

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

ROADWAY DESIGN DIVISION SUITE 1200 JAMES K. POLK BUILDING 505 DEADERICK STREET NASHVILLE, TENNESSEE 37243-3848 (615) 741-2221

CLAY BRIGHT COMMISSIONER

BILL LEE GOVERNOR

INSTRUCTIONAL BULLETIN NO. 20-02

Regarding Various Revised and Voided Standard Drawings.

Effective May 15, 2020 letting (March 4, 2020 Turn-in), the following standard drawings have been revised and have been voided. Section 10 of the Roadway Design Guidelines has also been revised to incorporate these new standard drawings.

DRAWING	REVISION
NUMBER	DATE

DESCRIPTION

Revised Standard Drawings:

10-100.03	RD11 TYPICAL SE	ECTIONS AND DESIGN CRITERIA
RD11-TS-1	06-28-19	DESIGN STANDARDS FOR LOW-VOLUME ROADS
10-104.05	FENCES AND RIG	HT-OF-WAY MARKERS
S-F-1	06-28-19	HIGH VISIBILITY FENCE
S-F-10	06-28-19	STANDARD RIGHT-OF-WAY STOCK FENCE
S-F-10A	06-28-19	STANDARD RIGHT-OF-WAY STOCK FENCE WITH TIMBER POSTS
S-F-10B	06-28-19	STANDARD RIGHT-OF-WAY CHAIN LINK FENCE
S-F-10C	06-28-19	RIGHT-OF-WAY FENCE AT BRIDGE AND BOX CULVERTS
S-F-10D	06-28-19	RIGHT-OF-WAY FENCE LOCATIONS AT INTERCHANGES
S-FG-11	06-28-19	STANDARD STOCK FENCE GATE

DRAWING NUMBER	REVISION DATE	DESCRIPTION
S-FG-20	06-28-19	EXAMPLES OF WATER GATES AND WATER CROSSINGS
S-RP-2	06-28-19	STANDARD CONCRETE RIGHT-OF-WAY MARKERS
10-108.02	SLOPE DEVICES	
EC-STR-3C	06-28-19	SILT FENCE WITH WIRE BACKING

EC-STR-3D 06-28-19 ENHANCED SILT FENCE

These standard drawings have been revised and have been added to the Roadway Design Guidelines, Chapter 10, Index of Standard Drawings and are available online.

Voided Standard Drawings:

The following standard drawings where voided on December 31, 2019.

D-PE-7	STANDARD STRAIGHT ENDWALLS FLATBASE CONCRETE PIPES
D-PE-7A	STANDARD WINGWALLS FLATBASE CONCRETE PIPES
D-CBB-12C	TYPE 'B' CAST IRON FRAME, GRATE & 4" MOUNTABLE INLET DETAILS FOR NOS. 28 & 29 TYPE CATCH BASINS

Standard Drawings:

https://www.tn.gov/content/tn/tdot/roadway-design/standard-drawings-library/standard-roadway-drawings.html

Chapter 10 - Index of Standard Drawings is available online at this location:

https://www.tn.gov/content/dam/tn/tdot/roadway-design/documents/design_guidelines/DG-C10.pdf

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Jennifer Lloyd, PE Civil Engineering Director Roadway Design Division

KJL:ARH:RBB:LLP December 12, 2019

TABLE I MINIM	UM DESIGN S	PEEDS FOR L	.OW-VOLUME	ROADS
	DESIGN	SPEED (MPH) FOR SPE	CIFIED DESIGN ADT (VI	EH/DAY)
TTPE OF TERRAIN	UNDER 50	50 TO 250	250 TO 400	400 TO 2,000
LEVEL	30	30	40	50
ROLLING	20J	30	30	40
MOUNTAINOUS	20J	20J	20J	30

TABLE II DESIGN STANDARDS FOR LOW-VOLUME LOCAL ROADS AND STREETS (ADT < 400) DESIGN SPEED (MPH) 15 20 25 30 35 40

								00	00	
	RURAL LOCAL ROADS			18	18	18	18	18	18	
RECREATIONAL AND SCENIC I			ROADS		18	18	18	18	18	20
ADDOACU	PROPOSED INDUSTRIAL/COMMERCIAL AC		CCESS		20	20	22	24	24	24
ROADWAY (EEET)	LOW DEVE	URBAN LOCAL ROADS LOPMENT DENSITY (2.0 OR LESS	S DWELLINGS	/ACRE)	20	20	20	20	20	20
(1221)	MEDIUM D	URBAN LOCAL ROADS DEVELOPMENT DENSITY (2.1 TO 6	DWELLINGS	/ACRE)	28	28	28	28	28	28
		· · · · · · · · · · · · · · · · · · ·	NC	-2%	50	107	198	333	510	762
				0%	47	99	181	300	454	667
			RC	2%	44	92	167	273	408	593
URVE RADIUS				3%	43	89	160	261	389	561
(FEET)	ALL			4%	42	86	154	250	371	533
BY		(G)		5%	41	83	149	240	355	508
PERELEVATION				6%	39	81	144	231	340	485
RATE				7%	38	78	139	222	327	464
				8%	38	76	134	214	314	444
		ADT 0 TO 100 (VEH/DAY	́)		65	90	115	135	170	215
STANCE (FEET)		ADT 101 TO 400 (VEH/DA	Y)		65	95	125	165	205	250
	CREST	ADT 0 TO 100 (VEH/DAY)		2	4	7	9	14	22
MINIMUM " K " CU	CURVE	ADT 101 TO 400 (VEH/DAY)			2	5	8	13	20	29
VALUES		SAG VERTICAL CURVE			10	17	26	37	49	64
		LEVEL	-		9	8	7	7	7	7
	TYPE OF	TYPE OF ROLLING		12	11	11	10	10	9	
	MOUNTAINOUS			17	16	15	14	13	12	
I		FOR SUPERELEVATION	SEE STANDA	RD DRAWIN	GS RD11-SE	SERIES (G)	-		-	

