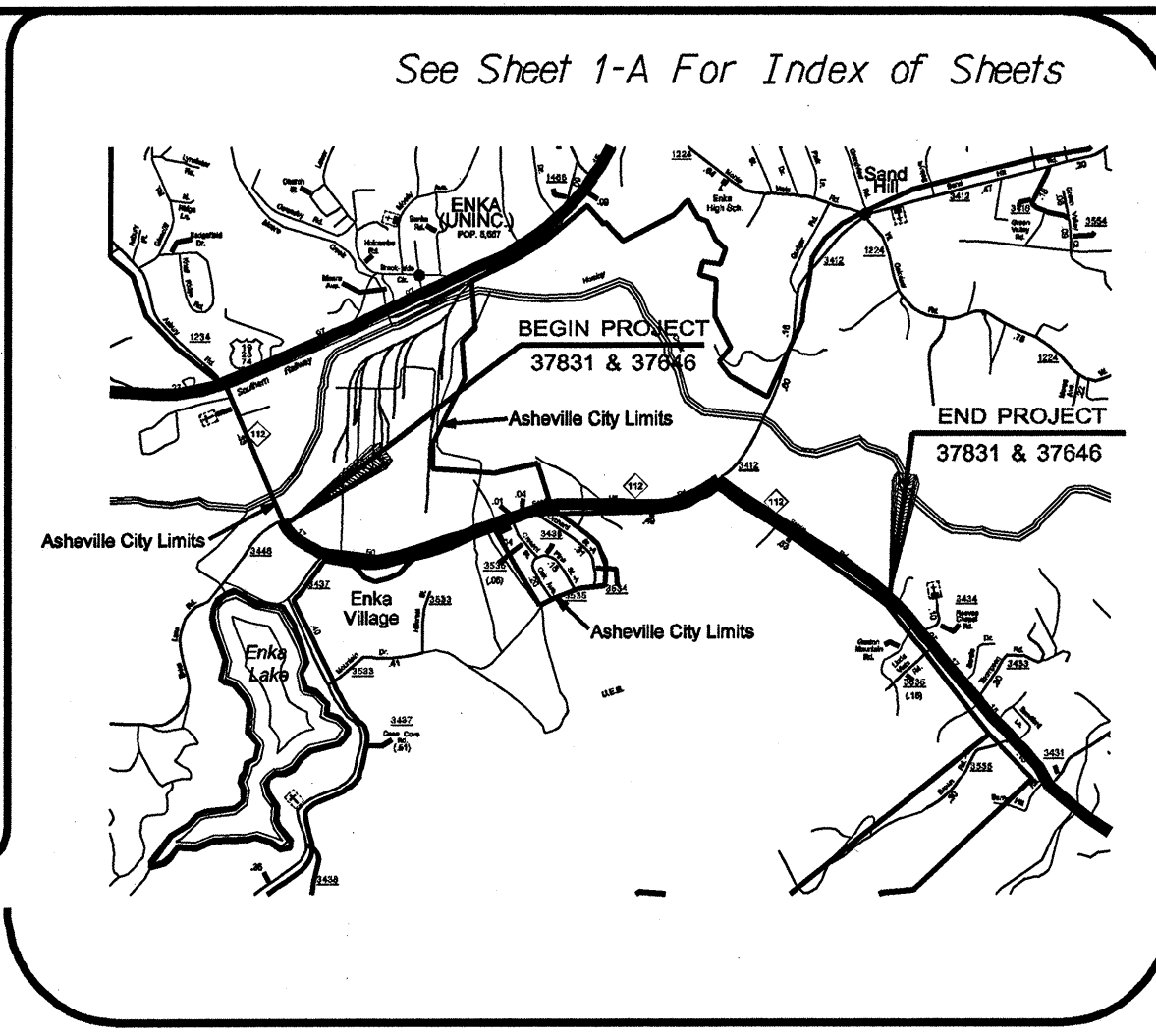


WBS 37831



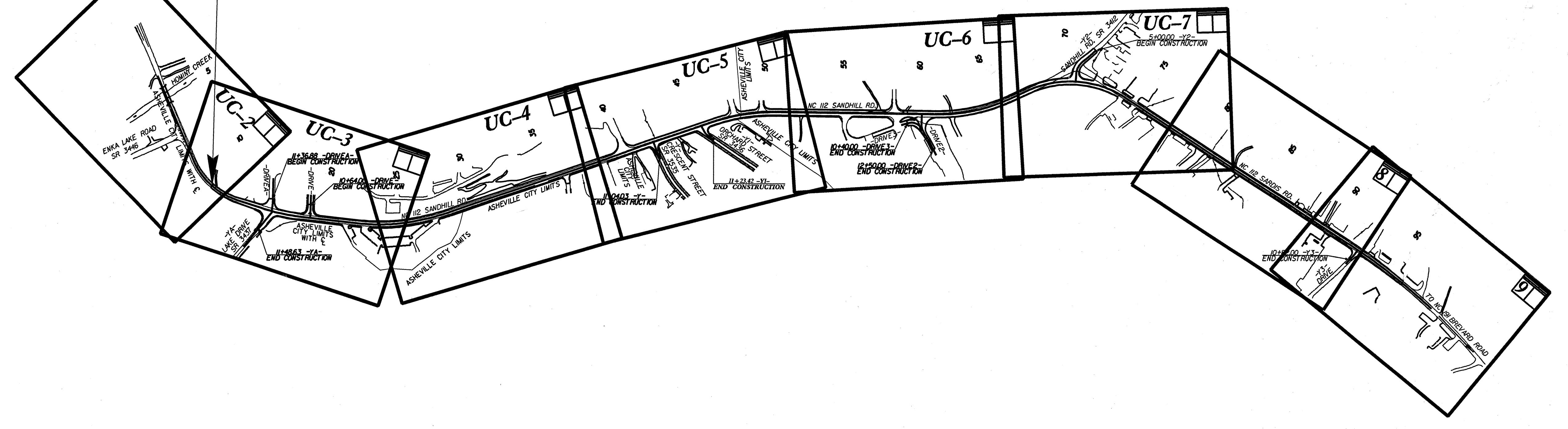
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	37831	UC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

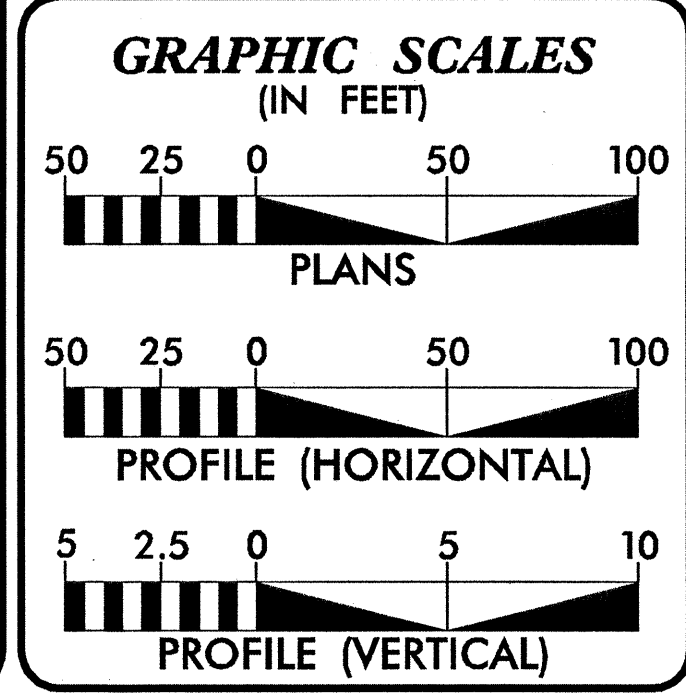
UTILITY CONSTRUCTION PLANS BUNCOMBE COUNTY

LOCATION: NC 112 SAND HILL ROAD AND SARDIS ROAD FROM WEST OF SR 3437 LAKE DRIVE TO 2500' EAST OF INTERSECTION OF SAND HILL RD. SR 3412 WITH SARDIS RD NC 112
TYPE OF WORK: GRADING, DRAINAGE, WIDENING, CURB AND GUTTER, PAVING AND THERMOPLASTIC PAVEMENT MARKINGS

STA. 12+11.76 -L- BEGIN STATE PROJECT 37831 & 37846
BEGIN CONSTRUCTION



PROJECT: MAI3028R

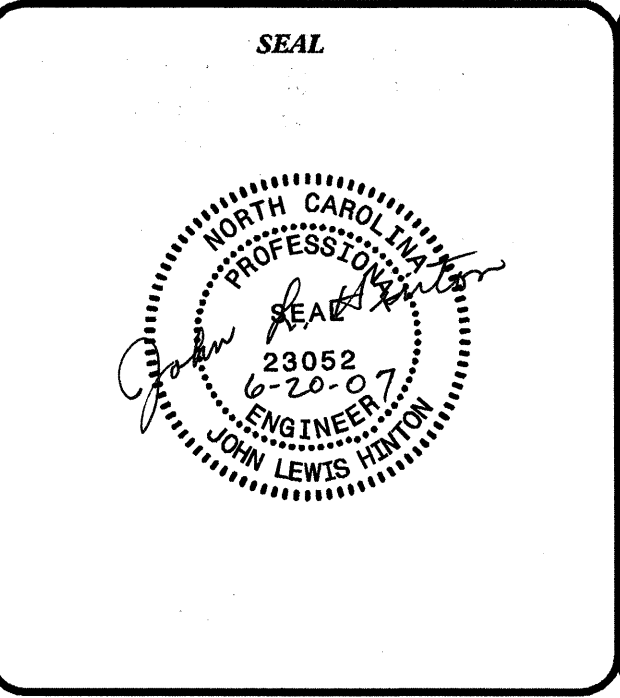


INDEX OF SHEETS

SHEET No.	DESCRIPTION
UC-1	TITLE SHEET
UC-2 TO UC-7	UTILITY CONSTRUCTION PLAN SHEETS
UC-8 TO UC-11	UTILITY CONSTRUCTION PROFILE SHEETS
UC-12 TO UC-13	UTILITY CONSTRUCTION DETAIL SHEETS

UTILITY OWNERS ON PROJECT

(1.) CITY OF ASHEVILLE (WATER)
(2.) METROPOLITAN SEWERAGE DISTRICT (SEWER)



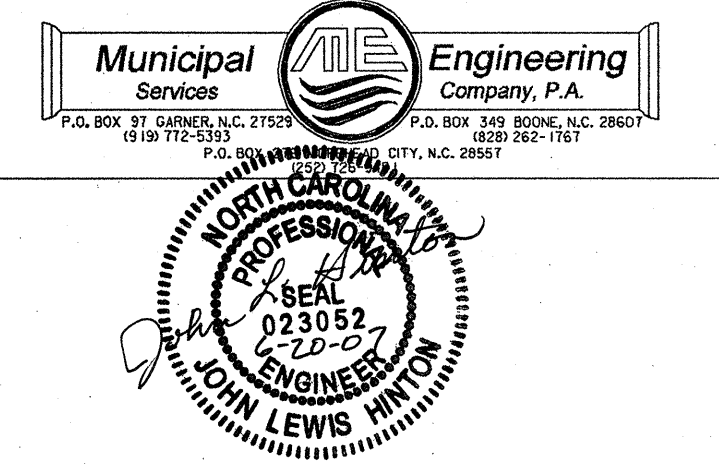
PREPARED BY

Municipal Services Engineering Company, P.A.

P.O. BOX 97 GARNER, N.C. 27529 (919) 772-5393
P.O. BOX 349 BOONE, N.C. 28607 (828) 262-1767
P.O. BOX 276 MOREHEAD CITY, N.C. 28557 (252) 726-9481

UTILITY DESIGN ENGINEER JOHN L. HINTON P.E.

\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DDON\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$

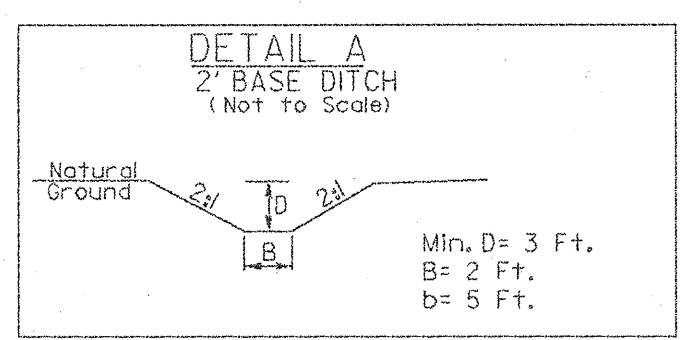


UTILITY CONSTRUCTION

1. REVISED 6/19/07 JLH
CITY OF ASHEVILLE COMMENTS

PI Sta 12+18.14	PI Sta 17+02.14	PI Sta 23+79.56
$\Delta = 49^{\circ}06'28.0"$ (LT)	$\Delta = 1^{\circ}15'29.2"$ (LT)	$\Delta = 15^{\circ}54'25.6"$ (LT)
$D = 12^{\circ}00'00.0"$	$D = 4^{\circ}15'00.0"$	$D = 4^{\circ}30'00.0"$
$L = 409.23'$	$L = 264.90'$	$L = 353.49'$
$T = 218.14'$	$T = 132.88'$	$T = 177.89'$
$R = 477.4648'$	$R = 1,348.1360'$	$R = 1,273.2395'$
$SE = 0.06$	$SE = 0.048$	$SE = 0.049$
$RUNOFF = 165.00'$	$RUNOFF = 165.00'$	$RUNOFF = 165.00'$

-DRIVEA-
 PI Sta 11+88.39
 $\Delta = 13^{\circ}25'37.1"$ (RT)
 $D = 41^{\circ}31'07.3"$
 $L = 32.34'$
 $T = 16.24'$
 $R = 138.00'$
 SE = AS SHOWN ON PLANS
 RUNOFF = AS SHOWN ON PLANS

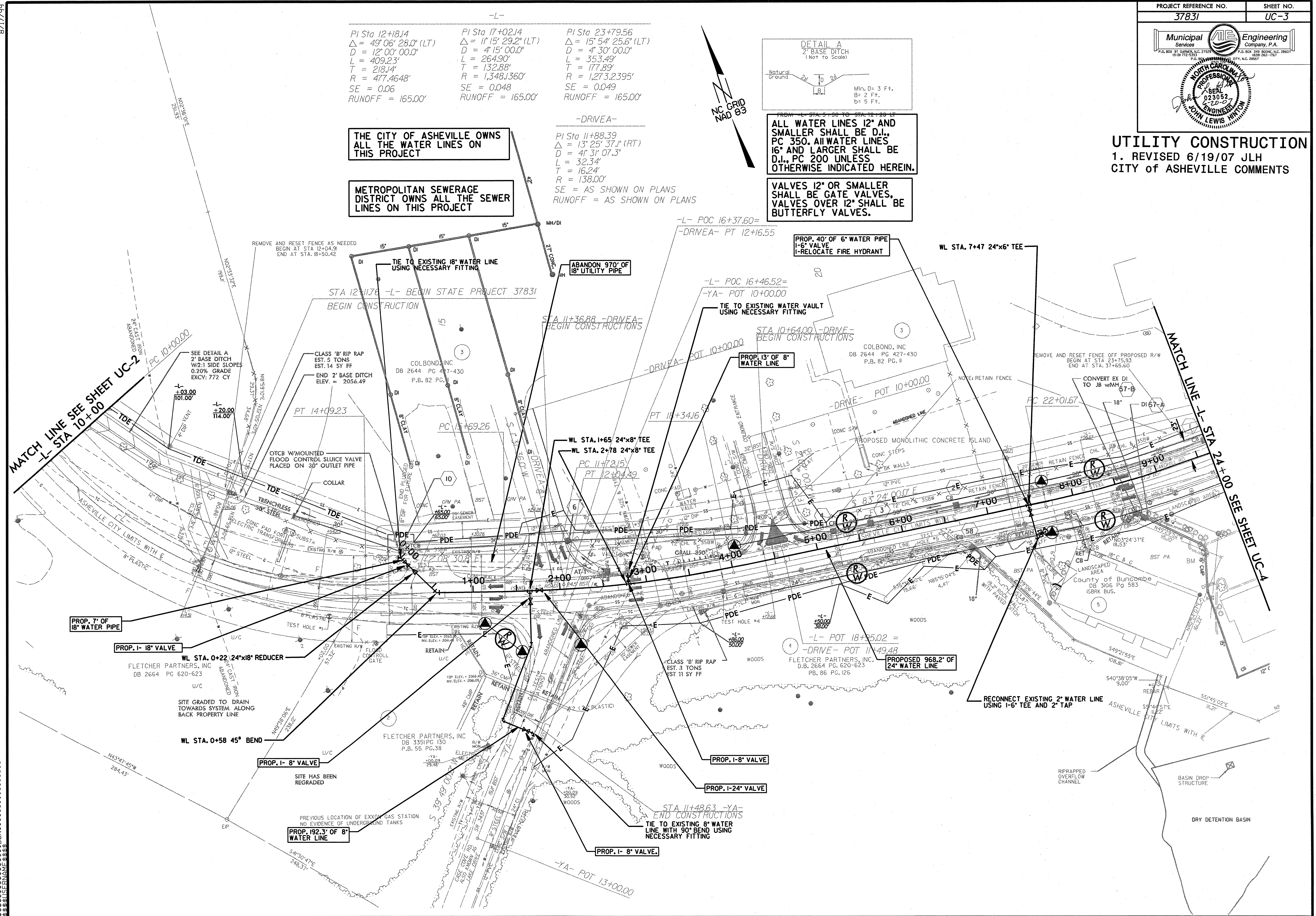


THE CITY OF ASHEVILLE OWNS ALL THE WATER LINES ON THIS PROJECT

METROPOLITAN SEWERAGE DISTRICT OWNS ALL THE SEWER LINES ON THIS PROJECT

ALL WATER LINES 12" AND SMALLER SHALL BE D.I., PC 350. ALL WATER LINES 16" AND LARGER SHALL BE D.I., PC 200 UNLESS OTHERWISE INDICATED HEREIN.

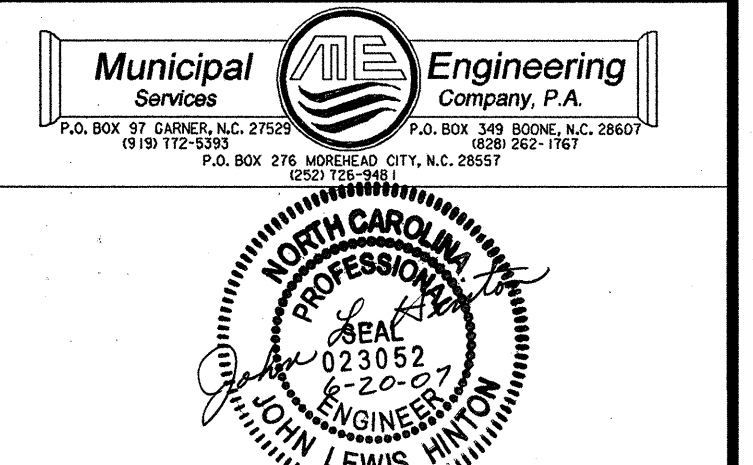
VALVES 12" OR SMALLER SHALL BE GATE VALVES, VALVES OVER 12" SHALL BE BUTTERFLY VALVES.



