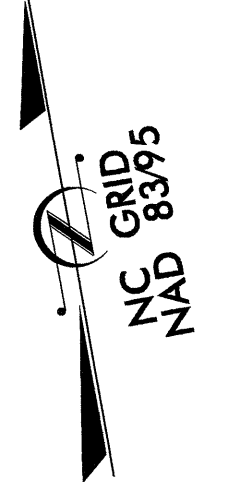


05/08/99

T.I.P. NO.	SHEET NO.
U-4438	UC-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

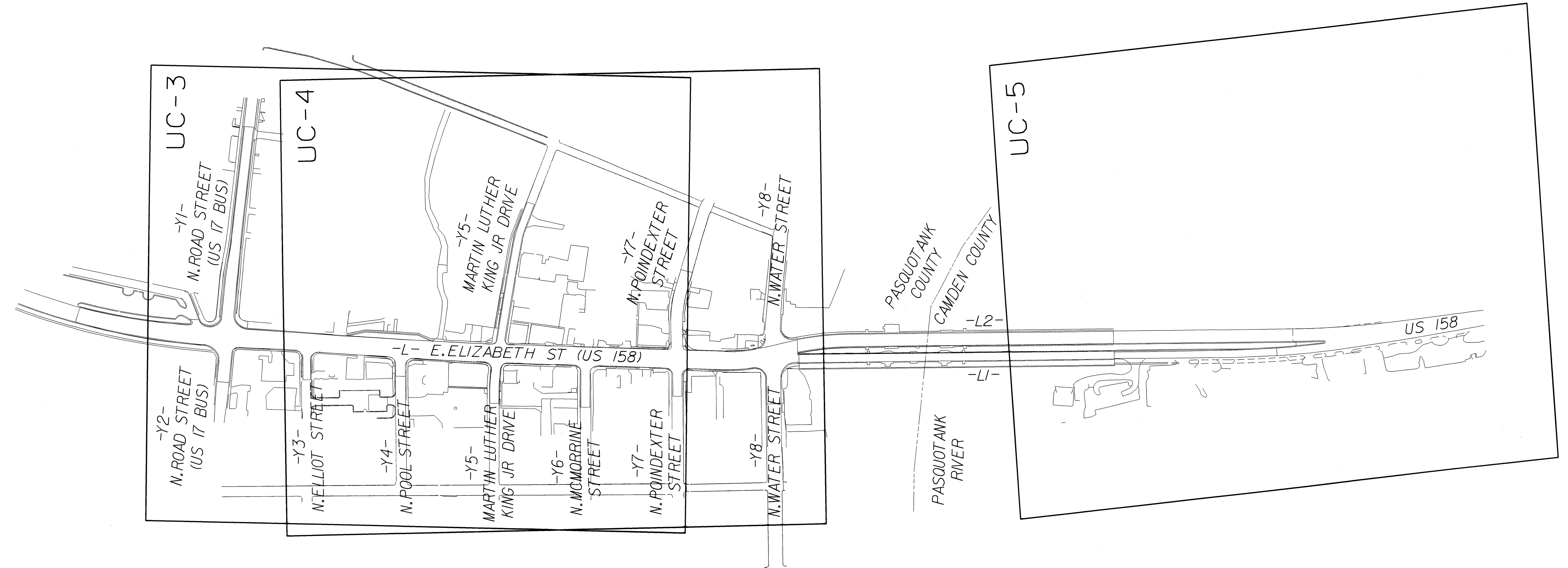
**UTILITY CONSTRUCTION PLANS
PASQUOTANK AND CAMDEN COUNTY**



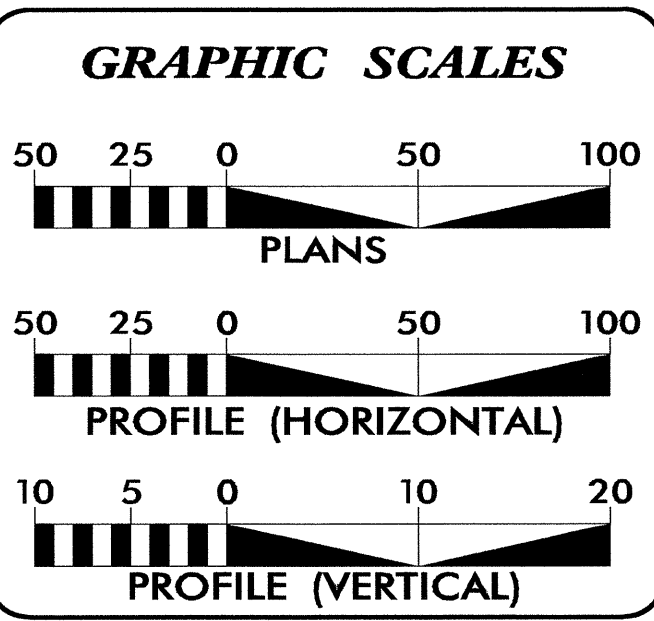
LOCATION: US-158 IN ELIZABETH CITY

TYPE OF WORK: WATER AND SEWER RELOCATIONS

TIP PROJECT: U-4438



20-JAN-2011 4:00 P: \\utilities\rdy-ut\proj\U4438_title_sheet.dgn \$\$\$USERNAME\$\$\$

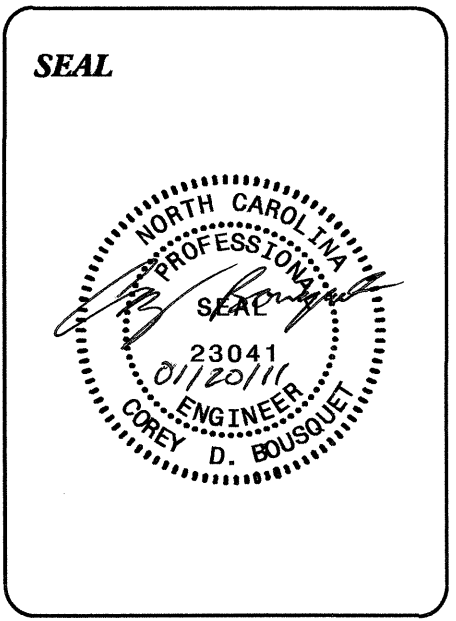



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2	GENERAL NOTES
UC-3 THRU UC-5	PLANS
UC-6 THRU UC-8	PAY ITEMS
UC-9	PROFILE STATIONING
UC-10 THRU UC-13	PROFILES
UC-14 THRU UC-17	DETAILS
UC-18 THRU UC-19	TEMPORARY SERVICES
UC-20 THRU UC-22	TEMPORARY SERVICES CONNECTIONS

WATER AND SEWER OWNERS ON PROJECT

(1) WATER: ELIZABETH CITY
(2) SANITARY SEWER: ELIZABETH CITY

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

1591 MAIL SERVICES CENTER
RALEIGH NC 27699-1591
PHONE (919) 250-4128
FAX (919) 250-4119

Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Corey Bousquet, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
Eric Haugaard, P.E. UTILITIES PROJECT DESIGNER

NOTES TO THE CONTRACTOR

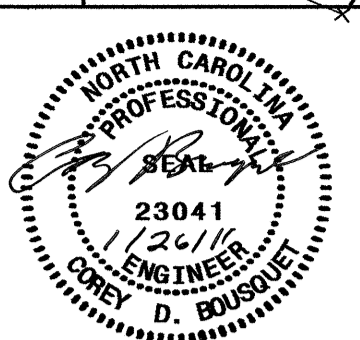
1. THE CONTRACTOR SHALL COORDINATE ALL WATER AND SEWER LINE TIE-INS WITH ELIZABETH CITY.
2. ALL VALVE OPERATIONS SHALL BE PERFORMED BY ELIZABETH CITY.
3. THE EXCAVATION AND BEDDING FOR WATER AND SEWER LINES IN THE FOAMED CONCRETE SECTIONS SHALL BE INCIDENTAL TO THE ROADWAY PAY ITEMS FOR UNDERCUT AND FOAMED CONCRETE. THE WATER AND SEWER LINES MATERIAL COST, DEWATERING, INSTALLATION AND SUPPORT IN THE FOAMED CONCRETE SECTIONS SHALL BE INCIDENTAL TO THE PROPOSED WATER OR SEWER LINE. THE EXCAVATION, DEWATERING, BEDDING AND INSTALLATION OF THE WATER AND SEWER LINES OUTSIDE FOAMED CONCRETE SECTIONS SHALL BE CONSIDERED INCIDENTAL TO THE PROPOSED WATER OR SEWER LINE. THERE WILL BE A SEPARATE PAY ITEM FOR FOUNDATION CONDITIONING MATERIAL AS REQUIRED UNDER THE WATER AND SEWER LINES.
4. ALL WATER AND SEWER LINES SHALL BE DUCTILE IRON RESTRAINED JOINT PIPE. A TRACER WIRE IS REQUIRED FOR ALL WATER PIPES AND FORCE MAINS. USE MANUFACTURED RESTRAINED JOINT PIPE ON THE WATER AND SEWER LINES.
5. TEMPORARY WATER AND SEWER SERVICES SHALL BE INSTALLED TO ALL CUSTOMERS AFFECTED BY THE UNDERCUT ALONG THE -Y-LINES OR ELIZABETH STREET. AFTER THE TEMPORARY SERVICES ARE INSTALLED THE UNDERCUT FOR THE FOAMED CONCRETE CAN START. THE TEMPORARY SERVICES SHALL BE PAID FOR AS TEMPORARY WATER AND SEWER SERVICE. LINESTOPS ARE INCLUDED IN THE CONTRACT FOR ISOLATING WATER LINES TO BE REMOVED WHERE AN EXISTING VALVE DOES NOT EXIST.
6. ELIZABETH CITY SHALL DETERMINE THE NUMBER OF EXISTING WATER LINES CROSSING ELIZABETH STREET THAT WILL HAVE TO REMAIN IN SERVICE AS THE NEW WATER LINES ARE BEING INSTALLED.
7. THE EXISTING 24" FORCE MAIN IN WATER STREET MUST STAY IN SERVICE UNTIL THE PROPOSED 24" FORCE MAIN IS ACTIVATED IN MLK STREET. THE EXISTING FORCE MAIN WILL BE PLUGGED USING LINESTOPS EAST OF THE INTERSECTION AT PEARL AND POINDEXTER AND NORTH OF COLONIAL ALONG WATER STREET. THE DI PLUGS SHALL BE INCIDENTAL TO THE PROPOSED 24" FORCE MAIN.
8. ALL DI FITTINGS ARE INCIDENTAL TO THE PROPOSED WATER AND FORCE MAINS.

PROJECT REFERENCE NO. U-4438	SHEET NO. UC-2
DESIGNED BY: CDB	
DRAWN BY: CDB	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919)250-4128 FAX: (919)250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

5/14/99

WATER AND SEWER PLAN SHEET UC-4

PROJECT REFERENCE NO. U-4438	SHEET NO. UC-4
DESIGNED BY: EWH	
DRAWN BY: EWH	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919)250-4128 FAX: (919)250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

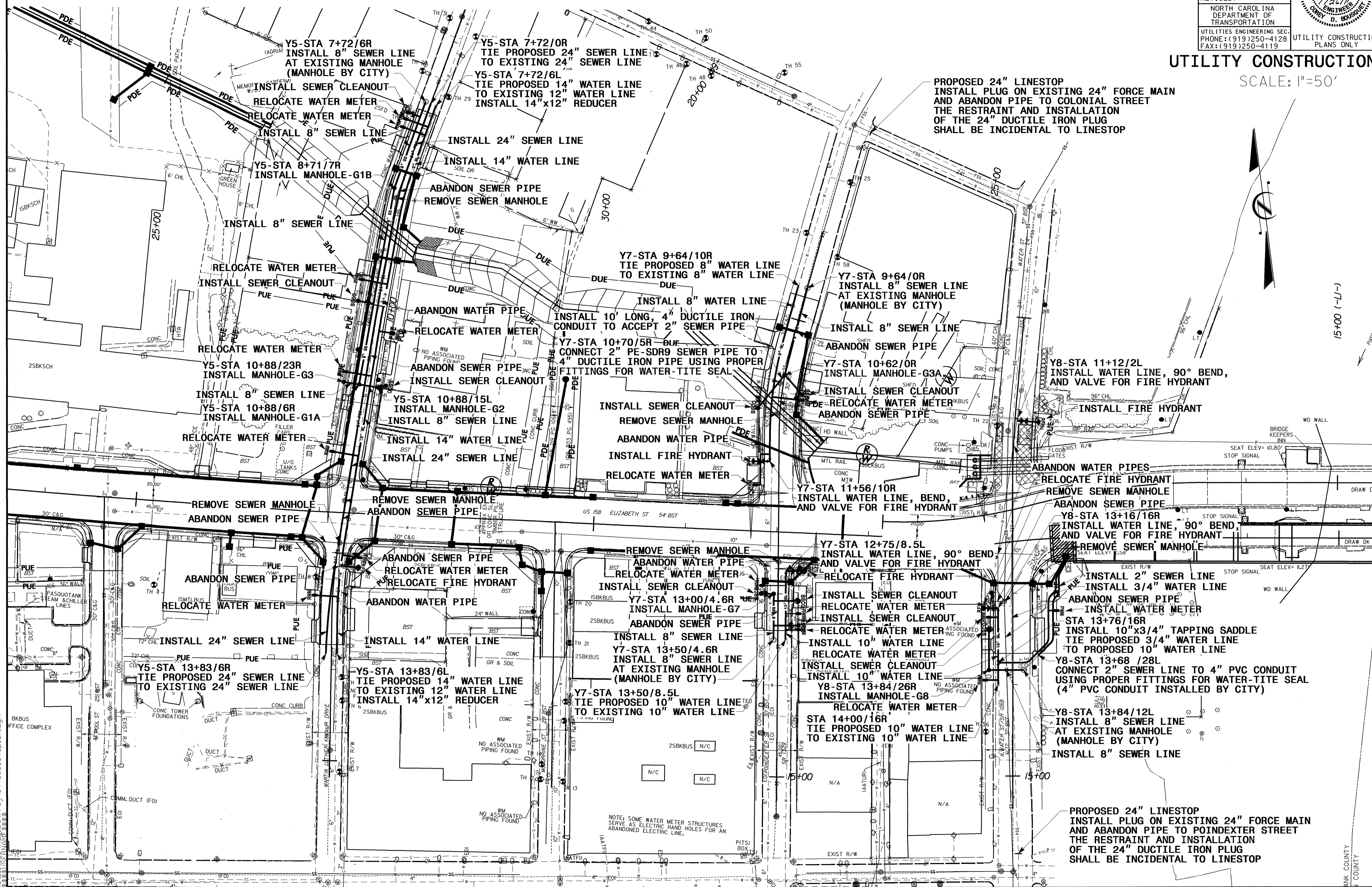
UTILITY CONSTRUCTION

SCALE: 1"=50'



15+00 (-L1-)

ANK COUNTY
COUNTY

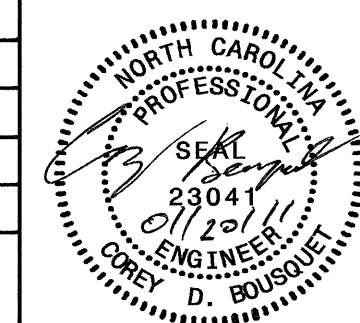


PROPOSED 24" LINESSTOP
 INSTALL PLUG ON EXISTING 24" FORCE MAIN
 AND ABANDON PIPE TO COLONIAL STREET
 THE RESTRAINT AND INSTALLATION
 OF THE 24" DUCTILE IRON PLUG
 SHALL BE INCIDENTAL TO LINESSTOP

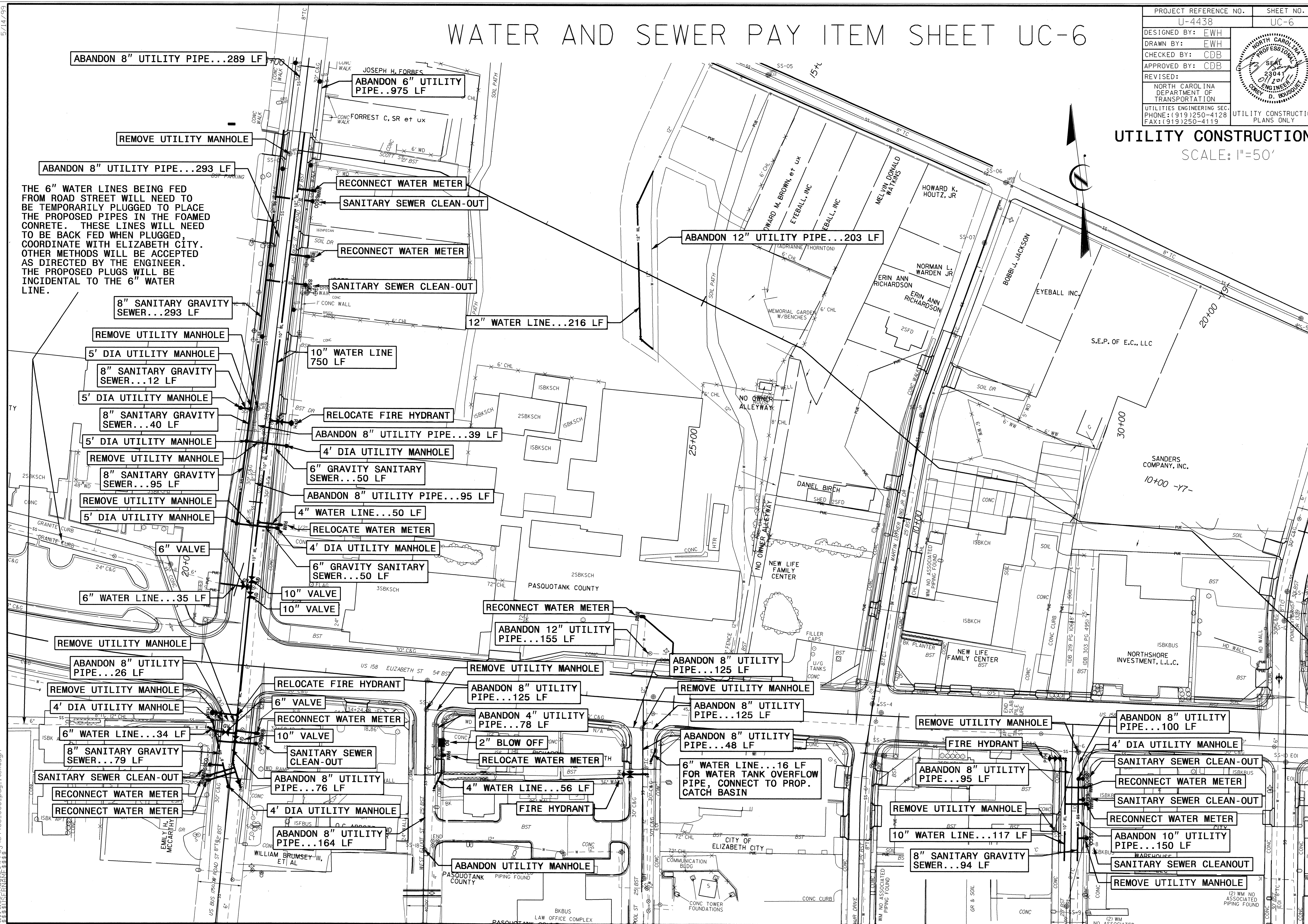
PROPOSED 24" LINESSTOP
 INSTALL PLUG ON EXISTING 24" FORCE MAIN
 AND ABANDON PIPE TO POINDEXTER STREET
 THE RESTRAINT AND INSTALLATION
 OF THE 24" DUCTILE IRON PLUG
 SHALL BE INCIDENTAL TO LINESSTOP

26-JAN-2010 06:54
 R:\A\2010\0654\4438\UC-4.plt.dgn

WATER AND SEWER PAY ITEM SHEET UC-6

PROJECT REFERENCE NO. U-4438	SHEET NO. UC-6
DESIGNED BY: EWH	
DRAWN BY: EWH	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919)250-4128 FAX: (919)250-4119	
UTILITY CONSTRUCTION PLANS ONLY	


UTILITY CONSTRUCTION
SCALE: 1"=50'



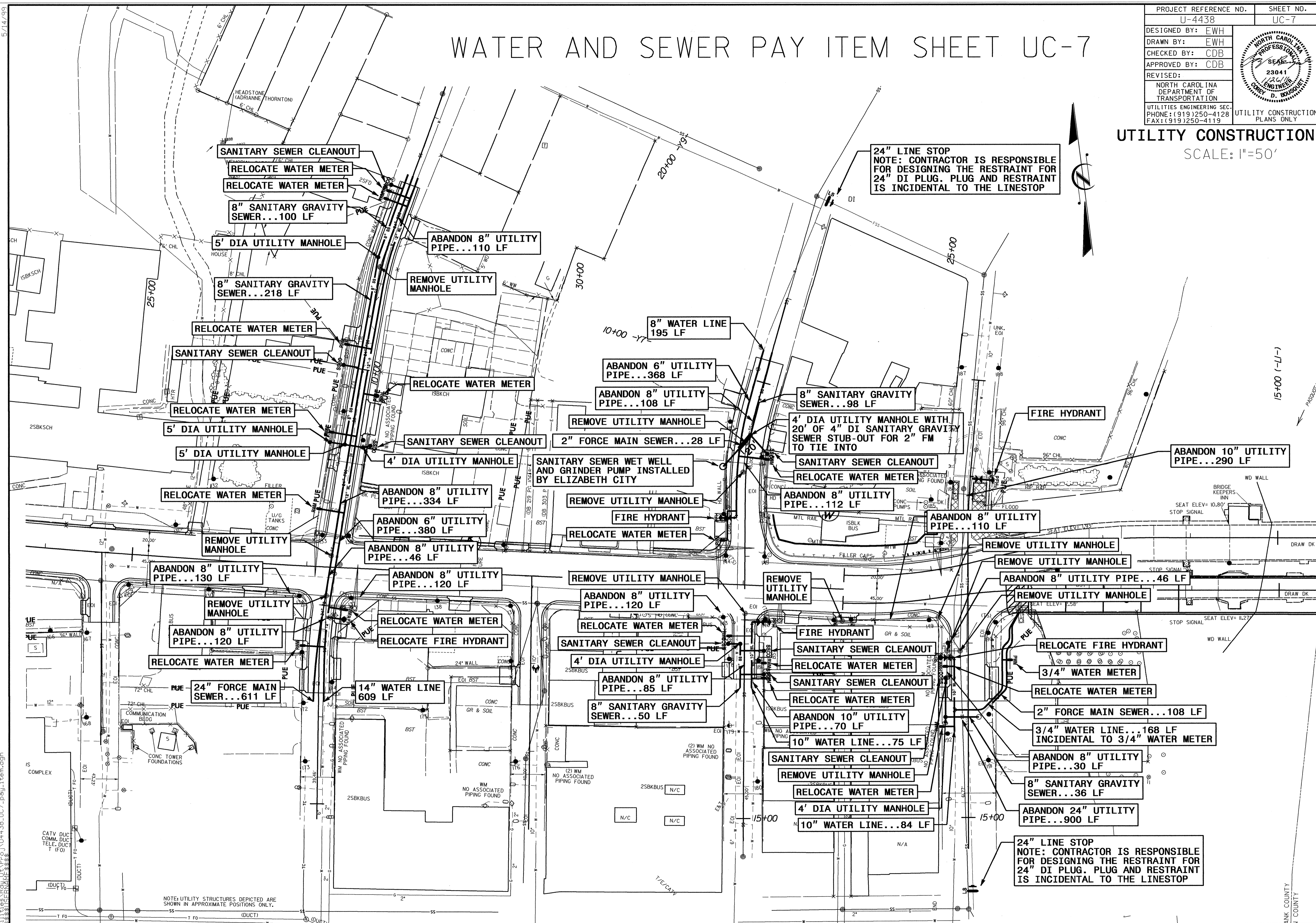
THE 6" WATER LINES BEING FED FROM ROAD STREET WILL NEED TO BE TEMPORARILY PLUGGED TO PLACE THE PROPOSED PIPES IN THE FOAMED CONCRETE. THESE LINES WILL NEED TO BE BACK FED WHEN PLUGGED, COORDINATE WITH ELIZABETH CITY. OTHER METHODS WILL BE ACCEPTED AS DIRECTED BY THE ENGINEER. THE PROPOSED PLUGS WILL BE INCIDENTAL TO THE 6" WATER LINE.

5/14/99
 20-JAN-2011 4:22
 R:\V\11105\ELIZABETH\UC6\JN4438_UC6_pay_item.dgn

WATER AND SEWER PAY ITEM SHEET UC-7

PROJECT REFERENCE NO. U-4438	SHEET NO. UC-7
DESIGNED BY: EWH	
DRAWN BY: EWH	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION
SCALE: 1"=50'



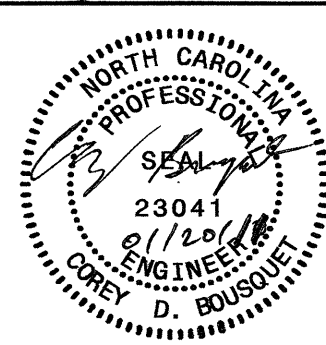
NOTE: UTILITY STRUCTURES DEPICTED ARE SHOWN IN APPROXIMATE POSITIONS ONLY.

