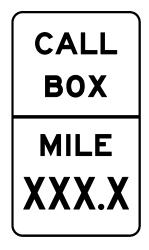
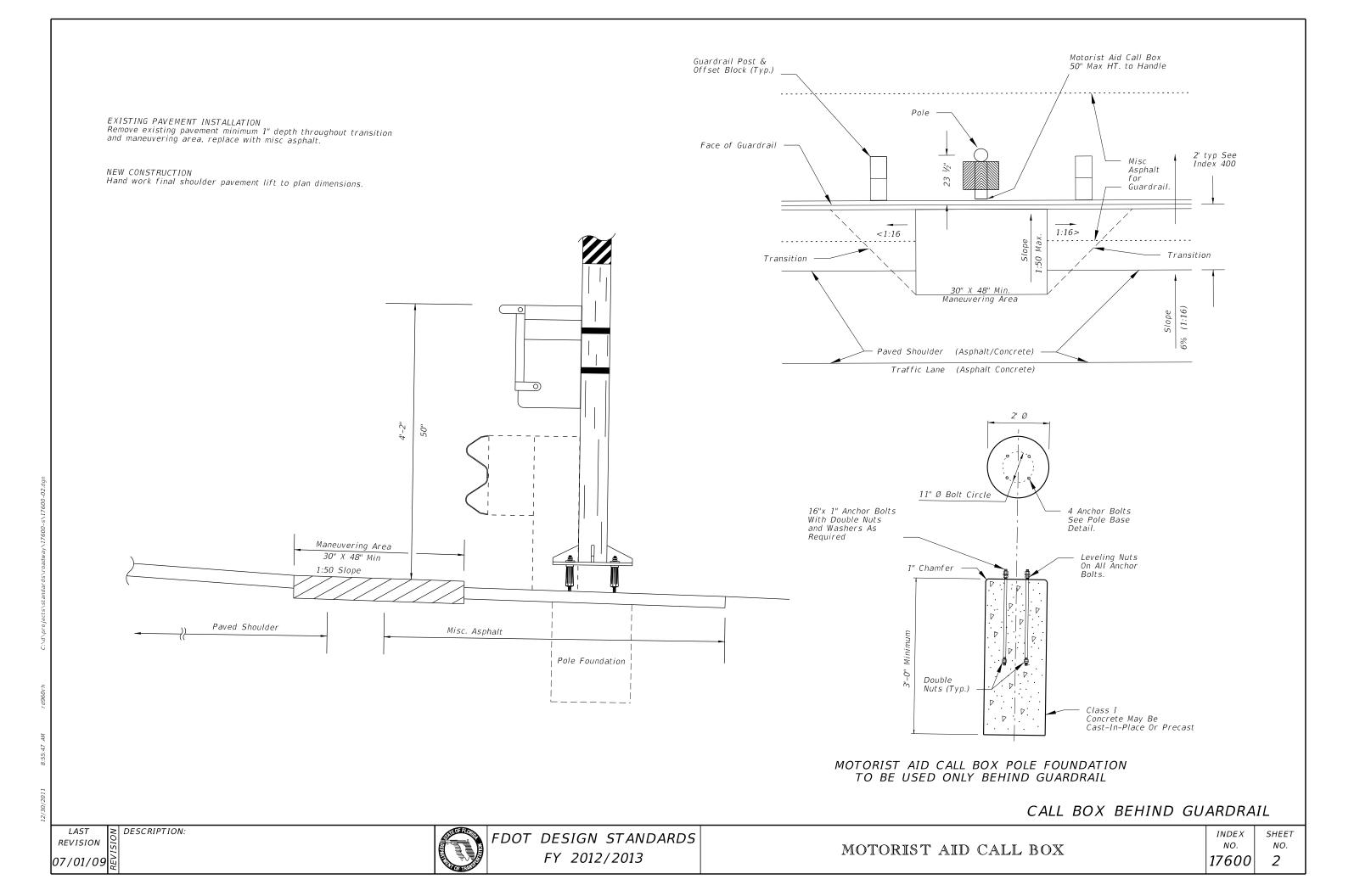


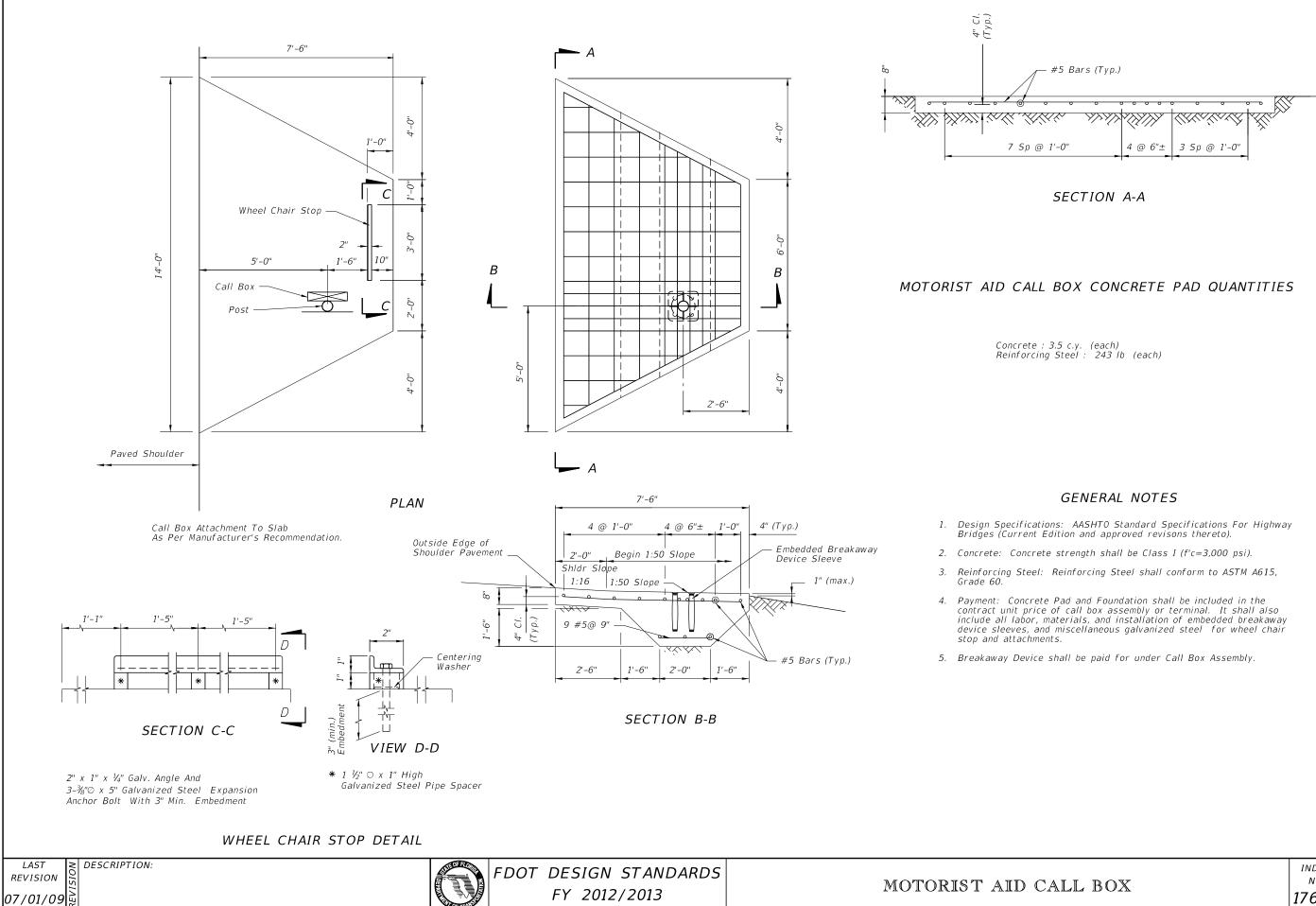
FTP-63-06 SIGN A



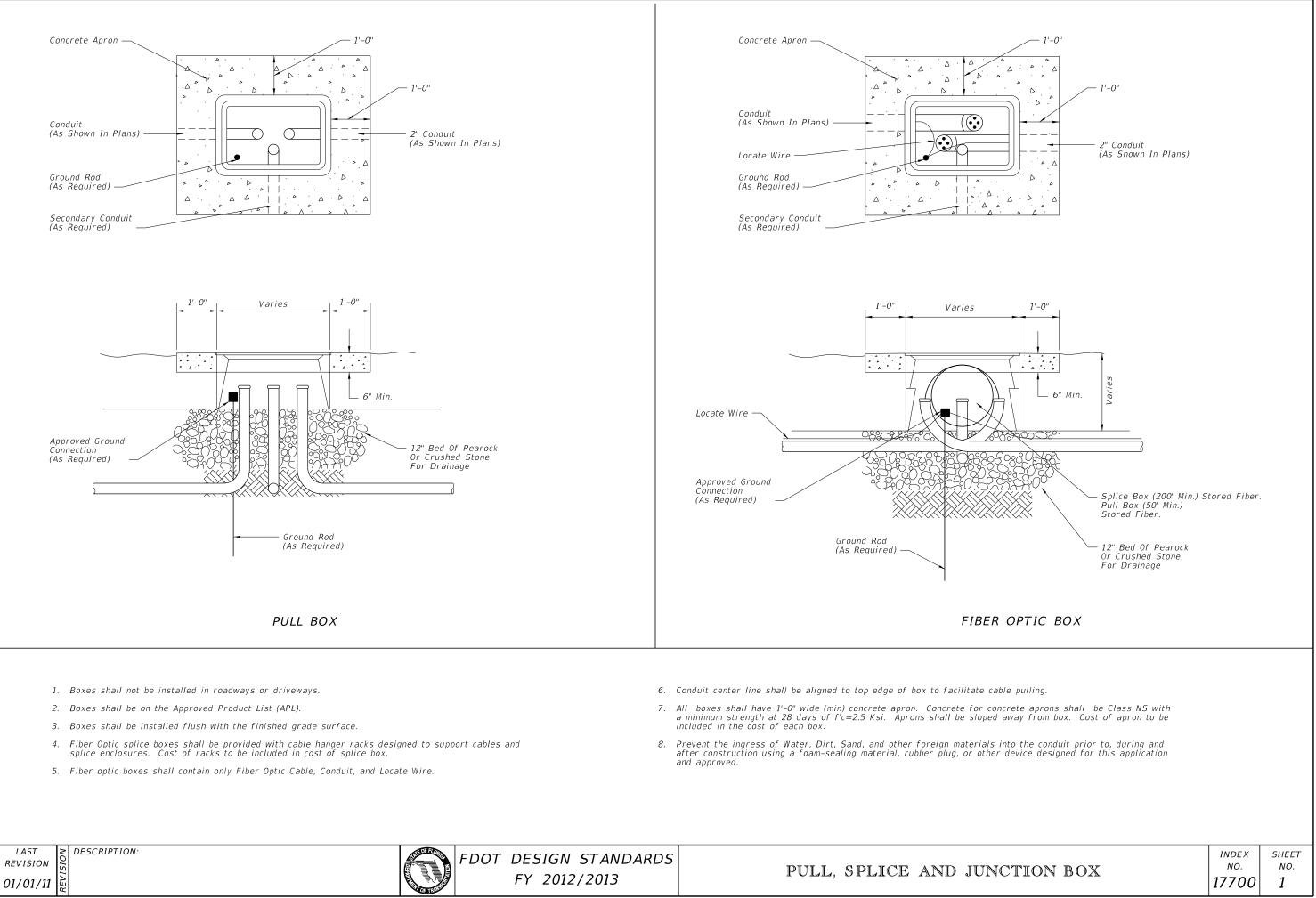
FTP-64-06 SIGN B

	INDEX	SHEET
LL BOX	NO.	NO.
	17600	1



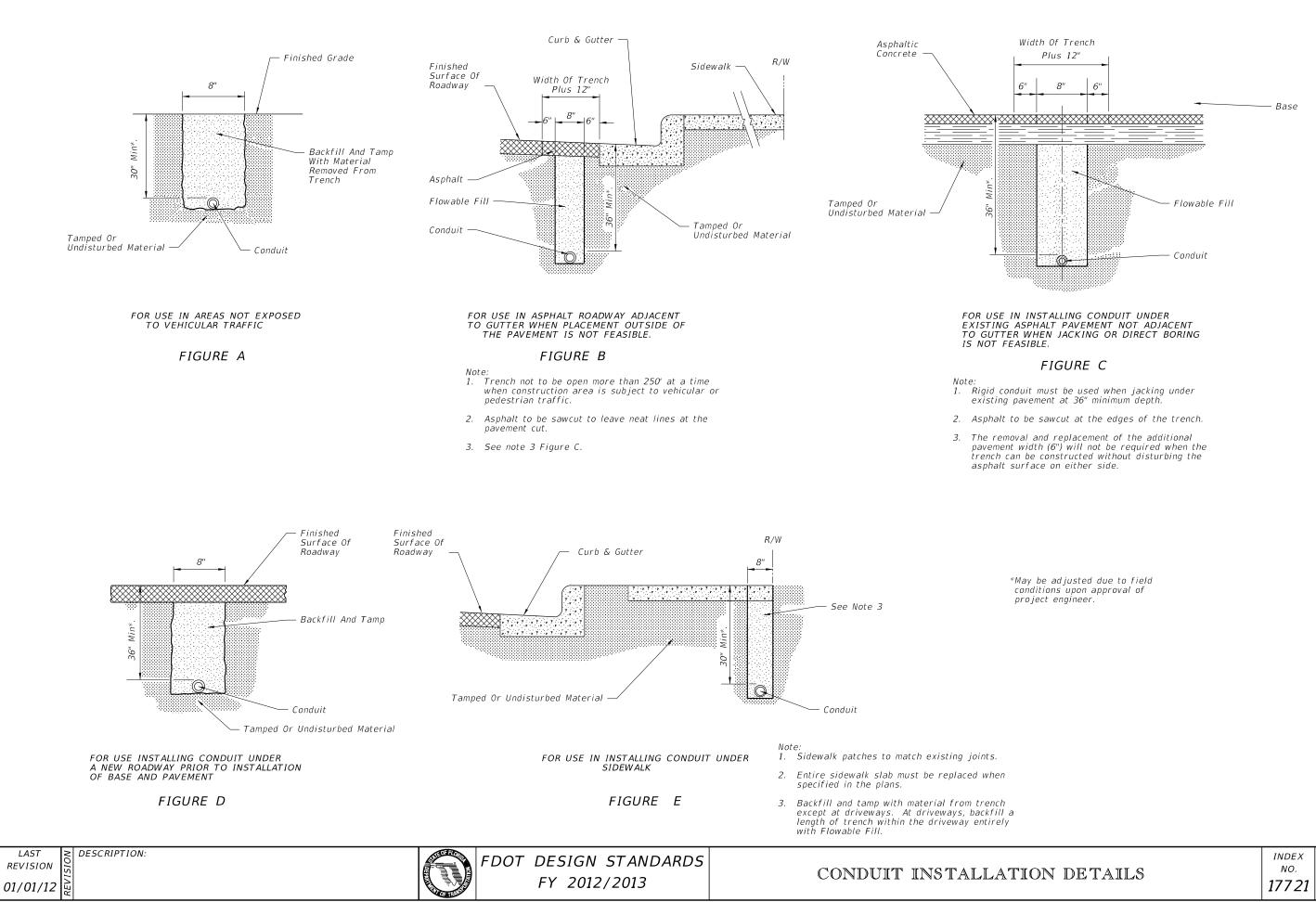


	INDEX	SHEET
LI. BOX	NO.	NO.
LL BOX	17600	3

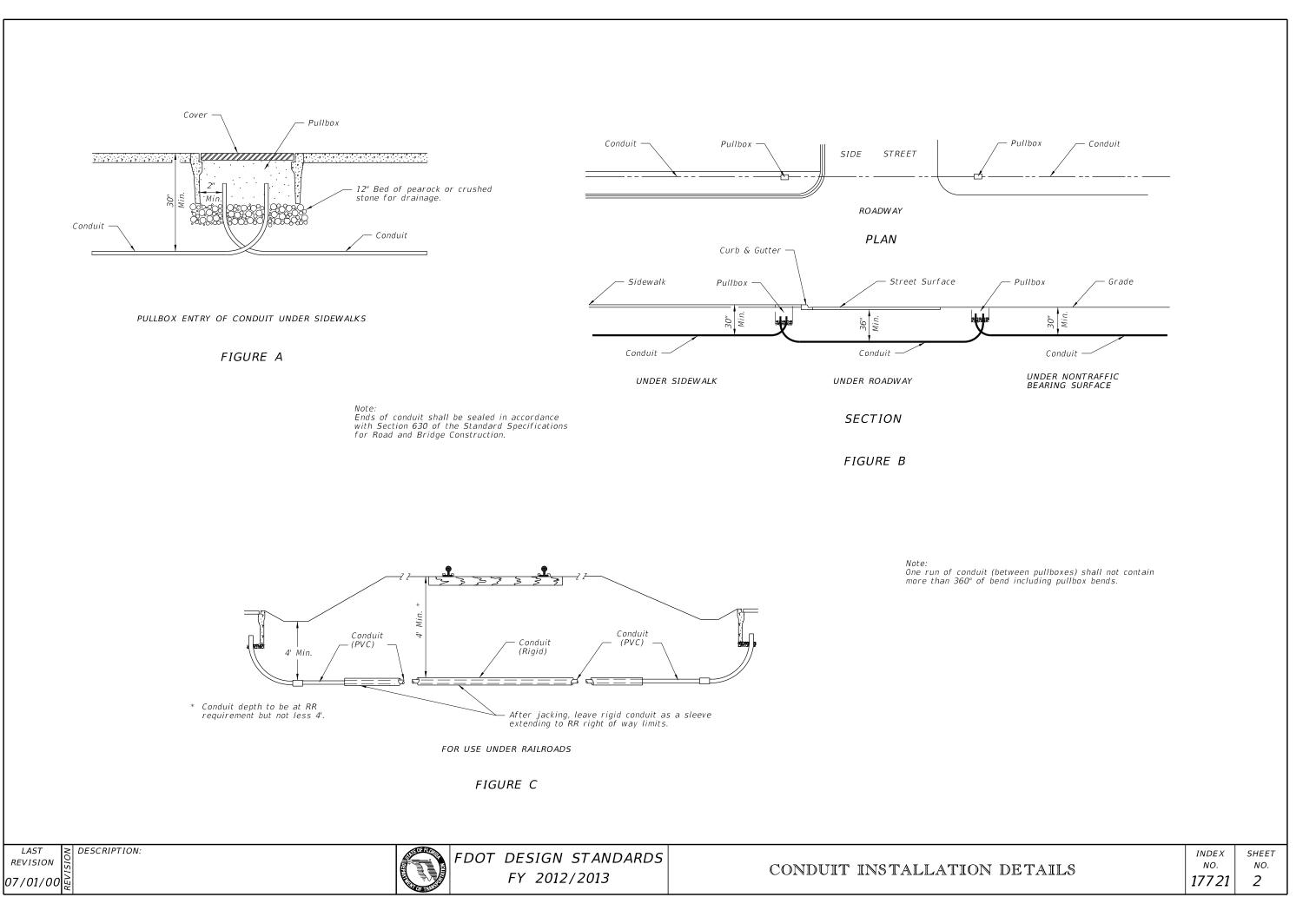


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	INDEX	SHEET
N DETAILS	NO.	NO.
	<i>17721</i>	1
N DETAILS	NO.	0



STEEL STRAIN POLE NOTES

1) Designed in accordance with FD0T Structures Manual

- 2) Perform all welding in accordance with the American Welding Society Structural Welding Code (Steel) ANSI/AWS D1.1 (current edition). No Field welding is permitted on any part of the pole.
- 3) See Standard Index No. 17727 for grounding and span wire details.
- 4) Foundation Materials:
 - a.
 - Reinforcing Steel: ASTM A615 Grade 60. Concrete: Class IV, (Drilled Shaft) 4,000 psi (f'c) minimum Compressive Strength at 28-days for all b. environmental classifications.
 - Anchor Bolts: ASTM F1554 Grade 55 with ASTM A563 Grade A heavy-hex nuts and plate washers (all С. galvanized in accordance with ASTM F2329).
- 5) Strain Pole Specifications: a. Poles: ASTM A1011 Grade 50, 55, 60 or 65 (less than $\frac{1}{4}$) or ASTM A572 Grade 50, 55, 60, or 65 (1/4" and over) or ASTM A595 Grade A (55 ksi yield) or Grade B (60 ksi yield).
 - Steel Plates: ASTM A36. Weld Metal: E70XX. h
 - С.
 - Bolts: A325, Type 1. Hole Diameter: Bolt diameter plus $\frac{1}{16}$ ". d. Base Plate: Hole Diameter; anchor bolt diameter plus 1
 - е. Handhole: Frame; ASTM A709 Grade 36 or ASTM A36, Cover; ASTM A1011 Grade 50, 55, 60 or 65.
 - Aluminum Caps and Covers: ASTM B-26 (319-F).
 - Stainless Steel Screws: AISI Type 316. Galvanization: All nuts, bolts and washers; ASTM F2329, All other steel; ASTM A123.
- 6) Pole Notes:
 - a. See the Signalization Plans for clamp spacing, cable sizes and forces, signal and sign
 - mounting locations and details.
 - b.
 - Tapered with the diameter changing at a rate of 0.14 inch per foot. Transverse welds are allowed only at the base. Poles constructed out of two or more sections with overlapping splices are not d. permitted.