MATCH LINE SEE SHEET UC-2
 -L- STA 10+00

MATCH LINE -L- STA 24+00 SEE SHEET UC-4

SYNTHETIC
 DRAINAGE
 STRUCTURE

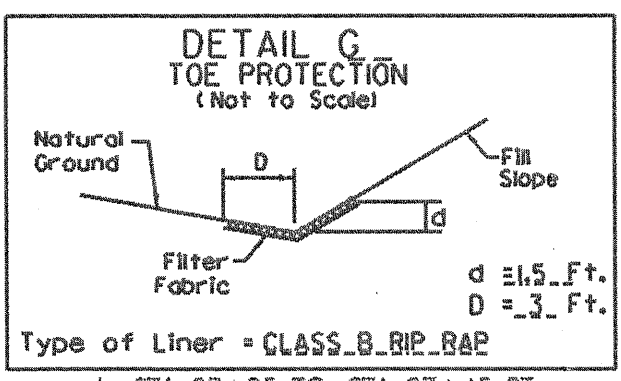
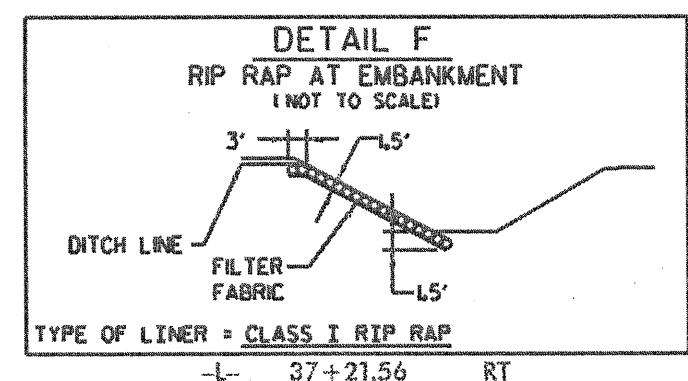
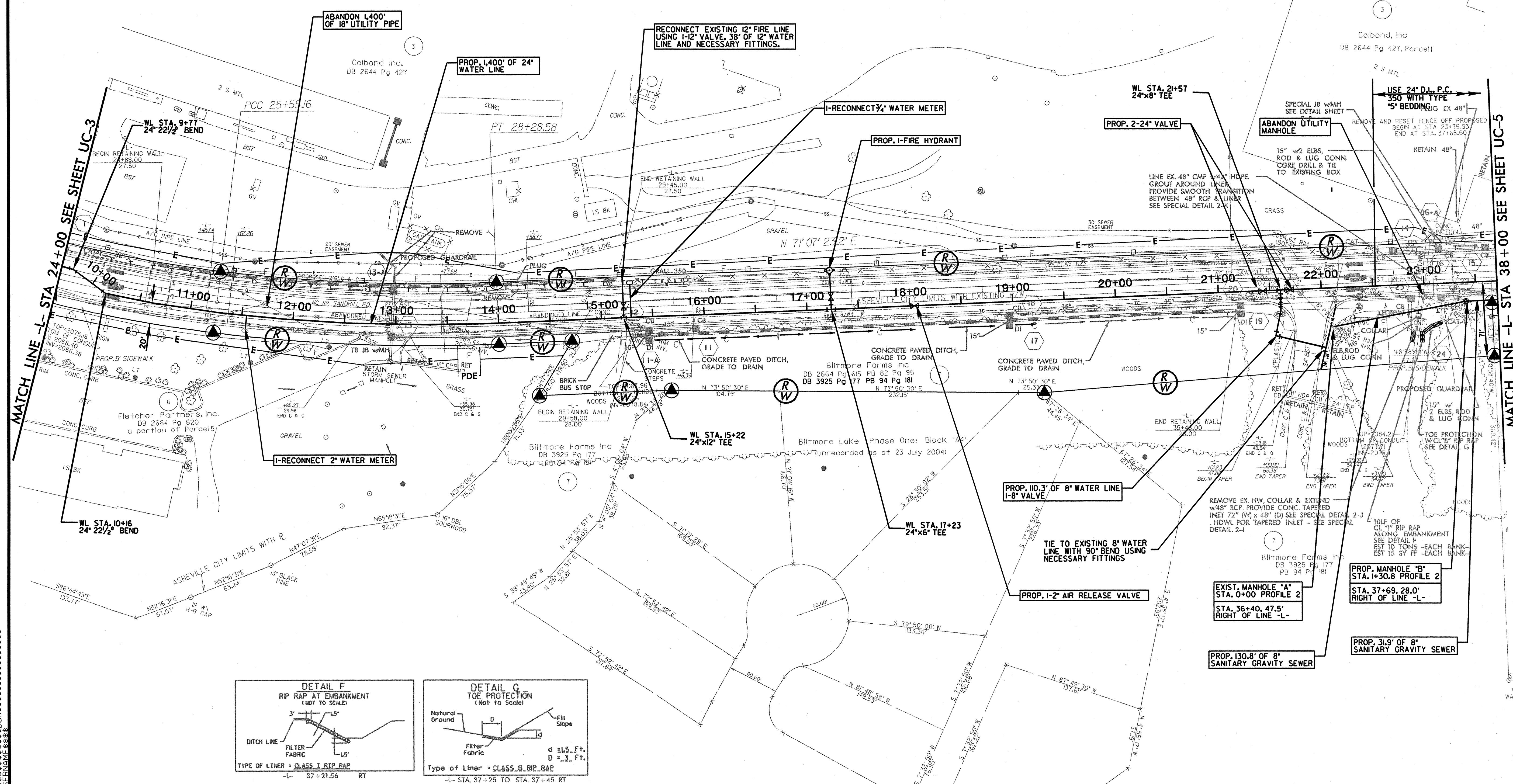


UTILITY CONSTRUCTION
 1. REVISED 6/19/07 JLH
 CITY OF ASHEVILLE COMMENTS

-L-
 PI Sta 26+92.19
 $\Delta = 9' 34'' 11.2''$ (LT)
 $D = 3' 30'' 00.0''$
 $L = 273.42'$
 $T = 137.03'$
 $R = 1,637.0223'$
 $SE = 0.043$
 $RUNOFF = 165.00'$

ALL WATER LINES 12" AND SMALLER SHALL BE D.I., PC 350. ALL WATER LINES 16" AND LARGER SHALL BE D.I., PC 200 UNLESS OTHERWISE INDICATED HEREIN.

VALVES 12" OR SMALLER SHALL BE GATE VALVES. VALVES OVER 12" SHALL BE BUTTERFLY VALVES.



8/17/09
 SYSTEMS DESIGN

MATCH LINE -L- STA 24+00 SEE SHEET UC-3
 MATCH LINE -L- STA 38+00 SEE SHEET UC-5

8/17/09
SYSTEMS
CONSTRUCTION
DIVISION
PLANNING
DEPARTMENT

PI Sta 39+43.26
Δ = 1'56" 22.2" (LT)
D = 1'15" 00.0"
L = 155.16'
T = 77.59'
R = 4,583.6624'
SE = NORMAL CROWN

PI Sta 41+17.58
Δ = 1'56" 11.0" (RT)
D = 1'00" 02.8"
L = 193.49'
T = 96.75'
R = 5,725.0456'
SE = NORMAL CROWN

ALL WATER LINES 12" AND SMALLER SHALL BE D.I., PC 350. ALL WATER LINES 16" AND LARGER SHALL BE D.I., PC 200 UNLESS OTHERWISE INDICATED HEREIN.

VALVES 12" OR SMALLER SHALL BE GATE VALVES. VALVES OVER 12" SHALL BE BUTTERFLY VALVES.

PI Sta 48+52.36
Δ = 19' 37" 08.0" (RT)
D = 4' 42" 15.0"
L = 417.05'
T = 210.59'
R = 1,217.9794'
SE = 0.05
RUNOFF = 165.00'

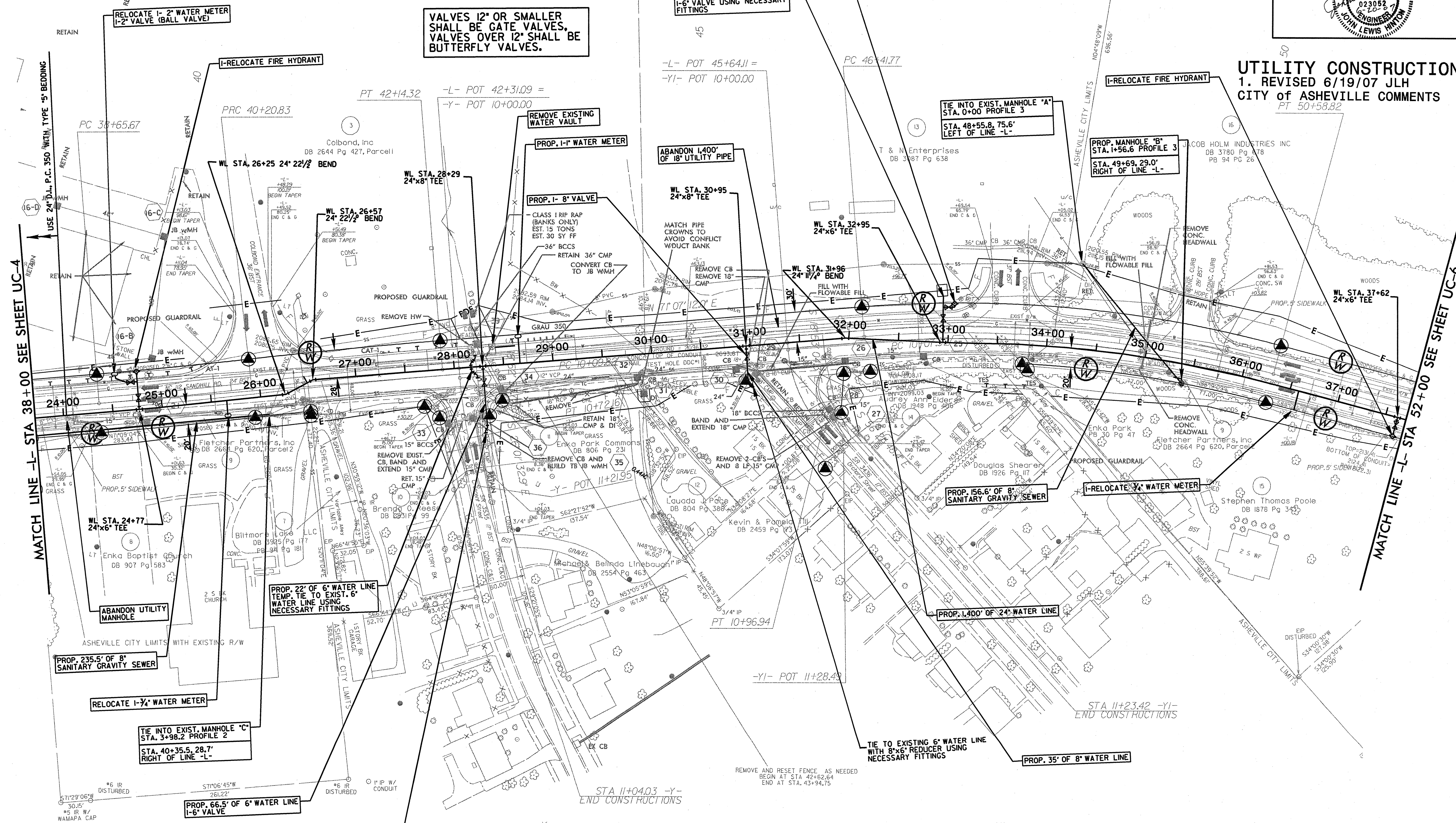
PROJECT REFERENCE NO.	SHEET NO.
37831	UC-5

Municipal Engineering Services, Inc. P.A. BOX 87 CARRIAGE, N.C. 27529 (919) 772-3383
Engineering Company, P.A. P.O. BOX 348 BOONE, N.C. 28601 (828) 262-1161

NORTH CAROLINA PROFESSIONAL SEAL
023052
JULY 2007
JOHN LEWIS HINTON

UTILITY CONSTRUCTION

1. REVISED 6/19/07 JLH
CITY OF ASHEVILLE COMMENTS
PT 50+58.82



MATCH LINE -L- STA 38+00 SEE SHEET UC-4

MATCH LINE -L- STA 52+00 SEE SHEET UC-6

-Y-
PI Sta 10+41.03
Δ = 7' 08" 39.2" (LT)
D = 11' 27" 33.0"
L = 62.35'
T = 31.21'
R = 500.0000'

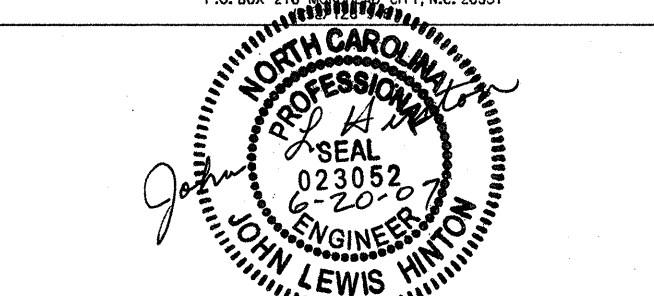
-YI-
PI Sta 10+53.80
Δ = 37' 28" 44.0" (LT)
D = 41' 49" 18.3"
L = 89.62'
T = 46.48'
R = 137.0000'

TIE TO EXISTING 6" WATER LINE USING NECESSARY FITTING

REMOVE AND RESET FENCE AS NEEDED BEGIN AT STA. 42+62.64 END AT STA. 43+94.75

STA 11+23.42 -YI- END CONSTRUCTIONS

STA 11+04.03 -Y- END CONSTRUCTIONS



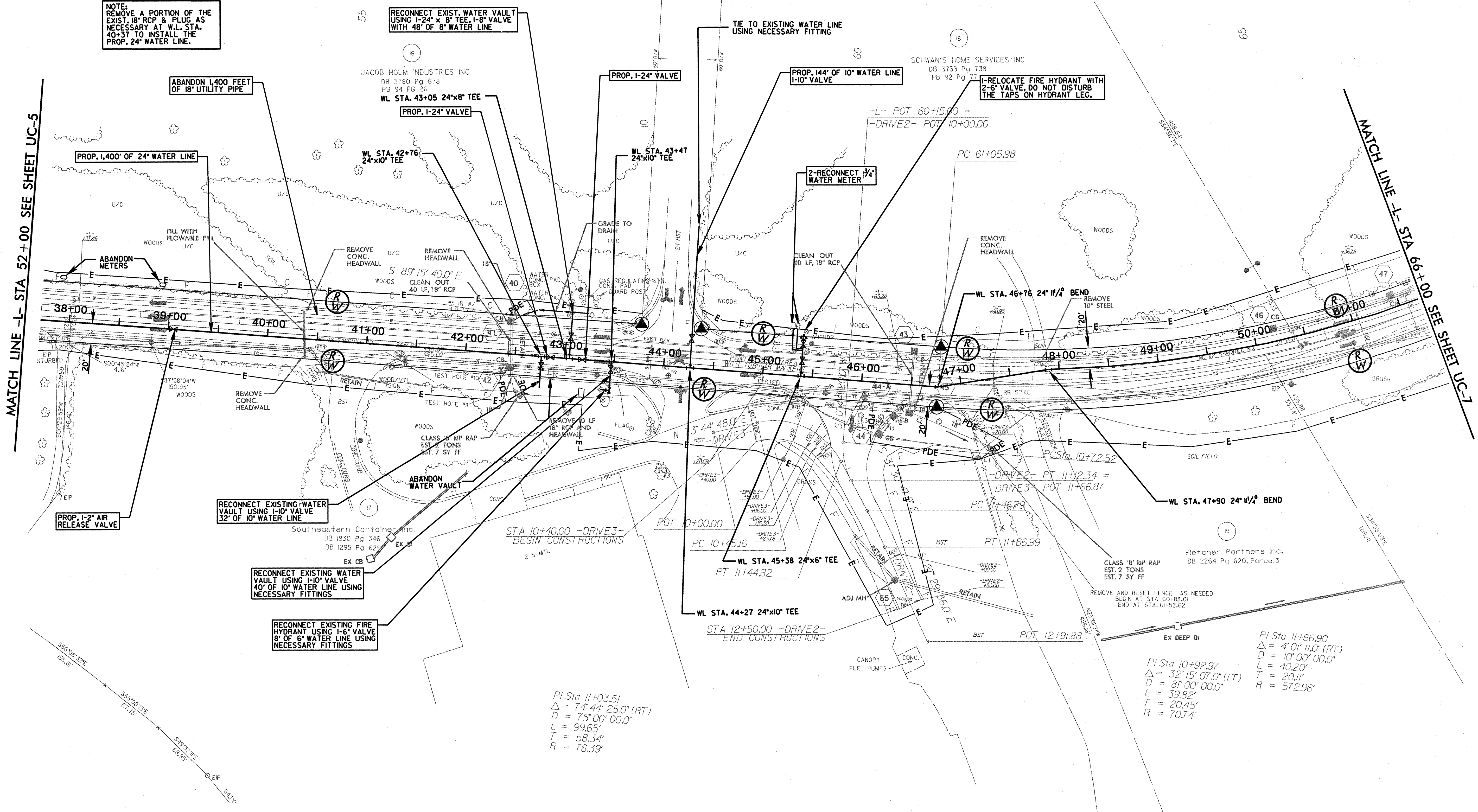
UTILITY CONSTRUCTION
1. REVISED 6/19/07 JLH
CITY OF ASHEVILLE COMMENTS

PI Sta 63+63.61
Δ = 25° 20' 30.0" (LT)
D = 5' 00' 00.0"
L = 506.83'
T = 257.63'
R = 1,145.9156'
SE = 0.051
RUNOFF = 165.00'

ALL WATER LINES 12" AND SMALLER SHALL BE D.I., PC 350. ALL WATER LINES 16" AND LARGER SHALL BE D.I., PC 200 UNLESS OTHERWISE INDICATED HEREIN.

VALVES 12" OR SMALLER SHALL BE GATE VALVES. VALVES OVER 12" SHALL BE BUTTERFLY VALVES.

NOTE: REMOVE A PORTION OF THE EXIST. 18" RCP & PLUG AS NECESSARY AT W.L. STA. 40+37 TO INSTALL THE PROP. 24" WATER LINE.



MATCH LINE -L- STA 52+00 SEE SHEET UC-5

MATCH LINE -L- STA 60+00 SEE SHEET UC-7

RECONNECT EXIST. WATER VAULT USING 1-24" x 8" TEE, 1-8" VALVE WITH 48' OF 8" WATER LINE

RECONNECT EXIST. WATER VAULT USING 1-24" x 8" TEE, 1-8" VALVE WITH 48' OF 8" WATER LINE

PROP. 144" OF 10" WATER LINE 1-10" VALVE

RELOCATE FIRE HYDRANT WITH 2-6" VALVE. DO NOT DISTURB THE TAPS ON HYDRANT LEG.