5/14/99
26-JAN-2010 06:46
R:\R:\UTILITY\PROJECTS\4438\UC7\pay-item.dgn

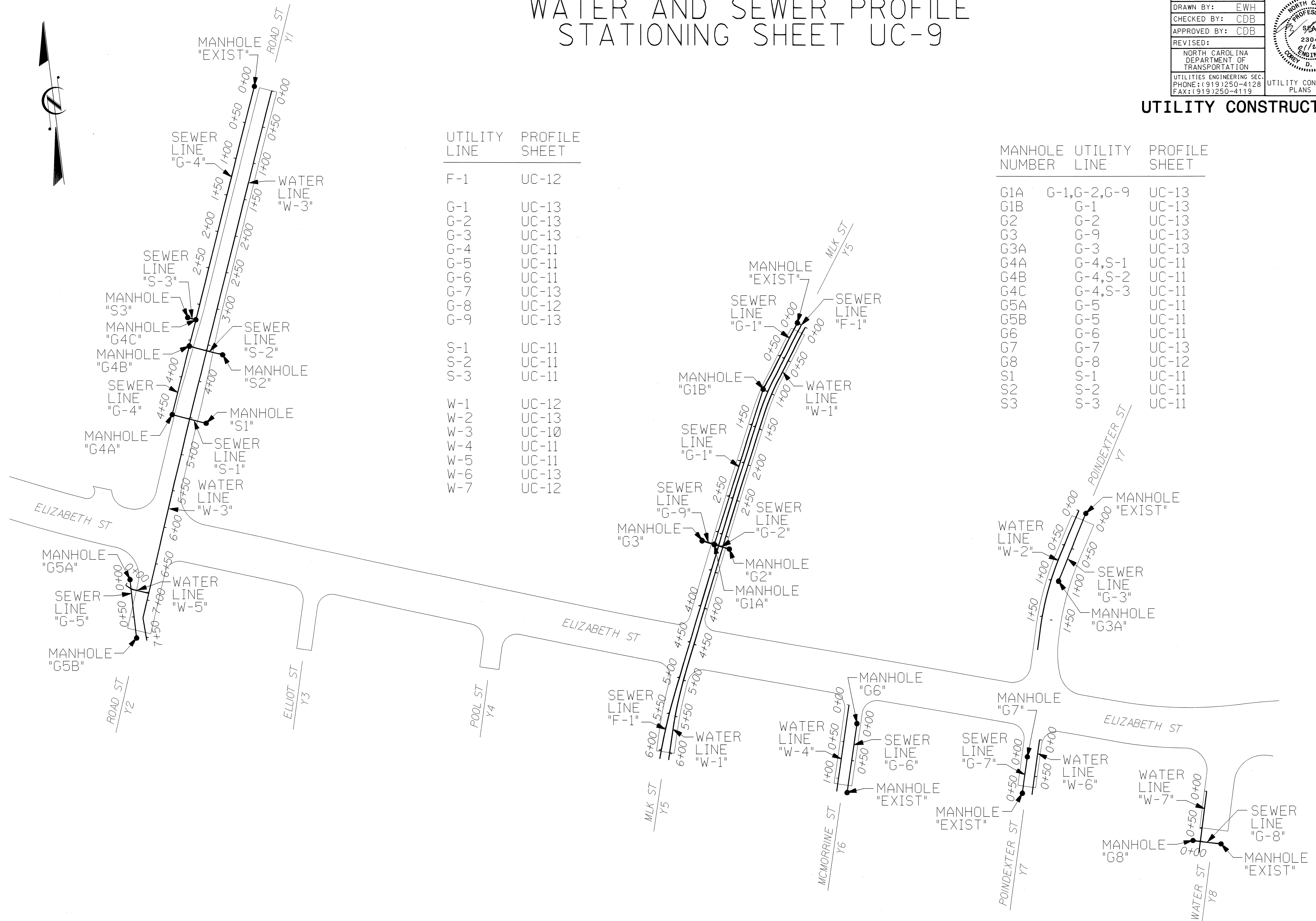
ANK COUNTY
N COUNTY

5/14/99

WATER AND SEWER PROFILE STATIONING SHEET UC-9

PROJECT REFERENCE NO. U-4438	SHEET NO. UC-9
DESIGNED BY: EWH	
DRAWN BY: EWH	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919)250-4128 FAX: (919)250-4119	

UTILITY CONSTRUCTION



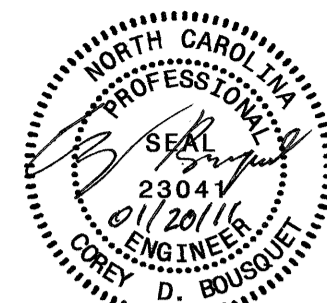
UTILITY LINE	PROFILE SHEET
F-1	UC-12
G-1	UC-13
G-2	UC-13
G-3	UC-13
G-4	UC-11
G-5	UC-11
G-6	UC-11
G-7	UC-13
G-8	UC-12
G-9	UC-13
S-1	UC-11
S-2	UC-11
S-3	UC-11
W-1	UC-12
W-2	UC-13
W-3	UC-10
W-4	UC-11
W-5	UC-11
W-6	UC-13
W-7	UC-12

MANHOLE NUMBER	UTILITY LINE	PROFILE SHEET
G1A	G-1,G-2,G-9	UC-13
G1B	G-1	UC-13
G2	G-2	UC-13
G3	G-9	UC-13
G3A	G-3	UC-13
G4A	G-4,S-1	UC-11
G4B	G-4,S-2	UC-11
G4C	G-4,S-3	UC-11
G5A	G-5	UC-11
G5B	G-5	UC-11
G6	G-6	UC-11
G7	G-7	UC-13
G8	G-8	UC-12
S1	S-1	UC-11
S2	S-2	UC-11
S3	S-3	UC-11

20-JAN-2011 4:17
U:\projects\110811\110811.dwg
U:\projects\110811\110811.dwg

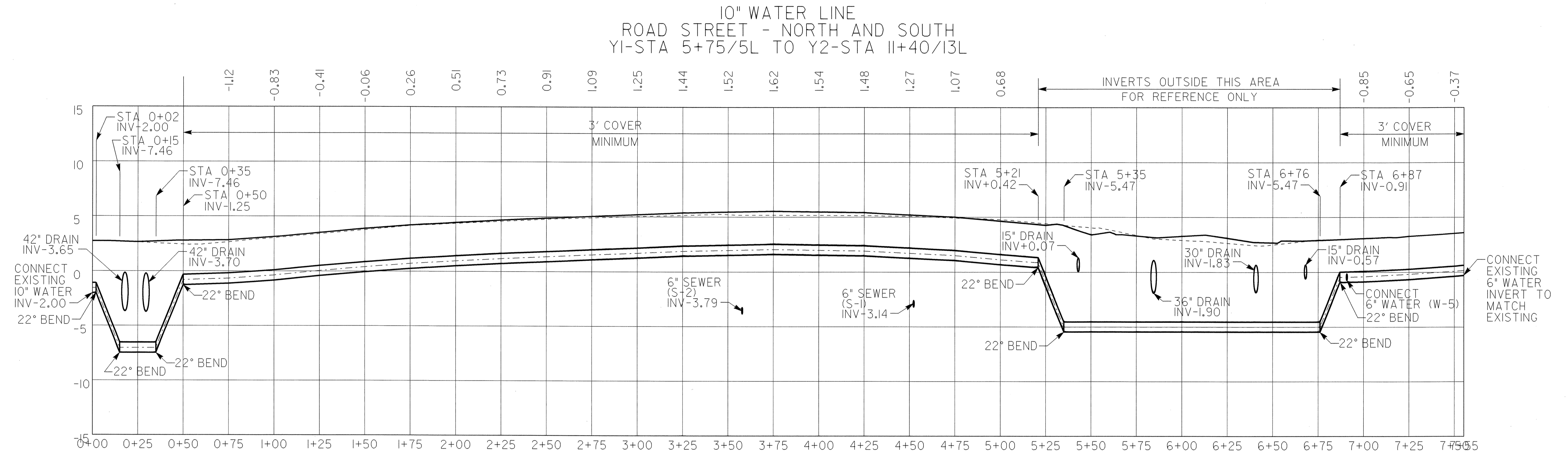
5/14/99

WATER AND SEWER LINE PROFILES SHEET UC-10

PROJECT REFERENCE NO. U-4438	SHEET NO. UC-10
DESIGNED BY: EWH	
DRAWN BY: EWH	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

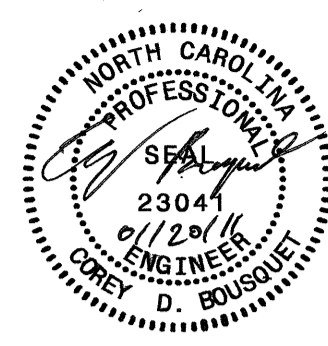
SCALE:
 HORIZONTAL: 1"=30'
 VERTICAL: 1"=5'



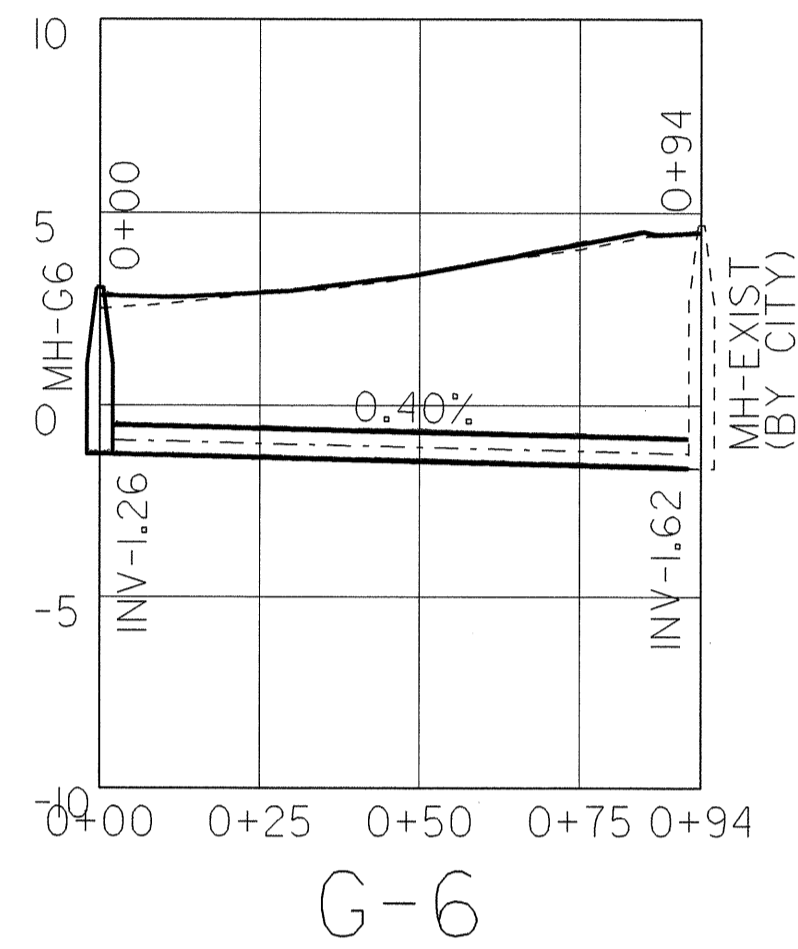
W-3

REVISION: 20-JAN-2011 4:16 PM
 PROJECT: U-4438-UC10-profile.dgn

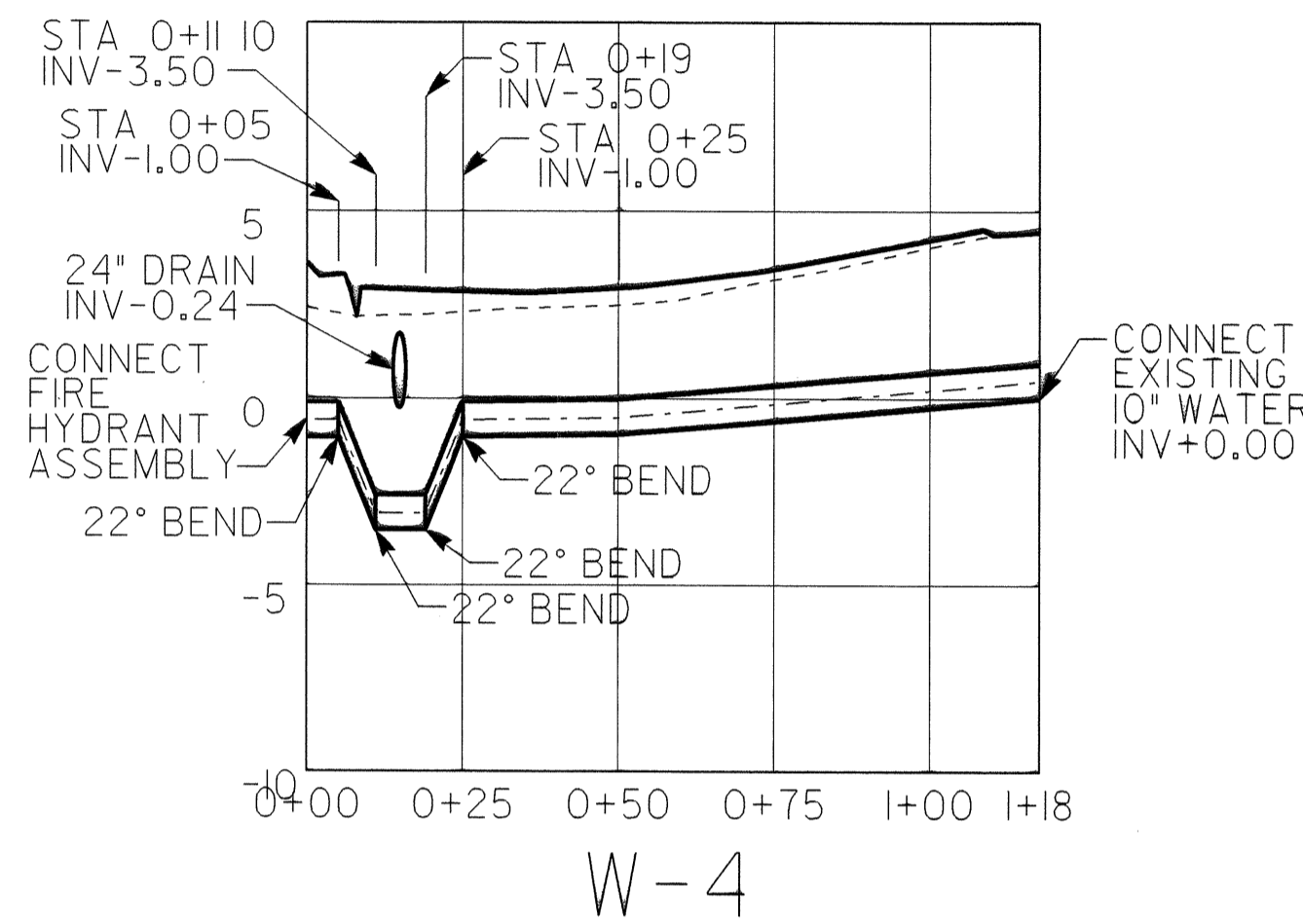
WATER AND SEWER LINE PROFILES SHEET UC-II

PROJECT REFERENCE NO. U-4438	SHEET NO. UC-II
DESIGNED BY: EWH	
DRAWN BY: EWH	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919)250-4128 FAX: (919)250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

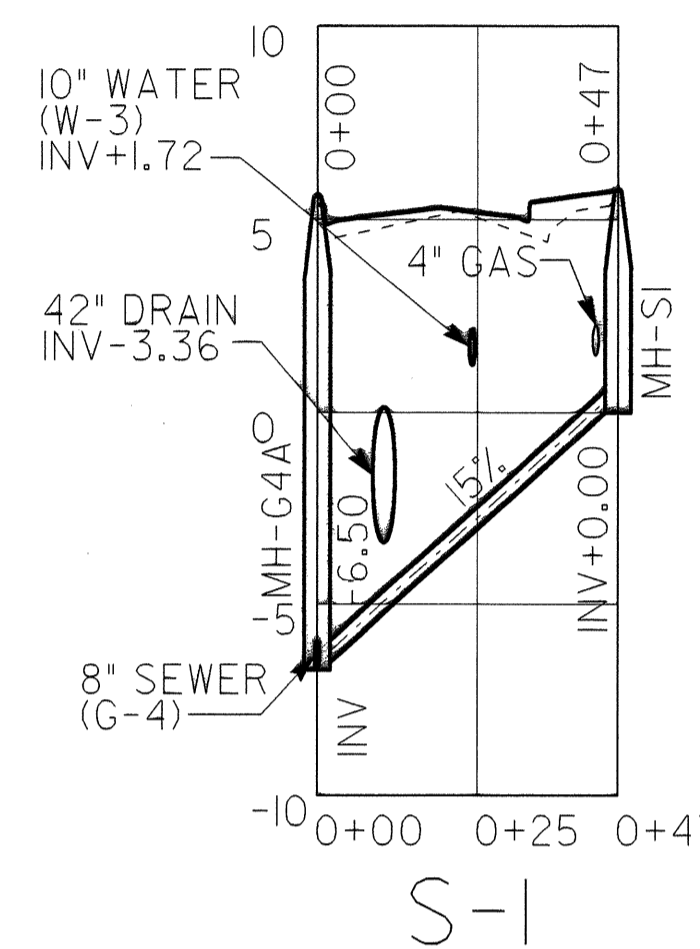
8" SEWER LINE
MCMORRINE STREET - SOUTH
Y6-STA 10+63/7L TO
Y6-STA 11+57/7L



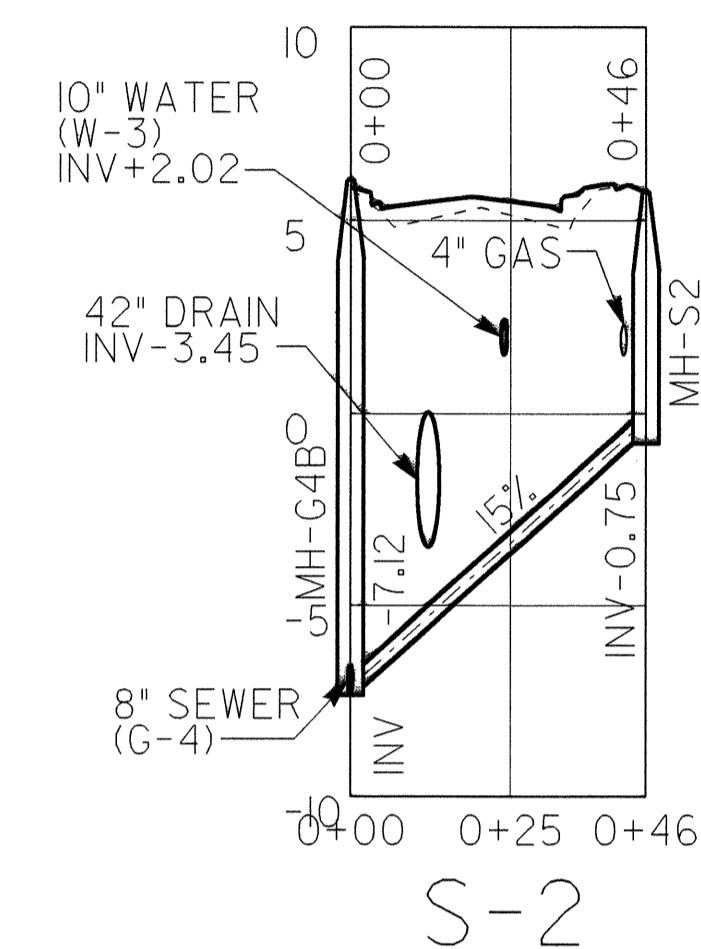
10" WATER LINE
MCMORRINE STREET - SOUTH
Y6-STA 10+39/7R TO
Y6-STA 11+57/7R



6" SEWER SERVICE
ROAD STREET - NORTH
YI-STA 10+27/19R TO
YI-STA 10+27/28L



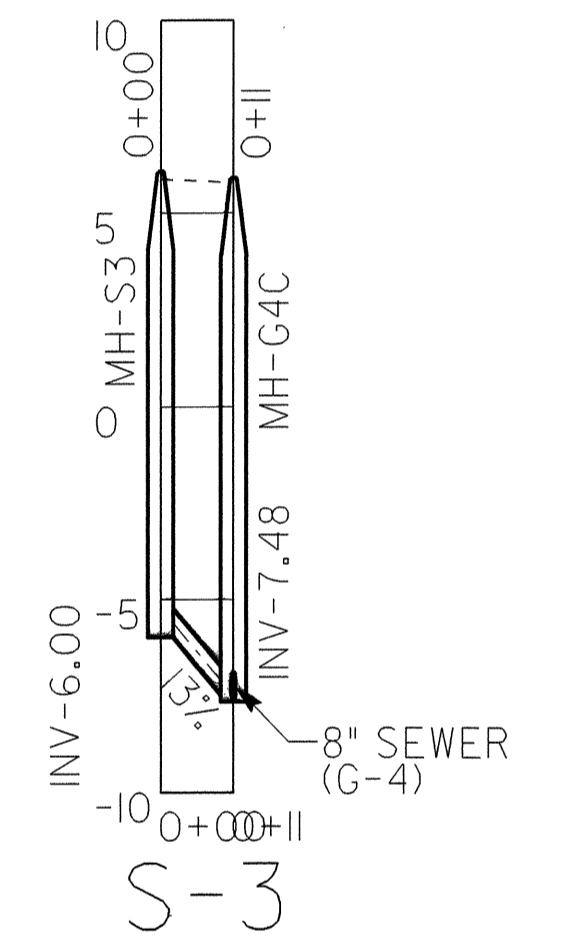
6" SEWER SERVICE
ROAD STREET - NORTH
YI-STA 9+33/19R TO
YI-STA 9+33/27L



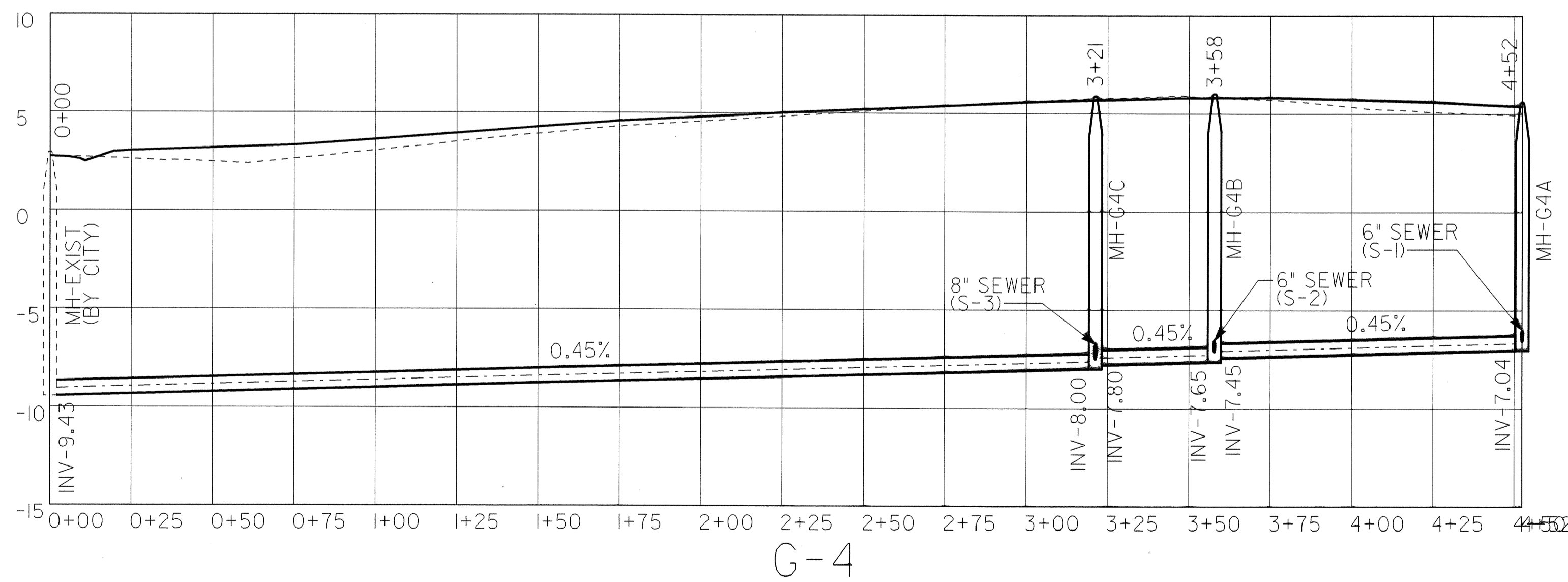
UTILITY CONSTRUCTION

SCALE:
HORIZONTAL: 1"=30'
VERTICAL: 1"=5'

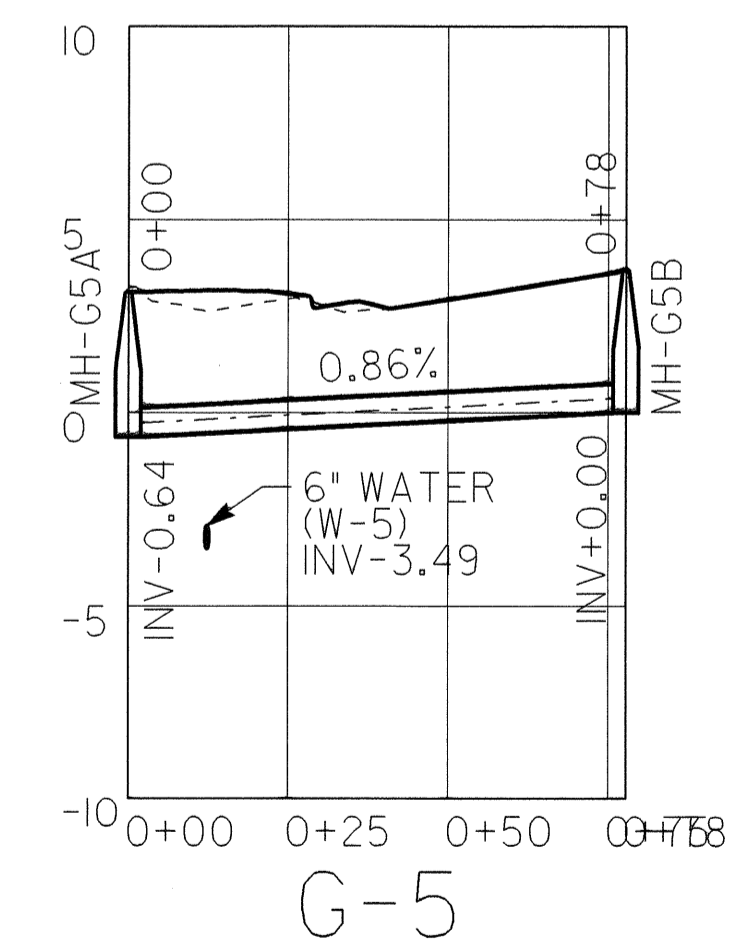
8" SEWER SERVICE
ROAD STREET - NORTH
YI-STA 8+96/19R TO
YI-STA 8+96/30R



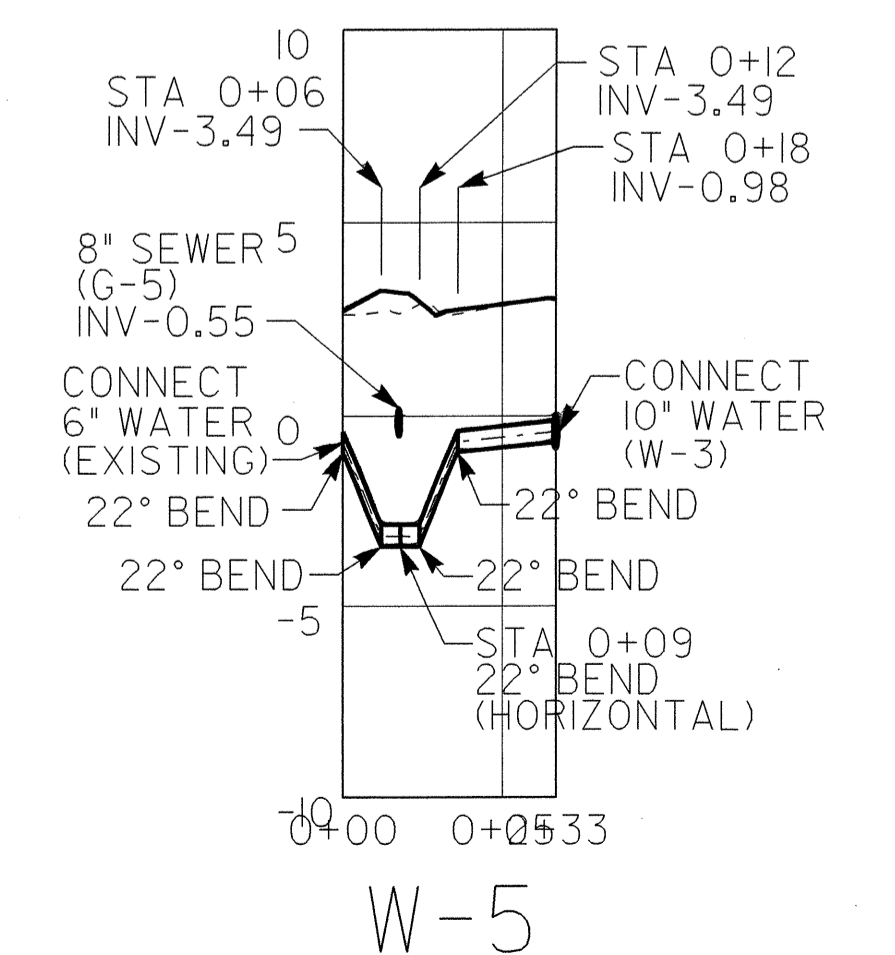
8" SEWER LINE
ROAD STREET - NORTH
YI-STA 5+75/19R TO
YI-STA 10+27/19R



8" SEWER LINE
ROAD STREET - SOUTH
Y2-STA 10+66/27R TO
Y2-STA 11+40/1R



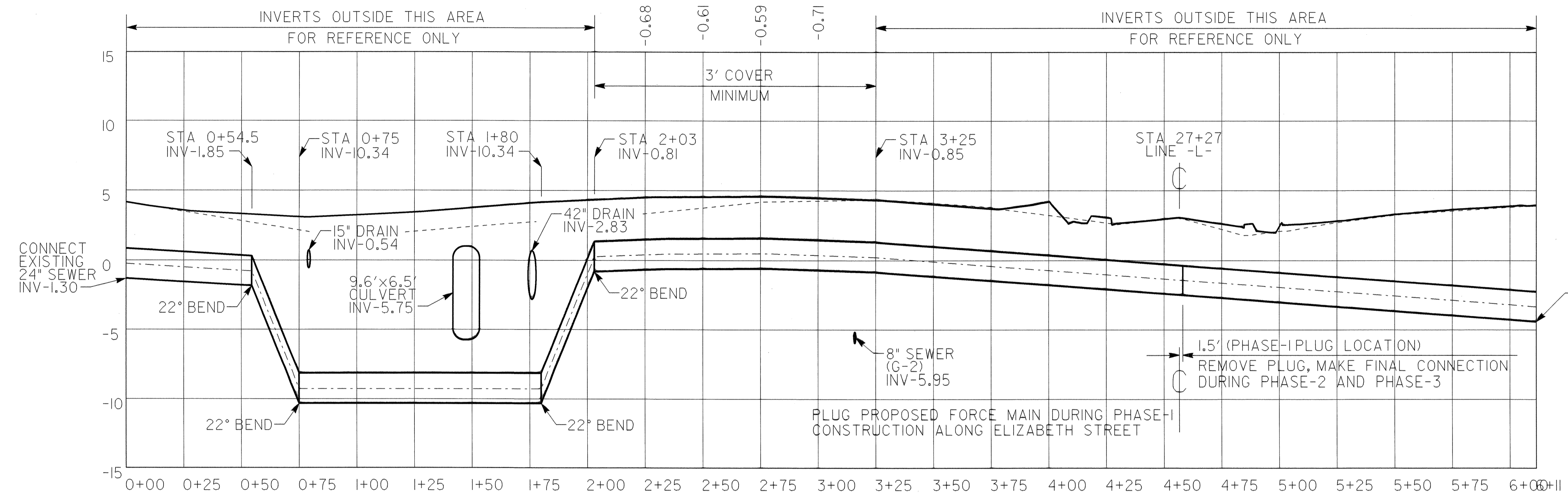
6" WATER LINE
ROAD STREET - SOUTH
Y2-STA 10+78/1L TO
Y2-STA 10+74/32R



5/14/99

WATER AND SEWER LINE PROFILES SHEET UC-12

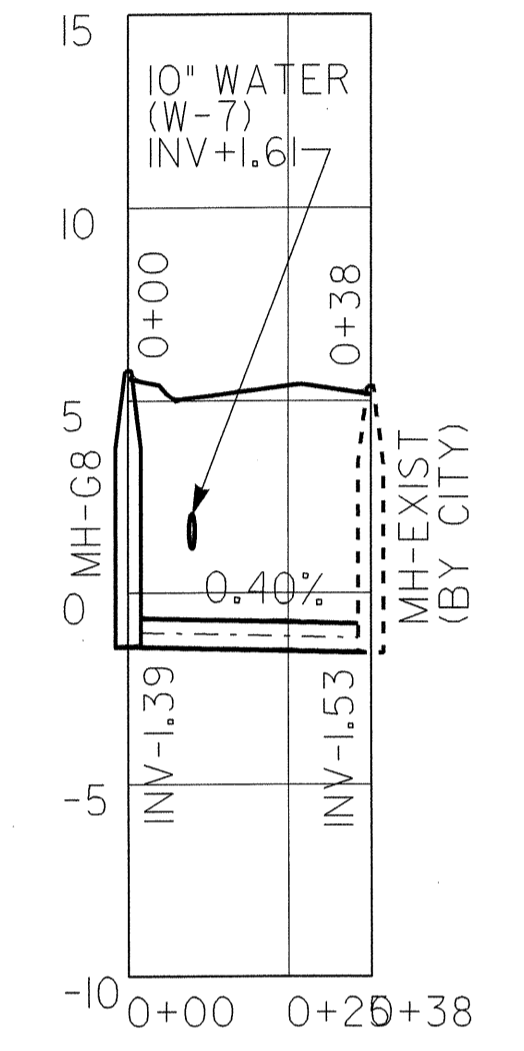
24" FORCE MAIN SEWER MLK STREET - NORTH AND SOUTH Y5-STA 7+72/OR TO Y5-STA 13+83/6R



