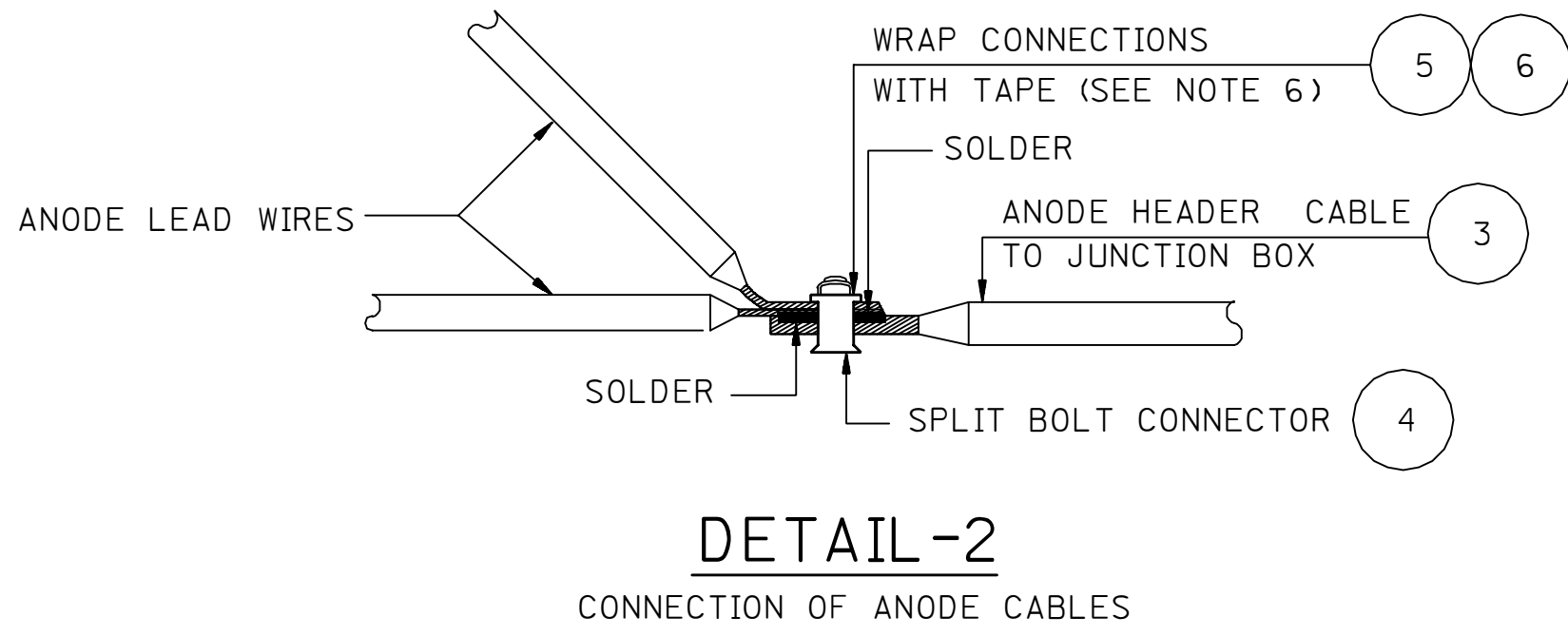
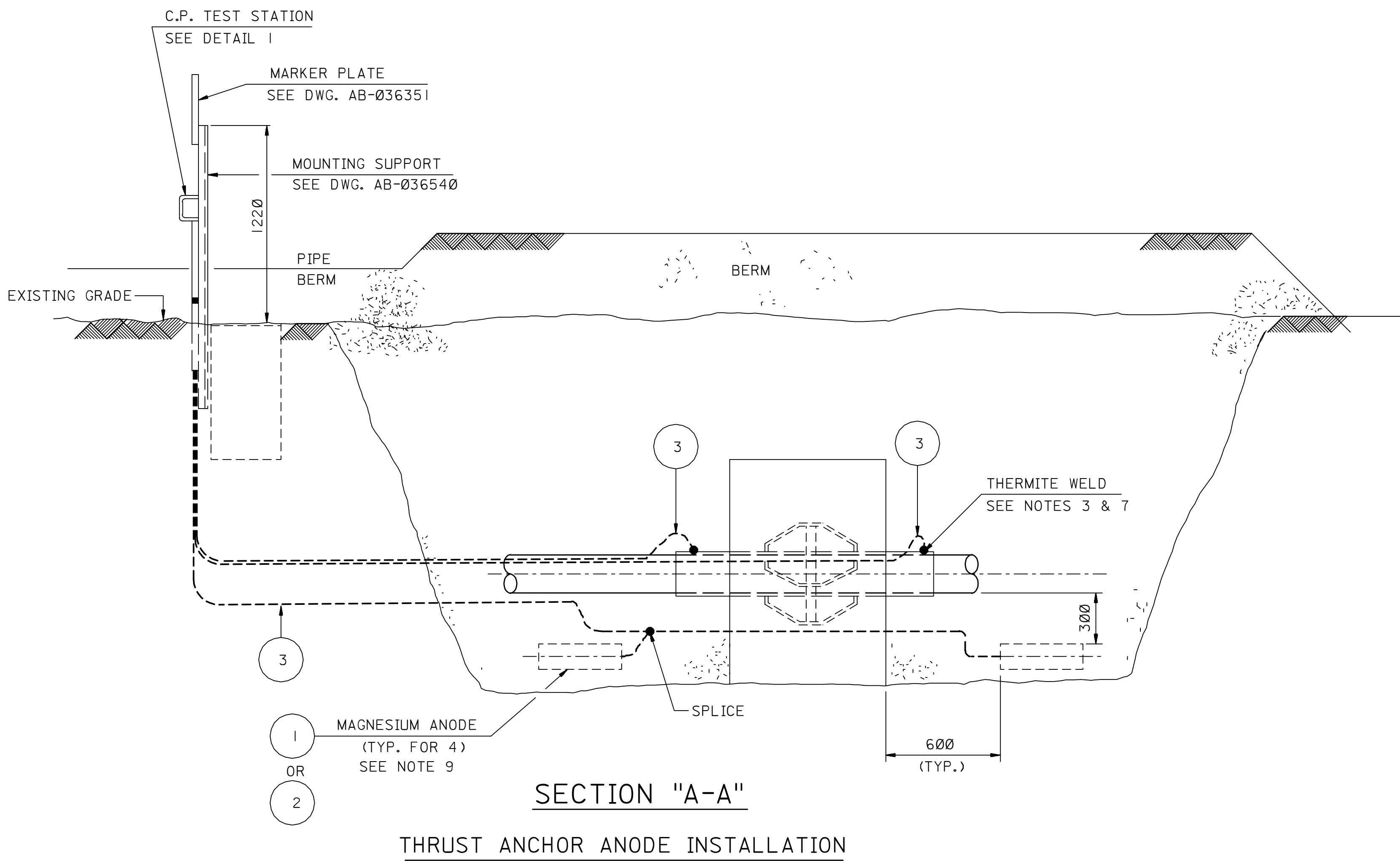
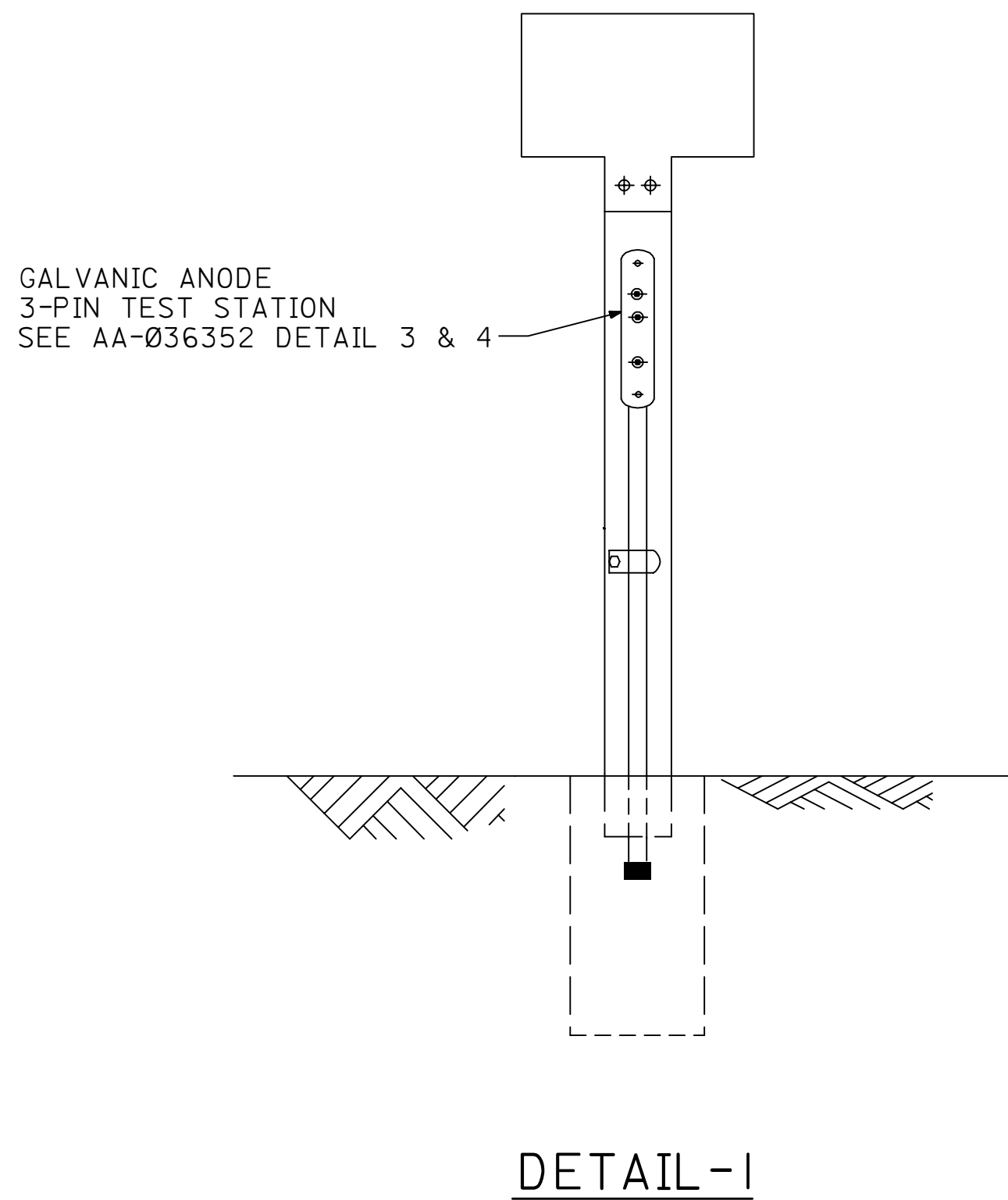
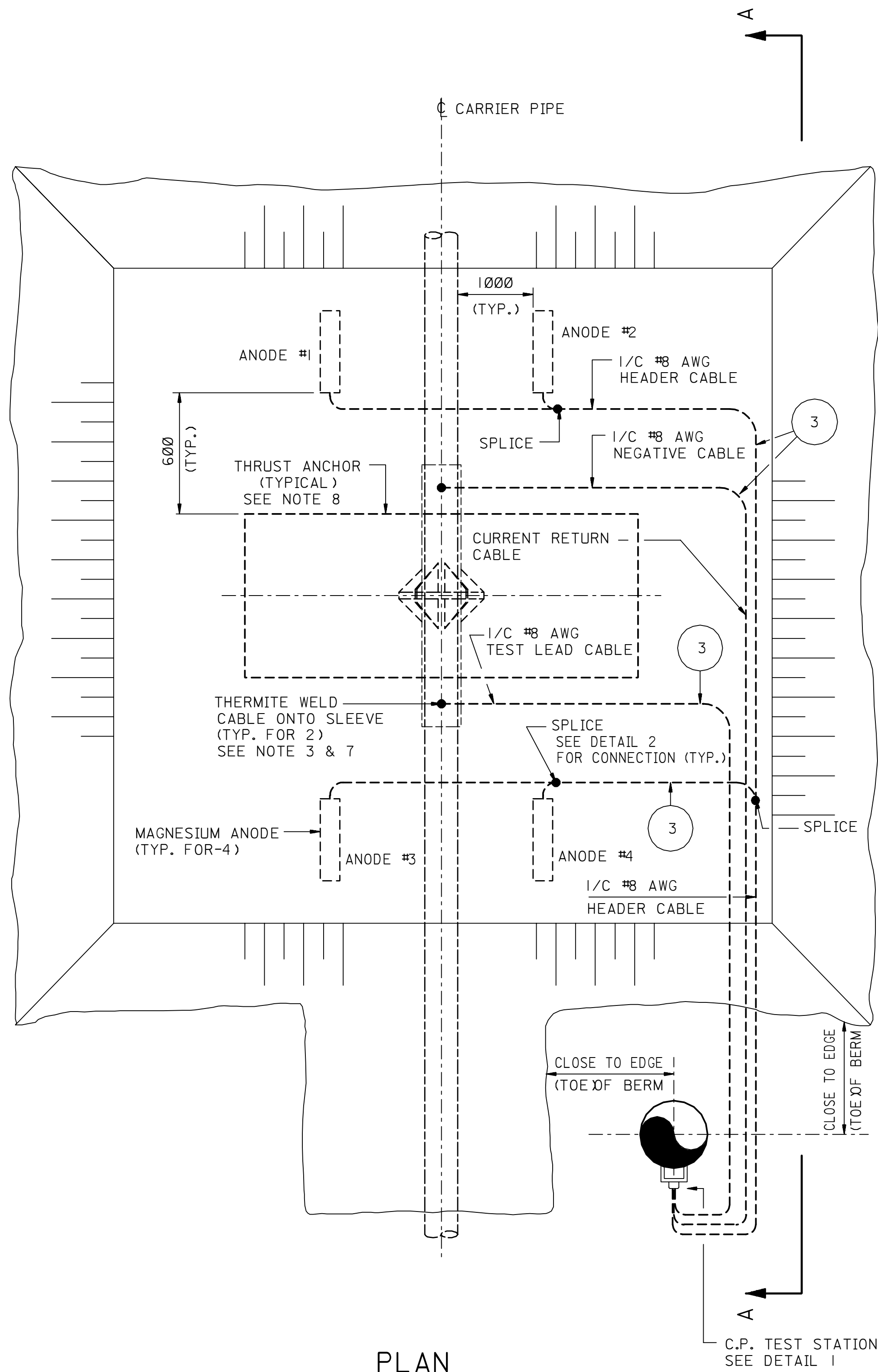




MATERIAL LIST		
CODE	SAMS NO.	DESCRIPTION
1	17-851-611	ANODE: MAGNESIUM; 60 LB; PREPACKAGED
2	17-851-681	ANODE: MAGNESIUM; 100 LB; BARE
3	15-111-101	CABLE: NO. 8 AWG
4	14-112-366	CONNECTOR: SPLIT BOLT
5	18-080-020	TAPE: RUBBER
6	18-079-940	TAPE, VINYL

- NOTES:
- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
 - ANODES MAY BE INSTALLED VERTICALLY OR HORIZONTALLY.
