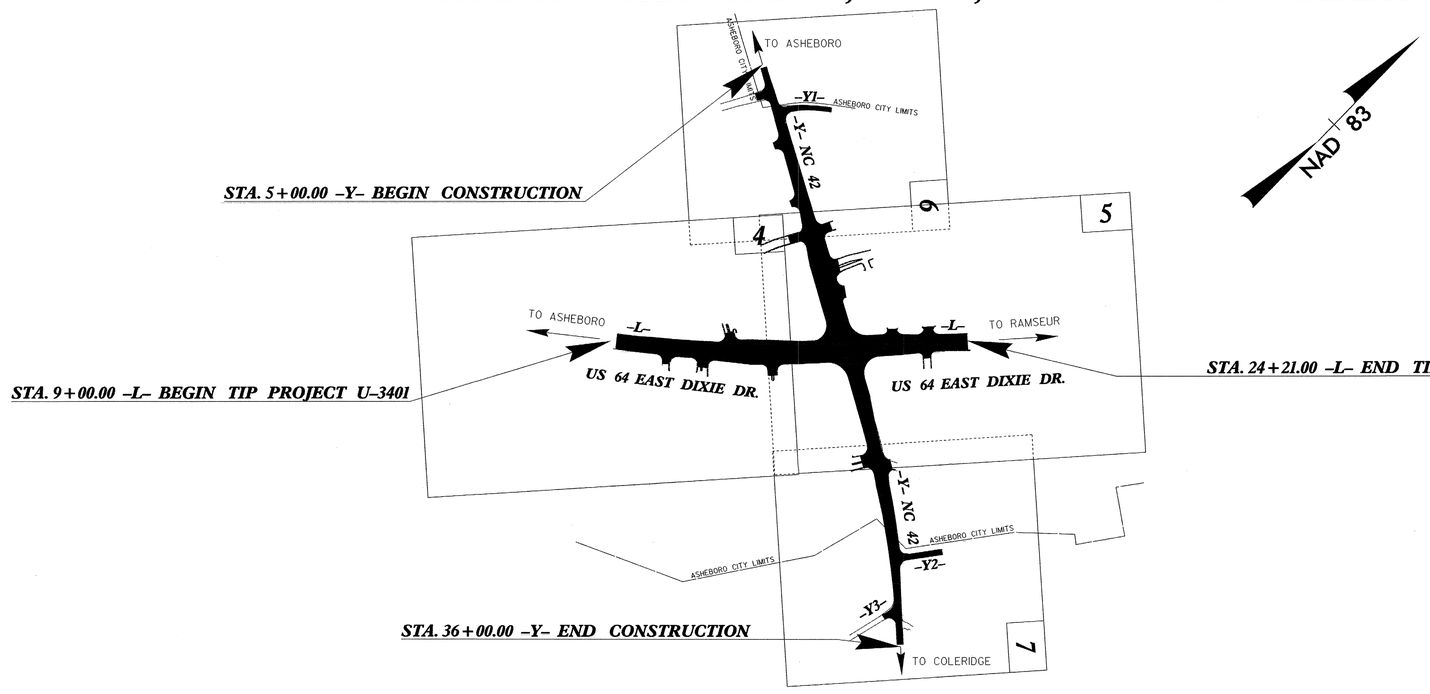
TIP PROJECT: U-3401

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

RANDOLPH COUNTY

LOCATION: INTERSECTION AT US 64/NC 49 AND NC 42 IN ASHEBORO
TYPE OF WORK: GRADING, PAVING, DRAINAGE AND WIDENING



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-3401	EC-1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
	Streambank Reforestation	
1630.03	Temporary Silt Ditch	TSD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.01	Riser Basin	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-B	
1634.01	Temporary Rock Sediment Dam Type-A	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	
1635.02	Rock Pipe Inlet Sediment Trap Type-B	
1630.04	Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	
	Tiered Skimmer Basin	

THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

GRAPHIC SCALE

0
PLANS
0
PROFILE (HORIZONTAL)
0
PROFILE (VERTICAL)

ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

Prepared In the Office of:

ROADSIDE ENVIRONMENTAL UNIT
1 South Wilmington St.
Raleigh, NC 27611

2006 STANDARD SPECIFICATIONS

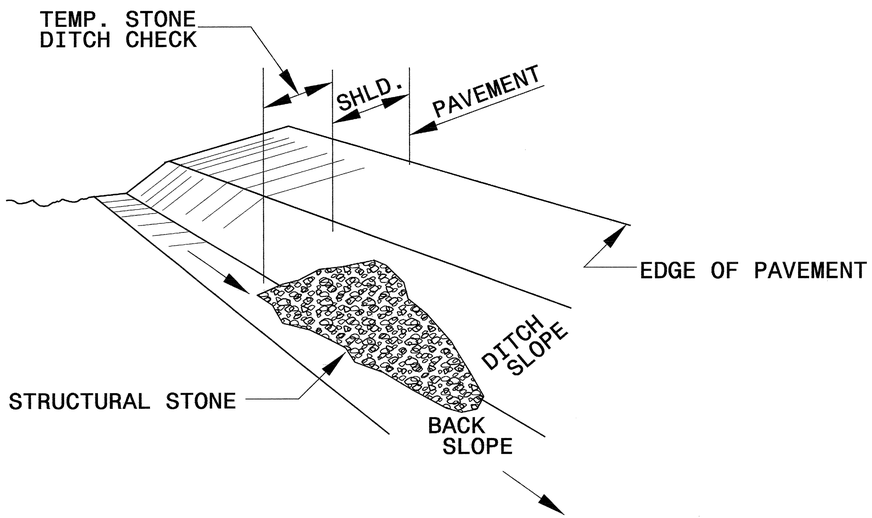
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"– Roadway Design Unit – N. C. Department of Transportation – Raleigh, N. C., dated July 18, 2006 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence
1606.01 Special Sediment Control Fence
1607.01 Gravel Construction Entrance
1622.01 Temporary Berms and Slope Drains
1630.02 Silt Basin Type B
1630.04 Stilling Basin
1630.05 Temporary Diversion
1632.01 Rock Inlet Sediment Trap Type A
1632.02 Rock Inlet Sediment Trap Type B
1632.03 Rock Inlet Sediment Trap Type C
1633.01 Temporary Rock Silt Check Type A

PROJECT REFERENCE NO.	SHEET NO.
U-3401	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

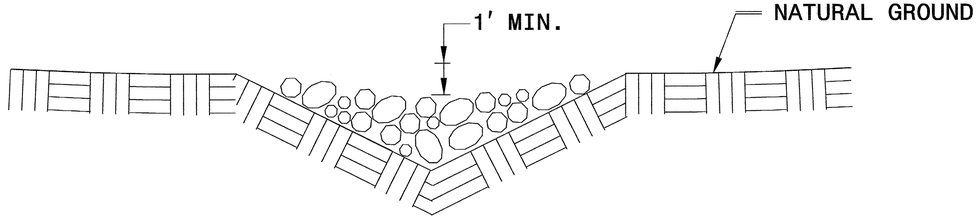


ISOMETRIC VIEW

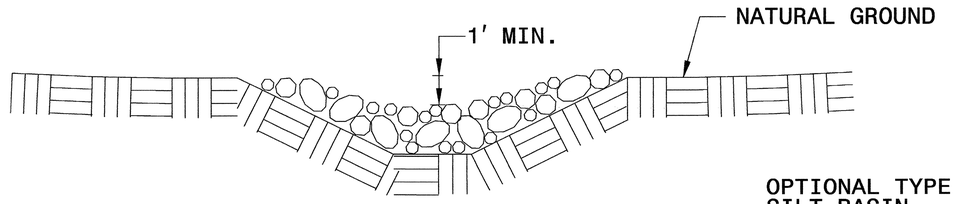
NOTES:

USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.

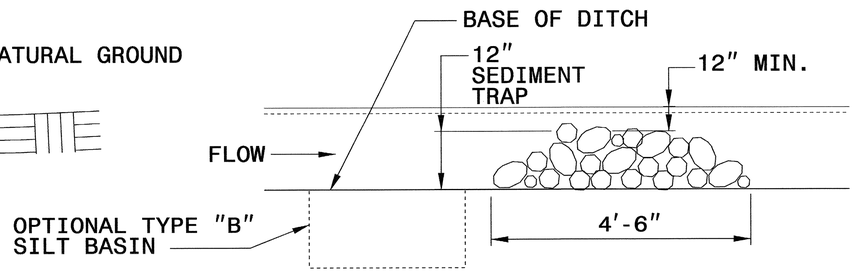
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



CROSS SECTION VEE DITCH



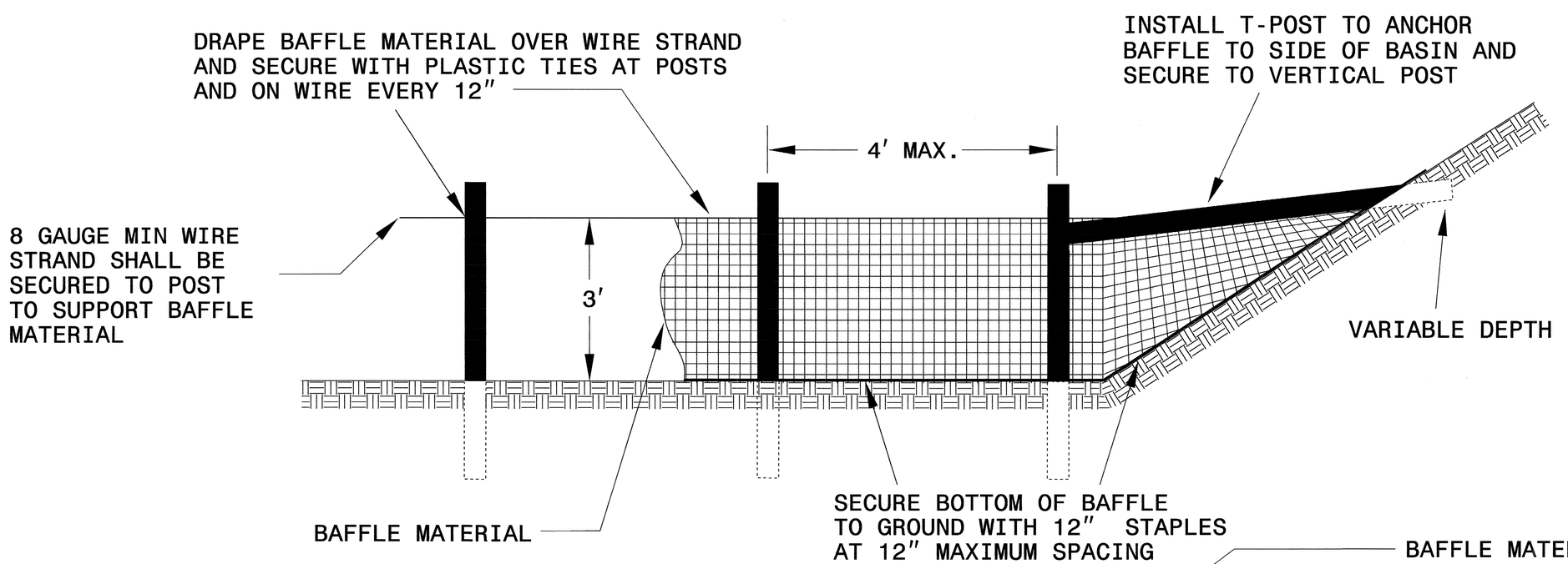
CROSS SECTION TRAPEZOIDAL DITCH

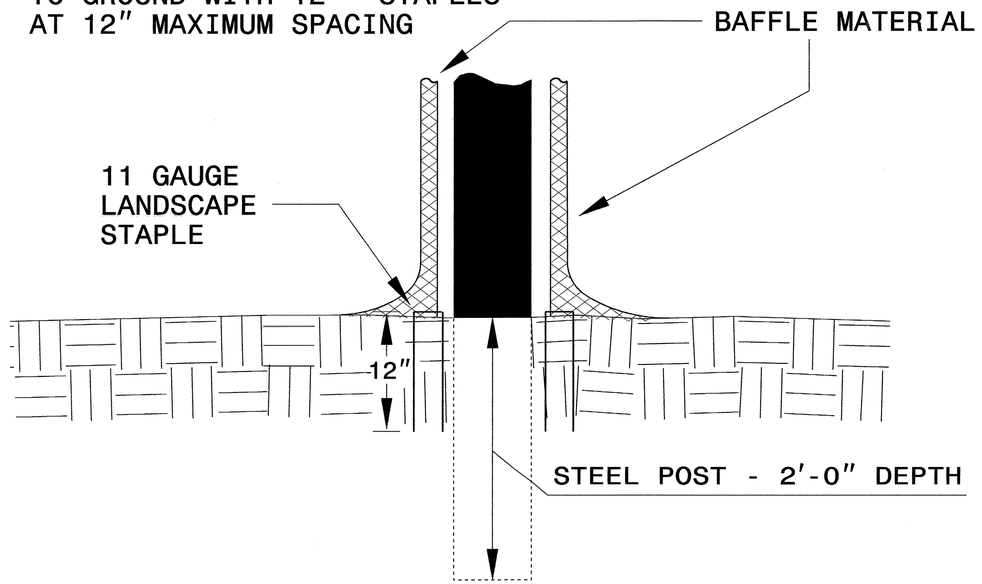


ELEVATION VIEW

PROJECT REFERENCE NO.	SHEET NO.
U-3401	EC-2A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL



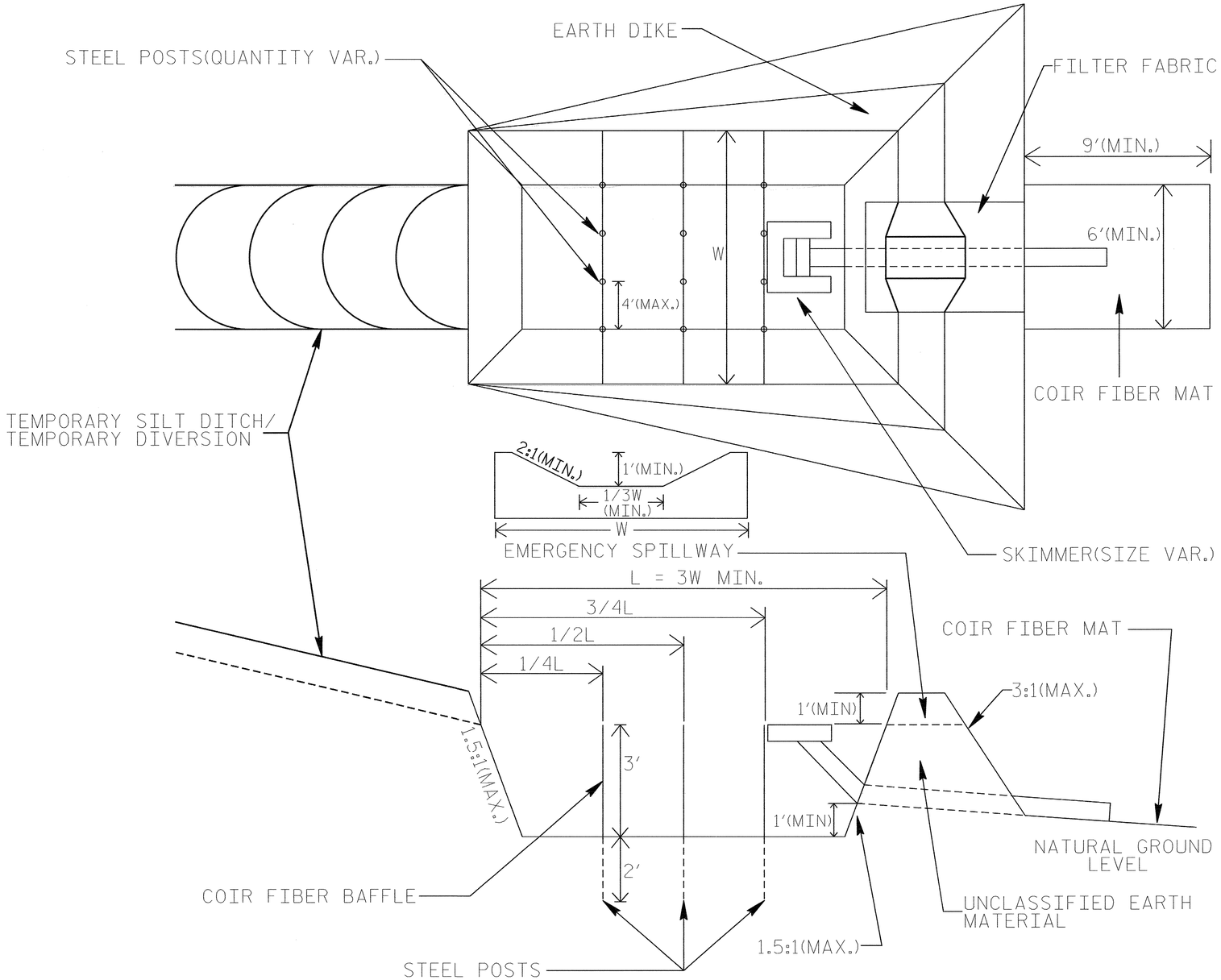


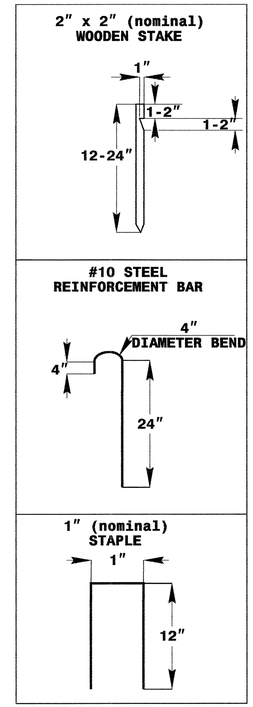
BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 12″ LANDSCAPE STAPLES

NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AT DRAINAGE OUTLETS WITH A SPACING OF ¼ THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF 1/3 THE BASIN LENGTH.

SKIMMER BASIN WITH BAFFLES DETAIL

PROJECT REFERENCE NO.	SHEET NO.
U-3401	EC-2B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER





COIR FIBER MAT ANCHOR OPTIONS

PROJECT REFERENCE NO.	SHEET NO.
U-3401	EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
6	Y	5+47	8+08	LT	185
6	Y	9+60	15+32	RT	520
7	Y	27+15	29+90	LT	250
8	Y DET	27+15	29+90	LT	250
			SUBTOTAL		1205
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					870
				TOTAL	2075
				SAY	2100

PERMANENT SOIL REINFORCEMENT MAT

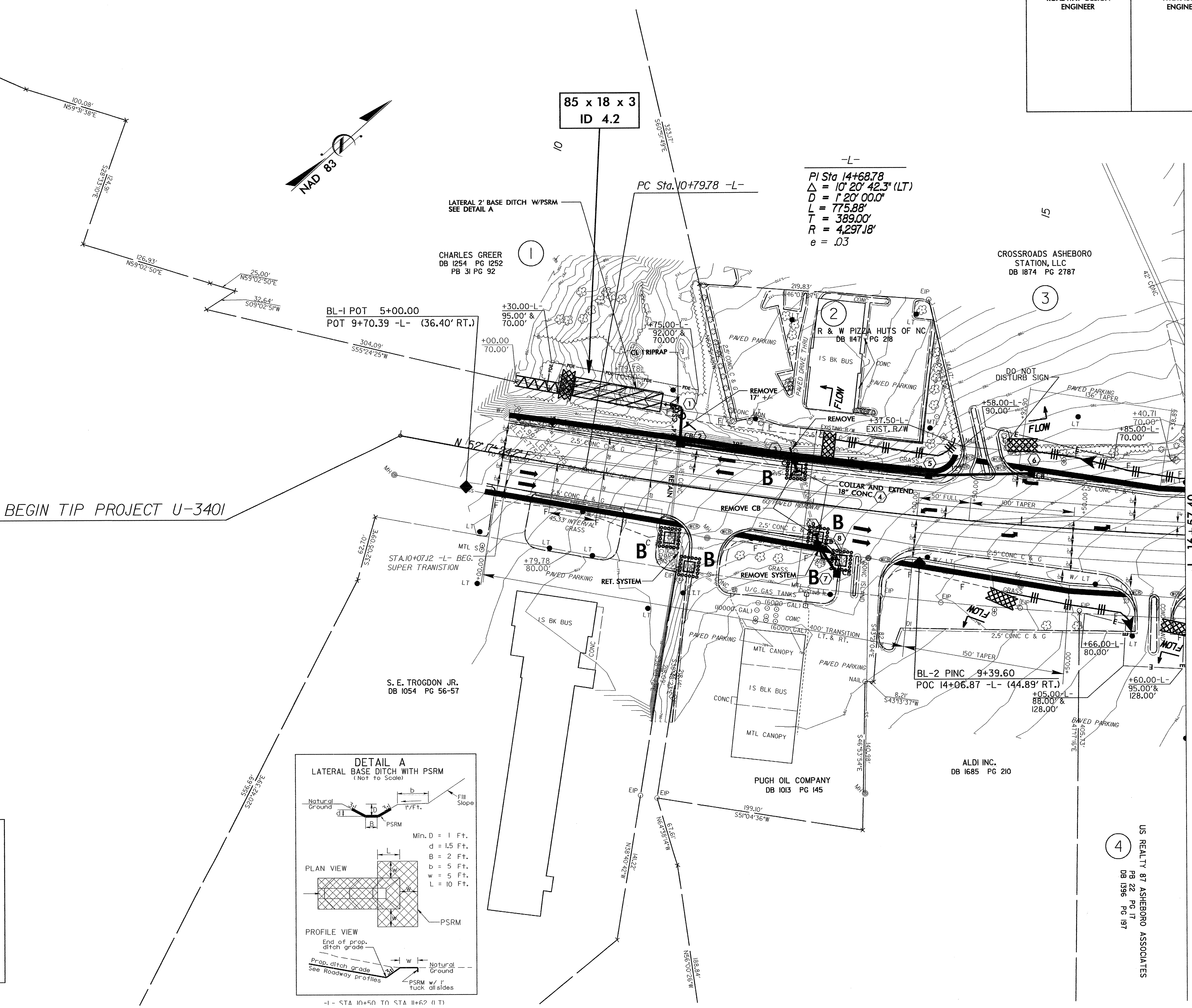
CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	L	10+50	11+50	LT	95
6	Y	8+51	10+00	LT	105
6	Y	10+00	11+59	LT	180
			SUBTOTAL		380
		ADDITIONAL PSRM TO BE INSTALLED			2070
				TOTAL	2450
				SAY	2450

PROJECT REFERENCE NO.	SHEET NO.
U-3401	EC-4/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE: FOR -L- PROFILE SEE SHEET 9

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.