F-1

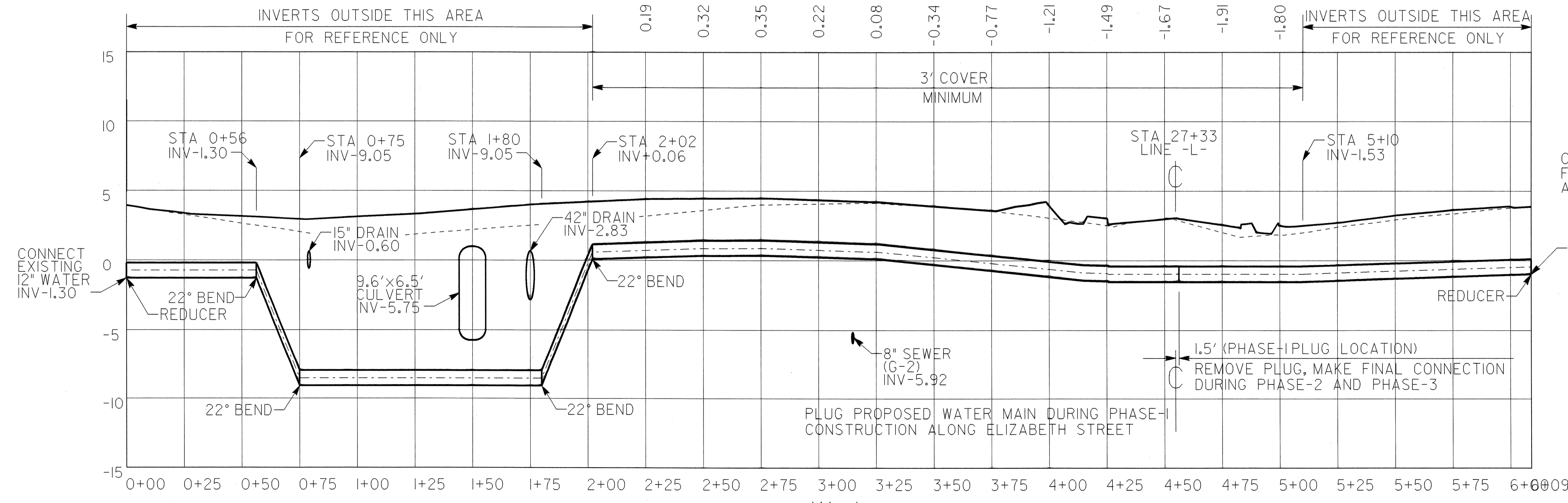
UTILITY CONSTRUCTION

8" SEWER LINE WATER STREET - SOUTH Y8-STA 13+84/26R TO Y8-STA 13+84/12L



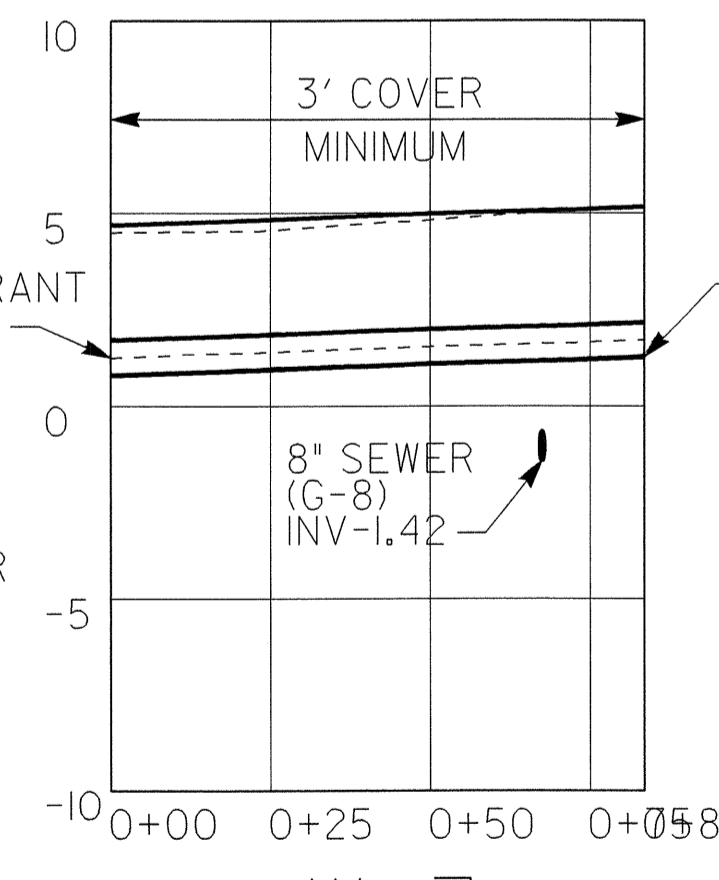
G-8

14" WATER LINE MLK STREET - NORTH AND SOUTH Y5-STA 7+72/6L TO Y5-STA 13+83/6L



W-1

10" WATER LINE WATER STREET - SOUTH Y8-STA 13+16/16R TO Y8-STA 14+00/16R



W-7

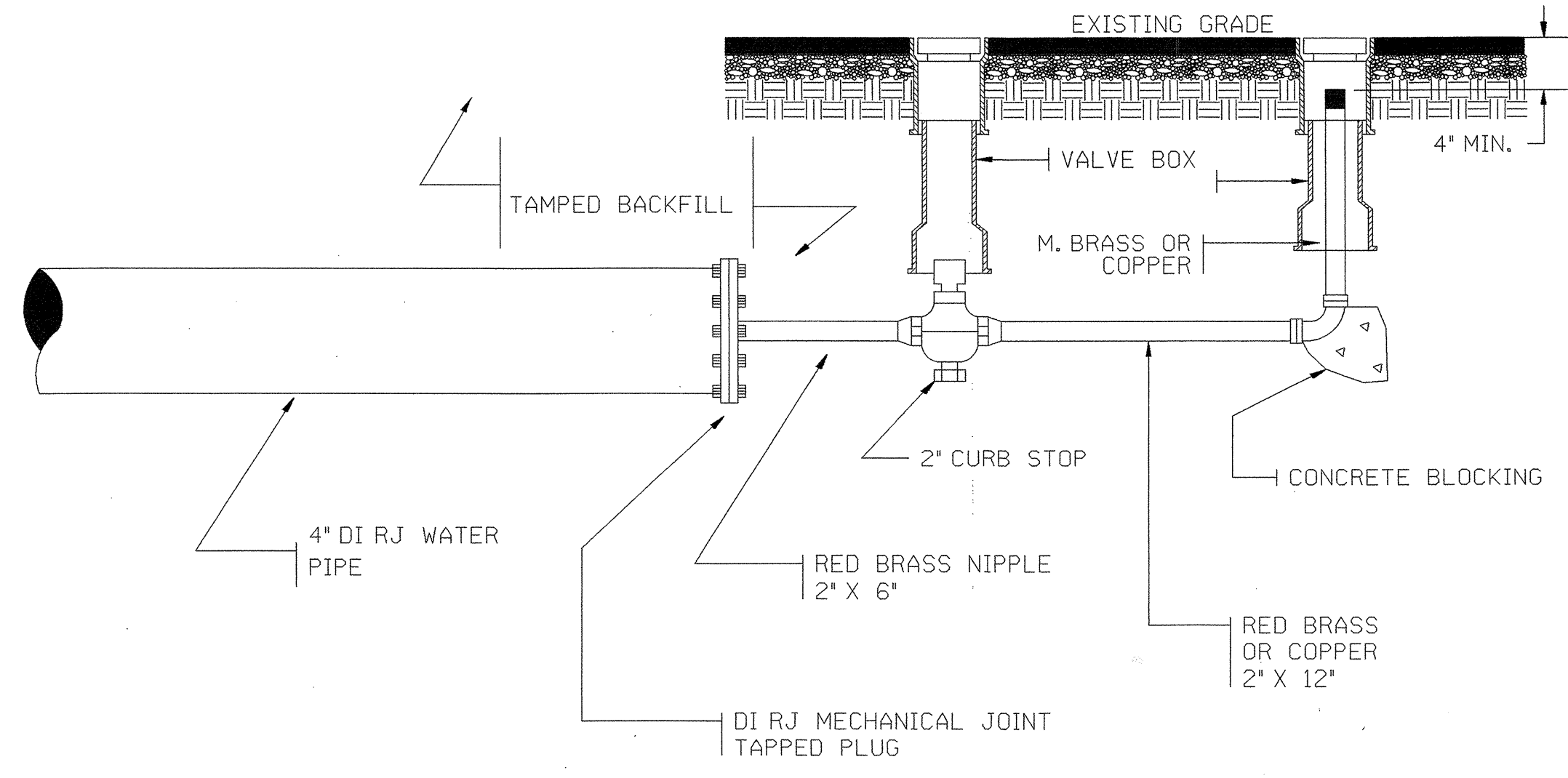
SCALE:
HORIZONTAL: 1"=30'
VERTICAL: 1"=5'

R:\U\120-JAN-2011\416-344305-11\U4438_UC12_profiles.dgn

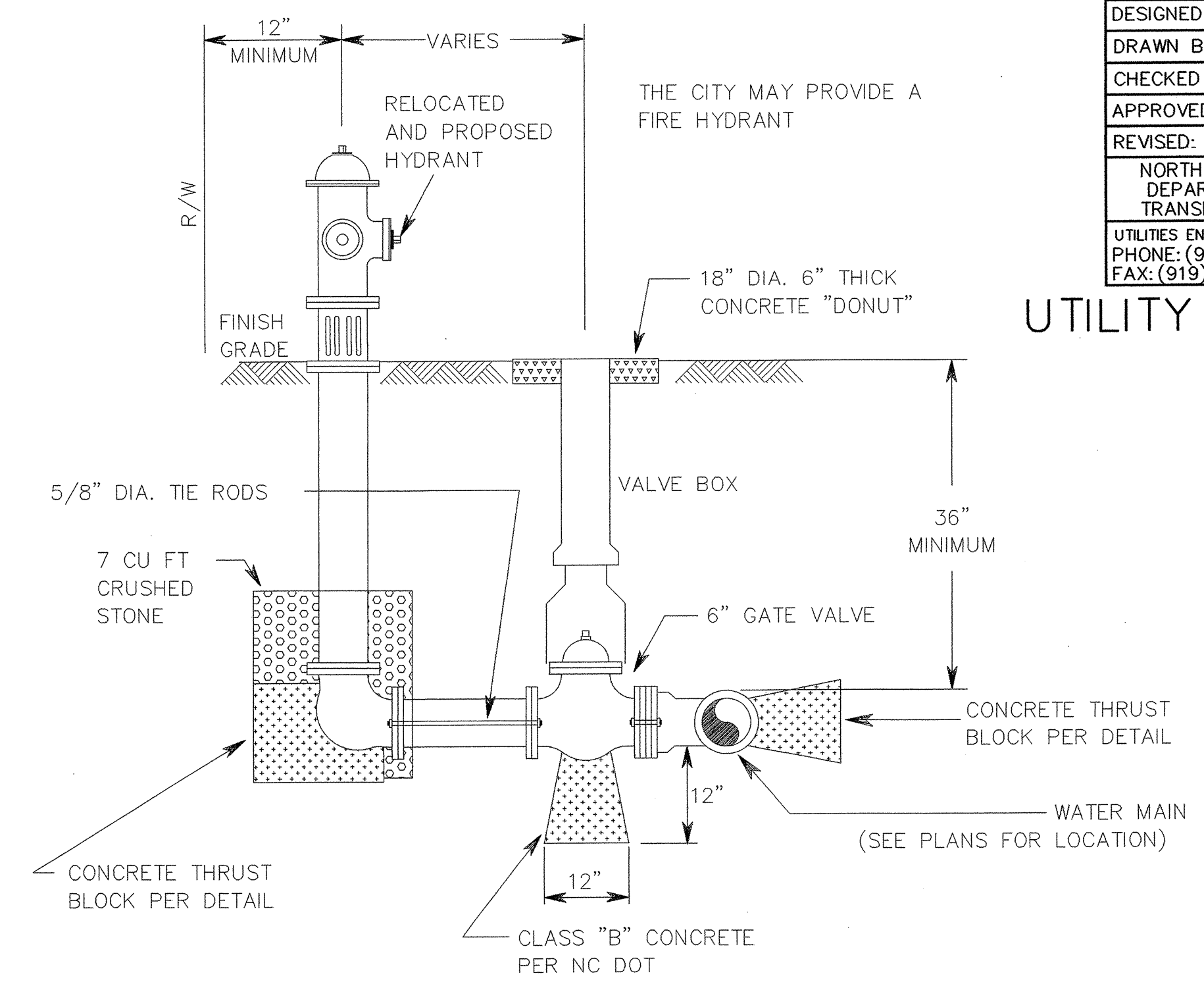
PROJECT REFERENCE NO. U-4438	SHEET NO. UC-12
DESIGNED BY: EWH	
DRAWN BY: EWH	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919)250-4128 FAX: (919)250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
U-4438	UC-14
DESIGNED BY: KSM	
DRAWN BY: KSM	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

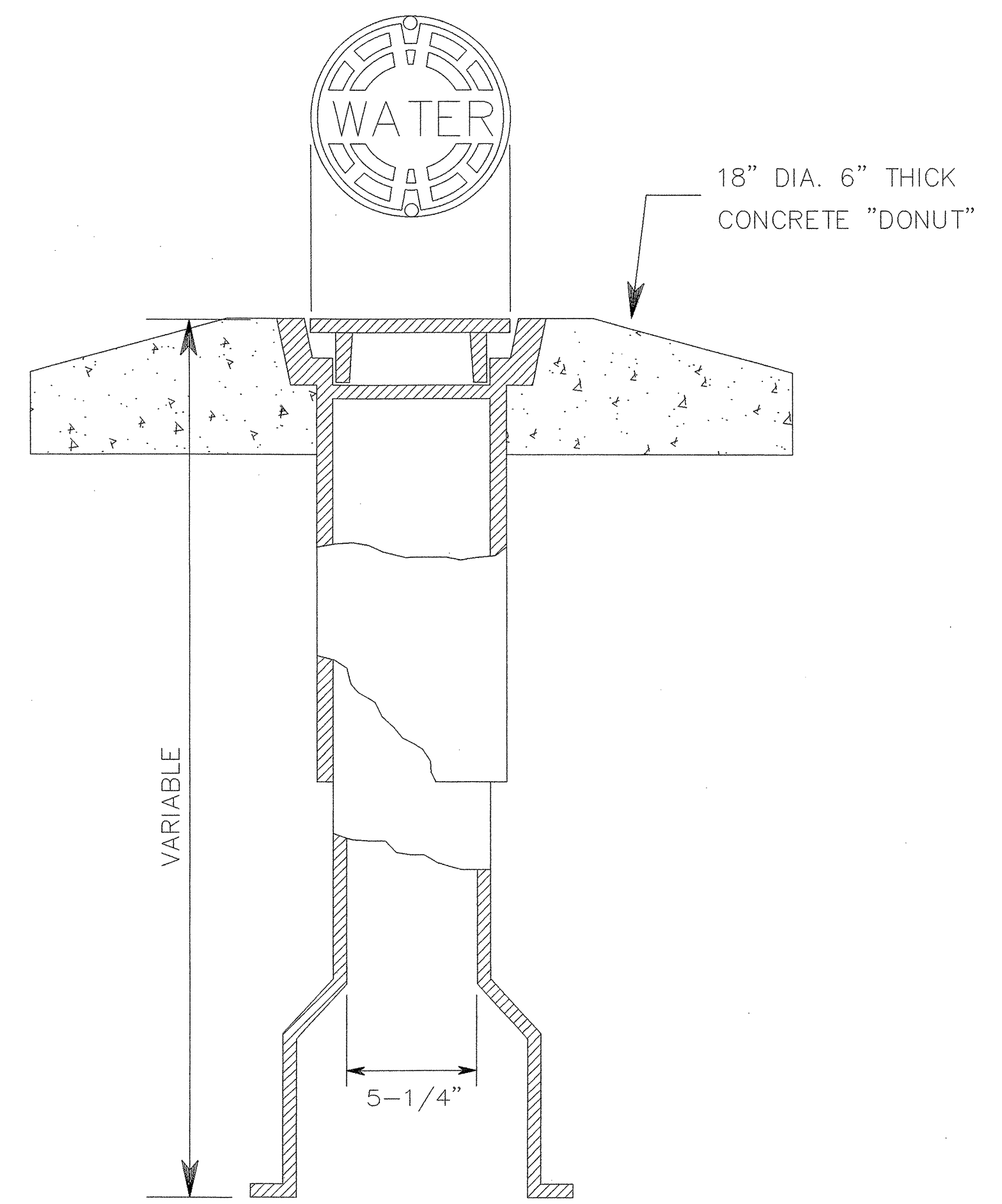


2" BLOW OFF DETAIL

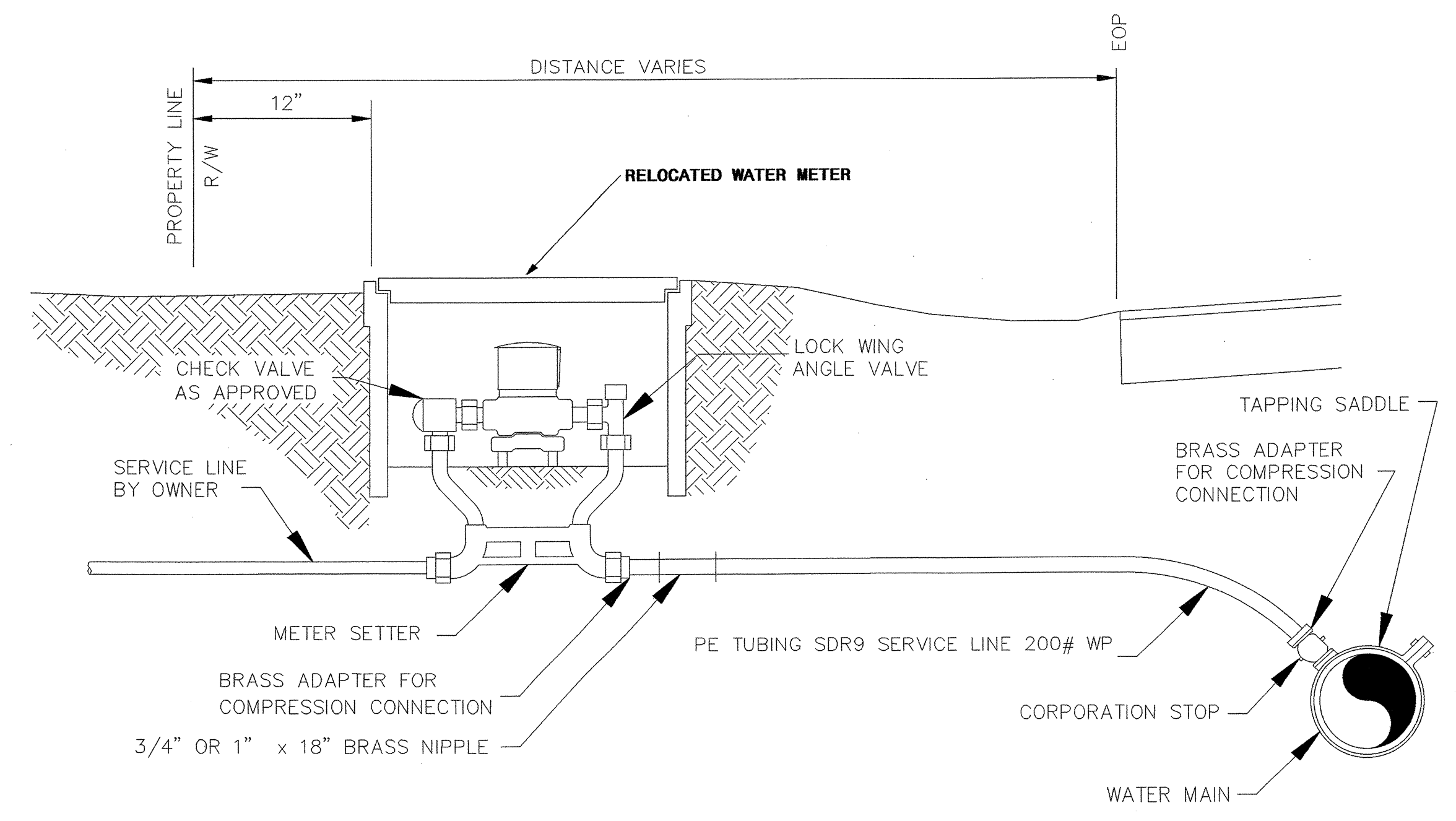


- NOTES:
- DO NOT BLOCK HYDRANT DRAIN WITH THRUST BLOCKING
 - COAT TIE RODS & NUTS WITH EPOXY
 - DO NOT SUPPORT VALVE BOX DIRECTLY ON VALVE
 - ALL JOINTS SHALL BE MECHANICAL JOINTS

FIRE HYDRANT DETAIL



VALVE BOX



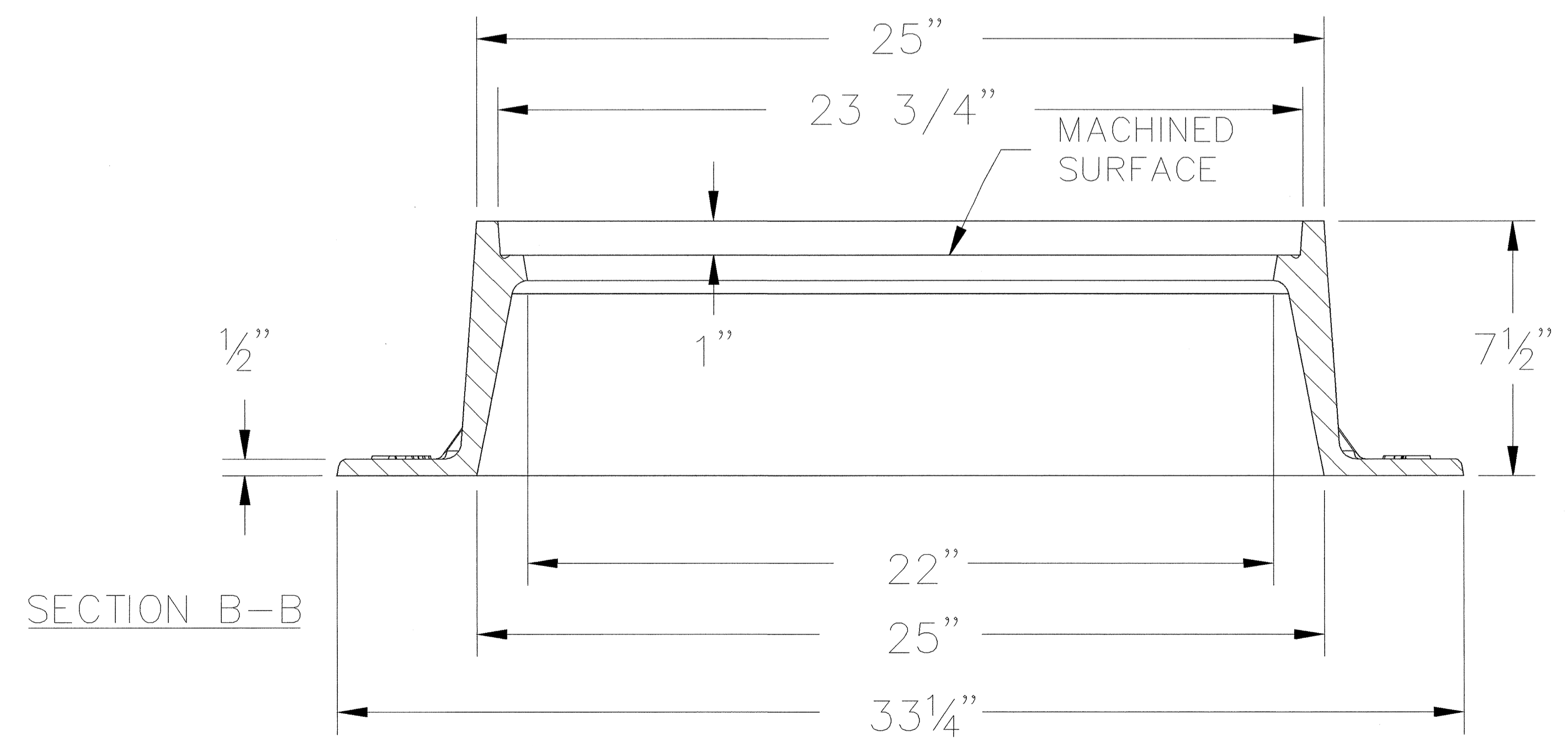
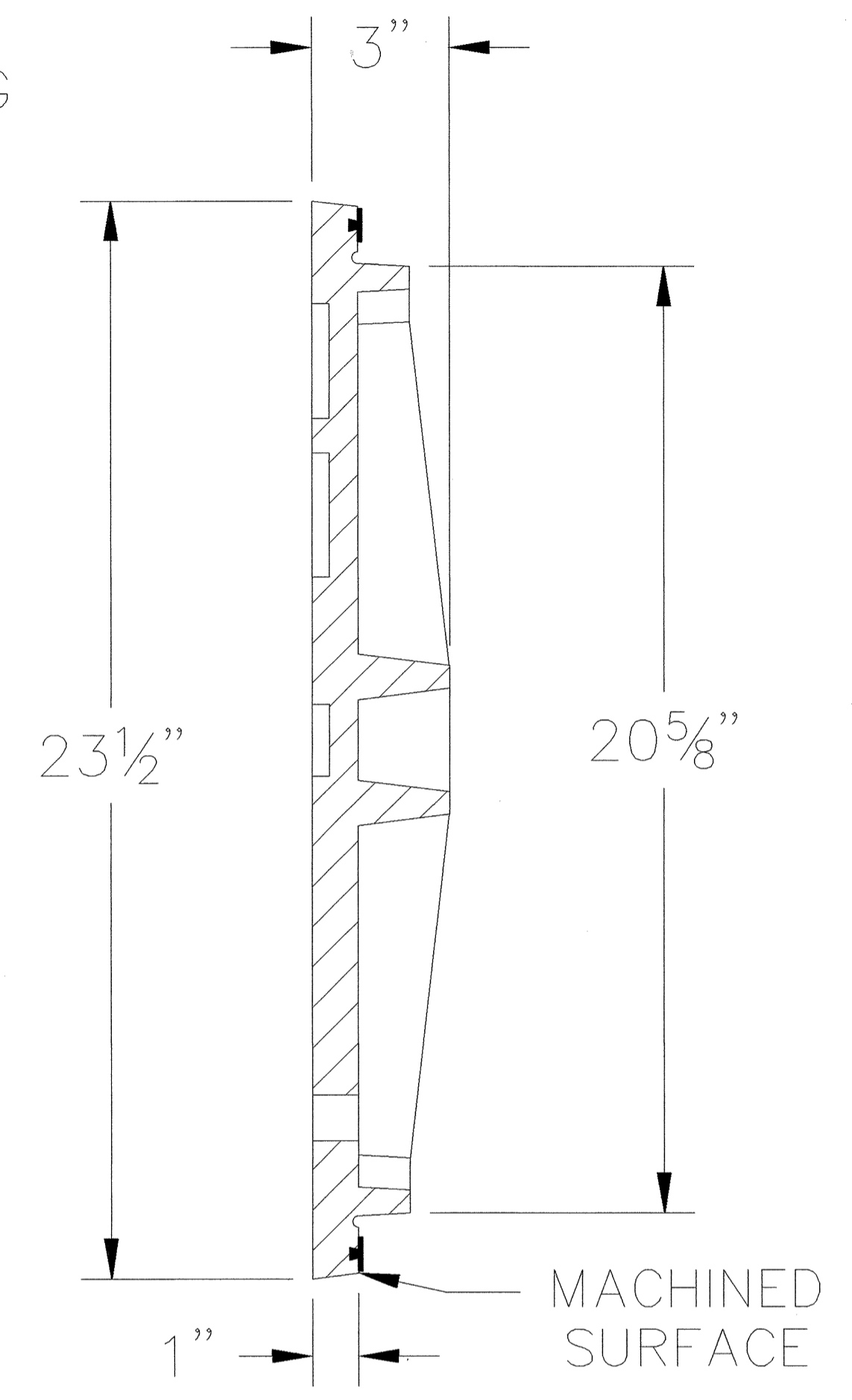
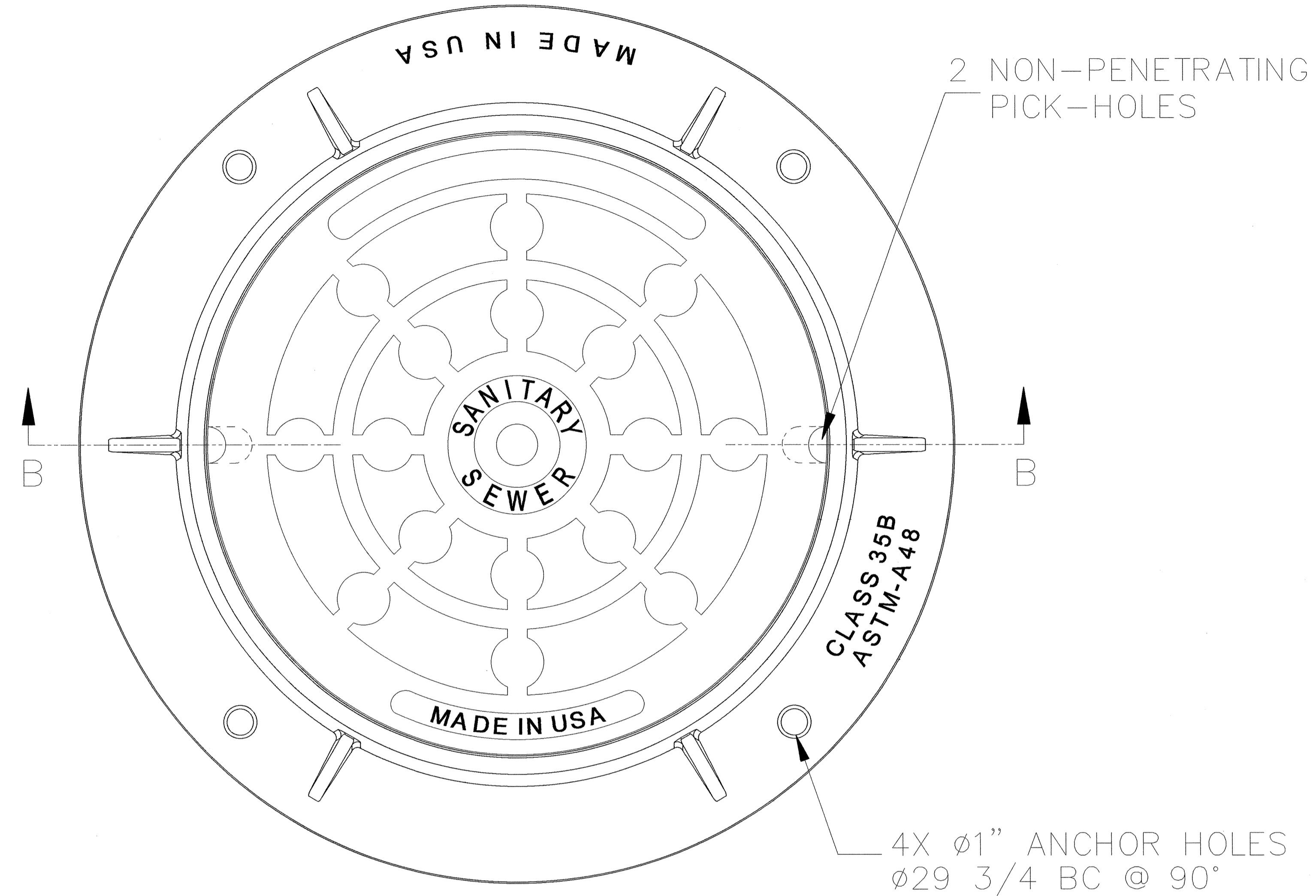
3/4" TO 1" WATER SERVICE CONNECTION DETAIL

