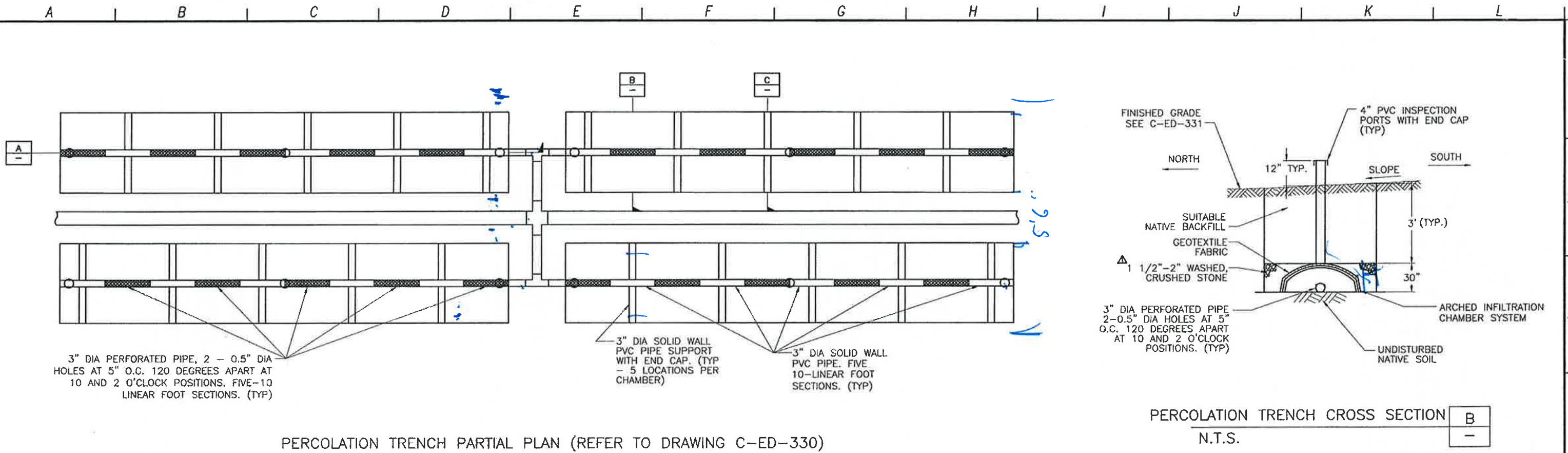
PROFESSIONAL SEAL
 CIVIL ENGINEER
 STATE OF CALIFORNIA
 No. 28902
 Exp. 03/31/13

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LOS OSOS WASTEWATER COLLECTION SYSTEM
EFFLUENT DISPOSAL SYSTEM
 EDS SECTIONS AND DETAILS 1

PROJECT NO. 42502-83120
 FILE NAME: C-ED-337
 SHEET NO.
C-ED-337

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NOTE: ALTERNATE SECTIONS OF SOLID WALL AND PERFORATED PIPE IN CHECKERBOARD PATTERN FOR EACH ROW OF CHAMBERS.

REV. NO.	DATE	DRWN	CHKD	REMARKS
7/2012	LLB	RLA	CONFORMED	
5/24/12	LLB	RLA	ADDENDUM #2	

DESIGNED BY: RLA
 DRAWN BY: MAR
 CHECKED BY: RLA
 DATE: APRIL 2012



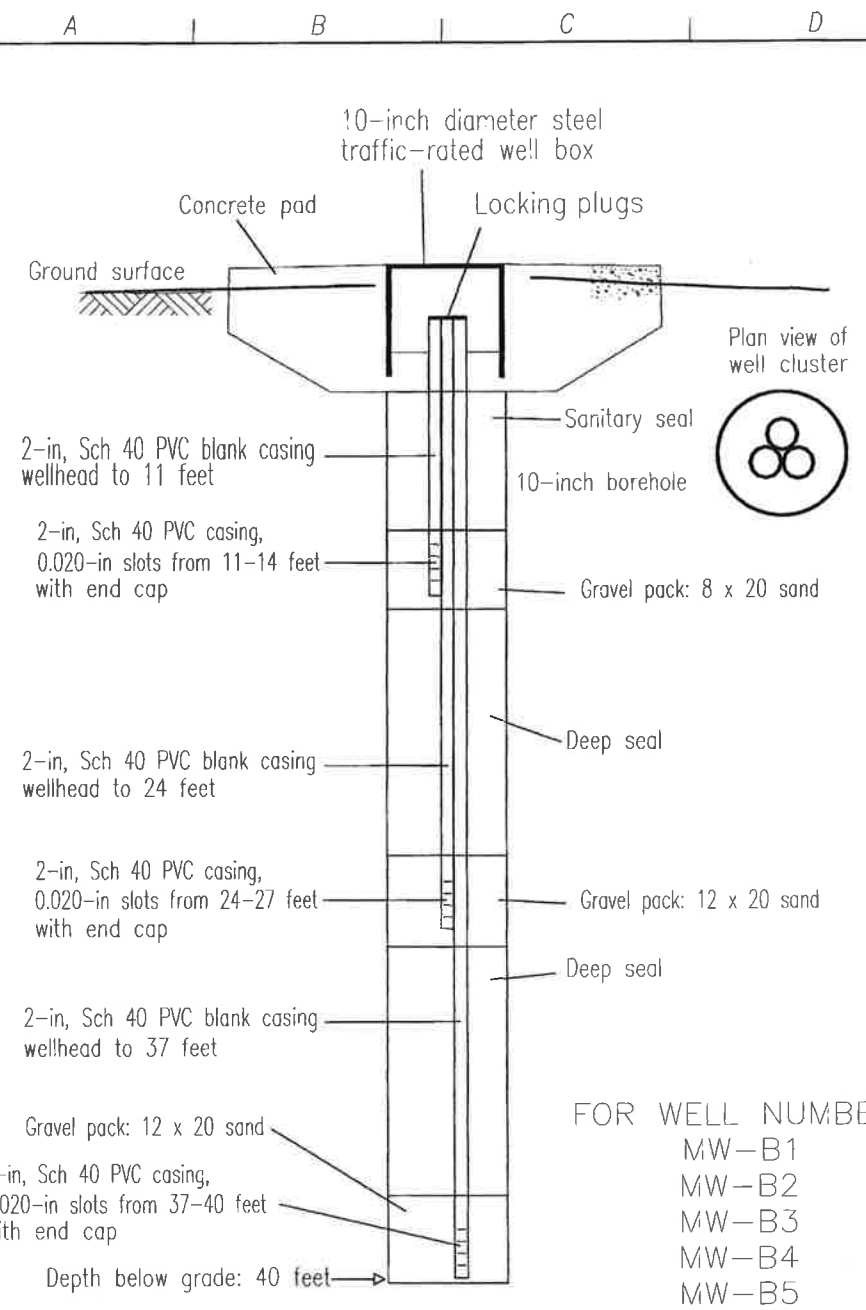
0 1/2 1
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LOS OSOS WASTEWATER COLLECTION SYSTEM
 EFFLUENT DISPOSAL SYSTEM
 EDS SECTIONS AND DETAILS 1A

PROJECT NO. 42502-83120
 FILE NAME: C-ED-337A
 SHEET NO.
 C-ED-337A

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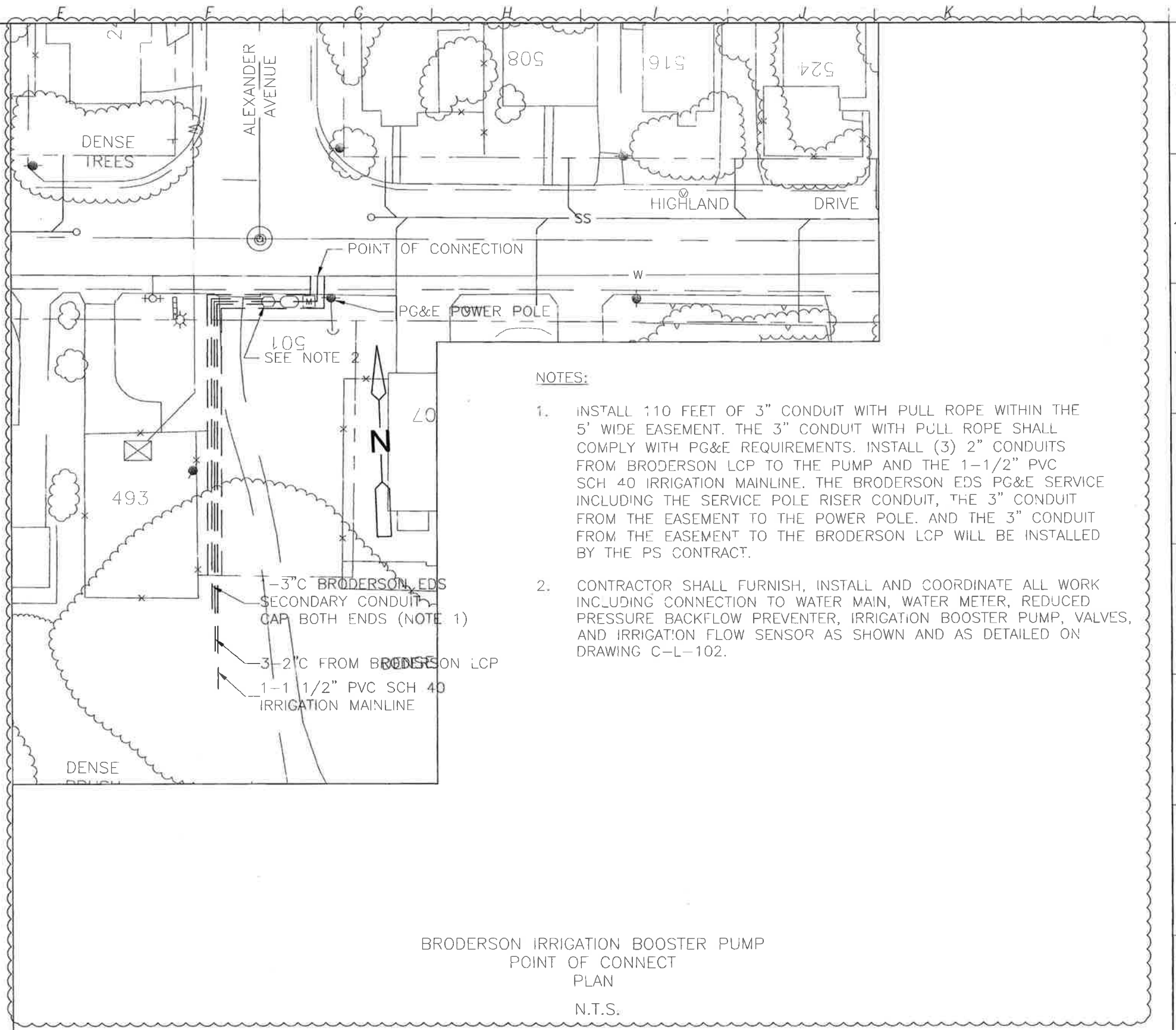


FOR WELL NUMBER:
 MW-B1
 MW-B2
 MW-B3
 MW-B4
 MW-B5

Cleath & Associates

NOTE: FOR LOCATION OF THESE WELLS SEE SHEET C-G-007.

WEST SIDE MONITORING WELLS
 N.T.S. ED-96



NOTES:

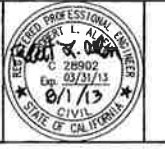
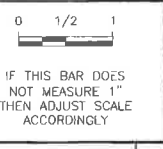
1. INSTALL 110 FEET OF 3" CONDUIT WITH PULL ROPE WITHIN THE 5' WIDE EASEMENT. THE 3" CONDUIT WITH PULL ROPE SHALL COMPLY WITH PG&E REQUIREMENTS. INSTALL (3) 2" CONDUITS FROM BRODERSON LCP TO THE PUMP AND THE 1-1/2" PVC SCH 40 IRRIGATION MAINLINE. THE BRODERSON EDS PG&E SERVICE INCLUDING THE SERVICE POLE RISER CONDUIT, THE 3" CONDUIT FROM THE EASEMENT TO THE POWER POLE, AND THE 3" CONDUIT FROM THE EASEMENT TO THE BRODERSON LCP WILL BE INSTALLED BY THE PS CONTRACT.
2. CONTRACTOR SHALL FURNISH, INSTALL AND COORDINATE ALL WORK INCLUDING CONNECTION TO WATER MAIN, WATER METER, REDUCED PRESSURE BACKFLOW PREVENTER, IRRIGATION BOOSTER PUMP, VALVES, AND IRRIGATION FLOW SENSOR AS SHOWN AND AS DETAILED ON DRAWING C-L-102.

BRODERSON IRRIGATION BOOSTER PUMP
 POINT OF CONNECT
 PLAN
 N.T.S.

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	8/01/13	LLB	RLA	RFJ 106 - RELOCATE IRRIGATION PUMP

DESIGNED BY: RLA
 DRAWN BY: MAR
 CHECKED BY: RLA
 DATE: APRIL 2012

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LOS OSOS WASTEWATER COLLECTION SYSTEM
 EFFLUENT DISPOSAL SYSTEM
 SECTIONS AND DETAILS 3

PROJECT NO. 42502-83120
 FILE NAME: C-ED-339
 SHEET NO.
 C-ED-339.1

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A B C D E F G H I J K L

A. GENERAL NOTES

1. ALL STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE CIVIL, MECHANICAL, ARCHITECTURAL, ELECTRICAL, INSTRUMENTATION AND SHOP DRAWINGS AND THE PROJECT SPECIFICATIONS.
2. ALL CONSTRUCTION SHALL CONFORM TO THE 2010 EDITION OF THE CALIFORNIA BUILDING CODE (CBC).
3. SEE ALL OTHER PROJECT DOCUMENTS FOR REGLETS, PIPE SLEEVES, CONDUITS OR OTHER ITEMS TO BE EMBEDDED OR PASSED THROUGH CONCRETE STRUCTURES.
4. PENETRATIONS THROUGH WALLS OR SLABS MAY NOT BE SHOWN ON STRUCTURAL DRAWINGS - REFER TO ASSOCIATED DOCUMENTS FOR LOCATIONS.
5. THE MINIMUM CLEAR DISTANCE BETWEEN PIPE OR CONDUIT PENETRATIONS SHALL BE 3 TIMES THE DIAMETER OF THE PENETRATION OR 8", WHICHEVER IS SMALLER.
6. NO STRUCTURAL MEMBERS SHALL BE CUT FOR PIPES, DUCTS, ETC., UNLESS SPECIFICALLY DETAILED OR APPROVED IN WRITING BY THE ENGINEER.
7. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED SIZES.
8. USE PERTINENT STANDARD DETAILS SHOWN, EVEN THOUGH THEY MAY NOT BE CALLED OUT AT LOCATIONS WHERE THEY APPLY.
9. UNLESS MODIFIED BY THIS NOTE, SPECIAL INSPECTION BY ICC CERTIFIED INSPECTORS SHALL BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN SECTION 1704 OF THE CALIFORNIA BUILDING CODE, (CBC). THE FOLLOWING ITEMS, AS A MINIMUM, SHALL RECEIVE SPECIAL INSPECTION:
 - a. REINFORCING STEEL: REINFORCING STEEL SHALL BE INSPECTED PRIOR TO CLOSING THE FORMS OR DELIVERY OF CONCRETE TO JOB SITE.
 - b. WATERSTOP: THE INSPECTOR SHALL INSPECT ALL WATERSTOP INSTALLATIONS PRIOR TO CONCRETE PLACEMENT.
 - c. CAST-IN BOLTS INSTALLED IN CONCRETE: BOLTS SHALL BE INSPECTED PRIOR TO AND DURING CONCRETE PLACEMENT.
 - d. CONCRETE: THE INSPECTOR SHALL SUPERVISE THE PREPARATION OF COMPRESSION TEST SPECIMENS AND THE PLACEMENT OF REINFORCED CONCRETE.
 - e. ADHESIVE ANCHORS OR DOWELS INSTALLED IN CONCRETE: AT A MINIMUM, THE INSPECTOR SHALL PERIODICALLY VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, HOLE DIMENSIONS, HOLE CLEANING PROCEDURES, ANCHOR SPACING, EDGE DISTANCES, CONCRETE THICKNESS ANCHOR EMBEDMENT, TIGHTENING TORQUE, AND ADHESIVE EXPIRATION DATE; THE INSPECTOR SHALL VERIFY ANCHOR INSTALLATION HAS BEEN PERFORMED IN COMPLIANCE WITH THE MANUFACTURER'S PUBLISHED INSTRUCTIONS AND THE APPROPRIATE ICC EVALUATION SERVICE REPORT.
 - f. EXPANSION ANCHORS INSTALLED IN CONCRETE: THE INSPECTOR SHALL PERIODICALLY VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, HOLE DIMENSIONS, ANCHOR SPACING, EDGE DISTANCES, CONCRETE MEMBER THICKNESS, ANCHOR EMBEDMENT, AND TIGHTENING TORQUE. THE INSPECTOR SHALL VERIFY ANCHOR INSTALLATION HAS BEEN PERFORMED IN COMPLIANCE WITH THE MANUFACTURER'S PUBLISHED INSTRUCTIONS AND THE APPROPRIATE ICC EVALUATION SERVICE REPORT.
9. WELDING: CONTINUOUS VISUAL INSPECTION SHALL BE PROVIDED FOR ALL STRUCTURAL WELDING DONE IN THE FIELD.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFELY SUPPORTING THE STRUCTURE DURING CONSTRUCTION. STRUCTURES HAVE BEEN DESIGNED FOR OPERATIONAL LOADS ON THE COMPLETED STRUCTURES. DURING CONSTRUCTION, STRUCTURES SHALL BE SUPPORTED BY BRACING OR SHORING WHEREVER EXCESSIVE CONSTRUCTION LOADS MAY OCCUR.

B. DESIGN LOADS

1. GRAVITY: PUMP STATION AND VAULT ROOF, LIVE LOAD HS-20
2. LATERAL: LATERAL LOADS SHALL COMPLY WITH THE REQUIREMENTS OF CHAPTER 16 OF THE 2010 CBC, UNLESS OTHERWISE NOTED. THE FOLLOWING DESIGN PARAMETERS SHALL BE USED.

WIND (2010 CBC): 85 MPH, EXPOSURE D, $I_w = 1.15$ (UNO)

OCCUPANCY CATEGORY: IV

B. DESIGN LOADS CONT

SEISMIC DESIGN CATEGORY D
SEISMIC COEFFICIENTS (2010 CBC): SEE TABLE BELOW

FACILITIES	S_{DS}^*	S_{D1}^*
SUNNY OAKS	0.982	0.886
ODOR CONTROL VAULTS	0.984	0.894

* VALUE IS BASED ON THE HIGHER OF SITE CLASS D OR F (SITE CLASS F IS EQUIVALENT TO SITE CLASS E ASSUMING NO SITE MITIGATION IS PERFORMED TO ADDRESS LIQUEFACTION)

IMPORTANCE FACTOR: $I = 1.5$, $I_p = 1.5$

C. GEOTECHNICAL INFORMATION

1. ALLOWABLE BEARING PRESSURE SHALL BE 2000 PSF WITH A 50% ALLOWABLE INCREASE FOR LOAD COMBINATIONS INCLUDING SEISMIC OR WIND LOADS.
2. THE COEFFICIENT OF FRICTION SHALL BE 0.4.
3. ADDITIONAL GEOTECHNICAL DESIGN PARAMETERS ARE IN GEOTECHNICAL REPORT TITLED "GEOTECHNICAL REPORT LOS OSOS WASTEWATER PROJECT LOS OSOS COMMUNITY SERVICES DISTRICT SAN LUIS OBISPO COUNTY, CALIFORNIA" PREPARED BY FUGRO WEST, INC. DATED MARCH 9, 2004 AND "ADDENDUM TO GEOTECHNICAL REPORT FOR LOS OSOS WASTEWATER PROJECT" PREPARED BY FUGRO CONSULTANTS, INC. DATED OCTOBER 24, 2011.

