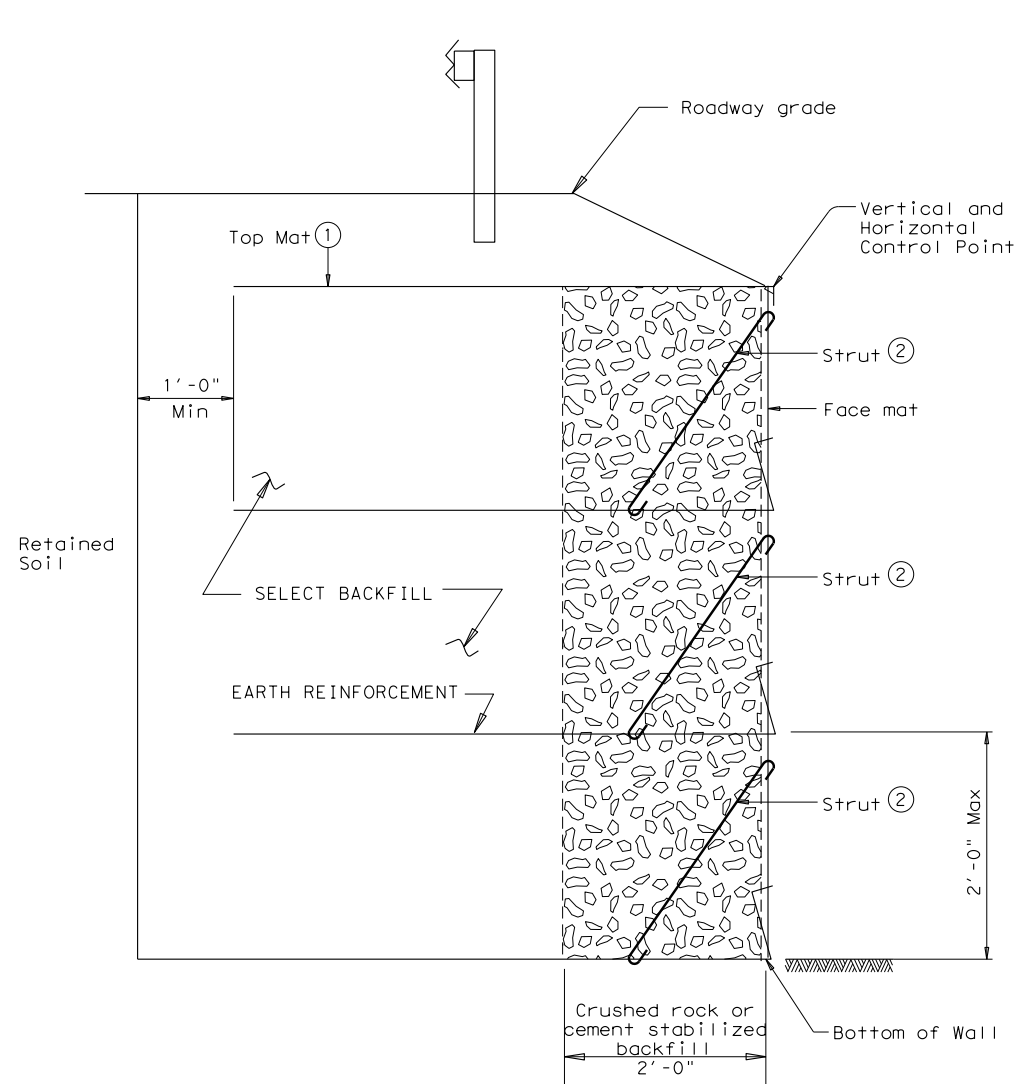


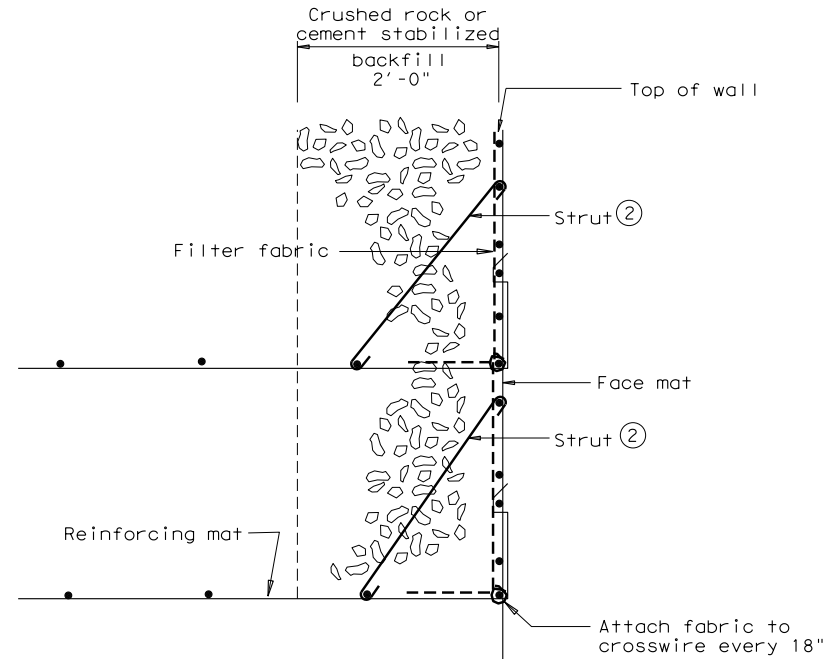
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TYPICAL SECTION
(SHOWING TOP MAT OPTION)

- ① Provide top mat to stabilize top of wall. Contractor may propose alternate method to stabilize top of wall.
- ② Provide intermediate struts as required to stabilize face.



DETAIL OF WALL FACE
(SHOWING STRUT OPTION)

EARTH REINFORCEMENTS:

The maximum vertical spacing of earth reinforcements shall be 24 inches.
 The minimum length of earth reinforcements shall be 6 feet for walls 6 feet and shorter, and 8 feet for walls over 6 feet tall.
 Minimum wire size for welded wire earth reinforcements shall be W4.5. Longitudinal wire spacing shall not exceed 12 inches. Transverse wire spacing shall not exceed 24 inches.
 Earth reinforcement allowable stresses and pullout shall be calculated with current AASHTO Standard and Interim Specifications.
 Factor of safety in pullout of the earth reinforcements shall be greater than 1.5 at each reinforcement level.
 Temporary Earth Wall reinforcements that will be placed in the reinforced volume of a permanent MSE wall shall either be non-metallic or galvanized.

WALL FACE:

Minimum wire size for welded wire material used for all facing shall be W4.5. Spacing of the wire shall not exceed 6 inches in either the horizontal or vertical direction. The facing shall be designed to maintain a vertical position during wall backfilling. This may be accomplished with wire struts, external bracing, or other means which provide acceptable performance. If the face does not remain vertical during wall backfilling, work shall be stopped until the system is modified to meet this requirement.
 Angled struts or a top mat shall be provided to stabilize the top basket face. Strut spacing shall not exceed 24 inches.

STABILITY CRITERIA:

Factor of safety in sliding along the base of the structure shall be greater than or equal to 1.5.
 Factor of safety in overturning shall be greater than or equal to 2.0.
 The base pressure resultant shall fall within the middle third of the retaining wall.

DESIGN PARAMETERS:

Structure shall be based on the following design parameters:
 Random Backfill: Unit weight = 120 pcf.
 (Embankment or Existing Soils) $\phi = 30^\circ$ $c = 0$ psf
 Select Backfill: Unit weight = 120 pcf
 $\phi = 30^\circ$ $c = 0$ psf

GENERAL NOTES:

Sections shown are for informational purposes only. Specific geometry is to be determined based on wall layouts and other plan information.
 The select backfill specified for use within the Temporary Earth Wall Select Volume shall extend horizontally from the back of the 2' backfill zone to a minimum of 1' beyond the end of the earth reinforcements.

SPECIAL NOTE - FACE CONSTRUCTION

When constructing wire faced walls, it is critical that the area immediately behind the face mat be completely filled. Failure to fill and compact this area will result in bulging of the face mats and settlement of the top of wall. The filter fabric shall closely follow the contours of the face unit, with particular attention paid to the lower corner of the basket. The fabric shall be pulled into the corner and attached to the basket with hog rings or tie wire. The coarse rock or cement stabilized backfill in the two foot zone behind the face shall extend completely to the top of the face mat. Particular care shall be taken not to leave a gap or void below the next layer of earth reinforcement.

				Bridge Division Standard	
TEMPORARY EARTH RETAINING WALL					
RW(TEW)					
FILE: rwstde04.dgn	DN: TxDOT	CK: TxDOT	DW: GH0	CK: MPM	
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REVISIONS					
01-13: Added Struts.	DIST	COUNTY			SHEET NO.