

60	100	Σ 1896Σ0-AA	7	066
ON REV.	SHT. NO.	DRAWING NUMBER	INDEX	PLANT NO.

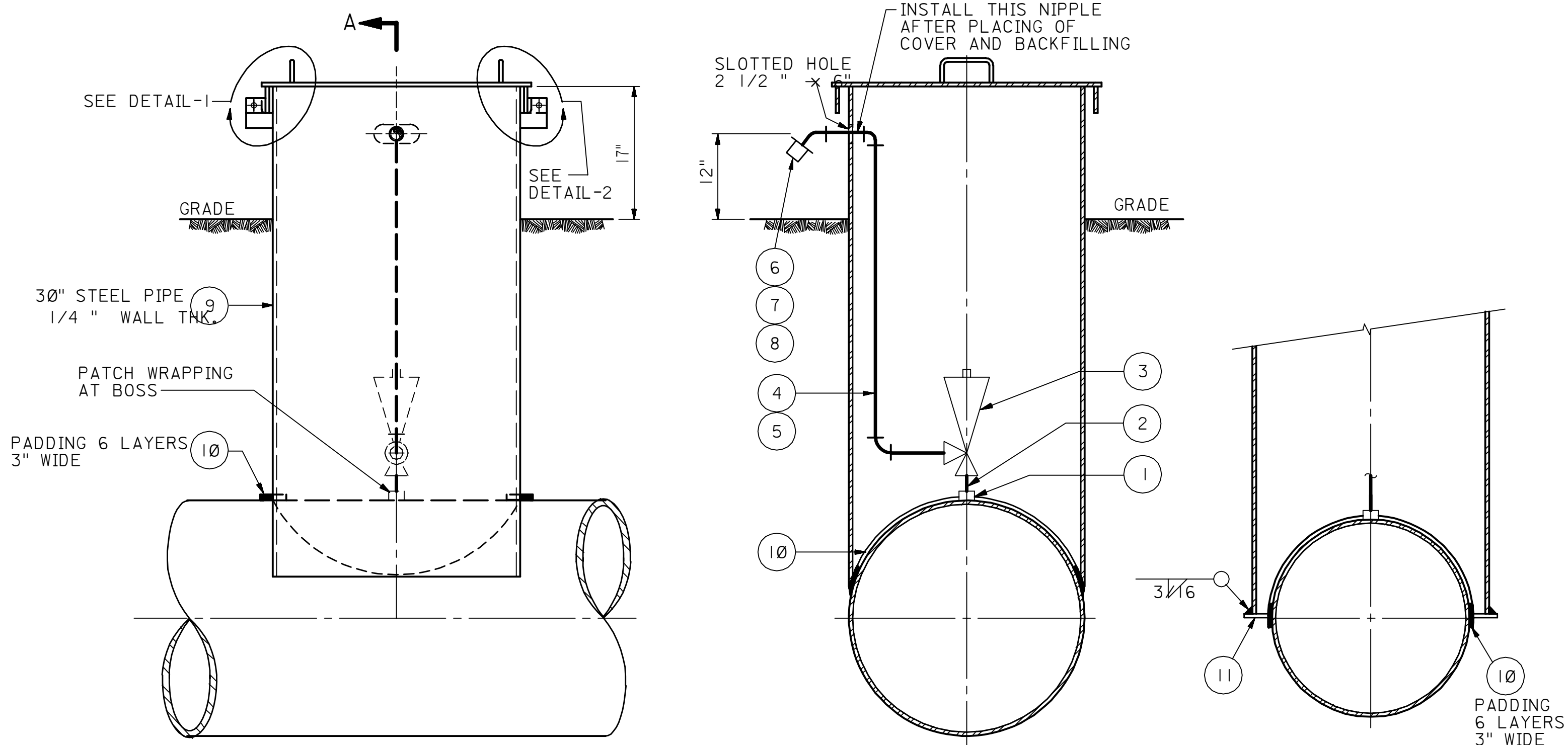
PRESSURE RATING OF FLANGES IN PIPELINE

CLASS 150, 300 & 600 R.F.					CLASS 900 R.J.					CLASS 1500 R.J.					CLASS 2500 R.J.				
CODE NO.	AMS NO.	DESCRIPTION	QTY. FOR ONE VENT	CODE NO.	AMS NO.	DESCRIPTION	QTY. FOR ONE VENT	CODE NO.	AMS NO.	DESCRIPTION	QTY. FOR ONE VENT	CODE NO.	AMS NO.	DESCRIPTION	QTY. FOR ONE VENT	CODE NO.	AMS NO.	DESCRIPTION	QTY. FOR ONE VENT
1	02-455-408	WELDING BOSS; HEAVY; 1"	1	1	02-455-408	WELDING BOSS; HEAVY; 1"	1	1	02-455-408	WELDING BOSS; HEAVY; 1"	1	1	02-455-408	WELDING BOSS; HEAVY; 1"	1	1	02-455-408	WELDING BOSS; HEAVY; 1"	1
2	02-672-250	NIPPLE; SEAMLESS; STEEL; X-STRONG; 1" x 3" LG.	1	2	02-672-250	NIPPLE; SEAMLESS; STEEL; X-STRONG; 1" x 3" LG.	1	2	02-675-329	NIPPLE; SEAMLESS; STEEL; XX-STRONG; 1" x 3" LG.	1	2	02-675-329	NIPPLE; SEAMLESS; STEEL; XX-STRONG; 1" x 3" LG.	1	2	02-675-329	NIPPLE; SEAMLESS; STEEL; XX-STRONG; 1" x 3" LG.	1
3	04-053-935	VALVE; ANGLE; THREADED; CLASS 6000; 1"	1	3	XX-XXX-XXX	VALVE; ANGLE; THREADED; CLASS 1500; 1"	1	3	XX-XXX-XXX	VALVE; ANGLE; THREADED; CLASS 1500; 1"	1	3	XX-XXX-XXX	VALVE; ANGLE; THREADED; CLASS 1500; 1"	1	3	XX-XXX-XXX	VALVE; ANGLE; THREADED; CLASS 1500; 1"	1
4	01-165-056	PIPE; SEAMLESS; STEEL; SCH. 80; 1"	VARIES W/ PIPELINE SIZE	4	01-165-056	PIPE; SEAMLESS; STEEL; SCH. 80; 1"	VARIES W/ PIPELINE SIZE	4	01-160-060	PIPE; SEAMLESS; STEEL; SCH. 160; 1"	VARIES W/ PIPELINE SIZE	4	01-160-060	PIPE; SEAMLESS; STEEL; SCH. 160; 1"	VARIES W/ PIPELINE SIZE	4	01-160-060	PIPE; SEAMLESS; STEEL; SCH. 160; 1"	VARIES W/ PIPELINE SIZE
5	02-269-665	ELBOW 90°; THREADED; CLASS 3000; 1"		5	02-269-665	ELBOW 90°; THREADED; CLASS 3000; 1"		5	02-269-730	ELBOW 90°; THREADED; CLASS 6000; 1"		5	02-269-730	ELBOW 90°; THREADED; CLASS 6000; 1"		5	02-269-730	ELBOW 90°; THREADED; CLASS 6000; 1"	
