

Origination Form
Proposed Revisions to a Standard Plans Index

Originator:	Stepp, Richard	Index Number:	715-002
Date:	6/30/2026	Sheet Number(s):	1, 2, 4, 5
E-mail:	richard.stepp@dot.state.fl.us	Index Title:	Standard Aluminum Lighting

Summary of the changes:

Sheet 1: Updated General Note 2 with new information about shop drawing requirements for frangible bases on the APL; Revised General Note 3 so that a material requirement applies to "Transformer Base" and not all "Frangible Base" options; Revised General Note 6 to address all frangible base options on the APL.
Sheet 2: Updated Frangible Base callout to include other options besides Transformer Base.
Sheet 4: Added Note 4 to address requirements for Frangible Base options on the APL; Added Note 4 references in the drawings and tables.
Sheet 5: Added references to Note 4 on Sheet 4 for additional information regarding APL options.

Commentary/Background:

Revisions were made to support additional light pole base options as shown on the APL. For example, in addition to the transformer base option shown in the Index, the breakaway bolt option on the APL may be used instead. Having more light pole base options helps to alleviate supply chain restrictions, which may help improve construction schedules. Additionally, this revision helps to streamline the process by providing options that are pre-approved for BABA. This revision is being made in conjunction with others in Index 715-001, 715-003, and Standard Specifications 992.

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

Implementation

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1	Index Contents; General Notes
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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. **Additionally, shop drawings are required for frangible base options shown on the APL where required bolt circle diameters or embedment depths differ from this Index and are not detailed 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
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 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):
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.

Use a frangible base connection as listed on the APL. The base must be recognized by

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.

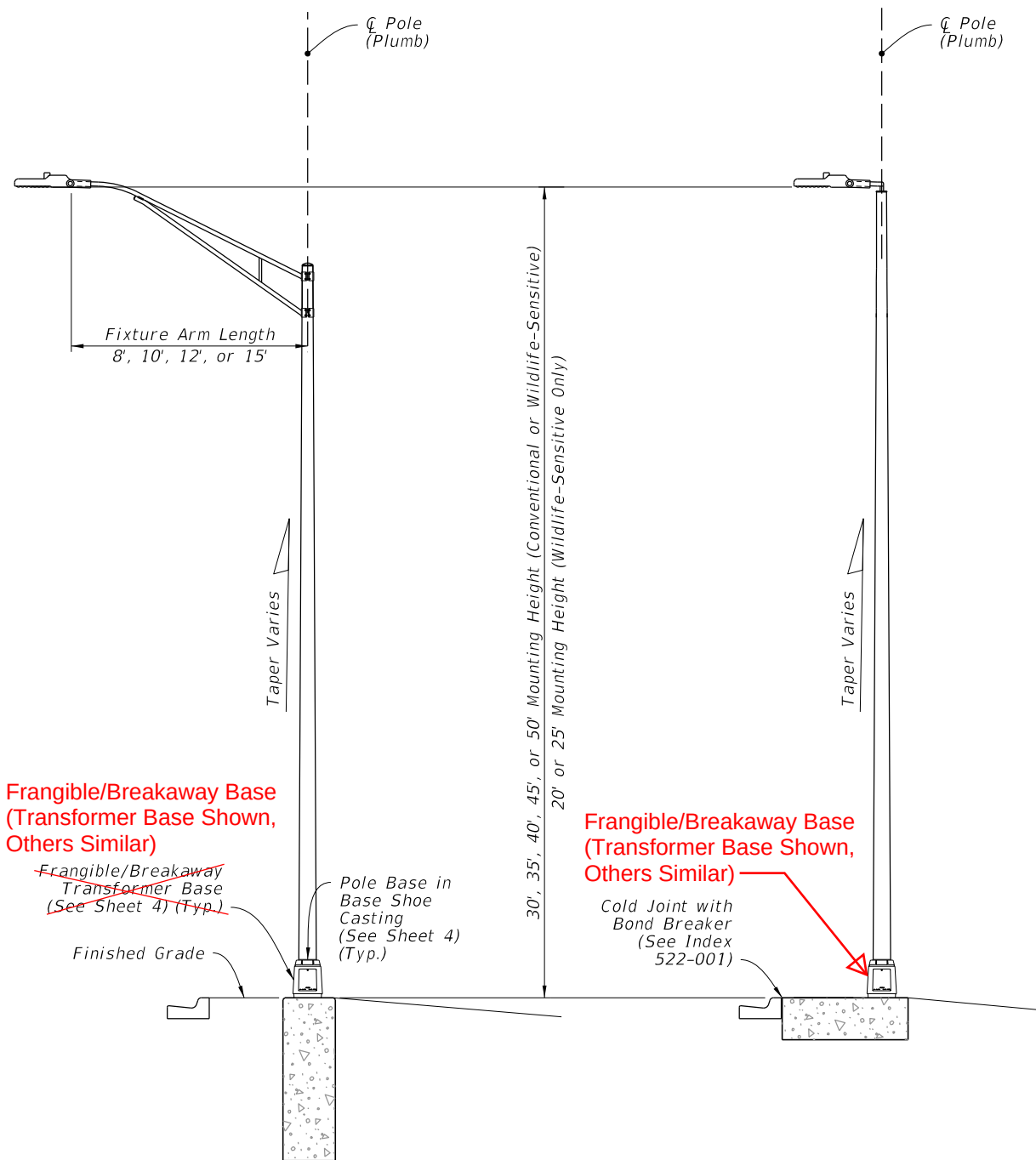
The fabricator's Department-approved QC Plan must contain the following information prior to fabrication:
a. Tests demonstrating a pole with a ¼" wall thickness achieves and ultimate moment capacity of 36 kip*ft in the strong axis and 30 kip*ft in the weak axis.
b. Tests demonstrating a pole with a ⅝" 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 ⅛" 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).~~ **as being successfully crash (Task Force 13, LBT08 Transformer Base shown, others similar).**
iii. Do not erect pole without Luminaire attached.
or MASH
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.

