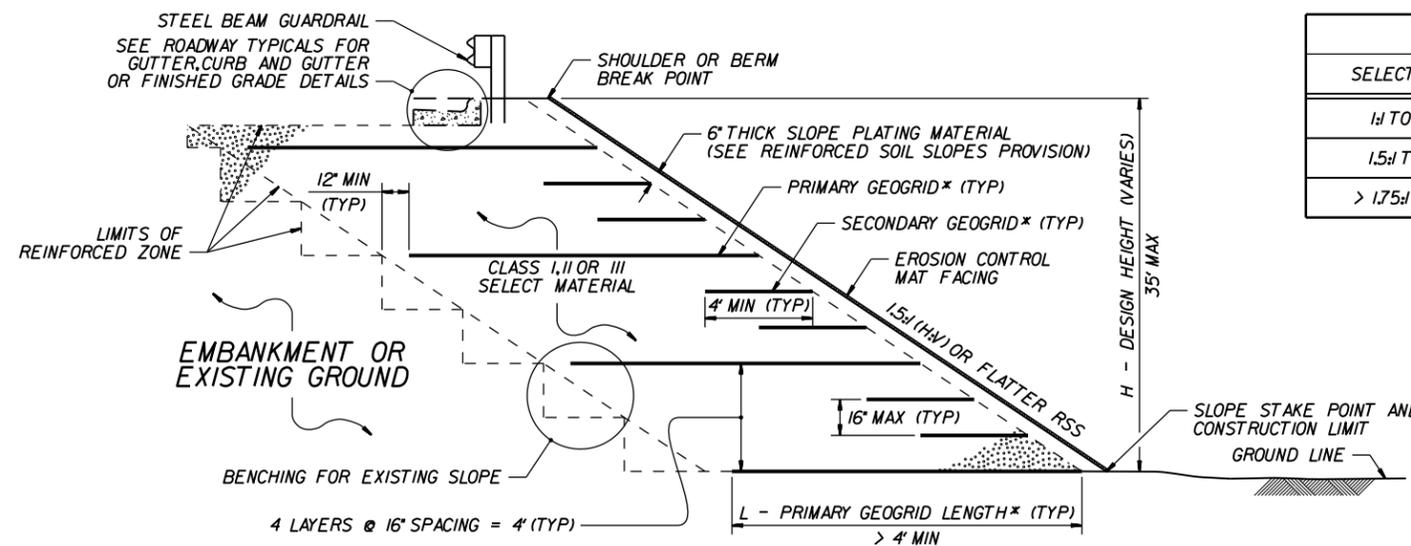


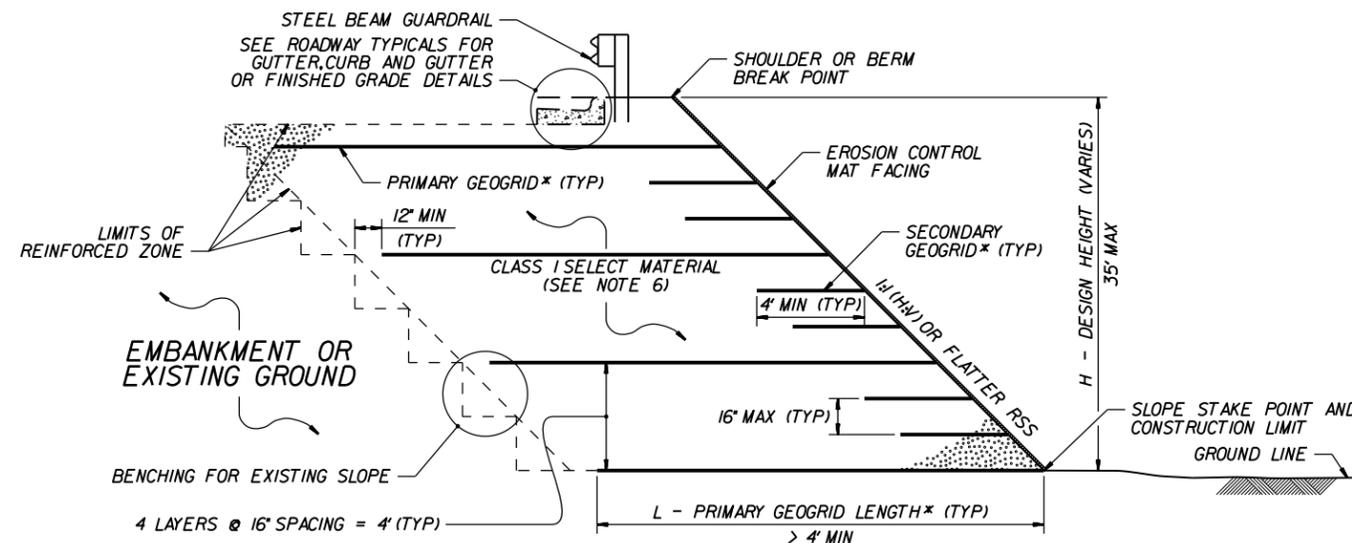
H (FT)	0 - < 10		10 - 20		> 20 - 35	
SELECT MATERIAL CLASS	I	II OR III	I	II OR III	I	II OR III
1/2 TO < 1.5/1 (H/W) RSS	1.20	SEE NOTE 6	1.10	SEE NOTE 6	1.00	SEE NOTE 6
1.5/1 TO 1.75/1 (H/W) RSS	1.15	1.00	1.05	0.95	0.95	0.90
> 1.75/1 TO < 2/1 (H/W) RSS	1.10	0.75	1.00	0.70	0.90	0.65