6	02-672-258	NIPPLE; SEAMLESS; STEEL; X-STRONG; 1" x 4" LG.	1	6	02-672-258	NIPPLE; SEAMLESS; STEEL; X-STRONG; 1" x 4" LG.	1	6	02-675-333	NIPPLE; SEAMLESS; STEEL; XX-STRONG; 1" x 4" LG.	1	6	02-675-333	NIPPLE; SEAMLESS; STEEL; XX-STRONG; 1" x 4" LG.	1	6	02-675-333	NIPPLE; SEAMLESS; STEEL; XX-STRONG; 1" x 4" LG.	1
7	02-269-549	ELBOW 45°; THREADED; CLASS 3000; 1"	1	7	02-269-549	ELBOW 45°; THREADED; CLASS 3000; 1"	1	7	02-269-694	ELBOW 45°; THREADED; CLASS 6000; 1"	1	7	02-269-694	ELBOW 45°; THREADED; CLASS 6000; 1"	1	7	02-269-694	ELBOW 45°; THREADED; CLASS 6000; 1"	1
8	02-120-461	PLUG; STEEL; ROUND HEAD; THREADED; CLASS 6000; 1"	1	8	02-120-461	PLUG; STEEL; ROUND HEAD; THREADED; CLASS 6000; 1"	1	8	02-120-461	PLUG; STEEL; ROUND HEAD; THREADED; CLASS 6000; 1"	1	8	02-120-461	PLUG; STEEL; ROUND HEAD; THREADED; CLASS 6000; 1"	1	8	02-120-461	PLUG; STEEL; ROUND HEAD; THREADED; CLASS 6000; 1"	1
9	01-212-525	PIPE; STEEL; 1/4 " WALL THICKNESS; 30"	VARIES W/ PIPELINE SIZE	9	01-212-525	PIPE; STEEL; 1/4 " WALL THICKNESS; 30"	VARIES W/ PIPELINE SIZE	9	01-212-525	PIPE; STEEL; 1/4 " WALL THICKNESS; 30"	VARIES W/ PIPELINE SIZE	9	01-212-525	PIPE; STEEL; 1/4 " WALL THICKNESS; 30"	VARIES W/ PIPELINE SIZE	9	01-212-525	PIPE; STEEL; 1/4 " WALL THICKNESS; 30"	VARIES W/ PIPELINE SIZE
10	09-389-257	ROOFING; FIBERGLASS MAT		10	09-389-257	ROOFING; FIBERGLASS MAT		10	09-389-257	ROOFING; FIBERGLASS MAT		10	09-389-257	ROOFING; FIBERGLASS MAT		10	09-389-257	ROOFING; FIBERGLASS MAT	
11	12-066-549	PLATE; STEEL; 1/4 "	VARIES W/ PIPELINE SIZE	11	12-066-549	PLATE; STEEL; 1/4 "	VARIES W/ PIPELINE SIZE	11	12-066-549	PLATE; STEEL; 1/4 "	VARIES W/ PIPELINE SIZE	11	12-066-549	PLATE; STEEL; 1/4 "	VARIES W/ PIPELINE SIZE	11	12-066-549	PLATE; STEEL; 1/4 "	VARIES W/ PIPELINE SIZE