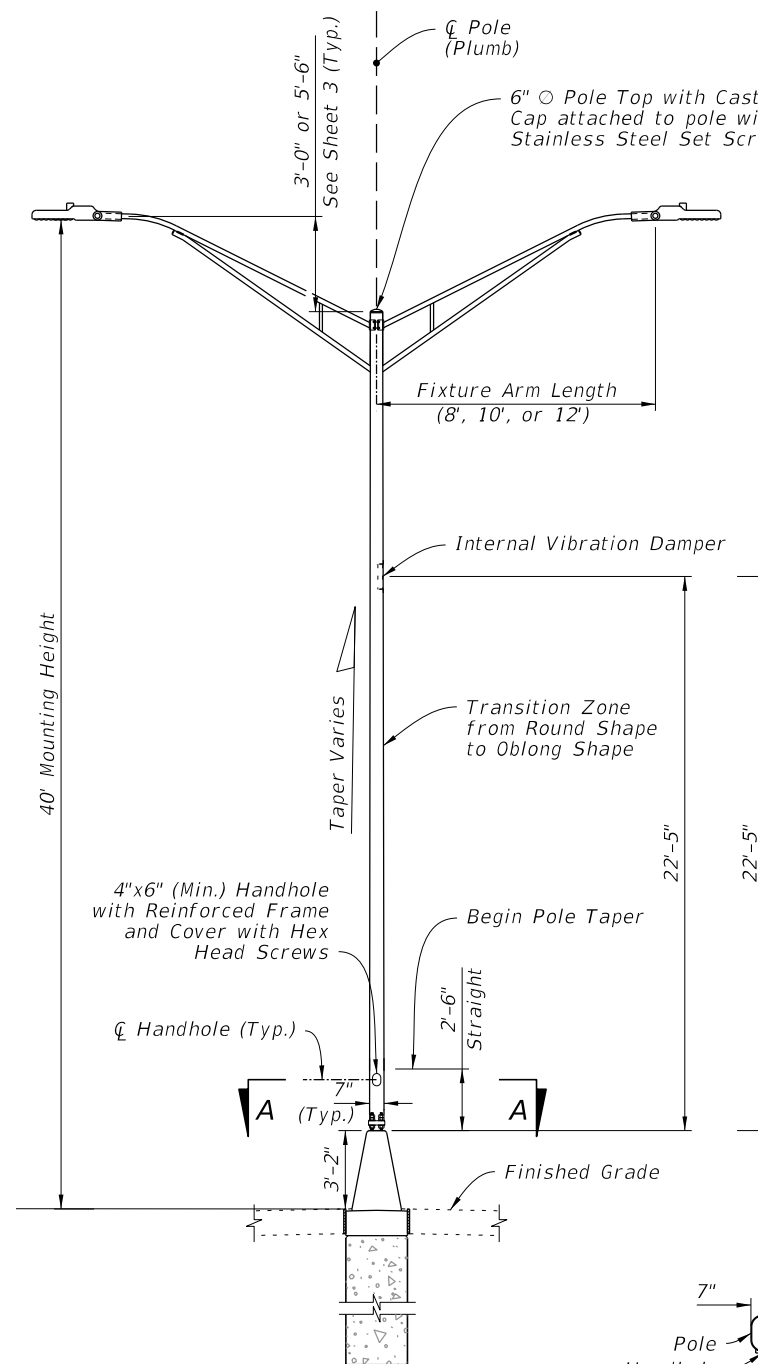
160 MPH
Brevard, Broward, Charlotte, Collier, Escambia, Indian River, Lee, Martin, Miami-Dade, Monroe, Palm Beach, Sarasota and St. Lucie Counties.

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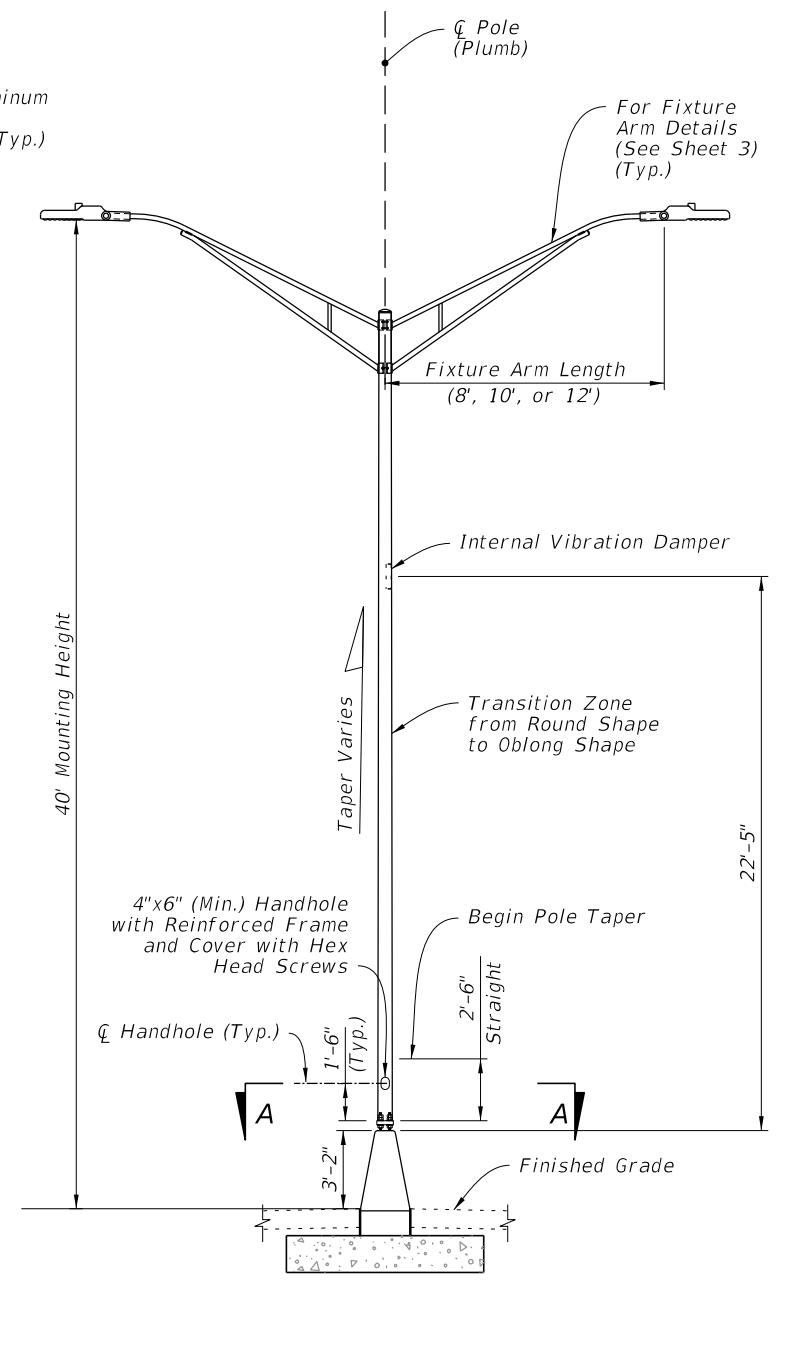


