COUNTY OF SAN JOAQUIN

DEPARTMENT OF PUBLIC WORKS
P.O. BOX 1810-1810 E. HAZELTON AVENUE
STOCKTON, CALIFORNIA 95201
(209) 468-3000
FAX # (209) 468-9324

Permit No: **PS-1201149**
Date Issued: 06/04/2014
Exp. Date: 08/01/2014
Project No: PWP760170
Quad: SE

ENCROACHMENT PERMIT

To: CITY OF STOCKTON
2500 NAVY DRIVE
STOCKTON, CA 95206

Encroachment Type:

Trench			

Location:
ARCH RD. BETWEEN LOGISTICS DR. AND AUSTIN RD.

In compliance with your request of **05/21/2012** , permission is hereby granted to do work in County right-of-way as shown on attached application and subject to all the terms, conditions and restrictions written below or printed as general or special provisions on any part of this form. See reverse side and attached sheet, if any.

Trench excavations for service connections will not be permitted within ten feet (10') of pavement centerline unless otherwise approved by the Director. Surface of trench patches shall match in kind and be smooth and even with that of abutting surface. Special attention shall be given to depth of utilities through roadside area in anticipation of future drainage facilities, road profile and/or frontage development. All underground utility facilities are to be established and accurately dimensioned on sketches from surveyed centerline of road right of way, or from right of way (border) lines.

Permittee shall call the Department of Public Works, Field Engineering Division (Permit Inspections) at (209)953-7421 at least forty-eight hours prior to beginning any work within the County right of way. All work performed under this permit shall conform to the rules and regulations pertaining to safety established by the California Division of Industrial Safety and Cal-OSHA.

The jobsite shall be kept in a safe condition at all times by the daily removal of any excess dirt or debris which might be a hazard to either pedestrian or automobile traffic. All necessary traffic convenience and warning devices and personnel shall be provided, placed and maintained by and at the sole expense of the Permittee in accordance with the latest edition of the CALTRANS Manual of Traffic Control.

After completion of the work permitted herein, all debris, lumber, barricades, or any excess material shall be removed and the jobsite left in a neat workmanlike manner. Immediately following completion of construction permitted herein, Permittee shall fill out and mail notice of completion (see attached post card) provided by Grantor.

Special Comments:
Traffic Control Per MUTCD*****See attached "Special Conditions"*****

FORMS: SS/WW,[redacted]

Est. Permit Fee: $14,500.00

for THOMAS M. GAU, Director
Department of Public Works

By: _____
Permit Section

WHITE	-Permittee
GOLDENROD	-PWD Central File
YELLOW	-Field Inspection
PINK	-Permit Section

ENCROACHMENT PERMIT GENERAL PROVISIONS

13-1

1. This permit is issued under and subject to all laws and ordinances of agencies governing the encroachment herein permitted. See the following references:
   STREETS AND HIGHWAYS CODE
   1. Division 1, Chapter 3
   2. Division 2, Chapter 2, Section 942
   3. Division 2, Chapter 4, Section 1126
   4. Division 2, Chapter 5.5 and Chapter 6

   SAN JOAQUIN COUNTY ORDINANCES NUMBERED: 324, 441, 648, 662, 672, 695, 700, 860, 892, 3359, and 3675.

2. It is understood and agreed by the Permittee that the performance of any work under this permit shall constitute an acceptance of all the provisions contained herein and failure on the Permittee's part to comply with any provision will be cause for revocation of this permit. Except as otherwise provided for public agencies and franchise holders, this permit is revocable on five days notice.

3. All work shall be done subject to the supervision of and the satisfaction of the grantor. The Permittee shall at all times during the progress of the work keep the County Highway in as neat and clean condition as is possible and upon completion of the work authorized herein, shall leave the County Highway in a thoroughly neat, clean and usable condition.

4. The Permittee also agrees by the acceptance of this permit to properly maintain any encroachment structure placed by the Permittee on any part of the County Highway and to immediately repair any damage to any portion of the highway, which occurs as a result of the maintenance of the said encroachment structure, until such time as the Permittee may be relieved of the responsibility for such maintenance by the County of San Joaquin.

5. The Permittee also agrees by the acceptance of this permit to make, at its own expense, such repairs as may be deemed necessary by the County Department of Public Works.

6. It is further agreed by the Permittee that whenever construction, reconstruction or maintenance work upon the highway is necessary, the installation provided for herein shall, upon request of the County Department of Public Works, be immediately moved or removed by and at the sole expense of the Permittee.

7. No material used for fill or backfill in the construction of the encroachment shall be borrowed or taken from within the County right of way.

8. All work shall be planned and carried out with as little inconvenience as possible to the traveling public. No material shall be stacked within eight feet (8') of the edge of the pavement or traveled way unless otherwise provided herein. Adequate provision shall be made for the protection of the traveling public. Traffic control standards shall be utilized including barricades; approved signs and lights; and flagmen, as required by the particular work in progress.

9. The Permittee, by the acceptance of this permit, shall assume full responsibility for all liability for personal injury or damage to property which may arise out of the work herein permitted or which may arise out of the failure of the part of the Permittee to properly perform the work provided under this permit. In the event any claim of such liability is made against the County of San Joaquin or any department, official or employee thereof, the Permittee shall defend, indemnify, and hold each of them harmless for such claim.

10. All backfill material is to be moistened as necessary and thoroughly compacted with mechanical means. If required by the County Director of Public Works, such backfill shall consist of gravel or crushed rock. The Permittee shall maintain the surface over structures placed hereunder as may be necessary to insure the return of the roadway to a completely stable condition and until relieved of such responsibility by the County Department of Public Works. Wherever a gravel, crushed rock or asphalt surface is removed or damaged in the course of work related to the permitted encroachment, such material shall either be separately stored and replaced in the roadway as nearly as possible in its original state or shall be replaced in kind, and the roadway shall be left in at least as good a condition as it was before the commencement of operations of placing the encroachment structure.

11. Whenever it becomes necessary to secure permission from abutting property owners for the proposed work, such authority must be secured by the Permittee prior to starting work.

12. The current and future safety and convenience of the traveling public shall be given every consideration in the location and methods of construction utilized.

13. The Permittee is responsible for the preservation of survey monuments within the work herein permitted. If any are disturbed, the Permittee is required to tie out each location and re-establish them after completion of work, using a licensed land surveyor. A corner record must be filed in accordance with state law for any re-set monuments.

14. Prior to any excavation, the Permittee shall notify USA North (Underground Service Alert of Northern California and Nevada) at 811 or 800-227-2600 forty-eight (48) hours in advance.

SPECIAL CONDITIONS FOR ARCH ROAD SEWER ENCROACHMENT PERMIT

1. Maintain traffic controls for all roads. Traffic control shall be per Caltrans' M.U.T.C.D. standards and in accordance with the attached traffic control plan.

2. Driveways disturbed by the contractor shall be replaced with in-kind or better materials.

3. Residents and businesses shall be notified in writing, as approved by the County, 48 hours in advance of any impacts to their access.

4. Any areas where parking is to be restricted shall have signs noticing the time period placed at least 48 hours in advance of the work.

5. No trench cutting of County roads shall occur between November 1 and March 31.

6. Final paving for trench repair or road resurfacing shall be per Caltrans' specifications and shall not occur between November 1 and March 31.

7. All pavement markings destroyed or obliterated must be replaced in kind by the permittee. Typical pavement markings include, but not limited to, lane lines, centerlines, stop and stop ahead legends, limit lines, raised pavement markers and miscellaneous delineators.

8. The permittee is responsible for restoring any Survey Monuments disturbed by this project and filing corner records for restored monuments by a Licensed Land Surveyor or properly qualified Civil Engineer.

9. All pipe and pipeline related facilities, including but not limited to, valves, utility boxes and vaults, frames and covers shall be maintained by the City of Stockton. The City of Stockton shall be responsible for any and all costs associated with the removal, relocation and/or adjustment of these facilities as determined by the County at the City of Stockton's expense. (Streets and Highways Code 1463)

10. All future maintenance of the pipeline and related facilities within the County right-of-way will require a San Joaquin County Encroachment Permit.

11. The length of open, unbackfilled trenches shall be limited to a total maximum length of 250 linear feet during working hours.

12. Trenches shall be maintained in a smooth and even condition to the satisfaction of the County throughout the project limits at all times.

13. If plating is to be used, a trench shoring and plating plan suitable for traffic loadings shall be prepared by a registered civil engineer and submitted for prior approval by the County.

14. Temporary pavement shall be provided for all trench areas within three days of pavement removal or by Friday of each week, whichever is more restrictive.

15. Final trench paving shall be placed when the length of temporarily surfaced trench exceeds 1,500 linear feet or by segment of road as determined by the County. Final trench paving will also be required to be placed when interruptions or delays of the work exceed two (2) weeks.

16. Roadway areas subject to pavement cuts shall receive a 0.10-foot asphalt concrete overlay from the centerline (or lane line) to the edge of the travelled way. If the pavement is disturbed on both sides of the centerline (or adjacent lane), then the entire roadway (or affected lanes) shall be resurfaced. All pavement conforms shall be ground to provide a flush surface. Contractor shall grind and overlay within 10 working days of permanent trench paving. Shoulder areas shall be brought up to the finish grade as directed by the County.

17. No paving joints are allowed within paved shoulders. The contractor shall pave all the way to outer edge of paved shoulder.

18. Contractor shall establish existing roadway and drainage grades within the construction area. Any repair to roadways and adjacent areas shall match existing grades. Any proposed grade changes shall receive prior approval from County.

19. Shoulder backing shall be Class II Aggregate Base from edge of pavement a minimum of 4 inches thick by 4 feet wide.

20. School buses shall be passed through the work zone with minimal delays.

21. County roads shall be kept clean from mud and debris at all times along the access points and work zone areas during entire project. All traffic signage and roadway markings within the construction zone shall be maintained in a clearly visible condition during construction activities.

22. In addition to standard dust control measures, streets shall be maintained in a clean condition, free of dirt, mud and debris during construction activities. The contractor shall provide daily, or as needed, street sweeping using a modern mechanical or vacuum-assisted street sweeper.

23. The contractor shall not conduct construction operations in rain or heavy fog conditions.

<PS-1201149>

APPLICATION FOR ENCROACHMENT PERMIT

PLEASE PRINT:

Date 06-03-2014

To: San Joaquin County
Department of Public Works

C.O.S. Public Works Dept.: Attn: Rosa Alvarez
(Applicant Name)

22 E. Weber Avenue, Room 301
(Mailing Address)

Stockton, CA 95202
(City, State, Zip Code)

209-937-8134
(Area Code - Telephone Number)

OFFICE USE ONLY

JOB #	760170	REF #	
APN		CR #	
EXP. DATE	8/1/14		
VALID	6/9/14 TO 8/1/14		DRIVEWAYS:
STREET	ARCH RD.		*
AREA	STOCKTON QUAD SE		*
TYPE	TRENCHING		*
FORMS	SS/NW		
NOTES	"SEE SPECIAL CONDITIONS"		

Sketch (Detailed plans may be submitted)

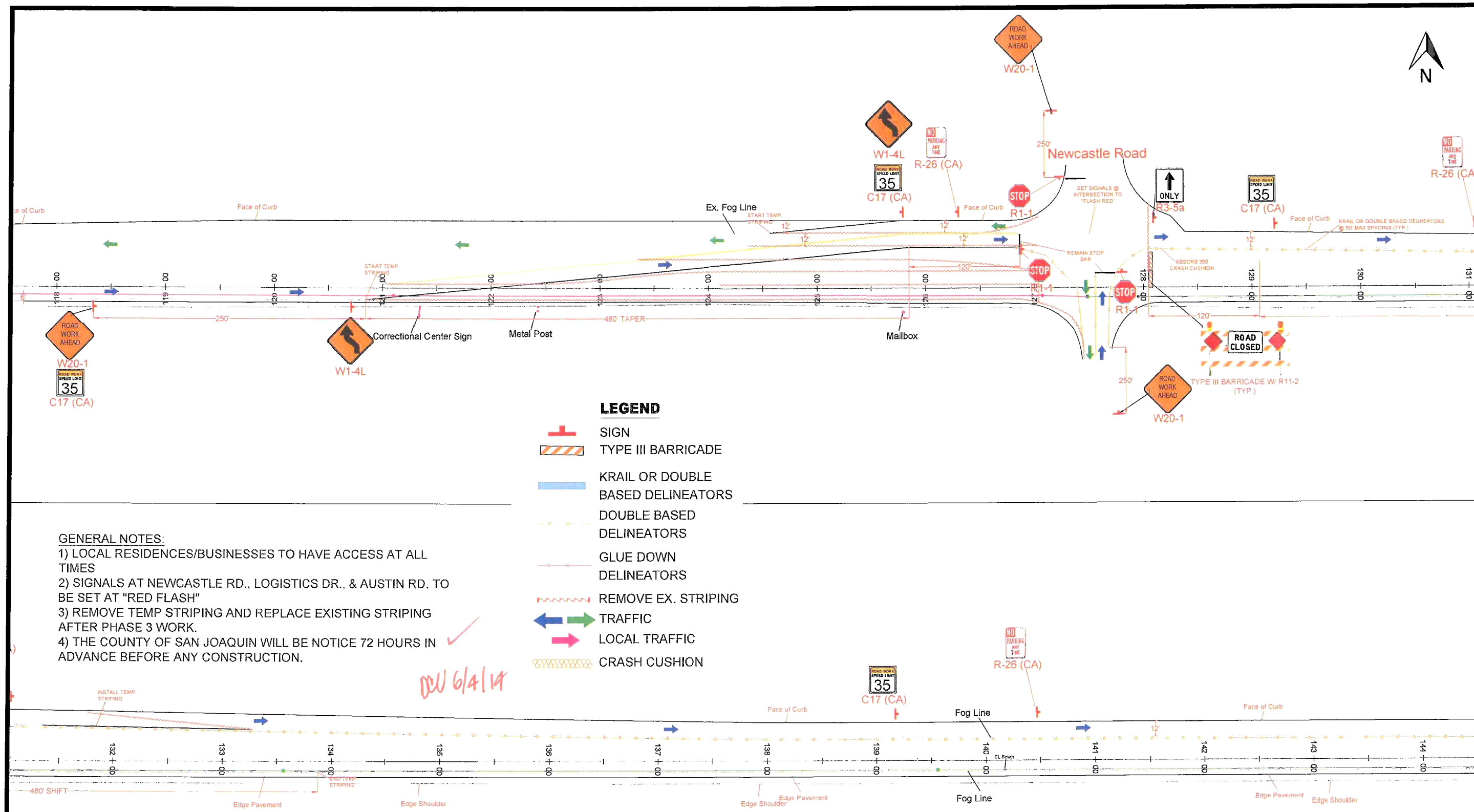
The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the south side of Arch Road approximately 2,700 feet/mile 27" of sewer line, _____, by performing the following work (description of work): Install 27" sewer trunk line along the south side of Arch Road between Logistics Drive and Austin Road, includes trenching, and pavement restoration.

Work will commence on or about June 9, 2014 for approximately 8 weeks ~~days.~~

I, the undersigned, certify that I am the owner of the respective property, or am qualified to represent the owner and agree to do the work described above in accordance with the rules and regulations of San Joaquin County and subject to inspection and approval.

Rosa Alvarez, Associate Engineer — 06/03/14

Signature of Applicant - Title — Date



LEGEND

- SIGN
- TYPE III BARRICADE
- KRAIL OR DOUBLE BASED DELINEATORS
- DOUBLE BASED DELINEATORS
- GLUE DOWN DELINEATORS
- REMOVE EX. STRIPING
- TRAFFIC
- LOCAL TRAFFIC
- CRASH CUSHION

GENERAL NOTES:

1) LOCAL RESIDENCES/BUSINESSES TO HAVE ACCESS AT ALL TIMES
2) SIGNALS AT NEWCASTLE RD., LOGISTICS DR., & AUSTIN RD. TO BE SET AT "RED FLASH"
3) REMOVE TEMP STRIPING AND REPLACE EXISTING STRIPING AFTER PHASE 3 WORK.
4) THE COUNTY OF SAN JOAQUIN WILL BE NOTICE 72 HOURS IN ADVANCE BEFORE ANY CONSTRUCTION.

DCU 6/4/14

APPROVED BY: _____ DATE

DESIGN SPEED: PERMANENT= 45 MPH
REDUCED= 35 MPH

EQUALS 1IN.

PHASE 3

TRAFFIC CONTROL PLAN FOR

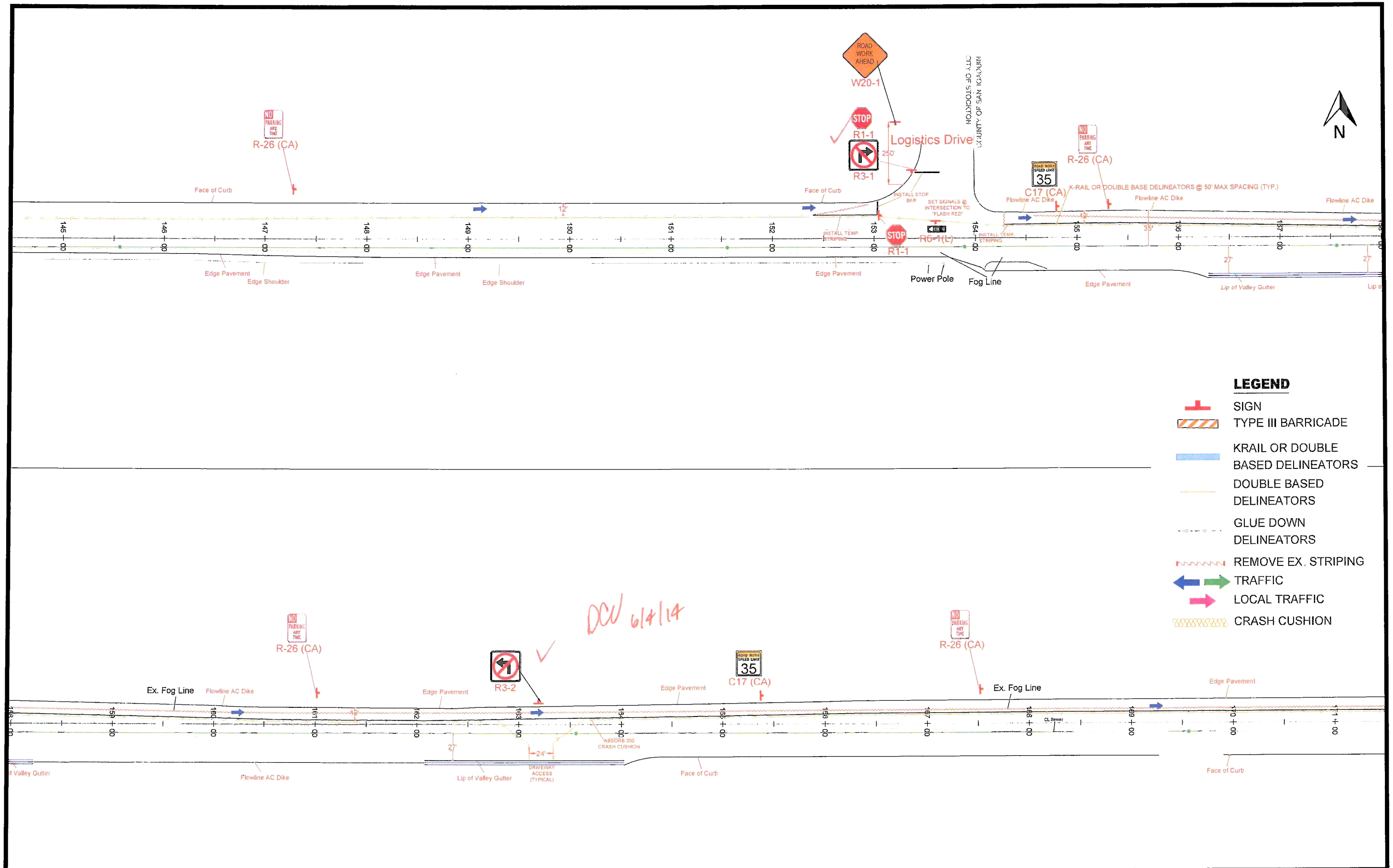
ARCH RD. SEWER

STOCKTON, CA

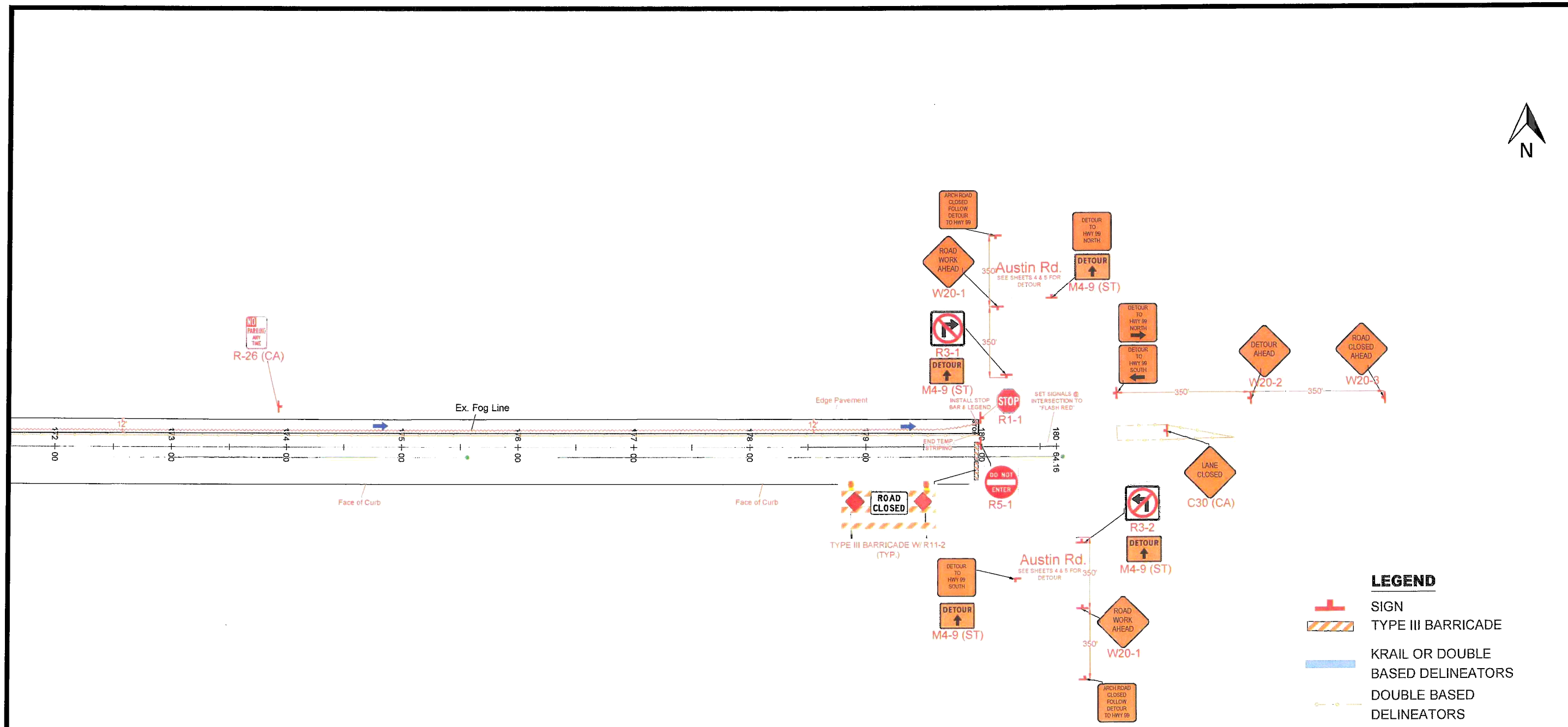
KNIFE RIVER CONSTRUCTION
AN MDU RESOURCES COMPANY
CONTRACTOR'S LICENSE NUMBER 234593
655 W. CLAY STREET
STOCKTON, CA 95206
P: 209.948.0302
F: 209.948.6652

SCALE 1:40
JOB NUMBER
PREPARED BY CP
DATE 8/4/2014

SHEET 1 OF 5



APPROVED BY:	DESIGN SPEED: PERMANENT= 45 MPH REDUCED= 35 MPH		PHASE 3	TRAFFIC CONTROL PLAN FOR	KNIFE RIVER CONSTRUCTION	SCALE 1:40	SHEET
DATE	EQUALS 1IN.			ARCH RD. SEWER	AN MDU RESOURCES COMPANY CONTRACTOR'S LICENSE NUMBER 334553 855 W. CLAY STREET P 209.948.0302 STOCKTON, CA 95206 F 209.948.5652	JOB NUMBER PREPARED BY CP DATE 6/4/2014	2 OF 5
				STOCKTON, CA			



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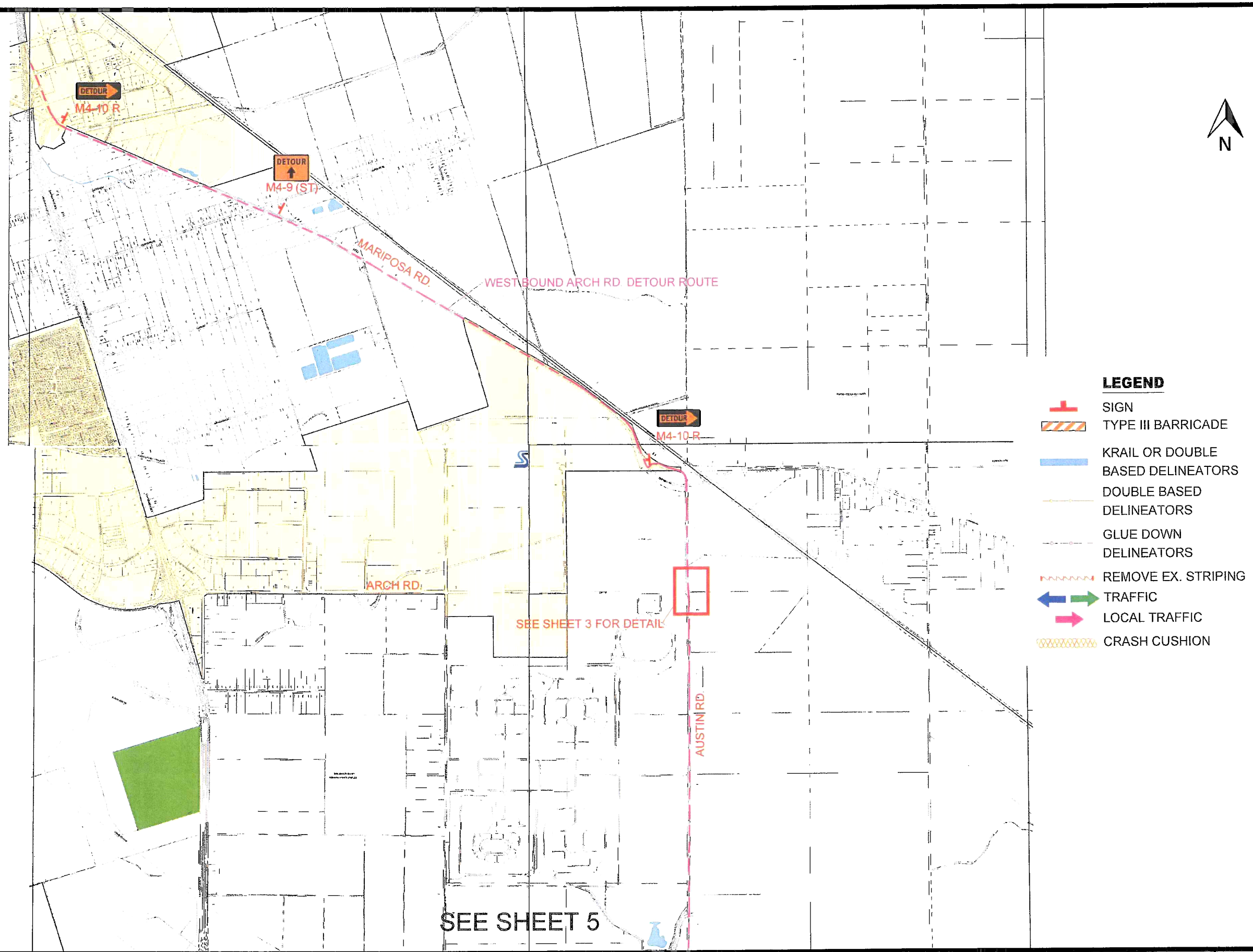
- REMOVE EX. STRIPING
- TRAFFIC
- LOCAL TRAFFIC
- CRASH CUSHION

APPROVED BY. _____ DATE	DESIGN SPEED: PERMANENT= 45 MPH REDUCED= 35 MPH EQUALS 1IN.		PHASE 3	TRAFFIC CONTROL PLAN FOR **ARCH RD. SEWER** STOCKTON, CA	KNIFE RIVER CONSTRUCTION AN MDU RESOURCES COMPANY CONTRACTOR'S LICENSE NUMBER 324653 655 W. CLAY STREET STOCKTON, CA 95208 P: 209.948.0302 F: 209.948.6052	SCALE 1:40 JOB NUMBER PREPARED BY CP DATE 8/4/2014	SHEET 3 OF 5



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- DOUBLE BASED DELINEATORS
- GLUE DOWN DELINEATORS
- REMOVE EX. STRIPING
- TRAFFIC
- LOCAL TRAFFIC
- CRASH CUSHION

APPROVED BY: _____ DATE

DESIGN SPEED: PERMANENT= 45 MPH
REDUCED= 35 MPH

EQUALS 1IN.

