JEFFERSON COUNTY, TEXAS ENGINEERING DEPARTMENT

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DESCRIPTION

TITLE SHEET

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FOR SHEET

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DETAILS

*WF(1) - 10

*WF(2) - 10

PLANS OF PROPOSED
LABELLE ROAD EXTENSION
RIGHT-OF-WAY FENCING

BRADLEY STEVEN STAFFORD
70807

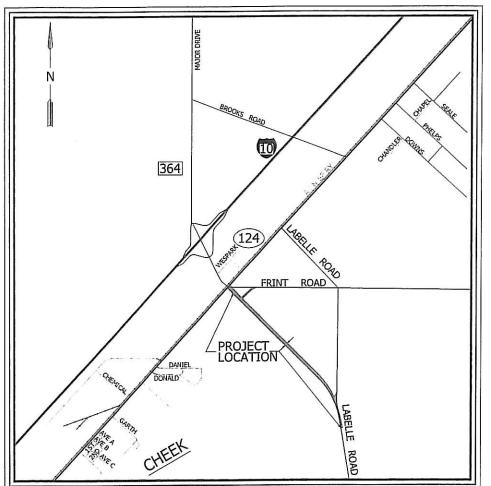
Bradley Steven STAFFORD, P.E.

P.E. 1-30-13

REGISTERED PROFESSIONAL ENGINEER NO. 70807

* THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION, JUNE 1, 2004 AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS, SHALL GOVERN ON THIS PROJECT: REQUIRED CONTRACT PROVISIONS FOR ALL FEDERAL CONSTRUCTION CONTRACTS (FORM FHWA 1273, DECEMBER 1993)



PROJECT LOCATION

LAYOUT SCALE: N.T.S.

DATE WORK BEGAN:	38. 30 J. 1993 - 1993 - 1993 - 1993 - 1993 - 1993 - 1993 - 1993 - 1993 - 1993 - 1993 - 1993 - 1993 - 1993 - 19
DATE WORK COMPLETED:	
CONTRACTOR:	
JSED OFDAYS ALLO	TTED
PROJECT COST:	
RESPONSIBLE ENGINEER FOR CO	NSTRUCTION
AND FINAL PLAN PREPARATION:	
	DATE

FINAL PLANS

APPROVED FOR LETTING

DIRECTOR OF ENGINEERING



JEFFERSON COUNTY

LABELLE ROAD EXTENSION RIGHT-OF-WAY FENCING

SHEET 1 OF 1

DESIGN J.D.
CHECKED D.R.

NO.

ESTIMATE SUMMARY SHEET

	ITEM	CODE	SPL	DESCRIPTION	UNIT	TOTAL QUANTITY	
	500	2001	011	MOBILIZATION	LS	1.00	
	502	2001	033	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO	2.00	
	550	2003		CHAIN LINK FENCE (REMOVE)	LF	294.00	
	552	2003		WIRE FENCE (TY C)	LF	15822.00	
	552	-2005		GATE (TY 1)	EA	4.00	
	552			WIRE FENCE (REMOVE)	LF	2294.00	
				Alternate 1			
	552	2001		WIRE FENCE (TY A)	LF	15822.00	
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LABELLE ROAD EXTENSION RIGHT-OF-WAY FENCING

ESTIMATE SUMMARY SHEET

SHEET 1 OF 1

SHEET NO. 2

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Sheet:_____

County:

Jefferson County

Project:

Labelle Rd Fencing

General Notes:

The base bid for this project will include galvanized barbed wire fence with metal posts (Type "C" Fence). Each bidder will also submit an alternate bid for galvanized barbed wire fence with wood posts (Type "A" Fence). If none of the base bids are within the project budget, then the alternate bids will be used to determine the low bidder.

Provide a Contractor's Responsible Person and a phone number for emergency contact.

Assume ownership for all designated waste material and dispose of it at a place off of the right of way, as approved by the engineer.

Item 6: Control of Materials

The Contractor will be responsible for all testing or having testing performed by an acceptable testing company. Consider this work to be subsidiary to the various bid items of the contract.

Item 502: Barricades, Signs, and Traffic Handling

Remove all traffic control devices from the project area when they are not in use.

