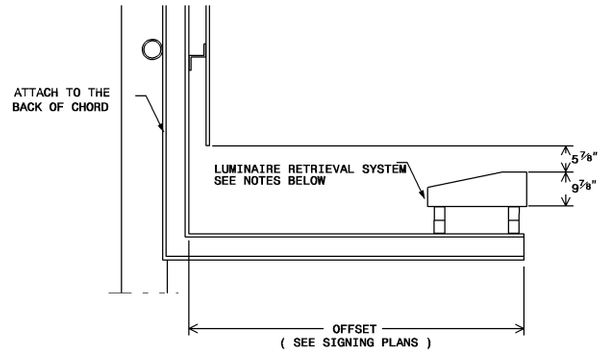
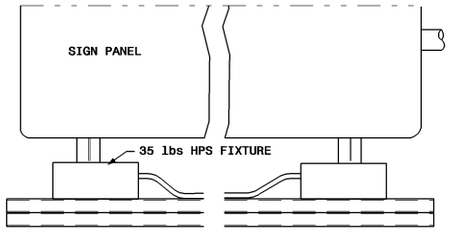
STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

7-06

ENGLISH STANDARD DRAWING FOR

LIGHTING SYSTEM FOR OVERHEAD SIGN ASSEMBLIES WITH LUMINAIRE RETRIEVAL SYSTEM





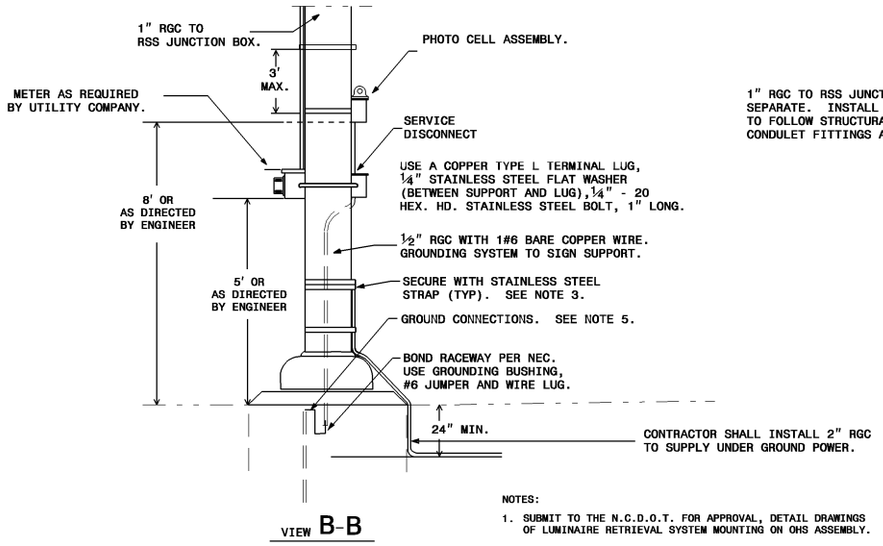
IMPORTANT:

DELIVER THE POWER UNDER GROUND TO THE SIGN STRUCTURE'S VERTICAL UPRIGHT. DO NOT INSTALL SERVICE POLE UNLESS SPECIFICALLY APPROVED BY THE ENGINEER.

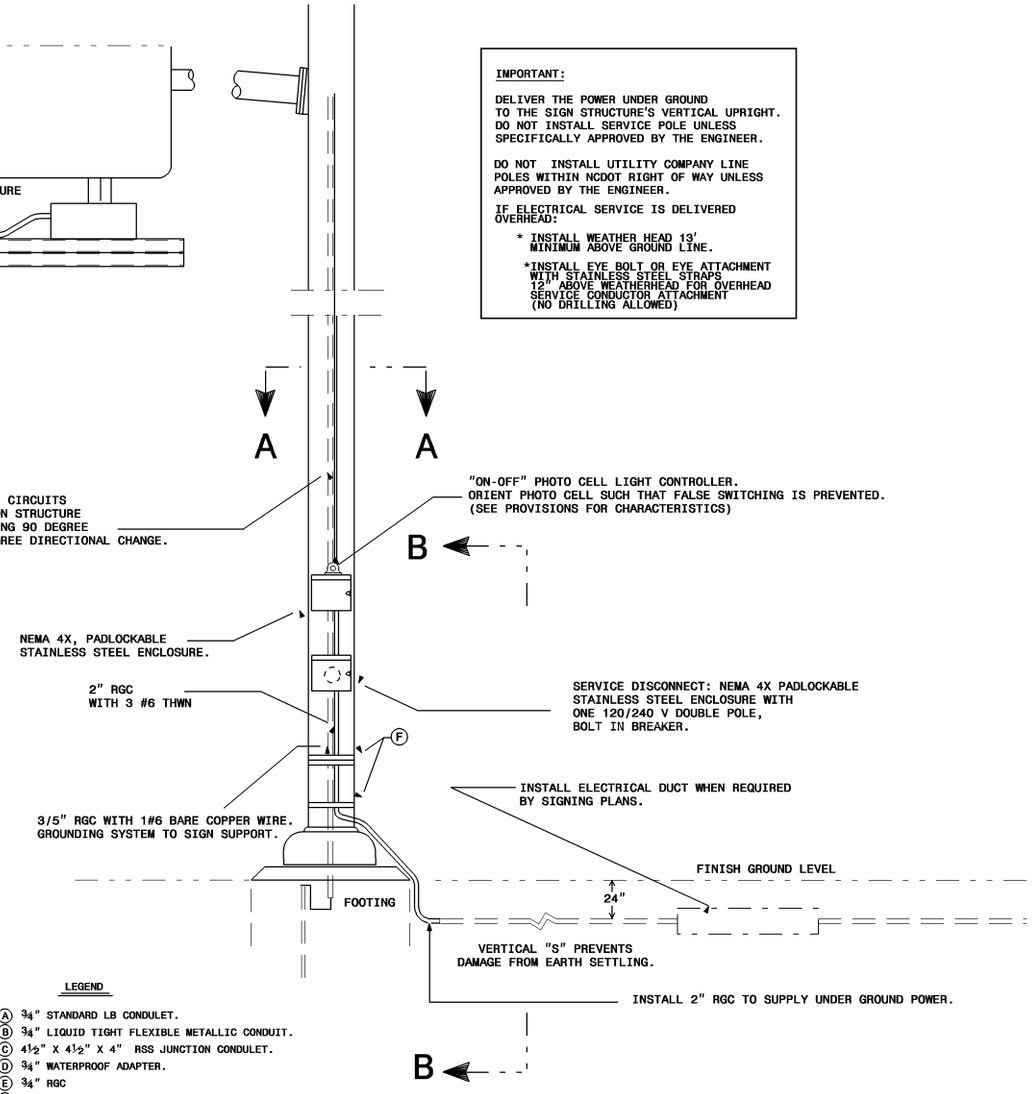
DO NOT INSTALL UTILITY COMPANY LINE POLES WITHIN NCDOT RIGHT OF WAY UNLESS APPROVED BY THE ENGINEER.

