Origination Form Proposed Revisions to a Standard Plans Index

Originator:	Stepp, Richard; Turley, Josh	Index Number:	715-002
Date:	2/6/2024	Sheet Number(s):	All Sheets
E-mail:	Joshua.Turley@dot.state.fl.us	Index Title:	Standard Aluminum Lighting

Summary of the changes:

All Sheets: General redevelopment to use the latest CADD standards, with all details drawn to scale.

Sheet 1: Added Table of Contents

Sheet 2: Replaced High Pressure Sodium light fixture graphic with an LED light fixture; Added single-arm and pole top mounted option for Median Barrier Mounted Light Poles (in text under Elevation view label).

Sheets 3: Replaced High Pressure Sodium light fixture graphic with an LED light fixture

Sheet 4: Removed unneeded "Arm Lengths" text from the Top Mount Pole Table.

Sheet 5: Added "Cast-in-Place Type II Concrete" label to Section A-A Spread Footing.

Sheet 6: Updated anchor bolt labels in Detail A; Updated Note 2 language and corrected which nut may be half height.

Commentary/Background:

Sheet 6: There is an associated Spec change being drafted for Section 649 that pertains to process for tightening the anchor bolts. These changes make it so that the language aligns between the Spec and the Standard

Other Affected Documents/Offices	Person Contacted	Affected (Yes/No)
Other Standard Plans		No
FDOT Design Manual		No
Standard Specifications	Daniel Strickland	Yes
Basis of Estimates Manual		No
Approved Product List		No
Construction Office		No
Maintenance Office		No

Implementation	
["FY-Standard Plans (Next Release)"]	

ADDED TABLE OF CONTENTS

GENERAL NOTES:

- 1. Poles are designed to support the following: A. Luminaire Effective Projected Area (EPA): 1.55 SF
- 2. Shop Drawings: This Index is considered fully detailed, only submit shop drawings for minor modifications not
- 3. Materials:
- A. Pole, Pole Connection Extrusions and Arm Extrusions: ASTM B221, Alloy 6063-T6 or Alloy 6061-T6
- B. Bars, Plates, Stiffeners and Backer Ring: ASTM B221, Alloy 6063-T6
- C. Caps and Covers: ASTM B-26, Alloy 319-F
- D. Steel Bearing Plate: ASTM A709 or ASTM A36 Grade 36 E. Aluminum Weld Material: ER 4043
- . Transformer and Frangible Base Materials: ASTM B26 or ASTM B108, Alloy 356-T6
- G. Bolts, Nuts and Washers:
 a. Shoe Base Bolts: ASTM F3125, Grade A325, Type 1
 b. Nuts: ASTM A563 Grade DH Heavy-Hex
 c. Washer: ASTM F436 Type 1
 H. Anchor Bolts, Nuts, and Washers:
 a. Anchor Bolts: ASTM F1554 Grade 55
 b. Nuts: ASTM A563 Grade A Heavy-Hex
 c. Plate Washer: ASTM A36

- I. Stainless Steel Fasteners: ASTM F593 Alloy Group 2, Condition A, CW1 or SH1
- Nut Covers: ASTM B26 (319-F)
- K. Concrete: Class II
- L. Reinforcing Steel: Specification 415
- 4. Fabrication:
- A. Weld Arm and Pole (Alloy 6063) in the T4 temper using 4043 filler. Age the Arm and Pole artificially to the T6 temper after welding.
- B. Transverse welds are only allowed at the base.
- C. Roadway Light Pole Taper: Taper as required to provide a round top O.D. of 6" and a base O.D. of 8" for 20' and 25' mounting heights and 10" O.D. for poles with 30' to 50' mounting heights. Portions of the pole near the base shoe and at the arm connections may be held constant to simplify fabrication.
- D. Median Barrier Mounted Light Pole Taper: Taper as required to provide a 6" O.D. round top with an 11" x 7" O.D. oblong base. Portions of the pole near the base and at the arm connections may be held constant at 11"x oblong base. Portions of the pole hear the base and at the arm connections may be held constant at 11"x 7" oblong and 6" round respectively to simplify fabrication.

 E. Provide 'J', 'S' or 'C' hook at top of pole for electrical wires.

 F. Equip poles located on bridges, walls and concrete median barriers/Traffic Railings with a vibration damper.

 G. Perform all welding in accordance with AWS D1.2.

 H. Embedded Junction Box (EJB):

 a. Weld all seams continuously and grind smooth.

 b. Hot Dip Galvanize after Fabrication.

- c. Provide a watertight cover with neoprene gasket and secure cover with galvanized screws.

 I. For Median Barrier Mounted Aluminum Light Poles, the fabricator must demonstrate the ability to produce a crack free pole. The fabricator's Department-approved QC Plan must contain the following information prior to
- a. Tests demonstrating a pole with a ¼" wall thickness achieves and ultimate moment capacity of 36 kip*ft in the strong axis and 30 kip*ft in the weak axis.
 b. Tests demonstrating a pole with a ½" wall thickness achieves an ultimate moment capacity of 44 kip*ft in the strong axis and 37 kip*ft in the weak axis.
- c. Test results showing the pole does not buckle at the shape transition area under the ultimate moment capacity loads.
- d. Complete details and calculations for the reinforced 4"x 6" (Min.) handhole located 1'-6" above the base plate. J. Identification Tag: (Submit details for approval.)
- a. 2" x 4" (Max.) aluminum identification tag.
- b. Locate on the inside of the transformer base and visible from the door opening.
- c. Secure to transformer base with 1/8" diameter stainless steel rivets or screws. d. Include the following information on the ID Tag: 1. Financial Project ID

- 2. Pole Height

DESCRIPTION:

3. Manufacturer's Name

- 5. Coatings/Finish:
- A. Pole and Arm Finish: 50 grit satin rubbed.
 B. Galvanize Steel Bolts, Screws, Nuts and Washers: ASTM F2329
 C. Hot Dip Galvanize EJB and other steel items including poles and plate washers: ASTM A123
- A. Foundation: Specification 455, except payment for the foundation is included in the cost of the pole.
- B. Frangible Base, Base Shoe, and Clamp:
- a. Certify that the Clamp, Frangible Transformer Base, and Base Shoe Design are capable of providing the required capacity. b. Certify the Base conforms to the current FHWA required AASHTO Frangibility Requirements, tested under
- NCHRP Report 350 Guidelines (e.g. Akron Foundry TB1-17).
- c. Do not erect pole without Luminaire attached.
- 7. Embedded Junction Box (EJB): Install EJBs per Note 4 and in accordance with Specification 635, as shown on the following Sheets.
- 8. Wind Speed by County:

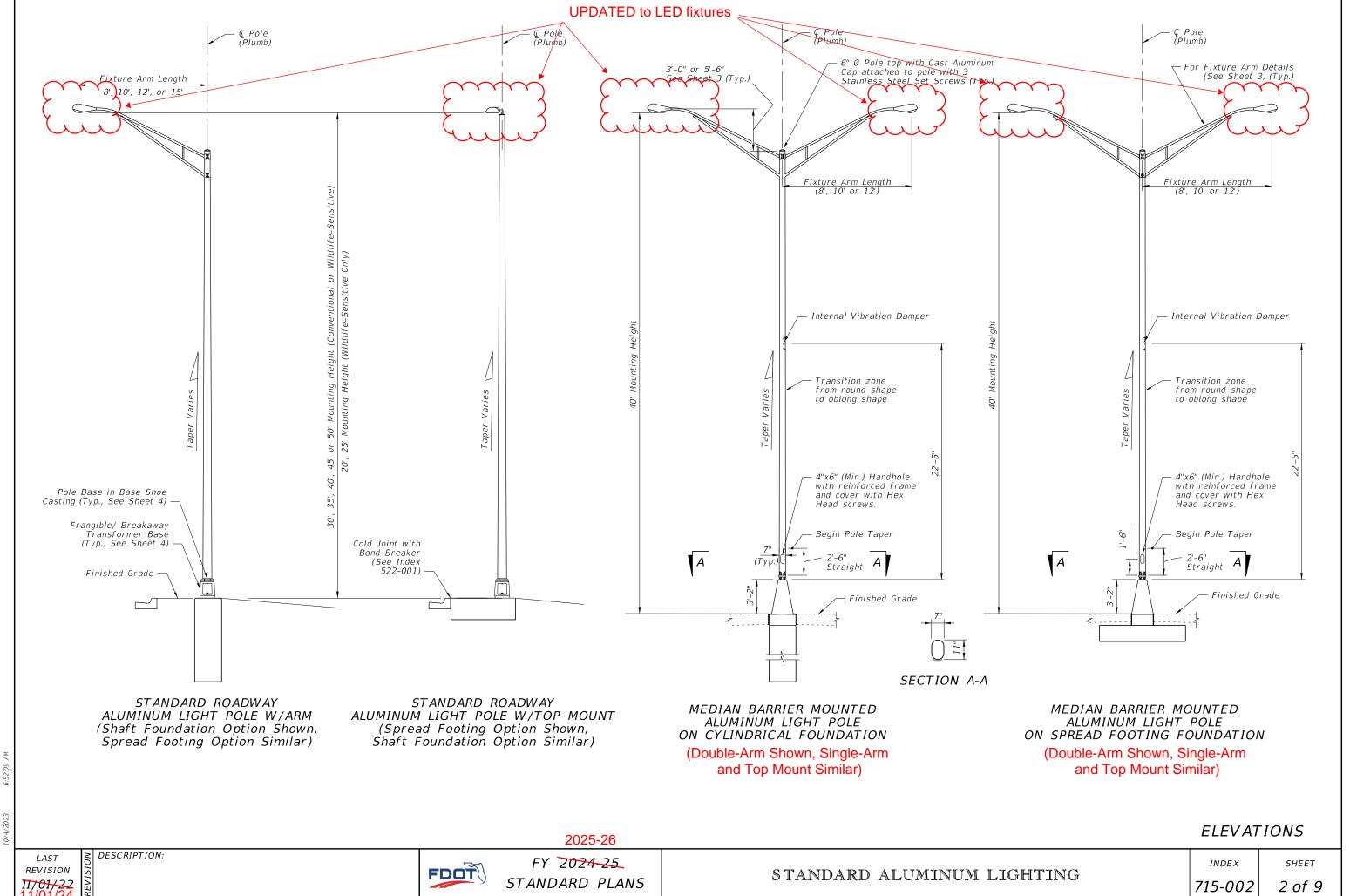
Alachua, Baker, Bradford, Calhoun, Clay, Columbia, Dixie, Duval, Gadsden, Gilchrist, Hamilton, Jackson, Jefferson, Lafayette, Leon, Liberty, Nassau, Madison, Putnam, Suwannee, Taylor, Union and Wakulla Counties.

