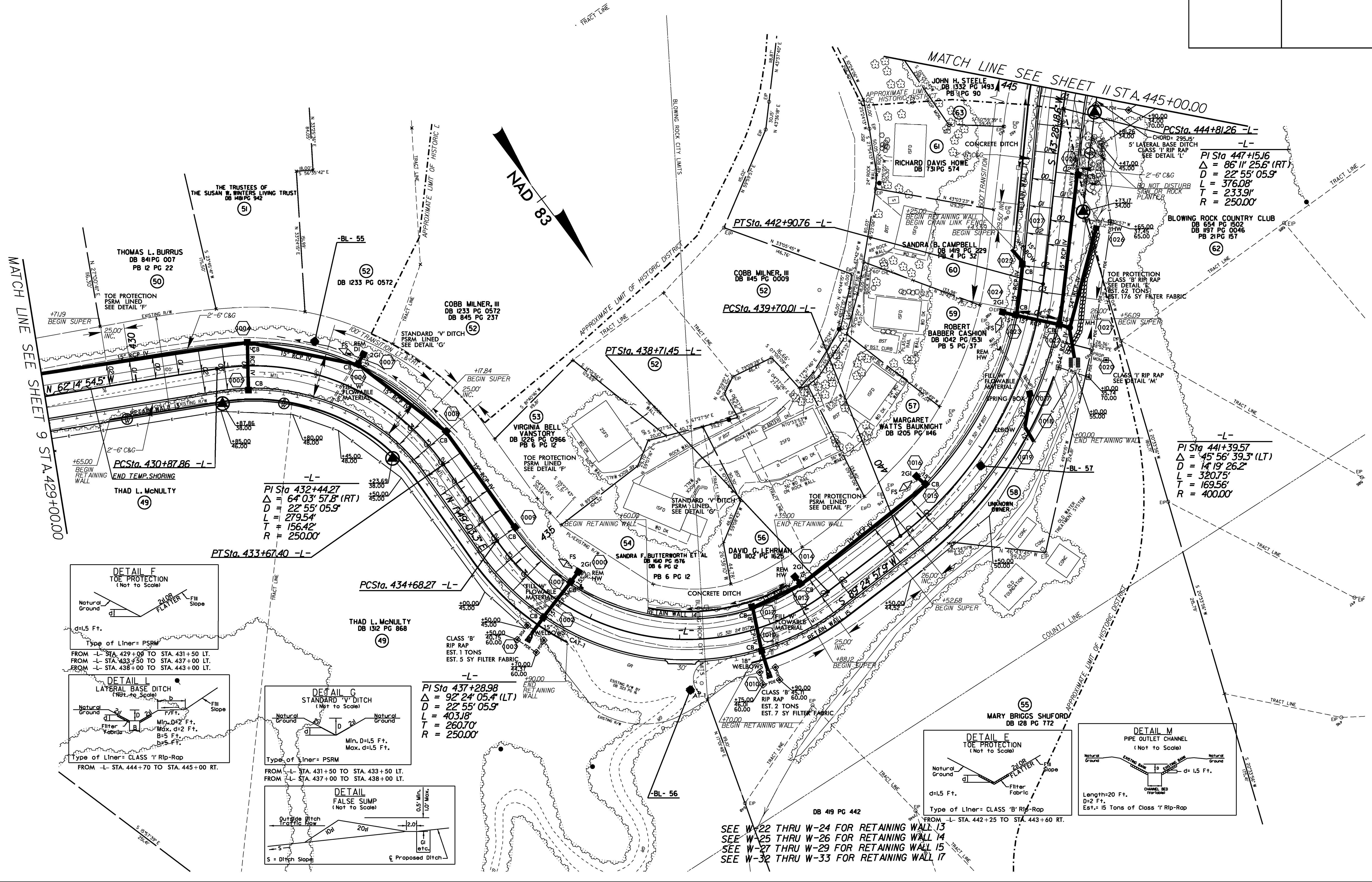


PROJECT REFERENCE NO.	SHEET NO.
R-2237C	10
R/W SHEET NO.	10
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



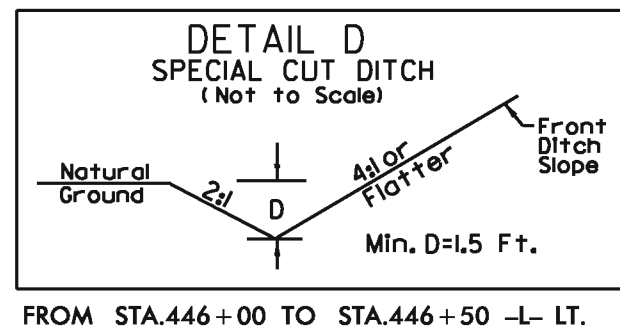
REVISIONS

15-AUG-2011 09:22 R-2237C-rdy.psh [0.dgn]
15-AUG-2011 09:22 R-2237C-rdy.psh [0.dgn]

SEE W-22 THRU W-24 FOR RETAINING WALL 13
SEE W-25 THRU W-26 FOR RETAINING WALL 14
SEE W-27 THRU W-29 FOR RETAINING WALL 15
SEE W-30 THRU W-33 FOR RETAINING WALL 17

5/14/99

NOTE: SEE SHEET 25 FOR -L- & -LI- PROFILES
SEE SHEET 30 FOR -Y3- & -Y4- PROFILES
SEE SHEET 2-G FOR -Y3- & -Y4/-L- INTERSECTION DETAILS



