

## NTS

## CONSTRUCTION SEQUENCE:

AND HAZARDS. LOCATION MAP

D. AT NIGHT, ADEQUATE BARRICADES WITH REFLECTORIZED MATERIAL AND LIGHTS ARE REQUIRED TO CALL ATTENTION TO AND TO INDICATE THE ACTUAL LOCATION OF OBSTRUCTIONS

A. STREET SPACE IS AT A MINIMUM SO NO MORE SPACE

BEST WAY POSSIBLE UNDER PREVAILING CONDITIONS.

THAN IS ABSOLUTELY NECESSARY. THROUGH BARRICADING

SHOULD BE USED FOR CONSTRUCTION OR MAINTENANCE WORK

AND CHANNELIZATION, THE REMAINING STREET SPACE IS TO BE

B. TRAFFIC CONTROL DEVICES SHALL BE SET UP PRIOR TO THE

START OF CONSTRUCTION OR MAINTENANCE OPERATIONS, AND

SHALL BE REMOVED OR RELOCATED AS THE WORK IS FINISHED

OR WORK CONDITIONS CHANGE. THE AGENCY DOING THE WORK

SHALL PATROL THE WORK SITE AS REQUIRED TO ENSURE THAT

ALL TRAFFIC CONTROL DEVICES ARE IN PLACE AND OPERATING

C. ALL TRAFFIC CONTROL SIGNS FOR THE WORK AREA SHALL

BE REFLECTORIZED. THE REFLECTIVE MATERIALS USED SHALL

REFLECTIVE SHEETING REQUIREMENTS IN SECTION 633 OF THE

STANDARD SPECIFICATONS FOR CONSTRUCTION OF ROADS AND

BE EQUAL TO OR BETTER THAN THE TYPE I, LEVEL A

BRIDGES ON FEDERAL HIGHWAY PROJECTS (FP-74).

E. WHEN NOT IN USE DURING WORK HOURS OR CONSTRUCTION INACTIVITY, EQUIPMENT SHALL BE PARKED IN SUCH A MANOR AS TO NOT CREATE A SIGHT DISTANCE HAZARD BLOCKING THE MOTORISTS VIEW OF TRAFFIC SIGNS AND SIGNALS AND BEING NOT LESS THAN 10' FROM THE TRAVEL LANE.

GENERAL REQUIREMENTS - PAVEMENT WIDENING TRAFFIC CONTROL STANDARD: F. THE MINIMUM WIDTH FOR TEMPORARY TRAVEL LANES IS 10 FEET; HOWEVER, A 12-FOOT LANE IS ADVISABLE AND SHOULD BE PROVIDED WHENEVER POSSIBLE.

USED TO CARRY THE TRAFFIC AROUND THE WORK AREA IN THE G. WHENEVER TRAFFIC MUST BE ROUTED ACROSS THE CENTERLINE, THE TWO DIRECTIONS OF TRAFFIC MUST BE PHYSICALLY SEPARATED. TRAFFIC CONES CAN BE EFFECTIVELY USED FOR THIS PURPOSE DURING DAYLIGHT HOURS: REFLECTORIZED DRUMS MUST BE USED AT NIGHT.

> H. TRAFFIC SHALL NOT BE ROUTED ACROSS CENTERLINE WITH CONES OR DRUMS DURING NON-WORKING HOURS. CONTRACTOR MUST BE ON SITE OR CHANGE PAVEMENT MARKINGS APPROPRIATELY.

I. GENERALLY, THE PEAK FLOW OF TRAFFIC OCCURS BETWEEN THE HOURS OF 7-9 AM AND 4-6 PM, MONDAY THROUGH FRIDAY. DURING THESE HOURS, CONSTRUCTION OR MAINTANCE WORK WHICH INVOLVE A LANE CLOSURE OR IN ANY WAY IMPEDES TRAFFIC WILL NOT BE ALLOWED ON THOROUGHFARE STREETS EXCEPT FOR EMERGENCY CONDITIONS OR WITH PRIOR APPROVAL FROM THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION.

J. THE AGENCY DOING THE WORK SHALL PROVIDE FLAGGERS AND/OR POLICE CONTROL WHEN REQUIRED. THE CONTRACTOR MAY ALSO BE REQUIRED TO PROVIDE A UNIFORMED OFFICER TO CONTROL TRAFFIC WHEN WORKING IN AND AROUND A SIGNALIZED INTERSECTION.

K. EVERY ATTEMPT SHALL BE MADE TO SCHEDULE AND EXPEDITE THE WORK TO CAUSE THE LEAST INCONVENIENCE TO THE TRAVELING PUBLIC.

L. IN SITUATIONS NOT COVERED IN THIS STANDARD, THE PROTECTION OF TRAVELING PUBLIC AND THE PROTECTION OF THE WORKERS ON SITE WILL DICTATE THE MEASURES TO BE TAKEN CONSISTANT WITH THE GENERAL PRINCIPLES OF CHAPTER 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

M. THE CONTRACTOR, UTILITY COMPANY OR GOVERNMENTAL AGENCY INVOLVED IN THE WORK IS RESPONSIBLE FOR NOTIFYING THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION OF ANY MAJOR WORK WHERE THE NUMBER OF TRAVEL LANES ARE REDUCED FROM NORMAL CONDITIONS OR THE STREET IS REQUIRED TO BE CLOSED. EXCEPT IN EMERGENCIES, THE FOLLOWING NOTIFICATION IS REQUIRED:

1. BEGINNING OF CONSTRUCTION - TEN DAYS PRIOR TO BEGINNING WORK. 2. CLOSING 1 OR MORE TRAVEL LANES - FIVE(5) WORKING DAYS PRIOR TO THE SCHEDULED WORK.

