

GENERAL NOTES

- This fence to be used generally in urban areas.
- For supplemental information refer to Section 550 of FDOT Standard Specifications.
- Chain link fabric, post, rails, wires, tie wires, structure nails, spikes and all miscellaneous fittings and hardware shall meet the requirements of AASHTO and ASTM agency current references.
- Fence Component Options:
 - Line post options:
 - Galvanized steel pipe, Schedule 40, 1 1/2" nominal dia, zinc galvanized at the rate of 1.8 oz/ft²; ASTM A53 Table 2, ASTM A1063 and AASHTO M111.
 - Aluminum coated steel pipe, ASTM A53, Table 2 Grade A or B; Schedule 40, 1 1/2" nominal dia, 1.80 oz/ft²; coated at the rate 0.40 oz/ft²; AASHTO M111.
 - Aluminum alloy pipe, 2" nominal dia, ASTM B241 or B221, Alloy 6063, T6.
 - Steel H-Beam, 1 1/2" x 1 1/2", Zinc Galv, 1.8 oz/ft²; AASHTO M111 and Detail.
 - Aluminum alloy H-Beam, 1 1/2" x 1 1/2", zinc; AASHTO M111 OR, 0.9 oz/ft²; zinc-5% aluminum-magnesium; ASTM F1043 and Detail.
 - Resistive woven steel pipe, 50,000 psi min yield strength ASTM A501/A509M, A553/A553M or uncoated stock of discontinued A446/A446M base materials; ASTM F609 Group IV (Alternative Design: Fence Industry 213 OD, 2" IPS, 1.800 dec. equiv., 0.120 min. wall thickness and min. wt. 2.28 lbs/ft; with ASTM F1043 metric equivalent internal coating Types A, B, C or D and external coating Types A, B, or C; the chromate conversion coating of external Type B shall have a thickness of 15µm; min. and the polymer film coating shall have a thickness of 0.0002 min; internal and external coatings are not restricted to the combinations of Table 2, ASTM F1043.
 - Corner end and pull post options:
 - Galvanized steel pipe, Schedule 40, 2" nominal dia, zinc galvanized at the rate of 1.8 oz/ft²; ASTM A53 Table 2, ASTM A1063 and AASHTO M111.
 - Aluminum coated steel pipe, ASTM A53, Table 2 Grade A or B; Schedule 40, 2" nominal dia, 2.32 oz/ft²; coated at the rate 0.40 oz/ft²; AASHTO M111.
 - Aluminum alloy pipe, 2 1/2" nominal dia, ASTM B241 or B221, Alloy 6063, T6.
 - Resistive woven steel pipe, 50,000 psi min yield strength ASTM A501/A509M, A553/A553M or uncoated stock of discontinued A446/A446M base materials; ASTM F609 Group IV (Alternative Design: Fence Industry 213 OD, 2" IPS, 2.273 dec. equiv., 0.120 min. wall thickness and min. wt. 3.17 lb/ft; with ASTM F1043 metric equivalent internal coating Types A, B, C or D and external coating Types A, B, or C; the chromate conversion coating of external Type B shall have a thickness of 15µm; min. and the polymer film coating shall have a thickness of 0.0002 min; internal and external coatings are not restricted to the combinations of Table 2, ASTM F1043.
- Rail options:
 - Galvanized steel pipe, Schedule 40, 1 1/2" nominal dia, zinc galvanized at the rate of 1.8 oz/ft²; ASTM A53 Table 2, ASTM A1063 and AASHTO M111.
 - Aluminum coated steel pipe, ASTM A53, Table 2 Grade A or B; Schedule 40, 1 1/2" nominal dia, 1.80 oz/ft²; coated at the rate 0.40 oz/ft²; AASHTO M111.
 - Aluminum alloy pipe, 1 1/2" nominal dia, ASTM B241 or B221, Alloy 6063, T6.
 - Resistive woven steel pipe, 50,000 psi min yield strength ASTM A501/A509M, A553/A553M or uncoated stock of discontinued A446/A446M base materials; ASTM F609 Group IV (Alternative Design: Fence Industry 130 OD, 1 1/2" IPS, 1.800 dec. equiv., 0.111 min. wall thickness and min. wt. 1.85 lb/ft; with ASTM F1043 metric equivalent internal coating Types A, B, C or D and external coating Types A, B, or C; the chromate conversion coating of external Type B shall have a thickness of 15µm; min. and the polymer film coating shall have a thickness of 0.0002 min; internal and external coatings are not restricted to the combinations of Table 2, ASTM F1043.
- Chain link fabric options (2" mesh with twisted and barbed sheave top and bottom sheaves for all options except as described in 804a No. 10):
 - AASHTO M181 Type 1 - Zinc Coated Steel, No. 9 gauge coated wire diameter, coated at the rate of 1.8 oz/ft²; (M181 Class D 2.00 OD, reduced to 1.75 OD).
 - AASHTO M181 Type 2 - Aluminum Coated Steel, No. 9 gauge coated wire diameter, coated at the rate of 0.40 oz/ft².
 - AASHTO M181 Type 3 - Polyvinyl Chloride (PVC) Coated Steel, No. 9 gauge coated wire diameter, coated with zinc coated steel, PVC coating M181 Class A either hot-dipped or extruded and polymer of Class B (impact) and trade name, unless the manufacturer's name is stated, shall be medium green, dual green or black; the coating color shall be solid gray matching that of No. 36022 or Federal Standard 595a.
- Tension wire options:
 - Steel wire No. 7 gauge zinc galvanized at the rate of 1.2 oz/ft²; AASHTO M181.
 - Aluminum alloy wire with a diameter of 0.1875" or larger conforming to the requirements of ASTM B241, Alloy 6063 T602, H32, or Alloy 6061 T602.
 - Aluminum coated steel wire No. 7 gauge coated at the rate of 0.40 oz/ft²; AASHTO M181.
- Tie wire and top ring options:
 - Steel wire No. 9 gauge zinc galvanized at the rate of 1.2 oz/ft².
 - Aluminum alloy wire with a diameter of 0.1875" or larger conforming to the requirements of ASTM B241, Alloy 6063 T602, H32, or Alloy 6061 T602.
 - Aluminum coated steel wire No. 7 gauge coated at the rate of 0.40 oz/ft².