12	01-220-607	PIPE; STEEL; 1/4 " WALL THICKNESS; 31"-ALT. AMS NO. 01-200-607	3"	12	01-220-607	PIPE; STEEL; 1/4 " WALL THICKNESS; 31"-ALT. AMS NO. 01-200-607	3"	12	01-220-607	PIPE; STEEL; 1/4 " WALL THICKNESS; 31"-ALT. AMS NO. 01-200-607	3"	12	01-220-607	PIPE; STEEL; 1/4 " WALL THICKNESS; 31"-ALT. AMS NO. 01-200-607	3"	12	01-220-607	PIPE; STEEL; 1/4 " WALL THICKNESS; 31"-ALT. AMS NO. 01-200-607	3"
13	12-337-313	BAR; ROUND; STEEL; 1/4 "	18"	13	12-337-313	BAR; ROUND; STEEL; 1/4 "	18"	13	12-337-313	BAR; ROUND; STEEL; 1/4 "	18"	13	12-337-313	BAR; ROUND; STEEL; 1/4 "	18"	13	12-337-313	BAR; ROUND; STEEL; 1/4 "	18"
14	10-206-466	BOLT; MACHINE; WITH NUT; 1/2 " x 1 1/2 " LG.	2	14	10-206-466	BOLT; MACHINE; WITH NUT; 1/2 " x 1 1/2 " LG.	2	14	10-206-466	BOLT; MACHINE; WITH NUT; 1/2 " x 1 1/2 " LG.	2	14	10-206-466	BOLT; MACHINE; WITH NUT; 1/2 " x 1 1/2 " LG.	2	14	10-206-466	BOLT; MACHINE; WITH NUT; 1/2 " x 1 1/2 " LG.	2
15	10-592-455	NUT; JAM; HEAVY STEEL; 1/2 "	2	15	10-592-455	NUT; JAM; HEAVY STEEL; 1/2 "	2	15	10-592-455	NUT; JAM; HEAVY STEEL; 1/2 "	2	15	10-592-455	NUT; JAM; HEAVY STEEL; 1/2 "	2	15	10-592-455	NUT; JAM; HEAVY STEEL; 1/2 "	2
16	09-967-572	WRAPPING; 2" WIDE; FOR PIPE	0.1 ROLL	16	09-967-572	WRAPPING; 2" WIDE; FOR PIPE	0.1 ROLL	16	09-967-572	WRAPPING; 2" WIDE; FOR PIPE	0.1 ROLL	16	09-967-572	WRAPPING; 2" WIDE; FOR PIPE	0.1 ROLL	16	09-967-572	WRAPPING; 2" WIDE; FOR PIPE	0.1 ROLL
17	09-611-725	COATING; MASTIC TYPE; COALTAR BASE; SELF PRIMING	0.5 GALLONS	17	09-611-725	COATING; MASTIC TYPE; COALTAR BASE; SELF PRIMING	0.5 GALLONS	17	09-611-725	COATING; MASTIC TYPE; COALTAR BASE; SELF PRIMING	0.5 GALLONS	17	09-611-725	COATING; MASTIC TYPE; COALTAR BASE; SELF PRIMING	0.5 GALLONS	17	09-611-725	COATING; MASTIC TYPE; COALTAR BASE; SELF PRIMING	0.5 GALLONS

