

A 4/29/22

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90% ISSUED FOR REVIEW

DESCRIPTION

REVISIONS

74024169 DNG

AG PD JQ

ORDER DWN ADE ENG ENG APVD

GAS TRANSMISSION & DISTRIBUTION

PACIFIC GAS AND ELECTRIC COMPANY

9

SAN FRANCISCO, CALIFORNIA

SHEET NO. 3 OF 20 SHEETS

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AND ITS AGENTS.

AUTHORIZED PACIFIC GAS AND

ELECTRIC COMPANY EMPLOYEES

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Know what's **below**.

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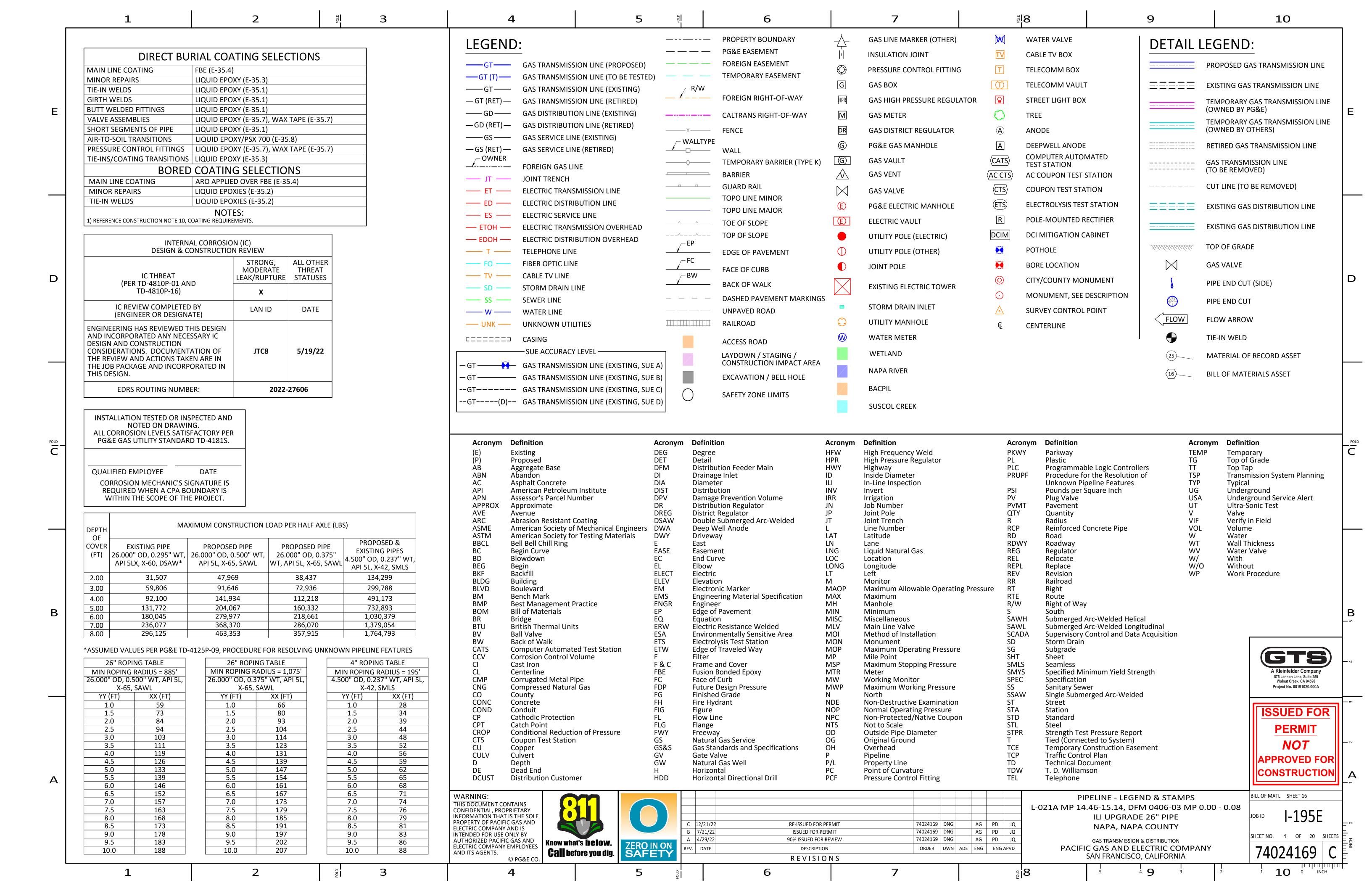
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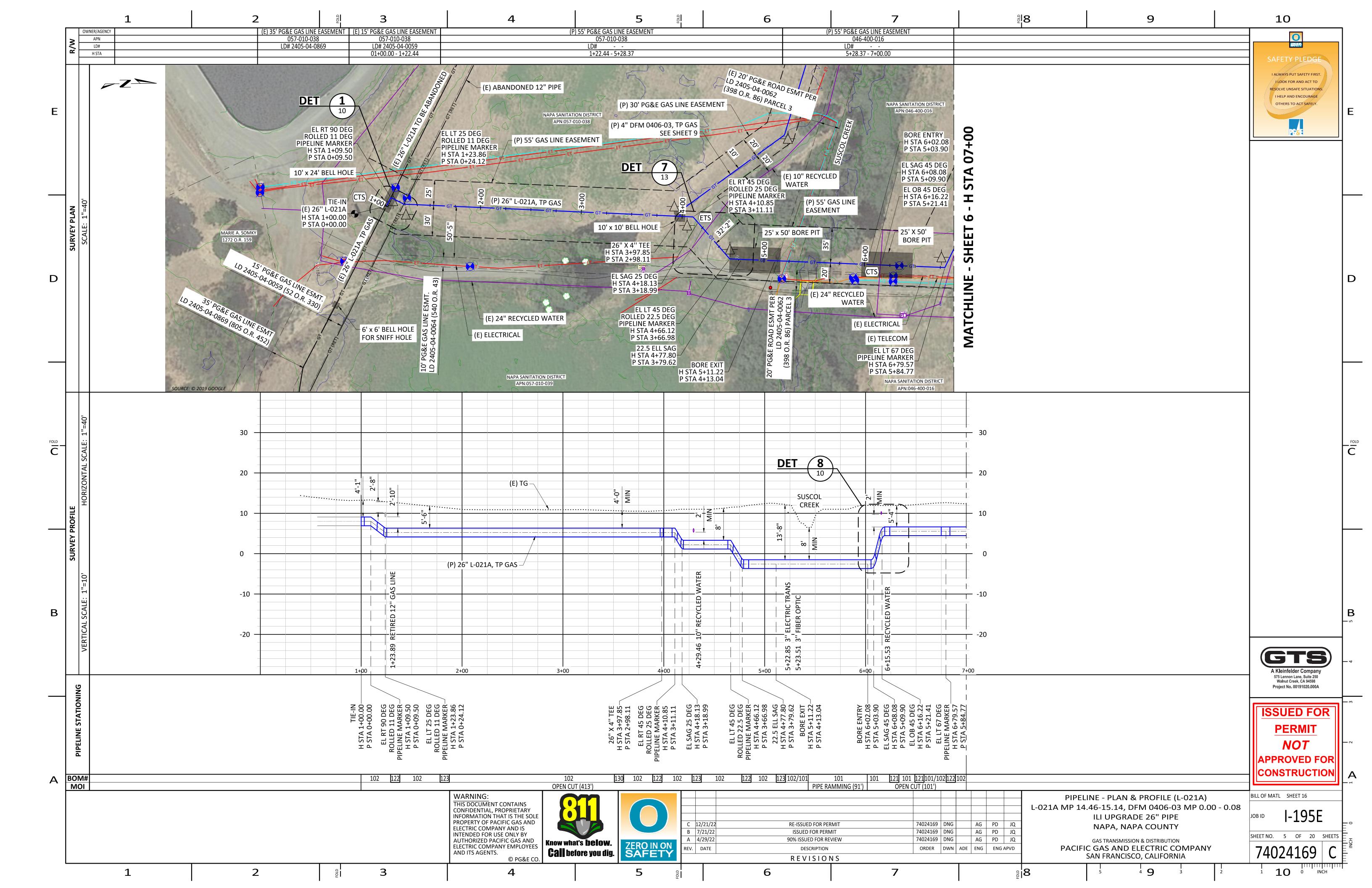
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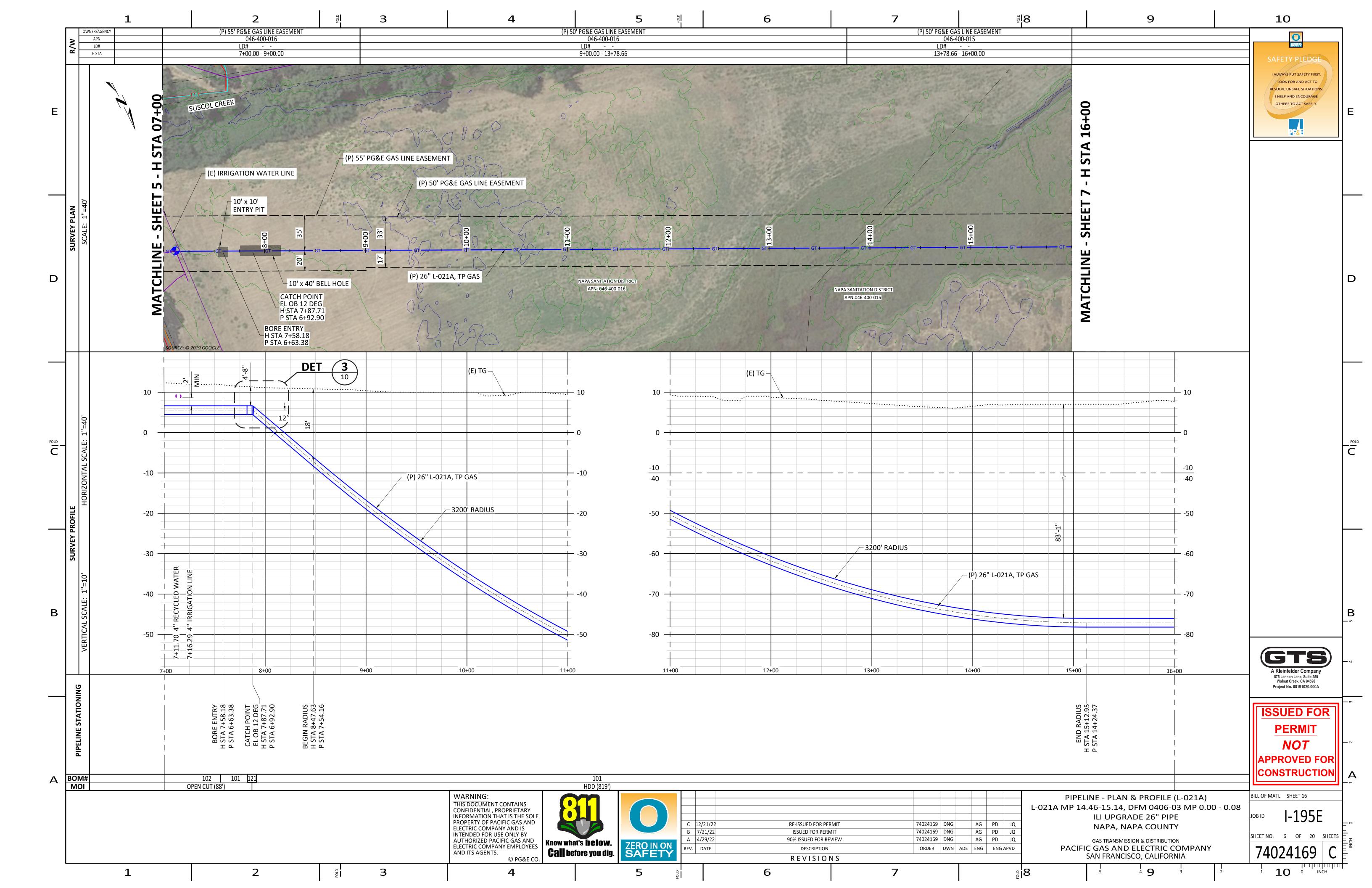
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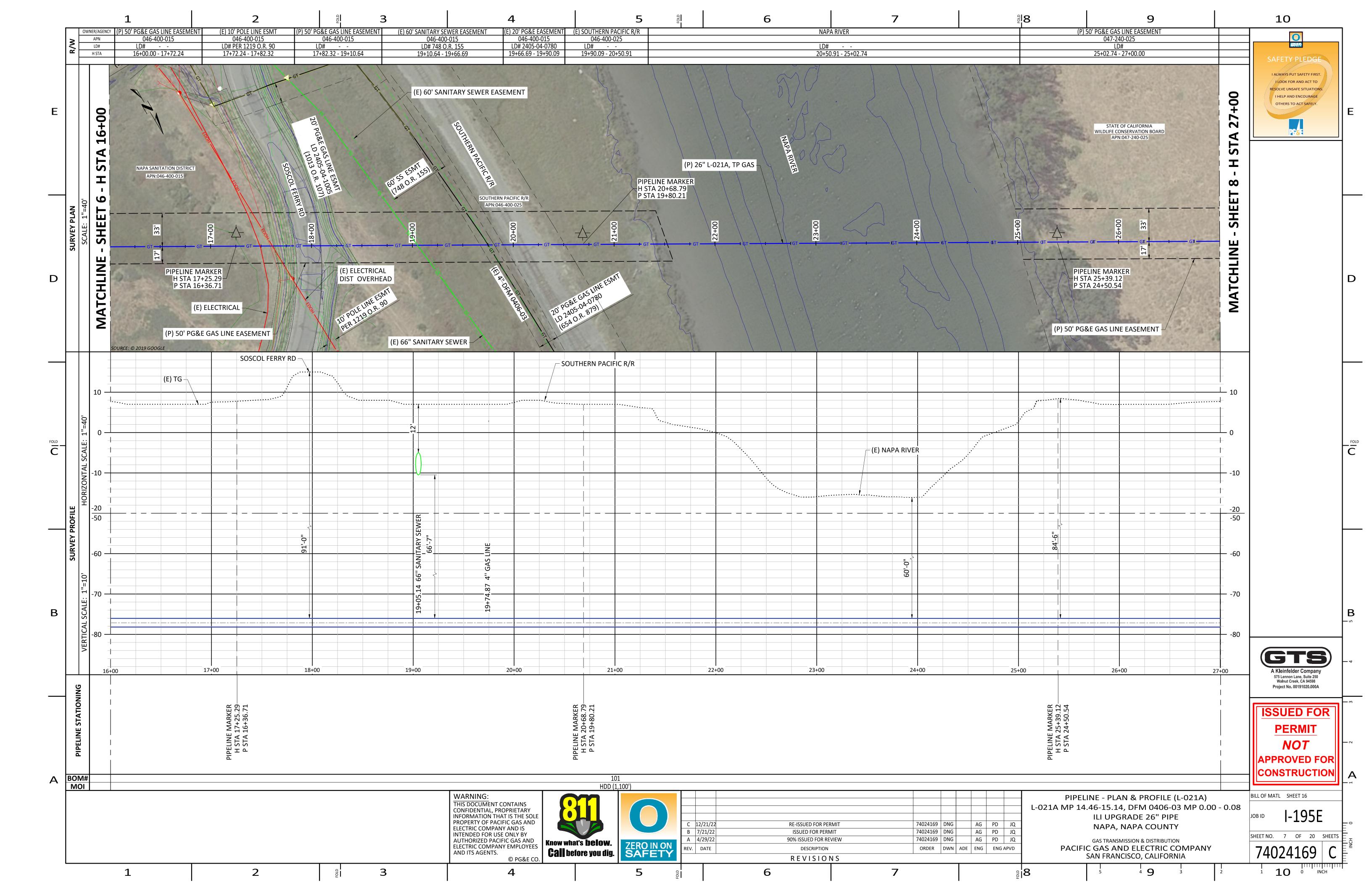
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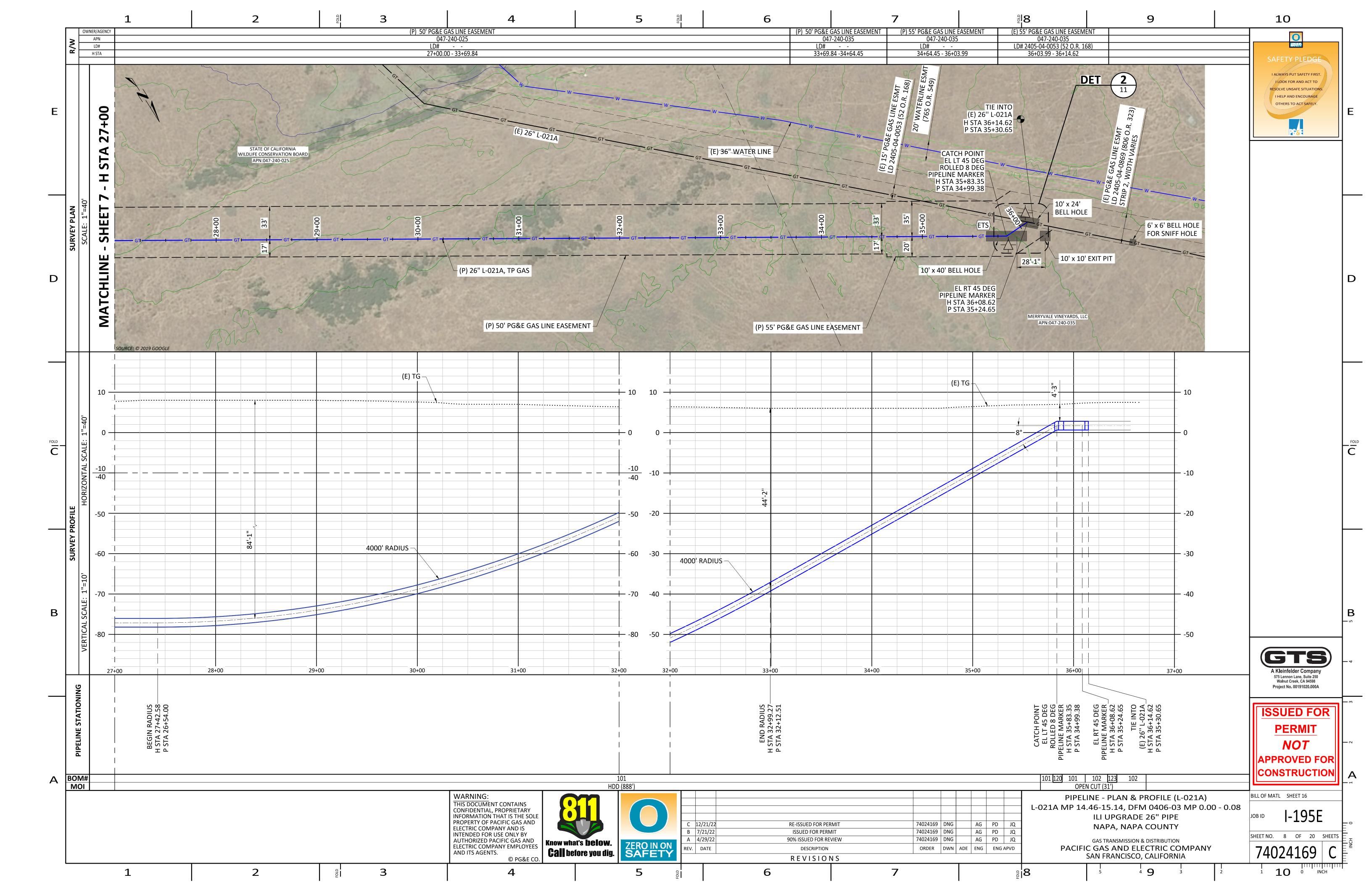
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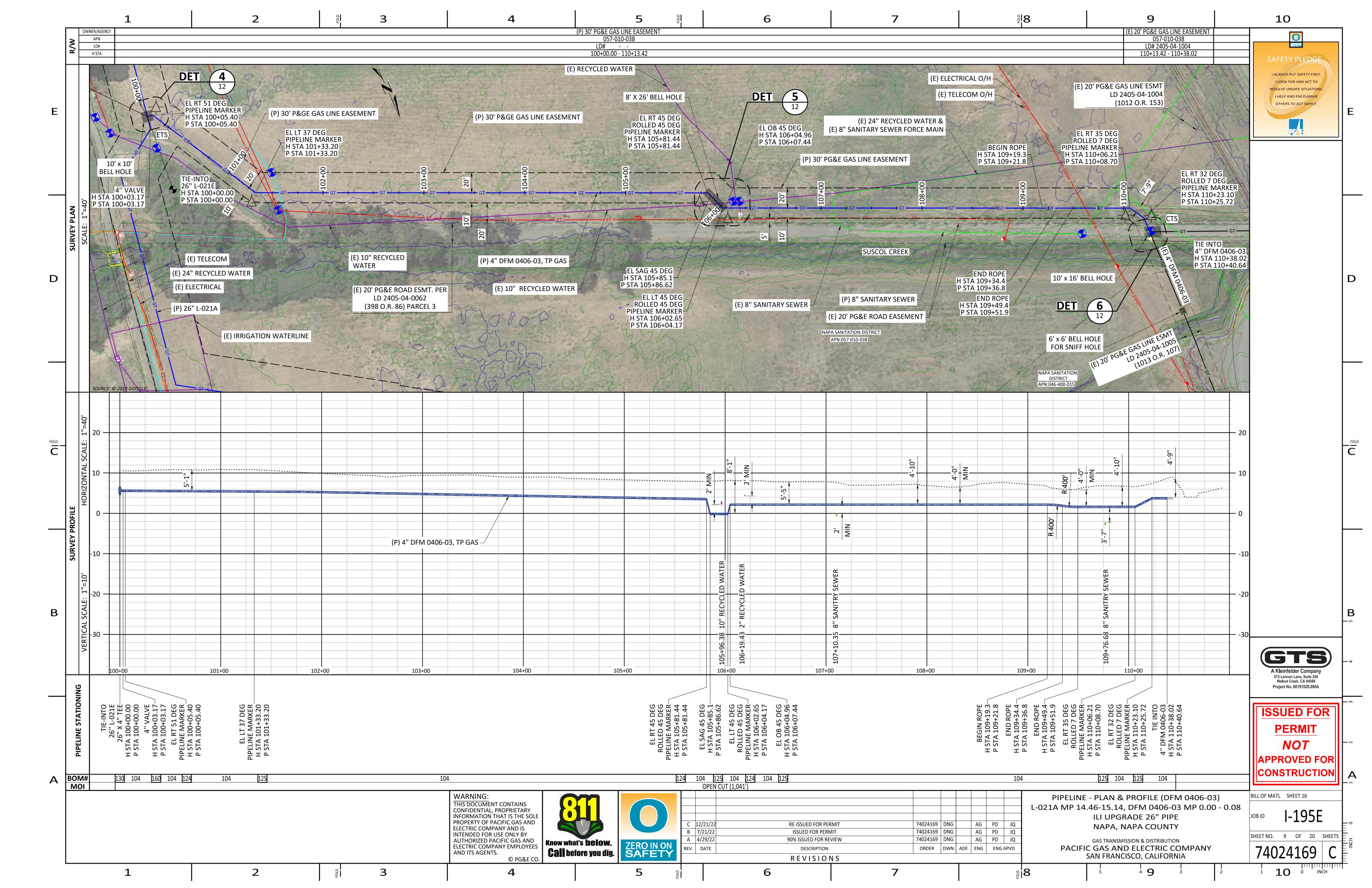


