

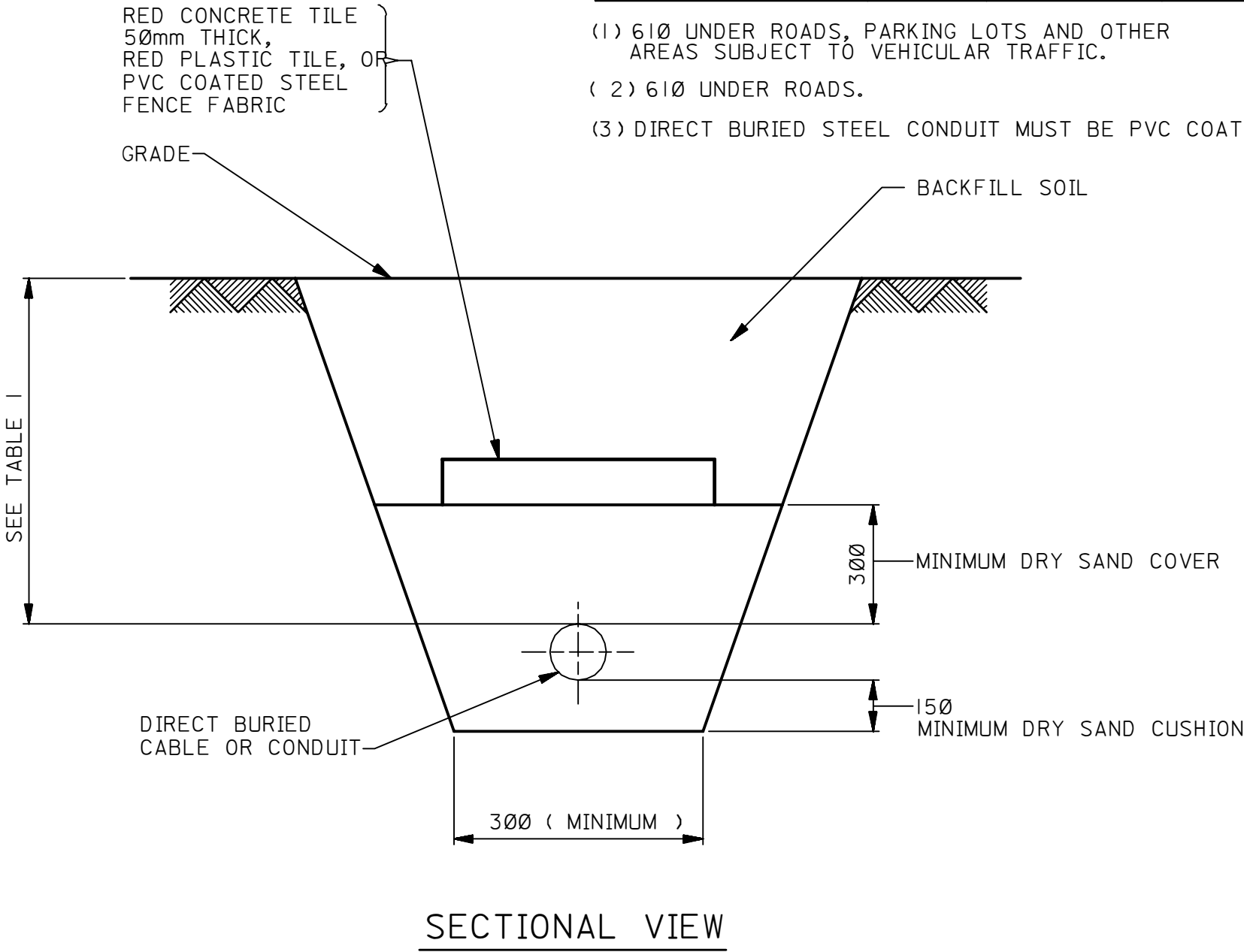
16	1001	AD-036874	P	990
PLANT NO.	INDEX	DRAWING NUMBER	SHEET NO.	REV. NO.

TABLE I
MINIMUM COVER REQUIREMENTS

(DEPTH OF BURIAL)
MILLIMETERS FROM GRADE LEVEL TO
THE TOP SURFACE OF CABLE OR CONDUIT

SYSTEM VOLTAGE	DIRECT BURIED CABLES	DIRECT BURIED PVC CONDUIT	DUCT BANK AND DIRECT BURIED RIGID STEEL CONDUIT (3)
600V AND BELOW	610	460 (1)	460 (2)
OVER 600V TO 35 KV	920	610	460 (2)
OVER 35 KV	1070	760	460 (2)

- (1) 610 UNDER ROADS, PARKING LOTS AND OTHER AREAS SUBJECT TO VEHICULAR TRAFFIC.
(2) 610 UNDER ROADS.
(3) DIRECT BURIED STEEL CONDUIT MUST BE PVC COATED.



NOTES:

1. REMOVE STONES AND RUBBLE FROM THE BOTTOM OF THE DITCH.
2. POUR A FIRST CUSHION OF AT LEAST 150mm OF DRY SAND FREE FROM STONES AND RUBBLE.
3. LAY CABLES OR INSTALL CONDUIT ON THE SAND CUSHION. THE CABLE OR CONDUIT MUST BE BURIED AT NO LESS THAN THE DEPTHS INDICATED IN TABLE I. SEE SAES-P-104 FOR EXCEPTIONS (REDUCED DEPTHS).
4. POUR A SECOND CUSHION OF 300mm OF CLEAN DRY SAND ABOVE THE CABLE OR CONDUIT.
5. PLACE A PROTECTIVE COVER OF RED CONCRETE TILES (SAMS NO. 09-259-471), RED PLASTIC TILES OR PVC COATED STEEL FENCE FABRIC ON TOP THE SECOND CUSHION OF SAND.
6. BACKFILL ABOVE THE CONCRETE OR PLASTIC TILES OR FENCE FABRIC COVER WITH THE SOIL FROM THE DITCH. STONES OR CINDER MUST NOT BE USED.
7. SEPARATION BETWEEN POWER CABLES AND OTHER CABLES MUST BE IN ACCORDANCE WITH SAES-P-104.
8. MINIMUM SEPARATION BETWEEN CABLES OPERATING AT 1,000V OR ABOVE (UNLESS ARMORED, TYPE MC, OR IN CONDUIT), AND CABLES OPERATING AT LESS THAN 1,000V, SHALL BE 300mm.
9. MARK THE CABLE ROUTE IN ACCORDANCE WITH STANDARD DRAWING AB-036326 OR AB-036273.
10. VALUES OF LINEAR DIMENSIONS ARE IN MILLIMETERS.

DRAWING RESPONSIBILITY :
ELECTRICAL STANDARDS COMMITTEE

16	MAY96	ESSD RLO	REVISED NOTES AND CHANGED "MANDATORY NOTE" TO DWG. RESPONSIBILITY NOTE.			
15	11-26-89	RLO	GENERAL REVISION.			
14	01-02-88	SAS	REDRAWN & ADDED MANDATORY NOTE			
REV. NO.	DATE	BY	DESCRIPTION	CH'K'D	CERT.	APP'D

SAUDI ARABIAN OIL COMPANY

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

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

CERTIFIED
DATE

INSTALLATION
DIRECT BURIED ELECTRIC
CABLE AND CONDUIT

STD. DWG. METRIC

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990	P	AD-036874	001	16