-Y3-			
PI Sta 10+71.75 $\Delta = 36' 17'' 18.8''$ (RT) $D = 38' 11'' 49.9''$ $L = 95.00'$ $T = 49.16'$ $R = 150.00'$	PI Sta 11+96.30 $\Delta = 7' 18'' 59.4''$ (LT) $D = 28' 38'' 52.4''$ $L = 25.54'$ $T = 12.79'$ $R = 200.00'$	PI Sta 12+79.60 $\Delta = 9' 27'' 58.8''$ (LT) $D = 28' 38'' 52.4''$ $L = 33.04'$ $T = 16.56'$ $R = 200.00'$	PI Sta 14+64.00 $\Delta = 67' 00'' 18.1''$ (RT) $D = 114' 35'' 29.6''$ $L = 58.47'$ $T = 33.10'$ $R = 50.00'$

BLOWING ROCK ATTRACTIONS, INC.
DB #20 PG 1579
(64) (42)

-L-
PI Sta 447+15.16
 $\Delta = 86' 11'' 25.6''$ (RT)
 $D = 22' 55'' 05.9''$
 $L = 376.08'$
 $T = 233.91'$
 $R = 250.00'$

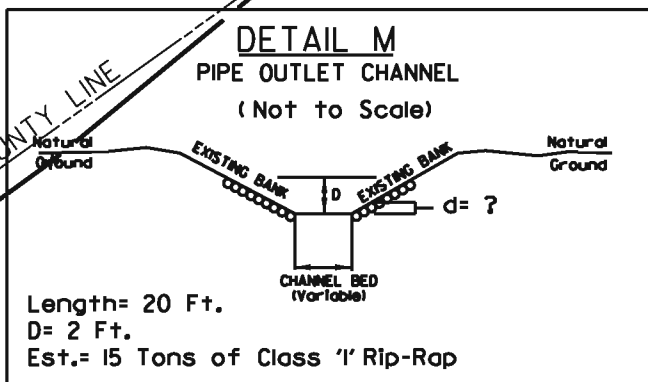
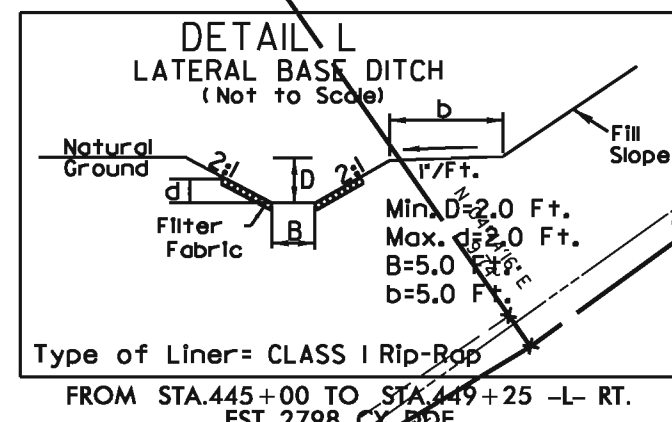
-LI-
PI Sta 454+87.91
 $\Delta = 6' 26'' 30.9''$ (RT)
 $D = 1' 08'' 45.3''$
 $L = 562.16'$
 $T = 281.38'$
 $R = 5,000.00'$

PCSta. 452+06.53 -LI-

PTSta. 457+68.69 -LI-

MATCH LINE SEE SHEET 10 STA. 445+00.00

MATCH LINE SEE SHEET 12 STA. 458+00.00



-L-
PI Sta 455+79.22
 $\Delta = 8' 35'' 35.2''$ (RT)
 $D = 1' 08'' 45.3''$
 $L = 749.89'$
 $T = 375.65'$
 $R = 5,000.00'$

-Y4-		
PI Sta 11+60.68 $\Delta = 9' 18'' 33.2''$ (LT) $D = 18' 58'' 19.6''$ $L = 49.07'$ $T = 24.59'$ $R = 302.00'$	PI Sta 12+26.93 $\Delta = 78' 13'' 11.1''$ (LT) $D = 130' 13'' 03.7''$ $L = 60.07'$ $T = 35.77'$ $R = 44.00'$	PI Sta 12+76.56 $\Delta = 3' 50'' 58.4''$ (LT) $D = 1' 30'' 18.6''$ $L = 33.46'$ $T = 16.74'$ $R = 498.00'$

