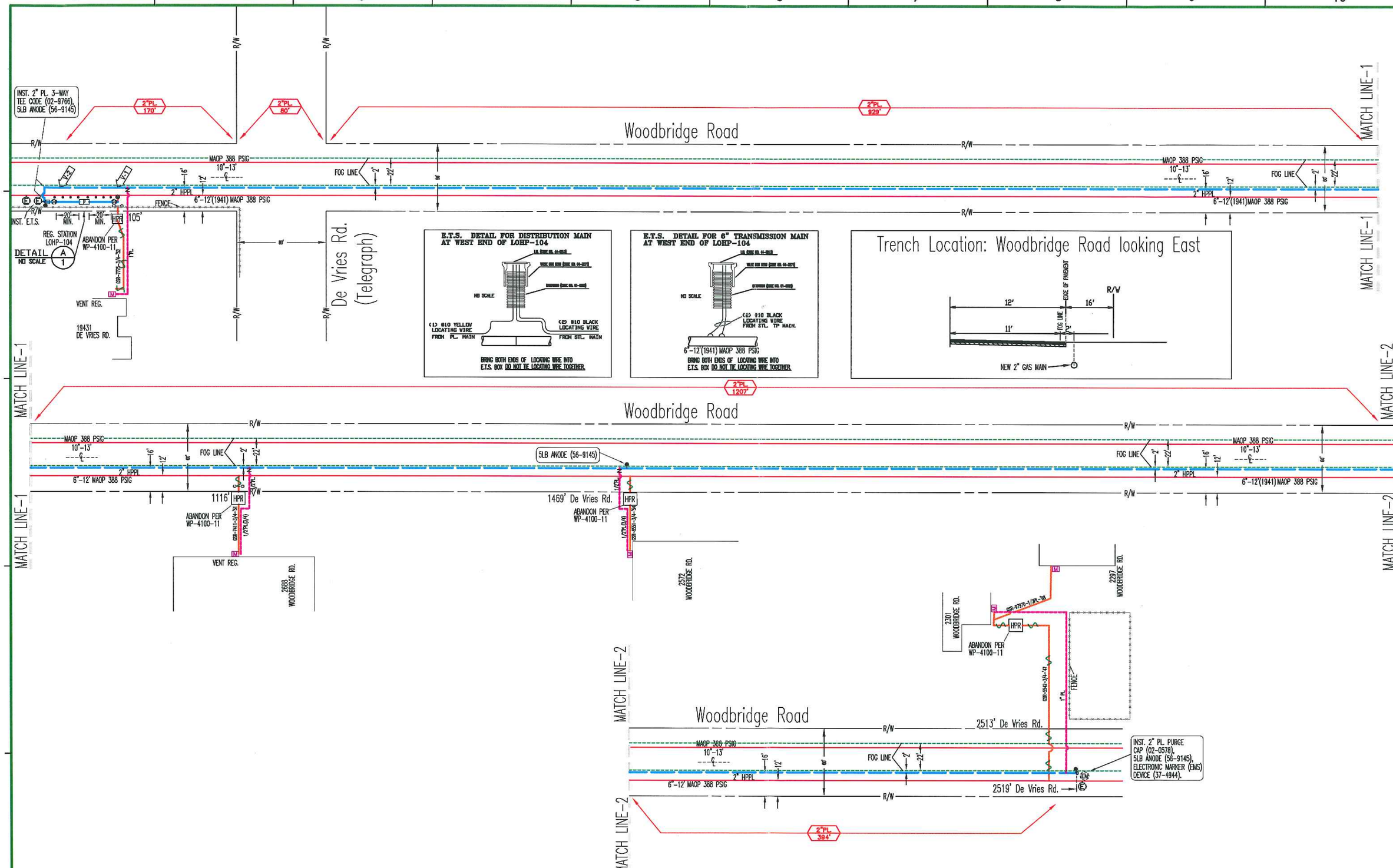
PS-12-01294



CO:
SD:
NOTIF.: 196273463
Other:
SHT: 1 OF 2
SHEETS
PM: 30847263
REV.