D. CAST-IN-PLACE CONCRETE

1. REINFORCED CONCRETE SHALL CONFORM TO ACI 318-08 AND 350-06.
2. MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS, UNLESS OTHERWISE NOTED ON THE DRAWINGS:

STRUCTURAL CONCRETE (CLASS E):	$f'_c = 5000$ psi
SEAL SLAB (CLASS D):	$f'_c = 4000$ psi
SIDEWALKS, PAVEMENT, CONCRETE FILL, ENCASEMENT (CLASS B):	$f'_c = 3000$ psi
3. REINFORCING STEEL SHALL CONFORM TO THE LATEST EDITION OF ASTM SPECIFICATION A615 GRADE 60 AS SPECIFIED IN SPECIFICATION SECTION 03200.
4. REINFORCING STEEL FABRICATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF CRSI MANUAL OF STANDARD PRACTICE.
5. REINFORCING SHALL HAVE THE FOLLOWING CLEAR CONCRETE COVER, UNLESS OTHERWISE NOTED ON THE DRAWINGS.

CONDITION	COVER
UNFORMED SURFACES IN CONTACT WITH EARTH	3"
FORMED SURFACES EXPOSED TO EARTH, WATER, & WEATHER	2"
BOTTOM SURFACES FOR SLAB OVER WATER	2"
CONCRETE SURFACES FOR DRY CONDITIONS:	
WALLS AND SLABS	1 1/2"
BEAMS:	
PRIMARY REINFORCEMENT	2"
STIRRUPS AND TIES	1 1/2"

6. SPLICED BARS SHALL HAVE A MINIMUM LAP AS SPECIFIED IN LATEST EDITION OF THE ACI 315 DETAILING MANUAL AND ACI 318 CHAPTER 21 UNLESS OTHERWISE NOTED IN CONTRACT DOCUMENTS. ALL SPLICES SHALL BE CLASS B TENSION SPLICES AND BE IN ACCORDANCE WITH THE STANDARD DETAILS, UNO.
7. CONSTRUCTION JOINTS SHALL NOT BE PLACED AT LOCATIONS OTHER THAN THOSE SHOWN ON THE DRAWINGS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
8. ALL EXPOSED CORNERS OF CONCRETE SHALL HAVE 3/4" CHAMFER, UNLESS NOTED OTHERWISE.
9. WRITTEN SPACING AND LOCATION OF REINFORCING SHALL TAKE PRECEDENCE OVER DEPICTED SPACING AND LOCATION.

E. STRUCTURAL STEEL

1. STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992.
2. OTHER STRUCTURAL STEEL SHAPES, PLATES AND BARS SHALL CONFORM TO ASTM A36.
3. HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A500 GRADE B.
4. STRUCTURAL STEEL SHALL BE FABRICATED, ERECTED, AND CONNECTED IN COMPLIANCE WITH THE LATEST AISC SPECIFICATION FOR STRUCTURAL BUILDINGS.
5. SHOP PAINTING AND FIELD PAINTING, IF REQUIRED, SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS.
6. SEE SPECIFICATION SECTION 05500 FOR ADDITIONAL REQUIREMENTS.

F. ANCHORS AND ADHESIVE DOWELS FOR CONCRETE

1. CAST-IN ANCHORS SHALL BE HEADED BOLTS CONFORMING TO ASTM F1554 AND GALVANIZED IN ACCORDANCE WITH ASTM A153, UNO.
2. POST-INSTALLED ANCHORS AND ADHESIVE DOWELS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE APPROPRIATE ICC EVALUATION SERVICE REPORTS. ONLY ANCHORS OR ADHESIVES WITH CURRENT ICC EVALUATION SERVICE REPORTS AVAILABLE FOR DOWNLOAD ON THE ICC WEBSITE SHALL BE USED. SEE SPECIFICATION SECTION 05500 FOR ADDITIONAL INFORMATION.
3. THE CONTRACTOR SHALL LOCATE EXISTING CONCRETE REINFORCEMENT USING NON-DESTRUCTIVE METHODS PRIOR TO DRILLING HOLES FOR POST-INSTALLED ANCHORS OR DOWELS. ADJUST SPACING OF ANCHORS TO MISS EXISTING REINFORCING. THE TOTAL NUMBER OF ANCHORS PROVIDED SHALL BE EQUAL TO WHAT IS SHOWN ON THE DRAWINGS OR EQUIPMENT ANCHORAGE SHOP DRAWINGS.
4. POST-INSTALLED ANCHORS SHALL NOT BE USED FOR VIBRATORY LOADS, UNO.

G. CONCRETE JOINTS

1. WATERSTOPS SHALL BE PROVIDED IN JOINTS WHERE SHOWN ON THE DRAWINGS AND WHERE INDICATED BY THE FOLLOWING:
 - a. IN ALL JOINTS IN WALLS AND SLABS OF LIQUID CONTAINMENT STRUCTURES TO PREVENT EXFILTRATION OF LIQUID INTO SOIL OR DRY AREAS OF THE STRUCTURE.
 - b. IN ALL BELOW-GRADE JOINTS IN WALLS AND SLABS TO PREVENT INFILTRATION OF GROUNDWATER INTO STRUCTURE.
2. MATERIAL FOR WATERSTOPS SHALL BE AS NOTED ON THE DRAWINGS AND IN ACCORDANCE WITH THE SPECIFICATIONS.
3. INTENTIONALLY ROUGHEN THE SURFACES OF CONSTRUCTION JOINTS AND WHERE NEW CONCRETE CONTACTS EXISTING CONCRETE TO A CONCRETE SURFACE PROFILE (CSP) 9 PER ICRI GUIDELINE 03732 WITH 1/4" MINIMUM AMPLITUDE. THIS ROUGHENED SURFACE MAY BE ACCOMPLISHED BY RAKING THE PLASTIC CONCRETE OR BY BUSHHAMMERING OR CHISELING HARDENED CONCRETE SURFACES. THOROUGHLY CLEAN JOINT SURFACES OF LOOSE OR WEAKENED MATERIALS BY WATERBLASTING OR SANDBLASTING. SATURATE SURFACE WITH WATER 12 HOURS BEFORE AND AGAIN IMMEDIATELY PRIOR TO CONCRETE PLACEMENT.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: CNO
DRAWN BY: TVN
CHECKED BY: LGS
DATE: APRIL 2012

CDM Smith
2295 Gateway Oaks Drive, Suite 240
Sacramento, CA 95833
Tel: (916) 567-9900



0 1/2 1
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DIGALERT
DIAL TOLL FREE 1-800-642-2444
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM
STRUCTURAL NOTES 1

PROJECT NO. 42502-83120
FILE NAME: C-S-001
SHEET NO.
C-S-001

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H. PRECAST CONCRETE

1. THE SUPPLIER OF THE PRECAST CONCRETE UNITS SHALL DESIGN AND PROVIDE DRAWINGS AND CALCULATIONS STAMPED AND SIGNED BY A PROFESSIONAL CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA. THE DESIGN SHALL BE PER THE SPECIFICATIONS AND AS SHOWN IN THE DRAWINGS.
2. THE SUPPLIER SHALL COORDINATE WITH THE CONTRACTOR FOR THE SIZE AND LOCATION OF ALL ROOF AND WALL PENETRATIONS PRIOR TO FABRICATION.

I. SUBMERSIBLE PUMP STATION

1. REINFORCED CONCRETE PIPE AND DESIGN FOR THE CAISSON CONSTRUCTION PUMP STATIONS SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02612.
2. PVC LINING FOR THE PUMP STATION WALLS SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02765.
3. CAISSON CONSTRUCTION SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02355.

J. DEFERRED SUBMITTALS

1. THE FOLLOWING PORTIONS OF THE PROJECT ARE DEFERRED SUBMITTAL ITEMS & HAVE NOT BEEN DESIGNED BY THE ENGINEER OF RECORD.
 - a) SUPPORT AND ANCHORAGE OF EQUIPMENT
 - b) PRECAST MANHOLES
 - c) PRECAST VAULTS
 - d) PRECAST REINFORCED CONCRETE PIPE CAISSONS
 - e) HS-20 ACCESS HATCHES
2. CALCULATIONS AND DRAWINGS OF DEFERRED SUBMITTAL ITEMS SHALL BE STAMPED AND SIGNED BY A PROFESSIONAL CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.
3. DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE ENGINEER OF RECORD HAS REVIEWED THE SUBMITTAL DOCUMENTS AND INDICATED THAT THEY HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE STRUCTURE.

K. ABBREVIATION NOTES

1. ABBREVIATIONS AND DESIGNATIONS FOR STEEL MEMBERS MAY BE FOUND IN THE CURRENT MANUAL OF STEEL CONSTRUCTION BY AISC.
2. WELDING SYMBOLS AND ABBREVIATIONS MAY BE FOUND IN AWS D1.1.
3. ABBREVIATIONS LISTED ARE FOR USE WITH STRUCTURAL DRAWINGS ONLY. SOME ABBREVIATIONS LISTED MAY NOT BE USED ON THE PLANS.

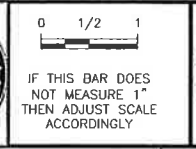
STRUCTURAL ABBREVIATIONS

∅	DIAMETER	LG	LONG
AB	ANCHOR BOLT	LLH	LONG LEG HORIZONTAL
ADDL	ADDITIONAL	LLV	LONG LEG VERTICAL
AL	ALUMINUM	LNTL	LINTEL
ALT	ALTERNATE(ING)	LONG.	LONGITUDINAL
APPROX	APPROXIMATE(LY)	LP	LOW POINT
ARND	AROUND	LT	LEFT
BGS	BELOW GROUND SURFACE	MATL	MATERIAL
BLDG	BUILDING	MAX	MAXIMUM
BLK	BLOCK(ING)	MFR	MANUFACTURER
BO	BOTTOM OF	MIN	MINIMUM
BOT	BOTTOM	MOL	MAXIMUM OPERATING LEVEL
BTWN	BETWEEN	MTL	METAL
CHKD	CHECKERED	(N)	NEW
CIRC	CIRCUMFERENTIAL	NOM	NOMINAL
CJ	CONSTRUCTION JOINT	NSG	NON-SHRINK GROUT
CJP	COMPLETE JOINT PENETRATION	NTS	NOT TO SCALE
CL, ☉	CENTERLINE	O/E	OR EQUAL
CTJ	CONTROL JOINT	OC	ON CENTER
CLR	CLEAR	OD	OUTSIDE DIAMETER
COL	COLUMN	O.F	OUTSIDE FACE
CONC	CONCRETE	OPNG(S)	OPENING(S)
CONN	CONNECTION	OPP	OPPOSITE
CONST	CONSTRUCTION	OPP HD	OPPOSITE HAND
CONT	CONTINUOUS	OPT	OPTION (AL)
CTR	CENTER (ED)	PJF	PREMOLDED JOINT FILLER
D	DEEP, DEPTH	PL	PLATE
DEMO	DEMOLITION	PREFAB	PRE-FABRICATED
DET	DETAIL	PT	POINT
DI	DUCTILE IRON	R	RISER
DIA	DIAMETER	RAD	RADIUS
DIAG	DIAGONAL	RD	ROOF DRAIN
DIM	DIMENSION	REF	REFERENCE / REFER
DL	DEAD LOAD	REINF	REINFORCE (D, ING)
DN	DOWN	REQD	REQUIRED
DO.	DITTO	REV	REVISION
DR	DRAIN	RO	ROUGH OPENING
DWG(S)	DRAWING(S)	RT	RIGHT
DWL(S)	DOWEL(S)	SECT	SECTION
EA	EACH	SHT	SHEET
EB	EXPANSION BOLT	SIM	SIMILAR
ECC	ECCENTRIC	SL	SLOPE
EF	EACH FACE	SP	SPACE (S, ED)
EL	ELEVATION	SPEC	SPECIFICATION, SPECIFIED
EMBED	EMBEDMENT	SQ	SQUARE
EQ	EQUAL (LY)	SST	STAINLESS STEEL
EQPT	EQUIPMENT	SSW	SIDE SEAM WELD
EQUIV	EQUIVALENT	STD	STANDARD
ES	EACH SIDE	STL	STEEL
ETC	ETCETERA	STRUC	STRUCTURE (S, URAL)
EW	EACH WAY	SYM	SYMMETRICAL
EXP	EXPANSION	T	TREAD (S)
EXST, (E)	EXISTING	T&B	TOP AND BOTTOM
EXT	EXTERIOR	TD	TRENCH DRAIN
f'c	CONCRETE COMPRESSIVE STRENGTH	THK	THICK (NESS)
FD	FLOOR DRAIN	T.O.	TOP OF
FDN	FOUNDATION	TOC	TOP OF CONCRETE
FIG	FIGURE	TOS	TOP OF STEEL
FIN	FINISH (ED)	T.O.W.	TOP OF WALL
FL	FLOOR	TRNSV	TRANSVERSE
FLEX	FLEXIBLE	TSW	TOP SEAM WELD
FTG	FOOTING	TYP	TYPICAL
GA	GAGE	UNO	UNLESS NOTED OTHERWISE
GALV	GALVANIZED	VB	VAPOR BARRIER
GALVS	GALVANIZED STEEL	VERT	VERTICAL
GR	GUARD RAIL	W	WIDE
GRTG	GRATING	W/	WITH
HDR	HEADER	W/O	WITHOUT
H	HEIGHT	WD	WIDTH / WOOD
HOR	HORIZONTAL	WP	WORKING POINT
HP	HIGH POINT	WPG	WATERPROOFING
HR	HANDRAIL	WS	WATERSTOP
HSB	HIGH STRENGTH BOLTS	WT	WEIGHT
ICC	INTERNATIONAL CODE COUNCIL	WWF	WELDED
ID	INSIDE DIAMETER	WIRE	FABRIC
I.F.	INSIDE FACE		
INT	INTERIOR		
INV	INVERT		
JT	JOINT		
JT FLR	JOINT FILLER		

DESIGNED BY:	CNO
DRAWN BY:	TVN
CHECKED BY:	LGS
DATE:	APRIL 2012

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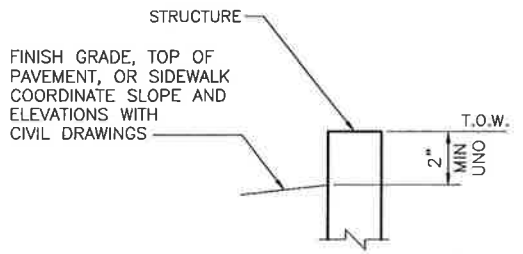
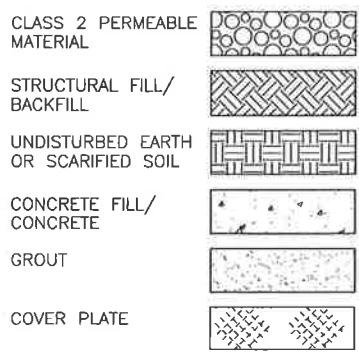
LOS OSOS WASTEWATER COLLECTION SYSTEM
STRUCTURAL NOTES 2

PROJECT NO. 42502-83120
 FILE NAME: C-S-002
 SHEET NO.
C-S-002

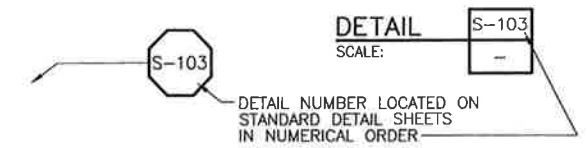
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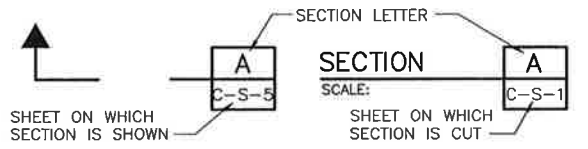
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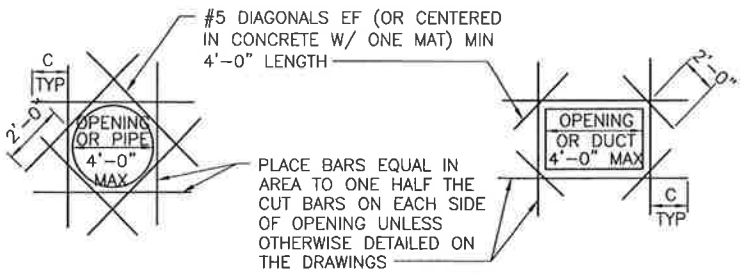
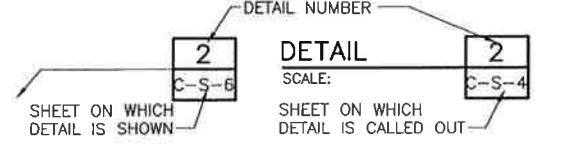
STRUCTURAL STANDARD DETAIL CALLOUT



SECTION CALLOUT



DETAIL CALLOUT



1. C = TENSION DEVELOPMENT LENGTH: PROVIDE STD HOOK IF FULL DEVELOPMENT LENGTH IS NOT POSSIBLE.
2. REINFORCING STEEL IS TO BE CARRIED ACROSS ALL CONSTRUCTION JOINTS.
3. DETAIL IS TYP FOR ALL OPENINGS GREATER THAN 10 INCHES IN CONCRETE WALLS AND SLABS UNLESS OTHERWISE DETAILED ON THE DRAWINGS.
4. EXTRA BARS ARE NOT REQUIRED AT AN OPENING EDGE PARALLEL TO AND WITHIN 6 INCHES OF A WALL OR BEAM, UNO.

EXTRA REINFORCEMENT AT CONCRETE OPENINGS



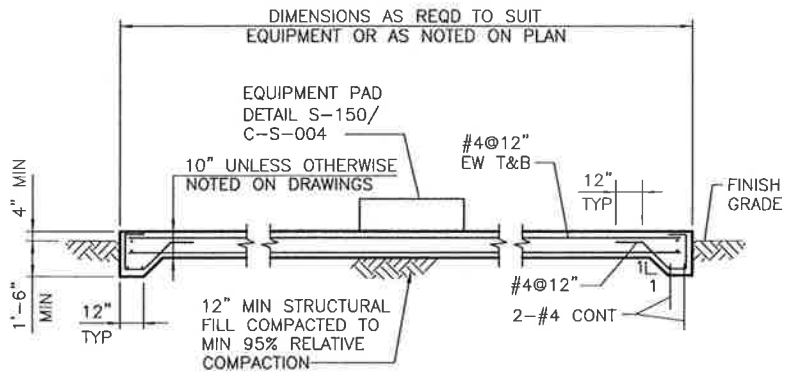
LAP SPLICE LENGTH IN CONCRETE



REINF	DEVELOPMENT LENGTH (INCHES)		LAP LENGTH (INCHES)	
	TOP BAR	OTHER	TOP BAR	OTHER
#3	20	15	26	20
#4	22	17	28	22
#5	27	21	35	27
#6	32	25	42	32
#7	38	29	49	38
#8	43	33	56	43
#9	48	37	63	48

NOTES:

1. TOP BAR IS ANY HORIZ BAR WITH MORE THAN 12" CONCRETE CAST IN ONE LIFT BENEATH IT. HORIZONTAL BARS MAY OCCUR IN WALL OR A SLAB.
2. PROVIDE LAP LENGTHS PER ABOVE TABLE AT ALL SPLICES.
3. SPLICES IN HORIZONTAL BARS SHALL BE STAGGERED.
4. UNLESS OTHERWISE DETAILED ON THE DRAWINGS, SPLICES IN TWO CURTAINS SHALL NOT OCCUR IN THE SAME LOCATION.
5. BASED ON ACI 318-08 CHAP. 12 AND 21.
6. COMPRESSIVE STRENGTH OF CONCRETE, f'c, IS 5,000 psi.