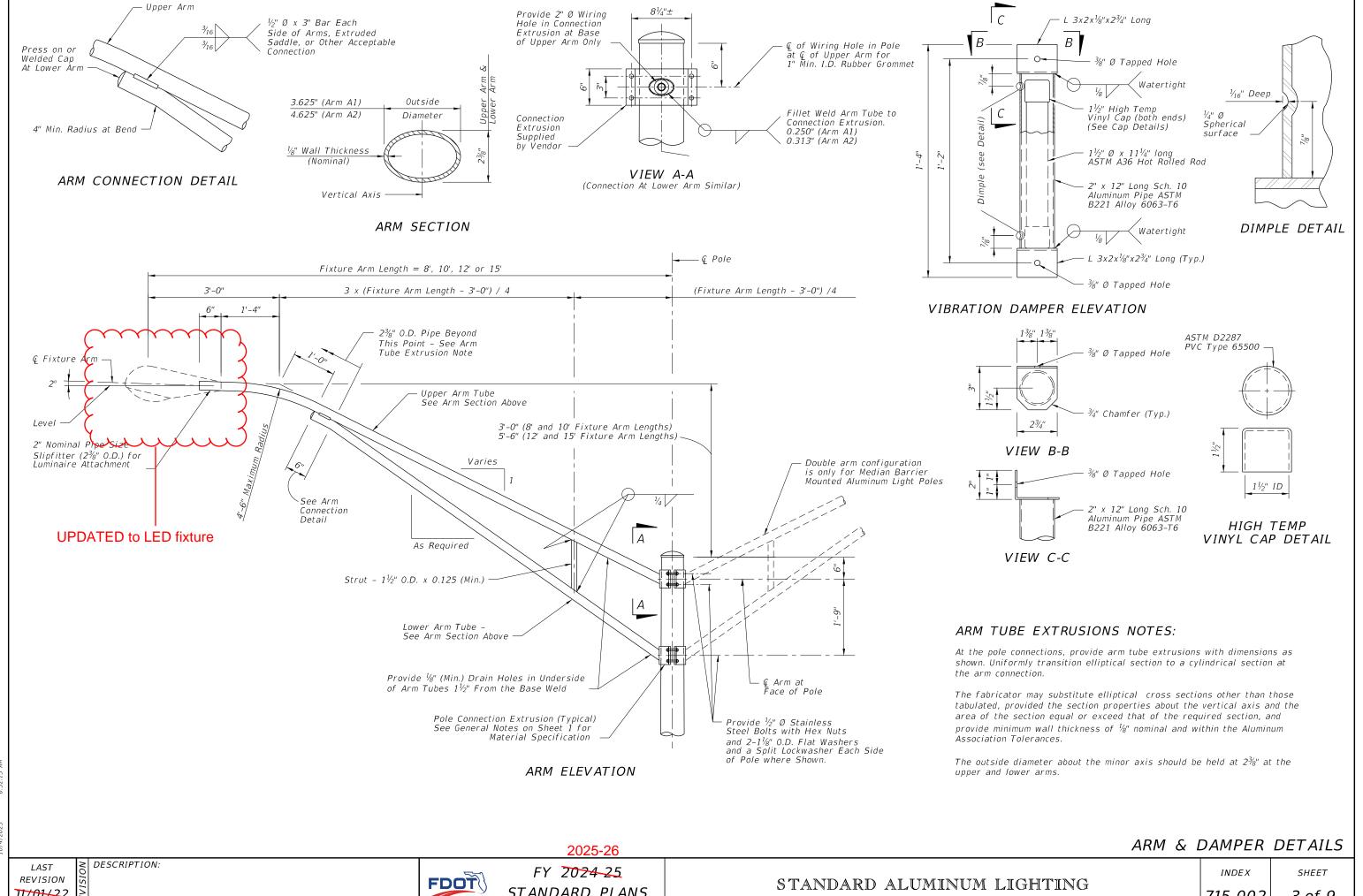
Bay, Citrus, De Soto, Flagler, Franklin, Glades, Gulf, Hardee, Hendry, Hernando, Highlands, Hillsborough, Holmes, Lake, Levy, Manatee, Marion, Okaloosa, Okeechobee, Orange, Osceola, Pasco, Pinellas, Polk, Santa Rosa, Seminole, St. Johns, Sumter, Volusia, Walton and Washington Counties.

Brevard, Broward, Charlotte, Collier, Escambia, Indian River, Lee, Martin, Miami-Dade, Monroe, Palm Beach, Sarasota and St. Lucie Counties

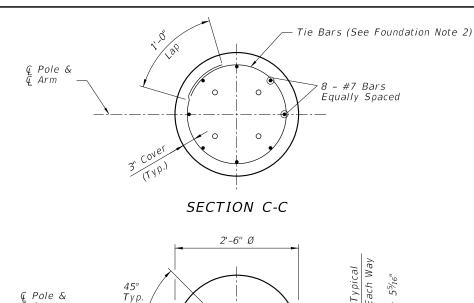


2025-26





11/01/22



VIEW B-B

8~#7 Bars

Equally Spaced

SHAFT FOUNDATION ELEVATION

4 - Equally Spaced Anchor Bolts Oriented

as Shown when the

#6 AWG Bare Ground

or Placed in Conduit

Wire Cast in Concrete

Class II Concrete Shaft may be

Cast-in-Place or Precast With "Flowable Fill" Backfill

(See Foundation Note 3)

Shaft is Installed.

В

С

1'-3" Ø Bolt Circle

Anchor Bolt (Plumb, See

Note in Pole Base Elevation)

В

1" Chamfer

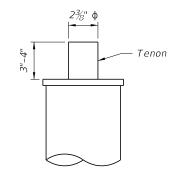
C

Conduit with Elbow 1" Min.

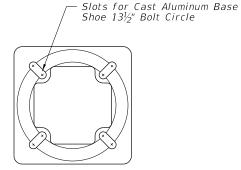
Double

Nuts (Typ.)

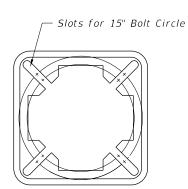
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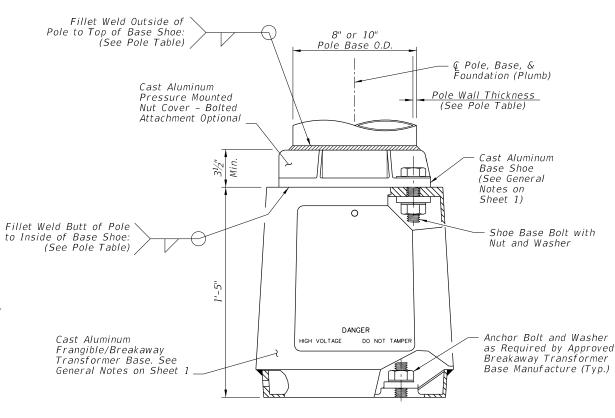
TOP MOUNT TENON



TOP VIEW TRANSFORMER BASE



BOTTOM VIEW TRANSFORMER BASE



POLE BASE ELEVATION

FOR STANDARD ALUMINUM LIGHT POLES WITH ARM Wind Speed and Arm Lengths (Ft.) Mounting 120 mph 140 mph Height (Ft.) 8, 10, 12, 15 8, 10, 12 8, 10 12, 15 15 30 A1-P1 A2-P1 35 A2-P1 A1-P1 A1-P1 40 A2-P2 A1-P2 45

ARM-POLE TABLE

ARM POLE NOTES:

50

A1-P2

1. See ARM SECTION detail on Sheet 3 for all A1 and A2 Values.

A2-P2

A1-P3

A2-P3

- 2. See Pole Table for all P1, P2, and P3 values.
- 3. For Median Barrier Mounted Pole, Use Arm A1
- 4. For 20' and 25' assembly heights use only 8' or 10' arm A1 with PO.

A1-P2

POLE TABLE					
Pole Pole Wall Top of Inside of Base Shoe Base Shoe Weld Weld					
P0	0.156	³ / ₁₆ "	⁵ / ₃₂ "		
P1	0.156	³ / ₁₆ "	⁵ / ₃₂ "		
P2	0.250	1/4"	1/4"		
Р3	0.313	⁵ / ₁₆ "	⁵ / ₁₆ "		

POLE NOTES:

- 1. Pole wall thicknesses shown are nominal and must be within the Aluminum Association tolerances.
- 2. Thicker walls are permitted and tapered walls may be used in accordance with the minimum Aluminum Association thicknesses.

TOP MOUNT POLE TABLE FOR STANDARD ALUMINUM LIGHT POLES WITH TOP MOUNT Mounting Wind Speed and Arm Lengths (Ft.) Heigh<mark>t</mark> (Ft.) 140 mpt \ 120kmph 人 人 160 mph 20 Pole PO Pole P0 Pole P0 25 30 Pole P1 35 Pole P1 Pole P1 40 45 Pole P2 Pole P2 Pole P2 50

SHAFT FOUNDATION TABLE						
Pole PO P1 P2 P3						
Depth	6'-0"	7'-0"	8'-0"	8'-0"		
Bolt Min. Embedment	2'-6"	3'-6"	3'-6"	3'-6"		

SHAFT FOUNDATION OPTION WITH LIGHT POLE & BASE DETAILS

SHAFT FOUNDATION NOTES:

DESCRIPTION:

- 1. Depths shown are for slopes equal to or flatter than 1:4. For slope steeper than 1:4 and equal to or flatter than 1:2 add 2'-6" to foundation depths shown.
- 2. Foundation Tie Bars: #4 Tie Bars @ 12" centers (max.) or D10 (or W10) spiral @ 6" pitch, 3 flat turns top and 1 flat turn bottom.
- 3. For precast foundations, the circular cross section shown herein may be substituted with an octagon shape. The out-to-out distance between parallel edges of the octagon must be ≥ 2'-6" Use the same reinforcing diameter and centered placement with a minimum 3" cover.

