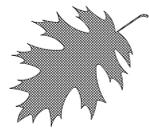
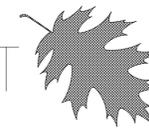


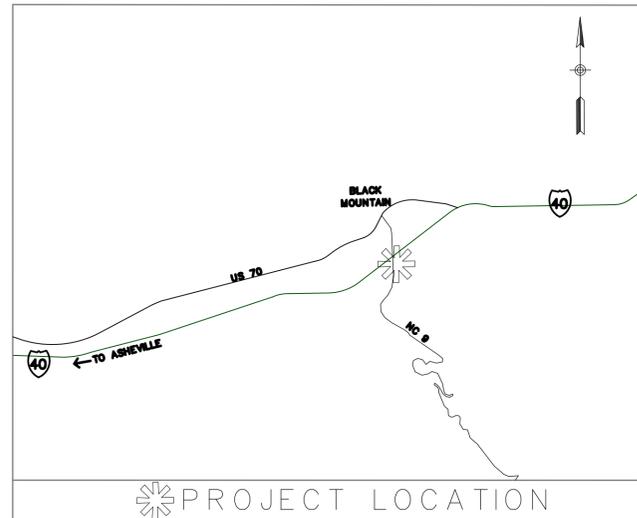
PROJECT: Route 9 Slope, Black Mountain, NC



# PROPOSED HIGHWAY LANDSCAPE DEVELOPMENT PROJECT



T.I.P. #	STATE PROJECT W.B.S. #	SHEET #	SHEET # TOTAL
	3713.3.28	L1	3
FED. PROJ. #	DESCRIPTION	DIVISION	
	Slope Rehabilitation Planting on State Route 9 at I-40 Black Mountain Exit - Black Mountain, NC	13	



## SUMMARY OF QUANTITIES:

### PLANT MATERIALS

Qty	Unit	Key	Botanical Name	Common Name	Furnish	ASNS	Spacing
<b>Trees</b>							
16	ea	OA	Oxydendron arboreum	Sourwood	2 - 2 1/2" Caliper, Standard B&B, Straight Trunk, Matched Specimens	1.2.3	To be field staked
15	ea	CC	Cercis canadensis 'Forest Pansy'	Forest Pansy Eastern Red Bud	2 - 2 1/2" Caliper, Standard B&B, Straight Trunk, Matched Specimens	1.2.3	To be field staked
5	ea	IO	Ilex Opaca	American Holly	8-9' B&B, heavily branched to the ground	4.2.5	To be field staked
15	ea	JV	Juniperus virginiana 'Burkii'	Burk Eastern Red Cedar	10-12' B&B, heavily branched to the ground	3.2.4	To be field staked

### Shrubs

36	ea	VP	Viburnum plicatum var. tomentosum	Doublefile viburnum	24-30", #7 Container	2.2.4	8' O.C.
15	ea	RC	Rhododendron catawbiense	Catawba Rhododendron	24-30", #7 Container	4.2.4	6' O.C.

### Groundcover

731	ea	CP	Carex pennsylvania	Pennsylvania Sedge	4" Container, fully rooted	12.4	12" O.C.
437	ea	HH	Helleborus 'Red Racer'	Lenten Rose	#1 Container, fully rooted	12.3	18" O.C.
700	ea	NA	Narcissus 'Carlton'	Daffodil	RN III	10.19	4-5 inches O.C.
232	ea	ATC	Asclepias tuberosa	Butterfly Weed	4" Container, fully rooted		18" O.C.
281	ea	AIB	Asclepias incarnata 'Ice Ballet'	Swamp Milkweed	4" Container, fully rooted		18" O.C.
176	ea	ATP	Asclepias tuberosa	Butterfly Weed	LP50 plug		12" O.C.
176	ea	AI	Asclepias incarnata	Swamp Milkweed	LP50 plug		12" O.C.
176	ea	AS	Asclepias syriaca	Common Milkweed	LP50 plug		12" O.C.