THE SCHEDULED WORK. THIS LEAD TIME IS NECESSARY FOR PLANNING AND NOTIFYING THE PUBLIC OF EXPECTED CHANGES IN THE NORMAL TRAFFIC

N. DURING CONSTRUCTION INACTIVITY, THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE TRAVEL LANE IN EACH DIRECTION. THE CONTRACTOR SHALL BACK FILL DROP-OFF ADJACENT TO THE TRAVEL LANE IN ACCORDANCE WITH SECTION XI OF THE

O. THE NCDOT DISTRICT ENGINEER OR REPRESENTATIVES ARE AUTHORIZED TO STOP ANY CONSTRUCTION OR MAINTENANCE ACTIVITY WHICH IS NOT PROPERLY SIGNED AND BARRICADED AS REQUIRED BY THIS STANDARD AND THE MUTCD UNTIL SUCH REQUIREMENTS ARE MET.

P. THIS DESIGN STANDARD CANNOT BE USED FOR ALL ROADWAY CONSTRUCTION SITUATIONS. IT IS INTENDED ONLY TO BE USED AS A GUIDELINE. SPECIFIC SITUATIONS MAY REQUIRE ENGINEERING JUDGEMENT IN THE PLACEMENT OF TRAFFIC CONTROL DEVICES, BECAUSE OF LIMITED VERTICAL AND/OR HORIZONTAL SIGHT DISTANCE.

Q. WHEN PERSONNEL AND/OR EQUIPMENT ARE WITHIN 3' OF THE EDGE OF AN OPEN TRAVEL LANE, THE CONTRACTOR SHALL REFER TO THE TRAFFIC CONTROL PLAN OR NCDOT ROADWAY STD. DWG. NO. 150.05A FOR THE APPROPRIATE LANE CLOSURE.

R. OPERATIONAL SIGNS ARE GENERALLY MOUNTED ON 3. CLOSING A STREET - TEN (10) WORKING DAYS PRIOR TO PORTABLE SUPPORT. THESE ARE USUALLY USED FOR SHORT TERM OPERATIONS TO WARN AND GUIDE TRAFFIC.

> S. ALL DRUMS SHALL BE BALLASTED IN SUCH A MANNER THAT THEY WILL BE STABLE UNDER WIND AND VEHICLE ACTION. BALLASTING SHALL BE DONE WITH SANDBAGS OR OTHER YEILDING MATERIAL SITUATED ON THE BASE OF THE DRUM.

1. LANE CLOSURES SHALL BE INSTALLED WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC. LANE CLOSURES SHALL BE REMOVED AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM SIDE OF TRAFFIC.

2. TRAFFIC SHOULD NOT BE STOPPED IN ANY ONE DIRECTION FOR MORE THAN 5 MINUTES AT A TIME.

3. THE POSTED SPEED LIMIT ON SOUTH POINT DRIVE (SR 2560) IS 45 MPH.

4. ALL DRAINAGE FACILITIES, CURB CUTS, AND CURB RAMPS MUST BE CONSTRUCTED IN COMPLIANCE WITH NCDOT STANDARDS & SPECIFICATIONS.

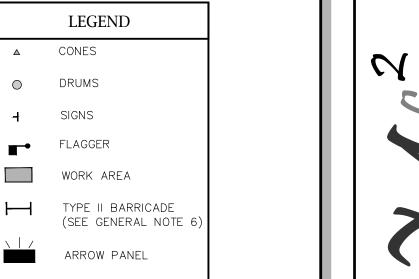
5. PAVEMENT SECTION FOR ALL PAVEMENT SHALL BE A MINIMUM OF: 6" B25.OC BASE COARSE (2 - 3.0" LIFTS)

