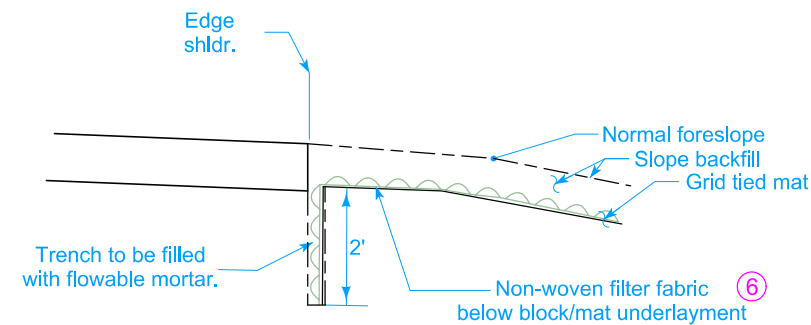


FORESLOPE LINING TYPICAL SECTION



ANCHOR BLOCK TYPICAL SECTION

- ① Dimension along grade, adjust to place anchor between blocks
- ② Embed, two feet of mat on all exposed edges at 1:1 slope. backfill trench with well compacted excavated material.
- ③ Type 1 ground anchor, spa. at 4'. adjacent to cut-off trench install at 45 deg. to horz., otherwise install perp. to slope or at angle per mat manuf. recommendation. Mat shall be fastened to anchor with a steel top bearing 'X' plate, 12 inch cross, 0.11 inch thick steel. Plate shall be Zinc Plastisol coated or approved equal.
- ④ Type 2 anchor, install at 45 deg. to horz. as shown.
- ⑤ Excavate 10 in. for mat placement as required. place 10 in. backfill over mat using excavated material or topsoil if required per re-vegetation requirements.
- ⑥ Non-woven filter fabric on placement grade below block and mat underlayment. fabric shall be continuous over placement width. Underlayment seams shall be overlapped 2 foot minimum. Underlayment shall be continuous across mat seams, with edge of overlap extending 2 feet minimum from edge of mat seam, otherwise a 4 foot wide section of underlayment shall be placed centered on the seam.

Measurement will be in square yards of slope covered, as measured along the slope.

Payment includes all materials, tools, and labor required to construct "Foreslope Erosion Countermeasure" as detailed.

 ROAD DESIGN DETAIL	REVISION	
	NEW	10-19-21
570-20		SHEET 1 of 2

REVISIONS: New.

Stuart Miller

**FORESLOPE EROSION COUNTERMEASURE
REVETMENT DETAILS
(MINOR OVERTOPPING)**

Grid tied concrete block
mat underlain w/ non-woven
filter fabric

Mat underlayment
non-woven filter fabric

Non-woven filter
fabric trench
lining

Ground anchor
type 2
spa. at 3'

Cut-off trench
see detail

24"

LAP DETAIL

- ⑦ Fold trench lining fabric with termination toward direction of flow, 12 in. lap min. lap section shall not be pinned/staked to underlying ground except within 3 in. of edge trench.
- ⑧ Embed mat underlayment fabric into trench, 18 in. min. depth as shown. mat underlayment may be continuous around trench sides and btm. or only sides when located at underlayment seam.
- ⑨ Non-woven filter fabric overlap, 24 in. min. width, place over mat underlayment, center on trench.
- ⑩ Backfill trench with well compacted excavated material.
- ⑪ Where trench is installed adjacent to ground anchor, place anchor through mat at edge of first block upstream of edge trench.
- ⑫ For mat seams parallel to the flow direction (longitudinal seams) abutting sections of mat shall be joined using stainless steel zip ties spaced at 12 inch centers.
- ⑬ Mat shall be fastened to anchor with a steel top bearing 'X' plate, 12 inch cross, 0.11 inch thick steel. Plate shall be Zinc Plastisol coated or approved equal.

Flow

Travel way
Shoulder

Anchor block

Anchor
⑬

2' overlap
(see lap detail)

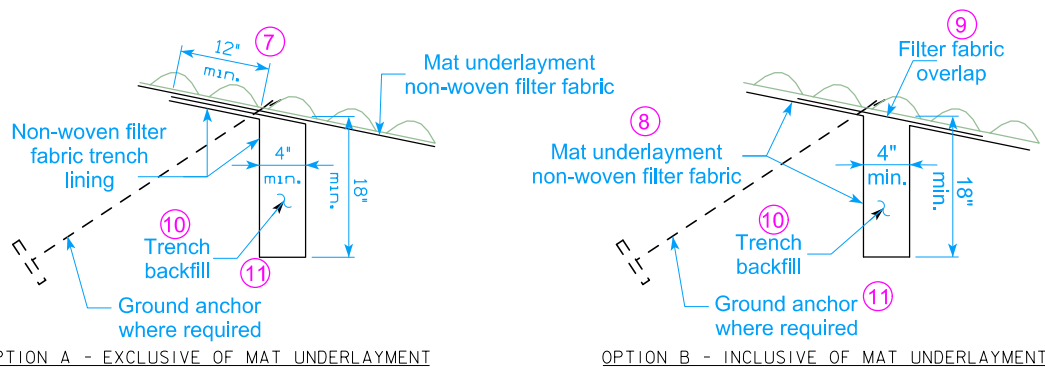
2' embedment

Toe of slope

2' embedment

Stainless steel zip tie
⑫

PLAN



OPTION A - EXCLUSIVE OF MAT UNDERLAYMENT

OPTION B - INCLUSIVE OF MAT UNDERLAYMENT

CUT-OFF TRENCH DETAIL

	REVISION	
	NEW	10-19-21
	570-20	
ROAD DESIGN DETAIL		SHEET 2 of 2
REVISIONS: New.		

**FORESLOPE EROSION COUNTERMEASURE
REVTMENT DETAILS
(MINOR OVERTOPPING)**