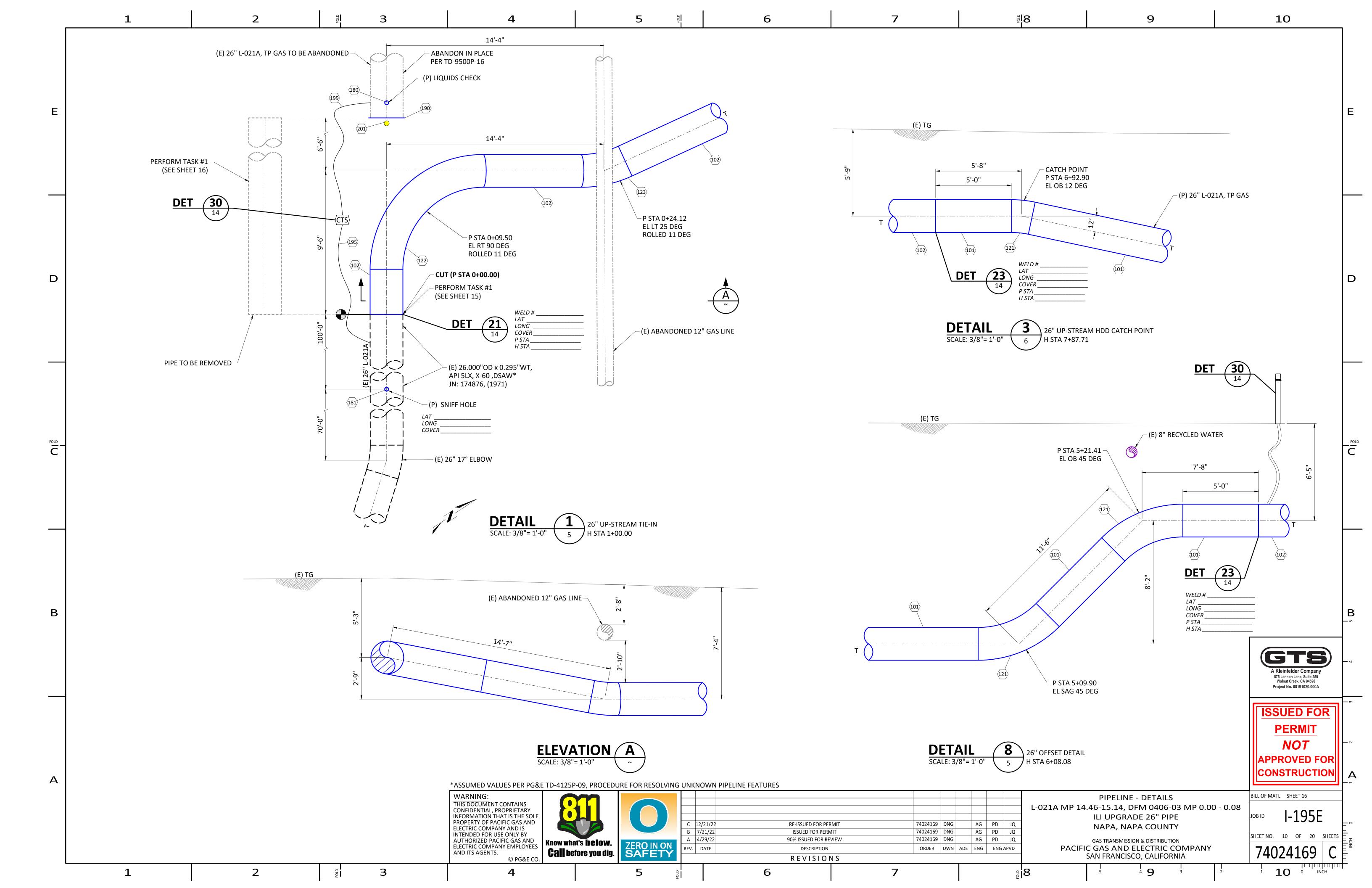


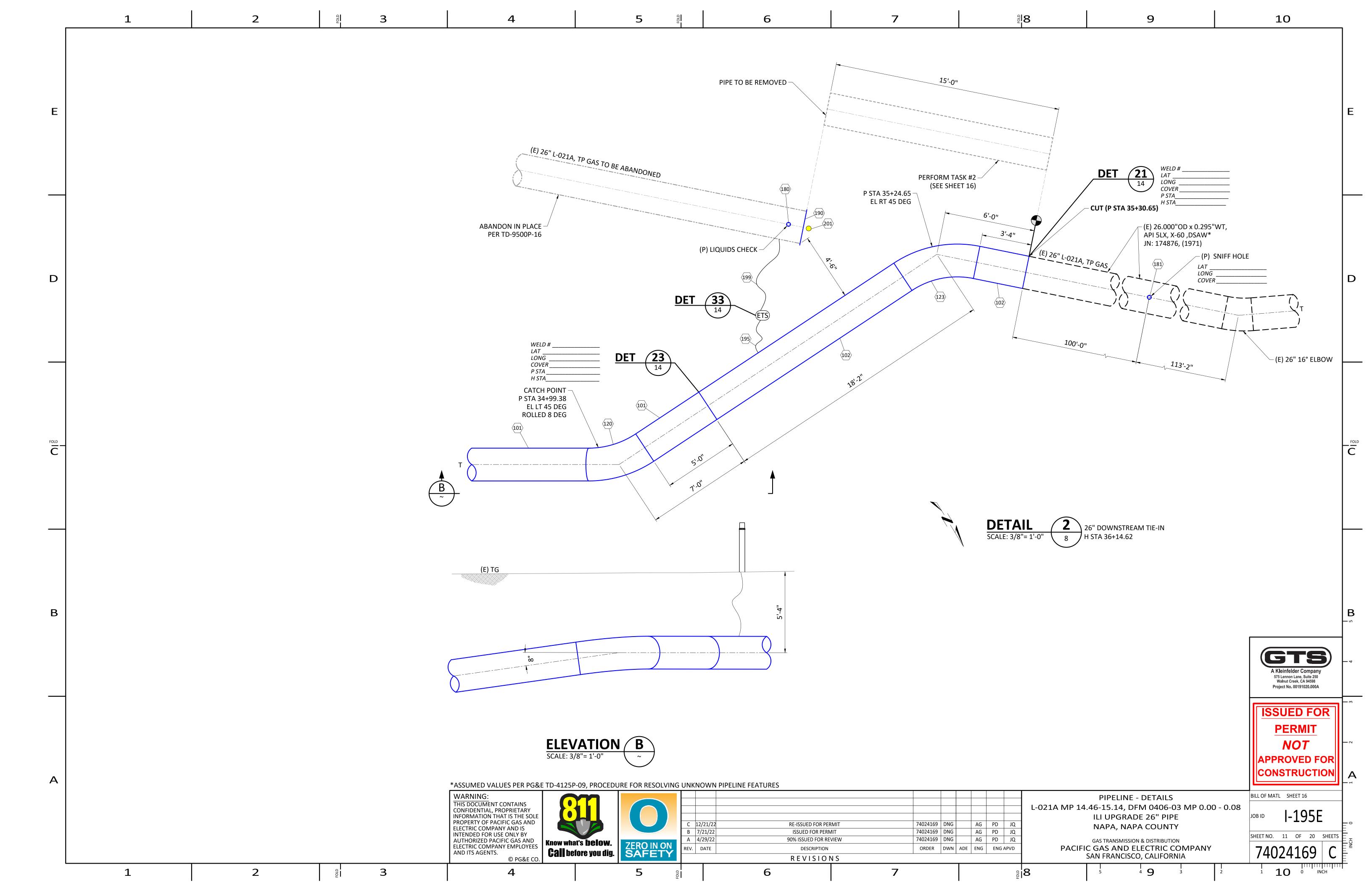


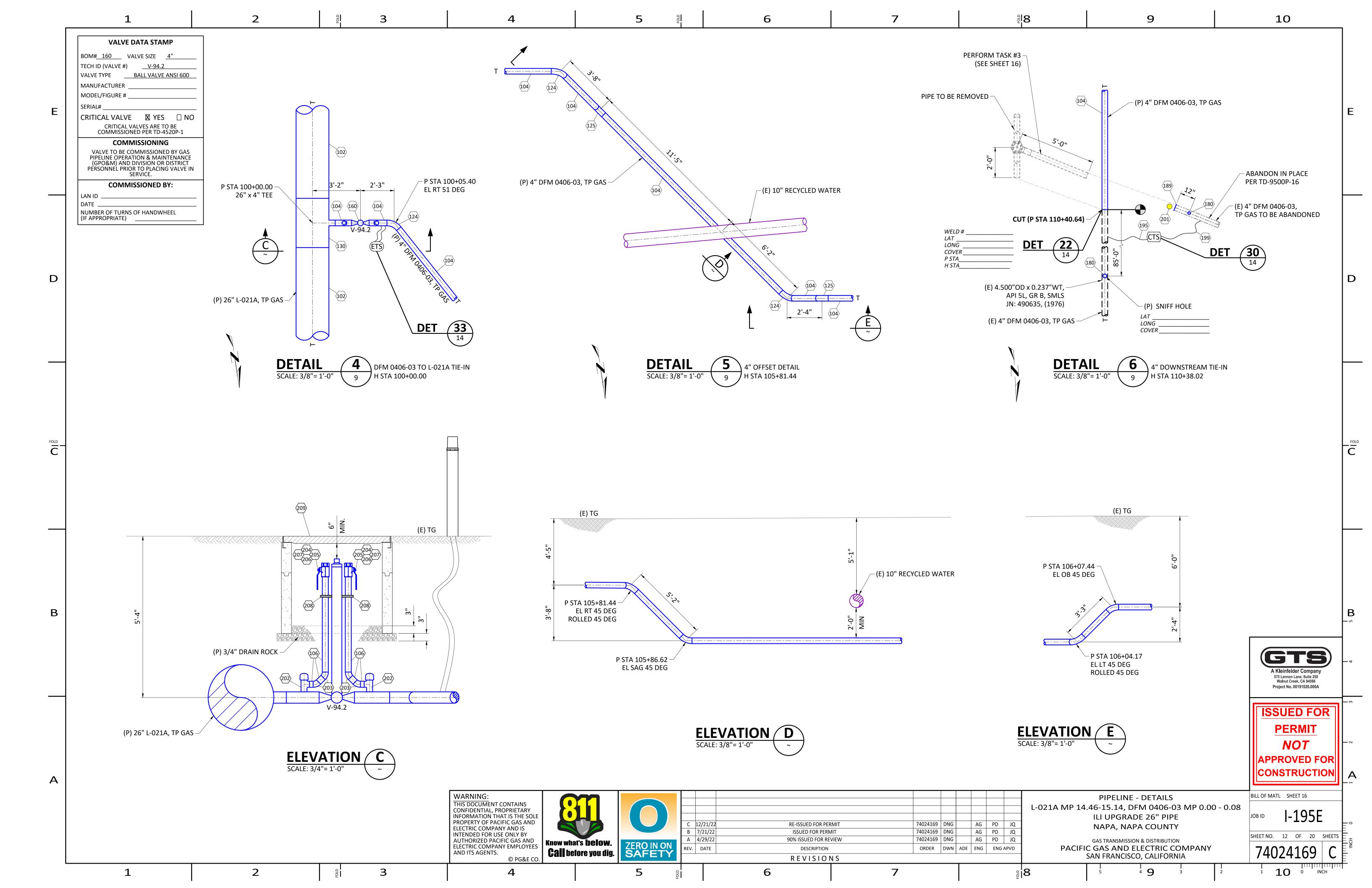


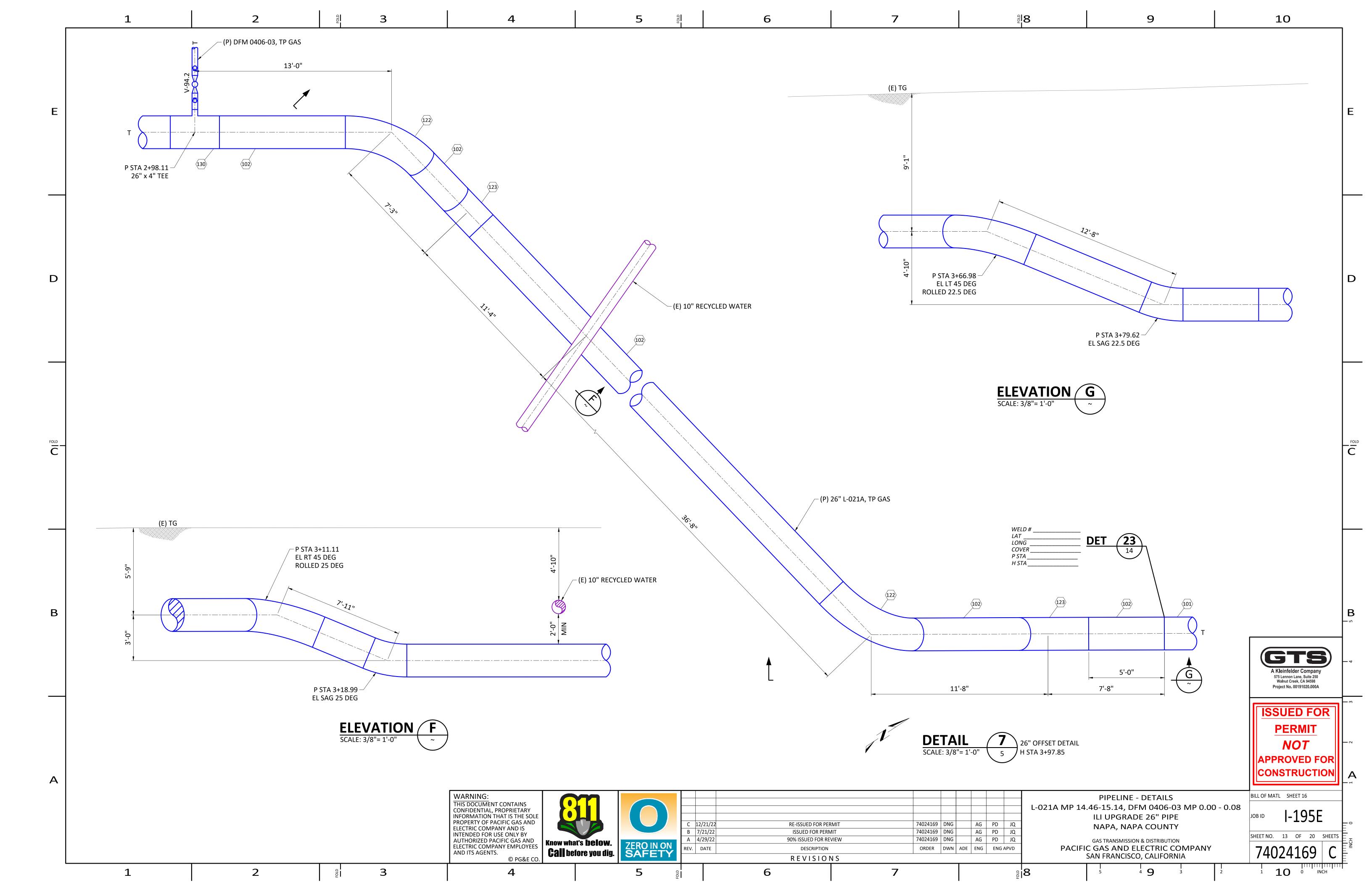


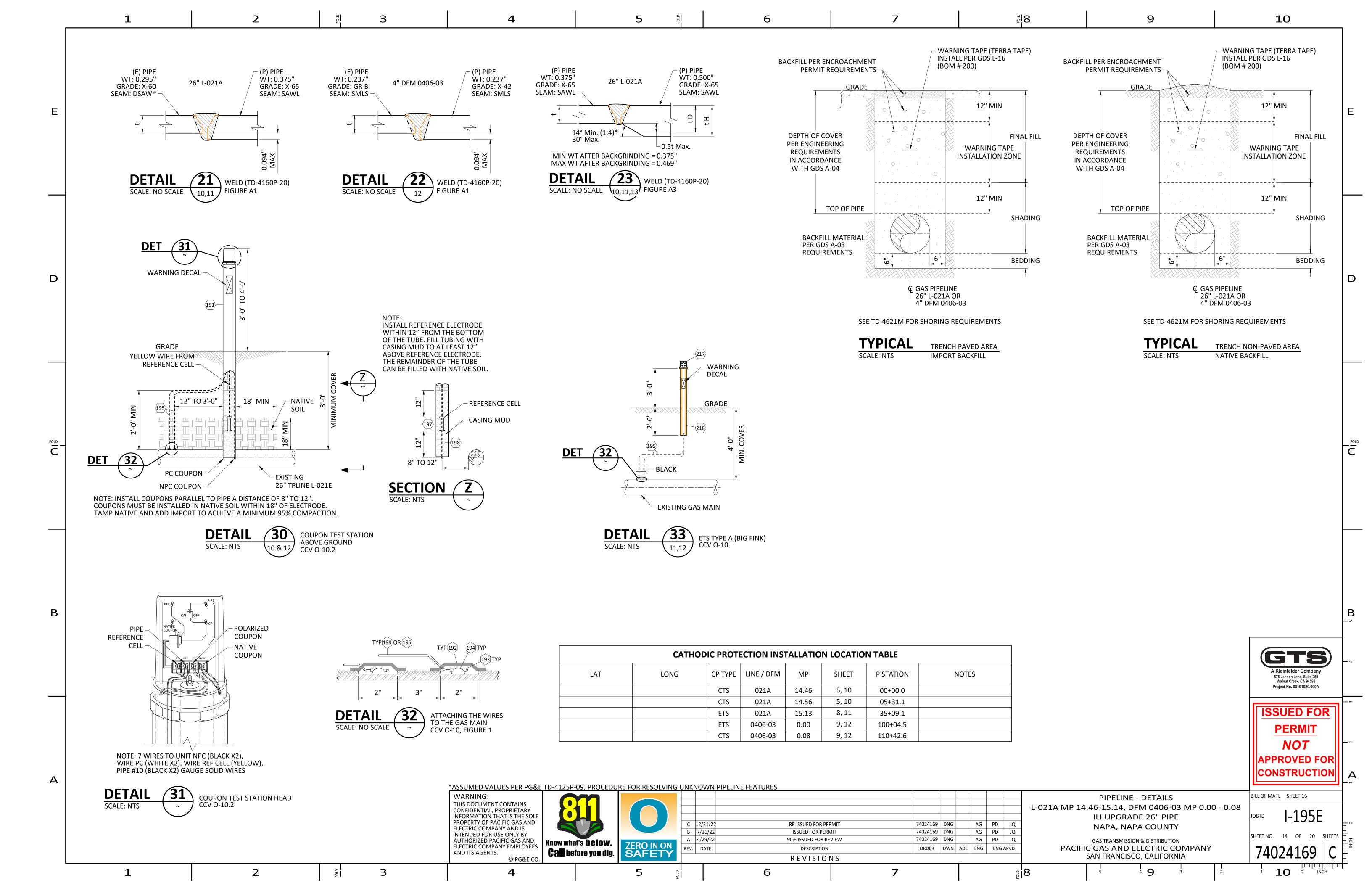


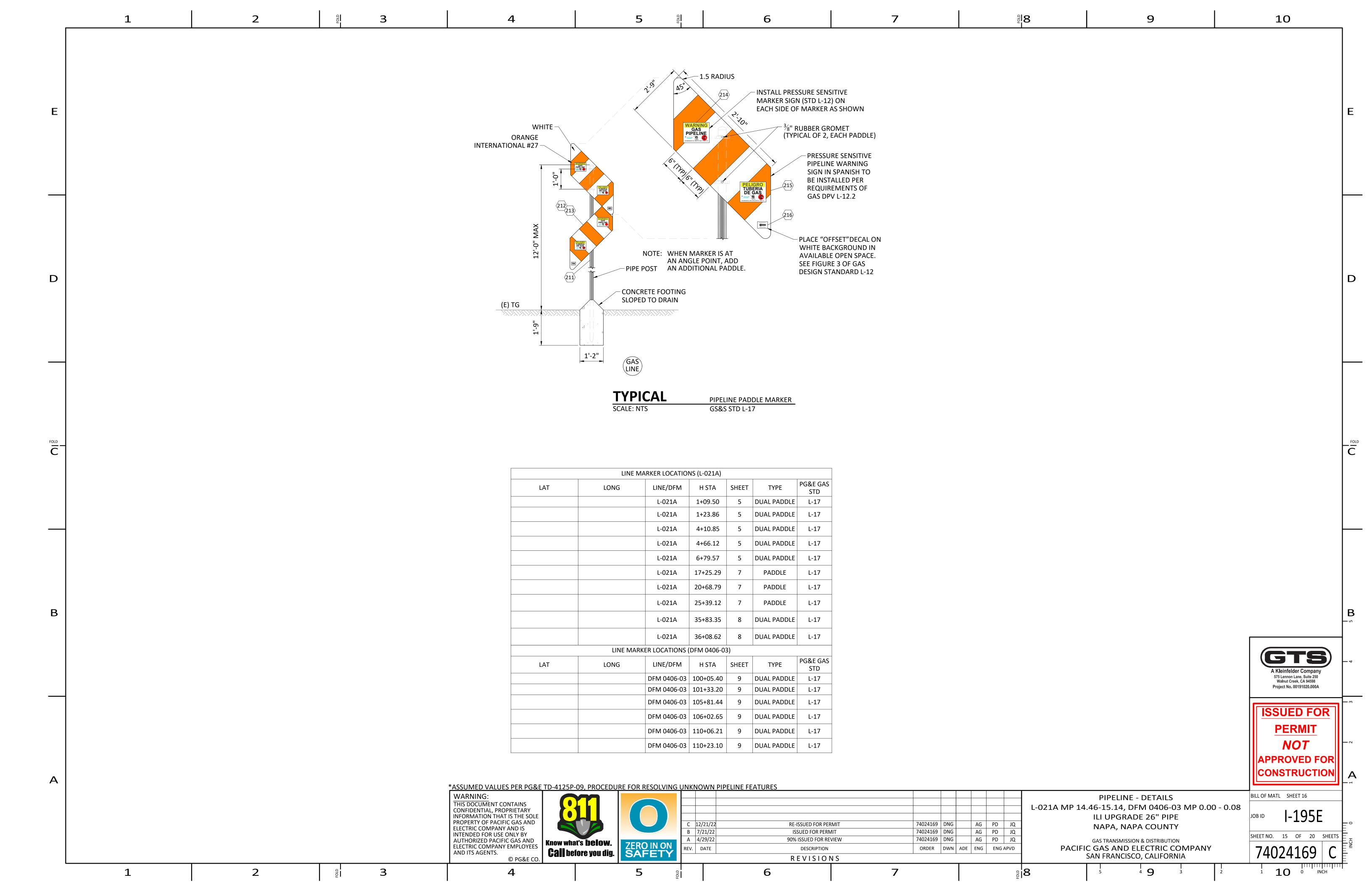












		1		2	2	g 3			2	1			5	FOLD		6			7	
					BILL OF MATERIA	AL:				74024169	9		CAPITAL							
	ITEM #				MATERIAL DESCRIPTION	N				MATERIAL CODE #	QTY	UNIT	STANDARD		NOTES					
	101	PIPE, STEEL, 26", (0.500"WT, API 5	L, GRADE X65, SAWL, FBE+ARC	,					M011962	3060	FT	GS&S A-15							
	102			L, GRADE X65, SAWL, FBE						M011199	600	FT	GS&S A-15							
	104			, GRADE X42, SEAMLESS, FBE , GRADE B, SEAMLESS, WRAPP	ED					M010364 M010147	1060 10	FT FT	GS&S A-15 GS&S A-15							
_	120			VT, Y-65, 90 DEGREE						M025015	1	EA	GS&S B-20.2							
E	121			VT, Y-65, 45 DEGREE						M025016	3	EA	GS&S B-20.2							
	122			/T, Y-65, 90 DEGREE /T, Y-65, 45 DEGREE						M026148 M026149	4 4	EA EA	GS&S B-20.2 GS&S B-20.2							
	124			T, GR-B, 90 DEGREE						M024696	3	EA	GS&S B-20.2							
	125			Γ, GR-B, 45 DEGREE						M024695	5	EA	GS&S B-20.2							
	130 150			, 0.375" X 0.237" WT, Y-65, UN T, Y-65, MSS-SP-75	BARRED					N/A M025152	1	EA EA	GS&S B-20.2 GS&S B-20.2	FOR S	TRENGTH TEST ONL	v				
	151			T, Y-65, MSS-SP-75						M025152	6	EA	GS&S B-20.2		TRENGTH TEST ONL					
	152			LD, 0.237" WT, ASTM A-234, G						M022079	2	EA	GS&S B-20	FOR S	TRENGTH TEST ONL	Υ				
	160				URE 5, 0.237"WT, GR B, 24" PUPS TEEL CAP, DRILLING 1200 PSI MA					M038722 M022287	1 12	EA	GS&S F-21.1							
	180				TEEL CAP, DRILLING 1200 PSI MA	·				M022289	12	EA EA	GS&S C-14 GS&S C-14							
	186	COVER, VALVE, CA	AST IRON, YELLO	W, CHRISTY #G05CY, FULL TRA	AFFIC, 11-1/8", TRAFFIC YELLOW \	WITH EXPOXY CLEAR COAT,	MARKED "PG&E	GAS"		M446213	1	EA	GS&S K-40							
	187			CHRISTY # G05, W/O COVER, 1						M043271	1	EA	GS&S K-40							
	188	STEEL PLATE, 6" X			51, BLACK ABS, CORRUGATED, 10	JFI LENGIH				M016063 N/A	2	EA EA	GS&S K-41 -	SUPPLI	ED BY CONSTRUCTION	ON				
