Origination Form

Proposed Revisions to a Standard Plans Index

Originator:	Gibbs, Shae	Index Number:	550-002
Date:	6/9/2025	Sheet Number(s):	All
E-mail:	shae.gibbs@dot.state.fl.us	Index Title:	Fence Type B

Summary of the changes:

ALL: General Redevelopment

Sheet 1: Deleted Materials notes and moved to division 3 Specification; Added FENCE POSITION AT LOCATIONS WITHOUT FRONTAGE ROADS details; Moved the CORNER OR END POST and PULL POST Details to Sheet 2.

Sheet 2: Moved GENERAL NOTES to Sheet 1: Moved the Design Note and Table to the Standard Plans Instructions; Added the CORNER OR END POST and PULL POST Details.

Sheet 3: Moved the FENCE POSITION AT LOCATIONS WITHOUT FRONTAGE ROADS details to Sheet 1; Updated the BASE PLATE AND ANCHOR NOTES - Clarified "Expansion Bolts Not Permitted." as Note 4.

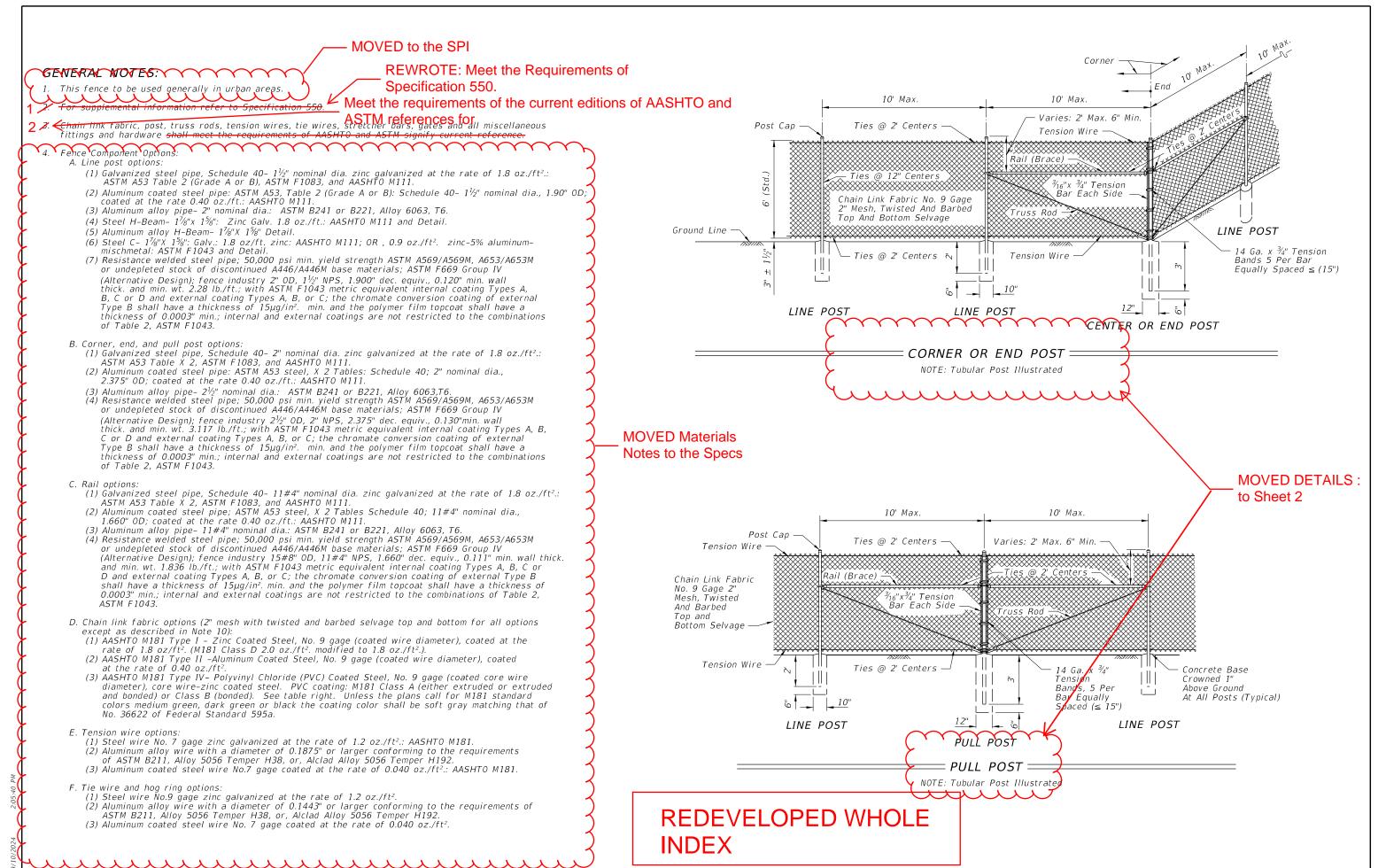
Commentary/Background:

