TIP PROJECT: U-3810

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-3810	EC-1	

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

STATE OF NORTH CAROLINA

DIVISION OF HIGHWAYS

PLAN FOR PROPOSED

HIGHWAY EROSION CONTROL

ONSLOW COUNTY

LOCATION: SR 1406 (PINEY GREEN ROAD) FROM US 17 (MARINE BOULEVARD) TO NC 24 (FREEDOM WAY)

TYPE OF WORK: GRADING, PAVING, DRAINAGE, WIDENING SIGNING, SIGNALS, CULVERTS, STRUCTURES AND RETAINING WALL

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
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	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	
1633.02	Temporary Rock Silt Check Type-B	
	Wattle/ Coir Fiber Wattle	EW / CFW
	Wattle/ Coir Fiber Wattle with Polyacrylamide (PAM)	
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	
1630.06	Special 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	
	Infiltration Basin	

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

Part 3 of 4

GRAPHIC SCALE

0

PLANS

0

PROFILE (HORIZONTAL)

0

PROFILE (VERTICAL)

ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared in the Office of:

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

2012 STANDARD SPECIFICATIONS

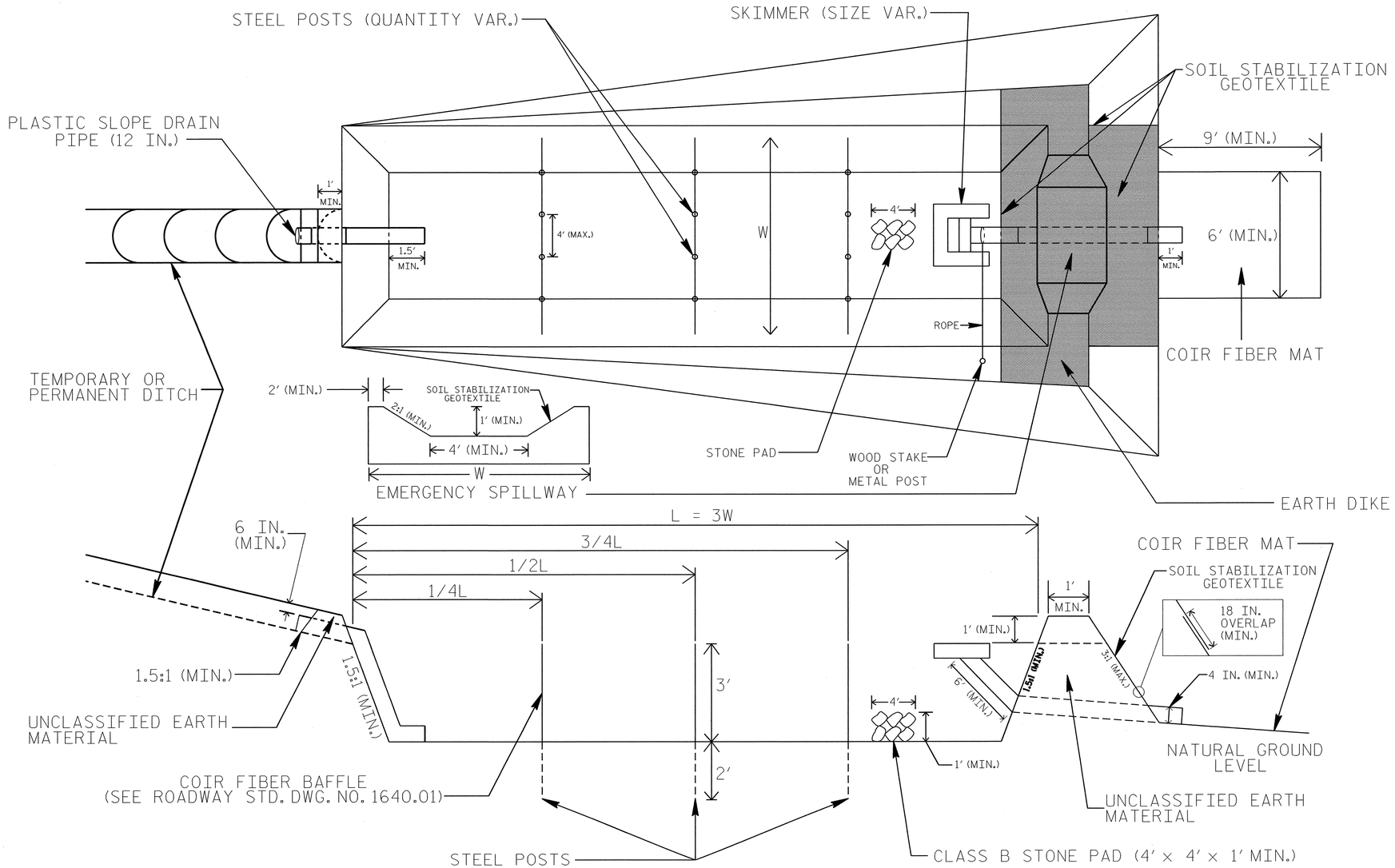
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

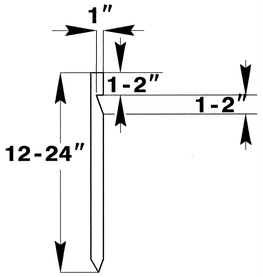
1604.01	Railroad Erosion Control Detail	1632.01	Rock Inlet Sediment Trap Type A
1605.01	Temporary Silt Fence	1632.02	Rock Inlet Sediment Trap Type B
1606.01	Special Sediment Control Fence	1632.03	Rock Inlet Sediment Trap Type C
1607.01	Gravel Construction Entrance	1633.01	Temporary Rock Silt Check Type A
1622.01	Temporary Berms and Slope Drains	1633.02	Temporary Rock Silt Check Type B
1630.01	Riser Basin	1634.01	Temporary Rock Sediment Dam Type A
1630.02	Silt Basin Type B	1634.02	Temporary Rock Sediment Dam Type B
1630.03	Temporary Silt Ditch	1635.01	Rock Pipe Inlet Sediment Trap Type A
1630.04	Stilling Basin	1635.02	Rock Pipe Inlet Sediment Trap Type B
1630.05	Temporary Diversion	1640.01	Coir Fiber Baffle
1630.06	Special Stilling Basin	1645.01	Temporary Stream Crossing
1631.01	Matting Installation		

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-2
R/W SHEET NO.	
~~BY HIGHWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~

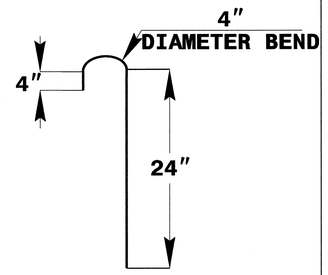
SKIMMER BASIN WITH BAFFLES DETAIL



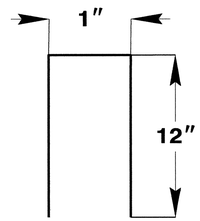
2" x 2" (nominal) WOODEN STAKE



#10 STEEL REINFORCEMENT BAR



1" (nominal) STAPLE



COIR FIBER MAT ANCHOR OPTIONS

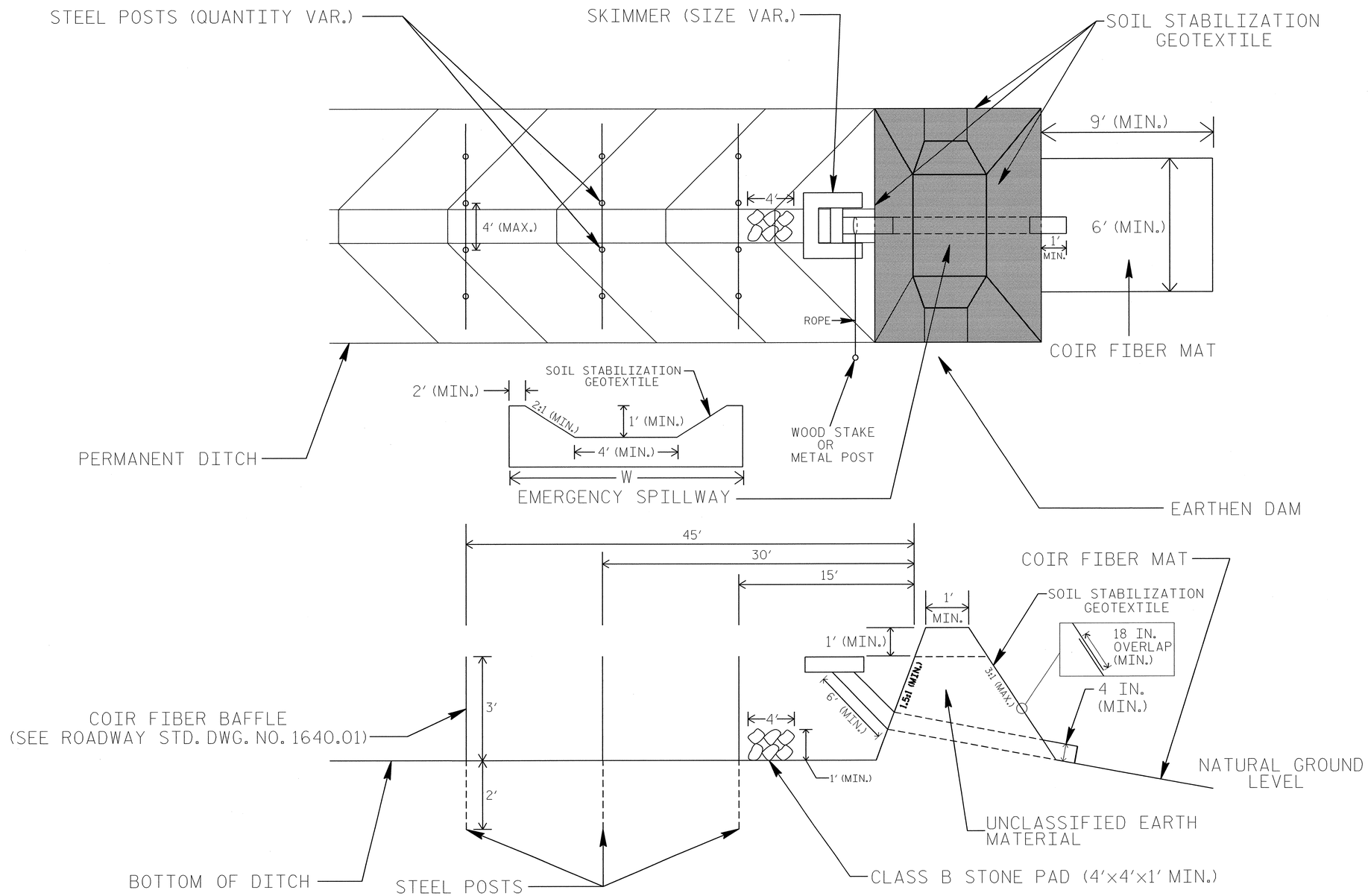
NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. FOR BASIN DEPTH OF 3 FT., THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
4. DETERMINE EMERGENCY SPILLWAY LENGTH (FT.) USING Q/0.8, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTRATION GEOTEXTILE AS DIRECTED.
6. SOIL STABILIZATION GEOTEXTILE FOR EMERGENCY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

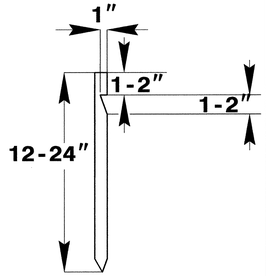
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-2A
R/W SHEET NO.	
[redacted] ENGINEER	[redacted] ENGINEER

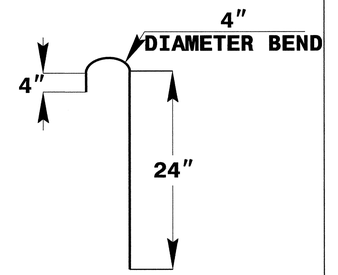
EARTHEN DAM WITH SKIMMER



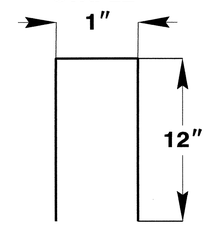
2″ x 2″ (nominal) WOODEN STAKE



#10 STEEL REINFORCEMENT BAR



1″ (nominal) STAPLE



COIR FIBER MAT ANCHOR OPTIONS

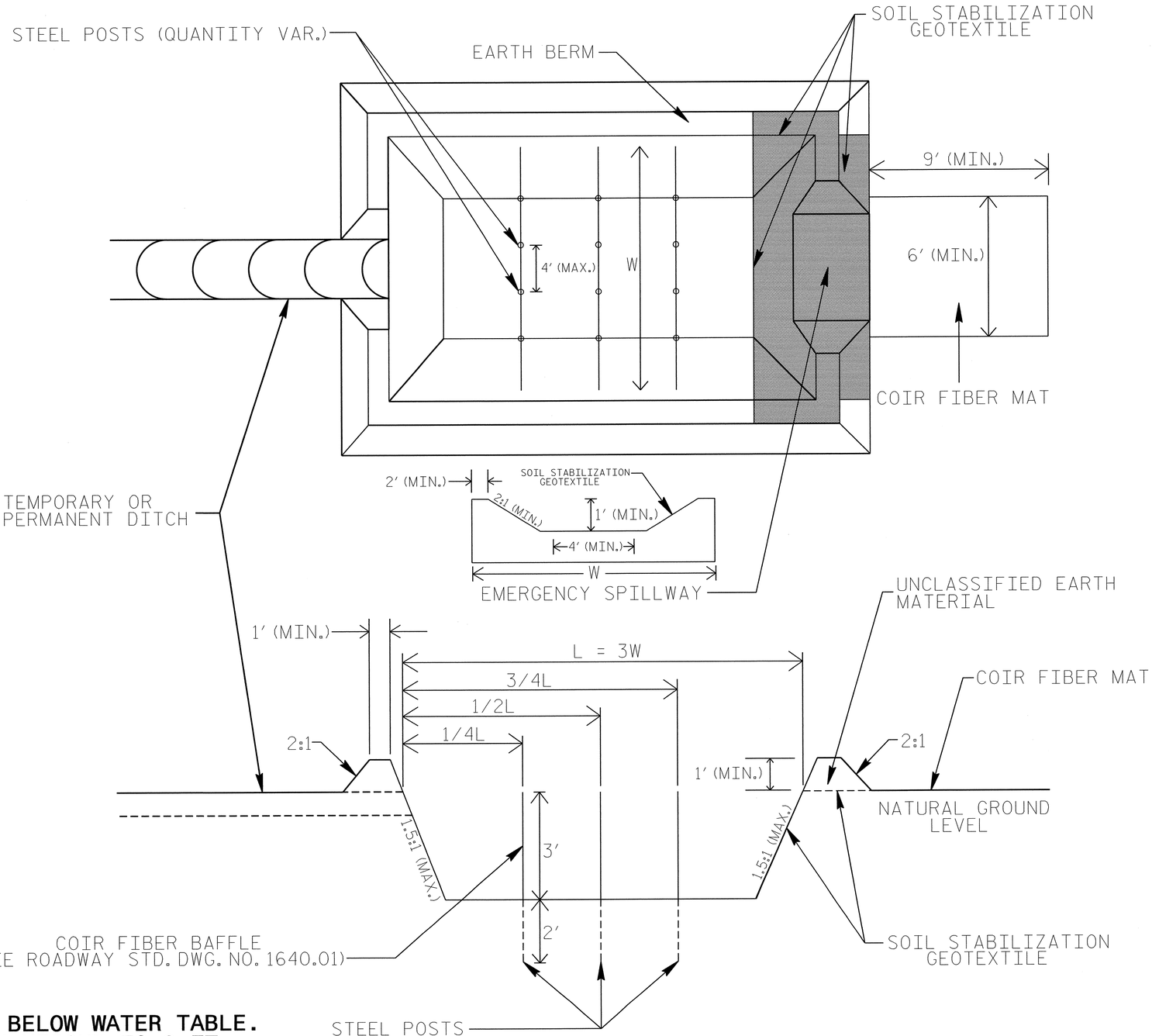
NOTES

1. LIMIT EARTHEN DAM HEIGHT TO 5 FT.
2. DETERMINE EMERGENCY SPILLWAY LENGTH (FT.) USING Q/0.8, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
3. SOIL STABILIZATION GEOTEXTILE FOR EMERGENCY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

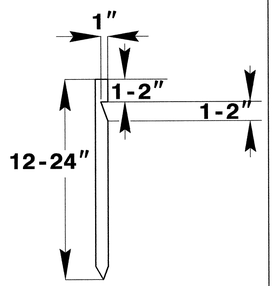
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-2B
R/W SHEET NO.	
[redacted] ENGINEER	[redacted] ENGINEER

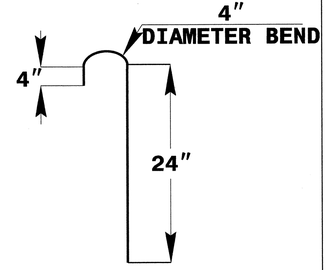
INFILTRATION BASIN WITH BAFFLES DETAIL



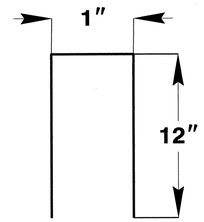
2″ x 2″ (nominal) WOODEN STAKE



#10 STEEL REINFORCEMENT BAR



1″ (nominal) STAPLE



COIR FIBER MAT ANCHOR OPTIONS

NOTES

1. DO NOT EXCAVATE BELOW WATER TABLE.
2. LIMIT EARTH BERM HEIGHT TO 3 FT.
3. AVOID COMPACTING BOTTOM OF BASIN.
4. FOR BASIN DEPTH OF 3 FT., THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
5. DETERMINE EMERGENCY SPILLWAY LENGTH (FT.) USING Q/0.8, WHERE Q IS FLOW RATE (CFS) INTO BASIN.

NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-2C
R/W SHEET NO.	
~~R/W DIVISION ENGINEER~~	~~HYDRAULICS ENGINEER~~

BORROW PIT DEWATERING BASIN DETAIL

GENERAL NOTES:

DETERMINE BORROW PIT DEWATERING BASIN SIZE USING $V = 8.0203 * Q * T$, WHERE V IS VOLUME (FT^3), Q IS PUMP FLOW RATE (GPM), AND T IS DEWATERING TIME (HR). USE MAXIMUM FLOW RATE OF 1000 GPM AND A MINIMUM DEWATERING TIME OF 2 HOURS.

RISER SHALL BE A NON-PERFORATED, SMOOTH OR CORRUGATED MATERIAL WITH A FLASHBOARD OPTION.

CONSTRUCT THE COIR FIBER BAFFLE IN ACCORDANCE WITH ROADWAY STANDARD DRAWING 1640.01 AND WITH MATERIAL THAT MEETS THE SPECIFICATIONS OF ROADWAY STANDARD 1060-14.

PROVIDE 5′ STEEL POSTS OF THE SELF-FASTENER ANGLE STEEL TYPE. INSTALL STEEL POSTS WITH NO MORE THAN 3′ OF THE POST APPEARING ABOVE THE GROUND.

ATTACH THE COIR FIBER MAT TO THE STEEL POSTS WITH WIRE OR OTHER ACCEPTABLE MEANS AND STAPLED INTO THE BOTTOM AND SIDE SLOPES OF THE BASIN WITH 12″ STAPLES.

INSTALL TYPE 2 GEOTEXTILE ON SIDESLOPES AND BOTTOM OF BASIN AT INLET AS SHOWN IN THE DETAIL.

USE THE TYPICAL SECTION SHOWN FOR THE BORROW PIT DEWATERING BASIN AS A GUIDE. THE BASIN MAY HAVE ANY TYPE CONFIGURATION AS LONG AS SUFFICIENT VOLUME IS PROVIDED AND PROVISIONS ARE MADE FOR A NON-PERFORATED RISER.

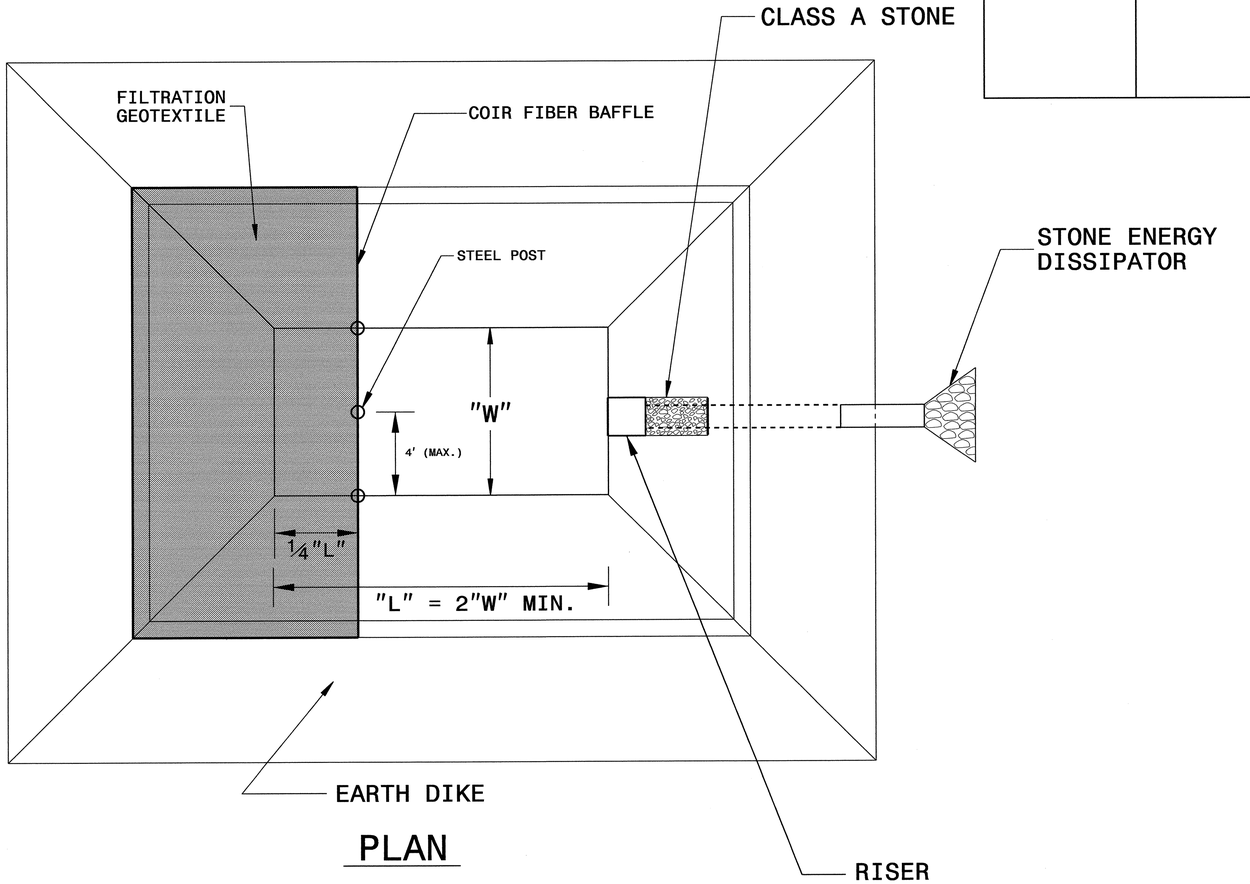
DO NOT EXCEED 3½ FT. IN HEIGHT FOR THE EARTH DIKES REQUIRED FOR BORROW PIT DEWATERING BASIN.

THE BORROW PIT DEWATERING BASIN SIZE IS VARIABLE AND DEPENDENT ON SPECIFIC SITE REQUIREMENTS AS WELL AS PROPOSED CONSTRUCTION OPERATIONS.

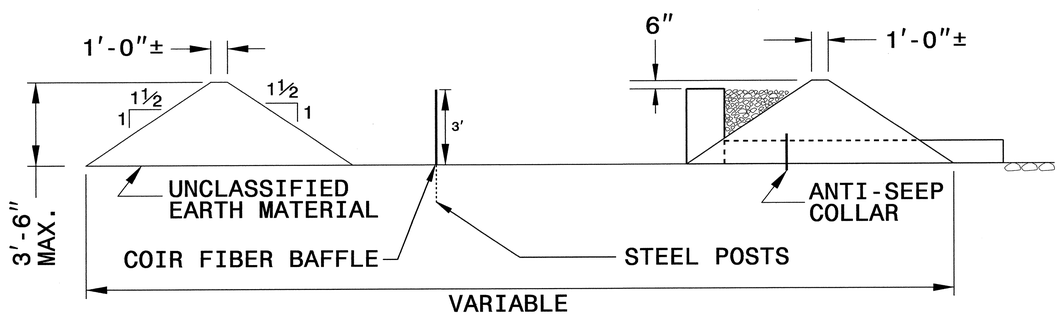
SUBMIT THE SIZE, LOCATION AND RISER PIPE MATERIAL FOR APPROVAL PRIOR TO CONSTRUCTION.

PUMP THE EFFLUENT INTO THE BORROW PIT DEWATERING BASIN TO A MAXIMUM DEPTH OF 6 IN. BELOW TOP OF EARTH DIKE.

PROVIDE A STONE ENERGY DISSIPATOR PAD AT THE OUTLET OF THE PUMP DISCHARGE HOSE AND OUTLET OF THE RISER BARREL IN ACCORDANCE WITH ROADWAY STANDARD DRAWING 876.02 FOR OUTLET W/O DITCH.



PLAN

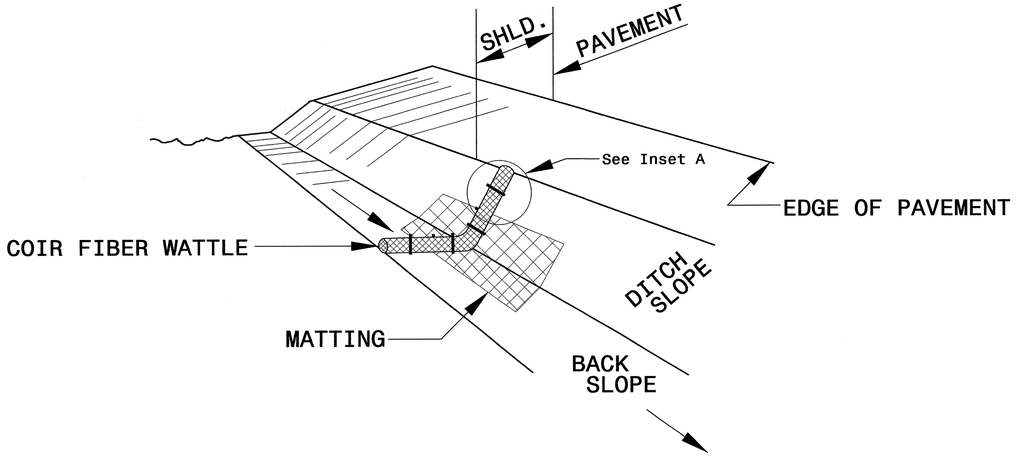


TYPICAL SECTION VIEW

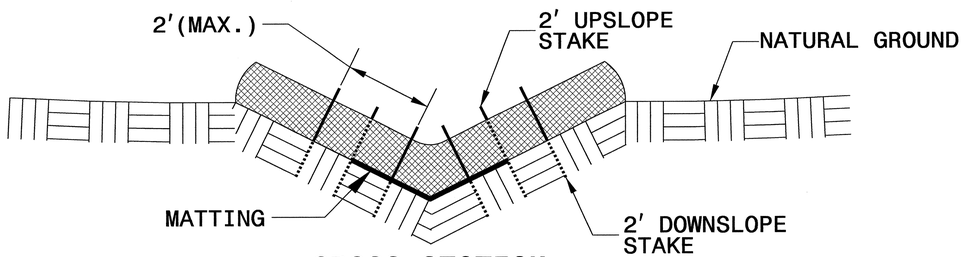
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-2D
R/W SHEET NO.	
~~REGIONAL DESIGN ENGINEER~~	~~DISTRICT ENGINEER~~

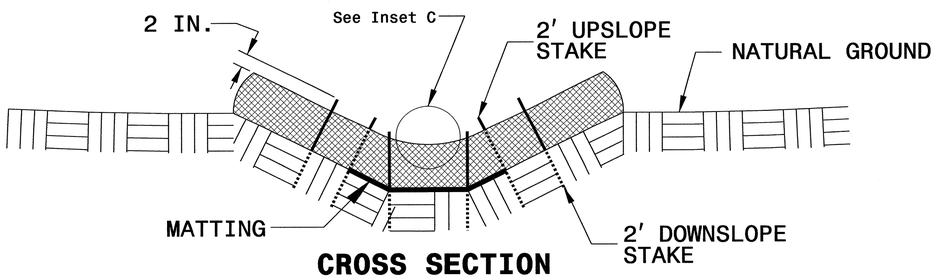
COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

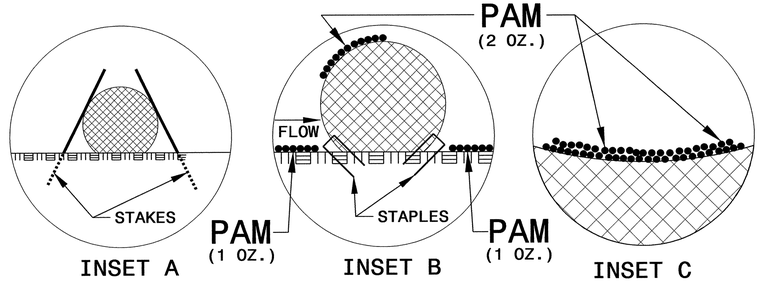
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

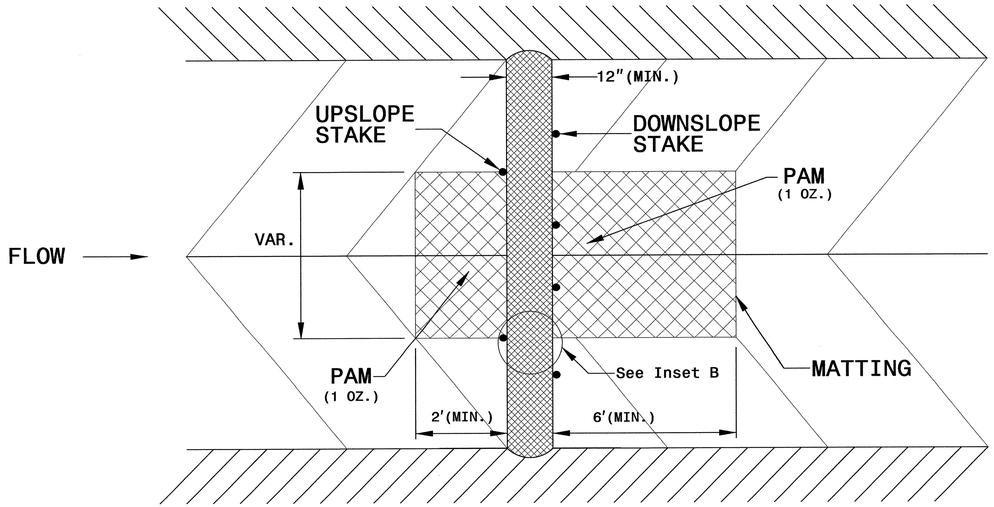
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.

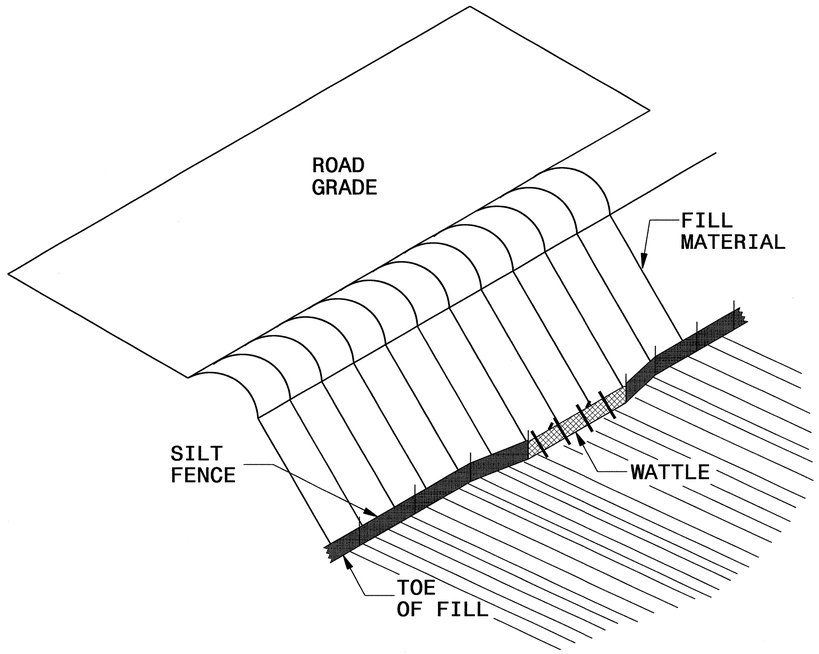




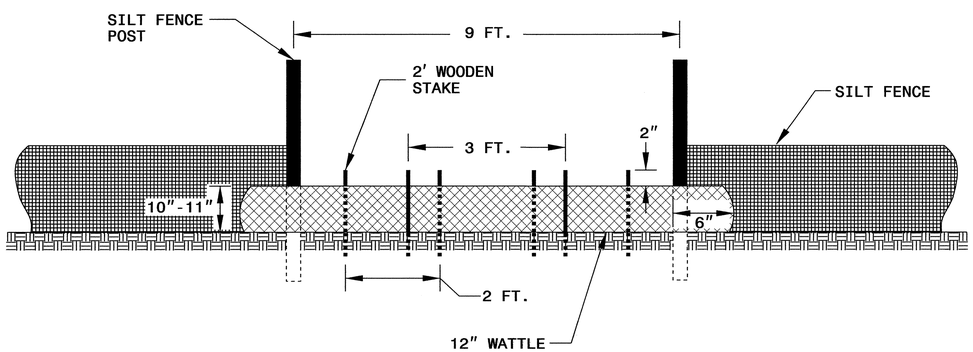
TOP VIEW

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-2E
R/W SHEET NO.	
[redacted] ENGINEER	[redacted] ENGINEER

SILT FENCE COIR FIBER WATTLE BREAK DETAIL



ISOMETRIC VIEW



VIEW FROM SLOPE

NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE AND LENGTH OF 10 FT.

EXCAVATE A 1 TO 2 INCH TRENCH FOR WATTLE TO BE PLACED.

DO NOT PLACE WATTLE ON TOE OF SLOPE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.

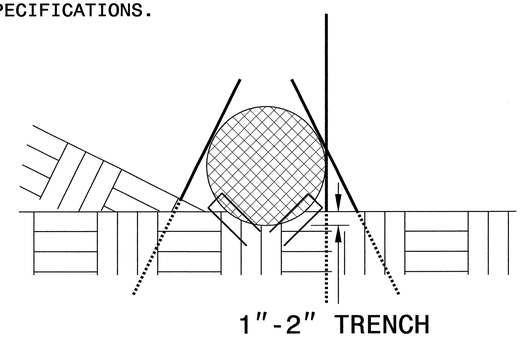
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

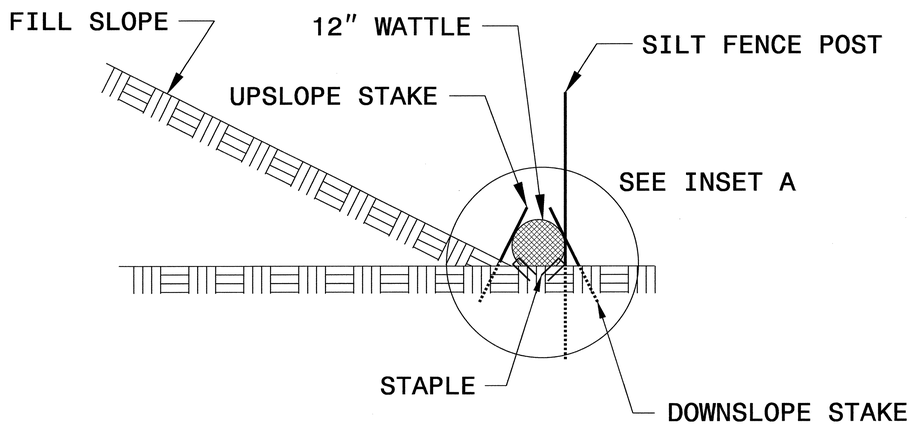
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

WATTLE INSTALLATION CAN BE ON OUTSIDE OF THE SILT FENCE AS DIRECTED.

INSTALL TEMPORARY SILT FENCE IN ACCORDANCE WITH SECTION 1605 OF THE STANDARD SPECIFICATIONS.

