

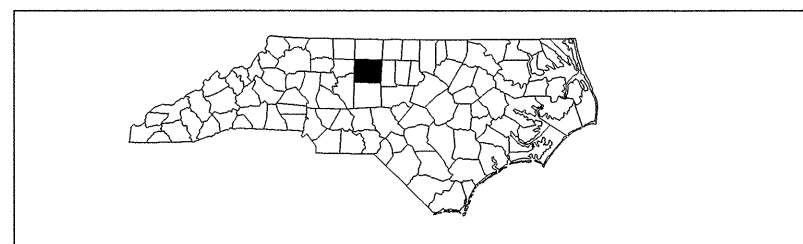
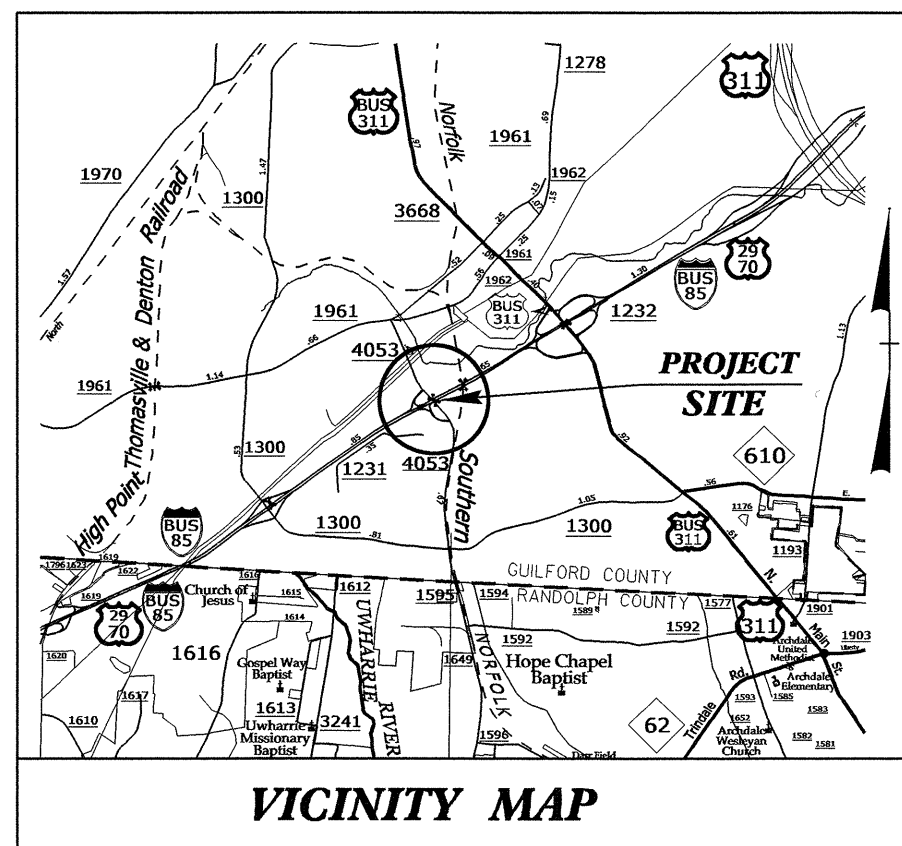
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T.I.P. NO.	SHEET NO.
B-4760	UC-1

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

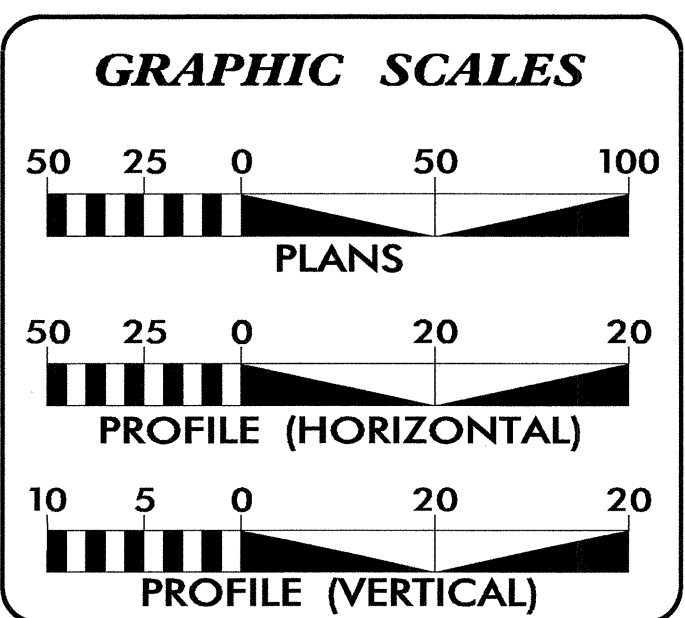
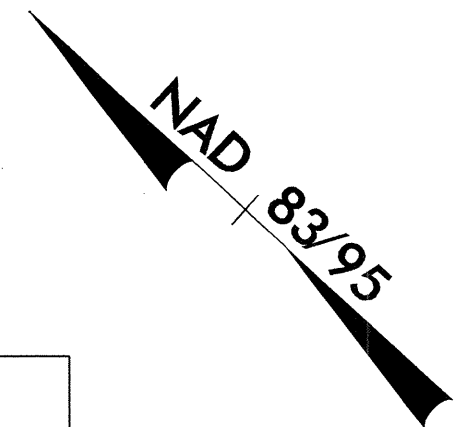
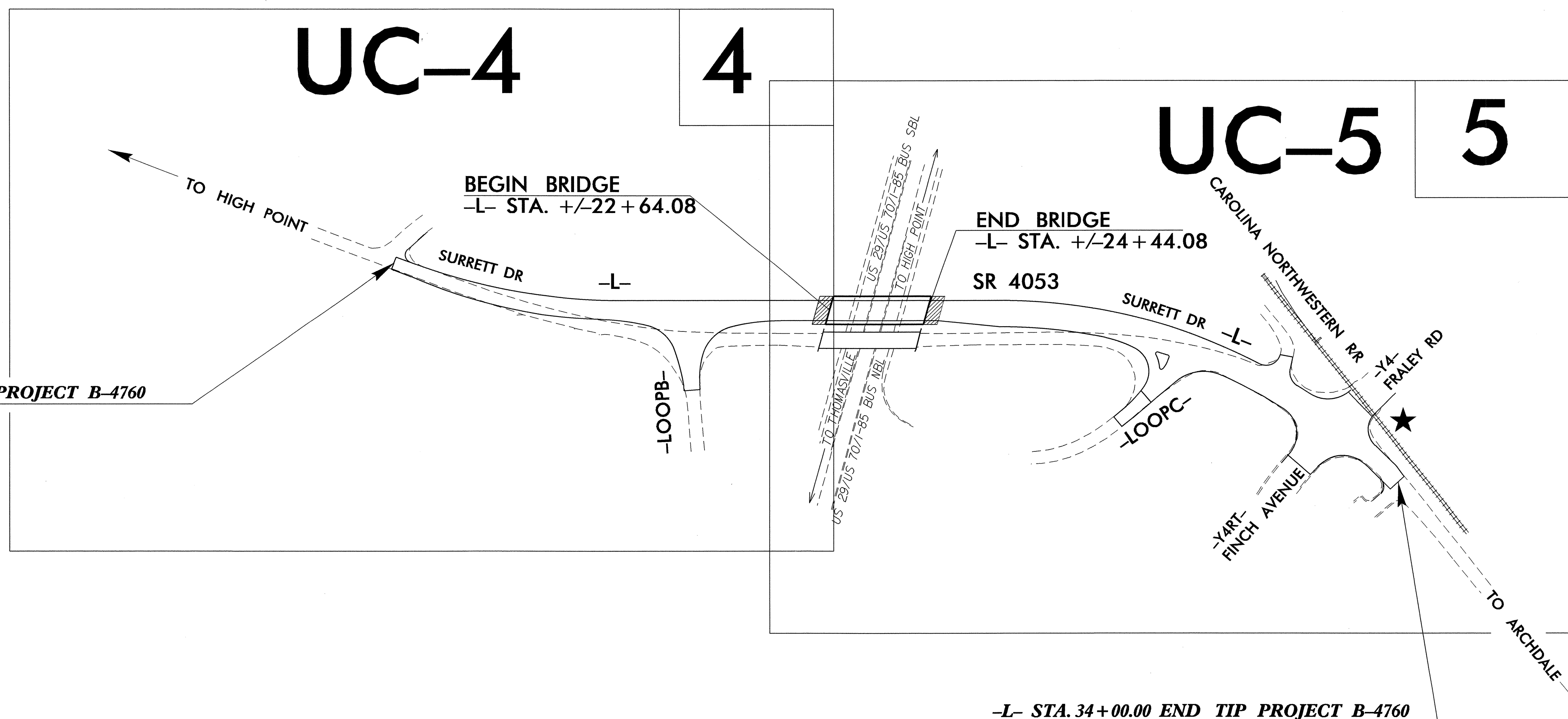
**UTILITY CONSTRUCTION PLANS**  
**GUILFORD COUNTY**



LOCATION: REPLACEMENT OF BRIDGE 77 ON SR 4053  
OVER US 29 /US 70/I-85 BUS

TYPE OF WORK: UTILITIES

TIP PROJECT: B-4760

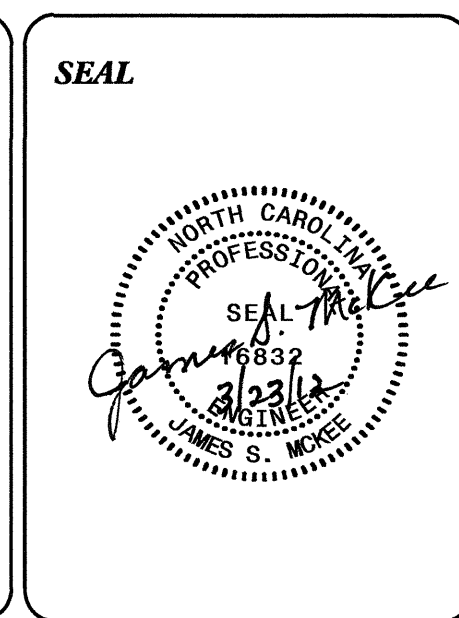


**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2	UTILTIY SYMOLOGY
UC-3	NOTES
UC-3A	DETAILS
UC-4 THRU UC-5	UTILITY CONSTRUCTION SHEETS
UC-6 THUR UC-8	PROFILE SHEETS

**WATER AND SEWER OWNERS ON PROJECT**

(1) WATER CITY OF HIGH POINT  
(2) SANITARY SEWER CITY OF HIGH POINT



PREPARED IN THE OFFICE OF:  
**DIVISION OF HIGHWAYS**  
UTILITIES UNIT  
UTILITIES ENGINEERING

1591 MAIL SERVICES CENTER  
RALEIGH NC 27699-1591  
PHONE (919) 707-6690  
FAX (919) 250-4151

**Roger Worthington, P.E.** UTILITIES SECTION ENGINEER  
**Steve McKee, P.E.** UTILITIES SQUAD LEADER PROJECT ENGINEER  
**Jamshid Hafshejani** UTILITIES PROJECT DESIGNER

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

# UTILITIES PLAN SHEET SYMBOLS

## PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	
11 1/4 Degree Bend	
22 1/2 Degree Bend	
45 Degree Bend	
90 Degree Bend	
Plug	
Tee	
Cross	
Reducer	
Gate Valve	
Butterfly Valve	
Tapping Valve	
Line Stop	
Line Stop with Bypass	
Blow Off	
Fire Hydrant	
Relocate Fire Hydrant	
Remove Fire Hydrant	REM FH
Water Meter	
Relocate Water Meter	
Remove Water Meter	REM WM
Water Pump Station	
RPZ Backflow Preventer	
DCV Backflow Preventer	
Relocate RPZ Backflow Preventer	
Relocate DCV Backflow Preventer	

## PROPOSED SEWER SYMBOLS

Gravity Sewer Line (Sized as Shown)	
Force Main Sewer Line (Sized as Shown)	
Manhole (Sized per Note)	
Sewer Pump Station	

## PROPOSED MISCELLANEOUS UTILITIES SYMBOLS

Power Pole	
Telephone Pole	
Joint Use Pole	
Telephone Pedestal	
Utility Line by Others (Type as Shown)	
Trenchless Installation	
Encasement by Open Cut	
Encasement	

Thrust Block	
Air Release Valve	
Utility Vault	
Concrete Pier	
Steel Pier	
Plan Note	
Pay Item Note	

## EXISTING UTILITIES SYMBOLS

Power Pole		*Underground Power Line	
Telephone Pole		*Underground Telephone Cable	
Joint Use Pole		*Underground Telephone Conduit	
Utility Pole		*Underground Fiber Optics Telephone Cable	
Utility Pole with Base		*Underground TV Cable	
H-Frame Pole		*Underground Fiber Optics TV Cable	
Power Transmission Line Tower		*Underground Gas Pipeline	
Water Manhole		Aboveground Gas Pipeline	
Power Manhole		*Underground Water Line	
Telephone Manhole		Aboveground Water Line	
Sanitary Sewer Manhole		*Underground Gravity Sanitary Sewer Line	
Hand Hole for Cable		Aboveground Gravity Sanitary Sewer Line	
Power Transformer		*Underground SS Forced Main Line	
Telephone Pedestal		Underground Unknown Utility Line	
CATV Pedestal		SUE Test Hole	
Gas Valve		Water Meter	
Gas Meter		Water Valve	
Located Miscellaneous Utility Object		Fire Hydrant	
Abandoned According to Utility Records	AATUR	Sanitary Sewer Cleanout	
End of Information	E.O.I.		

