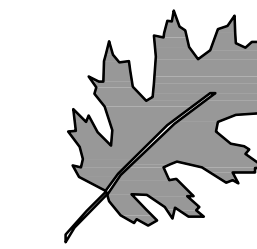


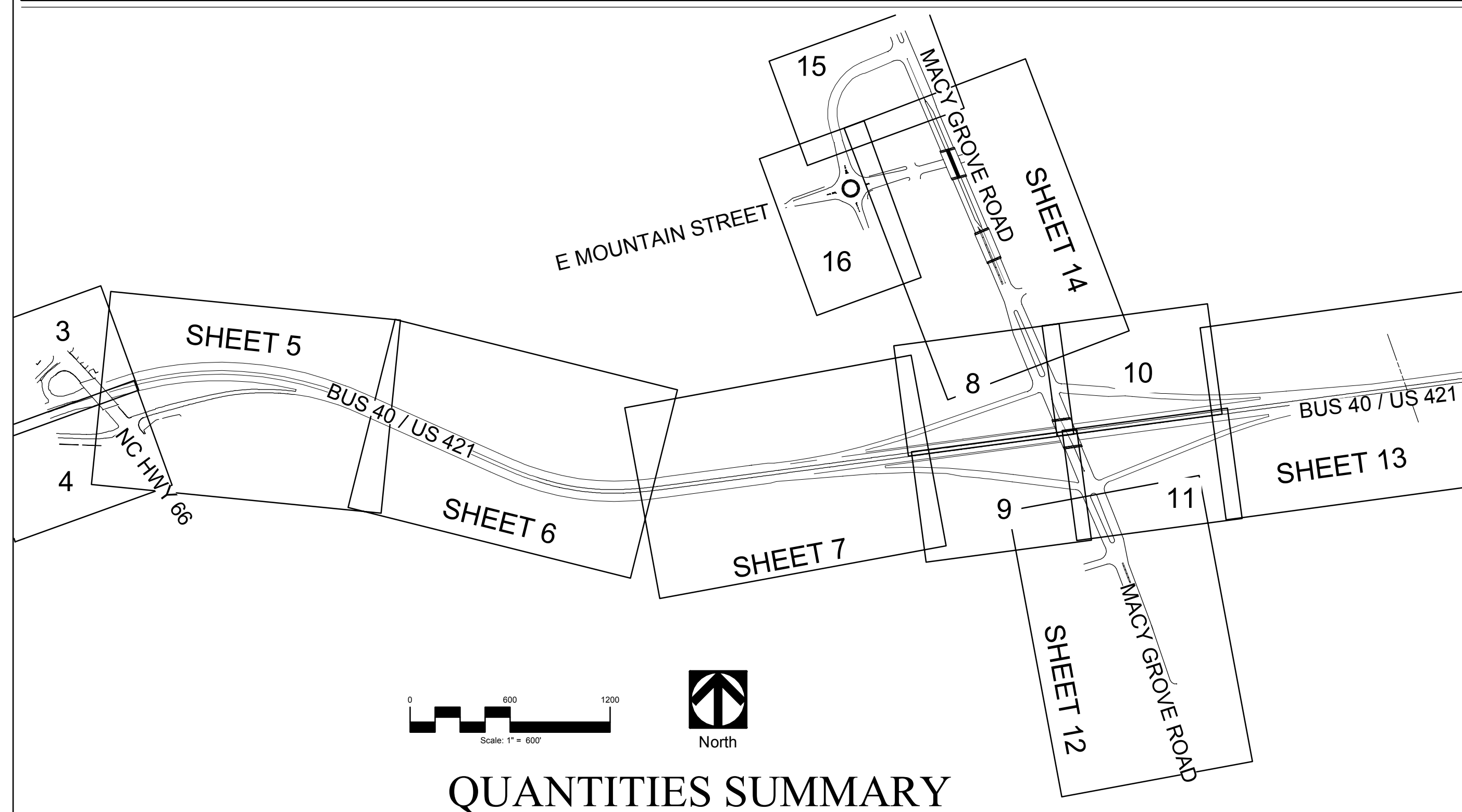
# PROPOSED HIGHWAY LANDSCAPE DEVELOPMENT PROJECT



T.I.P. #	STATE PROJECT W.B.S. #	SHEET #	SHEET # TOTAL
U-2800	34858.1.1	1	16
FED. PROJ. #	DESCRIPTION	DIVISION	
-	B40 / 421 FROM NC HWY 66 TO FORSYTH COUNTY LINE	9	

PROJECT: U-2800 NCDOT ROADWAY ENHANCEMENT

## SHEET LEGEND



## QUANTITIES SUMMARY

### Trees

CODE	Count	COMMON_NAME	BOTANICAL_NAME	CALIPER	HEIGHT	SPREAD	SPACING	COMMENTS
ABS	36	'Autum Brilliance' Serviceberry	Amelanchier x grandiflora 'Autumn Brilliance'	1" Min. Ea.	8-9'	----	----	BB, Multi-stem, White Flwrs
BLK	3	Black Gum	Nyssa sylvatica	2.5-3"	12-14'	----	----	BB, Specimen
CM	32	Muskogee Crape Myrtle	Lagerstroemia indica x fauriei 'Muskogee'	1-1.5" Each	10-12'	----	----	BB, Specimen
CSS	36	'Carolina Sapphire' Cypress	Cupressus arizonica 'Carolina Sapphire'	----	6' Min.	----	----	BB, Specimen, Full to Ground
FPR	52	'Forest Pansy' Redbud	Cercis canadensis 'Forest Pansy'	2" Min.	8-10'	----	----	BB, Specimen, Pink Flowers
HOG	15	'Hearts Of Gold' Redbud	Cercis canadensis 'Hearts of Gold'	1.5-2"	8-10'	----	12-15'	BB, Specimen, Lavender Flowers
SHU	14	Shumard Oak	Quercus shumardii	2.5-3"	12-14'	----	----	BB, Specimen
SNO	20	Snow Goose Cherry	Prunus x 'Snow Goose'	1.5-2"	8-10'	----	12-15'	BB, Specimen
VEN	40	Venus Dogwood	Cornus kousa x C. nutallii Venus	1.5-2"	8-10'	----	12-15'	BB, White Flwrs

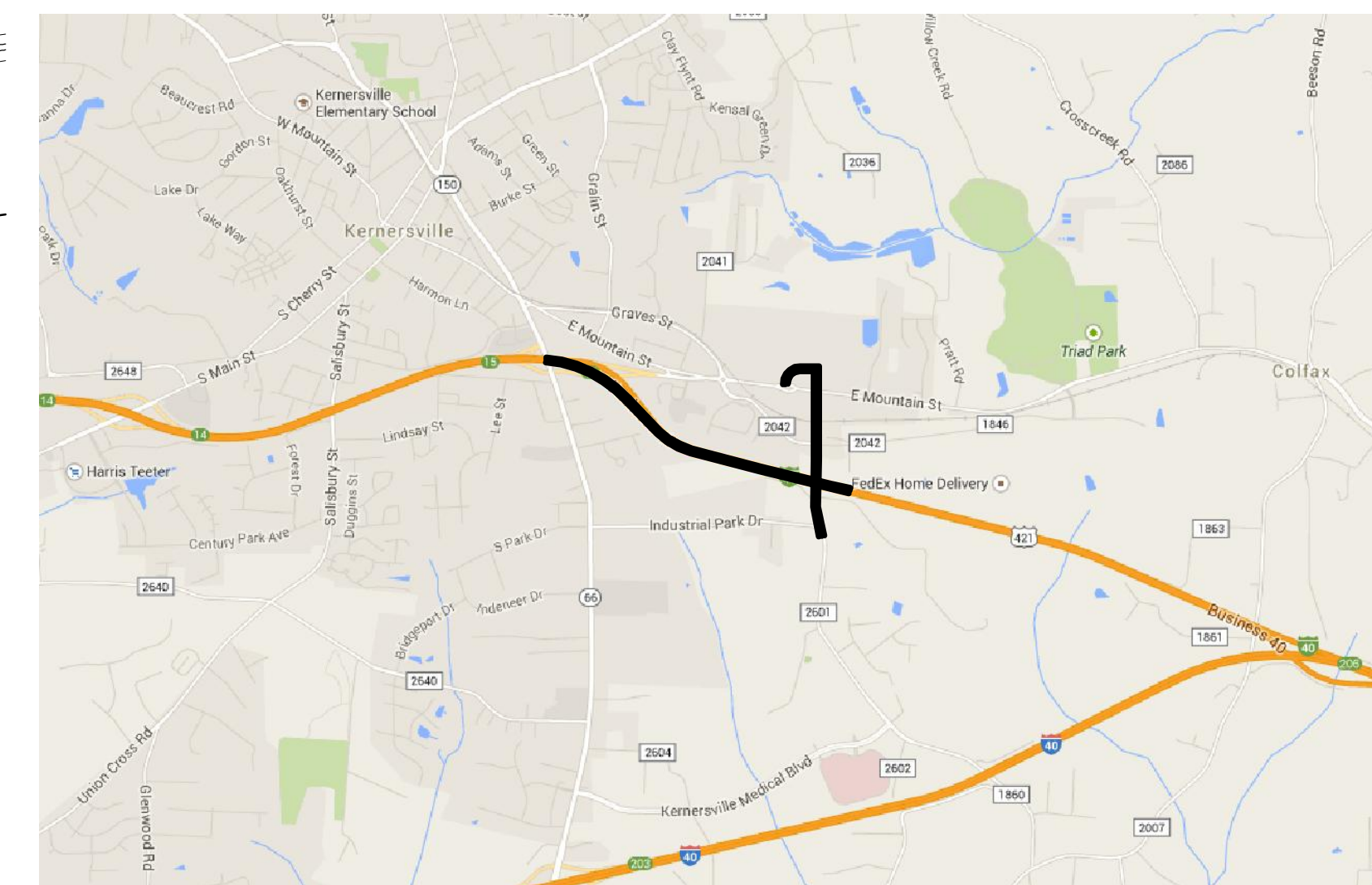
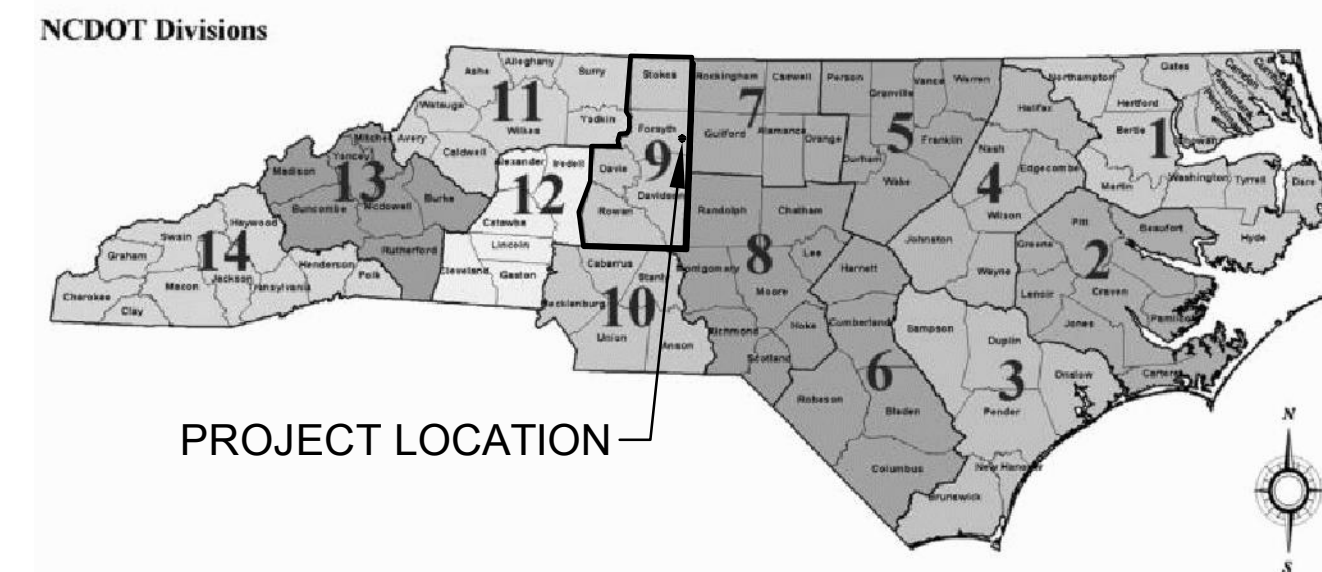
### Shrubs

CODE	Count	BOTANICAL_NAME	COMMON_NAME	HEIGHT	SPREAD	SPACING	NATIVE
BBY	200	Callicarpa americana	American Beautyberry	12-15"	15-24", #3 Cont.	5' o.c.	Yes
DAY	477	Hemerocallis 'Happy Returns'	'Happy Returns' Daylily	Full	Full, Qt. Cont.	18" o.c.	----
DBB	147	Euonymus alatus 'Compactus'	Dwarf Burning Bush	18-24"	24" Min, #3 Cont.	8' o.c.	----
GH	262	Ilex crenata 'Golden Helleri'	Golden Helleri Holly	12-15"	15-24", #3 Cont.	4' o.c.	----
HMP	70	Panicum virgatum 'Heavy Metal'	'Heavy Metal' Panicum	18-24"	18-24", #3 Cont.	5' o.c.	Yes
HYD	10	Hydrangea paniculata 'Limelight'	Limelight Hydrangea	18-24"	18-24", #3 Cont.	7' o.c.	----
MG	607	Muhlenbergia capillaris	Muhly Grass	15-18"	12-15", #1 Cont.	As Labeled	Yes
NWS	255	Panicum virgatum 'Northwind'	'Northwind' Swith Grass	15-18"	12-15", #3 Cont.	5' o.c.	Yes
VIB	95	Viburnum dentatum 'Chicago Lustre'	Arrowwood Viburnum	18-24"	18-24", #3 Cont.	8' o.c.	Yes
WEI	149	Variegated Weigela	Weigela florida 'Variegata'	18-24"	18-24", #3 Cont.	5' o.c.	----

### Key

NOTE	QUANTITY	DESCRIPTION
	1188 C.Y.	Total Mulch
A	2.00 AC.	Special Vegetative Removal & Pruning
B	0.50 AC.	Removal of Existing Plantings
B1	8	Removal of Small Flowering Trees
B2	9	Removal of Large Canopy Trees
F	9,242 LF	Zoysia Sod Strip Running Entire Length of Median (18" Min. Width)
H	0.89 AC.	Buffer Zone Vegetation Maintenance

## LOCATION



## NOTES

- A. SPECIAL VEGETATION REMOVAL AND PRUNING:** INCLUDES, BUT IS NOT LIMITED TO, REMOVAL OF ALL TREES MEASURING 4 CALIPER INCHES OR LESS (MEASURED 6 INCHES FROM THE GROUND), REMOVAL OF UNDERGROWTH, CLEAN UP AND REMOVAL OF TRASH AND DOWNED LIMBS/FALLEN TREES, PRUNE TO LIFT CANOPY TO EIGHT FOOT (8') CLEARANCE, REMOVE DEAD AND DAMAGED LIMBS, PERFORM WEED CONTROL, APPLYING POST AND PRE-EMERGENT HERBICIDES AS DIRECTED BY THE ENGINEER IN THE FIELD. SEE SPECIAL PROVISION.
- B. REMOVAL OF EXISTING TREES/PLANTINGS:** REMOVE ALL EXISTING TREES AND PLANTS AS SHOWN OR NOTED ON PLANS AND AS DIRECTED BY THE ENGINEER IN THE FIELD. GRIND STUMPS & FILL ANY DEPRESSIONS CREATED WITH TOPSOIL. GRADE AREA TO DRAIN AND SEED WITH APPROPRIATE SPECIES AS DIRECTED BY THE ENGINEER IN THE FIELD.
- C. SUPPLEMENTAL SEEDING AND TOP-DRESSING:** MOWED TURF AREAS LOCATED TO THE INSIDE OF THE RAMPS, BETWEEN THE EDGES OF PAVEMENT, THE NATURAL AREAS, AND/OR PLANT BEDS SHALL RECEIVE TOP-DRESSING AND SUPPLEMENTAL SEEDING.
- D. NOT IN USE**
- E. PROPOSED NEW PLANT BEDS AND RENOVATED PLANT BEDS:** PLANT BEDS ARE INDICATED AND LABELED ON THE PLANS. STAKE PLANT BED PERIMETERS FOR APPROVAL BY THE ENGINEER PRIOR TO BEGINNING OF WORK. INSTALL EROSION CONTROL DEVICES AS DIRECTED BY THE ENGINEER IN THE FIELD IF NEEDED. EXISTING PLANTS TO BE RETAINED, IF ANY, WILL BE IDENTIFIED ON THE PLANS OR BY THE ENGINEER IN THE FIELD. APPLY POST-EMERGENT HERBICIDE AND REPEAT AS NECESSARY TO ACHIEVE TOTAL KILL OF UNDESIRABLE VEGETATION. TAKE CARE NOT TO DAMAGE EXISTING VEGETATION TO BE RETAINED. REMOVE DEAD VEGETATIVE LAYER, TILL, AND RAKE TO SMOOTH AND LEVEL PLANT BED. IF TILLING IN THE VICINITY OF EXISTING TREES TO BE RETAINED DO NOT ENCROACH INTO AREA BENEATH DRUPLINE. TO PREVENT PROBLEMS FROM SHREDDING OF ROOTS, SMOOTHLY CUT ANY ROOTS ONE INCH OR GREATER THAT EXTEND BEYOND THE DRUPLINE INTO TILLED AREA. PLANT AS SHOWN ON PLANS.  
**NEW PLANTING AREAS:** MULCH ENTIRE PLANT BED. EXISTING PLANT BEDS OR AT TREE LINE: MULCH FIRST FIVE FEET EXTENDING FROM PLANT BED EDGE ONLY.
- F. ZOYSIA SOD STRIP IN MEDIAN:** SEE SPECIAL PROVISIONS FOR DETAILS.
- G. ENVIRONMENTAL BUFFER:** ALL WORK WITHIN THIS AREA MUST BE DONE MANUALLY, NO EQUIPMENT OTHER THAN HAND TOOLS. PRUNING FOREST VEGETATION ALLOWED PROVIDED THAT THE HEALTH AND FUNCTION OF THE FOREST VEGETATION IS NOT COMPROMISED. KEEP ANY AND ALL MACHINERY AND HEAVY EQUIPMENT OUT OF THESE AREAS AT ALL TIMES.  
**ONLY ALLOWED REMOVAL:** PRUNING FOREST VEGETATION PROVIDED THAT THE HEALTH AND FUNCTION OF THE FOREST VEGETATION IS NOT COMPROMISED. REMOVAL OF INDIVIDUAL TREES WHICH ARE IN DANGER OF CAUSING DAMAGE TO DWELLINGS, OTHER STRUCTURES, OR HUMAN LIFE. REMOVAL OF INDIVIDUAL TREES THAT ARE DEAD, DISEASED, OR DAMAGED.
- H. BUFFER ZONE VEGETATION MAINTENANCE:** LIMITED MAINTENANCE WITHIN THE ENVIRONMENTAL BUFFER. ALL WORK WITHIN THIS AREA MUST BE DONE MANUALLY, NO EQUIPMENT OTHER THAN HAND TOOLS. THE PERSON(S) RESPONSIBLE FOR APPLYING FERTILIZER OR PERSON(S) CONDUCTING THE APPLICATION OF FERTILIZER ON THIS PROJECT WITHIN THE JORDAN LAKE OR FALLS LAKE WATERSHED SHALL COMPLETE THE FOLLOWING WEB-BASED TRAINING PRIOR TO PERFORMING THIS WORK:  
<http://www.jordanlake.org/web/jordanlake/fertilizer-management>  
A CERTIFICATE OF COMPLETION MUST BE PRESENTED BY THE PERSON(S) RESPONSIBLE FOR FERTILIZER APPLICATION OR PERSON(S) CONDUCTING THE APPLICATION OF FERTILIZER PRIOR TO PERFORMING FERTILIZER APPLICATION ON THE PROJECT WITHIN THE LIMITS OF THE JORDAN LAKE OR FALLS LAKE WATERSHED. REFER TO NOTE "G" FOR ALLOWED REMOVAL.

## CONVENTIONAL SYMBOLS

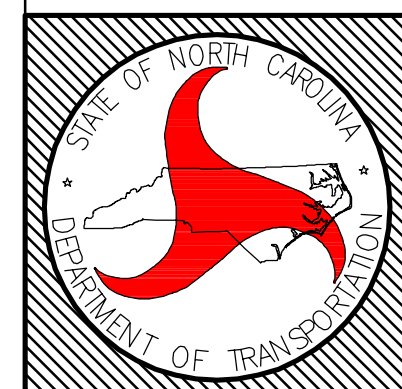
- EXISTING RIGHT-OF-WAY
- x-x- EXISTING FENCE
- o-o- EXISTING GUARDRAIL
- - - - PROJECT LIMITS
- - - - EXISTING TREELINE
- - - - CREEK / WATER CENTERLINE
- - - - STREAM / RIVER BANK
- - - - EXISTING OVERHEAD UTILITIES
- - - - NEW PLANT BED LIMITS
- /// SHRUB MASSING
- EXISTING HIGHWAY SIGN
- MILE MARKERS (BASED OFF EXISTING SIGNS)
- EXISTING BRIDGE
- EXISTING EDGE OF PAVEMENT
- o-o- EXISTING GAS LINE EASEMENT

## INDEX OF SHEETS

- 1 ..... TITLE, DESCRIPTION, NOTES AND SUMMARY OF QUANTITIES
  - 2 ..... PLANTING DETAILS
  - 3- 16 .... LANDSCAPE PLANS
- NOTABLE PAGES:
- 3- 5 ..... HIGHWAY 66 INTERCHANGE
  - 8- 11 .... MACY GROVE INTERCHANGE

PREPARED BY:	KMB, TAG
PRELIMINARY DESIGN DATE:	July 14, 2015
FINAL DESIGN DATE:	September 10, 2015
REVISION DATE:	October 28, 2015

2012 NCDOT STANDARD SPECIFICATIONS



STATE OF  
**NORTH CAROLINA**  
DEPARTMENT OF TRANSPORTATION

LOCATION: NCDOT Roadway Enhancement at Macy Grove Road and US 421 Interchange

TYPE OF WORK: LANDSCAPE DEVELOPMENT

COUNTY: FORSYTH

DIVISION: 9  
ADDRESS: 375 Silas Creek Parkway, Winston-Salem, NC 27127

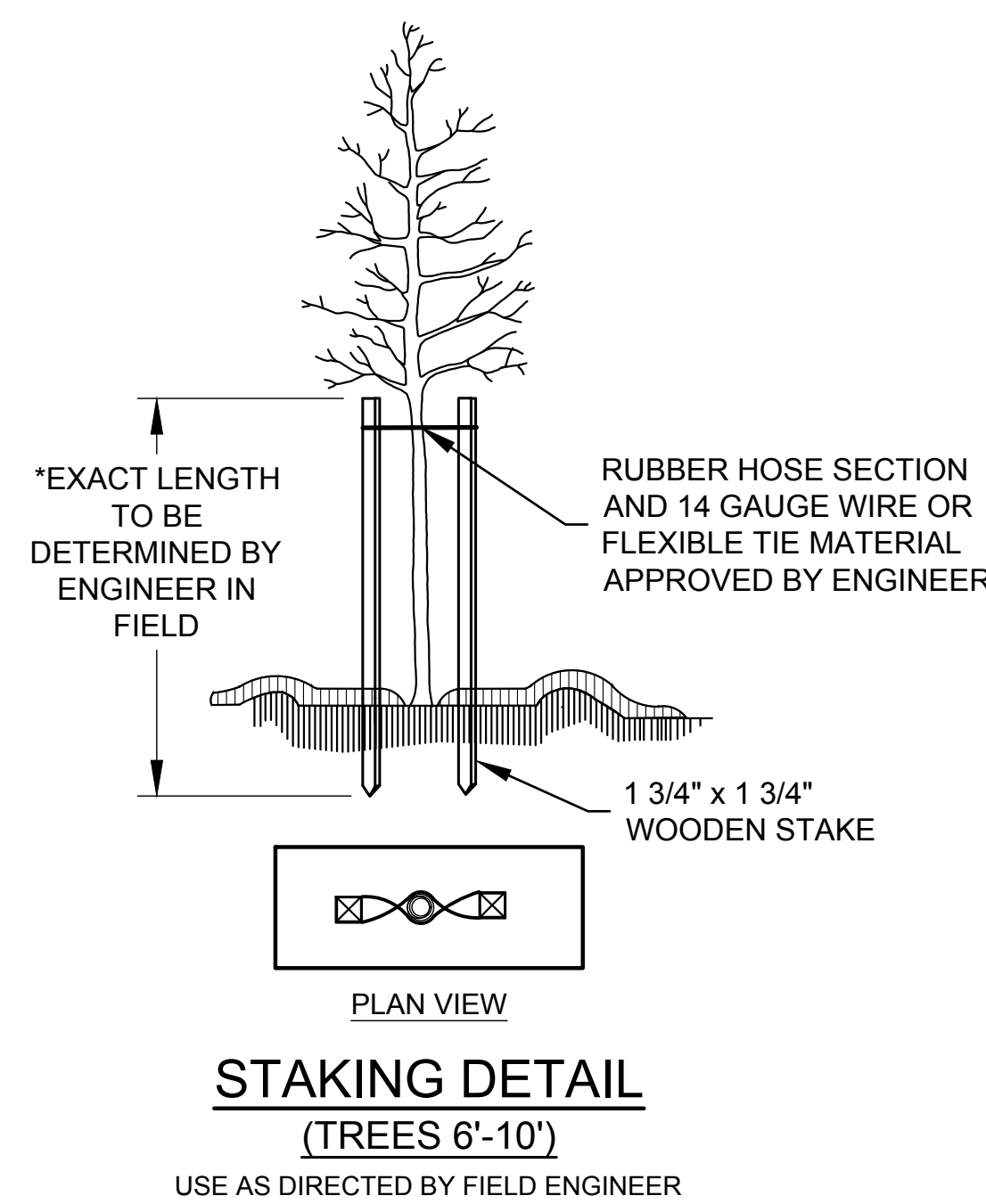
DIV. ENG: Pat Ivey, P.E.

DIV. ROADSIDE ENGINEER: Todd M. Hiatt, P.E.

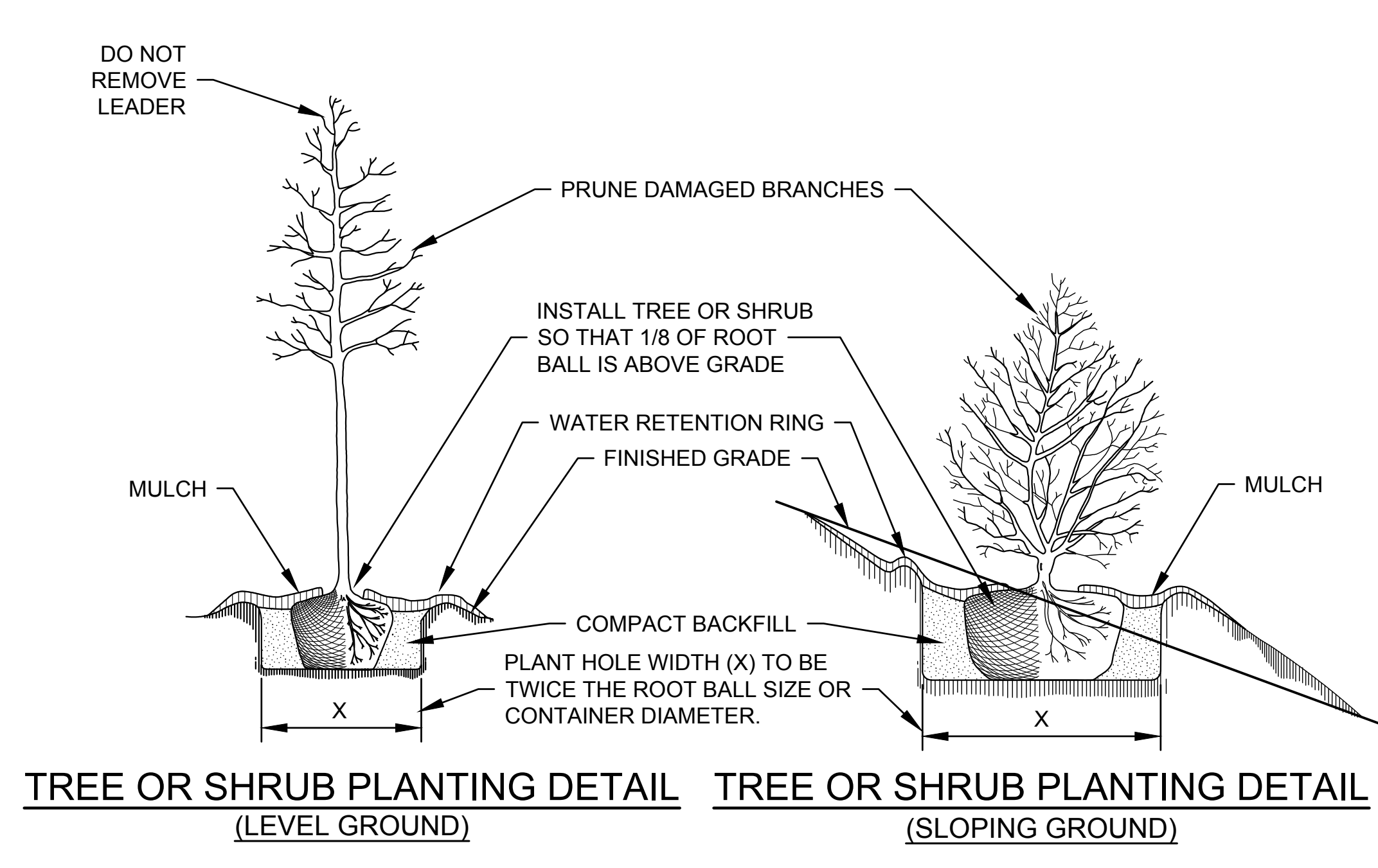
PREPARED IN THE OFFICE OF:

**stimmel** 601 N. TRADE STREET, SUITE 200 WINSTON-SALEM, NC 27101 www.stimmelpa.com 336.723.1067

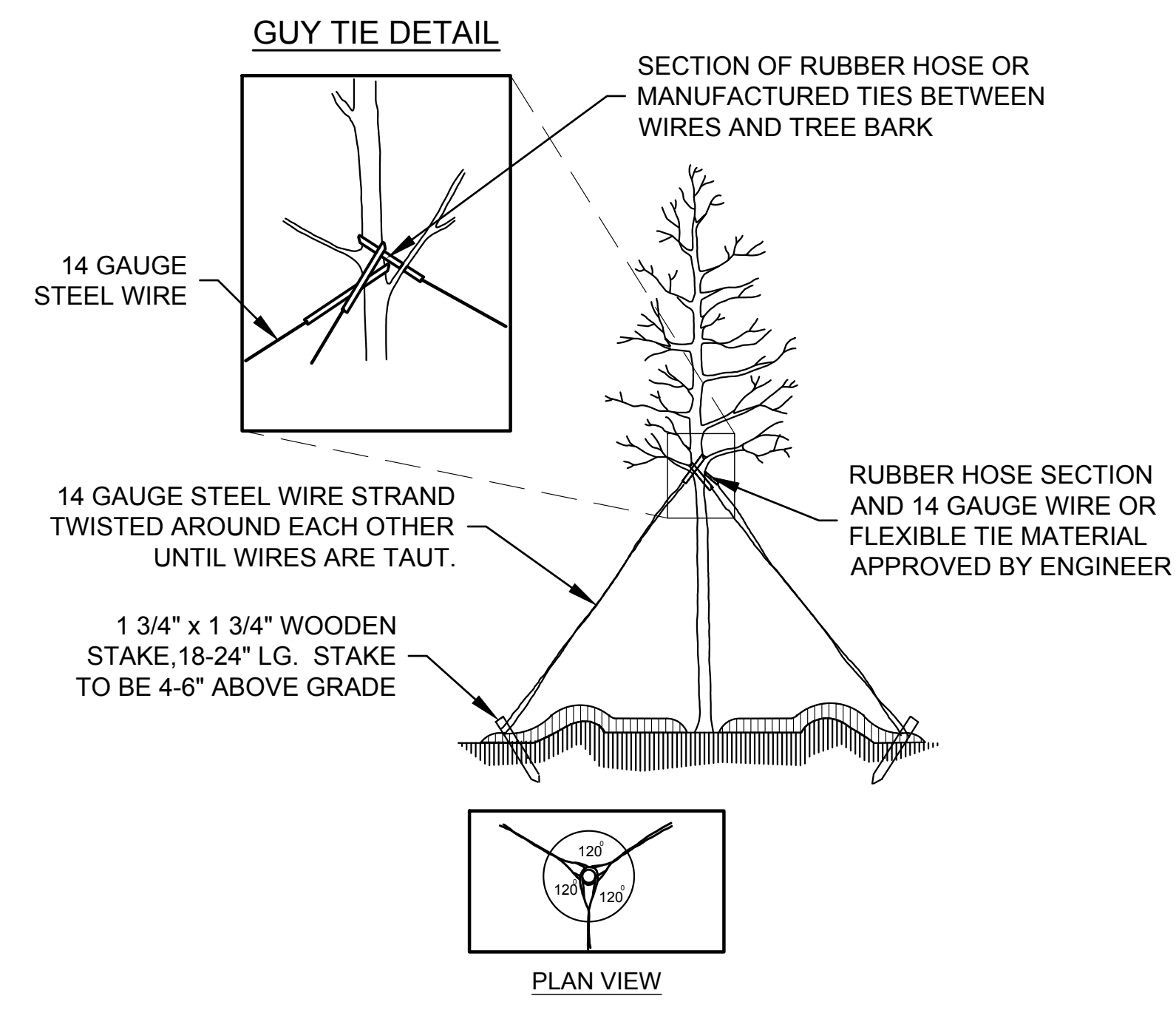
LANDSCAPE ARCHITECTURE CIVIL ENGINEERING LAND PLANNING



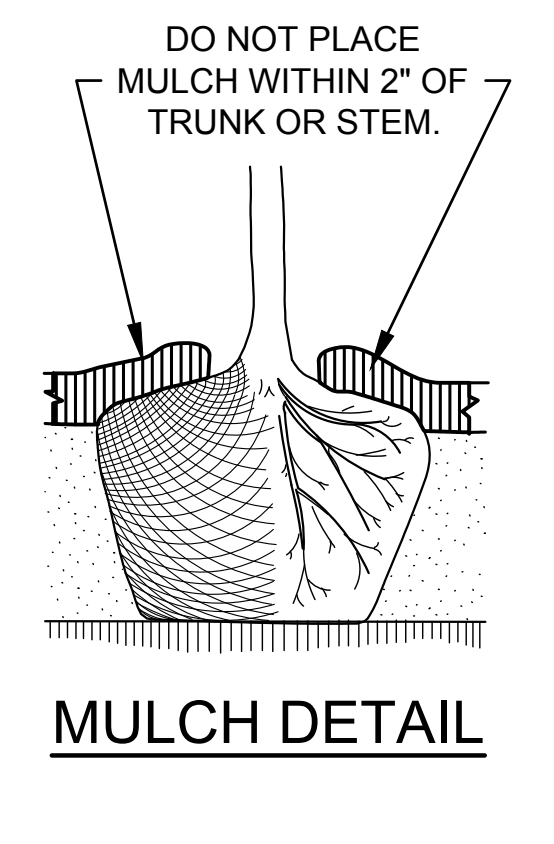
**STAKING DETAIL**  
(TREES 6'-10')  
USE AS DIRECTED BY FIELD ENGINEER



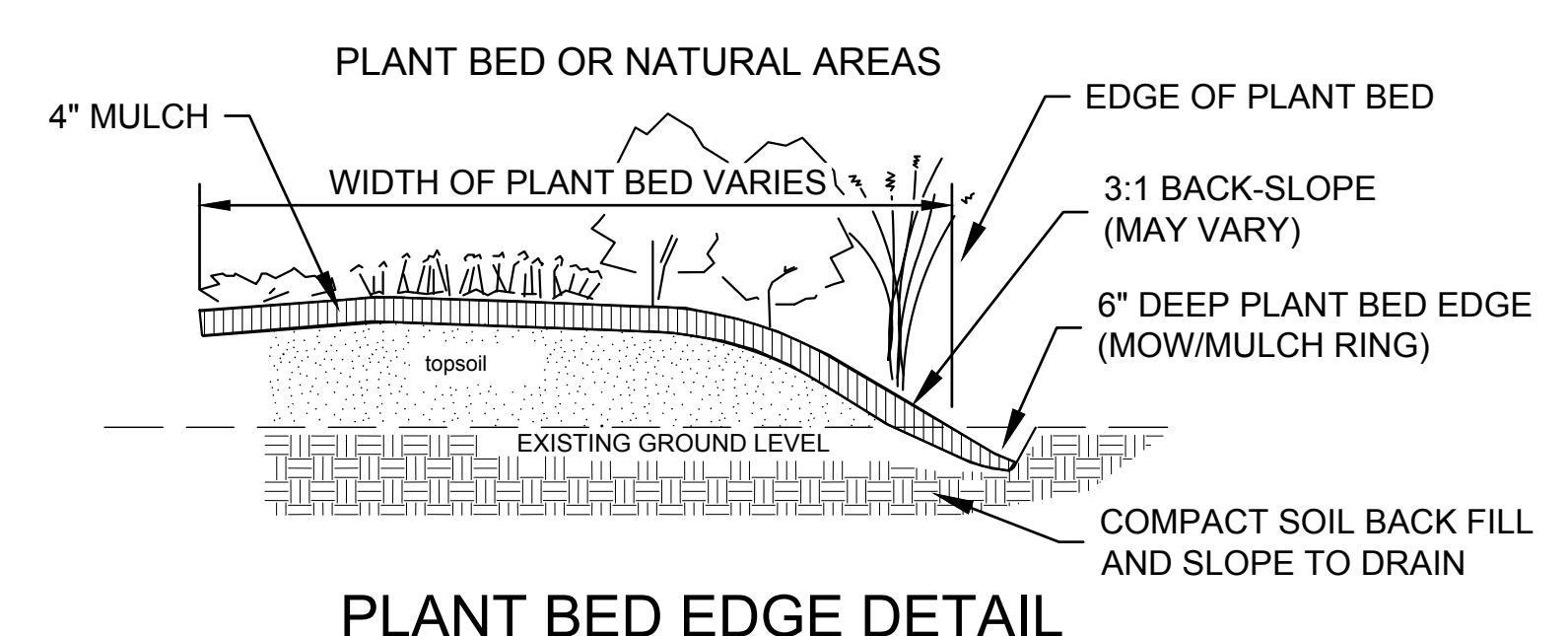
**TREE OR SHRUB PLANTING DETAIL**  
(LEVEL GROUND) (SLOPING GROUND)



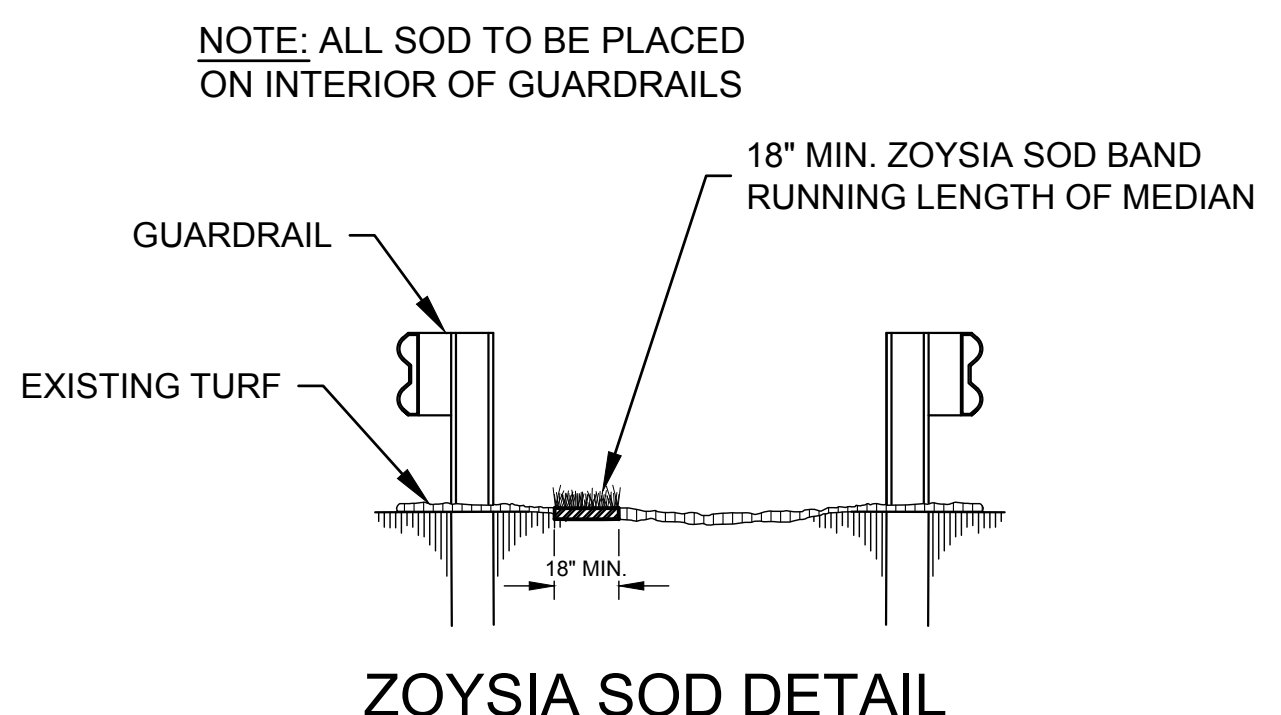
**GUYING DETAIL**  
(TREES 10' OR LARGER)  
USE AS DIRECTED BY FIELD ENGINEER



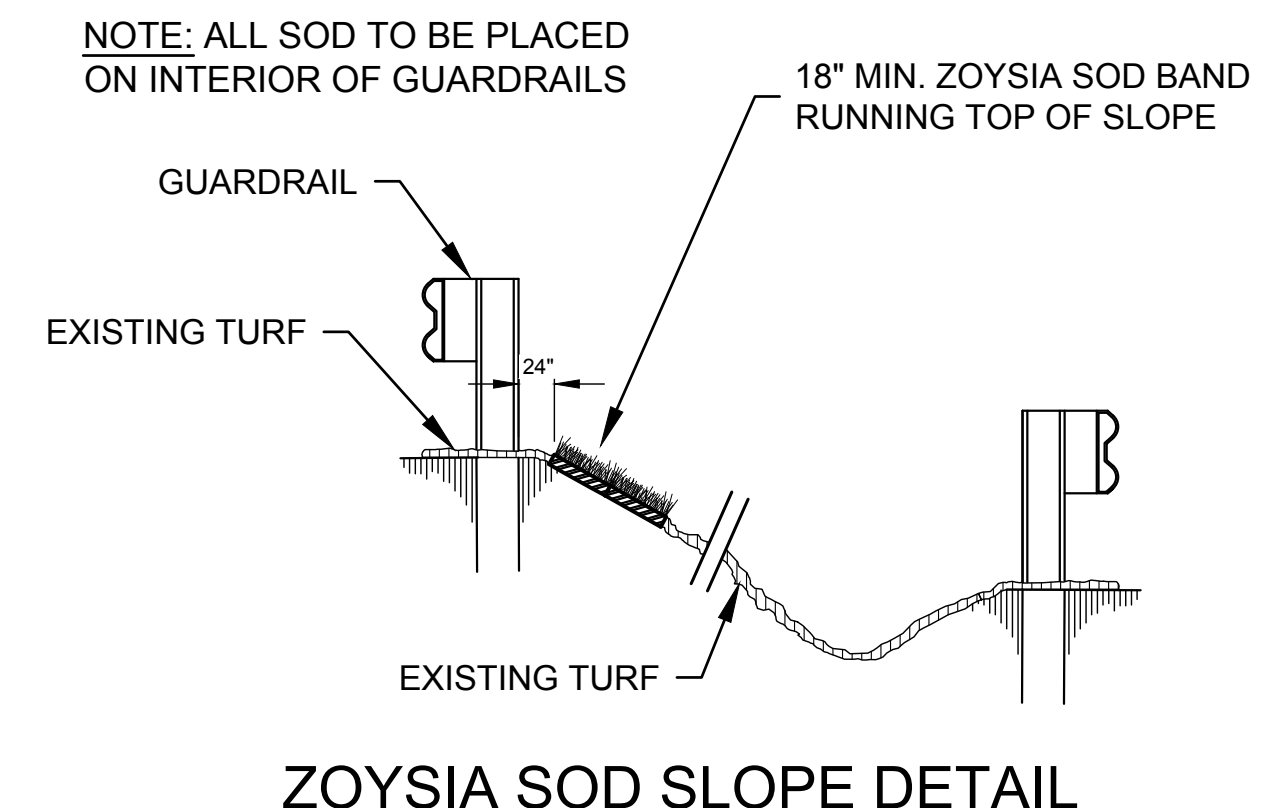
**MULCH DETAIL**



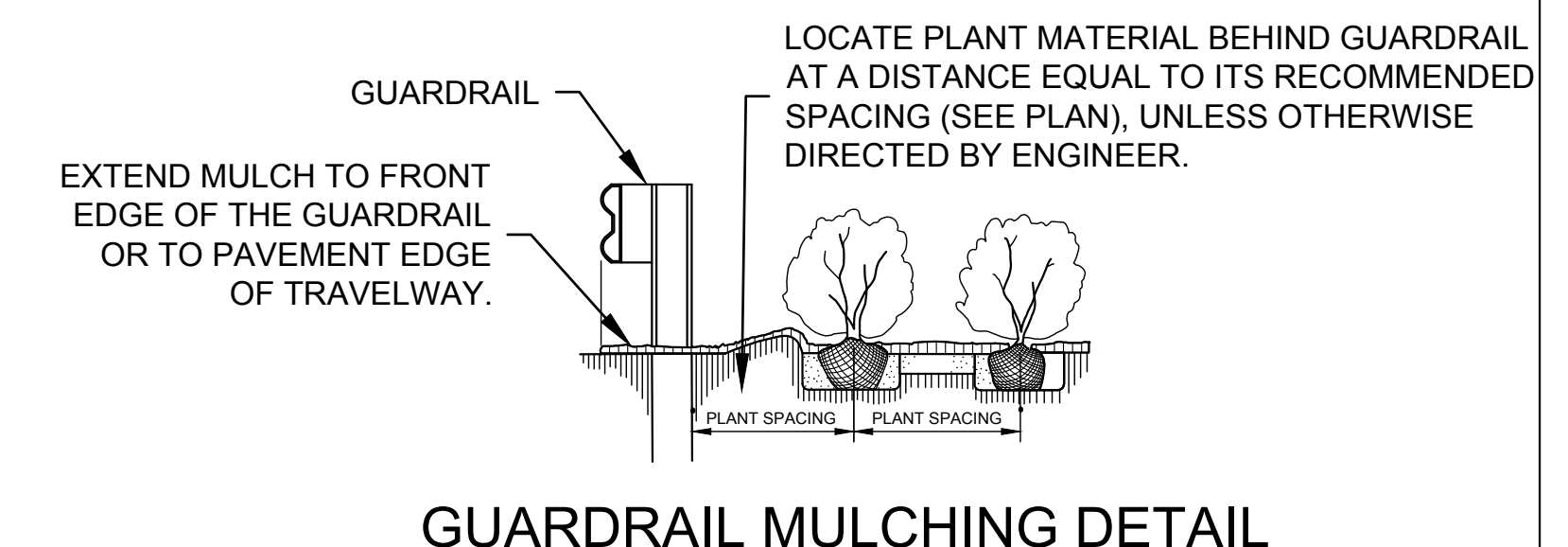
**PLANT BED EDGE DETAIL**



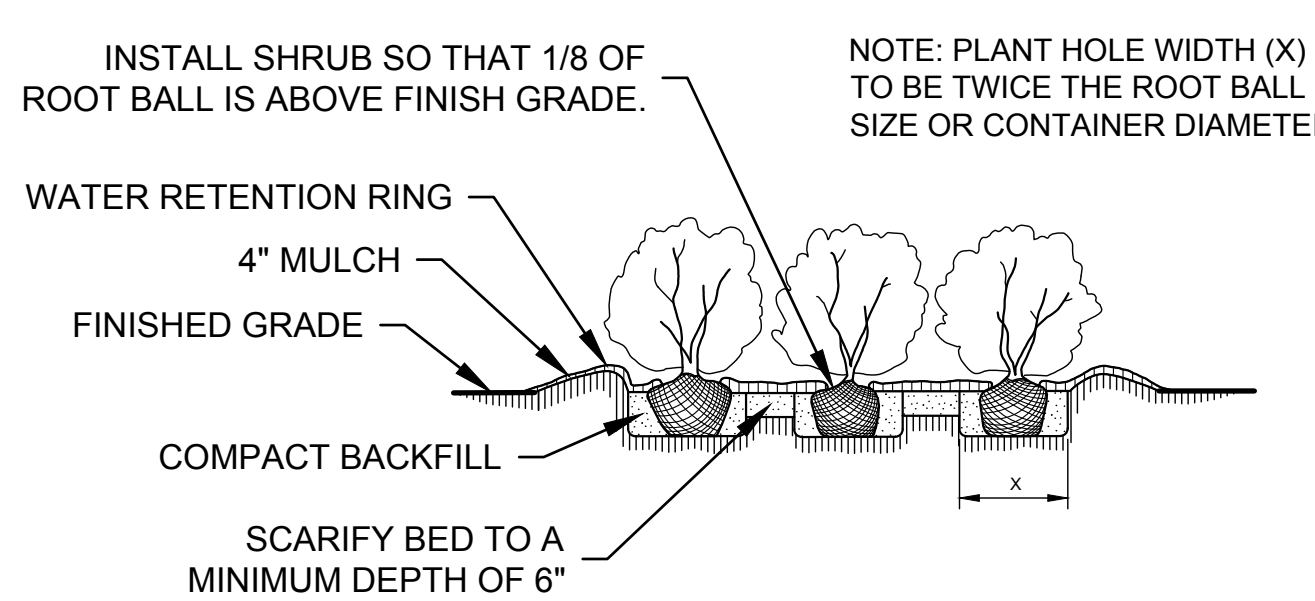
**ZOYSIA SOD DETAIL**  
USE AS DIRECTED BY FIELD ENGINEER



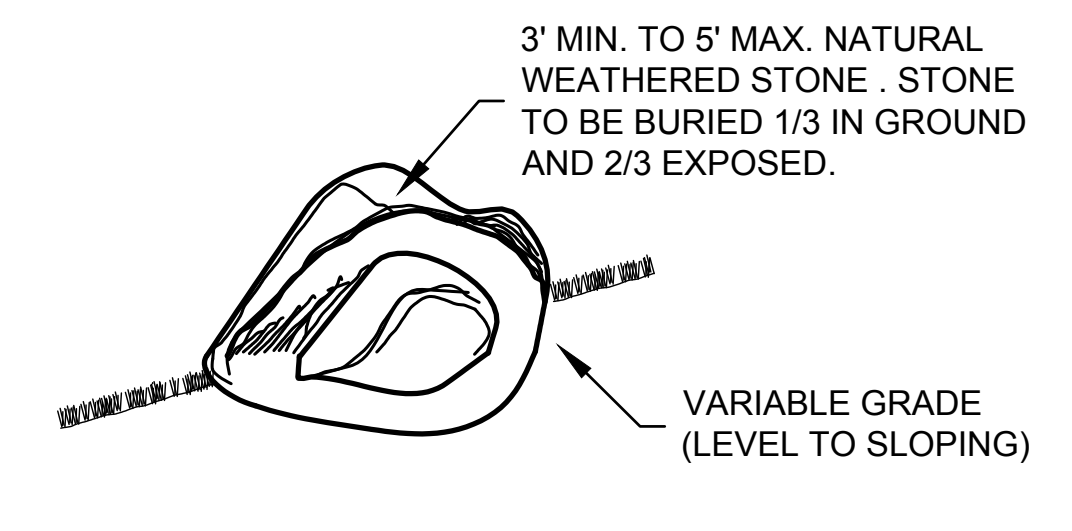
**ZOYSIA SOD SLOPE DETAIL**  
USE AS DIRECTED BY FIELD ENGINEER



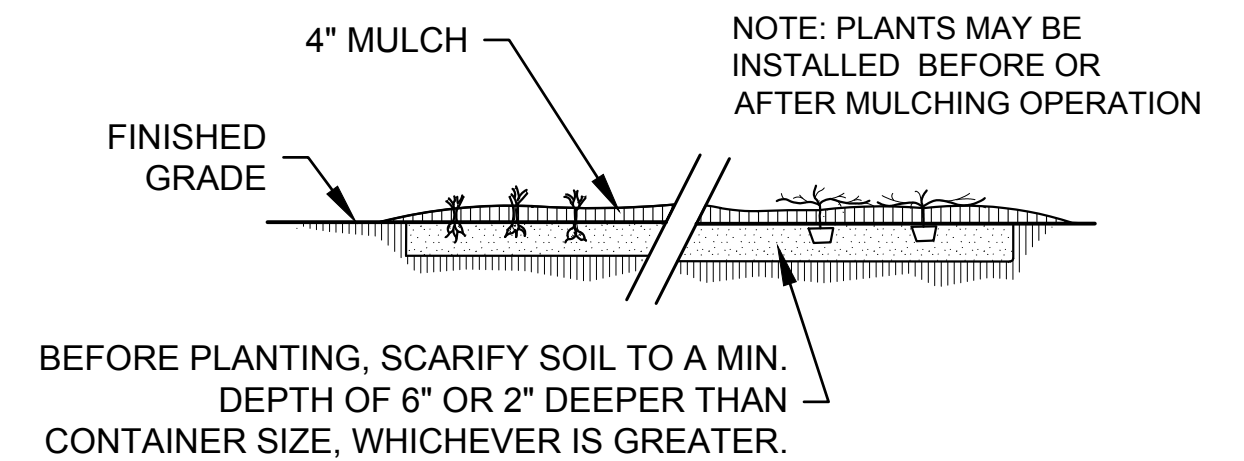
**GUARDRAIL MULCHING DETAIL**  
USE AS DIRECTED BY FIELD ENGINEER



**SHRUB BED PLANTING DETAIL**



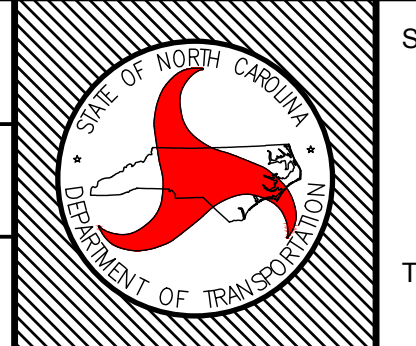
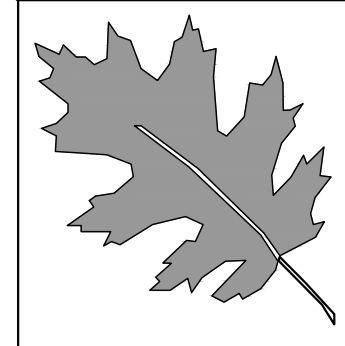
**BOULDER PLACEMENT DETAIL TYPICAL**



**GROUND COVER/ BEDDING PLANT DETAIL**

**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 PELLETT 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.



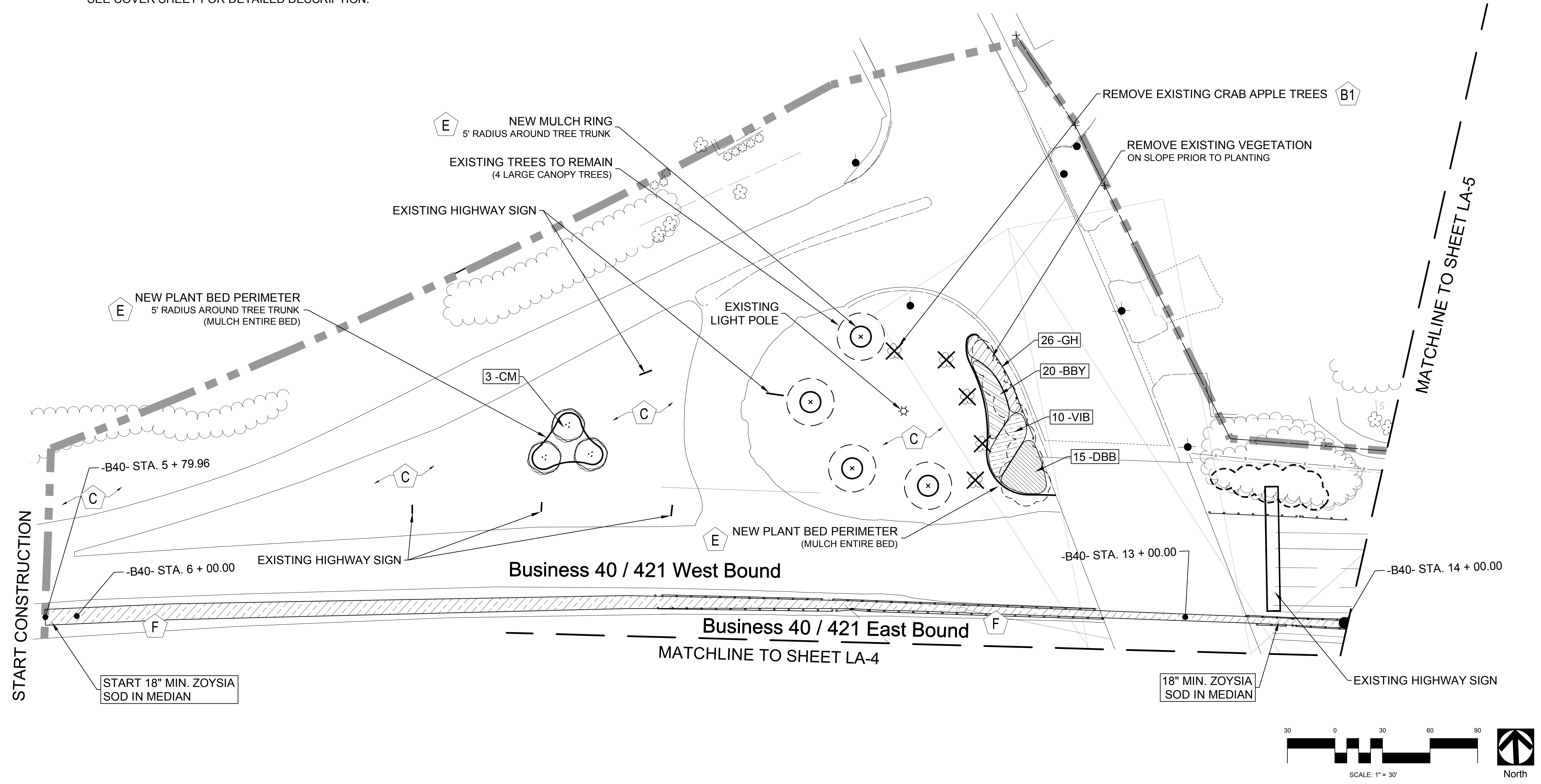
**PLANT KEY**

CODE	Count	BOTANICAL_NAME	COMMON_NAME	SPACING
BBY	20	Callicarpa americana	American Beautyberry	5' o.c.
DBB	15	Euonymus alatus 'Compactus'	Dwarf Burning Bush	8' o.c.
GH	26	Ilex crenata 'Golden Helli'	Golden Helli Holly	4' o.c.
VIB	10	Viburnum dentatum 'Chicago Lustre'	Arrowwood Viburnum	8' o.c.
CM	3	Lagerstroemia indica x fauriei 'Muskogee'	Muskogee Crape Myrtle	20-25' o.c.

NOTE	QUANTITY	DESCRIPTION
----	48.61 C.Y.	Mulch this sheet
B1	5 Trees	Removal of 5 Small Crab Apple Trees
F	Total Quantified on Cover Sheet	18" Min Zoysia Sod Planting in Median

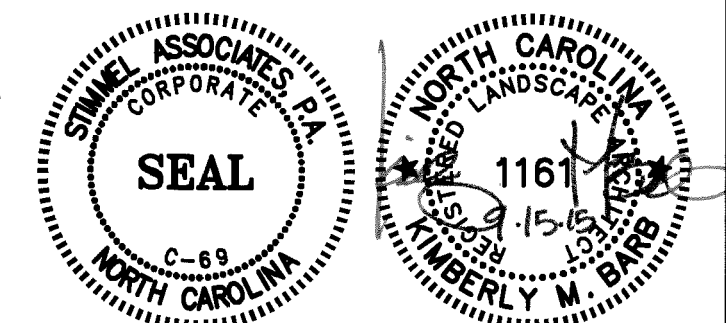
SEE COVER SHEET FOR DETAILED DESCRIPTION.




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**NCDOT Roadway Enhancement  
at Macy Grove Road  
and US 421 Interchange**



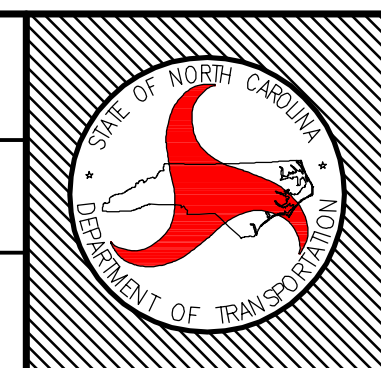
SEAL  
KIMBERLY M. BAIR  
1161  
NORTH CAROLINA  
C-69  
NORTH CAROLINA

**LANDSCAPE DEVELOPMENT**  
Landscape Planting

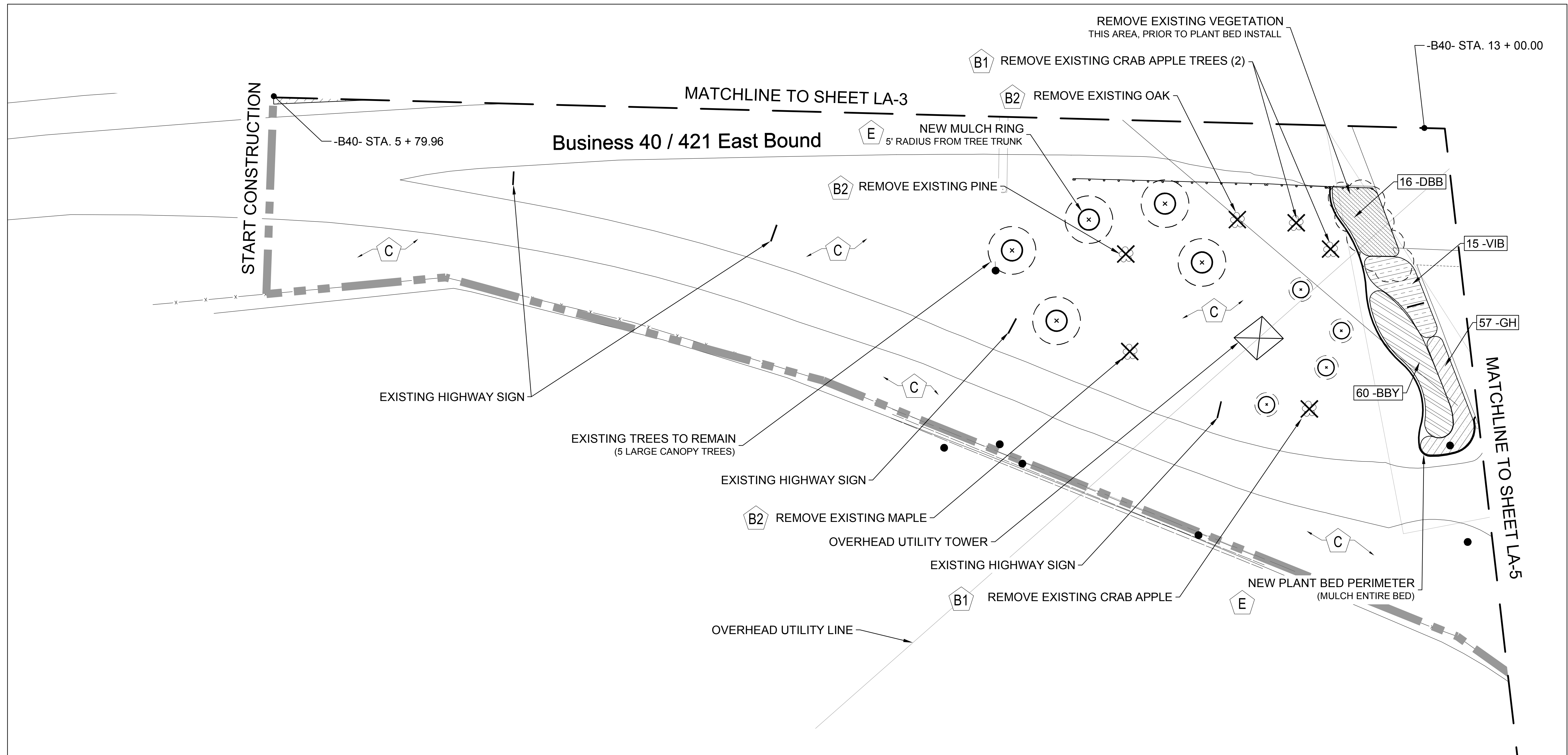
PRELIMINARY DESIGN DATE: APR. 31, 2015  
FINAL DESIGN DATE: SEPT. 10, 2015

PROJECT: U-2800 - WBS #: 34858.1.1

DIVISION AND COUNTY: Division 9 - Forsyth County



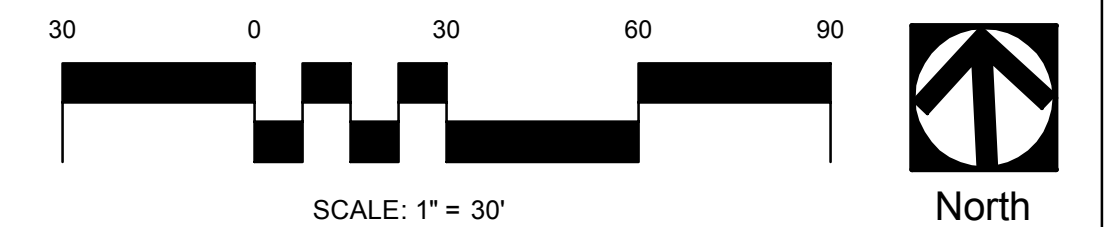
SHEET NO: **LA-3**  
TOTAL SHEET NO: 16



**PLANT KEY**

CODE	Count	BOTANICAL_NAME	COMMON_NAME	SPACING
BBY	60	Callicarpa americana	American Beautyberry	5' o.c.
DBB	16	Euonymus alatus 'Compactus'	Dwarf Burning Bush	8' o.c.
GH	57	Ilex crenata 'Golden Helleri'	Golden Helleri Holly	4' o.c.
VIB	15	Viburnum dentatum 'Chicago Lustre'	Arrowwood Viburnum	8' o.c.
NOTE	QUANTITY	DESCRIPTION		
---	75.92 C.Y.	Mulch this sheet		
B1	3 Small Trees	Removal of 3 Small Crab Apple Trees		
B2	3 Large Trees	Removal of 3 Large Canopy Trees		

SEE COVER SHEET FOR DETAILED DESCRIPTION.



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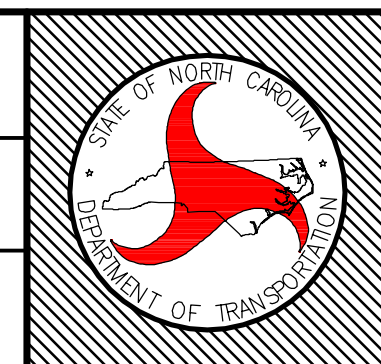
**NCDOT Roadway Enhancement  
at Macy Grove Road  
and US 421 Interchange**

**LANDSCAPE DEVELOPMENT**  
Landscape Planting

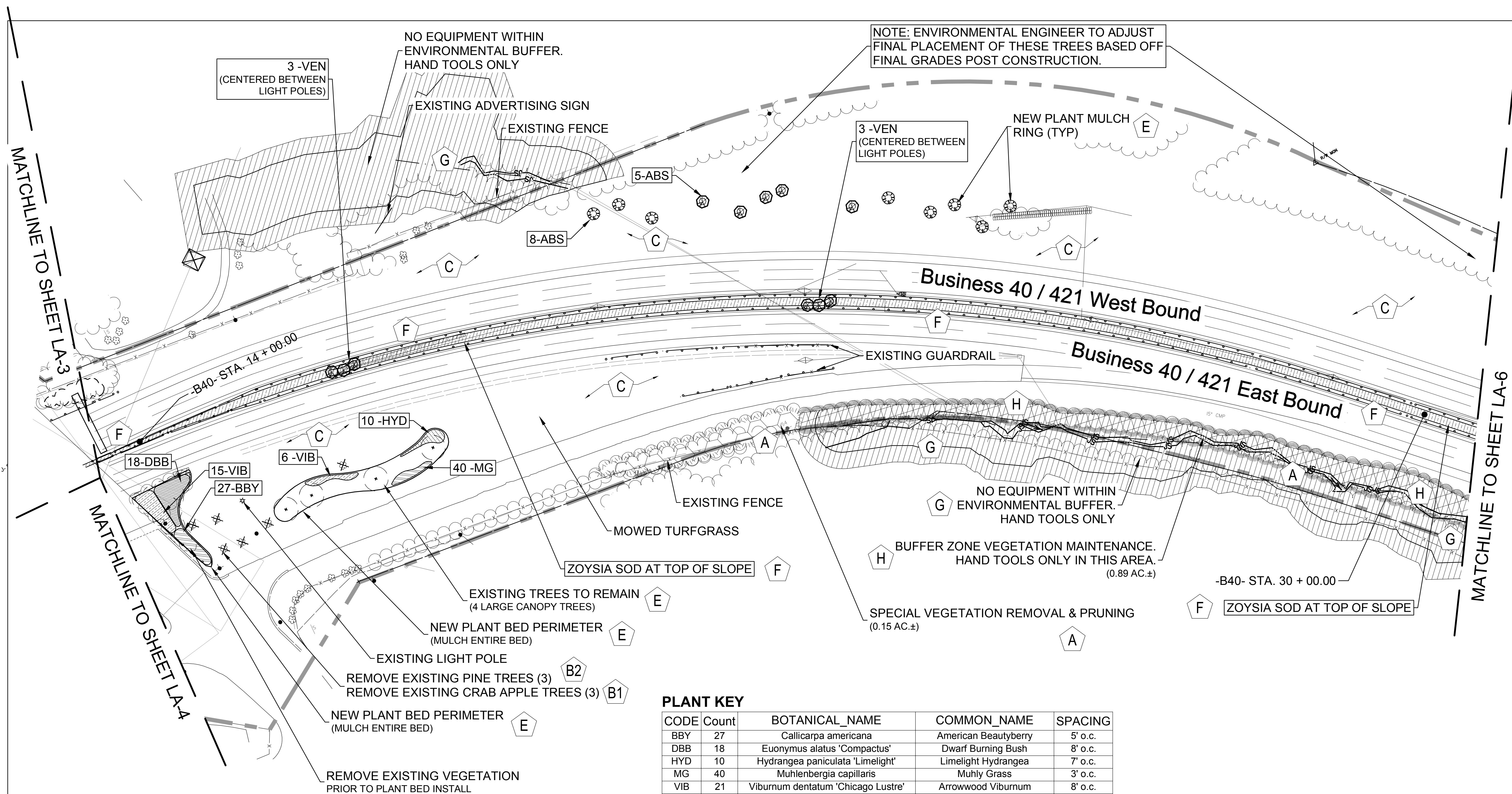
PRELIMINARY DESIGN DATE: APR. 31, 2015  
FINAL DESIGN DATE: SEPT. 10, 2015

PROJECT: U-2800 - WBS #: 34858.1.1

DIVISION AND COUNTY: Division 9 - Forsyth County



SHEET NO: **LA-4**  
TOTAL SHEET NO: 16



NOTE: ENVIRONMENTAL ENGINEER TO ADJUST FINAL PLACEMENT OF THESE TREES BASED OFF FINAL GRADES POST CONSTRUCTION.

3 -VEN  
(CENTERED BETWEEN  
LIGHT POLES)

NO EQUIPMENT WITHIN  
ENVIRONMENTAL BUFFER.  
HAND TOOLS ONLY

3 -VEN  
(CENTERED BETWEEN  
LIGHT POLES)

NEW PLANT MULCH  
RING (TYP)

EXISTING GUARDRAIL

NO EQUIPMENT WITHIN  
ENVIRONMENTAL BUFFER.  
HAND TOOLS ONLY

H BUFFER ZONE VEGETATION MAINTENANCE.  
HAND TOOLS ONLY IN THIS AREA.  
(0.89 AC.±)

A SPECIAL VEGETATION REMOVAL & PRUNING  
(0.15 AC.±)

F ZOYSIA SOD AT TOP OF SLOPE

E EXISTING TREES TO REMAIN  
(4 LARGE CANOPY TREES)

E NEW PLANT BED PERIMETER  
(MULCH ENTIRE BED)

B2 REMOVE EXISTING PINE TREES (3)

B1 REMOVE EXISTING CRAB APPLE TREES (3)

E NEW PLANT BED PERIMETER  
(MULCH ENTIRE BED)

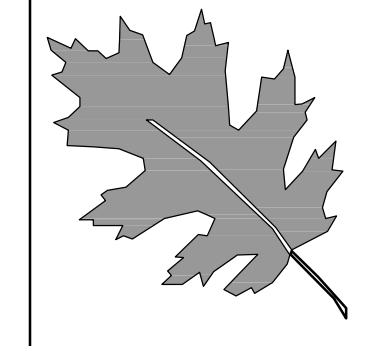
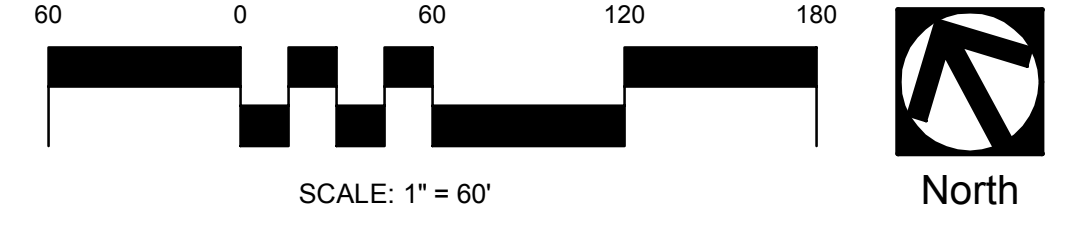
REMOVE EXISTING VEGETATION  
PRIOR TO PLANT BED INSTALL

**PLANT KEY**

CODE	Count	BOTANICAL_NAME	COMMON_NAME	SPACING
BBY	27	Callicarpa americana	American Beautyberry	5' o.c.
DBB	18	Euonymus alatus 'Compactus'	Dwarf Burning Bush	8' o.c.
HYD	10	Hydrangea paniculata 'Limelight'	Limelight Hydrangea	7' o.c.
MG	40	Muhlenbergia capillaris	Muhly Grass	3' o.c.
VIB	21	Viburnum dentatum 'Chicago Lustre'	Arrowwood Viburnum	8' o.c.
ABS	8	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	----
VEN	11	Cornus kousa x C. nutallii Venus	Venus Dogwood	15' o.c.

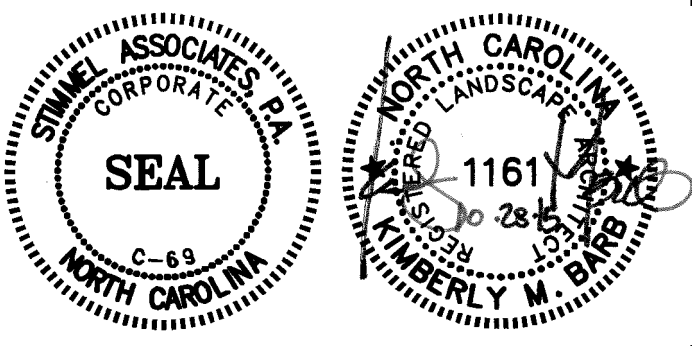
NOTE	QUANTITY	DESCRIPTION
----	264.59 C.Y.	Mulch this sheet
A	0.15 AC.±	Special Vegetation Removal & Pruning
B1	3 Small Trees	Removal of 3 Small Crab Apple Trees
B2	3 Large Trees	Removal of 3 Large Pine Trees
F	Total Quantified on Cover Sheet	18" Min Zoysia Sod Planting in Median
H	0.89 AC.±	Buffer Zone Vegetation Maintenance

SEE COVER SHEET FOR DETAILED DESCRIPTION.



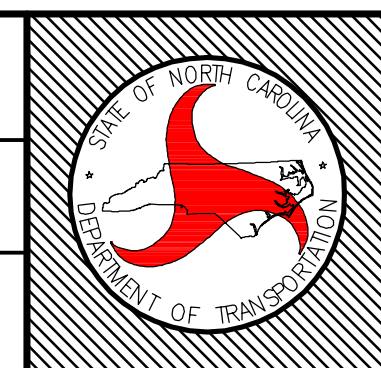
**stimmel**  
LANDSCAPE ARCHITECTURE CIVIL ENGINEERING LAND PLANNING  
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**NCDOT Roadway Enhancement  
at Macy Grove Road  
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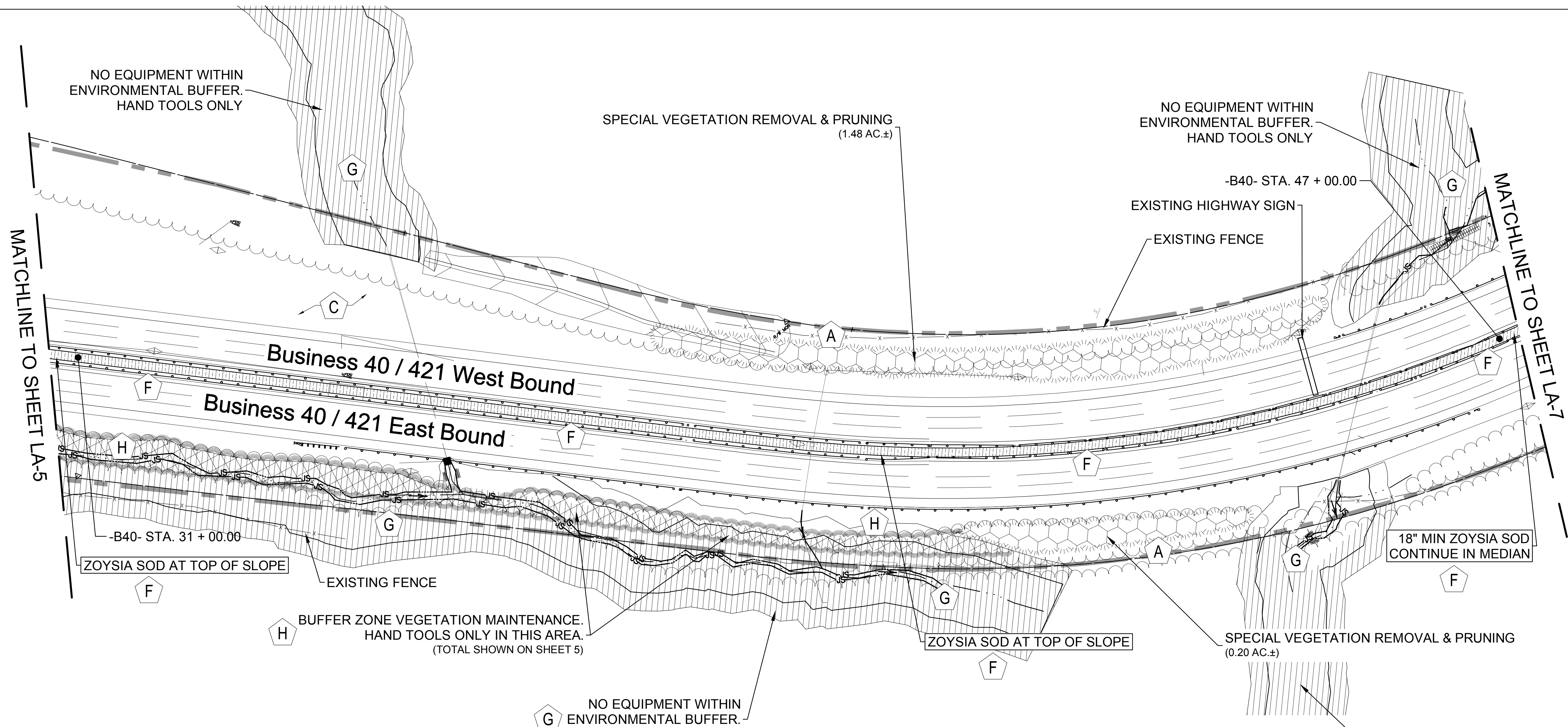


**LANDSCAPE DEVELOPMENT**  
Landscape Planting

PRELIMINARY DESIGN DATE: APR. 31, 2015  
FINAL DESIGN DATE: SEPT. 10, 2015  
PROJECT: U-2800 - WBS #: 34858.1.1  
DIVISION AND COUNTY: Division 9 - Forsyth County



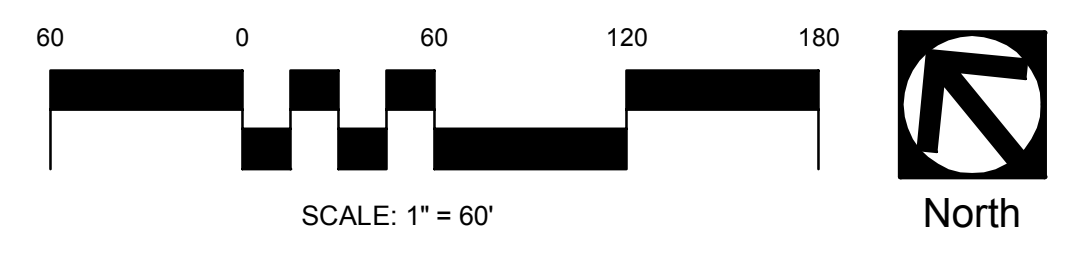
SHEET NO: **LA-5**  
TOTAL SHEET NO: 16



**PLANT KEY**

CODE	Count	BOTANICAL_NAME	COMMON_NAME	SPACING
NO NEW PLANTINGS THIS SHEET				
NOTE	QUANTITY	DESCRIPTION		
---	9.78 C.Y.	Mulch this sheet		
A	1.68 AC.±	Special Vegetation Removal & Pruning		
F	Total Quantified on Cover Sheet	18" Min Zoysia Sod Planting in Median		
H	Area Quantified on Sheet #5	Buffer Zone Vegetation Maintenance		

SEE COVER SHEET FOR DETAILED DESCRIPTION.



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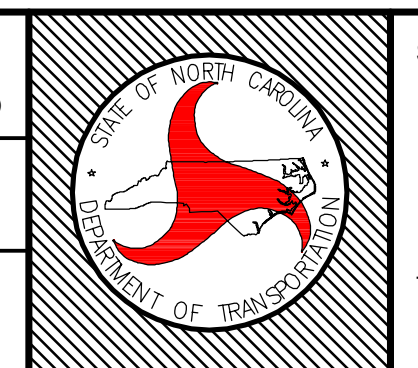
NCDOT Roadway Enhancement  
at Macy Grove Road  
and US 421 Interchange

SHEET DESCRIPTION:  
**LANDSCAPE DEVELOPMENT**  
Landscape Planting

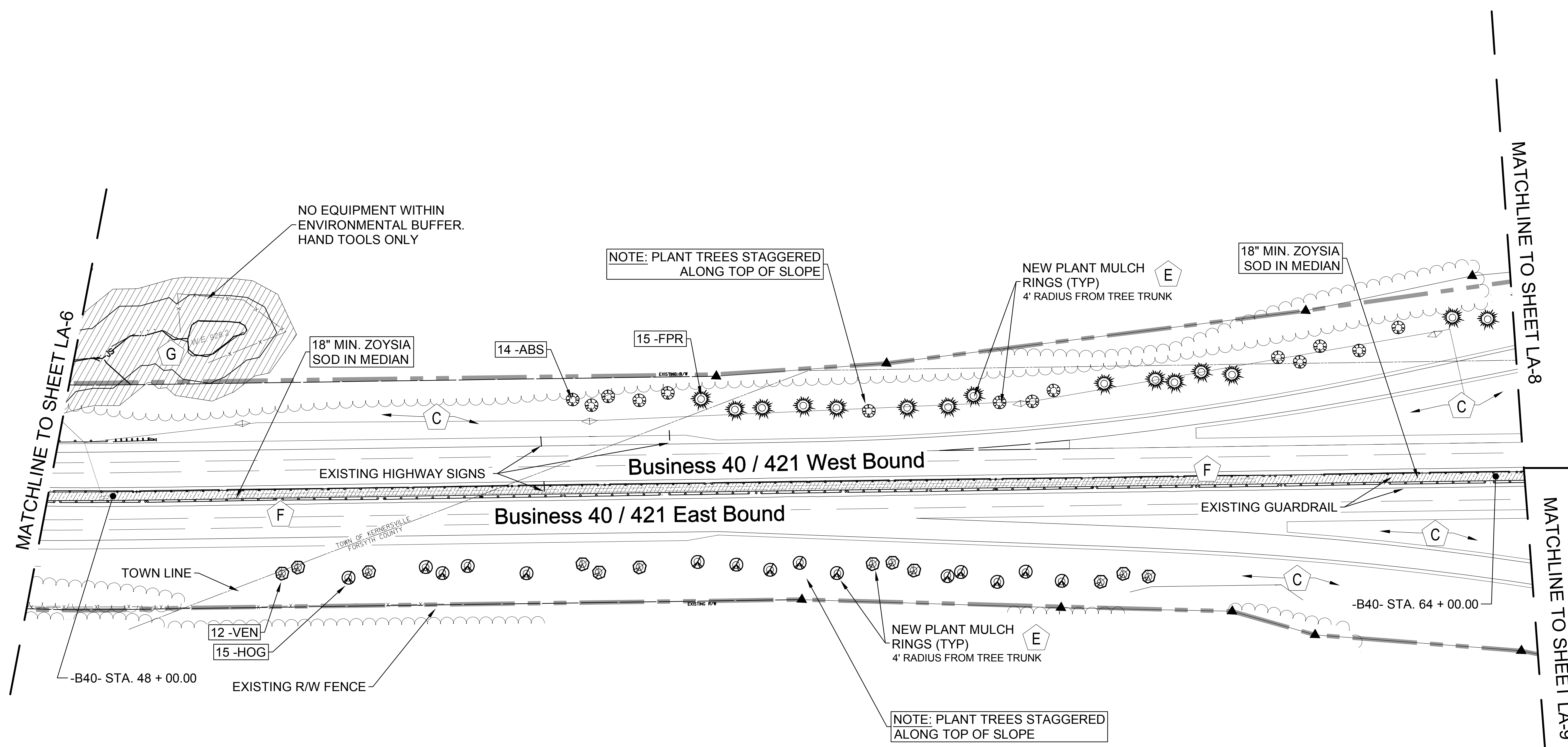
PRELIMINARY DESIGN DATE: APR. 31, 2015  
FINAL DESIGN DATE: SEPT. 10, 2015

PROJECT:  
U-2800 - WBS #: 34858.1.1

DIVISION AND COUNTY:  
Division 9 - Forsyth County



SHEET NO.:  
**LA-6**  
TOTAL SHEET NO.: 16

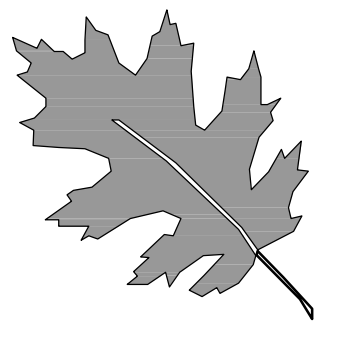
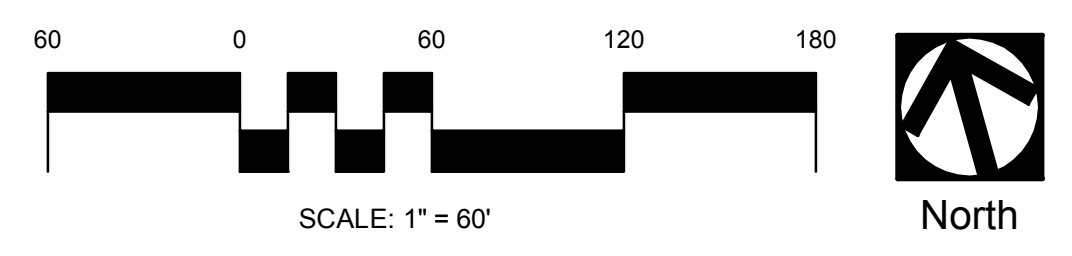


**PLANT KEY**

CODE	Count	BOTANICAL_NAME	COMMON_NAME	SPACING
ABS	14	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	----
FPR	15	Cercis canadensis 'Forest Pansy'	Forest Pansy Redbud	----
HOG	15	Cercis canadensis 'Hearts of Gold'	Hearts of Gold Redbud	----
VEN	12	Cornus kousa x C. nutallii Venus	Venus Dogwood	----

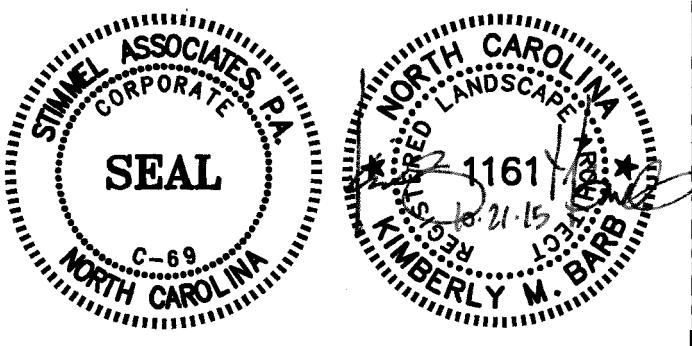
NOTE	QUANTITY	DESCRIPTION
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F	Total Quantified on Cover Sheet	18" Min Zoysia Sod Planting in Median

SEE COVER SHEET FOR DETAILED DESCRIPTION.



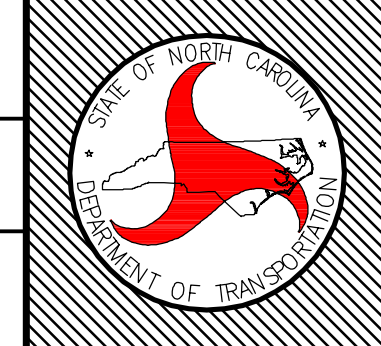
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**NCDOT Roadway Enhancement  
 at Macy Grove Road  
 and US 421 Interchange**



**LANDSCAPE DEVELOPMENT**  
 Landscape Planting

PRELIMINARY DESIGN DATE: APR. 31, 2015  
 FINAL DESIGN DATE: SEPT. 10, 2015  
 PROJECT: U-2800 - WBS #: 34858.1.1  
 DIVISION AND COUNTY: Division 9 - Forsyth County

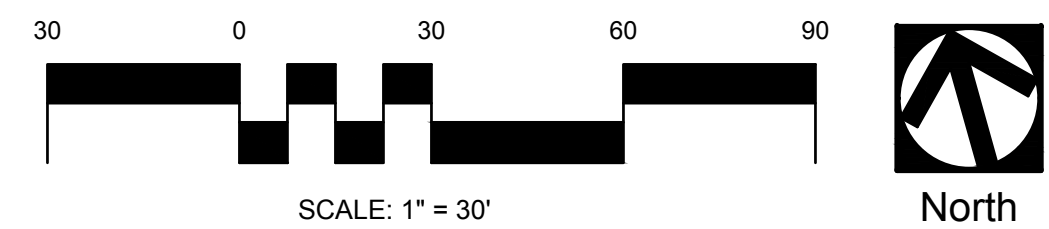
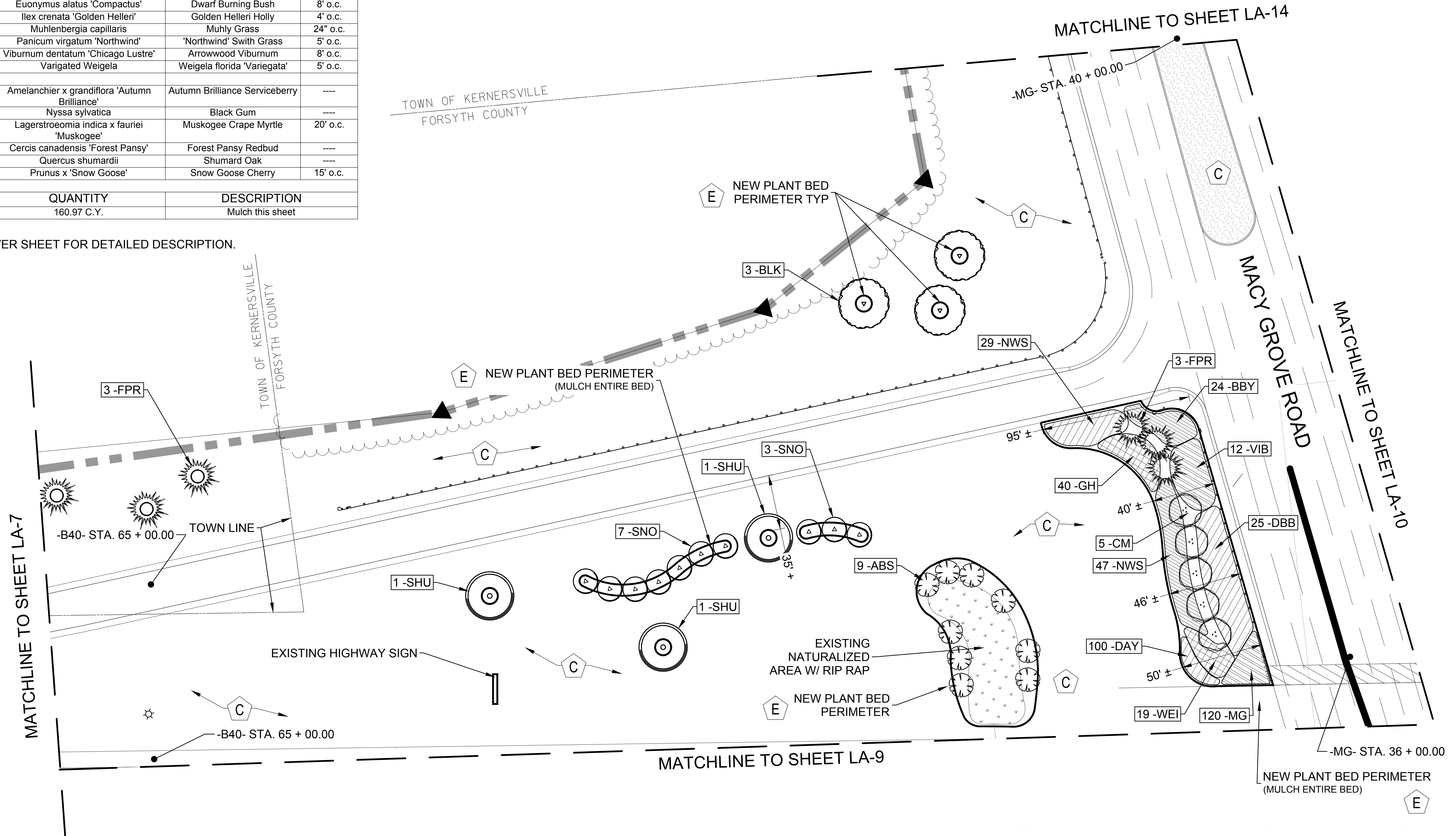


SHEET NO.: **LA-7**  
 TOTAL SHEET NO.: 16

**PLANT KEY**

CODE	Count	BOTANICAL_NAME	COMMON_NAME	SPACING
BBY	24	Callicarpa americana	American Beautyberry	5' o.c.
DAY	100	Hemerocallis 'Happy Returns'	'Happy Returns' Daylily	18" o.c.
DBB	25	Euonymus alatus 'Compactus'	Dwarf Burning Bush	8' o.c.
GH	40	Ilex crenata 'Golden Helli'	Golden Helli Holly	4' o.c.
MG	120	Muhlenbergia capillaris	Muhly Grass	24" o.c.
NWS	76	Panicum virgatum 'Northwind'	'Northwind' Swith Grass	5' o.c.
VIB	12	Viburnum dentatum 'Chicago Lustre'	Arrowwood Viburnum	8' o.c.
WEI	19	Varigated Weigela	Weigela florida 'Variegata'	5' o.c.
ABS	9	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	----
BLK	3	Nyssa sylvatica	Black Gum	----
CM	5	Lagerstroemia indica x fauriei 'Muskogee'	Muskogee Crape Myrtle	20' o.c.
FPR	6	Cercis canadensis 'Forest Pansy'	Forest Pansy Redbud	----
SHU	3	Quercus shumardii	Shumard Oak	----
SNO	10	Prunus x 'Snow Goose'	Snow Goose Cherry	15' o.c.
NOTE	QUANTITY	DESCRIPTION		
----	160.97 C.Y.	Mulch this sheet		

SEE COVER SHEET FOR DETAILED DESCRIPTION.



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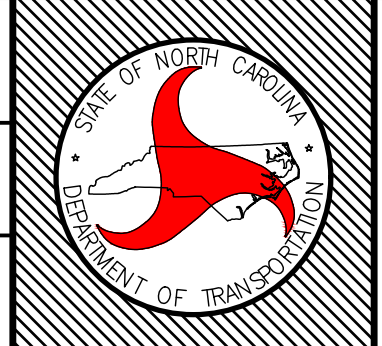
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NCDOT Roadway Enhancement  
at Macy Grove Road  
and US 421 Interchange

SHEET DESCRIPTION:  
**LANDSCAPE DEVELOPMENT**  
Landscape Planting

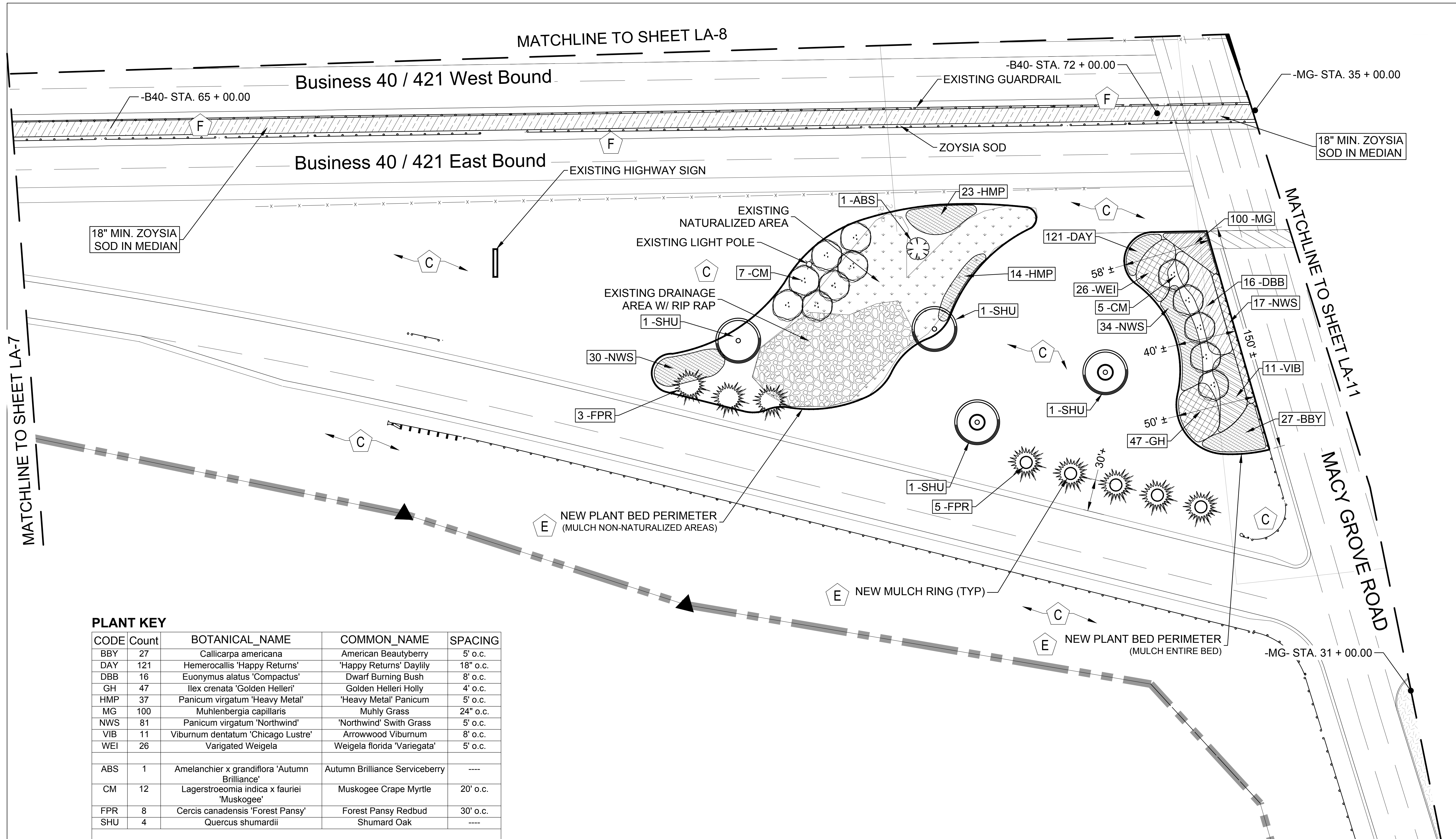
PRELIMINARY DESIGN DATE: APR. 31, 2015  
FINAL DESIGN DATE: SEPT. 10, 2015

PROJECT: U-2800 - WBS #: 34858.1.1  
DIVISION AND COUNTY: Division 9 - Forsyth County



SHEET NO: **LA-8**  
TOTAL SHEET NO: 16





**PLANT KEY**

CODE	Count	BOTANICAL_NAME	COMMON_NAME	SPACING
BBY	27	Callicarpa americana	American Beautyberry	5' o.c.
DAY	121	Hemerocallis 'Happy Returns'	'Happy Returns' Daylily	18" o.c.
DBB	16	Euonymus alatus 'Compactus'	Dwarf Burning Bush	8' o.c.
GH	47	Ilex crenata 'Golden Helli'	Golden Helli Holly	4' o.c.
HMP	37	Panicum virgatum 'Heavy Metal'	'Heavy Metal' Panicum	5' o.c.
MG	100	Muhlenbergia capillaris	Muhly Grass	24" o.c.
NWS	81	Panicum virgatum 'Northwind'	'Northwind' Swith Grass	5' o.c.
VIB	11	Viburnum dentatum 'Chicago Lustre'	Arrowwood Viburnum	8' o.c.
WEI	26	Variegated Weigela	Weigela florida 'Variegata'	5' o.c.
ABS	1	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	----
CM	12	Lagerstroemia indica x fauriei 'Muskogee'	Muskogee Crape Myrtle	20' o.c.
FPR	8	Cercis canadensis 'Forest Pansy'	Forest Pansy Redbud	30' o.c.
SHU	4	Quercus shumardii	Shumard Oak	----

NOTE	QUANTITY	DESCRIPTION
----	175.35 C.Y.	Mulch this sheet
F	Total Quantified on Cover Sheet	18" Min Zoysia Sod Planting in Median

SEE COVER SHEET FOR DETAILED DESCRIPTION.

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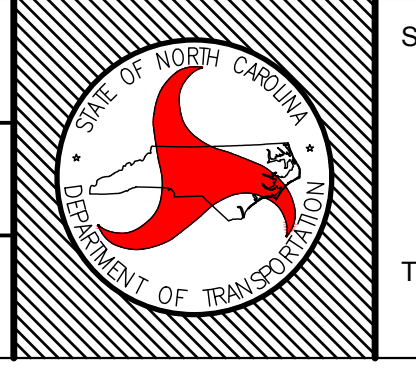
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**NCDOT Roadway Enhancement  
at Macy Grove Road  
and US 421 Interchange**

**SEAL**  
C-69  
NORTH CAROLINA  
LINDEY M. BAIRD  
1161  
9-15-15

**LANDSCAPE DEVELOPMENT**  
Landscape Planting

PRELIMINARY DESIGN DATE: APR. 31, 2015  
FINAL DESIGN DATE: SEPT. 10, 2015  
PROJECT: U-2800 - WBS #: 34858.1.1  
DIVISION AND COUNTY: Division 9 - Forsyth County

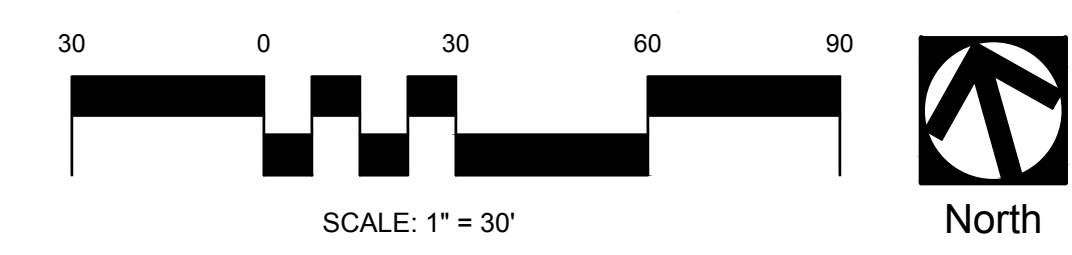
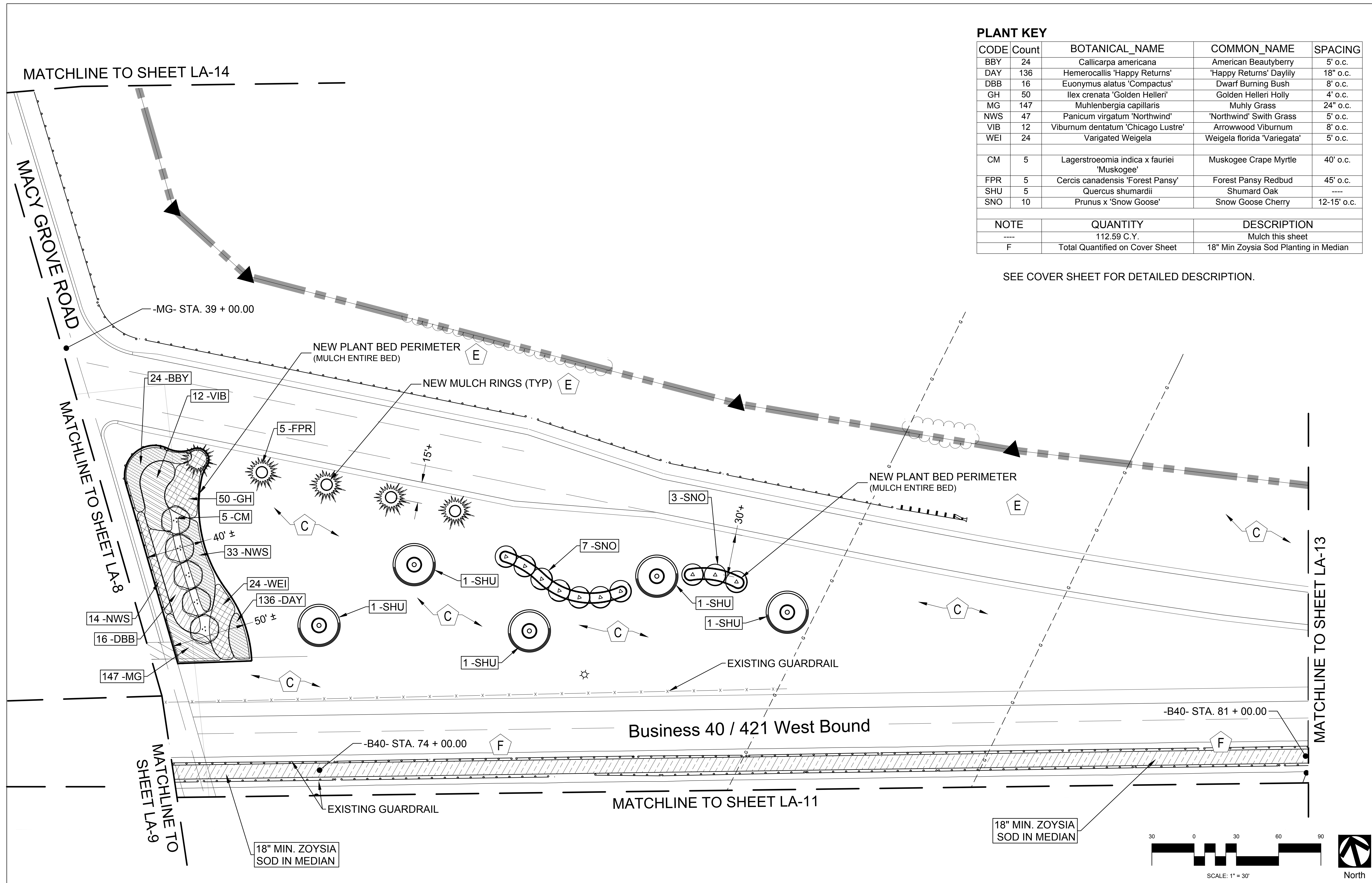


SHEET NO: **LA-9**  
TOTAL SHEET NO: 16

**PLANT KEY**

CODE	Count	BOTANICAL_NAME	COMMON_NAME	SPACING
BBY	24	Callicarpa americana	American Beautyberry	5' o.c.
DAY	136	Hemerocallis 'Happy Returns'	'Happy Returns' Daylily	18" o.c.
DBB	16	Euonymus alatus 'Compactus'	Dwarf Burning Bush	8' o.c.
GH	50	Ilex crenata 'Golden Helli'	Golden Helli Holly	4' o.c.
MG	147	Muhlenbergia capillaris	Muhly Grass	24" o.c.
NWS	47	Panicum virgatum 'Northwind'	'Northwind' Swith Grass	5' o.c.
VIB	12	Viburnum dentatum 'Chicago Lustre'	Arrowwood Viburnum	8' o.c.
WEI	24	Variegated Weigela	Weigela florida 'Variegata'	5' o.c.
CM	5	Lagerstroemia indica x fauriei 'Muskogee'	Muskogee Crape Myrtle	40' o.c.
FPR	5	Cercis canadensis 'Forest Pansy'	Forest Pansy Redbud	45' o.c.
SHU	5	Quercus shumardii	Shumard Oak	----
SNO	10	Prunus x 'Snow Goose'	Snow Goose Cherry	12-15' o.c.
NOTE	QUANTITY	DESCRIPTION		
----	112.59 C.Y.	Mulch this sheet		
F	Total Quantified on Cover Sheet	18" Min Zoysia Sod Planting in Median		

SEE COVER SHEET FOR DETAILED DESCRIPTION.



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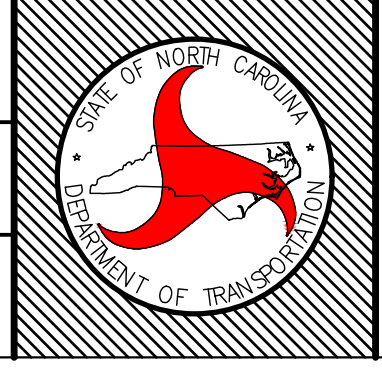
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NCDOT Roadway Enhancement  
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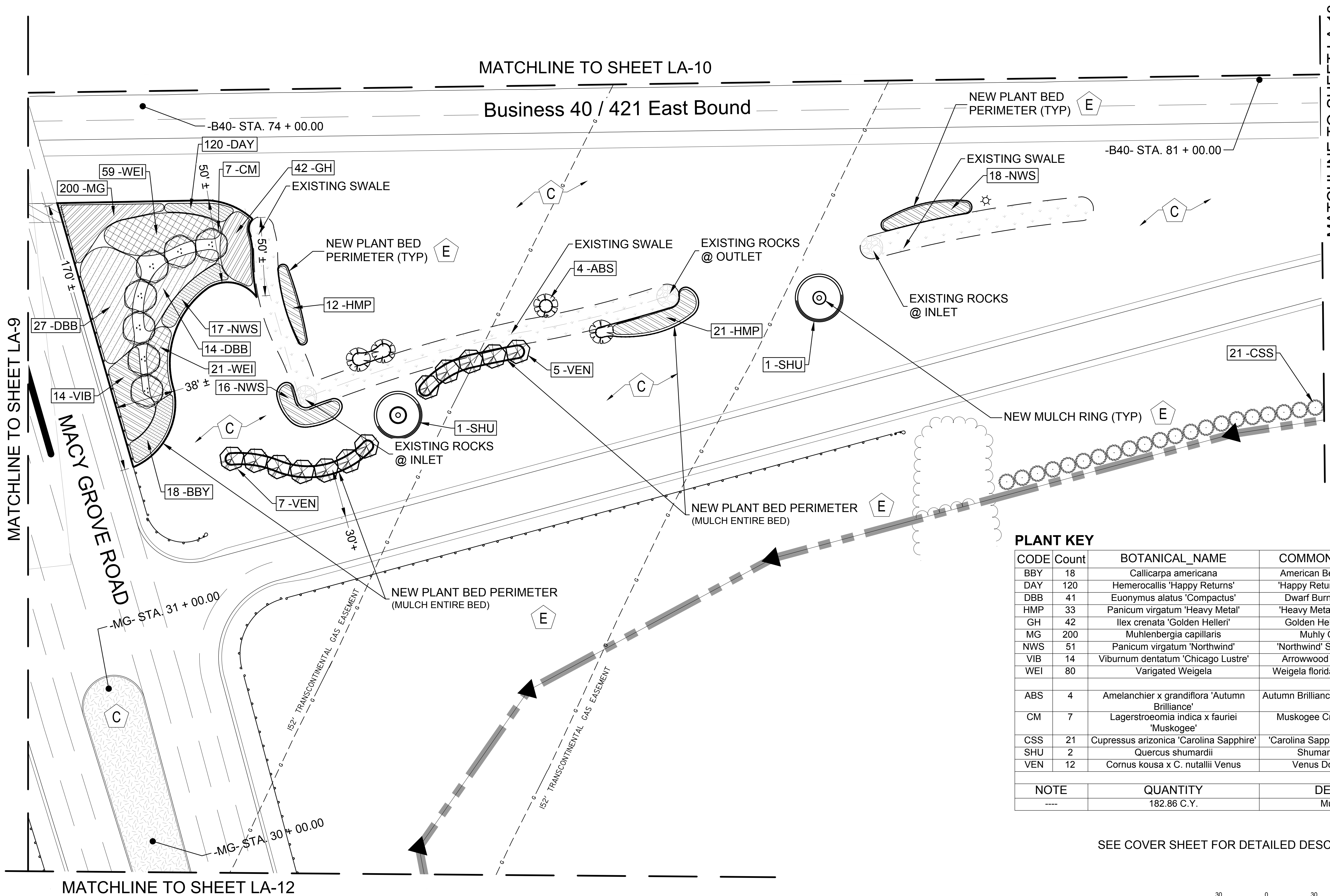
**LANDSCAPE DEVELOPMENT**  
Landscape Planting

PRELIMINARY DESIGN DATE: APR. 31, 2015  
FINAL DESIGN DATE: SEPT. 10, 2015

PROJECT: U-2800 - WBS #: 34858.1.1  
DIVISION AND COUNTY: Division 9 - Forsyth County



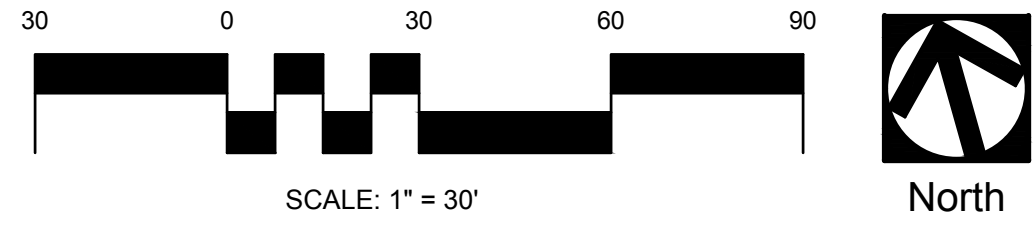
SHEET NO: **LA-10**  
TOTAL SHEET NO: 16



**PLANT KEY**

CODE	Count	BOTANICAL NAME	COMMON NAME	SPACING
BBY	18	<i>Callicarpa americana</i>	American Beautyberry	5' o.c.
DAY	120	<i>Hemerocallis 'Happy Returns'</i>	'Happy Returns' Daylily	18" o.c.
DBB	41	<i>Euonymus alatus 'Compactus'</i>	Dwarf Burning Bush	8' o.c.
HMP	33	<i>Panicum virgatum 'Heavy Metal'</i>	'Heavy Metal' Panicum	5' o.c.
GH	42	<i>Ilex crenata 'Golden Helleri'</i>	Golden Helleri Holly	4' o.c.
MG	200	<i>Muhlenbergia capillaris</i>	Muhly Grass	24" o.c.
NWS	51	<i>Panicum virgatum 'Northwind'</i>	'Northwind' Swith Grass	5' o.c.
VIB	14	<i>Viburnum dentatum 'Chicago Lustre'</i>	Arrowwood Viburnum	8' o.c.
WEI	80	<i>Variegated Weigela</i>	<i>Weigela florida 'Variegata'</i>	5' o.c.
ABS	4	<i>Amelanchier x grandiflora 'Autumn Brilliance'</i>	Autumn Brilliance Serviceberry	----
CM	7	<i>Lagerstroemia indica x fauriei 'Muskogee'</i>	Muskogee Crape Myrtle	20' o.c.
CSS	21	<i>Cupressus arizonica 'Carolina Sapphire'</i>	'Carolina Sapphire' Cypress	10' o.c.
SHU	2	<i>Quercus shumardii</i>	Shumard Oak	----
VEN	12	<i>Cornus kousa x C. nutallii Venus</i>	Venus Dogwood	15' o.c.
NOTE	QUANTITY	DESCRIPTION		
----	182.86 C.Y.	Mulch this sheet		

SEE COVER SHEET FOR DETAILED DESCRIPTION.

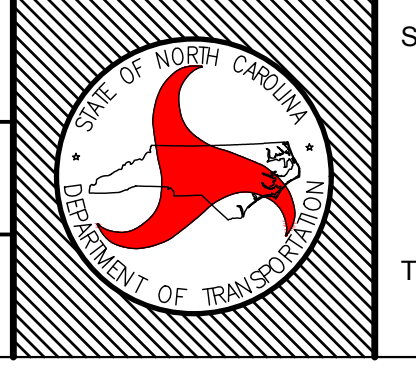


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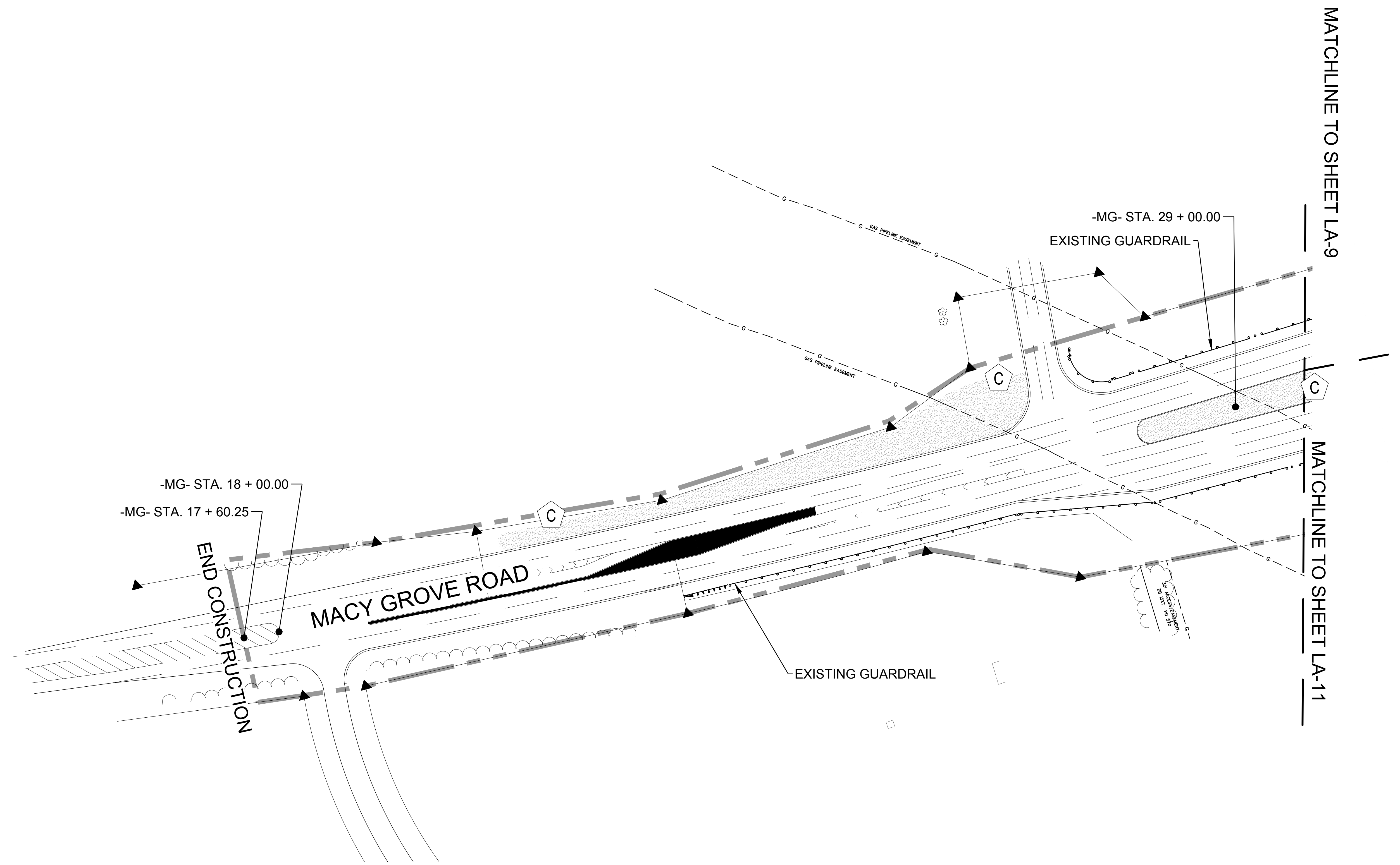
**NCDOT Roadway Enhancement  
 at Macy Grove Road  
 and US 421 Interchange**

**LANDSCAPE DEVELOPMENT**  
 Landscape Planting

PRELIMINARY DESIGN DATE: APR. 31, 2015  
 FINAL DESIGN DATE: SEPT. 10, 2015  
 PROJECT: U-2800 - WBS #: 34858.1.1  
 DIVISION AND COUNTY: Division 9 - Forsyth County



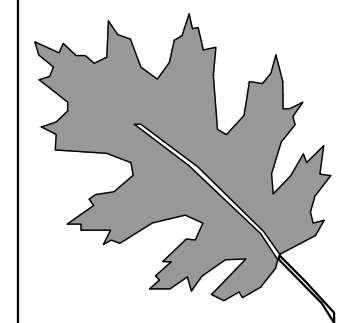
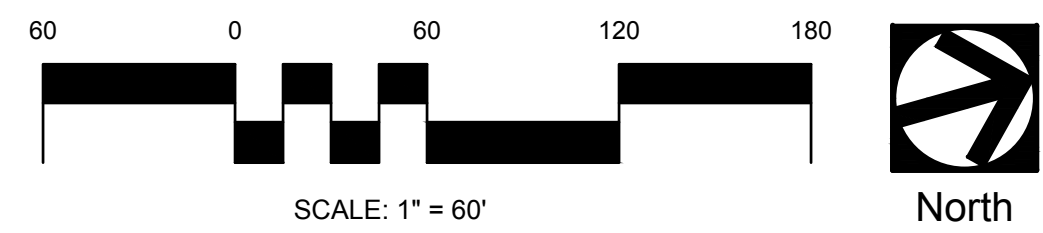
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**LA-11**  
 TOTAL SHEET NO: 16



**PLANT KEY**

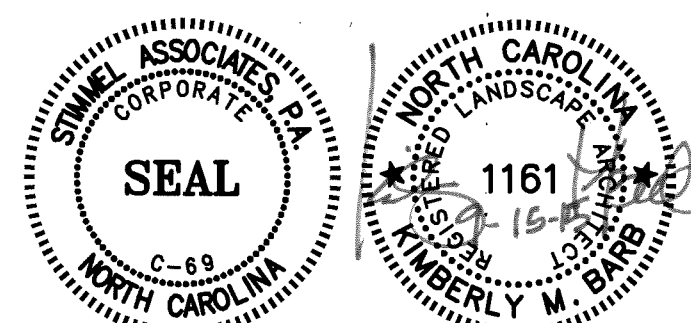
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NO NEW PLANTINGS THIS SHEET				
NOTE	QUANTITY	DESCRIPTION		
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SEE COVER SHEET FOR DETAILED DESCRIPTION.



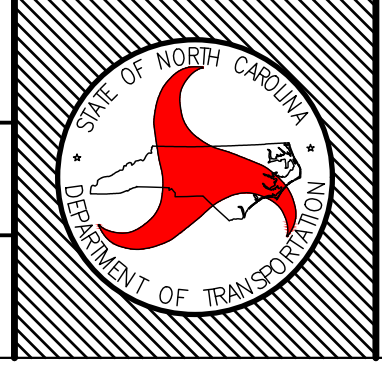
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NCDOT Roadway Enhancement  
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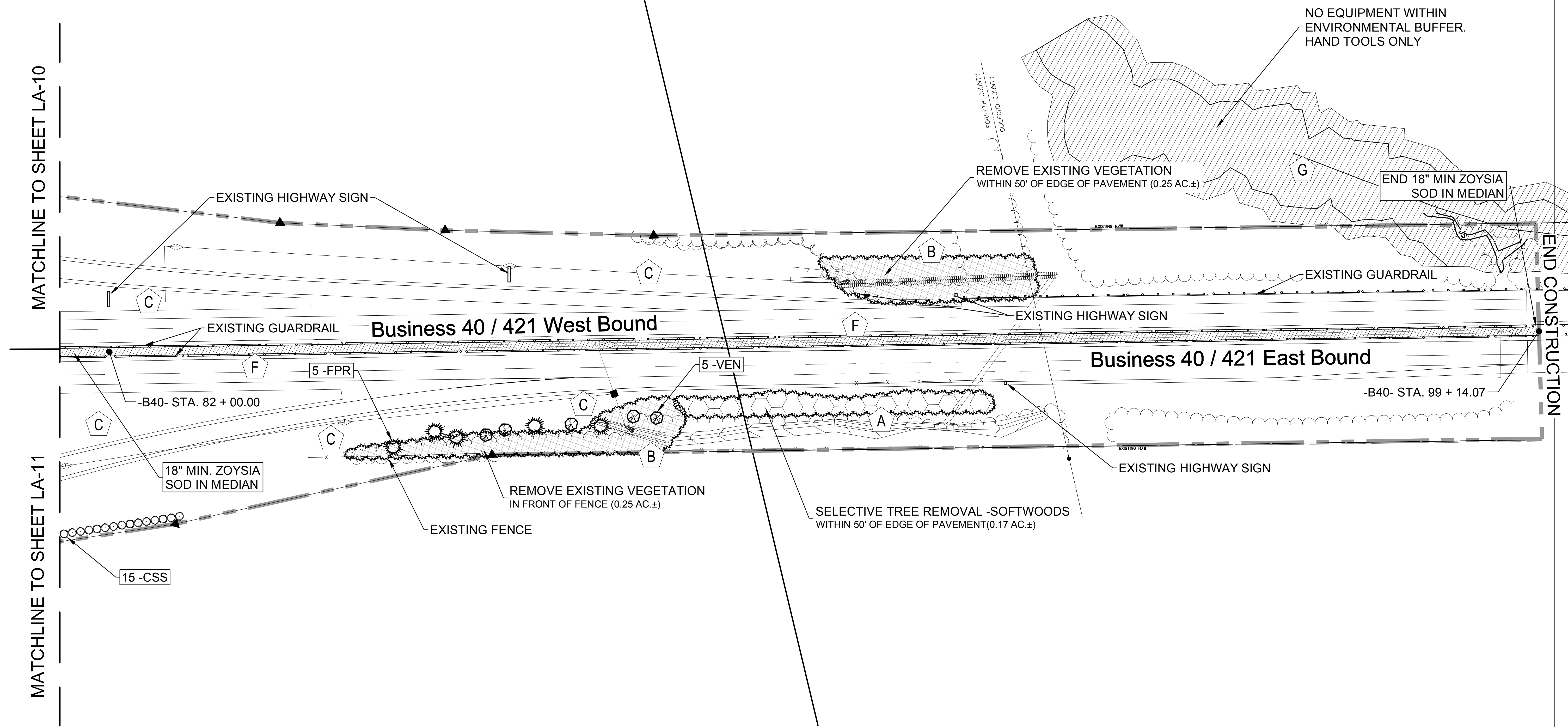


SHEET DESCRIPTION:  
**LANDSCAPE DEVELOPMENT**  
 Landscape Planting

PRELIMINARY DESIGN DATE: APR. 31, 2015  
 FINAL DESIGN DATE: SEPT. 10, 2015  
 PROJECT: U-2800 - WBS #: 34858.1.1  
 DIVISION AND COUNTY: Division 9 - Forsyth County



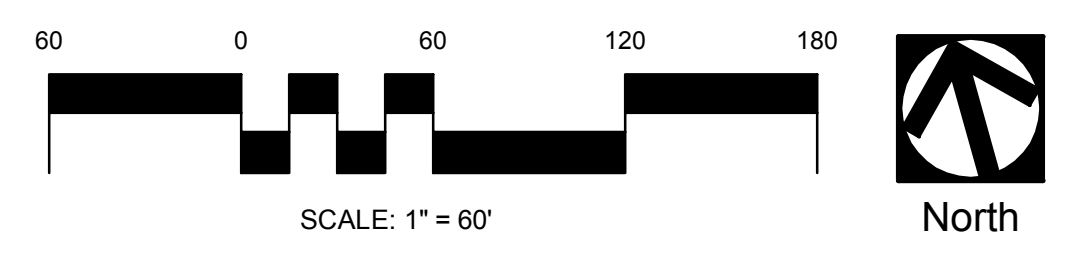
SHEET NO: **LA-12**  
 TOTAL SHEET NO: 16



**PLANT KEY**

CODE	Count	BOTANICAL_NAME	COMMON_NAME	SPACING
CSS	15	Cupressus arizonica 'Carolina Sapphire'	'Carolina Sapphire' Cypress	10' o.c.
FPR	5	Cercis canadensis 'Forest Pansy'	Forest Pansy Redbud	----
VEN	5	Cornus kousa x C. nutallii Venus	Venus Dogwood	----
NOTE	QUANTITY	DESCRIPTION		
----	6.11 C.Y.	Mulch this sheet		
A	0.17 AC.±	Special Vegetation Removal & Pruning		
B	0.50 AC.±	Removal of Existing Plantings		
F	Total Quantified on Cover Sheet		18" Min Zoysia Sod Planting in Median	

SEE COVER SHEET FOR DETAILED DESCRIPTION.



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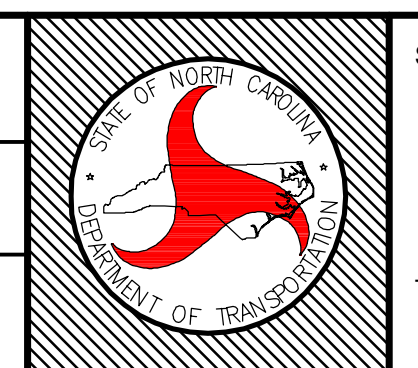
SEAL  
1161  
KIMBERLY M. PLUM

LANDSCAPE DEVELOPMENT  
Landscape Planting

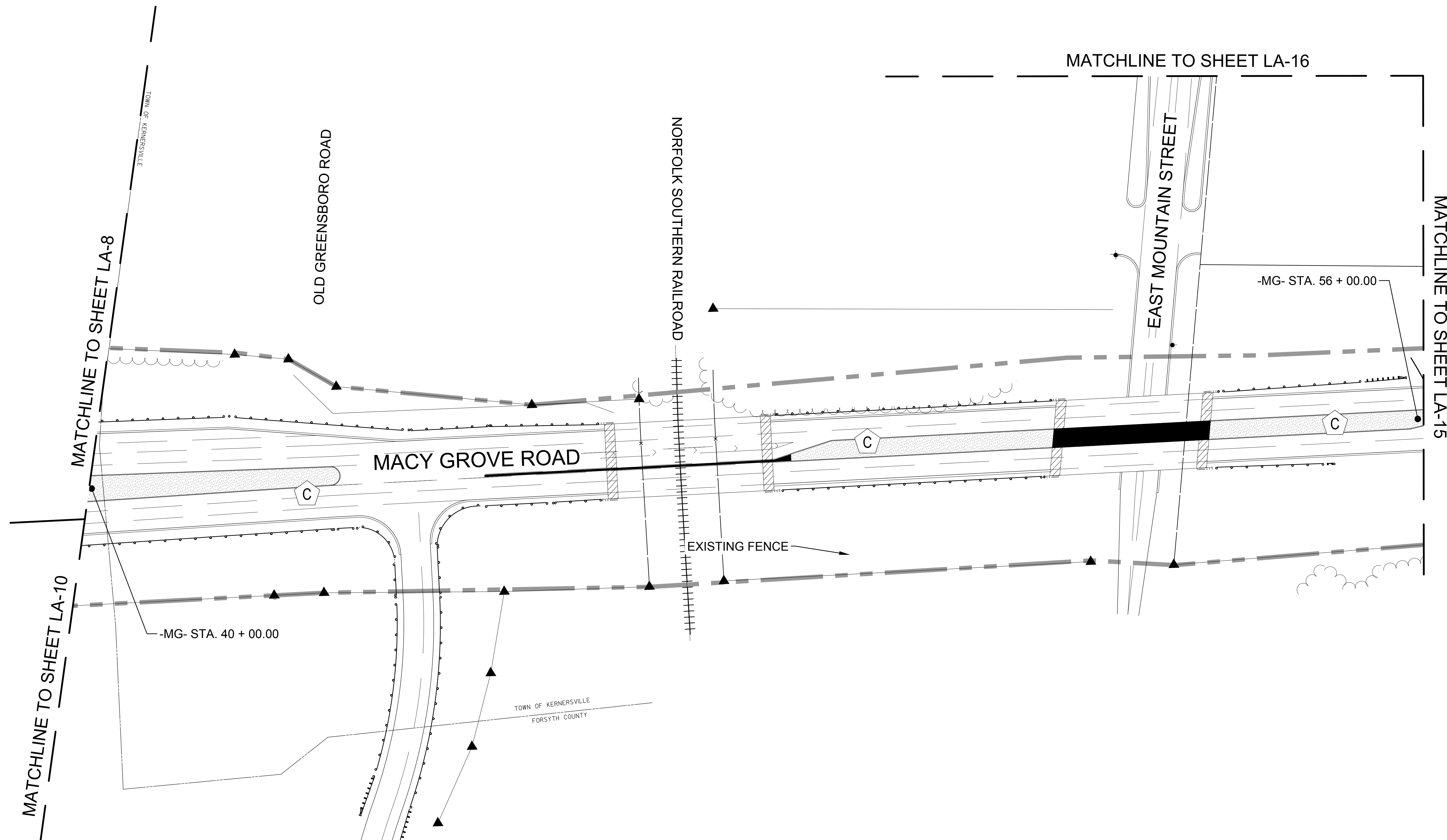
PRELIMINARY DESIGN DATE: APR. 31, 2015  
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PROJECT:  
U-2800 - WBS #: 34858.1.1

DIVISION AND COUNTY:  
Division 9 - Forsyth County



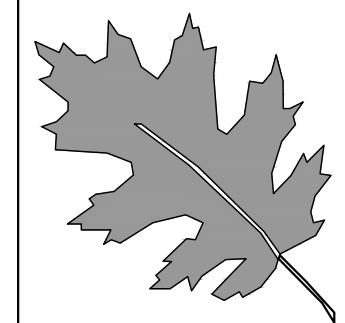
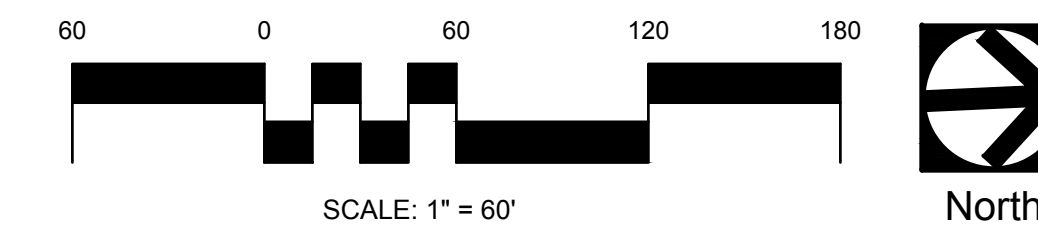
SHEET NO:  
**LA-13**  
TOTAL SHEET NO: 16



**PLANT KEY**

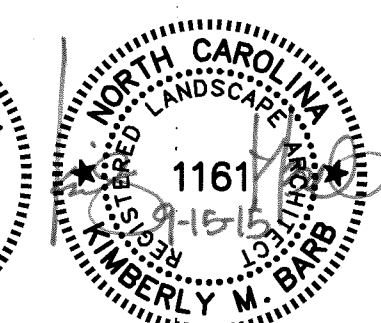
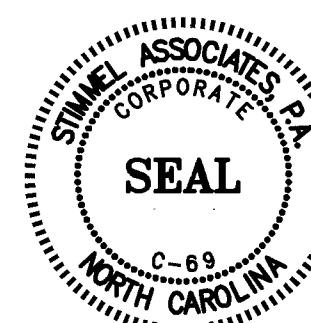
CODE	Count	BOTANICAL_NAME	COMMON_NAME	SPACING
NO NEW PLANTINGS THIS SHEET				
NOTE	QUANTITY	DESCRIPTION		
----	0 C.Y.	Mulch this sheet		

SEE COVER SHEET FOR DETAILED DESCRIPTION.



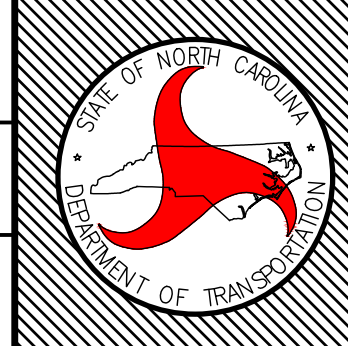
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**NCDOT Roadway Enhancement  
 at Macy Grove Road  
 and US 421 Interchange**



SHEET DESCRIPTION:  
**LANDSCAPE DEVELOPMENT**  
 Landscape Planting

PRELIMINARY DESIGN DATE: APR. 31, 2015  
 FINAL DESIGN DATE: SEPT. 10, 2015  
 PROJECT: U-2800 - WBS #: 34858.1.1  
 DIVISION AND COUNTY: Division 9 - Forsyth County

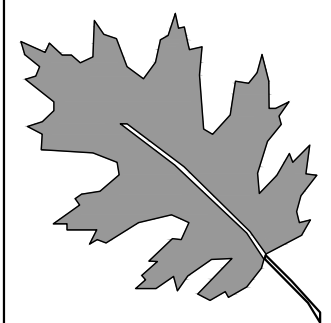
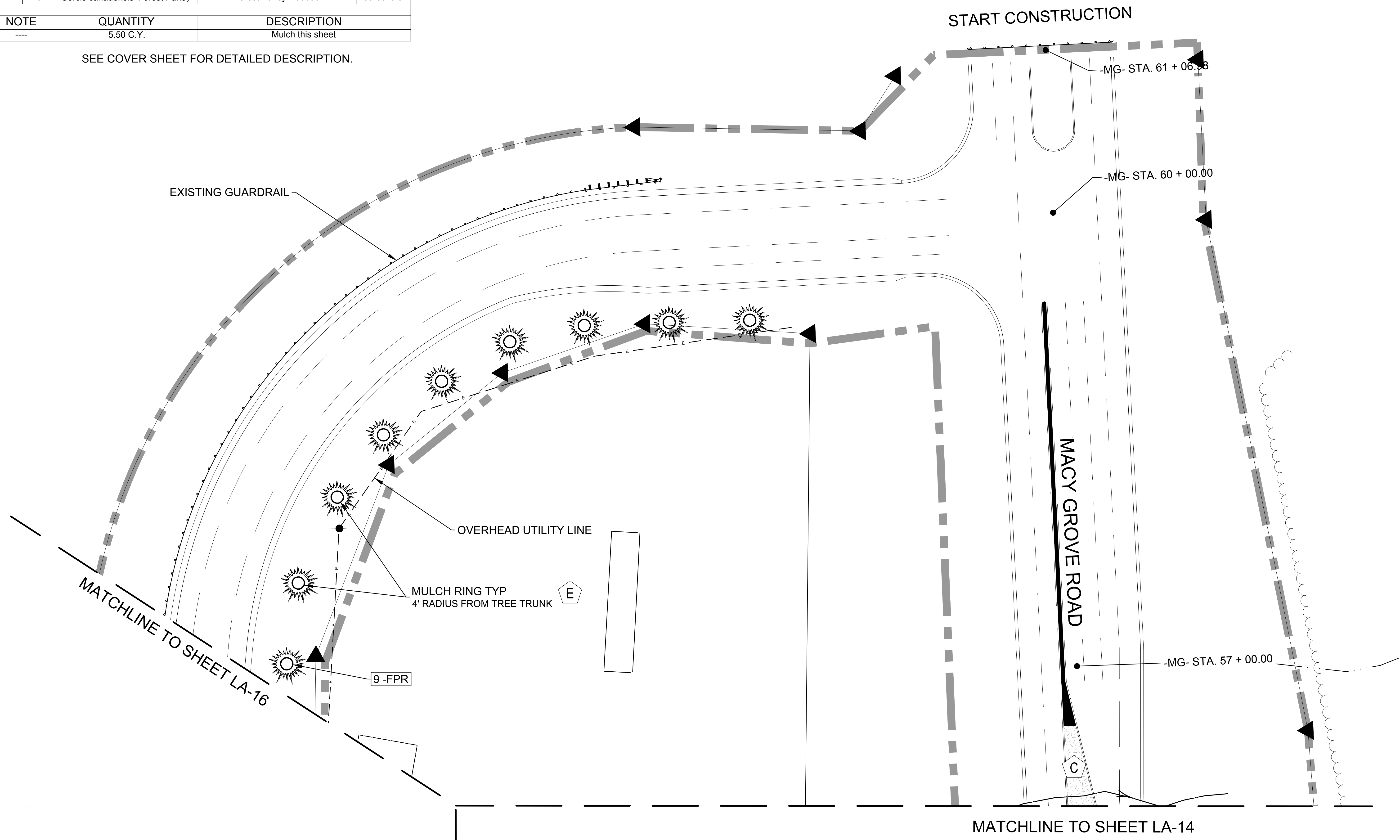


SHEET NO.: **LA-14**  
 TOTAL SHEET NO.: 16

**PLANT KEY**

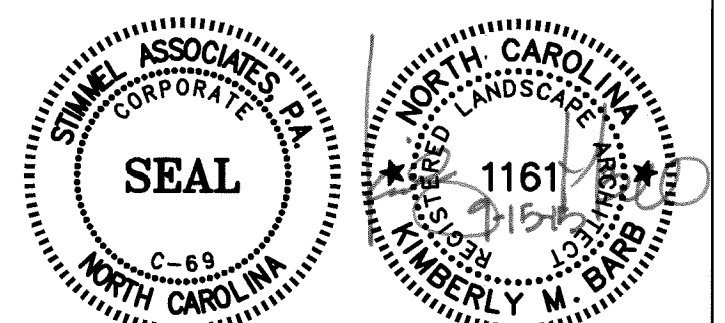
CODE	Count	BOTANICAL_NAME	COMMON_NAME	SPACING
FPR	9	Cercis canadensis 'Forest Pansy'	Forest Pansy Redbud	50-55' o.c.
NOTE	QUANTITY	DESCRIPTION		
----	5.50 C.Y.	Mulch this sheet		

SEE COVER SHEET FOR DETAILED DESCRIPTION.



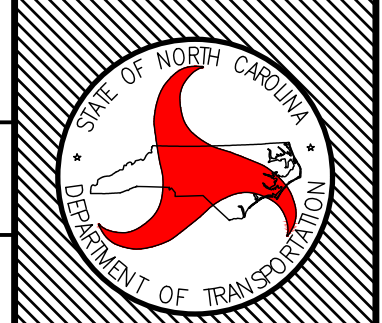
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**NCDOT Roadway Enhancement  
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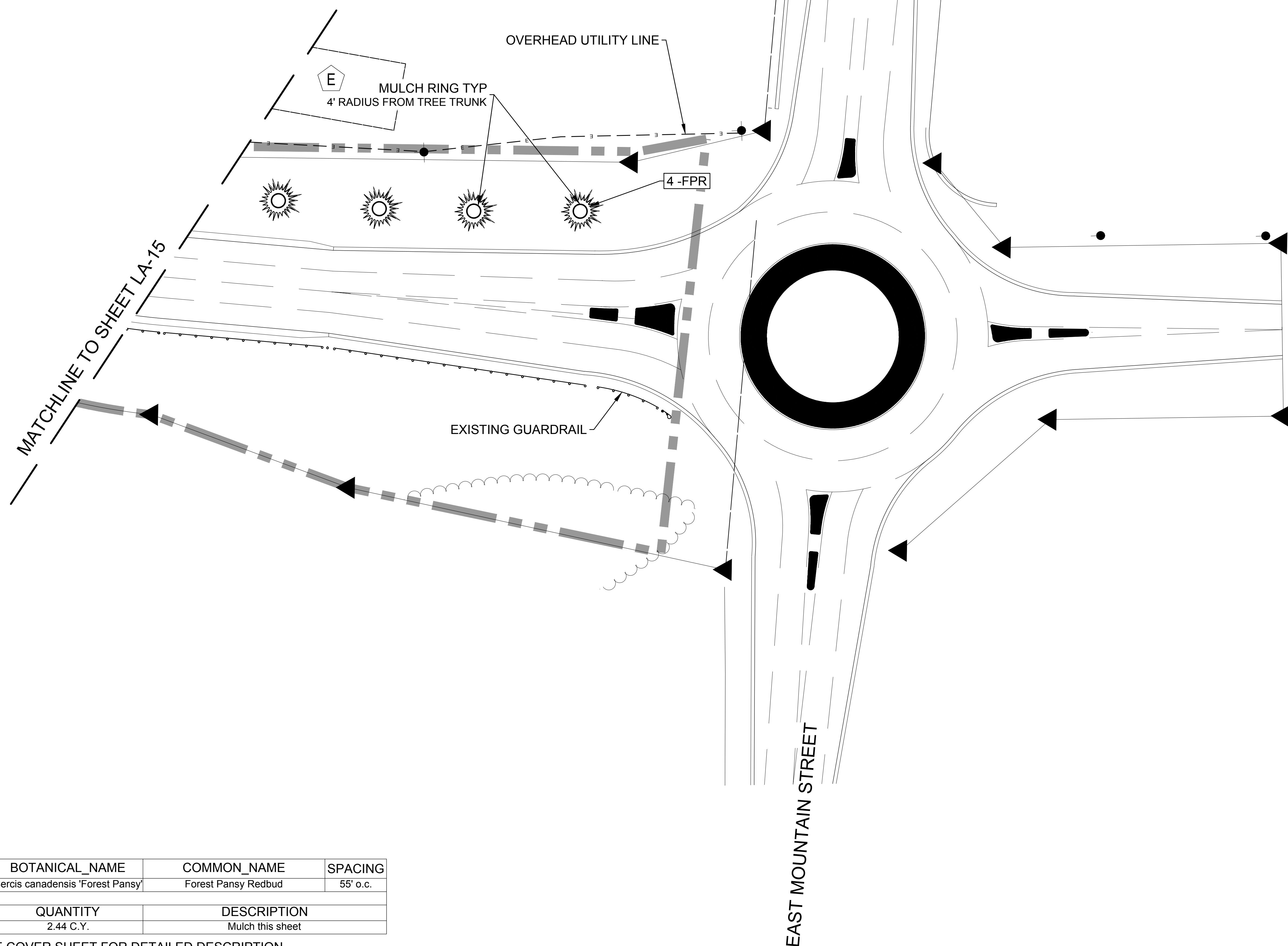
**LANDSCAPE DEVELOPMENT**  
 Landscape Planting

PRELIMINARY DESIGN DATE: APR. 31, 2015  
 FINAL DESIGN DATE: SEPT. 10, 2015  
 PROJECT: U-2800 - WBS #: 34858.1.1  
 DIVISION AND COUNTY: Division 9 - Forsyth County



SHEET NO: **LA-15**  
 TOTAL SHEET NO: 16

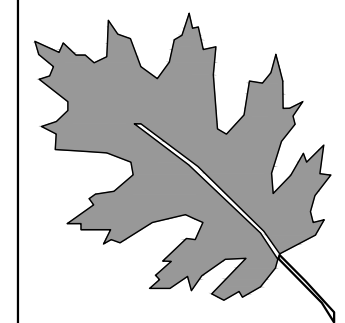
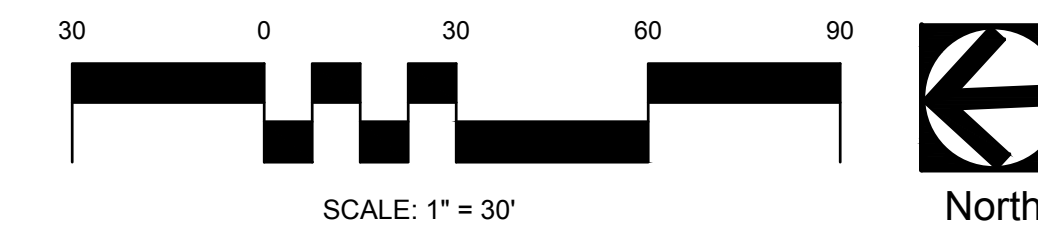
MATCHLINE TO SHEET LA-14



**PLANT KEY**

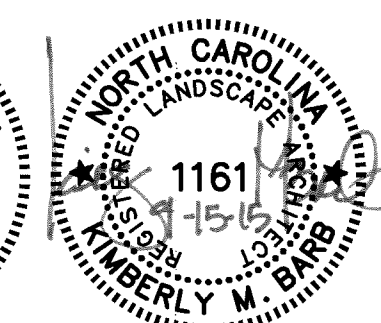
CODE	Count	BOTANICAL_NAME	COMMON_NAME	SPACING
FPR	4	Cercis canadensis 'Forest Pansy'	Forest Pansy Redbud	55' o.c.
NOTE	QUANTITY	DESCRIPTION		
---	2.44 C.Y.	Mulch this sheet		

SEE COVER SHEET FOR DETAILED DESCRIPTION.



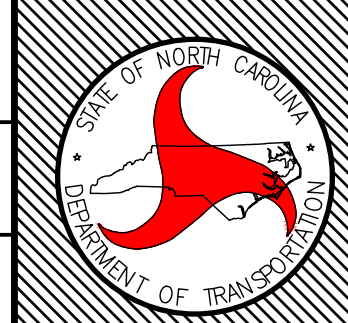
**stimmel**  
 LANDSCAPE ARCHITECTURE CIVIL ENGINEERING LAND PLANNING  
 601 N. TRADE STREET, SUITE 200  
 WINSTON-SALEM, NC 27101  
 www.stimmelpa.com 336.723.1067

NCDOT Roadway Enhancement  
 at Macy Grove Road  
 and US 421 Interchange



SHEET DESCRIPTION:  
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SHEET NO :  
**LA-16**  
 TOTAL SHEET NO :  
 16