08 DEC 2010 13:37 U-4438_Ut_UC14_psh_detail.dgn

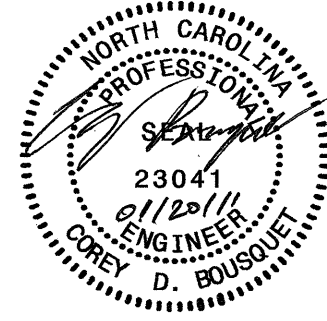
5/14/99

PROJECT REFERENCE NO.	SHEET NO.
U-4438	UC-17
DESIGNED BY: KSM	
DRAWN BY: KSM	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919)250-4128 FAX: (919)250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION



01-EEB-20112:08
U:\Projects\1558\UC17\psh_detail.dgn

PROJECT REFERENCE NO.	SHEET NO.
U-4438	UC-18
DESIGNED BY: CDB	
DRAWN BY: CDB	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919)250-4128 FAX: (919)250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

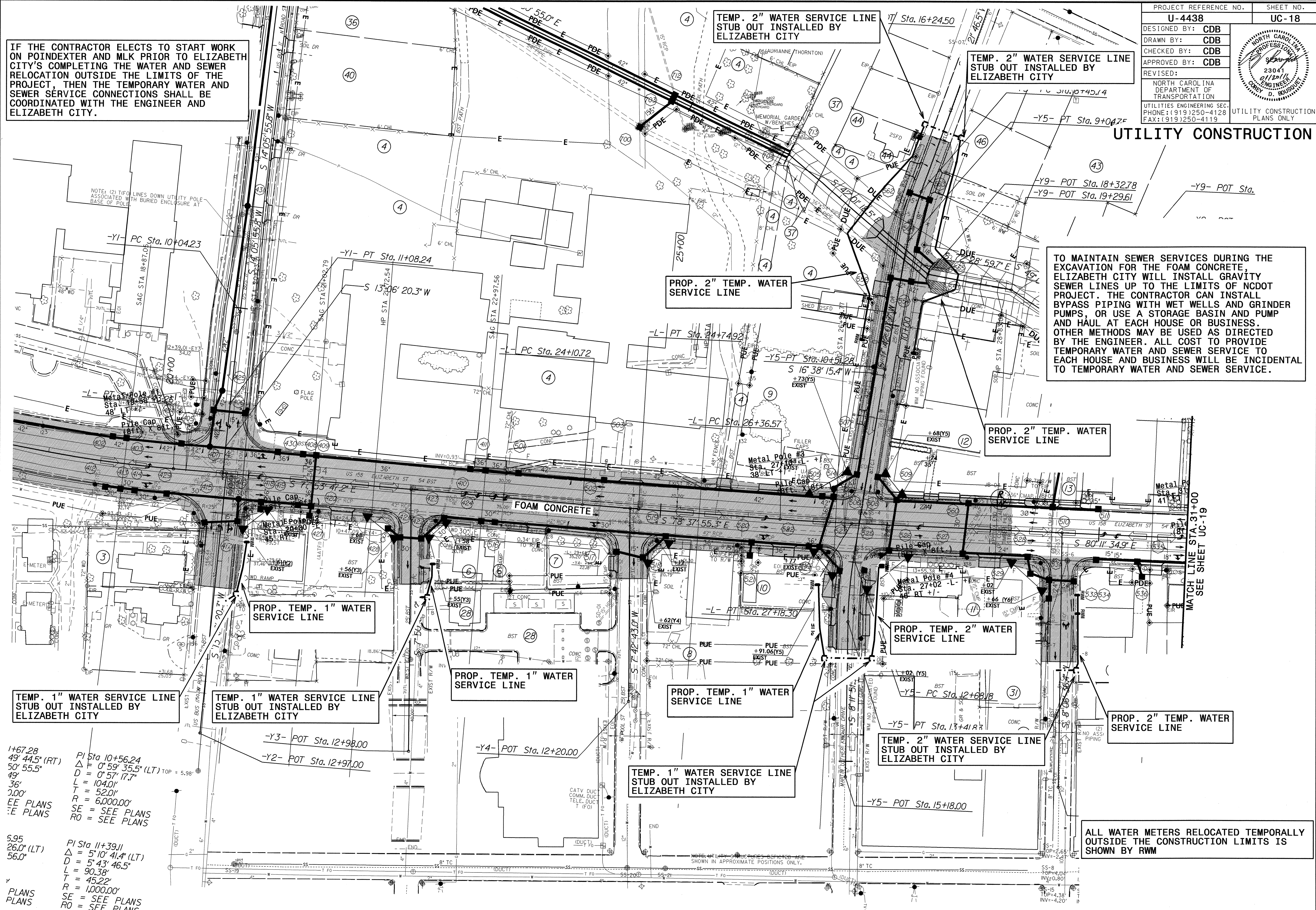
UTILITY CONSTRUCTION

IF THE CONTRACTOR ELECTS TO START WORK ON POINDEXTER AND MLK PRIOR TO ELIZABETH CITY'S COMPLETING THE WATER AND SEWER RELOCATION OUTSIDE THE LIMITS OF THE PROJECT, THEN THE TEMPORARY WATER AND SEWER SERVICE CONNECTIONS SHALL BE COORDINATED WITH THE ENGINEER AND ELIZABETH CITY.

TEMP. 2" WATER SERVICE LINE STUB OUT INSTALLED BY ELIZABETH CITY

TEMP. 2" WATER SERVICE LINE STUB OUT INSTALLED BY ELIZABETH CITY

TO MAINTAIN SEWER SERVICES DURING THE EXCAVATION FOR THE FOAM CONCRETE, ELIZABETH CITY WILL INSTALL GRAVITY SEWER LINES UP TO THE LIMITS OF NCDOT PROJECT. THE CONTRACTOR CAN INSTALL BYPASS PIPING WITH WET WELLS AND GRINDER PUMPS, OR USE A STORAGE BASIN AND PUMP AND HAUL AT EACH HOUSE OR BUSINESS. OTHER METHODS MAY BE USED AS DIRECTED BY THE ENGINEER. ALL COST TO PROVIDE TEMPORARY WATER AND SEWER SERVICE TO EACH HOUSE AND BUSINESS WILL BE INCIDENTAL TO TEMPORARY WATER AND SEWER SERVICE.



TEMP. 1" WATER SERVICE LINE STUB OUT INSTALLED BY ELIZABETH CITY

TEMP. 1" WATER SERVICE LINE STUB OUT INSTALLED BY ELIZABETH CITY

PROP. TEMP. 1" WATER SERVICE LINE

PROP. TEMP. 1" WATER SERVICE LINE

TEMP. 1" WATER SERVICE LINE STUB OUT INSTALLED BY ELIZABETH CITY

PROP. TEMP. 2" WATER SERVICE LINE

TEMP. 2" WATER SERVICE LINE STUB OUT INSTALLED BY ELIZABETH CITY

PROP. 2" TEMP. WATER SERVICE LINE

ALL WATER METERS RELOCATED TEMPORALLY OUTSIDE THE CONSTRUCTION LIMITS IS SHOWN BY RWM

1+67.28
 49° 44.5' (RT)
 50' 55.5"
 49'
 36'
 2.00'
 EE PLANS
 SE PLANS

5.95
 26.0° (LT)
 56.0'

PI Sta 10+56.24
 $\Delta = 0' 59' 35.5"$ (LT) TOP = 5.98'
 $D = 0' 57' 17.7"$
 $L = 104.01'$
 $T = 52.01'$
 $R = 6,000.00'$
 SE = SEE PLANS
 RO = SEE PLANS

PI Sta 11+39.11
 $\Delta = 5' 10' 41.4"$ (LT)
 $D = 5' 43' 46.5"$
 $L = 90.38'$
 $T = 45.22'$
 $R = 1,000.00'$
 SE = SEE PLANS
 RO = SEE PLANS

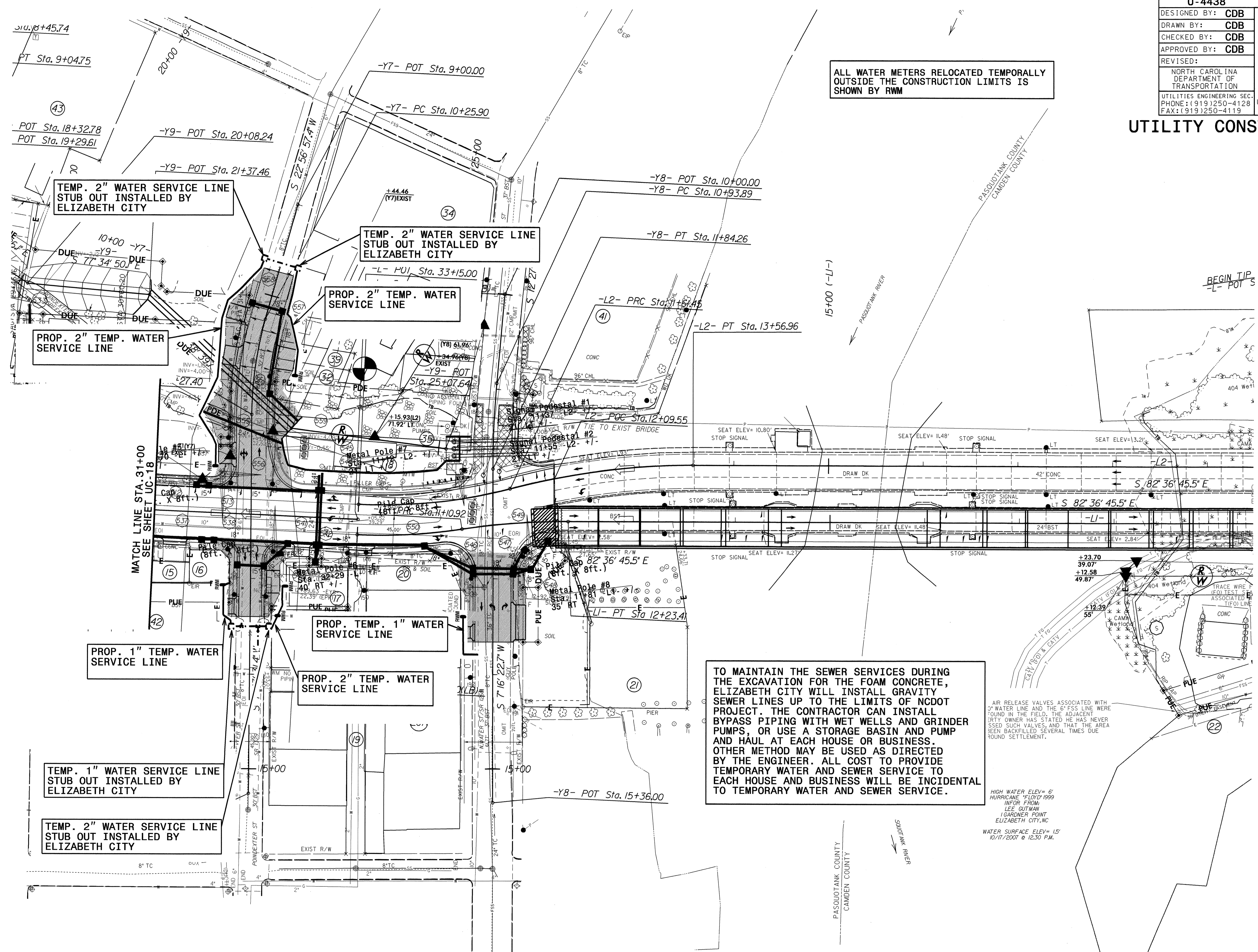
5/14/99
 19-JAN-2011 11:44:38-UC-18-...-ser-v.dgn

5/14/99

PROJECT REFERENCE NO.	SHEET NO.
U-4438	U-19
DESIGNED BY: CDB	
DRAWN BY: CDB	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919)250-4128 FAX: (919)250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION

ALL WATER METERS RELOCATED TEMPORALLY OUTSIDE THE CONSTRUCTION LIMITS IS SHOWN BY RWM



TEMP. 2" WATER SERVICE LINE STUB OUT INSTALLED BY ELIZABETH CITY

TEMP. 2" WATER SERVICE LINE STUB OUT INSTALLED BY ELIZABETH CITY

PROP. 2" TEMP. WATER SERVICE LINE

PROP. 2" TEMP. WATER SERVICE LINE

PROP. 1" TEMP. WATER SERVICE LINE

PROP. 2" TEMP. WATER SERVICE LINE

TEMP. 1" WATER SERVICE LINE STUB OUT INSTALLED BY ELIZABETH CITY

TEMP. 2" WATER SERVICE LINE STUB OUT INSTALLED BY ELIZABETH CITY

TO MAINTAIN THE SEWER SERVICES DURING THE EXCAVATION FOR THE FOAM CONCRETE, ELIZABETH CITY WILL INSTALL GRAVITY SEWER LINES UP TO THE LIMITS OF NCDOT PROJECT. THE CONTRACTOR CAN INSTALL BYPASS PIPING WITH WET WELLS AND GRINDER PUMPS, OR USE A STORAGE BASIN AND PUMP AND HAUL AT EACH HOUSE OR BUSINESS. OTHER METHOD MAY BE USED AS DIRECTED BY THE ENGINEER. ALL COST TO PROVIDE TEMPORARY WATER AND SEWER SERVICE TO EACH HOUSE AND BUSINESS WILL BE INCIDENTAL TO TEMPORARY WATER AND SEWER SERVICE.

AIR RELEASE VALVES ASSOCIATED WITH 3" WATER LINE AND THE 6" FSS LINE WERE FOUND IN THE FIELD. THE ADJACENT CITY OWNER HAS STATED HE HAS NEVER SEEN SUCH VALVES, AND THAT THE AREA BEEN BACKFILLED SEVERAL TIMES DUE ROUND SETTLEMENT.

HIGH WATER ELEV= 6' HURRICANE "FLOYD" 1999 INFOR FROM LEE GUTMAN 1 GARDNER POINT ELIZABETH CITY, NC
WATER SURFACE ELEV= 15' 10/17/2007 @ 12:30 P.M.

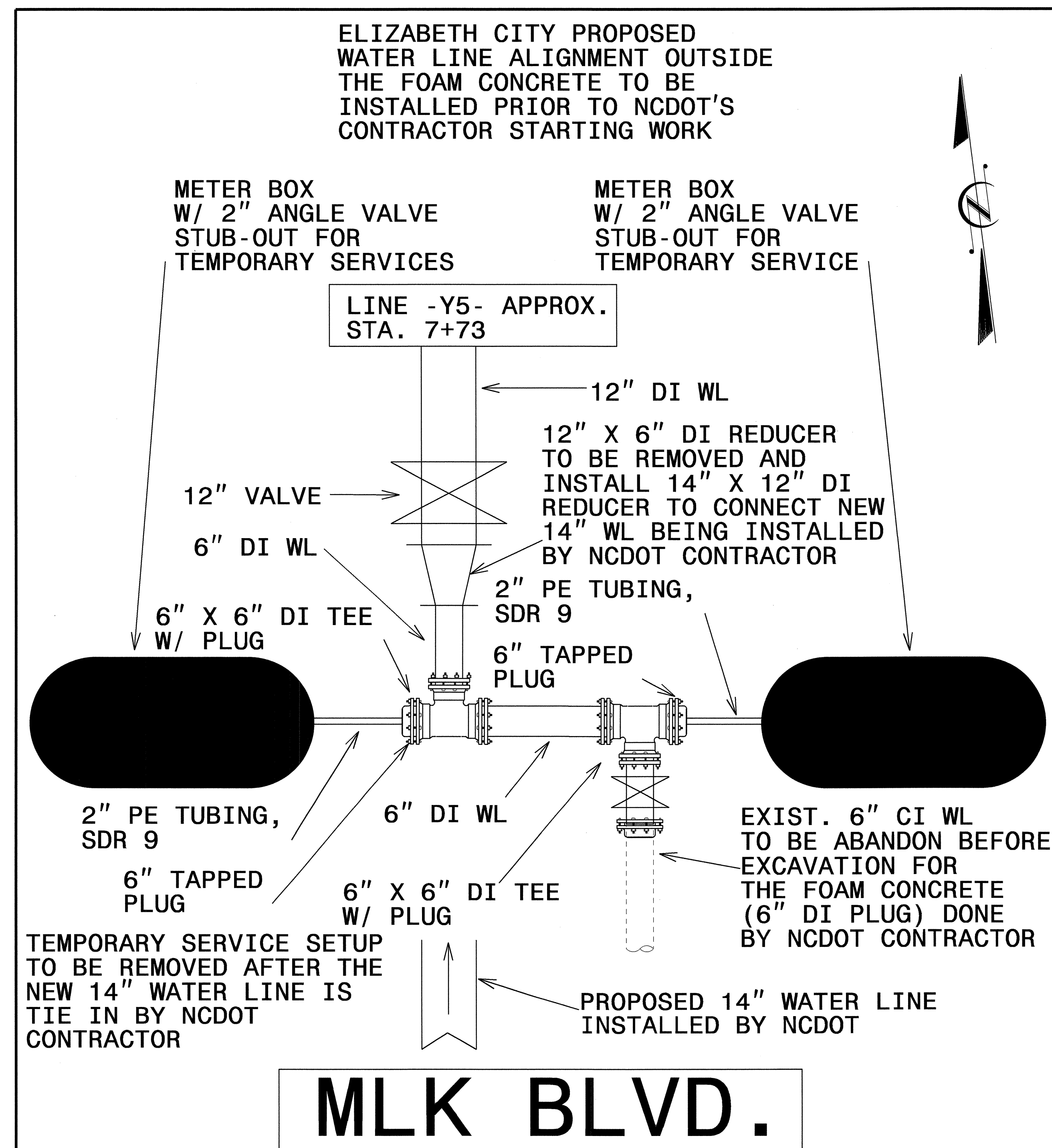
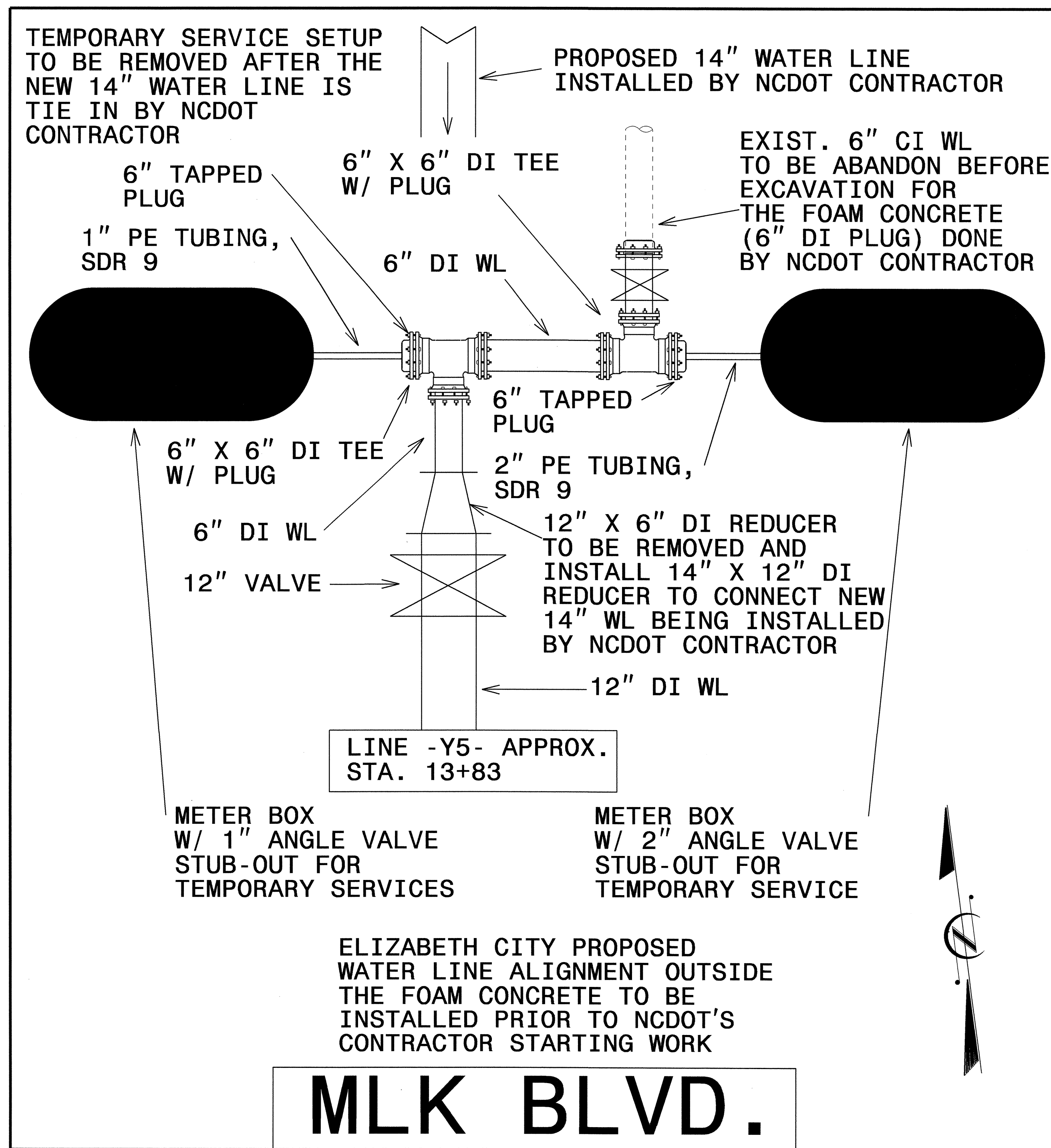
19-JAN-2011 15:43:43 Ut-UC19_psh-temp_serv.dgn

5/14/99

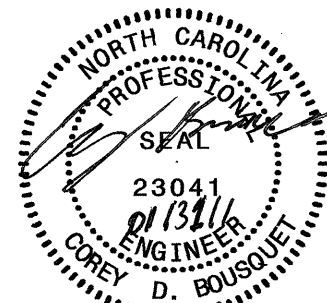
PROJECT REFERENCE NO.	SHEET NO.
U-4438	UC-20
DESIGNED BY: CDB	
DRAWN BY: CDB	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919)250-4128 FAX: (919)250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

ALL PROPOSED DI PLUGS AND FITTINGS ARE INCIDENTAL TO PROPOSED WATER LINES

UTILITY CONSTRUCTION

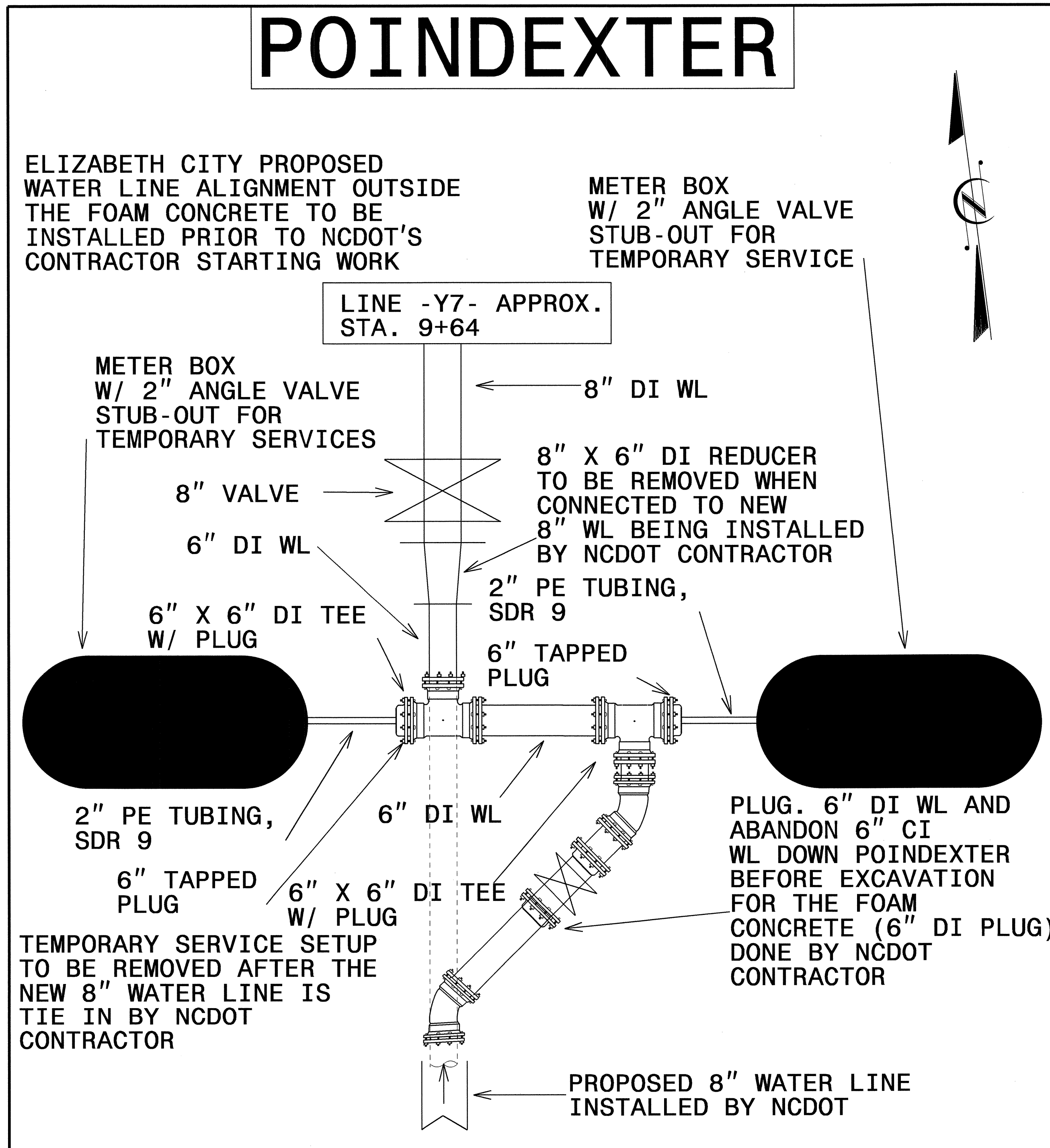
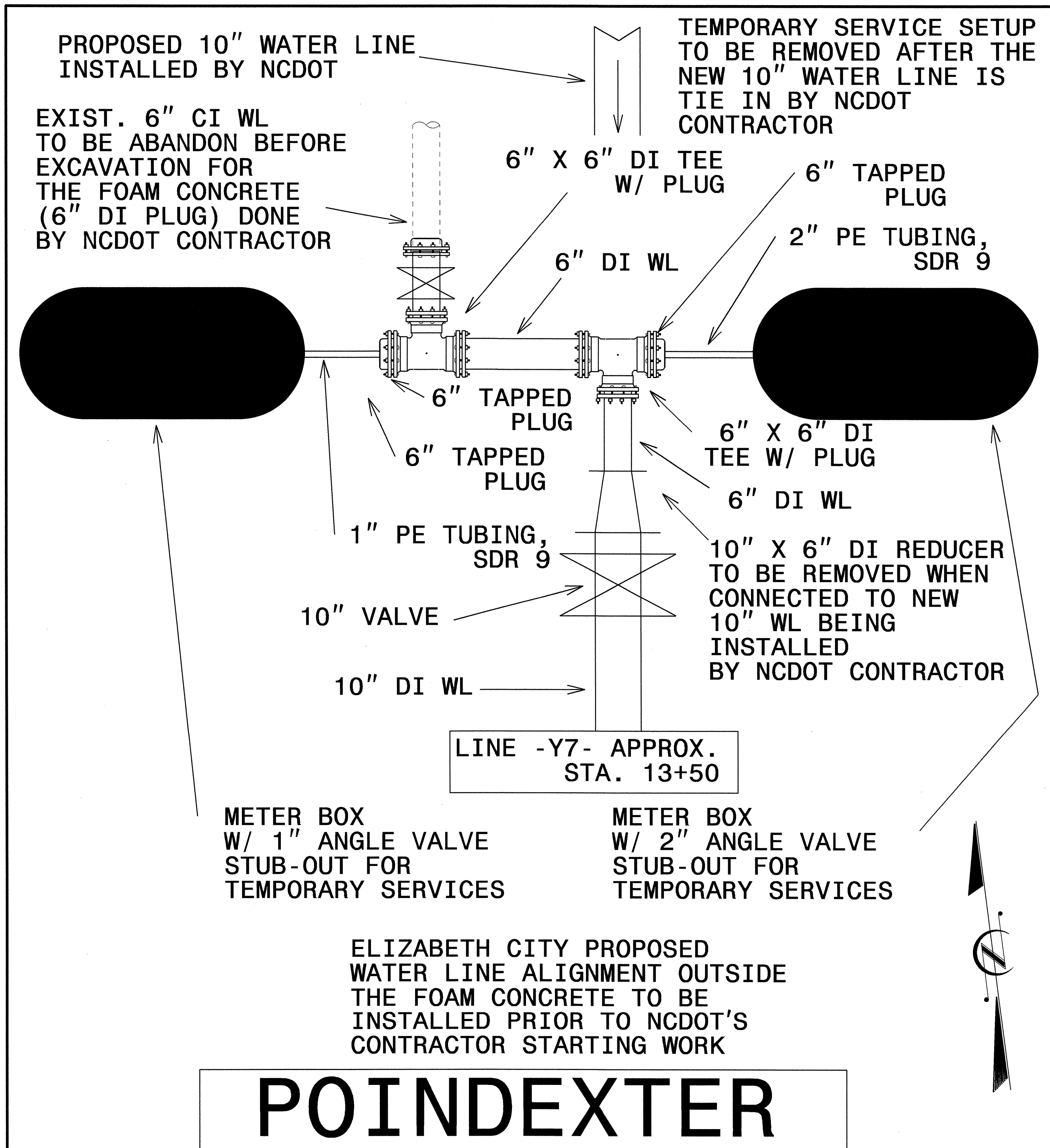