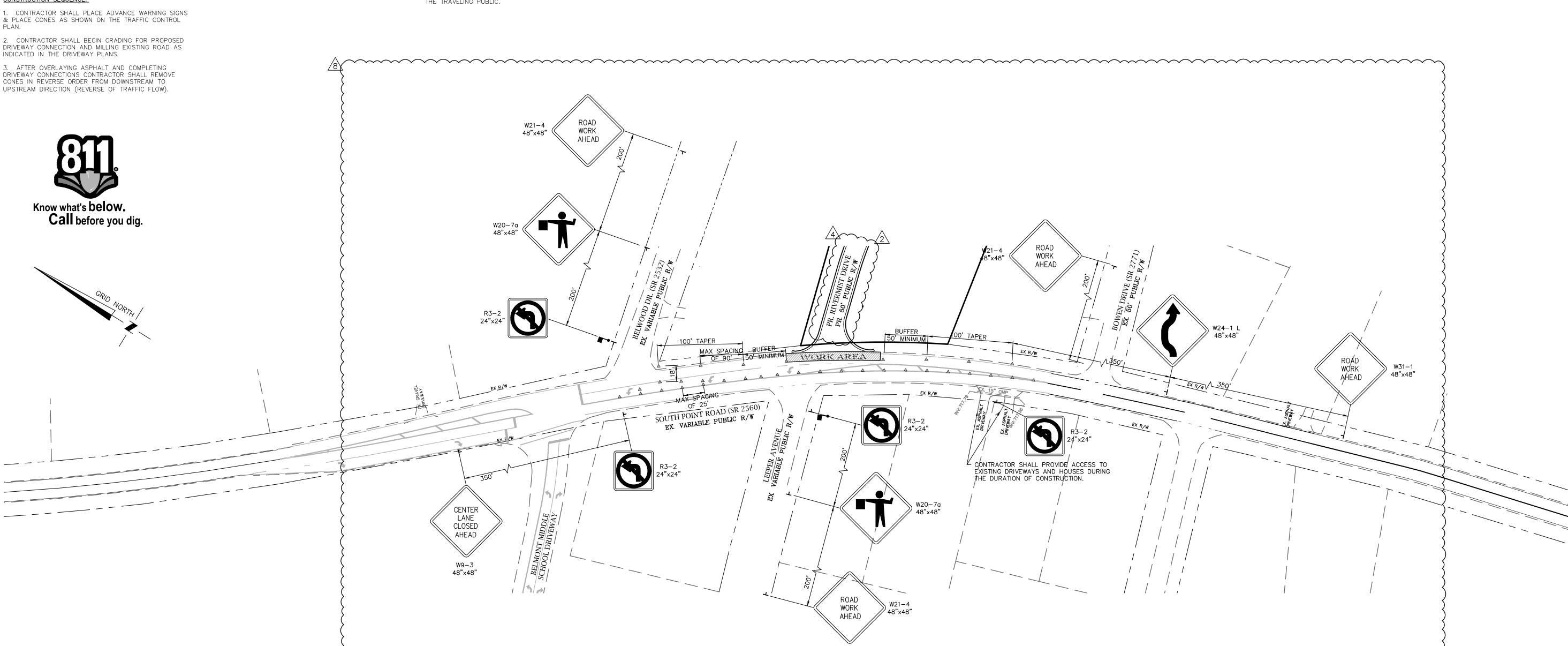
3.5" 119.0C ASPHALT INTERMEDIATE COURSE AND

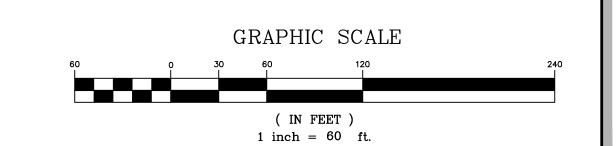
6. TYPE II BARRICADE REQUIRED ONLY IF WORK ZONE IS UNATTENDED

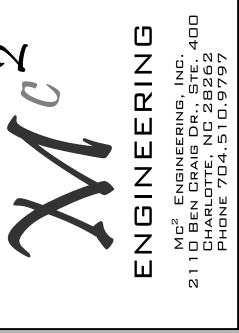
1.5" S9.5C ASPHALT SURFACE COARSE OR EQUIVALENT

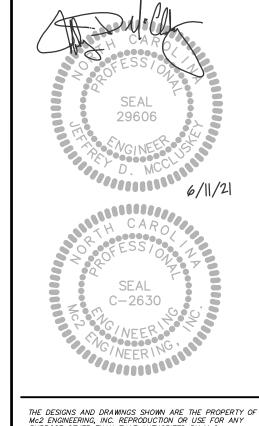
7. ALL LANE MARKINGS ON SOUTH POINT DRIVE AND OF ADJACENT INTERSECTIONS SHALL BE THERMOPLASTIC PER NCDOT STANDARDS & SPECIFICATIONS.