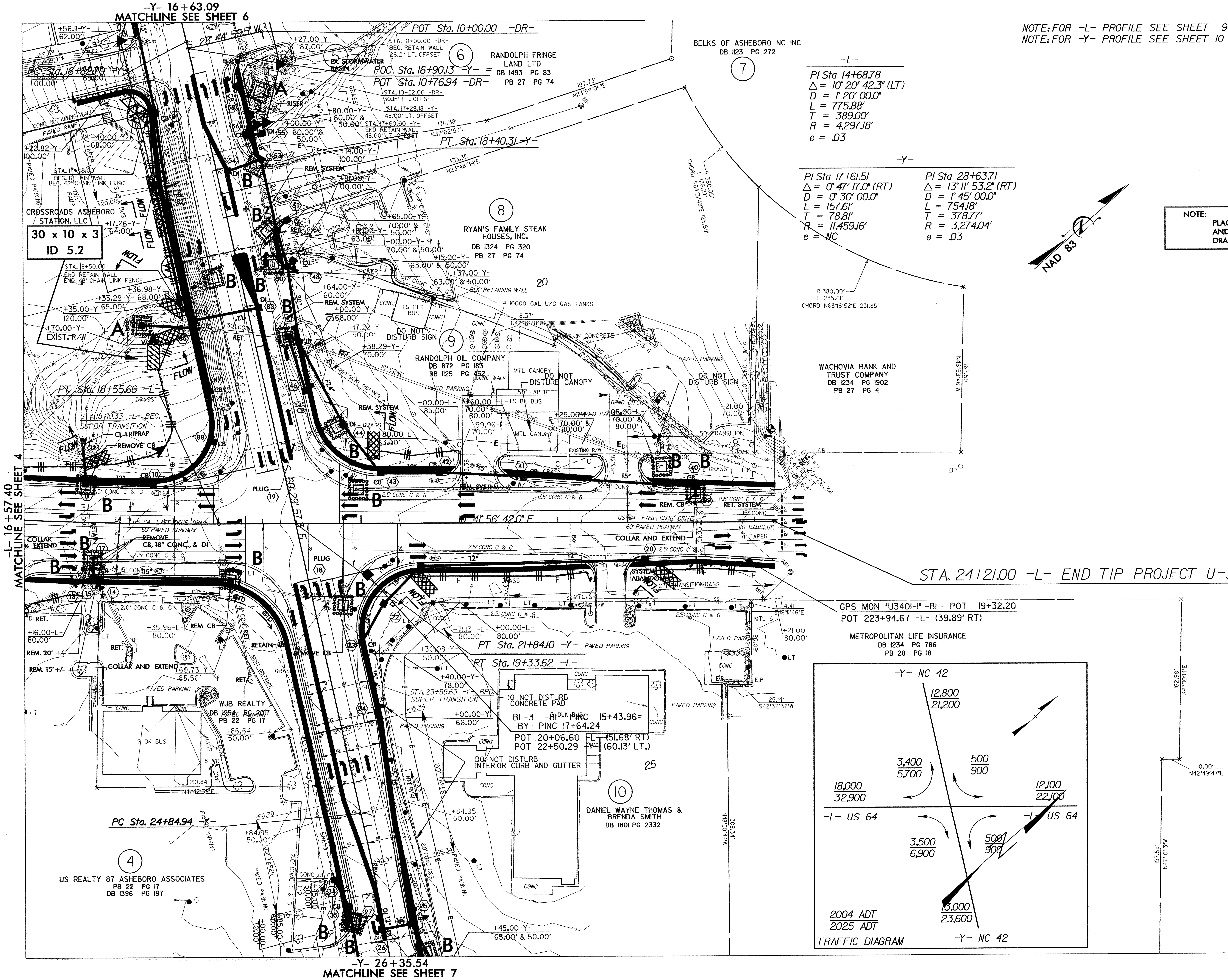
DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "U3401-1"
WITH NAD 83 STATE PLANE GRID COORDINATES OF
NORTHING: 710365.8988(ft) EASTING: 1766561.8278(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99987 1400
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "U3401-1" TO -L- STATION 9+00.00 IS
S 47° 23' 56.08" W 1494.30'
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NGVD 29

PROJECT REFERENCE NO.	SHEET NO.
U-3401	EC-5/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

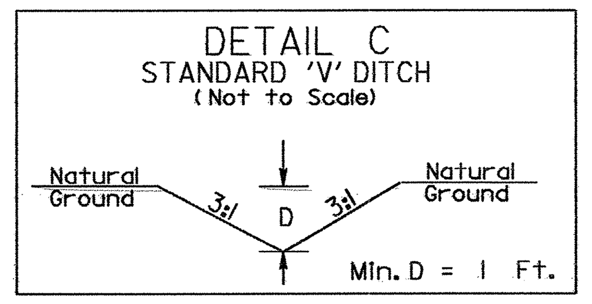


-Y- 16+63.09
MATCHLINE SEE SHEET 6
NOTE: FOR -L- PROFILE SEE SHEET 9
NOTE: FOR -Y- PROFILE SEE SHEET 10
POT Sta. 10+00.00 -DR-
RANDOLPH FRINGE LAND LTD
DB 1493 PG 83
PB 27 PG 74
POC Sta. 16+90.13 -Y- = POT Sta. 10+76.94 -DR-
PT Sta. 18+40.31 -Y-
BELKS OF ASHEBORO NC INC
DB 1123 PG 272
-L-
PI Sta 14+68.78
△ = 10° 20' 42.3" (LT)
D = 1° 20' 00.0"
L = 775.88'
T = 389.00'
R = 4,297.18'
e = .03
-Y-
PI Sta 17+61.51
△ = 0° 47' 17.0" (RT)
D = 0° 30' 00.0"
L = 157.61'
T = 78.81'
R = 11,459.16'
e = NC
PI Sta 28+63.71
△ = 13° 11' 53.2" (RT)
D = 1° 45' 00.0"
L = 754.18'
T = 378.77'
R = 3,274.04'
e = .03
NAD 83
CROSSROADS ASHEBORO STATION, LLC
30 x 10 x 3
ID 5.2
RYAN'S FAMILY STEAK HOUSES, INC.
DB 1324 PG 320
PB 27 PG 74
RANDOLPH OIL COMPANY
DB 872 PG 183
DB 1125 PG 452
WACHOVIA BANK AND TRUST COMPANY
DB 1234 PG 1902
PB 27 PG 4
PT. Sta. 18+55.66 -L-
DO NOT DISTURB SIGN
DO NOT DISTURB CANOPY
-L- 16+57.40
MATCHLINE SEE SHEET 4
US 64 EAST DIXIE DRIVE
STA. 24+21.00 -L- END TIP PROJECT U-3401
GPS MON "U3401-1" -BL- POT 19+32.20
POT 223+94.67 -L- (39.89' RT)
METROPOLITAN LIFE INSURANCE
DB 1234 PG 786
PB 28 PG 18
PT Sta. 21+84.10 -Y-
PT Sta. 19+33.62 -L-
WJB REALTY
DB 1254 PG 2017
PB 22 PG 17
DO NOT DISTURB CONCRETE PAD
BL-3 -BL- PINC 15+43.96= -BY- PINC 17+64.24
POT 20+06.60 -L- (51.68' RT)
POT 22+50.29 -Y- (60.13' LT.)
DO NOT DISTURB INTERIOR CURB AND GUTTER
DANIEL WAYNE THOMAS & BRENDA SMITH
DB 1801 PG 2332
PC Sta. 24+84.94 -Y-
US REALTY 87 ASHEBORO ASSOCIATES
PB 22 PG 17
DB 1396 PG 197
-Y- 26+35.54
MATCHLINE SEE SHEET 7
-Y- NC 42
12,800
21,200
3,400
5,700
500
900
18,000
32,900
12,100
22,100
-L- US 64
-L- US 64
3,500
6,900
500
900
13,000
23,600
2004 ADT
2025 ADT
TRAFFIC DIAGRAM
-Y- NC 42

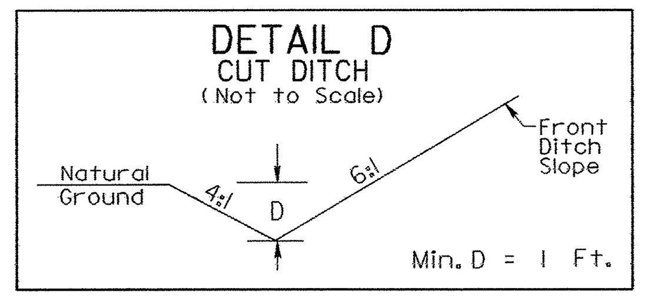
PROJECT REFERENCE NO.	SHEET NO.
U-3401	EC-6/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE: FOR -Y- PROFILE SEE SHEET 10
NOTE: FOR -Y1- PROFILE SEE SHEET 11

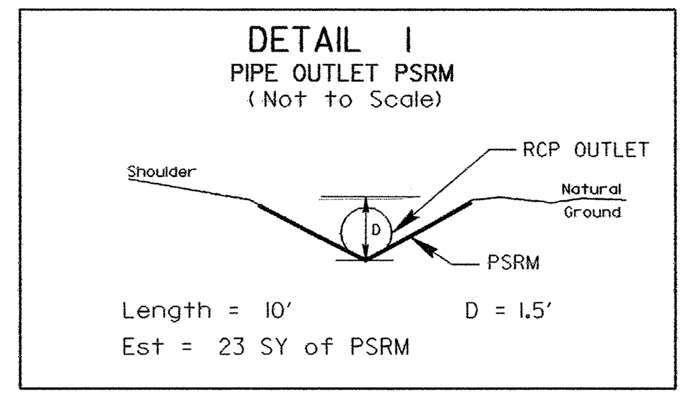
-Y-	-Y1-
PI Sta 6+92.47	PI Sta 11+43.94
△ = 0° 23' 35.7" (LT)	△ = 21° 52' 50.0" (LT)
D = 0° 13' 45.1"	D = 19° 05' 54.9"
L = 171.59'	L = 114.57'
T = 85.80'	T = 57.99'
R = 25,000.00'	R = 300.00'
	e = RC



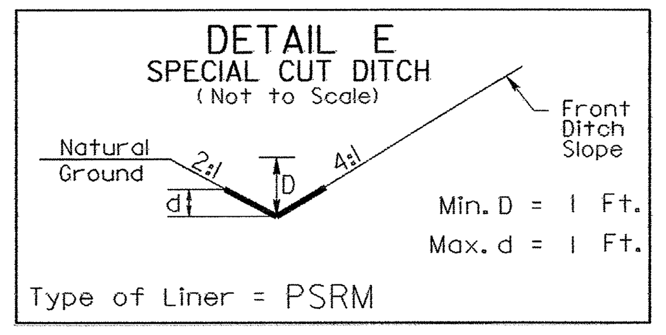
-Y- STA 5+47 TO STA. 8+08 (LT)
-Y- STA 8+51 TO STA. 10+00 (LT)



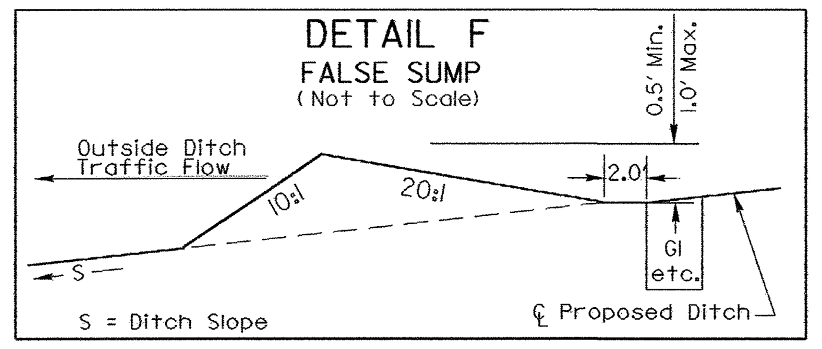
-Y- STA 10+05 TO STA. 11+59 (LT)



