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-0901100**
Date Issued: 09/27/2010
Exp. Date: 12/17/2010
Project No: PWP110005
Quad: SE

UE/CR/PM NO:PWP760513

ENCROACHMENT PERMIT

To: CITY OF STOCKTON
425 N. EL DORADO ST.
STOCKTON, CA 95202

Encroachment Type:

Trench	Bore (over 6 inch Dia)	Bell Hole	

Location:
WOLFE RD. S/O FRENCH CAMP RD. TO HONOR FARM

In compliance with your request of **05/14/2009**, 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:
SEE THE ATTACHED "SPECIAL CONDITIONS FOR WOLFE ROAD WATERLINE ENCROACHMENT PERMIT"
Traffic Control Per MUTCD

FORMS:

SS/WW, R-29, R17		

Est. Permit Fee: $12,000.00

THOMAS R. FLINN, Director
Department of Public Works

By: _____
Permit Section

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

ENCROACHMENT PERMIT

GENERAL PROVISIONS

1. This permit is issued under and subject to a11 1aws 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 6

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

2. It is understood and agreed by the Permittee that the doing 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 a condition as is possible and upon completion of the work granted 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 injury 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 of such maintenance of the encroachment structure 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 Director of Public Works or his representative.

6. It is further agreed by the Permittee that whenever construction, reconstruction or maintenance work upon the highway may. require, the installation provided for herein shall, upon request of the County Department of Public Works, be immediately moved 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 so that there will be 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. Barricades shall be placed, With approved Signs and lights at light, and flagmen shall be employed, all as may be 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 do the work provided for 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 them and 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 surfacing is cut or damaged in the work of placing an encroachment structure, 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 necessary to, secure permission from abutting property owners, such authority must be secured by the Permittee prior to starting work..

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

APPLICATION FOR ENCROACHMENT PERMIT

PLEASE PRINT:

Date 1/6/09

To: San Joaquin County
Department of Public Works

Tony Tovar
(Applicant Name)

2500 Navy Dr.
(Mailing Address)

Stockton, CA 95206
(City, State, Zip Code)

(209) 937-8790
(Area Code - Telephone Number)

OFFICE USE ONLY

JOB # PWP76053 REF #
APN CR #
EXP. DATE 12-17-2016
VALID 10-4-2010 TO 12-17-2010 DRIVEWAYS:
STREET Wolfe Rd
AREA French Camp QUAD SE
TYPE Bellhole, Bore, Trench
FORMS SS/WW, RC9, Special Cond.
NOTES

Sketch (Detailed plans may be submitted)

plans attached

The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on the Northern side of Wolfe Road approximately 1 feet/mile of 18" water line, by performing the following work (description of work):

installation of approx. 1 mile of 18" water line with in the Wolfe Road right of way from French Camp Road to the Honor Farm property entrance.

Work will commence on or about JULY 1, 2009 for approximately 45 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.

Ruben S. Tovar
Signature of Applicant - Title

1/6/09
Date

Y:\FORMS & TEMPLATES\ENCROACHMENT PERMIT APPLICATION.doc (08/08)

SPECIAL CONDITIONS FOR
WOLFE ROAD WATERLINE
ENCROACHMENT PERMIT

September 24, 2010

1. Final paving for trench repair or road resurfacing shall be per Caltrans' specifications and shall not occur between November 1 and March 31 unless authorized by the County.

2. Where the existing road structural section is below standard, a minimum section of 3 inches of asphalt concrete over 8 inches of aggregate base shall be required, except where specific road structural sections apply.

3. 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.

4. 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.

5. Traffic control loop detectors shall be protected, and any damage done shall be repaired.

6. 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.

7. All trenches shall be completely backfilled or shored and plated at the end of each workday, and the roadway restored to two-way traffic. 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 to the County for approval.

8. Length of open, unbackfilled trench shall be limited to a total maximum length of 250 linear feet during working hours.

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

10. Above ground facilities (blowoffs, above ground corrosion protection items, monitoring test stations, etc.) shall be located outside or as close as possible to the County right-of-way.

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

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

13. Any repair to roadways and adjacent areas shall match existing grades. Any proposed grade changes shall receive prior approval from County.

14. It is the responsibility of the applicant to ensure existing drainage improvements convey drainage during and after construction and match pre-construction conditions.

15. Submit detailed traffic control plans affecting County roads for review and approval prior to start of any work – no exceptions.

16. All traffic control plans shall adhere to the Manual on Uniform Traffic Control Devices (MUTCD).

17. Two-way traffic shall be maintained during non-working hours with excavated areas backfilled or plated. During working hours, two-way traffic control shall be maintained with one lane open and appropriate flaggers.

18. 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.

19. School buses shall be passed through the work zone with minimal delay.

20. Access to all properties shall be maintained at all times except when work is occurring at the access point. Minimal delays will be allowed to provide access within the work zone area. Driveway access shall be fully restored at the end of each workday. Driveways disturbed by the contractor shall be replaced with in-kind or better materials.

21. Coordinate with the San Joaquin County Honor Farm to maintain access at all times. Minimal delays will be allowed to provide access within the work zone area. Driveway access shall be fully restored at the end of each workday. Entryway paving disturbed by the contractor shall be replaced with in-kind or better materials

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

23. A report describing a public information campaign to inform affected residents and businesses shall be submitted to the County for approval prior to beginning work.

24. Existing fences shall not be removed without written consent signed by the property owner and submitted to the County prior to the removal. Fences removed shall be restored with in-kind or better materials.

25. Limited storage of construction material and equipment within the County right-of-way will be allowed as authorized by the County engineer.

26. 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 standard roadway striping and signage shall be clearly visible, maintained and restored throughout the construction zone during and after the project.

