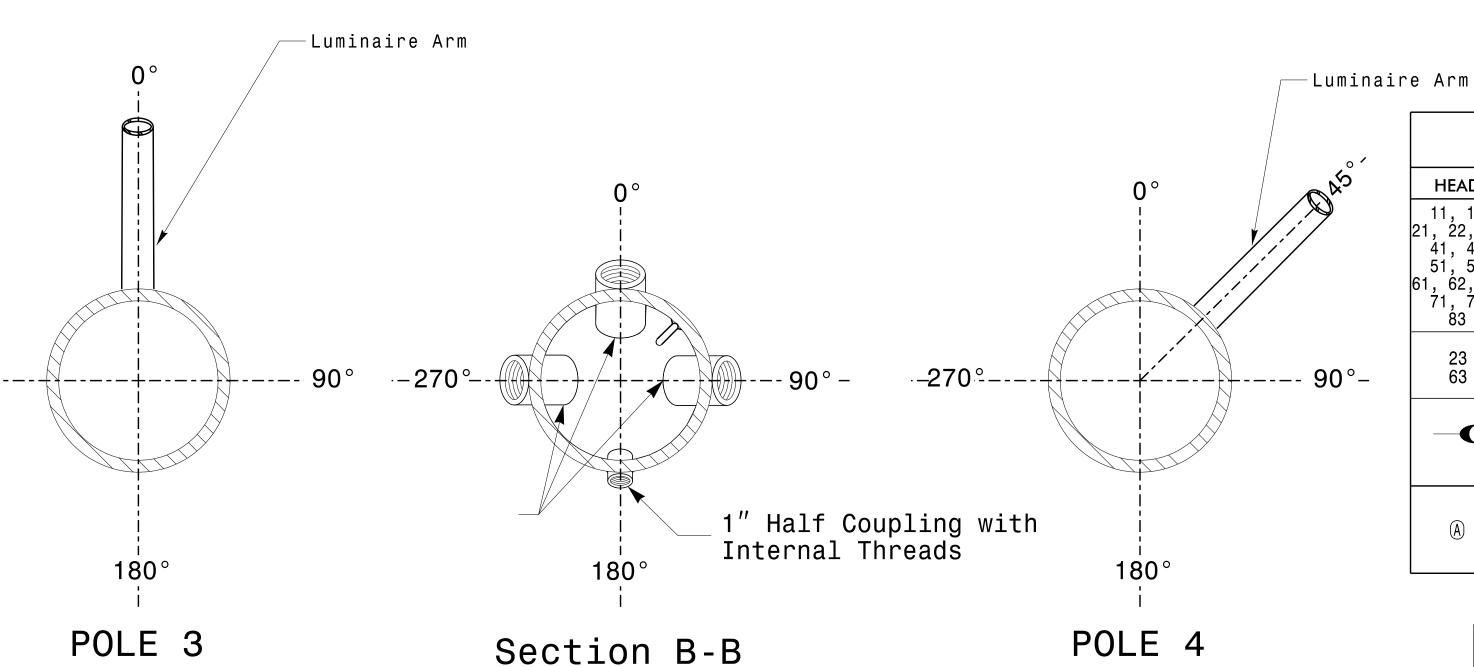


## Notes

## DESIGN REFERENCE MATERIAL

- 1. Design the traffic signal structure and foundation in accordance with:
- The 5th Edition 2009 AASHTO "Standard Specifications for Structural Supports for Highway
- the specifications can be found in the traffic signal project special provisions.
- The 2012 NCDOT Roadway Standard Drawings.
- The traffic signal project plans and special provisions.
- The NCDOT "Metal Pole Standards" located at the following NCDOT website: https://connect.ncdot.gov/resources/safety/Pages/ITS-Design-Resources.aspx
- 2. Fabricate Metal Pole #3 and #4 using design loadings shown. The contractor may revise attachment heights and radial orientations of wire entrances with approval from the Division Traffic Engineer. Any modifications to the original location of accessories must be reflected on the shop drawings when they are submitted for review and approval.
- 3. Design a drilled pier foundation that conforms to the requirements of ITSS Project Special Provisions (Version 12.3) included with and as part of these plans.
- 4. Comply with NEC code 230.2(E) concerning service equipment disconnect.
- 5. Lighting fixture and luminaire arm represent a load condition to the pole and may not represent exactly how the fixtures will be mounted. The contractor is responsible for ensuring that any required factory preps for mounting fixtures to the pole are included on the shop drawings.
- 6. Design the luminaire support arm using design dimensions as shown on elevations views. Refer to the Radial Orientation Detail for attachment to the signal pole. Design arm end for a nominal 2 inch slip fit socket connection for light assembly.



Radial Orientation for Factory Installed

Accessories

Loading Diagram

-METAL POLE #2

NCDOT STD: S30H2

-METAL POLE #3

Section A-A

PLANS PREPARED IN THE OFFICE OF:

NC License #F-0102

P.O. Box 33068 Raleigh, NC 27636

CUSTOM POLE - 35'

Pole #3 = 10'

Pole #4 = 16'

POLE 3 H1: 27.17 POLE 4 H1: 27.77

Pole Elevation

Rise

35′ TO

ROADWAY (APPROX)

Section A-A

METAL POLE #1

NCDOT STD: S30H2

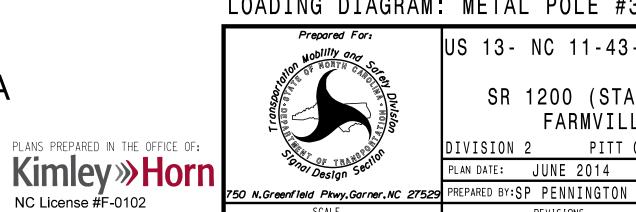
12 10 10 9

METAL POLE #4

CUSTOM POLE - 35'

LOADING SCHEDULE FOR STRAIN POLES **DESCRIPTION** SIGNAL HEAD 12"-3 SECTION-WITH BACKPLATE, HANGER, AND BALANCE ADJUSTER SIGNAL HEAD 12"-5 SECTION-WITH BACKPLATE, HANGER, AND BALANCE ADJUSTER -LUMINAIRE STREET NAME SIGN WITH HANGER

LOADING DIAGRAM: METAL POLE #3 and #4



N/A

US 13- NC 11-43-903(MEMORIAL DRIVE) SR 1200 (STANTONSBURG ROAD)/ FARMVILLE BOULEVARD DIVISION 2 PITT COUNTY

GREENVILL JUNE 2014 REVIEWED BY: SL PHILLIPS REVIEWED BY:

SIG. INVENTORY NO. 02-0053