STANDARD ROADWAY ALUMINUM
LIGHT POLE WITH ARM
(Shaft Foundation Option Shown,
Spread Footing Option Similar)

STANDARD ROADWAY ALUMINUM
LIGHT POLE WITH TOP MOUNT
(Spread Footing Option Shown,
Shaft Footing Option Similar)



MEDIAN BARRIER MOUNTED
ALUMINUM LIGHT POLE
ON CYLINDRICAL FOUNDATION
(Double-Arm Shown, Single-Arm
and Top Mount Similar)

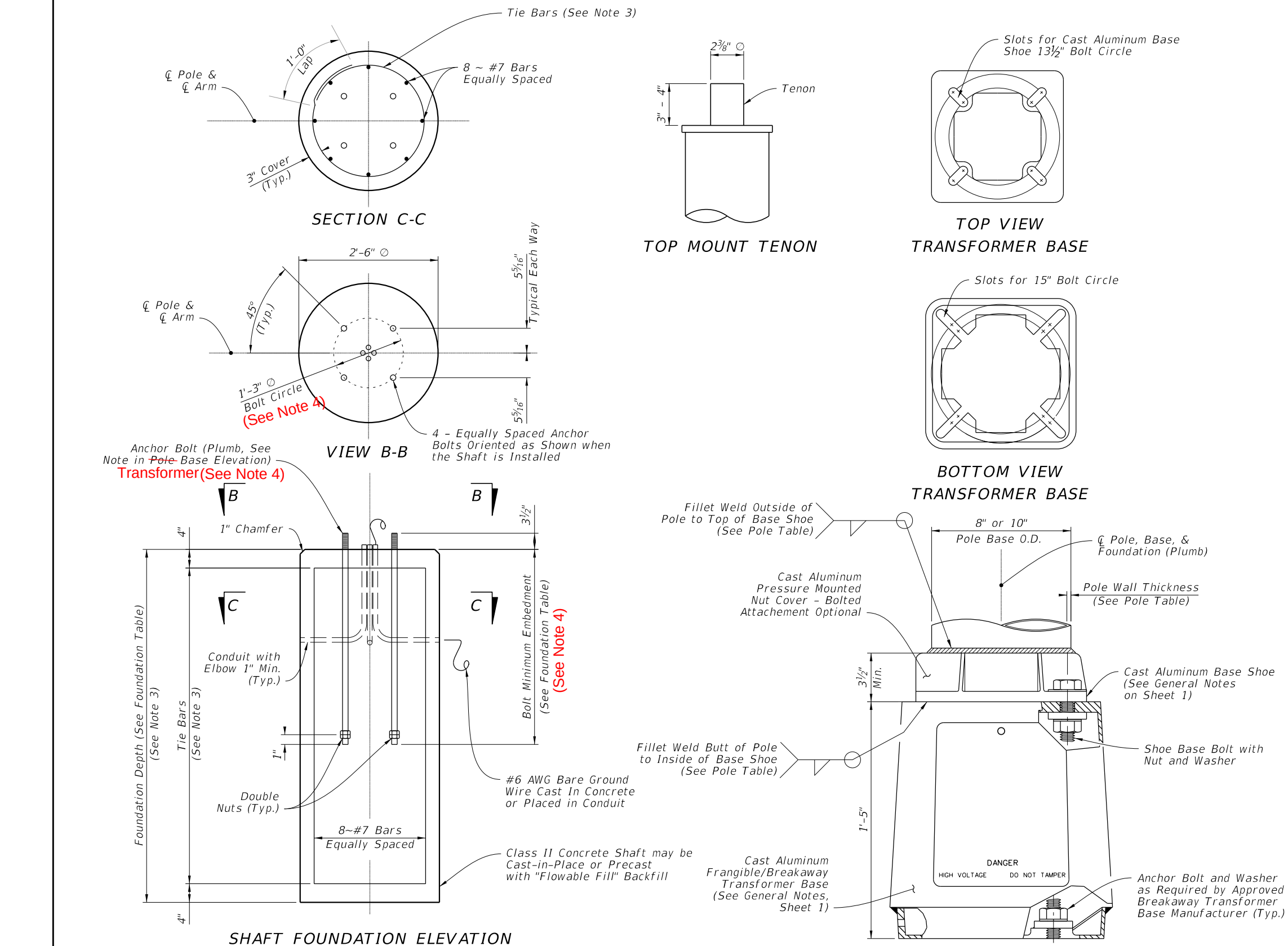


MEDIAN BARRIER MOUNTED
ALUMINUM LIGHT POLE
ON SPREAD FOOTING FOUNDATION
(Double-Arm Shown, Single-Arm
and Top Mount Similar)

2027-28

ELEVATIONS

LAST REVISION		DESCRIPTION:	FDOT		STANDARD ALUMINUM LIGHTING		INDEX	SHEET
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ARM-POLE TABLE					
FOR STANDARD ALUMINUM LIGHT POLES WITH ARM					
Mounting Height (Ft.)	Wind Speed and Arm Lengths (Ft.)				
	120 mph	140 mph	160 mph		
8, 10, 12, 15	8, 10, 12, 15	8, 10, 12, 15	8, 10, 12, 15		
30	A1-P1	A1-P1	A2-P1	A1-P1	A2-P1
35				A1-P2	A2-P2
40					
45	A1-P2	A1-P2	A2-P2	A1-P3	A2-P3
50					

- 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 P0.

