



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-1803763
Date Issued: 10/29/2018
Start Date: 10/29/2018
Exp. Date: 01/01/2019
Project No: PWP730052
Quad: NW

UE/CR/PM NO:74015830

ENCROACHMENT PERMIT

To: PACIFIC GAS & ELECTRIC - STOCKTON
PO BOX 930
STOCKTON, CA 95201

Encroachment Type:

Trench			
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Location:

NEW HOPE RD & NOWELL RD

In compliance with your request of 10/29/2018, 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

FORMS:

SS/WW, R-29		
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Est. Permit Fee: \$1,006.00

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

KRIS BALAJI, Director
Department of Public Works

By: 
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 located within the area of work herein permitted. Prior to the start of construction, survey monuments that potentially may be disturbed shall be located and referenced by a Licensed Land Surveyor, and a Corner Record filed with the County Surveyor. Any Survey Monuments disturbed during the course of construction shall be reestablished by a Licensed Land Surveyor and another Corner Record filed with the County Surveyor. (Land Surveyors' Act Section 8771)
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.

APPLICATION FOR ENCROACHMENT PERMIT

PLEASE PRINT:

Date 9/26/2018

To: San Joaquin County
Department of Public Works

PG&E PM 74015830

(Applicant Name)

4040 West Lane

(Mailing Address)

Stockton, CA 95204

(City, State, Zip Code)

(209) 470 - 2300

(Area Code - Telephone Number)

s6pz@pge.com

(Email Address)

OFFICE USE ONLY

JOB #	<u>730052</u>	REF #	
APN		CR #	
EXP. DATE			
VALID	TO	DRIVEWAYS:	
STREET	<u>New Hope</u>	*	
AREA	QUAD	*	
TYPE		*	
FORMS			
NOTES			

Sketch (Detailed plans may be submitted)

Crew to call SJ County Inspector at **(209) 953-7421** **48 to 72 hours before work starts.**

When calling, crew shall request "rain clearance" for any work during winter months

November through March

The undersigned hereby applies for permission to excavate, construct and/or otherwise encroach on County Highway Right-of-Way on **New Hope Rd and Nowell Rd**, by performing the following work (description of work):

Approximately 1020' of trench for gas pipeline replacement, installation of two coupon test stations and traffic control on New Hope Rd and Nowell Rd - 6 day work week

Work will commence on or after 10/01/2018 for approximately 60 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.

Sam Potts
Signature of Applicant - Title

9/26/2018

Date



Department of Public Works

Kris Balaji, Director of Public Works

Fritz Buchman, Deputy Director/Development

Michael Selling, Deputy Director/Engineering

Jim Stone, Deputy Director/Operations

Kristi Rhea, Manager of Strategic Initiatives

Acknowledgement of Monument Preservation

I, Timothy Kelly, a duly Licensed Land Surveyor or a Professional Engineer
(Please print)

authorized to perform Land Surveying in the State of California, Registration No. L-7089,

hereby acknowledge and accept all responsibility for the monument preservation as required

per Section 8771(a-f) of the Business and Professions Code within the bounds of the

construction activity permitted by San Joaquin County Permit No. _____.

I further acknowledge that I am hereby responsible for the Acknowledgement of Monument

Preservation prior to final acceptance of the construction activity.

Timothy Kelly

Signature

Seal

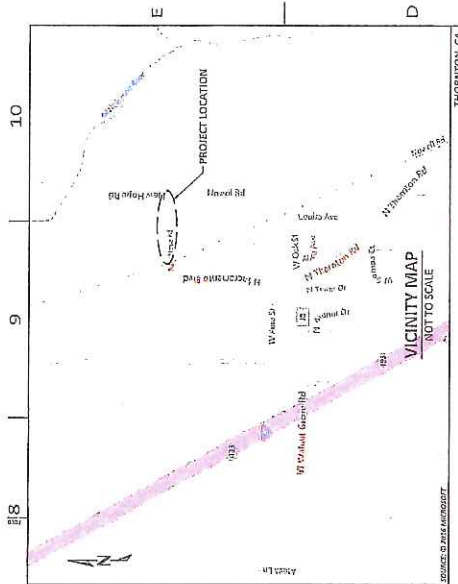
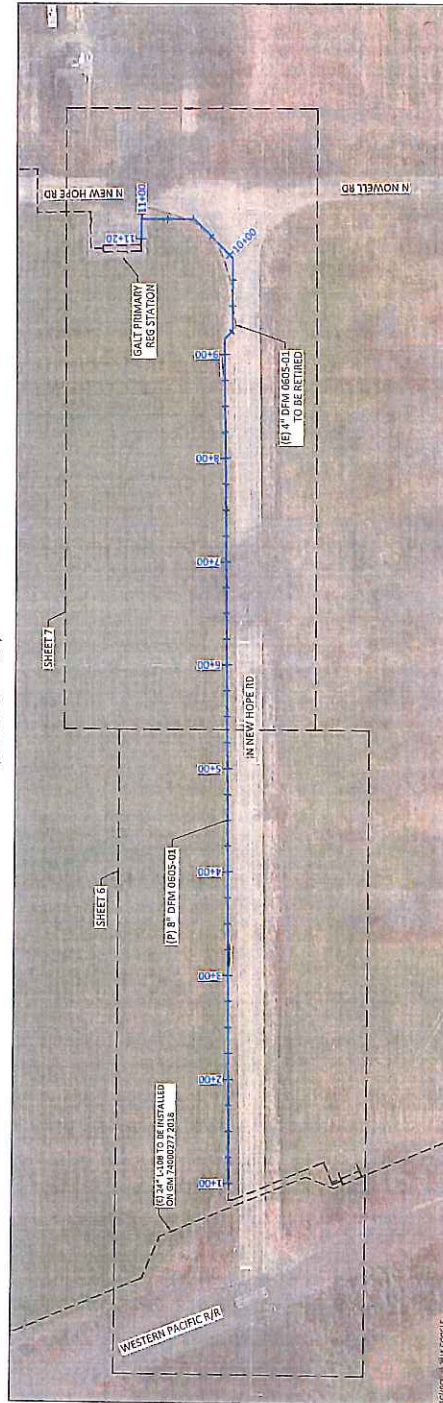
Date

PS-MONUMENT PRESERVATION



CAPITAL ORDER # 74015830

PLAN VIEW
(SCALE: 1" = 60')



SCHEDULE OF SHEETS

SHEET 1	TITLE / PLAN VIEW
SHEET 2	CONSTRUCTION STAMPS / LEGEND
SHEET 3	CONSTRUCTION NOTES
SHEET 4	POT HOLE DATA
SHEET 5	POT HOLE DATA
SHEET 6	PLAN & PROFILE
SHEET 7	PLAN & PROFILE
SHEET 8	CONSTRUCTION DETAILS
SHEET 9	CONSTRUCTION DETAILS
SHEET 10	CONSTRUCTION DETAILS
SHEET 11	CONSTRUCTION DETAILS
SHEET 12	WHEEL LOAD PLAN / BILL OF MATERIAL RETIREMENT PLAN

[illegible]

TITLE / PLAN VIEW
DFM 0605-01 MP 0.00-0.21
PIPELINE REPLACEMENT
THORNTON, CALIFORNIA
GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMP
SAN FRANCISCO, CALIFORNIA

COPY



REPLACE APPROXIMATELY 1031' OF EXISTING 4" DFM 0505-01 FROM MIP 0.00 TO MIP 0.21 WITH NEW 6" RISELINE

REPLACE APPROXIMATELY 1031' OF EXISTING 4" DFM 0505-01 FROM MP 0.00 TO MP 0.21 WITH NEW 6" PIPELINE

2. CAPITAL RETIRE 374025380
3. INSTALL 1.5" OF 6.625" OD X 0.237" WT, APL 5L, GR 6, SMLS PIPE, INSTALLED ON 370735605 (0211).
4. INSTALL 1.5" OF 6.625" OD X 0.230" WT, APL 5L, SMLS PIPE, INSTALLED ON 370735605 (0211).
5. INSTALL 8'-2" OF 1.000" OD X 0.154" WT, APL 3L, GR 8, SMLS PIPE, INSTALLED ON 370735605 (0211).
6. INSTALL ONE (1) INSULATION, ANS1000, INSTALLED ON 370735605 (0211).
7. INSTALL TWO (2) TCS STATIONS, INSTALLED ON 370735605 (0211).
8. REMOVE 1.4" OF 6.625" OD X 0.323" WT, APL 5L, GR 6, SMLS PIPE, INSTALLED ON 370735605 (0211).
9. REMOVE 1.5" OF 6.625" OD X 0.237" WT, APL 5L, GR 6, SMLS PIPE, INSTALLED ON 370735607 (0218).
10. REMOVE 950' OF 4.500" OD X 0.156" WT, 30,000 SWSWT, SMLS PIPE, INSTALLED ON 370735605 (0211).
11. REMOVE 325' OF 4.500" OD X 0.237" WT, APL 5L, GR 6, SMLS PIPE, INSTALLED ON 370735605 (0211).
12. REMOVE 1" OF 6.625" OD X 0.230" WT, APL 5L, GR 8, SMLS PIPE, INSTALLED ON 370735605 (0211).
13. REMOVE 1.5" OF 6.625" OD X 0.156" WT, 30,000 SWSWT, SMLS PIPE, INSTALLED ON 370735605 (0211).
14. RETIRE 12' OF 4.500" OD X 0.237" WT, APL 5L, GR 6, SMLS PIPE, INSTALLED ON 370735605 (0211).
15. RETIRE 325' OF 4.500" OD X 0.237" WT, APL 5L, GR 6, SMLS PIPE, INSTALLED ON 370735605 (0211).
16. RETIRE ONE (1) PCF FLOWING INSTALLED ON 370735605 (0211).
17. RETIRE ONE (1) PCF DOWNING INSTALLED ON 370735605 (0211).

* ASSUMED VALUES PER PG&E TD-4125P-09, PROCEDURE FOR RESOLVING UNKNOWN PIPELINE FEATURES

EXCAVATE AND SHORE.
ASSESS QUALITY OF EXISTING PIPE AT TE-IN LOCATIONS.
FABRICATE, INSPECT, AND TEST NEW 8" PIPE AND NEW 5" VALVE.
ISOLATE, BLOWDOWN, AND REMOVE PIPE PER APPROVED CLEARANCE.
INSTALL NEW 8" PIPE AND NEW 8" VALVE.
SOAP TEST AT 300 PSI AND NORMAL OPERATING PRESSURE.