SEE W-32 THRU W-33 FOR RETAINING WALL 17 L
SEE W-34 THRU W-35 FOR RETAINING WALL 18 T

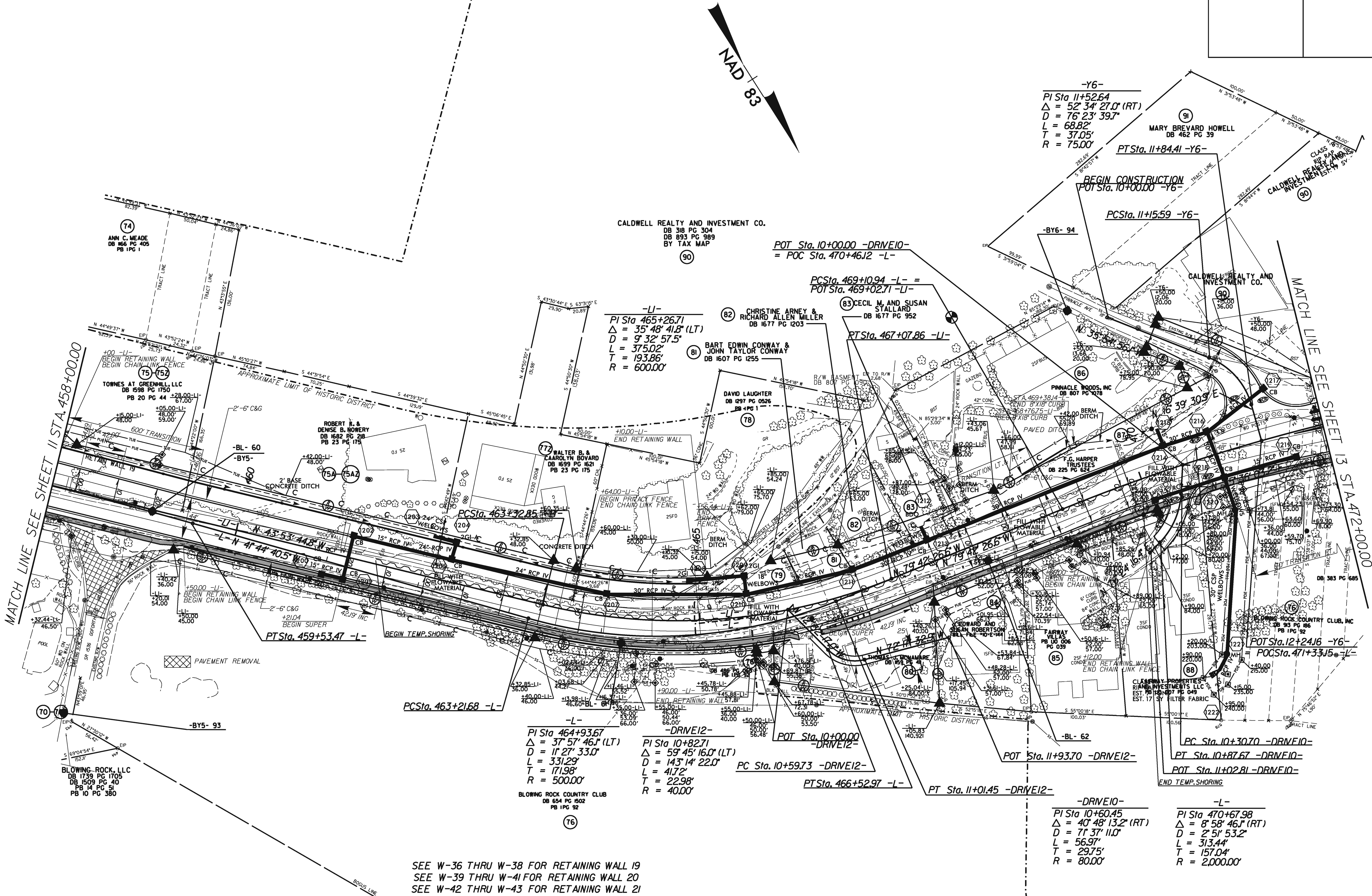
REVISIONS

15-AUG-2010 09:22 N-2237C.rdw psh11.dgn

5/14/99

NOTE: SEE SHEETS 25 & 26 FOR -L- & -LI- PROFILES
SEE SHEET 30 FOR -Y6- PROFILE
SEE SHEET 34 FOR -DRIVE10- PROFILE
SEE SHEET 2-G FOR -Y6-/-L- INTERSECTION DETAIL

PROJECT REFERENCE NO.	SHEET NO.
R-2237C	12
R/W SHEET NO.	
12	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



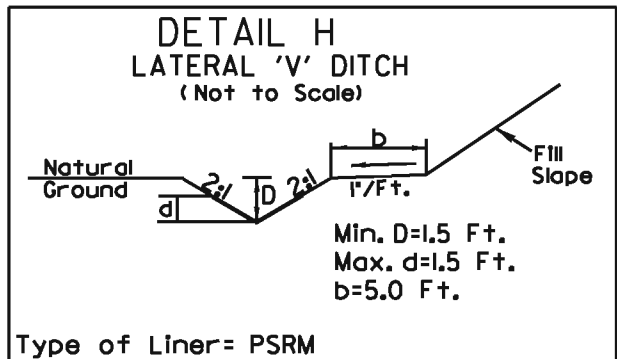
REVISIONS

15-AUG-2010 09:22:22 R-2237C-rdy.psh12.dgn
15-AUG-2010 09:22:22 R-2237C-rdy.psh12.dgn
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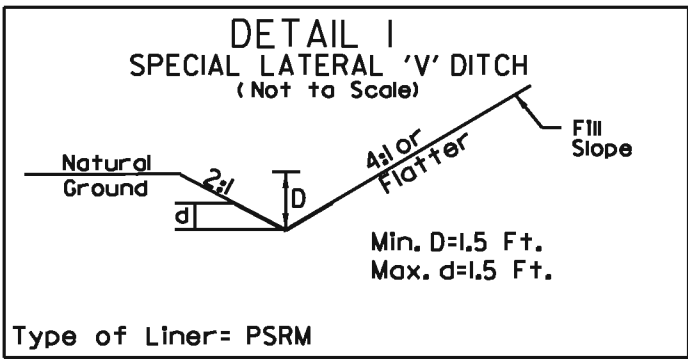
SEE W-36 THRU W-38 FOR RETAINING WALL 19
SEE W-39 THRU W-41 FOR RETAINING WALL 20
SEE W-42 THRU W-43 FOR RETAINING WALL 21

NOTE: SEE SHEET 26 FOR -L- PROFILE
SEE SHEET 31 FOR -Y7- & -Y8- PROFILES
SEE SHEET 2-G FOR -Y7-/-L- INTERSECTION DETAIL
SEE SHEET 2-H FOR -Y8-/-L- INTERSECTION DETAIL