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

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

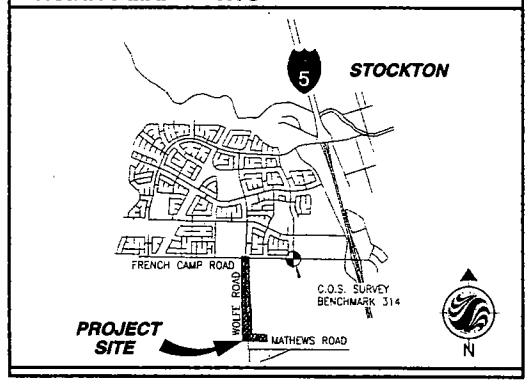
IMPROVEMENT PLANS FOR

WOLFE ROAD WATERLINE

PROJECT NO. M03026

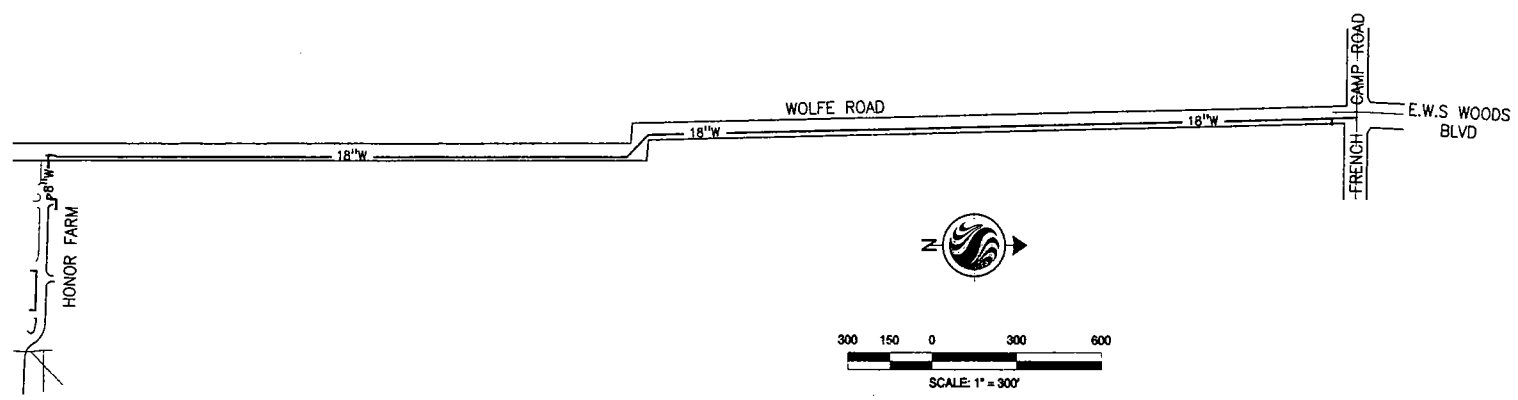
STOCKTON, CALIFORNIA

VICINITY MAP - NTS



ABBREVIATIONS

ABBREVIATIONS	DESCRIPTIONS
@	AT
AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
ACP	ASBESTOS CEMENT PIPE
AH	AHEAD
ALT	ALTERNATE STATIONING
AP	ANGLE POINT
BC	BEGINNING OF CURVE
BDRY	BOUNDARY
BK	BACK
BMP	BEST MANAGEMENT PRACTICES
BSL	BUILDING SETBACK LINE
BVC	BEGIN OF VERTICAL CURVE
C & G	CURB AND GUTTER
CIP	CAST IN PLACE
℄ OR CL	CENTERLINE
CO	CLEAN OUT
CONC	CONCRETE
COS	CITY OF STOCKTON
CB	CATCH BASIN
CW	COUNTY WIDE
DET	DETAIL
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
D	DRIVE OVER CURB
DW	DRIVEWAY
DWG	DRAWING
E	EAST
EC	END OF CURVE
ELECT OR ELEC	ELECTROLIER
EL OR ELEV	ELEVATION
ELL	ELBOW
EP	EDGE OF PAVEMENT
ESC	EROSION STORM CONTROL
ESMT	EASEMENT
EVC	END OF VERTICAL CURVE
EX OR EXIST	EXISTING
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
GB	GRADE BREAK
GR	GRADE
HGL	HYDRAULIC GRADE LINE
HOR	HORIZONTAL
HP	HIGH POINT
HPS	HIGH PRESSURE SODIUM
HWY	HIGHWAY
INV	INVERT
IRR	IRRIGATION
LF	LINEAL FEET OR LINEAR FOOT
LP	LOW POINT
LS	LANDSCAPE
LT	LEFT
MAX	MAXIMUM
MH	MAINTENANCE HOLE
MIN	MINIMUM
N	NORTH
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OG	ORIGINAL GROUND / GRADE
P	PAVEMENT
PP	POWER POLE
℘ OR PL	PROPERTY LINE
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
RET	RETURN
R	RADIUS
RT	RIGHT
RPM'S	RAISED PAVEMENT MARKINGS
R/W	RIGHT OF WAY
RWD	REDWOOD
RV	RESISTANCE VALUE
SE	SIDEWALK EASEMENT
SHT	SHEET
SJC	SAN JOAQUIN COUNTY
SNS	STREET NAME SIGN
STA	STATION
STD	STANDARD
S/W	SIDEWALK
SS	SANITARY SEWER, SEWER SERVICE
S	SLOPE OR SOUTH
SCH	SCHEDULE
SD	STORM DRAIN
SDMH	STORM DRAIN MAINTENANCE HOLE
SSMH	SANITARY SEWER MAINTENANCE HOLE
TC	TOP OF CURB
TEMP	TEMPORARY
TG	TOP OF GRATE
THRU	THROUGH
TI	TRAFFIC INDEX
TOW	TOP OF WALL
TPE	TREE PLANTING EASEMENT
TYP	TYPICAL
V	VERTICAL CURB OR VELOCITY OF FLOW
VC	VERTICAL CURVE
VERT	VERTICAL
VCP	VITRIFIED CLAY PIPE
WCR	WHEELCHAIR RAMP
WS	WATER SERVICE
W	WATER, OR WEST
±	PLUS OR MINUS (NOT EXACT)



LEGEND

	EXISTING	PROPOSED
FIRE HYDRANT		N/A
TYPE 1 CATCH BASIN PER COS DWG 79		N/A
SEWER MAINTENANCE HOLE		N/A
YARD DRAIN		N/A
ELECTROLIER		N/A
6" CURB & GUTTER		N/A
5" CURB TYPE "B"		N/A
WATER LINE AND SIZE	EX 12"W	12"W
WATER LINE AND SIZE CL 200, C-900 UNLESS OTHERWISE NOTED	N/A	12"W
WATER VALVE (PER COS STD DWG NO 99)		
WATER BUTTERFLY VALVE (PER COS STD DWG NO 99)	N/A	
BLOW-OFF (PER COS STD DWG NO 98)	N/A	
SEWER LINE AND SIZE	EX 12"SS	N/A
STREET SIGN		N/A
CITY LIMIT LINE		N/A
TRAFFIC SIGNAL POLE		N/A
EXISTING GROUND ELEVATION	32.0	N/A
FENCE		N/A

SHEET INDEX

C1 COVER SHEET
C2 GENERAL NOTES AND SPECIFICATIONS
C3 PLAN AND PROFILE: WOLFE ROAD STATION 9+00.00 TO 20+00.00
C4 PLAN AND PROFILE: WOLFE ROAD STATION 20+00.00 TO 30+00.00
C5 PLAN AND PROFILE: WOLFE ROAD STATION 30+00.00 TO 40+00.00
C6 PLAN AND PROFILE: WOLFE ROAD STATION 40+00.00 TO 50+00.00
C7 PLAN AND PROFILE: WOLFE ROAD STATION 50+00.00 TO 57+00.00
C8 PLAN AND PROFILE: HONOR FARM
C9 EROSION CONTROL PLAN
C10 TRAFFIC CONTROL PLAN

APPROVED BY:
DIRECTOR OF MUNICIPAL UTILITIES
DATE: 5/5/10

Stantec Consulting Inc.
1217 J Street
Modesto, CA U.S.A.
95354
Tel. 209.521.8986
Fax. 209.521.9045
www.stantec.com
Stantec

The Contractor shall verify and be responsible for all dimensions. Do not scale the drawing - any errors or omissions shall be reported to Stantec without delay. Copyright is all of design and drawing on the property of Stantec. The reproduction of this drawing or any portion thereof is not authorized by Stantec, is forbidden.

No.	M/D/Y	Description	By	Appd.

Revision

Client/Project
CITY OF STOCKTON
WOLFE ROAD WATERLINE
Stockton, California

Title
COVER SHEET

Permit-Seal

REGISTERED PROFESSIONAL ENGINEER
MICHAEL T. PERSAK
No. 44908
EXP. 3-31-12
CIVIL
STATE OF CALIFORNIA

Engineer's Signature
Signature Date: 5-3-10

CALL BEFORE YOU DIG
CALIFORNIA/NEVADA
1-800-227-2600

Project Engineer: Mike Persak
Submitted Date: 10.26.09

WOLFE ROAD WATERLINE
Stockton, California
COVER SHEET

DEPARTMENT OF MUNICIPAL UTILITIES
CITY OF STOCKTON, CALIFORNIA

SCALE:	APPROVED BY:	Sheet No. Revision
DESIGNED BY: MLP		C1
DRAWN BY: MLP		OF 10
CHECKED BY: MP	ASSISTANT DIRECTOR OF MUNICIPAL UTILITIES	JOB NO.
RECORD DWG:	DATE: 5/5/10	1844327900

I:\1844\active\184427900\civil\p\427900C-001.dwg
2010-4-30 11:45 By: michael.persak

ORIGINAL SHEET - ARCH D

GENERAL NOTES

1) ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE FOLLOWING: CITY OF STOCKTON STANDARD SPECIFICATIONS AND PLANS ADOPTED NOVEMBER 25, 2003, AND ALL AMENDMENTS THERETO TO DATE. CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (CALTRANS) LATEST EDITION, WHERE APPLICABLE, SAN JOAQUIN COUNTY STANDARD SPECIFICATIONS AND PLANS ADOPTED MAY 1997, AND ALL AMENDMENTS THERTO TO DATE. ALL WORK SHALL BE UNDER THE INSPECTION OF THE CITY OF STOCKTON.

2) CONTACT LIST:

A. REGULATORY AGENCY:
CITY OF STOCKTON, MUNICIPAL UTILITIES DEPT.
2500 NAVY DRIVE
STOCKTON, CA 95206
(209) 937-8134 (209) 937-8777 (FAX)
ROSA ALVAREZ

SAN JOAQUIN COUNTY, PUBLIC WORKS DEPARTMENT
1810 EAST HAZELTON AVE
STOCKTON, CA 95205
(209) 468-3000 (209) 468-2999 (FAX)
THOMAS FLINN

B. ENGINEER:
STANTEC
1217 J STREET
MODESTO, CA 95354
(209) 521-8886 (209) 521-9045 (FAX)
MIKE PERSAK

3) DRAWING NUMBERS SHOWN ON THE PLANS REFER TO DRAWINGS CONTAINED IN THE CITY OF STOCKTON OR SAN JOAQUIN COUNTY STANDARD SPECIFICATIONS, SHOWN THUS (I.E DWG 56).

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) THE CONTRACTOR SHALL EXERCISE DUE CAUTION AND SHALL CAREFULLY PRESERVE BENCH MARKS, CONTROL POINTS, REFERENCE POINTS AND ALL SURVEY STAKES, AND SHALL BEAR ALL EXPENSES FOR REPLACEMENT AND/OR ERRORS CAUSED BY THEIR UNECESARY LOSS OR DISTURBANCE.

7) 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 SAN JOAQUIN COUNTY AND 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. THE PERMIT SHALL BE APPROVED BY THE CITY OF STOCKTON FIRE DEPT.

8) 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 OWNER, THE ENGINEER, AND THE RESPECTIVE REGULATORY AGENCY.

9) BENCHMARKS:
BENCHMARK: NO. 314
ELEVATION: 22.18
DATUM: CITY OF STOCKTON, CALIFORNIA
DESCRIPTION: BRASS DISK MARKING COS MONUMENT STAMPED "105-10" ON EAST SIDE OF THE EAST LEVEE OF SAN JOAQUIN RIVER ON WESTERLY EXTENSION OF WOLFE RD. (REVISED 3/00)
ELEVATIONS ARE BASED ON NAVD 88 (2002 REV.)

10) LOCATION OF SAW CUTTING AS REPRESENTED IN THESE PLANS SHALL BE DETERMINED IN THE FIELD WITH THE CITY INSPECTOR. IF THE EXISTING SECTION REQUIRES GRINDING OR OVERLAYING OF AC, IT SHALL BE DETERMINED IN THE FIELD WITH THE CITY INSPECTOR.

UNDERGROUND UTILITIES

1) 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 ANY EXCAVATION WORK BY CALLING THE TOLL-FREE NUMBER (800) 227-2600.

2) THE CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER PROVISIONS NECESSARY TO PROTECT WORKMEN FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF 5' OR MORE. EXCAVATIONS OF 5 FEET OR MORE IN DEPTH WILL REQUIRE AN EXCAVATIONS PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY. FOR TRENCHES 5 FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL COMPLY WITH SECTION 5-1.02A OF THE CALTRANS STANDARDS, SECTION 6705 OF THE STATE OF CALIFORNIA LABOR CODE, AND ANY LOCAL CODES OR ORDINANCES.

3) WE CALL YOUR ATTENTION TO TITLE 8 CALIFORNIA ADMINISTRATION CODE SECTION 1540 (A) (1) OF THE CONSTRUCTION SAFETY ORDERS ISSUED BY THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD PURSUANT TO THE CALIFORNIA OCCUPATIONS SAFETY AND HEALTH ACT OF 1973 AS AMENDED WHICH STATES: (1) PRIOR TO OPENING AN EXCAVATION, EFFORT SHALL BE MADE TO DETERMINE WETHER UNDERGROUND INSTALLATIONS; I.E. SEWER, WATER, FUEL, ELECTRIC LINES, ETC., WILL BE ENCOUNTERED AND IF SO, WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN THE EXCAVATION APPROACHES THE APPROXIMATE LOCATION OF SUCH AN INSTALLATION, THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING; AND, WHEN IT IS UNCOVERED, ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE EXISTING INSTALLATION. ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST 48 HOURS PRIOR TO THE START OF ACTUAL EXCAVATION.