GENERAL NOTES CONTINUED

- 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 material types are restricted as follows:
 - Only one fabric optional material will be permitted between corner and/or end post assemblies.
 - Only one line post optional material will be permitted between corner and/or end post assemblies.
 - Pull post assemblies shall be optional materials identical to either the longest optional material or the corner and end post assembly optional material, but pull post assemblies shall be the same optional material selected any set of corner and/or end post assemblies.
- Concrete for bases shall be Class NS concrete as specified in Section 342 of the Standard Specifications or a packaged dry mix blend meeting the requirements of a concrete under ASTM C-389. Materials for Class NS concrete may be proportioned by volume and/or by weight.
- Line post shall be 6'-6" long (standard); line post are to be set in concrete as described above or by the following methods:
 - In accordance with special details and/or as specifically described in the contract plans and specifications.
 - In accordance with ASTM F567, Subsections 3.4 through 3.10 as approved by the Engineer. Line post installed in accordance with Section 3.8 shall be 9'-6" long.
 - When installed in concrete structures for solid rail, shall be installed in accordance with the base plate detail of Base Mounting in Concrete Retaining Walls and Retaining Wall, Sheet 3, or by embedment in accordance with ASTM F567 Subsection 3.5.
- End post 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.
- Line and assembly posts for (f) fence shall be installed due to a variation in the normal ground clearance, shall be set an additional 3" in depth for each 1" or of additional ground clearance.
- Pull post shall be installed at breaks in vertical planes at 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 2'.
- Corner post 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.
- When fence has an installed top of fabric height less than 6' knocked top and bottom sheaves shall be used unless the plans specifically identify locations for stretched sheave fabric.
- Unless sliding gates or similar gates are called for in the plans, all gates shall be chain link fabric meeting the material requirements described and as approved by the Engineer. Paved and concrete gates, single or double, all necessary hardware for installation and any additional length of chain link fabric at the opening shall be paid for under the contract unit price for fence.
- For construction purposes corner post assemblies shall consist of one corner post, two brackets, one truck rod, and all necessary fittings and hardware as detailed and approved unless otherwise specified, and price, and all necessary fittings and hardware as detailed.
- In areas where there are physical constraints outside the right-of-way which restricts the fence location, the fabric may be installed on the inside of the posts.