PROJECT REFERENCE NO.	SHEET NO.
R-2237C	13
R/W SHEET NO.	13
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



Type of Liner= PSRM
FROM STA.474+50 TO STA.475+40 -L- RT.
EST. 91 CY DDE



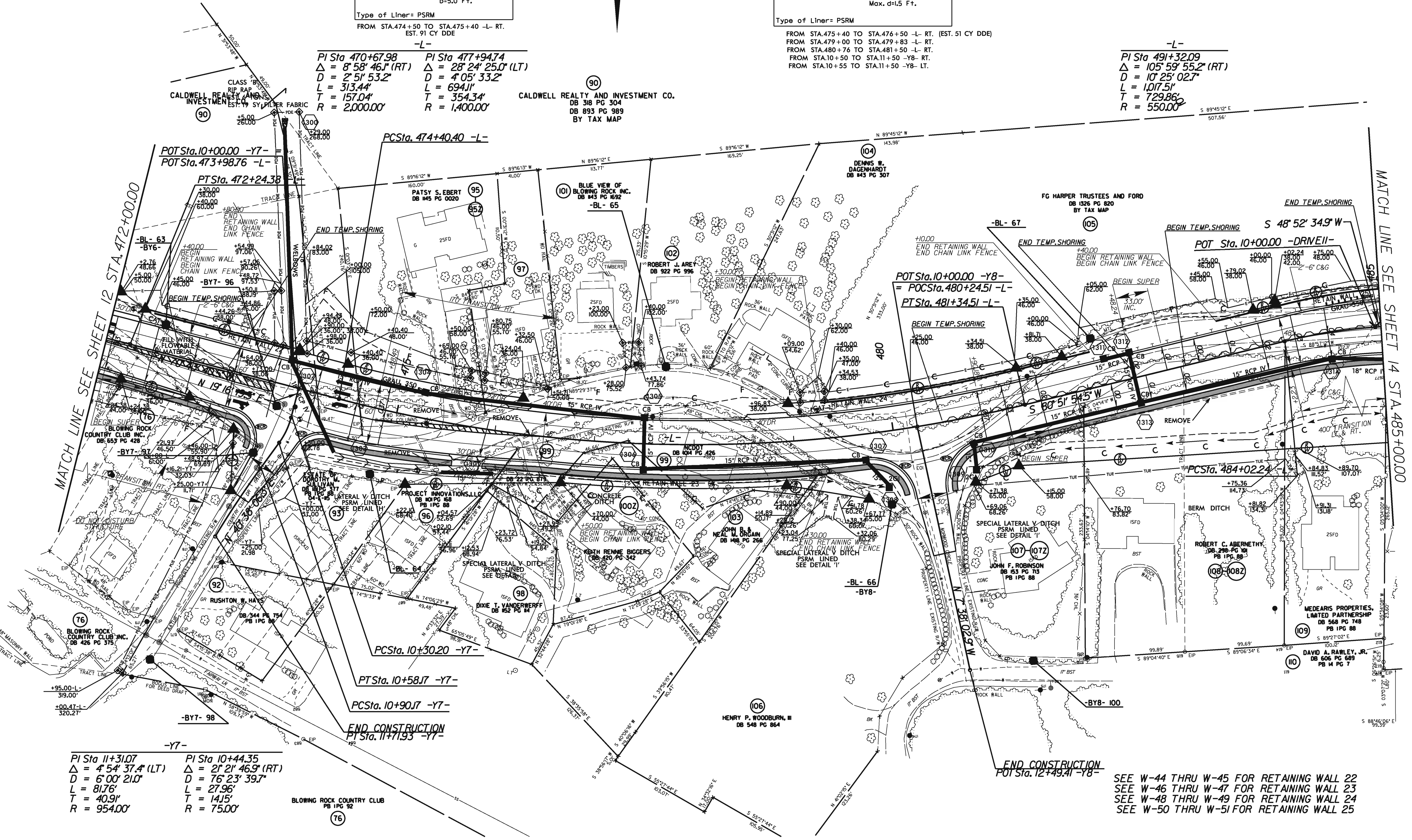
Type of Liner= PSRM
FROM STA.475+40 TO STA.476+50 -L- RT. (EST. 51 CY DDE)
FROM STA.479+00 TO STA.479+83 -L- RT.
FROM STA.480+76 TO STA.481+50 -L- RT.
FROM STA.10+50 TO STA.11+50 -Y8- RT.
FROM STA.10+55 TO STA.11+50 -Y8- LT.

-L-
PI Sta 491+32.09
Δ = 105° 59' 55.2" (RT)
D = 10° 25' 02.7"
L = 1,017.51'
T = 729.86'
R = 550.00'

-L-
PI Sta 470+67.98
Δ = 8° 58' 46.1" (RT)
D = 2° 51' 53.2"
L = 313.44'
T = 157.04'
R = 2,000.00'

PI Sta 477+94.74
Δ = 28° 24' 25.0" (LT)
D = 4° 05' 33.2"
L = 694.11'
T = 354.34'
R = 1,400.00'

CALDWELL REALTY AND INVESTMENT CO.
DB 318 PG 304
DB 893 PG 989
BY TAX MAP



-Y7-
PI Sta 11+31.07
Δ = 4° 54' 37.4" (LT)
D = 6° 00' 21.0"
L = 81.76'
T = 40.91'
R = 954.00'

PI Sta 10+44.35
Δ = 21° 21' 46.9" (RT)
D = 76° 23' 39.7"
L = 27.96'
T = 14.15'
R = 75.00'

SEE W-44 THRU W-45 FOR RETAINING WALL 22
SEE W-46 THRU W-47 FOR RETAINING WALL 23
SEE W-48 THRU W-49 FOR RETAINING WALL 24
SEE W-50 THRU W-51 FOR RETAINING WALL 25

REVISIONS

THRU W-51 FOR RETAINING WALL 25
THRU W-53 FOR RETAINING WALL 26
THRU W-55 FOR RETAINING WALL 27
THRU W-57 FOR RETAINING WALL 28
THRU W-82 FOR RETAINING WALL 40

DETAIL J
STANDARD 'V' DITCH
(Not to Scale)

Natural Ground

2:1

D

2:3

Natural Ground

Min. D=1.0 Ft.

FROM STA. 491+00 TO STA. 491+77 -L- LT.

