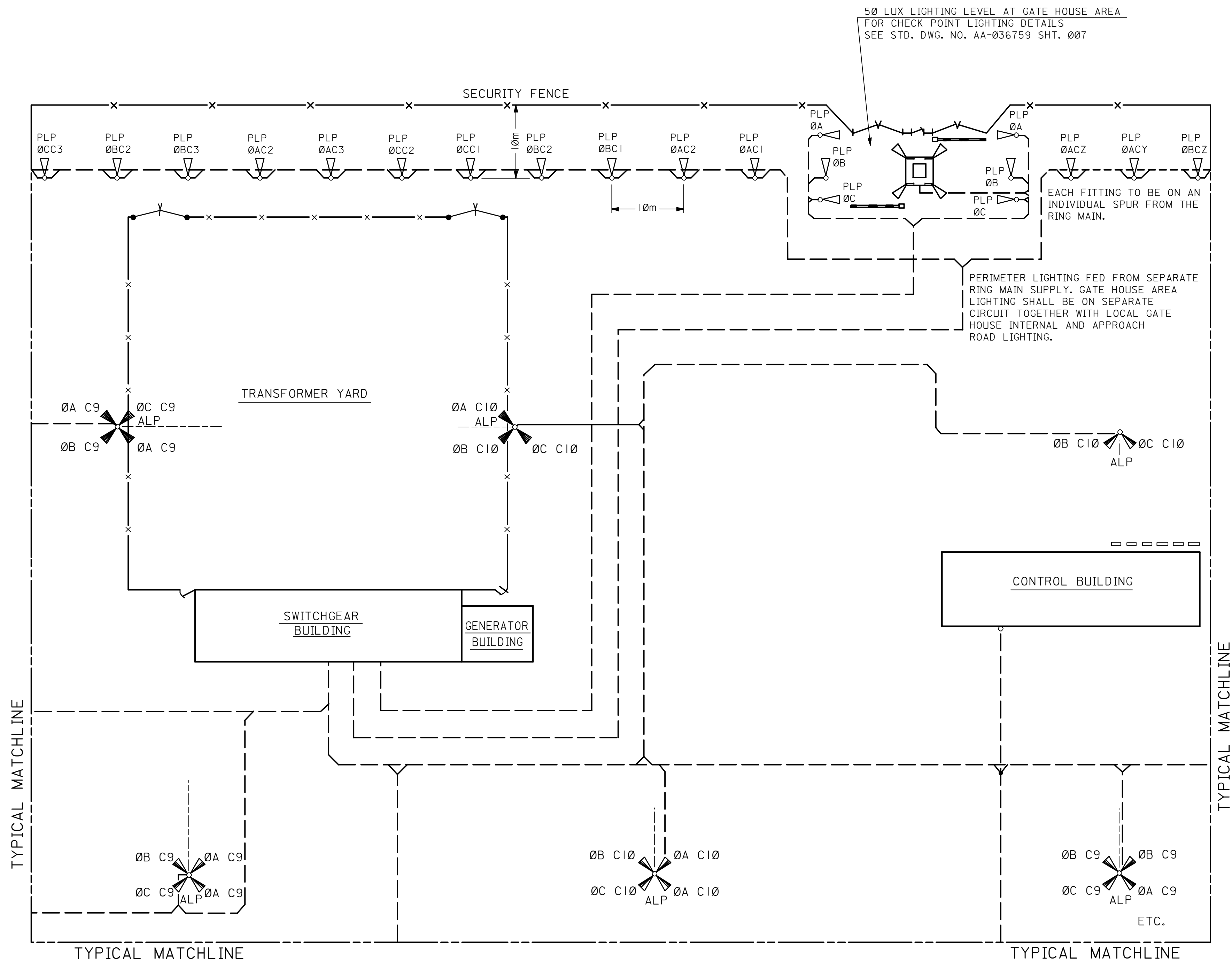


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NOTES:

1. LIGHTS ON PLP'S ARE TO BE MOUNTED 3m ABOVE GROUND LEVEL, 10m FROM FENCE AND 10m APART.
2. PLP'S ARE TO BE OF THE STANDARD SPUN ALUMINUM STREET LIGHTING TYPE PER SSD/13, SEE STD. DWG. P-AC-036745 SHT. 001 FOR TYPICAL DETAILS.
3. FUSES IN POLE BASES ARE REQUIRED FOR ALL TYPES OF POLES.
4. POWER SUPPLIES ILLUSTRATED IN THIS DRAWING ARE 480 VOLTS, 3-PHASE, 4-WIRE WITH LIGHTS CONNECTED PHASE TO NEUTRAL (277 VOLTS) HOWEVER, THE CHOICE OF VOLTAGE AND DISTRIBUTION SYSTEM FOR SECURITY LIGHTING INSTALLATIONS, SHALL BE PER SAES-P-123.
5. THE VOLTAGE DROP IN THE RING MAIN SHALL BE 1% AVERAGE WITH A MAXIMUM OF 2% TO THE MOST DISTANT FIXTURE, PROVIDING THAT THE VOLTAGE DROP ON THE MAIN, FEEDER, AND RING MAIN DOES NOT EXCEED 5%.
6. THE CABLE SYSTEM SHALL BE ARMORED CABLE, BURIED UNDERGROUND, RISING INSIDE THE POLES.
7. SECURITY PERIMETER AND AREA LIGHTING SHALL BE DESIGNED IN ACCORDANCE WITH SSD/13 AND SAES-0-113, SECURITY LIGHTING SYSTEMS.
8. THE POLE LENGTHS FOR AREA LIGHTING SHOWN ON THIS DRAWING ARE FOR ILLUSTRATION ONLY. THE MOUNTING HEIGHT SHALL BE DETERMINED BY THE LIGHTING REQUIREMENTS.

LEGEND

	ALP	UNDERGROUND CABLE RUN
	PLP	AREA LIGHTING POLE (≥10m≤30m)
	ALP	PERIMETER LIGHTING POLE
	ALP	AREA LIGHTING POLE (≥10m≤30m)
		PHASE A CONTACTOR Z

LUMINAIRE DETAILS

PERIMETER SECURITY FENCE LIGHTING:

NON-COASTAL AREAS
-400W HIGH PRESSURE SODIUM DISCHARGE LAMPS,
WITH A LIGHTING DESIGN MEAN LUMEN RATING OF
45000 LUMENS.

COASTAL AREAS
-LOW PRESSURE SODIUM DISCHARGE LAMPS OF
APPROXIMATE 140W (DEPENDING ON THE MANUFAC-
TURER) TO GIVE A MINIMUM LIGHTING MEAN LUMEN
RATING OF 20000 LUMENS.

AREA SECURITY LIGHTING:

THE MINIMUM AVERAGE LEVEL OF ILLUMINATION IN THE PRESCRIBED SECURITY AREA SHALL BE 30 LUX. IN AREAS NOT REQUIRING SECURITY LIGHTING, THE MINIMUM LEVELS SHALL BE PER SAES-P-123.

CHECKPOINT LIGHTING:

TO FACILITATE CHECKING OF PERSONNEL AND DOCUMENTS, THE MINIMUM AVERAGE LEVEL OF ILLUMINATION AT ENTRANCES AND AT GATEHOUSES SHALL BE 50 LUX ON THE GROUND.

REFERENCE DRAWING

ELEMENTARY DIAGRAM OF POWER AND CONTROL CIRCUIT FOR SECURITY LIGHTING PER SSD/13, AES-0-113	AB-036760 SH.002
GATE HOUSE: POWER, GROUNDING AND LIGHTING LAYOUT	AA-036759 SH.007

DRAWING RESPONSIBILITY:

ELECTRICAL STANDARDS COMMITTEE

02	DEC95	ESSD RCR		REVISED NOTES				
01	12-29-87	SAS		REDRAWN FOR CLARITY	ORIG. SIGNED	ORIG. SIGNED	ORIG. SIGNED	
REV. NO.	DATE	BY	JO/EWO	DESCRIPTION	CHKD.	CERT.	APPD.	

SAUDI ARABIAN OIL COMPANY

DRAWN BY PETR HR. CHECKED BY _____ SCALE _____
DATE STARTED _____ DATE COMPLETED MARCH 83
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 _____
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PERIMETER AND AREA LIGHTING

TYPICAL LAYOUT, PART OF

PLANT AREA (SSD/13.AES-0-113)

STD. DWG.	METRIC
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