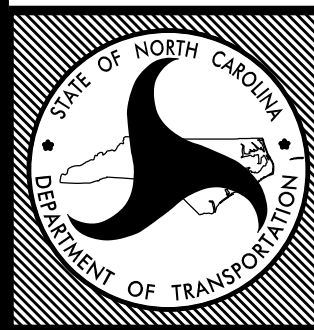


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numbers appear on each page, on the dates appearing
with their signature on that page.**

**This file or an individual page
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A-0009CB Land Bridge Enhancements & Aesthetics
Graham County, North Carolina
Over NC 143 between SR 1282 & NC 28



PROJECT: A-0009 CB

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PROPOSED ROADSIDE ENVIRONMENTAL LANDSCAPE DESIGN & AESTHETICS PROJECT



Project Location:
Graham County
Over NC 143 between
SR 1282 & NC 28

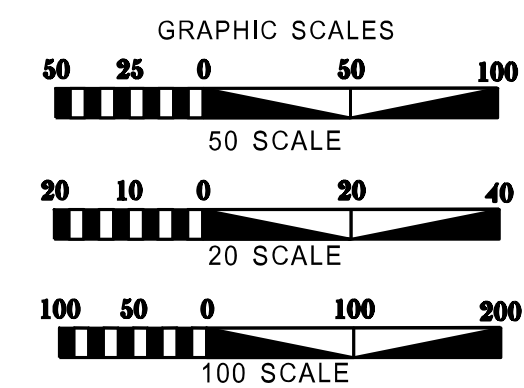
CONVENTIONAL SYMBOLS

County Line	---
City or Town Line	---
Exist. Right of Way Line Marker	—▲—
Prop. Right of Way Line Marker (By Others)	—▲—
Prop Right of Way Line Marker (By Contract)	—▲—
Exist. Control of Access Line	—(X)—
Prop. Control of Access Line	—(X)—
Property Line	—E—E—E—
Easement Line	—E—E—E—
Slope Stake Line	—+—+—+—
Exist. Fence	—+—+—+—
Prop. Woven Wire Fence	—+—+—+—
Prop. Chain Link Fence	—+—+—+—
Exist. Road	—=—=—=—
Prop. Road	—=—=—=—
Guardrail	—+—+—+—
Survey Line	—+—+—+—
Denotes Line Equality	—+—+—+—
Bridge	—+—+—+—
Culvert	—+—+—+—
Railroad	—+—+—+—
Woods	—+—+—+—
Exist. Telephone Pole	—+—+—+—
Prop. Telephone Pole	—+—+—+—
Tower Pole and Line	—+—+—+—
Exist. Power Pole	—+—+—+—
Prop. Power Pole	—+—+—+—
Sanitary Sewer Line	—+—+—+—
Water Line	—+—+—+—
Gas Line	—+—+—+—
Picnic Shelter	—+—+—+—
Regeneration	—+—+—+—
Reforestation	—+—+—+—
Large Deciduous Tree	—+—+—+—
Evergreen Tree	—+—+—+—
Small or Flowering Tree	—+—+—+—
Shrubs	—+—+—+—
Planting Bed	—+—+—+—

Summary of Quantities

QUANTITY	UNIT	KEY	BOTANICAL NAME	COMMON NAME	FURNISH	
Small Flowering Trees (LARGE)						
9	EA	AAL	Amelanchier arborea	Serviceberry	2-2 1/2" Cal., 8-10', B&B, Specimen	As Shown
17	EA	ASL	Aralia spinosa	Devil's-Walking-Stick	2-2 1/2" Cal., 8-10', B&B, Specimen	As Shown
12	EA	CPL	Crataegua phaenopyrum	Washington Hawthorne	2-2 1/2" Cal., 8-10', B&B, Specimen	As Shown
9	EA	OAL			2-2 1/2" Cal., 8-10', B&B, Specimen	As Shown
Small Flowering Trees (SMALL)						
21	EA	AA	Amelanchier arborea	Serviceberry		
9	EA	CC	Cercis canadensis	Redbud	#5 CONT.	As Shown
12	EA	CV	Chionathus virginicus	Fringe Tree	#5 CONT.	As Shown
26	EA	CP	Crataegua phaenopyrum	Washington Hawthorne	#5 CONT.	As Shown
3	EA	HT			#5 CONT.	As Shown
16	EA	OA				
Deciduous Trees (LARGE)						
12	EA	AFL	Aesculus flava	Yellow Buckeye	2 1/2-3" Cal., 14-16', B&B, Specimen	As Shown
12	EA	FGL	Fagus grandifolia	American Beech	2 1/2-3" Cal., 14-16', B&B, Specimen	As Shown
10	EA	QAL	Quercus alba	White Oak	2 1/2-3" Cal., 14-16', B&B, Specimen	As Shown
15	EA	QCL	Quercus coccinea	Scarlet Oak	2 1/2-3" Cal., 14-16', B&B, Specimen	As Shown
Shrubs / Native Grass and Perennial Varieties						
120	EA	CF	Calycanthus floridus	Sweet Shrub	#3 Cont.	As Shown
120	EA	CA	Clethra acuminata	Mountain Pepperbush	#3 Cont.	As Shown
20	EA	CS	Cornus amomum	Silky Dogwood	#3 Cont.	As Shown
303	EA	DS	Diervilla sessilifolia	Bush Honeysuckle	#3 Cont.	As Shown
330	EA	IW	Ilex verticillata	Winterberry	#3 Cont.	As Shown
115	EA	IV	Itea virginica	Virginia Sweetspire	#3 Cont.	As Shown
85	EA	RF	Rhododendron calendulaceum	Flame Azalea	#3 Cont.	As Shown
150	EA	RC	Rubus canadensis	Blackberry	#3 Cont.	As Shown
328	EA	SC	Sambucus canadensis	Elderberry	#3 Cont.	As Shown
10	EA	VC	Vaccinium corymbosum	Smooth Highbush Blueberry	#3 Cont.	As Shown
5	EA	VP	Viburnum prunifolium	Black haw	#3 Cont.	As Shown
Descriptions						
12	EA	SP	Establishment			
300	CY	1670	Mulch for Planting			
1700	SY	1670	Post-Emergence Herbicidal Treatment for Plant Beds			
1700	SY	1660	Pre-Emergence Plant Bed Herbicide Treatment			
2800	CY	SP	Planter Soil Mix			
100	M/G	1670	Water for Planting			
1100	CY	SP	Topsoil			
1	LS	SP	Landscape Grading			
39	EA	SP	Boulders			

T.I.P. #	STATE PROJECT #	SHEET #	SHEET #
A-0009CB	0000000.000	L1	10
FED. PROJ. #	DESCRIPTION	DIVISION	
00000.000.000	Graham County, North Carolina Over NC 143 between SR 1282 & NC 28	14	



Designed By: Jeff Lackey 6/2022

REVISIONS	
DATE	DESCRIPTION

INDEX OF (L) SHEETS:

L1-TITLE SHEET
L2-PLANTING DETAILS
L3-SHEET LAYOUT PLAN / SYMBOLOGY
L4-SITE LAYOUT PLAN
L5-LANDSCAPE PLAN-LANDSCAPE LAYOUT
L6-LANDSCAPE PLANTING PLAN-LARGE TREES
L7-LANDSCAPE PLANTING PLAN-SHRUBS
L8-LANDSCAPE PLANTING PLAN-SMALL TREES
L9-LANDSCAPE PLANTING PLAN-PLANTERS
L10-LANDSCAPE PLANTING PLAN-PLANTERS

STATE OF
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

LOCATION: A-0009 Land Bridge Enhancements & Aesthetics Graham County, North Carolina
Over NC 143 between SR 1282 & NC 28

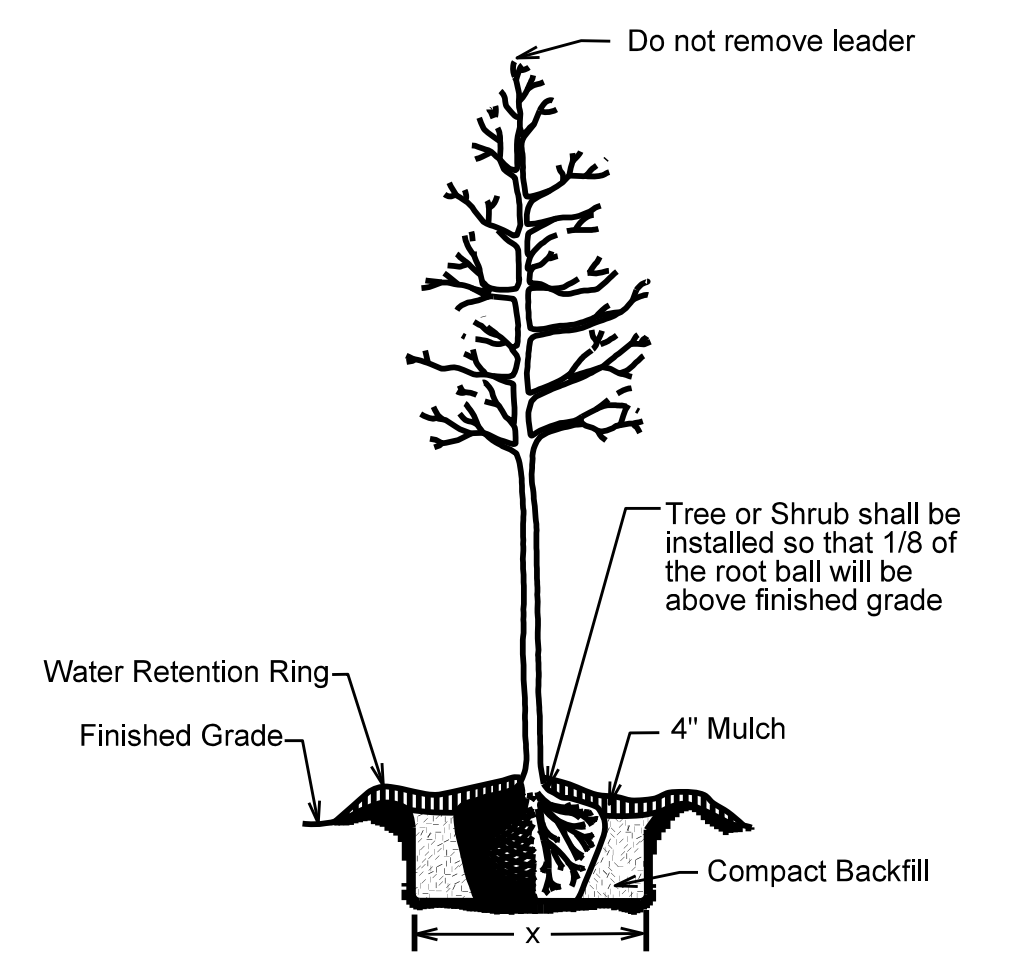
TYPE of WORK: LANDSCAPE Design & Development

