STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-3819A	EC-1	

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

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

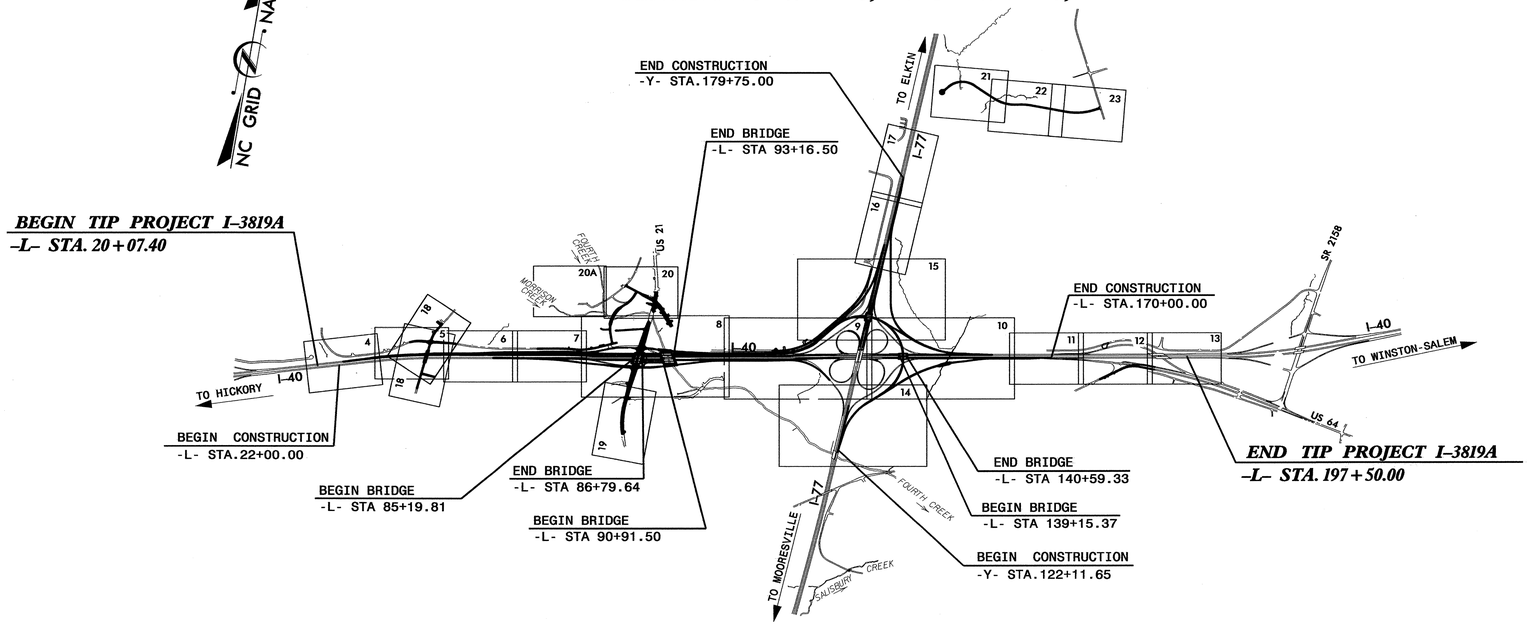
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

IREDELL COUNTY

LOCATION: I–40/I–77 INTERCHANGE INCLUDING I–40 FROM WEST OF SR 2003 (Radio Rd.) TO WEST OF SR 2158 (Old Mocksville Rd.) & I–77 FROM SOUTH OF I–40 TO SOUTH OF SR 2171 (Jane Sower Rd.)

TYPE OF WORK: GRADING, DRAINAGE, PAVING, STRUCTURES, RETAINING WALLS, NOISE WALLS, AND TRAFFIC CONTROL

NAD 83
NC GRID



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	
	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.

TIP PROJECT: I–3819A

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

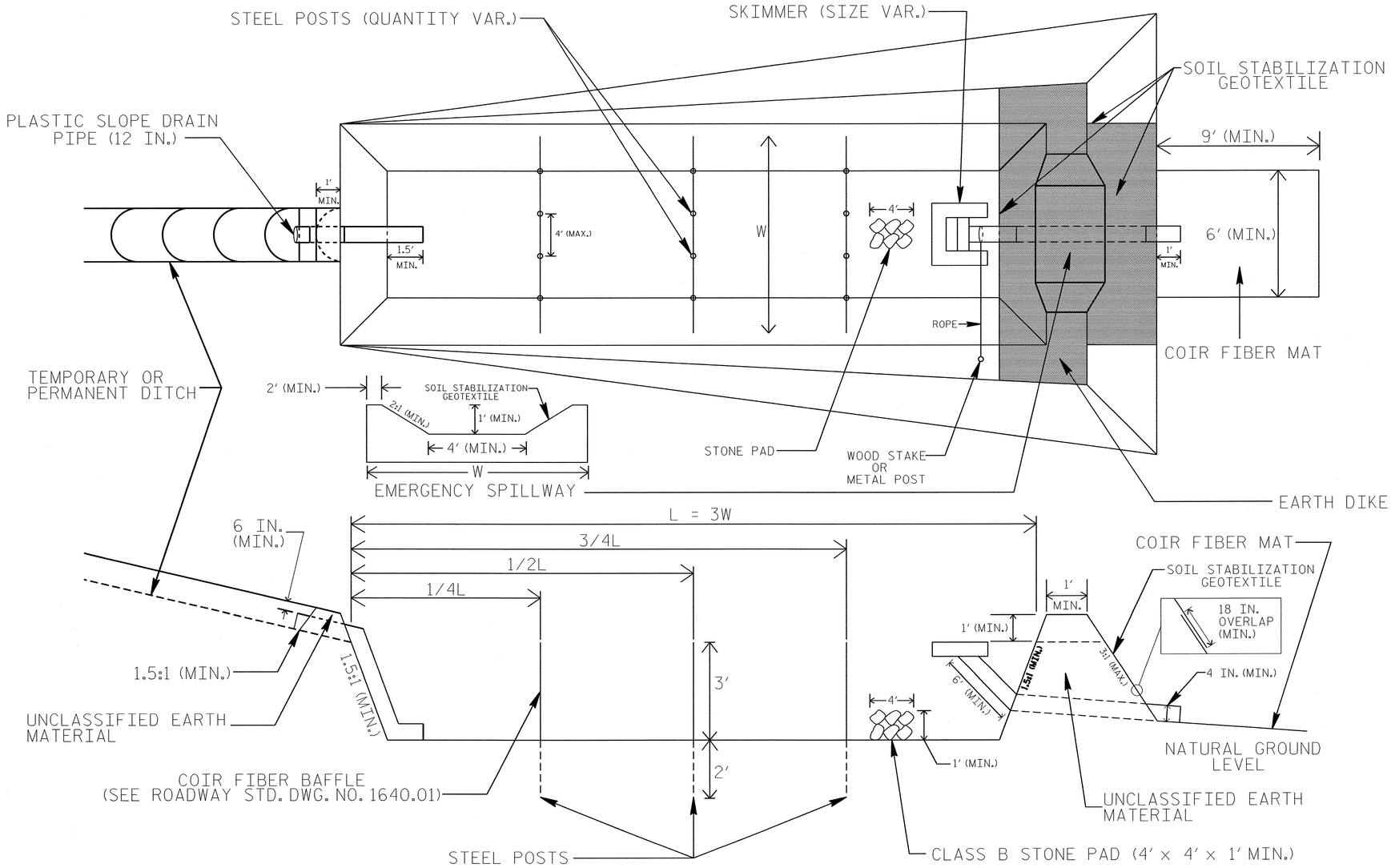
The following roadway english standards as appear in "Roadway Standard Drawings"– Roadway Design Unit – N. C. Department of Transportation – Raleigh, N. C., dated January 2012 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

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		

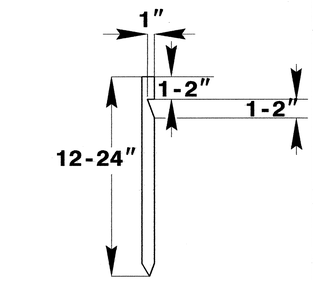
09-NOV-2012 08:07
R:\Environmental\Projects\I-3819A_EC_tsh.dgn
Jgoodwin RT REN24778

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

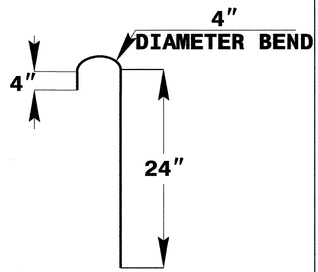
SKIMMER BASIN WITH BAFFLES DETAIL



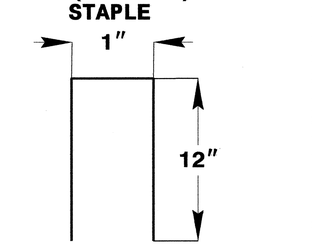
2" x 2" (nominal) WOODEN STAKE



#10 STEEL REINFORCEMENT BAR



1" (nominal) STAPLE



COIR FIBER MAT ANCHOR OPTIONS

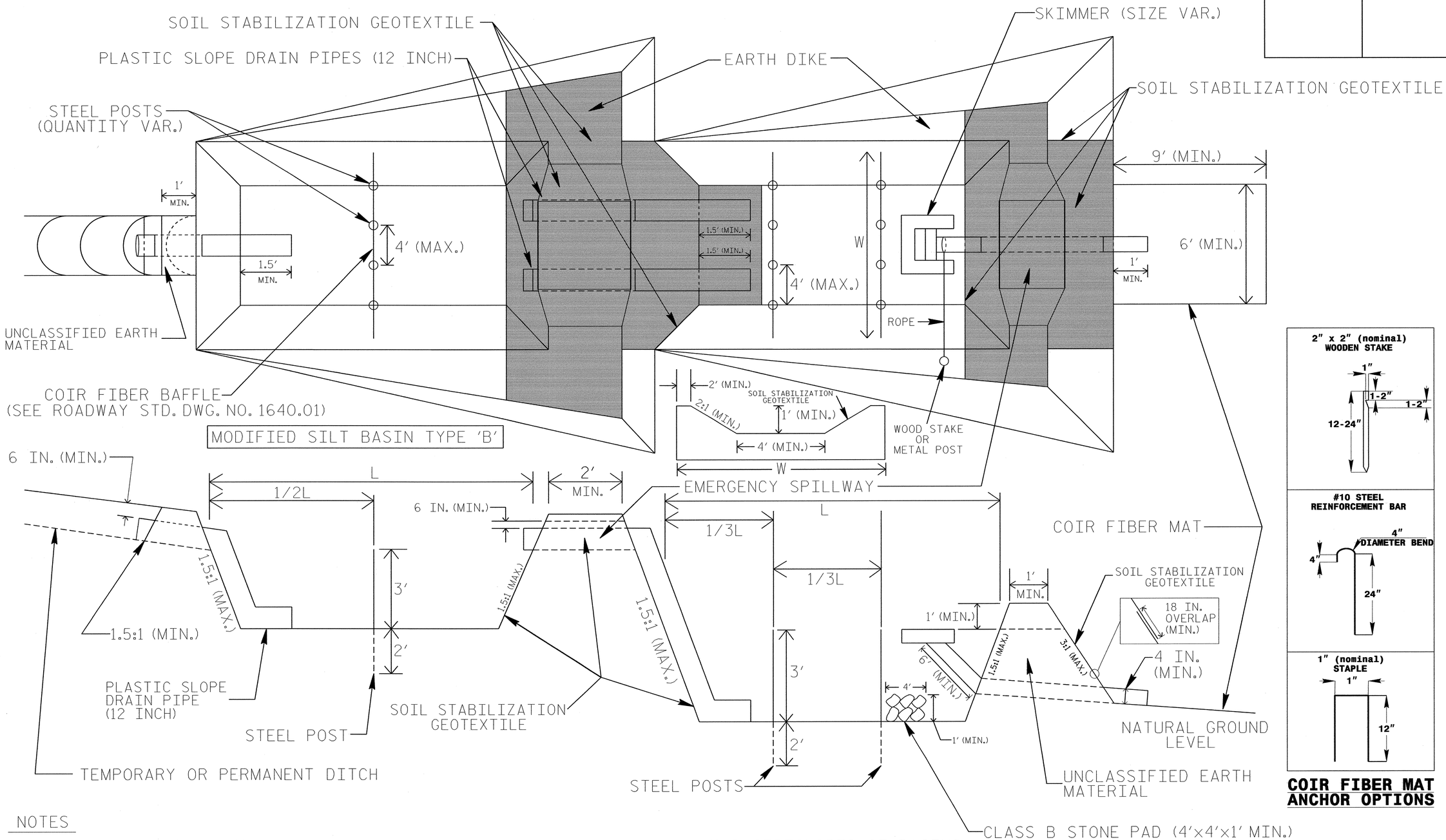
NOTES

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.
I-3819A	EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TIERED SKIMMER BASIN DETAIL



