

REQUEST FOR INFORMATION (RFI)

RFI No.: ABF-RFI-003170R00 Submitted By: OSullivan, Bill Pages: 2
 RFI Date: 17-January-2013 Contact Name: Osullivan, Bill Phone No. 510-808-4602
 Pages Attached: 0

Subject: Light Pole Anchor Bolts: Scope of Work	
References:	
Sub/Sup: ABF	Sub RFI #:
Response Required by: 24-January-2013	Response affects critical path activity?

Description:

In CCO 43S1, the light poles, anchor bolt assemblies and tapered shims were deleted from the SAS Contract. This material will be state furnished by the Department.

ABFJV understands that the lights poles are on-site; however, ABFJV has not formally received this material.

Based on WDC campus discussions, please confirm the following:

1. Confirm that the Department will compensate ABFJV for the purchase of the bolt assemblies for the light poles mounted on steel bases. Confirm that bolts shall be A307 (Ref Plan Sheet 145R1). Provide material grades for nuts and washers.
2. ABFJV has provided as-built survey information to the Department regarding the levelness of the steel light bases. Confirm that tapered shims are not required between the light bases and the light poles.
3. Confirm the grip length for the bolts located at the steel light bases will vary from 124mm to 165mm. The light base plate thickness varies from 64mm to 105mm (Ref Shop Drawing X337). The light pole base plate is 60mm (Ref Plan Sheet 145R1 (E-86). Consider installing threaded rod in lieu of bolts. If bolts are purchased, bolts with varying lengths will be installed at each bolt pattern location.
4. Confirm that the Department will compensate ABFJV for the purchase of the anchor bolts for the light poles mounted on the W2 cap. Confirm that bolts shall be carbon steel ASTM A354, Grade BC. (Ref Plan Sheet 905 R4) Advise if the bolts shall be plain or zinc coated. If zinc coated, advise if the zinc shall be mechanically coated or hot-dipped.
5. Confirm that the grip length of the anchor bolts in at the W2 cap will be 883mm (63 base plate + 70 grout + 750 embedment depth) (Ref Plan Sheet 905 R4)
6. ABFJV requests that the Department provides two sets of bolt templates for the anchor bolts cast in the light base at the W2 cap. Provide four steel plate templates, two for each location to sufficiently support the bolt pattern during concrete placement.
7. Advise if bolt caps shall be installed over the light pole anchor bolts in all locations.
8. Confirm that the Slip Joint Detail to secure the Light Poles to the Belvederes still applies. (Ref Plan Sheet 214R1). Confirm that tamper plates will be provided inside the Belvedere Light poles per Section C-C. Provide clarification which welds shall be performed in the field.
9. Confirm that the costs associated with above described work will be billable to CCO 43S1.

Contractor Disposition:

REQUEST FOR INFORMATION (RFI)

This RFI is being submitted for

The Cost and Time Impact from this RFI is: Not selected

Response:
Agreed Ext. Due Date:
Pages: 7
Pages Attached: 4

The State-furnished light poles for the SAS project are located on the Westbound Skyway. State Letter 11489, dated January 29, 2013, has been issued to formally notify the Contractor of the delivery of the State-furnished materials.

1. The furnishing of light poles was eliminated from the contract in CCO 43S1 and the poles are to be State Furnished. The change order was specific that only the light poles would be eliminated. There is no mention of the bolts being furnished with the poles. Bolts connecting the light poles to steel bases shall be ASTM A307 (galv) 57mm diameter, per Contract Sheet 145R1. Per Standard Specifications Section 75, the nuts shall be ASTM A563, including Appendix X1, and washers shall be ASTM F844. All bolts, nuts, and washers shall be hot-dipped galvanized. The bolts and nuts shall be furnished by the Contractor at no additional cost to the Department. The furnishing of the washers, as redlined in sheet 905R4, can be billed in CCO43S1.

