

Designer Checklist

Complete entire check-list for EVERY outlet.

Date: _____

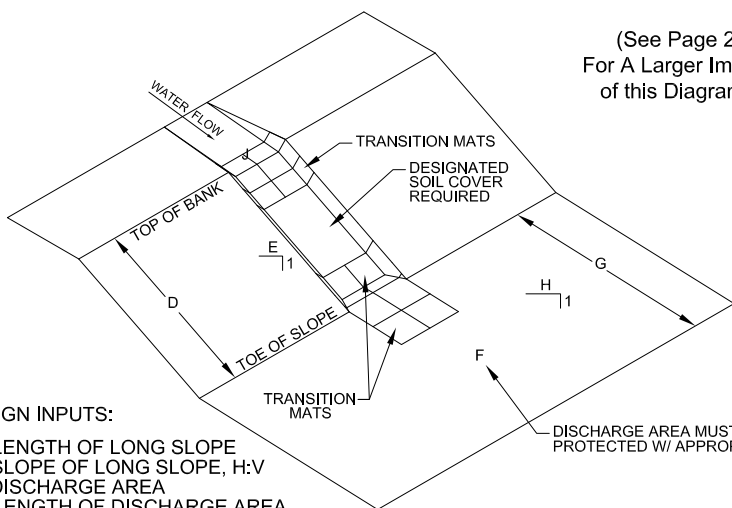
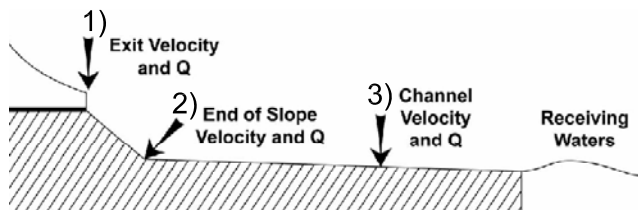
Location of Outlet: _____ Company Project # _____

Storm Event: 2 year storm _____ Other _____
 10 year storm _____

Calculate Downstream Flow Velocities and Volumes

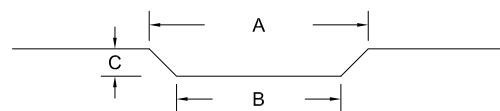
Determine flow volumes and compute velocities using 0.02 for Manning's "n":

- 1) At Discharge Outfall: _____ fps _____ cfs
 2) At end of first slope: _____ fps _____ cfs
 3) At end of downstream channel: _____ fps _____ cfs



(See Page 2 For A Larger Image of this Diagram)

SECTION VIEW (W/ EXAMPLE DIMENSIONS)



