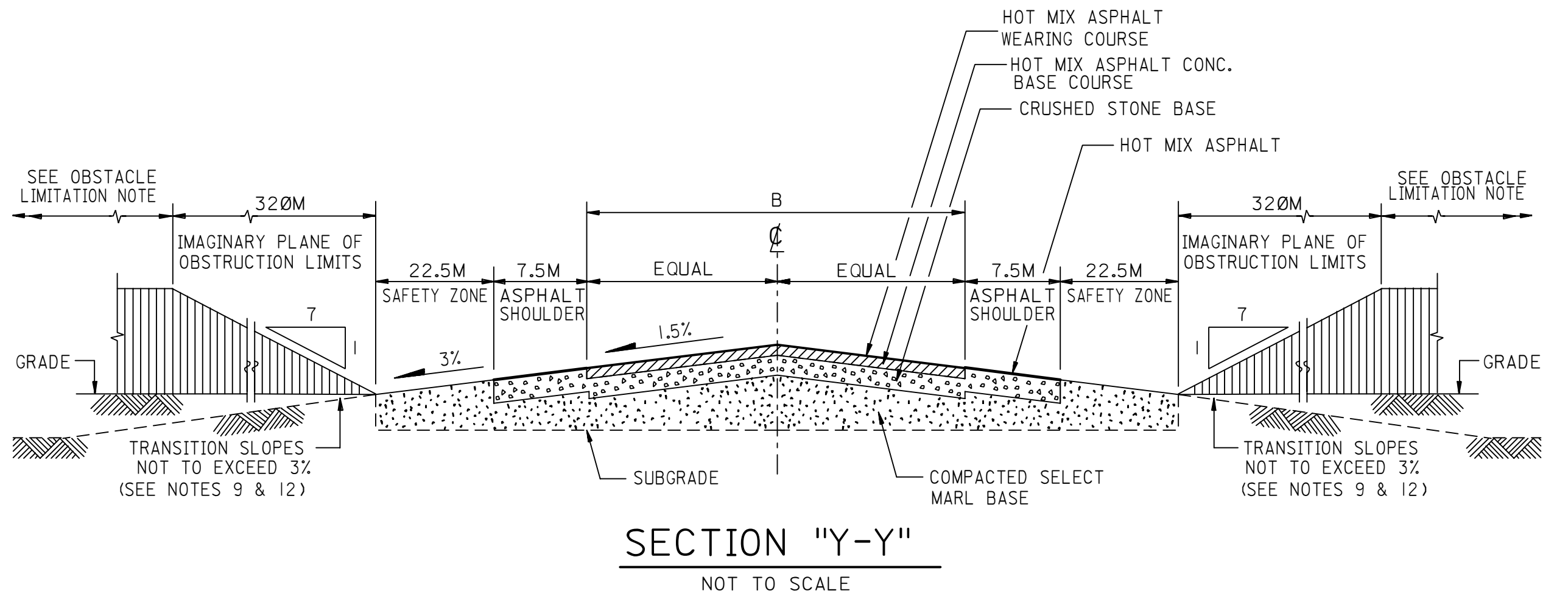
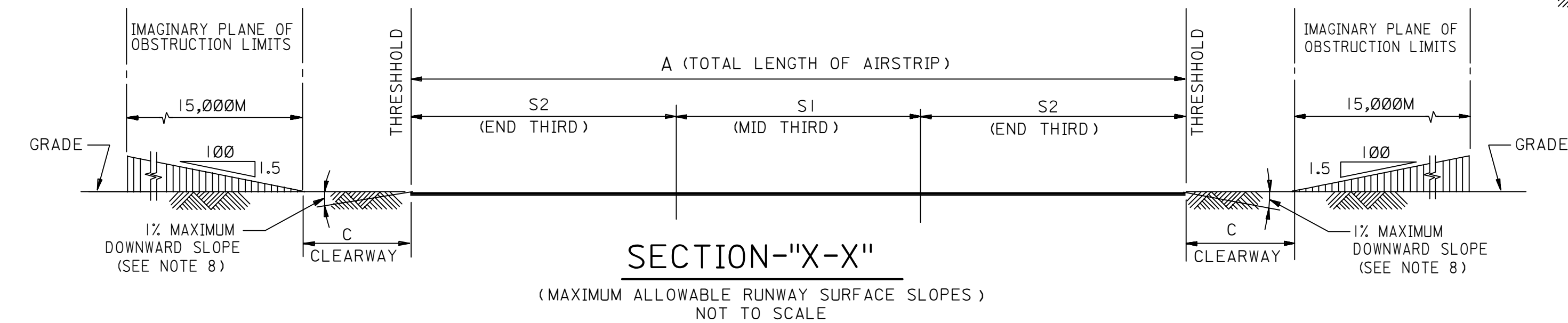
