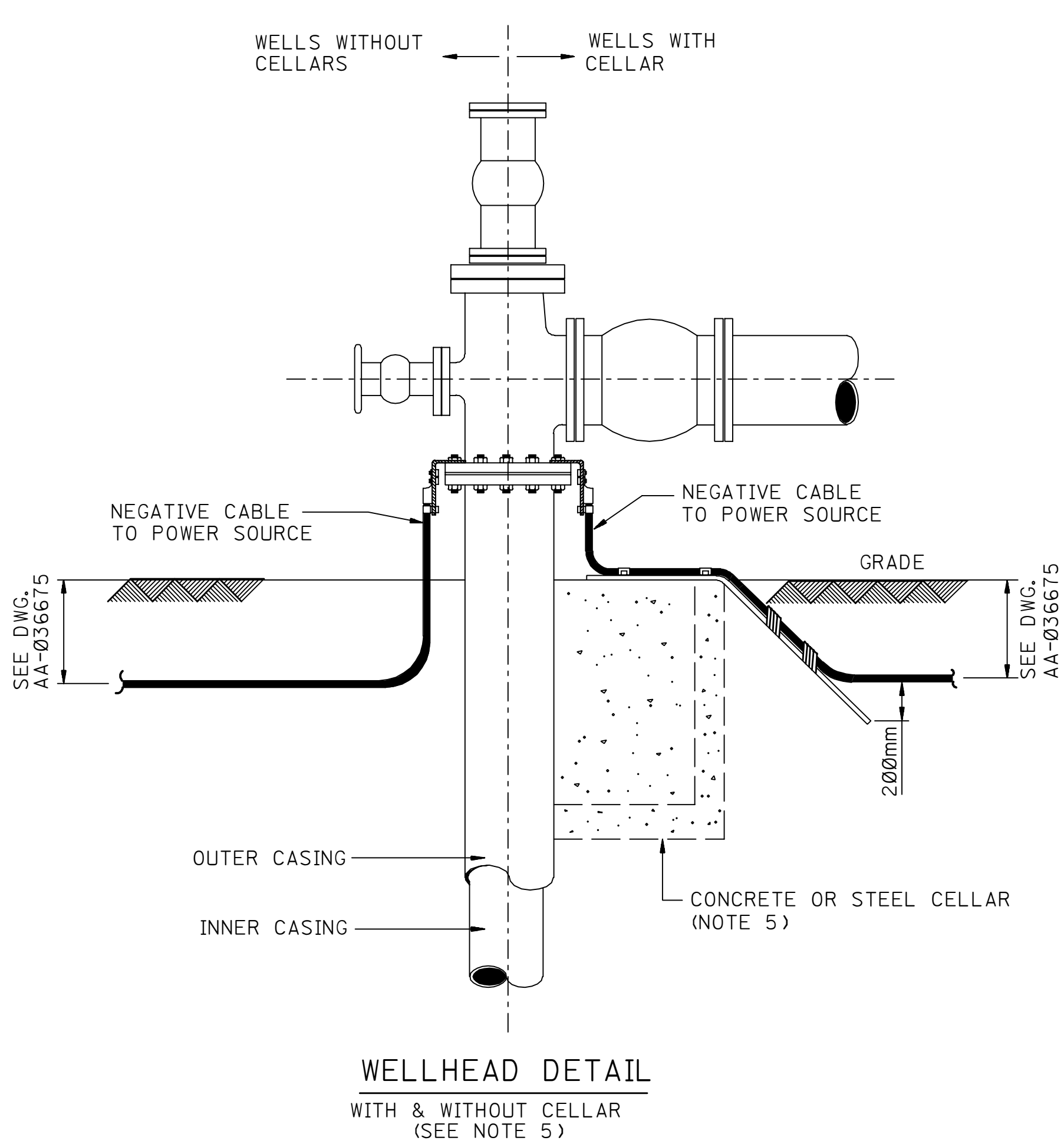