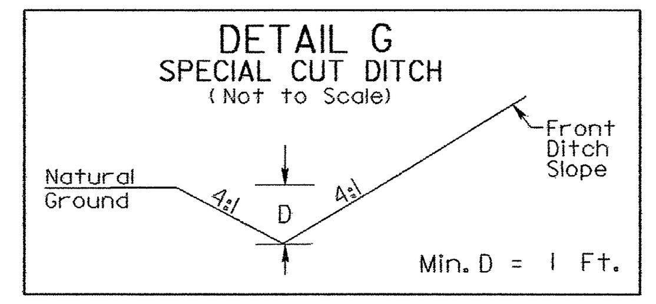
-Y- STA 15+32 (RT)



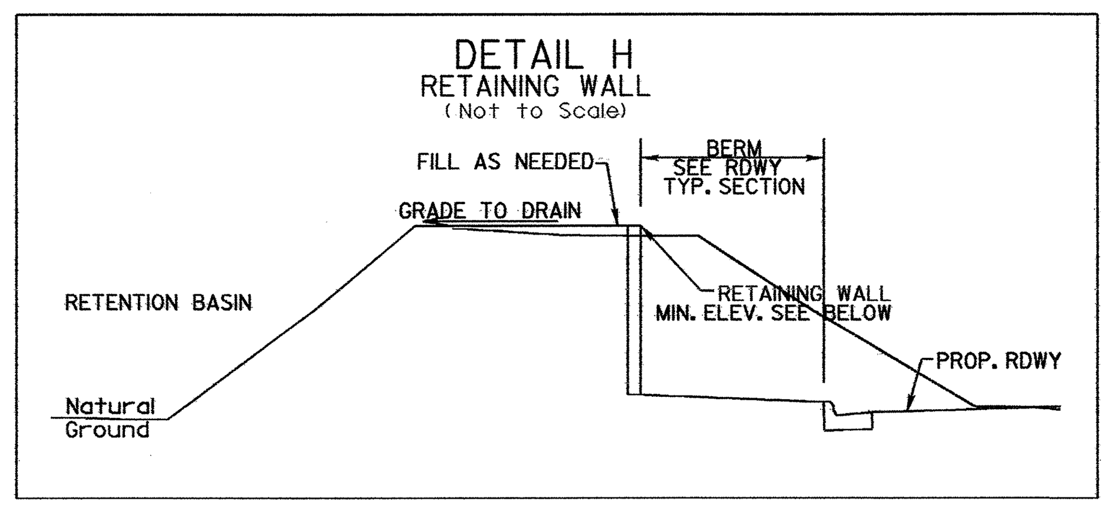
-Y1- STA 10+00 TO STA. 11+16 (LT)



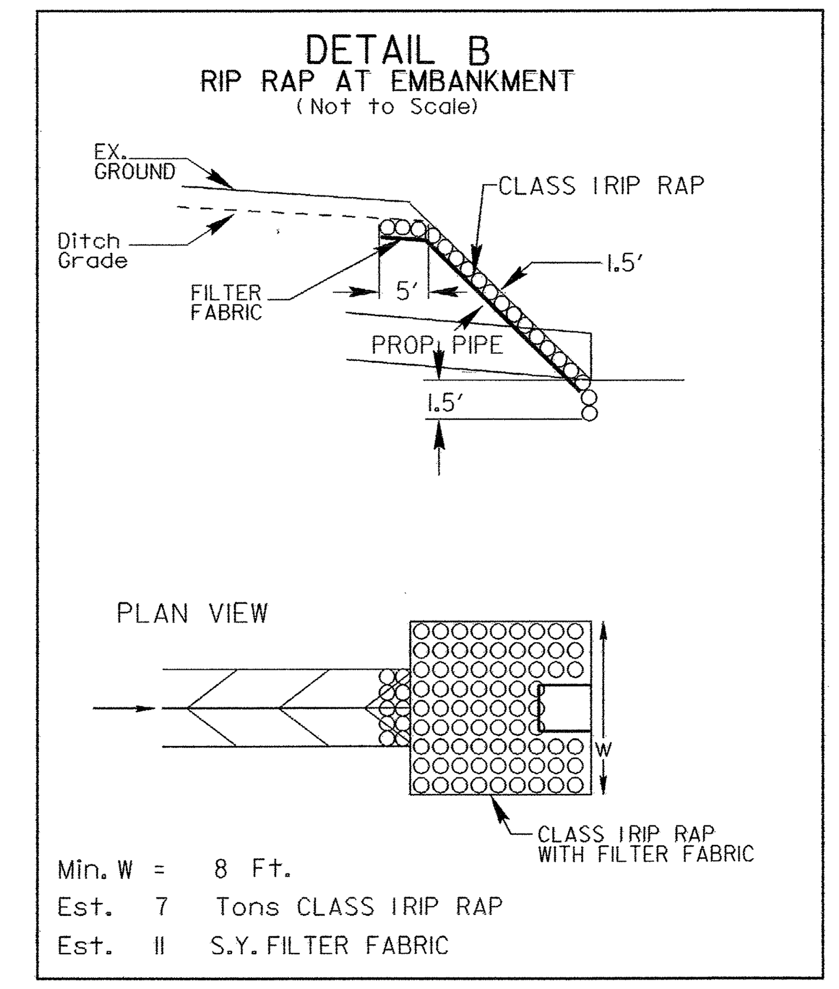
-Y- STA 10+04 (LT)



-Y- STA 9+60 TO STA. 15+32 (RT)



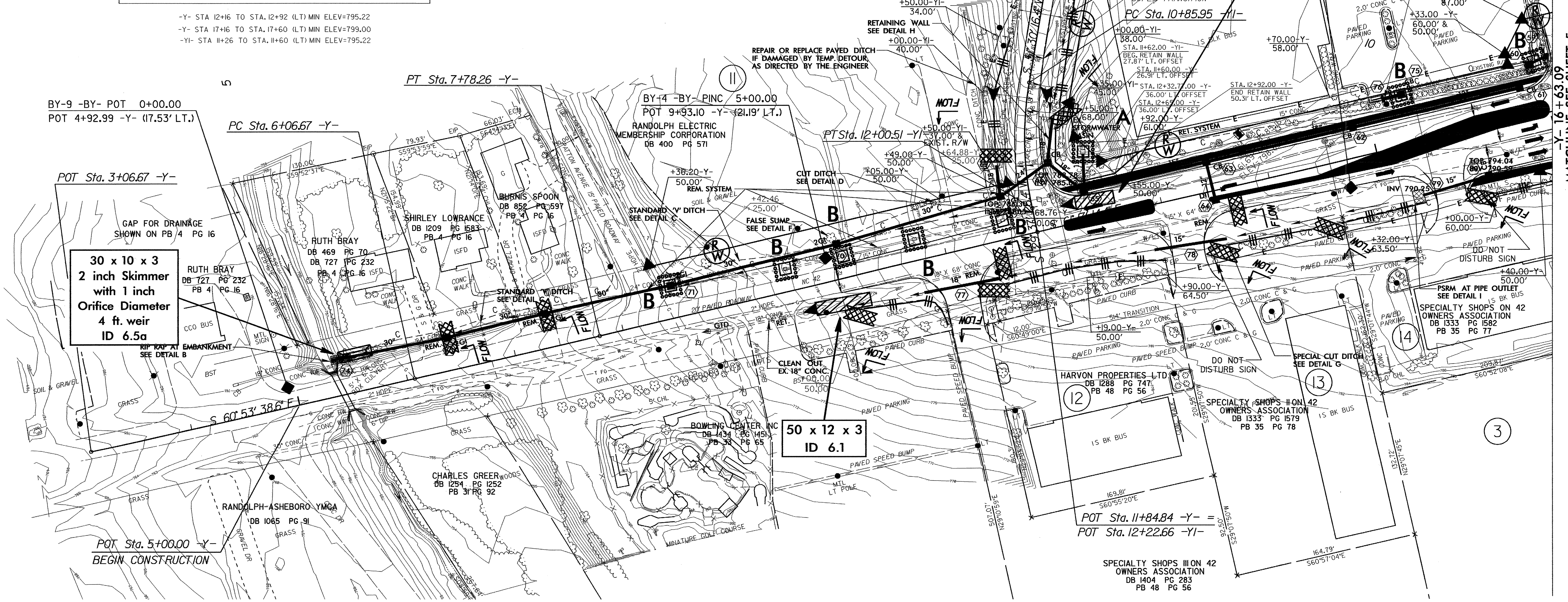
-Y- STA 12+16 TO STA. 12+92 (LT) MIN ELEV=795.22
-Y- STA 17+16 TO STA. 17+60 (LT) MIN ELEV=799.00
-Y1- STA 11+26 TO STA. 11+60 (LT) MIN ELEV=795.22



-Y- STA 5+46 (LT)

