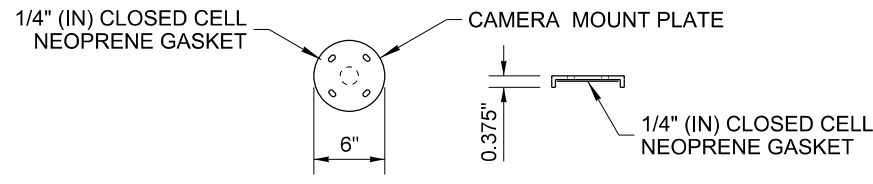
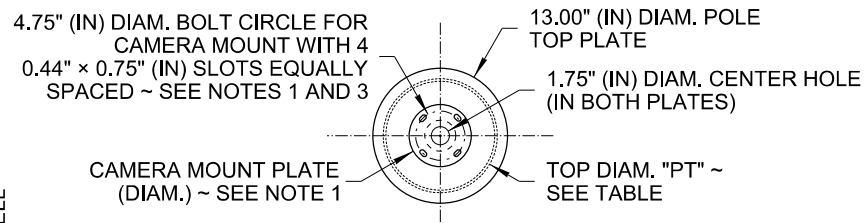


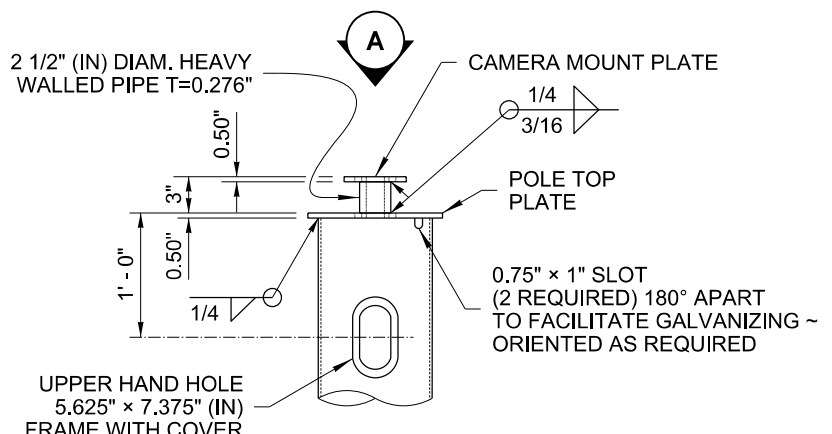
DRAWN BY: FERN LIDDELL



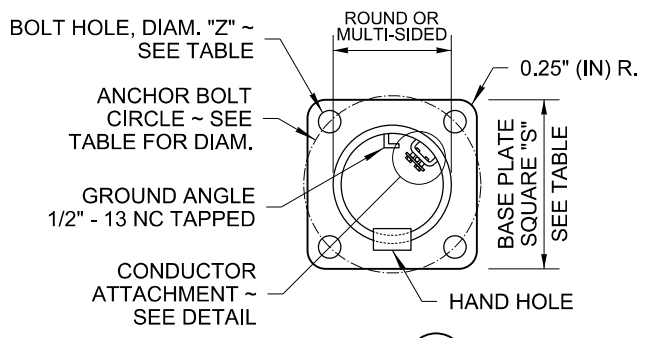
RAIN CAP DETAIL



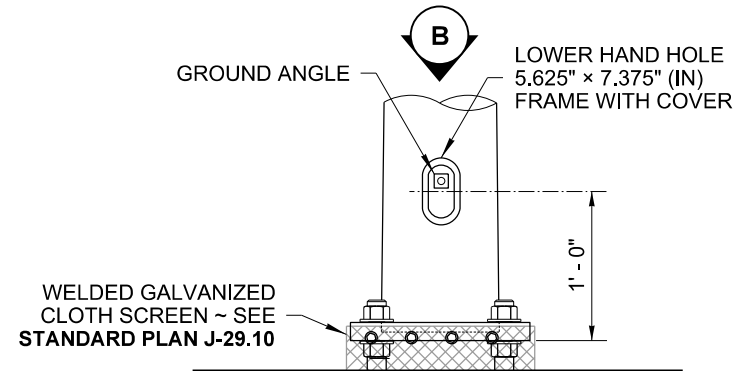
VIEW A



POLE TOP DETAIL



VIEW B



POLE BASE DETAIL

SEE POLE TOP DETAIL AND CAMERA POLE DATA TABLE

UPPER HAND HOLE WITH FRAME AND COVER ON FACE

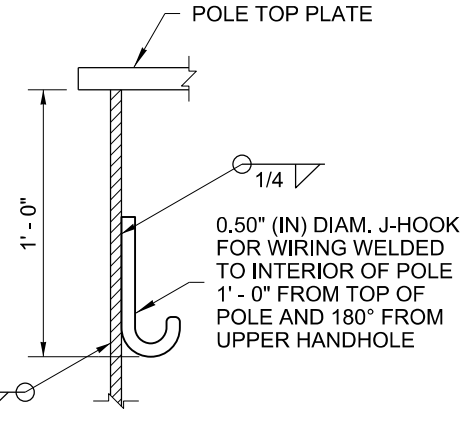
LOCATE HOOK OVER 0.25" x 1.00" LONG SLOT IN POLE WALL

CAMERA HEIGHT "PL" ~ SEE CAMERA POLE DATA

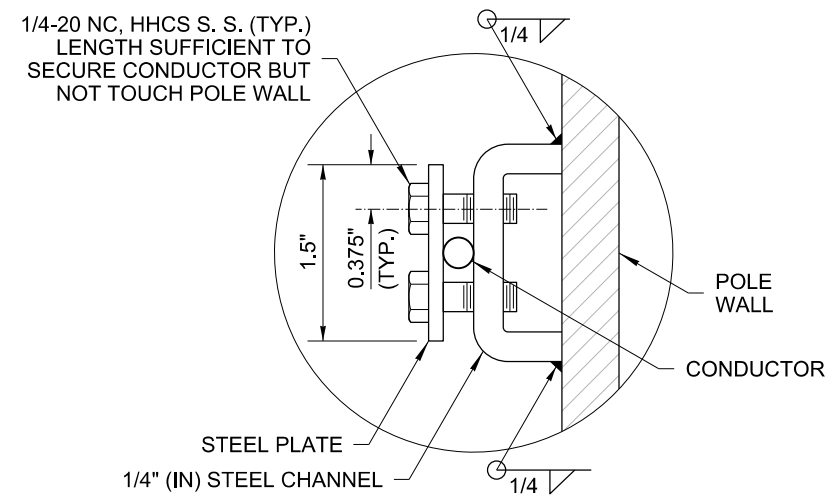
LOWER HAND HOLE SHALL BE PLACED 90° TO ROADWAY

TOP OF FOUNDATION OR TOP OF MOUNT (SEE CONTRACT FOR TYPE REQUIRED ~ SEE STANDARD PLAN J-29.10 OR J-29.16 FOR DETAILS)

CAMERA POLE FOR LOADING LOAD CASE #1
(TOP MOUNT CAMERA AND 1' - 0" DIAM. DISH)



J-HOOK FOR WIRING LOAD CASE #1



CONDUCTOR ATTACHMENT DETAIL

CONDUCTOR ATTACHMENT DETAILS MAY VARY PER MANUFACTURER

CAMERA POLE DATA							
CAMERA HEIGHT "PL" (FT.)	POLE MOUNT TYPE	TOP DIAM. "PT" (IN.) (MIN.)	POLE TUBE			ANCHOR BOLT DIAM. (IN.)	CONNECTION BOLT DIAM. (IN.)