 - Locate the handhole 180 degrees from 2-inch wire entrance pipe. Furnish each pole with a 2"x4" (max) aluminum identification tag. Submit details for approval. Secure to pole with 0.125" stainless steel rivets or screws. Locate Identification Tag on the inside of pole and visible from handhole. Include the following information: Financial Project ID, Pole Type, Pole Height, Manufacturer's Name, F of Steel and Base Wall Thickness.
- 7) One hundred percent of full-penetration groove welds and a random 25 percent of partial penetration groove welds shall be inspected. Full-penetration groove weld inspection shall be performed by nondestructive methods of radiography or ultrasonics.
- 8) In accordance with specification 5-1.4.2, shop drawings are only required for additions, deletions, or modifications to this Design Standard.
- 9) Verify CSL access tubes will not interfere with anchor bolt installation before excavating the shaft. When CSL access tube locations conflict with anchor bolt locations, move the CSL access tube location ± two inches along the inner circumference of the reinforcing cage. Notify the Engineer before excavating the shaft if the CSL access tube locations cannot be moved out of conflict with anchor bolt locations.

As required (see Signalization Plans)

(For Single Point Connection)

2" Pipe For Wire Entrance (see Wire Entrance Detail on Sheet 3 of 3) (For Two Point Connection)

Identification Tag - See Note 6.

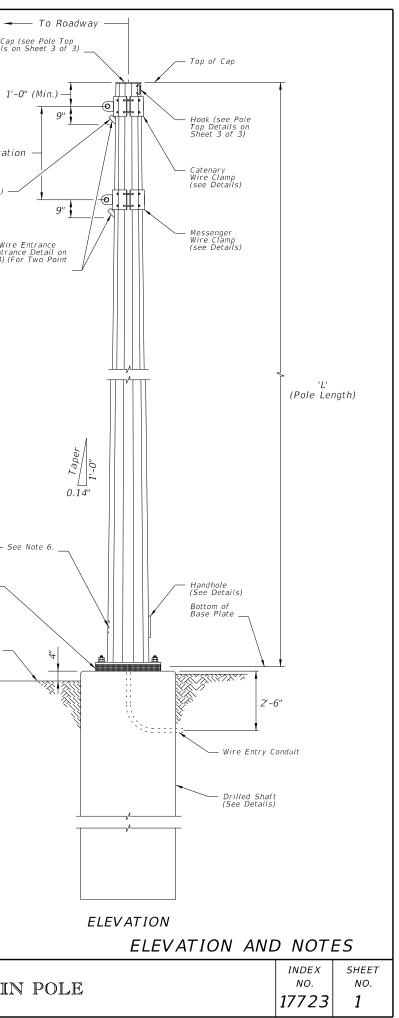
Wire screen see Spec. 649-6

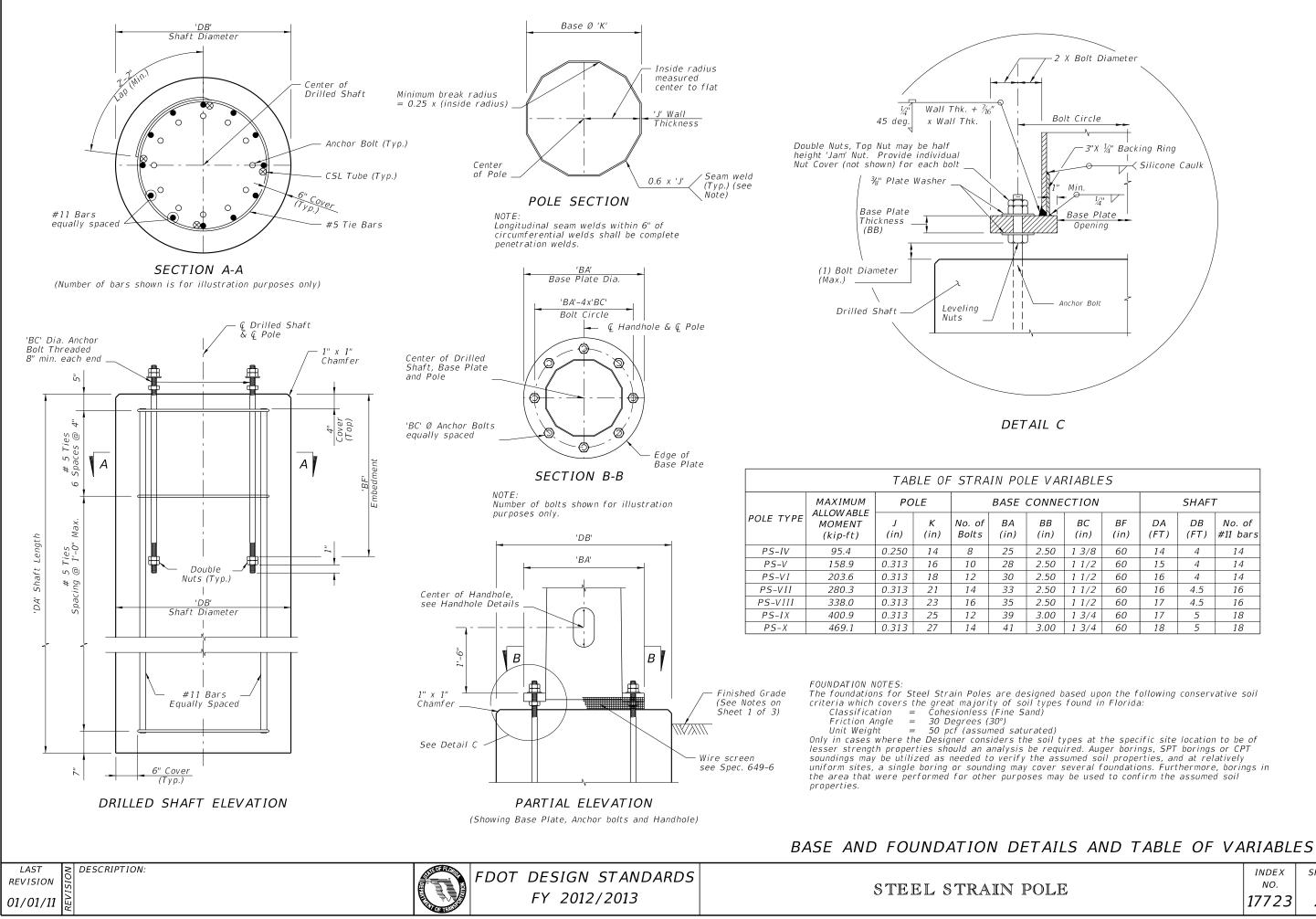
Top of Finished Grade (make Drilled Shaft flush with adjacent concrete slabs, use appropriate expansion joint filler)

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LAST DESCRIPTION: REVISION 01/01/12

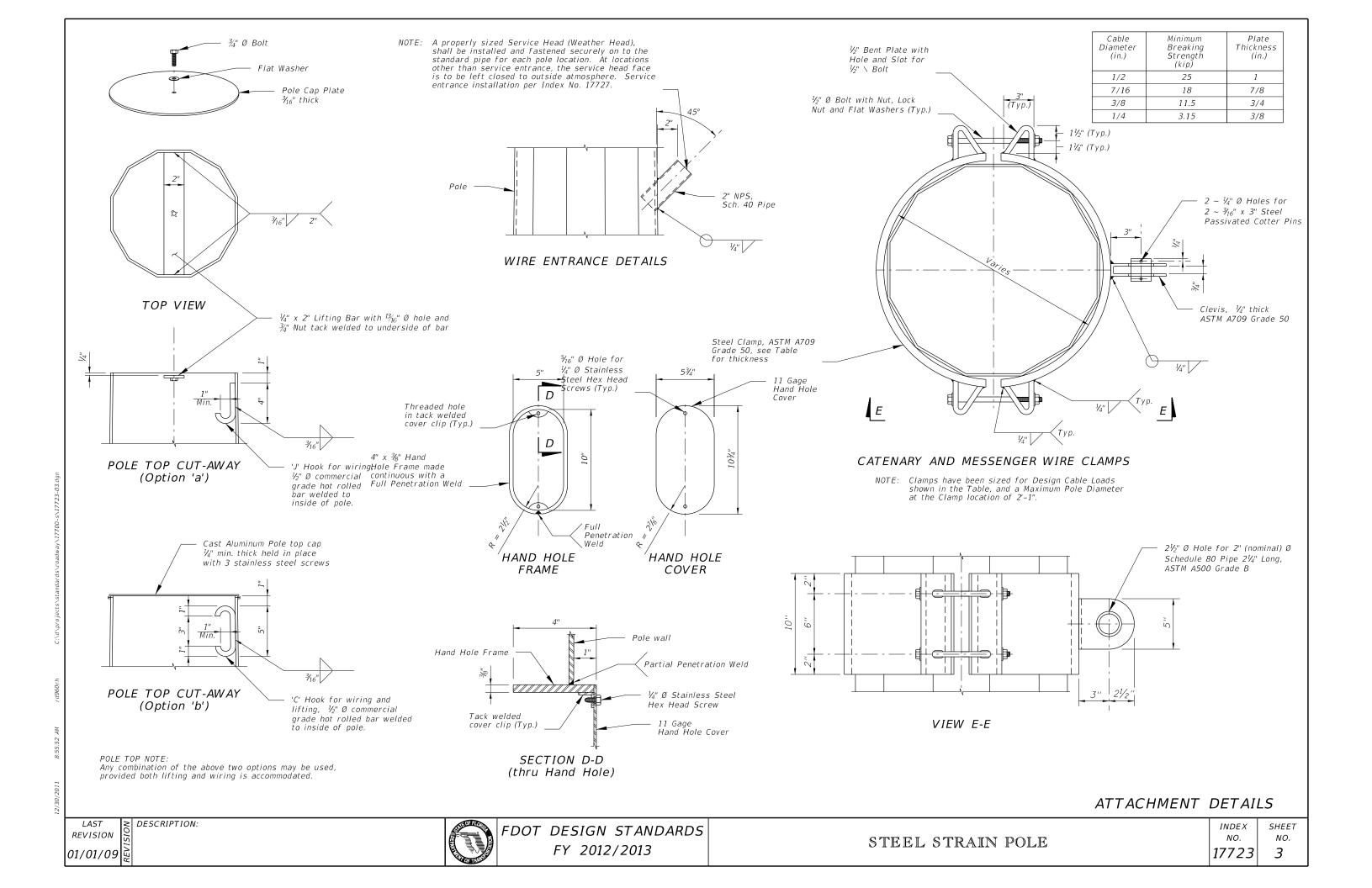






l	LE VARIABLES						
1	CONNECTION SHAFT					-	
	BB (in)	BC (in)	BF (in)	DA (FT)	DB (FT)	No. of #11 bars	
	2.50	1 3/8	60	14	4	14	
	2.50	1 1/2	60	15	4	14	
	2.50	1 1/2	60	16	4	14	
	2.50	1 1/2	60	16	4.5	16	
	2.50	1 1/2	60	17	4.5	16	
	3.00	1 3/4	60	17	5	18	
	3.00	1 3/4	60	18	5	18	

	INDEX	SHEET
POLE	NO.	NO.
	17723	2
	17723	2



GENERAL NOTES:

Materials:

Concrete:	Class V Special or Class VI 6 ksi minimum at 28 days 4 ksi minimum at transfer
Prestressed Strands:	ASTM A416 Grade 270 stress relieved or low relaxation

Spiral Renirol child. ASTM ADZ COld-drawn Steel whe	Spiral	Reinforcing:	ASTM A82	cold-drawn	steel wire
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Provide a minimum concrete cover of 1 inch.

For spiral reinforcing, one turn is required for splices and two turns are required at both the tip and butt ends of the pole.

The design Front Face and Back Face of poles may vary transversely from the section shown by $\pm \frac{1}{4}$ " to assist with removal from forms. Balance addition and subtraction of face widths to maintain section areas shown.

Provide hand hole and coupler cover plates made of non-corrosive materials. Attach cover plates to poles using lead anchors or threaded inserts embedded in the poles in conjunction with round headed chrome plated screws.

Tie ground wires to the interior of reinforcing steel as necessary to prevent displacement during concreting operations.

Provide Identification Markings on the poles where indicated on the following sheets. Include the following information using inset numerals with 1" height:

Financial Project ID Pole Manufacturer Standard Pole Type Number Pole Length (L)

Provide a Class 3 Surface Finish as specified in Section 400–15.2.4 of the Standard Specifications.

Pick-up and support locations shown may vary with a tolerance of \pm 3".

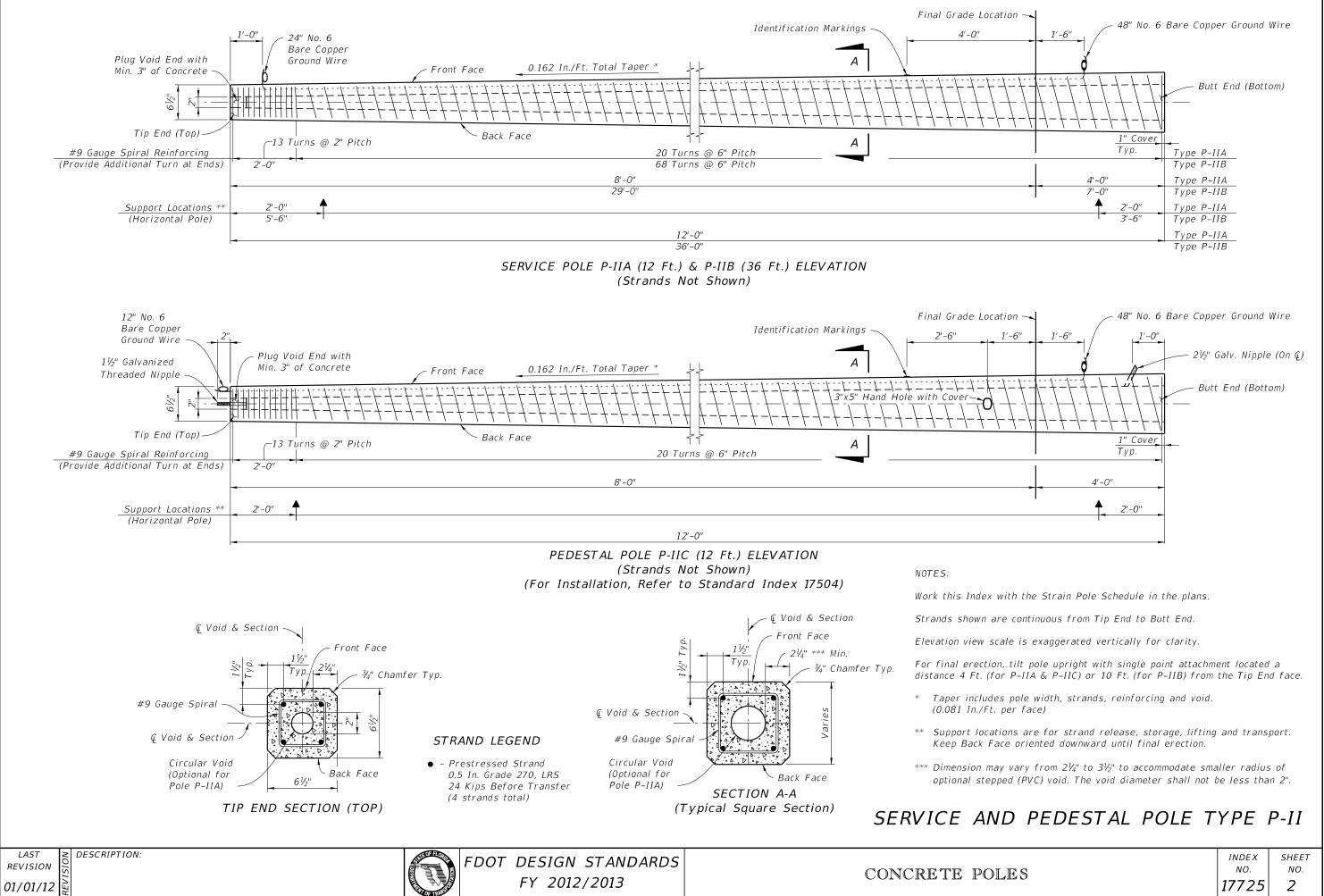
In accordance with Specification 5-1.4.2, shop drawings are only required for additions, deletions, or modifications to this Design Standard.

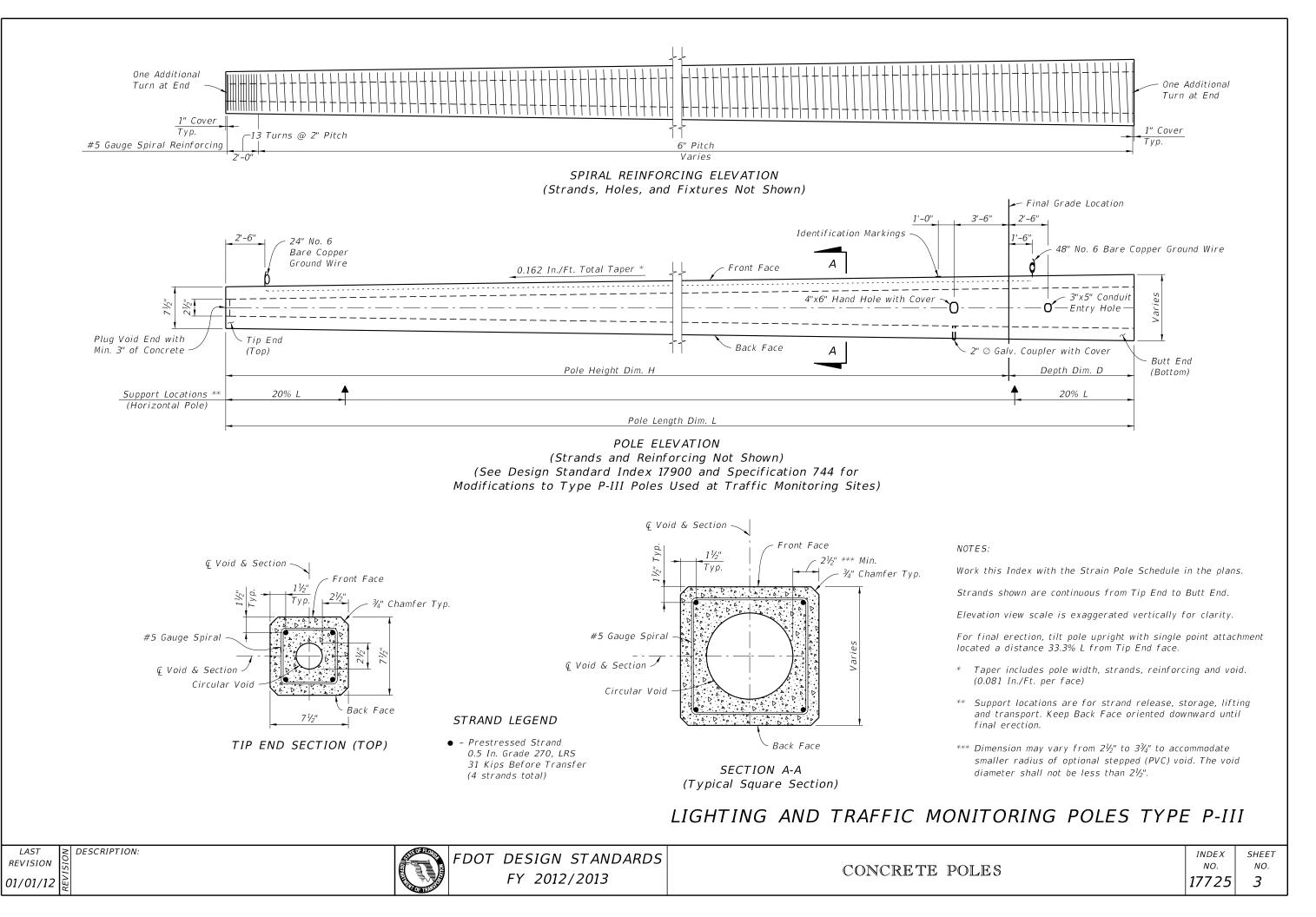
INSTALLATION NOTES:

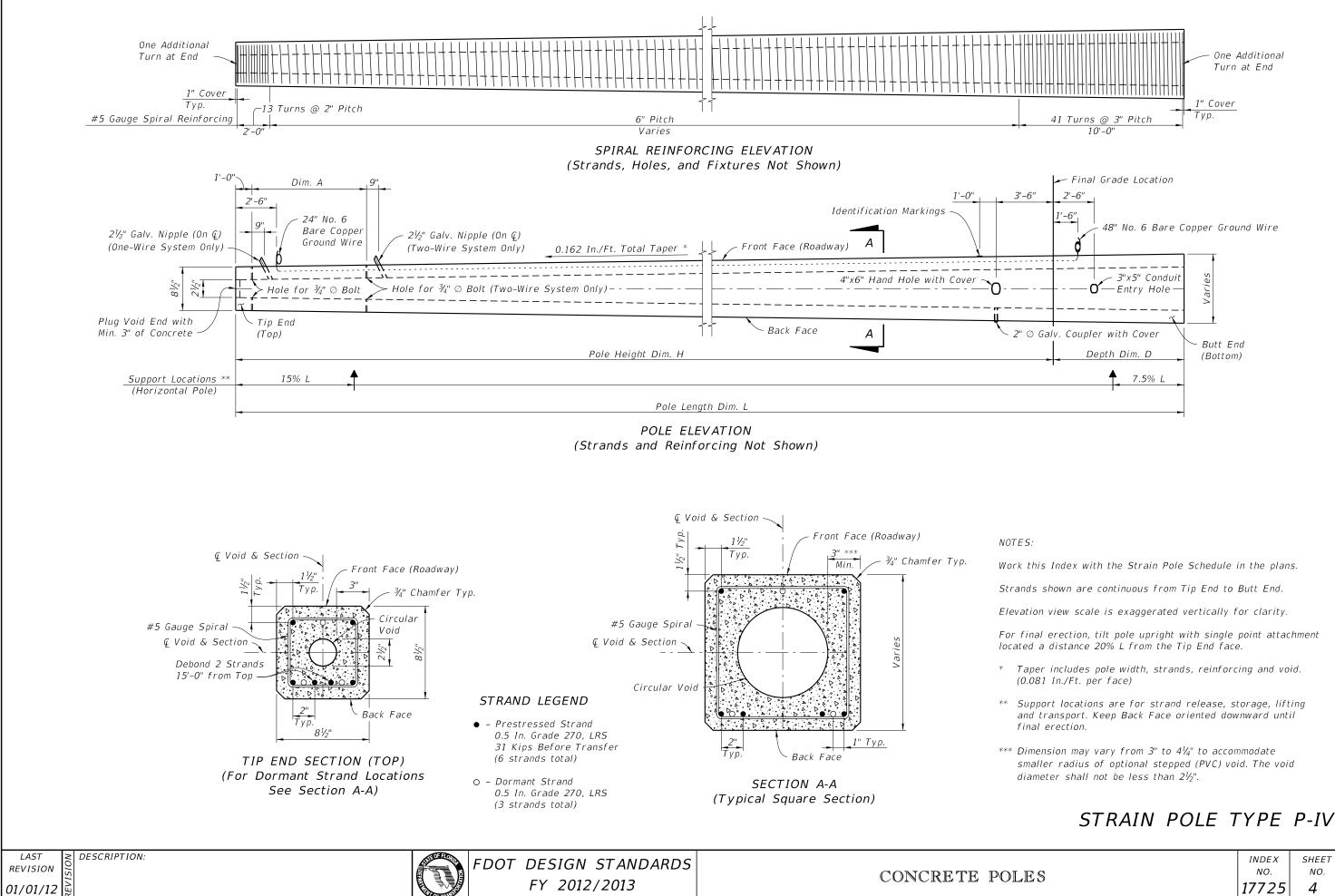
If a two point attachment is required by the plans, provide an eye bolt hole for the messenger wire or field-drill at the location indicated in the plans. When required, field-drill the eyebolt hole for the tether wire prior to installation.

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VI OF TRANSIE

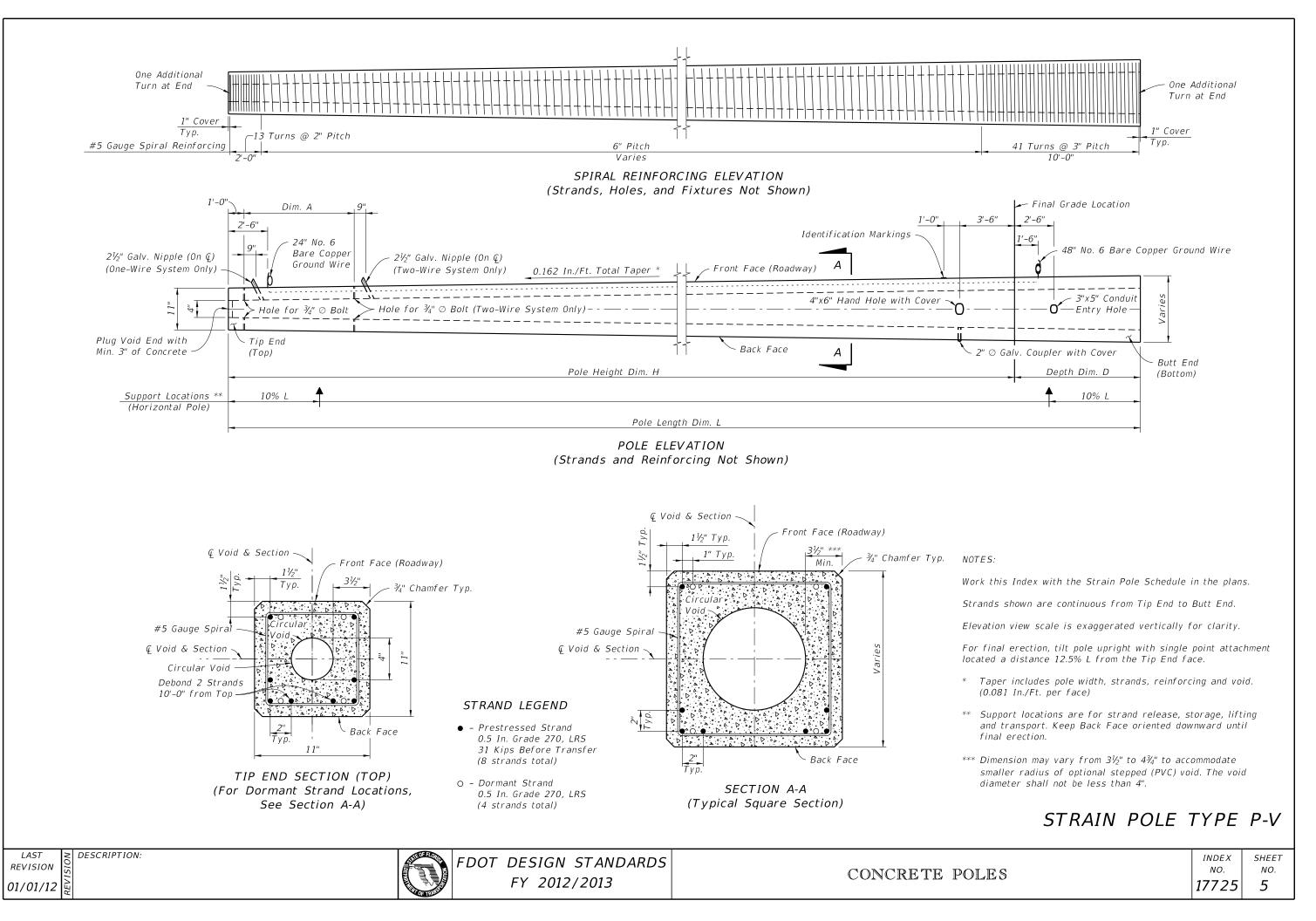
	INDEX	SHEET	
LES	^{NO.} 17725	<i>NO.</i> 1	

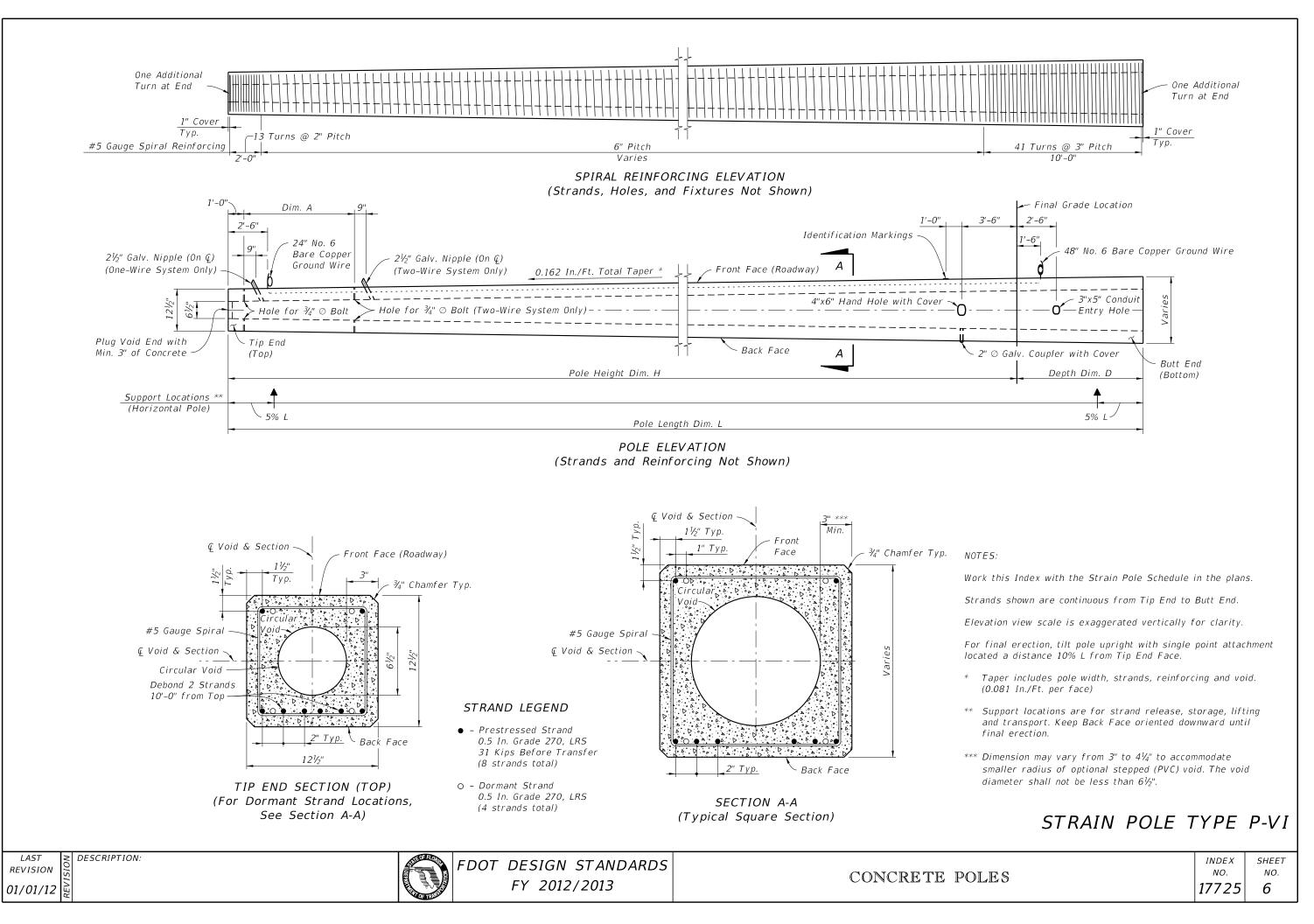


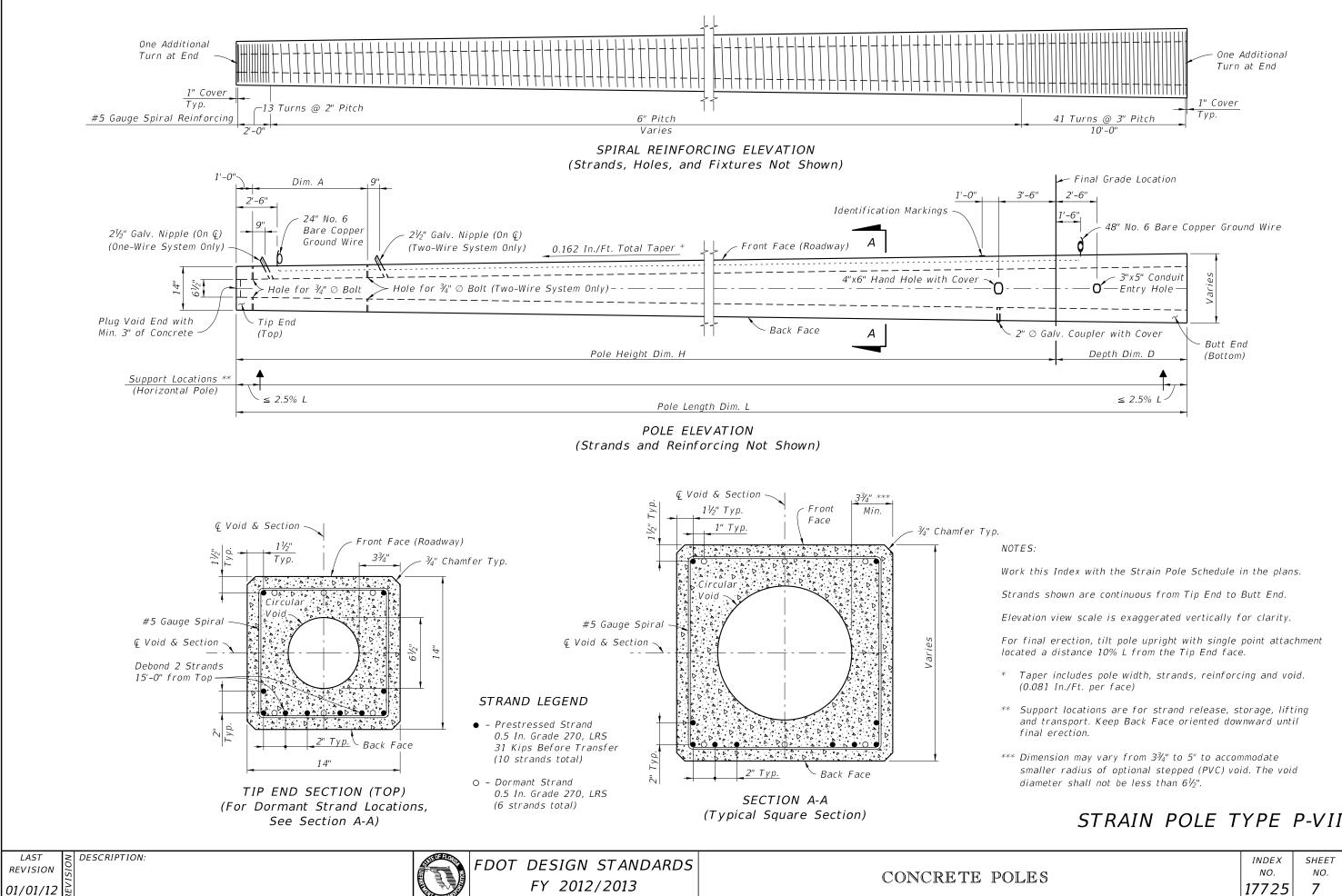




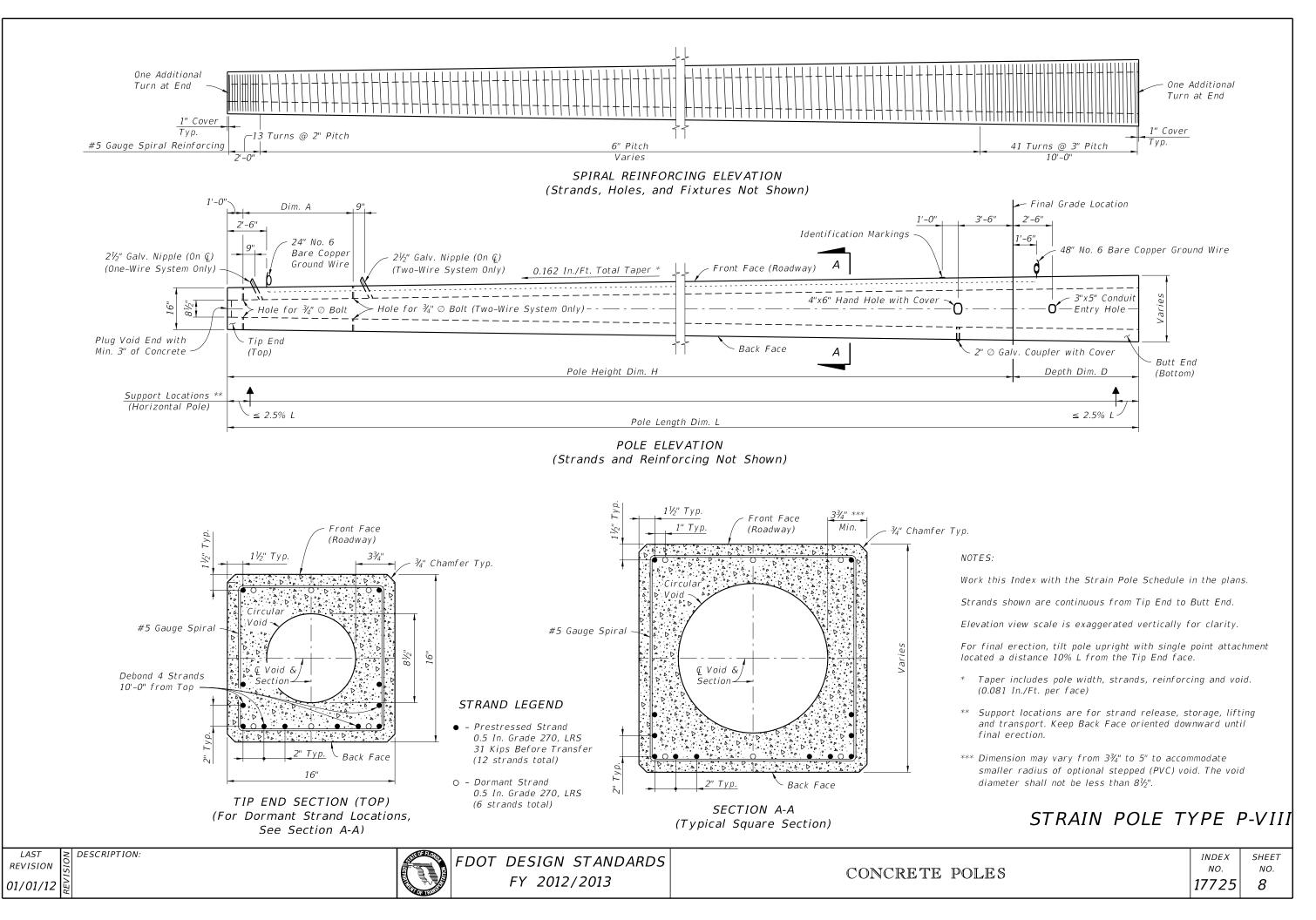
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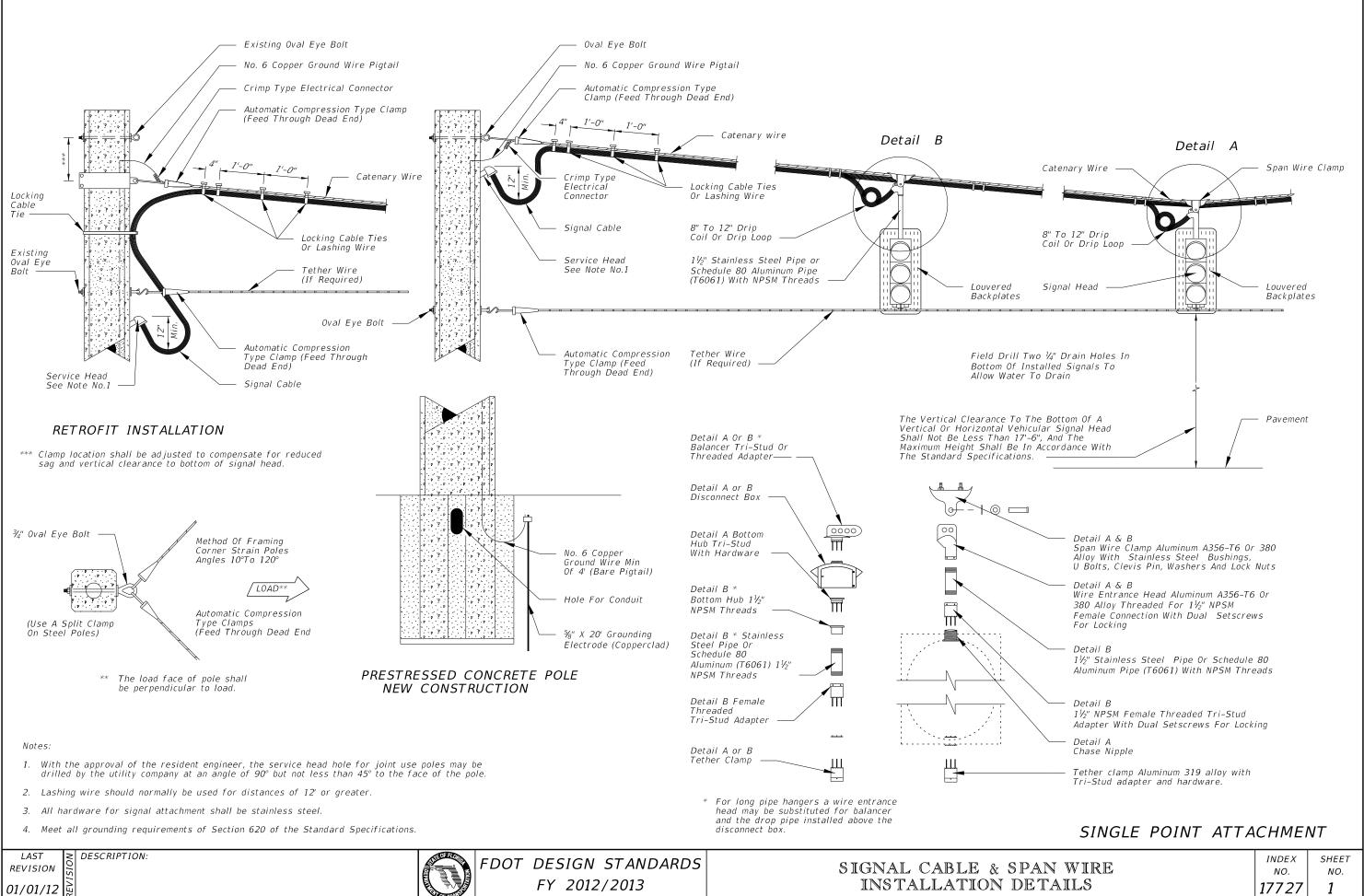