PHASE 3 DETOUR

TRAFFIC CONTROL PLAN FOR

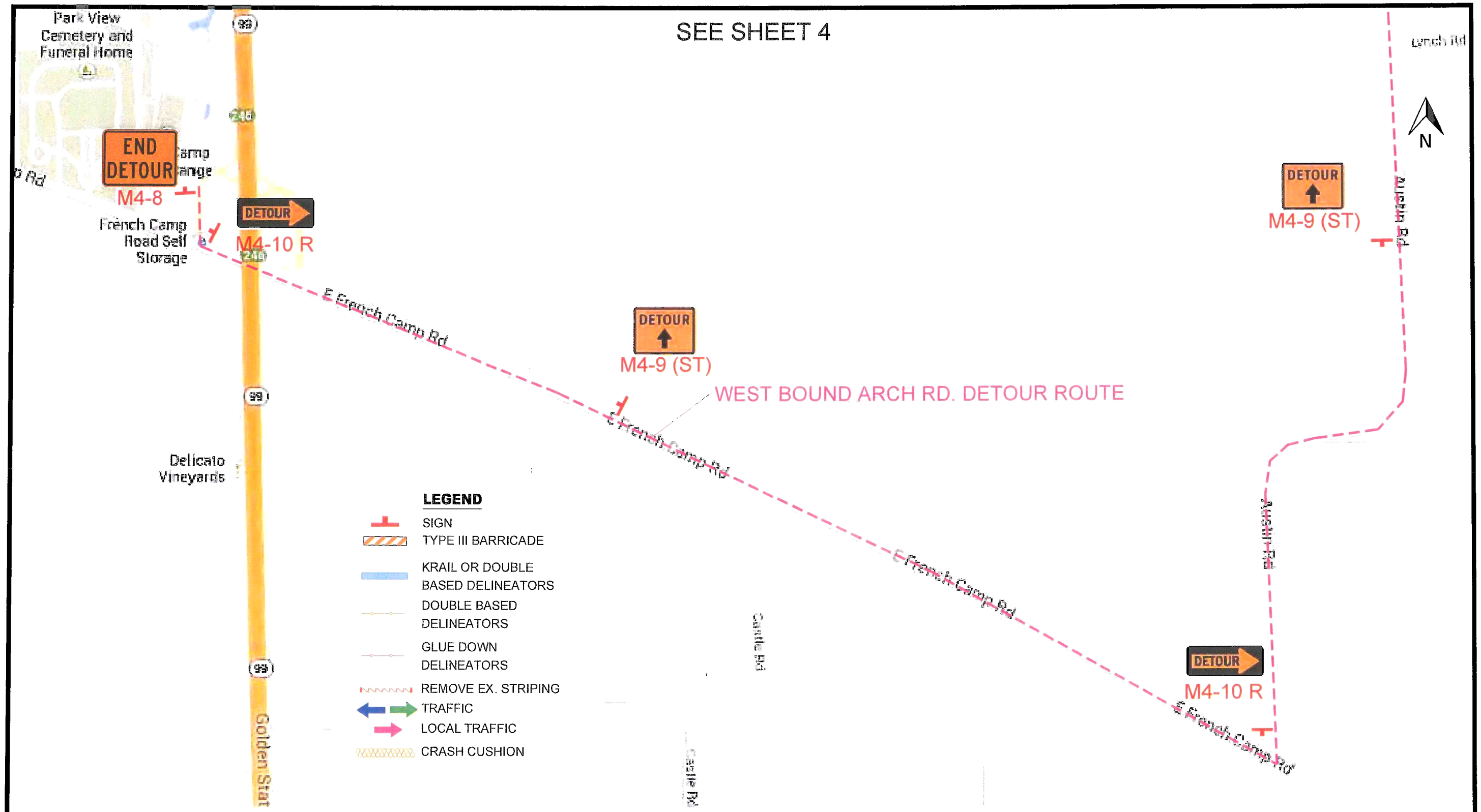
ARCH RD. SEWER

STOCKTON, CA

KNIFE RIVER CONSTRUCTION
AN MDU RESOURCES COMPANY
CONTRACTOR'S LICENSE NUMBER 326823
655 W. CLAY STREET
STOCKTON, CA 95206
P 209.948.0302
F 209.948.6852

SCALE N/A
JOB NUMBER
PREPARED BY CP
DATE 6/4/2014

SHEET 4 OF 5



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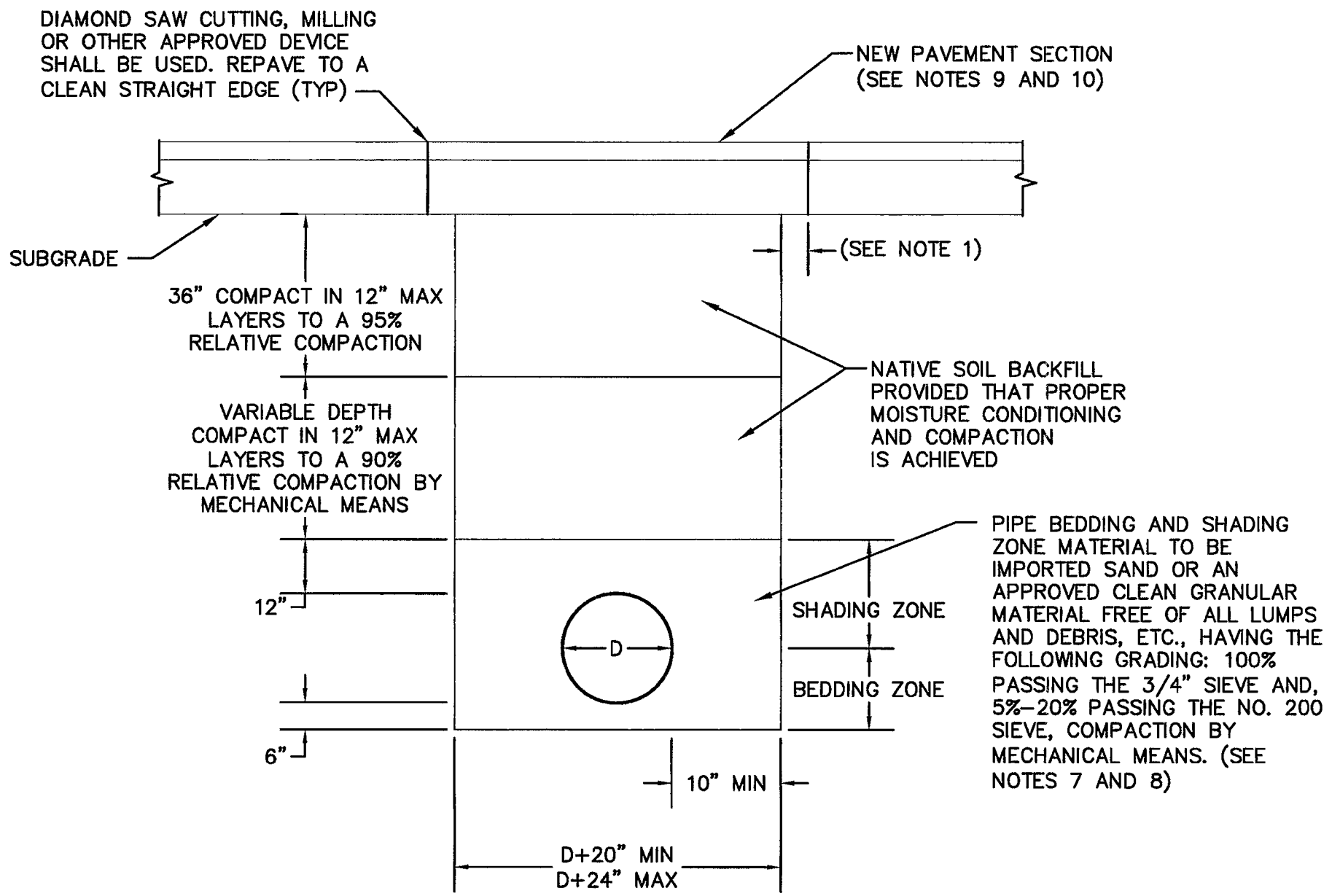
APPROVED BY: _____ DATE	DESIGN SPEED: PERMANENT= 45 MPH REDUCED= 35 MPH EQUALS 1IN.		PHASE 3 DETOUR	TRAFFIC CONTROL PLAN FOR **ARCH RD. SEWER** STOCKTON, CA	KNIFE RIVER CONSTRUCTION AN MDU RESOURCES COMPANY CONTRACTOR'S LICENSE NUMBER 376613 555 W. CLAY STREET STOCKTON, CA 95206 P 209.948.0302 F 209.948.6592	SCALE N/A JOB NUMBER PREPARED BY CP DATE 8/4/2014	SHEET 5 OF 5



FLEXIBLE CONDUIT

NOTES:

1. WHEN TRENCH AND EXCAVATION IS IN EXISTING PAVED STREETS, REPLACE PAVEMENT 12" MIN. ON EACH SIDE OF TRENCH.
2. ALL VERTICAL EDGES OF EXISTING ASPHALT CONCRETE SHALL BE TACK COATED.
3. DEVIATION FROM TYPICAL TRENCH SECTION MAY BE ALLOWED WHEN APPROVED BY THE PROJECT GEOTECHNICAL ENGINEER OF RECORD.
4. TRENCH – WHERE THE TRENCH PARALLELS THE EXISTING CURB AND GUTTER, THE EDGE OF THE TRENCH SHALL BE A MIN. OF 1'–0" FROM LIP OF THE EXISTING GUTTER. THE PAVEMENT SHALL BE REMOVED AND REPLACED TO THE LIP OF THE GUTTER.
5. RELATIVE COMPACTION OF MATERIALS SHALL BE TESTED IN ACCORDANCE WITH THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION TESTING MANUALS, TEST METHOD NO. 216 AND 231.
6. JETTING OR PONDING WILL NOT BE PERMITTED WITHIN THE STREET RIGHT–OF–WAY.
7. PIPE BEDDING MATERIAL SHALL BE HAND PLACED BENEATH THE HAUNCHES OF THE PIPE AND THOROUGHLY TAMPED TO ENSURE MATERIAL IS FIRM AND COMPACTED.
8. REMAINING PIPE BEDDING AND SHADING ZONE MATERIAL SHALL BE PLACED IN HORIZONTAL LAYERS NOT EXCEEDING 8 INCHES IN LOOSE THICKNESS AND DENSIFIED USING A VIBRATORY PLATE COMPACTOR.
9. BETWEEN STATION 79+12 AND STATION 154+09.18, THE NEW PAVEMENT SECTION WILL CONSIST OF 18.5–INCH DEEP LIFT ASPHALTIC CONCRETE. RECOMMENDED PAVEMENT SECTION IS BASED ON A TRAFFIC INDEX (TI) OF 9.5 AND A SUBGRADE R–VALUE OF 10.
10. BETWEEN STATION 154+09.18 AND STATION 180+69.87, THE NEW PAVEMENT SECTION MAY CONSIST OF ONE OF THE FOLLOWING:

Traffic Index	Asphalt-Concrete (inch)	Class 2 Aggregate Base (inch)	Class 2 Aggregate Subbase (inch)
11.0	9.0	22.0	-
	9.0	9.0	14.0

RECOMMENDED PAVEMENT SECTION IS BASED ON A TRAFFIC INDEX (TI) OF 11.0 AND A SUBGRADE R–VALUE OF 7. TI AND R–VALUE USED WERE PROVIDED BY SAN JOAQUIN COUNTY PUBLIC WORKS.

TYPICAL TRENCH SECTION
ARCH ROAD SANITARY SEWER TRUNK LINE
STOCKTON, CALIFORNIA

Job No. 6266
Date 26 NOV 2012
Scale AS SHOWN
Drawn KGM
Chk'd APM

CONDOR EARTH TECHNOLOGIES, INC.
188 Frank West Circle, Ste I
Stockton, CA 95206
(209) 234–0518
f(209) 234–0538
www.condorearth.com
stockton@condorearth.com
CONDOR

FIGURE 5

File No. 6266_F5

P:\6000_pr\6266 CCS MUD – Arch Rd Sanitary Sewer Trunk Line\DWG\6266_F5.dwg 11-28-12 02:37:05 PM kmckinley

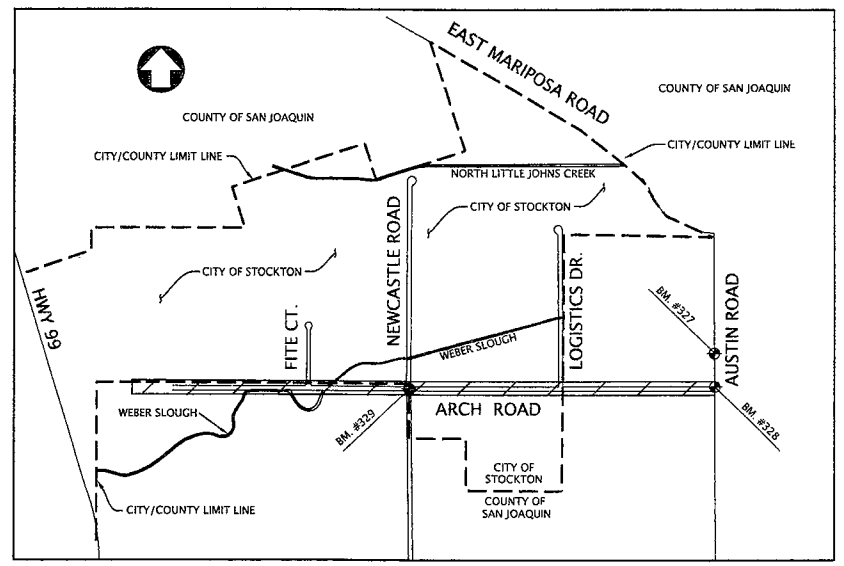
IMPROVEMENT PLANS

ARCH ROAD SANITARY SEWER TRUNK LINE

STOCKTON, CALIFORNIA

LEGEND

DESCRIPTION	PROPOSED	EXISTING
SANITARY SEWER	6" SS	6" SS
STORM SEWER AKA STORM DRAIN	8" SD	8" SD
GAS LINE	4" G	4" G
WATER LINE	8" W	8" W
TELEPHONE	T	T
CABLE TELEVISION	TV	TV
GAS VALVE	G	G
WATER VALVE	W	W
ELECTRICAL CONDUIT	E	E
FENCE	X X X X	
MATCH LINE	STA. 5+00	
MAINTENANCE HOLE		
CATCHBASIN		
GAS METER	G	G
WATER METER	W	W
CURB AND GUTTER		
SIDEWALK		
DRIVEWAY		
CONFORM PAVEMENT		
FIRE HYDRANT		
SIGN		
SANITARY SEWER CLEANOUT		
UTILITY POLE		
GUARD RAIL		
BARRICADE		
FENCE		
RAILROAD		
WHEELCHAIR RAMP		
SANITARY SEWER SERVICE	'TEE' CONECTION	
LAMPHOLE		
TRAFFIC SIGNAL		
ELECTRICAL TRANSFORMER		
POWER SOURCE	PS	PS
BLOW-OFF		
STREET LIGHT		
CITY/COUNTY LIMIT LINE		



VICINITY MAP

NTS

SHEET INDEX

CIVIL

SHT#	
1	COVER SHEET
2	NOTES
3	KEY MAP, SECTIONS, & DETAILS
4	SANITARY SEWER PROFILE STA 79+00 TO STA 89+00
5	SANITARY SEWER PROFILE STA 89+00 TO STA 99+00
6	SANITARY SEWER PROFILE STA 99+00 TO STA 109+00
7	SANITARY SEWER PROFILE STA 109+00 TO STA 119+00
8	SANITARY SEWER PROFILE STA 119+00 TO STA 129+00
9	SANITARY SEWER PROFILE STA 129+00 TO STA 139+00
10	SANITARY SEWER PROFILE STA 139+00 TO STA 149+00
11	SANITARY SEWER PROFILE STA 149+00 TO STA 159+00
12	SANITARY SEWER PROFILE STA 159+00 TO STA 170+00
13	SANITARY SEWER PROFILE STA 170+00 TO STA 181+00
14	EROSION CONTROL STA 79+00 TO STA 109+00
15	EROSION CONTROL STA 109+00 TO STA 139+00
16	EROSION CONTROL STA 139+00 TO STA 159+00
17	EROSION CONTROL STA 159+00 TO STA 181+00
18	TRAFFIC LOOP REPAIR PLAN
19	TRAFFIC LOOP REPAIR PLAN
20	EXISTING STRIPING PLAN 78+50 TO 116+00
21	EXISTING STRIPING PLAN 116+00 TO 155+00
22	EXISTING STRIPING PLAN 155+00 TO 180+65

NOTE:

1. CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS TO THE CITY OF STOCKTON AND SAN JOAQUIN COUNTY FOR APPROVAL PRIOR TO ISSUANCE OF PERMIT.
2. CONSTRUCTION SHALL OCCUR WITH MINIMAL DISRUPTION TO TRAFFIC. BOTH LANES OF TRAFFIC (EB & WB) SHALL REMAIN OPEN DURING CONSTRUCTION.
3. ALL STRIPING SHALL BE REPLACED WITH THERMOPLASTIC PER CALTRANS LATEST EDITION.
4. CONTRACTOR SHALL SUBMIT SHORING PLANS FOR 6' WIDE X 22' DEEP AND 8' WIDE X 32' DEEP TRENCHES TO THE CITY OF STOCKTON AND SAN JOAQUIN COUNTY FOR APPROVAL PRIOR TO ISSUANCE OF PERMIT
5. CONTRACTOR/INSPECTOR TO MAKE NOTE OF EXISTING STRIPING LIMITS BEFORE DAMAGE/REMOVAL, SO THAT, STRIPING CAN BE RE-INSTALLED WITHIN THE SAME LOCATION.

COUNTY OF SAN JOAQUIN
DEPARTMENT OF PUBLIC WORKS

APPROVED AS ENCROACHMENT PERMIT PLAN SET
APPROVED FOR WORK WITHIN COUNTY RIGHT-OF-WAY ONLY

APPROVED: Alex Mutty DATE 6/5/14

RCE NO. 53407 EXP DATE 12/31/14

ENCROACHMENT PERMIT NO. B-1201149 DATE ISSUED: _____ BY: _____

ABBREVIATIONS

AB	= AGGREGATE BASE
ABS	= ACRYLONITRILE-BUTADIENE-STYRENE PIPE
AC	= ASPHALT CONCRETE
ARV	= AIR RELEASE VALVE
BO	= BLOW-OFF VALVE
BOW	= BACK OF SIDEWALK
BR	= BEGINNING OF RETURN
CALTRANS	= STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION
CF	= CUBIC FOOT (FEET)
CL.	= CLEAR
CONC.	= CONCRETE
CONST.	= CONSTRUCTION
COTG	= CLEANOUT TO GRADE
C-I-P	= CAST-IN-PLACE
CIPCP	= CAST-IN-PLACE CONCRETE PIPE
CVC	= CALIFORNIA VEHICLE CODE
C&G	= CURB & GUTTER
℄	= CENTERLINE
DETAIL X	= CALTRANS STRIPING DESIGNATION
DF	= DOUGLAS FIR
D.G.	= DECOMPOSED GRANITE
DIA.	= DIAMETER
DIP	= DUCTILE IRON PIPE
DIST.	= DISTANCE
DWY	= DRIVEWAY
ELEV.	= ELEVATION
E.P.	= EDGE OF PAVEMENT
ER	= END OF RETURN
EXIST.	= EXISTING
FC	= FACE OF CURB
FO	= FIBER OPTIC
FH	= FIRE HYDRANT
FL	= FLOW LINE
GALV.	= GALVANIZED
HCR	= HANDICAP RAMP
HDPE	= CORRUGATED POLYETHYLENE NONPRESSURE PIPE
HPS	= HIGH PRESSURE SODIUM
I.D.	= INSIDE DIAMETER
IE	= INVERT ELEVATION
I.P.	= IRON PIPE
JT	= JOINT TRENCH
LCC	= STOCKTON CITY CODE
LPD	= STOCKTON POLICE DEPARTMENT
LS	= REGISTERED LAND SURVEYOR
LSE	= LANDSCAPE EASEMENT
(LT)	= LEFT
MAX.	= MAXIMUM
MECH	= MECHANICAL
MH	= MAINTENANCE HOLE
MIN.	= MINIMUM
MLCSP	= MORTAR-LINED AND MORTAR-COATED STEEL PIPE
MPH	= MILES PER HOUR
O.C.	= ON CENTER
O.D.	= OUTSIDE DIAMETER
OH	= OVERHEAD UTILITY LINE
OHT	= OVERHEAD TELEPHONE LINE
PB	= PULL BOX
PCC	= PORTLAND CEMENT CONCRETE
PE	= POLYETHYLENE PLASTIC PIPE
⅊	= PROPERTY LINE
P.A.	= PLANTING AREA
PG&E	= PACIFIC GAS & ELECTRIC COMPANY
PT.	= POINT
P.U.E.	= PUBLIC UTILITIES EASEMENT
PVC	= POLYVINYL CHLORIDE PIPE
PVCPP	= PVC PRESSURE PIPE
PVCSDNPP	= PVC STORM DRAIN NONPRESSURE PIPE
R	= RADIUS
RCE	= REGISTERED CIVIL ENGINEER
RCP	= REINFORCED CONCRETE PIPE
RCPP	= REINFORCE CONCRETE PRESSURE PIPE
RCP(PVCL)	= REINFORCED CONCRETE PIPE (PVC LINED)
REQ'D	= REQUIRED
RE	= RIM ELEVATION
(RT)	= RIGHT
RW	= RECYCLED WATER
R/W	= RIGHT OF WAY
"S"	= SLOPE
SD	= STORM DRAIN
SDCB	= STORM DRAIN CATCH BASIN
SCH	= SCHEDULE
SL	= STREET LIGHT
SQ.	= SQUARE
SS	= SANITARY SEWER
SSFM	= SANITARY SEWER FORCE MAIN
SSLH	= SANITARY SEWER LAMP HOLE
STD.	= STANDARD
SW	= SIDEWALK
SWE	= SIDEWALK EASEMENT
T	= TELEPHONE
TC	= TOP OF CURB
T.V.	= TELEVISION
TYP.	= TYPICAL
T&B	= TOP & BOTTOM
VCP	= VITRIFIED CLAY PIPE
W	= WATER
WRD	= WATER RESOURCES DIVISION
W\	= WITH
ø	= DIAMETER

KEY NOTES

1. CONSTRUCT TYPE 1 MAINTENANCE HOLE PER COS STD DRAWING NO. 55
2. CONSTRUCT TYPE 1 MAINTENANCE HOLE WITH AN OUTSIDE SANITARY SEWER DROP PER COS STD DRAWING NO. 62.

SANITARY SEWER PIPES

ALL SANITARY SEWER PIPE MATERIAL SHALL BE IN ACCORDANCE WITH COS SPECIFICATION 71-102E AND SUMMARIZED AS FOLLOWS:

DIAMETER SIZE	TYPE
4"-15"	PSM SDR-35, ASTM 3034
18"	PS 46 PVC, ASTM F679
21"-48"	PWPVC, ASTM F1803-97

BENCHMARK

FOR THIS IMPROVEMENT PLAN SET, THE BENCHMARK UTILIZED WAS CITY OF STOCKTON BENCHMARK NO. 327, A SAN JOAQUIN COUNTY BRASS DISK STAMPED "0-27.4" IN THE NORTHWEST CORNER OF BRIDGE NO. 1047 ON AUSTIN ROAD, APPROXIMATELY 580 FEET NORTH OF ARCH ROAD. ELEVATION=43.54 FEET CITY OF STOCKTON 1996 ADJUSTED NGVD29. (PER CITY OF STOCKTON, 2002 CONVERSION TO THE NAVD88 DATUM, THE EQUATION WAS +2.46, FOR A BENCHMARK ELEVATION = 46.00 FEET)

ELEVATION= 43.54' (AS SHOWN ON PLANS) +2.46' (CONVERSION FACTOR)= 46.00'

REGISTERED PROFESSIONAL ENGINEER CHARLES R. MCCALLUM No. 53447 CIVIL STATE OF CALIFORNIA

PREPARED BY OR UNDER THE SUPERVISION OF CHARLES R MCCALLUM R.C.E. 53447 — DATE 1-9-13
LICENSE EXPIRES: 6-30-13

APPROVED BY: _____ DATE: 4/4/13
DIRECTOR OF MUNICIPAL UTILITIES

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Livermore, California 94551 Fax (925) 245-8796

IMPROVEMENT PLANS
ARCH ROAD SANITARY SEWER TRUNK LINE
COVER SHEET

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

REVISION NO.		DATE	BY	APPROVED

SCALE: AS SHOWN
DESIGNED BY: EYS
DRAWN BY:
CHECKED BY: CRM
RECORD DWG:

APPROVED BY: _____ DATE: 4/4/13
ASSISTANT DIRECTOR OF MUNICIPAL UTILITIES

SHEET NO. 1 OF 22 SHEETS
PROJECT NO. A06680-18

Z:\2006\A06680-6\A06680-6-ST-IMP-SANITARY SEWER.dwg 1/8/2013 2:57:06 PM PST

5191C

GENERAL NOTES FOR IMPROVEMENT PLANS:

1. THE CONTRACTOR SHALL CONTACT TONY TOVAR AT (209) 937-8790 OF THE CITY OF STOCKTON FOR A PRE-CONSTRUCTION CONFERENCE A MINIMUM OF SEVENTY TWO 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND LICENSES REQUIRED FOR THE CONSTRUCTION AND COMPLETION OF THE PROJECT, AND SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS AND CONDITIONS OF ALL PERMITS AND APPROVALS APPLICABLE TO THIS PROJECT. THE CONTRACTOR SHALL ENSURE THAT THE NECESSARY RIGHTS-OF-WAY, EASEMENTS, AND/OR PERMITS ARE SECURED PRIOR TO CONSTRUCTION.

3. CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT WHERE APPLICABLE FOR ANY WORK DONE WITHIN RIGHTS-OF-WAY OR EASEMENTS FROM CITY OF STOCKTON AND/OR SAN JOAQUIN COUNTY. CONTRACTOR SHALL NOTIFY CITY, 24 HOURS IN ADVANCE OF COMMENCING THE WORK OR AS REQUIRED BY SAID PERMITS.

4. ALL STATIONS REFER TO DISTANCES ALONG STREET CENTERLINE, UNLESS OTHERWISE NOTED. ALL STATIONS OFF CENTERLINE ARE PERPENDICULAR TO OR RADIALLY OPPOSITE CENTERLINE STATIONS.

5. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, BARRICADES, SIGNS, FLAGMEN OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY.

6. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL AND/OR DETOUR PLAN FOR APPROVAL BY THE CITY OF STOCKTON AND SAN JOAQUIN COUNTY TRAFFIC ENGINEER PRIOR TO THE START OF CONSTRUCTION.

7. PRIOR TO CONSTRUCTION, A SERVICE OUTAGE REQUEST (SOR) SHALL BE PREPARED WITH THE TRAFFIC CONTROL PLAN AND SUBMITTED TO THE CITY OF STOCKTON AND SAN JOAQUIN COUNTY TRAFFIC ENGINEERS FOR APPROVAL FOR THE TRAFFIC LOOPS AND ANY OTHER EQUIPMENT IMPACTED BY CONSTRUCTION. SEE SHEET 18 FOR ADDITIONAL NOTES.

8. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE CONSTRUCTION MANAGER.

9. DUST CONTROL SHALL BE PROVIDED AT ALL TIMES, AT THE CONTRACTOR'S EXPENSE, TO MINIMIZE ANY DUST NUISANCE AND SHALL BE IN ACCORDANCE WITH SECTION 10 OF CALTRANS STANDARD SPECIFICATIONS AND THE REQUIREMENTS OF THE CITY OF STOCKTON. CONTRACTOR SHALL OBTAIN A PERMIT FROM THE CITY OF STOCKTON MUNICIPAL UTILITIES DEPARTMENT FOR USE OF WATER FROM FIRE HYDRANTS FOR CONSTRUCTION PURPOSES.

10. WHENEVER EXISTING FACILITIES ARE REMOVED, DAMAGED, BROKEN, OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THESE PLANS OR SPECIFICATIONS, SAID FACILITIES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE, AFTER PROPER BACKFILLING AND/OR CONSTRUCTION, WITH MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL EXISTING FACILITIES. THE FINISHED PRODUCT SHALL BE SUBJECT TO THE APPROVAL OF THE CONSTRUCTION MANAGER.

11. THE CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF FULL-SIZE AS-BUILT RECORD DRAWINGS SHOWING THE FINAL LOCATION AND LAYOUT OF ALL PIPING AND CONDUITS; STRUCTURES AND OTHER FACILITIES. AS-BUILT RECORD DRAWINGS SHALL REFLECT CHANGE ORDERS, ACCOMMODATIONS, AND ADJUSTMENTS TO ALL IMPROVEMENTS CONSTRUCTED. WHERE NECESSARY, SUPPLEMENTAL DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR.

    PRIOR TO ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL DELIVER TO THE CONSTRUCTION MANAGER, ONE SET OF NEATLY MARKED AS-BUILT RECORD DRAWINGS SHOWING THE INFORMATION REQUIRED ABOVE. AS-BUILT RECORD DRAWINGS SHALL BE REVIEWED AND THE COMPLETE AS-BUILT RECORD DRAWING SET SHALL BE CURRENT WITH ALL CHANGES AND DEVIATIONS REDLINED AS A PRECONDITION TO THE FINAL PROGRESS PAYMENT APPROVAL AND/OR FINAL ACCEPTANCE

12. BENCHMARK:)

    BENCHMARK: NO. 327
    ELEVATION: 43 54
    DATUM: CITY OF STOCKTON, CALIFORNIA
    DESCRIPTION: A SAN JOAQUIN COUNTY BRASS DISK STAMPED "0-27.4" IN THE NORTHWEST CORNER OF BRIDGE NO. 1047 ON AUSTIN ROAD, APPROXIMATELY 580 FEET NORTH OF ARCH ROAD.

    FOR THIS IMPROVEMENT PLAN SET, THE DATUM UTILIZED ELEVATION= 43.54 FEET CITY OF STOCKTON 1996 ADJUSTED NGVD29. (PER CITY OF STOCKTON, 2002 CONVERSION TO THE NAVD88 DATUM, THE EQUATION WAS +2.46, FOR A BENCHMARK ELEVATION = 46.00 FEET)

13. PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE EACH UTILITY COMPANY LOCATE IN THE FIELD THEIR MAIN AND SERVICE LINES. THE CONTRACTOR SHALL NOTIFY MEMBERS OF THE UNDERGROUND SERVICE ALERT U.S.A. 48 HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK BY CALLING THE TOLL-FREE NUMBER 800-227-2600.

FOG SEAL:

ALL A.C. PAVING SHALL BE FOG SEALED PER SECTION 37 OF CALTRANS STANDARD SPECIFICATIONS, PER THE LATEST EDITION.

UTILITY NOTES:

1. INSTALLATION OF MAINTENANCE HOLES SHALL BE IN ACCORDANCE WITH CITY STANDARD DRAWING NO. 55 UNLESS OTHERWISE NOTED.

2. MAINTENANCE HOLES SHALL BE LINED AND COATED IN ACCORDANCE TO CITY STANDARD 71-1.09A.

STRIPING AND SIGNAGE NOTES:

1. ALL PAVEMENT MARKINGS, STRIPING AND CROSSWALKS SHALL BE THERMOPLASTIC. CROSSWALKS SHALL BE 12" WHITE THERMOPLASTIC STRIPE.

2. SIGNING, STRIPING, AND PAVEMENT MARKINGS SHALL BE IN STRICT CONFORMANCE WITH THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES CA-MUTCD "LATEST EDITION" AND CALTRANS STANDARD SPECIFICATIONS LATEST EDITION SECTION 84 & SECTION 85. ALL PAVEMENT TRAFFIC STRIPES, LEGENDS, ARROWS AND CROSSWALKS SHALL BE INSTALLED WITH HOT APPLIED THERMOPLASTIC PAVEMENT MATERIAL PER CALTRANS STANDARDS SPECIFICATIONS SECTION 10-1.35.

    THE THERMOPLASTIC MATERIAL SHALL BE FREE OF LEAD AND CHROMIUM AND CONFORM TO THE STATE SPECIFICATION PTH-02ALKYD (FOR MARKINGS) AND PTH-02SPRAY (FOR STRIPES). THERMOPLASTIC MATERIAL SHALL BE APPLIED TO THE PAVEMENT AT A MINIMUM THICKNESS OF 0.060 INCHES FOR LONG LINES (4 INCHES STRIPES AND 8 INCHES STRIPES IN WIDTH) 0.100 INCHES FOR ALL LEGENDS AND ARROWS. THE CROSSWALK LINES AND LIMIT LINES SHALL BE INSTALLED AT A MINIMUM THICKNESS OF 0.125 INCHES.

3. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE REMOVED PER CALTRANS STANDARDS SPECIFICATIONS SECTIONS 15-2.02B AND 15-2.02C.

4. THE CONTRACTOR SHALL ENSURE THAT THE APPROPRIATE STRIPING AND PAVEMENT MARKINGS ARE IN PLACE AT ALL TIMES. TEMPORARY STRIPING AND/OR PAVEMENT MARKINGS SHALL BE INSTALLED TO REPLACE ANY EXISTING STRIPING OR MARKINGS WHICH HAVE BEEN REMOVED. ANY CONFLICTING STRIPING SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR PRIOR TO REOPENING THE STREET TO TRAFFIC.

5. THE CONTRACTOR SHALL CONTACT THE CITY OF STOCKTON PUBLIC WORKS OPERATION AND MAINTENANCE DIVISION AND CONSTRUCTION MANAGER FOR THE EXACT LOCATION OF SIGNS.

6. THE CONTRACTOR SHALL REMOVE OR RELOCATE ANY EXISTING SIGNS IN CONFLICT WITH THESE PLANS AS DIRECTED BY THE CONSTRUCTION MANAGER. EXISTING STRIPING AND MARKINGS IN CONFLICT WITH THESE PLANS SHALL BE REMOVED BY THE CONTRACTOR. PAVEMENT SHALL BE REPAIRED AND STRIPING REPLACED IF DAMAGED IN CONJUNCTION WITH REMOVAL OF MARKERS OR INSTALLATION OF SANITARY SEWER.

7. ALL DIMENSIONS SHOWN ARE FROM FACE OF CURB, UNLESS OTHERWISE NOTED.

8. CONTRACTOR TO PREPARE TEMPORARY STRIPING AND TRAFFIC CONTROL PLANS FOR APPROVAL BY THE CITY OF STOCKTON, AND/OR SAN JOAQUIN COUNTY.

MONUMENT PROTECTION:

CONTRACTOR SHALL PROTECT ALL BENCH MARKS AND SURVEYED MONUMENTS DURING CONSTRUCTION. DAMAGED OR REMOVED MONUMENTS SHALL BE REPLACED, WITH THE SAME ORDER OF ACCURACY, AT THE CONTRACTOR'S EXPENSE.

SPECIFICATIONS:

GENERAL NOTES:

1. WHERE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS, IT IS UNDERSTOOD THAT ONLY FIRST QUALITY WORKMANSHIP AND MATERIALS ARE TO BE USED.

2. THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING CONSTRUCTION, INCLUDING JOB SITE SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO WORKING HOURS. THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD KIER & WRIGHT HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH WORK PERFORMED ON THIS PROJECT; ACCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF KIER & WRIGHT.

3. THE EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY AND ARE BASED UPON INFORMATION PROVIDED BY UTILITY COMPANIES AND BY MEASUREMENT OF SURFACE FEATURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF THE LOCATION OF ALL UNDERGROUND FACILITIES AND AGREES TO BE FULLY RESPONSIBLE OF ANY AND ALL DAMAGES WHICH OCCUR DUE TO FAILURE TO LOCATE AND PRESERVE SUCH UTILITIES.

4. ALL MANHOLE, LAMPHOLE, AND WATER VALVE CASTINGS AND COVERS SHALL BE ADJUSTED TO FINISH GRADE BY THE PAVING CONTRACTOR AFTER STREET IMPROVEMENTS ARE COMPLETE.

5. LINES AND GRADES. ALL DISTANCES AND MEASUREMENTS ARE GIVEN AND WILL BE MADE IN A HORIZONTAL PLANE. GRADES ARE GIVEN FROM THE TOP OF STAKES OR NAILS, UNLESS OTHERWISE NOTED.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL STAKES AND CONTROL POINTS PROVIDED FOR PROJECT CONSTRUCTION. EXPENSES INCURRED FOR THE REPLACEMENT OF SUCH STAKES OR CONTROL POINTS SHALL BE BORNE BY THE CONTRACTOR.

7. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS PERTAINING TO HIS OPERATIONS. HE SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MEN OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY. THE CONTRACTOR'S ATTENTION IS CALLED TO THE REQUIREMENTS OF TITLE 8, CALIFORNIA ADMINISTRATIVE CODE, SUBCHAPTER 4, ARTICLE 6, "EXCAVATIONS, TRENCHES, EARTHWORK".

8. THESE IMPROVEMENT PLANS HAVE BEEN PREPARED WITH THE INTENT THAT THE FIRM OF KIER & WRIGHT WILL BE PERFORMING THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT. IF, HOWEVER, ANOTHER ENGINEERING AND/OR SURVEYING FIRM SHOULD BE EMPLOYED TO USE THESE PLANS FOR THE PURPOSE OF CONSTRUCTION STAKING, NOTICE IS HEREBY GIVEN THAT THE FIRM OF KIER & WRIGHT WILL NOT ASSUME ANY RESPONSIBILITY FOR ERRORS OR OMISSIONS, IF ANY, WHICH MIGHT OCCUR AND WHICH COULD HAVE BEEN AVOIDED, CORRECTED, OR MITIGATED IF KIER & WRIGHT HAD PERFORMED THE STAKING WORK.

9. EXISTING CURB AND SIDEWALK WITHIN THE PROJECT LIMITS THAT ARE DAMAGED OR DISPLACED, EVEN THOUGH THEY WERE NOT TO BE REMOVED, SHALL BE REPAIRED OR REPLACED PER CITY STANDARD DETAILS EVEN IF DAMAGE OR DISPLACEMENT OCCURRED PRIOR TO ANY WORK PERFORMED BY THE CONTRACTOR.

DETECTORS:

DETECTORS SHALL CONFORM TO THE PROVISIONS IN SECTION 86 5, "DETECTORS" OF THE CALTRANS SPECIFICATIONS AND THESE SPECIAL PROVISIONS.

SENSOR UNITS SHALL BE RACK MOUNTED.

LOOP DETECTOR LEAD IN CABLE, FROM THE PULL BOX FOR THE DETECTOR HANDHOLE ADJACENT TO THE LOOP TO THE FIELD TERMINALS IN THE CONTROLLER CABINET, SHALL CONFORM TO THE FOLLOWING.

LEAD IN CABLE SHALL BE CANOGA (3M) DETECTOR LOOP LEAD-IN CABLE #30003 AND CONSIST OF 4 NUMBER 18 STRANDED COPPER CONDUCTORS WITH EACH CONDUCTOR INSULATED WITH POLYETHYLENE. THE CONDUCTORS SHALL BE TWISTED TOGETHER WITH A MINIMUM OF 5 TURNS PER FOOT AND THE TWISTED PAIR SHALL BE PROTECTED WITH A SHIELD OF ALUMINUM POLYESTER JACKET WITH A THICKNESS OF 27 MILS, MINIMUM, AT ANY POINT, AND SHALL BE UL LISTED, STYLE 2106. THE DIAMETER OF THE CABLE SHALL BE 0.25 INCH MAXIMUM. THE DIAGONAL PAIRS SHALL CONFORM THE FOLLOWING COLOR-CODING. WHITE/BLACK AND RED/GREEN.

INDUCTIVE LOOP DETECTOR INSTALLATION DETAILS: SECTION 86 5.01A (5), "INSTALLATION DETAILS," OF THE CALTRANS SPECIFICATIONS, SHALL BE DELETED AND THE FOLLOWING SHALL BE SUBSTITUTED:

LOOP LEAD INS SHALL BE INDIVIDUALLY IDENTIFIED AS SHOWN ON THE PLANS. IDENTIFICATION SHALL BE BY MEANS OF BANDS PLACED ON THE LEAD IN NEAR THE FIRST SPLICE.

THE LOOPS SHALL BE INSTALLED IN TYPE A CONFIGURATION. THE FRONT LOOPS ADJACENT TO THE LIMIT LINE SHALL BE TYPE D. INSTALL LOOP PER CALTRANS SPECIFICATIONS, STANDARD PLAN ES-5B. SEE DETAIL "A" ON THIS SHEET FOR DETECTOR LOOP PLACEMENT. THE SPACING BETWEEN ALL LOOPS SHALL BE 10 FEET. ALL LOOPS SHALL BE WRAPPED IN THE SLOTS IN THE SAME CLOCKWISE DIRECTION. THE LOOP WIRE ENDS MUST BE MARKED START AND FINISH WITH LOOP LANE/PHASE IDENTIFICATION NUMBER. SPLICES BETWEEN THE LOOP CONDUCTORS AND THE LEAD IN CABLE SHALL BE MADE IN THE PULLBOX ADJACENT TO THE LOOPS. THE LOOPS SHALL BE JOINED IN THE PULL BOX IN SERIES BUT ALTERNATING THE WIRE ENDS OF ADJACENT LOOPS TO ALTERNATE POLARITY TO ACHIEVE OPTIMUM SENSITIVITY AT THE SENSOR UNIT. SERIES LOOPS SHALL BE MARKED AND CONNECTED AS FOLLOWS. FIRST LOOP - "START" END TO LEAD-IN CABLE "FINISH" END TO "FINISH" WIRE OF SECOND LOOP. "START" WIRE OF SECOND LOOP TO "START" END OF THIRD LOOP. THE ALTERNATING SEQUENCE WILL CONTINUE FOR ANY SERIES OF LOOPS.

FOR DUAL LEFT OR WHERE THERE ARE MULTIPLE LANES WITH PRESENCE LOOPS ADJACENT TO EACH OTHER AND ARE 11 FEET WIDE AND NARROWER, INDUCTIVE LOOPS SHALL BE 5 FEET SQUARE/DIAMETER. FOR LANES WIDER THAN 11 FEET, INDUCTIVE LOOPS SHALL BE 6 FEET SQUARE/DIAMETER. ALL ADVANCE LOOPS AND SAMPLER LOOPS SHALL BE 6 FEET SQUARE/DIAMETER, REGARDLESS OF LANE WIDTH.

TYPE A OR B TRAFFIC RATED DETECTOR HANDHOLES MAY BE USED FOR LOOP INSTALLATIONS (PER BROOKS PRODUCT NO. 4-TT OR ACCEPTED EQUIVALENT). METAL TRIANGULAR LIDS WITH METAL RINGS SHALL BE USED. THE POINT OF THE TRIANGLE SHALL FACE IN THE DIRECTION OF TRAFFIC. CONDUIT FROM DETECTOR HANDHOLE TO NEAREST PULL BOX SHALL BE 2" DIAMETER OR AS SHOWN ON PLANS. IF THE HANDHOLE IS LOCATED AT THE LIP OF THE GUTTER, FOUR (4" DEEP) CONCRETE IS REQUIRED AROUND THE HANDHOLE.
SLOTS CUT IN THE PAVEMENT SHALL BE IMMEDIATELY CLEANED BY WASHING WITH WATER TO REMOVE ALL SAWING RESIDUE AND BLOWN OUT AND DRIED BEFORE INSTALLATION OF CONDUCTORS.

AFTER CONDUCTORS ARE INSTALLED IN THE SLOTS, THE SLOTS SHALL BE FILLED WITH SEALANT. THE SEALANT SHALL BE AT LEAST ONE INCH THICK ABOVE THE TOP CONDUCTOR IN THE SAW CUT. EACH LOOP SHALL BE CHECKED AND FILLED WITH SEALANT AFTER A MINIMUM ELAPSED TIME OF ONE HOUR. THIS IS DUE TO TRAPPED AIR POCKETS AND/OR SETTLING OF THE SEALANT.

ALL INDUCTIVE LOOPS AND LEAD IN SHOWN IN AREAS PAVED WITH "OPEN GRADED ASPHALT CONCRETE" SHALL BE INSTALLED A MINIMUM OF 2 INCH DEEPER, AS MEASURED FROM THE PAVEMENT SURFACE, THAN SHOWN ON THE DRAWINGS.

LOOP DETECTOR SEALANT WILL BE FURNISHED BY THE CONTRACTOR. SEALANT SHALL BE ASPHALTIC EMULSION INDUCTION LOOP SEALANT, STATE SPEC. NO. 8040 41A 15 AS MANUFACTURED BY REED & GRAHAM OF SAN JOSE, CALIFORNIA, OR CITY APPROVED ALTERNATE.

LOOP DETECTOR SEALANT MUST BE USED AT AIR TEMPERATURES ABOVE 40 DEGREES FAHRENHEIT. SEALANT SHALL BE PLACED 1/8 INCH BELOW PAVEMENT SURFACE. AT NO TIME SHALL THE SEALANT BE INSTALLED IF THE GROUND IS WET.

ONE-INCH (1") MINIMUM DIAMETER HOLES SHALL BE CORE DRILLED AT THE LOOP CORNER BEFORE SLOTS ARE SAW CUT. DIAGONAL CORNER CUTS SHALL NOT BE PERMITTED. HOMERUN CUT MUST BE AT A 45-DEGREE ANGLE FROM ANY CORNER OF THE LOOP. IF ROUND LOOPS ARE USED, HOMERUN SHALL BE CUT PERPENDICULAR TO THE LOOP SLOT. THIS PROHIBITS THE LOOP WIRE FROM BEING BENT MORE THAN 90 DEGREES.

CONDUCTORS OF ALL LOOPS TO BE OPERATED BY EACH SENSOR UNIT SHALL BE RUN CONTINUOUS TO THE NEAREST DETECTOR HANDHOLE UP TO THE NEAREST PULL BOX. THE LOOP WIRES BETWEEN THE LOOP AND ADJACENT PULL BOX SHALL BE TWISTED PER STATE SPECIFICATIONS. ALL LOOP WIRES SHALL HAVE THREE (3) FEET OF SLACK IN THE PULL BOX.

DETECTOR LOOP CONDUCTORS SHALL BE TYPE 2 LOOP CONDUCTORS.

SPLICES BETWEEN LOOPS AND LEAD IN CABLE SHALL NOT BE MADE UNTIL THE OPERATION OF THE LOOPS UNDER ACTUAL TRAFFIC CONDITIONS IS APPROVED BY THE ENGINEER. IF THERE IS MORE THAN A 24 HOUR LAG TIME BETWEEN THE TIME THE LOOPS ARE INSTALLED AND CONNECTED TO THE LEAD-IN CABLE, BOTH THE LOOP CONDUCTORS AND THE LEAD-IN CABLE ENDS SHALL BE WATER PROOFED UNTIL THE ACTUAL SPLICE IS MADE (TO PREVENT CAPILLARY ACTION OF WATER INTO THE CONDUCTOR INSULATION). THE CONDUCTORS AND LEAD-IN CABLE ENDS SHALL BE WATERPROOFED AS FOLLOWS:

COMPLETELY COVER THE CONDUCTOR AND LEAD-IN CABLE ENDS WITH AN ELECTRICAL INSULATING COATING AND ALLOWED TO DRY. APPLY ONE LAYER OF HIGH VOLTAGE TAPE HALF-LAPPED THEN APPLY ONE LAYER OF PVC TAPE HALF-LAPPED. APPLY ELECTRICAL INSULATING COATING OVER PVC TAPE AND AT LEAST 4 INCHES OF CONDUCTOR INSULATION ABOVE THE CUT ENDS.

ALL LOOPS SHALL BE MARKED WITH PHASE TAPE IN THE PULL BOX AS WELL AS IN THE CONTROLLER CABINET.

LEAD-IN CABLE FOR TRAFFIC SIGNAL AND TRAFFIC COUNTING INSTALLATIONS SHALL BE IDENTIFIED AND BANDED BY LANE IN THE DETECTOR HANDHOLE AND NEAR THE TERMINATION OF THE CONDUIT IN THE CONTROLLER OR TRAFFIC COUNT STATION CABINET. BANDS SHALL CONFORM TO THE PROVISIONS IN SECTION 86 2.09, "WIRING," OF THE CALTRANS SPECIFICATIONS.

THE CONTRACTOR SHALL TEST THE DETECTORS WITH A MOTOR DRIVEN CYCLE, AS DEFINED IN THE CALIFORNIA VEHICLE CODE, WHICH IS LICENSED FOR STREET USE BY THE DEPARTMENT OF MOTOR VEHICLES OF THE STATE OF CALIFORNIA. THE ANODYNE WEIGHT OF THE VEHICLE SHALL NOT EXCEED 220 POUNDS AND ENGINE DISPLACEMENT SHALL NOT EXCEED 100 CUBIC CENTIMETERS. SPECIAL FEATURES, COMPONENTS OR VEHICLES DESIGNED TO ACTIVATE THE DETECTOR WILL NOT BE PERMITTED. THE CONTRACTOR SHALL PROVIDE AN OPERATOR WHO SHALL DRIVE THE MOTOR DRIVEN CYCLE THROUGH THE RESPONSE OR DETECTION AREA OF THE DETECTOR AT NOT LESS THAN 3 MILES PER HOUR NOR MORE THAT 7 MILES PER HOUR. THE DETECTOR SHALL PROVIDE AN INDICATION IN RESPONSE TO THIS TEST.

NPDES NOTES:

1. THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS OF THE CALIFORNIA GENERAL CONSTRUCTION ACTIVITY STORM WATER PERMIT AND STATE GENERAL CONSTRUCTION ACTIVITY STORM WATER PERMIT AND STATE WATER RESOURCES CONTROL BOARD ORDER NUMBER 2009-0009-DWQ, COMPLIANCE IS MANDATORY PER CITY OF STOCKTON'S GRADING AND EROSION CONTROL ORDINANCE, CHAPTER 15.48 OF THE STOCKTON MUNICIPAL CODE.

2. ANY AND ALL SEDIMENT AND/OR EROSION CONTROL DETAILS CONTAINED WITHIN THESE PLANS ARE TO BE CONSIDERED AS "REFERENCE DETAILS" ONLY AND THE CITY'S APPROVAL OF THESE PLANS AND "REFERENCE DETAILS" DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN SWPPP AS APPROVED BY THE CITY'S STORM WATER DIVISION.

3. IN ADDITION TO ALL OF THE OTHER REQUIRED PERMITS. THE CONTRACTOR SHALL HAVE A GRADING AND EROSION CONTROL PERMIT COMPLETE WITH A SWPPP.

4. IN ORDER TO COMPLY WITH STATE WATER RESOURCES CONTROL BOARD ORDER NUMBER 2009-0009-DWQ, THE STORMWATER DIVISION REQURIES THAT ALL NEW CATCH BASINS INSTALLED COMPLY WITH COS STORMWATER STANDARD DESIGN CRITERIA PAGES 4-3 & 4-4.

5. IN ACCORDANCE WITH THE REQUIREMENTS OF THE RECENTLY ADOPTED STORM WATER NPDES PERMIT, THE FOLLOWING MUST BE SUBMITTED PRIOR TO OR DURING THE PRECONSTRUCTION MEETING:

    A. WASTE DISCHARGE IDENTIFICATION NUMBER WDID# _____.

    B. COPY OF A SIGNED NOI NOTICE OF INTENT FORM.

DEWATERING NOTES:

1. THE CONTRACTOR SHALL UTILIZE A SEDIMENTATION OR FILTERING CONTROL MEASURE TO REMOVE SEDIMENT FROM DEWATERING WATER PRIOR TO DISCHARGE.

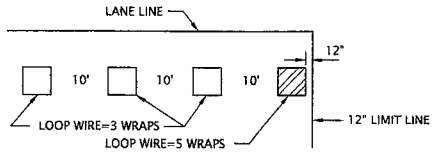
2. THE CONTRACTOR SHALL FURNISH,INSTALL, OPERATE AND MAINTAIN ALL MACHINERY, APPLIANCES, AND EQUIPMENT TO MAINTAIN ALL EXCAVATIONS FREE FROM WATER DURING CONSTRUCTION, AND SHALL DEWATER AND DISPOSE OF THE WATER SO AS NOT TO CAUSE INJURY TO PUBLIC OR PRIVATE PROPERTY, OR TO CAUSE A NUISANCE OR MENACE TO THE PUBLIC. THE DEWATERING SYSTEM SHALL BE INSTALLED AND OPERATED SO THAT THE GROUNDWATER LEVEL OUTSIDE THE EXCAVATION IS NOT REDUCED TO THE EXTENT WHICH WOULD CAUSE DAMAGE OR ENDANGER ADJACENT STRUCTURES OR PROPERTY. ALL COSTS FOR DEWATERING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ALL PIPE CONSTRUCTION. THE STATIC WATER LEVEL SHALL BE DRAWN DOWN A MINIMUM OF 1 FOOT BELOW THE BOTTOM OF EXCAVATION TO MAINTAIN THE UNDISTURBED STATE OF NATURAL SOILS AND ALLOW THE PLACEMENT OF ANY FILL TO THE SPECIFIED DENSITY. THE DISPOSAL OF WATER SHALL NOT DAMAGE PROPERTY, CREATE A PUBLIC NUISANCE OR VIOLATE THE LAW. THE CONTRACTOR SHALL HAVE ON HAND, PUMPING EQUIPMENT AND MACHINERY IN GOOD WORKING CONDITION FOR EMERGENCIES AND SHALL HAVE WORKMEN AVAILABLE FOR ITS OPERATION. THE DEWATERING SYSTEM SHALL OPERATE CONTINUOUSLY UNTIL BACKFILL HAS BEEN COMPLETED TO 1 FOOT ABOVE THE NORMAL STATIC GROUNDWATER LEVEL.