1	02-455-408	WELDING BOSS; HEAVY; 1"	1	1	02-455-408	WELDING BOSS; HEAVY; 1"	1	1	02-455-408	WELDING BOSS; HEAVY; 1"	1	1	02-455-408	WELDING BOSS; HEAVY; 1"	1	1	02-455-408	WELDING BOSS; HEAVY; 1"	1
2	02-672-250	NIPPLE; SEAMLESS; STEEL; X-STRONG; 1" x 3" LG.	1	2	02-672-250	NIPPLE; SEAMLESS; STEEL; X-STRONG; 1" x 3" LG.	1	2	02-675-329	NIPPLE; SEAMLESS; STEEL; XX-STRONG; 1" x 3" LG.	1	2	02-675-329	NIPPLE; SEAMLESS; STEEL; XX-STRONG; 1" x 3" LG.	1	2	02-675-329	NIPPLE; SEAMLESS; STEEL; XX-STRONG; 1" x 3" LG.	1
3	04-053-935	VALVE; ANGLE; THREADED; CLASS 6000; 1"	1	3	XX-XXX-XXX	VALVE; ANGLE; THREADED; CLASS 1500; 1"	1	3	XX-XXX-XXX	VALVE; ANGLE; THREADED; CLASS 1500; 1"	1	3	XX-XXX-XXX	VALVE; ANGLE; THREADED; CLASS 1500; 1"	1	3	XX-XXX-XXX	VALVE; ANGLE; THREADED; CLASS 1500; 1"	1
4	02-672-274	NIPPLE; SEAMLESS; STEEL; X-STRONG; 1" x 6" LG.	1	4	02-672-274	NIPPLE; SEAMLESS; STEEL; X-STRONG; 1" x 6" LG.	1	4	02-675-337	NIPPLE; SEAMLESS; STEEL; XX-STRONG; 1" x 6" LG.	1	4	02-675-337	NIPPLE; SEAMLESS; STEEL; XX-STRONG; 1" x 6" LG.	1	4	02-675-337	NIPPLE; SEAMLESS; STEEL; XX-STRONG; 1" x 6" LG.	1
5	02-269-549	ELBOW 45°; THREADED; CLASS 3000; 1"	1	5	02-269-549	ELBOW 45°; THREADED; CLASS 3000; 1"	1	5	02-269-694	ELBOW 45°; THREADED; STEEL; XX-STRONG	1	5	02-269-694	ELBOW 45°; THREADED; STEEL; XX-STRONG	1	5	02-269-694	ELBOW 45°; THREADED; STEEL; XX-STRONG	1
6	02-120-461	PLUG; STEEL; ROUND HEAD; THREADED; CLASS 6000; 1"	1	6	02-120-461	PLUG; STEEL; ROUND HEAD; THREADED; CLASS 6000; 1"	1	6	02-120-461	PLUG; STEEL; ROUND HEAD; THREADED; CLASS 6000; 1"	1	6	02-120-461	PLUG; STEEL; ROUND HEAD; THREADED; CLASS 6000; 1"	1	6	02-120-461	PLUG; STEEL; ROUND HEAD; THREADED; CLASS 6000; 1"	1
7	01-140-608	PIPE; STEEL; 1/4 " WALL THICKNESS; 12"	20"	7	01-140-608	PIPE; STEEL; 1/4 " WALL THICKNESS; 12"	20"	7	01-140-608	PIPE; STEEL; 1/4 " WALL THICKNESS; 12"	20"	7	01-140-608	PIPE; STEEL; 1/4 " WALL THICKNESS; 12"	20"	7	01-140-608	PIPE; STEEL; 1/4 " WALL THICKNESS; 12"	20"
8	09-389-257	ROOFING; FIBERGLASS MAT	16 sq. FT.	8	09-389-257	ROOFING; FIBERGLASS MAT	16 sq. FT.	8	09-389-257	ROOFING; FIBERGLASS MAT	16 sq. FT.	8	09-389-257	ROOFING; FIBERGLASS MAT	16 sq. FT.	8	09-389-257	ROOFING; FIBERGLASS MAT	16 sq. FT.
9	12-066-549	PIPE; STEEL; 1/4 "	13 1/4 " x 3 9/16"	9	12-066-549	PIPE; STEEL; 1/4 "	13 1/4 " x 3 9/16"	9	12-066-549	PIPE; STEEL; 1/4 "	13 1/4 " x 3 9/16"	9	12-066-549	PIPE; STEEL; 1/4 "	13 1/4 " x 3 9/16"	9	12-066-549	PIPE; STEEL; 1/4 "	13 1/4 " x 3 9/16"
10	12-408-904	ANGLE BAR; 2" x 2" x 1/4 " THICK	4"	10	12-408-904	ANGLE BAR; 2" x 2" x 1/4 " THICK	4"	10	12-408-904	ANGLE BAR; 2" x 2" x 1/4 " THICK	4"	10	12-408-904	ANGLE BAR; 2" x 2" x 1/4 " THICK	4"	10	12-408-904	ANGLE BAR; 2" x 2" x 1/4 " THICK	4"
11	10-206-478	BOLT; MACHINE; WITH HEX. NUT; 1/2 " x 2 1/2 " LG.	2	11	10-206-478	BOLT; MACHINE; WITH HEX. NUT; 1/2 " x 2 1/2 " LG.	2	11	10-206-478	BOLT; MACHINE; WITH HEX. NUT; 1/2 " x 2 1/2 " LG.	2	11	10-206-478	BOLT; MACHINE; WITH HEX. NUT; 1/2 " x 2 1/2 " LG.	2	11	10-206-478	BOLT; MACHINE; WITH HEX. NUT; 1/2 " x 2 1/2 " LG.	2
12	10-592-455	NUT; JAM; HEAVY STEEL; 1/2 "	4	12	10-592-455	NUT; JAM; HEAVY STEEL; 1/2 "	4	12	10-592-455	NUT; JAM; HEAVY STEEL; 1/2 "	4	12	10-592-455	NUT; JAM; HEAVY STEEL; 1/2 "	4	12	10-592-455	NUT; JAM; HEAVY STEEL; 1/2 "	4

