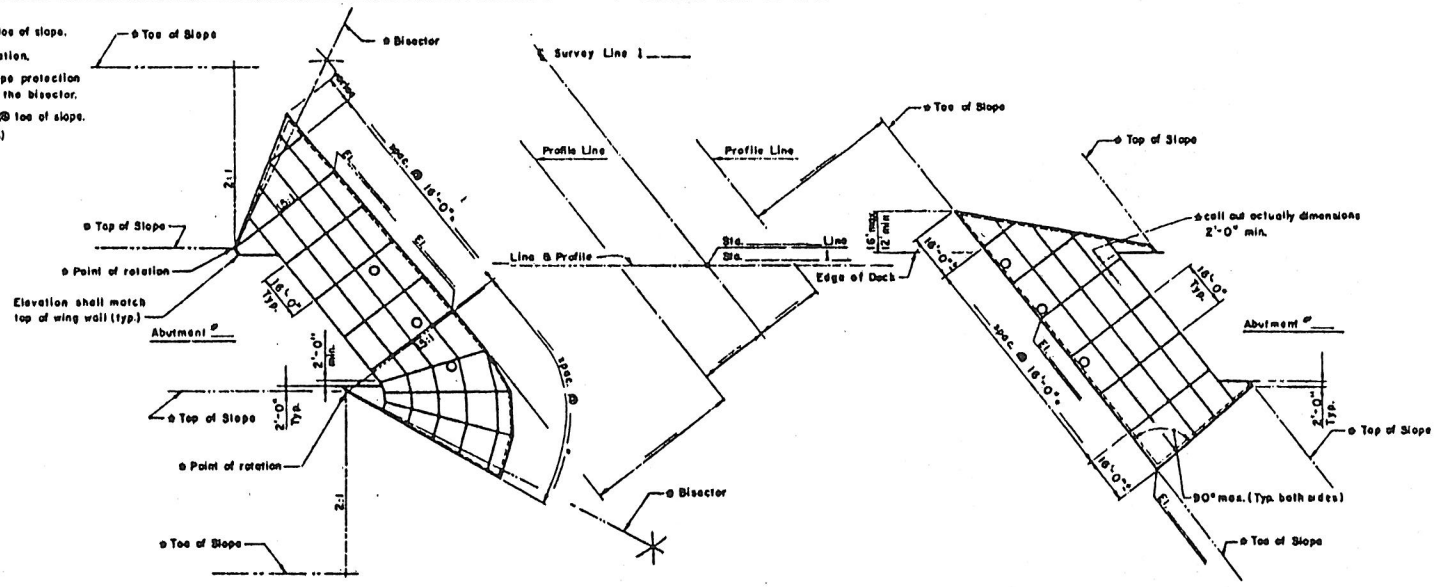
- 1.- Locate theoretical toe of slope.
- 2.- Bisect angle of rotation.
- 3.- Locate sides of slope protection at or slightly past the bisector.
- 4.- Give Elev. Control @ toe of slope. (At least two points)



FILL

CUT

GENERAL NOTES

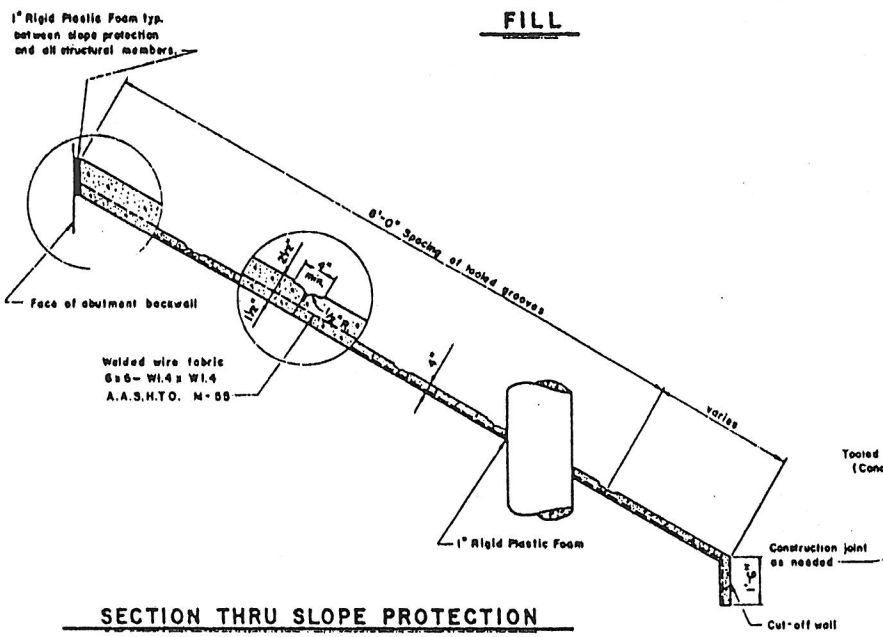
1.- Quantities given for Concrete Slope Protection are estimates only and are based on the exposed finished concrete surface area

2.- Elevations at toe of slope are approximate only and shall be verified at the time of construction by the Engineer

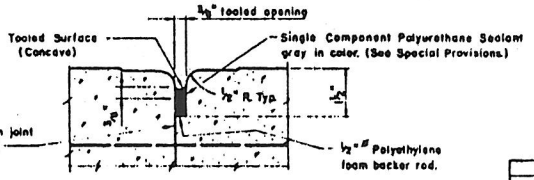
3.- Location of the toe of slope is approximate only and shall be modified to meet field conditions as directed by the Engineer.

4.- Payment for furnishing and placing welded wire fabric, groove fillers and joint fillers shall be included in the contract price per square yard for concrete slope protection.

5.- Cut-off wall (1'-6" x 4" thick) is continuous around perimeter of slope protection except at the abutment footing. Payment for cut-off walls shall be included in the contract price per square yard for concrete slope protection



SECTION THRU SLOPE PROTECTION



TOOLED OPENING

CONCRETE SLOPE PROTECTION QUANTITIES	
	Sq. Yds.
Abutment # 1	
Abutment #	
Total	

UTAH DEPARTMENT OF TRANSPORTATION
SALT LAKE CITY UTAH
STRUCTURES DIVISION

CONCRETE SLOPE PROTECTION

REVISIONS

M.U.S. 12-22-81 Standard book only

NOTES ON LAYING OUT SLOPE PROTECTION ON FILL SLOPES

1. Locate top of slope & theoretical toe of slope for both side & end slopes.

2. Rotate toe of slope thru angle of rotation assuming uniform change of slope from 1½:1 end slopes to 2:1 side slopes.

3. Bisect the angle of rotation to locate 1 3/4:1 slope.

4. Extend toe of slope lines to locate a point of intersection.

5. Stop slope protection between the rays to toe of slope intersection and bisector of rotated angle, preferrably closer to angle bisector.

6. Locate grooves in slope protection 16' on center horizontally & 8' on center down the slope.

7. Provide elevation control at toe of slope (at least 2 points).

WHAT TO EXPECT

See Figures 1, 2, & 3 for typical layouts.

See Slope Protection Standard for groove & joint treatment.

THINGS TO REMEMBER

The toe of slope may or may not be where you think it actually is, depending on how the fill was placed. Unless you have good field information your toe of slope will have to be a theoretical toe of slope.