- BACKFILL
- INSTALL PIPELINE MARKERS.
- RESTORE SITE

GENERAL REQUIREMENTS:

1. UNDERGROUND SERVICE AREA:
Call 811 (1-800-222-5800) A MINIMUM OF 2 BUSINESS DAYS (NOT INCLUDING INITIAL DAY OF CONTACT) IN ADVANCE. FOR THE MARKING OF UNDERGROUND UTILITIES, INCLUDING ALL UTILITIES, CONTACT THE UTILITY SERVICE PROVIDER TO OBTAIN SHOWN, OR EXCAVATE.
UTILITY NOTES:
a. DIMENSIONS SHOWN ON THESE DRAWINGS ARE BASED ON THE BEST AVAILABLE INFORMATION FROM SEVERAL SOURCES, AND SHALL BE VERIFIED IN THE FIELD BY CONSTRUCTION PERSONNEL.
b. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES, PROPERTY LINES, AND OTHER SUBSTRUCTURES IS NOT GUARANTEED. CONTRACTORS ARE RESPONSIBLE FOR MAKING ALL DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AND OTHER SUBSTRUCTURES AS NECESSARY TO AVOID DAMAGE OR DISRUPTION OF SERVICE TO ANY UTILITIES OR OTHER SUBSTRUCTURES.
c. PROTECTING IS REQUIRED AHEAD OF WORK. ALL OFFSETS OR TAPPING WILL NEED TO BE APPROVED BY THE REGISTRED PROFESSIONAL ENGINEER (P.E.) AND REFINED DETAILS SHOWN ON PAPER. ALL EXCAVATIONS WITHIN EXISTING STATIONS SHALL BE HAND DUG OR EXCAVATED USING SOFT DIG METHODS (e.g. VACUUM EXCAVATION OR SIMILAR).
d. ELOUDES AND FIELD BENDS:
i. ALL BENDS ARE SMOOTH FIELD BENDS, EXCEPT WHERE ELBOWS ARE SHOWN. FIELD BENDS SHALL BE APPROVED BY THE REGISTRED PROFESSIONAL ENGINEER (P.E.) BEFORE BEING USED IN FIELD.
ii. ELBOWS TO AVOID PRE-APPROVED BY THE REGISTRED PROFESSIONAL ENGINEER (P.E.).
iii. SECTIONS OF ELBOW EXCESSIVE STRAIN ON THE PIPELINE, THERE SHALL BE A MINIMUM OF 12 INCHES OF 3" TYPICAL RADIUS SECTION OF PIPELINE AND ANY ELBOWS ON FIELD BENDS.
iv. ELBOWS TO BE USED IN PLAN AND PROFILE ARE APPROXIMATE AND SHALL CUT TO SUIT FIELD CONDITIONS.

13. COATING REMOVAL:

1. REFER TO THE TEXTING PIPE SPEC (HSE-18721) STAMP TO DETERMINE IF A SAMPLE HAS BEEN COLLECTED OR IF A SAMPLE IS REQUIRED.
2. WHEN A PIPE SAMPLE IS REQUIRED TO BE ANALYZED FOR ASBESTOS:
 - a. COLLECT SAMPLE PER TD-471P-01 AND COMPLETE CHAIN OF CUSTODY FORM TD-471P-01-02-03
 - b. WITH THE CHAIN OF CUSTODY FORM AND FINAL LABORATORY RESULTS WITH THE AS-BUILTS
3. WHEN REMOVING PIPE WRAP THAT CONTAINS ASBESTOS OR FOR EMERGENCY WORK, FOLLOW TD-471P-01 "PIPE WRAP REMOVAL, HANDLINGS, AND DISPOSAL".

THE PERSON FILLING OUT THE

- THE PERSON FILLING OUT THE A-90 (FORM 12-0110P-03-001) IS RESPONSIBLE FOR BOTH THE INTERNAL CORROSION AND EXTERNAL CORROSION INSPECTION OF THE PIPELINE.
- UPON COMPLETION OF BORINGS, CONTACT THE SUPERVISOR FOR THE LOCAL AREA/SECTION TO PERFORM CURRENT DRAIN TESTS ON THE PIPELINE SEGMENT THAT THE BORING WAS MADE. THE DRAIN TEST MUST BE PERFORMED PRIOR TO WELDING PIPE ON EITHER SIDE OF THE BORE.
- FOR THE INSTALLATION OF THE OMMINUTER (RECTIFIER REMOTE MONITOR, CONTACT THE CORROSION SUPERVISOR FOR THE LOCAL AREA/SECTION.
- BONDING CABLES TO BE INSTALLED ACROSS PIPELINE CUT-OUTS AT ALL LOCATIONS THE PIPELINE IS SEVERED PRIOR TO REMOVAL. CHAIN CLAMPS, MAGNETIC CLAMPS, OR OTHER UTILIZED. CLAMPS MUST BE INSTALLED TO THE PIPELINE AND THE STRANDED CABLE SHALL BE UTILIZED. CLAMPS TO REMAIN IN PLACE UNTIL THE PIPELINE IS REINSTALLED.

GT&D UTILITY WORK PROCEDURE TO 9500

- [illegible]

MAINTENANCE AND CONSTRUCTION

MAINTENANCE AND CONSTRUCTION PERSONNEL MUST OBTAIN APPROVAL FROM THE PROJECT ENGINEER (PED) BEFORE MAKING ANY DESIGN CHANGE TO GAS FACILITIES PER TD-4014P-01.

"H" STATIONING

- [illegible]

CONSTRUCTIONAL BAYAN-CPN

[illegible]

OPERATING MAP	---	WATERLOO RD & "D" ST R	---	---
0851160	---	REG STA LINE 108 (REV 80)	---	---
OPERATING DIAGRAM	---	---	---	---
0800438	---	GALT PRIMARY REGULATOR	---	---
AS-BUILTS	---	---	---	---
0778765	---	GAS DISTRIBUTION	---	---
DPLAT_201208260321	---	PRINTED 06/21/12	---	---
0070735635	---	GALT PRIMARY DST REG B	---	---
4000277	---	R-515 L-108 MP 45.93 - 49	---	---
	---	THORNTON, SAND JOACU	---	---

COPY

CONSTRUCTION NOTES
DFM 0605-01 MP 0.00-0.2
PIPELINE REPLACEMENT
THORNTON, CALIFORNIA
GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

[illegible]

TRAINING:

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OR ITS AGENTS.

811

Know what's below.
Call before you dig.

O

**ZERO IN ON
SAFETY**

© PG&E CO.

INTERNAL CORROSION (IC) DESIGN & CONSTRUCTION REVIEW				
YES	NO	IC THREAT (PER RMP-15)	IC REVIEW COMPLETED BY	
			(CORROSION ENGINEER ON DESIGNATE)	DATE
X			CORROSION ENGINEERING HAS REVIEWED THIS DESIGN AND INCORPORATED ANY NECESSARY IC DESIGN AND CONSTRUCTION REQUIREMENTS INTO THE DESIGN. THE REVIEW AND ACTIONS TAKEN ARE IN THE JOB PACKAGE AND INCORPORATED IN THIS DESIGN.	6/14/12/18
EDIS ROUTING NUMBERS:				
2018-54094				

ROPING TABLE			
MINIMUM DISTANCE REQUIRED TO ROPE AN OFFSET OF 8.63 INCH (0.108 METER) AT 14750 X52 HYR PIPE			
MINIMUM ROPING RADIUS = 950 FEET			
			
Y	X	Y	X
1.0	62	3.0	107
1.5	75	3.5	115
2.0	87	4.0	121
2.5	97	4.5	126
3.0	107	5.0	130

ⓧ ELECTRIC TOWER

FOREIGN MANHOLE

COPY

CONSTRUCTION STAMPS / LEGEND
DFM 0605-01 MP 0.00-0.21
PIPELINE REPLACEMENT
THORNTON, CALIFORNIA
GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

[illegible]

NO	DATE	DESCRIPTION	REVISION
1	07/26/18	CHANGED "A" DIM FOR VALVE-V1	
0	09/19/18	ISSUED FOR CONSTRUCTION	

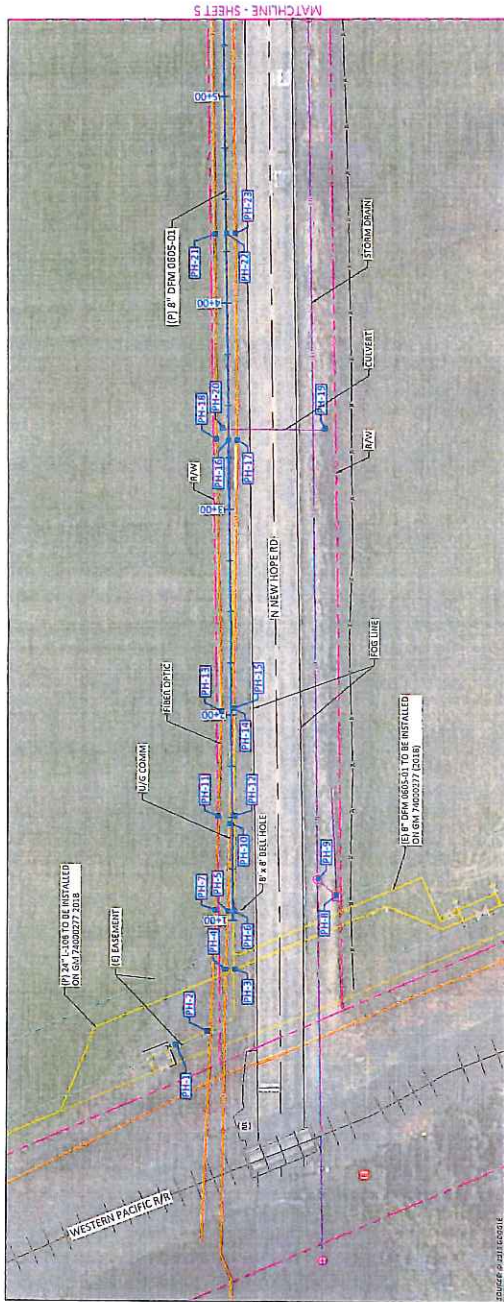
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811

Know what's below. Call before you dig.