EXTERIOR EQUIPMENT SLAB
DETAIL S-114
 SCALE: NONE

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 DATE: APRIL 2012



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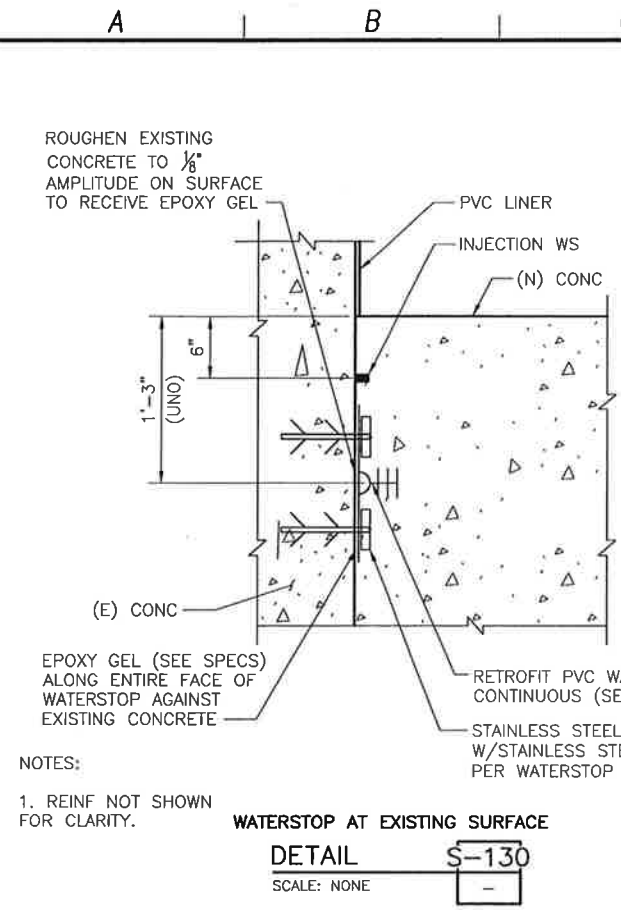


LOS OSOS WASTEWATER COLLECTION SYSTEM
STANDARD STRUCTURAL DETAILS 1

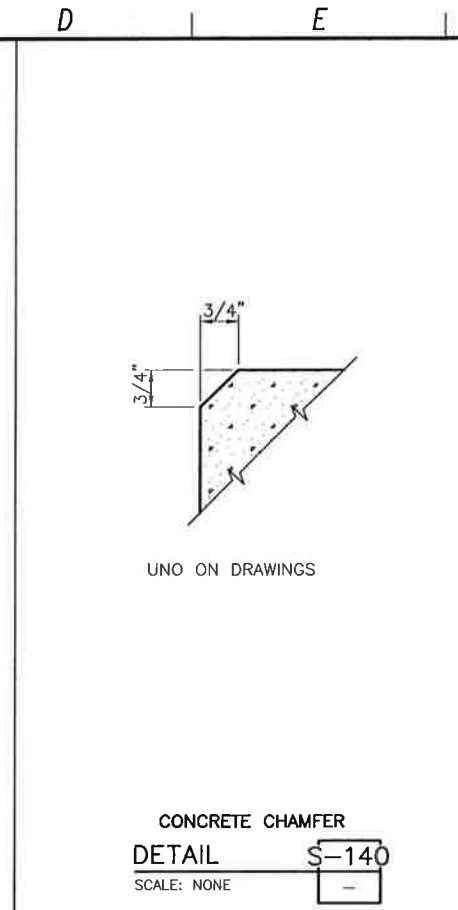
PROJECT NO. 42502-83120
 FILE NAME: C-S-003
 SHEET NO.
C-S-003

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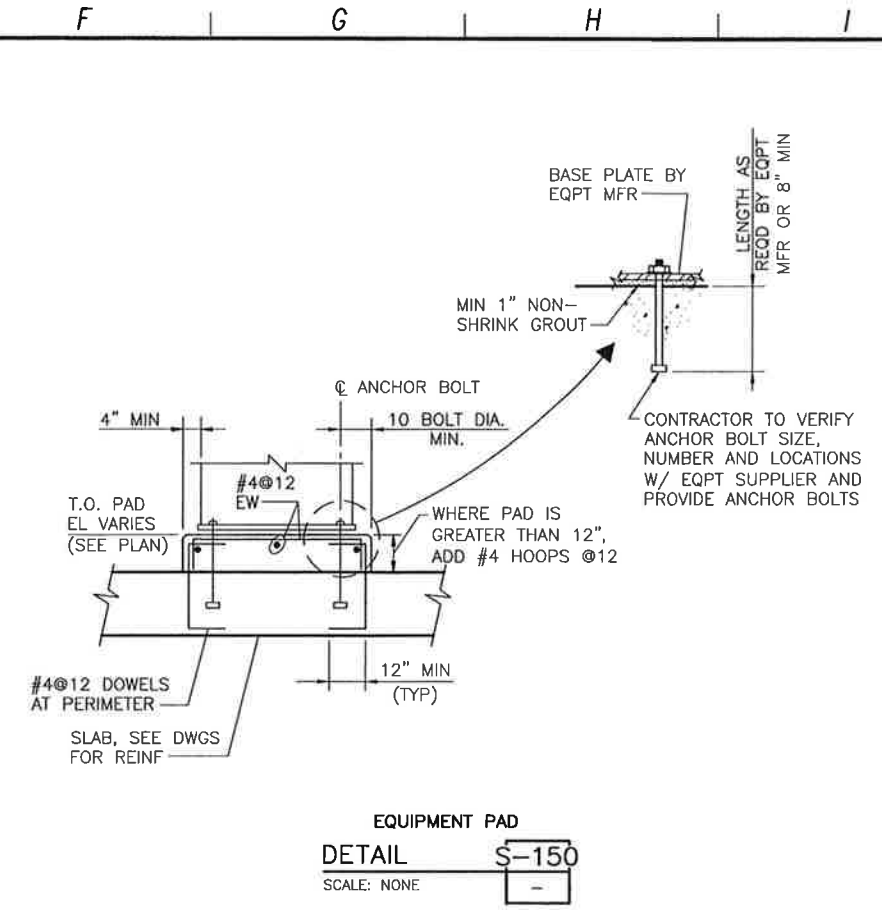
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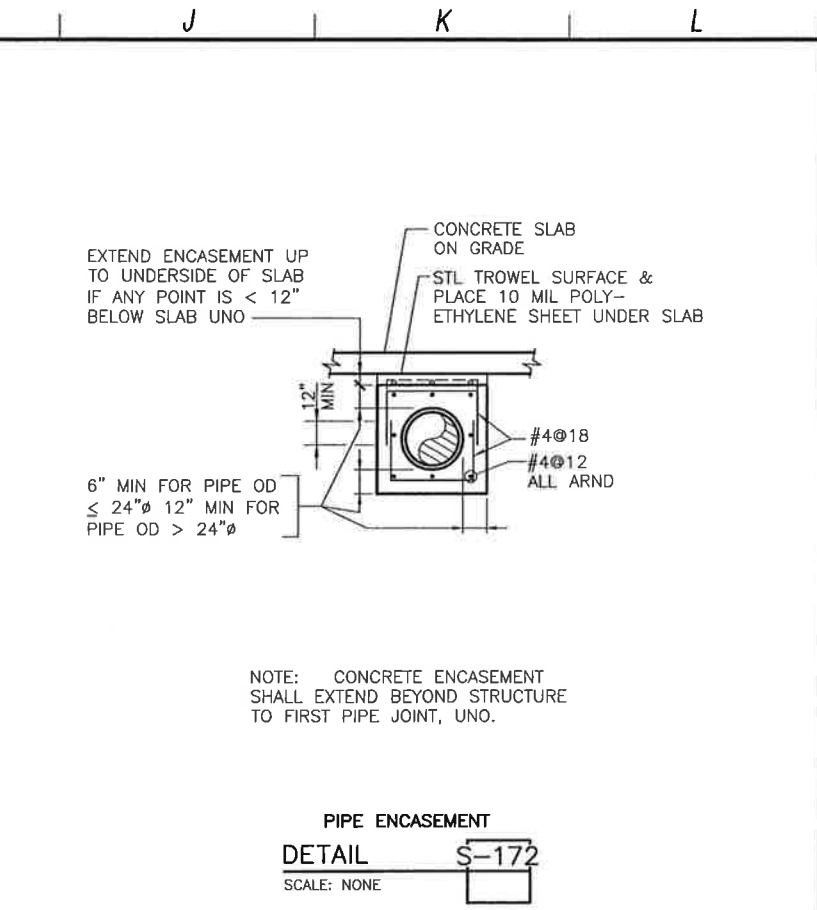
WATERSTOP AT EXISTING SURFACE
DETAIL S-130
 SCALE: NONE



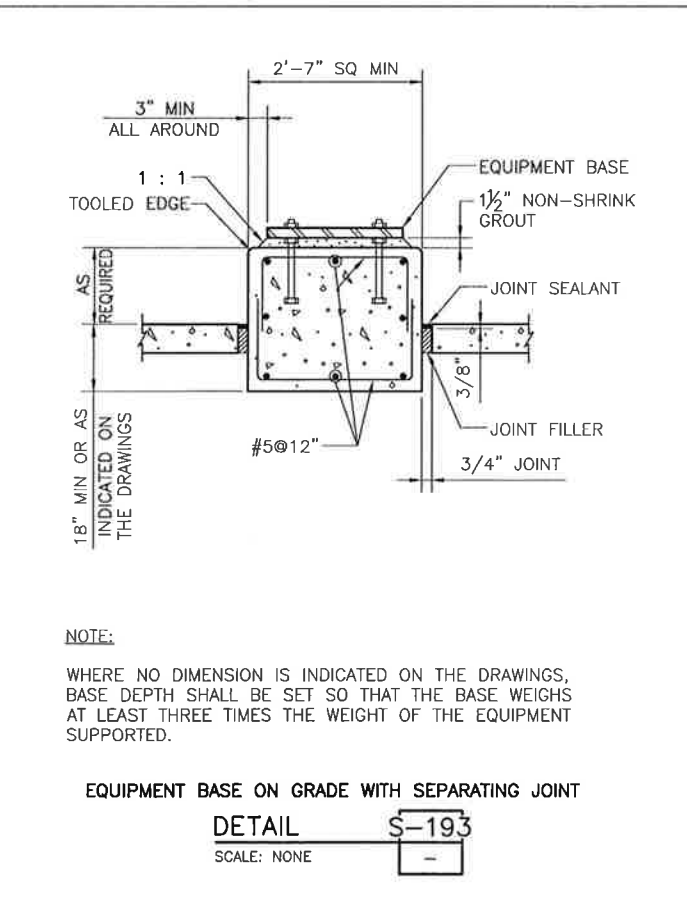
CONCRETE CHAMFER
DETAIL S-140
 SCALE: NONE



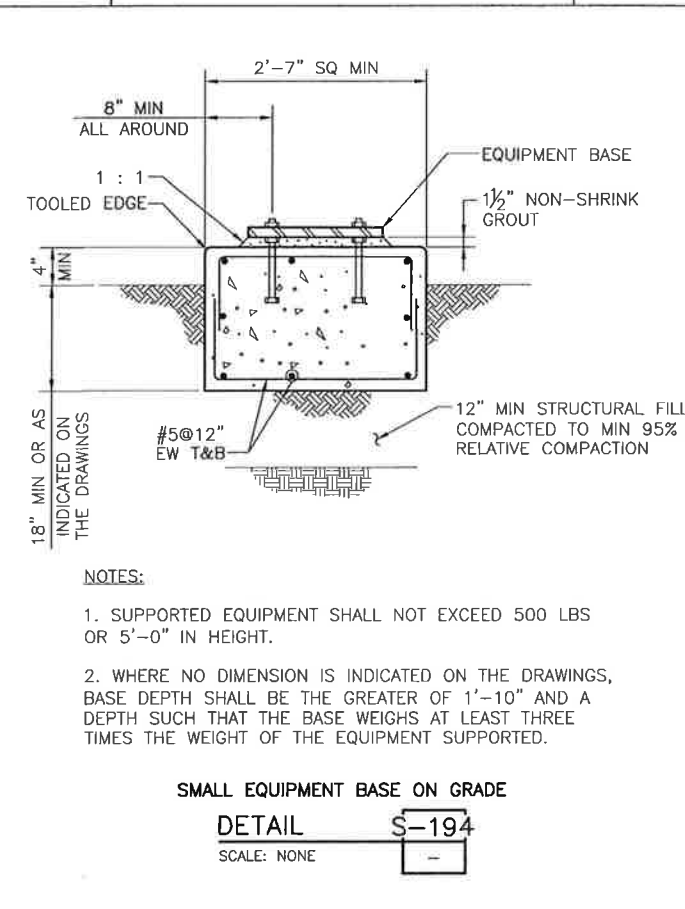
EQUIPMENT PAD
DETAIL S-150
 SCALE: NONE



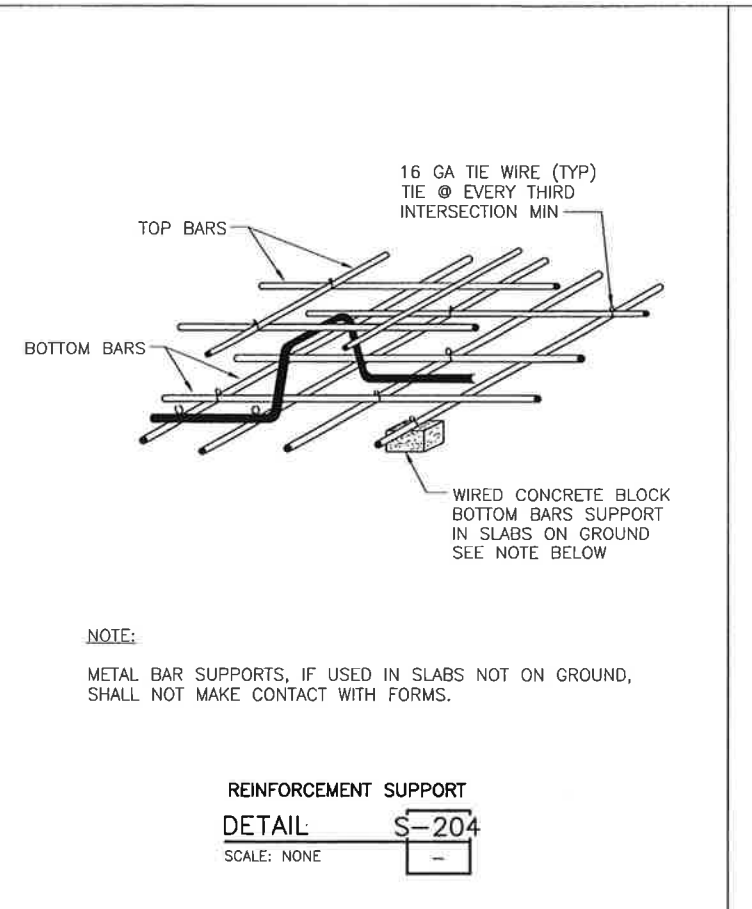
PIPE ENCASUREMENT
DETAIL S-172
 SCALE: NONE



EQUIPMENT BASE ON GRADE WITH SEPARATING JOINT
DETAIL S-193
 SCALE: NONE



SMALL EQUIPMENT BASE ON GRADE
DETAIL S-194
 SCALE: NONE



REINFORCEMENT SUPPORT
DETAIL S-204
 SCALE: NONE

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 DATE: APRIL 2012



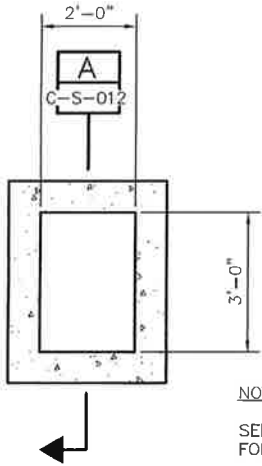
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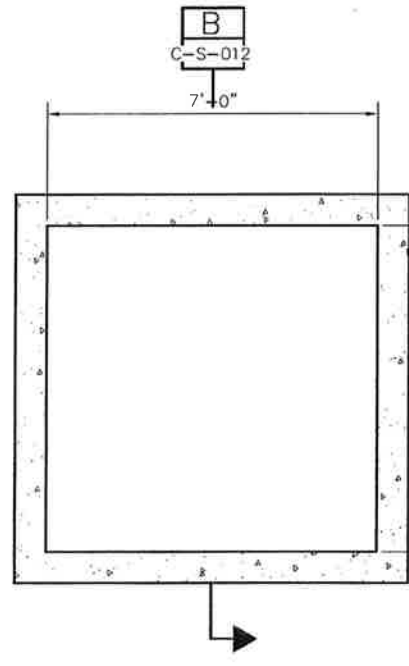
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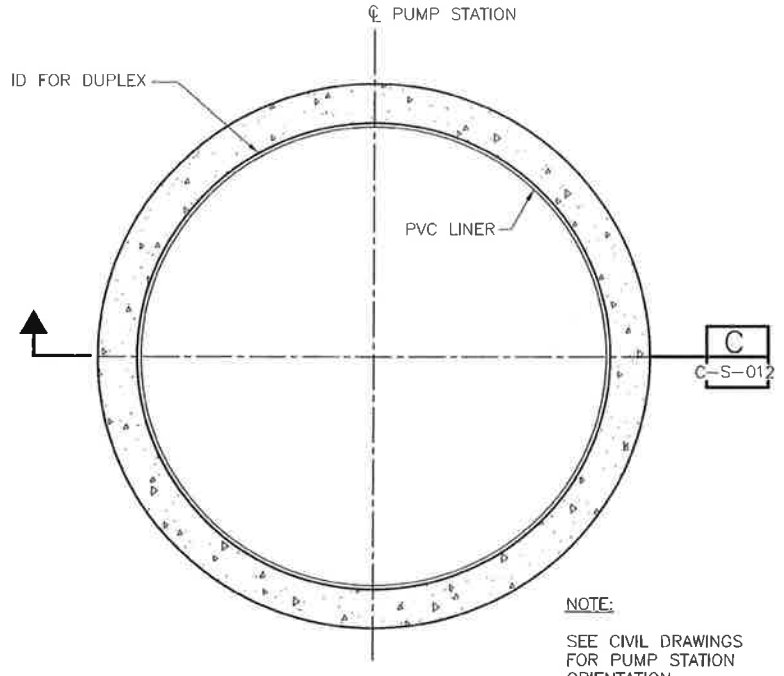
NOTE:
SEE CIVIL DRAWINGS
FOR VAULT ORIENTATION.

**PRECAST CLEANOUT VAULT
FOUNDATION PLAN**
SCALE: 1/2"=1'-0"



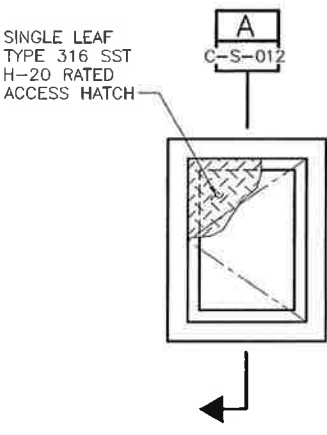
NOTE:
SEE CIVIL DRAWINGS
FOR VAULT ORIENTATION.

**PRECAST VALVE VAULT
FOUNDATION PLAN**
SCALE: 1/2"=1'-0"



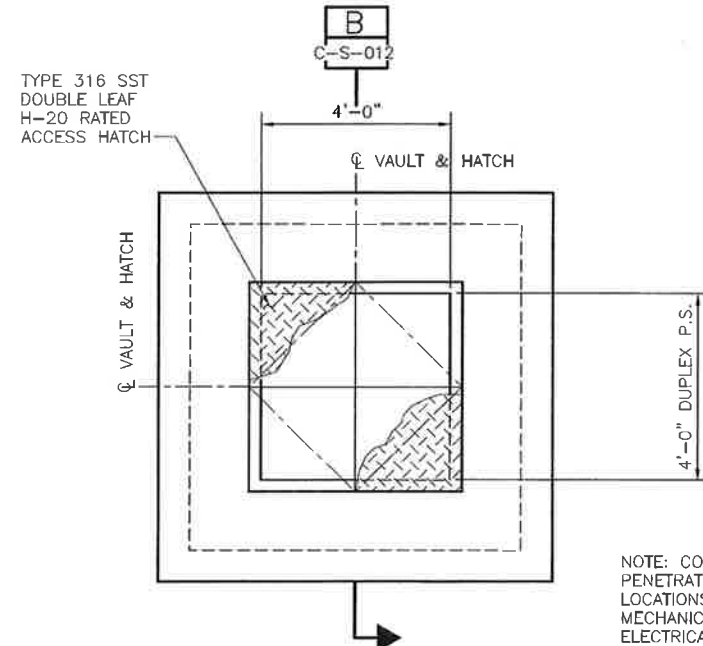
NOTE:
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FOR PUMP STATION
ORIENTATION.