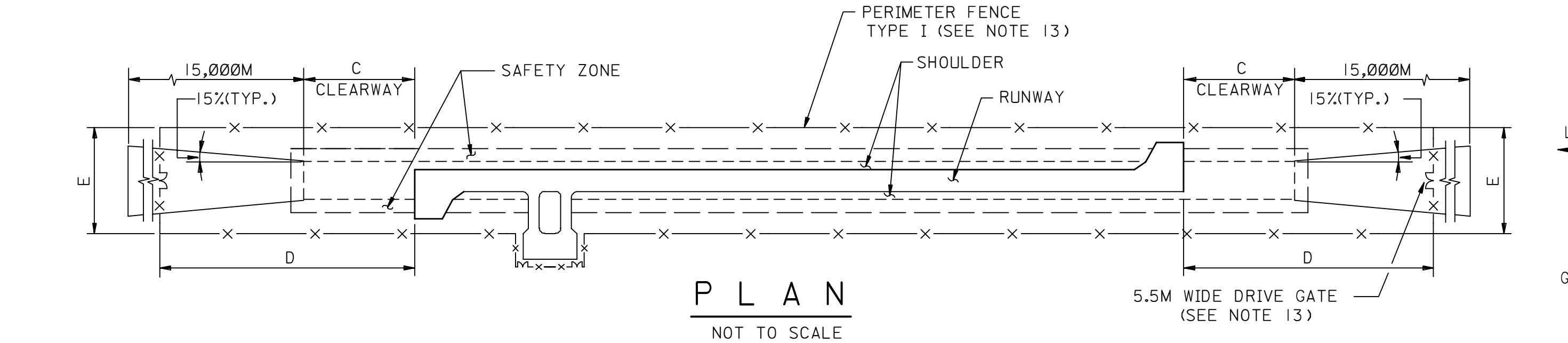
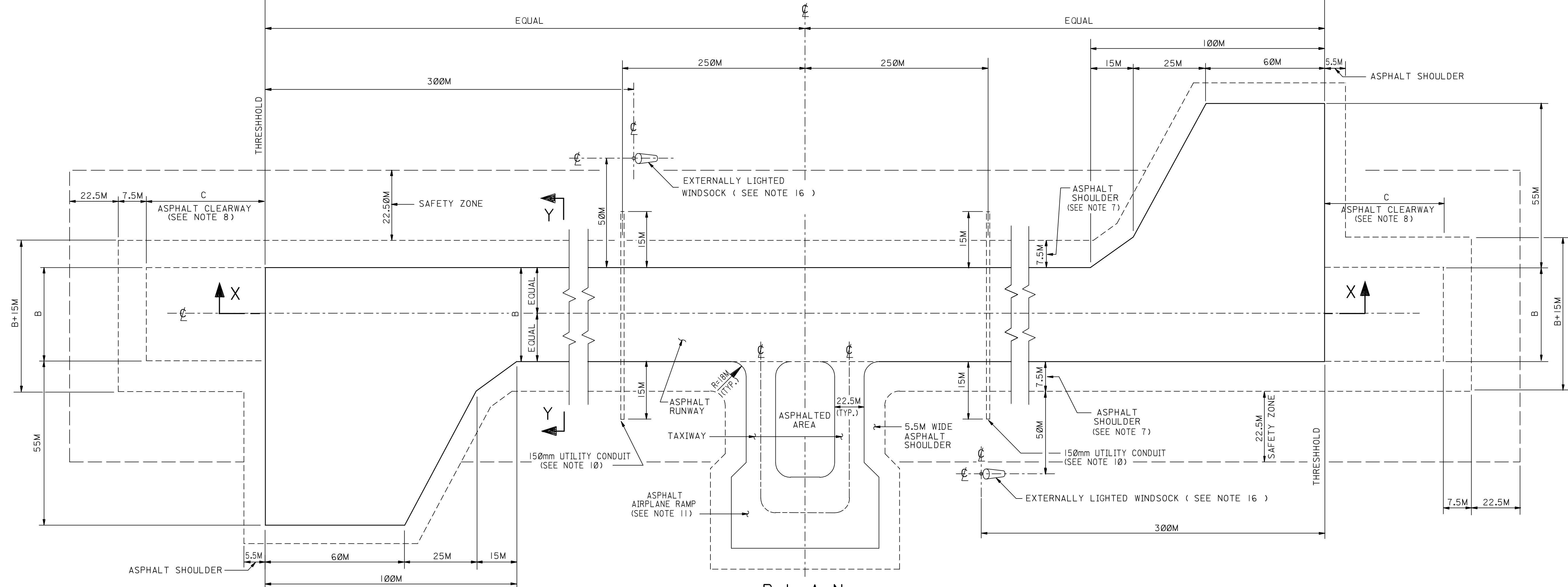




