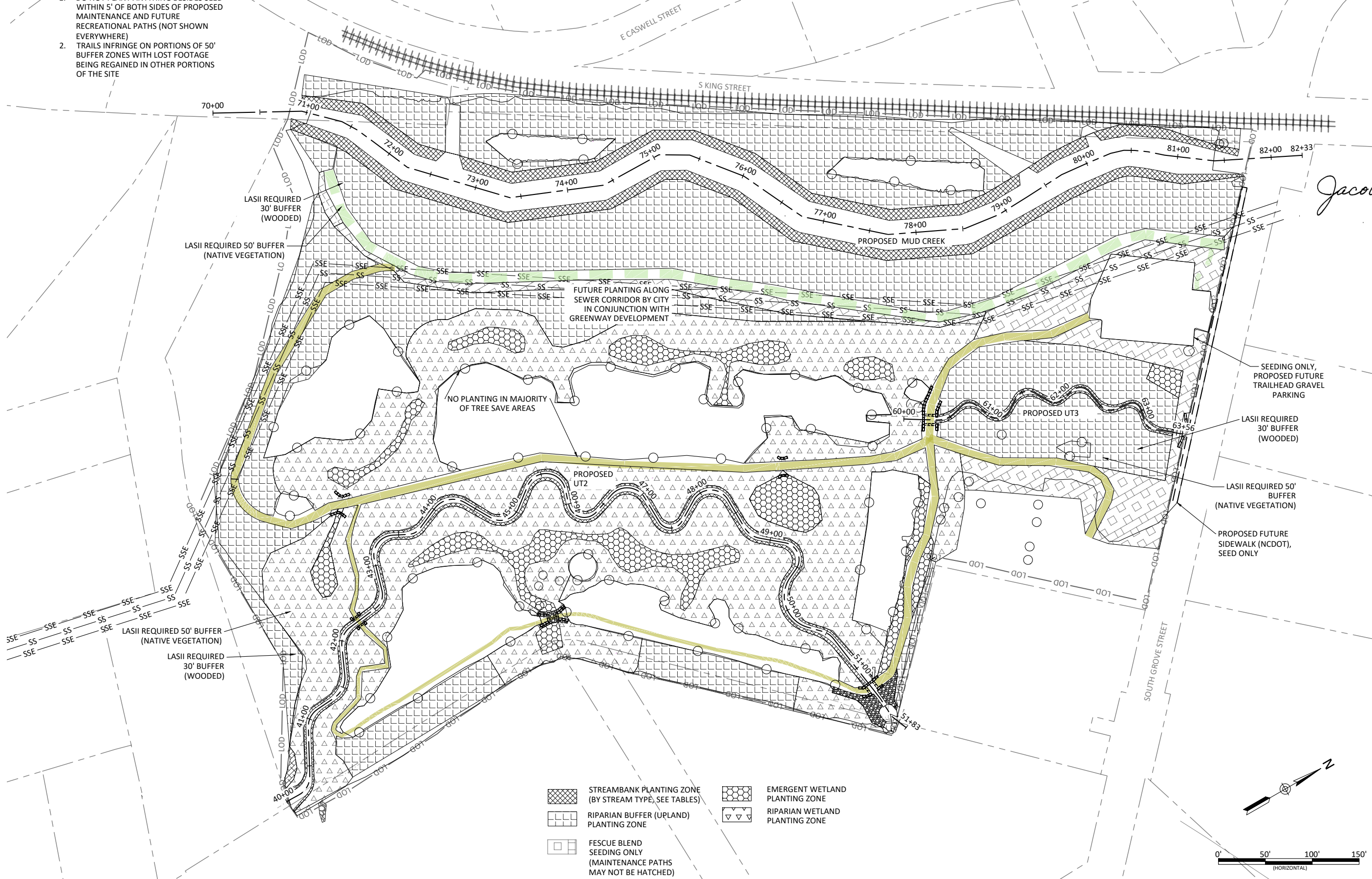


September 2, 2025
X:\Shared Projects\W21073_Lower Mud Floodplain Cadd\Plans\Brevard Church\21073-Planting Plan - BrevCh Site.dwg

NOTES:

1. DO NOT PLANT ANYTHING BESIDES SEED WITHIN 5' OF BOTH SIDES OF PROPOSED MAINTENANCE AND FUTURE RECREATIONAL PATHS (NOT SHOWN EVERYWHERE)
2. TRAILS INFRINGE ON PORTIONS OF 50' BUFFER ZONES WITH LOST FOOTAGE BEING REGAINED IN OTHER PORTIONS OF THE SITE