COIR FIBER MAT ANCHOR OPTIONS

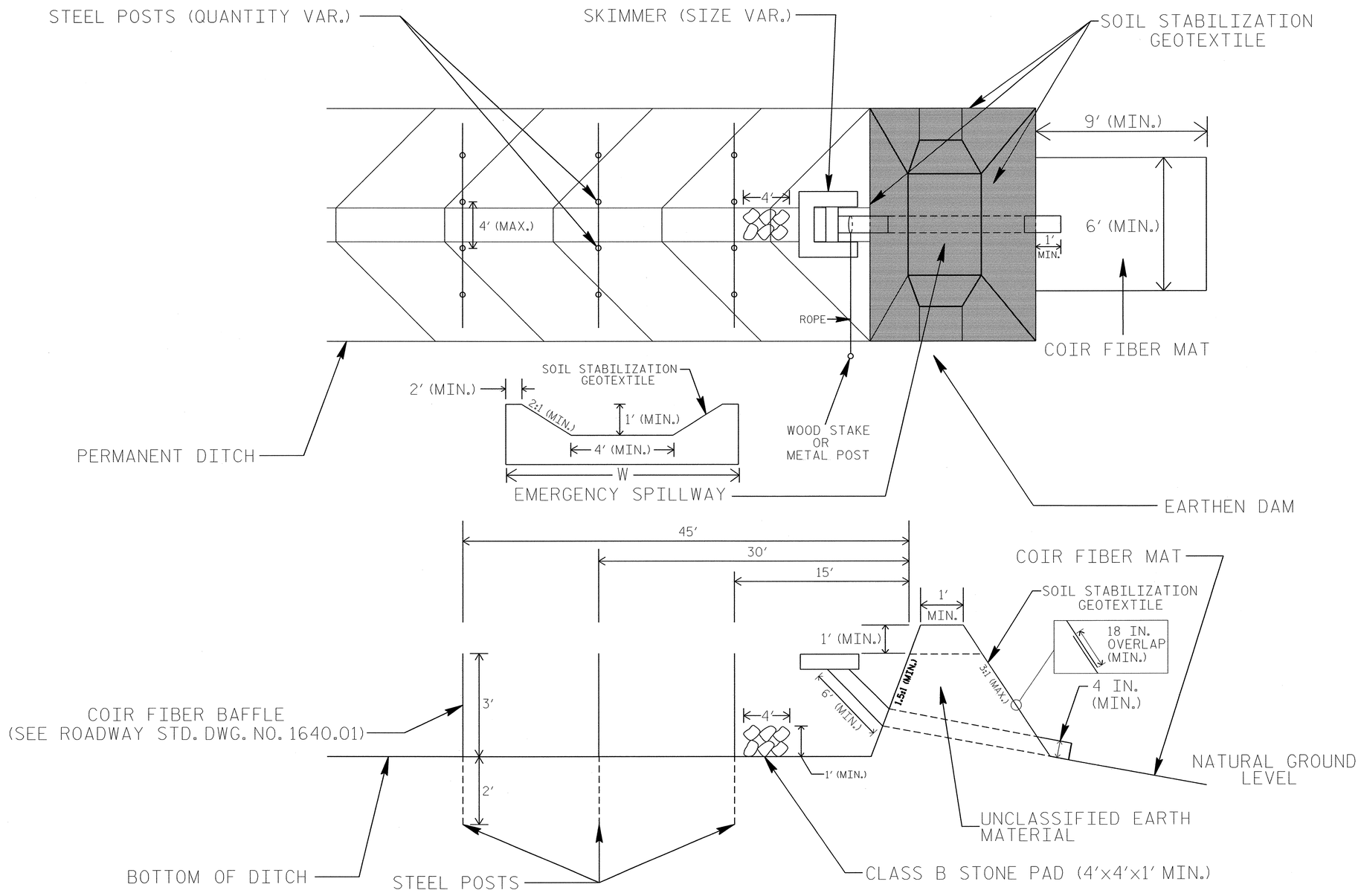
NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES OF BASINS.
2. LIMIT HEIGHT OF EARTH DIKES TO 5 FT.
3. ADDITIONAL MODIFIED SILT BASINS TYPE 'B' MAY BE NEEDED DEPENDING ON SLOPE.
4. FOR BASIN DEPTHS OF 3FT., THE MINIMUM BASIN WIDTHS SHALL BE 9 FT.
5. DETERMINE EMERGENCY SPILLWAY LENGTHS (FT.) USING Q/0.8, WHERE Q IS FLOW RATE (CFS) INTO UPPER BASIN.
6. SOIL STABILIZATION GEOTEXTILE FOR EMERGENCY SPILLWAYS SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

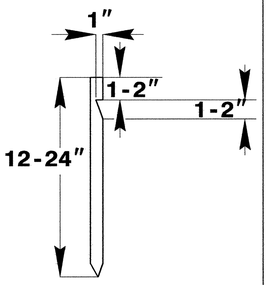
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-2B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

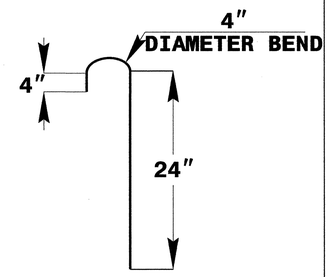
EARTHEN DAM WITH SKIMMER



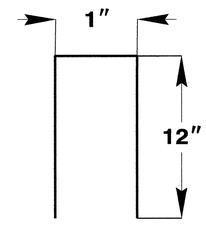
2" x 2" (nominal) WOODEN STAKE



#10 STEEL REINFORCEMENT BAR



1" (nominal) STAPLE



COIR FIBER MAT ANCHOR OPTIONS

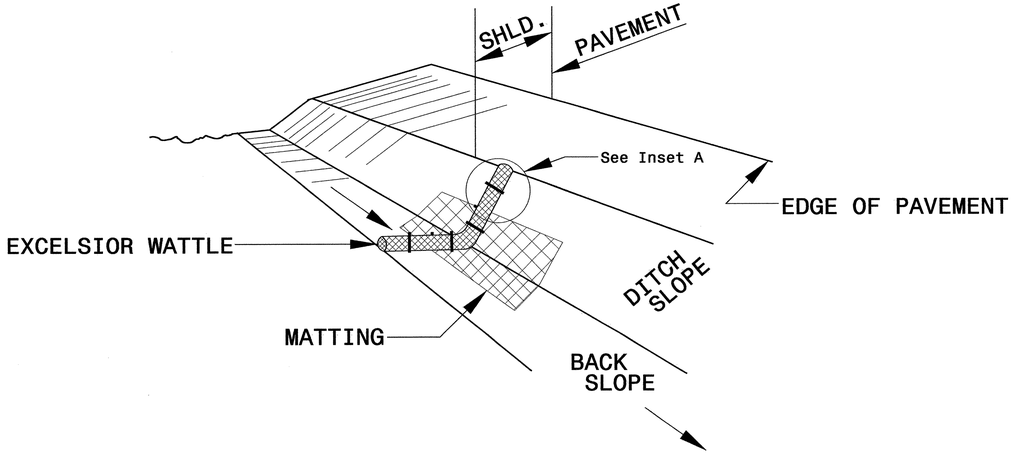
NOTES

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.).

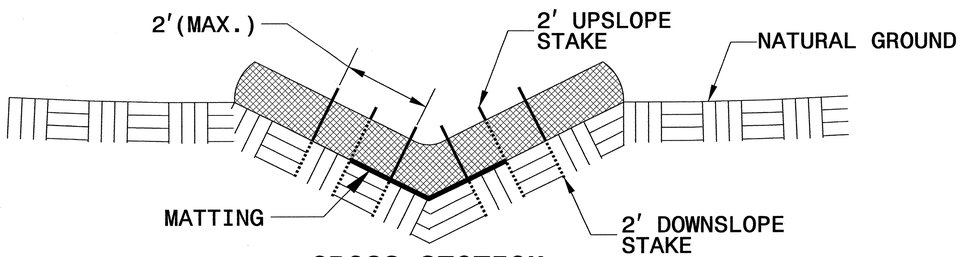
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-2C
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

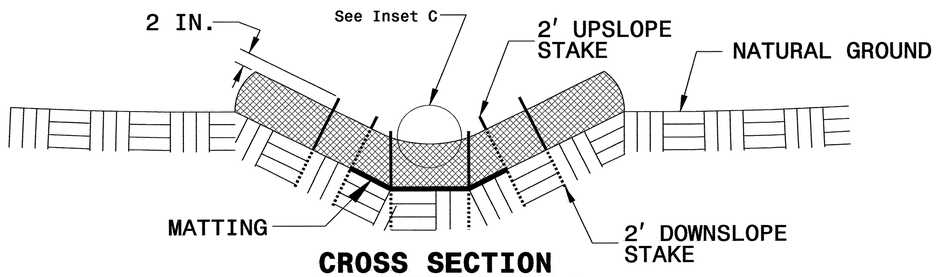
WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR 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.

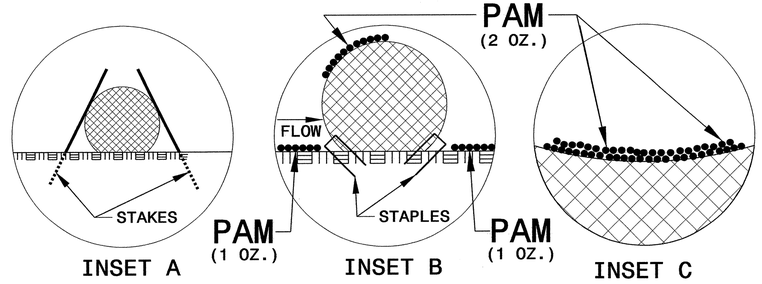
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

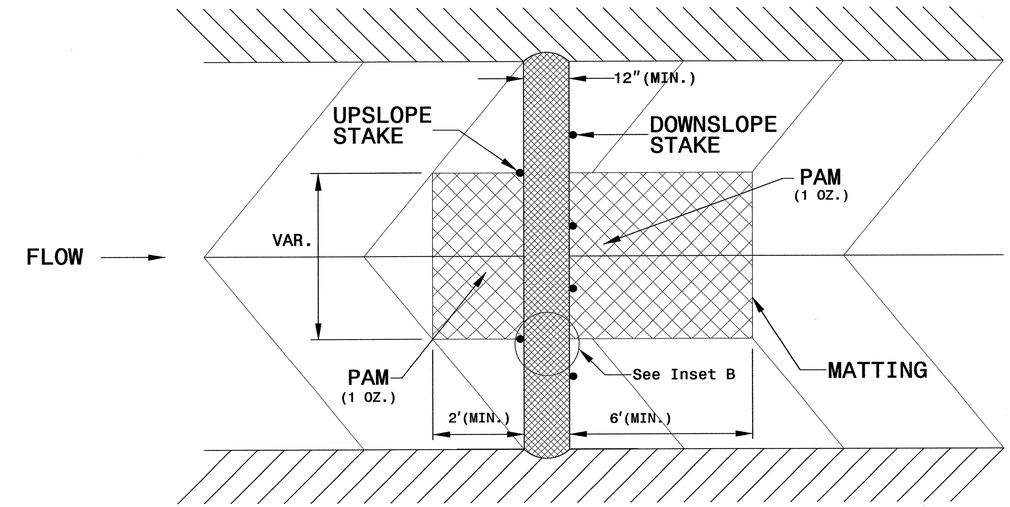
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

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.

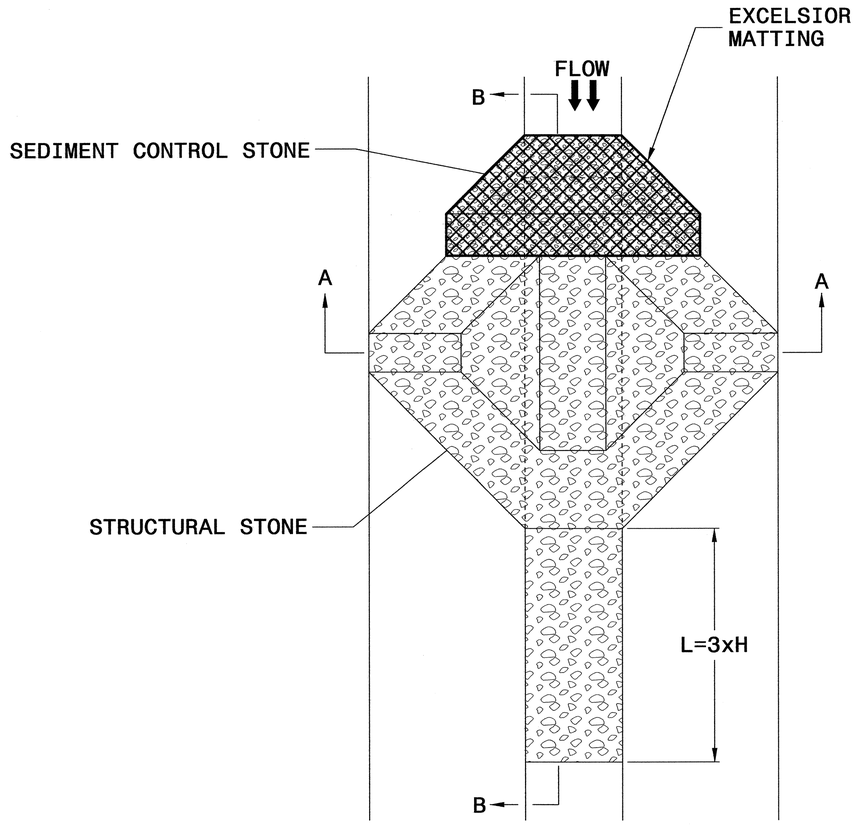




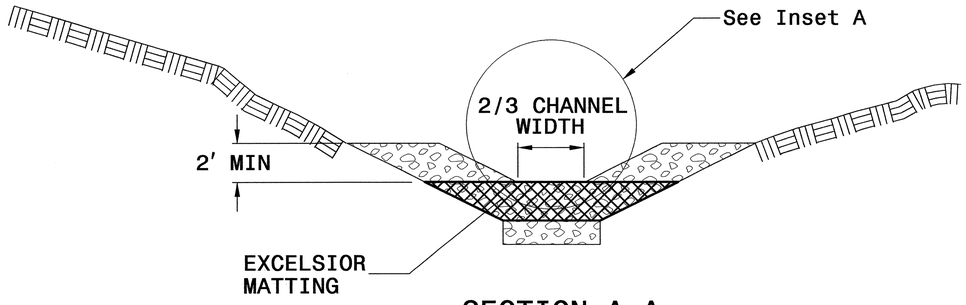
TOP VIEW

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-2D
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)



PLAN



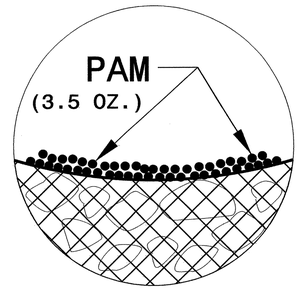
SECTION A-A

NOTES

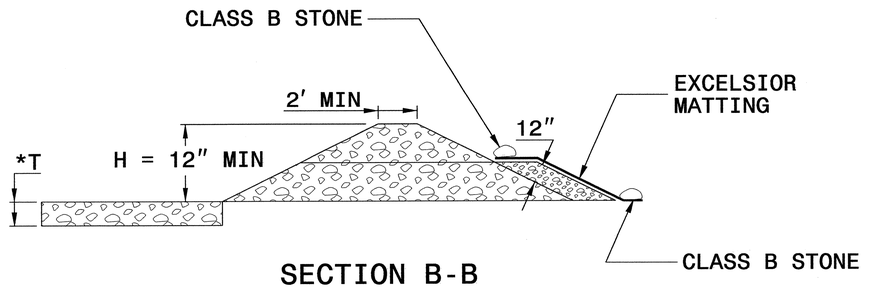
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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 ROCK SILT CHECK.