2. The Department has surveyed the as-built levelness of the Luminaire Support Box top plates and verifies the magnitudes surveyed by the Contractor. The Special Provisions Section 10-3.14 specifies a plumbness tolerance of 75mm. Bevelled shim plates may be required to meet the contract specification.

3. The Contractor's bolt grip lengths are corrected herein. The steel light bases vary in thickness from 63mm to 107mm at the corners, but vary from 75mm to 95mm at the bolt locations. The pole base plate thickness is 70mm. Therefore, the bolt grip length varies from 145mm to 165mm. Due to the bevel in the top plate, beveled washers (or some other method) shall be employed to ensure proper bolt head bearing on the under-side of the support box top plate. Galvanized ASTM A307 threaded rod shall not be substituted for ASTM A307 bolts for bolts located at steel luminaire support boxes. It is acceptable to install ASTM A307 bolts with threads in the shear plane.

4. See response to #1 above. Anchor bolts for light poles mounted on the W2 cap shall be ASTM A354 Grade BC per Contract Sheet 905R4, zinc coated, hot-dipped, for corrosion protection. The nuts shall be ASTM A563 and washers shall be ASTM F436, all zinc coated, hot-dipped.

5. The length of the anchor bolts in the concrete luminaire support at W2, shown on Sheet 905R4, shall be such that they are embedded 750mm minimum in the concrete support (below the bottom surface of the non-shrink grout). The total bolt length shall account for the non-shrink grout layer (varying thickness), leveling nuts, pole base plate, washer, and double nuts on top. Note that the as-built pole base plate thickness is 70mm.

6. The bolt templates for the anchor bolts to be cast in concrete at W2 have been furnished to Bleyco.

7. Bolt caps shall be supplied but not installed.

8. The slip joint connection detail shown on contract plan sheet 214R1/1204 no longer applies. The base connection detail was changed to what is now shown on the approved shop drawings from Contract BATA #7 (Valmont drawings 29910P2 – 2 pages). Unmarked, unstamped drawings are attached for reference.