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

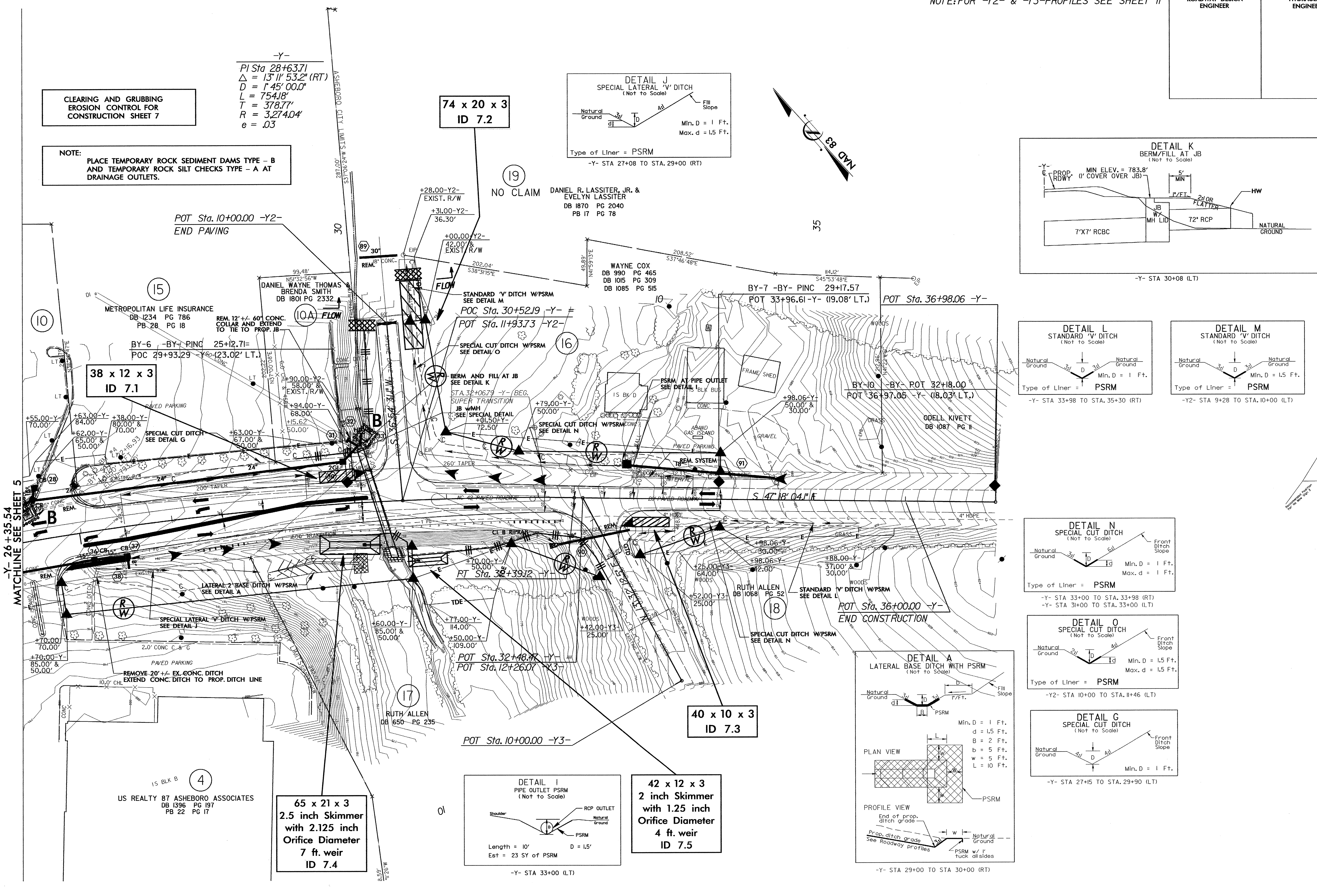

NAD 83
POT Sta. 10+00.00 -Y1-
END CONSTRUCTION
35 x 12 x 3
ID 6.10
BY-5 -BY- PINC 9+79.02
POT 14+69.84 -Y- (25.59' RT.)
RANDOLPH FRINGE LAND LTD
DB 1493 PG 83
PB 27 PG 74
REALTY INCOME CORPORATION
DB 1548 PG 470
REMOVE 16' +/- COLLAR AND EXTEND
SPECIAL CUT DITCH W/PSRM SEE DETAIL E
PC Sta. 10+85.95 -Y1-
RETAINING WALL SEE DETAIL H
REPAIR OR REPLACE PAVED DITCH IF DAMAGED BY TEMP. DETOUR, AS DIRECTED BY THE ENGINEER
BY-4 -BY- PINC 5+00.00
POT 9+93.10 -Y- (21.19' LT.)
RANDOLPH ELECTRIC MEMBERSHIP CORPORATION
DB 400 PG 571
PT Sta. 7+78.26 -Y-
PT Sta. 12+00.51 -Y1-
BY-9 -BY- POT 0+00.00
POT 4+92.99 -Y- (17.53' LT.)
PC Sta. 6+06.67 -Y-
POT Sta. 3+06.67 -Y-
GAP FOR DRAINAGE SHOWN ON PB 4 PG 16
RUTH BRAY
DB 469 PG 70
DB 727 PG 232
PB 4 PG 16
SHIRLEY LOWRANCE
DB 1209 PG 1583
PB 4 PG 16
BURNIS SPOON
DB 852 PG 597
PB 4 PG 16
STANDARD 'V' DITCH SEE DETAIL C
CUT DITCH SEE DETAIL D
FALSE SUMP SEE DETAIL F
30 x 10 x 3
2 inch Skimmer
with 1 inch
Orifice Diameter
4 ft. weir
ID 6.5a
RIP RAP AT EMBANKMENT SEE DETAIL B
S 60° 53' 38.6" E
CLEAN OUT EX. 18" CONC.
50 x 12 x 3
ID 6.1
HARVON PROPERTIES LTD
DB 1288 PG 747
PB 48 PG 56
SPECIALTY SHOPS II ON 42 OWNERS ASSOCIATION
DB 1333 PG 1579
PB 35 PG 78
SPECIAL CUT DITCH SEE DETAIL G
DO NOT DISTURB SIGN
PSRM AT PIPE OUTLET SEE DETAIL I
SPECIALTY SHOPS ON 42 OWNERS ASSOCIATION
DB 1333 PG 1582
PB 35 PG 77
-Y- 16+63.09
MATCHLINE SEE SHEET 5
BOWLING CENTER, INC
DB 1434 PG 1451
PB 33 PG 65
CHARLES GREER
DB 1254 PG 1252
PB 31 PG 92
RANDOLPH-ASHEBORO YMCA
DB 1065 PG 91
POT Sta. 5+00.00 -Y-
BEGIN CONSTRUCTION
MINIATURE GOLF COURSE
POT Sta. 11+84.84 -Y- =
POT Sta. 12+22.66 -Y1-
SPECIALTY SHOPS III ON 42 OWNERS ASSOCIATION
DB 1404 PG 283
PB 48 PG 56
ASHEBORO CITY LIMITS

PROJECT REFERENCE NO.	SHEET NO.
U-3401	EC-7/CONST.7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE: FOR -Y- PROFILE SEE SHEET 10 & 11
NOTE: FOR -Y2- & -Y3-PROFILES SEE SHEET 11

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 7

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.



CULVERT CONSTRUCTION SEQUENCE STA. 30+24.5 –Y–

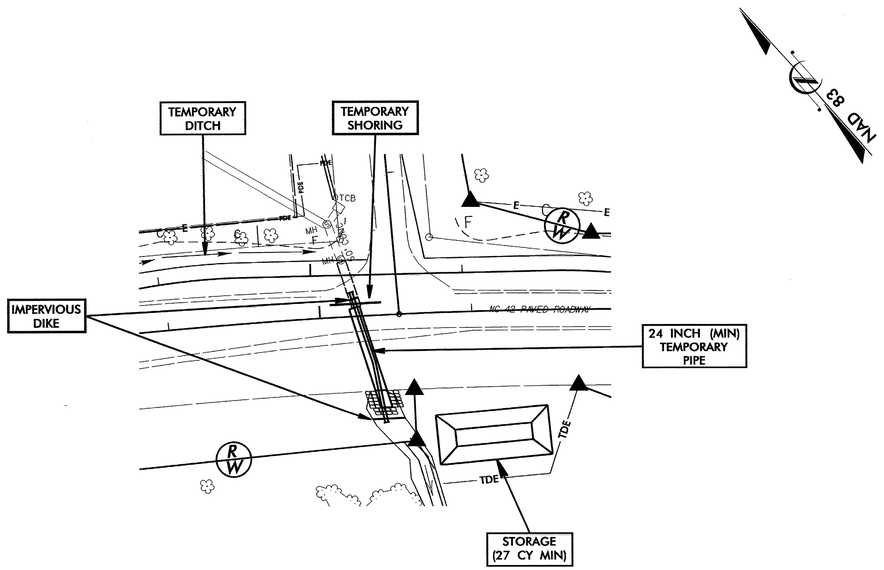
PROJECT REFERENCE NO.	SHEET NO.
U-3401	EC-8/CONST.7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

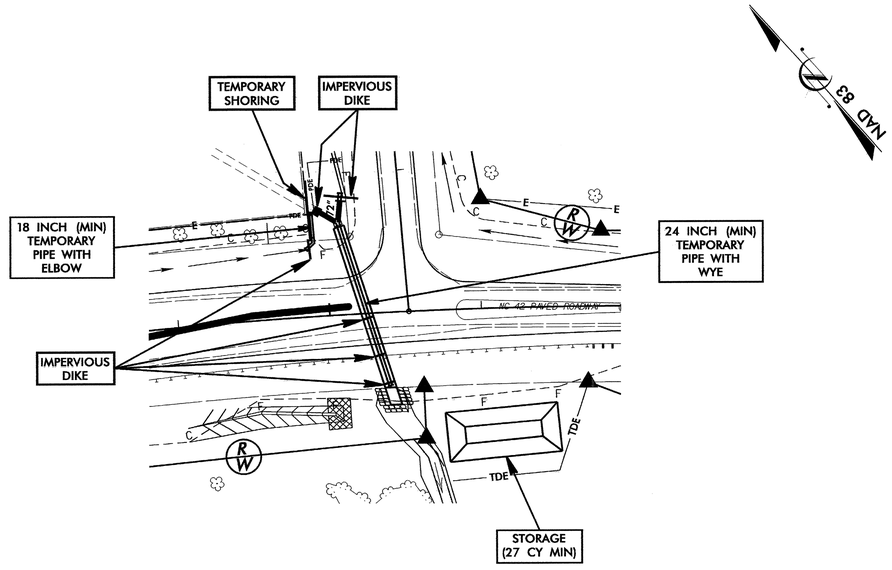
PHASE I

1. CONSTRUCT SEDIMENT CONTROL DEVICES.
2. CONSTRUCT THE ON–SITE DETOUR AND TEMPORARY DITCH ON LEFT SIDE OF –Y–.
3. INSTALL A TEMPORARY STILLING BASIN (27 CY MIN.) ON RIGHT SID OF –Y–.
4. ONCE TRAFFIC HAS BEEN SHIFTED TO THE DETOUR, INSTALL A 24" MIN. CS TEMPORARY DIVERSION PIPE WITH IMPERVIOUS DIKES TO CARRY FLOW FROM UPSTREAM OF WORK AREA TO AN AREA BEYOND CONSTRUCTION AREA.
5. CONSTRUCT REQUIRED TEMPORARY SHORING.
6. REMOVE 72" CMP AND 40' +/– OF EXISTING 5' X 5' BOX CULVERT TO ALLOW FOR CONSTRUCTION OF THE PROPOSED SOUTHERN PORTION OF THE CULVERT, WHILE PUMPING EFFLUENT INTO STILLING BASIN.
7. WHILE TRAFFIC IS MAINTAINED ON THE NEWLY CONSTRUCTED ON–SITE DETOUR, CONSTRUCT AS MUCH OF THE PROPOSED SOUTHERN (DOWNSTREAM) PORTION OF THE CULVERT AS POSSIBLE.
8. REMOVE PHASE I 24" MIN. TEMPORARY DIVERSION PIPE AND IMPERVIOUS DIKES.

PHASE II

9. CONSTRUCT PROPOSED ROADWAY RIGHT OF –Y– OVER NEWLY CONSTRUCTED CULVERT WITH REQUIRED TEMPORARY SHORING.
10. ONCE TRAFFIC HAS BEEN SHIFTED TO THE NEWLY CONSTRUCTED ROADWAY, INSTALL 24" MIN. CS TEMPORARY DIVERSION PIPES WITH WYE AND IMPERVIOUS DIKES TO CARRY FLOW FROM THE EXISTING PRIVATE SYSTEM AND FROM THE CHANNEL UPSTREAM OF THE WORK AREA TO AN AREA BEYOND THE CONSTRUCTION AREA. IMPERVIOUS DIKES WILL INCLUDE TWO INTERIOR IMPERVIOUS DIKES TO SERVE AS PIPE SUPPORT AND AS SEDIMENT REDUCTION BAFFLES.
11. REMOVE TEMPORARY PAVEMENT, AS NEEDED, FROM THE NO–LONGER USED ON–SITE DETOUR, TO CONSTRUCT THE PROPOSED DITCH ON THE LEFT SIDE OF –Y–. INSTALL 18" MIN. CS TEMPORARY DIVERSION PIPE WITH ELBOW AND IMPERVIOUS DIKE, TO CARRY FLOW FROM DITCH TO UPSTREAM OF THE TEMPORARY DIVERSION PIPE. CONSTRUCT IMPERVIOUS DIKE FOR THE EXISTING PRIVATE SYSTEM..
12. REMOVE REMAINING 5' X 5' BOX CULVERT, 60" CONC. PIPE, 2 MANHOLES, 54" CONC. PIPE, OTCB, AND 12' +/– OF 60' CONC. PIPE FROM EXISTING PRIVATE SYSTEM WHILE PUMPING EFFLUENT INTO STILLING BASIN.
13. CONSTRUCT THE REMAINING NORTHERN (UPSTREAM) PORTION OF THE CULVERT.
14. REMOVE THE TEMP. PIPE THAT IS CARRYING FLOW FROM THE UPSTREAM CHANNEL AND CONSTRUCT THE PROPOSED JB AND 72" RCP OPEN–END PIPE. AFTER PROPOSED JB IS COMPLETE, CONSTRUCT 2GI AT STA. 29+90 –Y– AND TIE TO PROPOSED JB AT CULVERT INLET. REMOVE TEMPORARY DIVERSION PIPE FROM DITCH. COLLAR AND EXTEND 60" CONC. PIPE FROM PRIVATE SYSTEM TO TIE TO PROPOSED JB.
15. UPON PERMANENT STABILIZATION OF ALL DISTURBED AREAS, REMOVE ALL TEMPORARY SEDIMENT CONTROL DEVICES INCLUDING TEMPORARY DITCHES, PIPES, AND STILLING BASIN.