ABANDON 1,400 FEET OF 18" UTILITY PIPE

PROP. 1,400' OF 24" WATER LINE

PROP. 1-24" VALVE

PROP. 1-24" VALVE

2-RECONNECT 3/4" WATER METER

ABANDON METERS

38+00

39+00

40+00

41+00

42+00

43+00

44+00

45+00

46+00

47+00

48+00

49+00

50+00

RECONNECT EXISTING WATER VAULT USING 1-10" VALVE 40' OF 10" WATER LINE USING NECESSARY FITTINGS

PROP. 1-2" AIR RELEASE VALVE

RECONNECT EXISTING WATER VAULT USING 1-10" VALVE 40' OF 10" WATER LINE USING NECESSARY FITTINGS

RECONNECT EXISTING FIRE HYDRANT USING 1-6" VALVE 8' OF 6" WATER LINE USING NECESSARY FITTINGS

STA 10+40.00 -DRIVE3- BEGIN CONSTRUCTIONS

WL STA. 45+38 24"x6" TEE

WL STA. 44+27 24"x10" TEE

PI Sta 11+03.51
Δ = 74° 44' 25.0" (RT)
D = 75' 00' 00.0"
L = 99.65'
T = 58.34'
R = 76.39'

PI Sta 10+92.97
Δ = 32° 15' 07.0" (LT)
D = 81' 00' 00.0"
L = 39.82'
T = 20.45'
R = 70.74'

PI Sta 11+66.90
Δ = 4° 01' 11.0" (RT)
D = 10' 00' 00.0"
L = 40.20'
T = 20.11'
R = 572.96'

8/17/99

*****SYTIME*****
*****DGN*****
*****DWG*****

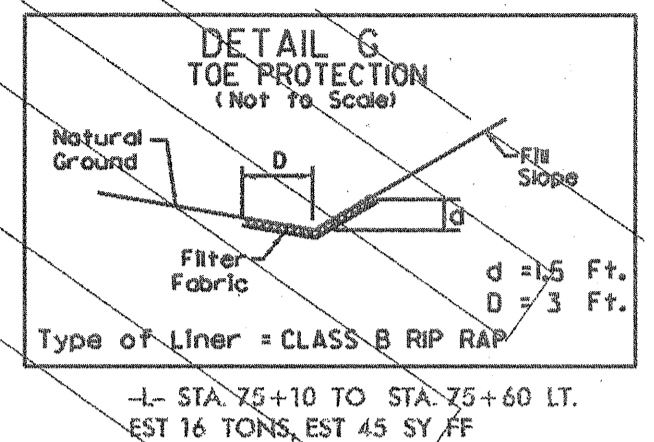
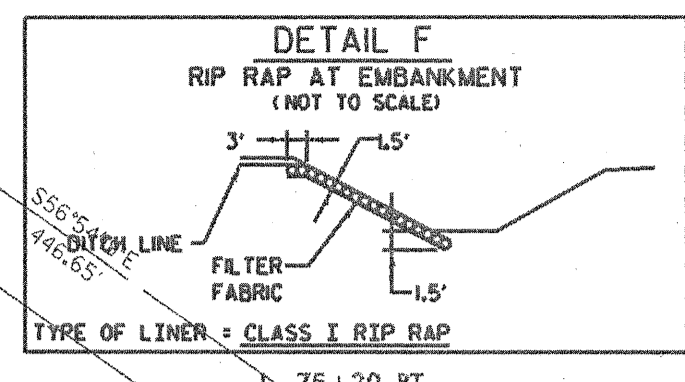
UTILITY CONSTRUCTION
1. REVISED 6/19/07 JLH
CITY OF ASHEVILLE COMMENTS

PI Sta 63+63.61
 $\Delta = 25^{\circ} 20' 30.0''$ (LT)
 $D = 5^{\circ} 00' 00.0''$
 $L = 506.83'$
 $T = 257.63'$
 $R = 1445.9156'$
 $SE = 0.051$
 $RUNOFF = 165.00'$

PI Sta 71+04.85
 $\Delta = 57^{\circ} 47' 17.4''$ (RT)
 $D = 8^{\circ} 30' 00.0''$
 $L = 679.86'$
 $T = 372.01'$
 $R = 674.0680'$
 $SE = 0.06$
 $RUNOFF = 165.00'$

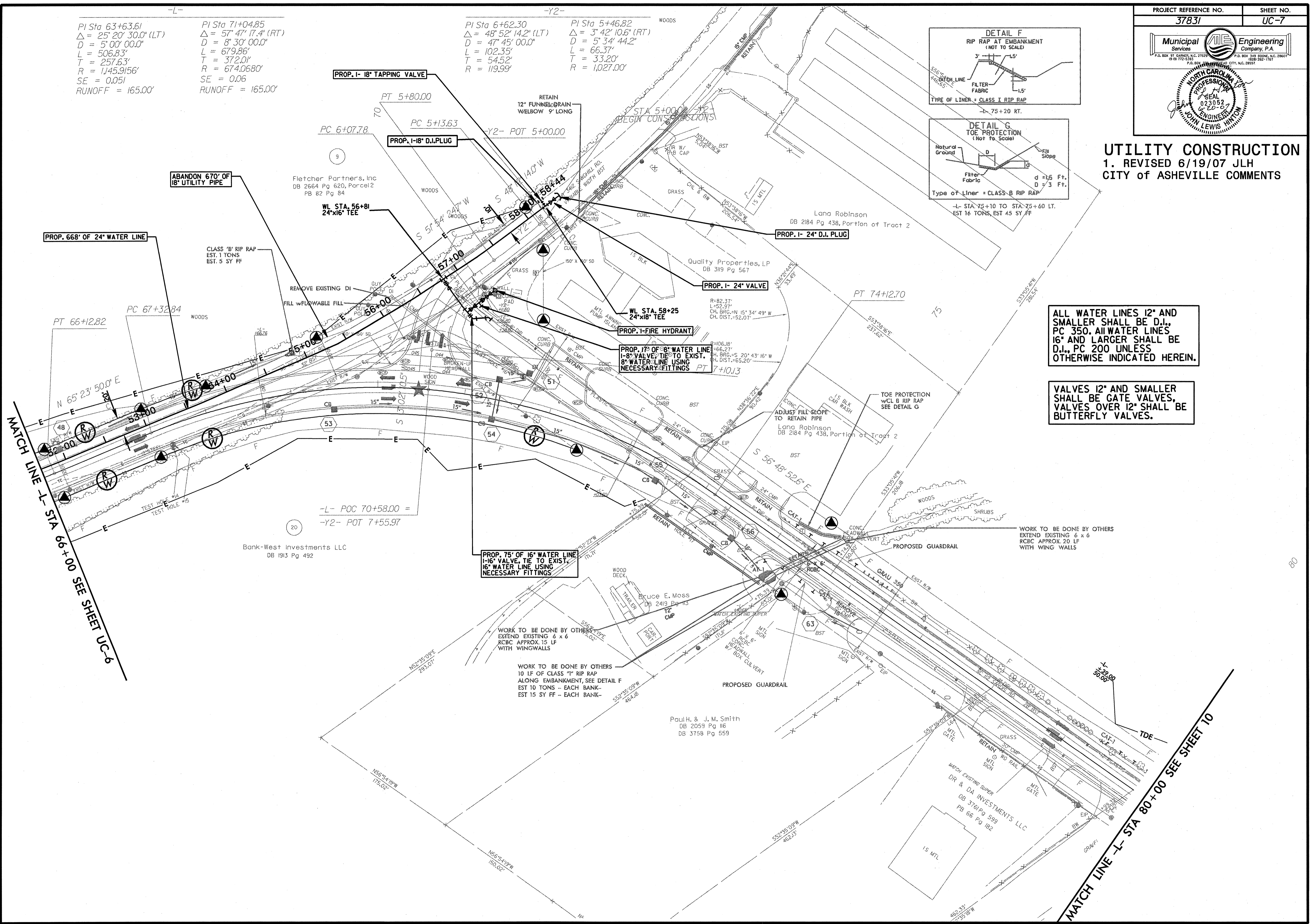
PI Sta 6+62.30
 $\Delta = 48^{\circ} 52' 14.2''$ (LT)
 $D = 47^{\circ} 45' 00.0''$
 $L = 102.35'$
 $T = 54.52'$
 $R = 119.99'$

PI Sta 5+46.82
 $\Delta = 3^{\circ} 42' 10.6''$ (RT)
 $D = 5^{\circ} 34' 44.2''$
 $L = 66.37'$
 $T = 33.20'$
 $R = 1,027.00'$



ALL WATER LINES 12" AND SMALLER SHALL BE D.I., PC 350. ALL WATER LINES 16" AND LARGER SHALL BE D.I., PC 200 UNLESS OTHERWISE INDICATED HEREIN.

VALVES 12" AND SMALLER SHALL BE GATE VALVES, VALVES OVER 12" SHALL BE BUTTERFLY VALVES.