INITIALLY APPLY 3.5 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION B-B

*T = 12" MIN., 18" MAX.

NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	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)
5	L	36+50	37+00	RT	35
5	L	38+00	46+00	MED	1075
5	L	38+00	49+50	LT	1540
5	Y3	13+50	14+00	RT	60
5	Y3	16+00	17+00	RT	120
6	L	56+50	78+50	MED	3905
6	Y3A	26+55	38+59	RT	1095
6	L	57+50	70+50	RT	2025
7	Y3A	33+05	36+57	LT	400
7	L	72+00	78+50	RT	870
8	L	94+00	94+50	LT	70
8	Y8	10+50	13+50	RT	275
9	L	107+00	126+00	MED	2545
9	Y5	40+03	55+34	LT	1075
9	L	117+00	120+50	LT	470
9	YRPBD	14+77	19+50	RT	535
9	YRPC	16+25	20+00	RT	505
9	Y	144+00	148+00	MED	365
9	Y5	46+42	49+29	LT-BERM	270
9	YRPBD	21+50	24+50	RT	315
10	L	136+00	139+00	MED	340
10	L	136+00	138+00	LT	140
10	L	141+00	157+50	MED	1855
10	YRPAB	15+24	17+71	LT	280
10	L	154+00	157+00	LT	405
10	YRPD	5+87	15+35	LT	1270
10	L	149+50	153+50	RT	540
10	L	164+00	165+50	RT-BERM	75
10	YRPD	6+87	9+36	LT-BERM	205
10	L	159+50	167+50	RT	735

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
10	L	166+00	167+50	RT-BRTM	75
10	YRPBD	49+00	58+15	LT	840
10	YRPBD	49+00	57+28	RT	930
10	YRPAB	20+08	24+92	RT	545
10	YRPAB	20+08	23+32	LT	365
10	YRPA	12+46	20+96	RT	780
10	YRPA	14+59	21+46	LT	775
10	YRPBD	43+50	48+00	LT	605
10	YRPBD	44+50	49+00	RT	510
10	YRPD	19+28	20+24	RT	140
12	Y10A	11+50	17+50	LT	675
15	YRPB	20+03	22+96	RT	395
15	YRPB	20+03	22+96	LT	395
15	Y5	65+93	66+89	LT	90
15	Y5	65+93	66+89	RT	70
15	YRPBD	31+50	32+50	LT	115
15	YRPBD	26+50	29+50	RT	340
15	YRPBD	31+50	41+00	RT	1070
16	Y	165+50	166+50	RT	135
16	YRPA	33+89	36+89	RT	405
16	Y	170+50	179+50	RT	1015
21	SR1	8+50	12+00	RT	245
21	SR1	8+00	12+00	LT	280
22	SR1	19+00	34+00	RT	1015
			SUBTOTAL		35205
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					85590
				TOTAL	120795
				SAY	121000

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-3A

ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

PERMANENT SOIL REINFORCEMENT MAT

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
5	Y3A	11+00	15+50	RT	415
6	L	50+00	53+50	LT	250
6	Y3A	13+00	15+50	LT	335
8	L	79+00	84+00	LT	1125
8	Y4RPB	17+94	21+42	LT	320
10	L	160+50	164+00	RT-BERM	175
10	L	165+50	166+00	RT-BERM	25
10	YRPBD	36+50	41+00	LT	510
10	YRPD	20+71	24+03	RT	455
10	YRPBD	37+00	40+50	RT-BERM	175
10	YRPBD	43+50	44+50	RT	95
14	Y	128+50	131+00	RT	335
15	YRPAB	27+06	30+08	RT	340
15	YRPB	16+50	19+57	RT	280
22	SR1	16+00	22+00	LT	420
23	SR1	28+00	33+50	LT	500
				SUBTOTAL	5755
	ADDITIONAL PSRM TO BE INSTALLED				2140
				TOTAL	7895
				SAY	8000

PERMANENT SOIL REINFORCEMENT MAT

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-3B
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

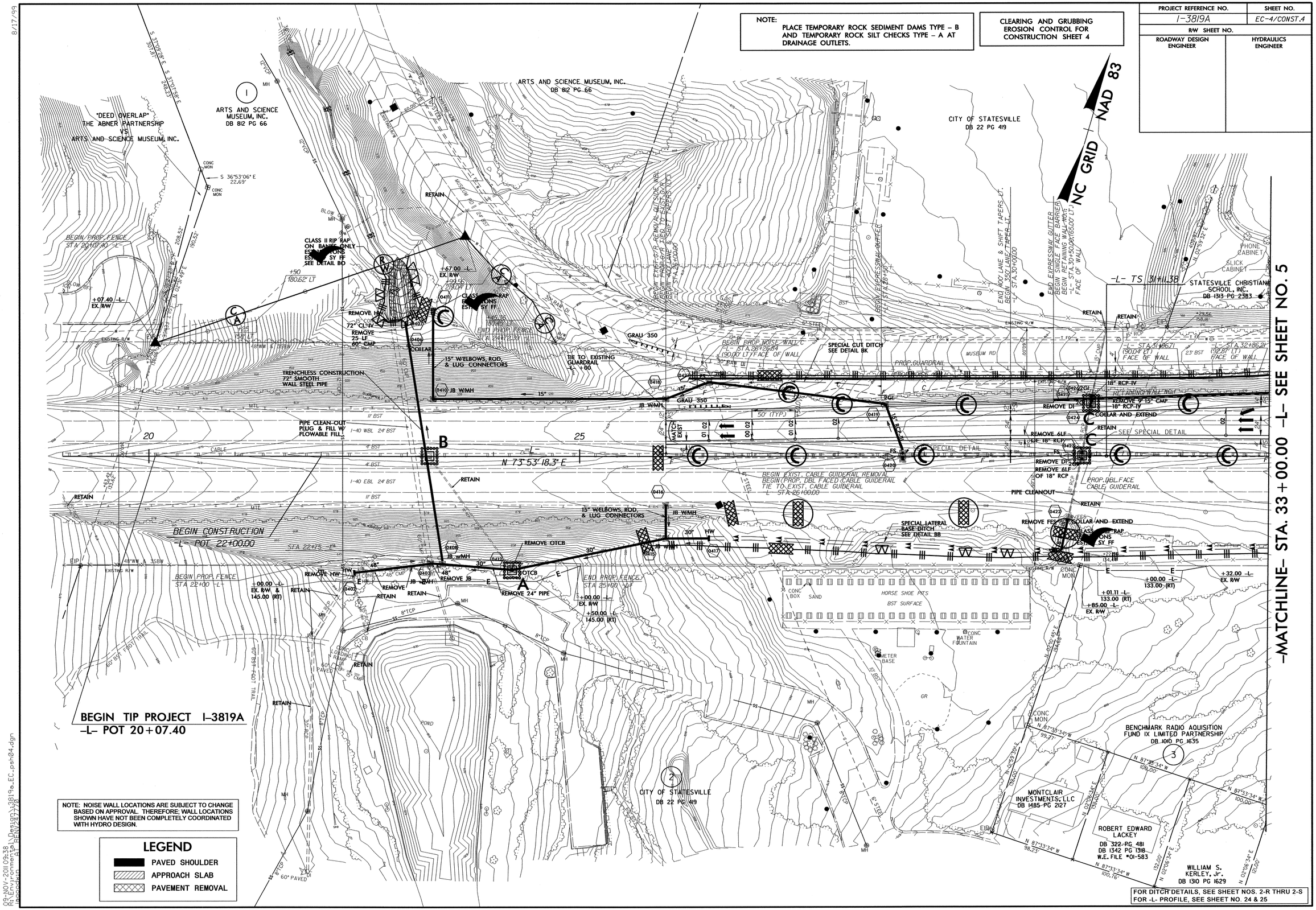
SOIL STABILIZATION TIMEFRAMES

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.
I-3819A	EC-4/CONST.4
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 4



NOTE: NOISE WALL LOCATIONS ARE SUBJECT TO CHANGE BASED ON APPROVAL. THEREFORE; WALL LOCATIONS SHOWN HAVE NOT BEEN COMPLETELY COORDINATED WITH HYDRO DESIGN.

LEGEND

- PAVED SHOULDER
- APPROACH SLAB
- PAVEMENT REMOVAL

FOR DITCH DETAILS, SEE SHEET NOS. 2-R THRU 2-S
FOR -L- PROFILE, SEE SHEET NO. 24 & 25

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-5/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5

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

NC GRID NAD 83

40 x 17 x 3 1.5 inch Skimmer with 0.625 inch Orifice Diameter 9 ft. weir ID 5.1

20 x 10 x 3 1.5 inch Skimmer with 0.25 inch Orifice Diameter 4 ft. weir ID 5.2

–MATCHLINE– STA. 33+00.00 –L– SEE SHEET NO. 4

–MATCHLINE– STA. 47+00.00 –L– SEE SHEET NO. 6

–MATCHLINE– STA. 25+50.00 –Y1– SEE SHEET NO. 18

–MATCHLINE– STA. 18+00.00 –Y1– SEE SHEET NO. 18

STATESVILLE CHRISTIAN SCHOOL, INC. DB 1313 PG 2383

WESTERN AVENUE BAPTIST CHURCH DB 1582 PG 903 "TRACT I"

WESTERN AVENUE BAPTIST CHURCH DB 1582 PG 903 "TRACT III"

STATESVILLE CHRISTIAN SCHOOL, INC. DB 1535 PG 1904

CLAUDIA VIOLA GRAY DB 811 PG 808

BENCHMARK RADIO AQUISITION FUND IX LIMITED PARTNERSHIP DB 1010 PG 1635

SCOTT JACKSON, Jr. DB 720 PG 911

HAZEL M. CARDIN DB 1556 PG 179

KIMBALL, ET. AL'S. DB 625 PG 772 W.E. FILE #02E-134

ROBERT W. ANDERSON DB 1653 PG 351

RICKY D. HIX DB 838 PG 958

BEGIN CONSTRUCTION –Y3– POC 13+20.00

–Y3– POT 10+00.00

–L– SC 33+11.38

–L– STA. 34+64.00 (108.81' LT) FACE OF WALL

END 350' LANE TAPER (LT.)

–L– STA. 33+50.00 (75.56') FACE OF WALL

–L– STA. 35+82.93 (108.73' LT) FACE OF WALL

BEGIN PROP. FENCE STA. 36+96.68 –L–

END PROP. NOISE WALL C –L– STA. 39+08.42 (131.01' LT) FACE OF WALL

–L– STA. 38+19.41 (131.95' LT) FACE OF WALL

–Y1– PC 23+94.75

–Y1– POT 23+54.94 = –Y3– POT 17+59.15 = –Y3A– POT 10+34.69

END 304.4' TAPER (LT.& RT.) –Y3– STA. 16+24.40

–Y3– PT 15+64.17

BEGIN 304.4' TAPER (LT.& RT.) –Y3– STA. 13+20.00

BEGIN 300' TAPER (LT.& RT.) –Y3A– STA. 11+46.00

N 84° 11' 02.9" E

N 55° 35' 36.4" E

N 79° 51' 59" E

–Y3– PC 12+14.88

END APPROACH SLAB –Y1– POT 21+79.21

END BRIDGE –Y1– POT 21+55.08

BEGIN BRIDGE –Y1– POT 19+30.25

BEGIN APPROACH SLAB –Y1– POT 19+06.12

–L– POC 42+97.41 = –Y1– POT 20+40.37

–L– CS 44+25.23

–L– ST 46+25.23

END 300' TAPER (LT.) –L– STA. 45+00.00

BEGIN 300' TAPER (LT.) –L– STA. 42+00.00

END PROP. FENCE STA. 42+42.09 –L–

BEGIN PROP. FENCE STA. 42+85.49 –L–

END PROP. FENCE –L– STA. 43+94.84

BEGIN PROP. FENCE –L– STA. 43+36.74

END PROP. FENCE BEGIN PROP. NOISE WALL –L– STA. 44+13.91 (134.43' RT.) FACE OF WALL

END SINGLE FACED BARRIER END RETAINING WALL NO.1 –L– STA. 35+75.00 (75.5' LT.) FACE OF WALL

REMOVE EX. CABLE GUIDERAIL PROP. DBL. FACE CABLE GUIDERAIL

SPECIAL MEDIAN DITCH

SPECIAL BERM 'V' DITCH SEE DETAIL BJ

SPECIAL CUT DITCH SEE DETAIL F

SPECIAL CUT DITCH SEE DETAIL BK

SPECIAL CUT DITCH SEE DETAIL N

SPECIAL LATERAL BASE DITCH SEE DETAIL BB

SPECIAL CUT DITCH SEE-DETAIL BK

CLASS B RIP RAP EST. 3 TONS EST. 10 SY FF

CLASS B RIP RAP EST. 2 TONS EST. 7 SY FF

TOE PROTECTION ESTIMATIONS CL B RIP RAP & FF SEE DETAIL D

COLLAR AND EXTEND

REMOVE 6LF OF 18" RCP

REMOVE 15" RCP

REMOVE HW

REMOVE DI

REMOVE FES

REMOVE CB

RETAIN

15" W/ELBOWS, ROD, & LUG CONNECTORS

RADIAL GROUND WIRES 7 GAGE COPPER (APPROXIMATE LOCATION)

PROP. GUARDRAIL

PROP. NOISE WALL

PROP. NOISE WALL C

PROP. FENCE

ISBK SCHOOL

ISBKD

ISBW

WATER VAULT 5'x7'

GRAU 350

TYPE B-77

TYPE III

TYPE IV

TYPE S

TSD

2GI

2GI(D) FS-I

2GI(D) FS-III

FS-I

FS-III

MTL

MTL TYPE B-77

MTL TYPE S

MTL TYPE III

MTL TYPE IV

MTL GRAU TYPE 350

LEGEND

PAVED SHOULDER

APPROACH SLAB

PAVEMENT REMOVAL

FOR DITCH DETAILS, SEE SHEET NOS. 2-R THRU 2-S
FOR –L– PROFILE, SEE SHEET NO. 25
FOR –Y1– PROFILE, SEE SHEET NO. 44
FOR –Y3– PROFILE, SEE SHEET NO. 45
FOR –Y3A– PROFILE, SEE SHEET NO. 46
FOR PAVEMENT-BRIDGE RELATIONSHIP SKETCHES, SEE SHEET NO. 2-AC