FOR BURIED LINES

USE EXTENSION HANDLE TO OPERATE VALVE



ELEVATION

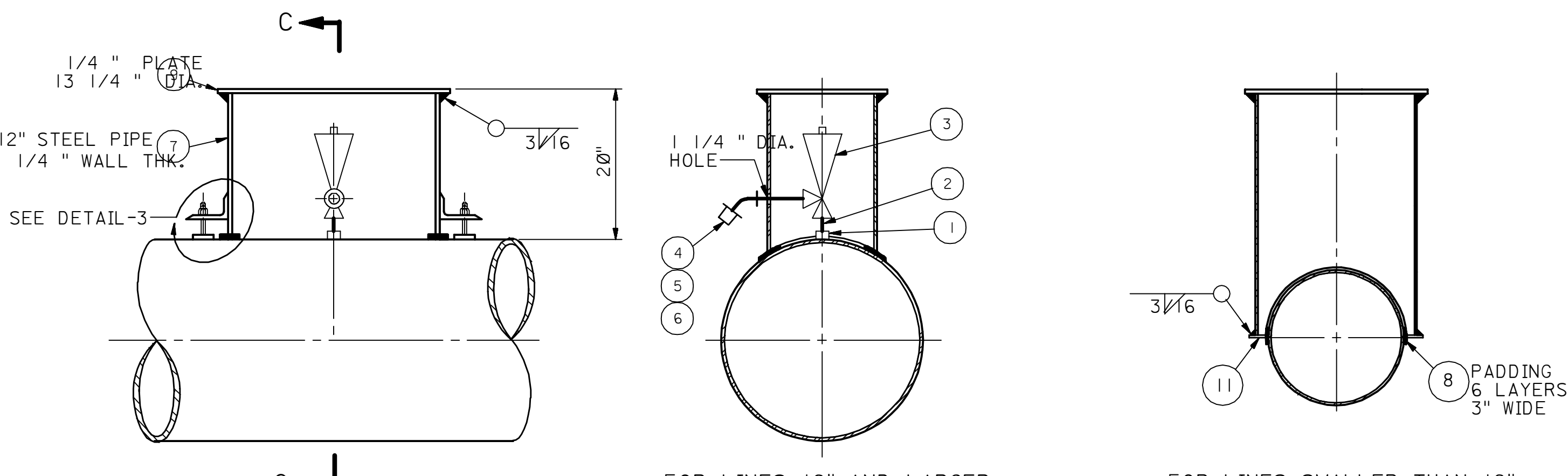
FOR LINES 30" AND LARGER

SECTION A-A

FOR LINES SMALLER THAN 30"

FOR ABOVE GROUND LINES

(INSTALLATION OF PROTECTIVE COVER IS OPTIONAL)