ZERO IN ON SAFETY

1 2 3 4 5 6 7 8 9 10



POTHOLE DATA									
POTHOLE IDENTIFYING NUMBER	UTILITY TYPE	UTILITY DIA (IN)	UTILITY OWNER	DISTANCE LEFT OR RIGHT OF CL	"H" PIPELINE STATION	LATITUDE	LONGITUDE	DEPTH OF COVER TO TOP OF UTILITY (IN)	PAVING THICKNESS (IN)
1	GAS	4"	PG&E	N/A	N/A	38.232101	-121.427788	64.9	SOIL
2	GAS	4"	PG&E	N/A	N/A	38.232059	-121.427764	62.3	SOIL
3	GAS	4"	PG&E	7.5 L	N/A	38.232033	-121.427660	68.9	SOIL
4	CONV	4"	PG&E	N/A	N/A	38.232086	-121.426660	55.2	SOIL
5	CONV	4"	PG&E	2.4 L	N/A	38.232033	-121.422562	47.8	SOIL
6	FO	4"	PG&E	8.6 L	1+01.6	38.232053	-121.422561	77.0	SOIL
7	FO	4"	PG&E	8.6 L	1+01.6	38.232053	-121.422561	77.0	SOIL
8	SD	4"	PG&E	30.6 R	1+11.7	38.231680	-121.423193	25.3	SOIL
9	SD	4"	PG&E	42.1 R	1+20.0	38.231912	-121.423205	26.4	SOIL
10	CONV	4"	PG&E	8.9 L	1+47.0	38.232051	-121.423414	34.2	SOIL
11	FO	4"	PG&E	8.9 L	1+49.8	38.232048	-121.423401	60.0	SOIL
12	GAS	4"	PG&E	3.4 R	1+52.9	38.232025	-121.422601	58.2	SOIL
13	FO	4"	PG&E	4.8 L	2+01.7	38.232045	-121.422224	57.4	SOIL
14	GAS	4"	PG&E	1.1 R	2+03.0	38.232029	-121.422219	65.4	SOIL
15	CONV	4"	PG&E	1.0 R	2+03.1	38.232029	-121.422219	23.2	SOIL
16	GAS	4"	PG&E	0.0 L	3+33.4	38.232040	-121.421766	51.4	SOIL
17	CONV	4"	PG&E	4.3 R	3+33.4	38.232028	-121.421765	26.4	SOIL
18	FO	4"	PG&E	6.0 L	5+34.0	38.232055	-121.421764	41.3	SOIL
19	SD	4"	PG&E	47.6 R	9+38.4	38.231909	-121.421745	15.8	SOIL
20	FO	4"	PG&E	2.9 L	8+35.2	38.232046	-121.421745	48.0	SOIL
21	GAS	4"	PG&E	5.4 L	4+33.5	38.232060	-121.421417	52.4	SOIL
22	CONV	4"	PG&E	0.4 R	4+33.7	38.232044	-121.421418	32.6	SOIL

* FIELD TO VERIFY DURING CONSTRUCTION

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REVISIONS	NO.	DATE	DESCRIPTION	BY	CHKD	APP'D
1	10/2/2018	CHANGED "X" ONLY FOR VALUE "X"	3/23/2018	35	35	35
2	10/2/2018	CHANGED "X" ONLY FOR VALUE "X"	3/23/2018	35	35	35

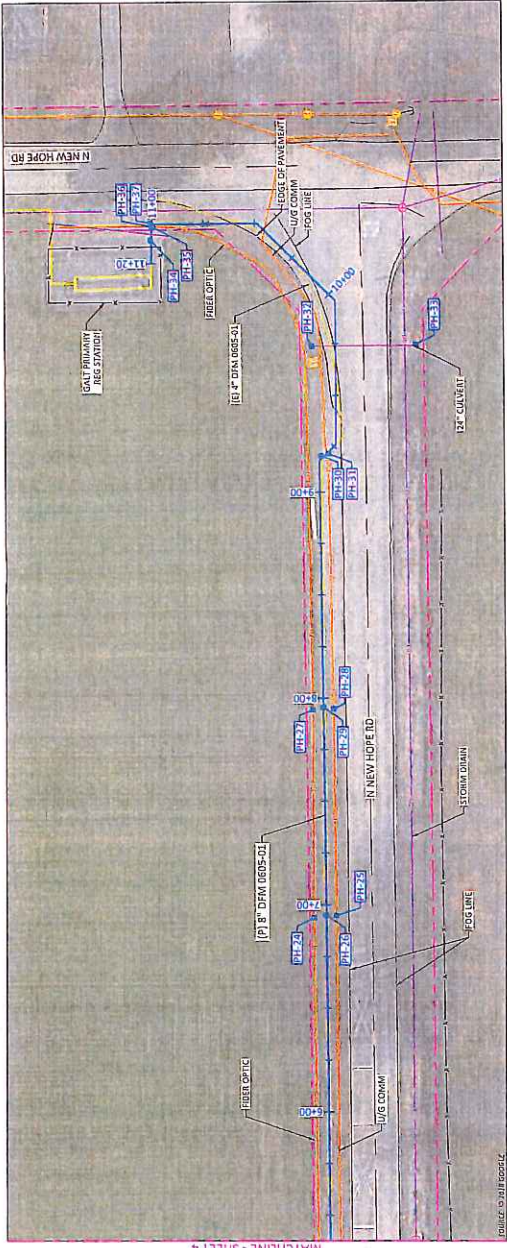
POT HOLE DATA
DPM 0605-01 MP 0.00-0.21
PIPELINE REPLACEMENT
THORNTON, CALIFORNIA
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

R-1113
74015830 1

COPY

GTS
GAS TRANSMISSION SYSTEMS
1000 BAYVIEW BLVD, SUITE 200
SAN FRANCISCO, CA 94134
PHONE: 415.774.1000

1 2 3 4 5 6 7 8 9 10



POT HOLE DATA

POT HOLE IDENTIFYING NUMBER	UTILITY TYPE	UTILITY DIA (IN)	UTILITY OWNER	DISTANCE LEFT OR RIGHT OF CL	"H" PIPELINE STATION	LATITUDE	LONGITUDE	DEPTH OF COVER TO TOP OF UTILITY (IN)	PAVING TYPE	THICKNESS (IN)	BASE MATERIAL TYPE	DEPTH (FT)	GROUND WATER DEPTH (FT)	NOTES
24	FO			5.9 L	6493.9	38.332077	-121.430511	43.8	SOIL		SOIL			
25	COMM			4.7 R	6494.7	38.332048	-121.430507	34.9	SOIL		SOIL			
26	GAS	4"	PG&E	0.2 L	6495.0	38.332051	-121.430507	61.6	SOIL		SOIL			
27	FO			5.2 L	7494.4	38.332050	-121.430161	45.0	SOIL		SOIL			
28	COMM	4"		4.8 R	7494.7	38.332053	-121.430159	33.8	SOIL		SOIL			
29	GAS	4"	PG&E	0.0 L	7495.5	38.332066	-121.430157	56.2	SOIL		SOIL			
30	GAS	4"	PG&E	1.3 L	9475.5	38.332071	-121.435782	47.4	SOIL		SOIL			
31	COMM	4"	PG&E	0.5 R	9470.5	38.332052	-121.435729	31.3	SOIL		SOIL			
32	SD			11.4 L	9473.8	38.332055	-121.435543	58.1	SOIL		SOIL			
33	SD			39.2 R	9474.5	38.332046	-121.435543	40.9	SOIL		SOIL			
34	GAS	4"	PG&E	0.4 R	11405.2	38.332301	-121.435970	42.7	SOIL		SOIL			
35	FO			0.8 L	11402.1	38.332398	-121.435949	52.2	SOIL		SOIL			
36	GAS	4"		0.1 L	11401.8	38.332399	-121.435948	52.2	SOIL		SOIL			
37	GAS	4"		N/A	N/A	38.332301	-121.435941		SOIL		SOIL			

* FIELD TO VERIFY DURING CONSTRUCTION

COPY



POT HOLE DATA
DFM 0605-01 MP 0.00-0.21
PIPELINE REPLACEMENT
THORNTON, CALIFORNIA
GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

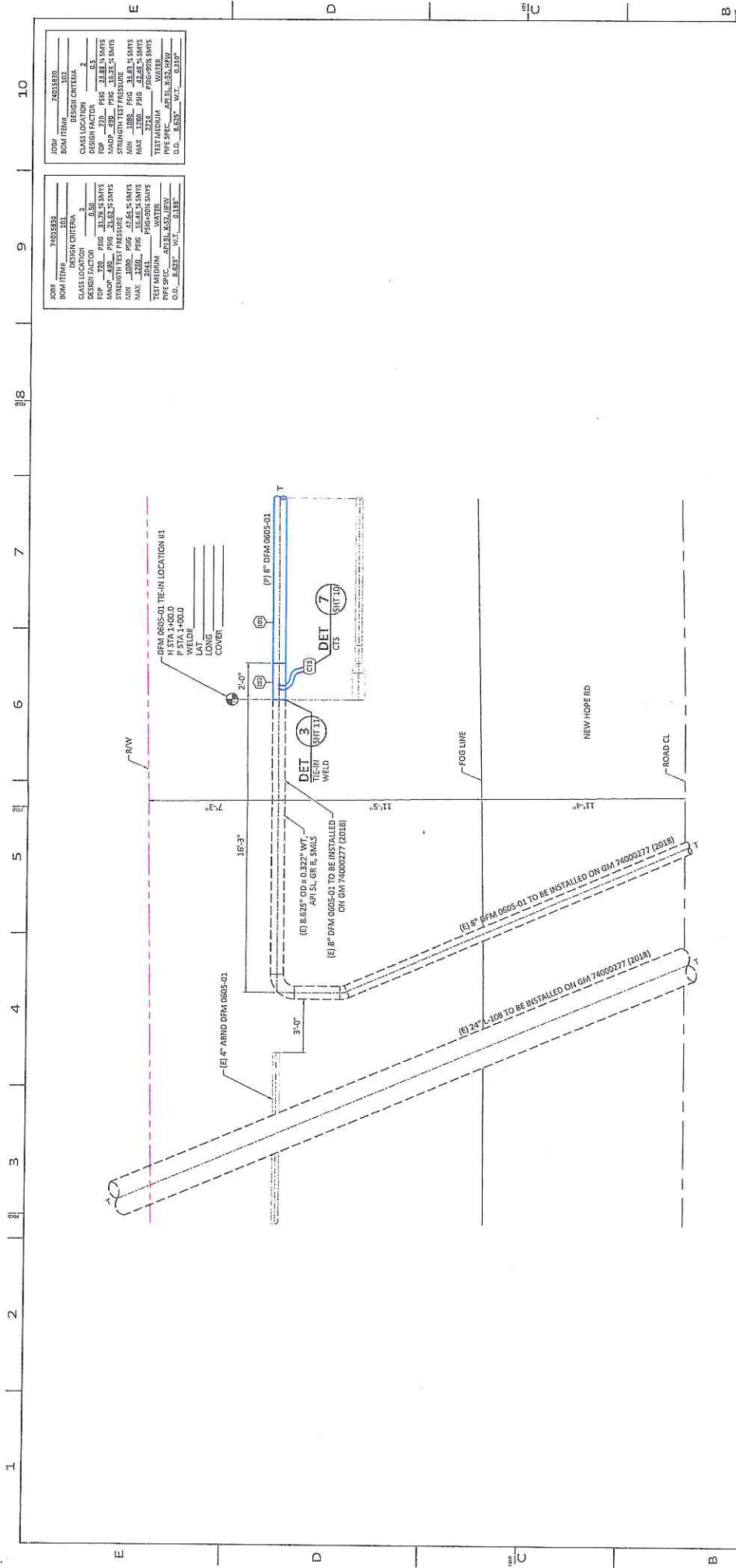
REVISIONS	NO.	DATE	DESCRIPTION
1	07/17/11		CHANGED TO 72 FOR VALVE V4
2	07/17/11		REMOVED FROM SHEET
3	07/17/11		REMOVED FROM SHEET
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ZERO IN ON SAFETY

