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.


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:
      - Bolts (except Anchor Bolts): Bolt diameter plus 1/4".
      - Anchor Bolts: Bolt diameter plus 3/16" (Max).
   e. Locate handhole 90° from arm on single arm poles or 90° from first arm of double arm poles facing away from traffic or see special instructions on the Mast Arm Splice Tabulation Sheet.
   f. Provide a φ 0.14 inch Tap (Typ).
   g. Provide ½" Ø Weep hole Located at Bottom Of Arm. 1'-0" From Arm Base Plate.
   h. Hot Dip Galvanize after fabrication.
   i. Perform all welding in accordance with Specification Section 460-6.4.
   j. Reinforcing Steel: Specification Section 415

6. Coatings:

7. Construction:

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ELEVATION AND NOTES

LAST REVISION 07/01/15

FA 2016-17 DESIGN STANDARDS

MAST ARM ASSEMBLIES

INDEX NO. 17745

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NOTES:

1. The Structural Grout Pad diameter may be reduced where the footprint of the Grout Pad does not provide adequate clearance for the sidewalk and/or accessibility considerations.

2. See Index No. 17743 and the plans for actual quantity of bolts.

3. The top hex nut may be substituted by a half-height "jam" nut. Provide individual nut covers (not shown) for each bolt.

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2. See Index No. 17743 and the plans for actual
3. The top hex nut may be substituted by a half-height "jam" nut. Provide individual nut covers (not shown) for each bolt.

SECTION A-A

DETAIL 'A'

JOINT WELD DETAIL

DETAIL 'A'

FOUNDATION

BASE PLATE CONNECTION

FOUNDATION AND BASE PLATE DETAILS

FY 2016-17

DESIGN STANDARDS

MAST ARM ASSEMBLIES

INDEX

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REV

01/01/16

DESCRIPTION:

LAST

REV

01/01/16

Mast Arm Assemblies

Base Plate and Anchors

Foundation (Drilled Shafts)
Section B-B

- Mast Arm Extension Base Plate
- Edge of Mast Arm Extension

Section C-C

- Pole Connection Plate
- Edge of Top Connection Plate
- Opening
- Backing Ring

Section D-D

- Face of Arm Base Plate
- Edge of Mast Arm Extension

Detail B

- 4" Ø Wiring Hole (Typ.)
- Pole Connection Plate

Detail C

- 4" Ø Wiring Hole (Typ.)
- Pole Connection Plate

NOTE:
1. Install the 'Slip Joint' splice with a tight fit and no change in the Mast Arm taper due to the splice.
2. Details shown on this sheet are for 12 sided pole sections. However, sections with more than 12 sides and round sections are permitted provided outside diameter and wall thickness are not reduced.
3. Match mark the Arm and Connection Plates to ensure proper assembly.
DOUBLE ARM CONNECTIONS & SPLICE DETAILS

Mast Arm Assemblies

Date: 07/01/15

NOTE:
1. Install the 'Slip Joint' splice with a tight fit and no change in the Mast Arm taper due to the splice.
2. Details shown on this sheet are for 12 sided pole sections. However, sections with more than 12 sides and round sections are permitted provided outside diameter and wall thickness are not reduced.
3. Match mark the Arm and Connection Plates to ensure proper assembly.
4. ‘UF’ measured counter clockwise from ‘First Mast Arm Extension’.
5. ‘SJ’ measured flat to flat (See Note #5).
6. Adjust width of top and bottom Connection Plates to maintain minimum clearance shown.

DOUBLE ARM CONNECTION

MAST ARM ASSEMBLY

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MAST ARM ASSEMBLY

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4. ‘UF’ measured counter clockwise from ‘First Mast Arm Extension’.
5. ‘SJ’ measured flat to flat (See Note #5).
6. Adjust width of top and bottom Connection Plates to maintain minimum clearance shown.
**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 1/4" thick bent plate with the same flange width, height, and length as the MC 10x33.6 Channel section.

4. "L" measure counter clockwise from First Mast Arm.
NOTES:
1. Handhole covers may be omitted when Terminal Compartment is provided.
2. Terminal Compartment is optional. See Mast Arm Tabulation to see if required for locations.
3. Terminal Compartment Frame Height 2'-0" minimum to 2'-6" maximum. Align bottom of Terminal Compartment a minimum of 1" below the bottom of the Handhole Frame.
4. Any combination of Option 'a' or 'b' may be used, provided both lifting and wiring is accommodated.

POLE TOP DETAILS

MAST ARM ASSEMBLY

COVER

FRAME

SECTION J-J

HANDHOLE

SECTION K-K (Thru Handhole)

SECTION K-K (Terminal Compartment)

HANDBOARD AND POLE TOP DETAILS

MAST ARM ASSEMBLIES

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