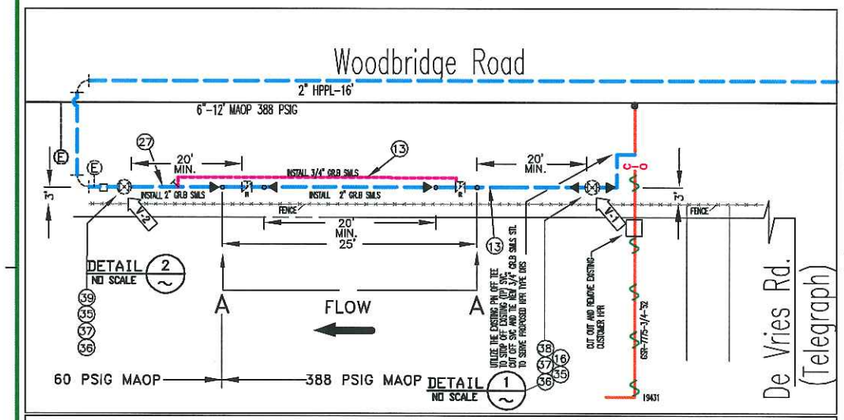
ENGINEERING AND PLANNING DEPT.
850 STILLWATER ROAD
WEST SACRAMENTO, CA
PHONE #:
FAX #:
PACIFIC GAS AND ELECTRIC COMPANY

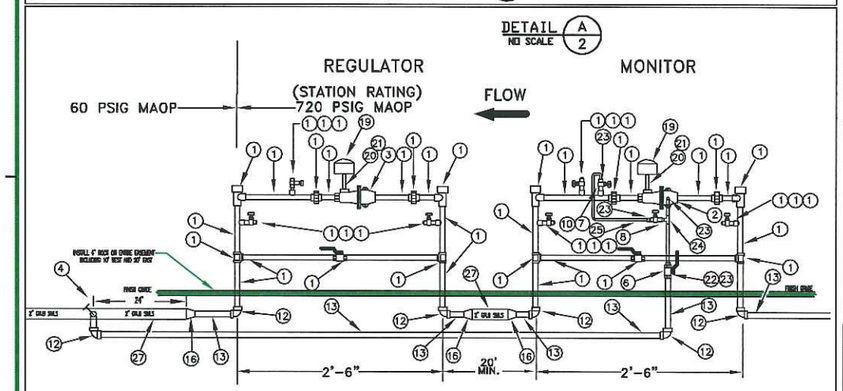
EST: WILLIAM TIPTON
ADE: PHIL STORMENT
SUPV: BRAD RICE
REP: KATHLEEN McDONALD-JIBER
PLNR: AARON YU
SCALE: 1"=40'
DATE: 2.27.2012

NO.	DATE	DESCRIPTION	ORDER #	DWN	CHKD	SUPV	APVD BY
		REVISIONS					

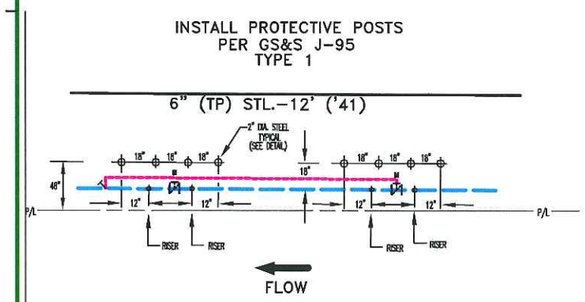
WOODBRIDGE RD. 2" MAIN MLX
INST. DISTRICT REG. STATION LOHP-104
INST. 2730' OF 2" PL MAIN / REMOVE 4 HPR's
LODI, CA

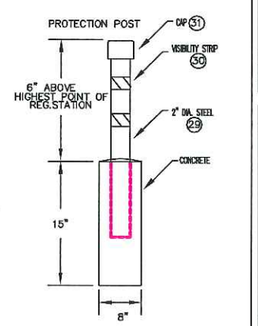
PS-12-01294

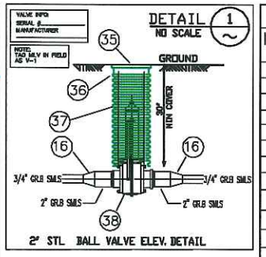




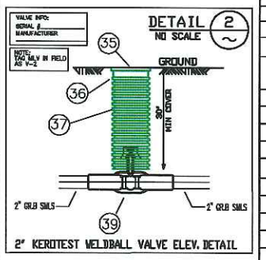
INSTALL REG. STATION MRB-11
PER GS&S H-10