Item 550: Chain Link Fence

Removal of a gate on a chain link fence will be paid per linear foot as removal of chain link fence.

Item 552: Wire Fence

Removal of existing barbed wire fence shown on the plans will be paid for by the linear foot under this item.



LABELLE ROAD EXTENSION RIGHT-OF-WAY FENCING

GENERAL NOTES
SHEET 1 OF 1

IGN	J.D.	
CKED	D.R.	

SHEET NO.







BRADLEY STEVEN STAFFORD, P.E.
REGISTERED PROFESSIONAL ENGINEER NO. 70807

1-30-13 DATE



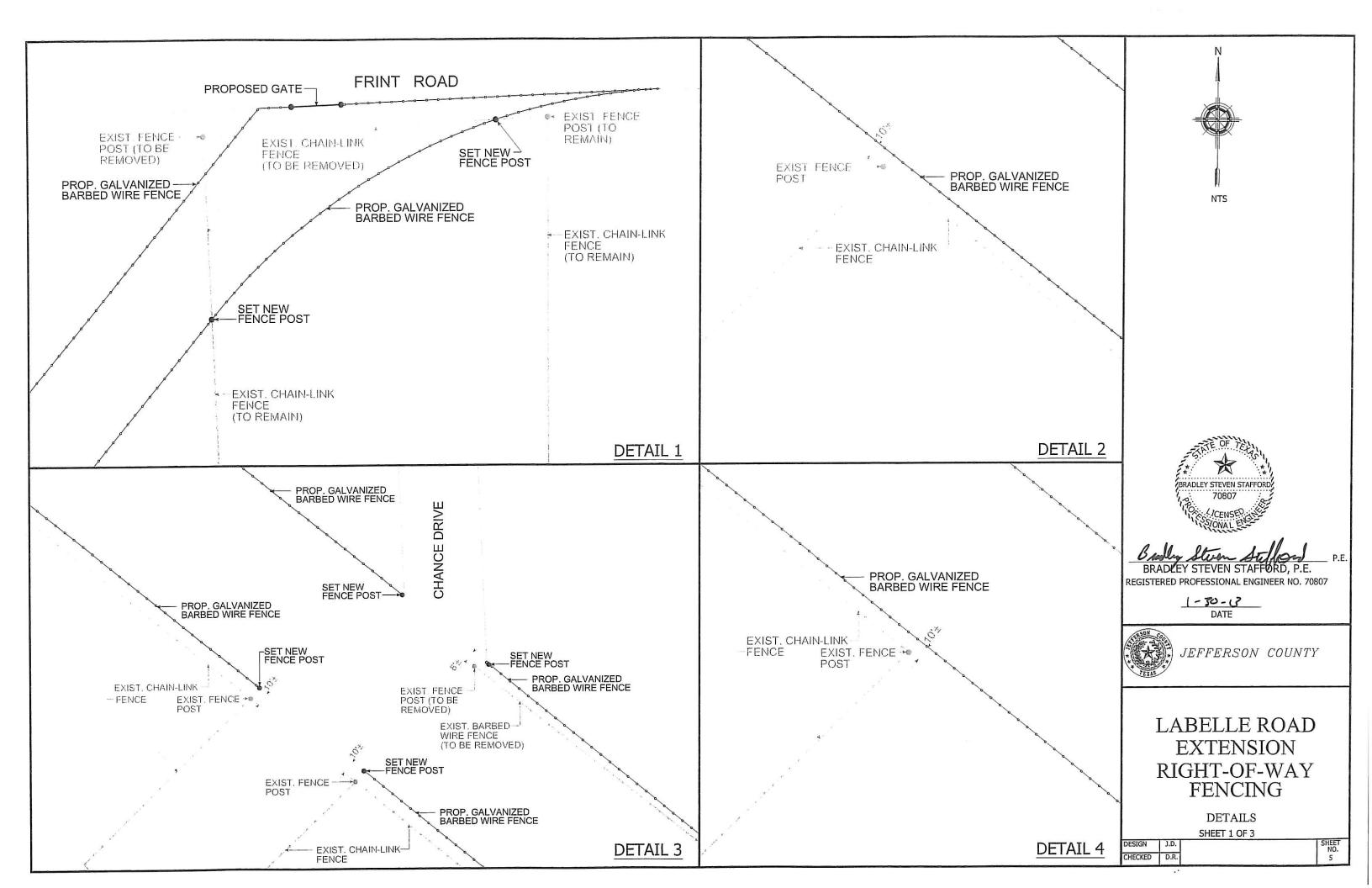
JEFFERSON COUNTY

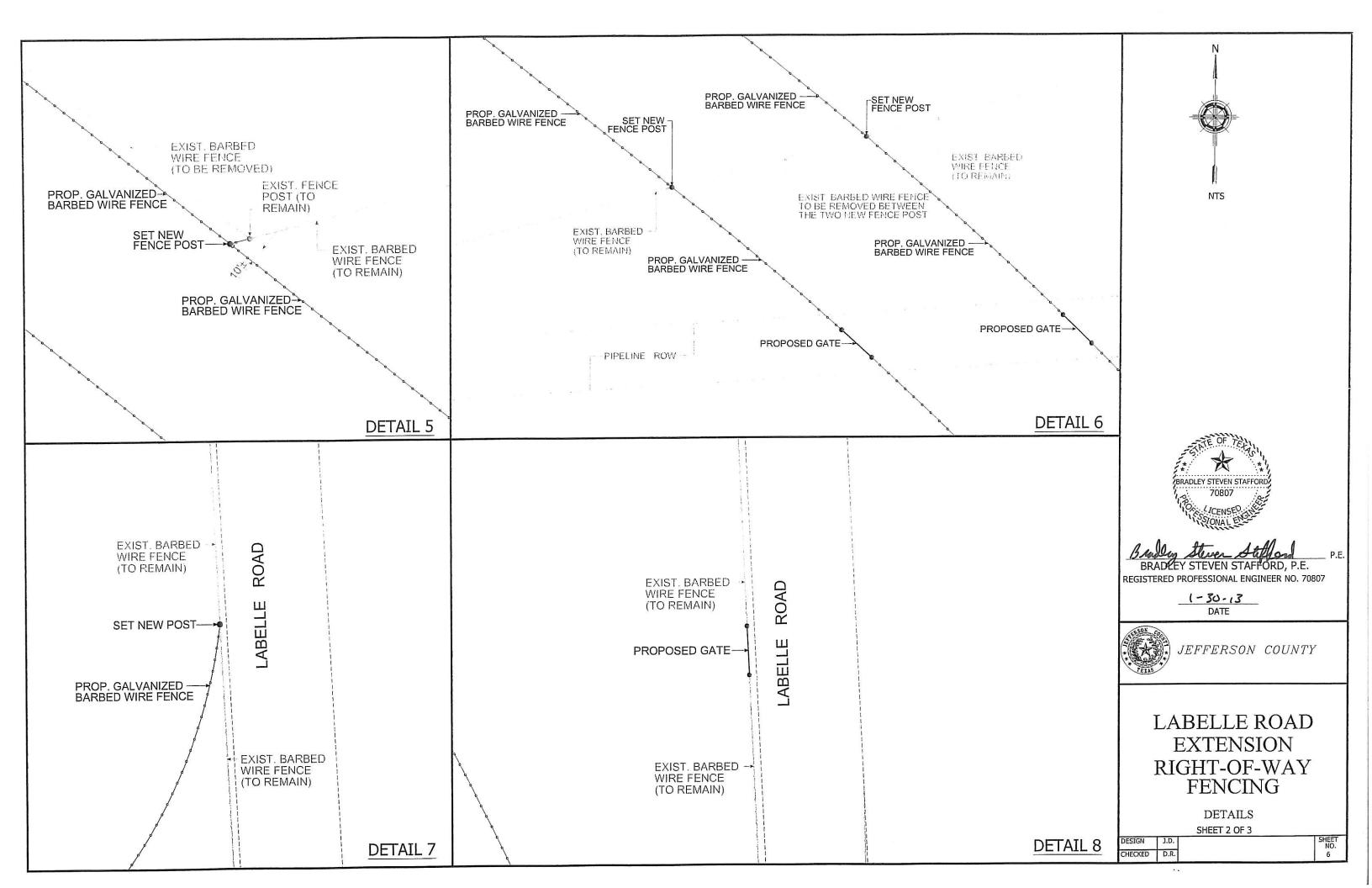
LABELLE ROAD EXTENSION RIGHT-OF-WAY FENCING