2025-26

FDOT

FY 2024-25 STANDARD PLANS

STANDARD ALUMINUM LIGHTING

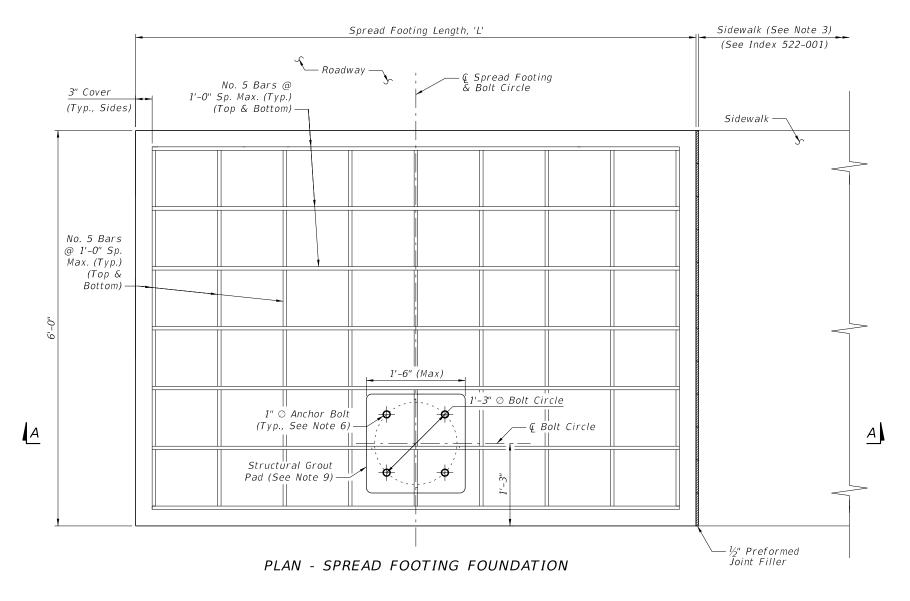
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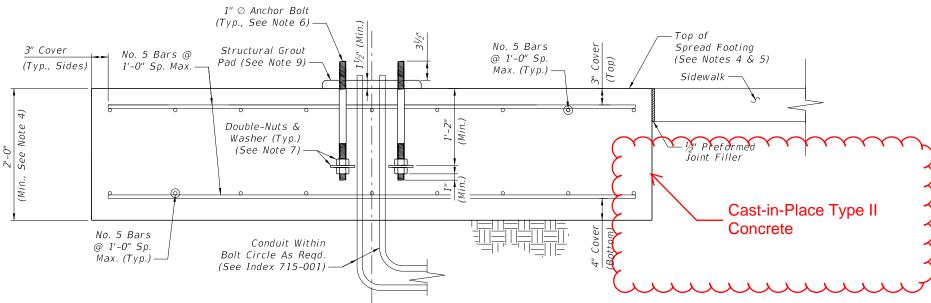
SHEET 4 of 9

LAST

REVISION

11/01/23





SPREAD FOOTING LENGTH, 'L' Wind Speed (All Arm Lengths) Mounting Height (Ft.) 120 mph 140 mph 160 mph 4'-6" 5'-0" 6'-0" 20 25 4'-6" 6'-0" 5'-0" 30 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 7'-0" 35 40 7'-0" 7'-0" 10'-0" 45 8'-6" 10'-0" 10'-0" 50 8'-6" 10'-0" 11'-6"

NOTES:

- 1. Install the Spread Footing Foundation Option only where called for in the Plans.
- 2. The Spread Footing Foundation Option is only permitted for use with single arm or top mount light poles. Where applicable, the pole arm must be oriented towards the roadway side of the footing as shown. Double arm configurations are not permitted.
- 3. Sidewalk placed on the other side or both sides of the spread footing is permitted where shown in the Plans. The sidewalk connection to spread footing requires the $\frac{1}{2}$ " expansion joint shown regardless of the side.
- 4. The top of the spread footing must match the cross slope of the adjacent sidewalk where applicable per the Plans. The nominal bottom of the spread footing must remain level.
- 5. Apply concrete surface finish to the top of the spread footing in accordance with Specification 522-7.
- 6. Mount the anchor bolts plumb. For the corresponding pole base details, see Sheet 4.
- 7. Place galvanized or zinc-plated steel washers with a minimum thickness of 1/4". Use washers with a minimum size of $3\frac{1}{2}$ " \oslash round or 3"x3" square.
- 8. Where raised curb is called for in the Plans, provide a tooled cold joint with bond breaker between the foundation and back of raised curb. See Sheet 2 and the connection between concrete sidewalk and raised curb per Index 522-001.
- 9. Place a structural grout pad in accordance with Specification 934. The grout pad is square and centered on the bolt circle centerlines. Level the top of the grout pad and smooth the edges and corners per the approval of the Engineer. Install the transformer base in accordance with Sheet 4 and the manufacturer's specifications.

SPREAD FOOTING FOUNDATION OPTION

2025-26

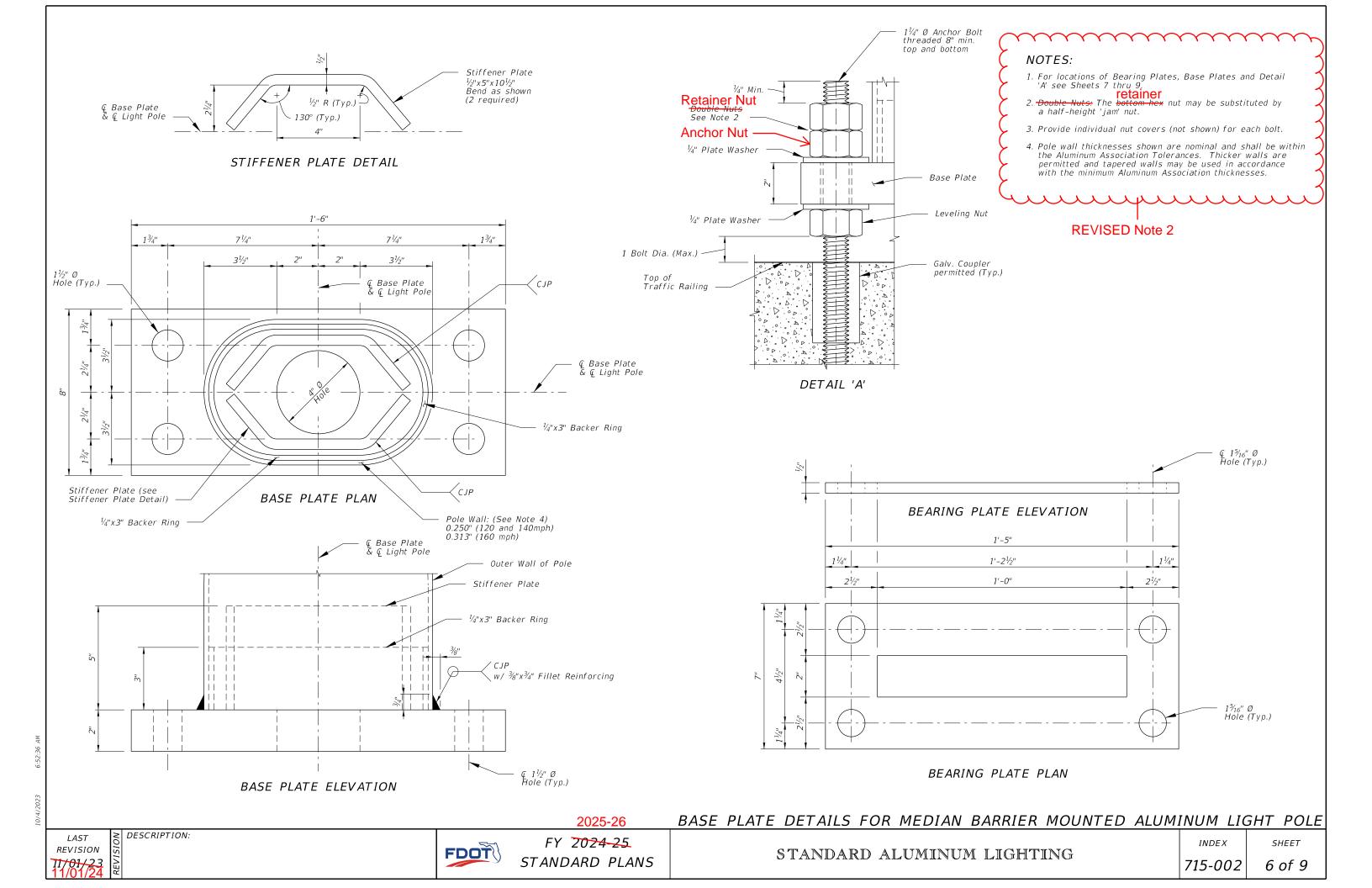
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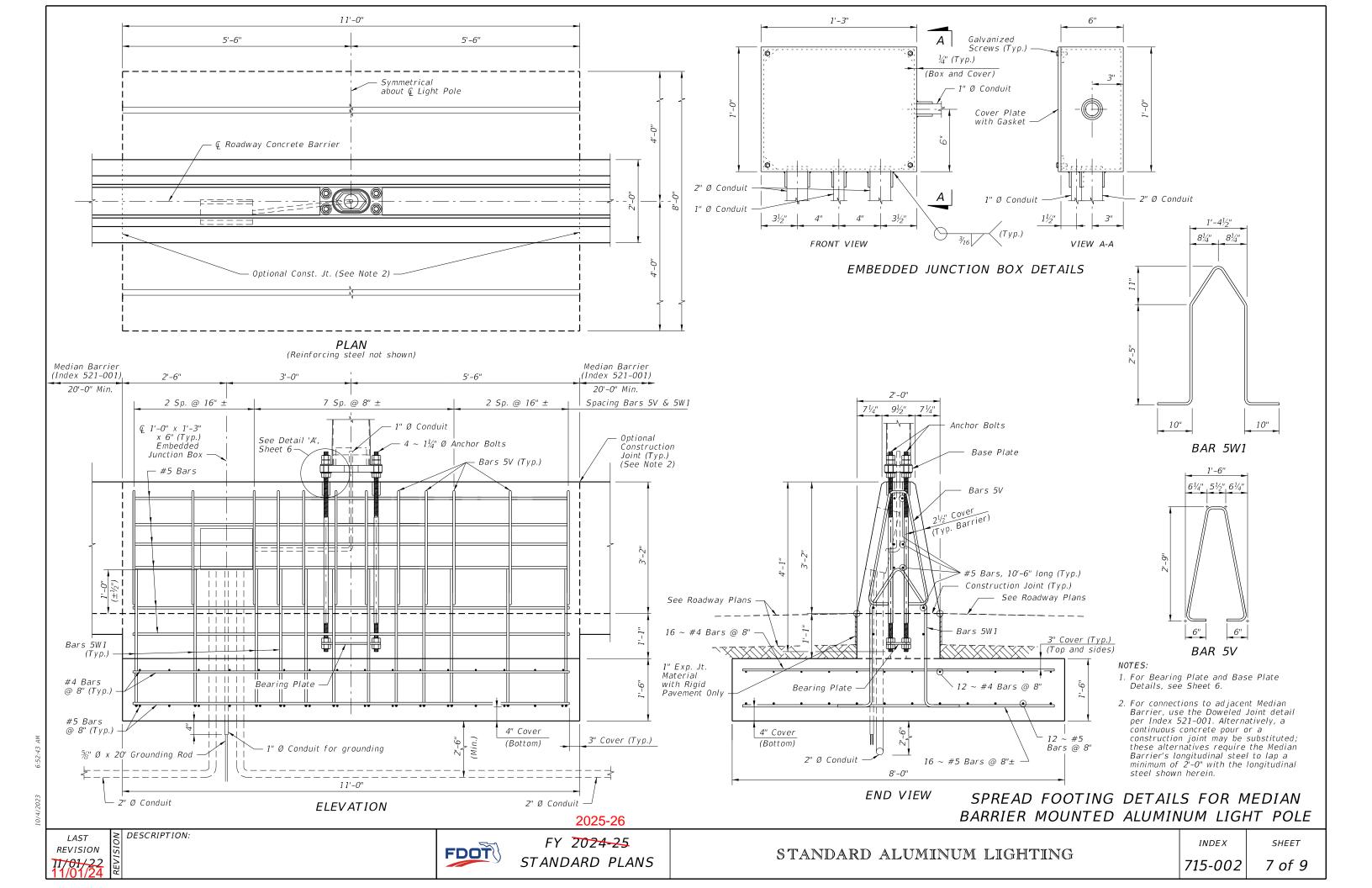
FY 2024 25 STANDARD PLANS INDEX