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 $\simeq$ ARTNEI CH ROAD

B

ERMIST

SHINNVILLE RIDGE

S. POINT ROAD **TRAFFIC** CONTROL **PLAN** 

REVISIONS 2 | 11/27/18 | BELMONT COMMENTS 4 9/24/19 | BELMONT COMMENTS 8 6/11/21 | NCDOT/BELMONT CMTS

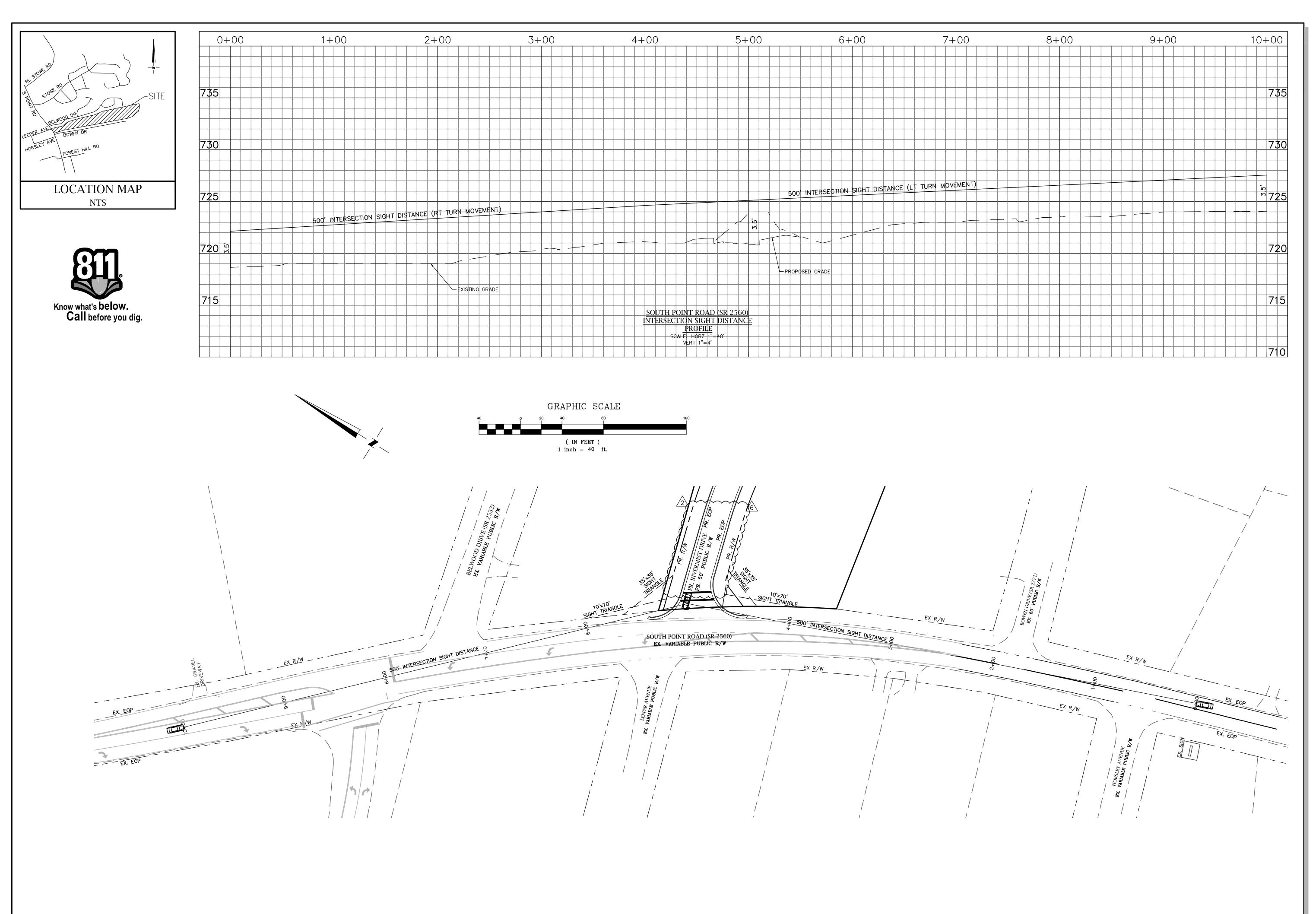
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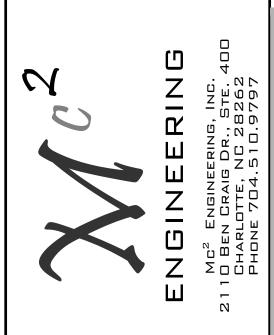
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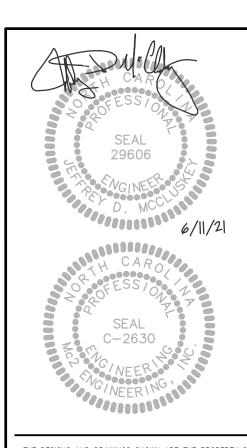
DATE:

DESIGNED BY: REVIEWED BY:

OCTOBER 8, 2018







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PARTNERS, IURCH ROAD

SHINNVILLE RIDGE

RIVERMIST

S. POINT DRIVE INTERSECTION SIGHT DISTANCE

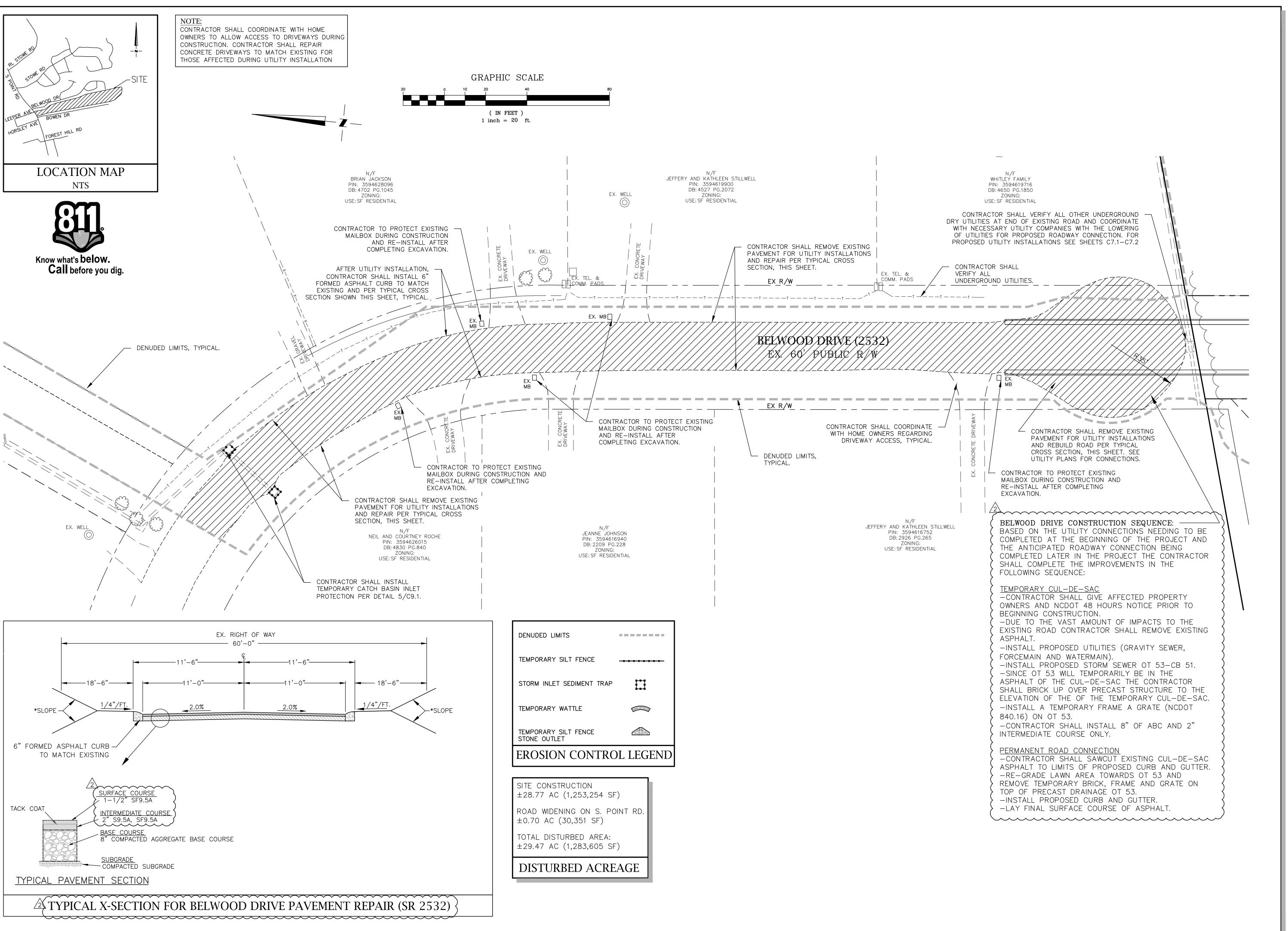
REVISIONS			
2	11/27/18	BELMONT COMMENTS	
4	9/24/19	BELMONT COMMENTS	
8	6/11/21	NCDOT/BELMONT CMTS	

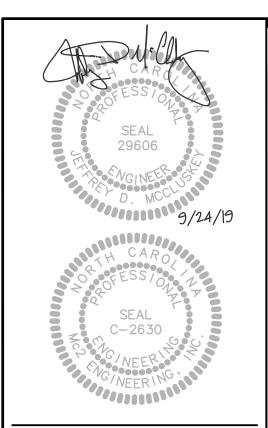
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PARTNERS, URCH ROAD H POINT

RIDGE SHINNVILLE

H

BELWOOD DRIVE ROADWAY **IMPROVEMENTS** 

REVISIONS				
2	11/27/18	BELMONT COMMENTS		

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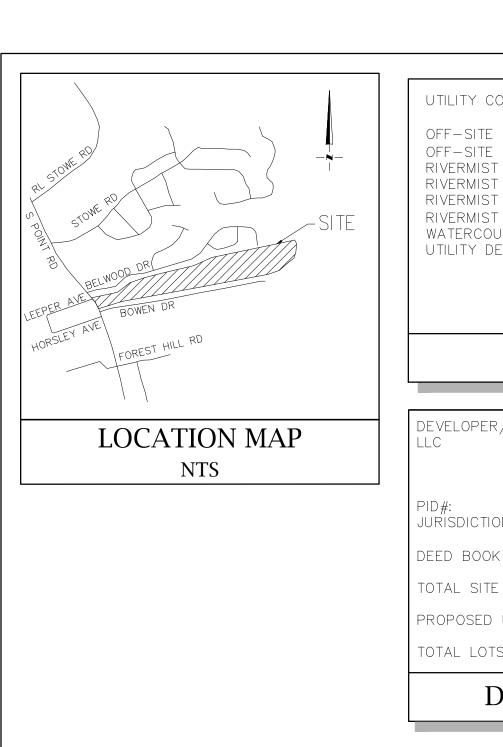
DESIGNED BY: REVIEWED BY:

DATE:

OCTOBER 8, 2018

18-017

TAP



## UTILITY COVER C7.0 OFF-SITE UTILITY CONNECTIONS/BELWOOD C7.1 C7.2 C7.3 OFF-SITE UTILITY CONNECTIONS/BELWOOD RIVERMIST DRIVE WATER AND SEWER C7.4 RIVERMIST DRIVE WATER AND SEWER C7.5 RIVERMIST DRIVE WATER AND SEWER C7.6 RIVERMIST DRIVE WATER AND SEWER/OFF-SITE WATERCOURSE WAY WATER AND SEWER UTILITY DETAILS C9.4 - C9.6

## SHEET INDEX

DEVELOPMENT SUMMARY			
TOTAL LOTS:	86		
PROPOSED USE:	SINGLE FAMILY		
TOTAL SITE ACREAGE:	44.45 AC		
DEED BOOK & PAGE:	4977 / 1780		
PID#: JURISDICTION:	207491 & 207492 CITY OF BELMONT		
LLO	20607 BETHEL CHURCH ROAD CORNELIUS, NC 28031		
DEVELOPER/OWNER:	SHINNVILLE RIDGE PARTNERS,		

CITY OF BELMONT GENERAL UTILITY NOTES: I. WAT<u>er services</u>. Parts for water services must be as listed on the water service CONNECTION PARTS AS AVAILABLE ON THE CITY'S WEBSITE. THE LIST HAS RECENTLY BEEN UPDATED TO

INCLUDE THE AMI METERS NOW IN USE THROUGHOUT THE CITY. 2. WATER VOLUME AND PRESSURE. IT IS NOTED THAT THE CITY OF BELMONT DOES NOT GUARANTEE WATER VOLUME AND WATER DISTRIBUTION SYSTEM PRESSURE.

