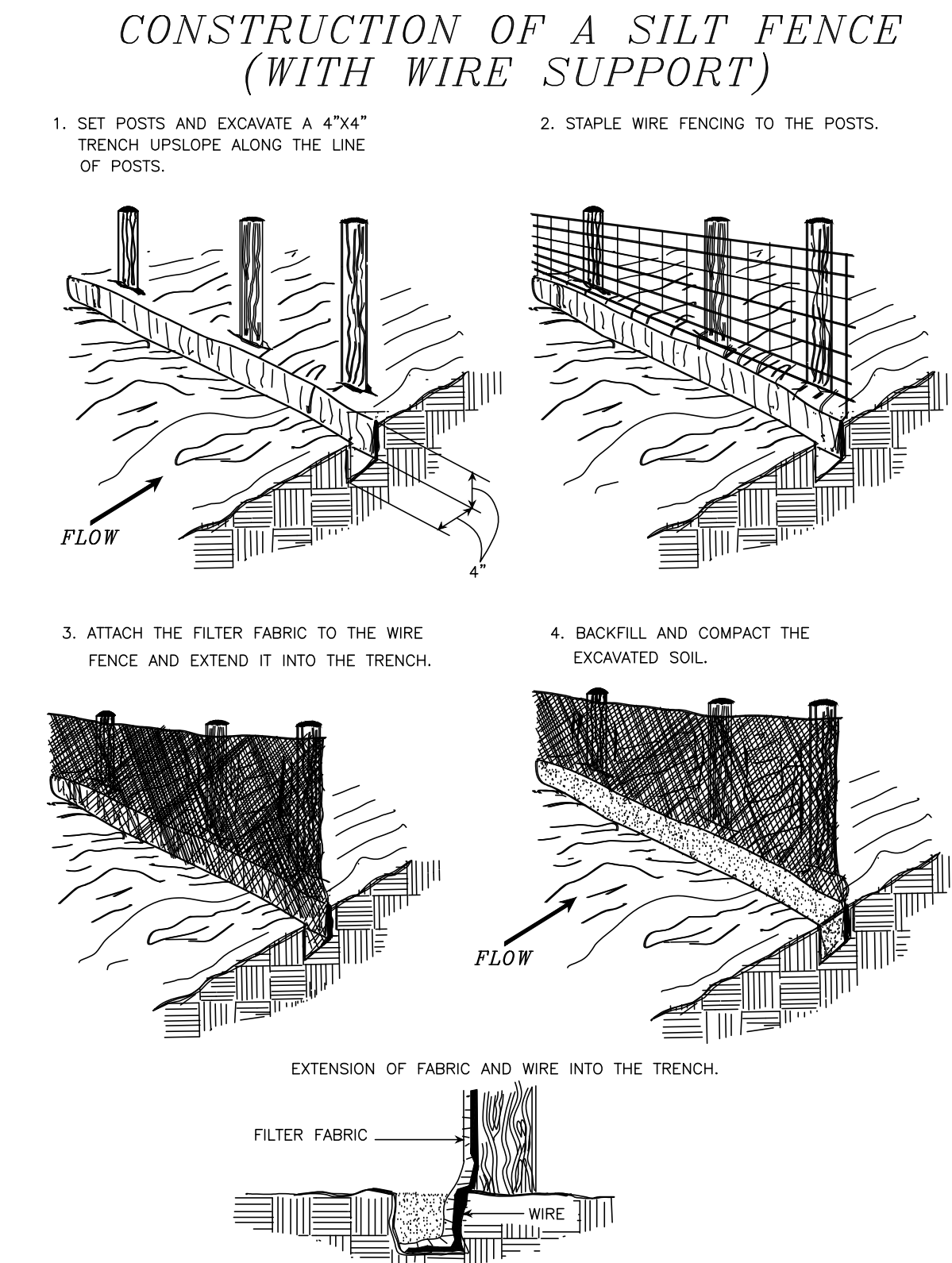
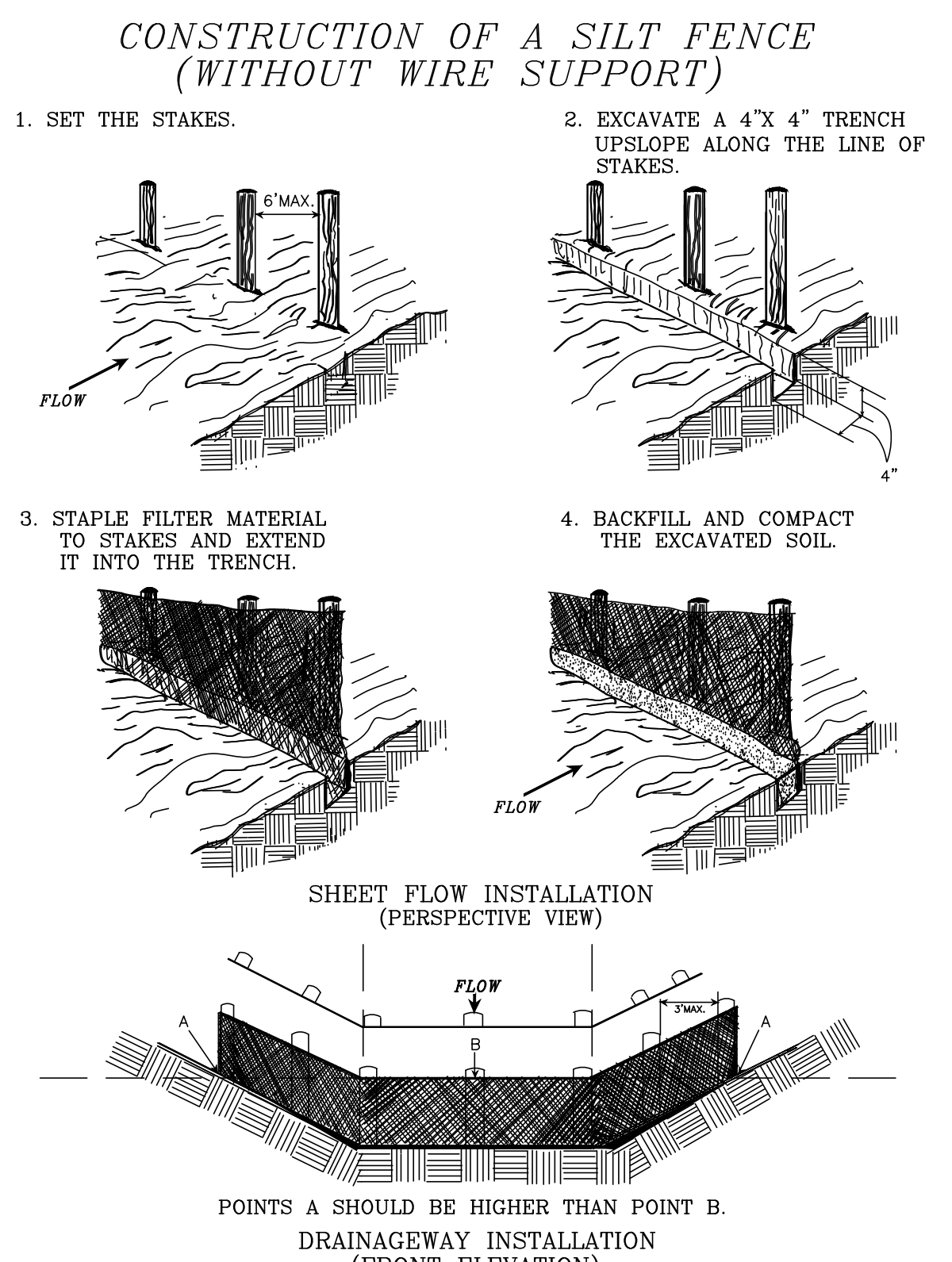