3. THE CONTRACTOR SHALL CONTROL SURFACE WATER TO PREVENT ENTRY INTO EXCAVATIONS. AT EACH EXCAVATION, A SUFFICIENT NUMBER OF TEMPORARY OBSERVATION WELLS TO CONTINUOUSLY CHECK THE GROUNDWATER LEVEL SHALL BE PROVIDED.

4 SUMPS SHALL BE NO DEEPER THAN 5 FEET AND SHALL BE AT THE LOW POINT OF EXCAVATION. EXCAVATION SHALL BE GRADED TO DRAIN TO THE SUMPS.

5. THE CONTROL OF GROUNDWATER SHALL BE SUCH THAT SOFTENING OF THE BOTTOM OF EXCAVATION, OR FORMATIONS OF "QUICK" CONDITIONS OF "BOILS", DOES NOT OCCUR. DEWATERING SYSTEMS SHALL BE DESIGNED AND OPERATED SO AS TO PREVENT REMOVAL OF THE NATURAL SOILS. THE RELEASE OF GROUNDWATER AT ITS STATIC LEVEL SHALL BE PERFORMED IN SUCH A MANNER AS TO MAINTAIN THE UNDISTURBED STATE OF THE NATURAL FOUNDATION SOILS, PREVENT DISTURBANCE OF COMPACTED BACKFILL, AND PREVENT FLOTATION OR MOVEMENT OF STRUCTURES, PIPELINES AND SEWERS.

6. ONE HUNDRED PERCENT 100% STANDBY PUMPING CAPACITY SHALL BE AVAILABLE ON SITE AT ALL TIMES AND SHALL BE CONNECTED TO THE DEWATERING SYSTEM PIPING TO PERMIT IMMEDIATE USE. IN ADDITION, STANDBY AUXILIARY EQUIPMENT AND APPLIANCES FOR ALL ORDINARY EMERGENCIES, AND COMPETENT WORKMEN FOR OPERATION AND MAINTENANCE OF ALL DEWATERING EQUIPMENT SHALL BE ON SITE AT ALL TIMES. STANDBY EQUIPMENT SHALL INCLUDE EMERGENCY POWER GENERATION AND AUTOMATIC SWITCH OVER TO THE EMERGENCY GENERATOR WHEN NORMAL POWER FAILS. THE DEWATERING SYSTEMS SHALL NOT BE SHUT DOWN BETWEEN SHIFTS, ON HOLIDAYS, ON WEEKENDS, OR DURING WORK STOPPAGES.



NOTE:

5'x5' LOOPS FOR 11' LANES AND NARROWER.
6'x6' LOOPS FOR LANES WIDER THAN 11'.
ALL SAMPLER AND ADVANCE LOOPS SHALL BE 6'x6'.
SEE STATE STD PLAN ES-5B WHEN TYPE D LOOP CONNECTED WITH ADDITIONAL LOOPS ON A SENSOR UNIT. DIMENSIONS ARE EDGELINE TO EDGELINE.

(TYPICAL)
DETECTOR PLACEMENT DETAIL (A)
NOT TO SCALE

CA: 1-800-227-2600
CALL BEFORE YOU DIG
USA
UNDERGROUND SERVICE ALERT
CA: 1-800-227-2600
CALL TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
CHARLES R. MCKEE
No. 53
CIVIL
STATE OF CALIFORNIA

KIER & WRIGHT
CIVIL ENGINEERS & SURVEYORS, INC.
2850 Collier Canyon Road (925) 245-8788
Livermore, California 94551 Fax (925) 245-8796

IMPROVEMENT PLANS
ARCH ROAD SANITARY SEWER TRUNK LINE

NOTES

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

REVISION NO.		DATE	BY	APPROVED

SCALE: AS SHOWN
DESIGNED BY: EYS
DRAWN BY:
CHECKED BY: CRM
RECORD DWG:

APPROVED BY: DATE: 4/4/13
ASSISTANT DIRECTOR OF MUNICIPAL UTILITIES

SHEET NO. 2 OF 22 SHEETS
PROJECT NO. A06680-18

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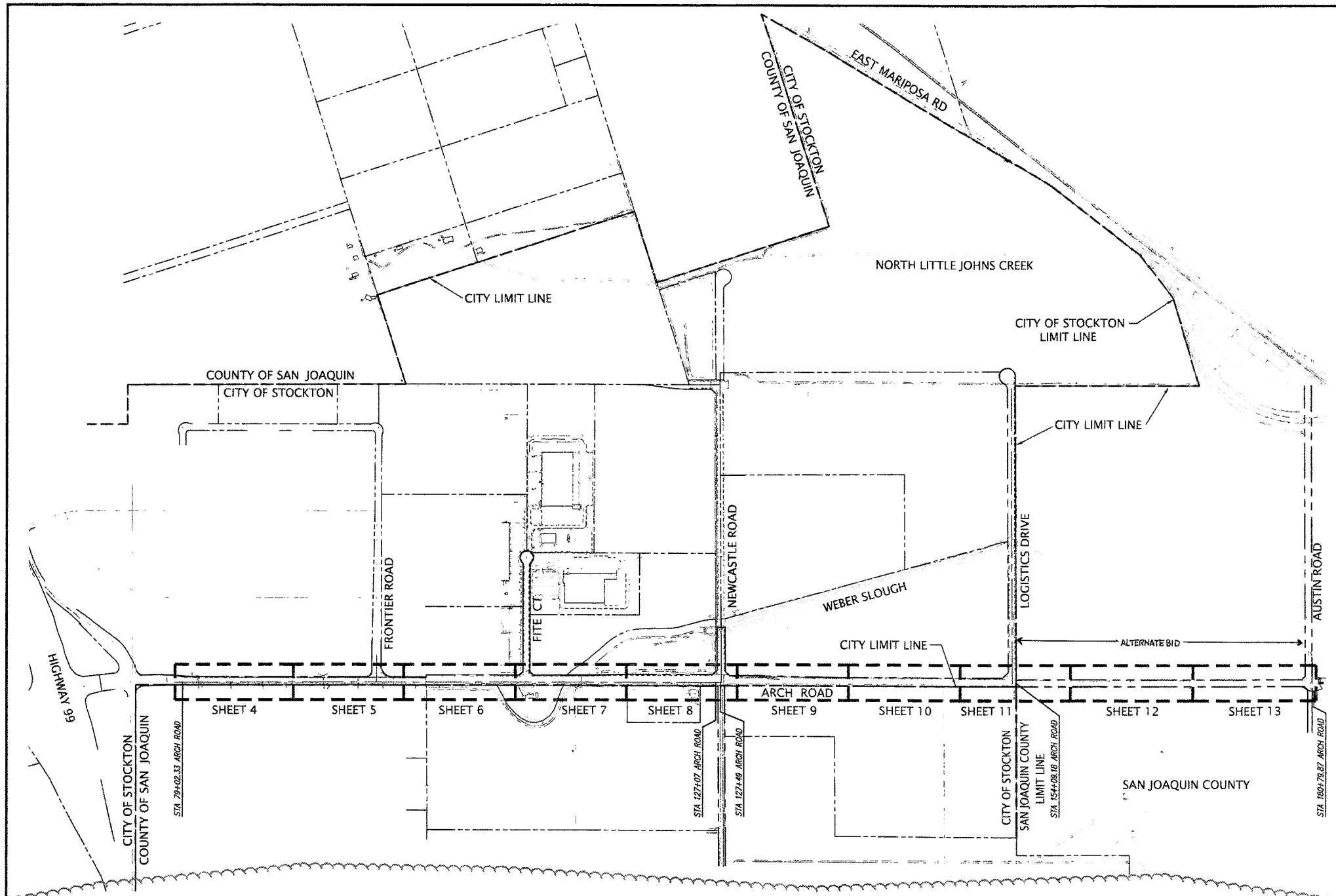


0 250 500 1000 1500

Scale 1" = 500 ft

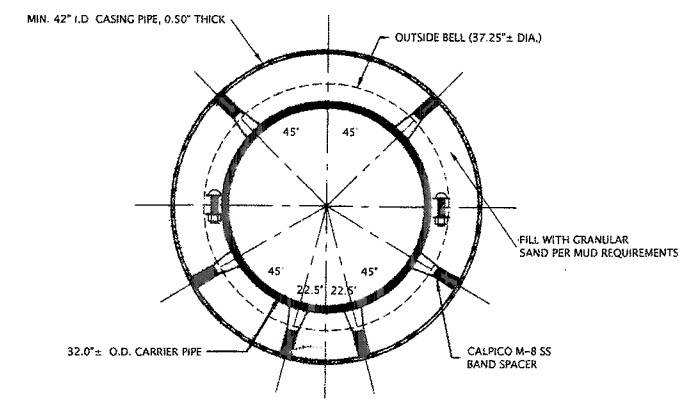
STEEL PIPE CASING

(1) PIPE MAY BE STRAIGHT SEAM OR SPIRAL WELDED. A PROTECTIVE COAT WILL NOT BE REQUIRED. SPACERS FOR INSTALLATION OF THE CARRIER PIPE SHALL BE INSTALLED BY THE CONTRACTOR.

(2) THE DIAMETER AND WALL THICKNESS OF THE STEEL PIPING SHALL BE AS LISTED IN THE FOLLOWING TABLE.

PIPE SIZE (INCHES)	OUTSIDE DIAMETER OF BELL (INCHES)	CASING SIZE (INCHES)	CASING THICKNESS (INCHES)
30	32.0±	42	0.50

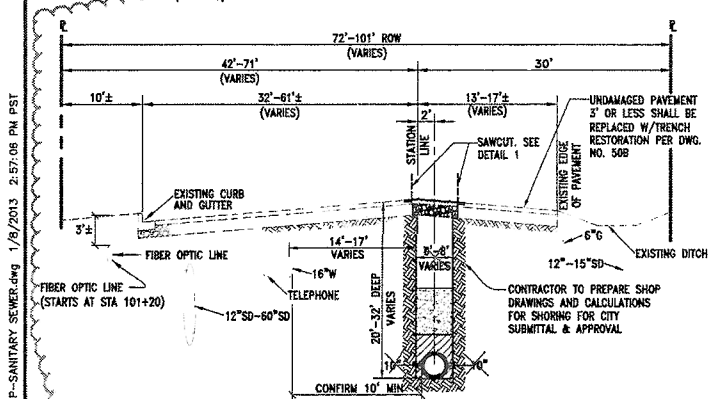
(3) THE THICKNESS OF CASING SHOWN IN (2) ARE A MINIMUM THICKNESS. ACTUAL THICKNESS SHALL BE DETERMINED BY THE CASING INSTALLER BASED ON AN EVALUATION OF THE REQUIRED JACKING FORCES. ANY BUCKLING OF THE CASING DUE TO JACKING FORCES SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.



NOTES:
1. CARRIER PIPE SHALL BE 30"
2. BAND SPACERS SHALL BE AN 8" WIDE, 304 SS "CALPICO M-8-SS BAND SPACER IN A "CENTERING POSITION". SPACING PER MANUFACTURER'S REQUIREMENTS. TOP GAP=1.00"±, BOTTOM CLEARANCE=1.375"±. END SEALS SHALL BE "CALPICO MODEL C" WITH STAINLESS STEEL STRAPS.
3. REFER TO C.O.S. DRAWING NO. 60 & 60A FOR ADDITIONAL INSTALLATION NOTES & DETAILS.
4. CASING PIPE SHALL BE 42" STEEL PIPE, PER ASTM A53, GRADE B
5. CONFORM TO THE REQUIREMENTS OF APPLICABLE PERMITS.

CARRIER PIPE INSTALLATION FOR WEBER SLOUGH CROSSING

NO SCALE

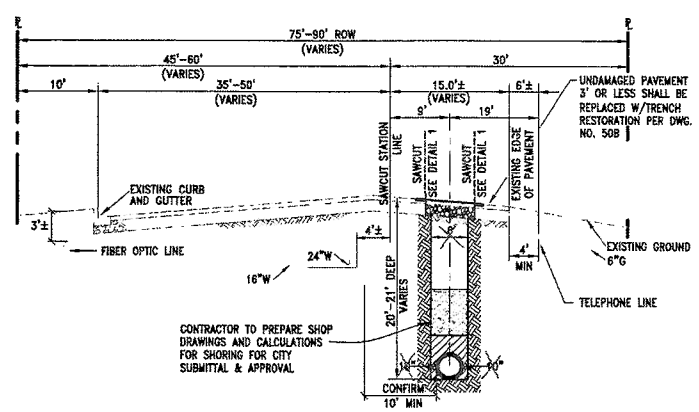


NOTE:
① CONTRACTOR TO REFER TO THE "CONDOR EXHIBIT PREPARED BY "CONDOR EARTH TECHNOLOGIES, INC." FOR TRENCH SECTION INSTALLATION, PAVEMENT STRUCTURAL SECTION REQUIREMENTS & TI'S.
② TRENCH WIDTH SHALL BE 8' WIDE FROM STA 79+02.33 TO STA 91+22.35 AND 6' WIDE FROM STA 91+22.35 TO STA 127+07

ARCH ROAD SECTION STA 79+02.33 TO STA 127+07

NOT TO SCALE

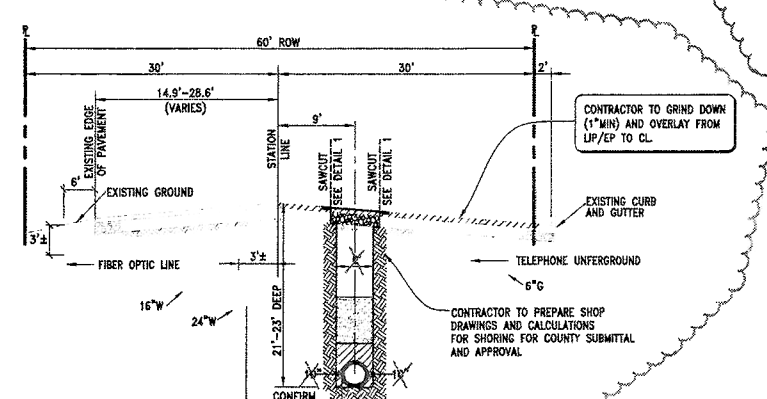
REFER TO APPENDIX C - IN SPECIFICATIONS - GEOTECHNICAL ENGINEERING STUDY. FIGURE 5 FOR TRENCH DETAIL WIDTH



NOTE:
① CONTRACTOR TO REFER TO THE "CONDOR EXHIBIT PREPARED BY "CONDOR EARTH TECHNOLOGIES, INC." FOR TRENCH SECTION INSTALLATION, PAVEMENT STRUCTURAL SECTION REQUIREMENTS & TI'S.

ARCH ROAD SECTION STA 127+49 TO STA 154+09.18

NOT TO SCALE

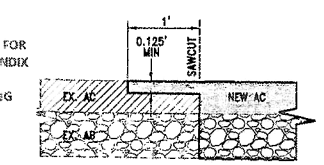


NOTE:
① CONTRACTOR TO REFER TO THE "CONDOR EXHIBIT PREPARED BY "CONDOR EARTH TECHNOLOGIES, INC." FOR TRENCH SECTION INSTALLATION, PAVEMENT STRUCTURAL SECTION REQUIREMENTS & TI'S.

ARCH ROAD SECTION STA 154+09.18 TO STA 180+79.87

NOT TO SCALE

THIS DETAIL SHALL BE USED FOR SAWCUT DETAIL, NOT APPENDIX C - IN SPECIFICATIONS - GEOTECHNICAL ENGINEERING STUDY. FIGURE 5



DETAIL 1. LAP JOINT SAW CUT DETAIL

REGISTERED PROFESSIONAL ENGINEER — CHARLES R. MOCKETT — CIVIL — STATE OF CALIFORNIA

CALL BEFORE YOU DIG — UNDERGROUND SERVICE ALERT — CA: 1-800-227-2600 — CALL TWO WORKING DAYS BEFORE YOU DIG

KIER & WRIGHT
CIVIL ENGINEERS & SURVEYORS, INC.
2850 Collier Canyon Road (925) 245-8788
Livermore, California 94551 Fax (925) 245-8796

IMPROVEMENT PLANS
ARCH ROAD SANITARY SEWER TRUNK LINE
KEY MAP, NOTES AND DETAILS

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

REVISION NO.		DATE	BY	APPROVED
1	REFER TO APPENDIX C - IN SPECIFICATIONS FOR TRENCH DETAIL WIDTH			
2	USE THIS SAWCUT DETAIL ON THIS SHEET NOT APPENDIX C DETAIL			

SCALE: 1"=500'	APPROVED BY:	DATE: 9/9/13	SHEET NO. 3 OF 22 SHEETS
DESIGNED BY: EYS	ASSISTANT DIRECTOR OF MUNICIPAL UTILITIES		PROJECT NO. A06680-18
DRAWN BY:			
CHECKED BY: CRM			
RECORD DWG:			

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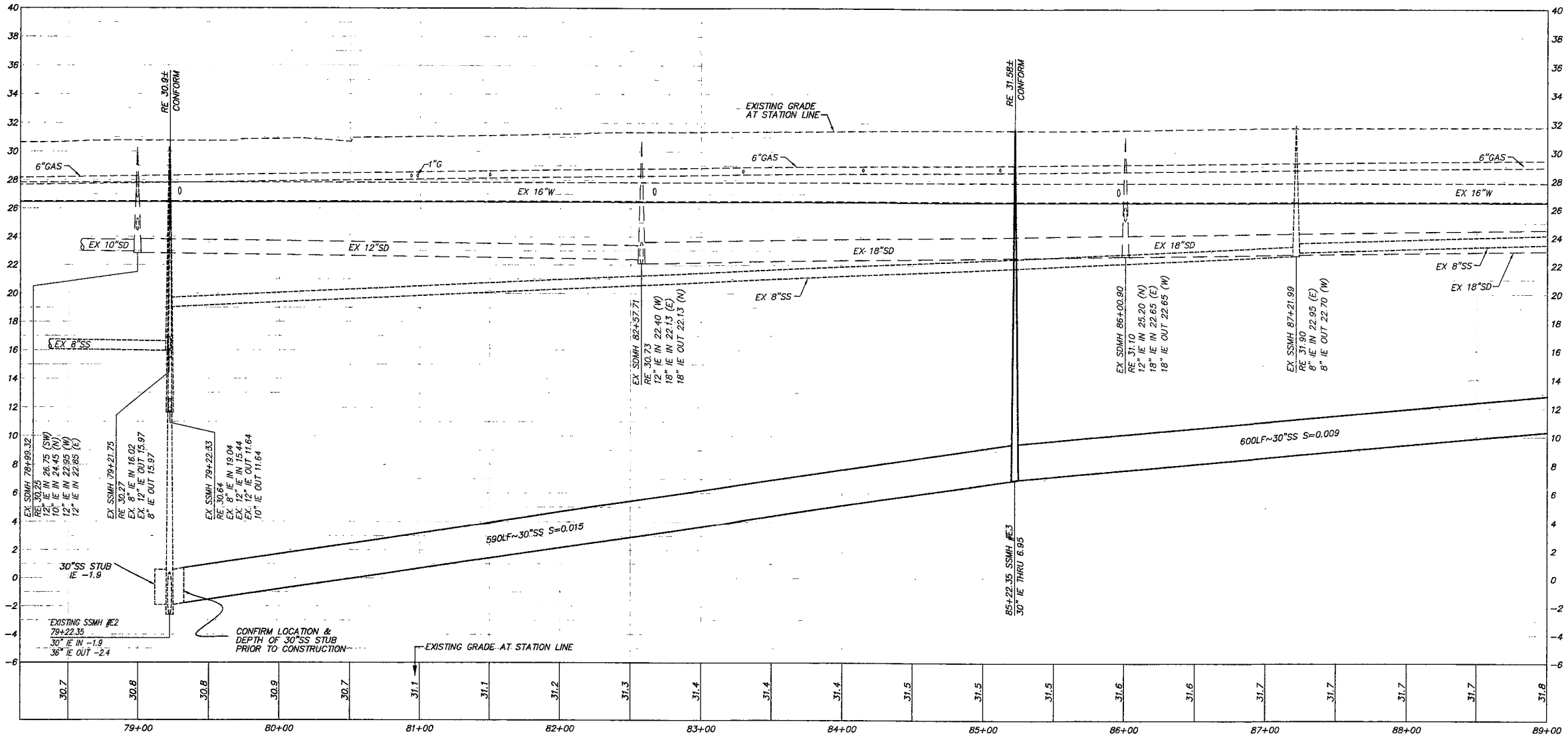
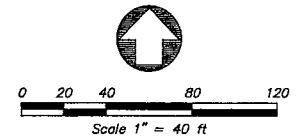


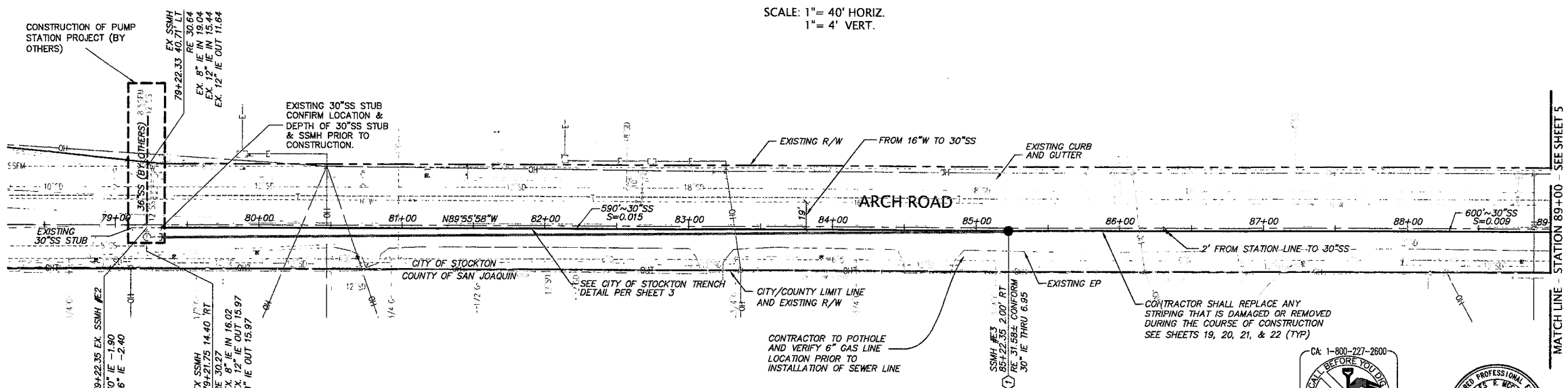
PROFILE

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



KEY NOTES

1. CONSTRUCT TYPE 1 MAINTENANCE HOLE PER COS STD DRAWING NO. 55



PLAN

SCALE: 1"= 40'

KIER & WRIGHT
CIVIL ENGINEERS & SURVEYORS, INC.
2850 Collier Canyon Road (925) 245-8788
Livermore, California 94551 Fax (925) 245-8796

CA: 1-800-227-2600 CALL BEFORE YOU DIG UNDERGROUND SERVICE ALERT CA: 1-800-227-2600 CALL TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER CHARLES R. WEGENER No. 51... CIVIL STATE OF CALIFORNIA

IMPROVEMENT PLANS
ARCH ROAD SANITARY SEWER TRUNK LINE

SANITARY SEWER PROFILE STA 79+00 TO STA 89+00

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

REVISION NO.		DATE	BY	APPROVED

SCALE: AS SHOWN	APPROVED BY:	DATE: 4/9/13	SHEET NO. 4 OF 22 SHEETS
DESIGNED BY: EYS			
DRAWN BY:			PROJECT NO. A06680-18
CHECKED BY: CRW	ASSISTANT DIRECTOR OF MUNICIPAL UTILITIES		
RECORD DWG:			

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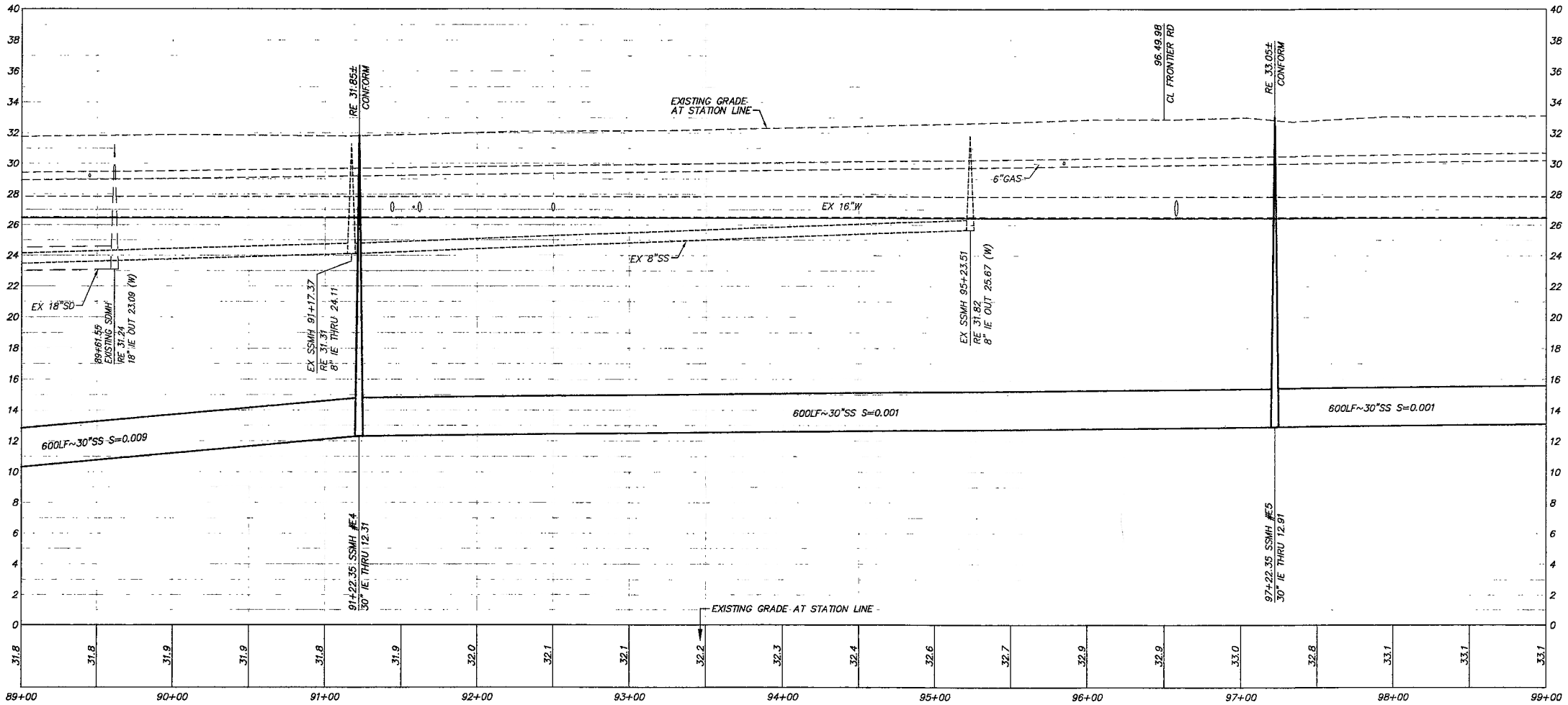
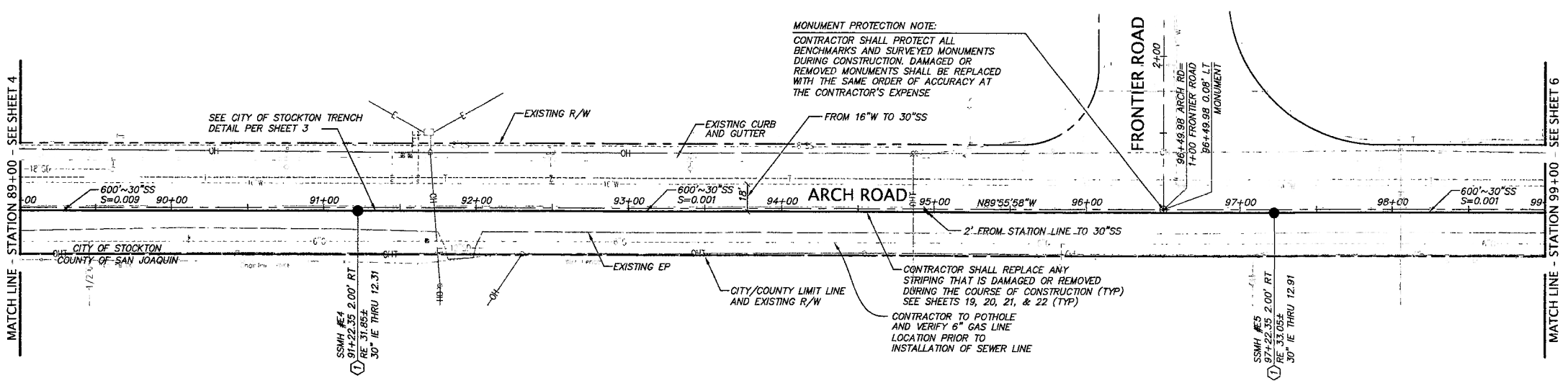