2" STL. BALL VALVE ELEV. DETAIL



2" KEROTEST WELDBALL VALVE ELEV. DETAIL

PER GS & S H-14 DETAIL 'A'
PAGE 9 OF 11

SERVICE TEE INSTALLATION DETAIL

Design Criteria – BOM Item # 27

Location Class 3
Design Factor .5
D.P. 720 SMYS 15.66 %
MAOP 720 SMYS 15.66 %
STRENGTH TEST PRESSURE
MAX. 1280 PSIG 28.20 % SMYS
MIN. 1080 PSIG 23.79 % SMYS
4085 PSIG = 90% SMYS
TEST MEDIUM WATER
PIPE SPEC. API5L GR B SMLS
O.D. 2.375
W.T. .154
WELD INSPECTION (GAS STD. D-40)*
___ RADIOGRAPHIC INSPECTION REQUIRED
___ 20% MIN. (% of each welder's daily work)
___ 100%
*VISUALLY INSPECT 100% OF ALL WELDS THAT ARE NOT RADIOGRAPHICALLY INSPECTED. (THIS REQUIREMENT APPLIES EVEN IF NO RADIOGRAPHIC INSPECTION IS REQUIRED).

Design Criteria – BOM Item # 13

Location Class 3
Design Factor .5
D.P. 720 SMYS 7.01 %
MAOP 720 SMYS 7.01 %
STRENGTH TEST PRESSURE
MAX. 1280 PSIG 12.47 % SMYS
MIN. 1080 PSIG 10.52 % SMYS
9240 PSIG = 90% SMYS
TEST MEDIUM WATER
PIPE SPEC. API5L GR B SMLS
O.D. 1.050
W.T. .154
WELD INSPECTION (GAS STD. D-40)*
___ RADIOGRAPHIC INSPECTION REQUIRED
___ 20% MIN. (% of each welder's daily work)
___ 100%
*VISUALLY INSPECT 100% OF ALL WELDS THAT ARE NOT RADIOGRAPHICALLY INSPECTED. (THIS REQUIREMENT APPLIES EVEN IF NO RADIOGRAPHIC INSPECTION IS REQUIRED).

PIPE WRAP REMOVAL

-For work on pre-1972 pipe, assume the wrap contains >1% asbestos until the wrap can be tested.
-Obtain samples of the wrap, and have samples tested for asbestos in accordance with RP 4711.
-Test results are to be included with as-builts.
-Follow procedure in RP 4711 for removal of pipe wrap.

PIPE TYPE: 3/4" STL.
YEAR INSTALLED: 1947,52,54

Welding Inspected per PG&E Gas Standard D-40

Visual ☐
Magnetic Particle ☐
Inspector ____
Date ____

INFORMATION FOR T&R DEPARTMENT

	MONITOR	REGULATOR
SIZE & TYPE	3/4" 627 M REG	3/4" FISHER 627
SPRING RANGE	35-80 PSI (BLUE)	35-80 PSI (BLUE)
ORIFICE SIZE	1/4"	1/4"
SET PRESSURE	60 PSIG	55 PSIG