9. Additional cost associated with the furnishing of washers and for zinc coating the bolts, nuts & washers at

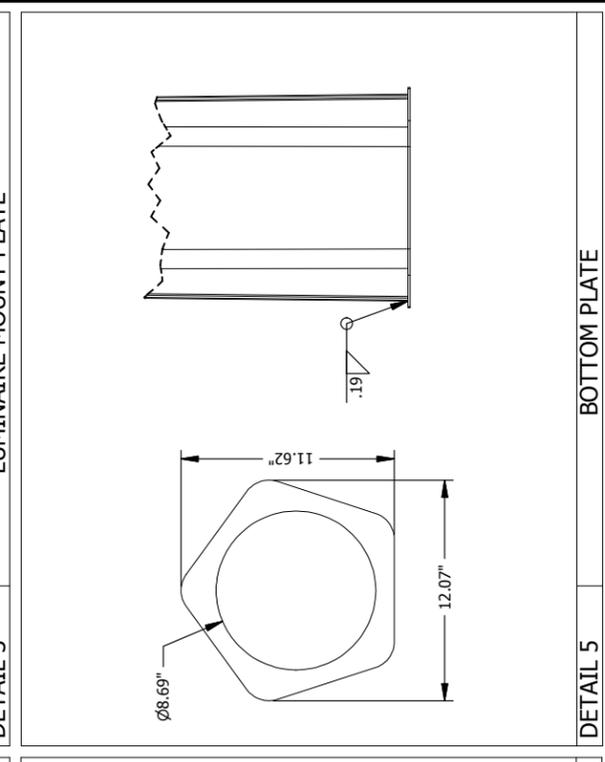
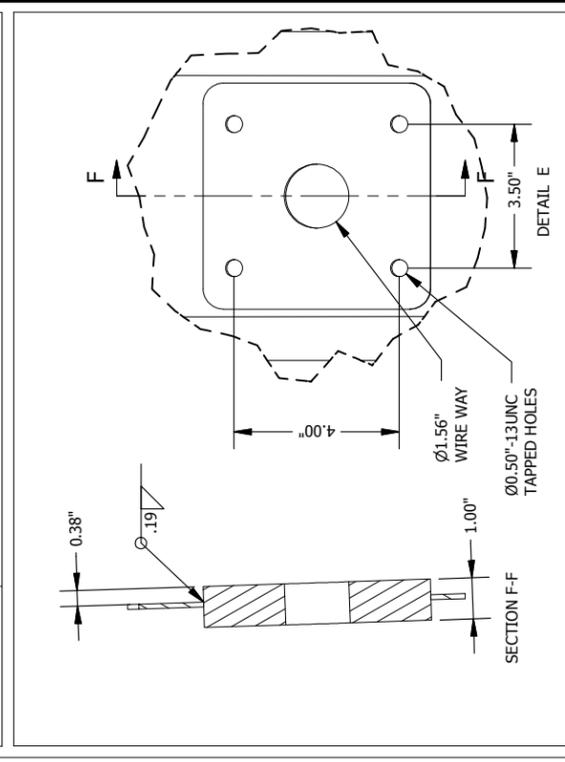