	190	STEEL PLATE, 30"								N/A	2	EA	-		ED BY CONSTRUCTION					
_	191	·	.		LASTIC CONDUIT AND TERMINAL	L TEST HEAD CONSTRUCTION	I, 3" OD X 10' LC	NG		M560691	3	EA	CCV O-10.2							
D	192 193	SLEEVE, COPPER S		DN IP W/ INTEGRATED PRIMER #10						M562324 M303755	10	EA EA	GS&S E-27 GS&S O-10					EVC AV	ATION ADEA(
	194	<u> </u>		# CA-15, THERMOWELD #15P,	ERICO PRODUCTS COMPANY					M159260	10	EA	GS&S O-10					EXCAVA	ATION AREAS	,
	195				PVC, SOLID 1 CONDUCTOR, BLAC					M294991	200	FT	CCV 0-10				ID	AERA	VOLUME	DEPT
	197	· ·		· ·	BORIN MANUFACTURING # SRE- FURING # EMB-001-CUS, ELECTRIC	·		LE UNIT, FOR C	ONE	M241423	3	EA	CCV 0-71					(SQ. FT.)	(CU. FT.)	51.01
	198	INSTALLATION	·				,			M041192	3	EA	CCV 0-71				A	36	/ /	5'-2"
	199				PVC, SOLID 1 CONDUCTOR, PINK RIES # 42-0084, YELLOW WITH BL		AS LINE BURIED	BELOW", 8 MII	LS THICK, 6"	M290466	200	FT	CCV 0-10				В	240 1,150	73	8'-3"
	200	WIDE X 1000' LON		EMS TYPE VELLOW 2M # 140	05-XR, FOR MARKING BURIED GA	AS EACH ITIES MAYIMINA IN	TALLED DEDTH	IS E'	· 	M379947 M374944	6	EA EA	GS&S L-16 GS&S M-60				D	1,130	426 31	10'-0 8'-6"
	201			2", MUELLER # H-17656, 1440		ASTACILITIES, MAXIMOM INS	STALLED DEFITI	13 3		M022511	2	EA	GS&S C-11				F	255	142	8'-6" - 17
	203	ELBOW, SOCKET V	WELD, VOGT # S	W-2000 OR EQUAL, FORGED ST	EEL, 2", 45 DEG, 3000 PSI					M022558	4	EA	GS&S B-21				F	1250	841	18'-2
	204			ET WELD, VOGT # SW-2324 OR	EQUAL, 2", 3000 PSI B, ASTM A-53, OR API 5L GRADE					M022556	2	EA	GS&S B-21				G	1250	817	17'-8
	205), THREADED FNPT, 2,700 PSIG M					M021584 M650446	2	EA EA	GS&S B-13.2 GS&S F-20				Н	460	173	10'-2
	207	PLUG, 2", HEX HE	AD, VOGT # 258	O OR EQUAL, THREADED, FORG	iED STEEL, 6000 PSI					M021266	2	EA	GS&S B-10.1				1	100	19	5'-0"
	208			" HOLES FOR GAUGE TAPS						N/A	2	EA	-	SUPPLI	ED BY CONSTRUCTION	ON	J	400	137	9'-3"
FOLD	209	PIPE, PIPELINE MA			SCHEDULE 40, W/ CLAMP ON U-E	BOLT & PRESS-ON CAP				M042184 M018566	16	EA EA	GS&S K-42 GS&S L-11.1				K	400	124	8'-4"