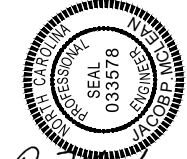
Lower Mud Creek Floodplain Restoration Project
Henderson County, North Carolina

Brevard Church Site
Planting Plan

Date:	9/2/2025
Job Number:	21073
Project Engineer:	JPM
Drawn By:	JMF, MB, KR
Checked By:	JPM

7.0.2

Sheet



Jacob P. McLean

WILDLANDS
ENGINEERING
167-B Haywood Rd
Asheville, NC 28806
Tel: 828.774.5547
License No. F-0831

Streambank Planting Zone 1- Mud Creek								
Live Stakes								
Species	Common Name	Plant Spacing	Size	Stratum	Wetland Indicator Status	% of Stems	Brevard Church Quantity	Wilson Quantity
<i>Salix nigra</i>	Black Willow	3' x 2 rows	0.5"-1.5" cal.	Canopy	OBL	50%	731	314
<i>Cornus amomum</i>	Silky Dogwood	3' x 2 rows	0.5"-1.5" cal.	Subcanopy	FACW	9%	132	56
<i>Salix sericea</i>	Silky Willow	3' x 2 rows	0.5"-1.5" cal.	Subcanopy	OBL	25%	366	157
<i>Physocarpus opulifolius</i>	Ninebark	3' x 2 rows	0.5"-1.5" cal.	Shrub	FACW	8%	117	50
<i>Alnus serrulata</i>	Buttonbush	3' x 2 rows	0.5"-1.5" cal.	Shrub	OBL	8%	117	50
sum:						100%	1462	627
Woody Containers								
<i>Xanthorhiza simplicissima</i>	Yellowroot	5 ft	Tubling - 1 Gallon	Shrub	FACW	35%	154	66
<i>Itea virginica</i>	Virginia Willow	5 ft	Tubling - 1 Gallon	Shrub	OBL	25%	110	47
<i>Amorpha fruticosa</i>	False Indigo	5 ft	Tubling - 1 Gallon	Shrub	FACW	10%	44	19
<i>Sambucus canadensis</i>	Elderberry	5 ft	Tubling - 1 Gallon	Subcanopy	FAC	15%	66	28
<i>Viburnum dentatum</i>	Arrowwood Viburnum	5 ft	Tubling - 1 Gallon	Shrub	FAC	15%	66	28
Preferred alternates- <i>Leucothoe fontanesiana</i> , <i>Viburnum nudum</i> , <i>Aronia arbutifolia</i>								
sum:						100%	439	188
Herbaceous Plugs								
<i>Juncus effusus</i>	Soft Rush	4 ft	1.0"-2.0" plug	Herb	FACW	25%	137	59
<i>Carex lurida</i>	Lurid Sedge	4 ft	1.0"-2.0" plug	Herb	OBL	15%	82	35
<i>Lobelia cardinalis</i>	Cardinal Flower	4 ft	1.0"-2.0" plug	Herb	FACW	5%	27	12
<i>Scirpus cyperinus</i>	Woolgrass	4 ft	1.0"-2.0" plug	Herb	FACW	15%	82	35
<i>Conoclinium coelestinum</i>	Blue Mistflower	4 ft	1.0"-2.0" plug	Herb	FAC	5%	27	12
<i>Carex crinita</i>	Fringed Sedge	4 ft	1.0"-2.0" plug	Herb	OBL	15%	82	35
<i>Hibiscus moscheutos</i>	Swamp Rosemallow	4 ft	1.0"-2.0" plug	Herb	OBL	5%	27	12
<i>Carex vulpinoidea</i>	Fox Sedge	4 ft	1.0"-2.0" plug	Herb	OBL	15%	82	35
sum:						100%	548	235