REVISIONS

~~POB Sta. 10+00.00 -Y10-~~
~~POB Sta. 10+00.00 -Y10REV-~~

CAPITAL IDEAS, INC.
DB #28 PG 953
DB #28 PG 956
PB 10 PG 61

MARY BOST C. GRAY 1953 TRUST
(CALDWELL)
DB 1237 PG 277
PB 17 PG 250

SARAH S SWANSON
DB 306 PG 349

CAROL BANNER COFFE
DB 45 PG 593
DB 54 PG 583
88E-166
DB 758 PG 750

-Y9A-

PI Sta 11+53.18
 $\Delta = 1^{\circ} 21' 47''$ (RT)
 $D = 0^{\circ} 44' 59.8''$
 $L = 181.76'$
 $T = 90.88'$
 $R = 7,640.00'$

~~$$\begin{aligned} & \text{POC Sto. II} + 52.75 \text{ Y9A} \\ & = \text{POT Sto. II} + 37.42 \text{ Y9} \end{aligned}$$~~[illegible]

DETAIL F
TOE PROTECTION
(Not to Scale)

Natural Ground

d

24.0% FLATTER

Fill Slope

d=1.5 Ft.

Type of Liner= PSRM

FROM STA.495+25 TO STA.497+00 -L- LT.

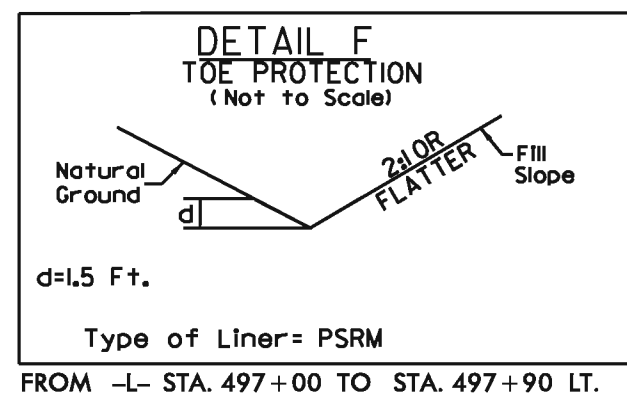
15-AUG-2011 09:23
R:\Roadway\proj\2237c-rdy\psh14.dgn
\$\$\$\$USERNAME\$\$\$\$

5/14/99

PROJECT REFERENCE NO.		SHEET NO.
R-2237C		15
RW SHEET NO.		15
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER

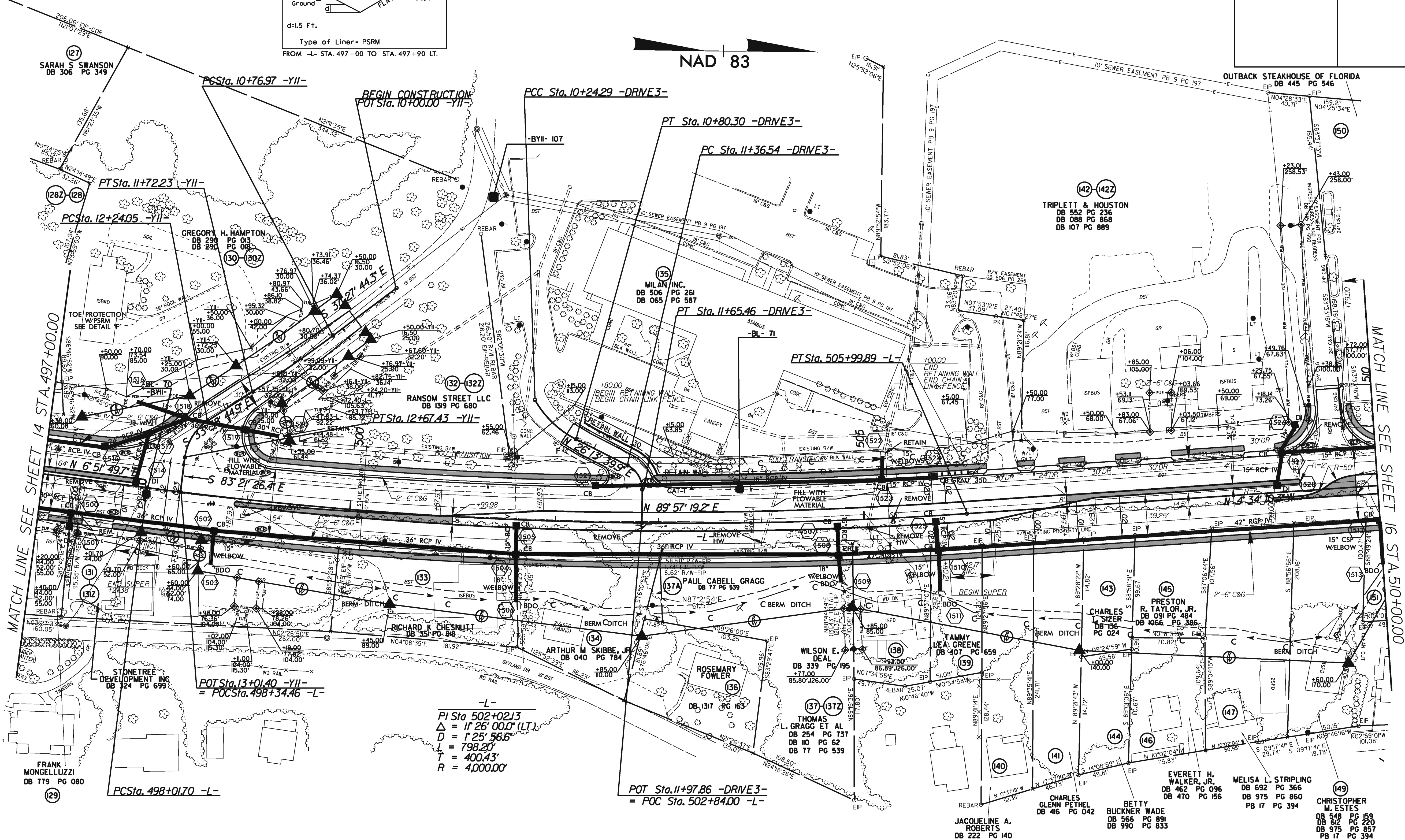
NOTE: SEE SHEET 27 FOR -L- PROFILE
SEE SHEET 31 FOR -YII- PROFILE
SEE SHEET 2-H FOR -YII-/-L- INTERSECTION DETAIL
SEE SHEET 33 FOR -DRIVE3- PROFILE