С	212	SIGN, PADDLE MA		·	/ARE OR POST, 0.08" THICK ALUM		N RESISTANT WH	HITE COATING	FOR PIPELINE	M379959	9	EA	GS&S L-11.1				L	35	11	8'-4"
	213	MARKER POST BRACKET, U-BOLT	Γ ASSEMBLY WIT	H 1/4" GALV BOLT, TO FIT 2.37						M018704	9	EA	GS&S L-11.1				M	240	74	8'-4"
	214	SIGN, "WARNING	GAS PIPELINE",	IN ENGLISH, (800) 811-4111, S	ELF-ADHESIVE, DECAL STYLE					M379962	29	EA	GS&S L-12				N	100	19	5'-0"
	215				A DE GAS (800) 811-4111, SELF-AD	DHESIVE DECAL STYLE				M379961	29	EA	GS&S L-12				0	36	8	5'-8"
	216			E SENSITIVE, SELF-ADHESIVE CTION, COTT MFG # 300S5, OF	RANGE, BIG FINK, 5 TERMINALS, V	WITHOUT CONDENSER				M379960 M569390	29	EA EA	GS&S L-12 CCV O-10.1				Р	764	212	7'-6"
	218	PIPE, PVC, 3" IPS ,	, 0.300" WT, SCH	80						M016071	10	FT	CCV O-10.1				Q	208	80	10'-4
	219	NIPPLE THREAD-C	O-RING (T-O-R) 2	" OD TDW T.D. WILLIAMSON IN	NC. PART# TR-000-0001-00 MODE	EL# DN-50 5.125" LONG CO	MPLETE WITH ST	TEEL CAP MAOI	P OF 3600 PSIG	M024707	4	EA	-	FC	OR HDD PRE-TEST		R	857 160	254 41	8'-0" 7'-0"
												P	PIPE INSPECT	ION TABLE				100		
			14" DESTRU	ICTIVE TEST SAMPLE (CV	/N) (3C) DELIVERY ADDRES	SS: 26102 EDEN LA	ANDING ROA	D SUITE 3, I	HAYWARD, (CA, 94545	(510) 887	-8811				5' DESTRUCTIV	/E TEST SAMPLE	(PPD) (3D) [DELIVERY ADDRE	ESS: 344
D				UNIQUE IDEN	ΓIFIER					EXIST	TING PIPE S	SPECIFICAT	TIONS (* = ASSU	IMED)		Τ	CHARGE 3A PROJECT ORDER#	Ī I	INSPECTION	NS REQUIRE
В	TASK : (1A)	# JOB # (1B)	LINE # (1C)	MILE POINT (1D) DIG SITE #	COC UNIQUEIDENTIFIER CUT SAMPLE (1F) SAMPLE (1G)	DRAWING DRAWING SHEET (1H) (1I)			OD (in.) (2C)	WT (in.)	MATERIAL GRADE (2E)	SEA TYF (2F	PE AND	G FEATURE TYPE (2H)	PFL / SFL FEATURE # (21)	PLANNED LENGTH OF TO BE REMOVED (2J)	COATING DISBONDM ASSESSME (3A)	ENT CHAI	LONG SEAM RACTERIZATION (3B)	14' DESTRU TEST SA (CVI
	1	74024169	021A	14.46		5, 10 00+00.0	174876	1971	26	0.295	60000	DOU! SUBME		PIPE - NO CASING	83	X > 5 FT	YES		NO	NC