PROJECT NO. 74015830
SHEET NO. 5 OF 12 SHEETS
R-1113
DATE: 07/17/11
BY: [Signature]



DETAIL 1
SCALE 3/8" = 1'

1 TIE-IN CONFIGURATION
SHIFT 5 N NEW HOPE RD

CONSTRUCTION DETAILS
DFM 0605-01 MP 0.00-0.21
PIPELINE REPLACEMENT
THORNTON, CALIFORNIA
GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION	BY	CHKD	APP'D
1	01/11/18	CONCRETE WATER VALVE V-1	JB	JB	JB
2	01/11/18	EXCISE FOR CONSTRUCTION	JB	JB	JB
3	01/11/18	REVISION	JB	JB	JB
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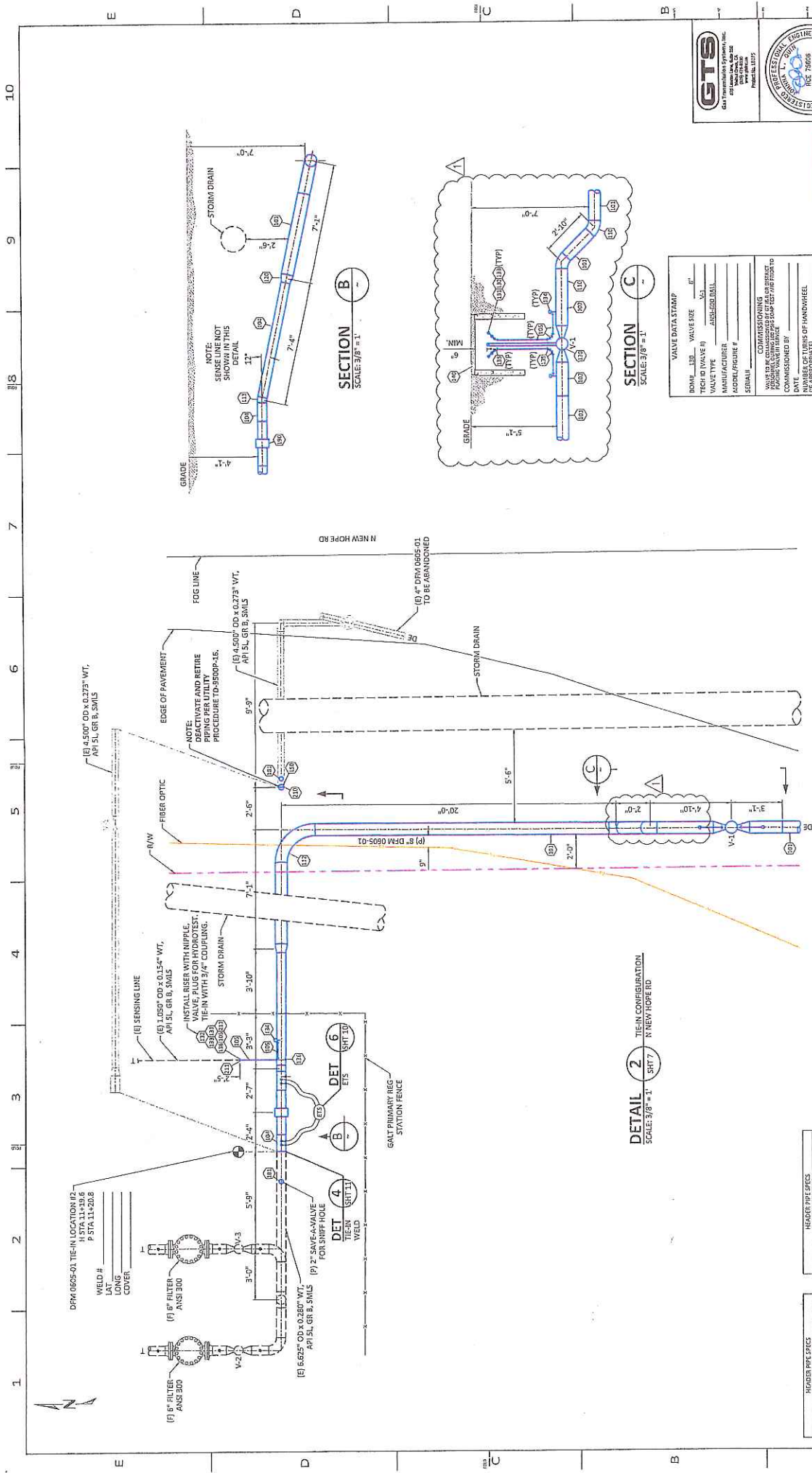
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CONSTRUCTION DETAILS
DFM 0605-01 MP 0.00-0.21
PIPELINE REPLACEMENT
THORNTON, CALIFORNIA
GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION	BY	CHKD	APP'D
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COPY



VALVE DATA STAMP

BOHM	132	VALVE SIZE	8"
TECH ID (VALVE #)	V-1	VALVE TYPE	ANSI 500 BALL
MANUFACTURER		ASSEMBLY #	
DATE		COMMISSIONED BY	
CONSTRUCTION NOTES: VALVE TO BE INSTALLED IN THE FIELD. THE VALVE SHALL BE INSTALLED IN THE FIELD AND SHALL BE INSTALLED IN THE FIELD AND SHALL BE INSTALLED IN THE FIELD. THE VALVE SHALL BE INSTALLED IN THE FIELD AND SHALL BE INSTALLED IN THE FIELD. THE VALVE SHALL BE INSTALLED IN THE FIELD AND SHALL BE INSTALLED IN THE FIELD.			

SECTION B
SCALE: 3/8" = 1'

SECTION C
SCALE: 3/8" = 1'

DETAIL 2
SCALE: 3/8" = 1'

REVISIONS

NO.	DATE	BY	REVISION
1	08/11/2016	WJL	ISSUED FOR CONSTRUCTION
2	08/11/2016	WJL	ISSUED FOR CONSTRUCTION

HEADLINE PIPE SPECS

ITEM	DESCRIPTION	QUANTITY	UNIT
1	8" DIA. 11.315 WT. API 5L GR. B, SMLS	1.00	LINEAL FEET
2	8" DIA. 11.315 WT. API 5L GR. B, SMLS	1.00	LINEAL FEET

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CONSTRUCTION DETAILS
 DFM 0605-01 MP 0.00-0.21
 PIPELINE REPLACEMENT
 THORNTON, CALIFORNIA
 GAS TRANSMISSION & DISTRIBUTION
 PACIFIC GAS AND ELECTRIC COMPANY
 SAN FRANCISCO, CALIFORNIA