### OTHER ITEMS

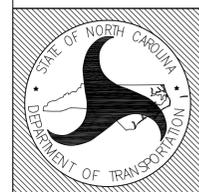
Quantity	Unit	Description
1620	SY	Post-Emergence Herbicide Treatment for Plant Beds (14700 SF)
1620	SY	Pre-Emergence Herbicidal Treatment for Plant Beds (14700 SF)
192	CY	Mulch for Planting 4" thick
3	M/G	Water for Planting
1	LS	Clearing and Grubbing (46,000 SF)
0.7	acre	Seeding and Mulching - Custom Seed Mix 30300 SF

### ESTABLISHMENT PERIOD

Quantity	Unit	Description
12	Cycle	Monthly Establishment and Warranty Work

## GENERAL NOTES:

- Verify locations of pertinent site improvements installed under other sections. If any part of this plan cannot be followed due to site conditions, contact Landscape Architect for instructions prior to commencing work.
- Exact locations of field staked plant materials to be approved by the Landscape Architect or Engineer in the field prior to installation.
- Verify plant counts and square footages: Quantities are provided as Owner information only. If quantities on plant list differ from graphic indications, then graphics shall prevail.
- Contact the local underground utility services for utility location and identification.
- Perform excavation in the vicinity of underground utilities with care and if necessary, by hand. The Contractor bears full responsibility for this work and disruption or damage to utilities shall be repaired immediately at no expense to the Owner.
- Align and equally space in all directions shrubs so designated per these notes and drawings.
- Square footages for Clearing & Grubbing areas are approximate.



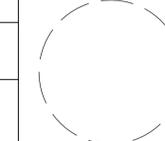
STATE OF  
NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

LOCATION: Route 9 - Black Mountain, NC

TYPE of WORK: Landscape Development

COUNTY: Buncombe County

Seal:



### 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	-----○-----
Prop. Control of Access Line	-----○-----
Property Line	-----E-----
Easement Line	-----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	-----

## INDEX OF SHEETS:

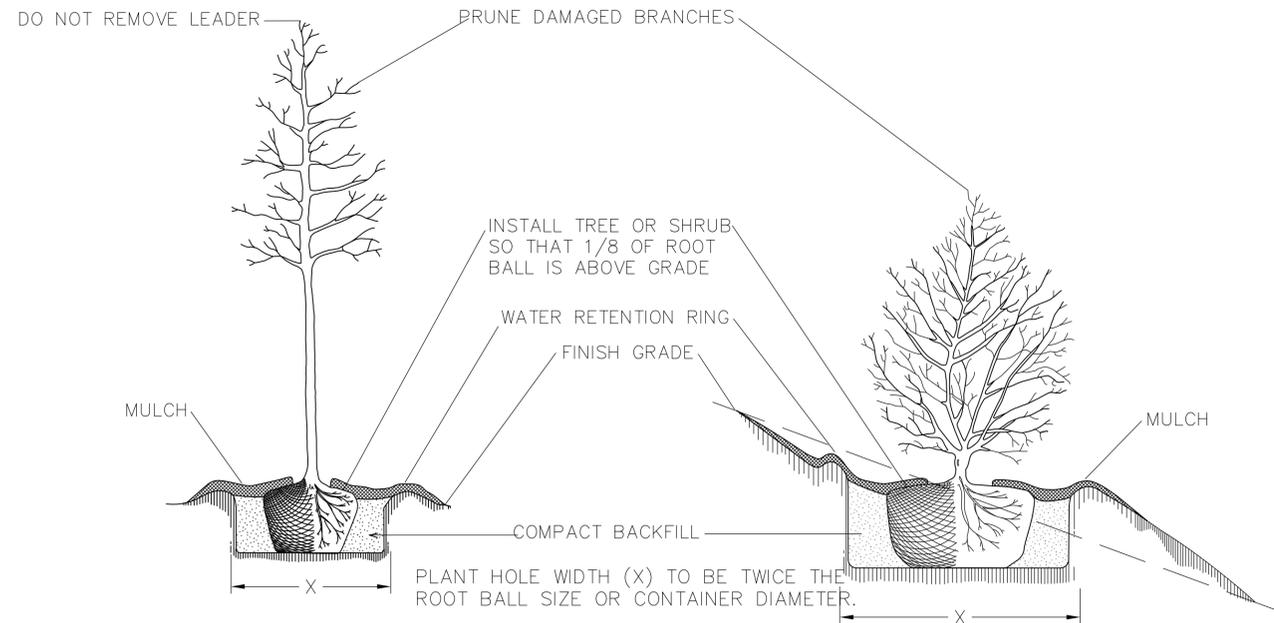
- L1 ... Title Sheet,
- Summary of Quantities
- L2 ... Planting Detail Sheet
- L3 ... Planting Plan

