DRAWING INDEX

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L2.00	SITE PLAN NORTHEAST	
L2.11	SITE PLAN BLDG 4	•
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- 1 ACTUAL FIELD CONDITIONS MAY VARY FROM EXISTING CONDITIONS SITE SURVEY SHOWN ON PLAN CONTRACTOR SHALL FIELD VERIFY ACTUAL SITE CONDITIONS PRIOR TO COMMENCING WORK.
- 2. CONTRACTOR SHALL PROVIDE SUBMITTALS AND SAMPLES FOR ALL SITE FURNISHINGS AND MATERIALS.
- 3. CONTRACTOR SHALL PROVIDE MOCK UPS OF ALL PAVING MATERIALS AND PATTERNS. CUSTOM DESIGN WILL NEED TO BE DETAILED AND REVIEWED PRIOR TO INSTALLATION IN THE FIELD.
- THIS IS A DESIGN-BUILD PROCESS AND COLLABORATIVE EFFORT WITH THE FABRICATOR. STRUCTURAL ENGINEER. LANDSCAPE ARCHITECT. CONTRACTOR. AND OWNER AT MINIMUM. MULTIPLE SHOP DRAWINGS AND MATERIAL PRODUCT SUBMITTALS ARE ANTICIPATED DURING THIS PROCESS.
- 5. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE OFFICE OF STATE CONSTRUCTION, DEPARTMENT OF INSURANCE, NCDENR, AND ALL OTHER APPLICABLE LOCAL, STATE AND FEDERAL GUIDELINES.
- CONFLICTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING, COORDINATING AND PAYMENT FOR ALL NECESSARY LOCATING SERVICES INCLUDING INDEPENDENT LOCATING SERVICES. THE CONTRACTOR SHALL PROVIDE NOTICE OF EXCAVATION TO NOTIFICATION CENTER AND FACILITY OWNERS (PER NC STATUTE) NO LESS THAN 3 BUSINESS DAYS AND NO MORE THAN 12 WORKING DAYS PRIOR TO BEGINNING DEMOLITION, EXCAVATION OR ANY OTHER FORM OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS. NO EXCAVATION OR DEMOLITION SHALL BE STARTED WITHOUT ALL UTILITIES BEING LOCATED.
- ALL SUB-SURFACE UTILITIES IDENTIFIED ON THE CONSTRUCTION DOCUMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATION BASED ON SURVEY INFORMATION GATHERED FROM FIELD INSPECTION AND/OR ANY OTHER APPLICABLE RECORD DRAWINGS WHICH MAY BE AVAILABLE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS. 9. EXISTING IMPROVEMENTS DAMAGED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COORDINATING PERMITS. INSPECTIONS, CERTIFICATIONS AND OTHER REQUIREMENTS WHICH MUST BE MET UNDER THIS CONTRACT.
- 11. THE CONTRACTOR SHALL MAINTAIN "AS-BUILT" DRAWINGS TO RECORD THE ACTUAL LOCATION OF ALL PIPING PRIOR TO CONCEALMENT, VALVE AND MANHOLE CHANGES, AND HARDSCAPE OR LANDSCAPE CHANGES. DRAWINGS SHALL BE PROVIDED TO THE OWNER'S REPRESENTATIVE AT REGULAR INTERVALS, OR AS REQUESTED THROUGHOUT THE PROJECT FOR RECORD KEEPING.
- 12. IF DEPARTURES FROM THE PROJECT DRAWINGS OR SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THERE OF SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW. NO DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE OWNER'S REPRESENTATIVE.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION OF ANY EXISTING UTILITY LINES REQUIRED TO COMPLETE ANY PORTION OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE COORDINATION AND COSTS OF THE RELOCATION AND ASSOCIATED WORK. 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE PREMISES FREE FROM
- ACCUMULATIONS OF WASTE MATERIALS AND RUBBISH CAUSED BY THE CONTRACTOR. ALL DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE ON A DAILY BASIS. 15. THE LANDSCAPE ARCHITECT AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS
- AND/OR METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS. 16. ROADWAYS (TEMPORARY OR PERMANENT) MUST BE CAPABLE OF SUPPORTING FIRE FIGHTING APPARATUS (85,000 LBS) DURING ALL PHASES OF CONSTRUCTION ONCE VERTICAL CONSTRUCTION
- HAS BEGUN. 17. FINE GRADING COORDINATED AND PROVIDED BY CIVIL ENGINEER



Wallbrook Roadway Improvements **APPROVED**

Date: November 14, 2023

Weredith Inber

Town of Rolesville Planning Department

GENERAL NOTES

GENERAL NOTES:

- 6. EXISTING SURVEY INFORMATION INCLUDING TOPOGRAPHIC INFORMATION PROVIDED BY ARK CONSULTING GROUP PLLC UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF ANY WORK. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES OR
- SHALL BE RESTORED OR REPLACED TO ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.

Rolesville Plannina

SDP-23-05 & CID-23-01 / Publix at Wallbrook &

SITE LAYOUT PLAN:

- 1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND COORDINATES AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT PRIOR TO ANY CONSTRUCTION.
- 2. ALL DIMENSIONS AND COORDINATES ARE GIVEN IN DECIMAL FEET UNLESS OTHERWISE NOTED.
- 3. THE CONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
- 4. ALL WRITTEN DIMENSIONS SHALL PREVAIL. DO NOT SCALE FROM DRAWINGS.
- 5. ALL UTILITIES WITH SURFACE ACCESS SHALL BE LOCATED WITHIN THE PAVING PATTERN AND SHALL BE COORDINATED WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. REFER TO LAYOUT DRAWINGS
- 6. ALL SIDEWALKS WITHIN THE RIGHT-OF-WAY SHALL BE LAID OUT PER THE CIVIL ENGINEER.
- 7. CURBS ARE DIMENSIONED PER THE CIVIL ENGINEER.
- 8. ALL ANGLES 90 DEGREES UNLESS OTHERWISE NOTED.
- 9. ALIGN ALL JOINTS, CORNERS AND EDGES AS SHOWN.
- 10. FINAL LAYOUTS TO BE APPROVED BY LANDSCAPE ARCHITECT.
- 11. CONTRACTOR SHALL REFER TO AND COORDINATE WITH ARCHITECTURAL, STRUCTURAL, AND MEP DRAWINGS AT ALL TIMES PRIOR TO AND DURING CONSTRUCTION.
- 12. ALL CURB TAPERS ARE PER THE CIVIL ENGINEER.
- 13. WHERE NEW SIDEWALK ADJOINS EXISTING WALK, PROVIDE EXPANSION JOINT BY DRILLING INTO THE FACE OF THE EXISTING WALK FOR PLACEMENT OF DOWELS. TIE NEW SIDEWALKS INTO NEAREST EXISTING PAVEMENT JOINT; MATCH WIDTH OF EXISTING WALKWAY.
- 14. CONTRACTOR WILL BE PROVIDED WITH ELECTRONIC COPY OF PLANS FOR ALL LAYOUT INFORMATION. CONTRACTOR SHALL COORDINATE ACAD FORMAT WITH OWNER'S REPRESENTATIVE.
- 15. REFERENCE ARCHITECTURAL DRAWINGS FOR BUILDING LAYOUT INFORMATION.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE CONSTRUCTION LAYDOWN AREA, PERIMETER FENCE, AND ASSOCIATED GATES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE REMOVAL OF THE CONSTRUCTION LAYDOWN AREA PERIMETER FENCE AND ASSOCIATED GATES AT THE COMPLETION OF THE PROJECT.
- 17. THE CONTRACTOR SHALL REFERENCE THE DESIGN PLANS FOR DIMENSIONS, JOINT LOCATIONS, AND INI AY SPECIFICATIONS NEAR BUILDINGS AND IN COURTYARDS, CONTRACTOR SHALL PROVIDE JOINTS IN WALKWAYS AND HARDSCAPE PER DETAILS OR AS INDICATED ON LANDSCAPE/HARDSCAPE PLAN SHEETS.
- 18. ALL DIMENSIONS ARE IN RADII TO OUTSIDE FACE OF BUILDINGS, TO CENTERLINES, AND/OR FACE OF CURB UNLESS OTHERWISE NOTED.
- 19. MAXIMUM RUNNING SLOPE FOR WALKING SURFACES CANNOT BE GREATER THAN 1:20 AND CROSS SLOPES CANNOT BE GREATER THAN 1:48.
- 20. SIGHT TRIANGLES NOTHING OVER 30" HIGH SHALL BE ALLOWED WITHIN THE SIGHT DISTANCE FRIANGLES. SEE CIVIL DRAWINGS FOR APPLICABLE SIGHT DISTANCE TRIANGLES. 21. THE SITE SHALL BE FULLY STABILIZED (85% COVERAGE) PRIOR TO ISSUANCE OF A BUILDING

SITE LIGHTING PLAN:

CERTIFICATE OF OCCUPANCY OR PROJECT APPROVAL

- PLAN IS FOR FIXTURE SELECTION AND LOCATION ONLY. ELECTRICAL CIRCUITRY DESIGN AND ENGINEERING BY OTHERS.
- 2. THE CONTRACTOR SHALL ENSURE THAT ALL NEW ELECTRICAL INSTALLATIONS ARE IN ACCORDANCE WITH THE MOST RECENT NATIONAL ELECTRIC CODE AND ALL OTHER APPLICABLE STATE AND LOCAL CODES AND REQUIREMENTS
- 3. THE CONTRACTOR SHALL COORDINATE NEW LIGHT POLE FOUNDATION INSTALLATIONS AND UNDERGROUND CONDUIT INSTALLATIONS WITH SCHEDULED PAVING AND SITE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL COMPLETED SITE IMPROVEMENTS IF DISTURBED FOR ADDITIONAL INSTALLATIONS.
- 4. THE CONTRACTOR SHALL VERIFY ELECTRICAL CIRCUITS AND ASSOCIATED CONNECTIONS OF EXTERIOR LIGHTING FIXTURES BEFORE DISCONNECTION AND/OR REINSTALLATION IN EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT. EXISTING CONNECTIONS NOT ASSOCIATED WITH THE SCHEDULED REMOVAL OF ANY EXISTING LIGHT FIXTURES OR POWER SERVICE SHALL BE MAINTAINED.
- 5. UNDERGROUND CONDUIT SHALL BE ROUTED TO AVOID DISTURBING EXISTING WALKS.
- 6. PHOTOMETRIC LIGHTING STUDY TO BE COMPLETED BY OTHERS.

PLANTING SOILS PLAN:

1. REFER TO SOILS PLANS SHEET L6.10 - L6.14 FOR PLANTING SOIL NOTES.

IRRIGATION PLAN:

1. REFER TO IRRIGATION PLANS SHEET IR1.11 FOR NOTES

PLANTING PLAN:

1. VERIFY ALL QUANTITIES AND REPORT ANY DISCREPANCIES OR INACCURACIES IN THE PLANS TO THE OWNER'S REPRESENTATIVE PRIOR TO PLANTING.

REVISIONS:

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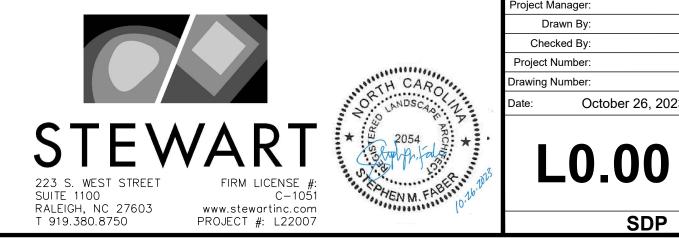
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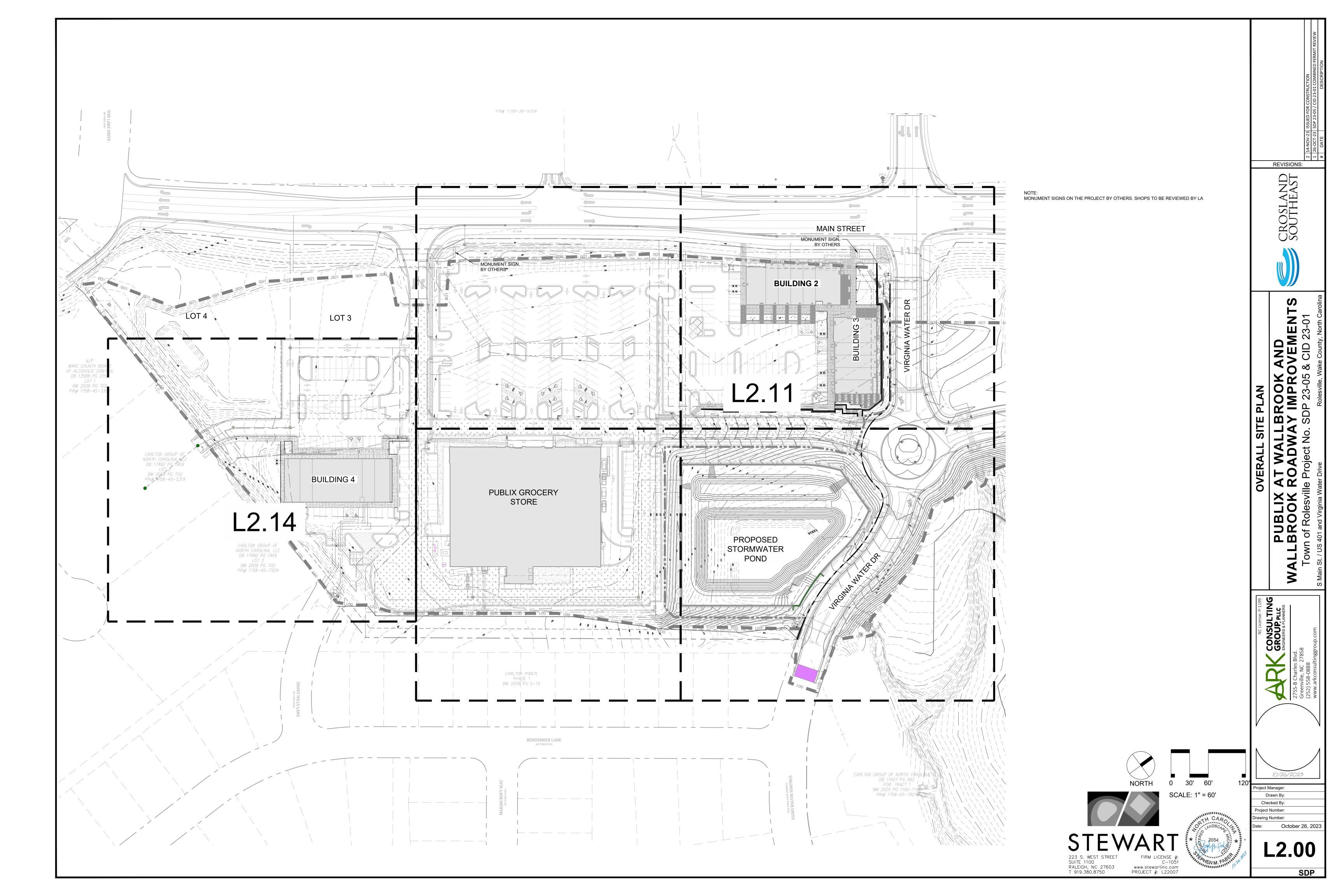
- 2. LANDSCAPE WORK SHALL INCLUDE THE FURNISHING, INSTALLATION, AND WARRANTY OF ALL PLANTING MATERIALS WITHIN THE PROJECT AREA.
- 3. THE LANDSCAPE CONTRACTOR SHALL ASCERTAIN THE THE LOCATION OF ALL EXISTING AND NEW UNDERGROUND UTILITIES PRIOR TO EXCAVATION FOR PLANTING. DAMAGES TO UTILITIES CAUSED BY THE LANDSCAPE OPERATION SHALL BE CORRECTED BY THE LANDSCAPE CONTRACTOR AT NO COST TO THE OWNER.
- 4. LANDSCAPING SHALL REMAIN CLEAR FROM ANY FIRE HYDRANTS ON THE SITE. 5. ALL STREET TREES PER CIVIL ENGINEER ASR AND SPR APPROVED PLANS.
- 6. MINIMUM CONTAINER SIZES FOR SHRUBS TO BE 7 GALLON. MINIMUM CONTAINER SIZES FOR GROUNDCOVER TO BE 1 GALLON.
- 7. TREE PROTECTION NOTE: TREE PROTECTION FENCING MUST BE IN PLACE PRIOR TO ANY DEMOLITION, LAND DISTURBANCE OR ISSUANCE OF A GRADING PERMIT AND SHALL INCLUDE WARNING SIGNS POSTED IN BOTH ENGLISH AND SPANISH, AS FOLLOWS: "NO TRESPASSING/TREE PROTECTION AREA/PROHIBIDO ENTRAR / ZONA PROTECTORA PARA LOS ÁRBOLES."
- 8. PROTECTION OF EXISTING VEGETATION: AT THE START OF GRADING INVOLVING THE LOWERING OF EXISTING GRADE AROUND A TREE OR STRIPPING OF TOPSOIL, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA AT THE SAME TIME AS OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE. NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA.
- 9. ROOT ZONE PROTECTION AREA: REFER TO CIVIL ENGINEER ASR AND SPR APPROVED PLANS FOR MORE INFORMATION. THE CRITICAL ROOT ZONE OF EACH PRESERVED TREE MUST BE WITHIN THE PROTECTIVE YARD. PER THE ORDINANCE, NO MORE THAN TWENTY-FIVE (25) PERCENT OF THE CRITICAL ROOT ZONE MAY BE DISTURBED. THE PREFERRED METHOD IS TO RESTRICT ACCESS BY INSTALLING A BARRIER TO KEEP MATERIALS, PEOPLE, OR EQUIPMENT OUT OF THE CRITICAL ROOT ZONE. BARRIER SHALL BE ACCOMPANIED BY TEMPORARY SIGNS LABELING THE ROOT ZONE.
- 10. SEED BED PREPARATION: ALL AREAS TO BE SEEDED ARE TO RECEIVE PLANTING SOIL AS INDICATED ON THE SOILS PLAN SHEETS AND IN ACCORDANCE WITH THE SPECIFICATIONS. ALL DEBRIS, ROCKS, ETC. LARGER THAN 1/2" ARE TO BE REMOVED. ALL LARGE CONCENTRATIONS OF GRAVEL & DEBRIS REGARDLESS OF SIZE ARE TO BE REMOVED PRIOR TO SEEDING OR PLANTING
- 11. ALL PLANT BED AREAS ARE TO RECEIVE PLANTING SOIL AS INDICATED ON THE SOILS PLAN SHEETS AND IN ACCORDANCE WITH SPECIFICATIONS. SEE PLANTING DETAILS SHEET (LG7.90) FOR ADDITIONAL SPECIFICATIONS.

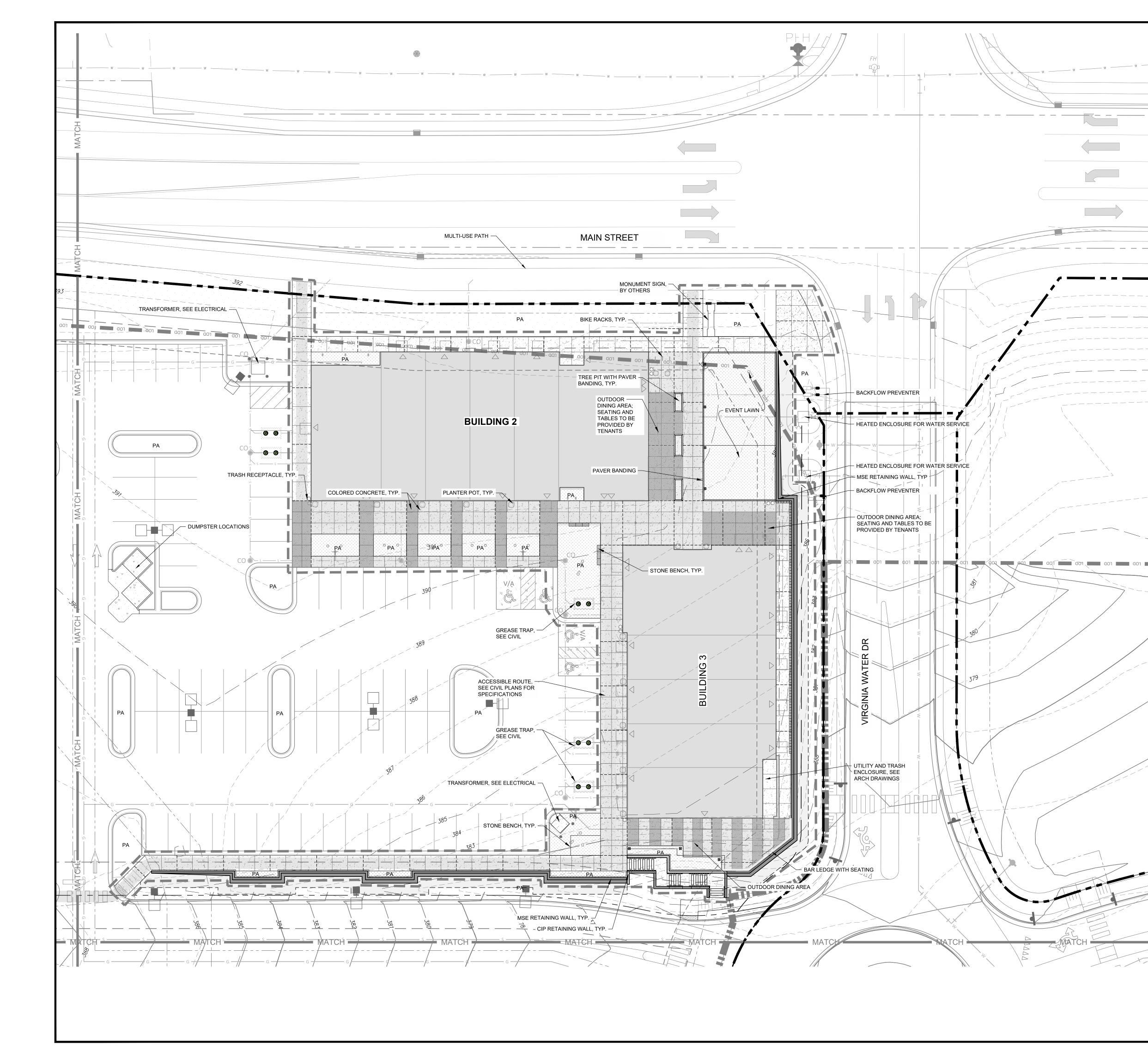
12. SCARIFY PLANT PIT WALLS. CONSULT LANDSCAPE ARCHITECT FOR ALTERNATE COMPLIANCE.

- 13. SHREDDED HARDWOOD MULCH 3" DEEP EXCEPT AT CROWN OF PLANT UNLESS OTHERWISE NOTED. FLARE AT CROWN SHOULD BE REVEALED. BACKFILL CONSISTS OF THOROUGHLY BROKEN UP NATIVE SOIL.PIECES SHOULD BE NO LARGER THAN WHAT PASSES THROUGH A ONE INCH SCREEN. IF ADDITIONAL SOIL IS REQUIRED FOR BACKFILL DUE TO DETRIMENTAL SUBSOIL DRAINAGE CONDITIONS. USE SOIL SIMILAR TO EXISTING NATIVE SOIL. ADDITIONAL SOIL TO BE APPROVED BY LANDSCAPE ARCHITECT. MAXIMUM SAUCER HEIGHT IS 6 INCHES.
- 14. FOR B&B PLANTS, NATURAL FIBER BURLAP SHOULD BE TURNED DOWN BY 1/3 TOTAL HEIGHT OF ROOT BALL. PLASTIC FIBER BURLAP AND WIRE BASKETS SHOULD BE REMOVED TO 2/3'S OF TOTAL HEIGHT OF ROOT BALL.
- 15. CONTRACTOR IS RESPONSIBLE FOR KEEPING THE TREE UPRIGHT AND PLUMB THROUGHOUT THE WARRANTY PERIOD. IF STABILIZATION IS NECESSARY SEE STAKING IN TREE DETAIL, ORANGE FLAGGING TAPE SHOULD BE ATTACHED TO SUPPORT WIRE. STAKING SHOULD BE REMOVED BY CONTRACTOR AT END OF ONE YEAR WARRANTY PERIOD OR AS DIRECTED BY GROUNDS MANAGEMENT.
- 16. USE STANDARD "GATOR" BAGS FOR WATERING TREES IN AREAS NOT UNDER IRRIGATION. INCORPORATE TERRA-SORB (OR EQUAL) AS PER MANUFACTURERS RECOMMENDATIONS, FOR AREAS NOT UNDER IRRIGATION. 17. USE "BIO-BARRIER" OR EQUIVALENT ACCORDING TO MANUFACTURER'S RECOMMENDATION FOR TREES THAT WILL BE
- PLANTED WITHIN 10' OF PAVEMENT 18. LANDSCAPING/C.O. STANDARDS NOTE: ALL LANDSCAPING MUST BE IN PLACE PRIOR TO REQUEST FOR A CERTIFICATE OF
- 19. DO NOT STAKE TREES EXCEPT WHERE SPECIFIED BY LANDSCAPE ARCHITECT. STAKING IS REQUIRED FOR TREES PLANTED ON SLOPES OR AREA EXPOSED TO HIGH WINDS.
- 20 WHERE SEVERAL TREES WILL BE PLANTED CLOSE TOGETHER SUCH THAT THEY WILL LIKELY SHARE ROOT SPACE THE IN SOIL AMENDMENTS TO A DEPTH OF 4-6" OVER THE ENTIRE AREA OR AS REQUIRED BY THE PROJECT SPECIFICATIONS.
- 21. FOR CONTAINER GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER.
- 22. FOR FIELD GROWN TREES, CUT BURLAP, ROPE AND WIRE BASKET AWAY FROM TOP AND SIDES OF ROOT BALL. 23. THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
- 24. THE PLANTING PROCESS IS SIMILAR FOR DECIDUOUS AND EVERGREEN TREES.
- 25. DO NOT WRAP TRUNK; MARK NORTH SIDE OF TREE IN THE NURSERY AND LOCATE TO THE NORTH IN THE FIELD.
- 26. WIDTH OF PLANTING HOLE IS 3X ROOT BALL AT THE SURFACE, SLOPING TO 2X THE ROOT BALL DIAMETER AT THE DEPTH OF THE ROOT BALL.
- 27. UNLESS OTHERWISE INDICATED ON THE PLANTING SOILS PLAN, BEFORE PLANTING, ADD 3-4" OF WELL COMPOSTED LEAVES, RECYCLED YARD WASTE OR OTHER COMPOST AND TILL INTO TOP 6" OF PREPARED SOIL. ADD COMPOST AT 20-35% BY VOLUME TO BACKFILL.
- 28. <u>PERFORM PERCOLATION TEST FOR EACH TREE PIT</u> TO CONFIRM THAT WATER DRAINS OUT OF THE SOIL. PROVIDE GRAVEL SUMP FILTER FABRIC & VENT PIPE IF DRAINAGE DOES NOT OCCUR WITHIN 24 HOURS. INCLUDE ALL SUMPS IN BASE BID. SHOULD SUMPS NOT BE NECESSARY AFTER PERCOLATION TEST, PROVIDE CHANGE ORDER DEDUCT TO
- 29. IF PLANTING HOLES ARE DUG WITH A LARGE AUGER BREAKING DOWN THE SIDES WITH A SHOVEL CAN ELIMINATE GLAZING AND CREATE THE PREFERRED SLOPING SIDE.
- 30. TREES SHALL HAVE SINGLE LEADERS UNLESS OTHERWISE SPECIFIED.
- 31. DO NOT PLACE MULCH IN CONTACT WITH TRUNK

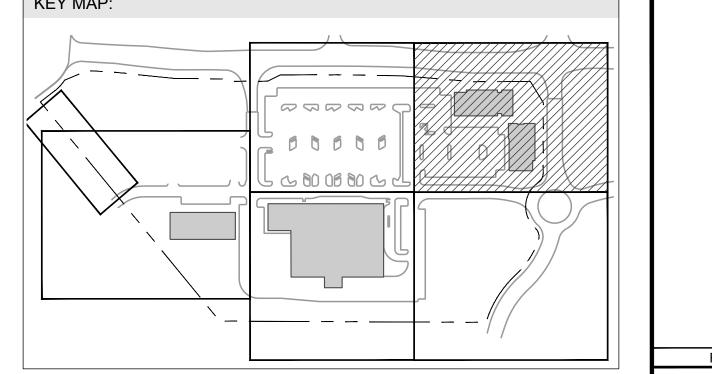
COMPLIANCE.









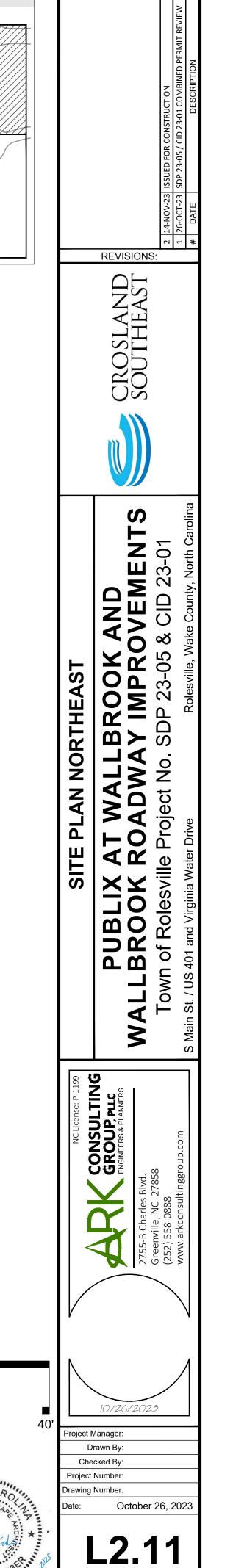


SITE LEGEND

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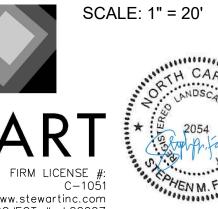
PROPERTY LINE / ROW LINE SETBACK LINE LIMIT OF WORK (HARDSCAPE) PROPOSED CONCRETE PAVEMENT PROPOSED COLORED CONCRETE PAVEMENT 1 PROPOSED COLORED CONCRETE PAVEMENT 2 PROPOSED PLANTING AREA PROPOSED DECORATIVE GRAVEL BUILDING FOOTPRINT

NOTE: MONUMENT SIGNS ON THE PROJECT BY OTHERS. SHOPS TO BE REVIEWED BY LA



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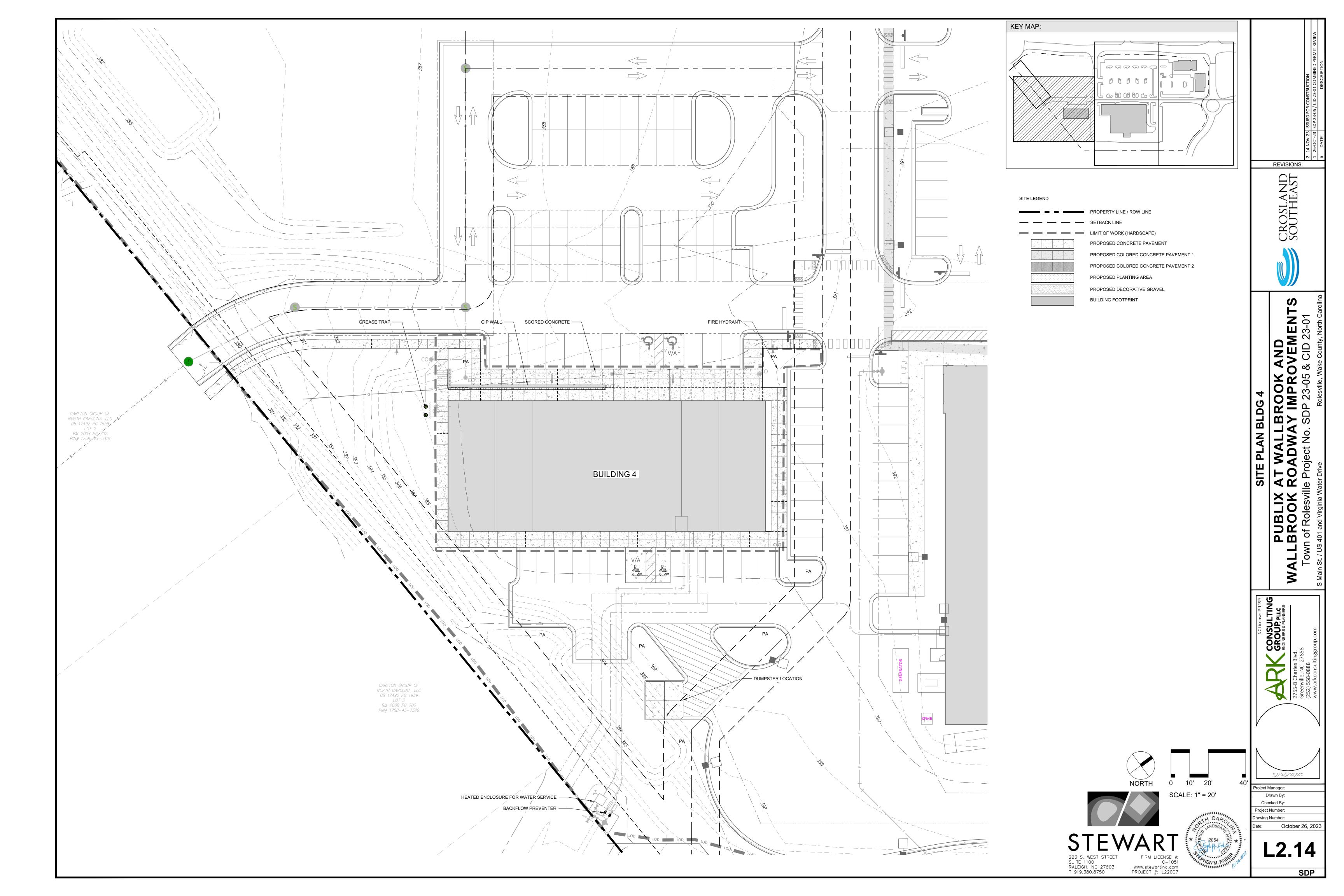




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NORTH

10' 20'



DRAIN	AGE SCHEDULE									
SYMBOL	DESCRIPTION	DETAIL	MATERIAL/COLOR	FINISH	SIZE	PRODUCT NAME/#	MANUFACTURER	CONTACT		
DR-101	TRENCH DRAIN	8/L3.91	LONGITUDINAL STAINLESS STEEL	STAINLESS STEE	L 4" GRATE	K 100; STAINLESS STEEL	ACO	866-303-6426		
DR-102	AREA DRAIN	2/L3.91	CAST IRON	BAKED ON OIL	6" DIA	BULLEYE 6" HEEL PROOF	IRON AGE	877.418.3568		
EDGIN	IG SCHEDULE	·			·					
SYMBOL	DESCRIPTION	DETAIL	SPEC SECTION COLOR	F	INISH	SIZE		PRODUCT NAME/#	MANUFACTURER	CONTACT
	EDGING - TYPE 1	7/L3.90	32 14 00 NATURAL ALUM		/ILL	SEE DETAIL		PERMASTRIP	PERMALOC	800.356.9660

MISCE	LLANEOUS SITE FEATUF	RES SCH	EDULE					
SYMBOL	DESCRIPTION	DETAIL	COLOR	FINISH	SIZE	PRODUCT NAME/#	MANUFACTURER	CONTACT
M-102	BIKE RACK (PURCHASED BY OWNER, INSTALLED BY CONTRACTOR)	3/L3.91	RED, YELLOW, GRAY	SILVER POWERED COAT	3" X 23" X 32"	KEY	LANDSCAPE FORM	800.430.6209
M-103	WIRE LATTICE STRUCTURE	6/L3.91	SILVER	STAINLESS STEEL	ТВD	GREENGUIDE SYSTEM	JAKOB ROPE SYSTEM	866.215.1421
M-104	SAWN TOP NATURAL STONE BENCH	6/L3.90	AUTUMN SKY (GRAY / TAN)	SAWN TOP & ROUGH SIDES	18"D X 36` L X 18" H	SAWN TOP BENCH	FISCHER STONE	815-541-1425; CONTRACTOR TO PROVIDE COLOR SAMPLE TO LA FOR REVIEW/APPROVAL
M-107	TRASH RECEPTACLE (PURCHASED BY OWNER, INSTALLED BY CONTRACTOR)	9/L3.91	DUSK; THERMALLY MODIFIED ASHE	POWDER COATED, INCLUDE THERMALLY MODIFIED WOOD ACCENT PANELS	20"X37"X17 GAL.	FGP LITTER	LANDSCAPE FORMS	800.430.6209
M-108	PLANTER POT (PURCHASED BY OWNER, INSTALLED BY CONTRACTOR)	7/L3.91	ASH WHITE	SANDBLAST	48"H X 32"D X 17" BASE	LARKSPUR LS-48	LANDSCAPE FORMS	800.430.6209

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	PAVEM	ENT SCHEDULE										
		CONCRETE										
	SYMBOL	DESCRIPTION	DETAIL	SPEC SECTION	COLOR	JOINT TYPE OR PATTERN	FINISH	SIZE (LENGTH X WIDTH X DEPTH)	PRODUCT NAME/#	MANUFACTURER	CONTACT	NOTES
[.]	P-201	PEDESTRIAN CONCRETE PAVING	1/L3.90	32 13 13	STANDARD GRAY	SEE PLAN	MEDIUM BROOM					CARBON CURE SHALL BE USED AS AN ADDITIVE. SEE SPECIFICATIONS
	P-202	PEDESTRIAN CONCRETE PAVING WITH INTEGRAL COLOR FINISH	1/L3.90	32 13 13	INTEGRAL COLOR: AUTUMN BEIGE	SEE PLAN	LIGHT BROOM FINISH		C235 - AUTUMN BEIGE	SIKACOLOR (-120 G GRANULAR INTEGRAL COLOR)	SIKA 201.933.8800	CONTRACTOR TO PROVIDE 2 ADDITIONAL COLOR SAMPLES. SEE SPECIFICATION
	P-203	PEDESTRIAN CONCRETE PAVING WITH INTEGRAL COLOR FINISH	1/L3.90	32 12 20	WINTER BEIGE	SEE PLAN	LIGHT BROOM FINISH		C16 WINTER BEIGE	SIKACOLOR (-120 G GRANULAR INTEGRAL COLOR)	SIKA 201.933.8800	CONTRACTOR TO PROVIDE 2 ADDITIONAL COLOR SAMPLES. SEE SPECIFICATION
		·	•	•	·	·	·	•	·	•	•	·
		UNIT PAVER										
	SYMBOL	DESCRIPTION	DETAIL	SPEC SECTION	COLOR	JOINT TYPE OR PATTERN	FINISH	SIZE (LENGTH X WIDTH X DEPTH)	PRODUCT NAME/#	MANUFACTURER	CONTACT	NOTES
30 30<	P-302	STANDARD CONCRETE PAVER BANDING	2/L3.90	32 14 00	M2343	SAILOR COURSE	SLATEFACE	17 5/8" X 5 7/8" X 2"	PREST PAVER	HANOVER	800.426.4242	CONTRACTOR TO PROVIDE COLOR SAMPLE TO LA FOR REVIEW/APPROVAL
		·		·	· ·	· ·	·		· · ·	•	·	
		STONE										
	SYMBOL	DESCRIPTION	DETAIL	SPEC SECTION	COLOR	JOINT TYPE OR PATTERN	FINISH	SIZE (LENGTH X WIDTH X DEPTH)	PRODUCT NAME/#	MANUFACTURER	CONTACT	NOTES
	P-401	DECOMPOSED GRANITE WITH BINDER	4/L3.90	32 12 20	MISTY GRAY MARBLE	N/A	STABILIZED PATHWAY WITH ORGANIC LOCK BINDER	AGGREGATE SIZE PER MANUFACTURER	STABILIZED PATHWAY MIX: MISTY GRAY MARBLE SPECIALY AGGREGATE	KAFKA GRANITE	800-852-7415	CONTRACTOR TO PROVIDE COLOR SAMPLE TO LA FOR REVIEW/APPROVAL

SYMBOL	S SCHEDULE DESCRIPTION	DETAIL	SPEC SECTION	COLOR	FINISH
W-101	CIP RETAINING WALL WITH GUARDRAIL	2/L3.92	03 3000	STANDARD GRAY	BOARD FORM
W-104	MSE RETAINING WALL WITH GUARDRAIL	4/L3.92	03 3000	STANDARD GRAY	
W-105	BAR LEDGE ON RAILING	3/L3.92	03 3000	POWDER COAT FINISH: BLACK (MATCH FENCING)	POWDER CO

/MBOL	DESCRIPTION	DETAIL	SPEC SECTION	COLOR	FINISH	SIZE	NOTES
R-101	ALUMINUM PIPE PICKET GUARDRAIL	2/L3.92	05 73 01	BLACK	ALUMINUM	36" HEIGHT	CONTRACTOR TO PROVIDE SHOP DRAWING TO LA FOR REVIEW/APPROVAL
R-102	ALUMINUM PIPE HANDRAIL (WALL MOUNT)	3/L3.94	05 73 01	BLACK	ALUMINUM	36" HEIGHT	CONTRACTOR TO PROVIDE SHOP DRAWING TO LA FOR REVIEW/APPROVAL
-103	ALUMINUM PIPE HANDRAIL (GROUND MOUNT)	3/L3.94	05 73 01	BLACK	ALUMINUM	36" HEIGHT	CONTRACTOR TO PROVIDE SHOP DRAWING TO LA FOR REVIEW/APPROVAL

STEP	S SCHEDULE							
SYMBOL	DESCRIPTION		DETAIL		RISER/TREAD		NOTE	S
S-101	CAST IN PLACE CONCRI	ETE STAIRS	2/L3.94		RISER 6"; TREAD 12	'n		RACTOR TO VARIFY RISER
ROC		DETAIL		COLOR		SIZE		
K-102	SMOOTH RIVER ROCK				O BROWN BLEND	2"-5" DIAMETER; SMOOTH STO	DNE	

	BENCHES								
SYMBOL	DESCRIPTION	QTY	DETAIL	COLOR	FINISH	SIZE	PRODUCT NAME/#	MANUFACTURER	CONTACT
F-101	TABLE (PURCHASED BY OWNER, INSTALLED BY CONTRACTOR)			DUSK	POWDER COAT	36" SQUARE	CATENA TABLE SQUARE	LANDSCAPE FORMS	LORI BROWN 269-337-1310
F-102	CHAIR (PURCHASED BY OWNER, INSTALLED BY CONTRACTOR)			DUSK	POWDER COAT	30" HEIGHT	CATENA CHAIR	LANDSCAPE FORMS	LORI BROWN 269-337-1310
F-103	LOUNGE CHAIR (PURCHASED BY OWNER, INSTALLED BY CONTRACTOR)			ORANGE	POWDER COAT	WITH ARMS; 33"H	PARC CENTRE LOUNGE	LANDSCAPE FORMS	LORI BROWN 269-337-1310

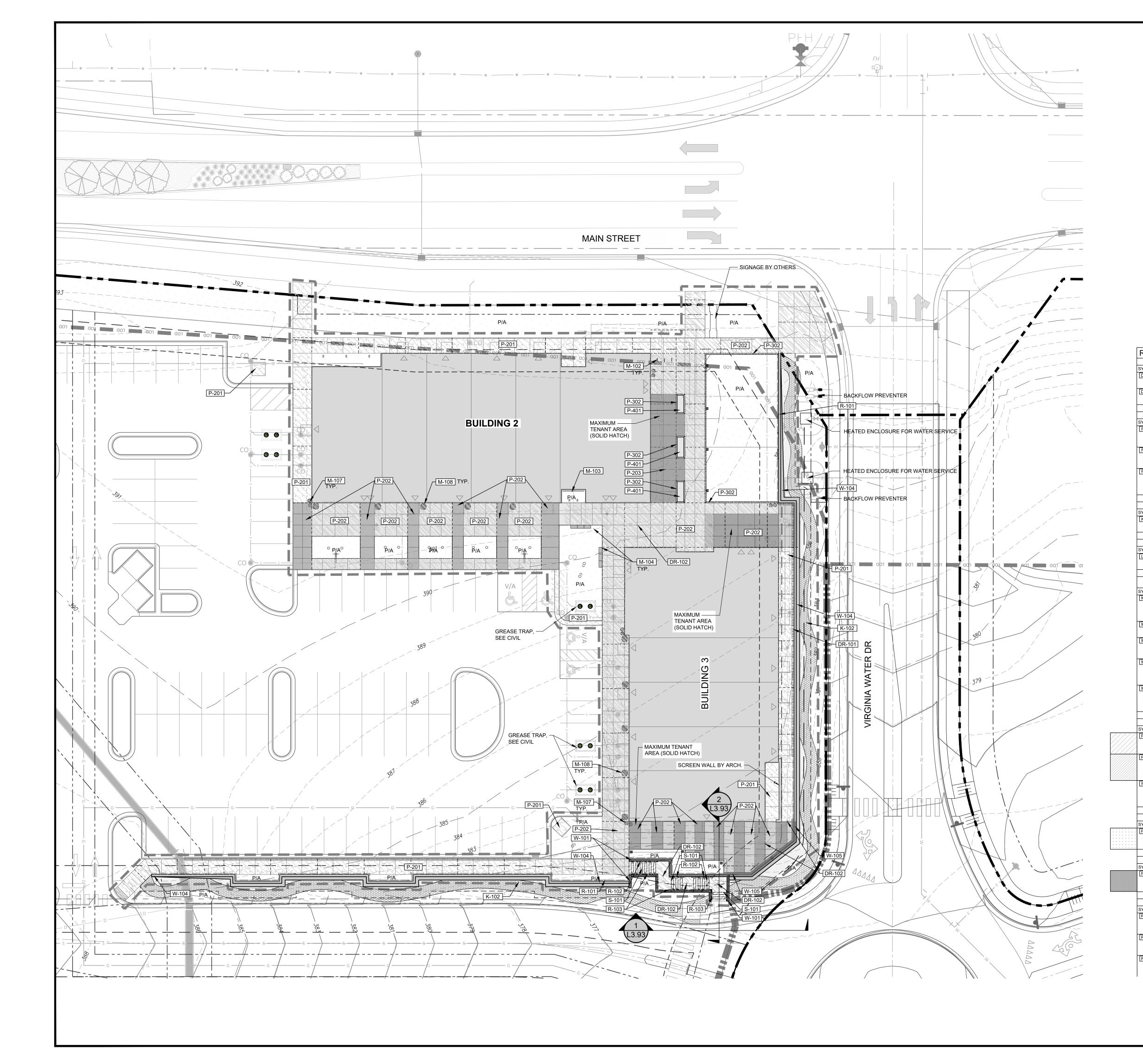


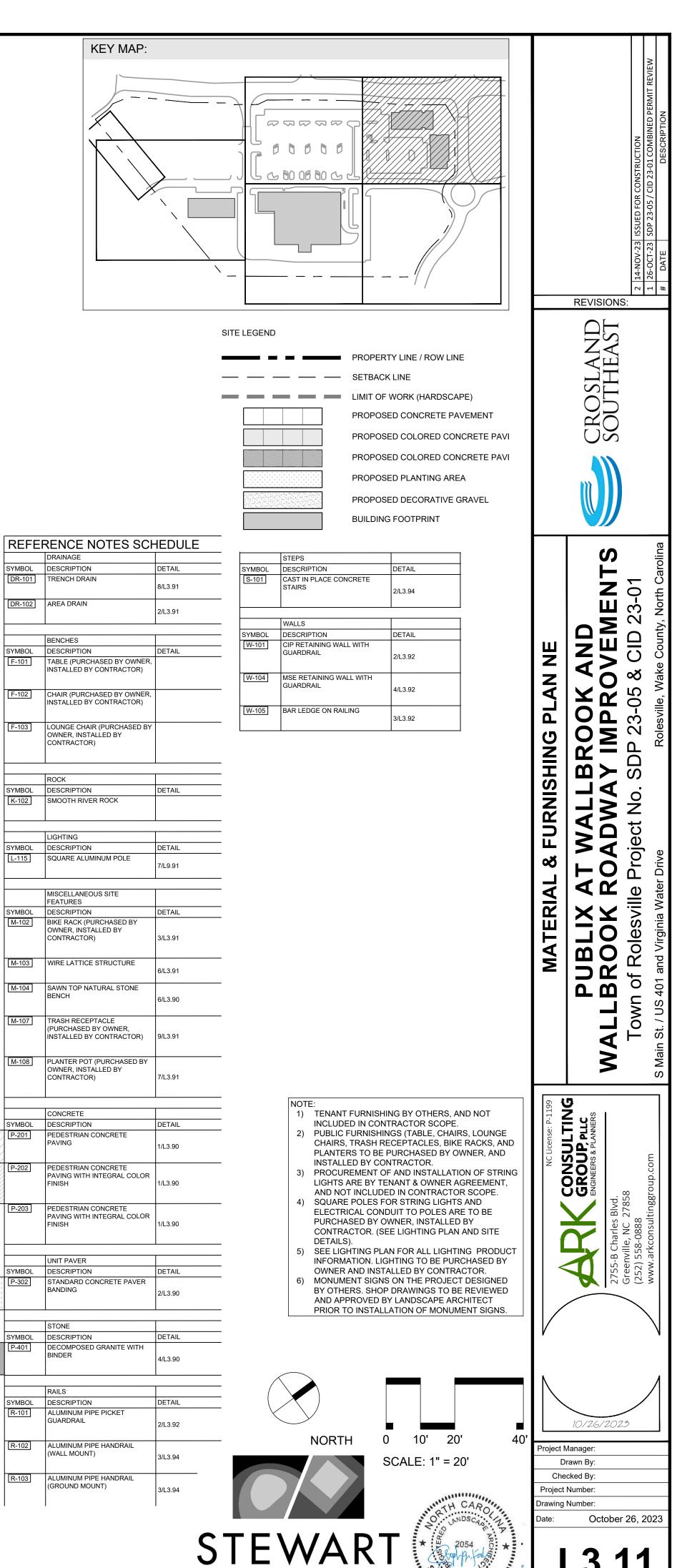
SER & TREAD RATIO AND NUMBER OF STEPS WITH ACTUAL SITE CONSTRUCTION

	CROSLAND SOUTHEAST	2 14-NOV-23 ISSUED FOR CONSTRUCTION	1 26-OCT-23 SDP 23-05 / CID 23-01 COMBINED PERMIT REVIEW # DATE DATE DESCRIPTION
MATERIAL & FURNISHING SCHEDULE	PUBLIX AT WALLBROOK AND WALLBROOK ROADWAY IMPROVEMENTS	Town of Rolesville Project No. SDP 23-05 & CID 23-01	S Main St. / US 401 and Virginia Water Drive Rolesville, Wake County, North Carolina
NC License: P-1199	2755-B Charles Blvd.	Greenville, NC 27858 (252) 558-0888	www.arkconsultinggroup.com
Che	rawn By: cked By: Number:		2023



AN ADDITIVE. SEE SPECIFICATIONS TIONAL COLOR SAMPLES. SEE SPECIFICATIONS FOR MOCK UP TIONAL COLOR SAMPLES. SEE SPECIFICATIONS FOR MOCK UP SAMPLE TO LA FOR REVIEW/APPROVAL





223 S. WEST STREET

RALEIGH, NC 27603

T 919.380.8750

SUITE 1100

FIRM LICENSE #

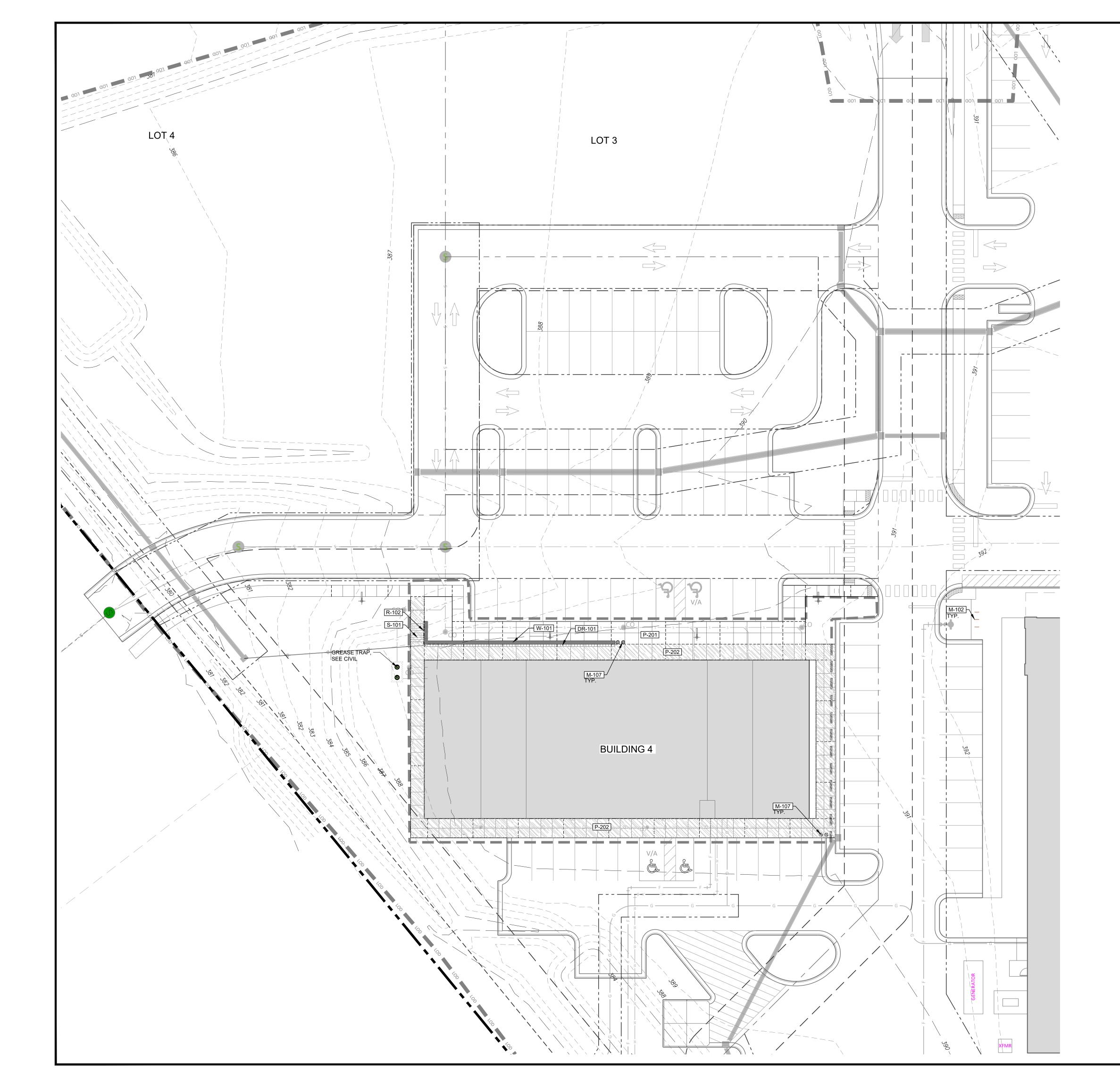
www.stewartinc.com

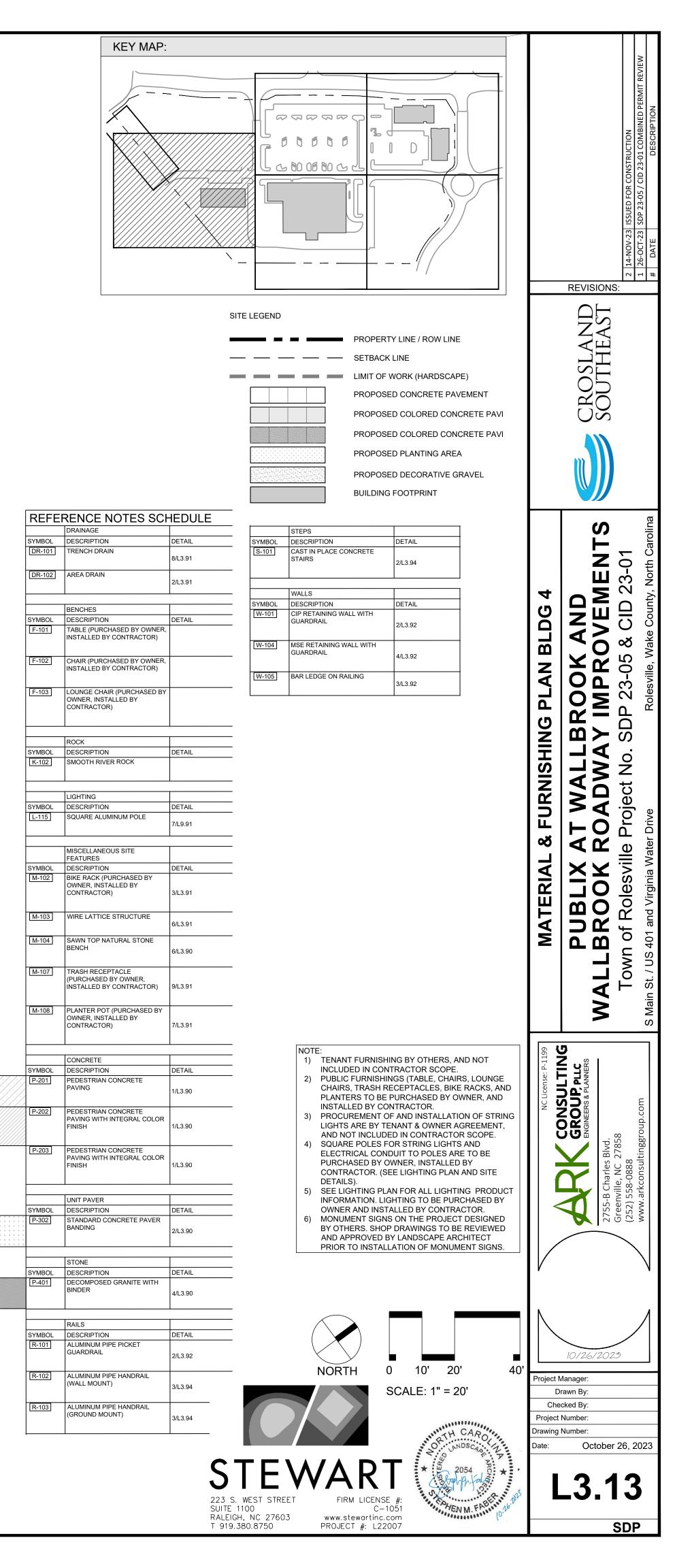
PROJECT #: L22007

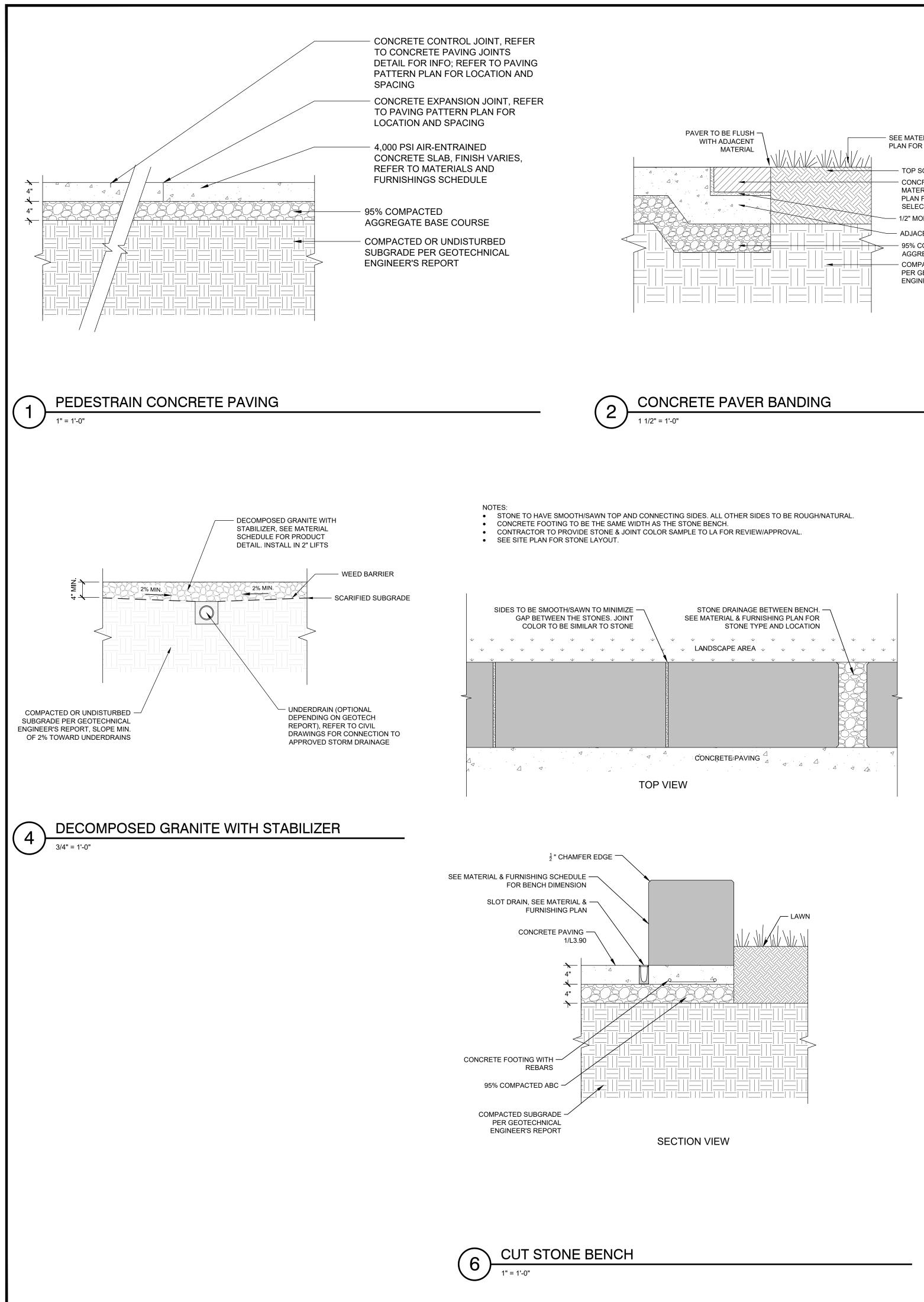
C-1051

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SDP



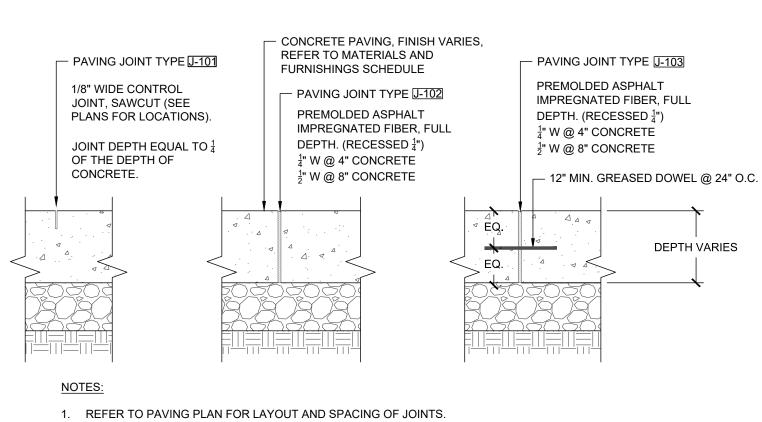




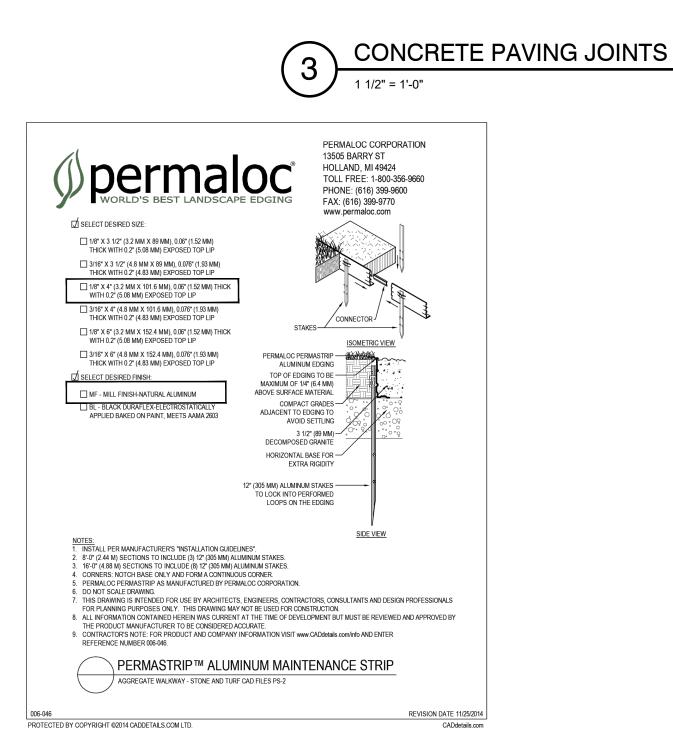
SEE MATERIAL & FURNISHING PLAN FOR ADJACENT MATERIAL

- TOP SOIL - CONCRETE PAVER, SEE MATERIAL & FURNISHING PLAN FOR PAVER SELECTION - 1/2" MORTAR BED

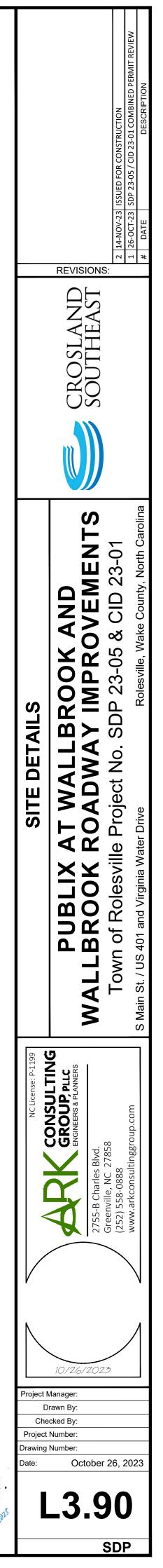
- ADJACENT PAVING VARIES 95% COMPACTED AGGREGATE BASE COURSE - COMPACTED SUBGRADE PER GEOTECHNICAL ENGINEER'S REPORT



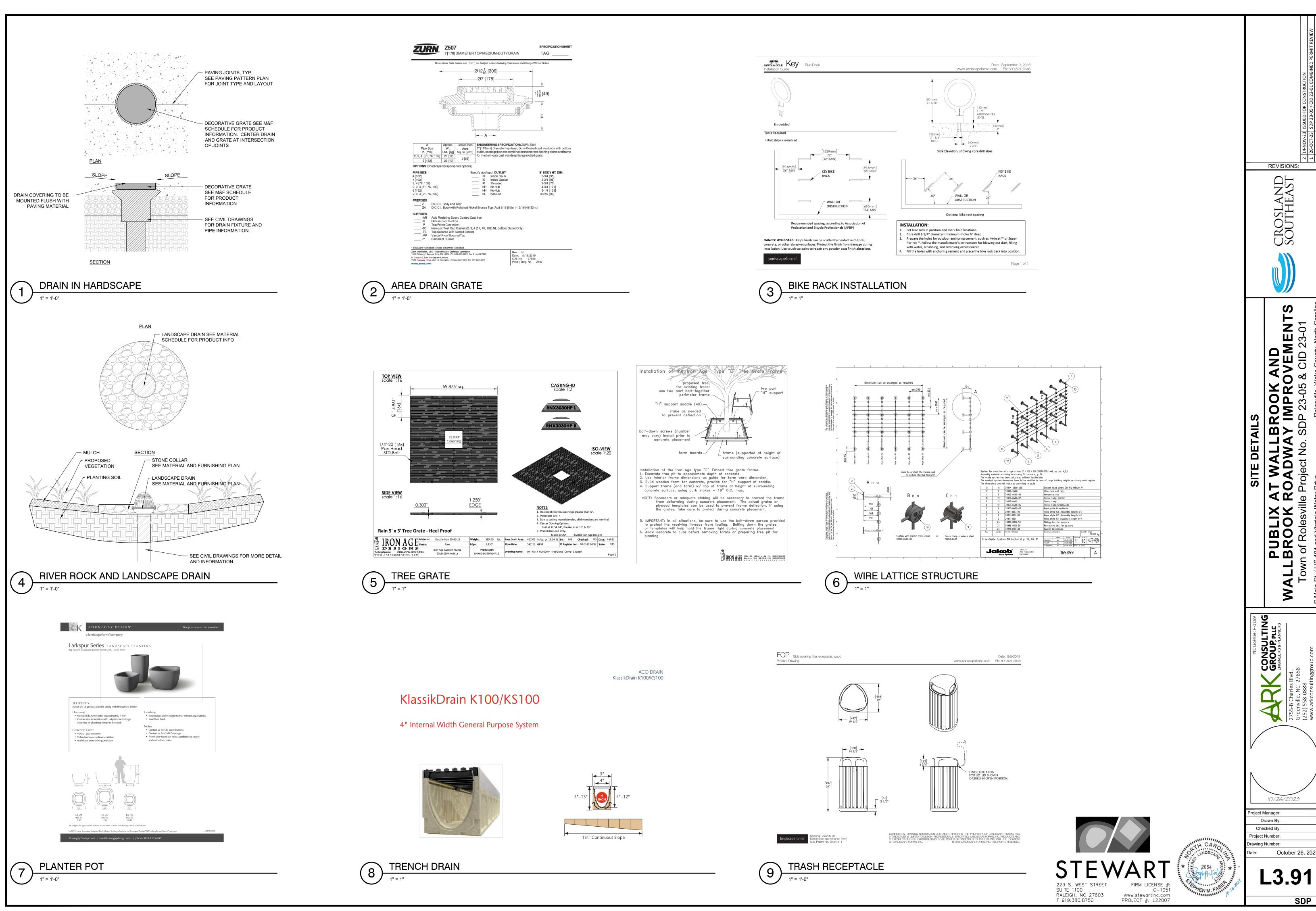
2. EXPANSION JOINTS SHALL OCCUR AT ALL AREAS WHERE PAVEMENT MEETS WALLS / VERTICAL SURFACE AND AT ALL COLD JOINTS.

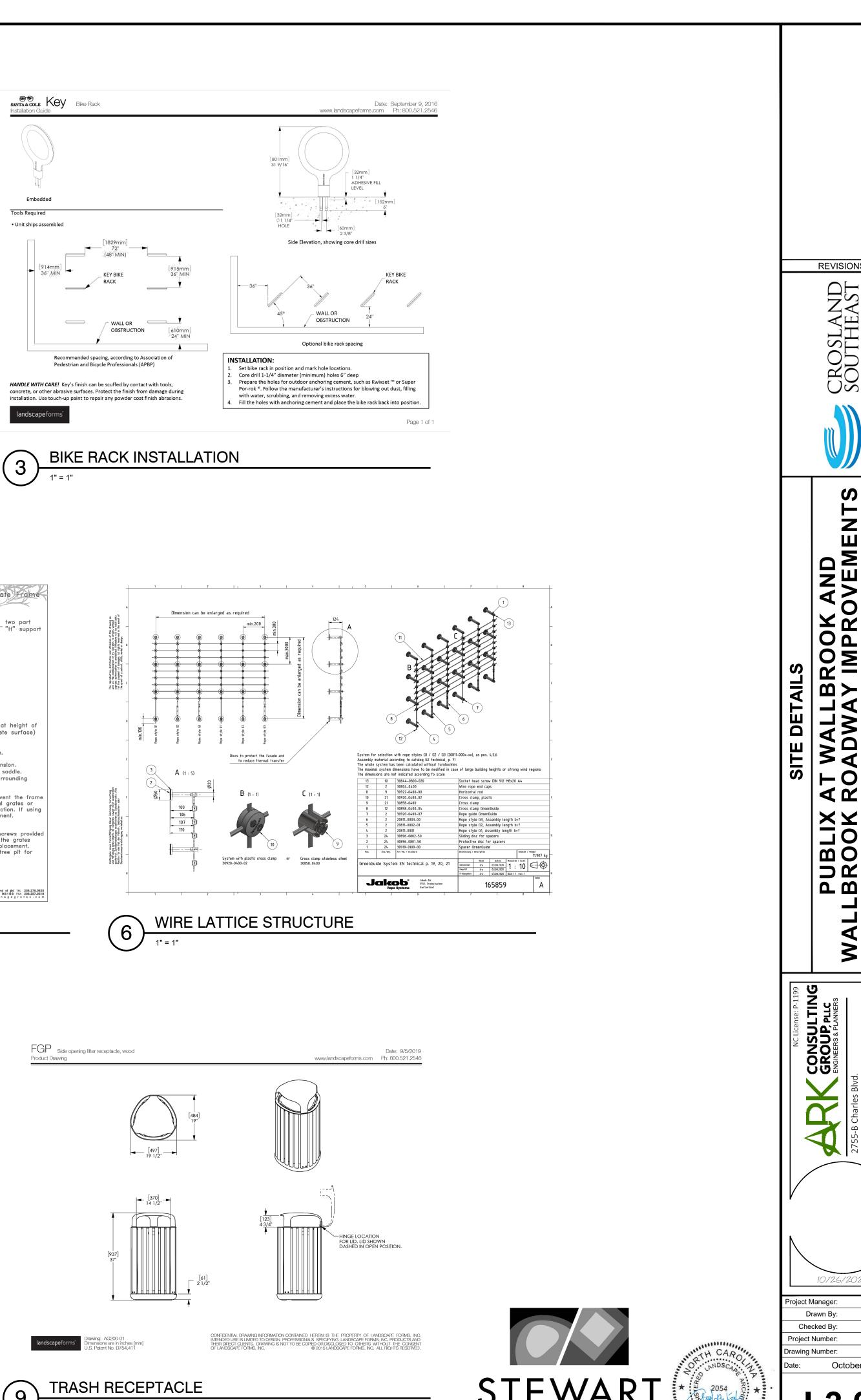






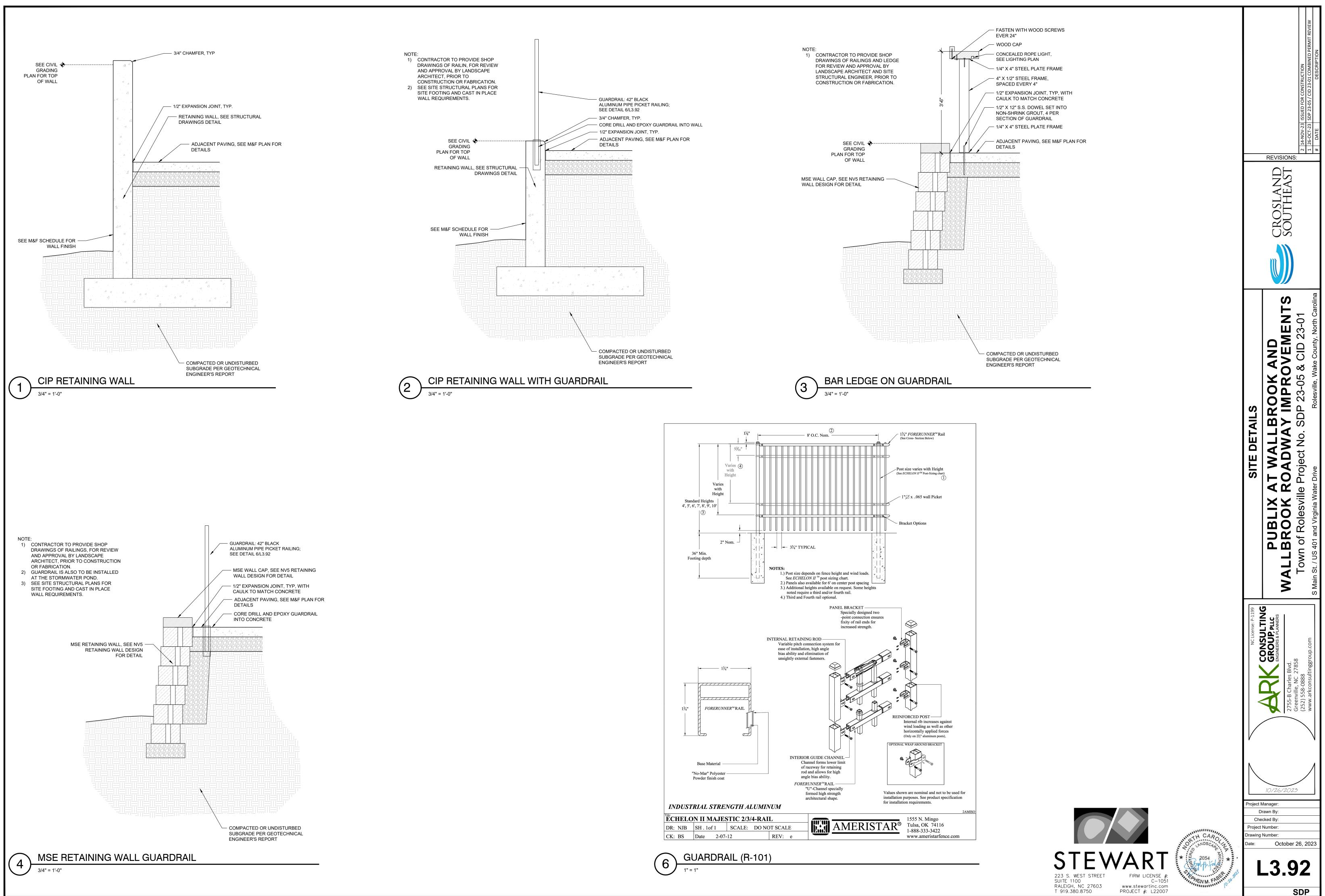


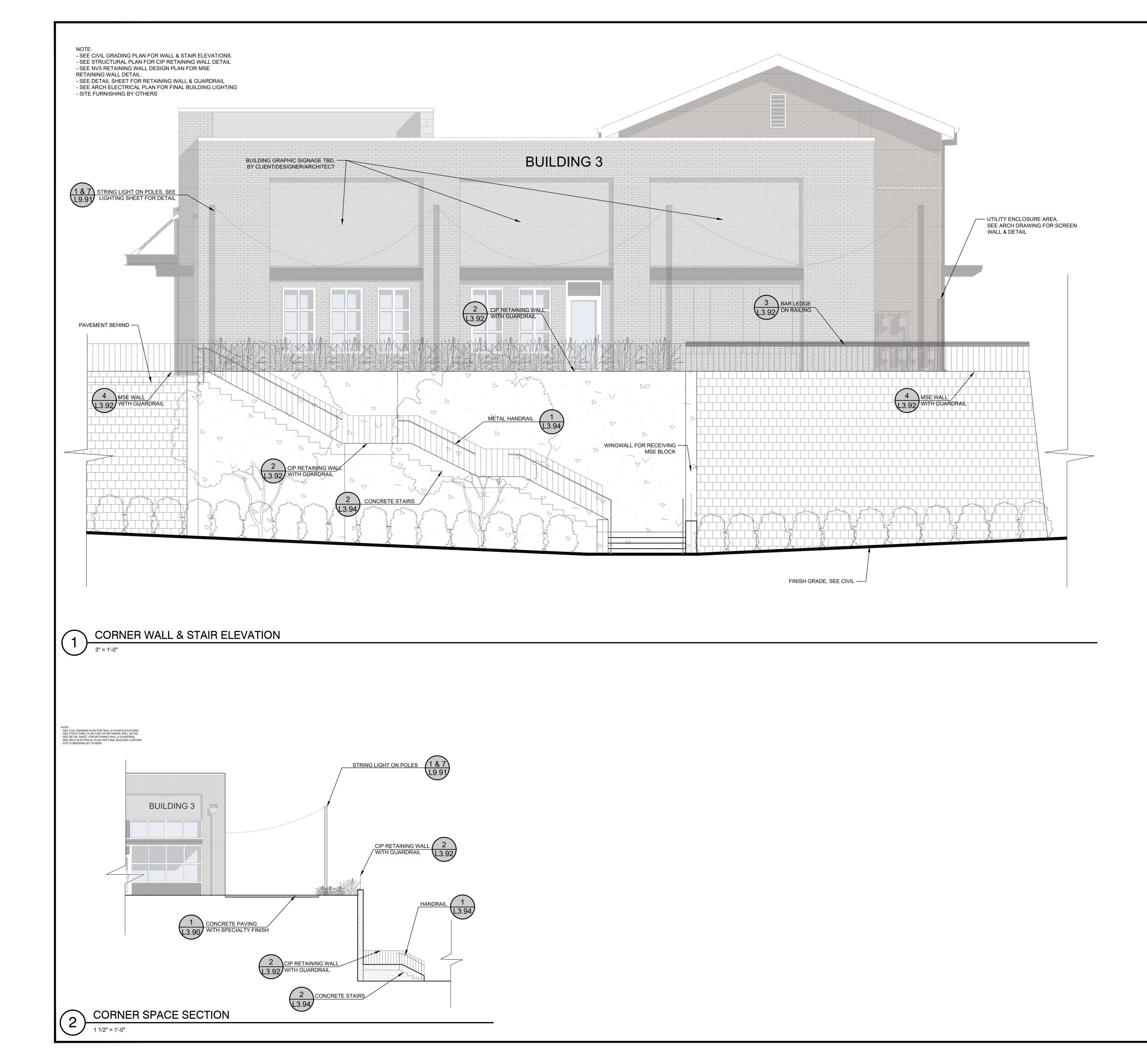




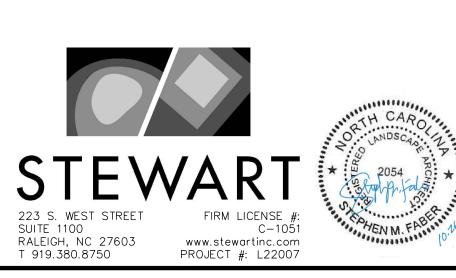
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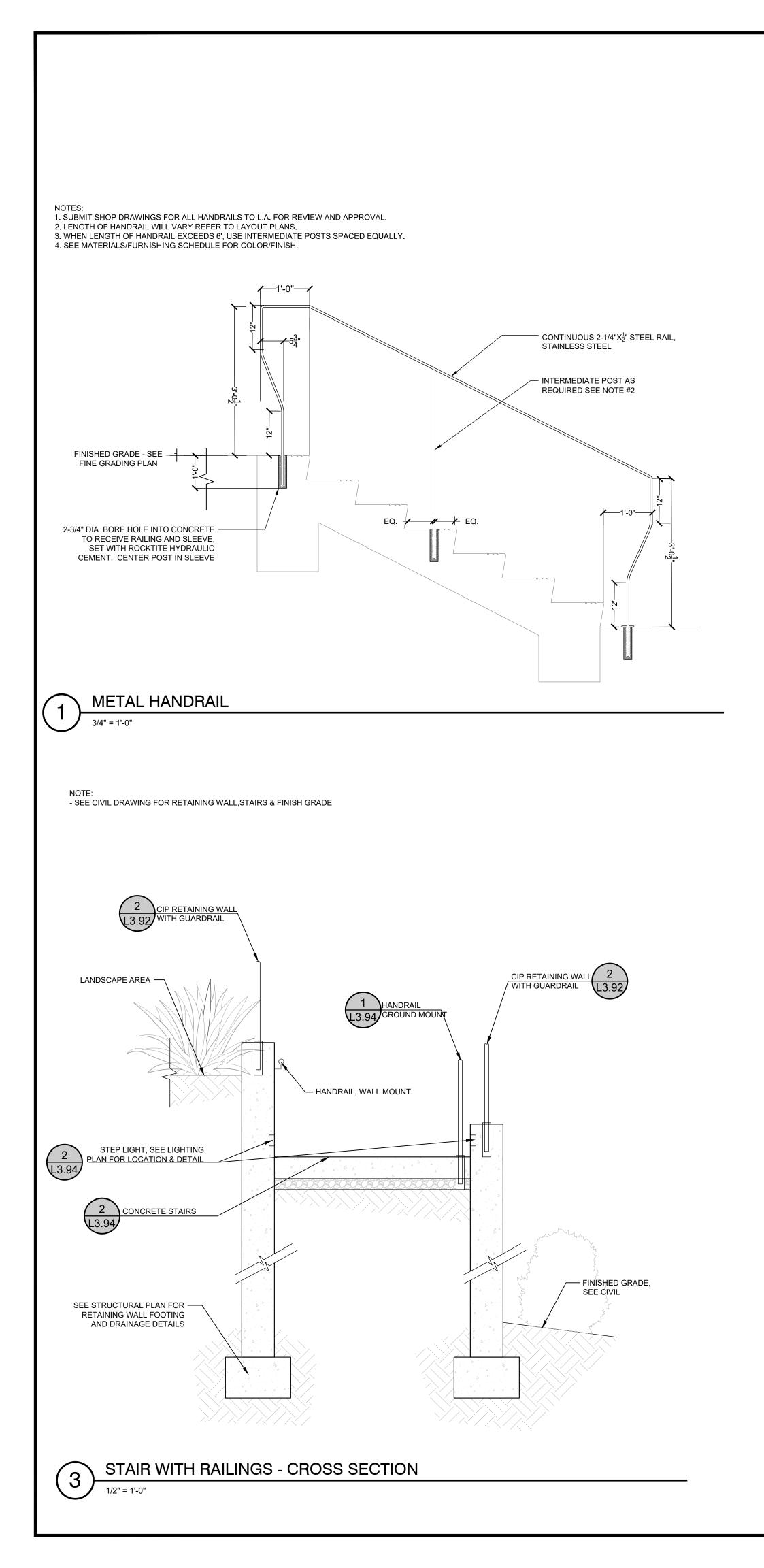
of

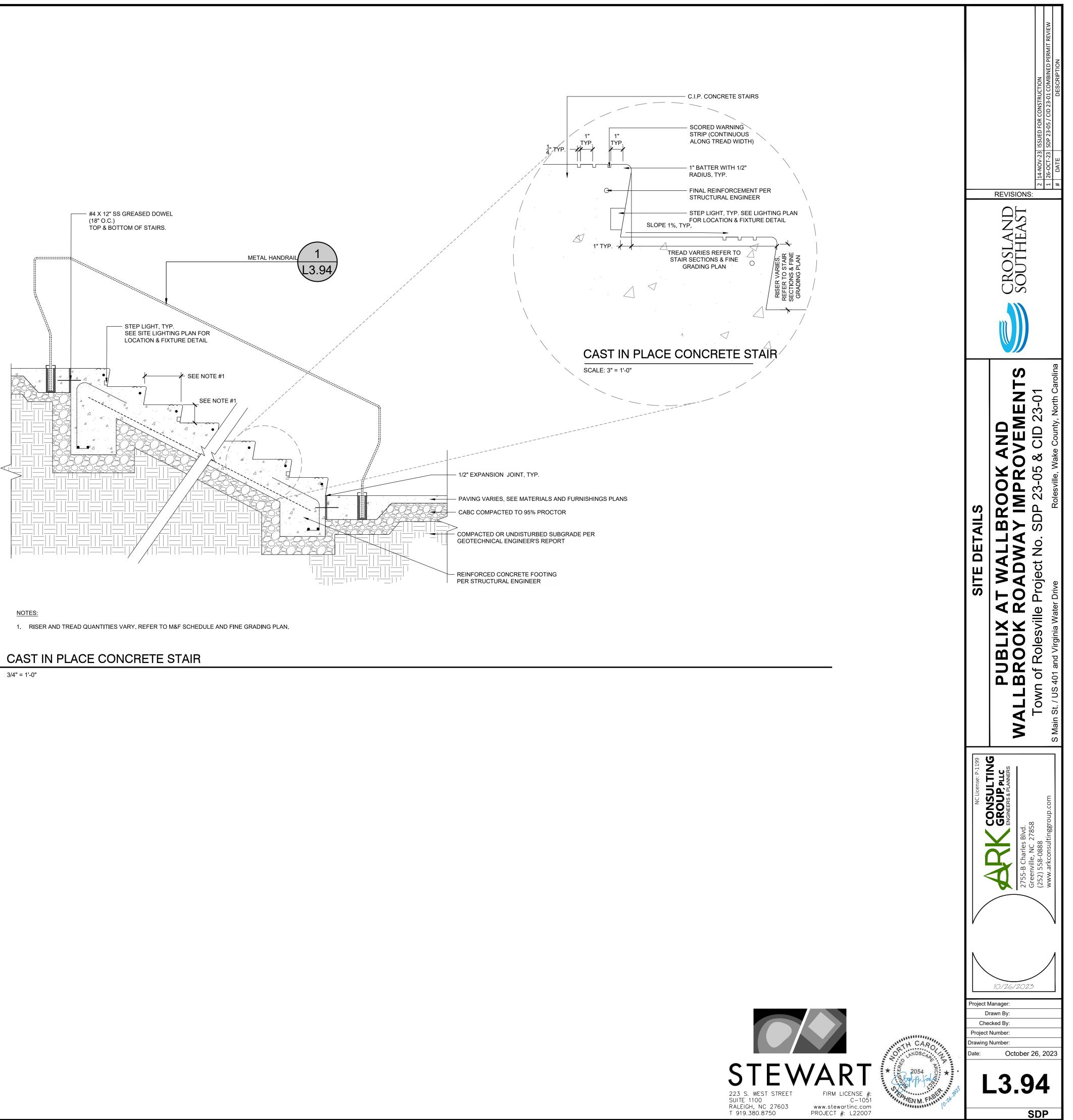




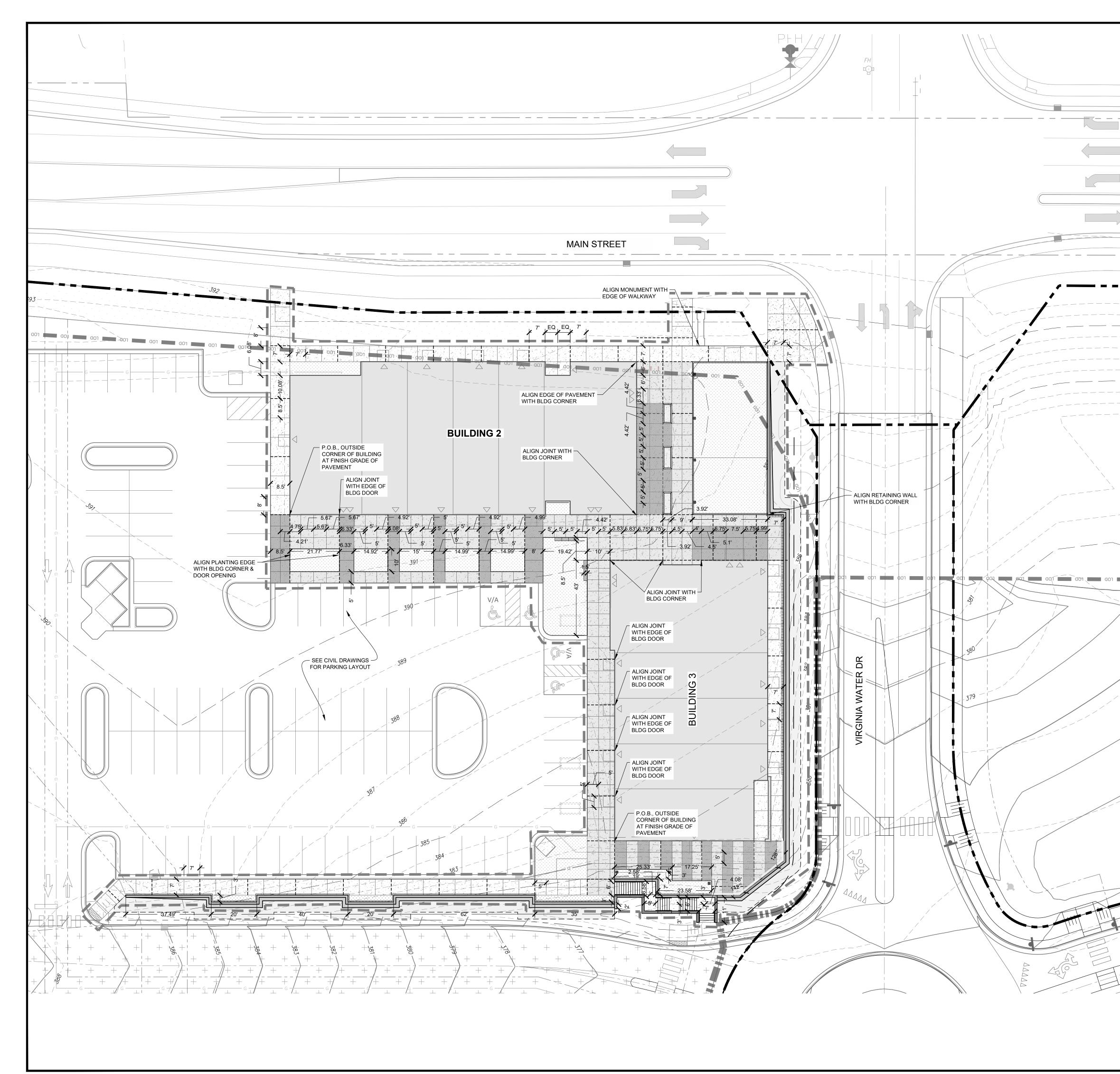
		REVISIO REVISIO		1 26-OCT-23 SDP 23-05 / CID 23-01 COMBINED PERMIT REVIEW # DATE DESCRIPTION
	SITE DETAILS	AT WALLBROOK AND	Project No. SDP 23-05 & CID 23-01	Rolesville, Wake County, North Carolina
	SITE DI	WALLE AT WAL	U	S Main St. / US 401 and Virginia Water Drive
	NC License: P-1199	CONSULTING GROUP PLLC ENGINEERS & PLANNERS	27.55-B Charles Blvd. Greenville, NC 27858 (252) 558-0888	www.arkconsultinggroup.com
	Che	rawn By: cked By: Number: Number:	023 Der 26, 2	2023
LAL ^S	L	_3.	93 SDF	
				-

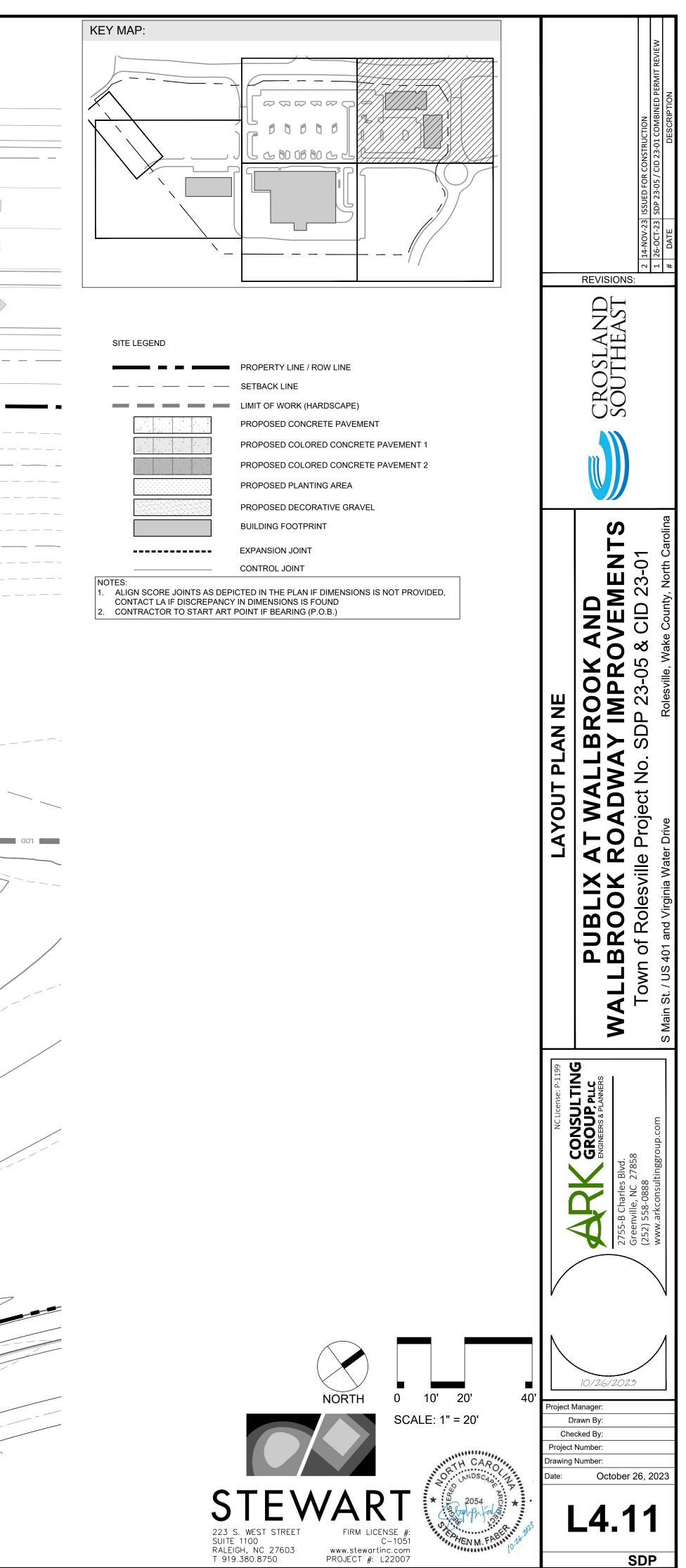


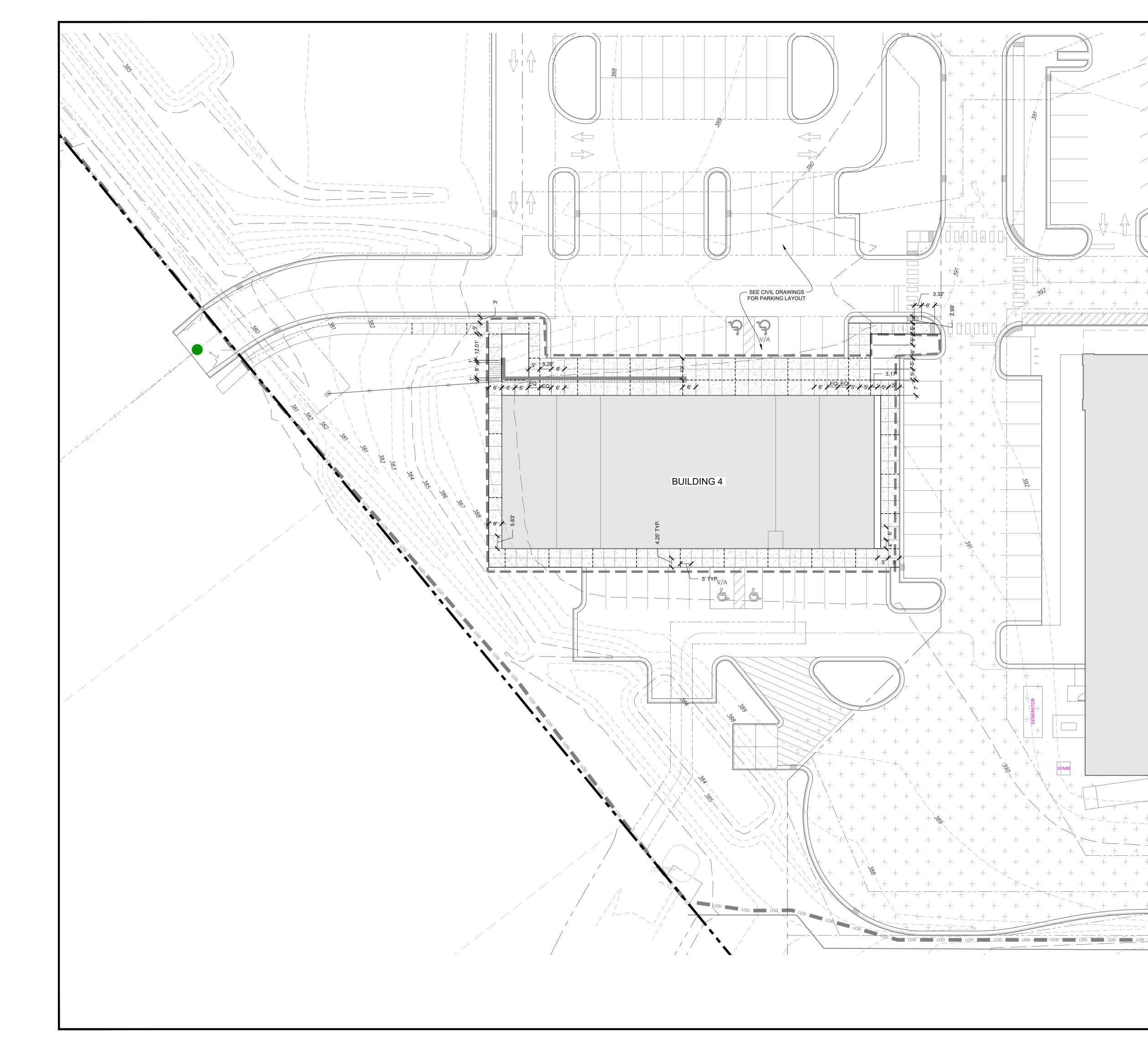




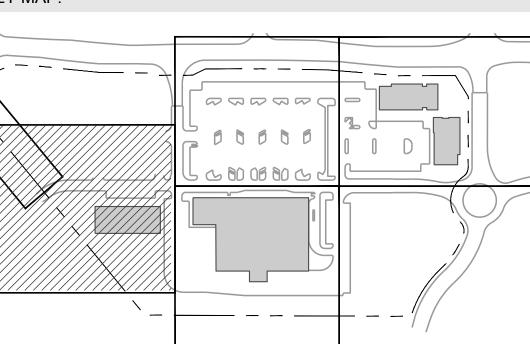








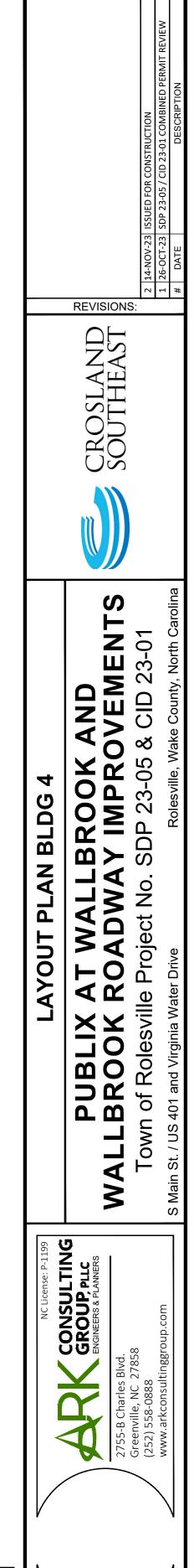
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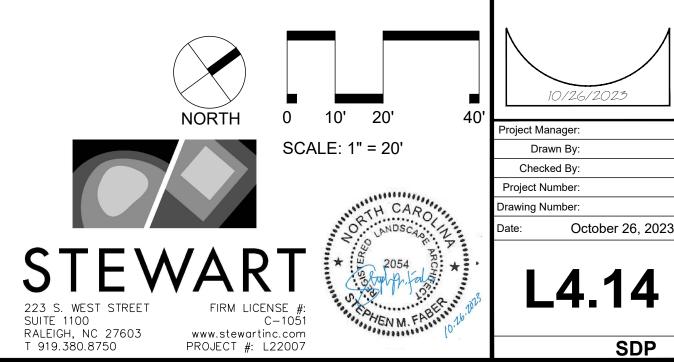


SITE LEGEND

PROPERTY LINE / ROW LINE
SETBACK LINE
LIMIT OF WORK (HARDSCAPE)
PROPOSED CONCRETE PAVEMENT
PROPOSED COLORED CONCRETE PAVEMENT 1
PROPOSED COLORED CONCRETE PAVEMENT 2
PROPOSED PLANTING AREA
PROPOSED DECORATIVE GRAVEL
BUILDING FOOTPRINT

EXPANSION JOINT





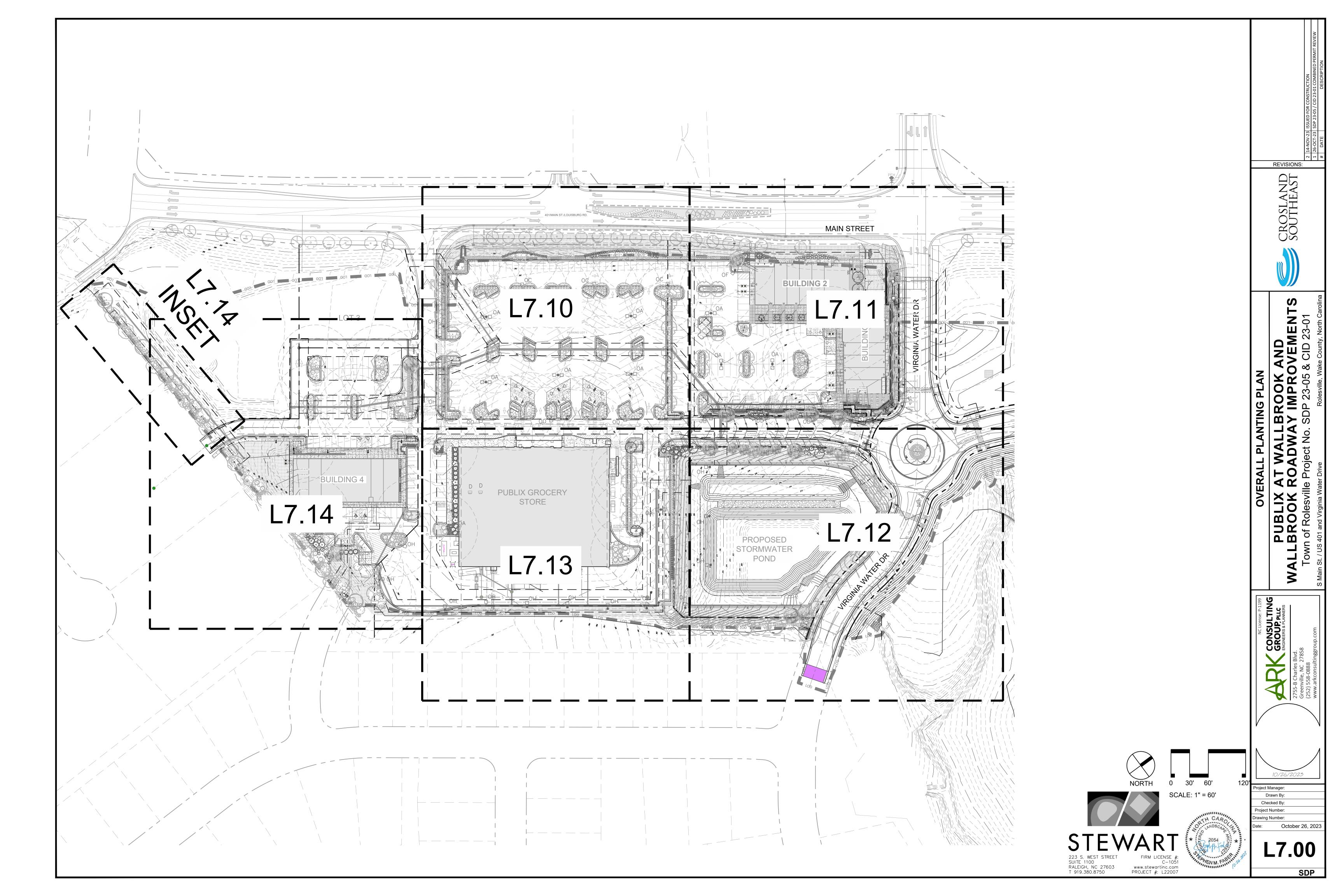


Image: Problem in the set of the	PLANT SCHEDULE C				CONTAINER	CALIPER	HEIGHT	SPREAD	NOTES
Note of the set of t	prove and a second seco		7	PINUS TAEDA					
No. No. <td>PERIMETER BUFFER TREES</td> <td>CODE</td> <td>QTY</td> <td></td> <td></td> <td>CALIPER</td> <td></td> <td></td> <td></td>	PERIMETER BUFFER TREES	CODE	QTY			CALIPER			
A.N D.N. Party genetic PA D.N. D. a.A. D. a.A. D. a.A. D. a.A. I.N. N.N. N.N. <t< td=""><td>\bigcirc</td><td>JR BF</td><td>9</td><td></td><td>B&B</td><td>2.5" CAL.</td><td>50 TO 100 FT</td><td>40 TO 60 FT</td><td>PERIMETER BUFFER</td></t<>	\bigcirc	JR BF	9		B&B	2.5" CAL.	50 TO 100 FT	40 TO 60 FT	PERIMETER BUFFER
No. No. Soft Processes All No. No. No. No. </td <td>\bigcirc</td> <td>LC BF</td> <td>10</td> <td></td> <td>B&B</td> <td>2.5" CAL.</td> <td>30 TO 50 FT</td> <td>10 TO 20FT</td> <td>PERIMETER BUFFER</td>	\bigcirc	LC BF	10		B&B	2.5" CAL.	30 TO 50 FT	10 TO 20FT	PERIMETER BUFFER
Image: state in the		MG BF	8		B&B	8`-10` HT	40 TO 60FT	30 TO 50 FT	
No. 0 No. 0 <th< td=""><td>\bigcirc</td><td>PT BF</td><td>9</td><td></td><td>B&B</td><td>8`-10` HT</td><td>40 TO 90 FT</td><td>20 TO 40 FT</td><td>PERIMETER BUFFER</td></th<>	\bigcirc	PT BF	9		B&B	8`-10` HT	40 TO 90 FT	20 TO 40 FT	PERIMETER BUFFER
		QA BF	7		B&B		50 TO 100 FT	50 TO 80 FT	PERIMETER BUFFER
normal a decaydefa burderdefa b	A LINE A LINE A			JUNIPERUS VIRGINIANA					PERIMETER BUFFER
Image: Second		CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	CALIPER	HEIGHT	SPREAD	NOTES
0 0		QPH-REP	7		B&B	2.5" CAL.	40 TO 75 FT	25 TO 50 FT	
Processes <		QS-REP	5		B&B	2.5 IN	40 TO 60FT	30 TO 40 FT	
Image: Problem of the set of th		CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	CALIPER	HEIGHT	SPREAD	NOTES
NUMBER NUMER NUMER NUMER <td></td> <td>JV-REP</td> <td>3</td> <td></td> <td>B&B</td> <td>8`-10` HT</td> <td>30 TO 65 FT</td> <td>8 TO 25 FT</td> <td></td>		JV-REP	3		B&B	8`-10` HT	30 TO 65 FT	8 TO 25 FT	
Image: Control of the second control of th			<u> </u>						NOTES
Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>	\frown								
・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・				PIN OAK					VUA
				AMELANCHIER ARBOREA					NOTES FULL, MATCHED, 3 TRUNK MIN.
Image Image Distance of contraction Image Number Number Section Allene of contraction Allene of contracti		CA2	7		B&B	8`-10` HT	20 TO 35 FT	20 TO 35 FT	3 TRUNK MIN
No. No. <td>$\overbrace{(\cdot)}$</td> <td>нумн</td> <td>5</td> <td></td> <td>CONTAINER</td> <td>6-8`</td> <td>15 TO 20 FT</td> <td>15 TO 20 FT</td> <td>FULL, LIMBED UP</td>	$\overbrace{(\cdot)}$	нумн	5		CONTAINER	6-8`	15 TO 20 FT	15 TO 20 FT	FULL, LIMBED UP
Operation Operation <t< td=""><td></td><td>MJ</td><td>6</td><td></td><td>B&B</td><td>1.5 IN CAL, 8` MIN HT</td><td>20 TO 25 FT</td><td>15 TO 20 FT</td><td></td></t<>		MJ	6		B&B	1.5 IN CAL, 8` MIN HT	20 TO 25 FT	15 TO 20 FT	
Image: Second	\bigcirc	MXJZ	3		#15	1.5 IN CAL, 8` MIN HT	20 TO 30 FT	6 TO 8 FT	FULL, MATCHED
Image: Control (Control (CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER	CALIPER	HEIGHT	SPREAD	NOTES
			28			2.5" CAL 10` MIN HT	30 TO 50 FT	20 TO 30 FT	FULL, VUA
・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・				TUPELO	DQD				
COUNCIL DECONK DECONK <thdeconk< th=""> <thdeconk< th=""> <thdeconk< t<="" td=""><td></td><td></td><td></td><td>QUERCUS NUTTALLII</td><td></td><td></td><td></td><td></td><td>VUA</td></thdeconk<></thdeconk<></thdeconk<>				QUERCUS NUTTALLII					VUA
Image: constraint of the second se		QN VU	32	QUERCUS NUTTALLII NUTTALL OAK QUERCUS PHELLOS	B&B	2.5" CAL.	50 TO 80 FT	40 TO 60 FT	VUA
Image: Constraint of the second sec		QN VU QPH-VUA QR VU	32 10 15	QUERCUS NUTTALLII NUTTALL OAK QUERCUS PHELLOS WILLOW OAK QUERCUS RUBRA RED OAK	B&B B&B B&B	2.5" CAL. 2 IN	50 TO 80 FT 40 TO 75 FT 50 TO 70 FT	40 TO 60 FT 25 TO 50 FT 50 TO 70 FT	FULL
Link Link Devil LAM BEAUTIGENTY CONT. 24 H1 FLOS FL 310 H7 UCA O CC 164 BUDDEDAND CONT. 24 HT 2 TO 6 FT 2 TO 6 FT VERMINE O n2 39 CONT. 24 HT 4 TO 6 FT 2 TO 6 FT PENMETER SUMBON DEVISION O n2 39 CONT. 24 HT 4 TO 6 FT 4 TO 6 FT PENMETER SUMPERA O n16 3 PENMETER SUMETER SUMETER CONT. 24 HT 4 TO 6 FT 9 TO 8 FT VEL O n16 34 PERMETER SUMPERA CONT. 24 HT 6 TO 8 FT 9 TO 8 FT VEL O M0 42 PERMETER SUMPERA CONT. 24 HT 8 TO 8 FT 9 TO 8 FT VEL O M14 27 PERMETER SUMPERA CONT. 24 HT 8 TO 8 FT 9 TO 8 FT VEL O M14 7 PERMETER SUMPERA CONT. 24 HT 8 TO 8 FT VEL VEL O M14 23 AAMENTER SUMPERA CONT. 24 HT	+ DECIDUOUS SHRUBS	QN VU QPH-VUA QR VU CODE	32 10 15 QTY	QUERCUS NUTTALLII NUTTALL OAK QUERCUS PHELLOS WILLOW OAK QUERCUS RUBRA RED OAK BOTANICAL / COMMON NAME CALLICARPA AMERICANA	B&B B&B B&B CONTAINER	2.5" CAL. 2 IN 2.5 IN	50 TO 80 FT 40 TO 75 FT 50 TO 70 FT HEIGHT	40 TO 60 FT 25 TO 50 FT 50 TO 70 FT SPREAD	FULL NOTES
O Co 104 CARMOPTERIES X LANDONENSIS CONT. 24' HT 2 TO 4FT 2 TO 3FT VUA Image: Control of the state of the	Image: Constraint of the second se	QN VU QPH-VUA QR VU CODE CAAB	32 10 15 QTY 15	QUERCUS NUTTALLII NUTTALL OAK QUERCUS PHELLOS WILLOW OAK QUERCUS RUBRA RED OAK BOTANICAL / COMMON NAME CALLICARPA AMERICANA AMERICAN BEAUTYBERRY CALLICARPA AMERICANA	B&B B&B B&B CONTAINER CONT.	2.5" CAL. 2 IN 2.5 IN 12-18"	50 TO 80 FT 40 TO 75 FT 50 TO 70 FT HEIGHT 3 TO 6 FT	40 TO 60 FT 25 TO 50 FT 50 TO 70 FT SPREAD 3 TO 6 FT	FULL FULL NOTES FULL
Image: Construction of the state of the	Image: Constraint of the second se	QN VU QPH-VUA QR VU CODE CAAB CA	32 10 15 QTY 15 58	QUERCUS NUTTALLII NUTTALL OAK QUERCUS PHELLOS WILLOW OAK QUERCUS RUBRA RED OAK BOTANICAL / COMMON NAME CALLICARPA AMERICANA AMERICAN BEAUTYBERRY CALLICARPA X 'NCCX2' TM	B&B B&B CONTAINER CONT. CONT.	2.5" CAL. 2 IN 2.5 IN 12-18" 24" HT	50 TO 80 FT 40 TO 75 FT 50 TO 70 FT HEIGHT 3 TO 6 FT 3 TO 6 FT	40 TO 60 FT 25 TO 50 FT 50 TO 70 FT SPREAD 3 TO 6 FT 3 TO 6 FT	FULL NOTES FULL VUA PERIMETER BUFFER
Image: Second	Image: Constraint of the second s	QN VU QPH-VUA QR VU CODE CAAB CA CP	32 10 15 QTY 15 58 198	QUERCUS NUTTALLII NUTTALL OAK QUERCUS PHELLOS WILLOW OAK QUERCUS RUBRA RED OAK BOTANICAL / COMMON NAME CALLICARPA AMERICANA AMERICAN BEAUTYBERRY CALLICARPA X 'NCCX2' TM PEARL GLAM BEAUTYBERRY CARYOPTERIS X CLANDONENSIS	B&B B&B B&B CONTAINER CONT. CONT. CONT.	2.5" CAL. 2 IN 2.5 IN 12-18" 24" HT 24" HT	50 TO 80 FT 40 TO 75 FT 50 TO 70 FT HEIGHT 3 TO 6 FT 3 TO 6 FT 4 TO 5 FT	40 TO 60 FT 25 TO 50 FT 50 TO 70 FT 3 TO 6 FT 3 TO 6 FT 3 TO 4 FT	FULL FULL NOTES FULL VUA VUA VUA VUA VUA VUA
Image: constraint of the set	Image: Constraint of the second s	QN VU QPH-VUA QR VU CODE CAAB CA CP CC	32 10 15 QTY 15 58 198 104	QUERCUS NUTTALLII NUTTALL OAK QUERCUS PHELLOS WILLOW OAK QUERCUS RUBRA RED OAK BOTANICAL / COMMON NAME CALLICARPA AMERICANA AMERICAN BEAUTYBERRY CALLICARPA AMERICANA AMERICAN BEAUTYBERRY CALLICARPA X 'NCCX2' TM PEARL GLAM BEAUTYBERRY CARYOPTERIS X CLANDONENSIS BLUEBEARD FORSYTHIA X INTERMEDIA	B&B B&B B&B CONTAINER CONT. CONT. CONT. CONT.	2.5" CAL. 2 IN 2.5 IN 12-18" 24" HT 24" HT 24" HT	50 TO 80 FT 40 TO 75 FT 50 TO 70 FT HEIGHT 3 TO 6 FT 3 TO 6 FT 4 TO 5 FT 2 TO 4 FT	40 TO 60 FT 25 TO 50 FT 50 TO 70 FT SPREAD 3 TO 6 FT 3 TO 6 FT 3 TO 4 FT 2 TO 3 FT	FULL FULL NOTES FULL VUA PERIMETER BUFFER VUA VUA VUA VUA VUA VUA VUA
Image: Section of the section of th	Image: Constraint of the second s	QN VU QPH-VUA QR VU CODE CAAB CA CA CP CC FI2	32 10 15 QTY 15 58 198 104 39	QUERCUS NUTTALLII NUTTALL OAK QUERCUS PHELLOS WILLOW OAK QUERCUS RUBRA RED OAK BOTANICAL / COMMON NAME CALLICARPA AMERICANA AMERICAN BEAUTYBERRY CALLICARPA AMERICANA AMERICAN BEAUTYBERRY CALLICARPA X 'NCCX2' TM PEARL GLAM BEAUTYBERRY CARYOPTERIS X CLANDONENSIS BLUEBEARD FORSYTHIA X INTERMEDIA BORDER FORSYTHIA HYDRANGEA PANICULATA 'SMHPFL'	B&B B&B B&B CONTAINER CONT. CONT. CONT. CONT. CONT.	2.5" CAL. 2 IN 2.5 IN 12-18" 24" HT 24" HT 24" HT 24" HT	50 TO 80 FT 40 TO 75 FT 50 TO 70 FT HEIGHT 3 TO 6 FT 3 TO 6 FT 4 TO 5 FT 2 TO 4 FT 4 TO 5 FT	40 TO 60 FT 25 TO 50 FT 50 TO 70 FT 3 TO 6 FT 3 TO 6 FT 3 TO 4 FT 2 TO 3 FT 4 TO 6 FT	FULL FULL NOTES FULL VUA PERIMETER BUFFER VUA VUA PERIMETER BUFFER PERIMETER BUFFER PERIMETER BUFFER PERIMETER BUFFER
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SetIV10ITEA VIRGINICA 'HENRY'S GARNET' HENRY'S GARNET SWEETSPIRECONT.24" HT4 TO 6 FT4 TO 6 FTVUAImage: Construction of the intervise o		QN VU QPH-VUA QR VU CODE CAAB CA CP CC F12 HF HQ HW	32 10 15 QTY 15 58 198 104 39 3 3 39 42	QUERCUS NUTTALLII NUTTALL OAK QUERCUS PHELLOS WILLOW OAK QUERCUS RUBRA BOTANICAL / COMMON NAME CALLICARPA AMERICANA AMERICAN BEAUTYBERRY CALLICARPA AMERICANA AMERICAN BEAUTYBERRY CALLICARPA X 'NCCX2' TM PEARL GLAM BEAUTYBERRY CALLICARPA X 'NCCX2' TM PEARL GLAM BEAUTYBERRY CARYOPTERIS X CLANDONENSIS BUEBEARD FORSYTHIA X INTERMEDIA BORDER FORSYTHIA HYDRANGEA PANICULATA 'SMHPFL' FIRE LIGHT® PANICLE HYDRANGEA HYDRANGEA QUERCIFOLIA HYDRANGEA QUERCIFOLIA PEE WEE OAKLEAF HYDRANGEA	B&B B&B B&B B&B CONTAINER CONT.	2.5" CAL. 2 IN 2.5 IN 12-18" 24" HT 24" HT 24" HT 24" HT 18-24" 18-24" 24" HT 18-24" 12-18"	50 TO 80 FT 40 TO 75 FT 50 TO 70 FT HEIGHT 3 TO 6 FT 3 TO 6 FT 4 TO 5 FT 2 TO 4 FT 4 TO 5 FT 6 TO 8 FT 6 TO 8 FT 3 TO 4 FT	40 TO 60 FT 25 TO 50 FT 50 TO 70 FT SPREAD 3 TO 6 FT 3 TO 6 FT 3 TO 4 FT 2 TO 3 FT 4 TO 6 FT 6 TO 8 FT 6 TO 8 FT 2 TO 4FT	Image: state stat
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	Image: strain of the strain of t	QN VU QPH-VUA QR VU CODE CAAB CA CP CA FI2 HF HQ HQ IVHG IVHG QNWU AQMU AQMU DXCB	32 10 15 QTY 15 58 198 104 39 30 30 30 30 30 42 27 7 10 29 93 QTY 168 18 158 60 18	QUERCUS NUTTALLII NUTTALL OAK QUERCUS PHELLOS WILLOW OAK QUERCUS RUBRA RED OAK BOTANICAL / COMMON NAME CALLICARPA AMERICANA AMERICAN BEAUTYBERRY CALLICARPA AMERICANA AMERICAN BEAUTYBERRY CALLICARPA X: NCCX2' TM PEARL GLAM BEAUTYBERRY CARYOPTERIS X CLANDONENSIS BUUEBEARD FORSYTHIA X INTERMEDIA BORDER FORSYTHIA HYDRANGEA PANICULATA 'SMHPFL' FIRE LIGHT® PANICLE HYDRANGEA HYDRANGEA QUERCIFOLIA OAKLEAF HYDRANGEA HYDRANGEA QUERCIFOLIA 'DEE WEE' PEE WEE OAKLEAF HYDRANGEA HYDRANGEA QUERCIFOLIA 'TURKEY HEAVEN' TURKEY HEAVEN OAKLEAF HYDRANGEA HYDRANGEA QUERCIFOLIA 'TURKEY HEAVEN' TURKEY GARNET SWEETSPIRE ITEA VIRGINICA 'HENRY'S GARNET' HENRY'S GARNET SWEETSPIRE JASMINUM NUDIFLORUM WINTER JASMINE RHUS AROMATICA 'GRO-LOW' GRO-LOW FRAGRANT SUMAC BOTANICAL / COMMON NAME ABELIA X GRANDIFLORA 'HOPLEYS' MISS LEMON™ GLOSSY ABELIA<	B&B B&B B&B CONTAINER CONT. CONT.	2.5" CAL. 2 IN 2.5 IN 12-18" 24" HT 24" HT 24" HT 24" HT 18-24" 24" HT 12-18" 24" HT 24" HT 24" HT 24" HT 24" HT 24" HT 24" HT 24" HT 24" HT 24" HT	50 TO 80 FT 40 TO 75 FT 50 TO 70 FT HEIGHT 3 TO 6 FT 3 TO 6 FT 4 TO 5 FT 2 TO 4 FT 4 TO 5 FT 6 TO 8 FT 6 TO 8 FT 3 TO 4 FT 3 TO 4 FT 3 TO 4 FT 4 TO 6 FT 4 TO 6 FT 10 TO 15 FT 2 FT HEIGHT 4 TO 6 FT 3 FT 2 TO 5 FT 3 TO 4 FT 3 TO 4 FT	40 TO 60 FT 25 TO 50 FT 50 TO 70 FT 50 TO 70 FT 3 TO 6 FT 3 TO 6 FT 3 TO 6 FT 4 TO 6 FT 4 TO 6 FT 6 TO 8 FT 2 TO 4FT 4 TO 6 FT 4 TO 6 FT 4 TO 6 FT 3 TO 6 FT 3 TO 6 FT 4 TO 6 FT 3 TO 6 FT 3 TO 6 FT 3 TO 7 FT	Image: series of the series

PLANT SCHEDULE								
\bigcirc	IGSH2	13	ILEX GLABRA 'SHAMROCK' SHAMROCK INKBERRY HOLLY	CONT.	12-18"	5 FT	5 FT	FULL
\bigcirc	IS	7	ILEX GLABRA 'SHAMROCK' SHAMROCK INKBERRY HOLLY	CONT.	24" HT	5 FT	5 FT	VUA PERIMETER BUFFER
\odot	IVNA	78	ILEX VOMITORIA 'NANA' DWARF YAUPON HOLLY	CONT.	12-18"	3 TO 5FT	3 TO 6 FT	FULL, VUA
\bigcirc	JVGO2	192	JUNIPERUS VIRGINIANA 'GREY OWL' GREY OWL EASTERN REDCEDAR	CONT.	24" HT	2 TO 3 FT	4 TO 6 FT	VUA
\bigcirc	LCDF	23	LOROPETALUM CHINENSE 'DARK FIRE' DARK FIRE CHINESE FRINGE FLOWER	CONT.	24" HT	5 FT	5 FT	VUA
(â)	VC VU	14	VIBURNUM TINUS 'COMPACTUM' COMPACT LAURUSTINUS	CONT.	24" HT	4 TO 6 FT	4 TO 6 FT	FULL, VUA
\odot	VTSB	23	VIBURNUM TINUS 'SPRING BOUQUET' SPRING BOUQUET LAURUSTINUS	CONT.	36"	5 TO 6 FT	5 TO 6 FT	FULL
(··)	VXP	12	VIBURNUM X PRAGENSE PRAGUE VIBURNUM	CONT.	18-24"	8 FT	8FT	FULL
\odot	VP2	37	VIBURNUM X PRAGENSE PRAGUE VIBURNUM	CONT.	24" HT	8 FT	8FT	FULL
GRASSES	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER		HEIGHT	SPREAD	NOTES
	мс	4	MUHLENBERGIA CAPILLARIS PINK MUHLY GRASS	CONT.	12-18"	3 TO 4 FT	3 TO 4 FT	
\odot	PN	140	PANICUM VIRGATUM 'NORTHWIND' NORTHWIND SWITCH GRASS	CONT.	24" HT	5 TO 6 FT	2 TO 3 FT	VUA
١	PAKR	42	PENNISETUM ALOPECUROIDES `KARLEY ROSE` KARLEY ROSE FOUNTAIN GRASS	CONT.	24" HT	2 TO 3 FT	3 TO 4 FT	VUA
١	PARH	47	PENNISETUM ALOPECUROIDES `RED HEAD` RED HEAD FOUNTAIN GRASS	CONT.	24" HT	2.5 TO 3.5 FT	2 TO 3 FT	VUA
3 ³³³⁴	SS	64	SCHIZACHYRIUM SCOPARIUM LITTLE BLUESTEM	CONT.	12-18"	3 FT	2 TO 3 FT	
PERENNIALS	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER		HEIGHT	SPREAD	NOTES
\odot	ED	13	EUTROCHIUM DUBIUM JOE PYE WEED	CONT.		3 TO 5FT	2 TO 4FT	
PERIMETER BUFFER SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER		HEIGHT	SPREAD	NOTES
\bigcirc	IGSH	95	ILEX GLABRA 'SHAMROCK' SHAMROCK INKBERRY HOLLY	CONT.	24" HT	5 FT	5 FT	VUA PERIMETER BUFFER
\odot	JVGO	134	JUNIPERUS VIRGINIANA 'GREY OWL' GREY OWL EASTERN REDCEDAR	CONT.	24" HT	2 TO 3 FT	4 TO 6 FT	PERIMETER BUFFER VUA
VINES	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER		HEIGHT	SPREAD	NOTES
A	PQ	1	PARTHENOCISSUS QUINQUEFOLIA VIRGINA CREEPER	#1	24" HT	20 TO 40 FT	2 TO 3 FT	
SHRUB AREAS	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER		HEIGHT	SPREAD	NOTES
	SSBH	298	SCHIZACHYRIUM SCOPARIUM 'MINNBLUEA' BLUE HEAVEN® LITTLE BLUESTEM	#1	6-8"		2 FT	FULL
GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER		HEIGHT	SPREAD	NOTES
	САСН	2,574 SF	CAREX CHEROKEENSIS CHEROKEE SEDGE	18 PER TRAY		6 TO 8 IN	SPREADER	FULL
	ZOY	68,776 SF	ZOYSIAGRASS SEED					
PERENNIALS	CODE	QTY	BOTANICAL / COMMON NAME	CONTAINER		HEIGHT	SPREAD	NOTES
	AMLM	8	ACHILLEA MILLEFOLIUM 'LITTLE MOONSHINE PP#28179' LITTLE MOONSHINE YARROW	CONT.	4-6"	12 TO 14"	14 TO 16"	FULL
	CMAS	73	CENTAUREA MONTANA 'AMETHYST IN SNOW' AMETHYST IN SNOW PERENNIAL CORNFLOWER	#1	4-6"	12 IN	SPREADER	FULL
	EXCS	17	ECHINACEA X 'CHEYENNE SPIRIT' CHEYENNE SPIRIT CONEFLOWER	CONT.	4-6"	15 TO 18"	15 TO 18"	FULL
	VP	594	VERBENA CANADENSIS `HOMESTEAD PURPLE` HOMESTEAD PURPLE VERBENA		12"	12 IN	SPREADER	

	BUFFER	TABLE
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PERIMETER BUFFER CALCULATIONS:

PERIMETER BUFFER 1: 10' TYPE 1 PERIMETER BUFFER

LENGTH: 175 lf REQUIRED CANOPY TREES (3 PER 100 LF): 175÷ 100 * 3 = 5.25 = 6 TREES REQUIRED PROPOSED: 6 TREES TOTAL REQUIRED UNDERSTORY TREES (1 PER 100 LF): 175÷ 100 = 1.75 = 2 TREES REQUIRED PROPOSED: 2 TREES TOTAL REQUIRED SHRUBS (50 PER 100 LF): 175÷ 100 * 40 = 70 = 70 SHRUBS REQUIRED PROPOSED: 71 SHRUBS TOTAL

PERIMETER BUFFER 2: 15' TYPE 2 PERIMETER BUFFER LENGTH: 110 lf

REQUIRED CANOPY TREES (3 PER 100 LF): 110 ÷ 100 * 3 = 3.3 = 4 TREES REQUIRED PROPOSED: 4 TREES TOTAL REQUIRED UNDERSTORY TREES (1 PER 100 LF): 110÷ 100 = 1.1 = 2 TREES REQUIRED PROPOSED: 2 TREES TOTAL

REQUIRED SHRUBS (50 PER 100 LF): 110 ÷ 100 * 50 = 55 SHRUBS REQUIRED PROPOSED:55 SHRUBS TOTAL

PERIMETER BUFFER 2: 15' TYPE 2 PERIMETER BUFFER

LENGTH: 338LF REQUIRED CANOPY TREES (3 PER 100 LF): 338 ÷ 100 * 3 = 10.14 = 11 TREES REQUIRED PROPOSED: 11 TREES TOTAL REQUIRED UNDERSTORY TREES (1 PER 100 LF): 110÷ 100 = 3.38 = 4 TREES REQUIRED PROPOSED: 6 TREES TOTAL REQUIRED SHPLIPS (50 PEP 100 LF): 228 ÷ 400 * 50 = 450 SUBURD REQUIRED

REQUIRED SHRUBS (50 PER 100 LF): 338 ÷ 100 * 50 = 169 SHRUBS REQUIRED PROPOSED:173 SHRUBS TOTAL

STREET BUFFER CALCULATION:

MAIN ST.: LENGTH:680 lf

REQUIRED TREES (1 PER 40 LF): 680 ÷ 40 = 17 TREES REQUIRED PROPOSED: 17 STREET TREES + 9 EVERGREEN TREES = 26 TREES TOTAL ***

VIRGINIA WATER DR.: LENGTH: 360 If

REQUIRED TREES (1 PER 40 LF): 360 ÷ 40 = 9 TREES REQUIRED PROPOSED: 9 TREES TOTAL

VEHICULAR USE AREA (VUA) CALCULATIONS:

PARKING LOT 1: REQUIRED CANOPY TREES IN TERMINAL ISLANDS (1 PER ISLAND): 18 * 1 = 18 = 18 TREES REQUIRED PROPOSED: 18 TREES TOTAL REQUIRED CANOPY TREES IN INTERIOR ISLANDS (1 PER ISLAND): 10 * 1 = 10 = 10 TREES REQUIRED PROPOSED: 10 TREES TOTAL

REQUIRED CANOPY TREES IN DIVIDER (1 PER 30 LF): 180 ÷ 30 = 6 = 6 TREES REQUIRED PROPOSED: 6 TREES TOTAL

REQUIRED UNDERSTORY TREES IN DIVIDER (2 PER 30 LF): 30 ÷ 30 * 2 = 2 = 2 TREES REQUIRED PROPOSED: 2 TREES TOTAL

REQUIRED SHRUBS IN PARKING PERIMETER BUFFER (1 PER 3 LF): 733 ÷ 3 = 244.33 = 245 SHRUBS REQUIRED PROPOSED: 248 SHRUBS TOTAL PARKING LOT 2:

REQUIRED CANOPY TREES IN TERMINAL ISLANDS (1 PER ISLAND): 7 * 1 = 7 TREES REQUIRED PROPOSED: 7 TREES TOTAL REQUIRED SHRUBS IN PARKING PERIMETER BUFFER (1 PER 3 LF): 206 ÷ 3 = 68.67 = 69 SHRUBS REQUIRED PROPOSED: 95 SHRUBS TOTAL

PARKING LOT 3:

REQUIRED CANOPY TREES IN DIVIDER (1 PER 30 LF): 157 ÷ 30 = 5.23 = 6 TREES REQUIRED PROPOSED: 6 TREES TOTAL REQUIRED SHRUBS IN PARKING PERIMETER BUFFER (1 PER 3 LF): 278 ÷ 3 = 92.67 = 93 SHRUBS REQUIRED PROPOSED: 94 SHRUBS TOTAL

PARKING LOT 4:

REQUIRED CANOPY TREES IN TERMINAL ISLANDS (2PER ISLAND): 4*2=8 TREES REQUIRED PROPOSED: 8 TREES TOTAL

REQUIRED CANOPT TREES IN INTERIOR ISLANDS (2 PER ISLAND): 1*2 = 2 TREE REQUIRED PROPOSED: 2 TREES TOTAL

REQUIRED SHRUBS IN PARKING PERIMETER BUFFER (1 PER 3 LF): 100 ÷ 3 = 33.3 = 33 SHRUBS REQUIRED PROPOSED: 33 SHRUBS TOTAL REQUIRED CANOPY TREES IN DIVIDER (1 PER 30 LF): 100 ÷ 30 = 3.33 = 3 TREES REQUIRED

REPLACEMENT TREES REQUIRED ON WALLBROOK SITE: 12 DECIDUOUS + 8 EVERGREEN PROPOSED REPLACEMENT TREES: 12 DECIDUOUS + 8 EVERGREEN

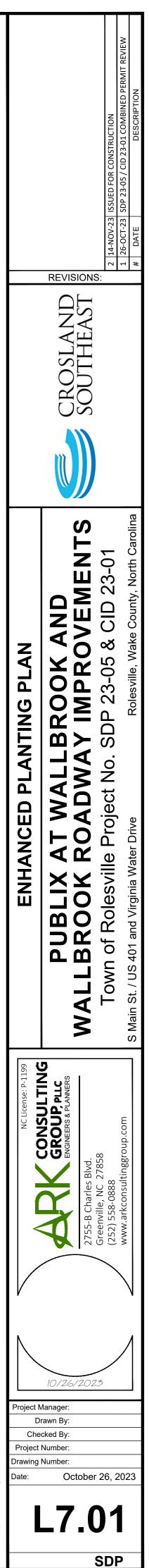
PROPOSED: 3 TREES TOTAL

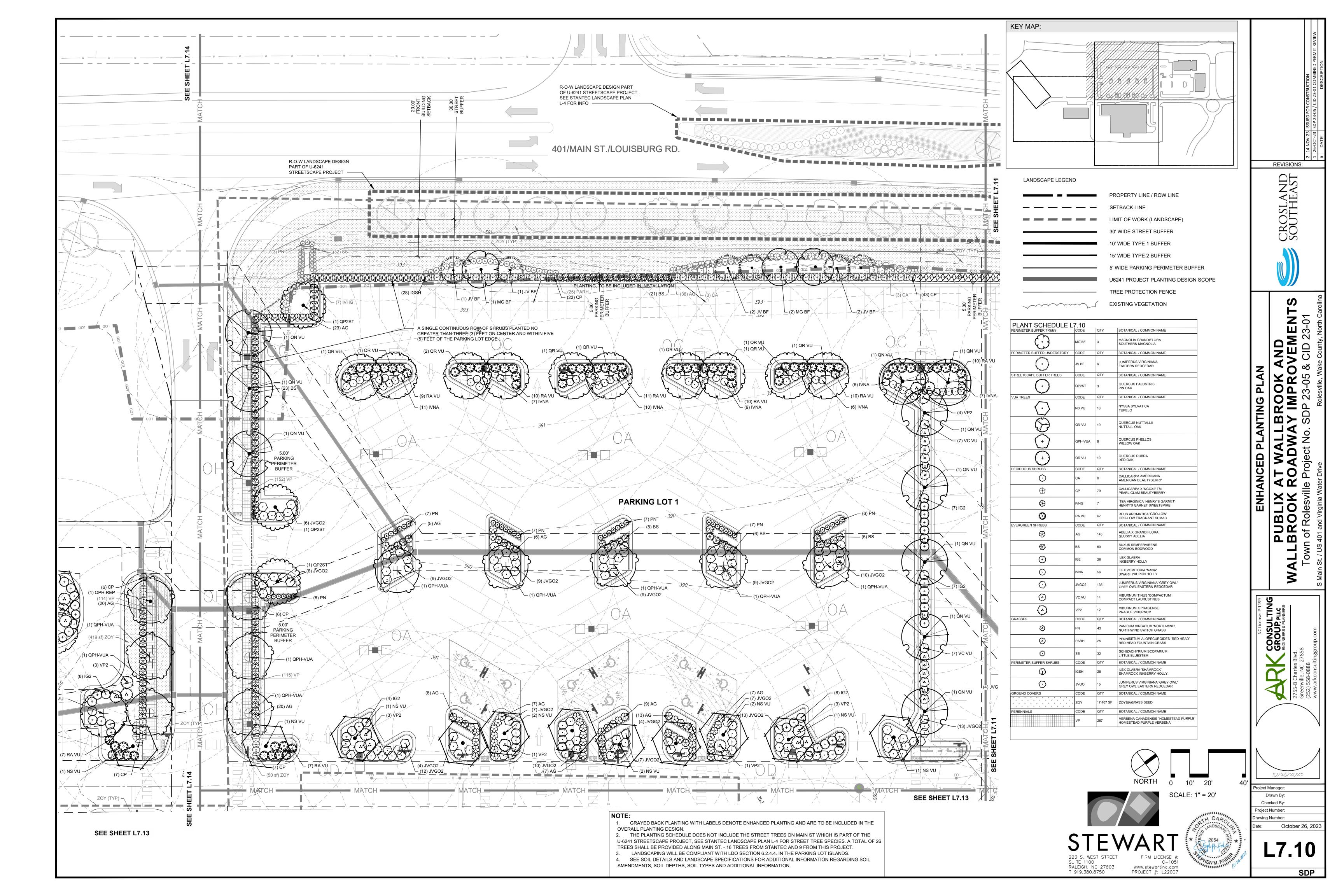
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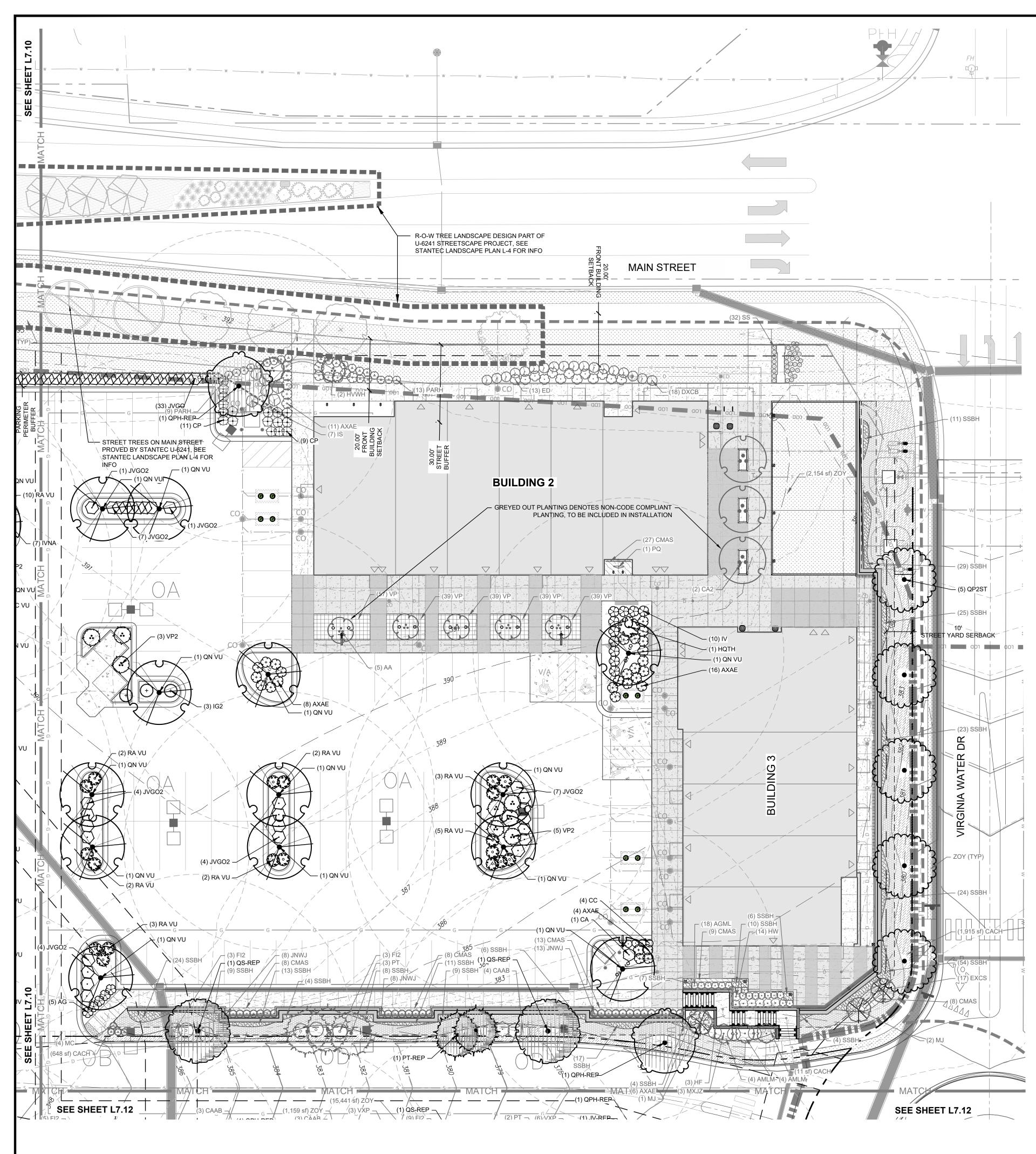
1. THE PLANTING SCHEDULE DOES NOT INCLUDE THE STREET TREES ON MAIN ST WHICH IS PART OF THE U-6241 STREETSCAPE PROJECT, SEE STANTEC LANDSCAPE PLAN L-4 FOR STREET TREE SPECIES. A TOTAL OF 26 TREES SHALL BE PROVIDED ALONG MAIN ST. - 16 TREES FROM STANTEC AND 9 FROM THIS PROJECT.

 LANDSCAPING WILL BE COMPLIANT WITH LDO SECTION 6.2.4.4. IN THE PARKING LOT ISLANDS.
 SEE SOIL DETAILS AND LANDSCAPE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING SOIL AMENDMENTS, SOIL DEPTHS, SOIL TYPES AND ADDITIONAL INFORMATION.

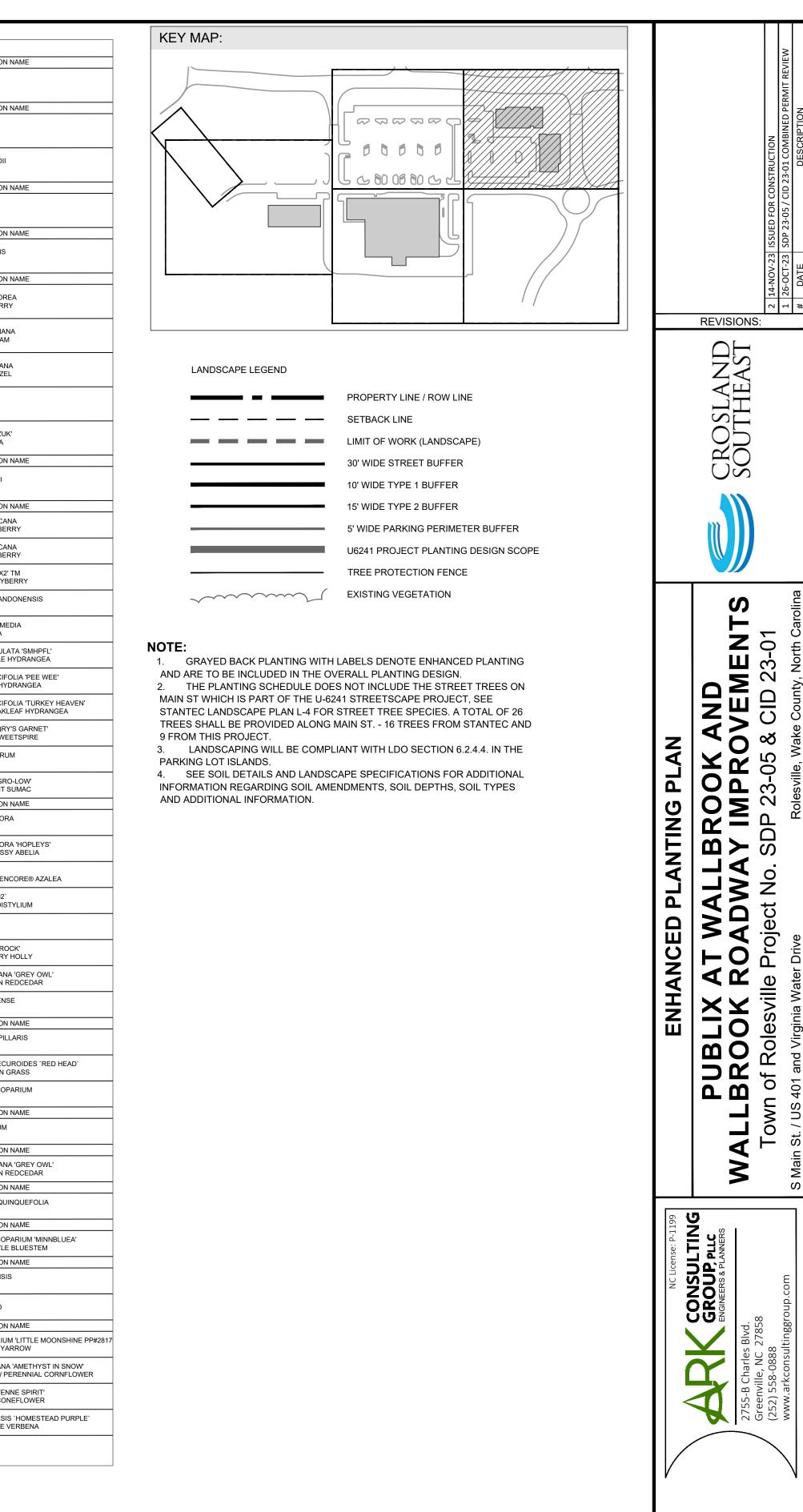


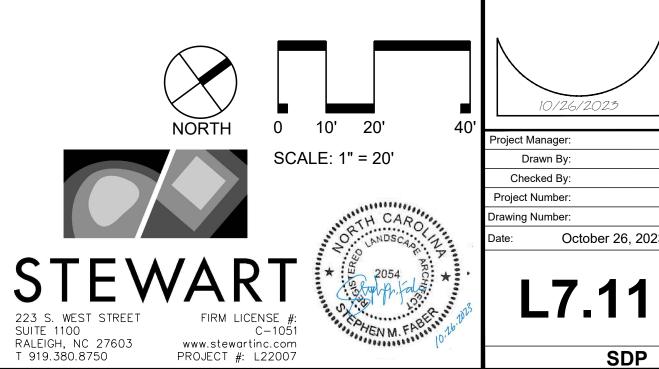


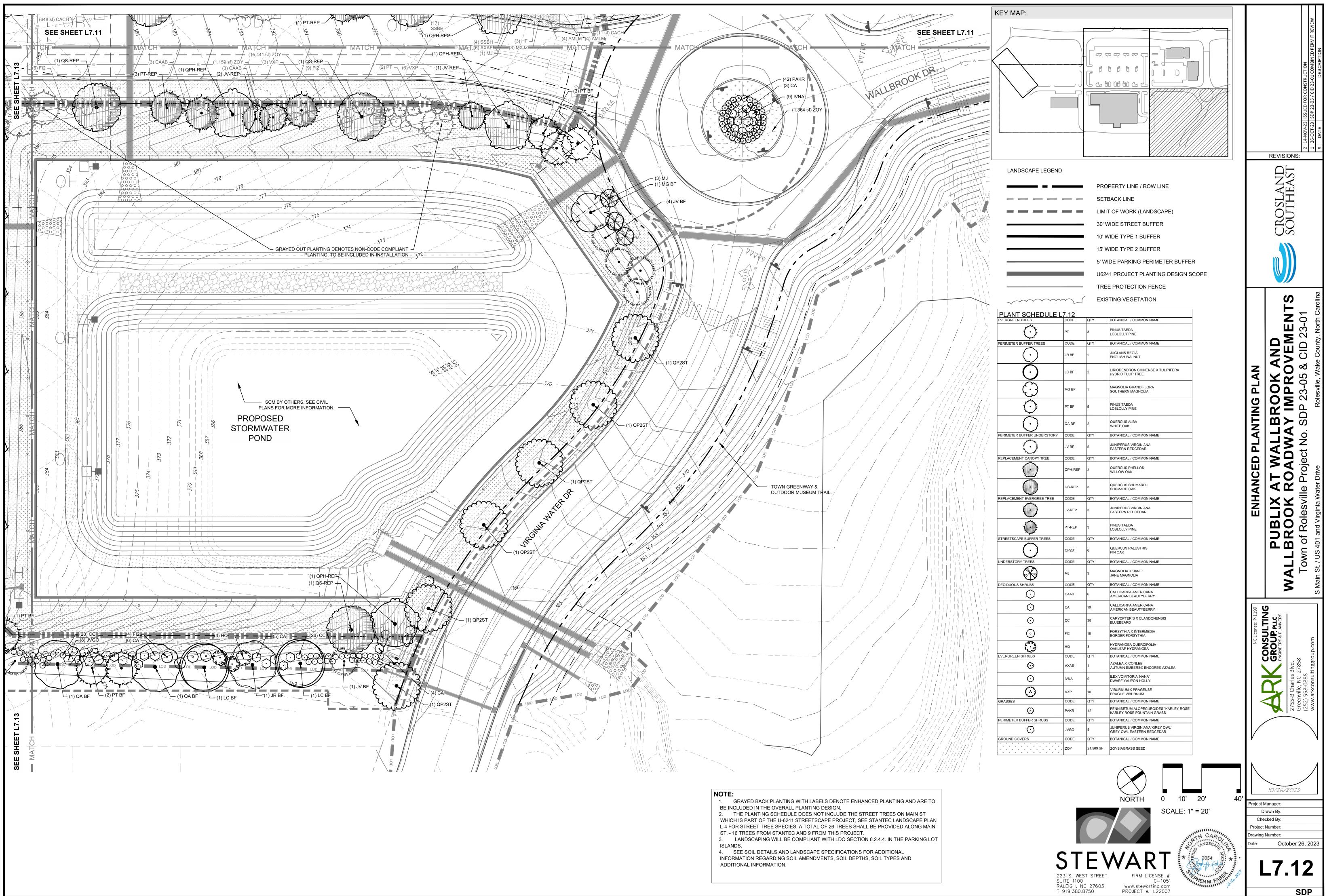


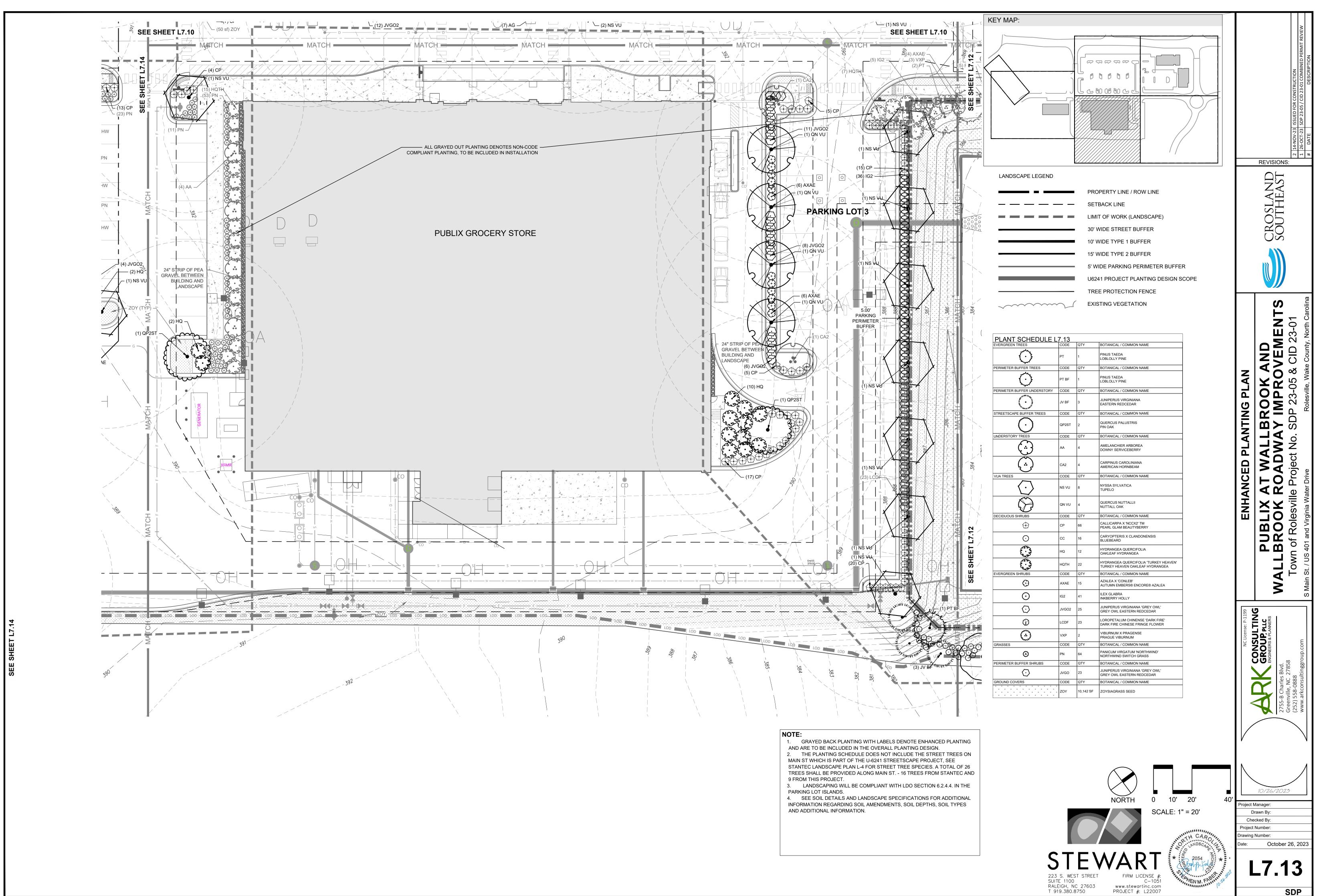


PLANT SCHEDULE I EVERGREEN TREES	_7.11 CODE	QTY	BOTANICAL / COMMON
$\widehat{(\cdot)}$	РТ	3	PINUS TAEDA LOBLOLLY PINE
	CODE	QTY	BOTANICAL / COMMON
	QPH-REP	2	QUERCUS PHELLOS WILLOW OAK
	QS-REP	2	QUERCUS SHUMARDII SHUMARD OAK
REPLACEMENT EVERGREE TREE	CODE	QTY	BOTANICAL / COMMON
STREETSCAPE BUFFER TREES	PT-REP CODE	2 QTY	PINUS TAEDA LOBLOLLY PINE BOTANICAL / COMMON
	QP2ST	5	QUERCUS PALUSTRIS
UNDERSTORY TREES	CODE	QTY	PIN OAK BOTANICAL / COMMON
	AA	5	AMELANCHIER ARBORI DOWNY SERVICEBERR
	CA2	3	CARPINUS CAROLINIAN AMERICAN HORNBEAM
\bigcirc	HVWH	2	HAMAMELIS VIRGINIAN COMMON WITCH HAZE
	MJ	3	MAGNOLIA X 'JANE' JANE MAGNOLIA
\odot	MXJZ	3	MAGNOLIA X 'JUDY ZUH JUDY ZUK MAGNOLIA
	CODE	QTY	BOTANICAL / COMMON
V		13	QUERCUS NUTTALLII NUTTALL OAK
	CODE	QTY 4	BOTANICAL / COMMON CALLICARPA AMERICAI AMERICAN BEAUTYBEF
 ()	СА	1	CALLICARPA AMERICAI AMERICAN BEAUTYBEF
≻	СР	20	CALLICARPA X 'NCCX2' PEARL GLAM BEAUTYB
<u>.</u>	сс	4	CARYOPTERIS X CLANI
<u></u>	FI2	6	FORSYTHIA X INTERME BORDER FORSYTHIA
\sim	HF	3	HYDRANGEA PANICULA
\odot	нw	14	HYDRANGEA QUERCIF
(2	НQTH	1	HYDRANGEA QUERCIF TURKEY HEAVEN OAKL
¥	IV	10	ITEA VIRGINICA 'HENR' HENRY'S GARNET SWE
\odot	JNWJ	29	JASMINUM NUDIFLORU WINTER JASMINE
0	RA VU	19	RHUS AROMATICA 'GRO GRO-LOW FRAGRANT S
	CODE AG	QTY 5	BOTANICAL / COMMON
 	AGML	18	GLOSSY ABELIA ABELIA X GRANDIFLOR MISS LEMON™ GLOSS
 ©	AXAE	45	AZALEA X 'CONLEB'
©	DXCB	18	DISTYLIUM X `BLDY02' CAST IN BRONZE® DIS
÷	IG2	3	ILEX GLABRA INKBERRY HOLLY
\bigcirc	IS	7	ILEX GLABRA 'SHAMRO SHAMROCK INKBERRY
\odot	JVGO2	28	JUNIPERUS VIRGINIAN GREY OWL EASTERN R
\odot	VP2	8	VIBURNUM X PRAGENS PRAGUE VIBURNUM
GRASSES	CODE MC	QTY 4	BOTANICAL / COMMON MUHLENBERGIA CAPILI PINK MUHLY GRASS
<u> </u>	PARH	22	PENNISETUM ALOPECU RED HEAD FOUNTAIN C
y y y y y y y y y y y y y y y y y y y	SS	32	SCHIZACHYRIUM SCOF
PERENNIALS	CODE	QTY	BOTANICAL / COMMON
	ED CODE	13 QTY	EUTROCHIUM DUBIUM JOE PYE WEED BOTANICAL / COMMON
	JVGO	18	JUNIPERUS VIRGINIAN, GREY OWL EASTERN R
VINES	CODE	QTY	BOTANICAL / COMMON PARTHENOCISSUS QUI
SHRUB AREAS	PQ CODE	1 QTY	VIRGINA CREEPER BOTANICAL / COMMON
GROUND COVERS	SSBH CODE	298 QTY	SCHIZACHYRIUM SCOF BLUE HEAVEN® LITTLE BOTANICAL / COMMON
	CODE	QTY 2,574 SF	BOTANICAL / COMMON CAREX CHEROKEENSIS CHEROKEE SEDGE
	ZOY	7,741 SF	ZOYSIAGRASS SEED
PERENNIALS	CODE	QTY 8	BOTANICAL / COMMON ACHILLEA MILLEFOLIUI LITTLE MOONSHINE YA
	CMAS	73	CENTAUREA MONTANA AMETHYST IN SNOW P
	EXCS	17	ECHINACEA X 'CHEYEN CHEYENNE SPIRIT COM
· / a) - / / a / / - / . (a 1) b / b / - / . /			i .







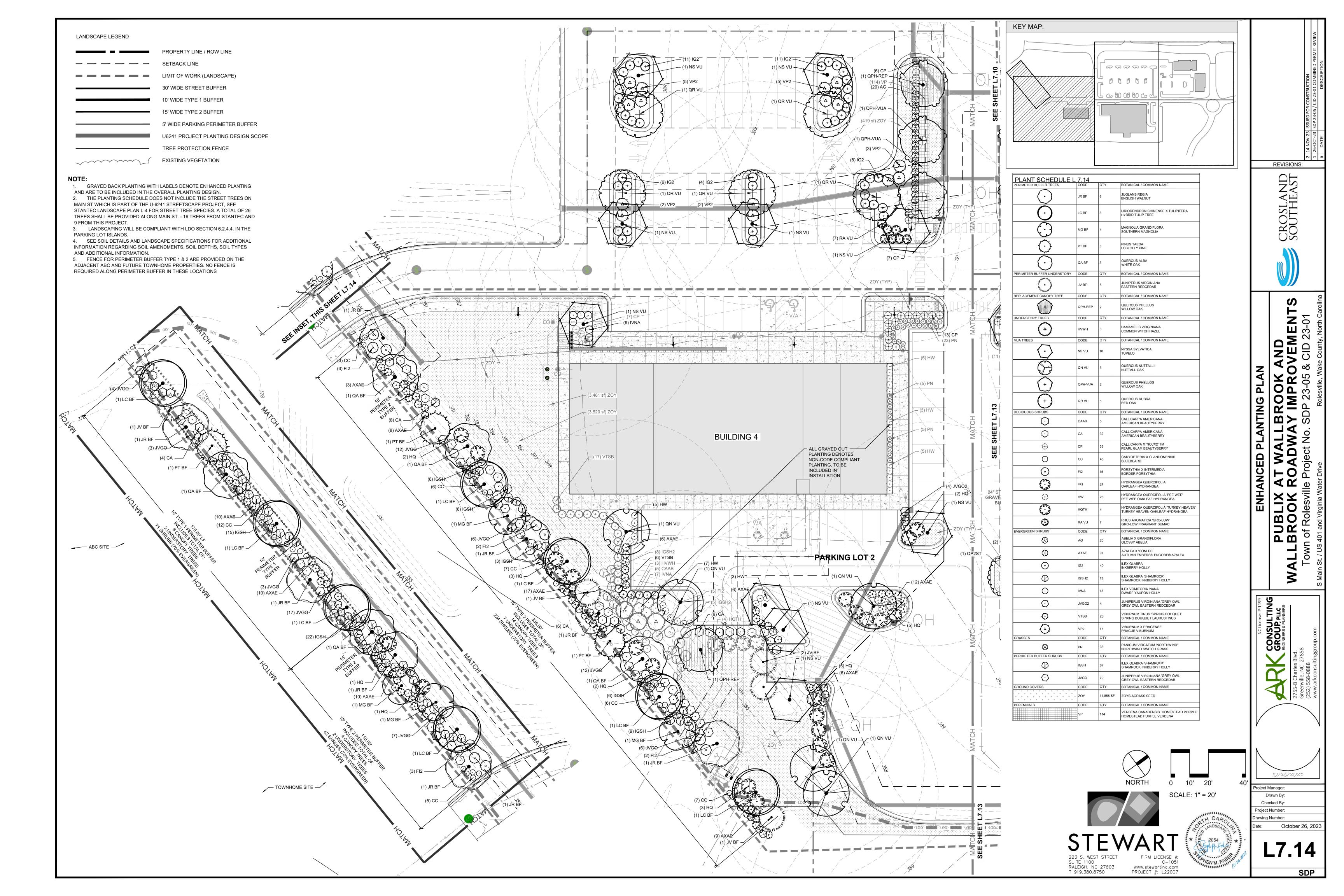


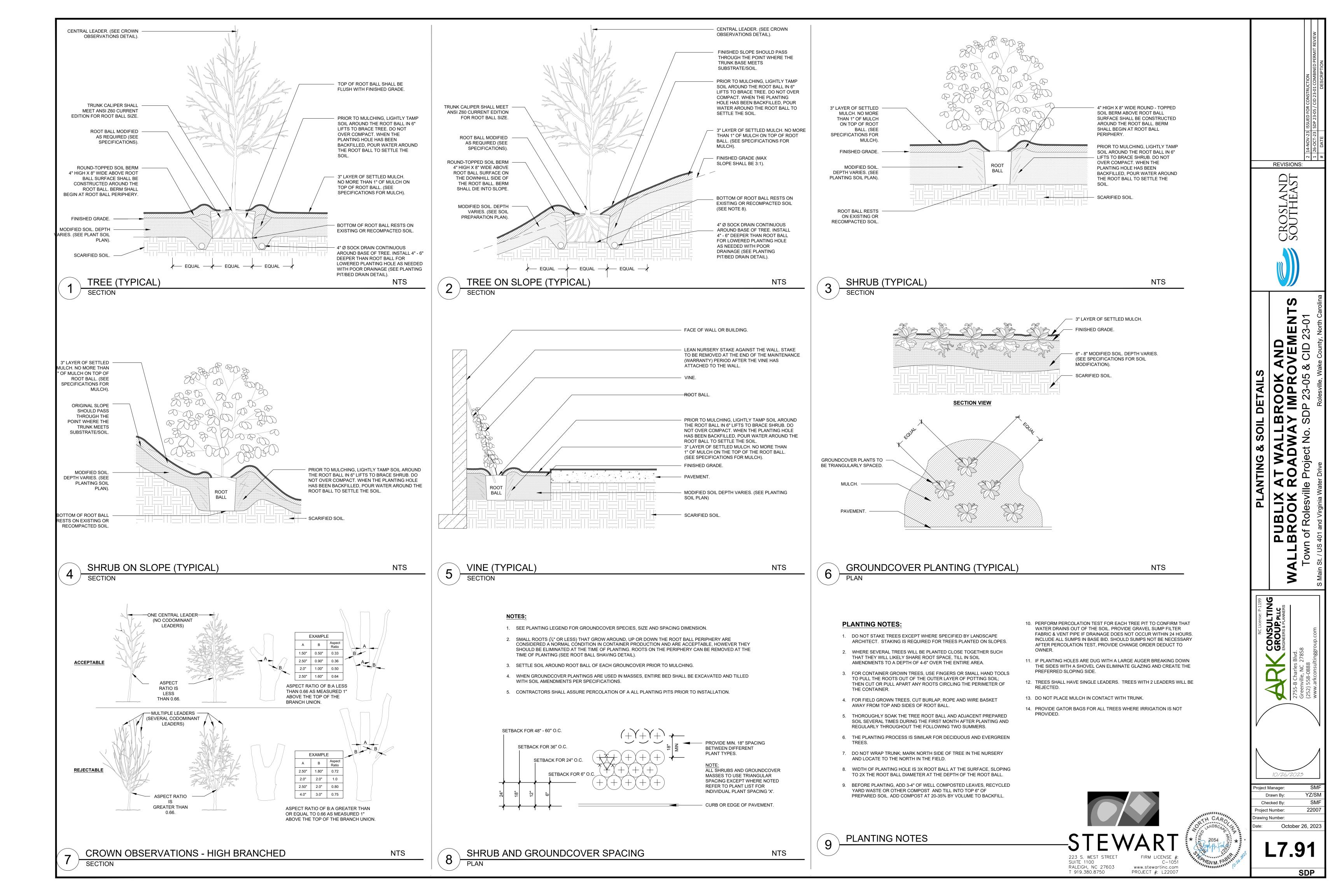
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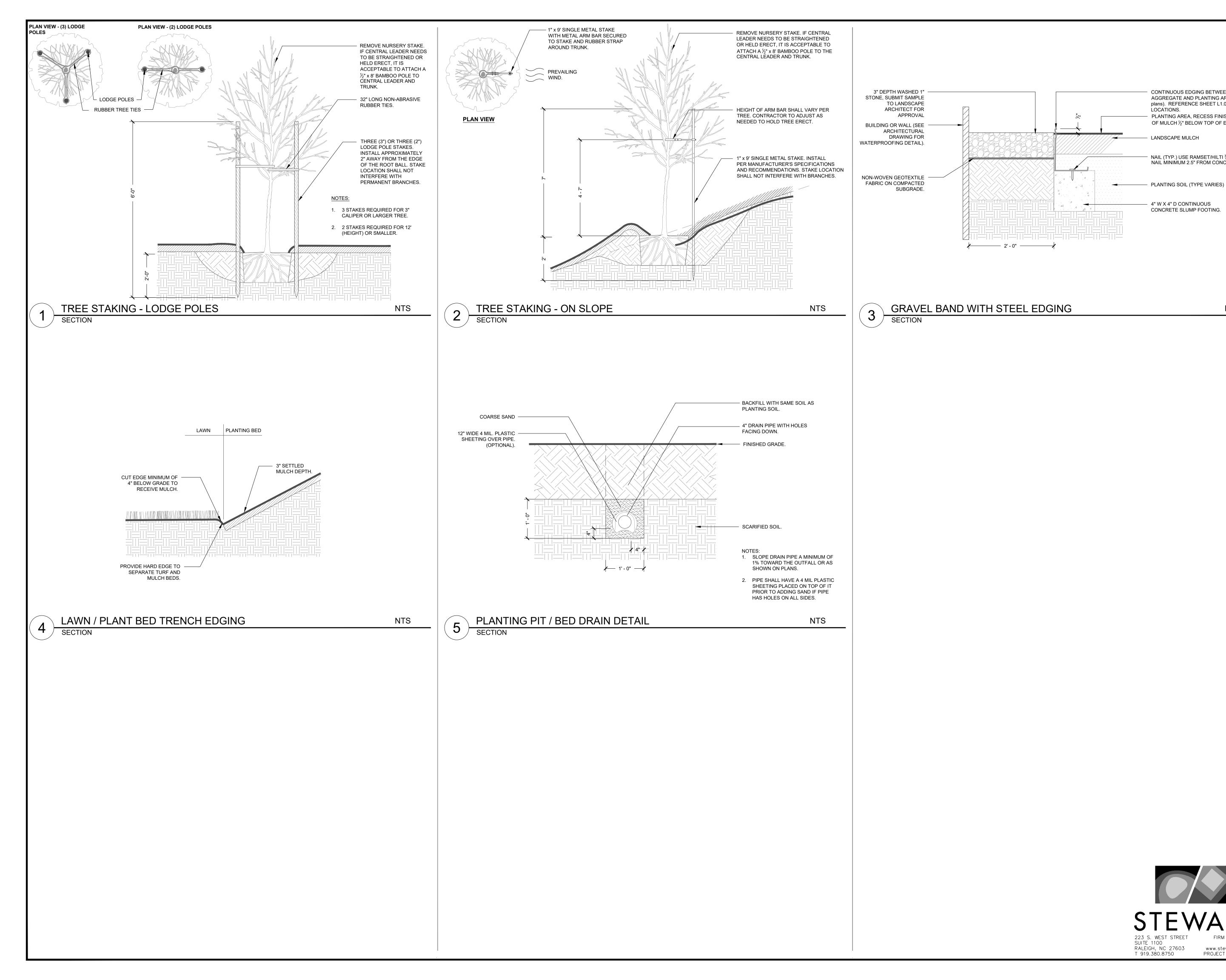
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CONTINUOUS EDGING BETWEEN AGGREGATE AND PLANTING AREA (See plans). REFERENCE SHEET L1.00 FOR LOCÁTIONS. PLANTING AREA, RECESS FINISHED GRADE OF MULCH ½" BELOW TOP OF EDGING.

LANDSCAPE MULCH

NAIL (TYP.) USE RAMSET/HILTI 3/4" - 1" NAIL MINIMUM 2.5" FROM CONCRETE EDGE.

4" W X 4" D CONTINUOUS

CONCRETE SLUMP FOOTING.

NTS

S AND DVEMEN1 & CID 23-01 **`O** ∞ S XX S AIL 01 DET. **○∑** [○] BR \square **≥**₹

REVISIONS:

CROSLAND Southeast

SOIL õ U Z PLANTIN R A A ille **PUBLIX LBROOK** wwn of Rolesvill Ó

3 CONSULTING GROUP, PLLC ENGINEERS & PLANNERS $\overline{}$ \triangleleft

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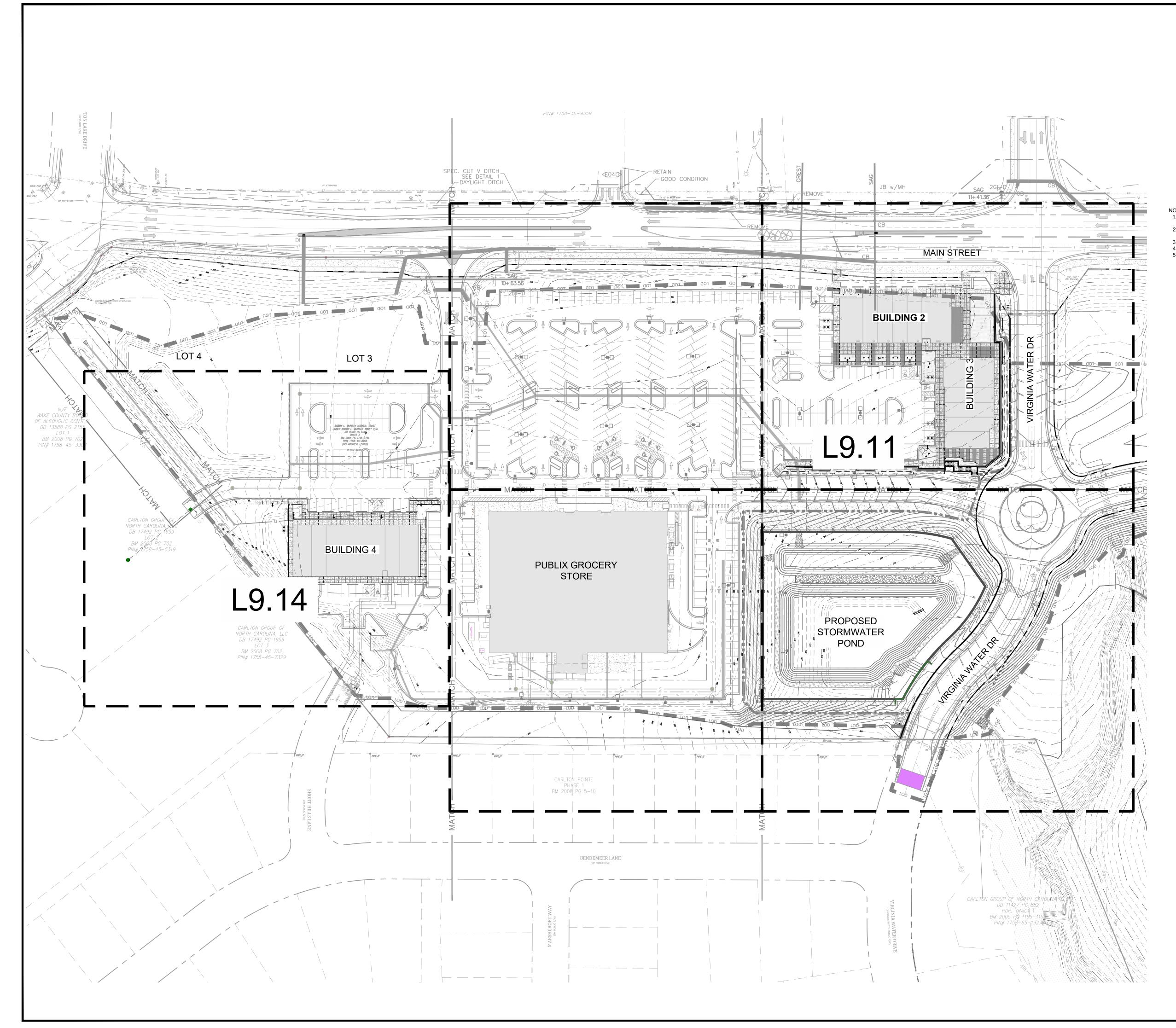
10/26/2023 Project Manager: Drawn By: Checked By:

Project Number: awing Number: October 26, 202

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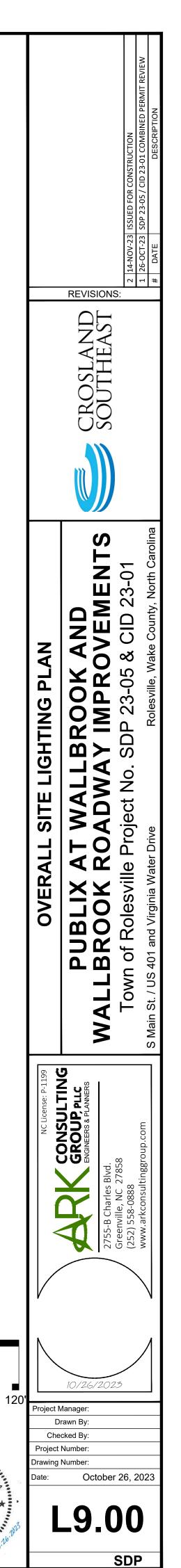
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PROJECT MONUMENT SIGNS BY OTHERS. SHOPS DRAWINGS TO BE REVIEWED BY LANDSCAPE ARCHITECT
 EXTERIOR LIGHTING PHOTOMETRIC DRAWING PART OF ARCHITECT'S DRAWING SET.

EXTERIOR BUILDING LIGHTING PER ARCHITECT.
 PARKING LOT LIGHTING BY OTHERS.
 TENANT STRING LIGHTS NOT SHOWN IN DRAWINGS PER OWNER/TENANT



30' 60'

SNM.

SCALE: 1" = 60'

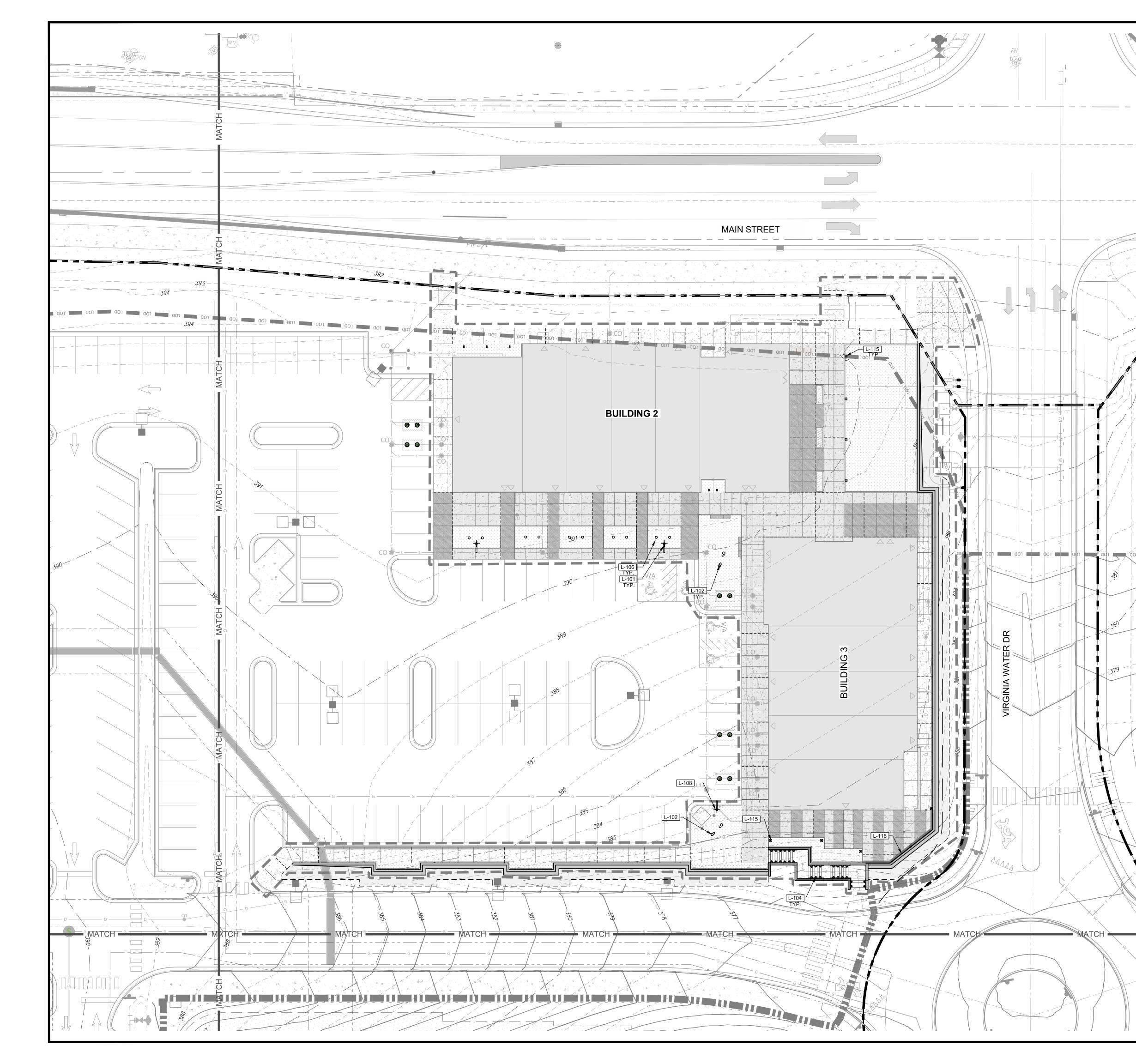
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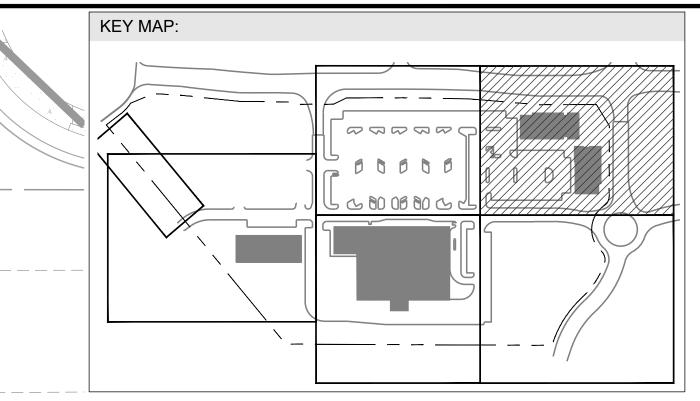
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FIRM LICENSE #: C-1051 www.stewartinc.com PROJECT #: L22007

STEWAR

223 S. WEST STREET SUITE 1100 RALEIGH, NC 27603 T 919.380.8750





	LIGHT	ING SCHEDULE	
	SYMBOL	DESCRIPTION	DETAIL
	L-101	SPECIALTY LIGHT FIXTURE	3/L9.91
	L-102	STAKE MOUNTED TREE UPLIGHT	6/L9.91
	L-104	STEP LIGHT	2/L9.91
	L-106	GROUND LIGHT	5/L9.91
	L-115	SQUARE ALUMINUM POLE	7/L9.91
-	L-116	CONCEALED ROPE LIGHT	4/L9.91

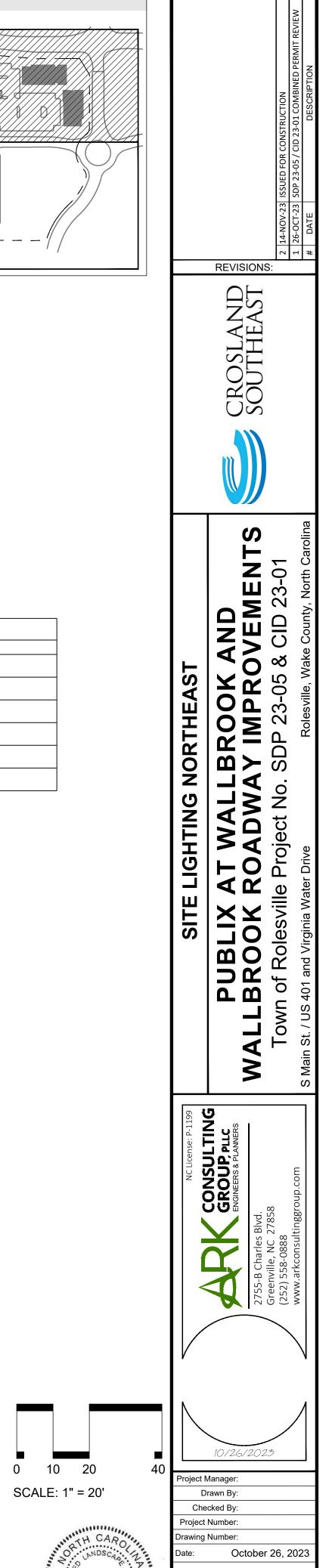
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FIRM LICENSE #: C-1051 www.stewartinc.com PROJECT #: L22007

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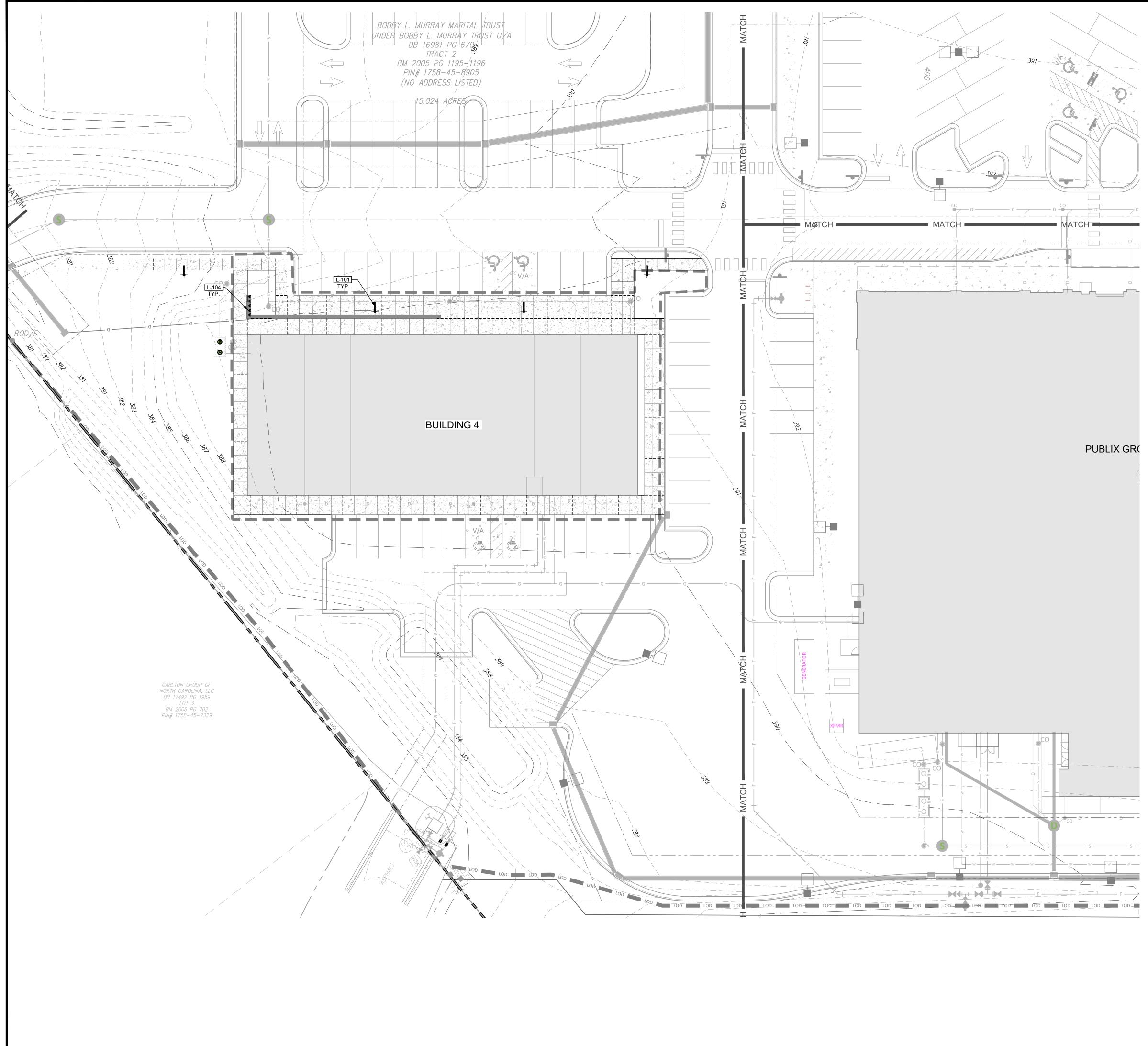
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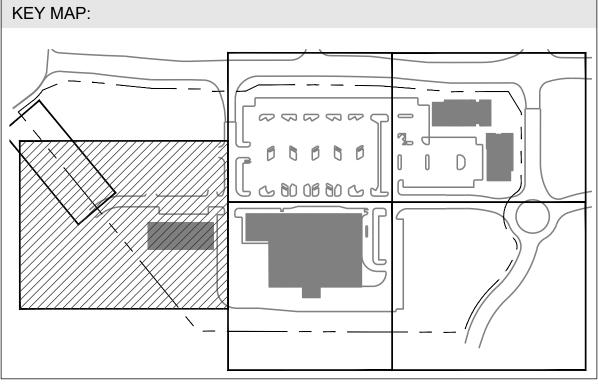
223 S. WEST STREET SUITE 1100 RALEIGH, NC 27603 T 919.380.8750



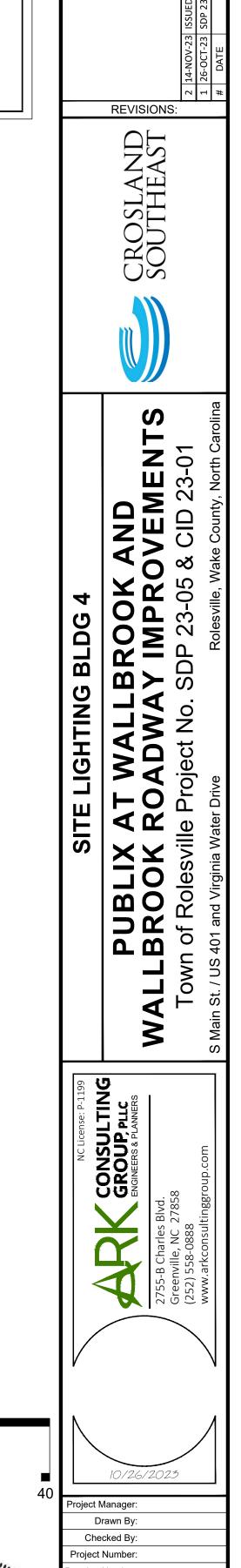
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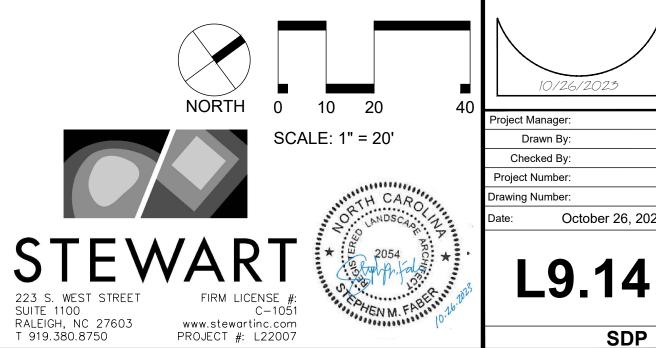


LIGHTING SCHEDULE							
DESCRIPTION	DETAIL						
SPECIALTY LIGHT FIXTURE	3/L9.91						
STAKE MOUNTED TREE UPLIGHT	6/L9.91						
STEP LIGHT	2/L9.91						
GROUND LIGHT	5/L9.91						
SQUARE ALUMINUM POLE	7/L9.91						
CONCEALED ROPE LIGHT	4/L9.91						
	DESCRIPTION SPECIALTY LIGHT FIXTURE STAKE MOUNTED TREE UPLIGHT STEP LIGHT GROUND LIGHT SQUARE ALUMINUM POLE						



October 26, 2023

SDP



ERCO	Axis Walkligl
Phase out 2021	
33733.023 Graphit m LED 1.7W 120V AC 64lm 3000K warm white Version 2 This product range will be discontin- ued on 01.01.2021.	Product description Housing: corrosion-resistant, cast aluminum, No-rinse surface treatment. Graphit m, double powder-coated. Mounting bracket: polymer. Clamp extension 9/32" - 25/32" / 7-20mm. 2 cable entries. Through-wiring possible. 3-pole terminal block. Asymmetric reflector lens system: aluminum, silver anodized. Optimized screening for the LEDs ensures no direct light emission. LED module. Cover frame with Softec lens: corrosion- resistant cast aluminum, graphit m double powder-coated. Suitable for wet location (IP65): dust- proof and water jet-proof. Weight 1.87lbs / 0.85kg
Technical data Luminous flux of the luminaire Connected load Luminaire efficacy Color deviation Color rendition index Lumen maintenance (LED manufacturer specifications) LED failure rate LMF For your regional contact in the ERCO Sales network click here www.erco.com/contact © ERCO GmbH 2021	16lm 2.0W 8lm/W -7 L70/B50 ≤50000h 0.1% ≤50000h E
STEP LIGHT 1" = 1'-0"	

Omnio OM2 Spike Mount

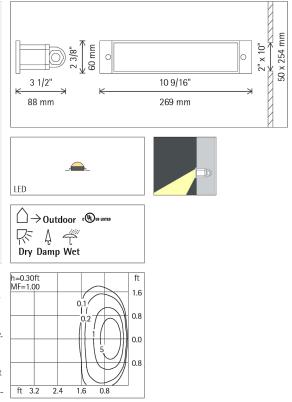
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ERCO

Tesis In-ground luminaire

			1/4" 86mm 9 [1] 10		and with app app colo reta	LS411COB uses 'Chip on Board' te efficiency in one compact packa the traditional 'lamp and reflecto ications requiring wider distribut ications where sharp cutoff is n ur temperatures and optical / ins the versatility of its discrete sting delivered lumens.	age. The high lumen or' optics makes the L tion such as landscap not desired. Featuring shielding combinatio	density, combi S411COB idea e lighting or o g a wide rang ns, the LS4110
				Performance				
		LED		Static White & Colour	Lumen Output (Im)	Efficacy (Im/W)	Peak Intens	ity (cd)
				2,700 K (80 CRI)	-	-	-	
				2,700 K (90 CRI)	-	-	-	
		伏 4 一 Dry Damp Wet		- 3,000 K (80 CRI)	1,414	58	6,681	
		,		4,000 K (80 CRI)	1,488	58	7,184	1
35132.023 LED 12W 1260Im 3000K warm white	Mounting in hollow floor: mounting kit to be ordered separately.	4000 cd		5,000 K (80 CRI)	1,494	60	7,207	
-10V dimmable ersion 9 ize 5	Dimming with external dimmers possible (0–10V). Suitable for wet location (IP68): dust-	150° 150°			ues are based on a 20W luminaire w	ith 20° lens without snoot.		
Covered mounting detail Spherolit lens, flood	proof. Weight 12.06lbs / 5.47kg Version with 3000K CRI 97 or 2700K,			Beam Angles	20°, 40°, 60°			
Product description lousing: polymer, black.	3500K, 4000K CRI 92 available on request.	120°		Electrical				
Control gear 120V/277V, 60Hz, dimmable. Longitudinally watertight					2014/			
cable 5xAWG14, L 31 1/2" / 800mm. LED module: high-power LEDs on				LED Power	20W			
metal-core PCB. Collimating lens made of optical polymer. 0–30° tiltable, rotat-		h(ft) E(fc) D 27°		Consumption	25.6W (nominal)			
able through 360°. Optical cut-off 40° from horizontal. Screw-fastened cover ring with flush		15 17 7'2" 12 27 5'9" 9 48 4'4"		Input Voltage Physical	Mains Voltage 100-277	7 AC, 50/60HZ		
afety glass: stainless steel. Safety glass: //16" / 15mm, clear.		6 107 2'11" 3 429 1'5"		Housing	I M20 die cast marine gra	de powder coated aluminium		
stallation with separate connection eeve.				Installation	Concrete anchor			
lounting in recessed housing: can be riven over in vehicles with pneumatic rres. Load 11240lb.wt / 50kN.				Ambient Operating Temperature	-20°C to 50°C (-4°F to 122	°F)		
chnical data				Surface Temperature	≤65°C (≤149°F) HumanTo	ıch™ Compliant		
uminous flux of the luminaire Connected load uminaire efficacy	960lm 14.0W 69lm/W			Certification & Corr	pliance			
Color deviation Color rendition index	1.5 SDCM CRI 92			IP Rating	IP67			
umen maintenance (LED manufacturer pecifications) ED failure rate MF				Certifications	CE, ETL			
Temperature on the cover glass For your regional contact in the ERCO Sales network click here www.erco.com/contact	90°F / 32°C		Technical region: 120V/60Hz, 277V/ 60Hz We reserve the right to make technical and design changes. Edition: 10.09.2020 Current version under			ile e e him		.@.,
PERCO GmbH 2020			www.erco.com/35132.023 1/3		ppticlear™ microant			Intertek
				See LUMAS	SCAPE www.luma	scape.com	and specifications are subject	LS411COB
				V LUMAS	CAPE www.luma	scape.com		

ht



Motive Area Light Spec Sheet | AJ500

Round pole is tapered 4" to 3" and manufactured from seamless 6061

wall thickness is 0.125". Flush mounted hand hole cover includes two

Distribution Type

Type IV

Type IV

Type V

Type V

Lambertian

aluminum tubing and heat treated to produce a T6 temper. Nominal

magni-coated fasteners. Pole is topped with standard dimension

Pole

2-3/8" dia x 4" tenon.

Model

AJ500-T4-40F

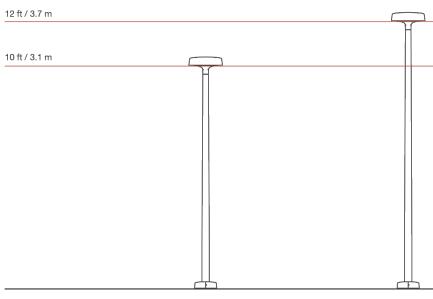
AJ500-T4-60F

AJ500-T5-80F

AJ500-T5-120F

AJ500-LB-80F

This data is subject to change.



Drive Current

400mA

600mA

800mA

1200mA

800mA

landscapeform

12 ft / 3.7 m 10 ft / 3.1 m

BUG Rating

B1-U0-G1

B1-U0-G1

B2-U0-G1

B2-U0-G1

B1-U0-G1

Base plate is cast aluminum A356 allov heat treated to a T6 temper.

at grade with galvanized steel anchor bolts. Template and anchor

Delivered Lumens System Wattage

hardware included.

1362

1973

2761

3987

2487

Base cover is a two-piece cast aluminum cover plate. Pole is mounted

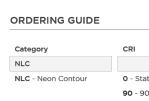
16.0

24.1

31.7

47.9

31.7



RoHS

NEON CONTOUR

bold statements

Assembled in USA

Museums

Applications: Commercial

Entertainment

Healthcare

Power Feed Direction E E - End Feed

Mounting	
. Mounting Clips	
Part #: NLCMOUNTCL	_IP)



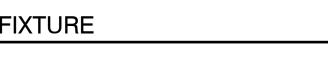
Technical region: 120V/60Hz We reserve the right to make technical and design changes. Edition: 10.09.2020 Current version under www.erco.com/33733.023

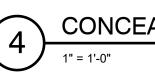
LS411COB

Revised February 16, 2022 | Landscape Forms Inc. | 800.521.2546 | F 269.381.3455 | 7800 E. Michigan Ave., Kalamazoo, MI 49048



CL-SSA





Square Straight Aluminum

<u>Pole Shaft</u>

Constructed of seamless extruded 6063 Aluminum Alloy tube per ASTM B221 requirements. Poles have Ground Lug welded inside behind hand hole. Hand Hole is 3"x5" and has a reinforced frame.

Base Plate

4-Bolt Aluminum base flange, 3/4" thick plate for poles up to 20ft High and 1" thick for poles 21ft of height and over.

Powder Coating

All poles are sandblast prior to painting, Powder coat is applied to a minimum of 3 millimeters and baked at 400 °F temperature. CL-SSA comes with (3) three year warranty.

Anchor Bolts

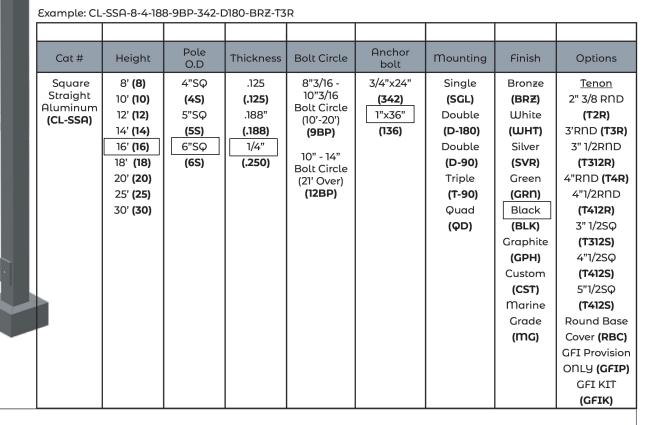
Anchor bolt Kit includes 4 L-Shaped Hot Dip Galvanized Bolts, each anchor bolt come with two galvanized nuts and washer per bolt, Anchor bolts meet or exceed a minimum of 36,000 PSI and conform to ASTM F1554 grade 36.



Base Cover, Hand Hole Cover and Pole Cap

CL-SSA come with Removable Pole Cap and Aluminum Base Cover Powder Coated to match Pole. Cast Hand Hole Cover are provided with Internal bridge support and are powder coated to match pole.

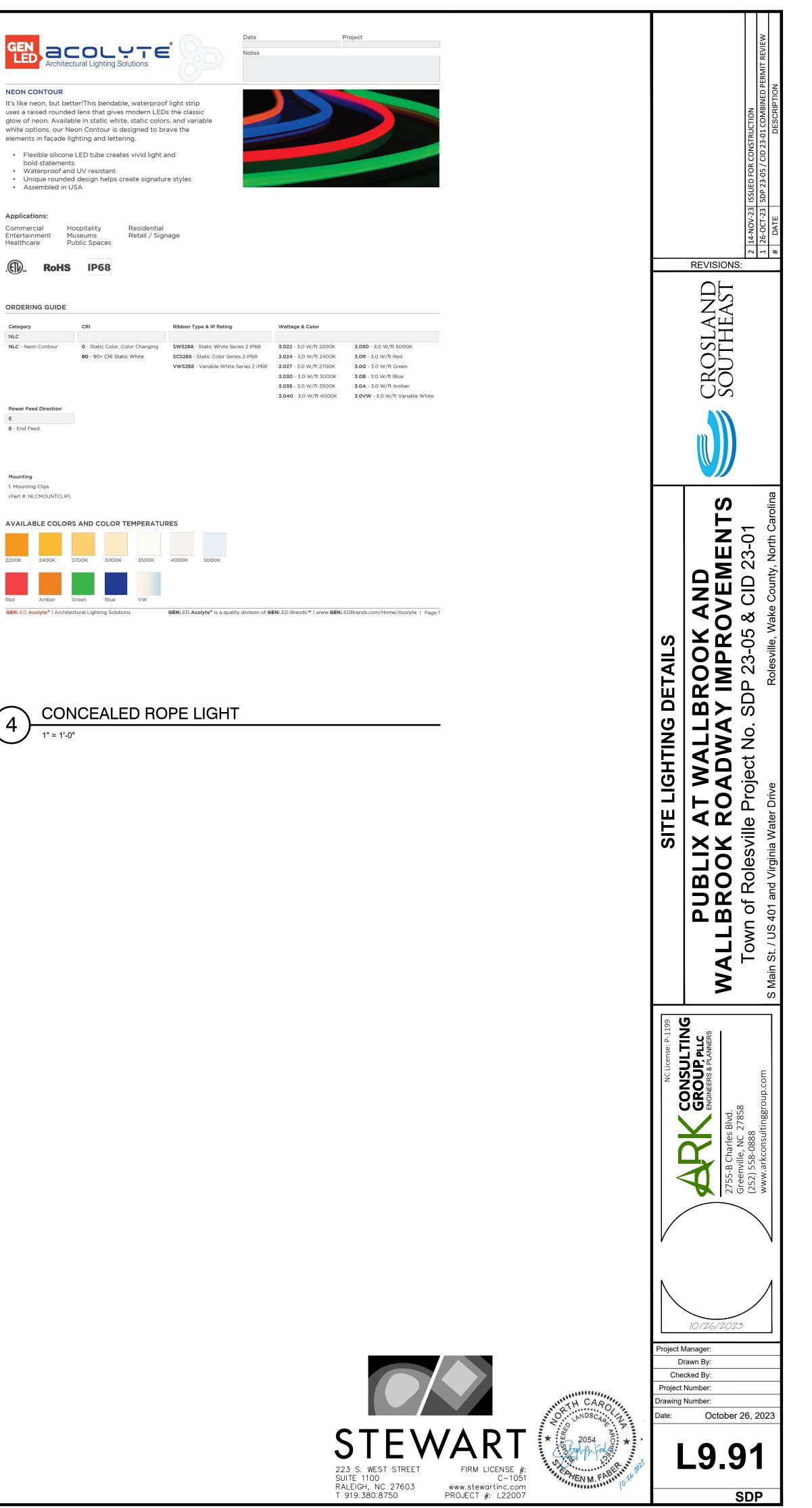


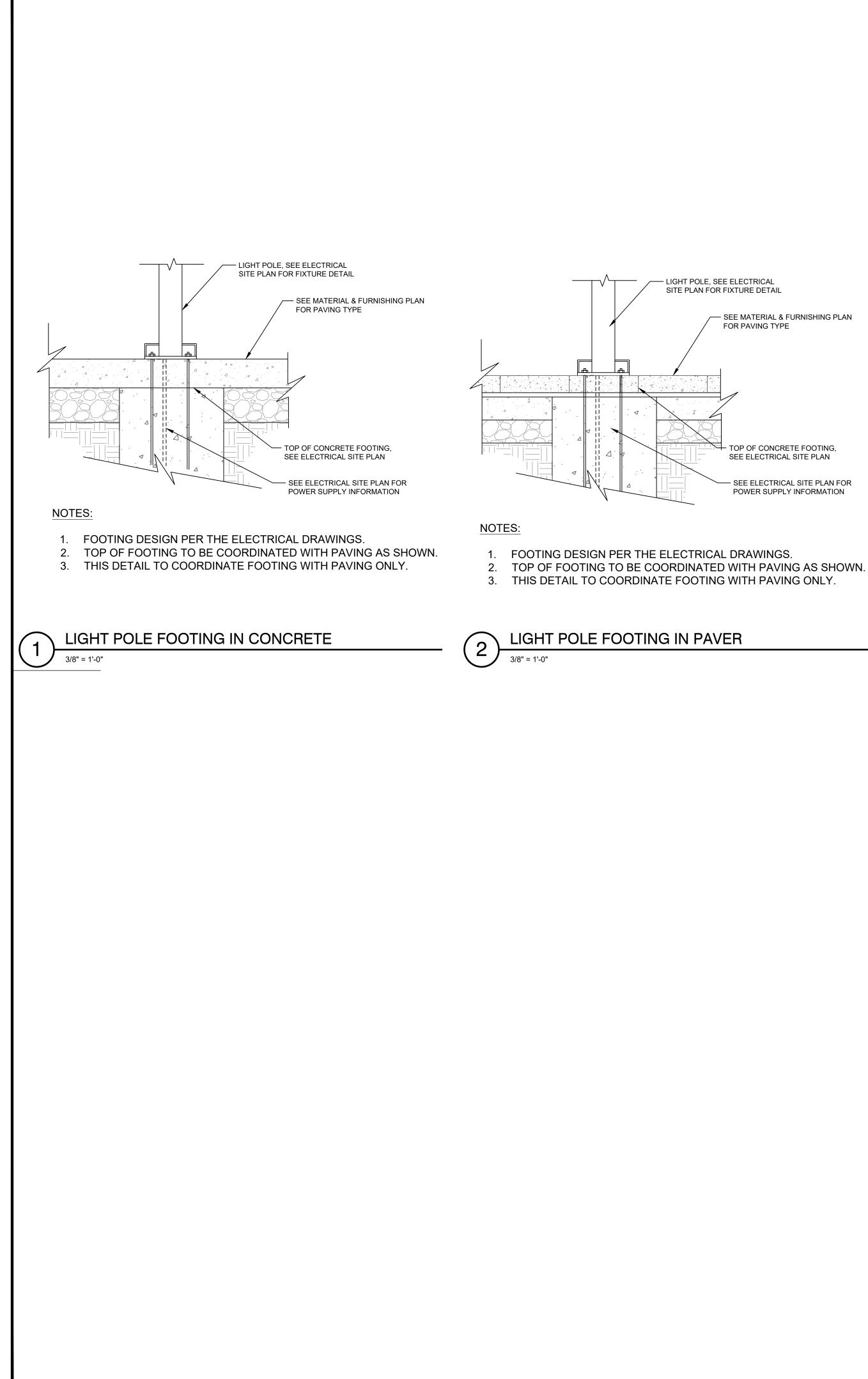


E LIGHT

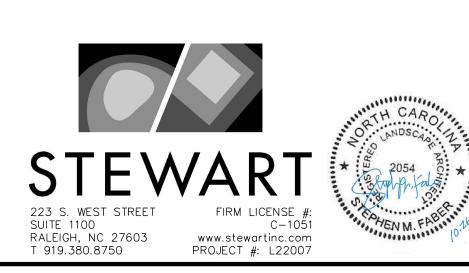
SQUARE ALUMINUM POLE

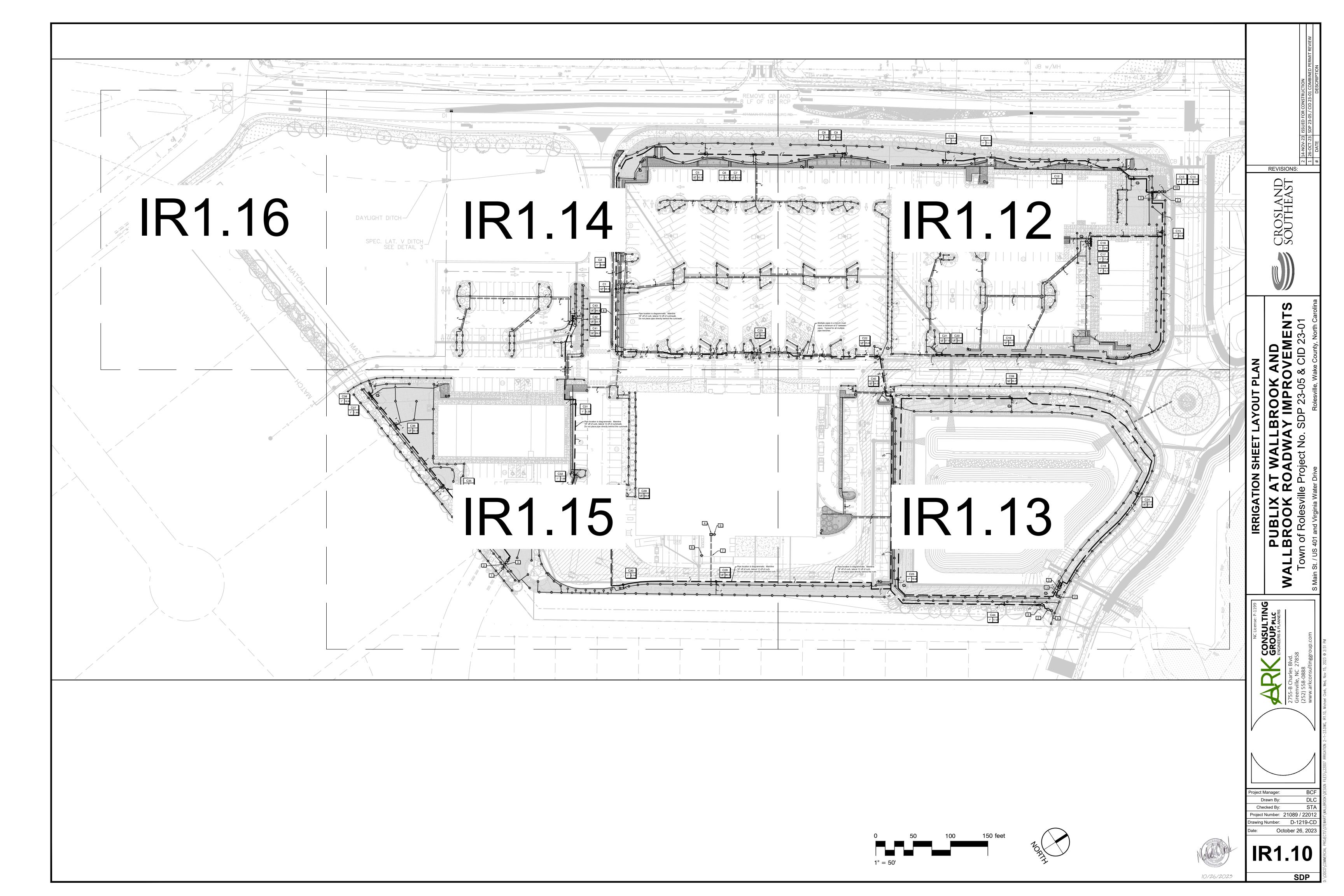
7 1" = 1'-0"





		CROSLAND Mathematical SOUTHEAST 1 2 14-NOV-23 1 26-OCT-23 2 14-NOV-23 4 DATE	UALE
	SITE LIGHTING DETAILS	PUBLIX AT WALLBROOK AND WALLBROOK ROADWAY IMPROVEMENTS Town of Rolesville Project No. SDP 23-05 & CID 23-01 S Main St. / US 401 and Virginia Water Drive Rolesville, Wake County, North Carolina	
	NC License: P-1199	2755-B Charles Blvd. Greenville, NC 27858 (252) 558-0888 www.arkconsultinggroup.com	
8	Che	rawn By: cked By: Number:	
p13		_9.92	
		SDP	





CRITICAL ANALYSIS

Generated:	2023-09-20 15:44
P.O.C. NUMBER: M	
Water Source Information:	Irrigation Meter
	0
FLOW AVAILABLE	
Water Meter Size:	2"
Flow Available	77.18 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	65 PSI
Elevation Change:	5.00 ft
Service Line Size:	2"
Length of Service Line:	20 ft
Pressure Available:	60 PSI
DESIGN ANALYSIS	
Maximum Station Flow:	33.7 GPM
Flow Available at POC:	77.18 GPM
Residual Flow Available:	43.49 GPM
	000
Critical Station:	C39
Design Pressure: Friction Loss:	30 PSI
	4.19 PSI 0.42 PSI
Fittings Loss: Elevation Loss:	0.42 PSI 0 PSI
Loss through Valve:	3.62 PSI
Pressure Req. at Critical Station:	38.2 PSI
Loss for Fittings:	0.24 PSI
Loss for Main Line:	2.36 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	12.1 PSI
Loss for Master Valve:	0.96 PSI
Loss for Water Meter:	1.72 PSI
Critical Station Pressure at POC:	55.6 PSI
Pressure Available:	60 PSI
Residual Pressure Available:	4.36 PSI

CRITICAL ANALYSIS

Generated:	2023-10-20 09:29
P.O.C. NUMBER: M2 Water Source Information:	Irrigation Meter
FLOW AVAILABLE Water Meter Size: Flow Available	2" 77.18 GPM
PRESSURE AVAILABLE Static Pressure at POC: Elevation Change: Service Line Size: Length of Service Line: Pressure Available:	65 PSI 5.00 ft 2" 20 ft 60 PSI
DESIGN ANALYSIS Maximum Station Flow: Flow Available at POC: Residual Flow Available:	42.99 GPM 77.18 GPM 34.19 GPM
Critical Station: Design Pressure: Friction Loss: Fittings Loss: Elevation Loss: Loss through Valve: Pressure Req. at Critical Station: Loss for Fittings: Loss for Main Line: Loss for POC to Valve Elevation: Loss for Backflow: Loss for Backflow: Loss for Master Valve: Loss for Master Valve: Loss for Water Meter: Critical Station Pressure at POC: Pressure Available: Residual Pressure Available:	C7 30 PSI 2.84 PSI 0.28 PSI 0 PSI 3.53 PSI 36.6 PSI 0.59 PSI 5.93 PSI 0 PSI 12.1 PSI 1.94 PSI 1.45 PSI 58.7 PSI 60 PSI 1.34 PSI

CRITICAL ANALYSIS

Generated:	2023-10-20 09:39
P.O.C. NUMBER: M3 Water Source Information:	Irrigation Meter
FLOW AVAILABLE Water Meter Size: Flow Available	2" 77.18 GPM
PRESSURE AVAILABLE Static Pressure at POC: Elevation Change: Service Line Size: Length of Service Line: Pressure Available:	65 PSI 5.00 ft 2" 20 ft 60 PSI
DESIGN ANALYSIS Maximum Station Flow: Flow Available at POC: Residual Flow Available:	24.46 GPM 77.18 GPM 52.72 GPM
Critical Station: Design Pressure: Friction Loss: Fittings Loss: Elevation Loss: Loss through Valve: Pressure Req. at Critical Station: Loss for Fittings: Loss for Fittings: Loss for Main Line: Loss for POC to Valve Elevation: Loss for POC to Valve Elevation: Loss for Backflow: Loss for Master Valve: Loss for Master Valve: Loss for Water Meter: Critical Station Pressure at POC: Pressure Available: Residual Pressure Available:	C21 30 PSI 3 PSI 0.3 PSI 0 PSI 3.77 PSI 37.1 PSI 0.23 PSI 2.25 PSI 0 PSI 12.2 PSI 0.7 PSI 0.58 PSI 53.0 PSI 60 PSI

CONTRACTOR'S QUALIFICATION REQUIREMENTS

1. IRRIGATION CONTRACTOR TO BE STATE LICENSED, IF REQUIRED, AND A IRRIGATION ASSOCIATION CERTIFIED IRRIGATION CONTRACTOR IN GOOD STANDING. PROVIDE CIC CERTIFICATE WITH SUBMITTALS. 2. CONTRACTOR MUST HAVE COMPLETED THE MANUFACTURERS 2-WIRE CONSTRUCTION TRAINING COURSE AND PROVIDE CERTIFICATE OF COMPLETION AS PART OF THE SUBMITTALS. 3. CONTRACTOR MUST HAVE COMPLETED THE MANUFACTURERS 2-WIRE

CONTROLLER PROGRAMMING COURSE AND PROVIDE CERTIFICATE OF COMPLETION AS PART OF THE SUBMITTALS. 4. CONTRACTOR THAT CANNOT PROVIDE ITEMS 1-3 ABOVE SHOULD NOT BE ALLOWED TO CONSTRUCT THE IRRIGATION SYSTEM.

DRIP ZONE NOTES

1. IT IS IRRIGATION CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT EACH PLANT IS WITHIN THE DRIPLINE WETTED PATTERN ON NO LESS THAN 2 SIDES. 2. DRIPLINE TO BE LAID OUT AND INSTALLED AS DETAIL EXAMPLES. 3. DRIPLINE TO BE INSTALLED IN GRID FASHION WITH TUBING ON 18" CENTERS, ELBOWS AND TEES ARE TO BE USED FOR CHANGES IN DIRECTION, LOOPING OF DRIPLINE IS NOT ACCEPTABLE.

4. DRIPLINE IS TO BE INSTALLED, TESTED AND INSPECTED TO ENSURE EACH EMITTER FUNCTIONS PROPERLY PRIOR TO COVERING WITH MULCH. 5. ALL DRIPLINE SUPPLY PIPING TO BE CL 200 PVC.

6. ALL PIPING WITHIN A DRIP ZONE THAT IS UNDER THE HARDSCAPE TO BE CL 200 PVC.

7. DRIPLINE TO BE STAKED DOWN EVERY 3' AND WITHIN 1' OF ALL FITTING OUTLETS.

8. ALL FLUSH VALVES ARE TO BE INSPECTED FOR PROPER OPERATION. 9. IRRIGATION CONTRACTOR TO MEET WITH DRIP COMPONENT MANUFACTURERS REPRESENTATIVE AND OWNER'S REPRESENTATIVE ON SITE PRIOR TO CONSTRUCTION TO REVIEW DRIP COMPONENT CONSTRUCTION, OPERATION AND MAINTENANCE.

CONTROLLER INSTALLATION NOTES

1. IRRIGATION CONTRACTOR TO COORDINATE EXACT LOCATION OF CONTROLLER WITH OWNER'S REPRESENTATIVE.

2. PROVIDE 120VAC 20 AMP POWER TO JUNCTION BOX AT CONTROLLER LOCATION. 3. IRRIGATION CONTRACTOR TO HARD WIRE CONTROLLER TO POWER

SUPPLY AS PER PREVAILING CODE. 4. CONTROLLER TO BE SECURELY ATTACHED TO THE WALL USING

METALLIC FASTENERS MADE FOR WALL TYPE. 5. ALL IRRIGATION CONTROL WIRE ABOVE GRADE TO BE ENCASED IN PVC

ELECTRICAL CONDUIT. 6. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR ALL POTENTIAL WALL PENETRATIONS AND THE SEALING OF THOSE PENETRATIONS.

7. CONTROLLER TO BE GROUNDED AS PER MANUFACTURERS RECOMMENDATIONS.

TWO WIRE CONTROL SYSTEM NOTES

1. ALL DECODER WIRE SPLICE CONNECTORS TO BE 3M DBR\Y-6 OR BETTER. 2. ALL DECODER TO VALVE SOLENOID SPLICE CONNECTORS TO BE 3M DBR\Y-6 OR BETTER

3. ALL GROUNDING POINTS TO HAVE RAIN BIRD LSP-01 LIGHTNING ARRESTOR INSTALLED INLINE AS PER MANUFACTURER'S REQUIREMENTS AND INSTALLED AS PER DETAIL.

4. ALL CONTROL SYSTEM PRODUCTS TO BE INSTALLED AND OPERATED AS PER THE MANUFACTURER'S RECOMMENDATIONS AND OR REQUIREMENTS.

5. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR OBTAINING 2-WIRE

INSTALLATION AND PROGRAMMING TRAINING PRIOR TO PROJECT START, PROVIDE CERTIFICATE OF COMPLETION OF THE TRAINING AS PART OF THE SUBMITTAL PROCESS.

6. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR TRAINING OWNERS STAFF, AS NEEDED, ON THE OPERATION AND MAINTENANCE OF THE CONTROL SYSTEM. 7. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR COMPLETE PROGRAMMING AND OPERATION OF THE CONTROL SYSTEM FOR 6 MONTHS FROM THE DAY THE CONTROLLER BECOMES FUNCTIONAL. CONTRACTOR TO PROVIDE THE OWNERS REPRESENTATIVE A COMPUTER SPREAD SHEET THAT SHOWS EACH PROGRAM, OPERATIONAL DAYS AND RUN TIMES PER ZONE.

RAIN BIRD IQ4 REMOTE ACCESS NOTES

1. PROVIDE 3 YEAR SUBSCRIPTION, FOR THE OWNER, TO THE RAIN BIRD IQ4 REMOTE ACCESS CLOUD BASED SYSTEM.

2. PROVIDE 3 YEAR CELL MODEM DATA PLAN FOR IQ4 ACCESS. 2. FULLY SET UP IQ4 TO ACCESS THE CONTROLLER AND ALLOW FOR ALL CONTROL SYSTEM ALERTS, CONTROLLER PROGRAMING, FLOW MANAGMENT, AUTOMATED ET/WEATHER DOWNLOAD. AND PROGRAM SET UP.

3. PROVIDE A MINIMUM OF 4 HOURS OF RAIN BIRD IQ4 MANUFACTURERS TRAINING FOR THE OWNERS REPRESENTATIVES.

CRITICAL ANALYSIS

Generated:	2023-10-20 09:21
P.O.C. NUMBER: M4 Water Source Information:	Irrigation Meter
FLOW AVAILABLE Water Meter Size: Flow Available	2" 77.18 GPM
PRESSURE AVAILABLE Static Pressure at POC: Elevation Change: Service Line Size: Length of Service Line: Pressure Available:	65 PSI 5.00 ft 2" <u>20 ft</u> 60 PSI
DESIGN ANALYSIS Maximum Station Flow: Flow Available at POC: Residual Flow Available:	35.67 GPM 77.18 GPM 41.51 GPM
Critical Station: Design Pressure: Friction Loss: Fittings Loss: Elevation Loss: Loss through Valve: Pressure Req. at Critical Station: Loss for Fittings: Loss for Fittings: Loss for Main Line: Loss for POC to Valve Elevation: Loss for Backflow: Loss for Master Valve: Loss for Master Valve: Loss for Water Meter: Critical Station Pressure at POC: Pressure Available: Residual Pressure Available:	C41 30 PSI 2.45 PSI 0.25 PSI 0 PSI 3.58 PSI 36.3 PSI 0.14 PSI 1.36 PSI 0 PSI 12.1 PSI 1.13 PSI 0.87 PSI 51.9 PSI 60 PSI 8.12 PSI

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	<u>GPM</u>	PRECIP
C1	Rain Bird PEB	1-1/2"	Shrub Spray	36.91	1.28 in/h
C2	Rain Bird XCZ-100-LC	1"	Area for Dripline	8.06	0.77 in/h
C3	Rain Bird XCZ-100-LC	1"	Area for Dripline	10.74	1.75 in/h
C4	Rain Bird PEB	1"	Shrub Rotary	6.46	0.73 in/h
C5	Rain Bird PEB	1-1/2"	Turf Rotary	32.32	0.4 in/h
C6 C7	Rain Bird XCZ-100-LC	1"	Area for Dripline Shrub Spray	11.13	0.71 in/h
C8	Rain Bird PEB Rain Bird XCZ-100-LC	1-1/2" 1"	Area for Dripline	42.54 7.49	1.53 in/h 0.54 in/h
C9	Rain Bird PEB	1"	Shrub Rotary	7.49 19.05	0.34 m/n 0.43 in/h
C10	Rain Bird PEB	1"	Turf Rotary	17.15	0.43 m/n 0.46 in/h
C11	Rain Bird XCZ-100-LC	1"	Area for Dripline	11.05	0.7 in/h
C12	Rain Bird PEB	1"	Shrub Rotary	15.32	0.46 in/h
C13	Rain Bird PEB	1"	Bubbler	3	1.86 in/h
C14	Rain Bird PEB	1"	Turf Rotary	8.96	0.38 in/h
C15	Rain Bird PEB	1"	Shrub Rotary	20.76	0.47 in/h
C16	Rain Bird PEB	1"	Shrub Rotary	2.6	0.3 in/h
C17	Rain Bird PEB	1"	Shrub Spray	17.44	1.33 in/h
C18	Rain Bird XCZ-100-LC	1"	Area for Dripline	13.12	1.11 in/h
C19	Rain Bird PEB	1-1/2"	Shrub Spray	26.73	1.32 in/h
C20	Rain Bird PEB	1-1/2"	Shrub Spray	24.46	1.88 in/h
C21	Rain Bird PEB	1-1/2"	Shrub Spray	26.99	1.22 in/h
C22	Rain Bird PEB	1-1/2"	Shrub Spray	25.87	1.25 in/h
C23	Rain Bird PEB	1-1/2"	Shrub Spray	50.6	1.31 in/h
C24	Rain Bird PEB	1-1/2"	Shrub Rotary	27.54	0.39 in/h
C25	Rain Bird PEB	1"	Shrub Rotary	16.92	0.22 in/h
C26	Rain Bird XCZ-100-LC	1"	Area for Dripline	12.02	0.6 in/h
C27	Rain Bird XCZ-100-LC	1"	Area for Dripline	8.52	0.79 in/h
C28	Rain Bird PEB	1-1/2"	Turf Rotary	36.35	0.46 in/h
C29	Rain Bird PEB	1-1/2"	Shrub Spray	39.78	1.44 in/h
C30	Rain Bird PEB	1"	Shrub Rotary	2.14	0.24 in/h
C31	Rain Bird XCZ-100-LC	1"	Area for Dripline	5.28	0.72 in/h
C32	Rain Bird PEB	1"	Shrub Spray	7.56	1.09 in/h
C33	Rain Bird PEB	1"	Shrub Rotary	20.44	0.33 in/h
C34	Rain Bird PEB	1"	Turf Rotary Shrub Rotary	20.19	0.56 in/h
C35	Rain Bird PEB Rain Bird PEB	1-1/2" 1-1/2"	Turf Rotary	28.22 32.29	0.42 in/h 0.43 in/h
C36 C37	Rain Bird XCZ-100-LC	1-1/∠ 1"	Area for Dripline	32.29 1.44	0.43 m/n 0.6 in/h
C38	Rain Bird PEB	1"	Turf Spray	16.9	2.58 in/h
C39	Rain Bird PEB	1-1/2"	Turf Rotary	35.67	0.38 in/h
C40	Rain Bird PEB	1-1/2"	Turf Spray	34.53	1.64 in/h
C41	Rain Bird PEB	1-1/2"	Shrub Spray	29.22	1.38 in/h
C42	Rain Bird PEB	1-1/2"	Shrub Spray	33.7	1.65 in/h
C43	Rain Bird PEB	1-1/2"	Turf Spray	26.95	1.98 in/h
C44	Rain Bird PEB	1"	Shrub Rotary	17.04	0.35 in/h
				-	

GENERAL NOTES

- 1. ALL TRENCHING TO BE OUTSIDE OF TREE DRIP LINE 2. MAINLINE TO HAVE MINIMUM OF 18" OF COVER AND A MINIMUM OF 18" OFF
- OF THE HARDSCAPE 3. LATERALS TO HAVE MINIMUM OF 12" OF COVER AND A MINIMUM OF 12" OFF OF THE HARDSCAPE
- 4. NO ROCKS, BOULDERS OR SHARP OBJECTS TO BE IN TRENCH BACKFILL
- 5. ALL PIPE TO BE INSTALLED AS PER MANUFACTURES SPECIFICATIONS
- 6. SPRINKLERS AND RELATED EQUIPMENT TO BE INSTALLED AS PER DETAILS 7. TWO WIRE CONTROL WIRE TO BE 14 GA UL 2 CONDUCTOR, JACKETED AND APPROVED BY 2-WIRE CONTROLLER MANUFACTURER
- 8. ALL 2-WIRE CONTROL WIRE TO HAVE 14GA "BLUE" TRACER WIRE FROM THE CONTROLLER TO ALL CONTROL VALVES. TRACER WIRE TO HAVE A 24" LOOP LOCATED IN EACH CONTROL VALVE AND ISOLATION VALVE BOXES. 9. WIRE SPLICES TO BE DONE AS PER DETAILS
- 10. ALL WIRE SPLICES OUTSIDE OF CONTROL VALVE BOX TO BE IN 10" VALVE BOX
- 11. TWO WIRE CONDUCTORS TO BE COLOR CODED 12. CONTRACTOR SHALL INSTALL MANUFACTURES GROUNDING EQUIPMENT ON BOTH THE POWER AND OUTPUT SIDES OF CONTROLLER, ALL GROUNDING POINTS TO BE INSTALLED AS PER PLANS AND DETAILS
- 13. AT EACH VALVE AND CHANGE IN MAINLINE DIRECTION CONTRACTOR TO INSTALL A 30" LOOP OF EXTRA WIRE 14. SPRINKLERS ARE TO BE ADJUSTED TO AVOID OVER-SPRAY INTO
- NON-IRRIGATED AREAS 15. ELECTRIC CONTROL VALVES ARE TO BE INSTALLED IN VALVE BOXES AS
 - FOLLOWS 14" RECTANGULAR MINIMUM FOR EACH ELECTRIC CONTROL VALVE
- JUMBO VALVE BOX FOR DRIP ZONE KITS 16. SPRINKLERS TO BE INSTALLED 12" FROM FOUNDATIONS AND 2" FROM HARDSCAPE
- 17. CONTRACTOR TO ADD RISER EXTENSIONS TO SPRINKLERS IF REQUIRED TO MAINTAIN PROPER COVERAGE
- 18. ALL PIPING TO BE FLUSHED PRIOR TO INSTALLATION OF SPRINKLERS 19. ALL VALVES, QUICK COUPLER VALVES, WIRE SPLICES TO BE IN LANDSCAPED BEDS WHEREVER POSSIBLE
- 20. CONTRACTOR IS RESPONSIBLE FOR OBTAINING PROPER COVERAGE OF AREA TO BE IRRIGATED, MAKE ADJUSTMENTS AS NECESSARY
- 21. CONTRACTOR SHALL EXERCISE CARE NOT TO DAMAGE EXISTING UTILITIES REPAIRING ANY DAMAGES AT HIS OWN COST
- 22. PLAN IS DIAGRAMMATIC TO IMPROVE CLARITY ALL IRRIGATION EQUIPMENT TO BE INSTALLED WITHIN PROPERTY LINES AND LANDSCAPED AREAS 23. ANY DISCREPANCIES BETWEEN THE PLAN AND THE SITE TO BE REFERRED
- TO THE OWNERS REPRESENTATIVE PRIOR TO CONSTRUCTION 24. CONTRACTOR TO PROVIDE 1 YEAR WARRANTEE OF ALL PRODUCTS AND
- WORKMANSHIP TO INCLUDE WINTERIZATION AND SPRING START-UP 25. CONTRACTOR TO PROVIDE OWNER AND OR LANDSCAPE ARCHITECT
- RECORD DRAWING PRIOR TO SUBSTANTIAL COMPLETION. 26. INSTALLATION OF IRRIGATION SLEEVES IS THE IRRIGATION CONTRACTORS RESPONSIBILITY IRRIGATION CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR SLEEVE INSTALLATION PRIOR TO PAVEMENT
- INSTALLATION 27. CLEANUP AND DISPOSE OF ALL DEBRIS, WASTE AND EXCESS CONSTRUCTION MATERIALS LEAVE AREA NEAT, CLEAN AND READY FOR OWNERS USE PROVIDE CLEAN PAVEMENT SURFACES INCLUDING AREAS OF PUBLIC R.O.W.

IRF

	I SCHEDULE	IRRIGATION S			
MBOL	MANUFACTURER/MODEL/DESCRIPTION	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION		
9	Rain Bird PEB 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration.	ES LCS RCS CS SS	Hunter PROS-06-PRS30 5` strip spray Turf Spray, 30 psi regulated 6" Pop-Up. Co-molded wiper seal with UV Resistant Material.		STRUCTION
	Hunter HQ-44LRC-AW Quick coupler valve, yellow rubber locking cover, red brass and stainless steel, with 1" NPT inlet, 2-piece body. Acme Key with Anti-Rotation Wings.	4 6 8 10 12 15 17	Resistant Material.		2 14-NOV-23 ISSUED FOR CONSTRUCTION
-	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location. Size Range - 1/4" - 3"	自应应应。 ES LCS RCS CS SS	Hunter PROS-12-PRS30-CV 5` strip spray Shrub Spray, 30 psi regulated 12" Pop-Up. With Factory Installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.		-23 ISSUEI
	Buckner-Superior 3100 1-1/2" Normally Open Brass Master Valve that Provides Dirty Water Protection. Available in 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2" and 3".	15) 15) 15) 15) 15) 15) Q Т Н ТТ ТQ F	Hunter PROS-12-PRS30-CV 15` radius Shrub Spray, 30 psi regulated 12" Pop-Up. With Factory Installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.		2 14-NOV
BF	Febco 825Y 1-1/2" Reduced Pressure Backflow Preventer	4 6 8 10 12 15 17	Hunter PROS-12-PRS30-CV Adjustable Arc Shrub Spray, 30 psi regulated 12" Pop-Up. With Factory Installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.		
С	Rain Bird ESPLXIVM 60 Station, 2-Wire Controller w/ Smart Valve Technology. (1) ESPLXIVM 60-Station, Indoor/Outdoor, Plastic Wall-Mount Cabinet.		Hunter MP Corner PROS-06-PRS30-CV Turf Rotator, 6" pop-up with factory installed check valve, pressure regulated to 30 psi, MP Rotator nozzle. T=Turquoise adj arc 45-105.		ANLEAS
€ A	Rain Bird IQ4G-USA IQ NCC 4G Cellular Cartridge. Rain Bird WR2-RFS	LST SST RST	Hunter MP Strip PROS-06-PRS30-CV Turf Rotator, 6" pop-up with factory installed check valve, pressure regulated to 30 psi, MP Rotator nozzle. LST=Ivory left strip, SST=Brown)TH
∎∕ FS)	Wireless Rain/Freeze Sensor. Creative Sensor Technology FSI-T15-001 1.5" (40mm) PVC tee type flow sensor w/socket ends, custom mounting tee and ultra lightweight impeller enhances low flow measurement. 2 wire	\odot	side strip, RST=Copper right strip. Hunter MP1000 PROS-06-PRS30-CV Turf Rotator, 6" pop-up with check valve, pressure regulated to 30 psi, MP Rotator nozzle. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.		CROSLANE
GP	digital output compatible w/all irrigation controllers. Flow range 1.8-108 GPM. 2-Wire Grounding Point Install as close to 8` off of and perpendicular to the wire p[ath as per plan	ଝତ୍ଢ	Hunter MP2000 PROS-06-PRS30-CV Turf Rotator, 6" pop-up with factory installed check valve, pressure regulated to 30 psi, MP Rotator nozzle. K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc.		
M	details. Water Meter 2" Irrigation Meter		Hunter MP3000 PROS-06-PRS30-CV Turf Rotator, 6" pop-up with factory installed check valve, pressure regulated to 30 psi, MP Rotator nozzle. B=Blue adj arc 90-210, Y=Yellow		
V12	Water Meter 2" Irrigation Meter Water Meter 2"	B	adj arc 210-270, A=Gray 360 arc. Hunter MP3500 PROS-06-PRS30-CV Turf Rotator, 6" pop-up with factory installed check valve, pressure regulated to 30 psi, MP Rotator nozzle. LB=light brown adjustable arc,		-o1
VI4	Irrigation Meter Water Meter 2" Irrigation Meter	Â	90-210. Hunter MP Corner PROS-12-PRS30-CV Shrub Rotator, 12" pop-up with factory installed check valve, pressure		
	 Irrigation Lateral Line: PVC Class 200 SDR 21 Irrigation Mainline: PVC Class 200 SDR 21 		regulated to 30 psi, MP Rotator nozzle. T=Turquoise adj arc 45-105. Hunter MP Strip PROS-12-PRS30-CV Shrub Rotator, 12" pop-up with factory installed check valve, pressure	TES	
	Pipe Sleeve: PVC Schedule 40	LST SST RST	regulated to 30 psi, MP Rotator nozzle. LST=lvory left strip, SST=Brown side strip, RST=Copper right strip.	NOT	X N 05 ∞ 05 ∞
ŧ •-	Valve Callout	$ \bigcirc \bigcirc \bigcirc$	Hunter MP1000 PROS-12-PRS30-CV Shrub Rotator, 12" pop-up with check valve, pressure regulated to 30 psi, MP Rotator nozzle. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.	AND	MPO
#•	Valve Flow Valve Size	ROR	Hunter MP2000 PROS-12-PRS30-CV Shrub Rotator, 12" pop-up with factory installed check valve, pressure regulated to 30 psi, MP Rotator nozzle. K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc.	ES	LBR AY I SDF
EREN	CE NOTES SCHEDULE	<u>@</u> \@	Hunter MP3000 PROS-12-PRS30-CV Shrub Rotator, 12" pop-up with factory installed check valve, pressure regulated to 30 psi, MP Rotator nozzle. B=Blue adj arc 90-210, Y=Yellow adj arc 210-270, A=Gray 360 arc.	HEDUL	VAL DW/ ect No
Bld	<u>SCRIPTION</u> g 4 Irrigation system water source to be a 1-1/2" or larger service line and ter, see civil plan. System requirements are 46 gpm at a static pressure of 63 Verify available flow and pressure prior to construction,	▲ ⊙ 1401 1402	Rain Bird RWS-M-B-C w/ RWS-SOCK 1400 Series Mini Root Watering System with 4in. diameter x 18in. long with locking grate, semi-rigid mesh tube and Rain Bird 1401 0.25 GPM or 1402 0.5 GPM bubbler as indicated. With Check Valve, and Sand Sock for sandy soil.	ON SC	AT W ROAI le Proje
	Z backflow preventer with enclosure, see civil plan.	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	IE	IX A X R sville
per	tall Master Valve(MV) and Flow Sensor(FS) with centerline 12" below FG as plan details and manufacturers instructions.		Rain Bird XCZ-100-LC Wide Flow Drip Control Kit, for Light Commercial Uses. 1" PEB Valve, with 1" Pressure Regulating 40psi Basket Filter. 0.3-20 GPM.	RIGA	
rep circ	resentative. Provide 120v 20 amp power to the controller from a dedicated suit. Install controller as per plan notes, details and the manufacturers tructions.	Ę	Hunter PLD-BV Manual flush/shut off valve, barbed insert. Typically installed in 10" box, with adequate blank tubing to extend valve out of valve box. Use with HDL or other 3/4" dripline.	₽ ₽	
inst	tall Rain Bird cell data modem cartridge in the controller as per manufacturers tructions. Provide 1 year of Rain Bird IQ4 remote access in the owners name. e IQ4 Notes for further requirements.		Hunter ECO-ID ECO-ID: 1/2" FPT connection with 12-60 PSI operating pressure. Specify with Hunter SJ swing joint.		
	ordinate the exact location of the Wireless Rain Freeze sensor with the owners resentative. Install as per plan detail and manufacturers instructions.		Area to Receive Dripline Rain Bird XFCV-06-18 XECV On Surface Landscape Dripline with a Heavy Duty 3.5 pci Check		>
	Vire cable from the controller to mainline to be installed in 1" SCH 40 PVC ctrical conduit with a minimum depth of cover of 18".		XFCV On-Surface Landscape Dripline with a Heavy-Duty 3.5 psi Check Valve. 0.6 GPH emitters at 18" O.C. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern. Great for elevation change. Specify XF insert fittings.	199	5 2 2
	tall Rain Bird XFSCV-6-12 inline drip tubing 3" below soil FG.		Area to Receive Dripline	lse: P-1	PLLC ANNERS
	blix Irrigation system water source to be a 1-1/2" or larger service line and ter, see civil plan. System requirements are 38 gpm at a static pressure of 65		Rain Bird XFS-CV-06-12 XFS-CV Sub-Surface and On-Surface Landscape Dripline with a		

#	ŧ •		Valve Num
#"	#∙		Valve Flow
		l	Valve Size

IGATIC	ON SCHEDULE	IRRIGATION S	SCHEDULE		
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION		
•	Rain Bird PEB 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability, Globe Configuration.	ES LCS RCS CS SS	Hunter PROS-06-PRS30 5` strip spray Turf Spray, 30 psi regulated 6" Pop-Up. Co-molded wiper seal with UV Resistant Material.		ISSUED FOR CONSTRUCTION
	Hunter HQ-44LRC-AW Quick coupler valve, yellow rubber locking cover, red brass and stainless steel, with 1" NPT inlet, 2-piece body. Acme Key with Anti-Rotation Winge	4 6 8 10 12 15 17	Hunter PROS-06-PRS30 adjustable arc Turf Spray, 30 psi regulated 6" Pop-Up. Co-molded wiper seal with UV Resistant Material.		FOR CONS
M	Wings. Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as	自应。 Es LCS RCS CS SS	Hunter PROS-12-PRS30-CV 5` strip spray Shrub Spray, 30 psi regulated 12" Pop-Up. With Factory Installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.		-23 ISSUED
	mainline pipe diameter at valve location. Size Range - 1/4" - 3" Buckner-Superior 3100 1-1/2" Normally Open Brass Master Valve that Provides Dirty Water Protection.		Hunter PROS-12-PRS30-CV 15` radius Shrub Spray, 30 psi regulated 12" Pop-Up. With Factory Installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.		
BF	Available in 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2" and 3". Febco 825Y 1-1/2" Reduced Pressure Backflow Preventer	4 6 8 10 12 15 17	Hunter PROS-12-PRS30-CV Adjustable Arc Shrub Spray, 30 psi regulated 12" Pop-Up. With Factory Installed Drain Check Valve. Co-molded wiper seal with UV Resistant Material.	REVI	
С	Rain Bird ESPLXIVM 60 Station, 2-Wire Controller w/ Smart Valve Technology. (1) ESPLXIVM 60-Station, Indoor/Outdoor, Plastic Wall-Mount Cabinet.		Hunter MP Corner PROS-06-PRS30-CV Turf Rotator, 6" pop-up with factory installed check valve, pressure regulated to 30 psi, MP Rotator nozzle. T=Turquoise adj arc 45-105.		EAS
€M) ∢R₱	Rain Bird IQ4G-USA IQ NCC 4G Cellular Cartridge. Rain Bird WR2-RFS	LST SST RST	Hunter MP Strip PROS-06-PRS30-CV Turf Rotator, 6" pop-up with factory installed check valve, pressure regulated to 30 psi, MP Rotator nozzle. LST=Ivory left strip, SST=Brown side strip, PST=Connect right strip.		JTHE.
FS	Wireless Rain/Freeze Sensor. Creative Sensor Technology FSI-T15-001 1.5" (40mm) PVC tee type flow sensor w/socket ends, custom mounting tee and ultra lightweight impeller enhances low flow measurement. 2 wire digital output compatible w/all irrigation controllers. Flow range 1.8-108	\odot	side strip, RST=Copper right strip. Hunter MP1000 PROS-06-PRS30-CV Turf Rotator, 6" pop-up with check valve, pressure regulated to 30 psi, MP Rotator nozzle. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.	CRC	SOU
GP	GPM. 2-Wire Grounding Point Install as close to 8` off of and perpendicular to the wire p[ath as per plan details.	<u>k</u> @R	Hunter MP2000 PROS-06-PRS30-CV Turf Rotator, 6" pop-up with factory installed check valve, pressure regulated to 30 psi, MP Rotator nozzle. K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc.		
м	Water Meter 2" Irrigation Meter	(B) (Y) (A)	Hunter MP3000 PROS-06-PRS30-CV Turf Rotator, 6" pop-up with factory installed check valve, pressure regulated to 30 psi, MP Rotator nozzle. B=Blue adj arc 90-210, Y=Yellow		
M2 M3	Water Meter 2" Irrigation Meter Water Meter 2"	Œ	adj arc 210-270, A=Gray 360 arc. Hunter MP3500 PROS-06-PRS30-CV Turf Rotator, 6" pop-up with factory installed check valve, pressure		N N N N N
M4	Irrigation Meter Water Meter 2"		regulated to 30 psi, MP Rotator nozzle. LB=light brown adjustable arc, 90-210.		о Ш с
	Irrigation Meter Irrigation Lateral Line: PVC Class 200 SDR 21	企	Hunter MP Corner PROS-12-PRS30-CV Shrub Rotator, 12" pop-up with factory installed check valve, pressure regulated to 30 psi, MP Rotator nozzle. T=Turquoise adj arc 45-105.		
	 Irrigation Mainline: PVC Class 200 SDR 21 Pipe Sleeve: PVC Schedule 40 	LST SST RST	Hunter MP Strip PROS-12-PRS30-CV Shrub Rotator, 12" pop-up with factory installed check valve, pressure regulated to 30 psi, MP Rotator nozzle. LST=Ivory left strip, SST=Brown side strip, RST=Copper right strip.	K AN	> > > > > > > >
# • -	Valve Callout Valve Number	$\textcircled{\ } \textcircled{\ } @$ } \textcircled{\ } \textcircled{\ } @ } \textcircled{\ } \textcircled{\ } @ } \textcircled{\ } @	Hunter MP1000 PROS-12-PRS30-CV Shrub Rotator, 12" pop-up with check valve, pressure regulated to 30 psi, MP Rotator nozzle. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.	AND	MPR 23-02
#" #⊷	Valve Flow Valve Size	CCR	Hunter MP2000 PROS-12-PRS30-CV Shrub Rotator, 12" pop-up with factory installed check valve, pressure regulated to 30 psi, MP Rotator nozzle. K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc.	-BR	
EFERE	NCE NOTES SCHEDULE	<u>60</u>	Hunter MP3000 PROS-12-PRS30-CV Shrub Rotator, 12" pop-up with factory installed check valve, pressure regulated to 30 psi, MP Rotator nozzle. B=Blue adj arc 90-210, Y=Yellow adj arc 210-270, A=Gray 360 arc.	HEDU VALI	
	DESCRIPTION Bldg 4 Irrigation system water source to be a 1-1/2" or larger service line and meter, see civil plan. System requirements are 46 gpm at a static pressure of 63 psi. Verify available flow and pressure prior to construction,	▲ ☑ 1401 1402	Rain Bird RWS-M-B-C w/ RWS-SOCK 1400 Series Mini Root Watering System with 4in. diameter x 18in. long with locking grate, semi-rigid mesh tube and Rain Bird 1401 0.25 GPM or 1402 0.5 GPM bubbler as indicated. With Check Valve, and Sand Sock for sandy soil.		
1	RPZ backflow preventer with enclosure, see civil plan.	SYMBOL	MANUFACTURER/MODEL/DESCRIPTION		$\overline{}$ v
1	Install Master Valve(MV) and Flow Sensor(FS) with centerline 12" below FG as per plan details and manufacturers instructions. Coordinate the exact location of the irrigation controller with the owners		Rain Bird XCZ-100-LC Wide Flow Drip Control Kit, for Light Commercial Uses. 1" PEB Valve, with 1" Pressure Regulating 40psi Basket Filter. 0.3-20 GPM.	IRRIGA UBLI	
1	representative. Provide 120v 20 amp power to the controller from a dedicated circuit. Install controller as per plan notes, details and the manufacturers instructions.	Ę	Hunter PLD-BV Manual flush/shut off valve, barbed insert. Typically installed in 10" box, with adequate blank tubing to extend valve out of valve box. Use with HDL or other 3/4" dripline.	_≌ J	BR
	Install Rain Bird cell data modem cartridge in the controller as per manufacturers instructions. Provide 1 year of Rain Bird IQ4 remote access in the owners name. See IQ4 Notes for further requirements.	$\langle \mathbf{D} \rangle$	Hunter ECO-ID ECO-ID: 1/2" FPT connection with 12-60 PSI operating pressure. Specify with Hunter SJ swing joint.		
	Coordinate the exact location of the Wireless Rain Freeze sensor with the owners representative. Install as per plan detail and manufacturers instructions.		Area to Receive Dripline Rain Bird XFCV-06-18		Š
	2-Wire cable from the controller to mainline to be installed in 1" SCH 40 PVC electrical conduit with a minimum depth of cover of 18".		XFCV On-Surface Landscape Dripline with a Heavy-Duty 3.5 psi Check Valve. 0.6 GPH emitters at 18" O.C. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern. Great for elevation change. Specify XF insert fittings.	P-1199 L ERS	
	Install Rain Bird XFSCV-6-12 inline drip tubing 3" below soil FG.		Area to Receive Dripline	LTIN PLLC ANNERS	
•	Publix Irrigation system water source to be a 1-1/2" or larger service line and meter, see civil plan. System requirements are 38 gpm at a static pressure of 65 psi. Verify available flow and pressure prior to construction,		Rain Bird XFS-CV-06-12 XFS-CV Sub-Surface and On-Surface Landscape Dripline with a Heavy-Duty 4.3 psi Check Valve. 0.6 GPH emitters at 12" O.C. Dripline	NC License: NSULT OUP, PLL	
נ	Lots 2 and 3 Irrigation system water source to be a 1-1/2" or larger service line		laterals spaced at 12" apart, 3" below soil FG, with emitters offset for triangular pattern.		

BCF

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roject Manager:

Drawn By:

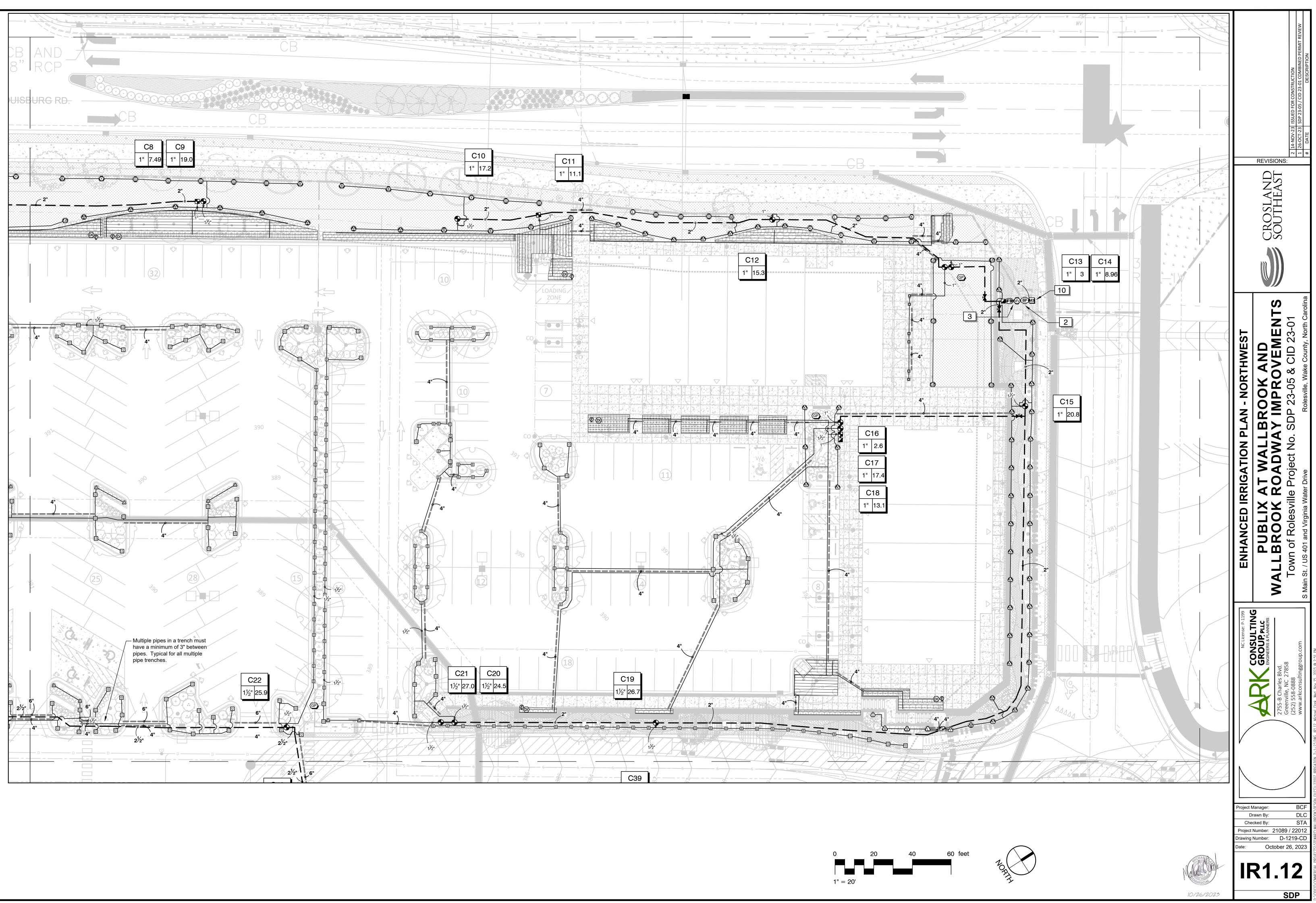
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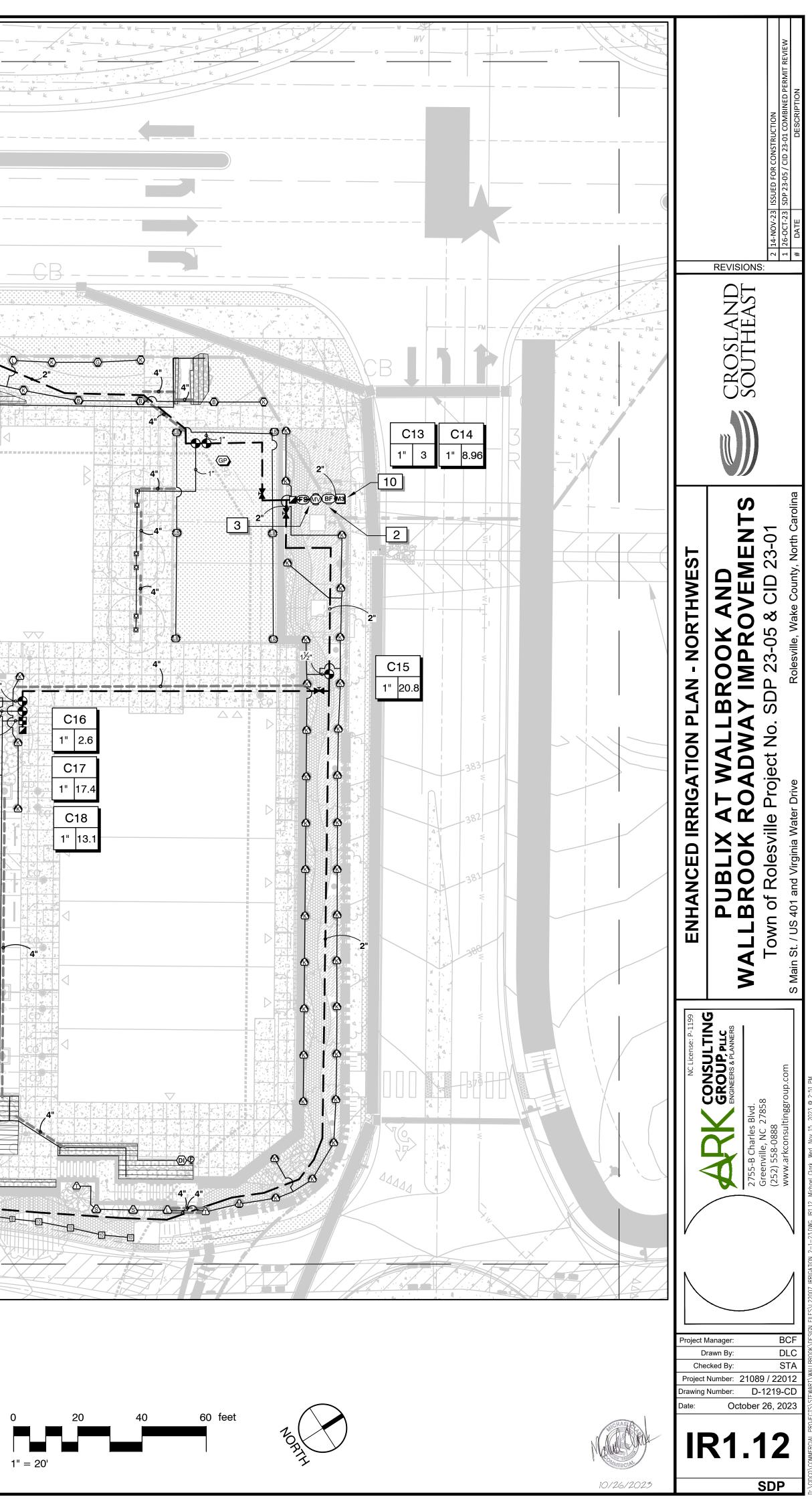
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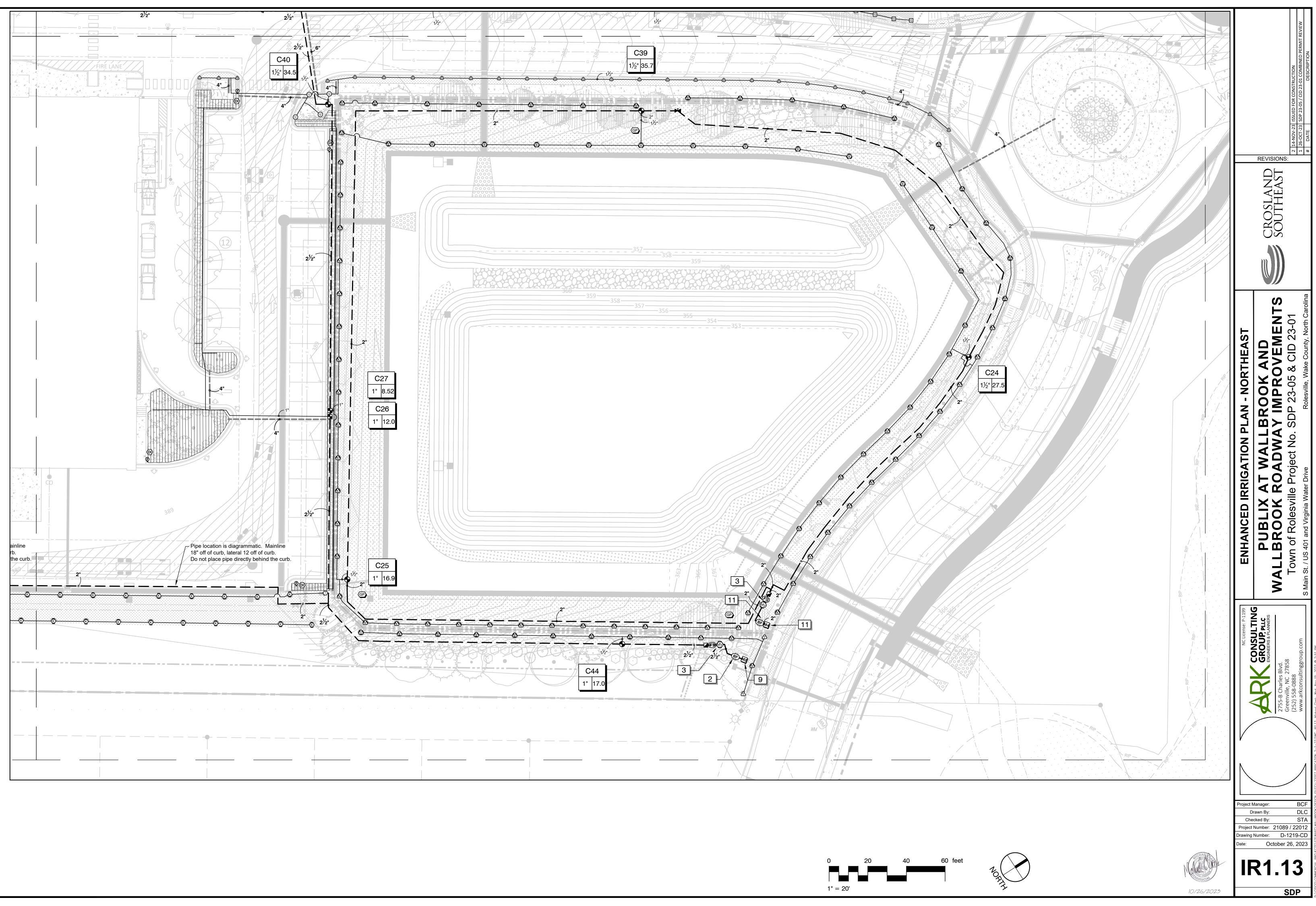
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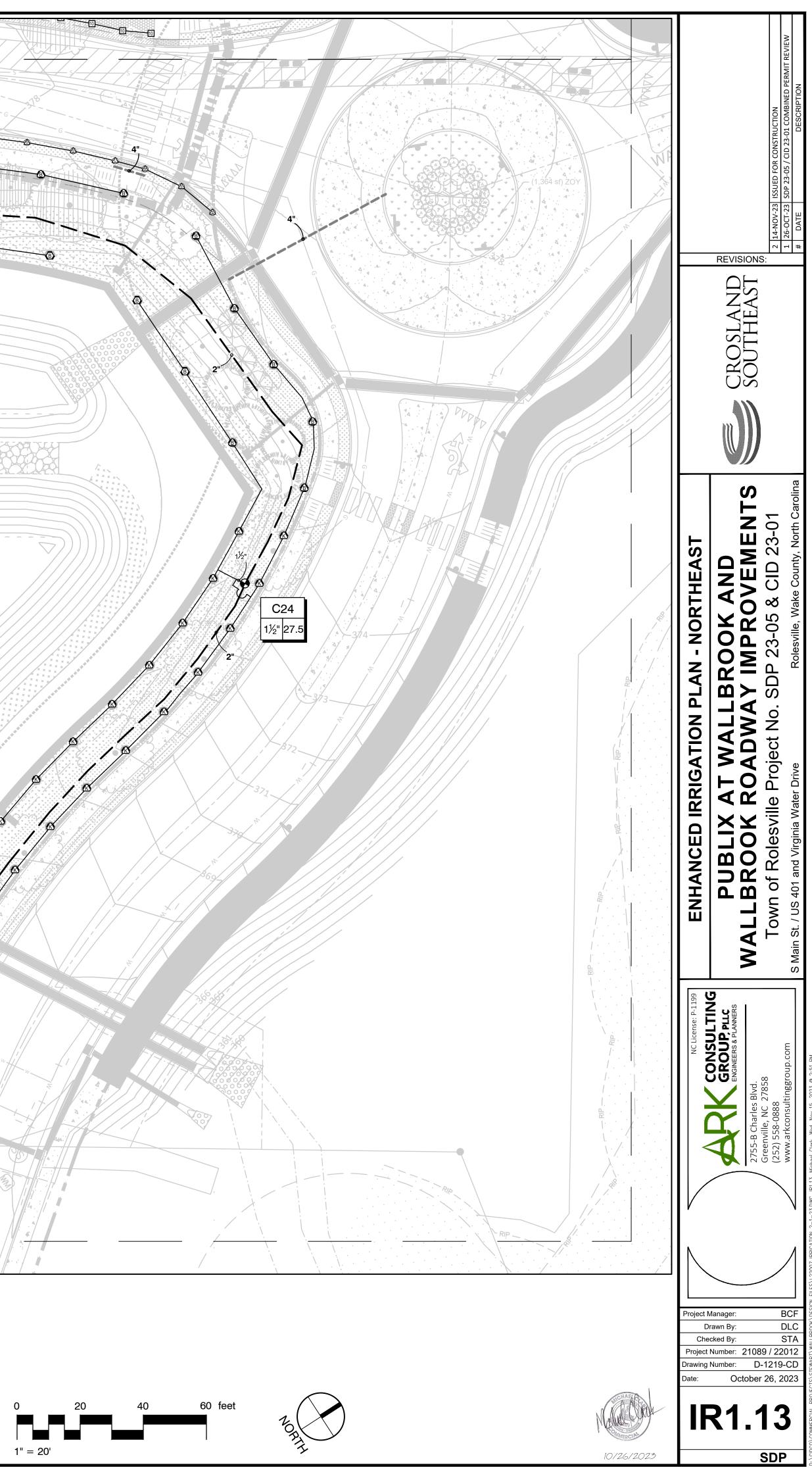
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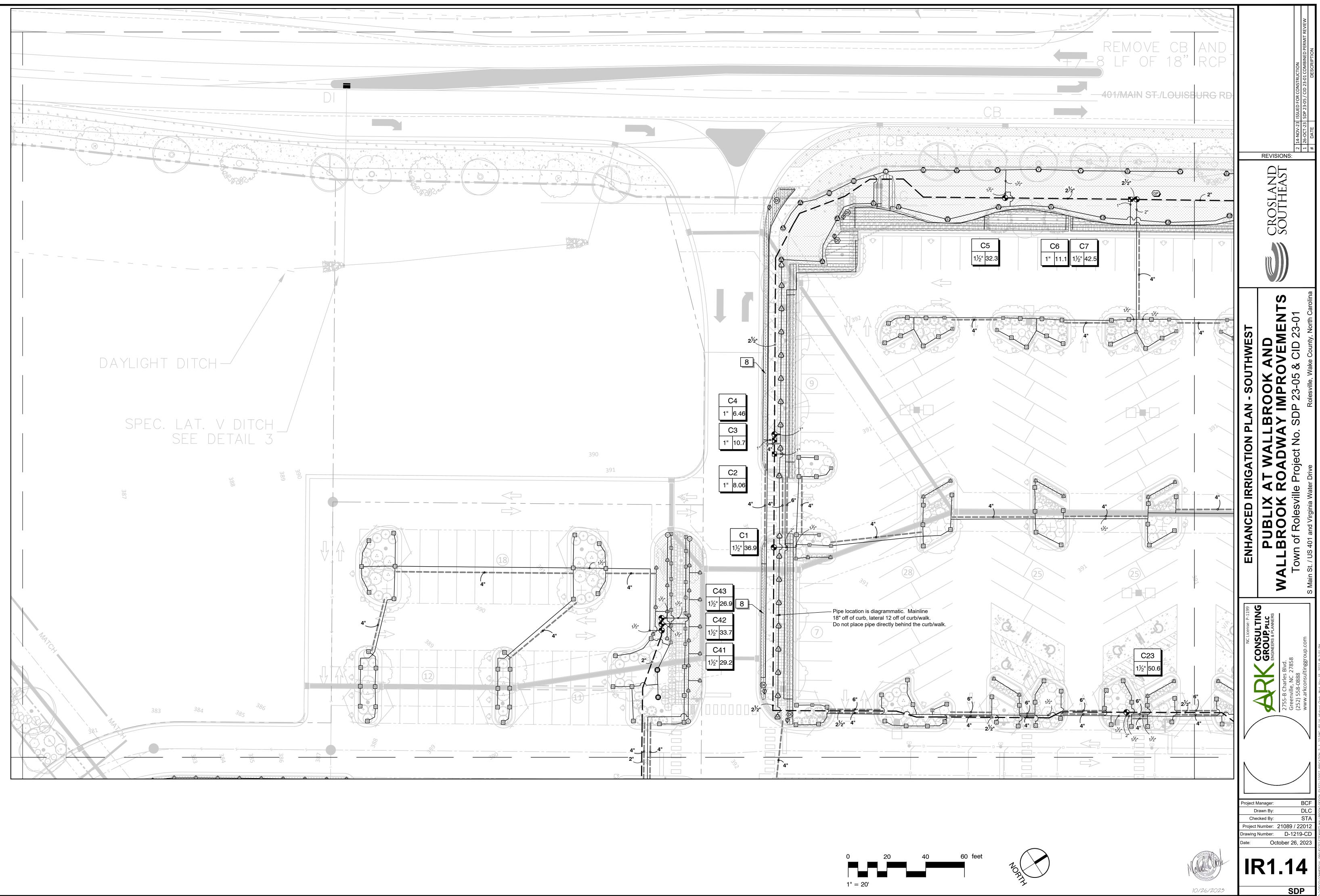
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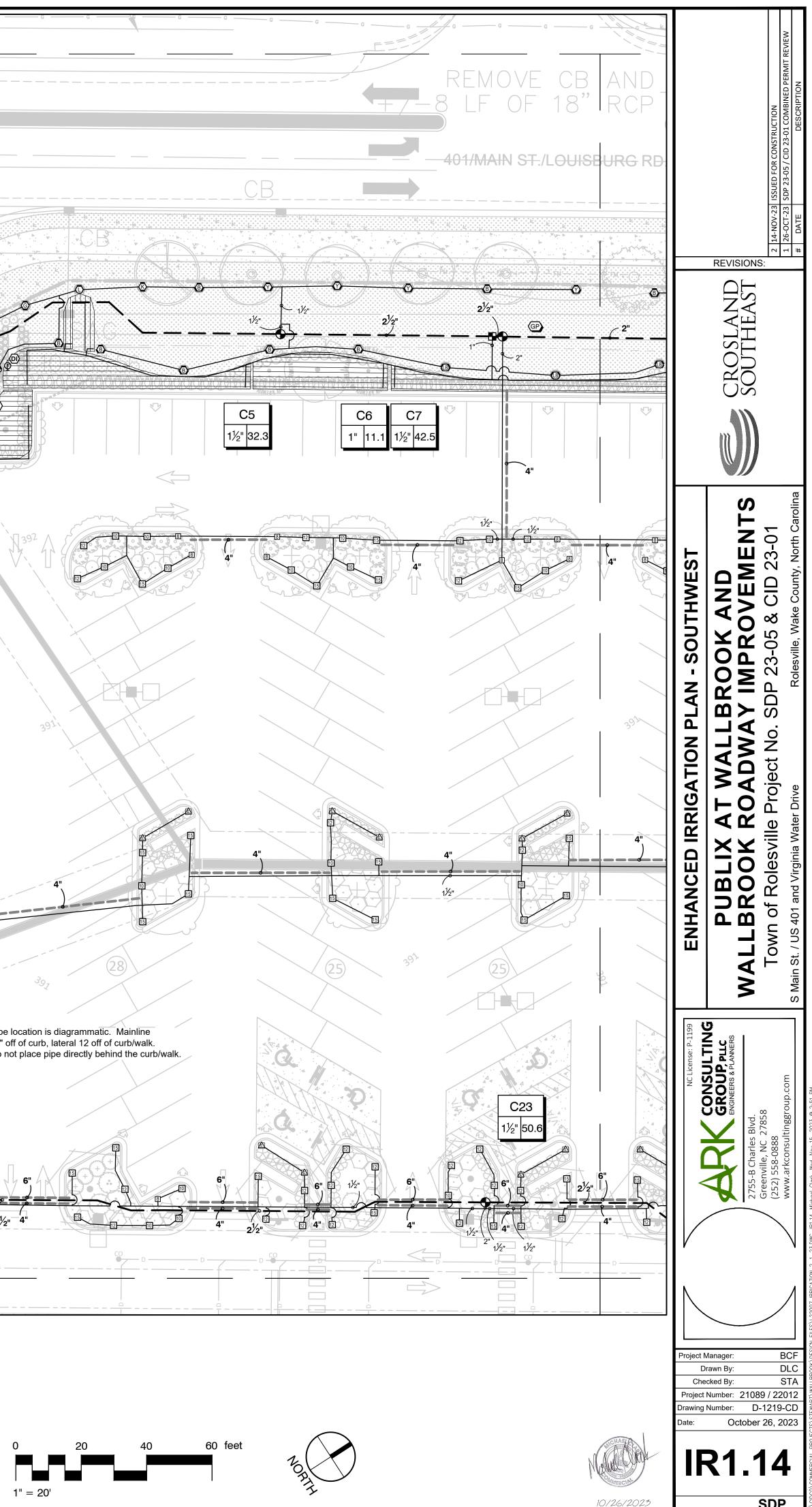


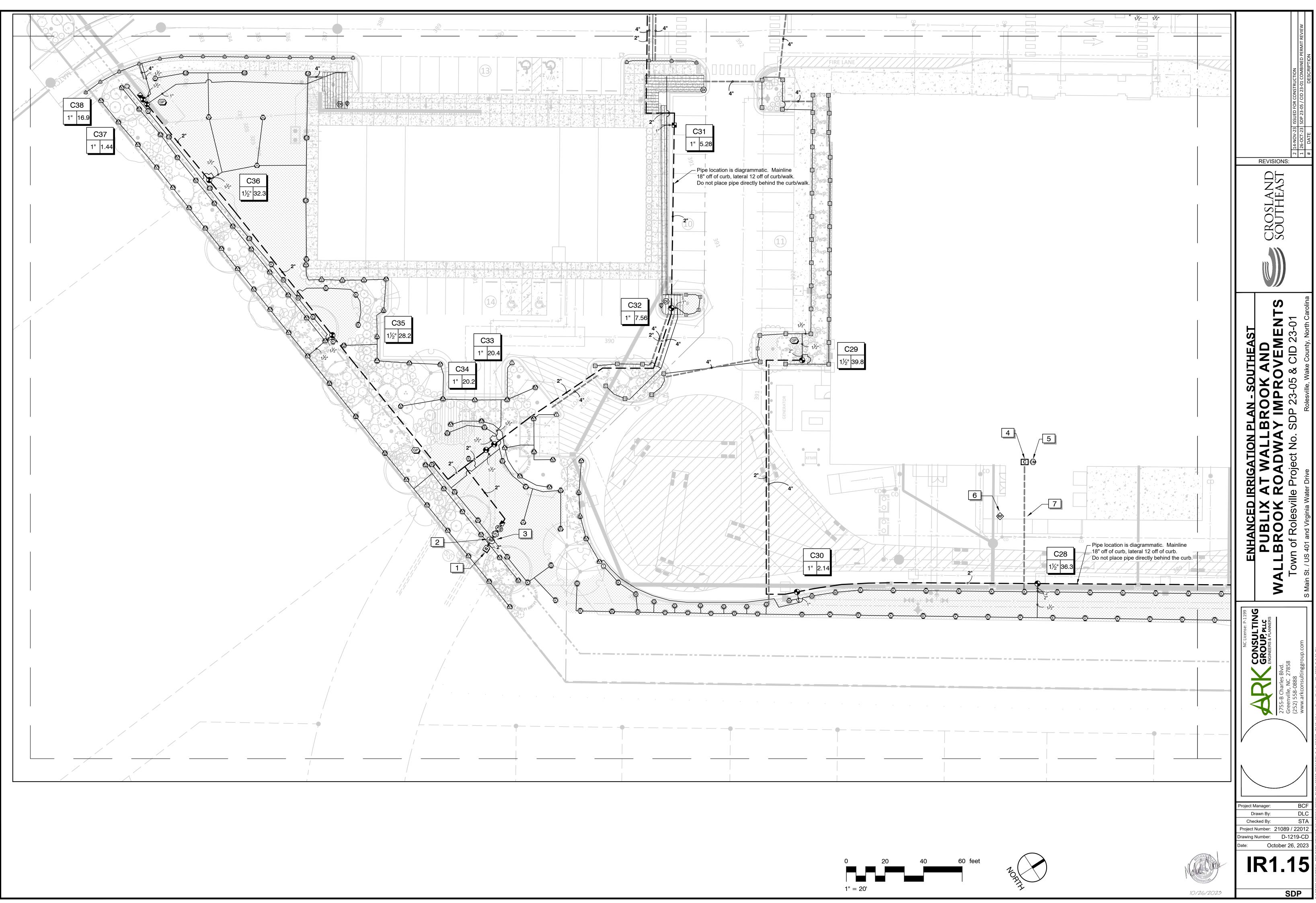


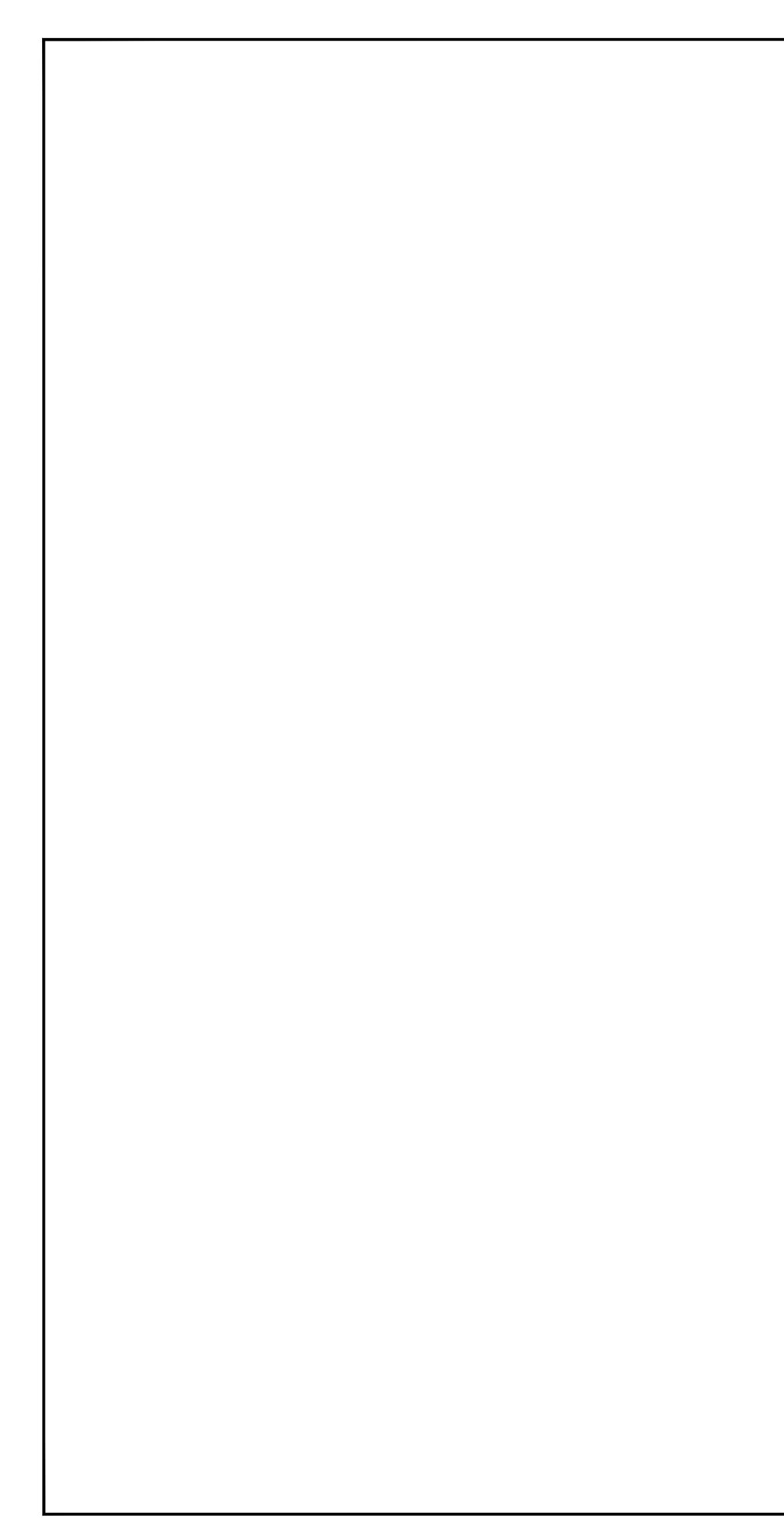


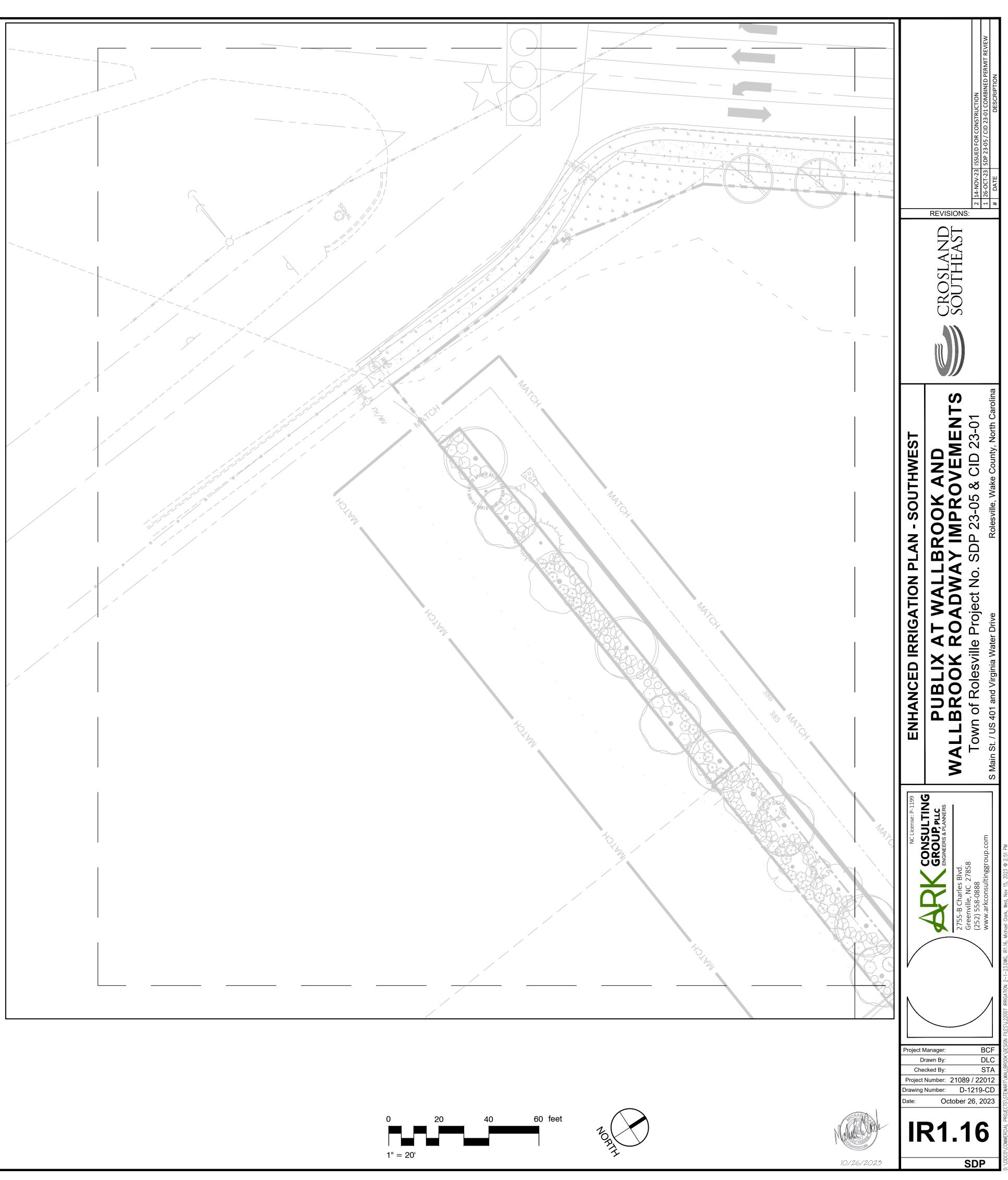


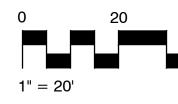


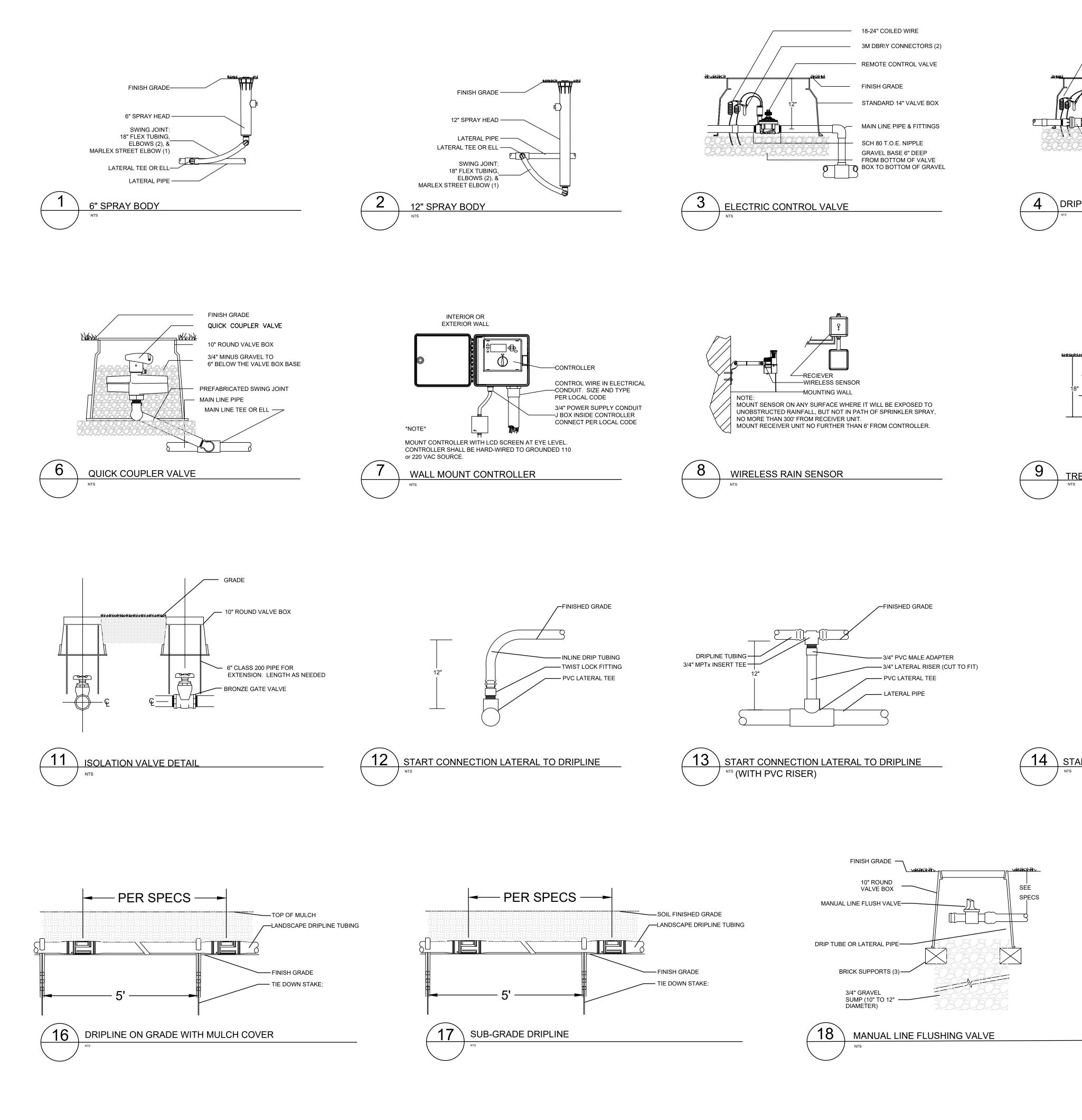


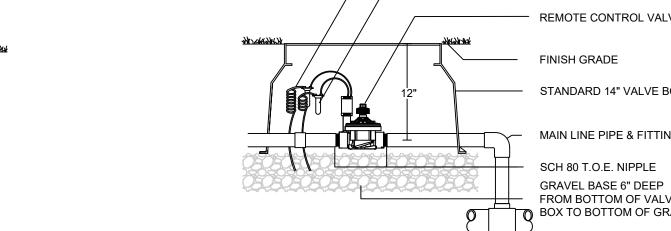


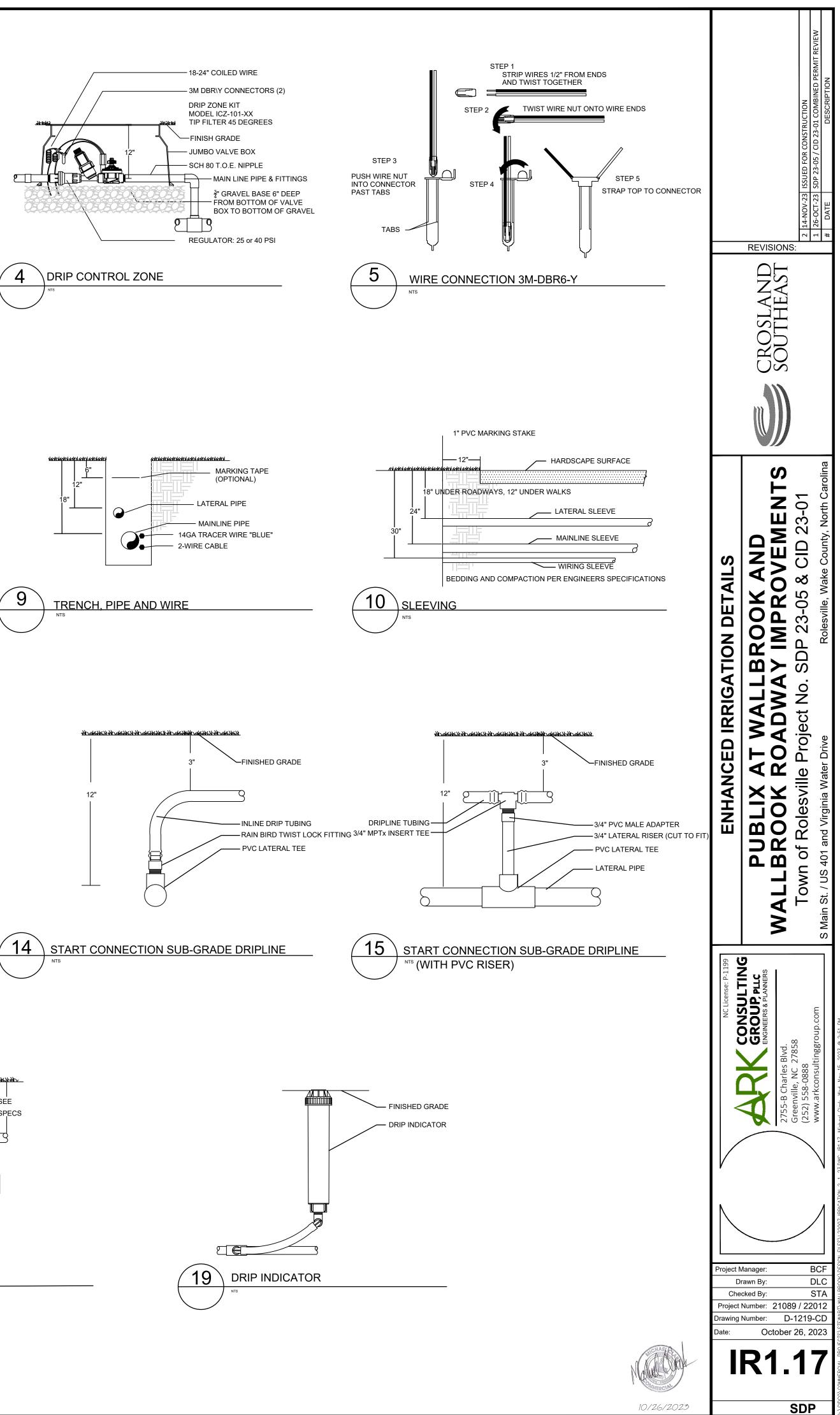


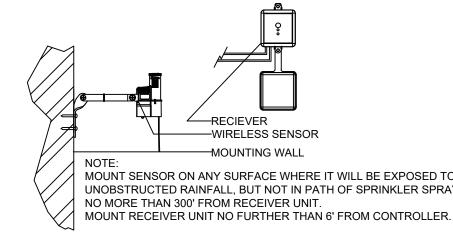




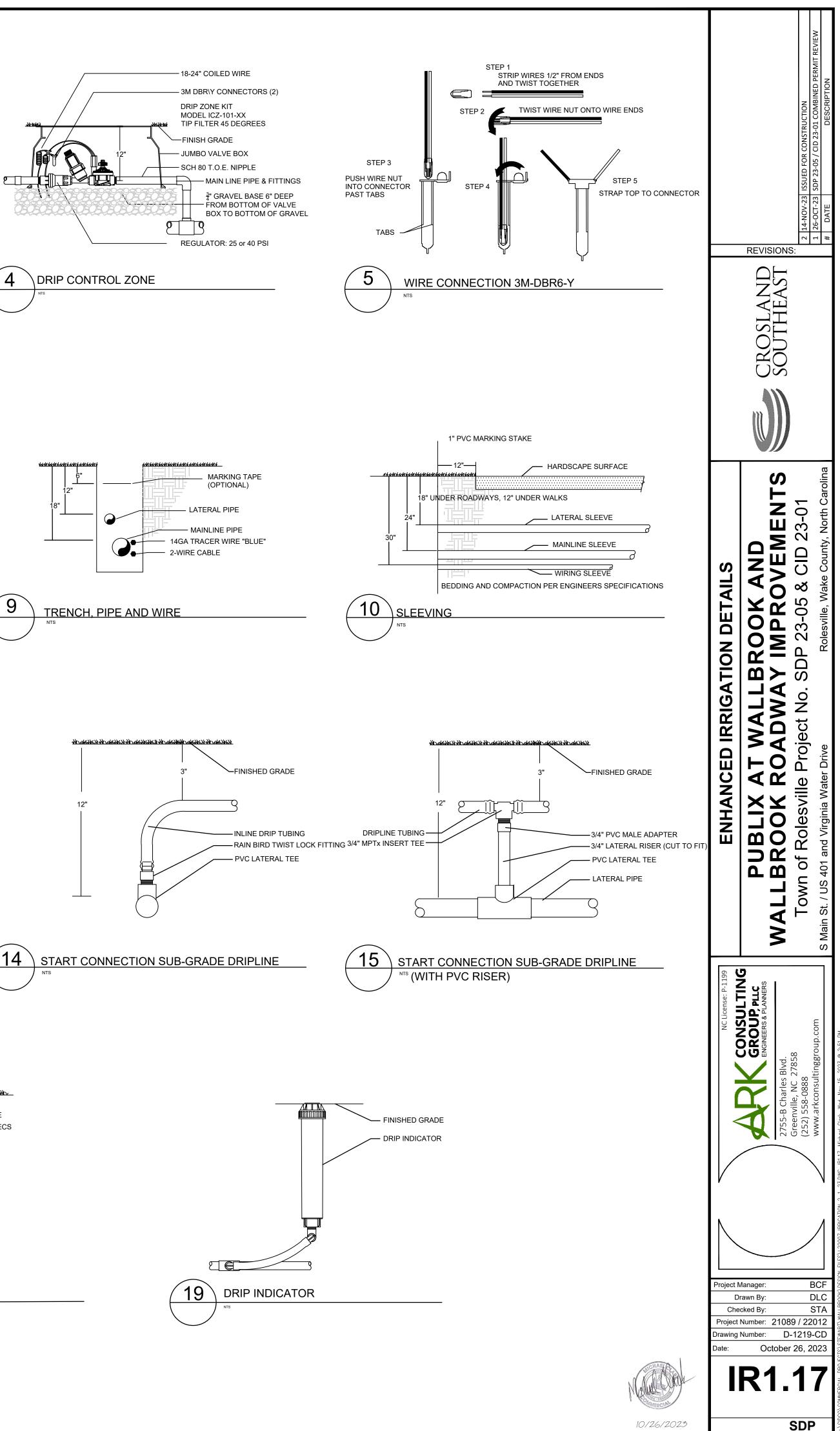


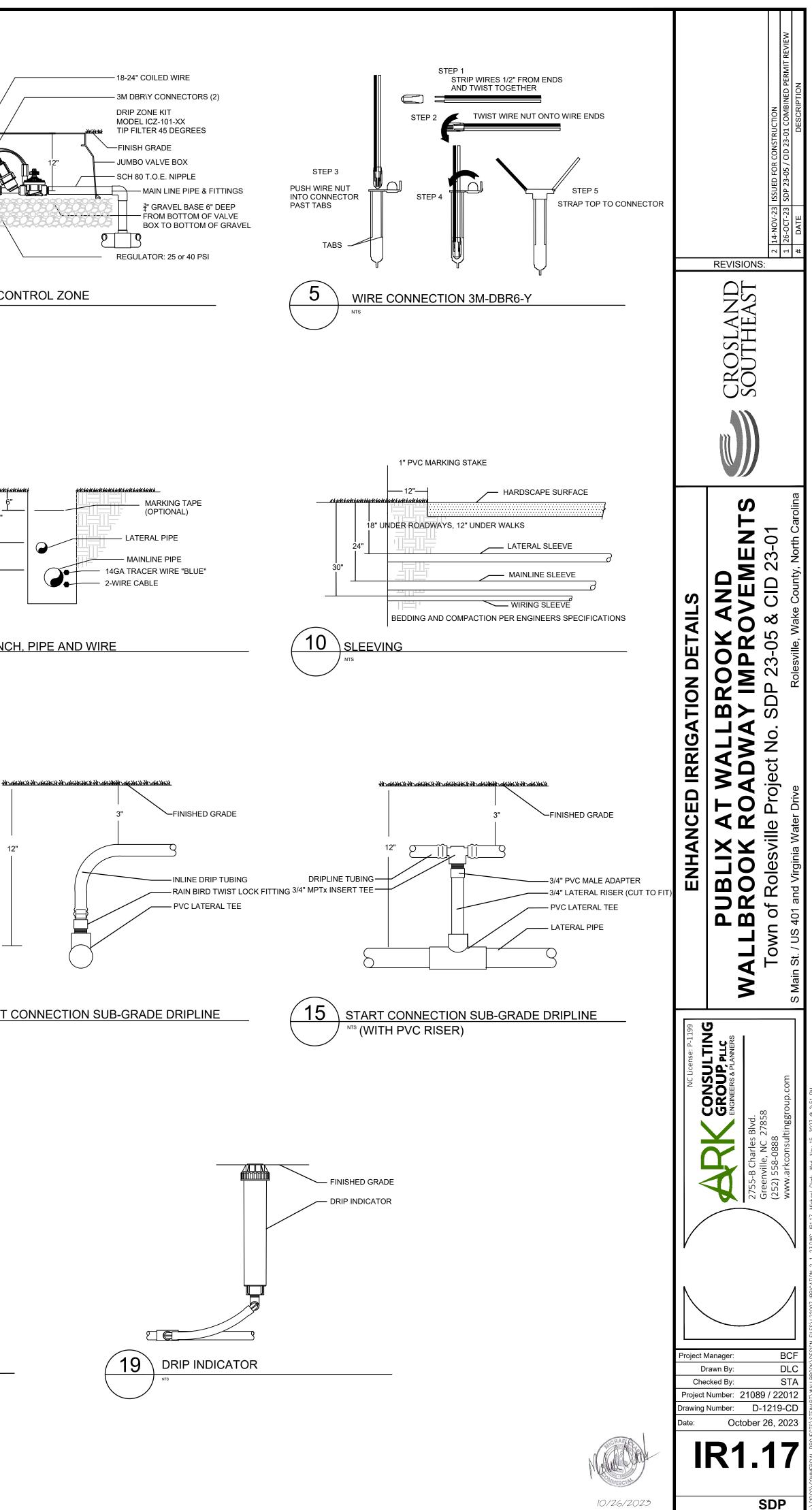


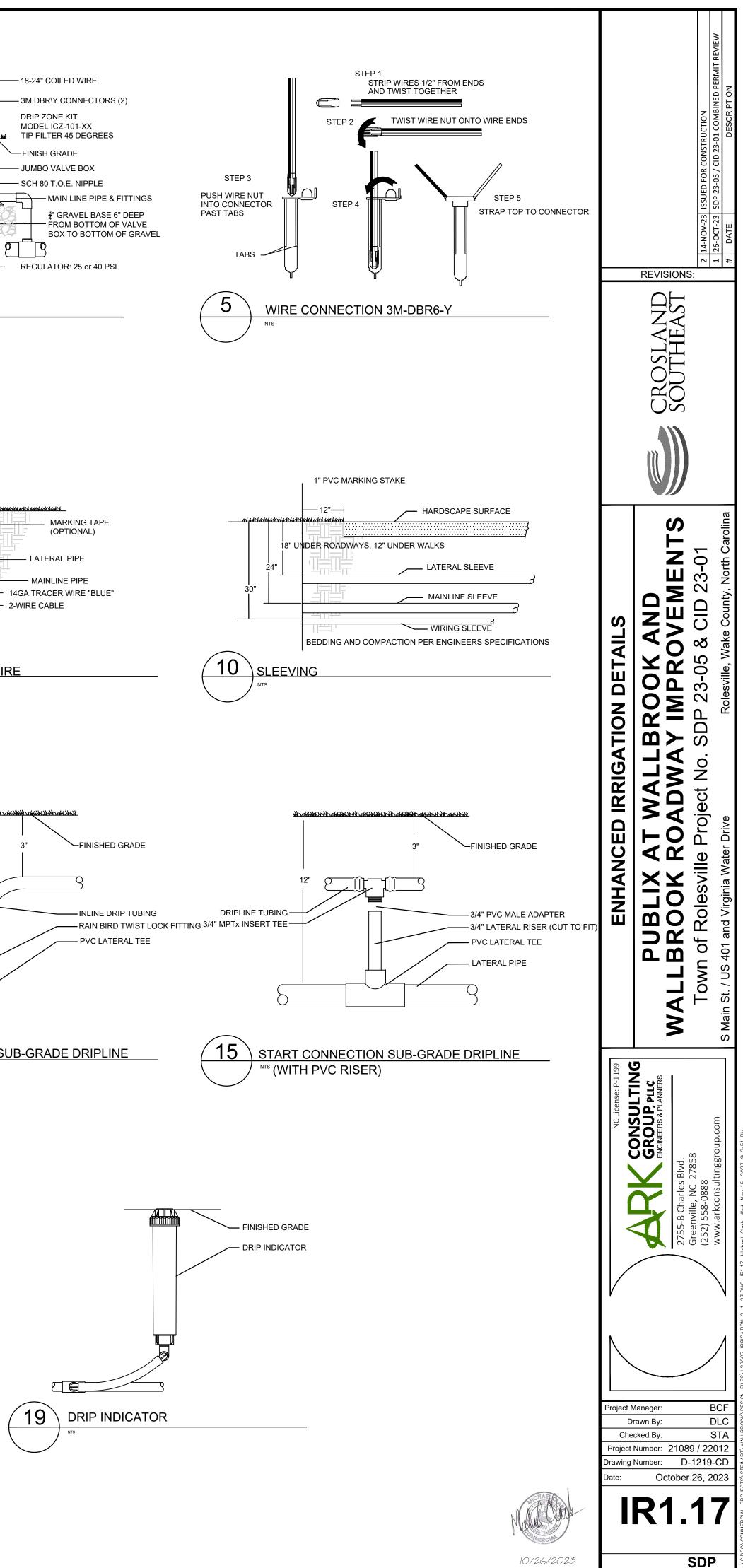


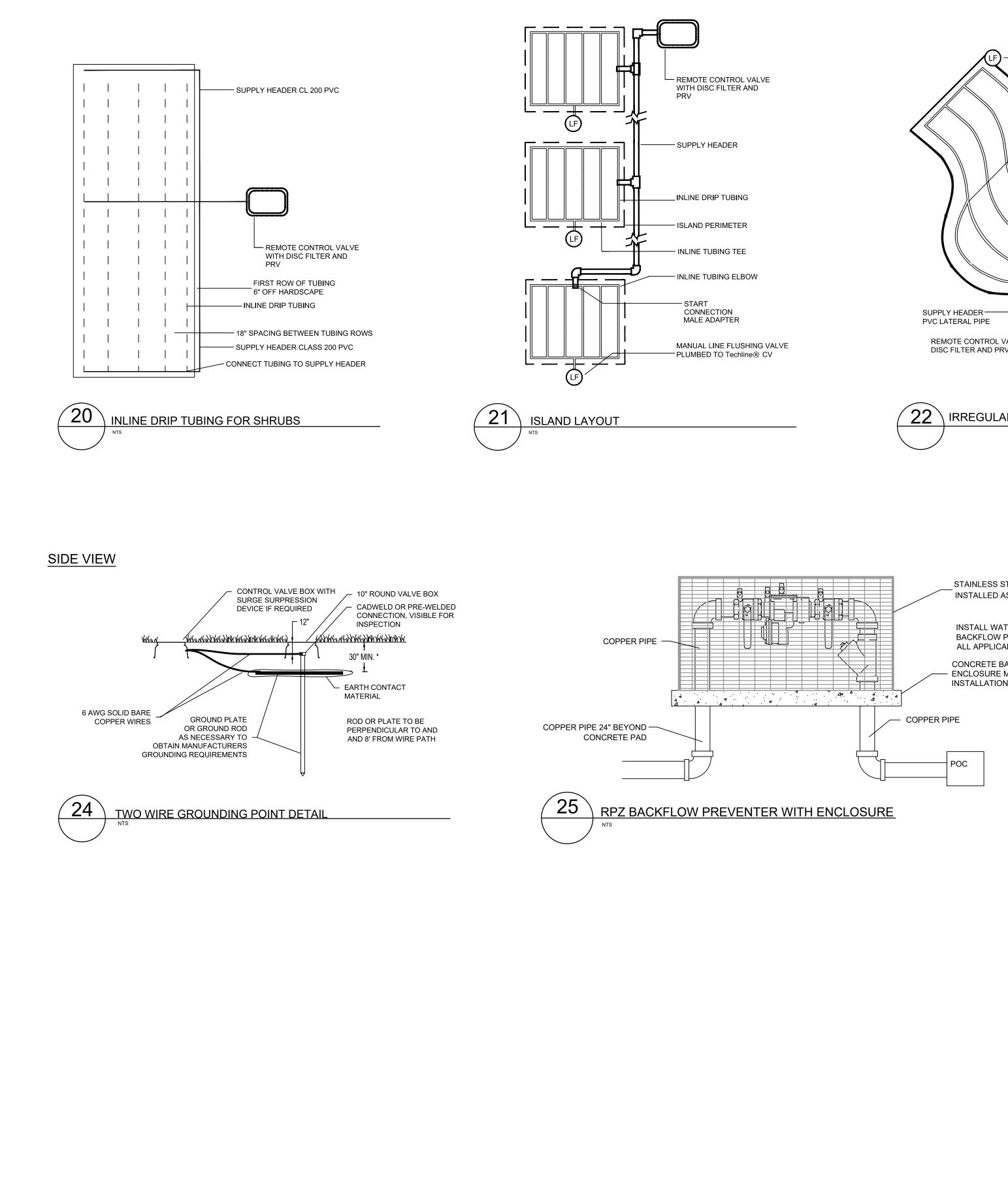


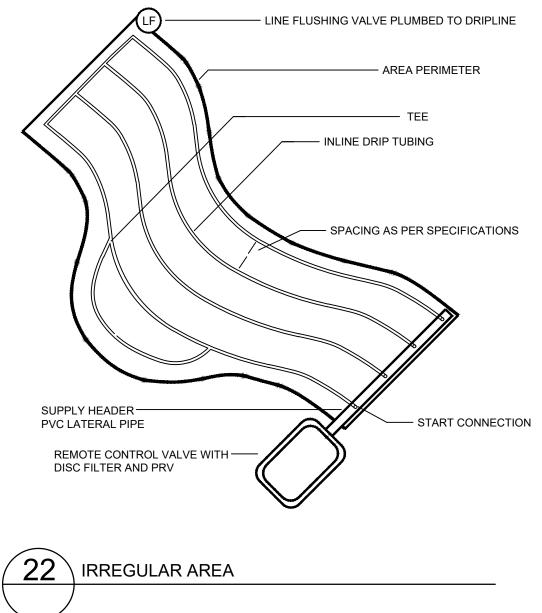


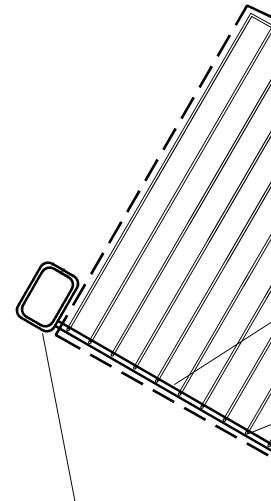














STAINLESS STEEL HEATED BACKFLOW ENCLOSURE INSTALLED AS PER MANUFACTURER

INSTALL WATER METER AND BACKFLOW PREVENTER AS PER ALL APPLICABLE CODES.

CONCRETE BASE. INSTALL AS PER - ENCLOSURE MANUFACTURERS INSTALLATION INSTRUCTIONS.

FILUME FLUSHING VALVE PLUMBED TO PVC OR POLY AREA PERIMETER DRIPLINE TUBING EXHAUST HEADER TEE PVC LATERAL PIPE VC LATERAL PIPE		CROSLAND Image: Source of the source of
		ENHANCED IRRIGATION DETAILS ENHANCED IRRIGATION DETAILS PUBLIX AT WALLBROOK AND VALLBROOK ROADWAY IMPROOK AND YALLBROOK ROADWAY IMPROOK AND Town of Rolesville Project No. SDP 23-05 & CID 23-01 SMain St. / US 401 and Virginia Water Drive Rolesville Project No. SDP 23-05 & CID 23-01 SMain St. / US 401 and Virginia Water Drive
		VC License: P-1199 SULTING UP, PLLC S& PLANNERS S& PLANNERS
	10/26/2023	Project Manager: BCF Drawn By: DLC Checked By: STA Project Number: 21089 / 22012 Drawing Number: D-1219-CD Date: October 26, 2023 IR1188

GEI	NERAL
1.	THESE GENERAL NOTES ARE NOT INTENDED TO REPLACE SPE

- ESE GENERAL NOTES ARE NOT INTENDED TO REPLACE SPECIFICATIONS (IF PROVIDED). SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION THE GENERAL NOTES. DO NOT SCALE DIMENSIONS FROM DRAWINGS. THE CONTRACTOR SHALL REQUEST NECESSARY DIMENSIONS NOT SHOWN ON THE DRAWINGS.
- WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS EVEN THOUGH NOT SPECIFICALLY REFERENCED ON THE DRAWINGS
- WHERE A CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS OCCURS THE MORE STRINGENT REQUIREMENT SHALL APPLY. IF ANY BIDDER IS IN DOUBT AS TO THE INTENT OF THE DRAWINGS OR SPECIFICATIONS, THEY SHALL REQUEST AN INTERPRETATION IN WRITING PRI
- TO THE SCHEDULED BID DATE. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND GRADE CONDITIONS (BOTH NEW AND EXISTING), REPORTING ANY DISCREPANCI
- TO THE ENGINEER OF RECORD PRIOR TO FABRICATION OR PROCEEDING WITH STRUCTURAL WORK. THE CONTRACTOR SHALL COMPARE THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS, AND REPORT ANY DISCREPANCIES TO THE
- ENGINEER OF RECORD PRIOR TO FABRICATION OR PROCEEDING WITH STRUCTURAL WORK. SEE ARCHITECTURAL DRAWINGS FOR FLOOR ELEVATIONS, FLOOR SLOPES, AND THE LOCATION OF DEPRESSED FLOOR AREAS.

CONTRACTOR RESPONSIBILITY

- THE STRUCTURAL DRAWINGS AND SPECIFICATIONS (IF PROVIDED) REPRESENT THE FINISHED STRUCTURE, AND, EXCEPT WHERE SPECIFICALLY SHOW DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE. ALL APPLICABLE SAFETY REGULATIONS TO I FOLLOWED STRICTLY.
- THE STRUCTURE HAS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETED STRUCTURE. APPLICATIONS OF CONSTRUCTION LOADS TO PARTIALLY COMPLETED STRUCTURE SHALL BE CONSIDERED BY THE CONTRACTOR AND SO INCLUDED IN THE DESIGN OF SHORING, BRACING, FORMWORK, AND ANY OTHER SUPPORTING ELEMENTS PROVIDED FOR CONSTRUCTION OF THE STRUCTURE. DURING ERECTION AND UNTIL ALL PERMANENT CONNECTIONS ARE MADE, THE CONTRACTOR MUST PROVIDE TEMPORARY BRACING FOR THE STRUCTURE IN ALL DIRECTIONS UNTIL THE STRUCTURAL WORK IS COMPLETE.
- ALL INTERIOR HANGING COMPONENTS (CEILING, DUCTWORK, PIPING, EQUIPMENT, ETC.) SHALL BE COORDINATED BY THE CONTRACTOR TO ENSURE LOADS APPLIED TO THE STRUCTURE DO NOT EXCEED THE LIMITS SHOWN IN THE DESIGN CRITERIA OR ELSEWHERE IN THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY OF THE CONNECTIONS TO THE SUPPORTING STRUCTURAL ELEMENTS AND THE ADEQUACY THE HANGING SYSTEM TO SUPPORT THE COMPONENTS.
- ALL ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING COMPONENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS, THAT FRAME TO THE UNDERSIDE OF STRUCTURE ABOVE, SHALL BE DETAILED AND FRAMED BY THE CONTRACTOR TO ALLOW FOR DEFLECTION OF THE STRUCTURAL FRAMI SEE THE DESIGN CRITERIA FOR THE LIMITS USED IN THE DESIGN.
- PRINCIPAL OPENINGS IN THE STRUCTURE ARE SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL, MECHANICAL ELECTRICAL, AND PLUMBING DRAWINGS FOR ALL REQUIRED OPENINGS. SUPPORT FRAMING FOR ALL OPENINGS SHALL BE PROVIDED AND INSTALLED TYPICAL DETAILS HEREIN WHETHER SHOWN ON THESE DRAWINGS OR NOT. THE CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ALL SUBCONTRACTORS AND THEIR APPROVED SHOP DRAWINGS PRIOR TO CONSTRUCTION.
- ALL EXTERIOR WALL AND ROOF COMPONENTS AND CLADDING ENGINEERED BY THE COMPONENT MANUFACTURER ARE TO BE DESIGNED BY THE MANUFACTURER'S ENGINEER FOR COMPONENTS AND CLADDING WIND LOADS NOTED IN THE DESIGN CRITERIA.
- ALL ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING COMPONENTS ARE TO BE ATTACHED AS REQUIRED BY ASCE/SEI 7 CHAPTER 13, "SEISMIC DESIGN REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS". EACH INDIVIDUAL CONTRACTOR RESPONSIBLE FOR THE COMPONENT MUST PROVIDE PROJECT SPECIFIC DESIGN AND DOCUMENTATION PREPARED BY AN ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATE CHAPTER 13 DEFINES THE FORCE REQUIRED TO SUPPORT THE COMPONENT FOR THE ANCHORAGE AND BRACING. THE COST OF PREPARING THIS INFORMATION AND DESIGN SHALL BE INCLUDED IN EACH CONTRACTOR'S BID THAT IS PROVIDING THE COMPONENT.
- SEVERAL ITEMS NOTED HEREIN (WHERE CHECKED) AND IN THE SPECIFICATIONS REQUIRE THE CONTRACTOR TO ENGAGE A PROFESSIONAL ENGINEE LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED, TO PROVIDE DESIGN AND/OR DETAILING OF STRUCTURAL ELEMENTS. SEE INDIVIDUAL NOTES AND SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. DELEGATED DESIGN ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO:
- □ SPECIALTY FOUNDATION SYSTEM
- POST-TENSIONED CONCRETE STRUCTURAL PRECAST CONCRETE
- □ ARCHITECTURAL PRECAST CONCRETE
- □ STRUCTURAL STEEL (CONNECTIONS)
- PREFABRICATED METAL BUILDING **X** STEEL STAIRS AND RAILINGS
- □ STEEL JOISTS AND STEEL JOIST GIRDERS
- □ ROOF ANCHORS
- NON-LOAD BEARING COLD-FORMED STEEL □ LOAD BEARING COLD-FORMED STEEL
- □ LIGHT GAUGE COLD-FORMED STEEL TRUSSES
- PREFABRICATED WOOD TRUSSES П
- MECHANICALLY STABILIZED EARTH WALLS PERMANENT SOIL SHORING RETENTION SYSTEM

THIS PROJECT REQUIRES SPECIAL INSPECTIONS AS DESCRIBED IN CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE. SEE STATEMENT OF SPECIAL INSPECTIONS FOR REQUIRED INSPECTIONS. CONTRACTOR SHALL COORDINATE WITH SPECIAL INSPECTOR ALL WORK REQUIRING SPECIAL INSPECTIO AND TESTING.

DES	SIGN CRITERIA					
1.	PROJECT LOCATION: ROLESVILLE, NORTH	H CAROLINA				
2.	APPLICABLE CODES:					
			NAL BUILDING CODE WITH REVISIONS)			
	MINIMUM DESIGN LOADS FOR BUIL					
	BUILDING CODE REQUIREMENTS FC					
			ONRY STRUCTURES (ACI 530 530.1-13)			
	SPECIFICATION FOR STRUCTURAL S					
I	NATIONAL DESIGN SPECIFICATION					
-		FOR THE DESIGN OF COL	D-FORMED STEEL STRUCTURAL MEMBERS (AISI S100-12)			
3.	RISK CATEGORY: II					
4.	LIVE LOADS:					
I	DADI/INIC	UNIFORM (PSF)	CONCENTRATED (LB)			
	PARKING	40	3000			
-	STAIRS	100	300			
5.						
	GROUND SNOW LOAD	$p_g = 15 PSF$				
	IMPORTANCE FACTOR	$I_{s} = 1.00$				
	SNOW EXPOSURE FACTOR	$C_{e} = 1.00$				
	THERMAL FACTOR	$C_{t} = 1.00$				
~	FLAT SNOW ROOF LOAD	$p_f = 15 PSF$				
6.	WIND LOAD:					
	ULTIMATE DESIGN WIND SPEED		DMINAL DESIGN WIND SPEED, $V_{asd} = 89$ MPH)			
	SERVICEABILITY WIND SPEED	•	RECURRENCE INTERVAL OF 10 YEARS)			
	EXPOSURE CATEGORY	B				
-	INTERNAL PRESSURE COEFFICIENTS	±0.18				
7.	SEISMIC LOAD:					
	DESIGN METHOD - EQUIVALENT LATERAL					
	Ss	14.4 %g				
	S ₁	7.3 %g				
	S _{DS}	15.4 %g				
	S _{D1}	11.6 %g				
	IMPORTANCE FACTOR	$I_e = 1.00$				
	SITE CLASS	D (ASSUMED)				
8.	SEISMIC DESIGN CATEGORY	В				
о.	FUTURE LOADS:					
	UNLESS SPECIFICALLY NOTED, THERE ARE NO PROVISIONS MADE FOR FUTURE FLOORS, ROOFS, OR OTHER LOADS.					

FUU	NDATIONS	ADHESIV	E AND M
1. 2.	FOUNDATION DESIGN IS BASED ON A PRESUMPTIVE NET ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF, ACCORDING TO TABLE 1806.2 OF THE INTERNATIONAL BUILDING CODE. THIS PRESUMPTIVE BEARING PRESSURE MUST BE FIELD VERIFIED BY A GEOTECHNICAL ENGINEER PRIOR TO FOUNDATION CONCRETE PLACEMENT. THE STRUCTURE AND SITE SATISFY THE FOLLOWING CRITERIA FOR THE USE OF TABLE 1806.2: COLUMN LOADS ARE LESS THAN 50 KIPS, WALL LOADS ARE LESS THAN 3 KLF, AND FINISHED GRADES DO NOT DIFFER FROM NATURAL GRADE BY MORE THAN 5 FEET. FOOTINGS SHALL BE CARRIED TO LOWER ELEVATIONS THAN THOSE SHOWN ON THE DRAWINGS IF REQUIRED BY THE GEOTECHNICAL ENGINEER OR TESTING LAB TO REACH SOIL CAPABLE OF PROVIDING THE DESIGN NET ALLOWABLE SOIL BEARING PRESSURE. ALL EXPANSIVE AND/OR LOOSE SOILS	CONC ENGI 2. PRE-/ POST	IOR BOLT CRETE WI NEER OF APPROVEI -INSTALL JFACTURI
3.	BELOW STRUCTURAL FOUNDATIONS SHALL BE REMOVED AND REPLACED AS DIRECTED HEREIN. MINIMUM SUBGRADE PREPARATION REQUIREMENTS ARE AS FOLLOWS: 1. PREPARE SUBGRADE AND UNDERFLOOR FILL TO A POINT THAT EXTENDS 3'-0" (MINIMUM) BEYOND THE LIMITS OF THE FOUNDATIONS.	PROV SPEC FOR S	/IDE SIGN IFIED AN SEISMIC
4.	 PLACE IN LIFTS OF 8" (MAXIMUM) LOOSE THICKNESS WHEN USING LARGE RIDING COMPACTORS (REDUCE THICKNESS AS NECESSARY FOR SMALLER EQUIPMENT). SLABS ON GRADE SHALL BE SUPPORTED ON A BASE LAYER OF POROUS FILL (WASHED STONE OR CLEAN SAND) WITH A MINIMUM THICKNESS OF 4". FIELD COMPACTION SHALL BE VERIFIED WITH AT LEAST ONE TEST PER 2,000 SQUARE FEET PER LIFT (AT LEAST ONE PER LIFT), IN ACCORDANCE WITH 	AND 3. BASIS	IOR EVAL DRILLIN S OF DES IRATED C
5.	ASTM D1556 (SAND-CONE METHOD), ASTM D6938 (NUCLEAR METHODS, SHALLOW DEPTH), ASTM D2167 (RUBBER BALLOON METHOD), AND/OR ASTM D2937 (DRIVE-CYLINDER METHOD). SEE SPECIFICATIONS FOR OTHER TESTING REQUIREMENTS. WALLS RETAINING SOIL SHALL BE TEMPORARILY BRACED DURING BACKFILLING AND UNTIL ALL SUPPORTING SOIL AND SLABS ARE IN PLACE AND ARE AT	SYST 4. INST WAR	'EM, OR C ALL ANCH NINGS. II
6.	DESIGN STRENGTH UNLESS NOTED OTHERWISE ON PLANS AND DETAILS. WALLS RETAINING SOIL HAVE BEEN DESIGNED UTILIZING THE FOLLOWING PARAMETERS: MOIST SOIL UNIT WEIGHT 120 PCF ACTIVE PRESSURE COEFFICIENT 0.33	INST/ 5. ANCH ANCH	ATER THA ALLATION IOR CAPA IORS IN A
7.	AT-REST PRESSURE COEFFICIENT 0.55 PASSIVE PRESSURE COEFFICIENT 2.50 COEFFICIENT OF FRICTION 0.25 UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER. CONTRACTOR SHALL	STRI0 TUBE	re adhes Ct accoi S suppli He draw
	SUBMIT DETAILED DRAWINGS OF ALL SUCH CONDITIONS PRIOR TO CONSTRUCTION.	AND ALTE	FRACTOR SHALL H RNATIVE NING FOR
CON	ICRETE REINFORCING STEEL		HE ENGIN
1.	ALL CONCRETE DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REFERENCED EDITION OF THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318).		
2.	CONCRETE MIXTURES AS REQUIRED (BASED ON CLASS DESIGNATION):CLASS A - FOOTINGS, GRADE/TIE BEAMSNWC3,000 PSICLASS B - FOUNDATION WALLSNWC4,500 PSICLASS F - EXTERIOR SLABS ON GRADE, PADS, TOPPINGSNWC4,500 PSI	1. THE U	
3.	CLASS J - EXTERIOR SLABS ON GRADE, PADS, TOPPINGS NWC 4,500 PSI CLASS J - EXTERIOR RETAINING WALLS NWC 4,500 PSI REINFORCING: TYPICAL - ASTM A615, GRADE 60		EU OF PR
	REINFORCING TO BE WELDED - ASTM A706 DEFORMED BAR ANCHORS - ASTM A496	ABBREVI	ATIONS
4.	WELDED WIRE FABRIC - ASTM A1064 (FLAT SHEETS ONLY) REFER TO THE DRAWINGS FOR REINFORCING LAP REQUIREMENTS. WHERE LAP SPLICES ARE NOT SHOWN, LAP PER ACI 318 OR CRSI STANDARDS.	@	
	LAP WELDED WIRE FABRIC SHEETS 8" MINIMUM. CLEAR COVER FROM FACE OF CONCRETE: CAST IN PLACE CONCRETE (MEASURE TO OUTERMOST REINFORCING) -	& Ø AB	AND DIAME ANCHO
	CAST IN PLACE CONCRETE (MEASURE TO OUTERMOST REINFORCING) - CONCRETE CAST AGAINST AND EXPOSED TO EARTH 3" CONCRETE EXPOSED TO EARTH/WEATHER 2" FOR #6 BARS AND LARGER, 1 1/2" ELSE	AD ACI ADDL	AMERI
7.	CONCRETE EXPOSED TO LARTH/WEATHER 2 FOR #0 BARS AND LARGER, 1 1/2 LESE CONCRETE NOT EXPOSED TO EARTH/WEATHER 3/4" FOR SLABS AND WALLS, 1 1/2" (TO TIES) FOR BEAMS AND COLUMNS PROVIDE REINFORCING IN SLABS ON GRADE, 1-1/2" FROM TOP OF SLAB:	ADDL ADH AFF	ADHES
) '. '.	4" SLABS 6x6-W2.1xW2.1 5" SLABS 6x6-W2.9xW2.9	AISC	AMERI
8.	6" SLABS #3@12"OC EACH WAY WHERE SCHEDULED BARS ARE NOT PRESENT, PROVIDE CONTINUOUS #5 TOP AND BOTTOM BARS TO SUPPORT STIRRUPS AS REQUIRED FOR THE LENGTH	ALT ARCH	ALTER
9.	OF THE STIRRUP SPACING IN ALL BEAMS. WALL FOOTING REINFORCING SHALL BE CONTINUOUS THROUGH ADJACENT COLUMN FOOTINGS.	ASTM AWS	AMERI AMERI
10.	PROVIDE VERTICAL DOVETAIL SLOTS AT 24"OC WITH TIES AT 16"OC VERTICALLY IN ALL CONCRETE WALLS BACKING-UP MASONRY VENEER. BAR SUPPORTS FOR CONCRETE EXPOSED TO VIEW SHALL HAVE PLASTIC COATED LEGS OR BE HOT-DIP GALVANIZED AFTER FABRICATION.	B/ or BOT BCX	
12.	MECHANICAL AND ELECTRICAL CONDUIT IN SLABS ON GRADE SHALL RUN UNDER TOP LAYER OF SLAB REINFORCING. PROVIDE A MINIMUM OF 1-1/2" CLEAR BETWEEN CONDUITS AND BETWEEN REINFORCING AND ADJACENT CONDUITS PARALLEL TO REINFORCING. IF MAXIMUM SIZE OF CONDUIT	BFB BFF	BOTTO BELOW
13.	EXCEEDS ONE THIRD OF THE SLAB DEPTH, ADDITIONAL FRAMING OR REINFORCING MAY BE NECESSARY AT ENGINEER'S DISCRETION. HEADED CONCRETE ANCHORS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A108, GRADES 1010, 1015, 1017, OR 1020. STUDS SHALL BE	BLDG BM	BUILDI BEAM
14.	AUTOMATICALLY END WELDED IN THE SHOP OR FIELD IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. EMBED PLATES MUST BE SET IN THE FORM BEFORE POURING CONCRETE, NOT PLACED INTO TOP OF WET CONCRETE. THE CONTRACTOR SHALL CONTACT	BOS BRG BTWN	BOTTO BEARII
15.	THE ARCHITECT FOR CORRECTIVE DETAILS FOR ANY EMBED PLATES LEFT OUT OF CONCRETE POURS. FOR SLABS ON GRADE, SLAB AND FOOTING REINFORCING SHALL BE HELD IN PLACE BY BAR SUPPORTS WITH SAND PLATES, OR PRECAST CONCRETE BAR SUPPORTS AS DESCRIBED IN CHAPTER 3 OF THE CRSI MANUAL OF STANDARD PRACTICE. BAR SUPPORTS SHALL BE SPACED AT A MAXIMUM OF 4'-0"OC	CANT CJ	BETWE CANTII CONTR
16.	BOTH WAYS. ROCKS, CMU, OR CLAY BRICK WILL NOT BE USED AS SUPPORTS. REBAR SHALL NOT BE HEATED WITH A TORCH IN THE FIELD.	CL CLR	CENTE CLEAR
17.	THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER FAR ENOUGH IN ADVANCE (48 HOURS) OF EACH CONCRETE POUR TO ALLOW AMPLE TIME TO CHECK THE LAYOUT OF THE STEEL BEFORE THE BEGINNING OF THE ACTUAL POUR, BUT NOT PRIOR TO 90% OF THE STEEL HAVING BEEN PLACED.	CMU COL CONC	CONCF COLUM CONCF
CON	ICRETE CONSTRUCTION JOINTS	CONN CONST JT CONT CONTR	CONNE CONST CONTI CONTR
1.	CONTRACTOR SHALL PROVIDE NECESSARY CONSTRUCTION JOINTS IN MONOLITHIC CONCRETE POURS SO THAT THE QUALITY OF PLACEMENT AND FINISH MEETS THE REQUIREMENTS OF PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT A PLAN SHOWING THE LOCATION OF ALL CONSTRUCTION JOINTS TO THE STRUCTURAL ENGINEER FOR APPROVAL.	COORD CTRD d	COORE CENTE NAILS
2.	THERE SHALL BE NO HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE POURS. ALL VERTICAL CONSTRUCTION JOINTS IN SLABS AND BEAMS SHALL BE MADE WITH BULKHEADS. ADDITIONAL REINFORCING AT CONSTRUCTION JOINTS SHALL BE AS SPECIFIED BY THE STRUCTURAL ENGINEER. SEE TYPICAL CONSTRUCTION JOINT DETAILS.	DBA DEFL DEPR DET	DEFOR DEFLE DEPRE DETAII
MFC	HANICALLY STABILIZED EARTH WALLS	DIAG DIM DIST	DIAGO DIMEN DISTAI
	PRECAST CONCRETE DESIGN AND FABRICATION SHALL CONFORM TO THE REFERENCED EDITION OF BUILDING CODE REQUIREMENTS FOR STRUCTURAL	DWG(S) DWL(S)	DRAW DOWE
2.	CONCRETE (ACI 318). THE DESIGN SHALL BE PERFORMED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED. DESIGN CALCULATIONS, STAMPED BY THE REGISTERED ENGINEER, SHALL BE SUBMITTED FOR REVIEW OF THE ENGINEER UPON REQUEST. THE DESIGN AND DETAILING OF ALL SOIL REINFORCING ELEMENTS AND PRECAST CONCRETE AND ITS CONNECTIONS SHALL BE THE RESPONSIBILITY OF	EA EE EF	EACH EACH I EACH I
3.	THE MSE FABRICATOR. THIS SHALL INCLUDE ALL BOLTS, PLATES, BRACES, REINFORCING, WELD SIZES, AND ANY EMBEDDED ITEMS IN BOTH PRECAST AND SOIL REINFORCING FABRIC WALL. ALL ELEMENTS SHOWN ON THE DRAWINGS ARE CONCEPTUAL IN NATURE AND FOR BIDDING PURPOSES ONLY. ALL PRECAST MEMBERS SHALL HAVE AT LEAST TWO CONNECTIONS PER MEMBER. MAXIMUM SPACING OF CONNECTIONS SHALL BE 36"OC. ALL EXPOSED CONNECTORS SHALL BE HOT-DIP GALVANIZED OR STAINLESS STEEL. ADDITIONAL REINFORCING SHALL BE ADDED TO PRECAST MEMBERS AS REQUIRED	EJ ELEV EMBED ENGR	EXPAN ELEVA EMBED ENGIN
4.	FOR ERECTION STRESSES AS WELL AS STRESSES INDUCED BY THE CONNECTIONS. DESIGN MODIFICATIONS MAY BE MADE ONLY AS NECESSARY TO MEET FIELD CONDITIONS AND TO ENSURE PROPER FITTING OF THE WORK, AND ONLY AS ACCEPTABLE TO THE ENGINEER. MAINTAIN GENERAL DESIGN CONCEPT SHOWN WITHOUT INCREASING OR DECREASING SIZES OF MEMBERS OR ALTERING PROFILES AND ALIGNMENT SHOWN.	ENGR EOD EOS EQ EQUIP	EDGE (EDGE (EQUAL EQUIP
L		EW EXIST EXP	EACH V EXISTI EXPAN
	EL STAIRS AND RAILINGS	EXT FDN	EXTER FOUND
1.	STEEL STAIRS AND LANDINGS AND ALL CONNECTIONS SHALL BE DESIGNED BY THE SUPPLIER FOR A LIVE LOAD OF 100 PSF. TREADS SHALL BE DESIGNED FOR A 300 POUND POINT LOAD DISTRIBUTED OVER 4 SQUARE INCHES. ALL STAIR SHOP DRAWINGS SHALL BEAR THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED. CALCULATIONS SHALL BE SUBMITTED FOR REVIEW WITH THE STAIR SHOP DRAWINGS.	FFE FOM FOW FS	FINISH FACE (FACE (FAR SI
2.	ALL RAILINGS (STEEL OR OTHERWISE) AND THEIR CONNECTIONS SHALL BE DESIGNED FOR A LATERAL LOAD OF 50 PLF APPLIED TO THE TOP OF THE RAIL OR A 200 POUND LOAD AT ANY POINT IN ANY DIRECTION, WHICHEVER GOVERNS THE DESIGN. ALL RAILING SHOP DRAWINGS SHALL BEAR THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED. CALCULATIONS SHALL BE SUBMITTED FOR	FS FTG GA GALV	FAR SI FOOTII GAUGE GALVA

MONOFILAMENT FIBERS (AT A MINIMUM DOSAGE RATE OF 1.0 LBS/CY) OR 4x4-W1.4xW1.4 WELDED WIRE FABRIC. THE CONTRACTOR SHALL COORDINATE THIS SCOPE BETWEEN THE CONCRETE AND STEEL STAIR SUPPLIERS.

	SYMBOL LEGEND				
SYMBOL	MEANING	REFERENCE			
<no></no>	TOP OF FOOTING, GRADE BEAM, PILE CAP, OR DRILLED PIER. ELEVATION RELATIVE TO REFERENCE ELEVATION.	SEE PLAN			
< <u>No> <no></no></u>	STEP IN TOP OF FOOTING ELEVATION. ELEVATION RELATIVE TO REFERENCE ELEVATION.	SEE PLAN			
[No]	TOP OF WALL OR PEDESTAL. ELEVATION RELATIVE TO REFERENCE ELEVATION.	SEE PLAN			
•	SPOT ELEVATION. ELEVATION RELATIVE TO REFERENCE ELEVATION.	SEE PLAN			

NICAL POST-INSTALLED ANCHORS

INFORCING STEEL, THREADED RODS, STAIR HANDRAILS, AND OTHER EMBEDDED STEEL ITEMS SHALL BE SET INTO HARDENED DHESIVE OR MECHANICAL POST-INSTALLED ANCHORS ONLY WHERE DETAILED ON THE DRAWINGS OR WHERE APPROVED BY THE

NUFACTURERS ARE HILTI, SIMPSON STRONG-TIE, AND DEWALT. WHERE DETAILS INDICATE SPECIFIC ADHESIVE OR MECHANICAL ANCHORS, IT IS ACCEPTABLE AT THE CONTRACTOR'S OPTION TO SUBMIT AN ALTERNATE SIMILAR PRODUCT PROVIDED BY A DIFFERENT 5 LONG AS THE MANUFACTURER'S DATA PROVIDES EQUIVALENT LOAD CAPACITY TO THE ANCHOR SPECIFIED. THE CONTRACTOR SHALL AND SEALED CALCULATIONS THAT DEMONSTRATE THE ALTERNATE PRODUCT IS CAPABLE OF MEETING THE PERFORMANCE OF THE R. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC-ESR SHOWING COMPLIANCE WITH THE GOVERNING BUILDING CODE LOAD RESISTANCE, INSTALLATION CATEGORY, AND THE AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ON WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE, INSTALLATION TEMPERATURE, MOISTURE CONDITION OF CONCRETE, THODS.

FOR ADHESIVE ANCHORS DETAILED ON THE DRAWINGS INCLUDES THE FOLLOWING PARAMETERS: CRACKED CONCRETE; WATER-RETE; BASE MATERIAL BETWEEN 25 AND 100 DEGREES FAHRENHEIT; AND HOLES MADE BY HAMMER DRILL, HOLLOW DRILL BIT -DRILLING.

PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING. HEED ALL LABEL ALL IN ACCORDANCE WITH APPLICABLE SAFETY LAWS. ALL HOLES SHALL BE DRILLED WITH A DIAMETER NO LARGER THAN 1/8" E DIAMETER OF THE ANCHOR BEING INSTALLED. ALL HOLES SHALL BE CLEANED WITH COMPRESSED AIR AND SHALL BE DRY PRIOR TO ADHESIVE. HOLES SHALL BE FREE OF ALL DELETERIOUS MATERIAL SUCH AS LAITANCE, DUST, DIRT, AND OIL. ' IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL

RDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS. ANCHORS ARE TO BE INSTALLED IN HOLLOW MATERIAL WITH UNKNOWN CAPACITY, THE CONTRACTOR SHALL INSTALL THE ANCHOR IN ICE WITH MANUFACTURER'S INSTRUCTIONS. THE ADHESIVE SHALL BE INSTALLED IN THE HOLLOW BASE MATERIAL USING SCREEN Y THE MANUFACTURER. THE ADHESIVE SHALL BE CAPABLE OF SUSTAINING MINIMUM TENSION AND SHEAR LOAD CAPACITIES NOTED MULTIPLIED BY A FACTOR OF SAFETY OF 4. ALL HARDWARE AND MATERIAL SHALL BE SUPPLIED BY THE ANCHOR MANUFACTURER. ORMING ADHESIVE WORK SHALL BE AN APPROVED CONTRACTOR BY THE MANUFACTURER FURNISHING THE ADHESIVE MATERIALS, NO LESS THAN FIVE YEARS EXPERIENCE IN THE VARIOUS TYPES OF ADHESIVE RELATED WORK REQUIRED IN THIS PROJECT. HE CONTRACTOR SHALL ARRANGE FOR A REPRESENTATIVE OF THE ANCHOR MANUFACTURER TO PROVIDE ONSITE INSTALLATION ANCHOR PRODUCTS SPECIFIED. DOCUMENTATION THAT ALL PERSONNEL INSTALLING ANCHORS ARE TRAINED SHALL BE SUBMITTED OR RECORD PRIOR TO THE COMMENCEMENT OF ANCHOR INSTALLATION.

DUCTIONS OF THESE CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER ATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT, AND OBLIGATES OB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HERE ON.

HD

HORIZ

HSS

LWC

MECH

MISC MOW MP MSE

No or # NS

NTS NWC l oc OPNG

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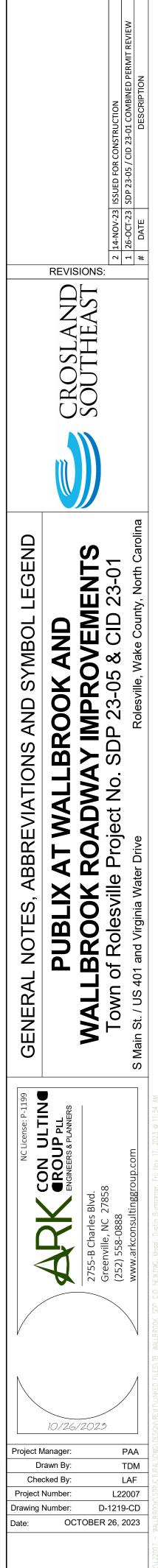
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'S NCRETE INSTITUTE
IED FLOOR STITUTE OF STEEL CONSTRUCTION DN AND STEEL INSTITUTE
/ ARCHITECTURAL CIETY FOR TESTING AND MATERIALS ELDING SOCIETY
RD EXTENSION GE BRACE HED FLOOR
TEEL
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') AR ANCHOR / DEPRESSED
DINT EMBEDMENT K 3
OR ELEVATION DNRY -

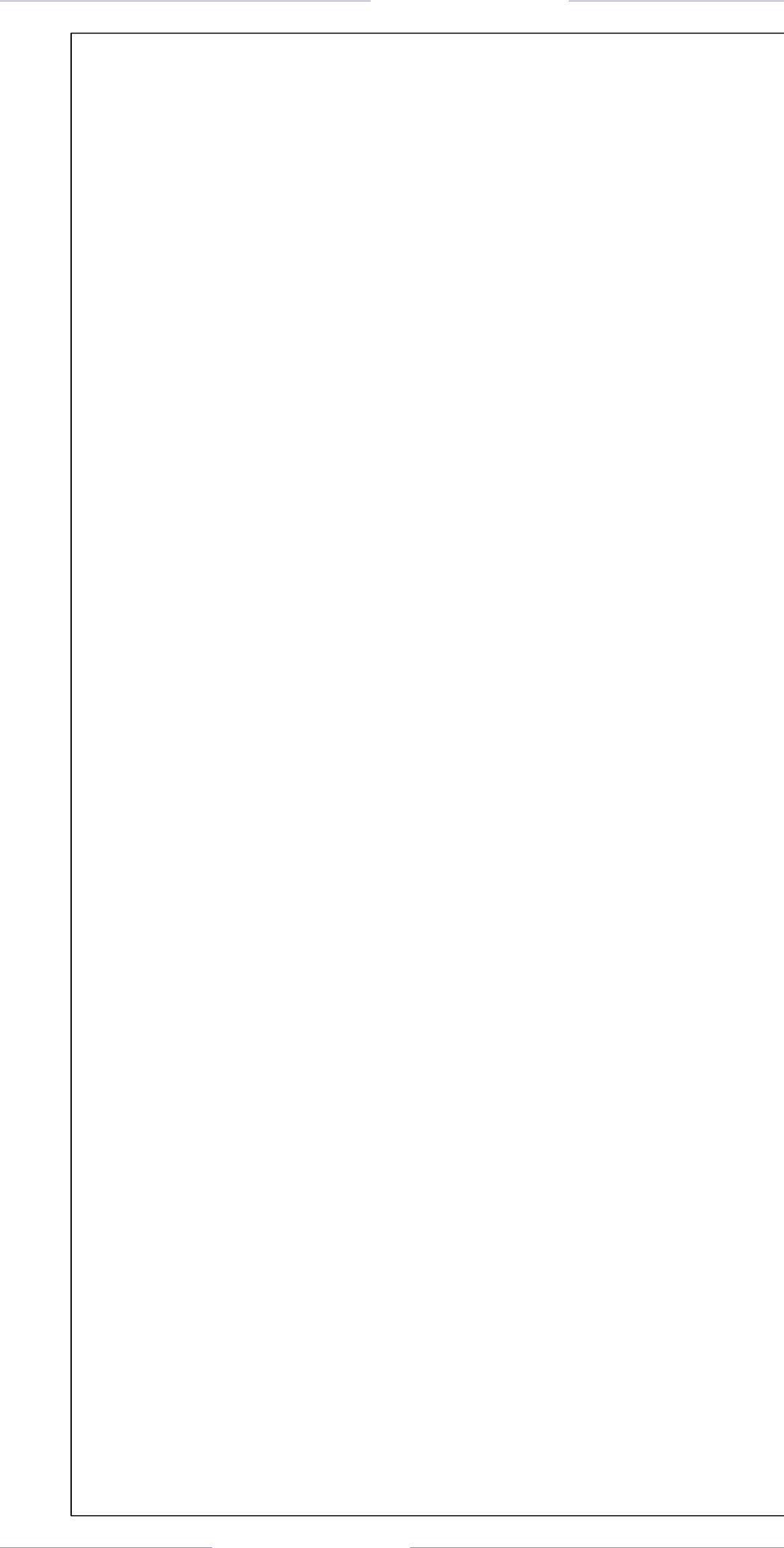
HEADED
HIGH
HORIZONTAL
HOLLOW STRUCTURAL SECTION
INTERIOR
JOINT
KIP(S)
KNEE BRACE
KIPS PER SQUARE INCH
LONG BAR
POUNDS
LONG LEG HORIZONTAL
LONG LEG VERTICAL
LOW
LOCATION
LONG SIDE HORIZONTAL
LONG SIDE VERTICAL
LIGHT WEIGHT CONCRETE
MAXIMUM
MOMENT CONNECTION
MASONRY CONTROL JOINT
MECHANICAL
MANUFACTURER
MIDDLE
MINIMUM
MISCELLANEOUS
MIDDLE OF WALL
MASONRY PILASTER
MECHANICALLY STABILIZED EARTH WALLS
NUMBER
NEAR SIDE
NOT TO SCALE
NORMAL WEIGHT CONCRETE
ON CENTER
OPENING
OPPOSITE HAND
POWDER ACTUATED FASTENER
PEDESTAL
PLATE
POUNDS PER SQUARE FOOT
POUNDS PER SQUARE INCH
PRESSURE TREATED
POST-TENSIONED
REFERENCE
REINFORCING
REQUIRED
SHORT BAR
SCHEDULE
SIMILAR
SLAB ON GRADE
SPECIFICATION(S)
SQUARE
STANDARD
STIFFENER
STIRRUP(S)
STEEL
STRUCTURAL
ТОР
TOP CHORD EXTENSION
TOP CHORD CONCRETE
TOP OF FOOTING
TOP OF STEEL
TOP OF WALL
TYPICAL
UNLESS NOTED OTHERWISE
VERTICAL
VERIFY IN FIELD
VERIFY IN FIELD WITH







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REQUIREMENTS OF THE INTERNAT	IONAL BUILDING CODE. IT INCLUDES A SC	CHEDULE OF SPECIAL INSPECT	CCORDANCE WITH THE SPECIAL INSPECTION TION SERVICES APPLICABLE TO THIS PROJEC ICTING SPECIAL INSPECTIONS, AND THE REC	T, THE		<u>INS</u> 1.	<u>SPECTIC</u> CONS AND S
INSPECTOR QUALIFICATIONS. THIS	STATEMENT OF SPECIAL INSPECTIONS W	AS PREPARED BY THE DESIG	•		□ X	2. 3.	UNUS MATE ADDI
APPROVED CONSTRUCTION DOCUM CORRECTION. IF SUCH DISCREPAN	IENTS. DISCOVERED DISCREPANCIES SHA CIES ARE NOT CORRECTED, THE DISCREP	LL BE BROUGHT TO THE IMME ANCIES SHALL BE BROUGHT 1	AS NOT COMPLETED IN CONFORMANCE WITH EDIATE ATTENTION OF THE CONTRACTOR FO TO THE ATTENTION OF THE OWNER AND THE HIS OR HER RESPONSIBILITIES. JOB SITE SA	R		4. 5. 6.	CONT PILES SPRA MAST
AND MEANS AND METHODS OF CO	L BE SUBMITTED TO THE CONTRACTOR, O	BILITY OF THE CONTRACTOR.				0. 7. 8.	SMOK RETAI
INSPECTIONS DOCUMENTING COM SUBMITTED PRIOR TO ISSUANCE C		ECTIONS, TESTING, AND COR	RECTION OF ANY DISCREPANCIES SHOULD E	E			B. (
PROJECT INFORMATION CODE ENFORCEMENT PROJECT #: PERMIT #:	TBD TBD						C. D.
PROJECT NAME: PROJECT ADDRESS: OWNER:	WALLBROOK SHOPPING CENTER ROLESVILLE, NORTH CAROLINA 						E
OWNER ADDRESS: SPECIAL INSPECTOR OF RECORD: SPECIAL INSPECTOR ADDRESS:	 TBD 						FOR S
DESIGN TEAM STRUCTURAL (RDPIRC) FIRM:	STEWART	ENGINEER OF RECORD:	TRINA AGNELLO, PE				APPLI ADDI SCHE
ARCHITECTURAL FIRM: MECHANICAL FIRM:		ARCHITECT OF RECORD: ENGINEER OF RECORD:	, AIA , PE				INSPE

SCHEDULE OF SPECIAL INSPECTIONS

STATEMENT OF SPECIAL INSPECTIONS

THE INSPECTION AND TESTING AGENTS SHALL BE ENGAGED BY THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE OWNER, PRIOR TO COMMENCING WORK.

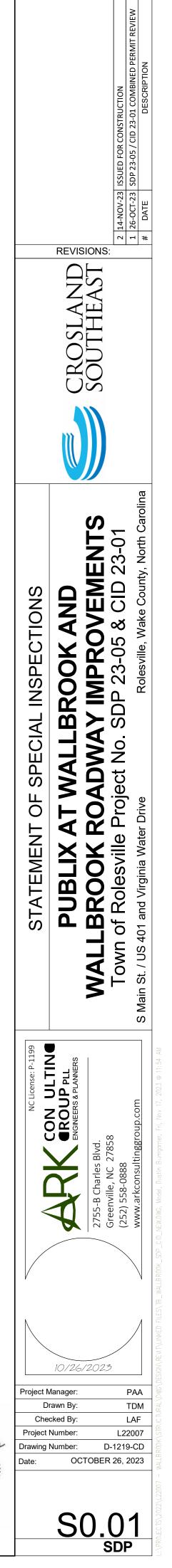
PRIOR TO STARTING WORK THE OWNER SHALL BE PROVIDED WITH THE NAME AND RESUME FOR THE DESIGNATED SPECIAL INSPECTOR FOR THE PROJECT. THE DESIGNATED SPECIAL INSPECTOR SHALL BE A PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED AND BE APPROVED BY THE OWNER. INDIVIDUALS PROVIDING INSPECTIONS SHALL MEET THE FOLLOWING MINIMUM CRITERIA OF CERTIFICATION AND/OR DOCUMENTED EXPERIENCE. WORK EXPERIENCE MUST BE RELATED TO THE FIELD FOR WHICH THE INSPECTOR IS BEING UTILIZED. WORK EXPERIENCE MAY BE GAINED BY WORKING FOR AN INSPECTION/TESTING AGENCY, AN ENGINEERING FIRM, OR A CONTRACTOR AS A TECHNICIAN, INSPECTOR OR ENGINEER.

THE DESIGNATED SPECIAL INSPECTOR SHALL BE RESPONSIBLE FOR COLLECTING AND APPROVING DOCUMENTATION OF QUALIFICATIONS FOR ALL INSPECTORS. COPIES OF DOCUMENTATION OF QUALIFICATIONS, INCLUDING THE QUALIFICATIONS OF THE INDEPENDENT TESTING LABORATORY IF THEY ARE PROVIDING SPECIAL INSPECTION SERVICES, SHALL BE MAINTAINED BY THE SPECIAL INSPECTOR AND BE MADE AVAILABLE FOR OWNER REVIEW AS REQUESTED.

THE FOLLOWING TABLES COMPRISE THE REQUIRED SCHEDULE OF SPECIAL INSPECTIONS FOR THIS PROJECT. THE INSPECTION FREQUENCY INDICATED ON THE TABLES ARE "C" CONTINUOUS, "P" PERIODIC, AND "O" RANDOMIZED ON A DAILY BASIS. THE CONSTRUCTION DIVISIONS WHICH REQUIRE SPECIAL INSPECTIONS FOR THIS PROJECT ARE AS FOLLOWS:

		PROJECT ARE AS FOLLOWS:	
REQD X	<u>ITEM</u> IT-1 IT-2A	DIVISION SPECIAL CASES AND SPECIFIC ELEMENTS ALWAYS REQUIRED STRUCTURAL STEEL AND HIGH-STRENGTH BOLTING	PRIMARY INSPECTOR/SUPERVISOR AS IDENTIFIED BY THE RDPIRC ICC STRUCTURAL STEEL AND BOLTING INSPECTOR CERTIFICATE
	IT-2B	WELDING OF STRUCTURAL STEEL	(PLUS ONE YEAR OF RELATED EXPERIENCE) ICC STRUCTURAL WELDING SPECIAL INSPECTOR CERTIFICATE
			(PLUS ONE YEAR OF RELATED EXPERIENCE), OR AWS D1.1 CERTIFIED WELDING INSPECTOR, OR NDT LEVEL III CERTIFICATE
	IT-2C	COLD-FORMED STEEL DECKING	ICC STRUCTURAL STEEL AND BOLTING INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE), OR ICC STRUCTURAL
			WELDING SPECIAL INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE), OR ICC COMMERCIAL BUILDING
			INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE)
	IT-2D	OPEN-WEB STEEL JOISTS AND JOIST GIRDERS	ICC STRUCTURAL STEEL AND BOLTING INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE)
	IT-2E	COLD-FORMED STEEL FRAMING	ICC STRUCTURAL STEEL AND BOLTING INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE), OR ICC STRUCTURAL
			WELDING SPECIAL INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE), OR ICC COMMERCIAL BUILDING
			INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE)
	IT-3	CONCRETE CONSTRUCTION	ICC REINFORCED CONCRETE SPECIAL INSPECTOR CERTIFICATE AND ACI CONCRETE FIELD TESTING TECHNICIAN CERTIFICATE,
			GRADE 1, OR ACI CONCRETE CONSTRUCTION SPECIAL INSPECTOR CERTIFICATE, OR NICET CONCRETE TECHNICIAN
	IT-4	MASONRY CONSTRUCTION	LEVEL III CERTIFICATE IN CONSTRUCTION MATERIALS TESTING ICC STRUCTURAL MASONRY SPECIAL INSPECTOR CERTIFICATE
	IT-5	WOOD CONSTRUCTION	(PLUS ONE YEAR OF RELATED EXPERIENCE) ICC COMMERCIAL BUILDING INSPECTOR CERTIFICATE (PLUS ONE
	IT-6	SOILS	YEAR OF RELATED EXPERIENCE) NICET SOILS TECHNICIAN LEVEL II CERTIFICATE IN
	11 0		CONSTRUCTION MATERIALS TESTING, OR NICET GEOTECHNICAL ENGINEERING TECHNICIAN LEVEL II CONSTRUCTION OR
			GENERALIST CERTIFICATE, OR ICC SOILS SPECIAL INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE), OR
			ENGINEER-IN-TRAINING (EIT) WITH ONE YEAR OF RELATED EXPERIENCE, OR GEOLOGIST-IN-TRAINING (GIT) WITH ONE YEAR
	IT-7	DRIVEN DEEP FOUNDATIONS	OF RELATED EXPERIENCE NICET SOILS TECHNICIAN LEVEL II CERTIFICATE IN
			CONSTRUCTION MATERIALS TESTING, OR NICET GEOTECHNICAL ENGINEERING TECHNICIAN LEVEL II CONSTRUCTION OR
			GENERALIST CERTIFICATE, OR ENGINEER-IN-TRAINING (EIT) WITH ONE YEAR OF RELATED EXPERIENCE, OR GEOLOGIST-IN-
	IT-8	CAST-IN-PLACE DEEP FOUNDATIONS	TRAINING (GIT) WITH ONE YEAR OF RELATED EXPERIENCE SEE IT-7
	IT-9A IT-9B	HELICAL PILE FOUNDATIONS RAMMED AGGREGATE PIERS AND STONE COLUMNS	SEE IT-7 SEE IT-7
	IT-10 IT-11	FABRICATED ITEMS WIND RESISTANCE	AS NOTED HEREIN FOR EACH COMPONENT TYPE AS NOTED HEREIN FOR EACH COMPONENT TYPE
	IT-12 IT-13A	SEISMIC RESISTANCE SEISMIC RESISTANCE, STRUCTURAL STEEL AND HIGH-STRENGTH	AS NOTED HEREIN FOR EACH COMPONENT TYPE AS NOTED HEREIN FOR EACH COMPONENT TYPE
	IT-13B	BOLTING SEISMIC RESISTANCE, WELDING OF STRUCTURAL STEEL	AS NOTED HEREIN FOR EACH COMPONENT TYPE
	IT-13C	SEISMIC RESISTANCE, NON-DESTRUCTIVE TESTING OF WELDED JOINTS	AS NOTED HEREIN FOR EACH COMPONENT TYPE
	IT-13D	SEISMIC RESISTANCE, STEEL DRIVEN DEEP FOUNDATIONS (H-PILES)	AS NOTED HEREIN FOR EACH COMPONENT TYPE
	IT-14	SPRAYED FIRE-RESISTANT MATERIALS	ICC SPRAY-APPLIED FIREPROOFING SPECIAL INSPECTOR CERTIFICATE, OR ICC FIRE INSPECTOR I CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE)
	IT-15 IT-16	MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)	SEE IT-14 AWCI EIFS INSPECTOR CERTIFICATE
	IT-17	FIRE-RESISTANT PENETRATIONS AND JOINTS	ICC FIRE INSPECTOR I CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE)
	IT-18	SMOKE CONTROL	REGISTERED PROFESSIONAL ENGINEER (MECHANICAL OR FIRE PROTECTION) AND CERTIFICATION AS AIR BALANCER, OR AABC
			TECHNICIAN CERTIFICATION (PLUS ONE YEAR OF RELATED EXPERIENCE)

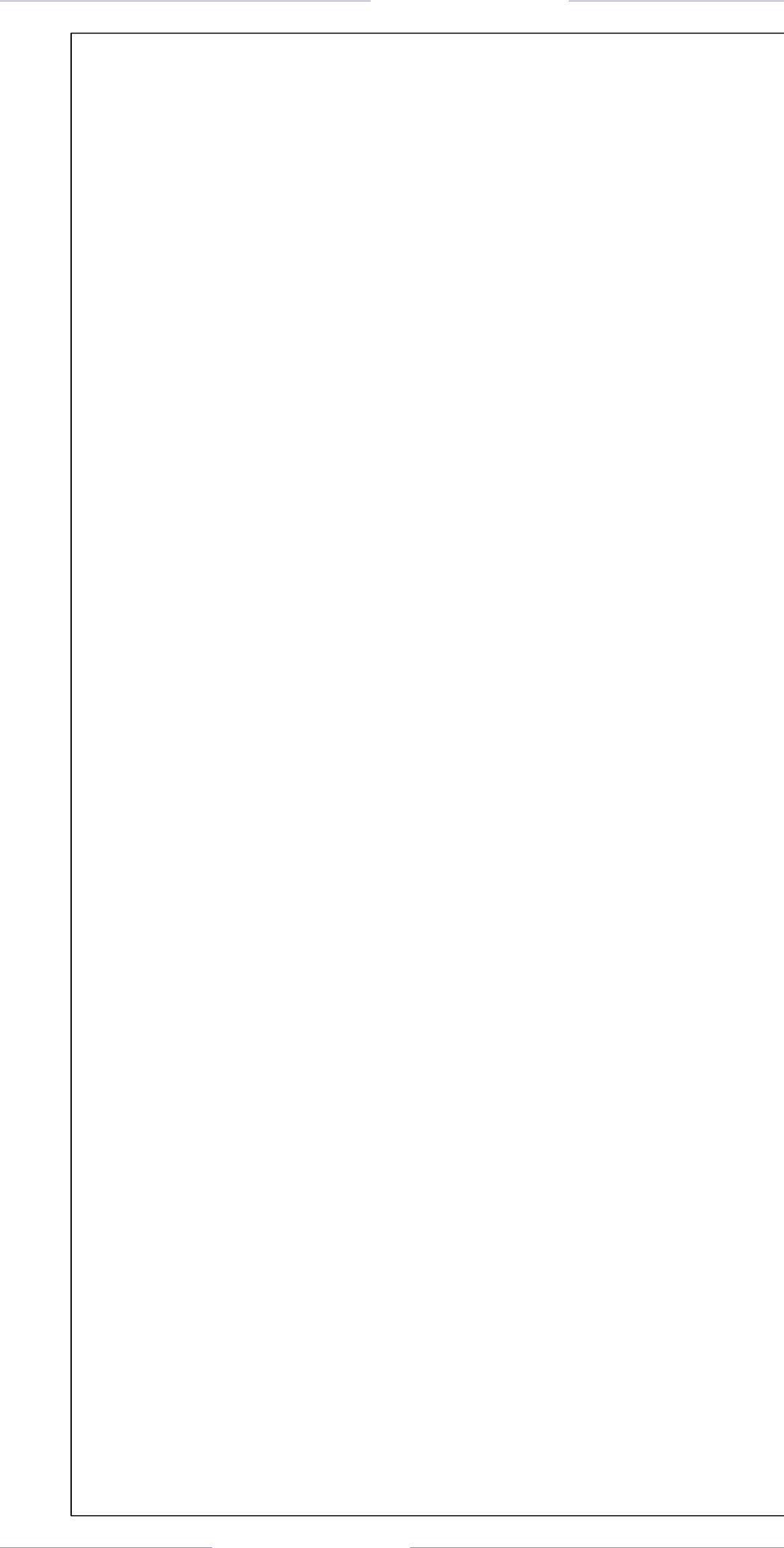
	INS	PECTION TASK	FREQ	REFERENCE
	1.		P	IBC 1705.1.1.1
	2.	UNUSUAL DESIGN APPLICATIONS OF MATERIALS DESCRIBED IN THE IBC.	Р	IBC 1705.1.1.2
X	3.	MATERIALS AND SYSTEMS REQUIRED TO BE INSTALLED IN ACCORDANCE WITH ADDITIONAL MANUFACTURER'S INSTRUCTIONS THAT PRESCRIBE REQUIREMENTS NOT CONTAINED IN THE IBC OR IN STANDARDS REFERENCED BY THE IBC.	Р	IBC 1705.1.1.3
	4.	PILES, PIERS, AND SPECIAL FOUNDATIONS	Р	IBC 1705.1.2.1
	5.	SPRAYED FIRE-RESISTANT MATERIALS	Р	IBC 1705.1.2.2
		MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS	Р	IBC 1705.1.2.3
	7.	SMOKE CONTROL AND SMOKE EXHAUST SYSTEMS	Р	IBC 1705.1.2.4
X	8.	RETAINING WALLS (>5' IN HEIGHT OF UNBALANCED BACKFILL)		IBC 1705.1.2.5
·		A. VERIFY FOUNDATION SUPPORT SYSTEM IS ADEQUATE FOR THE INTENDED SITE CONDITIONS.	Р	IBC 1807.2.5.1
		B. VERIFY THAT RETAINING WALL MATERIALS AND INSTALLATIONS ARE IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.	Р	IBC 1807.2.5.2
		C. VERIFY THAT ACTUAL SOIL CONDITIONS ARE SIMILAR TO THOSE ANTICIPATED BY THE APPROVED ENGINEERED DESIGN.	Р	IBC 1807.2.5.3
		D. EXAMINE BACKFILL MATERIALS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS.	Р	IBC 1807.2.5.4
		E. CONFIRM THAT ALL SUBSOIL DRAINAGE PIPING IS UNDAMAGED, DRAINS FREELY TO THE DESIGNATED OUTLET OR STRUCTURE, AND HAS BEEN INSTALLED PER THE APPROVED ENGINEERED DESIGN.	Р	IBC 1807.2.5.4
		FOR SOILS PERFORM ADDITIONAL TESTS AND INSPECTIONS PER IBC 1705.6 AND THE APPLICABLE SCHEDULES HEREIN. FOR CONCRETE WALLS AND FOOTINGS PERFORM		

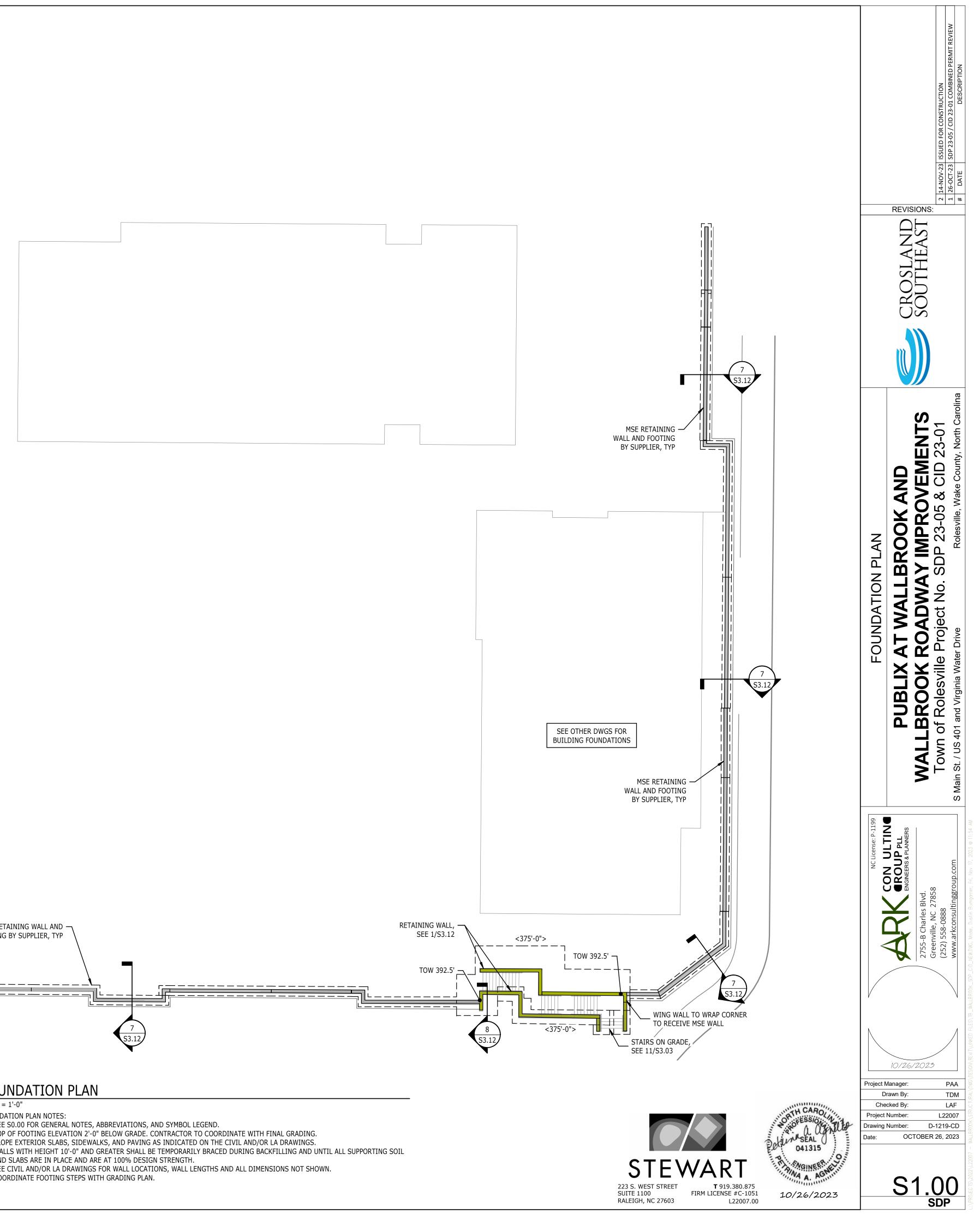


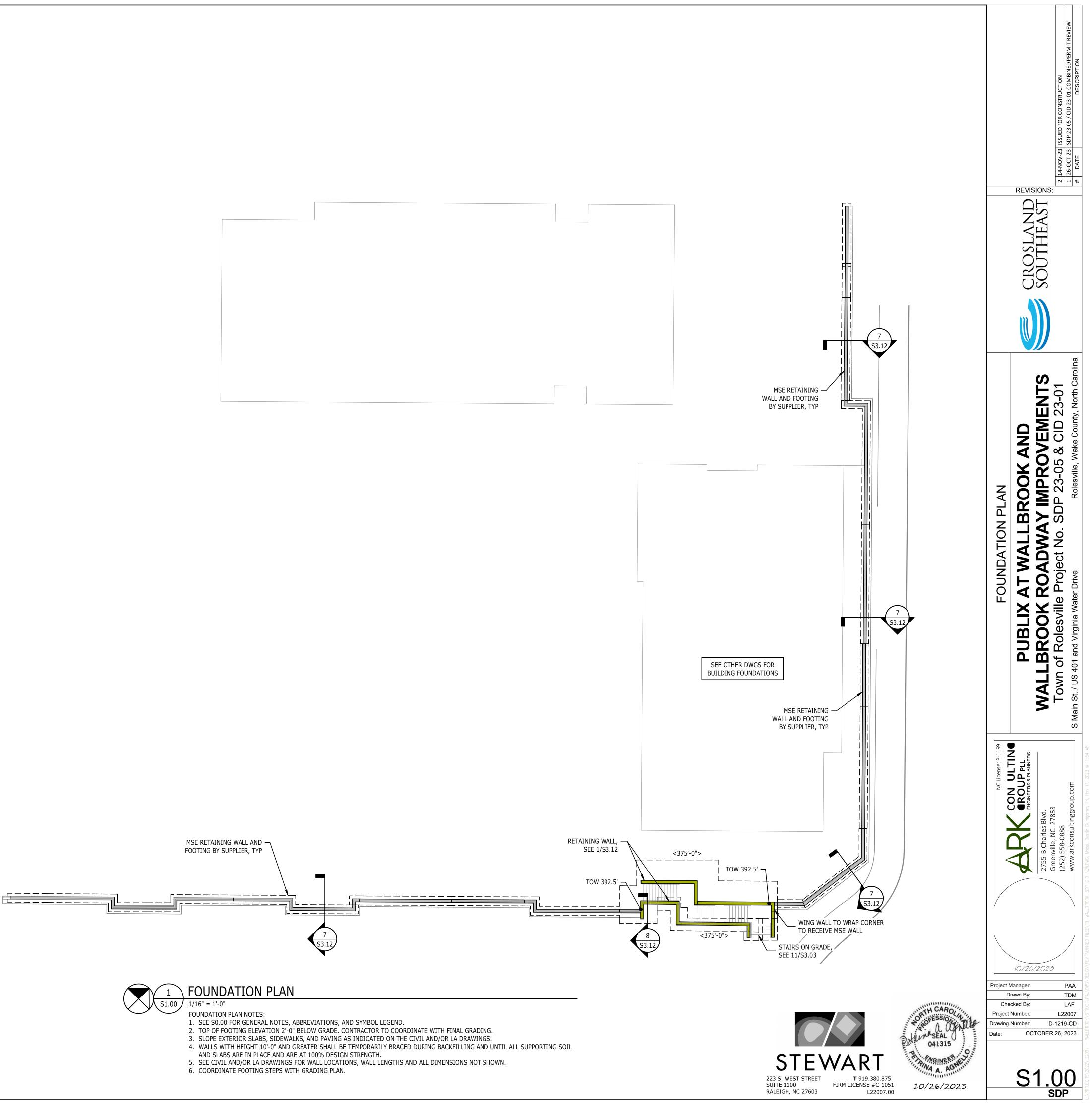


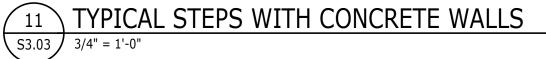
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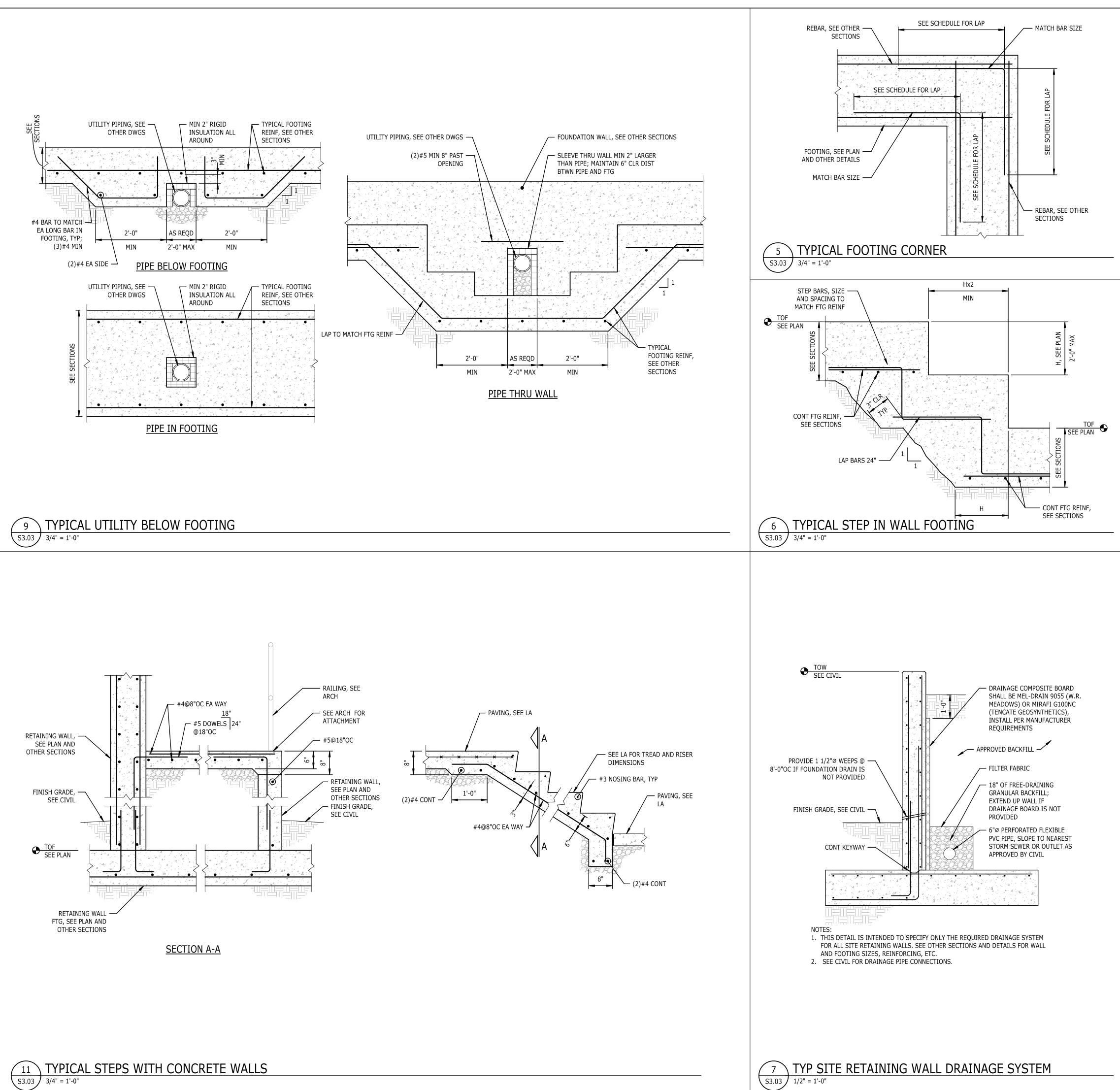
H CAR









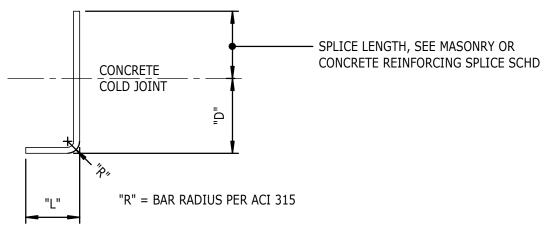


CONCRETE REINFORCING SPLICES					
BAR SIZE	f'c = 3,000 PSI	f'c = 4,000 PSI	f'c = 5,000 PSI		
#3	1'-10"	1'-7"	1'-5"		
#4	2'-4"	2'-1"	1'-10"		
#5	3'-0"	2'-7"	2'-4"		
#6	3'-7"	3'-1"	2'-9"		
#7	5'-2"	4'-6"	4'-1"		
#8	5'-11"	5'-2"	4'-8"		
#9	6'-6"	5'-10"	5'-3"		
#10	7'-6"	6'-6"	5'-10"		
#11	8'-4"	7'-3"	6'-6"		
SPLICE LENGTH					

- SPLICE LENGTH
- NOTES: 1. FOR CLASS B LAP SPLICE, SPLICE LENGTH = 1.3 x DEVELOPMENT LENGTH. 2. APPLIES TO BOTTOM BARS ONLY (LESS THAN 12" OF FRESH CONCRETE
- BELOW BAR) 3. APPLIES WHERE THE CLEAR COVER IS GREATER THAN THE BAR DIAMETER.
- 4. WHEN MORE THAN 12" OF FRESH CONCRETE BELOW SPLICE, THEN INCREASE SPLICE TO 1.3 x SPLICE LENGTH.

1 CONCRETE REINFORCING SPLICE SCHEDULE S3.03 3/4" = 1'-0"

CONCRETE REINFORCING DOWEL EMBEDMENT						
		EMBEDMENT, "D"				
BAR SIZE	LEG DIM, "L"	f'c = 3,000 PSI	f'c = 4,000 PSI	f'c = 5,000 PSI		
#3	6"	6"	6"	6"		
#4	8"	8"	7"	6"		
#5	10"	10"	9"	8"		
#6	12"	12"	10"	9"		
#7	14"	14"	12"	11"		
#8	16"	16"	14"	12"		
#9	19"	18"	15"	14"		
#10	22"	20"	17"	15"		
#11	24"	22"	19"	17"		

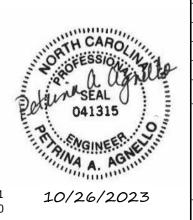


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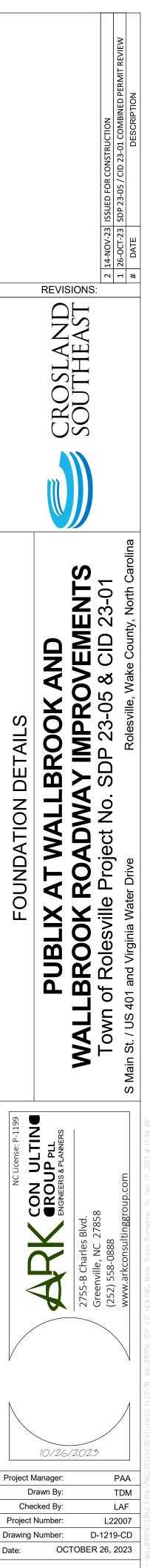
- 1. FOR CONCRETE STRENGTHS NOT PROVIDED, USE THE EMBEDMENT LENGTH FOR THE
- LOWER CONCRETE STRENGTH AS SHOWN IN THE TABLE. 2. DOWEL LENGTHS BASED ON NORMAL WEIGHT CONCRETE. FOR LIGHT WEIGHT,
- INCREASE DOWEL LENGTH "D" BY 30%.
- 3. SIDE COVER ON BARS MUST BE GREATER THAN 2 1/2". END COVER ON 90° HOOKED BARS MUST BE GREATER THAN 2".
- 4. FOR EPOXY-COATED BARS, INCREASE THE DOWEL LENGTH "D" BY 20%.

3 DOWEL EMBEDMENT LENGTH SCHEDULE S3.03 3/4" = 1'-0"

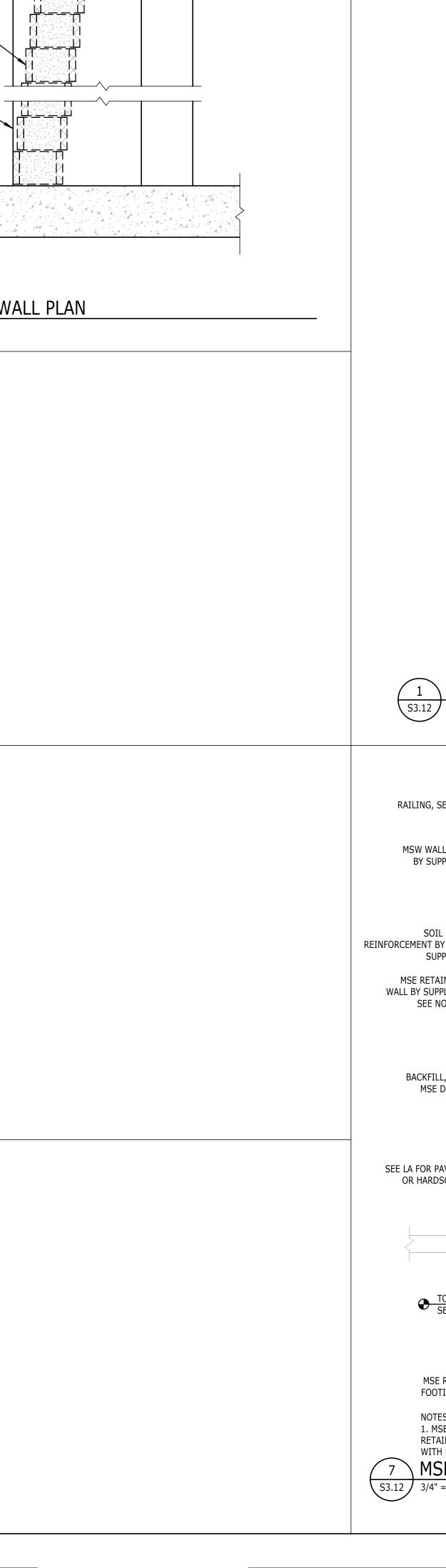


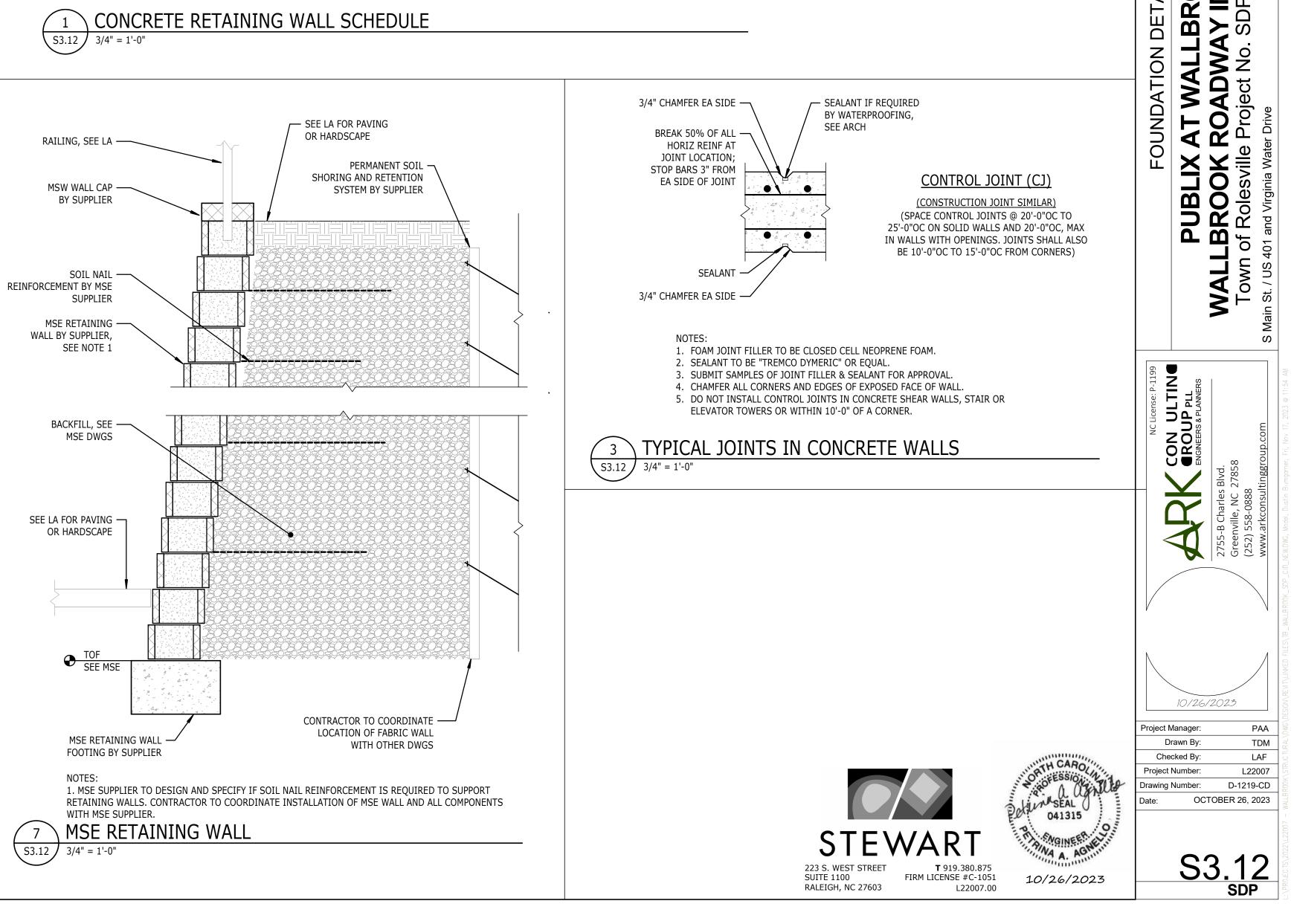


S3.03 SDP



		MSE RETAINING WALL BEYOND CONC RETAINING WALL, SEE PLAN AND OTHER SECTIONS CONC RETAINING WALL FTG, SEE PLAN AND OTHER SECTIONS MSE TO CONC WALL (3.12) 3/4" = 1'-0"



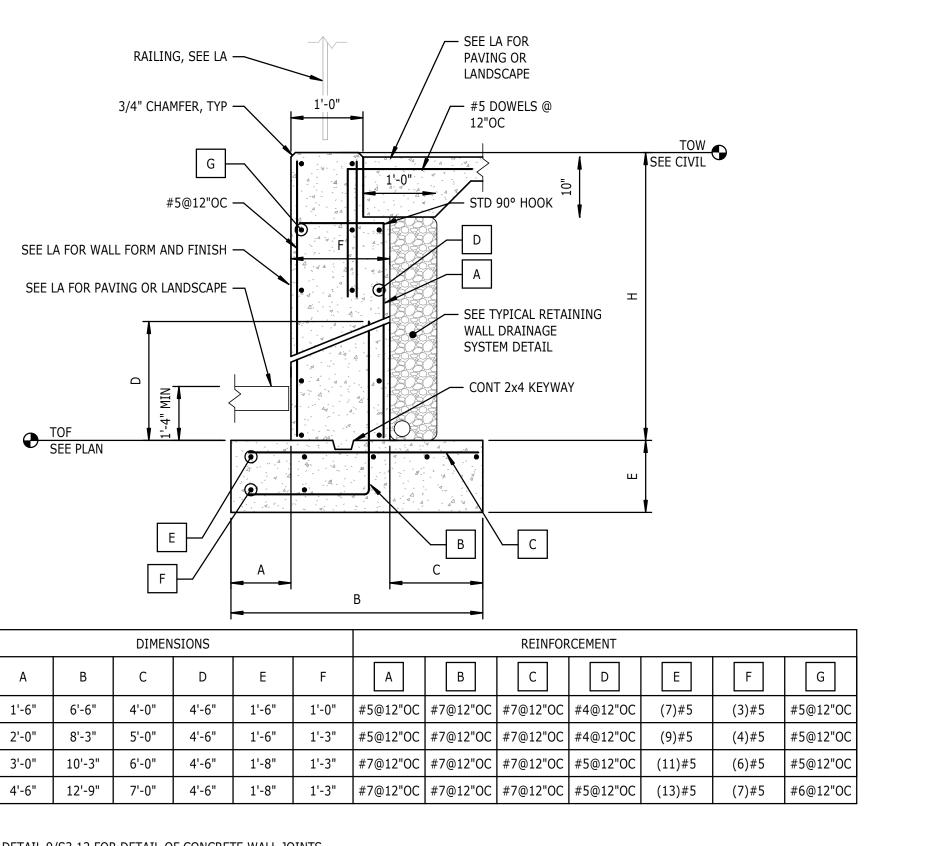


1 CONCRETE RETAINING WALL SCHEDULE S3.12 3/4" = 1'-0"

ARE IN PLACE AND ARE AT DESIGN STRENGTH.

NOTES: 1. SEE DETAIL 9/S3.12 FOR DETAIL OF CONCRETE WALL JOINTS. 2. SEE LANDSCAPE WALL ELEVATIONS FOR PATTERNS IN CONCRETE SITE WALLS. 3. WALLS WITH HEIGHT 10'-0" AND GREATER SHALL BE TEMPORARILY BRACED DURING BACKFILLING AND UNTIL ALL SUPPORTING SOIL AND SLABS

DIMENSIONS							
1							



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