31-JAN-2011 07:29
t:\h.t.e.s\Projects\UC-4438-Ut-UC20_psh-temp_serv.dgn

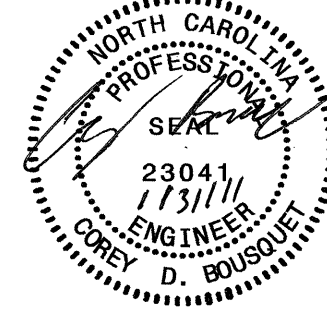
PROJECT REFERENCE NO. U-4438	SHEET NO. UC-21
DESIGNED BY: CDB	
DRAWN BY: CDB	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 250-4128 FAX: (919) 250-4119	

UTILITY CONSTRUCTION

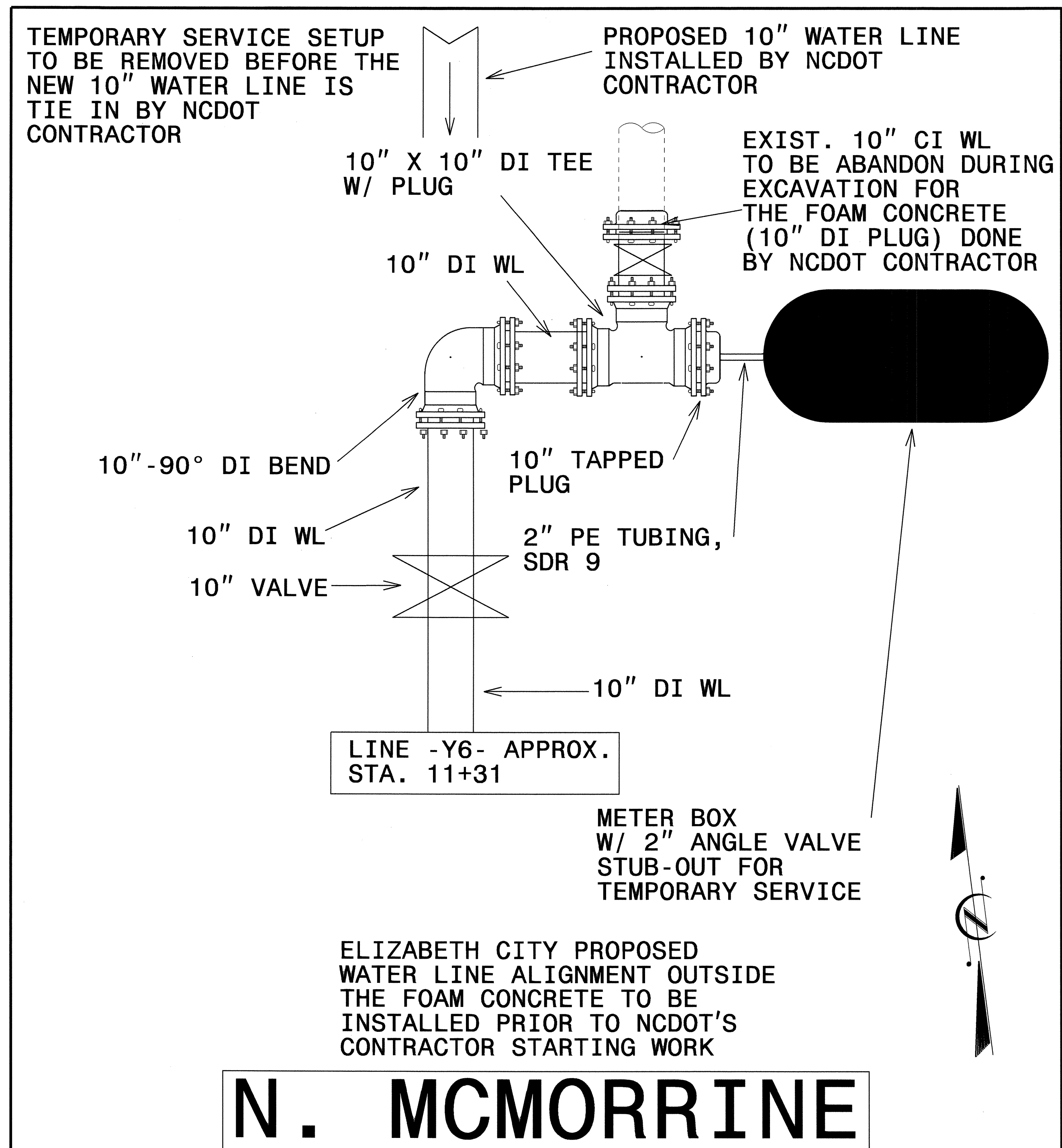
ALL PROPOSED DI PLUGS AND FITTINGS ARE INCIDENTAL TO PROPOSED WATER LINES



5/14/99

PROJECT REFERENCE NO.	SHEET NO.
U-4438	UC-22
DESIGNED BY: CDB	
DRAWN BY: CDB	
CHECKED BY: CDB	
APPROVED BY: CDB	
REVISED:	
	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919)250-4128 FAX: (919)250-4119	
UTILITY CONSTRUCTION PLANS ONLY	

ALL PROPOSED DI PLUGS AND FITTINGS ARE INCIDENTAL TO PROPOSED WATER LINES



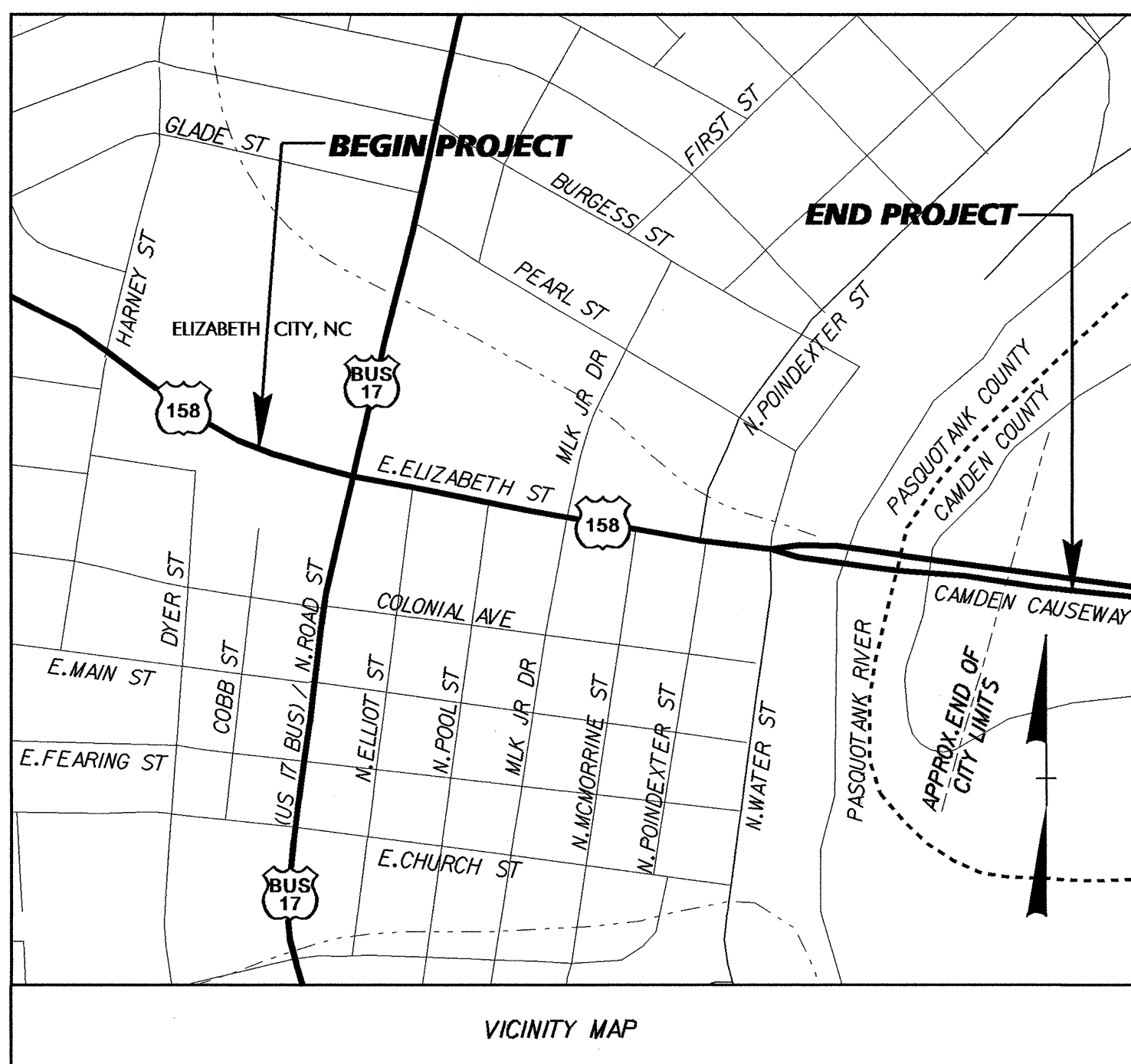
UTILITY CONSTRUCTION

31-JAN-2011 07:30
t:\i.t.\eg\Ncdot\11\1104438-Ut.-UC22-ps-h-temp-serv.dgn

09/08/99

TIP PROJECT: U-4438

SEE SHEET 1-A FOR INDEX OF SHEETS
SEE SHEET 1-B FOR CONVENTIONAL PLAN SHEET SYMBOLS



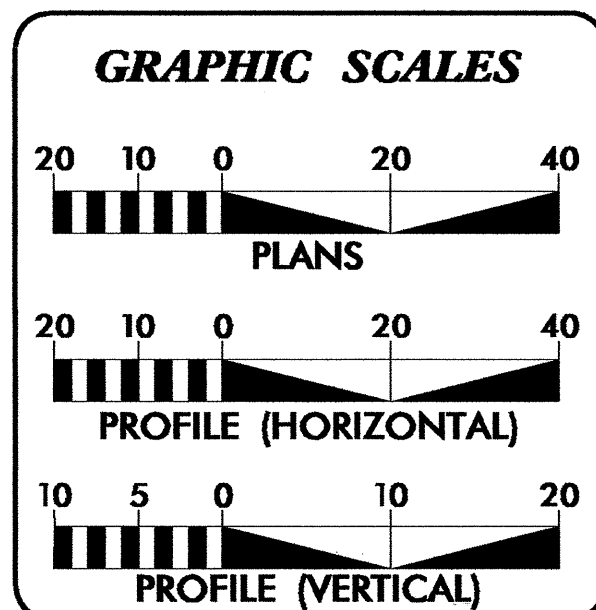
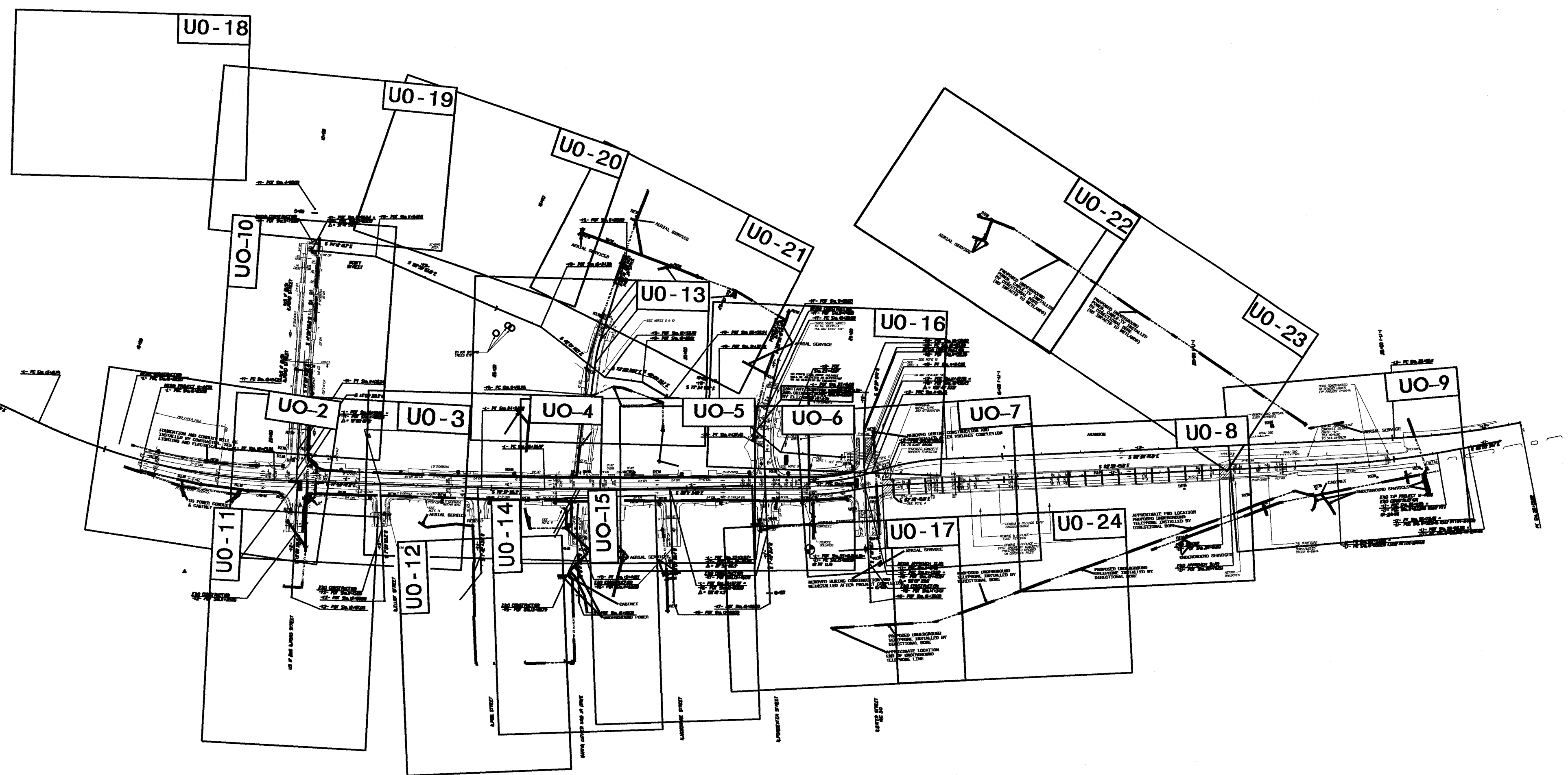
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

UTILITIES BY OTHERS PLANS PASQUOTANK & CAMDEN COUNTY

**LOCATION: US 158 (EAST ELIZABETH STREET) FROM US 17 BUSINESS
(NORTH ROAD STREET) TO EAST OF PASQUOTANK RIVER**

TYPE OF WORK: UTILITY RELOCATION

T.I.P. NO.	SHEET NO.
U-4438	UO-1

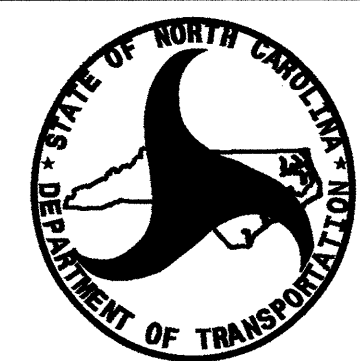


INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2 THRU UO-24	UTILITY BY OTHERS PLAN SHEETS

UTILITY OWNERS ON PROJECT

- (1) ELIZABETH CITY POWER
- (2) TIME WARNER CATV
- (3) CENTURY LINK
- (4) MEDIACOM CATV
- (5) PIEDMONT GAS
- (6) ELIZABETH CITY WATERSEWER



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

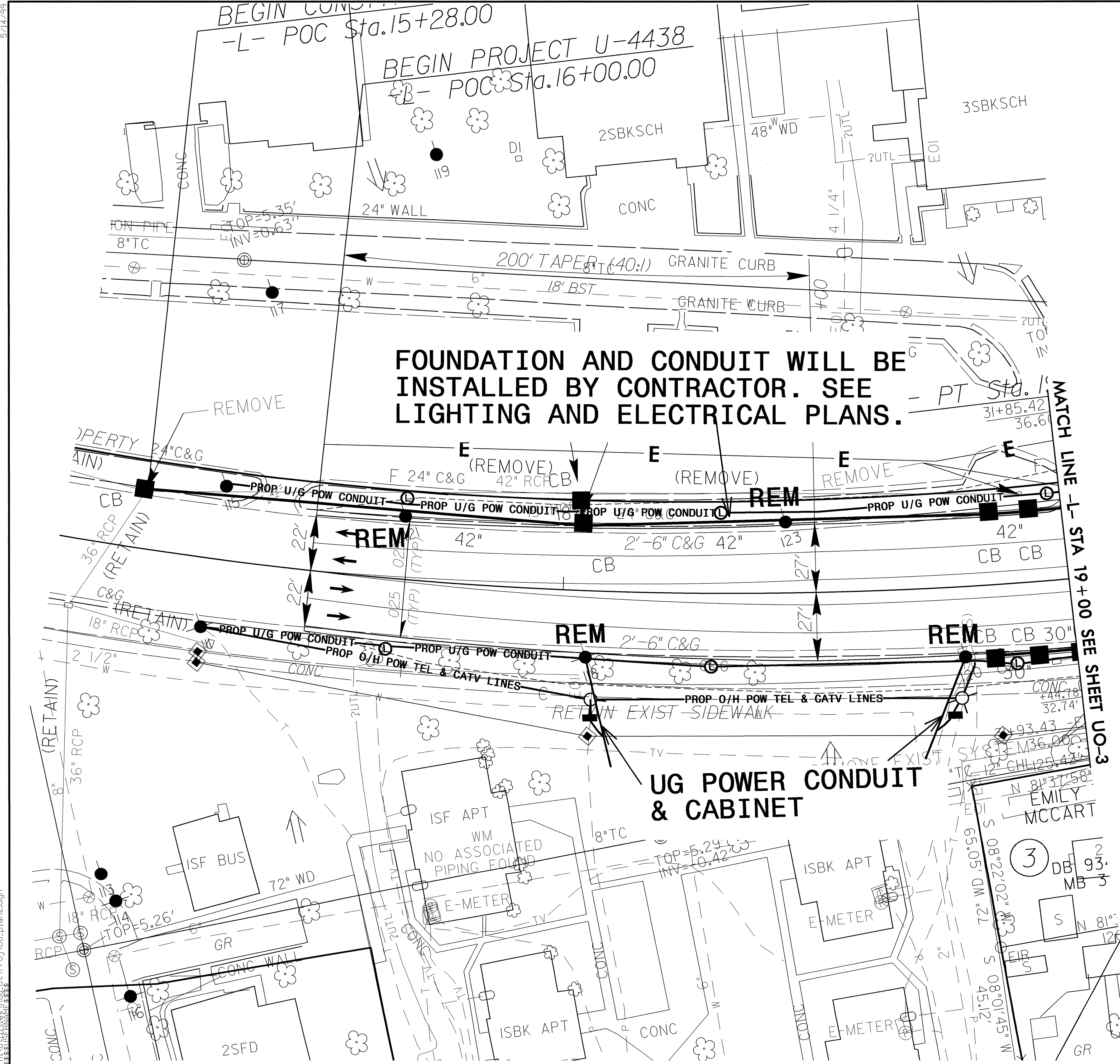
1591 MAIL SERVICES CENTER
RALEIGH NC 27699-1591
PHONE (919) 250-4128
FAX (919) 250-4119

Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Corey Bousquet, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
Stephanie Athey UTILITIES PROJECT DESIGNER

21-JAN-2011 10:51
R:\Utilities\Yrdy_Ut\Proj\U4438_Ut_Title_UO1_psh.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$

UTILITIES BY OTHERS

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



FOUNDATION AND CONDUIT WILL BE INSTALLED BY CONTRACTOR. SEE LIGHTING AND ELECTRICAL PLANS.