74015830
 SHEET NO. 9 OF 22 SHEETS
 R-1113
 SHEET LIST

RETIREMENT PLAN LOCATION & DETAILS

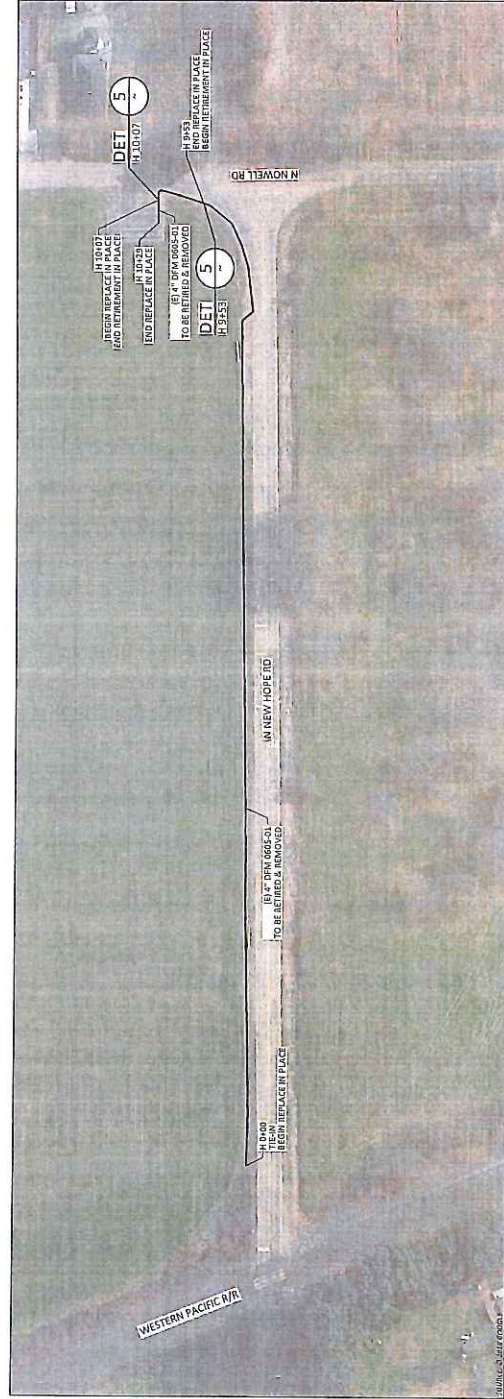


ISOMETRIC VIEW

DETAIL 5
SCALE: NO SCALE

TYPICAL RETIREMENT PROCEDURE
BOTTOM

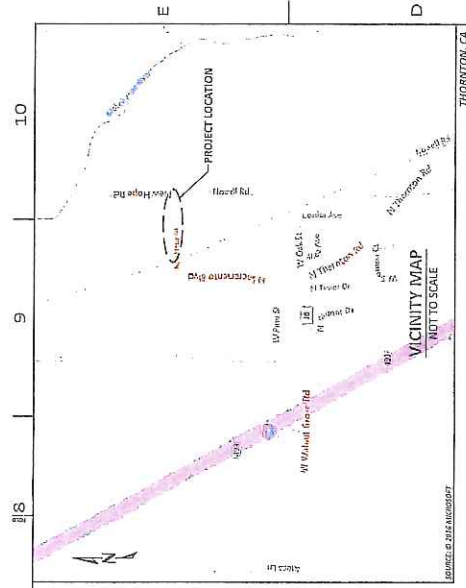
PLAN VIEW



RETIREMENT PROCEDURE FOR EXISTING PIPE

1. GTSD UTILITY WORK PROCEDURE TO 9500P-16, "RETIREMENT AND/OR RETIREMENT OF UNDERGROUND GAS PIPELINES".
2. THE EXISTING PIPE SECTIONS SHALL HAVE FREE LIQUIDS REMOVED AND BE 100% PURGED PER GAS DESIGN STANDARD A-38, "PROCEDURES FOR PURGING GAS FACILITIES".
3. THE PIPE SHALL BE SECTIONALIZED AT INTERVALS AS SPECIFIED IN THE RETIREMENT PLAN. THE LOCATIONS OF THE SECTIONALIZED PIPE SHALL BE IDENTIFIED BY FIELD VERIFICATION TO IDENTIFY THE MOST OPTIMUM LOCATION FOR THE RETIREMENT. THE RETIREMENT SHALL BE MADE IN THE AREA OF THE PIPE LOCATIONS SO USE CAUTION DURING EXCAVATION AND WHEN IDENTIFYING THE PIPELINE TO BE RETIRED.
4. OTHER ACTIVE PIPELINES MAY BE IN THE AREA.
 - A. AT EACH SUCH LOCATION NOTED ABOVE, A PIECE OF PIPE AT LEAST 24" LONG SHALL BE REMOVED. INSTALL A CHECK FOR PRODUCT AND PRESSURE PRIOR TO CUTTING INTO THE PIPELINE. THE OPEN ENDS OF THE RETIRED PIPE SHALL BE PROTECTED BY AN APPROPRIATE METHOD OUTLINED IN GTSD UTILITY WORK PROCEDURE TO 9500P-16. BACKFILL MUST BE THOROUGHLY COMPACTED IN PLACE OF THE REMOVED SECTION OF PIPE.

PLAN VIEW
(SCALE: 1" = 60')



THORNTON, CA



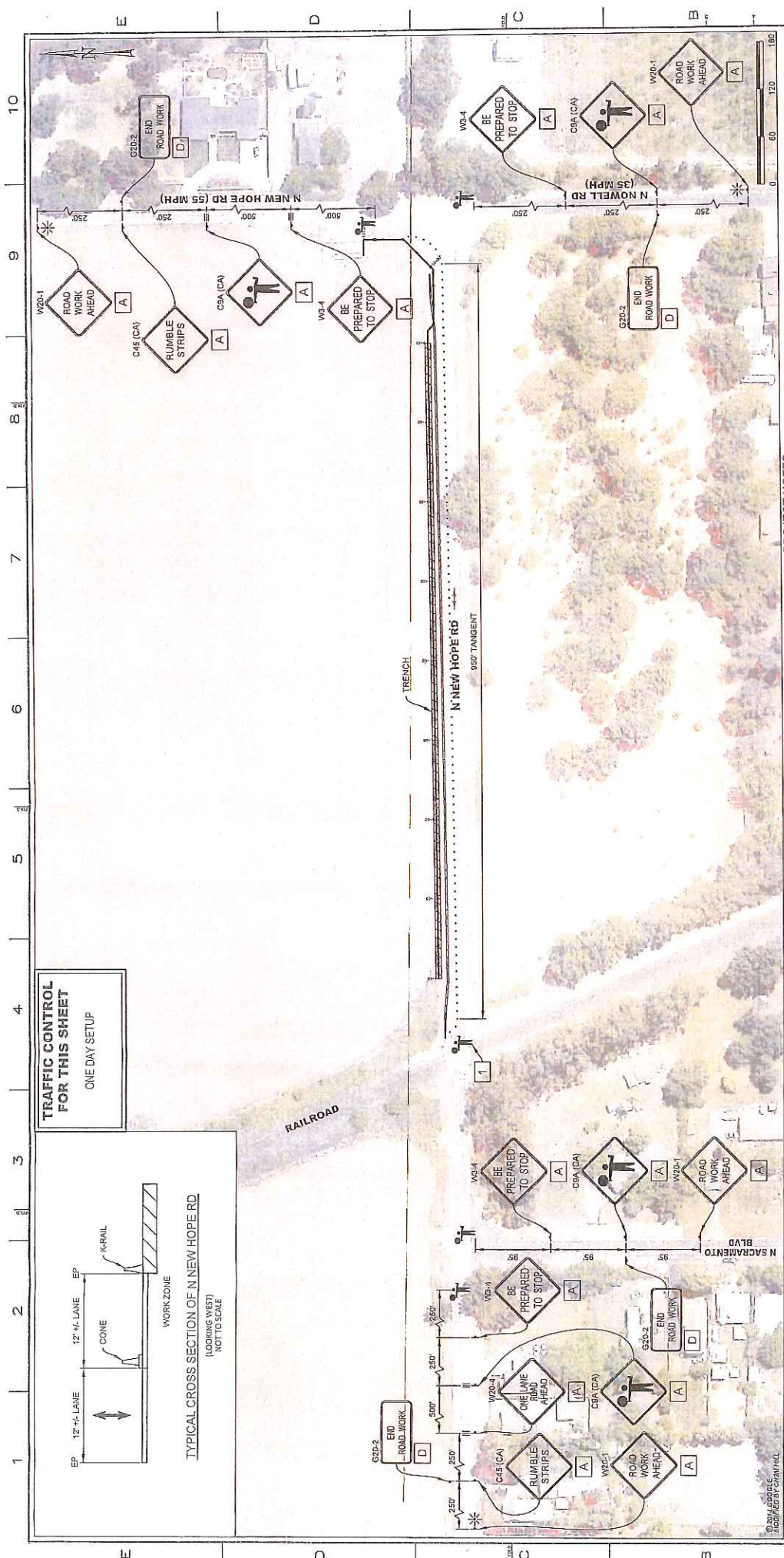
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RETIREMENT PLAN
DFM 0505-01 MP DOP-0.21
PIPELINE REPLACEMENT
THORNTON, CALIFORNIA
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

DATE	BY	REVISION
05/05/01	DFM	01
05/05/01	DFM	02
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TRAFFIC CONTROL FOR THIS SHEET
ONE DAY SETUP

TYPICAL CROSS SECTION OF N NEW HOPE RD
(LOOKING WEST)
NOT TO SCALE

LEGEND

- CHANNELIZER (SPACING PER TABLE 1 ON CALTRANS STD PLAN T9)
- TEMPORARY SIGN POST
- PORTABLE FLASHING BEACON
- TRAFFIC FLOW DIRECTION
- TEMPORARY 20' CONCRETE RAIL (TYPE K)
- CRASH CUSHION (ABSORB NO. 15P 30' TL-3 ELEMENT SYSTEM)
- RUMBLE STRIP (SEE SHEET T13 ON CALTRANS STD PLAN)

CONTRACTOR NOTES:

- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND CALTRANS STANDARD PLANS AND SPECIFICATIONS.
- THE LOCAL FIRE DEPARTMENT, CALIFORNIA HIGHWAY PATROL, LOCAL SCHOOL DISTRICT, TRANSIT SERVICE PROVIDERS, AND UNITED STATES POSTAL SERVICE SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF CONSTRUCTION WORK.
- CONTRACTOR SHALL MAINTAIN ADEQUATE ACCESS FOR THE REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS RESULTING FROM THE CONSTRUCTION WORK. THIS SHALL INCLUDE THE REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS RESULTING FROM THE CONSTRUCTION WORK.
- EACH ADVANCED WARNING SIGN ON EACH SIDE OF THE ROADWAY SHALL BE EQUIPPED WITH AT LEAST TWO FLASHING BEACONS. FLASHING BEACONS SHALL BE PLACED AT THE LOCATION INDICATED FOR LANE CLOSURE DURING HOURS OF DARKNESS.
- ALL WORKERS SHALL BE EQUIPPED WITH A REFLECTIVE VEST AND HARD HAT. ALL FLAGGERS SHALL ALSO BE EQUIPPED WITH A C28 "STOP/GO" NO PARKING SIGN. SIGNS SHALL BE PLACED 72 HOURS PRIOR TO SET UP. SIGNS SHALL BE POSTED EVERY 25 LINEAR FEET OF OCCUPIED SPACE WITH AT LEAST ONE SIGN AT EACH END OF OCCUPIED SPACE.
- ANY CONFLICTING SIGNS WILL BE COVERED FOR THE LENGTH OF THE JOB.
- CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE AND DRIVEWAY ACCESS AT ALL TIMES.
- CONTRACTOR SHALL MAINTAIN ADEQUATE ACCESS FOR ALL UTILITIES. WHEN CONTRACTOR CLOSURES OWN SET UP OR MAKES CHANGES TO THE ORIGINAL TRAFFIC CONTROL PLAN.
- COUNTY ENGINEER OR HIS REPRESENTATIVE HAS THE AUTHORITY TO INITIATE FIELD CHANGES TO ASSURE PUBLIC SAFETY.
- CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PLAN FOR CONSTRUCTION AREAS WHICH ARE NOT COVERED BY THESE TRAFFIC CONTROL PLANS ARE ACCURATE FOR TRAFFIC CONTROL WORK ONLY. PIPELINE LOCATION IS APPROXIMATE AND FOR REFERENCE ONLY.
- CONTRACTOR SHALL PLATE EXCAVATED AREA DURING NON-WORKING HOURS.

