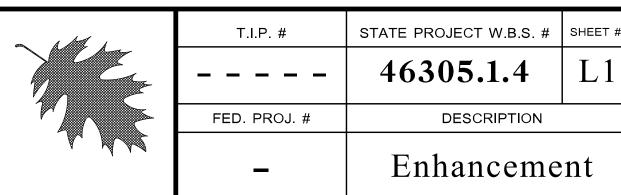
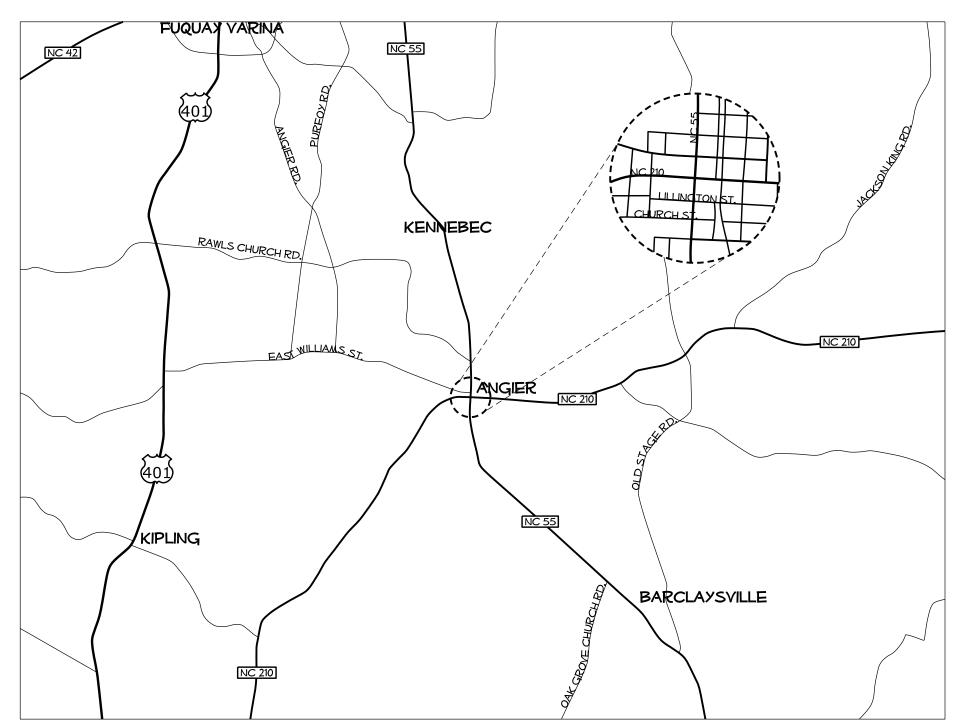
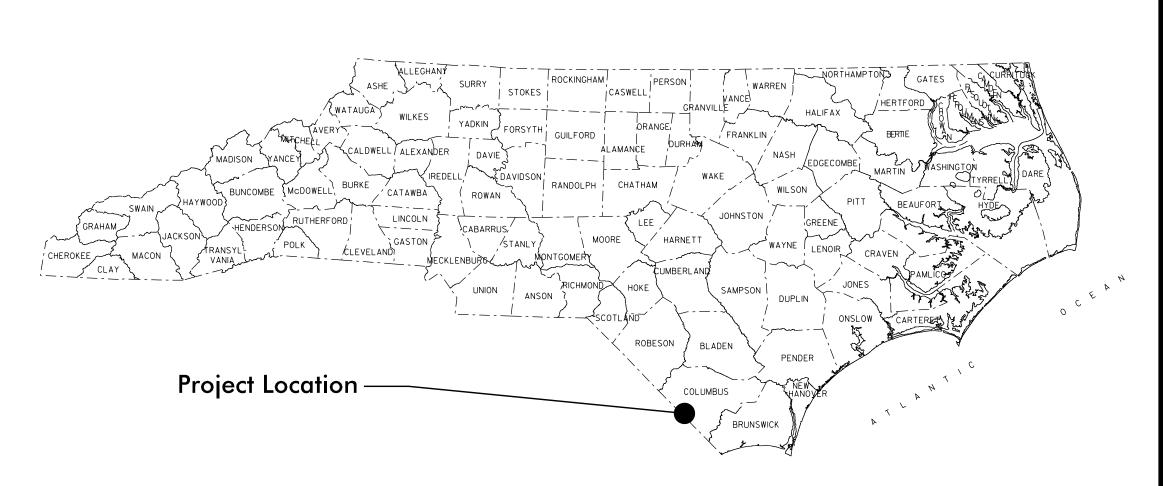
HIGHWAY LANDSCAPE DEVELOPMENT PROJECT







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. Easement Line. 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 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

CONVENTIONAL SYMBOLS

Summary of Quantities 1 year establishment

DES	SEC	QTY	UNIT	KEY	BOTANICAL NAME	COMMON NAME	SIZE	CALIPER	FURNISH	A.S.N.S.	REMARKS
					Shrubs & Grasses						
L	1670	43	еа		Berberis thunbergii var. atropurpurea 'Crimson Pygmy'	Crimson Pygmy Dwarf Japanese Baeberry	12-18"		#3 Cont.	2.2.2	3' O.C.
L	1670	31	еа	CH	Chamaecyparis pisifera 'Golden Mop'	Gold Mop Threadleaf False Cypress	18-24"		#3 Cont.	3.2.3	4' O.C.
L	1670	66	еа	IS	Ilex crenata 'Soft Touch'	Soft Touch Holly	18-24"		#3 Cont.	4.2.2	3' O.C.
L	1670	70	еа	LP	Loropetalum chinense 'Purple Pixie'	Purple Pixie Chinese Fringe Flower	6-12"		#3 Cont.	4.2.3	4' O.C.
L	1670	101	еа	MC	Muhlenbergia capillaris	Pink Muhly Grass	18-24"		#3 Cont.	12.4	3' O.C.
L	1670	77	еа	SG	Spiraea japonica 'Goldmound'	Goldmound Spirea	18-24"		#3 Cont.	2.2.2	4' O.C.
L	1670	52	SY	EO	Eremochloa ophiuroides (+10%)	Centipede Grass	n/a		n/a		As Shown
					Annuals						
L	1670	177	еа	CC	Catharanthus roseus 'Cora ™ White'	Cora™ White Vinca			Flat of 18; (1801)		12" O.C.
L	1670	232	еа	CD	Celosia plumosa 'Fresh Look Gold'	Fresh Look Gold Cockscomb			Flat of 18; (1801)		10" O.C.
L	1670	31	еа	VP	Viola x wittrockiana 'Penny Orchid Frost'	Penny Orchid Frost Pansy			Flat of 18; (1801)		8" O.C.
L	1670	17	еа	VU	Viola x wittrockiana 'Ultima Radiance Pink'	Ultima Radiance Pink Pansy			Flat of 18; (1801)		8" O.C.
					Other						
L	1670	152	sqyd		Plant Bed Renovation						
L	1670	72	cuyd		Mulch	Triple Shredded Brown Dyed Hardwood Mulc	h				Depth of 4"
L	1670	12	m/g		Water for Planting						
L	1670	693	sqyd		Pre emergence Herbicidal Treatment						
L	1670	693	sqyd		Post emergence Herbicidal Treatment						
L	1670	130	LF		Stone Veneer Retaining Wall						
L	1670	56	LF		Stone Retaining Wall						
L	1670	1	LS		Irrigation						
L	1670	12.5	cuyd		Top Soil						

L 1.0 - Title Sheet

L 2.0 - Planting Details

L 3.0 - Demolition Plan

L 4.0 - Planting Plan Quad 1 L 5.0 - Planting Plan Quad 2

L 6.0 - Planting Plan Quad 3

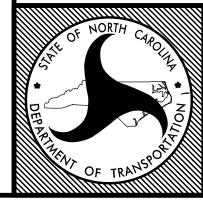
L 7.0 - Planting Plan Quad 4

L 8.0 - Irrigation Plan

PREPARED BY: KC DATE: 03/2016

REVISIONS

DATE	DESCRIPTION



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION LOCATION: Angier NC 210 & NC 55

TYPE of WORK: Enhancement

COUNTY: Harnett County

2014 American Standard for Nursery Stock
2012 NCDOT STANDARD SPECIFICATIONS

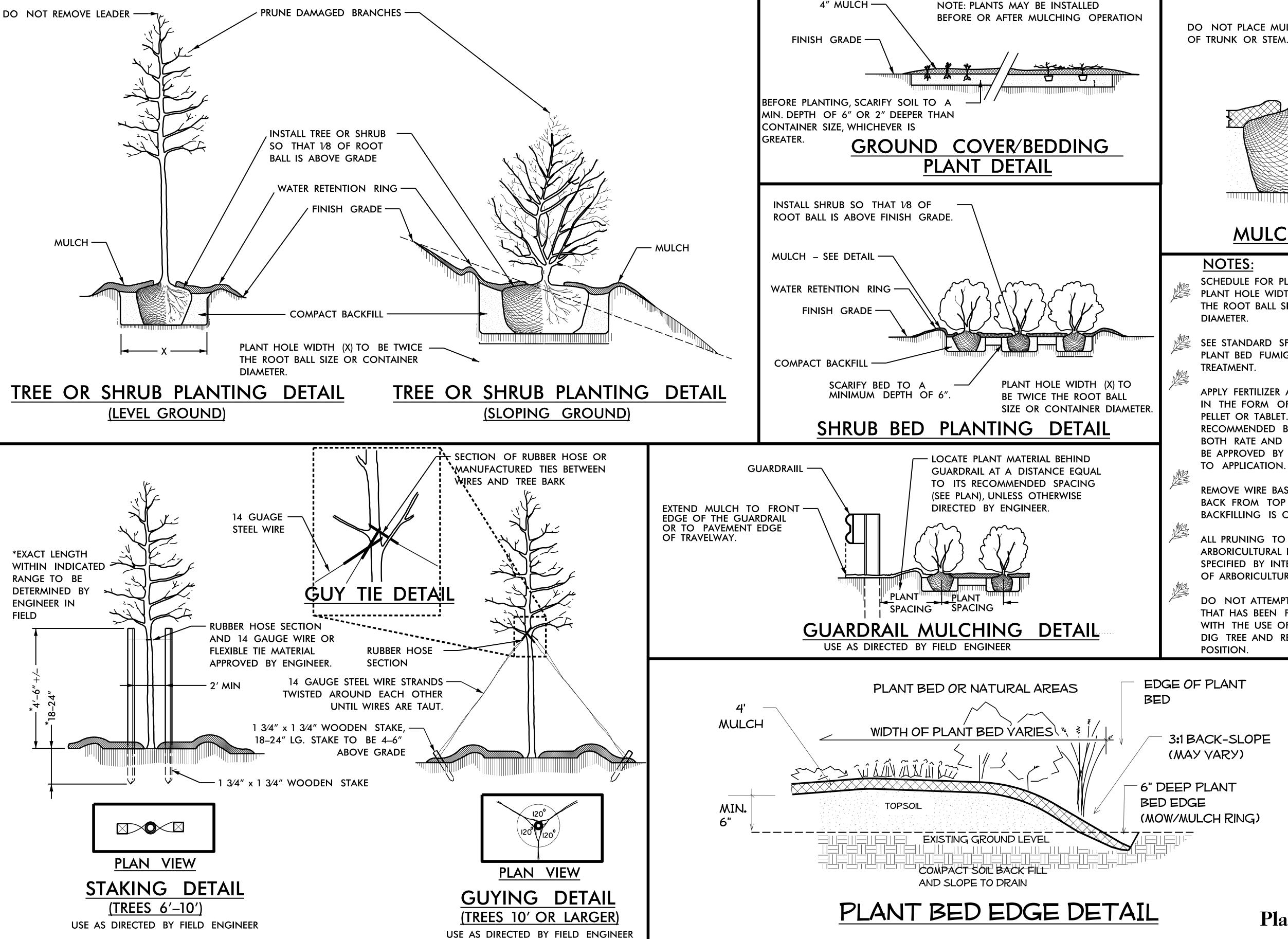
PREPARED IN THE OFFICE OF:
NCDOT- ROADSIDE ENVIRONMENTAL UNIT
LANDSCAPE DESIGN & DEVELOPMENT SECTION
1557 MAIL SERVICE CENTER
RALEIGH NC 27699 919-707-2920

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Angi



DO NOT PLACE MULCH WITHIN 2"

OF TRUNK OR STEM.

Transportation

of

Roadside

MULCH DETAIL

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.

Planting Details

ier NC 210 & N Harnett County

Plans Drawn By: **Kyle Cooper**Scale

AS NOTED

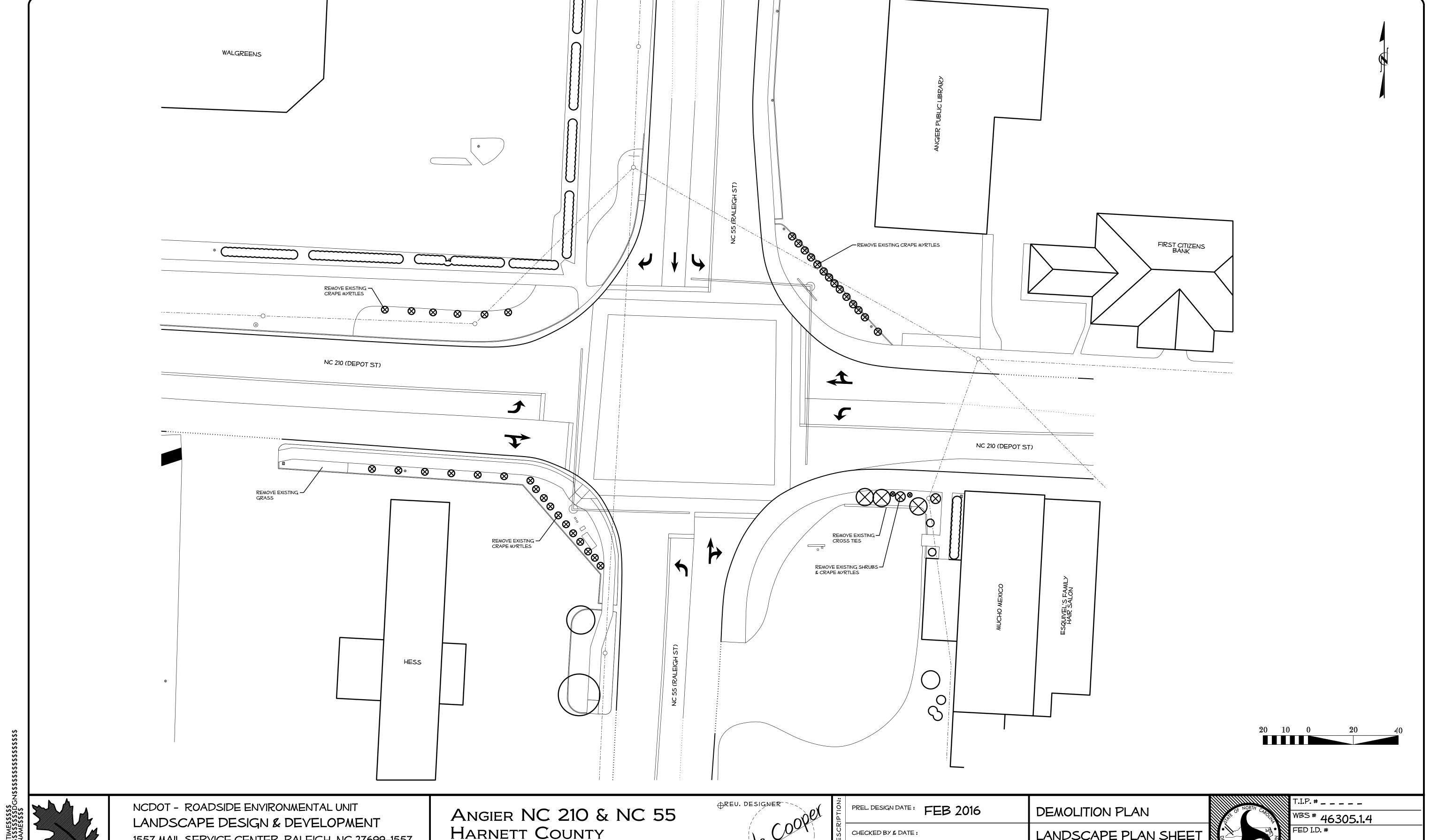
Date

03 / 18 / 16

03 / 18 / 16
Sheet Description

WBS # **46305.1.4**

Sheet #



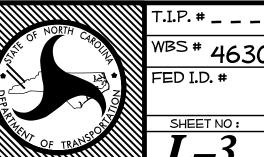
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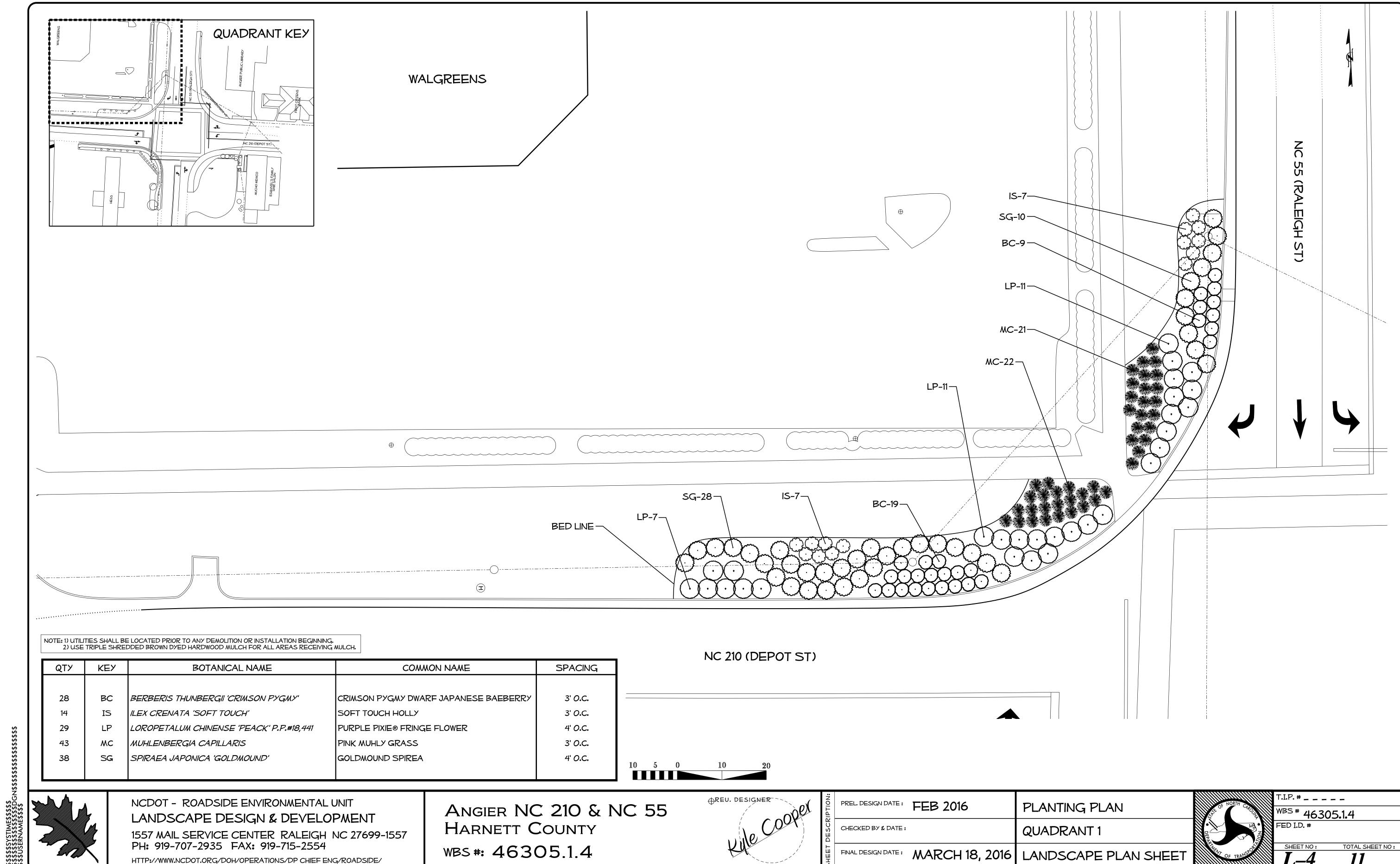
HARNETT COUNTY WBS #: 46305.1.4



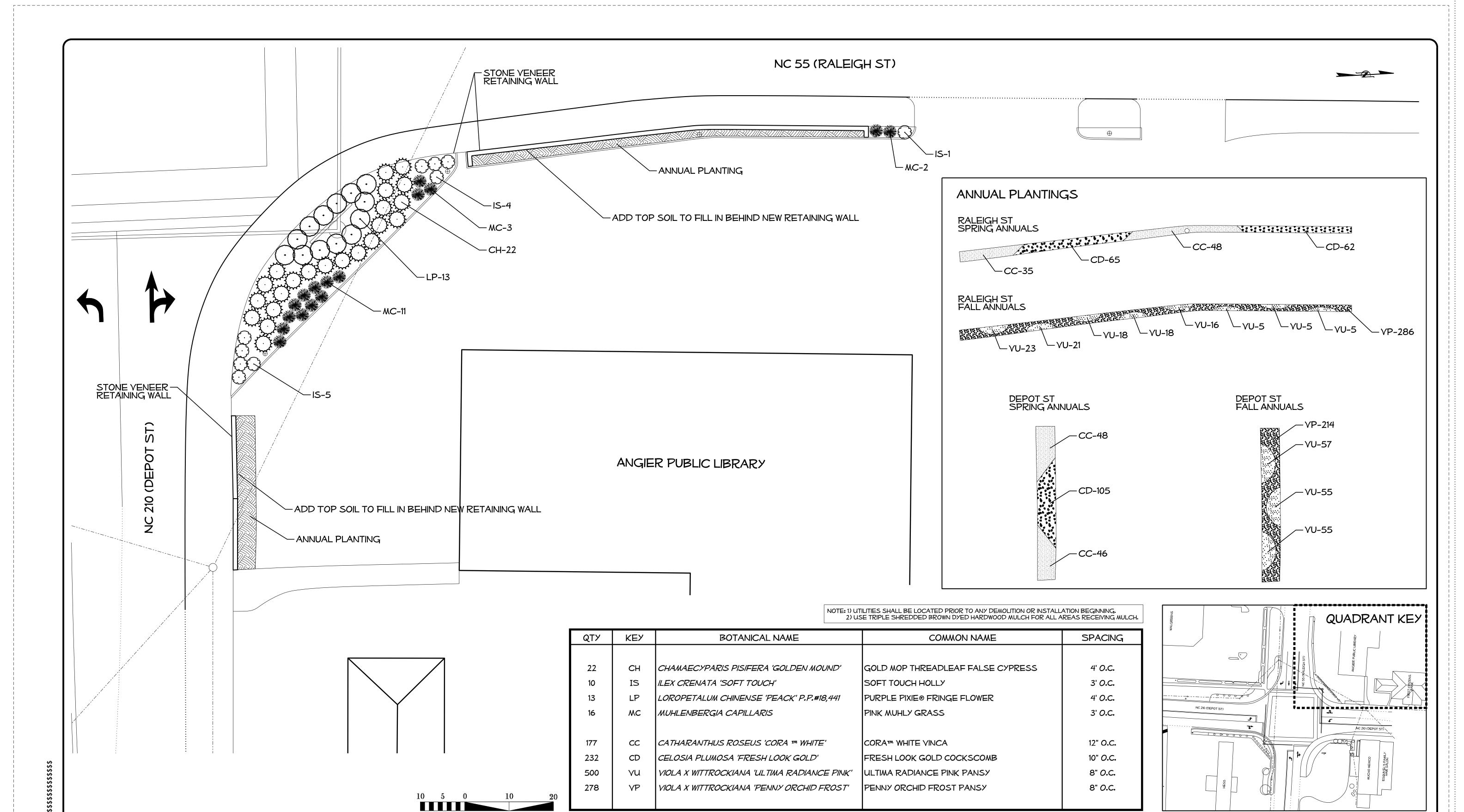
REL DESIGN DATE: FEB 2016	DEMOLITION PLAN
HECKED BY & DATE:	LANDSCAPE PLAN SHEET
INAL DESIGN DATE: MARCH 18, 2016	



TOTAL SHEET NO:



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NCDOT - ROADSIDE ENVIRONMENTAL UNIT LANDSCAPE DESIGN & DEVELOPMENT

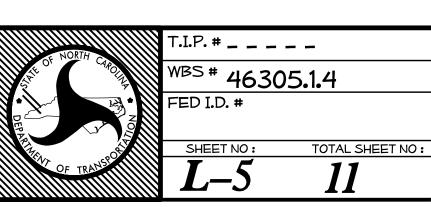
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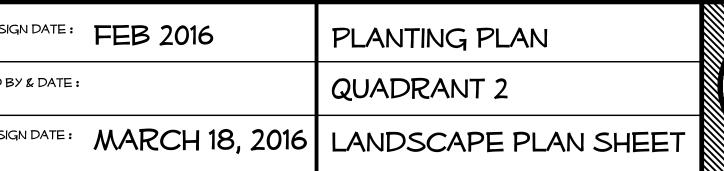
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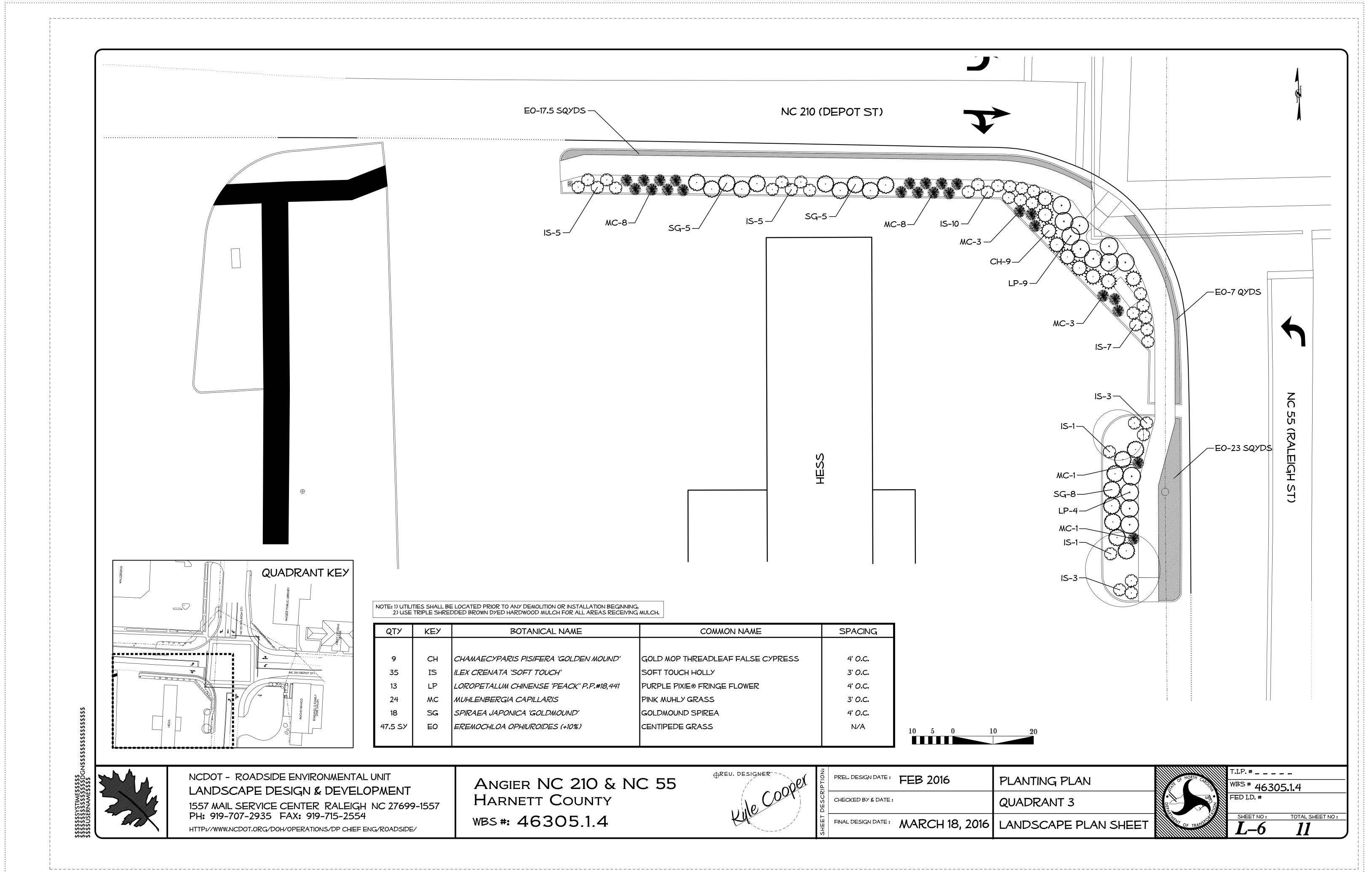
ANGIER NC 210 & NC 55 HARNETT COUNTY WBS #: 46305.1.4

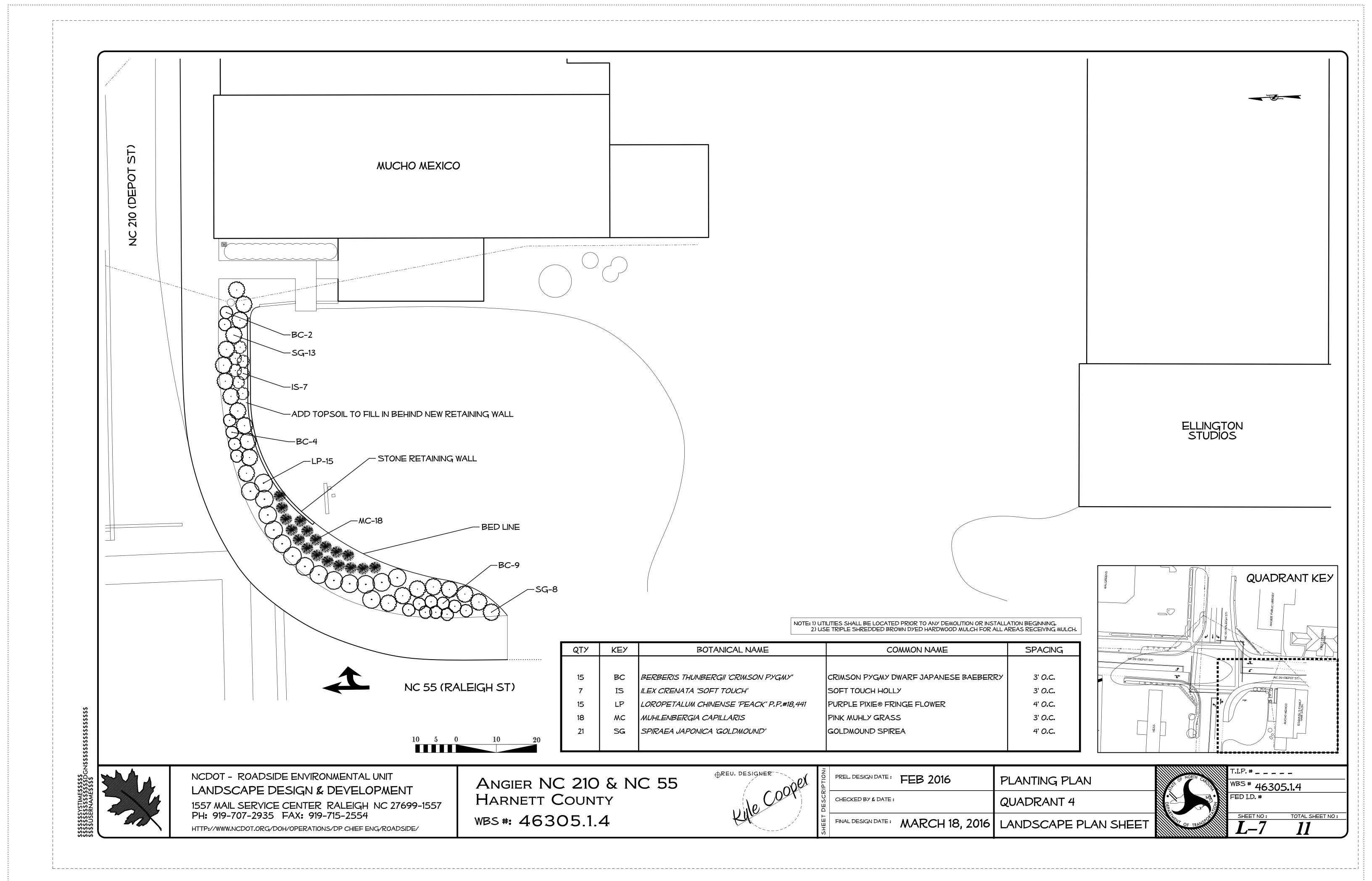


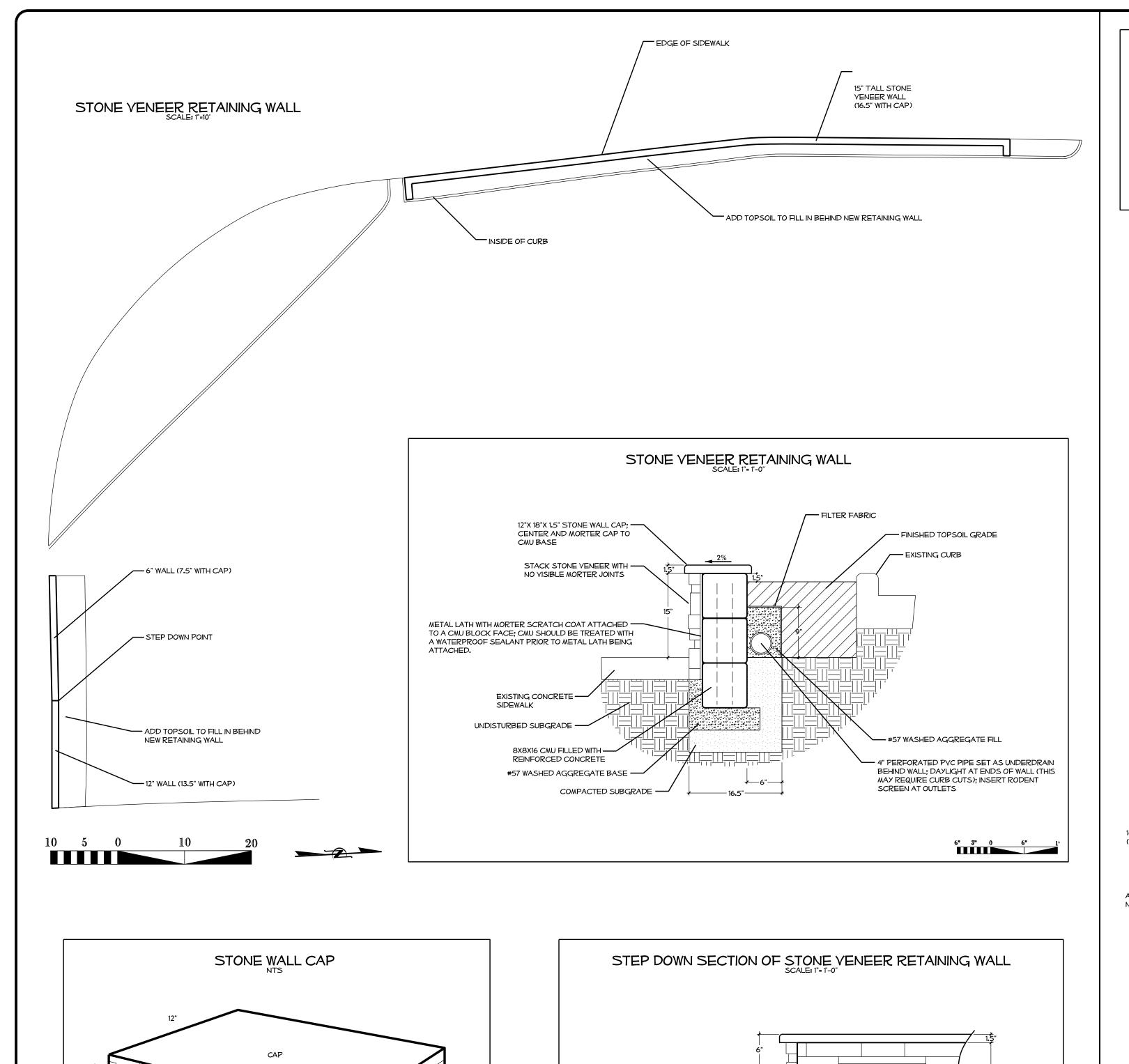
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CHECKED BY & DATE:	QUADRANT 2
FINAL DESIGN DATE: MARCH 18, 2016	LANDSCAPE PLAN SHEET

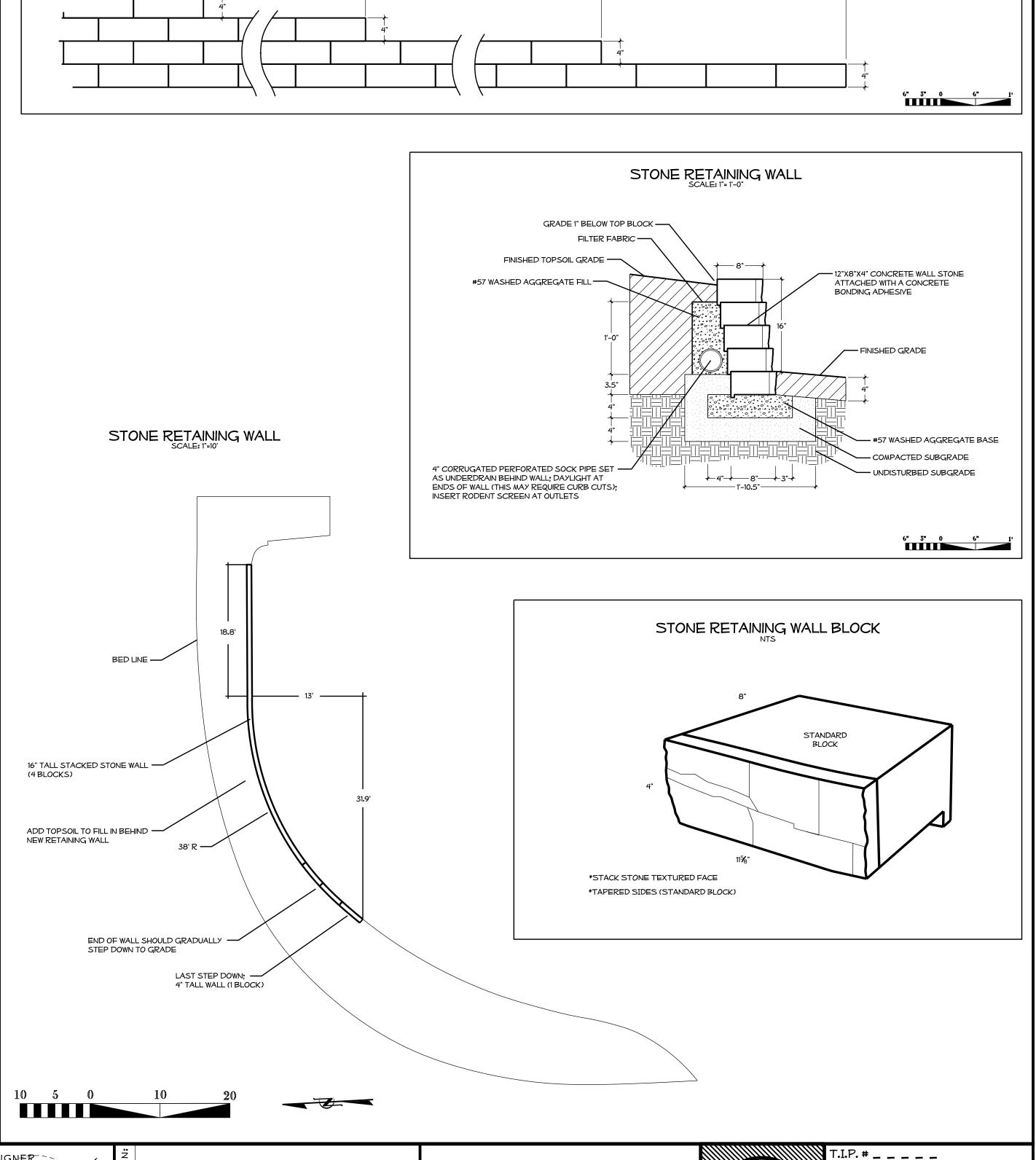


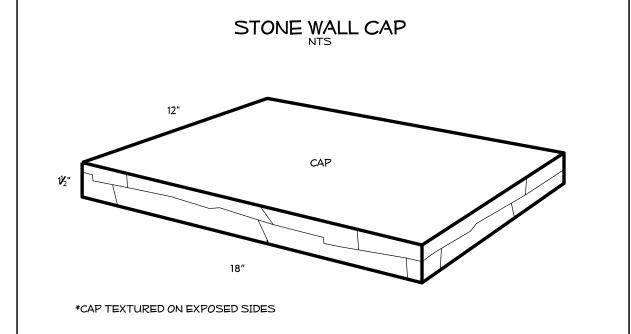


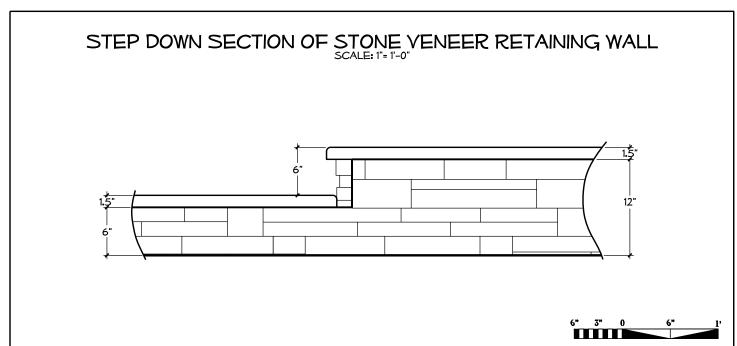














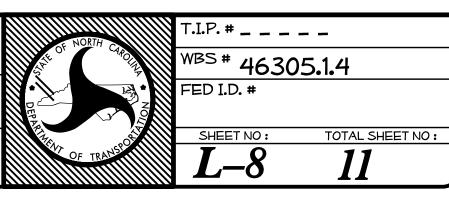
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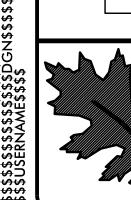
ANGIER NC 210 & NC 55 HARNETT COUNTY WBS #: 46305.1.4

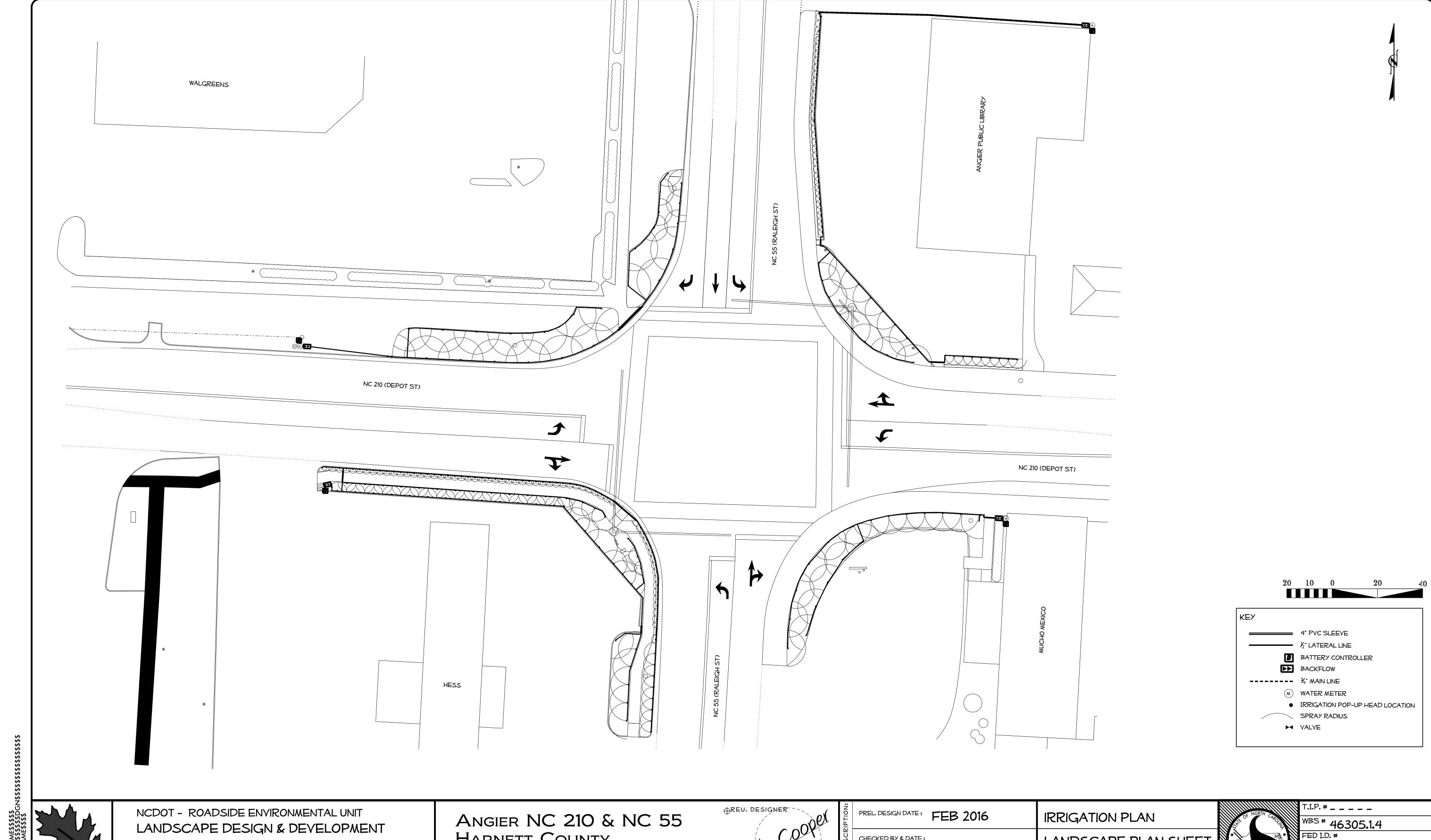


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PREL. DESIGN DATE: FEB 2016	STONE WALLS' DETAILS
CHECKED BY & DATE:	QUADRANT 4
FINAL DESIGN DATE: MARCH 18, 2016	LANDSCAPE PLAN SHEET







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PREL. DESIGN DATE: FEB 2016	IRRIGATION PLAN
CHECKED BY & DATE :	LANDSCAPE PLAN SHEET
FINAL DESIGN DATE: MARCH 18, 2	016



	T.I.P. #
W. T.	WBS # 46305.1.4
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*IRRIGATION CONTRACTOR MUST BE LICENSED BY THE BOARD UNDER CHAPTER (2008-177, S.1; 2013-383, S.3)

*ALL MATERIALS MAY BE OF COMPARABLE MANUFACTURE AND PERFORMANCE TO BRAND NAMED

MINIMUM DEPTH OF COVER OVER LATERAL PIPING TO BE 12" LATERAL PIPING SIZING SCHEDULE SUMMATION OF GALLONAGE DEMAND ON THE PARTICULAR BRANCHES OF PIPE WITHIN A CONTROL SECTION SHALL BE DETERMINED BY USING THE GPM FOR A NOZZLE BASED ON A 50 PSI BASE OF HEAD PRESSURE AND FULL RADIUS AT THAT PRESSURE AS REPORTED IN THE TORO 2010 IRRIGATION PRODUCTS CATALOG. PIPE SIZES FOR THE LATERALS SHALL BE AS FOLLOWS: - ZERO TO FIFTEEN GPM ACCUMULATED FLOW USE 3/4" PR 200 PVC PIPE - GREATER THAN FIFTEEN UP TO THIRTY-FIVE GPM USE 3/4" PVC PIPE -FRICTION LOSS ALLOWANCES FOR THIS

PROJECT HAVE BEEN DETERMINED USING THE

- PR 200 MAIN LINE PIPING. - SIZE OF PIPE TO BE 1-1/2" IN MINIMUM - DEPTH OF COVER MAINLINE PIPING TO BE

ABOVE FLOW RANGES AND DEMANDS.

- PIPING SHALL BE PR 200 SOLVENT WELD PVC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTING UNLESS OTHERWISE NOTED. - ALL PIPING RUNS SHALL BE "SNAKED" IN THE TRENCH DURING INSTALLATION TO PREVENT EXCESSIVE STRAIN DUE TO THERMAL EXPANSION OR CONTRACTION. - THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGING PLANTINGS (INCLUDING ROOTS) DURING INSTALLATION OF THE IRRIGATION SYSTEM AND SHALL COORDINATE HIS EFFORTS WITH THE LANDSCAPE CONTRACTOR SO AS TO OPTIMIZE THE EFFICIENCY AND THE AESTHETIC QUALITY OF THE INSTALLATION.

DRIP IRRIGATION

EMITTERS PER TREE.



- DRIP IRRIGATION IS TO BE TORO NETAFIM TECHLINE "P.E. TUBING (OR COMPARABLE MANUFACTURE AND PERFORMANCE), 18" EMITTER SPACING INTERVALS AT 1 GPM EMITTERS INLINE. APPROVED INLINE EMITTER DRIPLINE /TECHLINE TO BE INSTALLED UNDER MULCH IN LANDSCAPE AREAS AS SHOWN ON THE IRRIGATION PLAN. - LOCATION OF DRIP VALVE ASSEMBLY WHICH INCLUDES 250 SERIES REMOTE CONTROL VALVE WITH FLOW CONTROL FEATURE, INLINE EMITTER DRIPLINE /TECHLINE 200 MESH FILTER #DF150-140, AND INLINE EMITTER DRIPLINE /TECHLINE PRESSURE REGULATOR #PYR15045. FLOW CONTROLVALVES SHALL BE AS NOTED ON BOXES WITH LIDS MOUNTED AT GRADE LEVEL. - MIN. 2 EMITTERS PER SHRUB AND 3

YALYES:

- MAY BE OF COMPARABLE MANUFACTURE AND PERFORMANCE TO BRAND NAMED

LOCATION OF ELECTRIC 24 V.A.C. REMOTE CONTROL VALVE WITH FLOW CONTROL FEATURE (MODEL #TPYF100DC SOLENOIDS.). - ALL IN-LINE REMOTE CONTOL VALVES SHALL BE INSTALLED IN CARSON YALVE BOXES WITH LIDS MOUNTED AT GRADE LEVEL. SINGLE YALVES MAY BE INSTALLED IN A CARSON MODEL #910-1 VALVE BOX WITH COYER, WHILE MULTIPLE VALVES (UP TO, TWO 3/4" VALVES OR ONE, 1-1/2") SHALL BE INSTALLED IN CARSON MODEL #1419-1 BOX WITH #1419-2 COVER.

BACKFLOW PREVENTION -

 REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY WHICH SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. THE BACKFLOW SHALL BE 3/4" IN SIZE. THE BACKFLOW ASSEMBLY SHALL BE INSTALLED DOWNSTREAM OF THE IRRIGATION METER. THE UNIT MUST BE INSTALLED IN ACCORDANCE WITH ALL LOCAL AND STATE CODE REQUIREMENTS AND SHALL HAVE AN APPOYED COYER.

WATER SUPPLY/METER

THE CONTROLLER).

- THE METER SHALL BE THE OWNER'S RESPONSIBILTY. - THE METER IS 3/4" IN SIZE. SINCE THE WATER SUPPLY FOR THE SYSTEM SHALL BE POTABLE WATER, THE CONTRACTOR WILL BE REQUIRED TO INSTALL BACKFLOW PREVENTION DEVICE WHICH WILL BE LOCATED DOWNSTREAM OF THE IRRIGATION METER

- THIS IRRIGATION SYSTEM SHALL BE CAPABLE OF DELIVERING 33 GPM MINIMUM WITH ONE CONTROL STATION OPERATING AT A TIME AT THE AVAILABLE PSI AT THE BASE OF THE HEAD FOR OPTIMUM PERFORMANCE OF THE IRRIGATION SYSTEM.

CONTROLLER W/ BATTERY POWERED TIMER: - MAY BE OF COMPARABLE MANUFACTURE AND PERFORMANCE TO BRAND NAMED

(DDCWP-6-9Y SERIES) SOLID STATE UNIT. THE CONTROLLER SHALL INCORPORATE 24 V.A.C. APPROXIMATE LOCATION APPROVED BY THE NCDOT ENGINEER. - BATTERY OPERATED CONTROLLER IS TO BE PLACED IN CARSON VALVE BOXES MODEL #910-1 VAVLE WITH #910-2 COVER. - ALL 120 YAC WIRING SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE ELECTRICAL CODE REQUIREMENTS. - THE CONTRACTOR SHALL INSTALL A WIRED RAIN SENSOR (COMPATABLE MAKE/MODEL AS

THE CONTROLLER SHALL BE CUSTOM COMMAND

SLEEVING

SLEEVES SHALL BE 3" PVC FOR 24 VAC WIRING PER ELECTRICAL CODE. THE IRRIGATION CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE IRRIGATION SYSTEM WITH THE LANDSCAPE CONTRACTOR TO INSURE PROPER INSTALLATION OF BOTH THE IRRIGATION SYSTEM WITH THE LANDSCAPE AND HARDSCAPE.

24 YAC CONTROL WIRING

ALL 24 Y.A.C. CONTROL WIRING SHALL BE SINGLE STRAND COPPER WIRE WITH POLYETHYLENE PE DIRECT BURIAL INSULATION RATED FOR 300 Y.A.C. VALYE "COMMON" WIRES SHALL HAVE WHITE INSULATION WHILE VALVE "HOT" WIRES SHALL HAVE INSULATION RED IN COLOR. THE "COMMON" WIRES SHALL BE #14 AWG. "HOT" WIRES SHALL BE #14 AWG. VALVE WIRING SHALL FOLLOW MAINLINE PIPING WHERE FEASIBLE AND SHALL BE LAID IN A COMMON TRENCHLINE WITH THE MAINLINE PIPING AND IN THE BOTTOM OF THE TRENCH. WIRING SHALL BE "BUNDLED" AND TAPED AT INTERVALS OF APPROXIMATELY TEN FEET. ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS. - WIRE SPLICES SHALL BE KEPT TO AN ABSOLUTE MINIMUM. WHERE MAJOR CONCENTRATIONS OF SPLICES ARE NECESSARY SAID SPLICES SHALL BE PLACED IN A APPROVED VALVE BOX, WITH #910-2 COVER INSTALLED AT GRADE LEVEL. SPLICES AT VALVE LOCATIONS SHALL BE MADE INSIDE OF THE VALVE BOX. ALL SPLICE LOCATIONS SHALL BE NOTED ON THE AS BUILT PLAN. - WIRE RUNS SHALL BE INSTALLED WITH ENOUGH SLACK AND / OR OCCASIONAL EXPANSION LOOPS TO PREVENT EXCESSIVE STRAIN DUE TO THERMAL CONTRACTION. - ALL WIRE SPLICES SHALL BE MADE USING UL APPROVED DIRECT BURIAL CONNECTORS AND WATERPROOFING MATERIALS. ALL ELECTRICAL WORK SHALL BE INSTALLED ACCORDING TO CODE.

HEADS:

-MAY BE OF COMPARABLE MANUFACTURE AND PERFORMANCE TO BRAND NAME.

-HUNTER SERIES PRO-SPRAY POP-UPS WITH 12" POP-UP SPRAY HEAD FITTED WITH PRO ADJUSTABLE NOZZLES 4A, 6A, 8A, 10A, AND SHORT RADIUS SERIES NOZZLES 2H & 2Q. - ALL HEADS WITH A 12" POP-UP STROKE, IF INSTALLED WITH LESS THAN 1/3 OF THE SPRINKLER BODY EXPOSED ABOVE GRADE, SHALL BE INSTALLED ON POLYETHYLENE FLEX SWING JOINTS POLY PIPE FITTED WITH (%" INSERT By 为" M.P.T. AND/OR ¾" INSERT BY ¾" M.P.T.) ELBOWS. IF GREATER THAN 1/3 OF

HEADS: CONT.

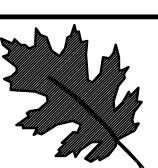
12" POP-UP HEAD SHALL BE MOUNTED ON A SCHEDULE 40 PVC PIPE RISER AS DESRCIBED BELOW IN RELATION TO MOUNTING SHRUB HEAD MODELS. INSTALL ALL HEADS LOCATED IN SHRUB BEDS ON 12" RISERS SO THAT PLANTS ARE WATERED CORRECTLY. IN MOUNTING 12" POP-UP HEADS ON SHRUB TYPE RISERS, CARE SHALL BE TAKEN TO INSTALL THE HEAD IN SUCH A MANNER THAT SURROUNDING PLANT MATERIAL (PLANNED OR EXISTING) WILL HIDE THE BODY OF THE SPRINKLER. - ALL POP-UP IRRIGATION HEADS DESIGNED ADJACENT TO CURBS OR PAYEMENT SHALL BE INSTALLED WITH A CLEARANCE OF 11/2" FROM THE EDGES OF ALL PAVED AREAS TO PROVIDE FOR EDGING AND MAINTENANCE OPERATIONS. HEADS INSTALLED ON SHRUB RISERS OR WITH THE TOP OF THE HEAD MORE THAN 1 1/2" ABOVE THE GRADE SHALL BE INSTALLED WITH A MINIMUM 6" CLEARANCE FROM PAYED AREAS. - ALL THREADED PIPE CONNECTIONS SHALL BE ASSEMBLED USING TEFLON THREAD SEALING TAPE.

THE SPRINKLER BODY IS EXPOSED, THEN THE

GENERAL NOTES - PLACES VALVES (BOXES) IN PLANT BEDS WHERE-EVER POSSIBLE. - CONTRACTOR IS TO MINIMIZE DISTURBANCE IN SOD AREA (CUT AND REPLACE SOD). - PLACE PRESSURE REDUCING VALVE IN DISCREET LOCATION. - THE IRRIGATION SYSTEM IS DISPLAYED SCHEMATIC IN NATURE. THE IRRIGATION CONTRACTOR MAY BE REQUIRED TO MAKE MINOR ADJUSTMENTS IN THE FIELD. THESE MINOR ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER BUT SHALL BE MADE ONLY AFTER NOTIFICATION IS MADE TO OWNER (NCDOT). - THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SITE SO THAT HE IS AWARE OF ANYSPECIAL CONDITIONS WHICH EXIST THAT MAY AFFECT HIS BID PROPOSAL AND SHALL HEREAFTER BE RESPONSIBLE FOR ALL COST INCURRED BY HIMSELF IN RELATION TO THE INSTALLATION. - ALL IRRIGATION PRODUCTS ARE TO BE TORO, HUNTER, RAINBIRD OR

ENGINEER). - THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING 'AS BUILT' PLANS TO THE OWNER (NCDOT) AT THE TIME OF PROJECT APPROVAL. THE PLANS SHALL BE CLEAR, CONCISE, AND SHOW ALL ELEMENTS OF THE IRRIGATION SYSTEM, THE LOCATION OF ALL EQUIPMENT, IRRIGATION LINES, NUMBERED ZONES, CONTROLLER(S), HEADS AND VALVES.

COMPARABLE BRAND (AS APPROVED BY THE



NCDOT - ROADSIDE ENVIRONMENTAL UNIT LANDSCAPE DESIGN & DEVELOPMENT

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ANGIER NC 210 & NC 55 HARNETT COUNTY WBS #: 46305.1.4



PREL DESIGN DATE: FEB 2016

IRRIGATION SPECS

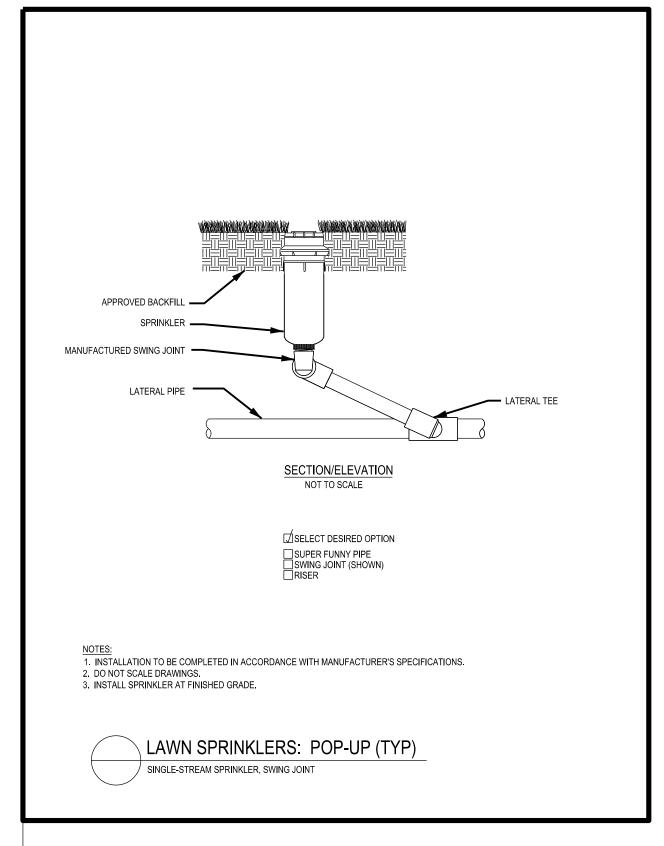
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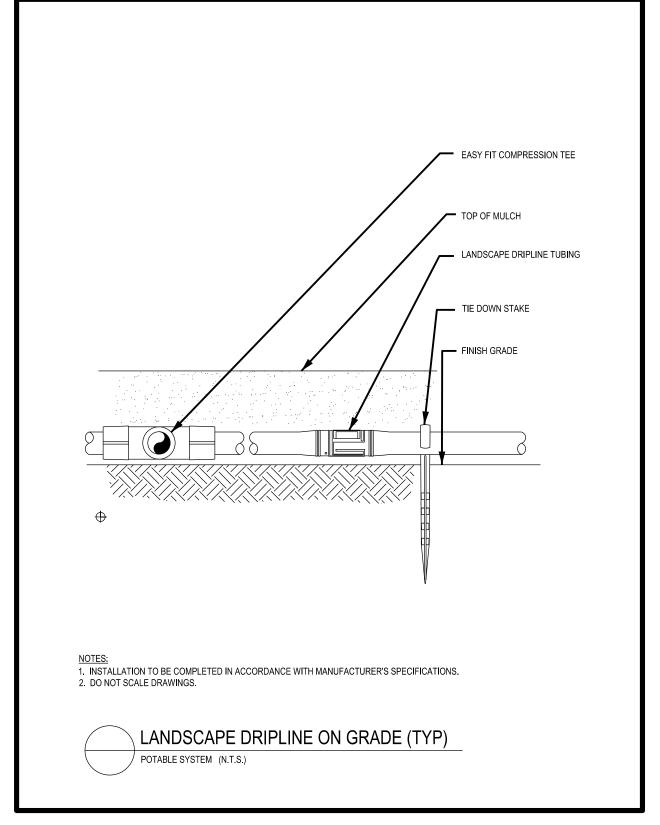


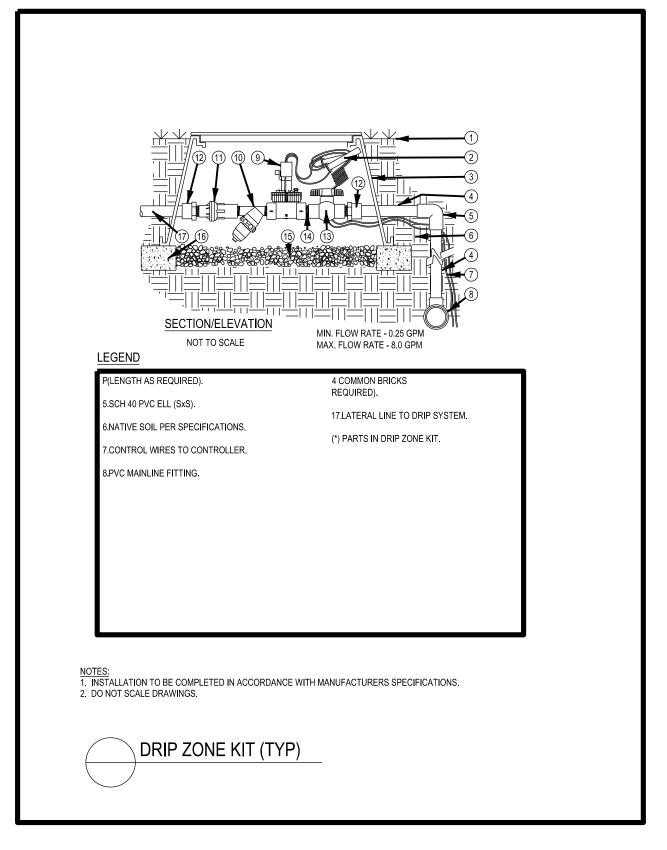
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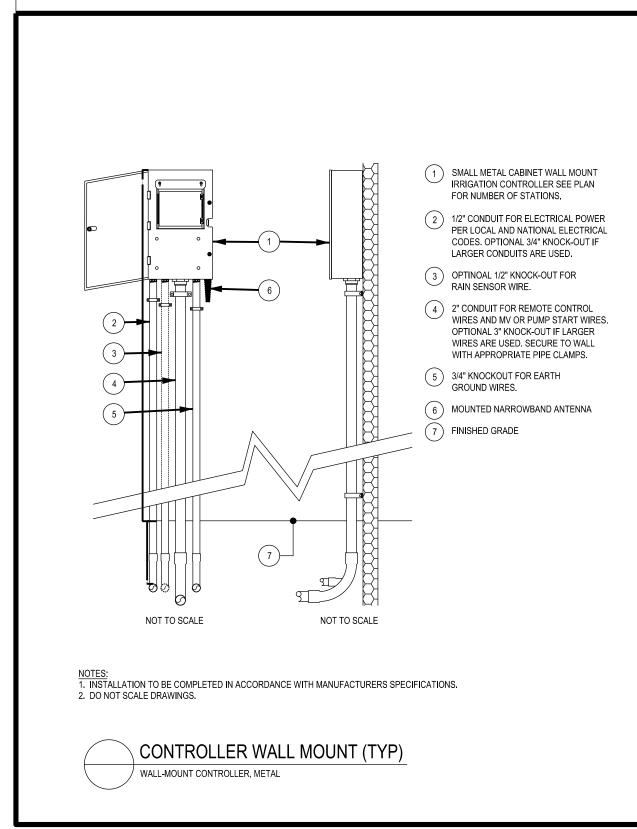
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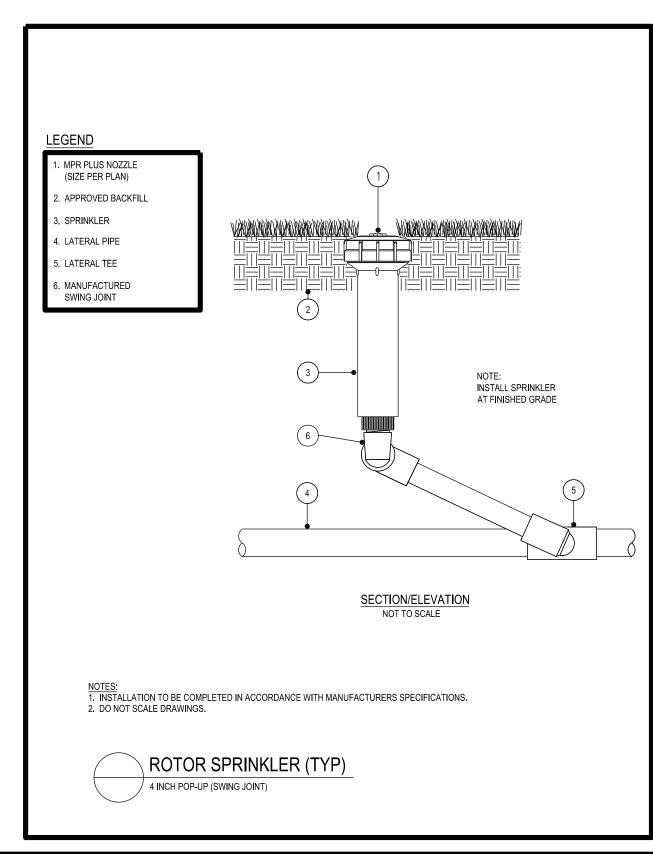
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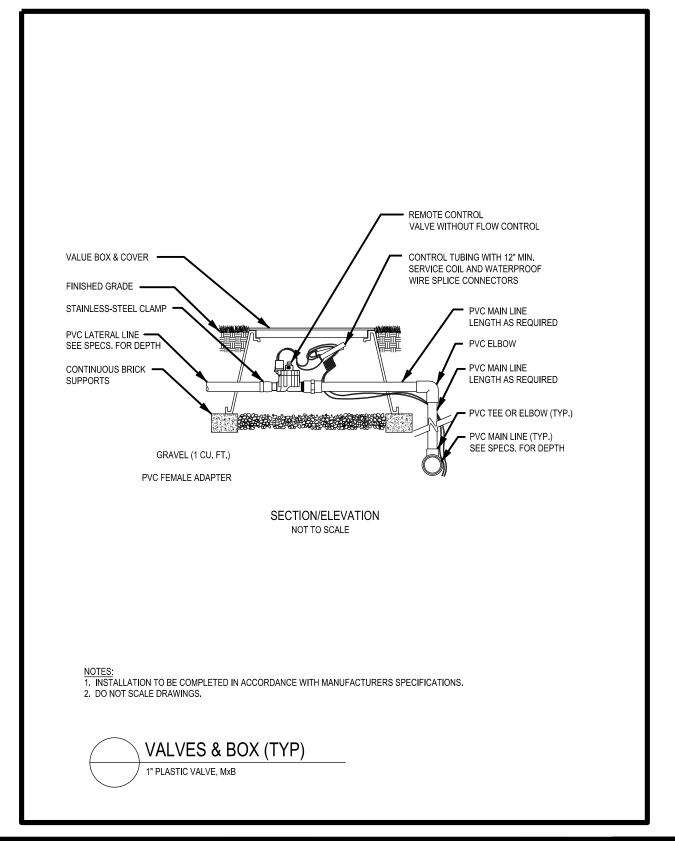


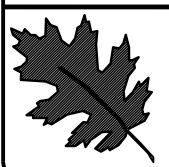












NCDOT - ROADSIDE ENVIRONMENTAL UNIT
LANDSCAPE DESIGN & DEVELOPMENT

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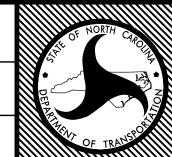
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ANGIER NC 210 & NC 55
HARNETT COUNTY
WBS#: 46305.1.4



EL DESIGN DATE: FEB 2016	IRRIGATION DEATILS
ECKED BY & DATE:	SPECS. SHEET

FINAL DESIGN DATE: MARCH 18, 2016



OF WORTH CAR	T.I.P. #	
OF THE PROPERTY.	WBS # 4630	5.1.4
Z	FED I.D. #	
o et	SHEET NO:	TOTAL SHEET N

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