UG POWER CONDUIT & CABINET

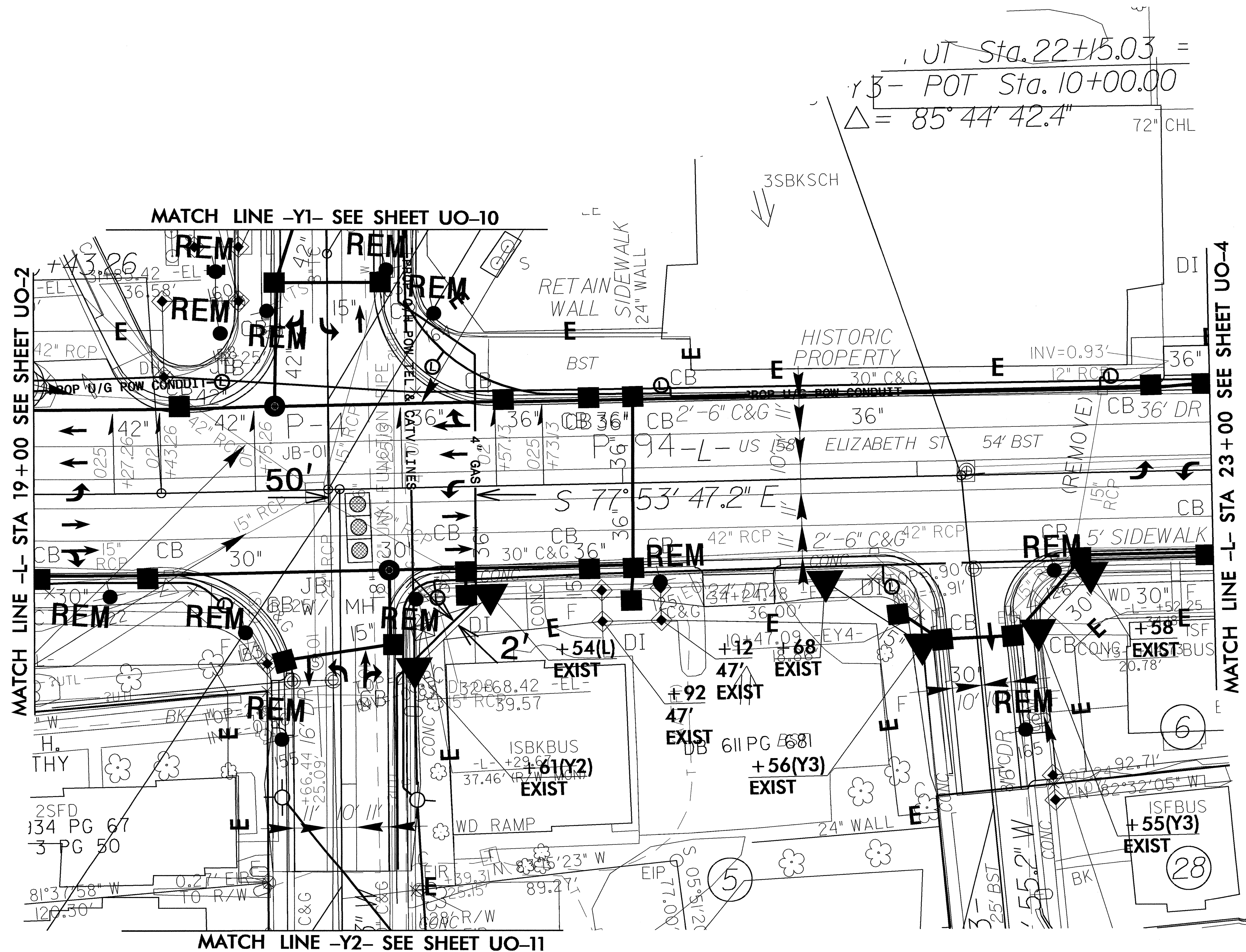
MATCH LINE -L- STA 19+00 SEE SHEET UO-3

5/14/99

07-DEC-2010 18:45
R:\Utilities\Fld\U\Proj\UO\plan2.dgn
4:53:33 PM

UTILITIES BY OTHERS

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

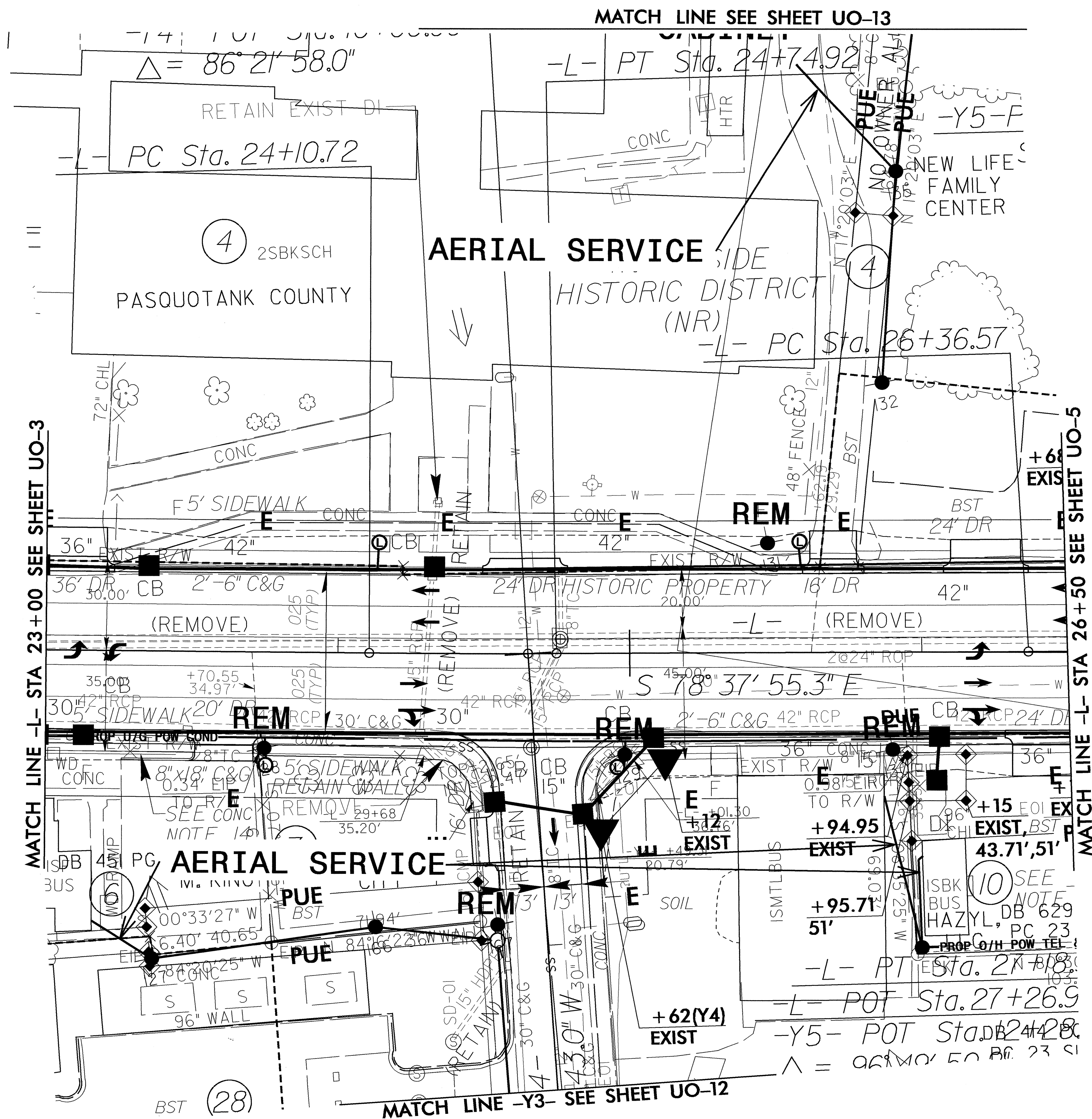


5/14/99

07_DEC-2010 16:18
C:\Projects\UO\plan3.dgn
S:\Projects\UO\plan3.dgn

UTILITIES BY OTHERS

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



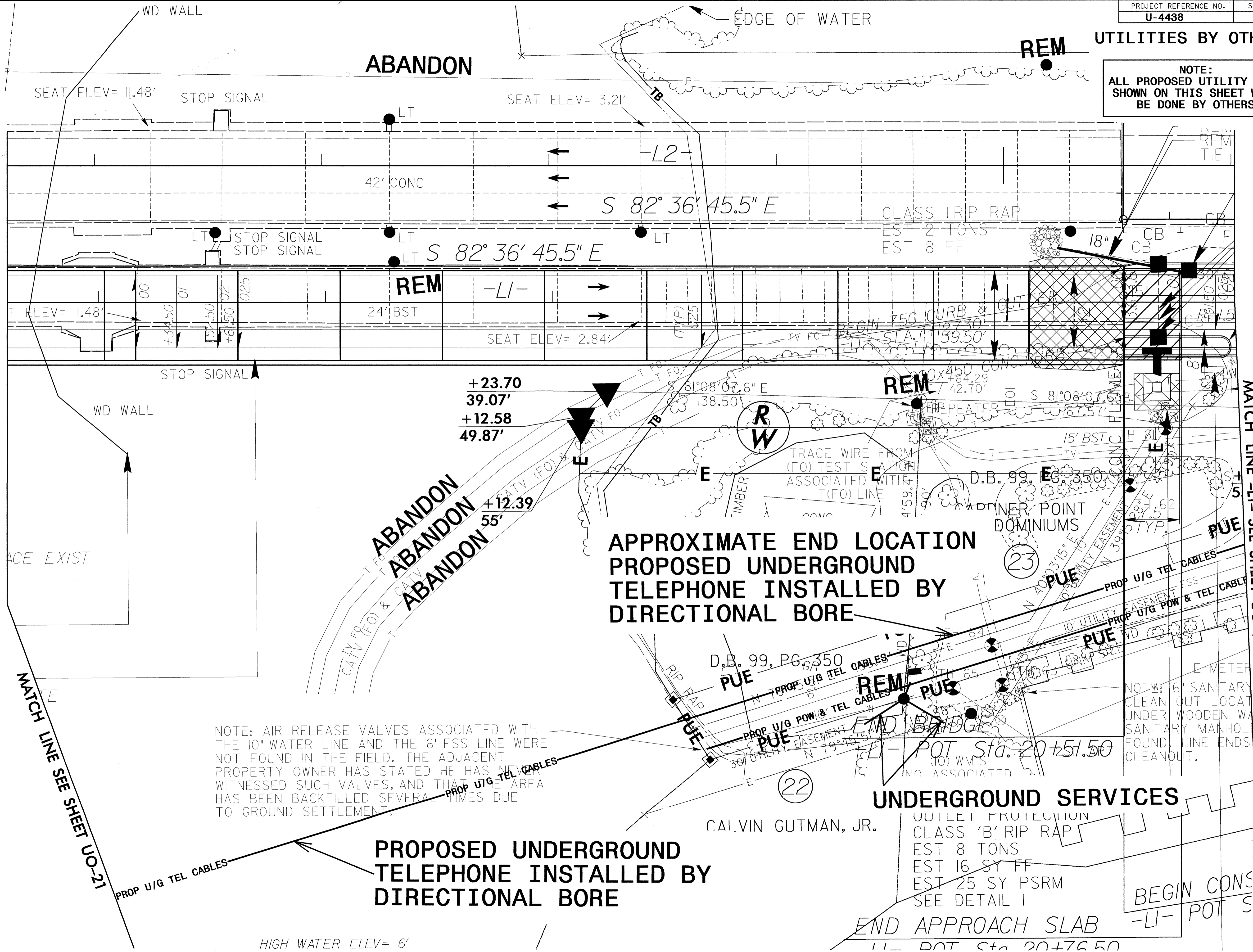
5/14/99
 07-DEC-2010 08:20 \\proj\UO.plan4.dgn
 46.56.31 TEL: 703-762-1111 FAX: 703-762-1112

UTILITIES BY OTHERS

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

MATCH LINE -L1- SEE SHEET UO-7

MATCH LINE -L1- SEE SHEET UO-9



APPROXIMATE END LOCATION
PROPOSED UNDERGROUND
TELEPHONE INSTALLED BY
DIRECTIONAL BORE

PROPOSED UNDERGROUND
TELEPHONE INSTALLED BY
DIRECTIONAL BORE

UNDERGROUND SERVICES

UTILITY PROTECTION
CLASS 'B' RIP RAP
EST 8 TONS
EST 16 SY FF
EST 25 SY PSRM
SEE DETAIL I

NOTE: AIR RELEASE VALVES ASSOCIATED WITH
THE 10" WATER LINE AND THE 6" FSS LINE WERE
NOT FOUND IN THE FIELD. THE ADJACENT
PROPERTY OWNER HAS STATED HE HAS NEVER
WITNESSED SUCH VALVES, AND THAT THE AREA
HAS BEEN BACKFILLED SEVERAL TIMES DUE
TO GROUND SETTLEMENT.

NOTE: 6" SANITARY
CLEAN OUT LOCATED
UNDER WOODEN WALL
SANITARY MANHOLE
FOUND. LINE ENDS
CLEANOUT.

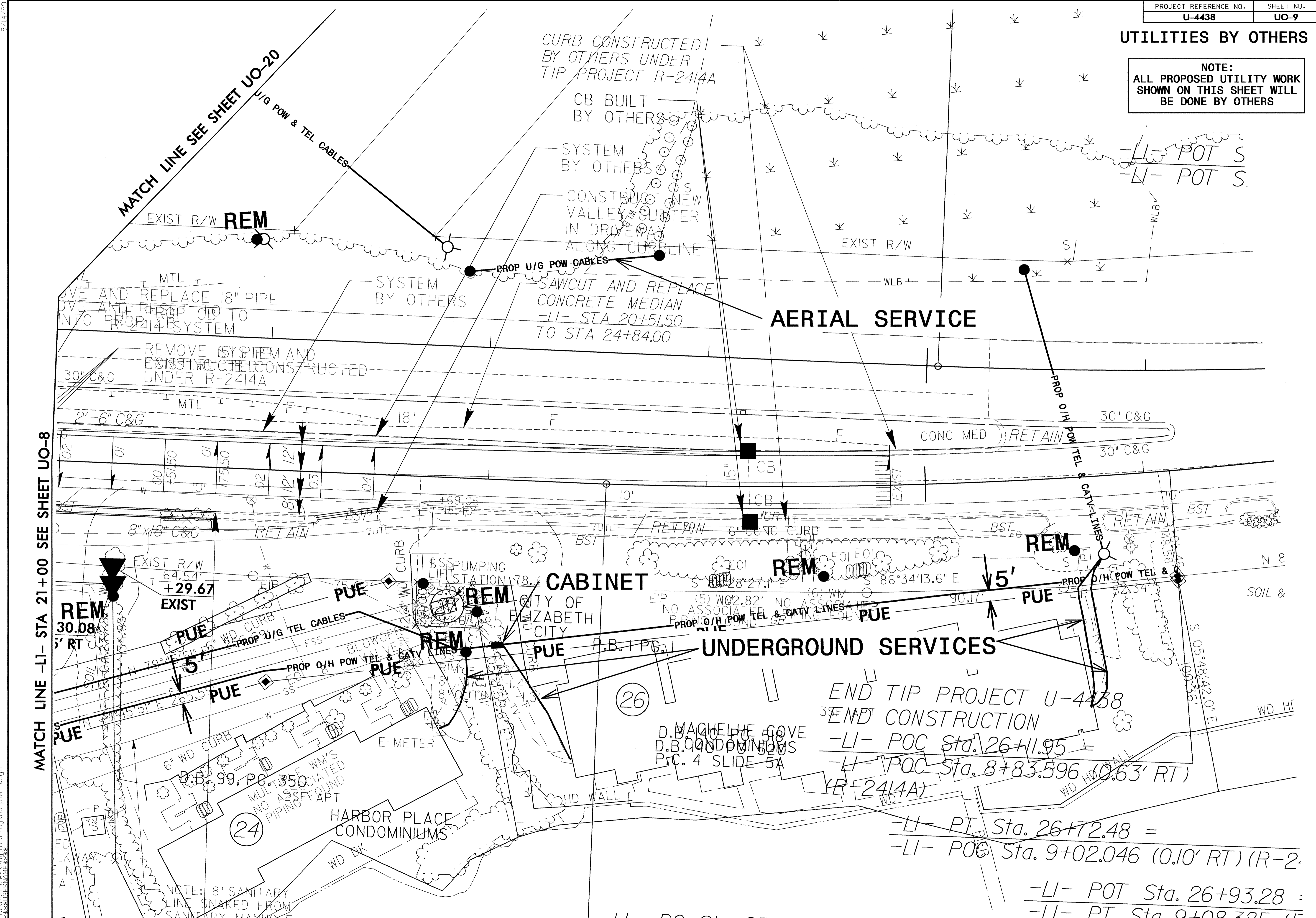
5/14/99

07-DEC-2010 18:28
R:\Utilities\Projects\U4438-U0-U0-plm8.dgn

HIGH WATER ELEV= 6'

UTILITIES BY OTHERS

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



MATCH LINE SEE SHEET UO-20
U/G POW & TEL CABLES

MATCH LINE -L1- STA 21+00 SEE SHEET UO-8

CURB CONSTRUCTED BY OTHERS UNDER TIP PROJECT R-2414A

CB BUILT BY OTHERS

SYSTEM BY OTHERS

CONSTRUCT NEW VALLEY COUNTER IN DRIVEWAY ALONG CURBLINE

SAWCUT AND REPLACE CONCRETE MEDIAN -L1- STA 20+51.50 TO STA 24+84.00

AERIAL SERVICE

CABINET

UNDERGROUND SERVICES

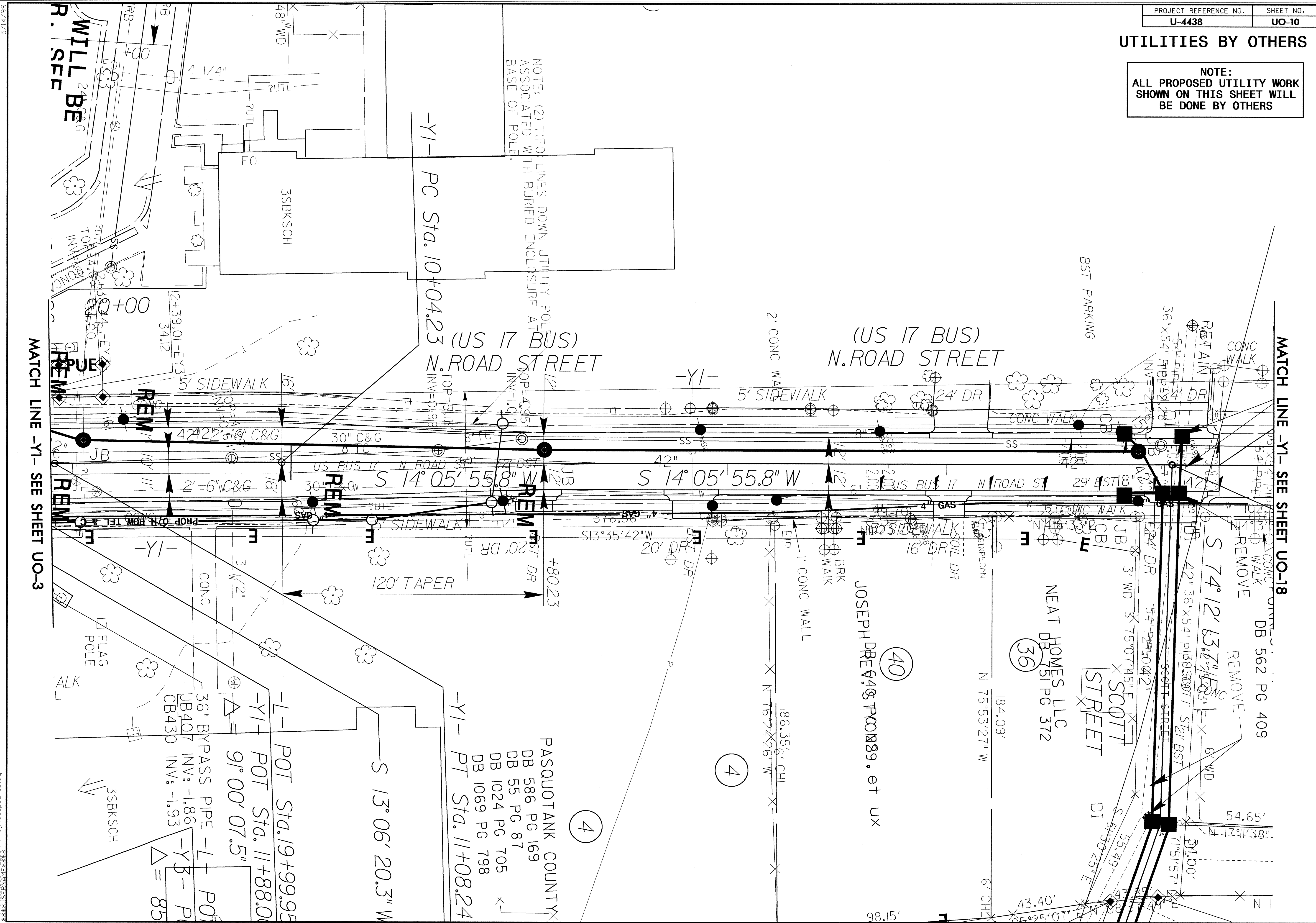
END TIP PROJECT U-4438
END CONSTRUCTION

- L1- POC Sta. 26+11.95
- L1- POC Sta. 8+83.596 (0.63' RT)
- L1- PT Sta. 26+72.48 =
- L1- POC Sta. 9+02.046 (0.10' RT) (R-2)
- L1- POT Sta. 26+93.28
- L1- PT Sta. 9+09.305

5/14/99
07-DEC-2010 18:32
R:\Utilities\Uo\Uo-9\Uo-9.pln9.dgn

UTILITIES BY OTHERS

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



NOTE: (2) T(FO) LINES DOWN UTILITY POLE ASSOCIATED WITH BURIED ENCLOSURE AT BASE OF POLE.

-Y1- PC Std. 10+04.23

(US 17 BUS) N. ROAD STREET

(US 17 BUS) N. ROAD STREET

S 14° 05' 55.8" W

MATCH LINE -Y1- SEE SHEET UO-18

MATCH LINE -Y1- SEE SHEET UO-3

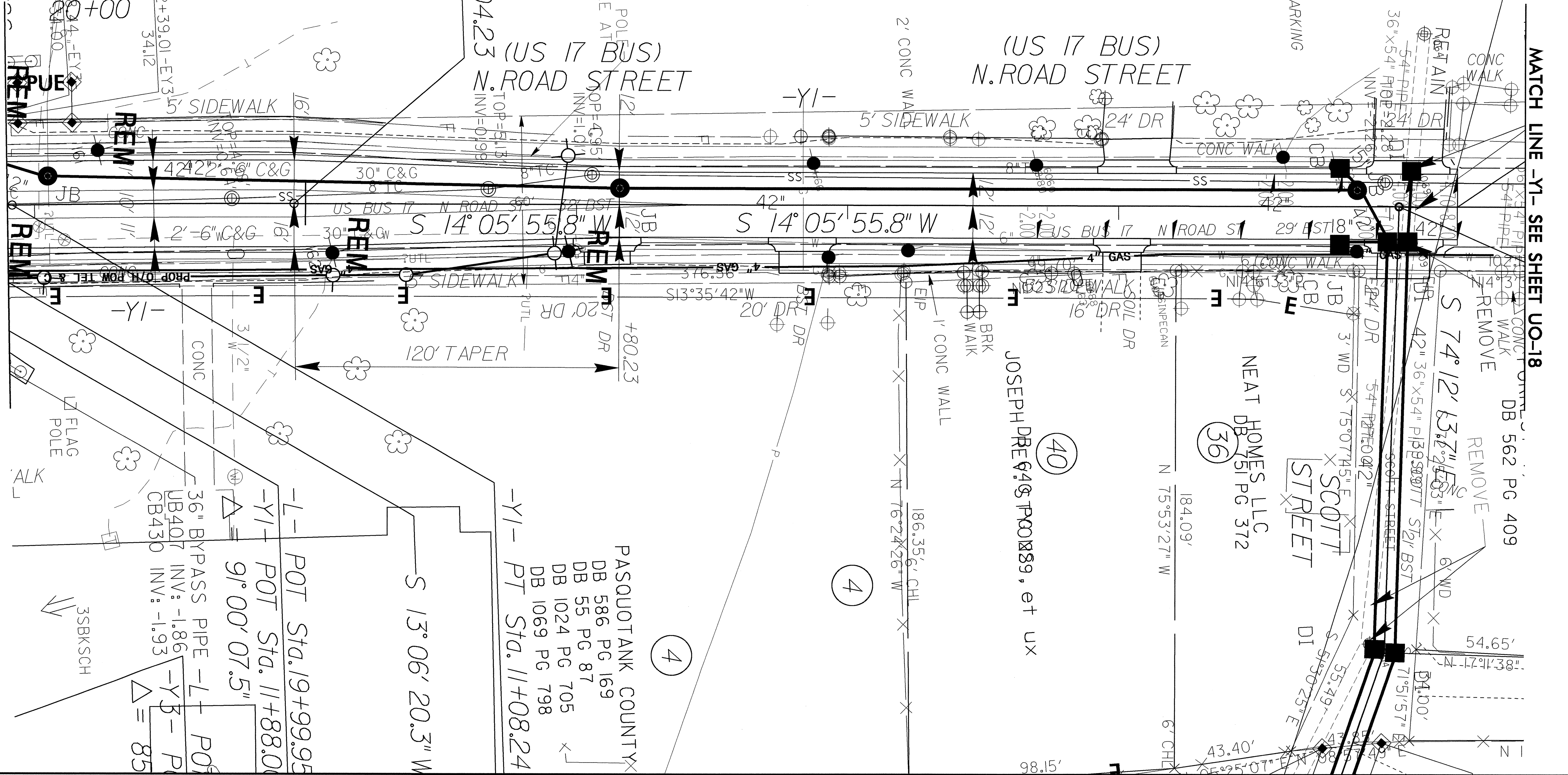
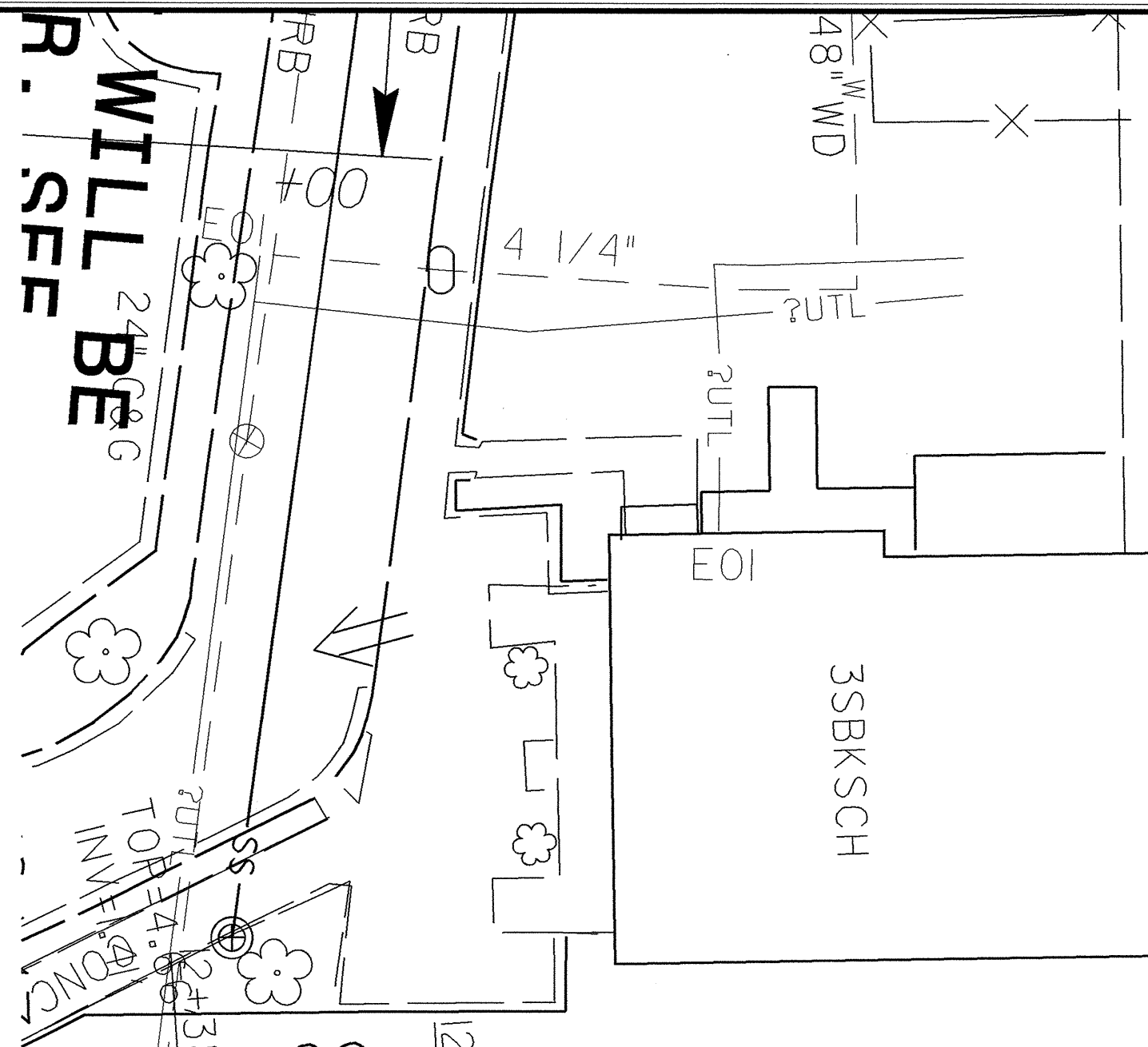
-Y1- PT Std. 11+08.24

-Y1- POT Std. 11+88.00
9° 00' 07.5"

-Y1- POT Std. 19+99.95
36" BYPASS PIPE -L- POT

PASQUOTANK COUNTY
DB 586 PG 169
DB 55 PG 87
DB 1024 PG 705
DB 1069 PG 798

S 13° 06' 20.3" W



5/14/99

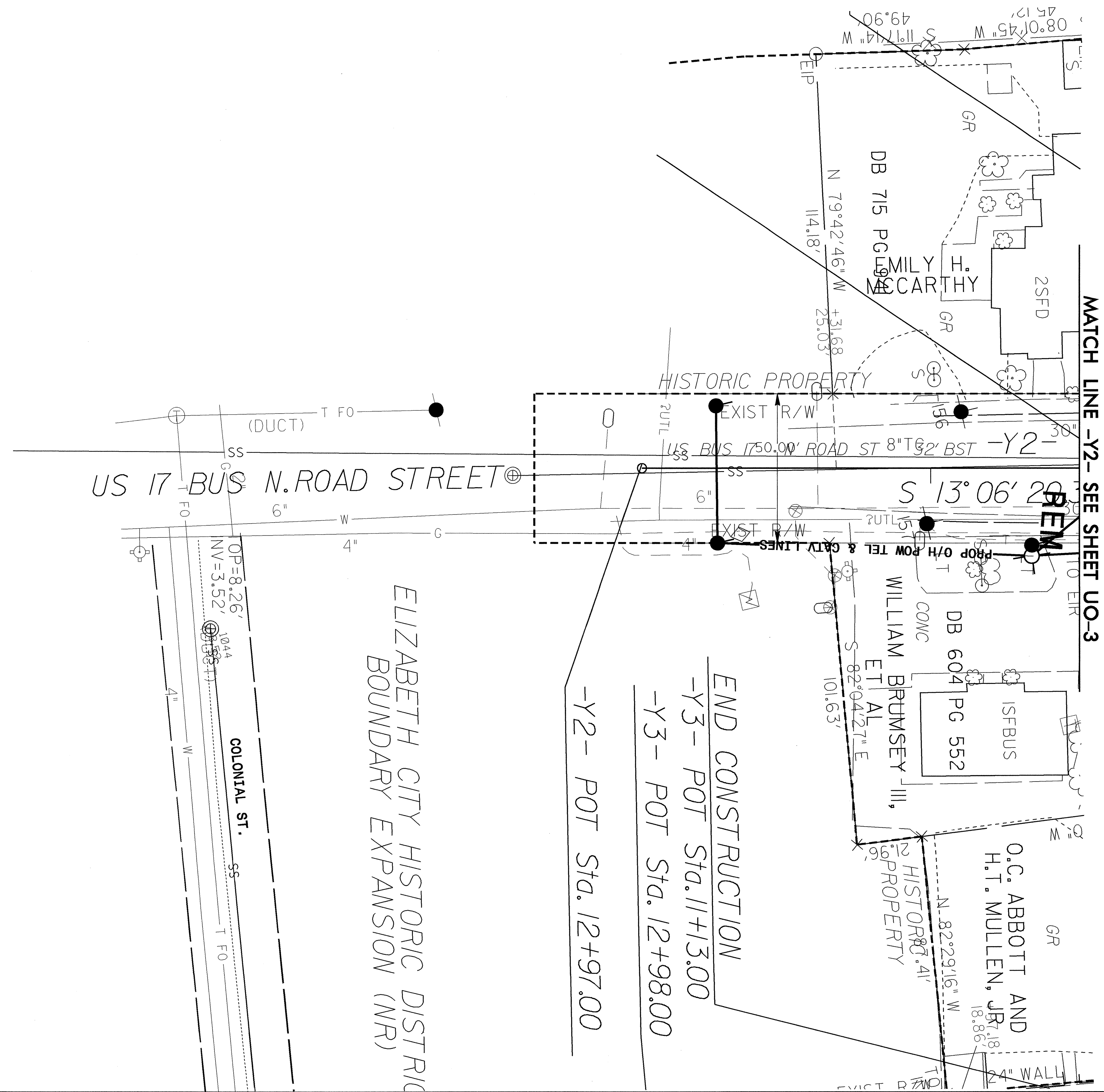
P:\DEC-2000\5724\1\PROJ\UO-10.pln

CG1

81

UTILITIES BY OTHERS

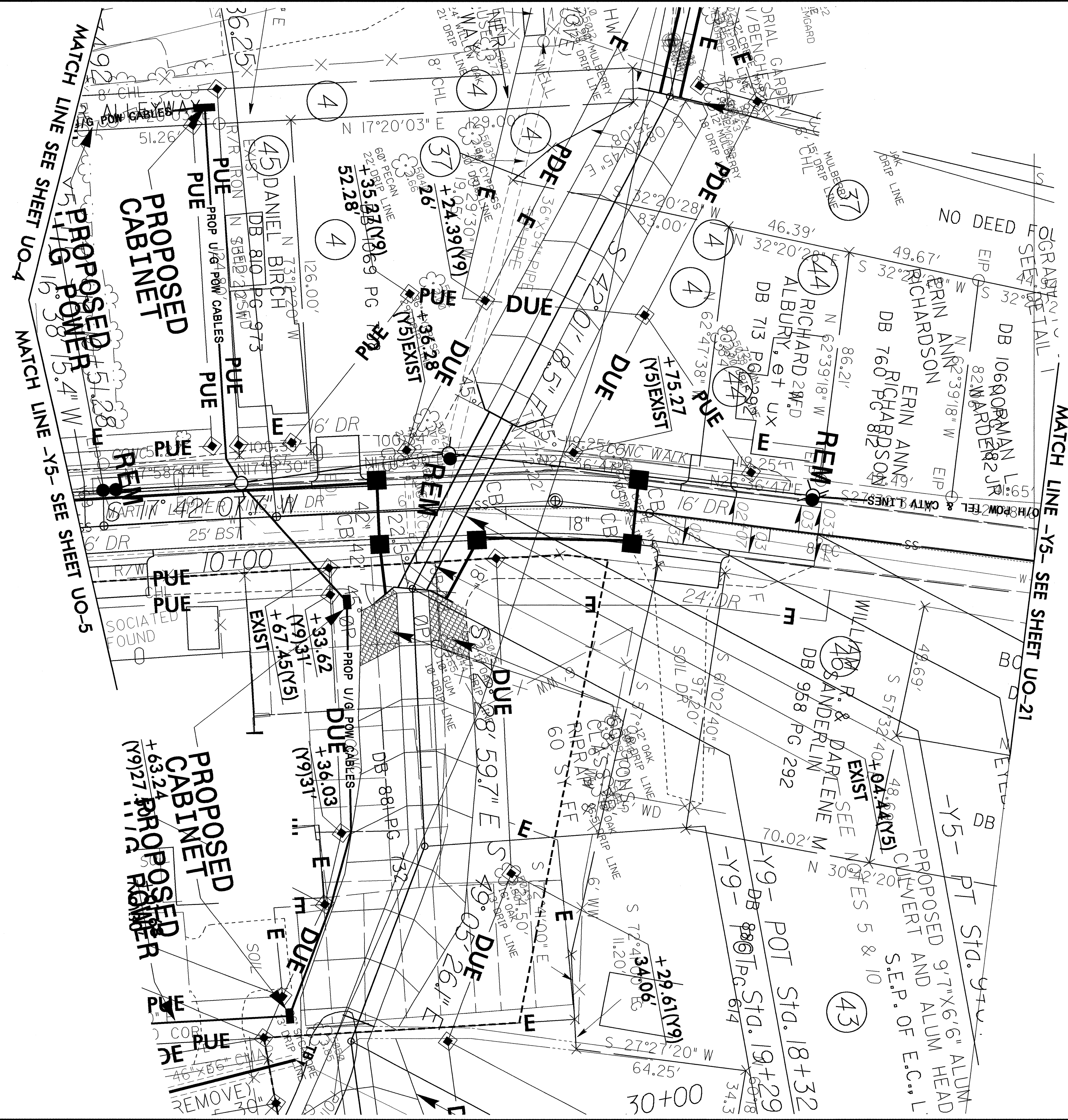
NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS



5/14/99

UTILITIES BY OTHERS

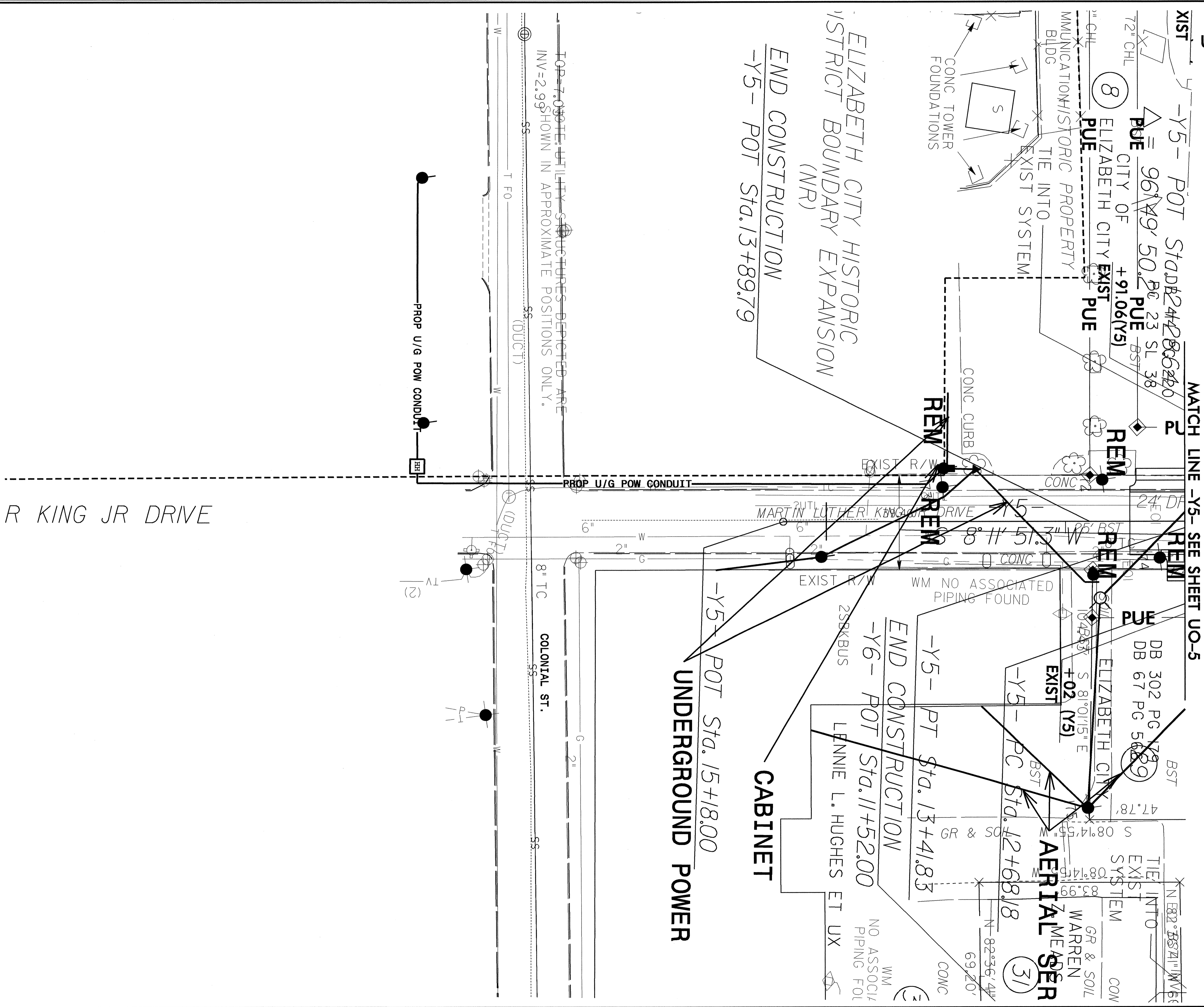
NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS



5/14/99

UTILITIES BY OTHERS

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



TOP-ZONING UTILITY STRUCTURES DEPICTED ARE
 INV=2.99 SHOWN IN APPROXIMATE POSITIONS ONLY.

R KING JR DRIVE

COLONIAL ST.

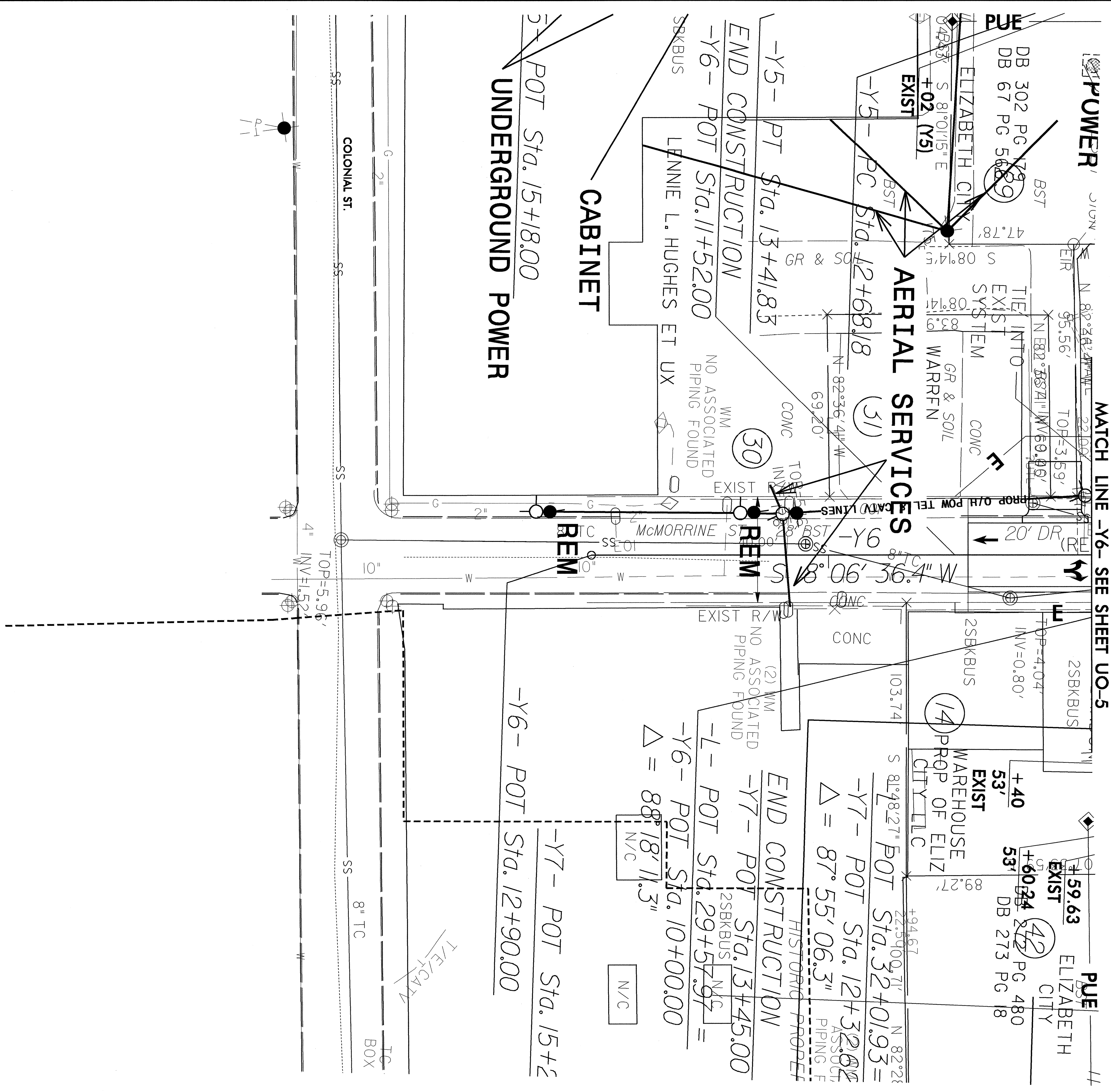
UNDERGROUND POWER

CABINET

AERIAL MEAS

UTILITIES BY OTHERS

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

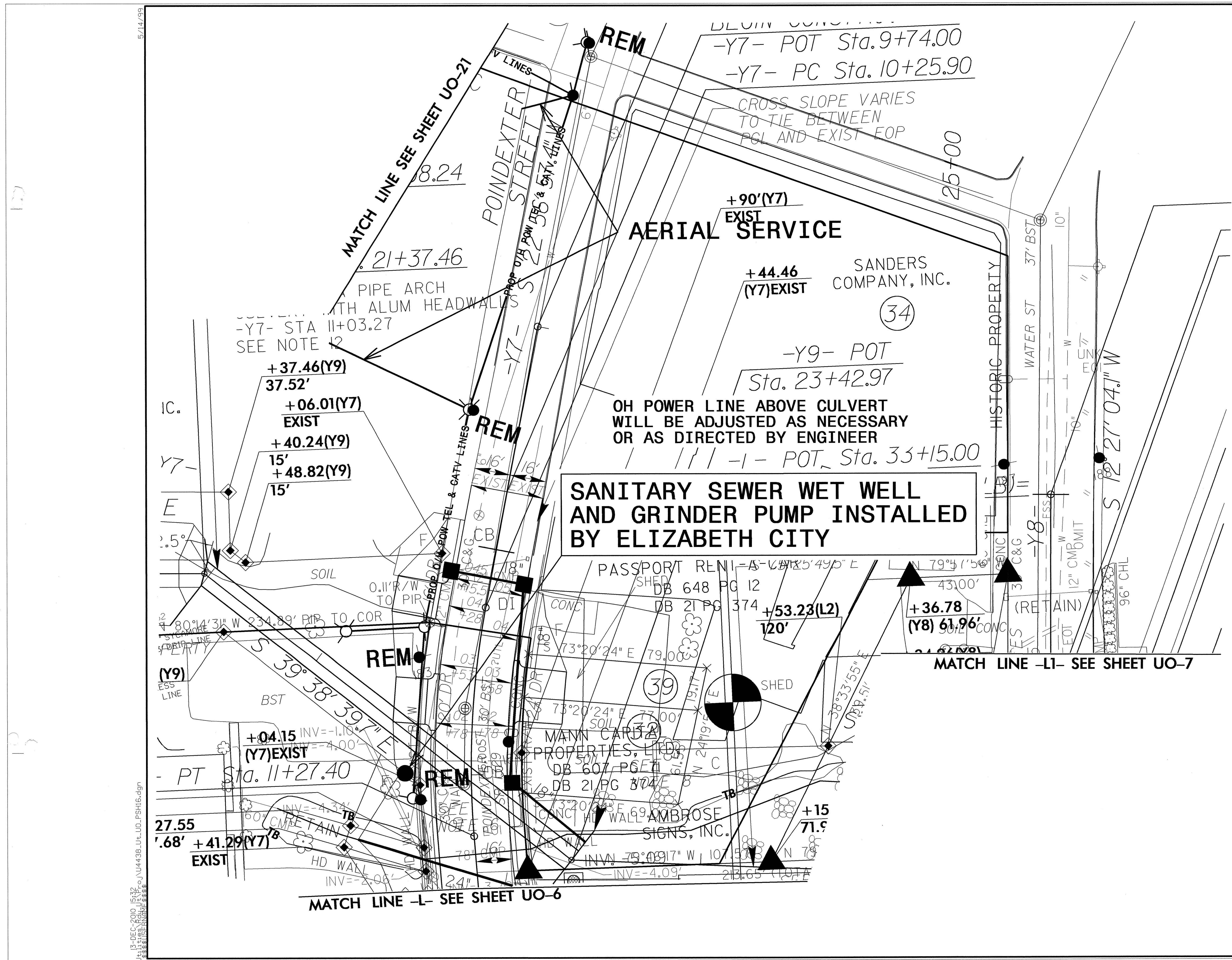


5/14/99

R:\01-C-2010-18-41\13\Pro\UO-plan15.dgn
3:33:53 PM 5/14/99

UTILITIES BY OTHERS

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



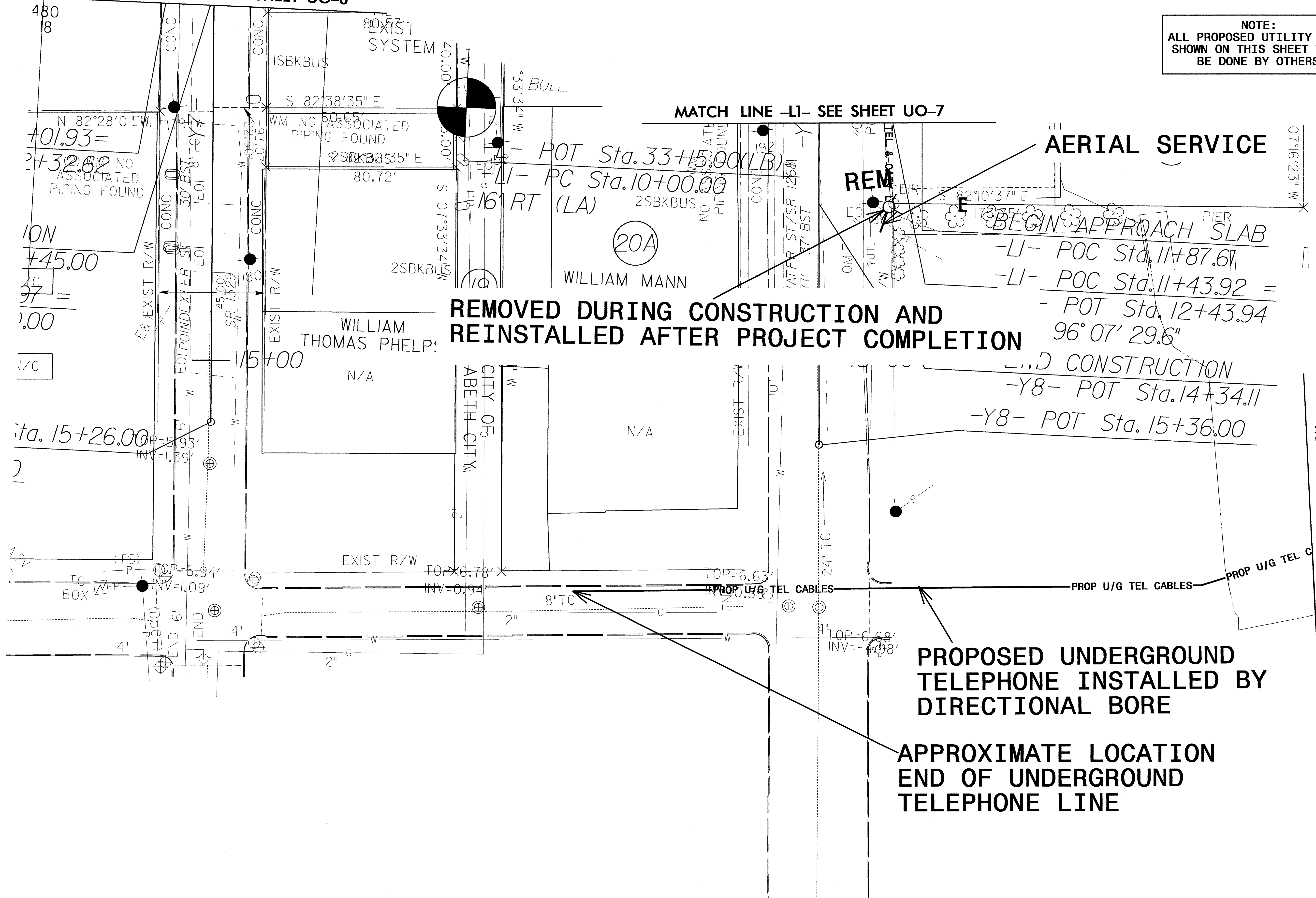
5/14/99
 13-DEC-2010 15:32
 R:\Utilities\Projects\U04438-U0-PSH16.dgn

UTILITIES BY OTHERS

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

MATCH LINE -L- SEE SHEET UO-6

MATCH LINE -L1- SEE SHEET UO-7



PROPOSED UNDERGROUND TELEPHONE INSTALLED BY DIRECTIONAL BORE

APPROXIMATE LOCATION END OF UNDERGROUND TELEPHONE LINE

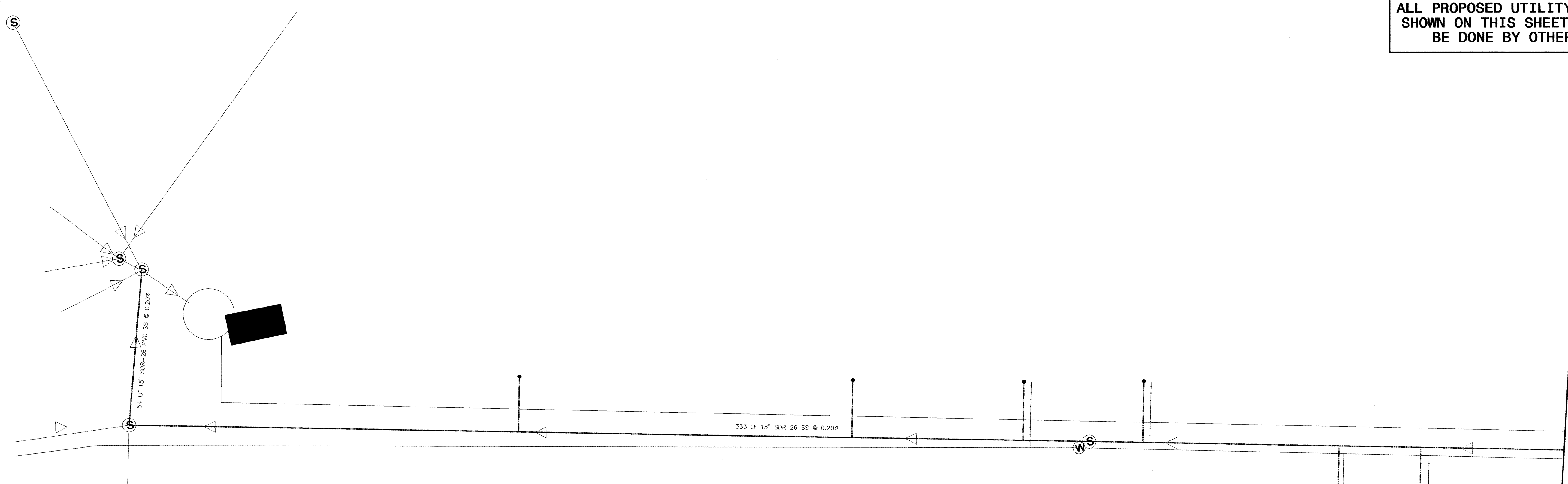
MATCH LINE SEE SHEET UO-24

5/14/99

13-JAN-2010 09:49
R:\Utilities\Projects\U4438-U0-U0-ps17.dgn

UTILITIES BY OTHERS

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



ELIZABETH CITY WATER AND SEWER RELOCATION WEST OF ROAD STREET ON PEARL STREET
SEE SHEETS U0-24A THRU U0-24C

MATCHLINE SEE SHEET U0-19

5/14/99

R:\13-DEC-2010_1618
R:\Utilities\Road\U0\Proj\U4438-U0-U0_PSH18.dgn

UTILITIES BY OTHERS

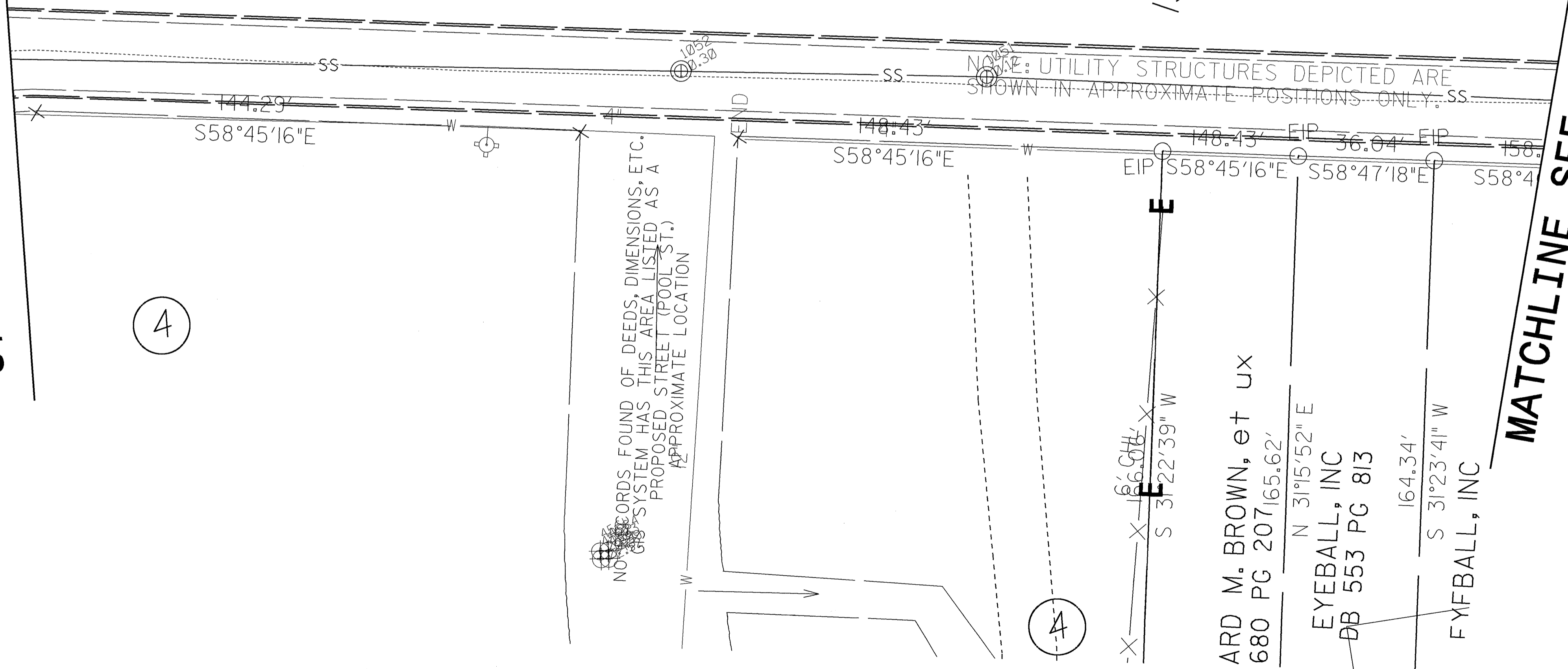
**NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS**

5/14/99

R:\Utilities\Road\U0\Proj\U4438-Ut_U0_PSH20.dgn
13-DEC-2010 15:43
R:\Utilities\Road\U0\Proj\U4438-Ut_U0_PSH20.dgn

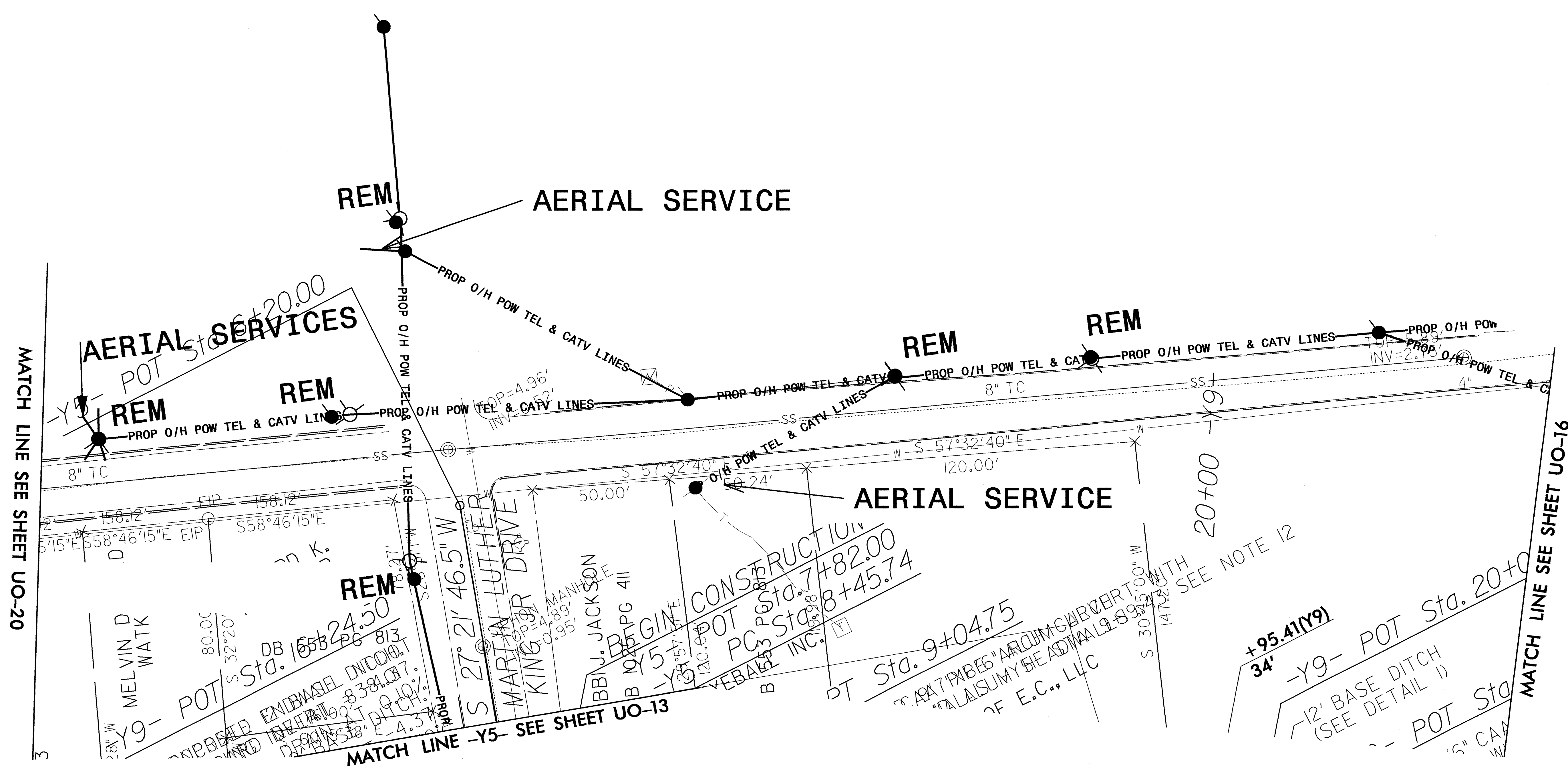
MATCHLINE SEE SHEET U0-19

MATCHLINE SEE SHEET U0-21



UTILITIES BY OTHERS

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

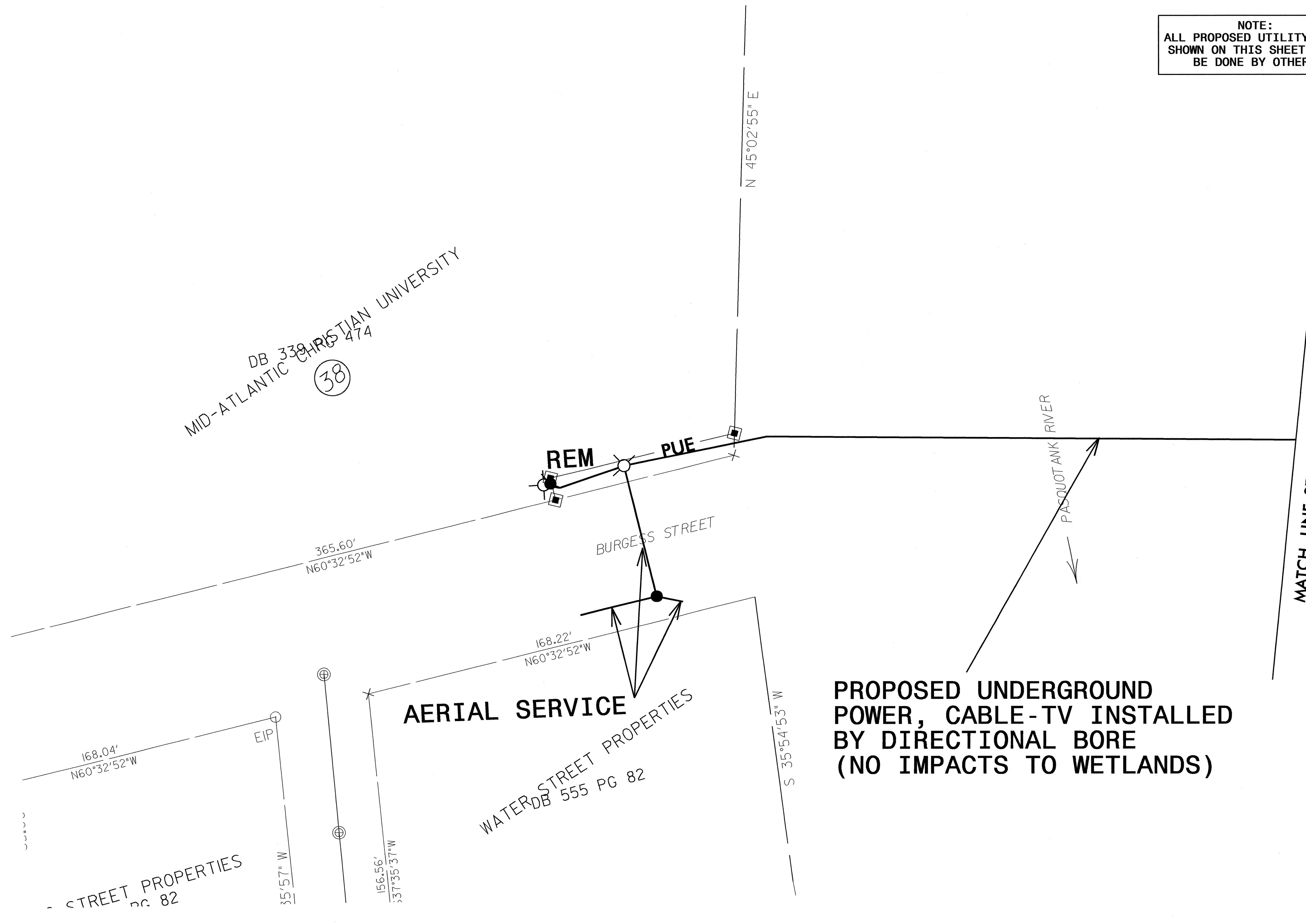


5/14/99

R:\Utilities\Road\U04438-Ut_U0_PSH21.dgn
25-JAN-2011 08:49
R:\Utilities\Road\U04438-Ut_U0_PSH21.dgn