PROJECT NOTES

- CONTRACTOR SHALL PROVIDE RAILROAD FLAGGER TO WATCH OUT FOR APPROACHING TRAINS AND COORDINATE WITH OTHER FLAGGERS TO STOP TRAFFIC AND CLEAR ALL TRAFFIC FROM TRACK WHEN TRAIN IS APPROACHING.

REVISIONS

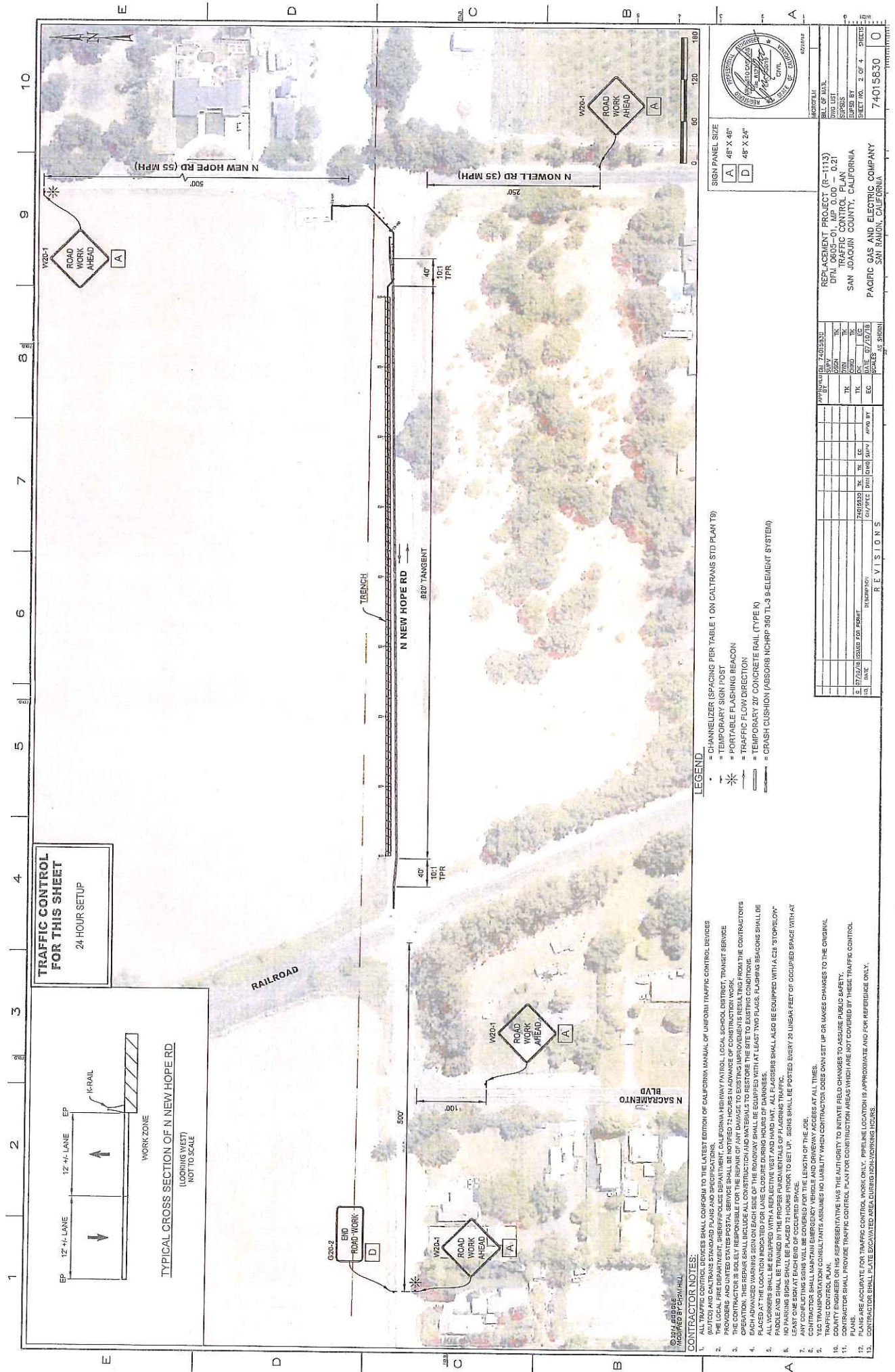
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K-RAIL INSTALLATION/REMOVAL

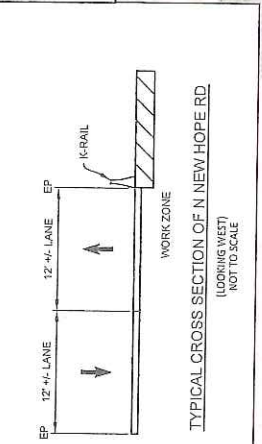
REPLACEMENT PROJECT (R-1113)
DFA 0605-01, NP 0.00 - 0.21
TRAFFIC CONTROL PLAN
SAN JOAQUIN COUNTY, CALIFORNIA
PACIFIC GAS AND ELECTRIC COMPANY
SAN JOAQUIN, CALIFORNIA

DATE: 10/10/18
BY: EC
CHKD: EC
APP'D: EC

SHEET NO. 1 OF 4
SHEET NO. 74015830



TRAFFIC CONTROL
FOR THIS SHEET
24 HOUR SETUP



TYPICAL CROSS SECTION OF N NEW HOPE RD
(LOOKING WEST)
NOT TO SCALE

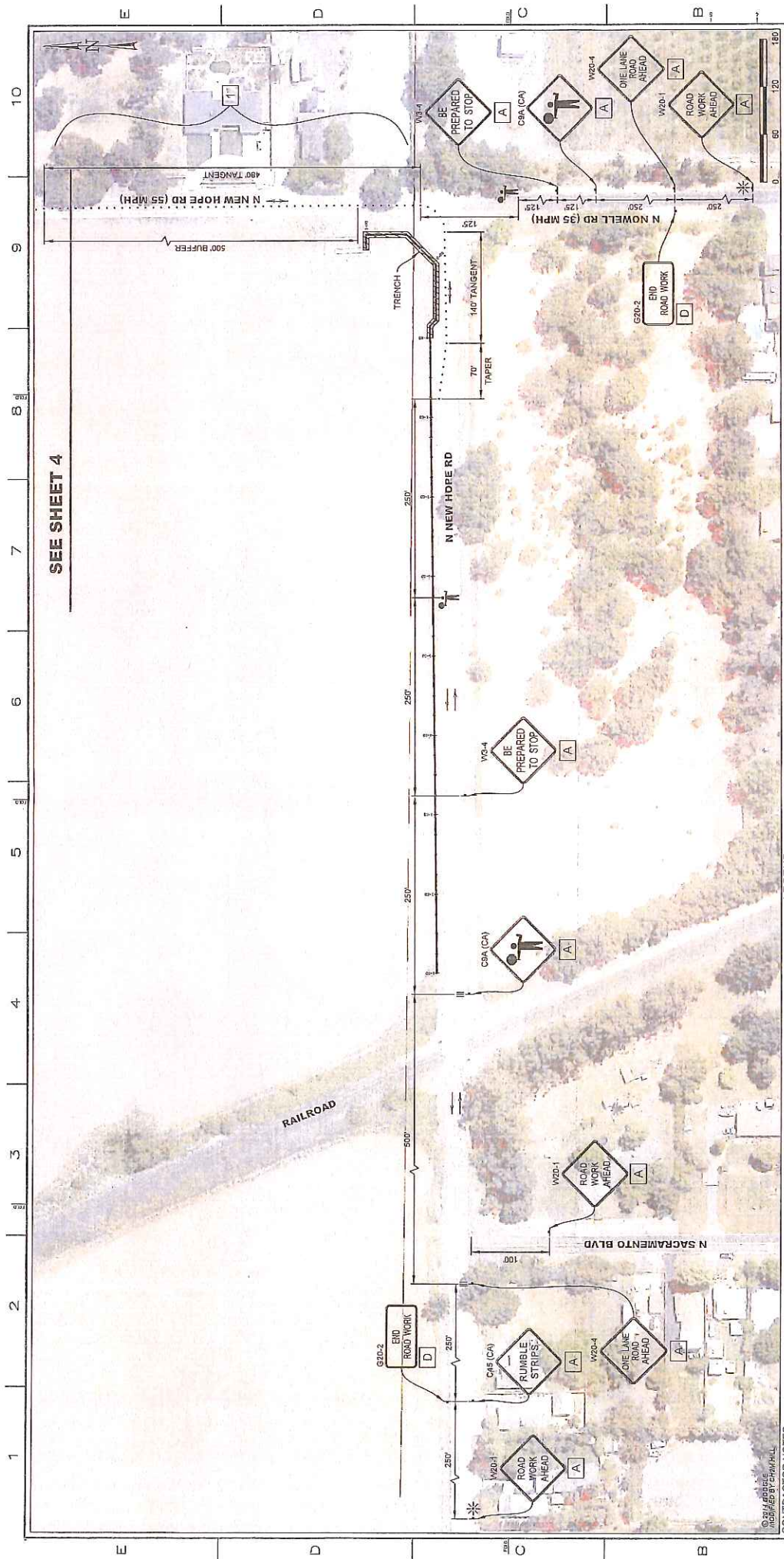
- LEGEND
- CHANNELIZER (SPACING PER TABLE 1 ON CALTRANS STD PLAN T9)
 - TEMPORARY SIGN POST
 - PORTABLE FLASHING BEACON
 - TRAFFIC FLOW DIRECTION
 - TEMPORARY 20' CONCRETE RAIL (TYPE K)
 - CRASH CUSHION (ABSORB NCHRP 350 TL-3 B-ELEMENT SYSTEM)