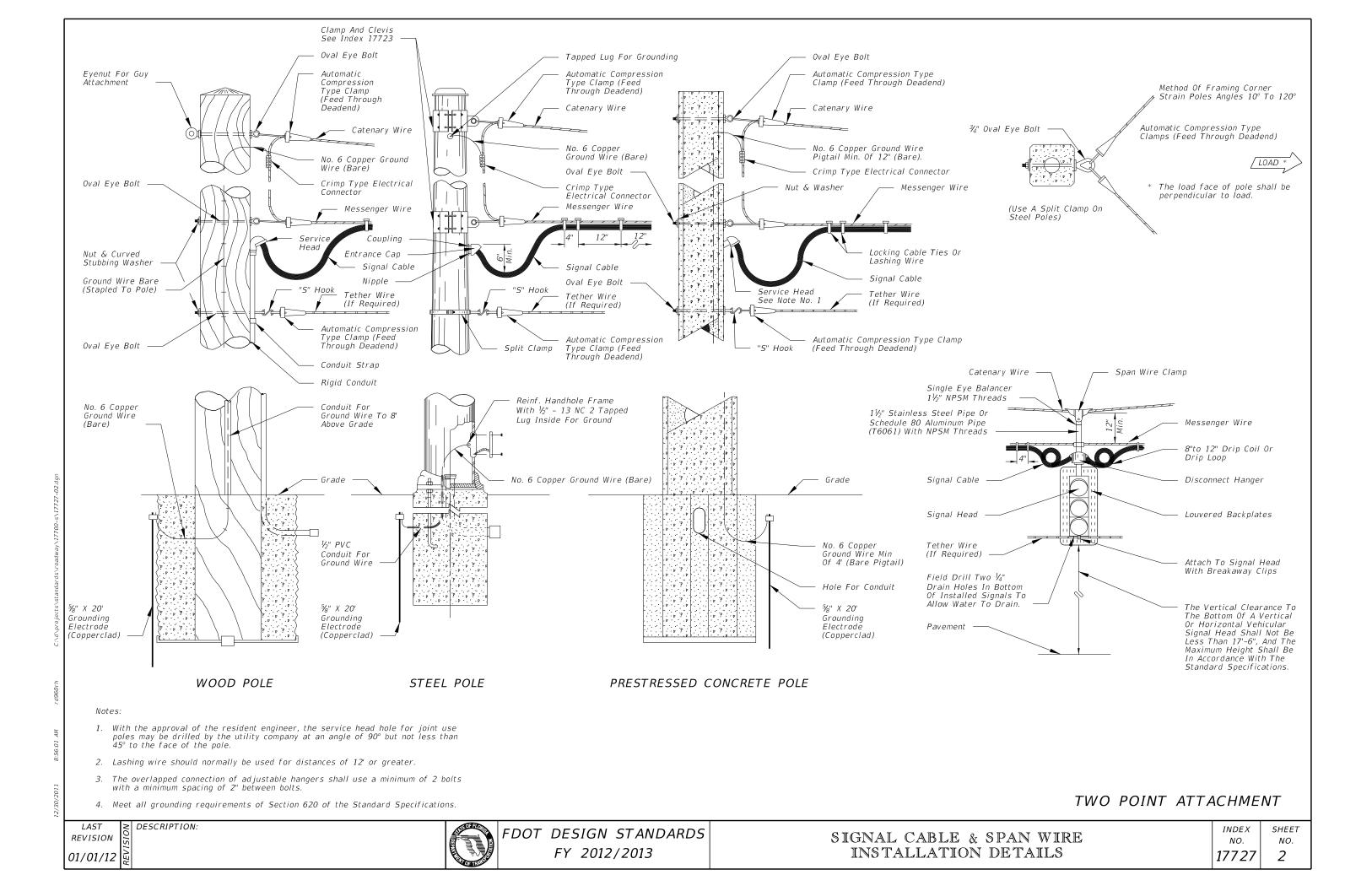


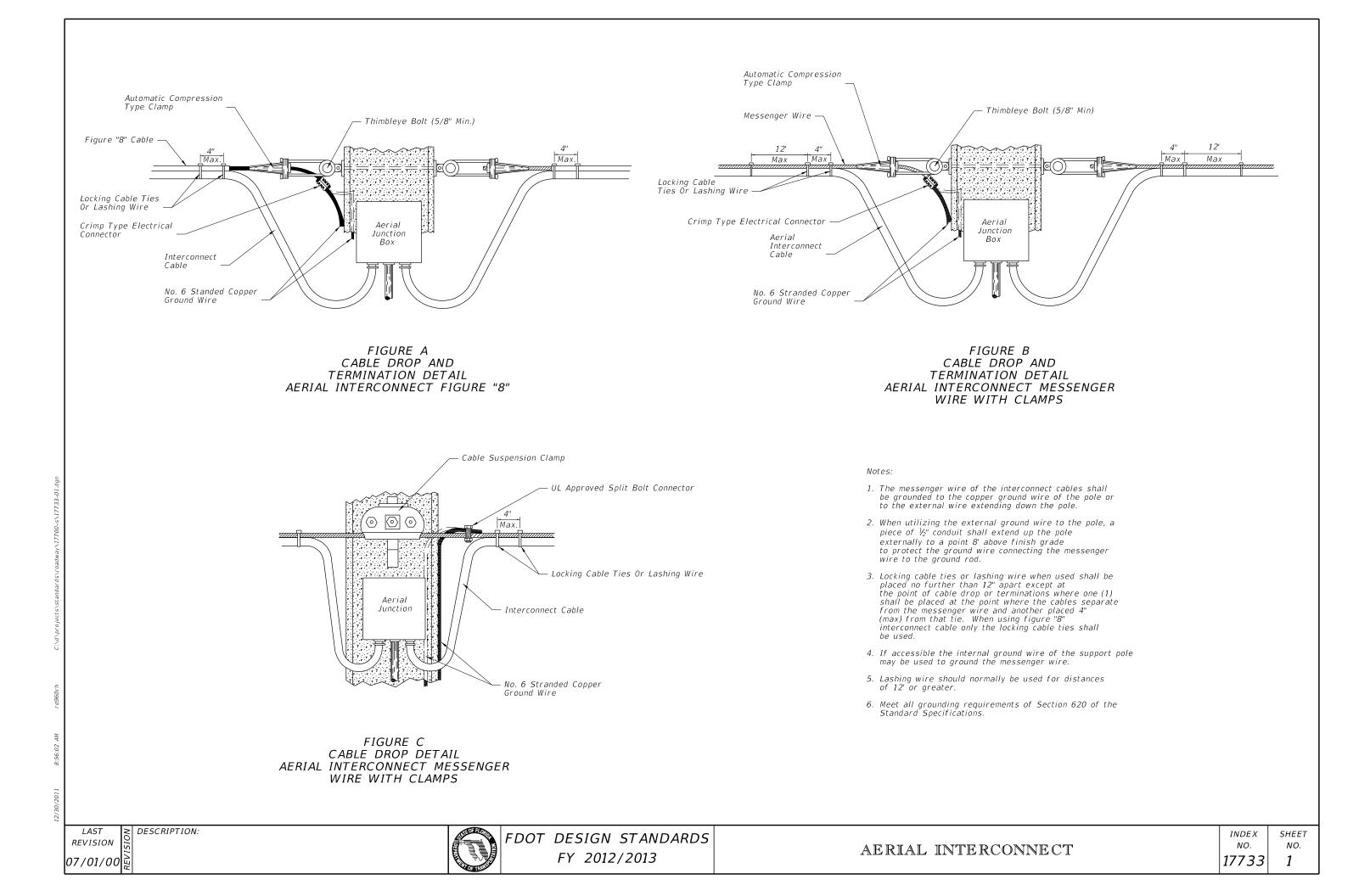


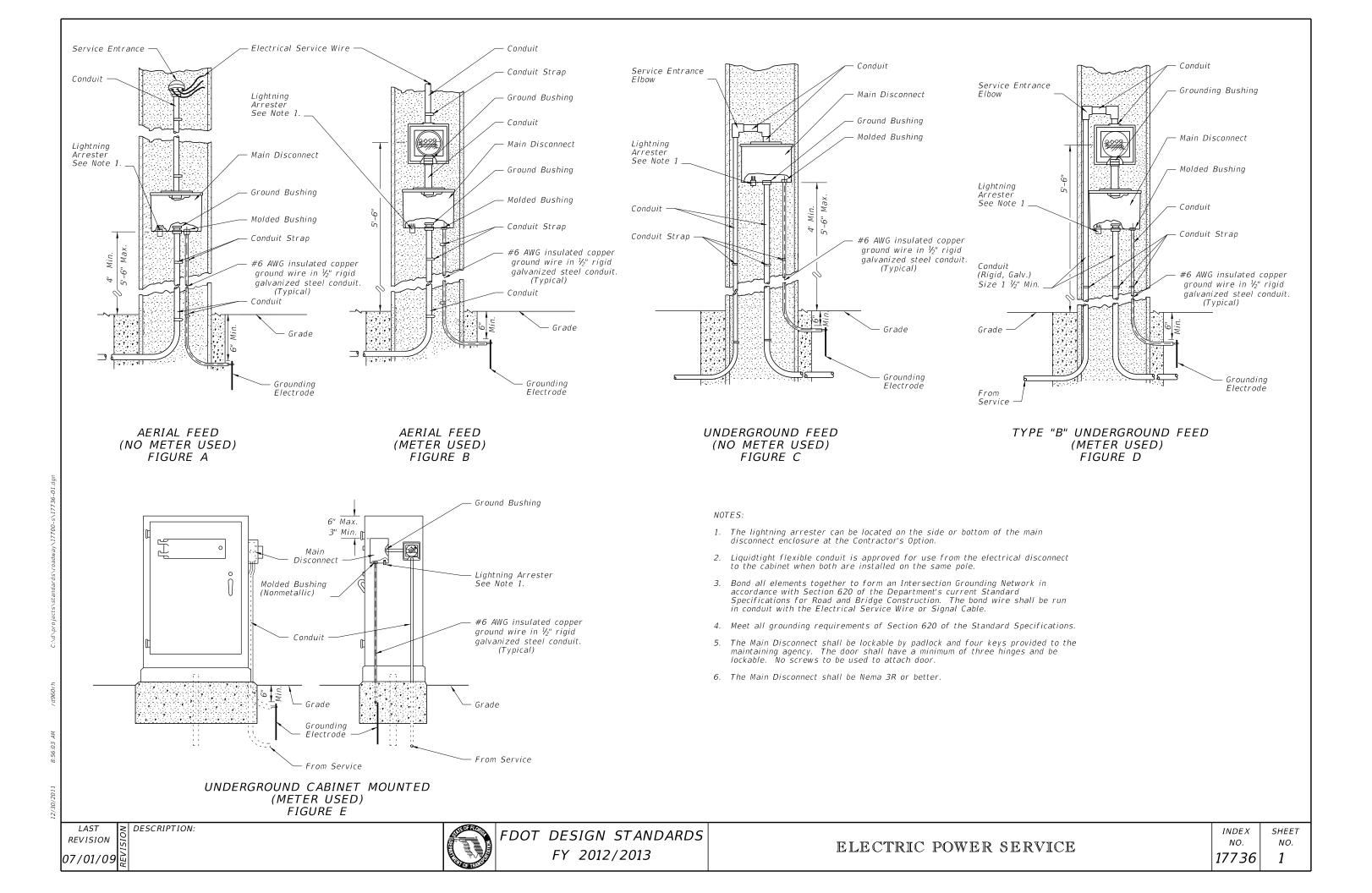
LAST REVISION











	POLE SELE	CTION TABL	E – SINGLE /	ARM – WITH	& WITHOUT	LUMINAIRE
ſ	ARM TYPE	D1	D3	D5	D6	D7
	POLE TYPE	S1 & S21 Lum	52 & 522 Lum	53 & 523 Lum	54 & 524 Lum	56

	ŀ	POLE SEL	ECTION T	ABLE – D	DOUBLE A	RM – WIT	HOUT LUI	MINAIRE		
ARM TYPE	D1 - D1	D3 - D1	D5 - D2	D6 - D2	D4 - D4	D5 - D4	D6 - D4	D5 - D5	D6 - D5	D6 - D6
POLE TYPE	S1	52	53	54	53	54	54	54	54	S5

Arm 1 is listed first

				ARM D	ESIGN	TABLE	E – ALL	CASE	5				
			MAST	ARM		A	RM EX	TENSIO	N	ARM CONNECTION & WELDS			
ARM TYPE	ARM LENGTH	FA/SA (ft)	FB/SB (in)	FC/SC (in)	FD/SD (in)	FE/SE (ft)	FF/SF (in)	FG/SG (in)	FH/SH (in)	HT (in)	FJ/SJ (in)	FK/SK (in)	
D1	36'-0"	36	8.96	14	0.1793					20	25	2.5	
D2	36'-0"	36	8.96	14	0.1793					30	36	3	
D3	46'-0"	36.3	8.92	14	0.1793	11.7	13.36	15	0.313	20	25	2.5	
D4	46'-0"	36.3	8.92	14	0.1793	11.7	13.36	15	0.313	30	36	3	
D5	60'-0''	36	7.96	13	0.1793	26	12.36	16	0.375	30	36	3	
D6	70'-6"	39.4	9.49	15	0.1793	33.1	14.37	19	0.375	30	36	3	
D7	78'-0''	40	8.44	14	0.1793	40	13.40	19	0.375	30	34	3	

Arm Camber Angle = 2 degrees

							POLE	E, CONI	VECTIO	N AND	SHAF	T DES	IGN TA	BLE –	SINGL	E & D(OUBLE	ARM			
	UA	UC	UD	UE	UG	UPR	IGHT B	ASE CO	ONNECT	ION			СС	NNECT	ION PL	ATE DA	TA				
POLE TYPE	(ft)	(in)	(in)	(in)	(ft)	No. Bolts	BA (in)	BB (in)	BC (in)	BF (in)	HT (in)	FJ/SJ (in)	FL/SL (in)	FN/SN (in)	F0/S0 (in)	FP/SP (in)	FR/SR (in)	FS/SS (in)	FT/ST (in)	DA (ft)	Τ
51	24	12.64	16	0.375		6	30	2.5	1.75	36	20	25	0.75	0.438	15.5	1	2	8	0.438	12	
52	24	14.64	18	0.375		6	32	2.5	1.75	36	20	25	0.75	0.438	15.5	1	2	8	0.438	12	
53	24	17.64	21	0.375		6	37	2.5	2	40	30	36	0.75	0.438	22	1.25	2.5	12.5	0.438	15	
54	24	22.64	26	0.375		6	42	2.5	2	40	30	36	0.75	0.438	22	1.25	2	12.5	0.438	17	
S5	24	23.64	27	0.375		6	45	2.5	2.25	45	30	36	0.75	0.438	22	1.25	2	12.5	0.438	18	
56	24	21.64	25	0.375		6	41	2.5	2	40	30	34	0.75	0.5	16.5	1.25	2	12.5	0.5	15	
S21 Lum	39	10.54	16	0.375	37.5	6	30	2.5	1.75	40	20	25	0.75	0.438	11.5	1	2	8	0.438	12	
S22 Lum	39	12.54	18	0.375	37.5	6	32	2.5	1.75	40	20	25	0.75	0.438	12.5	1	2	8	0.438	12	
523 Lum	39	15.54	21	0.375	37.5	6	37	2.5	2	40	30	36	0.75	0.438	15	1.25	2.5	12.5	0.438	14	
S24 Lum	39	20.54	26	0.375	37.5	6	42	2.5	2	40	30	36	0.75	0.438	17	1.25	2	12.5	0.438	15	Τ

			LUMI	NAIRE A	ND LUM	INAIRE	CONNEC	TION			
LA (ft)	LB (ft)	LC (in)	LD (in)	LE	LF (ft)	LG (in)	LH (in)	LJ (in)	LK (in)	LL (deg)	UG (ft)
40	10	3	0.125	0.5	8	0.5	0.75	0.25	0.25	0	37.5

Notes: 1. Work this Index with Index No. 17745. 2. Design Wind Speed = 150 mph with Signal Backplates.

O DESCRIPTION: LAST REVISION

01/01/12



DRI	LLED SI	HAFT D	ATA	
DB (ft)	RA	RB	RC	RD (in)
4	11	14	9	12
4.5	11	16	9	12
4.5	11	16	10	8
5	11	18	10	8
5	11	18	10	8
5	11	18	10	8
4	11	14	9	12
4.5	11	16	9	12
4.5	11	16	10	8
5	11	18	10	8

"D" M.	AST	ARMS
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INDEX SHEET NO. NO. 17743 1

POLE SELE	CTION TABL	E - SINGLE /	ARM – WITH	& WITHOUT	LUMINAIRE
ARM TYPE	E1	E3	E5	E6	E7
POLE TYPE	T1 & T21 Lum	T2 & T22 Lum	T3 & T23 Lum	T4 & T24 Lum	Τ6

	ŀ	POLE SEL	ECTION T	ABLE – D	DOUBLE A	RM – WIT	HOUT LUI	MINAIRE		
ARM TYPE	E1 - E1	E3 - E1	E5 - E2	E6 - E2	E4 - E4	E5 - E4	E6 - E4	E5 - E5	E6 - E5	E6 - E6
POLE TYPE	Τ1	Т2	Т3	Τ4	Т3	Τ4	Τ4	Τ4	Τ4	Τ5

Arm 1 is listed first

				ARM D	ESIGN	TABLE	E – ALL	CASE	S			
			MAST	ARM	RM EX	TENSIO	N	ARM CON	INECTION	& WELDS		
ARM TYPE	ARM LENGTH	FA/SA (ft)	FB/SB (in)	FC/SC (in)	FD/SD (in)	FE/SE (ft)	FF/SF (in)	FG/SG (in)	FH/SH (in)	HT (in)	FJ/SJ (in)	FK/SK (in)
E 1	36'-0"	36.0	5.96	11	0.25					22	23	2
E2	36'-0''	36.0	5.96	11	0.25					30	32	2.75
E3	46'-0"	36.3	7.06	12.14	0.25	11.7	11.36	13	0.313	22	23	2
E4	46'-0''	36.3	7.06	12.14	0.25	11.7	11.36	13	0.313	30	32	2.75
E5	60'-0''	36.0	6.10	11.14	0.25	26	10.36	14	0.375	30	32	2.75
E6	70'-6"	39.4	6.63	12.15	0.25	33.1	11.37	16	0.375	30	32	2.75
E7	78'-0''	40.0	7.50	13.10	0.1793	40	12.40	18	0.375	30	32	2.5

Arm Camber Angle = 2 degrees

POLE, CONNECTION AN											ID SHA	AFT DE	SIGN 7	ABLE	- SING	GLE & I	DOUBL	E ARM			
	UA	υc	UD	UE	UG	UPR	IGHT B	BASE CO	ONNECT	ION			СС	DNNECT	ION PL	ATE DA	TA				
POLE TYPE	(ft)	(in)	(in)	(in)	(ft)	No. Bolts	BA (in)	BB (in)	BC (in)	BF (in)	HT (in)	FJ/SJ (in)	FL/SL (in)	FN/SN (in)	FO/SO (in)	FP/SP (in)	FR/SR (in)	FS/SS (in)	FT/ST (in)	DA (ft)	T
Τ1	24	10.64	14	0.375		6	26	2.5	1.5	36	22	23	0.5	0.375	14	1	2.0	9	0.375	11	Τ
Τ2	24	12.64	16	0.375		6	28	2.5	1.5	36	22	23	0.5	0.375	14	1	2.0	9	0.375	12	Τ
Т3	24	15.64	19	0.375		6	35	2.5	2	40	30	32	0.75	0.375	19.5	1.25	2.25	12.5	0.375	12	T
Τ4	24	18.64	22	0.5		6	38	2.5	2	40	30	32	0.75	0.375	19.5	1.25	2.0	12.5	0.375	15	T
Τ5	24	18.64	22	0.5		6	38	2.5	2	40	30	32	0.75	0.375	19.5	1.25	2.0	12.5	0.375	16	T
Т6	24	18.64	22	0.375		6	38	2.5	2	40	30	32	0.75	0.438	15	1.25	2.0	12.5	0.438	14	
T21 Lum	39	8.54	14	0.375	37.5	6	26	2.5	1.5	40	22	23	0.5	0.375	10	1	2.0	9	0.375	11	T
T22 Lum	39	10.54	16	0.375	37.5	6	30	2.5	1.75	40	22	23	0.5	0.375	11	1	2.0	9	0.375	12	T
T23 Lum	39	13.54	19	0.375	37.5	6	35	2.5	2	40	30	32	0.75	0.375	13	1.25	2.25	12.5	0.375	12	
T24 Lum	39	16.54	22	0.375	37.5	6	38	2.5	2	40	30	32	0.75	0.375	15	1.25	2.0	12.5	0.375	14	T

			LUMI	NAIRE A	ND LUM	INAIRE	CONNEC	TION			
LA (ft)	LB (ft)	LC (in)	LD (in)	LE	LF (ft)	LG (in)	LH (in)	LJ (in)	LK (in)	LL (deg)	UG (ft)
40	10	3	0.125	0.5	8	0.5	0.75	0.25	0.25	0	37.5

Notes: 1. Work this Index with Index No. 17745. 2. Design Wind Speed = 150 mph without Signal Backplates. 130 mph with or without Signal Backplates. 110 mph with or without Signal Backplates.

