

PROJECT PLANS FOR CONSTRUCTION OF MERCY SPRINGS SEWER LINE REPLACEMENT

CITY OF LOS BANOS
To be supplemented by CalTrans 2010 Standard Plans and Standard Specifications

BENCHMARK

VERTICAL AND HORIZONTAL DATUM:

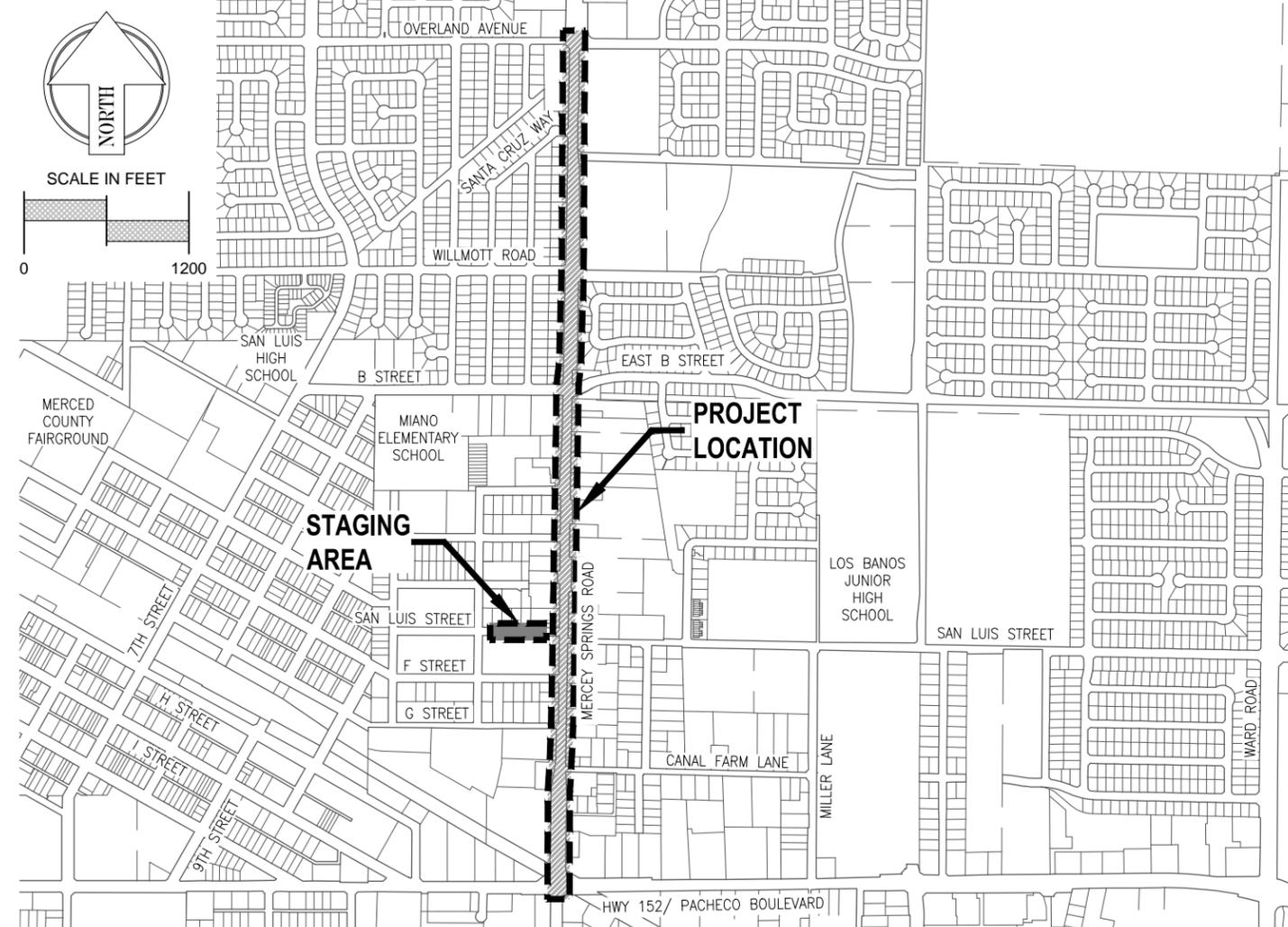
VERTICAL AND HORIZONTAL DATUM INFORMATION WAS TAKEN FROM THE NGS DATA SHEET FOR PID HS5126.
VERTICAL DATUM: NAVD88
ELEVATION: 120.96'
HORIZONTAL DATUM: NAD83-2011, CALIFORNIA SPCS, ZONE 3

DESCRIPTION: STATION IS LOCATED ON THE EAST SIDE OF LOS BANOS, AT THE LOS BANOS MUNICIPAL AIRPORT, IN THE MEDIAN OF THE RUNWAY AND THE PARALLEL TAXI, NEAR THE FRONT VASI FOR RUNWAY 32. TO REACH THE JUNCTION OF STATE HIGHWAY 152 AND WEST I STREET ON THE WEST SIDE OF LOS BANOS, GO NORTHEAST ON WEST I STREET FOR 0.06 MI TO A PAVED ROAD LEFT. TURN LEFT, SOUTHWEST, ON PAVED ROAD FOR 0.25 MI TO A LOCKED GATE ON THE RIGHT. TURN RIGHT, NORTHEAST, THROUGH GATE, PASSING TO RIGHT OF FUEL PUMPS, ACROSS APRON FOR 0.05 MI TO THE PARALLEL TAXI. TURN LEFT, NORTHWEST, ON TAXI FOR 0.06 MI TO THE STATION ON THE RIGHT. STATION MARK IS SET IN THE TOP OF A 30-CM ROUND CONCRETE POST FLUSH WITH THE GROUND ON A SLIGHT HUMP IN A BARE AREA. IT IS 142.1 FT SOUTHWEST OF THE RUNWAY CENTER, 103.3 FT NORTHEAST OF THE EDGE OF THE APRON/TAXI, 26.6 FT SOUTHWEST OF THE SOUTH CORNER OF THE CONCRETE PAD FOR THE OUTBOARD VASI, 73.8 FT NORTHWEST OF THE EXTENDED SOUTHEAST WALL OF A HANGAR AND 1.3 FT NORTHWEST OF A FIBERGLASS WITNESS POST.

LEGEND

	EXISTING	PROPOSED
UNDERGROUND COMMUNICATIONS LINE	— COM —	
UNDERGROUND ELECTRICAL LINE	— E —	
OVERHEAD UTILITY LINE	— OHL —	
POWER POLE		
STREET LIGHT		
GAS VALVE		
GAS LINE	— G —	
WATER METER		
FIRE HYDRANT		
WATER VALVE		
SANITARY SEWER MANHOLE		
STORM DRAIN MANHOLE		
DRAIN INLET		
STREET SIGN		
TRAFFIC SIGNAL		
MONUMENT WELL		
CONTOUR ELEVATION	109.50	
DIRECTION OF TRAVEL		
CONE/DELINEATOR		
CONCRETE		
AC TRENCH REPAIR		

FOR CLARITY PURPOSES SYMBOLS SHOWN IN THE LEGEND MAY APPEAR SMALLER THAN SHOWN ON THE PLANS.



INDEX OF DRAWINGS

1	LOCATION MAP AND INDEX OF DRAWINGS
2	ABBREVIATIONS AND PROJECT NOTES
3	PLAN AND PROFILES KEY SHEET
4	PLAN AND PROFILE STA. 10+00 TO 14+00
5	PLAN AND PROFILE STA. 14+00 TO 18+00
6	PLAN AND PROFILE STA. 18+00 TO 22+00
7	PLAN AND PROFILE STA. 22+00 TO 26+00
8	PLAN AND PROFILE STA. 26+00 TO 30+00
9	PLAN AND PROFILE STA. 30+00 TO 34+00
10	PLAN AND PROFILE STA. 34+00 TO 38+00
11	PLAN AND PROFILE STA. 38+00 TO 42+00
12	PLAN AND PROFILE STA. 42+00 TO 46+00
13	PLAN AND PROFILE STA. 46+00 TO 50+00
14	PLAN AND PROFILE STA. 50+00 TO 54+00
15	PLAN AND PROFILE STA. 54+00 TO 58+00
16	PLAN AND PROFILE STA. 58+00 TO 62+00
17	PLAN AND PROFILE STA. 62+00 TO 66+00
18	PLAN AND PROFILE STA. 66+00 TO 70+00
19	PLAN AND PROFILE STA. 70+00 TO 73+00
20	STRIPING PLAN
21	OVERALL TRAFFIC MANAGEMENT PLAN
22	TYPICAL LANE SHIFT WITHOUT TYPE K RAILING
23	TRAFFIC MANAGEMENT PLAN
24	TYPICAL LANE SHIFT WITH TYPE K RAILING
25	TRAFFIC MANAGEMENT PLAN FOR SR-165 AT THE B STREET INTERSECTION
26	TRAFFIC MANAGEMENT PLAN FOR SR-165 AT THE SR-152 INTERSECTION
27	TRAFFIC MANAGEMENT PLAN FOR SR-152 AT THE SR-165 INTERSECTION
28	DETOUR PLAN FOR EASTBOUND TRAFFIC ON SR-152
29	DETOUR PLAN FOR WESTBOUND TRAFFIC ON SR-152
30-31	DETOUR PLAN FOR NORTHBOUND TRAFFIC ON SR-165
32	DETOUR PLAN FOR SOUTHBOUND TRAFFIC ON SR-165
33	TRENCH BACKFILL AND SEWER CONSTRUCTION DETAILS
34	MISCELLANEOUS CONSTRUCTION DETAILS
35	TRAFFIC CONTROL DETAILS

CALTRANS CONTACT

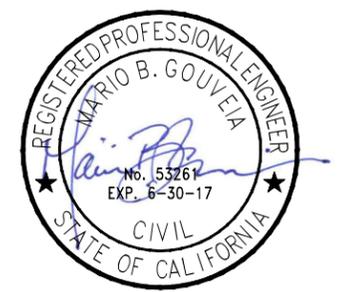
BOB GILL
P.O. BOX 3558
MERCED, CA 95344
MAIN (209) 394-8725
CELL (209) 482-0066

UTILITY CONTACTS

PG&E-	STEVE MURPHY 3185 M STREET MERCED, CA 95348	MAIN (209) 726-6338 CELL (209) 363-2216
AT&T-	TROY BRANIFF 1860 W WARDROBE AVE MERCED, CA 95341	MAIN (209) 726-7137



Know what's below.
Call before you dig.



Plan sheets in this plan set are full size when printed on 11x17 size sheets without an exaggeration. The bar scale should be used to check plan sheet scale.

OWNERSHIP OF DOCUMENTS
THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

GOUVEIA ENGINEERING, INC.
CONSULTING ENGINEERS
456 Sixth Street • Gustine, California 95322
Telephone (209) 854-3300 • Fax (209) 854-3600

CITY OF LOS BANOS
MERCY SPRINGS SEWER LINE REPLACEMENT
LOCATION MAP AND INDEX OF DRAWINGS

DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-101
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 1
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02

ABBREVIATIONS

ABBREVIATIONS	DESCRIPTION
±	PLUS OR MINUS (NOT EXACT)
@	AT
AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
ACP	ASBESTOS CEMENT PIPE
AP	ANGLE POINT
ARV	AIR RELEASE VALVE
BC	BEGINNING OF CURVE
BNDY	BOUNDARY
BO	BLOW-OFF
BP	BYPASS
BOW	BACK OF SIDEWALK
CL	CENTERLINE
C&G	CURB AND GUTTER
CB OR CBSN	CATCH BASIN
CLR	CLEAR
CO	CLEAN OUT
CLB	CITY OF LOS BANOS
C OR CONC	CONCRETE
CONT	CONTINUOUS
CORP	CORPORATION
D OR SD	STORM DRAIN
Ø OR DIA	DIAMETER
EA	EACH
EC	END OF CURVE
EG	EXISTING GROUND
EL	ELBOW
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
EQ	EQUAL OR EQUIVALENT
EX OR EXIST	EXISTING
EW	EACH WAY
FH	FIRE HYDRANT
FL	FLOW LINE
FOC	FACE OF CURB
FT	FOOT OR FEET
GB	GRADE BREAK
HDPE	HIGH DENSITY POLYETHYLENE
HGL	HYDRAULIC GRADE LINE
HORIZ	HORIZONTAL
HP	HIGH POINT
ID	INSIDE DIAMETER
INV	INVERT
IRR	IRRIGATION
LF	LINEAR FEET
LT	LEFT
MAX	MAXIMUM
MH	MAINTENANCE HOLE
MIN	MINIMUM
N	NORTH
NO OR #	NUMBER
NTS	NOT TO SCALE
OC OR O.C.	ON CENTER
OD	OUTSIDE DIAMETER
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PSI	POUNDS PER SQUARE INCH
PT	POINT
PVC	POLYVINYL CHLORIDE PIPE
R	RADIUS
R/W	RIGHT OF WAY
RCP	REINFORCED CONCRETE PIPE
RT	RIGHT
SW	SIDEWALK
SCH	SCHEDULE
SDMH	STORM DRAIN MAINTENANCE HOLE
SF	SQUARE FEET
SHT	SHEET
SQ	SQUARE
SS OR S	SANITARY SEWER
SSMH	SANITARY SEWER MAINTENANCE HOLE
STA	STATION
STD	STANDARD
TEMP	TEMPORARY
TYP	TYPICAL
VERT	VERTICAL
W	WATER
WW	WATER VALVE

TRAFFIC MANAGEMENT AND DETOUR NOTES

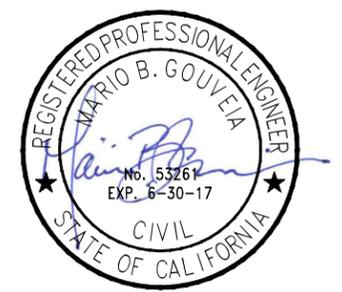
- CONSTRUCTION SHALL BE PERFORMED IN SEGMENTS. SEGMENTS WILL BE LIMITED TO A MAXIMUM LENGTH OF TRENCHING THAT CAN BE EXCAVATED AND BACKFILLED IN A SINGLE CONSTRUCTION SHIFT.
- PROJECT WORK HOURS ARE:
DAYTIME WORK MON - FRI 7AM - 5PM
NIGHT WORK SUN - THURS 10PM - 6AM
- THE TRAFFIC MANAGEMENT PLAN (TMP) IS INTENDED TO SHOW TYPICAL LAYOUTS OF THE TRAFFIC CONTROL DEVICES BEING USED DURING THE CONSTRUCTION OF EACH PROJECT SEGMENT. THE TEMPORARY TRAFFIC CONTROL MEASURES WILL BE CONTINUALLY SHIFTED ALONG THE CONSTRUCTION ALIGNMENT TO ACCOMMODATE THE WORK AREA FOR EACH SEGMENT.
- THE 2014 CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) WAS USED TO DESIGN THIS TRAFFIC CONTROL PLAN. THE FOLLOWING SECTIONS ARE SPECIFICALLY REFERENCED: TABLE 6C-1, TABLE 6C-3(CA), TABLE 6F-101(CA), SECTIONS 6G.08-10,13,&19.
- THE CONTRACTOR SHALL COORDINATE TRAFFIC CONTROL EFFORTS IN ACCORDANCE WITH THE APPROVED ENCROACHMENT PERMIT WITH THE CALTRANS FIELD ENGINEER, PUBLIC WORKS DEPARTMENT, AND THE RECORD ENGINEER DURING ALL PHASES OF CONSTRUCTION.
- THE CONTRACTOR IS REQUIRED TO MAINTAIN 1 TRAVEL LANE IN EACH DIRECTION AND EMERGENCY VEHICLE ACCESS AT ALL TIMES.
- ALL SIGNS AND TRAFFIC CONTROL DEVICES BEING USED SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE MUTCD. THE EXACT LOCATIONS OF SIGNS SHALL BE DETERMINED BY THE CALTRANS FIELD ENGINEER.
- THE CONTRACTOR SHALL HAVE ALL SIGNS, DELINEATORS, BARRICADES, ETC., PROPERLY PLACED PRIOR TO COMMENCING CONSTRUCTION AND SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING THE TRAFFIC CONTROL DEVICES BEING IMPLEMENTED THROUGHOUT THE PROJECT.
- WHEN WORK IS NOT BEING PERFORMED, ALL ROADWAYS SHALL BE RETURNED TO THEIR FULL TRAFFIC USAGE BY PLATING OPEN TRENCHES AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES USED FOR TRAFFIC CONTROL OR DETOUR.
- REFLECTIVE TABS ARE NOT ACCEPTABLE TO BE USED AS TEMPORARY DELINEATION DEVICES.
- CONES/DELINEATORS ARE TO BE SPACED TO PROVIDE 3' CLEARANCE FROM THE WORK AREA AND TO PROVIDE 12' CLEAR TRAVEL LANES. IF A 12' TRAVEL LANE IN EACH DIRECTION CAN NOT BE MAINTAINED WORK WILL BE RESTRICTED TO NIGHT WORK IN THE AFFECTED SECTION. THE WORK AREA IS DEFINED AS THE AREA WHERE WORKERS, EQUIPMENT, MATERIALS, AND THE PROPOSED WORK IS OCCURRING.
- CONE/DELINEATOR SPACING SHALL NOT EXCEED 50' ON THE TANGENT SECTIONS WITHIN THE WORK AREA AND 20' FOR TAPERS UNLESS NOTED OTHERWISE ON THE PLANS. AT THE INTERSECTIONS THE CONE/DELINEATOR SPACING SHALL BE REDUCED TO THE SPACING SHOWN ON THE PLANS OR AS SPECIFIED BY THE CALTRANS FIELD ENGINEER. MUTCD REFERENCE TABLE 6F-101(CA).
- THE CONTRACTOR SHALL DIRECT PEDESTRIANS TO USE ALTERNATE CROSSWALKS WHILE CONSTRUCTION IS TAKING PLACE WITHIN A CROSSWALK.
- THE CONTRACTOR SHALL NOTIFY ALL DRIVEWAY OWNERS WITHIN THE AFFECTED AREA AT LEAST 2 FULL BUSINESS DAYS PRIOR TO ANY ROAD CLOSURE.
- THE CONTRACTOR SHALL COORDINATE CHANGES TO THE TRAFFIC SIGNAL CONFIGURATION THROUGHOUT THE PROJECT AREA WITH THE CALTRANS FIELD ENGINEER PRIOR TO ANY WORK. TRAFFIC SIGNALS EFFECTED BY CONSTRUCTION ACTIVITIES WILL BE SET TO A TIMER MODE UNTIL THE AFFECTED TRAFFIC LOOPS CAN BE RESTORED.
- TRAFFIC SIGNALS ARE REQUIRED TO REMAIN IN OPERATION DURING DAYTIME WORKING HOURS AND WILL NOT BE SET TO A FLASHING MODE.
- IN ADDITION TO THE STANDARD SIGNAGE, PROGRAMMABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE SET UP ONE WEEK IN ADVANCE OF CONSTRUCTION, CAUTIONING MOTORIST TO EXPECT DELAYS/DETOURS AND TIME/DATES OF THE DETOUR REQUIRED AT THE INTERSECTION OF SR 165 AND SR 152.
- ANY PROPOSED CHANGES TO THE APPROVED TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CITY OF LOS BANOS AND BY THE CALTRANS FIELD ENGINEER.

GENERAL NOTES

- THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS".
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN ENCROACHMENT PERMIT FROM CALTRANS PRIOR TO PERFORMING ANY WORK.
- EXISTING UTILITY LOCATIONS ARE SHOWN BASED ON USA MARKINGS COLLECTED IN THE FIELD AND RECORD INFORMATION. ACTUAL BUILT LOCATIONS MAY VARY. THE ENGINEER DOES NOT GUARANTEE THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE PLANS TO BE EITHER TRUE OR EXACT. THE CONTRACTOR SHALL VERIFY ACTUAL DEPTH AND EXACT LOCATION OF EXISTING UTILITIES PRIOR TO EXCAVATION ACTIVITIES. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHILE EXCAVATING IN AREAS NEAR NATURAL GAS, TV, PHONE, AND OTHER EXISTING UTILITIES AND IS RESPONSIBLE FOR ALL COSTS RELATED TO DAMAGED LINES OR DISRUPTION OF SERVICE CAUSED BY ANY ACTIVITIES AS THEY RELATE TO THIS PROJECT.
- CALTRANS UNDERGROUND FACILITIES ARE NOT LOCATED AS PART OF THE USA CALL BEFORE YOU DIG PROCESS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A LOCATION SERVICE TO LOCATE ALL EXISTING CALTRANS UNDERGROUND FACILITIES WITHIN THE PROJECT AREA PRIOR TO EXCAVATION ACTIVITIES. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS RELATED TO DAMAGED UNDERGROUND FACILITIES CAUSED BY ANY ACTIVITIES AS THEY RELATE TO THIS PROJECT.
- THE CONTRACTOR SHALL BE AWARE OF EXISTING OVERHEAD UTILITY LINES AND SHALL EXERCISE CAUTION WHILE WORKING NEAR SUCH LINES. OVERHEAD UTILITY LINES HAVE BEEN OMITTED FROM PLANS FOR CLARITY PURPOSES.
- THE CONTRACTOR SHALL EXERCISE CARE TO MINIMIZE DAMAGE TO FACILITIES ADJACENT TO PROJECT IMPROVEMENTS SUCH AS EQUIPMENT, FENCING, CONCRETE FLATWORK, LANDSCAPING, LANDSCAPE IRRIGATION, ECT., DESIGNATED TO REMAIN.
- ANY FACILITIES DAMAGED BY THE CONTRACTOR SHALL BE RESTORED IN KIND AT NO COST TO THE CITY TO THEIR ORIGINAL PRE-CONSTRUCTION CONDITION OR BETTER. DISTURBED AND DAMAGED SURFACES SHALL BE RESTORED AFTER ALL CONSTRUCTION IS COMPLETE AND PRIOR TO CITY ACCEPTANCE.
- UTILITY CONFLICTS ARE TO BE WORKED OUT IN THE FIELD WITH THE PROJECT ENGINEER AND CITY REPRESENTATIVE.
- IN INSTANCES WHERE RESTORATION OF THE PAVEMENT IMPACTS ADJACENT FACILITIES SUCH AS EXISTING UTILITY FRAMES AND COVERS, THOSE FACILITIES SHALL BE RAISED TO GRADE AS PART OF THE PROJECT IMPROVEMENTS EVEN IF NOT SHOWN OR ACCOUNTED FOR IN THE PROJECT PLANS AND SPECIFICATIONS.
- WHERE EXCAVATIONS ARE 5 FEET DEEP OR GREATER THE CONTRACTOR IS REQUIRED TO OBTAIN A CAL-OSHA PERMIT AND PREPARE A SHORING PLAN FOR THE EXCAVATION. THE SHORING PLAN SHALL BE PREPARED, SIGNED, AND STAMPED BY A REGISTERED CALIFORNIA CIVIL ENGINEER. A COPY OF THE PLAN IS TO BE PROVIDED TO THE STATE REPRESENTATIVE IN THE FIELD BEFORE CONSTRUCTION BEGINS.
- CONSTRUCTION TRENCHES THAT ARE REQUIRED TO REMAIN OPEN OVERNIGHT MUST HAVE STEEL TRAFFIC PLATE(S) WITH A NON-SKID SURFACE SECURELY INSTALLED. THESE PLATES SHALL BE INSTALLED PER THE CALTRANS PERMIT REQUIREMENTS FOR (602.1) TEMPORARY STEEL PLATE BRIDGING-WITH A NON SKID SURFACE.
- STEEL PLATES GREATER THAN 5 FEET 3 INCHES WIDE SHALL BE DESIGNED BY A REGISTERED CALIFORNIA CIVIL ENGINEER.
- TYPE K RAILING WILL BE USED TO MAINTAIN THE SAFE SEPARATION BETWEEN THE TRAVEL WAY AND THE WORK AREA IN AREAS WHERE MAINTAINING ACCESS TO RESIDENTS OR BUSINESSES IS NOT A PROJECT CONCERN AND THE MINIMUM DISTANCE FROM THE EXCAVATION TO THE NEAREST OPEN TRAVEL LANE CAN NOT BE MAINTAINED. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH SECTION 7-1.04 PUBLIC SAFETY IN THE CALTRANS STANDARDS AND SPECIFICATIONS.
- IN AREAS WHERE MAINTAINING ACCESS TO RESIDENTS OR BUSINESSES IS OF CONCERN AND NO SAFE ALTERNATE ACCESS IS AVAILABLE, THE USE OF A SHADOW VEHICLE AND FLAGGERS WILL BE REQUIRED. TEMPORARY STEEL TRAFFIC PLATES WILL ALSO BE REQUIRED TO BE ON HAND AND USED IN THE EVENT NO ALTERNATE ACCESS IS AVAILABLE AND CROSSING THE TRENCH IS REQUIRED. IN THESE AREAS TRENCHING WILL BE LIMITED TO 100 LF OF OPEN TRENCH AT ANY GIVEN TIME.

GENERAL NOTES (Continued)

- CONTRACTOR SHALL FURNISH AND OPERATE NECESSARY PUMPING AND BYPASS EQUIPMENT TO MAINTAIN SEWER SERVICE AT ALL TIMES. SEWER VACUUM TRUCKS SHALL BE USED DURING WORK HOURS TO BYPASS FROM THE UPSTREAM MANHOLE TO A MANHOLE DESIGNATED BY THE CITY PUBLIC WORKS DEPARTMENT. THE CONTRACTOR IS REQUIRED TO HAVE A MINIMUM OF 2 FUNCTIONAL VACUUM TRUCKS ON SITE FOR HANDLING BYPASS OPERATIONS. OVERNIGHT BYPASS PUMPING WILL BE ALLOWED ONLY WITH PRIOR APPROVAL FROM THE CITY PUBLIC WORKS DEPARTMENT.
- THE CONTRACTOR SHALL CONNECT AND CONCEAL SEWER LINE IMPROVEMENTS AT THE END OF EACH WORKING DAY.
- THE CONTRACTOR SHALL MAINTAIN SEWER SERVICE TO RESIDENTS AT ALL TIMES EXCEPT WHEN A SHUTDOWN IS REQUIRED FOR INSTALLATION OF THE NEW SEWER LINE. SHUTDOWNS SHALL BE COORDINATED WITH THE CITY PUBLIC WORKS DEPARTMENT AT LEAST 2 FULL BUSINESS DAYS IN ADVANCE.
- ALL EXISTING SEWER SERVICES ARE TO BE TRANSFERRED FROM THE EXISTING LINES EVEN IF NOT SHOWN OR ACCOUNTED FOR IN THE PROJECT PLANS AND SPECIFICATIONS.
- MAINTAIN A MINIMUM VERTICAL CLEARANCE OF 12 INCHES AT ALL UTILITY CROSSINGS. CONTRACTOR SHALL COMPLY WITH WATER AND SEWER SEPARATION REQUIREMENTS PER CITY OF LOS BANOS STANDARDS AND DEPARTMENT OF WATER RESOURCES, DRINKING WATER PROGRAM REGULATIONS UNLESS OTHERWISE NOTED ON THESE PLANS.
- CONTRACTOR SHALL RESTORE ANY AND ALL STRIPING, PAVEMENT MARKINGS, SIGNAGE, AND TRAFFIC SIGNAL LOOPS DAMAGED OR REMOVED DURING CONSTRUCTION TO CALTRANS STANDARDS AND TO THE SATISFACTION OF THE CALTRANS FIELD ENGINEER.



May 02 2016 - 1:44pm
 V:\C\161830\2\cad\plm\set\161830\2C-101.dwg

REV	DATE	DESCRIPTION	INTL

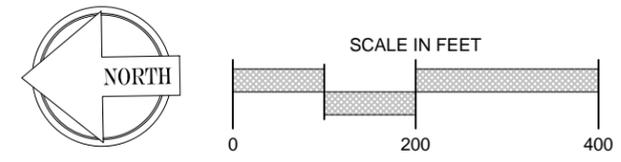
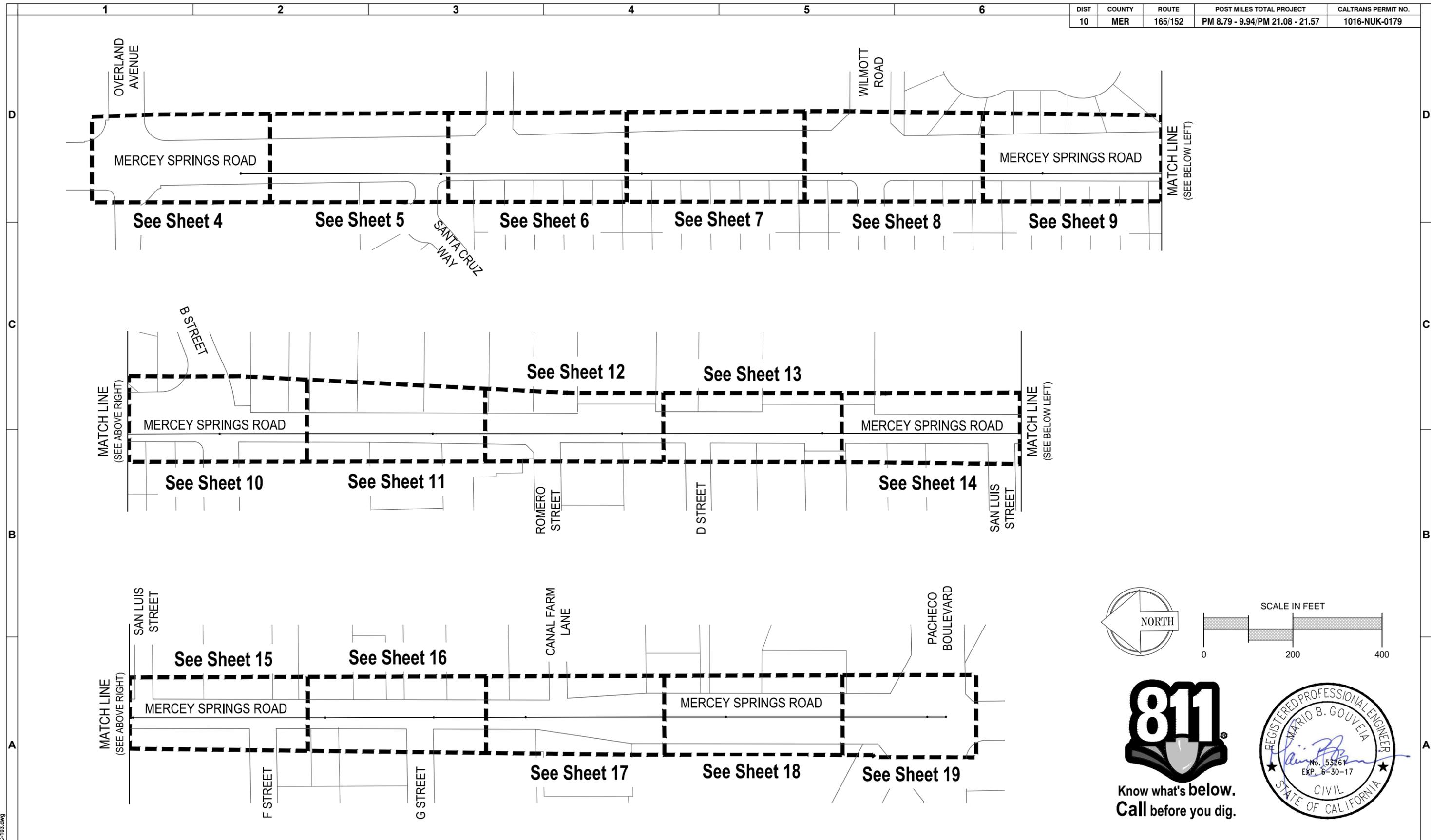
OWNERSHIP OF DOCUMENTS
 THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

GOUVEIA ENGINEERING, INC.
 CONSULTING ENGINEERS
 456 Sixth Street • Gustine, California 95322
 Telephone (209) 854-3300 • Fax (209) 854-3600

CITY OF LOS BANOS
MERCY SPRINGS SEWER LINE REPLACEMENT
ABBREVIATIONS AND PROJECT NOTES

DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-102
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 2
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	CALTRANS PERMIT NO.
10	MER	165/152	PM 8.79 - 9.94/PM 21.08 - 21.57	1016-NUK-0179