L/H RATIO (L > 4' MIN)
IF L ≤ 4', USE SECONDARY GEOGRID INSTEAD OF PRIMARY GEOGRID.



STANDARD RSS WITH SELECT MATERIAL THAT DOES NOT MEET ARTICLE 560-2 OF THE STANDARD SPECIFICATIONS

*SEE TABLES AND GEOGRID LAYOUT DETAILS.



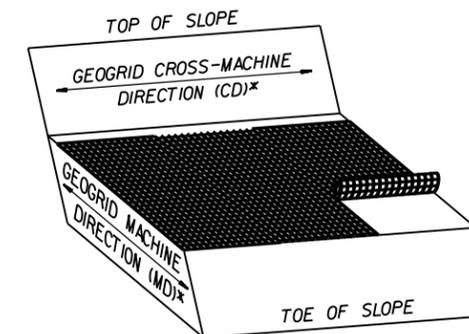
STANDARD RSS WITH SELECT MATERIAL THAT MEETS ARTICLE 560-2 OF THE STANDARD SPECIFICATIONS

*SEE TABLES AND GEOGRID LAYOUT DETAILS.

H (FT)	0 - < 10		10 - 20		> 20 - 35		
SELECT MATERIAL CLASS	I	II OR III	I	II OR III	I	II OR III	
PRIMARY GEOGRID (SUBSTITUTE SECONDARY GEOGRID FOR PRIMARY GEOGRID FOR ≥ 2/1 (H/W) RSS)	1/2 TO < 1.5/1 (H/W) RSS	2XT	SEE NOTE 6	3XT	SEE NOTE 6	5XT	
		SG150		SG200		SG350	
		SF20		SF35		SF55	
		UX1100HS		UX1400HS		UX1500HS	
1.5/1 TO 1.75/1 (H/W) RSS	2XT	2XT	3XT	2XT	3XT	2XT	
	SG150	SG150	SG200	SG150	SG200	SG150	
	SF20	SF20	SF35	SF20	SF35	SF20	
	UX1100HS	UX1100HS	UX1400HS	UX1100HS	UX1400HS	UX1100HS	
> 1.75/1 TO < 2/1 (H/W) RSS	2XT	2XT	2XT	2XT	2XT	2XT	
	SG150	SG150	SG150	SG150	SG150	SG150	
	SF20	SF20	SF20	SF20	SF20	SF20	
	UX1100HS	UX1100HS	UX1100HS	UX1100HS	UX1100HS	UX1100HS	
SECONDARY GEOGRID	1/2 (H/W) OR FLATTER RSS	2XT		2XT		2XT	
		SG150		SG150		SG150	
		SF11		SF11		SF11	
		BX1100		BX1100		BX1100	