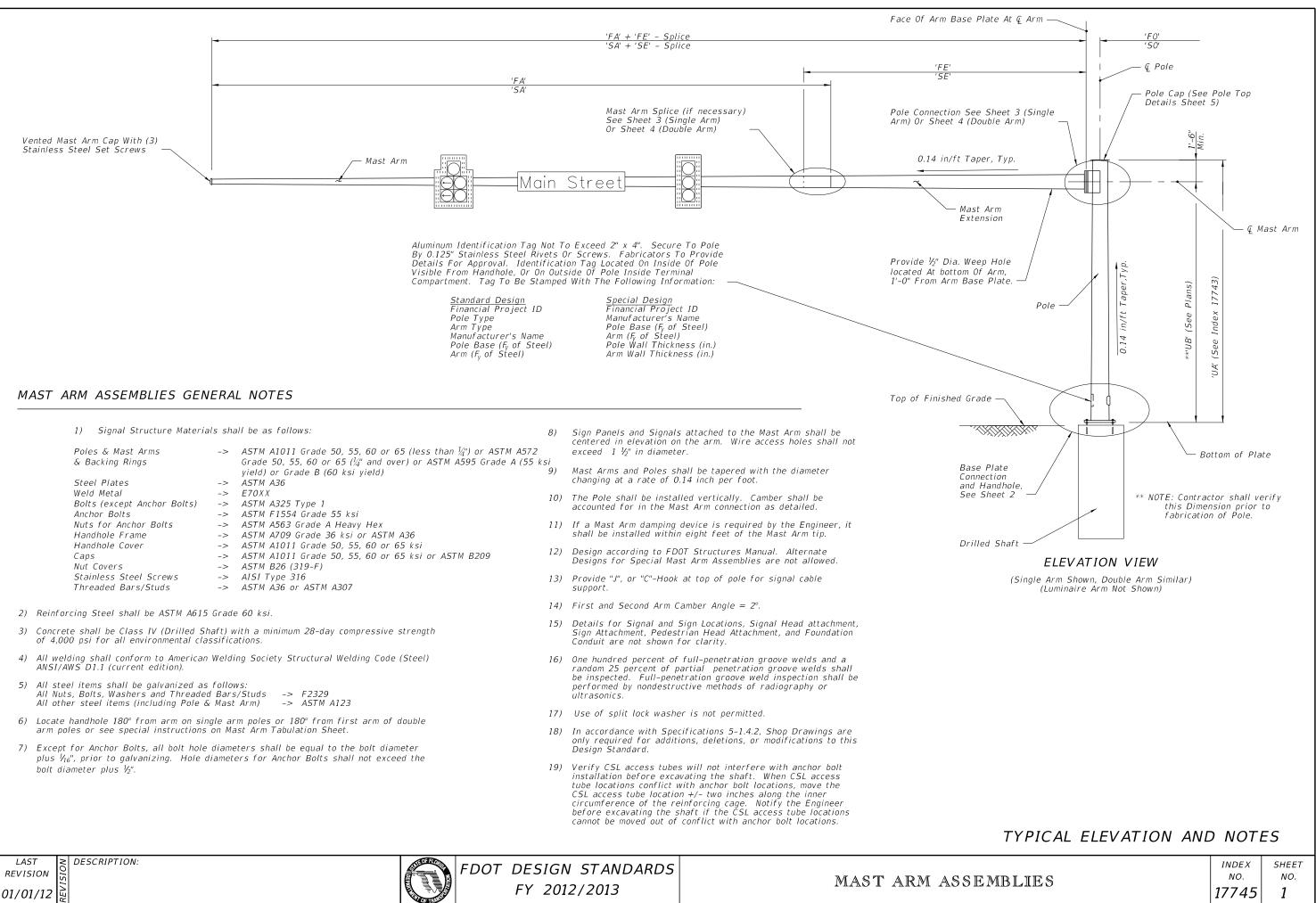
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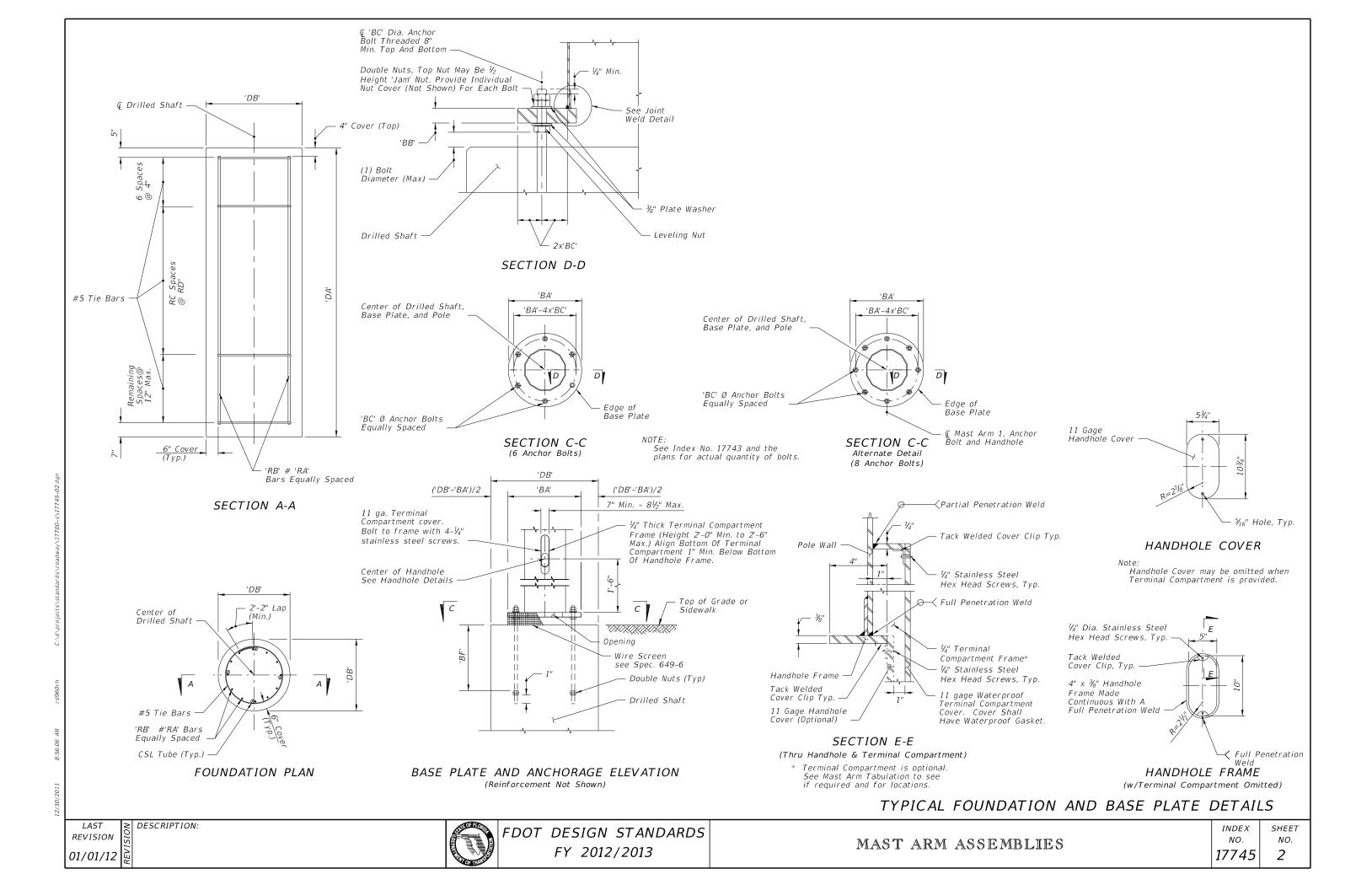
REVISION 01/01/12

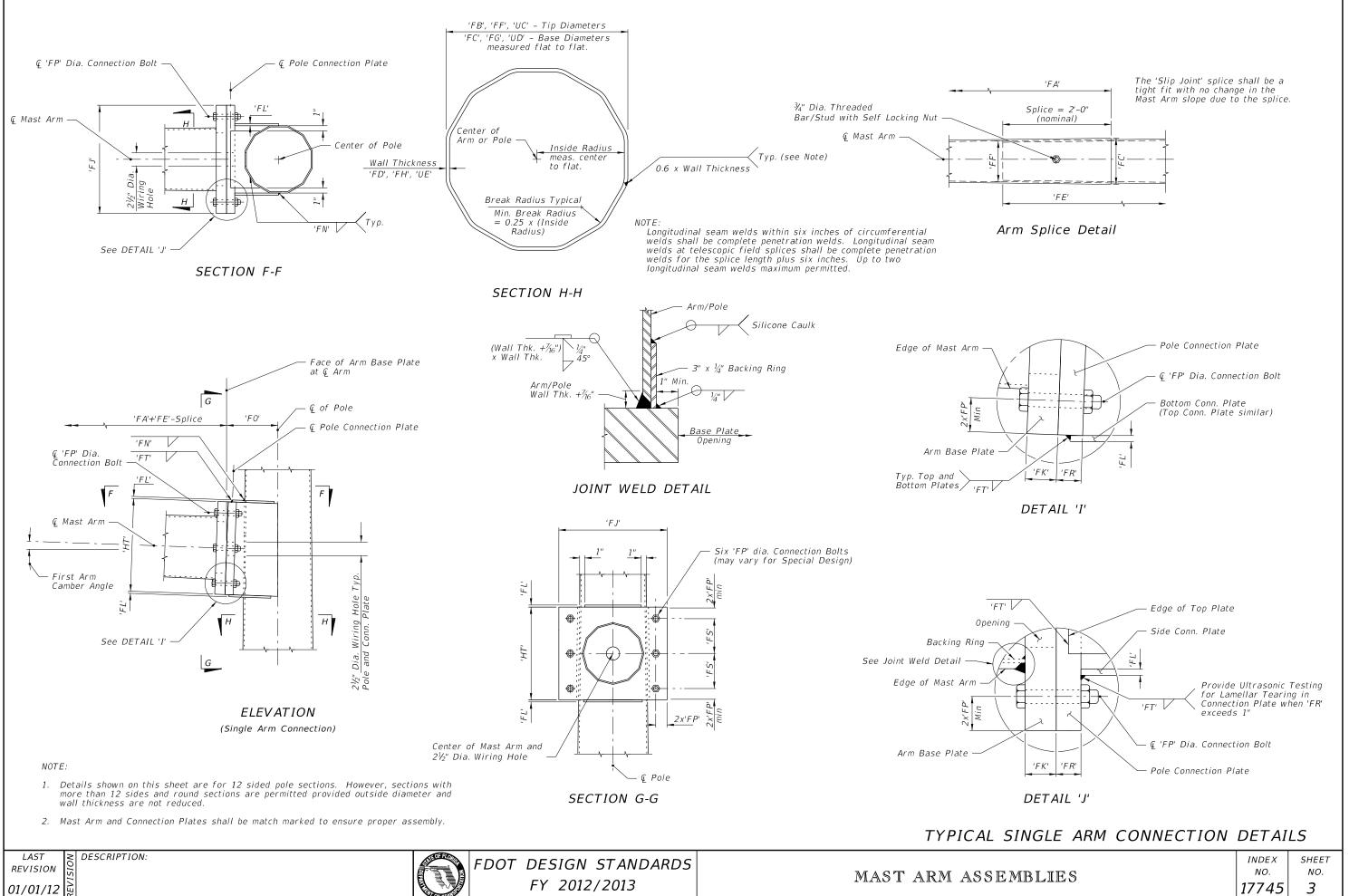


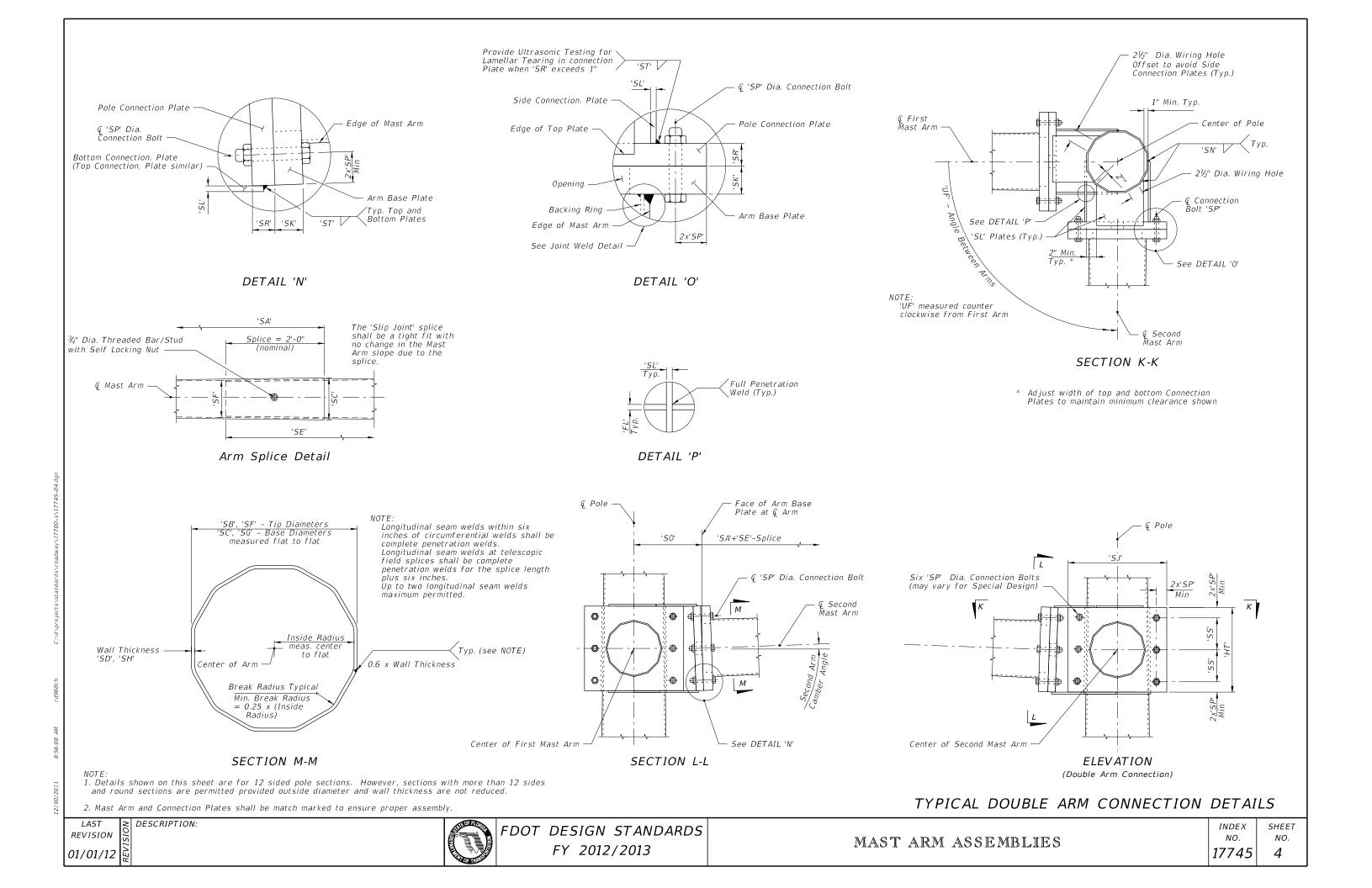
DRI	LLED SI	HAFT D	ATA	
DB (ft)	RA	RB	RC	RD (in)
4	11	14	8	12
4	11	14	9	12
4.5	11	16	9	12
4.5	11	16	10	8
4.5	11	16	10	8
4.5	11	16	10	8
4	11	14	8	12
4	11	14	9	12
4.5	11	16	9	12
4.5	11	16	10	12