General redevelopment done in-line with the updates to 550-001. Materials notes were moved to their respective Div III specs.

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 2026-27 (Next Cycle)



LAST REVISION 11/01/17

DESCRIPTION:

FDOT

SHEET

Unless a specific material is called for in the plans the Contractor may elect to use either a single type of material or a combination of material types from the component options listed in note 4. Combinations of optional materials are restricted as follows:

(a) Only one fabric optional material will be permitted between corner and/or end post assemblies.

(b) Only one line post optional material will be permitted between corner and/or end post assemblies.

- (c) Pull post assemblies shall be optional materials identical to either the line post optional material or the corner and end post assembly optional material; but, pull post assemblies shall be the same optional material between any set of corner and/or end post assemblies.

 Use Class NS concrete for bases
 Concrete for bases shall be Class NS concrete as specified in Specification 347

or a packaged, dry material meeting the requirements of a concrete under ASTM C-387. Materials for Class NS concrete may be proportioned by volume and/or by weight.

nstall 8'-6" long (Standard) line posts. Set line posts

Line post shall be 8'-6" long (Standard). Line post are to be set in concrete as described above or

by the following methods:

- - (a) In accordance with special details and/or as specifically described in the Contract Plans and
- (b) In accordance with ASTM F567 Subsections 5.4 through 5.10 as approved by the Engineer.
 Line post installed in accordance with Section 5.8 shall be 9'-6" long.
 (c) Post mounted on concrete structure or solid rock shall be mounted in accordance with the base plate detail "Fence Mounting On Concrete Endwalls And Retaining Wall", Sheet 3; or, by embedment in accordance with ASTM F567 Subsection 5.5.

Install End, pull and corner post assemblies shall be in concrete as detailed above for all soil conditions other than solid rock. Post within assemblies that are located on concrete structures or solid rock shall be set by base plate or by embedment as prescribed under (b) above for line post.

Set line post assemblies
Line and assembly posts for 6' fence which must be lengthened due to a variation in the normal ground clearance, shall be set an additional 3" in depth for each 1' of of additional ground clearance.

USE pull posts

-post-shall be used at breaks in vertical grades of 15° or more, or at approximately 350' centers except that this maximum interval may be reduced by the Engineer on curves where the curve is

Install corner posts

Corner most are to be installed at all horizontal breaks in fence at 15° or more and as required at vertical breaks over 15° as determined by the Engineer.

10. When fence has an installed top of fabric height less than 6' knuckled top and bottom selvages shall 10 be used unless the plans specifically identify locations for twisted selvage fabrics.

1. Unless sliding gates or special gates are called for in the plans, all gates shall be chain link swing gates meeting the material requirements described and as approved by the Engineer. Payment shall include the gates, single or double, all necessary hardware for installation and any additional length and/or size for

12. For construction purposes corner post assemblies shall consist of one corner post, two braces, two truss rods, and all necessary fittings and hardware as detailed. End post assemblies shall consist of one end post, one brace, one truss rod and all necessary fittings and hardware as detailed.

18. In areas where there are physical constraints outside the right-of-way which restricts the fence construction, the fabric may be installed on the inside of the posts..

MOVED To Standard Plans Instructions

TYPE IV VINYL COATED FABRIC								
	AASHTO M181 Table 4 Redefined As Follows							
				PVC Thickness Range				
Specit Of Me Core	ied Dia tallic Co Wire	meter pated		Coating (Extruded		Class A Or Extruded od Coating)		Class B Coating)
in.	mm	gage	oz./ft².	g/m²	in.	mm	in.	mm
0.148	3.77	9	0.30	92	0.015 to 0.025	0.38 to 0.64	0.006 to 0.010	0.15 to 0.25

DESIGN NOTE

This index details fencing that is constructed with chain link fabric 6' (nominal) in height and with specific ground clearance. For fencing of different height or installation details, the fence shall be fully detailed

in the Contract plans.