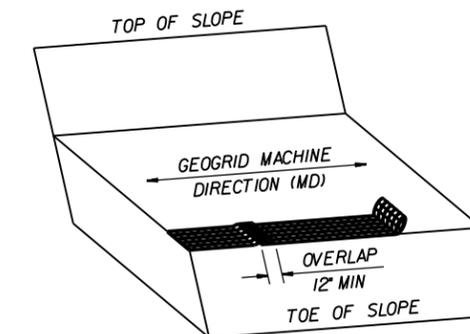
PRIMARY AND SECONDARY GEOGRIDS

#XT REFERS TO MIRAFI SERIES GEOGRID.
 SG### REFERS TO STRATAGRID SERIES GEOGRID.
 SF## REFERS TO SYNTEEN SERIES GEOGRID.
 UX####HS AND BX#### REFER TO TENSAR SERIES GEOGRID.



PRIMARY GEOGRID LAYOUT

*SEE NOTES 7 AND 8.



SECONDARY GEOGRID LAYOUT

GEOGRID LAYOUT DETAILS

NOTES:

- SEE ROADWAY PLANS FOR REINFORCED SOIL SLOPE (RSS) LOCATIONS.
- FOR STANDARD REINFORCED SOIL SLOPES, SEE REINFORCED SOIL SLOPES PROVISION. FOR EROSION CONTROL MAT FACING, SEE PERMANENT SOIL REINFORCEMENT MAT PROVISION.
- STANDARD RSS ARE BASED ON THE FOLLOWING IN-SITU ASSUMED SOIL PARAMETERS:
 UNIT WEIGHT, $\gamma = 120$ PCF
 FRICTION ANGLE, $\phi = 30$ DEGREES
 COHESION, $c = 0$ PSF
- DO NOT USE STANDARD RSS IF THE ASSUMED SOIL PARAMETERS ARE NOT APPLICABLE OR GROUNDWATER IS ABOVE EXISTING GROUND OR TOE OF SLOPE.
- DO NOT USE STANDARD RSS WHEN VERY LOOSE OR SOFT SOIL OR MUCK IS BELOW RSS.
- FOR 1/2 TO < 1.5/1 (H/W) RSS, USE CLASS I SELECT MATERIAL IN THE REINFORCED ZONE THAT MEETS ARTICLE 560-2 OF THE STANDARD SPECIFICATIONS EXCEPT FOR SELECT MATERIAL THAT MEETS AASHTO M 145 FOR SOIL CLASSIFICATIONS A-4 AND A-5. DO NOT USE A-4 OR A-5 SOIL OR CLASS II OR III SELECT MATERIAL FOR 1/2 TO < 1.5/1 (H/W) RSS.
- EXCEPT FOR TENSAR UX GEOGRIDS, DO NOT SPLICE OR OVERLAP PRIMARY GEOGRIDS IN THE MACHINE DIRECTION (MD) SO THAT SPLICES OR OVERLAPS ARE PARALLEL TO THE TOE OF SLOPE. TENSAR UX GEOGRIDS MAY BE SPLICED ONCE PER PRIMARY GEOGRID LENGTH IN ACCORDANCE WITH TENSAR'S RECOMMENDED CONNECTION DETAIL. A LENGTH OF AT LEAST 4' IS REQUIRED FOR EACH TENSAR UX GEOGRID PIECE.
- EXCEPT FOR TENSAR UX GEOGRIDS, PLACE PRIMARY GEOGRIDS SO THAT GEOGRIDS ARE ADJACENT TO EACH OTHER IN THE CROSS-MACHINE DIRECTION (CD). TENSAR UX GEOGRIDS MAY BE PLACED WITH A MAXIMUM SPACING BETWEEN GEOGRIDS OF 1.64' IN THE CD. STAGGER TENSAR UX GEOGRIDS SO THAT GEOGRIDS ARE CENTERED OVER GAPS IN THE PRIMARY GEOGRID LAYER BELOW.
- DO NOT PLACE FIRST PRIMARY GEOGRID LAYER UNTIL EXCAVATION DIMENSIONS AND IN-SITU MATERIAL ARE APPROVED.



GEOTECHNICAL ENGINEERING UNIT
 STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

STANDARD DRAWING NO. 1803.01
STANDARD REINFORCED SOIL SLOPE (RSS)
 DATE: 6-21-11