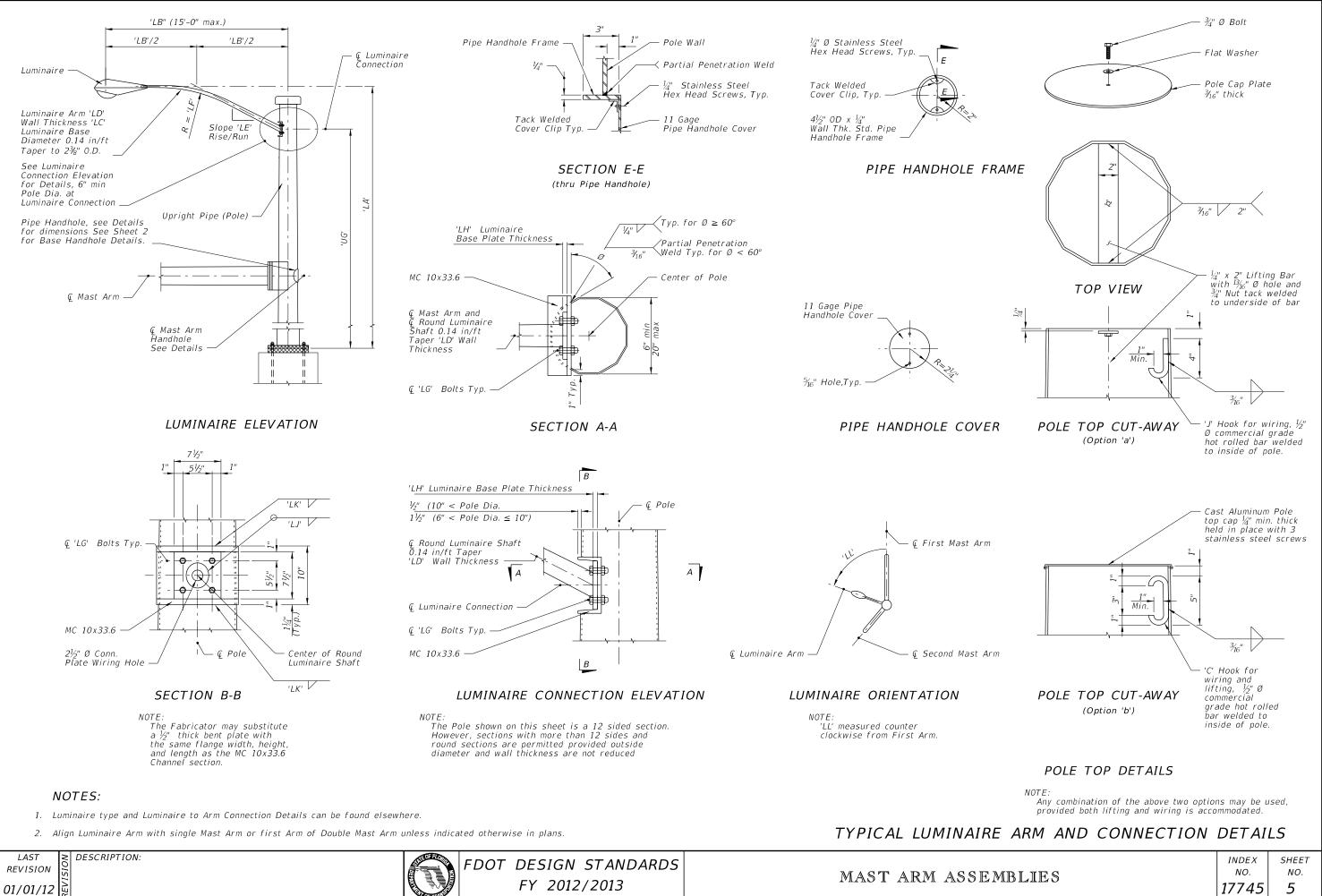
	INDEX	SHEET
LS	NO.	NO.
	17743	2



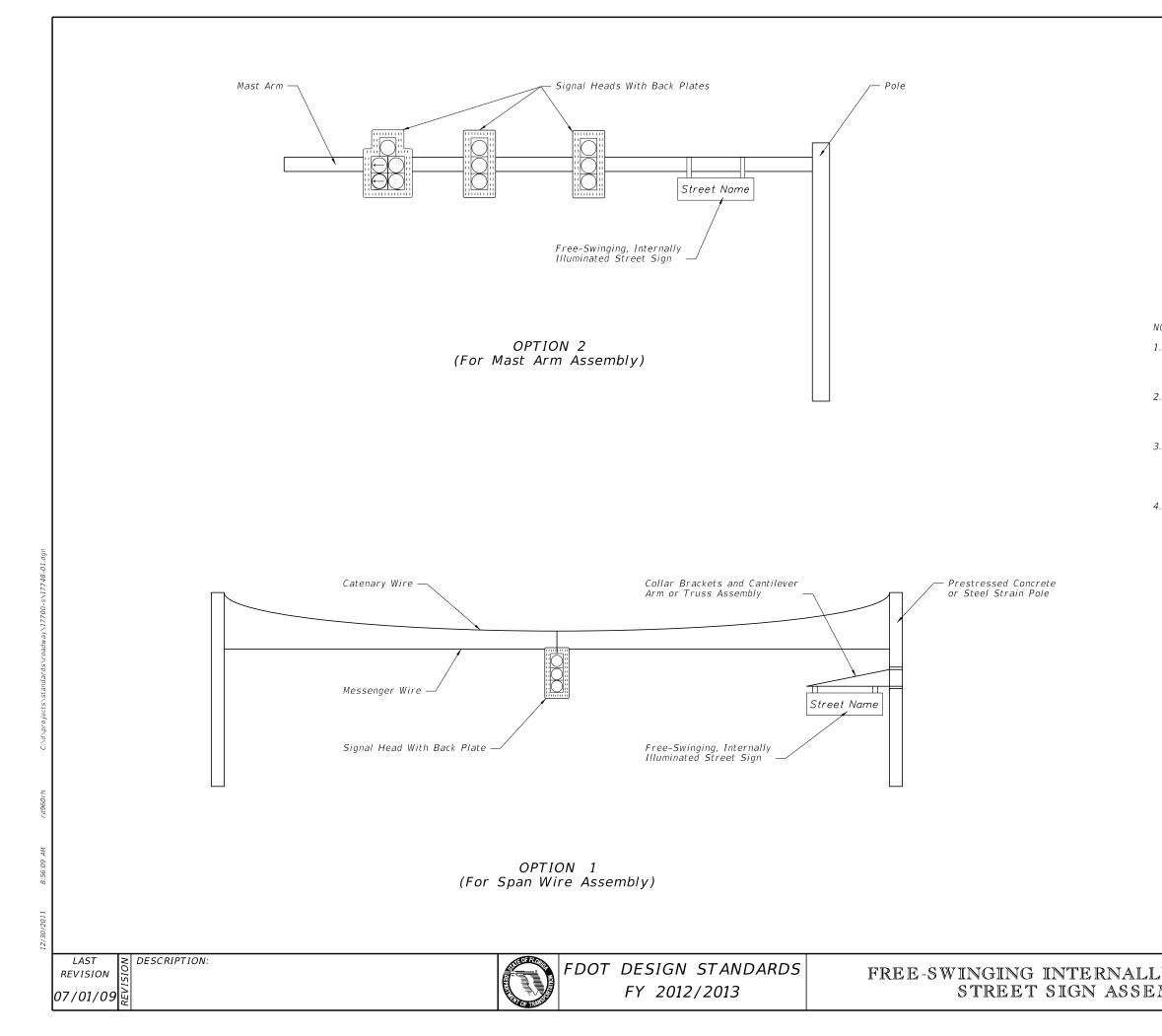








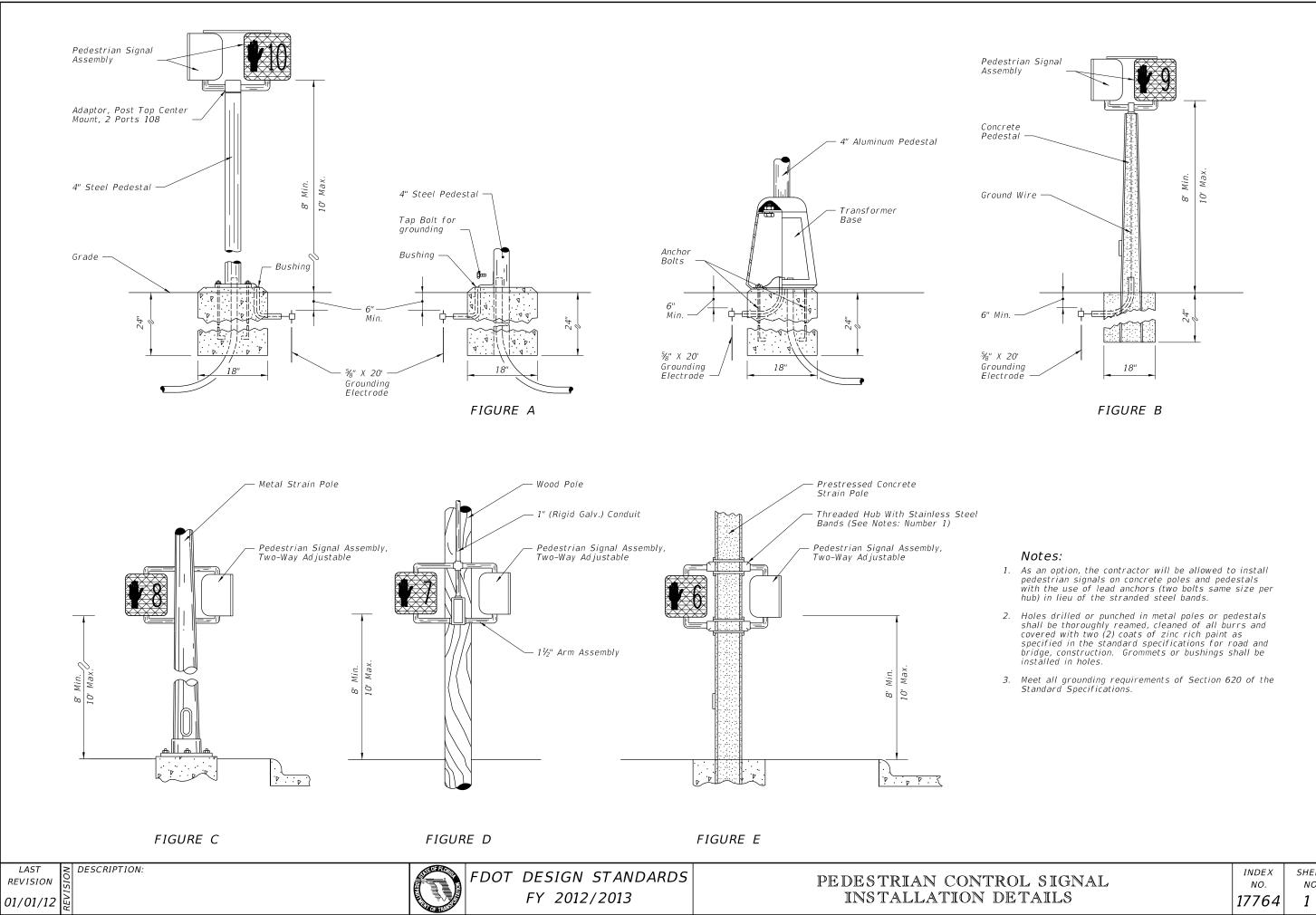
		FDOT DESIGN STANDARDS FY 2012/2013	MAST ARM ASS
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NOTES:

- Free-swinging, internally-illuminated street signs shall only be installed on the signal pole for span wire assemblies. For mast arm assemblies the street sign may be installed on the arm or pole.
- 2. Free-swinging, internally-illuminated street signs shall meet the requirements of Section 699 of the Standard Specifications for Road and Bridge Construction.
- 3. Pole attachments and cantilever arm (or truss) assemblies may be accepted by Contractor certification provided the signs being supported meet the weight and area limitations included in Section 699 for "Acceptance by Certification".
- 4. Pole attachments and cantilever arm (or truss) assemblies supporting signs not meeting the weight or area limitations included in Section 699 for "Acceptance by Certification" require the submittal of structural calculations and Shop Drawings that have been prepared by and sealed by the Specialty Engineer.

Y-ILLUMINATED	INDEX NO.	SHEET NO.
MBLIES	17748	1

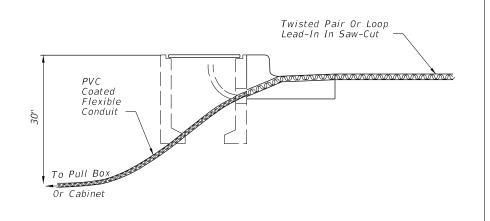


	INDEX	SHEET
DL SIGNAL	NO.	NO.
TAILS	17764	1

TWISTED PAIR AND LOOP LEAD-IN INSTALLATION WITH CURB & GUTTER

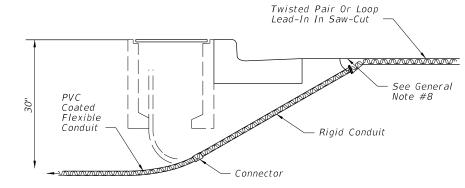
ALTERNATIVE 1

Drill A Hole Through The Curb At The Point Which The Required Saw-Cut Depth Is Obtained Just Prior To Cutting The Top Inside Edge Of The Curb. Slide A Section Of Flexible Conduit At Least 6" Into The Hole From The Back Side Of The Curb But Not Within 2" Of The Top Of The Hole. The Conduit Shall Fit Snug Within The Drilled Hole. Fill The Top Of The Hole With Loop Sealant To The Level Of The Curb Surface. A Nonmetallic Material Should Be Used To Prevent Excessive Loop Sealant From Entering The Flexible Conduit.



ALTERNATIVE 2

Drill A Hole $\frac{1}{2}$ " To 1" Larger In Diameter Than The Rigid Conduit To Be Used Through The Roadway Asphalt (Or Concrete) Surface And Base At An Appropriate Angle To Intercept The Trench Or Pull Box Hole. Place A Predetermined Length Of Rigid Conduit In The Hole And Drive The Conduit Into The Trench Or Hole. Install A Molded Bushing (Nonmetallic) On The Roadway End Of The Rigid, Conduit. The Top Of The Rigid Conduit Shall Be Approximately 2" Below The Roadway Surface. Fill The Hole With Loop Sealant To The Level Of The Roadway Surface. A Nonmetallic Material Should Be Used To Prevent Excessive Loop Sealant From Entering The Rigid Conduit.

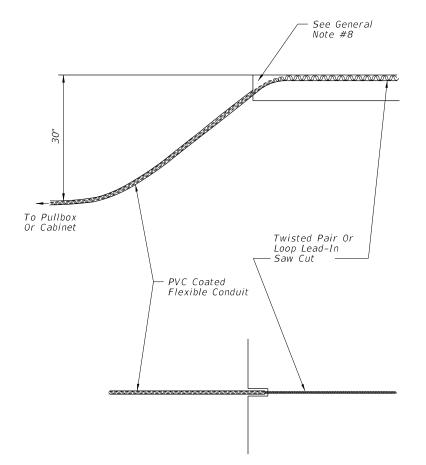


NOTE: Other alternatives may be approved by the State Traffic Operations Engineer.

< DESCRIPTION: LAST REVISION 07/01/02

TWISTED PAIR AND LOOP LEAD-IN INSTALLATION WITHOUT CURB & GUTTER

Cut A Slot In The Edge Of The Roadway Of Sufficient Size And Depth To Snugly Place The End Of The Flexible conduit. The End Of The Conduit Shall Be At Least 6" Into The Roadway And approximately 2" Below The Top Of The Roadway Surface. The Departure Angle Of The Conduit From The Roadway Shall Be 30° To 45°.



NOTE.

Other alternatives may be approved by the State Traffic Operations Engineer



- cahinet

- used.

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VEHICLE LOOP INSTALLA

1. If the loop lead-in is 75' or less from the edge of the loop detector to controller cabinet, continue the twisted pair to the cabinet. If the loop lead-in is greater than 75' continue the twisted pair to the specified pullbox, splice to shielded lead-in wire and continue to the controller

2. The width of all saw cuts shall be sufficient to allow unforced placement of loop wires or lead-in cables into the saw cut. The depth of all saw cuts, except across expansion joints, shall be 3" standard with a maximum of 4".

3. On resurfacing or new roadway construction projects, the loop wires and lead-in cables may be installed in the asphalt structural course prior to the placement of the final asphalt wearing course. The loop wires and lead-in cables shall be placed in a saw cut in the structural course. The depth of the cables below the top of the final surface shall comply with note 2.

4. A nonmetallic hold down material shall be used to secure loop wires and lead-ins to the bottom of saw-cuts. Hold down material shall be placed at approximately 12" intervals around loops and 24" intervals on lead-ins.

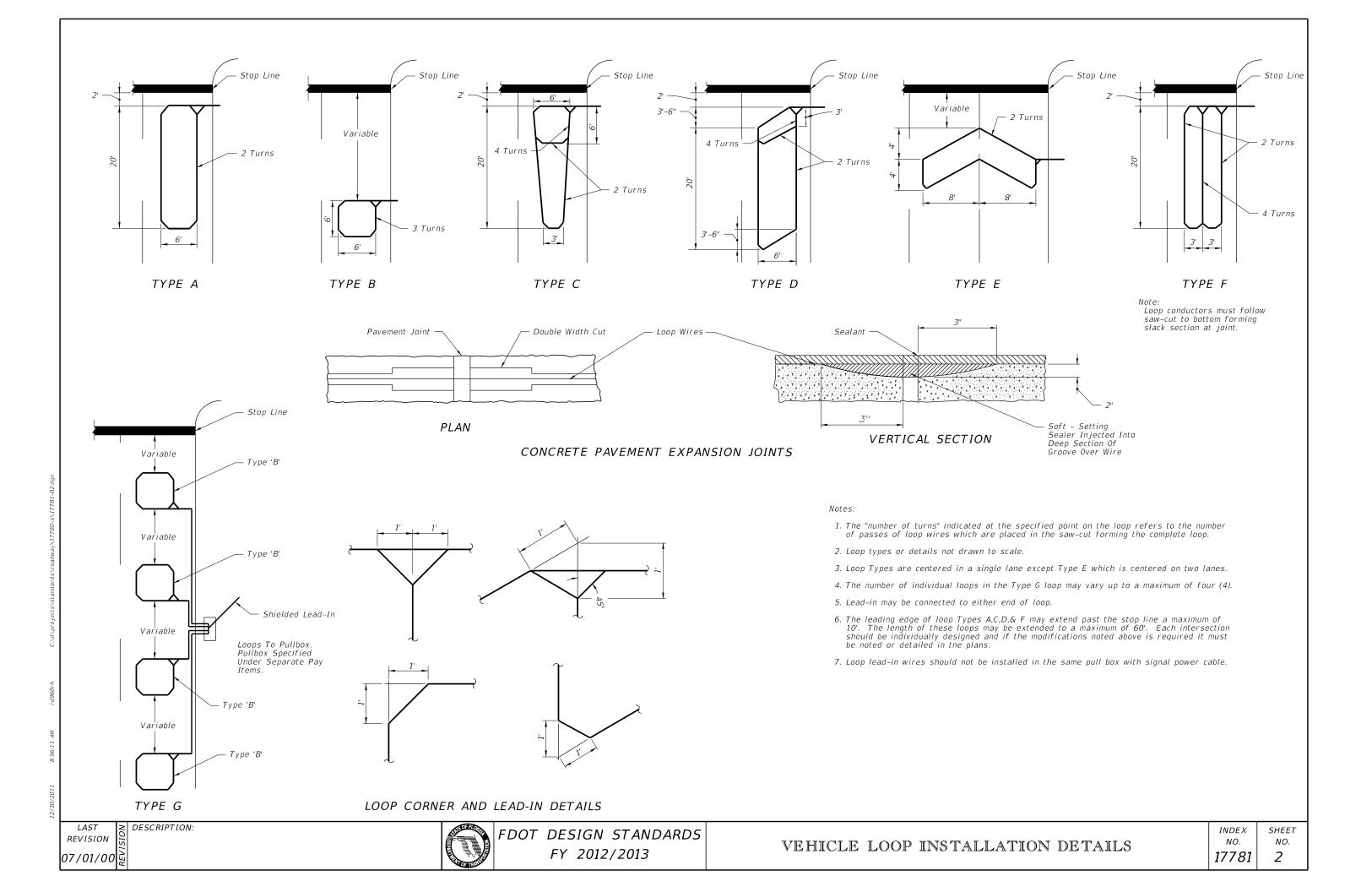
5. The minimum distance between the twisted pairs of loop lead-in wire is 6" from the loop to 12" from the pavement edge or curb.

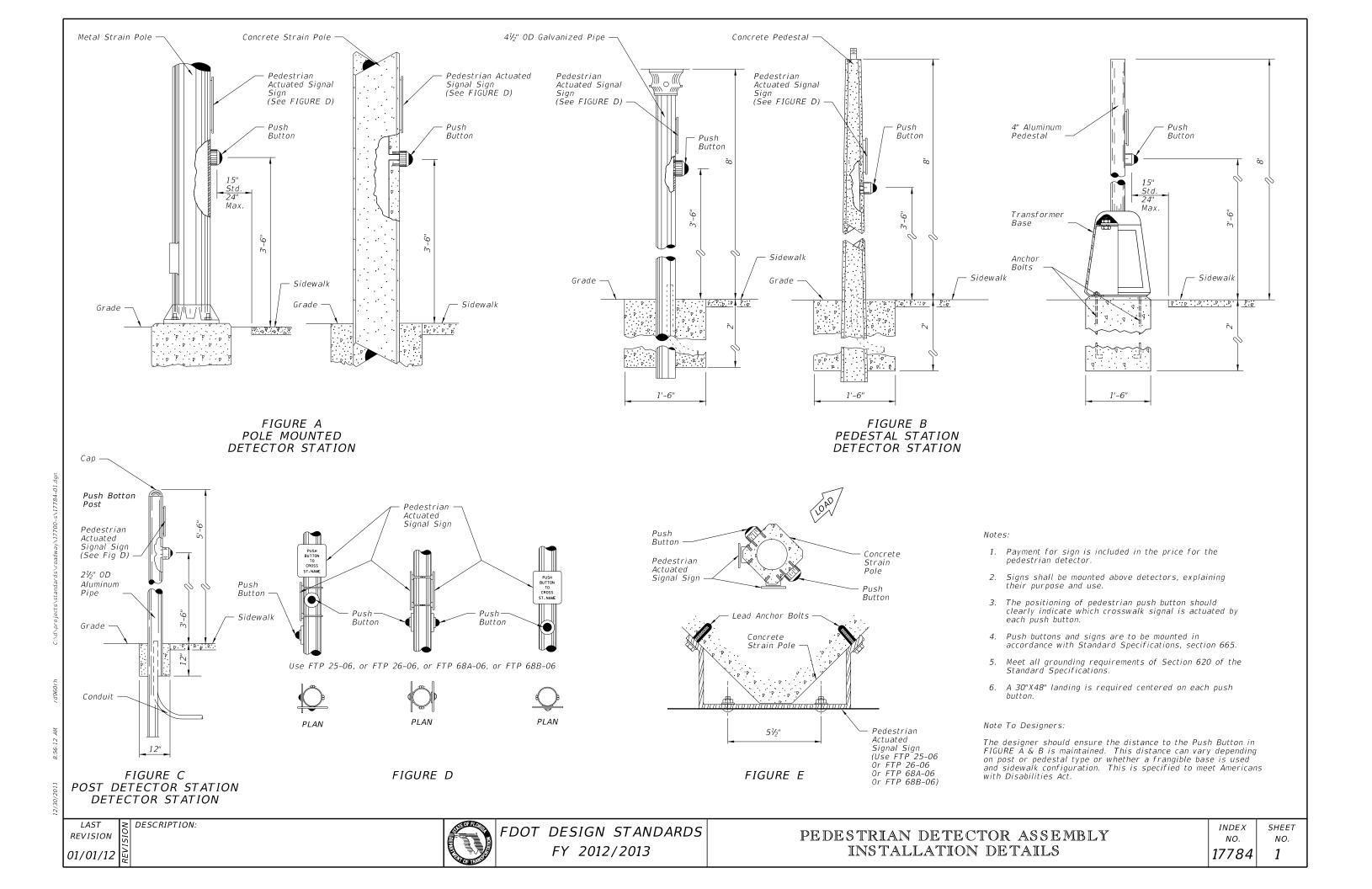
6. Splice Connections in pull boxes with UL listed, watertight, insulated enclosures. Place one enclosure over the end of each conductor and place a third enclosure over the exposed end of the shielded cable.