Streambank Planting Zone 2- Tributaries								
Live Stakes								
Species	Common Name	Plant Spacing	Size	Stratum	Wetland Indicator Status	% of Stems	Brevard Church Quantity	Wilson Quantity
<i>Cornus amomum</i>	Silky Dogwood	3-6 ft x 1 row	0.5"-1.5" cal.	Subcanopy	FACW	10%	73	31
<i>Salix sericea</i>	Silky Willow	3-6 ft x 1 row	0.5"-1.5" cal.	Subcanopy	OBL	50%	366	156
<i>Cephalanthus occidentalis</i>	Buttonbush	3-6 ft x 1 row	0.5"-1.5" cal.	Shrub	OBL	10%	73	31
<i>Physocarpus opulifolius</i>	Ninebark	3-6 ft x 1 row	0.5"-1.5" cal.	Shrub	FACW	10%	73	31
<i>Salix nigra</i>	Black Willow	3-6 ft x 1 row	0.5"-1.5" cal.	Canopy	OBL	20%	146	62
sum:						100%	732	312
Herbaceous Plugs								
<i>Juncus effusus</i>	Soft Rush	4 ft	1.0"-2.0" plug	Herb	FACW	20%	146	62
<i>Carex lurida</i>	Lurid Sedge	4 ft	1.0"-2.0" plug	Herb	OBL	20%	146	62
<i>Lobelia cardinalis</i>	Cardinal Flower	4 ft	1.0"-2.0" plug	Herb	FACW	15%	110	47
<i>Conoclinium coelestinum</i>	Blue Mistflower	4 ft	1.0"-2.0" plug	Herb	FAC	15%	110	47
<i>Carex vulpinoidea</i>	Fox Sedge	4 ft	1.0"-2.0" plug	Herb	OBL	15%	110	47
<i>Carex crinita</i>	Fringed Sedge	4 ft	1.0"-2.0" plug	Herb	OBL	15%	110	47
sum:						100%	732	312

Riparian Buffer (Upland) Planting Zone								
Upland and Terrace Planting								
Species	Common Name	Spacing	Size	Stratum	Wetland Indicator Status	% of Stems	Brevard Church Quantity	Wilson Quantity
Bare Root								
<i>Platanus occidentalis</i>	American Sycamore	9 x 12 ft	0.25"-1.0"	Canopy	FACW	10%	123	78
<i>Betula nigra</i>	River Birch	9 x 12 ft	0.25"-1.0"	Canopy	FACW	7%	86	55
<i>Acer negundo</i>	Boxelder	9 x 12 ft	0.25"-1.0"	Canopy	FAC	10%	123	78
<i>Liriodendron tulipifera</i>	Tulip Tree	9 x 12 ft	0.25"-1.0"	Canopy	FACU	10%	123	78
<i>Acer rubrum</i>	Red Maple	9 x 12 ft	0.25"-1.0"	Canopy	FAC	10%	123	78
<i>Carpinus caroliniana</i>	Ironwood	9 x 12 ft	0.25"-1.0"	Subcanopy	FAC	5%	62	39
<i>Quercus rubra</i>	Northern Red Oak	9 x 12 ft	0.25"-1.0"	Canopy	FACU	10%	123	78
<i>Quercus alba</i>	White Oak	9 x 12 ft	0.25"-1.0"	Canopy	FACU	10%	123	78
<i>Diospyros virgininiana</i>	Persimmon	9 x 12 ft	0.25"-1.0"	Canopy	FACU	10%	123	78
<i>Tilia americana</i>	American Basswood	9 x 12 ft	0.25"-1.0"	Canopy	FACU	8%	99	63
<i>Aesculus flava</i>	Yellow Buckeye	9 x 12 ft	0.25"-1.0"	Canopy	FACU	10%	123	78
sum:						100%	1231	781
Preferred alternates: <i>Betula lenta</i> , <i>Hamamelis virginiana</i>								
Container								
<i>Betula lenta</i>	Sweet Birch	12 x 18 ft	1 - 3 gallon	Canopy	OBL	10%	62	39
<i>Carpinus caroliniana</i>	Ironwood	12 x 18 ft	1 - 3 gallon	Subcanopy	FAC	5%	31	20
<i>Halesia tetraptera</i>	Mountain Silverbell	12 x 18 ft	1 - 3 gallon	Subcanopy	FAC	10%	62	39
<i>Liriodendron tulipifera</i>	Tulip Tree	12 x 18 ft	1 - 3 gallon	Canopy	FACU	5%	31	20
<i>Rhododendron arborescens</i>	Sweet Azalea	12 x 18 ft	1 - 3 gallon	Shrub	FAC	6%	37	24
<i>Hamamelis viginiana</i>	Witch Hazel	12 x 18 ft	1 - 3 gallon	Subcanopy	FACU	10%	62	39
<i>Benthamidia florida</i>	Flowering Dogwood	12 x 18 ft	1 - 3 gallon	Subcanopy	FACU	5%	31	20
<i>Ilex opaca</i>	American Holly	12 x 18 ft	1 - 3 gallon	Subcanopy	FACU	5%	31	20
<i>Clethra acuminata</i>	Mountain Sweet Pepperbush	12 x 18 ft	1 - 3 gallon	Shrub	NI	5%	31	20
<i>Asimina triloba</i>	Pawpaw	12 x 18 ft	1 - 3 gallon	Subcanopy	FAC	8%	50	32
<i>Euonymus americanus</i>	Strawberrybush	12 x 18 ft	1 - 3 gallon	Shrub	FAC	6%	37	24
<i>Physocarpus opulifolius</i>	Ninebark	12 x 18 ft	1 - 3 gallon	Shrub	FACW	5%	31	20
<i>Fagus grandifolia</i>	American Beech	12 x 18 ft	1 - 3 gallon	Canopy	FACU	10%	62	39
<i>Calycanthus floridus</i>	Sweetshrub	12 x 18 ft	1 - 3 gallon	Shrub	FACU	5%	31	20
<i>Lindera benzoin</i>	Spicebush	12 x 18 ft	1 - 3 gallon	Shrub	FAC	5%	31	20
sum:						100%	620	396
Preferred Alternates: <i>Amelanchier arborea</i> , <i>Betula nigra</i> , <i>Tilia americana</i> , <i>Vaccinium corymbosum</i>								