\*For Existing Utilities  
 Utility Line Drawn from Record (Type as Shown)   
 Designated Utility Line (Type as Shown)

5/14/99  
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 REV: 2/11/2012

# UTILITY CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
<b>B-4760</b>	<b>UC-3</b>
DESIGNED BY: <b>JH</b>	
DRAWN BY: <b>JH</b>	
CHECKED BY: <b>JSM</b>	
APPROVED BY: <b>JSM</b>	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

## GENERAL NOTES:

1. THE PROPOSED UTILITY CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2012.
2. THE EXISTING UTILITIES BELONG TO CITY OF HIGH - POINT .
3. ALL WATER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL AND NATURAL RESOURCES, DIVISION OF ENVIRONMENTAL HEALTH. ALL SEWER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES, DIVISION OF WATER QUALITY. PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODES.
4. THE UTILITY OWNER OWNS THE EXISTING UTILITY FACILITIES AND WILL OWN THE NEW UTILITY FACILITIES AFTER ACCEPTANCE BY THE DEPARTMENT. THE DEPARTMENT OWNS THE CONSTRUCTION CONTRACT AND HAS ADMINISTRATIVE AUTHORITY. COMMUNICATIONS AND DECISIONS BETWEEN THE CONTRACTOR AND UTILITY OWNER ARE NOT BINDING UPON THE DEPARTMENT OR THIS CONTRACT UNLESS AUTHORIZED BY THE ENGINEER. AGREEMENTS BETWEEN THE UTILITY OWNER AND CONTRACTOR FOR THE WORK THAT IS NOT PART OF THIS CONTRACT OR IS SECONDARY TO THIS CONTRACT ARE ALLOWED, BUT ARE NOT BINDING UPON THE DEPARTMENT.
5. PROVIDE ACCESS FOR THE DEPARTMENT PERSONNEL AND THE OWNER'S REPRESENTATIVES TO ALL PHASES OF CONSTRUCTION. NOTIFY DEPARTMENT PERSONNEL AND THE UTILITY OWNER TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK AND ONE WEEK PRIOR TO SERVICE INTERRUPTION. KEEP UTILITY OWNERS' REPRESENTATIVES INFORMED OF WORK PROGRESS AND PROVIDE OPPORTUNITY FOR INSPECTION OF CONSTRUCTION AND TESTING.

6. THE PLANS DEPICT THE BEST AVAILABLE INFORMATION FOR THE LOCATION, SIZE, AND TYPE OF MATERIAL FOR ALL EXISTING UTILITIES. MAKE INVESTIGATIONS FOR DETERMINING THE EXACT LOCATION, SIZE, AND TYPE MATERIAL OF THE EXISTING FACILITIES AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND FOR AVOIDING DAMAGE TO EXISTING FACILITIES. REPAIR ANY DAMAGE INCURRED TO EXISTING FACILITIES TO THE ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE DEPARTMENT.
7. MAKE FINAL CONNECTIONS OF THE NEW WORK TO THE EXISTING SYSTEM WHERE INDICATED ON THE PLANS, AS REQUIRED TO FIT THE ACTUAL CONDITIONS, OR AS DIRECTED.
8. MAKE CONNECTIONS BETWEEN EXISTING AND PROPOSED UTILITIES AT TIMES MOST CONVENIENT TO THE PUBLIC, WITHOUT ENDANGERING THE UTILITY SERVICE, AND IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS. MAKE CONNECTIONS ON WEEKENDS, AT NIGHT, AND ON HOLIDAYS IF NECESSARY.
9. ALL UTILITY MATERIALS SHALL BE APPROVED PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, " SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.

## PROJECT SPECIFIC NOTES:

1. CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107, AND 1550 OF THE STANDARD SPECIFICATIONS CONCERNING TRENCHLESS INSTALLATION. IT IS CONTRACTOR'S RESPONSIBILITY TO HAVE BORE PATH DESIGNED AND SEALED BY A LICENSED NORTH CAROLINA PROFESSIONAL ENGINEER. NO DAMAGE IS ALLOWED TO RIVER, WETLANDS, OR BUFFER ZONES.

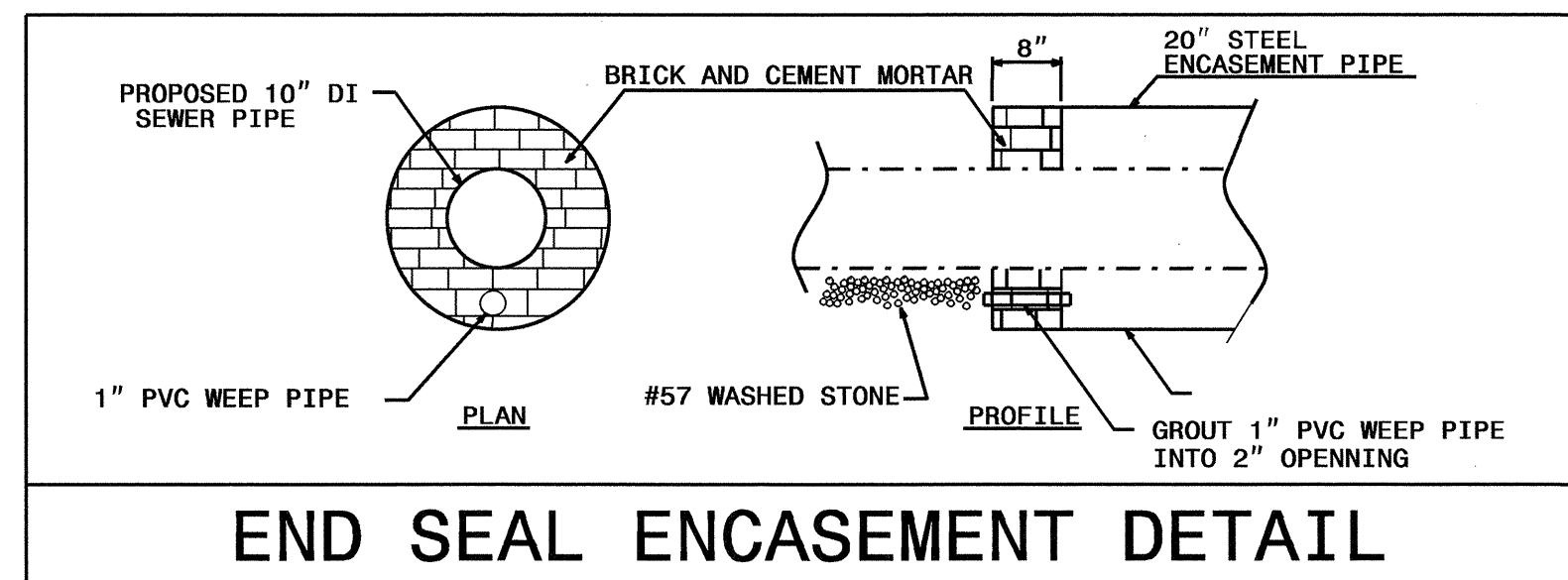
## LIST OF STANDARD DRAWINGS

- 1515.01 WATER METER
- 1515.02 FIRE HYDRANT
- 1520.01 SEWER CLEAN OUT
- 1525.06 PRECAST CONCRETE SANITARY SEWER MANHOLE WITH CAST-IN-PLACE BOTTOM