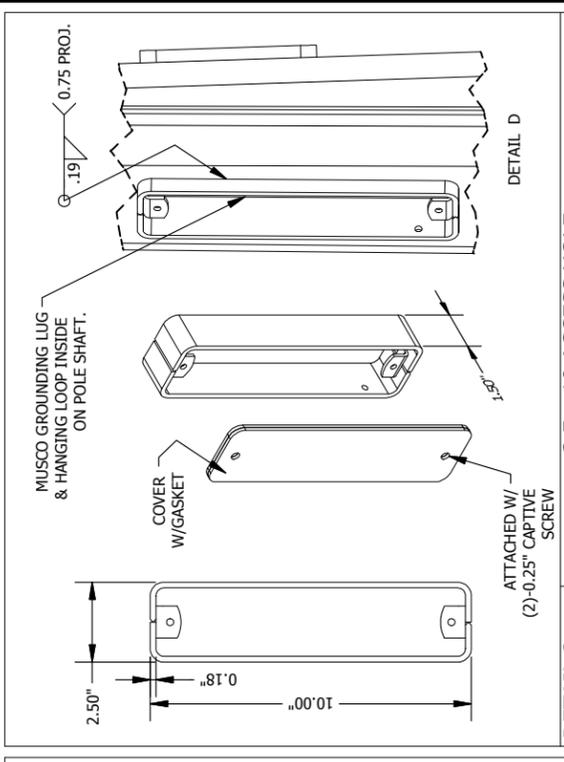
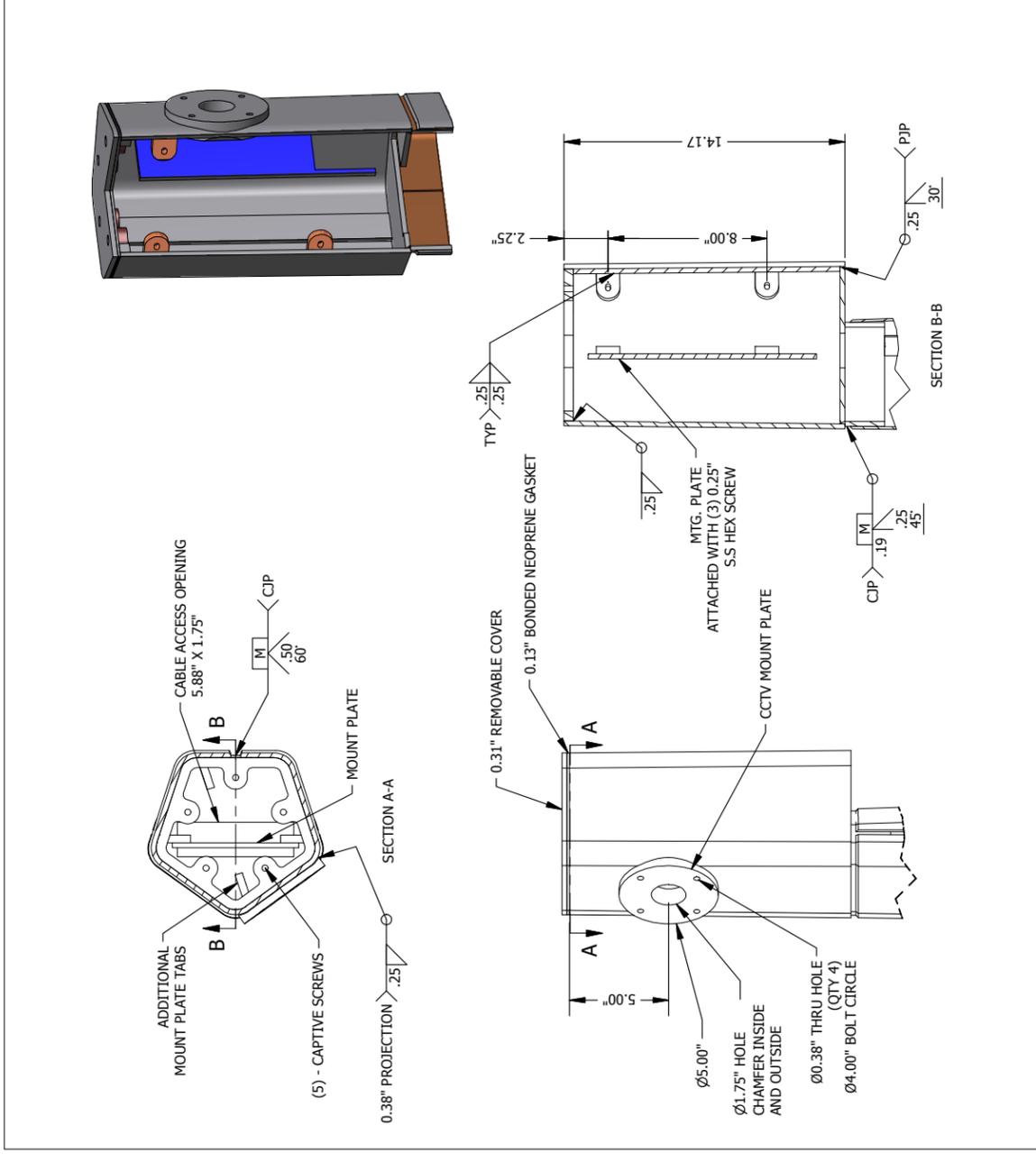
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W2 cap will be captured in CCO43S1.