Jacob P. McLean



Lower Mud Creek Floodplain Restoration Project

Henderson County, North Carolina

Planting Tables 1
Planting Plan

Revisions:	

Date:	9/2/2025
Job Number:	20373
Project Engineer:	JPM
Drawn By:	JMF, MB, KB
Checked By:	JPM

Riparian Wetland Planting Zone								
Species	Common Name	Spacing	Size	Stratum	Wetland Indicator Status	% of Stems	Brevard Church Quantity	Wilson Quantity
Bare Root (66.67% OF TOTAL ZONE)								
<i>Platanus occidentalis</i>	American Sycamore	9 x 12 ft	0.25"-1.0"	Canopy	FACW	12%	135	62
<i>Betula nigra</i>	River Birch	9 x 12 ft	0.25"-1.0"	Canopy	FACW	11%	124	57
<i>Acer negundo</i>	Boxelder	9 x 12 ft	0.25"-1.0"	Canopy	FAC	10%	113	52
<i>Alnus serrulata</i>	Tag Alder	9 x 12 ft	0.25"-1.0"	Subcanopy	OBL	10%	113	52
<i>Acer rubrum</i>	Red Maple	9 x 12 ft	0.25"-1.0"	Canopy	FAC	10%	113	52
<i>Salix nigra</i>	Black Willow	9 x 12 ft	0.25"-1.0"	Canopy	OBL	12%	135	62
<i>Carpinus caroliniana</i>	Ironwood	9 x 12 ft	0.25"-1.0"	Subcanopy	FAC	6%	68	31
<i>Salix sericea</i>	Silky Willow	9 x 12 ft	0.25"-1.0"	Subcanopy	OBL	11%	124	57
<i>Swida amomum</i>	Silky Dogwood	9 x 12 ft	0.25"-1.0"	Subcanopy	FACW	10%	113	52
<i>Cephalanthus occidentalis</i>	Buttonbush	9 x 12 ft	0.25"-1.0"	Shrub	OBL	8%	90	41
sum:						100%	1128	518
Container (33.33% OF TOTAL ZONE)								
<i>Alnus serrulata</i>	Tag Alder	12 x 18 ft	1 - 3 gallon	Subcanopy	OBL	6%	17	8
<i>Carpinus caroliniana</i>	Ironwood	12 x 18 ft	1 - 3 gallon	Subcanopy	FAC	5%	15	7
<i>Cephalanthus occidentalis</i>	Buttonbush	12 x 18 ft	1 - 3 gallon	Shrub	OBL	5%	15	7
<i>Rhododendron viscosum</i>	Swamp Azalea	12 x 18 ft	1 - 3 gallon	Shrub	FACW	10%	29	13
<i>Aronia arbutifolia</i>	Red Chokeberry	12 x 18 ft	1 - 3 gallon	Shrub	FACW	8%	23	11
<i>Vaccinium corymbosum</i>	Highbush Blueberry	12 x 18 ft	1 - 3 gallon	Shrub	FACW	8%	23	11
<i>Viburnum nudum</i>	Possumhaw Viburnum	12 x 18 ft	1 - 3 gallon	Shrub	OBL	10%	29	13
<i>Itea virginica</i>	Virginia Willow	12 x 18 ft	1 - 3 gallon	Shrub	OBL	8%	23	11
<i>Sambucus canadensis</i>	Elderberry	12 x 18 ft	1 - 3 gallon	Shrub	FAC	5%	15	7
<i>Spiraea alba</i>	Narrowleaf Meadowsweet	12 x 18 ft	1 - 3 gallon	Shrub	FACW	8%	23	11
<i>Physocarpus opulifolius</i>	Ninebark	12 x 18 ft	1 - 3 gallon	Shrub	FACW	10%	29	13
<i>Ilex verticillata</i>	Winterberry	12 x 18 ft	1 - 3 gallon	Shrub	FACW	12%	34	16
<i>Lindera benzoin</i>	Spicebush	12 x 18 ft	1 - 3 gallon	Shrub	FAC	5%	15	7
sum:						100%	290	135