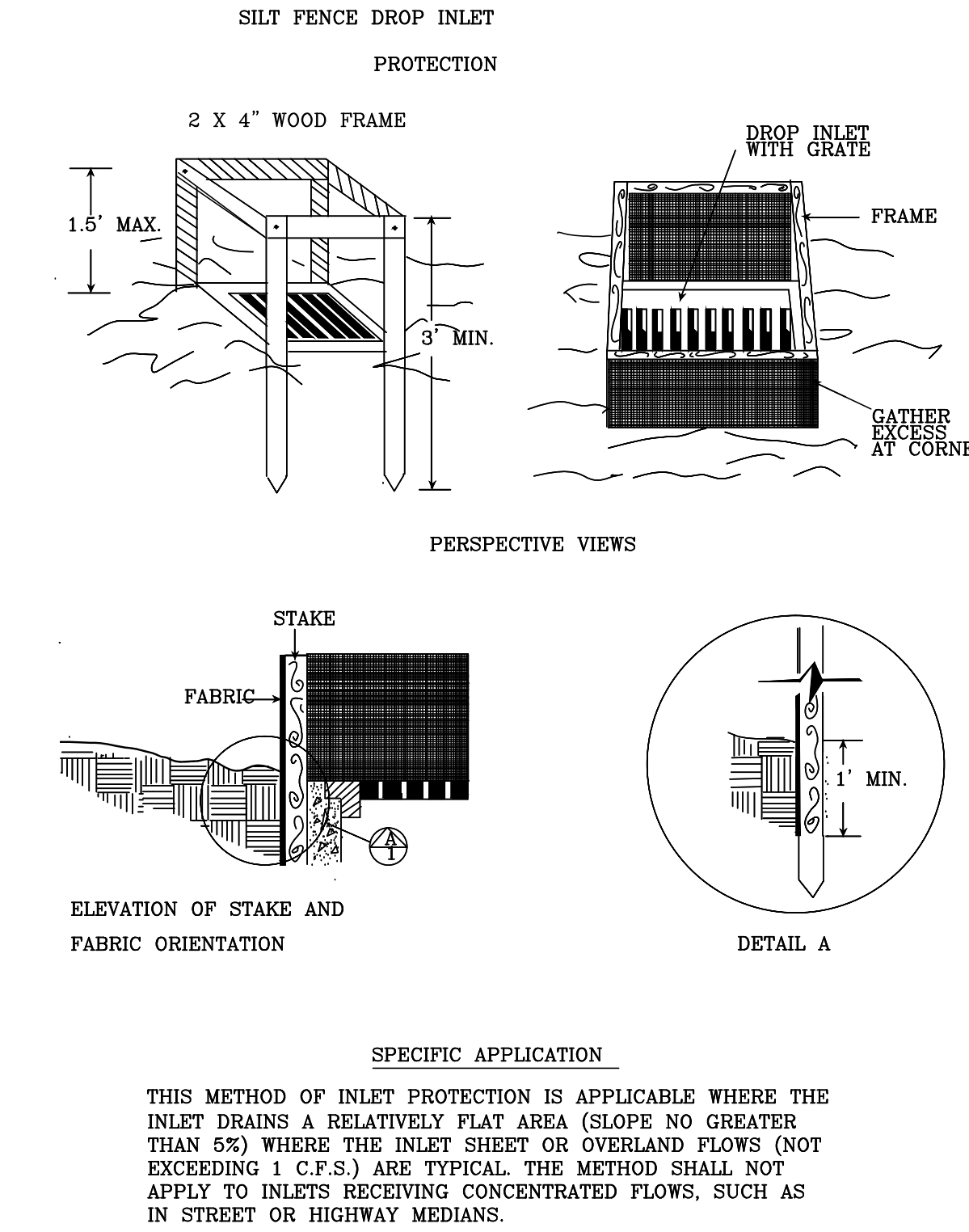
**STONE CONSTRUCTION ENTRANCE**  
(STD. & SPEC. 3.02) **CE**