DESIGN NOTES

(A) THE SLOPE OF THE SHOULDER AND THE ROADWAY PAVEMENT SHALL BE THE SAME IN ALL SITUATIONS. (B) MAXIMUM 2(H):1(V) OR AS RECOMMENDED BY THE GEOTECHNICAL OFFICE. WHEN A 2(H):1(V) SLOPE IS USED, AND THE FILL HEIGHT EXCEEDS SIX FT GUARDRAIL SHOULD BE CONSIDERED. WHERE RIGHT-OF-WAY IS NOT AN ISSUE, STANDARD DRAWING RD11-S-11 (CASE II) SLOPES MAY BE USED. (c) SEE STANDARD DRAWING RD11-S-11A FOR ROUNDING OF ROADSIDE DITCH SLOPES. (D) SEE STANDARD DRAWING S-PL-6 FOR TYPICAL GUARDRAIL PLACEMENT. (E) SITE-SPECIFIC CONDITIONS AND ENGINEERING JUDGMENT OF THE DESIGNER SHOULD BE THE TWO PRIMARY DETERMINANTS OF THE APPROPRIATE CLEAR ZONE WIDTH FOR LOW-VOLUME LOCAL ROADS. AT LOCATIONS WHERE A CLEAR ZONE OF 6 FEET OR MORE IN WIDTH CAN BE PROVIDED AT LOW COST AND WITH MINIMUM SOCIAL/ENVIRONMENTAL IMPACT, SUCH CLEAR ZONE SHOULD BE CONSIDERED. WHERE PROVISION OF A CLEAR ZONE IS NOT PRACTICAL. NONE IS REQUIRED. F) FOR BRIDGE PROJECTS WHERE THE TOTAL APPROACH ROADWAY WIDTH (TRAVELED WAY PLUS SHOULDERS) IS SURFACED, THAT SURFACE WIDTH SHOULD BE CARRIED ACROSS THE STRUCTURE. THE WIDTH OF THE BRIDGE CANNOT BE LESS THAN THE PROPOSED ROADWAY WIDTH SELECTED FROM TABLE II. THE TOTAL APPROACH ROADWAY WIDTH CANNOT BE LESS THAN THE EXISTING ROADWAY WIDTH, AS DETERMINED ABOVE. HOWEVER, ON UNSURFACED RURAL ROADS, WITHOUT DEFINED TRAVELED WAY OR DEFINED SHOULDERS, THE WIDTH DETERMINED FROM TABLE 2 WILL SUFFICE. $({
m G})$ FOR THE DESIGN OF SUPERELEVATION TRANSITIONS, USE THE SUPERELEVATION DESIGN SPEED LISTED DIRECTLY ABOVE THE SELECTED MINIMUM HORIZONTAL CURVE RADIUS. FOR EXISTING ROADS WHERE SUPERELEVATION IS NOT PRESENT AND NO SITE-SPECIFIC SAFETY PROBLEM IS KNOWN SUPERELEVATION MAY NOT BE NECESSARY. REMOVAL OF NORMAL CROWN BY SUPERELEVATING THE ENTIRE ROADWAY AT THE NORMAL CROSS SLOPE MAY BE USED UNLESS SUPERELEVATION IS NEEDED AS DETERMINED BY THE DESIGNER. THE DESIGNER SHOULD ASSESS THE PROJECT SITE AND USE ENGINEERING JUDGEMENT WHEN MAKING THIS DETERMINATION. FOR UNPAVED ROADS, REMOVAL OF NORMAL CROWN BY SUPERELEVATING THE ENTIRE ROADWAY AT THE NORMAL CROSS SLOPE MAY BE USED OR SUPERELEVATION MAY BE ELIMINATED. (H) THESE STRUCTURES SHOULD BE ANALYZED INDIVIDUALLY, TAKING INTO CONSIDERATION THE CLEAR WIDTH PROVIDED, TRAFFIC VOLUMES, REMAINING LIFE OF THE STRUCTURE, PEDESTRIAN VOLUMES, SNOW STORAGE, DESIGN SPEED, ACCIDENT RECORD, AND OTHER PERTINENT FACTORS I) CURB-TO-CURB OR BETWEEN RAILS, WHICHEVER IS THE LESSER. m (J) design speed should be selected based on actual or anticipated operating speed and conditions on the road being designed. (K) DESIGN LOADING: ALL NEW AND REHABILITATED BRIDGES SHALL BE DESIGNED FOR HL-93 LOADING L) FOR NEW CONSTRUCTION OR RECONSTRUCTION PROJECTS: THE MINIMUM CLEAR WIDTH FOR NEW BRIDGES SHALL BE EQUAL TO THE

FULL WIDTH OF THE APPROACH ROADWAY (CURB-TO-CURB OR FULL SHOULDER WIDTH AS APPLICABLE). WIDTH SHOULD BE AVAILABLE

PROPOSED APPROACH ROADWAY ↔ PROPOSED TRAVELED WAY (E) CLEAR ZONE 4' MIN 0' - 2' 9' - 12' 9' - 12' TRAFFIC LANE TRAFFIC LANE SHOULDEF SHOULDER FINISHED GRADE EXISTING GROUND 0.02 F/F -0.02 F/F -0.02 F/F -----0.02 F/F -0.02 F/F TANGENT SECTION





BRIDGE DESIGN - MINIMUM CLEAR WIDTHS AND DESIG

DESIGN ADT (VEH/DAY)	MINIMUM CLEAR (A) WIDTH (FEET) (]	DESIGN LOADING (STRUCTURAL CAPACITY) FOR NEW AND RECONSTRUCTED BRIDGES	F
0 TO 100	18	HL-93	
101 TO 400	20	HL-93	

