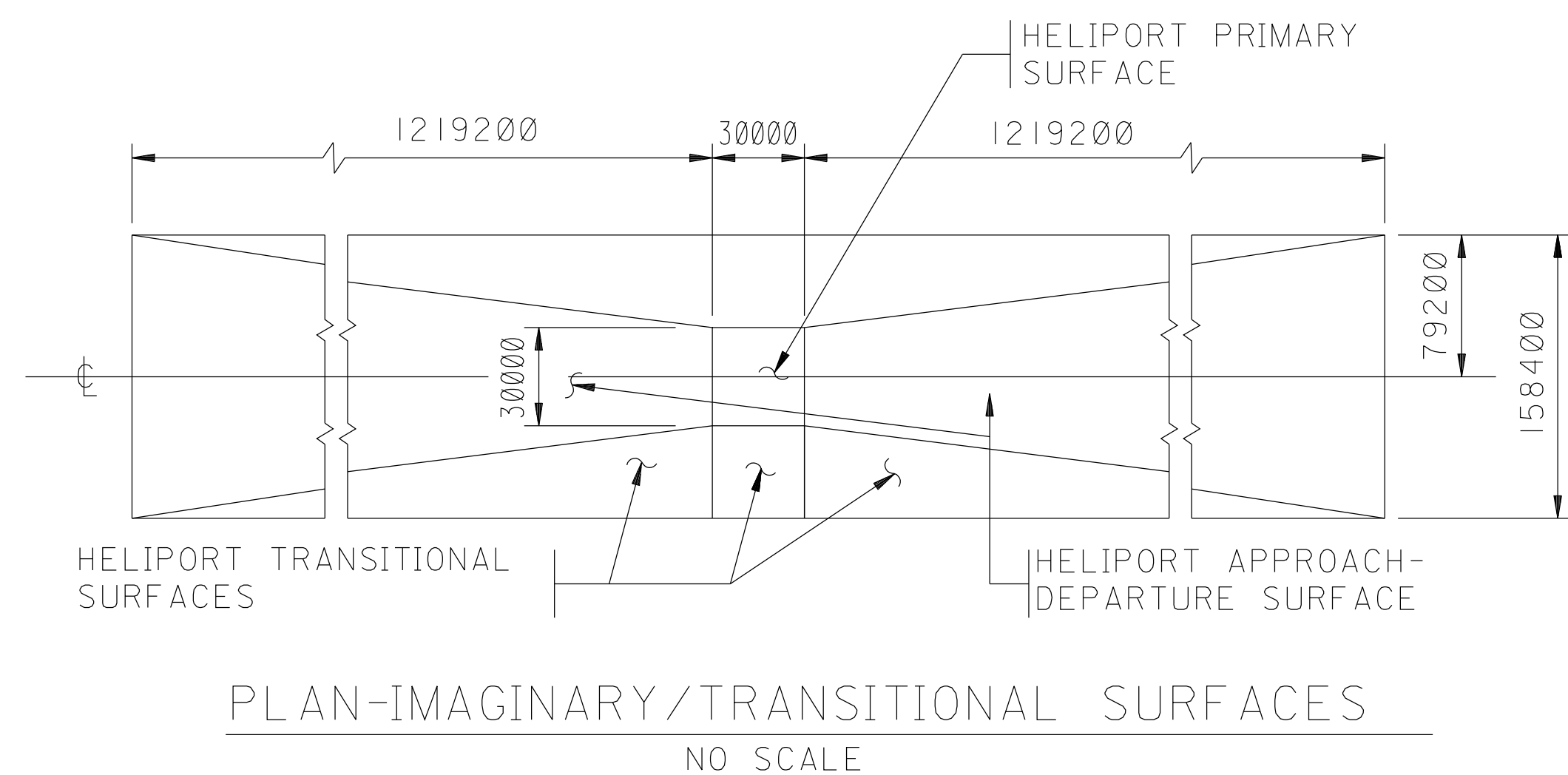
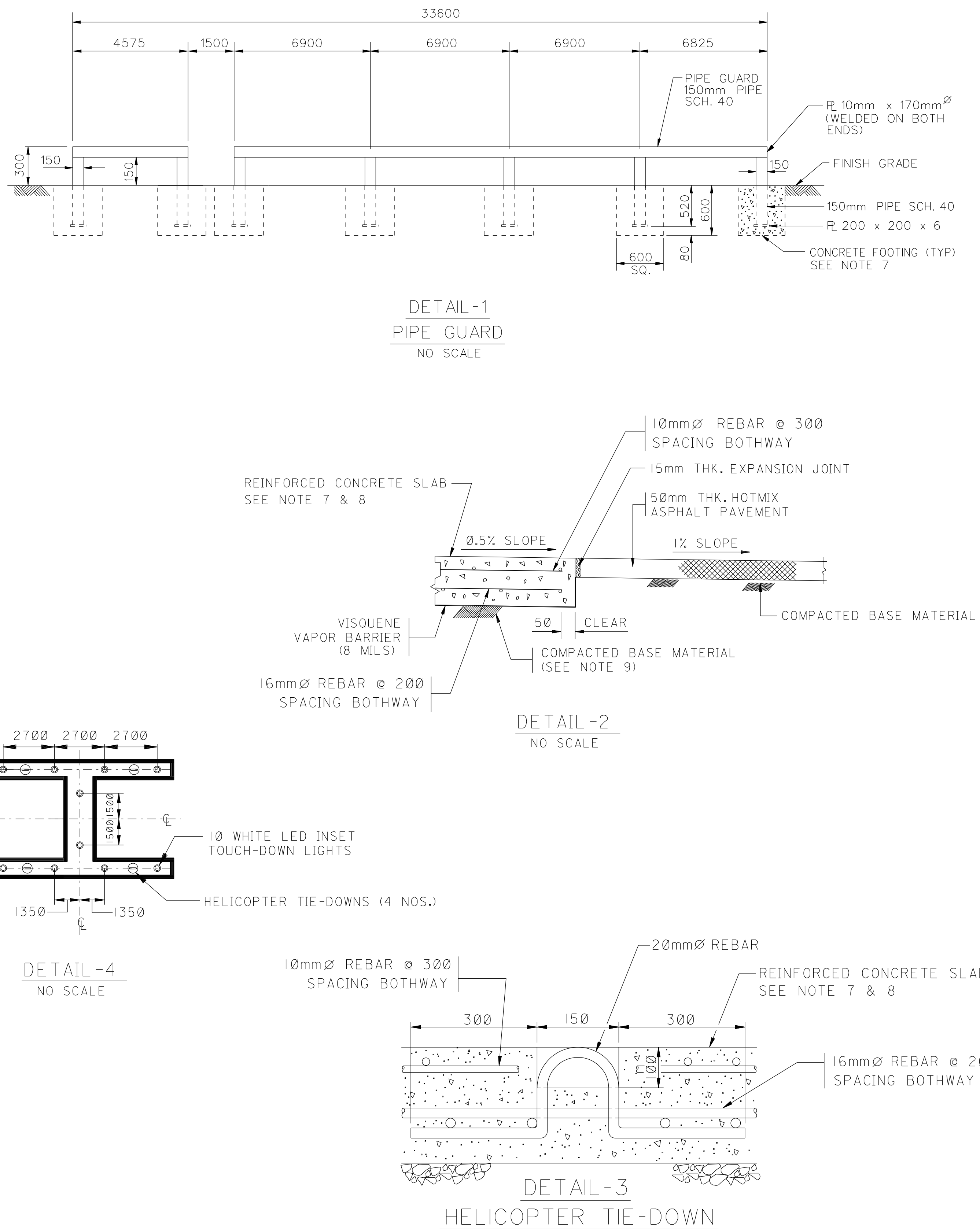
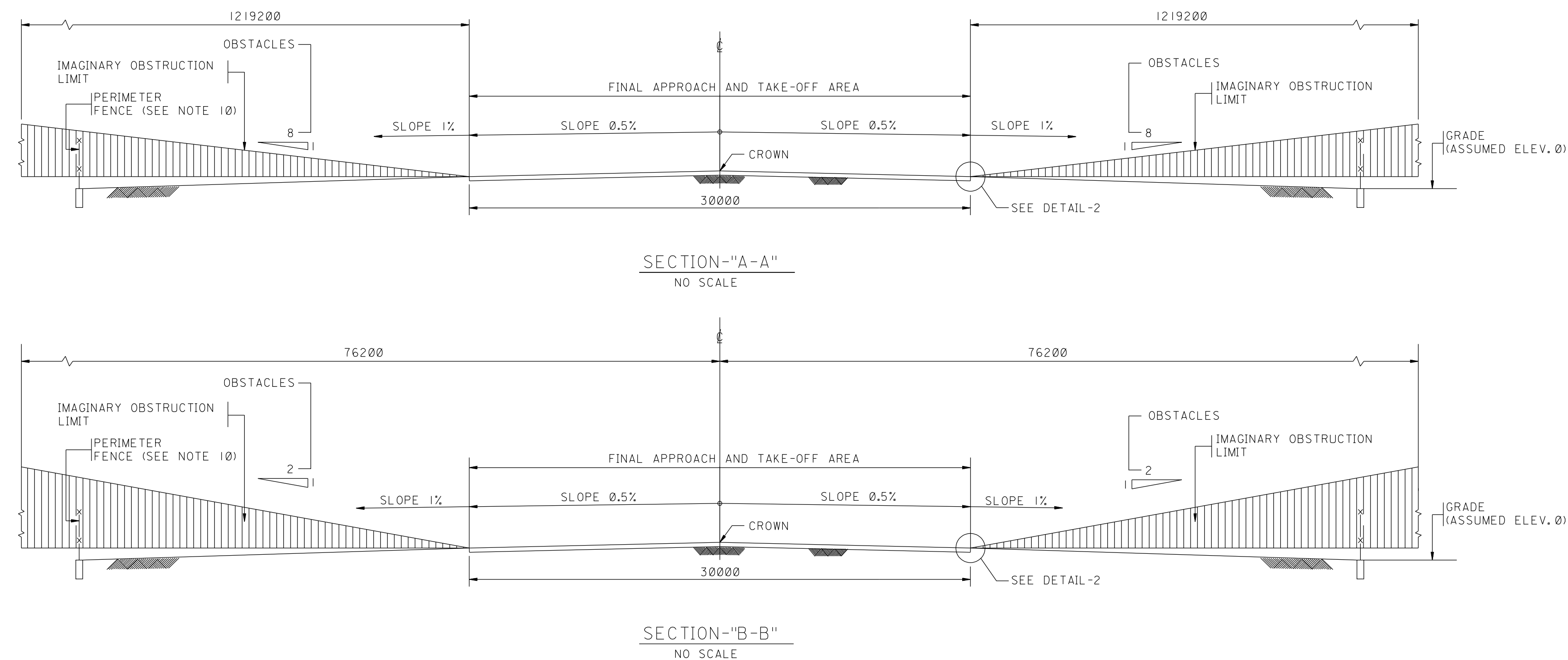
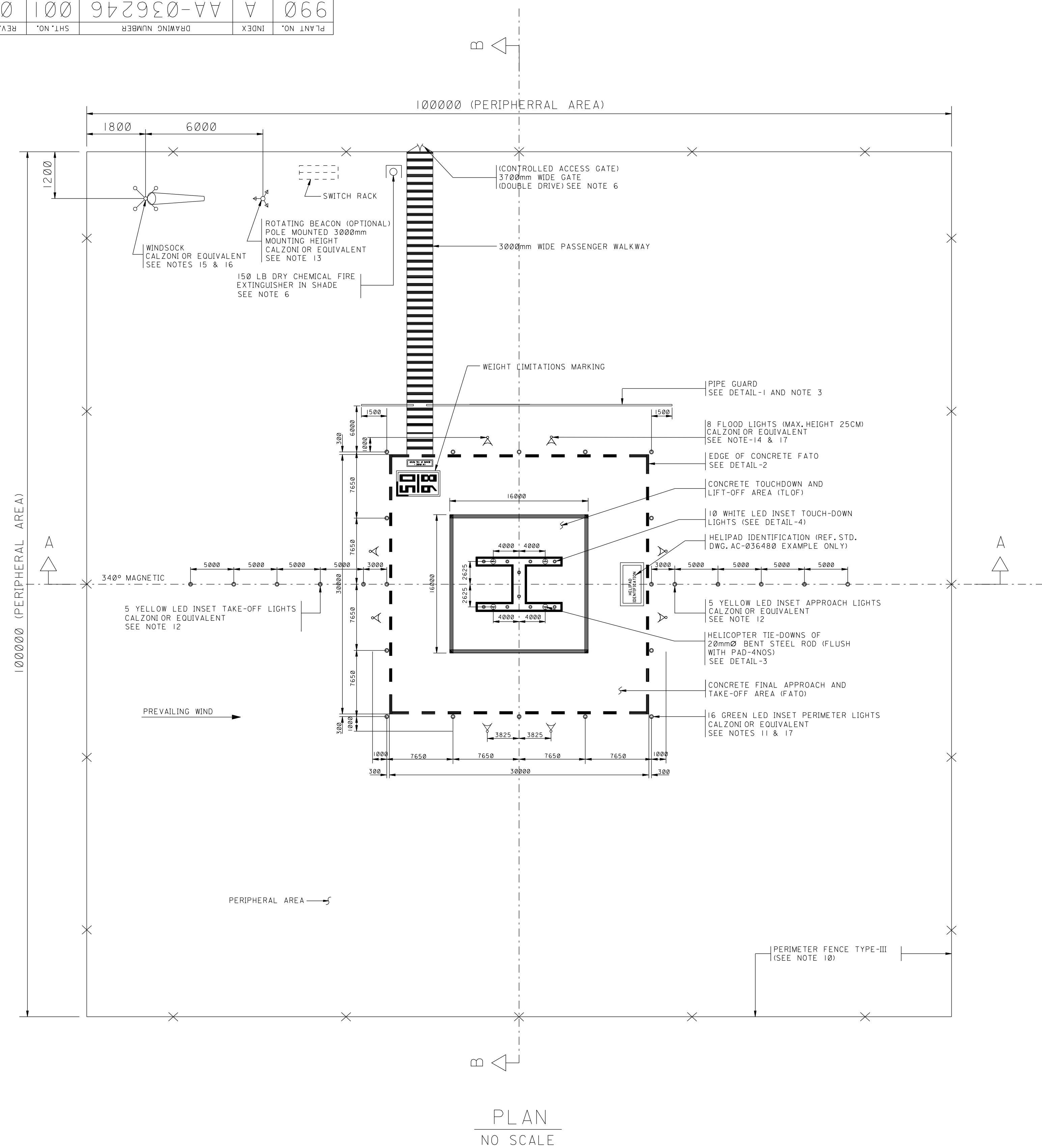


990	A	AA-036246	001	06
PLANT NO.	INDEX	DRAWING NUMBER	SHT. NO.	REV. NO.



- NOTES:**
1. THIS LAYOUT COMPLIES WITH THE "HELIPORT DESIGN GUIDE AC-150/5390-2B" OF THE FEDERAL AVIATION ADMINISTRATION (FAA) SPECIFICATION DATED SEPTEMBER 30, 2004 EXCEPT AS MODIFIED TO SUIT SAUDI ARAMCO OPERATING REQUIREMENTS.