**SUPER SILT FENCE**  
(STD. & SPEC. 3.05-1) **SSF**



**SILT FENCE**  
(STD. & SPEC. 3.05-2) **SF**



**STORM DRAIN INLET PROTECTION**  
(STD. & SPEC. 3.07-1) **IP**

TABLE 3.35-A ORGANIC MULCH MATERIALS AND APPLICATION RATES			
MULCHES:	RATES:		NOTES:
	Per Acre	Per 1000 sq. ft.	
Straw or Hay	1 1/2 - 2 tons (Minimum 2 tons for winter cover)	70 - 90 lbs.	Free from weeds and coarse matter. Must be anchored. Spread with mulch blower or by hand.
Fiber Mulch	Minimum 1500 lbs.	35 lbs.	Do not use as mulch for winter cover or during hot, dry periods.* Apply as slurry.
Corn Stalks	4 - 6 tons	185 - 275 lbs.	Cut or shredded in 4-6" lengths. Air-dried. Do not use in fine turf areas. Apply with mulch blower or by hand.
Wood Chips	4 - 6 tons	185 - 275 lbs.	Free of coarse matter. Air-dried. Treat with 12 lbs nitrogen per ton. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand.
Bark Chips or Shredded Bark	50 - 70 cu. yds.	1-2 cu. yds.	Free of coarse matter. Air-dried. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand.

**MULCHING**  
(STD. & SPEC. 3.35) **MU**

TEMPORARY SEEDING MIXTURE:

THE SEEDING INFORMATION PROVIDED BELOW IS FOR GENERAL COMPLIANCE WITH EROSION & SEDIMENT CONTROL REQUIREMENTS. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL TECHNICAL REQUIREMENTS.

FERTILIZER: SHALL MEET REQUIREMENTS OF FEDERAL SPECIFICATION O F 241. PROVIDE FERTILIZER THAT IS COMPLETE, INORGANIC, UNIFORM IN COMPOSITION, AND SUITABLE FOR APPLICATION WITH APPROVED EQUIPMENT. PROPORTIONS OF FERTILIZER NUTRIENTS SHALL BE THE FOLLOWING:

10 LBS. OF ACTUAL NITROGEN  
10 LBS. OF ACTUAL PHOSPHATE  
10 LBS. OF ACTUAL POTASH

TEMPORARY SEED MIXTURE: SHALL HAVE THE FOLLOWING CHARACTERISTICS:

SEEDING DATE	SPECIES	PERCENTAGES (MINIMUM)			SEEDING RATE LBS. PER ACRE
		WGT.	PURITY	GERM.	
02/15-03/30	OATS	100	98	85	96
05/01-08/31	MILLET	100	98	80	40
09/01-11/15	RYE	100	96	85	140

LIME: SHALL BE GROUND AGRICULTURAL GRADE LIMESTONE CONTAINING NOT LESS THAN 85 PERCENT CALCIUM AND MAGNESIUM CARBONATES. FINENESS SHALL BE SUCH THAT 100 PERCENT WILL PASS A NO. 20 SIEVE, AND NOT LESS THAN 50 PERCENT WILL PASS A NO. 100 SIEVE. BURNED LIME OR HYDRATED LIME MAY BE SUBSTITUTED IN EQUIVALENT CARBONATES, IF REQUESTED.

MULCH: TYPE I MULCH SHALL BE CURLEX BLANKET EROSION CONTROL FABRIC BLANKET. THE FABRIC SHALL BE MANUFACTURED OF MATERIALS WHICH DEGRADE IN 6 TO 8 MONTHS UNDER OUTDOOR EXPOSURE. TYPE II MULCH COMPOSED OF THRESHED STRAW OF CEREAL GRAIN, PINE NEEDLES, OR WOOD FIBER SHALL BE FREE OF OBJECTIONABLE WEED SEEDS OR OTHER HARMFUL MATERIAL.

BINDER: SYNTHETIC MULCH BINDER FOR USE WITH TYPE II MULCH: CURASOL, DCA 70, PETROSET, OR TERRA TACK.

**TEMPORARY SEEDING MIXTURE**  
(STD. & SPEC. 3.31) **TS**

PERMANENT SEEDING MIXTURE:

THE SEEDING INFORMATION PROVIDED BELOW IS FOR GENERAL COMPLIANCE WITH EROSION & SEDIMENT CONTROL REQUIREMENTS. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL TECHNICAL REQUIREMENTS.

LIME: AS REQUIRED BY SOIL TEST. AGRICULTURAL LIMESTONE CONTAINING MINIMUM OF 85 PERCENT CARBONATES. MINIMUM GRADATION: 100 PERCENT PASSING A 10 MESH SIEVE; 98 PERCENT A 20 MESH SIEVE; 55 PERCENT A 60 MESH SIEVE; AND 40 PERCENT A 100 MESH SIEVE.