4) ACTUAL CONNECTIONS TO EXISTING WATER LINES WILL NOT BE PERMITTED PRIOR TO THE COMPLETION OF STERILIZATION AND TESTING OF NEW WATER MAINS. ALL EXISTING WATER VALVES TO BE OPERATED ONLY UNDER THE DIRECTION OF WATER DIVISION PERSONNEL OF THE REGULATORY AGENCY.

5) ALL PROPOSED WATER MAINS MUST BE INSTALLED IN ACCORDANCE WITH CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 22, DIVISION 4, CHAPTER 16 "CALIFORNIA WATERWORKS STANDARDS" AND STATE OF CALIFORNIA DEPARTMENT OF PUBLIC HEALTH GUIDANCE MEMO NO. 2003-02: GUIDANCE CRITERIA FOR THE SEPARATION OF WATER MAINS AND NON-POTABLE PIPELINES. ALSO SEE CITY OF STOCKTON STD. DWGS. 47-49.

6) THE CONTRACTOR SHALL INSTALL THRUST BLOCKS OR OTHER SUITABLE RESTRAINT SYSTEM AS APPROVED BY THE CITY ENGINEER AND PER CITY OF STOCKTON STD. DWG. 100.

7) UNLESS OTHERWISE NOTED, WATER MAIN MATERIALS SHALL BE AS FOLLOWS:

WATER MAIN SIZE	MATERIAL	VALVE	RESTRAINT
6" - 12"	AWWA C-900 PVC CLASS 150 DR18 CLASS 200 DR14	AWWA C-500 GATE (12" ONLY MAY USE AWWA C-504 BUTTERFLY)	THRUST BLOCK PER COS STD DWG 100 OR OTHER AS APPROVED BY CITY ENGINEER
16" - 24"	AWWA C-905 PVC DR13 ONLY	AWWA C-504 BUTTERFLY	THRUST BLOCK OR MECHANICAL JOINT TO BE APPROVED BY CITY ENGINEER

SURFACE IMPROVEMENTS

1) ALL VALVE BOXES, ETC. SHALL BE ADJUSTED TO FINISH GRADE AFTER STREET PAVING, UNLESS OTHERWISE NOTED. COST FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES FOR SAID FACILITIES.

2) PAYMENT FOR PAVEMENT WILL BE MADE ONLY FOR AREAS SHOWN ON PLANS. REPLACEMENT OF PAVEMENT WHICH IS BROKEN OR CUT DURING THE INSTALLATION OF THE WORK COVERED BY THESE SPECIFICATIONS, AND WHICH LIES OUTSIDE OF SAID AREAS, SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE FOR PAVEMENT, AND NO ADDITIONAL PAYMENT SHALL BE MADE FOR SUCH WORK.

3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL STRIPING AND/OR PAVEMENT MARKINGS NECESSARY TO TIE EXISTING STRIPING INTO FUTURE STRIPING. METHOD OF REMOVAL SHALL BE BY GRINDING OR SANDBLASTING IN ACCORDANCE WITH CALTRANS STANDARD SPECIFICATIONS SECTION 15-2.02B AND 15-2.02C LATEST EDITION.

4) STRIPING AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH CALTRANS STANDARD SPECIFICATIONS (LATEST EDITION) SECTION 84. PAINT SHALL CONFORM TO STATE SPECIFICATION 8010-51K-02 OR -04 UNLESS OTHERWISE NOTED.

5) CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING BARRICADES AND OTHER TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE CALTRANS CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CALIFORNIA MUTCD), STANDARD PLANS, STANDARD SPECIFICATIONS, AND SPECIAL PROVISIONS.

6) ALL DISTURBED SHOULDER AREAS WITHIN 4 FEET OF THE EXISTING EDGE OF PAVEMENT SHALL BE RESURFACED WITH A MINIMUM OF 0.25' CLASS II AB. ALL PAVEMENT REMOVED OR DAMAGED SHALL BE REPLACED IN KIND.

NPDES NOTES

1) 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 OWNER/DEVELOPER FROM COMPLIANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). IN ADDITION TO ALL OF THE OTHER REQUIRED PERMITS, THE CONTRACTOR SHALL HAVE A GRADING AND EROSION CONTROL PERMIT COMPLETE WITH AN APPROVED SWPPP. APPROPRIATE DUST CONTROL SHALL BE PROVIDED AT THE CONTRACTOR'S EXPENSE AND SHALL BE IN ACCORDANCE WITH SECTION 10 OF CALTRANS STANDARD SPECIFICATIONS AND THE REQUIREMENTS OF SAN JOAQUIN COUNTY AND THE CITY OF STOCKTON.

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 TO NOT 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 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 TO BOTTOM OF EXCAVATION TO MAINTAIN THE UNDISTURBED STATE OF NATURAL SOILS AND ALLOW THE PLACEMENT OF ANY FILL TO SPECIFIED DENSITY. DISPOSAL OF WATER SHALL BE IN ACCORDANCE WITH THE APPROVED SWPPP AND SHALL NOT DAMAGE PROPERTY, CREATE A PUBLIC NUISANCE OR VIOLATE THE LAW. THE CONTRACTOR SHALL HAVE WORKMEN AVAILABLE FOR ITS OPERATION. THE DEWATERING SYSTEM SHALL OPERATE CONTINUOUSLY UNTIL BACK-FILL HAS BEEN COMPLETED TO 1 FOOT ABOVE THE NORMAL STATIC GROUNDWATER LEVEL.

3) THE DISCHARGE OF CHLORINATED WATER INTO THE STORM DRAIN SYSTEM IS PROHIBITED. THE DISCHARGE OF CHLORINATED AND DE-CHLORINATED WATER INTO THE SANITARY SEWER SYSTEM REQUIRES PRIOR APPROVAL FROM MUD. CONTACT TONY TOVAR AT (209) 937-8790.

NOTE:
REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL NOTES AND SPECS

Stantec Consulting Inc.
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No.	MM/YY	Description	By	Appd.

Revision

Client/Project
CITY OF STOCKTON
WOLFE ROAD WATERLINE
Stockton, California

Title
GENERAL NOTES AND SPECIFICATIONS

Permit-Seal

REGISTERED PROFESSIONAL ENGINEER
MICHAEL T. PERSAK
No. 44908
EXP. 3-31-12
CIVIL
STATE OF CALIFORNIA

Engineer's Signature: Michael T. Persak
Signature Date: 5-3-10

CALL BEFORE YOU DIG
CALIFORNIA/NEVADA
1-800-227-2600

Project Engineer: Mike Persak
Submitted Date: 10.26.09

WOLFE ROAD WATERLINE

Stockton, California
GENERAL NOTES AND SPECIFICATIONS

DEPARTMENT OF MUNICIPAL UTILITIES
CITY OF STOCKTON, CALIFORNIA

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2010-4-26 11:16 By: mpersak

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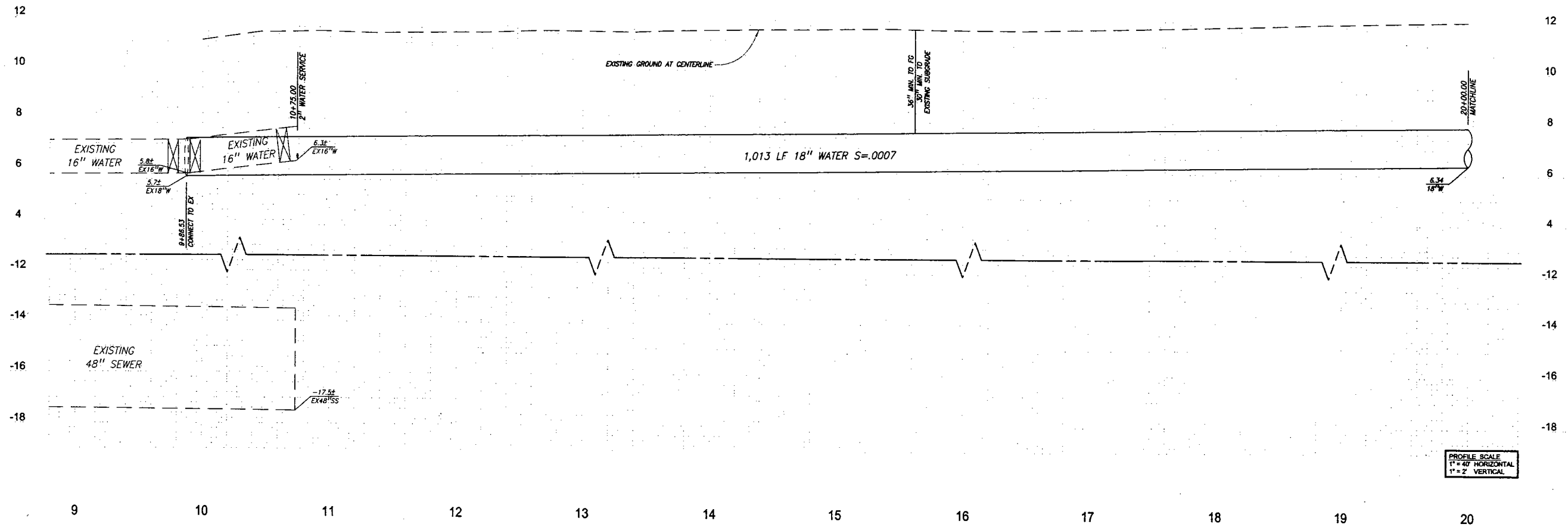
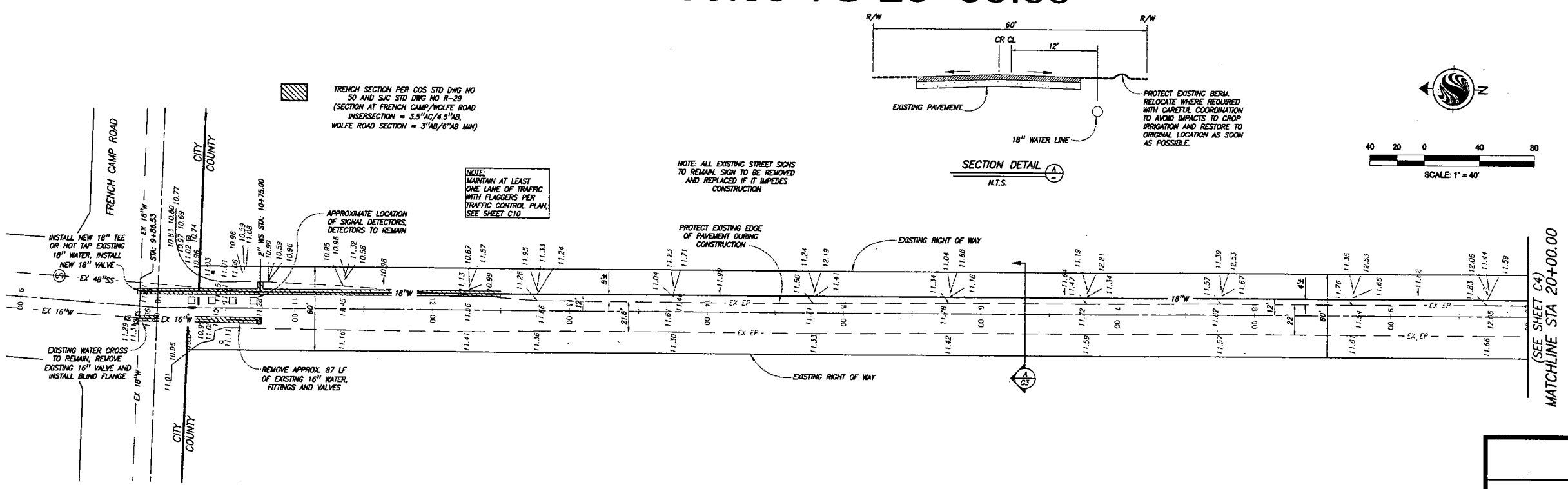