			SQUARE "S" (IN.)	BOLT CIRCLE (IN.)	HOLE "Z" (IN.)		
15	ELBOW	8.50	25.00	25.50	1.50	-	1.25
20	ELBOW	8.50	25.00	25.50	1.50	-	1.25
30	ELBOW	9.00	25.00	25.50	1.50	-	1.25
20 - 30	GROUND	9.00	25.00	25.50	1.50	1.25	-
40	ELBOW	9.00	25.00	25.50	1.50	-	1.25
40	GROUND	9.00	25.00	25.50	1.50	1.25	-
50	ELBOW	10.00	25.00	25.50	1.50	-	1.25
50	GROUND	10.00	25.00	25.50	1.50	1.25	-

NOTES

1. Verify Pole Top Plate, Camera Mount Plate, Bolt Circle, and Bolt Holes are adequate for the required Camera prior to releasing poles for manufacturing.
2. Steel shall be galvanized after fabrication per **AASHTO M111**. Hardware shall be galvanized per **AASHTO M232**. Fasteners less than 0.50" (in.) diameter shall be stainless or brass.
3. Attach Camera to Camera Mount Plate using four (4) 3/8"-16 UNC x 1.75" stainless steel bolts with eight (8) stainless steel washers and four (4) lock-nuts with nylon inserts, or as approved by the Camera Supplier.
4. For Ground Mount Details, see **Standard Plan J-29.10**. For Elbow Mount Details, see **Standard Plan J-29.16**.