Emergent Wetland Planting Zone								
Species	Common Name	Spacing	Size	Stratum	Wetland Indicator Status	% of Stems	Brevard Church Quantity	Wilson Quantity
Live Stake								
<i>Salix nigra</i>	Black Willow	3 ft	0.25"-1.0"	Canopy	OBL	8%	40	25
<i>Salix sericea</i>	Silky Willow	3 ft	0.25"-1.0"	Subcanopy	OBL	10%	50	31
<i>Swida amomum</i>	Silky Dogwood	3 ft	0.25"-1.0"	Subcanopy	FACW	8%	40	25
<i>Cephalanthus occidentalis</i>	Buttonbush	3 ft	0.25"-1.0"	Shrub	OBL	8%	40	25
sum:							170	106
Container								
<i>Alnus serrulata</i>	Tag Alder	3 ft	1 - 3 gallon	Subcanopy	OBL	10%	50	31
<i>Cephalanthus occidentalis</i>	Buttonbush	3 ft	1 - 3 gallon	Shrub	OBL	8%	40	25
<i>Rhododendron viscosum</i>	Swamp Azalea	3 ft	1 - 3 gallon	Shrub	FACW	8%	40	25
<i>Aronia arbutifolia</i>	Red Chokeberry	3 ft	1 - 3 gallon	Shrub	FACW	8%	40	25
<i>Viburnum nudum</i>	Possumhaw Viburnum	3 ft	1 - 3 gallon	Shrub	OBL	8%	40	25
<i>Itea virginica</i>	Virginia Willow	3 ft	1 - 3 gallon	Shrub	OBL	8%	40	25
<i>Spiraea alba</i>	Narrowleaf Meadowsweet	3 ft	1 - 3 gallon	Shrub	FACW	8%	40	25
<i>Ilex verticillata</i>	Winterberry	3 ft	1 - 3 gallon	Shrub	FACW	8%	40	25
						100%		
sum:							330	206
Herbaceous Plugs								
Species	Common Name	Spacing	Size	Placement	Wetland Indicator Status	Planting Rate	Brevard Church Quantity	Wilson Quantity
<i>Peltandra virginica</i>	Arrow Arum	1 ft	1.0"-2.0" plug	Shallow Water	OBL	10%	398	243
<i>Pontederia cordata</i>	Pickereel Weed	1 ft	1.0"-2.0" plug	Shallow Water	OBL	10%	398	243
<i>Sagittaria latifolia</i>	Duck Potato	1 ft	1.0"-2.0" plug	Shallow Water	OBL	10%	398	243
<i>Scirpus cyperinus</i>	Woolgrass	1 ft	1.0"-2.0" plug	Shallow Water	FACW	10%	398	243
<i>Schoenoplectus tabernaemontani</i>	Softstem Bulrush	1 ft	1.0"-2.0" plug	Shallow Water	OBL	10%	398	243
<i>Juncus effusus</i>	Soft Rush	1 ft	1.0"-2.0" plug	Intermittently Flooded	FACW	9%	358	219
<i>Hibiscus moscheutos</i>	Swamp Rosemallow	1 ft	1.0"-2.0" plug	Intermittently Flooded	OBL	5%	199	122
<i>Carex crinita</i>	Fringed Sedge	1 ft	1.0"-2.0" plug	Intermittently Flooded	OBL	9%	358	219
<i>Carex lurida</i>	Lurid Sedge	1 ft	1.0"-2.0" plug	Intermittently Flooded	OBL	10%	398	243
<i>Carex scoparia</i>	Broom Sedge	1 ft	1.0"-2.0" plug	Intermittently Flooded	FACW	9%	358	219
<i>Carex stricta</i>	Upright Sedge	1 ft	1.0"-2.0" plug	Intermittently Flooded	OBL	8%	318	195
Clusters of 10 plugs of the same species planted on 1' centers. Edges of clusters will be 5' apart.						100%	3972	2428
sum:							7951	4860
Intermittently flooded- clusters of 5 plugs of the same species planted on 1' centers. Planting shall occur 6" above and below pool bank. Edges of clusters shall be 5' apart								
Shallow Water- clusters of 10 plugs of the same species planted on 1' centers. Edges of clusters shall be 10' apart. Planting shall occur +/- 3" below top of pool bank.								