Administrative Action:

Additional cost associated with the furnishing of washers and for zinc coating the bolts, nuts & washers at W2 cap will be captured in CCO43S1.

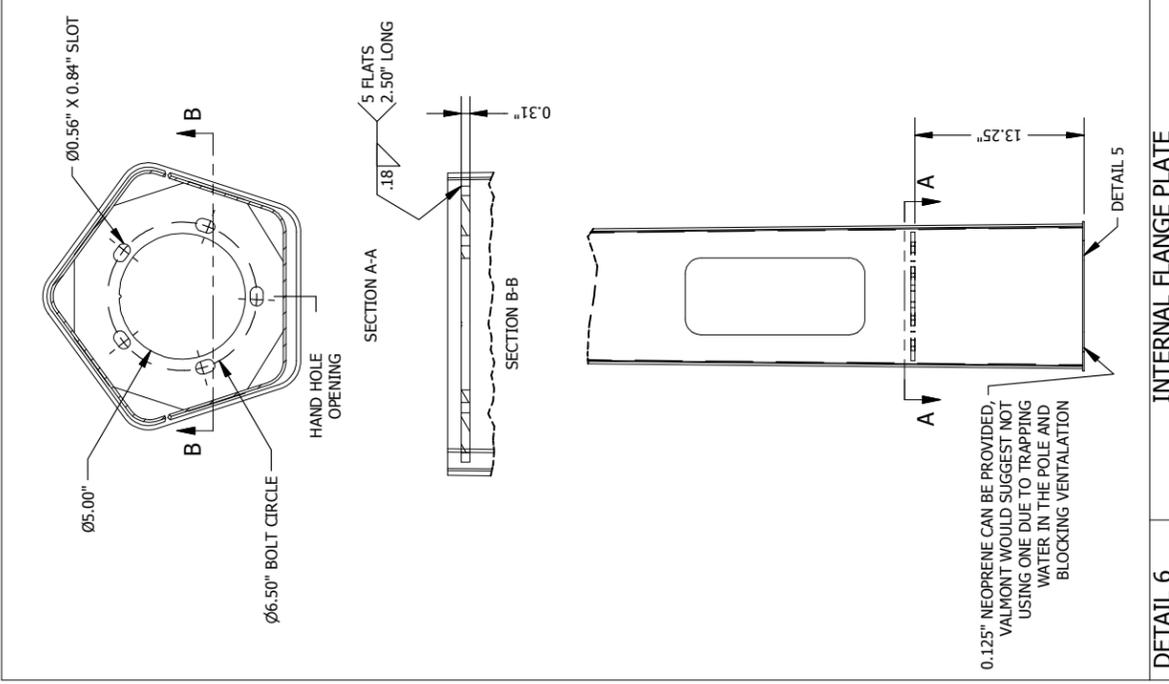
Date: 01-February-2013	Respondent: Chandrawinata, Martin	Phone No.: 510-286-0535
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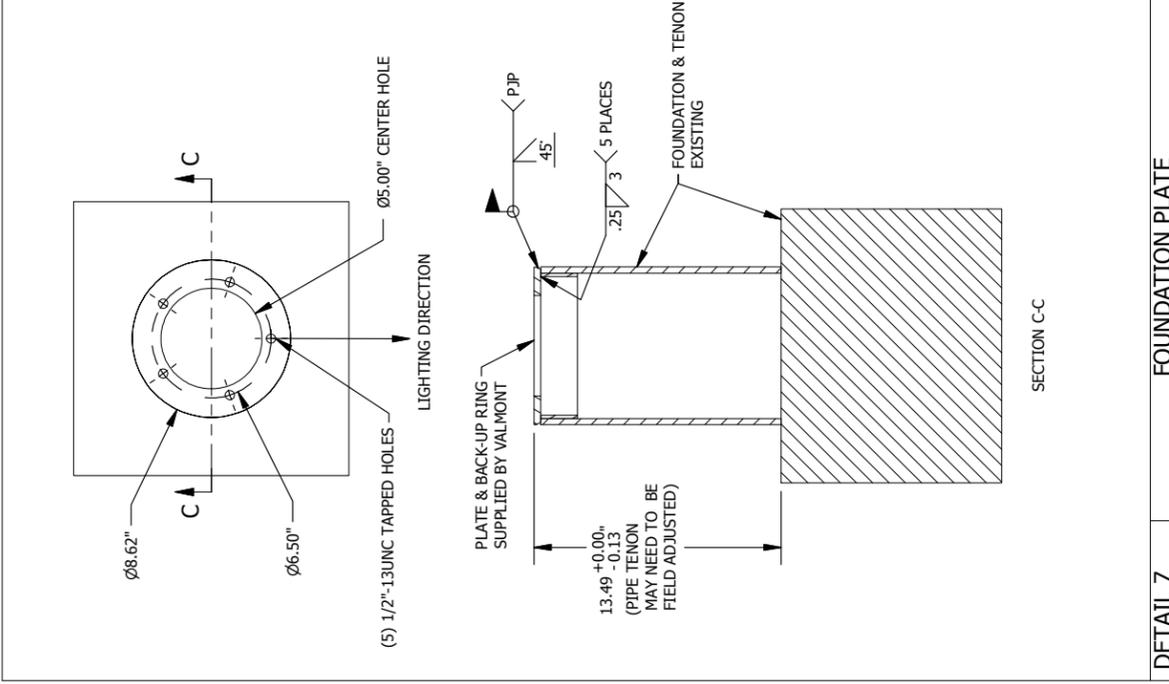
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REV	57