INSET A





SIDE VIEW

PROJECT REFERENCE NO.	SHEET NO.
U-3810	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	-Y7-	15+50	16+50	LT	45
6	-Y7-	15+50	16+50	RT	45
7	-Y10-	16+60	17+25	LT	105
7	-Y12-	15+60	17+25	LT	340
7	-Y9-	11+00	11+50	LT	45
7	-Y9-	11+00	11+50	RT	45
8	-Y14-	16+50	21+75	LT	540
10	-L-	91+20	92+50	RT	165
12	-L-	119+00	119+50	RT	70
17	-L-	178+50	185+70	LT	2625
17	-Y29-	12+00	16+00	LT	1220
17	-Y29-	12+00	16+50	RT	855
17	-Y29-	19+00	20+85	LT	380
18	-L-	201+25	203+00	RT	90
21	-Y39-	11+00	13+50	LT	425
21	-Y39-	11+50	13+50	RT	270
27	-L-	329+50	331+65	LT	480
27	-L-	328+90	329+75	RT	90
29	-Y52-	10+00	10+50	LT	70
29	-Y53-	23+10	25+90	LT	450
30	-Y14-	24+00	28+50	LT	1015
			SUBTOTAL		9370
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					23730
				TOTAL	33100
				SAY	33500

PERMANENT SOIL REINFORCEMENT MAT

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-L-	12+50	12+60	LT	45
			SUBTOTAL		45
		ADDITIONAL PSRM TO BE INSTALLED			110
				TOTAL	155
				SAY	175

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-3A
~~ALTERNATE DESIGN ENGINEER~~	~~DIVISION ENGINEER~~

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-04/CONST.04
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~

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

BEGIN TIP PROJECT U-3810
-L- STA. 10+00.00

-Y- POT STA.28+25.00 =
-YSB- POT STA.28+25.00 (34.5' RT)
-YNB- POT STA.28+25.00 (35.0' LT)

END CONSTRUCTION
-Y- STA. 28+00.00

NCDOT GPS U3810-6

WILLIAM T. HUMPHREY, ET UX

C D W HOLDINGS LLC

(1) (NO CLAIM)

-BL-1

END RESURFACING
-YSB- Sta.24+66.00

BEGIN RESURFACING

END C&G

BEG.C&G +88

-Y- STA. 17+00.00 MATCH TO INSET

NAD 83/2001

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

SEE SHEET 2-N FOR -L- & -Y- INTERSECTION DETAIL
SEE SHEET 2-H FOR DITCH DETAILS
SEE SHEET 32 FOR -L- PROFILE
SEE SHEET 48 FOR -Y- & -YI- PROFILES

-YSB-
-Y-
-YNB-

S 48°03'26.0" W
PROP. 1'-6" C&G
PROP. 5" Mono. Conc. Island
15" RCP-IV
COLLAR AND EXTEND
REMOVE
TB JB w/MH
100' TAPER
4" PS
6" PS
24" RCP
30" RCP
18" RCP-IV
24" RCP-IV
30" RCP-IV
DI
CB
RETAIN
30' R
10' R
50' R
25' R
12' R
150' TAPER
60' TAPER
45° TAPER
US 17 SB
US 17 NB
32' BST
30' BST
23' BST
21' BST
16' BST
EXISTING R/W
EIP
EIPO
CONC
ISBKBUS
ISBK BUS
ISBKD
36" CONC
48" CMP
18" RCP
8" PVC
2'-6" CHANNELIZATION AREA
875' R (TYPICAL)
PROP. 2'-6" C&G
PROP. 16" C&G
PROP. 1'-6" C&G
PROP. 5' Mono. Conc. Island
SUNSET RD
LINE CONTINUES

TAIL DITCH OUTLET CLASS B RIP RAP EST. 25 TONS EST. 50 SY GEOTEXTILE SEE DETAIL 2

TAIL DITCH EST. 120 CY DDE SEE DETAIL 2

CLASS 'B' RIP RAP EST. 8 TONS EST. 21 SY GEOTEXTILE

HEAD DITCH EST. 5 CY DDE SEE DETAIL 3

SPECIAL CUT BASE DITCH SEE DETAIL 1

-L- POT Sta. 10+00.00 = -Y- POT Sta. 20+55.88

-L- POT Sta. 13+98.66 = -YI- POT Sta. 10+00.00

MATCH TO -Y- STA. 17+00.00

(2) M H C PROPERTIES, LLC

(3) HARRY C. BROWN FAMILY, L.L.C.

(4) A. G. LEE OIL COMPANY, INC.

(5) UNITED PENTECOSTAL CHURCH

(6) BAILEY & FULLER PROPERTIES, LLC

(7) UNITED PENTECOSTAL CHURCH OF JACKSONVILLE

(8) ARLINE K. COLLINS

CITY OF JACKSONVILLE

JACKSONVILLE CITY LIMITS

-BY- 71

-BYI- 76

END CONSTRUCTION
-YI- STA. 11+00.00

-YI- POT Sta.11+09.24

BEGIN CONSTRUCTION
-Y- STA. 12+45.00

-Y- POT STA.12+00.00 =
-YSB- POT STA.12+00.00 (34.5' RT)
-YNB- POT STA.12+00.00 (35.0' LT)

JUANITA HUMPHREY

CRAIG B. HUMPHREY

BEGIN RESURFACING
-Y- Sta.12+60.00

INSET

MATCH TO SHEET 5 -L- STA. 17+00.00

2012 ADT / 2032 ADT	SERVICE ROAD
-Y- US 17 MARINE BLVD.	1630 / 2372
	1096 / 1656
	30508 / 43388
	13000 / 13000
	356 / 516
	3840 / 6240
	17040 / 19440
	20608 / 35488
	-Y- US 17
	-L- PINEY GREEN ROAD (SR 1406)

REVISIONS

8/17/99

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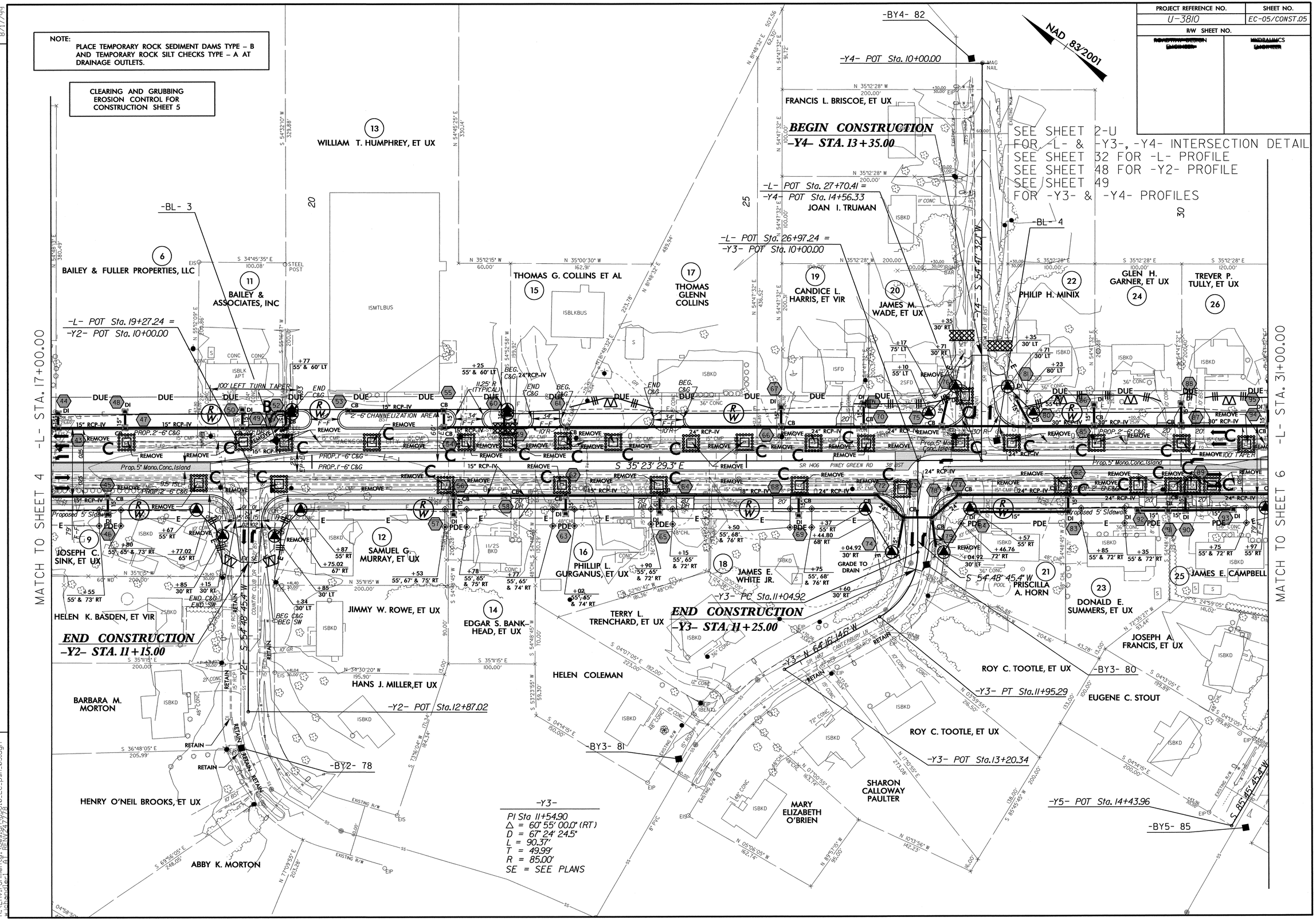
(Computer: A1) RENU2477788

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-05/CONST.05
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5



REVISIONS

8/17/99

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wjchandler1 AT RENV247778

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-06/CONST.06
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 6

NAD 83/2001

SEE SHEET 33 FOR -L- PROFILE
SEE SHEET 49 FOR -Y5-,-Y6- & -Y7- PROFILES
SEE SHEET 2-H FOR DITCH DETAILS
SEE SHEET 2-N
FOR -L- & -Y7- INTERSECTION DETAIL

BEGIN CONSTRUCTION
-Y6- STA. 13+35.00

-Y6- POT Sta. 10+00.00

-L- POT Sta. 31+57.25 =
-Y5- POT Sta. 10+00.00

-BL- 5

-L- POT Sta. 34+70.41 =
-Y6- POT Sta. 14+54.08

-L- STA. 31+00.00

MATCH TO SHEET 5

BEGIN CONSTRUCTION
-Y7- STA. 12+80.00

-Y7- PC Sta. 11+23.82

-Y7- POT Sta. 10+00.00

-L- PC Sta. 37+68.13

-Y7- PT Sta. 12+40.39

-BL- 8

-L- STA. 45+00.00

MATCH TO SHEET 7

GERALD J. McGURTY, ET UX (27)
KENNETH R. MOODY, ET UX (29)
HAZEL PATE (31)
DOMINIC D. COLVILLE (33)
MICHAEL J. ROSAGE, ET UX (35)
RENEE A. BURLESON (37)
TALMADGE MURPHY, ET UX (38)
STEVEN A. BUREK, ET UX (39)
BRUCE DUFFY (41)
KENNETH D. FARMER, ET UX (42)
JAMES H. HAGA, ET UX
JAMES L. HUTTON
THOMAS G. COLLINS, ET UX
ANDREW F. DILL
PHYLLIS B. GARDNER
DANA L. WALLS, JR.
CITY OF JACKSONVILLE

JAMIE M. LYBRAND, ET UX (28)
DONALD E. WILLIAMS, ET UX (30)
PAMELA A. PLANTE (32)
SPECIAL CUT DITCH SEE DETAIL 4
VERNA B. RESPASS (36)
ALAN R. BOUDREAU (40)
EARLIE T. JOHNSON, JR. (43)
JERRY LAWSON (44)

ALEXANDER DOYLE, ET UX (25)
JOHN A. VARGAS, JR., ET UX
ROBERT H. PATTY ET UX
JAMES R. NUNNERY, ET UX
CARMELO MAZZOTTA (34)

END CONSTRUCTION
-Y5- STA. 11+10.00

-Y5- PC Sta. 11+57.82

-Y5- PT Sta. 13+52.28

-L- POC Sta. 37+97.02 =
-Y7- POT Sta. 14+40.20

-Y7- PC Sta. 15+20.80

END CONSTRUCTION
-Y7- STA. 16+00.00

-Y7- PT Sta. 16+75.19

-Y7- POT Sta. 18+00.24

-BL- 7

-BY6- 86
-BY8- 90
-BY8- 91
-BY7- 89

-L-
PI Sta 40+44.45
Δ = 12° 36' 52.4" (LT)
D = 2° 17' 30.6"
L = 550.41'
T = 276.32'
R = 2,500.00'
SE = 03
RO = SEE PLANS

-Y5-
PI Sta 12+57.48
Δ = 30° 57' 00.0" (RT)
D = 15° 54' 55.8"
L = 194.46'
T = 99.67'
R = 360.00'

-Y7-
PI Sta 11+82.96
Δ = 23° 51' 08.5" (LT)
D = 20° 27' 46.0"
L = 116.56'
T = 59.14'
R = 280.00'

PI Sta 15+98.02
Δ = 3° 32' 18.1" (LT)
D = 2° 17' 30.6"
L = 154.39'
T = 77.22'
R = 2,500.00'
SE = SEE PLANS

2012 ADT / 2032 ADT	
-Y7- MIKE LOOP ROAD (SR 1471)	600 / 600
-L- PINEY GREEN ROAD (SR 1406)	17040 / 19440
	250 / 250
	250 / 250
	17040 / 19440
	200 / 200
	200 / 200
-Y7- IRIS LANE	500 / 500

REVISIONS
8/17/99

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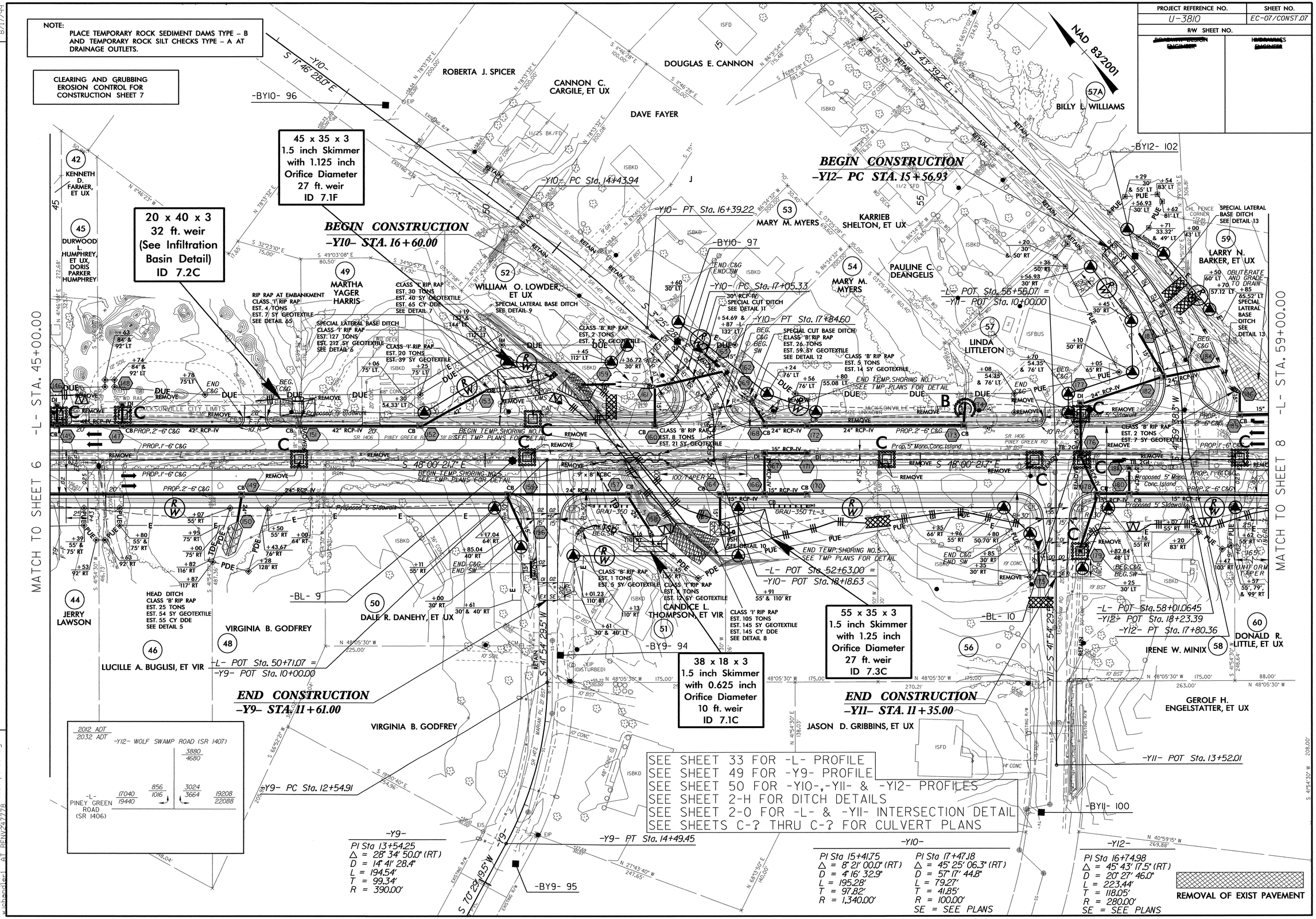
chandler AT REN/2477



PROJECT REFERENCE NO.
U-3810
SHEET NO.
EC-07/CONST.07
R/W SHEET NO.
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 7
NAD 83/2001
45 x 35 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
27 ft. weir
ID 7.1F
20 x 40 x 3
32 ft. weir
(See Infiltration
Basin Detail)
ID 7.2C
BEGIN CONSTRUCTION
-Y10- STA. 16+60.00
BEGIN CONSTRUCTION
-Y12- PC STA. 15+56.93
END CONSTRUCTION
-Y9- STA. 11+61.00
END CONSTRUCTION
-Y11- STA. 11+35.00
55 x 35 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
27 ft. weir
ID 7.3C
38 x 18 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
10 ft. weir
ID 7.1C
ROBERTA J. SPICER
CANNON C. CARGILE, ET UX
DOUGLAS E. CANNON
DAVE FAYER
BILLY L. WILLIAMS
KENNETH D. FARMER, ET UX
DURWOOD L. HUMPHREY, ET UX, DORIS PARKER HUMPHREY
MARTHA YAGER HARRIS
WILLIAM O. LOWDER, ET UX
MARY M. MYERS
KARRIEB SHELTON, ET UX
PAULINE C. DEANGELIS
LARRY N. BARKER, ET UX
LINDA LITTLETON
JERRY LAWSON
VIRGINIA B. GODFREY
DALE R. DANEHY, ET UX
CANDICE L. THOMPSON, ET VIR
LUCILLE A. BUGLISI, ET VIR
IRENE W. MINIX
DONALD R. LITTLE, ET UX
GEROLF H. ENGELSTATTER, ET UX
JASON D. GRIBBINS, ET UX
MATCH TO SHEET 6 -L- STA. 45+00.00
MATCH TO SHEET 8 -L- STA. 59+00.00
-Y10- PC Sta. 14+43.94
-Y10- PT Sta. 16+39.22
-Y10- PC Sta. 17+05.33
-Y10- PT Sta. 17+84.60
-L- POT Sta. 56+56.07 =
-Y11- POT Sta. 10+00.00
-L- POT Sta. 52+63.00 =
-Y10- POT Sta. 18+18.63
-L- POT Sta. 58+01.0645
-Y12- POT Sta. 18+23.39
-Y12- PT Sta. 17+80.36
-L- POT Sta. 50+71.07 =
-Y9- POT Sta. 10+00.00
-Y11- POT Sta. 13+52.01
-Y9- PC Sta. 12+54.91
-Y9- PT Sta. 14+49.45
-BY10- 96
-BY10- 97
-BY12- 102
-BL- 9
-BL- 10
-BY9- 94
-BY9- 95
-BY11- 100
2012 ADT
2032 ADT
-Y12- WOLF SWAMP ROAD (SR 1407)
-L- PINEY GREEN ROAD (SR 1406)
SEE SHEET 33 FOR -L- PROFILE
SEE SHEET 49 FOR -Y9- PROFILE
SEE SHEET 50 FOR -Y10-,-Y11- & -Y12- PROFILES
SEE SHEET 2-H FOR DITCH DETAILS
SEE SHEET 2-O FOR -L- & -Y11- INTERSECTION DETAIL
SEE SHEETS C-? THRU C-? FOR CULVERT PLANS
-Y9-
PI Sta 13+54.25
Δ = 28° 34' 50.0" (RT)
D = 14° 41' 28.4"
L = 194.54'
T = 99.34'
R = 390.00'
-Y10-
PI Sta 15+41.75
Δ = 8° 21' 00.0" (RT)
D = 4° 16' 32.9"
L = 195.28'
T = 97.82'
R = 1,340.00'
PI Sta 17+47.18
Δ = 45° 25' 06.3" (RT)
D = 57° 17' 44.8"
L = 79.27'
T = 41.85'
R = 100.00'
SE = SEE PLANS
-Y12-
PI Sta 16+74.98
Δ = 45° 43' 17.5" (RT)
D = 20° 27' 46.0"
L = 223.44'
T = 118.05'
R = 280.00'
SE = SEE PLANS
REMOVAL OF EXIST PAVEMENT
REVISIONS
8/17/99
04-JUN-2012 12:54
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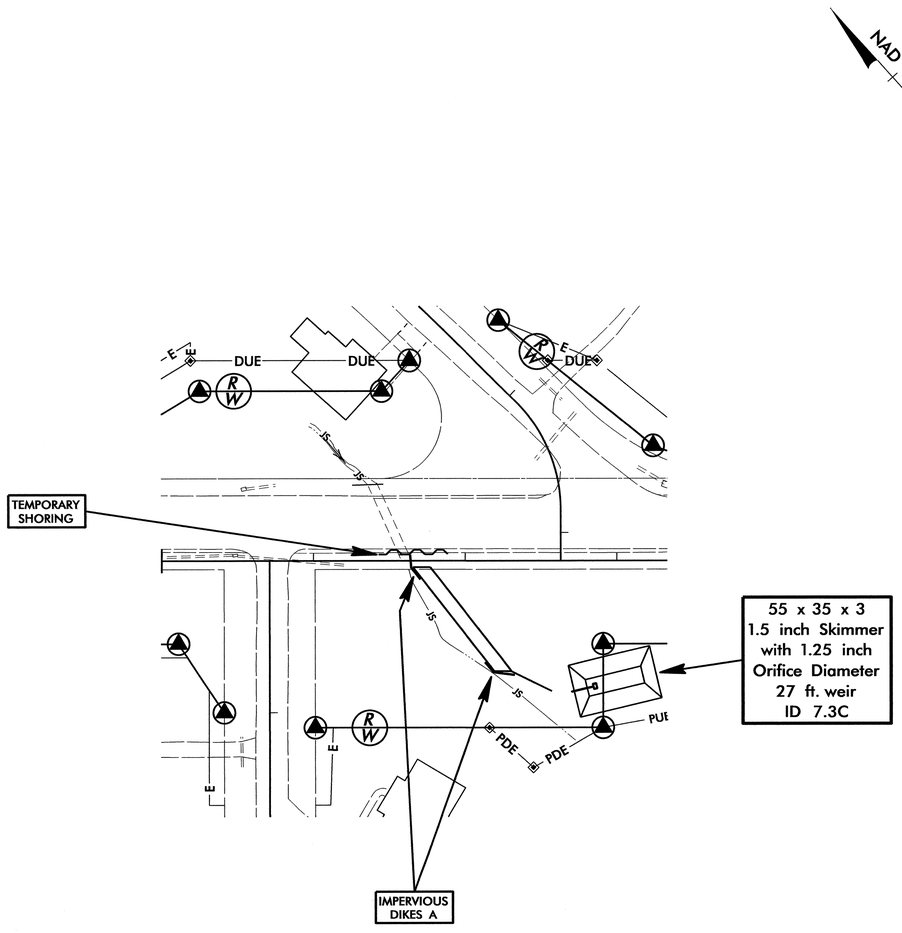
PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-8/CONST.7
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~

CULVERT CONSTRUCTION SEQUENCE STA. 51+68 –L–
(SHEET 1 OF 2)

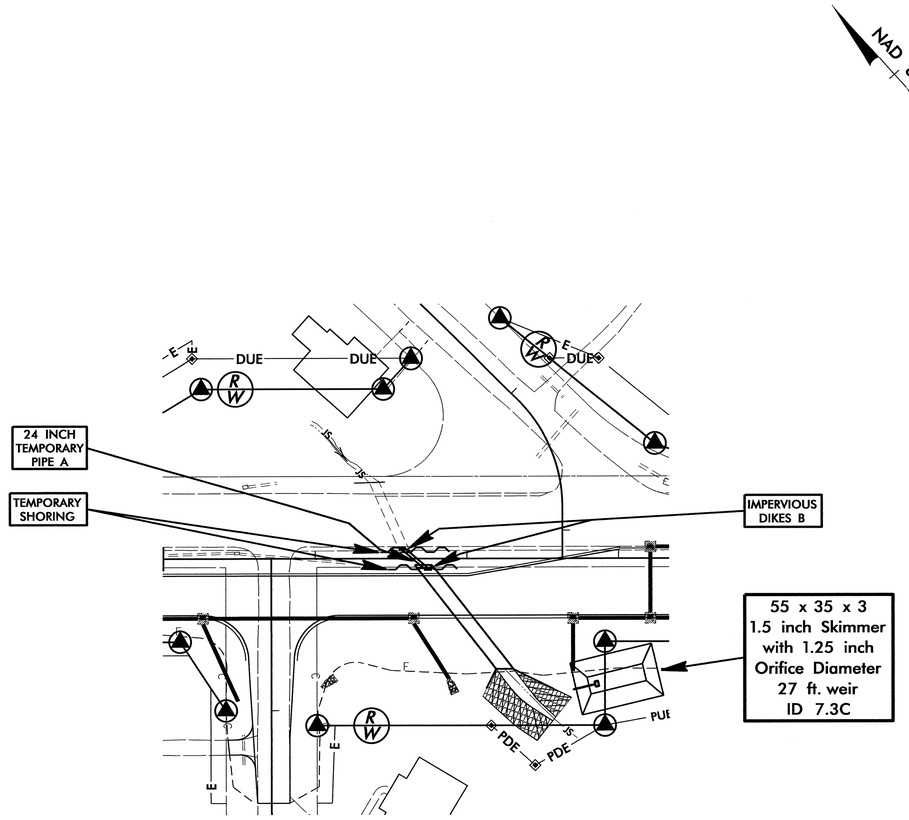
PHASE I

1. UTILIZE SKIMMER BASIN (55 FT. X 35 FT. X 3 FT.) AS STILLING BASIN.
2. SHIFT TRAFFIC TOWARD WESTBOUND LANE, INSTALL TEMPORARY SHORING, AND REMOVE 9 FT. OF EXISTING 72" CMP.
3. CONSTRUCT IMPERVIOUS DIKES A, DIVERTING FLOW.
4. CONSTRUCT 87 FT. OF PROPOSED CULVERT.



PHASE II

5. REMOVE IMPERVIOUS DIKES A, CONSTRUCT IMPERVIOUS DIKES B, AND INSTALL 24" TEMPORARY PIPE A, DIVERTING FLOW THROUGH COMPLETED PORTION OF PROPOSED CULVERT.
6. INSTALL TEMPORARY SHORING TO SUPPORT PROPOSED EASTBOUND LANES.
7. CONSTRUCT NORTHERN HEADWALL FOR PROPOSED CULVERT AND OUTLET CHANNEL IMPROVEMENTS.
8. REMOVE SKIMMER BASIN AND CONSTRUCT PROPOSED EASTBOUND LANES.
9. SHIFT TRAFFIC TO NEWLY CONSTRUCTED EASTBOUND LANES.

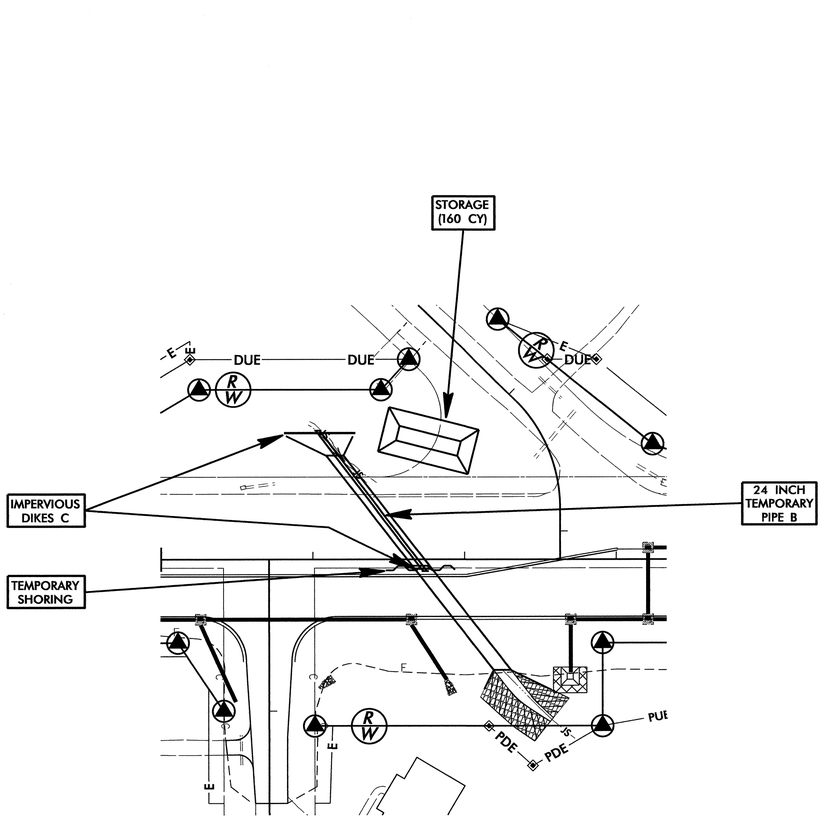


CULVERT CONSTRUCTION SEQUENCE STA. 51+68 –L– (SHEET 2 OF 2)

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-9/CONST.7
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~

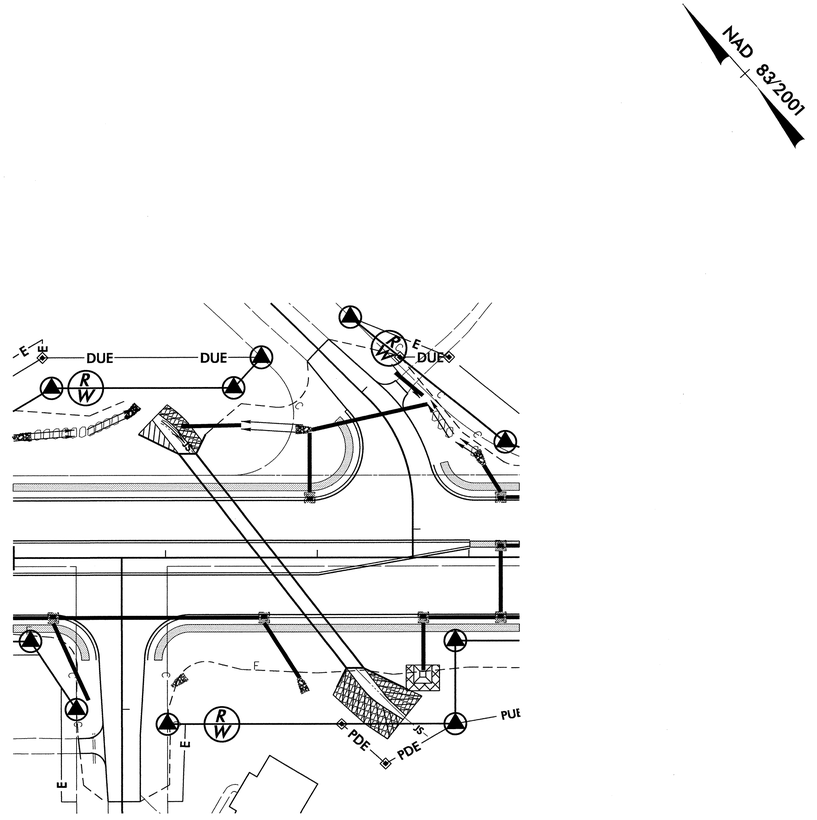
PHASE III

10. CONSTRUCT STILLING BASIN (160 CY).
11. REMOVE IMPERVIOUS DIKES B, TEMPORARY PIPE A, REMAINDER OF EXISTING 72" CMP, AND FIRST SECTION OF TEMPORARY SHORING.
12. CONSTRUCT IMPERVIOUS DIKES C AND 24" TEMPORARY PIPE B, DIVERTING FLOW.
13. CONSTRUCT REMAINDER OF PROPOSED CULVERT, AND ANY NECESSARY INLET CHANNEL IMPROVEMENTS.
14. REMOVE IMPERVIOUS DIKES C AND TEMPORARY PIPE B, ALLOWING FLOW THROUGH COMPLETED CULVERT.



PHASE IV

15. REMOVE STILLING BASIN.
16. REMOVE REMAINING TEMPORARY SHORING.
17. COMPLETE ROADWAY.



PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-10/CONST.08
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~

2012 ADT
2032 ADT

-Y14- COUNTRY CLUB ROAD (SR 1708)

2000 / 2000

-L- PINEY GREEN ROAD (SR 1406)

19208 / 22088 — 856 / 1016 — 228 / 308 — 27108 / 35988

4468 / 4948 — 12996 / 19556

18380 / 25180

-Y14- COUNTRY CLUB ROAD (SR 1403)

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 8

NAD 83/2001

BEGIN CONSTRUCTION
-Y14- STA. 12+00.00

BEGIN CONSTRUCTION
-Y15- STA. 12+60.00

36 x 18 x 3
10 ft. weir
(See Infiltration Basin Detail)
ID 8.1C

END CONSTRUCTION
-Y13- STA. 13+00.00

-L- STA. 59+00.00

-L- STA. 73+00.00

MATCH TO SHEET 7

MATCH TO SHEET 9

MATCH TO SHEET 30

-Y14- STA. 18+00.00

-Y15- STA. 14+25.240' W

-Y14- PC Sta. 10+21.52

-Y14- PT Sta. 12+28.44

-Y15- POT Sta. 10+00.00

-L- PC Sta. 61+20.06

-L- POC Sta. 62+41.26 =
-Y13- POT Sta. 10+00.00

-Y14- PC Sta. 14+10.69

-L- PT Sta. 66+86.93

-L- PC Sta. 72+17.69

-L- POC Sta. 72+37.61 =
-Y15- POT Sta. 13+87.01

-L- POC Sta. 66+77.16 =
-Y14- POC Sta. 15+51.06

-Y14- PT Sta. 17+25.56

-BY14- 106

-BY15- 111

-BY13- 105

-Y13- POT Sta. 14+70.38

-BL- 12

-BL- 13

-BL- II

ADAM W. ADKINS, ET UX

ADAM W. ADKINS

CARL J. RAUDENBUSH, ET UX

CARL L. SUTTON

MATTHEW S. LEWIS

WILLIE HALL

BYRON R. CAVENAUGH, ET UX

EDWARD A. HOWARD, ET UX

ILENA GILBERT MAYS

LARRY N. BARKER, ET UX

JIMMY E. BOLLENBACH, ET UX

TWF INC.

ARTHUR MARTIN, ET UX

MRS. SACHIKO JOHNSON

LUTHER M. WARREN

DONALD R. LITTLE, ET UX

DAWN L. McCULLEN

GEROLF H. ENGELSTATTER, ET UX

LISA M. FLETCHER, ET VIR

REDDIE DIXON, ET VIR

DUNCAN M. MOORE

CIRCLE K. PROPERTIES, INC.

DALE E. JOHNSON, ET UX

J & T SIDING, INC.