**OBSTACLE LIMITATION NOTE:**

OBSTACLE LIMITATION SURFACES AND RELATED CRITERIA SHOWN IN THIS STANDARD DRAWING ARE APPLICABLE TO THE AREA IN THE IMMEDIATE VICINITY OF THE AIRSTRIP. FOR OBSTACLE CLEARANCE LIMITS IN MORE DISTANT AREAS REFER TO THE LATEST ICAO PUBLICATION- AERODROMES, ANNEX 14. OBSTACLES WHICH MAY BE IN VIOLATION OF THE CRITERIA ON THIS STANDARD OR ICAO ANNEX 14 MUST BE COORDINATED WITH THE SAUDI ARAMCO AVIATION AND THE CONSULTING SERVICES DEPARTMENTS FOR REVIEW AND CONSIDERATION IN GRANTING A WAIVER FOR SUCH VIOLATION.

NOTES

1. AVIATION AND CONSULTING SERVICES DEPARTMENTS MUST APPROVE THE AIRSTRIP LOCATION AND DESIGN PACKAGE.
2. AVIATION DEPARTMENT IS THE PROPONENT FOR ALL AVIATION RELATED FACILITIES. AVIATION DEPARTMENT MUST INSPECT AND APPROVE AIRSTRIP AND RELATED FACILITIES BEFORE COMMISSIONING. (G1 1305.000)
3. RUNWAY LENGTH TO BE INCREASED AS NECESSARY TO COMPENSATE FOR ABNORMAL ELEVATIONS, SLOPES OBSTRUCTIONS OR PREVAILING WIND.
4. THE DETAILED DESIGN OF RUNWAY, TAXIWAY AND RAMP INCLUDING SELECT MARL FILL, CRUSHED STONE BASE AND ASPHALT PAVEMENT MUST BE REVIEWED AND APPROVED BY AVIATION DEPARTMENT.
5. MATERIAL AND CONSTRUCTION SPECIFICATIONS SHALL COMPLY WITH THE SAUDI ARAMCO ENGINEERING STANDARDS AND U.S. FEDERAL AVIATION ADMINISTRATION (FAA) ADVISORY CIRCULAR AC 150/5310-10A STANDARDS FOR CONSTRUCTION OF AIRPORTS AND AC 150/5320-6D AIRPORT PAVEMENT DESIGN AND EVALUATION.
6. THE LONGITUDINAL SLOPES ON THE RUNWAY SHOULD NOT EXCEED 1%. SLOPE CHANGES SHOULD BE GRADUAL AS PRACTICABLE AND ABRUPT CHANGES OR SUDDEN REVERSAL OF SLOPES AVOIDED. THE TRANSVERSE SLOPES SHALL BE 1.5 % ON EITHER SIDE OF THE RUNWAY CENTER LINE.
7. THE RUNWAY ASPHALT SHOULDERS SHALL BE CONSTRUCTED TO SUPPORT THE AIRCRAFT WITHOUT INDUCING STRUCTURAL DAMAGE. IN THE EVENT THE AIRCRAFT LEAVES THE RUNWAY SURFACE, SHOULDER MAINTENANCE IS REQUIRED ALSO FOR VEHICLE TRAFFIC.