GENERAL NOTES (1) THIS STANDARD DRAWING IS INTENDED TO BE USED FOR THE DESIGN OF LOW-VOLUME ROADWAYS CLASSIFIED AS LOCAL ROADS. FOR ADDITIONAL GUIDANCE NOT COVERED ON THIS SHEET, REFERENCE SHOULD BE MADE TO AASHTO "GUIDELINES FOR GEOMETRIC DESIGN OF LOW-VOLUME ROADS," (2019). (2) PROJECTS WITH DESIGN SPEEDS GREATER THAN 40 MPH SHALL USE STANDARD DRAWING RD11-TS-1A. (3) FOR INTERSECTION SIGHT DISTANCE, SEE SECTION 4.6 OF THE AASHTO "GUIDELINES FOR GEOMETRIC DESIGN OF LOW-VOLUME ROADS," (2019). FOR HIGHER ADT'S REFER TO THE RD11-SD-SERIES STANDARD DRAWINGS FOR ADDITIONAL GUIDANCE. $(4\,)~$ IF NO ABOVE GROUND UTILITIES ARE INVOLVED, MINIMUM RIGHT-OF-WAY SHOULD BE THE TRAVELED WAY PLUS CLEAR ZONE. (5) IF ABOVE GROUND UTILITIES ARE INVOLVED, MINIMUM RIGHT-OF-WAY SHOULD BE SUFFICIENT TO ACCOMMODATE THE UTILITIES OUTSIDE THE CLEAR ZONE. 6 DESIGNER SHOULD CONSIDER ANY KNOWN SITE-SPECIFIC SAFETY PROBLEMS AND TYPICAL DAILY USE OF THE ROADWAY WHEN DETERMINING ROADWAY GEOMETRICS ON A CASE-BY-CASE BASIS. SITE-SPECIFIC SAFETY PROBLEMS MAY BE INDICATED BY CRASH DATA, SKID MARKS, ROADSIDE DAMAGE, SPEED DATA, OR CONCERNS RAISED BY LOCAL OFFICIALS, POLICE, OR LOCAL RESIDENTS. (7)~ FOR EXISTING ROADS, CROSS-SECTION WIDTHS NEED NOT BE MODIFIED, EXCEPT IN THOSE CASES WHERE THERE IS KNOWN EVIDENCE OF A SITE-SPECIFIC SAFETY PROBLEM AS LONG AS THE MINIMUM CRITERIA, AS SHOWN IN TABLE I, IS MET. (8) FOR THIS STANDARD THE FOLLOWING ARE THE POSSIBLE ROADWAY USES: a. RURAL LOCAL ROADS SERVE A DUAL FUNCTION OF PROVIDING ACCESS TO ABUTTING PROPERTIES AS WELL AS PROVIDING THROUGH OR CONNECTING SERVICE BETWEEN OTHER LOCAL ROADS. b. RECREATIONAL AND SCENIC ROADS SERVE SPECIALIZED LAND USES, INCLUDING PARKS, TOURIST ATTRACTIONS, AND RECREATION FACILITIES, SUCH AS CAMPSITES OR BOAT-LAUNCH RAMPS. WHEN AVAILABLE. PEAK-SEASON ADT SHOULD BE USED FOR DESIGN c. INDUSTRIAL OR COMMERCIAL ACCESS ROADS SERVE DEVELOPMENTS THAT MAY GENERATE A SIGNIFICANT PROPORTION OF TRUCK OR OTHER HEAVY VEHICLE TRAFFIC. d. URBAN LOCAL ROADWAYS SERVE A DUAL FUNCTION OF PROVIDING ACCESS TO ABUTTING PROPERTIES AS WELL AS PROVIDING THROUGH OR CONNECTING SERVICE BETWEEN OTHER LOCAL ROADS. (9) ROADWAY SURFACE TYPE SHOULD MATCH EXISTING SURFACE OR SHALL BE DETERMINED BY LOCAL GUIDELINES. WHEN EXISTING SURFACE IS ASPHALT, SEE DESIGN GUIDELINES FOR PAVEMENT DESIGN GUIDANCE. (10) THE MINIMUM DESIRED SHOULDER WIDTH IS 2' FOR EACH SIDE OF ALL PROPOSED ROADWAYS.

NOT TO SCALE LLP

FOR FARM EQUIPMENT USE AS REQUIRED.





0' - 2'





NLOADINGS 🛞 L
DESIGN LOADING (STRUCTURAL CAPACITY) OR EXISTING BRIDGES TO REMAIN IN PLACE
H-15
H-15





LLP

- REV. 05-24-12: ADDED HIGH VISIBILITY FENCE LEGEND.
- REV. 06-28-2019: ADDED GENERAL NOTE NO. () REDREW SHEET.







NOT TO SCALE

LLP

REV. 6-3-69: ADDED NOTE REGARDING ALTERNATE TYPE TRUSS ROD AND FITTINGS.

REV. 7-1-72: CHANGED DEPARTMENT NAME.

REV. 12-7-75; ADDED ITEM NO'S FOR END BRACED LINE AND CORNER POSTS

REV. 1-1-76: CHANGED DRAWING NUMBER FROM RD-F-10(68), (SHEET 1) TO S-F-10.

REV. 11-9-76: REMOVED CHAIN LINK FENCE DETAILS AND SPECIES FROM THIS SHEET.

REV. 2-25-77: DELETED BARED WIRE AT BOTT EM OF FENCE, CHANGED POST SPACING ON BRACED LINE POSTS AND CORNER POSTS FROM 10' TO 8'

REV. 7-17-81: CHANGED ITEM NO. TO AGREE WITH NEW SPECIFICATION BOOK

REV. 1-24-08: REDREW SHEET AND CHANGED LENGTH OF ALL FENCE POSTS MOVE STOCK FENCE AND CHAIN LINK FENCE TO S-F-10C.

- REV. 6-1-09: REMOVED TIE WIRES BETWEEN LINE POSTS. MODIFIED GENERAL NOTE (A). ADDED GENERAL NOTE (B). REVISED LINE POST SPACING
- REV. 11-15-17: ADDED LINE POST NOTE. CHANGED R.O.W FENCE LINE STYLE. CHANGED FONT. REWORDED THE BRACED LINE POST NOTE REGARDING MAXIMUM INTERVALS.
- REV. 06-28-2019: REDREW SHEET.





Way



REV. 7-1-72: CHANGED DEPARTMENT NAME.

REV. 12-7-75: ADDED ITEM NO'S FOR END BRACED LINE AND CORNER POST.

REV. 1-1-76: CHANGED DRAWING NUMBER FROM RD-F-10(68), (SHEET 2) TO S-F-10a.

REV. 2-25-77: DELETED BARED WIRE AT BOTTEM OF FENCE, CHANGED POST SPACING ON BRACED LINE POSTS AND CORNER POSTS FROM 10' TO 8'. ADDED NOTES REGARDING FENCING OVER DITCHES REGARDING FENCING TERRAIN.

REV. 7-17-81: CHANGED ITEM NO. TO AGREE WITH NEW SPECIFICATION BOOK.

- REV. 1-24-08: REDREW SHEET AND CHANGED LENGTH OF ALL FENCE POSTS. ADDED NOTE .
- REV. 6-1-09: REMOVED TIE WIRES BETWEEN LINE POSTS. MODIFIED GENERAL NOTE (A). ADDED GENERAL NOTE (B). REVISED LINE POST SPACING.
- REV. 11-15-17: CHANGED FONT. CORRECTED MISSPELLINGS. CORRECTED GENERAL NOTE LETTERING. CORRECTED PAY ITEM DESCRIPTION. REWORDED THE BRACED LINE POST NOTE REGARDING MAXIMUM INTERVALS.

REV. 06-28-2019: REDREW SHEET.