## PREPARED BY:

Design Workshop  
60 Biltmore Ave. Suite 3C  
Asheville, NC 28801  
(828) 225-6901  
www.designworkshop.com

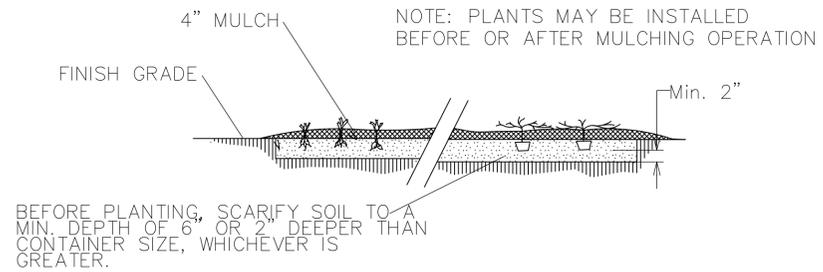
DATE:	REVISIONS
12-08-14	Preliminary Design Concept
12-16-14	NCDOT Comment Revisions
3-24-15	Final Revisions

2004 American Standard for Nursery Stock  
2012 NCDOT STANDARD SPECIFICATIONS  
PREPARED IN THE OFFICE OF:  
NCDOT - ROADSIDE ENVIRONMENTAL UNIT  
LANDSCAPE DESIGN & DEVELOPMENT SECTION  
1557 MAIL SERVICE CENTER  
RALEIGH NC 27699 919-707-2935

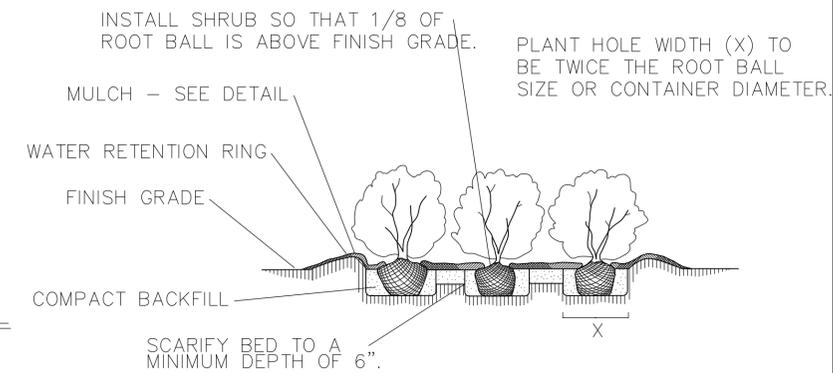


TREE OR SHRUB PLANTING DETAIL  
(LEVEL GROUND)

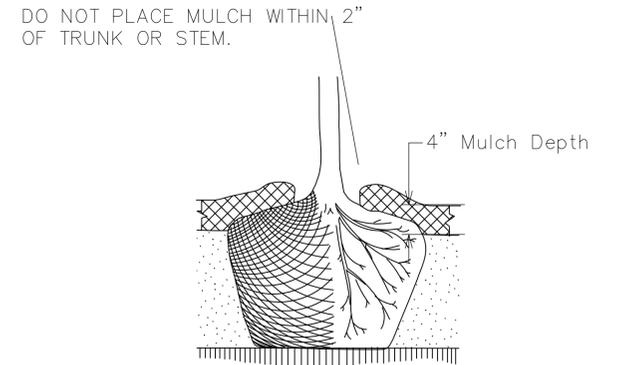
TREE OR SHRUB PLANTING DETAIL  
(SLOPING GROUND)