COUNTY: **GRAHAM COUNTY**

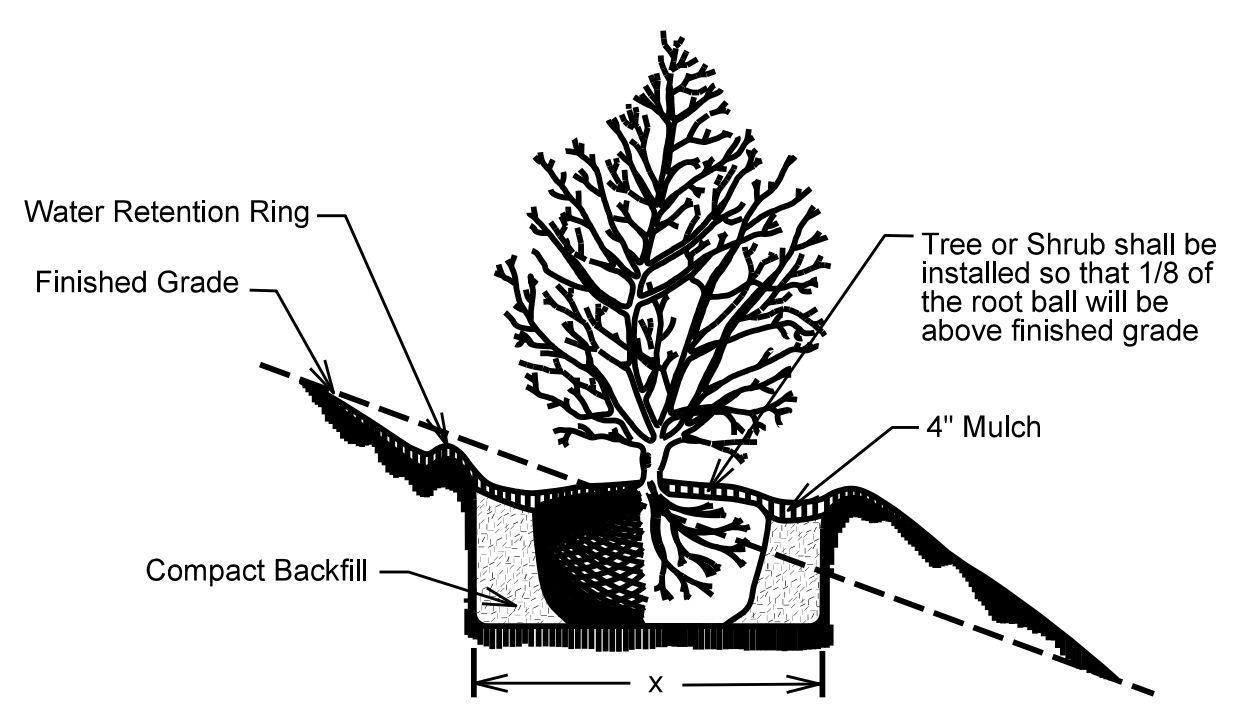
2018 STANDARD SPECIFICATIONS

PREPARED IN THE OFFICE OF:
NCDOT- ROADSIDE ENVIRONMENTAL UNIT
DESIGN & DEVELOPMENT SECTION
1557 MAIL SERVICE CENTER
RALEIGH NC 27699 919-707-2920

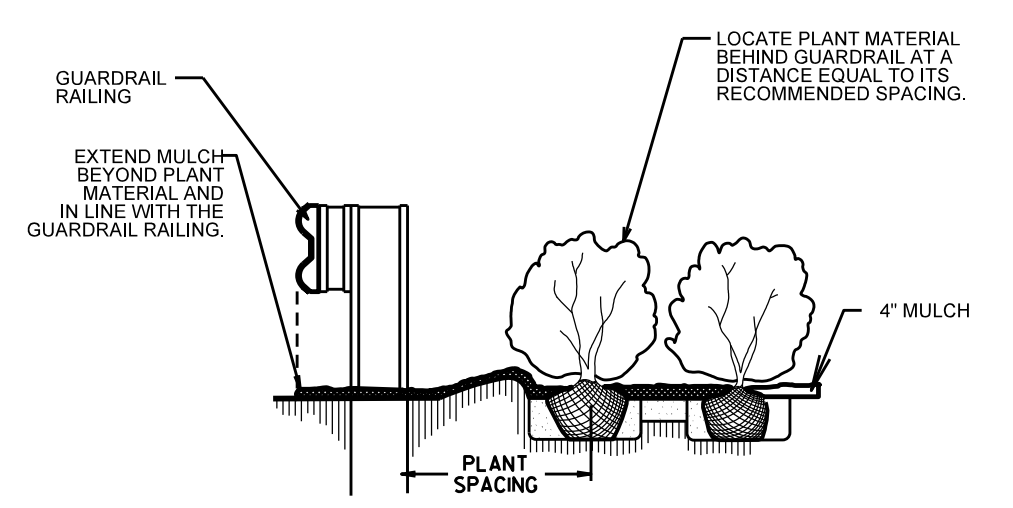
07/09/97



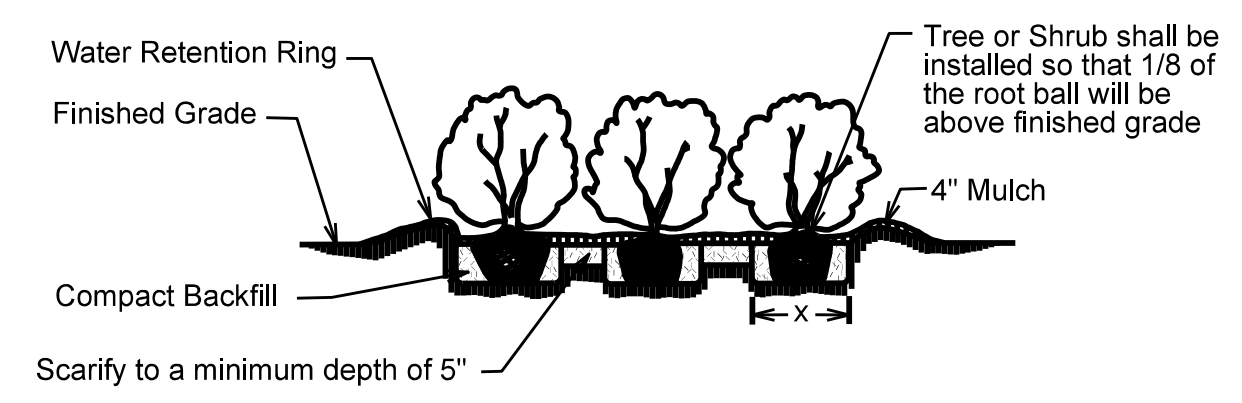
TREE OR SHRUB PLANTING DETAIL
(LEVEL GROUND)



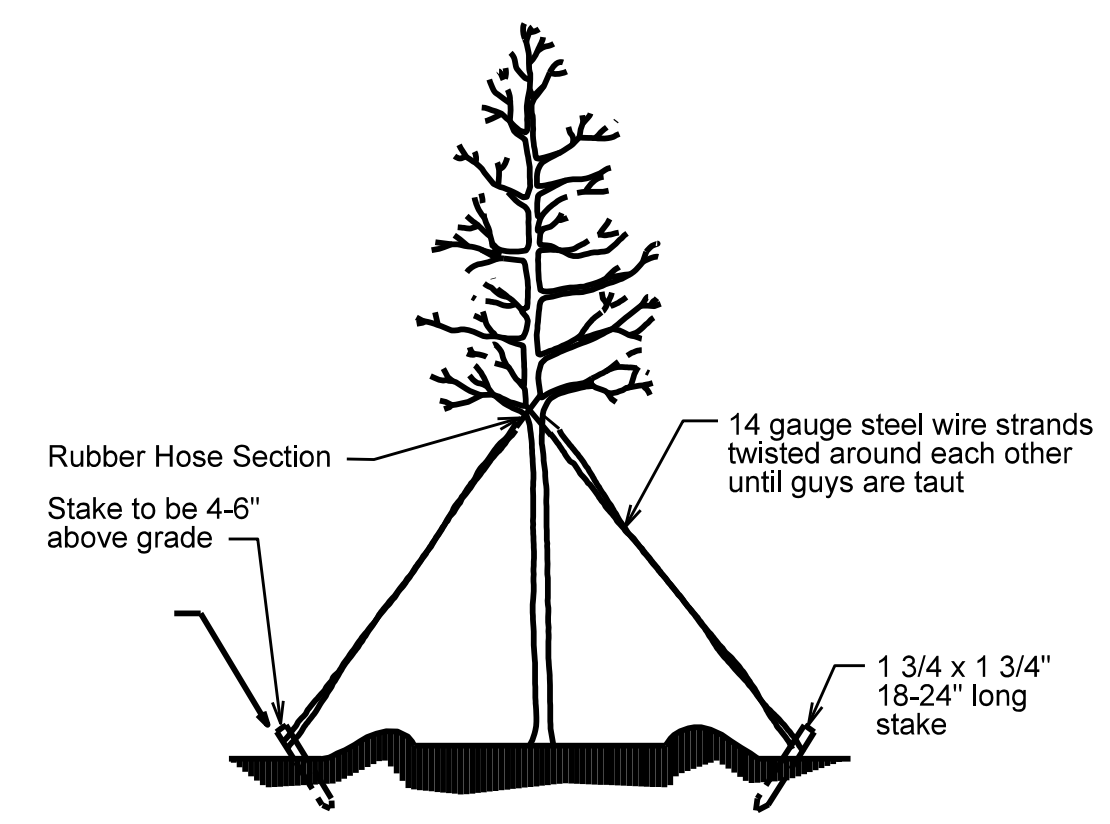
TREE OR SHRUB PLANTING DETAIL
(SLOPING GROUND)



GUARDRAIL MULCHING DETAIL
* Detail to be used when approved by the Engineer.

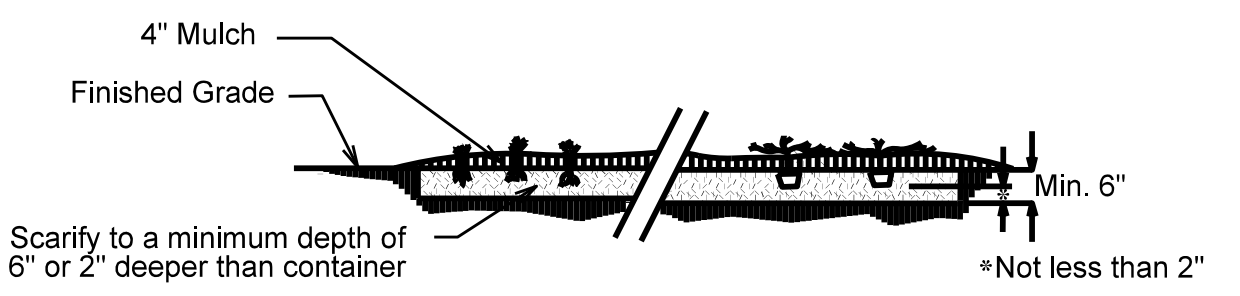


Shrub Bed Planting Detail



TREE GUYING DETAIL
(FOR TREES 10' OR LARGER)

* Utilize guying detail only if requested by the Engineer.

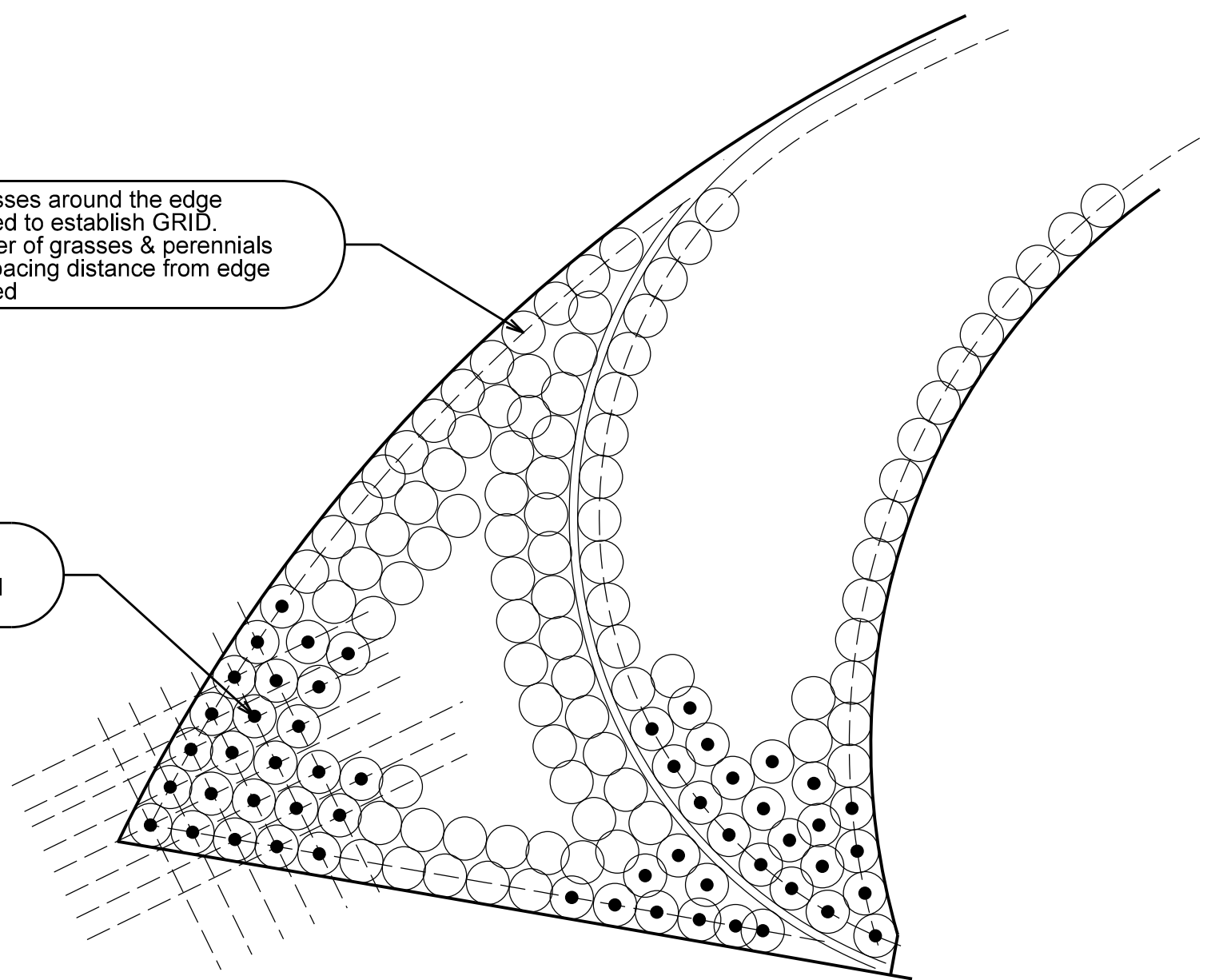


Groundcover Planting Detail

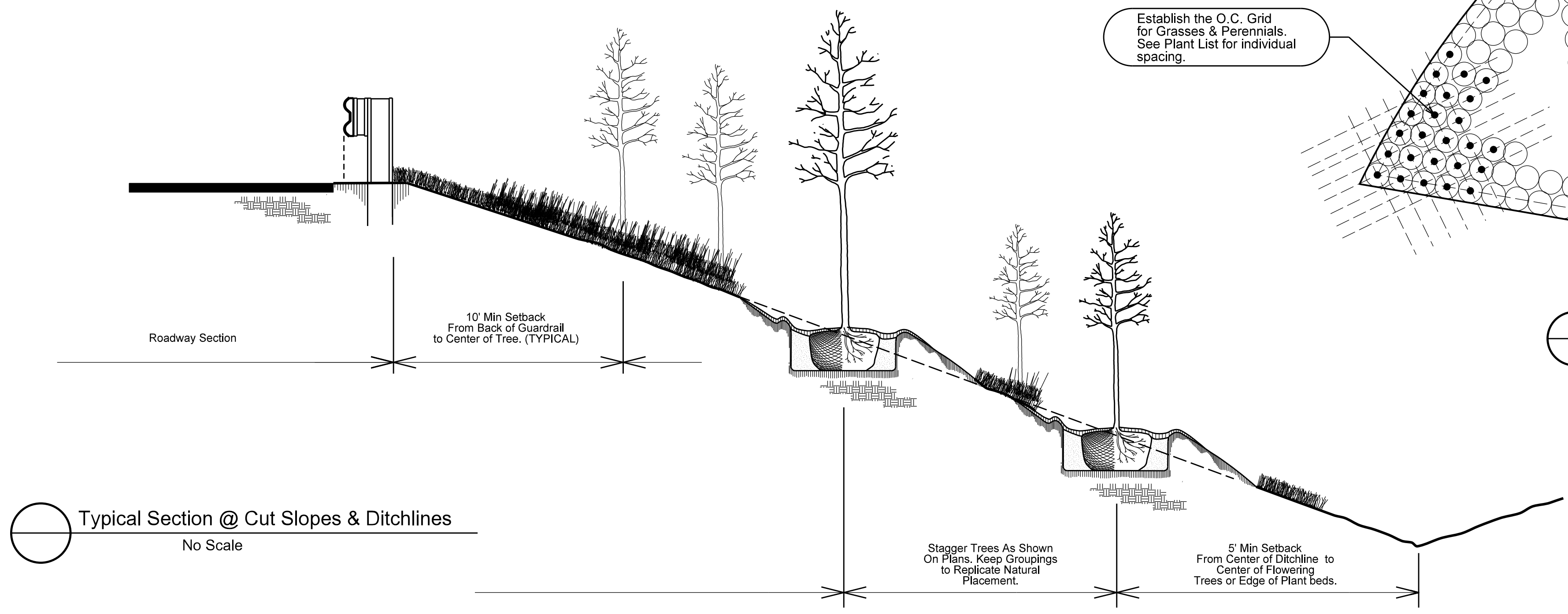
*Plants may be planted before or after mulching operation

Align Grasses around the edge of plant bed to establish GRID. Start center of grasses & perennials half the spacing distance from edge of plant bed

Establish the O.C. Grid for Grasses & Perennials. See Plant List for individual spacing.



Typical Plan View @ Layout for Native Grass & Perennial Plantings
No Scale



Typical Section @ Cut Slopes & Ditchlines
No Scale

NOTES:

SCHEDULE FOR PLANT HOLE SIZE:
CONTAINER OR ROOT BALL SIZE
X = 2 TIMES THE DIAMETER OF THE CONTAINER OR THE ROOT BALL DIAMETER

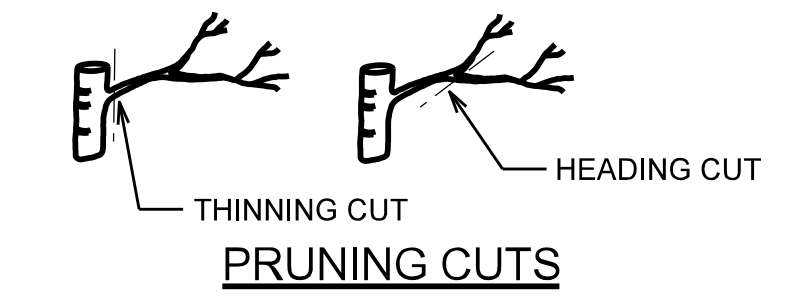
FERTILIZER SHALL BE APPLIED AT TIME OF PLANTING. FERTILIZER SHALL BE A SLOW RELEASE PELLET OR TABLET. FORMULATION SHALL BE APPROVED BY ENGINEER IN THE FIELD.

RATES SHALL BE PER MANUFACTURERS RECOMMENDATIONS AND APPROVED BY THE ENGINEER IN THE FIELD. THOROUGHLY MIX WITH TOPSOIL, BACKFILL OR SCARIFIED SOIL.