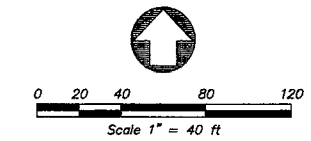
PROFILE

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



PLAN

SCALE: 1"= 40'



KEY NOTES

1. CONSTRUCT TYPE 1 MAINTENANCE HOLE PER COS STD DRAWING NO. 55

CA: 1-800-227-2600 CALL BEFORE YOU DIG UNDERGROUND SERVICE ALERT CA: 1-800-227-2600 CALL TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER CHARLES R. MCKEEVER CIVIL STATE OF CALIFORNIA

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Livermore, California 94551 Fax (925) 245-8796

IMPROVEMENT PLANS
ARCH ROAD SANITARY SEWER TRUNK LINE

SANITARY SEWER PROFILE STA 89+00 TO STA 99+00

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

REVISION NO.		DATE	BY	APPROVED

SCALE: AS SHOWN
DESIGNED BY: EYS
DRAWN BY:
CHECKED BY: CRM
RECORD DWG:

APPROVED BY: DATE: 9/4/13
ASSISTANT DIRECTOR OF MUNICIPAL UTILITIES

SHEET NO. 5 OF 22 SHEETS
PROJECT NO. A06680-18

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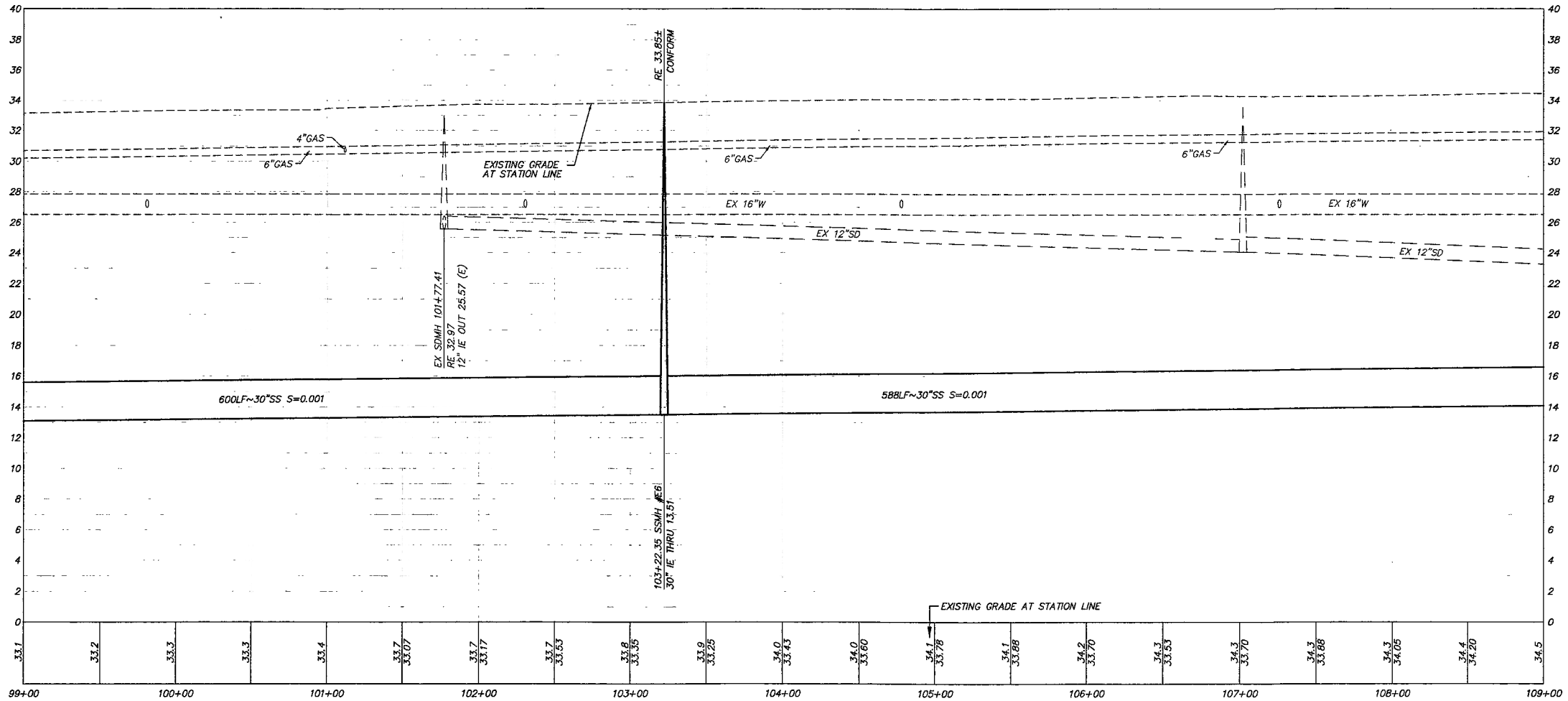
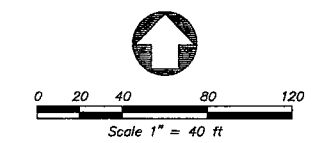


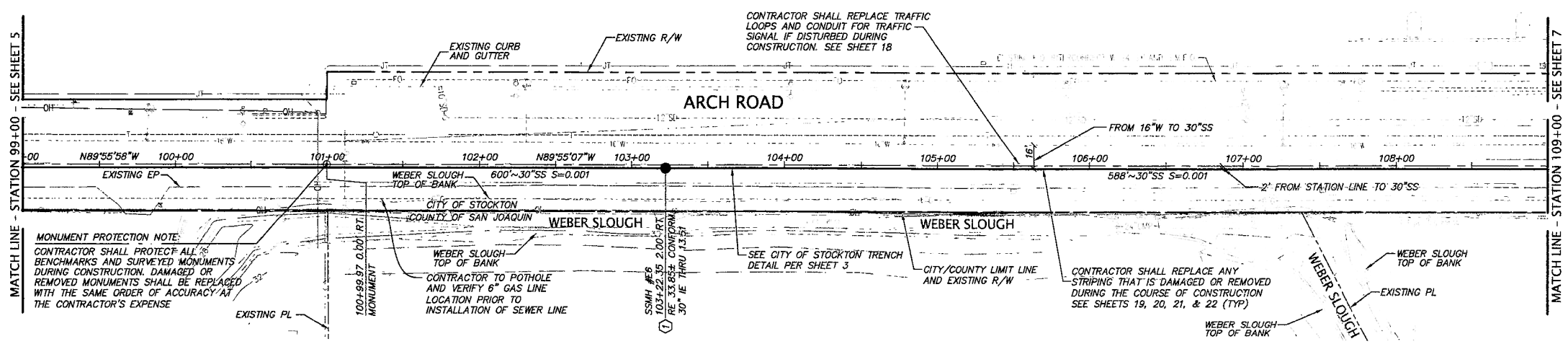
PROFILE

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



KEY NOTES

(1) CONSTRUCT TYPE 1 MAINTENANCE HOLE PER COS STD DRAWING NO. 55



PLAN

SCALE: 1"= 40'

CA: 1-800-227-2600
CALL BEFORE YOU DIG
USA
UNDERGROUND SERVICE ALERT
CA: 1-800-227-2600
CALL TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
NICHOLAS R. MCCALLUM
No. 53
CIVIL
STATE OF CALIFORNIA

KIER & WRIGHT
CIVIL ENGINEERS & SURVEYORS, INC.
2850 Collier Canyon Road (925) 245-8788
Livermore, California 94551 Fax (925) 245-8796

IMPROVEMENT PLANS
ARCH ROAD SANITARY SEWER TRUNK LINE

SANITARY SEWER PROFILE STA 99+00 TO STA 109+00

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

REVISION NO.		DATE	BY	APPROVED

SCALE: AS SHOWN	APPROVED BY:	DATE: 4/4/17	SHEET NO. 6
DESIGNED BY: EYS			OF 22 SHEETS
DRAWN BY:			PROJECT NO. A06680-18
CHECKED BY: CRM	ASSISTANT DIRECTOR OF MUNICIPAL UTILITIES		
RECORD DWG:			

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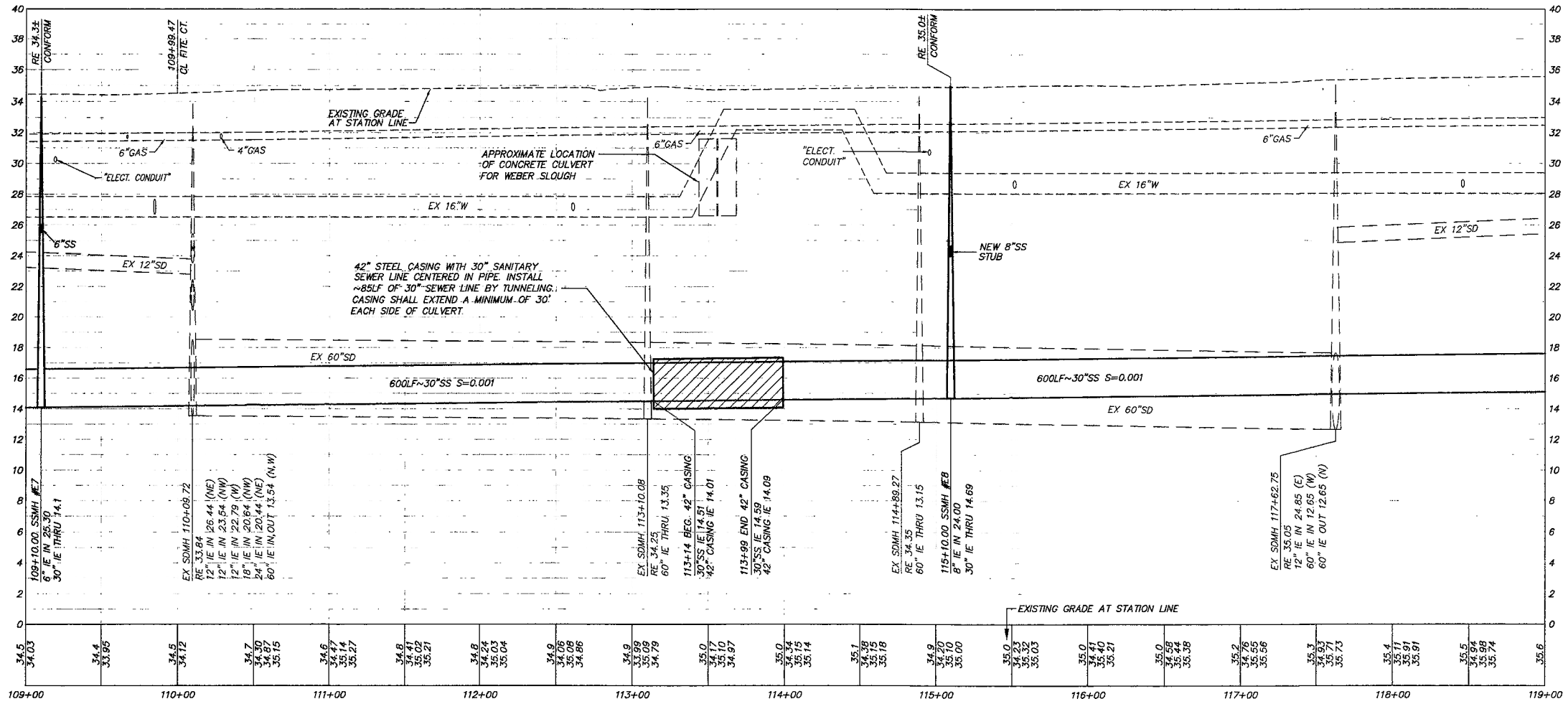
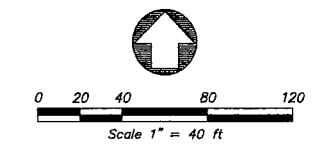


PROFILE

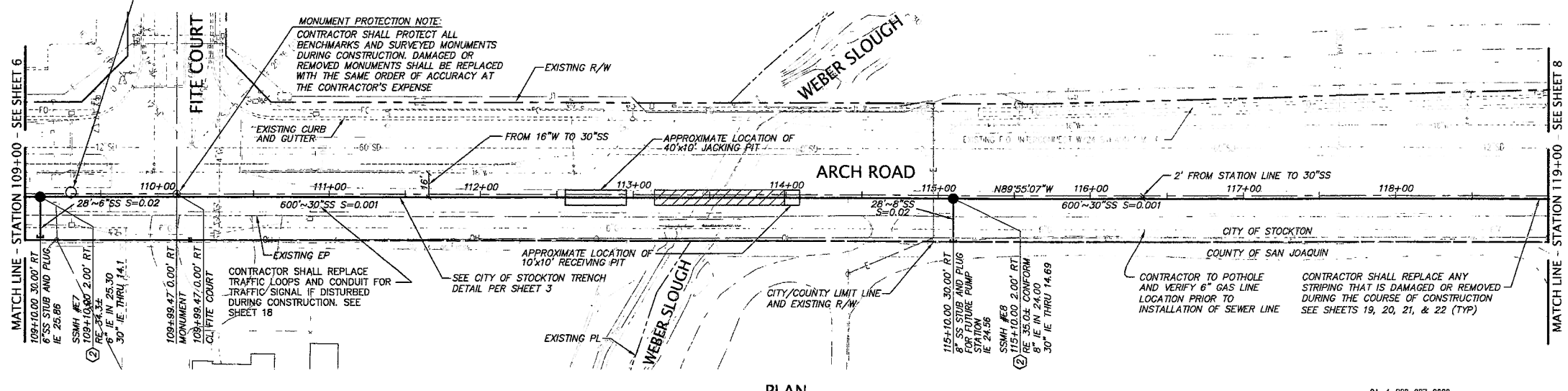
SCALE: 1"= 40' HORIZ.
1"= 4' VERT.



KEY NOTES

(2) CONSTRUCT TYPE 1 MAINTENANCE HOLE WITH AN OUTSIDE SANITARY SEWER DROP PER STD. DWG. S2

CONTRACTOR SHALL UTILIZE ANY MEANS TO AVOID HITTING THE SIGNAL CONDUIT CROSSINGS DURING CONSTRUCTION. SIGNAL OPERATION SHALL REMAIN ON AT ALL TIMES. CONTRACTOR SHALL HAND DIG TO THE CONFLICT CROSSING POINTS.



PLAN

SCALE: 1"= 40'

CA: 1-800-227-2600 CALL BEFORE YOU DIG UNDERGROUND SERVICE ALERT CA: 1-800-227-2600 CALL TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER CHARLES R. MOZELE CIVIL STATE OF CALIFORNIA

KIER & WRIGHT
CIVIL ENGINEERS & SURVEYORS, INC.
2850 Collier Canyon Road (925) 245-8788
Livermore, California 94551 Fax (925) 245-8796

IMPROVEMENT PLANS
ARCH ROAD SANITARY SEWER TRUNK LINE
SANITARY SEWER PROFILE STA 109+00 TO STA 119+00

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

REVISION NO.		DATE	BY	APPROVED

SCALE: AS SHOWN	APPROVED BY:	DATE: 4/4/13	SHEET NO. 7
DESIGNED BY: EYS			OF 22 SHEETS
DRAWN BY:			PROJECT NO.
CHECKED BY: CRM	ASSISTANT DIRECTOR OF MUNICIPAL UTILITIES		A06680-18
RECORD DWG:			

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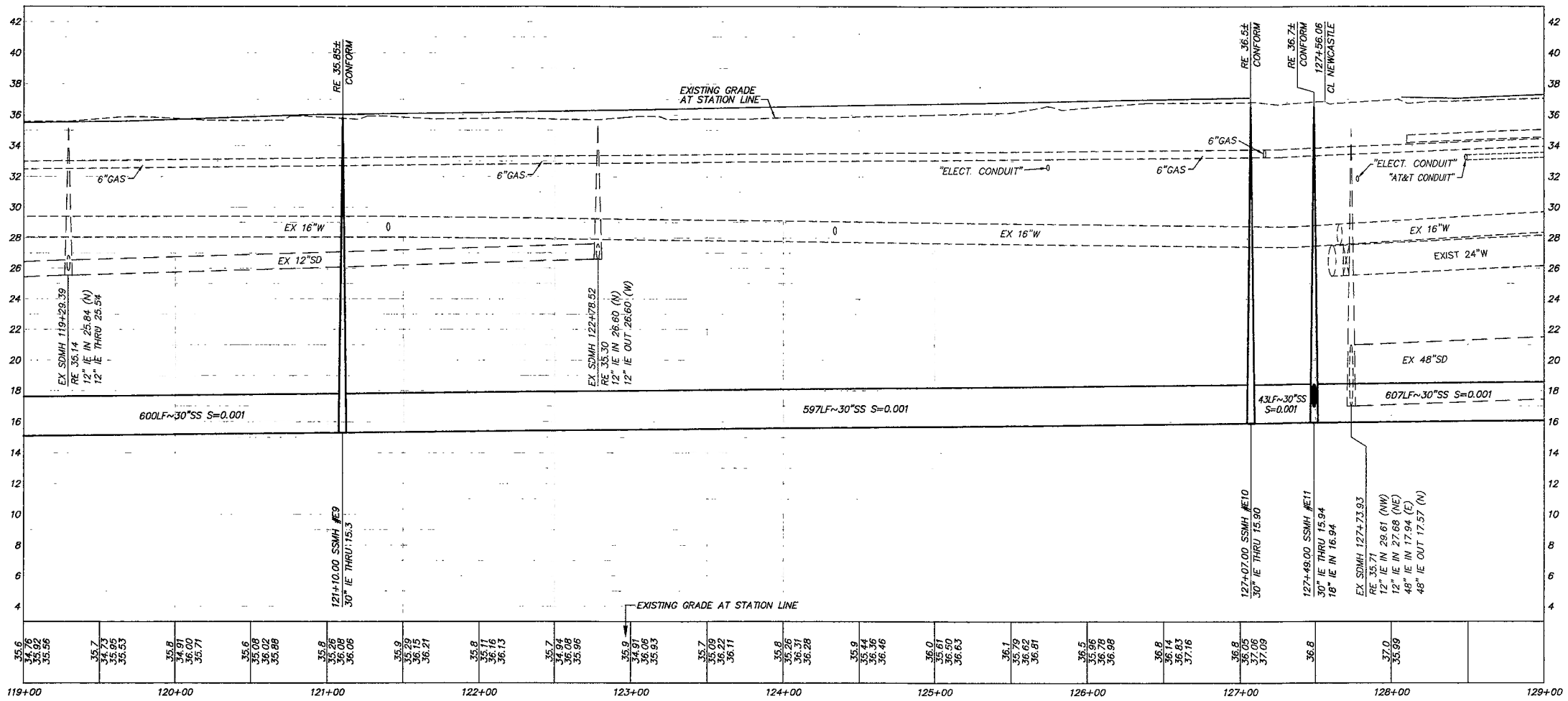
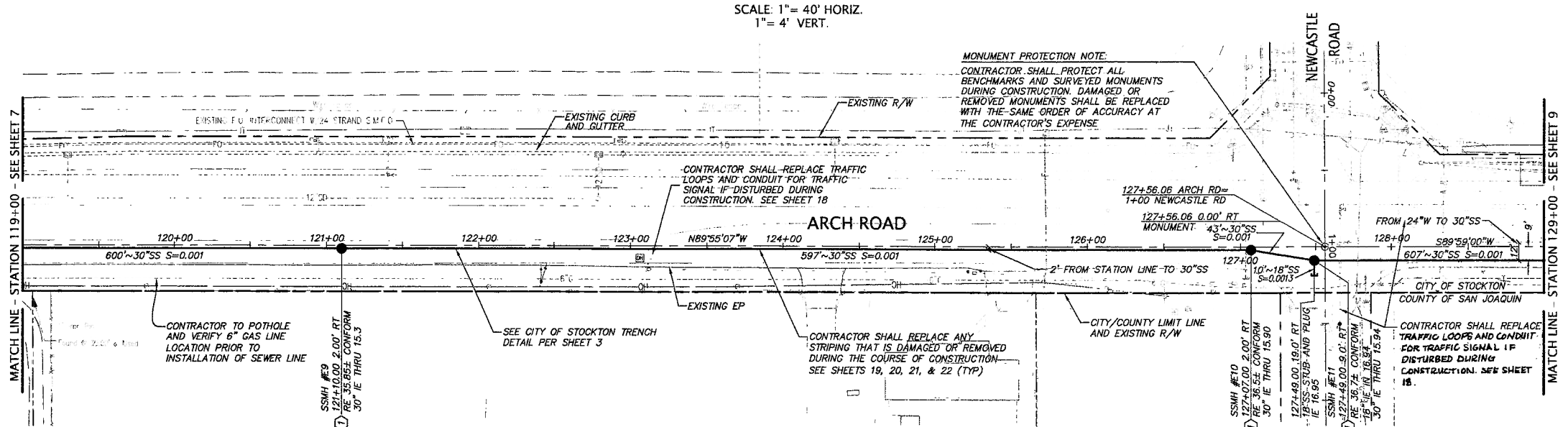


PROFILE

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



PLAN

SCALE: 1"= 40'

0 20 40 80 120
Scale 1" = 40 ft

KEY NOTES:

1. CONSTRUCT TYPE 1 MAINTENANCE HOLE PER COS STD DRAWING NO. 55

KIER & WRIGHT
CIVIL ENGINEERS & SURVEYORS, INC.
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REGISTERED PROFESSIONAL ENGINEER CHARLES K. MCKATTEN CIVIL STATE OF CALIFORNIA

IMPROVEMENT PLANS
ARCH ROAD SANITARY SEWER TRUNK LINE

SANITARY SEWER PROFILE STA 119+00 TO STA 129+00

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

REVISION NO.		DATE	BY	APPROVED

SCALE: AS SHOWN
DESIGNED BY: EYS
DRAWN BY:
CHECKED BY: CRM
RECORD DWG:

APPROVED BY: DATE: 4/9/13
ASSISTANT DIRECTOR OF MUNICIPAL UTILITIES

SHEET NO. 8 OF 22 SHEETS
PROJECT NO. A06680-18

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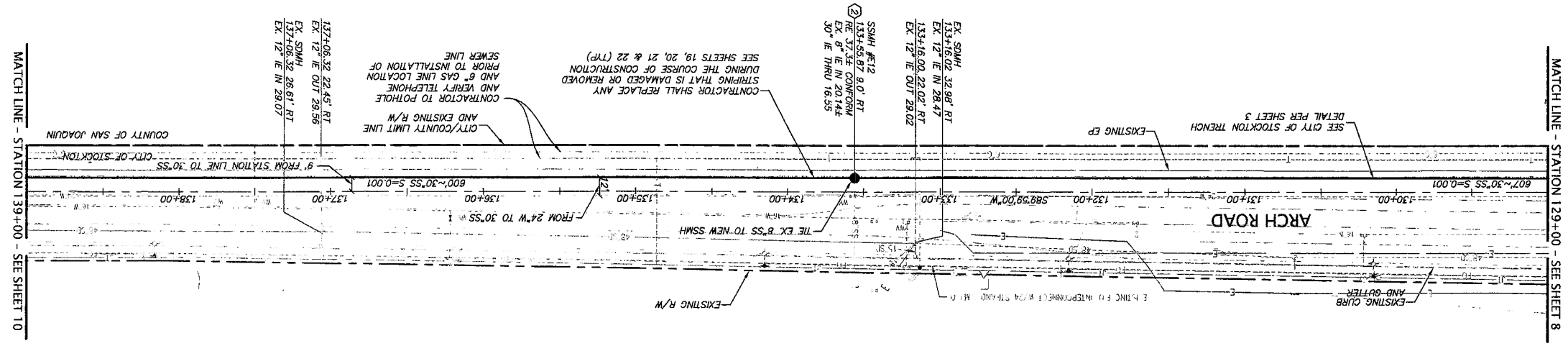
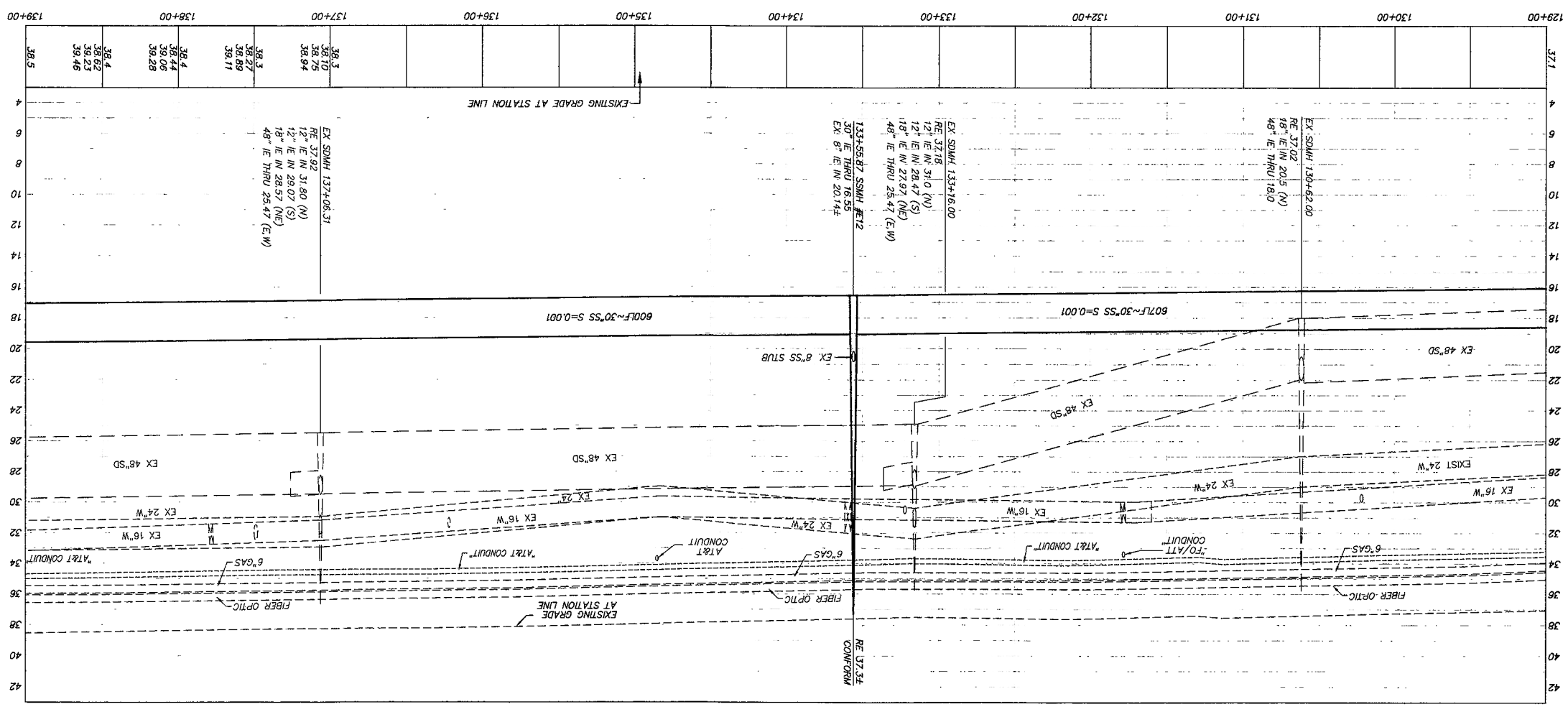


PLAN

SCALE: 1"= 40'



PROFILE

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

CALL BEFORE YOU DIG
CA: 1-800-227-2600
CALL TWO WORKING DAYS BEFORE YOU DIG

KIER & WRIGHT
CIVIL ENGINEERS & SURVEYORS, INC.
2850 Collier Canyon Road (925) 245-8788
Livermore, California 94551 Fax (925) 245-8796

IMPROVEMENT PLANS
ARCH ROAD SANITARY SEWER TRUNK LINE
SANITARY SEWER PROFILE STA 129+00 TO STA 139+00

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

SCALE: AS SHOWN	APPROVED BY:	DATE 4/4/13	SHEET NO. 9
DESIGNED BY: EYS			OF 22 SHEETS
DRAWN BY:			PROJECT NO. A06680-18
CHECKED BY: CRM			
RECORD DWG.			