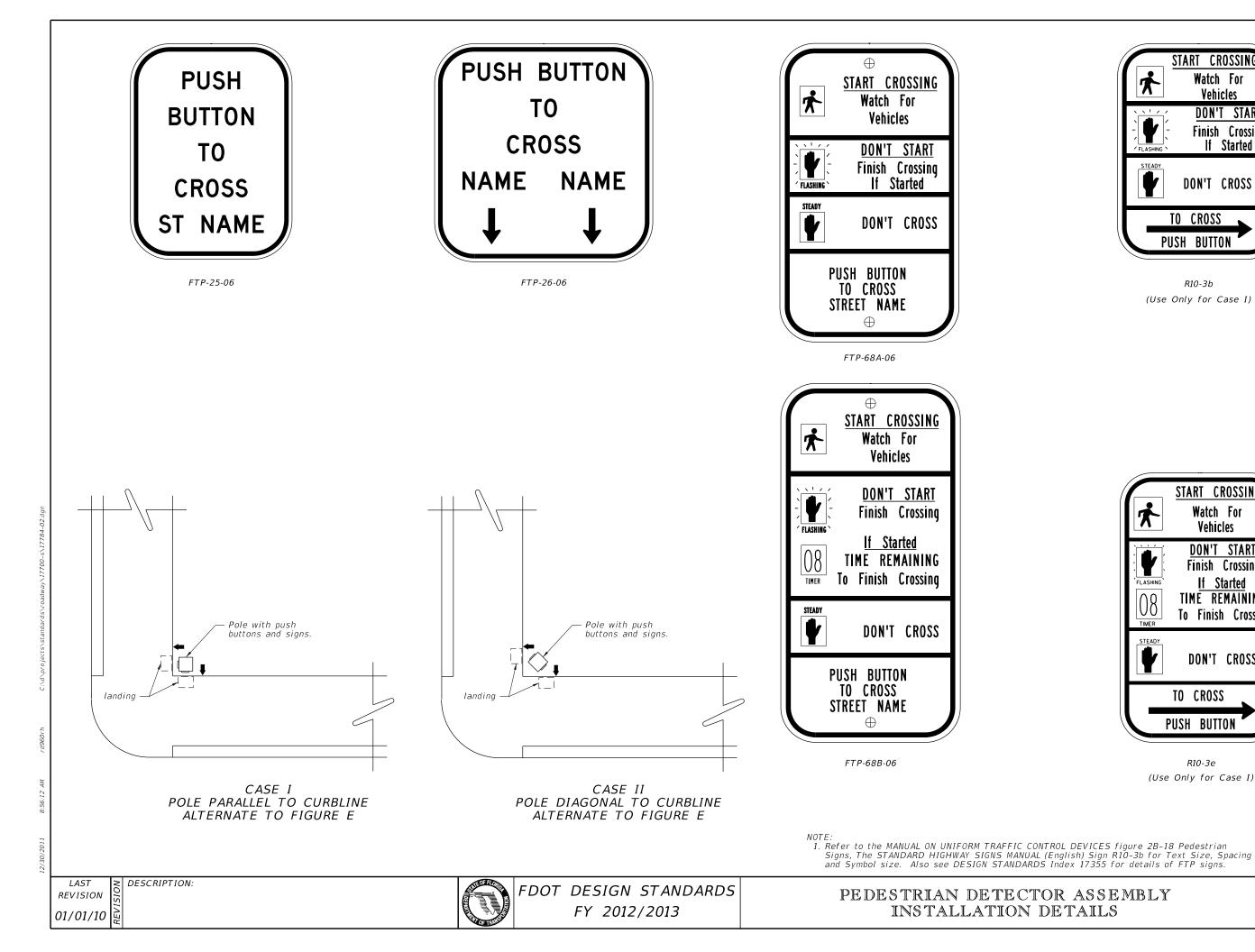
7. As an alternate, a larger diameter enclosure that will accommodate both the splices of the conductors and the exposed end of the shielded cable may be

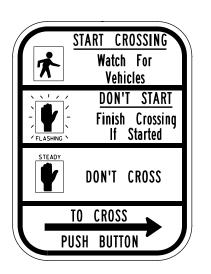
8. The maximum area of asphalt to be disturbed shall be 6"x 6". This area shall be restored as directed by the Engineer.

	INDE	X SHEET
TION DETAILS	NO.	NO.
	1778	31 1

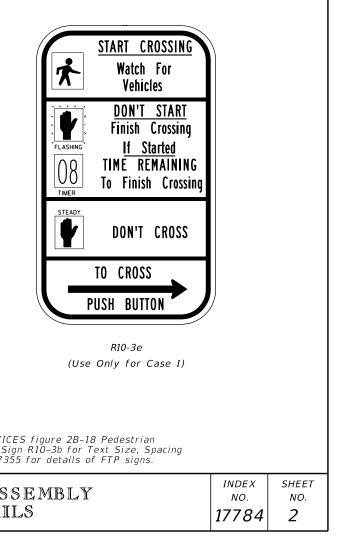


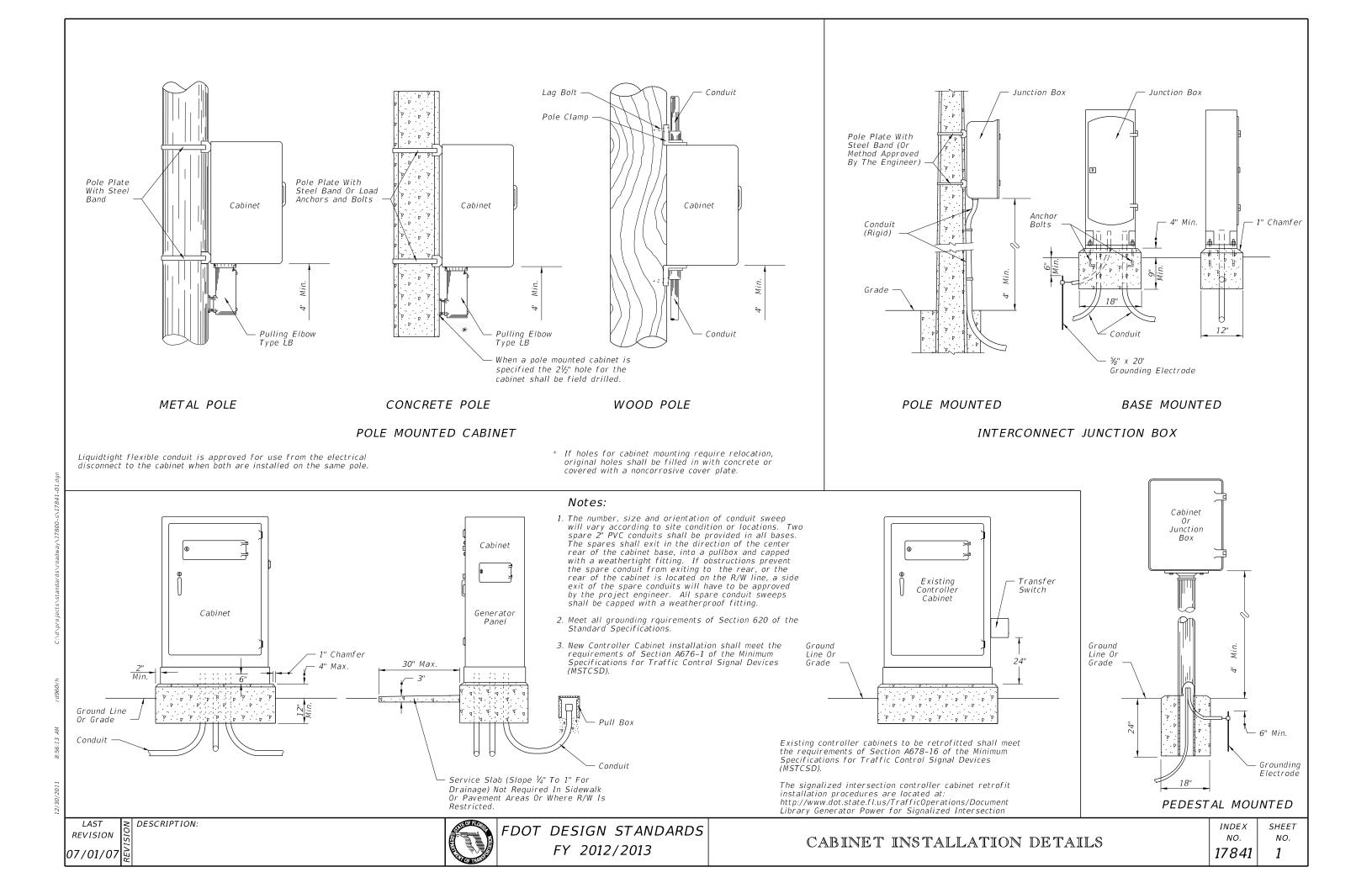


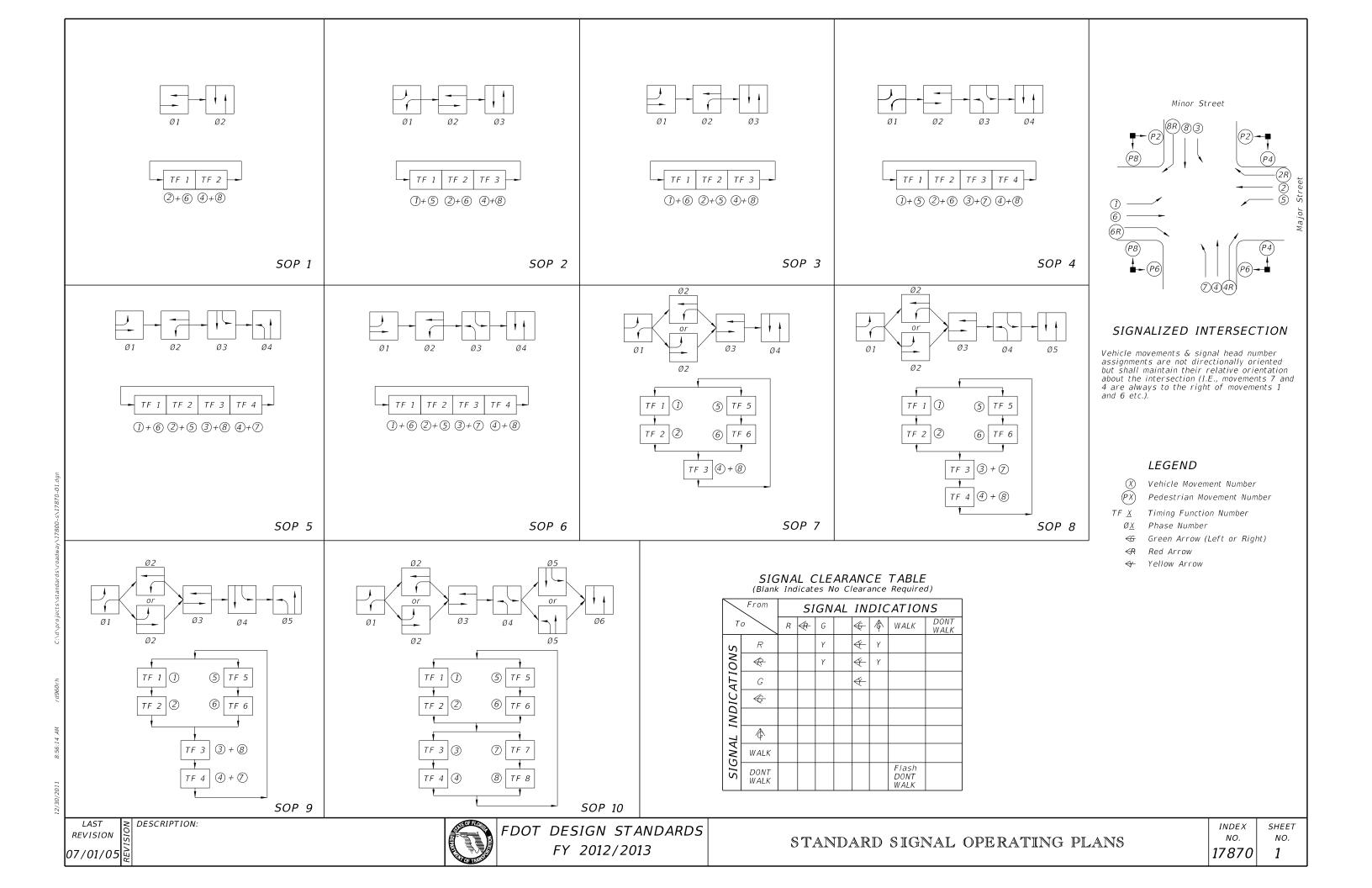




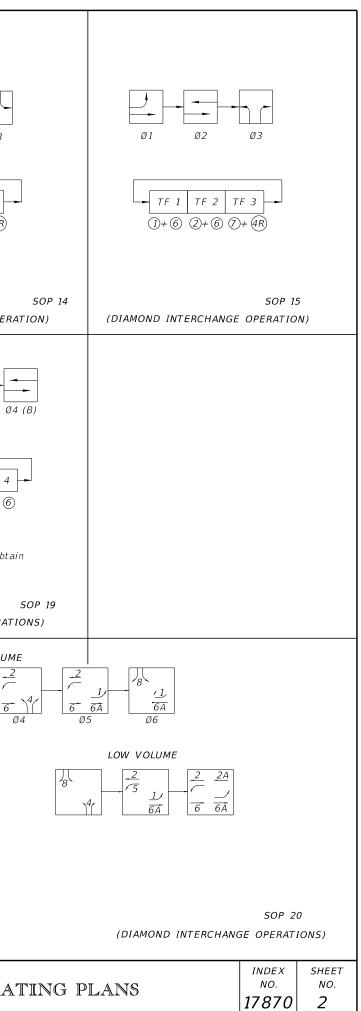
R10-3b (Use Only for Case I)