DESIGN CRITERIA:

This structure has been designed according to the Fifth Edition **2009 AASHTO Standard Specifications** for Structural Supports for Highway Signs, Luminaires, and Traffic Signals. Basic wind velocity is 90 MPH. Design Life/Recurrence Interval 50 years.

WIND VELOCITY:

90 MPH

Maximum Pole Deflection shall not exceed 0.7" in 30 MPH and 1.4" in 70 MPH wind.

LOAD CASE #1:

Camera (1) - EPA = 4.00 sq. ft. @ 2' - 0" above pole top, and:

Dish (1) - 1' - 0" diameter @ pole top level.

LOAD CASE #2:

Camera (1) - EPA = 4.00 sq. ft. @ 2' - 0" above pole top, and:

Camera (2) - EPA = 0.54 sq. ft. @ 1' - 0" and 2' - 0" from pole top, and:

NEMA Cabinet (2) - EPA = 1.33 sq. ft. @ 3' - 8" from pole top, install back-to-back NEMA Cabinets, and:

Radio Equipment (2) - EPA = 2.25 sq. ft. each @ 2' - 0" and 9' - 0" from pole top.

EPA = Effective Projected Area

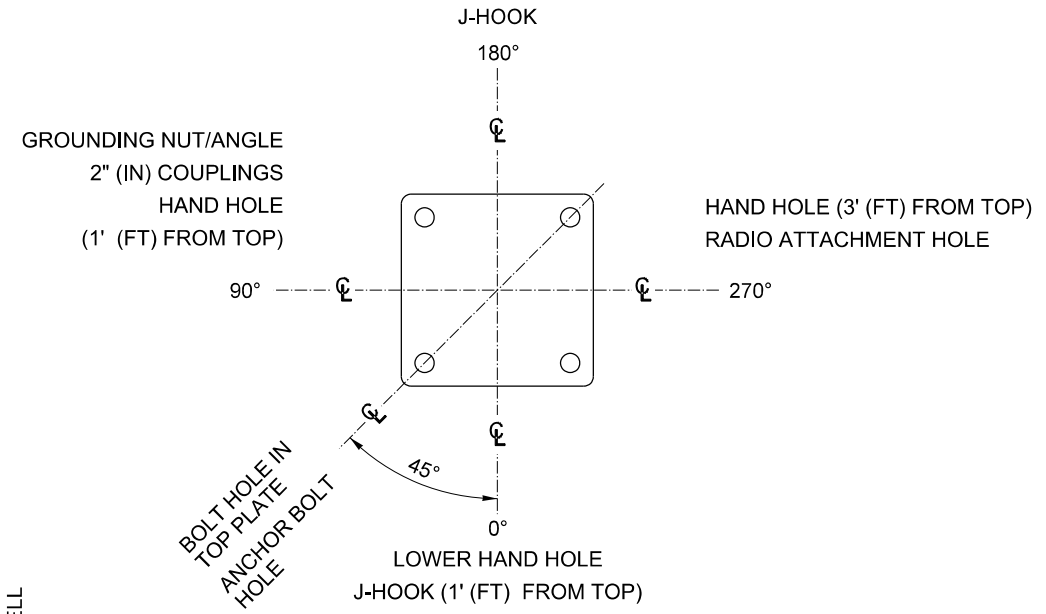


TYPE CCTV TRAFFIC SIGNAL STANDARD (CAMERA POLE) STANDARD PLAN J-29.15-01

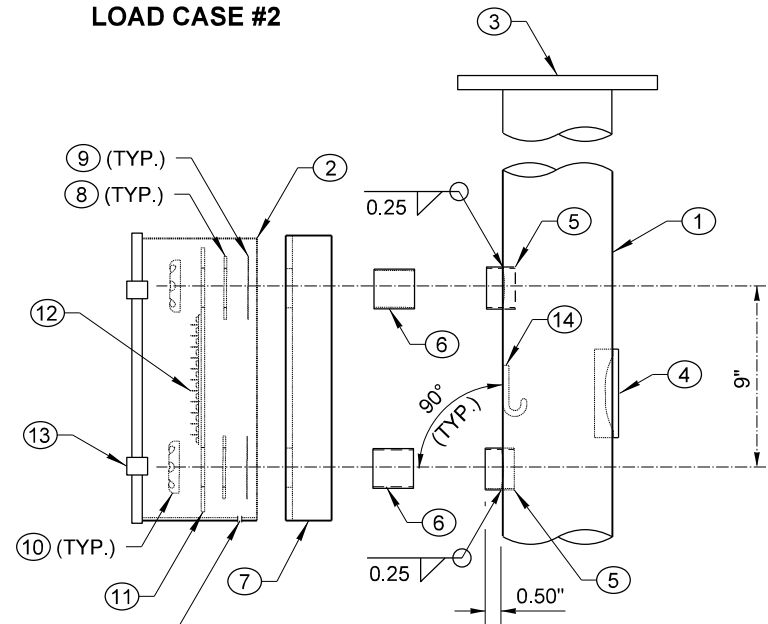
SHEET 1 OF 2 SHEETS

APPROVED FOR PUBLICATION

DRAWN BY: FERN LIDDELL



**RADIAL INDEX
LOAD CASE #2**

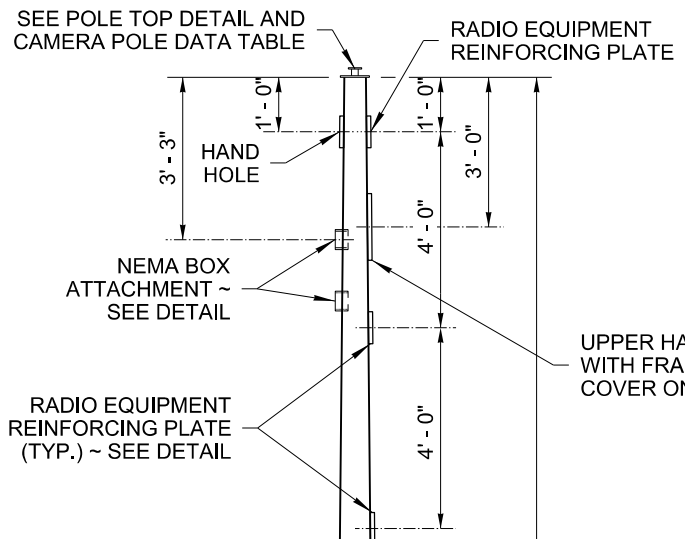


**NEMA BOX
ATTACHMENT DETAIL**

1/4" (IN) DIAM. DRAIN HOLE ~
DRILL FROM INSIDE

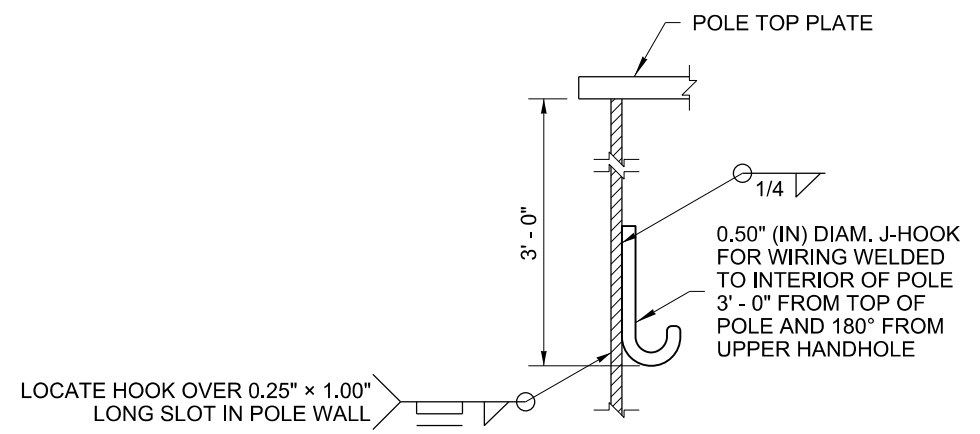
KEY

- ① CAMERA/TDA POLE MOUNTS
- ② NEMA 4X (STAINLESS STEEL) ~
SIZE 16" H x 12" W x 6" D
- ③ CAMERA MOUNT PLATE
- ④ CAMERA UPPER HANDHOLE
- ⑤ 2" COUPLING
- ⑥ 2" SHORT NIPPLE
- ⑦ CHANNEL DRILLED 1/8" OVERSIZE OF NIPPLE
- ⑧ STEEL WASHER
- ⑨ CONDUIT WATERTIGHT LOCKNUT
- ⑩ END BUSHING
- ⑪ BACK PLATE ~ DRILL OVER SIZE FOR CONDUIT,