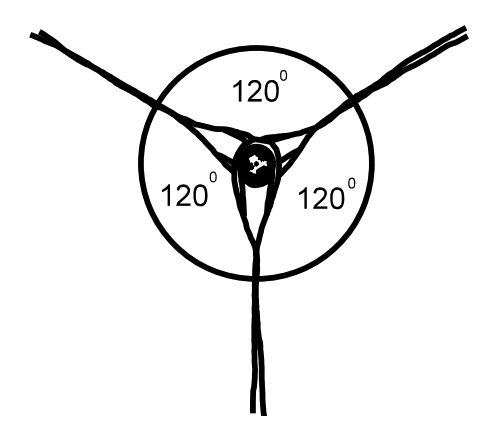
REMOVE BURLAP FROM TOP OF BALL BEFORE BACKFILLING AROUND BALL IS COMPLETE

SEE STANDARD SPECIFICATIONS FOR PLANT BED HERBICIDE TREATMENT

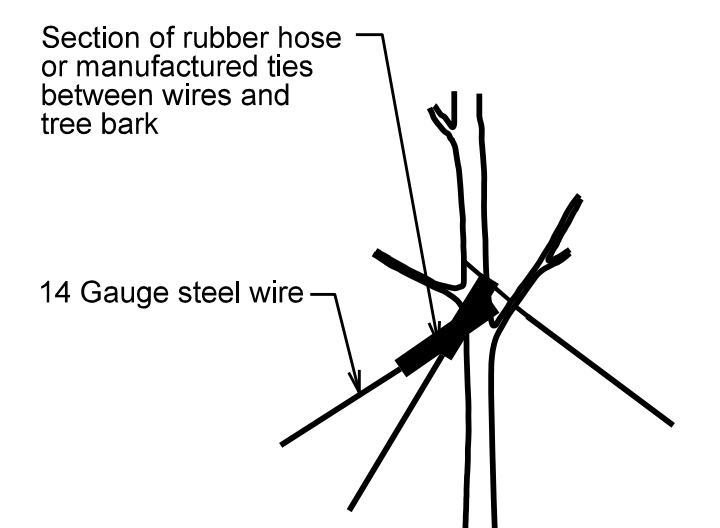
When mulched bed is adjacent to guard rail run mulch to front edge of guard rail - see detail



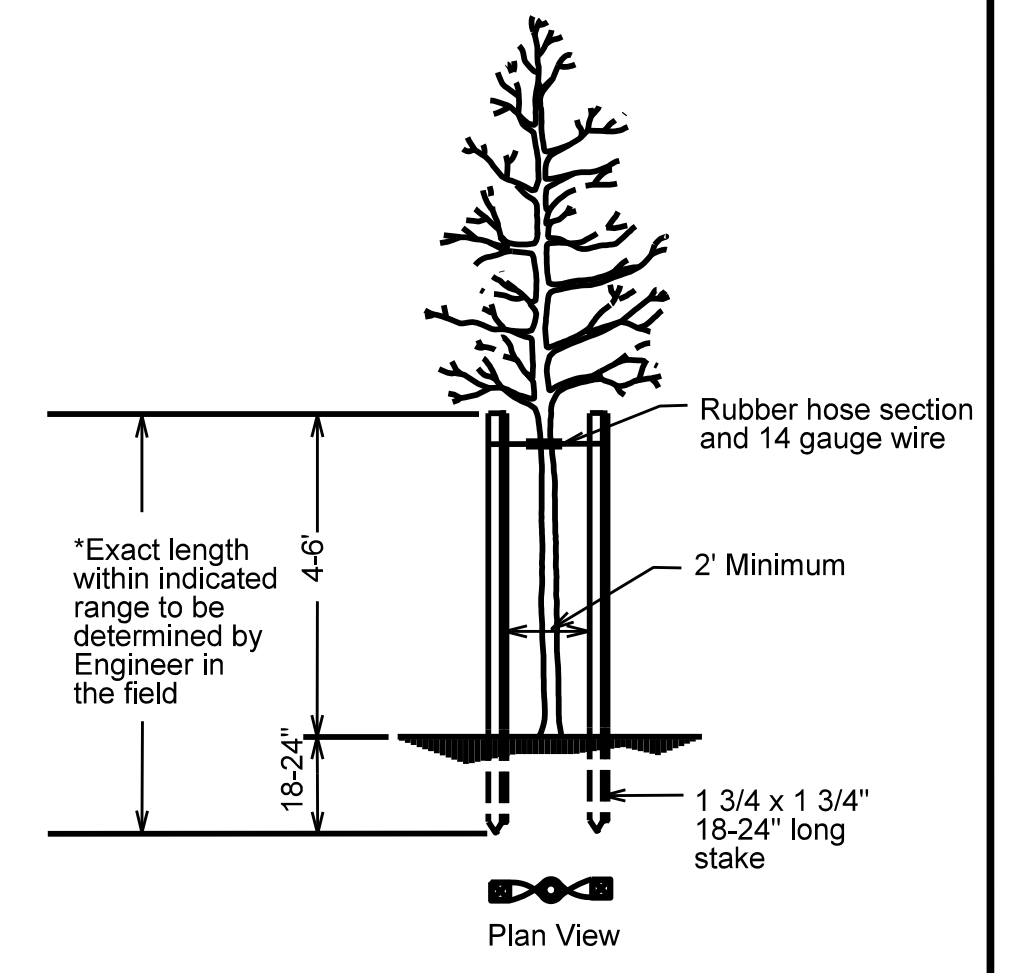
PRUNING CUTS



GUY SPACING DETAIL

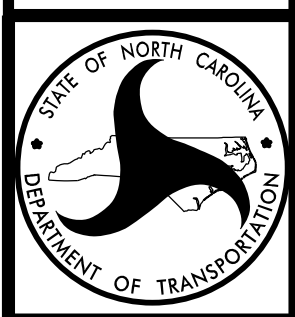


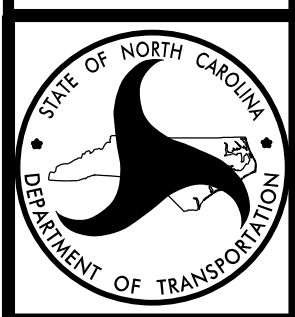
GUY TYING DETAIL



STAKING DETAIL
(FOR TREES 6' TO 10')

* Utilize staking detail only if requested by the Engineer.





	(ASL) Aralia spinosa (Devil's-Walking-Stick)	(CP) SMALL	(OAL) Oxydendrum arboreum (Sourwood)	(CC) Cercis canadensis (Redbud)	(AA) SMALL	(CV) Chionanthus virginicus (Fringetree)	(FGL) Fagus grandifolia (American Beech)	(AFL) Aesculus flava (Yellow Buckeye)	
Small Tree(s)									Small Deciduous Tree(s)
Large Tree(s)		(CPL) Crataegua phaenopyrum (Washington Hawthorne)		(HT) Halesia tetraptera (Silverbell)	(CCL) LARGE	(AAL) Amelanchier arborea (Serviceberry)	(QAL) Quercus alba (White Oak)	(QCL) Quercus coccinea (Scarlet Oak)	Large Deciduous Tree(s)

Notes:

- Contractor Shall Consult with Engineers Prior to any field adjustments. Follow plans as close as possible. SEE plans for spacing of trees and shrubs at the land bridge. Maintain the spacing specified to meet the needs of wildlife and to deter hikers. Consult with Engineer to ensure proper development.

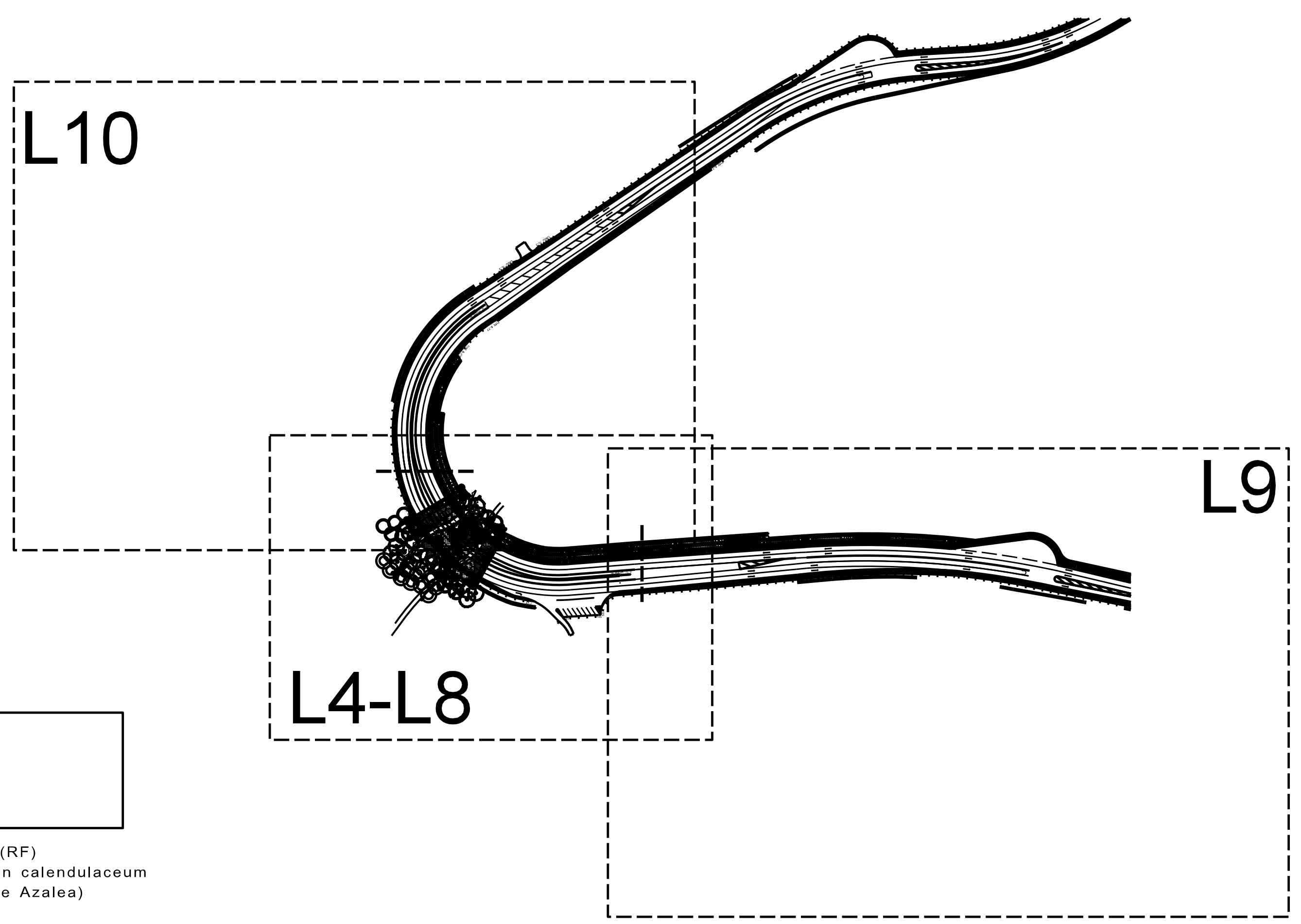
- Contractor shall utilize all NCDOT Standard Specifications for all line items listed. These shall be utilized in conjunction with the Special Provisions. Consult with Engineer in the field to maintain accuracy.

- Trees to be field staked by the ENGINEER. Consult with Engineer for more detailed information to ensure the plants are located according to NCDOT Standard Specifications and are in no conflict with existing utilities, existing vegetation and possible sight lines.