AL NOTES]
EETING THE REQUIREMENTS OF ASTM A-116 6-11, CLASS III COATING OR GALVANIZED WEN WIRE MEETING THE REQUIREMENTS OF IGN, CLASS III COATING EXCEPT THAT LL BE 10½ GAUGE AND THE YIELD STRENGTH RM DESIGN 1047-6-11.	
DF 2 NO. 12½ GAUGE TWISTED STEEL LINE BARBS SPACED NOT MORE THAN 5 IN. ZED OR ALUMINUM COATED. THE GALVANIZED VTS OF ASTM A-121, CHAIN LINK FENCE VTRACTOR, HIGH TENSILE STREENGTH WIRE TED ABOVE, MAY BE USED. IF THE HIGH TENSILE STRENGTH WIRE, IT SHALL I A-121, CHAIN LINK FENCE GRADE FOR THE	
ND BRACING OR SQUARE POST AND SQUARE	
IZED STAPLES FOR TIMBER POSTS.	
ALIGNMENT STAPLE EVERY LINE WIRE. WIRE IN THE TOP HALF AND ALTERNATE E STAPLING DETAILS.	
OR DETAILS OF FENCING OVER DITCHES AND	MINOR REVISION – FHWA APPROVAL NOT REQUIRED
JB-SECTION 707.05 REGARDING FURNISHING LINE POSTS WHERE TERRAIN IS IRREGULAR.	
SES AND CULVERTS.	STATE OF TENNESSEE
R STOCK FENCE, IT IS TO BE FIVE STRAND OF BARBED WIRE IS TO BE PLACED OM STRAND OF BARBED WIRE IS TO BE HE GROUND. THE NEXT TO THE BOTTOM	STANDARD DRAWING DEPARTMENT OF TRANSPORTATIO
PLACED NOT LESS THAN THAT 15" ABOVE DE UNDER ITEM NO.	STANDARD
WIRE FENCE, L.F.	
M NOS.:	
L.F. DRNER POST ASSEMBLY (STOCK FENCE), EACH	TIMBER POSTS
	01-01-1968 S-F-10A





Way

of



OPTIONAL "C" LINE POST

SECTION: "C" GALVANIZED ROLLED AT 2.34 LBS./FT. ASTM A570, GRADE 45, 1.875" x 1.625". REV. 2-25-77: DELETED NOTE REGARDING GRADING AND ADDED NOTE REGARDING CLEARING AND GRUBBING, ADDING OPTIONAL "C" AND "H" LINE POST, DELETED "2" BATTER AND ADDED "CROWN" FOR TOP OF CONC. FOOTING, ADDED TENSION WIRE AT BOTTOM OF FENCE.

REV. 7-17-81: CHANGE ITEM NO. TO AGREE WITH NEW SPECIFICATION BOOK.

- REV. 1-19-99: CHANGED VARIOUS SPECIFICATIONS AND GENERAL NOTES.
- REV. 6-30-00: MOVED TOP HORIZONTAL BRACE PIECE TO A POINT 6" BELOW TOP OF CHAIN LINK FABRIC.
- REV. 5-27-01: CHANGED PAY ITEMS IN GENERAL NOTE G.
- REV. 5-14-10: ADDED GATE ITEM NUMBERS.
- REV. 11-15-17: CHANGED FONT. CORRECTED MISSPELLINGS. LABELED ELEVATION VIEW PER POST TYPE. ADDED DIMENSIONS TO HEIGHT OF FABRIC.

REV. 06-28-2019: REDREW SHEET.

TENSION WIRE NOTES

THE TENSION WIRE SHALL BE NO. 7 GAUGE COILED SPRING WIRE, TENSIONED ALONG THE TOP AND BOTTOM OF THE FABRIC AND SHALL BE COATED SIMILARLY TO THE RESPECTIVE WIRE FABRIC BEING USED.

TENSION WIRES AT CORNER AND BRACE POSTS SHALL BE TIGHTENED TO NEAR OPTIMUM STRENGTH OF THE COMPONENTS PRIOR TO APPLYING TENSION TO THE TOP WIRE AND THE FENCE.

GENERAL NOTES

FENCE SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 707 OF STANDARD SPECIFICATIONS.

MATERIALS SPECIFICATIONS SHALL COMPLY WITH SECTION 909, AND ALL REVISIONS THERETO.

CONCRETE FOR BRACE, CORNER, AND GATE POSTS SHALL BE CLASS "A" IN ACCORDANCE WITH SECTION 604 OF THE STANDARD SPECIFICATIONS AND OF SIZE AND DIMENSION

CLEARING AND GRUBBING PRIOR TO SETTING FENCE SHALL BE DONE IN ACCORDANCE WITH STANDARD SPECIFICATIONS SECTION 707.

E POLYVINYL CHORIDE FABRIC IN ACCORDANCE WITH AASHTO M181, TYPE IV, CLASS B, MAY BE SUPPLIED ONLY WHEN CALLED FOR ELSEWHERE ON THE PLANS.

ACCEPTED QUANTITIES OF FENCE WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LINEAR FOOT, COMPLETE IN PLACE, FOR THE KIND, SHAPES, AND DIMENSIONS OF FENCE STIPULATED OR SHOWN ON PLANS.

 PAYMENT FOR ALL COMPONENTS WILL BE MADE UNDER ITEM NUMBERS:

CHAIN LINK FENCE (6 FOOT), L.F.

END & CORNER POST ASSEMBLY(CHAIN-LINK FENCE 4'), EACH

L.F.

 /U/-U1.12 END & CORNER POST ASSEMBLY(CHAIN-LINK FENCE 6'), EACH 707-01.03 GATE - CHAIN-LINK FENCE-4 FOOT (DESCRIPTION), EACH 707-01.04 GATE - CHAIN-LINK FENCE-4 FOOT (DESCRIPTION), EACH 707-01.13 GATE - CHAIN-LINK FENCE-6 FOOT (DESCRIPTION), EACH 707-01.14 GATE - CHAIN-LINK FENCE-6 FOOT (DESCRIPTION), EACH 707-01.52

GATE - CHAIN-LINK FENCE (_ FOOT - DESCRIPTION), EACH 707-01.53 GATE - CHAIN-LINK FENCE (_ FOOT - DESCRIPTION), EACH (H) SEE STD. DWG. S-FG-11 FOR GATE DETAILS. MINOR REVISION – FHWA APPROVAL NOT REQUIRED STATE OF TENNESSEE STANDARD DRAWING DEPARTMENT OF TRANSPORTATION

STANDARD RIGHT-OF-WAY CHAIN LINK FENCE

S-F-10B

FENCING TERMINALS AT BRIDGE ABUTMENTS

Way

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FENCE UP AND OVER DRAINAGE STRUCTURES WITHOUT WINGWALLS



REV. 5-14-10: REMOVED ITEM NUMBERS

■ REV. 11-15-17: CHANGED FONT. CORRECTED PROPOSED FENCE LINE TYPE IN THE PLAN VIEW. ADDED GENERAL NOTE (). CHANGED DISTANCE BETWEEN R.O.W. LINE AND R.O.W. FENCE FROM ®" TO 1' TO MATCH STANDARD SPECIFICATIONS.

REV. 06-28-2019: REDREW SHEET.