CHARLES M. SPENCER, ET UX

ROBERT R. HAMILTON, ET UX

INLET CHANNEL DETAIL
EST. 65 CY DDE
SEE DETAIL 14

SPECIAL LATERAL BASE DITCH
SEE DETAIL 17

SPECIAL LATERAL BASE DITCH
SEE DETAIL 16

OUTLET CHANNEL DETAIL
CLASS 'I' RIP RAP
EST. 60 TONS
EST. 85 SY GEOTEXTILE
EST. 30 CY DDE
SEE DETAIL 15

= PROP. PAINT STRIPING

-L-	-L-	-Y14-	-Y14-
PI Sta 64+08.89	PI Sta 76+45.36	PI Sta 11+28.10	PI Sta 15+69.58
Δ = 27° 03' 57.6" (LT)	Δ = 16° 13' 34.3" (RT)	Δ = 33° 52' 20.0" (RT)	Δ = 18° 59' 25.3" (RT)
D = 4° 46' 28.7"	D = 1° 54' 35.5"	D = 16° 22' 12.8"	D = 6° 01' 52.1"
L = 566.87'	L = 849.60'	L = 206.91'	L = 314.87'
T = 288.83'	T = 427.66'	T = 106.58'	T = 158.89'
R = 1,200.00'	R = 3,000.00'	R = 350.00'	R = 950.00'
SE = 04	SE = 03	SE = SEE PLANS	SE = SEE PLANS
RO = SEE PLANS	RO = SEE PLANS		

SEE SHEET 34 FOR -L- PROFILE
SEE SHEET 50 FOR -Y13- & -Y15- PROFILES
SEE SHEET 51 FOR -Y14- PROFILE
SEE SHEET 2-1 FOR DITCH DETAILS
SEE SHEET 2-0 FOR -L- & -Y14- INTERSECTION DETAIL

REVISIONS

8/17/99

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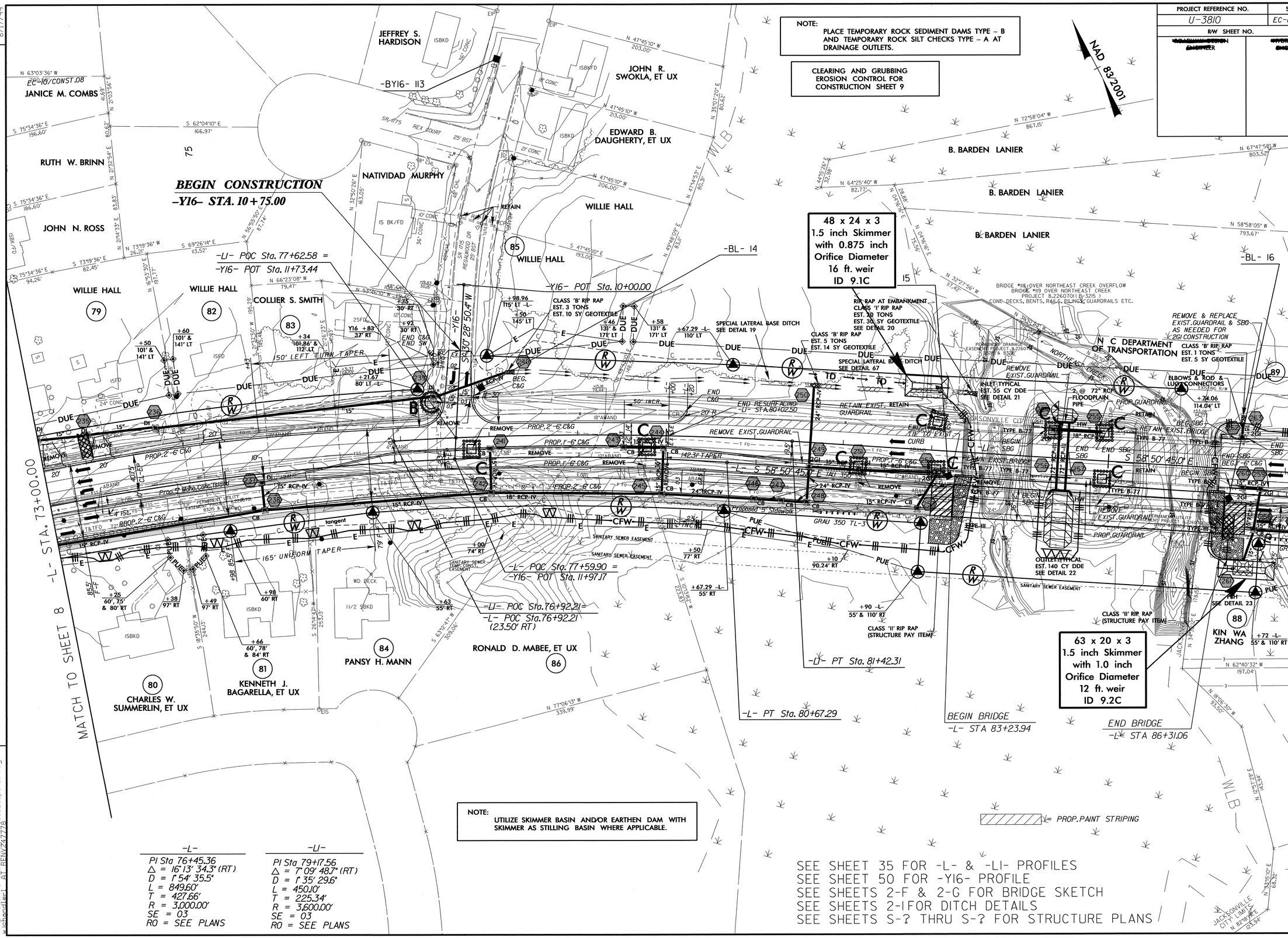
mchapman at BERN-21727/8

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-11/CONST.09
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 9



NOTE:
UTILIZE SKIMMER BASIN AND/OR EARTHEN DAM WITH SKIMMER AS STILLING BASIN WHERE APPLICABLE.

-L-	-LI-
PI Sta 76+45.36	PI Sta 79+17.56
Δ = 16° 13' 34.3" (RT)	Δ = 7° 09' 48.7" (RT)
D = 1° 54' 35.5"	D = 1° 35' 29.6"
L = 849.60'	L = 450.10'
T = 427.66'	T = 225.34'
R = 3,000.00'	R = 3,600.00'
SE = 03	SE = 03
RO = SEE PLANS	RO = SEE PLANS

SEE SHEET 35 FOR -L- & -LI- PROFILES
SEE SHEET 50 FOR -Y16- PROFILE
SEE SHEETS 2-F & 2-G FOR BRIDGE SKETCH
SEE SHEETS 2-I FOR DITCH DETAILS
SEE SHEETS S-? THRU S-? FOR STRUCTURE PLANS

REVISIONS

8/17/99

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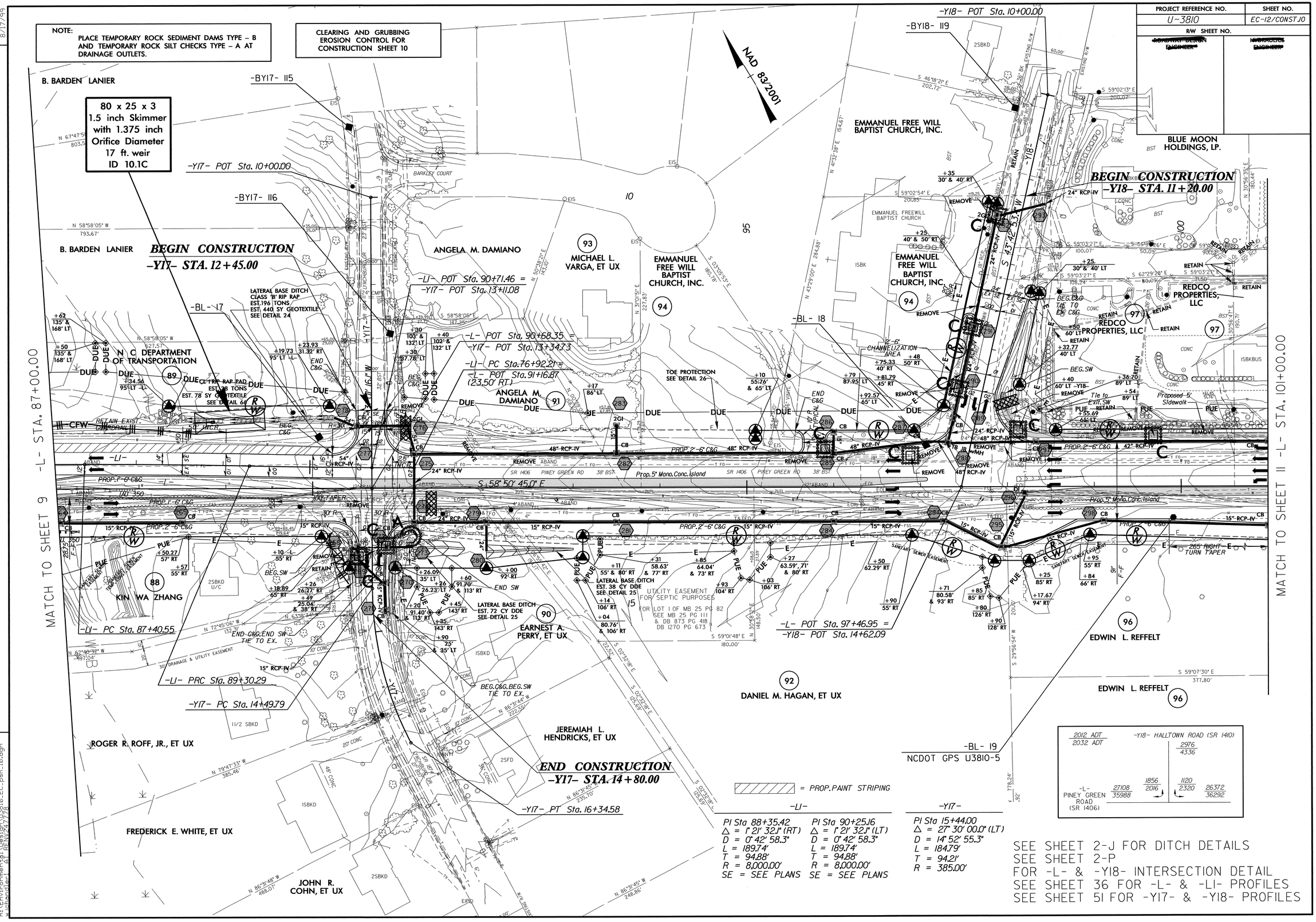
PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-12/CONST.10
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 10



= PROP. PAINT STRIPING

-L-

PI Sta 88+35.42	PI Sta 90+25.16
△ = 1° 21' 32.1" (RT)	△ = 1° 21' 32.1" (LT)
D = 0° 42' 58.3"	D = 0° 42' 58.3"
L = 189.74'	L = 189.74'
T = 94.88'	T = 94.88'
R = 8,000.00'	R = 8,000.00'
SE = SEE PLANS	SE = SEE PLANS

-Y17-

PI Sta 15+44.00
△ = 27° 30' 00.0" (LT)
D = 14° 52' 55.3"
L = 184.79'
T = 94.21'
R = 385.00'

2012 ADT / 2032 ADT	-Y18- HALLTOWN ROAD (SR 1410)			
			2976 / 4336	
-L- PINEY GREEN ROAD (SR 1406)	27108 / 35988	1856 / 2016	1120 / 2320	26372 / 36292

SEE SHEET 2-J FOR DITCH DETAILS
SEE SHEET 2-P
FOR -L- & -Y18- INTERSECTION DETAIL
SEE SHEET 36 FOR -L- & -L1- PROFILES
SEE SHEET 51 FOR -Y17- & -Y18- PROFILES

REVISIONS

8/17/99

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PROJECT REFERENCE NO.
U-3810
SHEET NO.
EC-13/CONST.11
R/W SHEET NO.
8/17/99
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 11
ROADWAY DESIGN
NAD 83/2001
REVISIONS
BEGIN CONSTRUCTION
-Y19- STA. 10+80.00
END CONSTRUCTION
-Y20- STA. 11+30.00
-L- POT Sta. 102+79.46 =
-Y19- POT Sta. 12+43.72
-L- POT Sta. 102+80.13 =
-Y20- POT Sta. 10+00.00
-Y19- POT Sta. 10+00.00
-Y20- POT Sta. 13+77.27
-L- PC Sta. 105+15.13
-L- PT Sta. 111+68.66
-BY19- 121
-BL- 20
-BY20- 124
-BY20- 125
MATCH TO SHEET 10 -L- STA. 101+00.00
MATCH TO SHEET 12 -L- STA. 115+00.00
97 REDCO PROPERTIES, LLC
98 BAILEY AND ASSOCIATES, INC.
99 HIGHLAND CROSSING, LLC
101 HOWARD AND SONS RENTALS
104 GEORGE A. HOWARD, JR., et ux
GEORGE A. HOWARD, JR., et ux
96 EDWIN L. REFFELT
100 EMMANUEL FREE WILL BAPTIST CHURCH
102 HARVEST PRESBYTERIAN CHURCH OF JACKSONVILLE (PCA), INC.
SR 1406 PINEY GREEN RD
CREEDMOOR RD
Proposed 5" Mono.Conc.Island
S 58° 50' 45.0" E
S 61° 57' 58.4" E
JACKSONVILLE CITY LIMITS
SANITARY SEWER EASEMENT
CLASS 'B' RIP RAP
EST. 1 TONS
EST. 5 SY GEOTEXTILE
DO NOT DISTURB TREE
-L-
PI Sta 108+41.97
Δ = 3° 07' 13.4" (LT)
D = 0° 28' 38.9"
L = 653.53'
T = 326.85'
R = 12,000.00'
SE = NC
2012 ADT
2032 ADT
-Y19- HIGHLAND CROSSING SHOPPING CENTER
3244 / 5084
1924 / 2564
1220 / 2420
26372 / 36292
25340 / 35740
-L- PINEY GREEN ROAD (SR 1406)
656 / 816
328 / 408
1084 / 1324
-Y20- CREEDMOOR ROAD (SR 1899)
SEE SHEET 2-V FOR LEFT OVER AT -L- STA 109+07
SEE SHEET 37 FOR -L- PROFILE
SEE SHEET 52 FOR -Y19- & -Y20- PROFILES
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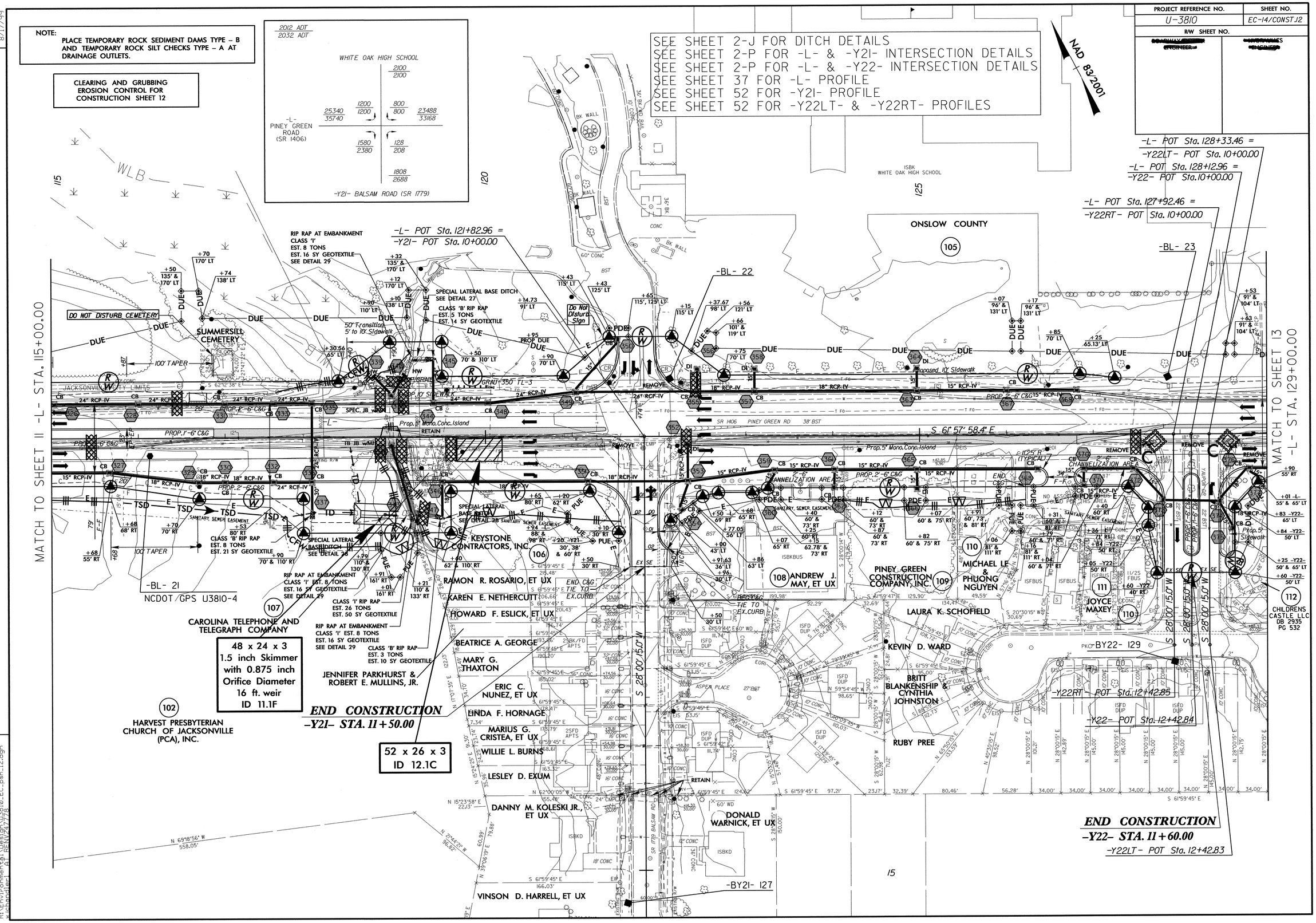
PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-14/CONST.12
R/W SHEET NO.	
[redacted]	[redacted]

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 12

SEE SHEET 2-J FOR DITCH DETAILS
SEE SHEET 2-P FOR -L- & -Y21- INTERSECTION DETAILS
SEE SHEET 2-P FOR -L- & -Y22- INTERSECTION DETAILS
SEE SHEET 37 FOR -L- PROFILE
SEE SHEET 52 FOR -Y21- PROFILE
SEE SHEET 52 FOR -Y22LT- & -Y22RT- PROFILES



REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-15/CONST13
R/W SHEET NO.	
RIGHT-OF-WAY DESIGN ENGINEER	HYDRAULICS ENGINEER

8/17/99

REVISIONS

2012 ADT
2032 ADT

WHITE OAK HIGH SCHOOL
STUDENT PARKING LOT

400 / 400

-L- PINEY GREEN ROAD (SR 1406)

23488 / 33168 — 200 / 200 — 200 / 200 — 23488 / 33168

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 13

NAD 83/2001

105 ONSLOW COUNTY

115 ESTATE BUILDERS, LLC

116 CENTERVIEW BAPTIST CHURCH OF JACKSONVILLE, NORTH CAROLINA, INC.

CENTERVIEW BAPTIST CHURCH OF JACKSONVILLE, NORTH CAROLINA, INC.

118 CENTERVIEW BAPTIST CHURCH OF JACKSONVILLE, NORTH CAROLINA, INC.

117 CENTERVIEW BAPTIST CHURCH OF JACKSONVILLE, NORTH CAROLINA, INC.

MATCH TO SHEET 12 -L- STA. 129+00.00

MATCH TO SHEET 14 -L- STA. 142+00.00

-L- POT Sta. 133+42.96 = -Y23- POT Sta. 10+00.00

-BL- 24

-BL- 25

265' RIGHT TURN TAPER

Proposed 10' Sidewalk

Proposed 5' Conc. Island

Prop. 5' Mono. Conc. Island

PROP. 2'-6" C&G

2'-6" CHANNELIZATION AREA

HEAD DITCH
WCLASS 'B' RIP RAP
EST. 26 TONS
EST. 28 SY GEOTEXTILE
EST. 50 CY DDE
SEE DETAIL 30

CLASS 'I' RIP RAP
EST. 25 TONS
EST. 50 SY GEOTEXTILE

CLASS 'B' RIP RAP
EST. 5 TONS
EST. 16 SY GEOTEXTILE

52 x 26 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
18 ft. weir
ID 13.1F

112 CHILDRENS CASTLE LLC

113 T. L. EDWARDS, ET AL

CHILDRENS CASTLE LLC

KEVIN D. WARD

RYAN C. SPENCER, ET UX

DAVID K. CROSSLEY

EDITH J. CROSSLEY, ET VIR

DAREN L. MCKEAN

114 PINEY GREEN CONSTRUCTION COMPANY, INC.

CAROLINA WATER SERVICE, INC., OF NORTH CAROLINA

BILLY H. GRAY, ET UX

END CONSTRUCTION
-Y23- STA. 11+20.00

-L- PC Sta. 136+62.09

-BY23- 131

-Y23- POT Sta. 15+63.70

-L-
PI Sta 141+39.54
Δ = 26° 51' 12.4" (RT)
D = 2° 51' 53.2"
L = 937.36'
T = 477.45'
R = 2,000.00'
SE = 04
RO= 200'

SEE SHEET 38 FOR -L- PROFILE
SEE SHEET 52 FOR -Y23- PROFILE
SEE SHEET 2-J FOR DITCH DETAILS
SEE SHEET 2-Q FOR -L- & -Y23- INTERSECTION DETAIL

15

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Extended All HNN 2/27/12

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-16/CONST.14
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 14

2012 ADT
2032 ADT

-L- PINEY GREEN ROAD (SR 1406)

23488 / 33168 — 23936 / 34896
856 / 3016 — 1304 / 4744
2160 / 7760

-Y24- HEMLOCK DRIVE (SR 1876)

NAD 83/2001

CENTERVIEW BAPTIST CHURCH OF JACKSONVILLE, NORTH CAROLINA, INC.

-L- POC Sta. 143+03.82 =
-Y24- POT Sta. 10+00.00

-BL- 26

NOTE: PLACE 1 FT. WIDE DRAINAGE SLOT OPENINGS IN MONOLITHIC ISLAND AT STA 143+80 -L- LT, STA 144+20 -L- LT, AND STA 144+60 -L- LT.

CENTERVIEW BAPTIST CHURCH OF JACKSONVILLE, NORTH CAROLINA, INC.

ROY LAIRD, ET UX

-DRI- POT Sta. 10+00.00

-DRI- PC Sta. 12+82.16

-DRI- S 46° 10' 43.0" W

BEGIN CONSTRUCTION
-DRI- STA. 13+10.00

-DRI- PT Sta. 13+58.16

GILROY B. WILSON, ET UX

FELICIA C. HINDS, ET VIR

BEGIN CONSTRUCTION
-Y25- STA. 11+90.00

EVA C. JAKOBSSON

DAVID SPENCER

CHARLES R. WILSON

JOHN O. ADAMS

-Y25- POT Sta. 10+00.00

JEAN M. RODRIGUEZ & VANESSA MAESTRE

JOSE L. MURILLO, SR., ET UX

ALBERT W. GAMBLIN, ET UX

PAMELA A. JAMES, ET VIR

CHARLES F. SINNAMON, ET UX

JOHN L. DILLAHUNT

CHARLES R. KIMBROUGH, ET UX

CECILIA N. CLARKE

CLIFTON CAIN, ET UX

-BY25- 135

Remove Existing Sidewalk Per Engineer -L- Sta.149+26 to 151+65 LT

Remove Existing Sidewalk Per Engineer -L- Sta.152+00 to 156+00 LT

Proposed 5' Sidewalk

Proposed 5' Mono. Island

Prop. 5' Mono. Conc. Island

CLASS 'B' RIP RAP EST. 3 TONS EST. 11 SY GEOTEXTILE

CLASS 'B' RIP RAP EST. 8 TONS EST. 21 SY GEOTEXTILE

60 x 28 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
20 ft. weir
ID 14.1F

TAIL DITCH EST. 250 CY DBE SEE DETAIL 31

NANCY T. HERNANDEZ (120)

-BY24- 133

-BY24- 134

END CONSTRUCTION
-Y24- STA. 11+40.00

-Y24- POT Sta. 11+49.59

C. M. S., INC. OF JACKSONVILLE (114)

PINEY GREEN CONSTRUCTION COMPANY, INC.

HOWARD AND SONS RENTALS, A NORTH CAROLINA GENERAL PARTNERSHIP (122)

-L- POT Sta. 147+18.90

-L- PT Sta. 145+99.45

-DRI- POT Sta. 14+25.95

-L- POT Sta. 151+84.57 =
-Y25- POT Sta. 13+08.11

-BL- 27

-L-
PI Sta 141+39.54
Δ = 26° 51' 12.4" (RT)
D = 2° 51' 53.2"
L = 937.36'
T = 477.45'
R = 2,000.00'
SE = 04
RO = 200'

-DRI-
PI Sta 13+20.23
Δ = 8° 42' 31.0" (RT)
D = 11° 27' 33.0"
L = 76.00'
T = 38.07'
R = 500.00'

2012 ADT
2032 ADT

-Y25- BIRCHWOOD LANE (SR 1804)

-L- PINEY GREEN ROAD (SR 1406)

23936 / 34896 — 250 / 250 — 500 / 500 — 250 / 250 — 23936 / 34896

REMOVAL OF EXIST PAVEMENT

SEE SHEET 2-J FOR DITCH DETAILS
SEE SHEET 2-R FOR -L- & -Y24- INTERSECTION DETAIL
SEE SHEET 38 FOR -L- PROFILE
SEE SHEET 52 FOR -Y24- & -Y25- PROFILES
SEE SHEET 56 FOR -DRI- PROFILE

MATCH TO SHEET 13 -L- STA. 142+00.00

MATCH TO SHEET 15 -L- STA. 156+00.00

REVISIONS 8/17/99

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jchandler1 AT RENZ7778

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-17/CONST.15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

8/17/99

REVISIONS

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 15

NAD 83/2001

-BY26- 137

-Y26- POT Sta. 10+00.00

-L- STA. 156+00.00

MATCH TO SHEET 14

MATCH TO SHEET 16

-L- STA. 170+00.00

MARTIN J. ESTRADA, ET UX

NAOMI R. HESS

CHRISTOPHER DAVIS, ET UX

EDUARDO CABOVERDE

CLIFTON CAIN, ET UX (131)

LUIS E. LOPEZ (133)

WILLIS J. BRINTON, ET UX (134)

TIMOTHY POWELL, JR. (135)

DANIEL L. WOTRING, ET UX (136)

DEREK D. ELWART, ET UX (137)

HOWARD CEMETERY

JOHN WAGGONER (140)

WILLIAM FORRESTER, ET UX (141)

JONATHAN NERIS, ET UX (142)

ELIJAH K. WANNE-MACHER, ET UX (144)

MICHAEL T. DEMARK, ET UX (145)

KENNETH W. DIXON, ET UX (146)

KENNETH W. DIXON, ET UX (148)

W.R. WILLIS RENTALS, LLC (147)

HOWARD AND SONS RENTALS, A NORTH CAROLINA GENERAL PARTNERSHIP (122)

HOWARD AND SONS RENTALS, A NORTH CAROLINA GENERAL PARTNERSHIP (122)

HOWARD AND SONS RENTALS, A NORTH CAROLINA GENERAL PARTNERSHIP (122)

Remove Existing Sidewalk Per Engineer Sta.156+00 to 163+85 LT

Proposed 5' Sidewalk

Prop. 5' Mono Conc. Island

BEGIN CONSTRUCTION -Y26- STA. 11+45.00

C. M. S., INC. OF JACKSONVILLE

BEGIN TEMP. SHORING NO.7 SEE TMP PLANS FOR DETAIL

BEG. TEMP. SHORING NO.6 SEE TMP PLANS FOR DETAIL

BEGIN TEMP. SHORING NO.2 SEE TMP PLANS FOR DETAIL

END TEMP. SHORING NO.2 SEE TMP PLANS FOR DETAIL

END TEMP. SHORING NO.7 SEE TMP PLANS FOR DETAIL

SHORING NO.6

-BL- 28

-BL- 29

-BL- 30

-L- PC Sta. 162+75.46

-L- POC Sta. 164+00.49 = -Y26- POT Sta. 12+88.84

-L-
PI Sta 168+42.34
Δ = 41° 24' 17.2" (LT)
D = 3° 49' 11.0"
L = 1,083.97'
T = 566.87'
R = 1,500.00'
SE = 04
RO = 200'

= PROP. PAINT STRIPING

SEE SHEET 2-J FOR DITCH DETAILS
SEE SHEET 2-X FOR CULVERT DETOUR
SEE SHEET 2-X FOR CULVERT PHASING DETOUR
SEE SHEET 2-R FOR -L- & -Y26- INTERSECTION DETAIL
SEE SHEET 39 FOR -L- PROFILE
SEE SHEET 52 FOR -Y26- PROFILE
SEE SHEETS C-? THRU C-? FOR CULVERT PLANS

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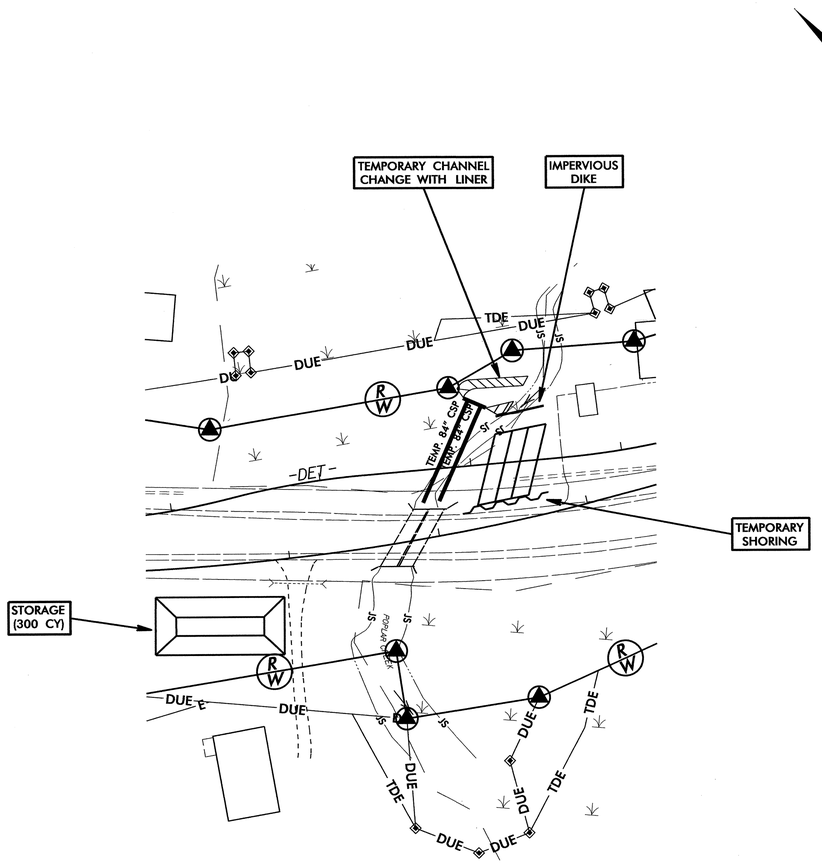
mcoulter
Coulter, Al PENN/247778

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-18/CONST 15
R/W SHEET NO.	
~~R.O. DIVISION ENGINEER~~	~~PROJECTS ENGINEER~~

CULVERT CONSTRUCTION SEQUENCE STA. 167+39 –L–
(SHEET 1 OF 2)

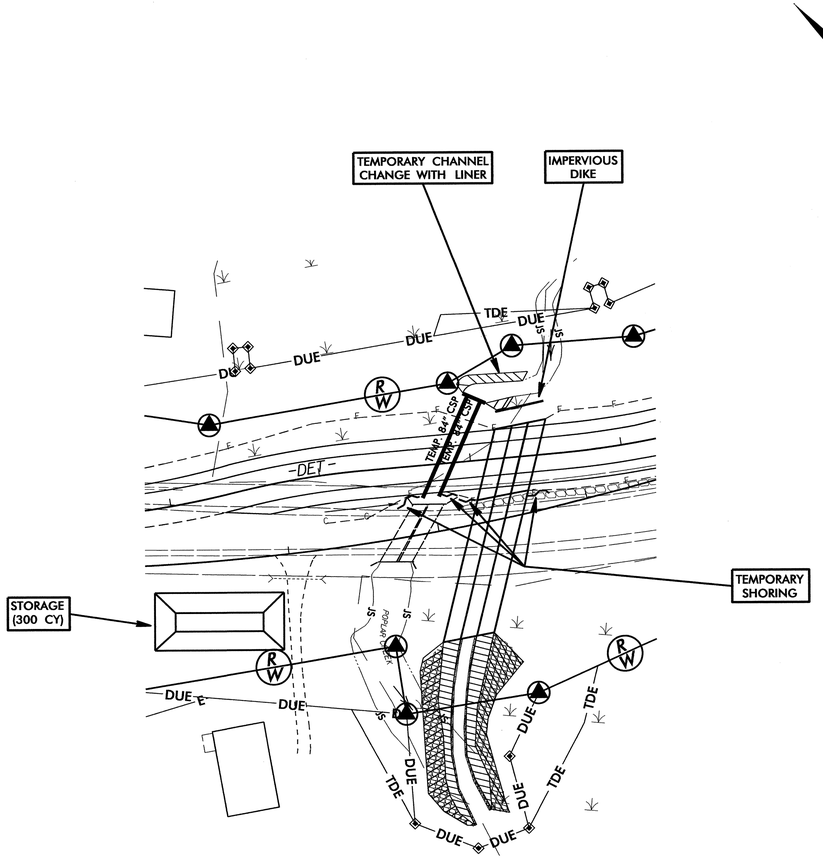
PHASE I

1. CONSTRUCT STILLING BASIN (300 CY).
2. CONSTRUCT TEMPORARY CHANNEL CHANGE WITH LINER (10–16 FT. VARIABLE BASE, 3 FT. DEEP, 3:1 SIDE SLOPES).
3. CONSTRUCT IMPERVIOUS DIKE AND INSTALL 2 @ 84" TEMPORARY CSP WITH TEMPORARY HEADWALLS, DIVERTING FLOW.
4. SHIFT TRAFFIC TOWARDS EASTBOUND LANE; INSTALL TEMPORARY SHORING TO SUPPORT EXISTING WESTBOUND LANES.
5. CONSTRUCT APPROX. 49 FT. OF UPSTREAM END OF PROPOSED CULVERT WITH A TEMPORARY HEADWALL.



PHASE II

6. INSTALL ADDITIONAL SHORING TO SUPPORT DETOUR; REMOVE SHORING IN THE PROPOSED CULVERT LOCATION.
7. CONSTRUCT DETOUR, SHIFT TRAFFIC TO THE DETOUR, AND REMOVE REMAINDER OF SHORING AT PROPOSED CULVERT.
8. CONSTRUCT REMAINDER OF PROPOSED CULVERT, DOWNSTREAM WINGWALLS, AND PORTION OF DOWNSTREAM CHANNEL IMPROVEMENTS.
9. REMOVE IMPERVIOUS DIKE AND TEMPORARY CHANNEL CHANGE; DIVERT FLOW THROUGH PROPOSED CULVERT.
10. COMPLETE DOWNSTREAM CHANNEL IMPROVEMENTS.

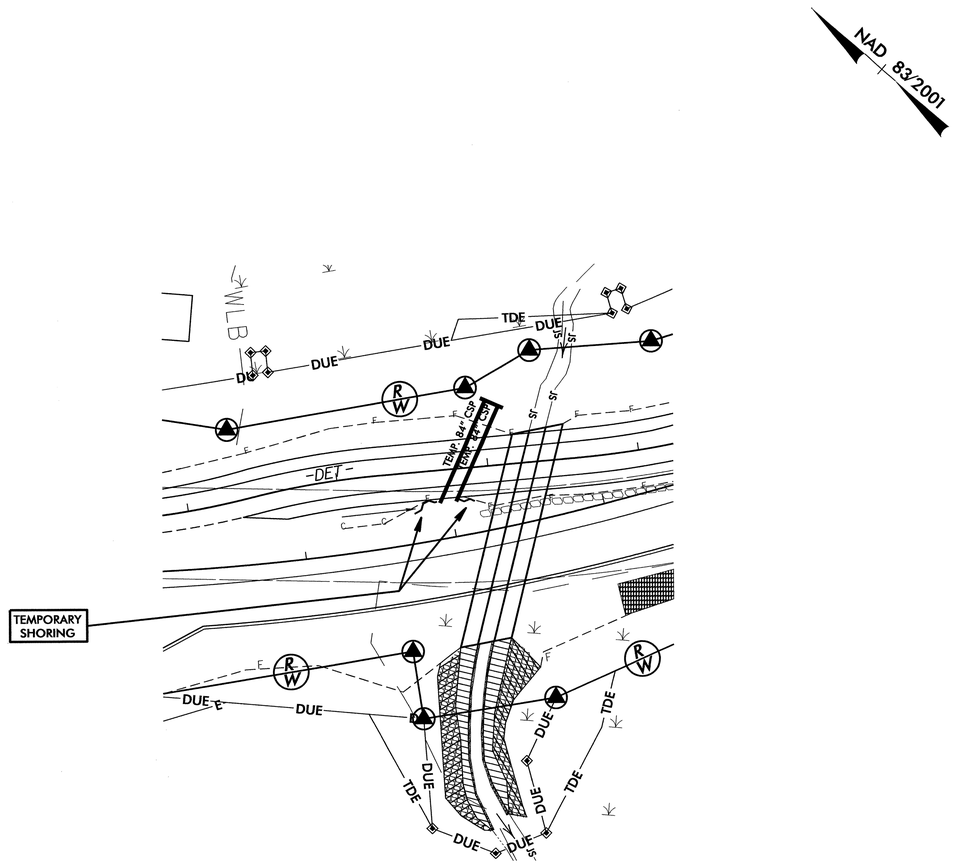


CULVERT CONSTRUCTION SEQUENCE STA. 167+39 –L– (SHEET 2 OF 2)

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-19/CONST15
R/W SHEET NO.	
~~HIGHWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~

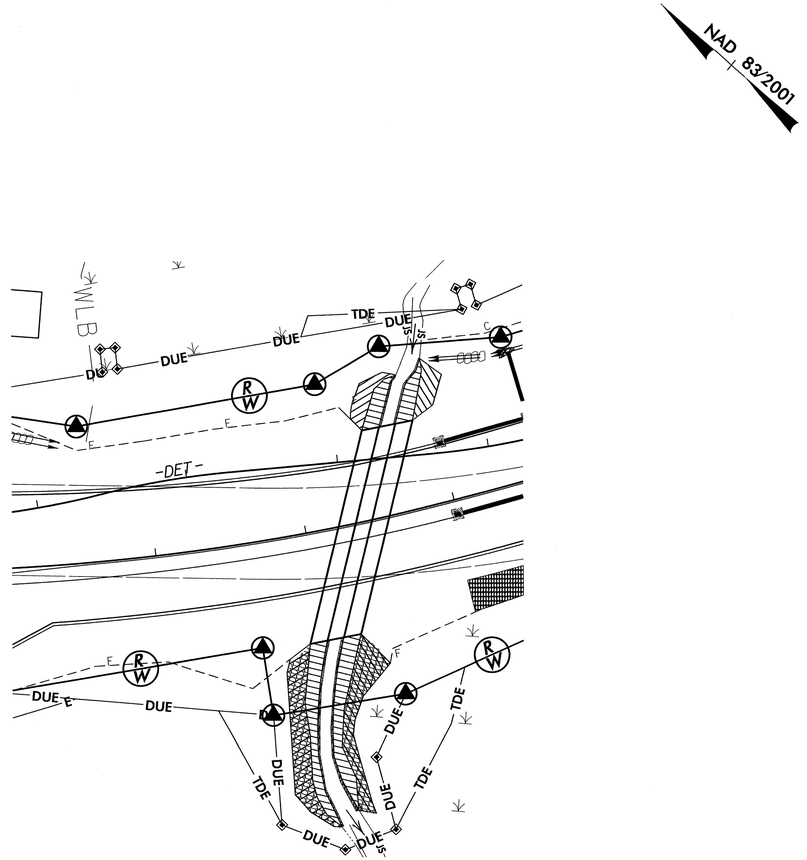
PHASE III

11. REMOVE EXISTING CULVERT AND STILLING BASIN.
12. CONSTRUCT PROPOSED EASTBOUND LANES AND SHIFT TRAFFIC.
13. REMOVE DETOUR AND AS MUCH OF TEMPORARY 84" CSP'S AS POSSIBLE; PLUG AND FILL WITH FLOWABLE FILL THE REMAINDER OF 84" CSP'S UNDER THE PROPOSED ROADWAY.