May 02, 2016 - 2:13pm
 V:\C\161502\cad\plm\et18302C-103.dwg

REV	DATE	DESCRIPTION	INTL

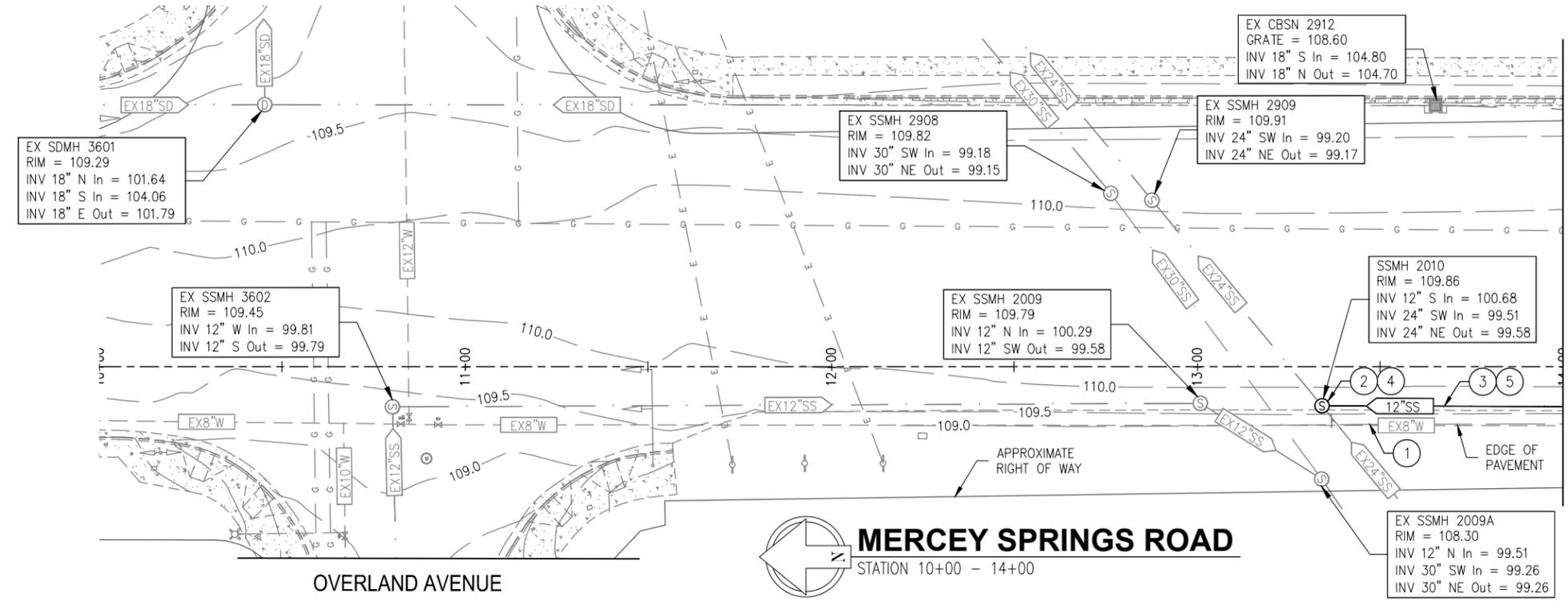
OWNERSHIP OF DOCUMENTS
 THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

GOUVEIA ENGINEERING, INC.
 CONSULTING ENGINEERS
 456 Sixth Street • Gustine, California 95322
 Telephone (209) 854-3300 • Fax (209) 854-3600

CITY OF LOS BANOS
MERCEY SPRINGS SEWER LINE REPLACEMENT
PLAN AND PROFILES KEY SHEET

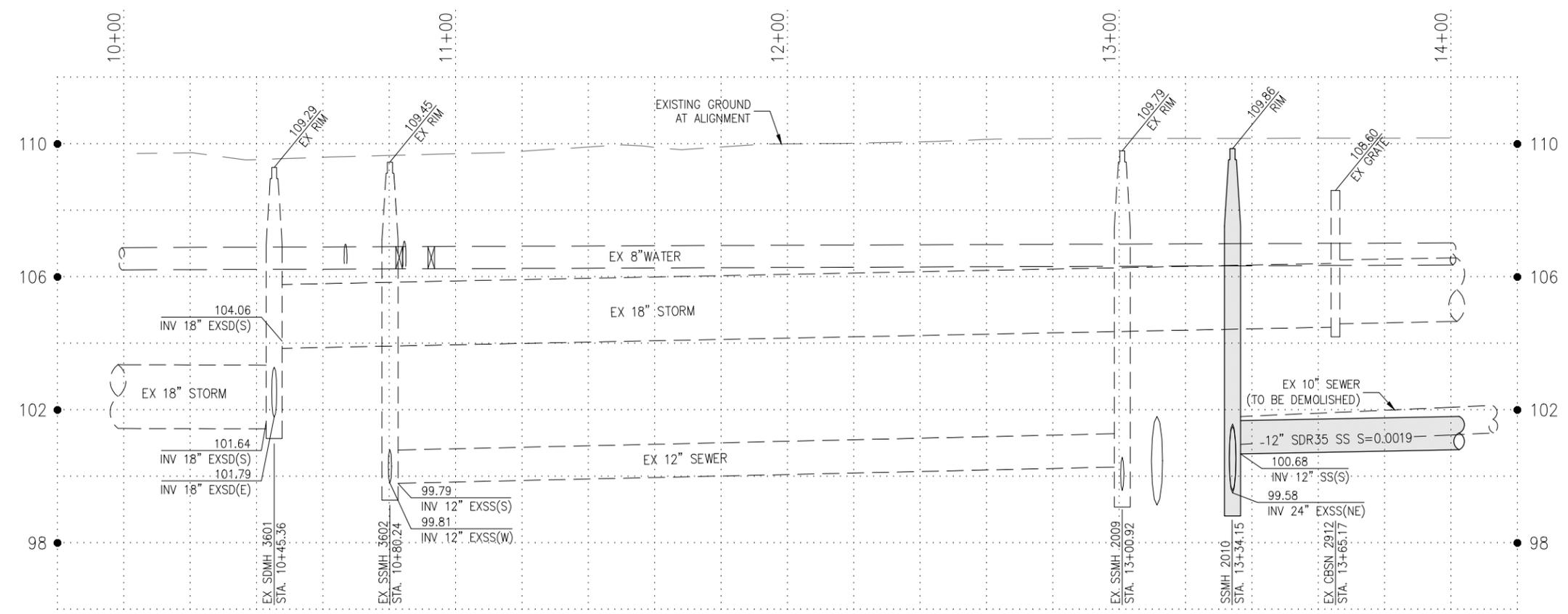
DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-103
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 3
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	CALTRANS PERMIT NO.
10	MER	165/152	PM 8.79 - 9.94/PM 21.08 - 21.57	1016-NUK-0179



CONSTRUCTION NOTES		REFERENCE DETAIL
UNDERGROUND IMPROVEMENTS		
1	LOCATE AND PROTECT EXISTING UTILITIES IN PLACE.	
2	REMOVE EXISTING SEWER MANHOLE.	2/32
3	REMOVE OR CRUSH IN PLACE THE EXISTING SEWER LINE AS REQUIRED FOR CONSTRUCTION. INSTALL NEW 12" SDR-35 SEWER LINE ALONG EXISTING ALIGNMENT.	1/32
4	CONSTRUCT NEW MANHOLE AND CONNECT EXISTING FACILITIES.	2/32
SURFACE IMPROVEMENTS		
5	REMOVE AND REPLACE EXISTING AC WITHIN TRENCH AREA. TRENCH AREA EDGES ARE TO BE SAWCUT. AC MAY BE PULVERIZED AND REUSED AS BASE BELOW AB.	2/32

ESTIMATED QUANTITIES	
MANHOLES REMOVED	1 EA
INSTALL 12" SEWER LINE	65 LF
CONSTRUCT MANHOLE	1 EA



REV	DATE	DESCRIPTION	INTL
1			
2			

OWNERSHIP OF DOCUMENTS

THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

GOUVEIA ENGINEERING, INC.
CONSULTING ENGINEERS

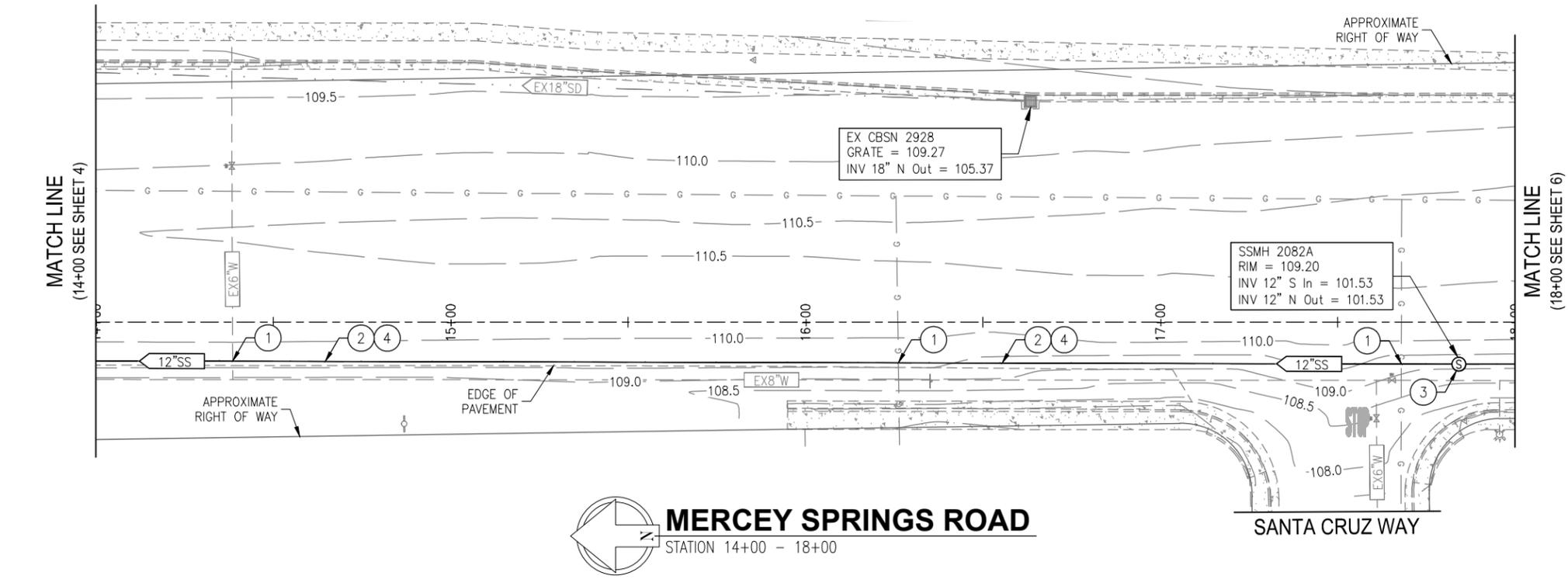
456 Sixth Street • Gustine, California 95322
Telephone (209) 854-3300 • Fax (209) 854-3600

CITY OF LOS BANOS
MERCY SPRINGS SEWER LINE REPLACEMENT
PLAN AND PROFILE
STA. 10+00 TO 14+00

DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-104
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 4
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02

M:\02_2016_2-15pm_V:\LE183002\cad\plan\sheet\83002C-104.dwg

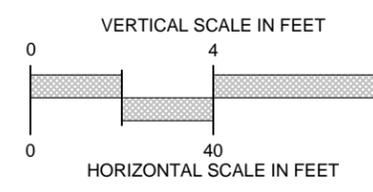
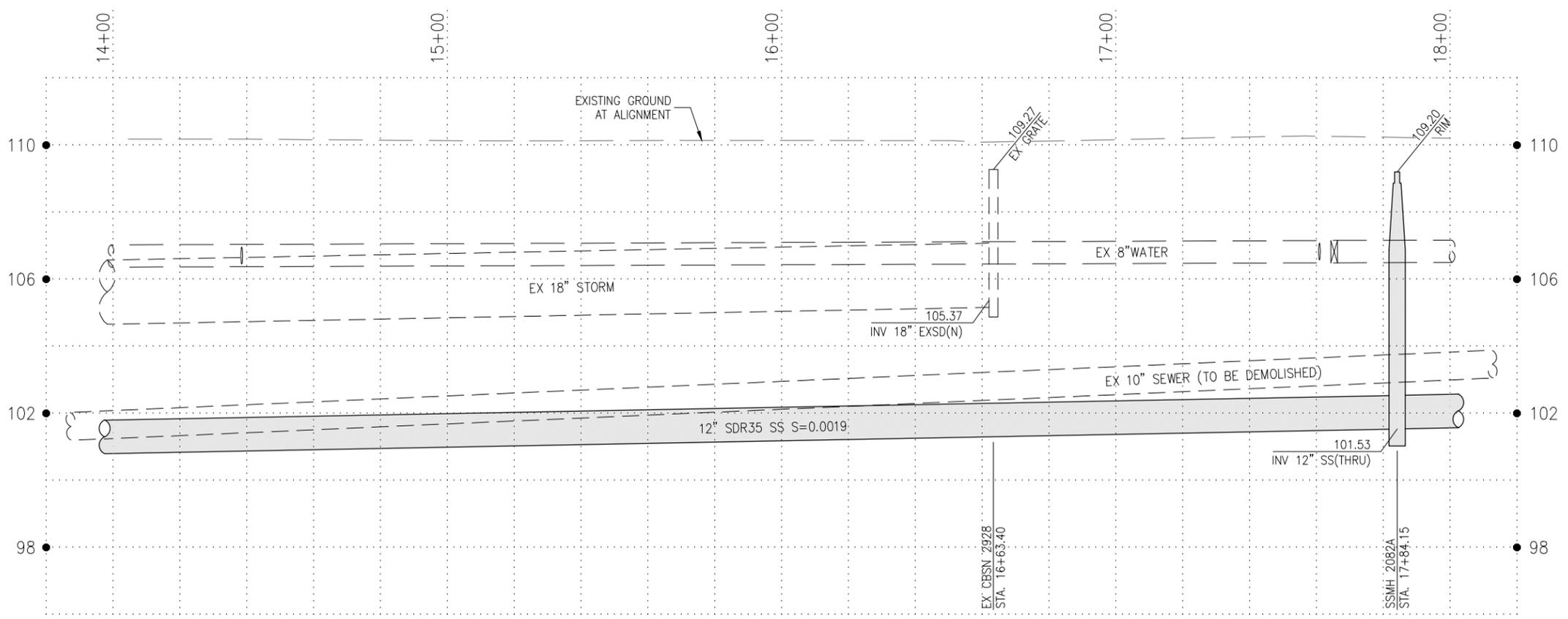
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	CALTRANS PERMIT NO.
10	MER	165/152	PM 8.79 - 9.94/PM 21.08 - 21.57	1016-NUK-0179



CONSTRUCTION NOTES		REFERENCE DETAIL
<u>UNDERGROUND IMPROVEMENTS</u>		
①	LOCATE AND PROTECT EXISTING UTILITIES IN PLACE.	
②	REMOVE OR CRUSH IN PLACE THE EXISTING SEWER LINE AS REQUIRED FOR CONSTRUCTION. INSTALL NEW 12" SDR-35 SEWER LINE ALONG EXISTING ALIGNMENT.	2/32
③	CONSTRUCT NEW MANHOLE.	1/32
<u>SURFACE IMPROVEMENTS</u>		
④	REMOVE AND REPLACE EXISTING AC WITHIN TRENCH AREA. TRENCH AREA EDGES ARE TO BE SAWCUT. AC MAY BE PULVERIZED AND REUSED AS BASE BELOW AB.	2/32

ESTIMATED QUANTITIES	
INSTALL 12" SEWER LINE	400 LF
CONSTRUCT MANHOLE	1 EA

MERCEY SPRINGS ROAD
 STATION 14+00 - 18+00



REV	DATE	DESCRIPTION	INTL
1			
2			

OWNERSHIP OF DOCUMENTS
 THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

GOUVEIA ENGINEERING, INC.
 CONSULTING ENGINEERS
 456 Sixth Street • Gustine, California 95322
 Telephone (209) 854-3300 • Fax (209) 854-3600

CITY OF LOS BANOS
MERCEY SPRINGS SEWER LINE REPLACEMENT
PLAN AND PROFILE
STA. 14+00 TO 18+00

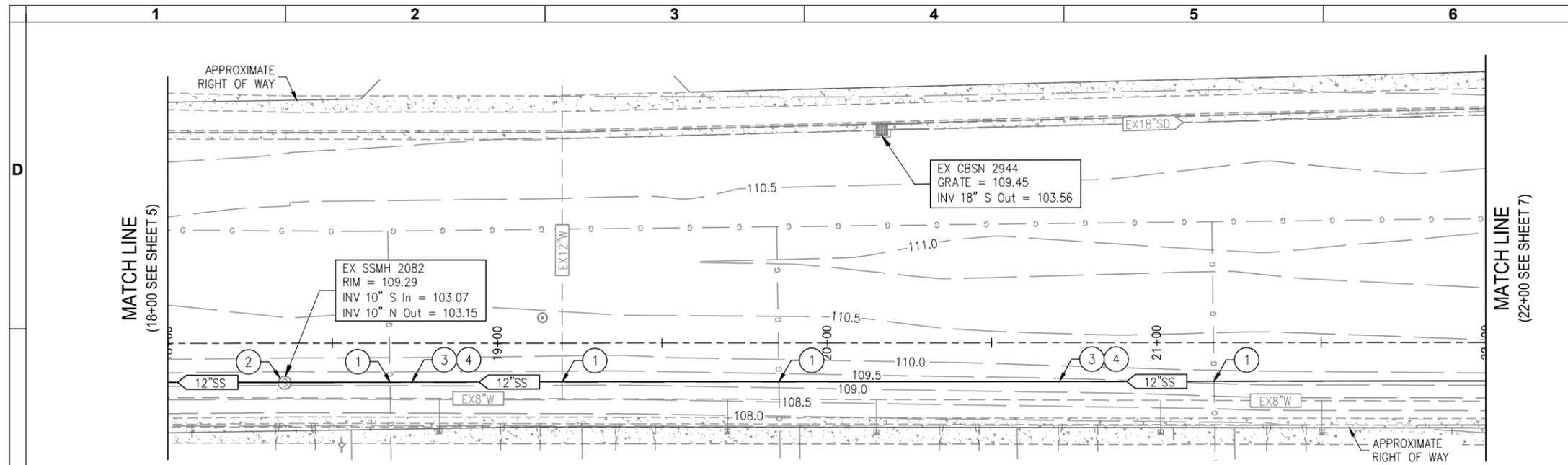
DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-105
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 5
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02

Mar_02_2016 - 2:16pm
 V:\CL\161002\cad\plan\161002C-104.dwg

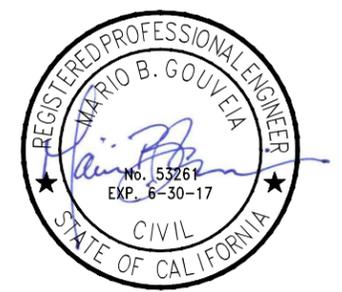
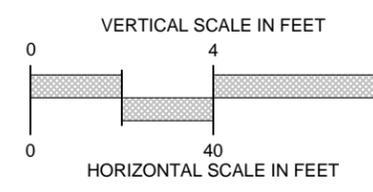
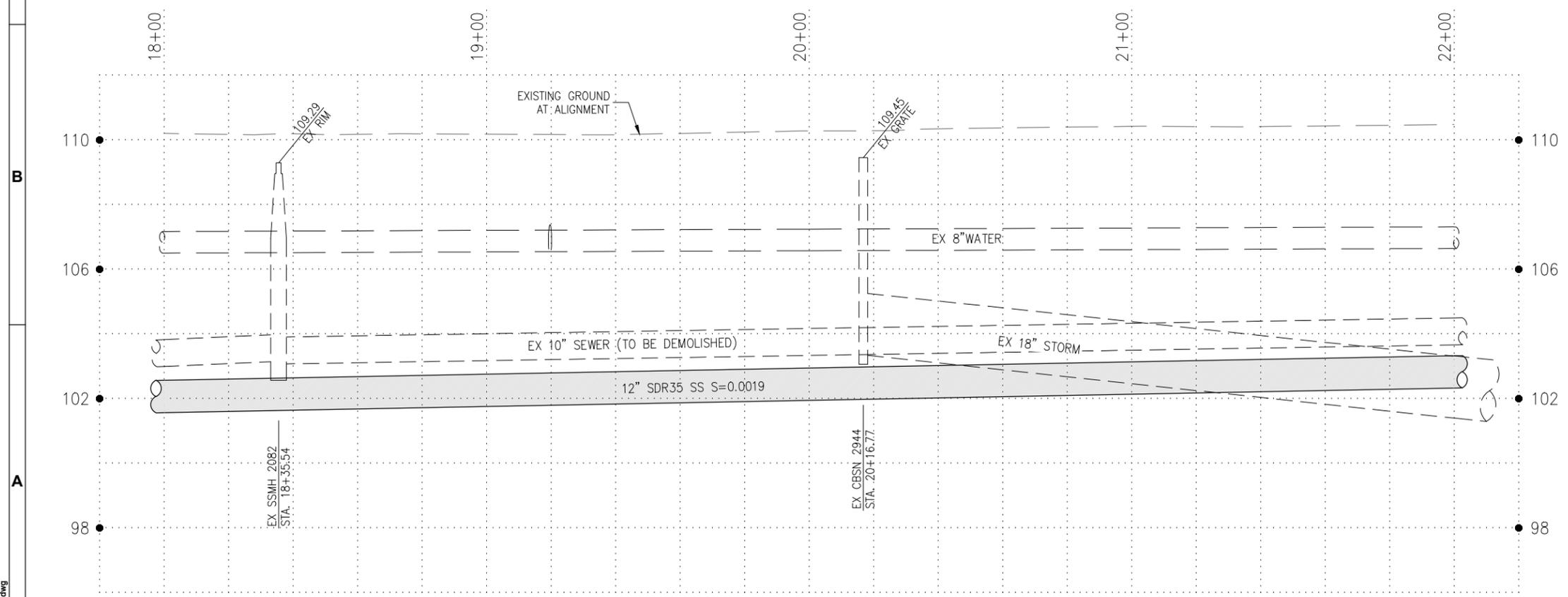
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	CALTRANS PERMIT NO.
10	MER	165/152	PM 8.79 - 9.94/PM 21.08 - 21.57	1016-NUK-0179

CONSTRUCTION NOTES		REFERENCE DETAIL	
<p><u>UNDERGROUND IMPROVEMENTS</u></p> <p>① LOCATE AND PROTECT EXISTING UTILITIES IN PLACE.</p> <p>② REMOVE EXISTING SEWER MANHOLE.</p> <p>③ REMOVE OR CRUSH IN PLACE THE EXISTING SEWER LINE AS REQUIRED FOR CONSTRUCTION. INSTALL NEW 12" SDR-35 SEWER LINE ALONG EXISTING ALIGNMENT.</p> <p><u>SURFACE IMPROVEMENTS</u></p> <p>④ REMOVE AND REPLACE EXISTING AC WITHIN TRENCH AREA. TRENCH AREA EDGES ARE TO BE SAWCUT. AC MAY BE PULVERIZED AND REUSED AS BASE BELOW AB.</p>			<p>②</p> <p>③</p> <p>④</p>

ESTIMATED QUANTITIES	
MANHOLES REMOVED	1 EA
INSTALL 12" SEWER LINE	400 LF



MERCY SPRINGS ROAD
 STATION 18+00 - 22+00



Mar_02_2016 - 2:17pm
 V:\CL\161002\cad\plans\161002C-104.dwg

REV	DATE	DESCRIPTION	INTL

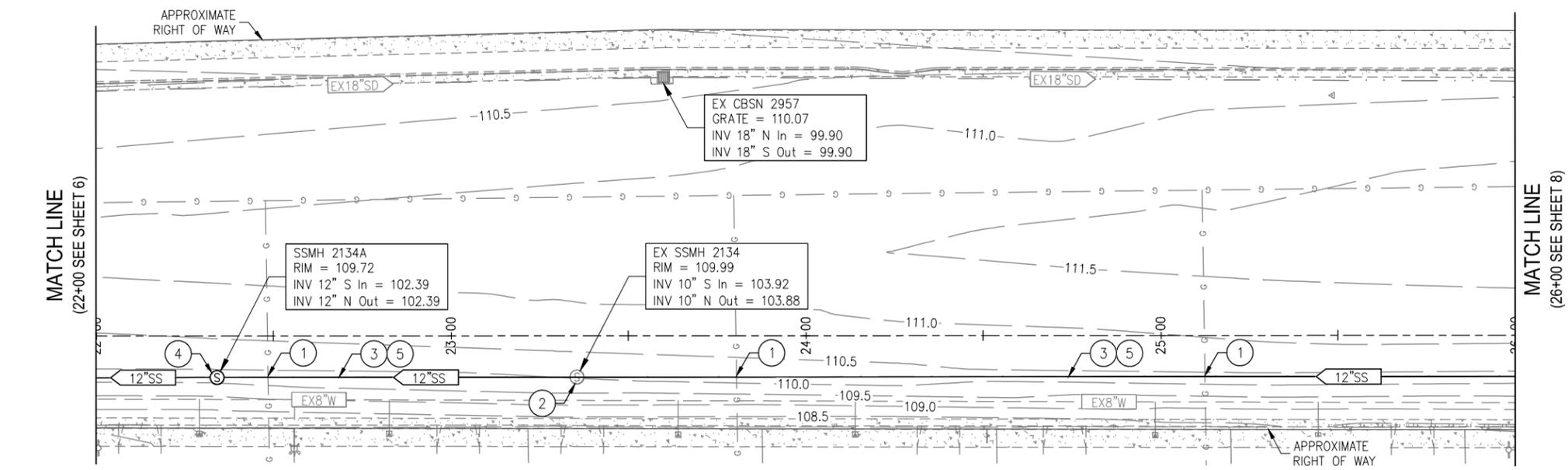
OWNERSHIP OF DOCUMENTS
 THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

GOUVEIA ENGINEERING, INC.
 CONSULTING ENGINEERS
 456 Sixth Street • Gustine, California 95322
 Telephone (209) 854-3300 • Fax (209) 854-3600

CITY OF LOS BANOS
MERCY SPRINGS SEWER LINE REPLACEMENT
PLAN AND PROFILE
STA. 18+00 TO 22+00

DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-106
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 6
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02

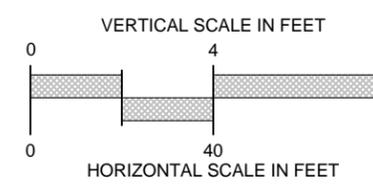
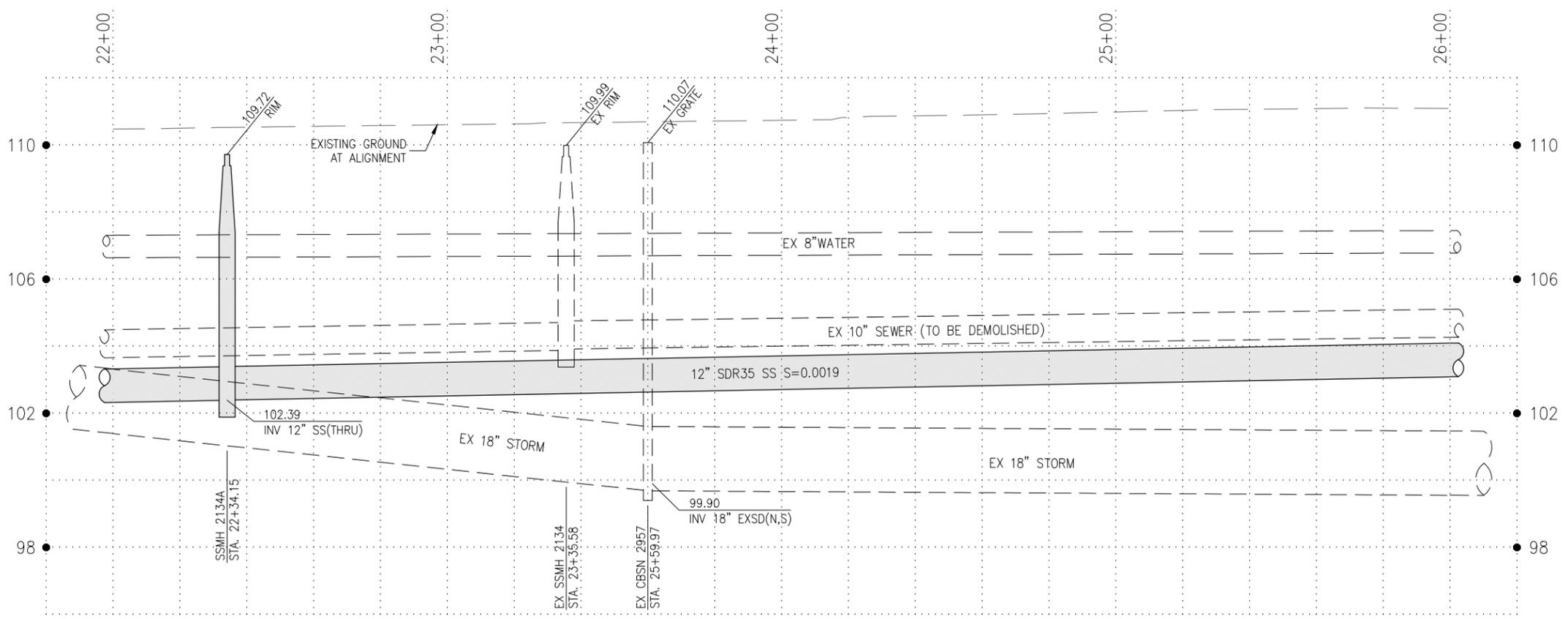
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	CALTRANS PERMIT NO.
10	MER	165/152	PM 8.79 - 9.94/PM 21.08 - 21.57	1016-NUK-0179



CONSTRUCTION NOTES		REFERENCE DETAIL
<u>UNDERGROUND IMPROVEMENTS</u>		
1	LOCATE AND PROTECT EXISTING UTILITIES IN PLACE.	
2	REMOVE EXISTING SEWER MANHOLE.	
3	REMOVE OR CRUSH IN PLACE THE EXISTING SEWER LINE AS REQUIRED FOR CONSTRUCTION. INSTALL NEW 12" SDR-35 SEWER LINE ALONG EXISTING ALIGNMENT.	(2/32)
4	CONSTRUCT NEW MANHOLE.	(1/32)
<u>SURFACE IMPROVEMENTS</u>		
5	REMOVE AND REPLACE EXISTING AC WITHIN TRENCH AREA. TRENCH AREA EDGES ARE TO BE SAWCUT. AC MAY BE PULVERIZED AND REUSED AS BASE BELOW AB.	(2/32)