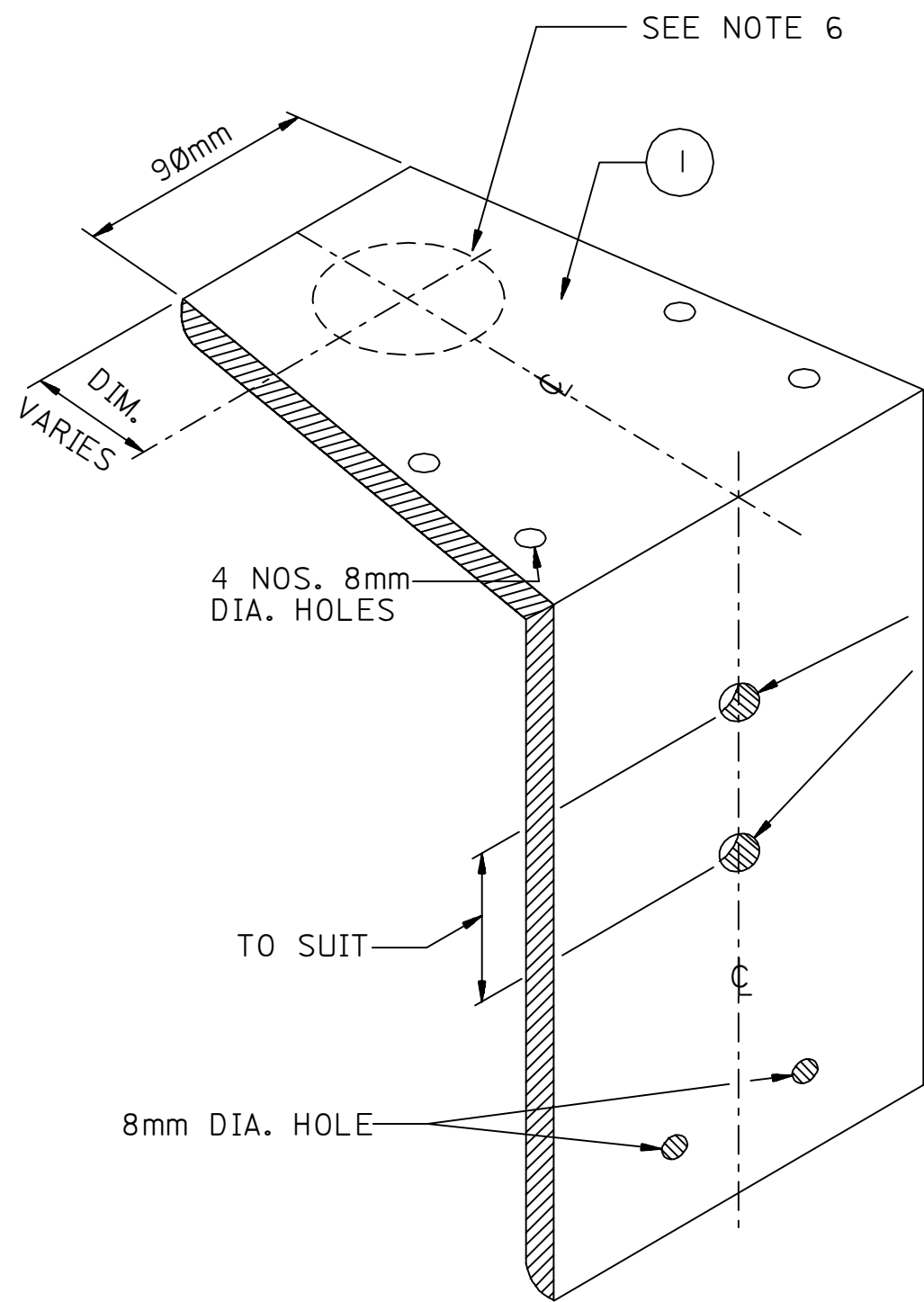