3. <u>Water required for fire protection.</u> No vertical building construction may proceed until THE WATER MAINS AND FIRE HYDRANTS ARE INSTALLED AND APPROVED FOR OPERATION BY THE NCDENR PUBLIC WATER SUPPLY SECTION. THIS PROCESS REQUIRES COMPLETE INSTALLATION, PRESSURE TESTING OF THE WATER MAIN, DISINFECTION, ACCEPTABLE BACTERIOLOGICAL TEST RESULTS, CERTIFICATION BY THE DESIGN ENGINEER, AND APPLICANT CERTIFICATION. THE CONSTRUCTION OF THE WATER LINE WILL LIKELY BE THE CRITICAL PATH ITEM FOR STARTING BUILDING CONSTRUCTION.

4. WATER AND SEWER SYSTEMS ACTIVATION. THESE FACILITIES CANNOT BE ACTIVATED UNTIL FINAL APPROVAL FROM NCDENR IS OBTAINED AND THE NCDENR APPROVAL LETTERS ARE RECEIVED BY THE CITY. THE CITY EXPECTS THE DESIGN ENGINEER TO PROVIDE THE NECESSARY SERVICES REQUIRED IN ORDER FOR HIM TO MAKE THE CERTIFICATIONS NECESSARY FOR SUCH FINAL APPROVALS. THE DEVELOPER SHALL VERIFY THAT HE HAS AUTHORIZED THE DESIGN ENGINEER TO PERFORM SUCH INSPECTIONS. ATTACHED IS THE DEVELOPER'S ACKNOWLEDGEMENT OF ENGINEER'S RESPONSIBILITIES DURING CONSTRUCTION FORM THAT MUST BE SIGNED AND SUBMITTED PRIOR TO PLAN APPROVAL. IF A DIFFERENT ENGINEER WILL BE RETAINED BY THE DEVELOPER FOR CONSTRUCTION PHASE PROFESSIONAL SERVICES, THE DEVELOPER MUST NOTIFY THE CITY IN WRITING OF SUCH CHANGE IN ENGINEER. A NOTE

CONNECTION TO THE EXISTING BELMONT WATER MAIN CAN BE MADE ONLY AFTER SUCCESSFUL SAMPLING AND TESTING. REDUCED PRESSURE BACKFLOW DEVICE MUST BE TESTED & CERTIFIED AT EACH LOCATION.

RELATION OF WATER MAINS TO SEWERS (TAKEN FROM 15A NCAC 18C SECTION .0906 AND 15A NCAC 2T:

SEWER AND WATER MAINS SHALL HAVE AT LEAST , 10 FEET HORIZONTALLY SEPARATION MEASURED FROM OUTSIDE EDGE TO OUTSIDE EDGE OF PIPE. 2. IF IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND VERTICAL SEPARATION AS DESCRIBED ABOVE OR ANYTIME THE SEWER IS OVER THE WATER MAIN, BOTH THE WATER MAIN AND SEWER MUST BE CONSTRUCTED OF FERROUS PIPE COMPLYING WITH PUBLIC WATER SUPPLY DESIGN STANDARDS AND BE PRESSURE TESTED TO 150 PSI TO ASSURE

WATERTIGHTNESS BEFORE BACKFILLING. 3. A 24 INCH VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN STORM SEWER AND SANITARY SEWER LINES OR FERROUS PIPE SPECIFIED.

CROSSING A WATER MAIN OVER A SEWER 4. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER, THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 24 INCHES ABOVE THE TOP OF THE SEWER, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT AN 24 INCH VERTICAL SEPARATION IN WHICH CASE BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. <u>Crossing a water main under a sewer</u>

. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER, BOTH THE WATER MAIN AND THE SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.

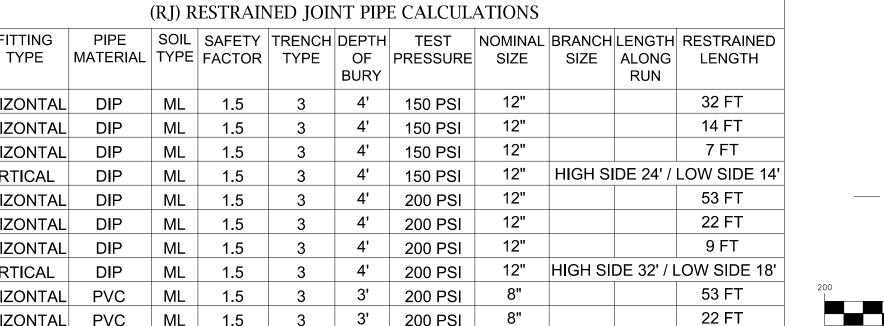
SANITARY SEWER LATERAL NOTE:

ALL SANITARY SEWER LATERALS SHALL BE 4"PVC SCHEDULE 40 PIPE, OR 4"CAST IRON SOIL PIPE WHERE SEPARATIONS FROM WATER MAINS CANNOT BE MAINTAINED. SERVICES SHALL BE TERMINATED WITHIN THE 5 FOOT UTILITY EASEMENT LOCATED ACROSS THE FRONT OF THE PROPOSED LOTS. THE TERMINATION SHALL BE WITH A 4"CLEANOUT. THE SERVICE LINE SHALL BE PLUGGED AT THE CLEANOUT AND INCLUDED IN THE TESTING OF THE MAINLINE SANITARY SEWER LINE. THE CLEANOUT SHALL BE PROTECTED FROM DAMAGE WITH ORANGE FENCING DURING THE CONSTRUCTION OF THE STREET IMPROVEMENTS AND THE HOUSE. SEWER SERVICE LINES SHALL NOT BE LOCATED UNDER PROPOSED DRIVEWAY PAVEMENTS. IF UPON PERMITTING OF PROPOSED HOUSES IT IS DETERMINED THAT THE SERVICE WILL BE UNDER DRIVEWAY PAVEMENT, THE DEVELOPER WILL BE RESPONSIBLE FOR ABANDONING THE SEWER SERVICE IN ACCORDANCE WITH CITY REQUIREMENTS AND INSTALLING A NEW SEWER SERVICE IN THE CORRECT LOCATION."

WATER SERVICE NOTE:

ALL WATER SERVICES SHALL BE 1"TYPE "K" COPPER PIPE. SERVICES INSTALLED UNDER THIS PROJECT SHALL INCLUDE THE WATER SERVICE SADDLE WITH STAINLESS STEEL STRAPS, CORPORATION STOP, COPPER PIPE, AND 1"X 3/4" REDUCING CURB STOP. THE CURB STOP SHALL BE LOCATED WITHIN THE 5 FOOT UTILITY EASEMENT LOCATED ACROSS THE FRONT PROTECTED WITH A PLASTIC VALVE BOX AND ORANGE FENCING. WATER SERVICE LINES SHALL NOT BE LOCATED UNDER PROPOSED DRIVEWAY PAVEMENTS. IF UPON PERMITTING OF PROPOSED HOUSES IT IS DETERMINED THAT THE SERVICE WILL BE UNDER DRIVEWAY PAVEMENT, THE DEVELOPER WILL BE RESPONSIBLE FOR ABANDONING THE WATER SERVICE IN ACCORDANCE WITH CITY REQUIREMENTS AND INSTALL A NEW WATER SERVICE IN THE CORRECT LOCATION. OF A FEE BASIS, THE CITY OF BELMONT WILL INSTALLING THE METER YOKE, METER, AND METER BOX WHEN THE INDIVIDUAL LOT WATER SERVICE ACCOUNT IS ESTABLISHED. THE HOUSE BUILDER PLUMBER SHALL DIG UP AND EXPOSE THE CURB STOP AND MAKE SURE THAT THE CURB STOP IS AT THE PROPER ELEVATION PRIOR TO THE CITY INSTALLATION OF A METER."

THE LOW PRESSURE SEWER SYSTEM (LPSS) TO BE OWNED AND MAINTAINED BY THE HOA SHALL INCLUDE THE INDIVIDUAL PUMP STATIONS, 1.5" SERVICE FORCEMAINS AND 3" COMBINED FORCEMAIN THAT SERVES LOTS (41-52,54,55).



68 FT

104 FT

(RJ) RESTRAINED JOINT PIPE CALCULATIONS

45° | HORIZONTAL

45° HORIZONTAL

22.5° HORIZONTAL DIP

90° |HORIZONTAL| PVC

|≤| 45° |HORIZONTAL| PVC | ML |

PVC | ML | 1.5 | 3

REDUCER PVC ML 1.5 3 3' 200 PSI

 $\widetilde{\prod}$  22.5° HORIZONTAL

BURY

4' 150 PSI

4' 150 PSI

4' 200 PSI

4' 200 PSI

4' 200 PSI

3' 200 PSI

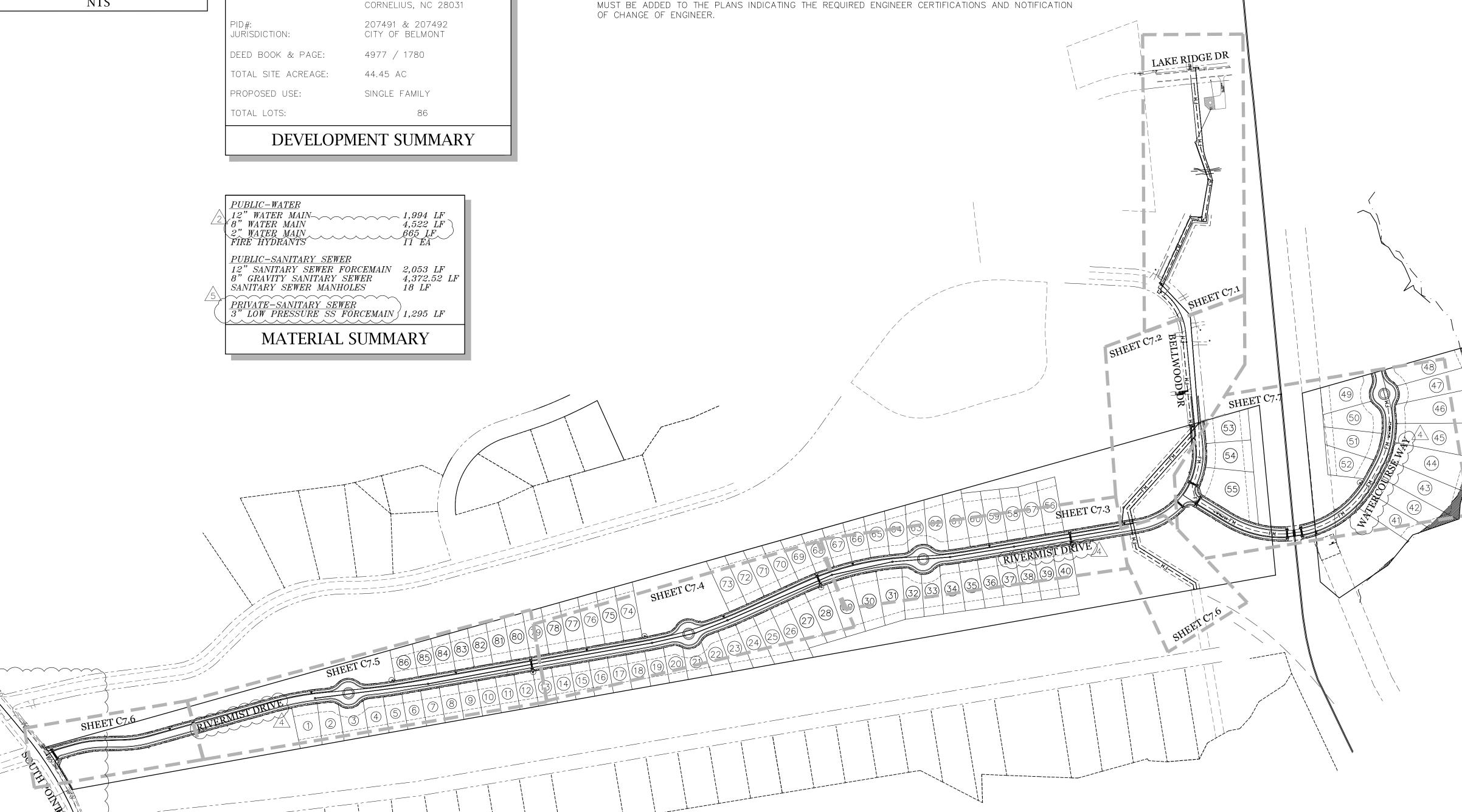
3' 200 PSI

12"

8"

**PURPOSES ONLY** 

PROJECT NO .: DESIGNED BY: REVIEWED BY: DATE: OCTOBER 8, 2018



NORFOLK SOUTHERN RAIL ROAD STANDARD NOTES:

INSTALLED OR RELOCATED.

AND APPLICABLE FEES. FOR UTILITY APPLICATIONS GO TO:

WWW.NSCORP.COM/CONTENT/NSCORP/EN/REAL-ESTATE/NORFOLK-

SOUTHERN-SERVICES/WIRE-PIPELINE-FIBER-OPTIC-PROJECTS.HTML

NOTE: LICENSE AGREEMENT MUST BE EXECUTED PRIOR TO UTILITY BEING

CONTRACTOR WILL NOT BE PERMITTED TO STORE ANY EQUIPMENT ON NS

ACCORDANCE WITH SECTION E.5.K.1 OF THE NS PUBLIC PROJECTS MANUAL

ALL ROADWAY WORK WITHIN 2' OF THE OUTSIDE EDGE OF RAIL SHALL BE

COMPLETED BY NORFOLK SOUTHERN FORCES AT THE SPONSOR'S EXPENSE.

PROPERTY WITHOUT PERMISSION FROM THE NS RAILROAD ENGINEER IN

ALL UTILITY INSTALLATIONS OR RELOCATIONS THAT ARE REQUIRED IN

CONJUNCTION WITH THIS PROJECT CAN BE INSTALLED OR RELOCATED AS PART

OF THE PROJECT PROVIDED THE CONSTRUCTION IS PERFORMED BY THE PROJECT

CONTRACTOR OR PROJECT CONTRACTOR'S SUB-CONTRACTOR. HOWEVER, THE UTILITY MUST SUBMIT AN APPLICATION FOR-THE-INSTALLATION-OR RELOCATION

TO NS PIPE AND WIRE FOR APPROPRIATE HANDLING FOR LICENSE AGREEMENT

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STE. 826 979

ARTNERS, CH ROAD

RIDGE

SHINNVILLE

UTILITY

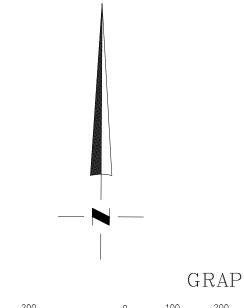
**COVER SHEET** 

REVISIONS

2 | 11/27/18 | BELMONT COMMENTS 4 9/24/19 BELMONT COMMENTS 5 10/30/20 NS/LPSS COMMENTS 8 6/11/21 NCDOT/BELMONT CMTS

FINAL DRAWING

FOR REVIEW



Know what's below. Call before you dig

GRAPHIC SCALE

( IN FEET )

1 inch = 200 ft.