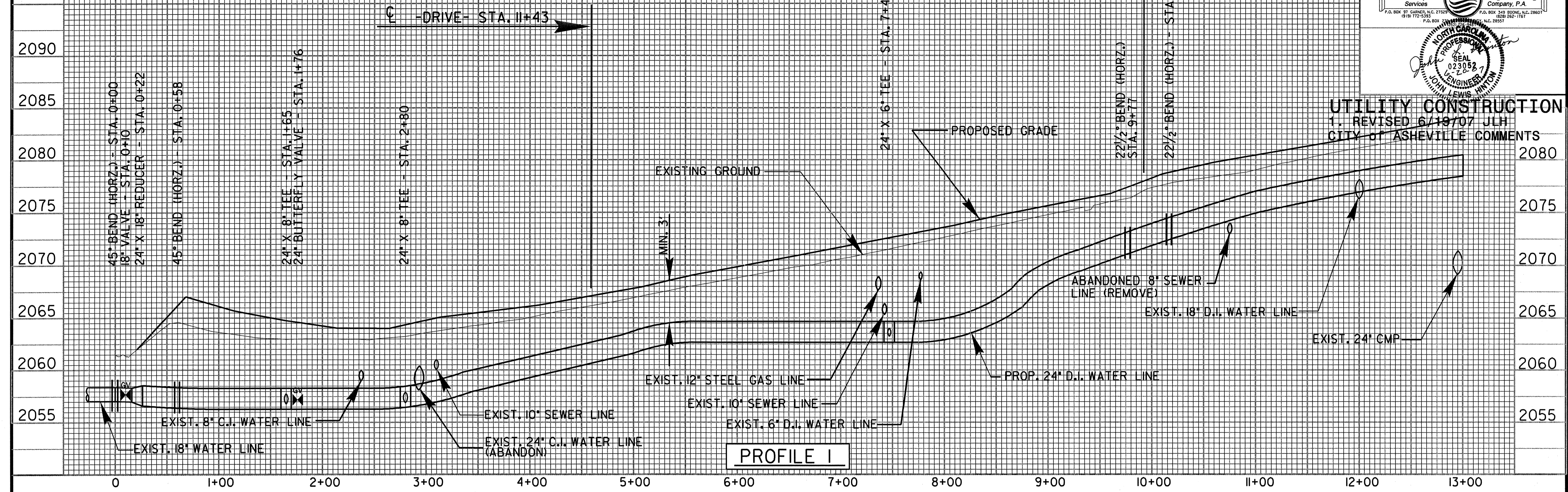
MATCH LINE -L- STA 80+00 SEE SHEET 10

MATCH LINE -L- STA 66+00 SEE SHEET UC-6

8/17/99

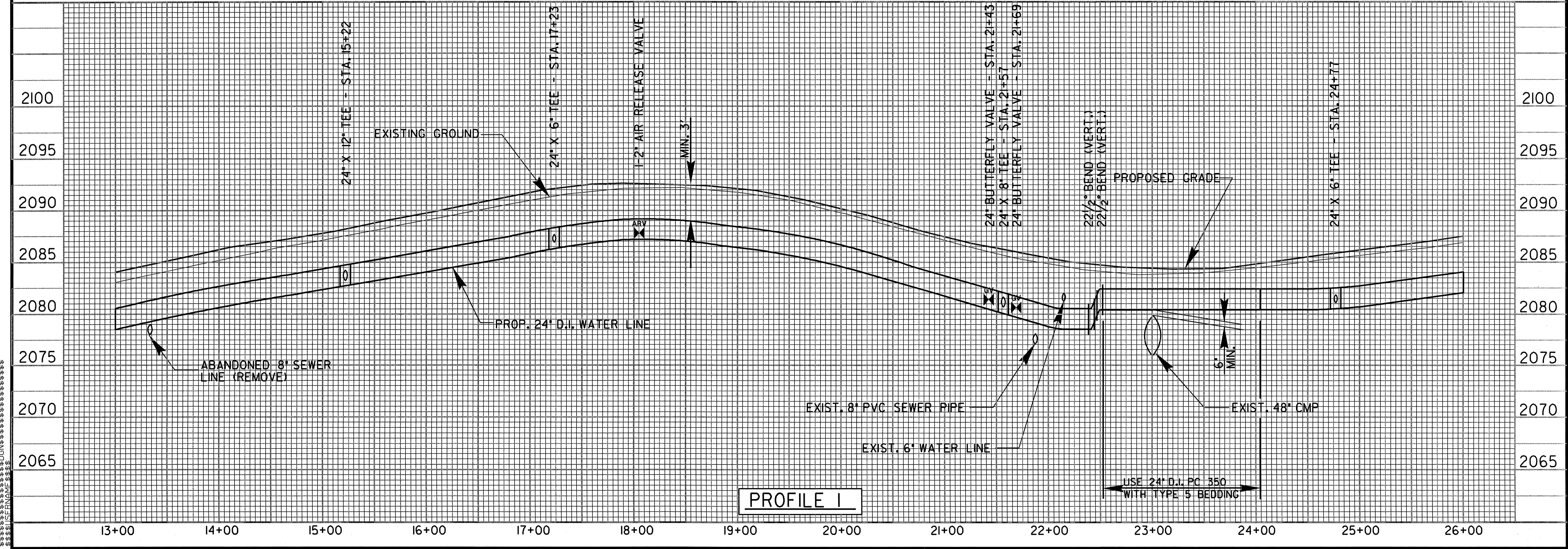
5/28/99

PROJECT REFERENCE NO.	SHEET NO.
37831	UC-8



UTILITY CONSTRUCTION
 1. REVISED 6/19/07 JLH
 CITY OF ASHEVILLE COMMENTS

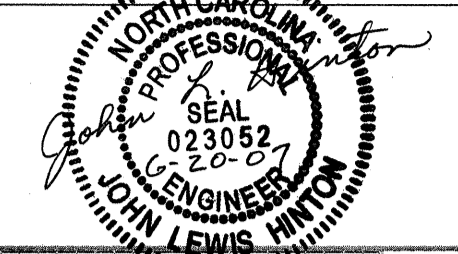
PROFILE 1



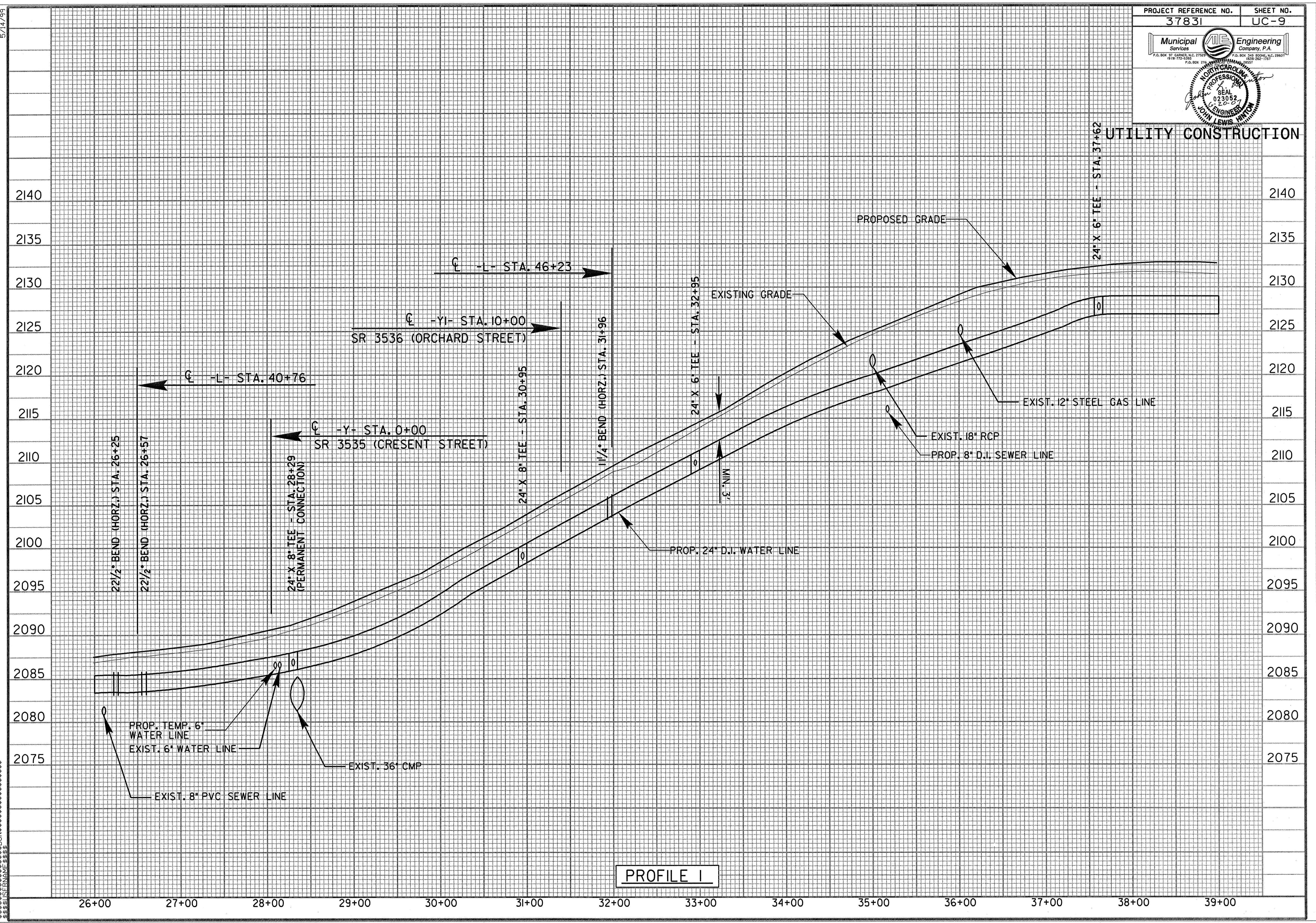
PROFILE 1

SYTIME
SUN
MON
TUE
WED
THUR
FRI
SAT
SUN

5/14/99



UTILITY CONSTRUCTION



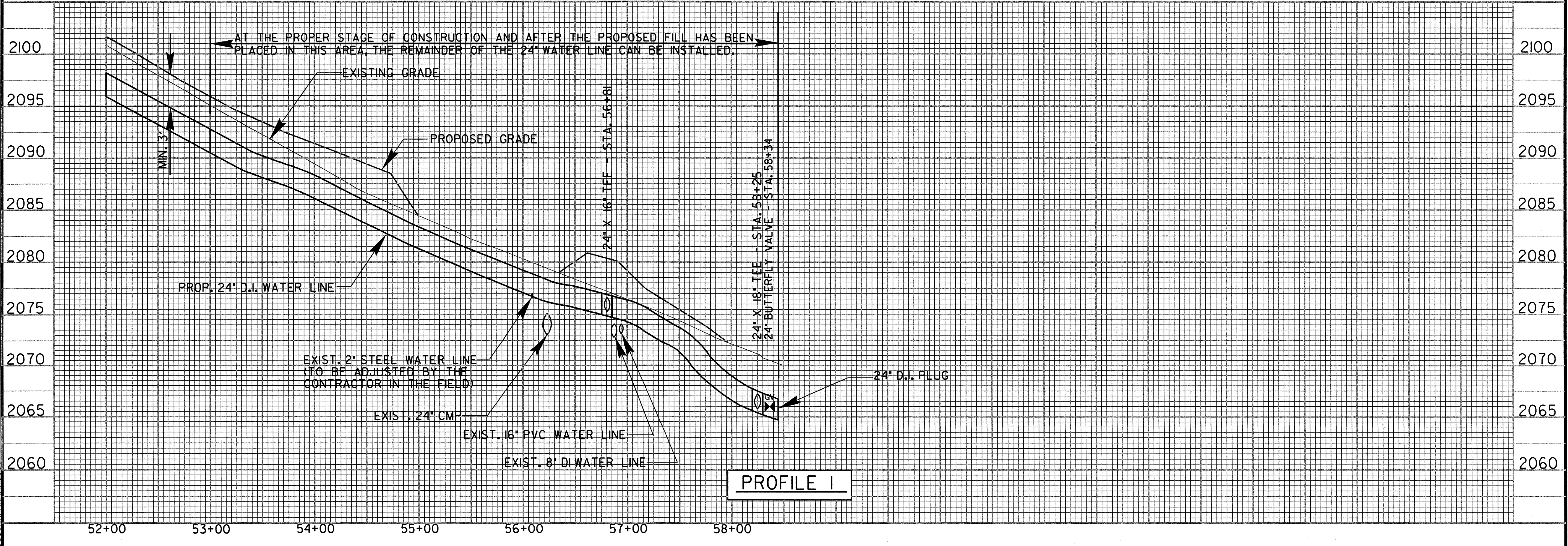
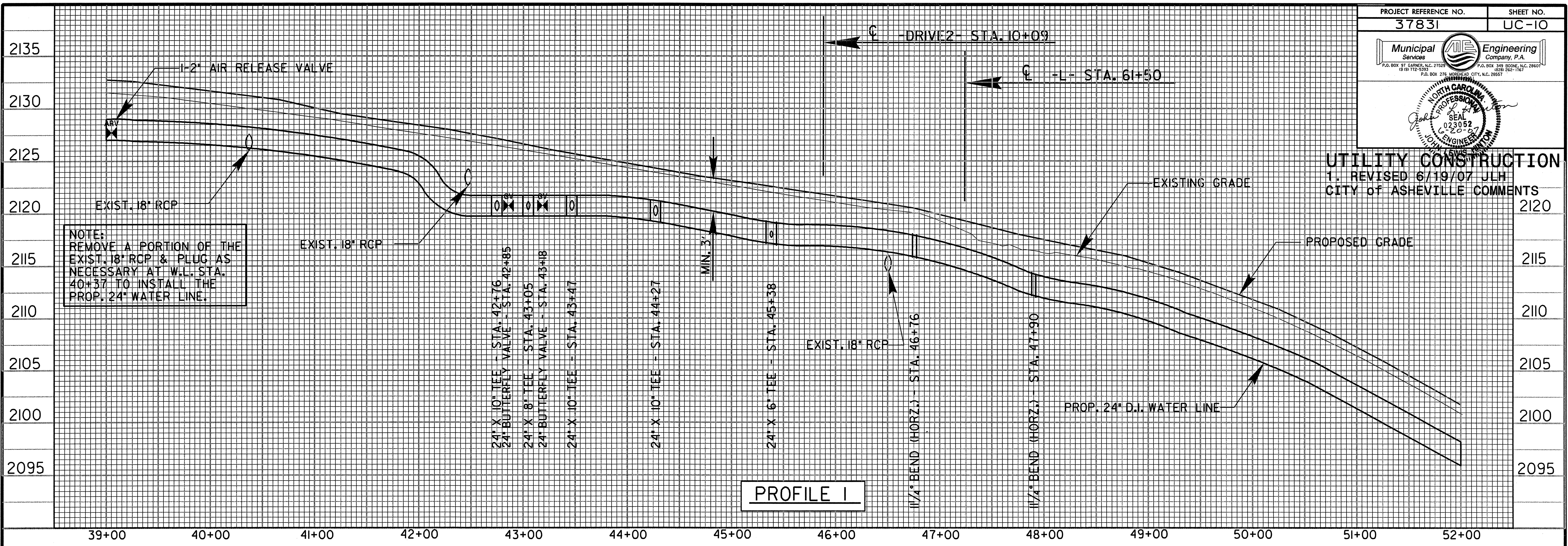
SY: JML
 DWG: 37831 UC-9
 DATE: 5/14/99

5/28/99

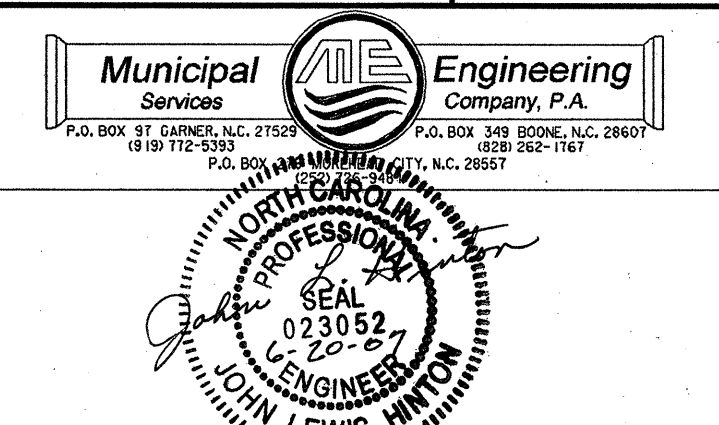
SYSTEM DESIGN

PROJECT REFERENCE NO. 37831	SHEET NO. UC-10
Municipal Services P.O. BOX 91 EMMERTON, N.C. 27629 1015 17E-2030	Engineering Company, P.A. P.O. BOX 349 BOONE, N.C. 28601 408 942-1167