- CONTRACTOR NOTES:
- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND CALTRANS STANDARD PLANS AND SPECIFICATIONS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER AND TIMELY SET-UP AND MAINTENANCE OF ALL TRAFFIC CONTROL DEVICES.
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REPLACEMENT PROJECT (R-1113)
DPI 0605-01, NP 0.00 - 0.21
TRAFFIC CONTROL PLAN
SAN JOAQUIN COUNTY, CALIFORNIA
PACIFIC GAS AND ELECTRIC COMPANY
SAN JOAQUIN, CALIFORNIA

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SEE SHEET 4

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CONTRACTOR NOTES:

- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND CALIFORNIA STANDARD PLANS AND SPECIFICATIONS.
- THE LOCAL FIRE DEPARTMENT, INTERSPELLEA COUNTY DEPARTMENT OF CALIFORNIA HIGHWAY PATROL, LOCAL SCHOOL DISTRICT, TRANSIT SERVICE AND THE LOCAL PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED OF ANY CHANGES TO THE TRAFFIC CONTROL PLAN PRIOR TO THE COMMENCEMENT OF THE PROJECT.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PREVENT OF ANY DAMAGE TO EXISTING IMPROVEMENTS RESULTING FROM THE CONTRACTORS OPERATION. THIS WARNING SHALL INCLUDE ALL CONSTRUCTION MATERIALS TO RESTORE THE SITE TO EXISTING CONDITIONS.
- EACH ADVANCED WARNING SIGN ON EACH SIDE OF THE ROADWAY SHALL BE EQUIPPED WITH AT LEAST TWO FLASHING BEACONS SHALL BE PLACED AT THE FOLLOWING DISTANCES:
- ALL WORKERS SHALL BE EQUIPPED WITH A REFLECTIVE VEST AND HARD HAT. ALL WORKERS SHALL ALSO BE EQUIPPED WITH A C-39 "STOP/LOW PADDLE" AND SHALL BE TRAINED IN THE PROPER PLACEMENTS OF FLASHING TRAFFIC.
- NO PARKING SIGNS SHALL BE PLACED PRIOR TO SET UP. SIGNS SHALL BE POSTED EVERY 30' UNLESS SET OF OCCUPIED SPACE WITH AT LEAST ONE CONFLICTING SIGN SHALL BE PLACED PRIOR TO SET UP.
- ANY CONSTRUCTION SIGNAL SHALL BE COVERED WITH THE LENGTH OF THE JOB.
- CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE AND WALKWAY ACCESS AT ALL TIMES.
- TRAFFIC TRANSPORTATION CONTINGENTS ASSUMES NO LIABILITY WHENEVER CONTRACTORS DOES OWN SET UP OR KANIGAS CHANGES TO THE ORIGINAL CONTRACTED TRAFFIC CONTROL PLAN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRAFFIC CONTROL PLAN TO MAINTAIN THE SAFETY OF THE PUBLIC.
- THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PLAN FOR CONSTRUCTION AREAS WHICH ARE NOT COVERED BY THE TRAFFIC CONTROL PLANS.
- ALL CHANGES TO TRAFFIC CONTROL WORK ONLY. REFERENCE LOCATION IS APPROXIMATE AND FOR REFERENCE ONLY.

LEGEND

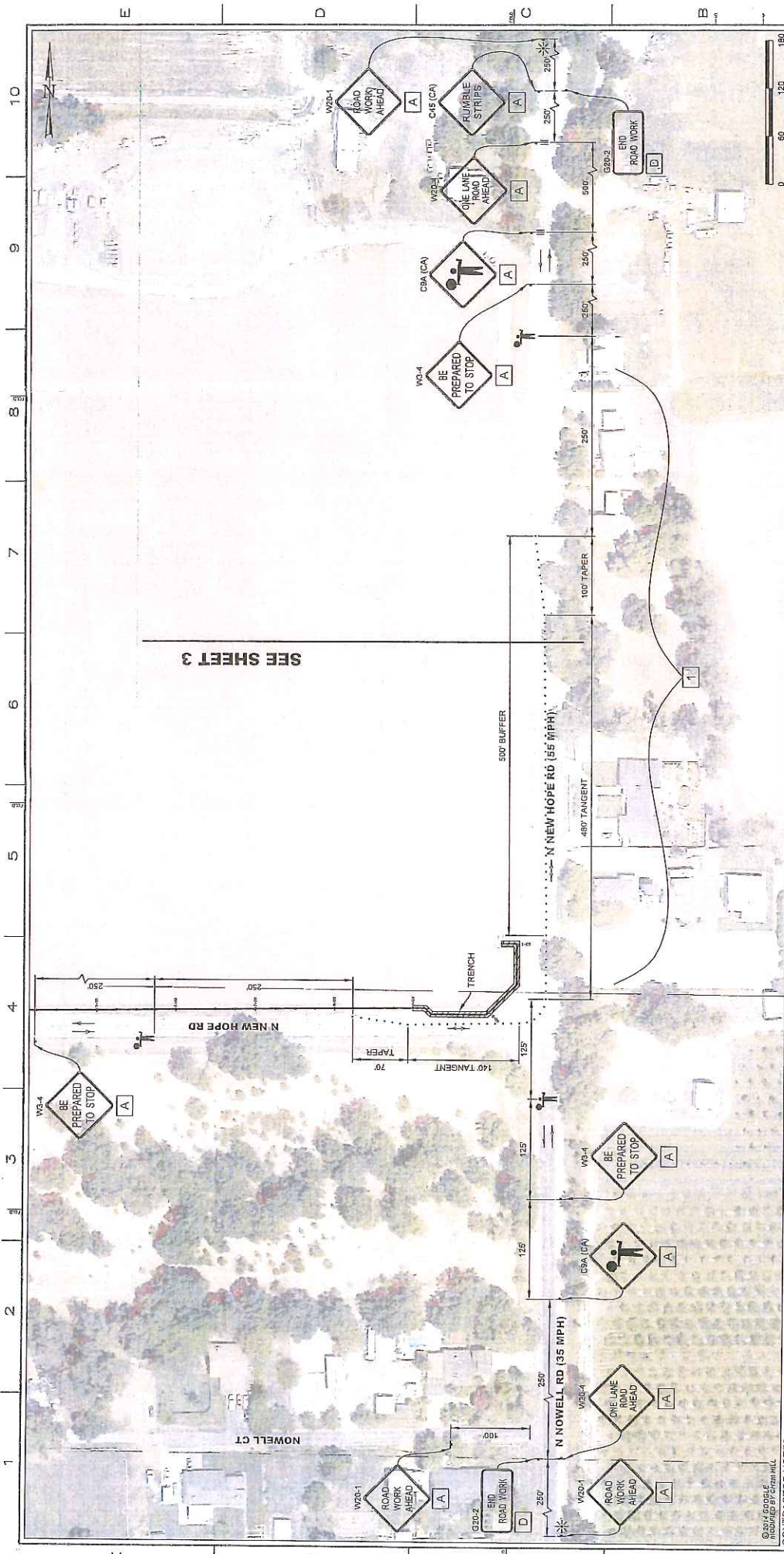
- LEGEND**
- = CHANNELIZER (SPACING PER TABLE 1)
 - = TEMPORARY SIGN POST
 - * = PORTABLE FLASHING BEACON
 - = TRAFFIC FLOW DIRECTION

PROJECT NOTES

- | | |
|---|--|
| 1 | PROVIDE ADDITIONAL FLAGGER AS NECESSARY. |
|---|--|

[illegible]

REPLACEMENT PROJECT (R-1113)
DFM 0605-01, MP 0.00 - 0.21
TRAFFIC CONTROL PLAN
SAN JOAQUIN COUNTY, CALIFORNIA



CONTRACTOR NOTES:

- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- THE LOCAL FIRE DEPARTMENT, SHERIFF'S OFFICE, CALIFORNIA HIGHWAY PATROL, LOCAL SCHOOLS, DISTRICT TRANSIT SERVICE PROVIDERS AND UNITED STATES POSTAL SERVICE SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF CONSTRUCTION WORK.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS RESULTING FROM THE CONTRACTOR'S WORK. THE CONTRACTOR SHALL REPAIR ALL DAMAGE TO EXISTING IMPROVEMENTS TO RESTORE THEM TO THE SAME CONDITION AS BEFORE THE WORK.
- EACH ADVANCED WARNING SIGN SHALL BE PLACED AT THE LOCATION INDICATED FOR LANE CLOSURE DURING HOURS OF DARKNESS.
- ALL WORKERS SHALL BE EQUIPPED WITH A REFLECTIVE VEST AND HARD HAT. ALL FLAGGERS SHALL ALSO BE EQUIPPED WITH A C23 "STOP/GO" SIGN.
- VEHICLES SHALL BE TRAINED IN THE PROPER HANDLING OF FLAGGING TRAFFIC.
- NO SIGN SHALL BE PLACED OR REMOVED WITHOUT THE CONTRACTOR'S PERMISSION TO SET UP. SIGNS SHALL BE POSTED EVERY 90 LINEAR FEET OF OCCUPIED SPACE WITH AT LEAST ONE SIGN AT EACH END OF OCCUPIED SPACE.
- ANY CONFLICTING SIGNS WILL BE COVERED FOR THE LENGTH OF THE JOB.
- CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE AND DRIVEWAY ACCESS AT ALL TIMES.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL UTILITIES ASSIGNED TO THE PROJECT WHEN CONTRACTOR DOES OWN SET UP OR MAKES CHANGES TO THE ORIGINAL TRAFFIC CONTROL PLAN.
- COUNTY ENGINEER OR HIS REPRESENTATIVE HAS THE AUTHORITY TO INVOKE FIELD CHANGES TO ASSURE PUBLIC SAFETY.
- CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PLAN FOR CONSTRUCTION AREAS WHICH ARE NOT COVERED BY THESE TRAFFIC CONTROL PLANS ARE ACCURATE FOR TRAFFIC CONTROL WORK ONLY. WORK AREA LOCATION IS APPROXIMATE AND FOR REFERENCE ONLY.
- CONTRACTOR SHALL PLACE EXCAVATED AREA DURING NON-FLAGGING HOURS.

LEGEND

- CHANNELIZER (SPACING PER TABLE 1 ON CALTRANS STD PLAN T0)
- TEMPORARY SIGN POST
- PORTABLE FLASHING BEACON
- TRAFFIC FLOW DIRECTION

PROJECT NOTES

- PROVIDE ADDITIONAL FLAGGER AS NECESSARY.