PHASE IV

14. CONSTRUCT UPSTREAM WINGWALLS FOR THE PROPOSED CULVERT AND UPSTREAM CHANNEL IMPROVEMENTS.
15. REMOVE REMAINDER OF THE TEMPORARY SHORING.
16. COMPLETE ROADWAY.

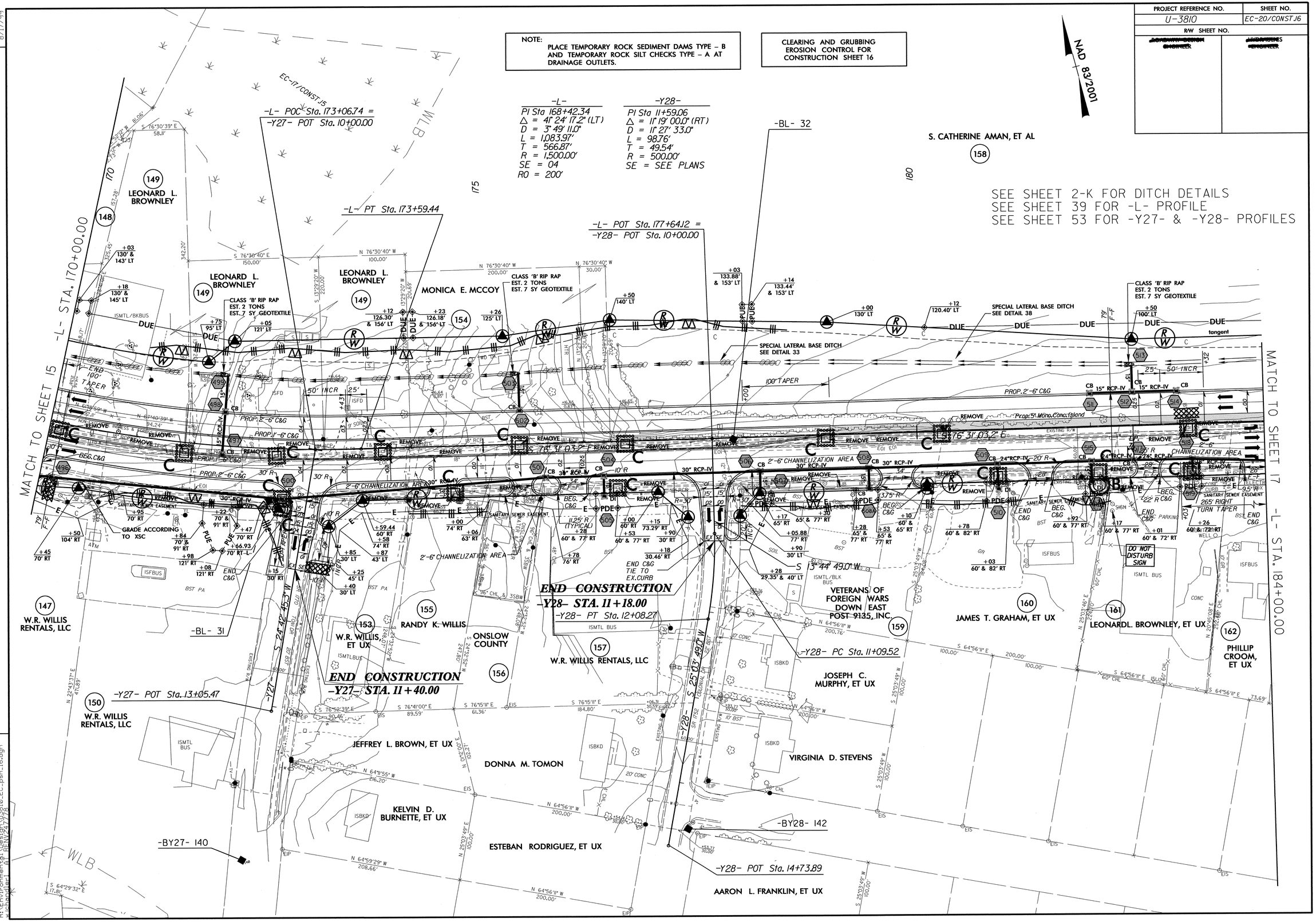


PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-20/CONST.16
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 16

NAD 83/2001



REVISIONS

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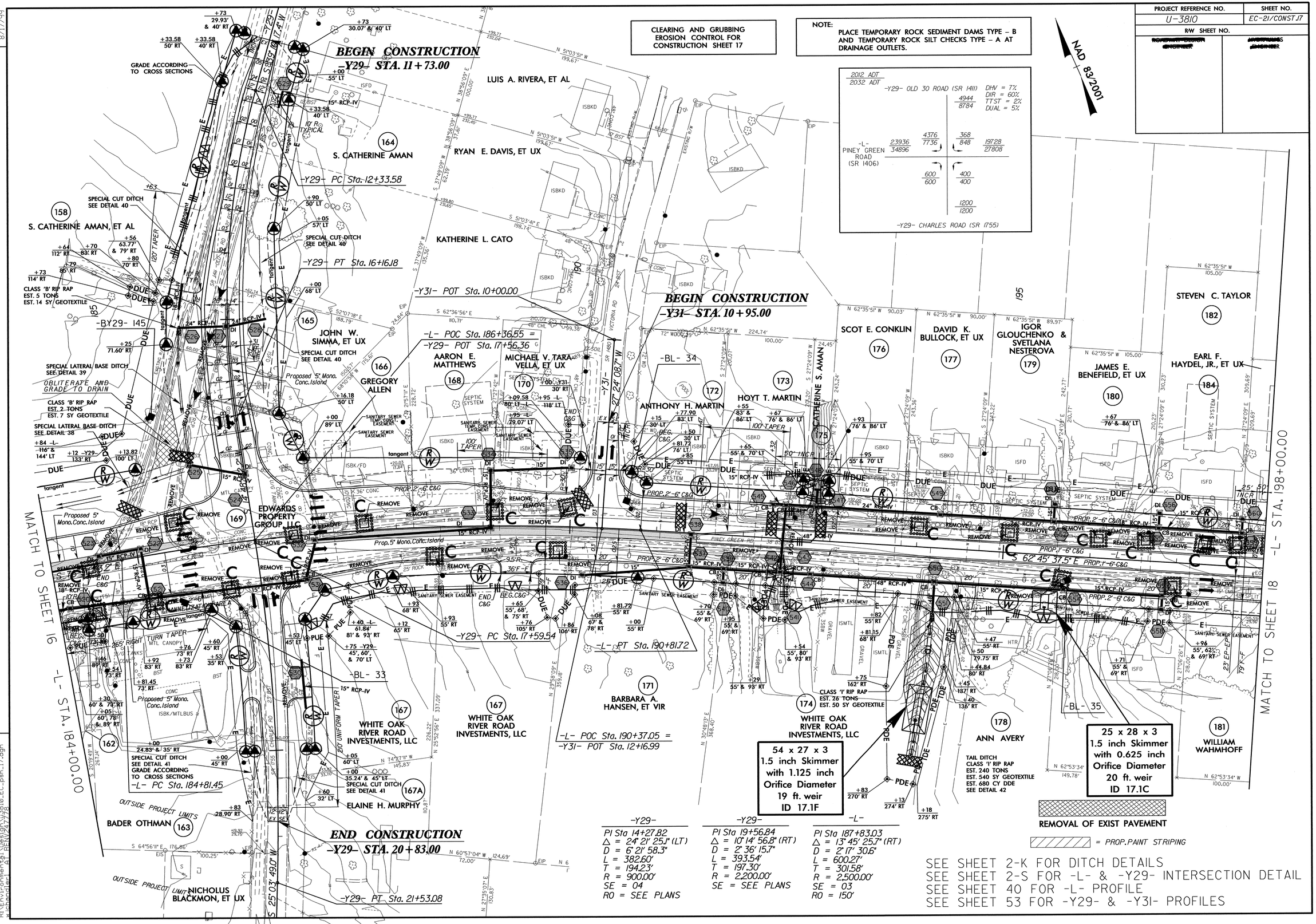
PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-21/CONST.17
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 17

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

NAD 83/2001



-Y29-	-Y29-	-L-
PI Sta 14+27.82	PI Sta 19+56.84	PI Sta 187+83.03
Δ = 24° 21' 25.1" (LT)	Δ = 10° 14' 56.8" (RT)	Δ = 13° 45' 25.7" (RT)
D = 6° 21' 58.3"	D = 2° 36' 15.7"	D = 2° 17' 30.6"
L = 382.60'	L = 393.54'	L = 600.27'
T = 194.23'	T = 197.30'	T = 301.58'
R = 900.00'	R = 2,200.00'	R = 2,500.00'
SE = 04	SE = SEE PLANS	SE = 03
RO = SEE PLANS		RO = 150'

SEE SHEET 2-K FOR DITCH DETAILS
SEE SHEET 2-S FOR -L- & -Y29- INTERSECTION DETAIL
SEE SHEET 40 FOR -L- PROFILE
SEE SHEET 53 FOR -Y29- & -Y31- PROFILES

REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-22/CONST J8
R/W SHEET NO.	
~~R/W WITH DESIGN ENGINEER~~	~~UNDERGROUND ENGINEER~~

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 18

NAD 83/2001

-BY32- 151

-Y32- POT Sta. 10+00.00

WILLIAM G. POWELL

LUTHER T. RYMER, ET UX

JAMES A. AYER, ET UX

HARVEY L. DAIL, ET UX

NORTH EAST PRIMITIVE BAPTIST CHURCH

BEGIN CONSTRUCTION
-Y32- STA. 12+73.00

-BL- 36

THOMAS PRIEST

KURT T. POSTREICH, ET UX

EARL F. HAYDEL, JR., ET UX

SAMUEL P. FIELDS, ET UX

WILLIAM WAHMHOFF

FRANK R. GILBERT, JR.

END CONSTRUCTION
-Y33- STA. 11+82.00
GRADE TO TIE

-L- PC Sta. 200+20.79

-L- POC Sta. 201+07.28 =
-Y32- POT Sta. 14+61.86

-Y33- POT Sta. 13+44.42

-BY33- 154

-L-
PI Sta 205+18.96
Δ = 56° 21' 11.7" (RT)
D = 6° 09' 39.0"
L = 914.70'
T = 498.17'
R = 930.00'
SE = 04
RO = 200'

-BL- 37
NCDOT GPS U3810-3

-L- POC Sta. 204+14.97 =
-Y33- POT Sta. 10+00.00

-Y33- STA. 11+10.00
END PAVEMENT

PAUL T. MARCUM, ET UX

-L- POC Sta. 208+50.14 =
-Y34- POT Sta. 14+62.33

-L- PT Sta. 209+35.49

CLARA W. WILLIAMS

STEVE HEMBY, III, ET UX

LEONARD W. MORTON

GERALDINE K. TKACH

SANCTUARY OF FAITH CHURCH

BEGIN CONSTRUCTION
-Y34- STA. 13+20.00

-BY34- 157

PATRICK F. POWELL

FRED M. HECKLE

TIMOTHY O. CARR, ET UX

-Y34- S 83°50'49.6" W

-L- STA. 212+00.00

MATCH TO SHEET 17 -L- STA. 198+00.00

MATCH TO SHEET 19 -L- STA. 212+00.00

2012 ADT
2032 ADT -Y34- WALNUT CREEK ROAD (SR 1750)

-L-
PINEY GREEN ROAD (SR 1406)

19728 / 27808	1400 / 1400	1500 / 1500	19828 / 27908

SEE SHEET 2-K FOR DITCH DETAIL
SEE SHEET 2-S FOR -L- & -Y34- INTERSECTION DETAIL
SEE SHEET 40 FOR -L- PROFILE
SEE SHEET 53 FOR -Y32- & -Y33- PROFILES
SEE SHEET 54 FOR -Y34- PROFILE

REVISIONS
8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-23/CONST.19
R/W SHEET NO.	
~~ENGINEER~~	~~HYDRAULICS ENGINEER~~

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

CLEARING AND GRUBBING
EROSION CONTROL FOR CONSTRUCTION SHEET 19

NAD 83/2001

MATCH TO SHEET 31A

54 x 26 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
18 ft. weir
ID 19.2C

26 x 16 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
8 ft. weir
ID 19.1C

-Y35- POT Sta. 10+00.00

-BY35- 159

-Y35- STA. 12+90.00

BEGIN CONSTRUCTION

GRADE DRY POND TO NATURAL GROUND SEE XSC

-BL- 39

NCDOT GPS U3810-2

-BL- 38

-L- POT Sta. 216+81.94 = -Y35- POT Sta. 14+07.31

-L- PC Sta. 218+82.74

-L- PI Sta. 223+26.73
Δ = 32° 58' 36.4" (RT)
D = 3°49' 11.0"
L = 863.33'
T = 443.99'
R = 1,500.00'
SE = 04
RO = 200'

-L- STA. 212+00.00

-L- STA. 226+00.00

MATCH TO SHEET 18

MATCH TO SHEET 20

196 TIMOTHY O. CARR, ET UX

199 TIMOTHY O. CARR, ET UX

201 WILLIAM P. REED

203 TIMOTHY O. CARR, ET UX

206 TERRY J. LYONS

209 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

197A LEONARD W. MORTON

198 TIMOTHY O. CARR, ET UX

198 TIMOTHY O. CARR, ET UX

MICHAEL E. SMEN 202

204 NANNIE M. GERRITY

205 LINDA G. AMES, ET VIR

207 JEFFREY T. SANTIAGO

TIMOTHY O. CARR, ET UX

208 TOMMY MORTON, JR., ET UX

TOMMY MORTON, JR., ET UX

LATERAL BASE DITCH
CLASS 'B' RIP RAP
EST. 731 TONS
EST. 2337 SY GEOTEXTILE
EST. 7570 CY DDE
SEE DETAIL 44

EXIST. 18" OUTLET TO CONCRETE FLUME ELEV. 10.84

BLIND JB APPROX. ATE

SEE SHEET 2-K FOR DITCH DETAIL
SEE SHEET 41 FOR -L- PROFILE
SEE SHEET 54 FOR -Y35- PROFILE

REVISIONS

8.17.99

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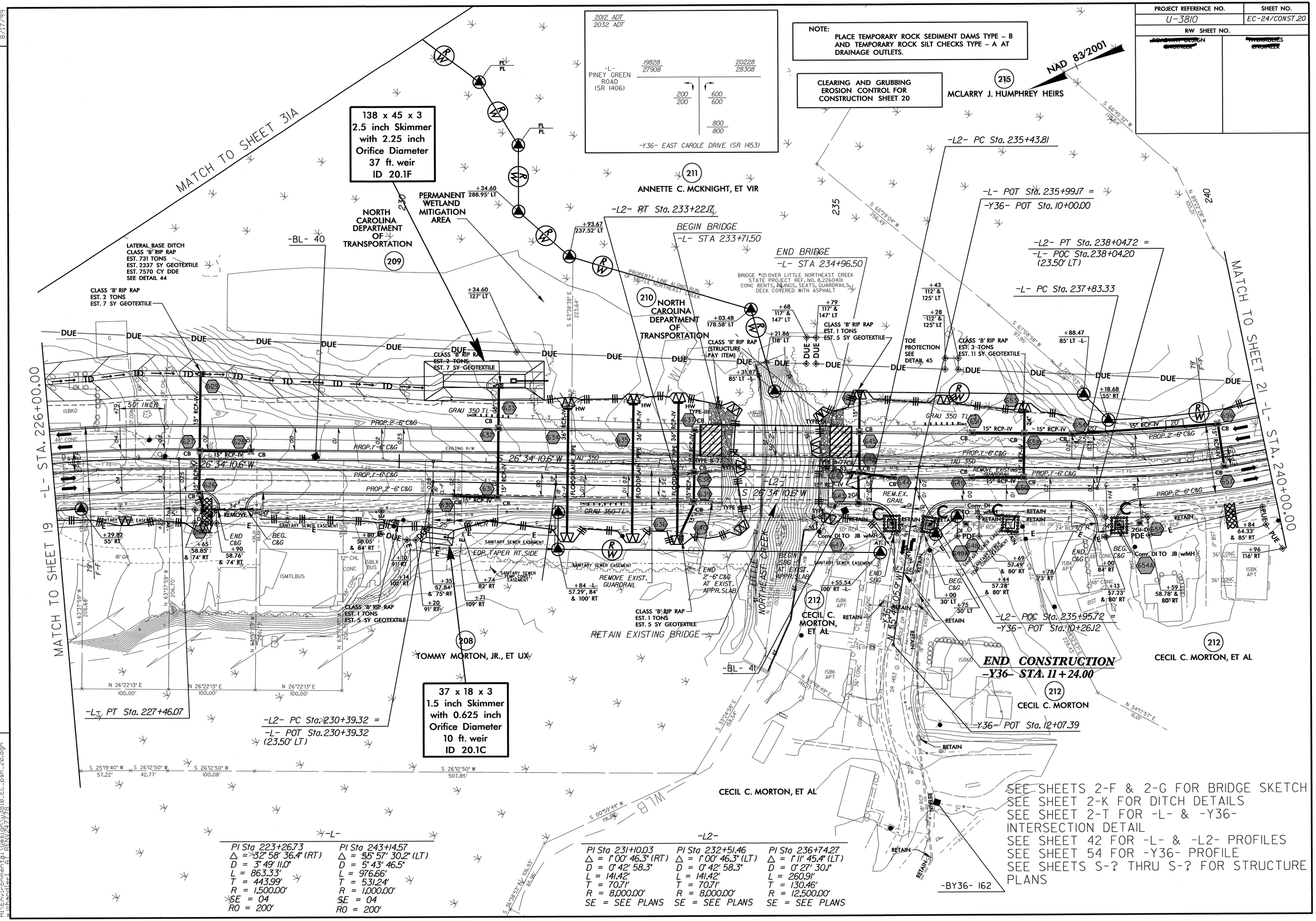
mchandler AT FRNV24778

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-24/CONST.20
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 20



SEE SHEETS 2-F & 2-G FOR BRIDGE SKETCH
SEE SHEET 2-K FOR DITCH DETAILS
SEE SHEET 2-T FOR -L- & -Y36- INTERSECTION DETAIL
SEE SHEET 42 FOR -L- & -L2- PROFILES
SEE SHEET 54 FOR -Y36- PROFILE
SEE SHEETS S-? THRU S-? FOR STRUCTURE PLANS

-L-

PI Sta 223+26.73	PI Sta 243+14.57
Δ = 32° 58' 36.4" (RT)	Δ = 55° 57' 30.2" (LT)
D = 3° 49' 11.0"	D = 5° 43' 46.5"
L = 863.33'	L = 976.66'
T = 443.99'	T = 531.24'
R = 1,500.00'	R = 1,000.00'
SE = 04	SE = 04
RO = 200'	RO = 200'

-L2-

PI Sta 231+10.03	PI Sta 232+51.46	PI Sta 236+74.27
Δ = 1° 00' 46.3" (RT)	Δ = 1° 00' 46.3" (LT)	Δ = 1° 11' 45.4" (LT)
D = 0° 42' 58.3"	D = 0° 42' 58.3"	D = 0° 27' 30.1"
L = 141.42'	L = 141.42'	L = 260.91'
T = 70.71'	T = 70.71'	T = 130.46'
R = 8,000.00'	R = 8,000.00'	R = 12,500.00'
SE = SEE PLANS	SE = SEE PLANS	SE = SEE PLANS

REVISIONS

8/17/99

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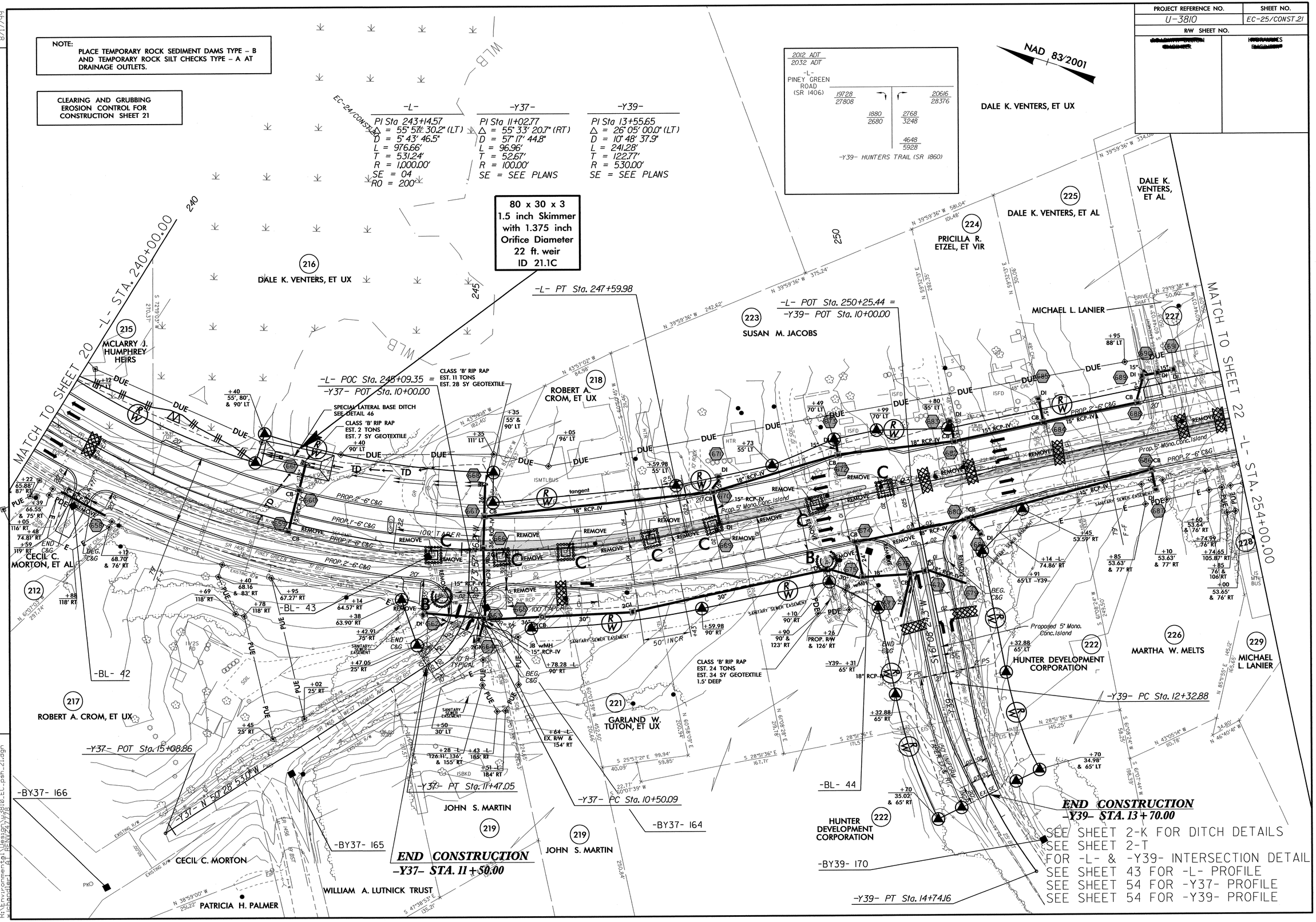
PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-25/CONST.21
R/W SHEET NO.	
[redacted]	[redacted]

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 21

-L-	-Y37-	-Y39-
PI Sta 243+14.57	PI Sta 11+02.77	PI Sta 13+55.65
Δ = 55° 57' 30.2" (LT)	Δ = 55° 33' 20.7" (RT)	Δ = 26° 05' 00.0" (LT)
D = 5° 43' 46.5"	D = 57° 17' 44.8"	D = 10° 48' 37.9"
L = 976.66'	L = 96.96'	L = 241.28'
T = 531.24'	T = 52.67'	T = 122.77'
R = 1,000.00'	R = 100.00'	R = 530.00'
SE = 04	SE = SEE PLANS	SE = SEE PLANS
RO = 200'		

80 x 30 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
22 ft. weir
ID 21.1C



REVISIONS

8/17/99

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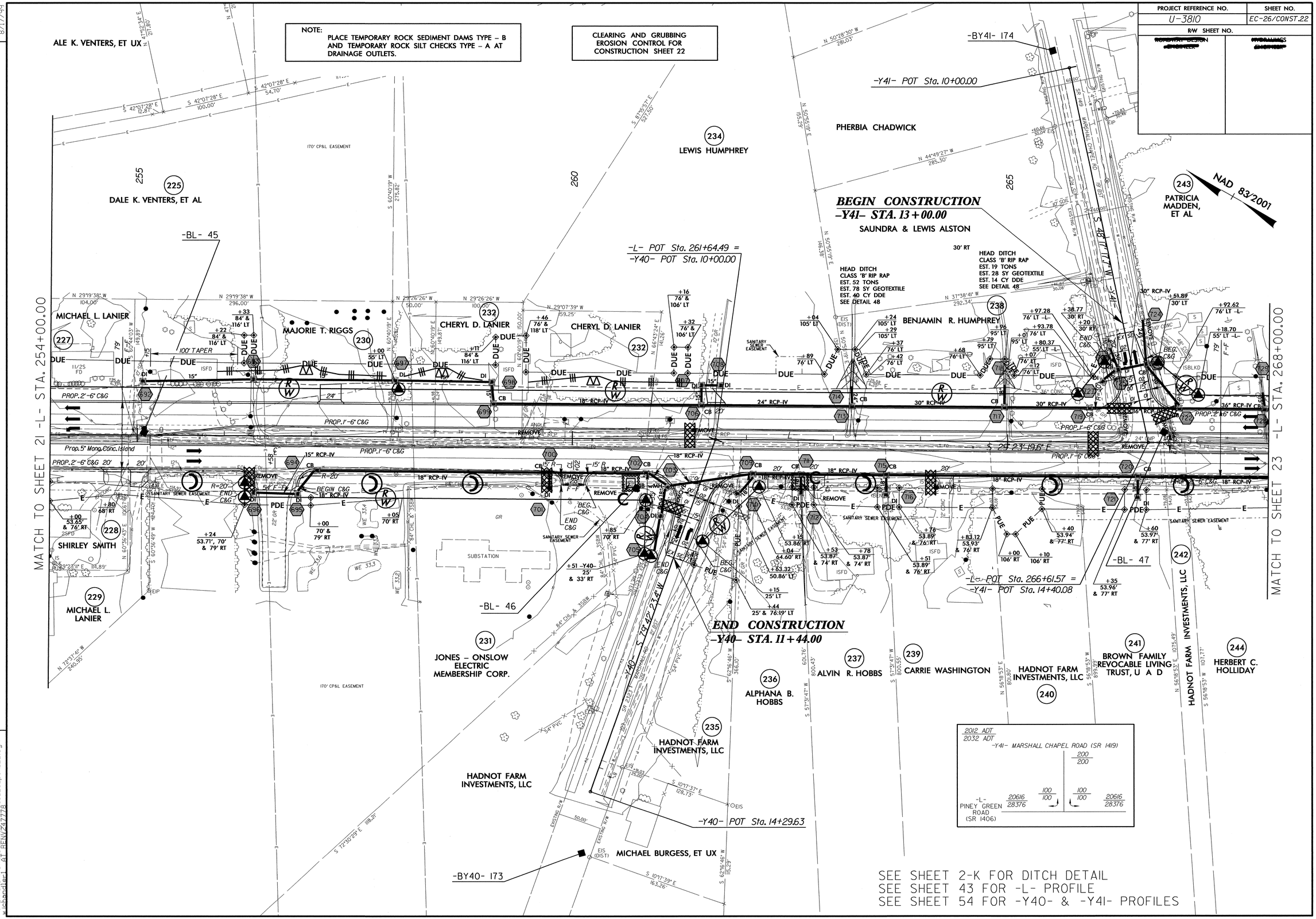
PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-26/CONST.22
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 22



SEE SHEET 2-K FOR DITCH DETAIL
SEE SHEET 43 FOR -L- PROFILE
SEE SHEET 54 FOR -Y40- & -Y41- PROFILES

REVISIONS

8/17/99

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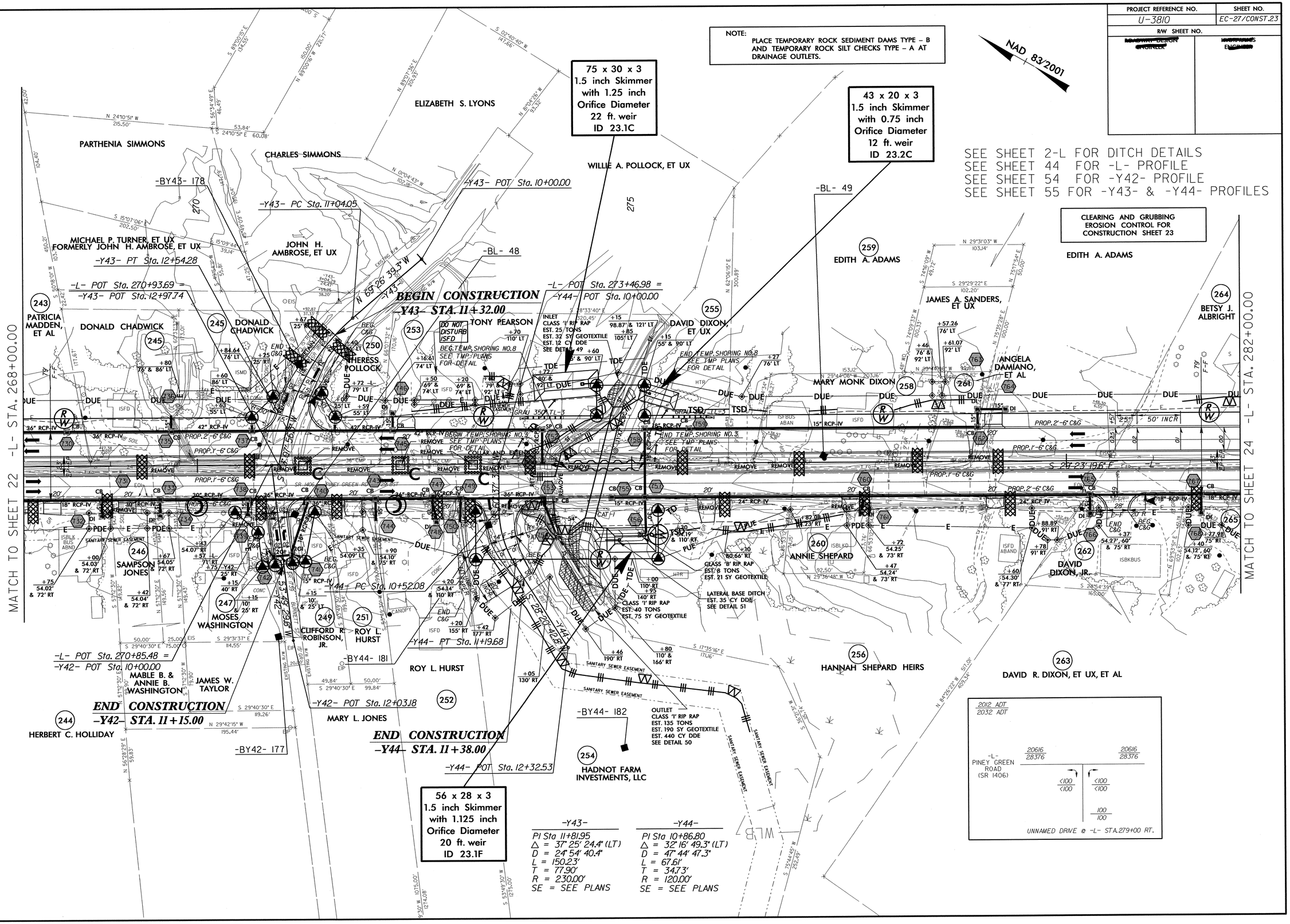
PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-27/CONST.23
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

NAD 83/2001

SEE SHEET 2-L FOR DITCH DETAILS
SEE SHEET 44 FOR -L- PROFILE
SEE SHEET 54 FOR -Y42- PROFILE
SEE SHEET 55 FOR -Y43- & -Y44- PROFILES

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 23



REVISIONS

8/17/99

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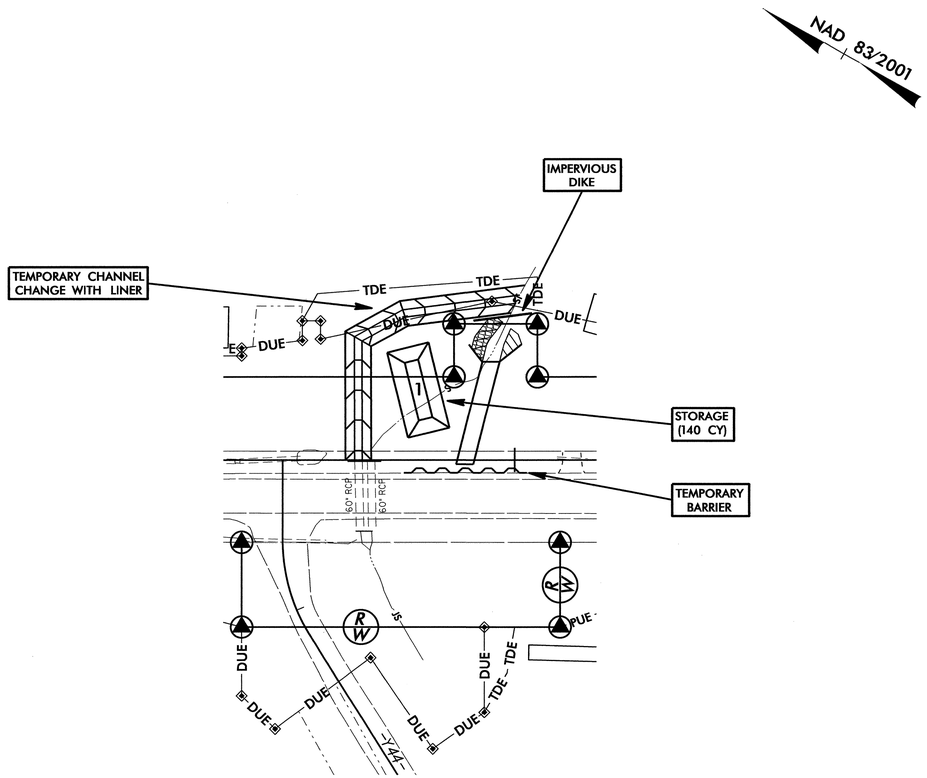
CULVERT CONSTRUCTION SEQUENCE STA. 274+68 –L– (SHEET 1 OF 2)

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-28/CONST.23
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~

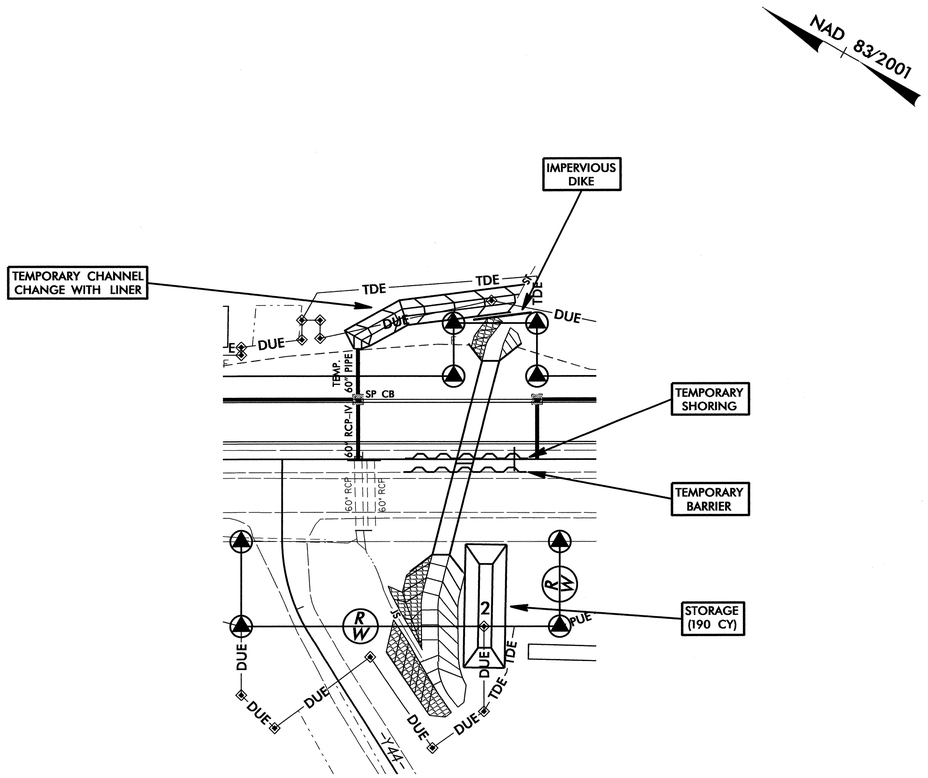
PHASE I

1. CONSTRUCT TEMPORARY CHANNEL CHANGE WITH LINER (5 FT. BASE, 3 FT. DEPTH, 2:1 SIDE SLOPES) AND IMPERVIOUS DIKE, DIVERTING FLOW THROUGH NORTHERNMOST EXISTING 60" RCP.
2. CONSTRUCT STILLING BASIN 1 (140 CY).
3. INSTALL TEMPORARY BARRIER ON SHOULDER.
4. CONSTRUCT 70 FT. OF THE UPSTREAM END OF THE PROPOSED CULVERT, AND AS MUCH OF THE INLET CHANNEL IMPROVEMENTS AS POSSIBLE.