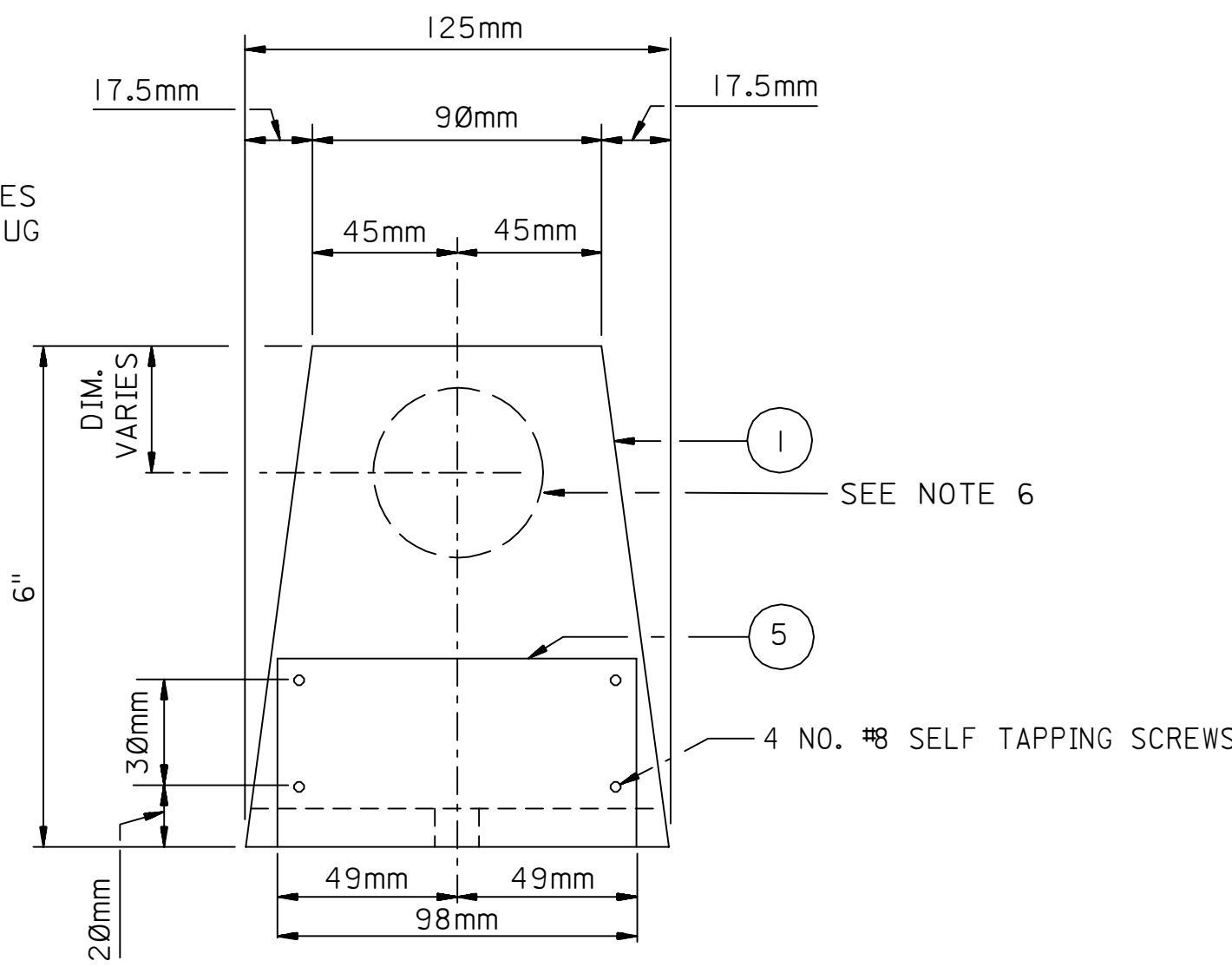
22	00	AA-036073	X	990
REV. NO.	SHT. NO.	DRAWING NUMBER	INDEX	PLANT NO.



