GENERAL NOTES

- 1. Shop Drawings: This Index is considered fully detailed, only submit shop drawings for minor modifications not detailed in the Plans.
- 2. Prior to Fabrication: Verify the installed foundation elevation will result in the required signal elevation and adjust the Pole height as needed.
- 3. Details for Signal and Sign locations, Signal Head attachment, Sign attachment, Pedestrian Head attachment, and Foundation Conduit are not shown for simplicity.
- 4. Materials:
 - A. Poles, Mast Arms and Backing Rings:
 - a. Less than ¾₁₆": ASTM A1011 Grade 50, 55, 60 or 65
 - b. Greater than or equal to $\frac{3}{16}$ ": ASTM A572 Grade 50, 55, 60 or 65
 - c. ASTM A595 Grade A (55 ksi yield) or Grade B (60 ksi yield)
 - B. Steel Plates: ASTM A36
 - C. Weld Metal: E70XX
 - D. Bolts, Nuts and Washers:
 - a. High Strength Bolts: ASTM F3125, Grade A325, Type 1
 - b. Nuts: ASTM A563 DH Heavy-Hex
 - c. Washers: ASTM F436 Type 1, one under turned element
 - E. Anchor Bolts, Nuts and Washers:
 - a. Anchor Bolts: ASTM F1554 Grade 55
 - b. Nuts: ASTM A563 Grade A Heavy-Hex (5 per anchor bolt)
 - c. Plate Washers: ASTM A36 (2 per bolt)
 - F. Threaded Bars/Studs: ASTM A36 or ASTM A307
 - G. Handhole Frame: ASTM A709 or ASTM A36, Grade 36
 - H. Handhole Cover: ASTM A1011 Grade 50, 55, 60 or 65
 - I. Aluminum Pole Caps and Nut Covers: ASTM B26 (319-F)
 - J. Stainless Steel Screws: AISI Type 316
 - K. Concrete: Class IV (Drilled Shaft) for all environmental classifications.
 - L. Reinforcing Steel: Specification 415

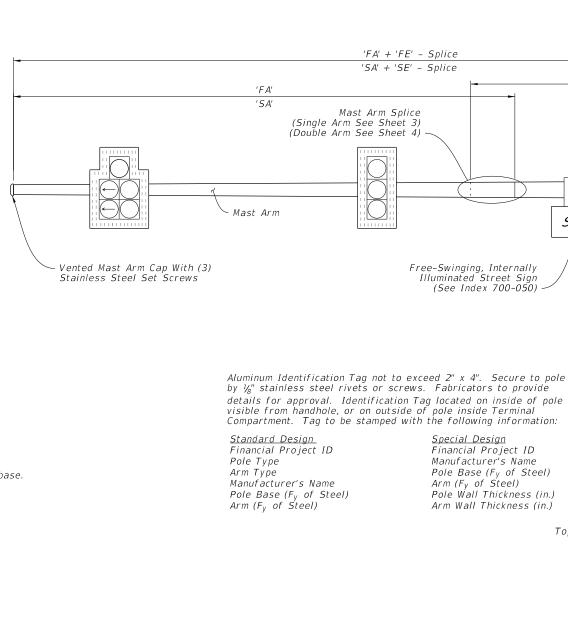
5. Fabrication:

- A. Pole and Mast Arm Taper: Change diameter at a rate of 0.14 inches per foot.
- B. Upright splices are not allowed. Transverse welds are only permitted at the base.
- C. First and Second arm camber angle = 2°
- D. Provide bolt hole diameters as follows:
 - a. Bolts (except Anchor Bolts): Bolt diameter plus 1/16", prior to galvanizing.
 - b. Anchor Bolts: Bolt diameter plus 1/2" (Max.)
- E. Face handhole perpendicular from arm on single arm poles, perpendicular from first arm of double arm poles facing away from traffic or see special instructions on the Mast Arm Tabulation Sheet.
- F. Seam weld on bottom side of arm. Seam weld under Arm 1 side of pole.
- G. Provide a 'J' or 'C' hook at the top of the pole for signal wiring support (See Sheet 6).
- H. Perform all welding in accordance with Specification 460-6.4.
- I. Hot Dip Galvanize after fabrication.

6. Coatings:

- A. All Nuts, Bolts, Washers and Threaded Bars/Studs: ASTM F2329
- B. All other steel items ASTM A123

- A. Foundation: Specification 455 Drilled Shaft, except that payment is included in the cost of the Mast Arm.
- B. Install Pole vertically.
- C. Place structural grout pad with drain between top of foundation and bottom of baseplate in accordance with Specification 649-7.
- D. Attach Sign Panels and Signals centered on the elevation of the Mast Arm.
- E. Wire Access holes are 11/2" or less in diameter.