PHASE II

5. INSTALL PROPOSED CB AND 60" RCP.
6. REMOVE PORTION OF TEMPORARY CHANNEL CHANGE AND INSTALL TEMPORARY 60" PIPE.
7. INSTALL TEMPORARY SHORING TO SUPPORT PROPOSED WESTBOUND LANES.
8. REMOVE STILLING BASIN 1, CONSTRUCT WESTBOUND LANES, AND SHIFT TRAFFIC.
9. CONSTRUCT STILLING BASIN 2 (190 CY).
10. CONSTRUCT REMAINDER OF THE PROPOSED CULVERT AND DOWNSTREAM CHANNEL IMPROVEMENTS.



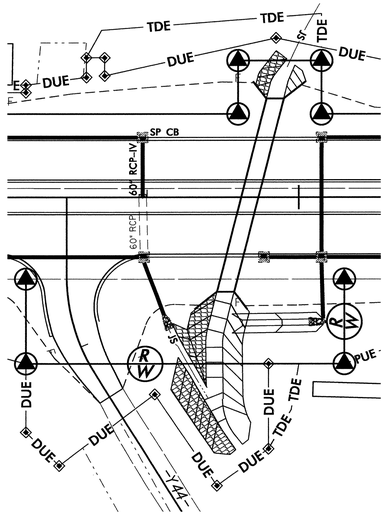
PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-29/CONST.23
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~DRAINAGE ENGINEER~~

CULVERT CONSTRUCTION SEQUENCE STA. 274+68 –L– (SHEET 2 OF 2)

PHASE III

11. REMOVE IMPERVIOUS DIKE, TEMPORARY CHANNEL CHANGE, AND TEMPORARY 60" PIPE, ALLOWING FLOW THROUGH THE COMPLETED CULVERT.
12. REMOVE SOUTHERNMOST EXISTING 60" RCP.
13. REMOVE TEMPORARY BARRIER AND TEMPORARY SHORING.
14. CONSTRUCT ANY REMAINING UPSTREAM/DOWNSTREAM CHANNEL IMPROVEMENTS.
15. REMOVE STILLING BASIN 2.
16. CONSTRUCT EASTBOUND LANES; COMPLETE ROADWAY.

NAD 83/2001



PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-30/CONST.24
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/2001

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 24

SEE SHEET 2-L FOR DITCH DETAIL
SEE SHEET 44 FOR -L- PROFILE
SEE SHEET 55 FOR -Y45- PROFILE

REVISIONS
8/17/99

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MATCH TO SHEET 23

MATCH TO SHEET 25 -L- STA. 296+00.00

-L- STA. 282+00.00

-BL- 50

-BL- 51

USE ROCK PLATING AT STATION 284+75± -L- TO STATION 286+75± -L- (LEFT) AND EXTEND ROCK PLATING LIMITS TO 2.5d (H:V) SLOPE. SEE ROCK PLATING DETAIL SHEET 2-AA.

-L- POC Sta. 287+39.40 = -Y45- POT Sta. 10+00.00

-L- PT Sta. 289+98.27

-L- PC Sta. 282+81.50

-Y45- PC Sta. 10+50.58

-Y45- PT Sta. 10+87.09

-Y45- POT Sta. 11+59.22

END CONSTRUCTION -Y45- STA. 11+10.00

-BY45- 184

-BY46- 186

263 DAVID R. DIXON, ET UX, ET AL

264 BETSY J. ALBRIGHT

265 EDITH A. ADAMS

266 TORRIE JONES

267 VANIE PARKER

267A BEATRICE J. MORSE

269 CHAD EVERETT FONVILLE

270 MARY FONVILLE

271 EDITH ADAMS, ET AL

272 EDITH A. ADAMS

273 AMBROSE CEMETERY

274 ROGER MOORE, ET UX

275 ROSA FONVILLE

276

277 JOHN MOLLETT

278

WILLIAM L. AMBROSE, ET UX

TAIL DITCH EST. 65 CY DDE SEE DETAIL 52

CLASS 'I' RIP RAP EST. 20 TONS EST. 39 SY GEOTEXTILE

-L-
PI Sta 286+41.60
Δ = 13° 41' 21.6" (RT)
D = 1° 54' 35.5"
L = 716.77'
T = 360.10'
R = 3,000.00'
SE = 03
RO = 150'

-Y45-
PI Sta 10+69.16
Δ = 26° 08' 50.0" (LT)
D = 71° 37' 11.0"
L = 36.51'
T = 18.58'
R = 80.00'
SE = SEE PLANS

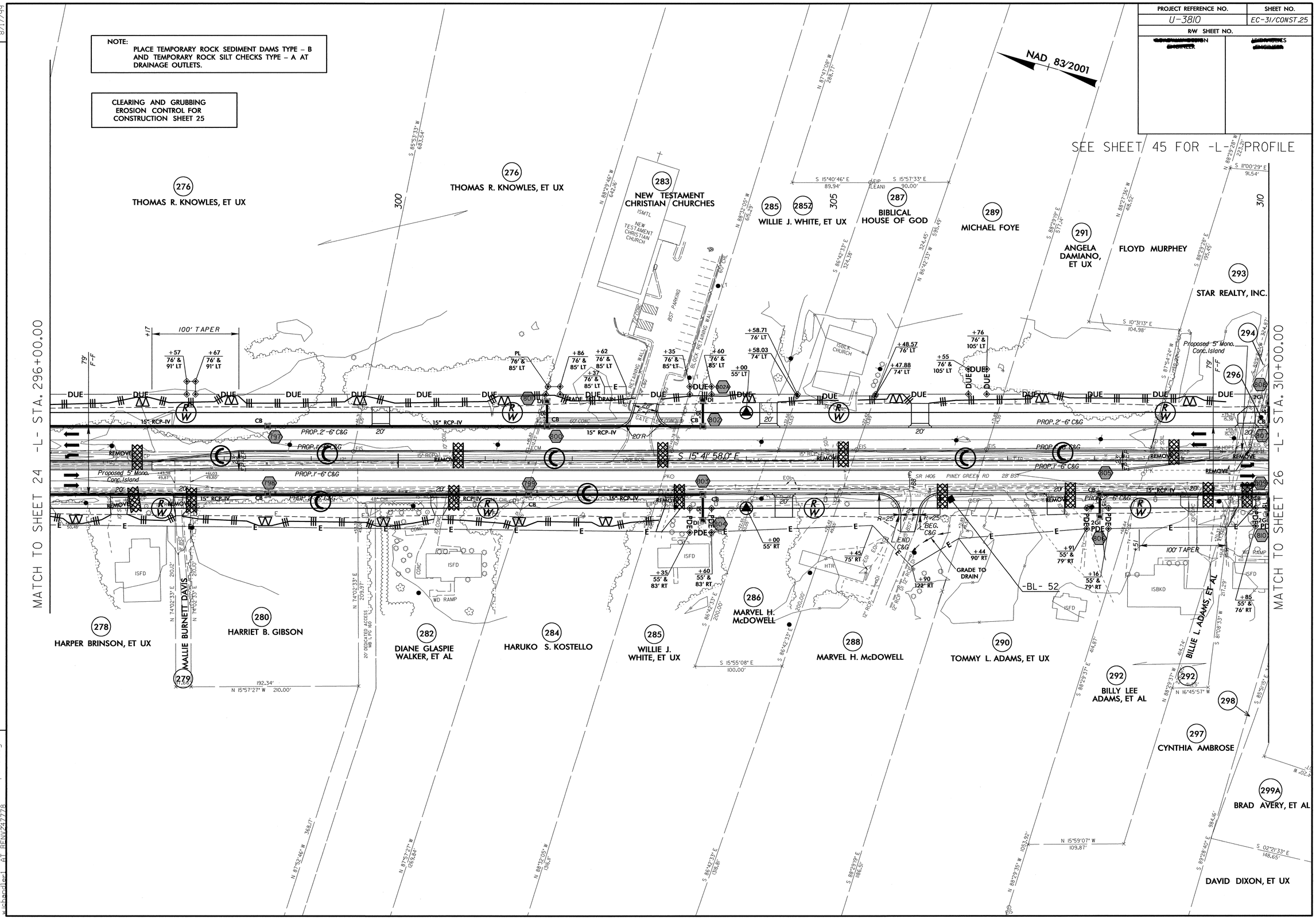
PROPERTY LINE ALONG RUN OF LAMOTTS CREEK

DO NOT DISTURB MOBILE HOME

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-31/CONST.25
R/W SHEET NO.	
[redacted]	[redacted]

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 25



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PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-32/CONST.26
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~

8/17/99

REVISIONS

THOMAS L. LITTLETON

BEGIN CONSTRUCTION
-Y48- STA. 19+20.00

-Y48-
PI Sta 19+24.09
Δ = 84° 38' 19.9" (RT)
D = 17° 54' 17.8"
L = 472.71'
T = 291.38'
R = 320.00'
SE = SEE PLANS

-L-
PI Sta 324+44.05
Δ = 15° 07' 57.2" (RT)
D = 1° 54' 35.5"
L = 792.34'
T = 398.49'
R = 3,000.00'
SE = 03
RO = 150'

2012 ADT
2032 ADT

-Y48- ROCKY RUN ROAD (SR 1413) — 7940 / 10340

-L- PINEY GREEN ROAD (SR 1406) — 3632 / 5152 — 4308 / 5188 — 21292 / 28412 — 20616 / 28376

NAD 83/2001

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 26

RONALD L. SANDERS

-BY48- 187

-BY48- 188

S 10° 37' 07.8" E -Y48-

-Y48- PC Sta. 16+32.72

-Y48- PT Sta. 21+05.43

-L- POT Sta. 313+64.00 =
-Y47- POT Sta. 10+00.00

-L- POT Sta. 315+91.47 =
-Y48- POT Sta. 23+43.20

-Y47- POT Sta. 12+06.53

-BL- 53

-BL- 54

-L- PC Sta. 320+45.56

CARY ONEAL WHITE

309 THOMAS LITTLETON EASTSIDE AUTO SALVAGE

310 W. RANDOLPH THOMAS

314 ROBERT J. JONES HEIRS

GEORGE WASHINGTON LIVING HEIRS

294 STAR REALTY, INC.

293

296 PATRICIA MILLS

300 SYLVESTER HOWARD, ET UX

302 WILLIAMS FAMILY HEIRS LLC

302 MARIE S. WILLIAMS

317 HORACE L. HAMS

298

297

301A PHILLIP DEAVER HEIRS

301

299A

303 SHIRLEY M. KEITH & MELVIN L. FELTON, JR

304

299 MILDERD AVERY

MOSE L. HAIRSTON, ET UX

298

DOROTHY L. WRIGHT

306 CARY O'NEAL WHITE

307 ANDREW G. ROBERTS, ET UX

307 ANDREW G. ROBERTS, ET UX

311 PAULINE RAY BURTON

312 TRUSTEES OF PROVIDENCE HOLINESS CHURCH

313 ALFRED SHARPLESS, ET UX

315 HORACE L. HAMS

316 ALICE H. KOONCE

315 HORACE L. HAMS

END SW +50
TIE TO EX.SW

END C&G
+20

BEGIN C&G +15

BEG. SW +02

Proposed 5° Mono. Conc. Island

Prop. 5° Mono. Conc. Island

END PAVEMENT
-Y47- Sta. 11+00.00

END CONSTRUCTION
-Y47- STA. 11+50.00
GRADE TO TIE

-BY47- 208

-BY47- 209

MATCH TO SHEET 25 -L- STA. 310+00.00

MATCH TO SHEET 27 -L- STA. 324+00.00

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PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-33/CONST.27
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/2001

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 27

SEE SHEET 2-L FOR DITCH DETAILS
SEE SHEET 46 FOR -L- PROFILE
SEE SHEETS C-? THRU C-? FOR CULVERT PLANS

47 x 23 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
15 ft. weir
ID 27.1C

44 x 22 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
14 ft. weir
ID 27.4C

58 x 20 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
12 ft. weir
ID 27.2C

54 x 27 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
19 ft. weir
ID 27.3C

-L-
PI Sta 324+44.05
△ = 15°07' 57.2" (RT)
D = 1° 54' 35.5"
L = 792.34'
T = 398.49'
R = 3,000.00'
SE = 03
RO = 150'

-L- PT Sta. 328+37.90

MATCH TO SHEET 26 -L- STA. 324+00.00

MATCH TO SHEET 28 -L- STA. 338+00.00

GEORGE WASHINGTON LIVING HEIRS

MARYLAND K. WASHINGTON & MITCHELL C. WASHINGTON

FAYE A. REDD

WASHINGTON FAMILY CEMETERY

PINEY GREEN DEVELOPERS, LLC

GEORGE WASHINGTON LIVING HEIRS

HORACE L. HAMS

GARY HAMS

CARRIE TAYLOR, ET AL

CARRIE TAYLOR, ET VIR

BOBBY R. MORTON, ET UX

JOHN T. SMITH, ET UX

ROBERT A. CROM, ET UX

WPPT INC.

PINEY GREEN VOLUNTEER FIRE DEPARTMENT, INC.

ONSLOW COUNTY

JACKSONVILLE CITY LIMITS

-BL- 55

-BL- 56

-BY49- 191

REVISIONS

8/17/99

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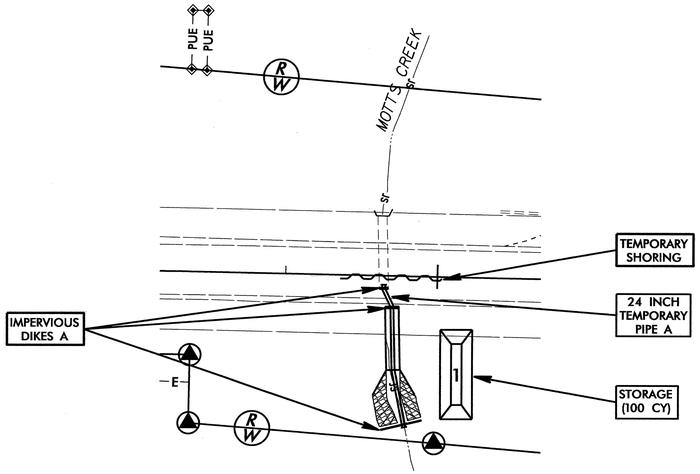
PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-34/CONST.27
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~PROJECTING ENGINEER~~

CULVERT CONSTRUCTION SEQUENCE STA. 329+70 –L–
(SHEET 1 OF 2)

PHASE I

1. CONSTRUCT STILLING BASIN 1 (100 CY).
2. SHIFT TRAFFIC TOWARD WESTBOUND LANE AND INSTALL TEMPORARY SHORING TO SUPPORT WESTBOUND LANE.
3. REMOVE 30 FT. OF EXISTING 72" RCP.
4. CONSTRUCT IMPERVIOUS DIKES A AND INSTALL 24" TEMPORARY PIPE A, DIVERTING FLOW.
5. CONSTRUCT 42 FT. OF THE PROPOSED CULVERT, AND OUTLET CHANNEL IMPROVEMENTS.

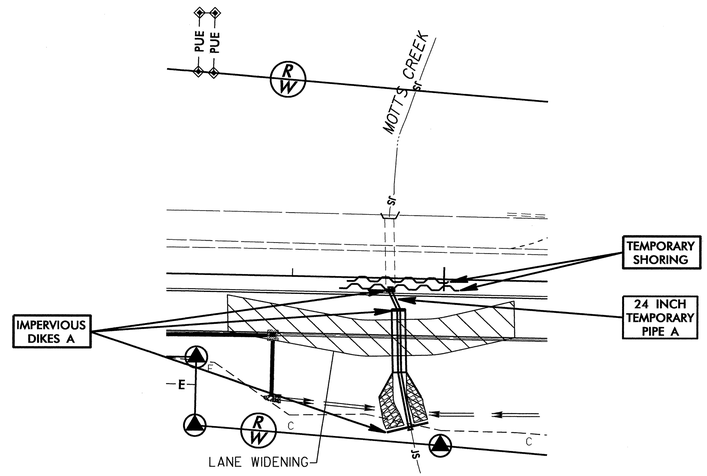
NAD 83/2001



PHASE II

6. REMOVE STILLING BASIN 1.
7. CONSTRUCT TEMPORARY SHORING FOR EASTBOUND LANES CONSTRUCTION.
8. CONSTRUCT PORTION OF EASTBOUND LANES AND TEMPORARY WIDENING.
9. SHIFT TRAFFIC TO EASTBOUND LANES AND TEMPORARY WIDENING.
10. REMOVE TEMPORARY SHORING FOR WESTBOUND LANES.

NAD 83/2001



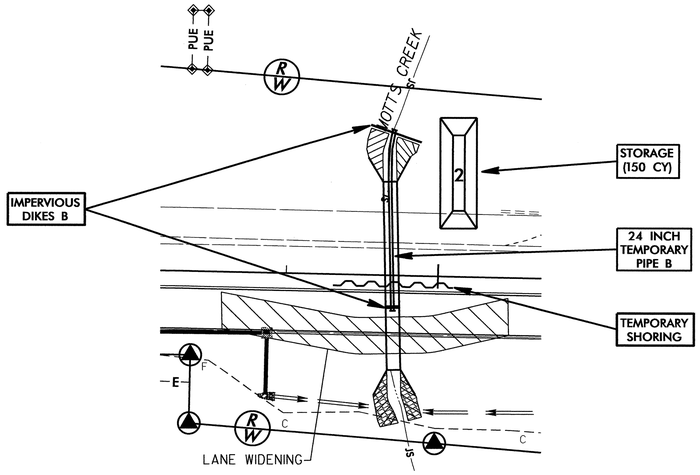
CULVERT CONSTRUCTION SEQUENCE STA. 329+70 –L–
(SHEET 2 OF 2)

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-35/CONST.27
RW SHEET NO.	
~~DIVISION ENGINEER~~	~~HYDRAULICS ENGINEER~~

PHASE III

11. CONSTRUCT STILLING BASIN 2 (150 CY).
12. REMOVE IMPERVIOUS DIKES A, 24" TEMPORARY PIPE A, AND REMAINDER OF EXISTING 72" RCP.
13. CONSTRUCT IMPERVIOUS DIKES B AND INSTALL 24" TEMPORARY PIPE B, DIVERTING FLOW.
14. CONSTRUCT REMAINDER OF THE PROPOSED CULVERT, AND INLET CHANNEL IMPROVEMENTS.
15. REMOVE IMPERVIOUS DIKES B AND 24" TEMPORARY PIPE B, ALLOWING FLOW THROUGH THE COMPLETED CULVERT.

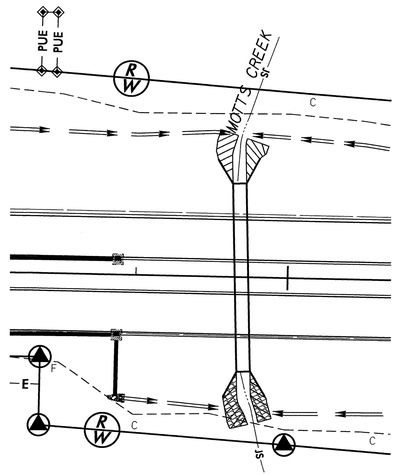
NAD 83/2001



PHASE IV

16. REMOVE STILLING BASIN 2.
17. REMOVE REMAINING TEMPORARY SHORING.
18. REMOVE TEMPORARY WIDENING, AND COMPLETE ROADWAY.

NAD 83/2001



PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-36/CONST.28
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/2001

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 28

REVISIONS 8/17/99

-Y50- POT Sta. 10+00.00

UNITED STATES OF AMERICA "CAMP LEJEUNE RAILROAD" (332)

-BY50- 192

-BY50- 193

(328) WPPT INC.

(333) PINEY GREEN DEVELOPERS, LLC

(336A) CARL SUTTON

(336) MATTHEW HAMILTON

(336) MATTHEW HAMILTON

ENON CHAPEL BAPTIST CHURCH (340)

ENON CHAPEL BAPTIST CHURCH

JACKSONVILLE CITY LIMITS

EXISTING RR R/W

-L- POT Sta. 340+01.87
-Y49- POT Sta. 10+00.00

-L- POT Sta. 342+28.18 =
-Y50- POT Sta. 15+58.35

-L- POT Sta. 349+57.33 =
-Y51- POT Sta. 10+00.00

-BL- 58

CLASS 'B' RIP RAP EST. 2 TONS EST. 7 SY GEOTEXTILE

CLASS 'B' RIP RAP EST. 1 TONS EST. 5 SY GEOTEXTILE

SPECIAL LATERAL BASE DITCH SEE DETAIL 58

PROP. GATE ARM

150' LEFT TURN TAPER

325' TAPER RIGHT

PROP. 2'-6" C&G

PROP. 5' Mono. Conc. Island

Proposed 5' Mono. Conc. Island

ISF BUS

ISBK/BLK CHURCH

ISBKBUS

ISMTL BUS

-BL- 57

TRENCHLESS INSTALLATION 24" WELDED STEEL

-Y49- PC Sta. 10+51.86

-Y49- PT Sta. 11+12.24

-Y50- PT Sta. 11+12.24

END CONSTRUCTION
-Y49- STA. 11+30.00

END CONSTRUCTION
-Y51- STA. 11+30.00

PINEY GREEN VOLUNTEER FIRE DEPARTMENT, INC. (329)

MICHIKO M. HENDERSON (331)

TONY CHOW (330)

POLLARD ENTERPRISES INC. (334)

H & M FARMS, LLC (337)

JOHN D. KOST-ELLO, ET UX (338)

NAVY FEDERAL CREDIT UNION (339)

MACIE W. GREGORY (335)

MARY ANN R. DAMIANO

COASTAL CAROLINA COMMUNITY COLLEGE

UNITED STATES OF AMERICA "CAMP LEJEUNE RAILROAD" (332)

-Y49-
PI Sta 10+83.00
△ = 34° 35' 30.7" (RT)
D = 57° 17' 44.8"
L = 60.37'
T = 31.14'
R = 100.00'
SE = SEE PLANS

SEE SHEET 2-M FOR DITCH DETAIL
SEE SHEET 2-U FOR -L- & -Y49-/-Y50-/-Y51- INTERSECTION DETAIL
SEE SHEET 46 FOR -L- PROFILE
SEE SHEET 55 FOR -Y49- & -Y51- PROFILES
SEE SHEET 57 FOR -Y50- PROFILE

MATCH TO SHEET 27 -L- STA. 338+00.00

MATCH TO SHEET 29 -L- STA. 352+00.00

-BY51- 197

-Y51- POT Sta. 14+33.52

-Y50- POT Sta. 20+25.00

-BY50- 195

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mcbrodie1 21 RLN(24)778

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-37/CONST.29
R/W SHEET NO.	
RIGHT-OF-WAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/2001

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 29

-Y53- POT STA.14+50.00 =
-Y53WB- POT STA.14+50.00 (43' RT)
-Y53EB- POT STA.14+50.00 (48' LT)
/5

BEGIN CONSTRUCTION
-Y53- POT STA. 14+75.00

SEE SHEET 2-M FOR DITCH DETAILS
SEE SHEET 47 FOR -L- PROFILE
SEE SHEET 55 FOR -Y52- PROFILE
SEE SHEET 56 FOR -Y53- PROFILE

CAMP LEJEUNE

2012 ADT / 2032 ADT	-Y53- NC 24 FREEDOM WAY	
		28716 / 36476
21292 / 28412	7400 / 11400	1600 / 1600 — 9980 / 10780
-L- PINEY GREEN ROAD (SR 1406)		CAMP LEJEUNE
	9212 / 11532	3700 / 3700
		32628 / 38708
	-Y53- NC 24 FREEDOM WAY	

BEVERLY JO CARTER & MARY E. CARTER

ENON CHAPEL BAPTIST CHURCH (342)

ISBK CHURCH

ISFD

ISBKD

-BY52- 198

-BY53- 203

-BL- 59

-Y52- POT STA. 10+00.00
BEGIN PAVEMENT
-Y52- STA.10+35.00

MB 6 PG 47

CUT DITCH SEE DETAIL 59

Begin Proposed 5' Sidewalk -Y52- 10+86 LT

-BY52- 199

SPECIAL LATERAL BASE DITCH SEE DETAIL 58

CLASS 'B' RIP RAP EST. 5 TONS EST. 14 SY GEOTEXTILE

Prop.5' Mono.Conc.Island

Prop.2'-6" C&G

REMOVE 25' RCP

REMOVE 15" RCP

REMOVE 18" RCP

REMOVE 24" RCP

REMOVE

REMOVE & RESET GUARDRAIL

Prop.5' Mono.Conc. Island

A. G. LEE OIL COMPANY, INC. (346)

DO NOT DISTURB UNDERGROUND TANKS, CANOPY, DISPENSERS, OR CONCRETE IN TCE

DO NOT DISTURB BUSINESS SIGN IN TCE

DO NOT DISTURB FUEL TANKS OR BUSINESS SIGN IN AUE

MTL CANOPY

CONC CANOPY

PROP.CONC. CURB 8"x12"

PROP.CONC.CURB 8"x12"

CLASS 'B' RIP RAP EST. 3 TONS EST. 11 SY GEOTEXTILE

ENON CHAPEL BAPTIST CHURCH (342)

MB 6 PG 47

BEGIN CONSTRUCTION
-Y52- POT STA. 10+00.00

BARBARA RONZO

MAN KIL CHOE, ET UX (343)

NAVY FEDERAL CREDIT UNION (339)

H & M FARMS, LLC (341)

CHRISTOPHER A. HEATH, ET UX (340)

GWEN WYNN, ET AL (347)

-L- POT Sta. 352+95.54 =
-Y52- POT Sta. 11+53.14

-L- POT Sta. 358+68.15 =
-Y53- POT Sta. 21+14.20

END TIP PROJECT U-3810
-L- STA. 360+15.00

MATCH TO SHEET 28 -L- STA. 352+00.00

MATCH TO SHEET 31 -Y53- STA. 24+50.00

SPECIAL LATERAL V DITCH SEE DETAIL ?

CAMP LEJEUNE

REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-38/CONST.30
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~

NAD 83/2001

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 30

SEE SHEET 2-M FOR DITCH DETAILS
SEE SHEET 5I FOR -Y14- PROFILE

REVISIONS 8/17/99

MATCH TO SHEET 8 -Y14- STA. 18+00.00

72 J & T SIDING, INC.
72A TERRY D. TRAYNOR
350 SUELLEN B. GREER
353 HUBERT SAUNDERS, ET UX
HUBERT SAUNDERS, ET UX
355 DONALD K. COPELAND, ET UX
357 LARRY J. MINER, ET UX
357 LARRY J. MINER, ET UX
356 J and J REALTY, INC.
349 JAMES WILSON, JR.
349 JAMES WILSON, JR.
352 WILLIAM LOCKE SR.
354 CHARLES B. CLARK, ET AL
DUNCAN M. MOORE 64
62 LISA M. FLETCHER, ET VIR
REDDIE DIXON, ET VIR

N 32°00'36" E 188.16'
N 31°55'47" E 59.86'
N 07°25'49" E 266.72'
S 58°06'13" E 250.40'
S 58°03'57" E 250.31'
S 34°54'03" W 64.88'
S 34°53'47" W 174.93'
S 55°05'13" E 248.84'
N 55°03'13" W 250.13'
S 39°43'17" W 121.19'
S 39°41'12" W 69.68'
S 49°40'48" E 248.88'
S 42°06'12" W 175.00'
S 47°53'48" E 250.50'
N 47°53'48" W 250.31'
S 32°43'51.5" W
S 42°02'50.3" W
S 71°49'23" E 250.55'
S 58°17'30" E 219.26'
S 58°17'30" E 234.87'
S 58°07'46" E 249.15'
S 58°47'50" E 25.37'
N 22°08'30" E 88.61'
N 36°49'40" E 102.00'
N 36°49'40" E 180.72'
N 36°49'40" E 180.00'
N 36°49'40" E 175.00'
N 36°49'40" E 142.60'
S 48°05'18" E 193.00'
S 48°05'30" E 232.00'
S 57°51'30" W 425.53'
S 18°10'40" E 320.00'
150.00'
150.00'

-Y14-
PI Sta 24+87.96
Δ = 9°18' 58.8" (RT)
D = 2° 02' 46.6"
L = 455.28'
T = 228.14'
R = 2,800.00'
SE = 06
RO = SEE PLANS

-Y14- PC Sta. 22+59.81
-Y14- PT Sta. 27+15.10

END PAVEMENT
-Y14- STA. 27+00.00

END CONSTRUCTION
-Y14- STA. 28+50.00

32 x 15 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
7 ft. weir
ID 30.2F

66 x 33 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
25 ft. weir
ID 30.1F

-BY14- 109
-BY14- 108

SPECIAL LATERAL BASE DITCH SEE DETAIL 16
SPECIAL LATERAL BASE DITCH SEE DETAIL 17
SPECIAL LATERAL BASE DITCH SEE DETAIL 61
SPECIAL LATERAL BASE DITCH SEE DETAIL 62
SPECIAL CUT DITCH SEE DETAIL 68
SPECIAL CUT DITCH SEE DETAIL 69
SPECIAL CUT DITCH SEE DETAIL 70
LATERAL BASE DITCH SEE DETAIL 63
RIP-RAP AT EMBANKMENT CLASS 'I' EST. 35 TONS EST. 48 SY GEOTEXTILE SEE DETAIL 64
CLASS 'B' RIP RAP EST. 2 TONS EST. 7 SY GEOTEXTILE
CLASS 'B' RIP RAP EST. 3 TONS EST. 10 SY GEOTEXTILE
CLASS 'B' RIP RAP EST. 5 TONS EST. 14 SY GEOTEXTILE

DITCH DESIGN TO REFLECT PROJECT U-4907 FROM -Y14- STA. 27+00 TO 28+50

GRADE TO DRAIN
120' TAPER
300' TAPER RIGHT
100' UNIFORM TAPER LT AND RT
Proposed 5' Mono. Conc. Island
FOUND (ABAN)
2SFD
2S FD
ISBKD
IS BK D
CAR PORT
JUNIPER CLUB RD
SR 1947 BEECHTREE RD
EXISTING B/W MTL HW
EXISTING CONCRETE

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\\chandler1 ET #EN/247/78

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-39/CONST.31
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~

NAD 83/2001

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 31

SEE SHEET 2-M FOR DITCH DETAIL
SEE SHEET 56 FOR -Y53- PROFILE

CAMP LEJEUNE

-BY53- 205

-BY53- 206

25

30

-Y53- STA. 24+50.00

MATCH TO SHEET 29 -Y53-

-Y53- POT Sta. 32+01.55 =
-Y53WB- POT Sta. 32+01.55 (43' RT.)
-Y53EB- POT Sta. 32+01.55 (48' LT.)

-Y53EB- N 79° 36' 38.0" W
NC 24 EB 40' BST

-Y53WB- N 79° 36' 38.0" W
NC 24 WB 40' BST

N 79° 36' 38.0" W -Y53- F

END CONSTRUCTION
-Y53- STA. 30+34.00

COLLAR AND EXTEND
REMOVE
15" RCP-IV
2' PS
150' TAPER
MATCH EX.
RETAIN
DI
JACKSONVILLE CITY LIMITS EIS
MAG NAIL
24" RCP
18" RCP
60" CONC
48" P/C
BST
C&G
CURB
ISMTI BUS
EXISTING R/W
EIS
SIS
W/L
COMP
TC

NANCE PROPERTIES INC.

BARBARA RONZO

MARVIN A. TROTT JR., ET UX

PINEY GREEN LLC

GEZA S. SARKOZY, ET UX

PINEY GREEN LLC

PINEY GREEN LLC

D.L. ROGERS CORP.