ESTIMATED QUANTITIES	
MANHOLES REMOVED	1 EA
INSTALL 12" SEWER LINE	400 LF
NEW SEWER MANHOLE	1 EA

MERCY SPRINGS ROAD
 STATION 22+00 - 26+00



May 02 2016 - 2:17pm
 V:\C\161502\cad\plansheet\83002C-104.dwg

REV	DATE	DESCRIPTION	INTL
1			
2			

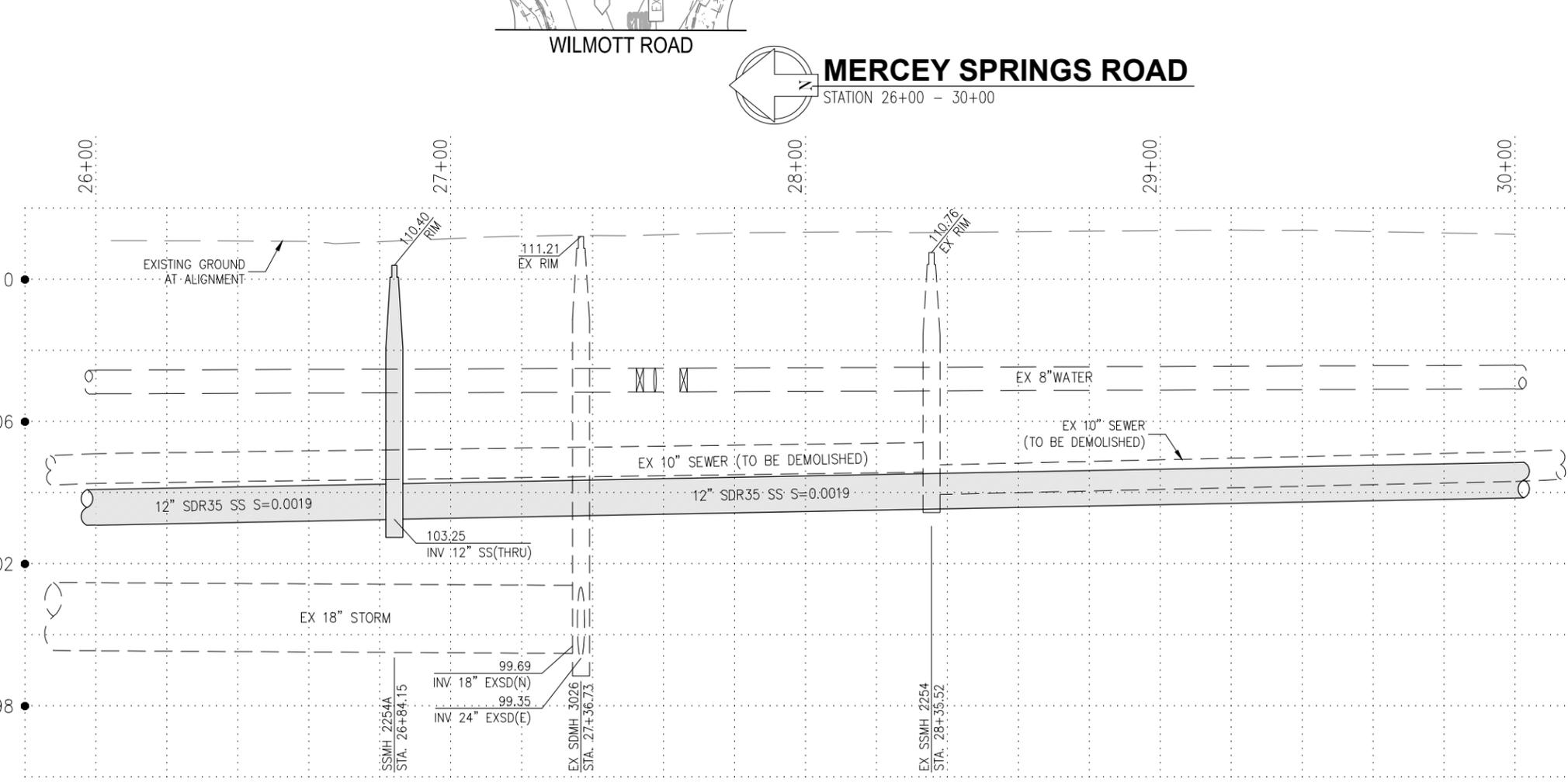
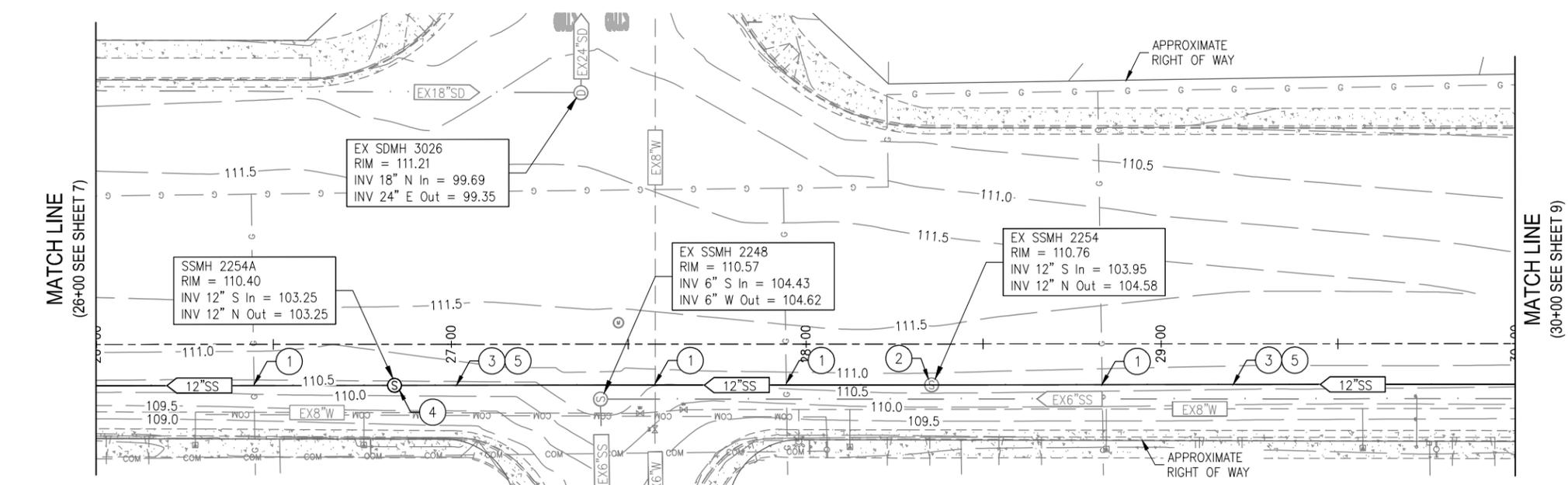
OWNERSHIP OF DOCUMENTS
 THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

GOUVEIA ENGINEERING, INC.
 CONSULTING ENGINEERS
 456 Sixth Street • Gustine, California 95322
 Telephone (209) 854-3300 • Fax (209) 854-3600

CITY OF LOS BANOS
MERCY SPRINGS SEWER LINE REPLACEMENT
PLAN AND PROFILE
STA. 22+00 TO 26+00

DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-107
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 7
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	CALTRANS PERMIT NO.
10	MER	165/152	PM 8.79 - 9.94/PM 21.08 - 21.57	1016-NUK-0179



CONSTRUCTION NOTES		REFERENCE DETAIL
UNDERGROUND IMPROVEMENTS		
1	LOCATE AND PROTECT EXISTING UTILITIES IN PLACE.	
2	REMOVE EXISTING SEWER MANHOLE.	
3	REMOVE OR CRUSH IN PLACE THE EXISTING SEWER LINE AS REQUIRED FOR CONSTRUCTION. INSTALL NEW 12" SDR-35 SEWER LINE ALONG EXISTING ALIGNMENT.	(2/32)
4	CONSTRUCT NEW MANHOLE.	(1/32)
SURFACE IMPROVEMENTS		
5	REMOVE AND REPLACE EXISTING AC WITHIN TRENCH AREA. TRENCH AREA EDGES ARE TO BE SAWCUT. AC MAY BE PULVERIZED AND REUSED AS BASE BELOW AB.	(2/32)

ESTIMATED QUANTITIES	
MANHOLES REMOVED	1 EA
INSTALL 12" SEWER LINE	400 LF
NEW SEWER MANHOLE	1 EA

GENERAL NOTES

FOR CLARITY PURPOSES THE EXISTING 6" SEWERLINE ON THE WEST SIDE OF THE NEW SEWERLINE HAS BEEN OMITTED FROM THE PROFILE.

VERTICAL SCALE IN FEET

HORIZONTAL SCALE IN FEET

**Know what's below.
Call before you dig.**

REV	DATE	DESCRIPTION	INTL
1			
2			

OWNERSHIP OF DOCUMENTS

THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

GOUVEIA ENGINEERING, INC.
CONSULTING ENGINEERS

456 Sixth Street • Gustine, California 95322
Telephone (209) 854-3300 • Fax (209) 854-3600

CITY OF LOS BANOS

MERCY SPRINGS SEWER LINE REPLACEMENT

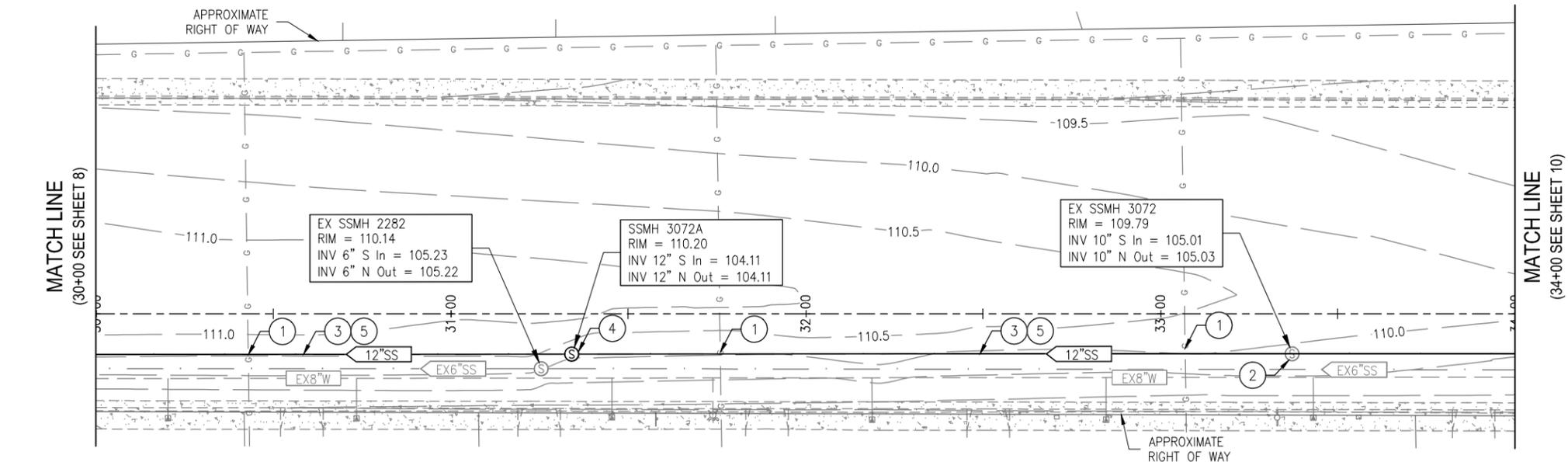
PLAN AND PROFILE

STA. 26+00 TO 30+00

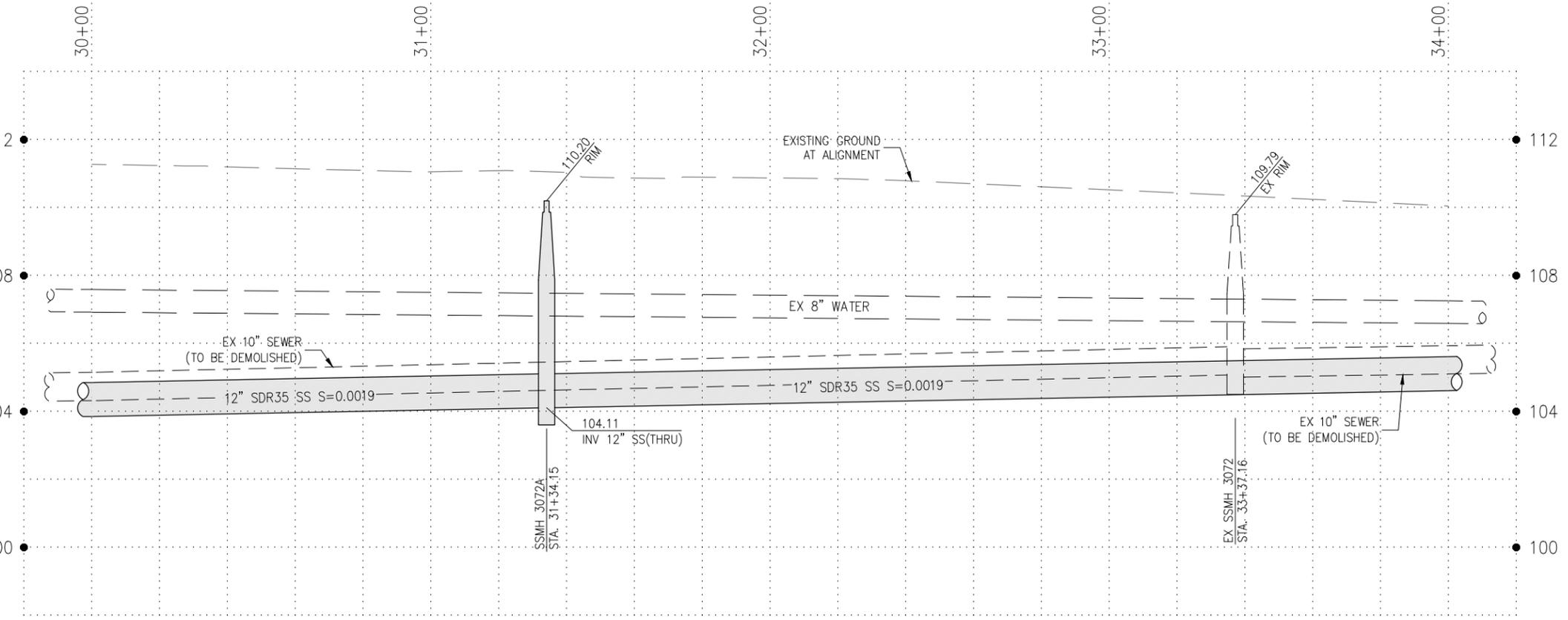
DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-108
CHECKED BY M. GOUVEIA	DATE 04/28/2016	SHEET 8
APPROVED M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS PROJECT NUMBER 830.02

Mar_02_2016 - 2:17pm
 V:\C\16153002\cad\plansheet\83002C-104.dwg

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	CALTRANS PERMIT NO.
10	MER	165/152	PM 8.79 - 9.94/PM 21.08 - 21.57	1016-NUK-0179



MERCY SPRINGS ROAD
 STATION 30+00 - 34+00



CONSTRUCTION NOTES		REFERENCE DETAIL
UNDERGROUND IMPROVEMENTS		
1	LOCATE AND PROTECT EXISTING UTILITIES IN PLACE.	
2	REMOVE EXISTING SEWER MANHOLE.	
3	REMOVE OR CRUSH IN PLACE THE EXISTING SEWER LINE AS REQUIRED FOR CONSTRUCTION. INSTALL NEW 12" SDR-35 SEWER LINE ALONG EXISTING ALIGNMENT.	2/32
4	CONSTRUCT NEW MANHOLE.	1/32
SURFACE IMPROVEMENTS		
5	REMOVE AND REPLACE EXISTING AC WITHIN TRENCH AREA. TRENCH AREA EDGES ARE TO BE SAWCUT. AC MAY BE PULVERIZED AND REUSED AS BASE BELOW AB.	2/32

ESTIMATED QUANTITIES	
MANHOLES REMOVED	1 EA
INSTALL 12" SEWER LINE	400 LF
CONSTRUCT MANHOLE	1 EA

GENERAL NOTES	
FOR CLARITY PURPOSES THE EXISTING 6" SEWERLINE ON THE WEST SIDE OF THE NEW SEWERLINE HAS BEEN OMITTED FROM THE PROFILE.	



REV	DATE	DESCRIPTION	INTL
1			
2			

OWNERSHIP OF DOCUMENTS
 THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

GOUVEIA ENGINEERING, INC.
 CONSULTING ENGINEERS
 456 Sixth Street • Gustine, California 95322
 Telephone (209) 854-3300 • Fax (209) 854-3600

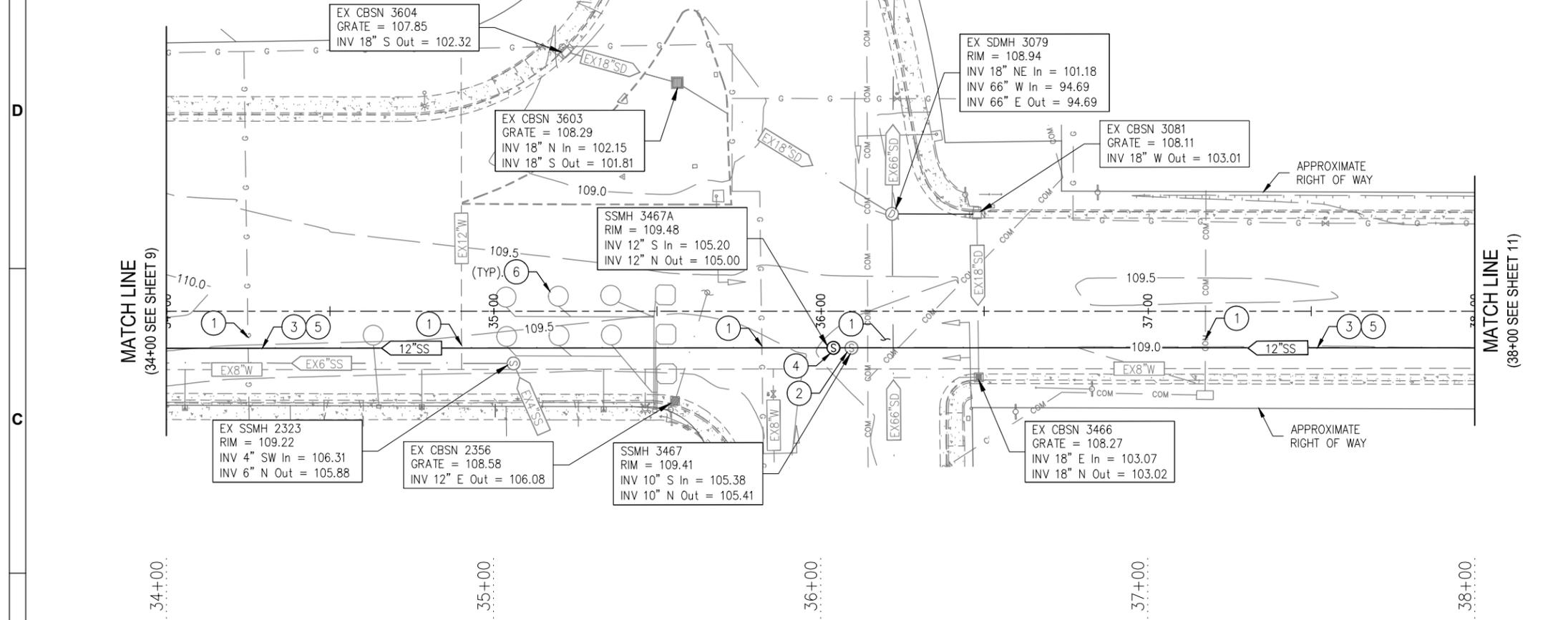
CITY OF LOS BANOS
MERCY SPRINGS SEWER LINE REPLACEMENT
PLAN AND PROFILE
STA. 30+00 TO 34+00

DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-109
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 9
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02

May 02 2016 - 2:23pm
 V:\C\1615002\cad\plm\sheet\83002C-109.dwg

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	CALTRANS PERMIT NO.
10	MER	165/152	PM 8.79 - 9.94/PM 21.08 - 21.57	1016-NUK-0179

EAST B STREET



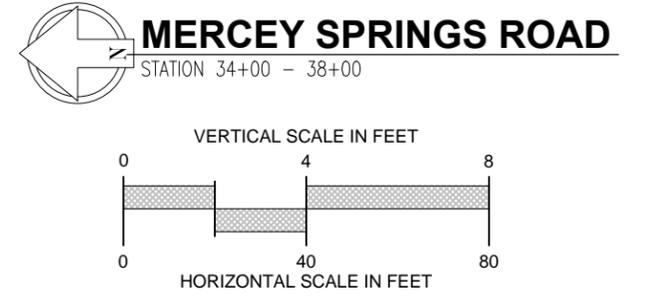
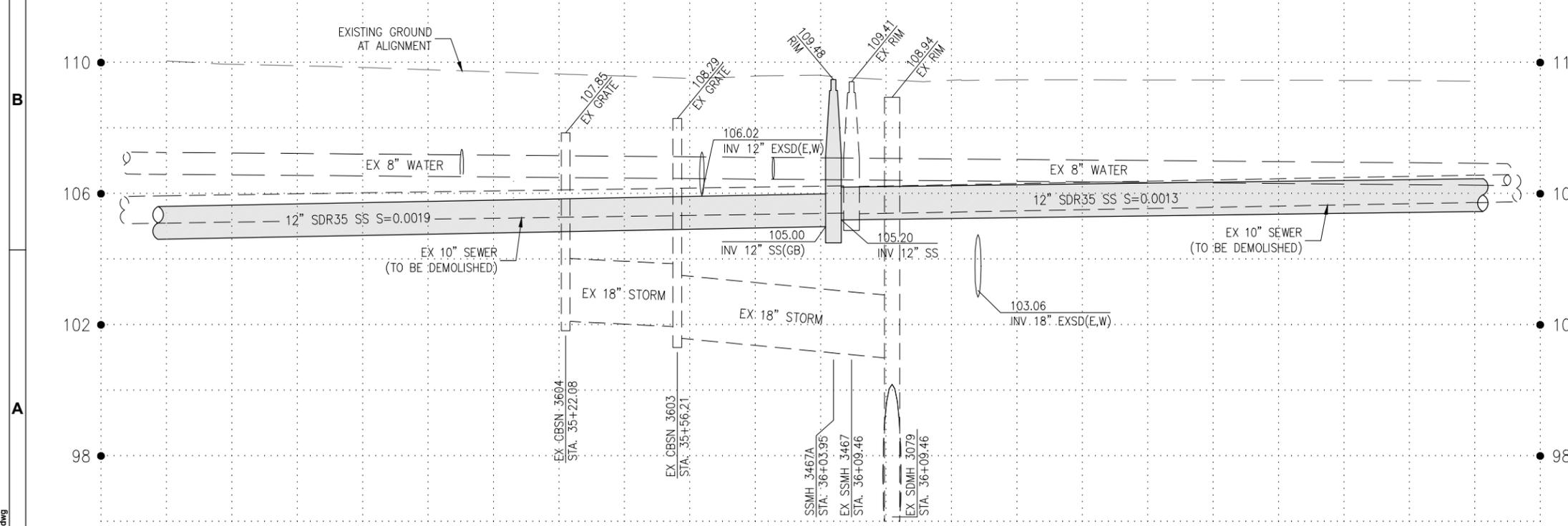
- CONSTRUCTION NOTES**
- UNDERGROUND IMPROVEMENTS
- LOCATE AND PROTECT EXISTING UTILITIES IN PLACE.
 - REMOVE EXISTING SEWER MANHOLE.
 - REMOVE OR CRUSH IN PLACE THE EXISTING SEWER LINE AS REQUIRED FOR CONSTRUCTION. INSTALL NEW 12" SDR-35 SEWER LINE ALONG EXISTING ALIGNMENT.
 - CONSTRUCT NEW MANHOLE.
- SURFACE IMPROVEMENTS
- REMOVE AND REPLACE EXISTING AC WITHIN TRENCH AREA. TRENCH AREA EDGES ARE TO BE SAWCUT. AC MAY BE PULVERIZED AND REUSED AS BASE BELOW AB.
 - REMOVE AND REPLACE TRAFFIC SENSOR LOOPS DAMAGED DURING CONSTRUCTION OR AS DIRECTED BY CALTRANS FIELD ENGINEER. LOOPS SHALL BE REPLACED IN THEIR ENTIRETY STARTING AT THE SOURCE PULL BOX. SPlicing SENSOR LOOPS WILL NOT PERMITTED. LOOP REPLACEMENT SHALL FOLLOW THE CURRENT CALTRANS STANDARDS AND SPECIFICATIONS. APPROXIMATE LOCATION AND CONFIGURATION IS SHOWN.

REFERENCE DETAIL

2	32
1	32
2	32

ESTIMATED QUANTITIES

MANHOLES REMOVED	1	EA
INSTALL 12" SEWER LINE	400	LF
CONSTRUCT MANHOLE	1	EA
TRAFFIC SENSOR LOOP REPAIRS	9	EA



REV	DATE	DESCRIPTION	INTL
1			
2			

OWNERSHIP OF DOCUMENTS

THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

GOUVEIA ENGINEERING, INC.
CONSULTING ENGINEERS

456 Sixth Street • Gustine, California 95322
Telephone (209) 854-3300 • Fax (209) 854-3600

CITY OF LOS BANOS
MERCY SPRINGS SEWER LINE REPLACEMENT
PLAN AND PROFILE
STA. 34+00 TO 38+00

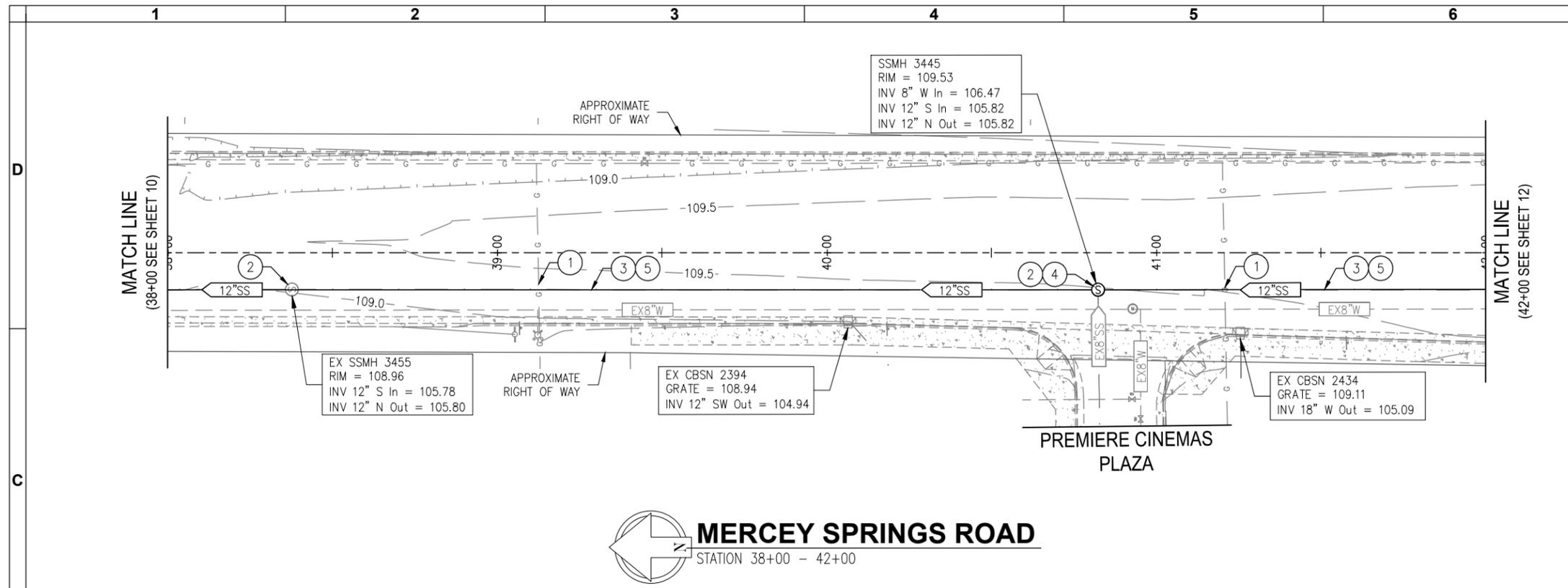
DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-110
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 10
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02

May 02 2016 - 2:25pm
 V:\C\161830\2\cad\plan\sheet1002C-109.dwg

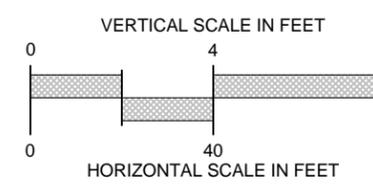
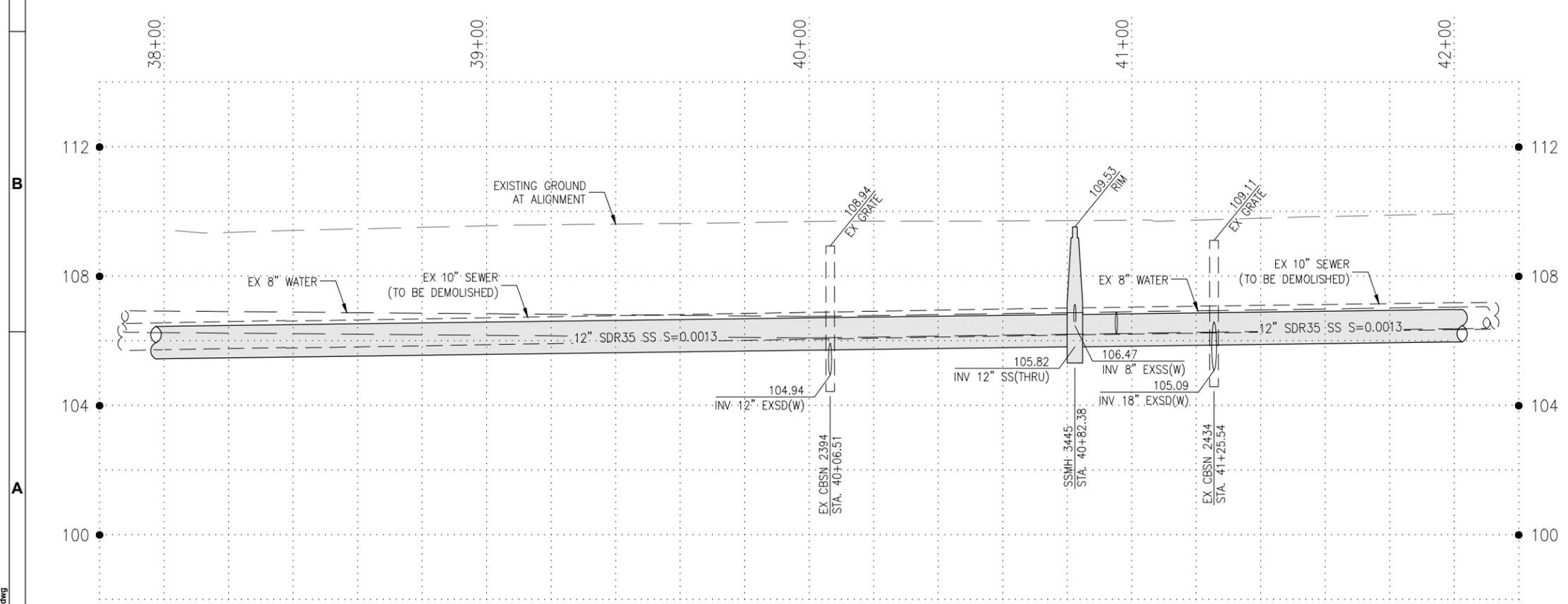
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	CALTRANS PERMIT NO.
10	MER	165/152	PM 8.79 - 9.94/PM 21.08 - 21.57	1016-NUK-0179

CONSTRUCTION NOTES		REFERENCE DETAIL
<u>UNDERGROUND IMPROVEMENTS</u>		
1	LOCATE AND PROTECT EXISTING UTILITIES IN PLACE.	
2	REMOVE EXISTING SEWER MANHOLE.	
3	REMOVE OR CRUSH IN PLACE THE EXISTING SEWER LINE AS REQUIRED FOR CONSTRUCTION. INSTALL NEW 12" SDR-35 SEWER LINE ALONG EXISTING ALIGNMENT.	2/32
4	CONSTRUCT NEW MANHOLE AND CONNECT EXISTING FACILITIES.	1/32
<u>SURFACE IMPROVEMENTS</u>		
5	REMOVE AND REPLACE EXISTING AC WITHIN TRENCH AREA. TRENCH AREA EDGES ARE TO BE SAWCUT. AC MAY BE PULVERIZED AND REUSED AS BASE BELOW AB.	2/32