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PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-6/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 6

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

FOR DITCH DETAILS, SEE SHEET NOS. 2-P THRU 2-T
FOR -L- PROFILE, SEE SHEET NO. 25 & 26
FOR -LCDWB- PROFILE, SEE SHEET NO. 31
FOR -Y3A- PROFILE, SEE SHEET NO. 46

–MATCHLINE– STA. 47+00.00 –L– SEE SHEET NO. 5

–MATCHLINE– STA. 61+00.00 –L– SEE SHEET NO. 7

NC GRID NAD 83

STATESVILLE CHRISTIAN SCHOOL, INC. DB 1535 PG 1904

KEITH M. NORRIS, ET. AL. DB 1309 PG 2518

DOROTHY EDWARDS GAITHER DB 1066 PG 497 DB 456 PG 433

THE HOWARD FAMILY LIMITED PARTNERSHIP, ET. AL. DB 962 PG 1952

CLAUDIA VIOLA GRAY DB 811 PG 808

GEORGE B. TAYLOR DB 670 PG 598

NANCY S. GOFORTH DB 1128 PG 1372

FRANK CAUTHEN JR. DB 760 PG 145 DB 999 PG 703

RICKY D. HINK DB 1839 PG 958

J. D. HARRIS DB 626 PG 906

SARAH PLYLER ADAMS DB 390 PG 062 W.E. FILE #99E-013

DONALD E. SIGMON DB 1093 PG 1677

CRAIG W. SMITH DB 1439 PG 614

JOHN H. CHAPMAN DB 1155 PG 954

CHARLES EDWARD HEYE II DB 545 PG 548

DRUCILLA N. DAVIS DB 392 PG 132 W.E. FILE #95E-692

BRENT P. WEATHERMAN DB 1149 PG 1685

JAMES S. COYLE DB 580 PG 62

STEPHEN RAY DIXON DB 998 PG 438

CURTIS F. GEORGE DB 538 PG 224

JAMES SUMMER DB 1794 PG 773

BILLY F. CHAPMAN DB 577 PG 393

BILLY H. DOBBINS DB 368 PG 337

NANCY ELIZABETH HUNTER POWELL DB 650 PG 120

KENNETH R. BURDETTE DB 821 PG 593

JOHNATHAN M. TRAVIS DB 995 PG 688

MURIEL KERLEY TRAVIS DB 822 PG 510

GLENN CARROLL JORDAN, SR. DB 482 PG 165

DANETTE FACCETANO DB 1696 PG 651

JOHN M. GREGORY DB 821PG 920

CHINA SUPER BUFFET, INC. DB 1709 PG 2227

-Y3A- PC 13+88.26

END CONSTRUCTION -Y3A- POC 15+50.00

-Y3A- PT 15+76.88

-Y3A- PC 16+64.96

-Y3A- PT 19+21.92

-LCDWB- PC 10+00.00

-LCDWB- PT 5+10.00

-LCDEB- PC 14+45.00

-LCDEB- PT 18+91.67

BEGIN CONSTRUCTION -L- EBL -L- POT 56+50.00

BEGIN CONSTRUCTION -Y3A- POT 26+00.00

-Y3A- PT 25+76.54

-LCDEB- FUT. POT 18+00.00 = -L- POT 56+50.24 (48' RT) Δ = 2°18'

-LCDEB- FUT. PC 14+31.82

-LCDEB- FUT. EB COLLECTOR-DISTRIBUTOR PI Sta 15+98.03 Δ = 2°18'00.0" (LT) D = 0°41'31.1" L = 332.38' T = 166.21' R = 8,280.00' SE = 02

50 x 24 x 3 1.5 inch Skimmer with 1.0 inch Orifice Diameter 14 ft. weir ID 6.1

CLASS B RIP RAP EST. 2 TONS EST. 7 SY FF

CLASS II RIP RAP ON BANKS ONLY EST. 40 TONS & 75 SY FF SEE DETAIL K

SPECIAL CUT DITCH SEE DETAIL F

SPECIAL CUT DITCH SEE DETAIL BK

LATERAL BASE DITCH W.EST. 260 TONS CL B RIP RAP & 338 SY FF SEE DETAIL B

SPECIAL LATERAL BASE DITCH W.EST. 120 TONS CL B RIP RAP & EST. 145 SY FF SEE DETAIL BE

TOE PROTECTION W.EST. 373 SY PSRM SEE DETAIL E

LATERAL BASE DITCH W.EST. 288 SY PSRM SEE DETAIL AC

CLASS B RIP RAP EST. 7 SY FF

CLASS B RIP RAP EST. 14 SY FF

BEGIN PROP. SHOULDER BERM GUTTER -LCDWB- STA 19+40 -LCDWB- 40.5 (LT) STA 60+30 -L- 130 (LT)

BEGIN PROP. FENCE END PROP. NOISE WALL -L- STA 48+84.20 (134.48 RT.) FACE OF WALL -L- STA 48+35.23 (134.50 RT.) FACE OF WALL

BEGIN PROP. FENCE END PROP. NOISE WALL -L- STA 48+84.88 (126.40 RT.) FACE OF WALL

BEGIN PROP. NOISE WALL -L- STA 57+87.77 (124.70 RT.) FACE OF WALL STA 57+58.44 (127.28 RT.) FACE OF WALL

END PROP. FENCE BEGIN NOISE WALL -L- STA 56+98.69 (133.35 RT.) FACE OF WALL

END NOISE WALL -L- STA 57+01.05 (99.8 RT.) FACE OF WALL

BEGIN DOUBLE FACED CONC BARRIER -LCDEB- STA 57+87.77 (124.70 RT.) FACE OF WALL

BEGIN RETAINING WALL NO.2 -LCDEB- STA 57+87.77 (124.70 RT.) FACE OF WALL

PROP. RETAINING WALL NO.2

PROP. NOISE WALL

BEGIN 450' LANE & SHIFT TAPERS (RT.) -L- STA 58+50.00

REMOVE DI

REMOVE FES

REMOVE 12 LF 24" CMP

REMOVE TW

REMOVE GUARDRAIL AND EXTEND

REMOVE EXISTING CABLE GUIDERAIL

PROP. DBL. FACE CABLE GUIDERAIL

15" W/ELBOWS, ROD, & LUG CONNECTORS

50' WOOD STUCCO SOUND BARRIER WALL

BERM DITCH

NOTE: APPROXIMATE LOCATION OF GAS LINE REDUCTION

LEGEND
PAVED SHOULDER
APPROACH SLAB
PAVEMENT REMOVAL

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PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-7/CONST.7
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 7

92 x 42 x 3
2 inch Skimmer
with 1.625 inch
Orifice Diameter
28 ft. weir
ID 7.1

-MATCHLINE- STA. 61+00.00 -L- SEE SHEET NO. 6

-MATCHLINE- STA. 75+00.00 -L- SEE SHEET NO. 8

-Y3A-

NC GRID NAD 83

THE HOWARD FAMILY LIMITED PARTNERSHIP, ET. AL. DB 962 PG 1952

THE HOWARD FAMILY LIMITED PARTNERSHIP, ET. AL. DB 962 PG 1949

LOU M. BELL, ET. AL. DB 962 PG 1955

RUCHIKA, LLC DB 1821 PG 1494

-Y3A- PC 30+58.14

-Y3A- PT 32+82.28

-Y3A- PRC 39+74.34

-Y3A- PC 35+46.78

-Y4RPB- TS 10+00.00 = -LCDWB- POC 33+04.06 (24' LT.)

BEGIN 300' TAPER (LT.) -LCDWB- STA.24+00.00

BEGIN PROP. SHOULDER BERM GUTTER +50.0 -Y3A-

END 300' TAPER (LT.) -LCDWB- STA.27+00.00

N 80° 22' 32.4" E

SR 1965 GAITHER RD

N 79° 56' 28.9" E

N 80° 12' 51.5" E

N 82° 30' 51.5" E

N 83° 01' 15.4" E

-LCDWB- N=80° 12' 51.5" E

-LCDWB- PC 26+90.31

-L- PC 67+99.88

-LCDWB- 20+40.84 (39.50' RT.) FACE OF WALL

-LCDWB- 17+00.74 (39.50' RT.) FACE OF WALL

-L- STA.66+57.77 (121.73' RT.) FACE OF WALL

-Y4RPC- POT 6+87.23 = -L- POT 66+40.00 (48' RT.) Δ = 2°18'

-Y4RPC- PC 7+72.50

-LCDEB- FUT.PC 21+50.32

-LCDEB- FUT.PT 17+64.20

-Y4RPC- FUT. POT 10+00.00= -LCDEB- POC 23+00.00 (24' RT) Δ = 2°18'

-Y4RPC- FUT. PC 11+95.36

-Y4RPC- FUTURE RAMP C PI Sta 13+02.86 Δ = 2°03'10.5" (LT) D = 0°57'17.7" L = 214.98' T = 107.50' R = 6,000.00' SE = 03 DS = 90 mph

-LCDEB- FUT. EB COLLECTOR-DISTRIBUTOR PI Sta 15+98.03 Δ = 2°18'00.0" (LT) D = 0°41'31.1" L = 332.38' T = 166.21' R = 8,280.00' SE = 02 DS = 55 mph

PI Sta 25+39.92 Δ = 2°38'12.7" (RT) D = 0°20'18.5" L = 779.06' T = 389.60' R = 16,928.00' SE = NC DS = 75 mph

-Y4RPC- FUT.PT 44+10.34

-Y4RPC- PRC 13+83.43

END PROP. RET.WALL NO.2 -Y4RPC- FUT. 13+00.00 27.5' RT. FACE OF WALL

BEG PROP. NOISE WALL -Y4RPC- FUT 13+75.00 27.5' RT. FACE OF WALL

END PROP NOISE WALL -Y4RPC- FUT. 14+01.45 39.48' RT. FACE OF WALL

BEG PROP. RET.WALL NO.3 -Y4RPC- FUT 13+75.00 33.5' RT. FACE OF WALL

PROP NOISE WALL -Y4RPC- FUT 11+95.36 39.5' RT. FACE OF WALL

END PROP. RETAINING WALL NO.2 -LCDEB- 16+01.22 (39.50' RT.) FACE OF WALL

BEGIN PROP. RETAINING WALL NO.2A

END 450' LANE & SHIFT TAPERS (RT.) STA.8+00.00

PROP. RETAINING WALL NO.2A

PROP. NOISE WALL

PROP. SHOULDER BERM GUTTER

PROP. DBL. FACE CABLE GUIDERAIL

REMOVE EX. CABLE GUIDERAIL

DRY DETENTION BASIN

RIP RAP @ EMBANKMENT EST. 20 SY FF SEE DETAIL W

CLASS II RIP RAP EST. 20 SY FF

PROP. SLOPE

PROP. RIGHT

KEITH S. RAINWATER, ET. ALS., DB 1083 PG 795

ARTHUR OLAND DB 1679 PG 1708

PHYLLIS ELDER STEWART DB 786 PG 771

WILLIAM L. BOYD DB 1546 PG 2367

CITY OF STATESVILLE BOARD OF EDUCATION DB 323 PG 272

ISBK SCHOOL

RADIO TOWER

ROBERT GLENN HAITHCOX DB 467 PG 389

KELLY L. RUDISILL DB 671 PG 591

HARRY W. CAMPBELL DB 505 PG 241 W.E. FILE #99-647

WILLIAM LARRY CAMPBELL DB 1220 PG 113

LARRY J. SNODDY

NORTHVIEW PROFESSIONAL PARK CONDOMINIUMS DB 54 PG 575 DB 693 PG 836 DB 693 PG 809 DB 693 PG 783 DB 922 PG 1214

NOTE: NOISE WALL LOCATIONS ARE SUBJECT TO CHANGE BASED ON APPROVAL. THEREFORE; WALL LOCATIONS SHOWN HAVE NOT BEEN COMPLETELY COORDINATED WITH HYDRO DESIGN.

LEGEND
- PAVED SHOULDER
- APPROACH SLAB
- PAVEMENT REMOVAL

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PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-8/CONST.8
RW SHEET NO.	9
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 8

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

NOTE: UTILIZE SKIMMER BASIN OR SPECIAL STILLING BASIN AS STILLING BASIN WHERE APPLICABLE.