WOLFE ROAD
STA: 9+00.00 TO 20+00.00



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No.	MM/YY	Revision	By	Appd.
		Description		

Client/Project
CITY OF STOCKTON
WOLFE ROAD WATERLINE
Stockton, California

Title
PLAN AND PROFILE
WOLFE ROAD STATION 9+00.00 TO 20+00.00

Permit-Seal
REGISTERED PROFESSIONAL ENGINEER MICHAEL T. PERSAK No. 44908 Exp. 3-31-12 CIVIL STATE OF CALIFORNIA

Engineer's Signature
Signature Date: 5-3-10

CALL BEFORE YOU DIG CALIFORNIA/NEVADA 1-800-227-2600

Project Engineer: Mike Persak
Submitted Date: 10.26.09

WOLFE ROAD WATERLINE

Stockton, California

PLAN AND PROFILE
WOLFE ROAD STATION 9+00.00 TO 20+00.00

DEPARTMENT OF MUNICIPAL UTILITIES
CITY OF STOCKTON, CALIFORNIA

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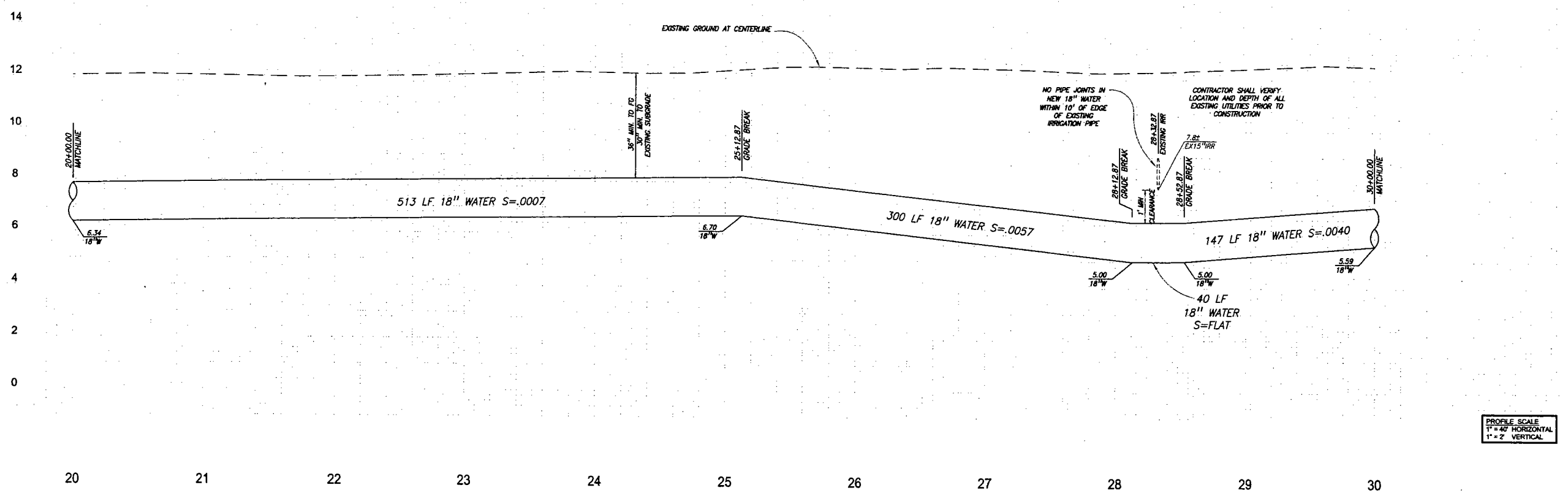

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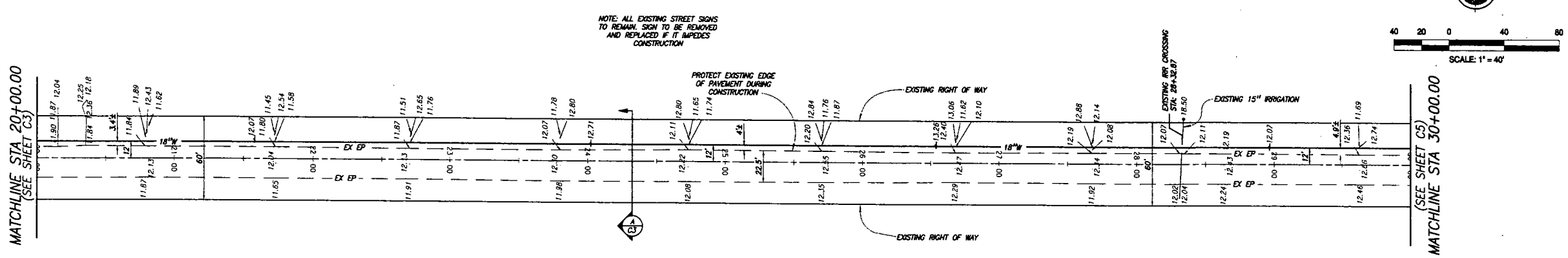

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Client/Project
CITY OF STOCKTON
WOLFE ROAD WATERLINE
Stockton, California

Title
PLAN AND PROFILE
STATION 20+00.00 TO 30+00.00

Permit-Seal

REGISTERED PROFESSIONAL ENGINEER
MICHAEL T. PERSAK
No. 44908
Exp. 3-31-12
CIVIL
STATE OF CALIFORNIA

Engineer's Signature
Signature Date: 5-3-10

CALL BEFORE YOU DIG
CALIFORNIA/NEVADA
1-800-227-2600

Project Engineer: Mike Persak
Submitted Date: 10.26.09

WOLFE ROAD WATERLINE

Stockton, California
PLAN AND PROFILE
WOLFE ROAD STATION 20+00.00 TO 30+00.00

DEPARTMENT OF MUNICIPAL UTILITIES
CITY OF STOCKTON, CALIFORNIA

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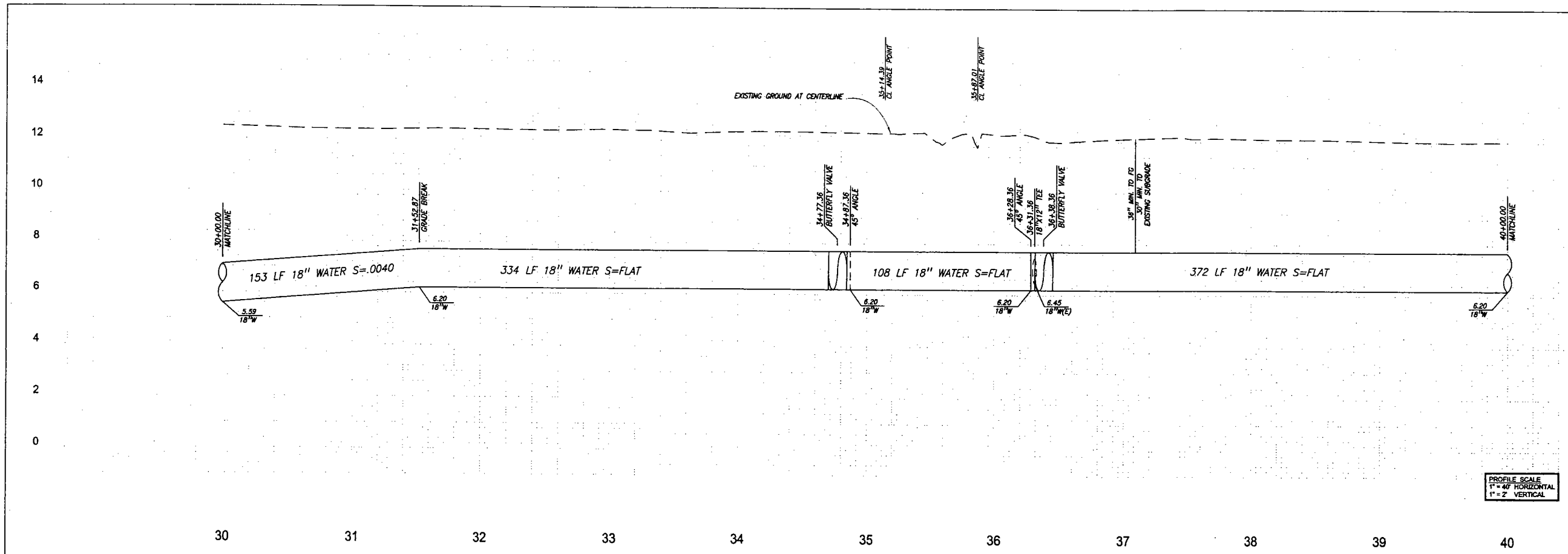