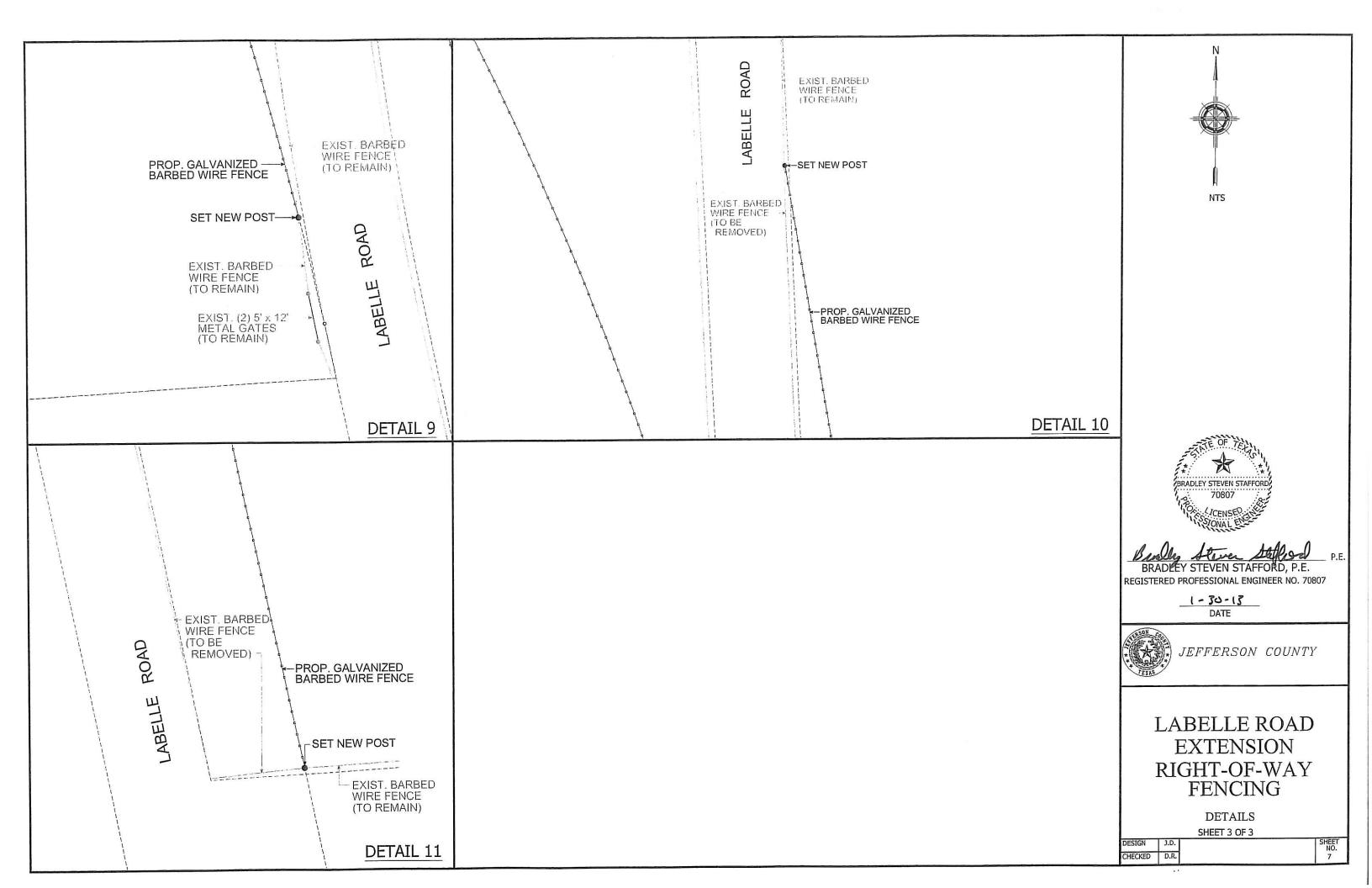
PROJECT LAYOUT SHEET 1 OF 1

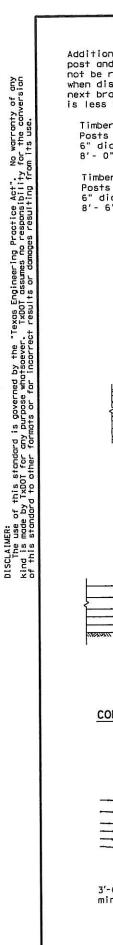
DESIGN	J.D.
CHECKED	D.R.