Special Design	
Financial Project ID	
Manufacturer's Name	
Pole Base (Fy of Steel)
Arm (F_V of $Steel$)	
Pole Wall Thickness (in	١.,
Arm Wall Thickness (in	.)

Free-Swinging, Internally Illuminated Street Sign

(See Index 700-050)

'FA' + 'FE' - Splice

'SA' + 'SE' - Splice

Mast Arm Splice

(Single Arm See Sheet 3) (Double Arm See Sheet 4)

Special Design

(See Pole UB' Handhole (See Sheet 6) Base Plate Connection (See Sheet 2) Bottom Top of Finished Grade Of Plate O" With Sidewalk 6" Otherwise Signal Conduit 1~2" Conduit Per Assembly (For No. & Size 1~1" Additional Conduit in See Signal Plans) Quadrant With Controller Foundation (Drilled Shaft) (See Sheet 2)

Face Of Arm Base Plate At G Arm -

Pole Connection

0.14 in/ft Taper (Typ.)

Mast Arm

Extension

(Single Arm See Sheet 3)

(Double Arm See Sheet 4)

Provide 1/2" Ø Weep Hole

Located At Bottom Of Arm.

1'-0" From Arm Base Plate.

'FE'

'SE'

Street Name

€ Pole

Pole Top

Mast Arm

Handhole

Plans) (See

(See Sheet 6)

(See Sheet 6)

'F0'

'S0'

Single Arm Shown, Double Arm Similar (Luminaire Arm Not Shown)

 \equiv MAST ARM ASSEMBLY \equiv

ELEVATION AND NOTES

REVISION 11/01/17

FDOT

FY 2018-19 STANDARD PLANS

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SHEET NO. SUBJECT

Elevation and Notes

Foundation and Base Plate Details

Handhole and Pole Top Details

Single Arm Connection and Splice Details

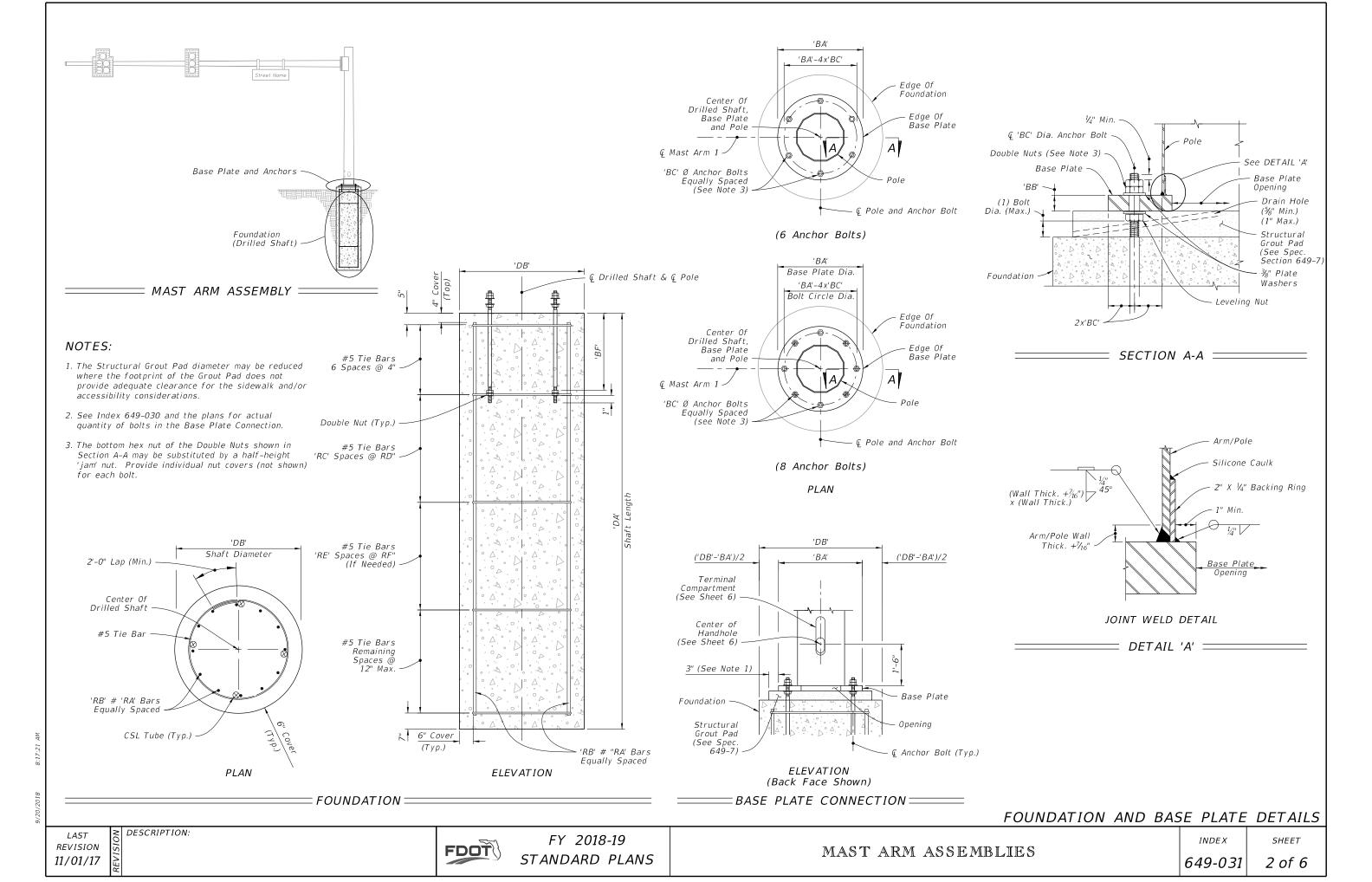
Double Arm Connection and Splice Details Luminaire Arm and Connection Details