DIMENSION	FEET	METERS
A	8.0	2.44
B	6.0	1.83
C	0.5	0.15

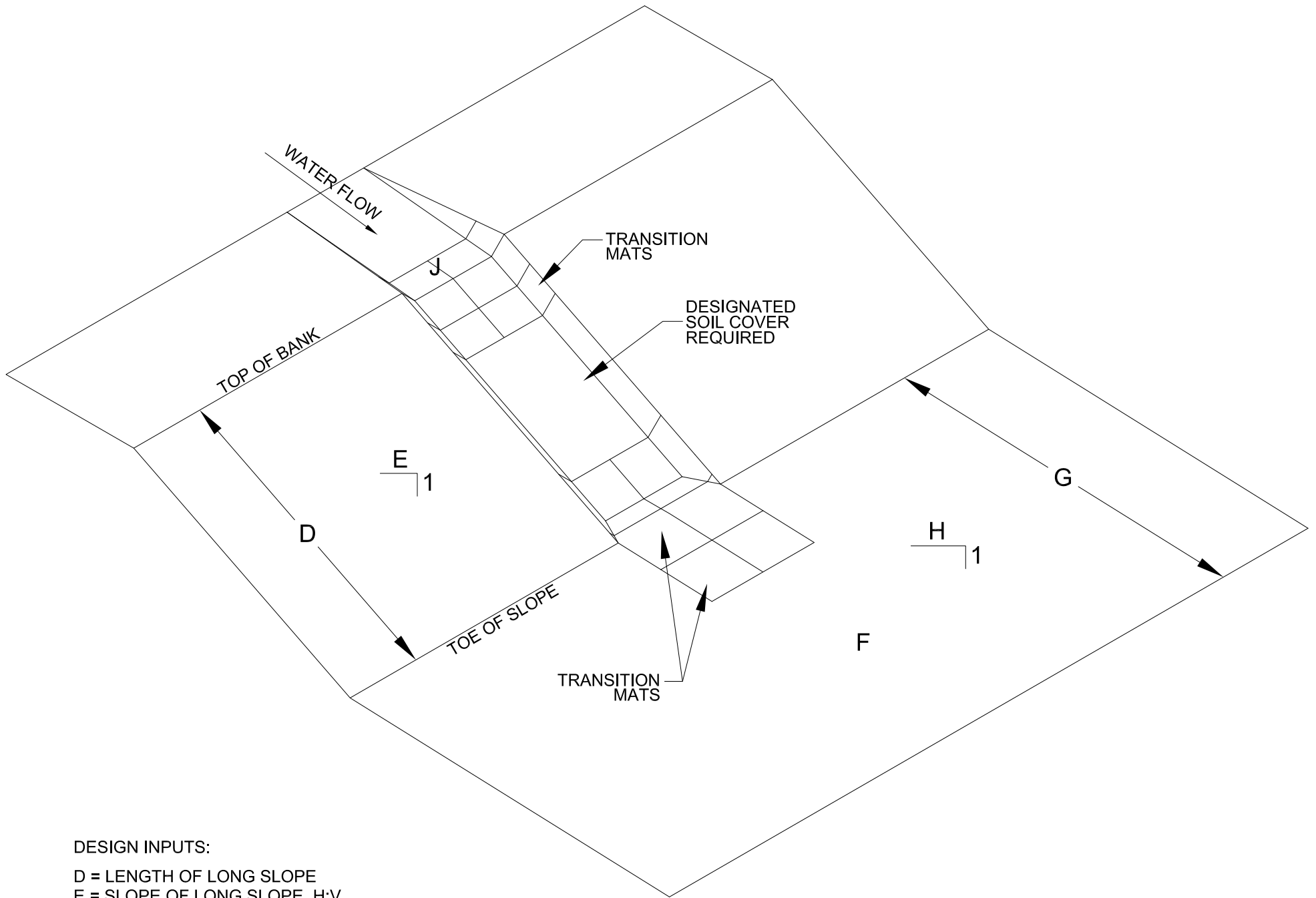
DESIGN INPUTS:

- D = LENGTH OF LONG SLOPE
 - E = SLOPE OF LONG SLOPE, H:V
 - F = DISCHARGE AREA
 - G = LENGTH OF DISCHARGE AREA
 - H = SLOPE OF DISCHARGE AREA, H:V
 - J = CROWN AREA AT OUTFALL
- IF PIPE OUTFALL AT J, NEED PIPE SLOPE AND PIPE SIZE
 IF OPEN OUTFALL AT J, NEED SLOPE AND/OR VOLUME IN CFS

PIPE DIAMETER	DISCHARGE (CFS)	SCOURSTOP WIDTHxLENGTH
12"	8	4' x 4'
24"	30	4' x 8'
36"	75	8' x 12'
48"	100	12' x 16'
60"	150	12' x 20'
72"+		SEE DETAILS

Design Considerations:

- _____ Non-Cohesive soils? Use Non-Cohesive soil construction specifications.
- _____ ScourStop must be used over a soil cover.
- _____ Channel configuration - as long, wide, and flat as possible?
- _____ Avoiding Impact erosion?
- _____ Channel protection - if TRM, use its unvegetated rating.
- _____ Additional ScourStop needed at slope changes?
- _____ Temporary velocity dissipaters required with unvegetated TRMs?
 GeoRidge (www.nilex.com) or Enviro-berm (www.cascade.ab.ca).
- _____ Saturated soils and Non-Cohesive soils require special design consideration.
- _____ Adequate sunlight for vegetation?
- _____ Alternate applications: Shoreline protection, streambed, streambank, overflow structures - see construction specifications.
- _____ ScourStop may not be applicable to all areas. It is OK to use alternate BMP.
- _____ Lateral discharge into stream - see detail.



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