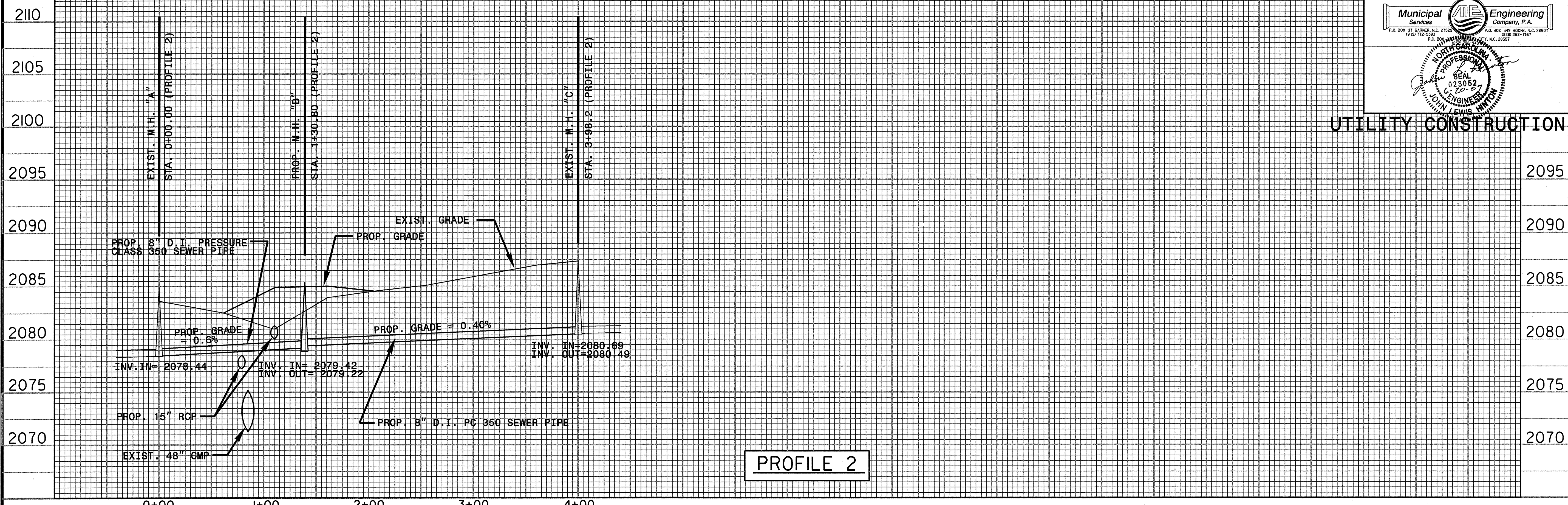
UTILITY CONSTRUCTION
 1. REVISED 6/19/07 JLH
 CITY OF ASHEVILLE COMMENTS



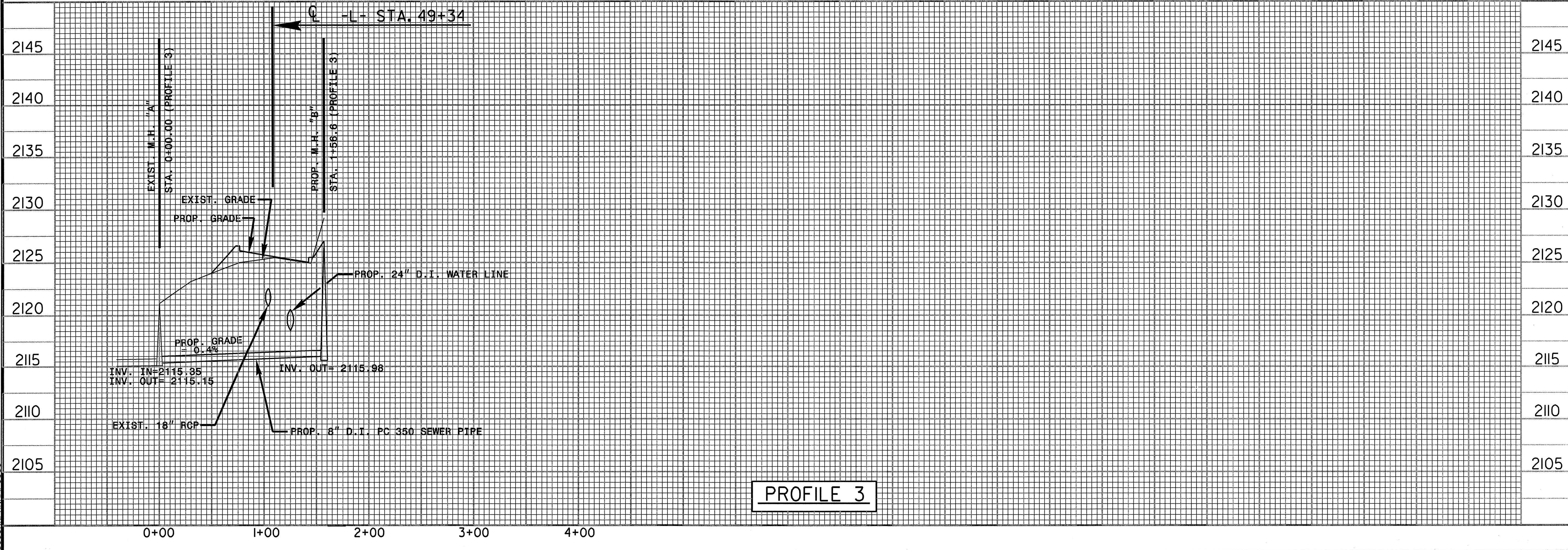
5/28/99



UTILITY CONSTRUCTION

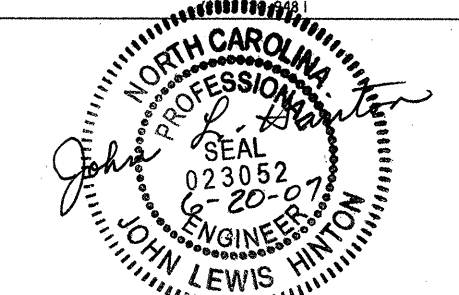


PROFILE 2

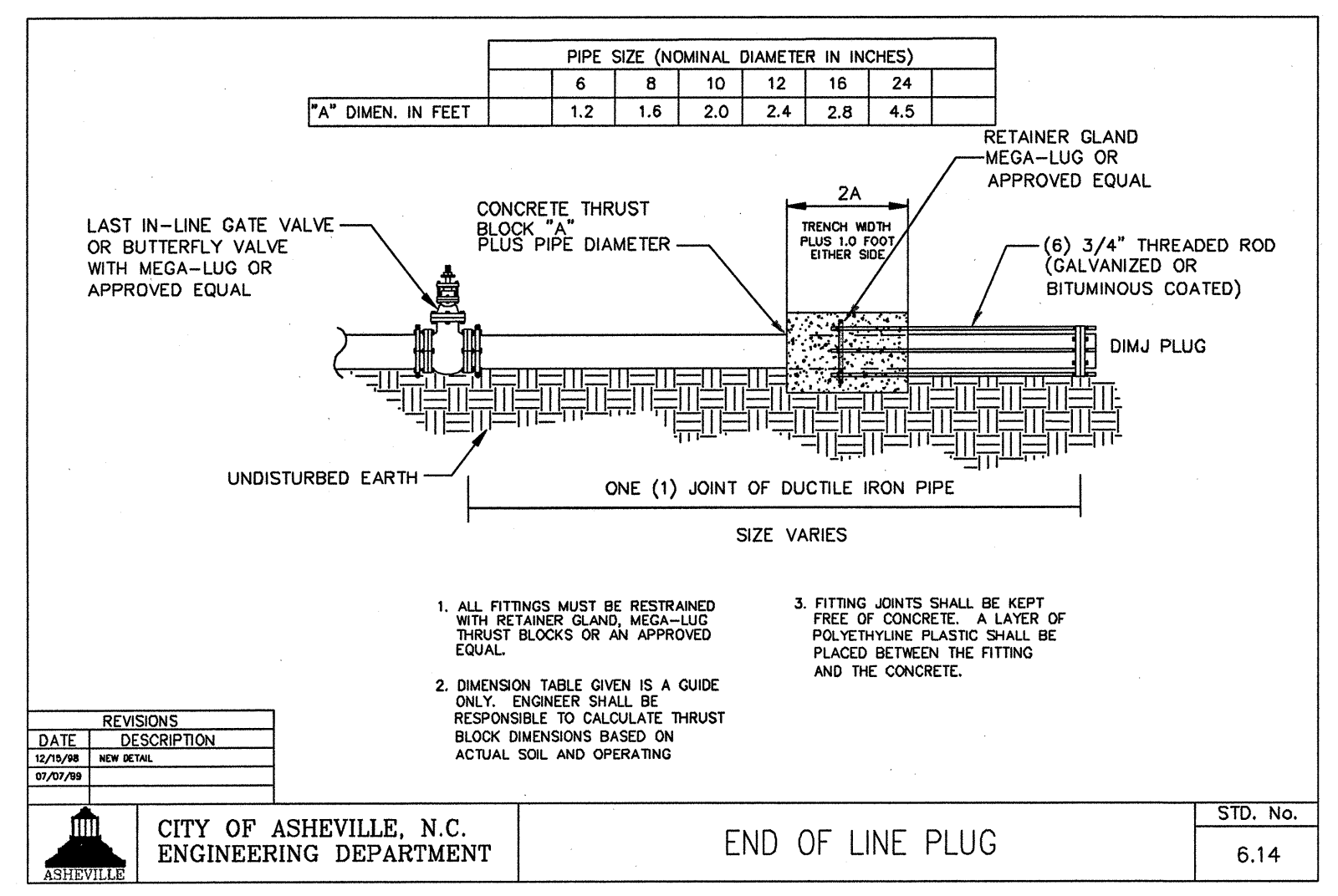


PROFILE 3

PLANNING & DESIGN

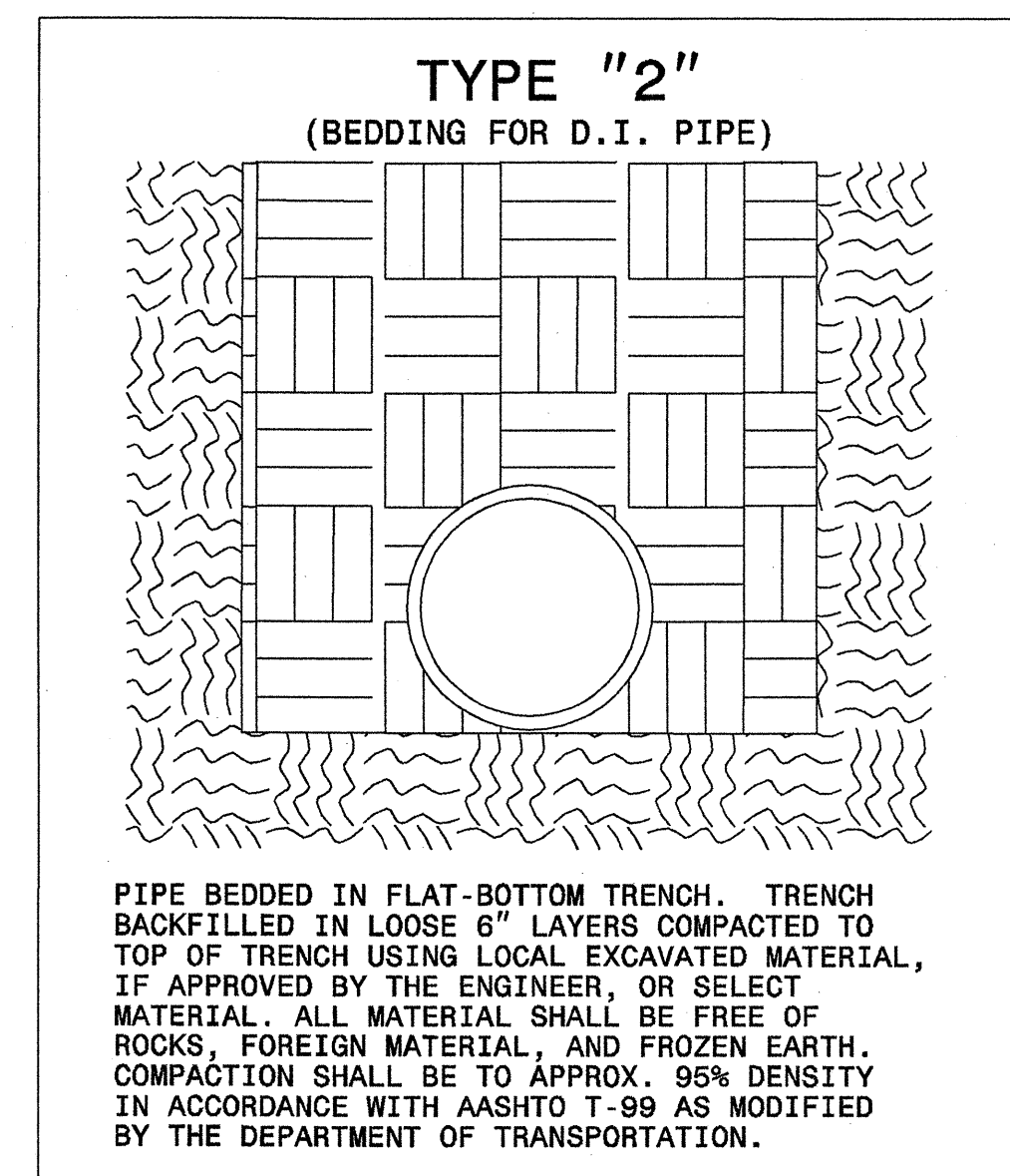


UTILITY CONSTRUCTION
 1. REVISED 6/19/07 JLH
 CITY OF ASHEVILLE COMMENTS



DATE	REVISIONS DESCRIPTION	STD. NO.
12/28/06	REVISED	
07/27/06		

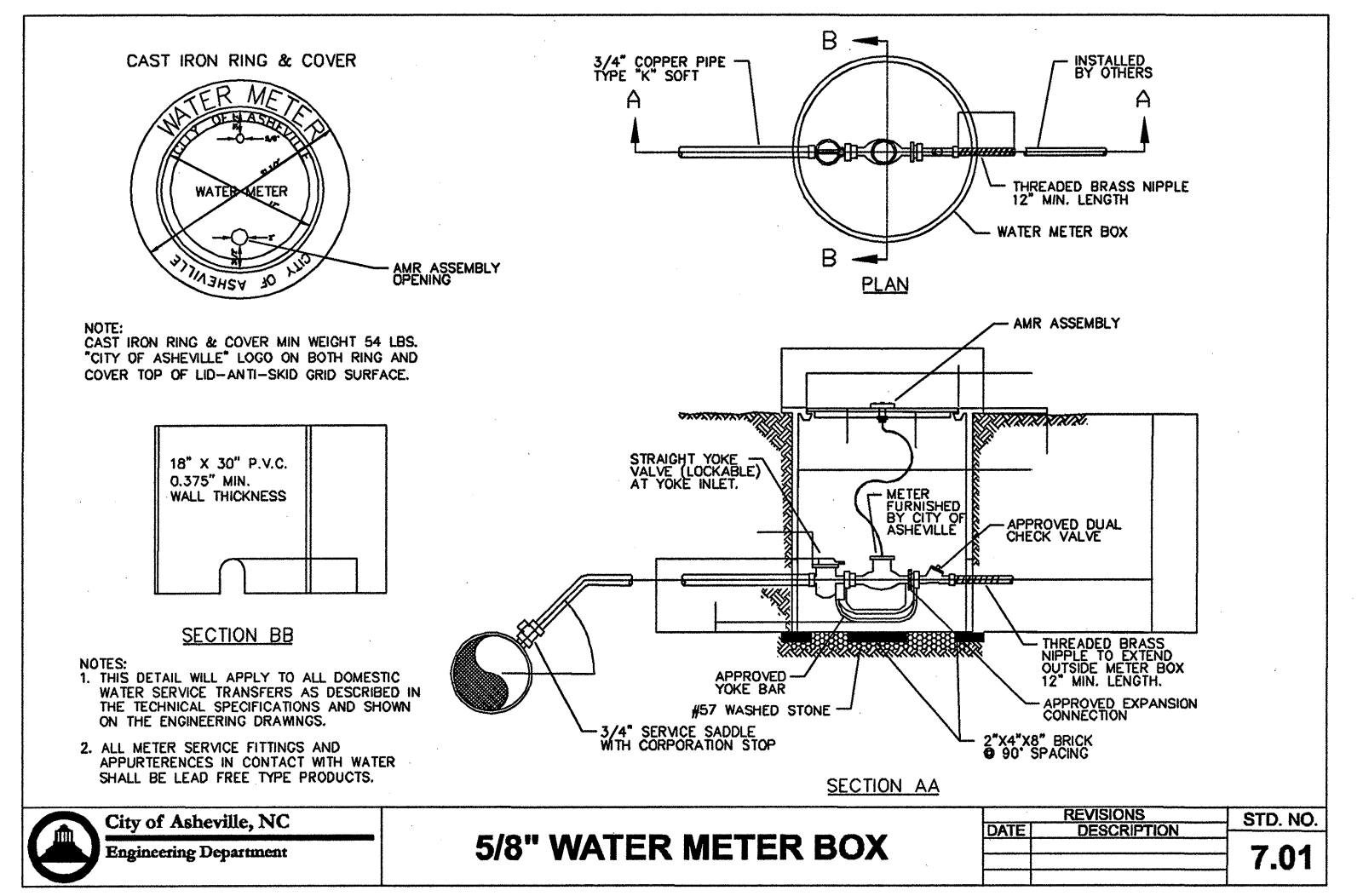
CITY OF ASHEVILLE, N.C.
 ENGINEERING DEPARTMENT
END OF LINE PLUG
 STD. NO. 6.14



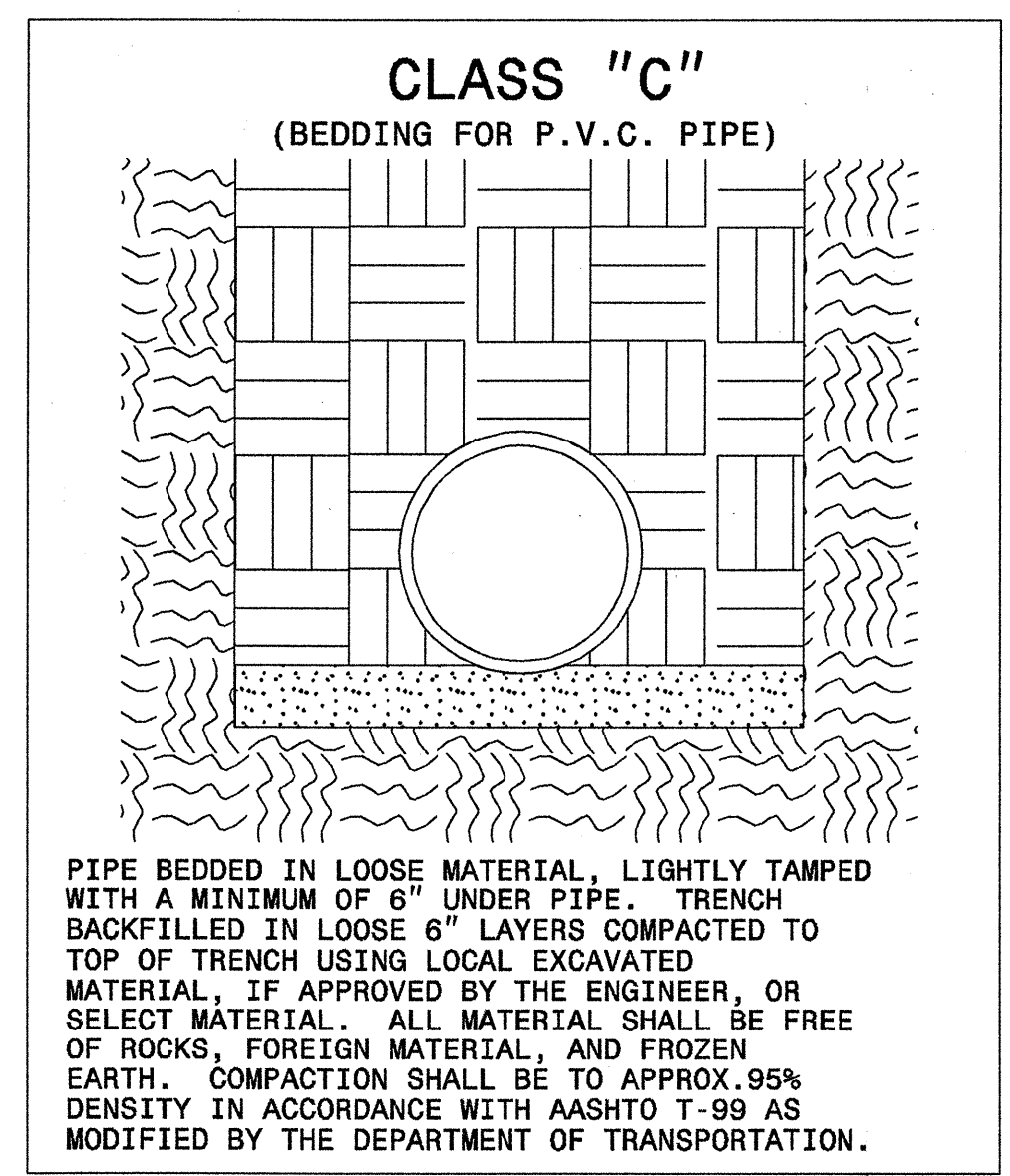
PIPE BEDDED IN FLAT-BOTTOM TRENCH. TRENCH BACKFILLED IN LOOSE 6" LAYERS COMPACTED TO TOP OF TRENCH USING LOCAL EXCAVATED MATERIAL, IF APPROVED BY THE ENGINEER, OR SELECT MATERIAL. ALL MATERIAL SHALL BE FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH. COMPACTION SHALL BE TO APPROX. 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE DEPARTMENT OF TRANSPORTATION.

MAXIMUM TRENCH WIDTH AT TOP OF PIPE

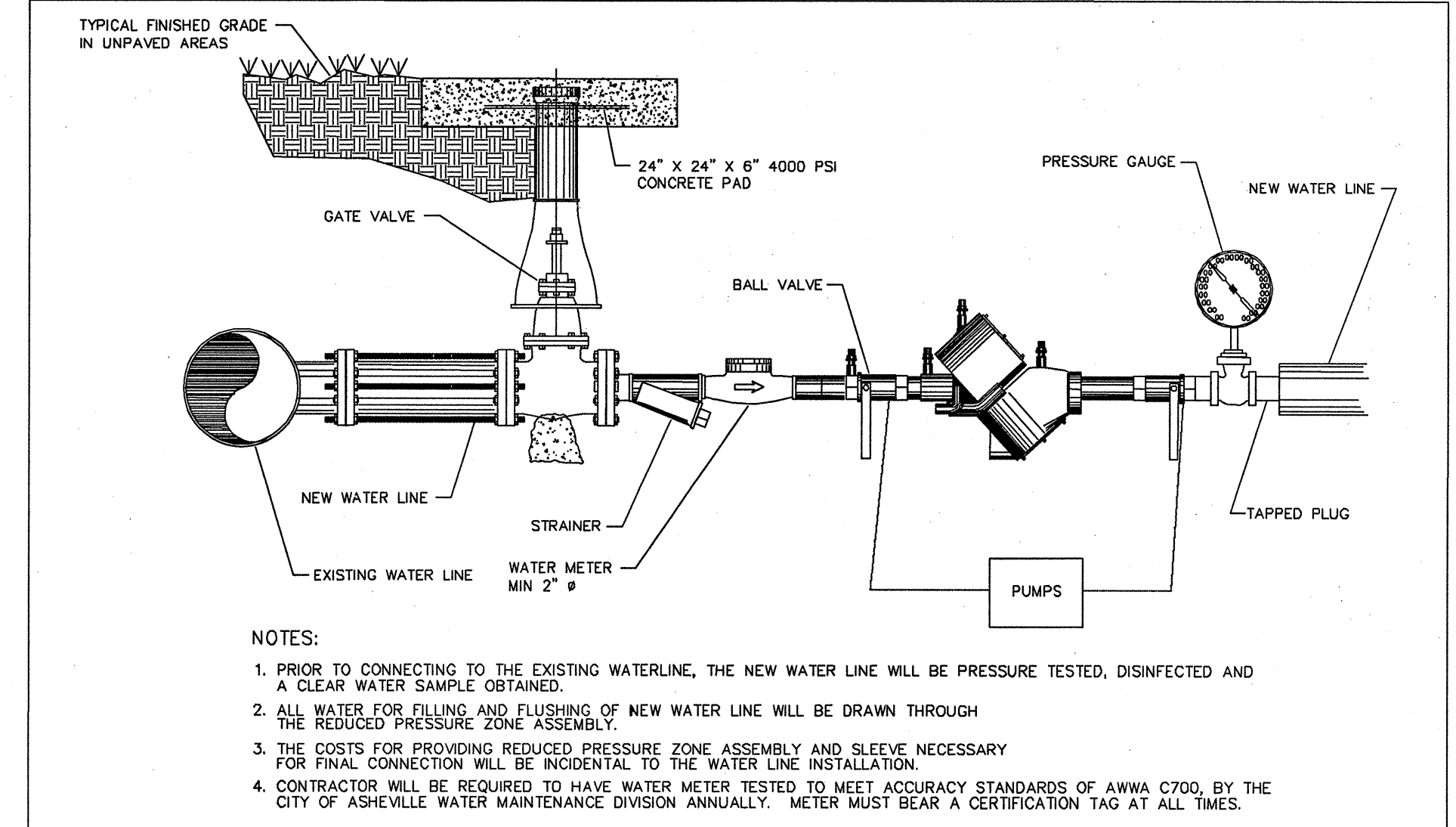
NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)	NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)
4	28	20	44
6	30	24	48
8	32	30	54
10	34	36	60
12	36	42	66
14	38	48	72
16	40	54	78
18	42		



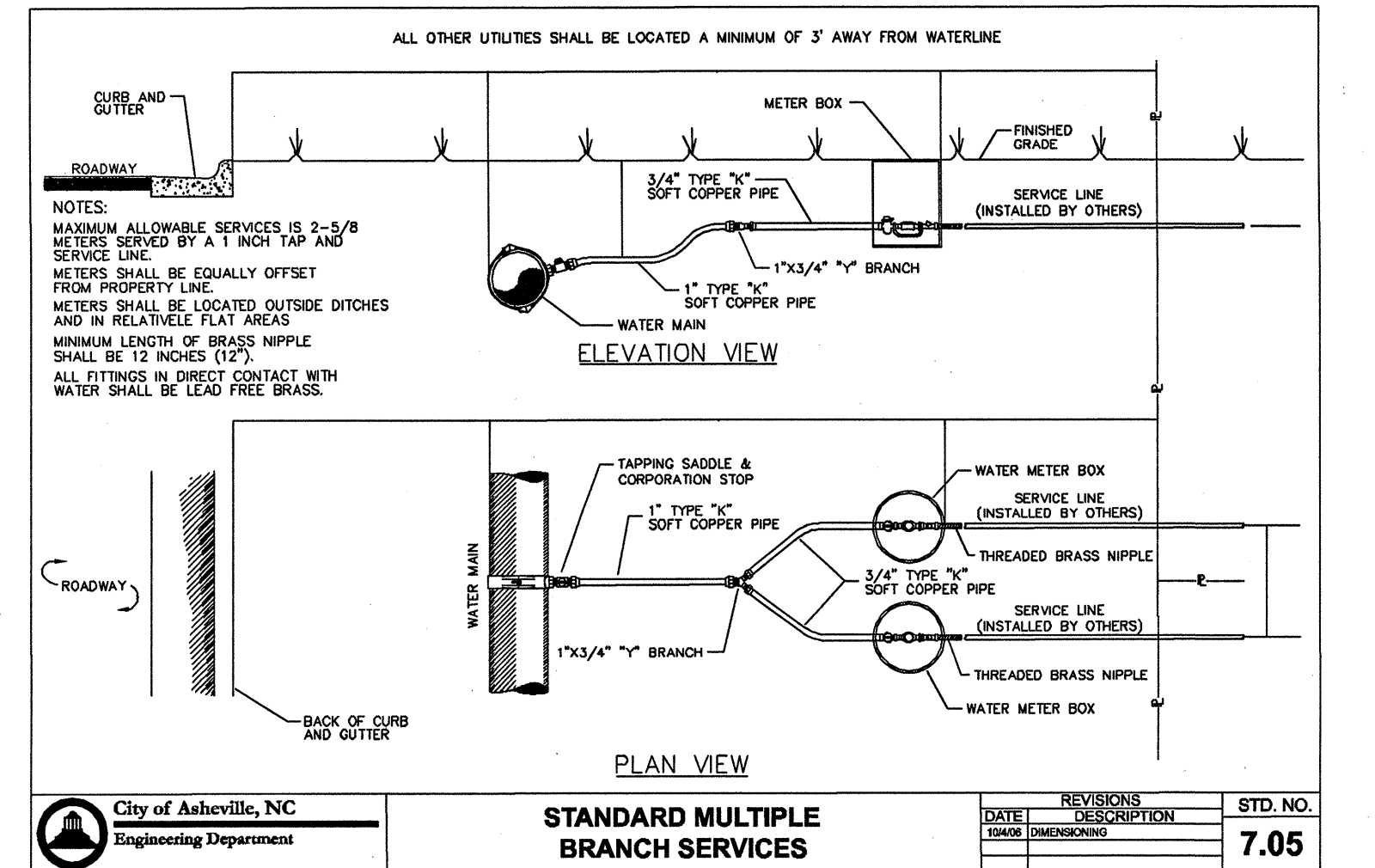
CITY OF ASHEVILLE, NC
 Engineering Department
5/8" WATER METER BOX
 STD. NO. 7.01



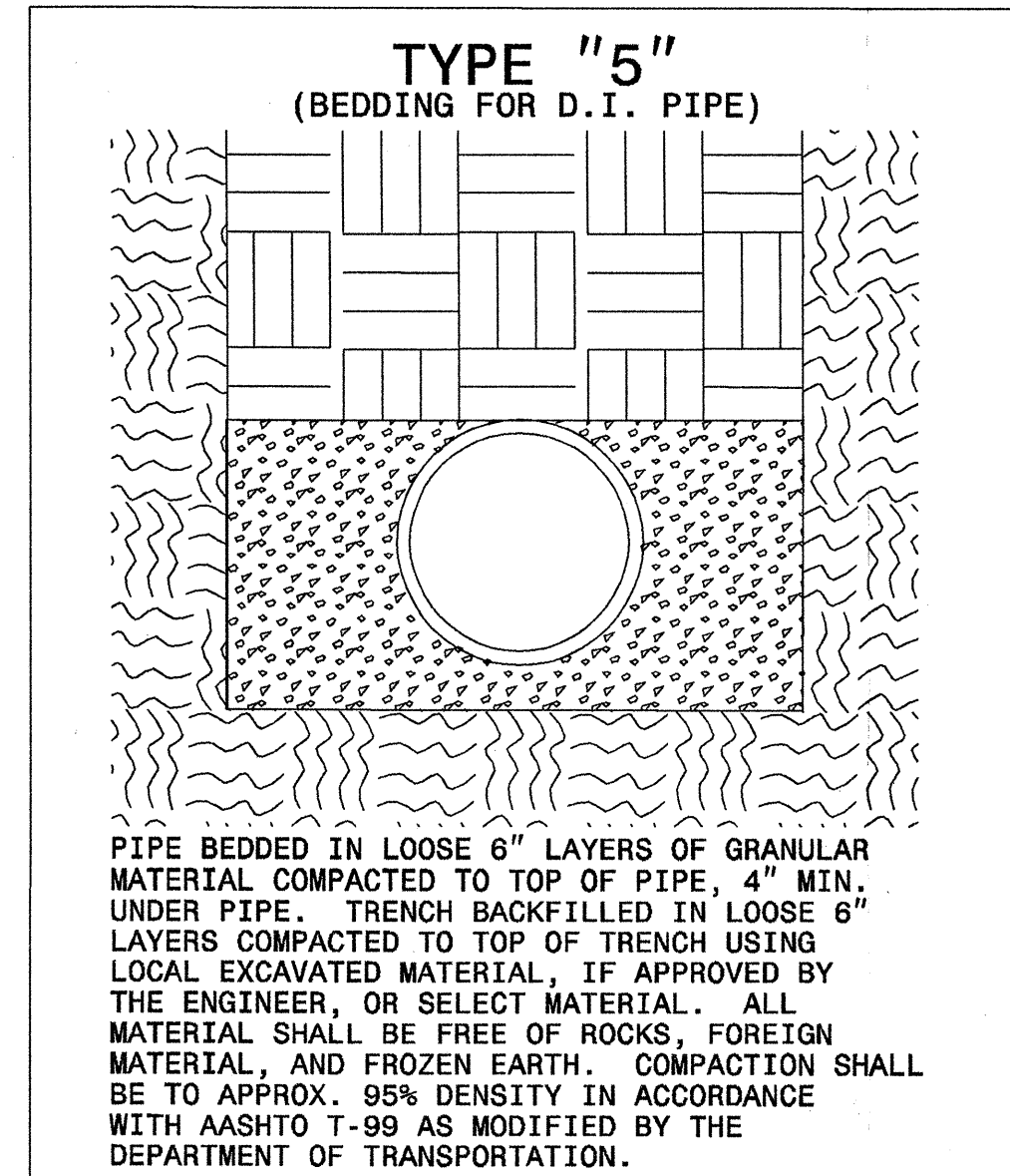
PIPE BEDDED IN LOOSE MATERIAL, LIGHTLY TAMPED WITH A MINIMUM OF 6" UNDER PIPE. TRENCH BACKFILLED IN LOOSE 6" LAYERS COMPACTED TO TOP OF TRENCH USING LOCAL EXCAVATED MATERIAL, IF APPROVED BY THE ENGINEER, OR SELECT MATERIAL. ALL MATERIAL SHALL BE FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH. COMPACTION SHALL BE TO APPROX. 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE DEPARTMENT OF TRANSPORTATION.