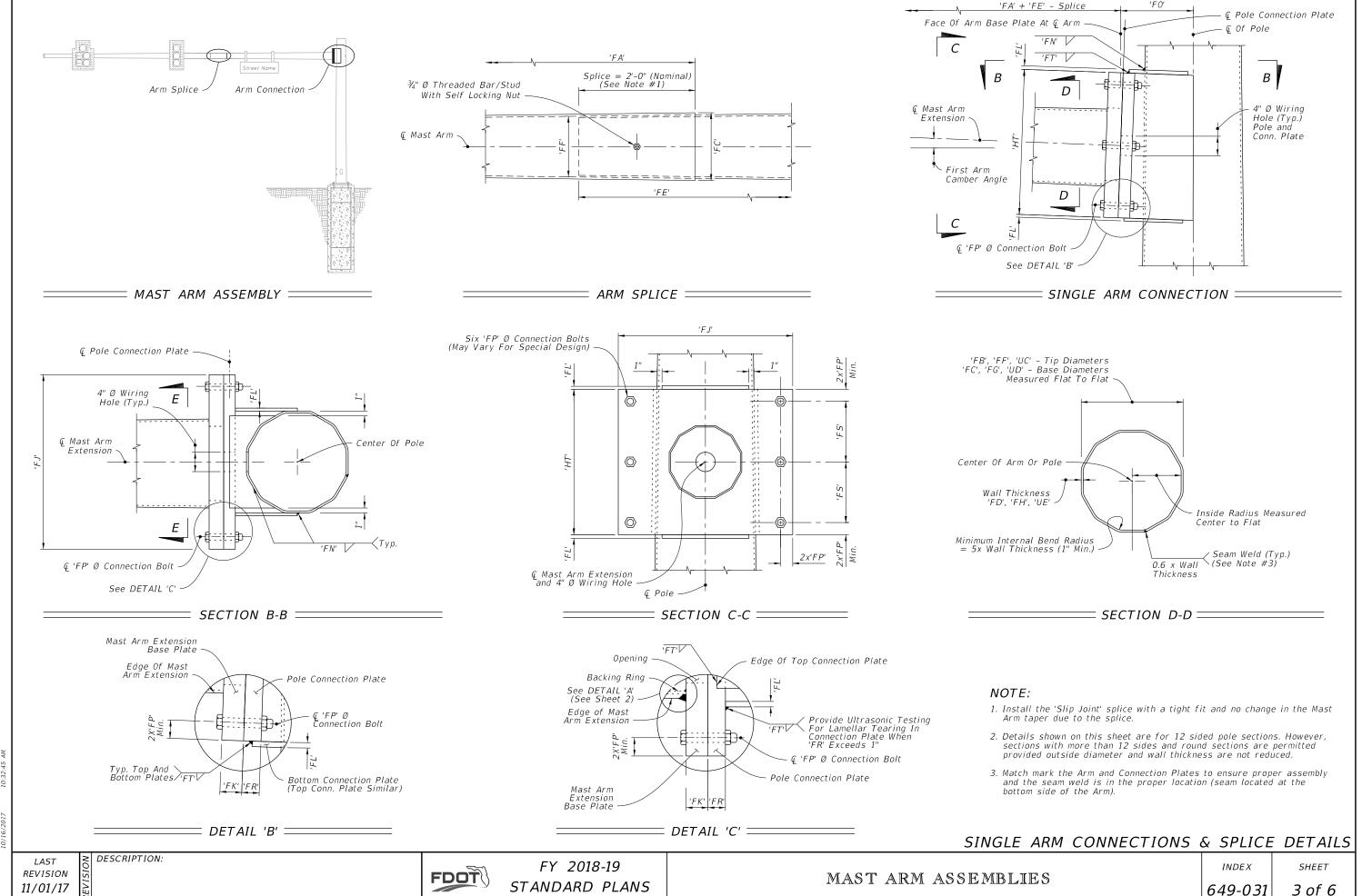
MAST ARM ASSEMBLIES

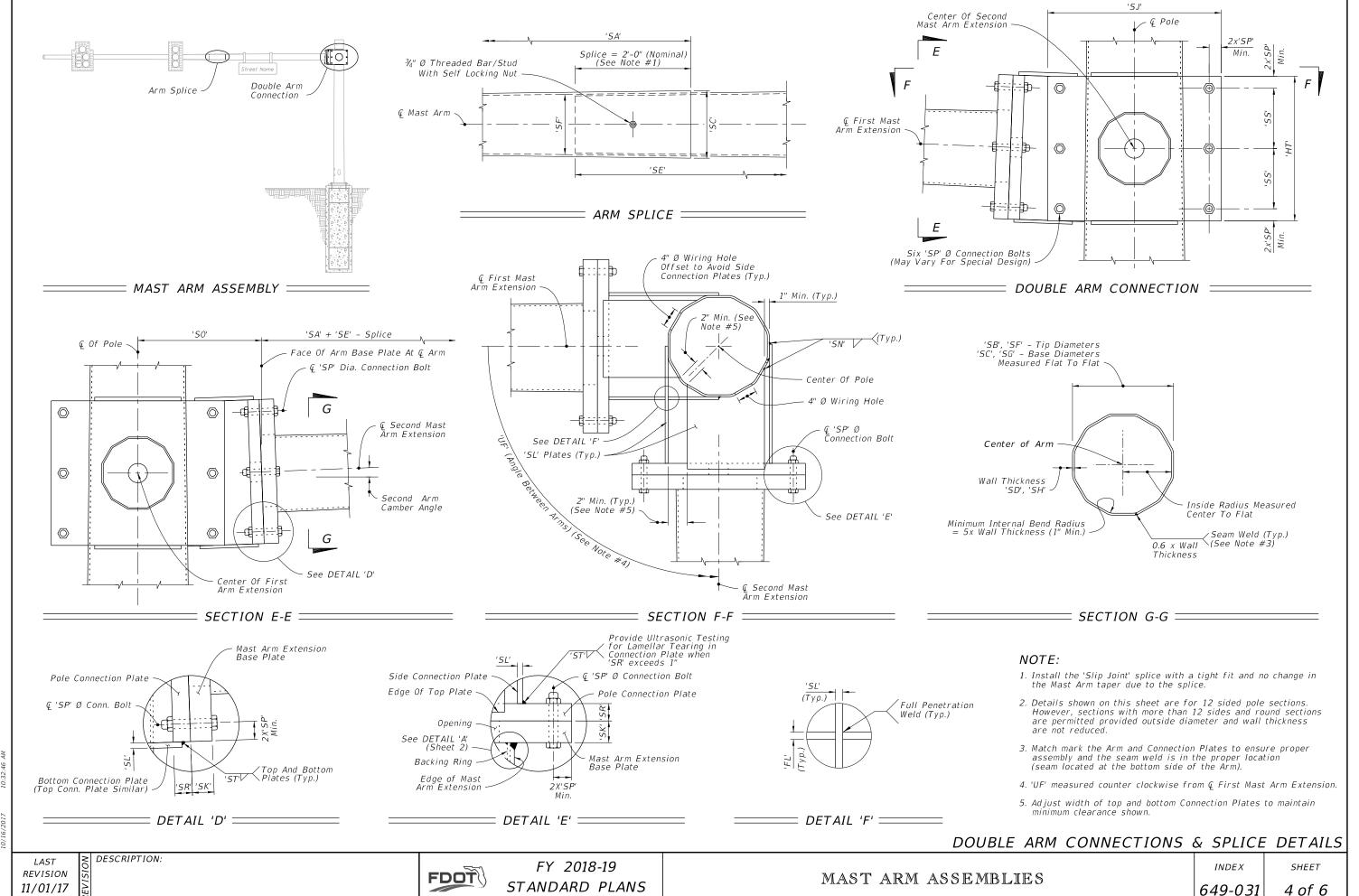
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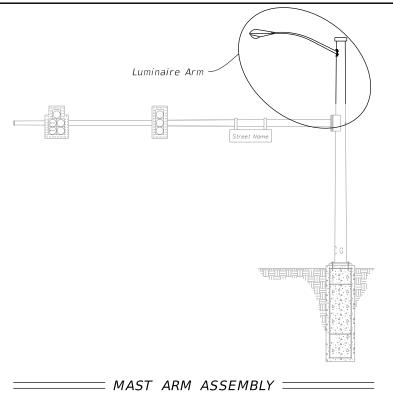
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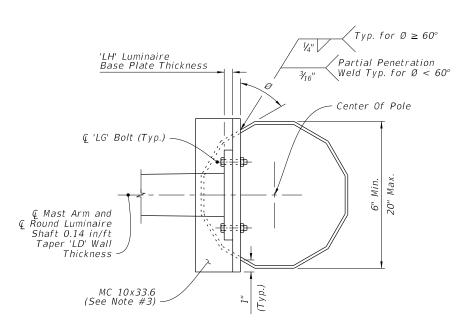


