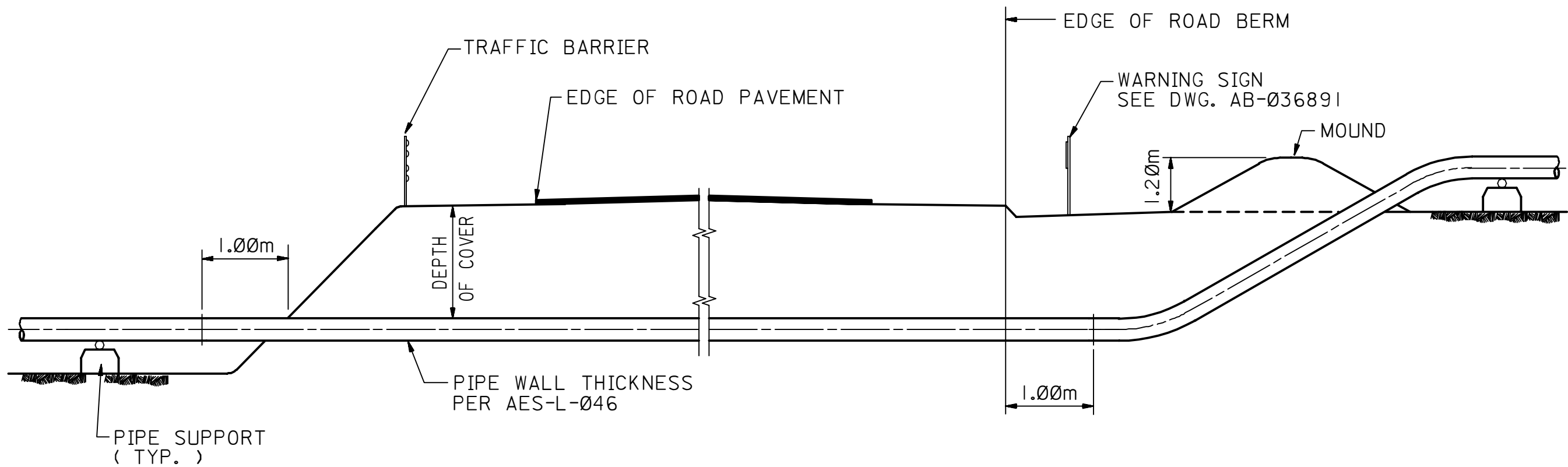
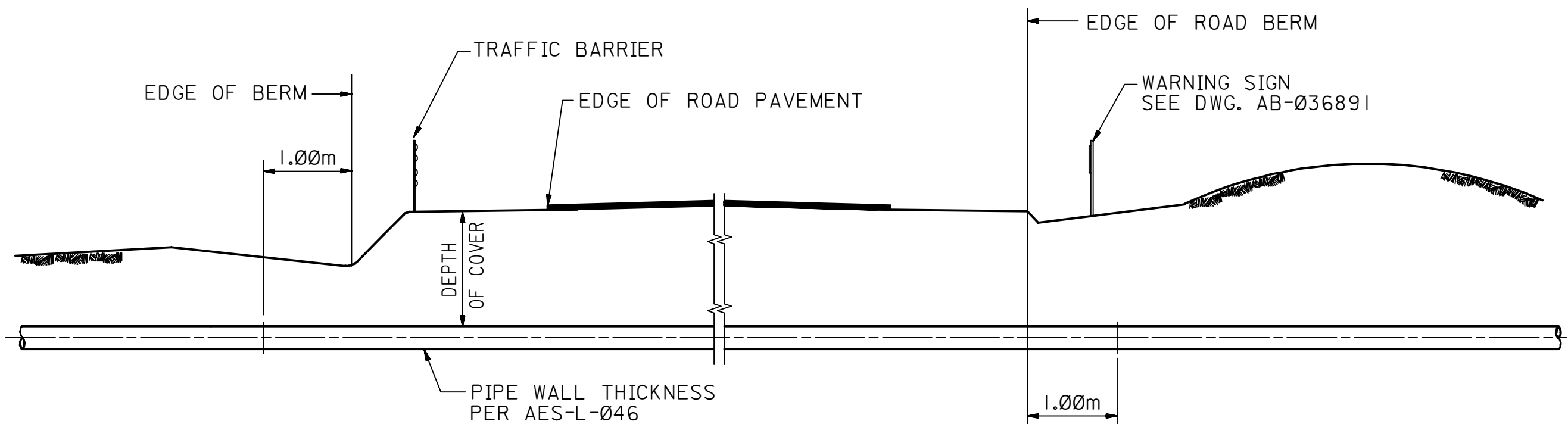


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PLANT NO.	INDEX	DRAWING NUMBER	SHT. NO.	REV. NO.



ELEVATION



ELEVATION

NON-SLEEVED ROAD CROSSING

NOTES:

1. THIS DRAWING ILLUSTRATES AN UNCASD CROSSING OF A PIPELINE UNDER A ROAD AND APPLIES TO BURIED OR ABOVE GRADE, RESTRAINED OR UNRESTRAINED LINES. THE DESIGN SHALL BE PER AES-L-046.
2. FOR BORED CROSSINGS, A MINIMUM OF TWO GALVANIC ANODES WITH A TWO-PIN GALVANIC ANODE JUNCTION BOX IS REQUIRED AT EACH SIDE OF THE CROSSING.
3. FOR OPEN CUT CROSSINGS, A MINIMUM OF TWO GALVANIC ANODES WITH A TWO-PIN GALVANIC ANODE JUNCTION BOX IS REQUIRED. ANODES TO BE INSTALLED ONE EACH SIDE OF PIPELINE IN CENTER OF ROAD BENEATH PAVING.
4. SEE SAUDI ARAMCO STANDARD DRAWING AA-036352 FOR GALVANIC ANODE INSTALLATION DETAILS.

REVISION NOTE:-

1. REDRAWN, REVISED, ADDED SH. 2,3 & 4, CHANGED TITLE BLOCK AND ADDED TYPICAL INSTALLATION NOTE.

TYPICAL INSTALLATION DRAWING

10	APR93	ESSD MAQ		ADDED NOTE 2, 3 AND 4			
09	09-19-88	RLO		SEE REVISION NOTE-1.			
REV. NO.	DATE	BY	JO/EWO	DESCRIPTION	CHKD.	CERT.	APPD.

SAUDI ARABIAN OIL COMPANY

DRAWN BY _____ CHECKED BY _____ SCALE NONE
DATE STARTED _____ DATE COMPLETED _____
OPR'G. DEPT. _____ ENG. DEPT. _____
APP'D FOR CONSTR. _____

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

CERTIFIED
BY _____ DATE _____

ROAD CROSSINGS
FOR PIPELINES

STD. DWG.				METRIC	
PLANT NO.	INDEX	DRAWING NUMBER		SHT. NO.	REV. NO.
990	L	AC-036660		001	10