UTILITIES BY OTHERS

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



**PROPOSED UNDERGROUND
POWER, CABLE-TV INSTALLED
BY DIRECTIONAL BORE
(NO IMPACTS TO WETLANDS)**

MATCH LINE SEE SHEET UO-23

MID-ATLANTIC CHRISTIAN UNIVERSITY
DB 339 CHR 474
(38)

AERIAL SERVICE
WATER STREET PROPERTIES
DB 555 PG 82

STREET PROPERTIES
PG 82

5/14/99
R:\Utilities\Road\Uo\Uo4438-Uo_Uo_PSH22.dgn
25-JAN-2010 08:50
\$\$\$\$\$

UTILITIES BY OTHERS

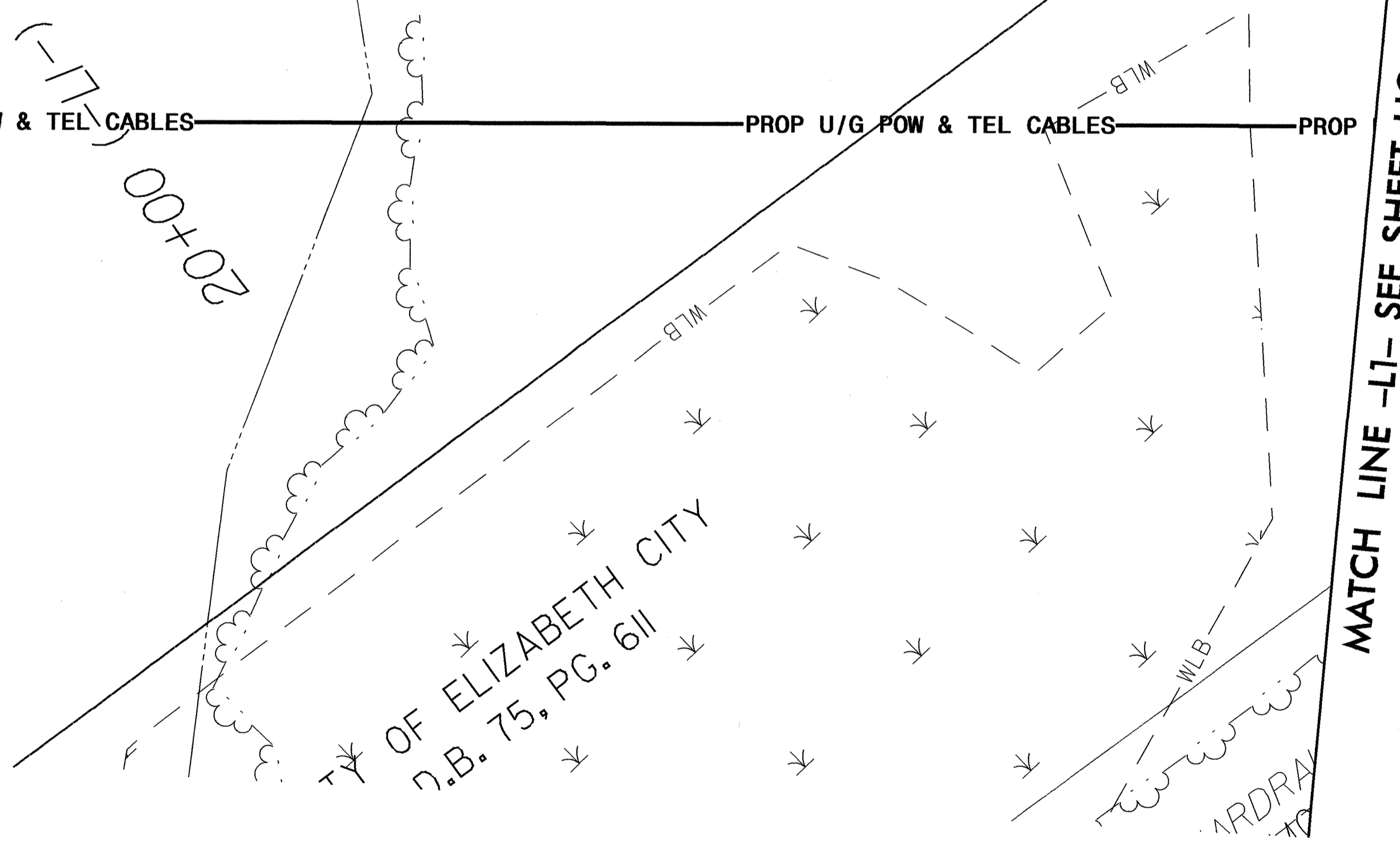
NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS

MATCH LINE SEE SHEET UO-22

ABLES — PROP U/G POW & TEL CABLES — PROP U/G POW & TEL CABLES — PROP U/G POW & TEL CABLES — PROP U/G POW & TEL CABLES — PROP

**PROPOSED UNDERGROUND
POWER, CABLE-TV INSTALLED
BY DIRECTIONAL BORE
(NO IMPACTS TO WETLANDS)**

PASQUOTANK RIVER



MATCH LINE -L1- SEE SHEET UO-9

UTILITIES BY OTHERS

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

5/14/99

R:\U0\115158\PROJECTS\U0\U04438-U0-U0_PSH21.dgn
07-DEC-2010 20:21
PASQUOTANK COUNTY

**PROPOSED UNDERGROUND
TELEPHONE INSTALLED BY
DIRECTIONAL BORE**

REMOVE & REPLACE
EXIST FENDERS

REMOVE & REPLACE
EXIST BRIDGE W/ CONCRETE
PRESTRESSED GIRDERS
ON CONCRETE PILES

MATCH LINE SEE SHEET UO-8

PROP U/G TEL CABLES

PASQUOTANK RIVER

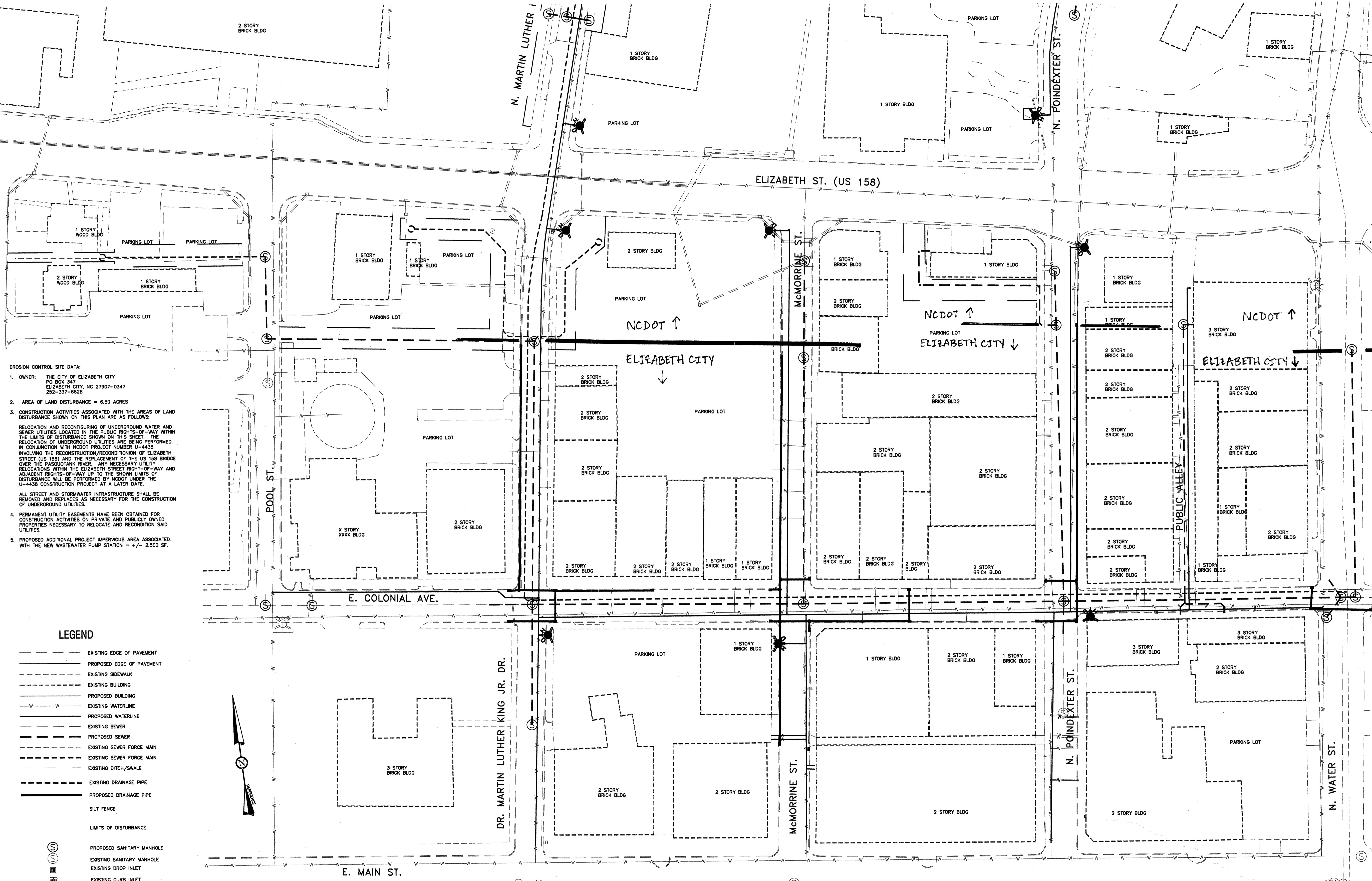
PASQUOTANK COUNTY
CAMDEN COUNTY

MATCH LINE SEE SHEET UO-17

CABLES

UTILITY RELOCATION FOR NCDOT U-4438

ELIZABETH CITY
 PASQUOTANK COUNTY
 NORTH CAROLINA

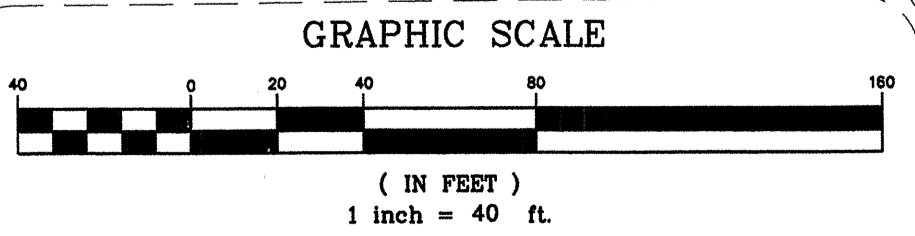


EROSION CONTROL SITE DATA:

- OWNER: THE CITY OF ELIZABETH CITY
 PO BOX 347
 ELIZABETH CITY, NC 27907-0347
 252-337-6628
- AREA OF LAND DISTURBANCE = 6.50 ACRES
- CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE AREAS OF LAND DISTURBANCE SHOWN ON THIS PLAN ARE AS FOLLOWS:
 RELOCATION AND RECONFIGURING OF UNDERGROUND WATER AND SEWER UTILITIES LOCATED IN THE PUBLIC RIGHTS-OF-WAY WITHIN THE LIMITS OF DISTURBANCE SHOWN ON THIS SHEET. THE RELOCATION OF UNDERGROUND UTILITIES ARE BEING PERFORMED IN CONJUNCTION WITH NCDOT PROJECT NUMBER U-4438 INVOLVING THE RECONSTRUCTION/RECONDITIONING OF ELIZABETH STREET (US 158) AND THE REPLACEMENT OF THE US 158 BRIDGE OVER THE PASQUOTANK RIVER. ANY NECESSARY UTILITY RELOCATIONS WITHIN THE ELIZABETH STREET RIGHT-OF-WAY AND ADJACENT RIGHTS-OF-WAY UP TO THE SHOWN LIMITS OF DISTURBANCE WILL BE PERFORMED BY NCDOT UNDER THE U-4438 CONSTRUCTION PROJECT AT A LATER DATE.
 ALL STREET AND STORMWATER INFRASTRUCTURE SHALL BE REMOVED AND REPLACES AS NECESSARY FOR THE CONSTRUCTION OF UNDERGROUND UTILITIES.
- PERMANENT UTILITY EASEMENTS HAVE BEEN OBTAINED FOR CONSTRUCTION ACTIVITIES ON PRIVATE AND PUBLICLY OWNED PROPERTIES NECESSARY TO RELOCATE AND RECONDITION SAID UTILITIES.
- PROPOSED ADDITIONAL PROJECT IMPERVIOUS AREA ASSOCIATED WITH THE NEW WASTEWATER PUMP STATION = +/- 2,500 SF.

LEGEND

- EXISTING EDGE OF PAVEMENT
- - - - PROPOSED EDGE OF PAVEMENT
- - - - EXISTING SIDEWALK
- - - - EXISTING BUILDING
- - - - PROPOSED BUILDING
- - - - EXISTING WATERLINE
- - - - PROPOSED WATERLINE
- - - - EXISTING SEWER
- - - - PROPOSED SEWER
- - - - EXISTING SEWER FORCE MAIN
- - - - EXISTING SEWER FORCE MAIN
- - - - EXISTING DITCH/SWALE
- - - - EXISTING DRAINAGE PIPE
- - - - PROPOSED DRAINAGE PIPE
- - - - SILT FENCE
- - - - LIMITS OF DISTURBANCE
- PROPOSED SANITARY MANHOLE
- EXISTING SANITARY MANHOLE
- EXISTING DROP INLET
- EXISTING CURB INLET
- PROPOSED STORM MANHOLE
- PROPOSED CURB INLET
- EX. DRAINAGE FLOW DIRECTION
- BLOCK & GRAVEL INLET PROTECTION
- EX. CURB INLET PROTECTION
- EX. DROP INLET PROTECTION



KEY PLAN:

Project #: 100139
 Drawing #: 100139 U-4438 UTL
 Drawn: DAD
 Checked: KDH
 Approved: SCR
 Date: 12/09/2010
 Sheet #: 34/44
 Scale: 1:40

REVISIONS:
 NUM. DATE DESCRIPTION

Utilities by
 Others
 UO-24A

UTILITY RELOCATION FOR NCDOT U-4438

ELIZABETH CITY PASQUOTANK COUNTY NORTH CAROLINA



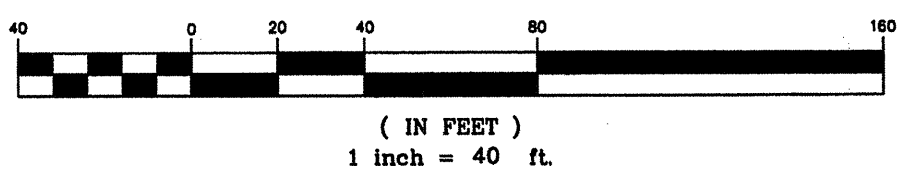
EROSION CONTROL SITE DATA:

- OWNER: THE CITY OF ELIZABETH CITY
 PO BOX 347
 ELIZABETH CITY, NC 27907-0347
 252-337-8628
- AREA OF LAND DISTURBANCE = 6.50 ACRES
- CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE AREAS OF LAND DISTURBANCE SHOWN ON THIS PLAN ARE AS FOLLOWS:
 RELOCATION AND RECONFIGURING OF UNDERGROUND WATER AND SEWER UTILITIES LOCATED IN THE PUBLIC RIGHTS-OF-WAY WITHIN THE LIMITS OF DISTURBANCE SHOWN ON THIS SHEET. THE RELOCATION OF UNDERGROUND UTILITIES ARE BEING PERFORMED IN CONJUNCTION WITH NCDOT PROJECT NUMBER U-4438 INVOLVING THE RECONSTRUCTION/RECONDITIONING OF ELIZABETH STREET (US 158) AND THE REPLACEMENT OF THE US 158 BRIDGE OVER THE PASQUOTANK RIVER. ANY NECESSARY UTILITY RELOCATIONS WITHIN THE ELIZABETH STREET RIGHT-OF-WAY AND ADJACENT RIGHTS-OF-WAY UP TO THE SHOWN LIMITS OF DISTURBANCE WILL BE PERFORMED BY NCDOT UNDER THE U-4438 CONSTRUCTION PROJECT AT A LATER DATE.
 ALL STREET AND STORMWATER INFRASTRUCTURE SHALL BE REMOVED AND REPLACES AS NECESSARY FOR THE CONSTRUCTION OF UNDERGROUND UTILITIES.
- PERMANENT UTILITY EASEMENTS HAVE BEEN OBTAINED FOR CONSTRUCTION ACTIVITIES ON PRIVATE AND PUBLICLY OWNED PROPERTIES NECESSARY TO RELOCATE AND RECONDITION SAID UTILITIES.
- PROPOSED ADDITIONAL PROJECT IMPERVIOUS AREA ASSOCIATED WITH THE NEW WASTEWATER PUMP STATION = +/- 2,500 SF.

LEGEND

- EXISTING EDGE OF PAVEMENT
- - - PROPOSED EDGE OF PAVEMENT
- - - EXISTING SIDEWALK
- - - EXISTING BUILDING
- - - PROPOSED BUILDING
- - - EXISTING WATERLINE
- - - PROPOSED WATERLINE
- - - EXISTING SEWER
- - - PROPOSED SEWER
- - - EXISTING SEWER FORCE MAIN
- - - EXISTING SEWER FORCE MAIN
- - - EXISTING DITCH/SWALE
- - - EXISTING DRAINAGE PIPE
- - - PROPOSED DRAINAGE PIPE
- - - SILT FENCE
- LIMITS OF DISTURBANCE
- ⊙ PROPOSED SANITARY MANHOLE
- ⊙ EXISTING SANITARY MANHOLE
- ⊙ EXISTING DROP INLET
- ⊙ EXISTING CURB INLET
- ⊙ PROPOSED STORM MANHOLE
- ⊙ PROPOSED CURB INLET
- EX. DRAINAGE FLOW DIRECTION
- BLOCK & GRAVEL INLET PROTECTION
- EX. CURB INLET PROTECTION
- EX. DROP INLET PROTECTION

GRAPHIC SCALE



KEY PLAN:

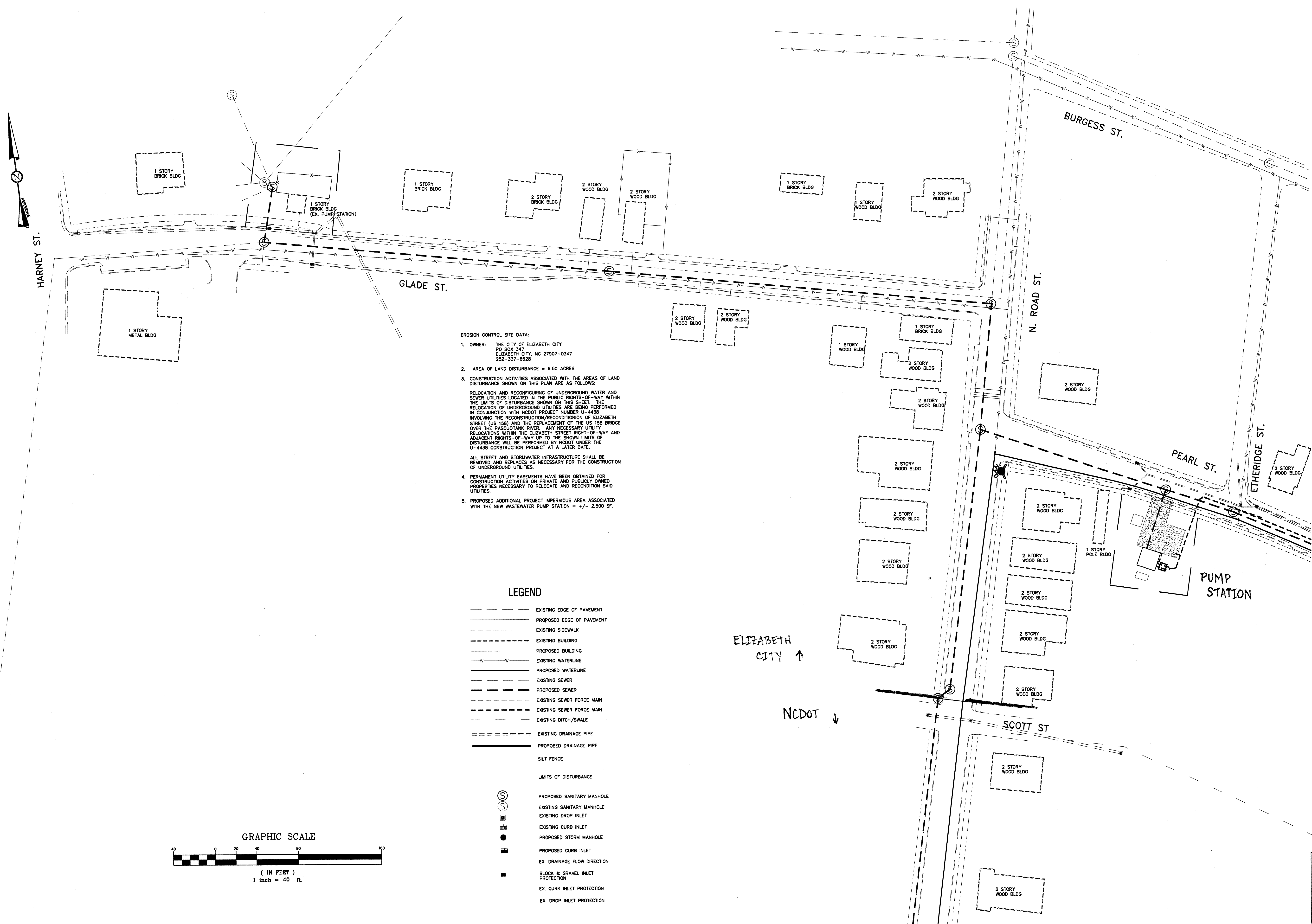
Project #:	100139
Drawing #:	100139 U-4438 UTL
Drawn:	DAD
Checked:	KDH
Approved:	SCR
Date:	08/24/2010
Sheet #:	35/44
Scale:	1:40

REVISIONS:	NUM.	DATE	DESCRIPTION

Utilities by Others
 UO-24B

UTILITY RELOCATION FOR NCDOT U-4438

ELIZABETH CITY
 PASQUOTANK COUNTY
 NORTH CAROLINA

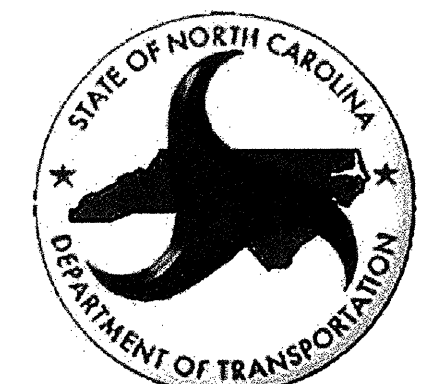
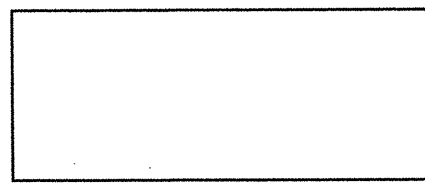
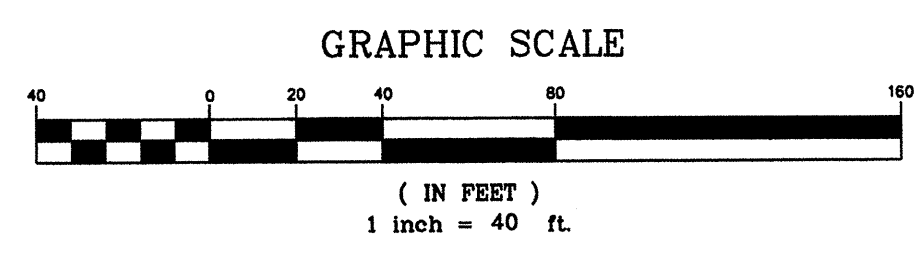


EROSION CONTROL SITE DATA:

- OWNER: THE CITY OF ELIZABETH CITY
 PO BOX 347
 ELIZABETH CITY, NC 27907-0347
 252-337-6628
- AREA OF LAND DISTURBANCE = 6.50 ACRES
- CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE AREAS OF LAND DISTURBANCE SHOWN ON THIS PLAN ARE AS FOLLOWS:
 RELOCATION AND RECONFIGURING OF UNDERGROUND WATER AND SEWER UTILITIES LOCATED IN THE PUBLIC RIGHTS-OF-WAY WITHIN THE LIMITS OF DISTURBANCE SHOWN ON THIS SHEET. THE RELOCATION OF UNDERGROUND UTILITIES ARE BEING PERFORMED IN CONJUNCTION WITH NCDOT PROJECT NUMBER U-4438 INVOLVING THE RECONSTRUCTION/RECONDITIONING OF ELIZABETH STREET (US 158) AND THE REPLACEMENT OF THE US 158 BRIDGE OVER THE PASQUOTANK RIVER. ANY NECESSARY UTILITY RELOCATIONS WITHIN THE ELIZABETH STREET RIGHT-OF-WAY AND ADJACENT RIGHTS-OF-WAY UP TO THE SHOWN LIMITS OF DISTURBANCE WILL BE PERFORMED BY NCDOT UNDER THE U-4438 CONSTRUCTION PROJECT AT A LATER DATE.
 ALL STREET AND STORMWATER INFRASTRUCTURE SHALL BE REMOVED AND REPLACES AS NECESSARY FOR THE CONSTRUCTION OF UNDERGROUND UTILITIES.
- PERMANENT UTILITY EASEMENTS HAVE BEEN OBTAINED FOR CONSTRUCTION ACTIVITIES ON PRIVATE AND PUBLICLY OWNED PROPERTIES NECESSARY TO RELOCATE AND RECONDITION SAID UTILITIES.
- PROPOSED ADDITIONAL PROJECT IMPERVIOUS AREA ASSOCIATED WITH THE NEW WASTEWATER PUMP STATION = +/- 2,500 SF.

LEGEND

- EXISTING EDGE OF PAVEMENT
- - - - PROPOSED EDGE OF PAVEMENT
- - - - EXISTING SIDEWALK
- - - - EXISTING BUILDING
- - - - PROPOSED BUILDING
- - - - EXISTING WATERLINE
- - - - PROPOSED WATERLINE
- - - - EXISTING SEWER
- - - - PROPOSED SEWER
- - - - EXISTING SEWER FORCE MAIN
- - - - EXISTING SEWER FORCE MAIN
- - - - EXISTING DITCH/SWALE
- - - - EXISTING DRAINAGE PIPE
- - - - PROPOSED DRAINAGE PIPE
- - - - SILT FENCE
- LIMITS OF DISTURBANCE
- ⊙ PROPOSED SANITARY MANHOLE
- ⊙ EXISTING SANITARY MANHOLE
- ⊙ EXISTING DROP INLET
- ⊙ EXISTING CURB INLET
- PROPOSED STORM MANHOLE
- PROPOSED CURB INLET
- EX. DRAINAGE FLOW DIRECTION
- BLOCK & GRAVEL INLET PROTECTION
- EX. CURB INLET PROTECTION
- EX. DROP INLET PROTECTION



KEY PLAN:

Project #:	100139
Drawing #:	100139 U-4438 UTL
Drawn:	DAD
Checked:	KDH
Approved:	SCR
Date:	12/09/2010
Sheet #:	36/44
Scale:	1:40

REVISIONS:	NUM.	DATE	DESCRIPTION

Utilities by
 Others
 UO-24C