ESTIMATED QUANTITIES	
MANHOLES REMOVED	2 EA
INSTALL 12" SEWER LINE	400 LF
CONSTRUCT MANHOLE	1 EA



MERCY SPRINGS ROAD
 STATION 38+00 - 42+00



May 02 2016 - 2:25pm
 V:\CL\161002\cad\plan\sheet\302C-109.dwg

REV	DATE	DESCRIPTION	INTL
1			
2			

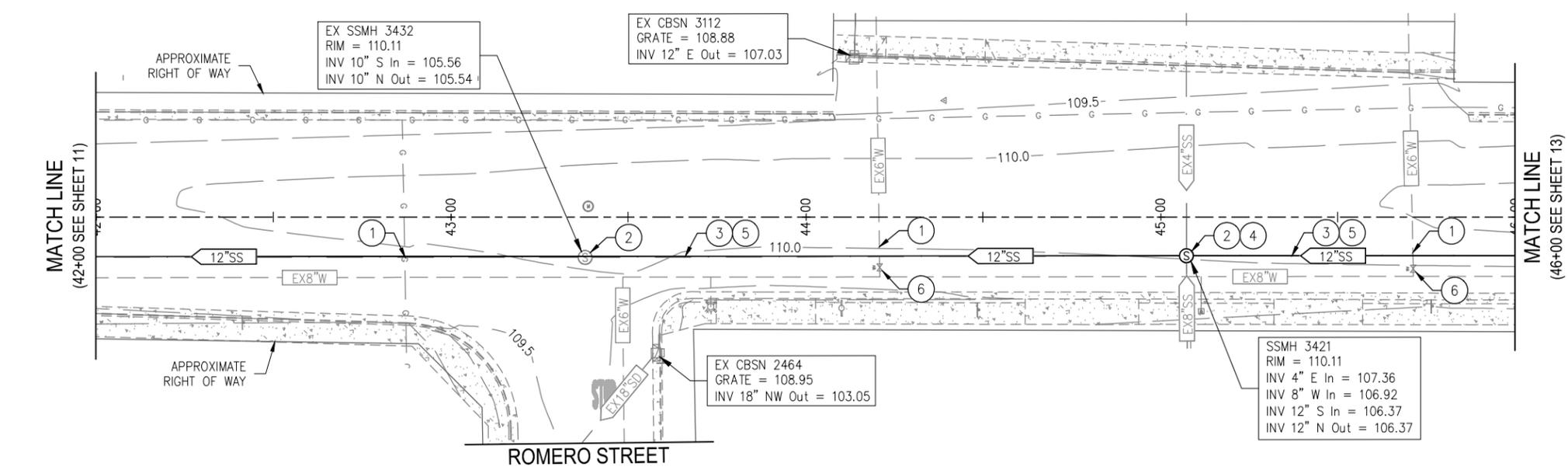
OWNERSHIP OF DOCUMENTS
 THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

GOUVEIA ENGINEERING, INC.
 CONSULTING ENGINEERS
 456 Sixth Street • Custine, California 95322
 Telephone (209) 854-3300 • Fax (209) 854-3600

CITY OF LOS BANOS
MERCY SPRINGS SEWER LINE REPLACEMENT
PLAN AND PROFILE
STA. 38+00 TO 42+00

DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-111
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 11
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02

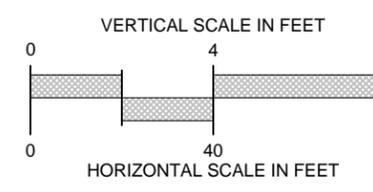
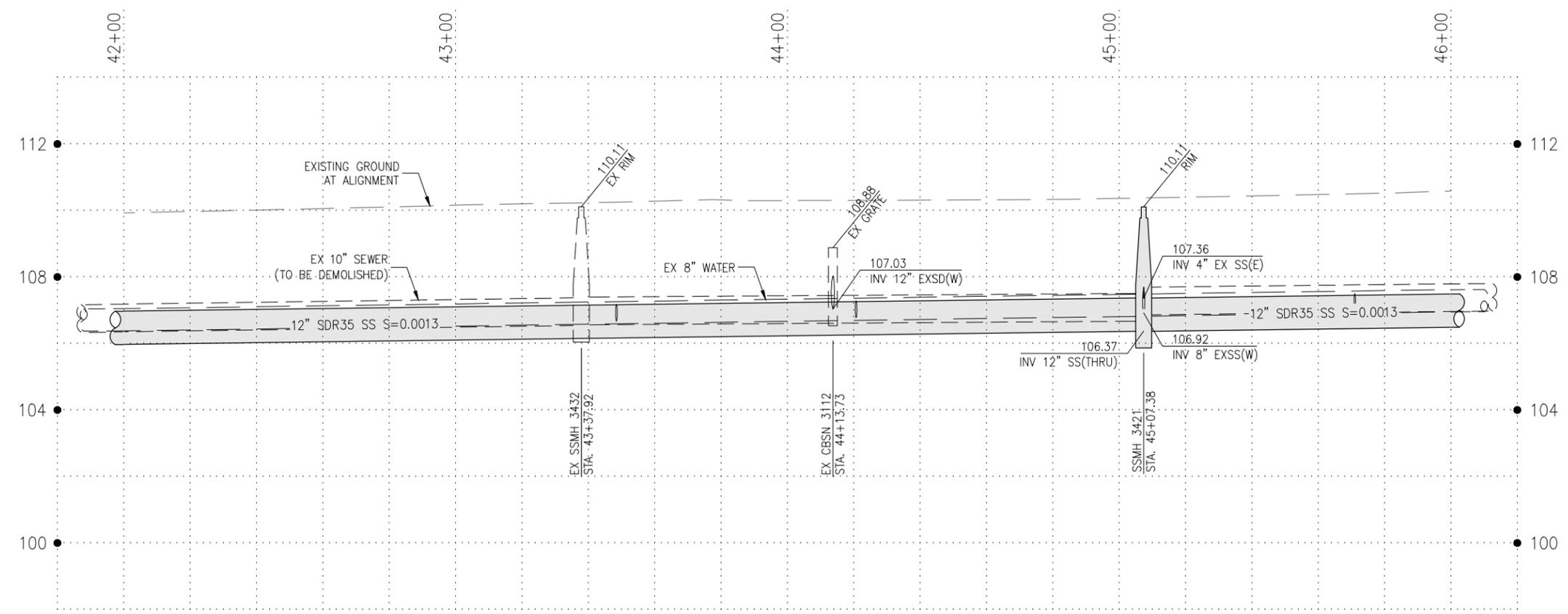
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	CALTRANS PERMIT NO.
10	MER	165/152	PM 8.79 - 9.94/PM 21.08 - 21.57	1016-NUK-0179



CONSTRUCTION NOTES		REFERENCE DETAIL
UNDERGROUND IMPROVEMENTS		
1	LOCATE AND PROTECT EXISTING UTILITIES IN PLACE.	
2	REMOVE EXISTING SEWER MANHOLE.	
3	REMOVE OR CRUSH IN PLACE THE EXISTING SEWER LINE AS REQUIRED FOR CONSTRUCTION. INSTALL NEW 12" SDR-35 SEWER LINE ALONG EXISTING ALIGNMENT.	2/32
4	CONSTRUCT NEW MANHOLE AND CONNECT EXISTING FACILITIES.	1/32
SURFACE IMPROVEMENTS		
5	REMOVE AND REPLACE EXISTING AC WITHIN TRENCH AREA. TRENCH AREA EDGES ARE TO BE SAWCUT. AC MAY BE PULVERIZED AND REUSED AS BASE BELOW AB.	2/32
6	ADJUST EXISTING WATER VALVE COVER TO GRADE.	3/33

ESTIMATED QUANTITIES	
MANHOLES REMOVED	2 EA
INSTALL 12" SEWER LINE	400 LF
CONSTRUCT MANHOLE	1 EA
WATER VALVE ADJUSTMENT	2 EA

MERCY SPRINGS ROAD
 STATION 42+00 - 46+00



May 02 2016 - 2:27pm
 V:\C\16183002\cad\plm\sheet\3002C-109.dwg

REV	DATE	DESCRIPTION	INTL
1			
2			

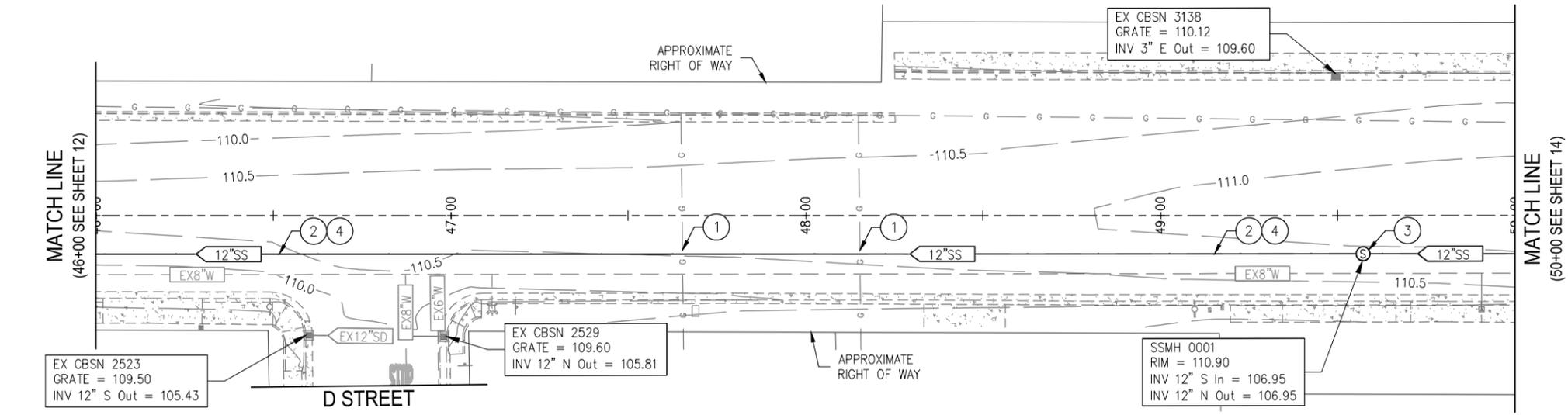
OWNERSHIP OF DOCUMENTS
 THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

GOUVEIA ENGINEERING, INC.
 CONSULTING ENGINEERS
 456 Sixth Street • Gustine, California 95322
 Telephone (209) 854-3300 • Fax (209) 854-3600

CITY OF LOS BANOS
MERCY SPRINGS SEWER LINE REPLACEMENT
PLAN AND PROFILE
STA. 42+00 TO 46+00

DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-112
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 12
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02

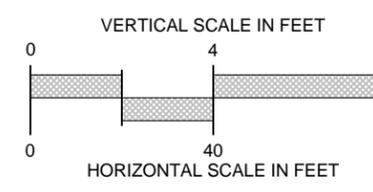
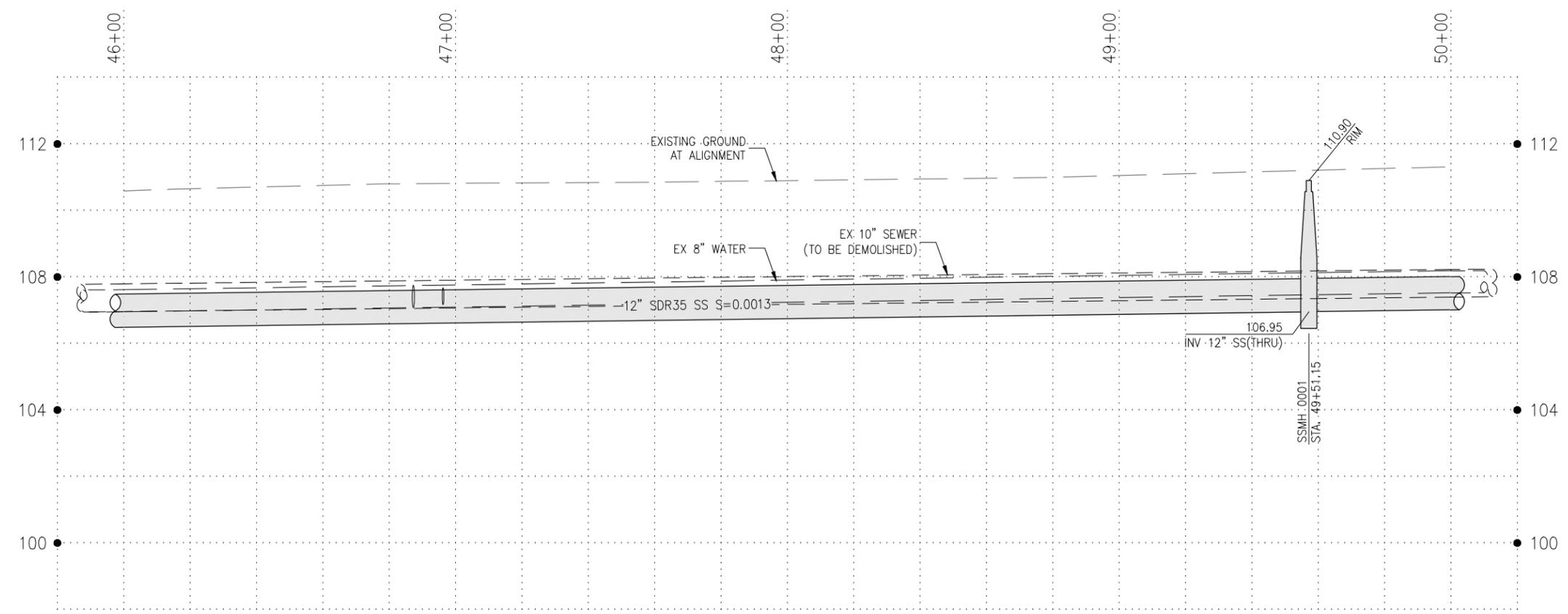
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	CALTRANS PERMIT NO.
10	MER	165/152	PM 8.79 - 9.94/PM 21.08 - 21.57	1016-NUK-0179



CONSTRUCTION NOTES		REFERENCE DETAIL
UNDERGROUND IMPROVEMENTS		
1	LOCATE AND PROTECT EXISTING UTILITIES IN PLACE.	2/32
2	REMOVE OR CRUSH IN PLACE THE EXISTING SEWER LINE AS REQUIRED FOR CONSTRUCTION. INSTALL NEW 12" SDR-35 SEWER LINE ALONG EXISTING ALIGNMENT.	1/32
3	CONSTRUCT NEW MANHOLE.	2/32
SURFACE IMPROVEMENTS		
4	REMOVE AND REPLACE EXISTING AC WITHIN TRENCH AREA. TRENCH AREA EDGES ARE TO BE SAWCUT. AC MAY BE PULVERIZED AND REUSED AS BASE BELOW AB.	2/32

ESTIMATED QUANTITIES	
INSTALL 12" SEWER LINE	400 LF
CONSTRUCT MANHOLE	1 EA

MERCY SPRINGS ROAD
 STATION 46+00 - 50+00



May 02 2016 - 2:26pm
 V:\CL\16302\cad\plm\sheet\16302C-109.dwg

REV	DATE	DESCRIPTION	INTL
1			
2			

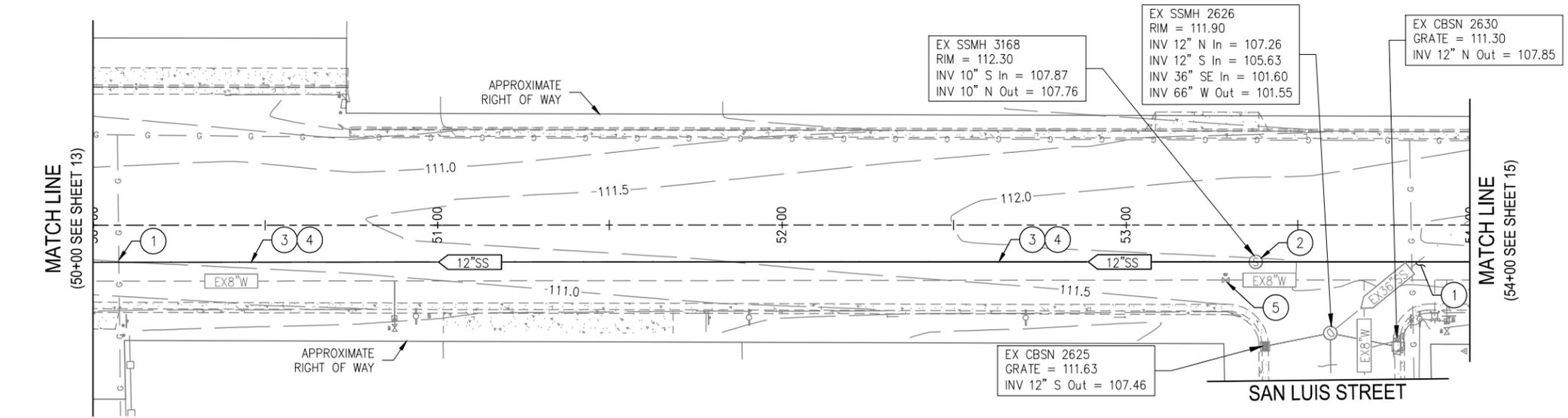
OWNERSHIP OF DOCUMENTS
 THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

GOUVEIA ENGINEERING, INC.
 CONSULTING ENGINEERS
 456 Sixth Street • Custine, California 95322
 Telephone (209) 854-3300 • Fax (209) 854-3600

CITY OF LOS BANOS
MERCY SPRINGS SEWER LINE REPLACEMENT
PLAN AND PROFILE
STA. 46+00 TO 50+00

DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-113
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 13
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02

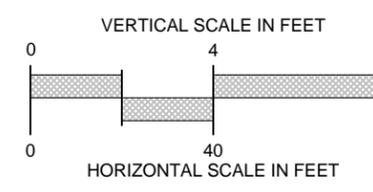
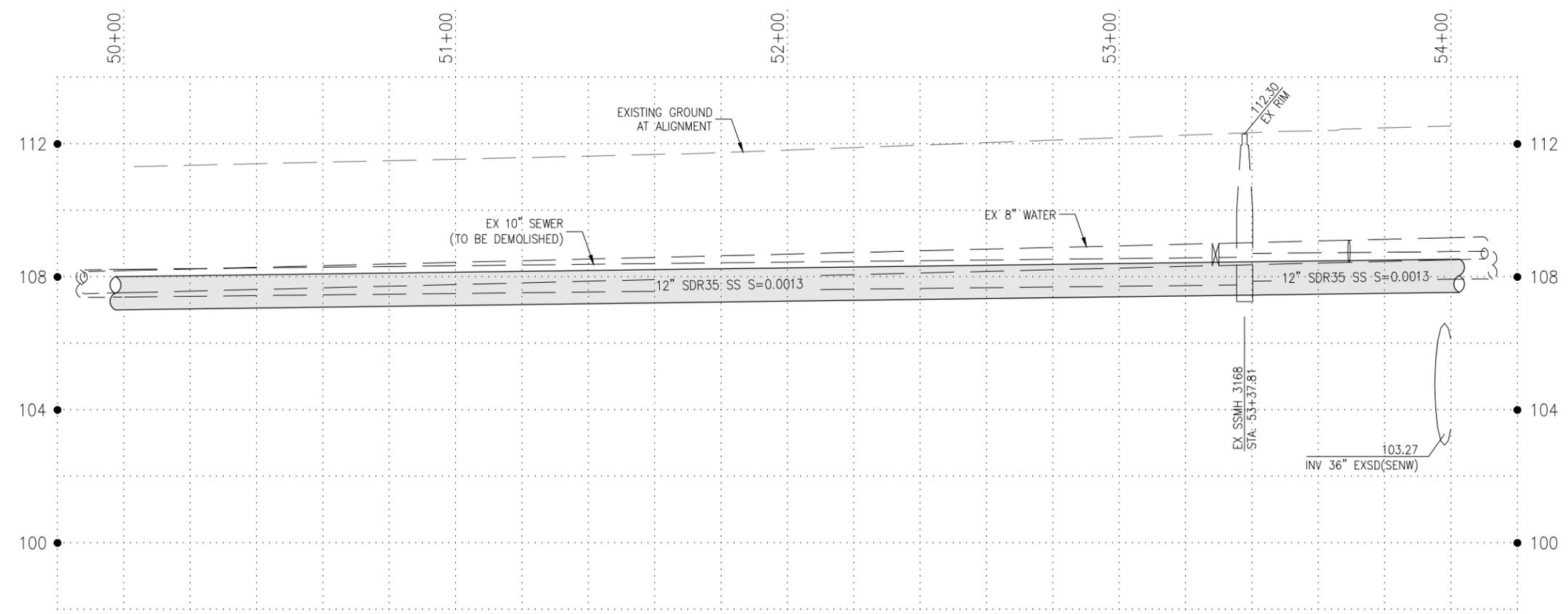
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	CALTRANS PERMIT NO.
10	MER	165/152	PM 8.79 - 9.94/PM 21.08 - 21.57	1016-NUK-0179



CONSTRUCTION NOTES		REFERENCE DETAIL
UNDERGROUND IMPROVEMENTS		
1	LOCATE AND PROTECT EXISTING UTILITIES IN PLACE.	
2	REMOVE EXISTING SEWER MANHOLE.	
3	REMOVE OR CRUSH IN PLACE THE EXISTING SEWER LINE AS REQUIRED FOR CONSTRUCTION. INSTALL NEW 12" SDR-35 SEWER LINE ALONG EXISTING ALIGNMENT.	2/32
SURFACE IMPROVEMENTS		
4	REMOVE AND REPLACE EXISTING AC WITHIN TRENCH AREA. TRENCH AREA EDGES ARE TO BE SAWCUT. AC MAY BE PULVERIZED AND REUSED AS BASE BELOW AB.	2/32
5	ADJUST EXISTING WATER VALVE COVER TO GRADE.	3/33

ESTIMATED QUANTITIES	
MANHOLES REMOVED	1 EA
INSTALL 12" SEWER LINE	400 LF
WATER VALVE ADJUSTMENT	1 EA

MERCEY SPRINGS ROAD
 STATION 50+00 - 54+00



May 02 2016 - 2:29pm
 V:\C\1615002\cad\plm\et180202C-114.dwg

REV	DATE	DESCRIPTION	INTL
1			
2			

OWNERSHIP OF DOCUMENTS
 THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

GOUVEIA ENGINEERING, INC.
 CONSULTING ENGINEERS
 456 Sixth Street • Gustine, California 95322
 Telephone (209) 854-3300 • Fax (209) 854-3600

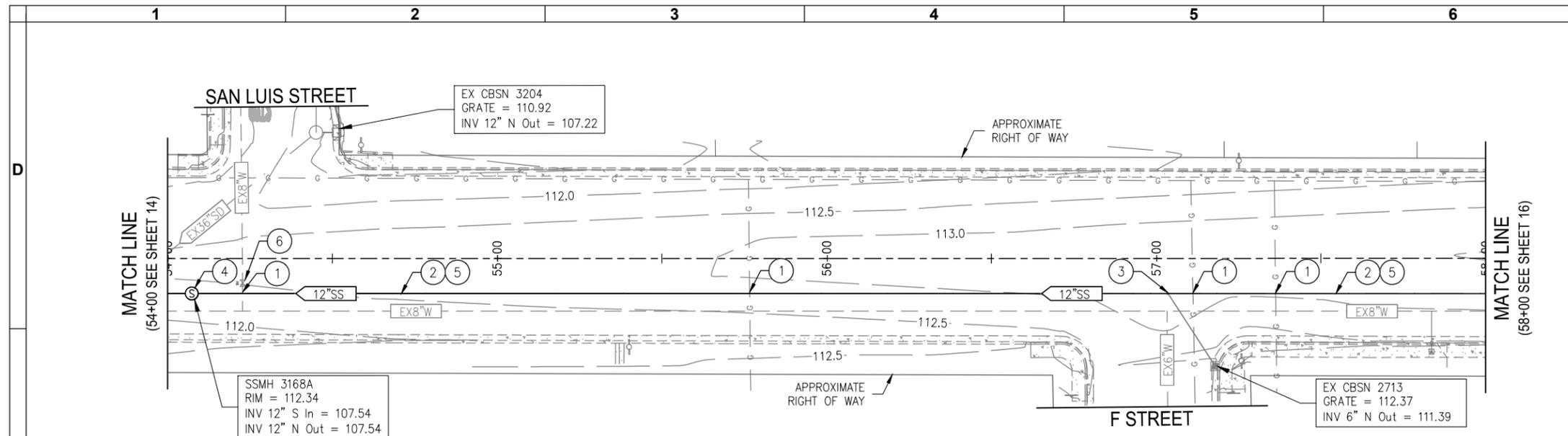
CITY OF LOS BANOS
MERCEY SPRINGS SEWER LINE REPLACEMENT
PLAN AND PROFILE
STA. 50+00 TO 54+00

DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-114
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 14
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02

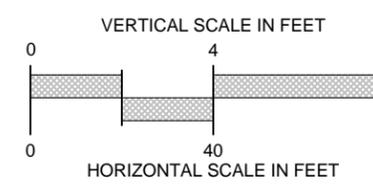
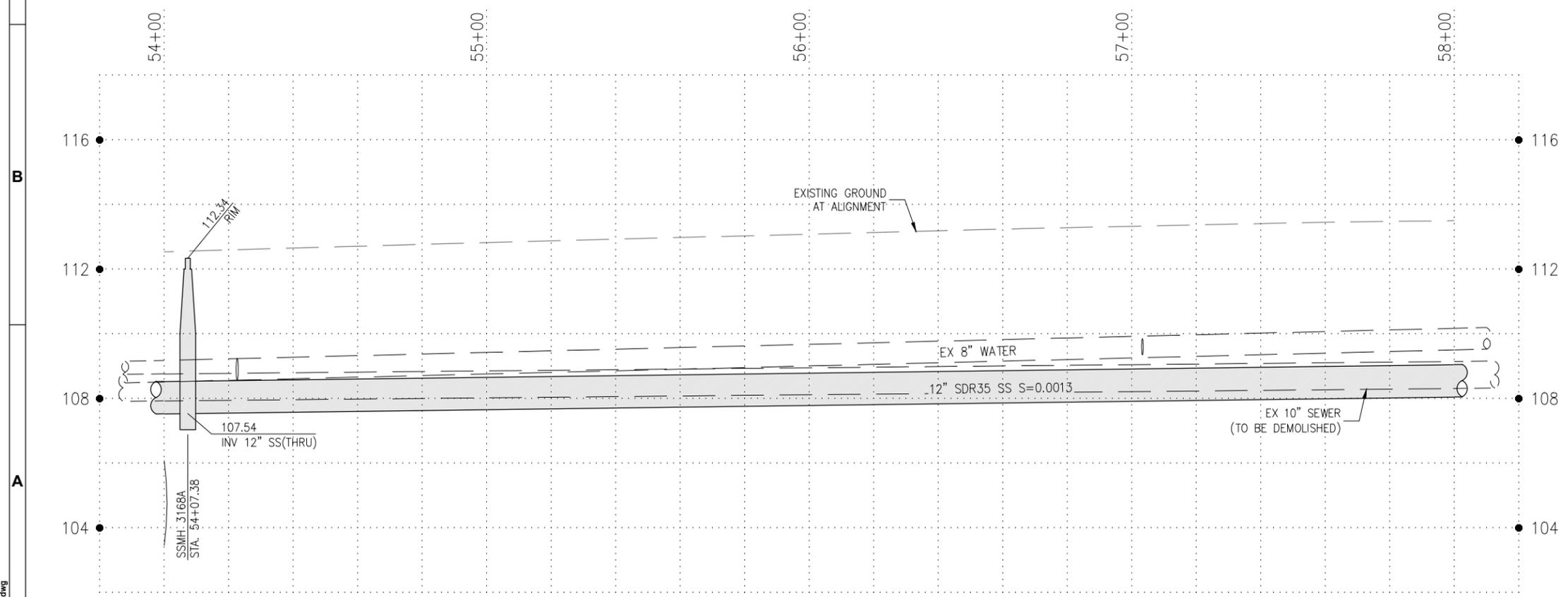
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	CALTRANS PERMIT NO.
10	MER	165/152	PM 8.79 - 9.94/PM 21.08 - 21.57	1016-NUK-0179

CONSTRUCTION NOTES		REFERENCE DETAIL
UNDERGROUND IMPROVEMENTS		
①	LOCATE AND PROTECT EXISTING UTILITIES IN PLACE.	
②	REMOVE OR CRUSH IN PLACE THE EXISTING SEWER LINE AS REQUIRED FOR CONSTRUCTION. INSTALL NEW 12" SDR-35 SEWER LINE ALONG EXISTING ALIGNMENT.	②/32
③	RECONNECT EXISTING STORM DRAIN LINE TO NEW SEWER LINE.	①/32
④	CONSTRUCT NEW MANHOLE.	①/32
SURFACE IMPROVEMENTS		
⑤	REMOVE AND REPLACE EXISTING AC WITHIN TRENCH AREA. TRENCH AREA EDGES ARE TO BE SAWCUT. AC MAY BE PULVERIZED AND REUSED AS BASE BELOW AB.	②/32
⑥	ADJUST EXISTING WATER VALVE COVER TO GRADE.	③/33

ESTIMATED QUANTITIES	
INSTALL 12" SEWER LINE	400 LF
CONSTRUCT MANHOLE	1 EA
WATER VALVE ADJUSTMENT	1 EA



MERCY SPRINGS ROAD
 STATION 54+00 - 58+00



May 02 2016 - 2:20pm
 V:\C\1615002\cad\plm\et18302C-114.dwg

REV	DATE	DESCRIPTION	INTL
1			
2			

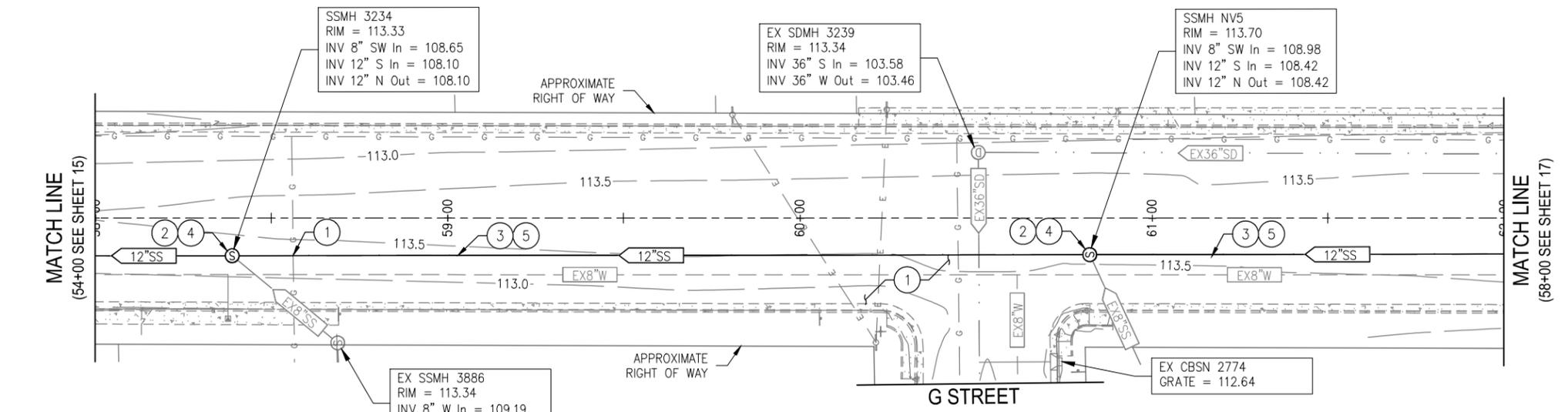
OWNERSHIP OF DOCUMENTS
 THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

GOUVEIA ENGINEERING, INC.
 CONSULTING ENGINEERS
 456 Sixth Street • Gustine, California 95322
 Telephone (209) 854-3300 • Fax (209) 854-3600

CITY OF LOS BANOS
MERCY SPRINGS SEWER LINE REPLACEMENT
PLAN AND PROFILE
STA. 54+00 TO 58+00

DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-115
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 15
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02