FERTILIZER: SHALL BE GRANULAR, OR PELLETTED, COMPLETE COMMERCIAL TYPE WITH 50 PERCENT OF THE NITROGEN IN SLOWLY AVAILABLE FORM. ALL FERTILIZER SHALL BE A COMMERCIAL, BALANCED FORMULA WITH AT LEAST 25 PERCENT ORGANIC MATERIAL, AND SHALL CONFORM TO APPLICABLE STATE FERTILIZER LAWS. IT SHALL BE UNIFORM IN COMPOSITION, IN GRANULAR FORM DRY AND FREE-FLOWING. FOR ALL GRASS AND LAWN AREAS IT SHALL HAVE A MINIMUM GUARANTEED ANALYSIS OF 15 PERCENT NITROGEN, 30 PERCENT PHOSPHORUS, AND 15 PERCENT POTASH.

SEED: ALL PERMANENT GRASS SEED SHALL BE MANUFACTURED BY A SEED COMPANY THAT CAN GUARANTEE ALL SEED SHALL BE FREE OF NOXIOUS WEED SEEDS, CLEANED, GRADE A, RECENT CROP SEED. SEED COMPANY SHALL PROVIDE GUARANTEED GERMINATION OF 80 PERCENT.

SEED MIXTURE SHALL CONSIST OF (PROPORTIONED BY WEIGHT):

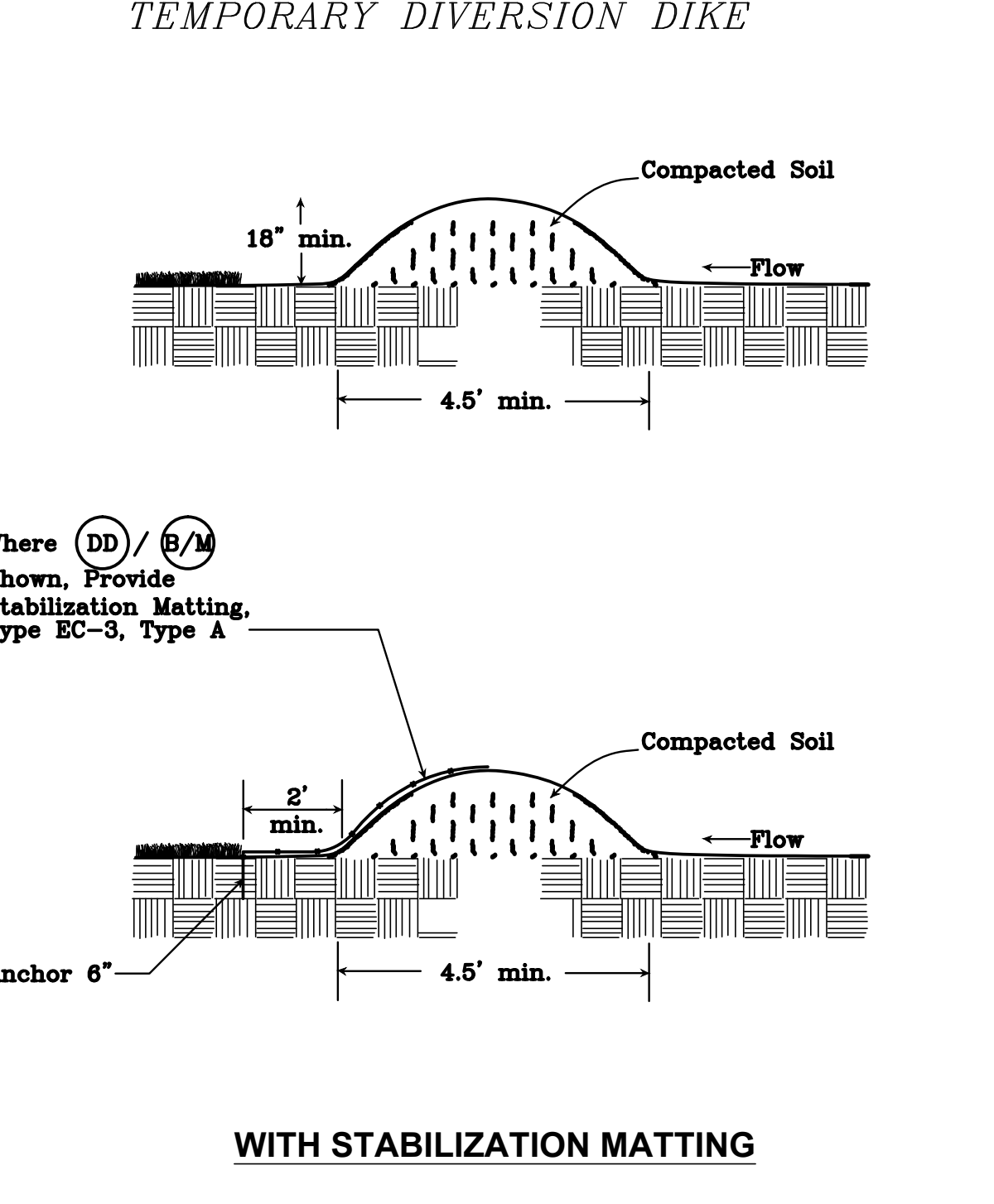
KENTUCKY BLUEGRASS (MIX OF 3 VARIETIES) 25%  
TURF TYPE TALL FESCUE (REBEL 30, TITAN 2, SHENANDOAH, FINELAWN 88, ANTHEM) 75%

APPLICATION: SEEDING SHALL BE APPLIED BETWEEN MARCH 1 AND MAY 15, OR AUGUST 16 AND OCTOBER 31. CAST SEEDS AT 4 POUNDS PER THOUSAND SQUARE FEET.