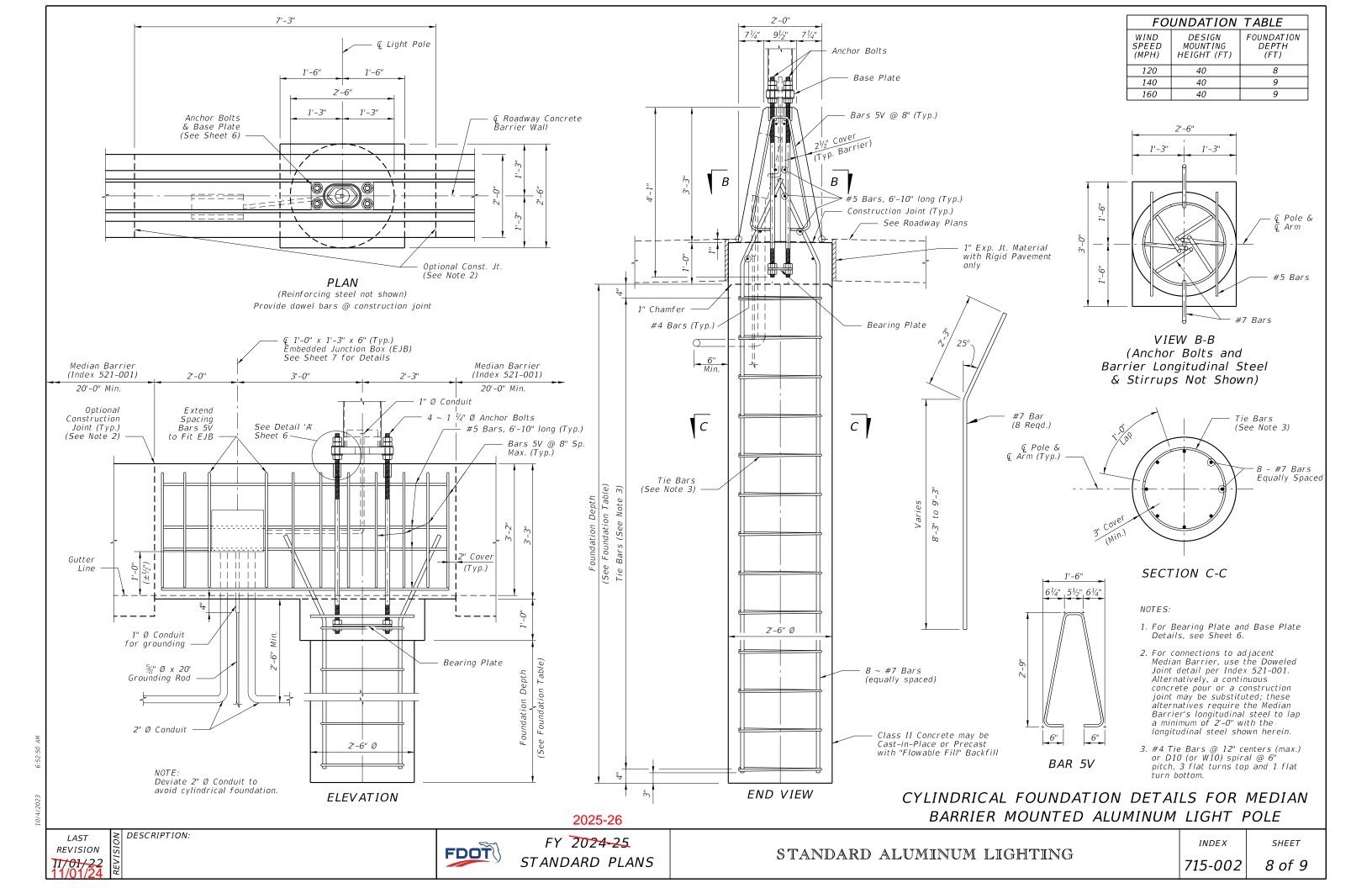
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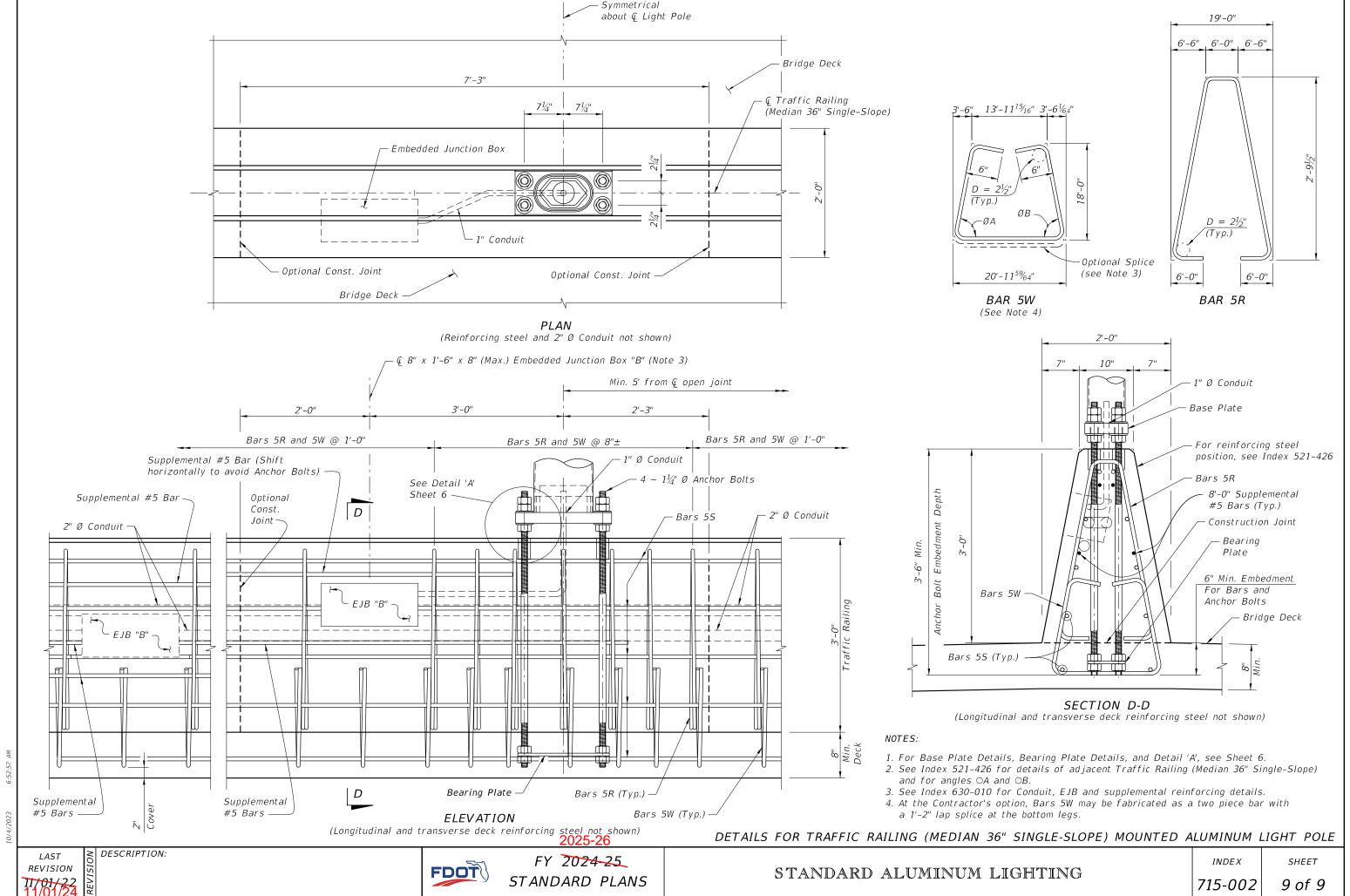
SECTION A-A - SPREAD FOOTING