IF ELECTRICAL SERVICE IS DELIVERED OVERHEAD:

* INSTALL WEATHER HEAD 13' MINIMUM ABOVE GROUND LINE.
* INSTALL EYE BOLT OR EYE ATTACHMENT WITH STAINLESS STEEL STRAPS 12" ABOVE WEATHERHEAD FOR OVERHEAD SERVICE CONDUCTOR ATTACHMENT (NO DRILLING ALLOWED)



VIEW B-B

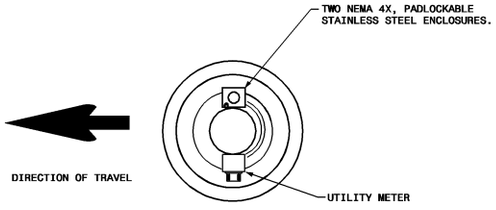


LEGEND

- (A) 3/4" STANDARD LB CONDULET.
- (B) 3/4" LIQUID TIGHT FLEXIBLE METALLIC CONDUIT.
- (C) 4 1/2" X 4 1/2" X 4" RSS JUNCTION CONDULET.
- (D) 3/4" WATERPROOF ADAPTER.
- (E) 3/4" RGC
- (F) STAINLESS STEEL STRAPS.

NOTES:

1. SUBMIT TO THE N.C.D.O.T. FOR APPROVAL, DETAIL DRAWINGS OF LUMINAIRE RETRIEVAL SYSTEM MOUNTING ON OHS ASSEMBLY.
2. CAULK ALL ENDS OF CONDUIT UNDERGROUND WITH A CAULKING COMPOUND APPROVED BY THE ENGINEER.
3. USE STAINLESS STEEL STRAPS UNLESS OTHERWISE SPECIFIED.
4. USE WATER TIGHT JUNCTION BOXES AND CONDULETS.
5. USE GROUNDING ELECTRODES 10' LONG AND 5/8" IN DIAMETER COPPER CLAD STEEL RODS DRIVEN A MINIMUM DEPTH OF 36" INTO UNDISTURBED EARTH.
6. TEST GROUNDING SYSTEM USING AN APPROVED METHOD. SYSTEM SHOULD MEASURE LESS THAN TWENTY (20) OHMS. IF THE RESISTANCE MEASUREMENT IS GREATER THAN 20 OHMS, INSTALL ADDITIONAL GROUND RODS AS DIRECTED BY THE ENGINEER TO FULFILL THIS REQUIREMENT.
7. ALL UNDERGROUND BONDING OF GROUNDING ELECTRODES AND CONDUCTORS SHALL BE BY AN EXOTHERMIC WELDING PROCESS (CADWELD OR EQUIVALENT).
8. USE UL APPROVED ASSEMBLIES AND COMPONENTS. INSTALLAT TO MEET NEC REQUIREMENTS AND ALL APPROVED STATE AND LOCAL CODES.
9. USE LUMINAIRE RETRIEVAL SYSTEM ON ALL OVERHEAD STRUCTURES. WALKWAY AND HANDRAIL IS NOT REQUIRED.
10. INSTALLAT OF LUMINAIRE RETRIEVAL SYSTEM TO ALLOW LUMINAIRE MAINTENANCE FROM THE SHOULDER WITHOUT THE NEED FOR LANE CLOSURE. LOCATE THE DRIVE HANDLE OF THE LUMINAIRE RETRIEVAL SYSTEM A MINIMUM OF 0.92M (3 ') FROM THE RIGHT EDGE OF THE SHOULDER AWAY FROM THE ROADWAY TRAFFIC.
11. ESTABLISH COORDINATION BETWEEN THE OHS ASSEMBLY AND LUMINAIRE RETRIEVAL SYSTEM FABRICATORS SO THAT A FULLY FUNCTIONAL SIGN AND LIGHTING SYSTEM IS INSTALLED. THE CONTRACTOR IS RESPONSIBLE FOR ANY OHS ASSEMBLY AND LUMINAIRE RETRIEVAL SYSTEM INCOMPATIBILITIES, OR INSTALLATION OF A LIGHTING SYSTEM NOT FUNCTIONING TO ITS INTENDED PURPOSE.



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SHEET 2 OF 2

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