8. CLEARWAYS AT BOTH ENDS OF RUNWAY MUST BE ASPHALTED. THE SLOPES OF THE CLEARWAY SHALL FOLLOW THE RUNWAY LONGITUDINAL AND TRANSVERSE SLOPES.
9. SAFETY ZONE AND TRANSITION SLOPES FROM THE EDGE OF SHOULDERS TO SURROUNDING TERRAIN SHALL NOT EXCEED 3%.
10. INSTALL 150mm UTILITY CONDUITS -2 NOS. 600mm BELOW GROUND SURFACE AS PER STANDARD DRAWING NO. AD-036874, UNDER THE RUNWAY AS SHOWN.
11. AIRPLANE RAMP, TERMINAL BUILDING AND GROUND SUPPORT EQUIPMENT (G.S.E.) SHELTER SHALL BE CONSTRUCTED AS PER SAUDI ARAMCO STANDARD DRAWING NO. AA-036784 AND AS DIRECTED BY AVIATION DEPARTMENT.
12. THE RUNWAY STRIP WIDTH 150M ON EACH SIDE OF THE RUNWAY CENTER LINE INCLUDES THE RUNWAY, SHOULDERS, 22.5M OF COMPACTED SAFETY ZONE AND TRANSITIONAL GRADED AREA. THE RUNWAY STRIP LENGTH SHOULD EXTEND 550M ON EACH SIDE BEYOND THE END OF RUNWAY.
13. THE RUNWAY STRIP AND RAMP AREA SHALL BE SECURED WITH TYPE I PERIMETER FENCE. TWO DRIVE GATES 5.5M WIDE SHALL BE INSTALLED AT EITHER END OF THE RUNWAY FOR EMERGENCY USE.
14. MARL SECURITY PATROL ROADS 6.5M WIDE SHALL BE CONSTRUCTED INSIDE AND OUTSIDE THE PERIMETER FENCE. THE SECURITY PATROL ROAD SHOULD BE 6-10 METERS CLEAR FROM THE FENCE.
15. THE AIRSTRIP MARKING WITH THERMOPLASTIC REFLECTIVE TRAFFIC PAINT SHALL BE AS PER STANDARD DRAWING NO. AA-036793.
16. AIRSTRIP LIGHTING, WINDSOCK AND VISUAL AIDS AS DELINEATED ON STANDARD DRAWING AA-036259 ARE TO BE INSTALLED AS DIRECTED BY AVIATION DEPARTMENT.
17. THE CROSS SECTION OF THE PAVEMENT SHALL BE DESIGNED FOR 737-700 BASED ON FAA AC 150/5320-6D WITH THE FOLLOWING MODIFICATIONS  
I-PAVEMENT COMPONENTS SHALL BE INCREASED BY 20%  
II-MAINTAIN UNIFORM THICKNESS FOR THE LAYERS OF THE PAVEMENT
18. ANY CHANGE OR DEVIATION TO THE STANDARD DRAWINGS AND SPECIFICATIONS MUST BE REVIEWED AND WAIVER APPROVED BY AVIATION, GSOD AND CONSULTING SERVICES DEPARTMENTS.

