GENERAL NOTES

1. This fence shall be provided generally in rural areas. For supplemental information see Section 550 of the FDOT Specifications.

2. Fabric shall be woven wire, galvanized steel, meeting the requirements of ASTM A616, No. 9 Grade 60, Design Number 1024-6-9, with Class 3 zinc coating, No. 17 1/4 Grade 175, Design Number 1024-6-15, with a 16 1/2 gauge top and bottom wire and with Class 3 zinc coating, or aluminum coated steel, meeting the requirements of ASTM A580, No. 175, Design Number 1024-6-8, with a minimum coating weight of 0.04 oz./ft.². For additional information see payment notes below.

3. Fence shall be installed with a side to private property except on horizontal curves greater than 3° the fence shall be installed so as to pull against all posts.

4. Posts may be either timber, steel, recycled plastic or concrete. Unless a specific post material is called for in the plans, the Contractor may use either a single material or a combination of timber, steel, recycled plastic or concrete materials. Line posts of one material may be used with corner and end post assemblies of a different material. Line posts of only one optional material and pull post assemblies of only one optional material will be permitted between corner and end post assemblies. Within individual corner and end post assemblies only one optional material will be permitted.

5. Post materials shall meet the material requirements of Section 00414. Timber line posts are to be minimum 4" diameter. Timber corner, pull, approach and end posts are to be minimum 3" diameter. Timber bracing to be minimum 2" dia.

6. Steel posts and braces shall be standard steel posts, galvanized at the rate of 2 oz./ft.², together with necessary hardware and wire clamps and meeting the following requirements:

   (A) Line posts 8' long, 1-1/16 in., round form of tubing, anchor plate attached (33 in/l)

   (B) Approach posts, 29' x 29' x 1/4 angles, 8' long, fabricated for attaching brace, with necessary hardware, clamps, etc. (24 in/l)

   (C) Pull, corner, approach and end posts 7'6" long, fabricated for attaching brace, with necessary hardware, clamps, etc. (24 in/l)

   (D) Braces: 2 x 2 x 1/4 angles, 8' long, fabricated for attaching to post. (24 in/l)

   (E) Pull, corner, approach and end posts are to be set in concrete as per detail. (Also see General Note No. 15)

7. Recycled plastic posts shall meet the following material requirements. Line posts shall have a minimum section of 4 round or square. Plastic posts shall not be used as corner, pull, end or approach posts unless such size is specified in the plans. Plastic post material shall have a minimum flexural strength of 4,200 psi. Plastic posts are to be fabricated for attaching brace and connection to plastic line posts shall be the same size, count and location as that for timber posts.

8. The Contractor, at his option, may use any suitable prestressed or precast concrete posts; however, approval or the Engineer, of posts not shown on this index, will be required prior to construction of the fence. Precast post shall be Class I concrete. Precast posts shall be Class III concrete. Lengths of concrete post to be as indicated for timber posts.

9. Aluminum post, braces and accessory framing hardware shall not be used unless the plans specifically detail their application or the Engineer specifies and approves their incorporation in fence construction or repair. Aluminum framed gates are permitted as described in General Note 19.

10. The woven wire shall be attached to steel and concrete posts by a minimum of five tie wires. The single wire ties shall be applied to the top, bottom and three intermittent line wires. The ends of each tie wire shall have a minimum of two tight turns around the line wire. Tie wires shall be steel wire not less than 0.120" diameter, zinc coating Class 3, soft temper, in accordance with ASTM A641.

11. Steel Barbed Wire can be either of the following types:

   Type I: This type shall conform to the requirements of ASTM A211, with two strands of 190 gage, four-point barbs, wire size 14 gage, twisted around both line wires; and, Class 3 coating, Design No. 15-4-14R.

   Type II: This type same as Type I except the two strand wires are twisted in alternating directions between the barbs.

   Type III: This type shall conform to the requirements of ASTM A211, with two strands of 175 gage, high tensile wire, four-point barbs, wire size 18 gage, twisted around both line wires; and, Class 3 coating, Design No. 15-4-16R.

Aluminum Barbed wire shall be fabricated from strands of 0.110-inch wire with 0.080-inch diameter four-point barbs spaced at approximately 5°, and at a maximum spacing of 6°. The wire for the strands and the barbs shall be of ASTM 4331M Alloy 5052-H36 or equal.

12. The woven wire shall be stretched only until one-half the tension curve has been pulled out of the line wires.

13. Post to be set by driving or digging. If by digging, the posts shall be set at the center of the hole and the soil tamped securely on all sides.

14. Longer posts than those indicated above may be required by the plans or for deeper installations.

15. Concrete bases for angular steel posts (pull, corner, end and approach) shall be Class NS as specified in Section 347. Materials for Class NS concrete may be proportioned by volume and/or weight.

16. Pull post assemblies shall be installed at approximately 339 centers except that this maximum interval may be reduced by the Engineer on curves where the radius is less than 300.

17. Corner post assemblies are to be installed at all horizontal and vertical breaks in fence of 15° or more.

18. A maximum length of 1320' of wire may be installed as a unit. For pulls through a pull post assembly the fabric shall be applied by crimping sleeves only. Pulls through a corner post assembly will not be permitted.

19. Unless otherwise called for in the plans gates shall be commercially available metal swing gates assembled and installed in accordance with the manufacturer’s specifications as approved by the Engineer. Chain link swing gates shall not be used. Gates shall have a minimum clearance of 60" from the top of the fence. Gate size is full opening width whether single leaf or double leaves. Payment for gates shall include the gate, single or double, all necessary hardware for installation and any additional length and/or size for posts at the opening. Gates shall be paid for under the contract unit price for Fence Gates, EA.

20. For construction purposes, assemblies are defined as follows: End post assemblies shall consist of one end post, one approach post, four diagonal tension wires and all necessary fittings and hardware. Pull post assemblies shall consist of one pull post, two braces, four diagonal tension wires and all necessary fittings and hardware. Corner post assemblies shall consist of one corner post, two approach posts, four braces, eight diagonal tension wires and all necessary fittings and hardware.

21. All posts, braces, tension wires, fabric, tie wires, Class NS concrete, and all miscellaneous fittings and hardware to be included in the cost for Fencing, UA. Fencing shall be inclusive of the lengths of pull, end and corner post assemblies, but exclusive of gate widths.
This index details fencing that is constructed with farm fabric (46") in height and with specific ground clearance and specific barbed wire spacings. For fencing of different height or installation details, the fence shall be fully detailed in the Contract plans.
FASTENER FOR CONCRETE POST AND BRACES

FASTENER FOR TIMBER POST AND BRACE

ALTERNATE CONCRETE POSTS AND BRACES

SPLICES