WELLHEAD DETAIL
WITH & WITHOUT CELLAR
(SEE NOTE 5)

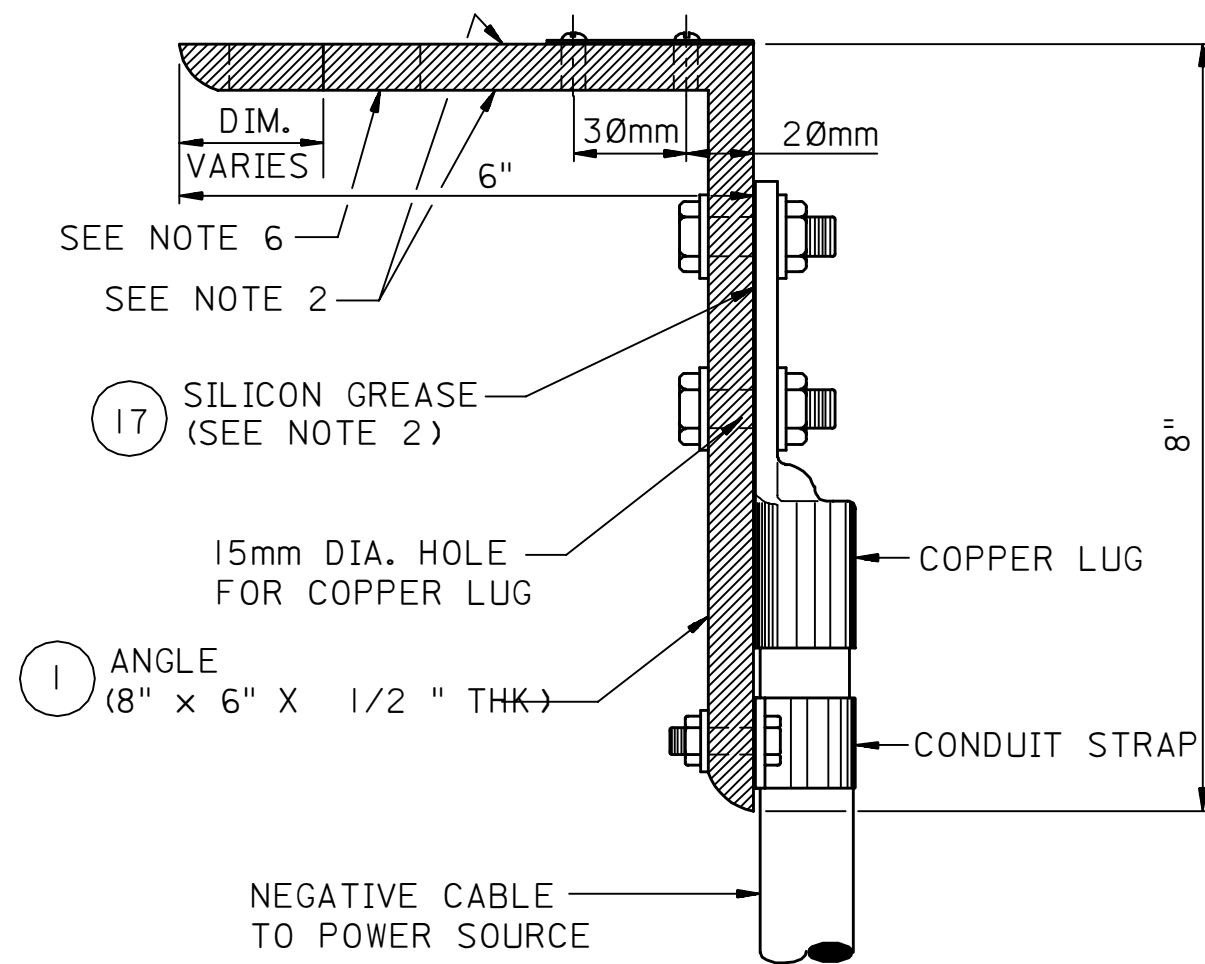


ISOMETRIC OF BRACKET

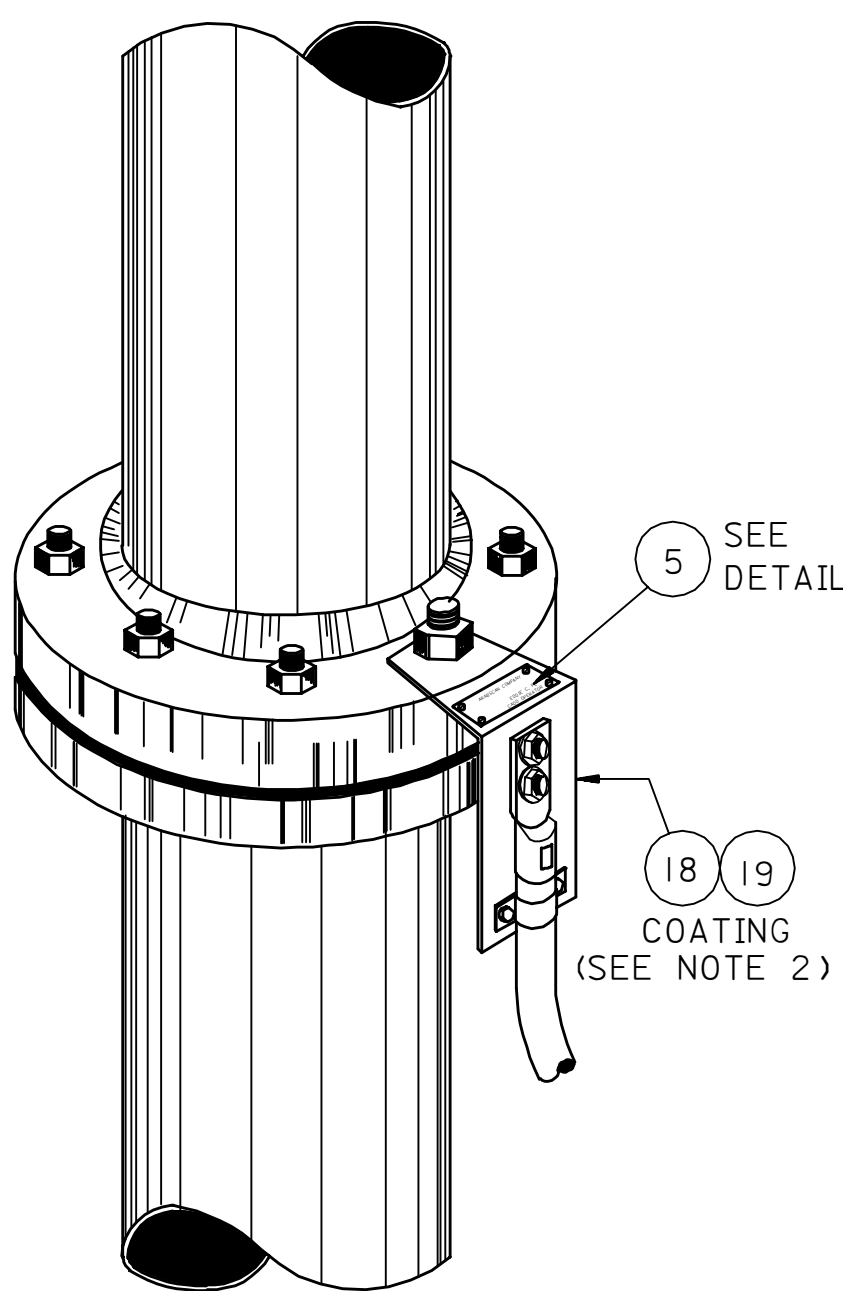


TOP VIEW OF BRACKET

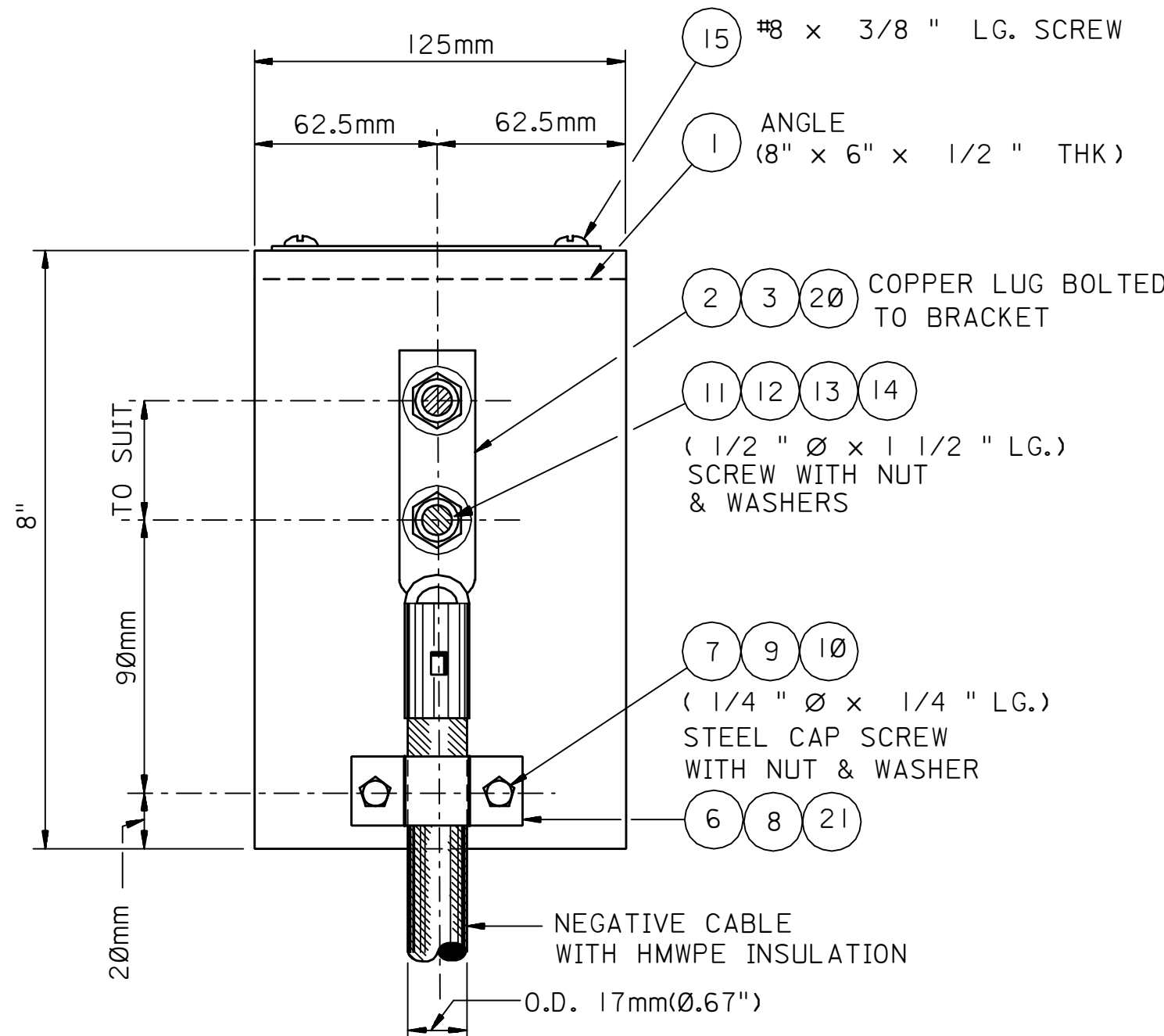
MATERIAL LIST			
CODE	SAMS NUMBER	UNIT	DESCRIPTION
1	12-413-259	FT	ANGLES: STRUCTURAL; 8" x 6" x 1/2 " THK.
2	14-198-136	EA	LUG: HYLUG COPPER; 2/0 AWG MAX.; YA 26-2LN BURNDY
3	14-198-156	EA	LUG: HYLUG COPPER; 350 MCM MAX.; YA 31-2LN BURNDY
4	12-335-412	FT	BAR: STEEL FLAT; 3/8 " TH. x 3" WD.