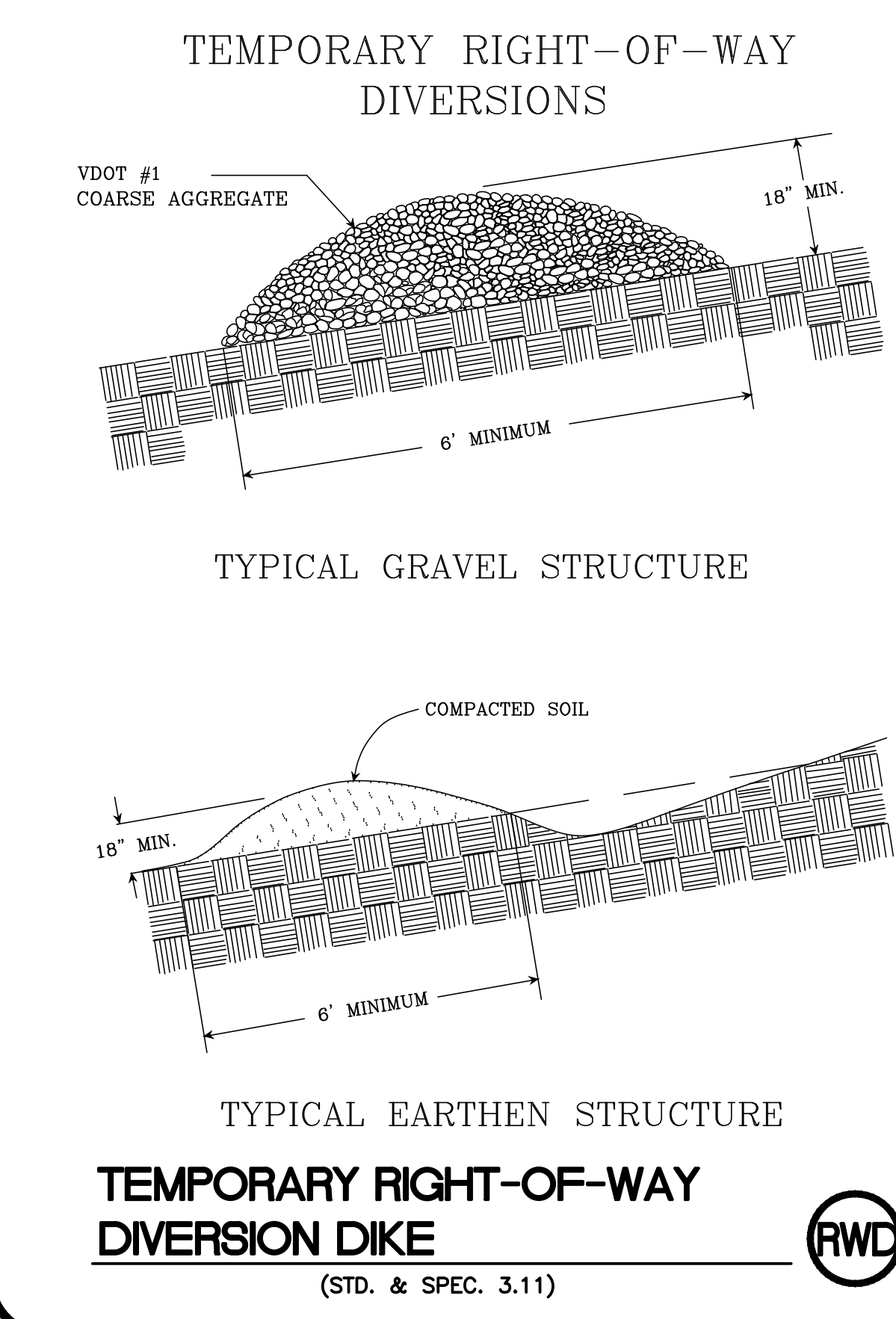
MULCH: SHALL BE CLEAN WHEAT OR BARLEY STRAW, FREE FROM NOXIOUS WEED SEED AND OTHER HARMFUL MATERIAL. COMMERCIAL PRODUCTS MAY BE USED WITH APPROVAL.

BINDER: SHALL BE FIBER MULCH BASED TACK BINDER SUCH AS "DYNO-BLEND" BY CONVED OR EQUAL. APPLY AT 25 LBS. PER THOUSAND SQUARE FEET ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