FOUNDATION ELEVATION









SHEET	CONTENTS	
1	Index Contents; General Notes	
2	Elevations	
3	Arm & Damper Details	
4	Shaft Foundation Option with Light Pole & Base Details	
5	Spread Footing Foundation Option	
6	Base Plate Details for Median Barrier Mounted Aluminum Light Pole	
7	Spread Footing Details for Median Barrier Mounted Aluminum Light Pole	
8	Cylindrical Foundation Details for Median Barrier Mounted Aluminum Light Pole	
9	Details for Traffic Railing (Median 36" Single-Slope) Mounted Aluminum Light Pole	

GENERAL NOTES:

- 1. LOADING: Poles are designed to support the following:
 - a. Luminaire Effective Projected Area (EPA): 1.55 SF
 - b. Weight: 75 lb.
- 2. SHOP DRAWINGS: This Index is considered fully detailed; only submit shop drawings for minor modifications not included in the Plans

3. MATERIALS:

- a. Pole, Pole Connection Extrusions and Arm Extrusions: ASTM B221, Alloy 6063-T6 or Alloy 6061-T6
- b. Bars, Plates, Stiffeners and Backer Ring: ASTM B221, Alloy 6063-T6
- c. Caps and Covers: ASTM B-26, Alloy 319-F
- d. Steel Bearing Plate: ASTM A709 or ASTM A36 Grade 36
- e. Aluminum Weld Material: ER 4043
- f. Transformer and Frangible Base Materials: ASTM B26 or ASTM B108, Alloy 356-T6
- g. Bolts, Nuts and Washers:
 - i. Shoe Base Bolts: ASTM F3125, Grade A325, Type 1
 - ii. Nuts: ASTM A563 Grade DH Heavy-Hex
 - iii. Washer: ASTM F436 Type 1
- h. Anchor Bolts, Nuts, and Washers:
 - i. Anchor Bolts: ASTM F1554 Grade 55
 - ii. Nuts: ASTM A563 Grade A Heavy-Hex
 - iii. Plate Washer: ASTM A36
- i. Stainless Steel Fasteners: ASTM F593 Alloy Group 2, Condition A, CW1 or SH1
- j. Nut Covers: ASTM B26 (319-F)
- k. Concrete: Class II
- I. Reinforcing Steel: Specification 415

4. FABRICATION:

- a. Weld Arm and Pole (Alloy 6063) in the T4 temper using 4043 filler. Age the Arm and Pole artificially to the T6 temper after welding
- b. Transverse welds are only allowed at the base.
- c. Roadway Light Pole Taper: Taper as required to provide a round top 0.D. of 6" and a base 0.D. of 8" for 20' and 25' mounting heights and 10" 0.D. for poles with 30' to 50' mounting heights. Portions of the pole near the base shoe and at the arm connections may be held to simplify fabrication.
- d. Median Barrier Mounted Light Pole Taper: Taper as required to provide a 6" O.D. round top with an 11" x 7" O.D. oblong base. Portions of the pole near the base and at the arm connections may be held constant at 11"x 7" oblong and 6" round respectively to simplify fabrication.
- e. Provide 'J', 'S' or 'C' hook at top of pole for electrical wires.
- f. Equip poles located on bridges, walls and concrete median barriers/Traffic Railings with a vibration damper.
- g. Perform all welding in accordance with AWS D1.2.
- h. Embedded Junction Box (EJB):

DESCRIPTION:

- i. Weld all seams continuously and grind smooth.
- ii. Hot Dip Galvanize after Fabrication.
- iii. Provide a watertight cover with neoprene gasket and secure cover with galvanized screws.

GENERAL NOTES (CONTINUED):

5. POLE CAPACITY: For Median Barrier Mounted Aluminum Light Poles, the fabricator must demonstrate the ability to produce a crack free pole.

The fabricator's Department-approved QC Plan must contain the following information prior to fabrication:

- a. Tests demonstrating a pole with a $\frac{1}{4}$ " wall thickness achieves and ultimate moment capacity of 36 kip*ft in the strong axis and 30 kip*ft in the weak axis.
- b. Tests demonstrating a pole with a $^{15}\!\!\!/_{6}$ " wall thickness achieves an ultimate moment capacity of 44 kip*ft in the strong axis and 37 kip*ft in the weak axis.
- c. Test results showing the pole does not buckle at the shape transition area under the ultimate moment capacity loads.
- d. Complete details and calculations for the reinforced 4"x 6" (Min.) handhole located 1'-6" above the base plate.
- 6. IDENTIFICATION TAG: (Submit details for approval.)
 - a. 2" x 4" (Max.) aluminum identification tag.
 - b. Locate on the inside of the transformer base and visible from the door opening.
 - c. Secure to transformer base with $\frac{1}{8}$ " diameter stainless steel rivets or screws.
 - d. Include the following information on the ID Tag:
 - i. Financial Project ID
 - ii. Pole Height
 - iii. Manufacturer's Name
- 7. COATINGS/FINISH:
 - a. Pole and Arm Finish: 50 grit satin rubbed.
 - b. Galvanize Steel Bolts, Screws, Nuts and Washers: ASTM F2329
 - c. Hot Dip Galvanize EJB and other steel items including poles and plate washers: ASTM A123
- 8. CONSTRUCTION:
 - a. Foundation: Specification 455, except payment for the foundation is included in the cost of the pole.
 - b. Frangible Base, Base Shoe, and Clamp:
 - i. Certify that the Clamp, Frangible Transformer Base, and Base Shoe Design are capable of providing the required capacity.
 - ii. Certify the Base conforms to the current FHWA required AASHTO Frangibility Requirements, tested under NCHRP Report 350 Guidelines (e.g. Akron Foundry TB1-17).
 - iii. Do not erect pole without Luminaire attached.
- 9. EMBEDDED JUNCTION BOX (EJB): Install EJBs per Note 4 and in accordance with Specification 635, as shown on the following Sheets.
- 10. WIND SPEED BY COUNTY:

120 MPH

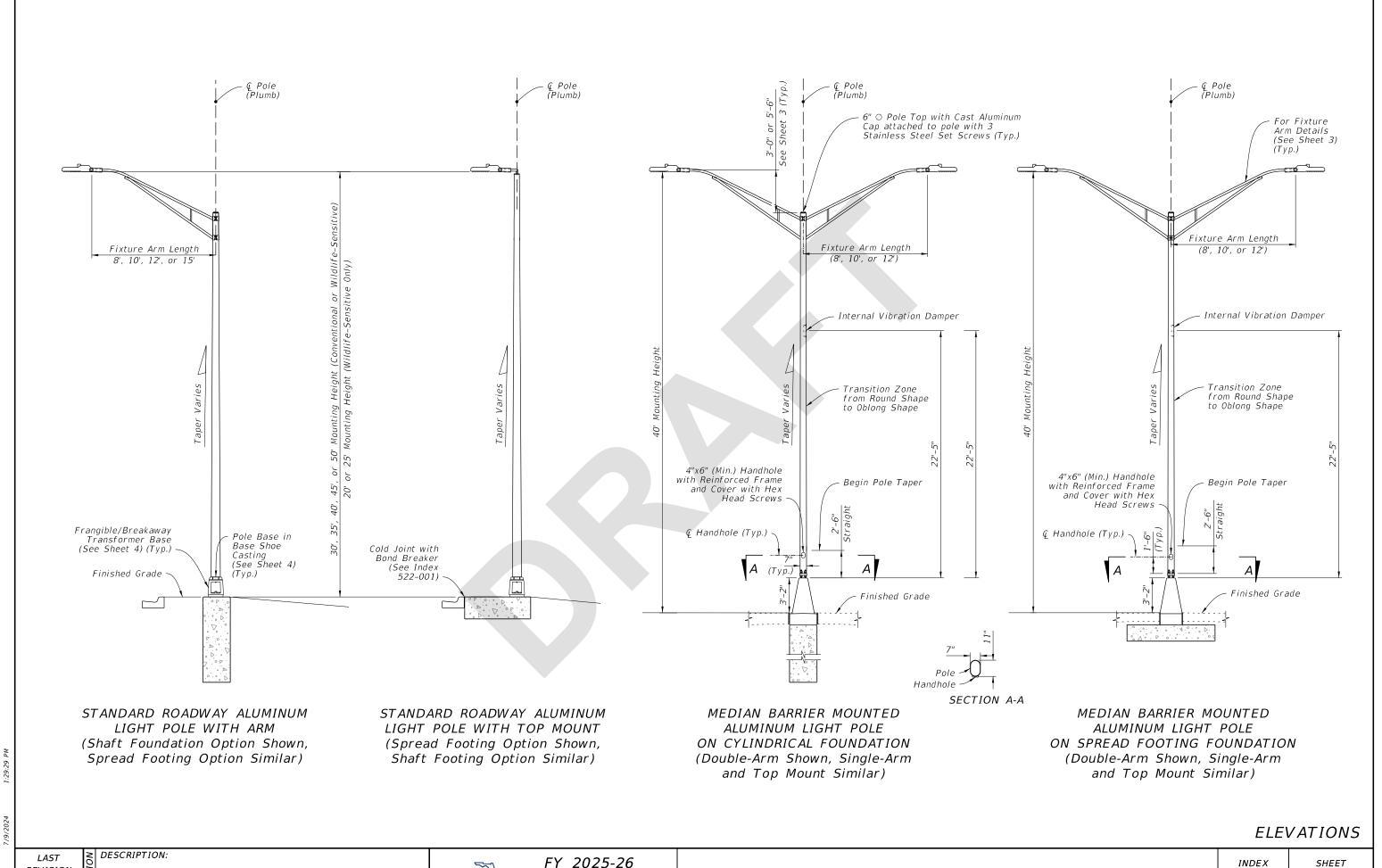
Alachua, Baker, Bradford, Calhoun, Clay, Columbia, Dixie, Duval, Gadsden, Gilchrist, Hamilton, Jackson, Jefferson, Lafayette, Leon, Liberty, Nassau, Madison, Putnam, Suwannee, Taylor, Union and Wakulla Counties.

140 MPH

Bay, Citrus, De Soto, Flagler, Franklin, Glades, Gulf, Hardee, Hendry, Hernando, Highlands, Hillsborough, Holmes, Lake, Levy, Manatee, Marion, Okaloosa, Okeechobee, Orange, Osceola, Pasco, Pinellas, Polk, Santa Rosa, Seminole, St. Johns, Sumter, Volusia, Walton and Washington Counties.