5	D/C	EA	WARNING TAG: 1/6" THK. x 2 1/4 " W x 4 1/4 " LG. ENGRAVED LAMINATED PLASTIC.
6	15-511-218	EA	STRAP: CONDUIT; 2 HOLE; 3/4 "
7	11-173-012	EA	SCREW: CAP; STEEL; CADMIUM PLATED 20 TH/IN; 1/4 " x 1 1/4 " LG.
8	15-511-223	EA	STRAP: CONDUIT; 2 HOLE, 1"
9	10-565-211	EA	NUT: HEX; STEEL; CADMIUM PLATED; 20 TH/IN; 1/4 "
10	10-887-832	EA	WASHER: ROUND; FLAT; STEEL; CADMIUM PLATED; 1/4 "
11	11-173-415	EA	SCREW: CAP; STEEL; CADMIUM PLATED, 13 TH/IN; 1/2 " x 1 1/2 " LG.
12	10-565-219	EA	NUT: HEX; STEEL; CADMIUM PLATED; 3 TH/IN; 1/2 "
13	10-887-848	EA	WASHER: ROUND; FLAT; STEEL; CADMIUM PLATED; 1/2 "
14	10-829-415	EA	LOCK WASHER: SPRING STEEL; CADMIUM PLATED; 1/2 "
15	11-777-989	PK	SCREW: # x 3/8 " LONG; STEEL, CADMIUM PLATED; SELF TAPPING
16	14-909-975	RO	TAPE: INSULATING; P/C; 1" WD. (36 YD/RO)
17	14-800-125	TU	GREASE: CONTACT LUBRICATION
18	09-708-133	CN	PRIMER: ZINC CHROMATE
19	09-686-354	CN	PAINT: EXTERIOR; INSUL. COATING FINISH
20	14-148-122	EA	LUG: HYLUG COPPER; #4 AWG MAX.; YA4C-2LN BURNDY
21	15-111-213	EA	STRAP: CONDUIT; 2 HOLE; 1/2 "