GROUND COVER/ BEDDING  
PLANT DETAIL



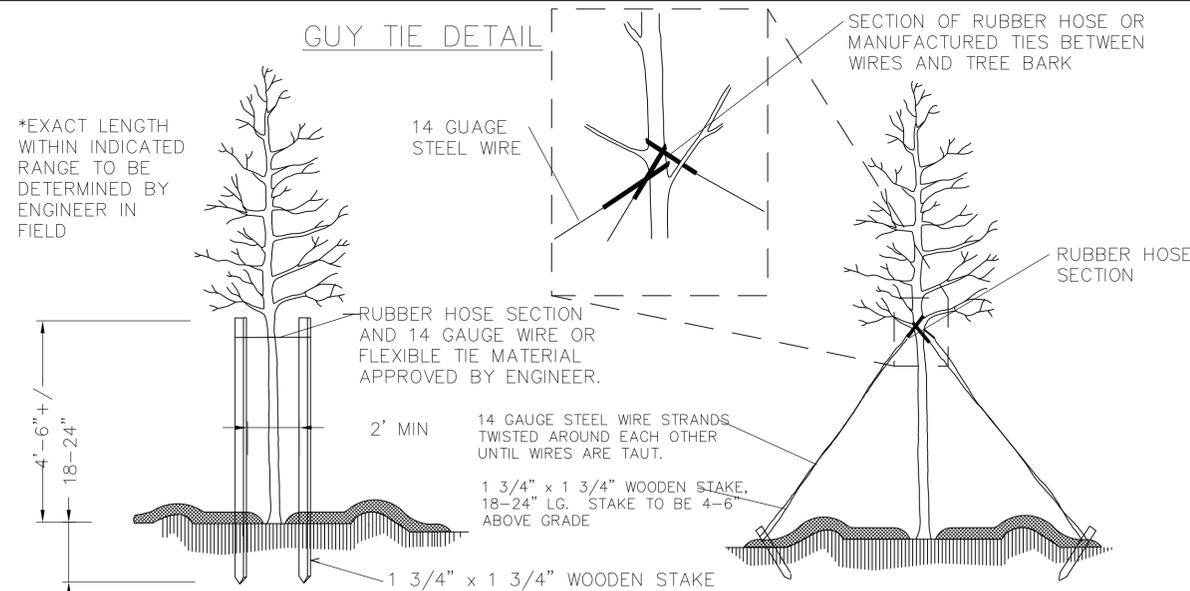
SHRUB BED PLANTING DETAIL



MULCH DETAIL

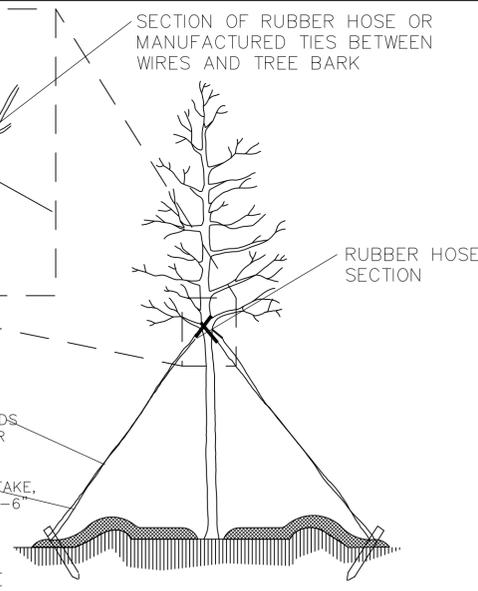
NOTES:

- SCHEDULE FOR PLANT HOLE SIZE: PLANT HOLE WIDTH (X) TO BE TWICE THE ROOT BALL SIZE OR CONTAINER DIAMETER.
- SEE STANDARD SPECIFICATIONS FOR PLANT BED FUMIGATION AND HERBICIDAL TREATMENT.
- APPLY FERTILIZER AT PLANTING TIME IN THE FORM OF A SLOW RELEASE PELLET OR TABLET. APPLY AT RATE RECOMMENDED BY MANUFACTURER. BOTH RATE AND FORMULATION MUST BE APPROVED BY FIELD ENGINEER PRIOR TO APPLICATION.
- REMOVE WIRE BASKET AND FOLD BURLAP BACK FROM TOP OF ROOT BALL BEFORE BACKFILLING IS COMPLETE.
- ALL PRUNING TO FOLLOW STANDARD ARBORICULTURAL PRACTICES AS SPECIFIED BY INTERNATIONAL SOCIETY OF ARBORICULTURE.
- DO NOT ATTEMPT TO STRAIGHTEN A TREE THAT HAS BEEN PLANTED AT AN ANGLE WITH THE USE OF STAKING OR GUYING. DIG TREE AND REPLANT TO UPRIGHT POSITION.



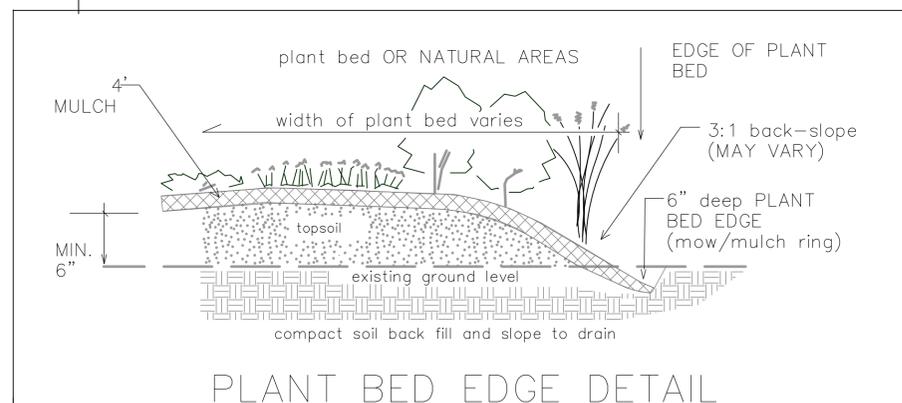
STAKING DETAIL  
(TREES 6'-10')

USE AS DIRECTED BY FIELD ENGINEER



GUYING DETAIL  
(TREES 10' OR LARGER)

USE AS DIRECTED BY FIELD ENGINEER

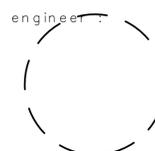


PLANT BED EDGE DETAIL



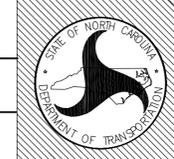
NCDOT – ROADSIDE ENVIRONMENTAL UNIT  
LANDSCAPE DESIGN & DEVELOPMENT  
1557 MAIL SERVICE CENTER, RALEIGH, NC 27699-1557  
PH: 919-707-2920 FAX: 919-715-2554  
[http://www.ncdot.org/doh/operations/dp\\_chief\\_eng/roadside/](http://www.ncdot.org/doh/operations/dp_chief_eng/roadside/)

Landscape Renovation/Enhancement reu engineer  
at I-40@NC 9 Interchange  
Black Mountain, NC  
project #: 3713.3.28