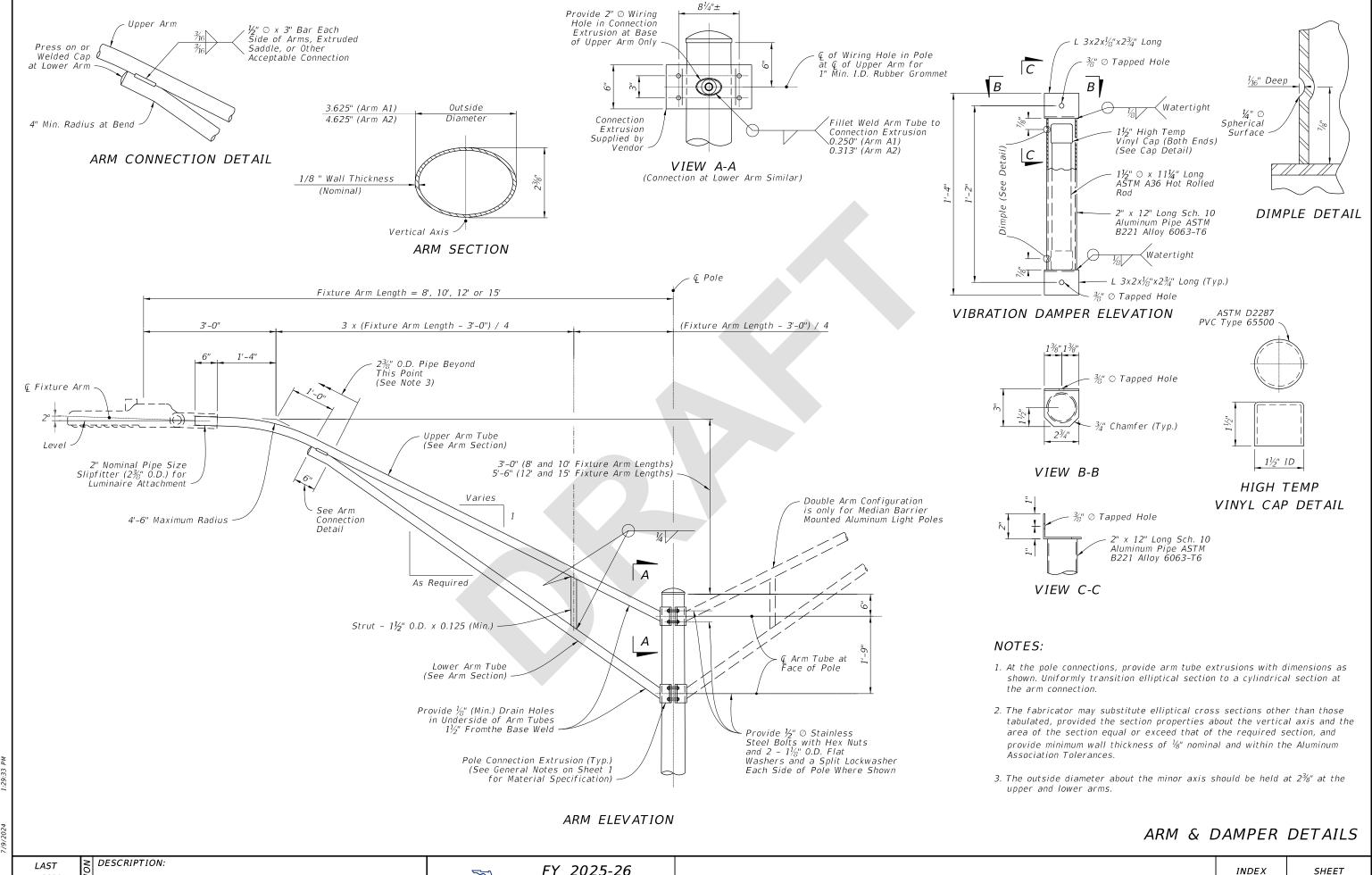
160 MPH

Brevard, Broward, Charlotte, Collier, Escambia, Indian River, Lee, Martin, Miami-Dade, Monroe, Palm Beach, Sarasota and St. Lucie Counties.



REVISION 11/01/24

FDOT



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LAST REVISION 11/01/24

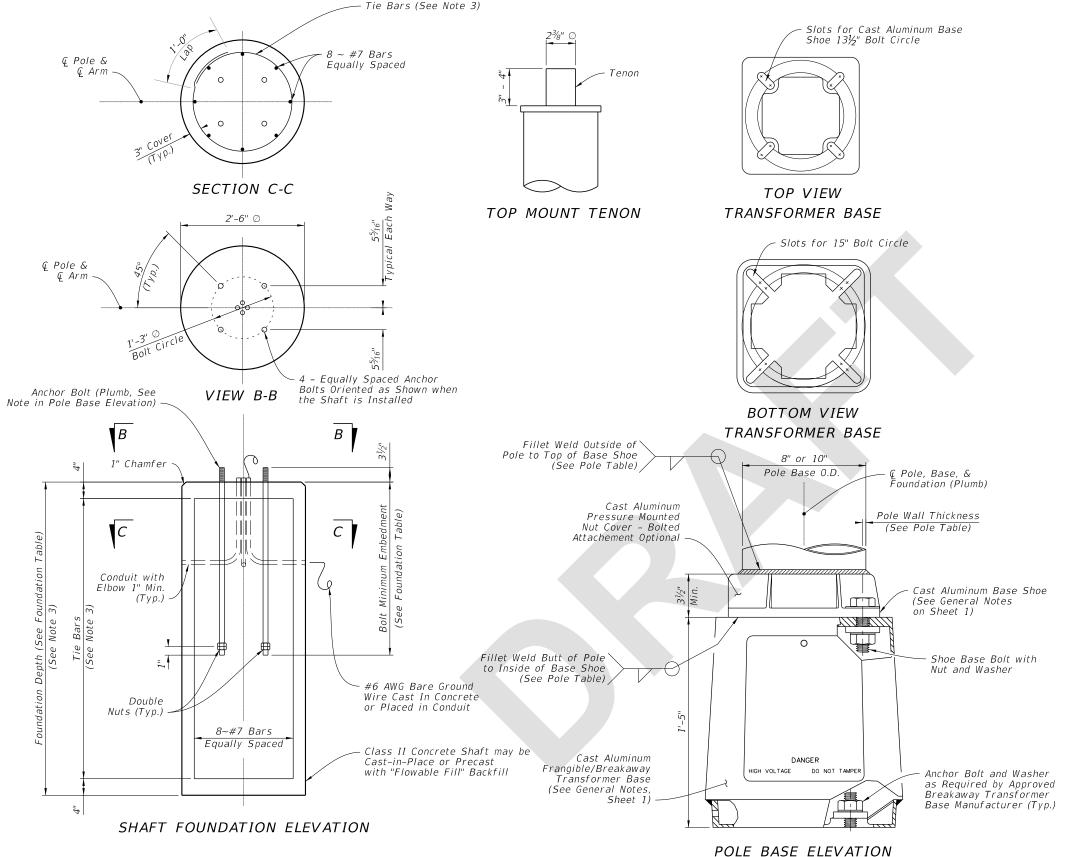
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FY 2025-26 STANDARD PLANS

STANDARD ALUMINUM LIGHTING

INDEX 715-002

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SHAFT FOUNDATION NOTES:

DESCRIPTION:

- 1. Depths shown are for slopes equal to or flatter than 1:4. For slope steeper than 1:4 and equal to or flatter than 1:2 add 2'-6" to foundation depths shown.
- 2. Foundation Tie Bars: #4 Tie Bars @ 12" centers (max.) or D10 (or W10) spiral @ 6" pitch, 3 flat turns top and 1 flat turn bottom.
- 3. For precast foundations, the circular cross section shown herein may be substituted with an octagon shape. The out-to-out distance between parallel edges of the octagon must be ≥ 2'-6". Use the same reinforcing diameter and centered placement with a minimum 3" cover.

ARM-POLE TABLE

FOR STANDARD ALUMINUM LIGHT POLES WITH ARM

Mounting	Wind Speed and Arm Lengths (Ft.)				
Height			mph 160 mph		mph
(Ft.)	8, 10, 12, 15	8, 10, 12	15	8, 10	12, 15
30				A1-P1	A2-P1
35	A1-P1	A1-P1	A2-P1	A1-P1	AZ-FI
40	AI-PI			A1-P2	A2-P2
45	A1-P2	41 02	A2-P2	A1-P2	AZ-PZ
50	A1-P2	A1-P2	AZ-PZ	A1-P3	A2-P3

ARM POLE NOTES:

- 1. See ARM SECTION detail on Sheet 3 for all A1 and A2 Values.
- 2. See Pole Table for all P1, P2, and P3 values.
- 3. For Median Barrier Mounted Pole, Use Arm A1.
- 4. For 20' and 25' assembly heights use only 8' or 10' arm A1 with PO

POLE TABLE					
Pole Wall Top of Inside of Base Shoe Base Shoe Weld Weld					
P0	0.156	³ / ₁₆ "	⁵ / ₃₂ "		
P 1	0.156	³ / ₁₆ "	⁵ / ₃₂ "		
P2	0.250	1/4"	1/4"		
Р3	0.313	5∕ ₁₆ "	⁵ ⁄16"		

POLE NOTES:

- 1. Pole wall thicknesses shown are nominal and must be within the Aluminum Association tolerances.
- 2. Thicker walls are permitted and tapered walls may be used in accordance with the minimum Aluminum Association thicknesses.