CHRISTOPHER A. HEATH, ET UX

341 H & M FARMS, LLC

S 79°07'54" E 79.15'
N 05°20'22" E
155.79'
N 79°15'52" W 113.05'
113.18'
N 79°15'52" W
3 5' DRAINAGE & UTILITY EASEMENT
N 79°15'55" W 60.00'
S 80°19'43" E 147.67'
N 89°49'03" E 314.36'
N 09°57'38" E 90.45'
N 09°57'41" E 128.13'
S 10°12'11" W 71.46'
N 80°59'39" W 196.04'
S 10°04'10" W 219.99'
S 10°39'27" W 285.55'
N 51°18'29" E 164.91'
N 11°53'36" E 181.24'
N 78°08'59" E 188.30'
N 78°04'58" W 347.77'
S 17°09'40" W 209.79'
N 78°03'18" W 139.98'
N 73°12'46" E 155.46'

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mchandler

8/17/99

REVISIONS

BEGIN TIP PROJECT U-3810

-L- STA. 10+00.00

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-40/CONST.04
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/2001

-Y- STA. 17+00.00 MATCH TO INSET

SEE SHEET 2-N FOR -L- & -Y- INTERSECTION DETAIL

SEE SHEET 2-H FOR DITCH DETAILS

SEE SHEET 32 FOR -L- PROFILE

SEE SHEET 48 FOR -Y- & -YI- PROFILES

-Y- POT STA.28+25.00 =
-YSB- POT STA.28+25.00 (34.5' RT)
-YNB- POT STA.28+25.00 (35.0' LT)

END CONSTRUCTION
-Y- STA. 28+00.00

NCDOT GPS U3810-6

END RESURFACING
-YSB- Sta.24+66.00

50 x 12 x 3
ID 4.2F

BEGIN RESURFACING

-L- POT Sta. 10+00.00 =
-Y- POT Sta.20+55.88

SPECIAL CUT BASE DITCH
SEE DETAIL 1

1.5 inch Skimmer
with 0.25 inch
Orifice Diameter
16 ft. weir with
2 ft. weir height
ID 4.1F
(See Earthen Dam
with Skimmer Detail)

END CONSTRUCTION
-YI- STA. 11+00.00

-YI- POT Sta.11+09.24

-L- POT Sta. 13+98.66 =
-YI- POT Sta. 10+00.00

-BL- 2

-BYI- 76

MATCH TO SHEET 5 -L- STA. 17+00.00

INSET

-Y- POT STA.12+00.00 =
-YSB- POT STA.12+00.00 (34.5' RT)
-YNB- POT STA.12+00.00 (35.0' LT)

BEGIN RESURFACING
-Y- Sta.12+60.00

BEGIN CONSTRUCTION
-Y- STA. 12+45.00

-BY- 71

2012 ADT / 2032 ADT		
	SERVICE ROAD	
1630 / 2372		
1096 / 1656	356 / 516	20608 / 35488
-Y- US 17 MARINE BLVD.		-Y- US 17
30508 / 43388	13000 / 13000	3840 / 6240
		17040 / 19440
	-L- PINEY GREEN ROAD (SR 1406)	

REVISIONS

8/17/99

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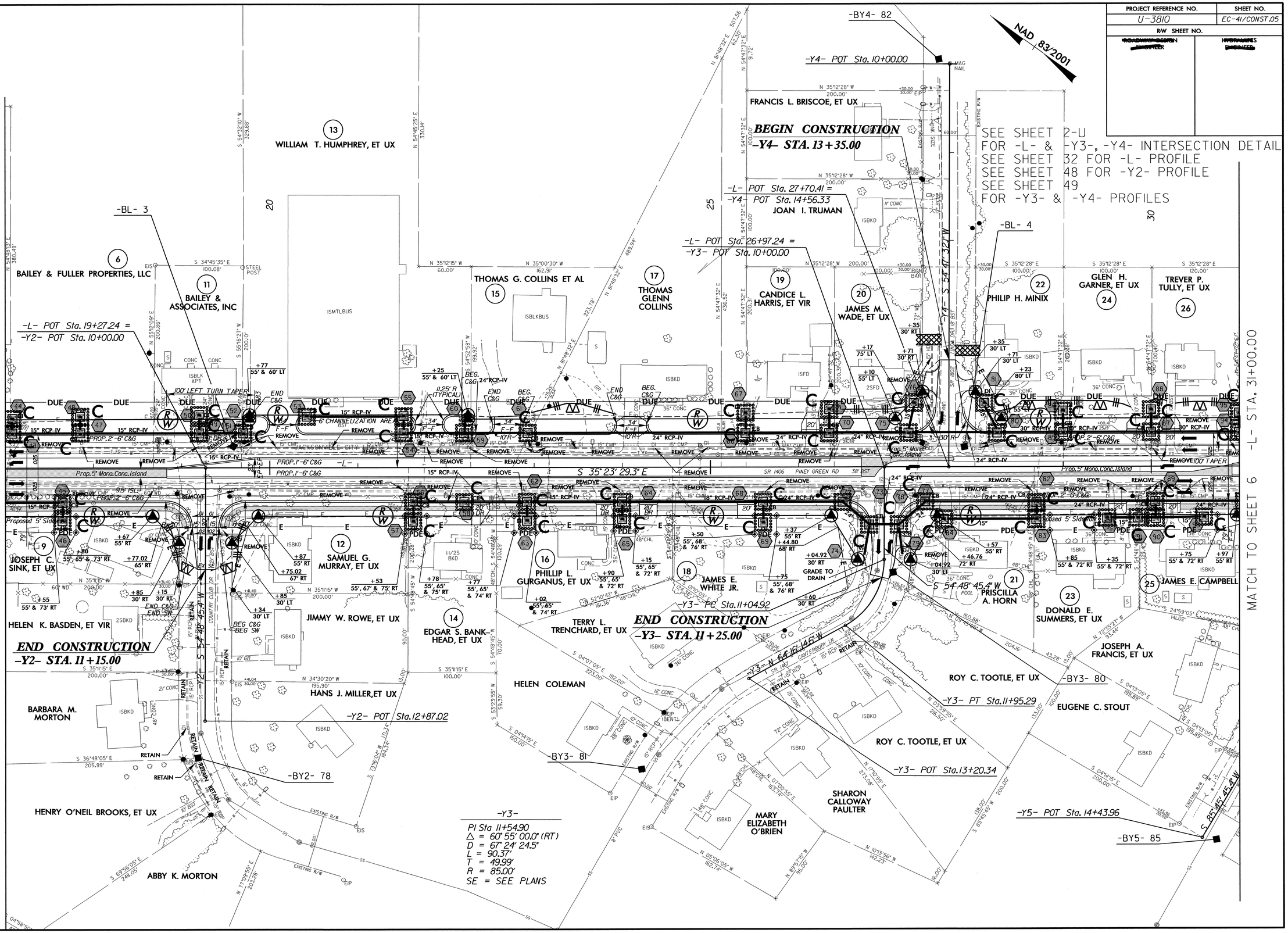
Microstation V8 (REN)
247-7730

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-41/CONST.05
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~



REVISIONS

8/17/99

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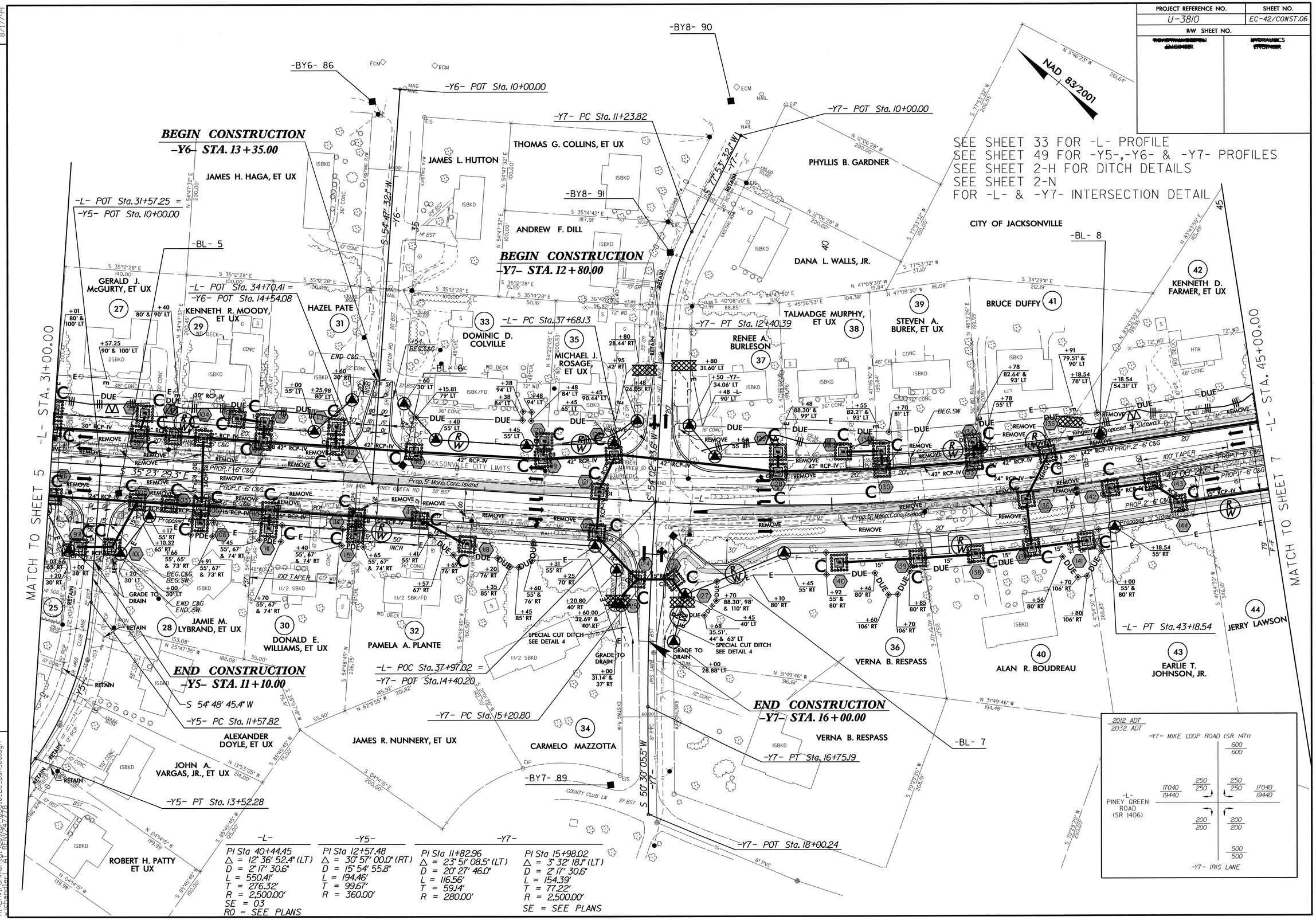
PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-42/CONST.06
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



-L-	-Y5-	-Y7-	
PI Sta 40+44.45	PI Sta 12+57.48	PI Sta 11+82.96	PI Sta 15+98.02
Δ = 12° 36' 52.4" (LT)	Δ = 30° 57' 00.0" (RT)	Δ = 23° 51' 08.5" (LT)	Δ = 3° 32' 18.1" (LT)
D = 2° 17' 30.6"	D = 15° 54' 55.8"	D = 20° 27' 46.0"	D = 2° 17' 30.6"
L = 550.41'	L = 194.46'	L = 116.56'	L = 154.39'
T = 276.32'	T = 99.67'	T = 59.14'	T = 77.22'
R = 2,500.00'	R = 360.00'	R = 280.00'	R = 2,500.00'
SE = 03			SE = SEE PLANS
RO = SEE PLANS			

REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-43/CONST.07
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/2001

8/17/99

REVISIONS

-BY10- 96

-Y10- S 11°46'28.0" E

45 x 35 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
27 ft. weir
ID 7.1F

33 x 22 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
14 ft. weir
ID 7.2F

38 x 18 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
10 ft. weir
ID 7.1C

BEGIN CONSTRUCTION
-Y10- STA. 16+60.00

BEGIN CONSTRUCTION
-Y12- PC STA. 15+56.93

END CONSTRUCTION
-Y9- STA. 11+61.00

END CONSTRUCTION
-Y11- STA. 11+35.00

-Y10- PC Sta. 14+43.94

-Y10- PT Sta. 16+39.22

-Y10- PC Sta. 17+05.33

-Y10- PT Sta. 17+84.60

-L- POT Sta. 56+56.07 =
-Y11- POT Sta. 10+00.00

-L- POT Sta. 50+71.07 =
-Y9- POT Sta. 10+00.00

-L- POT Sta. 52+63.00 =
-Y10- POT Sta. 18+18.63

-L- POT Sta. 58+01.0645
-Y12- POT Sta. 18+23.39
-Y12- PT Sta. 17+80.36

-Y9- PC Sta. 12+54.91

-Y9- PT Sta. 14+49.45

-Y11- POT Sta. 13+52.01

-BY9- 94

-BY9- 95

-BY10- 97

-BY11- 100

-BY12- 102

-BL- 9

-BL- 10

-L- STA. 45+00.00

-L- STA. 59+00.00

MATCH TO SHEET 6

MATCH TO SHEET 8

ROBERTA J. SPICER

CANNON C. CARGILE, ET UX

DOUGLAS E. CANNON

DAVE FAYER

BILLY L. WILLIAMS

42 KENNETH D. FARMER, ET UX

45 DURWOOD L. HUMPHREY, ET UX, DORIS PARKER HUMPHREY

49 MARTHA YAGER HARRIS

52 WILLIAM O. LOWDER, ET UX

53 MARY M. MYERS

KARRIEB SHELTON, ET UX

54 MARY M. MYERS

PAULINE C. DEANGELIS

57 LINDA LITTLETON

59 LARRY N. BARKER, ET UX

44 JERRY LAWSON

46 LUCILLE A. BUGLISI, ET VIR

48 VIRGINIA B. GODFREY

50 DALE R. DANEHY, ET UX

51 CANDICE L. THOMPSON, ET VIR

56 IRENE W. MINIX

58 GEROLF H. ENGELSTATTER, ET UX

60 DONALD R. LITTLE, ET UX

JASON D. GRIBBINS, ET UX

RIP RAP AT EMBANKMENT
CLASS 'I' RIP RAP
EST. 4 TONS
EST. 7 SY GEOTEXTILE
SEE DETAIL 65

SPECIAL LATERAL BASE DITCH
CLASS 'I' RIP RAP
EST. 127 TONS
EST. 212 SY GEOTEXTILE
SEE DETAIL 6

CLASS 'I' RIP RAP
EST. 30 TONS
EST. 40 SY GEOTEXTILE
EST. 65 CY DDE
SEE DETAIL 7

SPECIAL LATERAL BASE DITCH
SEE DETAIL 9

CLASS 'I' RIP RAP
EST. 20 TONS
EST. 39 SY GEOTEXTILE
SEE DETAIL 6

CLASS 'B' RIP RAP
EST. 2 TONS
EST. 7 SY GEOTEXTILE

SPECIAL CUT DITCH
SEE DETAIL 11

SPECIAL CUT BASE DITCH
CLASS 'B' RIP RAP
EST. 26 TONS
EST. 59 SY GEOTEXTILE
SEE DETAIL 12

CLASS 'B' RIP RAP
EST. 5 TONS
EST. 14 SY GEOTEXTILE

BEGIN TEMP. SHORING NO.1
SEE TMP PLANS FOR DETAIL

END TEMP. SHORING NO.1
SEE TMP PLANS FOR DETAIL

BEGIN TEMP. SHORING NO.5
SEE TMP PLANS FOR DETAIL

END TEMP. SHORING NO.5
SEE TMP PLANS FOR DETAIL

HEAD DITCH
CLASS 'B' RIP RAP
EST. 25 TONS
EST. 54 SY GEOTEXTILE
EST. 55 CY DDE
SEE DETAIL 5

CLASS 'B' RIP RAP
EST. 1 TONS
EST. 5 SY GEOTEXTILE

CLASS 'I' RIP RAP
EST. 4 TONS
EST. 12 SY GEOTEXTILE

CLASS 'I' RIP RAP
EST. 105 TONS
EST. 145 SY GEOTEXTILE
EST. 145 CY DDE
SEE DETAIL 8

CLASS 'B' RIP RAP
EST. 2 TONS
EST. 8 TONS
EST. 21 SY GEOTEXTILE

CLASS 'B' RIP RAP
EST. 2 TONS
EST. 7 SY GEOTEXTILE

SPECIAL LATERAL BASE DITCH
SEE DETAIL 13

OBLITERATE AND GRADE TO DRAIN

SPECIAL LATERAL BASE DITCH
SEE DETAIL 13

SEE SHEET 33 FOR -L- PROFILE
SEE SHEET 49 FOR -Y9- PROFILE
SEE SHEET 50 FOR -Y10-,-Y11- & -Y12- PROFILES
SEE SHEET 2-H FOR DITCH DETAILS
SEE SHEET 2-O FOR -L- & -Y11- INTERSECTION DETAIL
SEE SHEETS C-? THRU C-? FOR CULVERT PLANS

2012 ADT
2032 ADT

-Y12- WOLF SWAMP ROAD (SR 1407)
3880 / 4680

-L- PINEY GREEN ROAD (SR 1406)
17040 / 19440 — 856 / 1016 — 3024 / 3664 — 19208 / 22088

-Y9-
PI Sta 13+54.25
Δ = 28° 34' 50.0" (RT)
D = 14° 41' 28.4"
L = 194.54'
T = 99.34'
R = 390.00'

-Y10-
PI Sta 15+41.75
Δ = 8° 21' 00.0" (RT)
D = 4° 16' 32.9"
L = 195.28'
T = 97.82'
R = 1,340.00'

PI Sta 17+47.18
Δ = 45° 25' 06.3" (RT)
D = 57° 17' 44.8"
L = 79.27'
T = 41.85'
R = 100.00'
SE = SEE PLANS

-Y12-
PI Sta 16+74.98
Δ = 45° 43' 17.5" (RT)
D = 20° 27' 46.0"
L = 223.44'
T = 118.05'
R = 280.00'
SE = SEE PLANS

REMOVAL OF EXIST PAVEMENT

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Microstation J REN/217778

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-44/CONST.08
R/W SHEET NO.	
ENGINEER	ENGINEER

2012 ADT
2032 ADT

-Y14- COUNTRY CLUB ROAD (SR 1708)

-L- PINEY GREEN ROAD (SR 1406)

19208 / 22088	856 / 1016	228 / 308	27108 / 35988
	4468 / 4948	12996 / 19556	
		18380 / 25180	

-Y14- COUNTRY CLUB ROAD (SR 1403)

BEGIN CONSTRUCTION
-Y14- STA. 12+00.00

END CONSTRUCTION
-Y13- STA. 13+00.00

BEGIN CONSTRUCTION
-Y15- STA. 12+60.00

36 x 18 x 3 10 ft. weir (See Infiltration Basin Detail) ID 8.1C

MATCH TO SHEET 7 -L- STA. 59+00.00

MATCH TO SHEET 9 -L- STA. 73+00.00

MATCH TO SHEET 30 -Y14- STA. 18+00.00

-L- PC Sta. 61+20.06

-L- POC Sta. 62+41.26 = -Y13- POT Sta. 10+00.00

-Y14- PC Sta. 10+21.52

-Y14- PT Sta. 12+28.44

-Y14- PC Sta. 14+10.69

-L- PT Sta. 66+86.93

-Y14- PT Sta. 17+25.56

-L- PC Sta. 72+17.69

-L- POC Sta. 72+37.61 = -Y15- POT Sta. 13+87.01

-L- POC Sta. 66+77.16 = -Y14- POC Sta. 15+51.06

-Y15- POT Sta. 10+00.00

-Y13- POT Sta. 14+70.38

-BY13- 105

-BY14- 106

-BY15- III

-BL- II

-BL- 12

-BL- 13

-Y13-

-Y14-

-Y15-

SR 1406 PINEY GREEN RD

SR 1774 NOBLE CT

59 LARRY N. BARKER, ET UX

60 DONALD R. LITTLE, ET UX

61 DAWN L. McCULLEN

GEROLF H. ENGELSTATTER, ET UX

62 LISA M. FLETCHER, ET VIR

REDDIE DIXON, ET VIR

63 ARTHUR MARTIN, ET UX

64 DUNCAN M. MOORE

65 MRS. SACHIKO JOHNSON

66 TWF INC.

67 JIMMY E. BOLLEN-BACH, ET UX

ADAM W. ADKINS, ET UX

ADAM W. ADKINS

CARL L. SUTTON

69

CARL J. RAUDEN-BUSH, ET UX

70

71 CIRCLE K. PROPERTIES, INC.

72 J & T SIDING, INC.

73 DALE E. JOHNSON, ET UX

74 ILENA GILBERT MAYS

75 CHARLES M. SPENCER, ET UX

76 EDWARD A. HOWARD, ET UX

77

78 ROBERT R. HAMILTON, ET UX

79 WILLIE HALL

MATTHEW S. LEWIS

BYRON R. CAVENAUGH, ET UX

80

LUTHER M. WARREN

Remove exist. Islands

Proposed 5' Mono. Conc. Island 2 RAD. TYP.

Prop. 5' Mono. Conc. Island

Prop. 5' Mono. Conc. Island

Proposed 5' Sidewalk

Proposed 6' Walk

INLET CHANNEL DETAIL EST. 65 CY DDE SEE DETAIL 14

PSH SEE DETAIL 18

OUTLET CHANNEL DETAIL CLASS 'I' RIP RAP EST. 60 TONS EST. 85 SY GEOTEXTILE EST. 30 CY DDE SEE DETAIL 15

SPECIAL LATERAL BASE DITCH SEE DETAIL 17

SPECIAL LATERAL BASE DITCH SEE DETAIL 16

= PROP. PAINT STRIPING

-L-
PI Sta 64+08.89
Δ = 27° 03' 57.6" (LT)
D = 4° 46' 28.7"
L = 566.87'
T = 288.83'
R = 1,200.00'
SE = 04
RO = SEE PLANS

-L-
PI Sta 76+45.36
Δ = 16° 13' 34.3" (RT)
D = 1° 54' 35.5"
L = 849.60'
T = 427.66'
R = 3,000.00'
SE = 03
RO = SEE PLANS

-Y14-
PI Sta 11+28.10
Δ = 33° 52' 20.0" (RT)
D = 16° 22' 12.8"
L = 206.91'
T = 106.58'
R = 350.00'
SE = SEE PLANS

-Y14-
PI Sta 15+69.58
Δ = 18° 59' 25.3" (RT)
D = 6° 01' 52.1"
L = 314.87'
T = 158.89'
R = 950.00'
SE = SEE PLANS

SEE SHEET 34 FOR -L- PROFILE
SEE SHEET 50 FOR -Y13- & -Y15- PROFILES
SEE SHEET 51 FOR -Y14- PROFILE
SEE SHEET 2-IFOR DITCH DETAILS
SEE SHEET 2-O FOR -L- & -Y14- INTERSECTION DETAIL

REVISIONS

8/17/99

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Microstation V8 REV(27.11)

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-45/CONST.09
R/W SHEET NO.	
~~ENGINEER~~	~~ENGINEER~~

NAD 83/2001

8/17/99

REVISIONS

EC-44/CONST.08

JANICE M. COMBS

RUTH W. BRINN

JOHN N. ROSS

WILLIE HALL (79)

WILLIE HALL (82)

COLLIER S. SMITH (83)

JEFFREY S. HARDISON

-BY16- 113

JOHN R. SWOKLA, ET UX

EDWARD B. DAUGHERTY, ET UX

NATIVIDAD MURPHY

WILLIE HALL (85)

WILLIE HALL

B. BARDEN LANIER

B. BARDEN LANIER

B. BARDEN LANIER

-BL- 4

-BL- 16

15

89

88

KIN WA ZHANG

CHARLES W. SUMMERLIN, ET UX (80)

KENNETH J. BAGARELLA, ET UX (81)

PANSY H. MANN (84)

RONALD D. MABEE, ET UX (86)

BEGIN CONSTRUCTION
-Y16- STA. 10+75.00

-LI- POC Sta. 77+62.58 =
-Y16- POT Sta. 11+73.44

-Y16- POT Sta. 10+00.00

-L- POC Sta. 77+59.90 =
-Y16- POT Sta. 11+97.17

-LI- POC Sta. 76+92.21 =
-L- POC Sta. 76+92.21
(23.50' RT)

-L- PT Sta. 81+42.31

-L- PT Sta. 80+67.29

BEGIN BRIDGE
-L- STA 83+23.94

END BRIDGE
-L- STA 86+31.06

1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
24 ft. weir with
3 ft. weir height
ID 9.1F
(See Earthen Dam
with Skimmer Detail)

63 x 20 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
12 ft. weir
ID 9.2C

CLASS 'B' RIP RAP
EST. 3 TONS
EST. 10 SY GEOTEXTILE

RIP RAP AT EMBANKMENT
CLASS 'I' RIP RAP
EST. 20 TONS
EST. 30 SY GEOTEXTILE
SEE DETAIL 20

CLASS 'B' RIP RAP
EST. 5 TONS
EST. 14 SY GEOTEXTILE

SPECIAL LATERAL BASE DITCH
SEE DETAIL 19

CLASS 'I' RIP RAP
(STRUCTURE PAY ITEM)

CLASS 'II' RIP RAP
(STRUCTURE PAY ITEM)

INLET, TYPICAL
EST. 55 CY DDE
SEE DETAIL 21

OUTLET, TYPICAL
EST. 140 CY DDE
SEE DETAIL 22

SEE DETAIL 23

BRIDGE #118 OVER NORTHEAST CREEK OVERFLOW
BRIDGE #119 OVER NORTHEAST CREEK
PROJECT B-2260701 (B-3215)
CONC DECKS, BENTS, RAILS, PILINGS, GUARDRAILS ETC.

N C DEPARTMENT OF TRANSPORTATION

REMOVE & REPLACE EXIST. GUARDRAIL & SBG AS NEEDED FOR 20' CONSTRUCTION

REMOVE EXIST. GUARDRAIL

RETAIN EXIST. GUARDRAIL

RETAIN EXIST. BRIDGE

PROP. GUARDRAIL

ELBOWS & ROD & LUG CONNECTORS
EST. 1 TONS
EST. 5 SY GEOTEXTILE

2 @ 72" RCP FLOODPLAIN PIPE

18" RCP

PERMANENT DRAINAGE EASEMENT PROJECT B-2260701 (B-3215)

PERMANENT UTILITY EASEMENT PROJECT B-2260701 (B-3215)

SANITARY SEWER EASEMENT

SANITARY SEWER TEMP. CONST. EASEMENT

JACKSONVILLE CITY LIMITS

MATCH TO SHEET 8 -L- STA. 73+00.00

MATCH TO SHEET 10 -L- STA. 87+00.00

NOTE:
UTILIZE SKIMMER BASIN AND/OR EARTHEN DAM WITH SKIMMER AS STILLING BASIN WHERE APPLICABLE.

= PROP. PAINT STRIPING

SEE SHEET 35 FOR -L- & -LI- PROFILES
SEE SHEET 50 FOR -Y16- PROFILE
SEE SHEETS 2-F & 2-G FOR BRIDGE SKETCH
SEE SHEETS 2-I FOR DITCH DETAILS
SEE SHEETS S-? THRU S-? FOR STRUCTURE PLANS

-L-
PI Sta 76+45.36
Δ = 16°13' 34.3" (RT)
D = 1° 54' 35.5"
L = 849.60'
T = 427.66'
R = 3,000.00'
SE = 03
RO = SEE PLANS

-LI-
PI Sta 79+17.56
Δ = 7° 09' 48.7" (RT)
D = 1° 35' 29.6"
L = 450.10'
T = 225.34'
R = 3,600.00'
SE = 03
RO = SEE PLANS

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PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-46/CONST.10
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~

8/17/99

REVISIONS

B. BARDEN LANIER

80 x 25 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
17 ft. weir
ID 10.1C

-BY17- 115

-Y17- POT Sta. 10+00.00

-BY17- 116

B. BARDEN LANIER

BEGIN CONSTRUCTION
-Y17- STA. 12+45.00

-BL- 17

LATERAL BASE DITCH
CLASS 'B' RIP RAP
EST.196 TONS
EST. 440 SY GEOTEXTILE
SEE DETAIL 24

N 58°58'05" W 627.57'

N C DEPARTMENT OF TRANSPORTATION

89

CL I RIP RAP PAD
EST. 28 TONS
EST. 78 SY GEOTEXTILE
SEE DETAIL 66

-L- STA. 87+00.00

-CFW-

RETAIN EXIST. GUARDRAIL

50' MCR

-LI-

PROP.1'-6" C&G

-L-

TAU 350

PROP.1'-6" C&G

PROP.2'-6" C&G

-LI- PC Sta. 87+40.55

N 72°45'06" W 132.30'

END C&G, END SW TIE TO EX.

N 62°40'32" W 197.04'

30' DRAINAGE & UTILITY EASEMENT

-LI- PRC Sta. 89+30.29

-Y17- PC Sta. 14+49.79

ROGER R. ROFF, JR., ET UX

FREDERICK E. WHITE, ET UX

JOHN R. COHN, ET UX

KIN WA ZHANG

EARNEST A. PERRY, ET UX

JEREMIAH L. HENDRICKS, ET UX

ANGELA M. DAMIANO

MICHAEL L. VARGA, ET UX

EMMANUEL FREE WILL BAPTIST CHURCH, INC.

BARKLEY COURT

-LI- POT Sta. 90+71.46 =
-Y17- POT Sta. 13+11.08

-L- POT Sta. 90+68.35 =
-Y17- POT Sta. 13+34.73

-LI- PC Sta. 76+92.21 =
-L- POT Sta. 91+16.87
(23.50' RT)

ANGELA M. DAMIANO

TOE PROTECTION
SEE DETAIL 26

48" RCP-IV

24" RCP-IV

54" RCP-IV

15" RCP-IV

SR 1406 PINEY GREEN RD

S 58° 50' 45.0" E

Prop.5' Mono.Conc.Island

-LI- SRC Sta. 88+35.42
Δ = 1° 21' 32.1" (RT)
D = 0° 42' 58.3"
L = 189.74'
T = 94.88'
R = 8,000.00'
SE = SEE PLANS

-LI- SRC Sta. 90+25.16
Δ = 1° 21' 32.1" (LT)
D = 0° 42' 58.3"
L = 189.74'
T = 94.88'
R = 8,000.00'
SE = SEE PLANS

UTILITY EASEMENT FOR SEPTIC PURPOSES
FOR LOT 1 OF MB 25 PG 82
SEE MB 25 PG 111
& DB 873 PG 418
DB 1270 PG 673

LATERAL BASE DITCH
EST. 38 CY DDE
SEE DETAIL 25

LATERAL BASE DITCH
EST. 72 CY DDE
SEE DETAIL 25

END CONSTRUCTION
-Y17- STA. 14+80.00

-Y17- PT Sta. 16+34.58

-L- POT Sta. 97+46.95 =
-Y18- POT Sta. 14+62.09

-Y17-
PI Sta 15+44.00
Δ = 27° 30' 00.0" (LT)
D = 14° 52' 55.3"
L = 184.79'
T = 94.21'
R = 385.00'

-BL- 19
NCDOT GPS U3810-5

= PROP. PAINT STRIPING

-Y18- POT Sta. 10+00.00

-BY18- 119

EMMANUEL FREE WILL BAPTIST CHURCH, INC.

BLUE MOON HOLDINGS, LP.

BEGIN CONSTRUCTION
-Y18- STA. 11+20.00

EMMANUEL FREEWILL BAPTIST CHURCH

EMMANUEL FREE WILL BAPTIST CHURCH, INC.

REDCO PROPERTIES, LLC

BEG.C&G TIE TO EX. C&G

BEG.SW

Tie to Exist. SW

Proposed 5' Sidewalk

2'-6" CHANNELIZATION AREA

END C&G

42" RCP-IV

24" RCP-IV

48" RCP-IV

Prop.5' Mono.Conc.Island

265' RIGHT TURN TAPER

SANITARY SEWER EASEMENT

EDWIN L. REFFELT

S 59°07'30" E 377.80'

92 DANIEL M. HAGAN, ET UX

-L- PI Sta 87+42.53
Δ = 43° 42' 53.0" (RT)
D = 3° 49' 11.3"
L = 1145.00'
T = 599.00'
R = 1500.00'
SE = SEE PLANS

-L- PI Sta 101+00.00
Δ = 43° 42' 53.0" (LT)
D = 3° 49' 11.3"
L = 1145.00'
T = 599.00'
R = 1500.00'
SE = SEE PLANS

-Y18- HALLTOWN ROAD (SR 1410)

	2012 ADT / 2032 ADT			
-L- PINEY GREEN ROAD (SR 1406)	27108 / 35988	1856 / 2016	1120 / 2320	26372 / 36292
			2976 / 4336	

SEE SHEET 2-J FOR DITCH DETAILS
SEE SHEET 2-P
FOR -L- & -Y18- INTERSECTION DETAIL
SEE SHEET 36 FOR -L- & -LI- PROFILES
SEE SHEET 51 FOR -Y17- & -Y18- PROFILES

MATCH TO SHEET 9 -L- STA. 87+00.00

MATCH TO SHEET 11 -L- STA. 101+00.00

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PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-47/CONST.JI
RW SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~

8/17/99

REVISIONS

ROADWAY DESIGN

NAD 83/2001

GEORGE A. HOWARD, JR., et ux

99 HIGHLAND CROSSING, LLC

101 HOWARD AND SONS RENTALS

101 HOWARD AND SONS RENTALS

104 GEORGE A. HOWARD, JR., et ux

98 BAILEY AND ASSOCIATES, INC.

97 RETAIN REDCO PROPERTIES, LLC RETAIN

96 EDWIN L. REFFELT

96 EDWIN L. REFFELT

100 EMMANUEL FREE WILL BAPTIST CHURCH

102 HARVEST PRESBYTERIAN CHURCH OF JACKSONVILLE (PCA), INC.

-BY19- 121

-Y19- POT Sta. 10+00.00

BEGIN CONSTRUCTION
-Y19- STA. 10+80.00

-BL- 20

-L- PT Sta. 111+68.66

-L- PC Sta. 105+15.13

-L- POT Sta. 102+79.46 =
-Y19- POT Sta. 12+43.72

-L- POT Sta. 102+80.13 =
-Y20- POT Sta. 10+00.00

-BY20- 124

-BY20- 125

-Y20- POT Sta. 13+77.27

END CONSTRUCTION
-Y20- STA. 11+30.00

-L- STA. 101+00.00

-L- STA. 115+00.00

MATCH TO SHEET 10

MATCH TO SHEET 12

Proposed 5' Mono. Conc. Island

Prop. 5' Mono. Conc. Island

Proposed 5' Sidewalk

100' TAPER

265' RIGHT TURN LANE

CLASS 'B' RIP RAP
EST. 1 TONS
EST. 5 SY GEOTEXTILE

SANITARY SEWER EASEMENT

DO NOT DISTURB TREE

END SW

BEG.SW

BEG.C&G
BEG.SW
TIE TO EX.

END C&G
END SW
TIE TO EX.

END C&G
TIE TO EX.C&G

BEG.C&G
TIE TO EX.C&G

-L-
PI Sta 108+41.97
△ = 3° 07' 13.4" (LT)
D = 0° 28' 38.9"
L = 653.53'
T = 326.85'
R = 12,000.00'
SE = NC

2012 ADT
2032 ADT

-Y19- HIGHLAND CROSSING SHOPPING CENTER

-L- PINEY GREEN ROAD (SR 1406)

-Y20- CREEDMOOR ROAD (SR 1899)

SEE SHEET 2-V FOR LEFT OVER AT -L- STA 109+07
SEE SHEET 37 FOR -L- PROFILE
SEE SHEET 52 FOR -Y19- & -Y20- PROFILES

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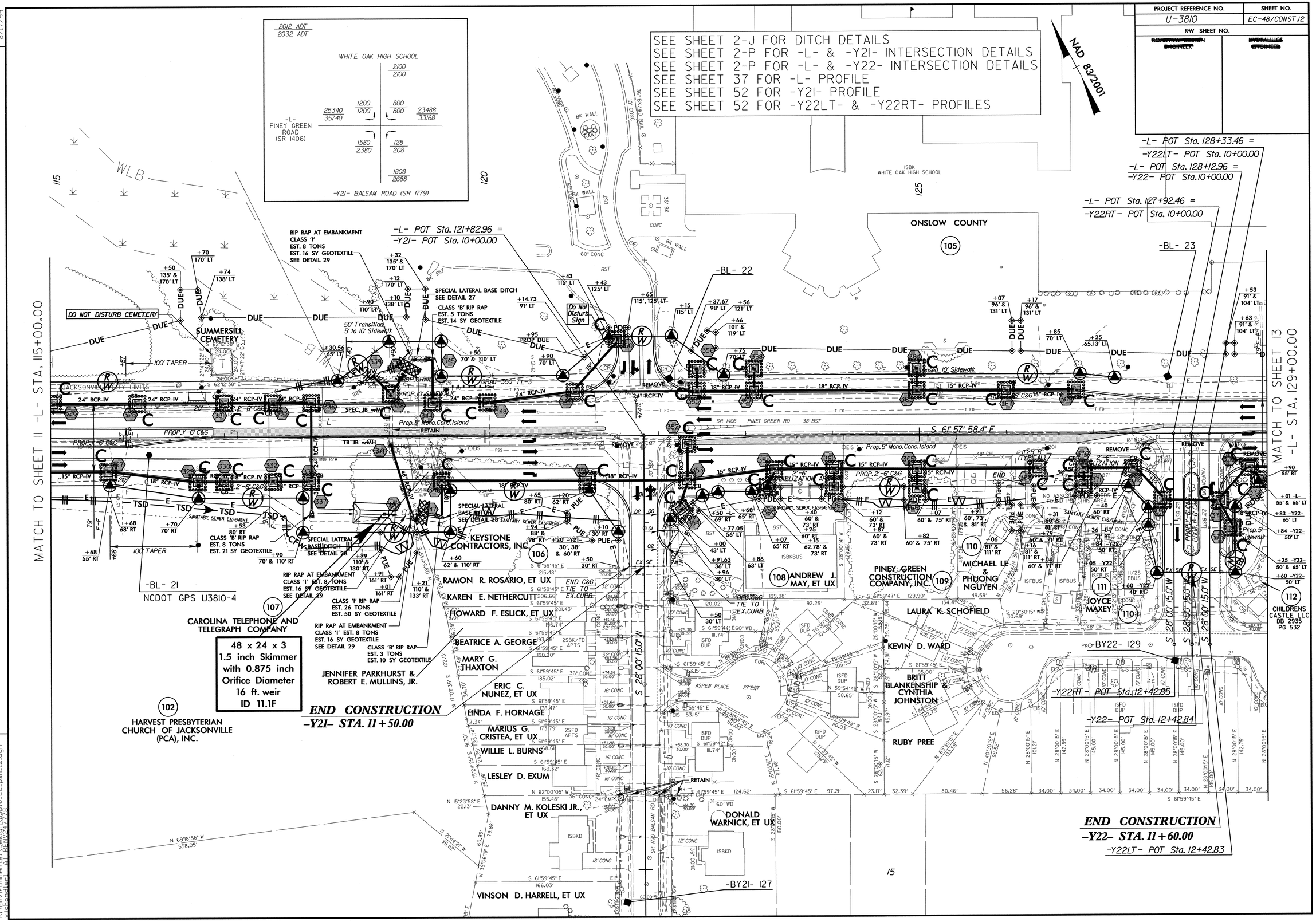
PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-48/CONST.12
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~

SEE SHEET 2-J FOR DITCH DETAILS
SEE SHEET 2-P FOR -L- & -Y21- INTERSECTION DETAILS
SEE SHEET 2-P FOR -L- & -Y22- INTERSECTION DETAILS
SEE SHEET 37 FOR -L- PROFILE
SEE SHEET 52 FOR -Y21- PROFILE
SEE SHEET 52 FOR -Y22LT- & -Y22RT- PROFILES



REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-49/CONST J3
R/W SHEET NO.	
~~HIGHWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~

8/17/99

REVISIONS

2012 ADT
2032 ADT

WHITE OAK HIGH SCHOOL
STUDENT PARKING LOT

400 / 400

-L-
PINEY GREEN ROAD (SR 1406)

23488 / 3168 | 200 / 200 | 200 / 200 | 23488 / 3168

NAD 83/2001

105 ONSLOW COUNTY

115 ESTATE BUILDERS, LLC

116 CENTERVIEW BAPTIST CHURCH OF JACKSONVILLE, NORTH CAROLINA, INC.

CENTERVIEW BAPTIST CHURCH OF JACKSONVILLE, NORTH CAROLINA, INC. 118

CENTERVIEW BAPTIST CHURCH OF JACKSONVILLE, NORTH CAROLINA, INC. 117

-L- POT Sta. 133+42.96 = -Y23- POT Sta. 10+00.00

-BL- 24

-BL- 25

265' RIGHT TURN TAPER

HEAD DITCH
W/CLASS 'B' RIP RAP
EST. 26 TONS
EST. 28 SY GEOTEXTILE
EST. 50 CY DDE
SEE DETAIL 30

MATCH TO SHEET 12 -L- STA. 129+00.00

MATCH TO SHEET 14 -L- STA. 142+00.00

112 CHILDRENS CASTLE LLC

113 T. L. EDWARDS, ET AL

KEVIN D. WARD

CHILDRENS CASTLE LLC

RYAN C. SPENCER, ET UX

DAVID K. CROSSLEY

EDITH J. CROSSLEY, ET VIR

DAREN L. MCKEAN

BILLY H. GRAY, ET UX

CAROLINA WATER SERVICE, INC., OF NORTH CAROLINA

114 PINEY GREEN CONSTRUCTION COMPANY, INC.

114 PINEY GREEN CONSTRUCTION COMPANY, INC.

CLASS 'I' RIP RAP
EST. 25 TONS
EST. 50 SY GEOTEXTILE

CLASS 'B' RIP RAP
EST. 5 TONS
EST. 16 SY GEOTEXTILE

52 x 26 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
18 ft. weir
ID 13.1F

END CONSTRUCTION
-Y23- STA. 11+20.00

-L-
PI Sta 141+39.54
Δ = 26° 51' 12.4" (RT)
D = 2° 51' 53.2"
L = 937.36'
T = 477.45'
R = 2,000.00'
SE = 04
RO= 200'

-L- PC Sta. 136+62.09

-BY23- 131

-Y23- POT Sta. 15+63.70

SR 1781 PECAN LANE

SR 1781 WHITE OAK BLVD

SEE SHEET 38 FOR -L- PROFILE
SEE SHEET 52 FOR -Y23- PROFILE
SEE SHEET 2-J FOR DITCH DETAILS
SEE SHEET 2-Q FOR -L- & -Y23- INTERSECTION DETAIL

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PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-50/CONST.14
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~

8/17/99

REVISIONS

2012 ADT
2032 ADT

-L- PINEY GREEN ROAD (SR 1406)

23488 / 33168

23936 / 34896

856 / 3016

1304 / 4744

2160 / 7760

-Y24- HEMLOCK DRIVE (SR 1876)

NAD 83/2001

CENTERVIEW BAPTIST CHURCH OF JACKSONVILLE, NORTH CAROLINA, INC.