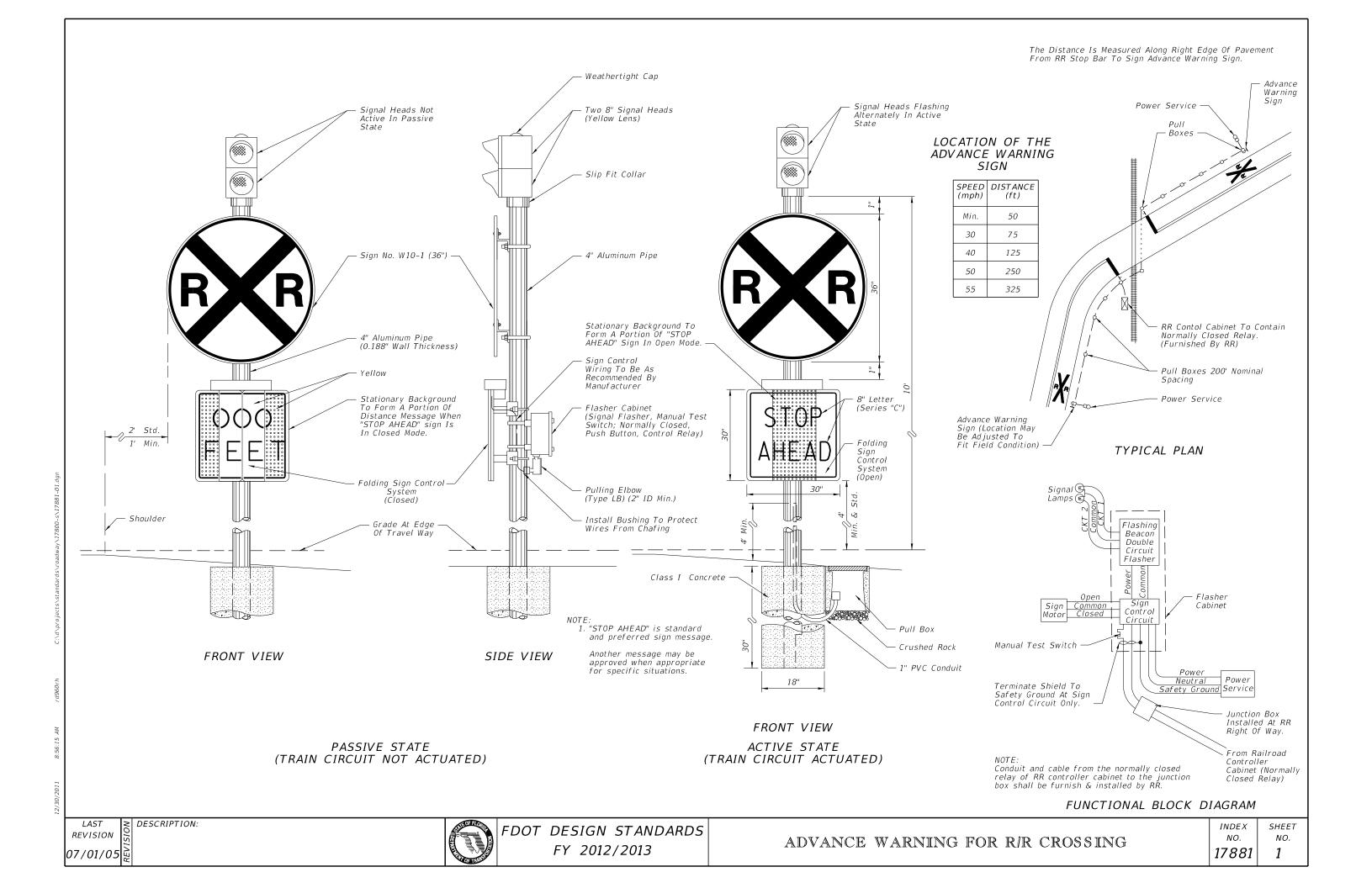


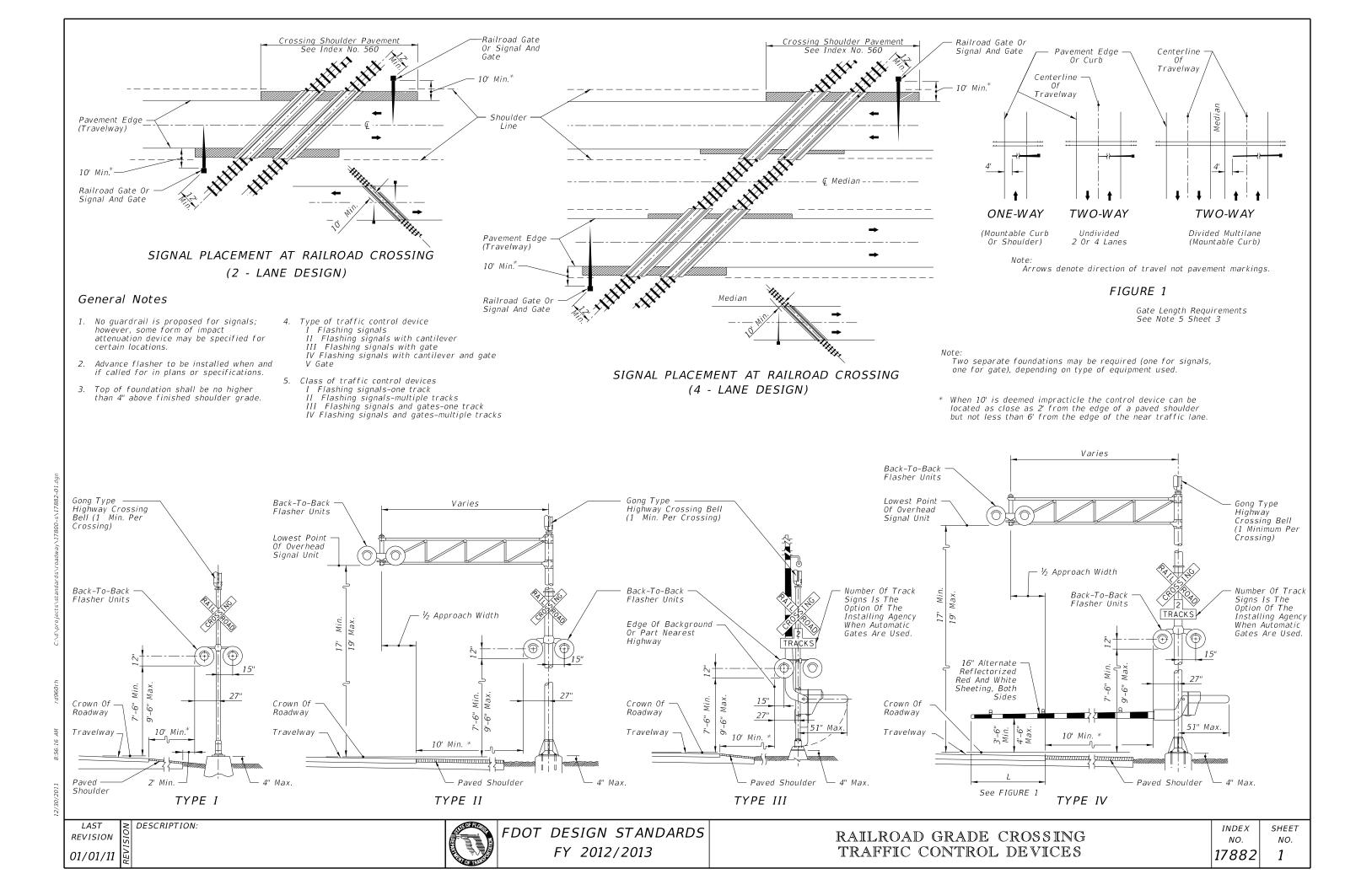


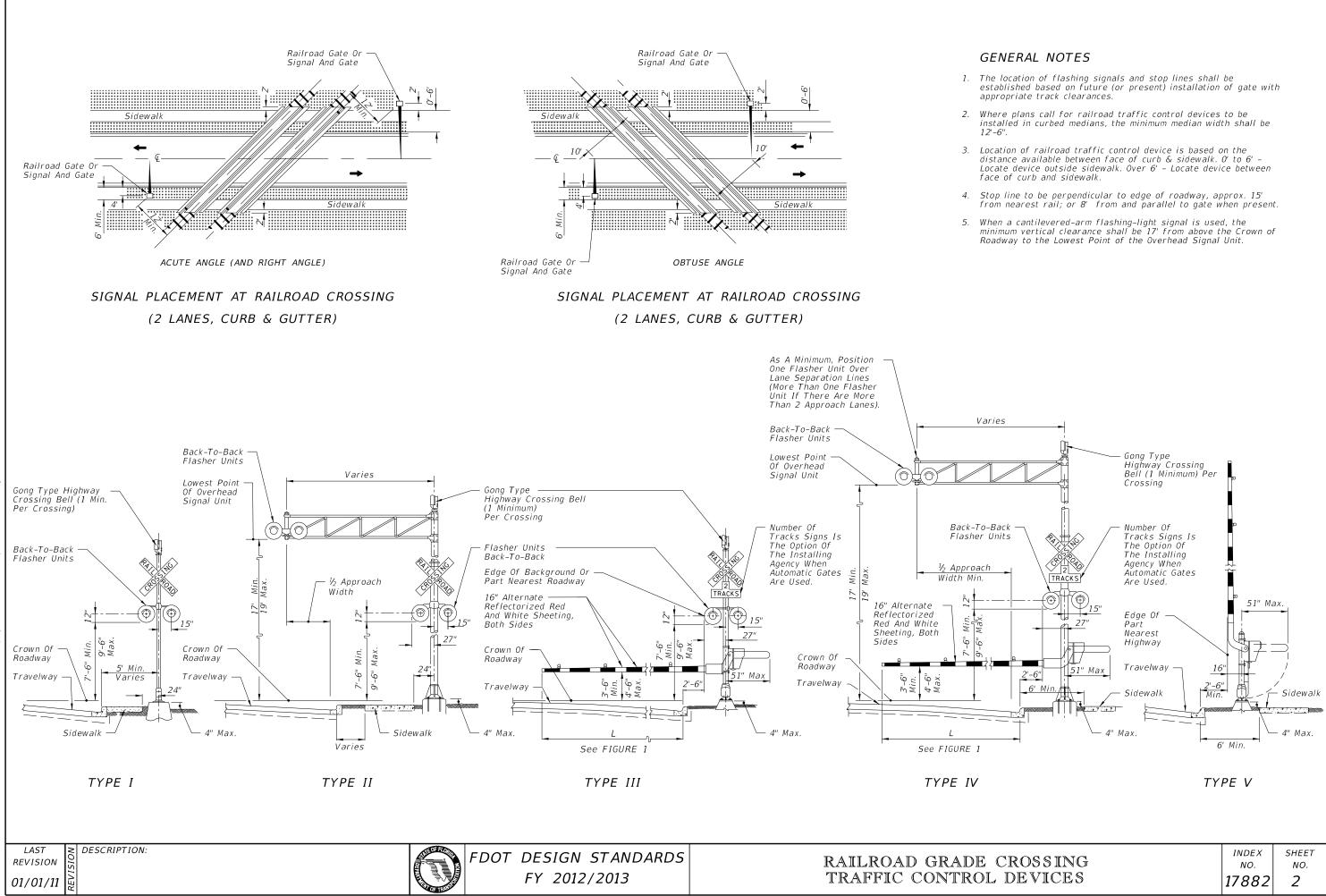


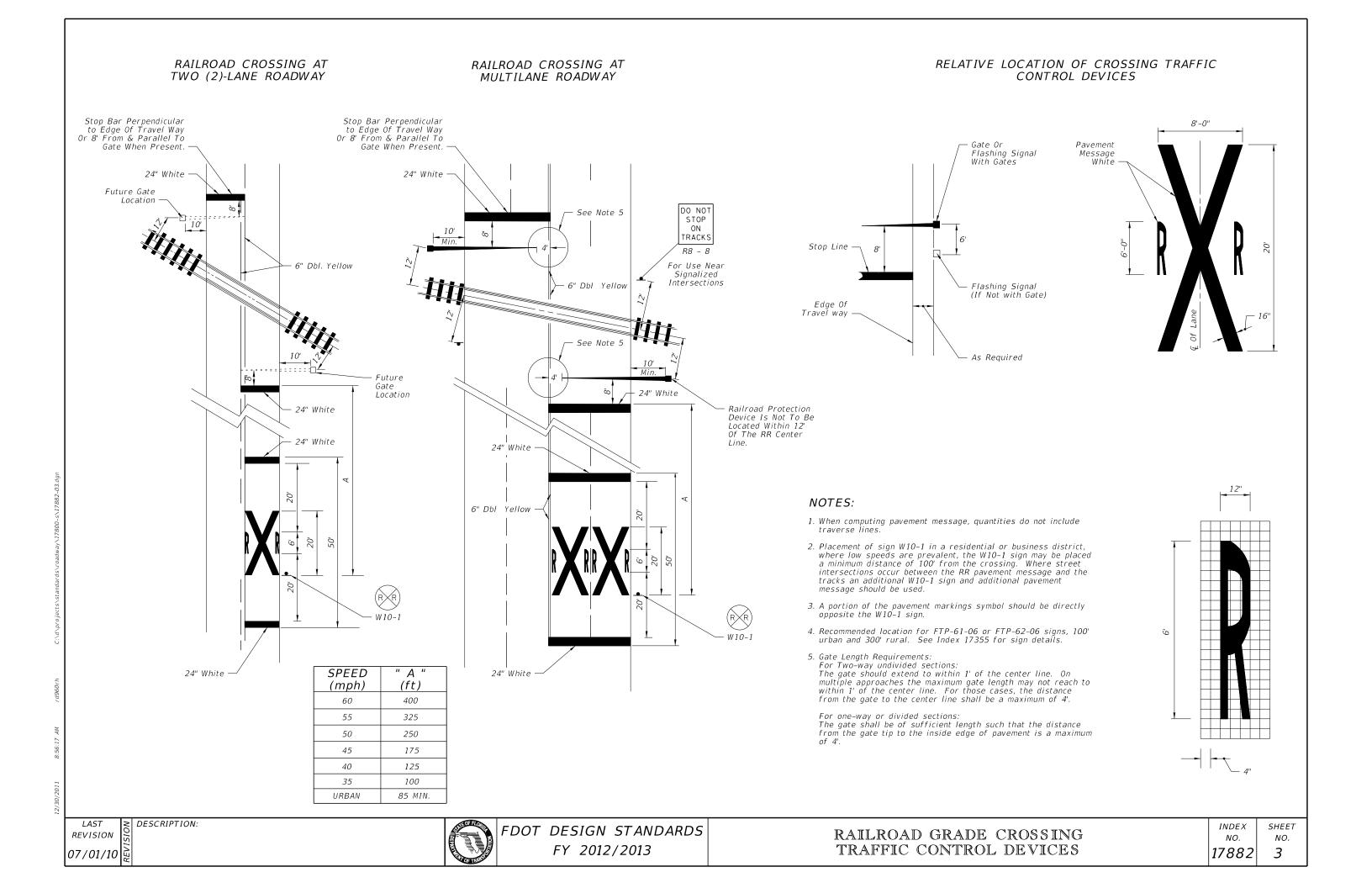
$\overrightarrow{TF 1} \overrightarrow{TF 2} \overrightarrow{TF 3}$ $(2+5) (2+6) (4+8)$	$\overrightarrow{TF 1} \overrightarrow{TF 2} \overrightarrow{TF 3}$ $(1+6) (2+6) (3+8R)$	$\overrightarrow{TF 1} \overrightarrow{TF 2} \overrightarrow{TF 3}$ $(2+5) (2+6) (8)$	TF 1 TF 2 TF 3 $2+5 2+6 3+8R$
SOP 11	SOP 12	SOP 13 (ONE- WAY STREET INTERSECTION)	(DIAMOND INTERCHANGE OPE
		01 (A) 02 (B) 03 (C) 04 (B)	01 (A) 02 (B) 03 (C)
TF 1 TF 2 TF 3 TF 4 $1+6 2+6 3+8 4+8$	TF 1 TF 2 2+6 P4	- TF 1 TF 2 TF 3 TF 4 2+5 2+6 3+8 2+6	- TF 1 TF 2 TF 3 TF $(1+6) (2+6) (4+7) (2+6)$
		NOTE: Only Ø2 Or Ø4 Used, Not Both To Obtain ABC, Or ACB Operation.	NOTE: Only Ø2 Or Ø4 Used, Not Both To Ob ABC, Or ACB Operation.
SOP 16	SOP 17 (MIDBLOCK)	SOP 18 (DIAMOND INTERCHANGE OPERATIONS)	(DIAMOND INTERCHANGE OPERA
From Normal Operation (Dwell)	From Normal Operation (Track Clearance) (Dwell)	From Normal Operation (Track Clearance) (Dwell)	HIGH VOLU HIGH VOLU $1 \\ 3 \\ -2 \\ -2 \\ -2 \\ -2 \\ -5 \\ -6 \\ -6 \\ 01 \\ 02 \\ 03 \\ 03 \\ 03 \\ 03 \\ 03 \\ 03 \\ 03$
			$6A \leftarrow \begin{bmatrix} TF & 1 \\ TF & 2 \end{bmatrix} \begin{bmatrix} 2A \\ 6 \end{bmatrix} \begin{bmatrix} TF & 5 \\ TF & 6 \end{bmatrix} \leftarrow 2 \\ \hline TF & 2 \end{bmatrix} \begin{bmatrix} 2A \\ 6 \end{bmatrix} \begin{bmatrix} TF & 6 \\ TF & 6 \end{bmatrix} \leftarrow 2 \\ \hline TF & 3 \end{bmatrix} \begin{bmatrix} TF & 7 \\ TF & 7 \end{bmatrix} \begin{bmatrix} T$
LAST S DESCRIPTION:	POP 2	POP 3	
REVISION OSIA		SIGN STANDARDS 2012/2013 STA	NDARD SIGNAL OPER.

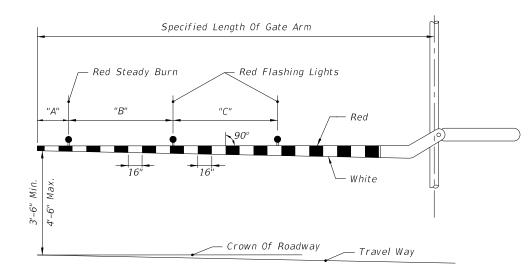












RAILROAD GATE ARM LIGHT SPACING

Dimension "A"

6"

18"

24"

28"

28"

28"

36"

36"

36"

36"

Dimension "B"

36"

36"

36"

41"

4'

5'

6'

7'

9'

10'

Dimension "C"

5'

5'

5'

5'

5'

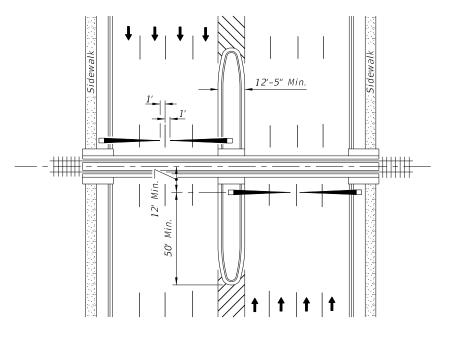
5'

6'

7'

9'

10'



PLAN

Type F Curb 6" Min. Height

NOTE: For additional information see the "Manual On Uniform Traffic Control Devices", Part 8; The "Traffic Control Handbook" , Part VIII; and AASHTO "A Policy On Geometric Design Of Streets And Highways".

MEDIAN SIGNAL GATES FOR

MULTILANE UNDIVIDED URBAN SECTIONS

(THREE OR MORE DRIVING LANES IN ONE DIRECTION, 45 MPH OR LESS)

LAST	N	DESCRIPTION:
REVISION	sic	
01/01/12	REVI	

Specified Length Of Gate Arm

14 Ft.

15 Ft.

16–17 Ft.

18-19 Ft.

20–23 Ft.

24-28 Ft.

29-31 Ft.

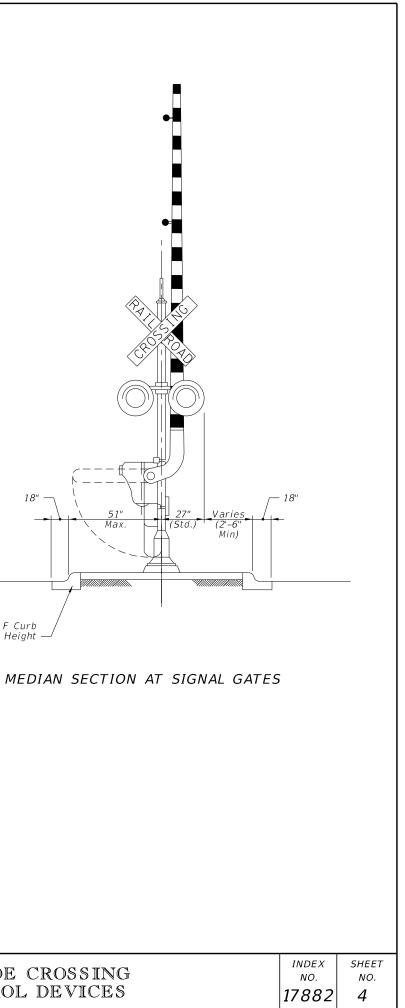
32–34 Ft.

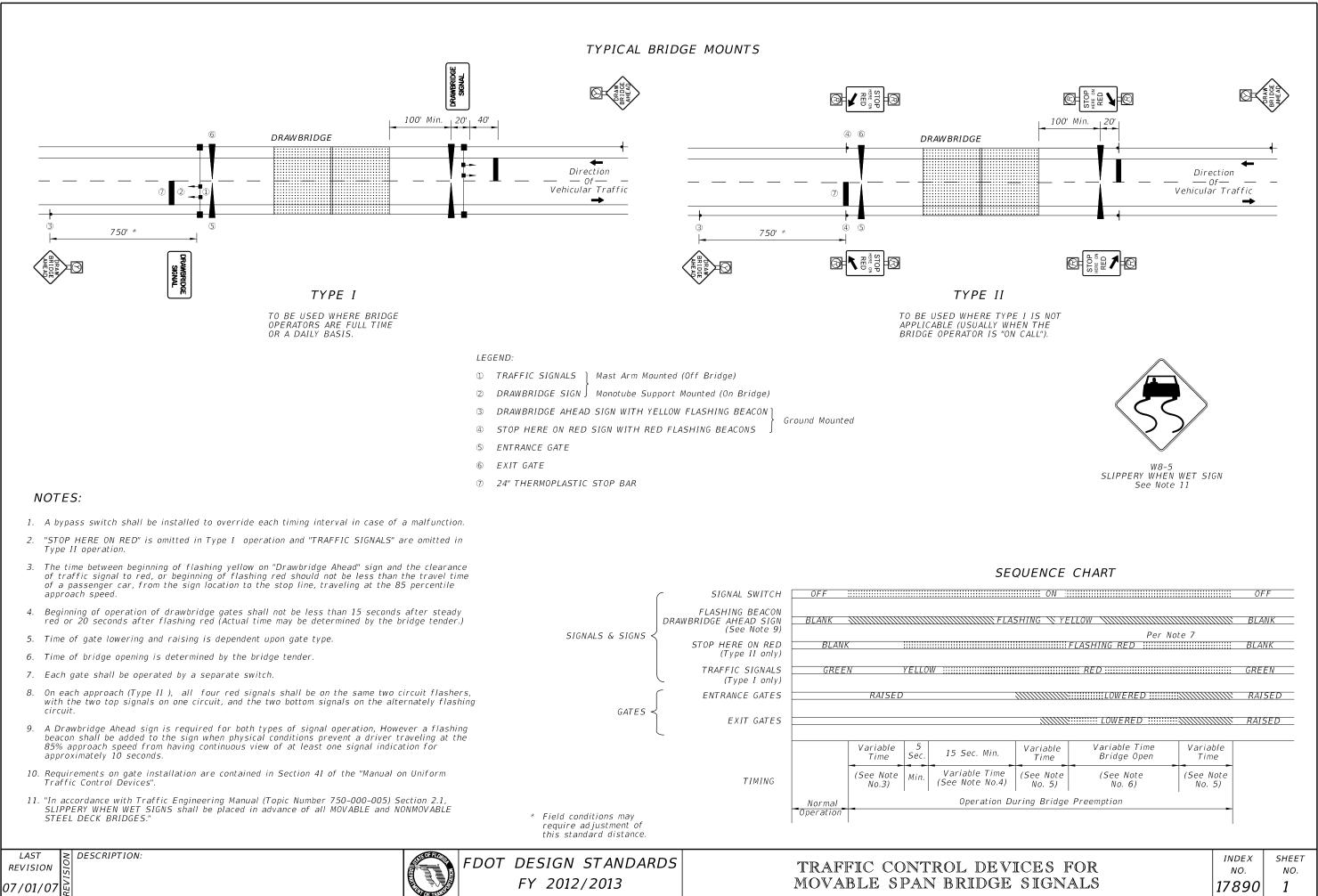
35-37 Ft.

38 And Over

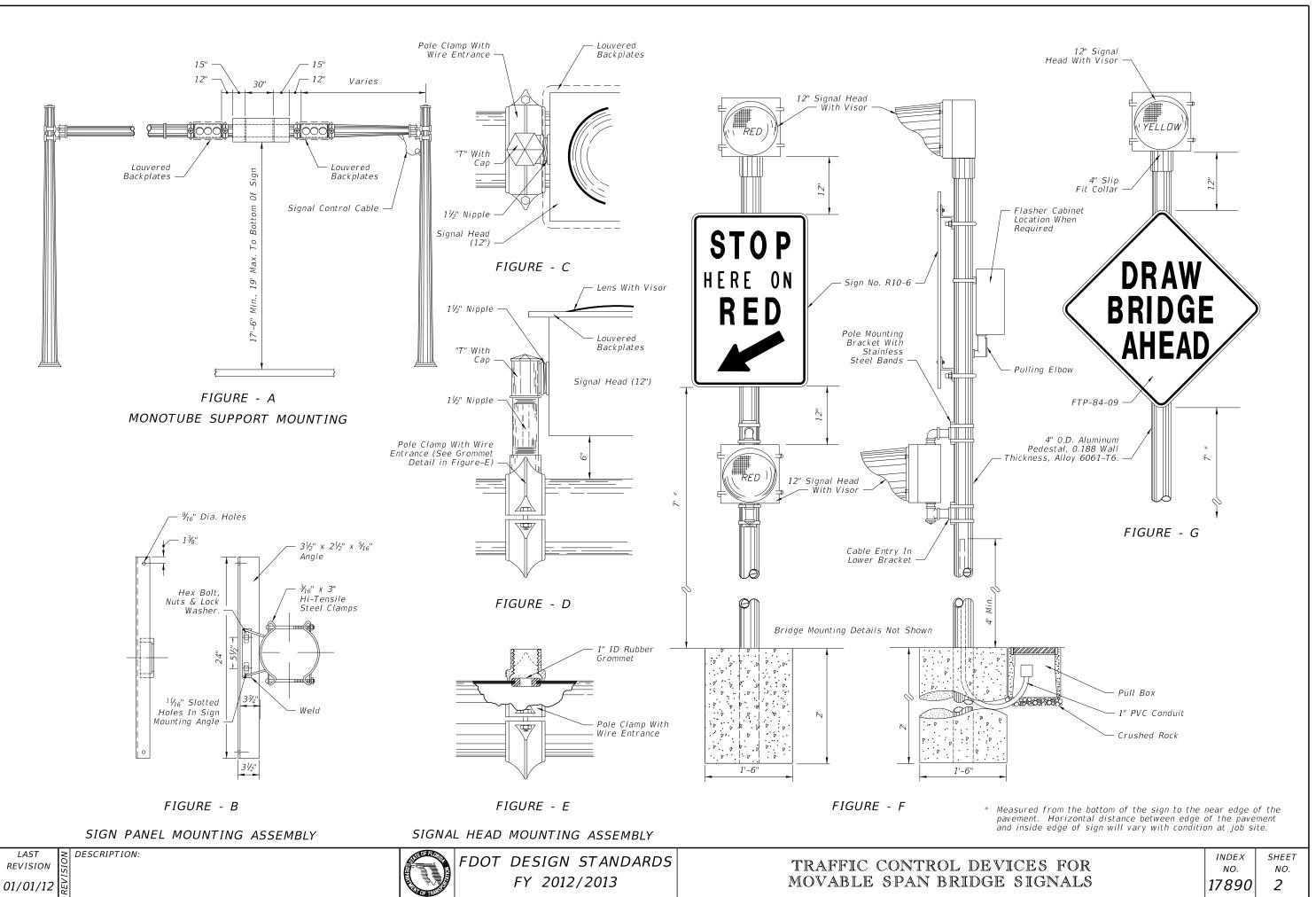


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