

MATCH LINE STA. 24-00

EAST THRESHOLD LIGHTING (285 FT.)

REFER TO RFI # 906  
+ RFI # 907 TUNNEL  
ELECTRICAL / COMMUNICATIONS

REFER RFI # 190 + #191

REFER TO RFI # 907  
FINAL COMMUNICATION  
ELECTRICAL DESIGN

- STA. 24-00
- STA. 24-07.5
- STA. 24-16.5
- STA. 24-25.5
- STA. 24-34.5
- STA. 24-43.5
- STA. 24-52.5
- STA. 24-61.5
- STA. 24-70.5
- STA. 24-79.5
- STA. 25-00
- STA. 25-06.5
- STA. 25-15.5
- STA. 25-24.5
- STA. 25-33.5
- STA. 25-42.5
- STA. 25-51.5
- STA. 25-60.5
- STA. 25-69.5
- STA. 25-78.5
- STA. 25-87.5
- STA. 26-00
- STA. 26-05.5
- STA. 26-14.5
- STA. 26-23
- (END TUNNEL) STA. 26-25

2  
E164  
(EAST SUMP PIT)

1 TUNNEL LIGHTING PLAN  
E156 SCALE: 1" = 50'

GENERAL NOTES:

- A. FIXTURES SHALL BE LOCATED AT STATIONS AS SHOWN UNLESS INDICATED OTHERWISE. IN GENERAL, FIXTURE SPACING BEGINS AT BOTH THE WEST AND EAST PORTALS AND PROGRESSES TOWARDS THE TUNNEL MIDPOINT. CIRCUITING NOT INDICATED ON THIS PLAN FOR CLARITY; REFERENCE DETAIL 1/E165, "TYPICAL TUNNEL LIGHTING PLAN" FOR TYPICAL CIRCUIT.
- B. REFERENCE DETAIL 2/E166, "TYPICAL TUNNEL CONDUIT SYSTEM DETAIL" FOR GENERAL CONDUIT ROUTING INFORMATION.
- C. BRANCH CIRCUITS SERVING BOTH 480 VOLT, SINGLE-PHASE LIGHTING FIXTURES AND 277 VOLT, SINGLE-PHASE LIGHTING FIXTURES SHALL BE PROVIDED WITH NEUTRAL CONDUCTOR(S).
- D. TUNNEL LIGHTING IS REDUCED DURING NIGHT-TIME HOURS BY SWITCHING-OFF FEEDERS SERVING PANELBOARD FOR SELECTED FIXTURES. PROVIDE CONTACTOR CONTROLLED BY PHOTO-ELECTRIC CELL FOR EACH PANELBOARD INDICATED; SEE DETAIL 1/E161 AND 4/E167 FOR FURTHER INFORMATION.

KEY NOTES:

- 1 48"W x 48"H x 12"D NEMA 3R LOCKABLE ENCLOSURE WITH INTERIOR BACK PLATE MOUNTED AT STA. 26-15, 6'-0" AFF. LABEL ENCLOSURE AS "EAST" ENTRANCE SECURITY CABINET" AND PROVIDE THE FOLLOWING:
  - 1. (1) 4" CONDUIT WITH (4) 1/2" INNER-DUCTS WITH PULL STRINGS TO EAST ELECTRICAL NICHE SECURITY CABINET. REF. SHEET E160 KEY NOTE #11.
  - 2. (1) 1" CONDUIT WITH PULL STRING TO SECURITY CAMERA LOCATION. EXTEND CONDUIT TO ADDITIONAL CAMERA AS REQUIRED BY SECURITY CONSULTANT. PROVIDE J-BOXES AS REQUIRED.
  - 3. (2) 4" CONCRETE ENCASED CONDUITS UNDERGROUND ALONG SOUTH SIDE OF KELLER SPRINGS RD. TO TU ELECTRIC UTILITY POLE LOCATED ON THE SOUTHWEST CORNER OF ADDISON RD. AND KELLER SPRINGS RD.
- 2 WEATHERPROOF I.C. RECEPTACLE (TAYMAC #10370 OR EQUAL) FOR SECURITY CAMERA RECEPTACLE SHALL BE SERVED FROM PANELBOARD "LCA-7". EXTEND CONDUCTORS AND PROVIDE PULL BOXES AS REQUIRED. REFER TO SHEET 4/E160 FOR ADDITIONAL INFORMATION. VERIFY EXACT LOCATION WITH SECURITY CONSULTANT PRIOR TO INSTALLATION.

EAST THRESHOLD LIGHTING (FIXTURE STATION MATRIX)

STATION DESIGNATION	LIGHTING FIXTURE TYPE/DESIGNATION	QUANTITY AT THIS STATION	BRANCH CIRCUIT
24-00	W	2	HEA-3
24-07.5	A	2	HEB-9/11
24-16.5	A	2	HEB-9/11
24-21	BR	2	HEA-1/3
24-25.5	A	2	HEB-9/11
24-34.5	A	2	HEB-9/11
24-43.5	A	2	HEB-5/7
24-48	BR	2	HEA-1/3
24-50	W	2	HEA-1
24-52.5	A	2	HEB-5/7
24-61.5	A	2	HEB-5/7
24-70.5	A	2	HEB-5/7
24-75	BR	2	HEA-1/3
24-79.5	A	2	HEB-5/7
24-88.5	A	2	HEB-5/7
24-97.5	A	2	HEB-5/7
25-00	W	2	HEA-3

EAST THRESHOLD LIGHTING (FIXTURE STATION MATRIX)

STATION DESIGNATION	LIGHTING FIXTURE TYPE/DESIGNATION	QUANTITY AT THIS STATION	BRANCH CIRCUIT
25-00	C	2	HEA-1
25-02	BR	2	HEA-1/3
25-06.5	A	2	HEB-5/7
25-15.5	A	2	HEB-5/7
25-24.5	A	2	HEB-5/7
25-29	BR	2	HEA-1/3
25-33.5	A	2	HEB-5/7
25-42.5	A	2	HEB-1/3
25-50	W	2	HEA-1
25-51.5	A	2	HEB-1/3
25-56	BR	2	HEA-1/3
25-60.5	A	2	HEB-1/3
25-69.5	A	2	HEB-1/3
25-78.5	A	2	HEB-1/3
25-83	BR	2	HEA-1/3
25-87.5	A	2	HEB-1/3
25-96.5	A	2	HEB-1/3
26-00	W	2	HEA-3
26-05.5	A	2	HEB-1/3
26-10	BR	2	HEA-1/3
26-14.5	A	2	HEB-1/3
26-23	A	2	HEB-1/3



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY LEOPOLDO F. RIOS, P.E., 58272 ON MAY 18, 1998

FINAL RECORD DRAWING  
Date: 12/25/99

2 REVISION PER RFI #'S 906, 190, 191, 907

No.	REVISION	BY	DATE
	CHANGE ORDER	HDR	5-27-98

TEXAS TURNPIKE AUTHORITY  
ADDISON AIRPORT TUNNEL

TUNNEL LIGHTING PLANS

HDR Engineering, Inc. SECTION XIII

DRAWN: WTD DATE: 12/05/96 DESIGNED: LR DATE: 08/28/96  
CHECKED: BL DATE: 08/28/96 SCALE: 1" = 50'

CONTRACT No. DNT-260 SHEET E156 OF 166

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