118

-L- POC Sta. 143+03.82 =
-Y24- POT Sta. 10+00.00

-BL- 26

NOTE: PLACE 1 FT. WIDE DRAINAGE SLOT OPENINGS IN MONOLITHIC ISLAND AT STA 143+80 -L- LT, STA 144+20 -L- LT, AND STA 144+60 -L- LT.

N 46°14'40" W 104.97'

CENTERVIEW BAPTIST CHURCH OF JACKSONVILLE, NORTH CAROLINA, INC.

118

N 13°49'50" E 209.37'

ROY LAIRD, ET UX

121

-DRI- POT Sta. 10+00.00

-DRI- PC Sta. 12+82.16

-DRI- S 46°10'43.0" W

BEGIN CONSTRUCTION
-DRI- STA. 13+10.00

-DRI- PT Sta. 13+58.16

-L- PT Sta. 145+99.45

-DRI- POT Sta. 14+25.95
-L- POT Sta. 147+18.90

END CONSTRUCTION
-Y24- STA. 11+40.00

N 44°23'39" W 182.34'

-Y24- POT Sta. 11+49.59

C. M. S., INC. OF JACKSONVILLE

114

PINEY GREEN CONSTRUCTION COMPANY, INC.

-BY24- 134

-BY24- 133

NANCY T. HERNANDEZ

120

-L- STA. 142+00.00

MATCH TO SHEET 13

MATCH TO SHEET 15 -L- STA. 156+00.00

GILROY B. WILSON, ET UX

FELICIA C. HINDS, ET VIR

EVA C. JAKOBSSON

JEAN M. RODRIGUEZ & VANESSA MAESTRE

122A

JOSE L. MURILLO, SR., ET UX

123

122B

ALBERT W. GAMBLIN, ET UX

-BY25- 135

DAVID SPENCER

CHARLES R. WILSON

JOHN O. ADAMS

-Y25- POT Sta. 10+00.00

-Y25- S 54°50'54.0" W

125

PAMELA A. JAMES, ET VIR

126

CHARLES F. SINNAMON, ET UX

128

JOHN L. DILLAHUNT

129

CHARLES R. KIMBROUGH, ET UX

130

CECILIA N. CLARKE

131

CLIFTON CAIN, ET UX

Remove Existing Sidewalk Per Engineer -L- Sta.149+26 to 151+65 LT

Remove Existing Sidewalk Per Engineer -L- Sta.152+00 to 156+00 LT

Proposed 5' Sidewalk

-L- POT Sta. 151+84.57 =
-Y25- POT Sta. 13+08.11

-BL- 27

60 x 28 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
20 ft. weir
ID 14.1F

TAIL DITCH
EST. 250 LF DDE
SEE DETAIL 31

-L-
PI Sta 141+39.54
Δ = 26° 51' 12.4" (RT)
D = 2° 51' 53.2"
L = 937.36'
T = 477.45'
R = 2,000.00'
SE = 04
RO = 200'

-DRI-
PI Sta 13+20.23
Δ = 8° 42' 31.0" (RT)
D = 11° 27' 33.0"
L = 76.00'
T = 38.07'
R = 500.00'

122
HOWARD AND SONS RENTALS, A NORTH CAROLINA GENERAL PARTNERSHIP

2012 ADT
2032 ADT

-Y25- BIRCHWOOD LANE (SR 1804)

500 / 500

-L- PINEY GREEN ROAD (SR 1406)

23936 / 34896

250 / 250

250 / 250

23936 / 34896

122
HOWARD AND SONS RENTALS, A NORTH CAROLINA GENERAL PARTNERSHIP

REMOVAL OF EXIST PAVEMENT

SEE SHEET 2-J FOR DITCH DETAILS
SEE SHEET 2-R FOR -L- & -Y24- INTERSECTION DETAIL
SEE SHEET 38 FOR -L- PROFILE
SEE SHEET 52 FOR -Y24- & -Y25- PROFILES
SEE SHEET 56 FOR -DRI- PROFILE

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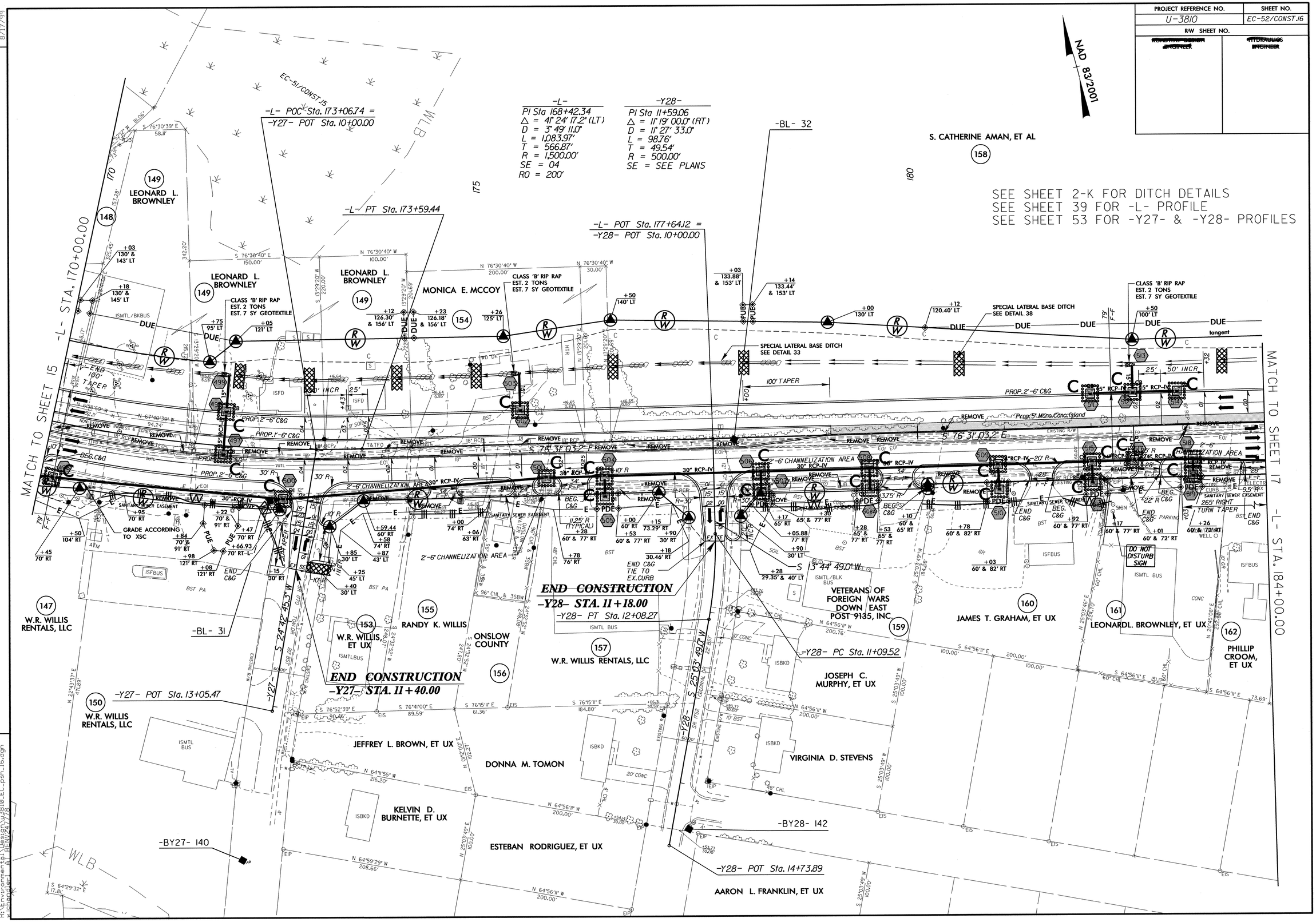
PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-51/CONST.15
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~

SEE SHEET 2-J FOR DITCH DETAILS
SEE SHEET 2-X FOR CULVERT DETOUR
SEE SHEET 2-X FOR CULVERT PHASING DETOUR
SEE SHEET 2-R FOR -L- & -Y26- INTERSECTION DETAIL
SEE SHEET 39 FOR -L- PROFILE
SEE SHEET 52 FOR -Y26- PROFILE
SEE SHEETS C-? THRU C-? FOR CULVERT PLANS

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-52/CONST.16
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~



REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-53/CONST JT
R/W SHEET NO.	
[redacted] ENGINEER	[redacted] ENGINEER

NAD 83/2001

2012 ADT
2032 ADT
-Y29- OLD 30 ROAD (SR 1411)
DHV = 7%
DIR = 60%
TTST = 2%
DUAL = 5%
4944 / 8784
-L- PINEY GREEN ROAD (SR 1406)
23936 / 34896
4376 / 7736
368 / 848
19728 / 27808
600 / 600
400 / 400
1200 / 1200
-Y29- CHARLES ROAD (SR 1755)

REVISIONS
8/17/99

BEGIN CONSTRUCTION
-Y29- STA. 11+73.00

BEGIN CONSTRUCTION
-Y31- STA. 10+95.00

158 S. CATHERINE AMAN, ET AL

164 S. CATHERINE AMAN

LUIS A. RIVERA, ET AL

RYAN E. DAVIS, ET UX

KATHERINE L. CATO

165 JOHN W. SIMMA, ET UX

166 GREGORY ALLEN

168 AARON E. MATTHEWS

170 MICHAEL V. TARAVELLA, ET UX

172 ANTHONY H. MARTIN

173 HOYT T. MARTIN

175 S. CATHERINE S. AMAN

176 SCOT E. CONKLIN

177 DAVID K. BULLOCK, ET UX

179 IGOR GLOUCHENKO & SVETLANA NESTEROVA

182 STEVEN C. TAYLOR

184 EARL F. HAYDEL, JR., ET UX

180 JAMES E. BENEFIELD, ET UX

-Y29- PC Sta. 12+33.58
-Y29- PT Sta. 16+16.18
-Y31- POT Sta. 10+00.00
-L- POC Sta. 186+36.55 = -Y29- POT Sta. 17+56.36
-Y29- PC Sta. 17+59.54
-L- PT Sta. 190+81.72
-L- POC Sta. 190+37.05 = -Y31- POT Sta. 12+16.99
-L- PC Sta. 184+81.45
-Y29- PT Sta. 21+53.08
END CONSTRUCTION
-Y29- STA. 20+83.00

-BY29- 145
-BL- 33
-BL- 34
-BL- 35
-Y31-
-L-

CLASS 'B' RIP RAP
EST. 5 TONS
EST. 14 SY GEOTEXTILE

SPECIAL CUT DITCH
SEE DETAIL 40

SPECIAL LATERAL BASE DITCH
SEE DETAIL 39

OBLITERATE AND GRADE TO DRAIN

CLASS 'B' RIP RAP
EST. 2 TONS
EST. 7 SY GEOTEXTILE

SPECIAL LATERAL BASE DITCH
SEE DETAIL 38

GRADE ACCORDING TO CROSS SECTIONS

120' TAPER
200' TAPER
100' TAPER
50' TAPER
265' RIGHT TURN TAPER
210' UNIFORM TAPER

Proposed 5' Mono. Conc. Island
Prop. 5' Mono. Conc. Island

54 x 27 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
19 ft. weir
ID 17.1F

CLASS 'I' RIP RAP
EST. 26 TONS
EST. 50 SY GEOTEXTILE

TAIL DITCH
CLASS 'I' RIP RAP
EST. 240 TONS
EST. 540 SY GEOTEXTILE
EST. 680 CY DDE
SEE DETAIL 42

-Y29-
PI Sta 14+27.82
Δ = 24° 21' 25.1" (LT)
D = 6° 21' 58.3"
L = 382.60'
T = 194.23'
R = 900.00'
SE = 04
RO = SEE PLANS

-Y29-
PI Sta 19+56.84
Δ = 10° 14' 56.8" (RT)
D = 2° 36' 15.7"
L = 393.54'
T = 197.30'
R = 2,200.00'
SE = SEE PLANS

-L-
PI Sta 187+83.03
Δ = 13° 45' 25.7" (RT)
D = 2° 17' 30.6"
L = 600.27'
T = 301.58'
R = 2,500.00'
SE = 03
RO = 150'

REMOVAL OF EXIST PAVEMENT
= PROP. PAINT STRIPING

SEE SHEET 2-K FOR DITCH DETAILS
SEE SHEET 2-S FOR -L- & -Y29- INTERSECTION DETAIL
SEE SHEET 40 FOR -L- PROFILE
SEE SHEET 53 FOR -Y29- & -Y31- PROFILES

MATCH TO SHEET 16 -L- STA. 184+00.00

MATCH TO SHEET 18 -L- STA. 198+00.00

OUTSIDE PROJECT LIMITS

162 BADER OTHMAN 163

167 WHITE OAK RIVER ROAD INVESTMENTS, LLC

167A ELAINE H. MURPHY

169 EDWARDS PROPERTY GROUP, LLC

171 BARBARA A. HANSEN, ET VIR

174 WHITE OAK RIVER ROAD INVESTMENTS, LLC

178 ANN AVERY

181 WILLIAM WAHMHOFF

NICHOLUS BLACKMON, ET UX

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PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-54/CONST.18
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~

NAD 83/2001

-BY32- 151

-Y32- POT Sta. 10+00.00

-BL- 36

-BL- 37

NCDOT GPS U3810-3

-L- POC Sta. 204+14.97 =
-Y33- POT Sta. 10+00.00

-BY34- 157

BEGIN CONSTRUCTION
-Y32- STA. 12+73.00

BEGIN CONSTRUCTION
-Y34- STA. 13+20.00

WILLIAM G. POWELL

JAMES A. AYER, ET UX

LUTHER T. RYMER, ET UX

HARVEY L. DAIL, ET UX

NORTH EAST PRIMITIVE BAPTIST CHURCH

GERALDINE K. TKACH

192 SANCTUARY OF FAITH CHURCH

PATRICK F. POWELL

194 FRED M. HECKLE

196 TIMOTHY O. CARR, ET UX

THOMAS PRIEST 187

KURT T. POSTREICH, ET UX 186

EARL F. HAYDEL, JR., ET UX 184

190

189 CEMETERY

191 PAUL T. MARCUM, ET UX

193 CLARA W. WILLIAMS

195 STEVE HEMBY, III, ET UX

197 LEONARD W. MORTON 197A

188 FRANK R. GILBERT, JR.

185 SAMUEL P FIELDS, ET UX

181 WILLIAM WAHMHOFF

-L- PC Sta. 200+20.79

-L- POC Sta. 201+07.28 =
-Y32- POT Sta. 14+61.86
-Y33- POT Sta. 13+44.42

-BY33- 154

-L- POC Sta. 208+50.14 =
-Y34- POT Sta. 14+62.33

-L- PT Sta. 209+35.49

END CONSTRUCTION
-Y33- STA. 11+82.00
GRADE TO TIE

-Y33- STA.11+10.00
END PAVEMENT

-L-
PI Sta 205+18.96
Δ = 56° 21' 11.7" (RT)
D = 6° 09' 39.0"
L = 914.70'
T = 498.17'
R = 930.00'
SE = 04
RO = 200'

2012 ADT
2032 ADT
-Y34- WALNUT CREEK ROAD (SR 1750)

-L- PINEY GREEN ROAD (SR 1406)

19728 / 27808	1400 / 1400	1500 / 1500	19828 / 27908

MATCH TO SHEET 17 -L- STA. 198+00.00

MATCH TO SHEET 19 -L- STA. 212+00.00

SEE SHEET 2-K FOR DITCH DETAIL
SEE SHEET 2-S FOR -L- & -Y34- INTERSECTION DETAIL
SEE SHEET 40 FOR -L- PROFILE
SEE SHEET 53 FOR -Y32- & -Y33- PROFILES
SEE SHEET 54 FOR -Y34- PROFILE

REVISIONS

8/17/99

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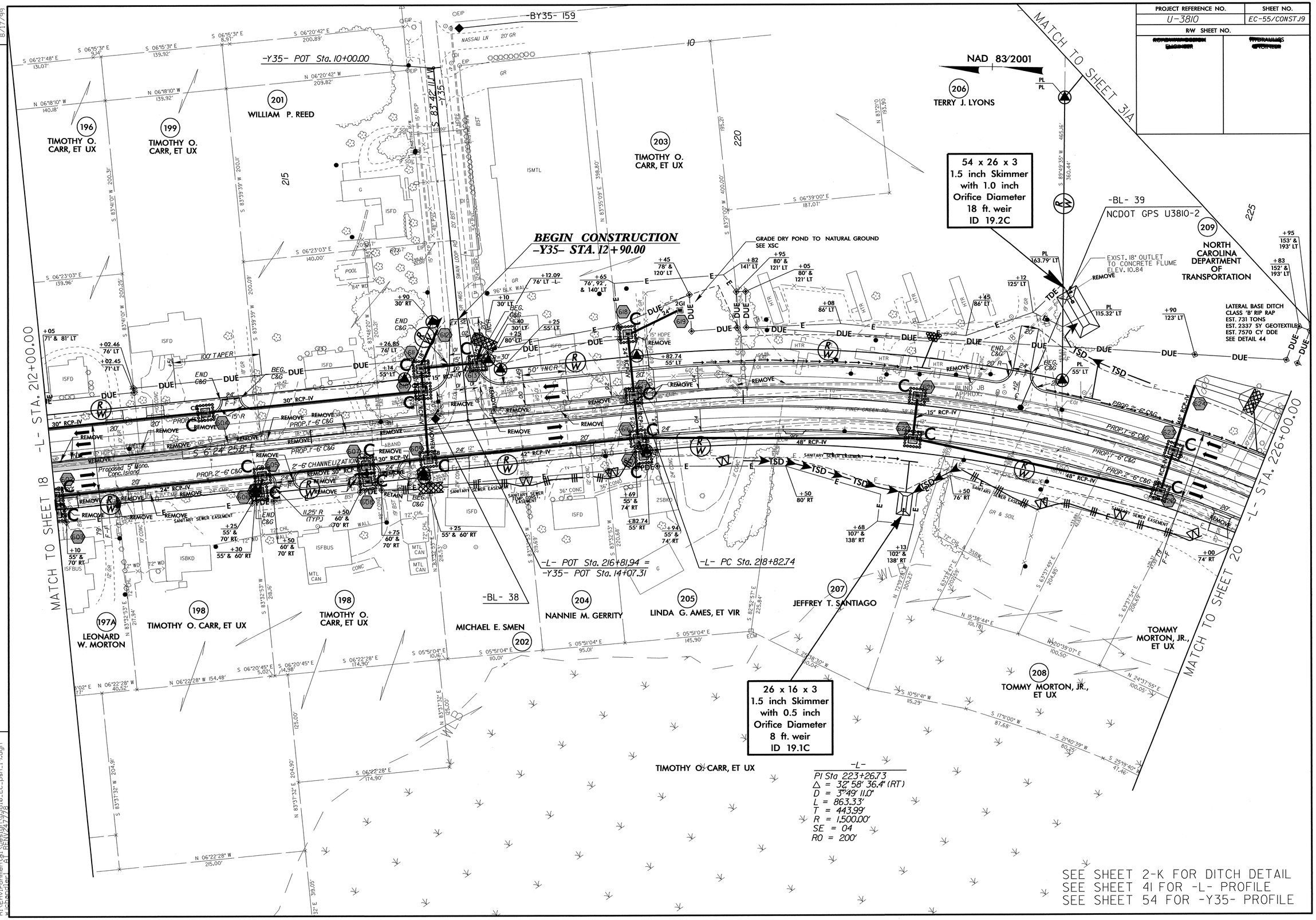
PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-55/CONST.19
R/W SHEET NO.	
[redacted]	[redacted]



SEE SHEET 2-K FOR DITCH DETAIL
SEE SHEET 41 FOR -L- PROFILE
SEE SHEET 54 FOR -Y35- PROFILE

REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-56/CONST.20
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS 8/17/99

MATCH TO SHEET 31A

MATCH TO SHEET 19 -L- STA. 226+00.00

MATCH TO SHEET 21 -L- STA. 240+00.00

NAD 83/2001

2012 ADT
2032 ADT

-L- PINEY GREEN ROAD (SR 1406)

19828 / 27908 — 20228 / 28308

200 / 200 — 600 / 600 — 800 / 800

-Y36- EAST CAROLE DRIVE (SR 1453)

138 x 45 x 3
2.5 inch Skimmer
with 2.25 inch
Orifice Diameter
37 ft. weir
ID 20.1F

37 x 18 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
10 ft. weir
ID 20.1C

209 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

210 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

211 ANNETTE C. MCKNIGHT, ET VIR

215 MCLARRY J. HUMPHREY HEIRS

208 TOMMY MORTON, JR., ET UX

212 CECIL C. MORTON, ET AL

PERMANENT WETLAND MITIGATION AREA

-BL- 40

-BL- 41

-L2- PT Sta. 233+22.17

BEGIN BRIDGE
-L- STA 233+71.50

END BRIDGE
-L- STA 234+96.50

BRIDGE #121 OVER LITTLE NORTHEAST CREEK
STATE PROJECT REF. NO. 8.2260401
CONC BENTS, PILINGS, SEATS, GUARDRAILS,
DECK COVERED WITH ASPHALT

-L2- PC Sta. 235+43.81

-L- POT Sta. 235+99.17 =
-Y36- POT Sta. 10+00.00

-L2- PT Sta. 238+04.72 =
-L2- POC Sta. 238+04.20
(23.50' LT)

-L- PC Sta. 237+83.33

-L- PT Sta. 227+46.07

-L2- PC Sta. 230+39.32 =
-L- POT Sta. 230+39.32
(23.50' LT)

-L2- POC Sta. 235+95.72 =
-Y36- POT Sta. 10+26.12

END CONSTRUCTION
-Y36- STA. 11+24.00

-Y36- POT Sta. 12+07.39

PROPERTY LINE ALONG RUN OF LITTLE NORTHEAST CREEK

LITTLE NORTHEAST CREEK

RETAIN EXISTING BRIDGE

LATERAL BASE DITCH
CLASS 'B' RIP RAP
EST. 731 TONS
EST. 2337 SY GEOTEXTILE
EST. 7570 CY DDE
SEE DETAIL 44

CLASS 'B' RIP RAP
EST. 2 TONS
EST. 7 SY GEOTEXTILE

CLASS 'B' RIP RAP
EST. 1 TONS
EST. 5 SY GEOTEXTILE

CLASS 'II' RIP RAP
(STRUCTURE PAY ITEM)

TOE PROTECTION
SEE DETAIL 45

CLASS 'B' RIP RAP
EST. 3 TONS
EST. 11 SY. GEOTEXTILE

DUE

GRAU 350 TI

PROP.2'-6" C&G

PROP.1'-6" C&G

TAU 350

REMOVE EXISTING GUARDRAIL

REM.EX. GRAIL

REMOVE

RETAIN

Conv. DI TO JB w/MH

Conv. DI TO JB w/MH

SANITARY SEWER EASEMENT

SANITARY SEWER TEMP. CONST. EASEMENT

ISMTLBUS

ISBLK BUS

ISBK APT

ISBKD

-L- S 26° 34' 10.6" W

-L2- S 26° 34' 10.6" W

S 63°38'38" E 223.64'

S 65°29'04" W 256.49'

S 66°45'32" W 106.64'

N 83°22'28" W 100.01'

S 67°08'58" W 37.95'

S 72°01'03" W 84.08'

N 63°37'59" W 206.68'

N 63°37'59" W 206.70'

N 63°37'47" W 206.75'

N 26°22'13" E 100.00'

S 25°19'40" W 57.22'

S 26°12'50" W 42.77'

S 26°12'50" W 100.08'

S 26°12'50" W 507.85'

N 55°57'40" W 130.09'

N 63°37'59" W 228.43'

S 33°28'38" E 158.54'

N 59°48'49" E 182.17'

N 54°17'57" E 111.01'

S 00°59'44" W 191.26'

S 36°28'53" E 106.83'

-BY36- 162

-L-

PI Sta 223+26.73	PI Sta 243+14.57
Δ = 32° 58' 36.4" (RT)	Δ = 55° 57' 30.2" (LT)
D = 3° 49' 11.0"	D = 5° 43' 46.5"
L = 863.33'	L = 976.66'
T = 443.99'	T = 531.24'
R = 1,500.00'	R = 1,000.00'
SE = 04	SE = 04
RO = 200'	RO = 200'

-L2-

PI Sta 231+10.03	PI Sta 232+51.46	PI Sta 236+74.27
Δ = 1° 00' 46.3" (RT)	Δ = 1° 00' 46.3" (LT)	Δ = 1° 11' 45.4" (LT)
D = 0° 42' 58.3"	D = 0° 42' 58.3"	D = 0° 27' 30.1"
L = 141.42'	L = 141.42'	L = 260.91'
T = 70.71'	T = 70.71'	T = 130.46'
R = 8,000.00'	R = 8,000.00'	R = 12,500.00'
SE = SEE PLANS	SE = SEE PLANS	SE = SEE PLANS

SEE SHEETS 2-F & 2-G FOR BRIDGE SKETCH
SEE SHEET 2-K FOR DITCH DETAILS
SEE SHEET 2-T FOR -L- & -Y36- INTERSECTION DETAIL
SEE SHEET 42 FOR -L- & -L2- PROFILES
SEE SHEET 54 FOR -Y36- PROFILE
SEE SHEETS S-? THRU S-? FOR STRUCTURE PLANS

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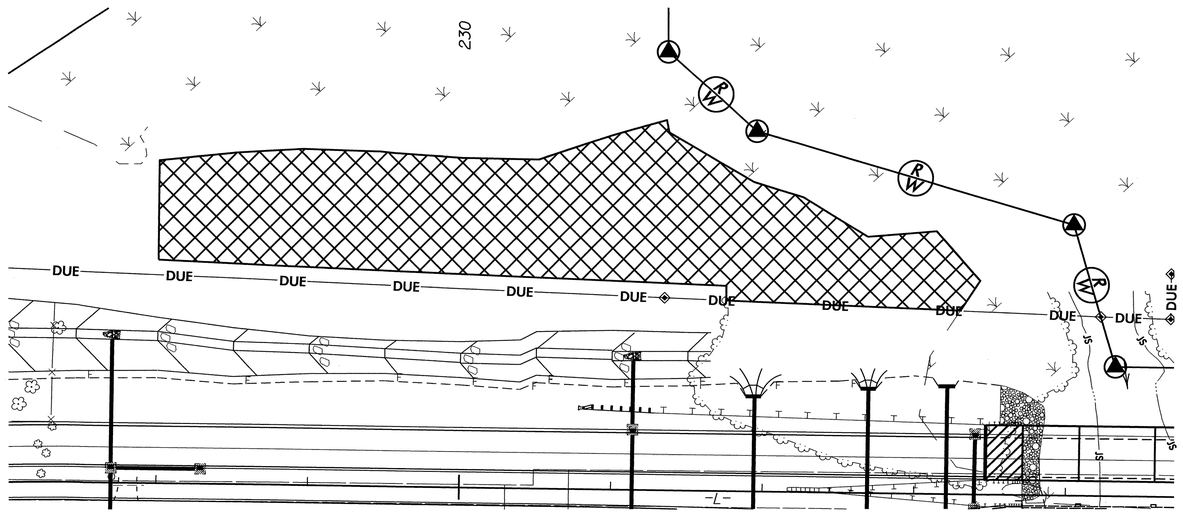
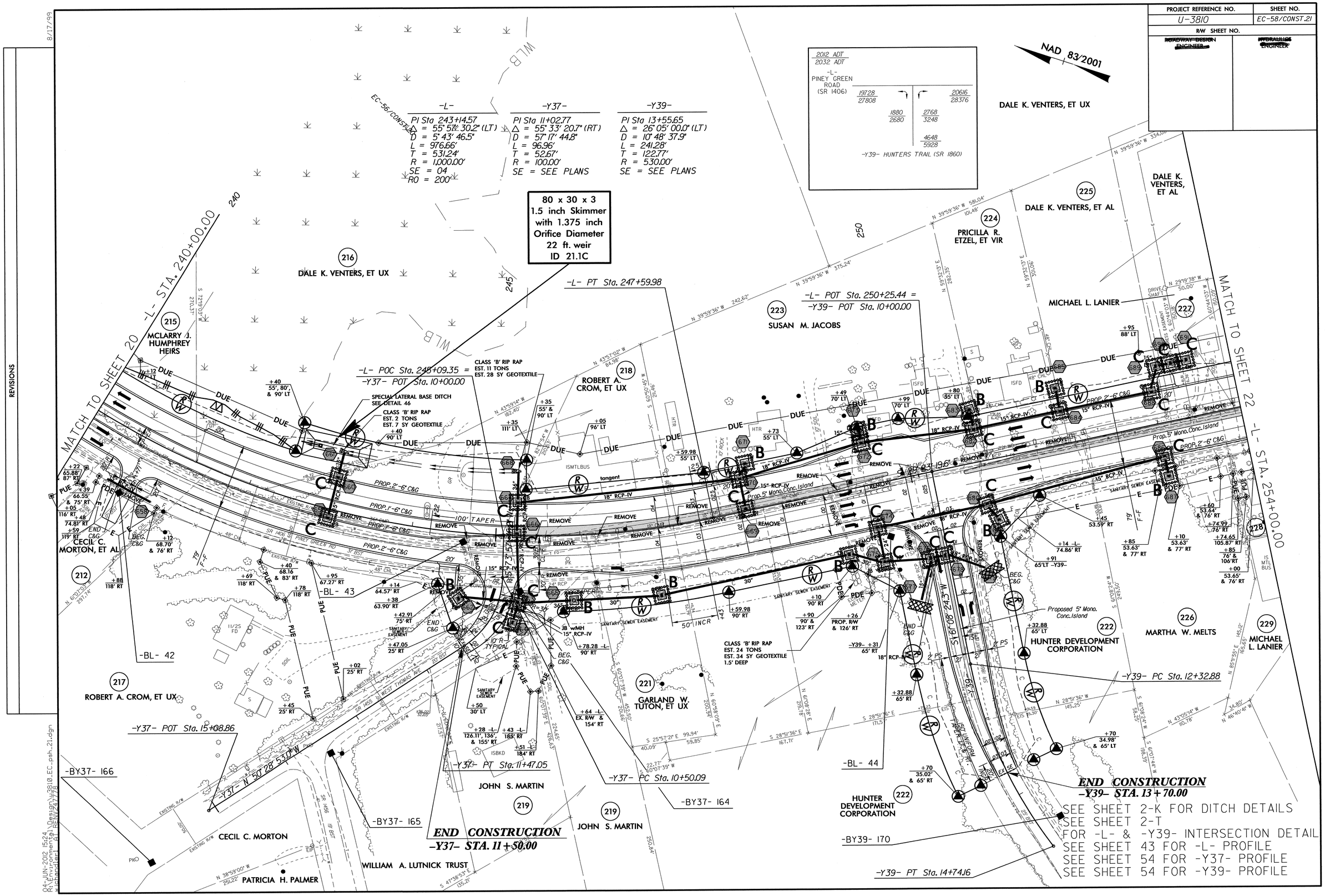
0.91 ACRE STREAMBANK REFORESTATION

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-57/CONST.20
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~



SEE RF–2, RF–3 AND PROJECT SPECIAL PROVISIONS



PROJECT REFERENCE NO.
U-3810
SHEET NO.
EC-58/CONST.21
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
NAD 83/2001
2012 ADT
2032 ADT
-L-
PINEY GREEN ROAD (SR 1406)
19728
27808
20616
28376
1880
2680
2768
3248
4648
5928
-Y39- HUNTERS TRAIL (SR 1860)
-L-
PI Sta 243+14.57
Δ = 55° 57' 30.2" (LT)
D = 5° 43' 46.5"
L = 976.66'
T = 531.24'
R = 1,000.00'
SE = 04
RO = 200'
-Y37-
PI Sta 11+02.77
Δ = 55° 33' 20.7" (RT)
D = 57° 17' 44.8"
L = 96.96'
T = 52.67'
R = 100.00'
SE = SEE PLANS
-Y39-
PI Sta 13+55.65
Δ = 26° 05' 00.0" (LT)
D = 10° 48' 37.9"
L = 241.28'
T = 122.77'
R = 530.00'
SE = SEE PLANS
80 x 30 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
22 ft. weir
ID 21.1C
MATCH TO SHEET 20 -L- STA. 240+00.00
MATCH TO SHEET 22 -L- STA. 254+00.00
-L- PT Sta. 247+59.98
-L- POT Sta. 250+25.44 =
-Y39- POT Sta. 10+00.00
-L- POC Sta. 245+09.35 =
-Y37- POT Sta. 10+00.00
CLASS 'B' RIP RAP
EST. 11 TONS
EST. 28 SY GEOTEXTILE
SPECIAL LATERAL BASE DITCH
SEE DETAIL 46
CLASS 'B' RIP RAP
EST. 2 TONS
EST. 7 SY GEOTEXTILE
CLASS 'B' RIP RAP
EST. 24 TONS
EST. 34 SY GEOTEXTILE
1.5' DEEP
-Y37- POT Sta. 15+08.86
-Y37- PT Sta. 11+47.05
-Y37- PC Sta. 10+50.09
-Y39- PC Sta. 12+32.88
-Y39- PT Sta. 14+74.16
-Y37- N 50° 28' 53.0" W
END CONSTRUCTION
-Y37- STA. 11+50.00
END CONSTRUCTION
-Y39- STA. 13+70.00
SEE SHEET 2-K FOR DITCH DETAILS
SEE SHEET 2-T
FOR -L- & -Y39- INTERSECTION DETAIL
SEE SHEET 43 FOR -L- PROFILE
SEE SHEET 54 FOR -Y37- PROFILE
SEE SHEET 54 FOR -Y39- PROFILE
DALE K. VENTERS, ET UX
DALE K. VENTERS, ET AL
PRICILLA R. ETZEL, ET VIR
MICHAEL L. LANIER
SUSAN M. JACOBS
ROBERT A. CROM, ET UX
MCLARRY J. HUMPHREY HEIRS
CECIL C. MORTON, ET AL
ROBERT A. CROM, ET UX
GARLAND W. TUTON, ET UX
JOHN S. MARTIN
CECIL C. MORTON
WILLIAM A. LUTNICK TRUST
PATRICIA H. PALMER
HUNTER DEVELOPMENT CORPORATION
MARTHA W. MELTS
MICHAEL L. LANIER
-BL- 42
-BL- 43
-BL- 44
-BY37- 166
-BY37- 165
-BY37- 164
-BY39- 170