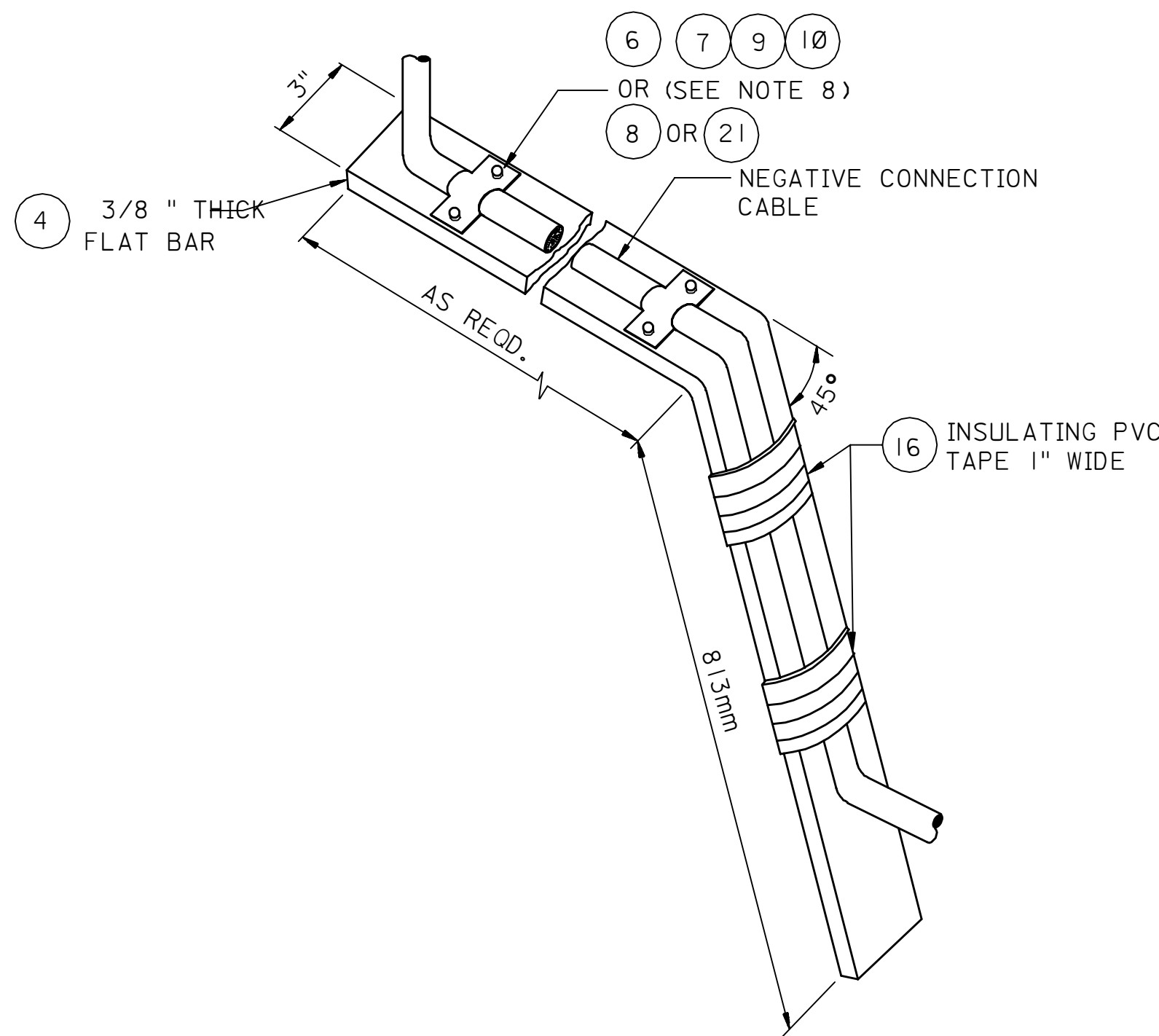
SIDE VIEW OF BRACKET



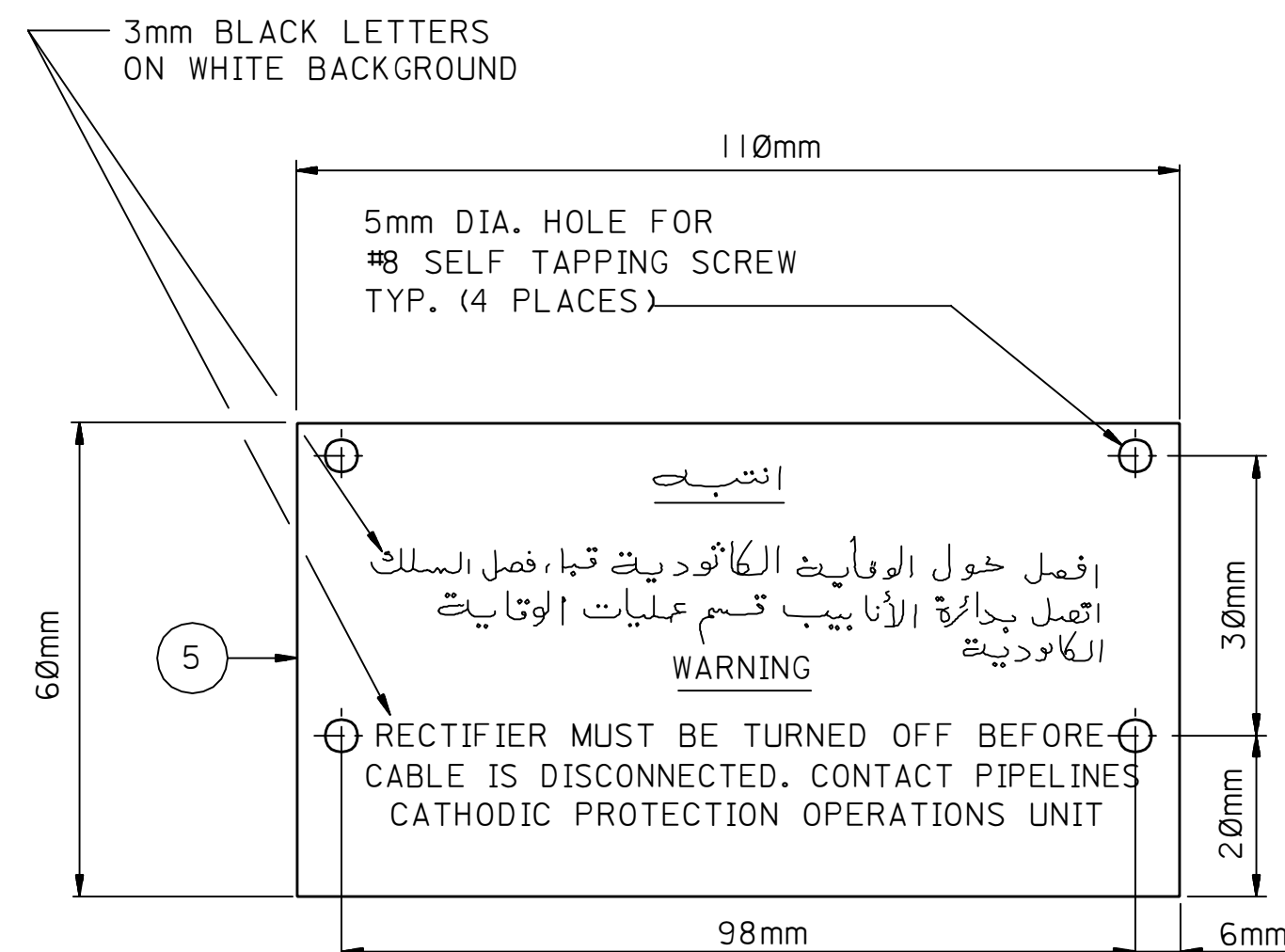
WELLHEAD CONNECTION DETAIL



CABLE & LUG CONNECTION
TO BRACKET



CELLAR CABLE SUPPORT
NOT TO SCALE



DETAIL OF WARNING TAG
NOT TO SCALE

- NOTES:
- 25mm² (#4 AWG) TO 70mm² (2/0 AWG) CABLE TO BE USED ON RECTIFIER ENERGIZED SYSTEMS AND 185mm² (350 MCM) CABLE TO BE USED FOR SOLAR ENERGIZED SYSTEMS.
 - THE LUG CONNECTION AREA AND THE INTERFACE SURFACE OF THE BRACKET AND FLANGE SHALL BE CLEANED TO BRIGHT METAL. MATING SURFACE SHALL BE COATED WITH CONTACT LUBRICATING GREASE BEFORE ASSEMBLY. ENTIRE BRACKET AND EXPOSED ADJACENT METAL COATINGS SHALL BE BRUSH APPLIED AS PER APCs-4 WITH ZINC CHROMATE PRIMER AND ALUMINUM ALKYD TOPCOAT AFTER ASSEMBLY BUT PRIOR TO INSTALLATION OF WARNING TAG.
 - STRIP CABLE INSULATION BACK SUFFICIENTLY TO PROVIDE ADEQUATE CONNECTION TO LUG. THOROUGHLY SCRATCH-BRUSH THE CONDUCTOR IMMEDIATELY PRIOR TO INSTALLATION OF THE CONNECTOR.
 - USE BURNDY DIE INDEX NO. 13 FOR 70mm² (2/0 AWG) CABLE, BURNDY DIE INDEX NO. 18 FOR 185mm² (350 MCM) AWG CABLE, AND BURNDY DIE INDEX NO. 8 FOR 25mm² (#4 AWG) CABLE.