PROJECT REFERENCE NO.	SHEET NO.
U-3401	EC-9/CONST.8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 8

NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

TEMP -Y-

PI Sta 11+06.88
△ = 3° 44' 21.9" (RT)
D = 1° 45' 00.1"
L = 213.68'
T = 106.88'
R = 3,274.00'

PI Sta 12+64.25
△ = 13° 43' 57.9" (LT)
D = 13° 38' 30.7"
L = 100.57'
T = 50.58'
R = 420.00'

PI Sta 13+92.66
△ = 21° 07' 33.6" (RT)
D = 13° 38' 30.7"
L = 154.86'
T = 78.32'
R = 420.00'

PI Sta 17+30.18
△ = 16° 03' 27.6" (RT)
D = 13° 38' 30.7"
L = 117.71'
T = 59.24'
R = 420.00'

PI Sta 18+40.19
△ = 13° 59' 32.0" (LT)
D = 13° 38' 30.7"
L = 102.57'
T = 51.54'
R = 420.00'

NAD 83

ASHEBORO CITY LIMITS

-Y- 26+35.54
MATCHLINE SEE SHEET 5

(10) (10A) (15) (16) (17) (18) (19)

METROPOLITAN LIFE INSURANCE
DB 1234 PG 786
PB 28 PG 18

DANIEL WAYNE THOMAS & BRENDA SMITH
DB 1801 PG 2332

NO CLAIM
DANIEL R. LASSITER, JR. & EVELYN LASSITER
DB 1870 PG 2040
PB 17 PG 78

WAYNE COX
DB 990 PG 465
DB 1015 PG 309
DB 1085 PG 515

ODELL KIVETT
DB 1087 PG 11

RUTH ALLEN
DB 1068 PG 52

RUTH ALLEN
DB 650 PG 225

US REALTY 87 ASHEBORO ASSOCIATES
DB 1396 PG 197
PB 22 PG 17

55 x 12 x 3
ID 8.2

55 x 12 x 3
2 inch Skimmer
with 1.375 inch
Orifice Diameter
4 ft. weir
ID 8.1

BY-6 -BY- PINC 25+12.71=
POC 29+93.29 -Y- (23.02' LT.)
PRCSta. 27+99.28 -YDET-

BY-7 -BY- PINC 29+17.57
POT 33+96.61 -Y- (19.08' LT.)
POTSta. 33+67.55 -Y-
PTSta. 33+76.15 -YDET-

BY-10 -BY- POT 32+18.00
POT 36+97.05 -Y- (18.03' LT.)

PTSta. 29+54.15 -YDET-

PRCSta. 32+73.59 -YDET-

PCSta. 31+55.88 -YDET-

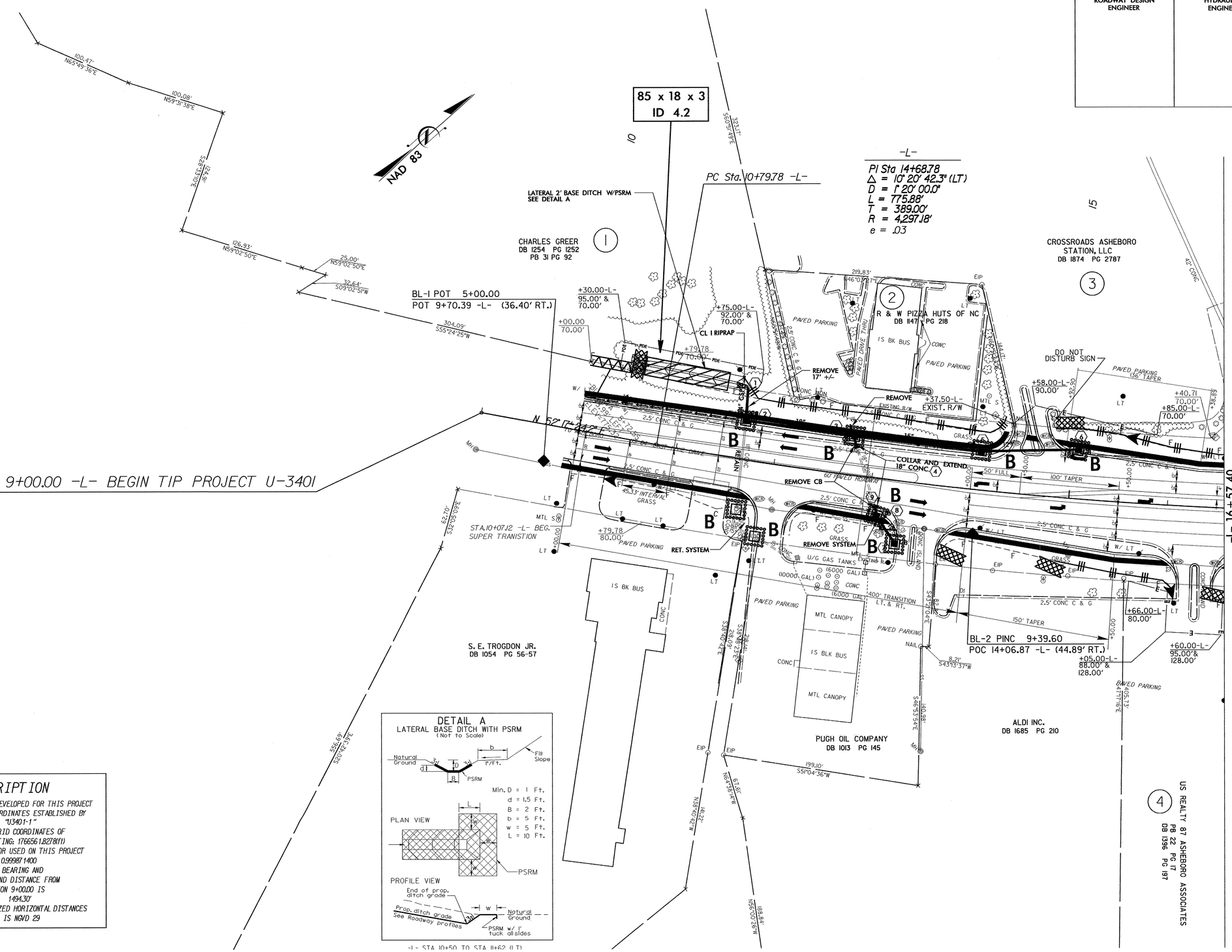
POCSta. 26+98.62 -Y- =
PRCSta. 26+98.62 -YDET-

49° 21' 59.7"

DETOUR

PROJECT REFERENCE NO.	SHEET NO.
U-3401	EC-10/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE: FOR -L- PROFILE SEE SHEET 9



DETAIL A
LATERAL BASE DITCH WITH PSRM
(Not to Scale)

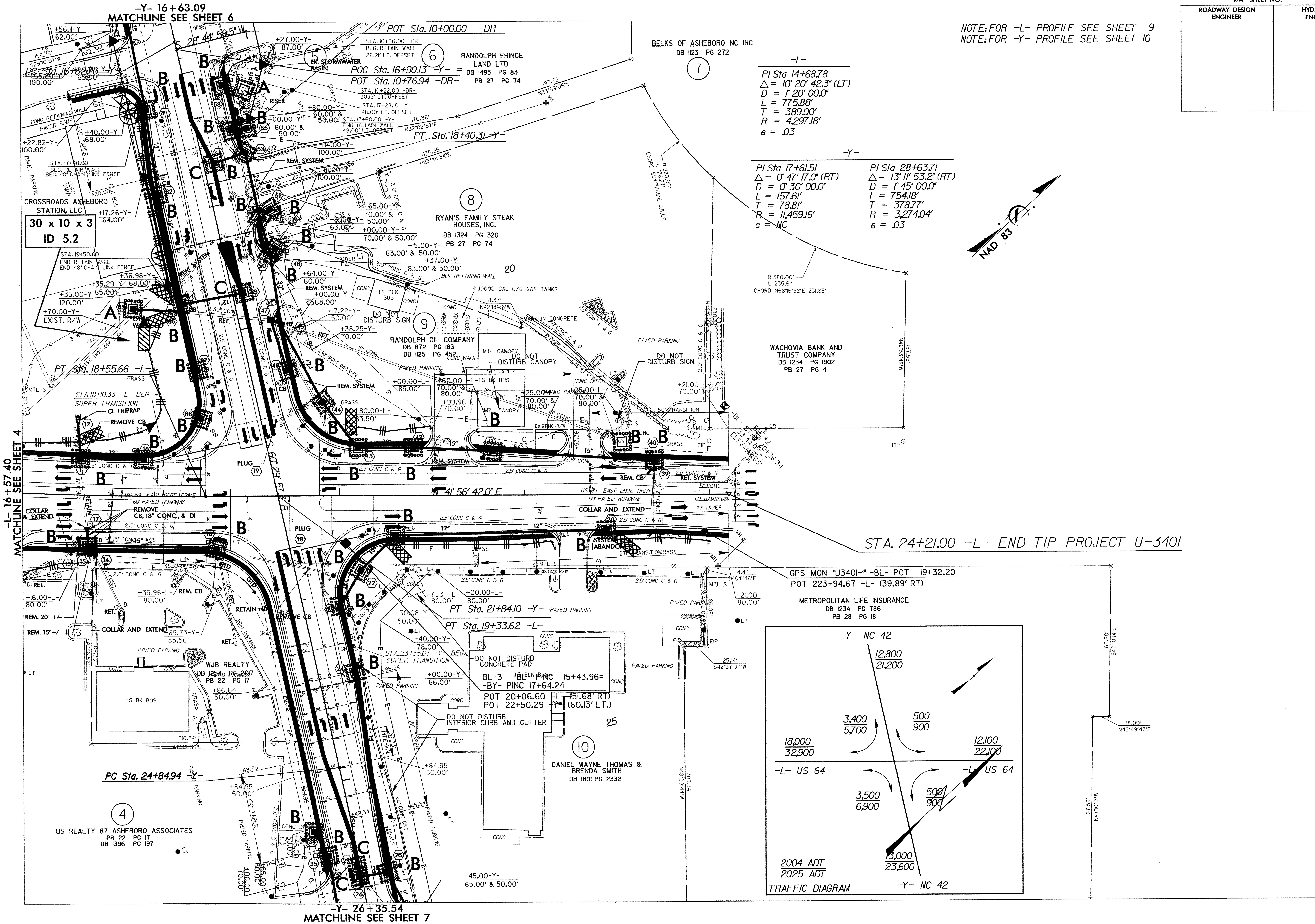
-L- STA 10+50 TO STA 11+62 (LT)

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "U3401-1" WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 710365.89881(ft) EASTING: 1766561.82781(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99981400
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "U3401-1" TO -L- STATION 9+00.00 IS
S 47° 23' 56.08" W 149.30'
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NGVD 29

PROJECT REFERENCE NO.	SHEET NO.
U-3401	EC-11/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE: FOR -L- PROFILE SEE SHEET 9
NOTE: FOR -Y- PROFILE SEE SHEET 10

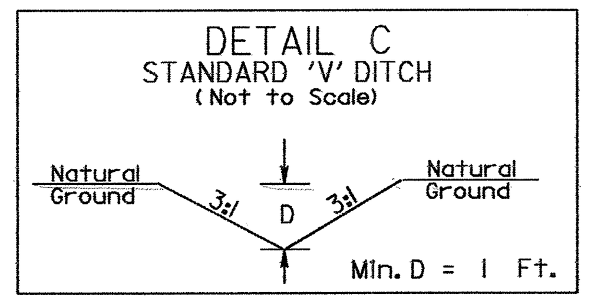


PROJECT REFERENCE NO.	SHEET NO.
U-3401	EC-12/CONST.6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