POLE TABLE			
Pole	Pole Wall Thickness	Top of Base Shoe Weld	Inside of Base Shoe Weld
P0	0.156	3/16"	5/32"
P1	0.156	3/16"	5/32"
P2	0.250	1/4"	1/4"
P3	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 Height (Ft.)	Wind Speed		
	120 mph	140 mph	160 mph
20	Pole P0	Pole P0	Pole P0
25			
30			
35	Pole P1	Pole P1	Pole P1
40			
45			
50	Pole P2	Pole P2	Pole P2

SHAFT FOUNDATION TABLE				
Pole	P0	P1	P2	P3
Depth	6'-0"	7'-0"	8'-0"	8'-0"
Bolt Min. Embedment	2'-6"	3'-6"	3'-6"	3'-6"

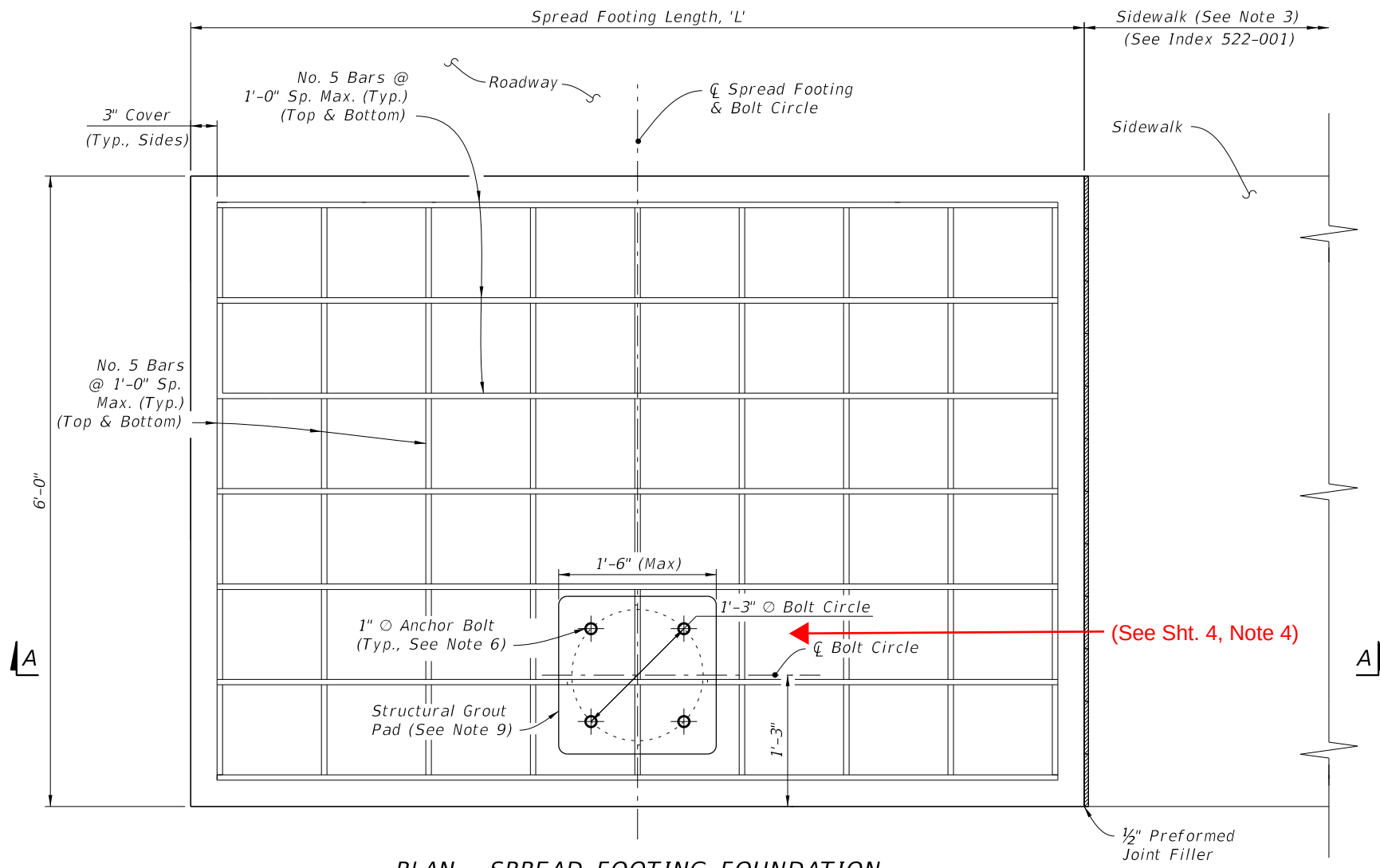
SHAFT FOUNDATION OPTION WITH LIGHT POLE & BASE DETAILS

SHAFT FOUNDATION NOTES:

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 $\geq$ 2'-6". Use the same reinforcing diameter and centered placement with a minimum 3" cover.
4. The Transformer Base shown may be substituted by different frangible base options listed on the APL. Use Anchor Bolt Circle Diameter (BCD), embedment depths, and materials as required for proprietary designs.