BILL OF MATERIAL

ITEM	QTY	DESCRIPTION	SIZE	CODE	REFERENCE
1	2	PRE-FABRICATED HPR ASSEMBLY	3/4"	03-2119	
2	1	REGULATOR, FISHER 627M, 3/4" (MONITOR), 1/4" ORIFICE	3/4"	03-2068	H-46.1
3	1	REGULATOR, FISHER 627, 3/4", 1/4" ORIFICE	3/4"	03-2074	H-46.1
4	1	VALVE, TEE, MUELLER H-17656, 1"	1"	02-2445	C-11
6	1	BALL VALVE MARPAC, THREADED UNION ELDS	3/4"	03-4272	F-20
7	1	NEDDLE VALVE, ACCO H5VDC-22/T, 1/4"M x 1/4"F OR EQUIVALENT	1/4"	03-5157	F-70
8	1	NEDDLE VALVE, ACCO H5VDC-22/T, 1/4"F x 1/4"F OR EQUIVALENT	1/4"	03-5161	F-70
10	1	COUPLING, HALF, FORGED STEEL, 3,000 PSIG	1/4"	02-3079	N/A
12	6	ELBOW, PIPE SOCKET WELD, 3,000 PSIG, FORGED STEEL	3/4"	02-2588	B-21
13	60'	PIPE, STL, WRAPPED, API 5L GR B SMLS, 0.154" WT, 3/4"	3/4"	01-1036	A-15
16	5	REDUCER, STEEL, WELD .154 X .113 WT	2 X 3/4"	02-2181	B-20
19	2	VENT COVER, SCHEDULE 40 PVC	3" x 4"	04-0563	H-91
20	2	NIPPLE, PIPE ZINC, TBE, SEAMLESS, 4" LONG	1/2"	03-3669	B-13
21	2	BUSHING, PIPE, HEXAGONAL, CARBON STEEL, 6,000 PSIG	3/4"x1/2"	02-1218	N/A
22	1	BUSHING, SCREWED, STEEL	3/4"x1/4"	02-1284	N/A
23	4	MALE, CONNECTOR, GRIPLOC ISS G6 MC4	1/4"Mx3/8" TUBING	02-1245	B-62
24	1	MALE OUTLET TEE, 3/8" x 3/8" TUBING, 1/4" MALE NPT	3/8"x1/4"	02-7392	N/A
25	TO SUIT	TUBING, STAINLESS STEEL, SEAMLESS	3/8"	01-1015	A-22
27	41'	PIPE, SMLS,WRAPPED STEEL, GR B, 0.154" WT, 2"	2"	01-0147	A-15
29	8	2" DIA., SCHEDULE 40, GALVANIZED PIPE	2"	15-0117	J-95
30	16	STRIP VISIBILITY, FLEXIBLE	2"X12"	01-3163	J-95
31	8	2" END CAP, GALVANIZED	2"	15-0119	J-95
35	4	BOX , CONCRETE ,TRAFFIC		04-3271	K-41
36	4	LID , STEEL ,TRAFFIC		44-6213	K-41
37	4	EXTENSION, CORRUGATED PLASTIC	8"	01-6063	K-41
38	1	VALVE, BALL BURIED, ANSI 300 - A DIMENSION = 3'	2"	03-2001	F-21.1
39	1	VALVE, KEROTEST WELDBALL WELD ENDS, ANSI 150	2"	03-4777	F-22

ASSET DATA STAMP V-1

BOM# 38
TECH ID ____
MANUFACTURE ____
MODEL# ____
SERIAL# ____

FIRE VALVE ONLY

VALVE TO BE COMMISSIONED BY GAS T&R OR DISTRICT PRIOR TO INSTALLATION / WELDING
COMMISSIONED BY ____
DATE ____
NUMBER OF TURNS ____
MODEL# ____
SERIAL# ____

ASSET DATA STAMP V-2

BOM# 39
TECH ID ____
MANUFACTURE ____
MODEL# ____
SERIAL# ____

FIRE VALVE ONLY

VALVE TO BE COMMISSIONED BY GAS T&R OR DISTRICT PRIOR TO INSTALLATION / WELDING
COMMISSIONED BY ____
DATE ____
NUMBER OF TURNS ____
MODEL# ____
SERIAL# ____

EXIST PIPE SPECS

HEADER SIZE: 1.05"
PIPE SPECS: API 5L GR B SMLS
WALL THICKNESS: 0.113"
PRESENT MAOP: 150 PSIG
% SMYS @ MAOP: 1.99

MAXIMUM ALLOWABLE PRESSURE DURING WELDING (GS&S D-22)

EVALUATE THE FOLLOWING OPERATING PRESSURE LIMITATIONS TO DETERMINE THE MAXIMUM OPERATING PRESSURE PERMITTED DURING WELDING

A) (150 PSIG) WHEN WELDING ON BODY OF THE PIPE, UNLESS,

B) (150 PSIG) WHEN WELDING WITHIN 3" OF THE LONGITUDINAL SEAM (EXCEPT DSAW PIPE), THE CIRCUMFERENTIAL AND ANY BRANCH WELD, OR WITHIN 3" OF ANY DEFECT (GOUGES, CORROSION, LAMINATIONS, ETC.) IN THE PIPE WHICH EXCEEDS 1/3 OF THE NOMINAL WALL THICKNESS IN DEPTH AND/OR 1/4 OF THE NOMINAL PIPE DIAMETER IN LENGTH.