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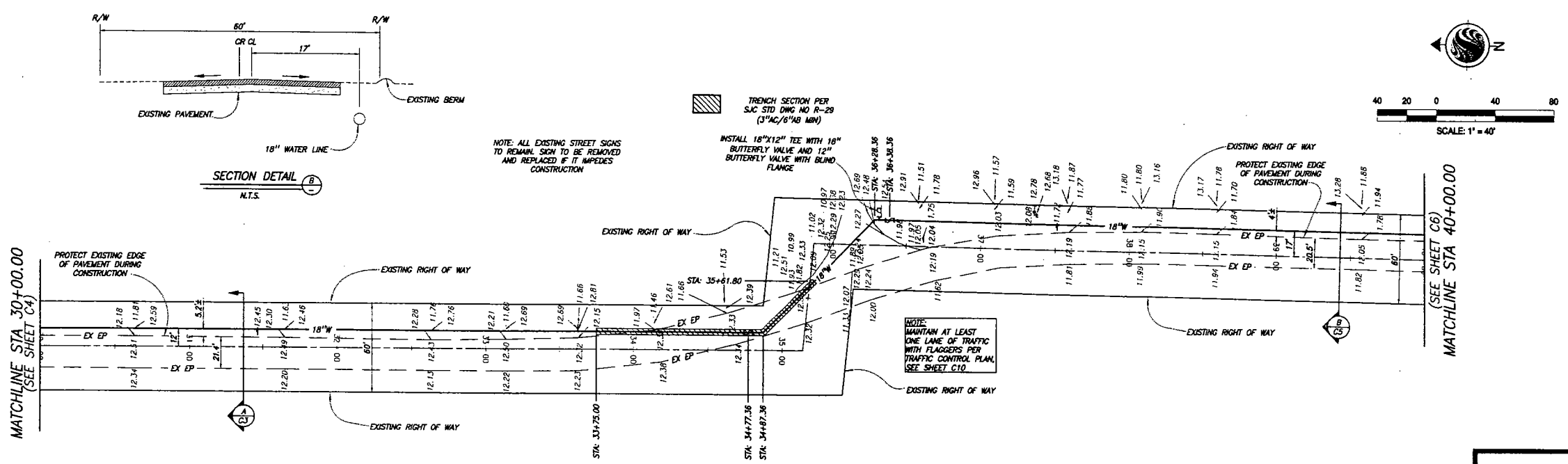

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Client/Project
CITY OF STOCKTON
WOLFE ROAD WATERLINE

Stockton, California

Title
PLAN AND PROFILE
WOLFE ROAD STATION 30+00.00 TO 40+00.00

Permit-Seal

REGISTERED PROFESSIONAL ENGINEER MICHAEL T. PERSAK No. 44908 EXP. 3-31-12 CIVIL STATE OF CALIFORNIA

Engineer's Signature
Signature Date: 5-3-10

CALL BEFORE YOU DIG CALIFORNIA/NEVADA 1-800-227-2600

Project Engineer: Mike Persak
Submitted Date: 10.26.09

WOLFE ROAD WATERLINE

Stockton, California

PLAN AND PROFILE
WOLFE ROAD STATION 30+00.00 TO 40+00.00

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CITY OF STOCKTON, CALIFORNIA

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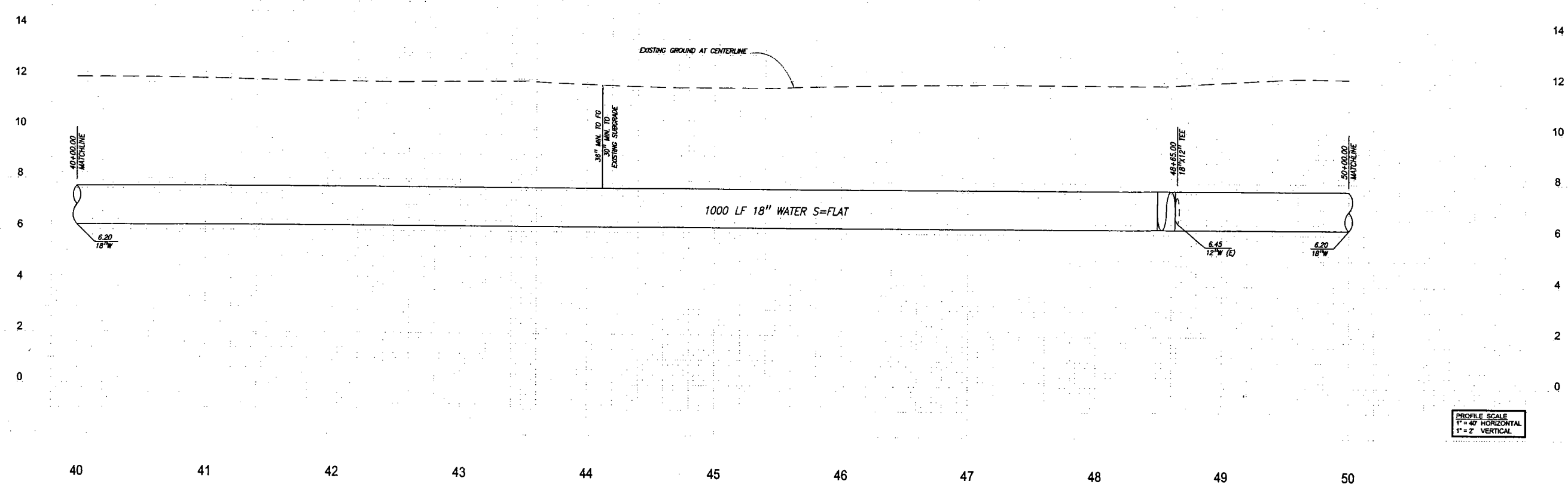

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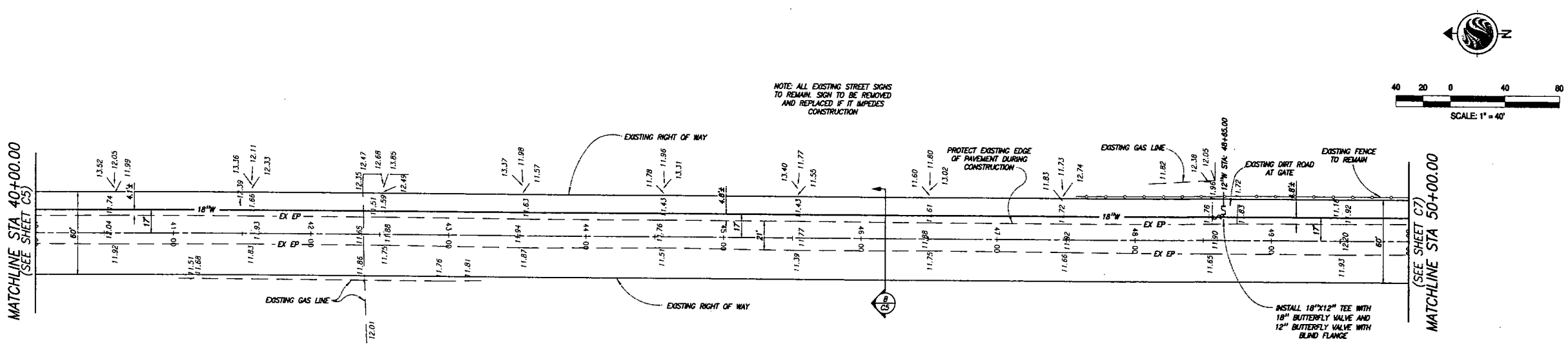

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Client/Project
CITY OF STOCKTON
WOLFE ROAD WATERLINE
Stockton, California

Title
PLAN AND PROFILE
WOLFE ROAD STATION 40+00.00 TO 50+00.00

Permit-Seal

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Project Engineer: Mike Persak
Submitted Date: 10.26.09