TYPE IV VINYL COATED

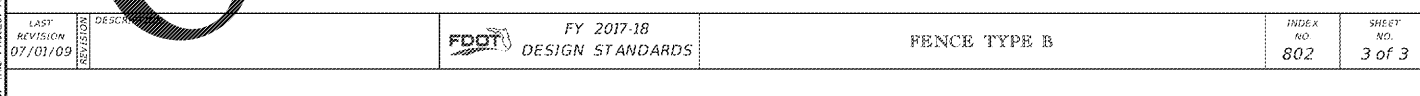
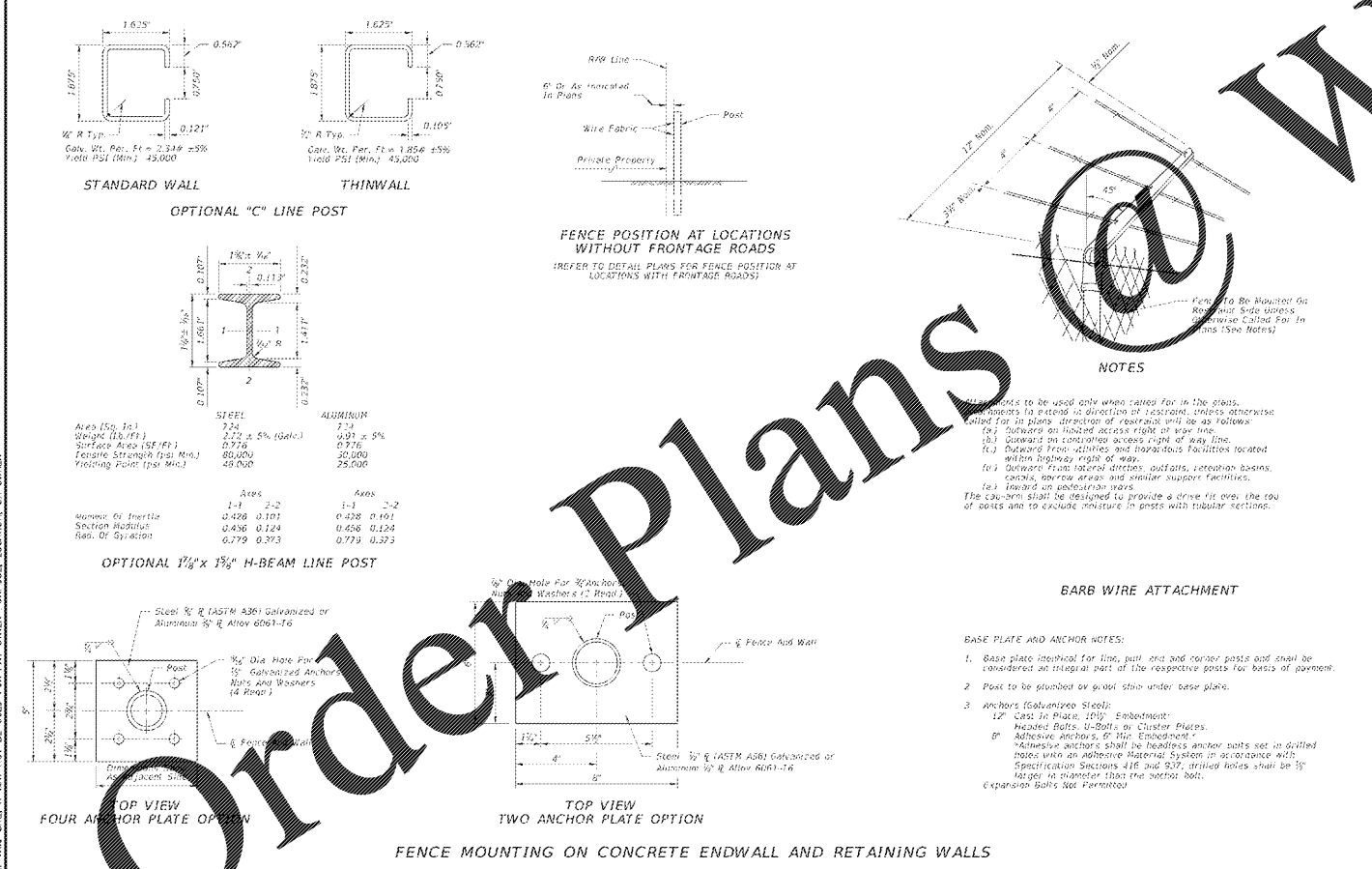
AASHTO M181 Table 2, as follows:

Standard Diameter of Coated Wire	Zinc Coating	Aluminum Coating	M181 Class A (Standard Coating)		M181 Class B (Bonded Coating)	
			oz/ft ²	µm	oz/ft ²	µm
0.149	3.7	9	0.015	0.38	0.006	0.15
			0.025	0.64	0.010	0.25

DESIGN NOTE

This detail is for fencing that is constructed with chain link fabric (standard in the plans) with specific ground clearance.

LAST REVISION	DESCRIPTION	FY 2017-18 DESIGN STANDARDS	FENCE TYPE B	INDEX NO. 802	SHEET NO. 1 of 3	LAST REVISION	DESCRIPTION	FY 2017-18 DESIGN STANDARDS	FENCE TYPE B	INDEX NO. 802	SHEET NO. 2 of 3
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LAST REVISION	DESCRIPTION	FY 2017-18 DESIGN STANDARDS	FENCE TYPE B	INDEX NO. 802	SHEET NO. 3 of 3
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FENCE LOCATION DETAIL AT POND BANK PERIMETER

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SCALE	N.T.S.
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NO.	DESCRIPTION	DATE	REVISIONS
1			
2			
3			
4			
5			

SITE PLAN DETAILS

C-3.3