**PUMP STATION
FOUNDATION PLAN**
SCALE: 1/2"=1'-0"



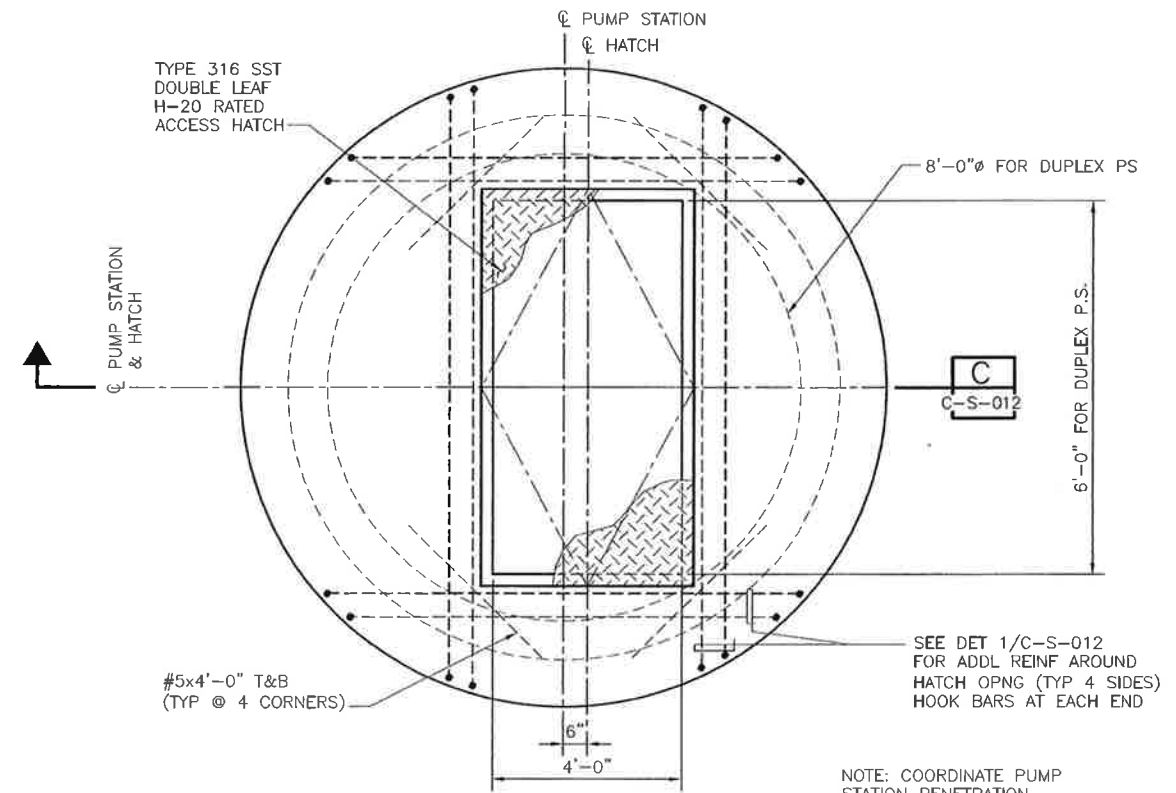
NOTE: COORDINATE VAULT
PENETRATION SIZES AND
LOCATIONS WITH CIVIL,
MECHANICAL AND
ELECTRICAL DRAWINGS.

**PRECAST CLEANOUT VAULT
TOP PLAN**
SCALE: 1/2"=1'-0"



NOTE: COORDINATE VAULT
PENETRATION SIZES AND
LOCATIONS WITH CIVIL,
MECHANICAL AND
ELECTRICAL DRAWINGS.

**PRECAST VALVE VAULT
TOP PLAN**
SCALE: 1/2"=1'-0"



NOTE: COORDINATE PUMP
STATION PENETRATION
SIZES AND LOCATIONS
WITH CIVIL, MECHANICAL
AND ELECTRICAL DRAWINGS.

**PUMP STATION
TOP PLAN**
SCALE: 1/2"=1'-0"

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	12/11/12	LLB	CNO	RNOC 15 - ENLARGE VALVE VAULT

DESIGNED BY: CNO
DRAWN BY: TVN
CHECKED BY: LGS
DATE: APRIL 2012



0 1/2 1
IF THIS BAR DOES
NOT MEASURE 1"
THEN ADJUST SCALE
ACCORDINGLY

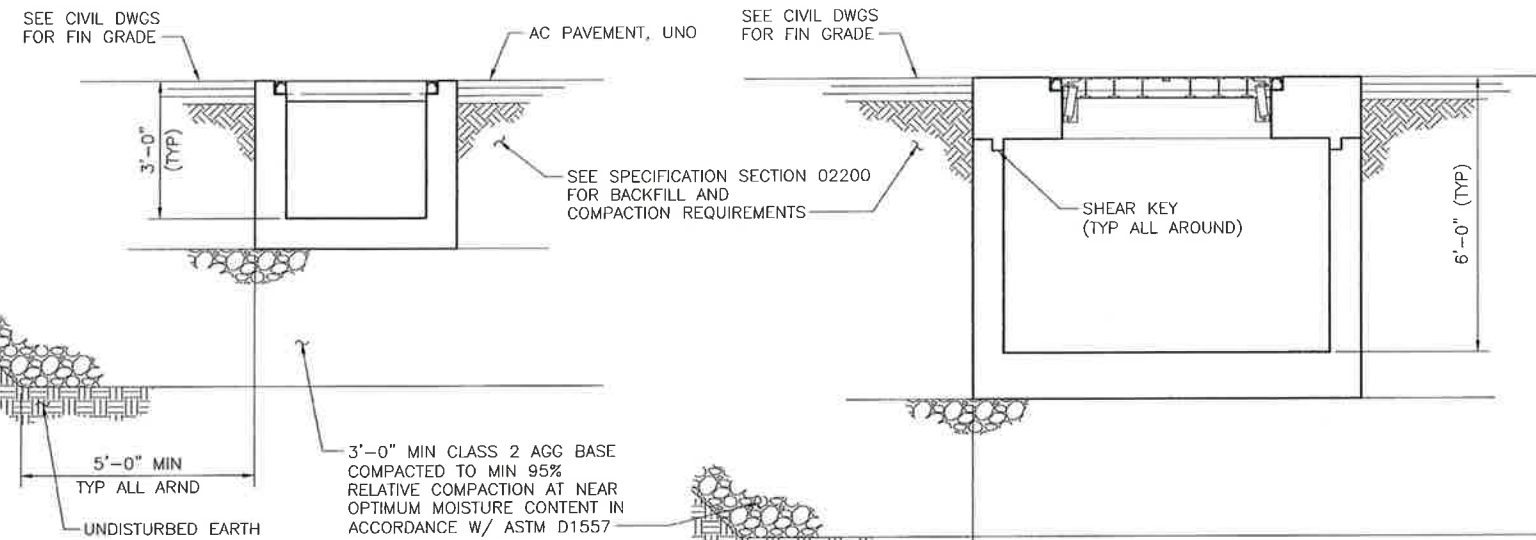


LOS OSOS WASTEWATER COLLECTION SYSTEM
**STRUCTURAL
SUBMERSIBLE PUMP STATIONS & VALVE
VAULTS - FOUNDATION AND TOP PLANS**

PROJECT NO. 42502-B3120
FILE NAME: C-S-011
SHEET NO.
C-S-011.1

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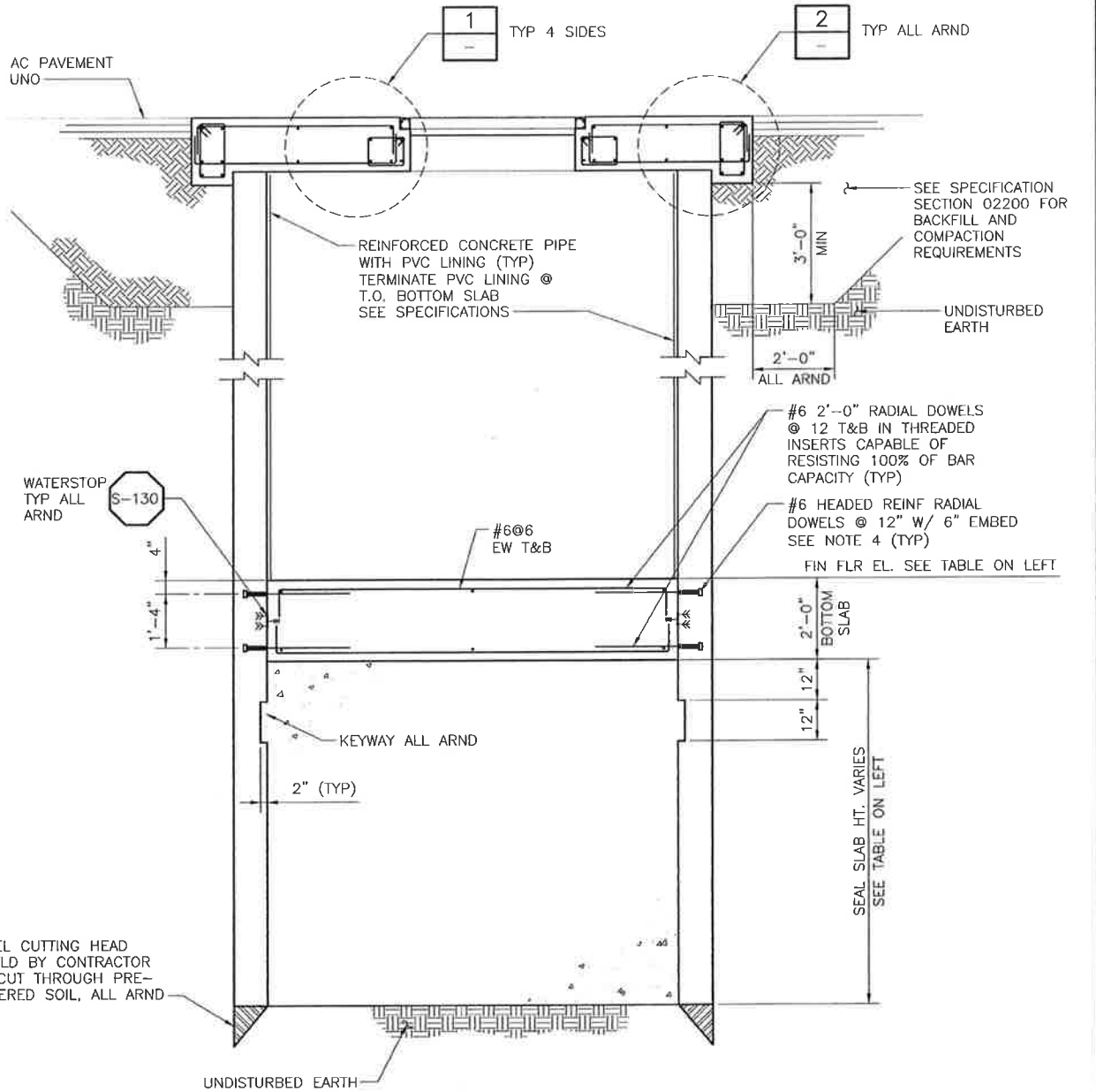
A B C D E F G H I J K L



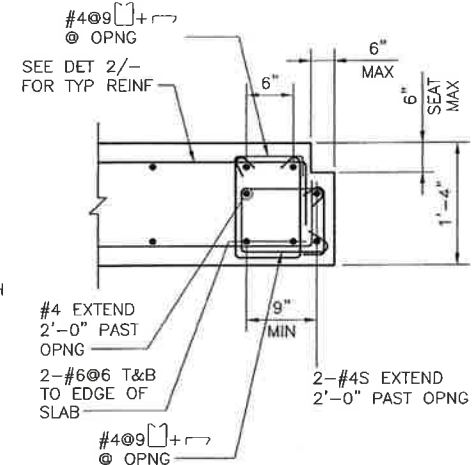
PRECAST CLEANOUT VAULT
SECTION A
SCALE: 1/2"=1' C-S-011

PRECAST VALVE VAULT
SECTION B
SCALE: 1/2"=1' C-S-011

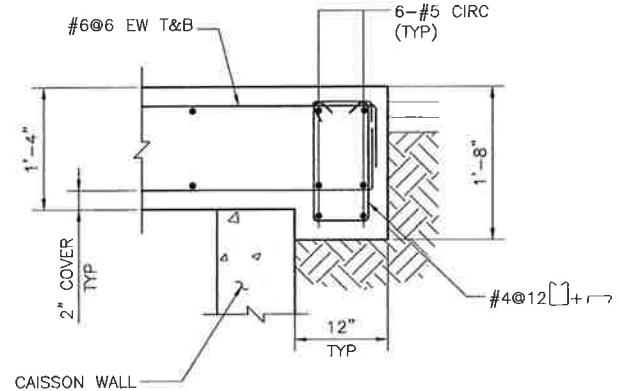
NOTE: SEE SECT A/- FOR BALANCE OF INFO.



PUMP STATION
SECTION C
SCALE: 1/2"=1' C-S-011



DETAIL 1
SCALE: 1"=1' C-S-013



DETAIL 2
SCALE: 1"=1' C-S-013

NOTES:
1. ACCESS HATCH NOT SHOWN FOR CLARITY.

- NOTES:
- REFER TO SPEC SECTION 02355 FOR PUMP STATION RECOMMENDED CHRONOLOGICAL SEQUENCED OF CONSTRUCTION AND ADD'L INFO.
 - REFER TO THE TABLE HEREIN FOR THE FINISHED GRADE ELEVATIONS AND FINISHED FLOOR ELEVATIONS OF THE WET WELL AT VARIOUS SITES.
 - 8' OR 10' INTERNAL DIA PRECAST CONCRETE SECTIONS USED FOR THE SUBMERSIBLE PUMP STATIONS SHALL BE REINFORCED CONCRETE PIPE PER ASTM C-76, CLASS III. REINFORCEMENT SHALL BE CIRCULAR. JOINTS SHALL BE STEEL FLUSH BELL WITH O-RING GASKET, CONFORMING TO ASTM C-361. SEE SPECIFICATION SECTION 02612 FOR ADDITIONAL REQUIREMENTS.
 - SEE SPECIFICATION 03200 FOR ADD'L INFORMATION ON HEADED REINF.

PUMP STATION	DUPLEX
SITE LOCATION	SUNNY OAKS
SUBMERSIBLE PS FIN GRADE EL.	154.85'
SUBMERSIBLE PS FIN FLR EL.	139.07'
SUBMERSIBLE PS I.D.	8'-0"
MIN SEAL SLAB DEPTH	7'-0"

CCR#1

REV. NO.	DATE	DRWN	CHKD	REMARKS
9/14/12	LLB	CNO		ADD SECOND INLET INVERT EL. DEEPEN WETWELL

DESIGNED BY: CNO
DRAWN BY: TVN
CHECKED BY: LGS
DATE: APRIL 2012

CDM Smith
2285 Gateway Oaks Drive, Suite 240
Sacramento, CA 95833
Tel. (916) 567-9900

0 1/2 1
IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY

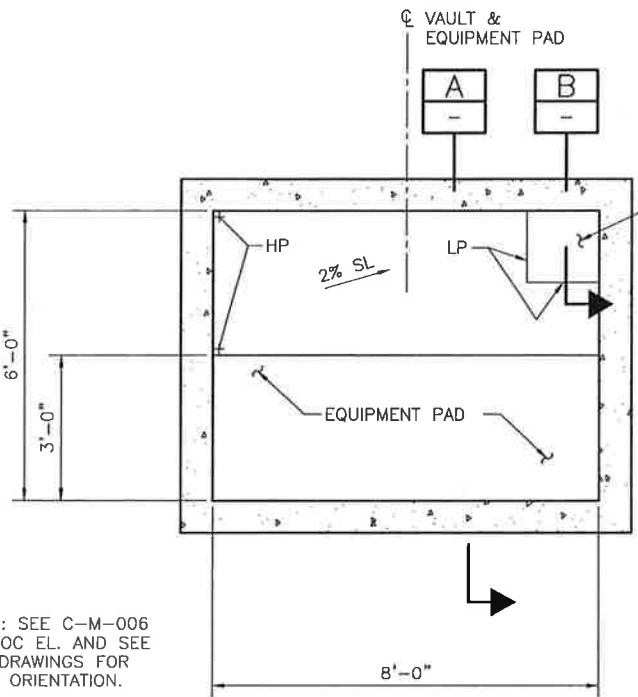
PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
No. 91712
Exp. 8/31/12

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LOS OSOS WASTEWATER COLLECTION SYSTEM
STRUCTURAL SUBMERSIBLE PUMP STATIONS & VALVE VAULTS - SECTIONS AND DETAILS

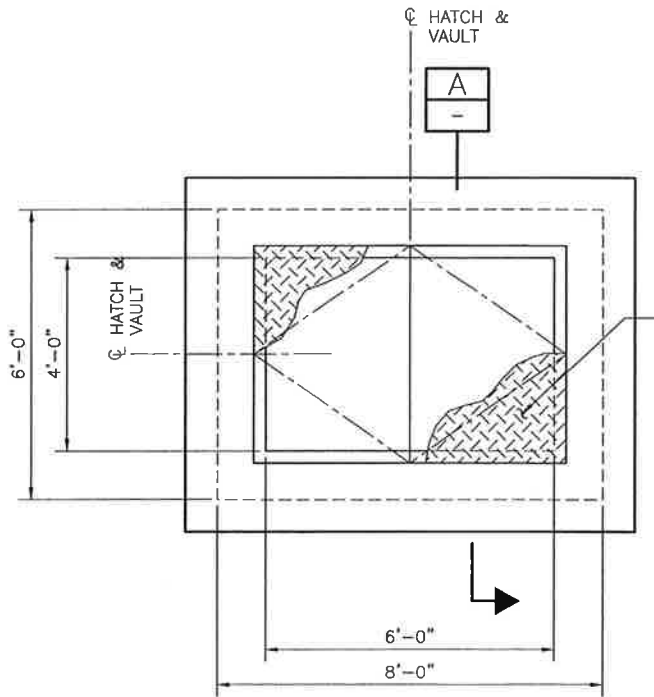
PROJECT NO. 42502-83120
FILE NAME: C-S-012
SHEET NO.
C-S-012

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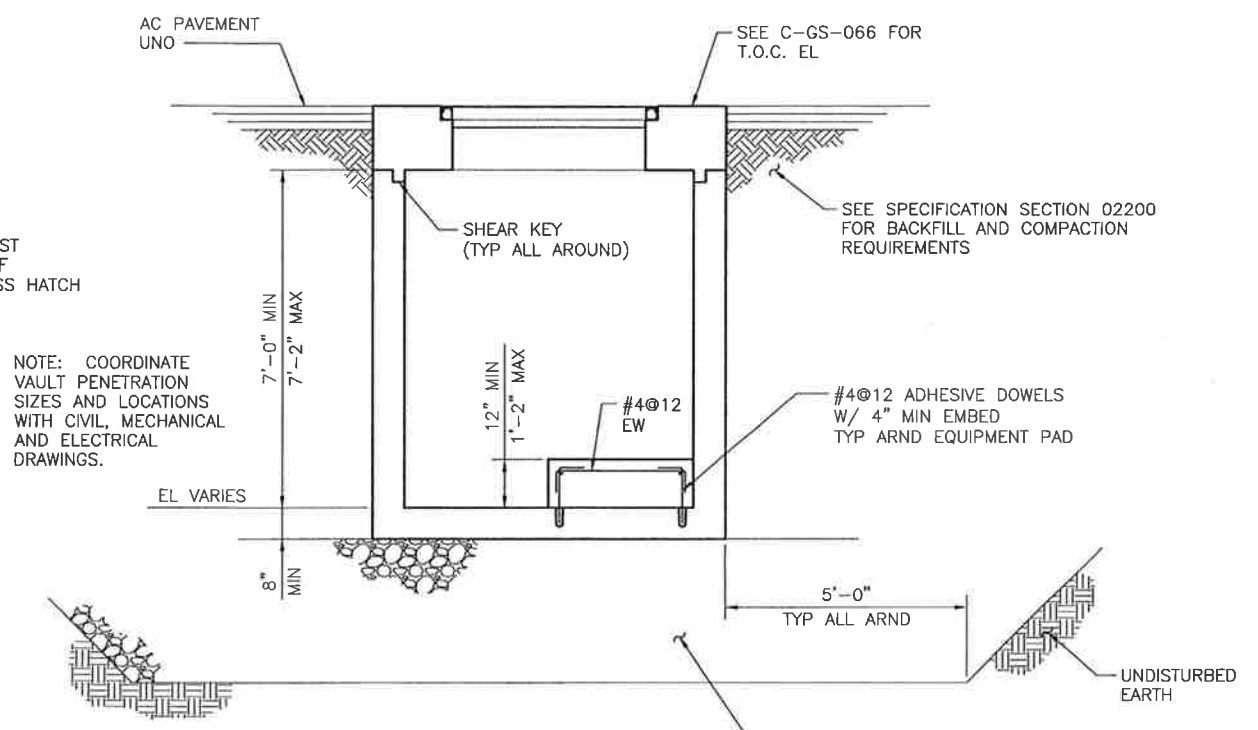


NOTES: SEE C-M-006 FOR T.O.C. EL. AND SEE CIVIL DRAWINGS FOR VAULT ORIENTATION.

