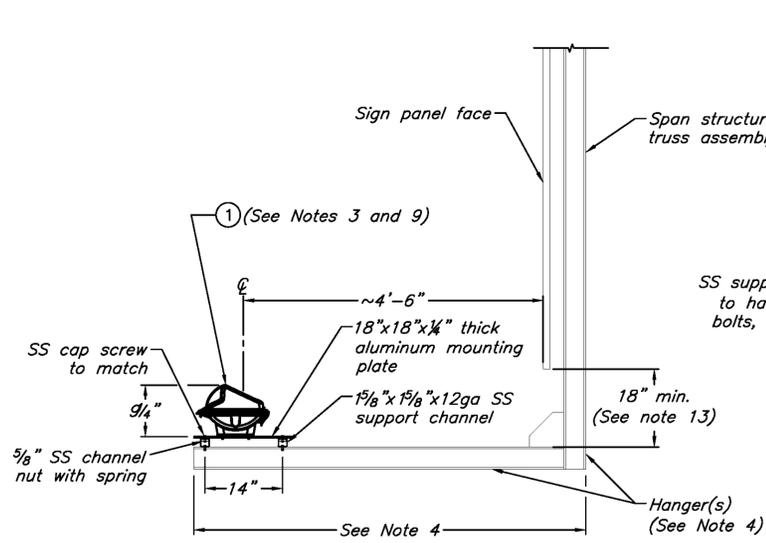


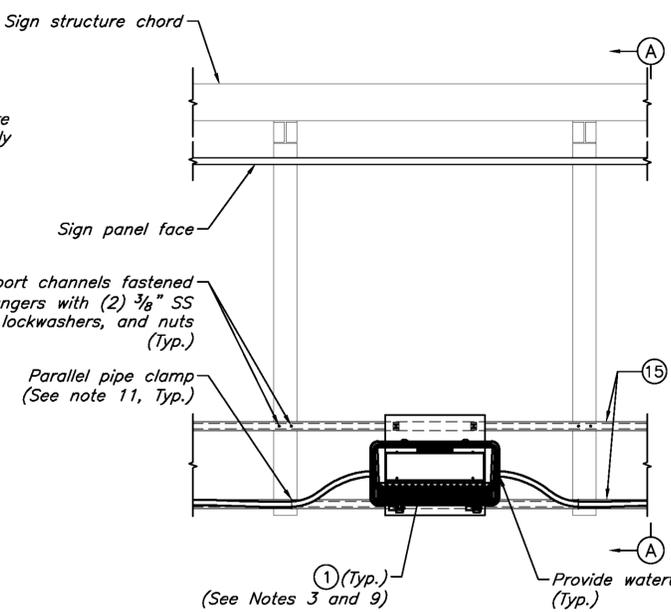
**NOTES**

- For legend see Standard Drawing E-21.
- Standard Drawing E-21 and E-22 shall be used jointly for all directional sign lighting applications.
- Luminaire shall be centered on mounting plate. The mounting plate shall be attached to the support channel as shown on the plan.
- For details and more information on size, material, type, and attachment of sign hangers, see Standard Drawing SI-19 or as shown on Contract Drawings.
- All conduit mounting and support hardware shall be stainless steel.
- Enclosed circuit breaker arrangement shall be utilized with all group controlled roadway lighting circuits. Load center with photoelectric control arrangement shall be utilized with all 24hr non-group controlled circuits. Voltage characteristics and/or type of service shall be coordinated with the local available utility or circuit to be utilized. The enclosed circuit breaker shall be installed on the downstream side of traffic on the sign foundation.
- Neutral shall be grounded only when used in a service entrance load center, provide 3/4"x10'-0" min. ground rod (provide rod/rods to satisfy utility service entrance requirements).
- Grounding for all sign structures shall be accomplished by extending a ground wire in the electrical service conduit from the ground rod in the adjacent junction box to the grounding stud within the sign structure end frame column handhole.
- Details shown on this sheet are based on a generic luminaire. Field installation shall be as directed on the Contract Plans. Dimensions and details may differ based on the luminaire installed.
- Conduit shall transition from the flexible metallic conduit to aluminum conduit on sign hangers. Conduits shall be supported along sign hangers using an attachment methods as shown on this drawing.
- SOOW cable shall be attached to the stainless steel support channel using parallel pipe clamp. The cable shall be supported at every 5ft.
- Sign lighting luminaires shall be tilted maximum of 10 degrees. The Contractor shall provide external bracket to support luminaire tilt. Submit the bracket shop drawing to The Engineer for approval.
- For multiple (side-by-side) sign panel configuration, 18" min spacing shall be maintained from the bottom of the lower sign panel.