	EXCAVAT	TION AREAS	
ID	AERA (SQ. FT.)	VOLUME (CU. FT.)	DEPTH
Α	36	7	5'-2"
В	240	73	8'-3"
С	1,150	426	10'-0"
D	100	31	8'-6"
Е	255	142	8'-6" - 17'-6"
F	1250	841	18'-2"
G	1250	817	17'-8"
Н	460	173	10'-2"
I	100	19	5'-0"
J	400	137	9'-3"
K	400	124	8'-4"
L	35	11	8'-4"
M	240	74	8'-4"
N	100	19	5'-0"
0	36	8	5'-8"
Р	764	212	7'-6"
Q	208	80	10'-4"
R	857	254	8'-0"
S	160	41	7'-0"

														PIPE II	NSPECTIO	N TABLE								
		14" DESTRU	CTIVE TEST	SAMPLE (CVN)) (3C) DELIVERY	ADDRESS	S: 26102	2 EDEN LAND	NG ROAD S	SUITE 3, H	AYWARD, (CA, 94545	(510) 887-	8811				5' DESTRUCTIVE	TEST SAMPLE (PPD) (3D) DELIVERY ADDRES	SS: 34453 PLYN	лоитн ave, ave	NAL, CA, 93204	(620) 874-1525
UNIQUE IDENTIFIER EXISTING PIPE SPECIFICATIONS (* = ASSUMED)							ED)	CHARGE 3A TO PROJECT INSPECTIONS REQUIRED (CHARGE TO PM#43378092) ORDER#						78092)										
ASK # (1A)	JOB # (1B)	LINE # (1C)	MILE POINT (1D)	DIG SITE #	SAMPLE TI	D		DRAWING P STATION (11)	INSTALL JOB # (2A)	INSTALL YEAR (2B)	OD (in.) (2C)	WT (in.) (2D)	MATERIAL GRADE (2E)	SEAM TYPE (2F)	FITTING RATING AND MWP (2G)	FEATURE TYPE (2H)	PFL / SFL FEATURE # (21)	PLANNED LENGTH OF TO BE REMOVED (2J)	COATING DISBONDMENT ASSESSMENT (3A)	LONG SEAM CHARACTERIZATION (3B)	14" DESTRUCTIVE TEST SAMPLE (CVN) (3C)	5' DESTRUCTIVE TEST SAMPLE (PPD) (3D)	FITTINGS VERIFICATION (3E)	COMMENTS
1	74024169	021A	14.46				5, 10	00+00.0	174876	1971	26	0.295	60000	DOUBLE SUBMERGED ARC WELD *	N/A	PIPE - NO CASING	83	X > 5 FT	YES	NO	NO	YES		
2	74024169	021A	15.14				8, 11	35+30.7	174876	1971	26	0.295	60000	DOUBLE SUBMERGED ARC WELD *	N/A	PIPE - NO CASING	155	X > 5 FT	YES	NO	NO	YES		
<u> </u>	74024169	0406-03	0.08				9, 12	110+40.6	490635	1976	4.5	0.237	35000	SEAMLESS	N/A	PIPE - NO CASING	20.1	X > 5 FT	YES	YES	NO	NO		

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

	DESIGN CRITERIA CHERENT CLASS DESIGN FOR MACON DELIC © 2000									
BOM#	OD (IN)	WT (IN)	SMYS (PSI)	CURRENT CLASS	DESIGN	F	DP	М	AOP	PSIG @ 90%
BOIVI#	OD (IIV)	VV 1 (11 1)	310113 (F31)	LOCATION	FACTOR	(PSIG)	(% SMYS)	(PSIG)	(% SMYS)	SMYS
101	26.000	0.500	65000	1	0.72	450	18.00%	450	18.00%	2250
102	26.000	0.375	65000	1	0.72	450	24.00%	450	24.00%	1688
104	4.500	0.237	42000	1	0.72	450	10.17%	450	10.17%	3982
106 205	2.375	0.154	35000	1	0.72	450	9.91%	450	9.91%	4086

	ASSOIVILD VALUES FEIT FOOL
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ZERO IN ON SAFETY	R
SAFEIY	

	C	12/21/22	RE-ISSUED FOR PERMIT	74024169	DNG		AG	PD	JQ
	B A	7/21/22 4/29/22	ISSUED FOR PERMIT 90% ISSUED FOR REVIEW	74024169 74024169	DNG DNG		AG AG	PD PD	JQ
ERO IN ON	REV.	DATE	DESCRIPTION	ORDER	DWN	ADE	ENG	ENG A	
SAFETY			REVISIONS						

PIPELINE - BILL OF MATERIAL / PIPE INSPECTION TABLE BILL OF MATL SHEET 16 L-021A MP 14.46-15.14, DFM 0406-03 MP 0.00 - 0.08 ILI UPGRADE 26" PIPE NAPA, NAPA COUNTY

GAS TRANSMISSION & DISTRIBUTION
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO, CALIFORNIA

I-195E

SHEET NO. 16 OF 20 SHEETS

A Kleinfelder Company 575 Lennon Lane, Suite 250 Walnut Creek, CA 94598 Project No. 00191020.000A

