

PLANTING ZONE DESCRIPTIONS AND NOTES

ZONE 1 - LIVE STAKE PLANTINGS

LOCATION DESCRIPTION:
LOWER GRADED BANKS LOCATED BETWEEN NORMAL WATER ELEVATION AND BANKFULL ELEVATION.

APPLICATION:

1. AMEND SOIL AS DESCRIBED IN SPECIAL CONDITIONS. SOIL AMENDMENT (TOPSOIL) SHALL BE SUITABLE FOR STREAM BANK APPLICATION, SO THAT AMENDMENTS ARE RESISTANT TO FREQUENT WATER INUNDATION.
2. APPLY TEMPORARY SEED AND PERMANENT SEED MIXTURES PER TABLE 2 THIS SHEET AND THE SPECIAL PROVISIONS.
3. APPLY WHEAT STRAW MULCH PER GENERAL NOTES THIS SHEET AND THE SPECIAL PROVISIONS.
4. INSTALL COIR FIBER MATTING PER THE COIR FIBER MATTING DETAIL ON ALL NEWLY GRADED STREAM BANK SLOPES.
5. INSTALL LIVE STAKE PLANTINGS IN ACCORDANCE WITH TABLE 1, LIVE STAKE DETAIL THIS SHEET, AND THE SPECIAL PROVISIONS.

ZONE 2 - RIPARIAN PLANTINGS

LOCATION DESCRIPTION:
AREAS ABOVE BANKFULL.

APPLICATION:

1. AMEND SOIL AS DESCRIBED IN SPECIAL CONDITIONS. SOIL AMENDMENT (TOPSOIL) SHALL BE SUITABLE FOR STREAM BANK APPLICATION, SO THAT AMENDMENTS ARE RESISTANT TO FREQUENT WATER INUNDATION.
2. APPLY TEMPORARY SEED AND PERMANENT SEED MIXTURES PER TABLE 2 THIS SHEET AND THE SPECIAL PROVISIONS.
3. APPLY WHEAT STRAW MULCH PER GENERAL NOTES THIS SHEET AND THE SPECIAL PROVISIONS.
4. INSTALL COIR FIBER MATTING ON ALL NEWLY GRADED OR DISTURBED SLOPES STEEPER THAN 1%.
5. INSTALL BARE ROOT PLANTINGS IN ACCORDANCE WITH TABLE 1, BARE ROOT DETAIL THIS SHEET, AND THE SPECIAL PROVISIONS.

ZONE 3 - RIPARIAN PLANTINGS W/O BARE ROOTS

LOCATION DESCRIPTION:
AREAS ABOVE BANKFULL WHERE SEEDING ONLY OCCURS AND NO BARE ROOTS ARE TO BE PLANTED. THIS INCLUDES BERMS AND NEAR THE PRECAST GRAVITY WALL.

APPLICATION:

1. AMEND SOIL AS DESCRIBED IN SPECIAL CONDITIONS. SOIL AMENDMENT (TOPSOIL) SHALL BE SUITABLE FOR STREAM BANK APPLICATION, SO THAT AMENDMENTS ARE RESISTANT TO FREQUENT WATER INUNDATION.
2. APPLY TEMPORARY SEED AND PERMANENT SEED MIXTURES PER TABLE 2 THIS SHEET AND THE SPECIAL PROVISIONS.
3. APPLY WHEAT STRAW MULCH PER GENERAL NOTES THIS SHEET AND THE SPECIAL PROVISIONS.
4. INSTALL COIR FIBER MATTING ON ALL NEWLY GRADED OR DISTURBED SLOPES STEEPER THAN 1%.

TABLE 1: TREES AND SHRUBS PLANTING TABLE ⁴

SCIENTIFIC NAME	COMMON NAME	TYPE ¹	MIN/MAX COMPOSITION OF EACH ZONE	PLANT SPACING	
				FEET ON CENTER ²	NUMBER PER 1 ACRE ³
ZONE 1					
<i>Salix nigra</i>	Black Willow	LS	20/50	2-3	10890
<i>Sambucus canadensis</i>	Elderberry	LS	20/50		
<i>Cornus amomum</i>	Silky Dogwood	LS	20/50		
ZONE 2					
<i>Betula nigra</i>	River Birch	B	10/30	6-10	680
<i>Cornus amomum</i>	Silky Dogwood	B	10/30		
<i>Platanus occidentalis</i>	Sycamore	B	10/30		
<i>Liriodendron tulipifera</i>	Yellow poplar	B	10/30		
<i>Quercus lyrata</i>	Overcup Oak	B	10/30		
<i>Quercus phellos</i>	Willow Oak	B	10/30		
<i>Quercus michauxii</i>	Swamp Chestnut Oak	B	10/30		

1. LS = LIVE STAKE, B = BARE ROOT SEEDLING
 2. AVERAGE FEET ON CENTER SPACING
 3. AVERAGE NUMBER PER 1 ACRE OF PLANTING ZONE
 4. PLANT SPECIES TO BE PLANTED BASED ON AVAILABILITY

GENERAL NOTES

TEMPORARY PLANTING AND PERMANENT SEEDING SHALL OCCUR IMMEDIATELY AFTER CONSTRUCTION TO STABILIZE AREAS OF BARE SOIL. PERMANENT PLANTINGS SHALL BE COMPLETED BETWEEN NOVEMBER 15 AND MARCH 1. HOWEVER, PLANTING MAY OCCUR OUTSIDE THIS WINDOW AS APPROVED BY DESIGN ENGINEER.

*SEE NCDOT SPECIAL PROVISION FOR STABILIZATION REQUIREMENTS FOR TEMPORARY SEED MIX, FERTILIZER APPLICATION RATES, AND OTHER PLANTING DETAILS.

TABLE 2: PERMANENT SEED MIXTURE ¹

COMMON NAME	LBS/ACRE
AUGUST 1 - JUNE 1	
Creeping Red Fescue	18
Big Bluestem	8
Indiangrass	6
Switchgrass	4
Rye Grain	35
*Fertilizer	500
Limestone	4000
MAY 1 - SEPTEMBER 1	
Creeping Red Fescue	18
Big Bluestem	8
Indiangrass	6
Switchgrass	4
German or Browntop Millet	25
*Fertilizer	500
Limestone	4000