VALMONT INDUSTRIES, INC. RESERVES THE RIGHT TO INSTALL VARIOUS, ENGINEER APPROVED, MATERIAL HANGING ACCOMMODATIONS TO FACILITATE THE MANUFACTURING PROCESS.	
JOB	OAKLAND BAY BRIDGE
TITLE	3.5M BELVEDERE POLE LIGHTING STRUCTURES

SOLD TO:	UPDATED TENON ATTACHMENT WELD PER CUSTOMER
SHIP TO:	UPDATED PER CUSTOMER COMMENTS
P.O. #:	UPDATED DRAWING PER COMMENTS
AGENT:	CHECK BY-DATE
REV	DESCRIPTION



DETAIL 6



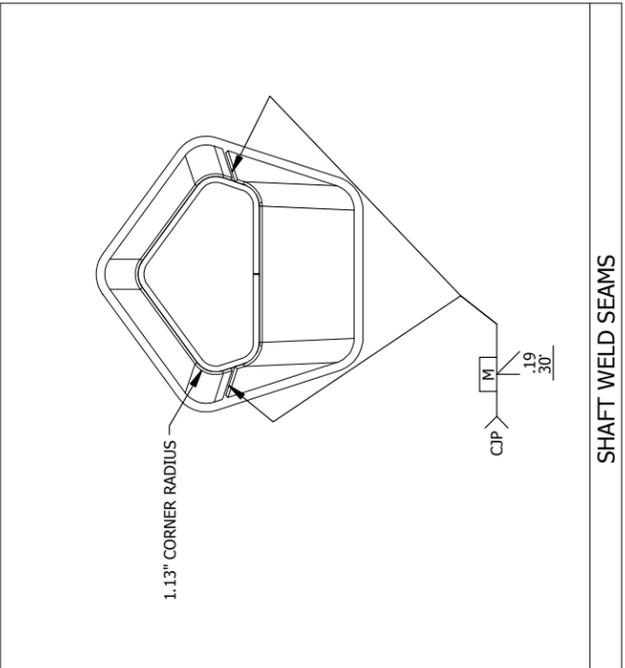
DETAIL 7

MATERIAL DATA

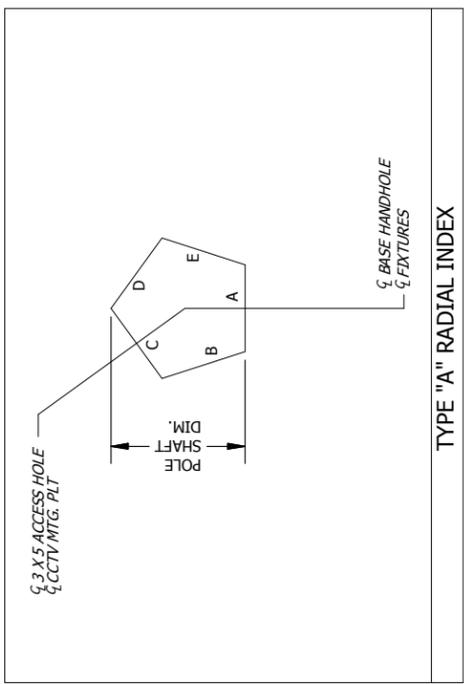
COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)
POLE SHAFTS	A572	55 OR GREATER
BASE HANDHOLE RIM	A572 GR.50	50
HANDHOLE COVERS	ALUMINUM	
BACK-UP RINGS	A36	36
MOUNTING BRACKETS	A36	36
MOUNTING PLATES	A36	36
GALVANIZING-STRUCTURE/HDR	A123/A153	36