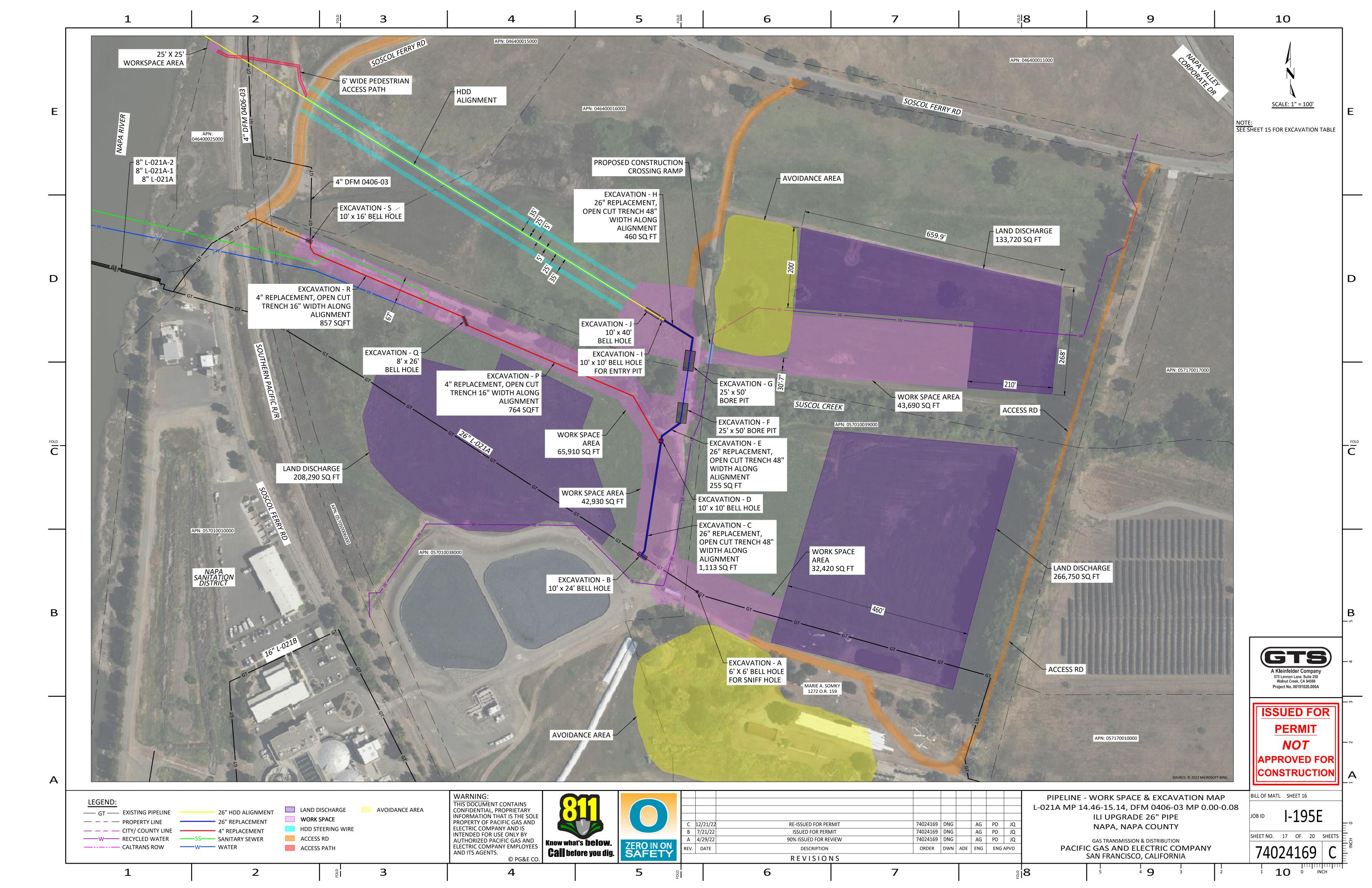
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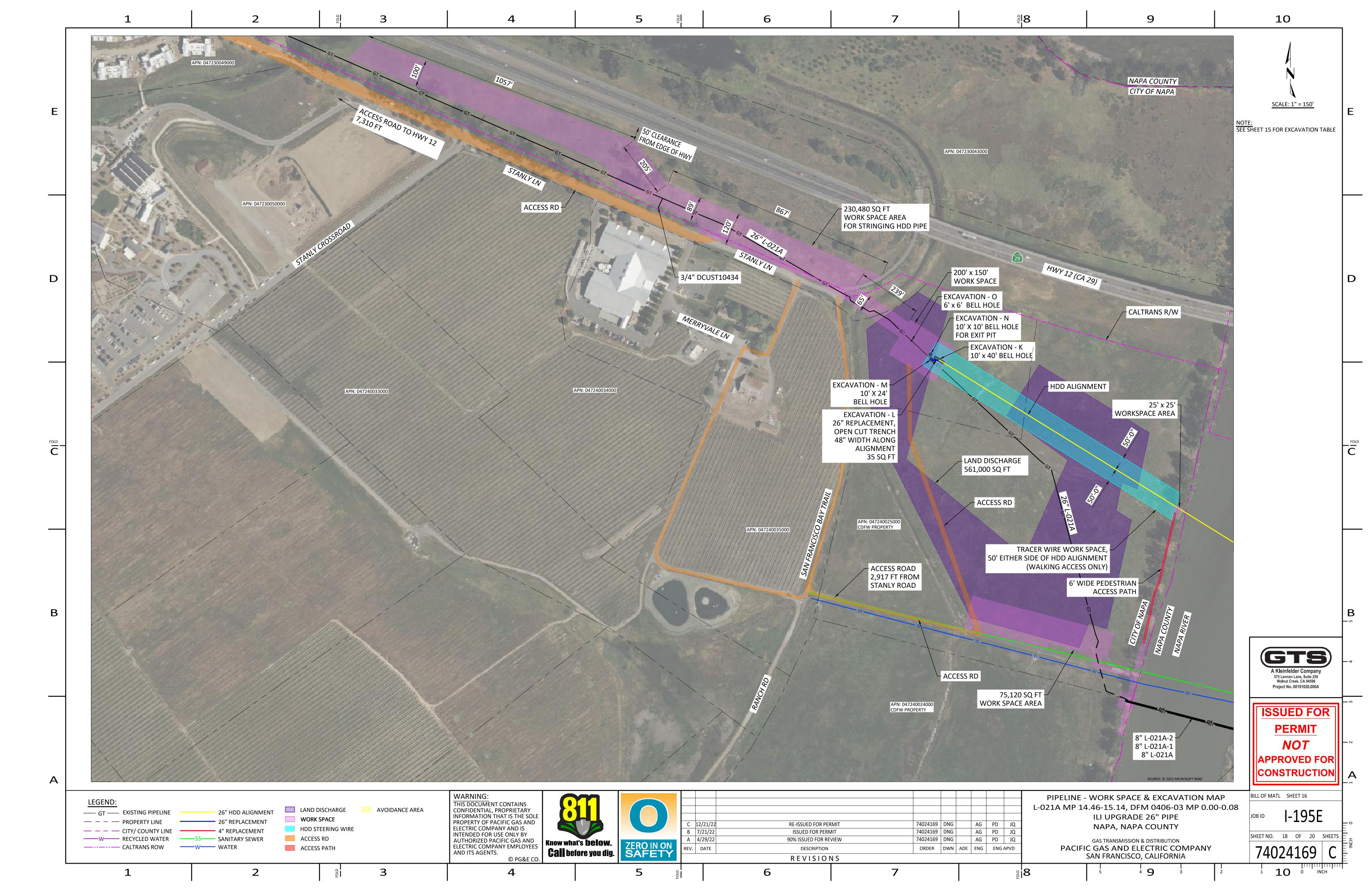
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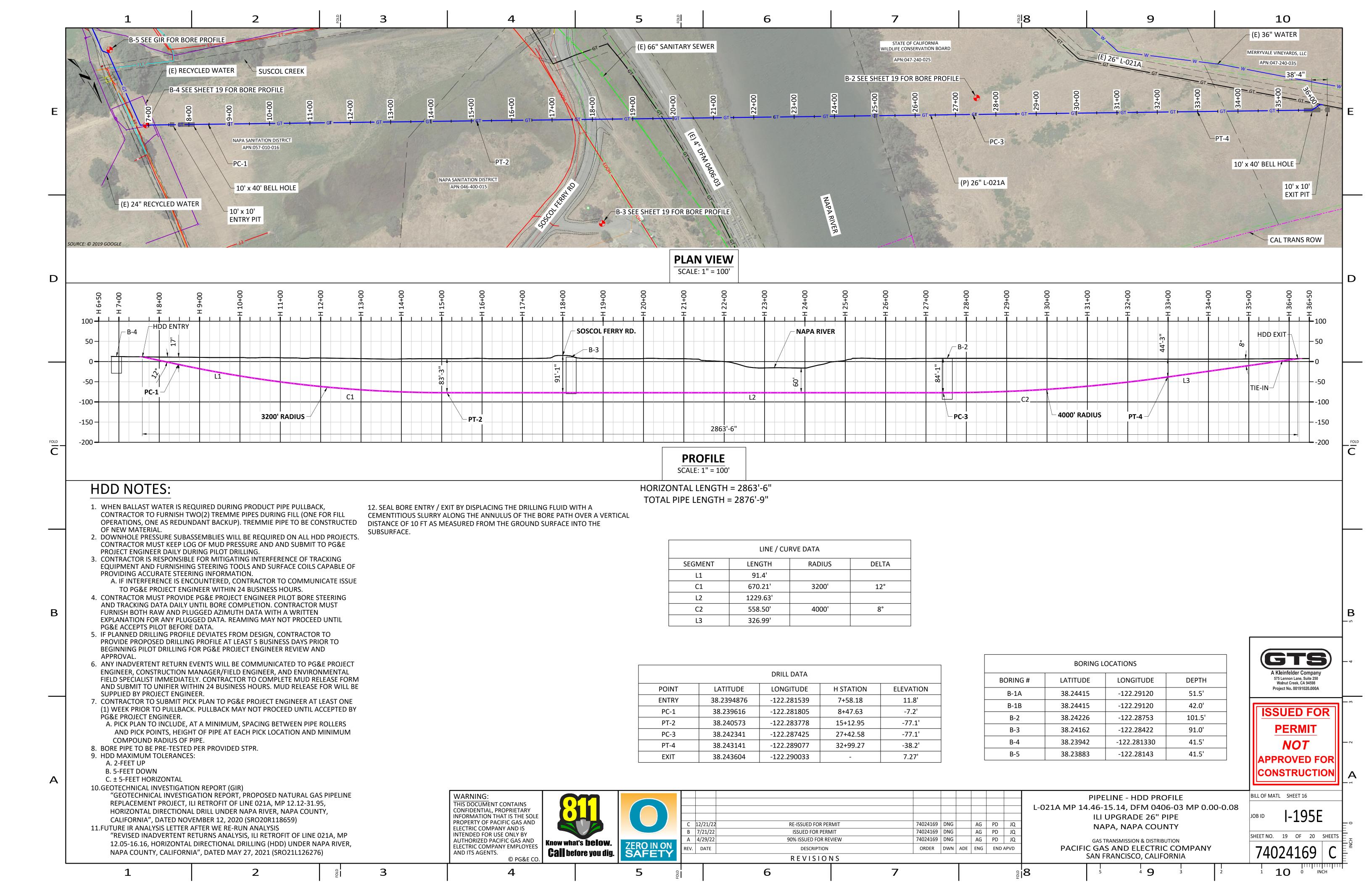
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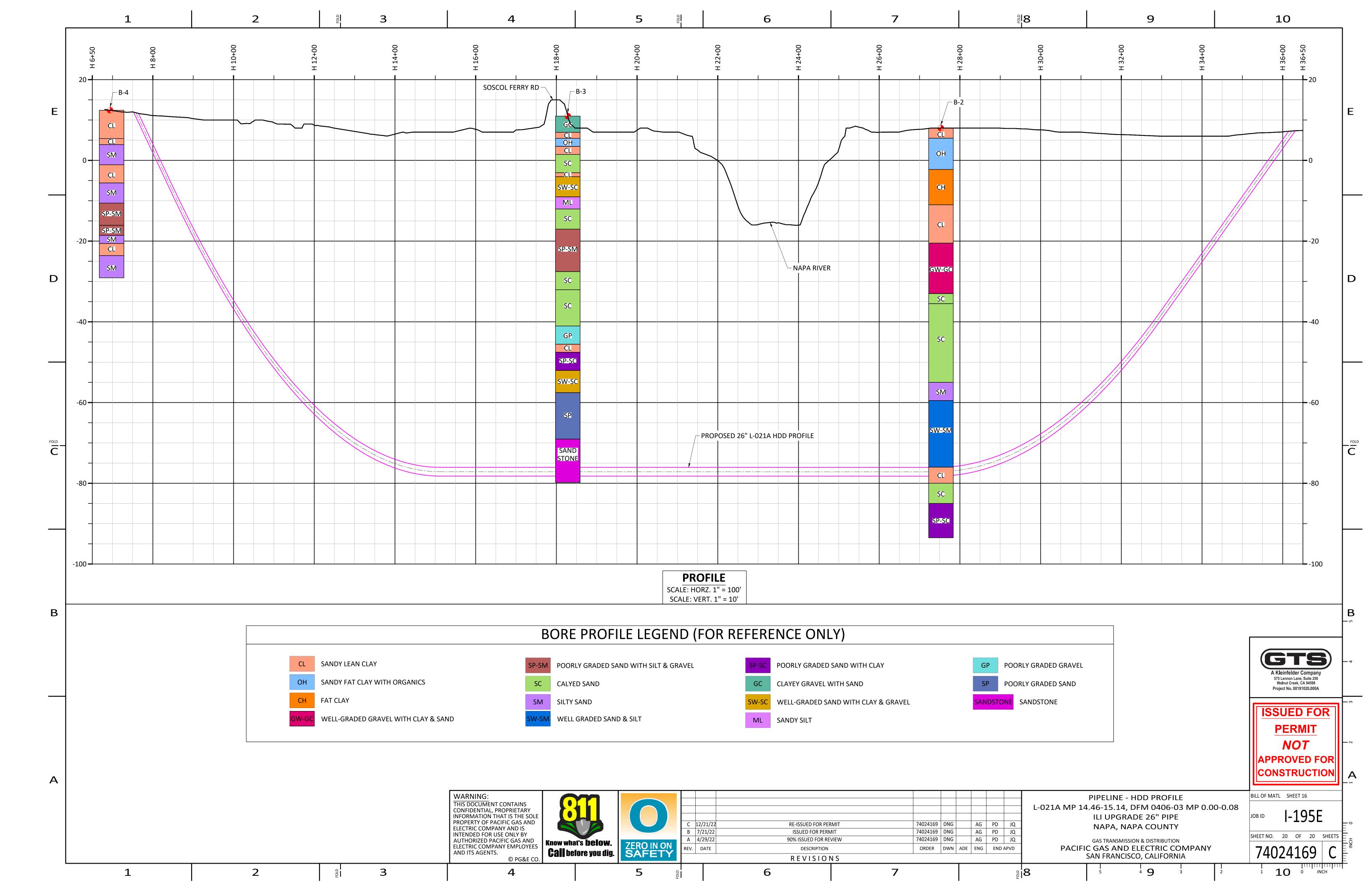
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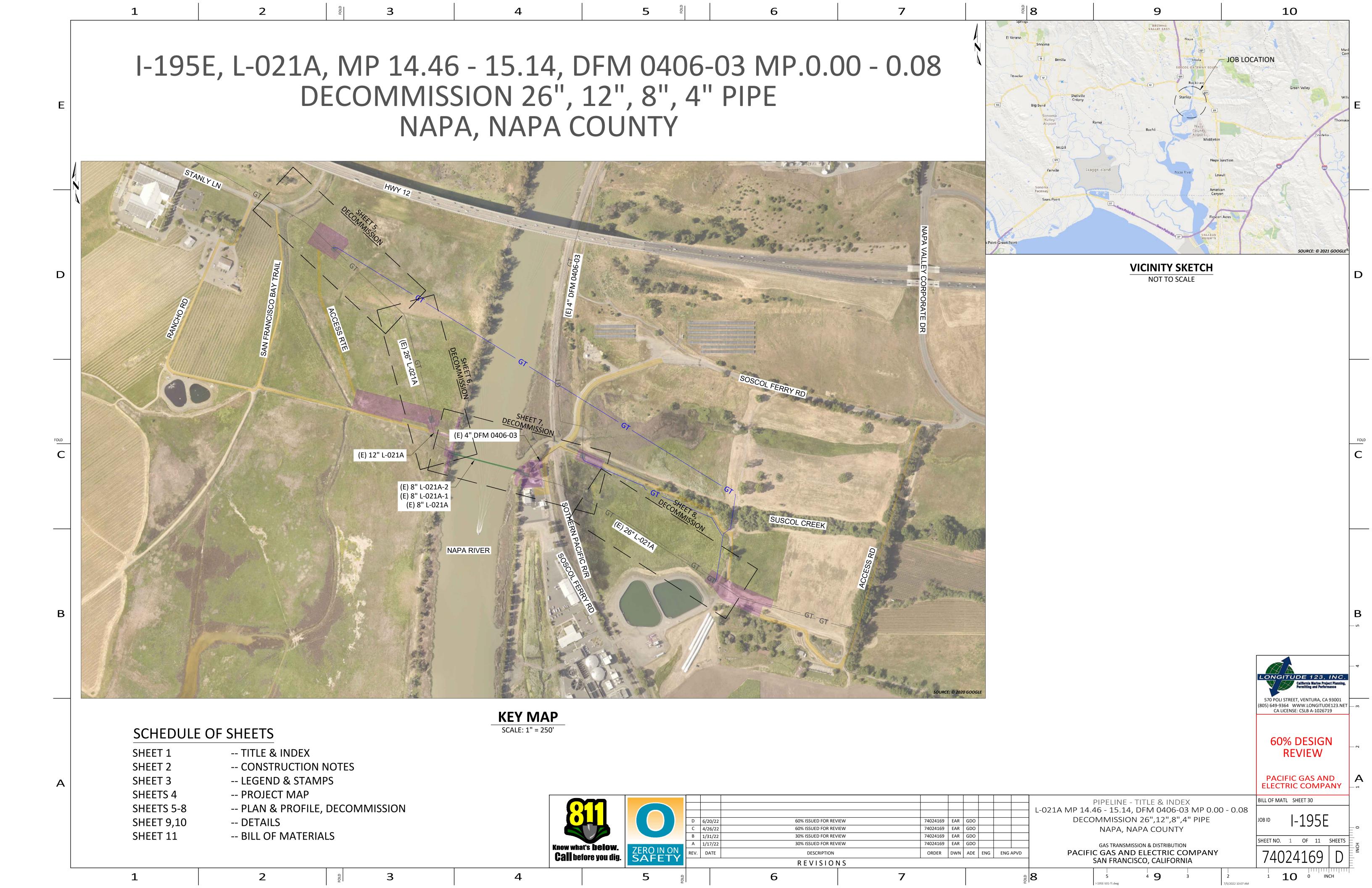
CONSTRUCTION