GENERAL PLANT QUALITY NOTES:

- ALL PLANT MATERIAL AND INSTALLATION WORK SHALL CONFORM TO THE STANDARDS DETAILED IN THE FOLLOWING DOCUMENTS:
 - AMERICAN NATIONAL STANDARDS FOR TREE CARE OPERATIONS, ANSI A300. AMERICAN NATIONAL STANDARDS INSTITUTE, 11 WEST 42ND STREET, NEW YORK, N.Y. 10036
 - AMERICAN NATIONAL STANDARD FOR NURSERY STOCK, ANSI Z60.1. AMERICAN NURSERY AND LANDSCAPE ASSOCIATION, 1250 EYE STREET, NW, SUITE 500, WASHINGTON, D.C. 20005
 - HORTUS THIRD, THE STAFF OF THE L.H. BAILEY HORTORIUM, 1976. MACMILLAN PUBLISHING CO., NEW YORK
- ALL PLANT MATERIAL SHALL BE FREE OF ALL PESTS, DISEASES, AND CANKERS, IN HEALTHY CONDITION, AND FREE OF MECHANICAL DAMAGE AT THE TIME OF PLANTING.
- BALLED AND BURLAPPED (B&B) STREET TREES
 - TREES DESIGNATED B&B SHALL BE PROPERLY DUG WITH FIRM, NATURAL BALLS OF SOIL RETAINING AS MANY FIBROUS ROOTS AS POSSIBLE, IN SIZES AND SHAPES AS SPECIFIED IN THE AMERICAN STANDARD FOR NURSERY STOCK ANSI Z60.1.
 - ROOT BALLS SHALL BE FIRMLY WRAPPED WITH NONSYNTHETIC, ROTTABLE BURLAP AND SECURED WITH NAILS AND HEAVY, NONSYNTHETIC TWINE.
 - THE ROOT COLLAR SHALL BE APPARENT AT SURFACE OF BALL, OR THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING EXCESS SOIL FROM THE TOP OF THE ROOTBALL. THE TREE SHALL BE PLANTED AT GRADE; NO MORE THAN 2' ABOVE GRADE AND SHALL NOT BE PLANTED BELOW GRADE.
 - REMOVE ALL BURLAP, LACING, AND WIRE BASKET FROM AT LEAST THE TOP 1/2 OF THE ROOTBALL AND DISCARD FROM PLANTING HOLE.
 - DO NOT MANEUVER BY TRUNK. HANDLE BY ROOT BALL ONLY.
- CONTAINERIZED MATERIAL
 - TREES DESIGNATED CONTAINERIZED SHALL HAVE FIRM, NATURAL BALLS OF SOIL RETAINING AS MANY FIBROUS ROOTS AS POSSIBLE, IN SIZES AND SHAPES AS SPECIFIED IN THE AMERICAN STANDARD FOR NURSERY STOCK ANSI Z60.1.
 - THE ROOT COLLAR SHALL BE APPARENT AT SURFACE OF BALL, OR THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING EXCESS SOIL FROM THE TOP OF THE ROOTBALL. THE TREE SHALL BE PLANTED AT GRADE; NO MORE THAN 2' ABOVE GRADE AND SHALL NOT BE PLANTED BELOW GRADE.
 - REMOVE CONTAINER PRIOR TO PLANTING.

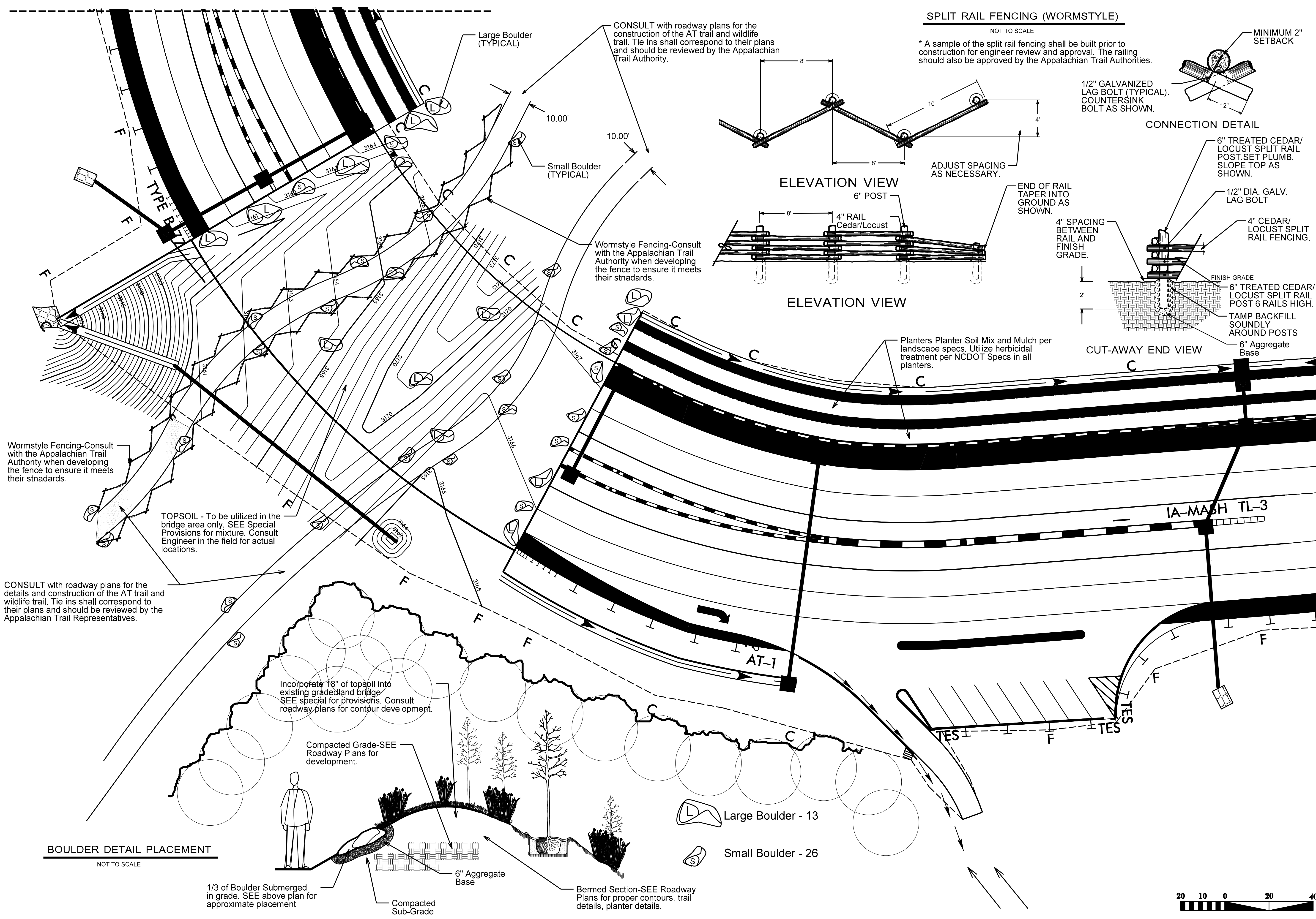
PLANT SYMBOLOLOGY (TreeS)



PLANT SYMBOLOLOGY (ShrubS)

(IV) Itea virginica (Virginia Sweetspire)	(CF) Calycanthus floridus (Sweet Shrub)	(VC) Vaccinium corymbosum (Smooth Highbush Blueberry)	(CS) Cornus amomum (Silky Dogwood)	(CA) Clethra acuminata (Mountain Pepperbush)	(RF) Rhododendron calendulaceum (Flame Azalea)
(IW) Ilex verticillata (Winterberry)	(SC) Sambucus canadensis (Elderberry)	(DS) Diervilla sessilifolia (Bush Honeysuckle)	(RC) Rubus canadensis (Blackberry)		