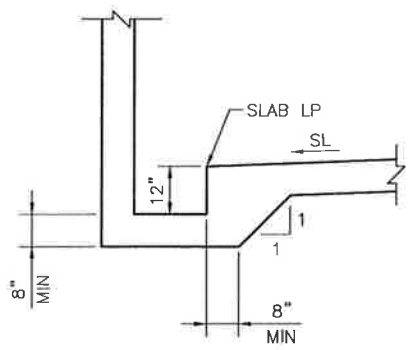
PRECAST ODOR CONTROL VAULT FOUNDATION PLAN
 SCALE: 1/2"=1'-0"



PRECAST ODOR CONTROL VAULT TOP PLAN
 SCALE: 1/2"=1'-0"



PRECAST ODOR CONTROL VAULT SECTION A
 SCALE: 1/2"=1'



SECTION B
 SCALE: 1/2"=1'

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: CNO
 DRAWN BY: TVN
 CHECKED BY: LGS
 DATE: APRIL 2012

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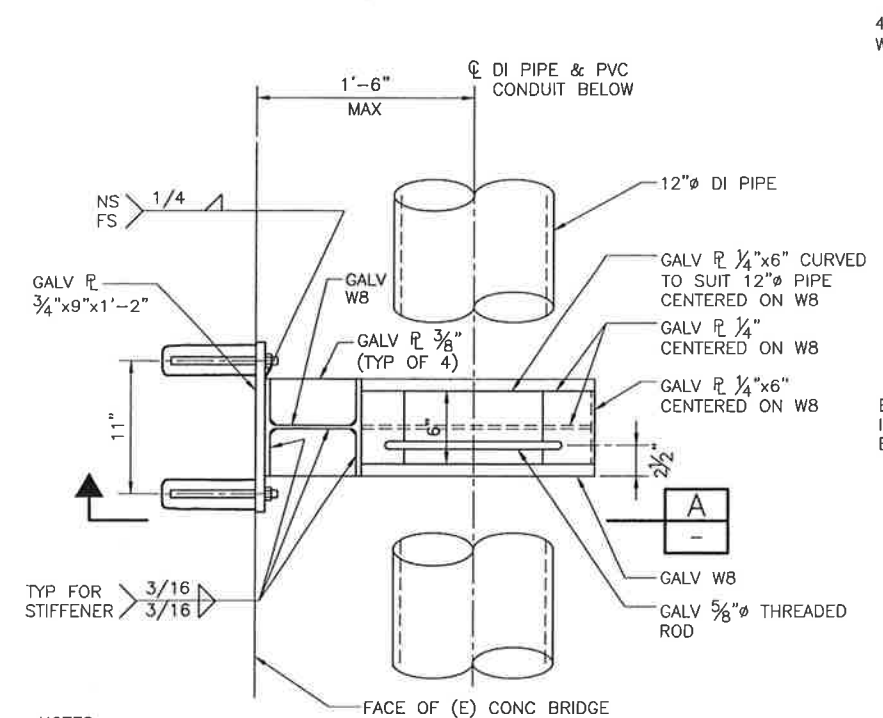
LOS OSOS WASTEWATER COLLECTION SYSTEM
STRUCTURAL ODOR CONTROL VAULTS PLANS AND SECTIONS

PROJECT NO. 42502-83120
 FILE NAME: C-S-013
 SHEET NO.
C-S-013

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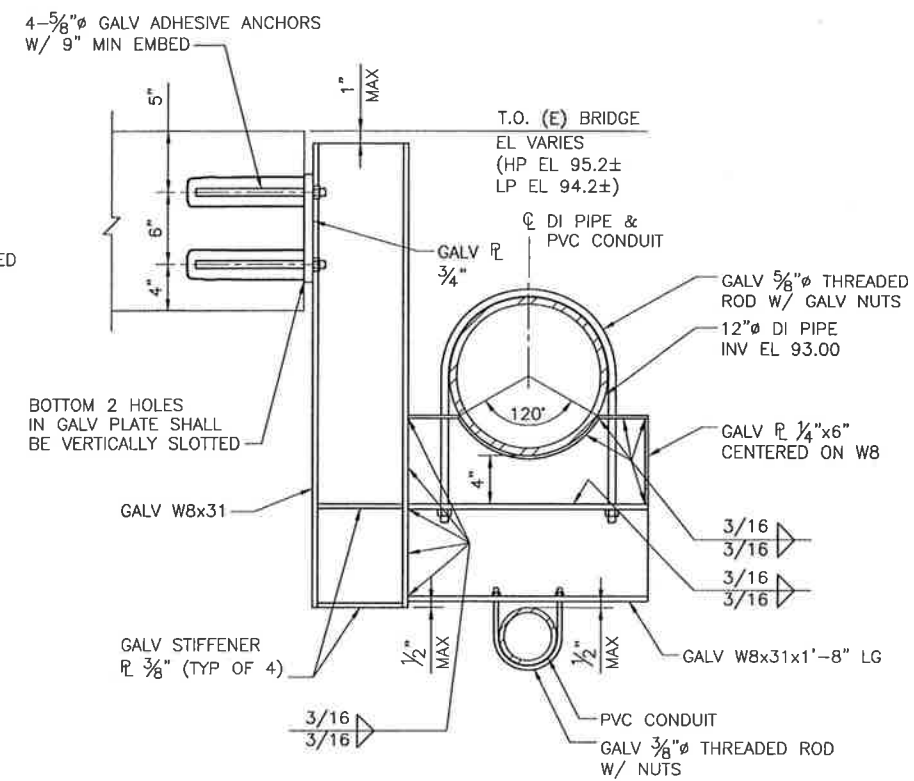
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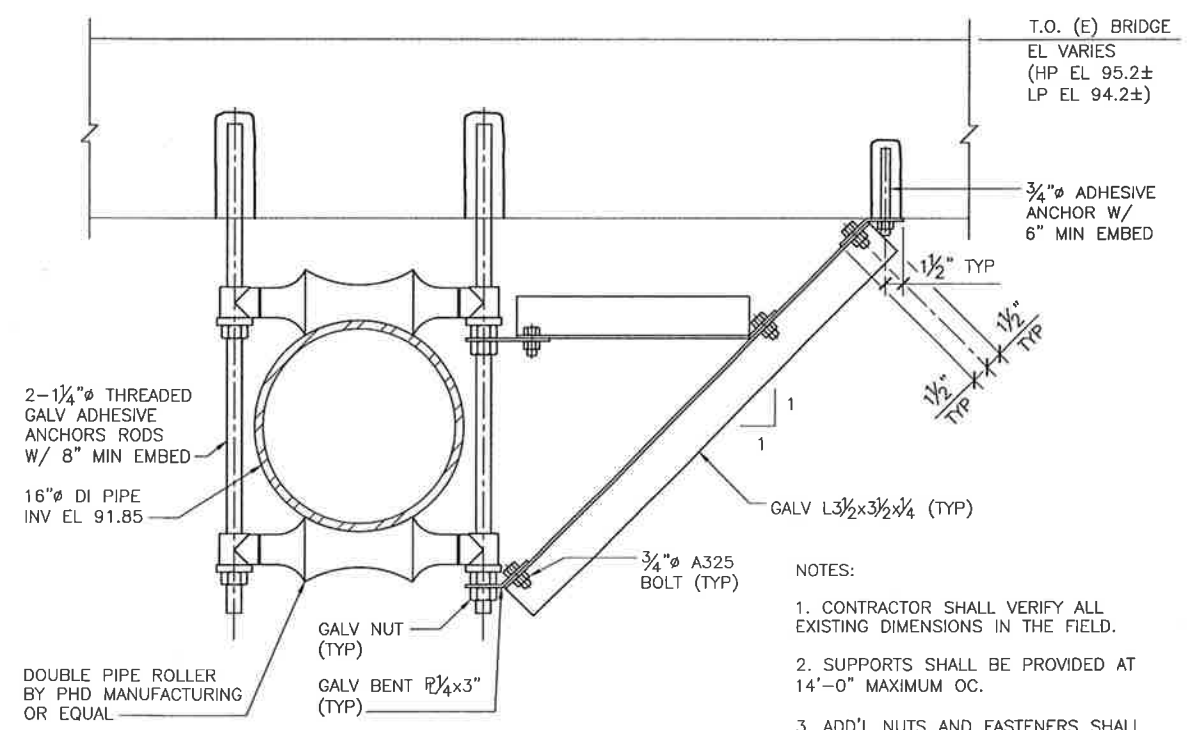


- NOTES:
- PIPE SUPPORTS SHALL BE SPACED AT 8'-0" MAX ON CENTER.
 - CONDUIT BELOW NOT SHOWN FOR CLARITY.
 - SEE ELECTRICAL DRAWINGS FOR CONDUIT SIZE AND QUANTITY.
 - SEE C-PP-363 FOR PIPE LOCATION.

12" PIPE SUPPORT PLAN
 DETAIL 1
 SCALE: 1 1/2"=1'



12" PIPE SUPPORT
 SECTION A
 SCALE: 1 1/2"=1'



- NOTES:
- CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS IN THE FIELD.
 - SUPPORTS SHALL BE PROVIDED AT 14'-0" MAXIMUM OC.
 - ADD'L NUTS AND FASTENERS SHALL BE PROVIDED AS REQ'D BY SUPPORT MANUFACTURER.
 - SEE C-PP-410 FOR PIPE LOCATION.

16" PIPE SUPPORT
 DETAIL 2
 SCALE: 1 1/2"=1'

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: CNO
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 CHECKED BY: LGS
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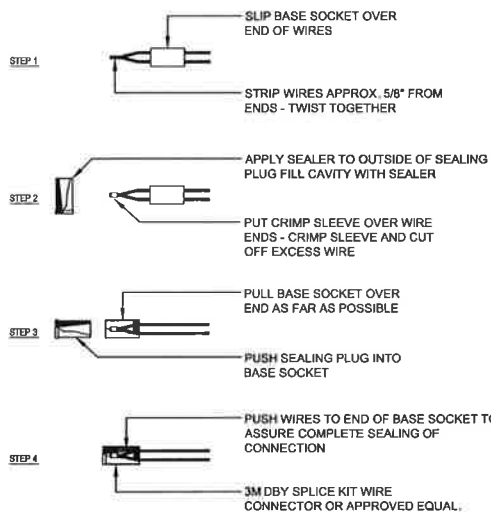
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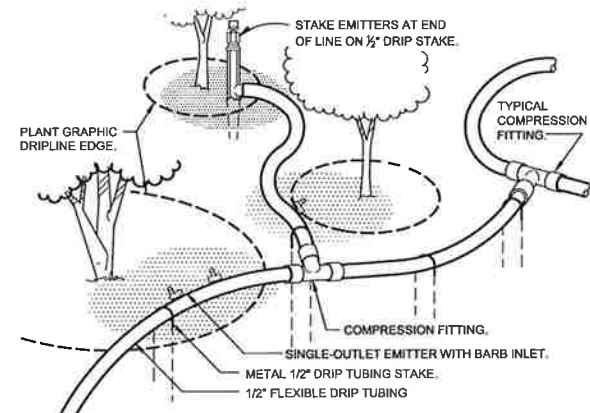
LOS OSOS WASTEWATER COLLECTION SYSTEM
BRIDGE PIPE SUPPORT STRUCTURAL SECTIONS AND DETAILS

PROJECT NO. 42502-83120
 FILE NAME: C-S-014
 SHEET NO. C-S-014



H WIRING CONNECTIONS
1 1/2" = 1'-0"

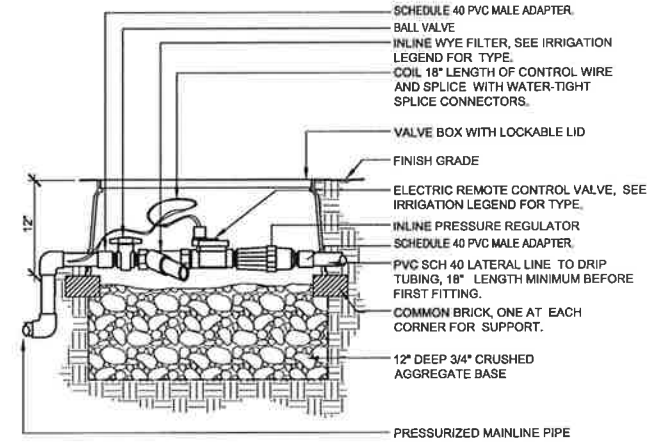
328409.79-02



NOTE:
1. PLACE EMITTERS 3/4" BETWEEN THE TRUNK AND OUTER DRIPLINE.
2. EVENLY SPACE EMITTERS AROUND PLANT.
3. STAKE THE DRIP TUBING AT EACH TEE, ELL, COUPLER, AT EACH EMITTER OR TRANSFER, AND AT 6'-0" MAX O.C.

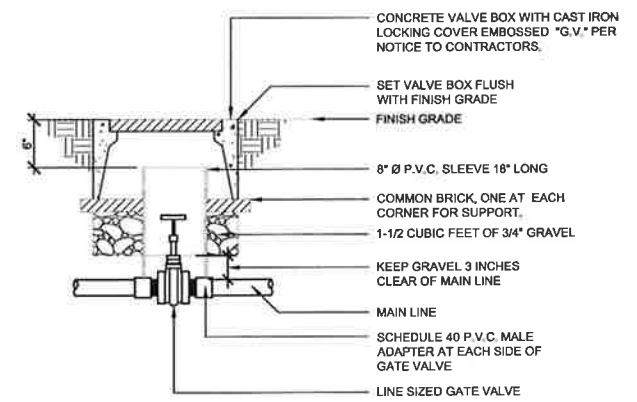
F TYPICAL DRIP TUBING LAYOUT
1 1/2" = 1'-0"

328413.13-50



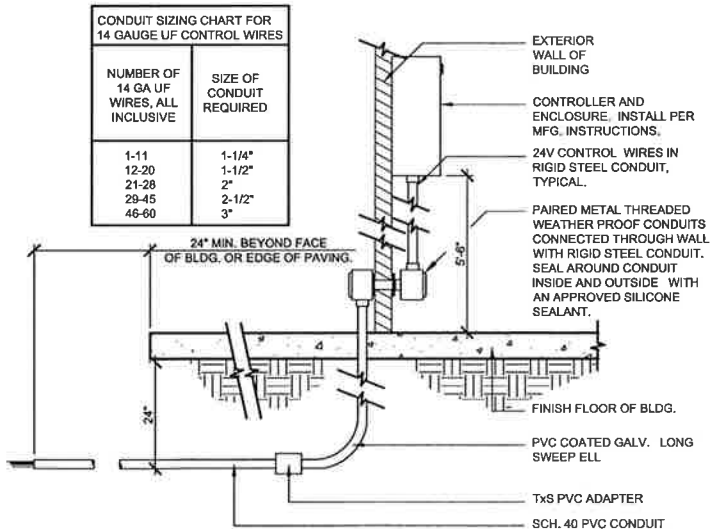
D DRIP ZONE CONTROL VALVE
1/2" = 1'-0"

328413.76-50



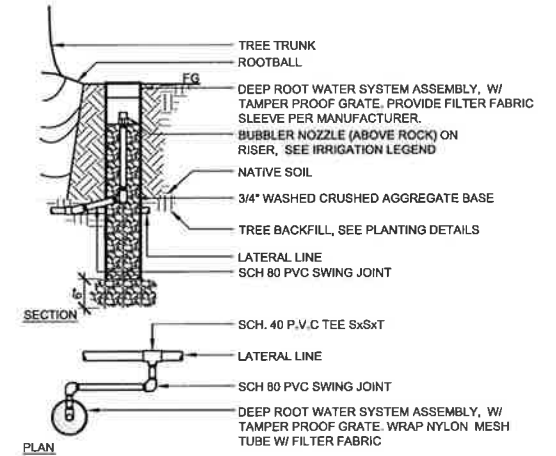
B GATE VALVE
1" = 1'-0"

328406.33-50



G INTERIOR WALL MOUNTED CONTROLLER
3" = 1'-0"

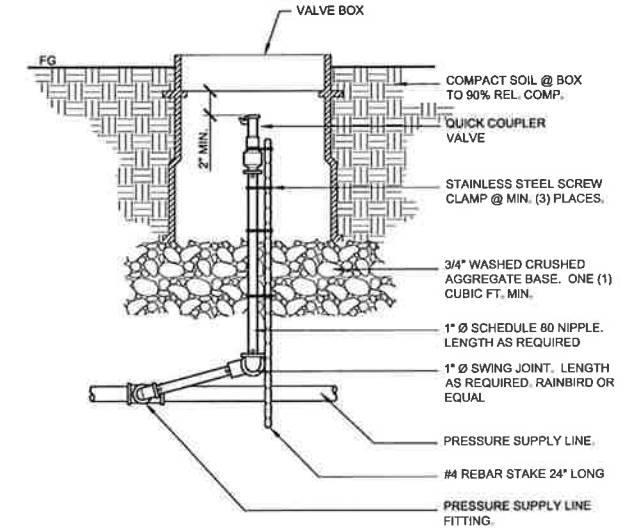
328410.01-50



NOTE:
1. USE PIPE TEFLON TAPE ON ALL PIPE THREADS. TIGHTEN THREADS UNTIL MODERATELY SNUG (DO NOT OVERTIGHTEN).
2. LOCATE TREE BUBBLER ON ROOT BALL SIDE OF ROOT CONTROL BARRIERS.
3. WHERE POSSIBLE, LOCATE TREE BUBBLER AWAY FROM ADJACENT HARDSCAPE AREAS TO DISCOURAGE ROOT GROWTH UNDER PAVING.

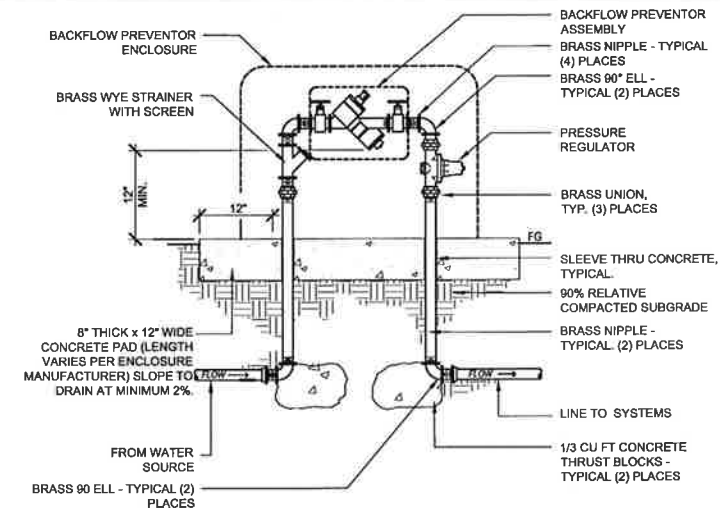
E DEEP ROOT TREE BUBBLER
3/4" = 1'-0"

328415-01



C QUICK COUPLER
1 1/2" = 1'-0"

328406.43-10



A BACKFLOW PREVENTER WITH ENCLOSURE
1 1/2" = 1'-0"

328409.46-10

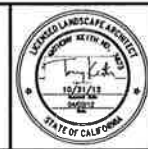
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: B.M.O.
DRAWN BY: C.D.
CHECKED BY: T.K.
DATE: April, 2012

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LOS OSOS WASTEWATER COLLECTION SYSTEM
IRRIGATION DETAILS

PROJECT NO. 2011080
FILE NAME:
SHEET NO.
C-L-001

A B C D E F G H I J K L

IRRIGATION NOTES

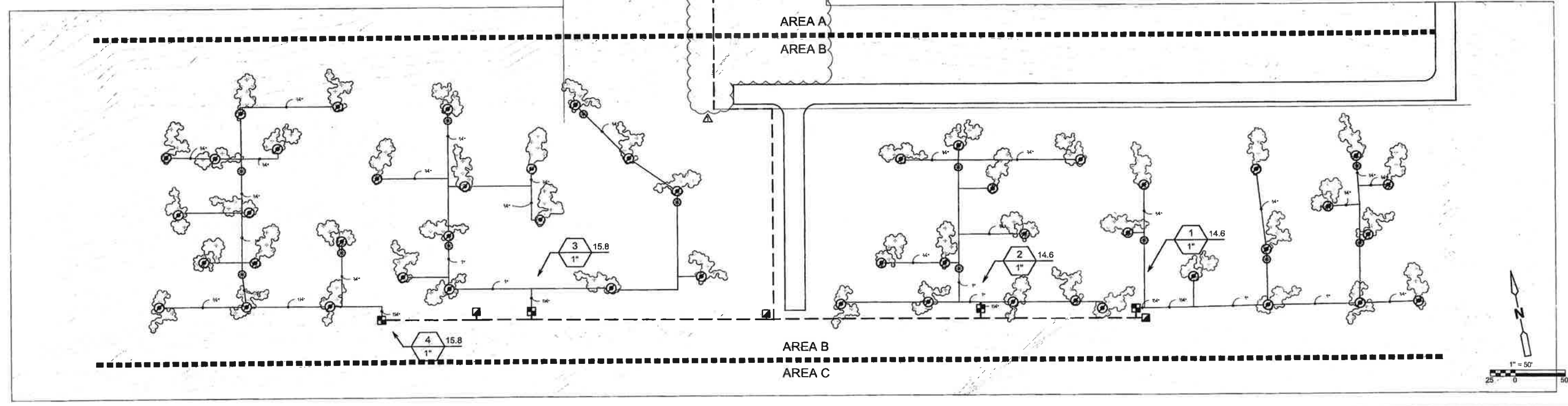
- IRRIGATION PLAN IS DIAGRAMMATIC. FINAL LOCATION OF PIPING WILL BE DETERMINED AT THE TIME OF INSTALLATION. MAINLINE AND LATERALS SHALL BE PLACED IN THE SAME TRENCH WHEN POSSIBLE. ALL O.C. VALVES ARE TO BE LOCATED 12" FROM SIDEWALKS, CURBS, ASPHALT & CONCRETE SURFACES.
- ALL EQUIPMENT REQUIRED BUT NOT SPECIFIED ON THE DRAWING, TO COMPLETE THE WORK, SHALL BE PROVIDED BY THE IRRIGATION CONTRACTOR.
- INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND/OR SPECIFICATIONS.
- CONTRACTOR SHALL COORDINATE POWER TO CONTROLLERS AND DEDICATE ONE (1) 20 AMP BREAKER FOR EACH CONTROLLER. THE AUTHORIZED REPRESENTATIVE SHALL REVIEW CONTROLLER LOCATIONS PRIOR TO INSTALLATION. 120 VOLT SERVICE AND HOOK-UP TO THE CONTROLLER SHALL BE COMPLETED BY A LICENSED ELECTRICAL CONTRACTOR. THIS COST IS TO BE A PART OF THE LANDSCAPE CONTRACTOR'S BID.
- CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLANS AND SITE CONDITIONS PRIOR TO BEGINNING WORK. SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT BEFORE PROCEEDING WITH THE WORK IN QUESTION.
- DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY AT NO EXPENSE TO THE AUTHORIZED REPRESENTATIVE.
- SPLICING OF 24 VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 24" COIL OF EXCESS WIRE AT EACH SPLICE. LABEL ALL WIRES W/ WATERPROOF MARKERS AT ALL SPLICES AND VALVE MANIFOLDS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL MATERIAL APPEARING ON PLAN.
- CONTRACTOR SHALL MAKE ALL NECESSARY ADJUSTMENTS TO THE IRRIGATION SYSTEM FOLLOWING A PRECIPITATION TEST PER THE AUTHORIZED REPRESENTATIVE. ADJUSTMENTS SHALL INCLUDE BUT WILL NOT BE LIMITED TO: DRIP LINE RELOCATION, CHANGING/ADDING EMITTERS, ADJUSTING NOZZLES IN ORDER TO PROVIDE ADEQUATE WATER COVERAGE FOR PLANT MATERIAL AS DETERMINED BY THE AUTHORIZED REPRESENTATIVE.
- CONTRACTOR SHALL NOT INSTALL ANY PLANTING UNTIL THE FOLLOWING ARE COMPLETED: 1. THE IRRIGATION SYSTEM SHALL BE FULLY OPERATIONAL. 2. HYDROSTATIC PRESSURE TESTS SHALL BE PERFORMED ON MAIN AND LATERAL LINES. 3. ALL ZONES SHALL PASS A COVERAGE TEST. 4. CONTROLLERS SHALL BE FULLY OPERATIONAL.
- WATER METER SIZES PROVIDED CONSTITUTE THE MINIMUM SIZE REQUIRED FOR LANDSCAPE IRRIGATION PURPOSES. IF CONFLICTS OCCUR BETWEEN THESE PLANS AND CIVIL PLANS, THE LARGER METER SIZE SHALL PREVAIL.
- IRRIGATION DRILINE AND LATERAL LAYOUT PROVIDED BELOW IS SCHEMATIC AND WILL VARY IN FIELD BASED ON ACTUAL LOCATION OF PLANT GROUPINGS. MAINLINE AND VALVE LOCATIONS SHALL BE INSTALLED AS SHOWN.
- INSTALL CHECK VALVE ON LATERALS AS SHOWN AND AT EVERY 5 FT IN ELEVATION DROP. LINE SIZE.
- EXTEND IRRIGATION MAINLINE APPROX. 110 FEET TO CONNECTION POINT ON HIGHLAND DRIVE.

IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
	Rain Bird XCZ-LF-100-PRF Drip Control Kit, 1" Low Flow valve, 3/4" pressure regulating RBY filter and 30psi pressure regulator.	D/C-L-001
	Pipe Transition Point	C/C-L-002
	Area to Receive Drip Emitters Rain Bird Xerf-Bug XB Single outlet pressure compensating drip emitter, barbed inlet, Blue=0.5gph, Black=1.0gph, Red=2.0gph. Emitter Notes: 1 gal plant to receive 1 1.0 GPH emitter. 5 gal plant to receive 2 1.0 GPH emitters. 15 gal plant to receive 1 2.0 GPH emitter.	F/C-L-001
	Rain Bird 44LRC 1" Quick Coupler Valve, two piece body, locking cover	C/C-L-001
	Superior 3200 1-1/2" Normally closed, solid brass construction	A/C-L-001
	Febco 825Y 1-1/2" Reduced Pressure Backflow Preventer	A/C-L-001
	Toro TMC-212-OD Remote Valve Controller, 4-Station, Outdoor	G/C-L-001
	Toro TWRFS Wireless Rain/Freeze Sensor Transmitter and Receiver. Mount Sensor Transmitter as noted or approved, mount Sensor Receiver next to the Irrigation Controller as noted or approved, use controller power or optional transformer. Adjust shuttloff points.	
	Toro Flow Sensor TFS-100	
	Rain Bird Booster Pump 5 HP 220V SINGLE PHASE, VFD PUMP	
	Water Meter 1-1/2" (Broderon POC) Assumed Pressure	
	Irrigation Lateral Line: PVC Schedule 40 PVC Schedule 40 irrigation pipe. Only lateral transition pipe sizes 1" and above are indicated on the plan, with all others being 3/4" in size.	A/C-L-002
	Irrigation Mainline: PVC Schedule 40	A/C-L-002
	Valve Callout Valve Number Valve Flow Valve Size	

POINT OF CONNECTION NOTES:
CONTRACTOR SHALL VERIFY PRESSURE TO BE A MINIMUM OF 52 PSI AT POINT OF CONNECTION. NOTIFY LANDSCAPE ARCHITECT OF ACTUAL PRESSURE IN FIELD.

1-888-550-6981



S:\Los Osos\Working\Area C Sub\Area C - ED\A C-L-102 08/01/13 08:13 bullockl XREFS: 1002008base-eds, c-ed-gid, Topo_grading, lotlines

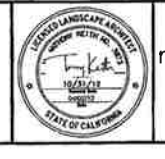
REV. NO.	DATE	DRWN	CHKD	REMARKS
1	8/01/13	LLB	RLA	RFI 116 - RELOCATE PT OF CONNECTION

DESIGNED BY: PB B.M.O.
 DRAWN BY: PS C.D.
 CHECKED BY: PB T.K.
 DATE: May , 2012

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 Sacramento, CA 95833
 Tel: (916) 987-9900



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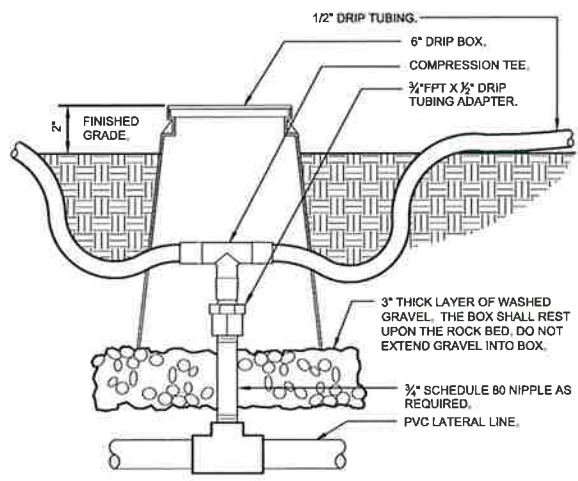


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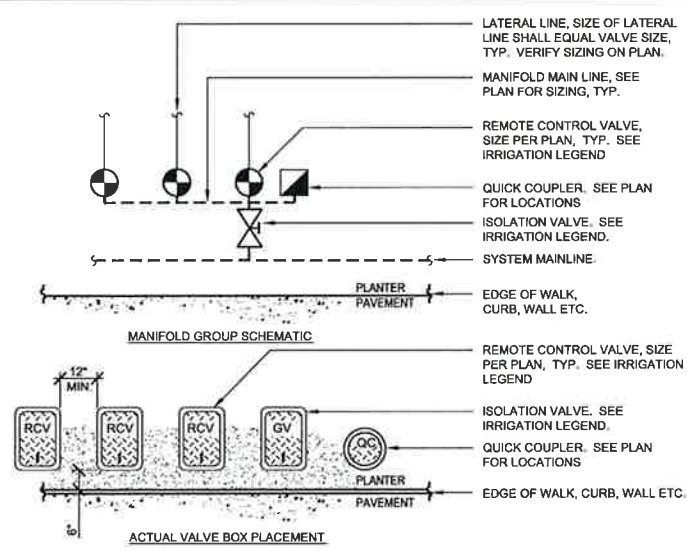
LOS OSOS WASTEWATER COLLECTION SYSTEM
 BRODERSON EFFLUENT DISPOSAL SITE
 IRRIGATION PLAN

PROJECT NO.42502-83120
 FILE NAME:
 SHEET NO.
C-L-102.1



C RIGID PVC TO DRIPLINE TRANSITION
3/8" = 1'-0"

328413.46-03

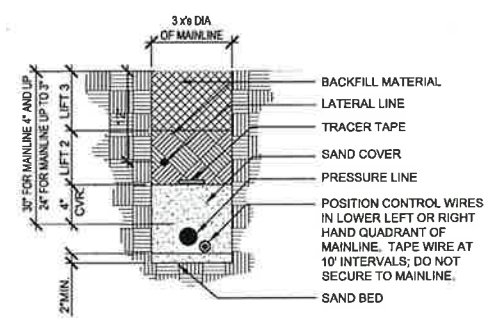


NOTES:
1. ALL VALVES SHALL BE RUN OFF A MANIFOLD GROUP SIMILAR TO THAT SHOWN IN ABOVE DIAGRAM.
2. ALL BOXES SHALL BE SQUARE TO ONE ANOTHER, AND TO EDGES OF ADJACENT FIXED OBJECTS.
3. ALL VALVE BOXES SHALL BE SET 2" ABOVE FINISH GRADE.
4. SEE IRRIGATION PLAN FOR MAINLINE PIPE SIZING.

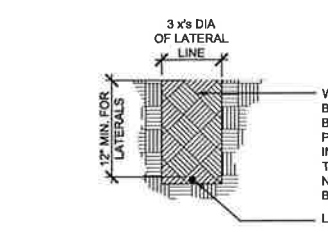
B VALVE BOX LAYOUT IN PLANTERS
3/8" = 1'-0"

328490-01

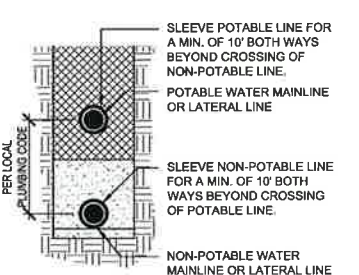
SEE REV
C-L-102.1



MAINLINE COMBINED WITH LATERAL LINE



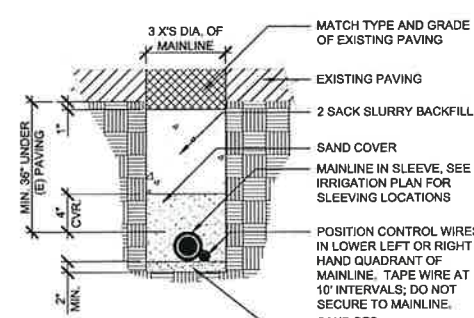
LATERAL LINE



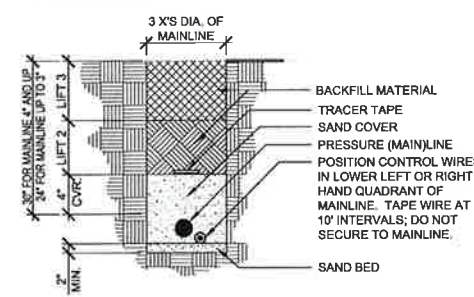
RECLAIMED WATER & POTABLE WATER PIPE

A TRENCHING
1" = 1'-0"

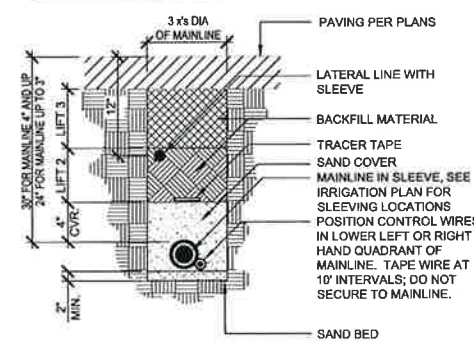
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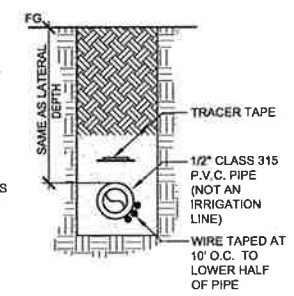
MAINLINE WITH CONTROL WIRE BELOW EXISTING PAVING



MAINLINE WITH CONTROL WIRE



MAINLINE COMBINED WITH LATERAL LINE UNDER PAVEMENT



CONTROL WIRE SEPARATE FROM PIPE

NOTES:
1. PIPE BEDDING AND BACKFILL SHALL BE WATER JETTED TO ACHIEVE PROPER DENSIFICATION.
2. PIPE AND CONTROL WIRE CROSSING VEHICULAR ROADWAY SHALL BE SLEEVED PER PLANS AND THIS DETAIL REQUIRED BY INSPECTOR.
3. ELECTRICAL SLEEVE: 3" MIN. LARGER IF IRRIGATION SLEEVE: TWO PIPE SIZES LARGER THAN WATER PIPE SIZE.
4. IRRIGATION SLEEVE: TWO PIPE SIZES LARGER THAN WATER PIPE SIZE.
5. SHOW ALIGNMENT OF ALL CONTROL WIRE NOT INSTALLED WITH MAINLINE ON AS-BUILT DRAWINGS.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: B.M.O.
DRAWN BY: C.D.
CHECKED BY: T.K.
DATE: April, 2012

CDM Camp Dresser & McKee Inc.
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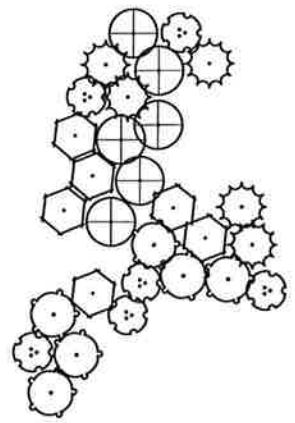


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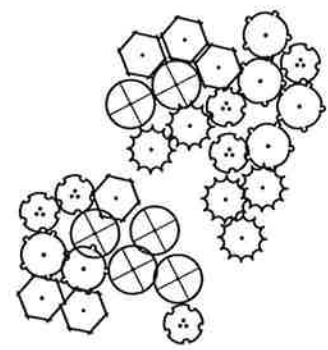
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IRRIGATION DETAILS

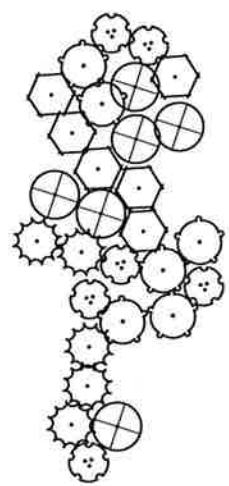
PROJECT NO. 2011080
FILE NAME:
SHEET NO.
C-L-002



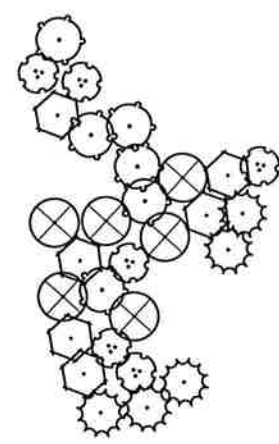
Typical Group 1



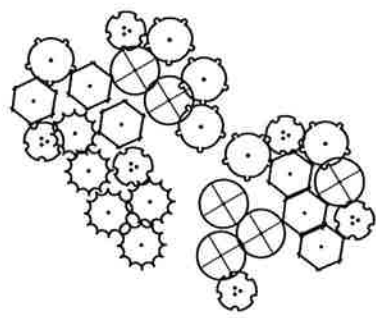
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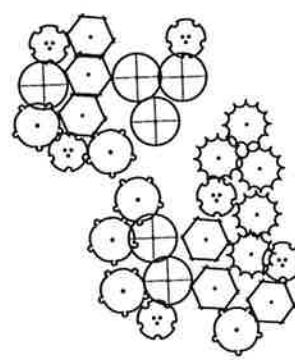
Typical Group 3



Typical Group 4



Typical Group 5

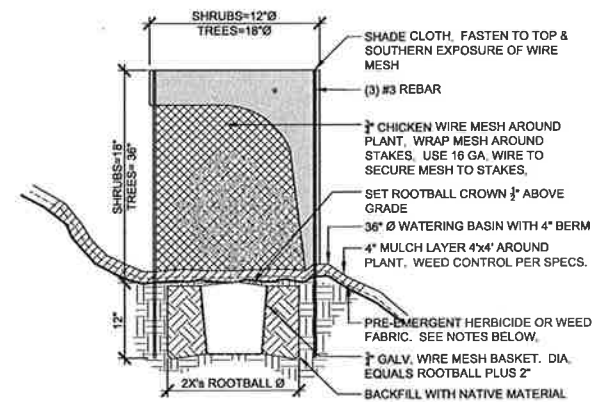


Typical Group 6

- Botanical Name / Common Name**
- Artemisia californica / California Sage
 - Baccharis pilularis / Coyote Bush
 - Ceanothus cuneatus 'cuneatus' / Buckbrush
 - Lupinus chamissonis / Dune Bush Lupine
 - Salvia melifera / Black Sage

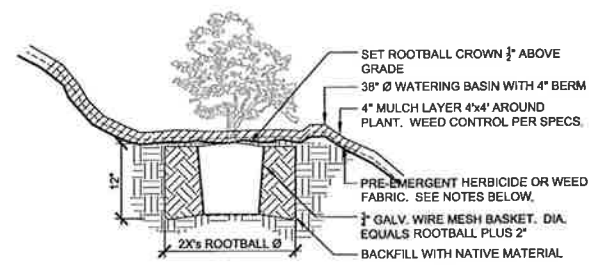
E PLANT GROUPS
1" = 10'

9905-01



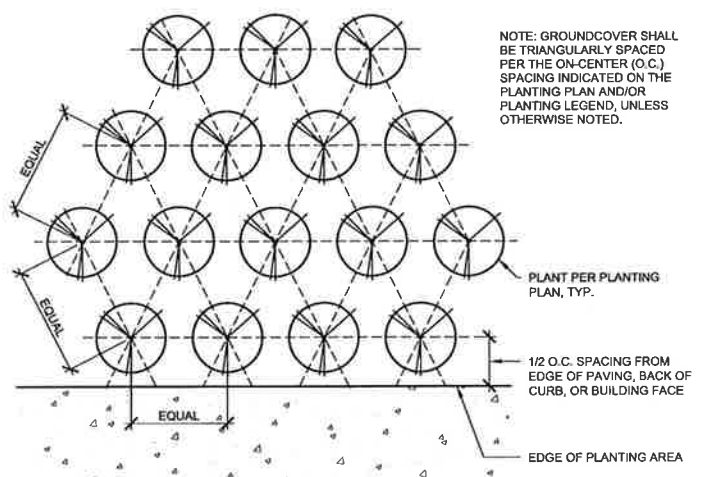
NOTES:
1. WEED FABRIC SHALL BE USED ON ALL PLANTINGS WITHIN 50 FEET OF WETLANDS, E.G. POND, CREEK, MARSH ETC., OR OTHER AREAS WHERE THE PRE-EMERGENT HERBICIDE MANUFACTURER SPECIFIES RESTRICTIONS ON USE, UNLESS OTHERWISE SPECIFIED IN THE HABITAT MANAGEMENT PLAN.

D TREE & SHRUB PLANTING WITH ENCLOSURE
1" = 1'-0" INSTALL FOR BRODERSON SITE 329390-01



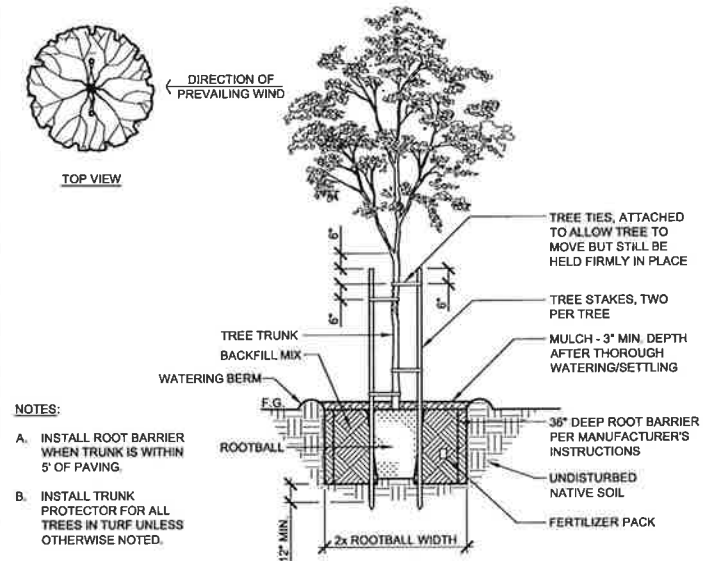
NOTES:
1. WEED FABRIC SHALL BE USED ON ALL PLANTINGS WITHIN 50 FEET OF WETLANDS, E.G. POND, CREEK, MARSH ETC., OR OTHER AREAS WHERE THE PRE-EMERGENT HERBICIDE MANUFACTURER SPECIFIES RESTRICTIONS ON USE, UNLESS OTHERWISE SPECIFIED IN THE HABITAT MANAGEMENT PLAN.

B SHRUB PLANTING WITH WIRE BASKET
1" = 1'-0" INSTALL FOR ALL PUMP STATION APPLICATIONS 329333-10



NOTE: GROUNDCOVER SHALL BE TRIANGULARLY SPACED PER THE ON-CENTER (O.C.) SPACING INDICATED ON THE PLANTING PLAN AND/OR PLANTING LEGEND, UNLESS OTHERWISE NOTED.

C GROUNDCOVER SPACING
1 1/2" = 1'-0" INSTALL FOR ALL PUMP STATION APPLICATIONS 329333-01



NOTES:
A. INSTALL ROOT BARRIER WHEN TRUNK IS WITHIN 5' OF PAVING.
B. INSTALL TRUNK PROTECTOR FOR ALL TREES IN TURF UNLESS OTHERWISE NOTED.

A TREE PLANTING WITH WOOD STAKING
1/2" = 1'-0" INSTALL FOR ALL PUMP STATION APPLICATIONS 329343-05

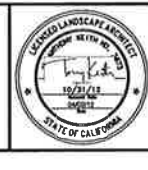
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: B.M.Q.
DRAWN BY: C.D.
CHECKED BY: T.K.
DATE: April, 2012

CDM Camp Dresser & McKee Inc.
2295 GATEWAY OAKS DRIVE
SUITE 240
SACRAMENTO, CA 95833
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LOS OSOS WASTEWATER COLLECTION SYSTEM
PLANTING DETAILS

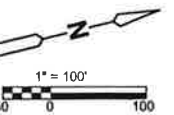
PROJECT NO. 2011080
FILE NAME:
SHEET NO.
C-L-003



IRRIGATION NOTES

The following Irrigation Notes are conditions set forth within the Habitat Management Plan for the Los Osos Wastewater Project (SWCA Environmental Consulting). The Contractor shall obtain and review the entire Habitat Management Plan prior to bidding the project to insure proper conformance.

- AREA A: (10.30 acres) No Irrigation Work in this Area.
- AREA B: (10.28 acres) See Sheet C-L-207 for Irrigation in this Area.
- AREA C: (4.59 acres) No Irrigation Work in this Area.
- AREA D: (4.59 acres) No Irrigation Work in this Area.



REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: B.M.O.
 DRAWN BY: C.D.
 CHECKED BY: T.K.
 DATE: April, 2012

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 BRODERSON EFFLUENT DISPOSAL SITE
 IRRIGATION PLAN

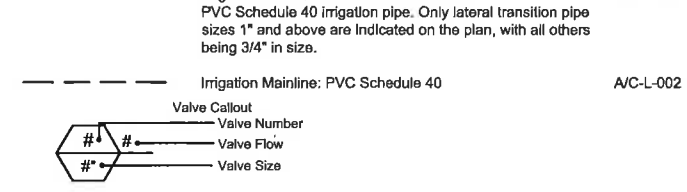
PROJECT NO. 2011080
 FILE NAME: **SHEET NO. C-L-101**

IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
	Rain Bird XCZ-LF-100-PRF Drip Control Kit, 1" Low Flow valve, 3/4" pressure regulating RBY filter and 30psi pressure regulator.	D/C-L-001
	Pipe Transition Point	C/C-L-002
	Area to Receive Drip Emitters Rain Bird Xeri-Bug XB Single outlet pressure compensating drip emitter, barbed inlet, Blue=0.5gph, Black=1.0gph, Red=2.0gph. Emitter Notes: 1 gal plant to receive 1 1.0 GPH emitter. 5 gal plant to receive 2 1.0 GPH emitters. 15 gal plant to receive 1 2.0 GPH emitter.	F/C-L-001

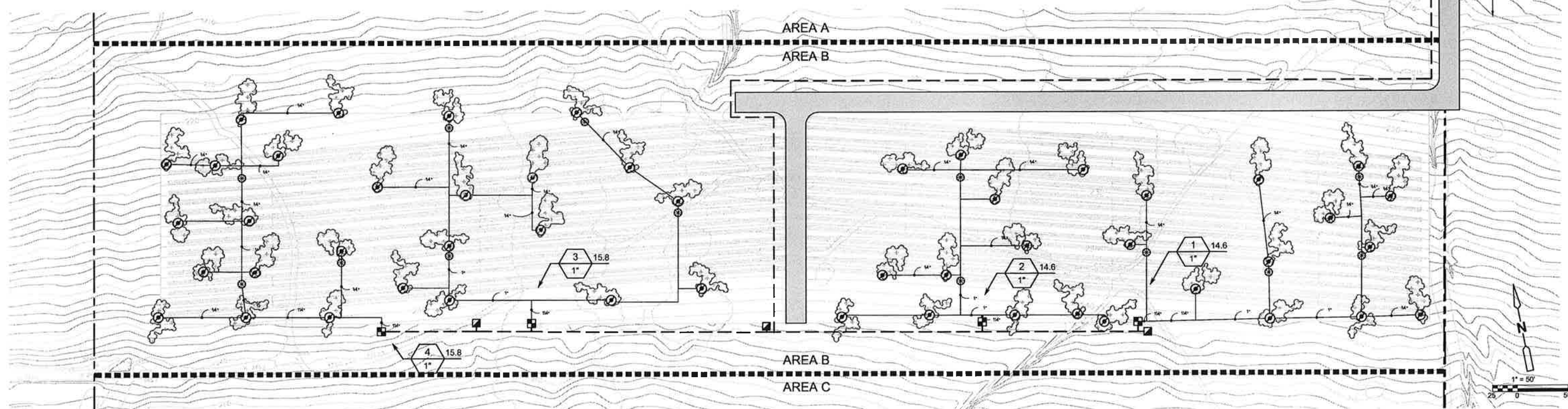
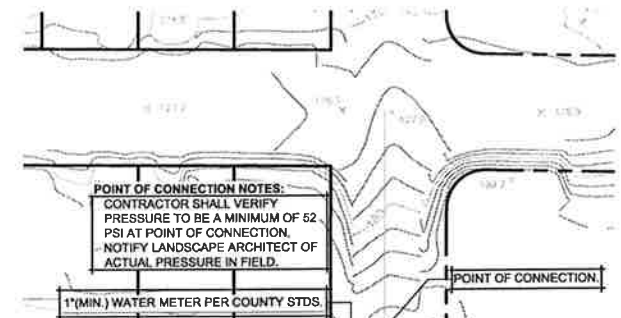
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
	Rain Bird 44LRC 1" Quick Coupler Valve, two piece body, locking cover	C/C-L-001
	Superior 3200 1-1/2" Normally closed, solid brass construction	C/C-L-001
	Febco 825Y 1-1/2" Reduced Pressure Backflow Preventer	A/C-L-001
	Toro TMC-212-OD Remote Valve Controller, 4-Station, Outdoor	G/C-L-001

	Toro TWRFS Wireless Rain/Freeze Sensor Transmitter and Receiver. Mount Sensor Transmitter as noted or approved, mount Sensor Receiver next to the Irrigation Controller as noted or approved, use controller power or optional transformer. Adjust shutoff points.	
	Toro Flow Sensor TFS-100	
	Rain Bird Booster Pump 5 HP 220V SINGLE PHASE, VFD PUMP	
	Water Meter 1-1/2" (Broderson POC) Assumed Pressure	
	Irrigation Lateral Line: PVC Schedule 40 PVC Schedule 40 irrigation pipe. Only lateral transition pipe sizes 1" and above are indicated on the plan, with all others being 3/4" in size.	A/C-L-002
	Irrigation Mainline: PVC Schedule 40	A/C-L-002



IRRIGATION NOTES

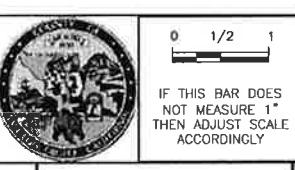
- IRRIGATION PLAN IS DIAGRAMMATIC. FINAL LOCATION OF PIPING WILL BE DETERMINED AT THE TIME OF INSTALLATION. MAINLINE AND LATERALS SHALL BE LOCATED IN THE SAME TRENCH WHEN POSSIBLE. ALL Q.C. VALVES ARE TO BE LOCATED 12" FROM SIDEWALKS, CURBS, ASPHALT & CONCRETE SURFACES.
- ALL EQUIPMENT REQUIRED BUT NOT SPECIFIED ON THE DRAWING, TO COMPLETE THE WORK, SHALL BE PROVIDED BY THE IRRIGATION CONTRACTOR. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND/OR SPECIFICATIONS.
- CONTRACTOR SHALL COORDINATE POWER TO CONTROLLERS AND DEDICATE ONE (1) 20 AMP BREAKER FOR EACH CONTROLLER. THE AUTHORIZED REPRESENTATIVE SHALL REVIEW CONTROLLER LOCATIONS PRIOR TO INSTALLATION. 120 VOLT SERVICE AND HOOK-UP TO THE CONTROLLER SHALL BE COMPLETED BY A LICENSED ELECTRICAL CONTRACTOR. THIS COST IS TO BE A PART OF THE LANDSCAPE CONTRACTOR'S BID.
- CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLANS AND SITE CONDITIONS PRIOR TO BEGINNING WORK. SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT BEFORE PROCEEDING WITH THE WORK IN QUESTION.
- DO NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY AT NO EXPENSE TO THE AUTHORIZED REPRESENTATIVE.
- SPLICING OF 24 VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 24" COIL OF EXCESS WIRE AT EACH SPLICE. LABEL ALL WIRES W/ WATERPROOF MARKERS AT ALL SPLICES AND VALVE MANIFOLDS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL MATERIAL APPEARING ON PLAN.
- CONTRACTOR SHALL MAKE ALL NECESSARY ADJUSTMENTS TO THE IRRIGATION SYSTEM FOLLOWING A PRECIPITATION TEST PER THE AUTHORIZED REPRESENTATIVE. ADJUSTMENTS SHALL INCLUDE BUT WILL NOT BE LIMITED TO: DRIP LINE RELOCATION, CHANGING/ADDING EMITTERS, ADJUSTING NOZZLES IN ORDER TO PROVIDE ADEQUATE WATER COVERAGE FOR PLANT MATERIAL AS DETERMINED BY THE AUTHORIZED REPRESENTATIVE.
- CONTRACTOR SHALL NOT INSTALL ANY PLANTING UNTIL THE FOLLOWING ARE COMPLETED: 1. THE IRRIGATION SYSTEM SHALL BE FULLY OPERATIONAL. 2. HYDROSTATIC PRESSURE TESTS SHALL BE PERFORMED ON MAIN AND LATERAL LINES. 3. ALL ZONES SHALL PASS A COVERAGE TEST. 4. CONTROLLERS SHALL BE FULLY OPERATIONAL.
- WATER METER SIZES PROVIDED CONSTITUTE THE MINIMUM SIZE REQUIRED FOR LANDSCAPE IRRIGATION PURPOSES. IF CONFLICTS OCCUR BETWEEN THESE PLANS AND CIVIL PLANS, THE LARGER METER SIZE SHALL PREVAIL.
- IRRIGATION DRIPLINE AND LATERAL LAYOUT PROVIDED BELOW IS SCHEMATIC AND WILL VARY IN FIELD BASED ON ACTUAL LOCATION OF PLANT GROUPINGS. MAINLINE AND VALVE LOCATIONS SHALL BE INSTALLED AS SHOWN.
- INSTALL CHECK VALVE ON LATERALS AS SHOWN AND AT EVERY 5 FT IN ELEVATION DROP. LINE SIZE.



REV. NO.	DATE	DRWN	CHKD	REMARKS

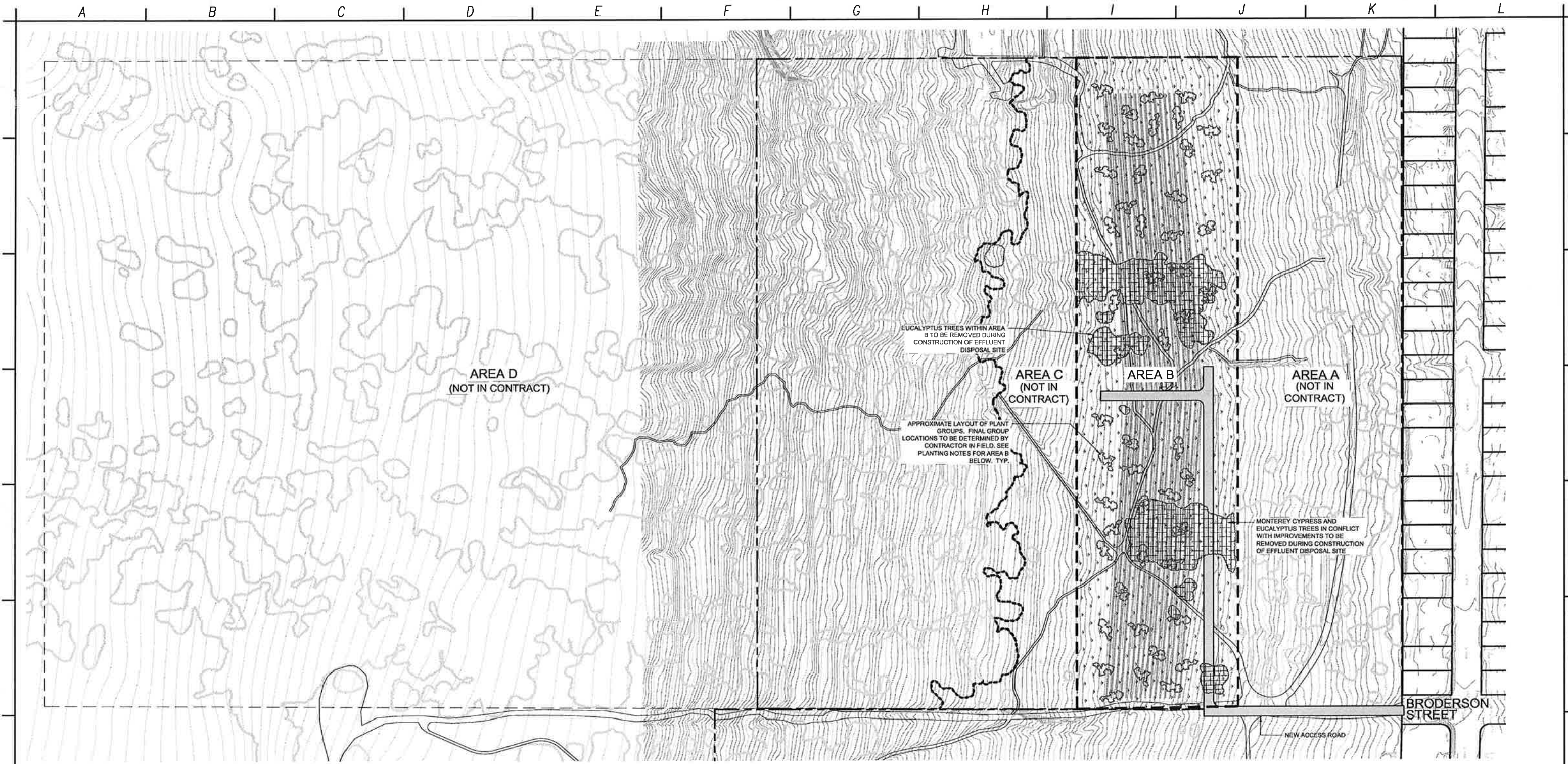
DESIGNED BY: B.M.O.
 DRAWN BY: C.D.
 CHECKED BY: T.K.
 DATE: April, 2012

CDM Camp Dresser & McKee Inc.
 2295 GATEWAY OAKS DRIVE
 SUITE 240
 SACRAMENTO, CA 95833
 Tel (916) 567-9900
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LOS OSOS WASTEWATER COLLECTION SYSTEM
 BRODERSON EFFLUENT DISPOSAL SITE
 IRRIGATION PLAN

PROJECT NO. 2011080
 FILE NAME:
 SHEET NO.
 C-L-102



PLANTING NOTES

The following Planting Notes are conditions set forth within the Habitat Management Plan for the Los Osos Wastewater Project (SWCA Environmental Consulting). The Contractor shall obtain and review the entire Habitat Management Plan prior to bidding the project to insure proper conformance.

- AREA A:** (10.30 acres) Not In Contract
- AREA B:** (10.28 acres) Much of the existing vegetation in this area will be disturbed during construction. In areas where Veldt grasses & non-native invasive species remain post finish grading, the Contractor shall apply grass specific herbicide. Post finish grading and weed abatement, the Contractor shall apply Seed Mix 3 to this area. Additionally, the Contractor shall install the following container plants in approximately 50 groups (30 plants per group) spread out across the overall area. Each group shall consist of approximately six of each species. See Detail E, Sheet C-L-003 for a typical grouping layout of plant material.

AREA B CONTAINER PLANT LIST

Botanical Name / Common Name	Container Size	Quantity	Detail
Artemisia californica / California Sage	1 Gal.	300	D/C-L-003
Baccharis pilularis / Coyote Bush	1 Gal.	300	D/C-L-003
Ceanothus cuneatus 'cuneatus' / Buckbrush	1 Gal.	300	D/C-L-003
Lupinus chamissonis / Dune Bush Lupine	1 Gal.	300	D/C-L-003
Salvia mellifera / Black Sage	1 Gal.	300	D/C-L-003

AREA C: (4.59 acres) Not In Contract

AREA D: (54.41 acres) Not In Contract

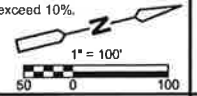
SYMBOL LEGEND

- SEED MIX 3 (Approx. 10.28 Acres) 2.00 PLS LBS/ AC
 - Achillea millefolium / Common Yarrow 0.50
 - Artemisia californica / California Sagebrush 0.05
 - Baccharis pilularis / Dwarf Coyote Bush 1.50
 - Eriocameria ericoides / California Goldenbush 1.50
 - Erigeron parvifolium / Cliff Buckwheat 0.50 *
 - Eriophyllum staechadifolium / Coastal Golden Yarrow 1.50
 - Hellanthemum scoparium / Rushrose 2.00
 - Isocoma menziesii decumbens / Decumbent Goldenbush 3.00
 - Lotus scoparius / California Deer Weed 2.50
 - Lupinus chamissonis / Dune Lupine 0.02 *
 - Mimulus aurantiacus / Sticky Monkey Flower 2.00
 - Salvia mellifera / Black Sage
- * Or as much as can be feasibly obtained within the approved collection area



GENERAL NOTES

- All material from tree removals shall be chipped and stockpiled on site for use as mulch where designated on HMP Sites.
- See Technical Specifications for irrigation and establishment.
- Provide trail linkages per the Habitat Management Plan.
- Verify limits of work with Habitat Management Plan prior to construction.
- Seed to be collected from local source/plants. See project Habitat Management Plan.
- Contractor to provide weed abatement per specifications. Maximum allowable tolerance for weeds shall not exceed 10%.