WOLFE ROAD WATERLINE

Stockton, California

PLAN AND PROFILE
WOLFE ROAD STATION 40+00.00 TO 50+00.00

DEPARTMENT OF MUNICIPAL UTILITIES
CITY OF STOCKTON, CALIFORNIA

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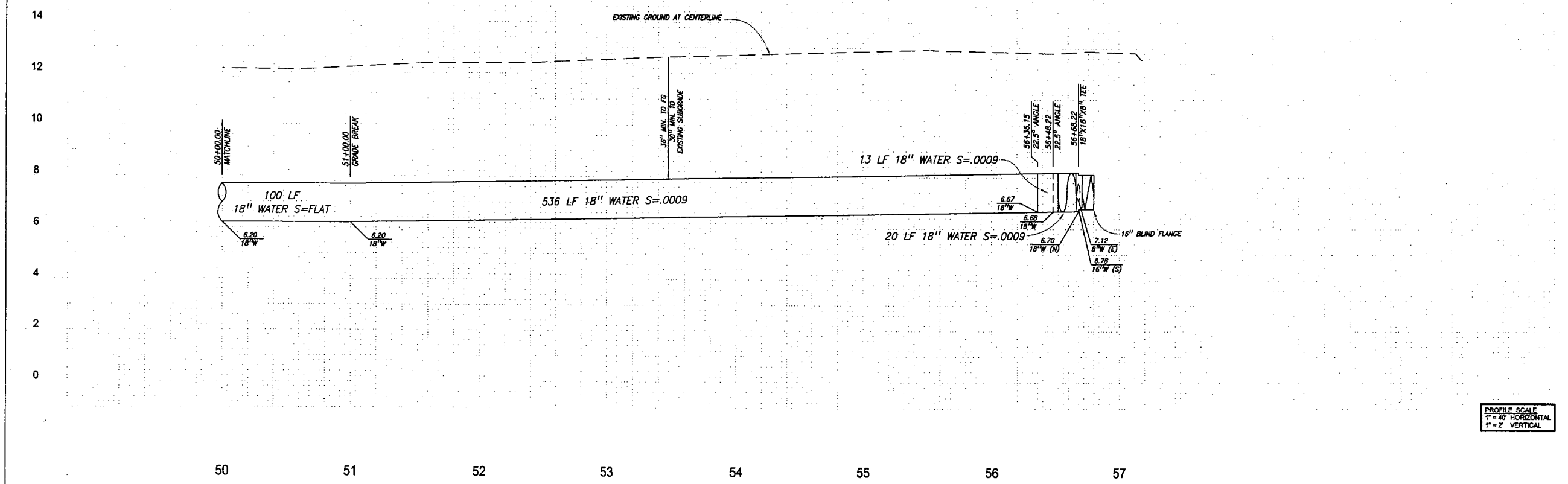
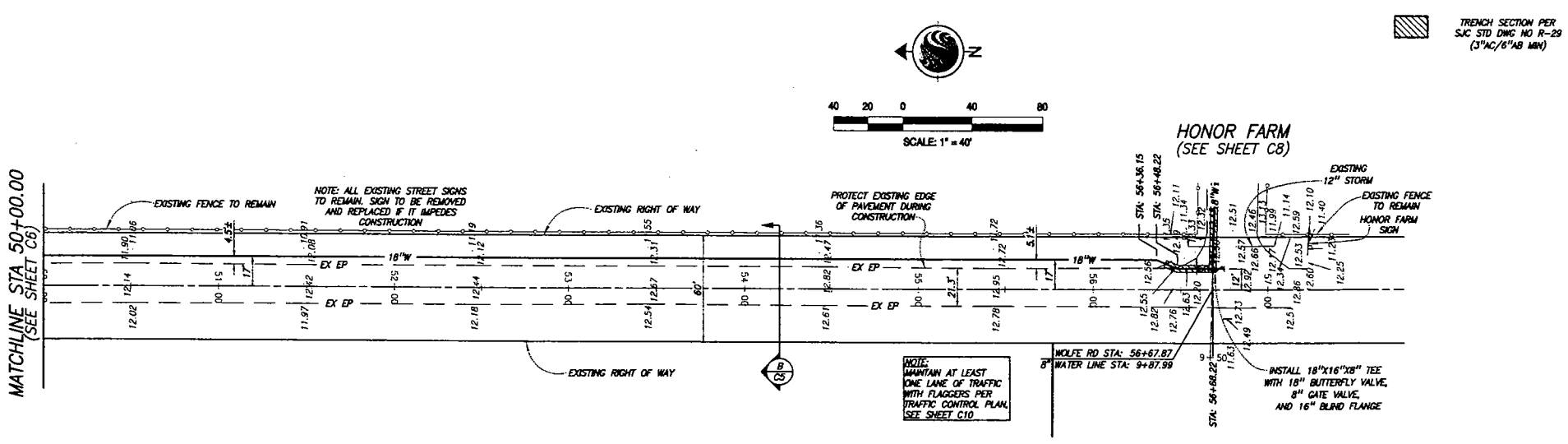


PROFILE SCALE
1" = 40' HORIZONTAL
1" = 2' VERTICAL

WOLFE ROAD
STA: 50+00.00 TO 57+00.00



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Client/Project
CITY OF STOCKTON
WOLFE ROAD WATERLINE
Stockton, California

Title
PLAN AND PROFILE
WOLFE ROAD STATION 50+00.00 TO 57+00.00

Permit-Seal

REGISTERED PROFESSIONAL ENGINEER MICHAEL T. PERSAK No. 44908 EXP. 3-31-12 CIVIL STATE OF CALIFORNIA

Engineer's Signature Date: 5-3-10

CALL BEFORE YOU DIG CALIFORNIA/NEVADA 1-800-227-2600

Project Engineer: Mike Persak
Submitted Date: 10.26.09

WOLFE ROAD WATERLINE

Stockton, California

PLAN AND PROFILE
WOLFE ROAD STATION 50+00.00 TO 57+00.00

DEPARTMENT OF MUNICIPAL UTILITIES
CITY OF STOCKTON, CALIFORNIA

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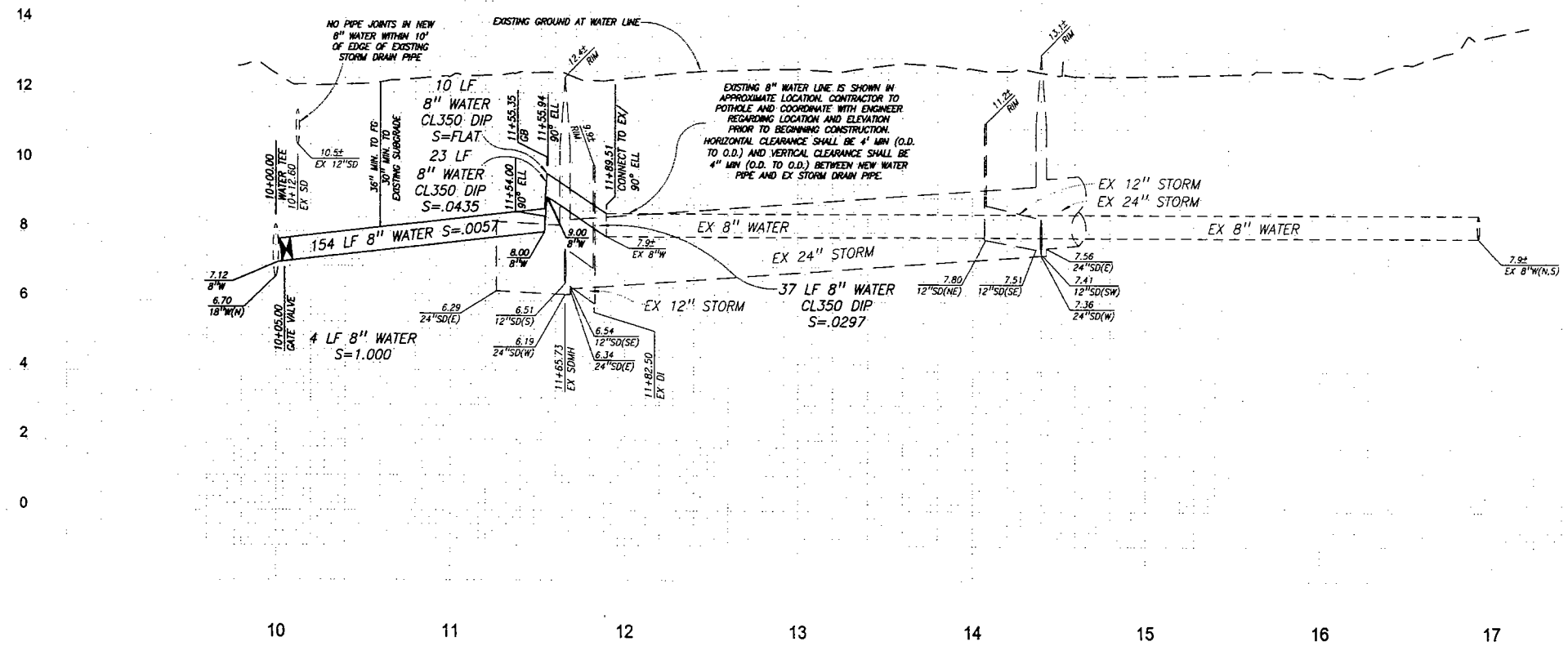
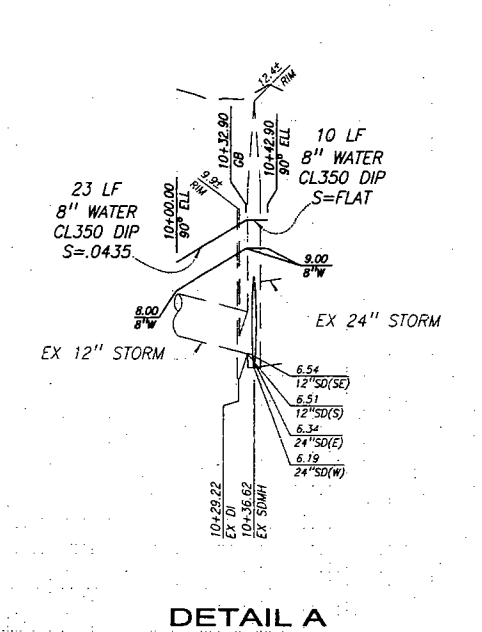
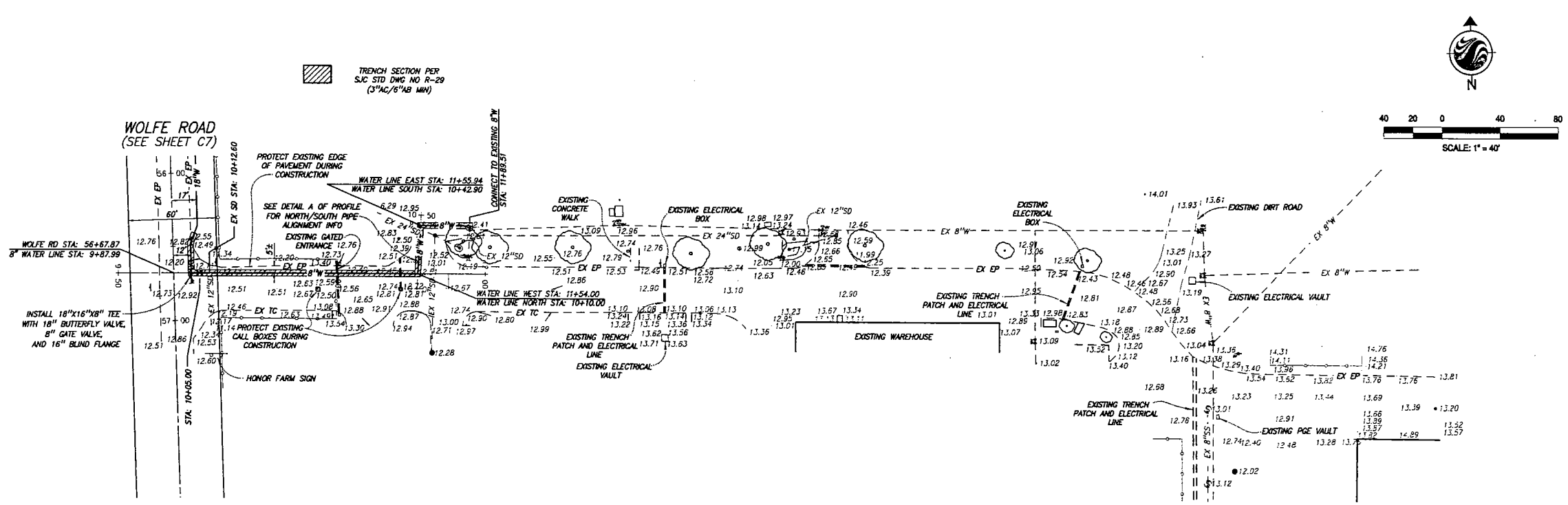