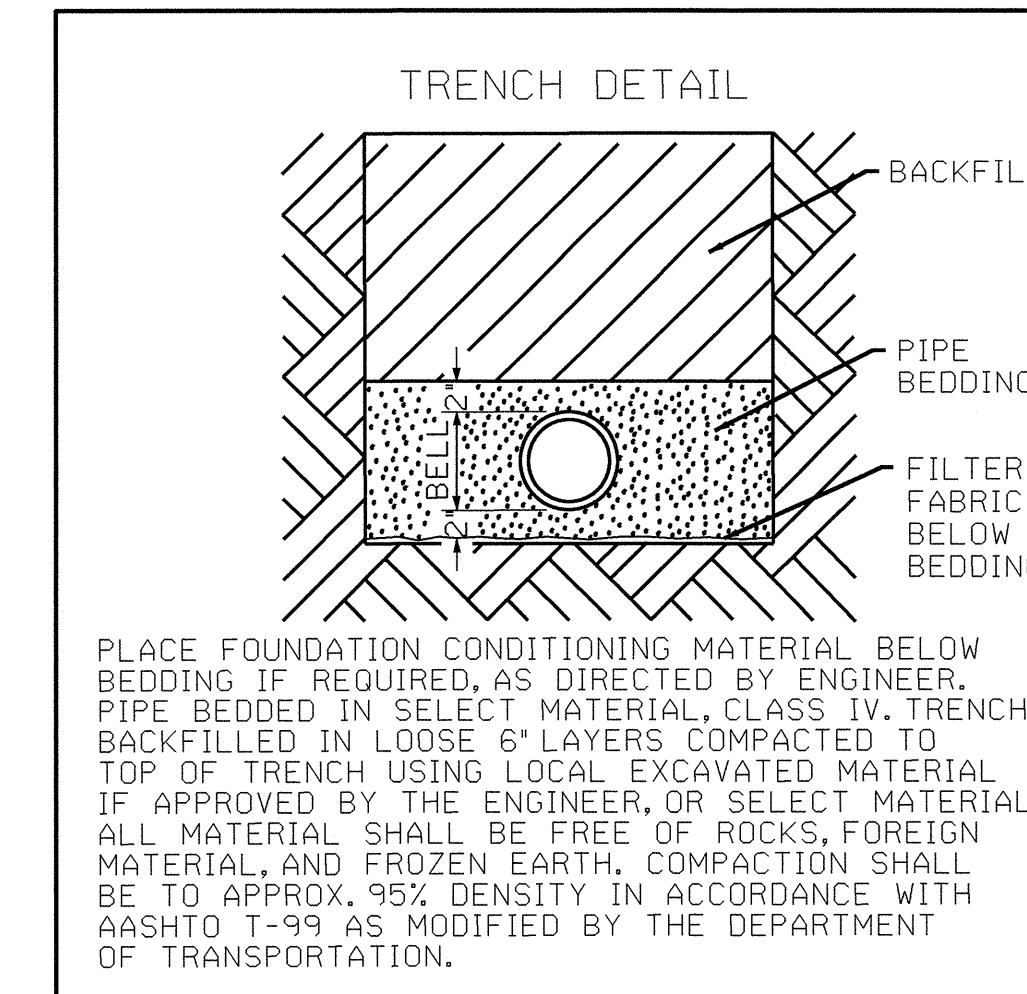
## UTILITY CONSTRUCTION



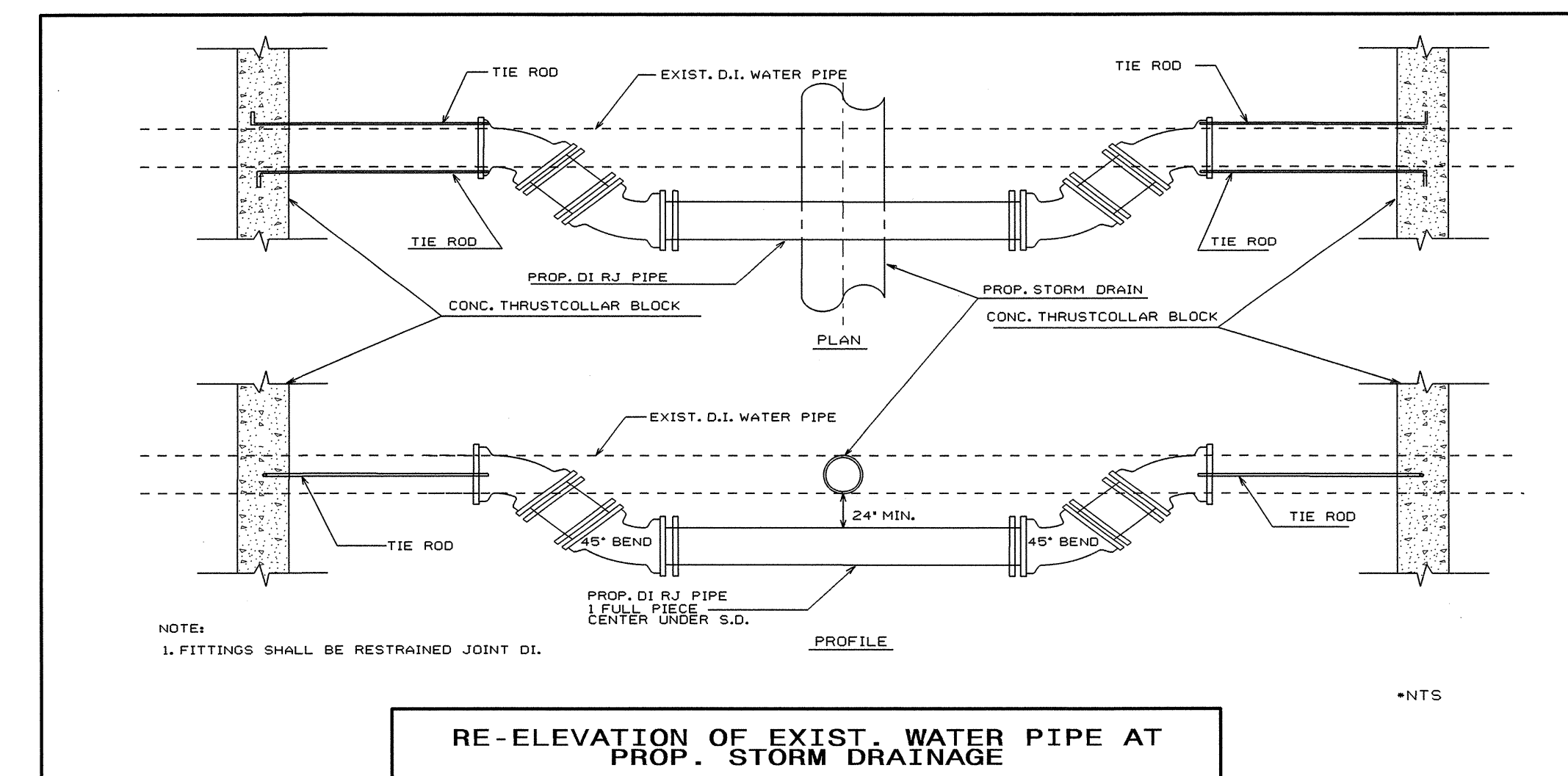
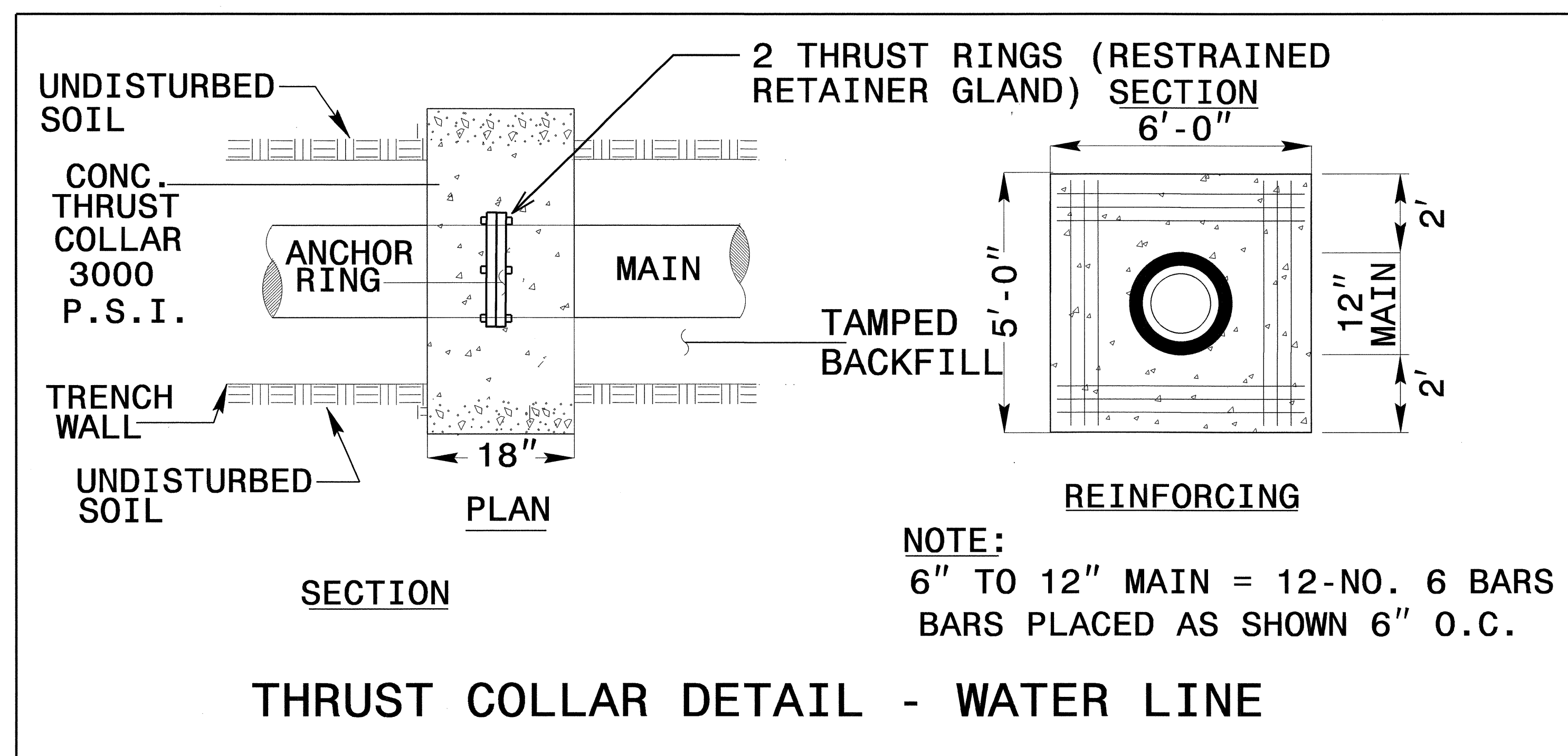
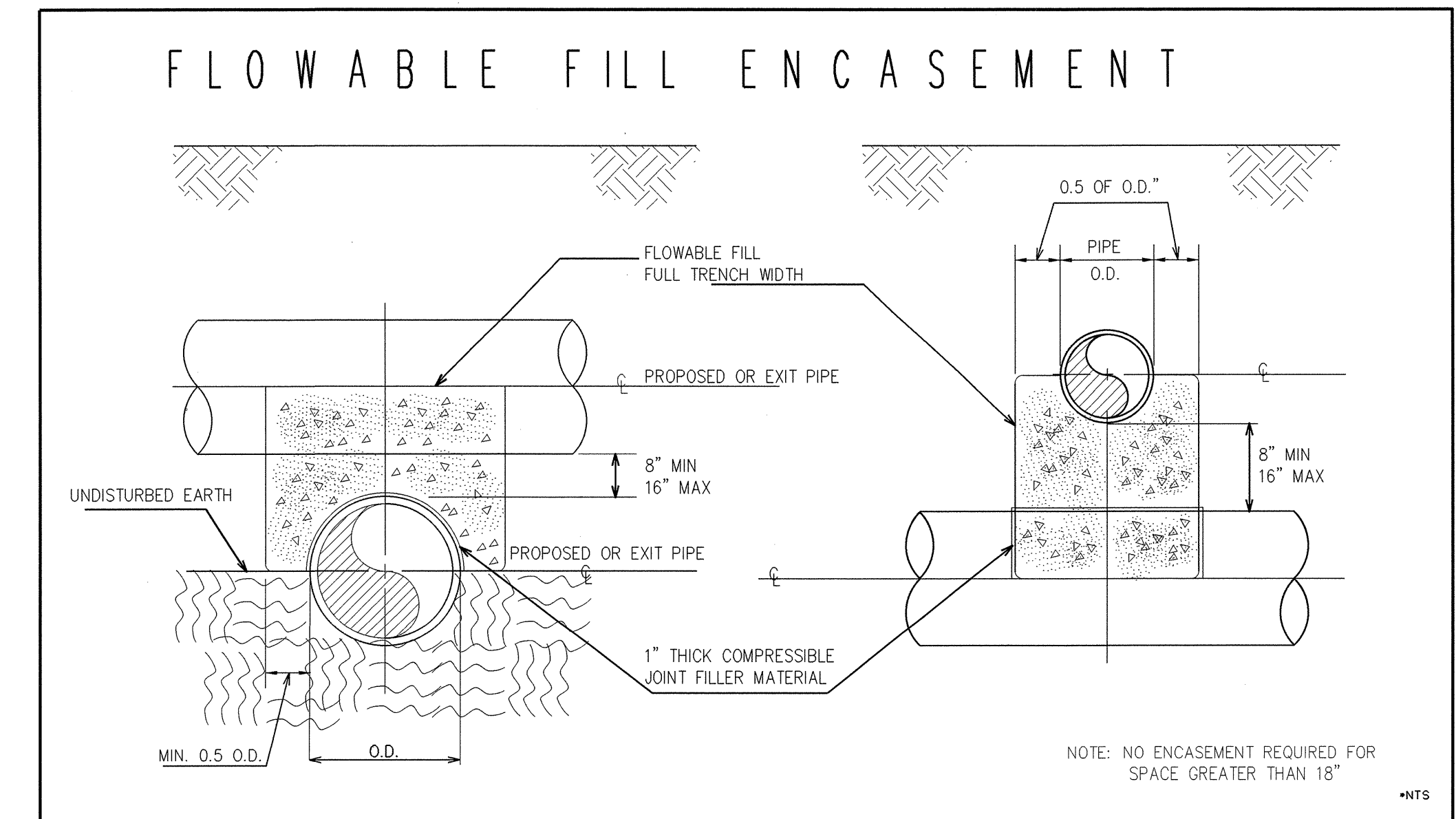
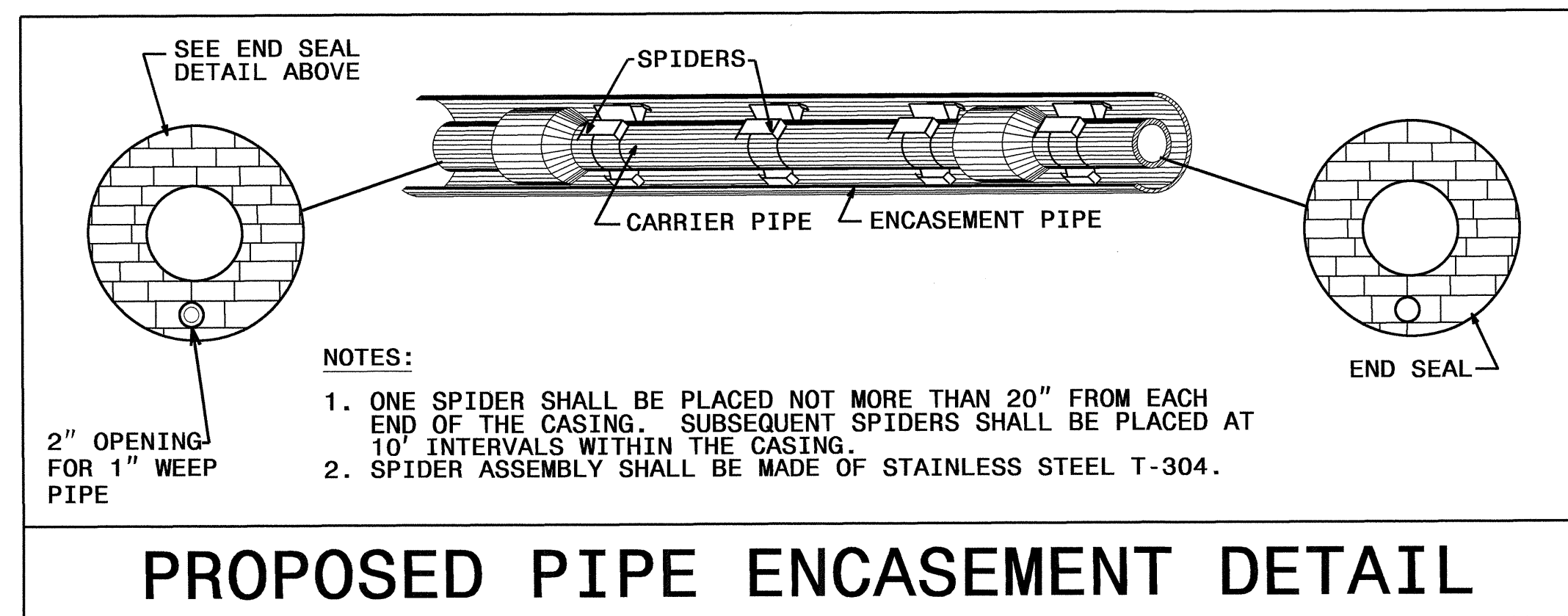
**NOTE: FOR OTHER DETAILS, SEE 2012 NC DOT ROADWAY STANDARD DRAWINGS AND CITY OF HIGH POINT STANDARD DRAWINGS.**



MAXIMUM TRENCH WIDTH AT TOP OF PIPE			
NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)	NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)
4	28	20	44
6	30	24	48
8	32	30	54
10	34	36	60
12	36	42	66
14	38	48	72
16	40	54	78
18	42		