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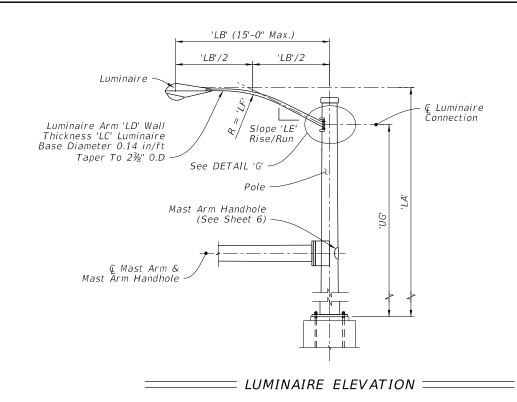


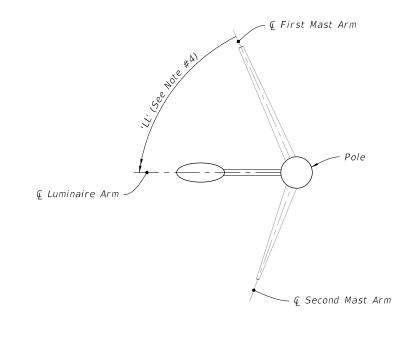
NOTES:

- 1. Luminaire type and luminaire length may be found in the Lighting Plans.
- 2. Align Luminaire Arm with Single Mast Arm or First Arm of Double Mast Arm unless indicated otherwise in the plans.
- 3. The fabricator may substitute a $\frac{1}{2}$ " thick bent plate with the same flange width, height, and length as the MC 10x33.6 Channel section.
- 4. 'LL' measure counter clockwise from First Mast Arm.

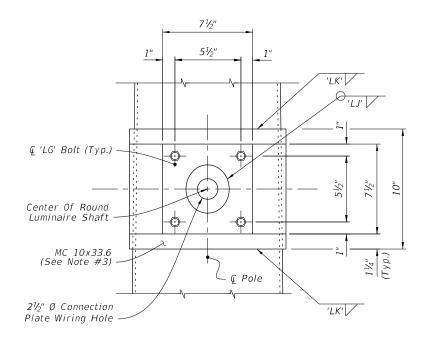


= SECTION H-H =

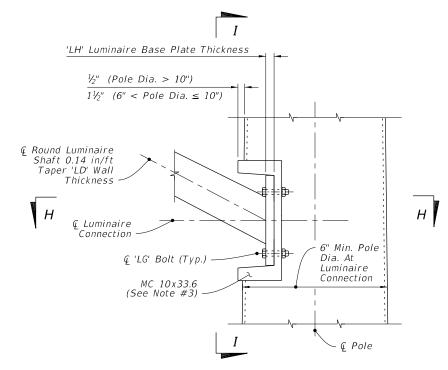




 \equiv LUMINAIRE ORIENTATION \equiv



= SECTION I-I =



LUMINAIRE CONNECTION ELEVATION

= DETAIL 'G' =====

LUMINAIRE ARM AND CONNECTION DETAILS

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DESCRIPTION:

FDOT

FY 2018-19 STANDARD PLANS

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MAST ARM ASSEMBLIES

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