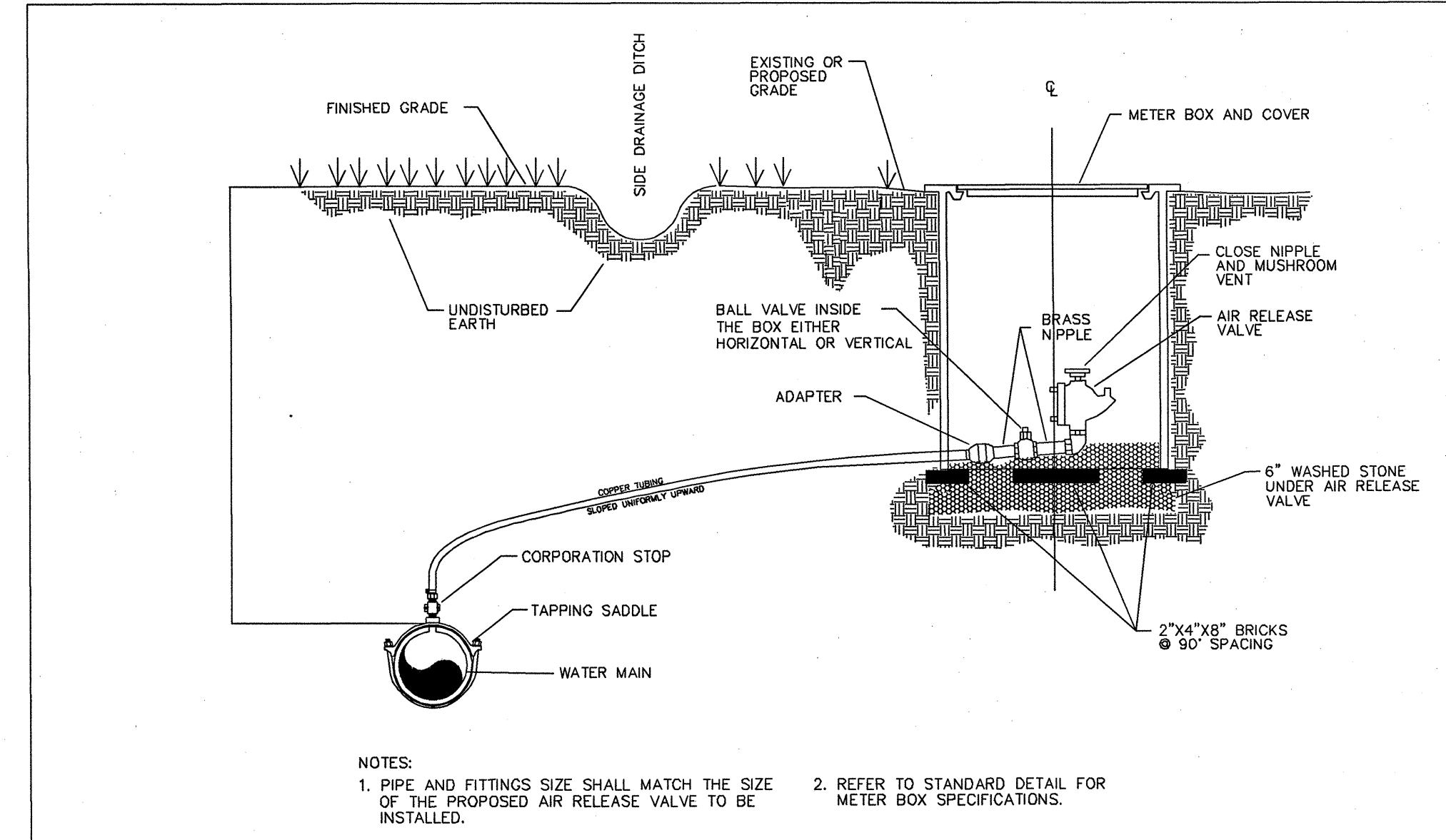
CITY OF ASHEVILLE, NC
 Engineering Department
NEW WATER LINE PRESSURE TEST BACKFLOW PREVENTION ASSEMBLY
 STD. NO. 7.18



CITY OF ASHEVILLE, NC
 Engineering Department
STANDARD MULTIPLE BRANCH SERVICES
 STD. NO. 7.05



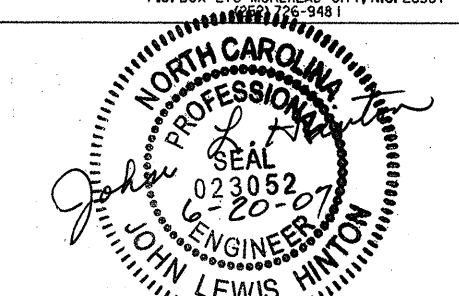
PIPE BEDDED IN LOOSE 6" LAYERS OF GRANULAR MATERIAL COMPACTED TO TOP OF PIPE, 4" MIN. UNDER PIPE. TRENCH BACKFILLED IN LOOSE 6" LAYERS COMPACTED TO TOP OF TRENCH USING LOCAL EXCAVATED MATERIAL, IF APPROVED BY THE ENGINEER, OR SELECT MATERIAL. ALL MATERIAL SHALL BE FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH. COMPACTION SHALL BE TO APPROX. 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE DEPARTMENT OF TRANSPORTATION.



CITY OF ASHEVILLE, NC
 Engineering Department
STANDARD AIR RELEASE VALVE INSTALLATION
 STD. NO. 7.15

ASHEVILLE, N.C. 28803

8/17/99



UTILITY CONSTRUCTION
1. REVISED 6/19/07 JLH
CITY OF ASHEVILLE COMMENTS

TABLE OF "A" DIMENSIONS (IN FEET)

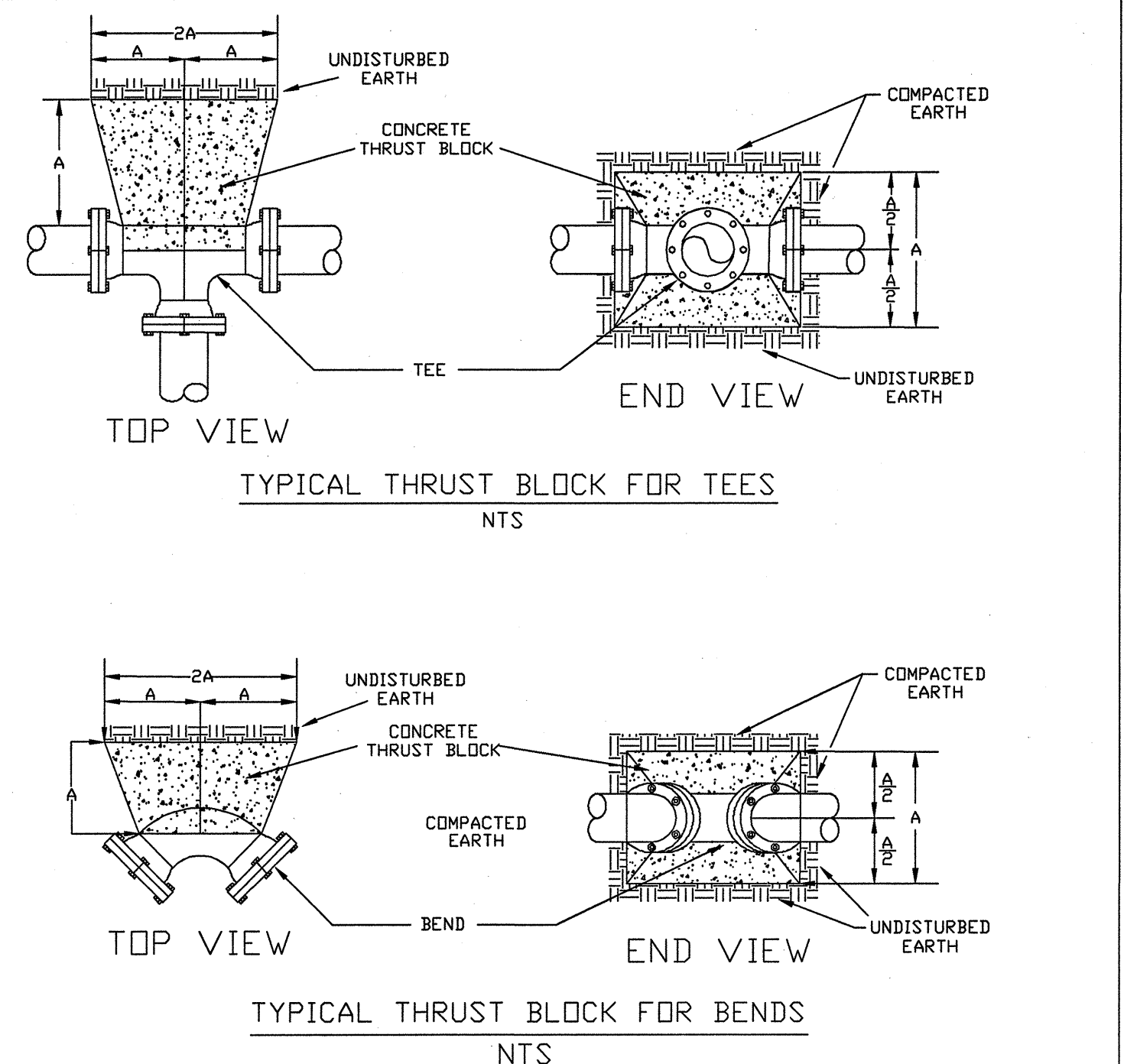
BEND	90	45	22 1/2	11 1/4	TEE
6	1.4	1.1	1.0	1.0	1.2
8	1.9	1.5	1.5	1.5	1.6
10	2.4	1.8	1.8	1.8	2.0
12	2.8	2.1	2.0	2.0	2.4
16	3.8	2.8	2.5	2.5	2.8
24	5.6	4.2	3.0	3.0	4.5

- NOTES:
1. ALL FITTINGS MUST BE RESTRAINED AS SPECIFIED IN SECTION 6.05 OF THE STANDARD SPECIFICATIONS AND DETAILS MANUAL.
 2. DIMENSION TABLE GIVEN IS A GUIDE ONLY. ENGINEER SHALL BE RESPONSIBLE TO CALCULATE THRUST BLOCK DIMENSIONS BASED ON ACTUAL SOIL AND OPERATING PRESSURE CONDITIONS.
 3. FITTING JOINTS SHALL BE KEPT FREE OF CONCRETE. A LAYER OF POLYETHYLENE PLASTIC SHALL BE PLACED BETWEEN THE FITTING AND THE CONCRETE.
 4. PRE-CAST THRUST BLOCKS ARE NOT ACCEPTABLE.
 5. CONCRETE SHALL HAVE 4000 P.S.I. COMPRESSIVE STRENGTH.

REVISIONS

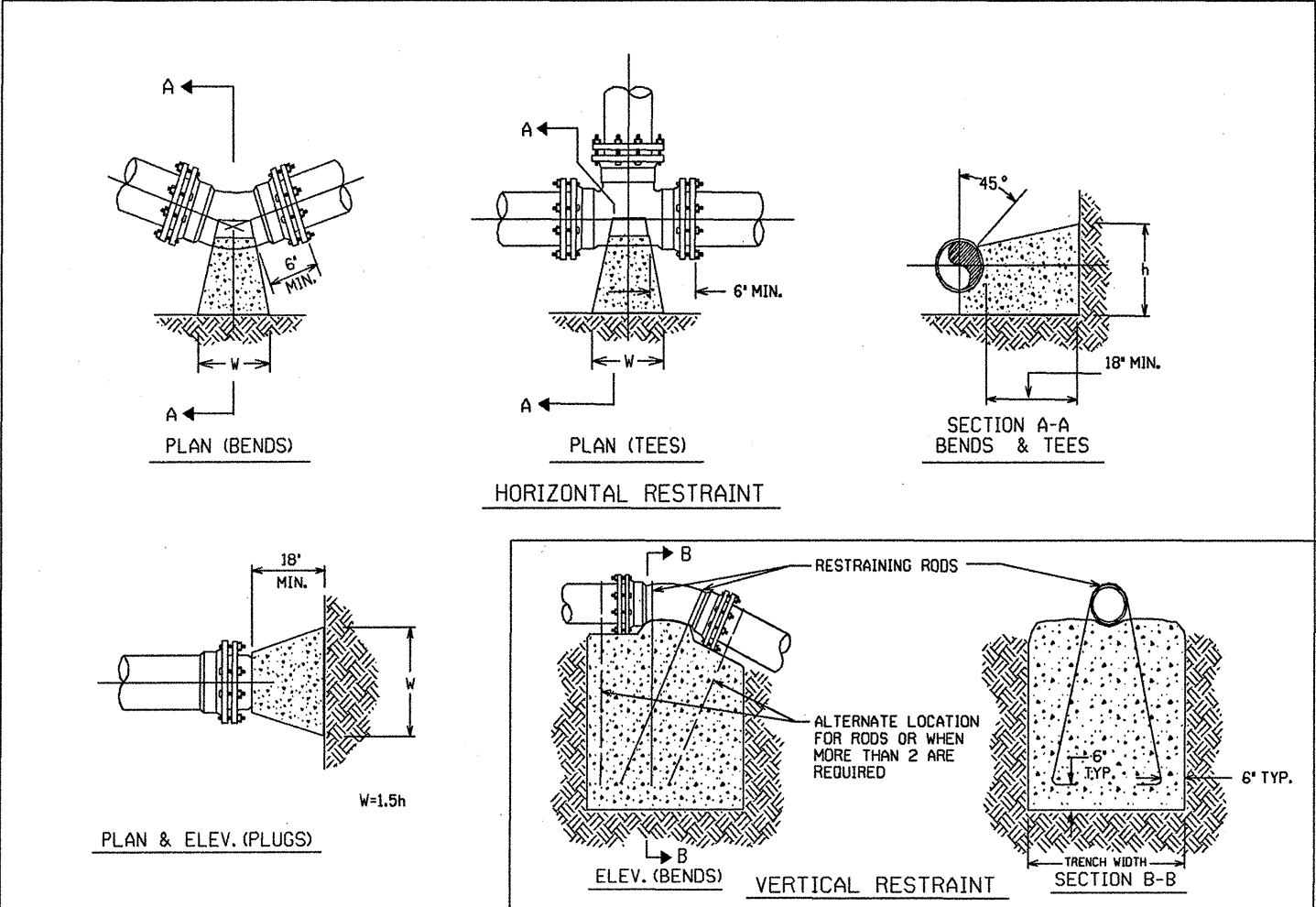
DATE	DESCRIPTION
08/99	
09/00	4000 P.S.I. CONCRETE SPECIFIED