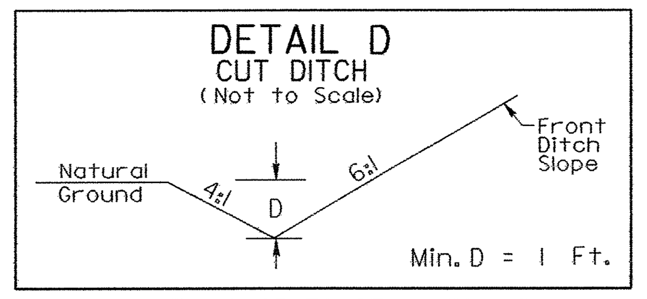
NOTE: FOR -Y- PROFILE SEE SHEET 10

NOTE: FOR -YI- PROFILE SEE SHEET 11

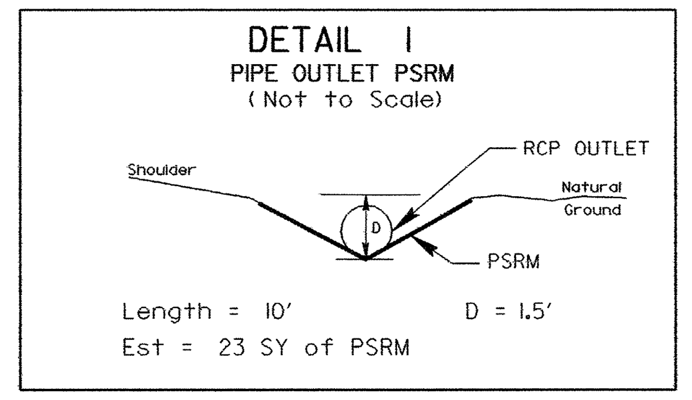
-Y-	-YI-
PI Sta 6+92.47	PI Sta 11+43.94
△ = 0° 23′ 35.7″ (LT)	△ = 21° 52′ 50.0″ (LT)
D = 0° 13′ 45.1″	D = 19° 05′ 54.9″
L = 171.59′	L = 114.57′
T = 85.80′	T = 57.99′
R = 25,000.00′	R = 300.00′
	e = RC



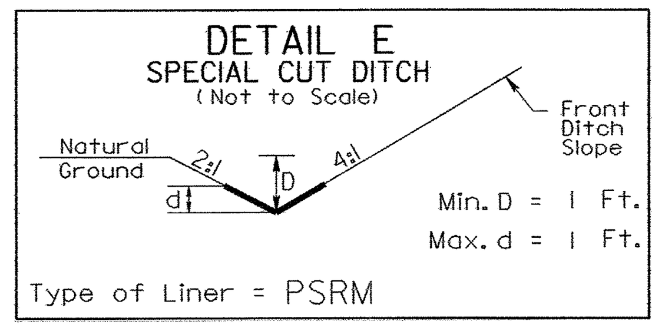
-Y- STA 5+47 TO STA. 8+08 (LT)
-Y- STA 8+51 TO STA. 10+00 (LT)



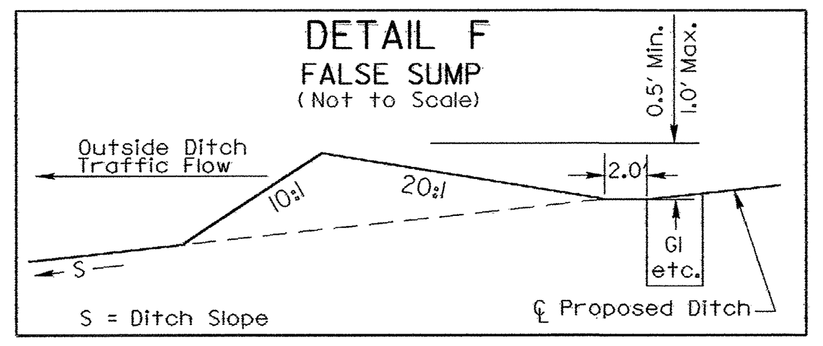
-Y- STA 10+05 TO STA. 11+59 (LT)



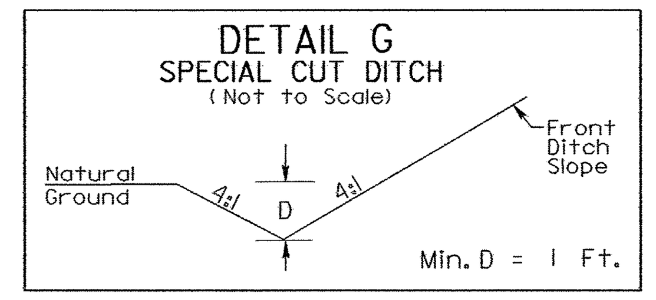
-Y- STA 15+32 (RT)



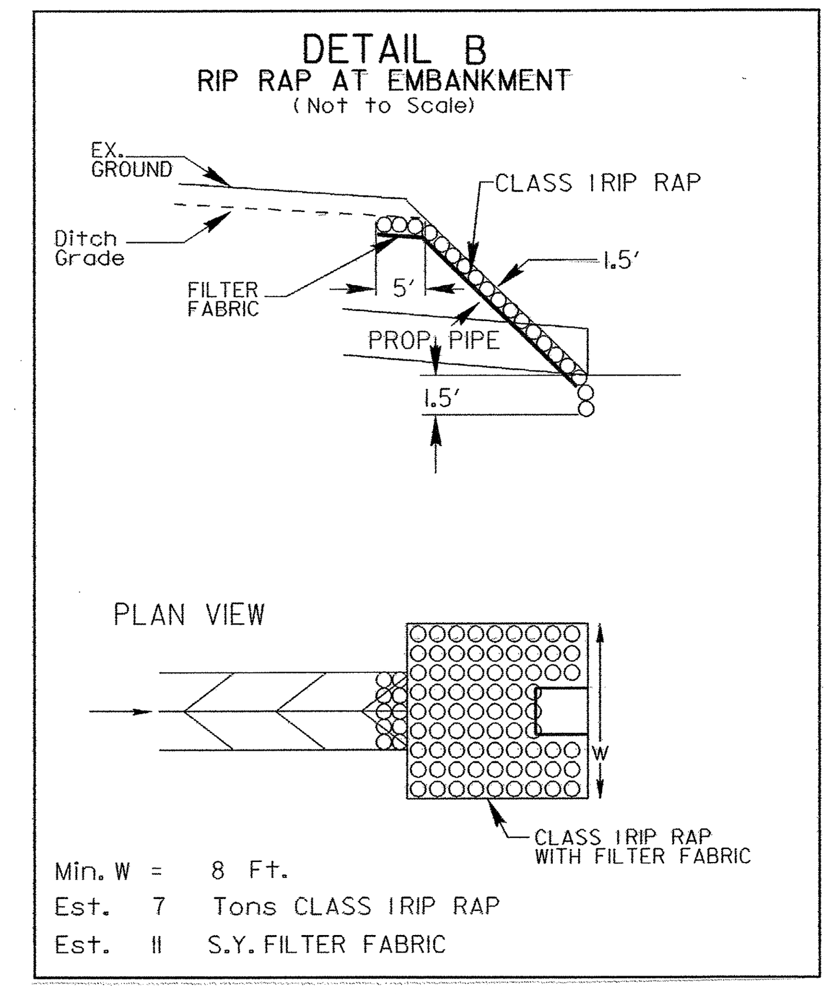
-YI- STA 10+00 TO STA. 11+16 (LT)



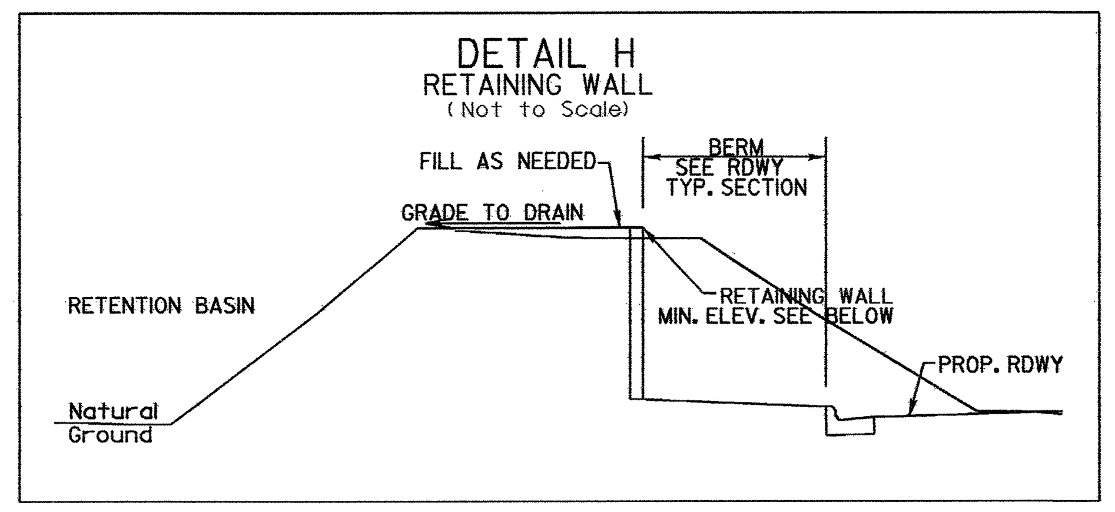
-Y- STA 10+04 (LT)



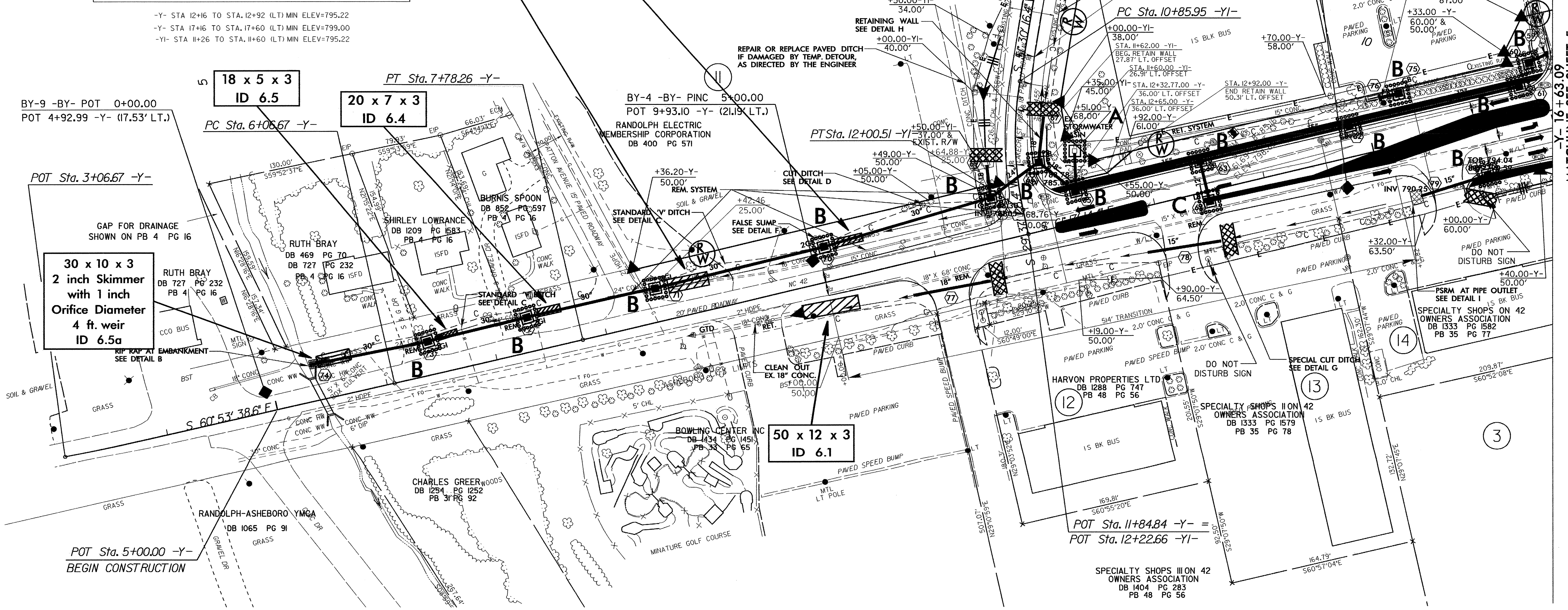
-Y- STA 9+60 TO STA. 15+32 (RT)