**UTILITY CONSTRUCTION**





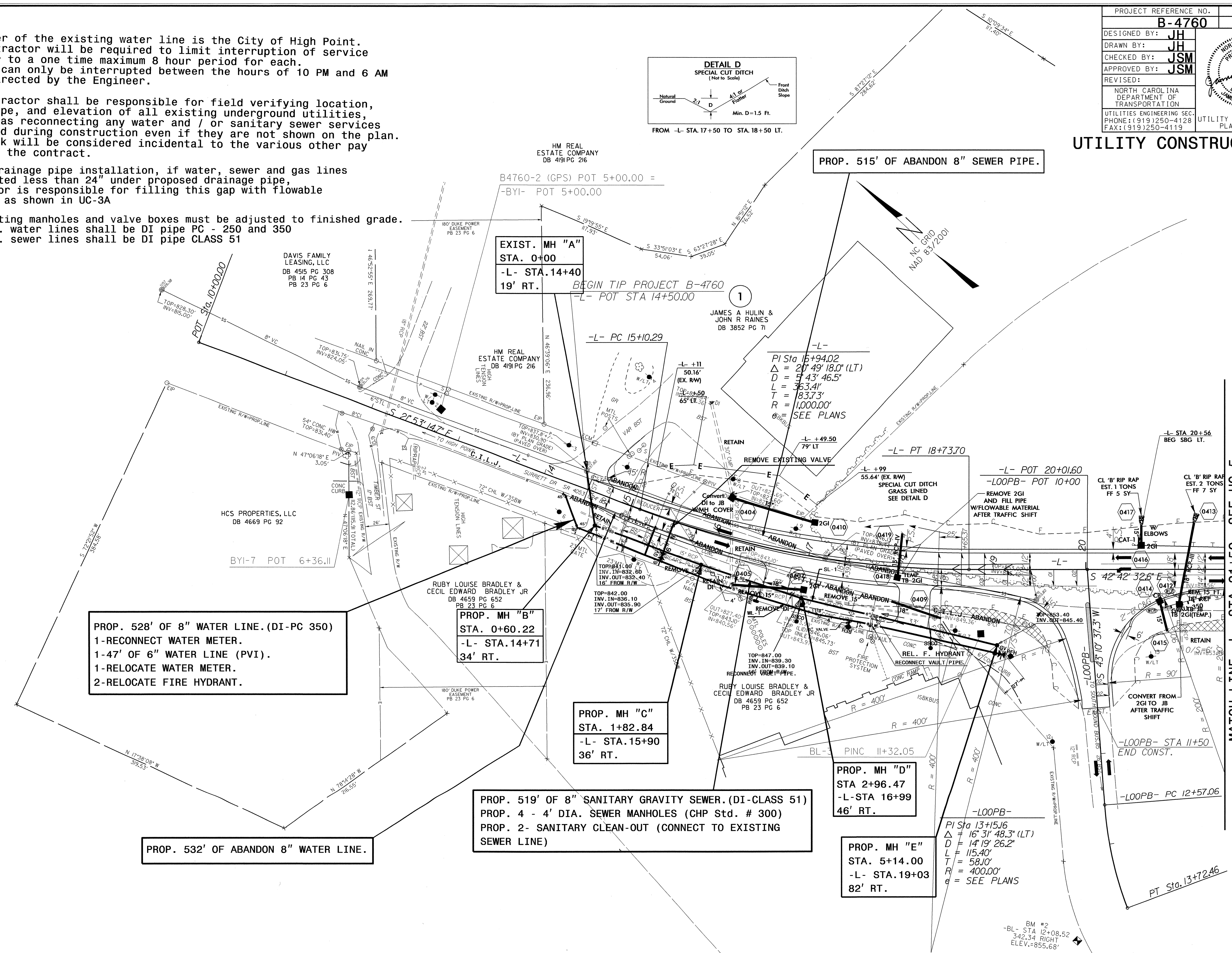
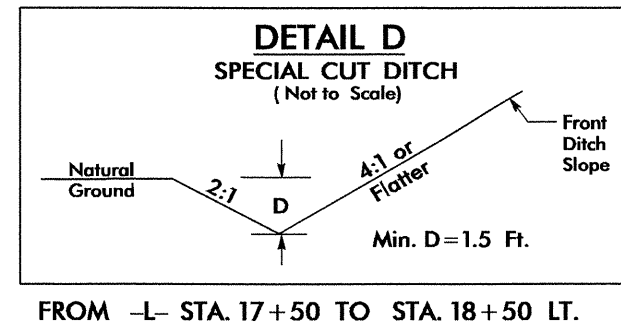
# UTILITY CONSTRUCTION

**NOTE:**  
 The Owner of the existing water line is the City of High Point.  
 The Contractor will be required to limit interruption of service to water to a one time maximum 8 hour period for each.  
 Service can only be interrupted between the hours of 10 PM and 6 AM or as directed by the Engineer.

The Contractor shall be responsible for field verifying location, size, type, and elevation of all existing underground utilities, as well as reconnecting any water and / or sanitary sewer services disturbed during construction even if they are not shown on the plan. This work will be considered incidental to the various other pay items in the contract.

During drainage pipe installation, if water, sewer and gas lines are located less than 24" under proposed drainage pipe, Contractor is responsible for filling this gap with flowable material as shown in UC-3A

All existing manholes and valve boxes must be adjusted to finished grade.  
 All prop. water lines shall be DI pipe PC - 250 and 350  
 All prop. sewer lines shall be DI pipe CLASS 51



**PROP. 528' OF 8" WATER LINE. (DI-PC 350)**  
 1-RECONNECT WATER METER.  
 1-47' OF 6" WATER LINE (PVI).  
 1-RELOCATE WATER METER.  
 2-RELOCATE FIRE HYDRANT.

**PROP. MH "B"**  
 STA. 0+60.22  
 -L- STA.14+71  
 34' RT.

**PROP. MH "C"**  
 STA. 1+82.84  
 -L- STA.15+90  
 36' RT.

**PROP. 519' OF 8" SANITARY GRAVITY SEWER. (DI-CLASS 51)**  
 PROP. 4 - 4' DIA. SEWER MANHOLES (CHP Std. # 300)  
 PROP. 2- SANITARY CLEAN-OUT (CONNECT TO EXISTING SEWER LINE)

**PROP. MH "D"**  
 STA 2+96.47  
 -L- STA 16+99  
 46' RT.

**PROP. MH "E"**  
 STA. 5+14.00  
 -L- STA.19+03  
 82' RT.

**PROP. 532' OF ABANDON 8" WATER LINE.**

**PROP. 515' OF ABANDON 8" SEWER PIPE.**

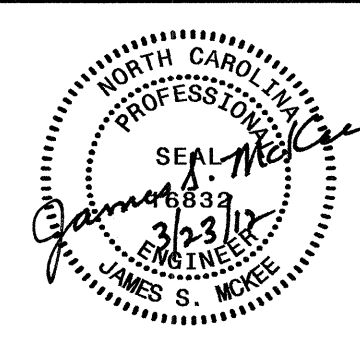
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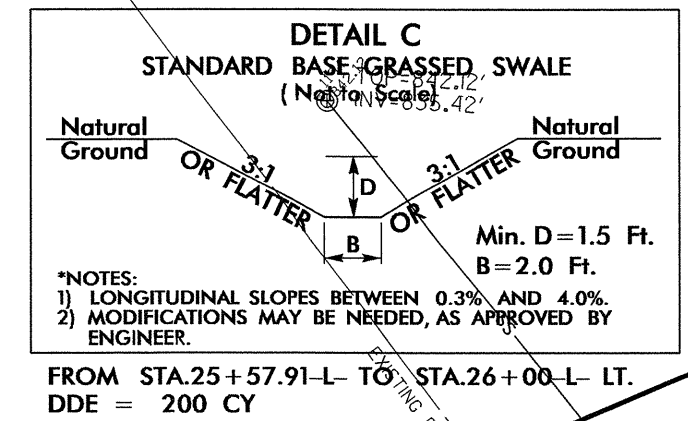
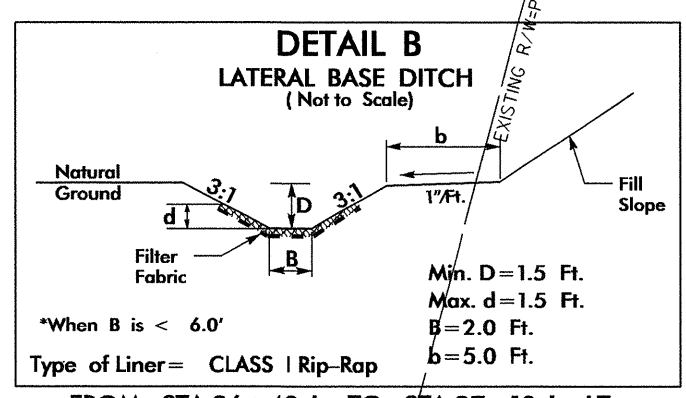
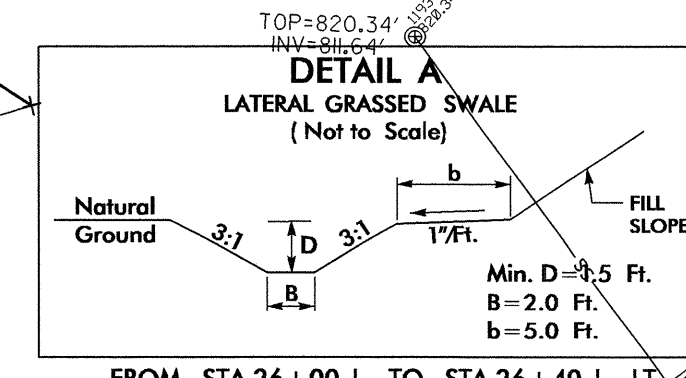
BM #2  
 -BL- STA 12+08.52  
 342.34 RIGHT  
 ELEV.=855.68'



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PROJECT REFERENCE NO.	SHEET NO.
B-4760	UC-5
DESIGNED BY: JH	
DRAWN BY: JH	
CHECKED BY: JSM	
APPROVED BY: JSM	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

# UTILITY CONSTRUCTION



PROP. 448' OF 10" SANITARY GRAVITY SEWER (DI-CLASS 51)  
3-4' MANHOLES. (CHP STD # 300)  
120' TRENCHLESS INSTALLATION OF 20" IN SOIL.  
120' TRENCHLESS INSTALLATION OF 20" NOT IN SOIL.  
325' OF 20" STEEL ENCASUREMENT.

PROP. 452' OF ABANDON 10" SEWER PIPE.

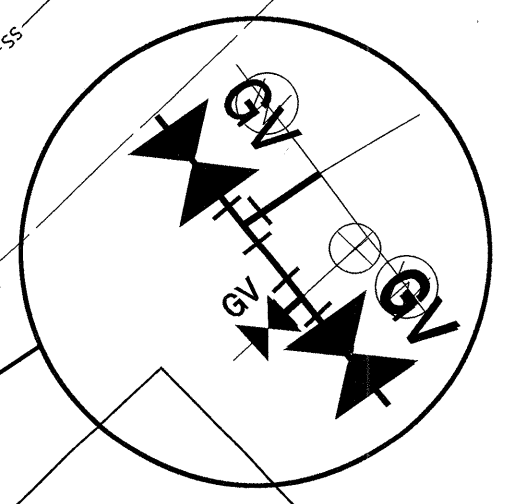
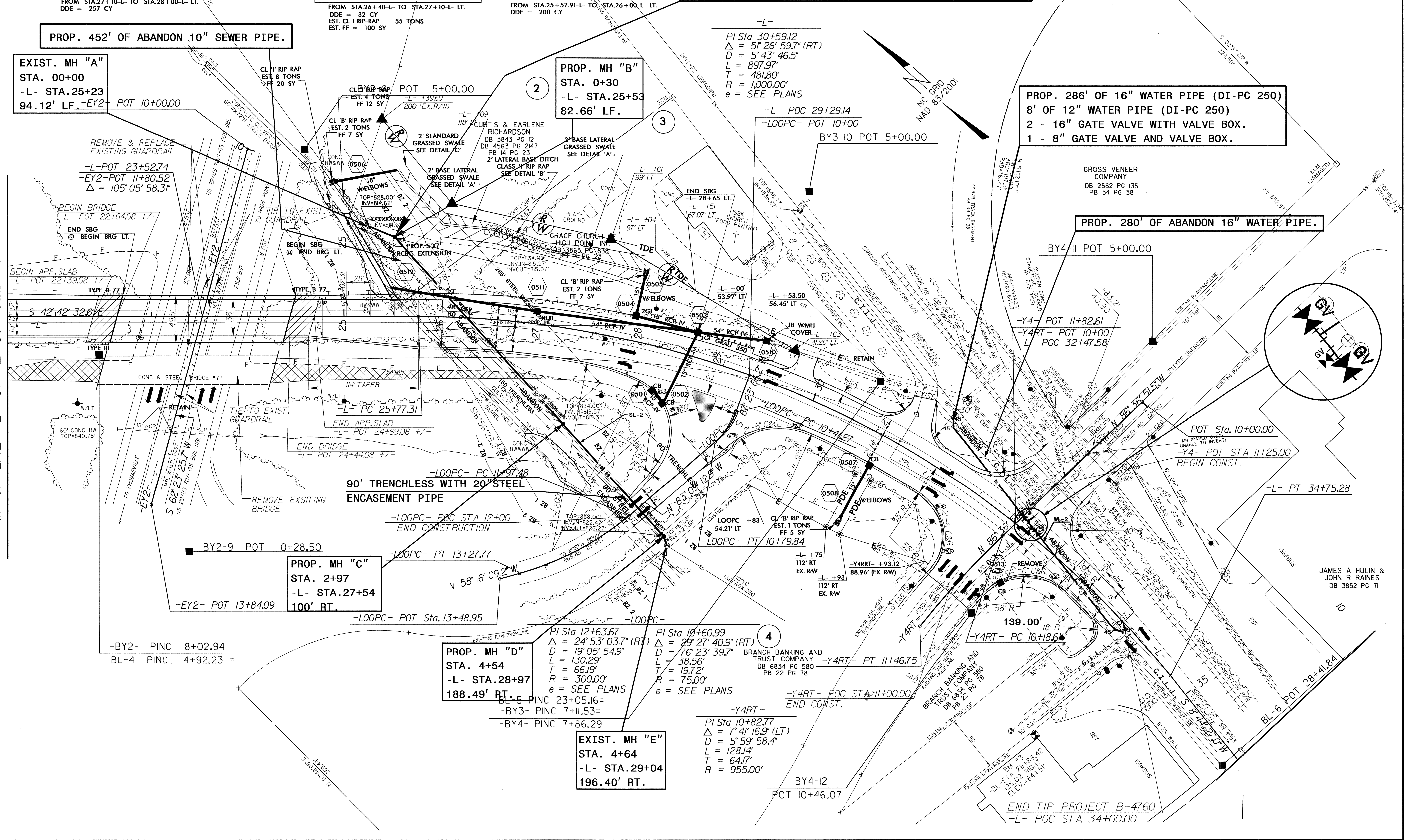
EXIST. MH "A"  
STA. 00+00  
-L- STA.25+23  
94.12' LF. -EY2- POT 10+00.00

PROP. MH "B"  
STA. 0+30  
-L- STA.25+53  
82.66' LF.

