

# OVERHEAD SIGN LIGHTING DETAILS (METAL HALIDE -- BRIDGE MOUNTED)

D-770-7A

**NOTES:**

**Conduit:** Attach conduit to sign structure as required using steel banding and/or conduit hangers. See sign lighting layout sheet(s) for feeder conduit layout.

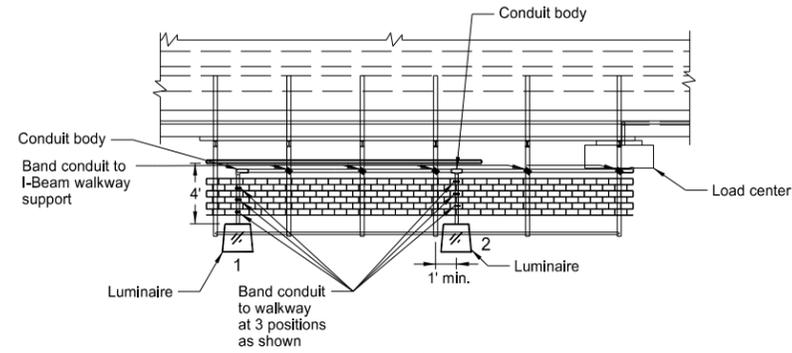
**Banding:** All banding shall be of 3/4" width stainless steel with stainless steel buckles.

**Load Center:** The load center shall be of sufficient size to accommodate the required wiring, equipment, and feed conduit. See the sign lighting layout sheet(s) for size of conduit.

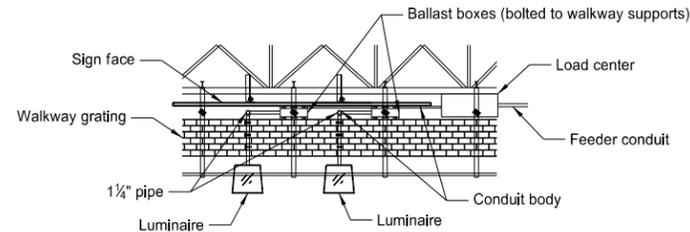
**Ballast:** Each luminaire shall have a separate ballast mounted in the luminaire or in a ballast box bolted to the walkway support. Conductor shall not be spliced between luminaire and ballast.

**Luminaires:** Metal halide luminaires shall be operated on 240 Volts unless shown otherwise on layout sheet(s). See sign lighting layout sheet(s) for number and location of luminaires.

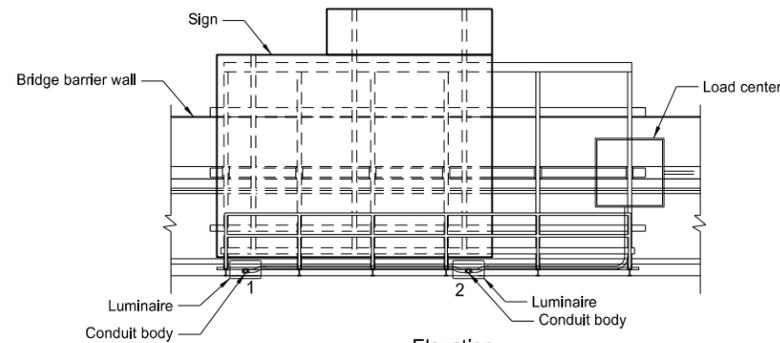
**Bridge Mounting:** See layout sheet(s) for bridge mounting details.