NC GRID – NAD 83

–MATCHLINE– STA. 15+00.00 –Y8– SEE SHEET NO. 20

–MATCHLINE– STA. 35+00.00 –Y4– SEE SHEET NO. 20

–MATCHLINE– STA. 14+50.00 –Y5– SEE SHEET NO. 20

–MATCHLINE– STA. 75+00.00 –L– SEE SHEET NO. 7

–MATCHLINE– STA. 104+00.00 –L– SEE SHEET NO. 9

–MATCHLINE– STA. 20+50.00 –Y4– SEE SHEET NO. 19

32 x 18 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
8 ft. weir
ID 8.3

12 x 32 x 3
1.5 inch Skimmer
with 0.375 inch
Orifice Diameter
5 ft. weir
ID 8.2

16 x 32 x 3
1.5 inch Skimmer
with 0.50 inch
Orifice Diameter
8 ft. weir
ID 8.7

35 x 17 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
9 ft. weir
ID 8.4

35 x 27 x 3
6 ft. weir
ID 8.1

18 x 37 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
10 ft. weir
ID 8.5

29 x 40 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
20 ft. weir
ID 8.6

20 x 45 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
12 ft. weir
ID 8.8

FOR –L– PROFILE, SEE SHEET NO. 26 & 27
FOR –LCDWB– PROFILE, SEE SHEET NO. 31 & 32
FOR –LCDWB– PROFILE, SEE SHEET NO. 33
FOR –Y3– PROFILE, SEE SHEET NO. 44
FOR –Y4– PROFILE, SEE SHEET NO. 47 & 48
FOR –Y4RPA– PROFILE, SEE SHEET NO. 49
FOR –Y4RPC– PROFILE, SEE SHEET NO. 50
FOR –Y4RPC– PROFILE, SEE SHEET NO. 51
FOR –Y4RPD– PROFILE, SEE SHEET NO. 52
FOR –Y5– PROFILE, SEE SHEET NO. 53
FOR –Y8– PROFILE, SEE SHEET NO. 54
FOR DITCH DETAILS, SEE SHEET NOS. 2-R THRU 2-S
FOR PAVEMENT-BRIDGE RELATIONSHIP SKETCHES, SEE SHEET NO. 2-AS
FOR DETAIL OF BASINS, SEE SHEET NOS. 2-T THRU 2-AF
FOR –Y4– DETAIL, SEE SHEET 2-CH

LEGEND
PAVED SHOULDER
APPROACH SLAB
PAVEMENT REMOVAL

GRAPHIC SCALE
50 25 0 50 100
PLANS

LOCATION: I-40/I-77 INTERCHANGE INCLUDING I-40 WEST OF SR 2003 (Bodie Rd) TO SR 2108 (Old Mocksville Rd) & I-77 FROM SOUTH OF SR 2331 (East Broad St) TO SOUTH OF SR 2121 (Jane Sower Rd)

TIP NO.: I-3819A COUNTY: IREDELL

DESIGNED BY:

CHECKED BY: DATE:

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PLEASE DO NOT DELETE THIS LINE. CC-on-R9.dgn

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 9
PROJECT REFERENCE NO. I-3819A
SHEET NO. EC-9/CONST.9
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.
NC GRID NAD 83
-MATCHLINE- STA. 104+00 -L- SEE SHEET NO. 8
-MATCHLINE- STA. 24+00 -YRPBD- SEE SHEET NO.15
-MATCHLINE- STA. 147+00 -Y- SEE SHEET NO. 15
-MATCHLINE- STA. 133+00 -L- SEE SHEET NO. 10
-MATCHLINE- STA. 135+00 -Y- SEE SHEET NO. 14
EXCEL REALTY TRUST -- NC DB 985 PG 678
EXCEL REALTY TRUST -- NC DB 1007 PG 125
EXCEL REALTY TRUST -- NC DB 1007 PG 122
R&M PROPERTIES DB 877 PG 1533
GENERAL MILLS RESTAURANTS, INC. DB 905 PG 2335
MOORESVILLE LODGING, LLC DB 1804 PG 1781
DOOSAN INTERNATIONAL USA, INC. DB 1906 PG 2178-2180
RAHAB LAND COMPANY, INC. DB 996 PG 628
DUKE ENERGY COMPANY POWER TRANSMISSION LINE R/W = 68 FEET WIDE
B
C
50 x 22 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
14 ft. weir
ID 9.2
140 x 40 x 3
2.5 inch Skimmer
with 2.125 inch
Orifice Diameter
32 ft. weir
ID 9.1F
2 inch Skimmer
with 1.75 inch
Orifice Diameter
12 ft. weir with
2.75 ft. weir height
ID 9.3
(See Earthen Dam
with Skimmer Detail)
42 x 20 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
12 ft. weir
ID 9.4
40 x 38 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
22 ft. weir
ID 9.2F
64 x 32 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
24 ft. weir
ID 9.3F
40 x 20 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
12 ft. weir
ID 9.1
BEGIN CONSTRUCTION -Y5- POT 38+90.00
BEGIN CONSTRUCTION (YLPB) -YLPB- POC 18+50.00 TIE TO EXISTING PAVEMENT
END CONSTRUCTION -L- POT 126+00.00 BEGIN OVERLAY
END CONSTRUCTION (YRPC) -YRPC- POT 22+60.00 TIE TO EXISTING PAVEMENT
FOR -L- PROFILE, SEE SHEET NO. 28
FOR -LCDWB- PROFILE, SEE SHEET NO. 33
FOR -Y- PROFILE, SEE SHEET NO. 34
FOR -YRPBD PROFILE, SEE SHEET NO. 39
FOR -YRPB- PROFILE, SEE SHEET NO. 41
FOR -YLPB- PROFILE, SEE SHEET NO. 41
FOR -YRPC- PROFILE, SEE SHEET NO. 42
FOR -Y5- PROFILE, SEE SHEET NOS. 54 & 55
FOR DITCH DETAILS, SEE SHEET NOS. 2-R THRU 2-S
FOR GORE AREA DETAILS, SEE SHEET NOS. 2-AM THRU 2-AR
LEGEND
PAVED SHOULDER
PAVEMENT REMOVAL
GRAPHIC SCALE
50 25 0 50 100
PLANS
LOCATION: I-40/I-77 INTERCHANGE INCLUDING I-40 WEST OF SR 2003 (Radio Rd) TO SR 2158 (Old Mocksville Rd) & I-77 FROM SOUTH OF SR 2321 (East Broad St) TO SOUTH OF SR 2171 (Jane Sower Rd)
TIP NO.: I-3819A
COUNTY: IREDELL
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NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE – B AND TEMPORARY ROCK SILT CHECKS TYPE – A AT DRAINAGE OUTLETS.

NOTE: UTILIZE SKIMMER BASIN OR SPECIAL STILLING BASIN WHERE APPLICABLE.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 10

PROJECT REFERENCE NO.	SHEET NO.
I-5954	EC-10-120857.0
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-MATCHLINE- SEE SHEET NO. 15

-MATCHLINE- STA. 36+00 -YRPBD- SEE SHEET NO. 15

-MATCHLINE- STA. 133+00 SEE SHEET NO. 9

-MATCHLINE- STA. 162+00 SEE SHEET NO. 11

-MATCHLINE- SEE SHEET NO. 14

NC GRID — NAD 83

A

D

-YRPA- (FUTURE)
PI Sta 10+42.39
Δ = 1° 56' 00.9" (LT)
D = 2° 16' 51.2"
L = 84.17'
T = 42.39'
R = 2,512.00'

PI Sta 11+45.45
Gs = 2° 16' 51.2"
Ls = 200.00'
LT = 133.34'
ST = 66.68'

PI Sta 14+63.20
Gs = 6° 30' 39.2"
Ls = 200.00'
LT = 133.42'
ST = 66.73'

PI Sta 19+50.37
Δ = 51° 05' 07.5" (RT)
D = 6° 30' 39.2"
L = 784.70'
T = 420.60'
R = 880.00'

-YRPAC- (FUTURE)
PIs Sta 22+85.63
Gs = 2° 17' 30.6"
Ls = 200.00'
LT = 133.34'
ST = 66.68'

PIs Sta 55+99.15
Δ = 104° 48' 33.5" (LT)
D = 2° 17' 30.6"
L = 457.17'
T = 324.86'
R = 2,500.00'

-YRPA- SC 13+95.9

-YRPAD- ST 23+39.56

-YRPA- CS 11+95.81

-YRPA- PC 10+00.00 = -YRPAD- CS 8+39.56, 120° RT

-YRPA- SC 15+29.77 (FUTURE)

-YRPA- TS 15+29.77 (FUTURE)

-YRPA- ST 19+84.71 (FUTURE)

-YRPA- CS 10+84.71 (FUTURE)

-YRPAC- PC 10+00.00 = -YRPAD- CS 28+90.00, 120° RT

-YRPAC- (FUTURE)
PIs Sta 40+53.25
Δ = 94° 37' 00.5" (LT)
D = 2° 29' 07.4"
L = 237.05'
T = 157.77'
R = 1540.00'

-YRPAC- TS 24+52.29 (FUTURE)

-YRPAC- ST 17+52.89 (FUTURE)

-YRPAD- POT 10+00.00 = -L- POT 153+50.42 LT, Δ = 2° 18' 00"

-YRPAD- ST 13+70.35

-YRPAD- 15 11+70.35

-YRPAD- PT 49+03.76 & RT JLB- -YRPBD- PC 49+03.76 LA

-YRPBD- CS 49+83.59

-YRPBD- CS 45+95.92

-YRPBD- ST 24+97.58

-YRPBD- PC 28+01.99

-YRPBD- CS 24+75.88

-YRPBD- TS 15+29.77 (FUTURE)

-YRPBD- ST 27+97.50 (FUTURE)

-YRPBD- 16 5+17.76

-YRPBD- SC 8+84.52

-YRPBD- TS 12+20.40

-YRPBD- SC 15+20.40

-YRPBD- POC 15+33.31

-YRPBD- POT 17+67.00

-YRPBD- TS 10+40.05

-LCDEB- POT 108+40.05 (RT)

-L- POT 136+00.00 END OVERLAY BEGIN CONSTRUCTION

-L- POT 136+90.37 BEGIN APPROACH SLAB

-L- POT 139+15.37 BEGIN BRIDGE

-L- POT 140+84.33 END APPROACH SLAB

-L- POT 140+59.33 END BRIDGE

-L- POT 158+00.00 END CONSTRUCTION (WBL)

-LC POT 158+00.00 TIE TO EXISTING PAVEMENT

-L- POT 159+33.05, 42.71' RT

-YRPC- SC 5+17.76

-YRPC- CS 8+84.52

-YRPC- ST 10+52.89 (FUTURE)

-YRPC- TS 21+52.29 (FUTURE)

-YRPC- (FUTURE)

-LCDEB- (FUTURE)

-LCDEB- PC 9+45.64

-LCDEB- (FUTURE)
PI Sta 11+33.34
Δ = 2° 09' 43.6"
Ls = 200.00'
LT = 133.34'
ST = 66.68'

PI Sta 19+15.41
Δ = 30° 15' 55.3" (LT)
D = 2° 09' 43.6"
L = 1,397.50'
T = 715.45'
R = 2,650.00'

Pts Sta 26+64.17
Gs = 2° 09' 43.6"
Ls = 200.00'
LT = 133.34'
ST = 66.68'

-LCDEB- (FUTURE)
PI Sta 96+35.46
Δ = 0° 55' 40.7" (LT)
D = 0° 15' 02.3"
L = 370.36'
T = 185.18'
R = 22,860.00'

PI Sta 100+05.82
Δ = 0° 55' 40.7" (RT)
D = 0° 15' 02.3"
L = 370.36'
T = 185.18'
R = 22,860.00'

62 x 30 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
20 ft. weir
ID 10.6

30 x 70 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
22 ft. weir
ID 10.1F

90 x 45 x 3
2.0 inch Skimmer
with 1.75 inch
Orifice Diameter
30 ft. weir
ID 10.7

42 x 20 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
12 ft. weir
ID 10.4

Modified Silt Basin
Type 'B'
33 x 19 x 3
(See Tiered Skimmer
Basin Detail)
ID 10.5

33 x 19 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
11 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 10.5

15 x 30 x 3
1.5 inch Skimmer
with 0.50 inch
Orifice Diameter
7 ft. weir
ID 10.3

18 x 36 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
10 ft. weir
ID 10.2

60 x 28 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
20 ft. weir
ID 10.1

CLEAN WATER DIVERSION
(Not To Scale)

STABILIZED EXCAVATED MATERIAL
SOIL STABILIZATION GEOTEXTILE
UPSLOPE CLEAN WATER
6" MIN.

FOR -L- PROFILE, SEE SHEET NOS. 29 & 50
FOR -YRPAA- PROFILE, SEE SHEET NO. 37
FOR -YRPA- PROFILE, SEE SHEET NO. 38
FOR -YRPBD PROFILE, SEE SHEET NOS. 39 & 40
FOR -YRPD- PROFILE, SEE SHEET NO. 43
FOR DITCH DETAILS, SEE SHEET NOS. 2-B1 THRU 2-S
FOR GORE AREA DETAILS, SEE SHEET NOS. 2-AM THRU 2-AN

LOCATION: I-40A.77 INTERCHANGE INCLUDING I-40 WEST OF SR 2003 (Rudie Rd) TO SR 2158 (Old Mocksville Rd) & I-77 FROM SOUTH OF SR 2321 (East Broad St) TO SOUTH OF SR 2171 (Anne Sowers Rd)

TIP NO.: I-5897A COUNTY: IREDELL

GRAPHIC SCALE
50 25 0 50 100
PLANS

DESIGNED BY:

CHECKED BY: DATE:

BY=JOY-2851.8861
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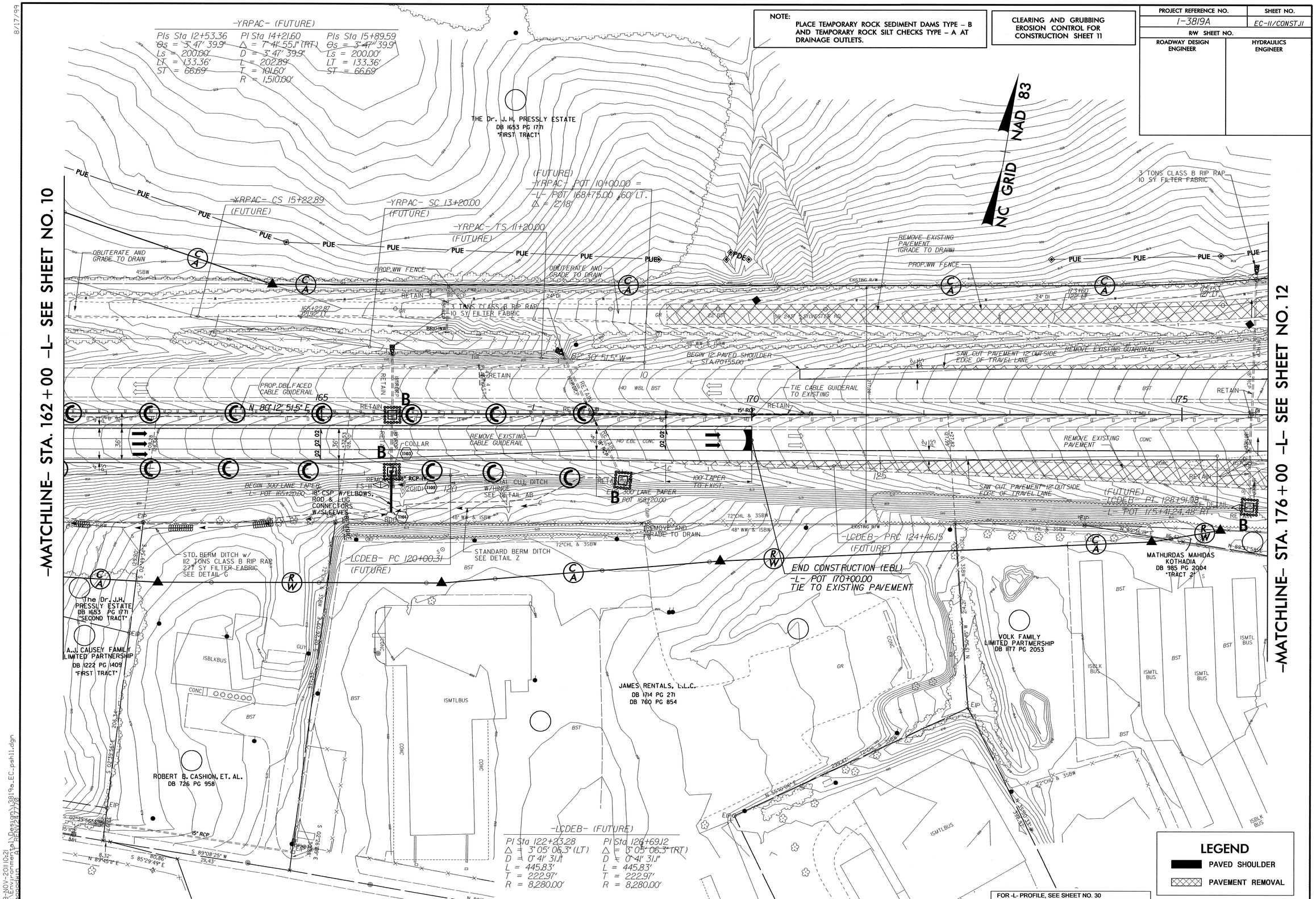
PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-11/CONST.11
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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 11