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-59/CONST.22
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	~~STRUCTURES ENGINEER~~

REVISIONS 8/17/99

ALE K. VENTERS, ET UX

DALE K. VENTERS, ET AL (225)

MICHAEL L. LANIER (227)

MAJORIE T. RIGGS (230)

CHERYL D. LANIER (232)

LEWIS HUMPHREY (234)

PHERBIA CHADWICK

SAUNDRA & LEWIS ALSTON (265)

PATRICIA MADDEN, ET AL (243)

BENJAMIN R. HUMPHREY (238)

SHIRLEY SMITH (228)

MICHAEL L. LANIER (229)

JONES – ONSLOW ELECTRIC MEMBERSHIP CORP. (231)

ALPHANA B. HOBBS (236)

ALVIN R. HOBBS (237)

CARRIE WASHINGTON (239)

HADNOT FARM INVESTMENTS, LLC (240)

BROWN FAMILY REVOCABLE LIVING TRUST, U A D (241)

HADNOT FARM INVESTMENTS, LLC (242)

HERBERT C. HOLLIDAY (244)

HADNOT FARM INVESTMENTS, LLC (235)

MICHAEL BURGESS, ET UX

-BL- 45

-BL- 46

-BL- 47

-BY41- 174

-Y41- POT Sta. 10+00.00

-L- POT Sta. 261+64.49 =
-Y40- POT Sta. 10+00.00

-L- POT Sta. 266+61.57 =
-Y41- POT Sta. 14+40.08

-Y40- POT Sta. 14+29.63

BEGIN CONSTRUCTION
-Y41- STA. 13+00.00

END CONSTRUCTION
-Y40- STA. 11+44.00

-Y41- MARSHALL CHAPEL RD SR 1419

-Y40- MARSHALL RD SR 1221

-L- PINEY GREEN ROAD (SR 1406)

2012 ADT 20616
2032 ADT 28376

-Y41- MARSHALL CHAPEL ROAD (SR 1419)
200 / 200

-L- PINEY GREEN ROAD (SR 1406)
20616 / 28376 — 100 / 100 — 100 / 100 — 20616 / 28376

HEAD DITCH
CLASS 'B' RIP RAP
EST. 52 TONS
EST. 78 SY GEOTEXTILE
EST. 40 CY DDE
SEE DETAIL 48

HEAD DITCH
CLASS 'B' RIP RAP
EST. 19 TONS
EST. 28 SY GEOTEXTILE
EST. 14 CY DDE
SEE DETAIL 48

MATCH TO SHEET 21 -L- STA. 254+00.00

MATCH TO SHEET 23 -L- STA. 268+00.00

SEE SHEET 2-K FOR DITCH DETAIL
SEE SHEET 43 FOR -L- PROFILE
SEE SHEET 54 FOR -Y40- & -Y41- PROFILES

NAD 83/2001

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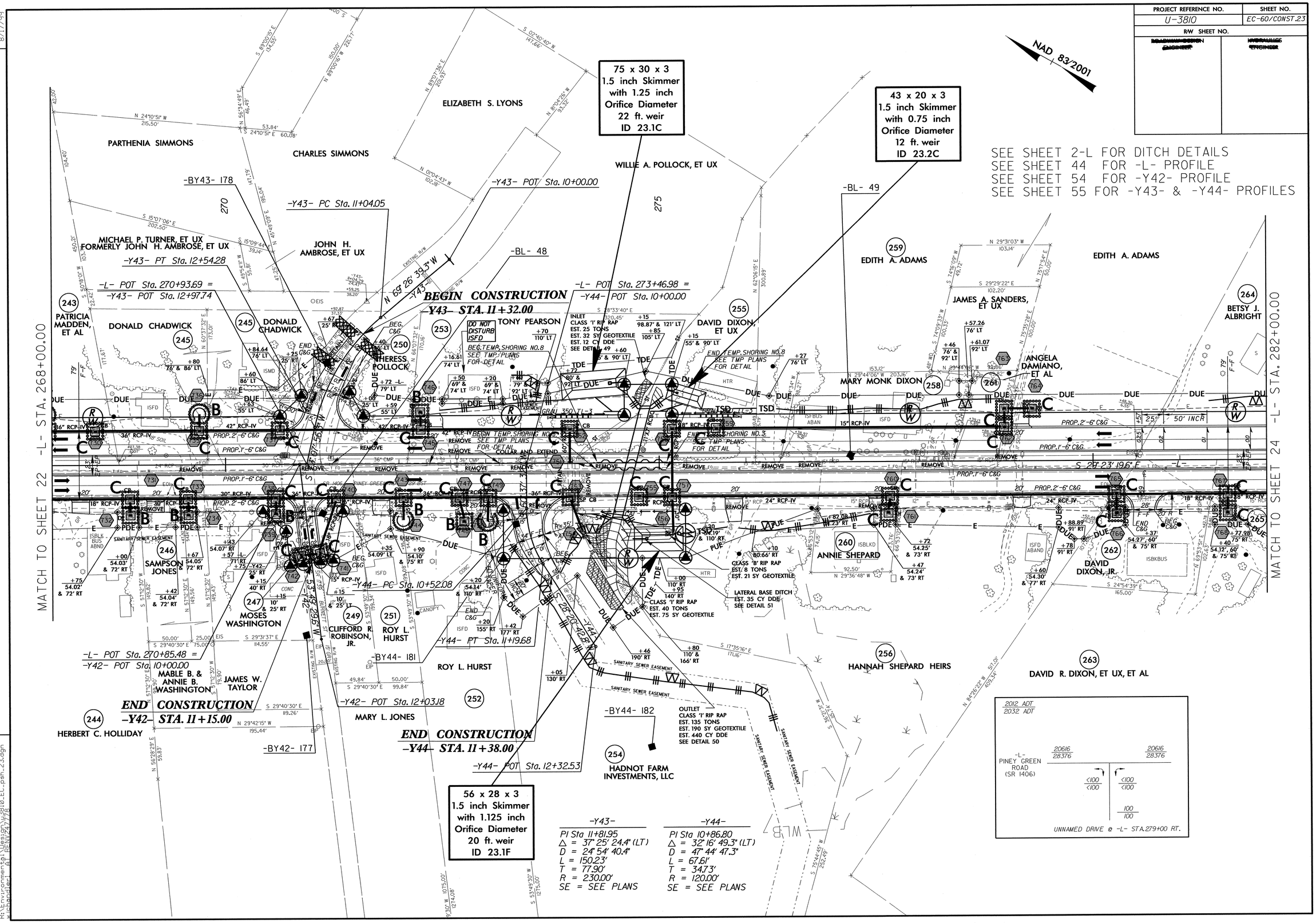
PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-60/CONST.23
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-61/CONST.24
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~

NAD 83/2001

SEE SHEET 2-L FOR DITCH DETAIL
SEE SHEET 44 FOR -L- PROFILE
SEE SHEET 55 FOR -Y45- PROFILE

REVISIONS 8/17/99

-L- STA. 282+00.00

MATCH TO SHEET 23 -L- STA. 283+96 E

MATCH TO SHEET 25 -L- STA. 296+00.00

N 06°34'59" W 33.81'

N 06°34'59" W 199.06'

N 83°26'02" E 509.52'

N 85°55'42" E 403.37'

S 85°55'42" W 806.08'

264 BETSY J. ALBRIGHT

266 TORRIE JONES

271 EDITH ADAMS, ET AL

285

290

295

-BL- 50

-BL- 51

USE ROCK PLATING AT STATION 284+75± -L- TO STATION 286+75± -L- (LEFT) AND EXTEND ROCK PLATING LIMITS TO 2.5:1 (H:V) SLOPE. SEE ROCK PLATING DETAIL SHEET 2-AA.

-L- POC Sta. 287+39.40 = -Y45- POT Sta. 10+00.00

-L- PT Sta. 289+98.27

-L- PC Sta. 282+81.50

-Y45- PC Sta. 10+50.58

-Y45- PT Sta. 10+87.09

-Y45- POT Sta. 11+59.22

END CONSTRUCTION -Y45- STA. 11+10.00

-BY45- 184

-BY46- 186

263 DAVID R. DIXON, ET UX, ET AL

265 EDITH A. ADAMS

267 VANIE PARKER

WILLIAM L. AMBROSE, ET UX

267A BEATRICE J. MORSE

269 CHAD EVERETT FONVILLE

270 MARY FONVILLE

272 EDITH A. ADAMS

273 AMBROSE CEMETERY

274 ROGER MOORE, ET UX

275 ROSA FONVILLE

277 JOHN MOLLETT

278

TAIL DITCH EST. 65 CY DDE SEE DETAIL 52

CLASS 'I' RIP RAP EST. 20 TONS EST. 39 SY GEOTEXTILE

DO NOT DISTURB MOBILE HOME

PROP.2'-6" C&G

PROP.1'-6" C&G

Prop.5' Mono.Conc.Island

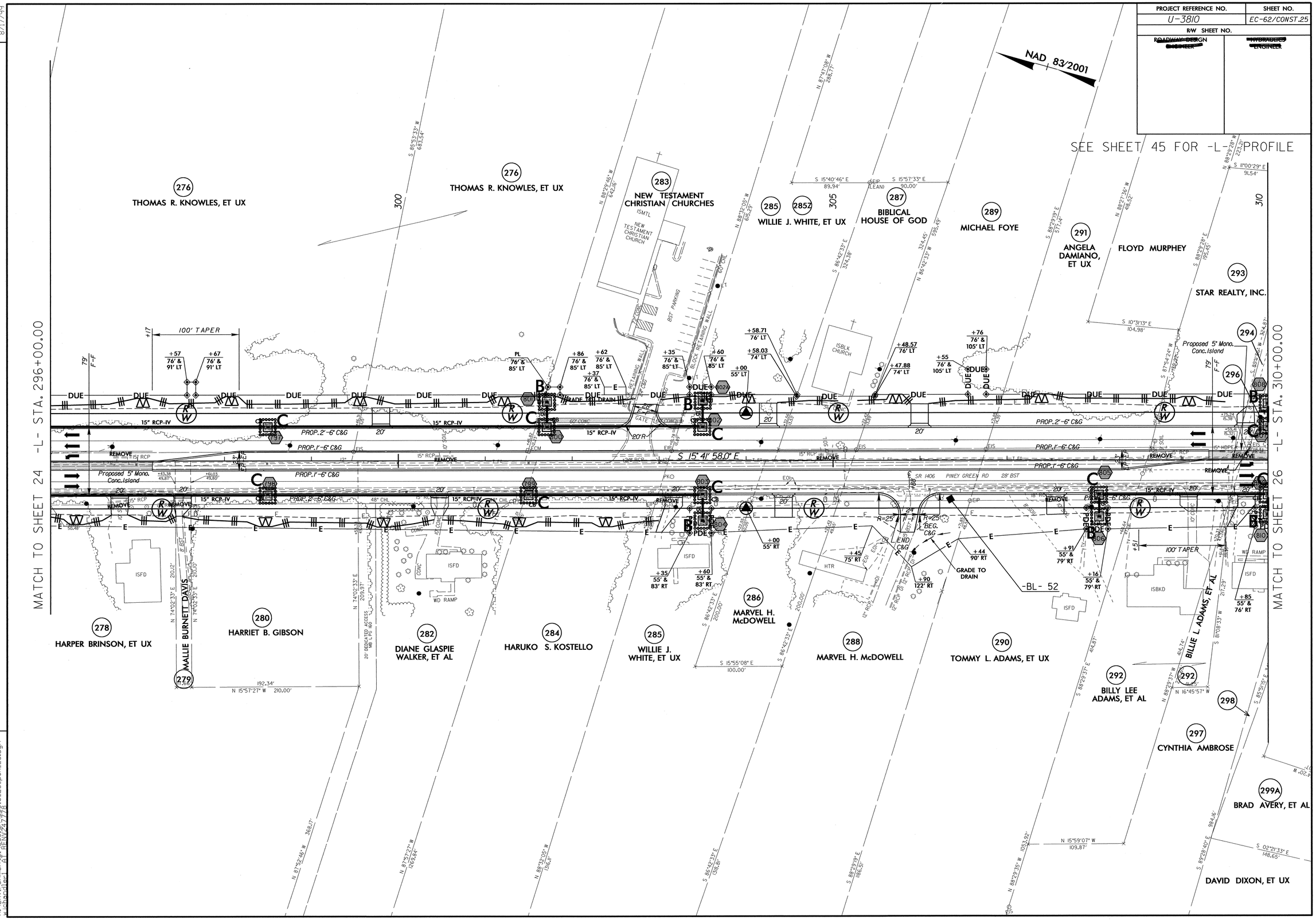
SR 1406 PINEY GREEN RD.

SR 1406 APRICOT

-L-	-Y45-
PI Sta 286+41.60	PI Sta 10+69.16
Δ = 13° 41' 21.6" (RT)	Δ = 26° 08' 50.0" (LT)
D = 1° 54' 35.5"	D = 71° 37' 11.0"
L = 716.77'	L = 36.51'
T = 360.10'	T = 18.58'
R = 3,000.00'	R = 80.00'
SE = 03	SE = SEE PLANS
RO = 150'	

05-JUN-2012 06:58
R:\Environmental\Design\u3810_EC_psh_24.dgn
kchandler1 ALL 24"x36"

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-62/CONST.25
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~



8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-63/CONST.26
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/2001

-Y48-
PI Sta 19+24.09
△ = 84° 38' 19.9" (RT)
D = 17° 54' 17.8"
L = 472.71'
T = 291.38'
R = 320.00'
SE = SEE PLANS

-L-
PI Sta 324+44.05
△ = 15° 07' 57.2" (RT)
D = 1° 54' 35.5"
L = 792.34'
T = 398.49'
R = 3,000.00'
SE = 03
RO = 150'

2012 ADT
2032 ADT

-Y48- ROCKY RUN ROAD (SR 1413) 7940/10340

-L- PINEY GREEN ROAD (SR 1406) 3632/5152 4308/5188 21292/28412 20616/28376

REVISIONS 8/17/99

BEGIN CONSTRUCTION -Y48- STA. 19+20.00

END CONSTRUCTION -Y47- STA. 11+50.00 GRADE TO TIE

MATCH TO SHEET 25 -L- STA. 310+00.00

MATCH TO SHEET 27 -L- STA. 324+00.00

THOMAS L. LITTLETON

CARY ONEAL WHITE

309 THOMAS LITTLETON EASTSIDE AUTO SALVAGE

294 STAR REALTY, INC.

293

296 PATRICIA MILLS

300 SYLVESTER HOWARD, ET UX

302 WILLIAMS FAMILY HEIRS LLC

302 MARIE S. WILLIAMS

RONALD L. SANDERS

310 W. RANDOLPH THOMAS

314 ROBERT J. JONES HEIRS

GEORGE WASHINGTON LIVING HEIRS

317 HORACE L. HAMS

297 298 PHILLIP DEAVER HEIRS

301A

301

303 SHIRLEY M. KEITH & MELVIN L FELTON, JR

304

306 CARY O'NEAL WHITE

307 ANDREW G. ROBERTS, ET UX

312 TRUSTEES OF PROVIDENCE HOLINESS CHURCH

313 ALFRED SHARPLESS, ET UX

316 ALICE H. KOONCE

315 HORACE L. HAMS

299A DAVID DIXON, ET UX, ET AL

299 MILDERD AVERY

298 MOSE L. HAIRSTON, ET UX

DOROTHY L. WRIGHT

311 PAULINE RAY BURTON

-BY48- 187

-BY48- 188

-BY47- 208

-BY47- 209

-Y48- PC Sta. 16+32.72

-Y48- PT Sta. 21+05.43

-L- POT Sta. 313+64.00 = -Y47- POT Sta. 10+00.00

-L- POT Sta. 315+91.47 = -Y48- POT Sta. 23+43.20

-Y47- POT Sta. 12+06.53

-L- PC Sta. 320+45.56

END PAVEMENT -Y47- Sta. 11+00.00

-BL- 53

-BL- 54

END SW +50 TIE TO EX.SW

END C&G +20

BEGIN C&G +15

Proposed 5' Mono. Conc. Island

Prop. 5' Mono. Conc. Island

CLASS 'B' RIP RAP EST. 5 TONS EST. 16 SY GEOTEXTILE

GRADE TO DRAIN (MIN. 0.3%)

100' TRANSITION

188' TAPER

100' TAPER

SR 1413 ROCKY RUN

SR 1886 OLD ROCKY RUN RD

SR 1406 PINEY GREEN RD

S 10° 37' 07.8" E -Y48-

S 15° 41' 58.0" E

N 15°58'11" W 253.75'

N 15°58'14" W 349.70'

S 16°00'40" E 100.00'

N 16°00'40" W 90.00'

N 15°55'08" W 91.00'

S 15°55'08" E 100.00'

N 16°15'08" W 100.00'

N 16°45'08" W 308.00'

S 15°52'35" E 210.00'

N 15°52'35" W 173.22'

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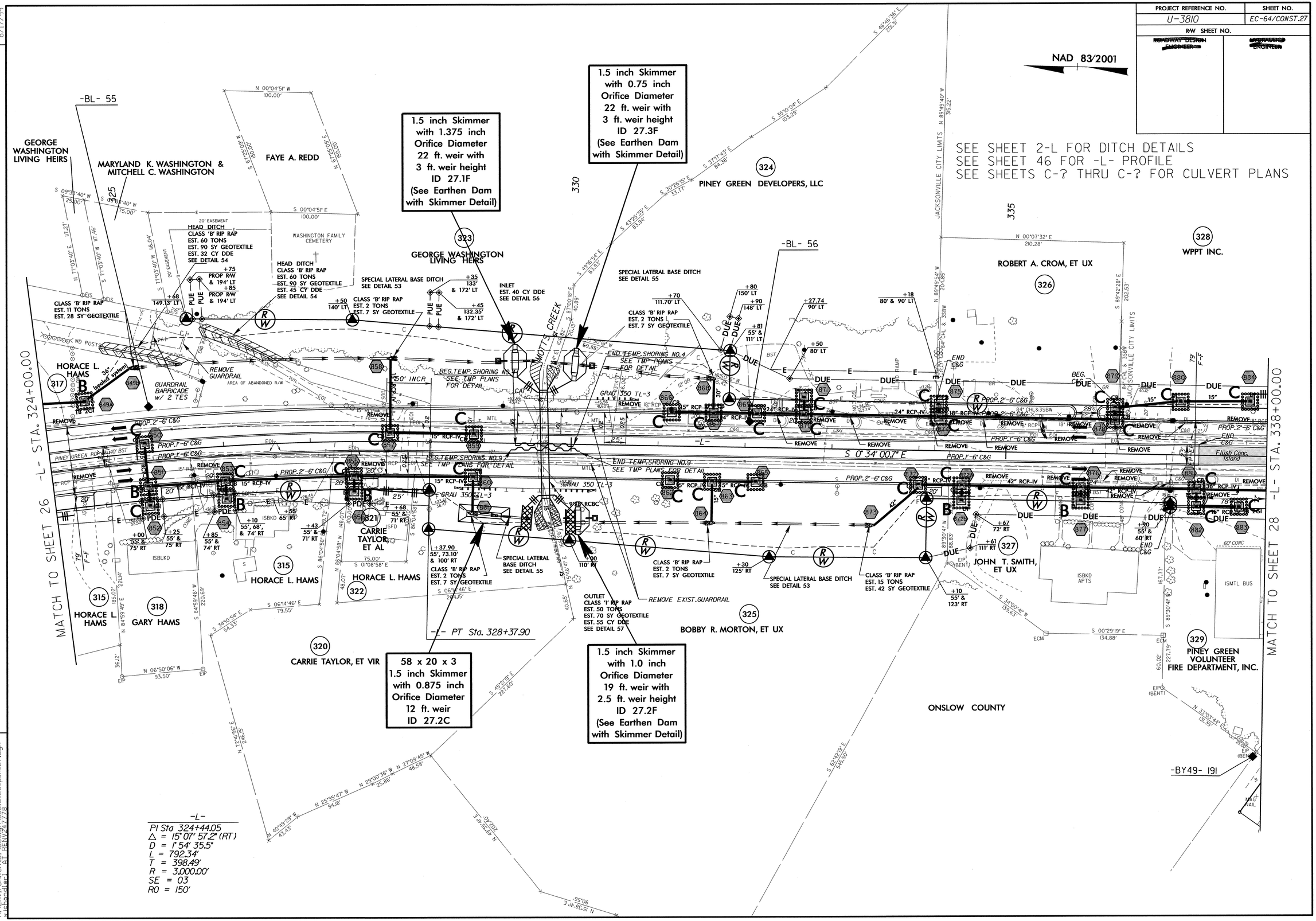
Microstation V8 BENV27.7.2

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-64/CONST.27
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~



REVISIONS

8/17/99

05-JUN-2012 07:07
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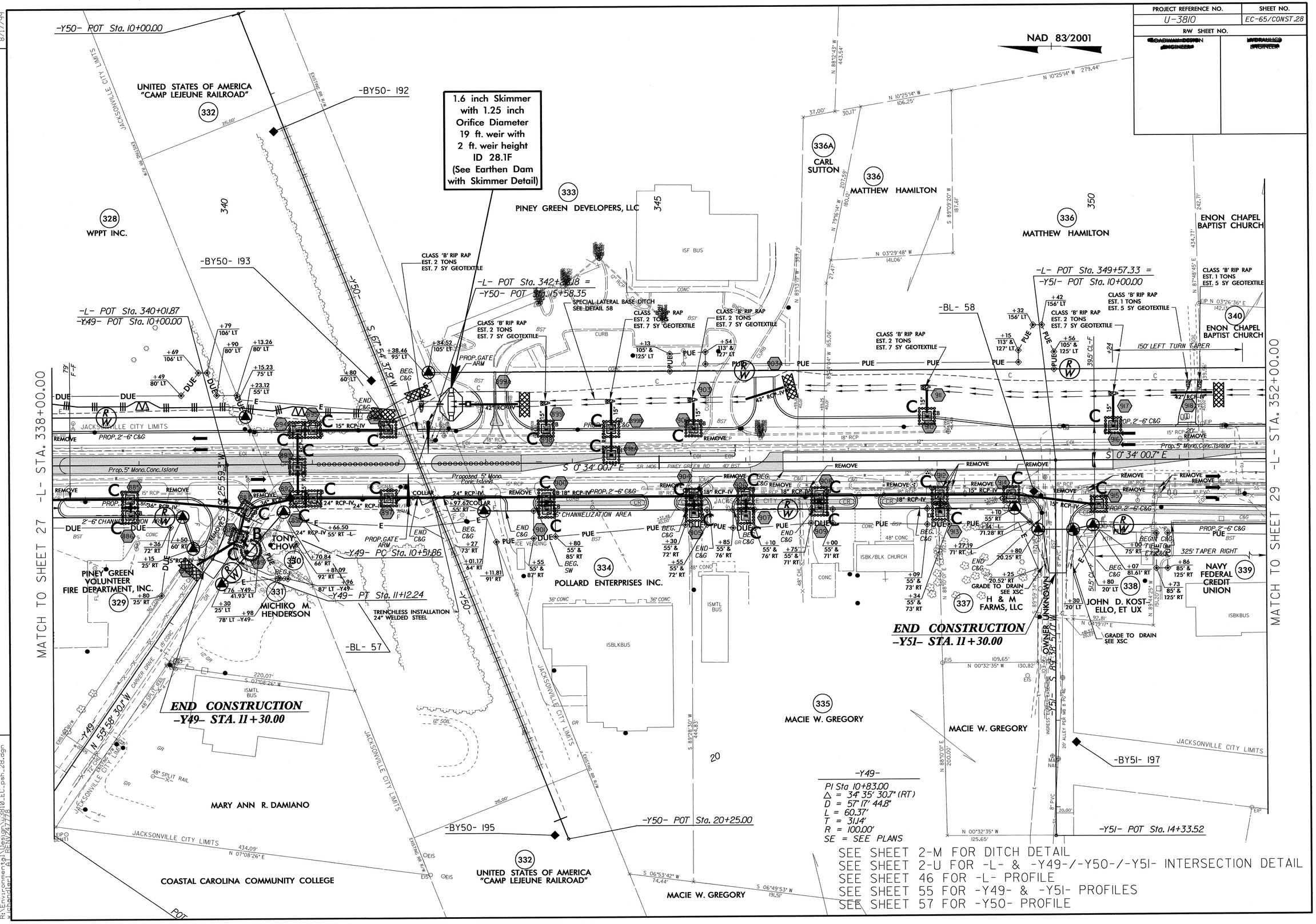
PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-65/CONST.28
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



SEE SHEET 2-M FOR DITCH DETAIL
SEE SHEET 2-U FOR -L- & -Y49-/-Y50-/-Y51- INTERSECTION DETAIL
SEE SHEET 46 FOR -L- PROFILE
SEE SHEET 55 FOR -Y49- & -Y51- PROFILES
SEE SHEET 57 FOR -Y50- PROFILE

REVISIONS

8/17/99

05-JUN-2012 07:11
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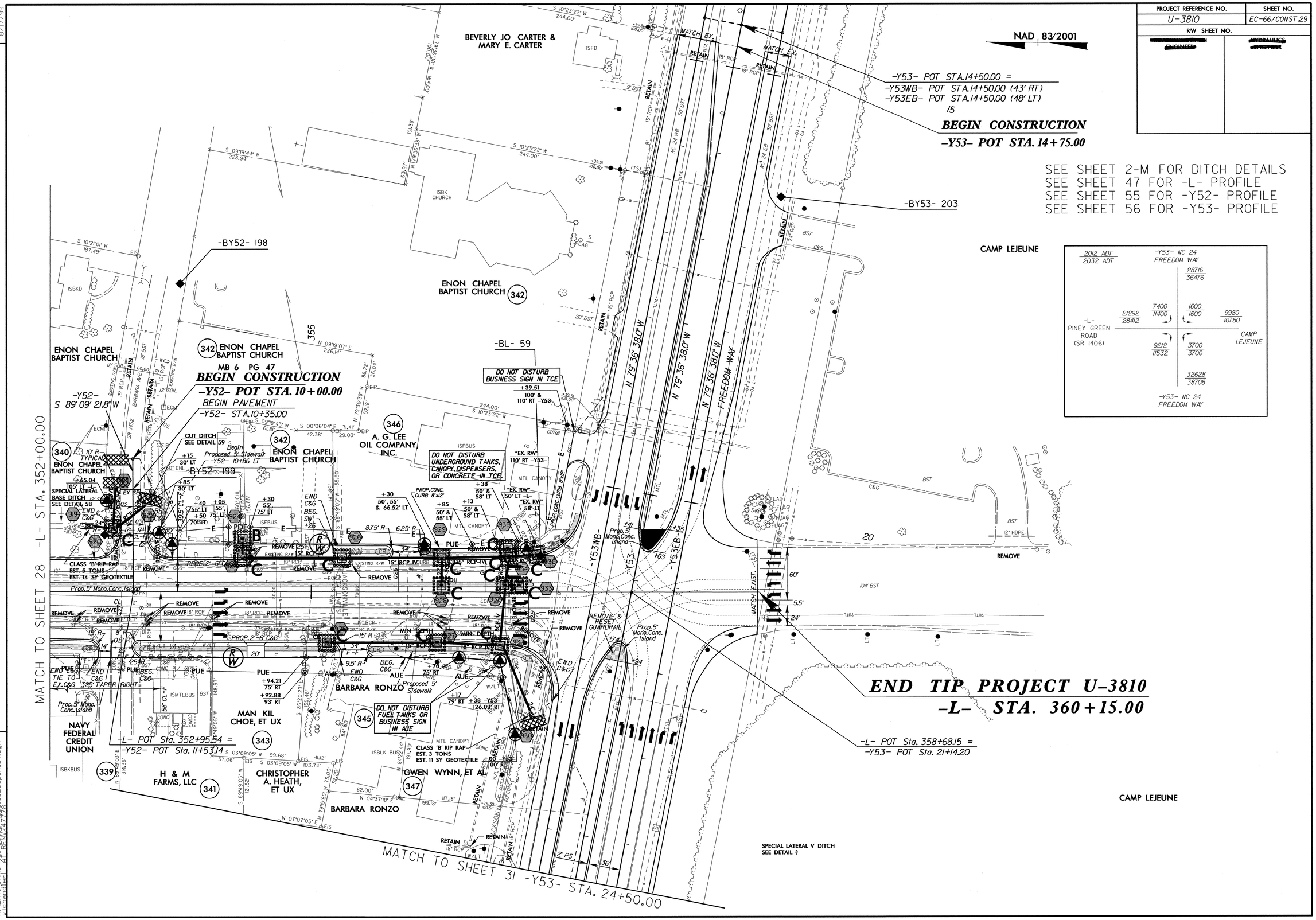
PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-66/CONST.29
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~



REVISIONS

8/17/99

05-JUN-2012 07:14
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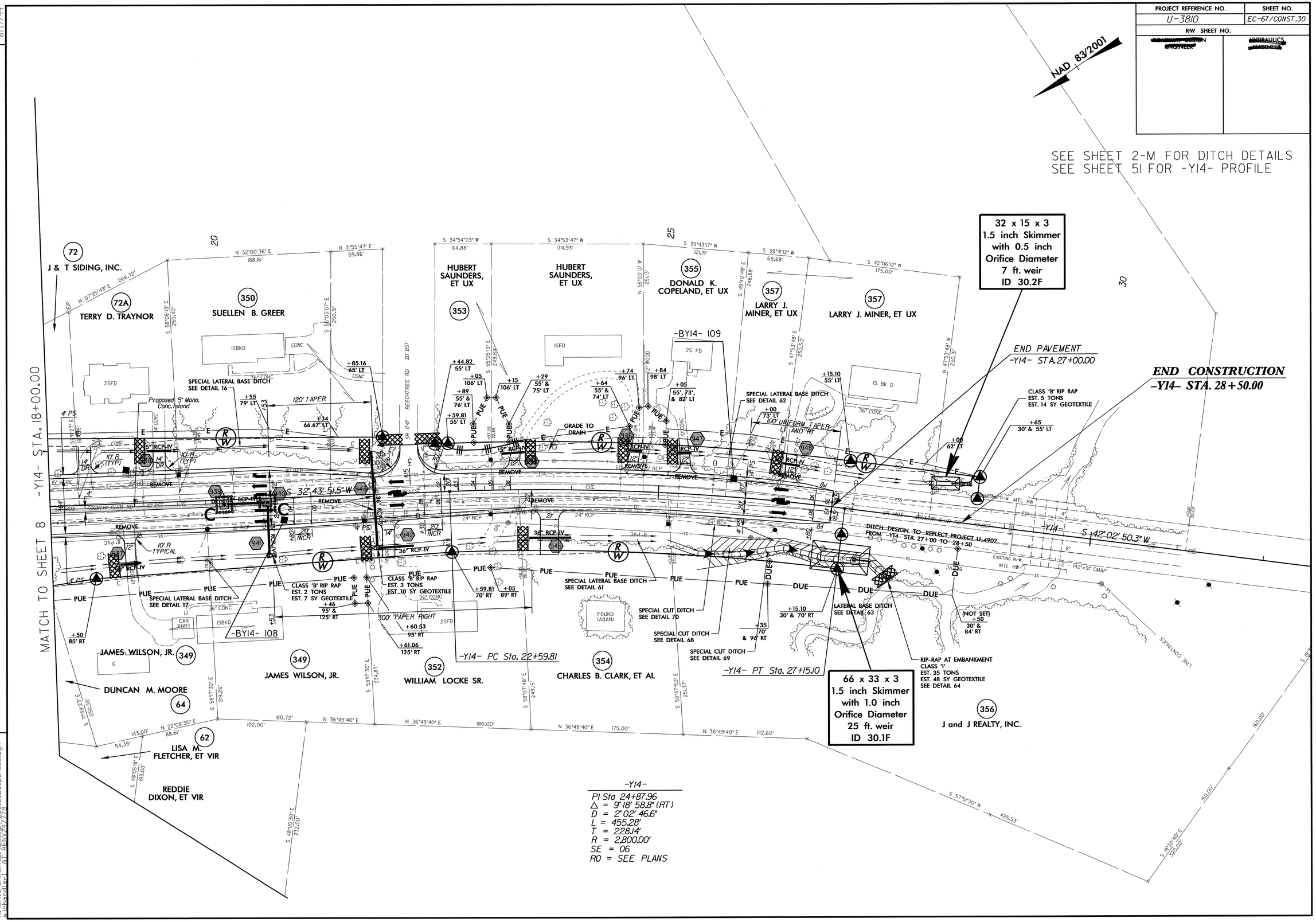
wjohandler1 AT RENV247778

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-67/CONST.30
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~



-Y14-
PI Sta 24+87.96
Δ = 9° 18' 58.8" (RT)
D = 2° 02' 46.6"
L = 455.28'
T = 228.14'
R = 2,800.00'
SE = 06
RO = SEE PLANS

REVISIONS

8/17/99

05-JUN-2012 07:17
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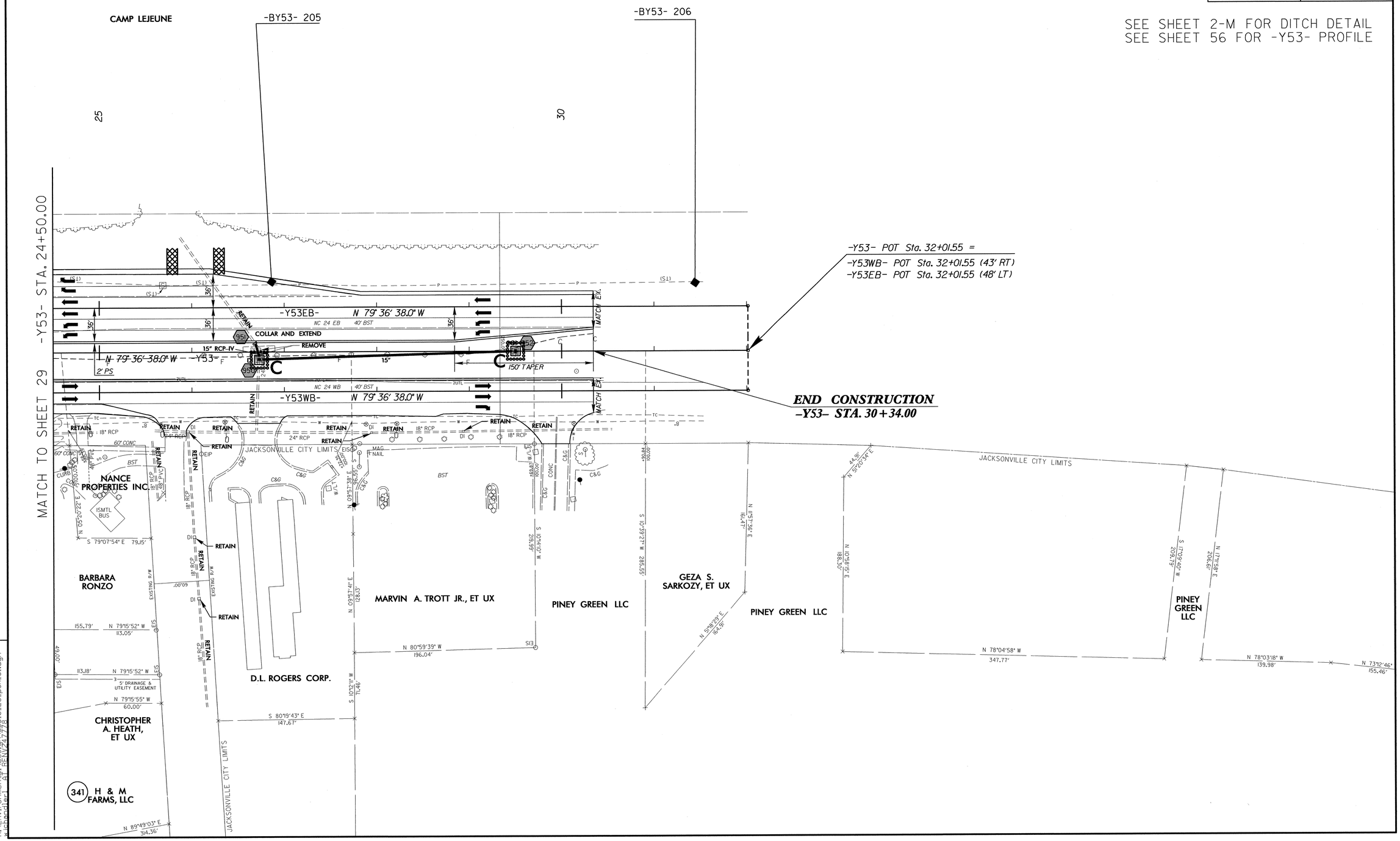
wichandler1 AT RENV247778

PROJECT REFERENCE NO.	SHEET NO.
U-3810	EC-68/CONST.31
R/W SHEET NO.	
~~ROADWAY DESIGN ENGINEER~~	~~HYDRAULICS ENGINEER~~

NAD 83/2001

SEE SHEET 2-M FOR DITCH DETAIL
SEE SHEET 56 FOR -Y53- PROFILE



REVISIONS

8/17/99

05-JUN-2012 08:28
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w_chandler1 AT RENV247778