GAS CONSTRUCTION NOTES:

1. ALL STEEL RISERS TO BE REPLACED WITH NON CORRODIBLE RISERS.
2. ALL SERVICES AND MAINS UNDER 60 PSIG TO BE AIR TESTED PRIOR TO TIE-IN.
3. LOCATE/REMOVE ALL DRIP POTS PRIOR TO INSERT.
4. INSTALL PLASTIC MAIN & #10 LOCATION WIRE PER GS&S A-90, A-90.2, & A-93
5. ALL WELDING TO BE DONE PER GS&S D-22.
6. INSTALL ANODES PER GS&S O-13.1, TYPE "E".
7. WORK REQUIRED ON PRE 1972 STEEL PIPE. IF NEEDED, CONDUCT PIPE WRAP ASBESTOS TESTING.
8. INSTALL ELECTRONIC MARKER DEVICE ON ALL CUT-OFF ENDS AND SECTIONALIZING POINTS. TYPE OF MARKER TO BE DETERMINED BY DEPTH OF MAIN
9. 30" MINIMUM REQUIRED OVER MAIN AND SERVICES IN STREET AREA.

METER LOCATIONS

1. ALL GAS METERS ARE TO BE IN COMPLIANCE WITH GS&S J-15.
2. PORTIONS OF ANY SERVICE PIPE UNDER A BUILDING PORCH OR OTHER STRUCTURE SHALL BE RELOCATED TO OUTSIDE OF THE STRUCTURE.
3. SERVICE REGULATOR VENTS MUST TERMINATE IN A SAFE LOCATION OUTLINED BELOW.
   - A MINIMUM CLEARANCE OF 18" BEYOND EITHER SIDE OF, AND 10' BELOW ANY PART OF, ANY AIR VENT OR OPENABLE WINDOW.
   - A MINIMUM LATERAL DISTANCE OF 3' FROM A FORCED AIR INTAKE OR ANY SOURCE OF IGNITION.
   - IN CASES WHERE THE VENT IS TO BE PLUMBED TO AN ACCEPTABLE LOCATION, INSTALL A 1" THREADED STEEL PIPE UP TO 30' PER GS&S H-93 & BULLETIN TD-H-60.4B-001.
   - IN CASES WHERE THE VENT CAN NOT BE PLUMBED TO AN ACCEPTABLE LOCATION, THE METER SET SHALL BE RELOCATED.
4. SMARTMETER OPERATING REQUIREMENTS. GAS METERS ARE NOT TO BE LOCATED IN THESE SITUATIONS.
   - IN ANY ROOM, CABINET, ENCLOSURE, OR CONFIGURATION THAT INTERFERES WITH THE RADIO FREQUENCY SIGNAL. EX. METAL CABINET.
   - WITH IN 6" OR LESS OF ANY METALLIC PIPE, CABLE, OR OBJECT THAT INTERFERES WITH THE RADIO FREQUENCY.
5. METER PROTECTION SHALL BE PROVIDED PER GS&S J-15.
6. TO PROVIDE WORKING SPACE AROUND ELECTRIC METER, NO PART OF ANY GAS METER CAN BE LOCATED WITHIN 10" OF A VERTICAL LINE THROUGH THE CENTER OF AN ELECTRIC METER.
7. REFER QUESTIONABLE CASES OF METER LOCATIONS TO THE SERVICE DEPARTMENT.

ELECT. U.G. IN AREA YES ☐ NO ☐

CPA 12-S007 ZONE 12-07-B

	HP	TP	LP
MAOP	60 PSIG	388 PSIG	N/A
NOP	60 PSIG	N/A	N/A
FUTURE	N/A	N/A	N/A
APD	N/A	N/A	N/A

CLASS LOCATION: 1 ☐ 2 ☐ 3 ☒ 4 ☐
WALL MAP: 2153 E3, D3, C3, B3

INSTALL DIRECT BURIAL PLASTIC MAINS & SERVICES PER NUMBERED DOCUMENTS A90-A90.2, A93-A93.1 & WP4170-03 WP4170-04, WP4170-05, WP4170-06, WP4170-07 & WP4170-08. INSTALL PLASTIC MAIN & SERVICE INSERT PER NUMBERED DOCUMENTS A90.1-A90.3, A91.2-A93.1 & WP4170-03 WP4170-04, WP4170-05, WP4170-06, WP4170-07 & WP4170-08.

CONSTRUCTION SHALL NOTIFY MAPPING WITHIN 24 HOURS OF ALL OPERATIONAL CHANGES TO MAINS, INCLUDING EVERY TIE-IN, CUT-OFF, UPRATE, ETC., PER U.O. STANDARD S4412.

NOTE: MAINTAIN A MIN. OF 2' SEPARATION BETWEEN GAS FACILITIES AND A MIN. OF 5' SEPARATION BETWEEN 'WET' UTILITIES. WHEN CROSSING FACILITIES MAINTAIN A MIN. OF 12" SEPARATION

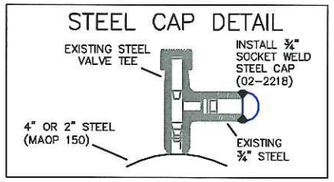
TEST AT 100-110 PSI FOR MINIMUM OF 5 MIN.

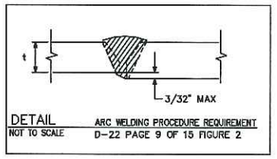
PRESSURE	DURATION	INITIALS	DATE OF TEST

PLASTIC PIPE DATA

SIZE	MANUFACTURED	DATE OF MANUFACTURE	SDR

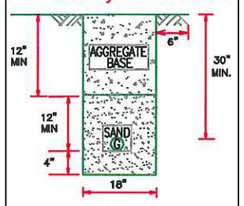
STEEL CAP DETAIL





DETAIL — ARC WELDING PROCEDURE REQUIREMENT
NOT TO SCALE — D-22 PAGE 9 OF 15 FIGURE 2

PG&E ONLY TRENCH
Per County R-29 Std.



TYPICAL TRENCH
GAS ONLY TRENCH

TRENCH CONFIGURATION IF OPEN TRENCH IS UTILIZED. BORING WILL BE ATTEMPTED BEFORE OPEN TRENCHING

SERVICES TAKEN OFF HPR'S AND PUT ON (HP) SYSTEM

19431 DE VRIES RD.
2688 WOODBRIDGE RD.
2572 WOODBRIDGE RD.
2301 WOODBRIDGE RD.
2297 WOODBRIDGE RD.

RECAP

- INSTALL 2730' OF 2" HP PL GAS MAIN
- INSTALL (1) DISTRICT REG. STATION
- ABANDON (4) HPR SETS
- REPLACE (3) SERVICES
- TRANSFER (1) BRANCH SERVICE

PROJECT CONDITIONS STAMP

Type(s) of Work:
☐ New Business
☒ PG&E Maintenance & Construction
Project Conditions:
☒ NONE APPARENT (if project design changes, contact ADE)
or
☐ CONDITIONS APPLY:
☐ PERMITS ☐ TAILBOARD ☐ OTHER
(Provide additional information on line below)

BY: SIGNATURE, NAME, [CORPORATE ID], DATE

Circle of Safety

SAFETY PLEDGE
I ALWAYS PUT SAFETY FIRST.
I LOOK FOR AND ACT TO RESOLVE UNSAFE CONDITIONS.
I HELP AND ENCOURAGE OTHERS TO ACT SAFELY.

Underground Service Alert
Call: TOLL FREE 1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

NOTIFIED U.S.A.
DATE:
TICKET #
BY:

CO:
SD:
NOTE: 106273463
Other:
SHT: 2 OF 2 SHEETS
PM: 30847263 REV.

ENGINEERING AND PLANNING DEPT.
850 STILLWATER ROAD
WEST SACRAMENTO, CA
PHONE # FAX #
PG&E PACIFIC GAS AND ELECTRIC COMPANY

EST: WILLIAM TIPTON
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NO.	DATE	DESCRIPTION	ORDER #	DWN	CHKD	SUPV	APVD BY

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