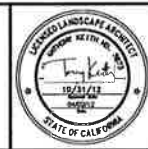
REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: B.M.O.
 DRAWN BY: C.D.
 CHECKED BY: T.K.
 DATE: April, 2012

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 consulting engineering construction operations
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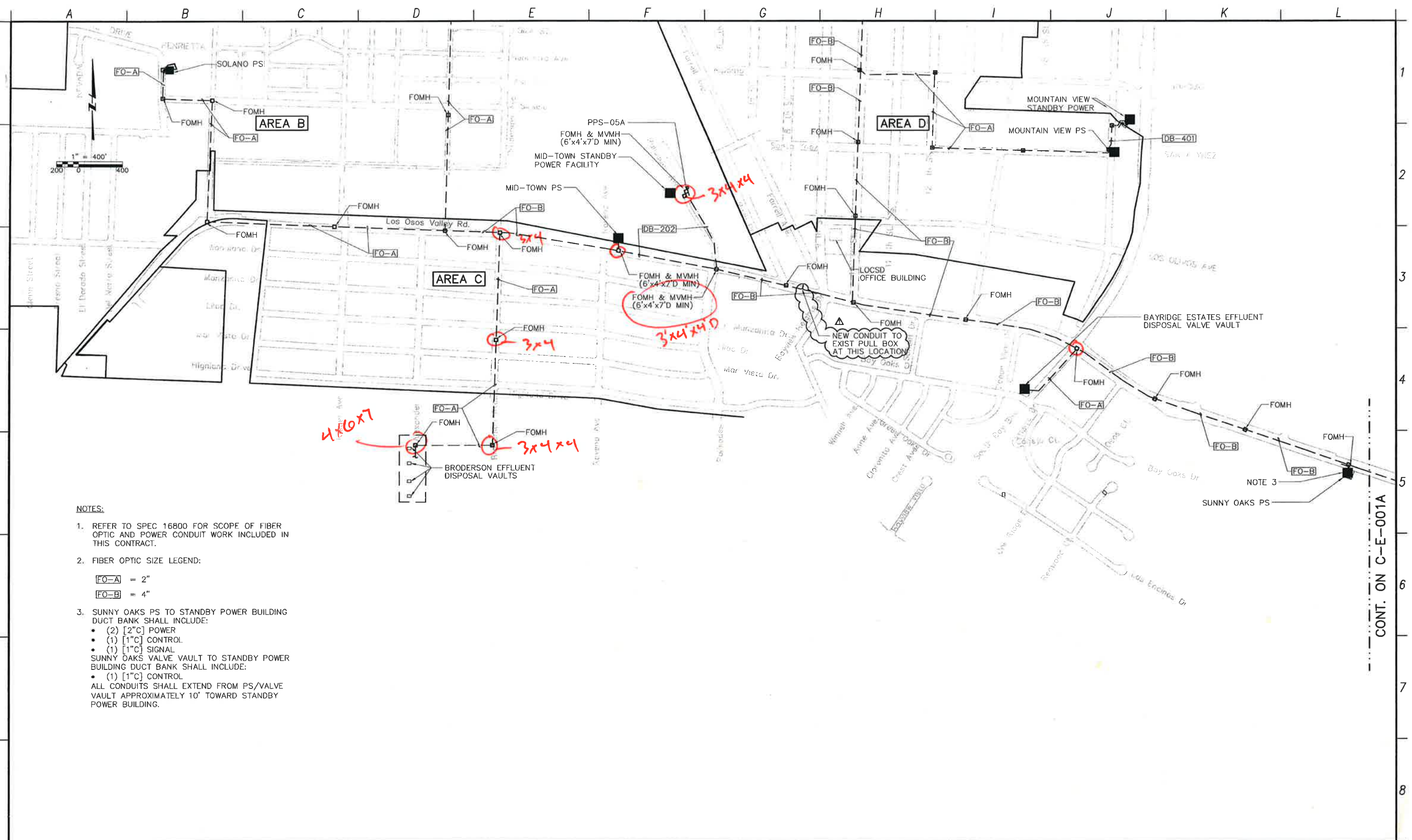
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 BRODERSON EFFLUENT DISPOSAL SITE
 PLANTING PLAN

PROJECT NO. 2011080
 FILE NAME:
 SHEET NO.
 C-L-103

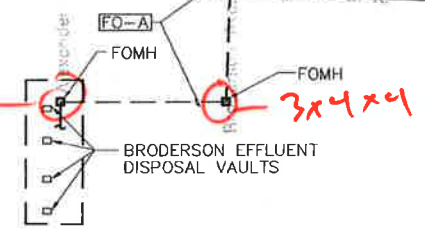
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NOTES:

- REFER TO SPEC 16800 FOR SCOPE OF FIBER OPTIC AND POWER CONDUIT WORK INCLUDED IN THIS CONTRACT.
- FIBER OPTIC SIZE LEGEND:
 - FO-A = 2"
 - FO-B = 4"
- SUNNY OAKS PS TO STANDBY POWER BUILDING DUCT BANK SHALL INCLUDE:
 - (2) [2\"C] POWER
 - (1) [1\"C] CONTROL
 - (1) [1\"C] SIGNAL
 SUNNY OAKS VALVE VAULT TO STANDBY POWER BUILDING DUCT BANK SHALL INCLUDE:
 - (1) [1\"C] CONTROL
 ALL CONDUITS SHALL EXTEND FROM PS/VALVE VAULT APPROXIMATELY 10' TOWARD STANDBY POWER BUILDING.

4x6x7



3x4x4

3x4x4 D

CONT. ON C-E-001A

REV. NO.	DATE	DRWN	CHKD	REMARKS
12/20/12	LLB	RLA		MEMO 115 - CONDUIT ROUTING

DESIGNED BY: CAL
 DRAWN BY: WKT
 CHECKED BY: GNM
 DATE: APRIL 2012

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 Sacramento, CA 95833
 Tel: (916) 567-9900



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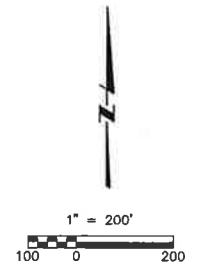
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LOS OSOS WASTEWATER COLLECTION SYSTEM
ELECTRICAL FIBER OPTIC AND POWER CONDUIT PLAN
 AREA C - SHEET 1 OF 2

PROJECT NO. 42502-83120
 FILE NAME: C-E-001
 SHEET NO.
C-E-001.1

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A B C D E F G H I J K L



CONT. ON C-E-001



- NOTES:**
- REFER TO SPEC 16800 FOR SCOPE OF FIBER OPTIC WORK INCLUDED IN THIS CONTRACT.
 - FIBER OPTIC SIZE LEGEND:
 FO-A = 2"
 FO-B = 4"
 - EXPOSED GALVANIZED STEEL CONDUIT FOR BRIDGE CROSSING. REFER TO STRUCTURAL DRAWINGS FOR CONDUIT MOUNTING DETAILS.
 - PROJECT INTERFACE POINT. CONTINUED TO WWTP UNDER SEPARATE PROJECT.

1
2
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5
6
7
8

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: _____ CAL
 DRAWN BY: _____ WKT
 CHECKED BY: _____ GNM
 DATE: APRIL 2012

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 Sacramento, CA 95833
 Tel: (916) 567-9900



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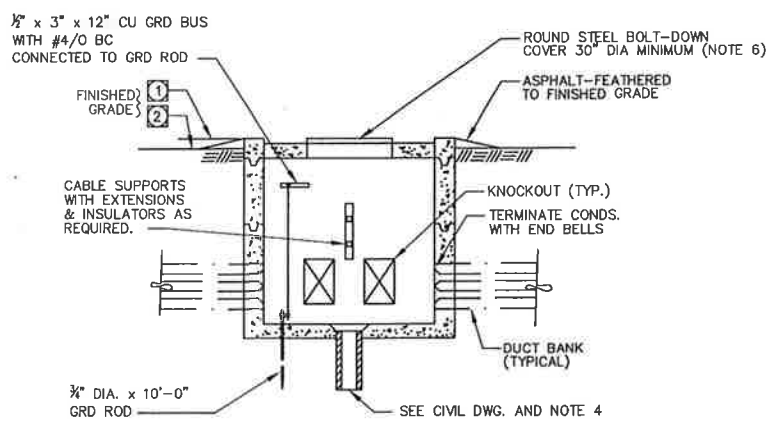


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ELECTRICAL FIBER OPTIC AND POWER CONDUIT PLAN
 AREA C - SHEET 2 OF 2

PROJECT NO. 42502-83120
 FILE NAME: C-E-001A
 SHEET NO.
C-E-001A

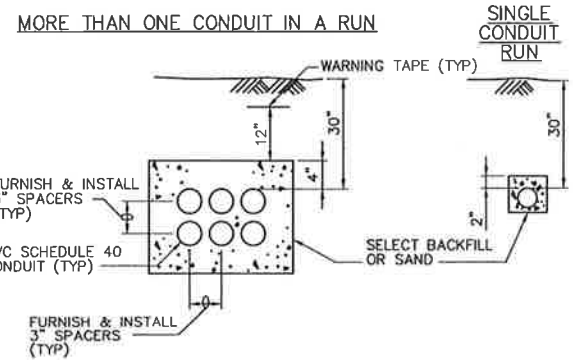
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TYPICAL PULLBOX/MANHOLE

E-102

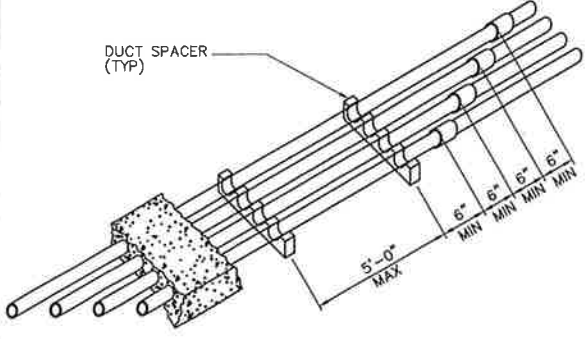
- NOTES:**
1. AT PAVED AREAS
 2. UNPAVED AREAS.
 3. PULL BOX INSTALLATION TO BE WATERTIGHT AFTER CONDUITS HAVE BEEN INSTALLED BY USING RAYCHEM RAYFLATE DUCT SEALING SYSTEM RDSS OR EQUAL.
 4. FOR MANHOLE/PULL BOX NOT SHOWN WITH DRAINAGE PIPING ON CIVIL DRAWINGS, PROVIDE A MINIMUM OF 5FT OF 4" PD TO A 5FT CUBED TYPE DRAIN ROCK WITH FILTER FABRIC AROUND.
 5. MANHOLE MINIMUM SIZE AS SHOWN ON DRAWINGS.
 6. PROVIDE COLLAR OR CHIMNEY IF REQUIRED TO RAISE GRADE.



TYPICAL DUCTBANK

E-103

- NOTES:**
1. REFER TO DRAWINGS FOR ACTUAL CONDUIT SIZE AND NUMBER.

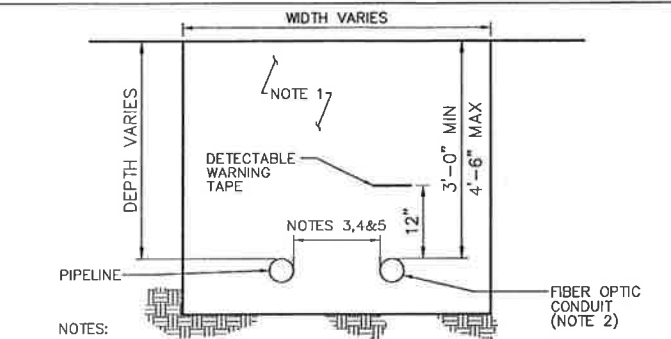


TYPICAL DUCTBANK

REV 042999 E-108

DETAIL SHEET NOTES:

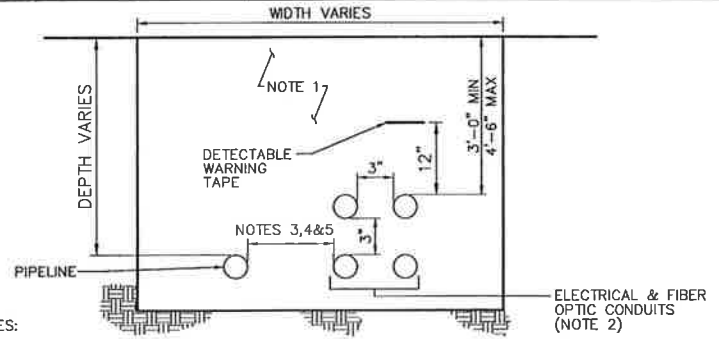
1. DETAILS SHALL BE USED IN ALL APPLICABLE LOCATIONS EVEN IF NOT SPECIFICALLY CALLED OUT ON THE DRAWINGS.



FIBER OPTIC CONDUIT IN PIPELINE TRENCH

REV 011312 E-701

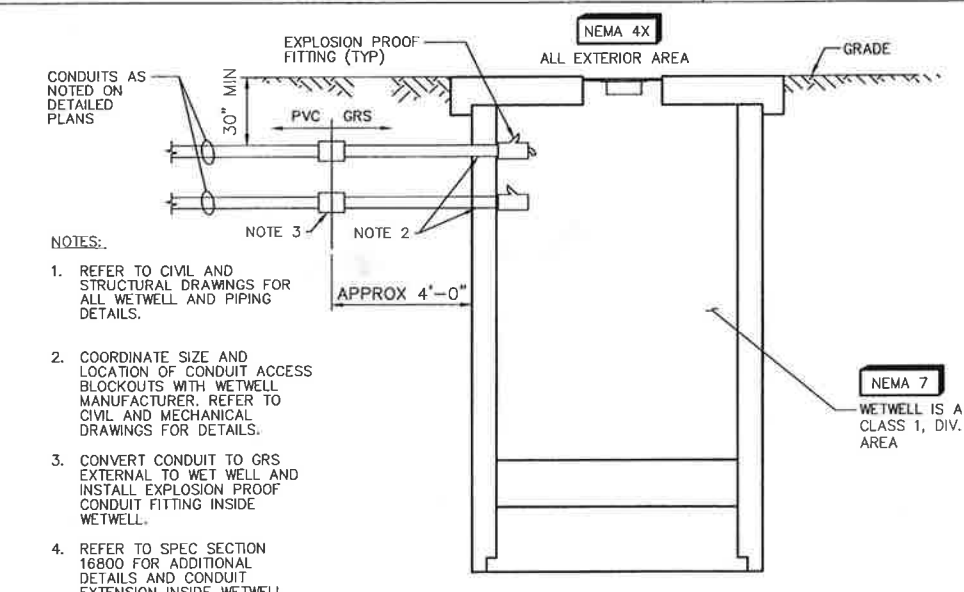
- NOTES:**
1. REFER TO CIVIL AND PIPELINE DRAWINGS FOR FOR ALL TRENCH DETAILS.
 2. CONDUIT SIZE AS DETAILED ON ELECTRICAL AREA PLANS.
 3. MINIMUM OFFSET FROM FORCE MAIN PIPE = 6".
 4. MINIMUM OFFSET FROM GRAVITY SEWER = 3'-0".
 5. MINIMUM OFFSET FROM ALL PIPELINE MANHOLE = 12"



POWER & FIBER OPTIC CONDUIT IN PIPELINE TRENCH

REV 011312 E-702

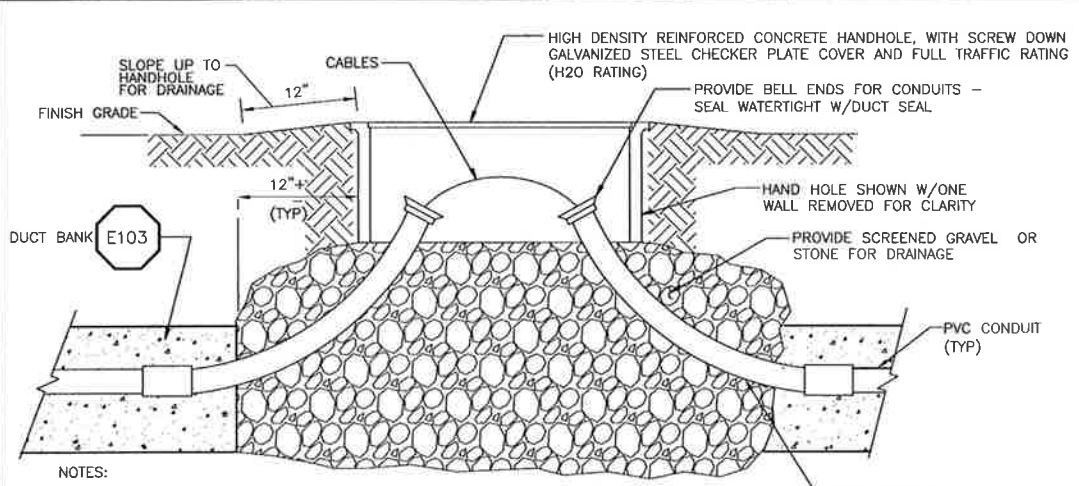
- NOTES:**
1. REFER TO CIVIL AND PIPELINE DRAWINGS FOR FOR ALL TRENCH DETAILS.
 2. CONDUIT SIZE AS DETAILED ON ELECTRICAL AREA PLANS.
 3. MINIMUM OFFSET FROM FORCE MAIN PIPE = 6".
 4. MINIMUM OFFSET FROM GRAVITY SEWER = 3'-0".
 5. MINIMUM OFFSET FROM ALL PIPELINE MANHOLE = 12"



WET WELL & VALVE VAULT CONDUIT ENTRANCE (NOTE 1)

E-703

- NOTES:**
1. REFER TO CIVIL AND STRUCTURAL DRAWINGS FOR ALL WETWELL AND PIPING DETAILS.
 2. COORDINATE SIZE AND LOCATION OF CONDUIT ACCESS BLOCKOUTS WITH WETWELL MANUFACTURER. REFER TO CIVIL AND MECHANICAL DRAWINGS FOR DETAILS.
 3. CONVERT CONDUIT TO GRS EXTERNAL TO WET WELL AND INSTALL EXPLOSION PROOF CONDUIT FITTING INSIDE WETWELL.
 4. REFER TO SPEC SECTION 16800 FOR ADDITIONAL DETAILS AND CONDUIT EXTENSION INSIDE WETWELL.



TYPICAL FOMH (FIBER OPTIC MANHOLE)

E104

- NOTES:**
1. LIDS SHALL BE MARKED "FOMH" WITH ARC WELD OR SIMILAR PERMANANT METHOD.
 2. NOMINAL MINIMUM INSIDE SIZE OF HANDHOLE 24"W X 36"L X 14"D UNLESS NOTED OTHERWISE. SEE SPECIFICATIONS FOR ADDITIONAL DETAIL.

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: CAL
 DRAWN BY: JAW
 CHECKED BY: GNM
 DATE: APRIL 2012

CDM Smith
 2285 Gateway Oaks Drive, Suite 240
 Sacramento, CA 95833
 Tel: (916) 567-9900



0 1/2 1
 IF THIS BAR DOES NOT MEASURE 1" THEN ADJUST SCALE ACCORDINGLY



DIGALERT
 CALL TOLL FREE 1-800-642-2444
 AT LEAST TWO DAYS BEFORE YOU DIG
 UNDERGROUND SERVICE ALERT OF NORTHERN CALIFORNIA

LOS OSOS WASTEWATER COLLECTION SYSTEM
ELECTRICAL DETAILS

PROJECT No. 42502-83120
 FILE NAME: C-E-002
 SHEET NO.
C-E-002