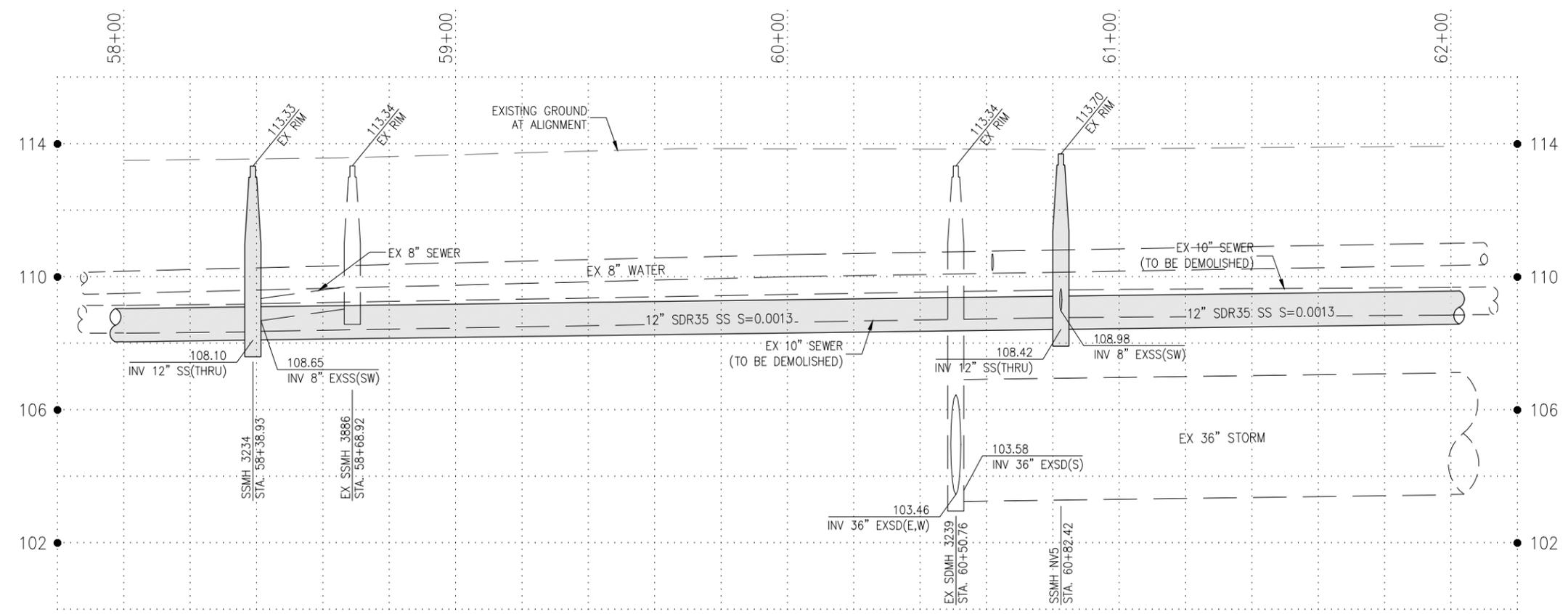
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	CALTRANS PERMIT NO.
10	MER	165/152	PM 8.79 - 9.94/PM 21.08 - 21.57	1016-NUK-0179



CONSTRUCTION NOTES		REFERENCE DETAIL
UNDERGROUND IMPROVEMENTS		
1	LOCATE AND PROTECT EXISTING UTILITIES IN PLACE.	
2	REMOVE EXISTING SEWER MANHOLE.	
3	REMOVE OR CRUSH IN PLACE EXISTING SEWER LINE AS REQUIRED FOR CONSTRUCTION. INSTALL NEW 12" SDR-35 SEWER LINE ALONG EXISTING ALIGNMENT.	2/32
4	CONSTRUCT NEW MANHOLE AND CONNECT EXISTING FACILITIES.	1/32
SURFACE IMPROVEMENTS		
5	REMOVE AND REPLACE EXISTING AC WITHIN TRENCH AREA. TRENCH AREA EDGES ARE TO BE SAWCUT. AC MAY BE PULVERIZED AND REUSED AS BASE BELOW AB.	2/32

ESTIMATED QUANTITIES	
MANHOLES REMOVED	2 EA
INSTALL 12" SEWER LINE	400 LF
CONSTRUCT MANHOLE	2 EA

MERCY SPRINGS ROAD
 STATION 58+00 - 62+00



VERTICAL SCALE IN FEET
 0 4 8
 0 40 80
 HORIZONTAL SCALE IN FEET

**Know what's below.
Call before you dig.**

May 02 2016 - 2:30pm
 V:\C\16153002\cad\plm\sheet\8302C-114.dwg

REV	DATE	DESCRIPTION	INTL

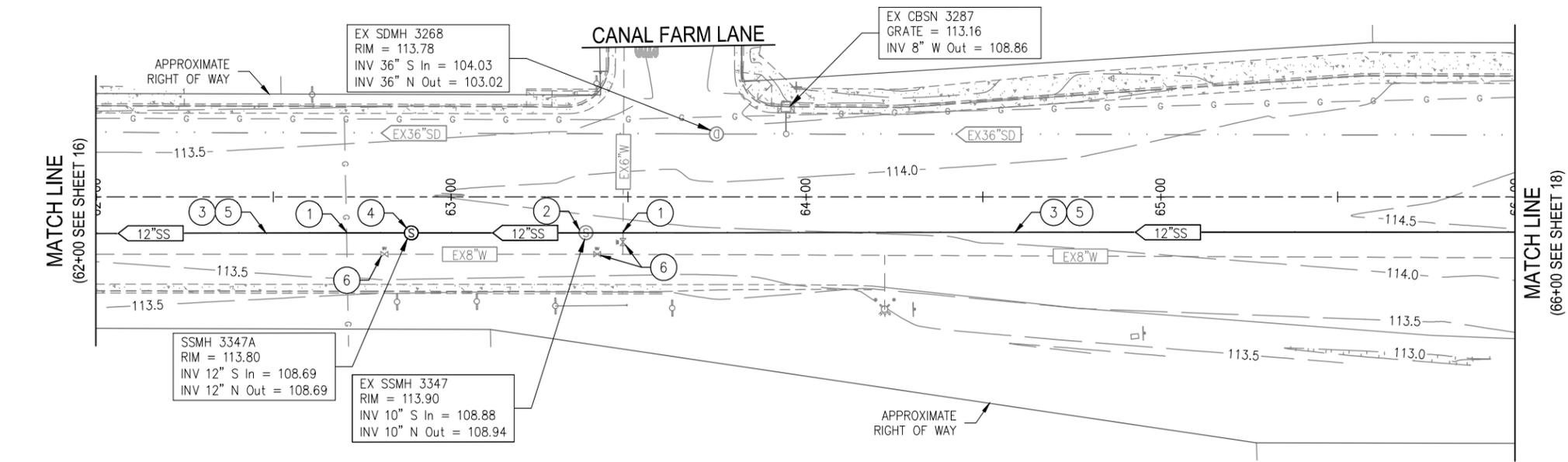
OWNERSHIP OF DOCUMENTS
 THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

GOUVEIA ENGINEERING, INC.
 CONSULTING ENGINEERS
 456 Sixth Street • Gustine, California 95322
 Telephone (209) 854-3300 • Fax (209) 854-3600

CITY OF LOS BANOS
MERCY SPRINGS SEWER LINE REPLACEMENT
PLAN AND PROFILE
STA. 58+00 TO 62+00

DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-116
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 16
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02

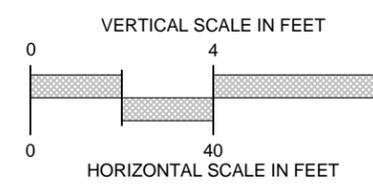
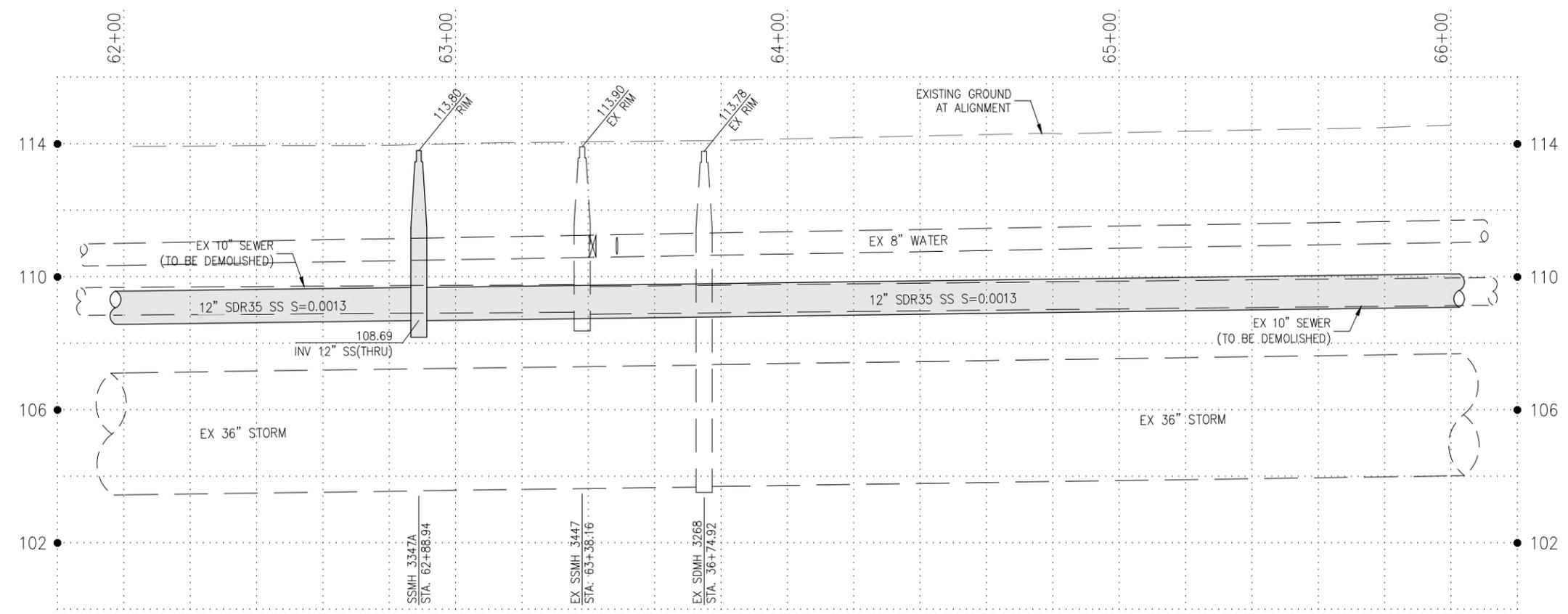
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	CALTRANS PERMIT NO.
10	MER	165/152	PM 8.79 - 9.94/PM 21.08 - 21.57	1016-NUK-0179



CONSTRUCTION NOTES		REFERENCE DETAIL
UNDERGROUND IMPROVEMENTS		
1	LOCATE AND PROTECT EXISTING UTILITIES IN PLACE.	
2	REMOVE EXISTING SEWER MANHOLE.	2/32
3	REMOVE OR CRUSH IN THE PLACE EXISTING SEWER LINE AS REQUIRED FOR CONSTRUCTION. INSTALL NEW 12\"/>	

ESTIMATED QUANTITIES	
MANHOLES REMOVED	1 EA
INSTALL 12\"/>	

MERCY SPRINGS ROAD
 STATION 62+00 - 66+00



REV	DATE	DESCRIPTION	INTL
1			
2			

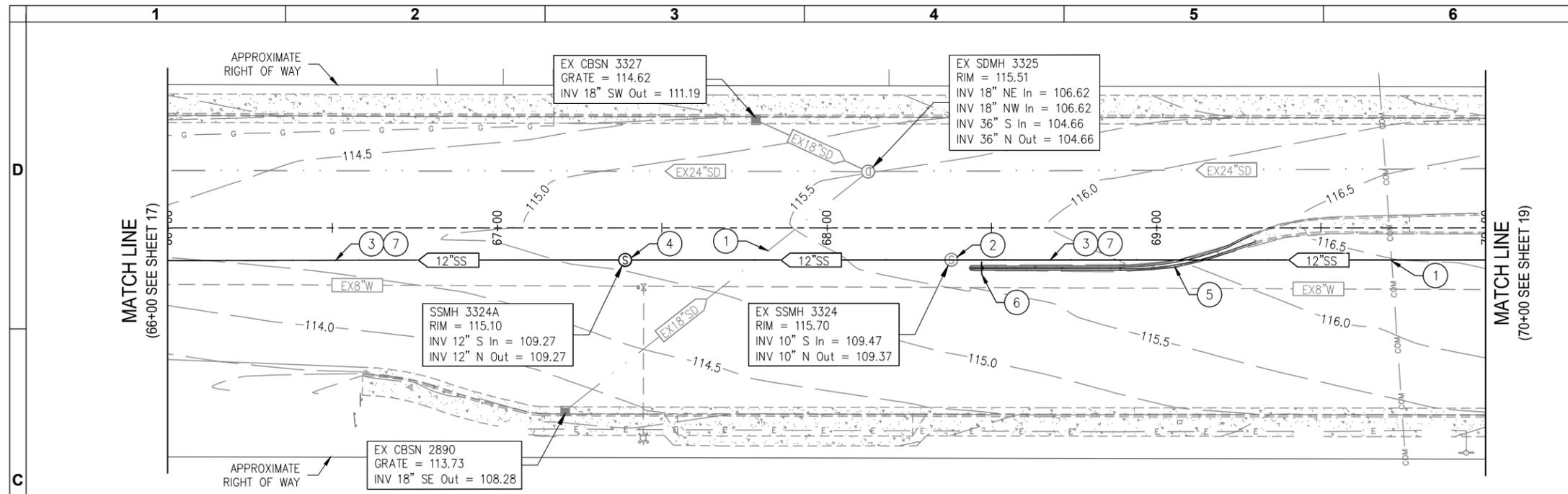
OWNERSHIP OF DOCUMENTS
 THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

GOUVEIA ENGINEERING, INC.
 CONSULTING ENGINEERS
 456 Sixth Street • Gustine, California 95322
 Telephone (209) 854-3300 • Fax (209) 854-3600

CITY OF LOS BANOS
MERCY SPRINGS SEWER LINE REPLACEMENT
PLAN AND PROFILE
STA. 62+00 TO 66+00

DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-117
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 17
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02

May 02 2016 - 2:31pm
 V:\C\161830\02\cad\plansheet\83002C-114.dwg



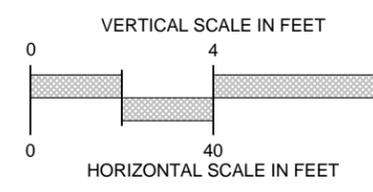
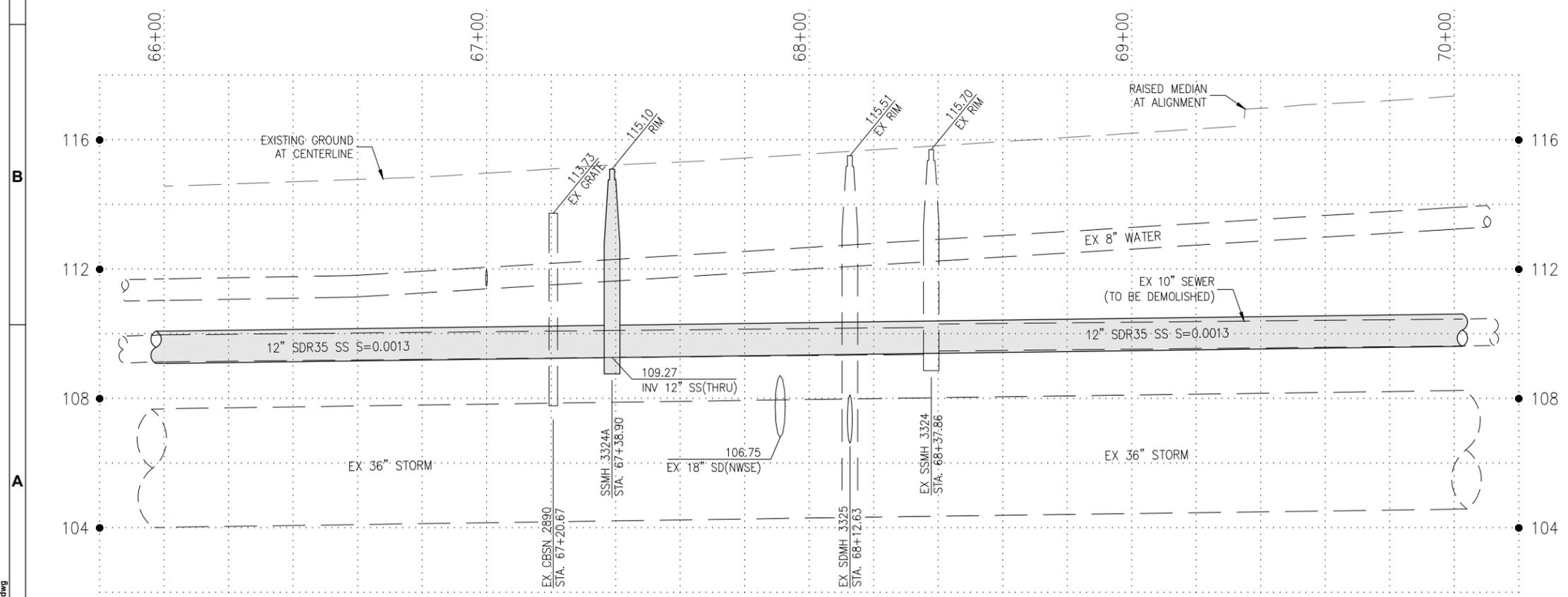
- ### CONSTRUCTION NOTES
- UNDERGROUND IMPROVEMENTS**
- LOCATE AND PROTECT EXISTING UTILITIES IN PLACE.
 - REMOVE EXISTING SEWER MANHOLE.
 - REMOVE OR CRUSH IN PLACE THE EXISTING SEWER LINE AS REQUIRED FOR CONSTRUCTION. INSTALL NEW 12" SDR-35 SEWER LINE ALONG EXISTING ALIGNMENT.
 - CONSTRUCT NEW MANHOLE.
- SURFACE IMPROVEMENTS**
- REMOVE AND REPLACE EXISTING CONCRETE MEDIAN AS REQUIRED FOR CONSTRUCTION.
 - EXISTING SIGN TO BE REMOVED. REINSTALL EXISTING SIGN LEGEND ON NEW POST WITHIN MEDIAN.
 - REMOVE AND REPLACE EXISTING AC WITHIN TRENCH AREA. TRENCH AREA EDGES ARE TO BE SAWCUT. AC MAY BE PULVERIZED AND REUSED AS BASE BELOW AB.
- | REFERENCE DETAIL |
|------------------|
| 2/32 |
| 1/32 |
| 1/33 |
| 2/33 |
| 3/33 |

ESTIMATED QUANTITIES

MANHOLES REMOVED	1	EA
INSTALL 12" SEWER LINE	400	LF
CONSTRUCT MANHOLE	1	EA
CONCRETE MEDIAN	150	SF

MERCY SPRINGS ROAD

STATION 66+00 - 70+00



Mey 02 2016 - 2:31pm V:\C\16183002\cad\plm\sheet\83002C-114.dwg

REV	DATE	DESCRIPTION	INTL
1			
2			

OWNERSHIP OF DOCUMENTS

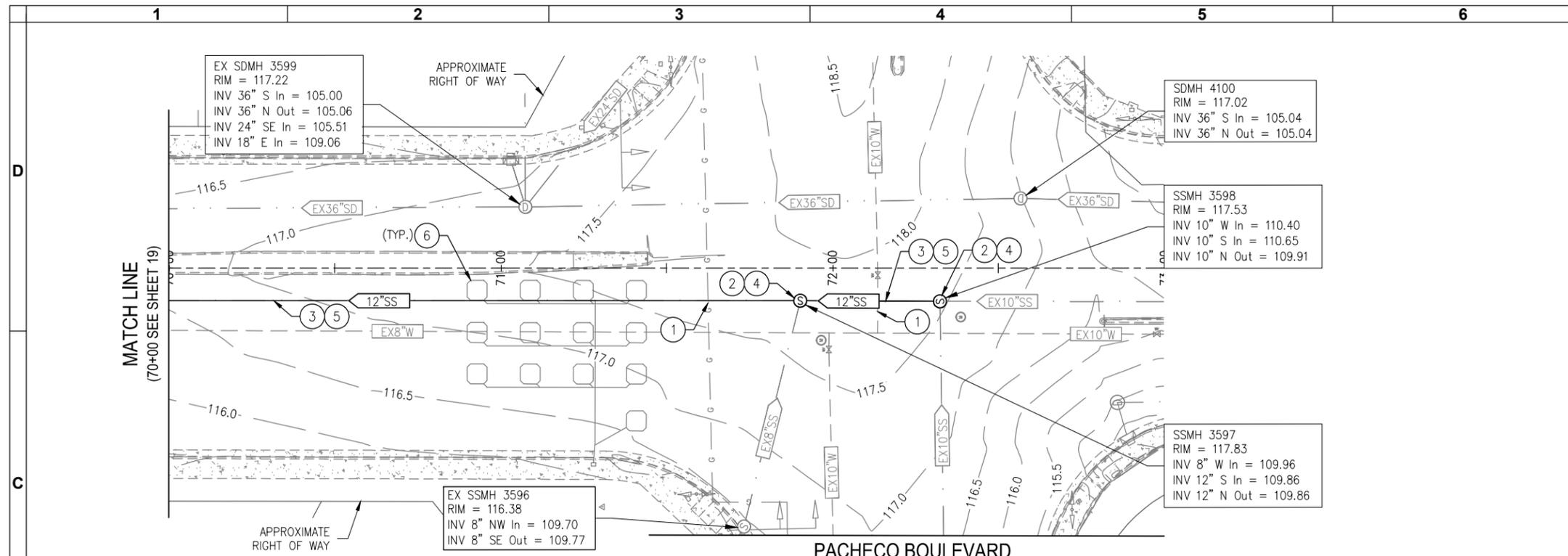
THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

GOUVEIA ENGINEERING, INC.
CONSULTING ENGINEERS

456 Sixth Street • Gustine, California 95322
Telephone (209) 854-3300 • Fax (209) 854-3600

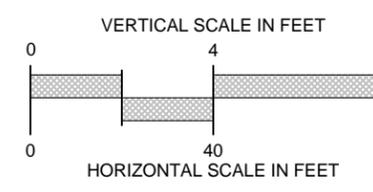
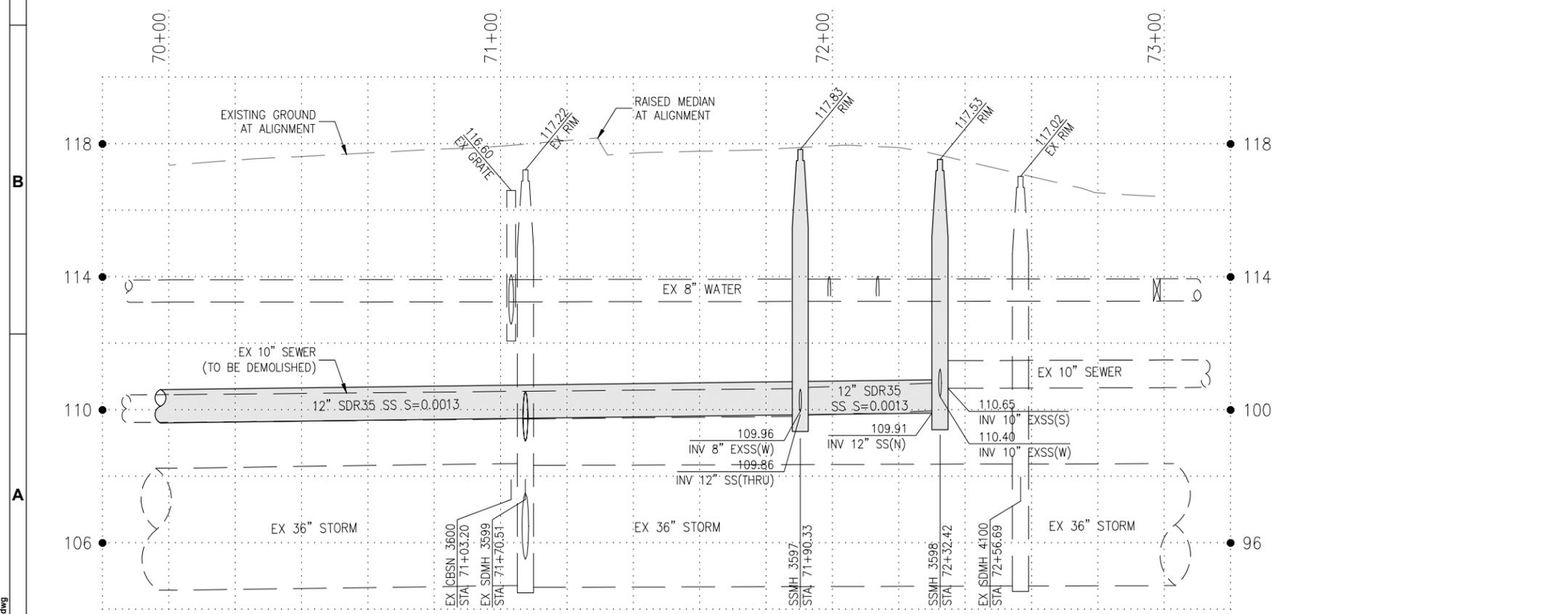
CITY OF LOS BANOS
MERCY SPRINGS SEWER LINE REPLACEMENT
PLAN AND PROFILE
STA. 66+00 TO 70+00

DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-118
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 18
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02



CONSTRUCTION NOTES		REFERENCE DETAIL
UNDERGROUND IMPROVEMENTS		
1	LOCATE AND PROTECT EXISTING UTILITIES IN PLACE.	
2	REMOVE EXISTING SEWER MANHOLE.	
3	REMOVE OR CRUSH IN PLACE THE EXISTING SEWER LINE AS REQUIRED FOR CONSTRUCTION. INSTALL NEW 12" SDR-35 SEWER LINE ALONG EXISTING ALIGNMENT.	2/32
4	CONSTRUCT NEW MANHOLE AND CONNECT EXISTING FACILITIES.	1/32
SURFACE IMPROVEMENTS		
5	REMOVE AND REPLACE EXISTING AC WITHIN TRENCH AREA. TRENCH AREA EDGES ARE TO BE SAWCUT. AC MAY BE PULVERIZED AND REUSED AS BASE BELOW AB.	2/32
6	REMOVE AND REPLACE TRAFFIC SENSOR LOOPS DAMAGED DURING CONSTRUCTION OR AS DIRECTED BY CALTRANS FIELD ENGINEER. LOOPS SHALL BE REPLACED IN THEIR ENTIRETY STARTING AT THE SOURCE PULL BOX. SPLICING SENSOR LOOPS WILL NOT PERMITTED. LOOP REPLACEMENT SHALL FOLLOW THE CURRENT CALTRANS STANDARDS AND SPECIFICATIONS. APPROXIMATE LOCATION AND CONFIGURATION IS SHOWN.	

ESTIMATED QUANTITIES	
MANHOLES REMOVED	2 EA
INSTALL 12" SEWER LINE	232 LF
CONSTRUCT MANHOLE	2 EA
TRAFFIC SENSOR LOOP REPAIRS	4 EA



REV	DATE	DESCRIPTION	INTL
1			
2			

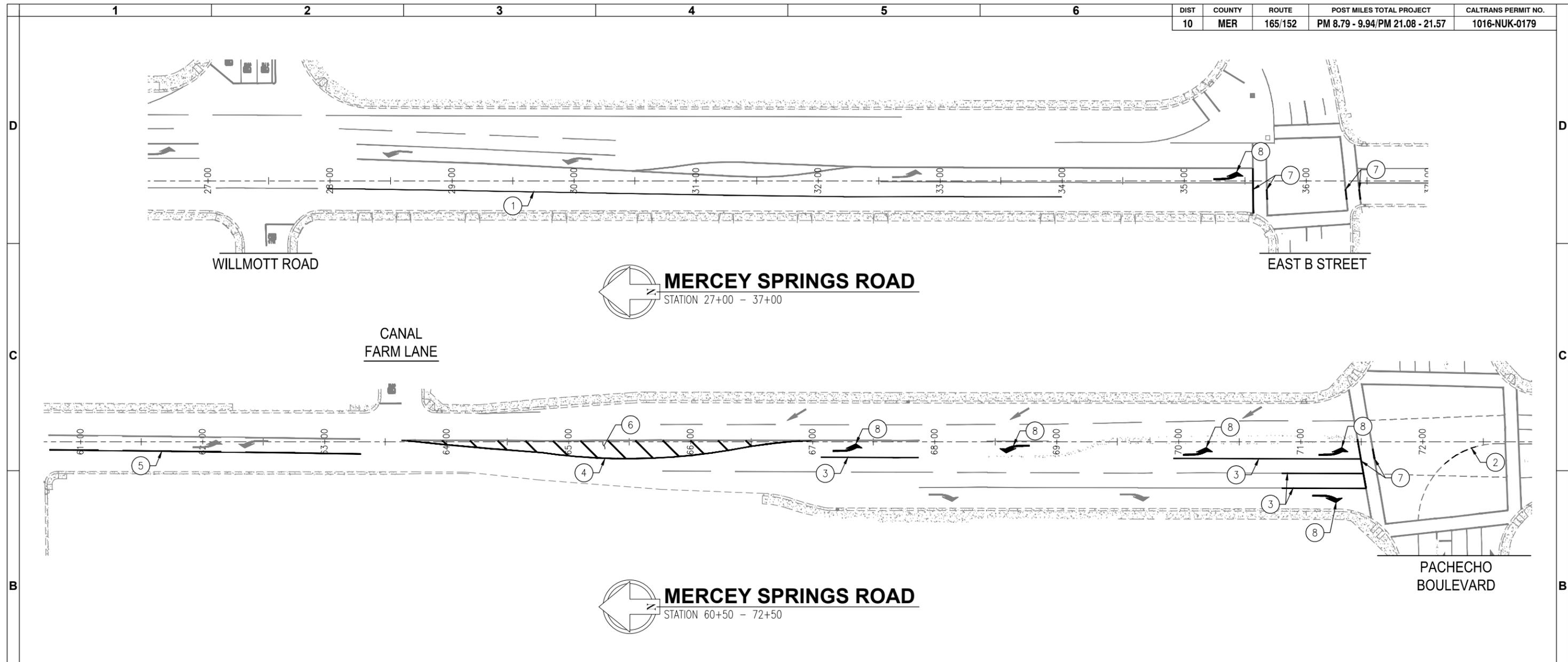
OWNERSHIP OF DOCUMENTS
 THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

GOUVEIA ENGINEERING, INC.
 CONSULTING ENGINEERS
 456 Sixth Street • Gustine, California 95322
 Telephone (209) 854-3300 • Fax (209) 854-3600

CITY OF LOS BANOS
MERCY SPRINGS SEWER LINE REPLACEMENT
PLAN AND PROFILE
STA. 70+00 TO 73+00

DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-119
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 19
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02

May 02 2016 - 2:31pm
 V:\C\16150\02\cad\plan\1615002C-114.dwg



CONSTRUCTION NOTES	
①	APPLY 4" SINGLE SOLID WHITE EDGELINE.
②	APPLY 4" SINGLE DASHED WHITE LINE.
③	APPLY 8" SINGLE SOLID WHITE LINE.
④	APPLY 4" DOUBLE SOLID YELLOW LINE.
⑤	APPLY 4" DOUBLE YELLOW LINE. INTERIOR LINE IS DASHED AND EXTERIOR LINE IS SOLID.
⑥	REPAIR 12" SINGLE SOLID YELLOW MARKING WITHIN MEDIAN.
⑦	REPAIR PEDESTRIAN CROSSWALK, MATCH EXISTING COLOR.
⑧	APPLY TRAFFIC TURN MARKING.

STRIPING AND MARKING NOTES	
1.	ESTIMATED QUANTITIES AND LOCATION OF REPAIRS IS BASE ON AN ASSUMED PAVEMENT REPAIR WIDTH. EXACT LOCATION AND EXTENT OF REPAIRS TO BE DETERMINED AREA AFFECTED BY CONSTRUCTION AND BY CALTRANS FIELD ENGINEER.
2.	ALL STRIPING AND MARKINGS ARE TO BE PLACED IN ACCORDANCE WITH THE CALTRANS STANDARD PLANS.