SEAL WASHER, AND LOCKNUT
- ⑫ TERMINAL BLOCK
- ⑬ HINGED DOOR WITH TWO PAD-LOCKABLE
FLIP LATCHES (TYP.)
- ⑭ J-HOOK FOR WIRING

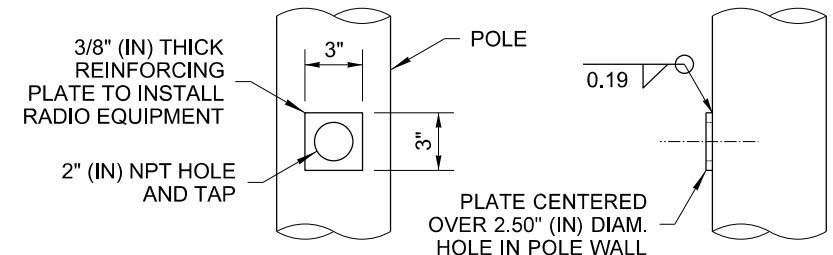


LOWER HAND HOLE
SHALL BE PLACED
90° TO ROADWAY

**CAMERA POLE FOR LOADING
LOAD CASE #2
(TOP MOUNT CAMERA, 2 SIDEMOUNT CAMERAS,
2 NEMA CABINETS & 2 RADIO EQUIPMENTS)**

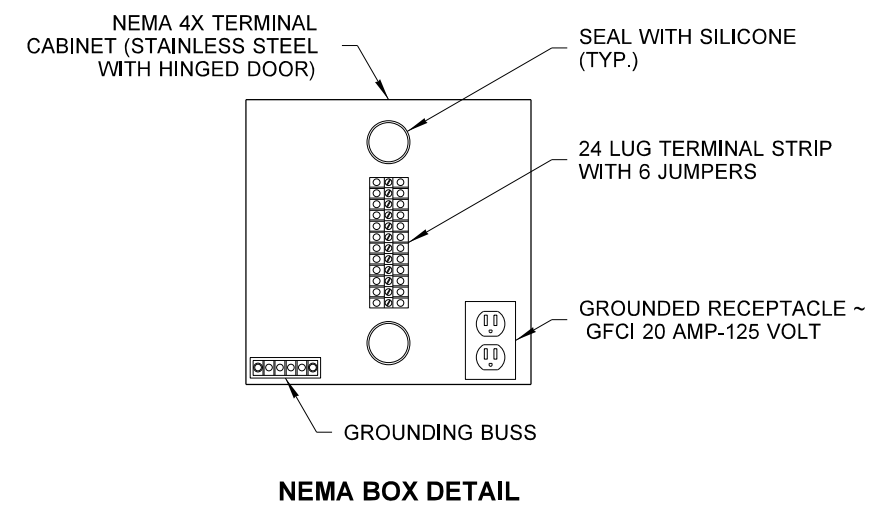


**J-HOOK FOR WIRING
LOAD CASE #2**



**RADIO EQUIPMENT
REINFORCING PLATE**

TOP OF FOUNDATION OR
TOP OF MOUNT (SEE
CONTRACT FOR TYPE
REQUIRED ~ SEE STANDARD
PLAN J-29.10 OR J-29.16
FOR DETAILS)



NEMA BOX DETAIL



**TYPE CCTV TRAFFIC
SIGNAL STANDARD
(CAMERA POLE)
STANDARD PLAN J-29.15-01**

SHEET 2 OF 2 SHEETS

APPROVED FOR PUBLICATION

STATE DESIGN ENGINEER
Washington State Department of Transportation