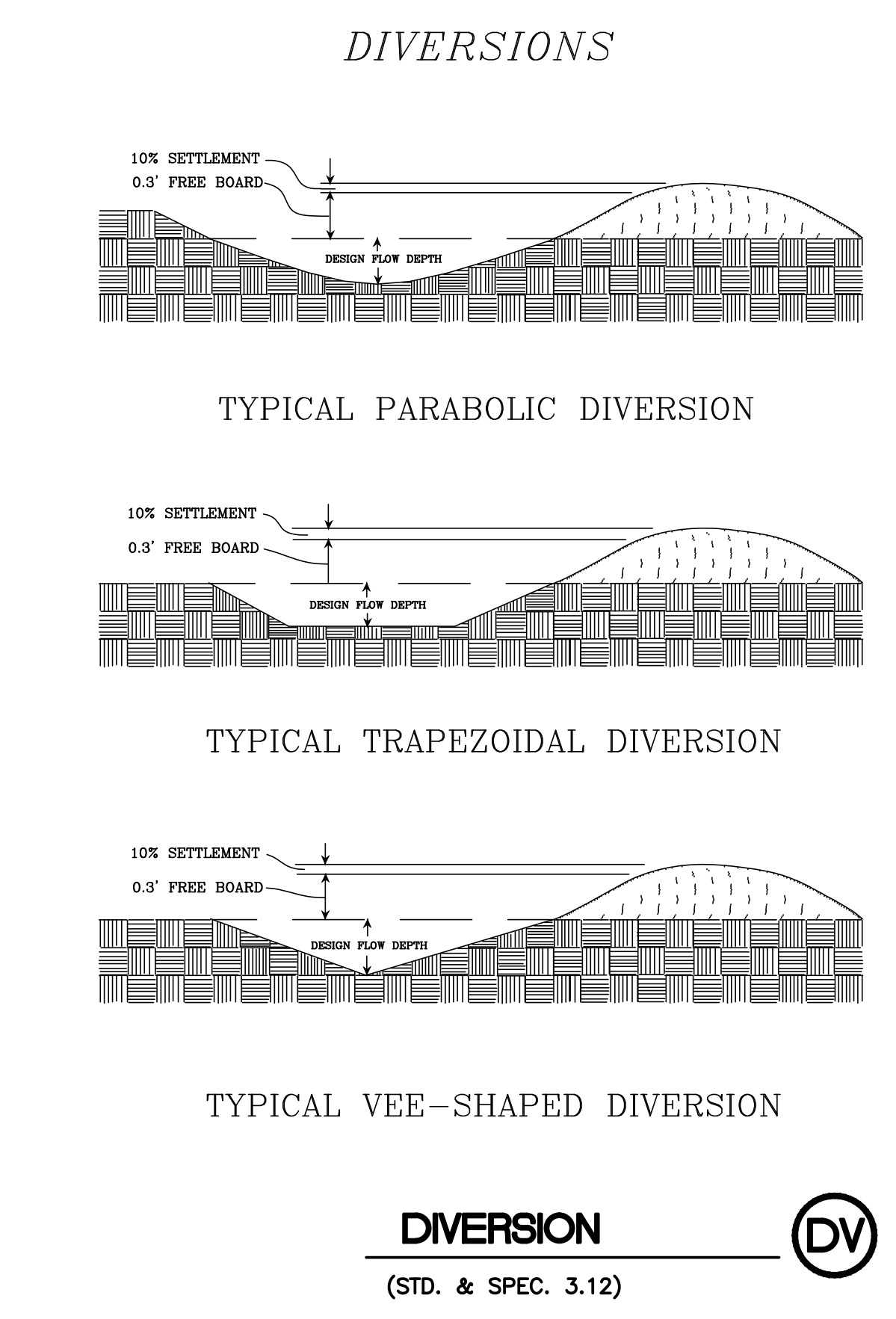
**PERMANENT SEEDING MIXTURE**  
(STD. & SPEC. 3.32) **PS**



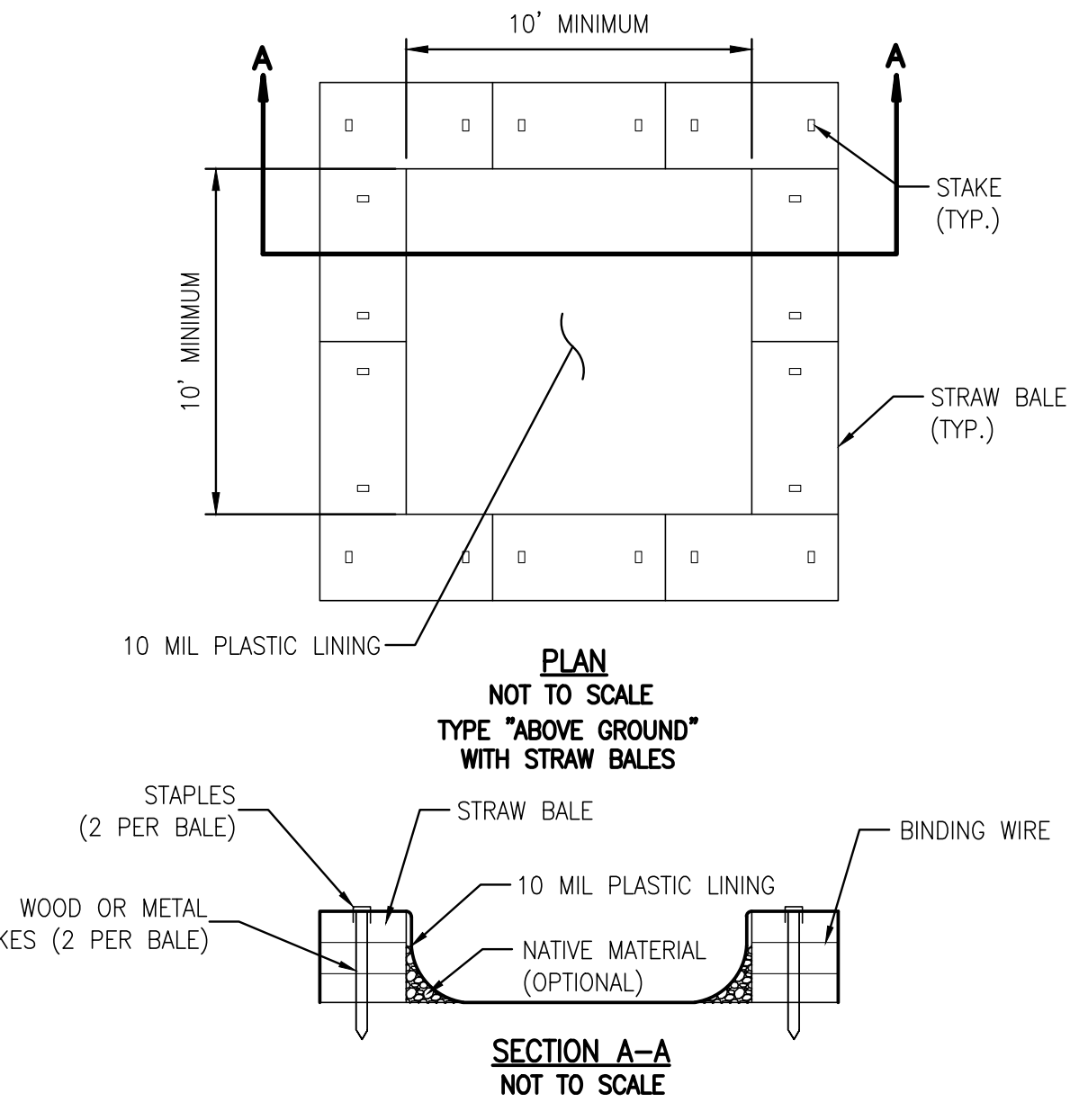
**TEMPORARY DIVERSION DIKE**  
(STD. & SPEC. 3.09) **DD**