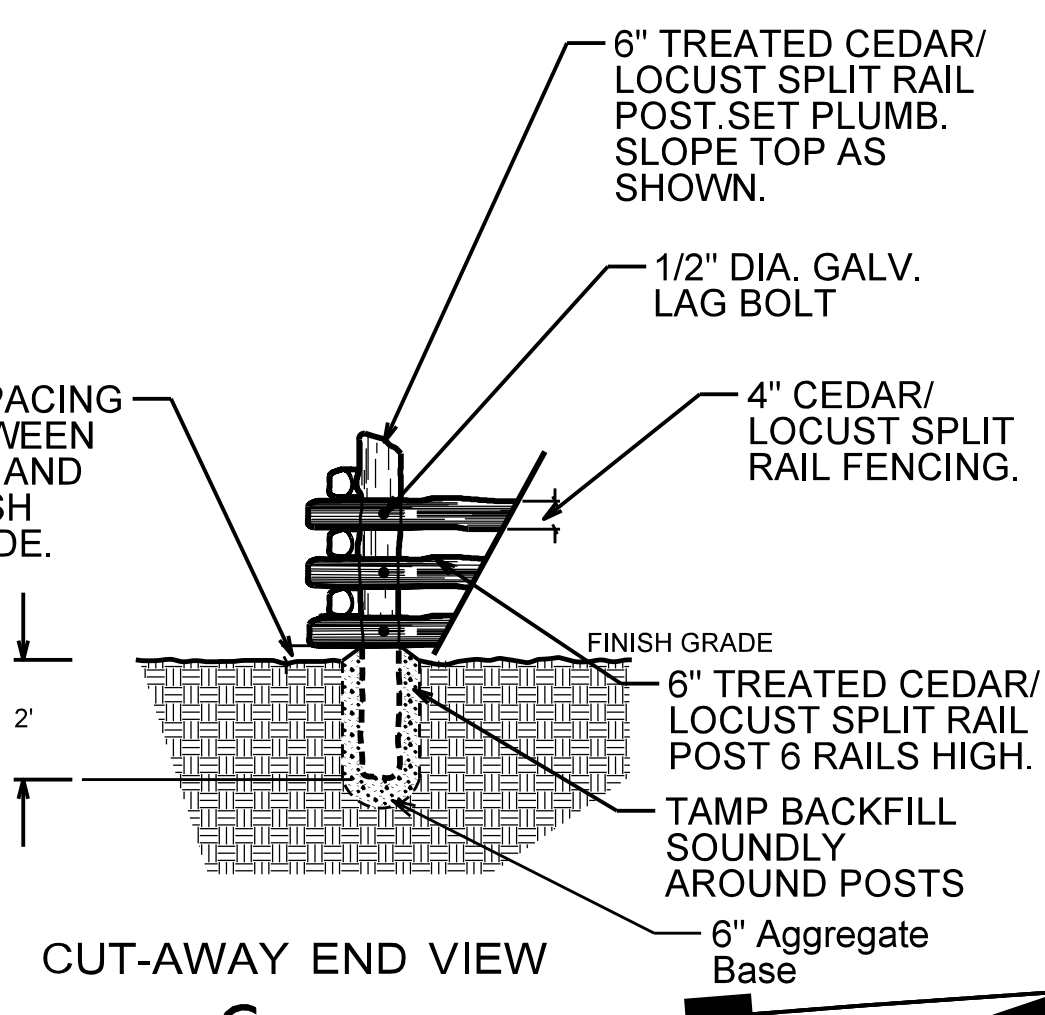
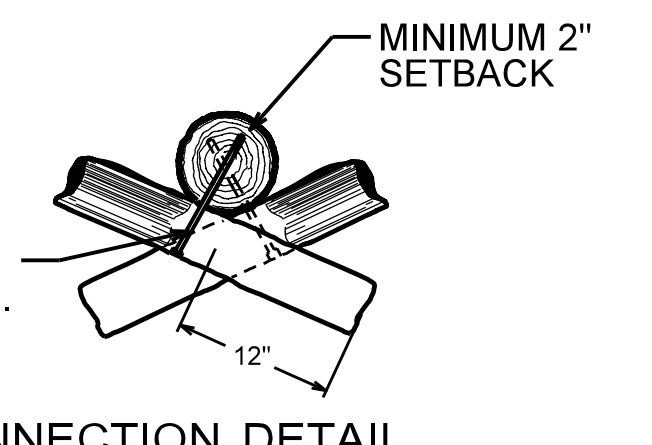
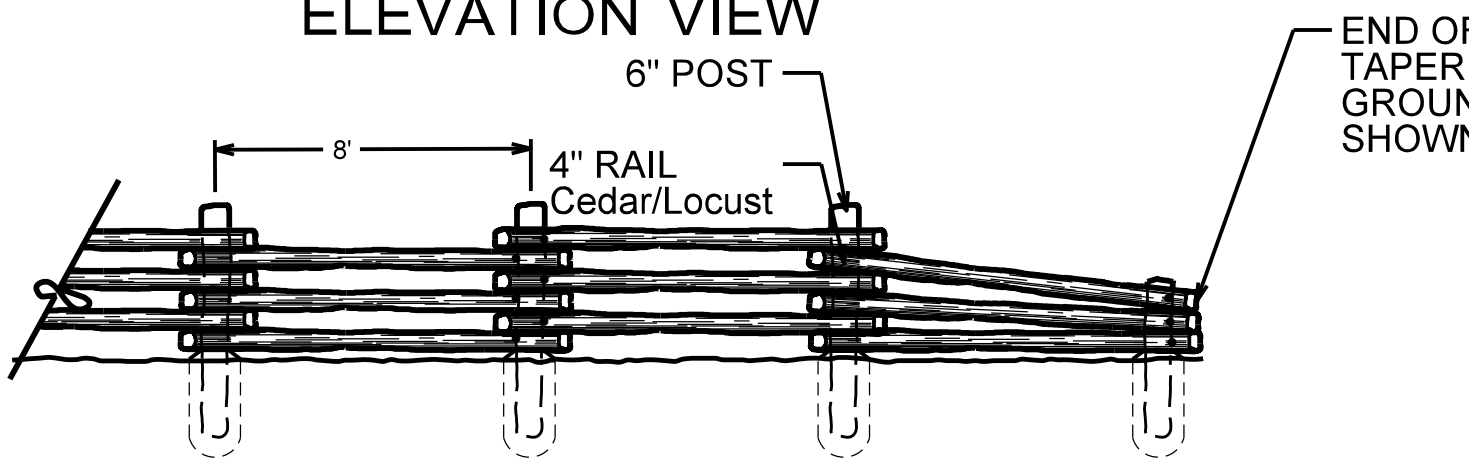
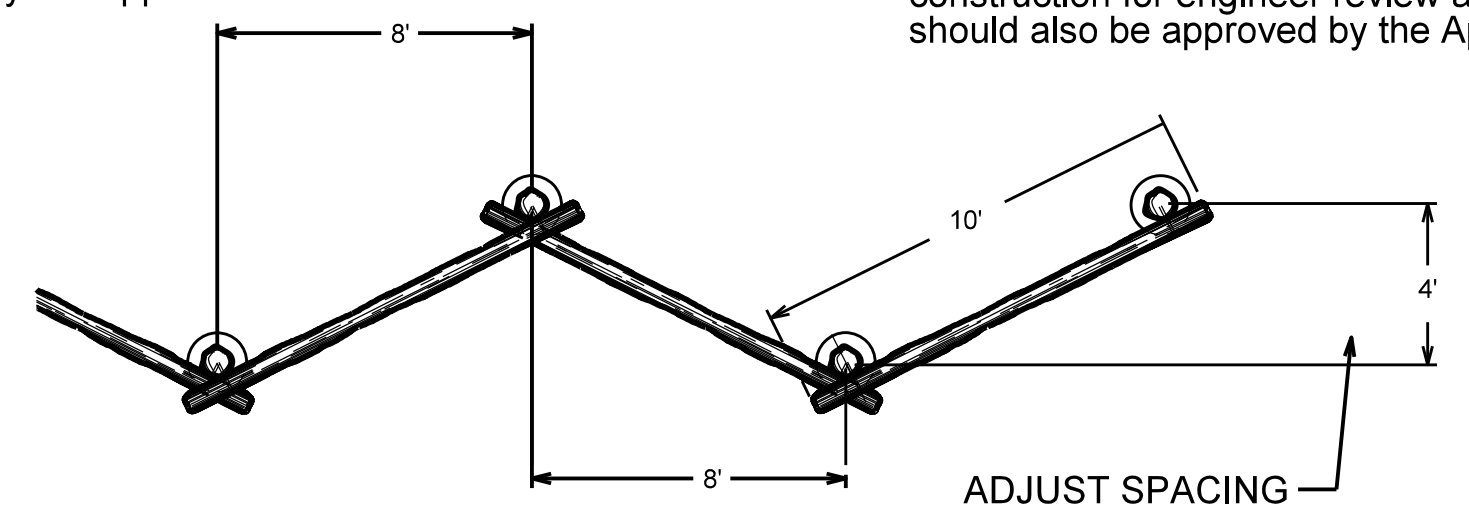
07/09/97



SPLIT RAIL FENCING (WORMSTYLE)

NOT TO SCALE

* A sample of the split rail fencing shall be built prior to construction for engineer review and approval. The raiing should also be approved by the Appalachian Trail Authorities.



Wormstyle Fencing-Consult with the Appalachian Trail Authority when developing the fence to ensure it meets their standards.

TOPSOIL - To be utilized in the bridge area only. SEE Special Provisions for mixture. Consult Engineer in the field for actual locations.

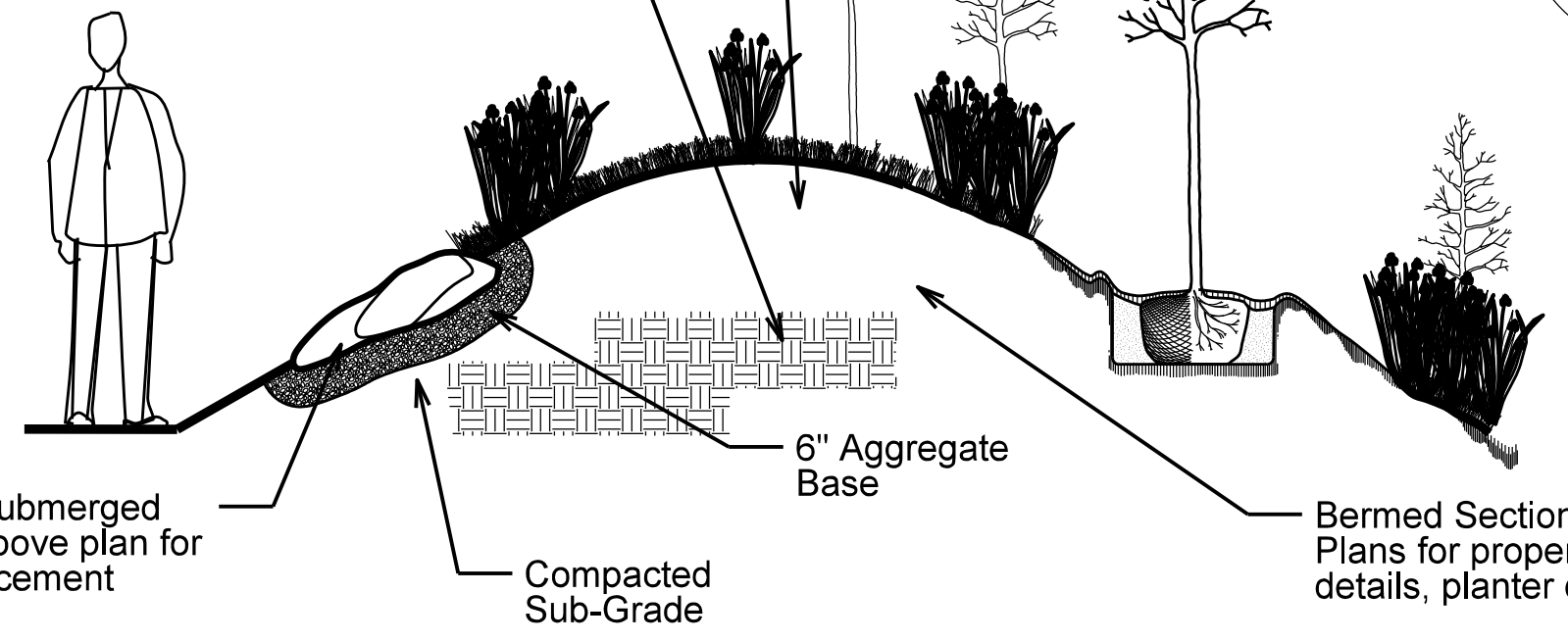
CONSULT with roadway plans for the details and construction of the AT trail and wildlife trail. Tie ins shall correspond to their plans and should be reviewed by the Appalachian Trail Representatives.

Incorporate 18" of topsoil into existing gradedland bridge. SEE special for provisions. Consult roadway plans for contour development.

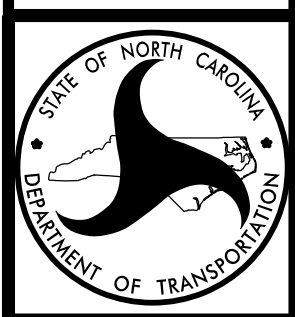
Compacted Grade-SEE Roadway Plans for development.