FINISH DATA

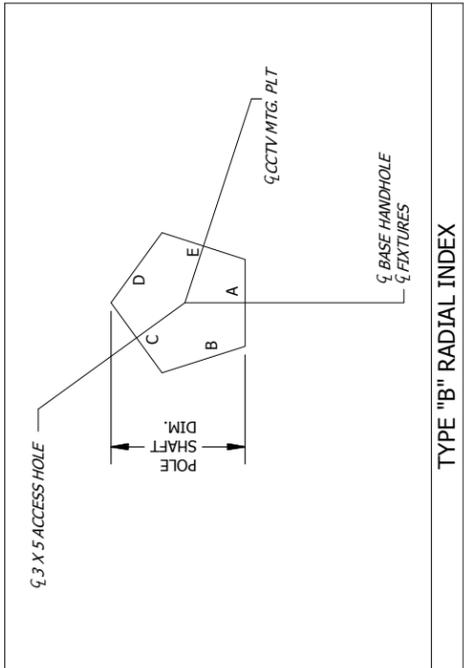
- GALVANIZED TO ASTM-123
- BRUSH BLAST TO SSPC-SP7 AND SP3
- SOLVENT WIPE REMOVING FOREIGN MATERIAL
- PRE-HEAT TO 100° F FOR ONE HOUR
- PRIME COAT WITH 2.5 MILS DFT MINIMUM TNE MEC SERIES 90-97
- ZINC RICH AROMATIC URETHANE
- TOP COAT WITH 4.0 MILS DFT MINIMUM TNE MEC SERIES 750
- POLYFUNCTIONAL HYBRID URETHANE
- VALMONT SPEC: F-621A
- COLOR: WHITE



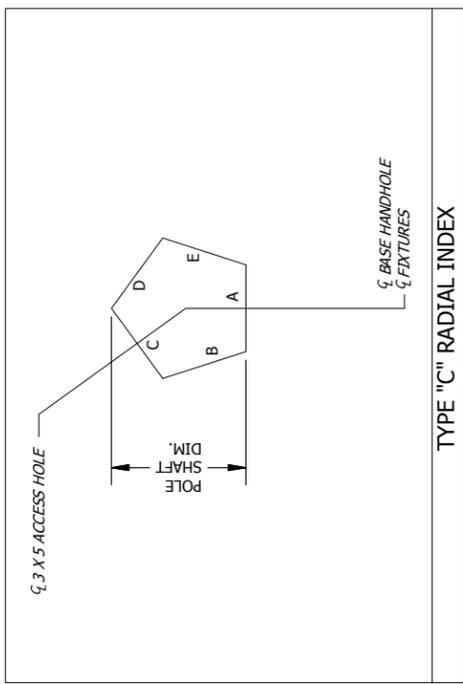
SHAFT WELD SEAMS



TYPE "A" RADIAL INDEX



TYPE "B" RADIAL INDEX



TYPE "C" RADIAL INDEX

POLE DATA

ITEM	POLE HEIGHT (FT)	TOP BOX HEIGHT (FT)	POLE SHAFT			BASEPLATE			TOS/MWDS MTG. HEIGHT (FT)	TOS/CCTV MTG. HEIGHT (FT)	TOS/MWDS MTG. HEIGHT (FT)	
			BASE DIM. (IN)	TOP DIM. (IN)	LENGTH (FT)	GAUGE OR THK. (IN)	WIDTH (IN)	GAUGE OR THK. (IN)				CCTV MTG. HEIGHT (FT)
3.5M	11.51	1.18	TB	8.73	8.45	1.18	0.25	11.69	11 GA.	11.10	X	X
			A	11.13	5.79	10.30	11 GA.					

JOB OAKLAND BAY BRIDGE
3.5M BELVEDERE POLE
TITLE LIGHTING STRUCTURES

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