 - CELLARS DO NOT EXIST AT ALL WELLHEADS.
 - CONTRACTOR TO DRILL HOLE TO SUIT CASING FLANGE BOLT SIZE.
 - CONTRACTOR TO SUPPLY NEW STUD IF NECESSARY TO ENSURE FULL THREAD ENGAGEMENT.
 - NUMBER OF CABLE STRAPS AS REQUIRED TO GIVE MAXIMUM SPACING OF 450mm.

REFERENCE DRAWINGS

INSTALLATION DETAILS DIRECT BURIED CABLE CATHODIC PROTECTION	AA-036675
MARKER PLATE DETAILS	AB-036351

MANDATORY DRAWING

02	AUG95	ESSD CAB	REVISED NOTES AND ADDED MATERIAL LIST ITEM NOS. 20 & 21.			
01	FEB93	ESSD MAQ	GENERAL REVISION	ORIGINAL SIGNED	ORIGINAL SIGNED	ORIGINAL SIGNED
REV. NO.	DATE	BY	DESCRIPTION	CHKD.	CERT.	APPD.

SAUDI ARABIAN OIL COMPANY

DRAWN BY EPE (ESSD) CHECKED BY _____ SCALE: _____ NONE
DATE STARTED 04-12-92 DATE COMPLETED 04-13-92
OPR'G. DEPT. _____ ENG. DEPT. _____
APPD. FOR CONST. _____

THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION OR FOR ORDERING MATERIAL UNTIL CERTIFIED AND DATED
CERTIFIED BY _____ DATE _____

CATHODIC PROTECTION
INSTALLATION DETAILS
CABLE CONNECTION TO WELLHEAD

PLANT NO.	INDEX	DRAWING NUMBER	SHT. NO.	REV. NO.
990	X	AA-036073	001	02