BOULDER DETAIL PLACEMENT

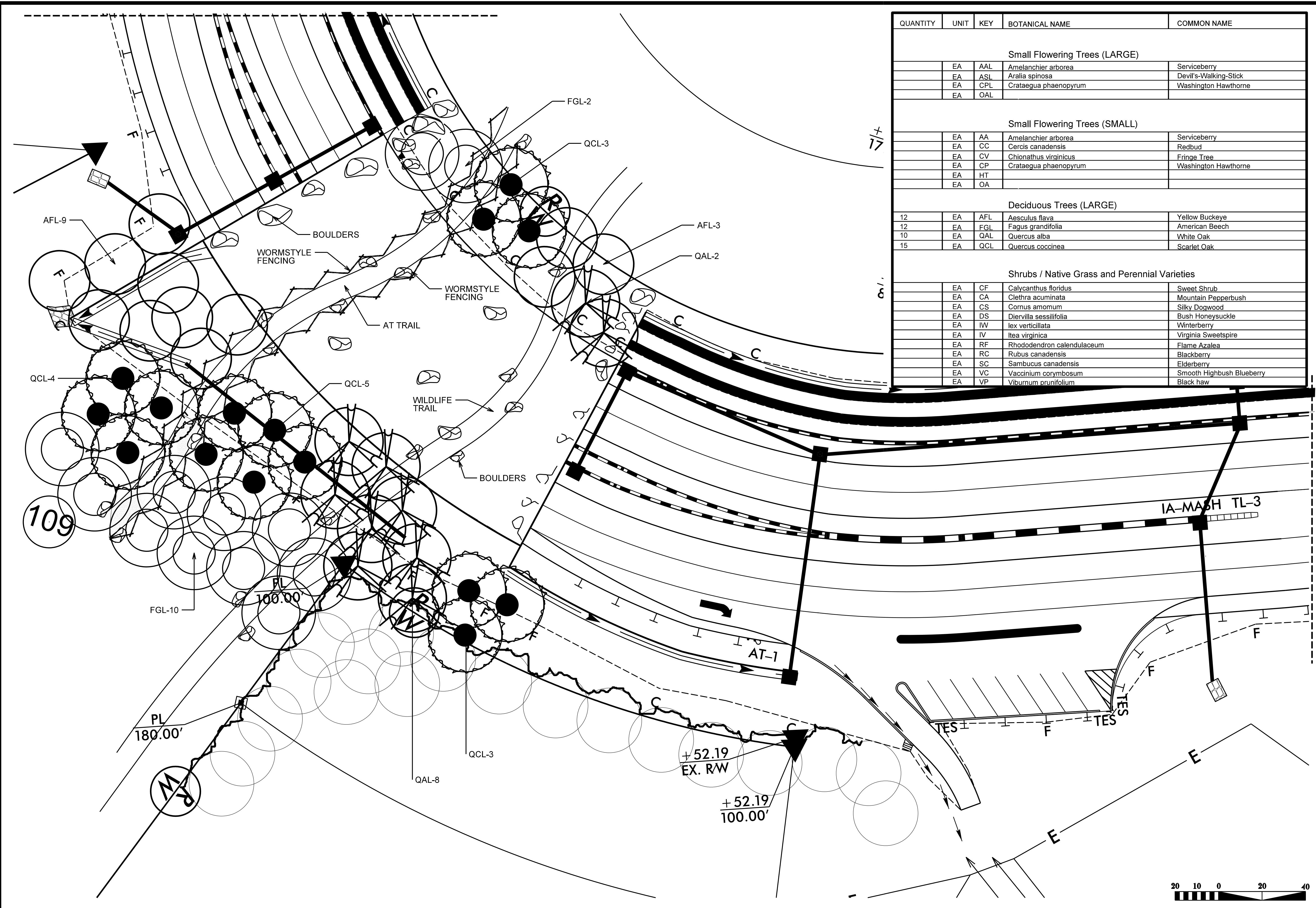
NOT TO SCALE



- Large Boulder - 13
- Small Boulder - 26



07/09/17



QUANTITY	UNIT	KEY	BOTANICAL NAME	COMMON NAME
Small Flowering Trees (LARGE)				
	EA	AAL	Amelanchier arborea	Serviceberry
	EA	ASL	Aralia spinosa	Devil's-Walking-Stick
	EA	CPL	Crataegua phaenopyrum	Washington Hawthorne
	EA	OAL		
Small Flowering Trees (SMALL)				
	EA	AA	Amelanchier arborea	Serviceberry
	EA	CC	Cercis canadensis	Redbud
	EA	CV	Chionathus virginicus	Fringe Tree
	EA	CP	Crataegua phaenopyrum	Washington Hawthorne
	EA	HT		
	EA	OA		
Deciduous Trees (LARGE)				
12	EA	AFL	Aesculus flava	Yellow Buckeye
12	EA	FGL	Fagus grandifolia	American Beech
10	EA	QAL	Quercus alba	White Oak
15	EA	QCL	Quercus coccinea	Scarlet Oak
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	EA	CF	Calycanthus floridus	Sweet Shrub
	EA	CA	Clethra acuminata	Mountain Pepperbush
	EA	CS	Cornus amomum	Silky Dogwood
	EA	DS	Diervilla sessilifolia	Bush Honeysuckle
	EA	IW	Ilex verticillata	Winterberry
	EA	IV	Itea virginica	Virginia Sweetspire
	EA	RF	Rhododendron calendulaceum	Flame Azalea
	EA	RC	Rubus canadensis	Blackberry
	EA	SC	Sambucus canadensis	Elderberry
	EA	VC	Vaccinium corymbosum	Smooth Highbush Blueberry
	EA	VP	Viburnum prunifolium	Black haw

SHEET NO.
L6
PROJECT REF. NO.
A-0009CB
A-0009 Land Bridge Enhancements & Aesthetics
Graham County, North Carolina
Over NC 143 between SR 1282 & NC 28

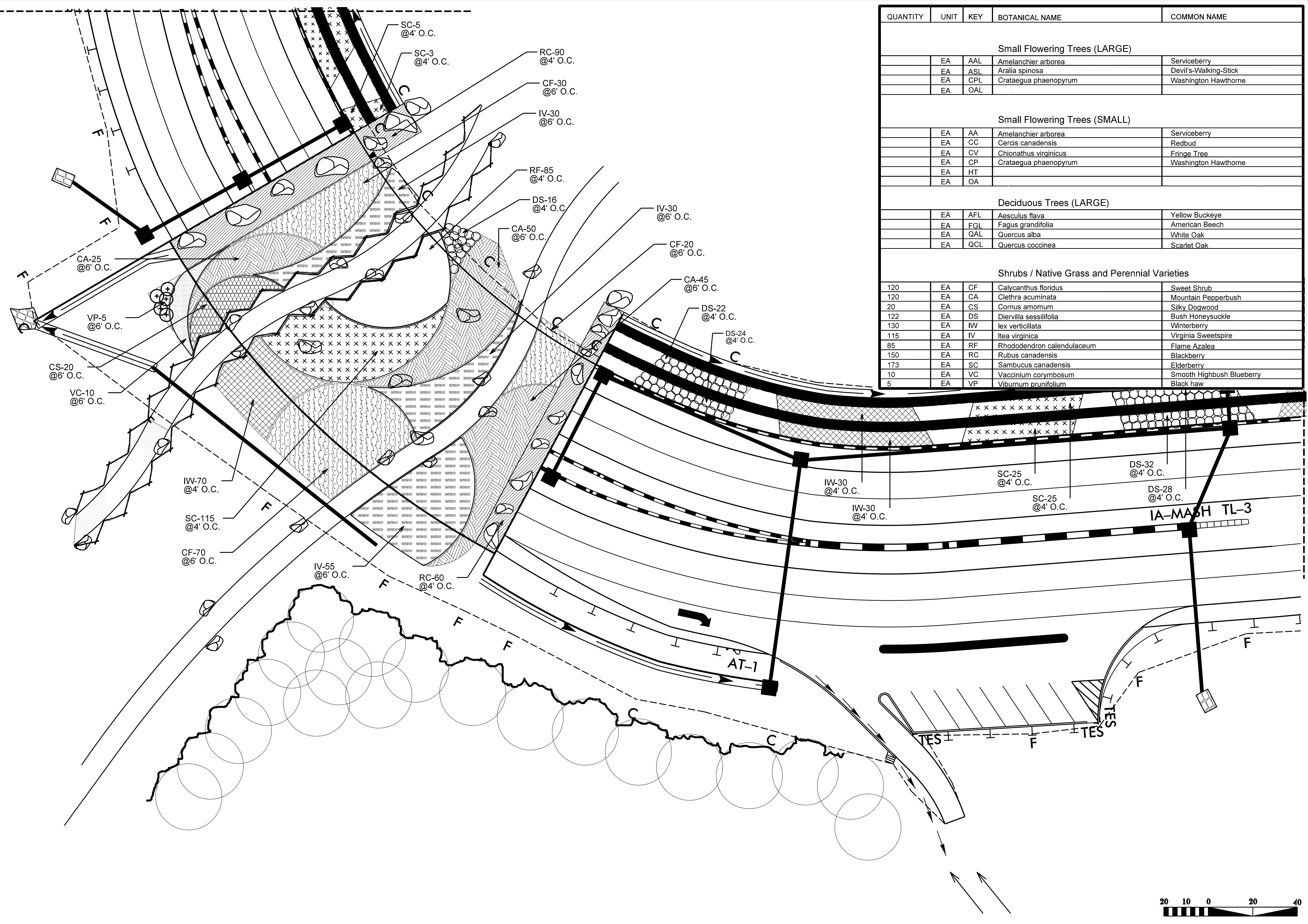


N.C. Department of Transportation
Roadside Environmental Unit - Aesthetic Engineering Section
Landscape Plan - Large Trees

L6



DATE PLOTTED: 07/09/17 10:58 AM
SCALE: AS SHOWN
DRAWN BY: J. HARRIS
CHECKED BY: J. HARRIS
APPROVED BY: J. HARRIS

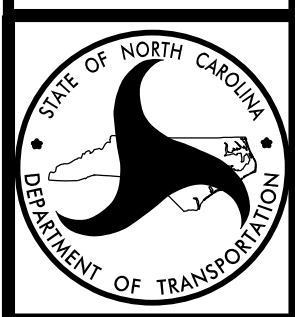


QUANTITY	UNIT	KEY	BOTANICAL NAME	COMMON NAME
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	EA	CPL	Crataegua phaenopyrum	Washington Hawthorne
	EA	OAL		
Small Flowering Trees (SMALL)				
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	EA	CC	Cercis canadensis	Redbud
	EA	CV	Chionathus virginicus	Fringe Tree
	EA	CP	Crataegua phaenopyrum	Washington Hawthorne
	EA	HT		
	EA	OA		
Deciduous Trees (LARGE)				
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	EA	FGL	Fagus grandifolia	American Beech
	EA	QAL	Quercus alba	White Oak
	EA	QCL	Quercus coccinea	Scarlet Oak
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173	EA	SC	Sambucus canadensis	Elderberry
10	EA	VC	Vaccinium corymbosum	Smooth Highbush Blueberry
5	EA	VP	Viburnum prunifolium	Black haw

