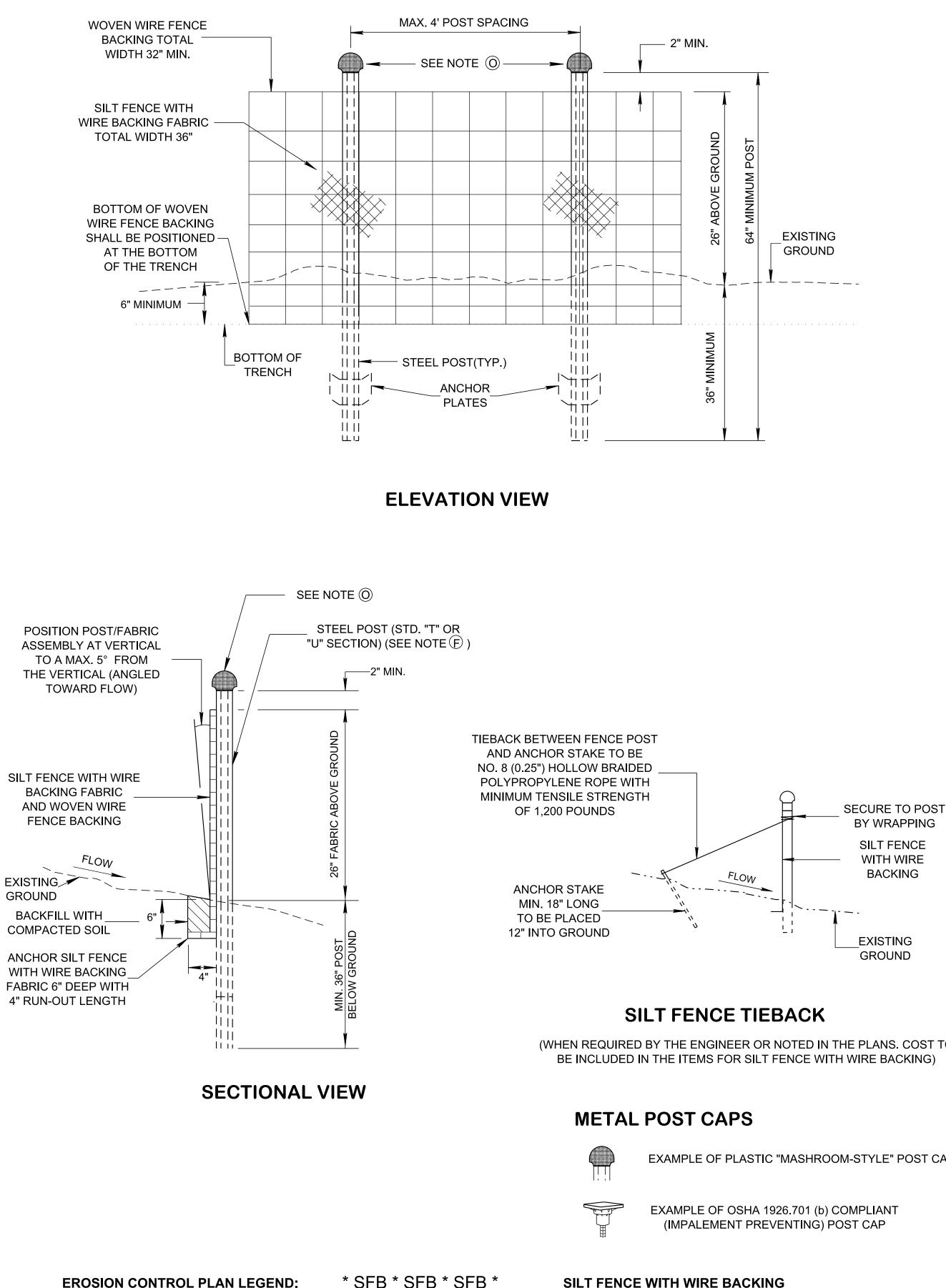
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SILT FENCE WITH WIRE BACKING FABRIC SPECIFICATIONS

FABRIC PROPERTY AND TEST METHODS	REQUIRED P (MARV VAI
GEOTEXTILE FABRIC TYPE	WOVEN MON
APPARENT OPENING SIZE (ASTM D4751)	# 70 TO # 100
WATER FLUX (ASTM D4491)	≥ 18 GPM/FT
TENSILE STRENGTH (ASTM D4632)	≥ 310 LB. (W 200 LB. (F
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. (V 60 LB. (F