REDEVELOPED SHEET

MOVED into the

Specifications

REVISION

FDOT

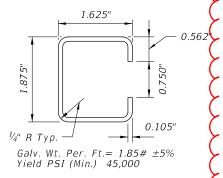
FY 2025-26 STANDARD PLANS

FENCE TYPE B

INDEX 550-002

2 of 3

DESCRIPTION:

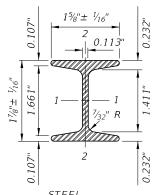


STANDARD WALL

THINWALL

 $0.91 \pm 5\%$ 30,000

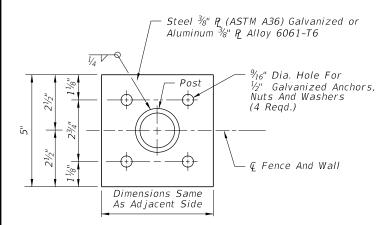
OPTIONAL "C" LINE POST



	STEEL	ALUMINUM
Area (Sg. In.)	724	724
Weight (Lb./Ft.)	$2.72 \pm 5\%$ (Galv.)	0.91 ± 1
Surface Area (SF/Ft.)	0.776	0.776
Tensile Strength (psi Min.)	80,000	30,000
Yielding Point (psi Min.)	48,000	25,000

	<i>Axes</i>	Axes	
	1-1 2-2	1-1 2-2	
Moment Of Inertia	0.428 0.101	0.428 0.101	
Section Modulus	0.456 0.124	0.456 0.124	
Rad. Of Gyration	0779 0373	0.779 0.373	

OPTIONAL 17/8" x 15/8" H-BEAM LINE POST

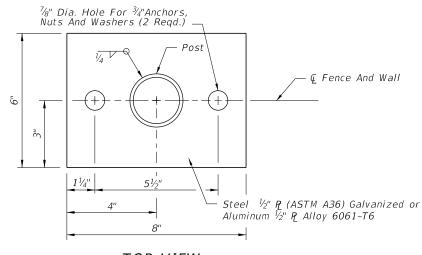


TOP VIEW FOUR ANCHOR PLATE OPTION

DESCRIPTION:

R/W Line 6" Or As Indicated In Plans Wire Fabric Private Property FENCE POSITION AT LOCATIONS WITHOUT FRONTAGE ROADS (REFER TO DETAIL PLANS FOR FENCE POSITION AT LOCATIONS WITH FRONTAGE ROADS) **MOVED: To Sheet 1**

REDEVELOPED SHEET



TOP VIEW TWO ANCHOR PLATE OPTION

45° Fence To Be Mounted On Restraint Side Unless Otherwise Called For In Plans (See Notes)

NOTES

- Attachments to be used only when called for in the plans.
 Attachments to extend in direction of restraint. Unless otherwise called for in plans, direction of restraint will be as follows:

 (a.) Outward on limited access right of way line.
 (b.) Outward on controlled access right of way line.
 (c.) Outward from utilities and hazardous facilities located

 - within highway right of way.
 - (d.) Outward from lateral ditches, outfalls, retention basins, canals, borrow areas and similar support facilities.
 - (e.) Inward on pedestrian ways.
- 3. The cap-arm shall be designed to provide a drive fit over the top of posts and to exclude moisture in posts with tubular sections.

BARB WIRE ATTACHMENT

BASE PLATE AND ANCHOR NOTES:

- 1. Base plate identical for line, pull, end and corner posts and shall be considered an integral part of the respective posts for basis of payment.
- 2. Post to be plumbed by grout shim under base plate
- 3. Anchors (Galvanized Steel):

 - 12" Cast In Place, 10½" Embedment: Headed Bolts, U-Bolts or Cluster Plates. 8"Adhesive Anchors, 6" Min. Embedment.*
 - *Adhesive Anchors, o First Embedments

 *Adhesive anchors shall be headless anchor bolts set in drilled holes with an Adhesive Material System in accordance with
 - Specifications 416 and 937; drilled holes shall be $\frac{1}{8}$ " larger in diameter than the anchor bolt.
- 4 Expansion Bolts Not Permitted.