REVISIONS

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SPECIAL CONDITIONS FOR
ENCROACHMENT PERMIT

1. Maintain traffic controls for all roads. Traffic control delays shall not exceed 15 minutes. 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.
2. 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.
3. Residents and businesses shall be notified in writing, as approved by the County, 1 week in advance of any impacts to their access.
4. Any areas where parking is to be restricted shall have signs noting the restrictions in place at least 48 hours in advance.
5. Existing fences shall not be removed without written consent of the property owner. Such consent shall be submitted to the County prior to the removal. Fences removed shall be restored with in-kind or better materials. Restored fences shall not encroach into County right-of-way.
6. Work shall not be permitted within the San Joaquin County right-of-way between November 1 and March 31 without prior authorization from the San Joaquin County Department of Public Works Field Engineering Division, contact them at 209-953-7421.
7. All destroyed or obliterated pavement markings 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 the preservation of survey monuments located within the area of work herein permitted. Prior to the start of construction, survey monuments that potentially may be disturbed shall be located and referenced by a Licensed Land Surveyor, and a Corner Record filed with the County Surveyor. Any Survey Monuments disturbed during the course of construction shall be reestablished by a Licensed Land Surveyor and another Corner Record filed with the County Surveyor. (Land Surveyors' Act Section 8771)
9. All pipe and pipeline related facilities including, but not limited to, valves, utility boxes and vaults, and frames and covers shall be maintained by PACIFIC GAS & ELECTRIC, including any facilities that are abandoned in place. PACIFIC GAS & ELECTRIC 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 PACIFIC GAS & ELECTRIC's expense. (Streets and Highways Code Section 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. Trenches shall be maintained in a smooth and even condition to the satisfaction of the County throughout the project limits at all times.
12. 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 for prior approval by the County.
13. The contractor shall use San Joaquin County Improvement Standard R-29 when backfilling trenches within the County right-of-way. 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.
14. Final paving for trench repair or road resurfacing shall be per Caltrans' specifications and shall not occur between November 1 and March 31, without prior authorization from the San Joaquin County Department of Public Works Field Engineering Division, contact them at 209-953-7421.
15. No paving joints are allowed within paved shoulder; contractor shall pave all the way to outer edge of paved shoulder.
16. Class II Aggregate Base shoulder backing is required from the edge of pavement, a minimum of 4-inches thick by 4-feet wide.
17. 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.
18. Above ground vaults, panels and/or other similar facilities will be allowed within the right-of-way if located as far to the outside edge as possible. Utility vaults shall be located a minimum of 4'-0" from edge of pavement.
19. 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.
20. 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.
21. Coordinate with Road Maintenance regarding conflicts with existing 12 inch culvert.
22. Work hours 8:30 am to 4:30 pm.
23. Place CMS 1 week in advance of work.
24. The contractor shall not conduct construction operations in rain or heavy fog conditions.

GENERAL PROVISIONS

GOVERNING INSTALLATION OF SUBSURFACE STRUCTURES AND PIPELINES WITHIN COUNTY ROAD RIGHTS-OF-WAY

PUBLIC CONVENIENCE AND SAFETY:

- A. Before obstructing any private driveway entrance or County road traveled way with a trench, spoil bank, equipment or other barrier permitted for any prolonged period of time, the Permittee shall notify the known users of the respective thoroughfare(s) involved, and shall provide access for vehicular and pedestrian traffic to and from the road.
 - 1. Unless otherwise permitted, all work shall be conducted in such a manner that no less than one lane of the existing County road traveled way will be maintained open to public traffic during working hours in a smooth and safe riding condition(s). Two lanes shall be open after working hours.
 - 2. In cases where road closure is permitted, the permission to close the road will be granted under the condition that the Permittee notify the following persons and/or agencies of the time, the period of closure, and the detour route at least twenty-four (24) hours prior to said road closure.
 - a. The County of San Joaquin Public Works Department
 - b. The County of San Joaquin Sheriff's Office
 - c. The local postal service
 - d. The local fire district
 - e. The local school district
 - f. The local residents involved
- B. Should hazardous conditions relative to the installation operations warrant flagmen, as many capable flagmen as may be necessary shall be provided by the Permittee and stationed in advance of work to warn and direct traffic.
- C. Lights, signs and barricades shall be furnished, erected and maintained by the Permittee for the adequate warning and convenience of the public, with particular attention to be taken in this regard after dark.
- D. Any excess dirt and/or debris which might be a hazard to either automobile or pedestrian traffic, uncontrollable by lights, signs and barricades, shall be removed from the jobsite daily.

STRUCTURES:

- A. Walls of structures shall be such quality and strength that they will resist all pressures and will not crack or be deformed in such a way as to create a hazard or maintenance problem at any time. Therefore, the minimum structural requirements for concrete pipe placed under county road rights-of-way shall conform to the following American Association of State Highway and Transportation Officials (AASHTO) designations.
 - 1. For concrete pipe up to and including thirty-three inches (33") inside diameter, extra strength concrete conforming to AASHTO Designation M 170M.
 - 2. For concrete pipe thirty-six inches (36") inside diameter and larger, reinforced concrete pipe conforming to AASHTO Designation M 170M Class III.
 - 3. Plastic pipe conforming to AASHTO Designation M294.
- B. All concrete pipe joints with County road rights-of-way shall be sealed against leakage and/or infiltration with rubber gasket in conformance with Section 65-1.06 of the California Standard Specifications, or with other methods as may be permitted under the Special Provisions.
- C. Cast-in-place concrete pipe, vitrified clay pipe, spiral welded steel pipe, or corrugated aluminum alloy pipe shall not be installed within the County road rights-of-way unless specifically so stated in the Special Provisions, and only under the conditions as provided.
- D. All structures to be buried within the County rights-of-way shall be set at such elevations as to allow minimum coverage of thirty inches (30") to the centerline of the roadways and twelve inches (12") at the bottoms of borrow ditches each side of the roadways. The depths of structures shall be established below a flat plane extending across the rights-of-way, no part of which shall extend above the elevations stated above; manholes, lampholes, valves, etc. not included. Future surface elevations shall be anticipated as nearly as possible and structure elevations shall be established for future adjustments accordingly.
- E. The County hereby reserves the right to specify in the Special Provisions the gage and surface treatment of any galvanized corrugated metal pipe that is to be installed.
- F. All longitudinal utility facilities are to be established (and dimensioned on sketches) from surveyed centerline of road right-of-way, not from right-of-way (border) lines.

REPAIRS OF THE COUNTY RIGHT-OF-WAY:

- A. All excavations shall be backfilled and compacted immediately after work therein has been completed.
- B. Trenched shall not be left open farther than 300 feet in advance of pipe laying operations, or 200 feet to the rear thereof, unless otherwise permitted by the Engineer.
- C. Unless otherwise permitted under the Special Provisions, backfill shall be placed and mechanically compacted in such a manner that the relative compaction throughout the entire fill within the County road right-of-way shall conform to the percentages of compaction as shown on the Trench detail.
- D. Backfill material shall be placed in horizontal uniform layers not to exceed in thickness, before compaction, 0.67 foot in the bedding region, one -foot where 90% compaction is required, and two-feet where 80% compaction is required.
- E. No portion of the excavation(s) shall be compacted by ponding or jetting unless a maintenance bond is provided.
- F. Gravel backfill material shall be utilized only where specifically so stated on the face of the permit. It shall be compacted by means of a high-frequency internal vibrator, the compactor to be a size and type approved by the Engineer. Points of compaction shall not be greater than 18" centers and to the full depth of the lift.
- G. All pavements, curbs, gutters, sidewalks, borrow ditches, pipes, head walls, road signs, trees, shrubbery, and/or other permanent road facilities impaired by or as a result of construction operations at the construction site(s) occupied by materials and/or equipment, shall be restored immediately upon backfilling of the excavation to the original grades and cross sections, and to a condition as good as, or better than existing prior to construction.
- H. All surfacing materials of roadways and driveway approaches cut or damaged by or as a result of construction operations, shall be replaced within ONE WEEK following the backfilling of excavation, weather permitting, with compacted layers of surfacing materials at least as thick as the existing, and no less than two inches (2") of asphalt concrete over six inches (6") of aggregate base, both as specified below.
 - 1. Asphalt Concrete: Combined mineral aggregate shall conform to the quality and gradation requirements for Type "B" one-half inch(1/2) maximum aggregate, coarse or medium gradation as specified in Section 39 of the California Standard Specifications. The bituminous binder to be mixed with mineral aggregate shall be paving asphalt having (Grade PG 64-10), unless otherwise directed by the Engineer. Placement of asphalt concrete surfacing shall conform to the applicable provisions of Section 39 of the California Standard Specifications.
 - 2. Aggregate Base: Combined mineral aggregates shall conform to the quality and the grading for three-quarter inch (3/4") maximum size aggregate Class 2 Aggregate Base specified in Section 26 of the California Standard Specifications.
- I. Before acceptance of repairs to the County road rights-of-way, all unsightly and detrimental dirt, dust and/or debris shall be removed and the construction areas left in a neat and presentable condition(s).
 - 1. If necessary, County road traveled way and driveway pavements shall be washed with water to remove dirt and dust.
 - 2. Driveway approaches and field entrance pavements damaged by equipment or spoil banks shall be repaired as directed by the Engineer.
- J. Upon request by the County, any settlement, sagging of surface, or cracking of pavement shall be repaired immediately by and at the sole expense of the Permittee for a period of one year following acceptance of the work.

SPECIAL PROVISIONS

Winter Weather Utility Work

1. **SUPERVISION:** The utility company (**permittee**) shall furnish full-time supervision of all work to insure compliance with the permit provision.
2. **START OF WORK:** No work within the County right-of-way shall be started until the utility company representative has made an evaluation of weather conditions and has determined the work can be accomplished under the provisions of the permit.
3. **CLEAN PAVEMENT:** Dirt and mud shall not be deposited on the pavement outside the area of work, and if inadvertently tracked onto the road travel way shall be removed immediately.
4. **DAILY RESTORATION:** Private driveways and road intersections shall be restored daily.
5. **WEATHER-TIGHT CONDITIONS:** All trenches shall be filled and compacted, ditches and other drainage facilities regarded and opened, and the entire work area restored to weather-tight condition prior to any rain.