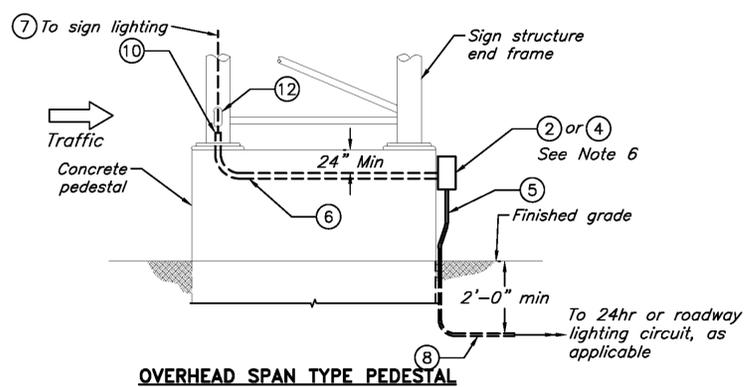
**SIGN LIGHTING INSTALLATION - SECTION A-A**

Scale: 3/4" = 1'-0"  
(Wiring and conduit not shown)

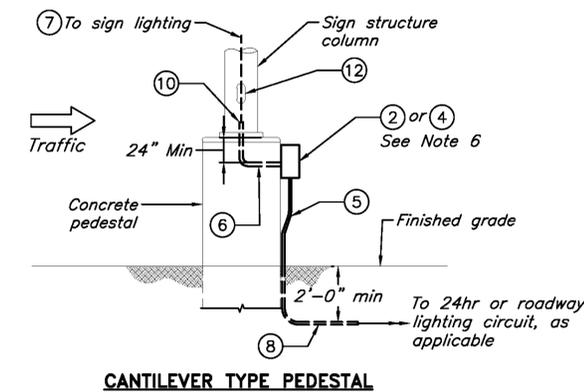


**SIGN LIGHTING INSTALLATION - PLAN**

Scale: 3/4" = 1'-0"



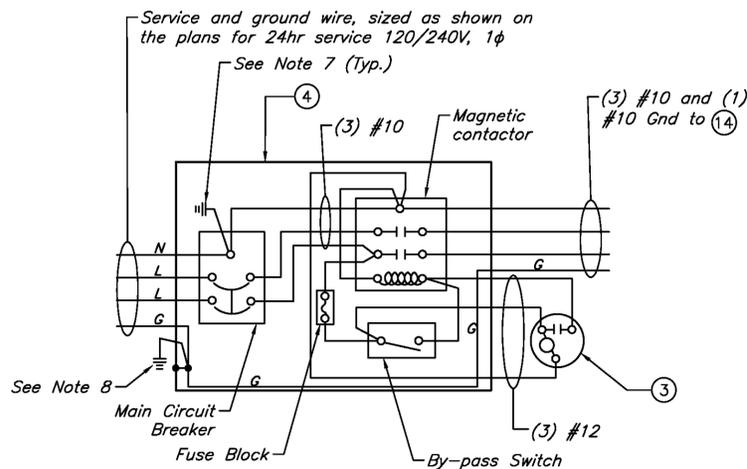
**OVERHEAD SPAN TYPE PEDESTAL**



**CANTILEVER TYPE PEDESTAL**

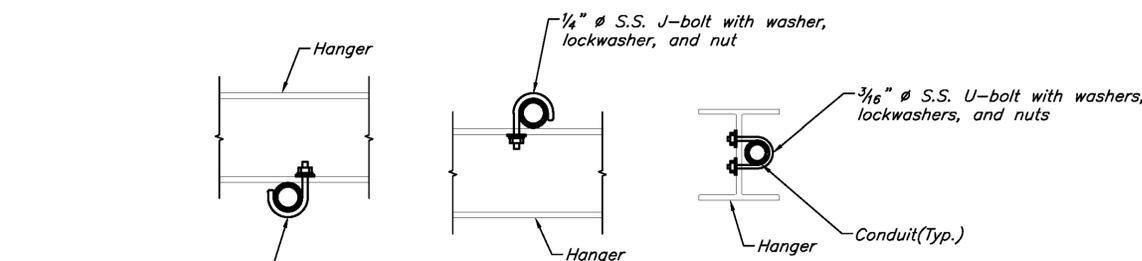
**SERVICE EQUIPMENT INSTALLATION DETAILS AT SIGN STRUCTURE FOUNDATIONS**

Scale: 1/4" = 1'-0"



**LOAD CENTER DIAGRAM FOR 24HR CIRCUITS**

NOT TO SCALE  
(See Note 6)  
Single-phase, 3-wire distribution is shown.  
Revise circuit diagram for 3-phase, 4-wire system.

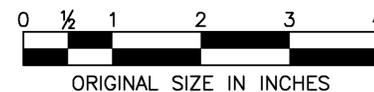


**CONDUIT SUPPORT DETAILS**

NOT TO SCALE

BY	DATE
AG	12/2012
MDC	12/2012
MS	12/2012
ALB	12/2012

If you use this DWG:	
You also need	E-21
You may need	E-29, SI-19



ORIGINAL SIZE IN INCHES

APP.	NO.	DATE	REVISION
1	01/2013		REPLACEMENT SHEET
0	04/2010		ORIGINAL DRAWING

CONTRACT NO.

NEW JERSEY TURNPIKE AUTHORITY  
**NEW JERSEY TURNPIKE**

**SIGN LIGHTING DETAILS - 2**

HNTB  
**ANTHONY J. BARTELLO**  
New Jersey Professional Engineer License No. GE 40842

**STANDARD DRAWING**  
**E-22**

SHEET NO.

OF