REVISION NO.	DATE	BY	APPROVED

ASSISTANT DIRECTOR OF MUNICIPAL UTILITIES

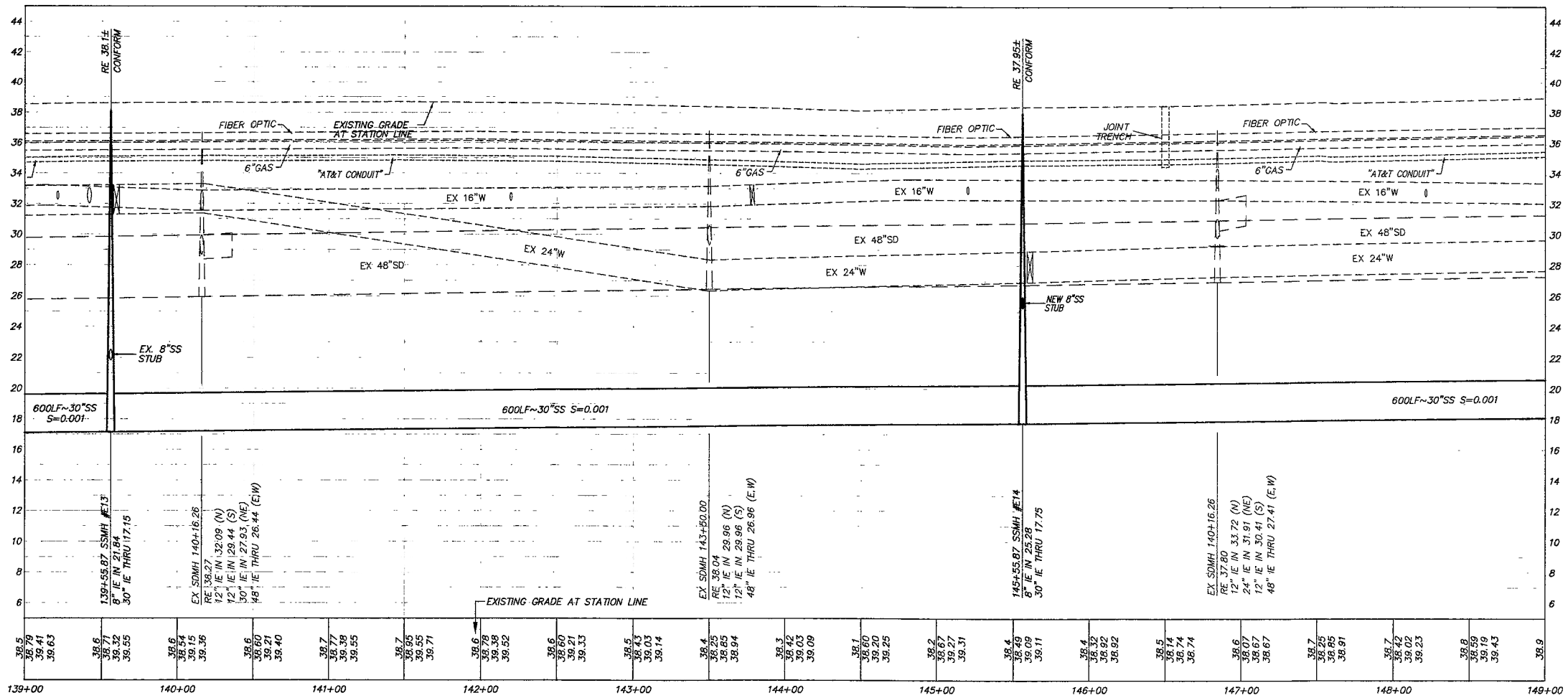
Scale 1" = 40 ft

0 20 40 80 120

KEY NOTES

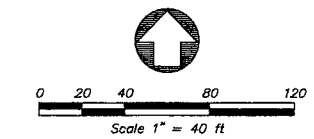
(2) CONSTRUCT TYPE 1 MAINTENANCE HOLE WITH AN OUTSIDE SANITARY SEWER DROP PER STD. DWG. No. 62.

5191.8C



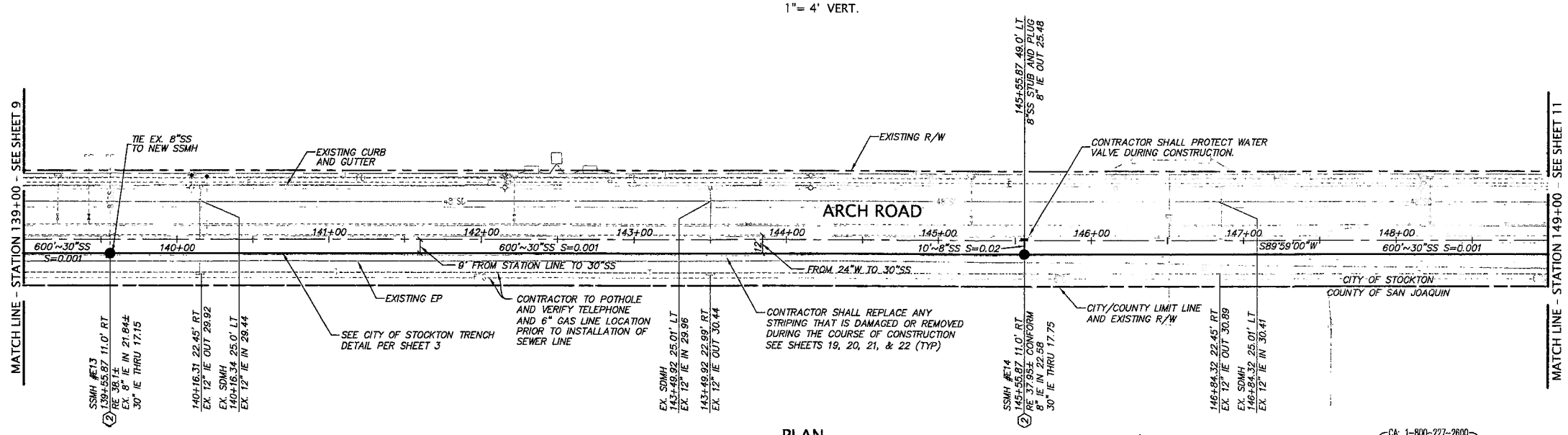
PROFILE

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



KEY NOTES

(2) CONSTRUCT TYPE 1 MAINTENANCE HOLE WITH AN OUTSIDE SANITARY SEWER DROP PER STD. DWG NO. S2.



PLAN

SCALE: 1"= 40'

CA: 1-800-227-2600
CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
CA: 1-800-227-2600
CALL TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
CARLOS R. VILLALOBOS
C.E. 53400
CIVIL
STATE OF CALIFORNIA

KIER & WRIGHT
CIVIL ENGINEERS & SURVEYORS, INC.
2850 Collier Canyon Road (925) 245-8788
Livermore, California 94551 Fax (925) 245-8796

IMPROVEMENT PLANS
ARCH ROAD SANITARY SEWER TRUNK LINE

SANITARY SEWER PROFILE STA 139+00 TO STA 149+00

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

REVISION NO.		DATE	BY	APPROVED

SCALE:	AS SHOWN
DESIGNED BY:	EYS
DRAWN BY:	
CHECKED BY:	CRM
RECORD DWG:	

APPROVED BY: DATE: 4/9/13

ASSISTANT DIRECTOR OF MUNICIPAL UTILITIES

SHEET NO.
10
OF 22 SHEETS
PROJECT NO.
A06680-18

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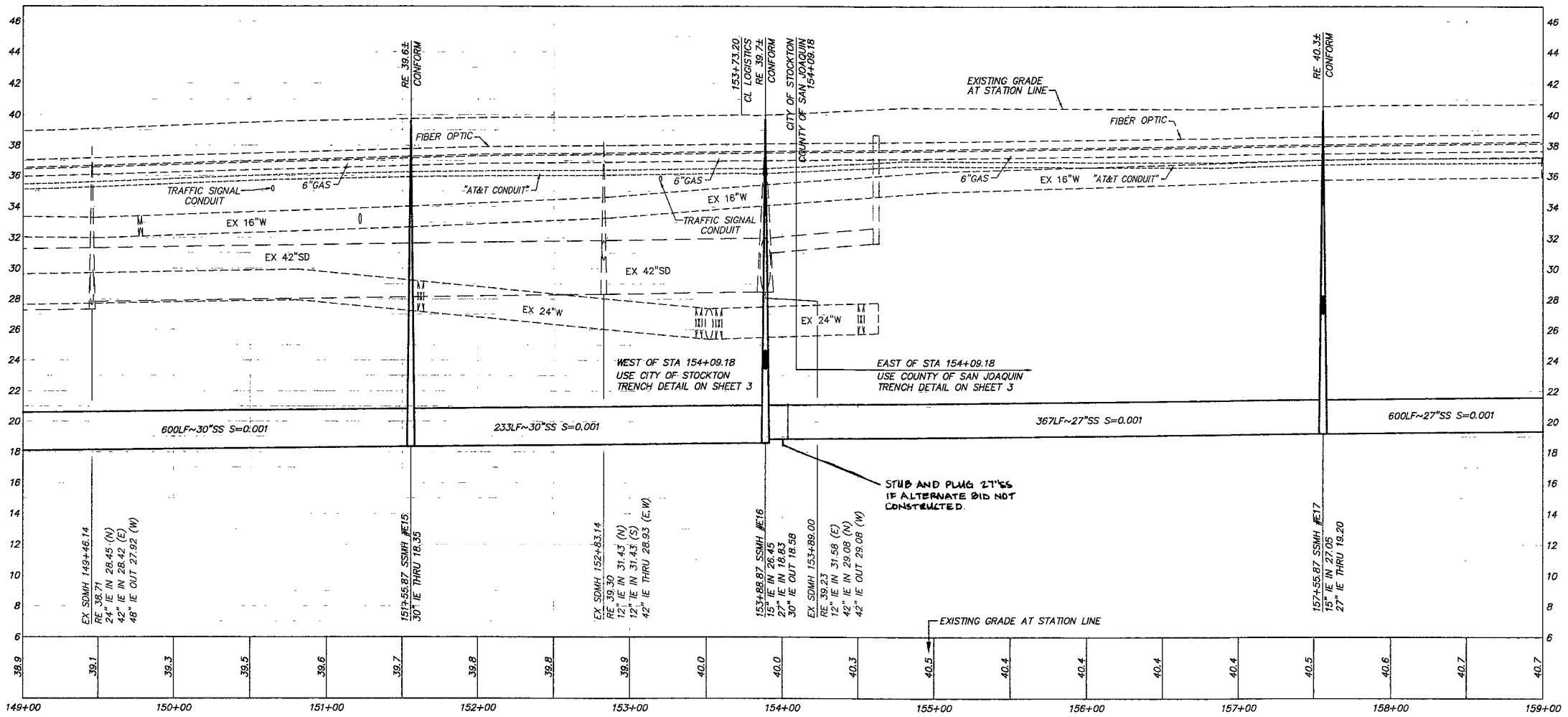
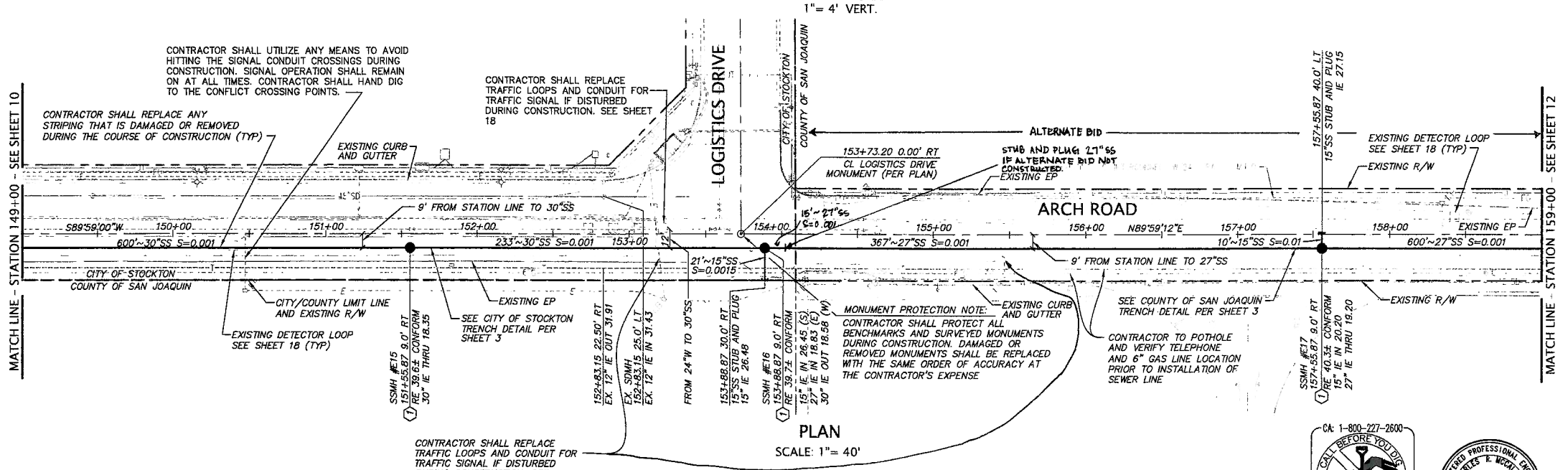


PROFILE

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



PLAN

SCALE: 1"= 40'

KEY NOTES

(1) CONSTRUCT TYPE 1 MAINTENANCE HOLE PER COS STD DRAWING NO. 55

CA: 1-800-227-2600
CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
CALL TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
STANLEY R. MCCALLUM
CIVIL
STATE OF CALIFORNIA

KIER & WRIGHT
CIVIL ENGINEERS & SURVEYORS, INC.
2850 Collier Canyon Road (925) 245-8788
Livermore, California 94551 Fax (925) 245-8796

IMPROVEMENT PLANS
ARCH ROAD SANITARY SEWER TRUNK LINE

SANITARY SEWER PROFILE STA 149+00 TO STA 159+00

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

REVISION NO.		DATE	BY	APPROVED

SCALE: AS SHOWN	APPROVED BY:	DATE: 4/4/13	SHEET NO. 11 OF 22 SHEETS
DESIGNED BY: EYS	ASSISTANT DIRECTOR OF MUNICIPAL UTILITIES		PROJECT NO. A06680-18
DRAWN BY:			
CHECKED BY: CRM			
RECORD DWG:			

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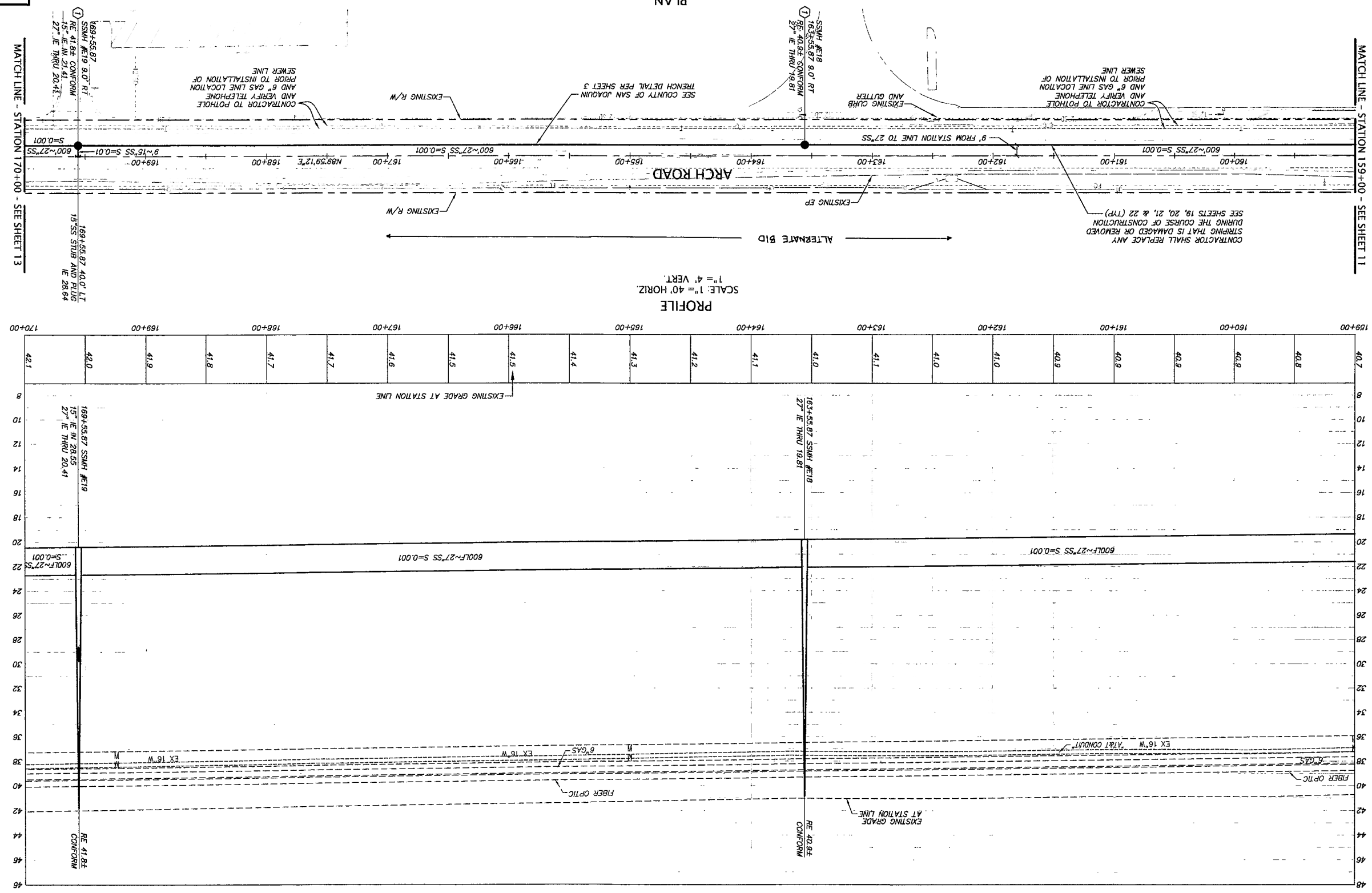


APPROVED FOR SANITARY SEWER ONLY

KIER & WRIGHT
CIVIL ENGINEERS & SURVEYORS, INC.
2850 Collier Canyon Road (925) 245-8788
Livermore, California 94551 Fax (925) 245-8796

IMPROVEMENT PLANS
ARCH ROAD SANITARY SEWER TRUNK LINE
SANITARY SEWER PROFILE STA 159+00 TO STA 170+00

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

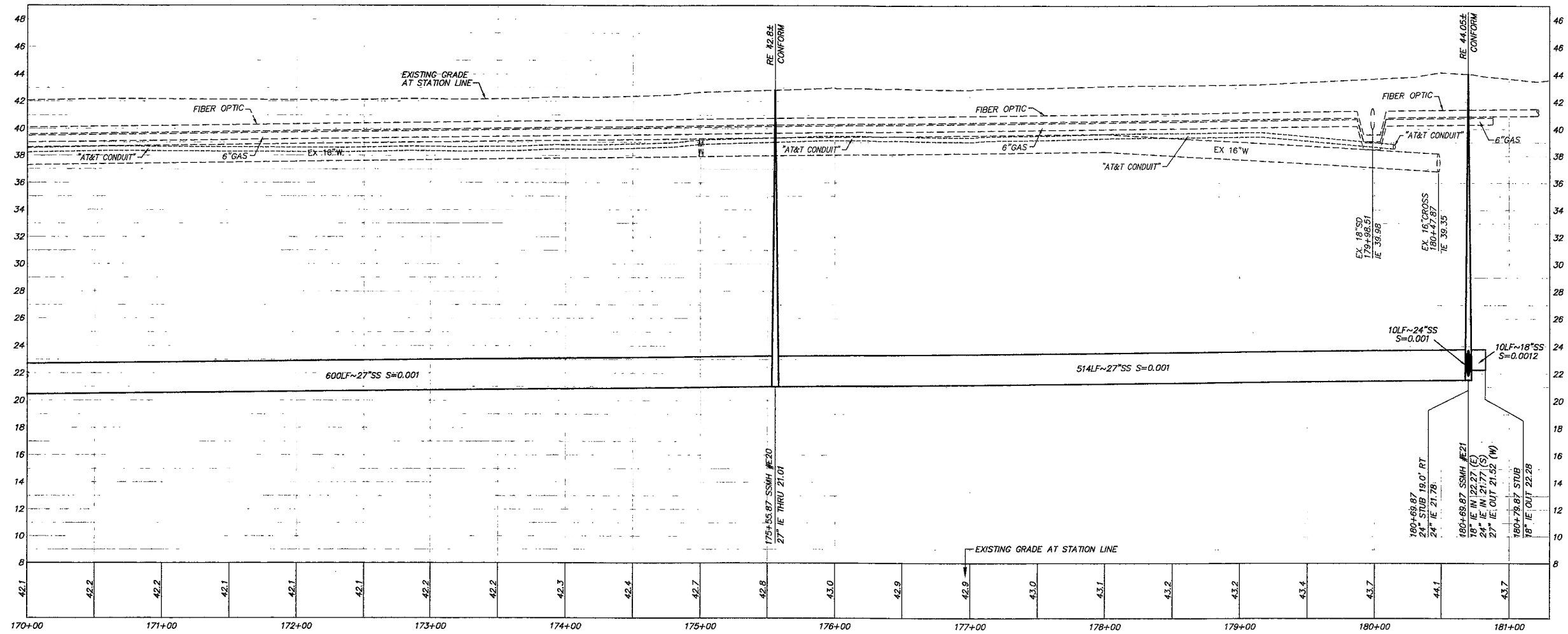
REVISION NO.	DATE	BY	APPROVED

SCALE: AS SHOWN	APPROVED BY:
DESIGNED BY: EYS	DATE: 4/4/13
DRAWN BY:	ASSISTANT DIRECTOR OF MUNICIPAL UTILITIES
CHECKED BY: CRM	
RECORD DWG:	

SHEET NO. 12 OF 22 SHEETS
PROJECT NO. A06680-18

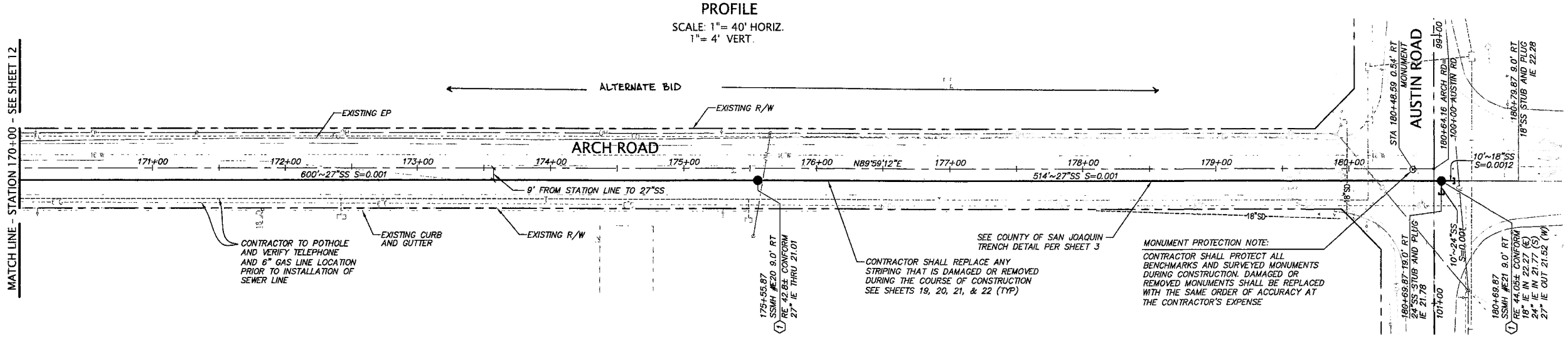
CALL TWO WORKING DAYS BEFORE YOU DIG
CALL 1-800-227-2600
UNDERGROUND SERVICE ALERT
CIVIL STATE OF CALIFORNIA
CHARLES R. MOSER PROFESSIONAL ENGINEER

5191.11C



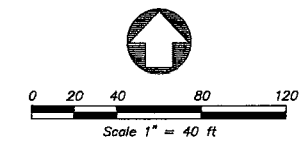
PROFILE

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



PLAN

SCALE: 1"= 40'



KEY NOTES

1. CONSTRUCT TYPE 1 MAINTENANCE HOLE PER COS STD DRAWING NO. 55

APPROVED FOR SANITARY SEWER ONLY

KIER & WRIGHT
CIVIL ENGINEERS & SURVEYORS, INC.
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CA: 1-800-227-2600 CALL BEFORE YOU DIG UNDERGROUND SERVICE ALERT CA: 1-800-227-2600 CALL TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER CHARLES R. MCCALL CIVIL STATE OF CALIFORNIA

IMPROVEMENT PLANS
ARCH ROAD SANITARY SEWER TRUNK LINE

SANITARY SEWER PROFILE STA 170+00 TO STA 181+00

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

REVISION NO.		DATE	BY	APPROVED

SCALE: AS SHOWN	APPROVED BY:	DATE: 4/4/13	SHEET NO. 13 OF 22 SHEETS
DESIGNED BY: EYS	ASSISTANT DIRECTOR OF MUNICIPAL UTILITIES		PROJECT NO. A06680-18
DRAWN BY:			
CHECKED BY: CRM			
RECORD DWG:			