PROP. 286' OF 16" WATER PIPE (DI-PC 250)  
8' OF 12" WATER PIPE (DI-PC 250)  
2 - 16" GATE VALVE WITH VALVE BOX.  
1 - 8" GATE VALVE AND VALVE BOX.

PROP. 280' OF ABANDON 16" WATER PIPE.

MATCH LINE -L- STA 21+50 SEE UC-4



JAMES A. HULIN &  
JOHN R. RAINES  
DB 3852 PG 71

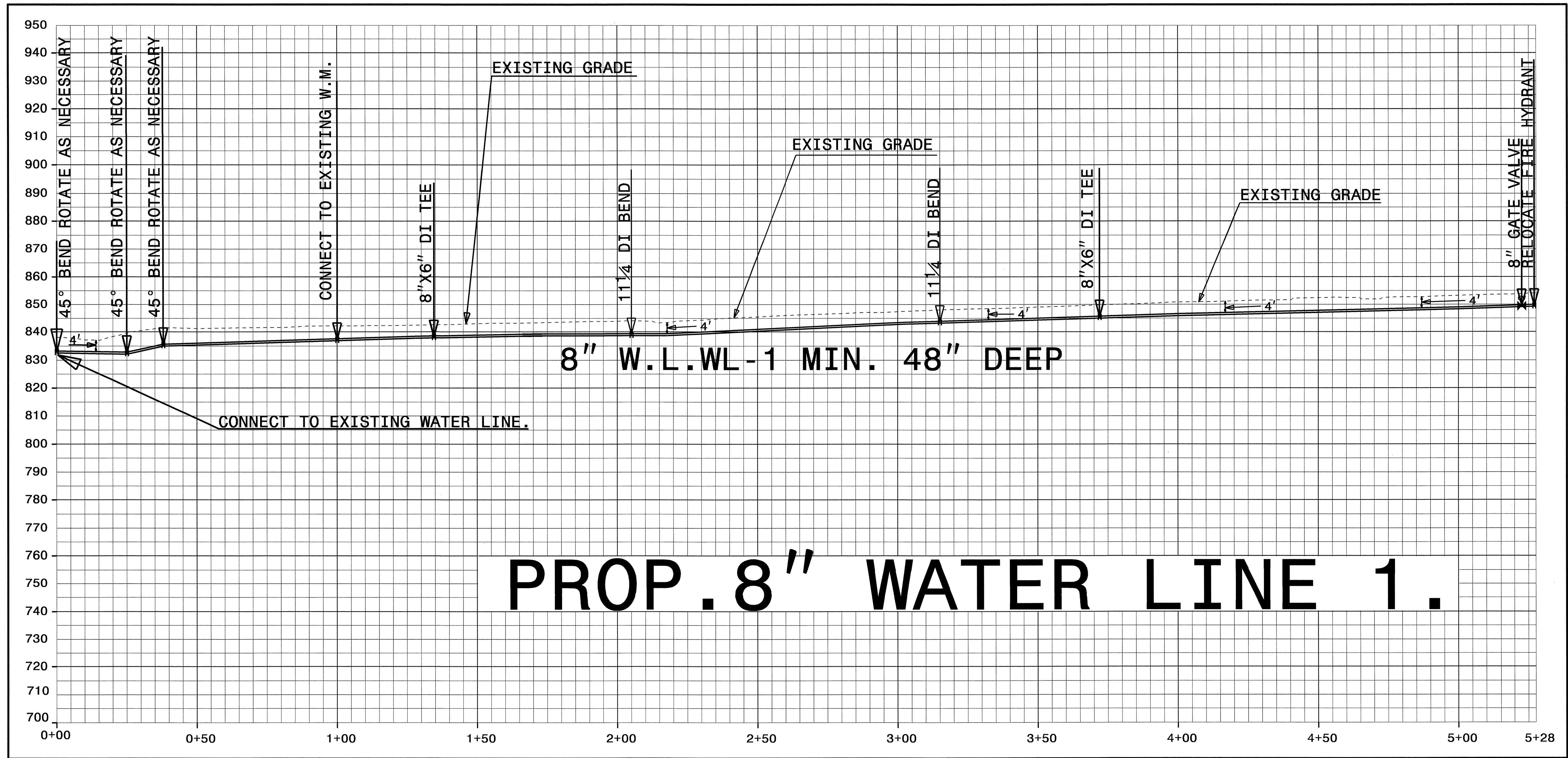
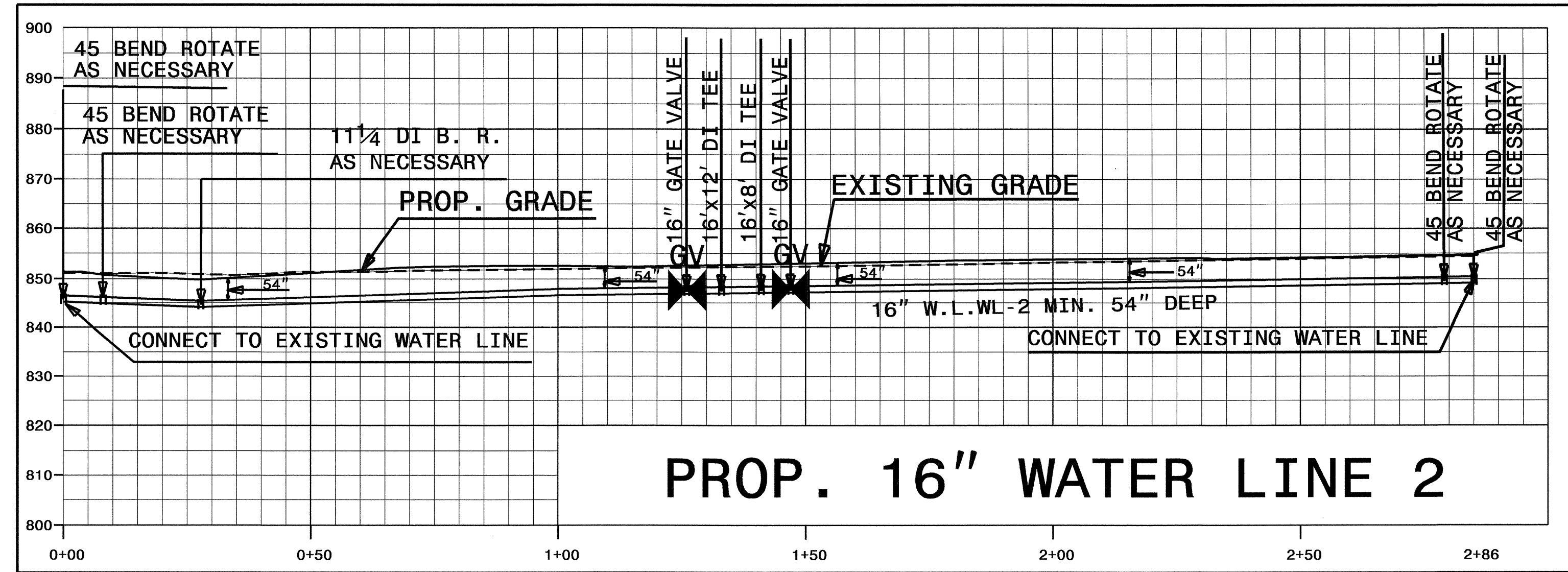


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PROJECT REFERENCE NO.	SHEET NO.
B-4760	UC-6
DESIGNED BY: JH	
DRAWN BY: JH	
CHECKED BY: JSM	
APPROVED BY: JSM	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

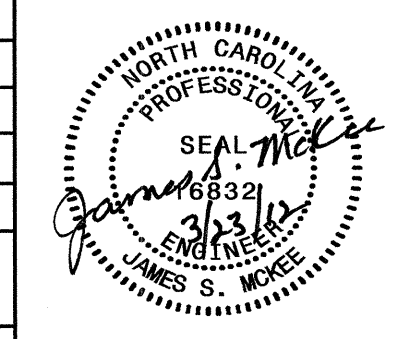
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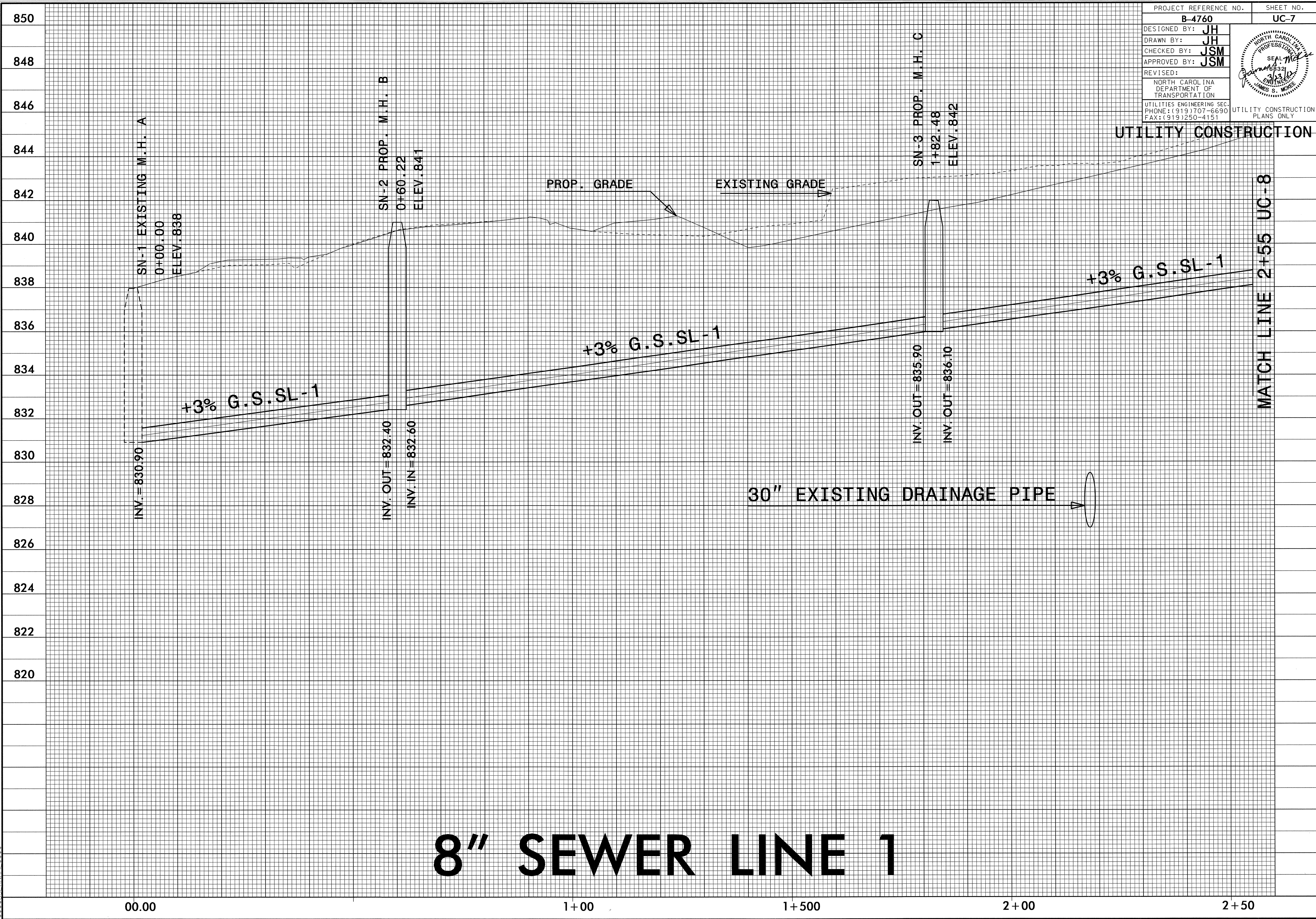




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PROJECT REFERENCE NO.	SHEET NO.
B-4760	UC-7
DESIGNED BY: JH	
DRAWN BY: JH	
CHECKED BY: JSM	
APPROVED BY: JSM	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	





5/14/99

PROJECT REFERENCE NO. SHEET NO.