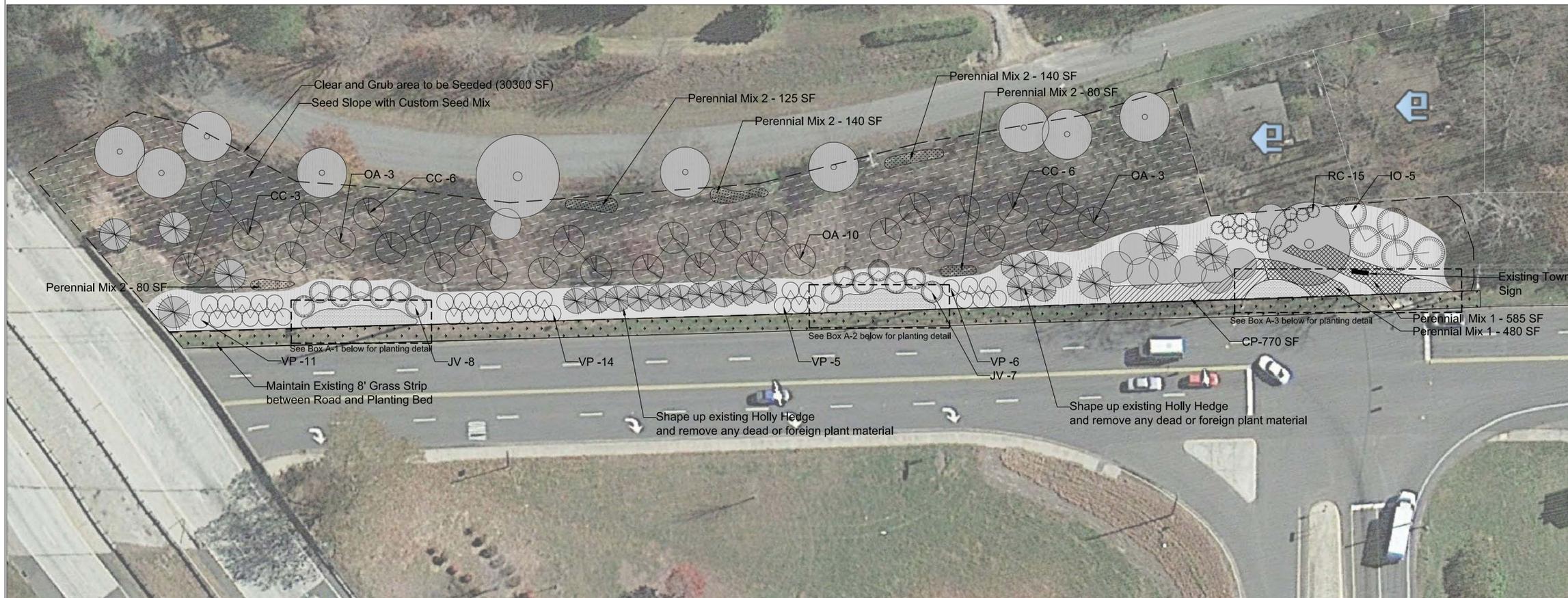


sheet description:	Planting Details

prel design date: December 8, 2014
checked by & date : Connie Morgan December 12, 2014
final design date : March 24, 2015



sheet no :  
**L-2**  
total sheet no : 3

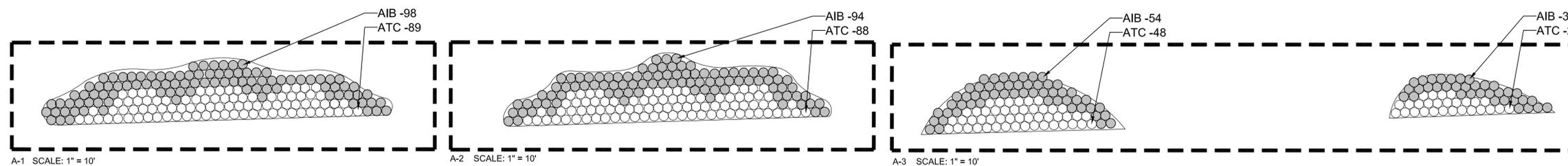


**LEGEND**

- Existing Evergreen Trees and Shrubs (to remain)
- Existing Deciduous Tree (to remain)
- Proposed Small Deciduous Tree
- Proposed Evergreen Tree
- Proposed Large Flowering Deciduous Shrub
- Proposed Evergreen Shrub
- Proposed Mulched Beds - (14550 SF Total)
- Custom Seed Mix - (30300 sf)
- Carex pennsylvanica - (770 SF Total)
- Perennial Mix 1 - Hellebore & Daffodils (1065 SF Total)
- Perennial Mix 2 - Asclepias plugs - (565 SF Total)
- Perennial Mix 3 - Asclepias containers - (1700 SF Total)
- Existing Turf Strip to Remain

- Notes:**
- Trees on Bank outside of designated mulch beds should be mulched individually
  - 700 SF of existing daylilies to be removed before grasses and perennial mix is installed
  - Perennial Mix 2 shall be installed as landscape plugs of an equal mix of the following species: *Asclepias tuberosa*, *Asclepias incarnata*, and *Asclepias syriaca*.
  - Asclepias* plugs on slope should be loosely installed according to specified spacing, but should NOT be planted in straight lines or on a rigid grid. Placement should resemble a more natural distribution.
  - Plugs on slope should be installed in Spring following a fall seeding of the slope.