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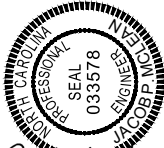
Lower Mud Creek Floodplain Restoration Project

Henderson County, North Carolina

Planting Tables 2
Planting Plan

Revisions:	

Date:	9/2/2025
Job Number:	20373
Project Engineer:	JPM
Drawn By:	JMF, MB, KB
Checked By:	JPM



Tree Mound Planting Zone								
Species	Common Name	Spacing	Size	Stratum	Wetland Indicator Status	% of Stems	Brevard Church Quantity	Wilson Quantity
Container								
<i>Platanus occidentalis</i>	Sycamore	3 - 5 ft	1 - 3 gallon	Canopy	FACW	10%	11	9
<i>Acer rubrum</i>	Red Maple	3 - 5 ft	1 - 3 gallon	Canopy	FAC	10%	11	9
<i>Salix sericea</i>	Silky Willow	3 - 5 ft	1 - 3 gallon	Subcanopy	OBL	10%	11	9
<i>Alnus serrulata</i>	Tag Alder	3 - 5 ft	1 - 3 gallon	Subcanopy	OBL	10%	11	9
<i>Viburnum nudum</i>	Possumhaw Viburnum	3 - 5 ft	1 - 3 gallon	Shrub	OBL	20%	33	26
<i>Ilex verticillata</i>	Winterberry	3 - 5 ft	1 - 3 gallon	Shrub	FACW	20%	33	26
<i>Rhododendron viscosum</i>	Swamp Azalea	3 - 5 ft	1 - 3 gallon	Shrub	FACW	20%	33	26
sum:						100%	143	114

Forested Wetland Planting Zone							
Species	Common Name	Plant Spacing	Size	Stratum	Wetland Indicator Status	% of Stems	Wilson - Quantity
Container							
<i>Platanus occidentalis</i>	American Sycamore	See detail	1 - 3 gallon	Canopy	FACW	10%	42
<i>Betula nigra</i>	River Birch	See detail	1 - 3 gallon	Canopy	FACW	10%	42
<i>Acer rubrum</i>	Red Maple	See detail	1 - 3 gallon	Canopy	FAC	10%	42
<i>Alnus serrulata</i>	Tag Alder	See detail	1 - 3 gallon	Subcanopy	OBL	10%	42
<i>Swida amomum</i>	Silky Dogwood	See detail	1 - 3 gallon	Subcanopy	FACW	10%	42
<i>Carpinus caroliniana</i>	Ironwood	See detail	1 - 3 gallon	Subcanopy	FAC	10%	42
<i>Leucothoe fontanesiana</i>	Mountain Doghobble	See detail	1 - 3 gallon	Shrub	FACW	6%	25
<i>Aronia arbutifolia</i>	Red Chokeberry	See detail	1 - 3 gallon	Shrub	FACW	6%	25
<i>Vaccinium corymbosum</i>	Highbush Blueberry	See detail	1 - 3 gallon	Shrub	FACW	6%	25
<i>Viburnum nudum</i>	Possumhaw Viburnum	See detail	1 - 3 gallon	Shrub	OBL	6%	25
<i>Itea virginica</i>	Virginia Willow	See detail	1 - 3 gallon	Shrub	OBL	6%	25
<i>Ilex verticillata</i>	Winterberry	See detail	1 - 3 gallon	Shrub	FACW	6%	25
<i>Rhododendron viscosum</i>	Swamp Azalea	See detail	1 - 3 gallon	Shrub	FACW	4%	17
sum:						100%	419
Ten clusters will be planted per acre with at least 30 between each cluster. Each cluster shall consist of 10 plants on 4 - 8' centers in a roughly circular shape. Cluster shape and plant spacing can be adapted based on existing vegetation. Each cluster will have 3 canopy trees, 3 subcanopy trees, and 4 shrubs.							

Power Line ROW Planting Zone							
Species	Common Name	Spacing	Size	Stratum	Wetland Indicator Status	% of Stems	Wilson Quantity
Live Stake							
<i>Swida amomum</i>	Silky Dogwood	4 x 4 ft	0.25"-1.0"	Subcanopy	FACW	20%	84
<i>Sambucus canadensis</i>	Elderberry	4 x 4 ft	0.25"-1.0"	Shrub	FAC	20%	84
<i>Physocarpus opulifolius</i>	Ninebark	4 x 4 ft	0.25"-1.0"	Shrub	FACW	20%	84
<i>Salix sericea</i>	Silky Willow	4 x 4 ft	0.25"-1.0"	Subcanopy	OBL	20%	84
<i>Cephalanthus occidentalis</i>	Buttonbush	4 x 4 ft	0.25"-1.0"	Shrub	OBL	20%	84
Sum:						100%	420
Clusters of 15 stems planted on 4' centers in roughly a circular shape. Edges of clusters will be 35' apart. Each cluster will be about 16' in diameter.							