B-4760

UC-8

DESIGNED BY: JH

DRAWN BY: JH

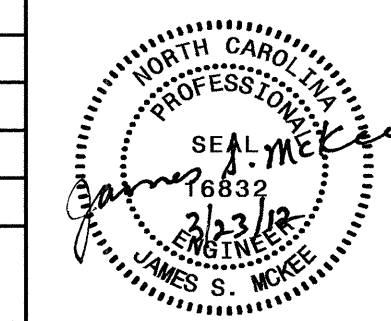
CHECKED BY: JSM

APPROVED BY: JSM

REVISED:

NORTH CAROLINA  
DEPARTMENT OF  
TRANSPORTATION

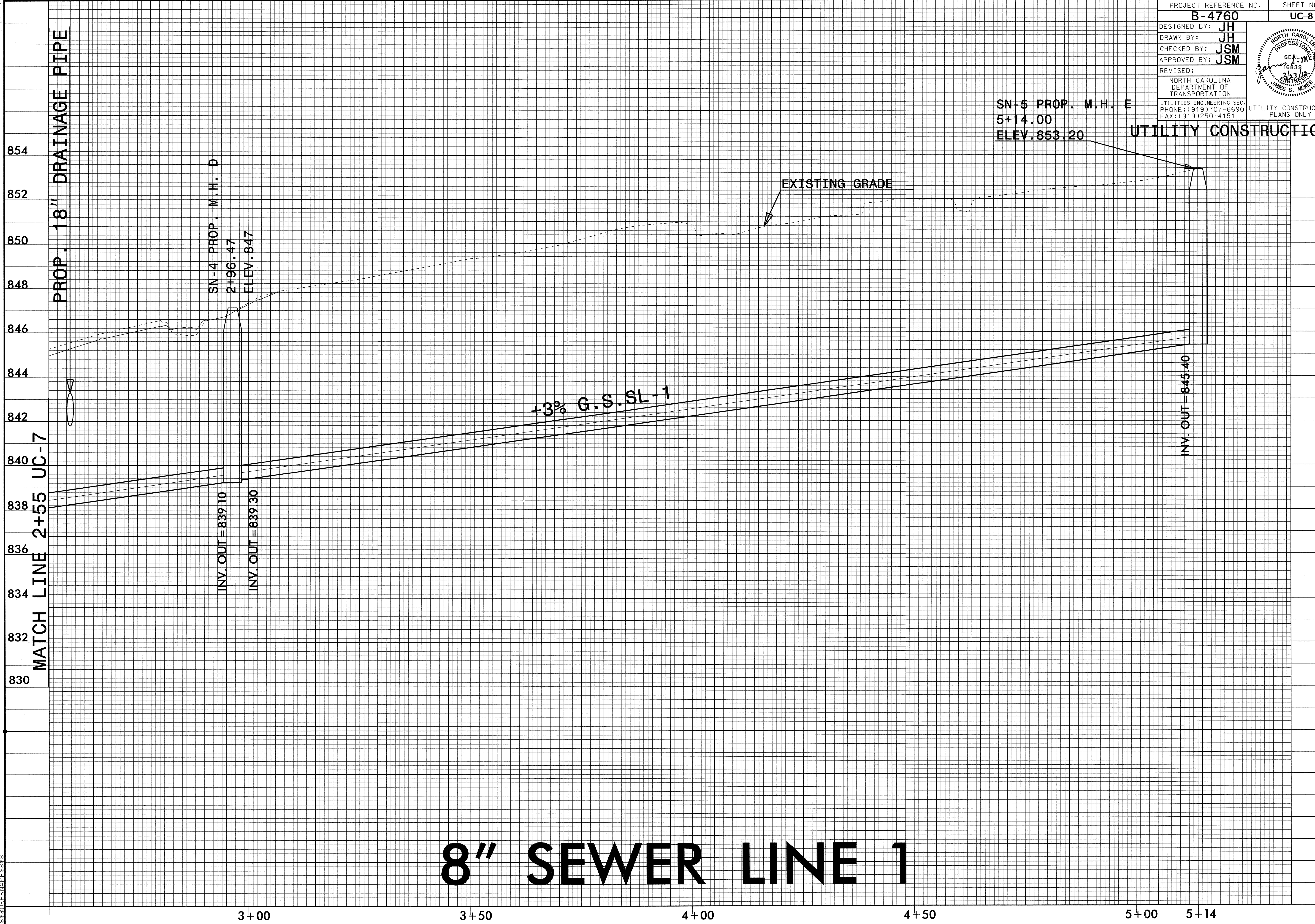
UTILITIES ENGINEERING SEC.  
PHONE: (919) 707-6690  
FAX: (919) 250-4151



UTILITY CONSTRUCTION  
PLANS ONLY

SN-5 PROP. M.H. E  
5+14.00  
ELEV. 853.20

UTILITY CONSTRUCTION



PROP. 18" DRAINAGE PIPE

MATCH LINE 2+55 UC-7

SN-4 PROP. M.H. D  
2+96.47  
ELEV. 847

INV. OUT = 839.10

INV. OUT = 839.30

+3% G.S.SL-1

EXISTING GRADE

INV. OUT = 845.40

# 8" SEWER LINE 1

3+00

3+50

4+00

4+50

5+00

5+14

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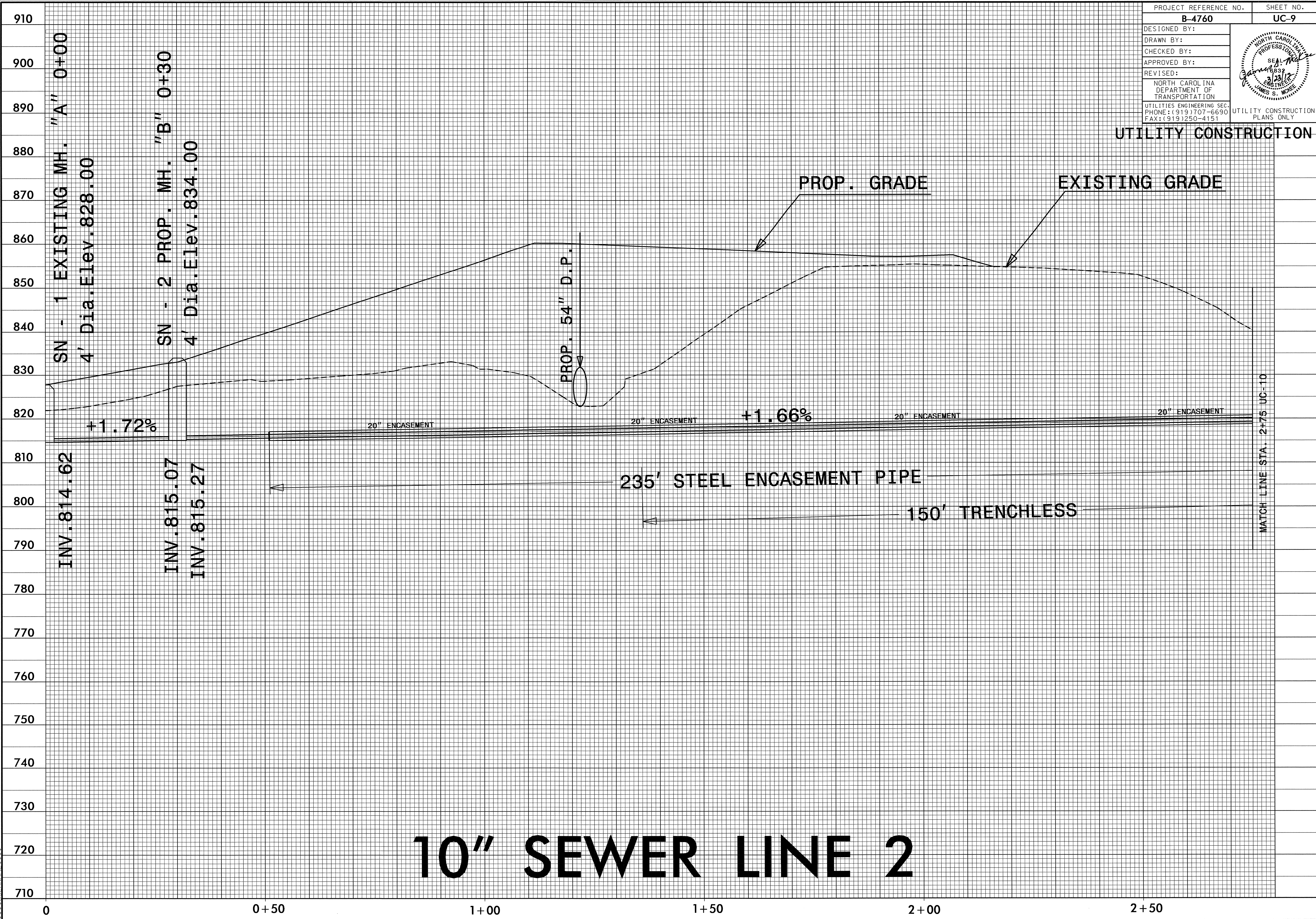


5/14/99

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PROJECT REFERENCE NO. <b>B-4760</b>	SHEET NO. <b>UC-9</b>
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	
REVISD:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

### UTILITY CONSTRUCTION

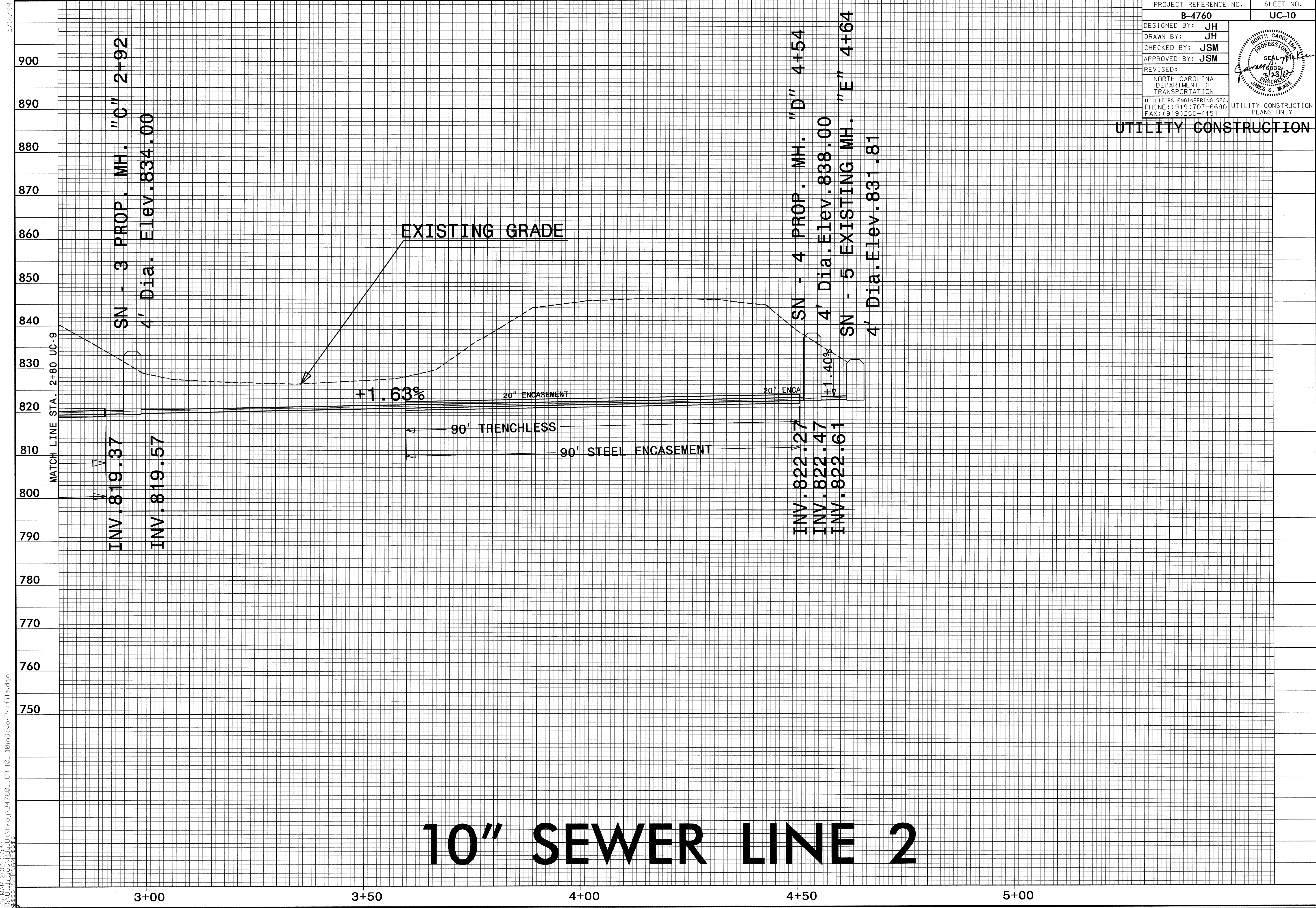


# 10" SEWER LINE 2



5/14/99

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PROJECT REFERENCE NO.	SHEET NO.
B-4760	UC-10
DESIGNED BY: JH	
DRAWN BY: JH	
CHECKED BY: JSM	
APPROVED BY: JSM	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