PLANT MATERIALS						
Qty	Unit	Key	Botanical Name	Common Name	Furnish	ASNS
<b>Trees</b>						
16	ea	OA	<i>Oxydendron arboreum</i>	Sourwood	2 - 2 1/2" Caliper, Standard B&B, Straight Trunk, Matched Specimens	1.2.3
15	ea	CC	<i>Cercis canadensis</i>	Forest Pansy Eastern 'Forest Pansy'	2 - 2 1/2" Caliper, Standard B&B, Straight Trunk, Matched Specimens	1.2.3
5	ea	IO	<i>Ilex Opaca</i>	American Holly	8-9' B&B, heavily branched to the ground	4.2.5
15	ea	JV	<i>Juniperus virginiana</i> 'Burkii'	Burk Eastern Red Cedar	10-12' B&B, heavily branched to the ground	3.2.4
<b>Shrubs</b>						
36	ea	VP	<i>Viburnum plicatum</i> var. <i>tomentosum</i>	Doublefile viburnum	24-30", #7 Container	2.2.4
15	ea	RC	<i>Rhododendron catawbiense</i>	Catawba Rhododendron	24-30", #7 Container	4.2.4
<b>Groundcover</b>						
731	ea	CP	<i>Carex pennsylvanica</i>	Pennsylvania Sedge	4" Container, fully rooted	12.4
437	ea	HH	<i>Helleborus 'Red Racer'</i>	Lenten Rose	#1 Container, fully rooted	12.3
700	ea	NA	<i>Narcissus 'Carlton'</i>	Daffodil	RN III	10.19
232	ea	ATC	<i>Asclepias tuberosa</i>	Butterfly Weed	4" Container, fully rooted	18" O.C.
281	ea	AIB	<i>Asclepias incarnata</i> "Ice Ballet"	Swamp Milkweed	4" Container, fully rooted	18" O.C.
176	ea	ATP	<i>Asclepias tuberosa</i>	Butterfly Weed	LPSO plug	12" O.C.
176	ea	AI	<i>Asclepias incarnata</i>	Swamp Milkweed	LPSO plug	12" O.C.
176	ea	AS	<i>Asclepias syriaca</i>	Common Milkweed	LPSO plug	12" O.C.



Custom Seed Mix to be applied at a rate of 50 lbs/acre

%	SPECIES	COMMON NAME
33%	<i>Festuca longifolia</i>	Godham Hard Fescue
23%	<i>Festuca Rubra</i> var. <i>rubra</i>	Foxfire Creeping Red Fescue
14%	<i>Festuca rubra</i> <i>commutata</i>	Brittany Cheewing Fescue
6%	<i>Festuca ovina</i>	Marco Polo Sheep Fescue
5.00%	<i>Schizachyrium scoparium</i>	Little Bluestem
2.00%	<i>Rudbeckia hirta</i>	Blackeyed Susan
2.00%	<i>Echinacea purpurea</i>	Purple Coneflower
1.00%	<i>Helianthus angustifolius</i>	Narrowleaf Sunflower
2.00%	<i>Bidens aristosa</i>	Tickseed
1.00%	<i>Penstemon laevigatus</i>	Appalachian Beardtongue
1.00%	<i>Monarda fistulosa</i>	Purple Bergamont
3.00%	<i>Asclepias tuberosa</i>	Butterfly Weed
3.00%	<i>Asclepias incarnata</i>	Swamp Milkweed
2.00%	<i>Liatris spicata</i>	Gayfeather
2.00%	<i>Aster cordifolius</i>	Blue Wood Aster