FOR -L- PROFILE, SEE SHEET NO. 30
FOR DITCH DETAILS, SEE SHEET NOS. 2-R THRU 2-S

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8/17/99

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-12/CONST12
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 12

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

-MATCHLINE– STA. 176+00 –L– SEE SHEET NO. 11

-MATCHLINE– STA. 190+00 –L– SEE SHEET NO. 13

NC GRID NAD 83

THE Dr. J. H. PRESSLY ESTATE
DB 1653 PG 1771
"FIRST TRACT"

CAROLINA FARM CREDIT, ACA
DB 1502 PG 804

CAROLINA F... CREDIT, AC...
DB 1677 PG ...

DITCH CLEAN OUT
5 TONS CLASS B RIP RAP
14 SY FILTER FABRIC

-L- STA.180+80.20, 201.96' LT.
CENTER CUL-DE-SAC

ADJUST RIM TO ELEV 885.00

GRADE TO DRAIN APPROX. 4.25% SLOPE

REMOVE EXISTING PAVEMENT (GRADE TO DRAIN)

PROP. WW FENCE

PUE

-L- STA.178+33.24
217.12' LT.

-L- STA.176+85
163.21' LT.

-L- STA.176+95
95.21' LT.

SWAMP STEER RD
22' BST

BEGIN CONSTRUCTION
-Y10A- POT 11+00.00

-Y10A- POT 10+00.00

REMOVE EXISTING GUARDRAIL

REMOVE EXISTING PAVEMENT

-L- STA.177+84.76
TIE TO EXISTING PAVED SHOULDER

-L- STA.176+58.34
TIE TO EXISTING PAVED SHOULDER

PROP. WW FENCE
GRADE TO DRAIN APPROX. 1.39% SLOPE

TIE TO EXISTING FENCE

RETAIN
REPLACE CONC APRON AND REGRADE DITCH AROUND APRON

-L-
N 80°12'51.5" E

MATHURDAS MAHIDAS KOTHADIA
DB 985 PG 2004
"TRACT 2"

MATHURDAS MAHIDAS KOTHADIA
DB 985 PG 2004
"TRACT 1"

GRADE TO DRAIN APPROX. 0.3% SLOPE

DIETER J. LOHRMANN
ULRICH H. LOHRMANN
DB 1401 PG 1370

TIE TO EXIST. FENCE
+87.89 -Y10A-

REMOVE

SPECIAL CUT DITCH
SEE DETAIL F

FS-I
SEE DETAIL

FS-III

-Y10A- PC 16+10.32

-Y10ART- PC 10+00.00 =
-Y10A- POT 16+05.89, 4' RT.

-Y10A- CS 19+99.09

-Y10A-

-Y10ART-
S 89°04'08.7" E

-Y10ART- PT 13+58.21

HAAS / CARTER
REAL ESTATE, LLC
DB 1148 PG 2105

TRAVIS CARTER
PROPERTIES, L.L.P.
DB 1112 PG 1111

TONY L. BREWER
DB 1689 PG 1041

HANS J. VOELSKE
DB 1046 PG 2272

EDWARD RAY HARMON
DB 538 PG 86

EDWARD RAY HARMON
DB 978 PG 1777

3 TONS CLASS B RIP RAP
10 SY FILTER FABRIC

SAW STATESVILLE MAPLE LEAF, LLC
DB 1824 PG 1817

N 54°16'51.8" E

FOR -Y10A- PROFILE, SEE SHEET NO. 57
FOR -Y10ART- PROFILE, SEE SHEET NO. 57
FOR DITCH DETAILS, SEE SHEET NOS. 2-R THRU 2-S

LEGEND
- PAVED SHOULDER
- PAVEMENT REMOVAL

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REVERSE (7)

8/17/99

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 13	PROJECT REFERENCE NO.	SHEET NO.
	I-3819A	EC-13/CONST.13
	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.

–MATCHLINE– STA. 190+00 –L– SEE SHEET NO. 12

NC GRID – NAD 83

INGERSOLL-DRESSER PUMP COMPANY
DB 866 PG 1961

LARRY S. HEDRICK
DB 890 PG 161
DB 890 PG 164

STATESVILLE PARTNERSHIP, LLC
DB 1659 PG 272
DB 1659 PG 295

DOCKERY FAMILY LIMITED PARTNERSHIP
DB 1159 PG 1854
TRACT 2

H. DWIGHT BLACKWELDER
DB 689 PG 60

DAVID J. PARKS
DB 689 PG 72

TRAVIS CARTER PROPERTIES, L.L.P.
DB 1102 PG 111

TRAVIS CARTER PROPERTIES, L.L.P.
DB 1310 PG 596

BILL R. SHERRILL
DB 649 PG 63

BILL R. SHERRILL
DB 415 PG 330

GERTRUDE V. DAGES
DB 1199 PG 1627

SR 2174 CRAWFORD RD

-L- TS 202+94.01

END TIP PROJECT I-3819A
-L- POT 197+50.00

-Y15RPC- POT 7+93.30 =
-L- TS 202+94.01, 48' RT.

-Y10A- ST 21+99.09

END CONSTRUCTION
-Y10A- POT 23+00.00

-Y10A- POT 23+08.06

-Y10ART- POT 16+82.12 =
-Y10A- POT 23+00.04, 46.89' RT.

REMOVE EXISTING GUARDRAIL

REMOVE EXISTING PAVEMENT (GRADE TO DRAIN)

SAW CUT PAVEMENT 4' OUTSIDE EDGE OF TRAVEL LANE

PROP. WW FENCE

TIE TO EXIST. FENCE

EXISTING BRIDGE TO REMAIN

PIPE CLEAN OUT

24" CSP W/ ELBOW

FES #1302

FES #1304

DEED OVERLAP

FOR -Y10A- PROFILE, SEE SHEET NO. 57
FOR -Y10ART- PROFILE, SEE SHEET NO. 57

LEGEND

PAVED SHOULDER

PAVEMENT REMOVAL

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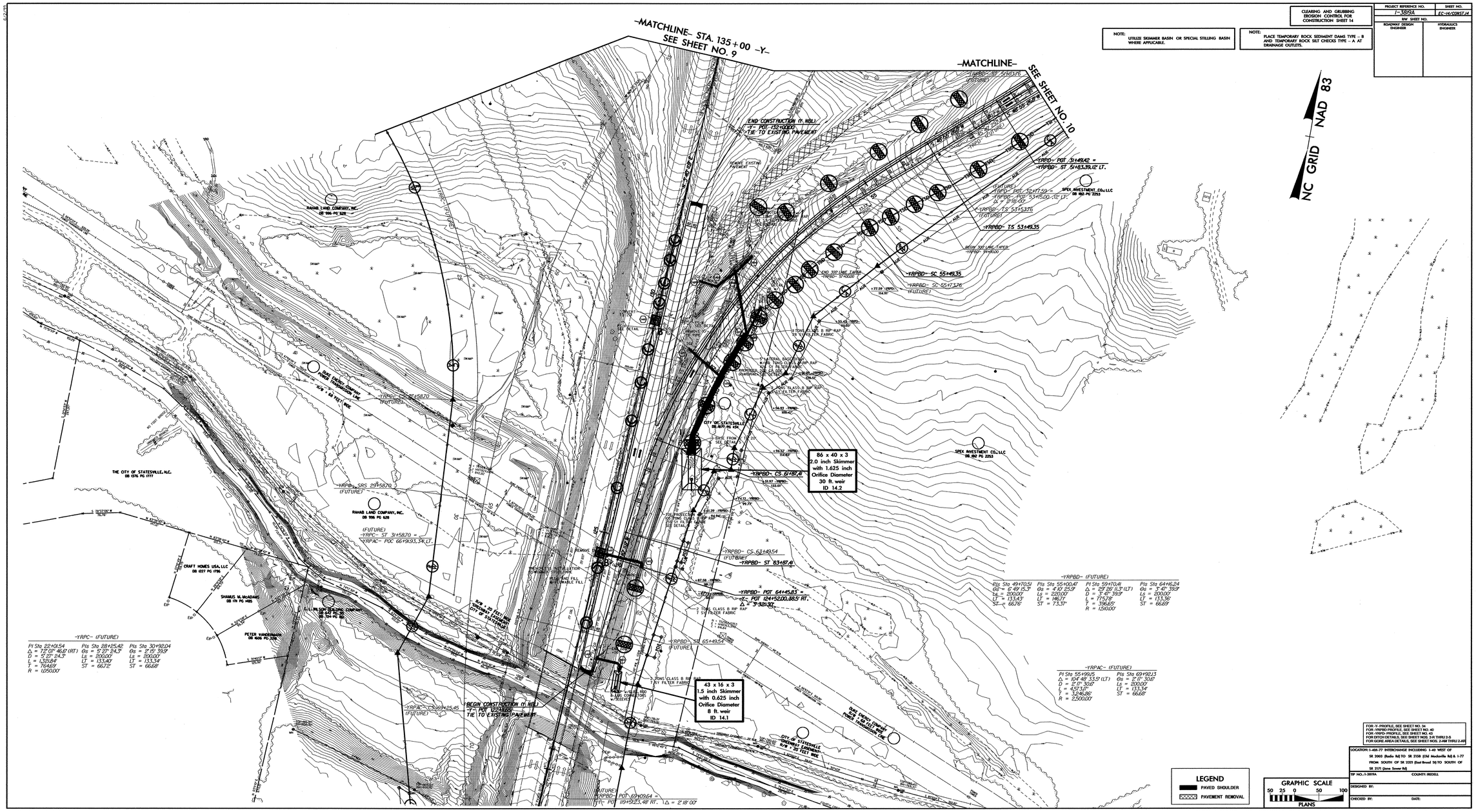
ORDOVICIAN REVIEW 7/7/2010



NOTE: UTILIZE SKIMMER BASIN OR SPECIAL STILLING BASIN WHERE APPLICABLE.

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

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-14/CONST.14
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FOR -Y- PROFILE, SEE SHEET NO. 34
FOR -YRPBD PROFILE, SEE SHEET NO. 40
FOR -YRPD- PROFILE, SEE SHEET NO. 43
FOR DITCH DETAILS, SEE SHEET NOS. 2-R THRU 2-S
FOR GORE AREA DETAILS, SEE SHEET NOS. 2-AM THRU 2-AR

LOCATION: I-406-77 INTERCHANGE INCLUDING I-40 WEST OF SR 2003 (Radio Rd) TO SR 2158 (Old Mocksville Rd) & I-77 FROM SOUTH OF SR 2321 (East Broad St) TO SOUTH OF SR 2171 (Jane Sower Rd)

TIP NO.: I-3819A COUNTY: IREDELL

DESIGNED BY:

CHECKED BY: DATE:

07-NOV-2011 16:24

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-15/CONST.15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR CONSTRUCTION SHEET 15

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

NC GRID – NAD 83

–MATCHLINE– STA. 161+00 –Y– SEE SHEET NO. 16

–YRPB– (FUTURE)
PI Sta 20+89.54
Δ = 29° 06' 03.9" (LT)
D = 3° 22' 13.2"
L = 863.45'
T = 441.25'
R = 1700.00'
PIs Sta 25+78.42
Es = 3° 22' 13.2"
Ls = 200.00'
LT = 133.36'
ST = 66.69'

–YRPB– ST 25+43.49

END CONSTRUCTION
–Y5– POT 67+00.00

–YRPB– CS 25+11.73 (FUTURE)

–YRPB– CS 24+43.49

–Y5– PT 65+56.66

3 TONS CLASS B RIP RAP
10 SY FILTER FABRIC

DOOSAN INTERNATIONAL USA, INC.
DB 1906 PG 378-380

ROADWAY CUT 'F' BASE DITCH
W/ PSRM, SEE DETAIL A5

3 TONS CLASS B RIP RAP
5 SY FILTER FABRIC

END DOUBLE FACED BARRIER
BEGIN GUARDRAIL
–Y5– ST 67+00.00 =
–YRPB– STA.0+94.35

52 x 26 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
16 ft. weir
ID 15.4

END PRP. RETAINING WALL NO.#5
W/ SINGLE FACE BARRIER TF.
& CONCRETE BARRIER RAIL W/ MOMENT SLAB TF.
BEGIN DOUBLE FACED BARRIER
–Y5– ST 67+00.00 =
–YRPB– STA.0+94.35

ROADWAY CUT 'F' BASE DITCH
SEE DETAIL A5

3 TONS CLASS B RIP RAP
5 SY FILTER FABRIC

45 x 22 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
14 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 15.3

Modified Silt Basin
Type 'B'
45 x 22 x 3
(See Tiered Skimmer
Basin Detail)
ID 15.3