(See Note 4)

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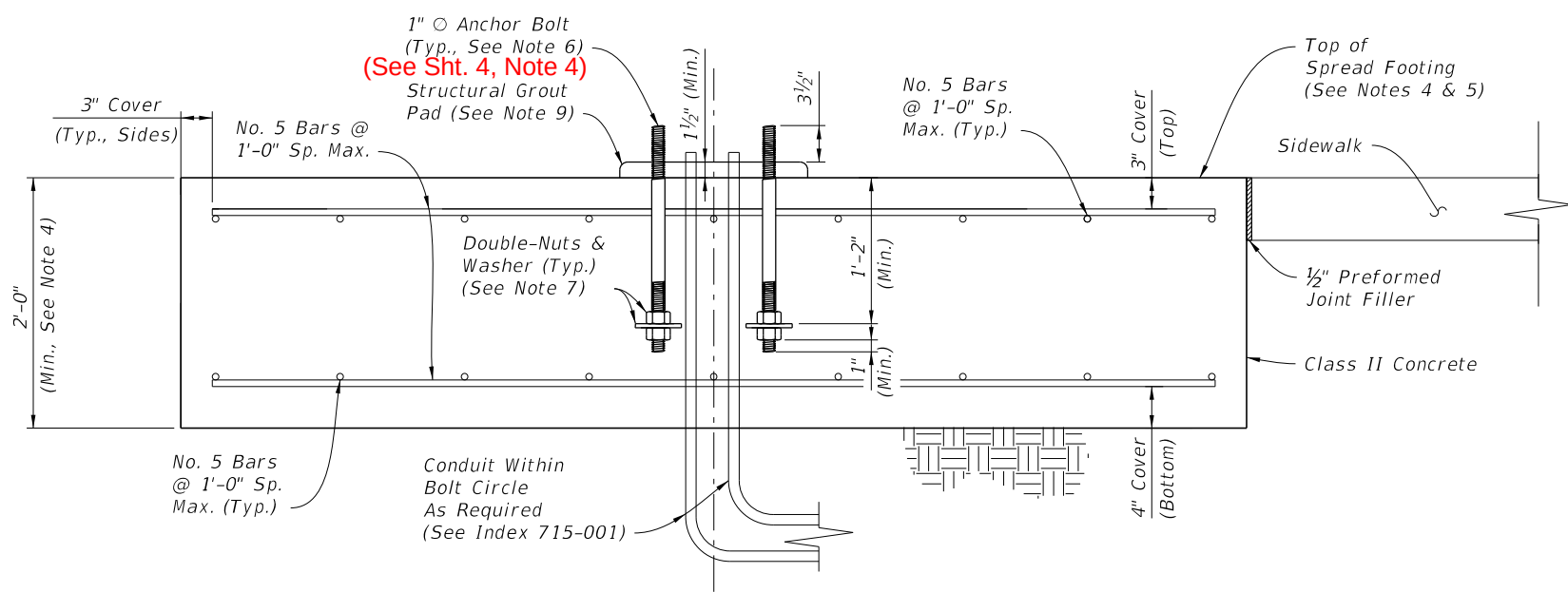


PLAN - SPREAD FOOTING FOUNDATION

SPREAD FOOTING LENGTH, 'L'			
Mounting Height (Ft.)	Wind Speed (All Arm Lengths)		
	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 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 1/2" 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.



SECTION A-A - SPREAD FOOTING FOUNDATION ELEVATION

SPREAD FOOTING FOUNDATION OPTION

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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 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
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 to simplify fabrication.
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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):
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 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 ⅝" 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 ⅛" 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 Base, and Base Shoe Design are capable of providing the required capacity.
ii. Use a frangible base connection as listed on the APL. The base must be recognized by FHWA as being successfully crash tested under NCHRP Report 350 or MASH Guidelines (Task Force 13, LBT08 Transformer Base shown, others similar).
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.



FY 2027-28
STANDARD PLANS

STANDARD ALUMINUM LIGHTING

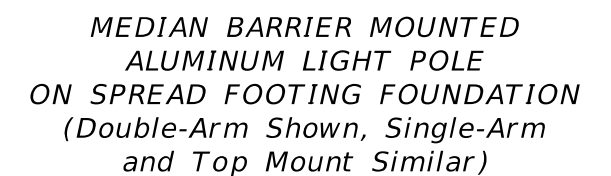
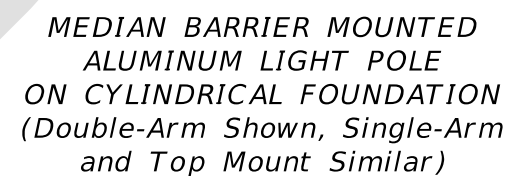
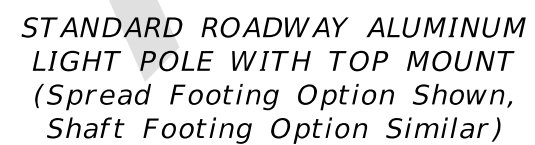
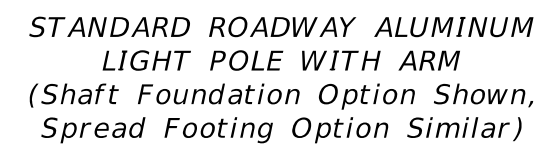
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LAST
REVISION
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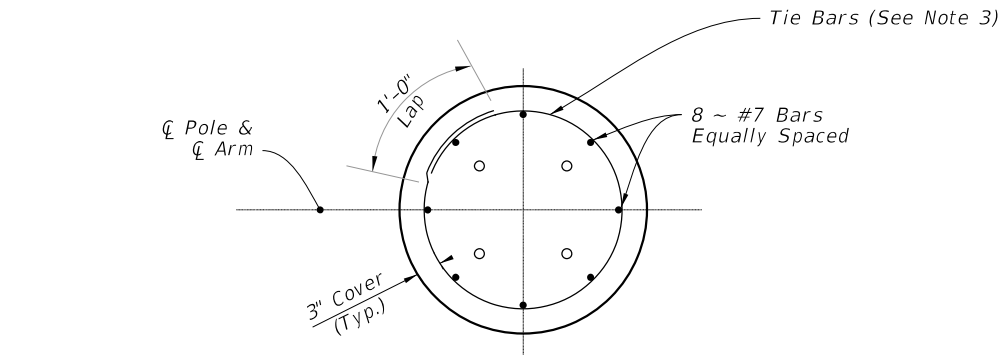
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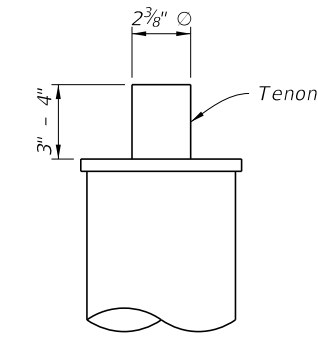


