

LOAD CASE #1 LOADING:

- (1) CAMERA 4.0 SQ FT @ 2'-0" ABOVE POLE TOP
- (1) DISH 12" DIA @ POLE TOP
- (1) NEMA CABINET 1.33 SQ FT @ 3'-8" FROM POLE TOP

MAXIMUM DEFLECTION SHALL NOT EXCEED 0.7" IN 30 MPH WIND, OR 1.4" IN 70 MPH WIND

APPROVED

CONNECTING BOLT DIA (IN)

1 1/4

Manufacturer's Pole Plan Approved For Listing As A Pre-Approved Drawing WSDOT Bridge & Structures Office By GB Date 9.14-2020



8-18-20 (EXPIRES 12-18-21

NOTE: FOR NOTE AT WELD SYMBOL TAIL, SEE WELDING PROCEDURE SPECIFICATION

≥ 6MM (0.25 IN UT A RANDOM 30% OF ALL FILLET WELDS AND PARTIAL JOINT PENETRATION (PJP) LONGITUDINAL SEAM WELDS MAGNETIC PARTICLE TESTED (MT). ITEM DESCRIPTION ASSY FINISH NO PER WELDING INSPECTION OF STRUCTURE SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF WASHINGTON STATE DEPARTMENT OF TRANSPORTATIONS STANDARD SPECIFICATION SECTION 6-03.3(25) AND 2015 AASHTO WELD INSPECTION SECTION 14.4.4.8 NEOPRENE GASKET CAMERA PLATE ASSY 2 CAMERA PLATE ASSY TOP WLDMNT BRIDGE ELBOW X STRUCTURE FINISH SPECIFICATION WLDMT POLE CAMERA "A" X "B" X "C" X "D" GALV. OR PRIME COAT: HOT DIPPED GALV, PER ASTM A 123 GROUND MTG PLATE Χ X FINISH COAT: 6 PAD FABREEKA 1/4 EDERAL OR RAL SPEC .: WEIGHT W/GALV. I.D. TAG - WA 1 Х WEIGHT W/GALV.&PAINT: SLIRFACE AREA. GAL. OF PAINT SKIRT HALF 3/16 x 4" 2 X COVER HH M34M 5x8 2 BOLT MILLERBERND 622 6TH ST. SO. WINSTED, MN 55395 10 BOLT HX HD 1-2-13NC X 1" F593C SS THIS DOCUMENT CONTAINS CONFIDENTIAL INFORMATION AND IS THE PROPERTY OF MILLERBERND MFG AND MAY NOT BE COPIED, REPRODUCED OR DISCLOSED IN ANY MATTER WITHOUT THE EXPRESS 11 BOLT HX HD 1/4-20NC X 1/2 F593C SS 2 X WRITTEN CONSENT FROM MILLERBERND MFG BOLT HX HD 3-8-16NC X 1-3-4 F593C SS 4 SALES ORDER NO.: STATE: SHEET 13 BOLT HVY HX HD 1 1/4-7NC X 8 A 449 4 74577 WA 1 OF 3 DESCRIPTION NUT HVY HX 1-1-4-7NC A563 GV(DH) 8 SUB POLE CAMERA RD LC3 NUT HX NYLON INSERT LOCK 3-8-16 SS 16 EST. WEIGHT: DRAWING NO: NUT SQ 1-2-13 SS 74577-WA-LC3 17 PLUG-THD-PL-2 PVC X PROJECT NAME: RIVET POP 3/16X1/2X3/8 HD SS 4 X 19 SCRWF10-20X1-2SS 12 STATE OF WASHINGTON CAMERA POLES - LOAD CASE #3 20 SCRW HX SK BT HD 1-4-20NC X 1 SS 6 21 WASHER FLAT 1-1/4 GV 12 PROJECT LOCATION: WASH F.56 IDX1.375ODX.091 THK BRASS 22 2 Х OMM. BRASS 23 WASHER FLAT 3/8 SS 7/8 OD 4 DWN BY: REBEKAH DATE: 2/3/17 24 GASKET HH M34 3 CHK BY: DATE:

MATERIAL SPECIFICATIONS

BASE PLATE: ASTM A36 MAST ARM: ASTM A572 GR55 MOUNTING PLATE: ASTM A36 HARDWARE FINISH: ASTM F2329 CONNECTION BOLTS: ASTM A 449 OR F1554 GR105 CONNECTION WASHERS: ANCHOR BOLT NUTS: ASTM A563 GR DH ANCHOR BOLT WASHER: ASTM F436 WELDING ELBOW: ASTM A234 GR WPB, FY = 35KSI PIPE: ASTM A53 GR B OR ASTM A500 GR B

DESIGN CRITERIA

2015 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS ON HIGHWAY SIGNS, LUMINAIRES & TRAFFIC SIGNALS INCLUDING LATEST INTERIMS.