-Y- STA 5+46 (LT)

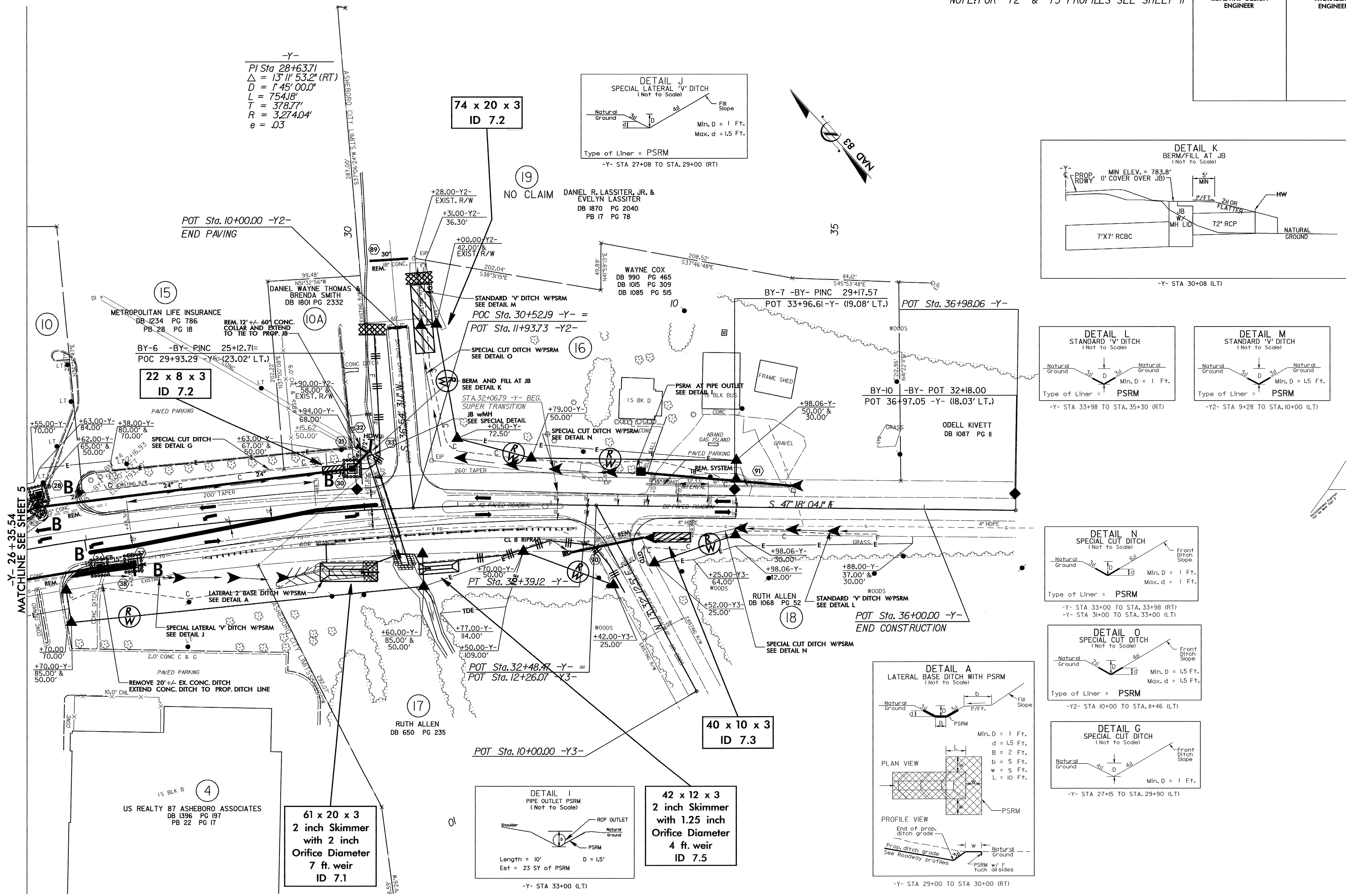


-Y- STA 12+16 TO STA. 12+92 (LT) MIN ELEV=795.22
-Y- STA 17+16 TO STA. 17+60 (LT) MIN ELEV=799.00
-YI- STA 11+26 TO STA. 11+60 (LT) MIN ELEV=795.22



PROJECT REFERENCE NO.	SHEET NO.
U-3401	EC-13/CONST.7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

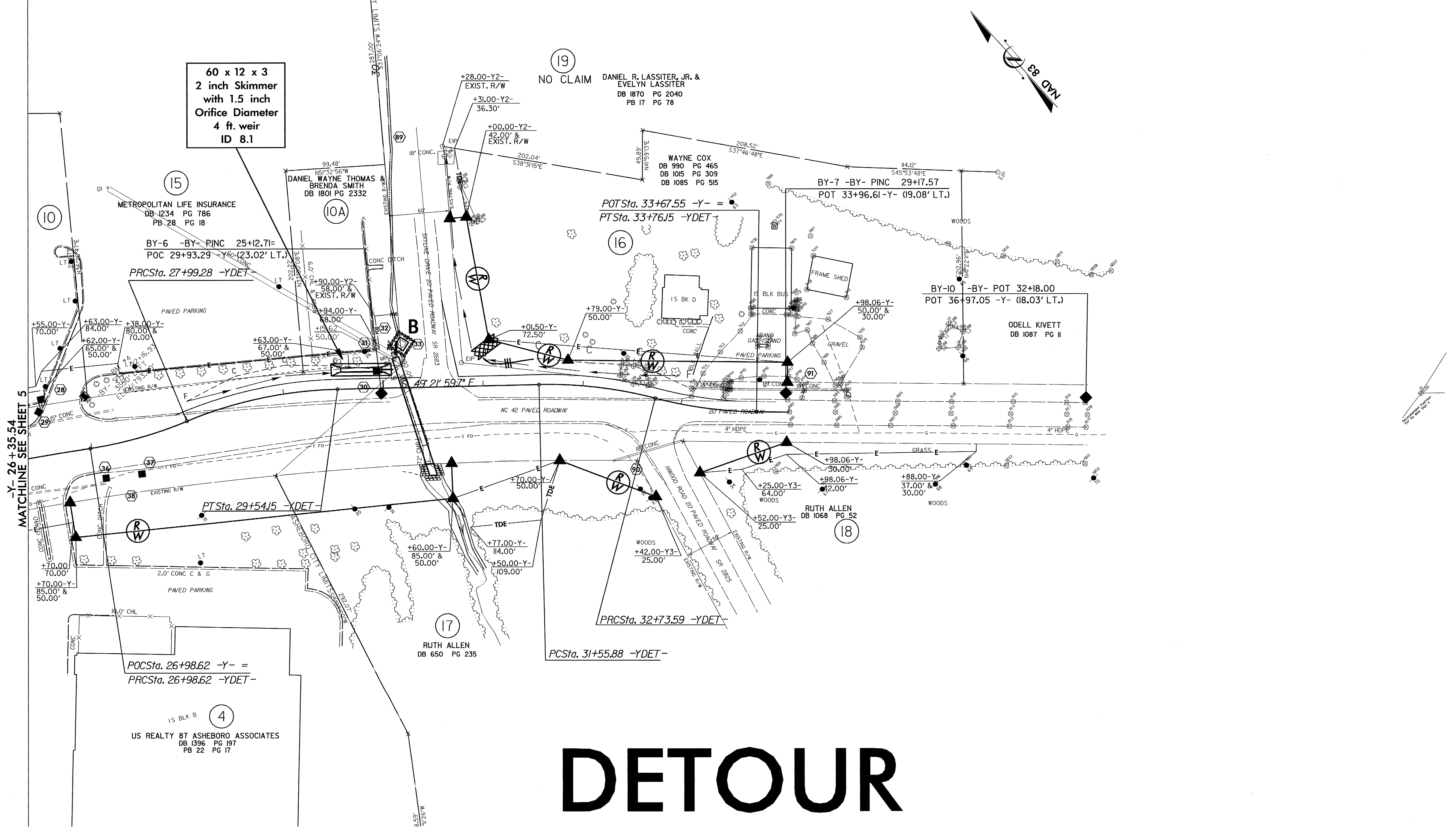
NOTE: FOR -Y- PROFILE SEE SHEET 10 & 11
NOTE: FOR -Y2- & -Y3-PROFILES SEE SHEET 11



PROJECT REFERENCE NO.	SHEET NO.
U-3401	EC-14/CONST.8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMP -Y-

PI Sta 11+06.88	PI Sta 12+64.25	PI Sta 13+92.66	PI Sta 17+30.18	PI Sta 18+40.19
Δ = 3° 44′ 21.9″ (RT)	Δ = 13° 43′ 57.9″ (LT)	Δ = 21° 07′ 33.6″ (RT)	Δ = 16° 03′ 27.6″ (RT)	Δ = 13° 59′ 32.0″ (LT)
D = 1° 45′ 00.1″	D = 13° 38′ 30.7″	D = 13° 38′ 30.7″	D = 13° 38′ 30.7″	D = 13° 38′ 30.7″
L = 213.68′	L = 100.67′	L = 154.86′	L = 117.71′	L = 102.57′
T = 106.88′	T = 50.58′	T = 78.32′	T = 59.24′	T = 51.54′
R = 3,274.00′	R = 420.00′	R = 420.00′	R = 420.00′	R = 420.00′



NAD 83
60 x 12 x 3
2 inch Skimmer
with 1.5 inch
Orifice Diameter
4 ft. weir
ID 8.1
19
NO CLAIM
DANIEL R. LASSITER, JR. &
EVELYN LASSITER
DB 1870 PG 2040
PB 17 PG 78
WAYNE COX
DB 990 PG 465
DB 1015 PG 309
DB 1085 PG 515
15
METROPOLITAN LIFE INSURANCE
DB 1234 PG 786
PB 28 PG 18
10
10A
DANIEL WAYNE THOMAS &
BRENDA SMITH
DB 1801 PG 2332
16
BY-6 -BY- PINC 25+12.71=
POC 29+93.29 -Y- (23.02′ LT.)
PRCSta. 27+99.28 -YDET-
POTSta. 33+67.55 -Y- =
PTSta. 33+76.15 -YDET-
BY-7 -BY- PINC 29+17.57
POT 33+96.61 -Y- (19.08′ LT.)
BY-10 -BY- POT 32+18.00
POT 36+97.05 -Y- (18.03′ LT.)
ODELL KIVETT
DB 1087 PG 11
FRAME SHED
WOODS
PAVED PARKING
NC 42 PAVED ROADWAY
SKYLINE DRIVE 20′ PAVED ROADWAY SR 2683
ASHEBORO CITY LIMITS
INWOOD ROAD 20′ PAVED ROADWAY SR 2825
PTSta. 29+54.15 -YDET-
PRCSta. 32+73.59 -YDET-
PCSta. 31+55.88 -YDET-
POCSta. 26+98.62 -Y- =
PRCSta. 26+98.62 -YDET-
RUTH ALLEN
DB 1068 PG 52
18
17
RUTH ALLEN
DB 650 PG 235
4
US REALTY 87 ASHEBORO ASSOCIATES
DB 1396 PG 197
PB 22 PG 17
-Y- 26+35.54
MATCHLINE SEE SHEET 5

DETOUR