LAST REVISION 11/01/26	REVISION	DESCRIPTION:	 FY 2027-28 STANDARD PLANS	STANDARD ALUMINUM LIGHTING	INDEX 715-002	SHEET 2 of 9
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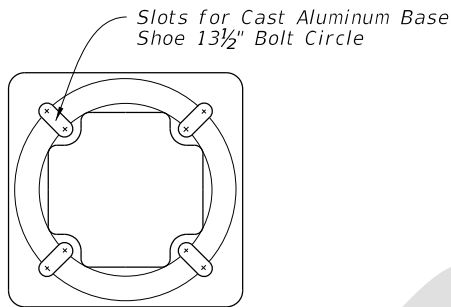
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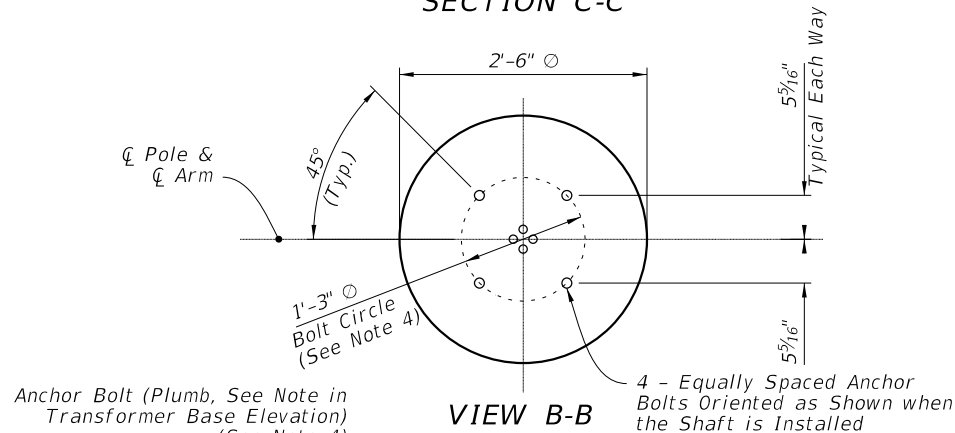
SECTION C-C