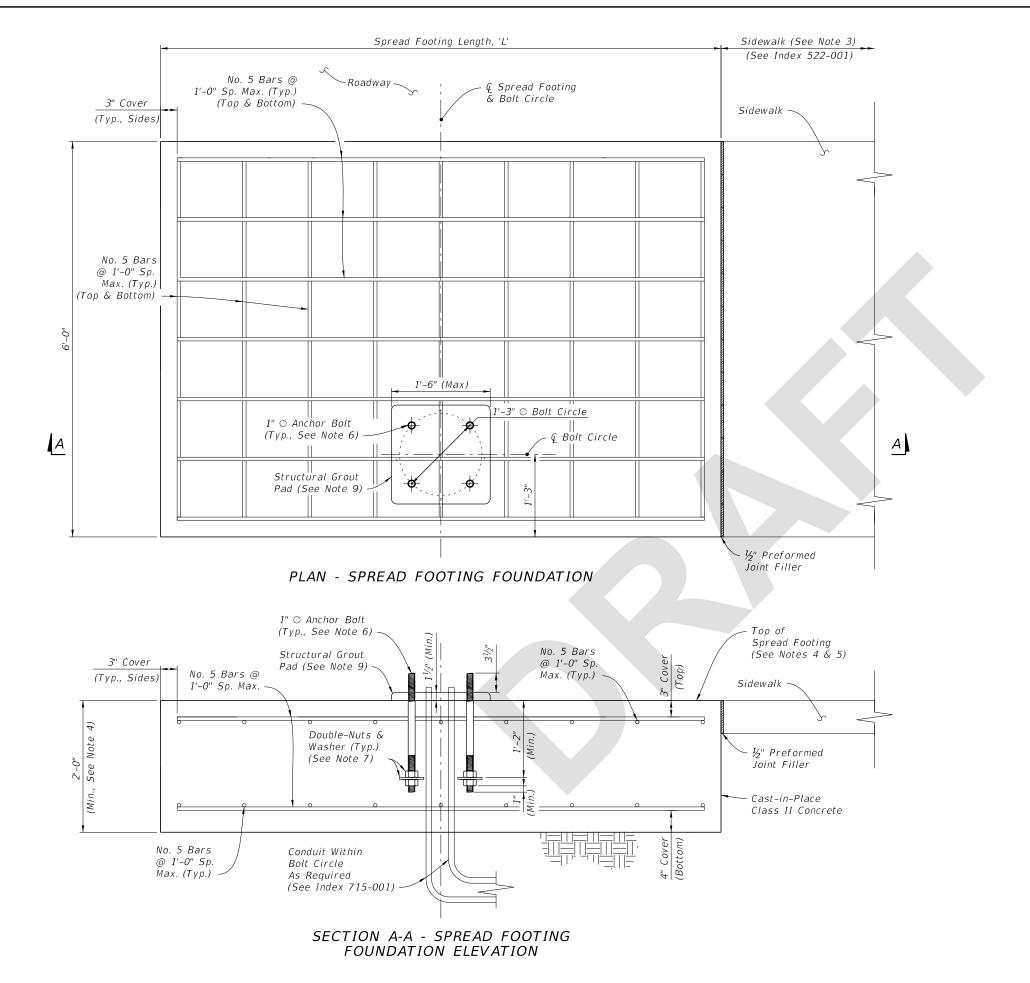
TOP MOUNT POLE TABLE FOR STANDARD ALUMINUM LIGHT POLES WITH TOP MOUNT						
Mounting	VVIIII	Wind Speed				
Height (Ft.)	120 mph	160 mph				
20	Pole PO	Pole PO	Pole PO			
25	roie ro	Pole Po	Pole Po			
30	Pole P1					
35	Pole P1	Pole P1				
40	1					
45	Pole P2 Pole P2 Pole					
50	Pole P2	Pole PZ				

SHAFT FOUNDATION TABLE				
Pole	P0	P1	P2	Р3
Depth	6'-0"	7'-0"	8'-0"	8'-0"
Bolt Min. Embedment	2'-6"	3'-6"	3'-6"	3'-6"

SHAFT FOUNDATION OPTION
WITH LIGHT POLE & BASE DETAILS

LAST REVISION 11/01/24





SPREAD FOOTING LENGTH, 'L'				
Mounting	Wind Sp	eed (All Arm Le	engths)	
Height (Ft.)	120 mph	140 mph	160 mph	
20	4'-6"	5'-0"	6'-0"	
25	4'-6"	5'-0"	6'-0"	
30	7'-0"	7'-0"	7'-0"	
35	7'-0"	7'-0"	7'-0"	
40	7'-0"	7'-0"	10'-0"	
45	8'-6"	10'-0"	10'-0"	
50	8'-6"	10'-0"	11'-6"	

NOTES:

- 1. Install the Spread Footing Foundation Option only where called for in the Plans.
- 2. The Spread Footing Foundation Option is only permitted for use with single arm or top mount light poles. Where applicable, the pole arm must be oriented towards the roadway side of the footing as shown. Double arm configurations are not permitted.
- 3. Sidewalk placed on the other side or both sides of the spread footing is permitted where shown in the Plans. The sidewalk connection to spread footing requires the ½" expansion joint shown regardless of the side.
- 4. The top of the spread footing must match the cross slope of the adjacent sidewalk where applicable per the Plans. The nominal bottom of the spread footing must remain level.
- 5. Apply concrete surface finish to the top of the spread footing in accordance with Specification 522-7.
- 6. Mount the anchor bolts plumb. For the corresponding pole base details, see Sheet 4.
- 7. Place galvanized or zinc-plated steel washers with a minimum thickness of $\frac{1}{4}$ ". Use washers with a minimum size of $3\frac{1}{2}$ " \oslash round or 3"x3" square.
- 8. Where raised curb is called for in the Plans, provide a tooled cold joint with bond breaker between the foundation and back of raised curb. See Sheet 2 and the connection between concrete sidewalk and raised curb per Index 522-001.
- 9. Place a structural grout pad in accordance with Specification 934. The grout pad is square and centered on the bolt circle centerlines. Level the top of the grout pad and smooth the edges and corners per the approval of the Engineer. Install the transformer base in accordance with Sheet 4 and the manufacturer's specifications.