CITY OF ASHEVILLE, N.C. ENGINEERING DEPARTMENT

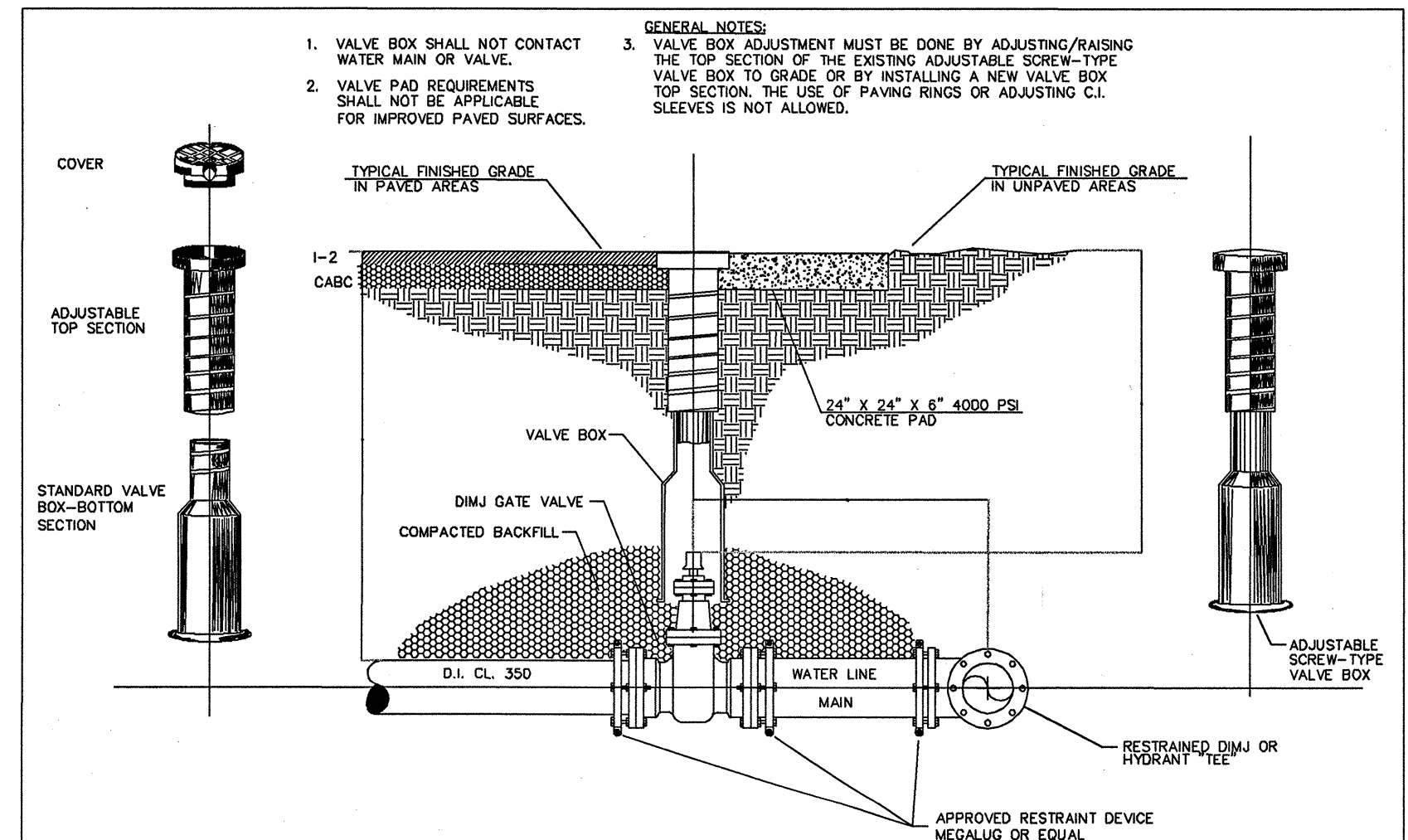


THRUST BLOCKS FOR FITTINGS

STD. No. 6.13

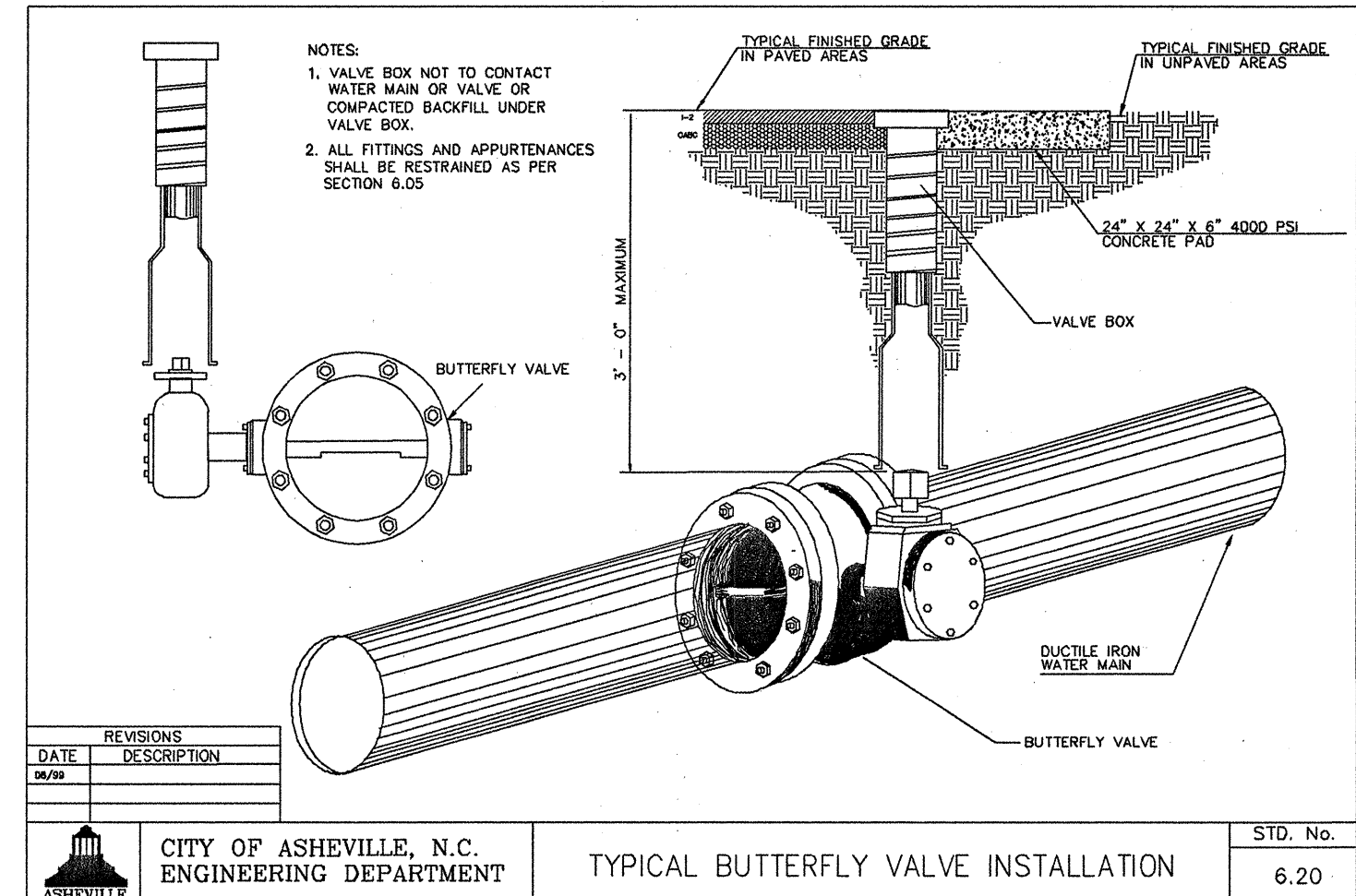


THRUST RESTRAINT FOR PIPE LINES



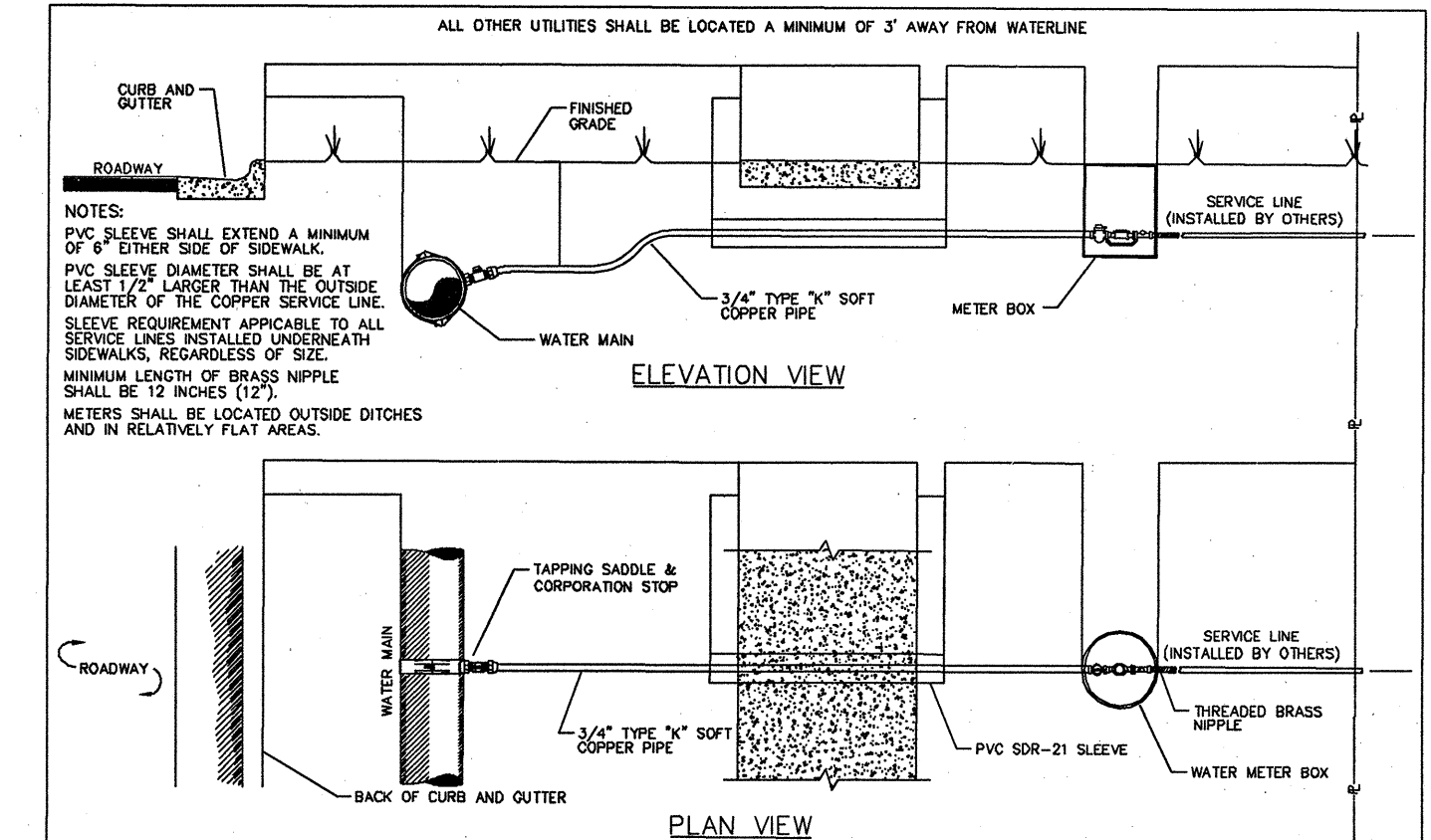
TYPICAL VALVE & VALVE BOX INSTALLATION / ADJUSTMENT

STD. No. 7.13



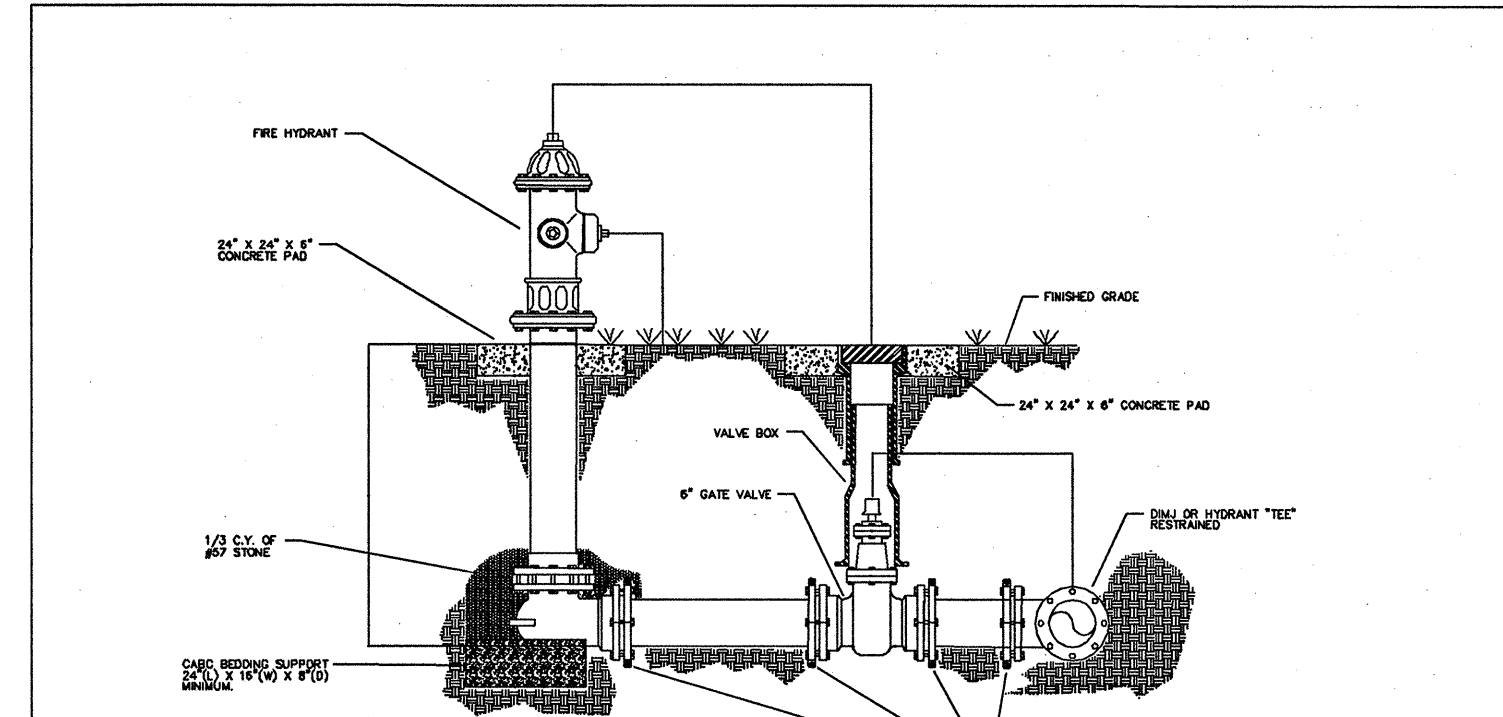
TYPICAL BUTTERFLY VALVE INSTALLATION

STD. No. 6.20



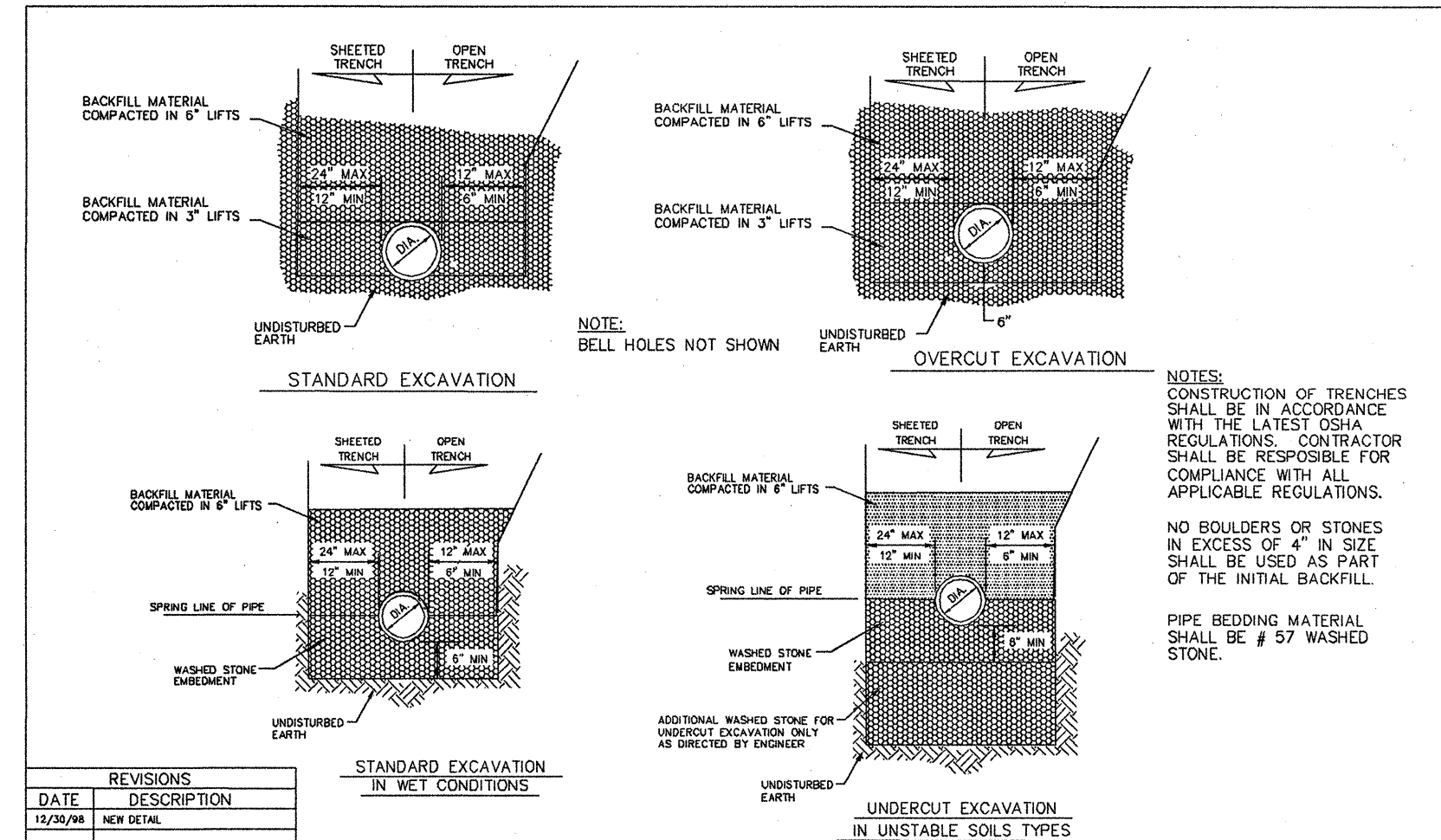
TYPICAL WATER METER INSTALLATION

STD. No. 7.06



FIRE HYDRANT INSTALLATION

STD. No. 7.10



TYPICAL TRENCH DETAIL

STD. No. 6.19

8/17/99

T.I.P. NO.	SHEET NO.
37831	UO-1

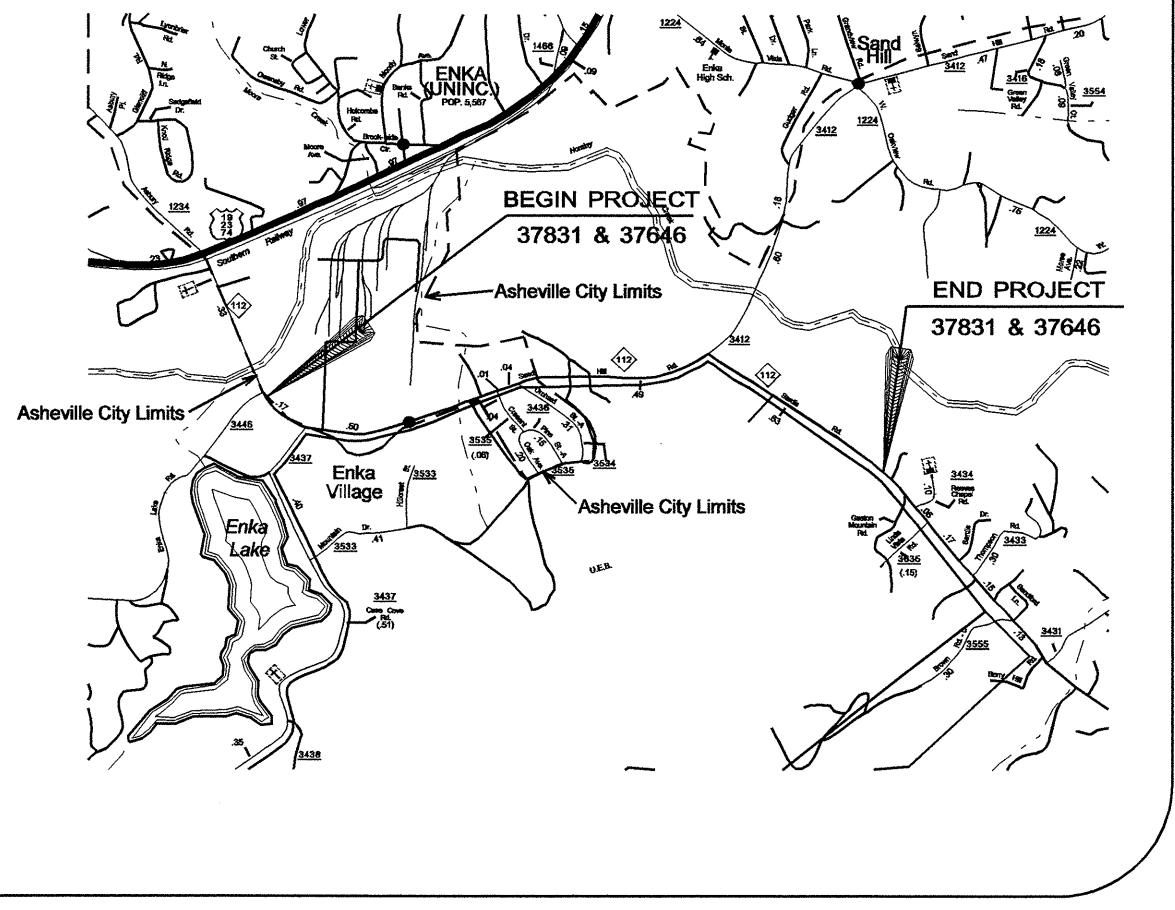
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

**UTILITY BY OTHERS PLANS
BUNCOMBE COUNTY**

**LOCATION: NC 112 SAND HILL ROAD AND SARDIS ROAD FROM WEST
OF SR 3437 LAKE DRIVE TO 2500' EAST OF INTERSECTION OF
SAND HILL RD. SR 3412 WITH SARDIS RD NC 112**