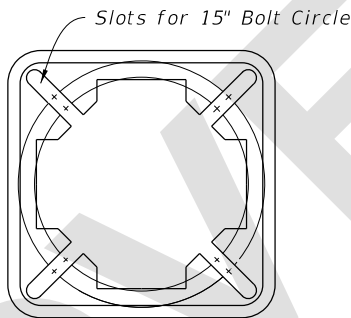
TOP MOUNT TENON



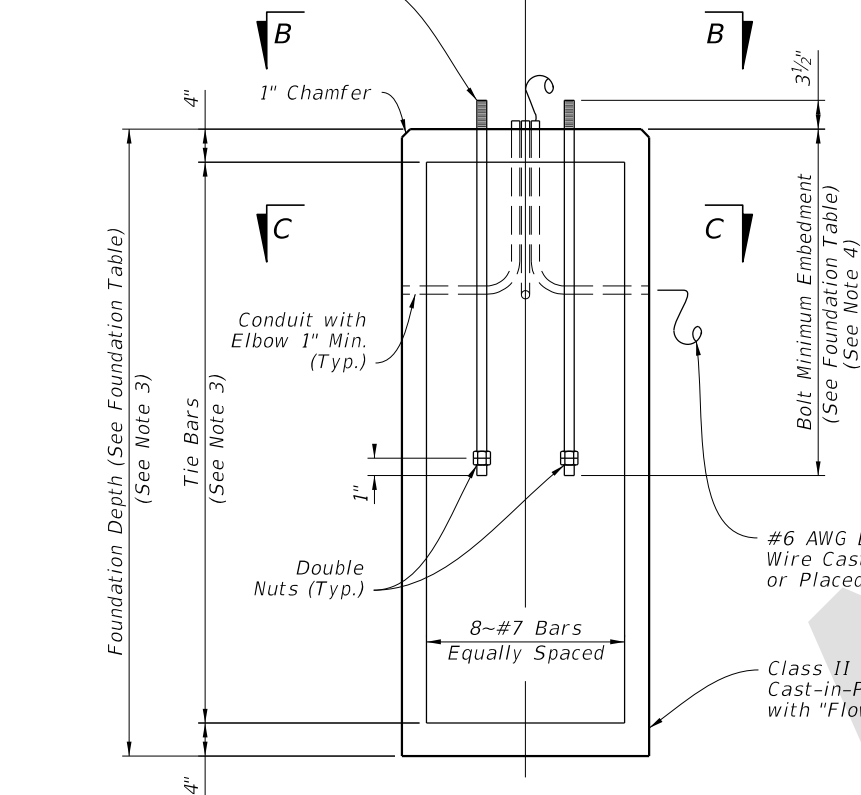
TOP VIEW
TRANSFORMER BASE



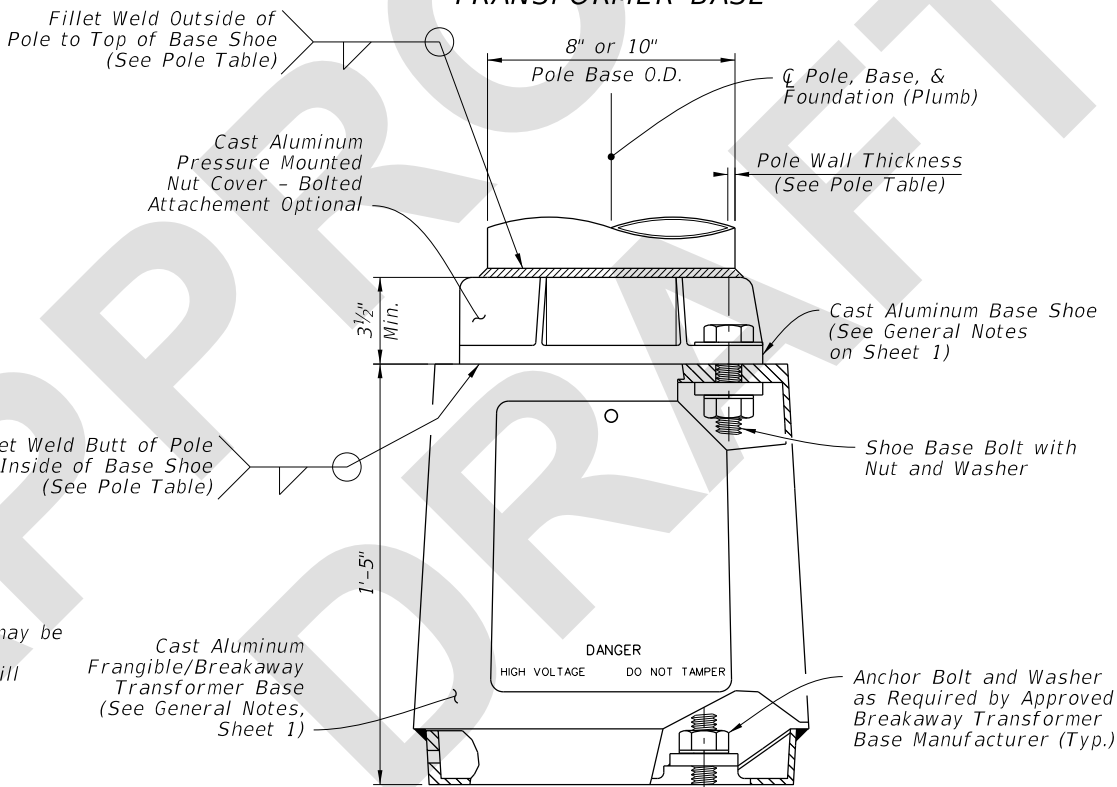
VIEW B-B



BOTTOM VIEW
TRANSFORMER BASE



SHAFT FOUNDATION ELEVATION



TRANSFORMER BASE ELEVATION
(See Note 4)

SHAFT FOUNDATION NOTES:

- Foundation 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.
- 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.
- 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 $\geq$ 2'-6". Use the same reinforcing diameter and centered placement with a minimum 3" cover.
- The Transformer Base shown may be substituted by different frangible base options listed on the APL. Use Anchor Bolt Circle Diameter (BCD), embedment depths, and materials as required for proprietary designs.

ARM-POLE TABLE

FOR STANDARD ALUMINUM LIGHT POLES WITH ARM

Mounting Height (Ft.)	Wind Speed and Arm Lengths (Ft.)				
	120 mph	140 mph	160 mph		
30	A1-P1	A1-P1	A2-P1	A1-P1	A2-P1
35				A1-P2	A2-P2
40					
45	A1-P2	A1-P2	A2-P2	A1-P3	A2-P3
50					

ARM POLE NOTES:

- See ARM SECTION detail on Sheet 3 for all A1 and A2 Values.
- See Pole Table for all P1, P2, and P3 values.
- For Median Barrier Mounted Pole, Use Arm A1.
- For 20' and 25' assembly heights use only 8' or 10' arm A1 with P0.

POLE TABLE

Pole	Pole Wall Thickness	Top of Base Shoe Weld	Inside of Base Shoe Weld
P0	0.156	3/16"	5/32"
P1	0.156	3/16"	5/32"
P2	0.250	1/4"	1/4"
P3	0.313	5/16"	5/16"

POLE NOTES:

- Pole wall thicknesses shown are nominal and must be within the Aluminum Association tolerances.
- 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 Height (Ft.)	Wind Speed		
	120 mph	140 mph	160 mph
20	Pole P0	Pole P0	Pole P0
25			
30			
35	Pole P1	Pole P1	Pole P1
40			
45	Pole P2	Pole P2	Pole P2
50			

SHAFT FOUNDATION TABLE

Pole	P0	P1	P2	P3
Depth	6'-0"	7'-0"	8'-0"	8'-0"
Bolt Min. Embedment (See Note 4)	2'-6"	3'-6"	3'-6"	3'-6"