DETAIL A

PROFILE SCALE
1" = 40' HORIZONTAL
1" = 2' VERTICAL

HONOR FARM



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No.	MM.YY	Revision	Description	By	Appd.

Client/Project
CITY OF STOCKTON
WOLFE ROAD WATERLINE
Stockton, California

Title
PLAN AND PROFILE
HONOR FARM

Permit-Seal

REGISTERED PROFESSIONAL ENGINEER
MICHAEL T. PERSAK
No. 44908
EXP. 3-31-12
CIVIL
STATE OF CALIFORNIA

Engineer's Signature
Signature Date: 5-3-10

CALL BEFORE YOU DIG
CALIFORNIA/NEVADA
1-800-227-2600

Project Engineer: Mike Persak
Submitted Date: 10.26.09

WOLFE ROAD WATERLINE

Stockton, California
PLAN AND PROFILE
HONOR FARM

DEPARTMENT OF MUNICIPAL UTILITIES
CITY OF STOCKTON, CALIFORNIA

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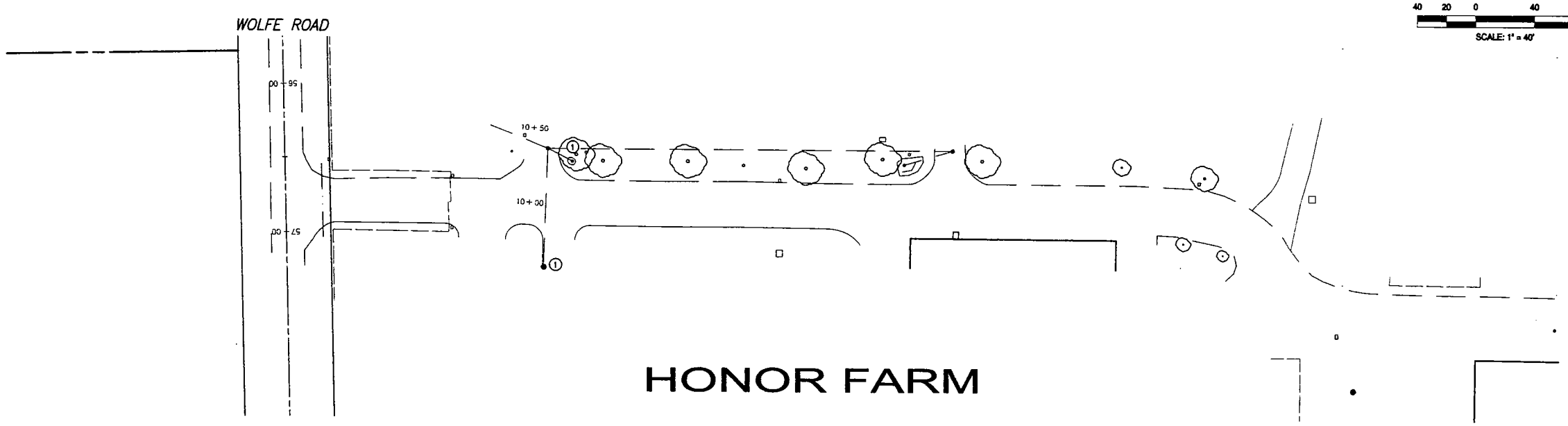
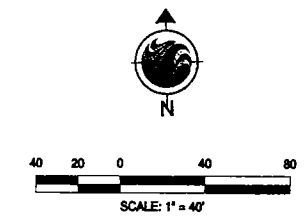
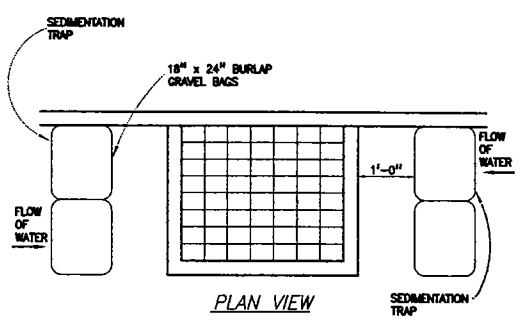
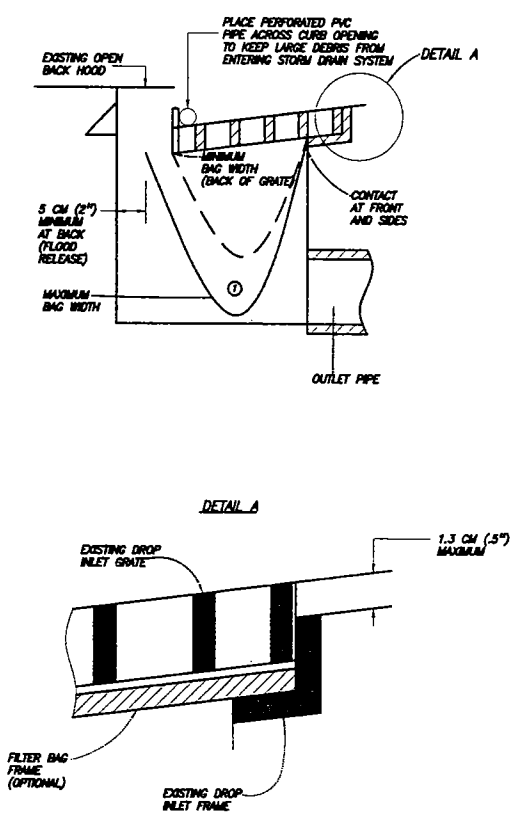






NOTES:
1. FILL BAGS 1/2 FULL W/1-1/2" DRAIN ROCK.
2. FOLD REMAINING PORTION OF BAG UNDER GRAVEL BAG AND PLACE FOLD SIDE DOWN FIRMLY AGAINST CURB AND/OR GRAVEL BAG.

TYPICAL INLET PROTECTION
NOT TO SCALE



NOTES:
1. THE MAXIMUM DRAINAGE AREA PER FILTER SHALL BE NO MORE THAN 0.81 HECTARES (2 ACRES).
2. THE FILTER BAG SHALL BE MANUFACTURED FROM UV RESISTANT POLYPROPYLENE NYLON, POLYESTER, OR ETHYLENE FABRIC WITH A MINIMUM TENSILE STRENGTH OF 50 LBS PER LINEAL FOOT. AN EQUIVALENT OPENING SIZE NOT GREATER THAN A 20 SIEVE AND WITH A MINIMUM FLOW RATE OF 40 GALLONS/MINUTE/SQ. FT.
3. THE FILTER BAG MAY BE SUSPENDED FROM OR HELD IN PLACE BY EXISTING INLET GRATE (OR OTHER APPROVED METHOD). PROVIDING NO MODIFICATION OR DAMAGE SHALL BE DONE TO THE INLET GRATE OR FRAME. THE INLET GRATE SHALL NOT BE CAUSED TO REST MORE THAN 1.3 CM (.5") ABOVE THE INLET FRAME (SEE DETAIL A).
4. THE FILTER BAG MAY EXTEND TO THE BOTTOM OF THE INLET BOX PROVIDED THE OUTLET PIPE IS UNOBSTRUCTED.
5. FLOWS SHALL NOT BE ALLOWED TO BYPASS THE BAG. THE BAG OR ITS FRAME SHALL CATCH FLOWS AT ALL SIDES OF THE INLET EXCEPT AS SHOWN FOR FLOOD RELEASE.
6. INLET FILTER BAGS SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL DURING THE WET SEASON AND MONTHLY DURING THE DRY SEASON. SEDIMENT AND DEBRIS SHALL BE REMOVED BEFORE ACCUMULATIONS HAVE REACHED ONE THIRD THE DEPTH OF THE BAG. BAGS SHALL BE REPAIRED OR REPLACED AS SOON AS DAMAGE OCCURS.