–YRPB– SC 16+48.29

–Y5– PC 57+02.39

ROADWAY CUT 'F' BASE DITCH
W/ PSRM, SEE DETAIL A5

–YRPB– TS 14+48.29

DOOSAN INTERNATIONAL USA, INC.
DB 1906 PG 378-380

END PRP. RETAINING WALL NO.#5
W/ SINGLE FACE BARRIER TF.
& CONCRETE BARRIER RAIL W/ MOMENT SLAB TF.
BEGIN DOUBLE FACED BARRIER

DITCH TO DRAIN

–MATCHLINE– STA. 24+00 –YRPBD– SEE SHEET NO. 9

–YRPBD– POT 30+42.48
–Y– PT 150+16.40
Δ = 85° 55' 39.2"

BEGIN BRIDGE
–Y– POT M9+76.90

BEGIN APPROACH SLAB
–Y– POT 150+53.73
(END DBL FACED MEDIAN BARRIER)

–MATCHLINE– STA. 147+00 –Y– SEE SHEET NO. 9

–YRPA– ST 20+29.40

END APPROACH SLAB
–Y– POT 151+22.54
(END DBL FACED MEDIAN BARRIER)

END BRIDGE
–Y– POT 150+96.40

–YRPA– CS 19+34.40

–YRPA– CS 21+44.47 (FUTURE)

–YRPB– TS 22+44.40

–MATCHLINE– STA. 34+00 –YRPBD– SEE SHEET NO. 10

22 x 44 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
14 ft. weir
ID 15.1

45 x 20 x 3
1.5 inch Skimmer
with 1.5 inch
Orifice Diameter
0.75 ft. weir
ID 10.8

64 x 32 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
20 ft. weir
ID 15.2

–YRPCA– (FUTURE)
PI Sta 41+53.05
Δ = 94° 37' 00.3" (LT)
D = 5° 59' 37.1"
L = 1708.25'
T = 1277.77'
R = 1640.00'
PIs Sta 51+50.22
Es = 3° 59' 37.1"
Ls = 200.00'
LT = 153.36'
ST = 66.69'

–YRPA– (FUTURE)
PI Sta 19+50.37
Δ = 6° 26' 27.8" (RT)
D = 6° 59.39"
L = 1093.07'
R = 820.00'
PIs Sta 24+03.26
Es = 6° 30' 40"
Ls = 200.00'
LT = 111.69'
ST = 88.79'

PI Sta 27+87.82
Δ = 11° 40' 10.9" (RT)
D = 3° 19' 59.2"
L = 582.54'
T = 293.34'
R = 1,800.00'
PIs Sta 31+23.70
Es = 3° 19' 59.2"
Ls = 200.00'
LT = 153.35'
ST = 66.69'

–MATCHLINE– SEE SHEET NO. 10

THE Dr. J. K. PRESSLY ESTATE
DB 1057 PG 778
"FIRST TRACT"

SHIRES FARMS, INC.
DB 1216 PG 42

PAVEMENT–BRIDGE RELATIONSHIP SKETCH

* GUARDRAIL ANCHORS REQUIRED

–Y– STA. 8+77

–Y– STA. 9+77.09

LEGEND
- PAVED SHOULDER
- APPROACH SLAB
- PAVEMENT REMOVAL

GRAPHIC SCALE
50 25 0 50 100
PLANS

FOR 'Y' PROFILE, SEE SHEET NOS. 34 & 35
FOR –YRPWB– PROFILE, SEE SHEET NO. 37
FOR –YRPA– PROFILE, SEE SHEET NO. 38
FOR –YRPBD PROFILE, SEE SHEET NO. 39
FOR –YRPB– PROFILE, SEE SHEET NO. 41
FOR –Y5– PROFILE, SEE SHEET NO. 55
FOR DITCH DETAILS, SEE SHEET NOS. 2-R1 THRU 2-S
FOR GORE AREA DETAILS, SEE SHEET NOS. 2-AM THRU 2-AN

LOCATION: I-40/I-77 INTERCHANGE INCLUDING I-40 WEST OF SR 2003 (Rodio Rd) TO SR 2158 (Old Mocksville Rd) & I-77 FROM SOUTH OF SR 2321 (East Broad St) TO SOUTH OF SR 2171 (Jane Sower Rd)

TIP NO.: I-3819A COUNTY: IREDELL

DESIGNED BY:

CHECKED BY: DATE:

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PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-16/CONST.16
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 16

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

NC GRID NAD 83

–MATCHLINE– STA. 161+00 –Y– SEE SHEET NO. 15

–MATCHLINE– STA. 175+00 –Y– SEE SHEET NO. 17

DOOSAN INTERNATIONAL USA, INC.
DB 1906 PG 2178-2180

CONGRESS STATESVILLE, LLC
DB 1532 PG 1446

JAMES FARMS, INC.
DB 336 PG 412

SR 2187 GLENWAY DR

(FUTURE)
–YRPB– ST 27+11.73 =
–Y– POT 161+66.99, 48.0' LT.

–YRPB– POT 28+01.91 =
–Y– POT 162+56.93, 39.0' LT.
Δ = 2°18'00"

–Y5– POT 73+84.77

–Y5–

N 3°47'05.8" E

END CONSTRUCTION (Y SBL)
–Y– POT 165+49.95
TIE TO EXISTING PAVEMENT

N 5°58'11.9" E

PROPOSED GUARDRAIL

FS-II SEE DETAIL

CONVERT TO 2GI

TIE TO EXISTING GUARDRAIL

ADJUST & CONVERT TO 26I

2 TONS CLASS B RIP RAP
7 SY FILTER FABRIC
48" WW & ISBW

SPECIAL CUT DITCH SEE DETAIL E

2GI W/TL GR

SHOULDER BERM GUTTER

–YRPA– TS 31+58.73

–YRPA– SC 33+58.73

–YRPA– CS 35+12.25

51 TONS CLASS I RIP RAP
5 TONS ONLY
62 SY FILTER FABRIC
SEE DETAIL X

ROCK PLATING @ EMBANKMENT SEE DETAIL R

REMOVE DI

COLLAR

–YRPCA– SC 61+73.37
(FUTURE)

–YRPCA– TS 59+77.37
(FUTURE)

–YRPA– ST 32+57.02
–YRPCA– POT 571+20.00, 12' RT.

–YRPCA– CS 63+33.24
(FUTURE)

(FUTURE)
–YRPCA– ST 65+33.24 =
–Y– POT 169+35.00, 60' RT.

TIE TO EXISTING FENCE +/-170

–YRPA– ST 37+12.25 =
–X– POT 170+72.66, 39.0' RT.

TIE FILL SLOPE TO EXISTING DITCH

CONVERT TO 2GI

PLUG AND FILL W/FLOWABLE FILL

PROPOSED GUARDRAIL (REMOVE EXISTING)

RETAIN SPRING

RETAIN OTCB

RETAIN 24" CMP

RETAIN 30" CMP

6" CMP RETAIN

RETAIN 24" RCP

RETAIN 18" RCP

RETAIN 48" RCP

RETAIN 48" CONC PIPE

RETAIN 36" CONC PIPE

RETAIN 48" RCP-III

RETAIN 18" RCP-III

RETAIN 24" RCP-III

RETAIN 30" RCP-III

RETAIN 36" RCP-III

RETAIN 42" RCP-III

RETAIN 48" RCP-III

20 x 43 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
12 ft. weir
ID 16.1

–YRPCA– (FUTURE)

Pls Sta 61+10.73	Pl Sta 62+55.37	Pls Sta 63+99.94
Θs = 3°47'39.9"	Δ = 5°54'52.6" (RT)	Θs = 3°47'39.9"
Ls = 200.00'	D = 3°47'39.9"	Ls = 200.00'
LT = 133.36'	L = 155.88'	LT = 133.36'
ST = 66.69'	T = 78.01'	ST = 66.69'
	R = 1,510.00'	

FOR –Y– PROFILE, SEE SHEET NO. 35
FOR –YRPA– PROFILE, SEE SHEET NO. 38
FOR –YRPB– PROFILE, SEE SHEET NO. 41
FOR DITCH DETAILS, SEE SHEET NOS. 2-R THRU 2-S
FOR GORE AREA DETAILS, SEE SHEET NOS. 2-AM THRU 2-AR

LEGEND
PAVED SHOULDER
PAVEMENT REMOVAL

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Microstation PE (2.7.2.0)

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CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 17	
PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-17/CONST.17
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.

NC GRID NAD 83

–MATCHLINE– STA. 175+00 –Y– SEE SHEET NO. 16

176 CONGRESS STATESVILLE, LLC DB 1532 PG 1446

176A IREDELL COUNTY DB 1926 PG 1282

96 JAMES FARMS, INC. DB 336 PG 412

EXISTING R/W

60.00'

SR 1967 GLENWAY DR

48" WW & 15"RW

24' BST

25' BST

+50 –Y– EX.RW

S 86°20'00" E

+49.63 99.68

EIP

R/W MON

TIE TO EXISTING FENCE +16.03

120' –Y– EX.RW

+49.30 99.88

RETAIN 18" RCP

177 SBL

PROPOSED GUARDRAIL

TIE TO EXISTING GUARDRAIL

180

185

N 3° 40' 11.9" E

CONC

MTL

18" RCP

FS-II SEE DETAIL

PLUG AND FILL W/FLOWABLE FILL

177 NBL

11' BST

4' BST

177 SBL 24' BST

177 NBL 24' BST

FES-1010 BROKEN

15" RCP

BEGIN 300' LANE TAPER –Y– POT 176+75.00

END 300' LANE TAPER –Y– POT 179+75.00

TRENCHLESS INSTALLATION 15" WELDED STEEL PIPE

(1702)

+50.04 127.80

+50.06 130.38

END CONSTRUCTION (Y NBL) –Y– POT 179+75.00 TIE TO EXISTING PAVEMENT

SOIL

+75 –Y– 128'

+84.31 –Y– 188.59'

+14.28 –Y– 189.91'

AUE

+87.56 –Y– 115'

+65 –Y– 118'

+50 –Y– 115'

+80 –Y– 128'

+16.92 –Y– 130'

+24.68 –Y– 130'

+25 –Y– 115'

+75 –Y– 155'

+00 –Y– 130'

FOR -Y- PROFILE, SEE SHEET NOS. 35 & 36
FOR DITCH DETAILS, SEE SHEET NOS. 2-R THRU 2-S

LEGEND

PAVED SHOULDER

PAVEMENT REMOVAL

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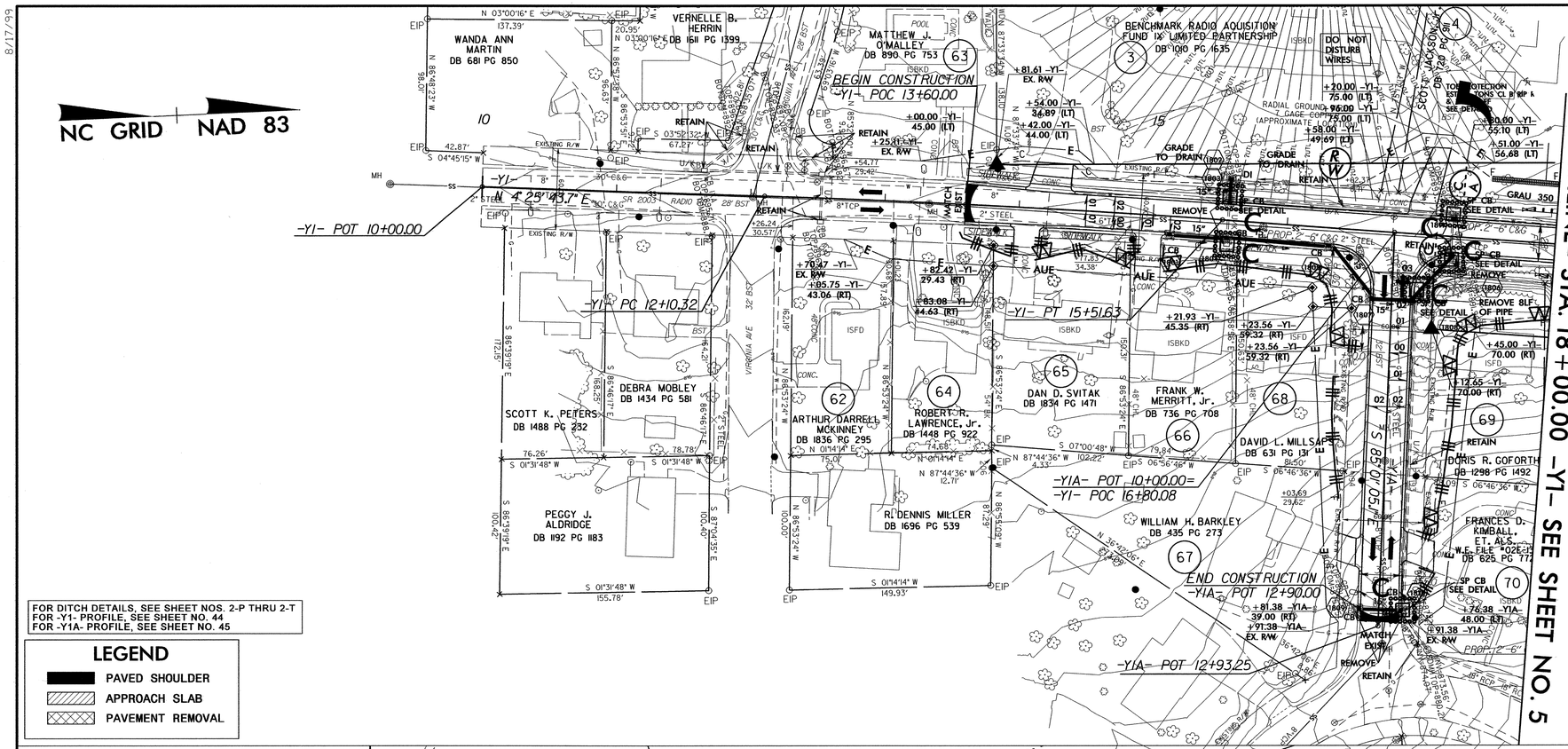
PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-18/CONST.18
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