FENCE MOUNTING ON CONCRETE ENDWALL AND RETAINING WALLS

REVISION

FENCE TYPE B

3 of 3

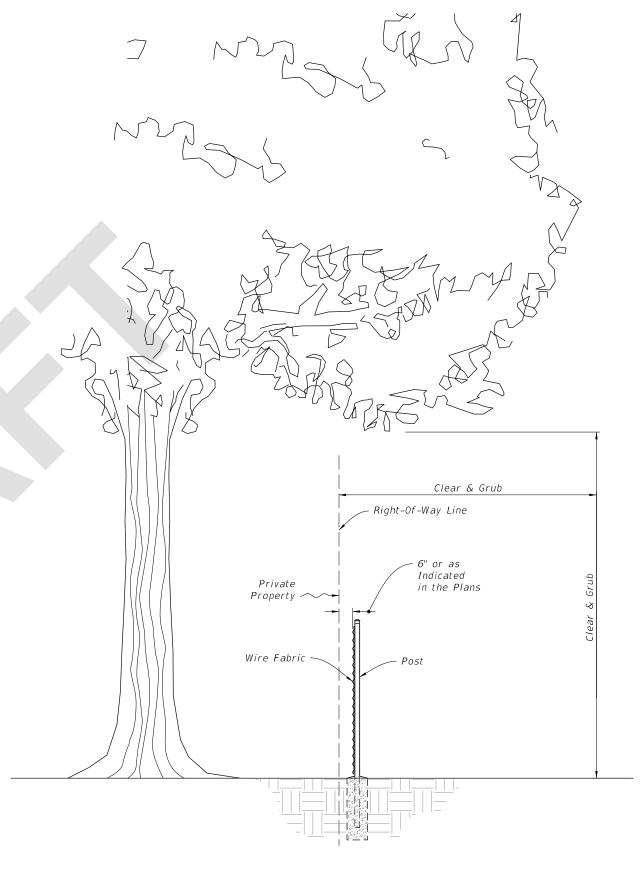
- 2. Meet the requirements of the current editions of AASHTO and ASTM references for chain link fabric, posts, truss rods, tension wires, tie wires, stretcher bars, gates and all miscellaneous fittings and
- 3. Unless a specific material is called for in the plans the Contractor may elect to use either a single type of material or a combination of material types from the component options listed in the Specificatons. Combinations of optional materials are restricted as follows:
 - (a) Only one fabric optional material will be permitted between corner and/or end post assemblies.
 - (b) Only one line post optional material will be permitted between corner and/or end post assemblies.
 - (c) Pull post assemblies must be optional materials identical to either the line post optional material or the corner and end post assembly optional material; but, pull post assemblies must be the same optional material between any set of corner and/or end post assemblies.
- 4. Use Class NS concrete for bases as specified in Specification 347 or a packaged, dry material meeting the requirements of a concrete under ASTM C-387. Materials for Class NS concrete can be proportioned by volume and/or by weight.
- 5. Install 8'-6" Long (Standard) line post. Set line posts in concrete as described above or by the following
 - (a) In accordance with special details and/or as specifically described in the Plans and Specifications.
 - (b) In accordance with ASTM F567 Subsections 5.4 through 5.10 as approved by the Engineer. For line posts installed in accordance with Subsection 5.8 using 9'-6" long posts.
 - (c) For posts mounted on concrete structure or solid rock do so in accordance with the base plate detail "Fence Mounting On Concrete Endwall And Retaining Walls", Sheet 3; or, by embedment in accordance with ASTM F567 Subsection 5.5.

Install end, pull, and corner post assemblies in concrete as detailed above for all soil conditions other than solid rock. Post within assemblies that are located on concrete structures or solid rock must be set by base plate or by embedment as prescribed under (b) above for line post.

For 6' fence that must be lengthened due to a variation in the normal ground clearance, set line post assemblies an additional 3" in depth for each 1' of of additional ground clearance.