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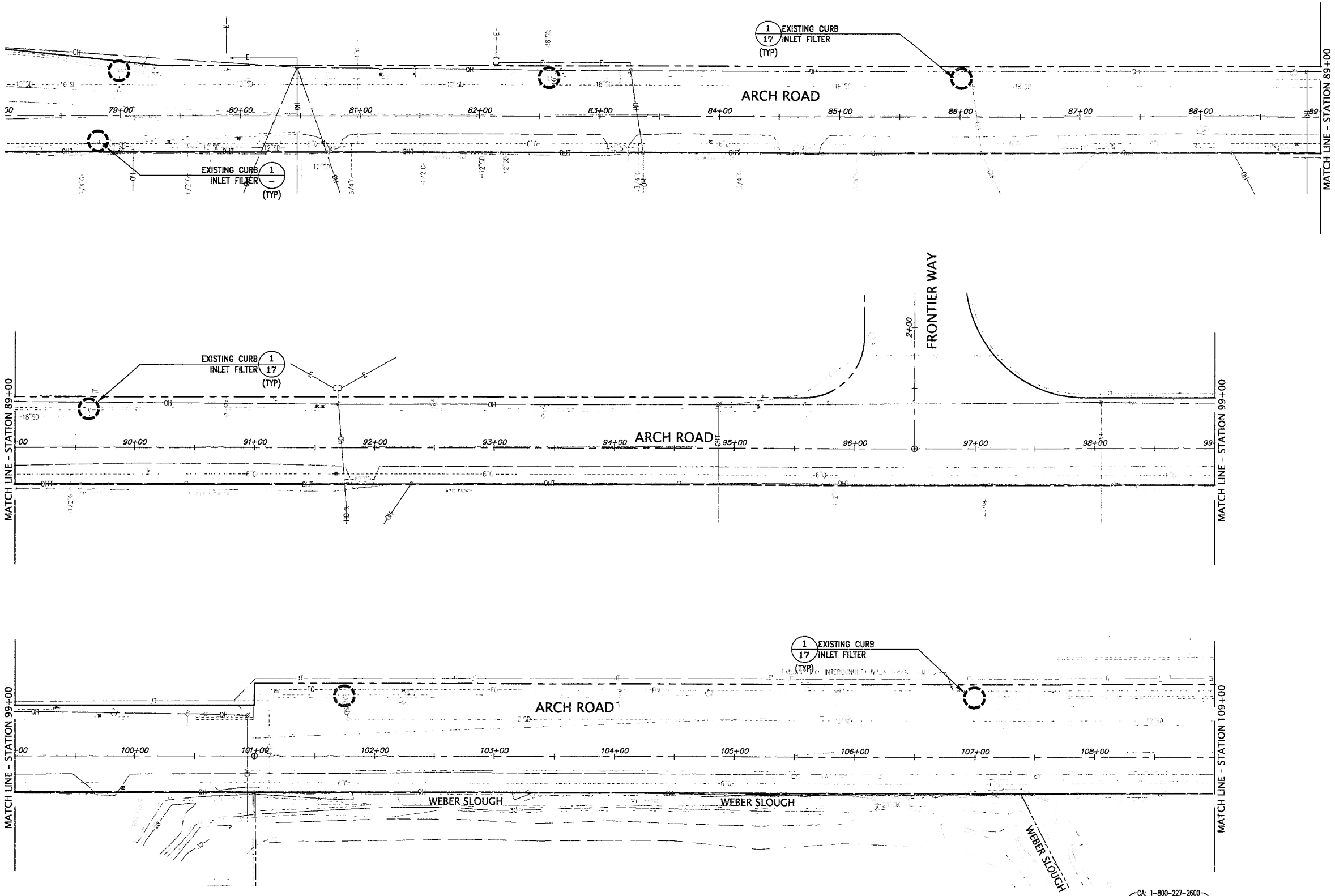

0 20 40 80 120

Scale 1" = 40 ft

LEGEND

1/17 EXISTING CURB INLET FILTER

KIER & WRIGHT
CIVIL ENGINEERS & SURVEYORS, INC.
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Livermore, California 94551 Fax (925) 245-8796

IMPROVEMENT PLANS

ARCH ROAD SANITARY SEWER TRUNK LINE

EROSION CONTROL STA 79+00 TO STA 109+00

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

CA: 1-800-227-2600 CALL BEFORE YOU DIG UNDERGROUND SERVICE ALERT CA: 1-800-227-2600 CALL TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER CHARLES K. WRIGHT No. 53447 CIVIL STATE OF CALIFORNIA

REVISION NO.		DATE	BY	APPROVED

SCALE: AS SHOWN	APPROVED BY:	DATE: 4/4/13	SHEET NO. 14 OF 22 SHEETS
DESIGNED BY: EYS	FOR REFERENCE ONLY		PROJECT NO. A06680-18
DRAWN BY:			
CHECKED BY: CRM	ASSISTANT DIRECTOR OF MUNICIPAL UTILITIES		
RECORD DWG:			

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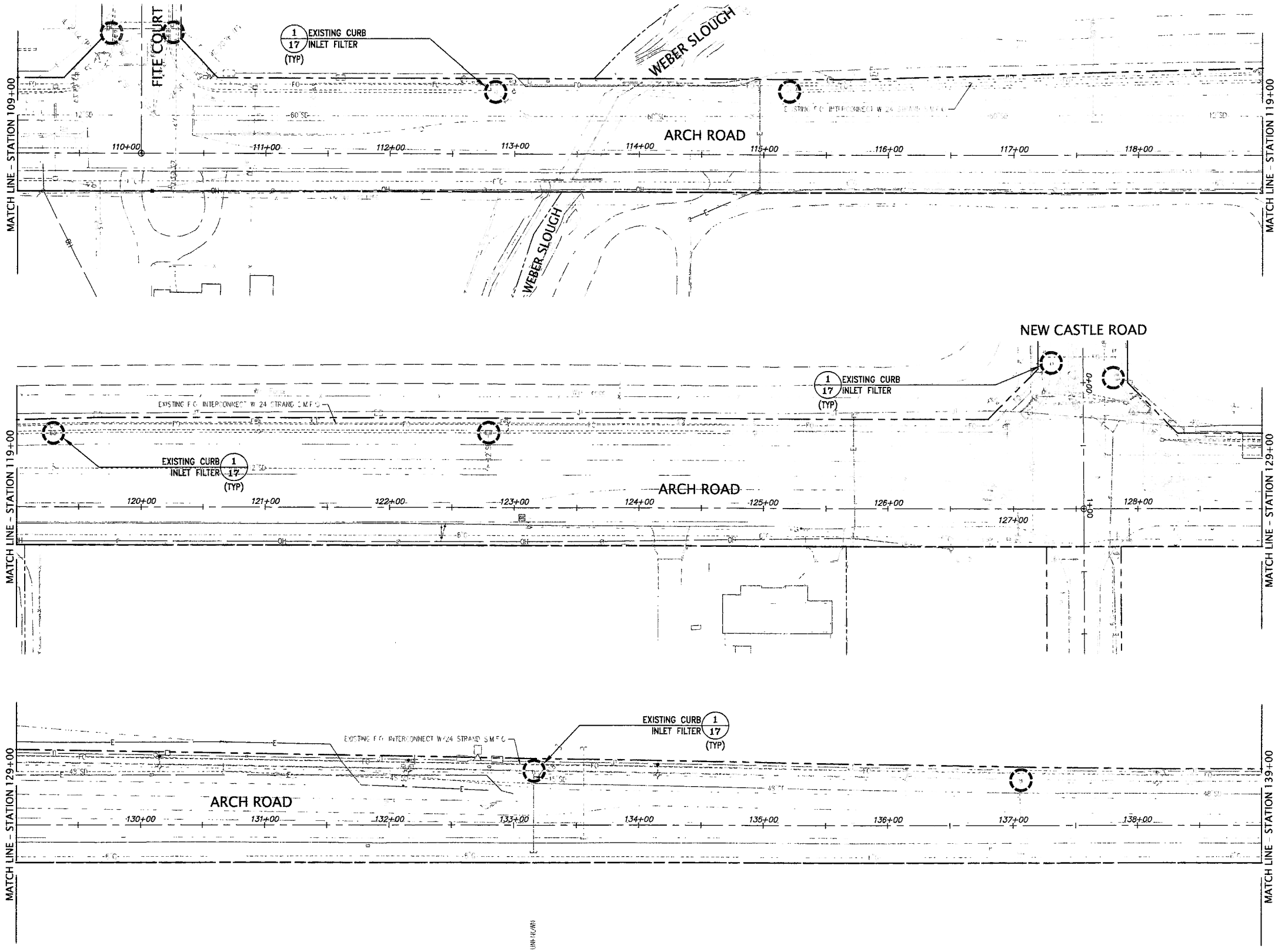

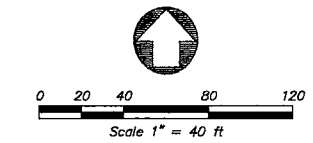

LEGEND

EXISTING CURB INLET FILTER 1/17

CA: 1-800-227-2600
CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
CALL TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
CHARLES R. WRIGHT
No. 34[illegible]
CIVIL
STATE OF CALIFORNIA

KIER & WRIGHT
CIVIL ENGINEERS & SURVEYORS, INC.
2850 Collier Canyon Road (925) 245-8788
Livermore, California 94551 Fax (925) 245-8796

IMPROVEMENT PLANS
ARCH ROAD SANITARY SEWER TRUNK LINE

EROSION CONTROL STA 109+00 TO STA 139+00

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

REVISION NO.		DATE	BY	APPROVED

SCALE: AS SHOWN	APPROVED BY:	DATE:	SHEET NO. 15 OF 22 SHEETS
DESIGNED BY: EYS	FOR REFERENCE ONLY		PROJECT NO. A06680-18
DRAWN BY:			
CHECKED BY: CRM	ASSISTANT DIRECTOR OF MUNICIPAL UTILITIES		
RECORD DWG:			

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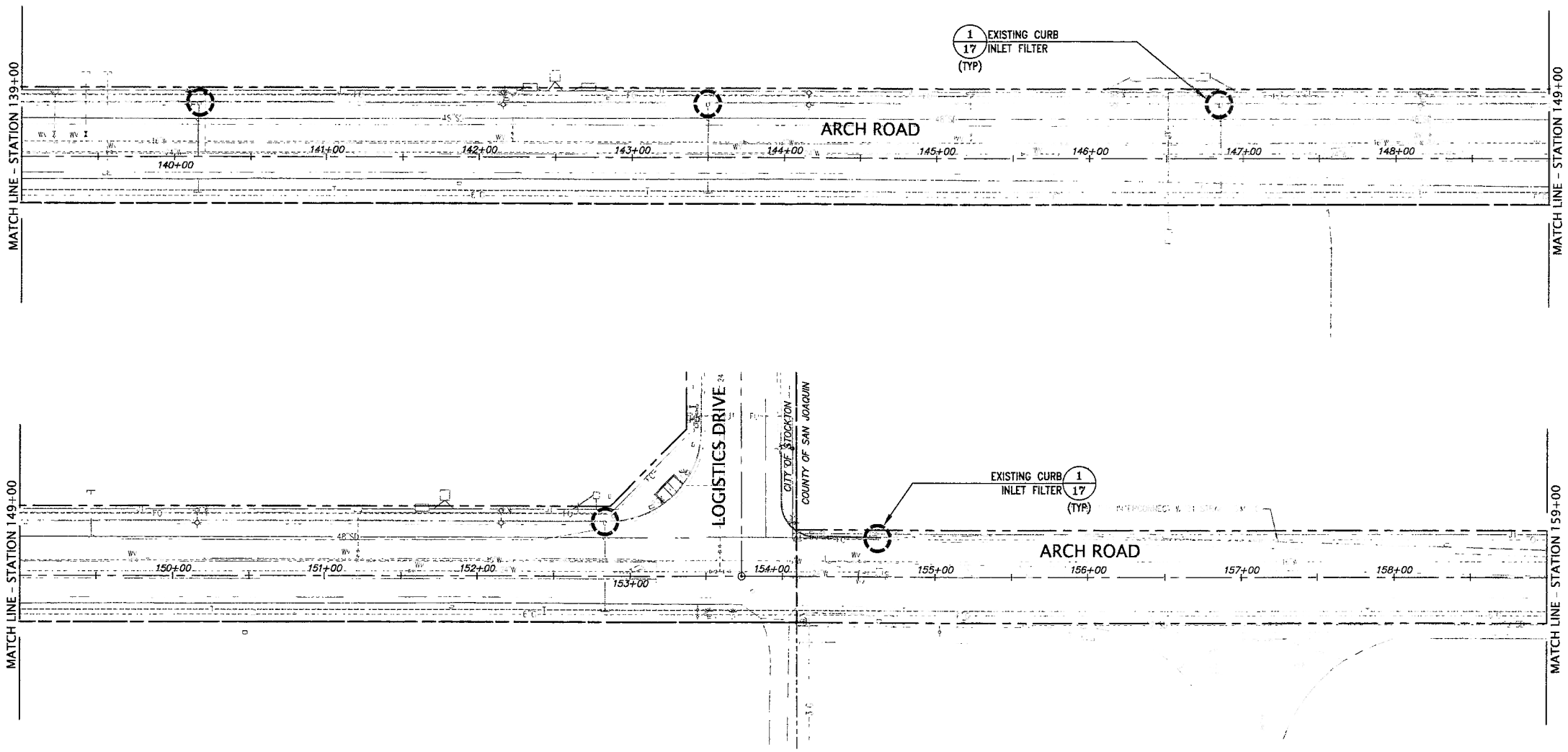
Scale 1" = 40 ft

LEGEND

EXISTING CURB INLET FILTER (1/17)



CA: 1-800-227-2600
CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
CA: 1-800-227-2600
CALL TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
CHARLES K. WICKLAND
CIVIL
STATE OF CALIFORNIA

KIER & WRIGHT
CIVIL ENGINEERS & SURVEYORS, INC.
2850 Collier Canyon Road (925) 245-8788
Livermore, California 94551 Fax (925) 245-8796

IMPROVEMENT PLANS
ARCH ROAD SANITARY SEWER TRUNK LINE

EROSION CONTROL STA 139+00 TO STA 159+00

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

REVISION NO.		DATE	BY	APPROVED

SCALE: AS SHOWN	APPROVED BY: DATE:	SHEET NO. 16 OF 22 SHEETS
DESIGNED BY: EYS	FOR REFERENCE ONLY	PROJECT NO. A06680-18
DRAWN BY:		
CHECKED BY: CRW	ASSISTANT DIRECTOR OF MUNICIPAL UTILITIES	
RECORD DWG:		

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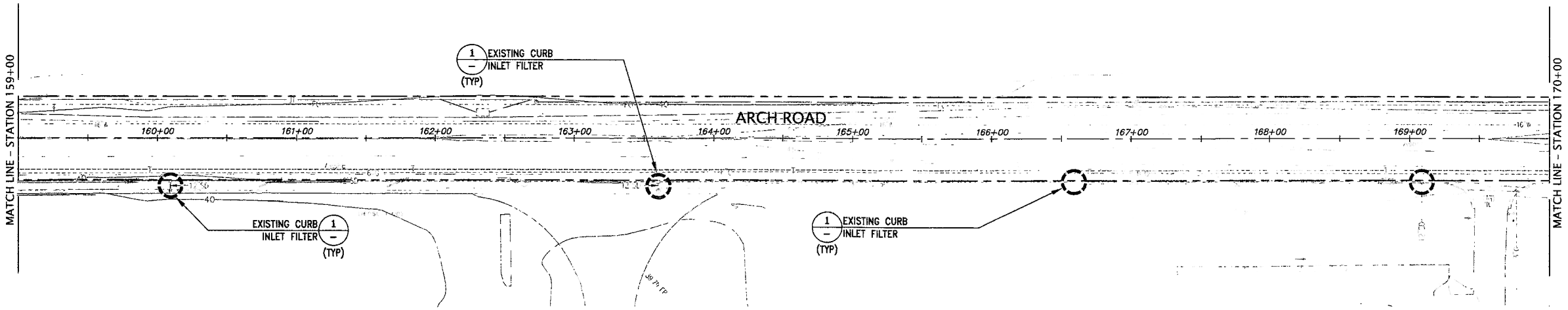
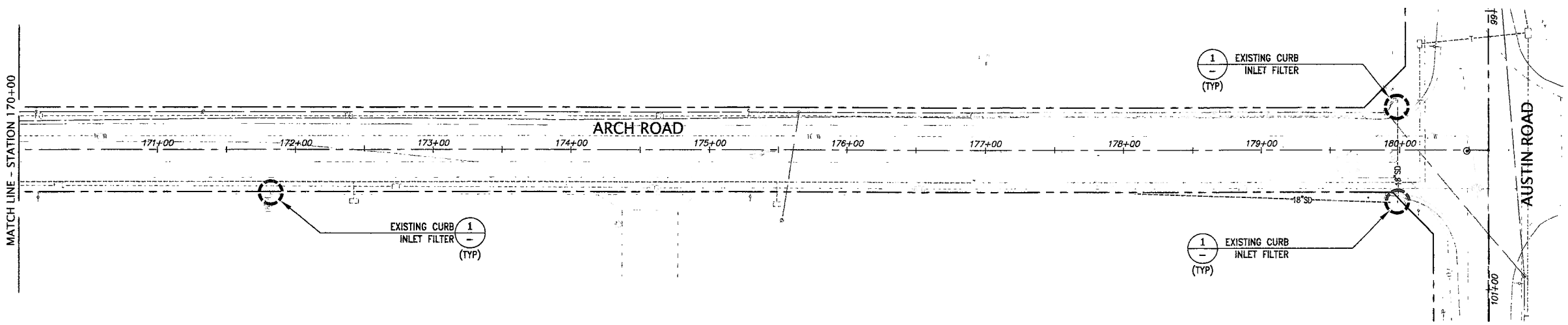
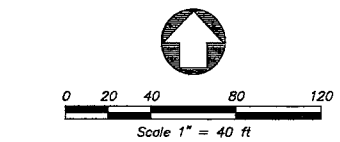
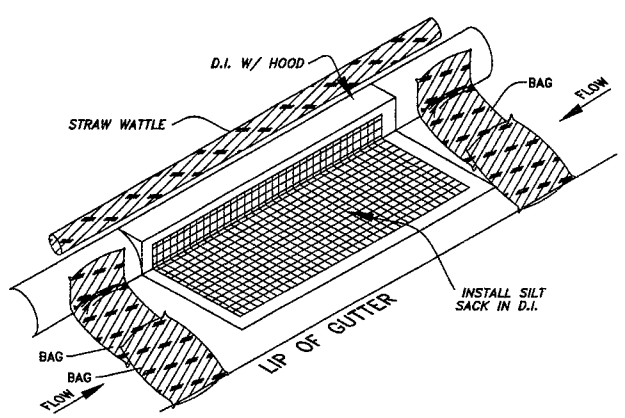






LEGEND

EXISTING CURB INLET FILTER



EXISTING CURB INLET FILTER DETAIL 1

NOT TO SCALE

CA: 1-800-227-2600 CALL BEFORE YOU DIG UNDERGROUND SERVICE ALERT CA: 1-800-227-2600 CALL TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER JAMES K. MCCALL CIVIL STATE OF CALIFORNIA

KIER & WRIGHT
CIVIL ENGINEERS & SURVEYORS, INC.
2850 Collier Canyon Road (925) 245-8788
Livermore, California 94551 Fax (925) 245-8796

IMPROVEMENT PLANS
ARCH ROAD SANITARY SEWER TRUNK LINE

EROSION CONTROL STA 159+00 TO STA 181+00

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

REVISION NO.		DATE	BY	APPROVED

SCALE: AS SHOWN
DESIGNED BY: EYS
DRAWN BY:
CHECKED BY: CRM
RECORD DWG:

APPROVED BY: DATE:

FOR REFERENCE ONLY
ASSISTANT DIRECTOR OF MUNICIPAL UTILITIES

SHEET NO. 17 OF 22 SHEETS
PROJECT NO. A06680-18

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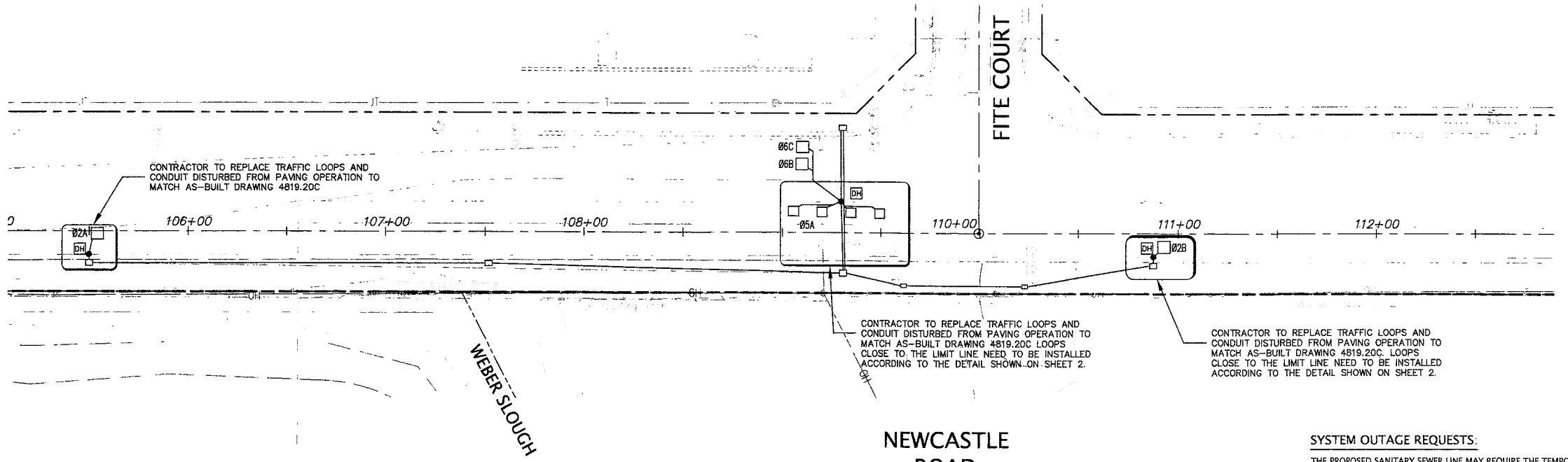

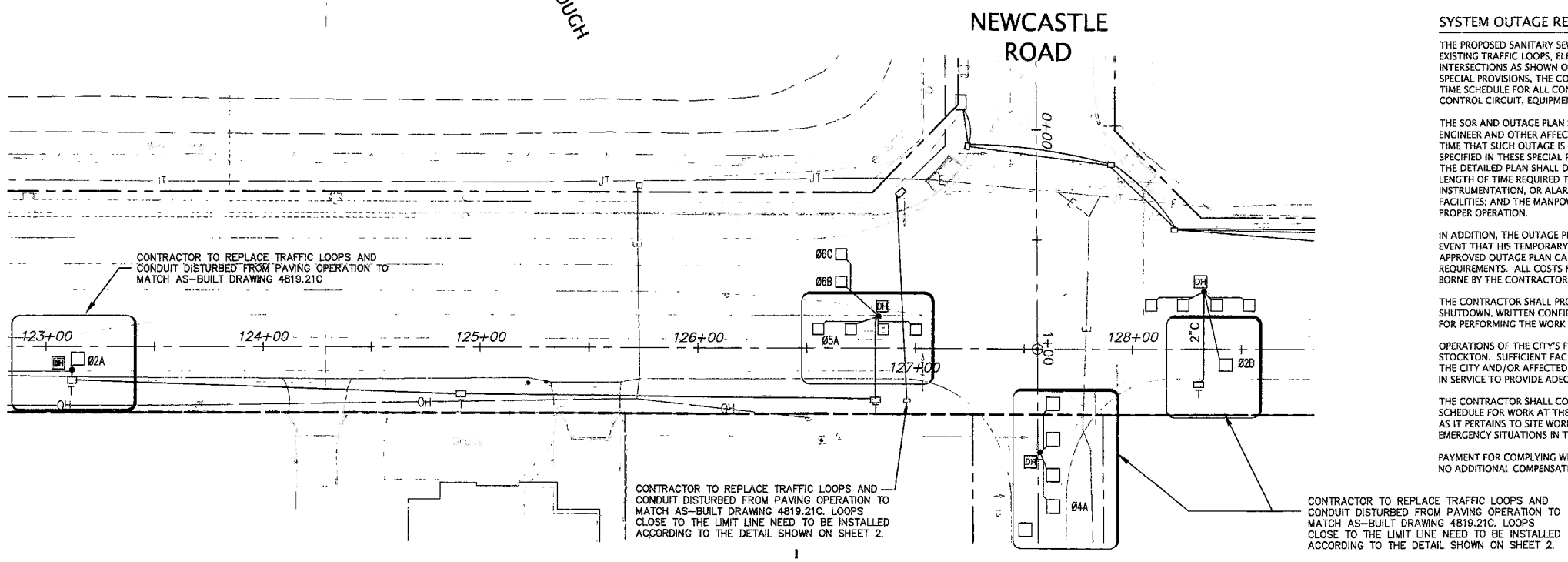

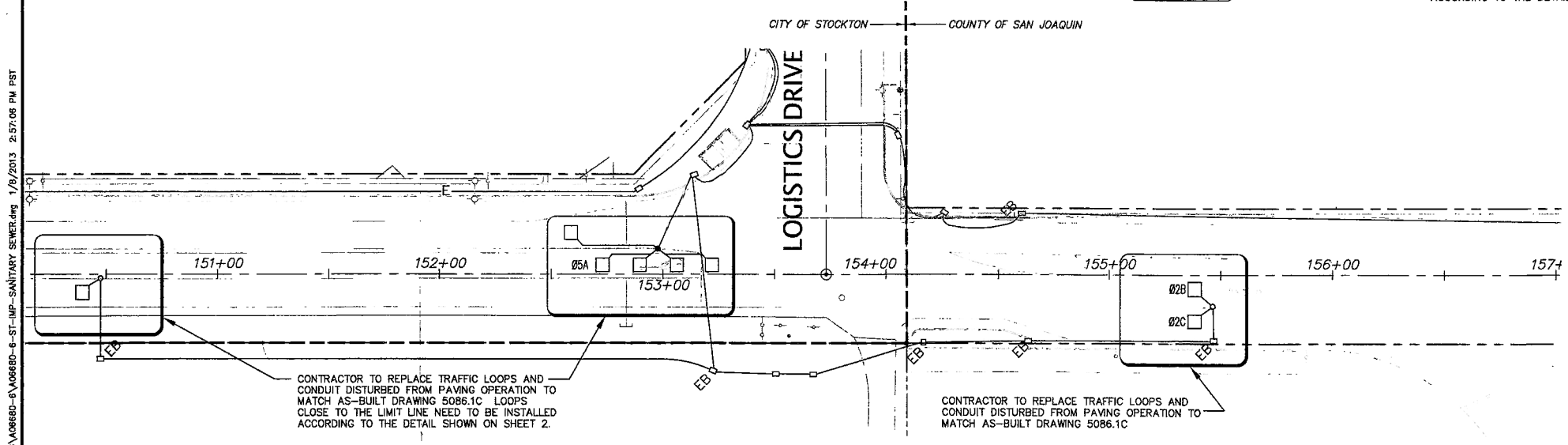

0 15 30 60 90
Scale 1" = 30 ft

NOTE:
CONTRACTOR SHALL UTILIZE ANY MEANS TO AVOID HITTING THE SIGNAL CONDUIT CROSSINGS DURING CONSTRUCTION. SIGNAL OPERATION SHALL REMAIN ON AT ALL TIMES. CONTRACTOR SHALL HAND DIG TO THE CONFLICT CROSSING POINTS.