 2. THE HELIPORT SHOULD BE PAINTED AS PER SAUDI ARAMCO STANDARD DRAWING AC-036480. REFER TO SAUDI ARAMCO PAINT STANDARD SAES-H-1 FOR MATERIALS AND APPLICATION PROCEDURE.
 3. PAINT PIPE GUARD ABOVE GRADE WITH TWO COATS OF PRIMER (ZINC CHROMATE) AND TWO COATS OF ENAMEL (YELLOW GLOSS) PER SAUDI ARAMCO PAINT SPECIFICATION SAES-H-1.
 4. PAVE THE AREA WITHIN THE FENCE WITH 50mm THICK ASPHALT.
 5. ASPHALT CONCRETE SHALL BE IN ACCORDANCE WITH SAES-0-006.
 6. THE PREFERABLE LOCATION OF A 3700mm WIDE GATE AND WHEELED FIRE EXTINGUISHER IS IN THE NORTHEAST CORNER OF THE FENCED AREA. CHANGES TO THIS LOCATION MUST BE APPROVED BY THE AVIATION DEPARTMENT.
 7. CONCRETE IS TO BE MIXED ACCORDING TO 09-SAMS-97 PLACED & CURED TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 28MPa AFTER 28 DAYS PER SAUDI ARAMCO STANDARD SAES-0-001. ALL EXPOSED CONCRETE SURFACES MUST HAVE A BROOM FINISH.
 8. THE CONCRETE SLAB JOINTS SHALL COMPLY WITH ACI 302.1R AND ACI 360R.
 9. THE SUBGRADE OF HELIPORT SITE MUST BE CHECKED FOR POSSIBLE WEAK BEARING MATERIALS. TOUCHDOWN AND LIFT-OFF AREA & FINAL APPROACH AND TAKE-OFF AREA MUST BE DESIGNED TO WITHSTAND THE AIRCRAFT LOAD UP TO 50000 LBS.