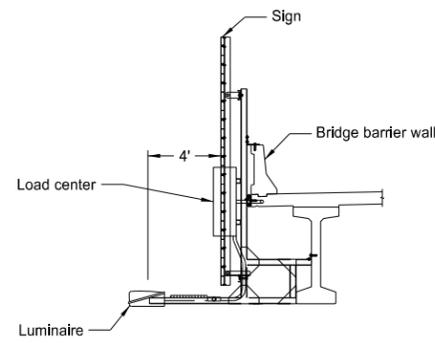
Plan



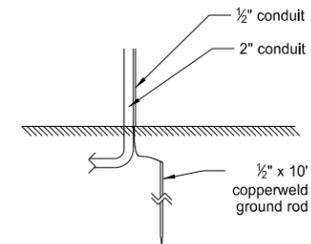
Ballast Box Detail



Elevation



End View



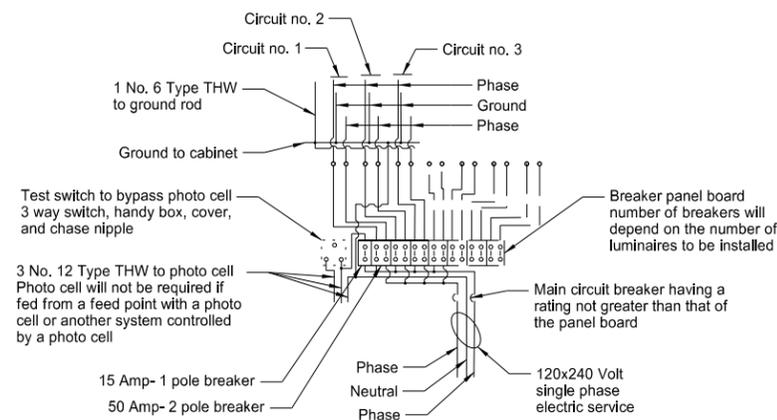
Ground Rod Detail

CONDUIT SIZES AND NUMBER OF CONDUCTORS			
FROM LUMINAIRE TO LUMINAIRE	CONDUIT SIZE	NUMBER OF CONDUCTORS	
		FEEDER CONDUCTOR (No. 12 AWG)	GROUNDING CONDUCTOR (No. 12 THW)
1-2	1 1/4"	2	1
2-3	1 1/4"	4	1
3-4	1 1/4"	6	1
4-5	1 1/4"	8	1
5-6	1 1/4"	10	1
6-7	1 1/4"	12	1
7-8	1 1/4"	14	1
8-9	1 1/2"	16	1
9-10	1 1/2"	18	1
10-11	1 1/2"	20	1
11-12	2"	22	1
12-13	2"	24	1
13-14	2"	26	1

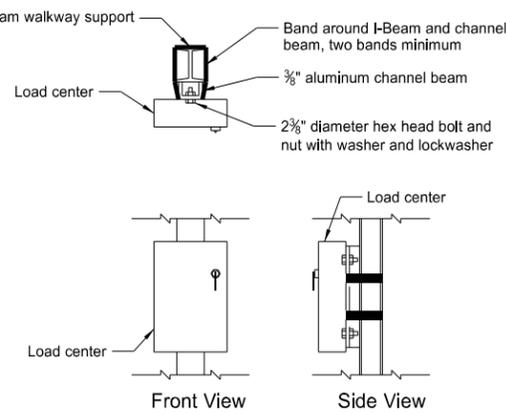
The number of luminaires shown in the plans shall be installed unless the appropriate shop drawings require a number other than what is shown, to which that number shall be installed.

The conduit sizes shown in the conduit size table shall be used.

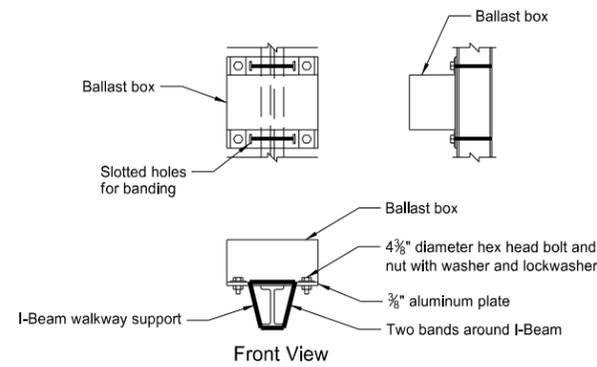
Conduit and conductor from the load center to the closest luminaire shall be the size and number shown as if running to the next sequential luminaire.



Load Center Detail



Load Center Mounting Detail



Ballast Box Mounting Detail

NORTH DAKOTA	
DEPARTMENT OF TRANSPORTATION	
10-15-13	
REVISIONS	
DATE	CHANGE

This document was originally issued and sealed by  
**Roger Weigel,**  
Registration Number  
PE-2930,  
on 10/15/2013 and the original document is stored at the  
North Dakota Department  
of Transportation