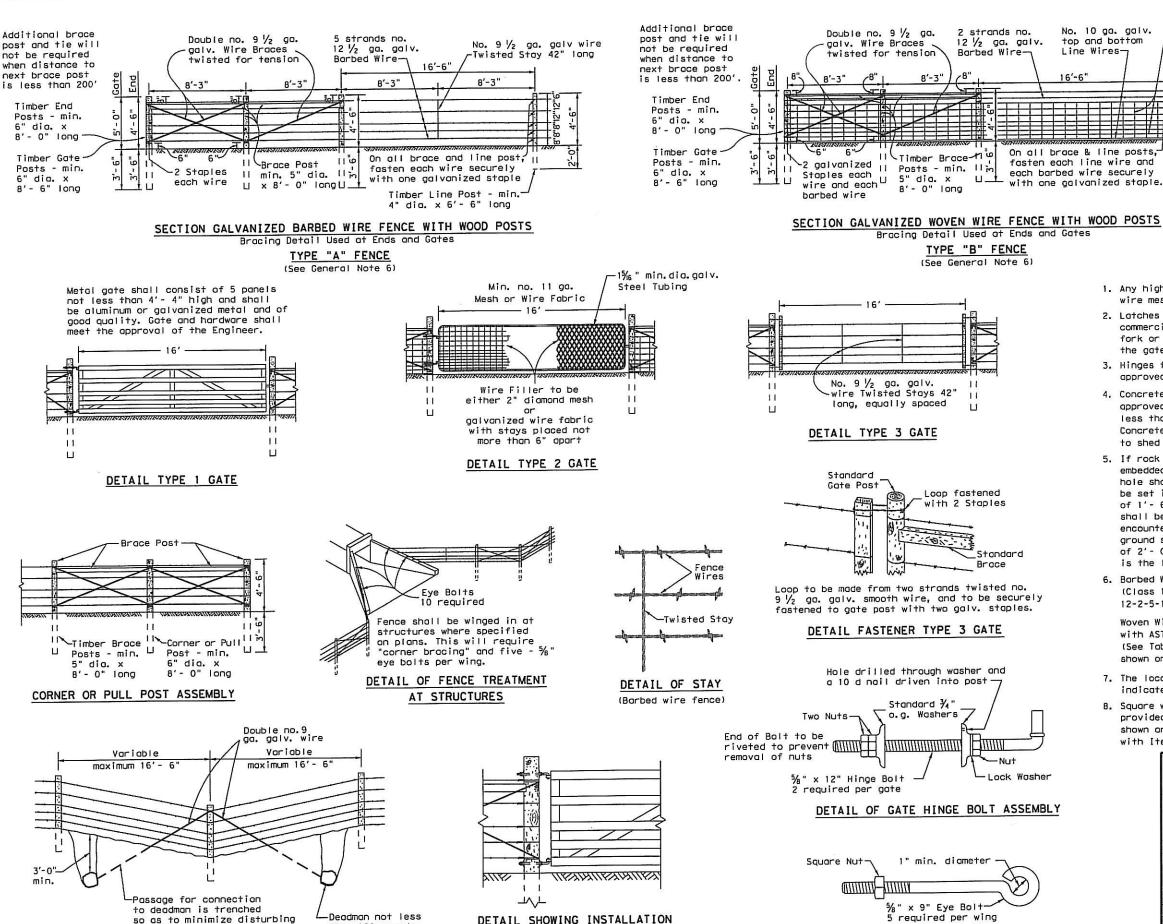
SHEET NO. 4











DETAIL SHOWING INSTALLATION

OF HINGES OF TYPE 1 & 2 GATE

-Deadman not less

than 100 pounds

so as to minimize disturbing

DETAIL OF FENCE SAG (Single Line Connection)

of soil in area.