STORM DRAIN INLET FILTER BAG
NOT TO SCALE

LEGEND

EXISTING CATCH BASIN	
EXISTING STORM DRAIN MANHOLE	D
EXISTING STORM DRAIN LINE	

SWPPP LEGEND

ITEMS BELOW SHOWN ON THIS SHEET	
STORM DRAIN INLET FILTER	7

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No.	MM/YY	Description	By	Appd.
Revision				

Client/Project
CITY OF STOCKTON
WOLFE ROAD WATERLINE
Stockton, California

Title
EROSION CONTROL PLAN

Permit-Seal

REGISTERED PROFESSIONAL ENGINEER
MICHAEL T. PERSKE
No. 44958
Exp. 3-31-12
CIVIL
STATE OF CALIFORNIA

Engineer's Signature: Michael T. Perske
Signature Date: 5-3-10

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1-800-227-2600

Project Engineer: Mike Perske
Submitted Date: 10.26.09

WOLFE ROAD WATERLINE
Stockton, California
EROSION CONTROL PLAN

DEPARTMENT OF MUNICIPAL UTILITIES
CITY OF STOCKTON, CALIFORNIA

SCALE:	APPROVED BY:	Sheet No. Revision
DESIGNED BY: MLP		C9
DRAWN BY: MLP		OF 10
CHECKED BY: MP	ASSISTANT DIRECTOR OF MUNICIPAL UTILITIES	JOB NO.
RECORD DWG:	DATE: 5/5/10	1844327900

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2010-5-03 11:31 By: mperske

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Table 6H-2. Meaning of Symbols on Typical Application Diagrams

Table 6H-3. Meaning of Letter Codes on Typical Application Diagrams

Road Type	Distance Between Signs**		
	A	B	C
Urban (low speed)*	30 (100)	30 (100)	30 (100)
Urban (high speed)*	100 (350)	100 (350)	100 (350)
Rural	150 (500)	150 (500)	150 (500)
Expressway / Freeway	300 (1,000)	450 (1,500)	600 (2,640)

* Speed category to be determined by highway agency

** Distances are shown in meters (feet). The column headings A, B, and C are the dimensions shown in Figures 6H-1 through 6H-46. The A dimension is the distance from the transition or point of restriction to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second and third signs. (The third sign is the first one in a three-sign series encountered by a driver approaching a TTC zone.)

Table 6H-4. Formulas for Determining Taper Lengths

Speed Limit (S)	Taper Length (L) Meters
60 km/h or less	$L = \frac{WS^2}{155}$
70 km/h or more	$L = \frac{WS}{1.6}$

Speed Limit (S)	Taper Length (L) Feet
40 mph or less	$L = \frac{WS^2}{60}$
45 mph or more	L = WS

Where: L = taper length in meters (feet)
W = width of offset in meters (feet)
S = posted speed limit, or off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in km/h (mph)

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Notes for Figure 6H-3—Typical Application 3

Work on Shoulders

Guidance:
1. A SHOULDER WORK sign should be placed on the left side of the roadway for a divided or one-way street only if the left shoulder is affected.

Option:
2. The Workers symbol signs may be used instead of SHOULDER WORK signs.
3. The SHOULDER WORK AHEAD sign on an intersecting roadway may be omitted where drivers emerging from that roadway will encounter another advance warning sign prior to this activity area.
4. For short-duration operations of 60 minutes or less, all signs and channelizing devices may be eliminated if a vehicle with activated high-intensity rotating, flashing, oscillating, or strobe lights is used.
5. Vehicle hazard warning signals may be used to supplement high-intensity rotating, flashing, oscillating, or strobe lights.

Standard:
6. **Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.**
7. **When paved shoulders having a width of 2.4 m (8 ft) or more are closed, at least one advance warning sign shall be used. In addition, channelizing devices shall be used to close the shoulder in advance to delineate the beginning of the work space and direct vehicular traffic to remain within the traveled way.**

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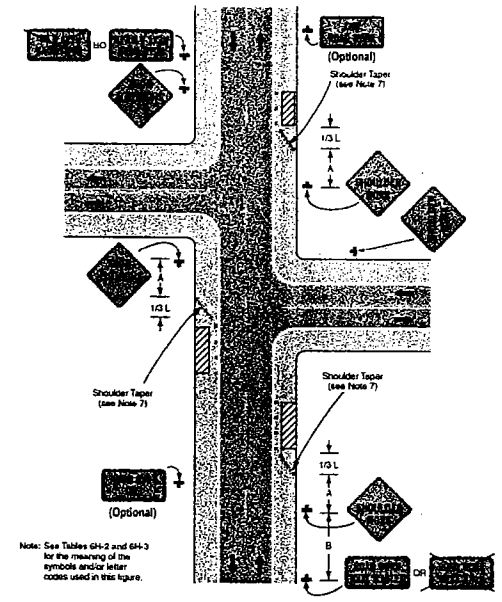
Figure 6H-3. Work on Shoulders (TA-3)



Typical Application 3

Notes for Figure 6H-6—Typical Application 6

Shoulder Work with Minor Encroachment

Guidance:
1. All lanes should be a minimum of 3 m (10 ft) in width as measured to the near face of the channelizing devices.
2. The treatment shown should be used on a minor road having low speeds. For higher-speed traffic conditions, a lane closure should be used.

Option:
3. For short-term use on low-volume, low-speed roadways with vehicular traffic that does not include longer and wider heavy commercial vehicles, a minimum lane width of 2.7 m (9 ft) may be used.
4. Where the opposite shoulder is suitable for carrying vehicular traffic and of adequate width, lanes may be shifted by use of closely spaced channelizing devices, provided that the minimum lane width of 3 m (10 ft) is maintained.
5. Additional advance warning may be appropriate, such as a ROAD NARROWS sign.
6. Temporary traffic barriers may be used along the work space.
7. The shadow vehicle may be omitted if a taper and channelizing devices are used.
8. A truck-mounted attenuator may be used on the shadow vehicle.
9. For short-duration work, the taper and channelizing devices may be omitted if a shadow vehicle with activated high-intensity rotating, flashing, oscillating, or strobe lights is used.
10. Vehicle hazard warning signals may be used to supplement high-intensity rotating, flashing, oscillating, or strobe lights.

Standard:
11. Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.
12. Note 3 shall not be applicable to State highways. Note 1 shall be used instead for State highways.

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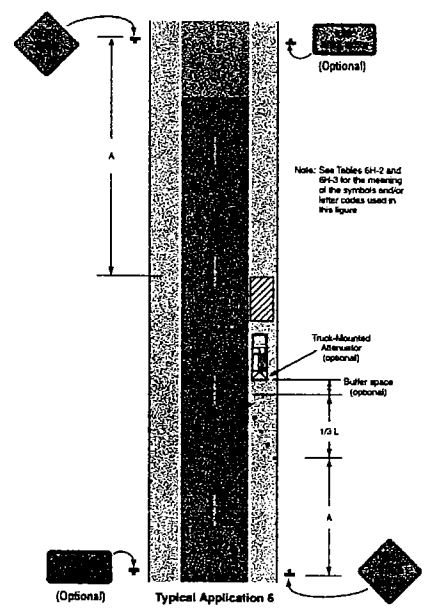
Figure 6H-6. Shoulder Work with Minor Encroachment (TA-6)



Typical Application 6

Notes for Figure ~~6H-10~~ 6H-10(CA)—Typical Application 10

Lane Closure on Two-Lane Road Using Flaggers

Option:
1. For low-volume situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger, positioned to be visible to road users approaching from both directions, may be used (see Chapter 6E).
2. The ROAD WORK AHEAD and the END ROAD WORK signs may be omitted for short-duration operations.
3. Flashing warning lights and/or flags may be used to call attention to the advance warning signs. A BE PREPARED TO STOP sign may be added to the sign series.

Guidance:
4. The buffer space should be extended so that the two-way traffic taper is placed before a horizontal (or crest vertical) curve to provide adequate sight distance for the flagger and a queue of stopped vehicles.

Standard:
5. **At night, flagger stations shall be illuminated, except in emergencies.**

Guidance:
6. When used, the BE PREPARED TO STOP sign should be located ~~between~~ after the Flagger sign and the ONE LANE ROAD sign.
7. When a highway-rail grade crossing exists within or upstream of the transition area and it is anticipated that queues resulting from the lane closure might extend through the highway-rail grade crossing, the TTC zone should be extended so that the transition area precedes the highway-rail grade crossing.
8. When a highway-rail grade crossing equipped with active warning devices exists within the activity area, provisions should be made for keeping flaggers informed as to the activation status of these warning devices.
9. When a highway-rail grade crossing exists within the activity area, drivers operating on the left side of the normal centerline should be provided with comparable warning devices as for drivers operating on the right side of the normal centerline.
10. Early coordination with the railroad company should occur before work starts.

Option:
11. A flagger or a uniformed law enforcement officer may be used at the highway-rail grade crossing to minimize the probability that vehicles are stopped within 4.6 m (15 ft) of the highway-rail grade crossing, measured from both sides of the outside rails.

Support:
12. For State highways, see Department of Transportation's Standard Plan T13. See Section 1A.11 for information regarding this publication.

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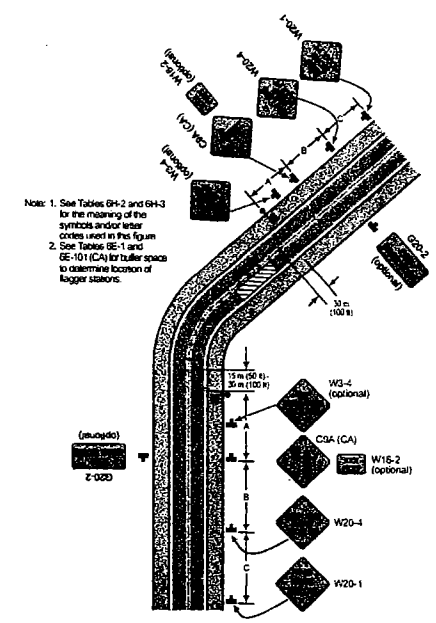
Figure 6H-10 (CA). Lane Closure on Two-Lane Road Using Flaggers (TA-10)



Typical Application 10

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WOLFE ROAD WATERLINE
Stockton, California

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Permit-Seal

REGISTERED PROFESSIONAL ENGINEER MICHAEL T. PERSAK No. 44908 Exp. 3-31-12 CIVIL STATE OF CALIFORNIA

Engineer's Signature:
Signature Date: 5-3-10

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Submitted Date: 10.26.09

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