 - THERMITE WELDING OF CABLES SHALL BE IN ACCORDANCE WITH SAUDI ARAMCO STD. DWG. AB-036381.
 - INSTALLATION OF CATHODIC PROTECTION AT THRUST ANCHOR SHALL BE IN ACCORDANCE WITH SAES-X-400.
 - ALL GALVANIC ANODES TO BE THOROUGHLY SOAKED WITH WATER PRIOR TO AND DURING BACKFILLING.
 - AFTER SECURING ANODE LEAD WIRE TO HEADER CABLE WITH SPLIT BOLT CONNECTOR, AND SOLDERING WIRES, WRAP CONNECTION WITH 3 ONE HALF LAP LAYERS RUBBER TAPE, THEN 3 ONE HALF LAP LAYERS OF PLASTIC VINYL TAPE.
 - F, B, E. COATING REPAIRS AT THERMITE WELDS TO BE PER APC5-113.
 - DIMENSIONS OF ANODES FROM PIPELINE & THRUST ANCHOR ARE FOR ALL THRUST ANCHOR TYPES.
 - IN SUBKHA AREAS, ONLY BARE 100 LB. ANODE IS TO BE USED.

REFERENCE DRAWINGS	
THERMITE WELDING OF CABLES	AB-036381
CATHODIC PROTECTION MARKER PLATE DETAIL	AB-036351
CATHODIC PROTECTION MOUNTING SUPPORT DETAIL FOR JUNCTION BOX	AB-036540
DETAILS OF INST'N OF GALVANIC ANODES ROADS CAMEL PIPELINE CROSSING.	AA-036352
GALVANIC ANODE 3-PIN TEST STATION	AA-036157

MANDATORY DRAWING									
03	MAY98	DMC	ESSD	REVISED TO SHOW 3-PIN TEST STATION; ADDED MAT'L. LIST ITEM #2.					
02	AUG95	ESSD	RLO	REVISED NOTE-3 AND REFERENCE DRAWINGS					
01	NOV92	ESSD	MAQ	CORRECTED REFERENCE DWG. NO & ADDED DETAIL REFERENCE.					
REV. NO.	DATE	BY	JW/EDW	DESCRIPTION			CHKD.	CERT.	APPD.
SAUDI ARABIAN OIL COMPANY									
DRAWN BY: <u>EPE (ESSD)</u> CHECKED BY _____ SCALE: <u>NONE</u>									
DATE STARTED: <u>03-31-92</u> DATE COMPLETED <u>03-31-92</u>									
OPR'G. DEPT. _____ ENG. DEPT. _____									
APP'D. 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									
GALVANIC ANODES AT THRUST ANCHOR									
STD. DWG. _____ METRIC _____									
PLANT NO.	INDEX	DRAWING NUMBER				SHT. NO.	REV. NO.		
9900	X	AA-036069				001	03		