TABLE OF EQUIVALENT SIZES FOR OPTIONAL SHAPE

Minimum Diameter of Round Post (Inches)	Minimum Equivalent Dimension for Each Side of Square Post (Inches)				
4	3 ⅓				
5	4 1/2				
6	5 1/4				

GENERAL NOTES

1. Any high point which interferes with the placing of wire mesh shall be excavated to provide 2" clearance.

No. 12 ½ ga. galv. -Line Wires and

Timber Line Post - min.

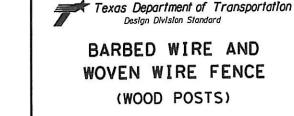
4" dia. x 6' - 6" long

Vertical Stays

- 2. Latches for Type 1 and Type 2 gates shall be good commercial quality and design latches of the spring, fork or chain type. All latches shall be suitable for the gate and shall be approved by the Engineer.
- 3. Hinges for Type 2 gates shall be commercial design approved by the Engineer suitable for post and gate.
- 4. Concrete shall be of the design and consistency approved by the Engineer and shall contain not less than 4 sacks of cement per cubic yard. Concrete footings are to be crowned at the top
- 5. If rock is encountered at a depth less than the embedded depth required, a 15" or larger diameter hole shall be drilled for the post and the post shall be set in concrete. If rock is encountered at a depth of 1'- 6" or more below the ground surface, the hole shall be drilled to the required depth. If rock is encountered at a depth less than 1'- 6" below the ground surface, the holes shall be drilled a minimum of 2' - 0" into the rock or to the depth whichever
- 6. Barbed Wire shall be in accordance with ASTM A 121 (Class 1) Design designation 12-2-4-1 4R or 12-2-5-1 4R, or as approved by the Engineer.

Woven Wire Fence (Type B) shall be in accordance with ASTM A 116 (Class 1) No. 12-1/2 Grade 60 (See Table 1 ASTM A 116) to the height and design shown on the plans, or as approved by the Engineer.

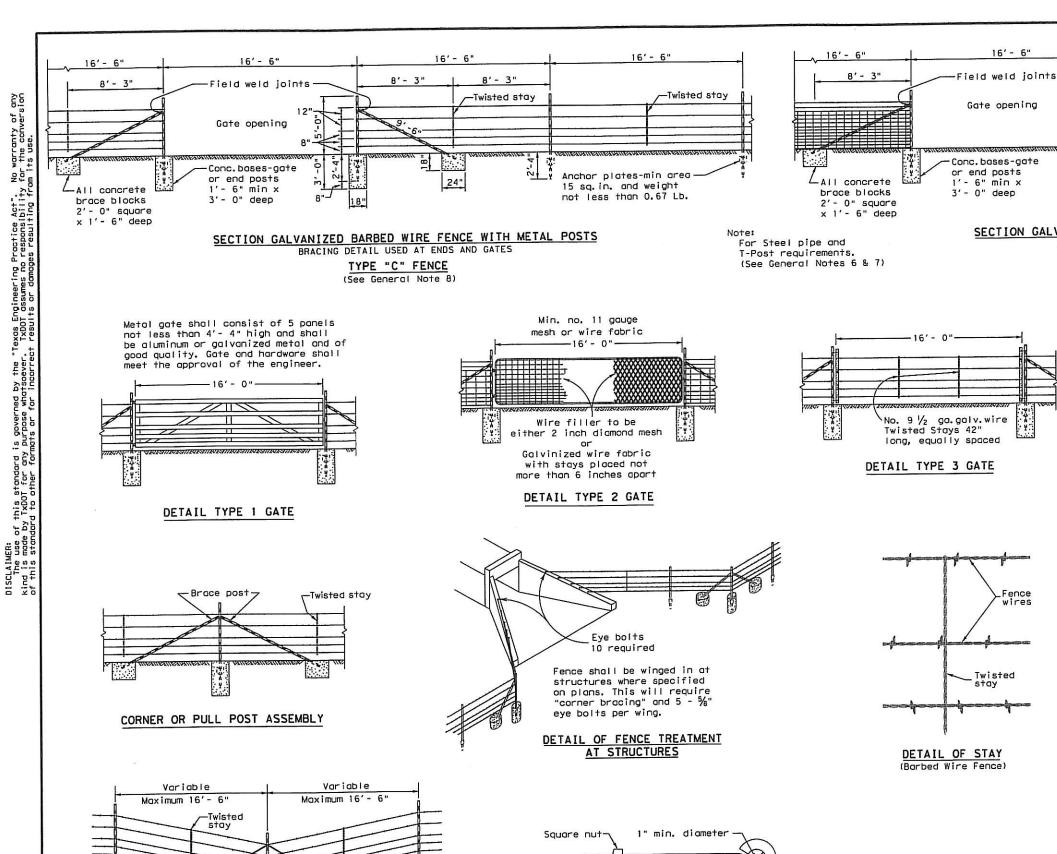
- 7. The location of gates and corner posts will be as indicated elsewhere on these plans.
- 8. Square wood posts may be used in lieu of round posts provided minimum equivalent size requirements, as shown are met. All wood posts shall be in accordance with Item 552, "Wire Fence."