FENCING TERMINALS AT RURAL INTERCHANGES

APPLIES TO BRIDGE OVER CROSSROAD AND CROSSROAD OVER INTERSTATE (BRIDGE OVER CROSSROAD SHOWN)

	GENEI
FEN	ICING TERMINALS AT URBAN INTER
A	RIGHT-OF-WAY FENCE SHALL CON ON STANDARD DRAWING NO. S-F-1
B	THE INDICATED DISTANCE SHALL E SIGHT DISTANCE FOR THE TRAFFIC
©	END SECTIONS OF THE RIGHT-OF- MIN. 50'.
D	RIGHT-OF-WAY FENCE SHALL BE P
FEN	ICING TERMINALS AT RURAL INTER
Ē	RIGHT-OF-WAY FENCE SHALL CON STANDARD DRAWING NO. S-F-10 &
Ē	RIGHT- OF- WAY FENCE ALONG TH FEET BEYOND THE END OF THE AC THE TAPER MOST REMOTE FROM BOTH SIDES OF THE ROADWAY. IN OF THE RAMP RETURN WILL BE US
G	FOR INTERCHANGE QUADRANTS H

POINT AS NOTED.

NOT TO SCALE

- REV. 11-15-17: CHANGED FONT. CORRECTED R.O.W. FENCE LINE TYPE. CHANGED DISTANCE BETWEEN R.O.W. LINE AND R.O.W. FENCE FROM 6" TO 1' TO MATCH STANDARD SPECIFICATIONS.
- REV. 06-28-2019: COMBINED GENERAL NOTES AND REDREW SHEET.

RAL NOTES

RCHANGES

FORM TO NOTES AND DETAILS SPECIFIED 10B.

BE SUFFICIENT TO PROVIDE SATISFACTORY IC FROM THE RAMP.

-WAY FENCE SECTIONS SHALL BE OVERLAPPED

PLACED 1' INSIDE THE RIGHT-OF-WAY LINE.

RCHANGES

FORM TO NOTES AND DETAILS SPECIFIED ON S-F-10A.

HE CROSSROAD WILL EXTEND A MINIMUM 300 CCELERATION OR DECELERATION TAPER, WITH THE PROJECT ESTABLISHING THE END FOR I THE ABSENCE OF A TAPER THE RADIUS POINT SED WITH THE ABOVE CRITERIA.

HAVING NO RAMP, THE RIGHT-OF-WAY FENCE WILL EXTEND ALONG THE CROSSROAD TO A POINT OPPOSITE THE LIMIT OF LIMITED ACCESS RIGHT-OF-WAY ESTABLISHED BY THE RAMP TAPER OR RADIUS





STOCK FENCE DRIVE GATE (12' X 4')

STOCK FENCE WALK GATE (4' X 4')

	GENERAL NOTES
A	DESCRIPTION
	STOCK FENCE DRIVE GATE SHALL BE A TUBULAR STEEL FRAME 4 FEET HIGH AND OF SPECIFIED LENGTH WITH WIRE FABRIG WITH TWO STRANDS OF BARBED WIRE ABOVE THE FRAME AND ONE STRAND OF BARBED WIRE BELOW THE FRAME, AND SH INDICATED BELOW.
	STOCK FENCE WALK GATE SHALL BE A TUBULAR STEEL FRAME 4 FEET HIGH AND 4 FEET LONG WITH WIRE FABRIC FILLER V CONSTRUCTED OF THE MATERIALS INDICATED BELOW.
B	MATERIALS
	DRIVE GATE: THE GATE SHALL CONSIST OF 1 ⁵ / ₈ " O.D. HIGH CARBON STEEL TUBING FASTENED AT EACH CORNER WITH MALL BOLTED TO THE TUBULAR FRAME. THE GATE FRAME SHALL BE BRACED VERTICALLY AT THE CENTER WITH TWO 1" X 1" AN/ IRONS BOLTED TOGETHER, AND SHALL BE BRACED DIAGONALLY WITH A NO. 9 GALVANIZED WIRE BRACE ATTACHED IN A M/ MORE THAN 12 FEET IN LENGTH SHALL HAVE TWO EQUALLY SPACED VERTICAL BRACES. THE END MEMBERS OF THE GATE CAPS.
	WALK GATE: THE WALK GATE SHALL CONSIST OF 1 ⁵ /8" O.D. HIGH CARBON STEEL TUBING FASTENED AT EACH CORNER WITH FITTINGS ATTACHED IN A MANNER SATISFACTORY TO THE ENGINEER. THE FRAME SHALL BE BRACED DIAGONALLY WITH A IN A MANNER TO PROVIDE ADJUSTMENT.
C	CONSTRUCTION
	GATES SHALL BE INSTALLED AT THE LOCATIONS INDICATED IN THE PLANS OR AS DIRECTED BY THE ENGINEER. THE GATE S FASTENED TO PROPERLY SPACED GATE POSTS, WHICH SHALL BE SET IN THE GROUND A FULL 34 INCHES. THE POSTS AND BETWEEN AND FASTENED TO PROPERLY SPACED GATE POSTS, WHICH SHALL BE SET IN THE GROUND A FULL 34 INCHES. T CONCRETE BASES WHICH SHALL BE AT LEAST 8 INCHES IN DIAMETER AND SHALL EXTEND 3 FEET OR MORE BELOW THE SU
	PAYMENT
	PAYMENT FOR ALL COMPONENTS WILL BE MADE UNDER ITEM NUMBERS:
	707-03.20DRIVE GATE (STOCK FENCE) (DESCRIPTION),EACH707-03.21WALK GATE (STOCK FENCE) (DESCRIPTION),EACH

IC FILLER WITHIN THE GATE FRAME, AND HALL BE CONSTRUCTED OF THE MATERIALS WITHIN THE GATE FRAME, AND SHALL BE LEABLE IRON OR PRESSED STEEL FITTINGS NGLE IRONS OR TWO $\frac{3}{4}$ " CHANNEL MANNER TO PROVIDE ADJUSTMENT. GATES FRAME SHALL BE PROVIDED WITH METAL H MALLEABLE IRON OR PRESSED STEEL NO. 9 GALVANIZED WIRE BRACE ATTACHED SHALL BE INSTALLED BETWEEN AND BRACES SHALL BE SET IN CONCRETE BASES THE POSTS AND BRACES SHALL BE SET IN URFACE OF THE GROUND.

REV. 7-1-72: CHANGED DEPARTMENT NAME.

REV. 1-1-76: CHANGED DRAWING NUMBER FROM RD-F-11(68) TO S-F-11. REV. 5-2-90: ADDED PAY ITEMS.

- REV. 1-24-08: REDREW SHEET AND CHANGED LENGTH OF ALL FENCE POSTS.
- REV. 5-14-10: MODIFIED ITEM NUMBER DESCRIPTIONS.
- REV. 11-15-17: CHANGED FONT. CLARIFIED PAYMENT FOR ALL COMPONENTS. CORRECTED MISSPELLINGS.
- REV. 06-28-2019: REDREW SHEET.