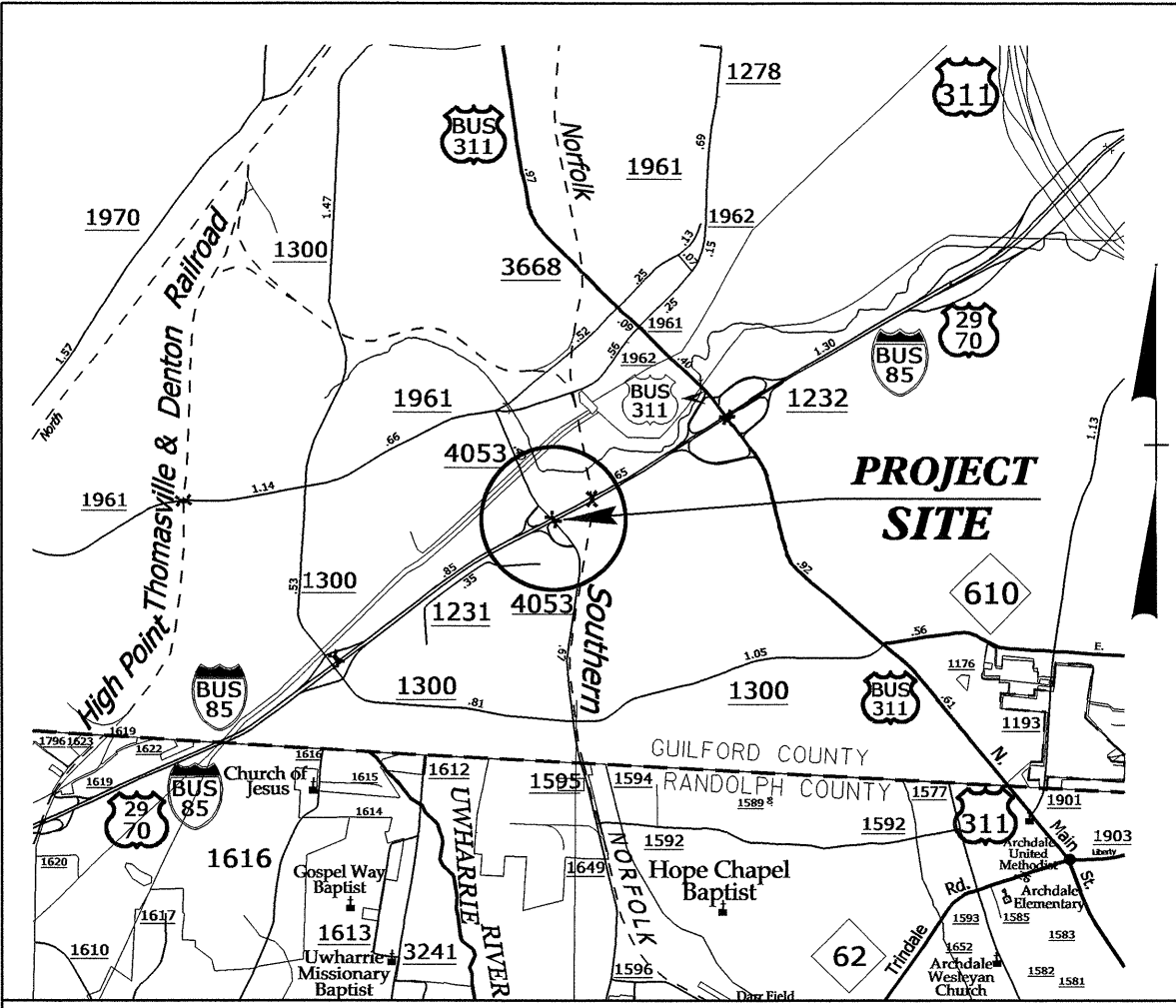
# 10" SEWER LINE 2



09/08/99

T.I.P. NO.	SHEET NO.
B-4760	UO-1

TIP PROJECT: B-4760



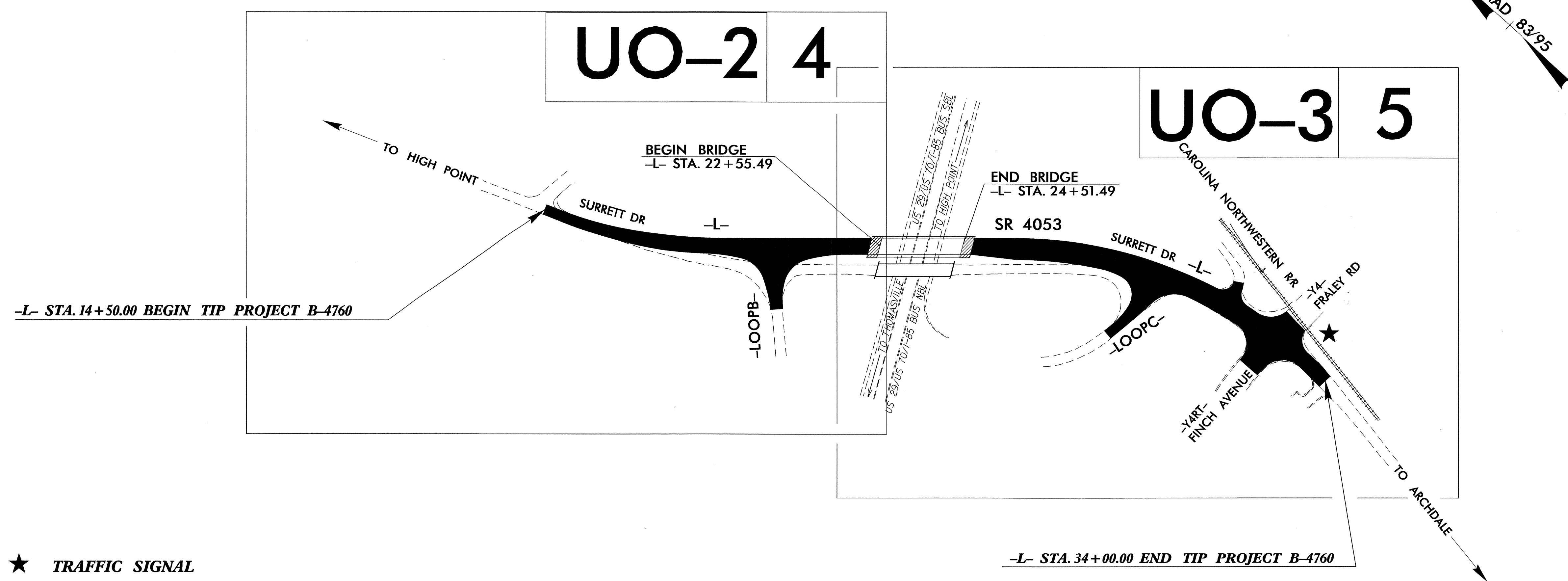
VICINITY MAP

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

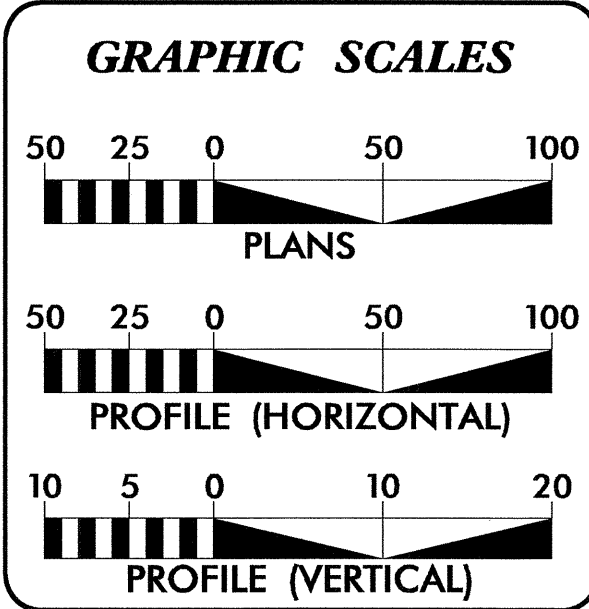
**UTILITIES BY OTHERS PLANS  
GUILFORD COUNTY**

LOCATION: REPLACEMENT OF BRIDGE 77 ON SR 4053  
OVER US 29 /US 70 /I-85 BUS

TYPE OF WORK: UTILITIES



★ TRAFFIC SIGNAL



INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2 THRU UO-3	UTILITY BY OTHERS PLAN SHEETS

UTILITY OWNERS ON PROJECT	
(1)	POWER - City of High Point
(2)	TELEPHONE - North State Communications
(3)	CATV - North State Communications

PREPARED IN THE OFFICE OF:  
**DIVISION OF HIGHWAYS  
UTILITIES UNIT  
UTILITIES ENGINEERING**

1555 MAIL SERVICES CENTER  
RALEIGH NC 27699-1555  
PHONE (919) 707-6690  
FAX (919) 250-4151

**Roger Worthington, P.E.** UTILITIES SECTION ENGINEER  
**Steve McKee, P.E.** UTILITIES SQUAD LEADER PROJECT ENGINEER  
**Jamshid Hafshejani** UTILITIES PROJECT DESIGNER

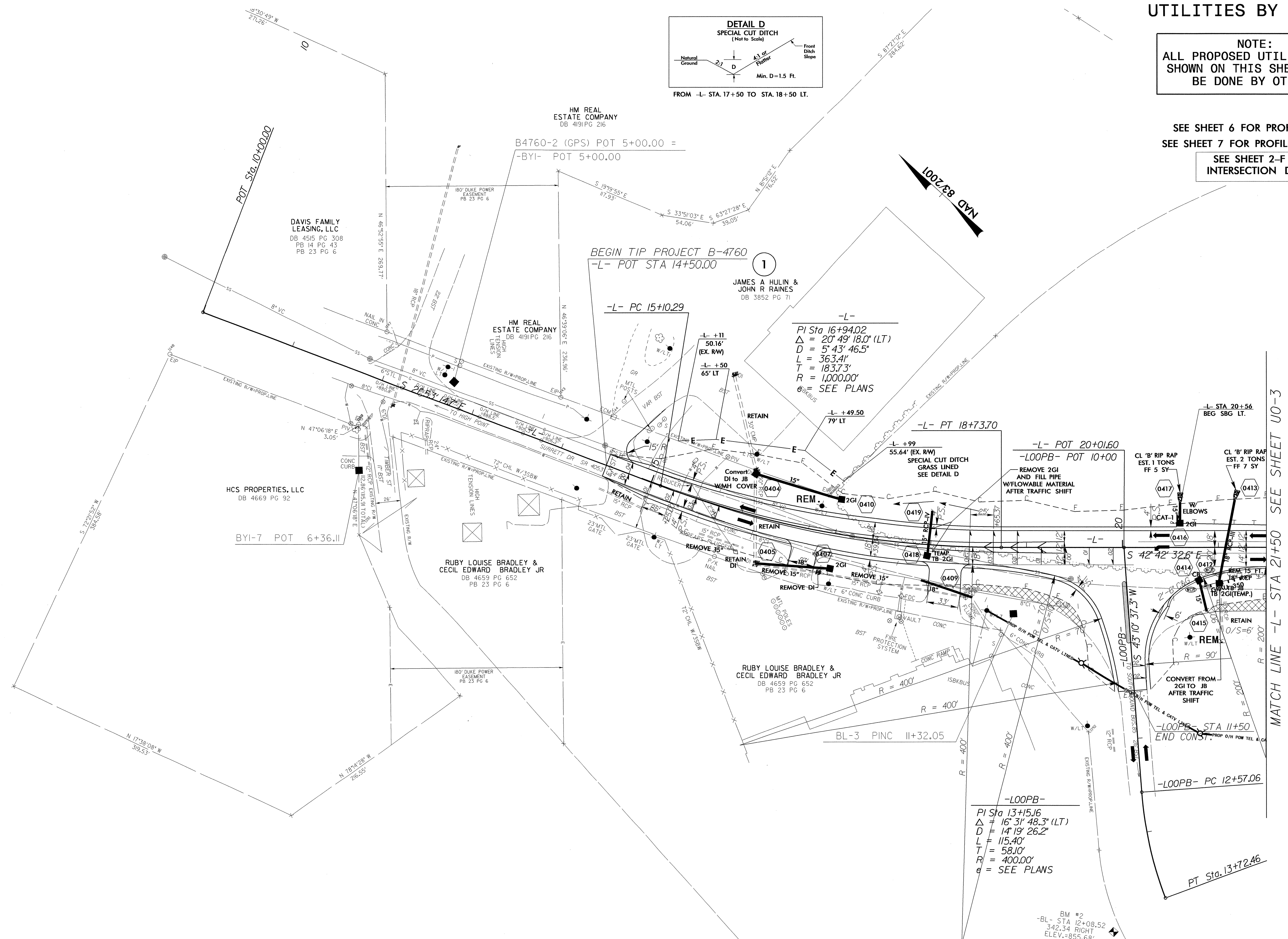
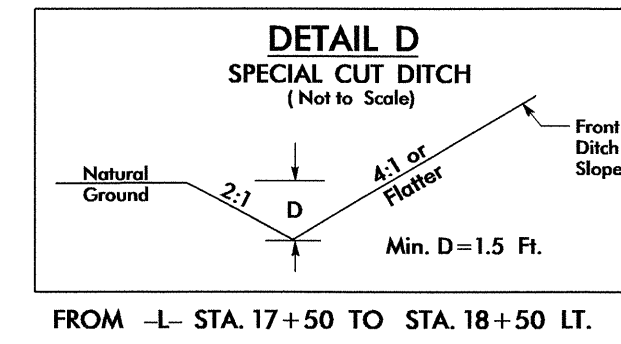
I4-MAP-2012-13-25  
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\$\$\$\$\$USER\$NAME\$\$\$\$\$

### UTILITIES BY OTHERS

**NOTE:**  
ALL PROPOSED UTILITY WORK  
SHOWN ON THIS SHEET WILL  
BE DONE BY OTHERS

SEE SHEET 6 FOR PROFILE OF -L-  
SEE SHEET 7 FOR PROFILE OF -LOOPB-

SEE SHEET 2-F FOR  
INTERSECTION DETAIL



MATCH LINE -L- STA 21+50 SEE SHEET U0-3

5/14/99  
14-MAR-2012 13:27  
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\$\$\$\$\$USERNAME\$\$\$\$\$

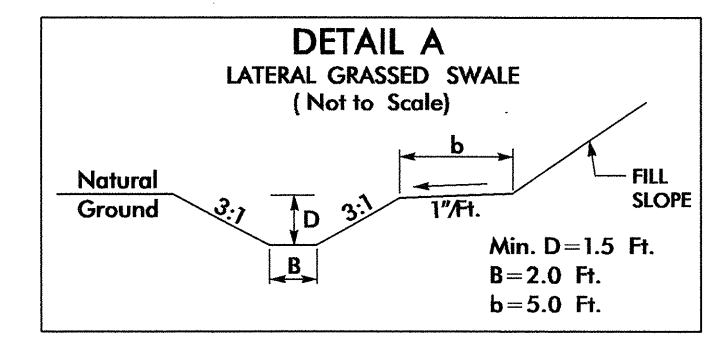
BM #2  
-BL- STA 12+08.52  
342.34 RIGHT  
ELEV.=855.68'