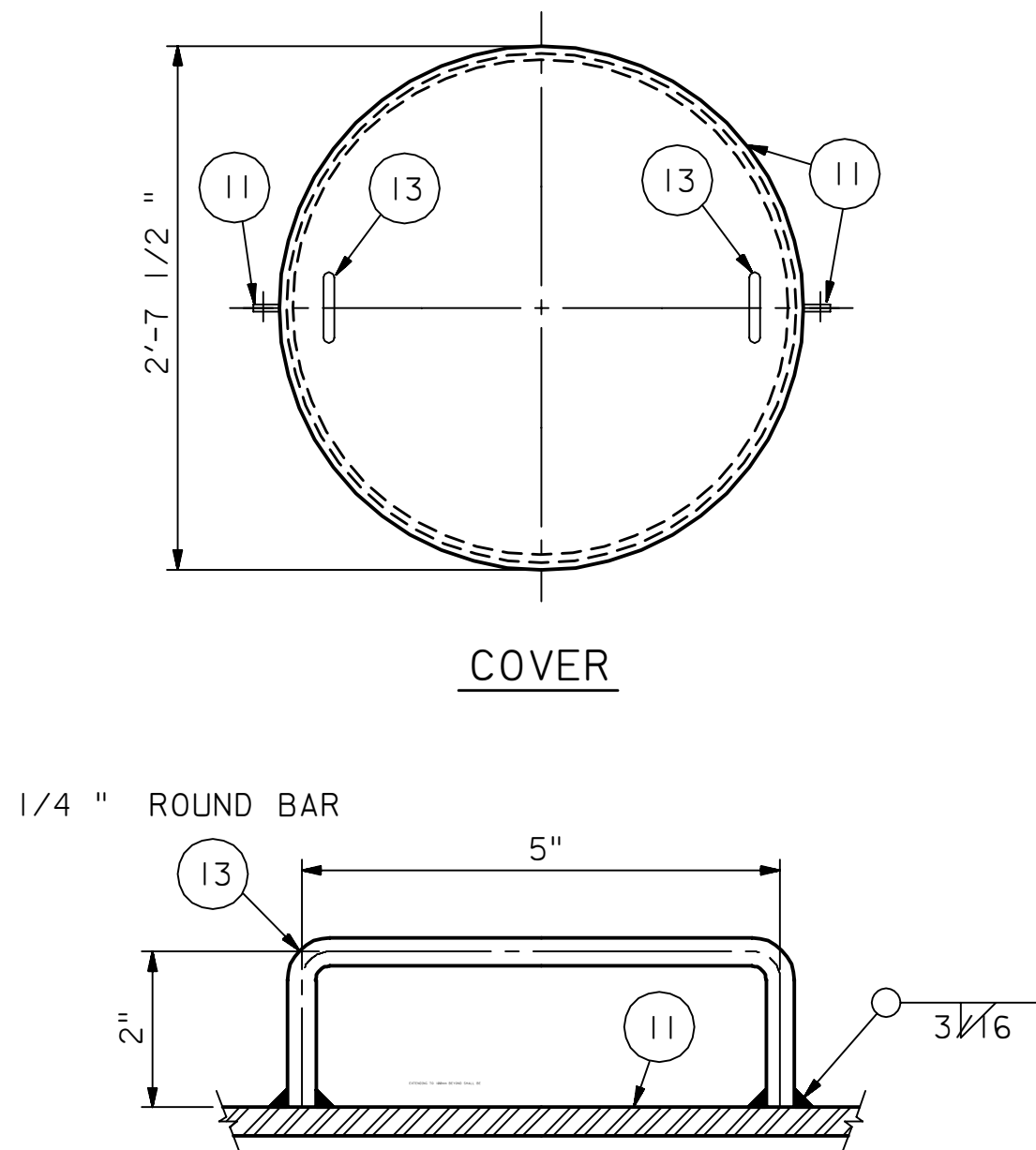


ELEVATION