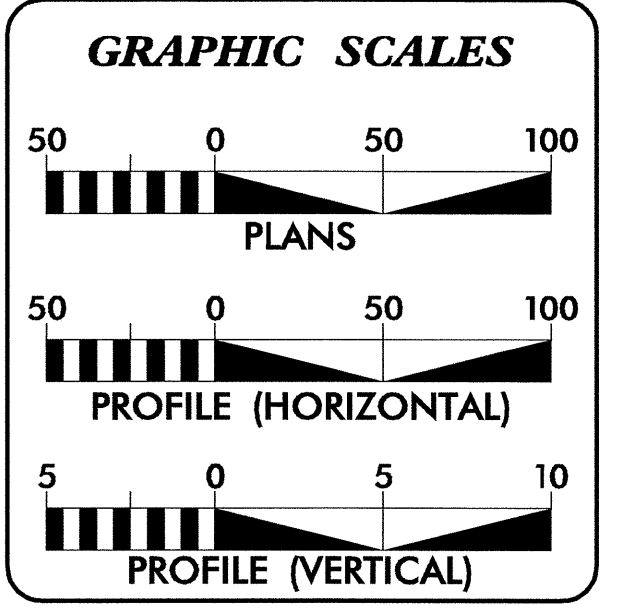
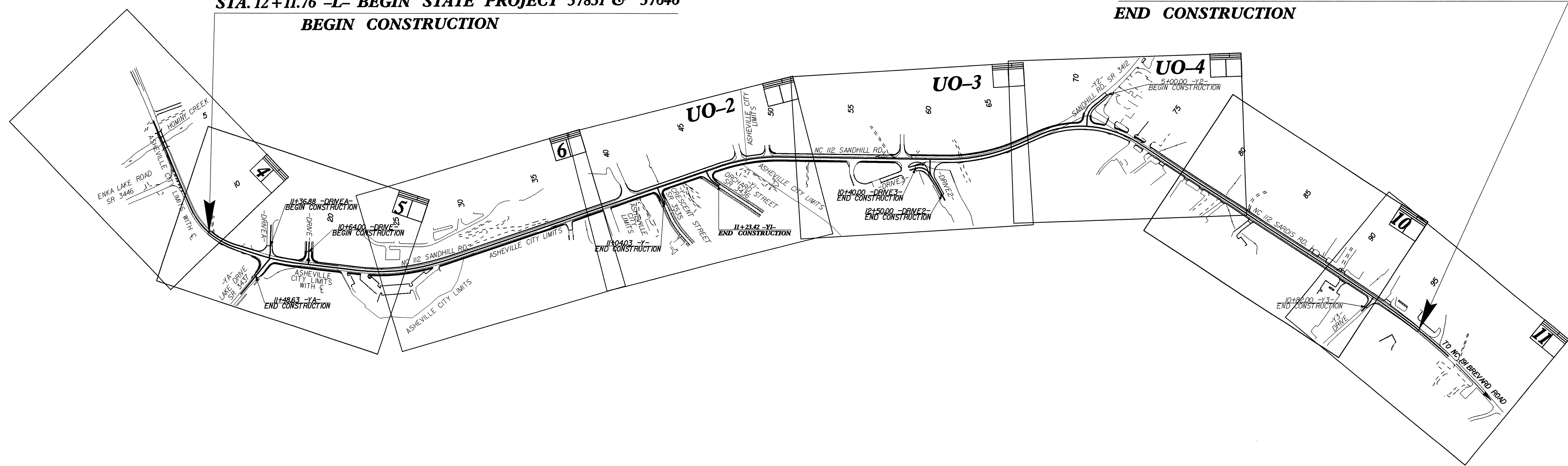
TYPE OF WORK: UTILITIES CONFLICTS

PROJECT: 37831



STA. 12+11.76 -L- BEGIN STATE PROJECT 37831 & 37646
BEGIN CONSTRUCTION

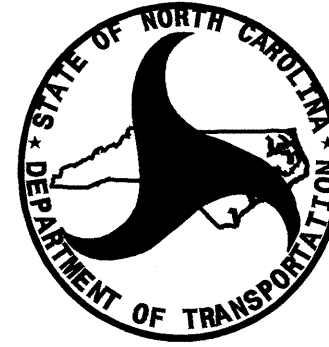
STA. 95+83.50 -L- END STATE PROJECT 37831 & 37646
END CONSTRUCTION



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
UO-1	TITLE SHEET
UO-2 THRU UO-4	UTILITY BY OTHERS PLAN SHEETS

- UTILITY OWNERS ON PROJECT**
- PROGRESS ENERGY
 - AT&T
 - PUBLIC SERVICE OF NORTH CAROLINA
 - CHARTER COMMUNICATIONS



PREPARED IN THE OFFICE OF:
**DIVISION OF HIGHWAYS
PROJECT SERVICES
UTILITIES SECTION**

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

Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Carl Barclay, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
Bo Hemphill, P.E. UTILITIES PROJECT DESIGNER

13-SEP-2007 09:02
s:\spc\des\util\files\cab\vm\37831\proj\37831_ut_uo_tsh.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$

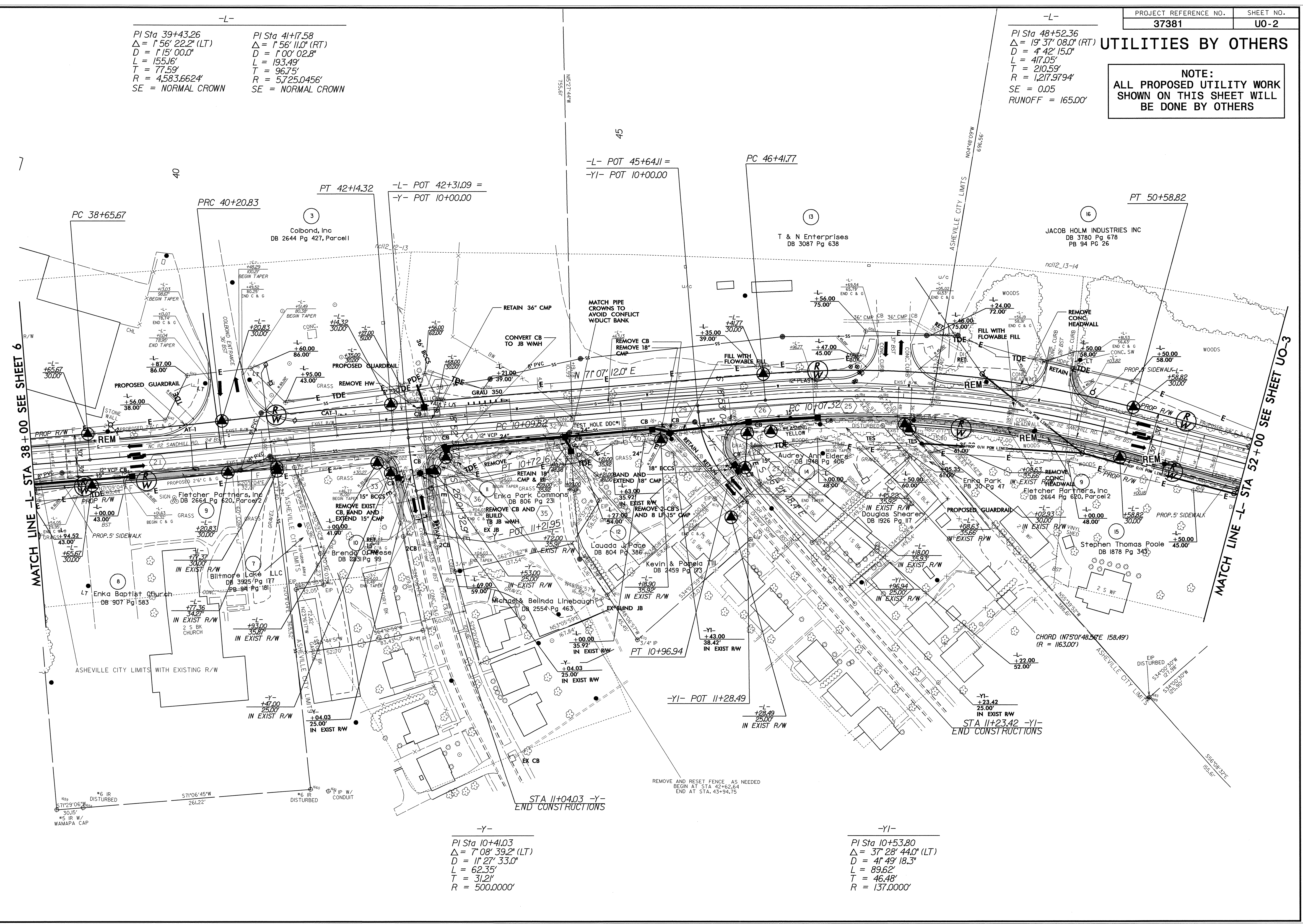
PI Sta 39+43.26
 $\Delta = 1^{\circ} 56' 22.2''$ (LT)
 $D = 1^{\circ} 15' 00.0''$
 $L = 155.16'$
 $T = 77.59'$
 $R = 4,583.6624'$
 SE = NORMAL CROWN

PI Sta 41+17.58
 $\Delta = 1^{\circ} 56' 11.0''$ (RT)
 $D = 1^{\circ} 00' 02.8''$
 $L = 193.49'$
 $T = 96.75'$
 $R = 5,725.0456'$
 SE = NORMAL CROWN

PI Sta 48+52.36
 $\Delta = 1^{\circ} 37' 08.0''$ (RT)
 $D = 4^{\circ} 42' 15.0''$
 $L = 417.05'$
 $T = 210.59'$
 $R = 1,217.9794'$
 SE = 0.05
 RUNOFF = 165.00'

UTILITIES BY OTHERS

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



MATCH LINE -L- STA 38+00 SEE SHEET 6

MATCH LINE -L- STA 52+00 SEE SHEET UO-3

-Y-
 PI Sta 10+41.03
 $\Delta = 7^{\circ} 08' 39.2''$ (LT)
 $D = 11^{\circ} 27' 33.0''$
 $L = 62.35'$
 $T = 31.21'$
 $R = 500.0000'$

-YI-
 PI Sta 10+53.80
 $\Delta = 37^{\circ} 28' 44.0''$ (LT)
 $D = 41^{\circ} 49' 18.3''$
 $L = 89.62'$
 $T = 46.48'$
 $R = 137.0000'$

13-SEP-2007 09:50 c:\des\utilities\37381\proj\37381-ut-7_uo2_psh.dgn

UTILITIES BY OTHERS

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

-L-
PI Sta 63+63.61
 $\Delta = 25^{\circ} 20' 30.0''$ (LT)
D = 5' 00' 00.0"
L = 506.83'
T = 257.63'
R = 1,145.9156'
SE = 0.051
RUNOFF = 165.00'

BellSouth
PO Box 1221
Charlotte, NC 28201
(704) 424-1435
Contact: Krista Tillman

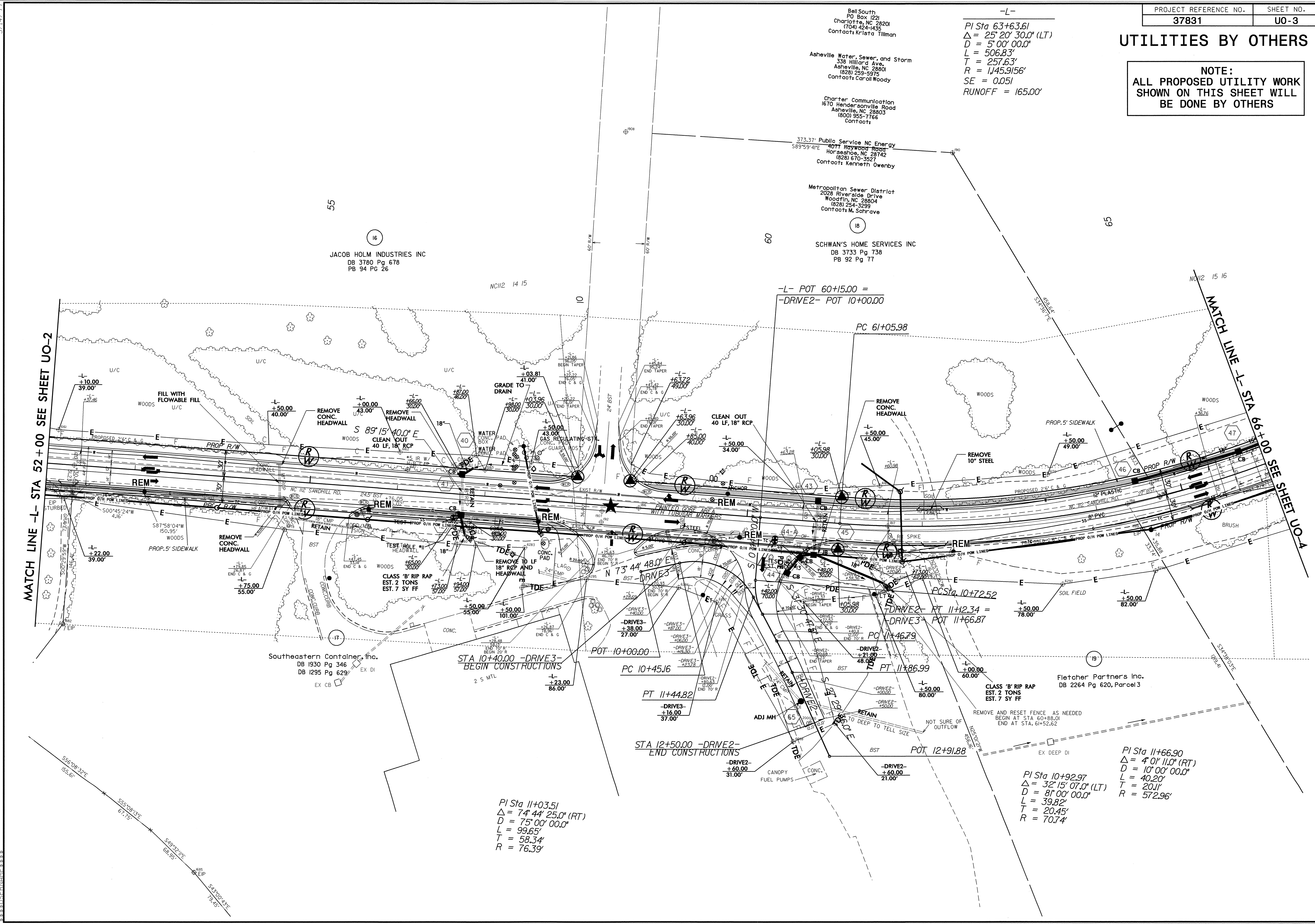
Asheville Water, Sewer, and Storm
338 Hilliard Ave.
Asheville, NC 28801
(828) 259-5975
Contact: Carol Woody

Charter Communication
1670 Hendersonville Road
Asheville, NC 28803
(800) 955-7766
Contact:

373.37' Public Service NC Energy
589'59'41"E 4077 Raywood Road
Horsehoe, NC 28742
(828) 670-3527
Contact: Kenneth Owenby

Metropolitan Sewer District
2028 Riverside Drive
Woodfin, NC 28804
(828) 254-3299
Contact: M. Schraive

SCHWAN'S HOME SERVICES INC
DB 3733 Pg 738
PB 92 Pg 77



MATCH LINE -L- STA 52+00 SEE SHEET UO-2

MATCH LINE -L- STA 66+00 SEE SHEET UO-A

JACOB HOLM INDUSTRIES INC
DB 3780 Pg 678
PB 94 Pg 26

Southeastern Container, Inc.
DB 1930 Pg 346
DB 1295 Pg 629

Fletcher Partners Inc.
DB 2264 Pg 620, Parcel 3

PI Sta 11+03.51
 $\Delta = 74^{\circ} 44' 25.0''$ (RT)
D = 75' 00' 00.0"
L = 99.65'
T = 58.34'
R = 76.39'

PI Sta 11+66.90
 $\Delta = 4^{\circ} 01' 11.0''$ (RT)
D = 10' 00' 00.0"
L = 40.20'
T = 20.11'
R = 572.96'

PI Sta 10+92.97
 $\Delta = 32^{\circ} 15' 07.0''$ (LT)
D = 81' 00' 00.0"
L = 39.82'
T = 20.45'
R = 70.74'

13-SEP-2007 09:48 c:\psh\proj\37831\ut_8_uo3_psh.dgn

UTILITIES BY OTHERS

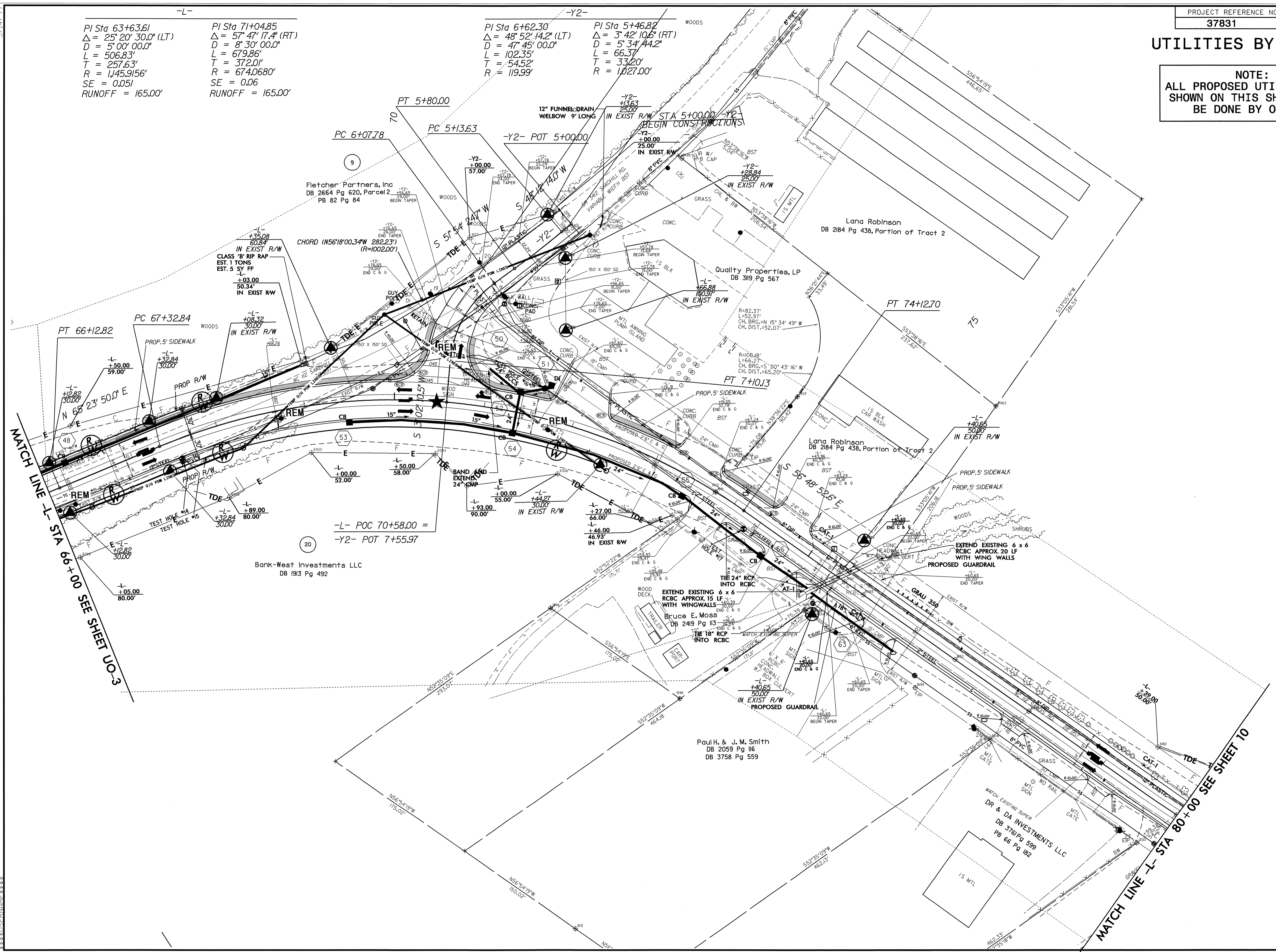
NOTE:
ALL PROPOSED UTILITY WORK
SHOWN ON THIS SHEET WILL
BE DONE BY OTHERS

PI Sta 63+63.61
Δ = 25° 20' 30.0" (LT)
D = 5' 00' 00.0"
L = 506.83'
T = 257.63'
R = 1,145.9156'
SE = 0.051
RUNOFF = 165.00'

PI Sta 71+04.85
Δ = 57° 47' 17.4" (RT)
D = 8' 30' 00.0"
L = 679.86'
T = 372.01'
R = 674.0680'
SE = 0.06
RUNOFF = 165.00'

PI Sta 6+62.30
Δ = 48° 52' 14.2" (LT)
D = 47' 45' 00.0"
L = 102.35'
T = 54.52'
R = 119.99'

PI Sta 5+46.82
Δ = 3° 42' 10.6" (RT)
D = 5' 34' 44.2"
L = 66.37'
T = 33.20'
R = 1027.00'



5/14/09
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