Jacob P. McLean

Lower Mud Creek Floodplain Restoration Project

Henderson County, North Carolina

Planting Tables 3
Planting Plan

Revisions:	

Date:	9/2/2025
Job Number:	20373
Project Engineer:	JPM
Drawn By:	JMF, MB, KB
Checked By:	JPM

Erosion Control Seed Mix				
Pure Live Seed				
Approved Dates	Species Name	Common Name	Stratum	Density (lbs/acre)
Aug 15 - May 14	<i>Secale cereale</i>	Rye Grain	Herb	150
May 15 - Aug 15	<i>Fagopyrum esculentum</i>	Buckwheat	Herb	30
May 15 - Aug 15	<i>Urochloa ramosa</i>	Browntop Millet	Herb	50
Aug 15- May 31	<i>Trifolium incarnatum</i>	Crimson Clover	Herb	5
Aug 15- May 31	<i>Trifolium repens</i>	White Ladino Clover	Herb	5

Fescue Blend Seed Mix		
Pure Live Seed		
Common Name	Stratum	Density (%)
Crossfire 4 Tall Fescue	Herb	29.9
Foxhound Tall Fescue	Herb	29.6
Houndog Tall Fescue	Herb	19.98
Fayette Tall Fescue	Herb	10.82
Night Crawler Tall Fescue	Herb	9.7

Riparian Buffer (Upland) Seed Mix					
Pure Live Seed (20 lbs/acre) Use Mix in Riparian Buffer (Upland) Planting Zone					
Approved Dates	Species Name	Common Name	Stratum	Wetland Indicator Status	Density (lbs/acre) 20.0
All Year	<i>Elymus virginicus</i>	Virginia wildrye	Herb	FACW	3
All Year	<i>Dichanthelium clandestinum</i>	deertongue	Herb	FAC	2.8
All Year	<i>Schizachyrium scoparium</i>	little bluestem	Herb	FACU	2
All Year	<i>Panicum dichotomiflorum</i>	smooth panicgrass	Herb	FACW	1.5
All Year	<i>Chamaecrista fasciculata</i>	partridge pea	Herb	FACU	1
All Year	<i>Coreopsis lanceolata</i>	lanceleaf coreopsis	Herb	FACU	1
All Year	<i>Panicum virgatum</i>	switchgrass	Herb	FAC	1
All Year	<i>Rudbeckia hirta</i>	blackeyed susan	Herb	FACU	1
All Year	<i>Sorghastrum nutans</i>	indiangrass	Herb	FACU	1
All Year	<i>Elymus riparius</i>	riverbank wildrye	Herb	FACW	1
All Year	<i>Tripsacum dactyloides</i>	Eastern gamagrass	Herb	FACW	1
All Year	<i>Andropogon gerardii</i>	big bluestem	Herb	FAC	0.5
All Year	<i>Elymus hystrix</i>	bottlebrush grass	Herb	UPL	0.5
All Year	<i>Senna hebecarpa</i>	wild senna	Herb	FAC	0.5
All Year	<i>Zizia aurea</i>	golden alexanders	Herb	FAC	0.5
All Year	<i>Chasmanthium latifolium</i>	river oats	Herb	FACU	0.3
All Year	<i>Heliopsis helianthoides</i>	oxeye sunflower	Herb	FACU	0.3
All Year	<i>Asclepias syriaca</i>	common milkweed	Herb	FACU	0.3
All Year	<i>Bidens arisota</i>	showy tickseed sunflower	Herb	FACW	0.3
All Year	<i>Rudbeckia triloba</i>	brown eyed susan	Herb	FACU	0.2
All Year	<i>Achillea millefolium</i>	common yarrow	Herb	FACU	0.1
All Year	<i>Juncus tenuis</i>	path rush	Herb	FAC	0.1
All Year	<i>Pycnanthemum tenuifolium</i>	narrowleaf mountainmint	Herb	FACW	0.1