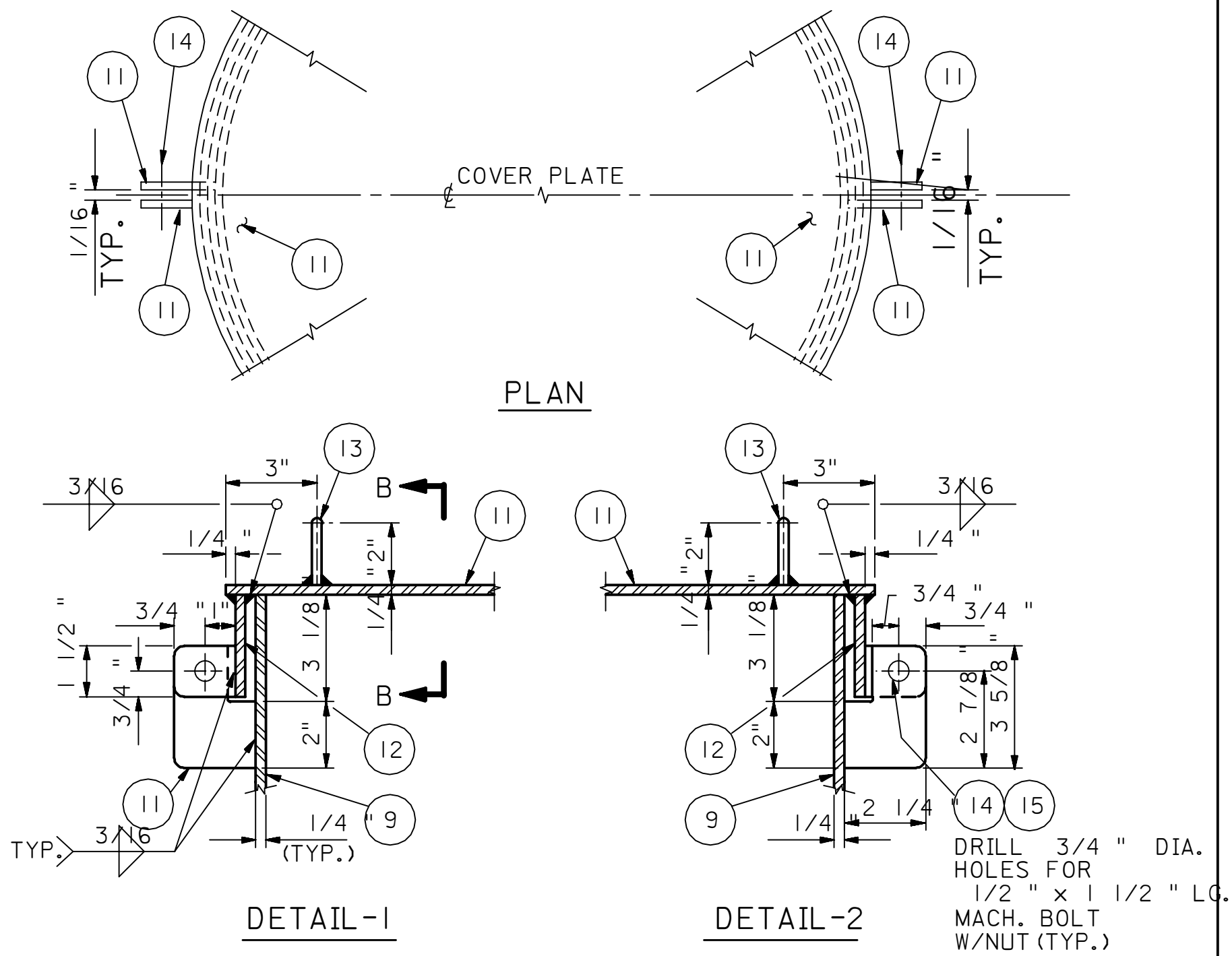
FOR LINES 12" AND LARGER

FOR LINES SMALLER THAN 12"