WF (1)-10

FILE: wf110.dgn	DN: Tx	DOT	CK: AM	DW: BD/VP	CK:	
C TxDOT 1994	CONT	SECT	JOB	н	HIGHWAY	
REVISIONS			Maria Ja			
	DIST		COUNTY S		SHEET NO.	
					8	

DETAIL OF EYE BOLT



%" x 9" eye bolt-

5 required per wing

DETAIL OF EYE BOLT



8' - 3"

8'- 3"

16' - 6"

TYPE "D" FENCE (See General Note 8)

GENERAL NOTES

Anchor plates-min area-

not less than 0.67 Lb.

15 sq. in. and weight

16' - 6"

No.10 ga. galv. top

& bottom line wires

No. 12 1/2 ga.

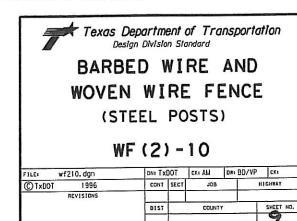
galv. line wires Y

& vertical stays

- 1. Any high point which interferes with the placing of wire mesh shall be excavated to provide a 2 inch clearance.
- Latches for Type 1 and Type 2 gates shall be good commercial quality and design latch of the spring, fork or chain type. All latches shall be suitable to the gate and shall be approved by the Engineer.
- 3. Hinges for Type 2 gates shall be a commercial design approved by the Engineer suitable for post and gate.
- 4. Concrete shall be of the design and consistency approved by the Engineer and shall contain not less than 4 sacks of cement per cubic yard. Concrete footings are to be crowned at the top to shed water.
- 5. Steel anchor plates shall be of a design and thickness sufficient to prevent turning of the post in firm soil.
- 6. Steel pipe end posts, corner and pull posts shall be a minimum of 2" Std. pipe (2.375" O.D., 0.154" wall thickness) with a 11/4" Std. pipe brace (1.660" O.D., 0.140" wall thickness), with a 2"x2"x1/4" angle, or other as approved by the Engineer. Fasteners for securing barbed wire or woven wire fence to metal posts shall be a minimum of 11 gauge galvanized steel wire. Tubular posts shall be fitted with water malleable iron caps.
- 7. If Steel pipe is used for posts and braces, use standard pipe in accordance with ASTM A 53, Class B or A 501. For T-Posts use steel that meets ASTM A 702. Metal line posts shall be not less than 6'-6" in length and shall weigh not less than (1.33 lbs./lin.ft.). These Items shall be in accordance with Item 552, "Wire Fence."
- 8. Barbed Wire shall be in accordance with ASTM A 121, Class 1 Design designation 12-2-4-1 4R or 12-2-5-1 4R, or as approved by the Engineer.

Woven Wire Fence (Type D) shall be in accordance with ASTM A 116, Class 1 No. 12-1/2 Grade 60 (See Table 1 ASTM A 116) to the height and design shown on the plans, or as approved by the Engineer.

9. The location of gates and corner posts will be as indicated elsewhere in these plans.



3' - 0"

Deadman not

less than

100 Lbs.

min.

-Undisturbed

DETAIL OF FENCE SAG

∠Double number 9 ½ ga.

twisted for tension

galv. wire braces