 10. THE HELIPAD SLAB BE SECURED WITH TYPE-III PERIMETER FENCE.(REFER SAUDI ARAMCO STD. DWG. AB-036677)EXCEPTION FOR FENCING REQUIREMENT MAY BE GRANTED BY AVIATION DEPARTMENT FOR HELIPORT WITHIN SECURED FACILITIES.
 11. PERIMETER LIGHTS ARE INSTALLED NOT MORE THAN 300mm INSIDE OR OUTSIDE THE TOUCHDOWN AND LIFT-OFF AREA (TLOF)/FINAL APPROACH AND TAKE-OFF AREA (FATO) PERIMETER.
 12. LANDING/DEPARTURE DIRECTION LIGHTS SHALL BE SPACED 5000mm APART AND LOCATED OUTBOARD OR INBOARD (OR BOTH) OF THE PERIMETER LIGHTS, AS SPACE PERMITS.
 13. INSTALL A ROTATING BEACON FOR NIGHT TIME IDENTIFICATION OF HELIPORT. BEACON MAY BE PLATFORM OR POLE MOUNTED, LOCATION AS DIRECTED BY THE AVIATION DEPARTMENT.
 14. FLOOD LIGHTS FOR NIGHT TIME OPERATIONS SHALL PROVIDE 32 LUX ILLUMINATION OVER THE ENTIRE TOUCHDOWN PAD. SHIELD THE LIGHTS TO PREVENT GLARE.
 15. A WINDSOCK SHOULD BE INSTALLED IN ACCORDANCE WITH REQUIRED OBSTRUCTION CLEARANCES AND ILLUMINATED WHERE NIGHT FLIGHTS ARE ANTICIPATED. (SEE DWG. NO. AA-036247)
 16. FOR REMOTE AREA HELIPADS WITHOUT POWER SUPPLY USE 2450mm WINDSOCK ON FRAME PER STD. DWG. AA-036247.
 17. LIGHTING SHALL BE RADIO CONTROLLED, WITH CAPABILITY OF MANUAL OVER-RIDE. SOLAR ACTIVATED, LIGHTING MAY BE ADEQUATE FOR SOME APPLICATIONS, WITH AVIATION DEPARTMENT APPROVAL, A CONSTANT CURRENT REGULATED ELECTRICAL SYSTEM SHALL BE INCORPORATED WITH 6.6 AMPERE LONG-LIFE (1000 NR) BULBS SPECIFIED.
 18. THE AVIATION DEPARTMENT RESERVES THE OPTION TO ADD OR DELETE FROM THE ABOVE REQUIREMENTS OR AS SHOWN IN THE DRAWING DETAILS.
 19. ALL NEW AVIATION FACILITY DESIGN AND ALL CHANGES, UPGRADES, MODIFICATIONS ETC. TO EXISTING FACILITIES SHALL BE REVIEWED WITH AVIATION TO ENSURE COMPLIANCE WITH LATEST STANDARDS.
 20. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.

REFERENCE DRAWINGS									
HELIPAD MARKING DETAILS ON-SHORE HELIPAD-PLAN						AC-036480			
WINDSOCK POLE ON-SHORE HELIPAD OR AIRSTRIP DETAILS-STRUCTURAL AND ELECTRICAL						AA-036247			
DWG. RESPONSIBILITY :									
CIVIL STANDARDS COMMITTEE									
06	MAR88	MSM			GENERAL REVISION.		A/JL	DMA	
05	JAN96	ESSD CAB			GENERAL REVISION.				
04	MAY92	ESSD FOR			DRAWING DIGITIZED INTO CADD DATABASE WITHOUT CHANGES				
REV. NO.	DATE	BY	JO/EWO		DESCRIPTION		CHKD.	CERT.	APPD.
SAUDI ARABIAN OIL COMPANY									
DRAWN BY THOMAS CHECKED BY A. J. LAMONTAGNE SCALE: NONE									
DATE STARTED _____ DATE COMPLETED _____									
DPR'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 _____			
PLAN, SECTIONS AND DETAILS ON-SHORE HELIPAD									
STD. DWG. METRIC									
PLANT NO.	INDEX	DRAWING NUMBER				SHT. NO.	REV. NO.		
990	A	AA-036246				001	06		