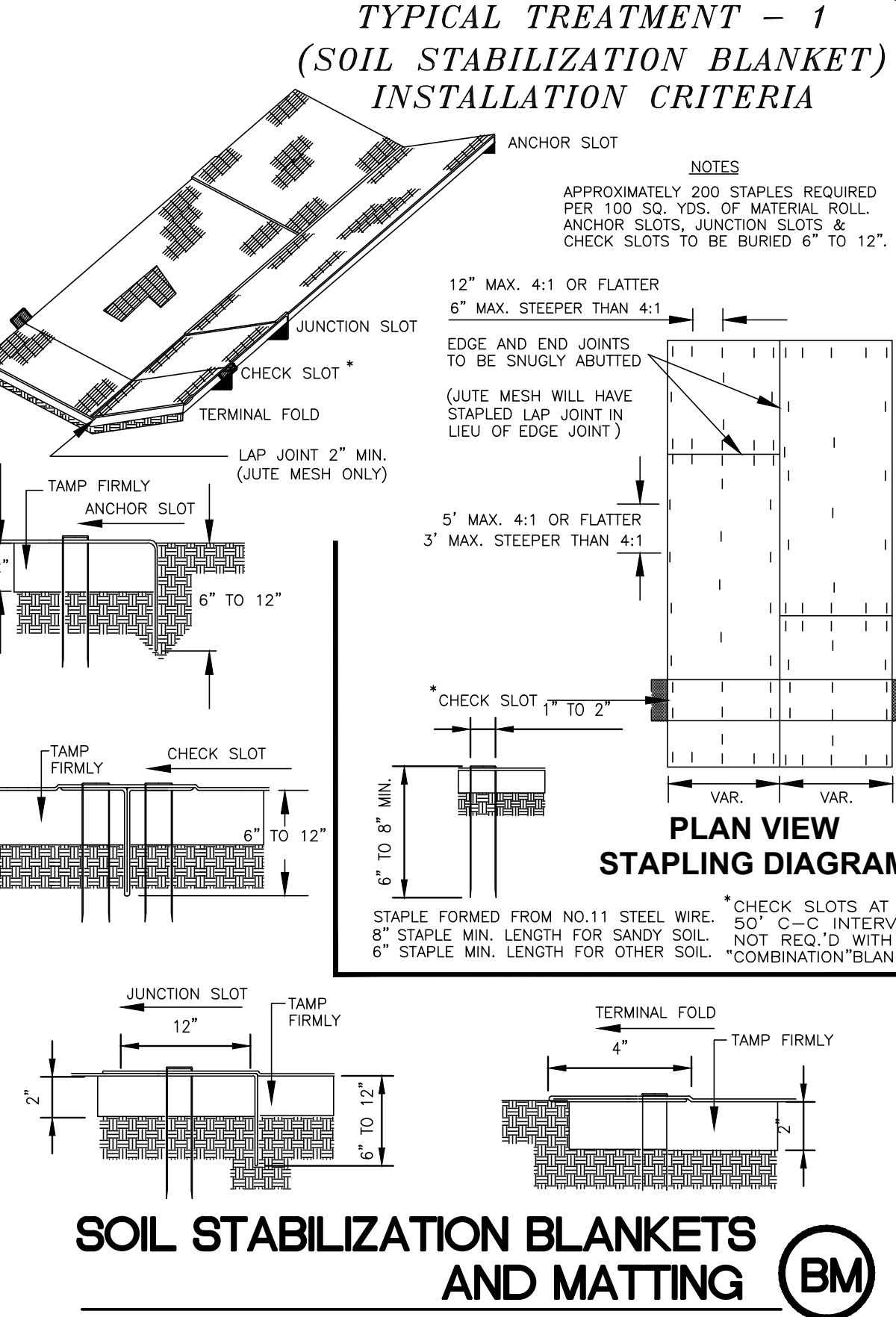
**TEMPORARY RIGHT-OF-WAY DIVERSION DIKE**  
(STD. & SPEC. 3.11) **RWD**