ESTIMATED QUANTITIES	
STRIPING	1,590 LF
MARKING	535 SF



REV	DATE	DESCRIPTION	INTL

OWNERSHIP OF DOCUMENTS
 THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

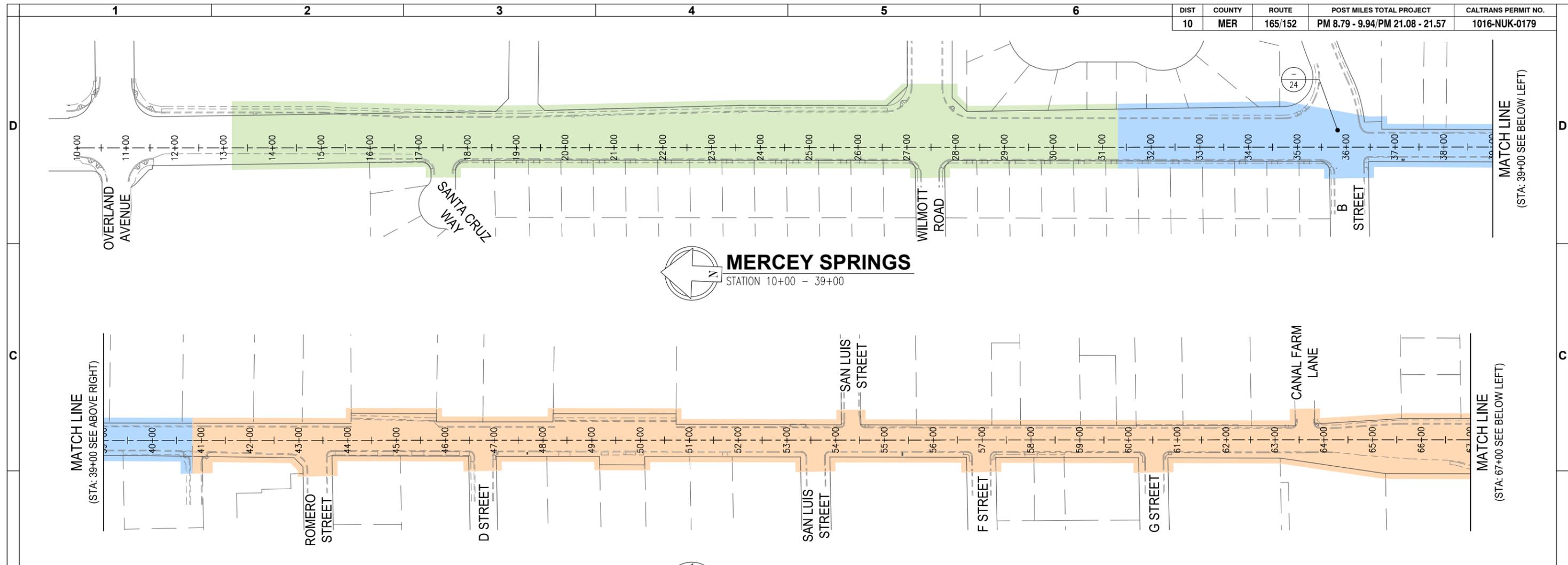
GOUVEIA ENGINEERING, INC.
 CONSULTING ENGINEERS
 456 Sixth Street • Gustine, California 95322
 Telephone (209) 854-3300 • Fax (209) 854-3600

CITY OF LOS BANOS
MERCHEY SPRINGS SEWER LINE REPLACEMENT
STRIPING PLAN

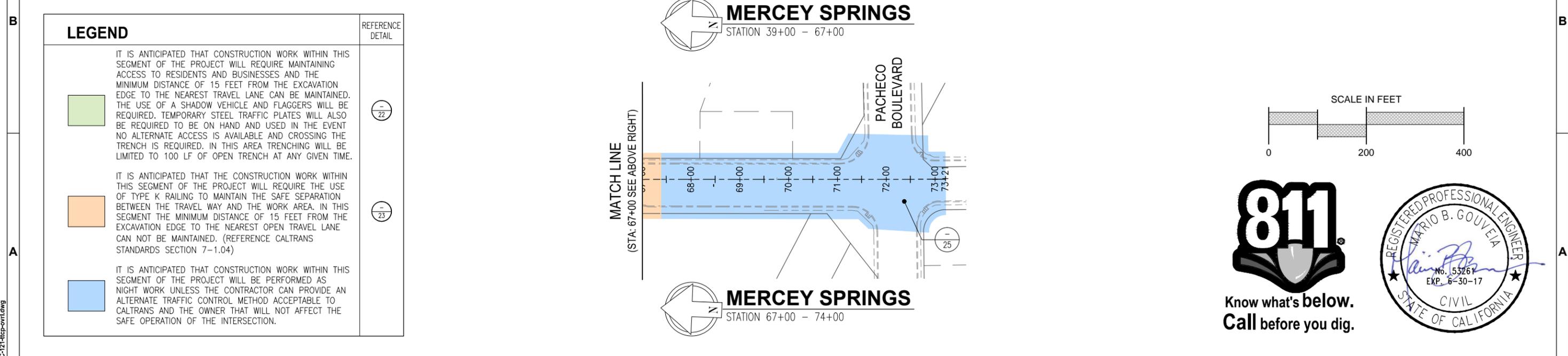
DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-120
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 20
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02

May 02 2016 - 2:37pm
 V:\C\16183002\CAD\plans\et183002C-120-strip.dwg

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	CALTRANS PERMIT NO.
10	MER	165/152	PM 8.79 - 9.94/PM 21.08 - 21.57	1016-NUK-0179



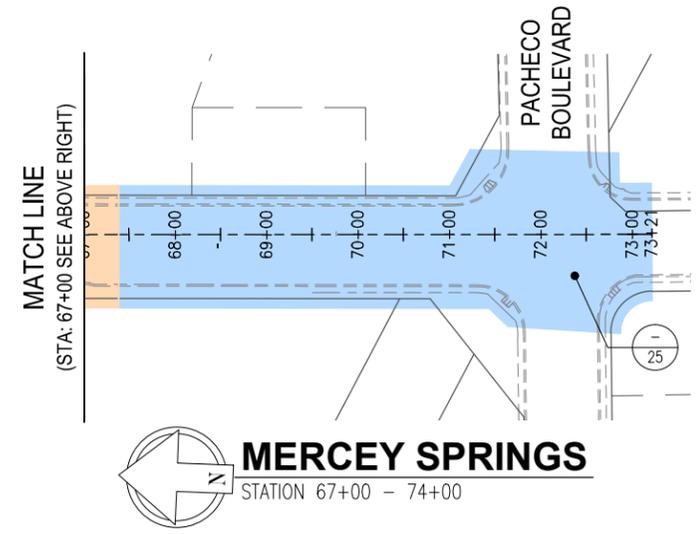
MERCY SPRINGS
STATION 10+00 - 39+00



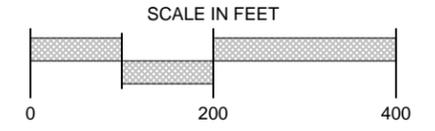
MERCY SPRINGS
STATION 39+00 - 67+00

LEGEND

	IT IS ANTICIPATED THAT CONSTRUCTION WORK WITHIN THIS SEGMENT OF THE PROJECT WILL REQUIRE MAINTAINING ACCESS TO RESIDENTS AND BUSINESSES AND THE MINIMUM DISTANCE OF 15 FEET FROM THE EXCAVATION EDGE TO THE NEAREST TRAVEL LANE CAN BE MAINTAINED. THE USE OF A SHADOW VEHICLE AND FLAGGERS WILL BE REQUIRED. TEMPORARY STEEL TRAFFIC PLATES WILL ALSO BE REQUIRED TO BE ON HAND AND USED IN THE EVENT NO ALTERNATE ACCESS IS AVAILABLE AND CROSSING THE TRENCH IS REQUIRED. IN THIS AREA TRENCHING WILL BE LIMITED TO 100 LF OF OPEN TRENCH AT ANY GIVEN TIME.	REFERENCE DETAIL 22
	IT IS ANTICIPATED THAT THE CONSTRUCTION WORK WITHIN THIS SEGMENT OF THE PROJECT WILL REQUIRE THE USE OF TYPE K RAILING TO MAINTAIN THE SAFE SEPARATION BETWEEN THE TRAVEL WAY AND THE WORK AREA. IN THIS SEGMENT THE MINIMUM DISTANCE OF 15 FEET FROM THE EXCAVATION EDGE TO THE NEAREST OPEN TRAVEL LANE CAN NOT BE MAINTAINED. (REFERENCE CALTRANS STANDARDS SECTION 7-1.04)	23
	IT IS ANTICIPATED THAT CONSTRUCTION WORK WITHIN THIS SEGMENT OF THE PROJECT WILL BE PERFORMED AS NIGHT WORK UNLESS THE CONTRACTOR CAN PROVIDE AN ALTERNATE TRAFFIC CONTROL METHOD ACCEPTABLE TO CALTRANS AND THE OWNER THAT WILL NOT AFFECT THE SAFE OPERATION OF THE INTERSECTION.	



MERCY SPRINGS
STATION 67+00 - 74+00



REV	DATE	DESCRIPTION	INTL
1			
2			

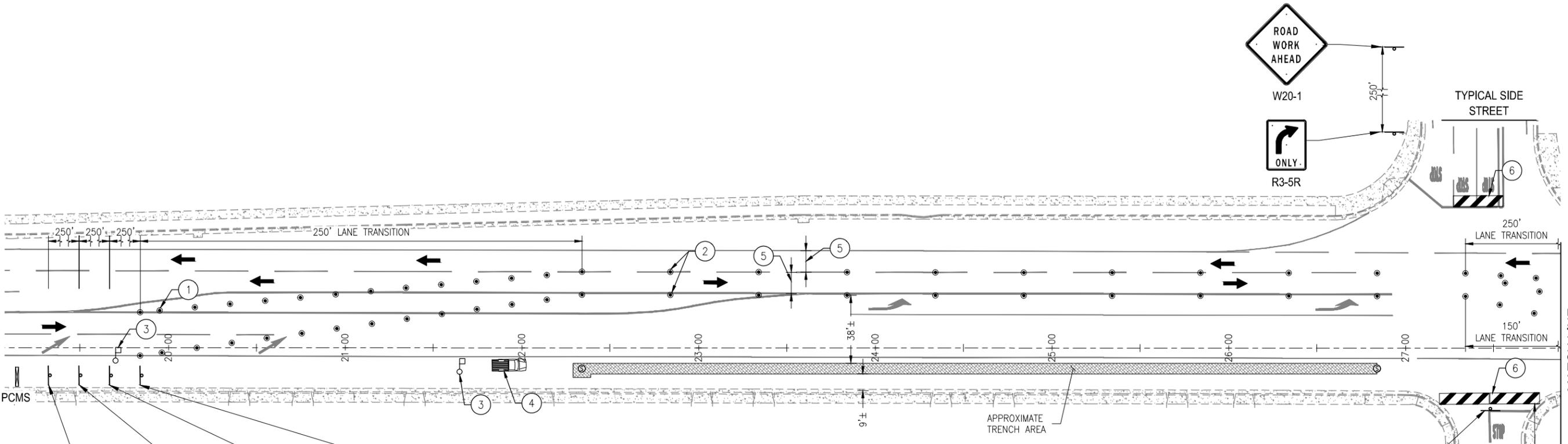
OWNERSHIP OF DOCUMENTS
THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

GOUVEIA ENGINEERING, INC.
CONSULTING ENGINEERS
456 Sixth Street • Gustine, California 95322
Telephone (209) 854-3300 • Fax (209) 854-3600

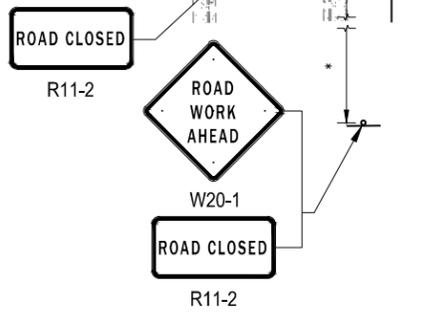
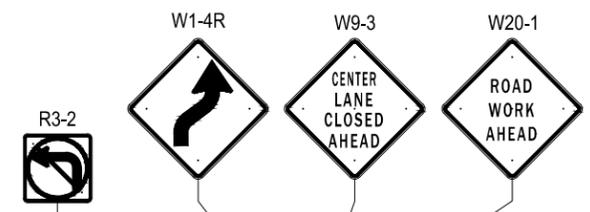
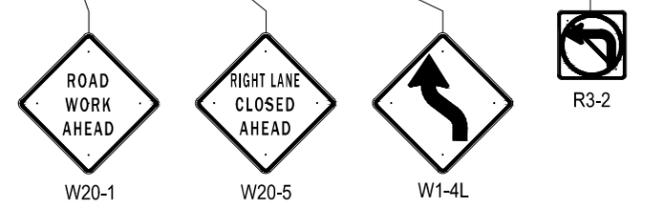
CITY OF LOS BANOS
MERCY SPRINGS SEWER LINE REPLACEMENT
OVERALL TRAFFIC MANAGEMENT PLAN

DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-121
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 21
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02

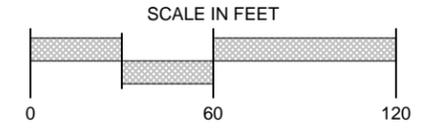
May 02 2016 - 2:38pm
 V:\C\1615002\cad\plm\et183002C-121\trp-cvrt.dwg



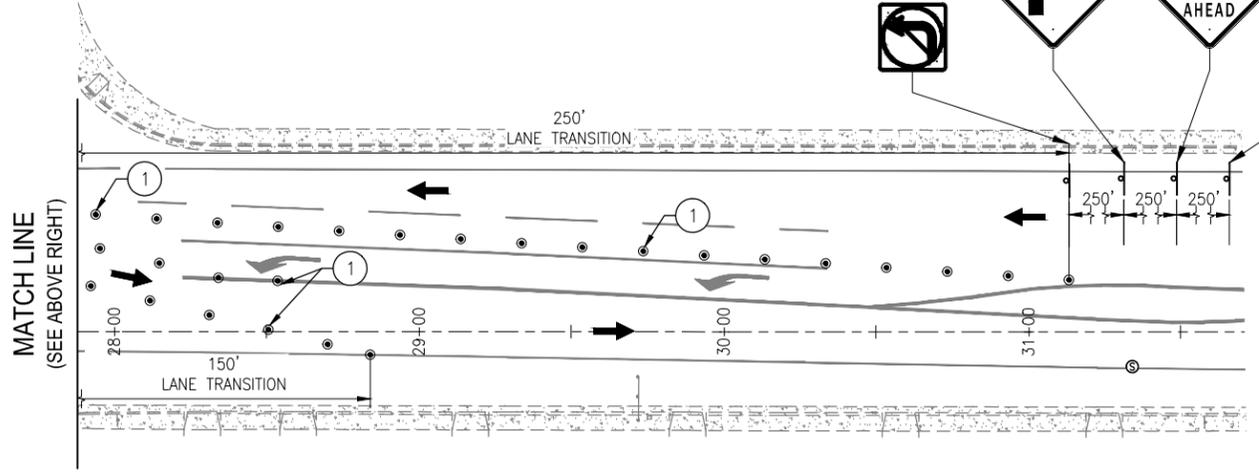
MERCEY SPRINGS SR-165
TYPICAL LANE SHIFT



* ROAD SIGNS SHALL BE LOCATED AT THE NEAREST INTERSECTION BEFORE THE ROAD CLOSURE.



CONSTRUCTION NOTES		REFERENCE DETAIL
1	CONES/DELINEATORS WITH 20'-0" SPACING (TYP).	4/34
2	CONES/DELINEATORS WITH 50'-0" SPACING (TYP).	4/34
3	FLAGGER DIRECTING ACCESS TO RESIDENTIAL.	
4	SHADOW VEHICLE	
5	12'-0" MINIMUM CLEAR TRAVEL LANE.	
6	INSTALL TYPE III BARRICADES WITH FLASHERS.	5/34



May 02 2016 - 2:50pm
 V:\C\LE183002\Cad\plan\et183002C-122-4trp-phas.dwg

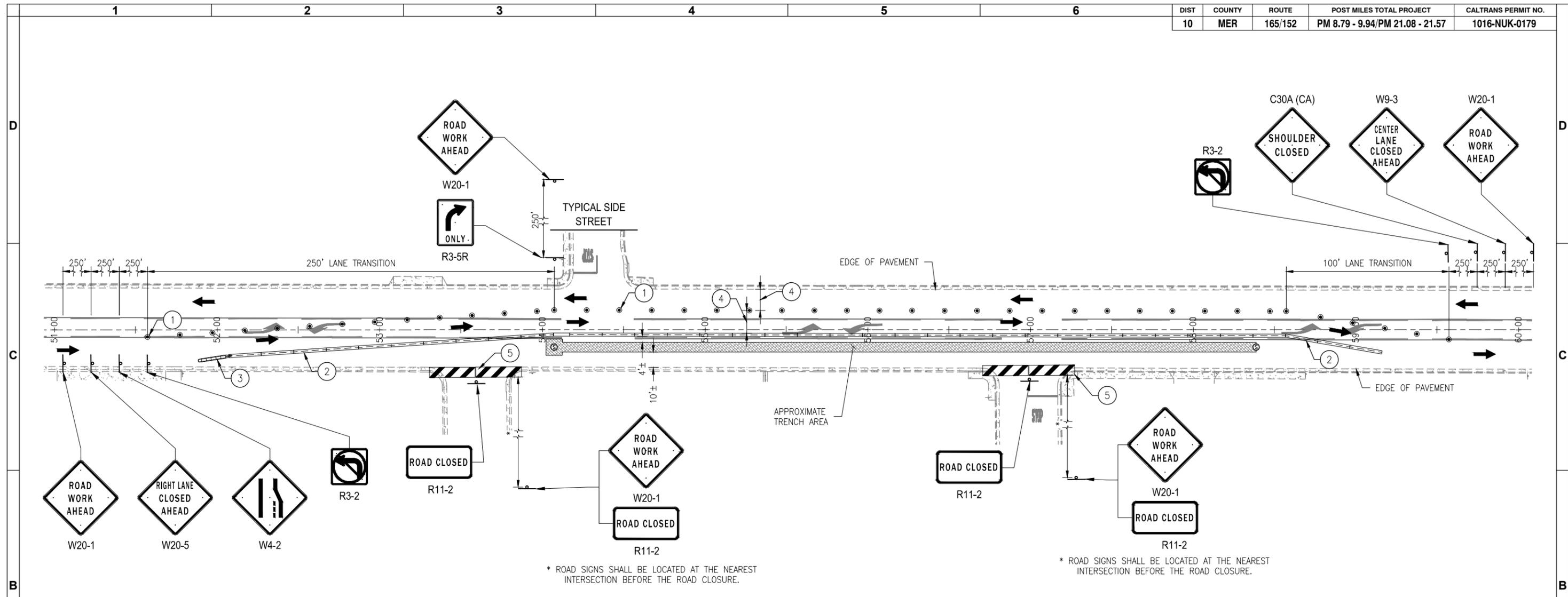
REV	DATE	DESCRIPTION	INTL

OWNERSHIP OF DOCUMENTS
 THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

GOUVEIA ENGINEERING, INC.
 CONSULTING ENGINEERS
 456 Sixth Street • Gustine, California 95322
 Telephone (209) 854-3300 • Fax (209) 854-3600

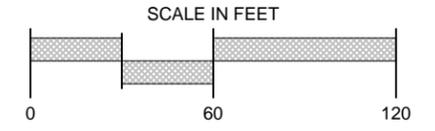
CITY OF LOS BANOS
MERCEY SPRINGS SEWER LINE REPLACEMENT
TYPICAL LANE SHIFT WITHOUT TYPE K RAILING
TRAFFIC MANAGEMENT PLAN

DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-122
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 22
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02



* ROAD SIGNS SHALL BE LOCATED AT THE NEAREST INTERSECTION BEFORE THE ROAD CLOSURE.

MERCY SPRINGS SR-165
TYPICAL TYPE K RAILING INSTALLATION



CONSTRUCTION NOTES	REFERENCE DETAIL
1 CONES/DELINEATORS WITH 20'-0" SPACING (TYP).	4/34
2 PLACE TYPE K-RAILING IN MANAGEABLE LENGTHS ALONG THE WORK AREA.	2/34
3 INSTALL CRASH CUSHION.	5/34
4 12'-0" CLEAR TRAVEL LANE.	
5 INSTALL TYPE III BARRICADES WITH FLASHERS.	

811
Know what's below.
Call before you dig.

REV	DATE	DESCRIPTION	INTL

OWNERSHIP OF DOCUMENTS
THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

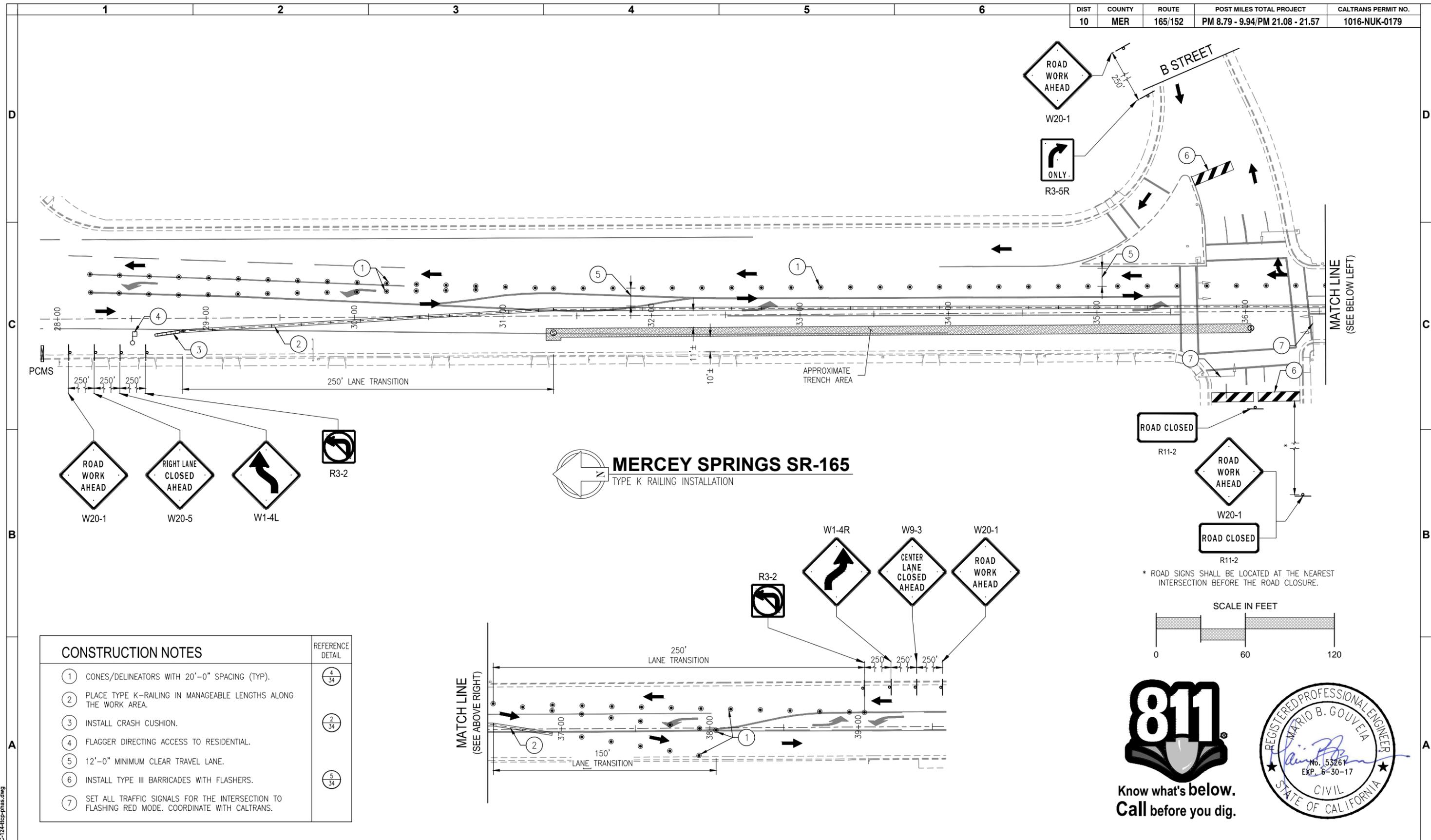
GOUVEIA ENGINEERING, INC.
CONSULTING ENGINEERS
456 Sixth Street • Gustine, California 95322
Telephone (209) 854-3300 • Fax (209) 854-3600

CITY OF LOS BANOS
MERCY SPRINGS SEWER LINE REPLACEMENT
TYPICAL LANE SHIFT WITH TYPE K RAILING
TRAFFIC MANAGEMENT PLAN

DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-123
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 23
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02

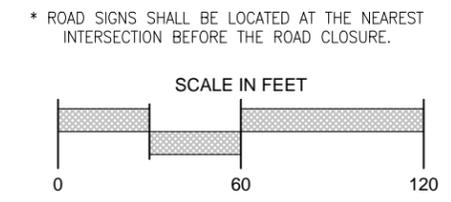
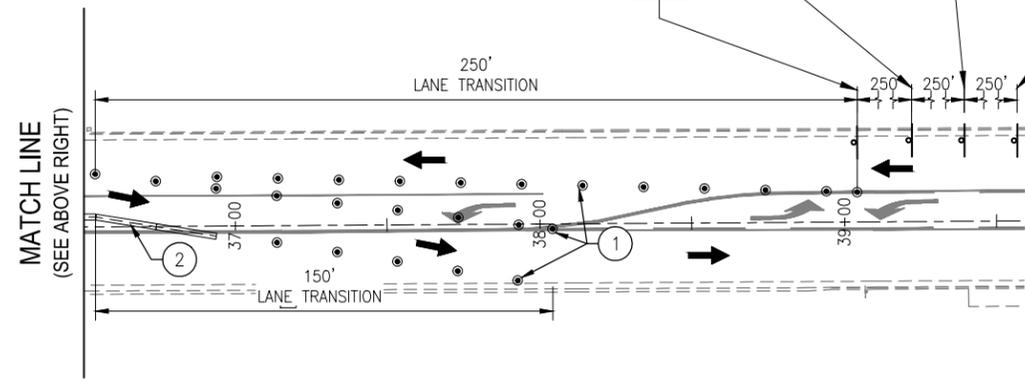
May 03, 2016 - 2:50pm
 V:\C\16183002\cad\plans\16183002-C-123-4trp-phas.dwg

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	CALTRANS PERMIT NO.
10	MER	165/152	PM 8.79 - 9.94/PM 21.08 - 21.57	1016-NUK-0179



MERCEY SPRINGS SR-165
TYPE K RAILING INSTALLATION

CONSTRUCTION NOTES		REFERENCE DETAIL
1	CONES/DELINEATORS WITH 20'-0" SPACING (TYP).	4/34
2	PLACE TYPE K-RAILING IN MANAGEABLE LENGTHS ALONG THE WORK AREA.	2/34
3	INSTALL CRASH CUSHION.	2/34
4	FLAGGER DIRECTING ACCESS TO RESIDENTIAL.	5/34
5	12'-0" MINIMUM CLEAR TRAVEL LANE.	5/34
6	INSTALL TYPE III BARRICADES WITH FLASHERS.	
7	SET ALL TRAFFIC SIGNALS FOR THE INTERSECTION TO FLASHING RED MODE. COORDINATE WITH CALTRANS.	



REV	DATE	DESCRIPTION	INTL
1			
2			

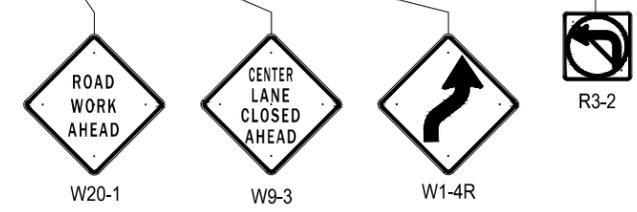
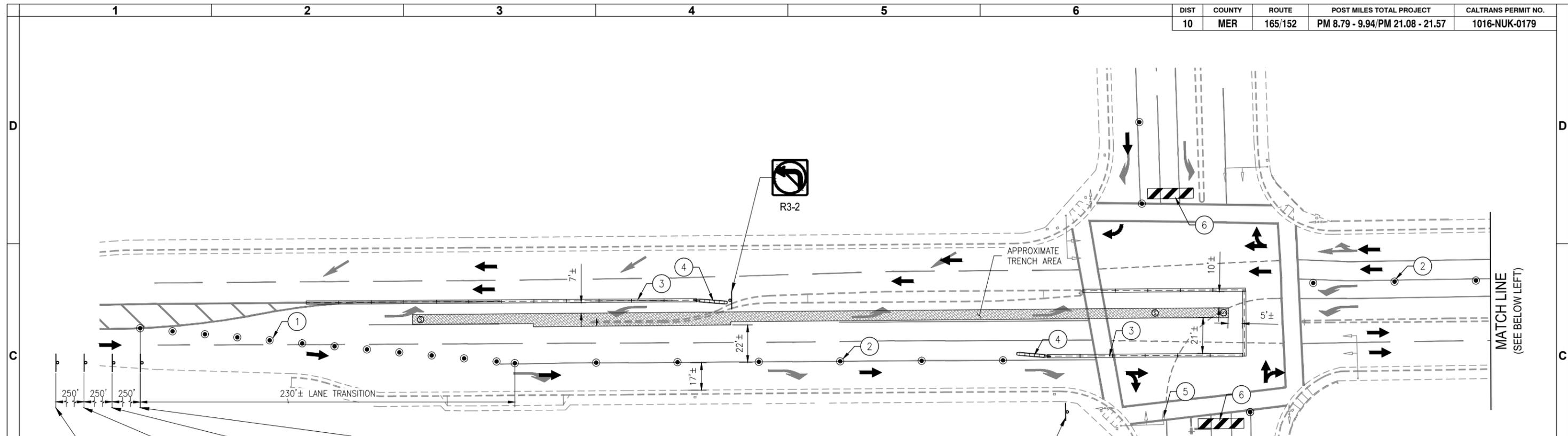
OWNERSHIP OF DOCUMENTS
THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

GOUVEIA ENGINEERING, INC.
CONSULTING ENGINEERS
456 Sixth Street • Gustine, California 95322
Telephone (209) 854-3300 • Fax (209) 854-3600

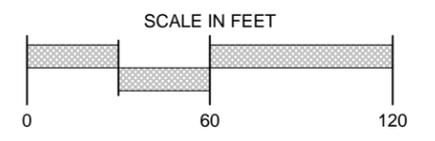
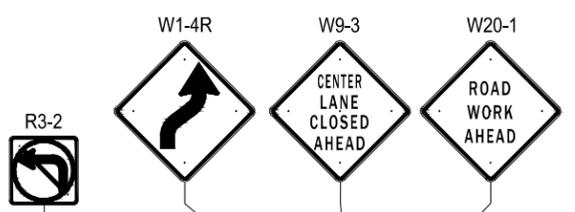
CITY OF LOS BANOS
MERCEY SPRINGS SEWER LINE REPLACEMENT
TRAFFIC MANAGEMENT PLAN
FOR SR-165 AT THE B STREET INTERSECTION

DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-124
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 24
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02

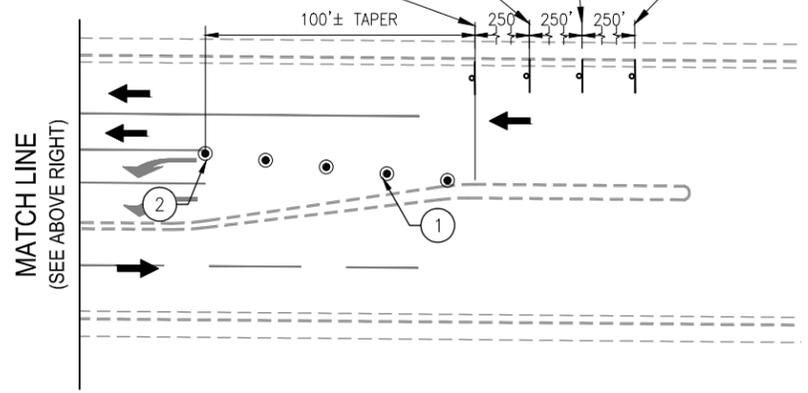
May 02, 2016 - 2:41pm
 V:\C\16183002\cad\plm\et183002C-124-4trp-phas.dwg



MERCEY SPRINGS SR-165
 TYPE K RAILING INSTALLATION



CONSTRUCTION NOTES	REFERENCE DETAIL
1 CONES/DELINEATORS WITH 20'-0" SPACING (TYP).	4/34
2 CONES/DELINEATORS WITH 50'-0" SPACING (TYP).	2/34
3 PLACE TYPE K-RAILING IN MANAGEABLE LENGTHS ALONG THE WORK AREA.	5/34
4 INSTALL CRASH CUSHION.	5/34
5 SET ALL TRAFFIC SIGNALS FOR THE INTERSECTION TO FLASHING RED MODE. COORDINATE WITH CALTRANS.	5/34
6 INSTALL TYPE III BARRICADES WITH FLASHERS.	5/34



