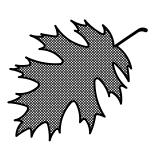
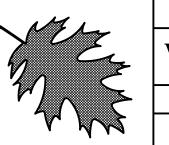
ayetteville in Blvd 4/B N NC 206 5 >



HIGHWAY LANDSCAPE DEVELOPMENT PROJECT



County Line.

Property Line

Easement Line

Prop. Woven Wire Fence

Denotes Line Equality

Tower Pole and Line

Sanitary Sewer Line

L 1.0 - Title Sheet

L 2.0 - Planting Details

L 11.0 - Irrigation Details

L 3.0 - L 9.0 - Planting Plans

L 10.0 - Irrigation Specifications

L 12.0 - L 18.0 - Irrigation Plans

Exist. Power Pole

Exist. Fence.

Guardrail

Bridge.

Railroad

Gas Line..

Picnic Shelter Regeneration.

Reforestation

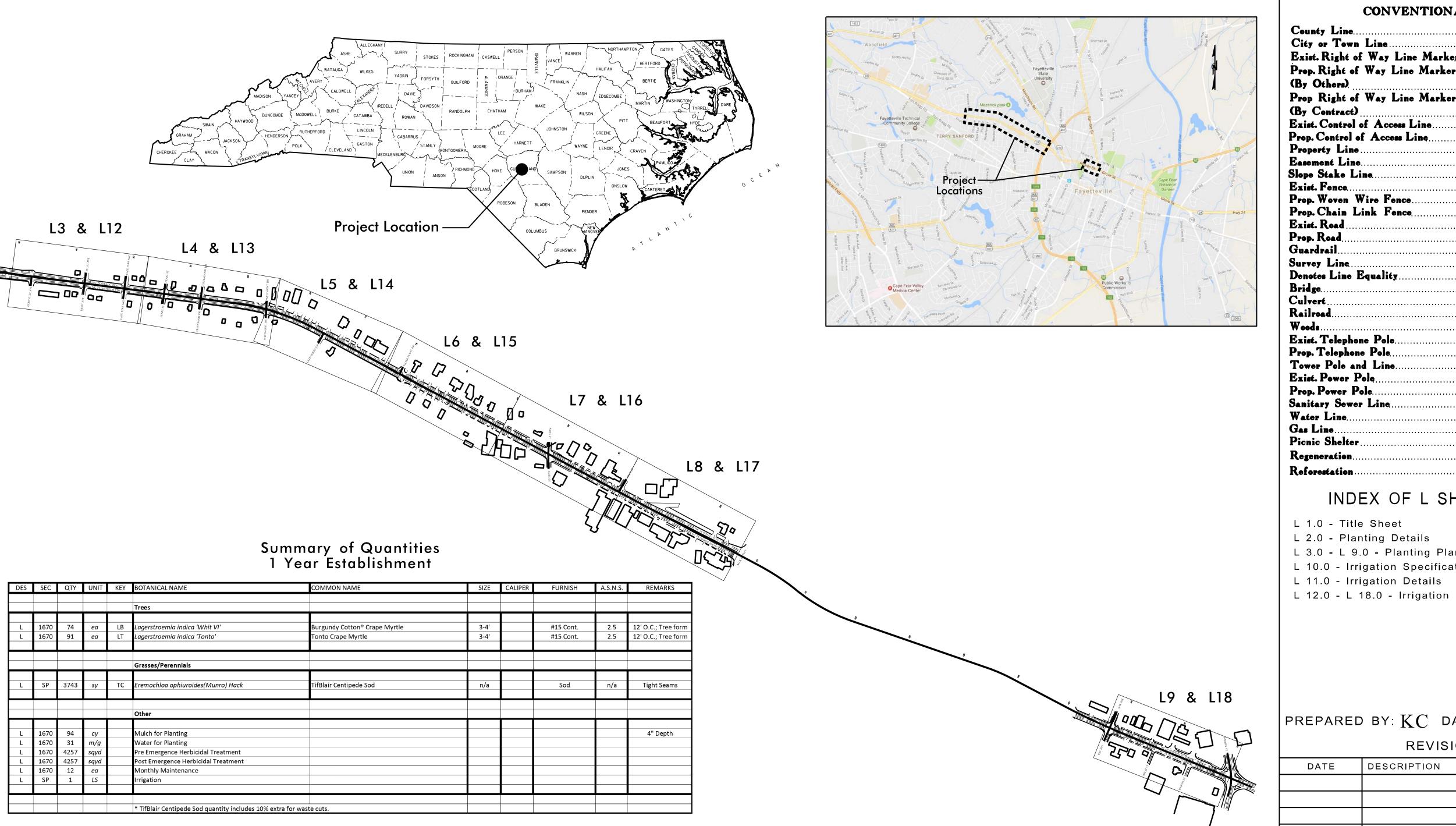
City or Town Line

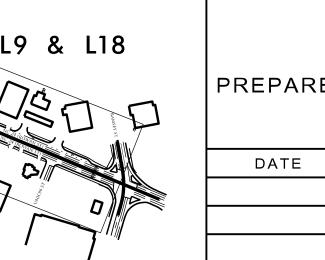
T.I.P. #	STATE PROJECT W.B.S. #	SHEET #	SHEET # TOTAL
W-5206AM		L1	18
FED. PROJ. #	DESCRIPTION		DIVISION
_	TIP		6

Exist. Right of Way Line Marker...______

Prop. Right of Way Line Marker

CONVENTIONAL SYMBOLS



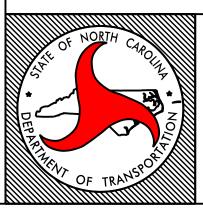


PREPARED BY: KC DATE: 03/2017

INDEX OF L SHEETS:

REVISIONS

DATE	DESCRIPTION



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

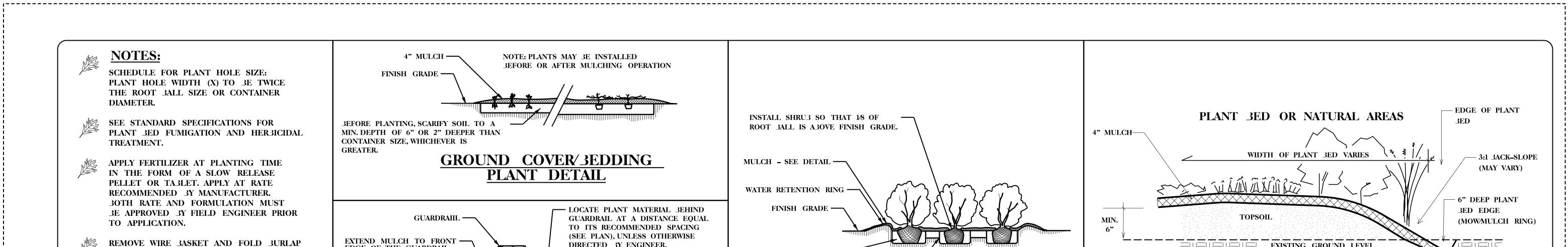
LOCATION: NC 24/Bragg Blvd. in Fayetteville

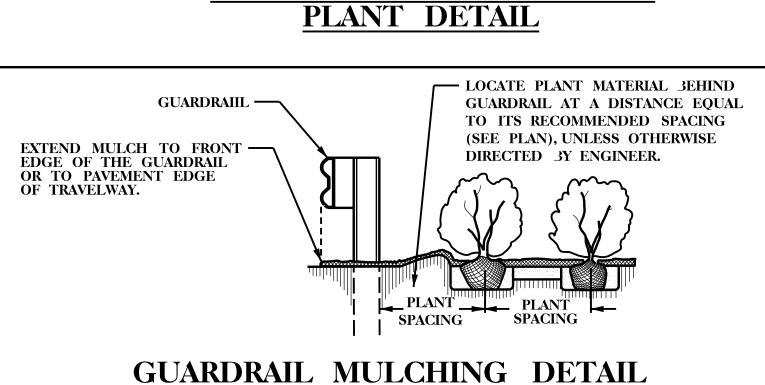
TYPE of WORK: T.I.P.

COUNTY: Cumberland County

2014	American	Standard	for	Nursery	Stock
2012	NCDOT S	TANDARD	SP	FCIFICA	TIONS

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





USE AS DIRECTED 3Y FIELD ENGINEER

GROUND COVER/3EDDING

NOTE: PLANTS MAY 3E INSTALLED

3EFORE OR AFTER MULCHING OPERATION

4" MULCH —

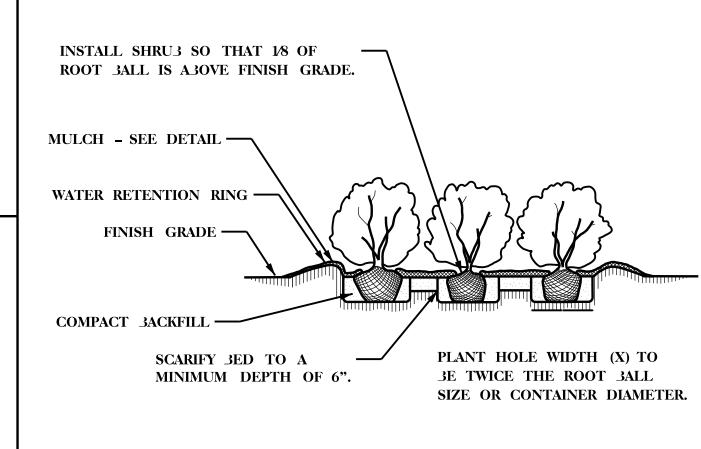
FINISH GRADE -

3EFORE PLANTING, SCARIFY SOIL TO A

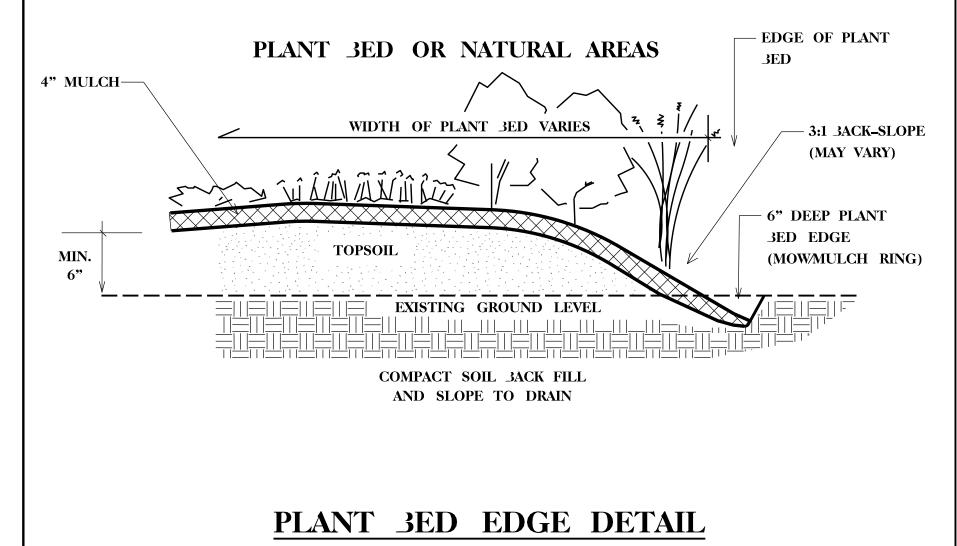
MIN. DEPTH OF 6" OR 2" DEEPER THAN

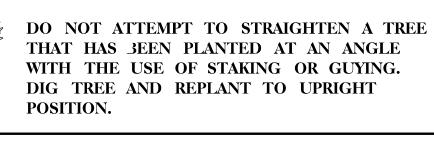
CONTAINER SIZE, WHICHEVER IS

GREATER.



SHRU3 3ED PLANTING DETAIL





3ACK FROM TOP OF ROOT 3ALL 3EFORE

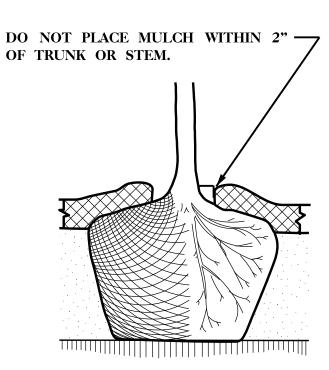
ALL PRUNING TO FOLLOW STANDARD

SPECIFIED 3Y INTERNATIONAL SOCIETY

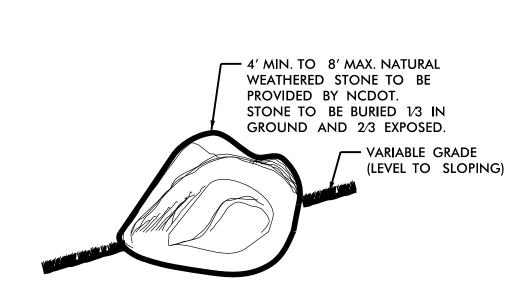
3ACKFILLING IS COMPLETE.

OF AR3ORICULTURE.