- 6. Use pull post at breaks in vertical grades of 15° or more, or at approximately 350' centers except that this maximum interval may be reduced by the Engineer on curves where the curve is greater than 3°.
- 7. Install corner post at all horizontal breaks in fence at 15° or more and as required at vertical breaks over 15° as determined by the Engineer.
- 8. When fence has an installed top of fabric height less than 6' knuckled top and bottom selvages must be used unless the plans specifically identify locations for twisted selvage fabrics.
- 9. Unless sliding gates or special gates are called for in the plans, all gates must be chain link swing gates meeting the material requirements described and as approved by the Engineer.
- 10. For construction purposes corner post assemblies must consist of one corner post, two braces, two truss rods, and all necessary fittings and hardware as detailed. End post assemblies must consist of one end post, one brace, one truss rod and all necessary fittings and hardware as detailed.
- 11. In areas where there are physical constraints outside the right-of-way which restricts the fence construction, the fabric may be installed on the inside of the posts..

TABLE OF CONTENTS:				
Sheet	Description			
1	General Notes and Contents			
2	Corner or End Post Details and Pull Post Details			
3	C Line Post, H-Beam Line Post, Fence Mounting on Concrete Wall and Retaining Walls, and Barb Wire Attachment			



= FENCE POSITION AT LOCATIONS WITHOUT FRONTAGE ROADS =(REFER TO DETAIL PLANS FOR FENCE POSITION AT LOCATIONS WITH FRONTAGE ROADS)

REVISION

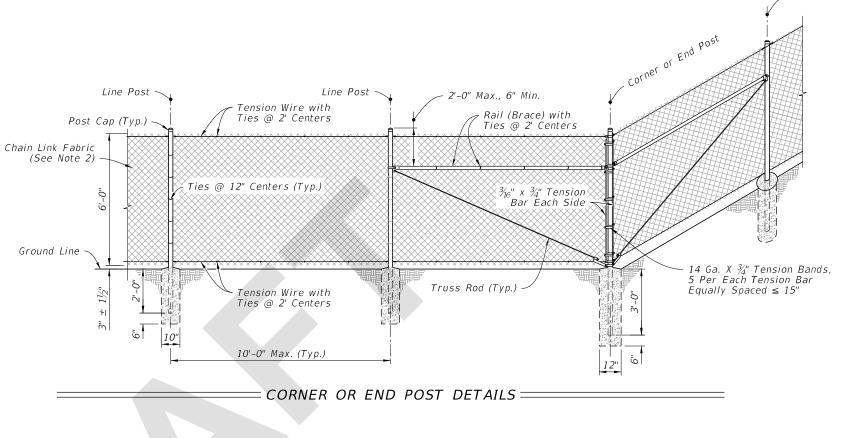
11/01/25

FDOT

FY 2026-27 STANDARD PLANS

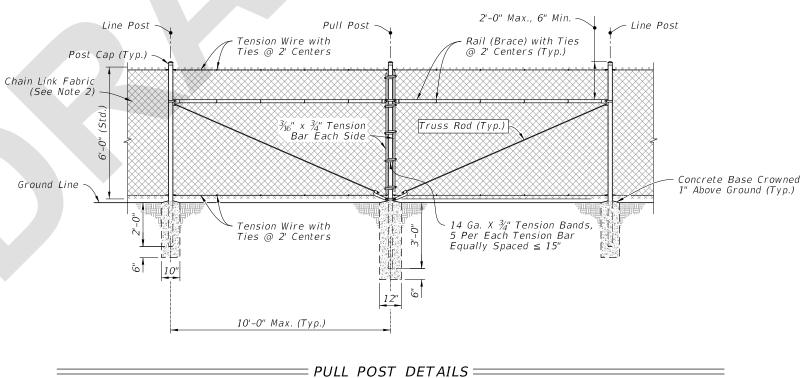
INDEX

SHEET



NOTES:

- 1. Tubular post shown, others similar.
- 2. Install No. 9 chain link fabric mesh, twisted and barbed top and bottom selvage. See Specification 550.



CORNER OF END POST DETAILS AND PULL POST DETAILS

REVISION 11/01/25

FDOT

FY 2026-27 STANDARD PLANS

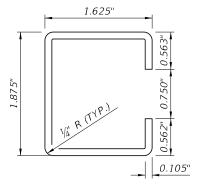
FENCE TYPE B

INDEX 550-002

SHEET 2 of 3

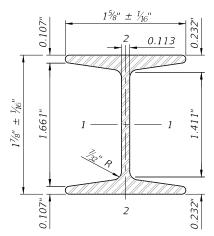
DESCRIPTION:

Galv. Wt. Per. Ft.= 2.34#±5% Yield PSI (Min.) 45,000 STANDARD WALL



Galv. Wt. Per. Ft.= 1.85#±5% Yield PSI (Min.) 45,000 THIN WALL

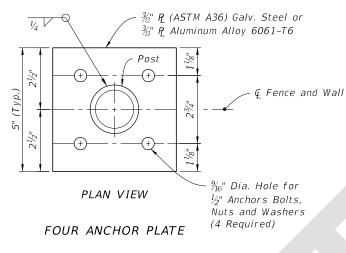
OPTIONAL "C" LINE POST ===

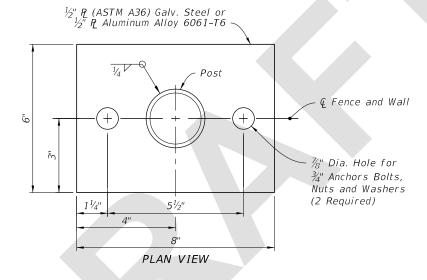


	<u>STEEL</u>	<u>ALUMINUM</u>
Area (Sq. In.)	724	724
Weight (Lb./Ft.)	2.72 ± 5% (Galv.)	$0.91 \pm 5\%$
Surface Area (SF/Ft.)	0.776	0.776
Tensile Strength (psi Min.)	80,000	30,000
Yielding Point (psi Min.)	48,000	25,000

	Axes		Axes
	1 – 1	2-2	1-1 2-2
Moment of Inertia	0.428	0.101	0.428 0.101
Section Modulus	0.456	0.124	0.456 0.124
Rad. of Gyration	0.779	0.373	0.779 0.373

OPTIONAL 1⁷/₈"x 1⁵/₈" = H-BEAM LINE POST

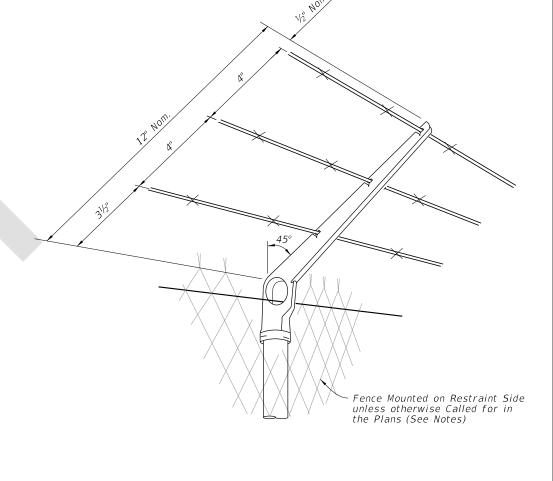




TWO ANCHOR PLATE NOTES:

- 1. Base plate identical for line, pull, end and corner posts and considered an integral part of the respective posts for basis of payment.
- 2. Post to be plumbed by grout shim under base plate.
- 3. Anchors (Galvanized Steel):
- 12" Cast In Place, 10½" Embedment: Headed Bolts, U-Bolts or Cluster Plates.
- Adhesive Anchors, 6" Min. Embedment. Adhesive anchors must be headless anchor bolts set in drilled holes with an Adhesive Material System in accordance with Specifications 416 and 937; drilled holes must be 1/8" larger in diameter than the
- 4. Expansion Bolts Not Permitted.

= FENCE MOUNTING ON CONCRETE ENDWALL AND RETAINING WALLS



NOTES:

- 1. Attachments to be used only when called for in the plans.
- 2. Attachments to extend in direction of restraint. Unless otherwise called for in plans, direction of restraint will be as follows:
 - a. Outward on limited access right of way line.
 - b. Outward on controlled access right of way line.
 - c. Outward from utilities and hazardous facilities located within highway right of way.
 - d. Outward from lateral ditches, outfalls, retention basins, canals, borrow areas and similar support facilities.
 - e. Inward on pedestrian ways.
- 3. Cap-arm must be designed to provide a drive fit over the top of posts and exclude moisture in posts with tubular sections.

 \equiv BARB WIRE ATTACHMENT ==

C LINE POST, H-BEAM LINE POST, FENCE MOUNTING ON CONCRETE WALL AND RETAINING WALLS, AND BARB WIRE ATTACHMENT

REVISION 11/01/25

DESCRIPTION:

FDOT

FY 2026-27 STANDARD PLANS

INDEX

SHEET

550-002 3 of 3