Orange Water and Sewer Authority
Our community's trusted partner for clean water and environmental protection.

Date: March 31, 2025

Invitation to bid: South Circle Drive pavement restoration.

You are invited to submit a bid for the South Circle Drive pavement restoration project. The plans and specifications included with this invitation outline the work to be completed.

Our Construction Crew will be installing a new water main along South Circle Drive. We anticipate the work to be complete in June 2025.

The hatched area shown of the plans is the general area of the overlay the trench repair will generally be the route of the pipe and services.

Paving Project duration: **Substantial completion 30 days from NTP and Final completion at 45 days**

Performance and Payment bonds required.

We look forward to receiving a submittal from your company.

Bids are to be submitted by:

April 29, 2025 by end of the day (11:59 PM) bids may be submitted by email to Dberger@owasa.org (the time stamp on the email will serve as the confirmed delivery date and time.) or delivered to 400 Jones Ferry Road Carrboro, NC 27510. **Please note delivery to our physical address will need to be completed before 5:00 PM on April 29, 2025.** Bids received after these times will not be accepted.

Darren Berger Project Manager

Orange Water and Sewer Authority
Email: DBerger@owasa.org
Phone: 919-537-4240

GENERAL INFORMATION:

The state of the project site will be a saw-cut 4-foot wide trench filled with compacted ABC, which OWASA shall complete for the installation of the water main prior to pavement work. Per Detail on the Engineering Drawings, six inches of the compacted ABC will need to be removed along the trench and the remaining ABC re-compacted prior to asphalt placement. The full roadway width will be overlain with 1.5-inch asphalt. Milling of pavement is required at each end of the project corridor to establish a clean seam at the end points for transition to existing roadways. All work is in NCDOT roadways, as noted on the plans shall be per the engineering drawing details and paid under the appropriate line item.

Acknowledgment of Addenda /_____

BASE BID:

Item No.	Description	Unit	Estimated Quantity	Unit Price	Bid Amount
1	6" Base Course, Per NCDOT Detail Sheet D-1	SY	1670		
2	1.5" Overlay	SY	4700		
3	NCDOT Milling and Filling of Asphalt Pavement (Select Areas)	SY	100		
4	Striping	LF	100		
5	Mobilization/Demobilization	EA	1		

TOTAL BASE BID PRICE for the construction of the Project complete as indicated by the Drawings and Items No. 1 — 5 above. (in words and figures):

_____

_____Dollars

and_____Cents ($_____)

Bidder _____
(Print)

MEASUREMENT AND PAYMENT:

Payment for work required by the Drawings shall be based on the pay items described herein The work associated with each pay item is intended to include all of the work and materials required for a complete paving installation. The descriptions herein may not be complete; however, the intent of the project is to provide a complete pavement installation.

Item 1 — NCDOT Trench Repair

This unit price bid item shall include furnishing all traffic control, materials, equipment, and labor for removal, disposal, and replacement, if necessary, to provide 6-inch ABC at location of WM installation and provide replacement of removed 6-inches of ABC with 6-inches of base course per procedure identified on Sheet D-1 of the Engineering Drawings. Payment for NCDOT Trench Repair shall be made by the square yard of pavement installed per NCDOT trench repair details provided in the Drawings.

Item 2 — 1.5” Overlay of Asphalt Pavement

This unit price bid item includes furnishing all traffic control, materials, equipment, and labor for placement of 1.5” of SF9.5B pavement, where shown on the Engineering Drawings. Payment for asphalt pavement milling shall be made on a separate line item. Payment for the 1.5” pavement overlay shall be made per square yard of asphalt placement per the NCDOT repair detail on Engineering Drawing Sheet D-1.

This line item may also be utilized for payment of additional pavement repair outside the trench area if and where directed by OWASA.

Item 3 — NCDOT Milling and Overlay of Asphalt Pavement

This unit price bid item pertains only to areas which require pavement milling at seams with existing asphalt at Woodward Way and South Circle Drive and includes furnishing all traffic control, materials, equipment, and labor for milling of 1.5" of asphalt, and placement of SF9.5B asphalt per Mill Butt Joint Tie-In Detail on Engineering Drawing Sheet D-1, where shown on the Drawings. Payment for asphalt pavement milling and replacement shall be made per square yard of milling and asphalt placement per the NCDOT repair detail on Engineering Drawing Sheet D-1.

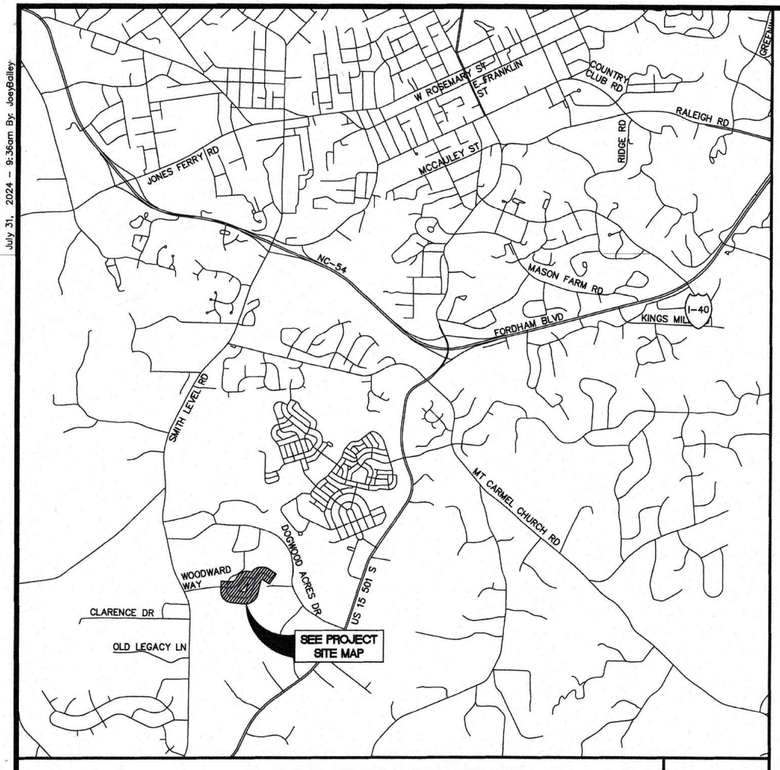
Item 4 — Striping

This pay item includes replacement in kind of existing double yellow solid line and or White edge solid line pavement marking per NCDOT Specification 12.02 along the entirety of the roadway. Payment for roadway striping shall be made per linear foot of roadway striping placement.

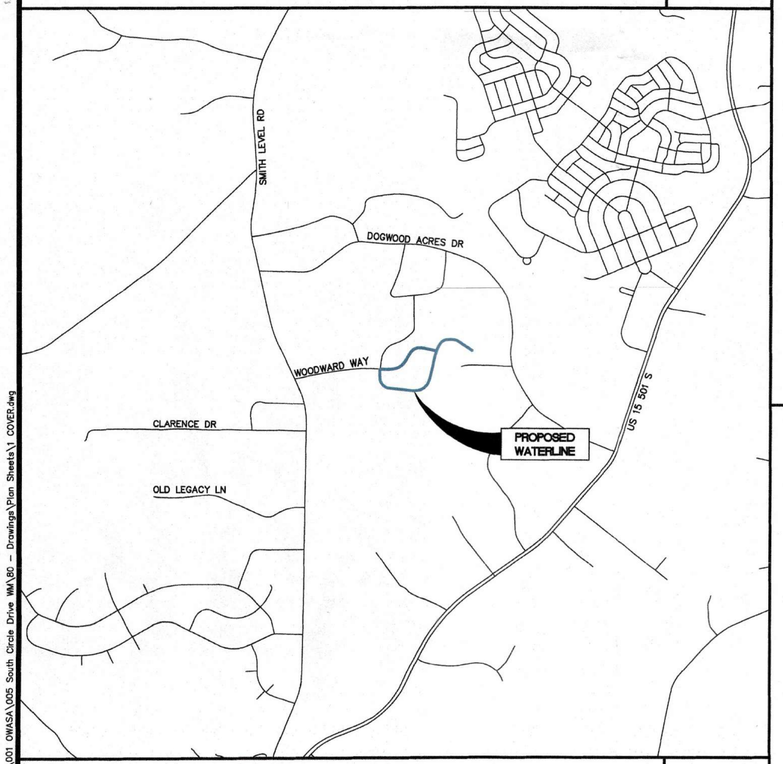
Item 5 — Mobilization/Demobilization

This unit price item is for the costs incurred for the Contractor to mobilize equipment to the site and to demobilize from the site once a particular phase (if multiple phases are required by the Owner) of work is complete. Coordinate work status and planned activities with the Owner prior to any mobilization or demobilization.

-END OF SECTION-



PROJECT LOCATION | NOT TO SCALE



PROJECT SITE | NOT TO SCALE

ORANGE WATER AND SEWER AUTHORITY
CARRBORO, NORTH CAROLINA

PUBLIC WATER SYSTEM PLANS AND SPECIFICATIONS
APPROVED BY
N.C. DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF WATER RESOURCES
PUBLIC WATER SUPPLY SECTION
Serial No. 24-00123
Date August 8, 2024
By Richard Simpson

SOUTH CIRCLE DRIVE WATER MAIN REPLACEMENT

NOVEMBER 2023

Drawer
Project: SOUTH CIRCLE DRIVE WTR MAIN REPLACEMENT - NC0368010
ORANGE WATER & SEWER AUTHORITY
Location: ORANGE County
Project Type: DISTRIBUTION EXTENSION
Date: 02/05/2024
Serial #: 24-00123
REVIEWER: Richard Simpson

NORTH CAROLINA PROFESSIONAL SEAL 029985 ENGINEER STEPHEN D. LETCH
8/11/24

INDEX TO SHEETS

SHEET NO.	DWG NO.	SHEET TITLE
1	XX	COVER
2	C1	WATER MAIN PLAN
3	C2	WATER MAIN PLAN
4	D1	DETAILS

ORANGE WATER AND SEWER AUTHORITY
400 JONES FERRY ROAD
CARRBORO, NC 27510

PHONE: (919) 537-4229
FAX: (919) 968-4464

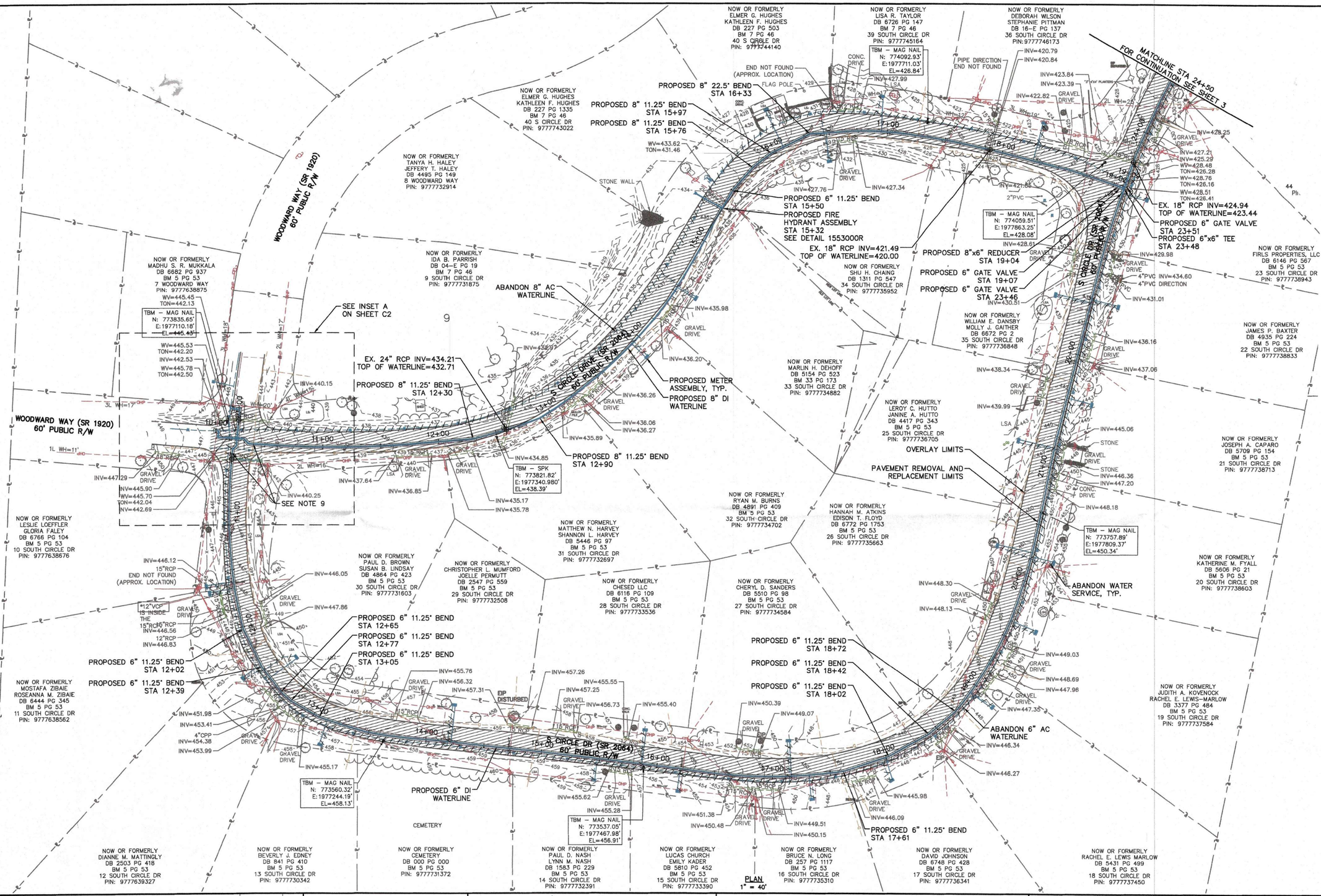
OWASA'S CIP#: 275-20

PREPARED IN THE OFFICE OF:
CJS Conveyance, PLLC
320 S. ACADEMY STREET
CARY, NC 27511
NC LICENSE #P-1611 WWW.CJSCONVEYANCE.COM

CJS PROJECT NO. 001-005

JOB NO. 001-005
PROJECT: SOUTH CIRCLE DRIVE WATER MAIN REPLACEMENT
CLIENT: ORANGE WATER AND SEWER AUTHORITY

July 31, 2024 - 9:36am By: JoeyBolley
J:\001 OWASA\005 South Circle Drive WMA\80 - Drawings\Plan Sheets\1 COVER.dwg



GENERAL NOTES:

1. ALL UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH OWASA STANDARD DETAILS AND SPECIFICATIONS. ALL NEW WATER MAIN SHALL HAVE 3.5' MINIMUM COVER.
2. ALL STREET REPAIRS SHALL BE IN ACCORDANCE WITH NCDOT STANDARD DETAILS AND SPECIFICATIONS, LATEST EDITION.
3. RELATION BETWEEN WATER AND SEWER MAINS SHALL BE IN ACCORDANCE WITH NCAC 15A SUBCHAPTER 18C.906.
4. FIELD DATA BASED ON SURVEY PREPARED BY COOPER AND ASSOCIATES, IN AUGUST 2022.
5. PRIOR TO CONSTRUCTION ACTIVITY, UNDERGROUND UTILITY LOCATES SHALL BE REQUESTED BY CALLING THE NORTH CAROLINA ONE CALL CENTER, INC. (811).
6. ALL SEDIMENT CONTROL DEVICES SHALL BE INSTALLED PRIOR TO CONSTRUCTION ACTIVITY AND SHALL BE INSPECTED EVERY SEVEN DAYS OR AFTER EACH RAINFALL OCCURRENCE.
7. CONTACT TOWN OF CHAPEL HILL ENGINEERING DEPARTMENT (919-969-5085) PRIOR TO CLOSING LANES OF TRAFFIC FOR CONSTRUCTION. ALL WORK TO BE DONE PER MUTCD REGULATIONS. LANE CLOSURES PERMITTED BETWEEN 9:00 A.M. AND 4:00 P.M.
8. CONTACT EMERGENCY SERVICES (911) PRIOR TO CLOSING LANES OF TRAFFIC FOR CONSTRUCTION.
9. PROVIDE A MINIMUM 12-INCH VERTICAL SEPARATION BETWEEN NEW WATER MAIN AND ALL NON-SEWER UTILITIES.
10. IF SERVICES ARE OPEN-CUT THEY SHALL BE REPAIRED CONSISTENT WITH THE NCDOT TRENCH REPAIR DETAIL.

LEGEND:

OVERLAY LIMITS

PAVEMENT REMOVAL AND REPLACEMENT LIMITS

No.	REVISIONS	DATE	BY
2	NCDOT RESUBMITTAL	11/16/23	SDL
1	NCDOT SUBMITTAL	9/5/23	SDL

SEAL: NORTH CAROLINA PROFESSIONAL SEAL 029995 ENGINEER STEPHEN D. LETICH 8/1/24

CJS Conveyance, PLLC
320 S. ACADEMY ST
CARY, NC 27511
NC LICENSE #P-1611 WWW.CJSCONVEYANCE.COM

ORANGE WATER AND SEWER AUTHORITY
CARRBORO, NORTH CAROLINA

SOUTH CIRCLE DRIVE WATER MAIN REPLACEMENT

SOUTH CIRCLE PLAN

CJS PROJ. #:	001-005
DATE:	9-5-23
SCALE:	1" = 40'
PROJECT ENGINEER:	SDL
DESIGNED BY:	JGB
DRAWN BY:	JGB
CHECKED BY:	JAR

C1

SHEET NUMBER 2 OF 4

Plotted By: Joey Bolley Layout: 2 SOUTH CIRCLE PLAN July 31, 2024 09:36:24am S:\001 OWASA\005 South Circle Drive WM\80 - Drawings\Plan Sheets\2 PLAN.dwg

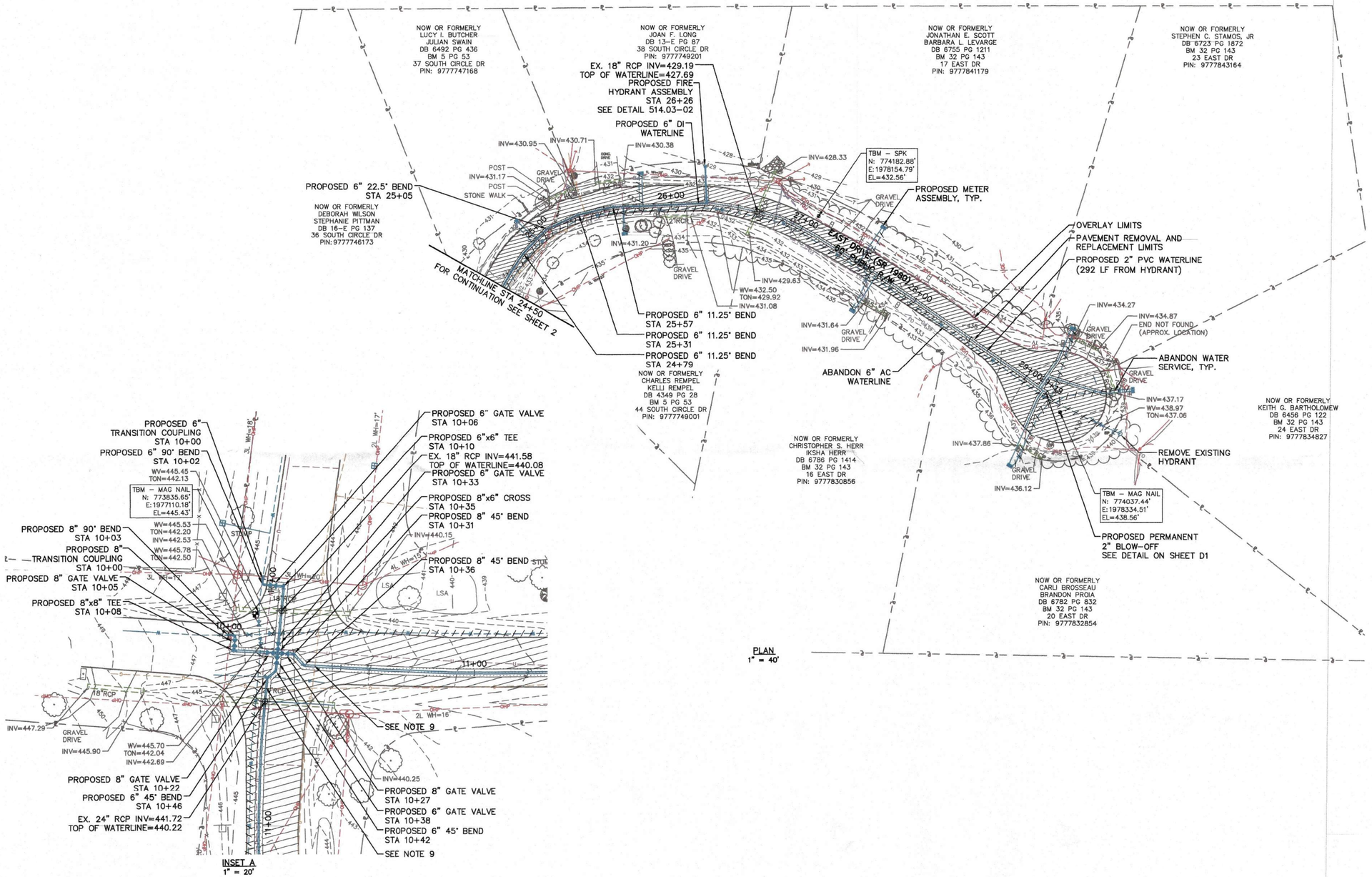
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LEGEND:

OVERLAY LIMITS

PAVEMENT REMOVAL AND REPLACEMENT LIMITS



GRAPHIC SCALE IN FEET
0 20 40 80

No.	REVISIONS	DATE	BY
2	NCDOT RESUBMITTAL	11/16/23	SDL
1	NCDOT SUBMITTAL	9/5/23	SDL

SEAL: NORTH CAROLINA PROFESSIONAL SEAL 029995 ENGINEER STEPHEN D. LEITCH 8/1/24

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ORANGE WATER AND SEWER AUTHORITY
CARRBORO, NORTH CAROLINA

SOUTH CIRCLE DRIVE WATER MAIN REPLACEMENT

SOUTH CIRCLE PLAN

CJS PROJ. #:	001-005
DATE:	9-5-23
SCALE:	1" = 40'
PROJECT ENGINEER:	SDL
DESIGNED BY:	JGB
DRAWN BY:	JGB
CHECKED BY:	JAR

C2

SHEET NUMBER 3 OF 4

Plotted By: Joey Bailey Layout: 3 SOUTH CIRCLE PLAN July 31, 2024 09:42:10am S:\001 OWASA\005 South Circle Drive WM\80 - Drawings\Plan Sheets\2 PLAN.dwg

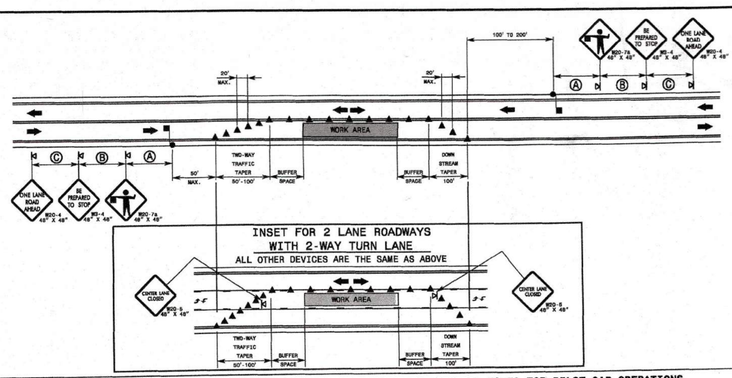
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR

TEMPORARY LANE CLOSURES

2-LANE, 2-WAY ROADWAY-1 LANE CLOSED



GENERAL NOTES FOR FLAGGER OPERATIONS

1- REFER TO STD. 1101.11 SHEET 4 FOR SIGN SPACING.

2- INSTALL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC.

3- REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.

4- PLACE CONES THRU THE WORK AREA AT THE MAXIMUM SPACING EQUAL IN FEET TO 2 TIMES THE POSTED SPEED LIMIT.

5- EXTEND LANE CLOSURES AT THE BUFFER SPACE SUCH THAT STOPPING SIGHT DISTANCE IS PROVIDED TO THE FLAGGER (REFER TO STD. 1101.11 SHEET 2).

6- DO NOT STOP TRAFFIC IN ANY ONE DIRECTION FOR MORE THAN 5 MINUTES AT A TIME.

7- DRUMS OR SKINNY-DRUMS MAY BE USED IN LIEU OF CONES. REFER TO ROADWAY STANDARD DRAWING 1180.01 FOR SKINNY-DRUM REQUIREMENTS.

8- USE FLAGGERS TO CONTROL TRAFFIC AT INTERSECTIONS AFFECTED BY THE LANE CLOSURE. SUPPLEMENT FLAGGERS LOCATED AT INTERSECTIONS WITH FLAGGER AHEAD SIGNS (W20-7a) PLACED APPROXIMATELY 250 FT. IN ADVANCE OF THE FLAGGER. FOR SIGNALIZED INTERSECTIONS PLACE SIGNALS IN THE FLASH MODE AND RECOMMEND THE USE OF LAW ENFORCEMENT.

9- REFER TO 2009 MUTCD, CHAPTER 6, FOR FLAGGER CONTROL, REQUIREMENTS, AND PROCEDURES.

10- DO NOT EXCEED A 1 MILE LANE CLOSURE LENGTH UNLESS OTHERWISE SHOWN IN THE TMP OR AS DIRECTED BY THE ENGINEER.

GENERAL NOTES FOR PILOT CAR OPERATIONS

1- USE PILOT CARS WHEN DIRECTED BY THE ENGINEER.

2- IF ROADWAY WIDTH IS LESS THAN 22 FEET (EOP TO EOP), CONES MAY NOT BE REQUIRED ALONG WORK AREA AND AT THE DISCRETION OF THE ENGINEER, CONES MAY BE OMITTED ALONG THE WORK AREA IF USING A PILOT CAR.

3- CONES ARE ALWAYS REQUIRED IN THE UPSTREAM AND DOWNSTREAM TAPERS.

4- MOUNT SIGN G20-4 "PILOT CAR FOLLOW ME" AT A CONSPICUOUS POSITION ON THE REAR OF THE PILOT VEHICLE.

5- DO NOT INSTALL MORE THAN ONE (1) MILE OF LANE CLOSURE, MEASURED FROM THE BEGINNING OF THE MERGE TAPER TO THE END OF THE LANE CLOSURE.

6- ADVISE RESIDENTS AND BUSINESSES WITHIN THE LANE CLOSURE LIMITS ABOUT METHODS OF SAFE EGRESS AND INGRESS FROM DRIVEWAYS DURING FLAGGING AND PILOT CAR OPERATIONS.

LEGEND

- FLAGGER
- CONE
- PORTABLE SIGN
- DIRECTION OF TRAFFIC FLOW

SHEET 1 OF 15

1101.02

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

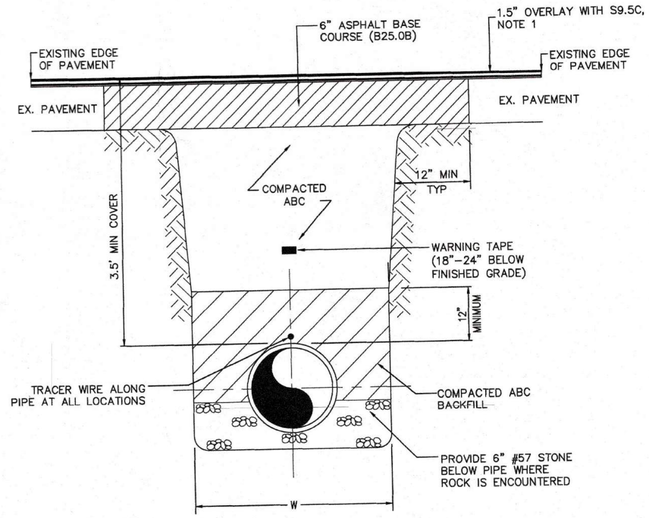
ENGLISH STANDARD DRAWING FOR

TEMPORARY LANE CLOSURES

2-LANE, 2-WAY ROADWAY-1 LANE CLOSED

SHEET 1 OF 15

1101.02



TYPICAL TRENCH AND PAVEMENT REPAIR (NCDOT)

0222107R

PROCEDURE:

1. INSTALL TRAFFIC CONTROL TO MUTCD STANDARDS.
2. SAW CUT PAVEMENT 12" WIDER THAN TRENCH ON ALL SIDES.
3. EXCAVATE TRENCH AND INSTALL PIPE.
4. PLACE BACKFILL AND COMPACT IN 6" UNIFORM LIFTS UNTIL 12.5" FROM SURFACE.
5. PLACE ABC AND COMPACT. IF ASPHALT IS NOT PLACED ON THE SAME DAY THEN A SECOND COMPACTED LIFT NEEDS TO BE PLACED FLUSH WITH THE EXISTING ROADWAY SURFACE.
6. WITHIN 72 HOURS, REMOVE STONE AND ALL LOOSE DEBRIS TO A 6.5" MINIMUM DEPTH. APPLY A TACK COAT TO THE ENTIRE VERTICAL EDGE.
7. PLACE 119.0C ASPHALT AND COMPACT.
8. PLACE S9.5C ASPHALT AND COMPACT TO A SMOOTH LEVEL PATCH.

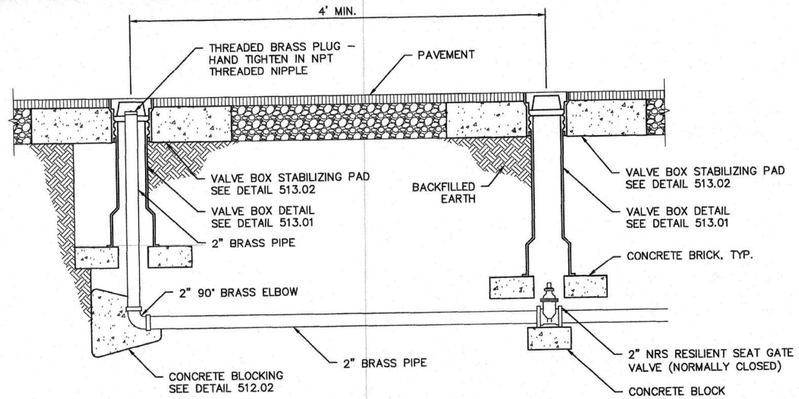
NOTES:

1. OVERLAY LIMITS SHALL BE TO LIMITS OF DISTURBANCE SHOWN ON THE PLANS.
2. IF CUT IS LESS THAN (24) INCHES FROM THE EDGE OF PAVEMENT THEN THE ASPHALT MUST BE REMOVED TO EDGE OF PAVEMENT.
3. THE TRENCH IS TO BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED TO A DENSITY OF AT LEAST 95% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NCDOT UP TO WITHIN ONE FOOT OF THE BOTTOM OF THE PAVEMENT SECTION. TRENCH BACKFILL AND ABC WITHIN ONE FOOT OF THE BOTTOM OF THE PAVEMENT SURFACE SHALL BE COMPACTED TO A DENSITY EQUAL TO 100% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-80 AS MODIFIED BY NCDOT.
4. THE ABC MATERIAL SHALL BE COMPACTED TO A DENSITY EQUAL TO 100% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-80 AS MODIFIED BY NCDOT.

TRENCH EXCAVATION LIMITS		
INTERNAL DIAMETER OF PIPE	W WIDTH OF TRENCH	
	MAX	W=MIN
4"-6"	3'-9"	2'-0"
8"-10"	3'-9"	2'-2"
12"	3'-9"	O.D.+2'
14"-16"	4'-2"	O.D.+2'
18"	4'-4"	O.D.+2'
20",21"	4'-8"	O.D.+2'
24"	4'-11"	O.D.+2'
27"	5'-9"	O.D.+2'
30"	6'-7"	O.D.+2'
36"	7'-4"	O.D.+2'
42"	8'-2"	O.D.+2'
48"	8'-9"	O.D.+2'
54"	9'-4"	O.D.+2'
60"	9'-10"	O.D.+2'
72"	11'-0"	O.D.+2'
78"	11'-8"	O.D.+2'
84"	12'-0"	O.D.+2'
90"	12'-6"	O.D.+2'
96"	13'-0"	O.D.+2'
108"	14'-0"	O.D.+2'
DEPTH OF CUT	S MAXIMUM PAVEMENT REPLACEMENT WIDTH	
0-6'	S=W+4'	
>6-8'	S=W+8'	
>8-10'	S=W+12'	
>10-12'	S=W+16'	
>12-14'	S=W+20'	
>14-16'	S=W+24'	
>16-18'	S=W+28'	
>18'	S=W+32'	

W = TRENCH WIDTH AT BOTTOM OF PIPE. TRENCH SIDE SLOPES SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS.

0222110



NOTES:

1. NO DISCHARGE FROM BLOW-OFF SHOULD GO DIRECTLY INTO A CREEK. OWASA MUST DECLORINATE DISCHARGE BEFORE IT ENTERS A BODY OF WATER.
2. PROVIDE EROSION AND SEDIMENTATION CONTROL FOR DISCHARGE.

PERMANENT 2" BLOW-OFF ASSEMBLY

No.	REVISIONS	DATE	BY
2	NCDOT RESUBMITTAL	11/16/23	SDL
1	NCDOT SUBMITTAL	9/5/23	SDL

SEAL:

NORTH CAROLINA PROFESSIONAL SEAL 029995 ENGINEER STEPHEN D. LETICH 8/1/1894

CJS Conveyance, PLLC
320 S. ACADEMY ST
CARY, NC 27511
NC LICENSE #P-1611
WWW.CJSCONVEYANCE.COM

ORANGE WATER AND SEWER AUTHORITY
CARRBORO, NORTH CAROLINA

SOUTH CIRCLE DRIVE WATER MAIN REPLACEMENT

DETAILS

CJS PROJ. #:	001-005
DATE:	9-5-23
SCALE:	N/A
PROJECT ENGINEER:	SDL
DESIGNED BY:	JGB
DRAWN BY:	JGB
CHECKED BY:	JAR

D1

SHEET NUMBER 4 OF 4

Plotted By: Joey Bailey Layout: 4 DETAILS July 31, 2024 09:36:46am S:\001 OWASA\005 South Circle Drive WM\80 - Drawings\Plan Sheets\4 DETAILS.dwg