SYSTEM OUTAGE REQUESTS:

THE PROPOSED SANITARY SEWER LINE MAY REQUIRE THE TEMPORARY OUTAGE OR REMOVAL AND REPLACEMENT OF THE EXISTING TRAFFIC LOOPS, ELECTRICAL CIRCUITS, CONTROL CIRCUITS, OR OTHER FACILITIES AT THE ARCH ROAD INTERSECTIONS AS SHOWN ON THESE PLANS. IN ADDITION TO THE CONSTRUCTION SCHEDULE REQUIRED UNDER THESE SPECIAL PROVISIONS, THE CONTRACTOR SHALL SUBMIT A SYSTEM OUTAGE REQUEST (SOR) AND A DETAILED OUTAGE PLAN AND TIME SCHEDULE FOR ALL CONSTRUCTION ACTIVITIES, WHICH WILL MAKE IT NECESSARY TO REMOVE AN ELECTRICAL CIRCUIT, CONTROL CIRCUIT, EQUIPMENT, STRUCTURE, ROAD, OR OTHER FACILITIES FROM SERVICE.

THE SOR AND OUTAGE PLAN SHALL BE SUBMITTED AND PREPARED IN CONJUNCTION WITH THE TRAFFIC CONTROL PLAN TO THE ENGINEER AND OTHER AFFECTED UTILITIES FOR REVIEW AND ACCEPTANCE A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF THE TIME THAT SUCH OUTAGE IS NEEDED. THE OUTAGE PLAN SHALL BE COORDINATED WITH THE CONSTRUCTION SCHEDULE SPECIFIED IN THESE SPECIAL PROVISIONS AND SHALL MEET THE RESTRICTIONS AND CONDITIONS SPECIFIED IN THIS SECTION. THE DETAILED PLAN SHALL DESCRIBE THE CONTRACTOR'S METHOD FOR PREVENTING BYPASSING OF OTHER FACILITIES; THE LENGTH OF TIME REQUIRED TO COMPLETE SAID OPERATION; ANY NECESSARY TEMPORARY POWER, CONTROLS, INSTRUMENTATION, OR ALARMS REQUIRED TO MAINTAIN CONTROL, MONITORING, AND ALARMS FOR THE AFFECTED FACILITIES; AND THE MANPOWER, PLANT, AND EQUIPMENT WHICH THE CONTRACTOR SHALL PROVIDE IN ORDER TO ENSURE PROPER OPERATION.

IN ADDITION, THE OUTAGE PLAN SHALL DESCRIBE THE CONTRACTOR'S CONTINGENCY PLAN THAT SHALL BE INITIATED IN THE EVENT THAT HIS TEMPORARY FACILITIES FAIL, OR IT BECOMES APPARENT THAT THE TIME CONSTRAINTS DESCRIBED IN THE APPROVED OUTAGE PLAN CANNOT BE MET. THE CONTINGENCY PLAN SHALL CONFORM TO ALL SPECIFIED OUTAGE REQUIREMENTS. ALL COSTS FOR PREPARING AND IMPLEMENTING BOTH THE OUTAGE AND CONTINGENCY PLANS SHALL BE BORNE BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION THEREFORE.

THE CONTRACTOR SHALL PROVIDE, MONDAY THROUGH FRIDAY, AT LEAST TWO (2) WORKING DAYS PRIOR TO THE ACTUAL SHUTDOWN, WRITTEN CONFIRMATION OF THE SHUTDOWN DATE AND TIME, OR WRITTEN NOTIFICATION THAT THE SCHEDULE FOR PERFORMING THE WORK HAS CHANGED, OR REVISIONS TO THE OUTAGE PLAN ARE REQUIRED.

OPERATIONS OF THE CITY'S FACILITIES AND UTILITIES ARE CRITICAL TO THE PUBLIC HEALTH AND SAFETY OF THE CITIZENS OF STOCKTON. SUFFICIENT FACILITIES TO SERVE THE NEEDS AND DEMANDS OF THE CITY SHALL REMAIN IN SERVICE AT ALL TIMES. THE CITY AND/OR AFFECTED UTILITY OWNER SHALL BE THE SOLE JUDGE OF ITS NEEDS AND THE FACILITIES THAT MUST REMAIN IN SERVICE TO PROVIDE ADEQUATE SERVICE

THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE CITY AND UTILITIES TO ESTABLISH THE CONTRACTOR'S SCHEDULE FOR WORK AT THE ENTIRE PROJECT FACILITIES. THE APPROVED PROJECT SCHEDULE SHALL BE SUBJECT TO CHANGE, AS IT PERTAINS TO SITE WORK AND SHUTDOWNS, WHEN REQUIRED BY THE CITY/UTILITIES TO ACCOMMODATE UNFORESEEN OR EMERGENCY SITUATIONS IN THE OPERATION OF THE AFFECTED FACILITIES.

PAYMENT FOR COMPLYING WITH THIS SPECIAL PROVISION SHALL BE INCLUDED IN THE VARIOUS OTHER ITEMS OF WORK, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED THEREFORE.

CA: 1-800-227-2600
CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
CA: 1-800-227-2600
CALL TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
CHARLES R. MCCALL
No. 54
CIVIL
STATE OF CALIFORNIA

KIER & WRIGHT
CIVIL ENGINEERS & SURVEYORS, INC.
2850 Collier Canyon Road (925) 245-8788
Livermore, California 94551 Fax (925) 245-8796

IMPROVEMENT PLANS
ARCH ROAD SANITARY SEWER TRUNK LINE
TRAFFIC LOOP REPAIR PLAN

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

REVISION NO.		DATE	BY	APPROVED

SCALE:	AS SHOWN	APP
DESIGNED BY:	EYS	
DRAWN BY:		
CHECKED BY:	CRM	
RECORD DWG:		

FOR REFERENCE ONLY
UTILITIES

SHEET NO.
18
OF 22 SHEETS
PROJECT NO.
A06680-18

5191.17C

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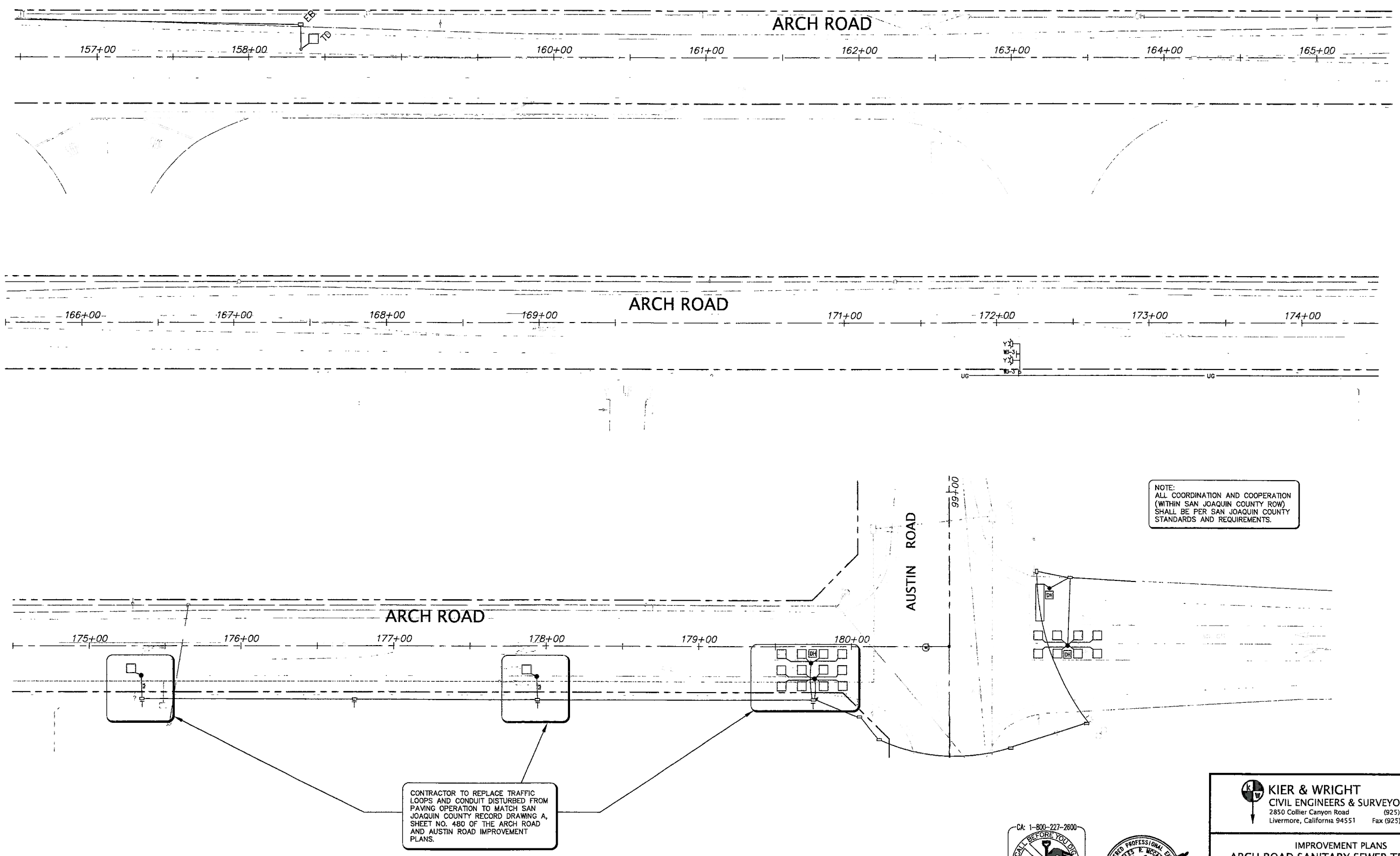
0 15 30 60 90
Scale 1" = 30 ft



NOTE:
ALL COORDINATION AND COOPERATION (WITHIN SAN JOAQUIN COUNTY ROW) SHALL BE PER SAN JOAQUIN COUNTY STANDARDS AND REQUIREMENTS.

CONTRACTOR TO REPLACE TRAFFIC LOOPS AND CONDUIT DISTURBED FROM PAVING OPERATION TO MATCH SAN JOAQUIN COUNTY RECORD DRAWING A, SHEET NO. 480 OF THE ARCH ROAD AND AUSTIN ROAD IMPROVEMENT PLANS.

CA: 1-800-227-2600
CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
CA: 1-800-227-2600
CALL TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
CIVIL

KIER & WRIGHT
CIVIL ENGINEERS & SURVEYORS, INC.
2850 Collier Canyon Road (925) 245-8788
Livermore, California 94551 Fax (925) 245-8796

IMPROVEMENT PLANS
ARCH ROAD SANITARY SEWER TRUNK LINE

TRAFFIC LOOP REPAIR PLAN

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

REVISION NO.		DATE	BY	APPROVED

SCALE: AS SHOWN	APPROVED BY:	DATE: 4/4/13	SHEET NO. 19
DESIGNED BY: EYS	FOR REFERENCE ONLY		OF 22 SHEETS
DRAWN BY:			PROJECT NO.
CHECKED BY: CRM	ASSISTANT DIRECTOR OF MUNICIPAL UTILITIES		A06680-18
RECORD DWG:			

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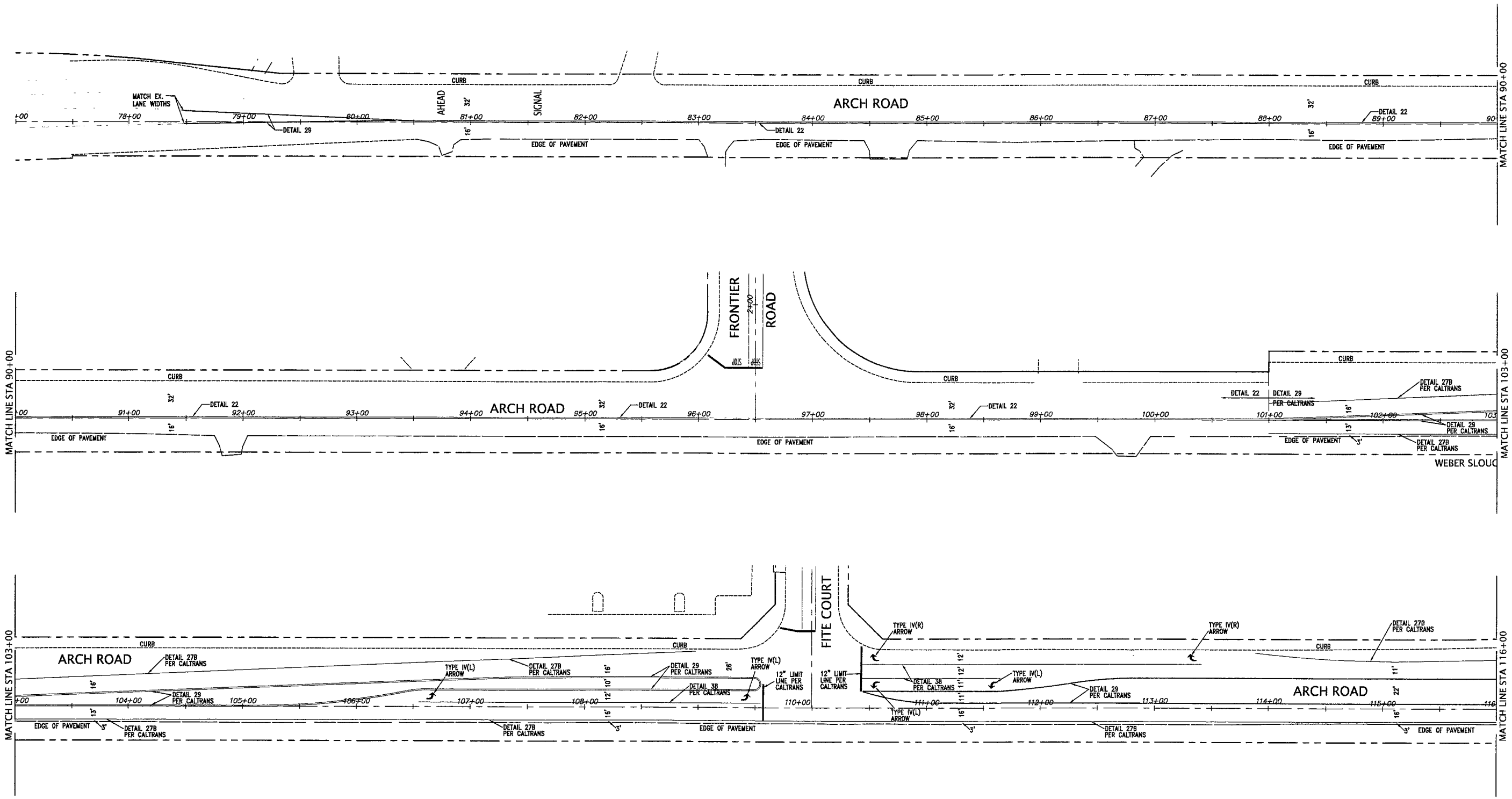

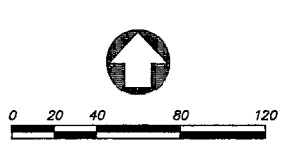

EXISTING STRIPING PLAN REPRESENTS THE EXISTING AS-BUILT CONDITIONS AT THE TIME THESE PLANS WERE PREPARED. STRIPING MAY VARY FROM THESE PLANS AT THE TIME OF CONSTRUCTION. CONTRACTOR TO DOCUMENT EXISTING STRIPING CONDITIONS WITH PHOTOGRAPHS AND/OR VIDEO TO PROVIDE TO CITY INSPECTOR PRIOR TO CONSTRUCTION CONTRACTOR SHALL REPLACE ANY DAMAGED STRIPING OR STRIPING REMOVED DURING THE COURSE OF CONSTRUCTION. CONTRACTOR IS NOT REQUIRED TO REPLACE STRIPING THAT IS DAMAGED PRIOR TO CONSTUCTION.

CA: 1-800-227-2600 CALL BEFORE YOU DIG UNDERGROUND SERVICE ALERT CA: 1-800-227-2600 CALL TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER CHARLES R. WEGLEY CIVIL STATE OF CALIFORNIA

KIER & WRIGHT
CIVIL ENGINEERS & SURVEYORS, INC.
2850 Collier Canyon Road (925) 245-8788
Livermore, California 94551 Fax (925) 245-8796

IMPROVEMENT PLANS
ARCH ROAD SANITARY SEWER TRUNK LINE

EXISTING STRIPING PLANS STA 78+50 TO STA 116+00

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

REVISION NO.		DATE	BY	APPROVED

SCALE:	
DESIGNED BY:	EYS
DRAWN BY:	
CHECKED BY:	CRM
RECORD DWG:	

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FOR REFERENCE ONLY
ASSISTANT DIRECTOR OF MUNICIPAL UTILITIES

SHEET NO.	20
OF 22 SHEETS	
PROJECT NO.	A06680-18

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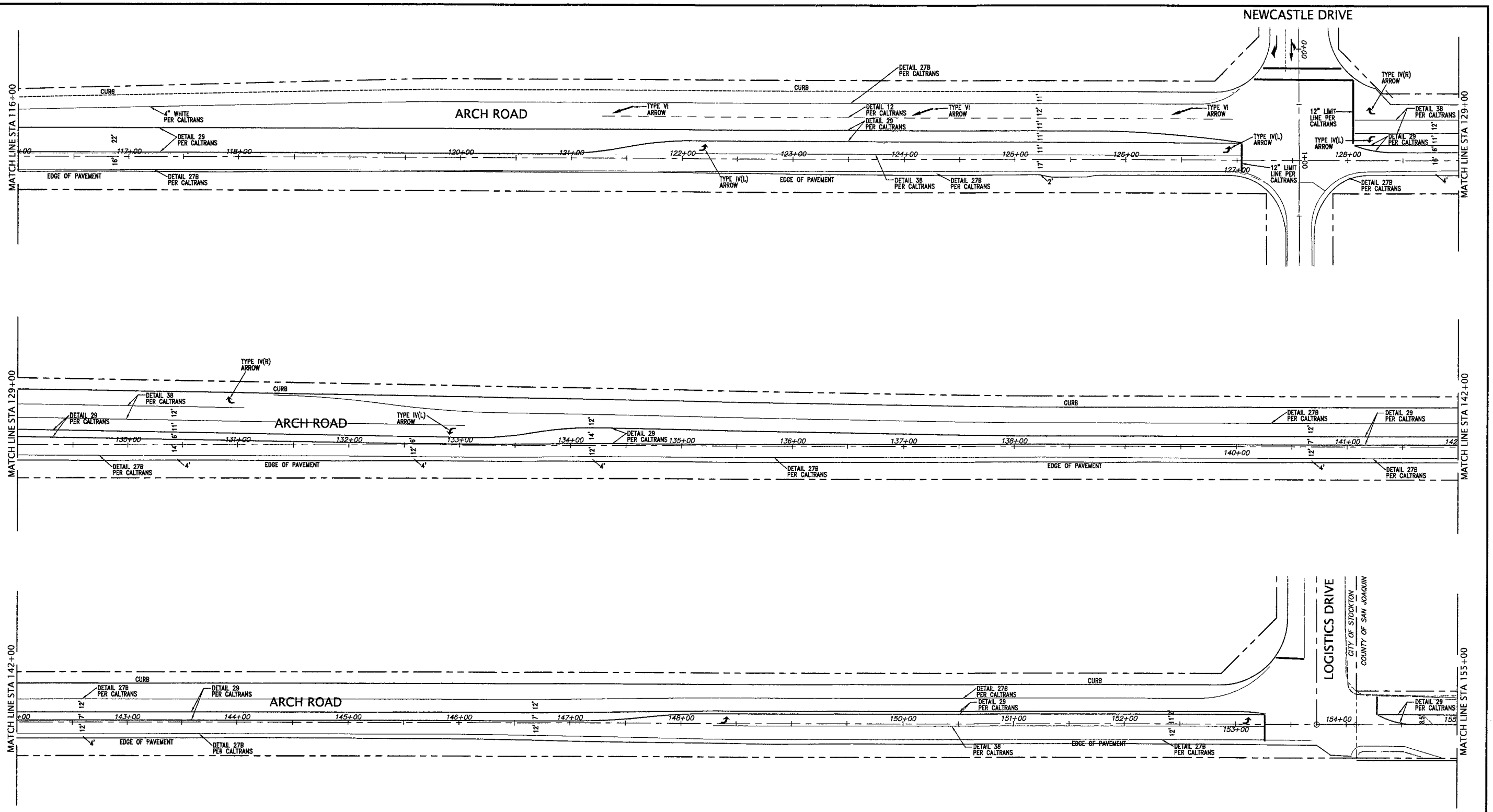

EXISTING STRIPING PLAN REPRESENTS THE EXISTING AS-BUILT CONDITIONS AT THE TIME THESE PLANS WERE PREPARED. STRIPING MAY VARY FROM THESE PLANS AT THE TIME OF CONSTRUCTION. CONTRACTOR TO DOCUMENT EXISTING STRIPING CONDITIONS WITH PHOTOGRAPHS AND/OR VIDEO TO PROVIDE TO CITY INSPECTOR PRIOR TO CONSTRUCTION CONTRACTOR SHALL REPLACE ANY DAMAGED STRIPING OR STRIPING REMOVED DURING THE COURSE OF CONSTRUCTION. CONTRACTOR IS NOT REQUIRED TO REPLACE STRIPING THAT IS DAMAGED PRIOR TO CONSTUCTION.

0 20 40 80 120
Scale 1" = 40 ft

CA: 1-800-227-2600
CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
CA: 1-800-227-2600
CALL TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
FRANKLIN T. MORALES
CIVIL
STATE OF CALIFORNIA

KIER & WRIGHT
CIVIL ENGINEERS & SURVEYORS, INC.
2850 Collier Canyon Road (925) 245-8788
Livermore, California 94551 Fax (925) 245-8796

IMPROVEMENT PLANS
ARCH ROAD SANITARY SEWER TRUNK LINE
EXISTING STRIPING PLANS STA 116+00 TO STA 155+00

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

REVISION NO.		DATE	BY	APPROVED

SCALE:	
DESIGNED BY:	EYS
DRAWN BY:	
CHECKED BY:	CRM
RECORD DWG:	

APP

FOR REFERENCE ONLY

ASSISTANT DIRECTOR OF MUNICIPAL UTILITIES

SHEET NO.
21
OF 22 SHEETS
PROJECT NO.
A06680-18

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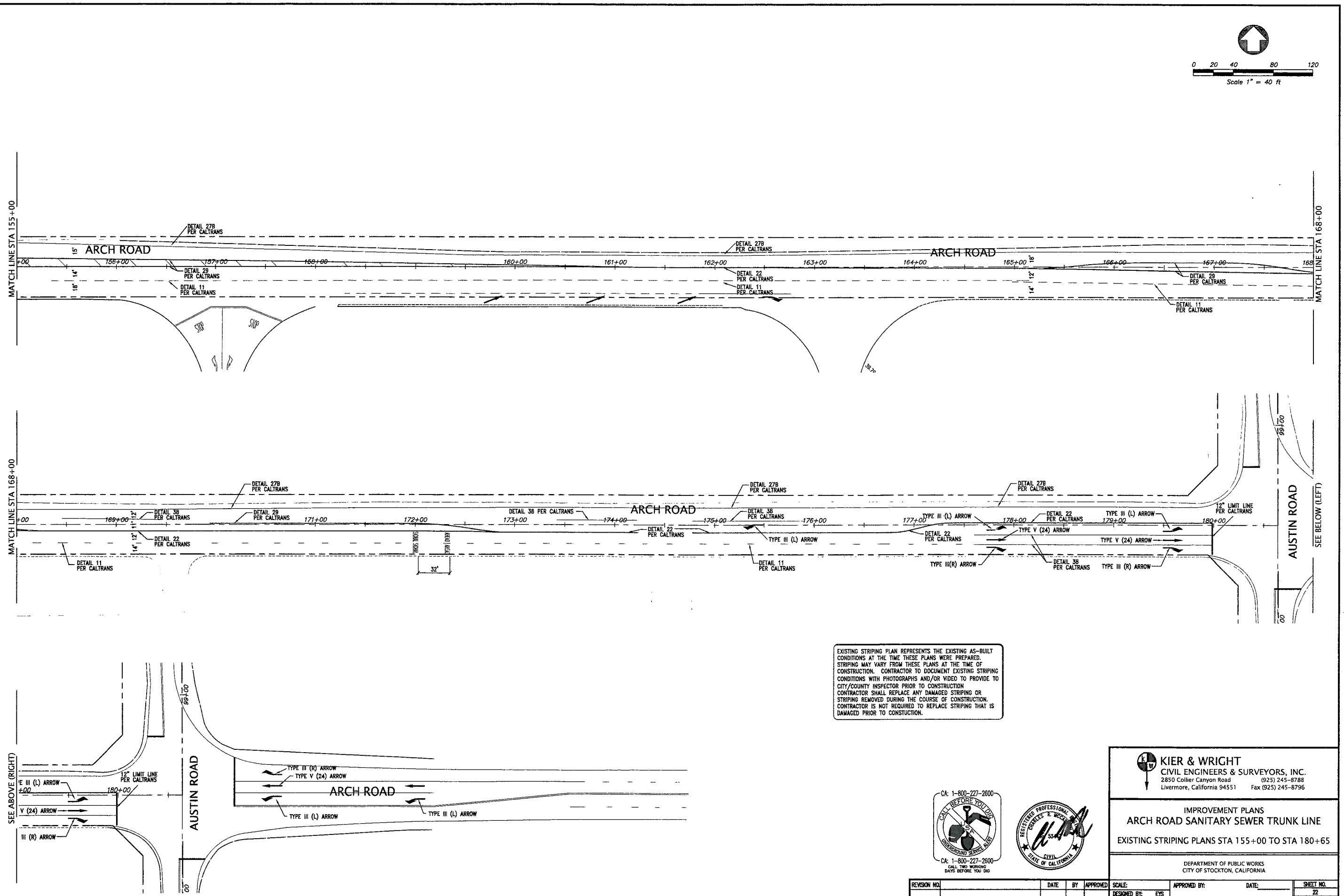

EXISTING STRIPING PLAN REPRESENTS THE EXISTING AS-BUILT CONDITIONS AT THE TIME THESE PLANS WERE PREPARED. STRIPING MAY VARY FROM THESE PLANS AT THE TIME OF CONSTRUCTION. CONTRACTOR TO DOCUMENT EXISTING STRIPING CONDITIONS WITH PHOTOGRAPHS AND/OR VIDEO TO PROVIDE TO CITY/COUNTY INSPECTOR PRIOR TO CONSTRUCTION CONTRACTOR SHALL REPLACE ANY DAMAGED STRIPING OR STRIPING REMOVED DURING THE COURSE OF CONSTRUCTION. CONTRACTOR IS NOT REQUIRED TO REPLACE STRIPING THAT IS DAMAGED PRIOR TO CONSTUCTION.

CA: 1-800-227-2600 CALL BEFORE YOU DIG UNDERGROUND SERVICE ALERT CA: 1-800-227-2600 CALL TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER CHARLES R. MOORE CIVIL STATE OF CALIFORNIA

KIER & WRIGHT
CIVIL ENGINEERS & SURVEYORS, INC.
2850 Collier Canyon Road (925) 245-8788
Livermore, California 94551 Fax (925) 245-8796

IMPROVEMENT PLANS
ARCH ROAD SANITARY SEWER TRUNK LINE
EXISTING STRIPING PLANS STA 155+00 TO STA 180+65

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

REVISION NO.		DATE	BY	APPROVED

SCALE:	APPROVED BY: DATE:	SHEET NO. 22 OF 22 SHEETS
DESIGNED BY: EYS	FOR REFERENCE ONLY	PROJECT NO. A06680-18
DRAWN BY:		
CHECKED BY: CRM	ASSISTANT DIRECTOR OF MUNICIPAL UTILITIES	
RECORD DWG:		

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