WINDS: 115 MPH WITH A MEAN RECURRENCE INTERVAL OF 1700 YEARS VORTEX SHED: N/A GALLOPING: N/A TRUCK GUST: N/A FATIGUE CAT: N/A
NATURAL WIND GUST: N/A

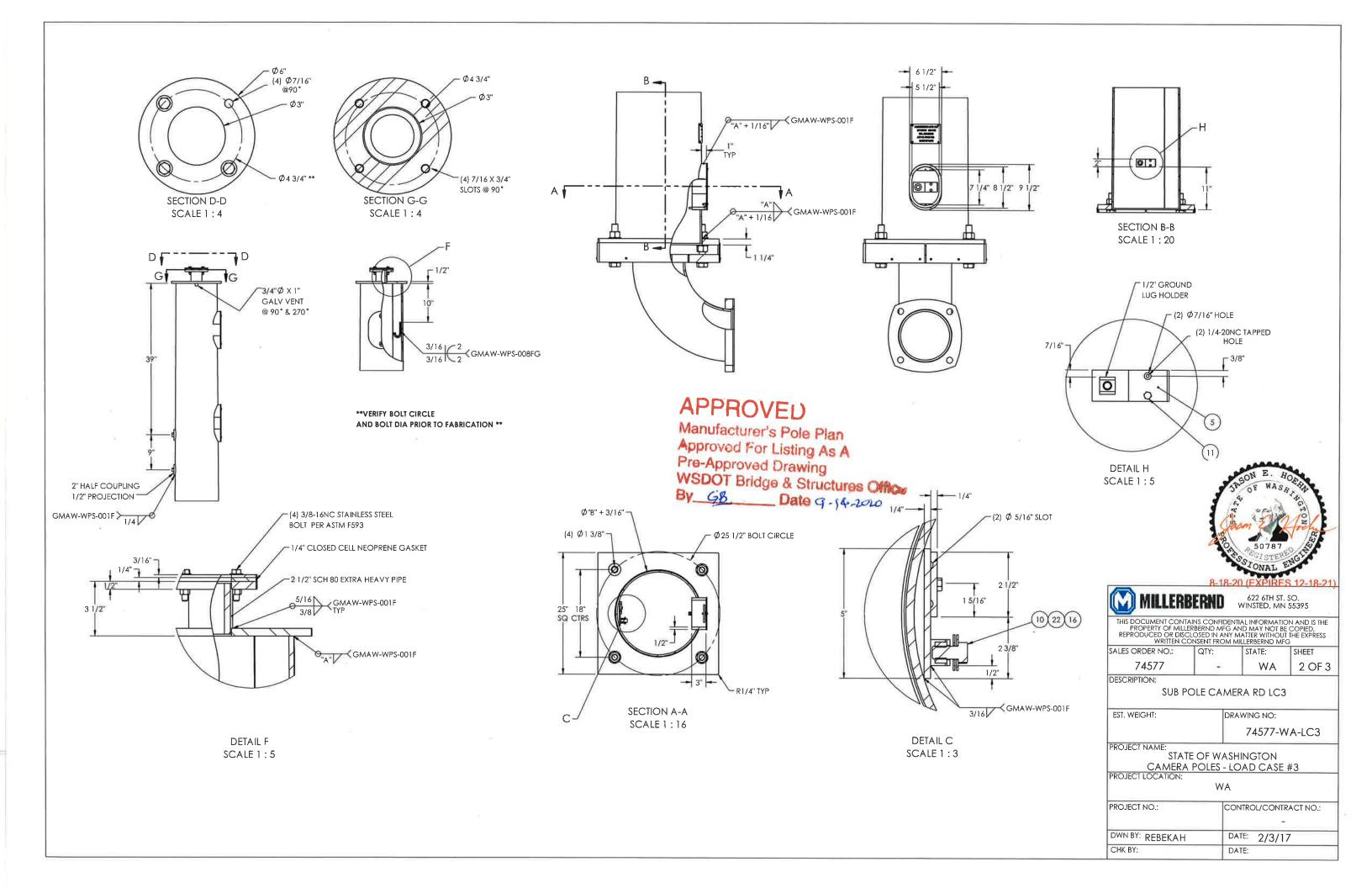
LUMINARE WEIGHT: N/A SIGN WEIGHT: N/A

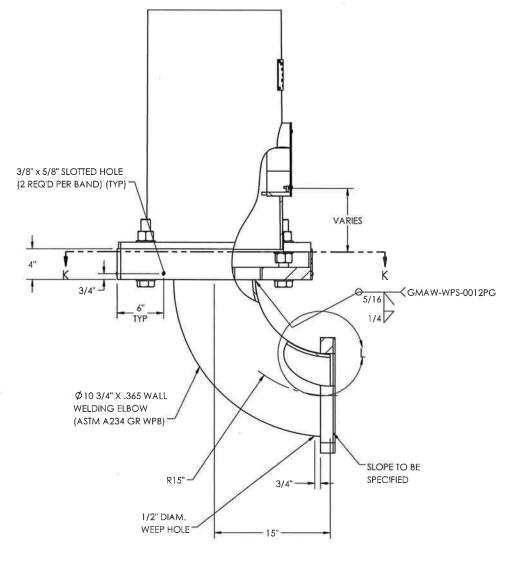
POST: ASTM A572 GR55

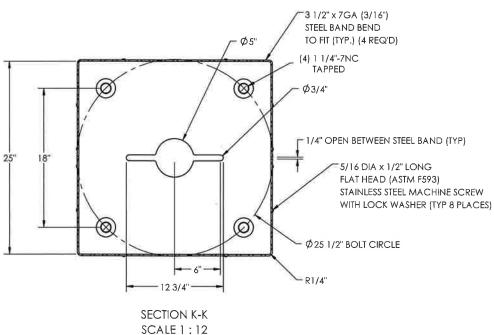
THE POST AND MAST ARM TO BE ROUND TAPERED TUBE ABRICATION WITH ONE SUBMERGED ARC LONGITUDINAL SEAM WELD WITH 100% PENETRATION 6" FROM BASE PLATE, FLANGE AND BUTT WELDED SHAFTS. EXCEPT FOR TUBES LESS THAN 5 IN DIAMETERS; FOR FEMALE SECTION OF SLIP JOINTED TUBES10" AND GREATER: 1,5 X FEMALE SECTION INSIDE DIAMETER + 6 INCHES. FOR FEMALE SECTION OF SLIP JOINTED TUBES LESS THAN 10" FEMALE SECTION NOMINAL DIAMETER AND 60% FOR REMAINDER. GAS METAL ARC WELDING PROCESS WITH 60% PENETRATION MAY BE USED FOR REMAINDER OF WELDED FABRICATION.

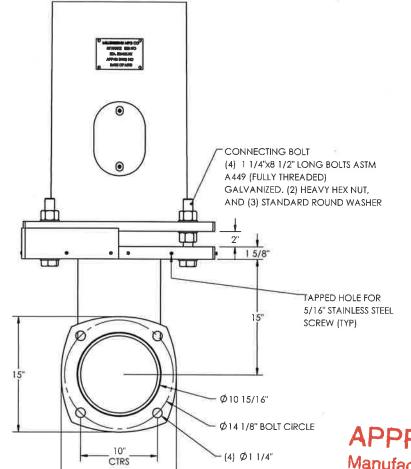
WELD SPECIFICATION