SECTION C-C



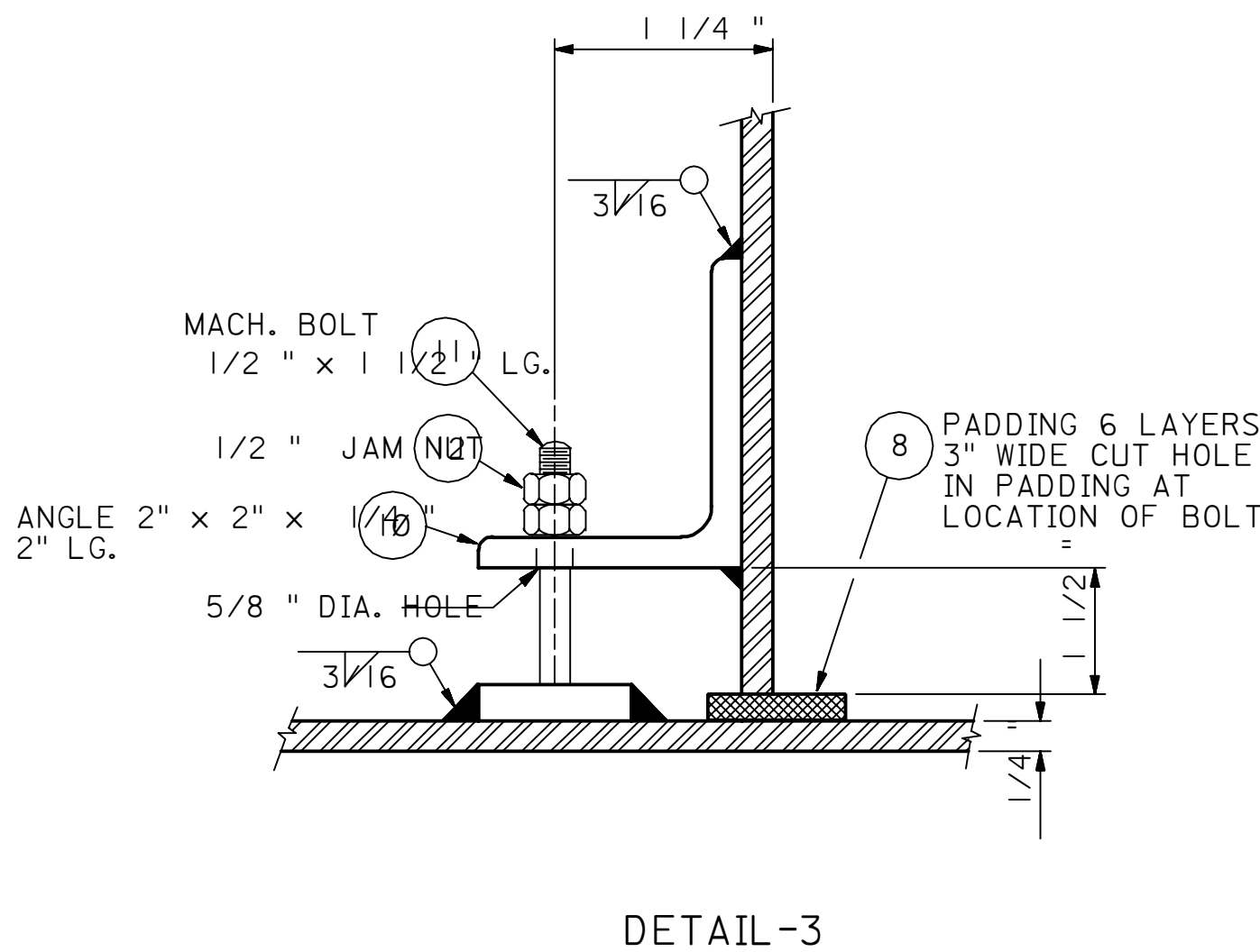
SECTION B-B



PLAN

DETAIL-1

DETAIL-2



DETAIL-3

NOTES: CONSTRUCTION NOTES

1. SEAL WELD THREADED CONNECTIONS BETWEEN PIPELINE AND VENT VALVE.
2. APPLY HEAVY GREASE TO NUTS AND BOLT THREADS BEFORE INSTALLING.
3. COAT ALL BURIED SURFACES IN ACCORDANCE WITH APCs-113 COATINGS SYSTEM.
4. COAT ALL ABOVE GROUND SURFACES IN ACCORDANCE WITH APCs-4 COATINGS SYSTEM.
5. LOCATE A KILOMETER MARKER IN ACCORDANCE WITH STD. DWG. AA-036907 ADJACENT TO EACH VENT.
6. PROVIDE GUARD RAIL SIMILAR TO TYPE 4 OF STD. DWG. AC-036081, FOR BURIED LINES ONLY.
7. PIPELINE UNDERNEATH THE VENT COVER AND WITH 20 MILS DRY FILM THICKNESS OF APCs-113 MASTICAMS NO. 09-697-835 OR 09-697-831/832. THOROUGHLY POWER WIRE BRUSHED, THEN COATED GENERALLY NOT NECESSARY ON THIS APPLICATION PIPELINES WITH IN AES-H-002. EXTERNAL COATINGS ALLOWED

3 1/4 "

TYPICAL INSTALLATION DRAWING

09	DEC89	ESSD RLO	CHANGED AMS NO. & MATERIAL DESCRIPTION OF ITEM NOS. 8 & 10.			
08	AUG89	RLO	GENERAL REVISION			
07	SEP88	RLO	DWG. DIGITIZED INTO CADD DATABASE & ADDED TYPICAL INSTALLATION DRAWING			
REV. NO.	DATE	BY	JO/EWO	DESCRIPTION	CHKD.	CERT. APPD.
SAUDI ARABIAN OIL COMPANY						
DRAWN BY P.T. CHECKED BY MV SCALE: NONE						
DATE STARTED DATE COMPLETED 03-24-61						
OPR'G. DEPT. ENG. DEPT. JWB						
APP'D. FOR CONST.						
THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION OR FOR ORDERING MATERIAL UNTIL CERTIFIED AND DATED						
CERTIFIED BY JAS DATE 03-27-61						
PIPELINE VENTS ASSEMBLY AND DETAILS						
STD. DWG.						
PLANT NO.	INDEX	DRAWING NUMBER		SHT. NO.	REV. NO.	
990	L	AA-036873		001	09	