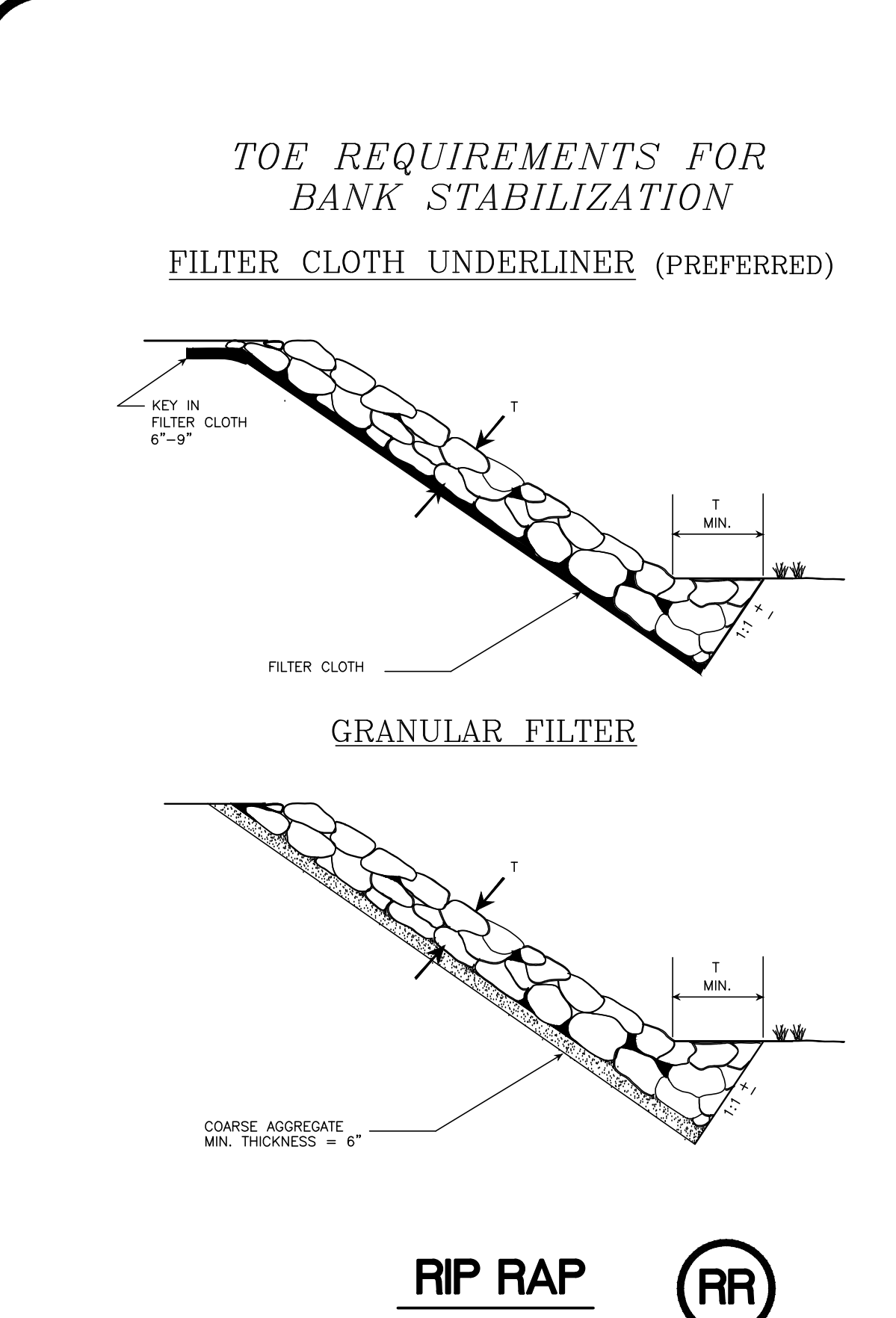
**DIVERSION**  
(STD. & SPEC. 3.12) **DV**



**TEMPORARY CONCRETE WASHOUT**  
(STD. & SPEC. 3.36) **CW**



**SOIL STABILIZATION BLANKETS AND MATTING**  
(STD. & SPEC. 3.36) **BM**



**RIP RAP**  
**RR**

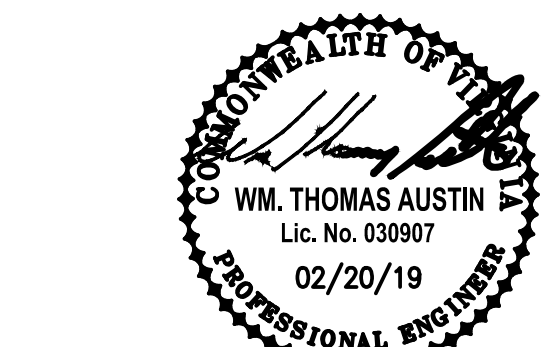


City of Roanoke  
Planning, Building, & Development  
COMPREHENSIVE DEVELOPMENT PLAN  
**APPROVED**  
by Ken Richardson  
07/08/2019

CITY PLAN NO.: CP19-0003

**Mattern & Craig**  
ENGINEERS/SURVEYORS  
701 FIRST STREET, S.W.  
ROANOKE, VIRGINIA 24016  
(540) 345-9342  
FAX (540) 345-7691

GENERAL NOTES



PROJECT TITLE  
**ROANOKE FIRE-EMS STATION #7**  
BID SET

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PROJECT DESIGNER	:	
PROJECT ARCHITECT	:	
PROJECT ENGINEER	:	WTA
DRAWN BY	:	ARB
CHECKED BY	:	WTA
APPROVED BY	:	WTA
NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE  
**EROSION & SEDIMENT CONTROL DETAILS**

COMM. NO. 17503.00	DATE FEBRUARY 20, 2019
DRAWING <b>C7.5</b>	SHEET OF