-YII-
PI Sta 11+2462
 $\Delta = 3' 48'' 59.4''$ (RT)
D = 4' 00' 24.1"
L = 95.25'
T = 47.64'
R = 1430.00'
PI Sta 12+47.21
 $\Delta = 49' 42'' 41.5''$ (LT)
D = 114' 35' 29.6"
L = 43.38'
T = 23.16'
R = 50.00'



-DRIVE3-
PI Sta 10+14.25
 $\Delta = 75' 13'' 19.2''$ (LT)
D = 309' 42' 24.9"
L = 24.29'
T = 14.25'
R = 18.50'
PI Sta 10+53.14
 $\Delta = 33' 46'' 59.3''$ (LT)
D = 60' 18' 40.8"
L = 56.01'
T = 28.85'
R = 95.00'
PI Sta 11+52.71
 $\Delta = 63' 43'' 39.3''$ (RT)
D = 220' 22' 06.2"
L = 28.92'
T = 16.16'
R = 26.00'

NAD 83



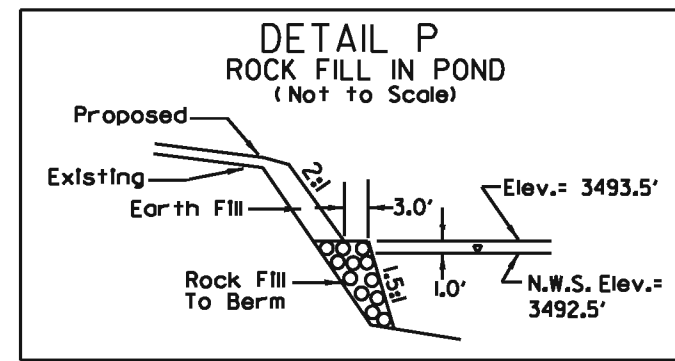
SEE W-58 THRU W-59 FOR RETAINING WALL 29
SEE W-60 THRU W-61 FOR RETAINING WALL 30

5/14/99

NOTE: SEE SHEET 28 FOR -L- PROFILE
SEE SHEET 32 FOR -Y13- & -Y14- PROFILE
SEE SHEET 2-1 FOR -Y13- & -Y14-/-L- INTERSECTION DETAILS
SEE SHEET 38 FOR -DRIVE4- PROFILE

PROJECT REFERENCE NO.		SHEET NO.
R-2237C		17
RW SHEET NO.		17
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	

NAD 83



-DRIVE4-
PI Sta 10+41.51
 $\Delta = 50' 30' 20.0''$ (LT)
D = 65' 06' 31.8"
L = 77.57'
T = 41.51'
R = 88.00'

BEGIN CONSTRUCTION
POT Sta. 10+00.00 -Y13-

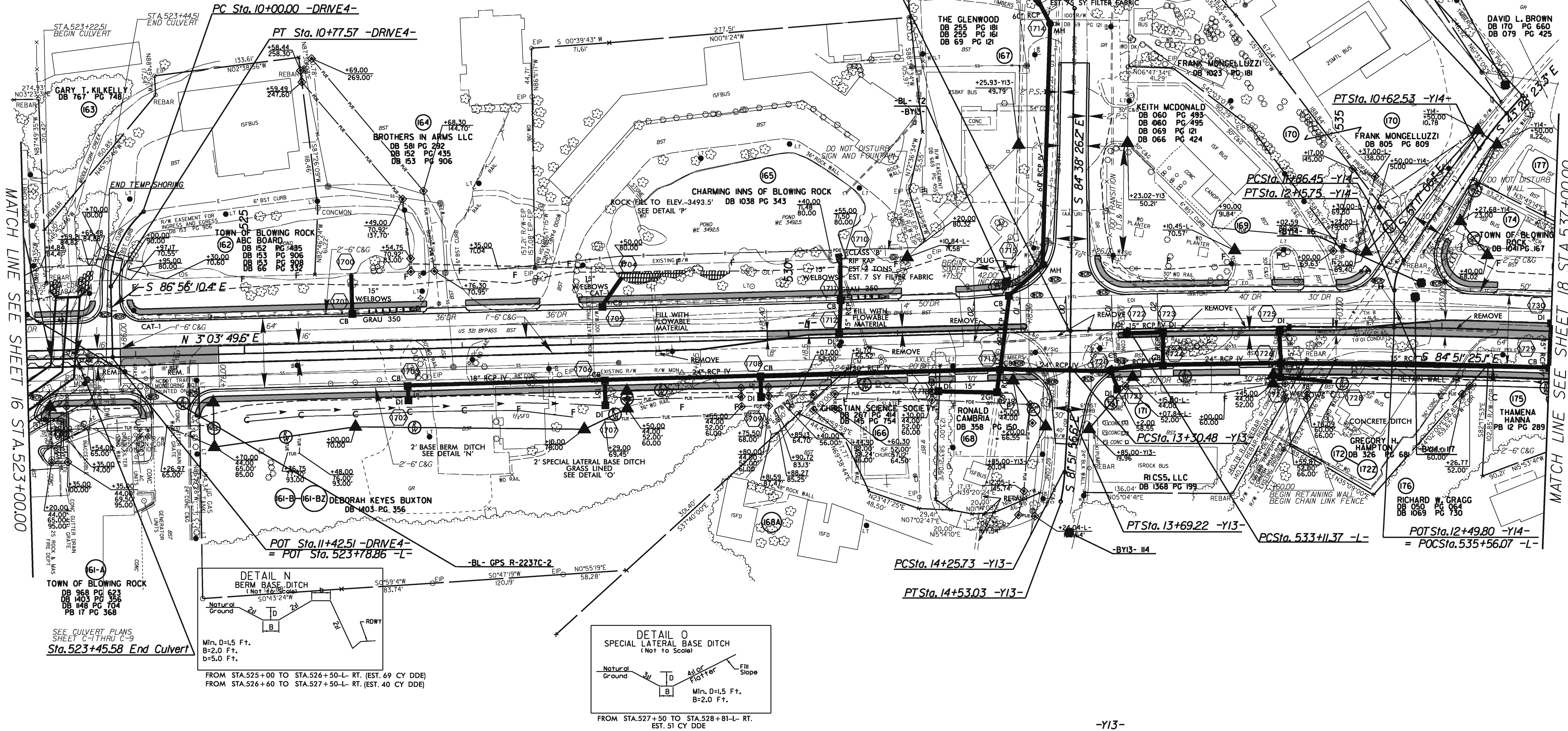
POT Sta. 12+96.03 -Y13-
= POT Sta. 532+58.85 -L-