May 03 2016 - 2:42pm
 V:\C\16163002\cad\plans\16163002C-124-14cp-phas.dwg

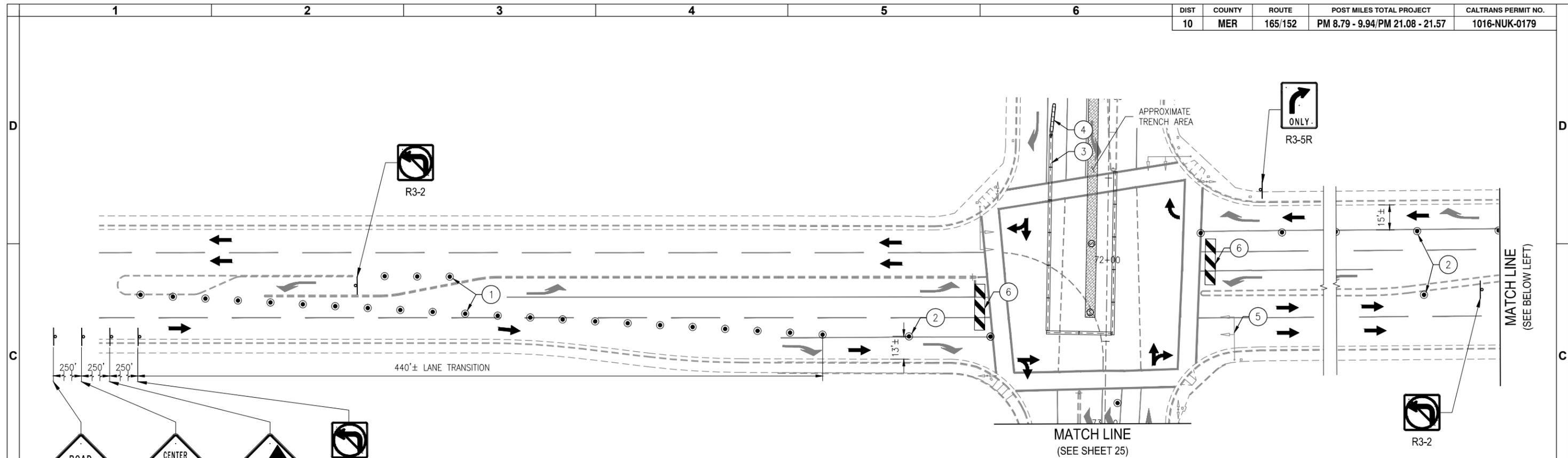
REV	DATE	DESCRIPTION	INTL

OWNERSHIP OF DOCUMENTS
 THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

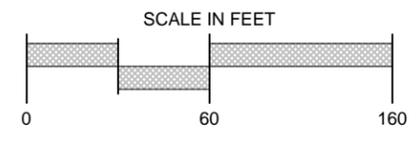
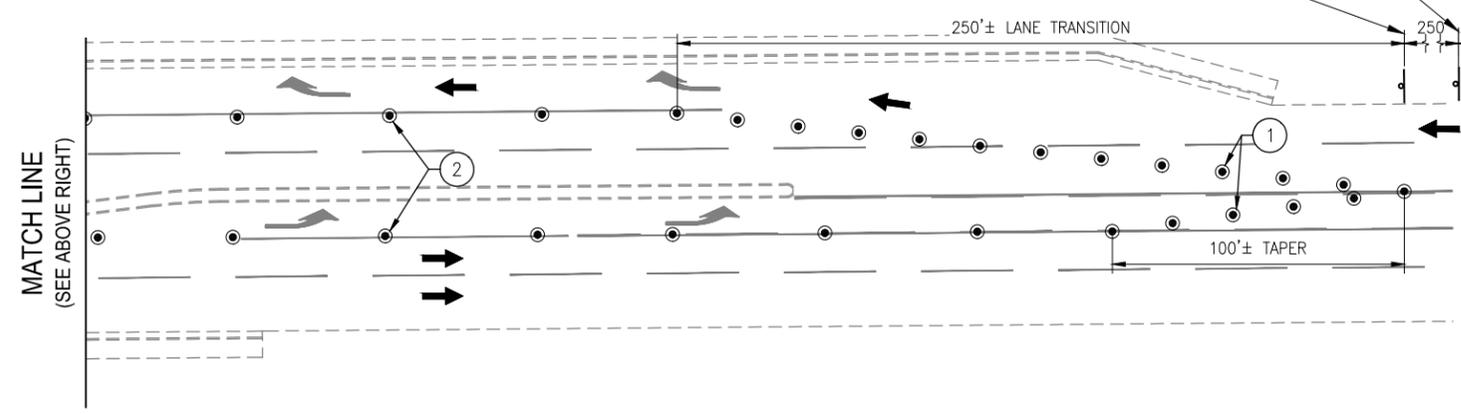
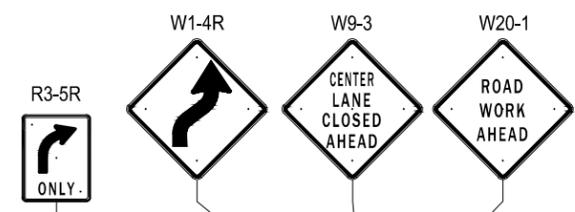
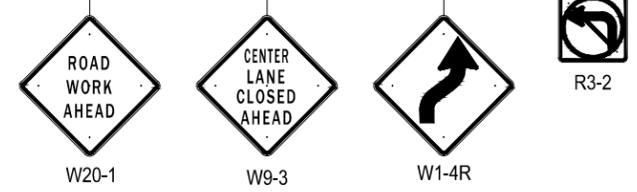
GOUVEIA ENGINEERING, INC.
 CONSULTING ENGINEERS
 456 Sixth Street • Gustine, California 95322
 Telephone (209) 854-3300 • Fax (209) 854-3600

CITY OF LOS BANOS
MERCEY SPRINGS SEWER LINE REPLACEMENT
TRAFFIC MANAGEMENT PLAN
FOR SR-165 AT SR-152 INTERSECTION

DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-125
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 25
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02




PACHECO BOULEVARD SR-152
 LANE SHIFT



CONSTRUCTION NOTES	REFERENCE DETAIL
① CONES/DELINEATORS WITH 20'-0" SPACING (TYP).	
② CONES/DELINEATORS WITH 50'-0" SPACING (TYP).	
③ PLACE TYPE K-RAILING IN MANAGEABLE LENGTHS ALONG THE WORK AREA.	
④ INSTALL CRASH CUSHION.	
⑤ SET ALL TRAFFIC SIGNALS FOR THE INTERSECTION TO FLASHING RED MODE. COORDINATE WITH CALTRANS.	
⑥ INSTALL TYPE III BARRICADES WITH FLASHERS.	



May 02 2016 - 2:42pm
 V:\C\1615002\cad\plan\1615002C-124-14cp-phas.dwg

REV	DATE	DESCRIPTION	INTL

OWNERSHIP OF DOCUMENTS
 THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

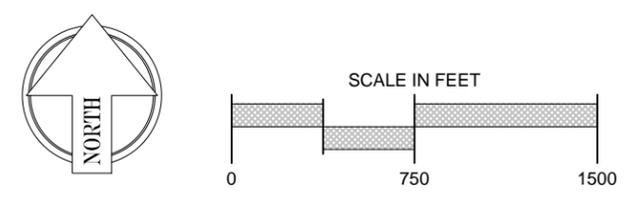
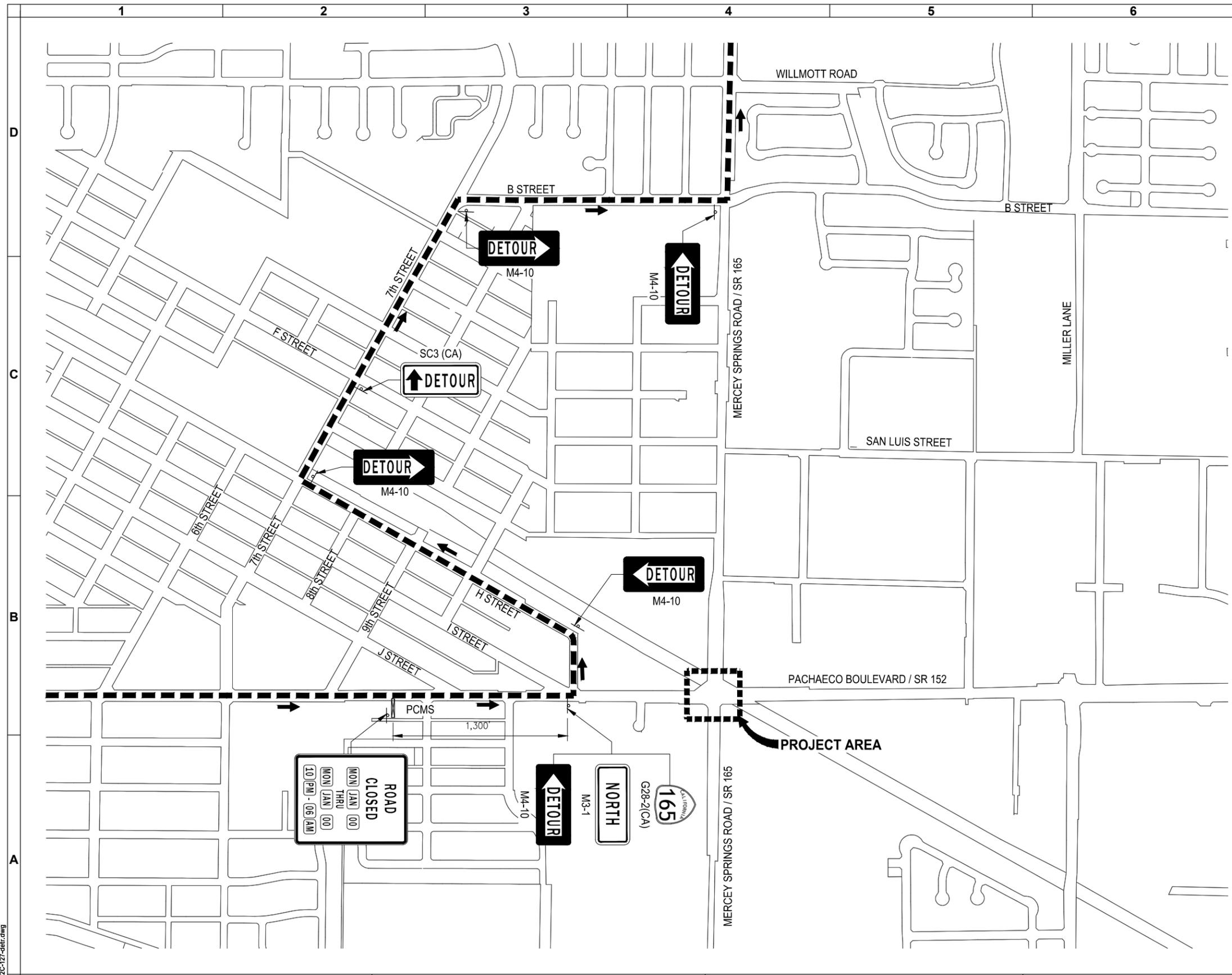

GOUVEIA ENGINEERING, INC.
 CONSULTING ENGINEERS
 456 Sixth Street • Gustine, California 95322
 Telephone (209) 854-3300 • Fax (209) 854-3600

CITY OF LOS BANOS
MERCY SPRINGS SEWER LINE REPLACEMENT
TRAFFIC MANAGEMENT PLAN
FOR SR-152 AT THE SR-165 INTERSECTION

DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-126
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 26
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	CALTRANS PERMIT NO.
10	MER	165/152	PM 8.79 - 9.94/PM 21.08 - 21.57	1016-NUK-0179

- ### DETOUR NOTES
- DETOUR ROUTING AND TRAFFIC CONTROL SIGNS FOR EASTBOUND TRAFFIC ON SR 152 DURING CONSTRUCTION WITHIN THE INTERSECTION AT SR 165.
 - THIS SHEET SHOWS THE DETOUR ROUTING AND TRAFFIC CONTROL SIGNS THAT ARE OUTSIDE OF THE CONSTRUCTION AREAS. SEE SHEETS 28-31 FOR ADDITIONAL DETOUR ROUTES. SEE SHEET 25 AND 26 FOR ALL TRAFFIC CONTROL AND ON-SITE SIGNS FOR THIS PHASE OF THE PROJECT.
 - PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) TO DISPLAY DATE, TIME, AND ROUTE REQUIRING DETOUR.
 - EASTBOUND TRAFFIC ON SR 152 WILL NOT BE ALLOWED TO TURN NORTH ONTO SR 165.
 - EASTBOUND TRAFFIC ON SR 152 WILL BE ABLE TO CONTINUE EAST THROUGH THE INTERSECTION AT SR 165 AND WILL BE ABLE TO TURN SOUTH ONTO SR 165.



REV	DATE	DESCRIPTION	INTL

OWNERSHIP OF DOCUMENTS
 THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

GOUVEIA ENGINEERING, INC.
 CONSULTING ENGINEERS
 456 Sixth Street • Gustine, California 95322
 Telephone (209) 854-3300 • Fax (209) 854-3600

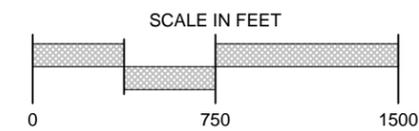
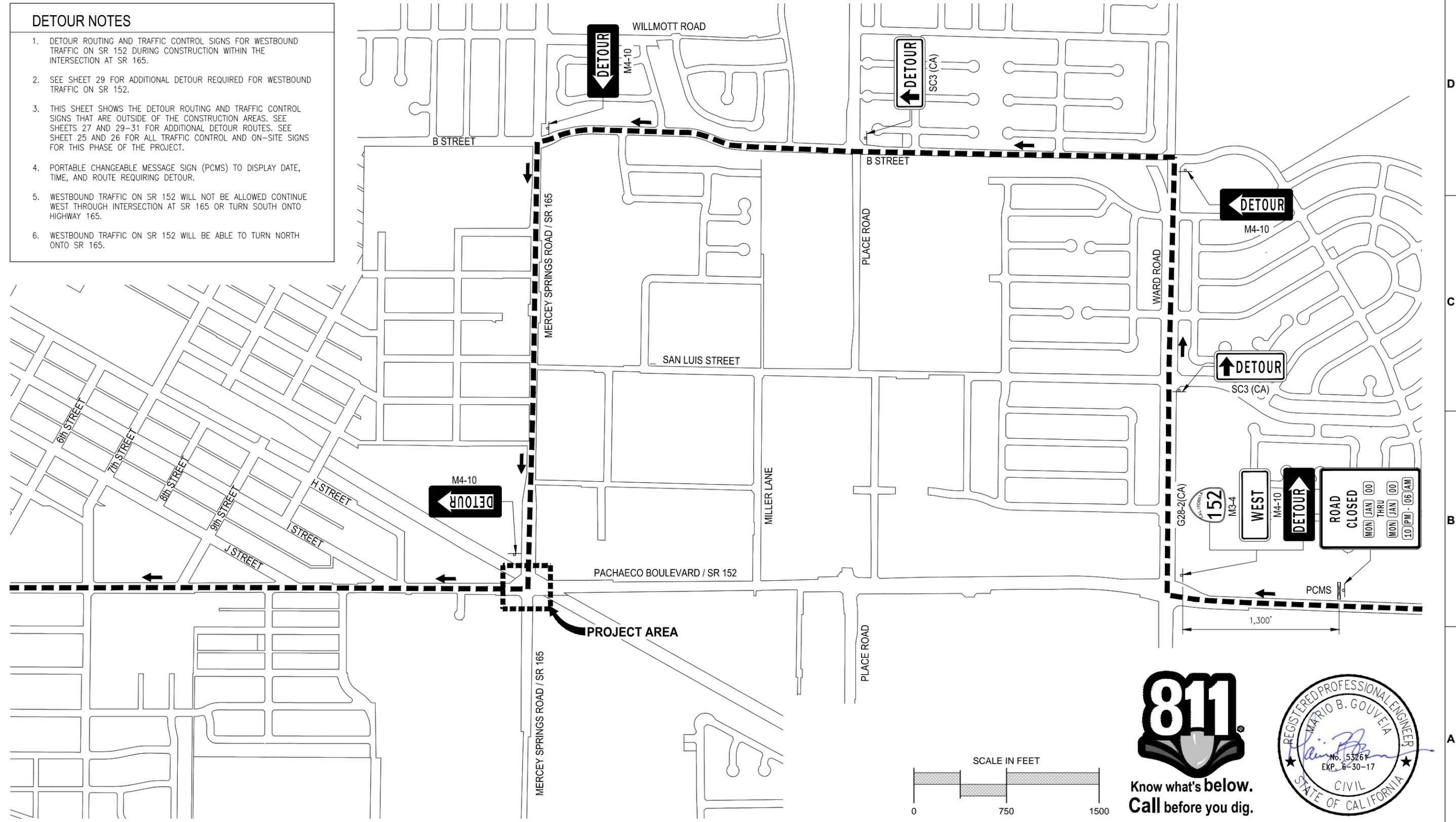
CITY OF LOS BANOS
MERCY SPRINGS SEWER LINE REPLACEMENT
DETOUR PLAN FOR
EASTBOUND TRAFFIC ON SR-152

DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-127
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 27
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02

May 02 2016 - 2:43pm
 V:\C\161502\cad\plm\et183002C-127-detr.dwg

DETOUR NOTES

- DETOUR ROUTING AND TRAFFIC CONTROL SIGNS FOR WESTBOUND TRAFFIC ON SR 152 DURING CONSTRUCTION WITHIN THE INTERSECTION AT SR 165.
- SEE SHEET 29 FOR ADDITIONAL DETOUR REQUIRED FOR WESTBOUND TRAFFIC ON SR 152.
- THIS SHEET SHOWS THE DETOUR ROUTING AND TRAFFIC CONTROL SIGNS THAT ARE OUTSIDE OF THE CONSTRUCTION AREAS. SEE SHEETS 27 AND 29-31 FOR ADDITIONAL DETOUR ROUTES. SEE SHEET 25 AND 26 FOR ALL TRAFFIC CONTROL AND ON-SITE SIGNS FOR THIS PHASE OF THE PROJECT.
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) TO DISPLAY DATE, TIME, AND ROUTE REQUIRING DETOUR.
- WESTBOUND TRAFFIC ON SR 152 WILL NOT BE ALLOWED CONTINUE WEST THROUGH INTERSECTION AT SR 165 OR TURN SOUTH ONTO HIGHWAY 165.
- WESTBOUND TRAFFIC ON SR 152 WILL BE ABLE TO TURN NORTH ONTO SR 165.



Mar_02_2016 - 2:44pm
 V:\C\16183002\cad\plans\et183002C-127-detr.dwg

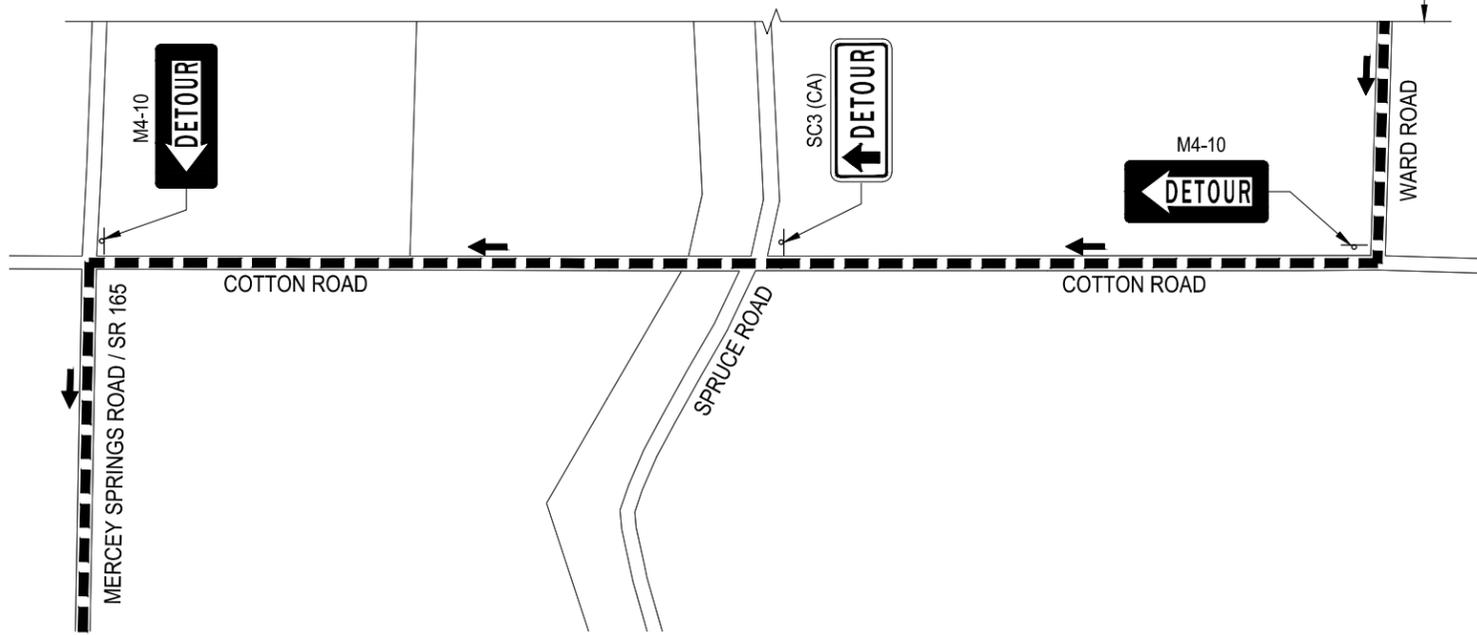
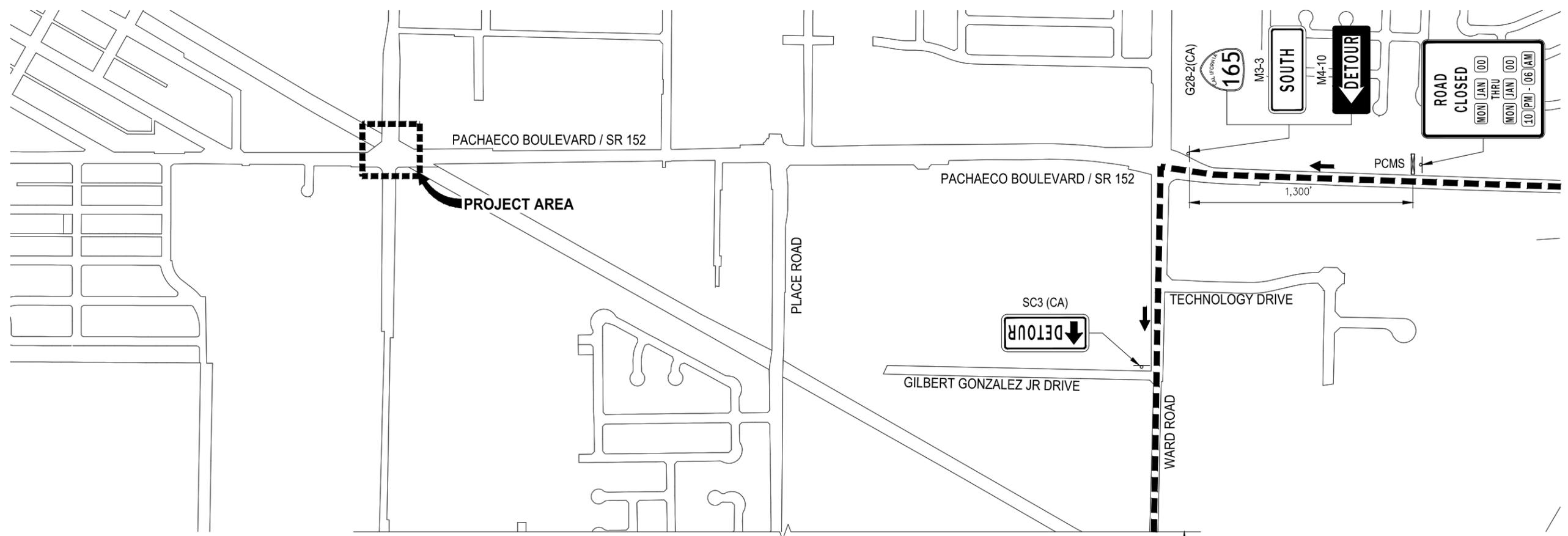
REV	DATE	DESCRIPTION	INTL

OWNERSHIP OF DOCUMENTS
 THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

GOUVEIA ENGINEERING, INC.
 CONSULTING ENGINEERS
 456 Sixth Street • Gustine, California 95322
 Telephone (209) 854-3300 • Fax (209) 854-3600

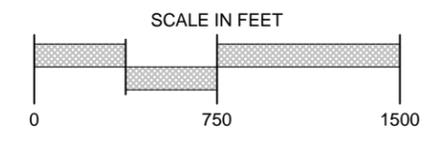
CITY OF LOS BANOS
MERCY SPRINGS SEWER LINE REPLACEMENT
DETOUR PLAN FOR
WESTBOUND TRAFFIC ON SR-152

DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-128
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 28
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02



DETOUR NOTES

1. DETOUR ROUTING AND TRAFFIC CONTROL SIGNS FOR WESTBOUND TRAFFIC ON SR 152 DURING CONSTRUCTION WITHIN THE INTERSECTION AT SR 165.
2. SEE SHEET 28 FOR ADDITIONAL DETOUR REQUIRED FOR WESTBOUND TRAFFIC ON SR 152.
3. THIS SHEET SHOWS THE DETOUR ROUTING AND TRAFFIC CONTROL SIGNS THAT ARE OUTSIDE OF THE CONSTRUCTION AREAS. SEE SHEETS 27-28 AND 30-31 FOR ADDITIONAL DETOUR ROUTES. SEE SHEET 25 AND 26 FOR ALL TRAFFIC CONTROL AND ON-SITE SIGNS FOR THIS PHASE OF THE PROJECT.
4. PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) TO DISPLAY DATE, TIME, AND ROUTE REQUIRING DETOUR.
5. WESTBOUND TRAFFIC ON SR 152 WILL NOT BE ALLOWED CONTINUE WEST THROUGH INTERSECTION AT SR 165 OR TURN SOUTH ONTO HIGHWAY 165.
6. WESTBOUND TRAFFIC ON SR 152 WILL BE ABLE TO TURN NORTH ONTO SR 165.
7. PLACE SC3 (CA) DETOUR SIGNS AT ALL INTERSECTIONS AND SPACED AT A MAXIMUM DISTANCE OF 0.5 MILES.



REV	DATE	DESCRIPTION	INTL
1			
2			

OWNERSHIP OF DOCUMENTS
 THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

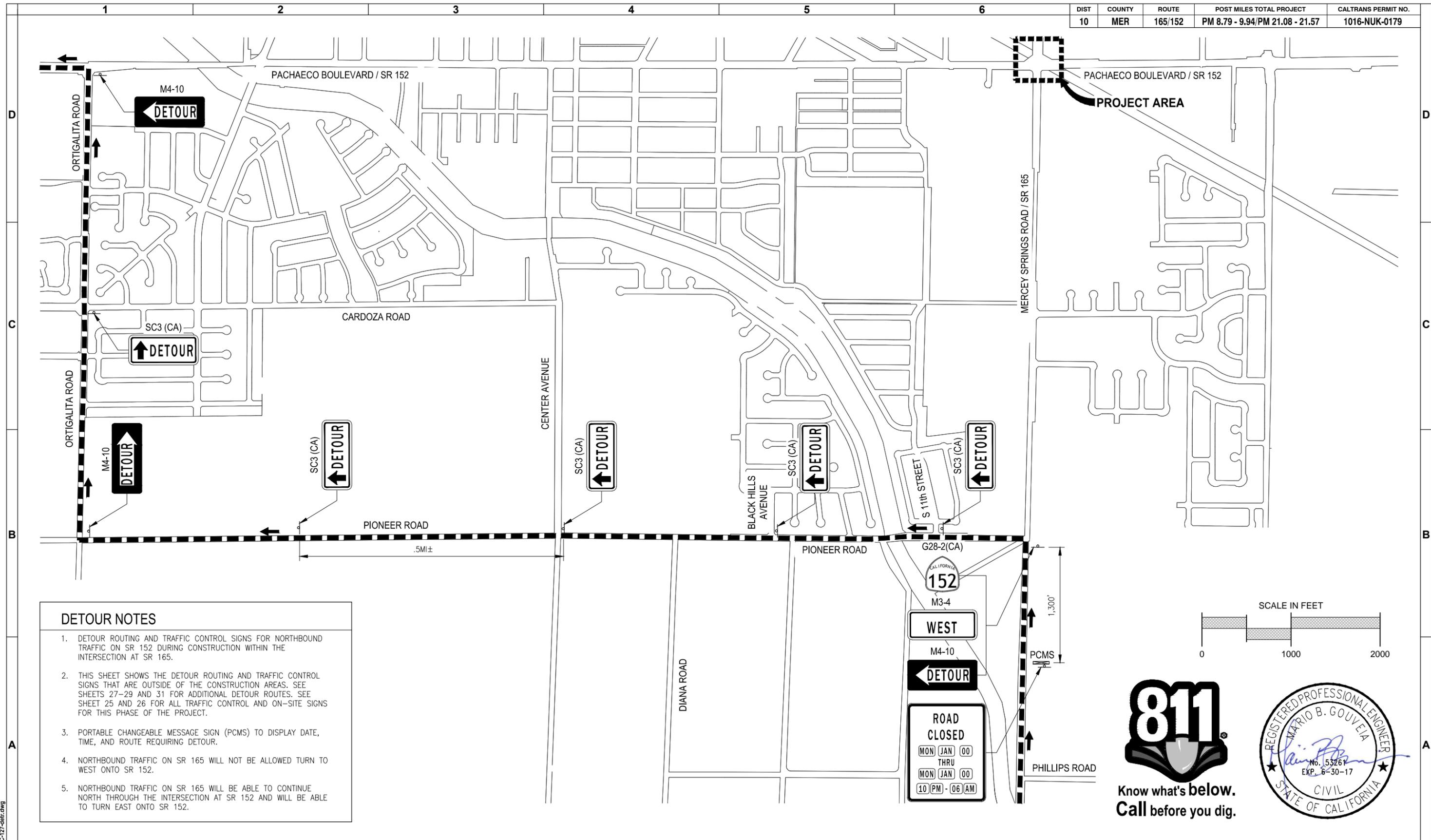
GOUVEIA ENGINEERING, INC.
 CONSULTING ENGINEERS
 456 Sixth Street • Gustine, California 95322
 Telephone (209) 854-3300 • Fax (209) 854-3600

CITY OF LOS BANOS
MERCY SPRINGS SEWER LINE REPLACEMENT
DETOUR PLAN FOR
WESTBOUND TRAFFIC ON SR-152

DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-129
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 29
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02

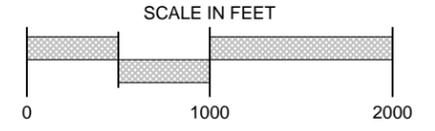
May 02 2016 - 2:44pm
 V:\C\16183002\cad\plm\et183002C-127-detr.dwg

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	CALTRANS PERMIT NO.
10	MER	165/152	PM 8.79 - 9.94/PM 21.08 - 21.57	1016-NUK-0179



DETOUR NOTES

- DETOUR ROUTING AND TRAFFIC CONTROL SIGNS FOR NORTHBOUND TRAFFIC ON SR 152 DURING CONSTRUCTION WITHIN THE INTERSECTION AT SR 165.
- THIS SHEET SHOWS THE DETOUR ROUTING AND TRAFFIC CONTROL SIGNS THAT ARE OUTSIDE OF THE CONSTRUCTION AREAS. SEE SHEETS 27-29 AND 31 FOR ADDITIONAL DETOUR ROUTES. SEE SHEET 25 AND 26 FOR ALL TRAFFIC CONTROL AND ON-SITE SIGNS FOR THIS PHASE OF THE PROJECT.
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) TO DISPLAY DATE, TIME, AND ROUTE REQUIRING DETOUR.
- NORTHBOUND TRAFFIC ON SR 165 WILL NOT BE ALLOWED TURN TO WEST ONTO SR 152.
- NORTHBOUND TRAFFIC ON SR 165 WILL BE ABLE TO CONTINUE NORTH THROUGH THE INTERSECTION AT SR 152 AND WILL BE ABLE TO TURN EAST ONTO SR 152.