MINOR REVISION -- FHWA APPROVAL NOT REQUIRED STATE OF TENNESSEE STANDARD DRAWING DEPARTMENT OF TRANSPORTATION STANDARD STOCK FENCE GATE

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STEEL HANGER BOLTED TO FACE OF 2" x 4" WITH 2-³⁄₈" x 3" MACHINE BOLTS BEND HANGER FOR LOOSE FIT ON PIPE

TYPICAL LOCATION PLAN

			GENERAL	NOTES
A B	GATE FOR D	ITCH SHALL BE ERECTE	ED AT LOCATIONS INDIC	ATED IN THE P
	INCLUDING A REQUIRED F	ADDITIONAL PIPE, EXTR OR THE FACILITIES WH	A LENGTHS OF POSTS, ' ICH ARE NOT PROVIDED	WIRE, LUMBER FOR IN THE R
	707-04 707-05	WATER CROSSING, WATER GATE,	L.F. S.F.	
D	THESE INST WHICH WILL AS DIRECTE	ALLATION SCHEMES AR BE ENCOUNTERED. CO D BY THE ENGINEER.	E TYPICAL AND NOT TO NSTRUCTION MAY BE V	BE CONSTRUE ARIED AS REQI

CORNER POST CORNER POST END POST END POST FENCE IF REQ'D. / 🗯 BOX CULVERT CORNER OR END POST TYPE •XX SEE S-F-10C

REV. 7-1-72: CHANGED DEPARTMENT NAME.

REV. 1-1-76: CHANGED DRAWING NUMBER FROM RD-F-20(68), (SHEET 2) TO S-F-20.

REV. 5-2-90: ADDED PAY ITEMS.

- REV. 1-24-08: REDREW SHEET AND CHANGED LENGTH OF ALL FENCE POSTS.
- REV. 11-15-17: CHANGED FONT. CORRECTED R.O.W. FENCE LINE TYPE. CORRECTED MISSPELLINGS.
- REV. 06-28-2019: REDREW SHEET.

DIRECTED BY THE ENGINEER.

MINOR REVISION -- FHWA APPROVAL NOT REQUIRED

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REV. 7-2-72: CHANGED DEPARTMENT NAME.

REV. 1-1-76: CHANGED DRAWING NUMBER FROM RW-M-2a(68) TO S-RP-2

REV. 4-18-90: REDREW SHEET AND CHANGED SHEET NAME. THE DESIGNATION "POSTS" HAS BEEN CHANGED TO "MARKERS". MODIFIED GENERAL NOTES.

- REV. 5-27-96: CHANGED DIMENSION OF DETAIL ON TYPE "B" AND "C" MARKERS.
- REV. 1-19-99: MODIFIED GENERAL NOTES AND ADDED PRECAST SPECIFICATIONS.
- REV. 2-8-16: REVISED GENERAL NOTES.
- REV. 06-28-2019: REDREW SHEET.

MINOR REVISION -- FHWA APPROVAL NOT REQUIRED

SILT FENCE WITH WIRE BACKING FABRIC SPECIFI				
FABRIC PROPERTY AND TEST METHODS	REQUIRED PI (MARV VAL			
GEOTEXTILE FABRIC TYPE	WOVEN MONO			
APPARENT OPENING SIZE (ASTM D4751)	# 70 TO # 100			
WATER FLUX (ASTM D4491)	≥ 18 GPM/FT			
TENSILE STRENGTH (ASTM D4632)	≥ 310 LB. (W 200 LB. (FI			
ULTRAVIOLET STABILITY (AFTER 500 HRS PER ASTM D4355)	≥ 90%			
BURST STRENGTH (ASTM D3786)	≥ 400 PSI			
PUNCTURE STRENGTH (ASTM D4833)	≥ 105 LB.			
TRAPEZOIDAL TEAR (ASTM D4533)	≥ 100 LB. (W. 60 LB. (FI			

		GENERAL NOTES
A	SILT FI USE SI NATUF	ENCE WITH WIRE BACKING IS USED TO INTERCEPT SMALL AMOUNTS OF SEDIMENT AND ILT FENCE WITH WIRE BACKING UP-GRADIENT TO, AND ALONG THE PERIMETER OF STRE RAL WATER RESOURCES LOCATED WITHIN OR ADJACENT TO THE PROJECT RIGHT-OF-W
₿	THE M MAXIM	AXIMUM DRAINAGE AREA SIZE FOR CONTINUOUS SILT FENCE WITH BACKING SHALL BE IUM SLOPE LENGTH BEHIND FENCE ON UP SLOPE SIDE SHALL BE 290 FEET (AS MEASURI
©	WHEN ALLOW	INSTALLED AT THE TOE OF A SLOPE SILT FENCE WITH WIRE BACKING SHOULD BE PLAC V SPACE FOR PONDING OF WATER, COLLECTION OF SEDIMENT, AND EASE OF MAINTENA
D	WHEN DETAII	TWO SECTIONS OF SILT FENCE WITH WIRE BACKING FABRIC ADJOIN EACH OTHER, THE LS ON STANDARD DRAWING EC-STR-3E.
Ē	MAINT SILT FI	ENANCE SHALL BE PREFORMED AS NEEDED; CAPTURED SOIL MATERIAL SHALL BE REM ENCE AND/OR WHEN EVIDENCE OF FILTER CLOGGING IS OBSERVED.
Ē	STEEL HOT-D ANCHO ATTAC	POSTS SHALL BE ROLLED FROM HIGH CARBON STEEL AND SHALL HAVE A MINIMUM WE IPPED GALVANIZED OR PAINTED WITH HIGH GRADE WEATHER RESISTANT STEEL PAINT. DR PLATE HAVING A MINIMUM AREA OF 14 SQUARE INCHES. POSTS SHALL BE STUDDED HMENT OF THE WIRE BACKING. POSTS AND ANCHOR PLATES SHALL CONFORM TO THE
G	STEEL FENCE	POSTS SHALL HAVE A PROJECTION FOR FASTENING WIRE TO THEM. WOVEN WIRE FEW POSTS WITH WIRE TIES. THE WIRE FASTENERS SHOULD BE EVENLY SPACED WITH AT L
θ	FABRIO MIDSE	C SHALL BE FASTENED SECURELY TO WOVEN WIRE FENCE BACKING WITH THE TIES SPACTION.
()	WOVE	N WIRE FENCE BACKING SHALL MEET THE REQUIREMENTS FOR ASTM A-116 FOR NO. 11
0	SILT FI SHOUL BACKII	ENCE WITH BACKING SHOULD BE PLACED ALONG OR NEAR THE GROUND CONTOURS. T .D BE ON A ZERO PERCENT (0%) GRADE, PLUS OR MINUS ONE HALF PERCENT (± 0.5%). NG SHOULD BE TURNED UP SLOPE FORMING A J-HOOK TO FILTER ANY CONCENTRATED
K	FOR TI FOLLO	RENCH-BASED INSTALLATIONS, SILT FENCING WITH WIRE BACKING SHALL BE INSTALLED WING ORDER:
	1	EXCAVATE TRENCH A MAXIMUM OF 4 INCHES WIDE AND 6 INCHES DEEP. THE TRENCH EXCAVATION TO REMOVE BULKY DEBRIS SUCH AS ROCKS, STICKS, AND SOIL CLODS FI
	2	DRIVE AND SET SUPPORT POSTS PER SPACING REQUIREMENTS GIVEN ON THE APPLIC
	3	ATTACH WOVEN WIRE FENCE BACKING TO POSTS AND FABRIC TO THE WIRE BACKING OF TIES SHALL BE INSTALLED ACCORDING TO NOTES (G) AND (H).
	4	INSTALL FABRIC IN TRENCH.
	5	BACKFILL TRENCH (OVER-FILL) WITH SOIL PLACED AROUND FABRIC.
	6	COMPACT SOIL BACKFILL WITH MECHANICAL EQUIPMENT. DO NOT DAMAGE THE FABR FABRIC SHALL BE REPLACED).
\mathbb{C}	ONLY : ON TH	SILT FENCE WITH WIRE BACKING FABRIC LISTED ON THE QUALIFIED PRODUCTS LIST MA E QUALIFIED PRODUCTS LIST AS AN APPROVED ALTERNATE MAY ALSO BE USED.