SHAFT FOUNDATION OPTION
WITH LIGHT POLE & BASE DETAILS



FY 2027-28
STANDARD PLANS

STANDARD ALUMINUM LIGHTING

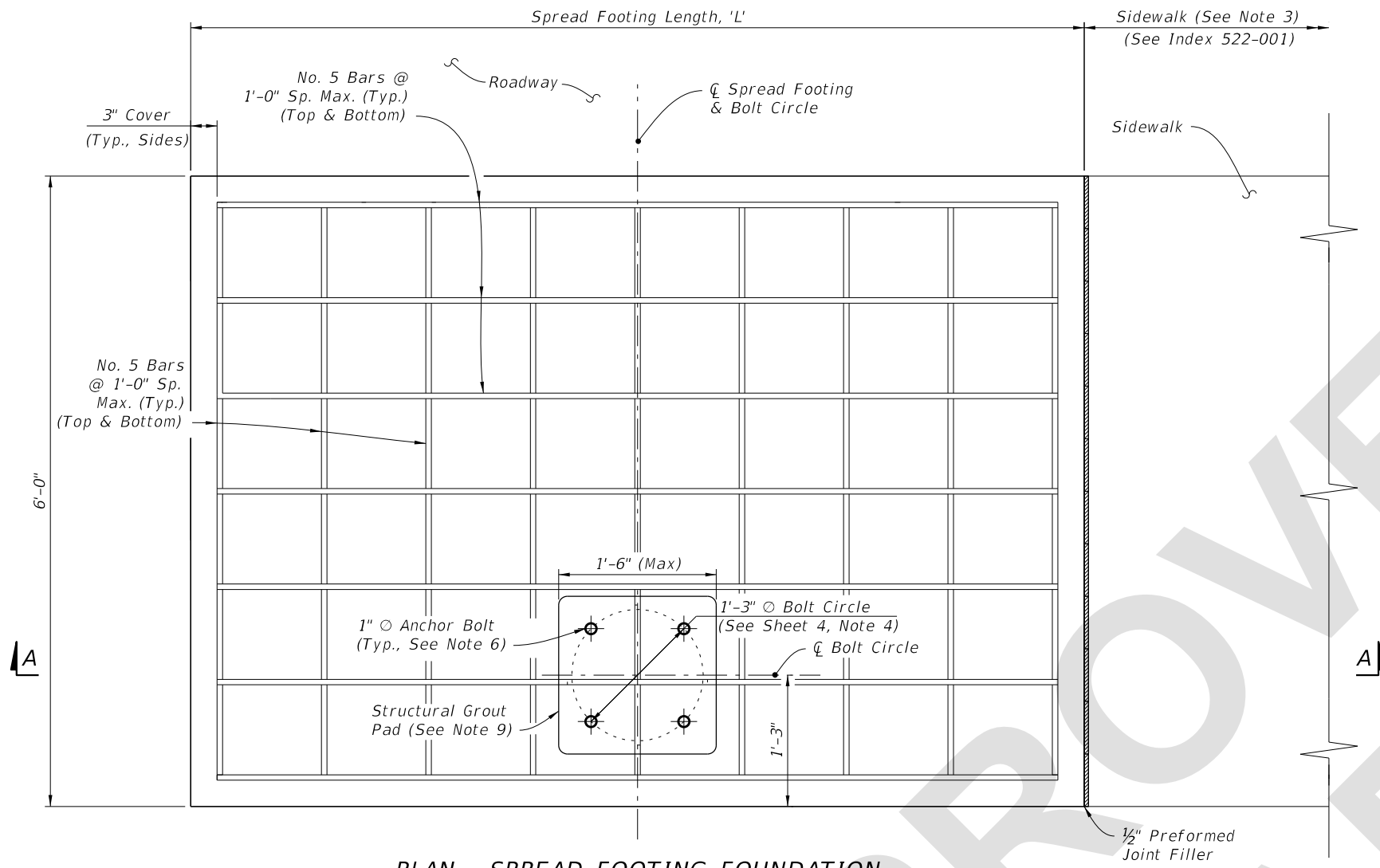
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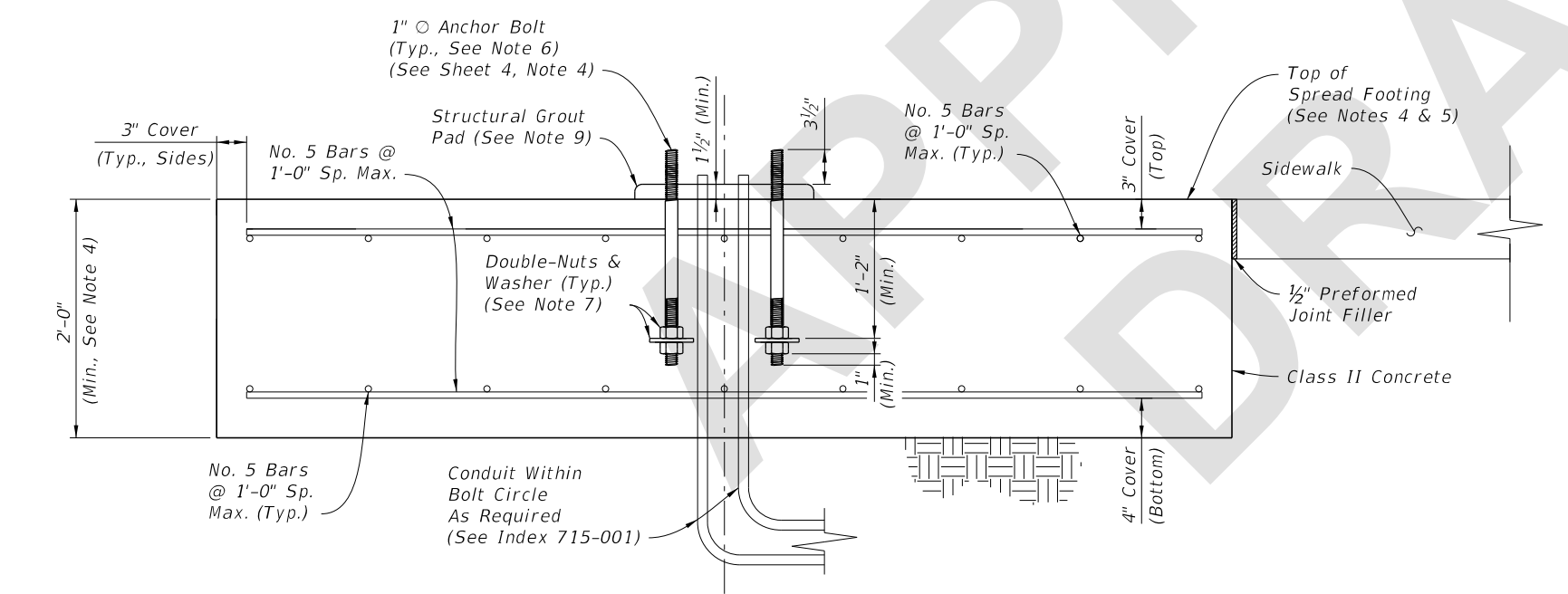
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PLAN - SPREAD FOOTING FOUNDATION



SECTION A-A - SPREAD FOOTING FOUNDATION ELEVATION

SPREAD FOOTING LENGTH, 'L'			
Mounting Height (Ft.)	Wind Speed (All Arm Lengths)		
	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 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 1/2" 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