SILT FENCE WITH WIRE BACKING GENERAL NOTES

A	SILT FENCE WITH WIRE BACKING IS USED TO INTERCEPT SMALL AMOUNTS OF SEDIMENT AND USE SILT FENCE WITH WIRE BACKING UP-GRADIENT TO, AND ALONG THE PERIMETER OF STR NATURAL WATER RESOURCES LOCATED WITHIN OR ADJACENT TO THE PROJECT RIGHT-OF-V			
B	THE MAXIMUM DRAINAGE AREA SIZE FOR CONTINUOUS SILT FENCE WITH BACKING SHALL BE MAXIMUM SLOPE LENGTH BEHIND FENCE ON UP SLOPE SIDE SHALL BE 290 FEET (AS MEASUF			
©	WHEN INSTALLED AT THE TOE OF A SLOPE SILT FENCE WITH WIRE BACKING SHOULD BE PLAC ALLOW SPACE FOR PONDING OF WATER, COLLECTION OF SEDIMENT, AND EASE OF MAINTEN			
D	WHEN TWO SECTIONS OF SILT FENCE WITH WIRE BACKING FABRIC ADJOIN EACH OTHER, THE DETAILS ON STANDARD DRAWING EC-STR-3E.			
Ē	MAINTENANCE SHALL BE PERFORMED AS NEEDED; CAPTURED SOIL MATERIAL SHALL BE REM SILT FENCE AND/OR WHEN EVIDENCE OF FILTER CLOGGING IS OBSERVED.			
F	STEEL POSTS SHALL BE ROLLED FROM HIGH CARBON STEEL AND SHALL HAVE A MINIMUM WE HOT-DIPPED GALVANIZED OR PAINTED WITH HIGH GRADE WEATHER RESISTANT STEEL PAINT ANCHOR PLATE HAVING A MINIMUM AREA OF 14 SQUARE INCHES. POSTS SHALL BE STUDDED ATTACHMENT OF THE WIRE BACKING. POSTS AND ANCHOR PLATES SHALL CONFORM TO THE			
G	STEEL POSTS SHALL HAVE A PROJECTION FOR FASTENING WIRE TO THEM. WOVEN WIRE FEM FENCE POSTS WITH WIRE TIES. THE WIRE FASTENERS SHOULD BE EVENLY SPACED WITH AT			
(H)	FABRIC SHALL BE FASTENED SECURELY TO WOVEN WIRE FENCE BACKING WITH THE TIES SP MIDSECTION.			
	WOVEN WIRE FENCE BACKING SHALL MEET THE REQUIREMENTS FOR AASHTO SPECIFICATIO			
J	SILT FENCE WITH BACKING SHOULD BE PLACED ALONG OR NEAR THE GROUND CONTOURS. SHOULD BE ON A ZERO PERCENT (0%) GRADE, PLUS OR MINUS ONE HALF PERCENT (± 0.5%). BACKING SHOULD BE TURNED UP SLOPE FORMING A J-HOOK TO FILTER ANY CONCENTRATED			
K	FOR TRENCH-BASED INSTALLATIONS, SILT FENCING WITH WIRE BACKING SHALL BE INSTALLE FOLLOWING ORDER:			
	1. EXCAVATE TRENCH A MAXIMUM OF 4 INCHES WIDE AND 6 INCHES DEEP. THE TRE EXCAVATION TO REMOVE BULKY DEBRIS SUCH AS ROCKS, STICKS, AND SOIL CLC			
	2. DRIVE AND SET SUPPORT POSTS PER SPACING REQUIREMENTS GIVEN ON THE A			
	3. ATTACH WOVEN WIRE FENCE BACKING TO POSTS AND FABRIC TO THE WIRE BACKING TO NOTES \bigcirc AND \bigcirc .			
	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 FABRIC SHALL BE REPLACED).			
	ONLY SILT FENCE WITH WIRE BACKING FABRIC LISTED ON THE QUALIFIED PRODUCTS LIST M ON THE 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, MA			
N	SEDIMENT SHALL BE REMOVED FROM BEHIND THE SILT FENCE WITH WIRE BACKING WHEN IT ORIGINAL HEIGHT OF THE STRUCTURE AND PAID FOR UNDER ITEM NUMBER 209-05, SEDIMEN			
0	OSHA 1926.701(B) COMPLIANT (IMPALEMENT PREVENTING) POST CAPS SHALL BE REQUIRED F MAY BE WORKING AND THE RISK OF FALLING DOWN ONTO THE POST IS PRESENT; REGARDL THE GROUND. PLASTIC "MUSHROOM-STYLE"POST CAPS SHALL BE REQUIRED FOR ANY META LESS THAN 36" ABOVE THE GROUND AND WHEN THERE ARE NO WORKERS CONDUCTING WOR REQUIRED FOR METAL POSTS WITH AN INSTALLED HEIGHT OF 36" OR GREATER AND WHEN T ABOVE THE POSTS. ALL CAPS SHALL BE ORANGE OR YELLOW TO ENHANCE VISIBILITY. WHE INCLUDED IN THE TOTAL COST OF SILT FENCE.			