(M) SILT FENCE WITH WIRE BACKING SHALL BE PAID FOR UNDER THE FOLLOWING ITEM NUMBER:

209-08.02 TEMPORARY SILT FENCE (WITH BACKING), L.F.

- PAYMENT SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY FOR CONSTRUCTION, MAINTENANCE, AND REMOVAL OF THE SILT FENCE WITH WIRE BACKING.
- 🕅 SEDIMENT SHALL BE REMOVED FROM BEHIND THE SILT FENCE WITH WIRE BACKING WHEN IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE STRUCTURE AND PAID FOR UNDER ITEM NUMBER 209-05, SEDIMENT REMOVAL PER C.Y.
- ORANGE SAFETY CAPS FOR METAL POSTS SHALL BE REQUIRED TO MEET OSHA REGULATION 1926.701 ALL COST OF THE CAPS TO BE INCLUDED IN THE COST OF THE FENCE.

ICATIONS

HYSICAL PROPERTIES UES OF TEST DATA)

FILAMENT

STANDARD SIEVE

VARP DIRECTION) X

ARP DIRECTION) X LL DIRECTION)

REDUCE VELOCITY FROM SHEET FLOW ONLY. EAMS, WETLANDS, PONDS, SPRINGS, OR OTHER AY AND AT LARGE FILL SLOPES.

1 ACRE PER 150 LINEAR FEET OF FENCE LENGTH ED ALONG THE GROUND SURFACE).

ED 5 FEET TO 10 FEET AWAY FROM THE TOE TO ANCE AND REMOVAL.

Y SHALL BE JOINED ACCORDING TO THE

IOVED WHEN "BULGES" DEVELOP IN THE

IGHT OF 1.25 LB/FT. POSTS SHALL BE STEEL POSTS SHALL BE EQUIPPED WITH AN , EMBOSSED, OR PUNCHED TO AID IN THE REQUIREMENTS OF ASTM A702.

CE BACKING TO BE FASTENED SECURELY TO LEAST SIX PER POST.

ACED EVERY 24 INCHES ALONG TOP AND

FARM, DESIGN NO. 832-6-11, CLASS 3 COATING.

THE BOTTOM OF THE FENCE AT GROUND LINE THE END OF A ROW OF SILT FENCE WITH WIRE FLOW BEHIND FENCE.

D PER THE FOLLOWING STEPS AND IN THE

SHALL BE HAND-CLEANED FOLLOWING ROM THE TRENCH.

ABLE FENCE DETAIL.

USING WIRE TIES. SPACING AND DENSITY

IC DURING COMPACTION (DAMAGED

Y BE USED. ANY PRODUCTS LISTED

REV. 12-18-03: MODIFIED TABLE 2 AND GENERAL NOTE E.

- REV. 7-29-04: CHANGED VALUES IN TABLE 2 FROM MEAN TO MARV VALUES.
- REV. 4-15-06: MODIFIED FABRIC HEIGHT. ADDED NOTES ()) AND ()). REVISED TABLE TITLE. REORDERED GENERAL NOTES. REFORMATTED SHEET, REVISED NOTES. MISC. EDITS TO DRAWING.
- REV. 4-1-08: REMOVED TEMPORARY REFERENCE, REVISED NOTES, AND MISC. EDITS TO DRAWING.
- REV. 8-1-12: MINOR EDITS TO GENERAL NOTES.
- REV. 06-28-2019: ADDED NOTE . REDREW SHEET.

MINOR REVISION – FHWA APPROVAL NOT REQUIRED

ELEVATION VIEW

SECTIONAL VIEW

	URRENT/In Progress/10-108.00 Erosion Prevention and Sediment Control IP/180.02 Slope Devices IP/ECSTR31	
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			REV. 4-15-06: MODIFIED NOTE (). ADDED NOTE (). REVISED TABLE TITLE. REORDERED GENERAL NOTES. REFORMATTED SHEET, REVISED NOTES, MISC. EDITS TO DRAWING.			
		۹	REV. 4-1-08: REMOVED TEMPORARY REFERENCE, REVISED GENERAL NOTES, AND MISC. EDITS TO DRAWING.			
SILT FENCE WITH WIRE BACKING F		REV. 06-28-19: ADDED NOTE . REDREW SHEET.				
FABRIC PROPERTY AND TEST METHODS	REQUIRED PHYSICAL PROPERTIES (MARV VALUES OF TEST DATA)					
GEOTEXTILE FABRIC TYPE	WOVEN MONOFILAMENT					
APPARENT OPENING SIZE (ASTM D4751)	# 30 TO # 80 STANDARD SIEVE					
WATER FLUX (ASTM D4491)	≥ 18 GPM/FT ²					
TENSILE STRENGTH (ASTM D4632)	≥ 370 LB. (WARP DIRECTION) X 230 LB. (FILL DIRECTION)					
ULTRAVIOLET STABILITY (AFTER 500 HRSPER ASTM D4355)	≥ 90%					
BURST STRENGTH (ASTM D3786)	≥ 470 PSI					
PUNCTURE STRENGTH (ASTM D4833)	≥ 110 LB.					
TRAPEZOIDAL TEAR (ASTM D4533)	≥ 115 LB. (WARP DIRECTION) X 75 LB. (FILL DIRECTION)					
PERMEABILITY (ASTM D4491)	≥ 0.02 INCHES/SEC					
THICKNESS (ASTM D5199)	≤ 35 MILS					
		-				
CENERAL N	OTES					
GENERAL N	5123					
IS TO BE USED WHERE INTERCEPTION OF CONCENTRATED FLC S FOR USE OF ENHANCED SILT FENCE ARE GIVEN ON STANDARI ITURAL WATER RESOURCES (WETLANDS OR STREAMS).	DWS (e.g. SWALES, DITCHES, RUTS ALONG SLOPE) AF D DRAWINGS EC-STR-4 AND EC-STR-4A. DO NOT USE	RE ANTICIPATED. LIMITS ENHANCED SILT FENCE				
SHOULD NOT BE USED TO REPLACE SILT FENCE WITH WIRE BA	CKING.					
OF ENHANCED SILT FENCE FABRIC ADJOIN EACH OTHER THEY S	HALL BE JOINED ACCORDING TO THE DETAILS ON ST	D. DWG. NO. EC-STR-3E.				
E PERFORMED AS NEEDED; CAPTURED SOIL MATERIAL SHALL E LOGGING IS NOTED.	E REMOVED WHEN "BULGES" DEVELOP IN THE SILT F	FENCE AND/OR WHEN				
E ROLLED FROM HIGH CARBON STEEL AND SHALL HAVE A MINIM ADE WEATHER RESISTANT STEEL PAINT. STEEL POSTS SHALL I IS SHALL BE STUDDED, EMBOSSED, OR PUNCHED TO AID IN THE UIREMENTS OF ASTM A702.	UM WEIGHT OF 1.25 LB/FT. POSTS SHALL BE HOT-DIP BE EQUIPPED WITH AN ANCHOR PLATE HAVING A MIN ATTACHMENT OF THE WIRE BACKING, POSTS AND A	PED GALVANIZED OR IIMUM AREA OF 14 INCHOR PLATES SHALL				
AVE A PROJECTION FOR FASTENING WIRE TO THEM. WOVEN WI NERS SHOULD BE EVENLY SPACED WITH AT LEAST SIX PER POS	RE FENCE BACKING TO BE FASTENED SECURELY TO T.	FENCE POSTS WITH WIRE				
ACKING SHALL MEET THE REQUIREMENTS FOR ASTM A-116 FOR	NO. 11 FARM, DESIGN NO. 1047-6-11, CLASS 3 COATIN	۱G.				
BE FASTENED SECURELY TO WOVEN WIRE FENCE BACKING WITH	H TIES SPACED EVERY 24 INCHES ALONG TOP AND M	ID SECTION.				
STALLATIONS, ENHANCED SILT FENCING SHALL BE INSTALLED F	PER THE FOLLOWING STEPS AND IN THE FOLLOWING	ORDER:				
ICH A MAXIMUM OF 18 INCHES WIDE 14 INCHES DEEP. THE TREN 3 ROCKS, STICKS, AND SOIL CLODS FROM THE TRENCH.	CH SHALL BE HAND-CLEANED FOLLOWING EXCAVATI	ION TO REMOVE BULKY				
SUPPORT POSTS PER SPACING REQUIREMENTS GIVEN ON THE	APPLICABLE FENCE DETAIL.					
WIRE FENCE BACKING TO POSTS AND FABRIC TO THE WIRE BAC DRDING TO NOTES (F) AND (H).	CKING USING WIRE TIES. SPACING AND DENSITY OF	TIES SHALL BE				
IN TRENCH.						
CH (OVER-FILL) WITH SOIL PLACED AROUND FABRIC.			MINOR REVISION - FHWA			
BACKFILL WITH MECHANICAL EQUIPMENT. DO NOT DAMAGE THE	FABRIC DURING COMPACTION (DAMAGED FABRIC SH	HALL BE REPLACED).	APPROVAL NOT REQUIRED			
FENCE FABRIC LISTED ON THE QUALIFIED PRODUCTS LIST MAY I	BE USED. ANY PRODUCTS LISTED ON THE QUALIFIED	PRODUCTS LIST AS AN	STATE OF TENNESSEE			
SHALL BE PAID FOR UNDER THE FOLLOWING ITEM NUMBER:	STANDARD DRAWING					
RARY ENHANCED SILT FENCE, L.F.			DEPARTMENT OF TRANSPORTATION			
DE ALL MATERIALS AND LABOR NECESSARY FOR CONSTRUCTION		O SILT FENCE				
EMOVED FROM BEHIND THE ENHANCED SILT FENCE WHEN IT HA	ENHANCED SILT					
	FENCE					

- A ENHANCED SILT FENCE OF FLOW APPLICATIONS IN OR ADJACENT TO NAT
- B ENHANCED SILT FENCE
- © WHEN TWO SECTIONS C
- D MAINTENANCE SHALL BE EVIDENCE OF FILTER CL
- (E) STEEL POSTS SHALL BE PAINTED WITH HIGH GRA SQUARE INCHES. POST CONFORM TO THE REQU
- F STEEL POSTS SHALL HA TIES. THE WIRE FASTEN
- G WOVEN WIRE FENCE BA
- (H) FILTER FABRIC SHALL BI
- () FOR TRENCH-BASED INS
 - 1 EXCAVATE TREN DEBRIS SUCH AS
 - 2 DRIVE AND SET S
 - 3 ATTACH WOVEN INSTALLED ACCO
 - 4 INSTALL FABRIC
 - 5 BACKFILL TRENCH
 - 6 COMPACT SOIL B
- ① ONLY ENHANCED SILT F APPROVED ALTERNATE
- ₭ ENHANCED SILT FENCE

209-08.04 TEMPOR

PAYMENT SHALL INCLUE

SEDIMENT SHALL BE RE STRUCTURE AND PAID

M ORANGE SAFETY CAPS F ORANGE SAFETY CAPS FOR METAL POSTS SHALL BE REQUIRED TO MEE ALL COST OF THE CAPS TO BE INCLUDED IN THE COST OF THE FENCE. MEET OSHA REGULATION 1926.701.

EROSION CONTROL PLAN LEGEND:

REV. 12-18-03: REPLACED TABLE 3 AND MODIFIED GENERAL NOTES (B), (D), AND (D)

REV. 7-29-04: CHANGED VALUES IN TABLE 3 FROM MEAN TO MARV VALUES.

EC-STR-3D

12-18-2002