Riparian Wetland Seed Mix					
Pure Live Seed (20 lbs/acre) Use Mix in Riparian Wetland Planting Zone and Streambank Planting Zones					
Approved Dates	Species Name	Common Name	Stratum	Wetland Indicator Status	Density (lbs/acre) 20.0
All-Year	<i>Elymus virginicus</i>	Virginia Wildrye	Herb	FACW	4
All-Year	<i>Panicum dichotomiflorum</i>	Smooth Panicgrass	Herb	FACW	3
All-Year	<i>Elymus riparius</i>	Riverbank Wildrye	Herb	FACW	2.5
All-Year	<i>Dichanthelium clandestinum</i>	Deertongue	Herb	FAC	2
All-Year	<i>Tripsacum dactyloides</i>	Eastern Gamagrass	Herb	FACW	1.5
All-Year	<i>Carex vulpinoidea</i>	Fox Sedge	Herb	OBL	1
All-Year	<i>Panicum virgatum</i>	Switchgrass	Herb	FAC	1
All-Year	<i>Schizachyrium scoparium</i>	Little Bluestem	Herb	FACU	1
All-Year	<i>Helianthus angustifolius</i>	Swamp Sunflower	Herb	FACW	0.7
All-Year	<i>Panicum anceps</i>	Beaked Panicgrass	Herb	FAC	0.7
All-Year	<i>Bidens arisota</i>	Showy Tickseed Sunflower	Herb	FACW	0.5
All-Year	<i>Senna hebecarpa</i>	Wild Senna	Herb	FAC	0.5
All-Year	<i>Juncus effusus</i>	Soft Rush	Herb	FACW	0.4
All-Year	<i>Carex lupulina</i>	Hop Sedge	Herb	OBL	0.2
All-Year	<i>Carex lurida</i>	Lurid Sedge	Herb	OBL	0.2
All-Year	<i>Verbena hastata</i>	Blue Vervain	Herb	FACW	0.2
All-Year	<i>Asclepias incarnata</i>	Swamp Milkweed	Herb	OBL	0.1
All-Year	<i>Eupatorium perfoliatum</i>	Boneset	Herb	FACW	0.1
All-Year	<i>Ilex verticillata</i>	Winterberry	Shrub	FACW	0.1
All-Year	<i>Pycnanthemum tenuifolium</i>	Narrowleaf Mountainmint	Herb	FACW	0.1
All-Year	<i>Scirpus cyperinus</i>	Woolgrass	Herb	FACW	0.1
All-Year	<i>Sisyrinchium angustifolium</i>	Blue Eyed Grass	Herb	FACW	0.1

Emergent Wetland Seed Mix					
Pure Live Seed (10 lbs/acre) Use Mix in Emergent Wetland Planting Zones					
Approved Dates	Species Name	Common Name	Stratum	Wetland Indicator Status	Density (lbs/acre) 10.0
All-Year	<i>Peltandra virginica</i>	Arrow Arum	Herb	OBL	2
All-Year	<i>Carex vulpinoidea</i>	Fox Sedge	Herb	OBL	1.9
All-Year	<i>Elymus riparius</i>	Riverbank Wildrye	Herb	FACW	1
All-Year	<i>Elymus virginicus</i>	Virginia Wildrye	Herb	FACW	1
All-Year	<i>Carex lupulina</i>	Hop Sedge	Herb	OBL	0.5
All-Year	<i>Carex lurida</i>	Lurid Sedge	Herb	OBL	0.5
All-Year	<i>Juncus effusus</i>	Soft Rush	Herb	FACW	0.5
All-Year	<i>Pontederia cordata</i>	Pickernelweed	Herb	OBL	0.5
All-Year	<i>Bidens arisota</i>	Showy Tickseed Sunflower	Herb	FACW	0.3
All-Year	<i>Carex crinita</i>	Fringed Sedge	Herb	OBL	0.3
All-Year	<i>Ilex verticillata</i>	Winterberry	Shrub	FACW	0.3
All-Year	<i>Hibiscus moschuetos</i>	Crimsoneyed Marshmallow	Herb	OBL	0.3
All-Year	<i>Helianthus angustifolius</i>	Swamp Sunflower	Herb	FACW	0.2
All-Year	<i>Sagittaria latifolia</i>	Duck Potato	Herb	OBL	0.2
All-Year	<i>Scirpus cyperinus</i>	Woolgrass	Herb	FACW	0.1
All-Year	<i>Schoenoplectus tabernaemontani</i>	Softstem Bulrush	Herb	OBL	0.1
All-Year	<i>Verbena hastata</i>	Blue Vervain	Herb	FACW	0.1
All-Year	<i>Vernonia noveboracensis</i>	New York Ironweed	Herb	FACW	0.1
All-Year	<i>Eupatorium perfoliatum</i>	Boneset	Herb	FACW	0.05
All-Year	<i>Eutrochium fistulosum</i>	Hollow Joe Pye Weed	Herb	FACW	0.05

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Project Engineer:	JPM			
Drawn By:	JMF, MB, KB			
Checked By:	JPM			

7.4

Sheet

Lower Mud Creek Floodplain Restoration Project
Henderson County, North Carolina

Planting Tables 4
Planting Plan



Jacob P. McLean