WELD TESTING: 100% OF ALL WELDS VISUAL TESTED (VT), 100% OF ALL COMPLETE JOINT PENETRATION (CJP) WELDS
ULTRASONIC TESTED (UT) BASED ON THE THINNEST MATING MATERIAL: (PER AASHTO 2013 5.15.5-WELD INSP) THICKNESS. < 6MM (0.25 IN) MT



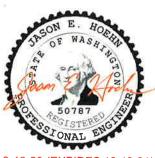




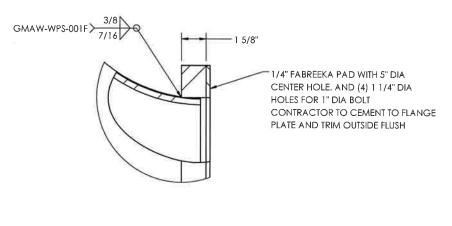


APPROVED

Manufacturer's Pole Plan
Approved For Listing As A
Pre-Approved Drawing
WSDOT Bridge & Structures Office
By SB Date 9-14-2020



8-18-20 (EXPIRES 12-18-21)



DETAIL L SCALE 1:6

MILLERBERND 622 6TH ST. SO. WINSTED, MN 55395 THIS DOCUMENT CONTAINS CONFIDENTIAL INFORMATION AND IS THE PROPERTY OF MILLERBERND MFG AND MAY NOT BE COPIED, REPRODUCED OR DISCLOSED IN ANY MATIER WITHOUT THE EXPRESS WRITTEN CONSENT FROM MILLERBERND MFG SALES ORDER NO.: STATE: 74577 3 OF 3 WA DESCRIPTION: SUB POLE CAMERA RD LC3 EST. WEIGHT: DRAWING NO: 74577-WA-LC3 PROJECT NAME: STATE OF WASHINGTON CAMERA POLES - LOAD CASE #3 PROJECT LOCATION: WA DWN BY: REBEKAH DATE: 2/3/17 CHK BY: DATE: