BASE TABLE				
ADAPTOR TYPE	ANCHOR BOLT (IN) ⟨1⟩	BOLT CIRCLE DIAMETER (IN) "BC" ⟨2⟩	EXISTING BASE TYPE	LUMINAIRE HEIGHT (± 2' - 6")
A-1	1"	11"	WELDED PLATE	⟨3⟩
A-2	1"	12 1/4"	CAST ALUMINUM	⟨3⟩
A-3	1"	12 3/4"	STEEL TRANSFORMER	⟨3⟩
A-4	1 1/8"	14 1/8"	2-PC. ALUM. CLAMP	⟨4⟩
A-5	1 1/4"	14 1/8"	2-PC. ALUM. CLAMP	40'

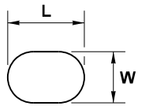
⟨1⟩ USE MATCHING DIAMETER FOR THREADED STUDS.

⟨2⟩ CONTRACTOR SHALL VERIFY BOLT CIRCLE "BC" IN THE FIELD BEFORE ORDERING. IF "BC" OR ANCHOR BOLT SIZES DIFFER FROM THOSE LISTED, CONTACT HQ BRIDGE AND STRUCTURES OFFICE.

⟨3⟩ 40' (FT) LUMINAIRE W/ 1 x 16' (FT) (MAX.) MAST ARM OR 35' (FT) LUMINAIRE W/ 2 x 16' (FT) MAST ARMS.

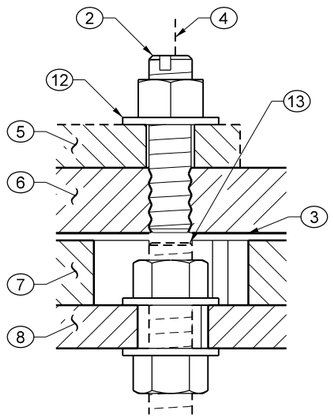
⟨4⟩ 50' (FT) LUMINAIRE W/ 1 x 16' (FT) (MAX.) MAST ARM OR 40' (FT) LUMINAIRE W/ 2 x 16' (FT) MAST ARMS - TOTAL WEIGHT 1000 LBS (MAX.).

DRAWN BY: COLBY FLETCHER



ANCHOR PLATE SLOT DETAIL

ANCHOR PLATE SLOT TABLE		
ANCHOR BOLT DIAMETER (IN)	SIZE W (IN)	SIZE L (IN)
1"	1 1/4"	2"
1 1/8"	1 1/4"	2"
1 1/4"	1 1/2"	2 1/4"



DETAIL (A)

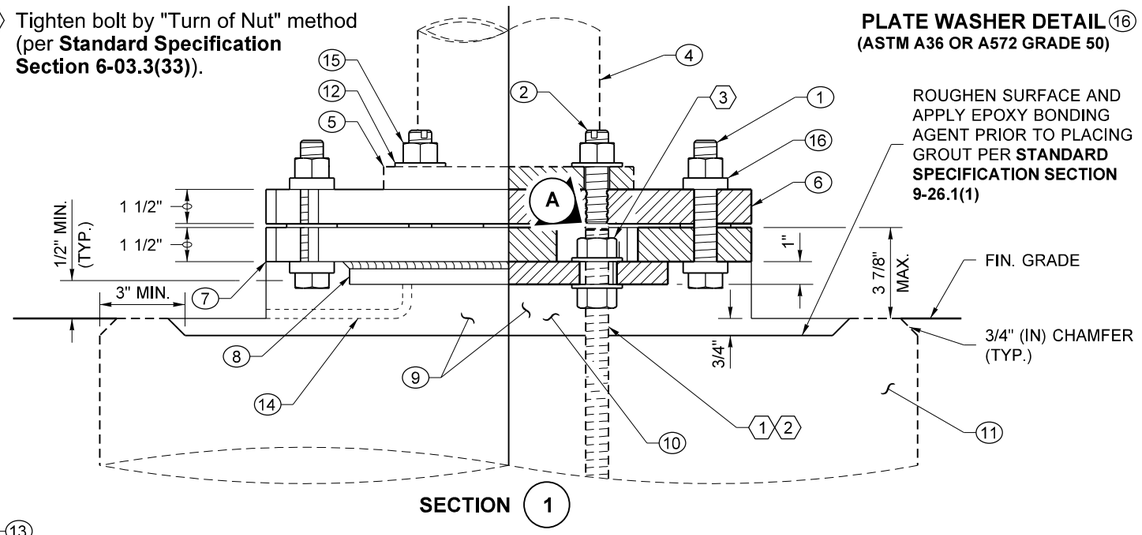
(TYP. OF FOUR PLACES)

CONSTRUCTION NOTES

⟨1⟩ Wire brush existing threads.