REV	DATE	DESCRIPTION	INTL

OWNERSHIP OF DOCUMENTS
 THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

GOUVEIA ENGINEERING, INC.
 CONSULTING ENGINEERS
 456 Sixth Street • Gustine, California 95322
 Telephone (209) 854-3300 • Fax (209) 854-3600

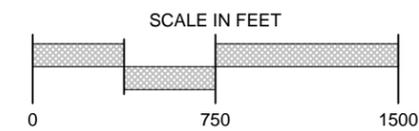
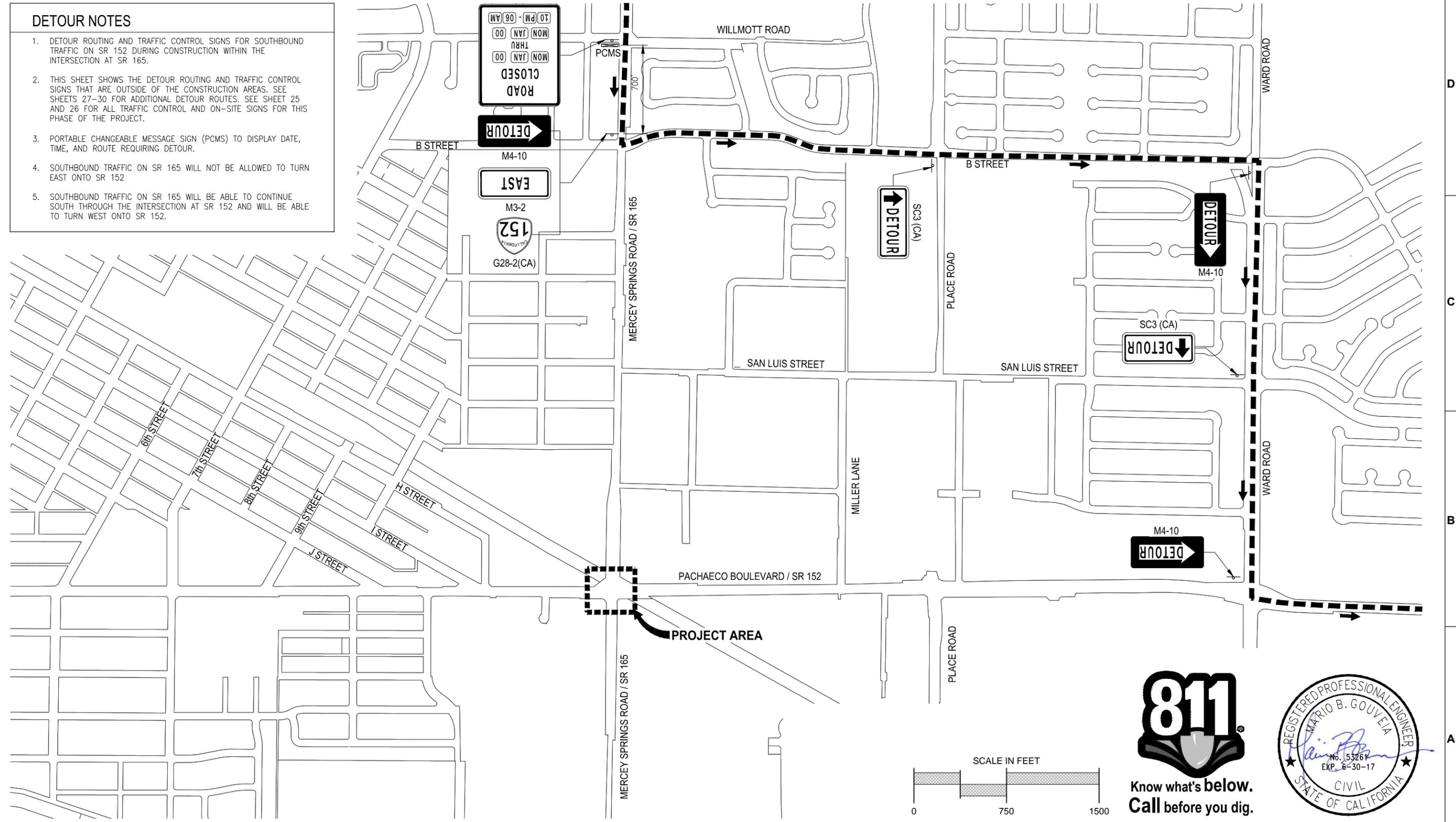
CITY OF LOS BANOS
MERCY SPRINGS SEWER LINE REPLACEMENT
DETOUR PLAN FOR
NORTHBOUND TRAFFIC ON SR-165

DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-130
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 30
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02

May 02 2016 - 2:45pm
 V:\C\16183002\cad\plm\et183002C-127-detr.dwg

DETOUR NOTES

1. DETOUR ROUTING AND TRAFFIC CONTROL SIGNS FOR SOUTHBOUND TRAFFIC ON SR 152 DURING CONSTRUCTION WITHIN THE INTERSECTION AT SR 165.
2. THIS SHEET SHOWS THE DETOUR ROUTING AND TRAFFIC CONTROL SIGNS THAT ARE OUTSIDE OF THE CONSTRUCTION AREAS. SEE SHEETS 27-30 FOR ADDITIONAL DETOUR ROUTES. SEE SHEET 25 AND 26 FOR ALL TRAFFIC CONTROL AND ON-SITE SIGNS FOR THIS PHASE OF THE PROJECT.
3. PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) TO DISPLAY DATE, TIME, AND ROUTE REQUIRING DETOUR.
4. SOUTHBOUND TRAFFIC ON SR 165 WILL NOT BE ALLOWED TO TURN EAST ONTO SR 152
5. SOUTHBOUND TRAFFIC ON SR 165 WILL BE ABLE TO CONTINUE SOUTH THROUGH THE INTERSECTION AT SR 152 AND WILL BE ABLE TO TURN WEST ONTO SR 152.



May 02 2016 - 2:45pm
 V:\C\16183002\cad\plm\et183002C-127-detr.dwg

REV	DATE	DESCRIPTION	INTL

OWNERSHIP OF DOCUMENTS
 THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

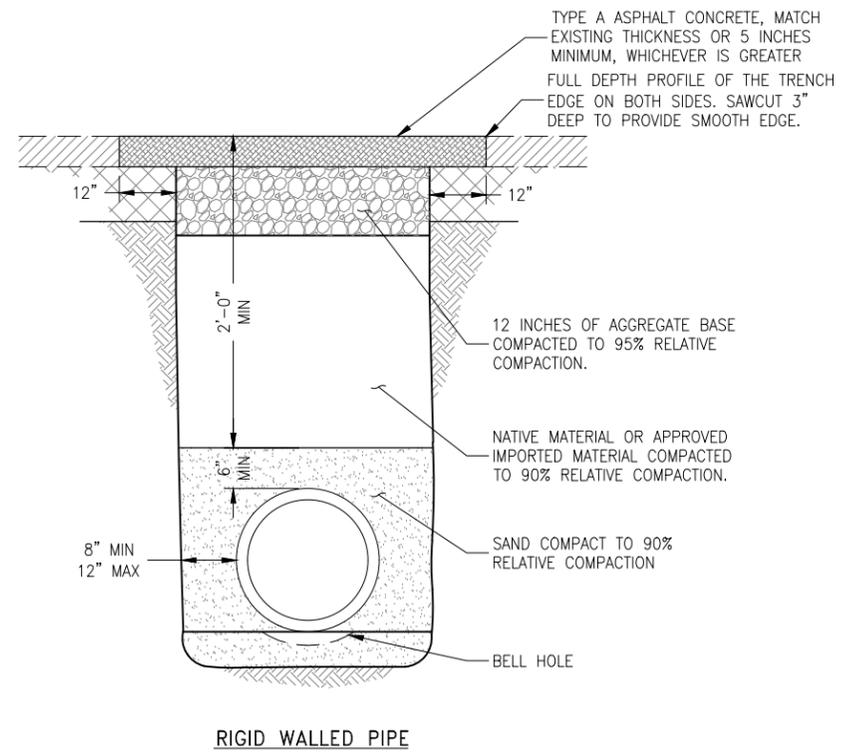
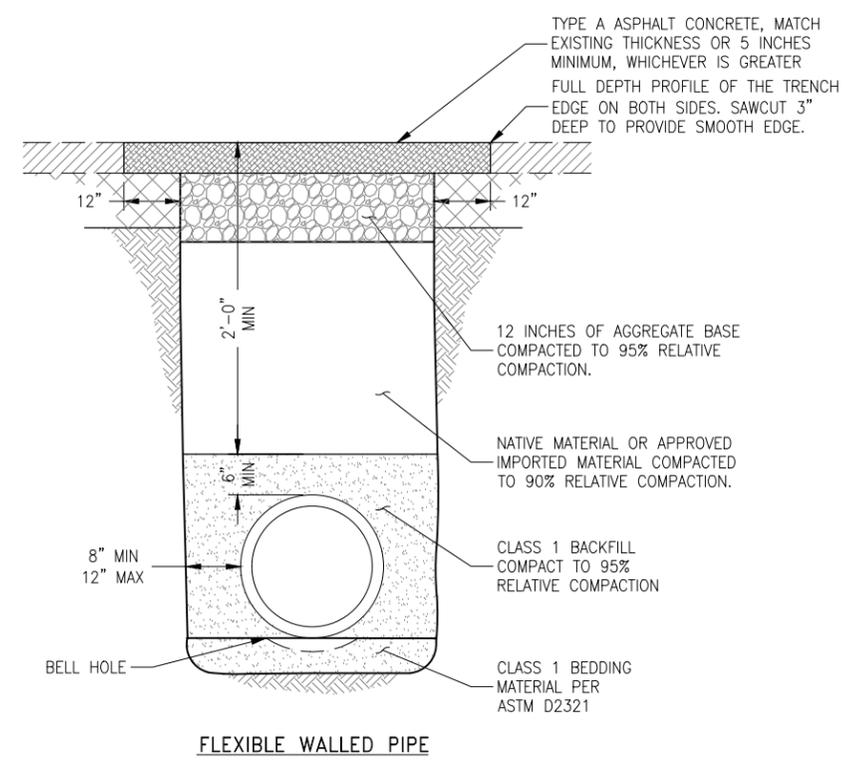
GOUVEIA ENGINEERING, INC.
 CONSULTING ENGINEERS
 456 Sixth Street • Gustine, California 95322
 Telephone (209) 854-3300 • Fax (209) 854-3600

CITY OF LOS BANOS
MERCHEY SPRINGS SEWER LINE REPLACEMENT
DETOUR PLAN FOR
SOUTHBOUND TRAFFIC ON SR-165

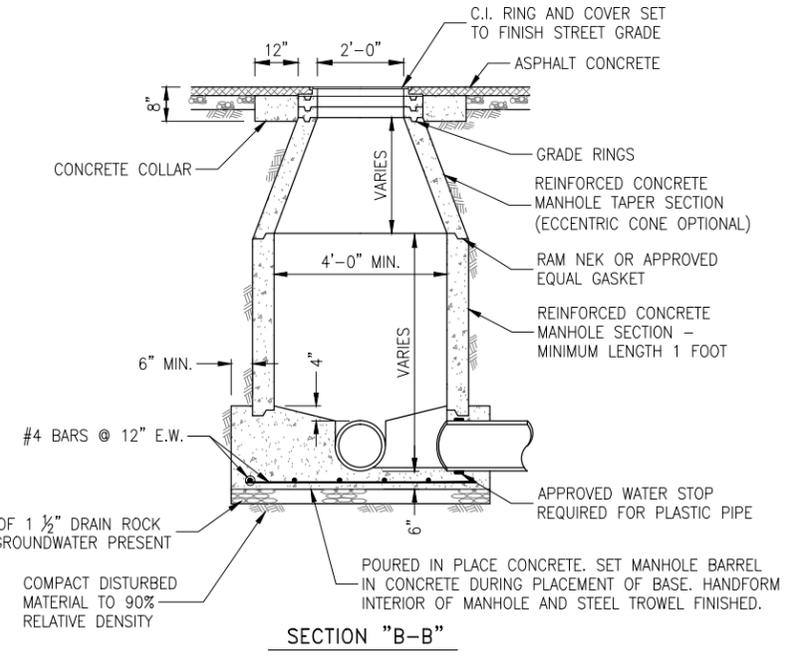
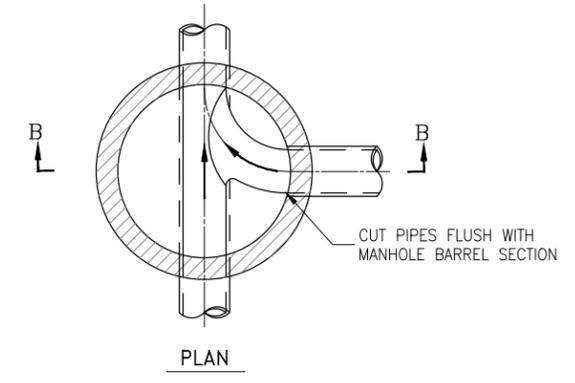
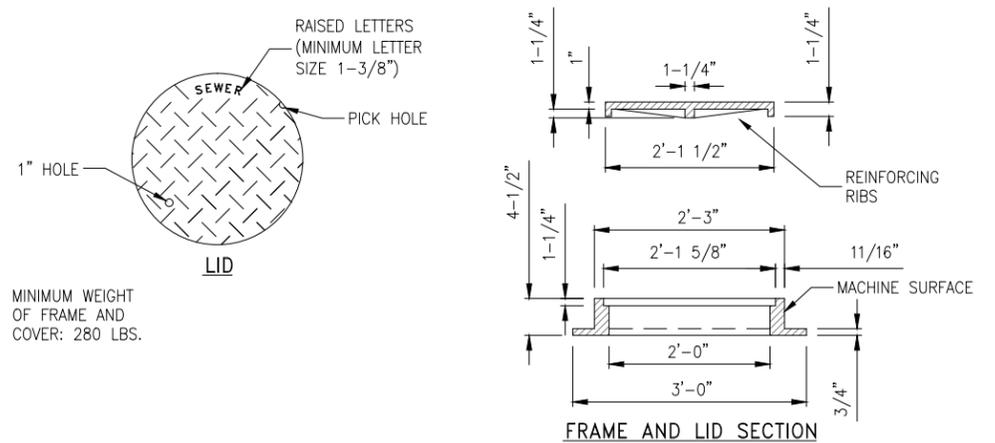
DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-131
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 31
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02

- ### NOTES
- TRENCHING, PIPE BEDDING, AND BACKFILL**
- TRENCH WALL SHOWN VERTICAL FOR CLARITY, EXCAVATE PER OSHA SAFETY REQUIREMENTS.
 - SAND SHALL CONFORM TO THE FOLLOWING GRADING REQUIREMENTS

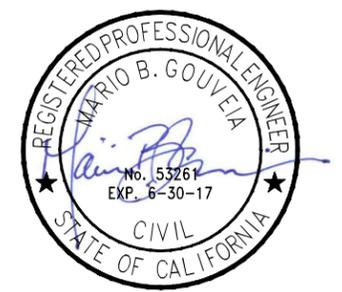
SIEVE SIZE	PERCENTAGE PASSING
#4	100
#16	0-70
#30	0-15
#200	0-5
 - FOR PVC PRESSURE PIPE PROVIDE 4" OF MANUFACTURED SAND BEDDING.
 - IF THE BOTTOM OF THE TRENCH IS SOFT OR UNSTABLE, IT SHALL BE OVER EXCAVATED A MINIMUM OF 1 FOOT BELOW GRADE AND BACKFILLED WITH APPROVED IMPORTED MATERIAL.
 - RELATIVE COMPACTION IS EXPRESSED AS A PERCENTAGE OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D1557.
 - FOR PIPE BEDDING AND BACKFILL PURPOSES, AWWA C900 PIPE SHALL BE CONSIDERED RIGID WALLED.
 - UNDER AWWA C900 PIPE, PROVIDE 4" OF MANUFACTURED SAND BEDDING MATERIAL.
 - TRENCHES NOT IN PAVED AREA SHALL BE RESTORED TO MATCH EXISTING SURFACE CONDITIONS.
 - EXISTING ROADWAY PAVEMENT SECTIONS HAVE NOT BEEN INVESTIGATED ALONG THE PIPE LINE ALIGNMENT(S).



2 TRENCH BACKFILL
NOT TO SCALE



1 SEWER MANHOLE
NOT TO SCALE



M:\02_2016 - 2:35pm V:\C\LE183002\cad\p\m\et183002C-131-udat.dwg

REV	DATE	DESCRIPTION	INTL

OWNERSHIP OF DOCUMENTS

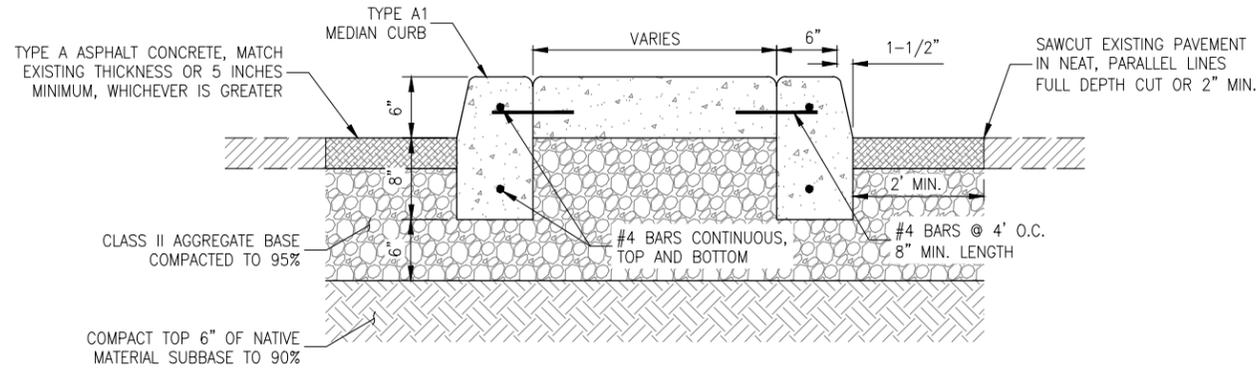
THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

GOUVEIA ENGINEERING, INC.
CONSULTING ENGINEERS

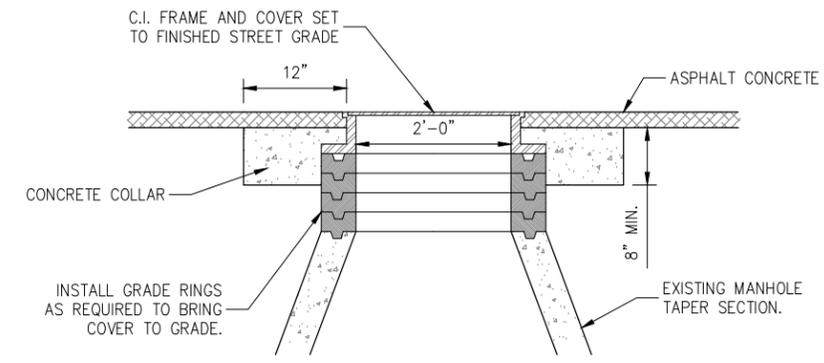
456 Sixth Street • Gustine, California 95322
Telephone (209) 854-3300 • Fax (209) 854-3600

CITY OF LOS BANOS
MERCY SPRINGS SEWER LINE REPLACEMENT
TRENCH BACKFILL AND
SEWER CONSTRUCTION DETAILS

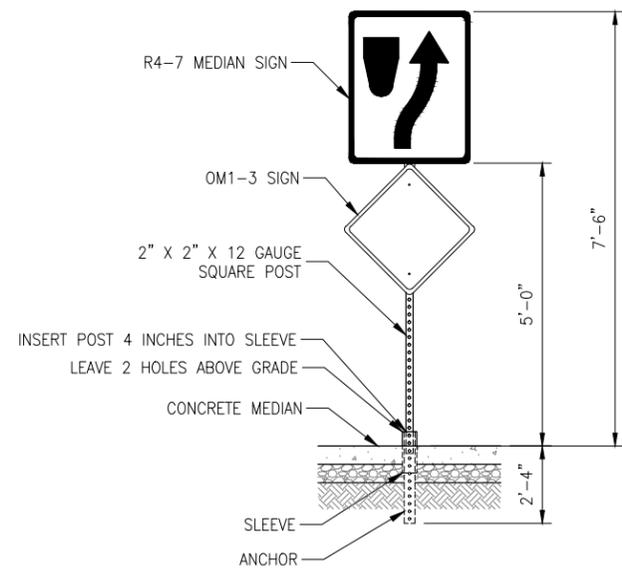
DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-132
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 32
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02



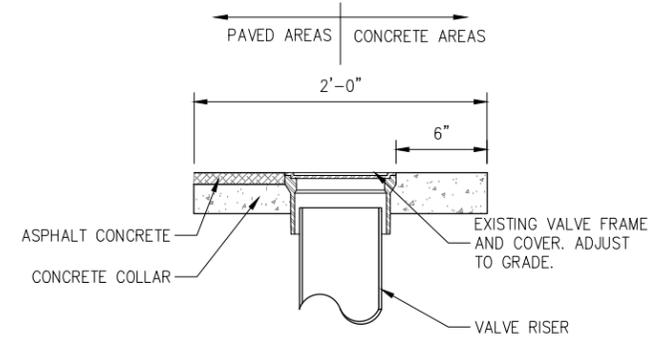
1 RAISED MEDIAN
NOT TO SCALE



MANHOLE ADJUSTMENT

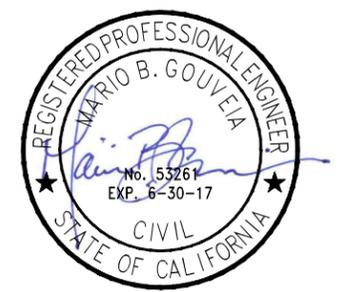


2 TRAFFIC SIGN
NOT TO SCALE



VALVE BOX ADJUSTMENT

3 UTILITY ADJUSTMENTS
NOT TO SCALE



Mar_02_2016 - 2:25pm
 V:\C\16183002\cad\p\m\et\16183002-C-131-udat.dwg

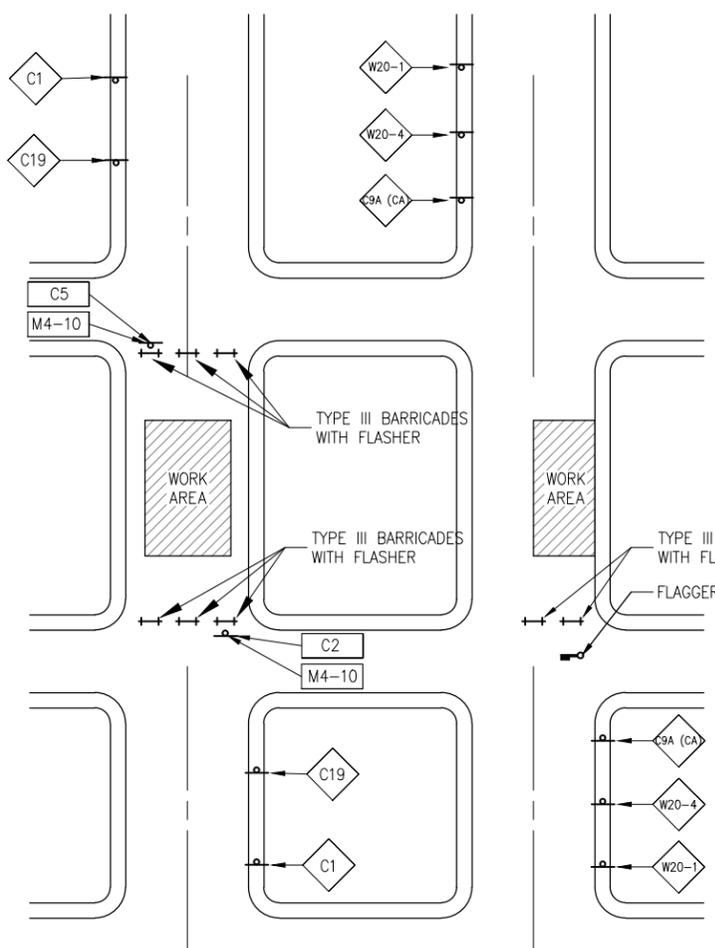
REV	DATE	DESCRIPTION	INTL

OWNERSHIP OF DOCUMENTS
 THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

GOUVEIA ENGINEERING, INC.
 CONSULTING ENGINEERS
 456 Sixth Street • Gustine, California 95322
 Telephone (209) 854-3300 • Fax (209) 854-3600

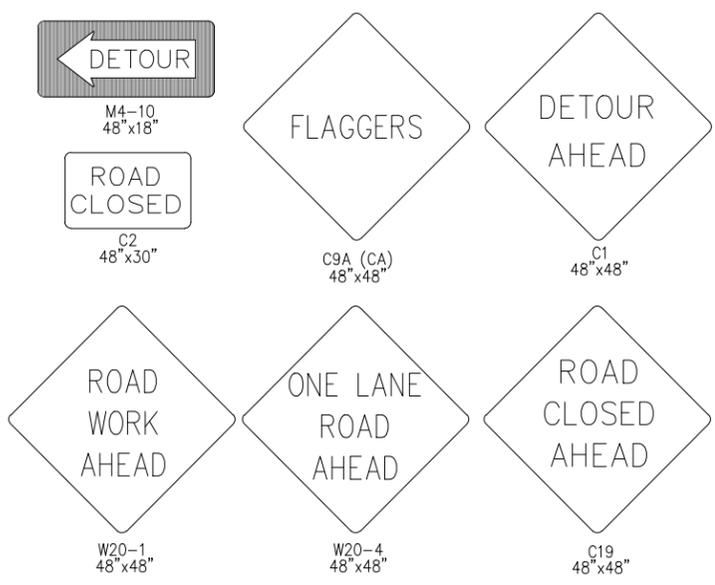
CITY OF LOS BANOS
MERCY SPRINGS SEWER LINE REPLACEMENT
MISCELLANEOUS CONSTRUCTION DETAILS

DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-133
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 33
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02

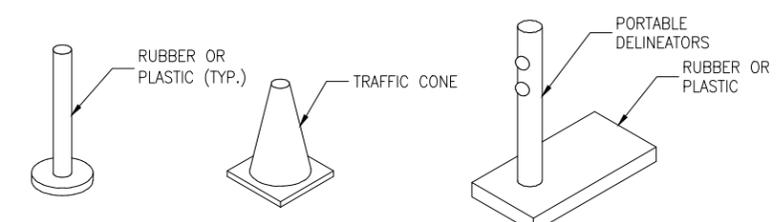


TYPICAL ROAD CLOSURE TYPICAL LANE CLOSURE

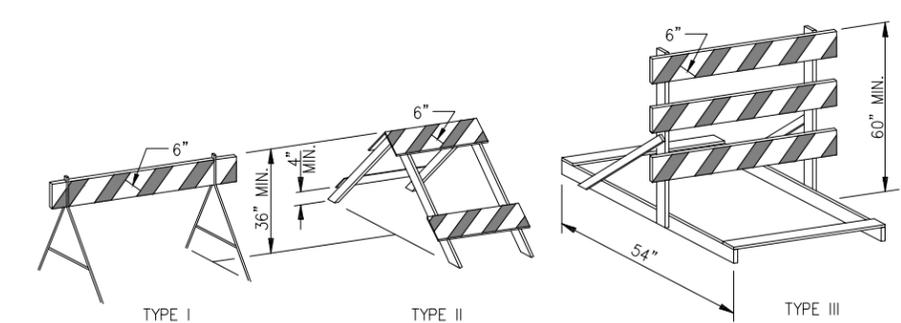
1 LOCAL ROAD CLOSURE DETAILS
NOT TO SCALE



3 TYPICAL CONSTRUCTION SIGNS
NOT TO SCALE



4 TRAFFIC DELINEATORS
NOT TO SCALE



BARRICADE AND PORTABLE FLASHER SUPPORT CHARACTERISTICS

TYPE	1	2	3	PORTABLE FLASHER SUPPORT
WIDTH OF RAIL	8" - 12"	8" - 12"	8" - 12"	TOP - 8" - 12" BOTTOM - 4" MIN.
LENGTH OF RAIL	2' MIN.	32" - 4'	3' MIN.	31" MAX.
WIDTH OF STRIPE	6"	6"	6"	4" OR 6"
HEIGHT	3' MIN.	3' MIN.	5' MIN.	30" MIN.
NUMBER OF REFLECTORIZED RAIL FACES	2	4	3 IF FACING TRAFFIC IN ONE DIRECTION. 6 IF FACING TRAFFIC IN TWO DIRECTIONS.	2 IF TOP RAIL IS 12" WIDE. 4 IF TOP RAIL IS LESS THAN 12" WIDE.

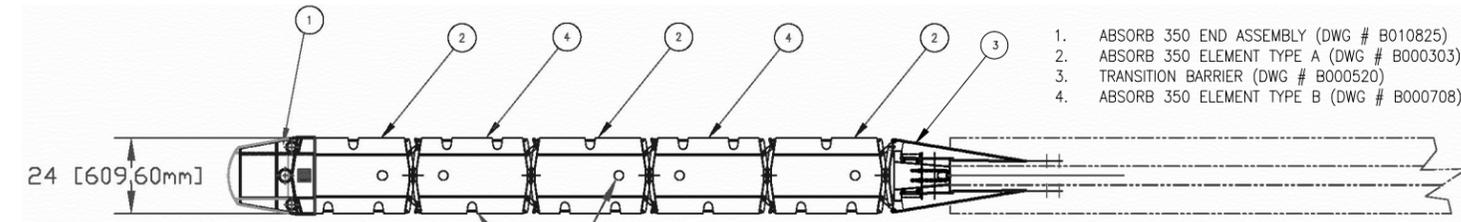
5 PORTABLE BARRICADES
NOT TO SCALE

NOTES

- PLACEMENT OF BARRICADES SHALL NOT PRECLUDE ENTRANCE OF EMERGENCY VEHICLES.
- ADDITIONAL DETOUR SIGNS MAY BE REQUIRED BY THE CITY ENGINEER.
- REFLECTORS AS REQUIRED BY THE CITY ENGINEER OR PUBLIC WORKS DIRECTOR.

OR SIGN PER
 TYPE III BARRICADE PER

REFERENCE DETAIL: 5/31, 4/31



2 CRASH CUSHION DETAIL
NOT TO SCALE

- ABSORB 350 END ASSEMBLY (DWG # B010825)
- ABSORB 350 ELEMENT TYPE A (DWG # B000303)
- TRANSITION BARRIER (DWG # B000520)
- ABSORB 350 ELEMENT TYPE B (DWG # B000708)

NOTE:
HOLES AND GROOVES ON ITEMS 4, AND 2 ARE TO BE LOCATED AS SHOWN ON THE DRAWING

GENERAL NOTES:
REFER TO THE ABSORB 350 CRASH BARRIER DRAWINGS BY BARRIER SYSTEMS, INC. FOR ADDITIONAL DETAILS ON THE CONSTRUCTION AND USE OF THIS CRASH CUSHION.



M:\02_2016 - 235pm V:\C\16183002\cad\p\m\et183002C-131-udat.dwg

REV	DATE	DESCRIPTION	INTL

OWNERSHIP OF DOCUMENTS
THIS DOCUMENT, AND THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS THE PROPERTY OF GOUVEIA ENGINEERING, INC., AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE, IN WHOLE OR IN PART, IS NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION BY GOUVEIA ENGINEERING, INC.

GOUVEIA ENGINEERING, INC.
CONSULTING ENGINEERS
456 Sixth Street • Gustine, California 95322
Telephone (209) 854-3300 • Fax (209) 854-3600

CITY OF LOS BANOS
MERCY SPRINGS SEWER LINE REPLACEMENT
TRAFFIC CONTROL DETAILS

DESIGNED BY NWF, DGR	DATE 03/14/2016	DRAWING C-134
DRAWN BY NWF, AMT, DGR	DATE 04/28/2016	SHEET 34
CHECKED BY M. GOUVEIA	DATE 04/28/2016	OF 34 SHEETS
APPROVED M. GOUVEIA	DATE 04/28/2016	PROJECT NUMBER 830.02