AR3ORICULTURAL PRACTICES AS





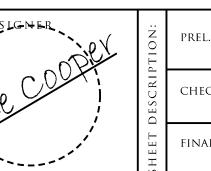


BOULDER PLACEMENT DETAIL **TYPICAL**

SCALE: NTS

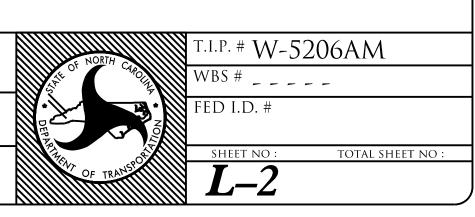
HTTP://WWW.NCDOT.ORG/DOH/OPERATIONS/DP CHIEF ENG/ROADSIDE/

CUMBERLAND COUNTY TIP #: W-5206AM



(SLOPING GROUND)

PLANTING DETAILS PREL. DESIGN DATE : March 2017 CHECKED BY & DATE : FINAL DESIGN DATE :



DO NOT REMOVE LEADER PRUNE DAMAGED 3RANCHES -INSTALL TREE OR SHRU3 SO THAT 1/8 OF ROOT , WATER RETENTION RING — FINISH GRADE -MULCH — PLANT HOLE WIDTH (X) TO BE TWICH THE ROOT JALL SIZE OR CONTAINER DIAMETER.

> TREE OR SHRU3 PLANTING DETAIL STAKING DETAIL

(TREES 6'-10') USE AS DIRECTED 3Y FIELD ENGINEER

GUYING DETAIL (TREES 10' OR LARGER) USE AS DIRECTED 3Y FIELD ENGINEER

SECTION OF RUJBER HOSE OR

WIRES AND TREE BARK

MANUFACTURED TIES BETWEEN

NCDOT - ROADSIDE ENVIRONMENTAL UNIT NC 24/BRAGG BLVD. IN FAYETTEVILLE LANDSCAPE DESIGN & DEVELOPMENT 1557 MAIL SERVICE CENTER RALEIGH NC 27699-1557 PH: 919-707-2935 FAX: 919-715-2554

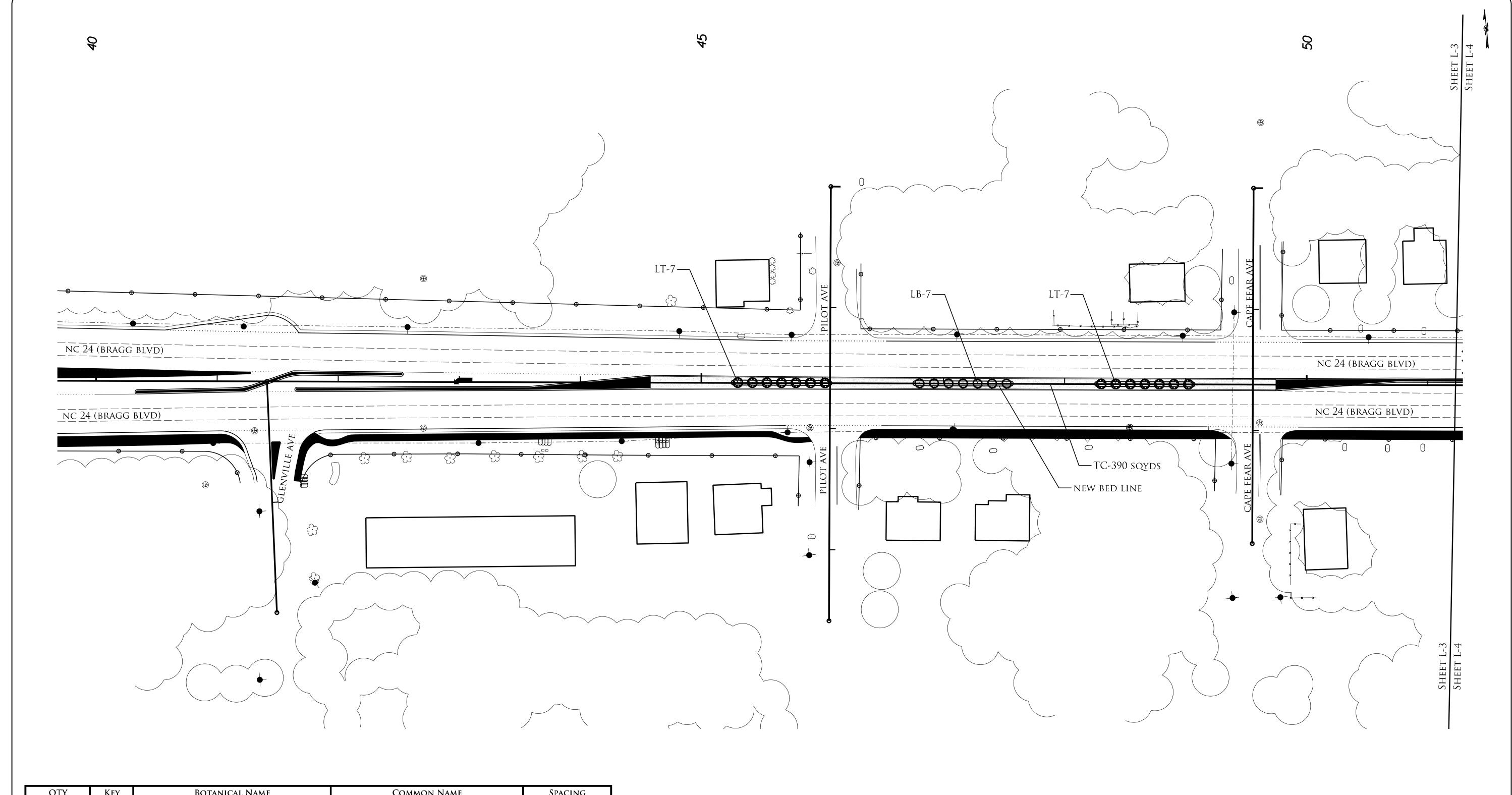
TREE OR SHRU3 PLANTING DETAIL

(LEVEL GROUND)

*EXACT LENGTH WITHIN INDICATED RANGE TO 3E DETERMINED 3Y GUY TIE DETAII ENGINEER IN FIELD N AND 14 GAUGE WIRE OR FLEXIBLE TIE MATERIAL RU33ER HOSE APPROVED 3Y ENGINEER. **SECTION** 14 GAUGE STEEL WIRE STRANDS TWISTED AROUND EACH OTHER UNTIL WIRES ARE TAUT. 1 3/4" x 1 3/4" WOODEN STAKE, 18-24" LG. STAKE TO 3E 4-6" 1 3/4" x 1 3/4" WOODEN STAKE PLAN VIEW PLAN VIEW

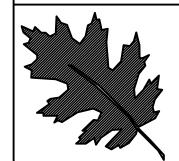
14 GUAGE STEEL WIRE





QTY	KEY	Botanical Name	COMMON NAME	Spacing
7	LB	Lagerstroemia indica 'Whit VI'	Burgundy Cotton [®] Crape Myrtle	12' O.C.
14	LT	Lagerstroemia indica 'Tonto'	Tonto Crape Myrtle	12' O.C.
390 sqyds	TC	Eremochloa ophiuroides(Munro) Hack	TifBlair Centipede Sod	Tight Seams



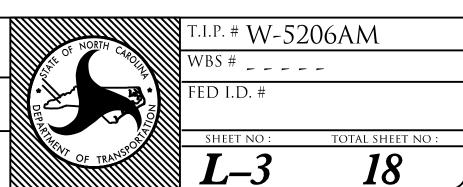


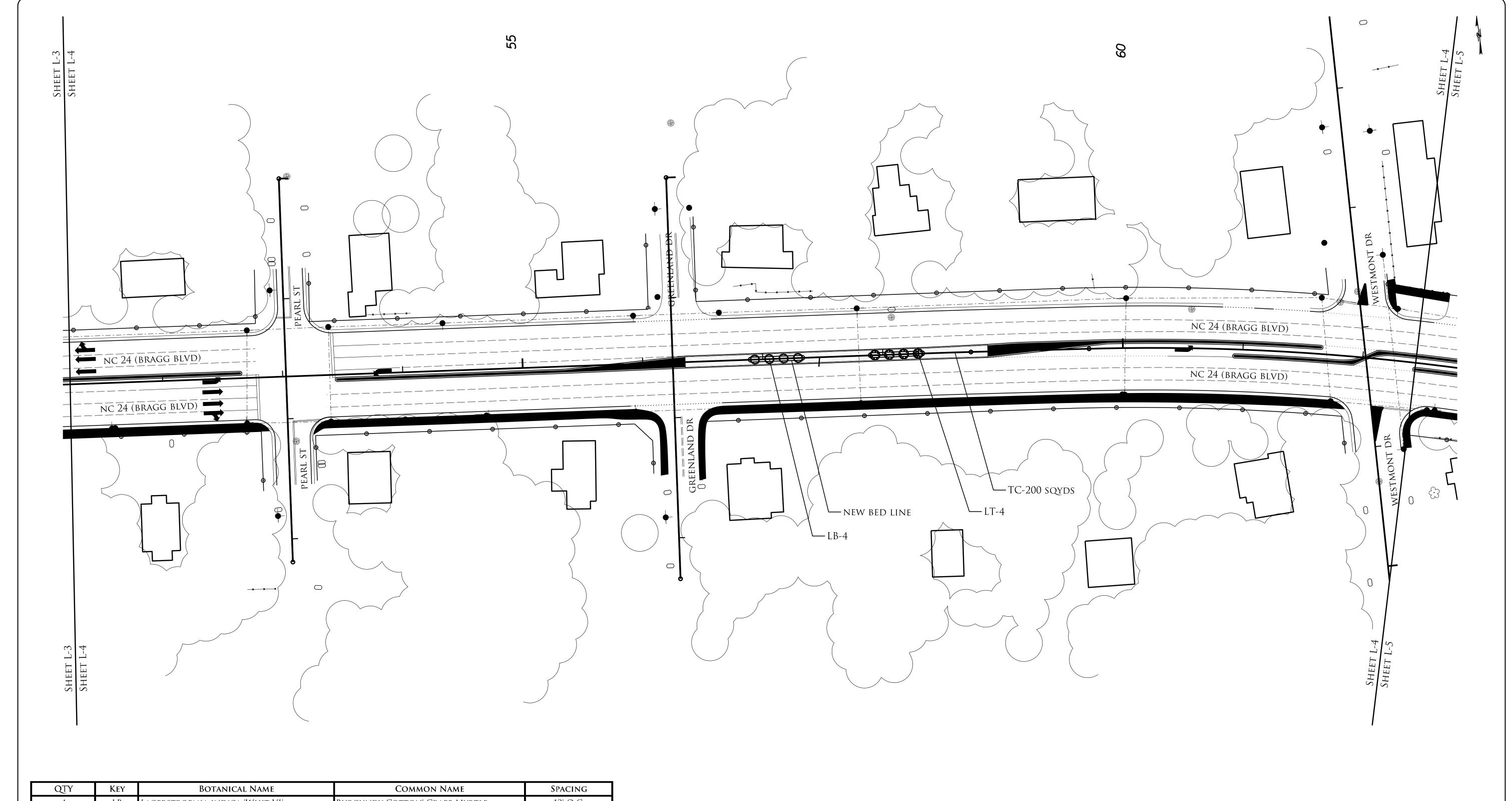
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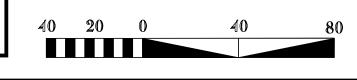
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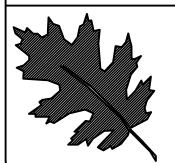
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QTY	Key	Botanical Name	COMMON NAME	Spacing
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200 sqyds	TC	Eremochloa ophiuroides(Munro) Hack	TifBlair Centipede Sod	Tight Seams



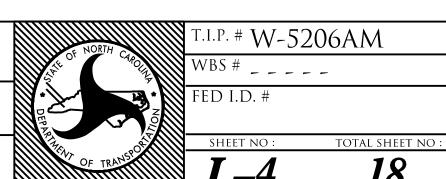


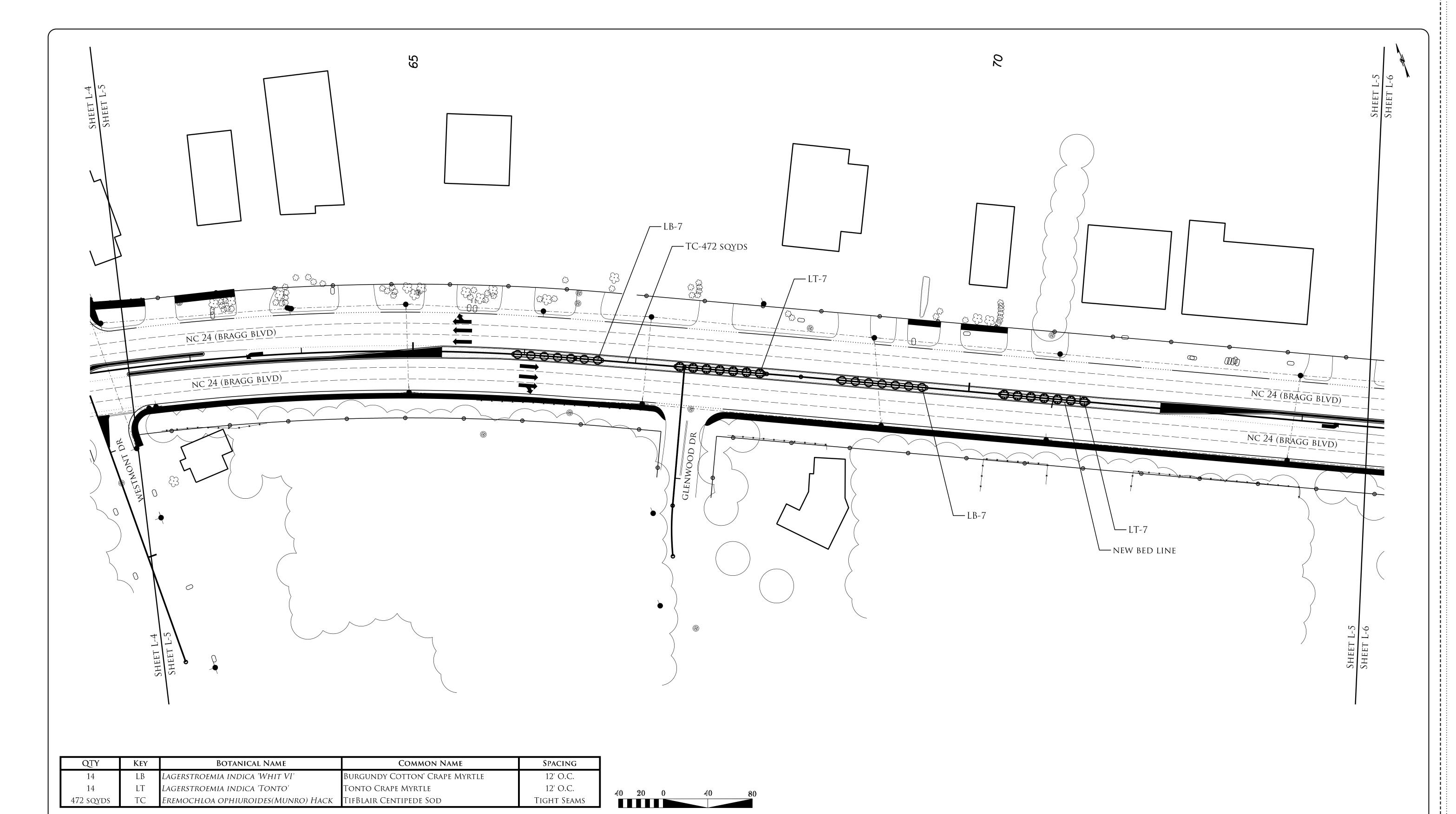
NCDOT - ROADSIDE ENVIRONMENTAL UNIT LANDSCAPE DESIGN & DEVELOPMENT

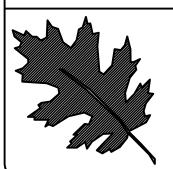
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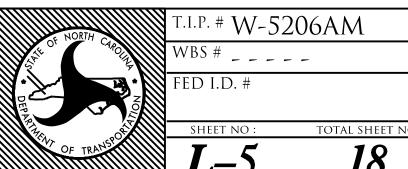


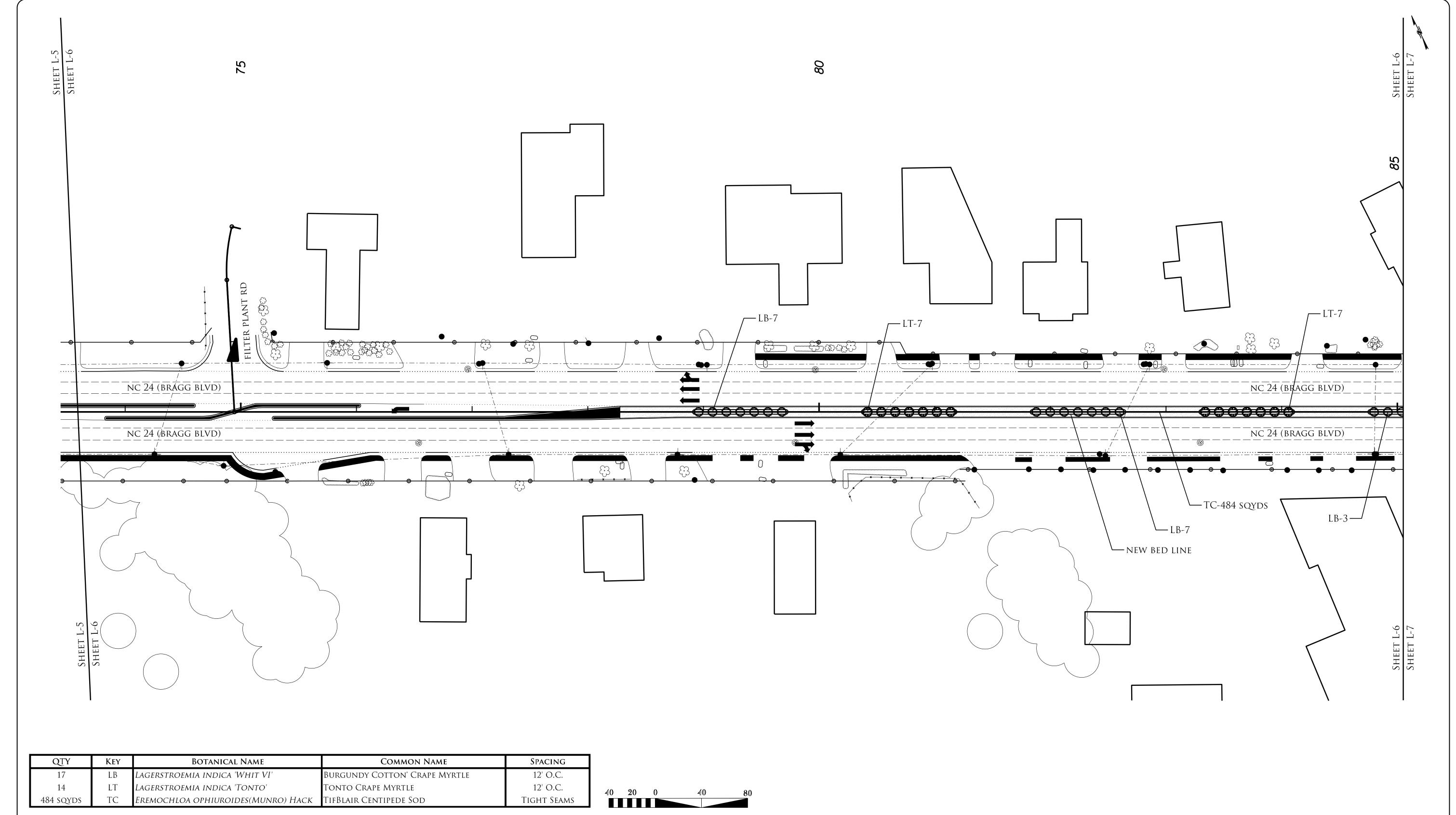
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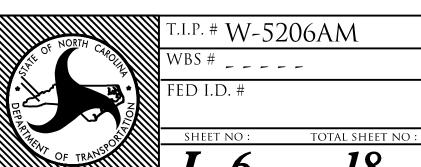


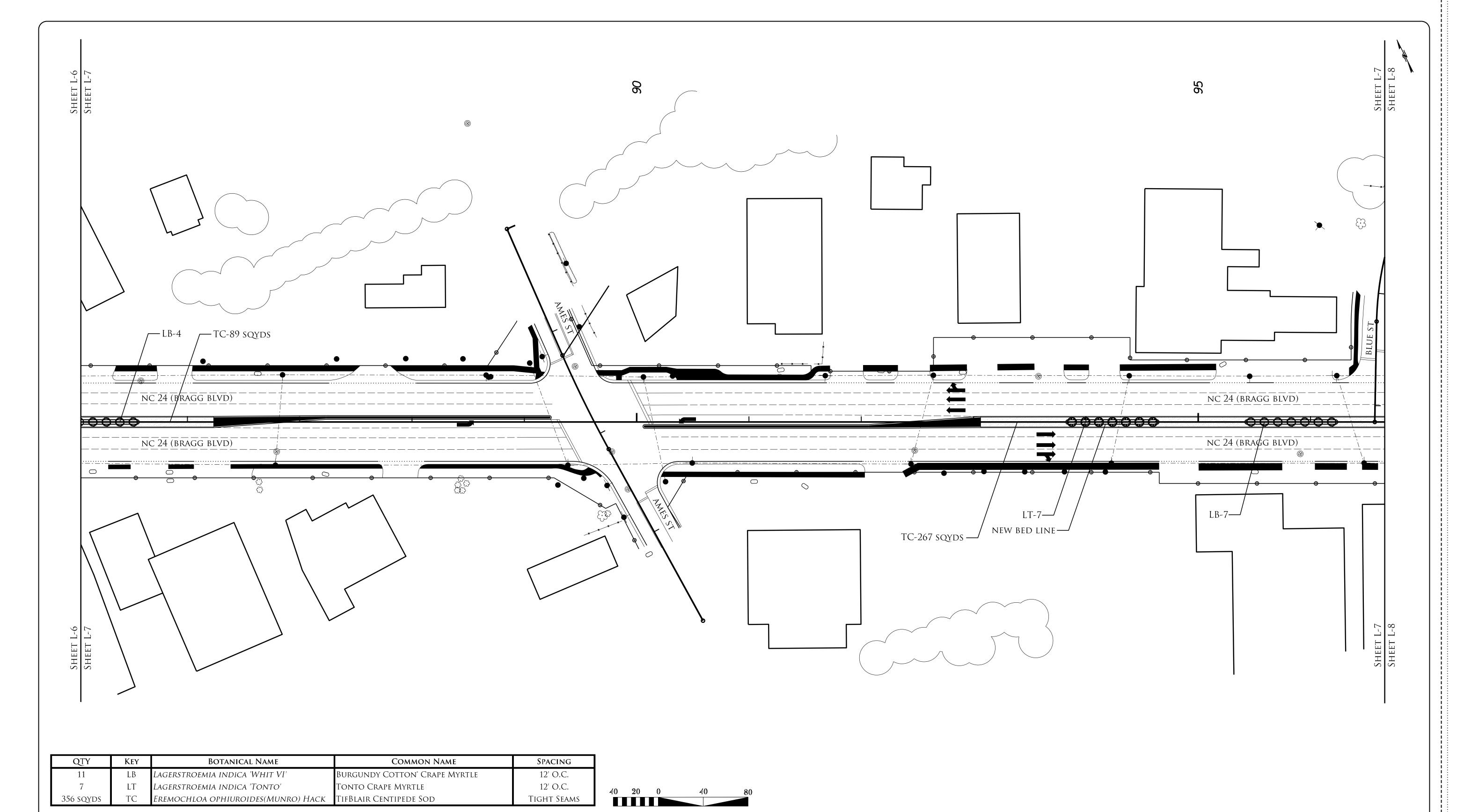
NCDOT - ROADSIDE ENVIRONMENTAL UNIT LANDSCAPE DESIGN & DEVELOPMENT

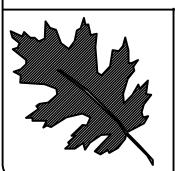
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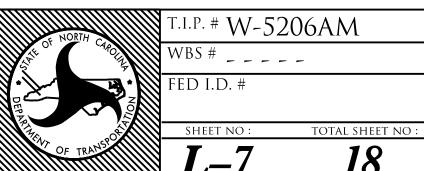


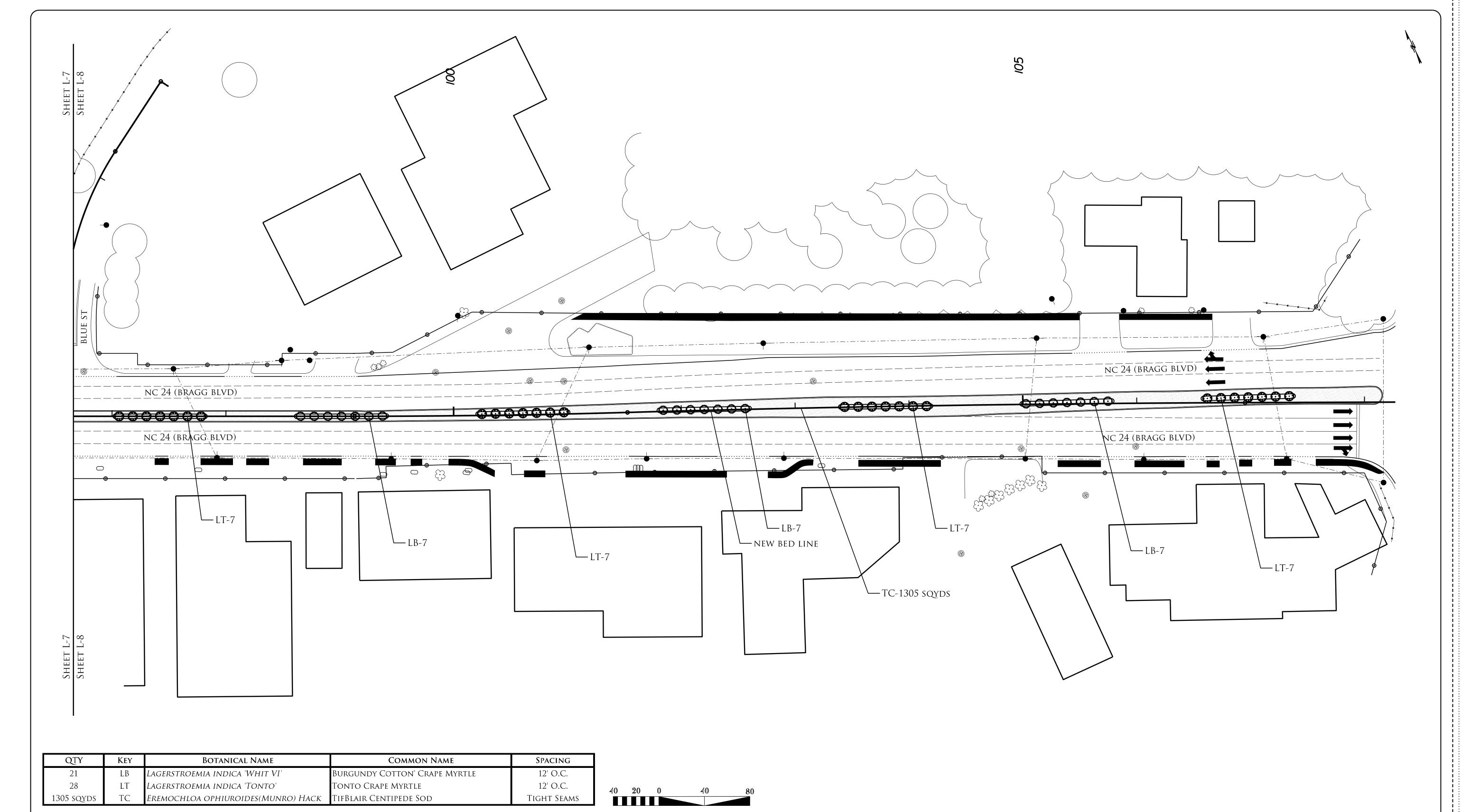
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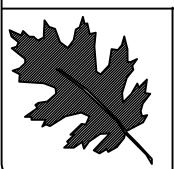
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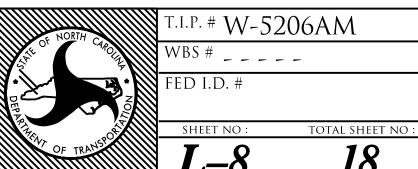


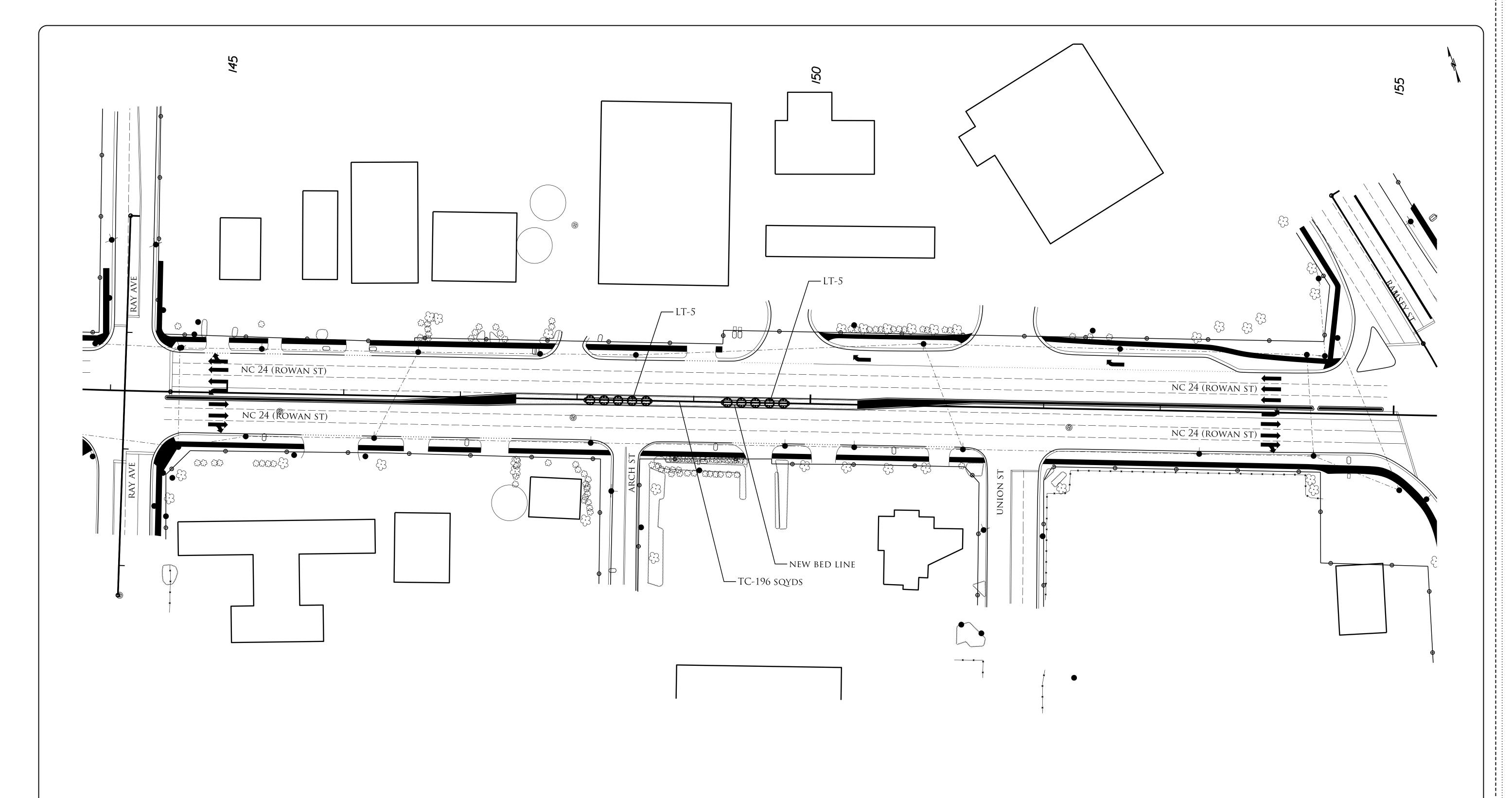
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QTY	Key	Botanical Name	Common Name	Spacing
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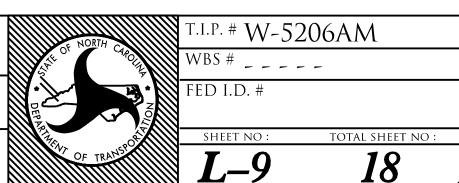


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IRRIGATION NOTES & LEGEND

*IRRIGATION CONTRACTOR MUST BE LICENSED BY THE NCICLB UNDER CHAPTER (2008-177, S.1; 2013-383, S.3) *ALL MATERIALS MAY BE OF COMPARABLE MANUFACTURE AND PERFORMANCE TO THE BRAND LISTED

GENERAL NOTES

- THE IRRIGATION DESIGN PROVIDED IN THE PLANS IS SCHEMATIC IN NATURE, AND THE IRRIGATION CONTRACTOR MAY BE REQUIRED TO MAKE MINOR ADJUSTMENTS IN THE FIELD AS NECESSARY. THESE ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER AND SHALL BE MADE ONLY AFTER NOTIFICATION IS MADE TO THE OWNER (NCDOT).

- THE CONTRACTOR(S) SHALL FAMILIARIZE THEMSELVES WITH THE SITE SO THAT THEY ARE AWARE OF ANY SPECIAL CONDITIONS THAT MAY EXIST THAT COULD AFFECT THEIR BID PROPOSAL AND SHALL HEREAFTER BE RESPONSIBLE FOR ALL COST INCURRED BY THEMSELVES IN RELATION TO THE INSTALLATION.

- PLACE VALVES & BOXES IN PLANT BEDS WHERE-EVER POSSIBLE.
- THE CONTRACTOR IS TO MINIMIZE DISTURBANCE IN SOD AREAS (CUT AND REPLACE SOD WHEN NECESSARY).
- PLACE PRESSURE REDUCING VALVES IN DISCREET LOCATIONS.
- ALL IRRIGATION PRODUCTS ARE TO BE HUNTER OR COMPARABLE BRAND (AS APPROVED BY THE DIVISION ROADSIDE ENVIRONMENTAL ENGINEER).
- IF THERE IS AN EXISTING SYSTEM IN PLACE, BE SURE TO USE IRRIGATION HEADS THAT ARE CONSISTENT WITH THE EXISTING SYSTEM.
- 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.

ESTIMATED IRRIGATION QUANTITIES

Meter Locations - 7 BACKFLOW PREVENTERS - 7 BATTERY POWERED CONTROLLERS - 7 Zones Valves - 26 Main Line Pipe - 1694 LF LATERAL PIPE - 7833 LF Spray Heads - 945 8' R - 842 12' R - 75 15' R - 28

QUANTITIES ARE ESTIMATED BASED ON DESIGN DRAWINGS. REFER TO PLANS FOR ANY DISCREPANCIES. PLANS TAKE PRIORITY OVER THESE ESTIMATED QUANTITIES. ESTIMATED QUANTITIES DO NOT COVER ALL MATERIALS NECESSARY FOR installation. Quantities may be adjusted slightly DUE TO SITE CONDITIONS, SPECIFIC IRRIGATION EQUIPMENT, AND IMPLEMENTATION, OR AS DIRECTED BY THE NCDOT Engineer.

BACKFLOW PREVENTION

- THE REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR. THE BACKFLOW SHALL BE 1.5" 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 APPROVED COVER.

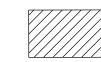
CONTROLLER W/ BATTERY POWERED TIMER

- CONTROLLER MAY BE OF COMPARABLE MANUFACTURE AND PERFORMANCE TO THE BRAND NAMED.

-THE CONTROLLER SHALL BE A HUNTER I-CORE MODULAR UNIT. THE CONTROLLER SHALL INCORPORATE A 24 VAC WITH THE APPROXIMATE LOCATION SHOWN ON THE PLANS. LOCATION MUST BE APPROVED BY THE NCDOT ENVIRONMENTAL ROADSIDE ENGINEER.

- The Battery operated controller is to be placed in Carson VALVE BOXES MODEL #910-1 WITH #910-2 COVERS.
- ALL 120 VAC WIRING SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE ELECTRICAL CODE REQUIREMENTS.
- The contractor shall install a wired Hunter rain sensor that IS COMPATIBLE WITH THE MAKE AND MODEL OF THE CONTROLLER. THE RAIN SENSOR MOUNT IS TO BE PAINTED A DARK HUNTER GREEN IN ORDER TO BLEND INTO THE LANDSCAPE.

DRIP IRRIGATION



- Drip Irrigation is to be 1/2" Netafim Techline DL tubing (or COMPARABLE MANUFACTURE AND PERFORMANCE) WITH EMITTERS SPACED AT 18" INTERVALS AT 1 GPM. AN APPROVED INLINE EMITTER DRIP LINE IS TO BE INSTALLED UNDER MULCH IN LANDSCAPE AREAS AS SHOWN ON THE IRRIGATION PLAN. (INSTALL DRIP LINE BEFORE MULCH IS INSTALLED.)

- Drip Valve Assembly, which includes a hunter PCZ-101 remote CONTROL VALVE WITH FLOW CONTROL FEATURE, A MESH FILTER, AND A PRESSURE REGULATOR. THE FLOW CONTROL VALVES SHALL BE NOTED ON BOXES WITH LIDS MOUNTED AT GRADE LEVEL.

- A MINIMUM OF 2 EMITTERS PER SHRUB AND 3 EMITTERS PER TREE SHALL BE INSTALLED.

<u>HEADS</u>

- ► HUNTER PRO-SPRAY POP-UP SPRAY HEAD FITTED WITH PRO ADJUSTABLE Nozzles or 90°, 180°, 270°, and 360° Pro-spray fixed arc nozzles with the following radii: 8', 12', and 15'.
- ALL HEADS WITH A 6"-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 JOINT POLY PIPE FITTED WITH ELBOWS (3/8" INSERT BY 1/2" M.P.T. AND/OR 3/8" INSERT BY 3/4" M.P.T.
 - -IF GREATER THAN 1/3 OF THE SPRINKLER BODY IS EXPOSED, THEN THE 6"-12" POP-UP HEAD SHALL BE MOUNTED ON A SCHEDULE 40 PVC PIPE RISER AS DESCRIBED BELOW IN RELATION TO MOUNTING SHRUB HEAD MODELS. IN MOUNTING 6"-12" POP-UP HEADS ON SHRUB TYPE RISERS, CARE SHALL BE TAKEN TO INSTALL THE HEAD IN SUCH A MANNER THAT THE SURROUNDING PLANT MATERIAL (PLANNED OR EXISTING) WILL HIDE THE BODY OF THE SPRINKLER.
 - ALL POP-UP IRRIGATION HEADS DESIGNED ADJACENT TO CURBS OR PAVEMENT SHALL BE INSTALLED WITH A CLEARANCE OF 1 1/2" 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 $1 \frac{1}{2}$ above the grade shall be installed WITH A MINIMUM 6" CLEARANCE FROM PAVED AREAS.
 - ALL THREADED PIPE CONNECTIONS SHALL BE ASSEMBLED USING TEFLON THREAD SEALING TAPE.

<u>PIPE</u>

- PR 200 PVC Lateral Piping

-Minimum depth of cover over lateral piping to be 12". Lateral PIPE SIZING SCHEDULE AND SUMMATION OF GALLONAGE DEMAND ON A PARTICULAR BRANCH 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 THE PRESSURE AS REPORTED IN THE HUNTER IRRIGATION PRODUCTS' CATALOG. PIPE SIZES FOR THE LATERAL LINES SHALL BE AS FOLLOWS:

- FOR 0 TO 15 GPM ACCUMULATED FLOW USE 3/4" PR 200 PVC PIPE.
- FOR 15 UP TO 35 GPM USE 1" PVC PIPE.
- ALLOW FOR FRICTION LOSS.

- Size of Pipe to be a minimum of 1 1/2" - Depth of Cover of Mainline Piping to be 18"
- PIPING SHALL BE PR 200 SOLVENT WELD PVC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTINGS UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID DAMAGING EXISTING PLANTINGS AND THEIR ROOTS DURING THE INSTALLATION OF THE IRRIGATION SYSTEM AND SHALL COORDINATE THEIR EFFORTS WITH THE LANDSCAPE CONTRACTOR TO OPTIMIZE THE EFFICIENCY AND THE AESTHETIC QUALITY OF THE INSTALLATION.

SLEEVES

- Sleeves shall be 4" PVC. The Irrigation Contractor shall COORDINATE WITH THE LANDSCAPE CONTRACTOR TO INSURE PROPER INSTALLATION OF THE IRRIGATION SYSTEM WITH THE LANDSCAPE AND HARDSCAPE.

ELECTRIC CONTROL VALVE

- Valves may be of comparable manufacture and performance to THE BRAND NAMED.
- LOCATION OF ELECTRIC 24 VAC REMOTE CONTROL VALVE WITH FLOW CONTROL FEATURE (HUNTER PGV-ASV VALVES)
- ALL REMOTE CONTROL VALVES SHALL BE INSTALLED IN CARSON VALVE BOXES WITH LIDS MOUNTED AT GRADE LEVEL. SINGLE VALVES MAY BE INSTALLED IN A CARSON MODEL #910-1 VALVE BOX WITH COVER, WHILE MULTIPLE VALVES (UP TO, 2 - 1" VALVES OR 1 - 1 1/2") SHALL BE INSTALLED IN CARSON MODEL #1419-1 BOX WITH #1419-2 COVER.

M WATER SUPPLY/METER

- THE METER SHALL BE THE OWNER'S/TOWN'S RESPONSIBILITY.
- The meter is 1.5" in size. Since the water supply for the SYSTEM WILL BE POTABLE WATER, THE CONTRACTOR WILL BE REQUIRED TO INSTALL A 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 60 psi AT THE BASE OF THE HEAD FOR OPTIMUM PERFORMANCE OF THE IRRIGATION SYSTEM.

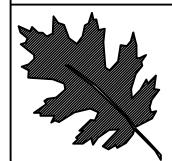
24 VAC CONTROLLER WIRING

- ALL 24 VAC CONTROL WIRING SHALL BE SINGLE STRAND COPPER WIRE with Polyethylene PE direct burial insulation rated for 300 VAC VALVE "COMMON" WIRES SHALL HAVE WHITE INSULATION WHILE VALVE "HOT" WIRES SHALL HAVE RED INSULATION. BOTH THE "COMMON" AND "HOT" WIRES SHALL BE #14 AWG. VALVE WIRING SHALL FOLLOW MAINLINE PIPING WHERE FEASIBLE AND SHALL BE LAID IN THE BOTTOM OF THE TRENCH LINE WITH THE MAINLINE PIPING. 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, THEY 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 EXPANSION LOOPS TO PREVENT EXCESSIVE STRAIN DUE TO THERMAL CONTRACTION.

- ALL WIRE SPLICES SHALL BE MADE USING UL APPROVED DIRECT BURIAL CONNECTORS AND WATERPROOF MATERIALS. ALL ELECTRICAL WORK SHALL BE INSTALLED ACCORDING TO CODE



NCDOT - ROADSIDE ENVIRONMENTAL UNIT LANDSCAPE DESIGN & DEVELOPMENT

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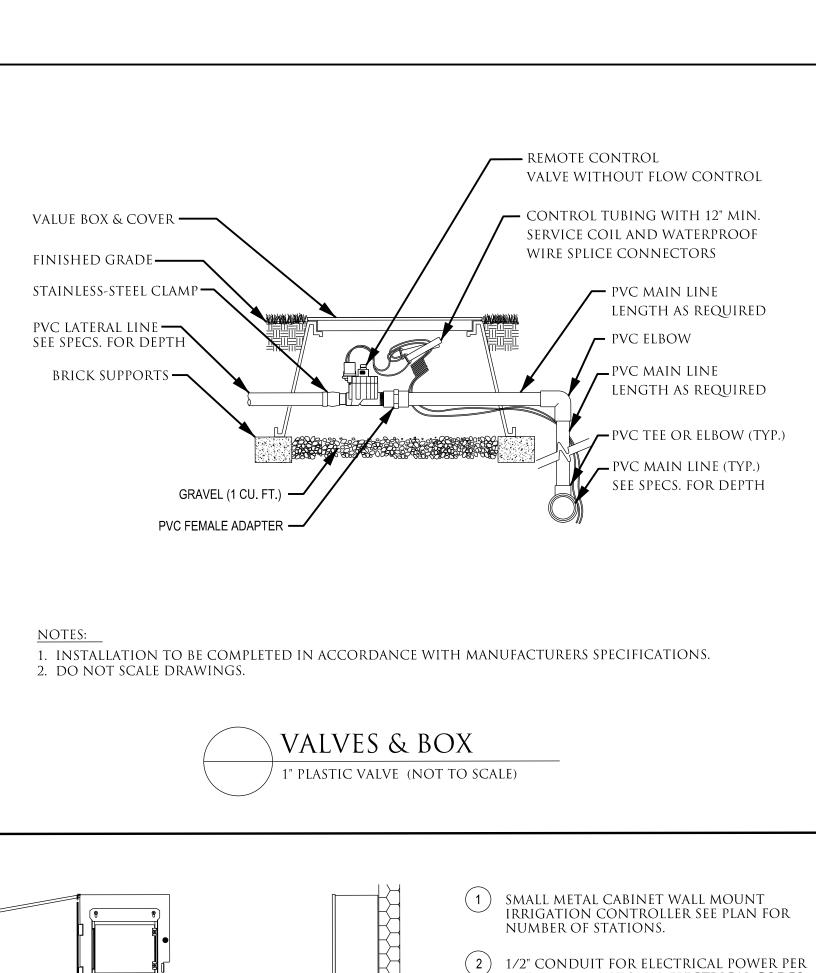
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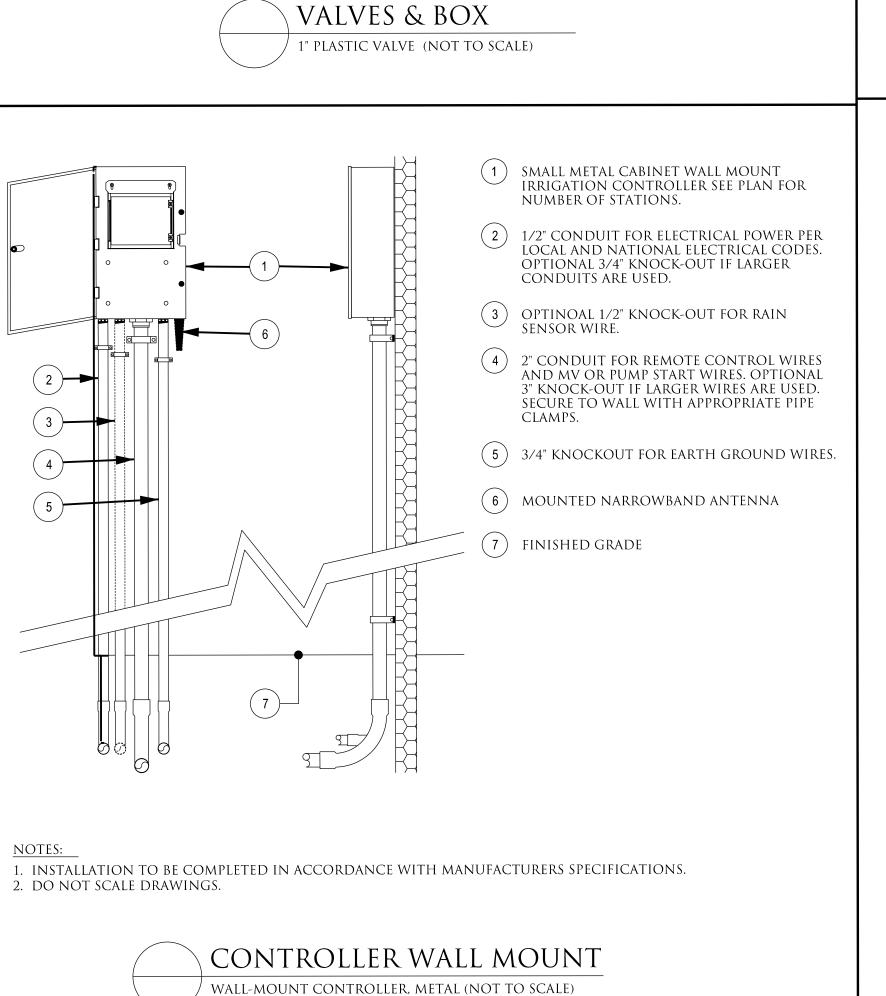
NC 24/BRAGG BLVD. IN FAYETTEVILLE CUMBERLAND COUNTY TIP #: W-5206AM

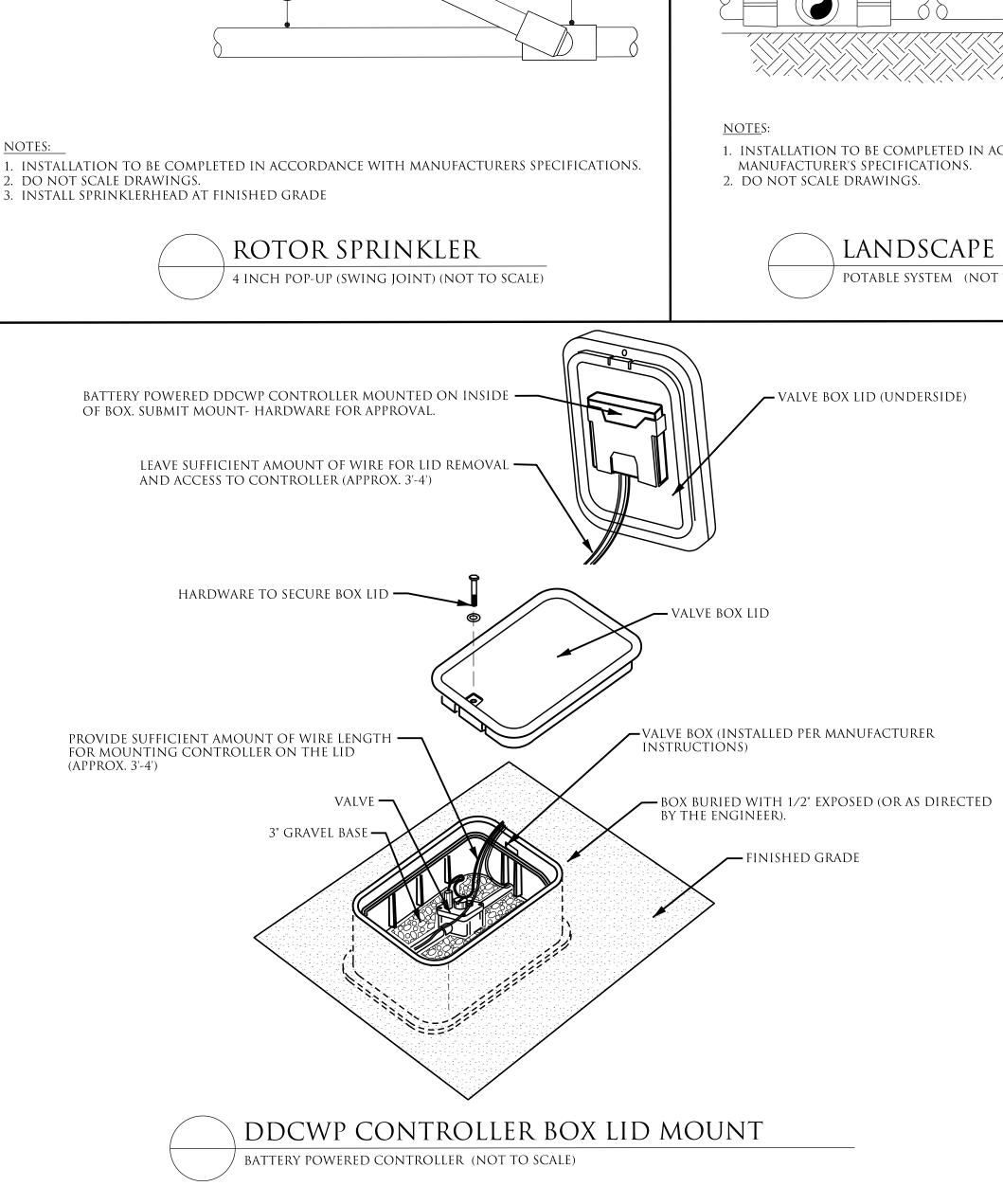
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,		FINAL DESIGN DATE :		



T.I.P. # W-5206AM TOTAL SHEET NO :







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LEGEND

1. MPR PLUS NOZZLE

(SIZE PER PLAN)

3. SPRINKLER

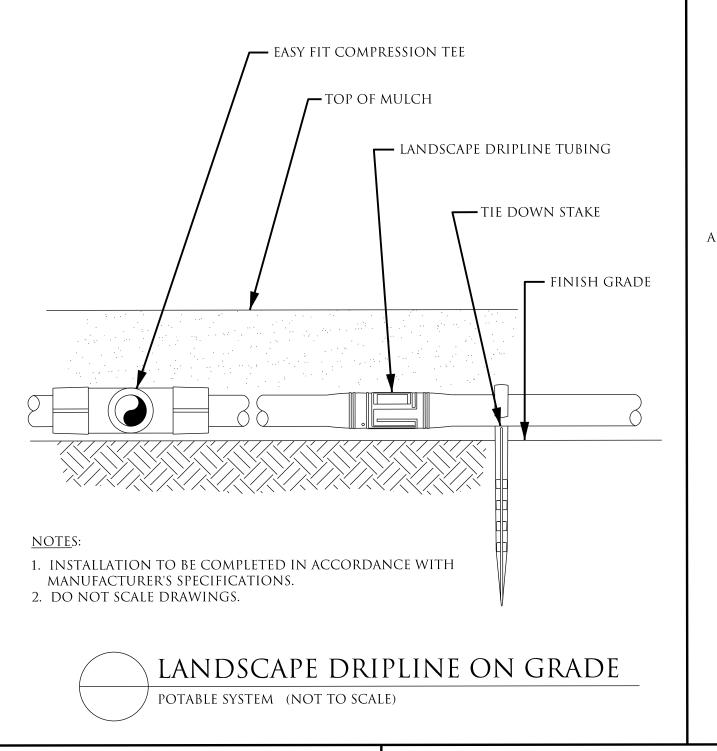
4. LATERAL PIPE

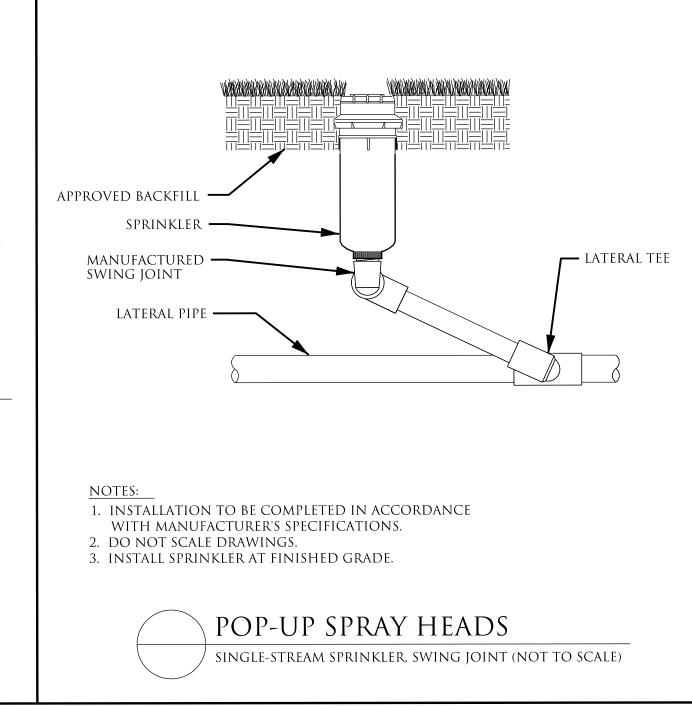
5. LATERAL TEE

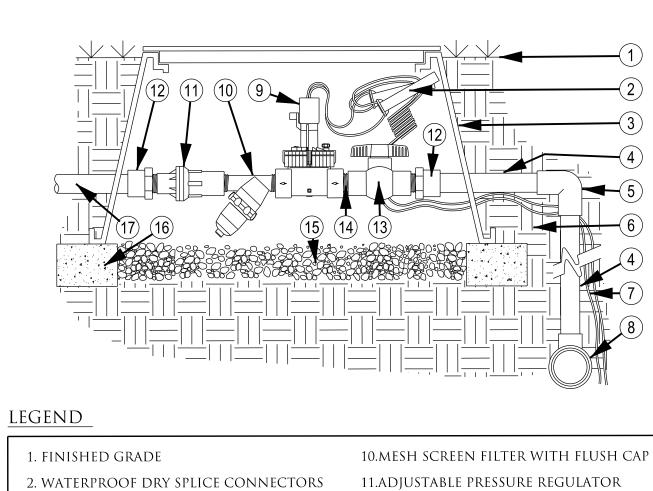
6. MANUFACTURED

SWING JOINT

2. APPROVED BACKFILI







1. FINISHED GRADE

3. 12" VALVE BOX WITH COVER

4. PVC LATERAL LINE

5. SCH 40 PVC 90° ELL JOINT

6. NATIVE SOIL PER SPECIFICATIONS. 7. CONTROL WIRES TO CONTROLLER.

8. PVC MAINLINE FITTING.

9. REMOTE CONTROL VALVE

12.PVC SCH 40 FEMALE ADAPTER 13.MANUAL VALVE

14.PVC SCH 40 TRANSITION NIPPLE

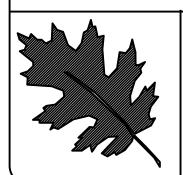
15.WASHED GRAVEL SUMP (MIN. 3")

16.BRICK SUPPORTS

17.LATERAL LINE TO DRIP SYSTEM.

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS. 2. DO NOT SCALE DRAWINGS.



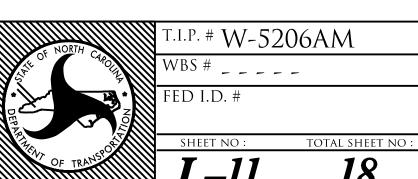


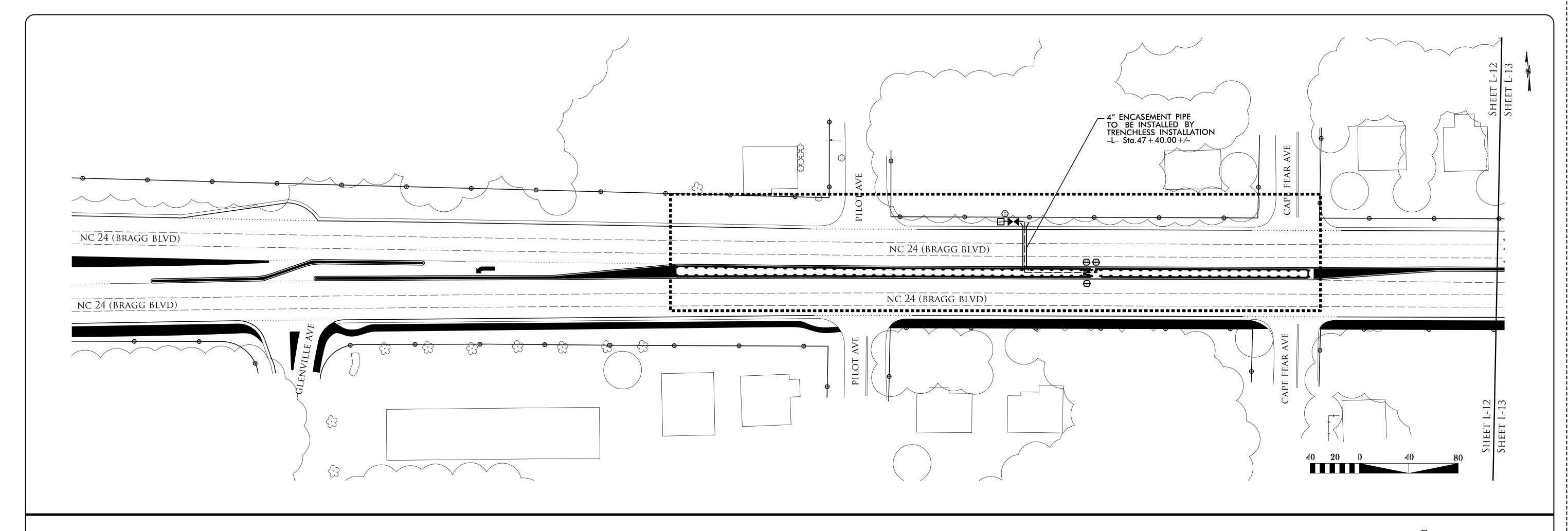
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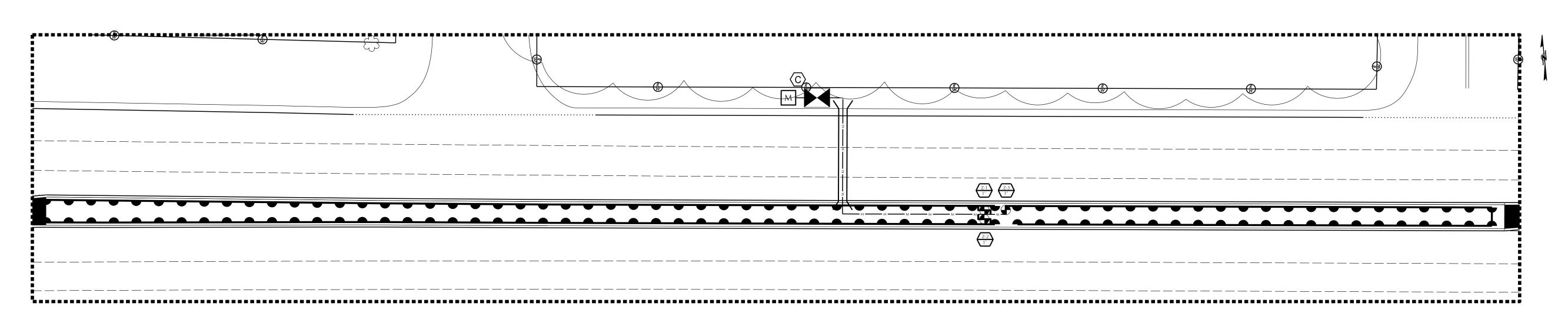
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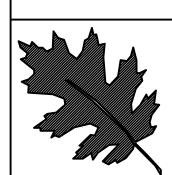








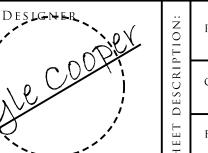




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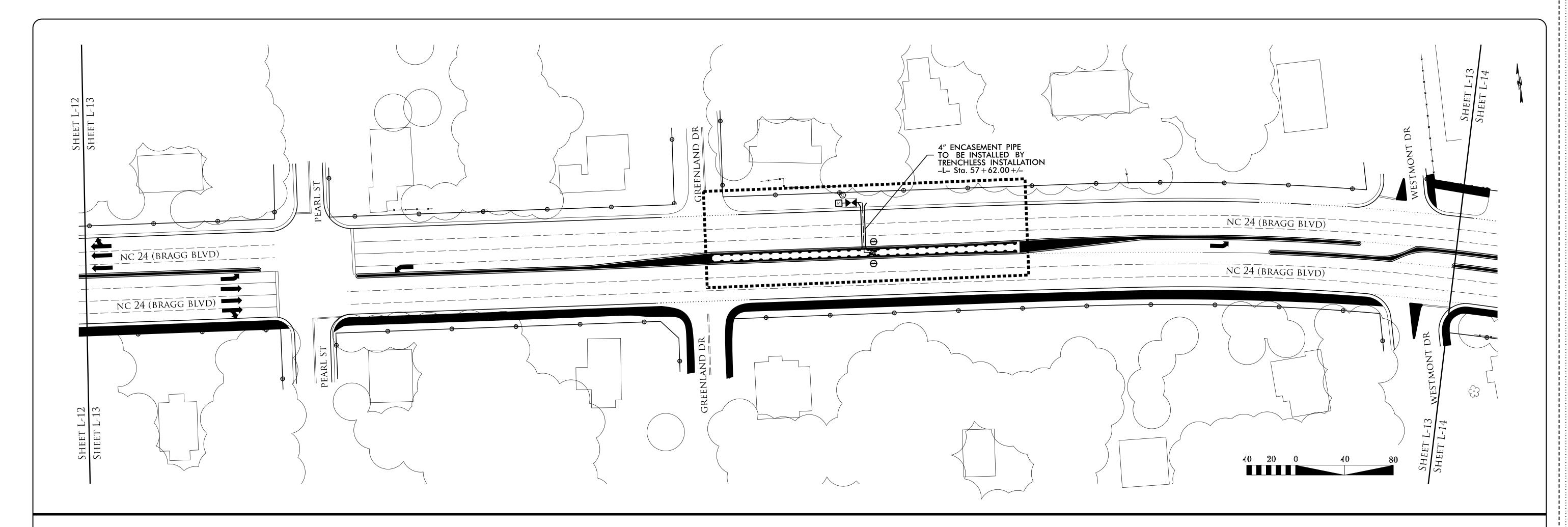
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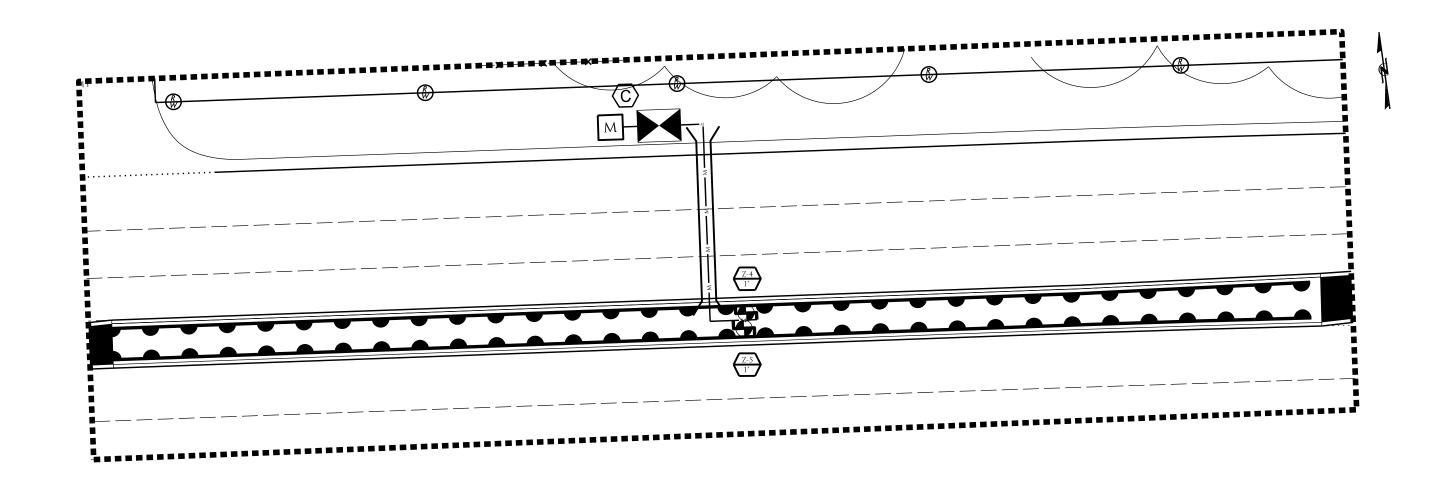
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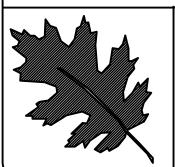
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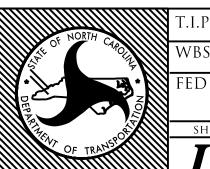
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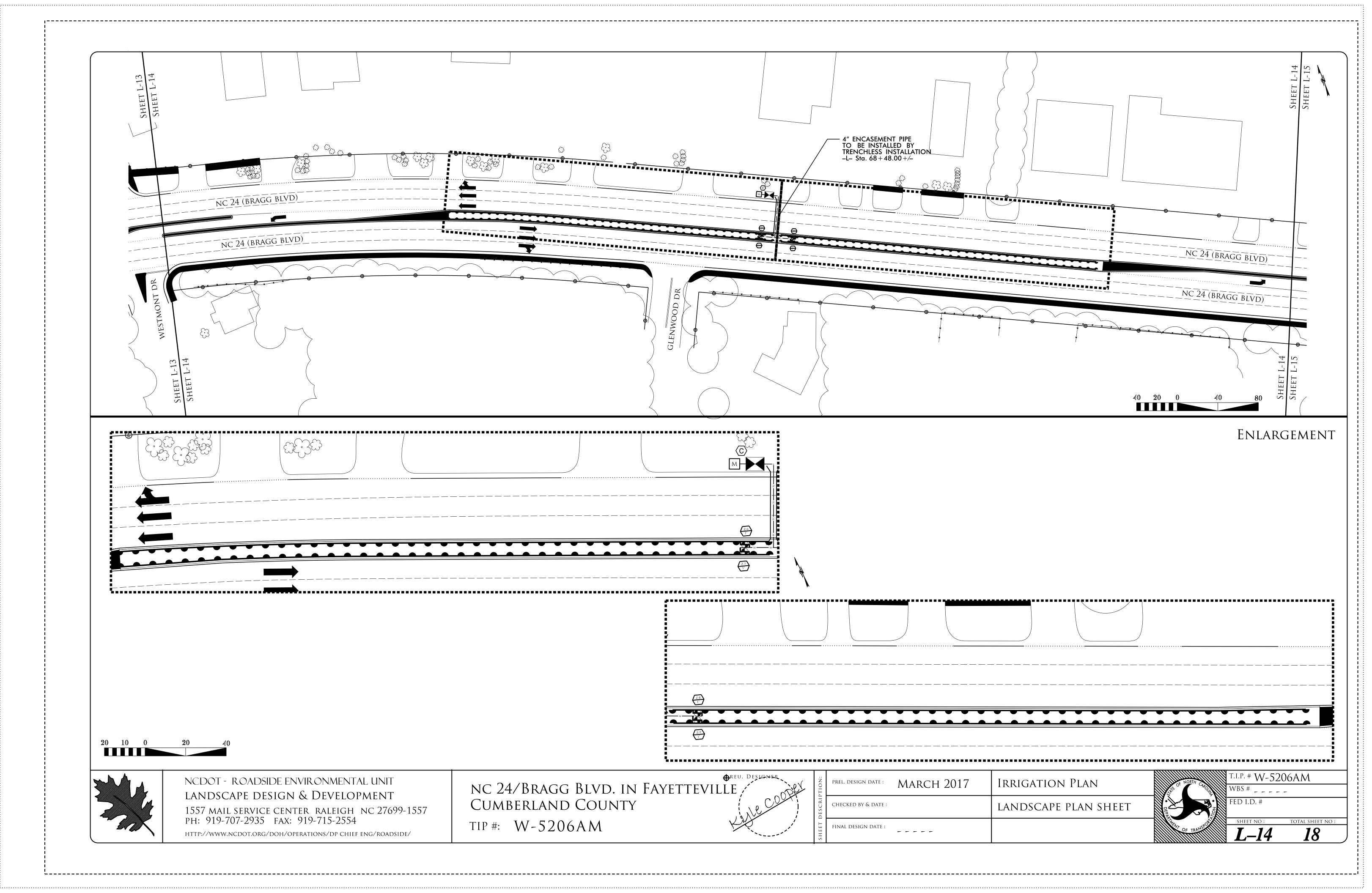
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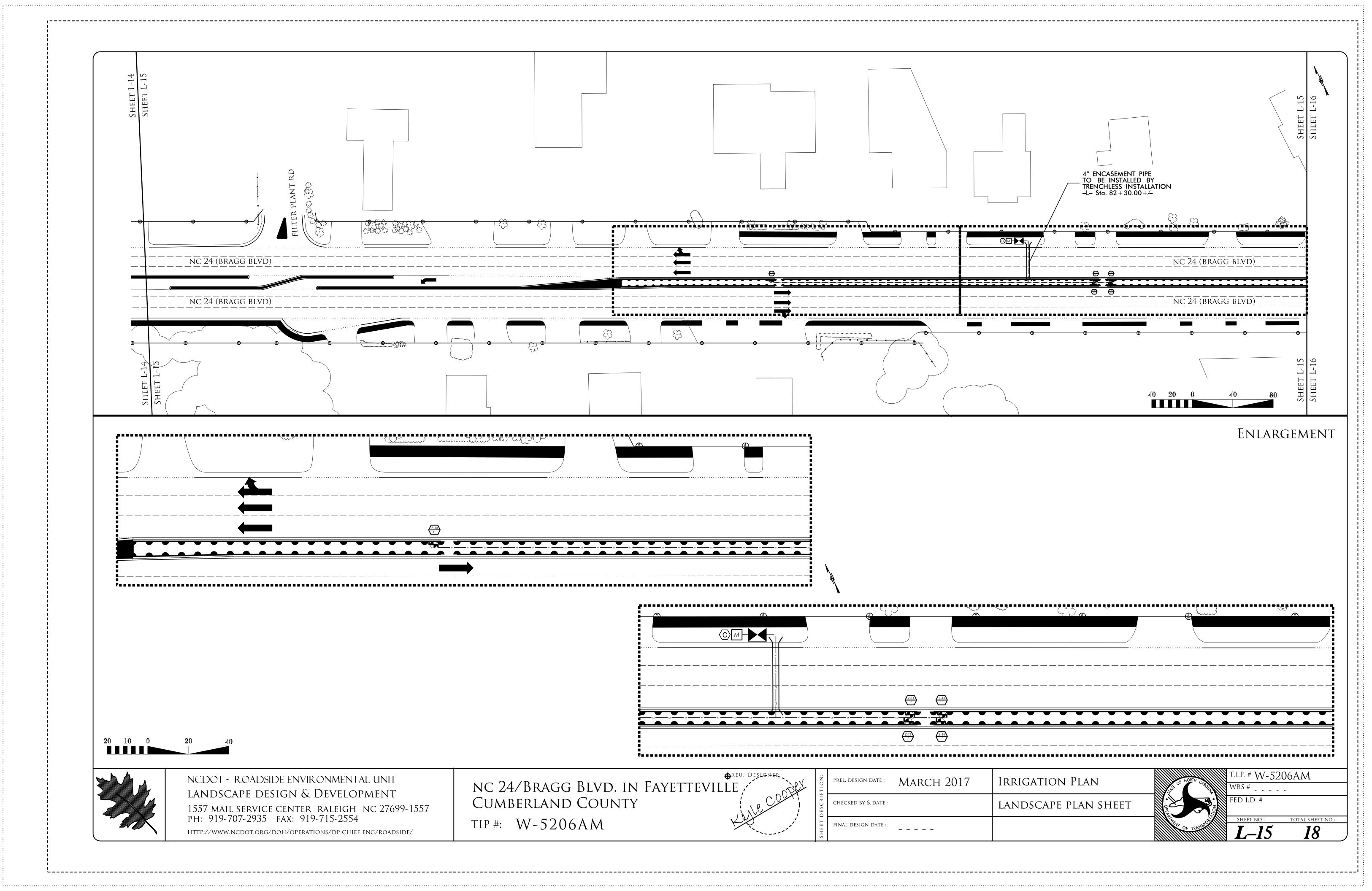
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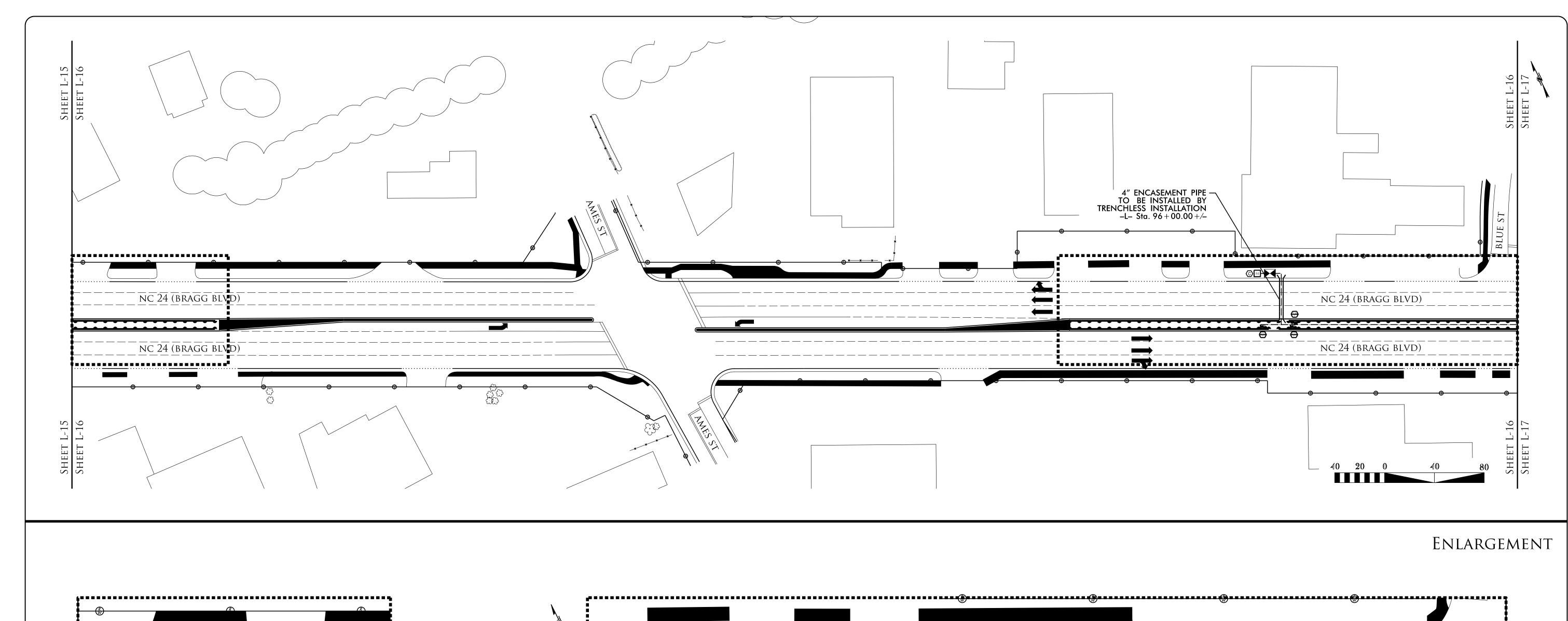
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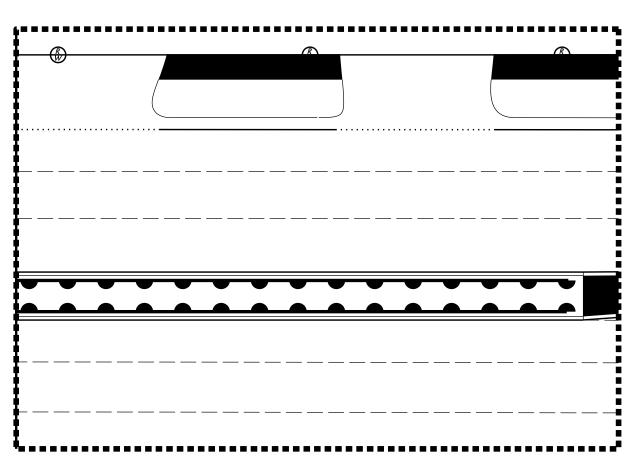


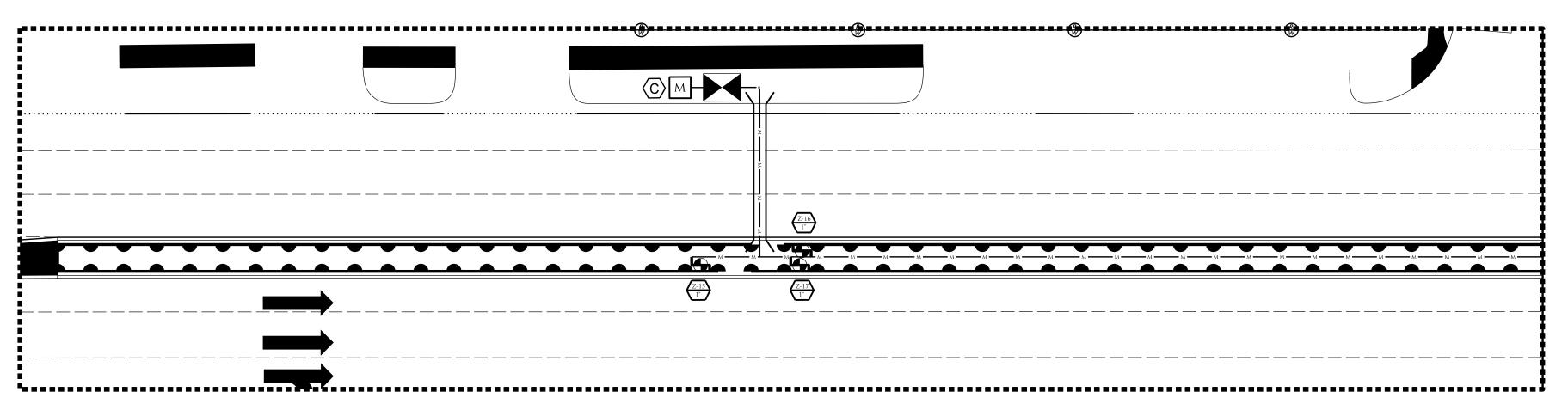
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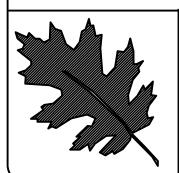




Irrigation Plan

LANDSCAPE PLAN SHEET

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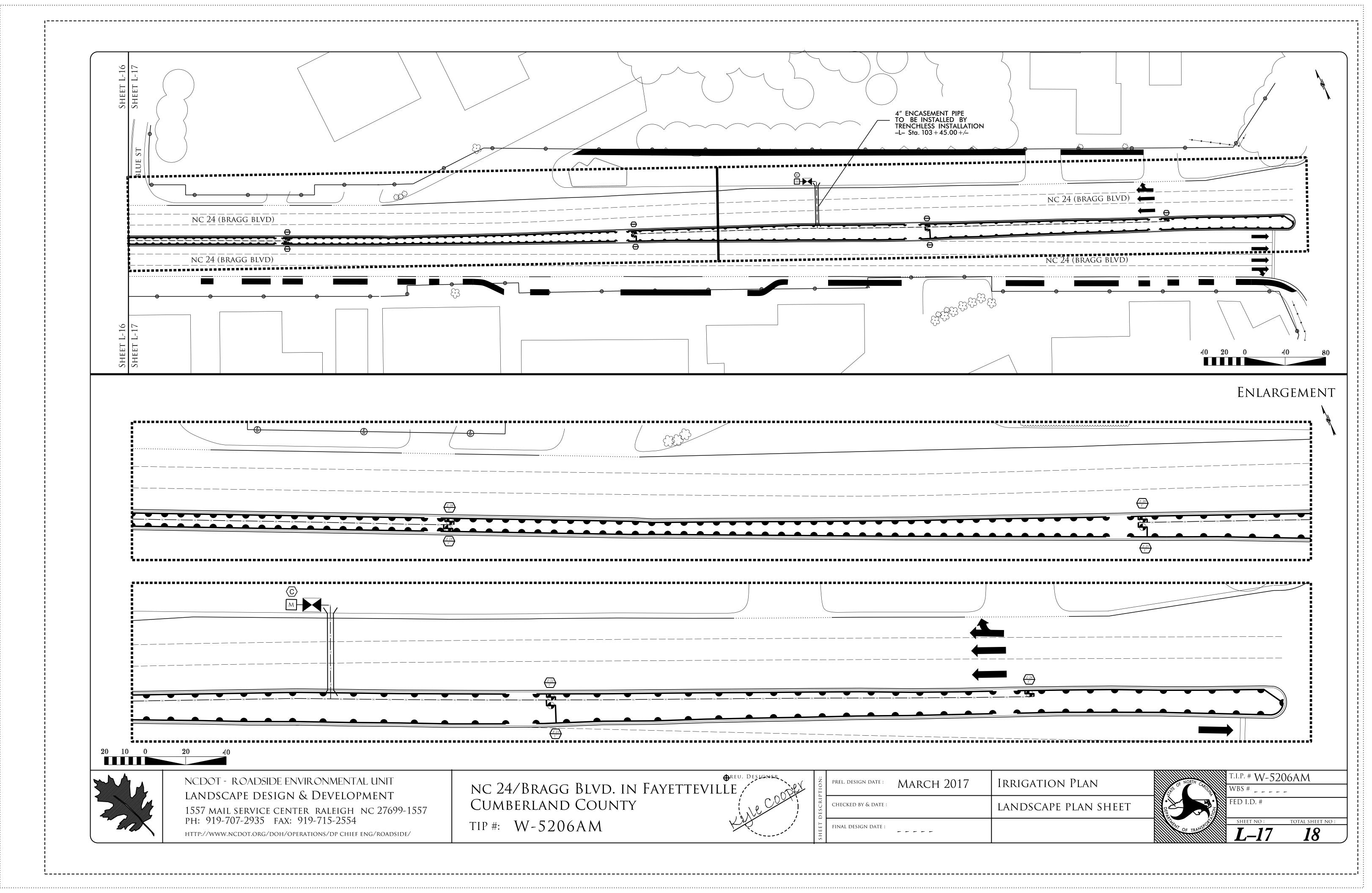
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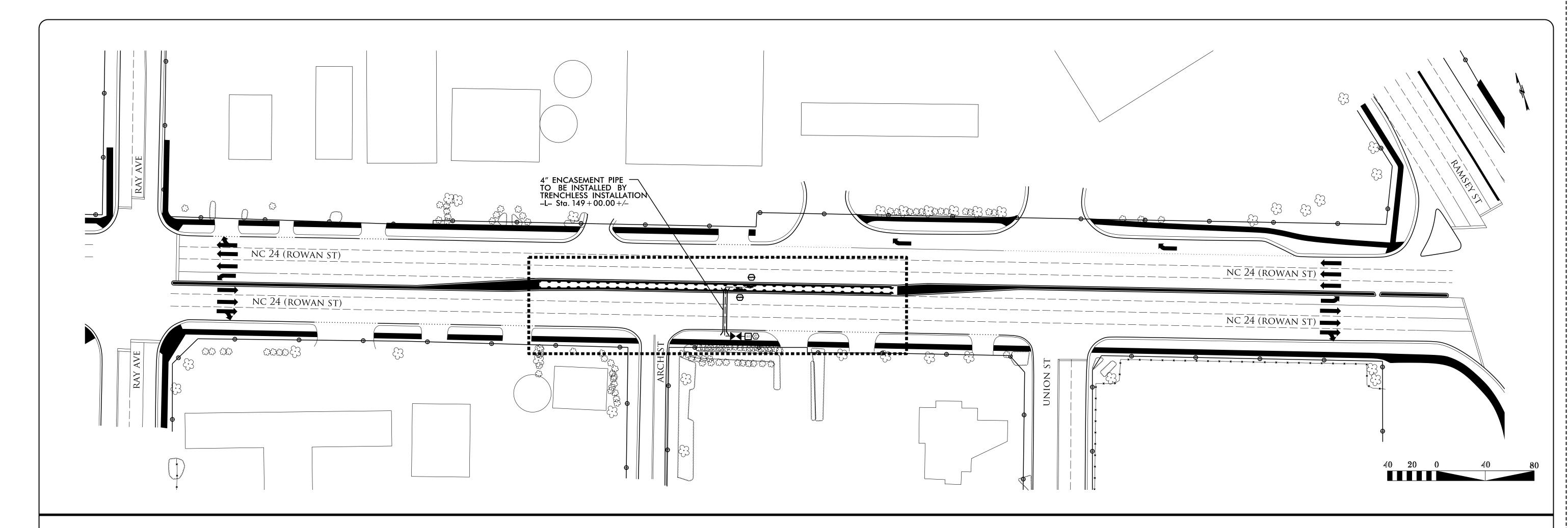
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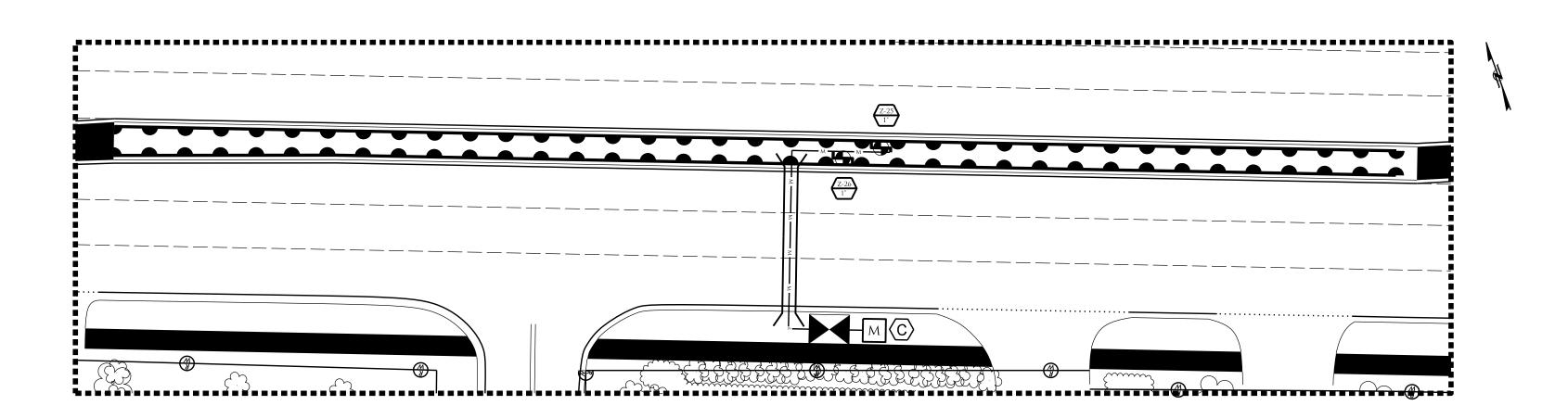
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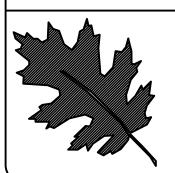




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