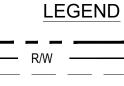
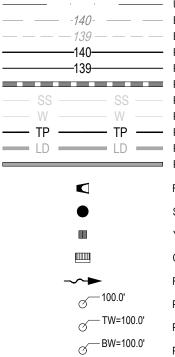


nold Capital)\330-12 (Legacy Phase 6)\Design\Plansets\Construction Plans\330-12 11 GRADING PLAN 2.dwg PLOTTED: 2/7/2019 10:30 AM BY: BMUELLER





PROPERTY LINE (PL)	
RIGHT-OF-WAY LINE	
SETBACK LINE	
UTILITY EASEMENT	
EXISTING MAJOR CONTOUR	
EXISTING MINOR CONTOUR	
PROPOSED MAJOR CONTOUR	
PROPOSED MINOR CONTOUR	
PROPOSED STORM DRAINAGE PIPE	
PROPOSED GRAVITY SEWER	
PROPOSED WATER LINE	
PROPOSED TREE PROTECTION FENCI	E
PROPOSED LIMITS OF DISTURBANCE	
PROPOSED RETAINING WALL	
FLARED END SECTION	
STORM MANHOLE	
YARD INLET	
CATCH BASIN	
FLOW ARROW	
PROPOSED SPOT ELEVATION	

PROPOSED GRADE AT TOP OF WALL
PROPOSED GRADE AT BOTTOM OF WALL

FES C INV = 322.00 (JB C1)

<u>JB C1</u> RIM ELEV. = 334.46 INV IN = 328.50 (CB C8) INV IN = 328.96 (CB C5) INV IN = 327.30 (CB C2) INV OUT = 325.00 (FES C)

31 LF 24" RCP @ 9.58% Slope <u>CB C2</u> OPENING ELEV. = 343.55 INV IN = 330.20 (CB C4) INV IN = 340.05 (CB C3)

 CB C3
 CB C3
 OPENING ELEV. = 343.55
 INV OUT = 340.30 (CB C2)

<u>CB C4</u> OPENING ELEV. = 334.54 INV OUT = 331.29 (CB C2) 108 LF 15" RCP @ 1.01% Slope

24 LF 15" RCP @ 1.02% Slope

CB C5 OPENING ELEV. = 353.62 INV IN = 350.02 (CB C6) INV OUT = 345.12 (JB C1) 163 LF 18" RCP @ 9.93% Slope

CB C6 (DOUBLE) OPENING ELEV. = 353.62 INV IN = 350.37 (YI C7) INV OUT = 350.27 (CB C5) 24 LF 15" RCP @ 1.02% Slope

YI C7 OPENING ELEV. = 354.74 INV OUT = 350.99 (CB C6) 18 LF 15" RCP @ 3.49% Slope

CB C8 OPENING ELEV. = 344.49 INV IN = 333.86 (CB C10) INV IN = 340.99 (CB C9) INV OUT = 333.76 (JB C1) 228 LF 18" RCP @ 2.31% Slope

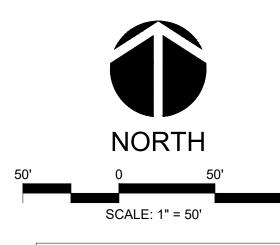
CB C9 OPENING ELEV. = 344.48 INV OUT = 341.23 (CB C8) 24 LF 15" RCP @ 0.98% Slope CB C10 OPENING ELEV. = 337.95

OPENING ELEV. = 337.95 INV OUT = 334.89 (CB C8) 103 LF 15" RCP @ 1.00% Slope

 EXISTING TREELINE (TYP)

## **GENERAL GRADING NOTES**

- 1. REFER TO THE OVERALL SITE LAYOUT FOR RELATED NOTES.
- 2. BOUNDARY & TOPOGRAPHIC INFORMATION TAKEN FROM A SURVEY PREPARED BY THE CE GROUP, INC.
- 3. FINISHED WALK AND CURB ELEVATIONS SHALL BE 6" ABOVE FINISHED PAVEMENT GRADE UNLESS NOTED DIFFERENTLY ON THE PLANS.
- 4. THE CONTRACTOR SHALL NOTE THAT THE PLANS ARE SCHEMATIC IN NATURE AND DO NOT SHOW EVERY OFFSET, TRANSITION, GRADE CHANGE, ETC. THAT MAY BE RECUIRED FOR A COMPLETE AND WORKING SYSTEM.
- 5. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.
   ALL FILL TO BE COMPACTED TO 98% DRY DENSITY (STANDARD PROCTOR) UNDER PAVEMENT AND BUILDING PADS OR AS SPECIFIED IN PROJECT
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- 8. THE PROPOSED CONTOURS SHOWN ARE FINISHED ELEVATIONS. REFER TO PAVEMENT AND SIDEWALK DETAILS TO ESTABLISH CORRECT SUBBASE OR AGGREGATE: BASE COURSE ELEVATIONS TO BE COMPLETED UNDER THIS CONTRACT.
- CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE SO THAT RUNOFF WILL FLOW BY GRAVITY AWAY FROM BUILDINGS AND ACROSS NEW PAVEMENT AND/OR LANDSCAPE AREAS TO NEW OR EXISTING STORM DRAIN INLETS, SWALES, DITCHES OR OVERLAND SHEET FLOW.
   GRADE BUILDING PAD(S) TO A LEVEL BELOW FINISHED FLOOR ELEVATION EQUAL TO THE FLOOR SLAB THICKNESS TO AN ACCURACY OF 1/10TH OF A FOOT.
- 11. TO MINIMIZE DAMAGE TO EXISTING TREES NEAR THE EXTERIOR EDGE OF BUFFERS AND STREETSCAPE, THE CONTRACTOR SHALL CUT MINIMUM 2" TRENCHES
- ALONG THE LIMITS OF DISTURBANCE SO AS TO CUT, RATHER THAN TEAR, ROOTS.
- 12. ALL STORM DRAINAGE PIPING SHALL BE CLASS III REINFORCED CONCRETE PIPE (RCP) UNLESS OTHERWISE NOTED.
- 13. SEE SHEET 31 FOR DRAINAGE STRUCTURE DETAILS.

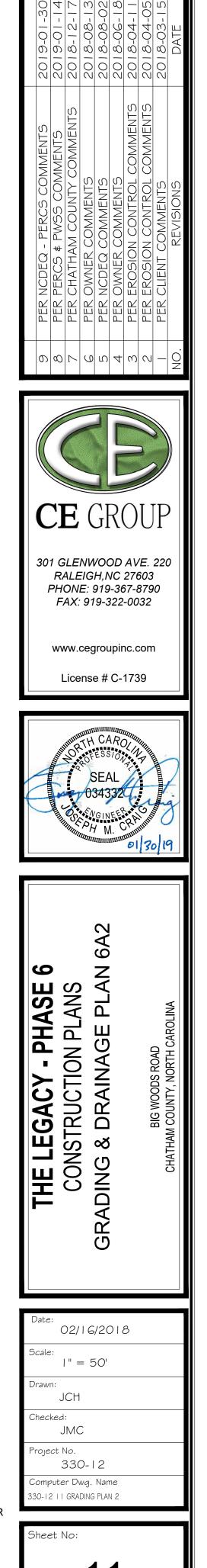




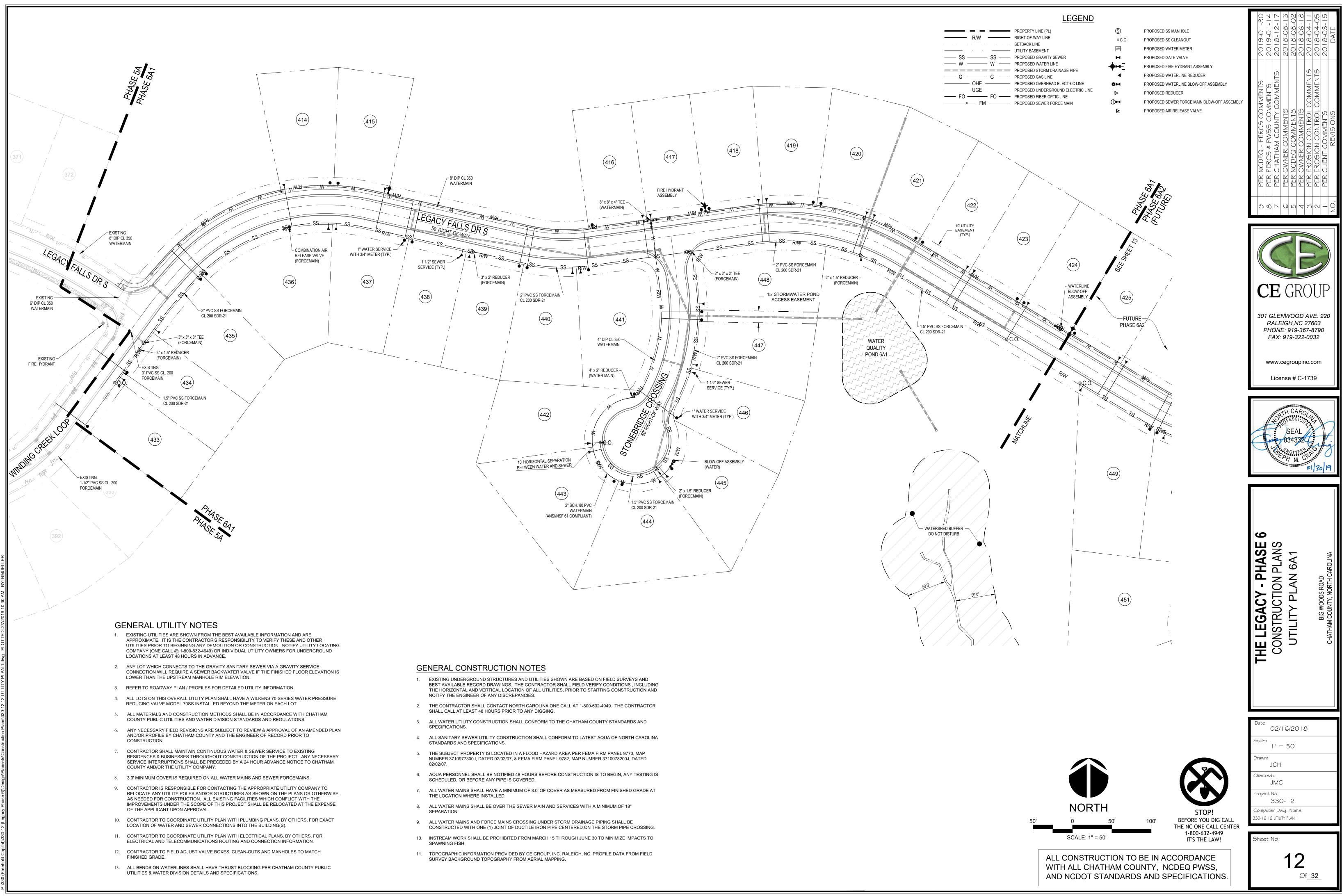
STOP! BEFORE YOU DIG CALL THE NC ONE CALL CENTER 1-800-632-4949 IT'S THE LAW!

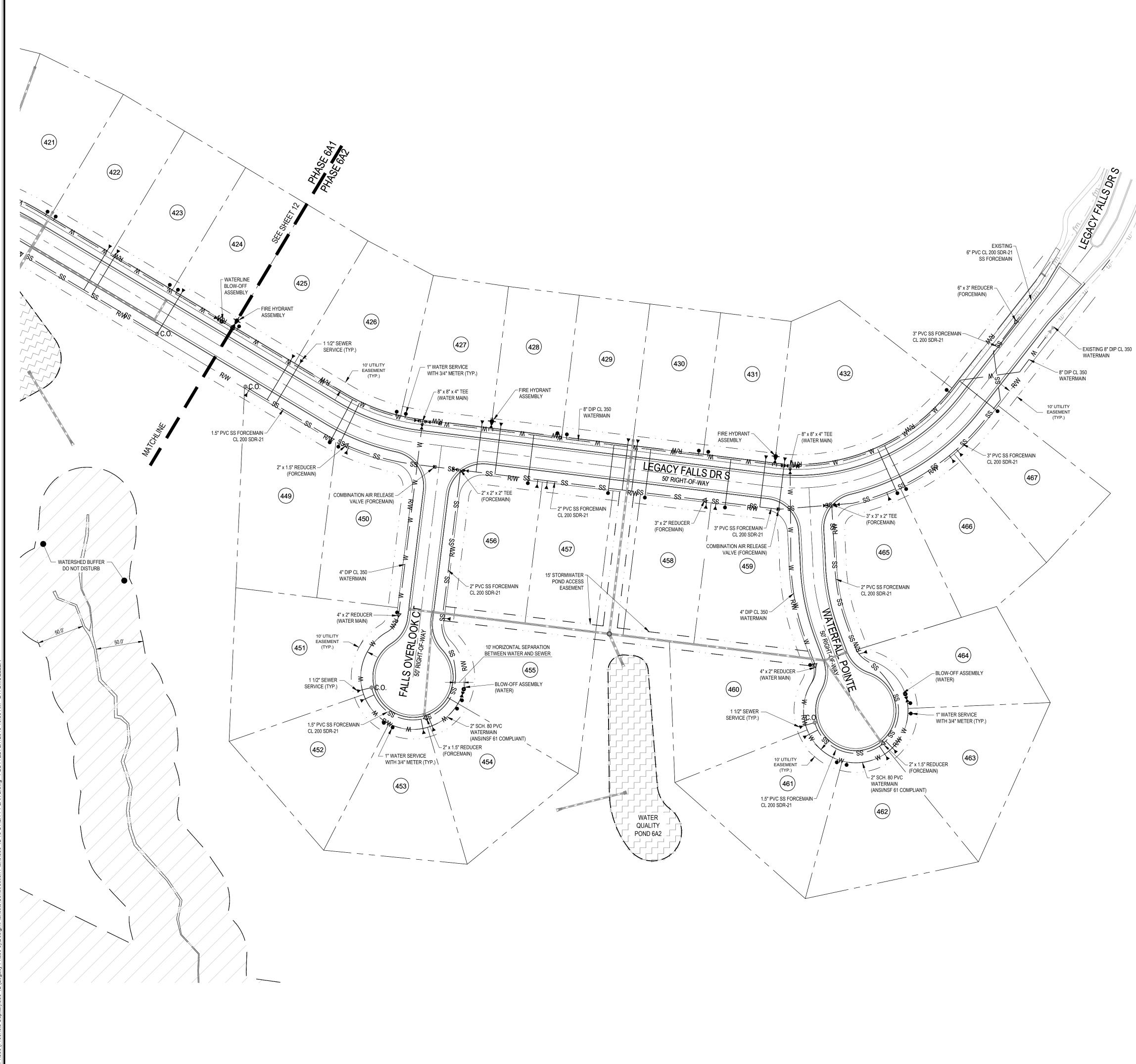
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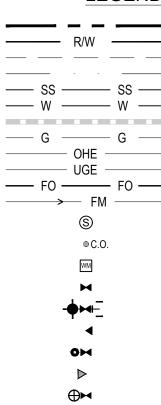
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### LEGEND



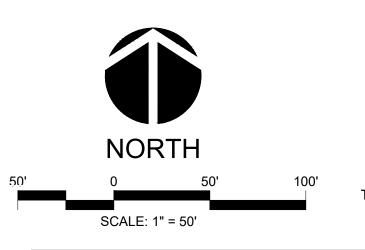
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	PROPERTY LINE (PL) RIGHT-OF-WAY LINE SETBACK LINE UTILITY EASEMENT PROPOSED GRAVITY SEWER
	PROPOSED WATER LINE PROPOSED STORM DRAINAGE PIPE PROPOSED GAS LINE PROPOSED OVERHEAD ELECTRIC LINE PROPOSED UNDERGROUND ELECTRIC LINE PROPOSED FIBER OPTIC LINE PROPOSED SEWER FORCE MAIN
	PROPOSED SS MANHOLE PROPOSED SS CLEANOUT PROPOSED WATER METER PROPOSED GATE VALVE PROPOSED FIRE HYDRANT ASSEMBLY PROPOSED WATERLINE REDUCER PROPOSED WATERLINE BLOW-OFF ASSEMBLY PROPOSED REDUCER
	PROPOSED SEWER FORCE MAIN BLOW-OFF ASSEMBLY PROPOSED AIR RELEASE VALVE

### GENERAL CONSTRUCTION NOTES

- 1. EXISTING UNDERGROUND STRUCTURES AND UTILITIES SHOWN ARE BASED ON FIELD SURVEYS AND BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY CONDITIONS, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES, PRIOR TO STARTING CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- 2. THE CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE CALL AT 1-800-632-4949. THE CONTRACTOR SHALL CALL AT LEAST 48 HOURS PRIOR TO ANY DIGGING.
- 3. ALL WATER UTILITY CONSTRUCTION SHALL CONFORM TO THE CHATHAM COUNTY STANDARDS AND SPECIFICATIONS.
- 4. ALL SANITARY SEWER UTILITY CONSTRUCTION SHALL CONFORM TO LATEST AQUA OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
- THE SUBJECT PROPERTY IS LOCATED IN A FLOOD HAZARD AREA PER FEMA FIRM PANEL 9773, MAP NUMBER 3710977300J, DATED 02/02/07, & FEMA FIRM PANEL 9782, MAP NUMBER 3710978200J, DATED 02/02/07.
- 6. AQUA PERSONNEL SHALL BE NOTIFIED 48 HOURS BEFORE CONSTRUCTION IS TO BEGIN, ANY TESTING IS SCHEDULED, OR BEFORE ANY PIPE IS COVERED.
- 7. ALL WATER MAINS SHALL HAVE A MINIMUM OF 3.0' OF COVER AS MEASURED FROM FINISHED GRADE AT THE LOCATION WHERE INSTALLED.
- 8. ALL WATER MAINS SHALL BE OVER THE SEWER MAIN AND SERVICES WITH A MINIMUM OF 18" SEPARATION.
- 9. ALL WATER MAINS AND FORCE MAINS CROSSING UNDER STORM DRAINAGE PIPING SHALL BE CONSTRUCTED WITH ONE (1) JOINT OF DUCTILE IRON PIPE CENTERED ON THE STORM PIPE CROSSING.
- 10. INSTREAM WORK SHALL BE PROHIBITED FROM MARCH 15 THROUGH JUNE 30 TO MINIMIZE IMPACTS TO SPAWNING FISH.
- 11. TOPOGRAPHIC INFORMATION PROVIDED BY CE GROUP, INC. RALEIGH, NC. PROFILE DATA FROM FIELD SURVEY BACKGROUND TOPOGRAPHY FROM AERIAL MAPPING.

## GENERAL UTILITY NOTES

- 1. EXISTING UTILITIES ARE: SHOWN FROM THE BEST AVAILABLE INFORMATION AND ARE APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THESE AND OTHER UTILITIES PRIOR TO BEGINNING ANY DEMOLITION OR CONSTRUCTION. NOTIFY UTILITY LOCATING COMPANY (ONE CALL @) 1-800-632-4949) OR INDIVIDUAL UTILITY OWNERS FOR UNDERGROUND LOCATIONS AT LEAST 48 HOURS IN ADVANCE.
- 2. ANY LOT WHICH CONNECTS TO THE GRAVITY SANITARY SEWER VIA A GRAVITY SERVICE CONNECTION WILL REQUIRE A SEWER BACKWATER VALVE IF THE FINISHED FLOOR ELEVATION IS LOWER THAN THE UPSTREAM MANHOLE RIM ELEVATION.
- 3. REFER TO ROADWAY PLAN / PROFILES FOR DETAILED UTILITY INFORMATION.
- 4. ALL LOTS ON THIS OVERALL UTLITY PLAN SHALL HAVE A WILKENS 70 SERIES WATER PRESSURE REDUCING VALVE MODEL 70SS INSTALLED BEYOND THE METER ON EACH LOT.
- 5. ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CHATHAM
- COUNTY PUBLIC UTILITIES AND WATER DIVISION STANDARDS AND REGULATIONS.ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN
- AND/OR PROFILE BY CHATHAM COUNTY AND THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION.
- 7. CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF THE PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24 HOUR ADVANCE NOTICE TO CHATHAM COUNTY AND/OR THE UTILITY COMPANY.
- 8. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS AND SEWER FORCEMAINS.
- 9. CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO RELOCATE ANY UTILITY POLES AND/OR STRUCTURES AS SHOWN ON THE PLANS OR OTHERWISE, AS NEEDED FOR CONSTRUCTION. ALL EXISTING FACILITIES WHICH CONFLICT WITH THE IMPROVEMENTS UNDER THE SCOPE OF THIS PROJECT SHALL BE RELOCATED AT THE EXPENSE OF THE APPLICANT UPON APPROVAL.
- 10. CONTRACTOR TO COORDINATE UTILITY PLAN WITH PLUMBING PLANS, BY OTHERS, FOR EXACT LOCATION OF WATER AND SEWER CONNECTIONS INTO THE BUILDING(S).
- 11. CONTRACTOR TO COORDINATE UTILITY PLAN WITH ELECTRICAL PLANS, BY OTHERS, FOR ELECTRICAL AND TELECOMMUNICATIONS ROUTING AND CONNECTION INFORMATION.
- 12. CONTRACTOR TO FIELD ADJUST VALVE BOXES, CLEAN-OUTS AND MANHOLES TO MATCH FINISHED GRADE.
- 13. ALL BENDS ON WATERLINES SHALL HAVE THRUST BLOCKING PER CHATHAM COUNTY PUBLIC UTILITIES & WATER DIVISION DETAILS AND SPECIFICATIONS.



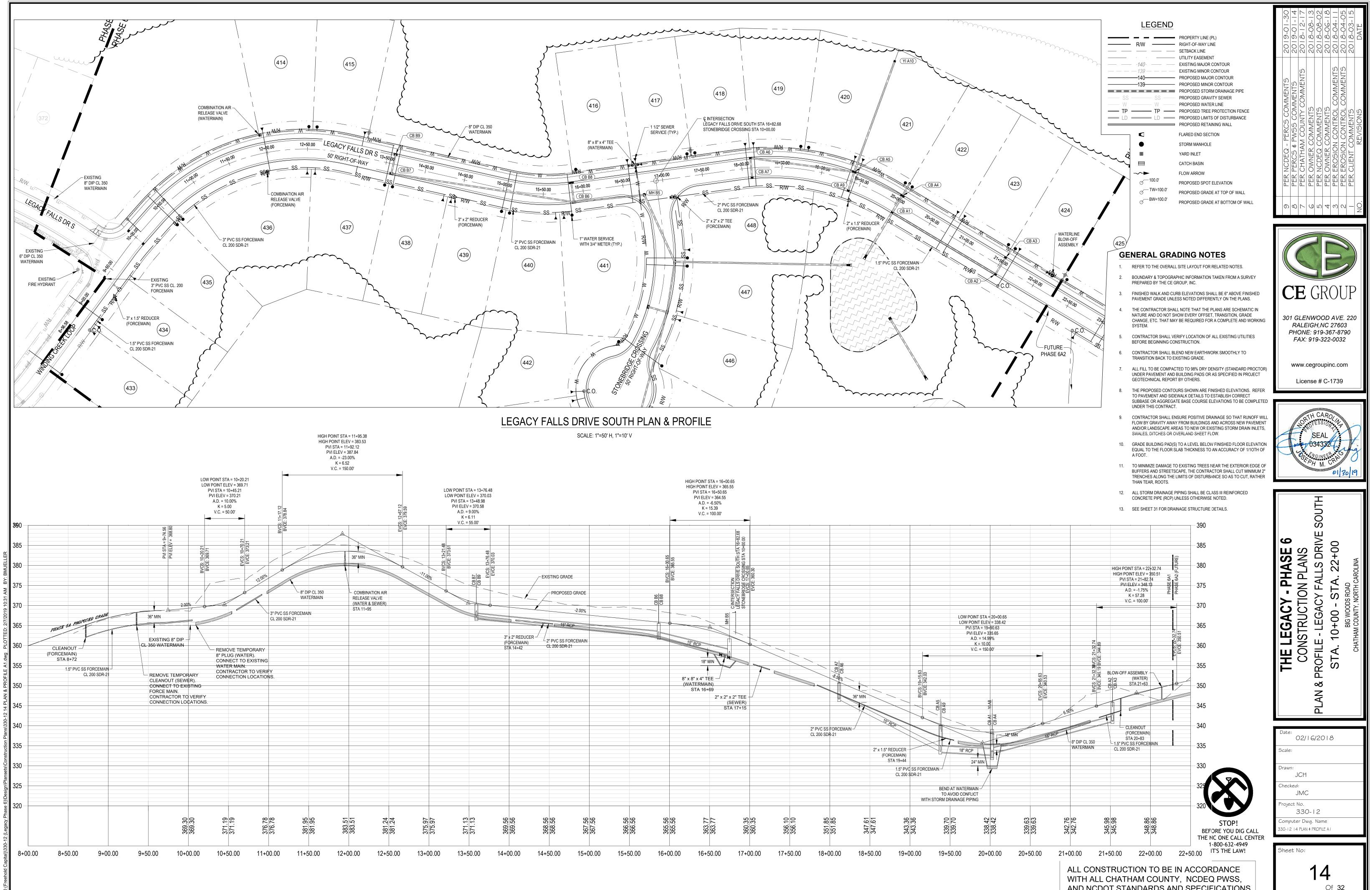


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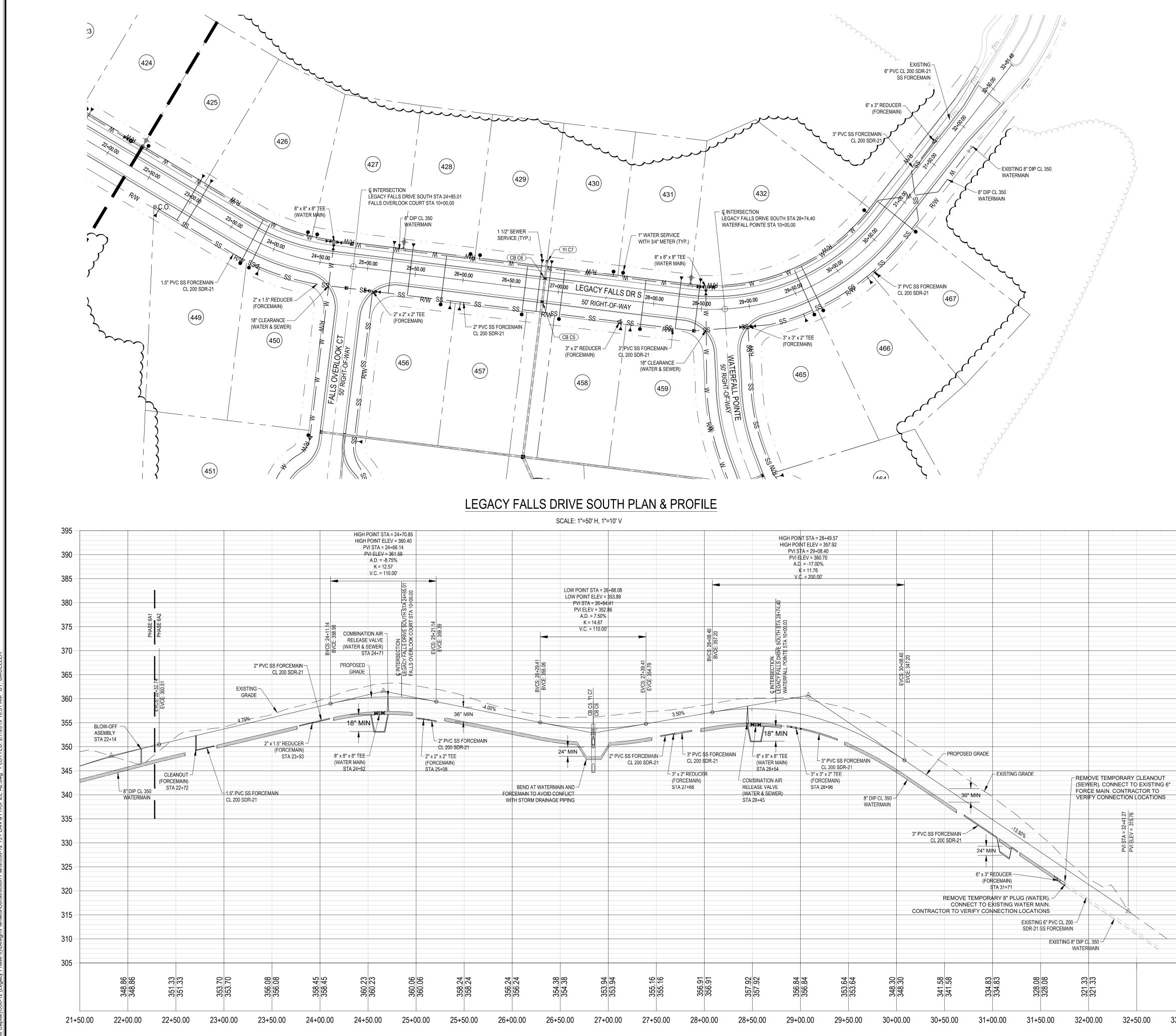
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<u>LEGEND</u>	PROPERTY LINE (PL) RIGHT-OF-WAY LINE SETBACK LINE UTILITY EASEMENT	2019-01-30	0-0-	18-12-1	018-08-1	0-80-8-0		018-04-1		DATE
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FAX: 919-322-0032

www.cegroupinc.com

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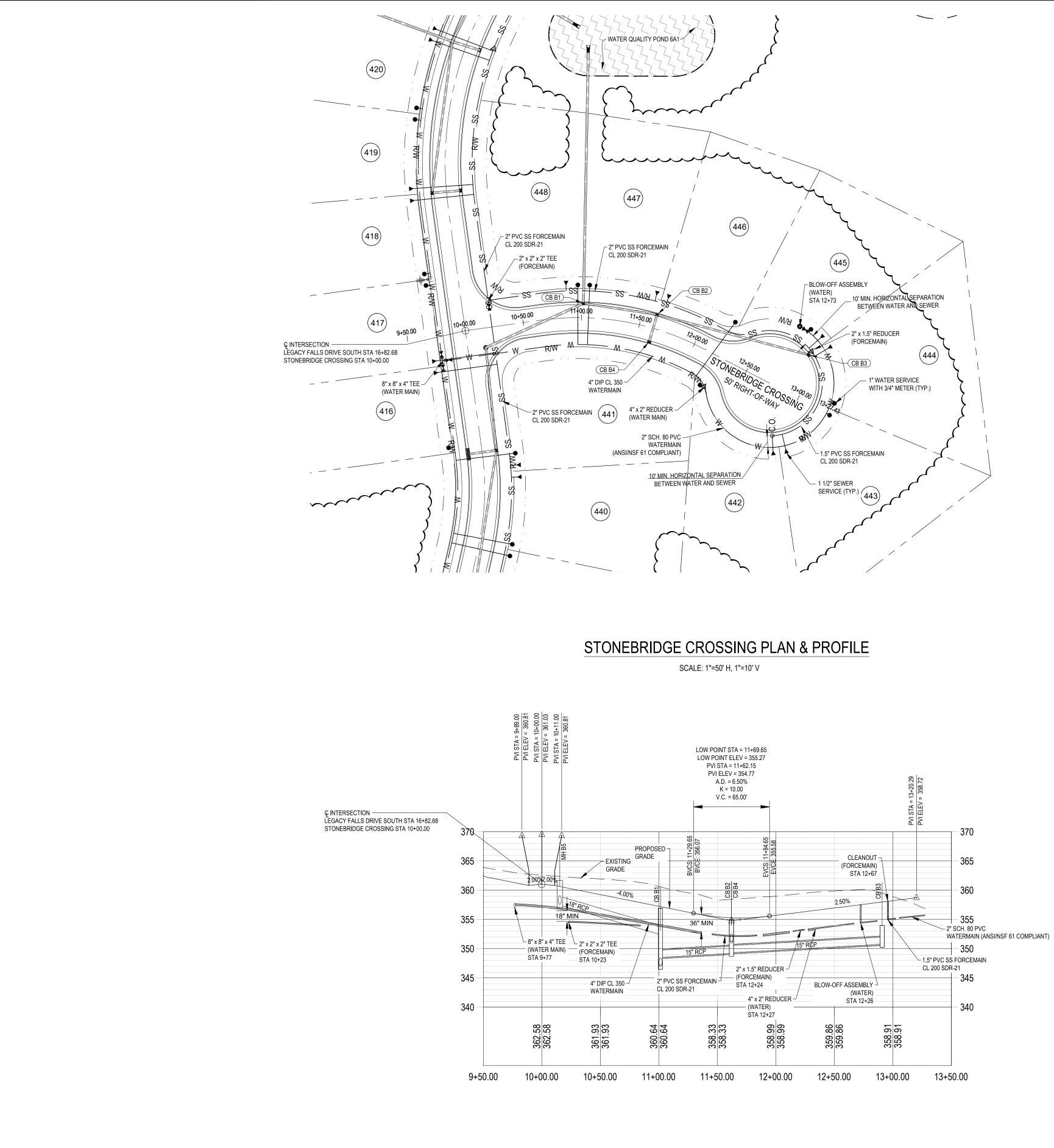
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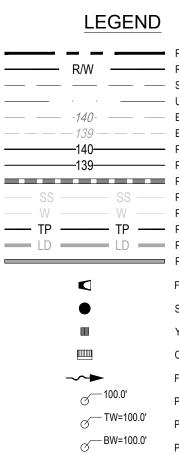
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CE GROUP CE GROUP 301 GLENWOOD AVE. 220 RALEIGH,NC 27603 PHONE: 919-367-8790 FAX: 919-322-0032 WWW.cegroupinc.com License # C-1739
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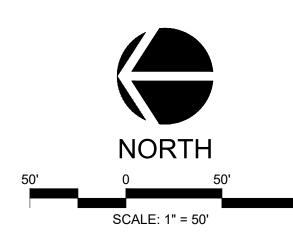
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