REFERENCE DRAWINGS

|                                                         |           |
|---------------------------------------------------------|-----------|
| AIRPLANE RAMP AND TAXIWAY PLAN, SECTION AND DETAIL      | AA-036784 |
| AIRSTRIP MARKING DETAIL                                 | AA-036793 |
| RUNWAY, CLEARWAY, TAXIWAY AND RAMP                      | AA-036793 |
| AIRSTRIP LIGHTING SYSTEM. LAYOUT                        | AA-036259 |
| WINDSOCK AND POLE DETAIL                                | AA-036247 |
| STRUCTURAL AND ELECTRICAL AIRSTRIP AND ON-SHORE HELIPAD | AA-036247 |
| INSTALLATION-DIRECT BURIED ELECTRIC CABLE AND CONDUIT.  | AD-036874 |

DWG. RESPONSIBILITY :  
CIVIL STANDARDS COMMITTEE

|          |         |     |                      |       |       |       |
|----------|---------|-----|----------------------|-------|-------|-------|
| 6        | 9/12/5  | MSM | GENERAL REVISION.    | TPM   | SMN   | MHM   |
| 5        | JULY 96 | CAB | GENERAL REVISION.    |       |       |       |
| 4        | 6.24.85 | LML | REDRAWN FOR CLARITY. |       |       |       |
| REV. NO. | DATE    | BY  | DESCRIPTION          | CHK'D | CERT. | APP'D |

SAUDI ARABIAN OIL COMPANY

DRAWN BY: E.D. CHECKED BY: SABRI NOOR. SCALE AS NOTED

DATE STARTED JAN 9, 1982 DATE COMPLETED FEB 20, 1982

OPR/G DEPT. ENG. DEPT

FIRE & SAFETY

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

CERTIFIED DATE

PERMANENT AIRSTRIP

PLAN, SECTIONS & DETAIL

STD. DWG. SAUDI ARABIA

PLANT NO. INDEX DRAWING NO. SHEET NO. REV. NO.

990 A AA-036257 001 06

CAD 09/01/83

PERMANENT AIRSTRIP REQUIREMENTS

| AIRPLANE TYPES                         | PREFERRED ALIGNMENT (MAG) | DIMENSION |       |       |       |       | MAX. SLOPE-% |              | SURFACE INCLUDING PARKING RAMP | AIRSTRIP AND AIRPLANE RAMP LIGHTS | RAIL & REILS | PAPI | AIRPLANE RAMP | VEHICLE PARKING AREA | AIRSTRIP WIDTH (m) | TRANSITION WIDTH MINIMUM (m) | TERMINAL BLDG. | G.S.E. SHELTER |
|----------------------------------------|---------------------------|-----------|-------|-------|-------|-------|--------------|--------------|--------------------------------|-----------------------------------|--------------|------|---------------|----------------------|--------------------|------------------------------|----------------|----------------|
|                                        |                           | A (M)     | B (M) | C (M) | D (M) | E (M) | S1 OR S2     | SLOPE CHANGE |                                |                                   |              |      |               |                      |                    |                              |                |                |
| DHC-6<br>CII<br>GIV<br>B-737<br>DASH-8 | 160-340                   | 2440      | 30    | 150   | 550   | 300   | 1.00         | 1.5          | ASPHALT CONCRETE SURFACE       | YES                               | YES          | YES  | YES           | YES                  | 300                | 105                          | YES            | YES            |