BUNDLE. THE DATA SPREAD WAS INTERPRETED TO ATTEMPT TO

DETERMINE THE RELATIVE POSITIONS OF ALL THREE PIPES

SURVEY CONTROL									
PT ID	NORTHING	EASTING	ELEV.	DESCRIPTION					
901	2,179,960.09	6,585,329.54	69.05	REBAR & CAP					
902	2,179,325.99	6,585,248.10	70.25	CHISELED X					
905	2,179,539.25	6,584,790.86	77.65	NAIL					
906	2,179,954.32	6,584,808.10	72.50	REBAR & CAP					

60% DESIGN REVIEW

PACIFIC GAS AND ELECTRIC COMPANY

BILL OF MATL SHEET 30 JOB ID

SHEET NO. 2 OF 11 SHEETS

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

SAFETY

60% ISSUED FOR REVIEW 6/20/22 74024169 | EAR | GDO | 4/26/22 60% ISSUED FOR REVIEW 74024169 | EAR | GDO | B 1/31/22 30% ISSUED FOR REVIEW 74024169 | EAR | GDO | 30% ISSUED FOR REVIEW 74024169 | EAR | GDO | A 1/17/22 REV. DATE ORDER DWN ADE ENG ENG APVD DESCRIPTION REVISIONS

GAS TRANSMISSION & DISTRIBUTION PACIFIC GAS AND ELECTRIC COMPANY SAN FRANCISCO, CALIFORNIA

PIPELINE - CONSTRUCTION NOTES L-021A MP 14.46 - 15.14, DFM 0406-03 MP 0.00 - 0.08 DECOMMISSION 26",12",8",4" PIPE

NAPA, NAPA COUNTY

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FOLLOWING WORK PROCEDURES:

SHUTDOWN AND TIE-IN.

12. TIE-IN AND CLEARANCE PROCEDURE TO BE PREPARED AND PERFORMED IN ACCORDANCE WITH THE

A. TD-4100P-01, HOT AND COLD WORK METHODS FOR NATURAL GAS TRANSMISSION PIPELINE

B. TD-4441S, GAS CLEARANCE PROCEDURES FOR FACILITIES OPERATING OVER 60 PSIG.

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