-Y14-
PI Sta 10+42.11
 $\Delta = 7' 48' 42.8''$ (LT)
D = 19' 05' 54.9"
L = 20.90'
T = 20.48'
R = 300.00'

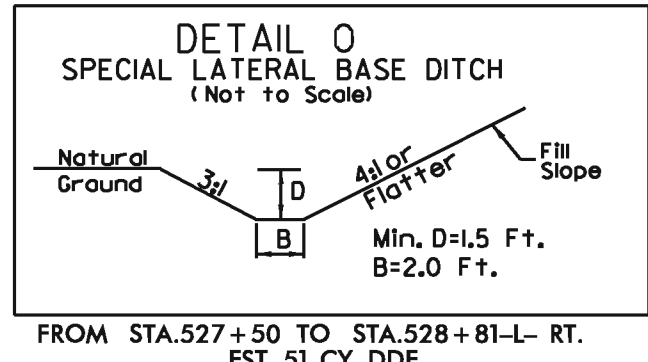
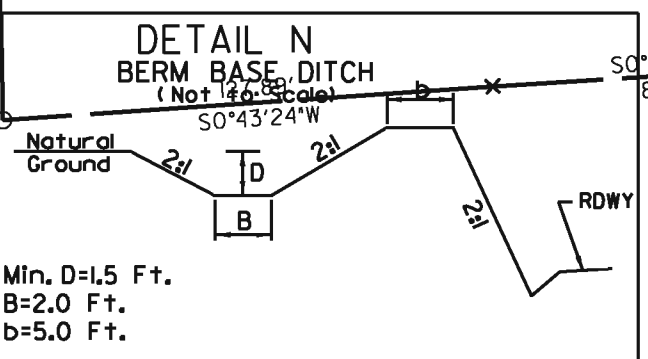
PI Sta 12+01.54
 $\Delta = 33' 34' 19.0''$ (LT)
D = 114' 35' 29.6"
L = 29.30'
T = 15.08'
R = 50.00'

-L-
PI Sta 541+24.83
 $\Delta = 15' 26' 30.6''$ (RT)
D = 0' 57' 17.7"
L = 1617.07'
T = 813.46'
R = 6,000.00'

BEGIN CONSTRUCTION
POT Sta. 10+00.00 -Y14-
PC Sta. 10+21.63 -Y14-



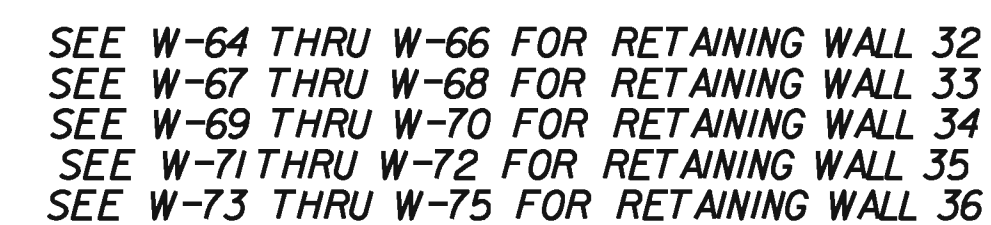
SEE CULVERT PLANS
SHEET C-1 THRU C-9
Sta. 523+45.58 End Culvert



-Y13-
PI Sta 13+49.85
 $\Delta = 2' 46' 29.6''$ (RT)
D = 7' 09' 43.1"
L = 38.74'
T = 19.38'
R = 800.00'

PI Sta 14+39.41
 $\Delta = 8' 41' 22.5''$ (RT)
D = 31' 49' 51.6"
L = 27.30'
T = 13.68'
R = 180.00'