NEER OR NOTED IN THE PLANS. COST TO		ON THE QUALIFIED PRODUC
FOR SILT FENCE WITH WIRE BACKING)	M	SILT FENCE WITH WIRE BAC
		209-08.02, TEMPORA
APS		PAYMENT SHALL INCLUDE A SILT FENCE WITH WIRE BAC
PLASTIC "MASHROOM-STYLE" POST CAP	N	SEDIMENT SHALL BE REMOV ORIGINAL HEIGHT OF THE S
⁻ OSHA 1926.701 (b) COMPLIANT ENT PREVENTING) POST CAP	0	OSHA 1926.701(B) COMPLIAN MAY BE WORKING AND THE THE GROUND. PLASTIC "MU LESS THAN 36" ABOVE THE C REQUIRED FOR METAL POS
BACKING		ABOVE THE POSTS. ALL CAN INCLUDED IN THE TOTAL CC

PHYSICAL PROPERTIES LUES OF TEST DATA)

OFILAMENT (PER AASHTO M288)

0 STANDARD SIEVE

т 2

WARP DIRECTION) X FILL DIRECTION)

WARP DIRECTION) X FILL DIRECTION)

ID REDUCE VELOCITY FROM SHEET FLOW ONLY. REAMS, WETLANDS, PONDS, SPRINGS, OR OTHER WAY AND AT LARGE FILL SLOPES.

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

ACED 5 FEET TO 10 FEET AWAY FROM THE TOE TO NANCE AND REMOVAL.

HEY SHALL BE JOINED ACCORDING TO THE

MOVED WHEN "BULGES" DEVELOP IN THE

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

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

PACED EVERY 24 INCHES ALONG TOP AND

ONS.

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

ED PER THE FOLLOWING STEPS AND IN THE

ENCH SHALL BE HAND-CLEANED FOLLOWING ODS FROM THE TRENCH.

APPLICABLE FENCE DETAIL.

KING USING WIRE TIES. SPACING AND DENSITY

FABRIC DURING COMPACTION (DAMAGED

MAY BE USED. ANY PRODUCTS LISTED

AINTENANCE, AND REMOVAL OF THE

HAS ACCUMULATED TO ONE-HALF THE NT REMOVAL PER C.Y.

FOR ANY METAL POST ABOVE WHICH PEOPLE LESS OF HOW HIGH THE POST STICKS UP OUT OF AL POST WITH AN INSTALLED HEIGHT ORK ABOVE THE POSTS. NO CAPS SHALL BE THERE ARE NO WORKERS CONDUCTING WORK EN REQUIRED, PAYMENT OF POST CAPS SHALL BE 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 (J) AND (K). REVISED TABLE TITLE. REORDERED GENERAL NOTES. REFORMATTED SHEET, REVISED NOTES, MISC. EDITS TO DRAWING.

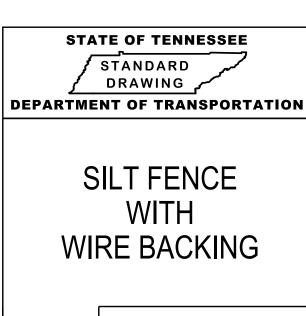
REV. 4-1-08: REMOVED TEMPORARY REFERENCE, REVISED NOTES, AND MISC. EDITS TO DRAWING.

REV. 8-1-12: MINOR EDITS TO GENERAL NOTES.

REV. 06-28-2019: ADDED NOTE (O). REDREW SHEET.

REV. 03-01-2023: REVISED GENERAL NOTE (O). ADDED METAL POST CAPS LEGEND.

APPROVED BY FHWA (ALL OTHERS APPROVED BY TDOT)



12-18-2002

EC-STR-3C