⟨2⟩ Apply two coats of galvanizing paint (per **Standard Specification Section 9-08.1(2)B**).

⟨3⟩ Tighten bolt by "Turn of Nut" method (per **Standard Specification Section 6-03.3(33)**).



SECTION (1)

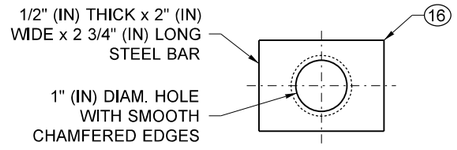
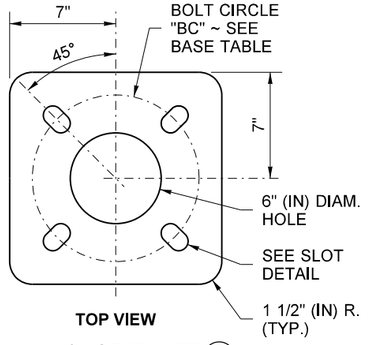


PLATE WASHER DETAIL (16)
(ASTM A36 OR A572 GRADE 50)



TOP VIEW

ANCHOR PLATE (8)

KEY

(1) CLAMPING BOLTS, 7/8" (IN) DIAM. HEX HEAD BOLT AND NUT, TWO PLATE WASHERS, ONE HARDENED ROUND WASHER, 87 FT-LBS TORQUE (THREE CLAMPING BOLT ASSEMBLIES PER SLIP BASE) (**PER ASTM F3125 GRADE A325**)

(2) THREADED SLOTTED STUD ~ SEE BASE TABLE FOR DIAMETER, HARDENED WASHER, AND HEAVY HEX NUT (FOUR PER BASE PLATE) INSERT STUD AND CENTER PUNCH AT BOTTOM PERIPHERY TO LOCK TAPPED STUD IN PLACE PRIOR TO GALVANIZING (**PER ASTM F1554 GRADE 105**)

(3) KEEPER PLATE ~ 0.0149" (IN) 28 GAGE PLATE (**PER ASTM A653 COATING DESIGNATION G90**)

(4) POLE WALL (EXISTING)

(5) POLE BASE PLATE (EXISTING)

(6) TOP SLIP PLATE (**PER ASTM A572 GR. 50 OR A588**)

(7) BOTTOM SLIP PLATE (**PER ASTM A572 GR. 50 OR A588**)

(8) ANCHOR PLATE (**PER ASTM A572 GR. 50 OR A588**)

(9) REMOVE GROUT (EXISTING WITH DRAIN)

(10) NEW GROUT PAD WITH DRAIN

(11) FOUNDATION (EXISTING)

(12) HARDENED WASHER (**PER ASTM F436**)

(13) ANCHOR BOLT (EXISTING) ~ TRIM TO CLEAR SLIP PLATE BY 1/8" (IN) MIN.

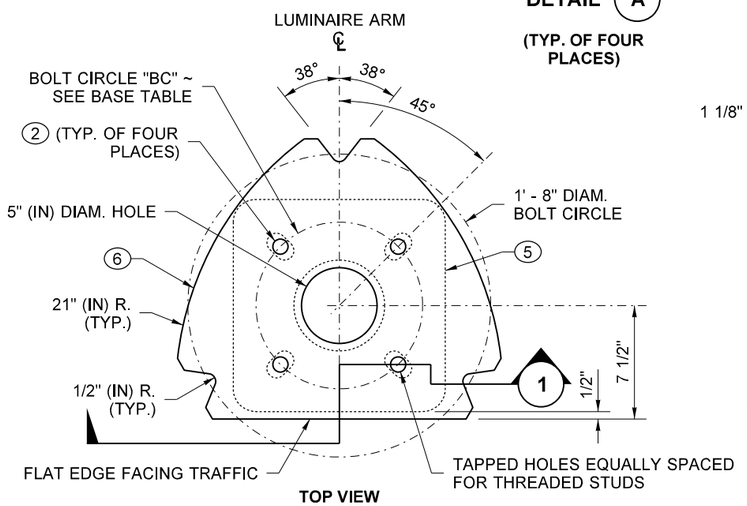
(14) 3/8" (IN) DIAM DRAIN TUBE (PER **STANDARD SPECIFICATION SECTION 9-29.2(3)**)

(15) HEAVY HEX NUT (TYP.) (**PER ASTM A563 GRADE DH**)

(16) PLATE WASHER (**ASTM A36**)

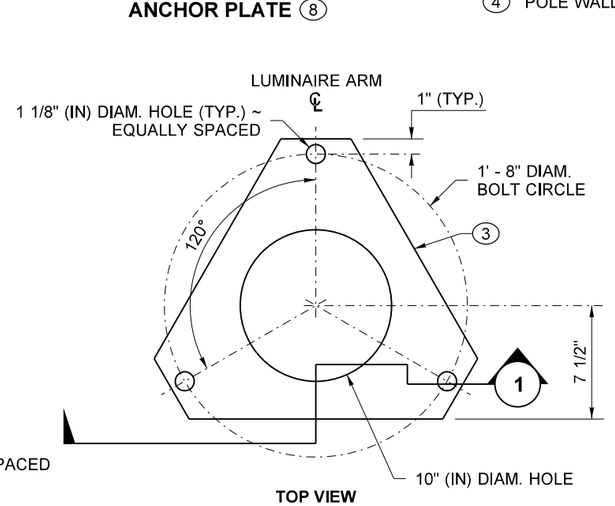
NOTES

1. The purpose of this plan is to provide the details for retrofitting a 4-bolt frangible base with a slip base assembly.
2. Existing anchor bolts shall be inspected for corrosion, thread damage, and galvanizing. To minimize galvanic corrosion between dissimilar metals, ensure galvanizing remains intact while installing aluminum luminaire.
3. After bolting the bottom slip plate assembly to the foundation, fill the slotted bolt holes with mastic per **Standard Specification Section 9-08.7**.
4. Grade around the foundation to ensure the stub height does not exceed 3 7/8" (in). For grading requirements, see **Standard Plan J-28.22**.
5. Removal of the frangible base from the existing base plate is required.
6. Misaligned anchor bolts shall be removed and replaced.
7. This adaptor shall be used only on luminaire poles that contain a handhole. Replace standards and foundation when the handhole is located in the frangible base.
8. Galvanize the anchor plate, bottom slip plate, and top slip plate after fabrication according to **ASTM A123**.
9. Galvanize all hardware according to **ASTM F2329**.



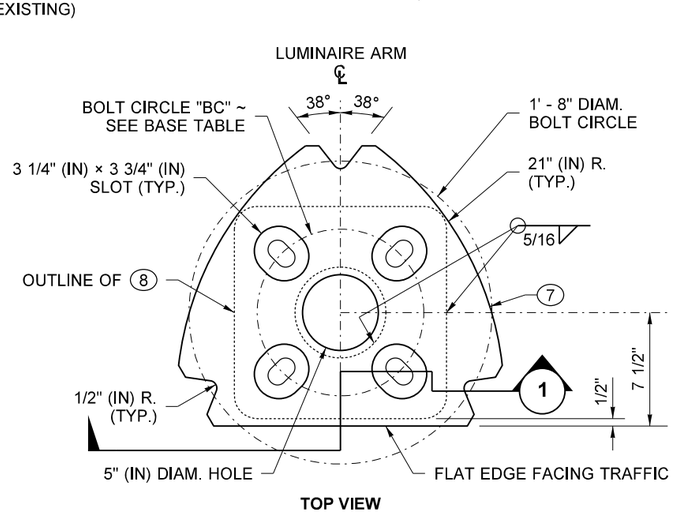
TOP VIEW

TOP SLIP PLATE (6)



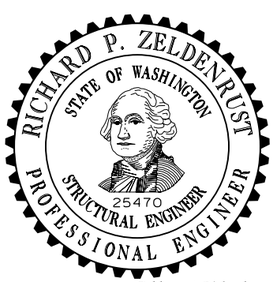
TOP VIEW

KEEPER PLATE (3)



TOP VIEW

BOTTOM SLIP PLATE (7)



Zeldenrust, Richard
Jun 26 2018 3:57 PM

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SLIP BASE ADAPTOR FOR 4-BOLT LIGHT STANDARD BASE STANDARD PLAN J-28.43-01

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
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Jun 28 2018 10:31 AM
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