SEE W-64 THRU W-66 FOR RETAINING WALL 32



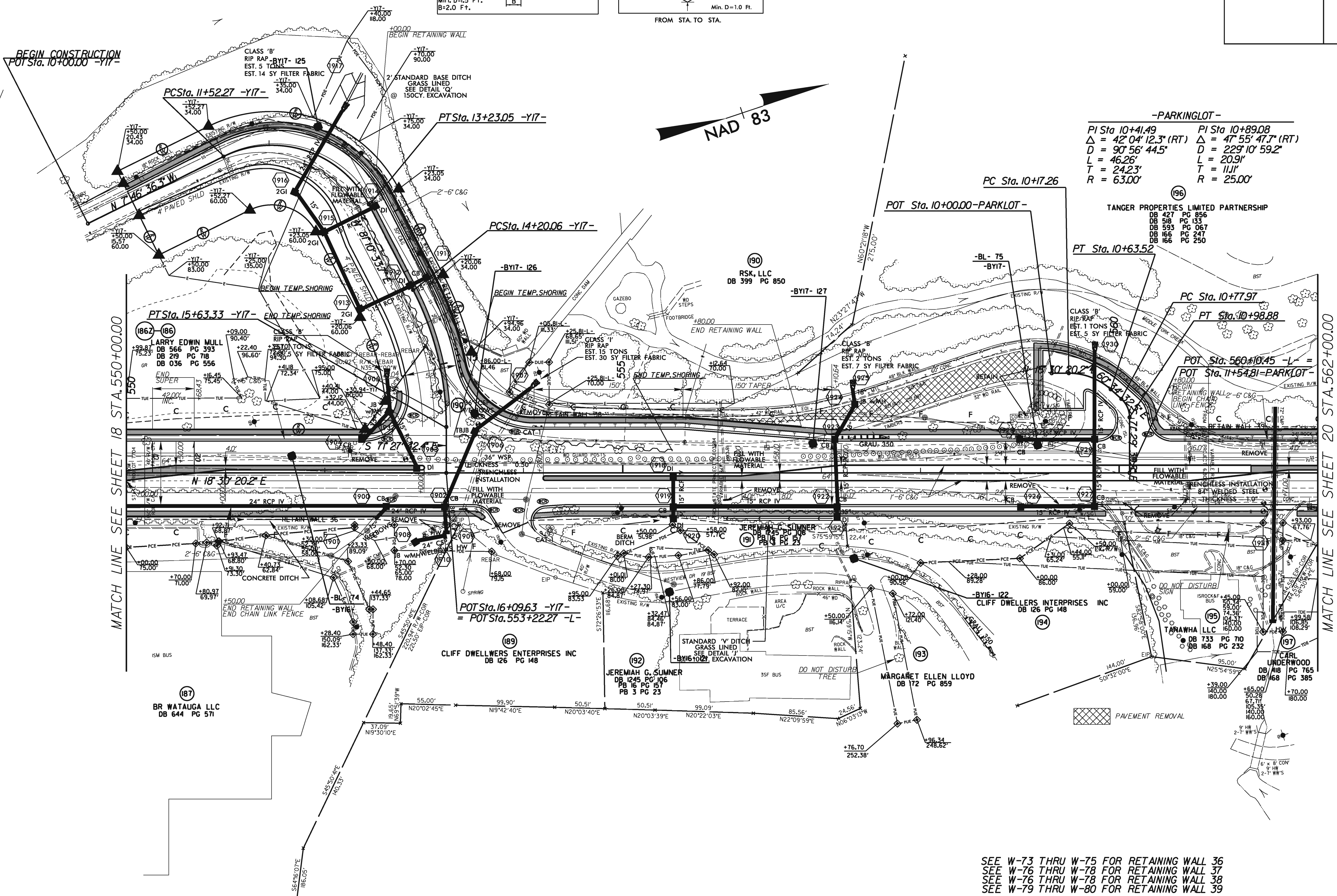
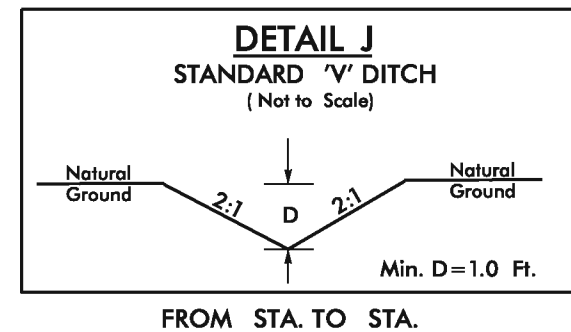
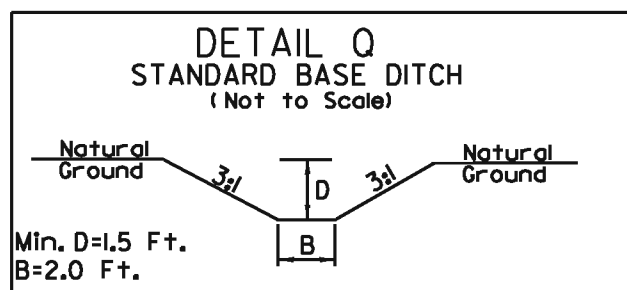
5/14/99

NOTE: SEE SHEET 29 FOR -L- PROFILE
SEE SHEET 33 FOR -Y17- PROFILE
SEE SHEET 2-1 FOR -Y17-/-L- INTERSECTION DETAIL

PROJECT REFERENCE NO.	SHEET NO.
R-2237C	19
R/W SHEET NO.	
19	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-Y17-
PI Sta 12+60.28
 $\Delta = 88^{\circ} 57' 09.9''$ (RT)
 $D = 52^{\circ} 05' 13.5''$
 $L = 170.78'$
 $T = 108.01'$
 $R = 110.00'$

PI Sta 14+93.08
 $\Delta = 27^{\circ} 21' 43.9''$ (RT)
 $D = 19^{\circ} 05' 54.9''$
 $L = 143.27'$
 $T = 73.03'$
 $R = 300.00'$



SEE W-73 THRU W-75 FOR RETAINING WALL 36
SEE W-76 THRU W-78 FOR RETAINING WALL 37
SEE W-76 THRU W-78 FOR RETAINING WALL 38
SEE W-79 THRU W-80 FOR RETAINING WALL 39