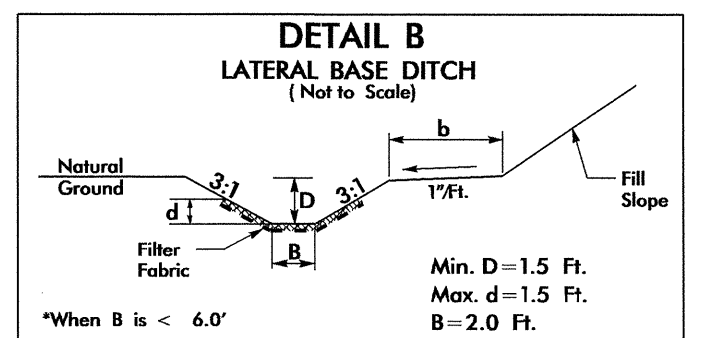
UTILITIES BY OTHERS

NOTE:  
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS

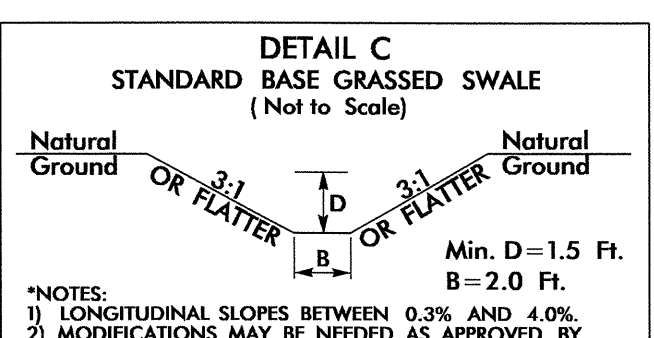
SEE SHEET S-1 THRU S-2 FOR STRUCTURE PLANS  
SEE SHEET 2-G FOR INTERSECTION DETAIL  
SEE SHEET 6 FOR PROFILE OF -L-  
SEE SHEET 7 FOR PROFILES OF -LOOPC-, -Y4- & -Y4RT-



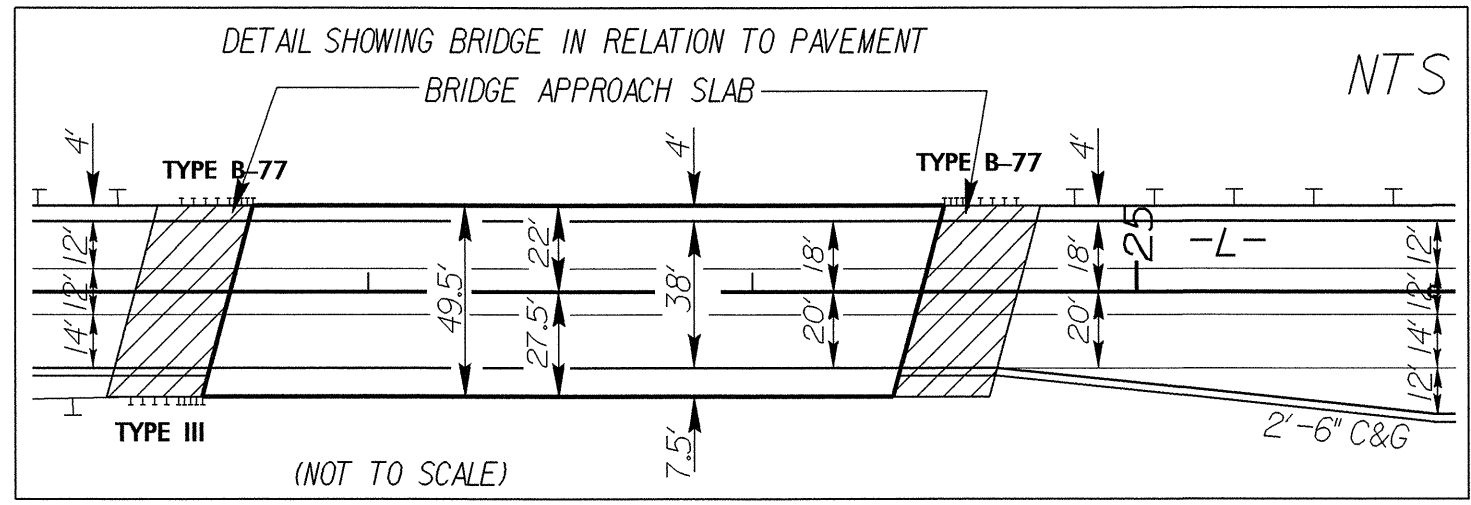
FROM STA.26+00-L- TO STA.26+40-L- LT.  
FROM STA.27+10-L- TO STA.28+00-L- LT.  
DDE = 257 CY



FROM STA.26+40-L- TO STA.27+10-L- LT.  
DDE = 32 CY  
EST. CL I RIP-RAP = 55 TONS  
EST. FF = 100 SY

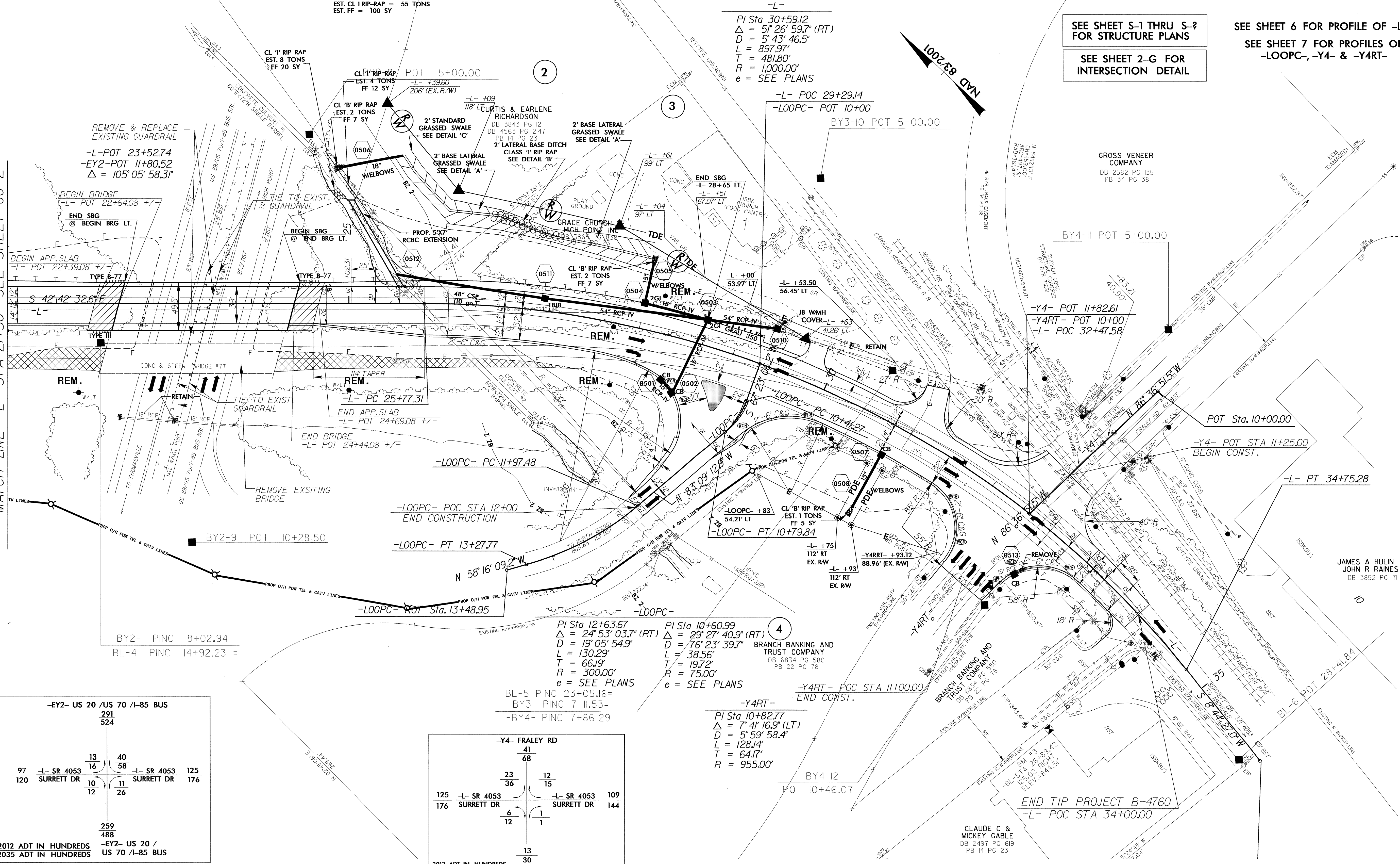


FROM STA.25+57.91-L- TO STA.26+00-L- LT.  
DDE = 200 CY

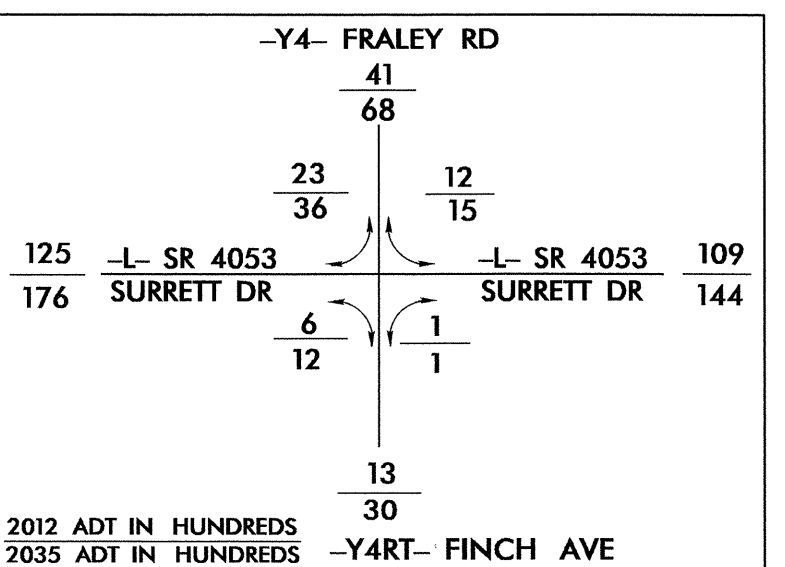
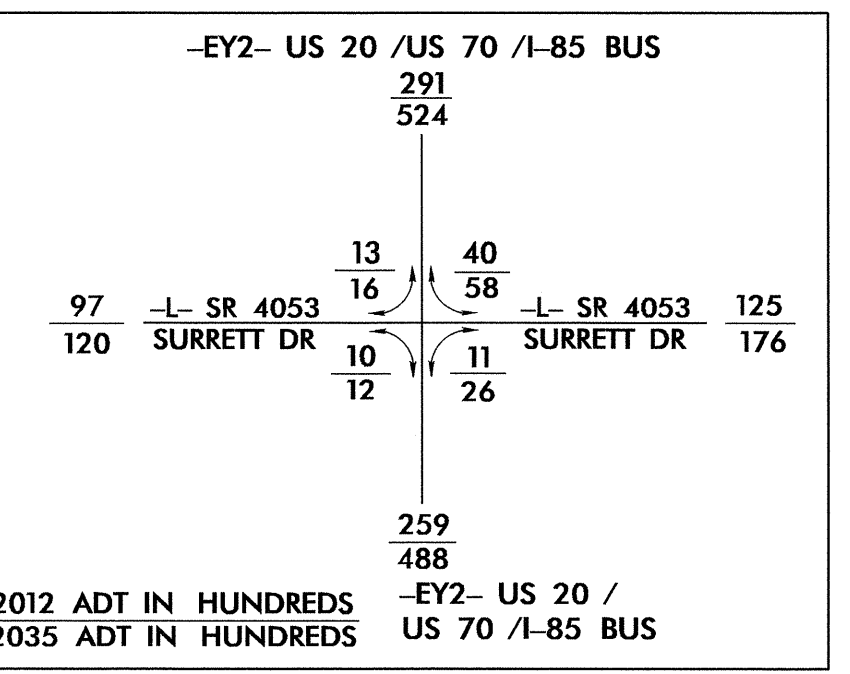


PI Sta 30+59.12  
 $\Delta = 51^\circ 26' 59.7'' (RT)$   
 $D = 5^\circ 43' 46.5''$   
 $L = 897.97'$   
 $T = 481.80'$   
 $R = 1,000.00'$   
 $e = \text{SEE PLANS}$

MATCH LINE -L- STA 21+50 SEE SHEET UO-2



REMOVE & REPLACE EXISTING GUARDRAIL  
-L- POT 23+52.74  
-EY2- POT 11+80.52  
 $\Delta = 105^\circ 05' 58.3''$



PI Sta 12+63.67  
 $\Delta = 24^\circ 53' 03.7'' (RT)$   
 $D = 19^\circ 05' 54.9''$   
 $L = 130.29'$   
 $T = 66.19'$   
 $R = 300.00'$   
 $e = \text{SEE PLANS}$

PI Sta 10+60.99  
 $\Delta = 29^\circ 27' 40.9'' (RT)$   
 $D = 76^\circ 23' 39.7''$   
 $L = 38.56'$   
 $T = 19.72'$   
 $R = 75.00'$   
 $e = \text{SEE PLANS}$

-Y4RT-  
PI Sta 10+82.77  
 $\Delta = 7^\circ 41' 16.9'' (LT)$   
 $D = 5^\circ 59' 58.4''$   
 $L = 128.14'$   
 $T = 64.17'$   
 $R = 955.00'$

CLAUDE C. & MICKY GABLE  
DB 2497 PG 619  
PB 14 PG 23

5/14/99  
14-MAR-2012 13:28  
R:\Utilities\B4760\_UO3\_psh05.dgn