SHEET NO.
L7

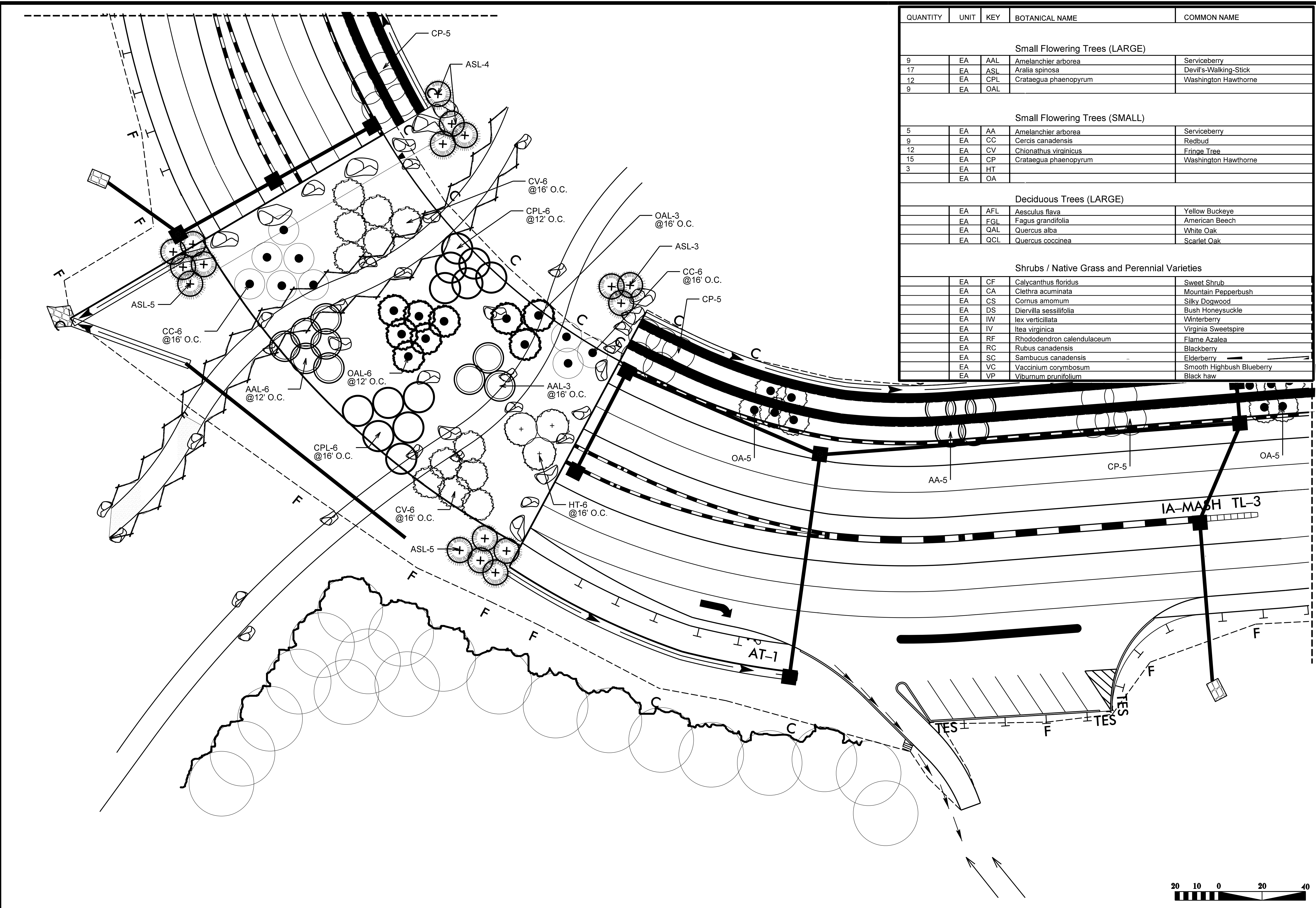
PROJECT REF. NO.
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Graham County, North Carolina
Over NC 143 between SR 1282 & NC 28



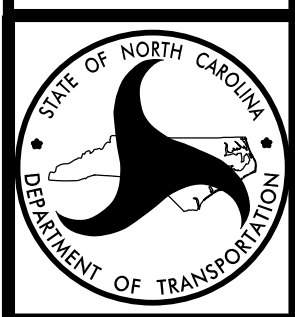
N.C. Department of Transportation
Roadside Environmental Unit - Aesthetic Engineering Section
Landscape Planning - SHRUB(S)

07/09/97



QUANTITY	UNIT	KEY	BOTANICAL NAME	COMMON NAME
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12	EA	CPL	Crataegua phaenopyrum	Washington Hawthorne
9	EA	OAL		
Small Flowering Trees (SMALL)				
5	EA	AA	Amelanchier arborea	Serviceberry
9	EA	CC	Cercis canadensis	Redbud
12	EA	CV	Chionathus virginicus	Fringe Tree
15	EA	CP	Crataegua phaenopyrum	Washington Hawthorne
3	EA	HT		
	EA	OA		
Deciduous Trees (LARGE)				
	EA	AFL	Aesculus flava	Yellow Buckeye
	EA	FGL	Fagus grandifolia	American Beech
	EA	QAL	Quercus alba	White Oak
	EA	QCL	Quercus coccinea	Scarlet Oak
Shrubs / Native Grass and Perennial Varieties				
	EA	CF	Calycanthus floridus	Sweet Shrub
	EA	CA	Clethra acuminata	Mountain Pepperbush
	EA	CS	Cornus amomum	Silky Dogwood
	EA	DS	Diervilla sessilifolia	Bush Honeysuckle
	EA	IW	Ilex verticillata	Winterberry
	EA	IV	Itea virginica	Virginia Sweetspire
	EA	RF	Rhododendron calendulaceum	Flame Azalea
	EA	RC	Rubus canadensis	Blackberry
	EA	SC	Sambucus canadensis	Elderberry
	EA	VC	Vaccinium corymbosum	Smooth Highbush Blueberry
	EA	VP	Viburnum prunifolium	Black haw

SHEET NO.
L8
PROJECT REF. NO.
A-0009CB
A-0009 Land Bridge Enhancements & Aesthetics
Graham County, North Carolina
Over NC 143 between SR 1282 & NC 28



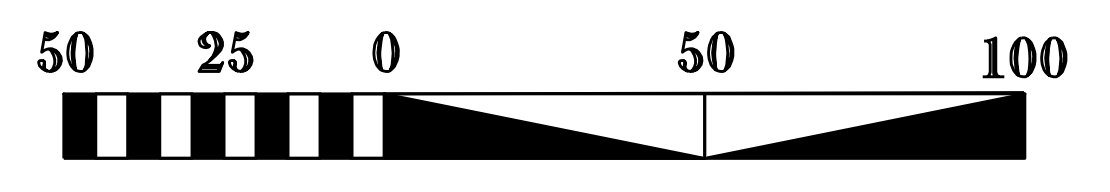
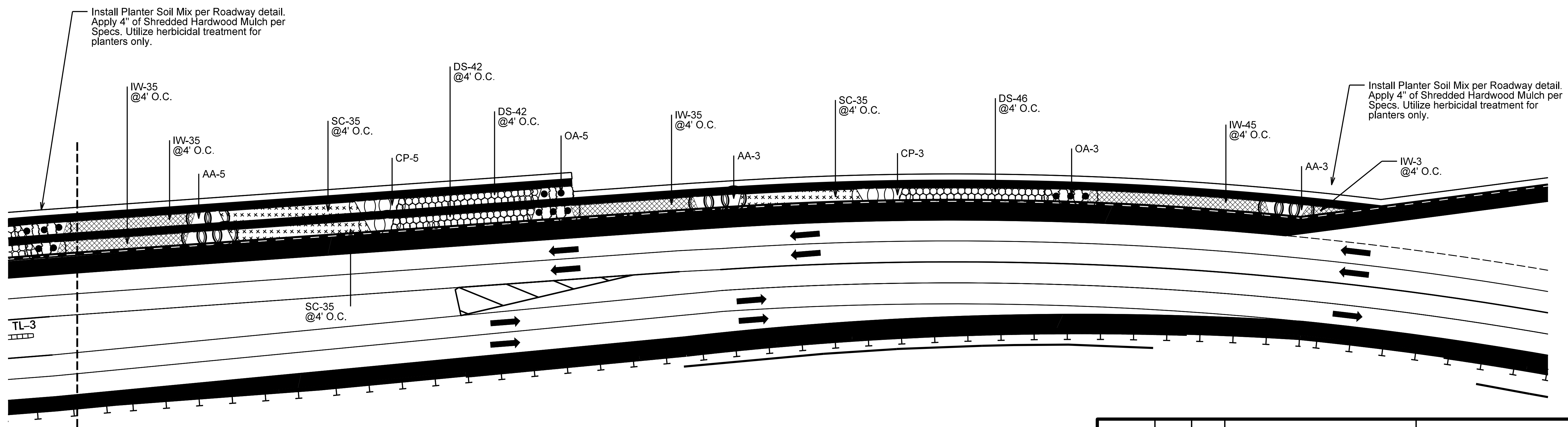
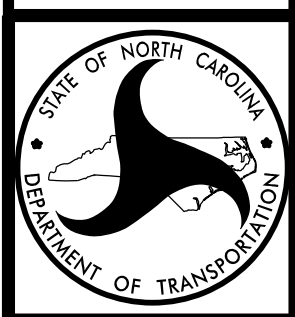
N.C. Department of Transportation
Roadside Environmental Unit - Aesthetic Engineering Section
Landscape Plan—Small Tree(s)



L8

SYSTEMS
DESIGN
INC.

07/09/97



QUANTITY	UNIT	KEY	BOTANICAL NAME	COMMON NAME
Small Flowering Trees (LARGE)				
	EA	AAL	Amelanchier arborea	Serviceberry
	EA	ASL	Aralia spinosa	Devil's-Walking-Stick
	EA	CPL	Crataegua phaenopyrum	Washington Hawthorne
	EA	OAL		
Small Flowering Trees (SMALL)				
11	EA	AA	Amelanchier arborea	Serviceberry
	EA	CC	Cercis canadensis	Redbud
	EA	CV	Chionathus virginicus	Fringe Tree
8	EA	CP	Crataegua phaenopyrum	Washington Hawthorne
	EA	HT		
8	EA	OA		
Deciduous Trees (LARGE)				
	EA	AFL	Aesculus flava	Yellow Buckeye
	EA	FGL	Fagus grandifolia	American Beech
	EA	OAL	Quercus alba	White Oak
	EA	QCL	Quercus coccinea	Scarlet Oak
Shrubs / Native Grass and Perennial Varieties				
	EA	CF	Calycanthus floridus	Sweet Shrub
	EA	CA	Clethra acuminata	Mountain Pepperbush
	EA	CS	Cornus amomum	Silky Dogwood
130	EA	DS	Diervilla sessilifolia	Bush Honeysuckle
150	EA	IW	Ilex verticillata	Winterberry
	EA	IV	Itea virginica	Virginia Sweetspire
	EA	RF	Rhododendron calendulaceum	Flame Azalea
	EA	RC	Rubus canadensis	Blackberry
105	EA	SC	Sambucus canadensis	Elderberry
	EA	VC	Vaccinium corymbosum	Smooth Highbush Blueberry
	EA	VP	Viburnum prunifolium	Black haw