SPREAD FOOTING FOUNDATION OPTION

LAST REVISION 11/01/24

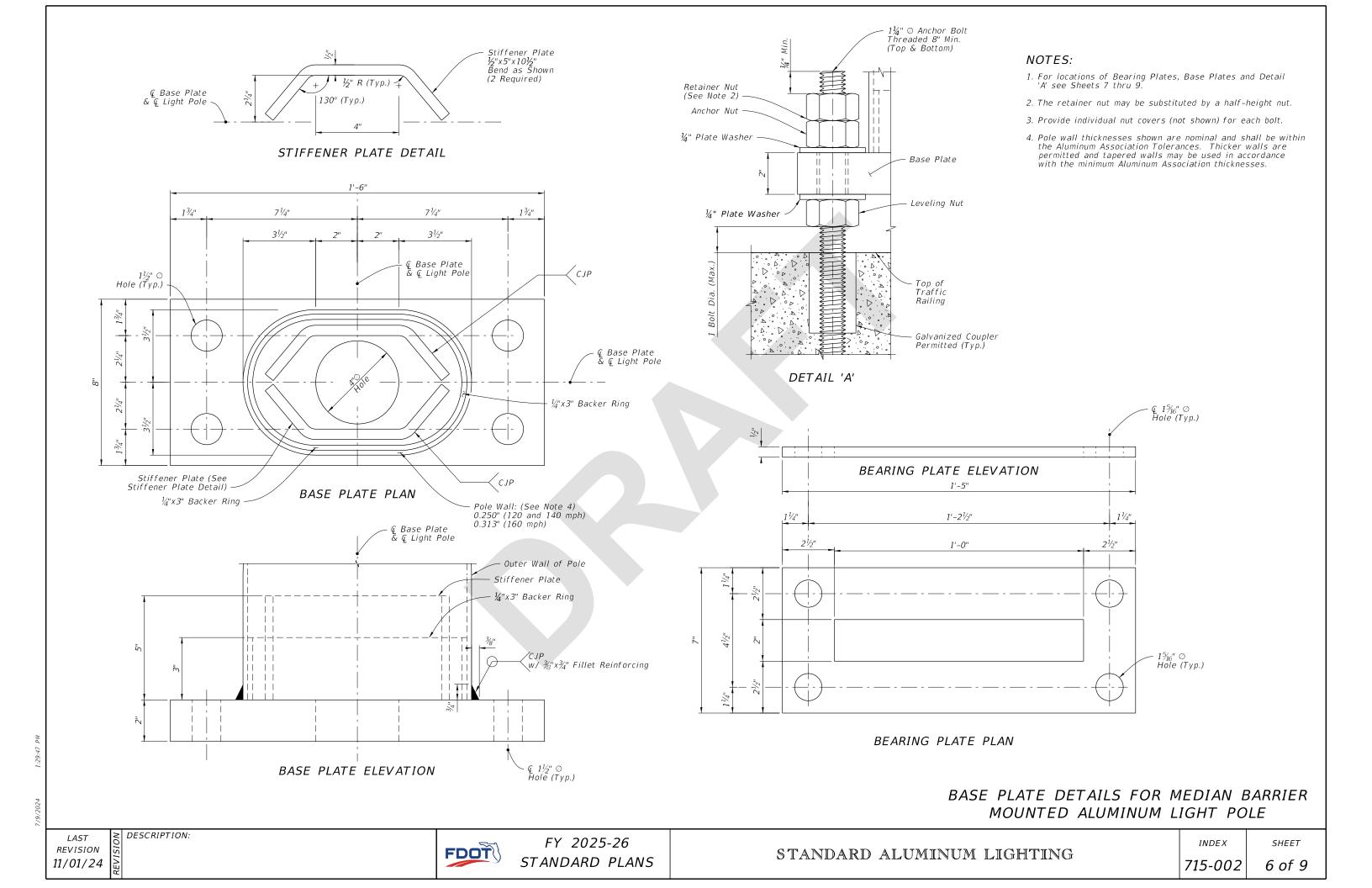
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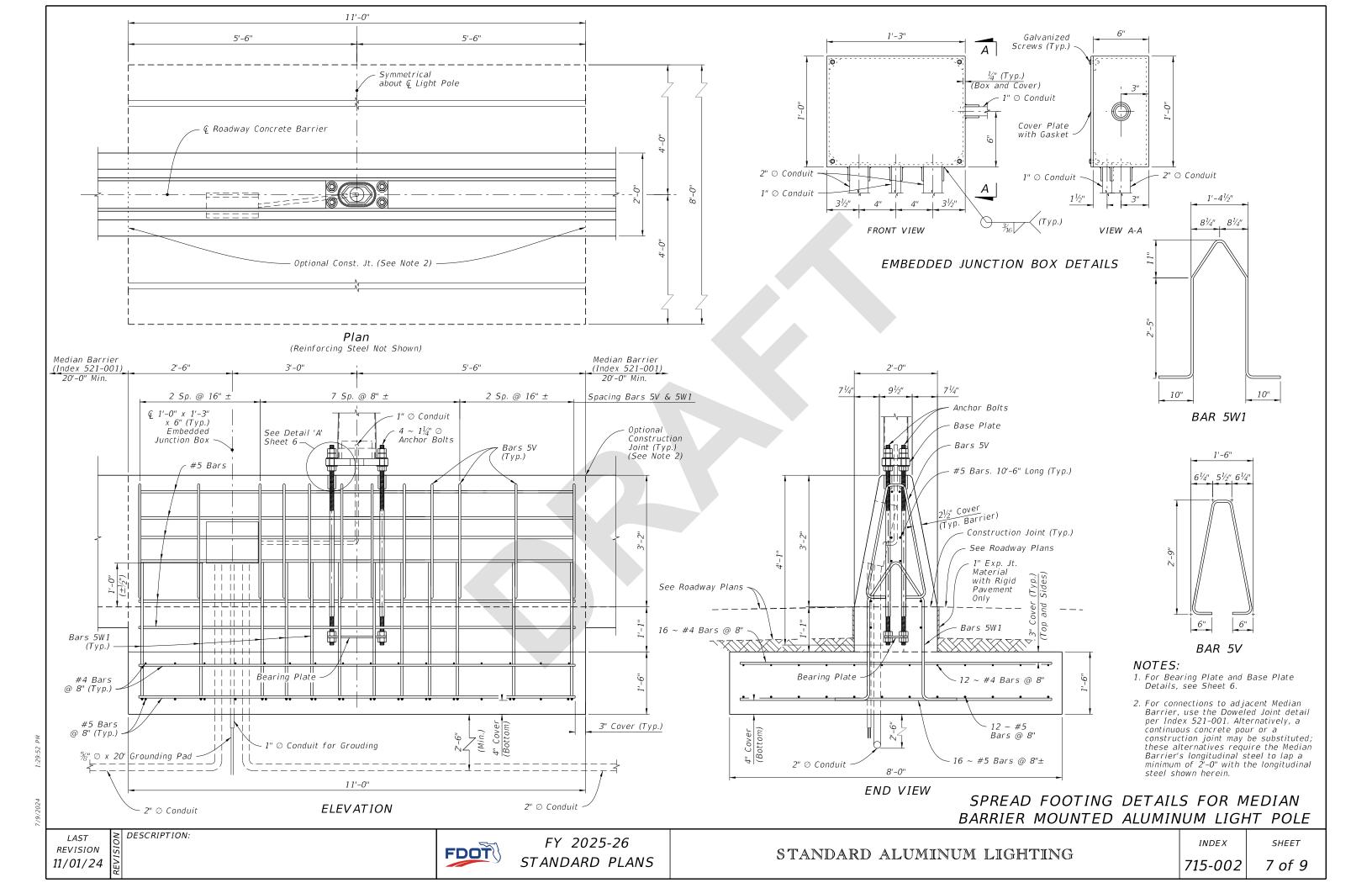
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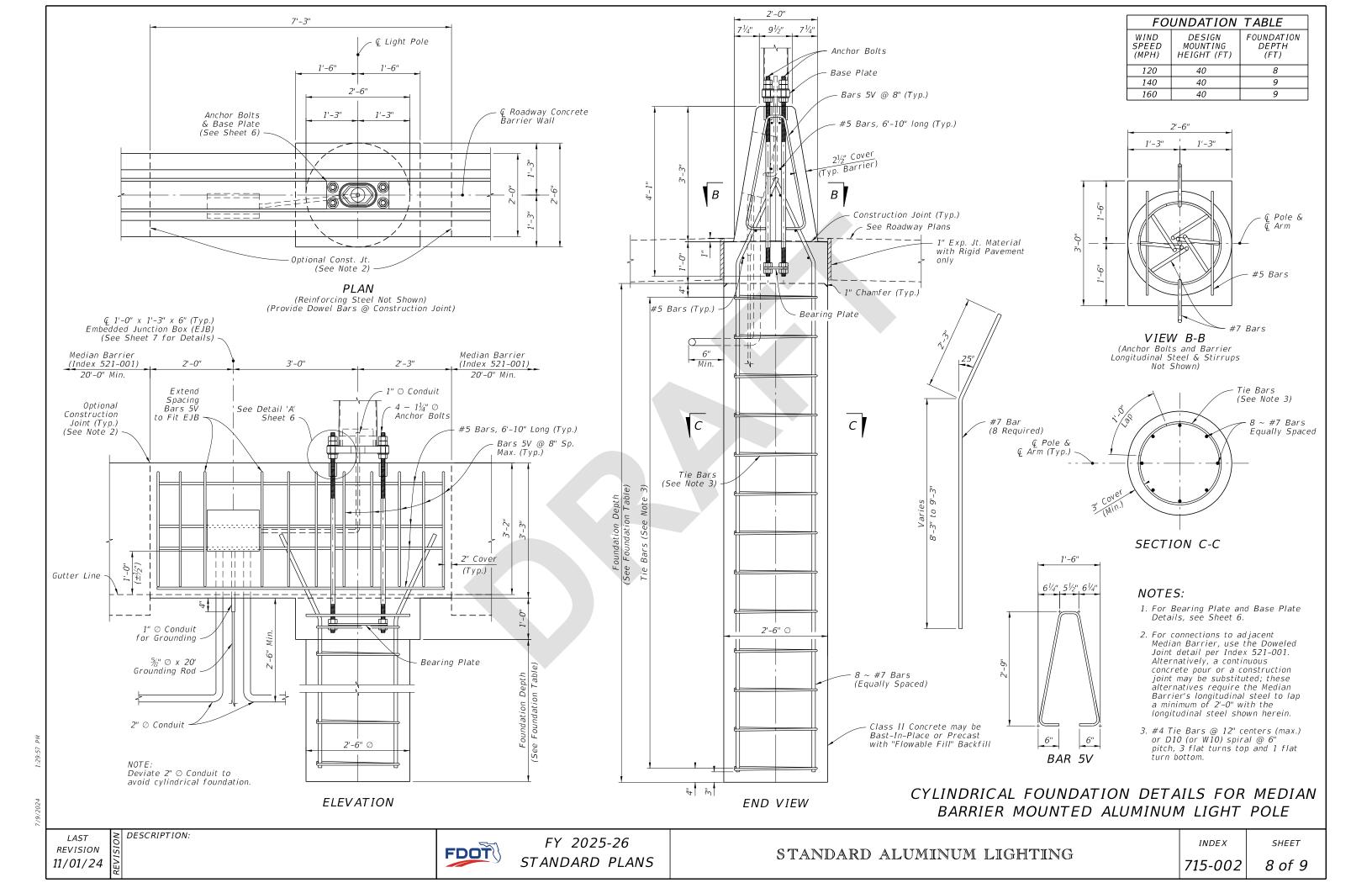
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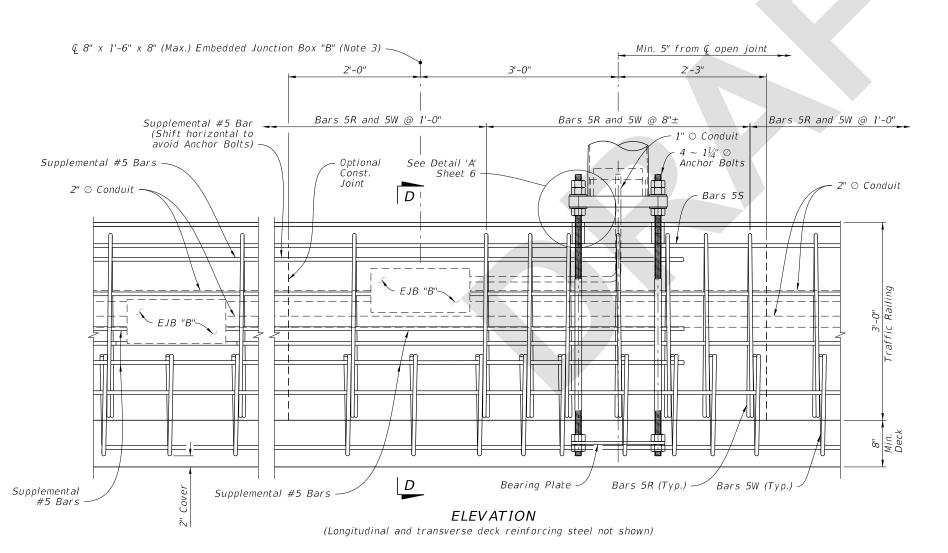
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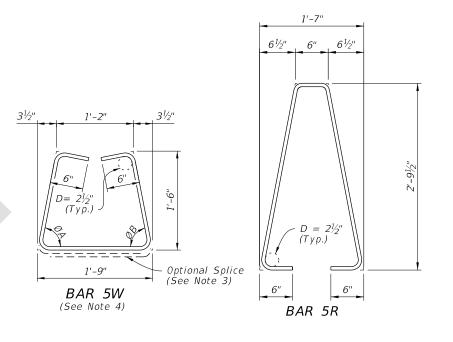


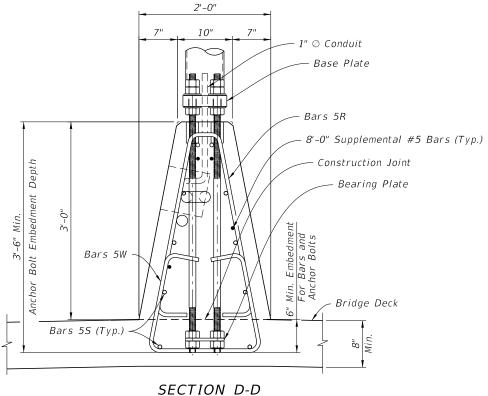
(Reinforcing Steel and 2" ⊘ Conduit Not Shown)



NOTES:

- 1. For Base Plate Details, Bearing Plate Details, and Detail 'A', see Sheet 6.
- 2. See Index 521-426 for details of adjacent Traffic Railing (Median 36" Single-Slope) and for angles ⊙A and ⊙B.
- 3. See Index 630-010 for Conduit, EJB and supplemental reinforcing details.
- 4. At the Contractor's option, Bars 5W may be fabricated as a two piece bar with a 1'-2" lap splice at the bottom legs.





(Longitudinal and Transverse Deck Reinforcing Steel Not Shown) (See Index 521–426 for Traffic Railing Reinforcing Positions)

DETAILS FOR TRAFFIC RAILING (MEDIAN 36" SINGLE-SLOPE) MOUNTED ALUMINUM LIGHT POLE

LAST REVISION II/01/24

DESCRIPTION:

FDOT

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STANDARD ALUMINUM LIGHTING

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