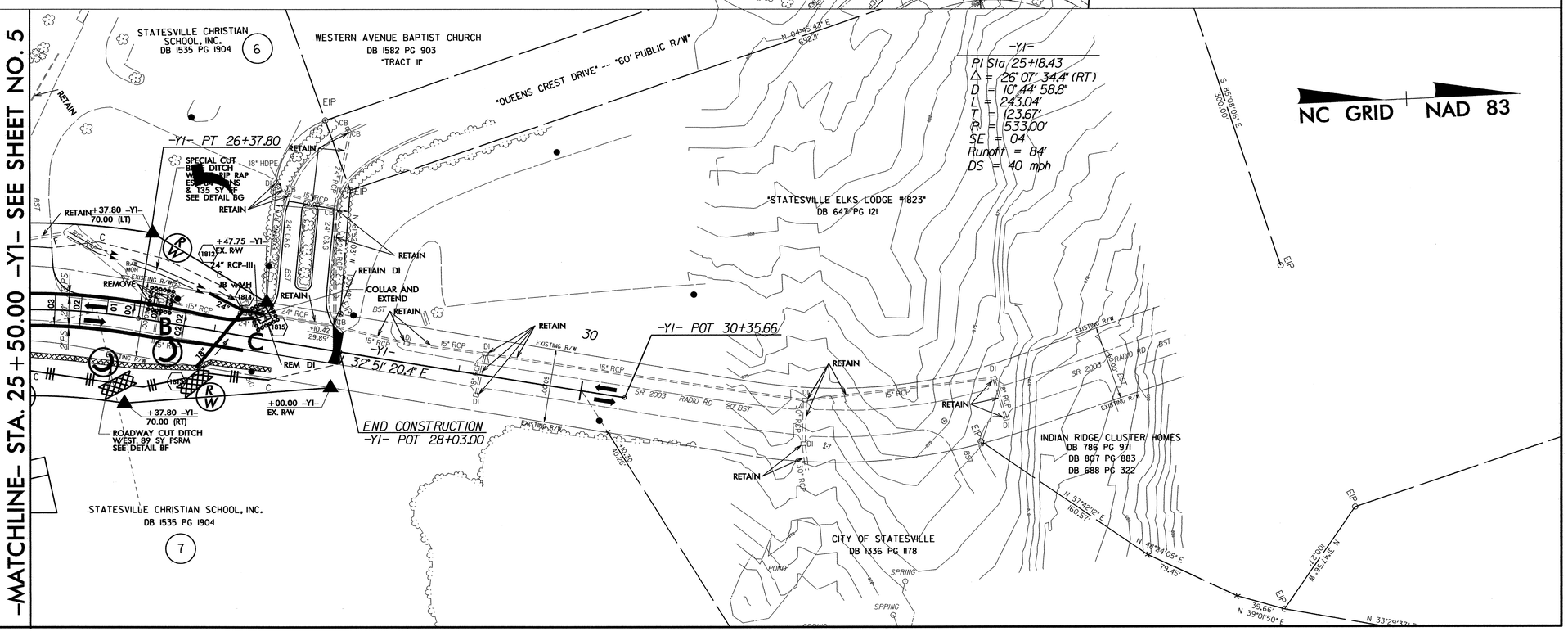
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 18

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



FOR DITCH DETAILS, SEE SHEET NOS. 2-P THRU 2-T
FOR -Y1- PROFILE, SEE SHEET NO. 44
FOR -Y1A- PROFILE, SEE SHEET NO. 45

LEGEND
- PAVED SHOULDER
- APPROACH SLAB
- PAVEMENT REMOVAL



FOR DITCH DETAILS, SEE SHEET NOS. 2-P THRU 2-T
FOR -Y1- PROFILE, SEE SHEET NO. 44

LEGEND
- PAVED SHOULDER
- APPROACH SLAB
- PAVEMENT REMOVAL

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PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-19/CONST J9
RW 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 19

NC GRID NAD 83

72 RICHARD P. CANNON
DB 586 PG 323
DB 3811PG 169

75 SULLIVAN SQUARE, INC.
DB 1041 PG 1162

71 BRANCH BANKING & TRUST COMPANY
DB 785 PG 691
DB 785 PG 696
DB 785 PG 693

SULLIVAN ROAD PARTNERS
DB 947 PG 822

SULLIVAN ROAD PARTNERS
DB 942 PG 223

KENKAYLA REAL ESTATE LLC
DB 1876 PG 818
PB 52 PG 113
LOT 2B

KENKAYLA REAL ESTATE LLC
DB 1876 PG 818
PB 52 PG 113
LOT 2A

73

MRS. W. S. HUNTER
DB 469 PG 191

74 J B HARRISON PROPERTIES, LLC
DB 1822 PG 1116
"LOT "I"

SHANER HOTEL GROUP
LIMITED PARTNERSHIP
DB 981 PG 1816

76 DFS, LLC
DB 1235 PG 284

78 MEWA MUNDI, ET. ALS.
DB 1623 PG 626

77 SAM H. McMAHON, JR.
DB 819 PG 134

79 THE W.H. CHAMBERS ESTATE
DB 1172 PG 1593
DB 169 PG 315
DB 228 PG 522

74A AVANT NC, LLC
DB 1789 PG 589

CITY OF STATESVILLE
DB 509 PG 706
DB 560 PG 369

-Y4- PC 10+94.70

-Y4- POT 10+00.00

BEGIN CONSTRUCTION
-Y4- POT 10+90.00

BEGIN 150' TAPER (LT & RT)
-Y4- STA.10+90.00

END 150' TAPER (LT & RT)
-Y4- STA.12+90.00

BEGIN PROPOSED RETAINING WALL
-Y4- STA.18+34.24 LT.

END PROPOSED RETAINING WALL
-Y4- STA.18+34.24 LT.

-Y4- PT 17+82.72

-Y4- POT 18+28.35 =
-Y4A- POT 10+00.00

-Y4A- POT 13+50

-MATCHLINE- STA. 20+50.00 -Y4- SEE SHEET NO. 8

-Y4A- PT 17+87.7

N 17° 12' 42" W

N 78° 48' 17.7" E

DO NOT DISTURB

RETAIN

REMOVE

PROP. 5' SW

PROP. 4' MOWN. ISLAND

PROP. 8" X 18" CONC. CURB

REMOVE CB & 6 LF-15" RCP EXTEND 18" RCP

REMOVE 16 LF 15" CMP

PLUG & FILL W/ FLOWABLE FILL

WARP GUTTER TO DRAIN TO DI

MATCH EXIST.

REMOVE

LEGEND

- PAVED SHOULDER
- APPROACH SLAB
- PAVEMENT REMOVAL

FOR DITCH DETAILS, SEE SHEET NOS. 2-P THRU 2-T
FOR -Y4- PROFILE, SEE SHEET NO. 47

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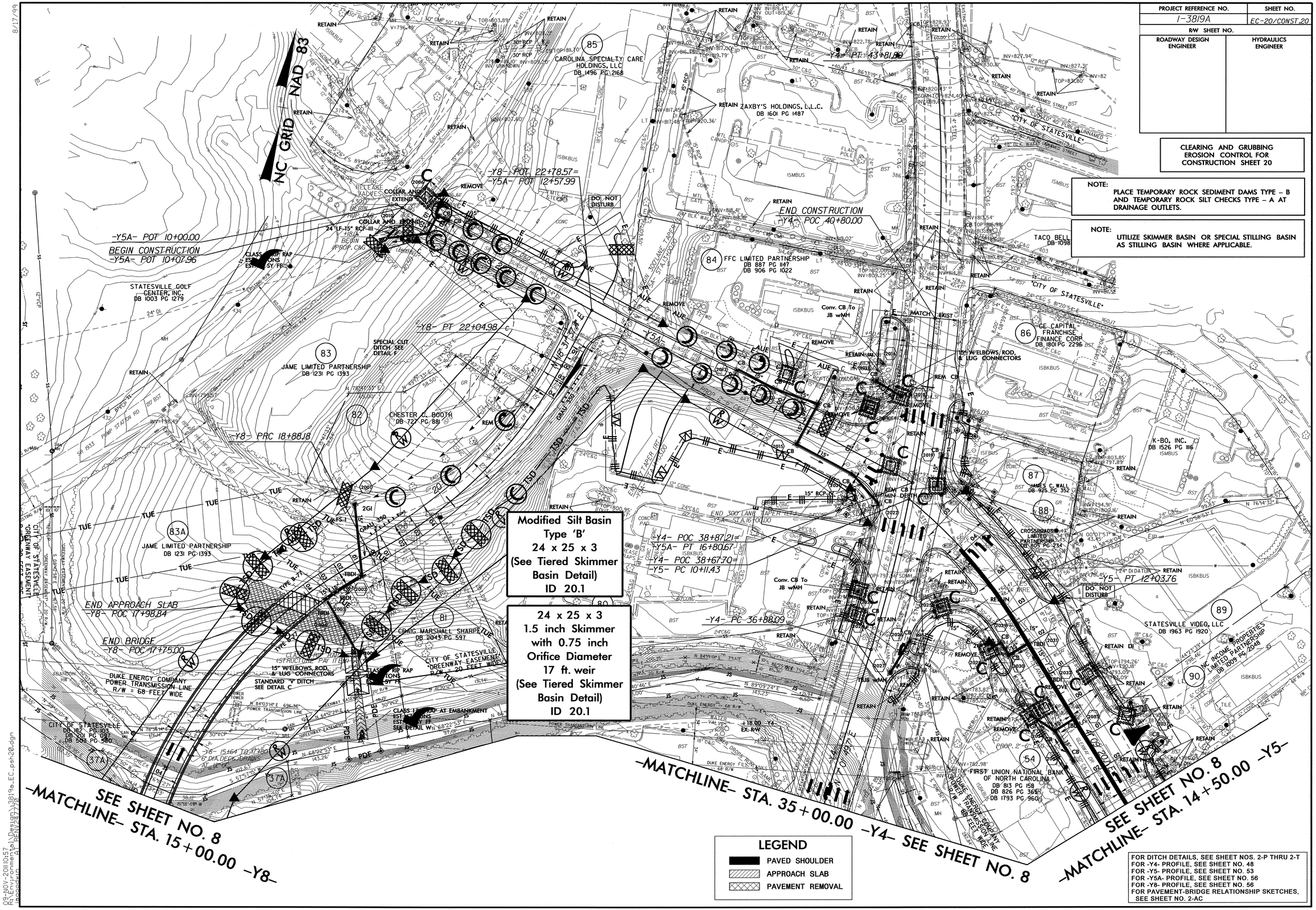
PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-20/CONST.20
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 20

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

NOTE: UTILIZE SKIMMER BASIN OR SPECIAL STILLING BASIN AS STILLING BASIN WHERE APPLICABLE.



Modified Silt Basin
Type 'B'
24 x 25 x 3
(See Tiered Skimmer Basin Detail)
ID 20.1

24 x 25 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
17 ft. weir
(See Tiered Skimmer Basin Detail)
ID 20.1

LEGEND
- PAVED SHOULDER
- APPROACH SLAB
- PAVEMENT REMOVAL

FOR DITCH DETAILS, SEE SHEET NOS. 2-P THRU 2-T
FOR -Y4- PROFILE, SEE SHEET NO. 48
FOR -Y5- PROFILE, SEE SHEET NO. 53
FOR -Y5A- PROFILE, SEE SHEET NO. 56
FOR -Y8- PROFILE, SEE SHEET NO. 56
FOR PAVEMENT-BRIDGE RELATIONSHIP SKETCHES, SEE SHEET NO. 2-AC

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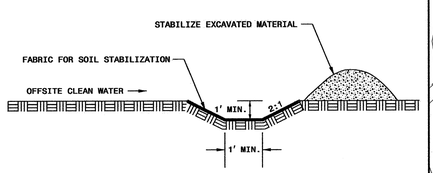
PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-21/CONST.21
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEAN WATER DIVERSION

(Not to Scale)



NOTE:
UTILIZE SKIMMER BASIN OR SPECIAL STILLING BASIN WHERE APPLICABLE.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 21

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

NC GRID NAD 83

33 x 13 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
5 ft. weir
ID 21.1F

23 x 24 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
12 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 22.1

39 x 20 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
12 ft. weir
ID 21.2

42 x 19 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
11 ft. weir
ID 21.1

40 x 19 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
11 ft. weir
ID 21.3

TOE PROTECTION w/73 TONS CLASS B RIP RAP W/STL FILTER FABRIC SEE DETAIL D

CULVERT INLET CHANNEL SEE DETAIL BM

TOE PROTECTION w/104 TONS CLASS I RIP RAP 212 SY FILTER FABRIC SEE DETAIL D

PROPOSED 5SBW FENCE

20' x 10' PSRM

CULVERT OUTLET CHANNEL SEE DETAIL BN

-SRI- PT 9+73.14

-SRI- PC 4+15.65

-SRI- POT 1+86.84

BEGIN CONSTRUCTION
-SRI- POT 2+00.00

CENTER CUL-DE-SAC
-SRI- STA 2+50.00

PROPOSED GUARDRAIL

RCBC 9' x 7'

15" CSP W/ELBOWS, ROD & LUG CONNECTORS W/SLEEVES SEE DETAIL

GRADE TO DRAIN

PROPOSED YARDRAIL

5' STRAIN WIRE

CLASS I RIP RAP 24 TONS ON BANKS ONLY 34 SY FILTER FABRIC SEE DETAIL K

TOE PROTECTION w/116 TONS CLASS I RIP RAP 238 SY FILTER FABRIC SEE DETAIL P

CLASS I RIP RAP 18 TONS ON BANKS ONLY 26 SY FILTER FABRIC SEE DETAIL K

TOE PROTECTION w/128 TONS CLASS B RIP RAP W/SLEEVES 70 SY FILTER FABRIC SEE DETAIL D

-SRI- PC 14+72.05

-MATCHLINE- STA. 16+00 -SRI- SEE SHEET NO. 22

SWAMP

WOODS

STONE

ANDREW H. CRAWFORD AND WIFE MERRI-DELL H. CRAWFORD DB 1055 PG 1089

JAMES FARMS, INC. DB 336 PG 412

PEPPERCORN MANAGEMENT, LLC DB 1514 PG 2449

FOR DITCH DETAILS, SEE SHEET NOS. 2-R THRU 2-S
FOR -SR1- PROFILE, SEE SHEET NO. 58

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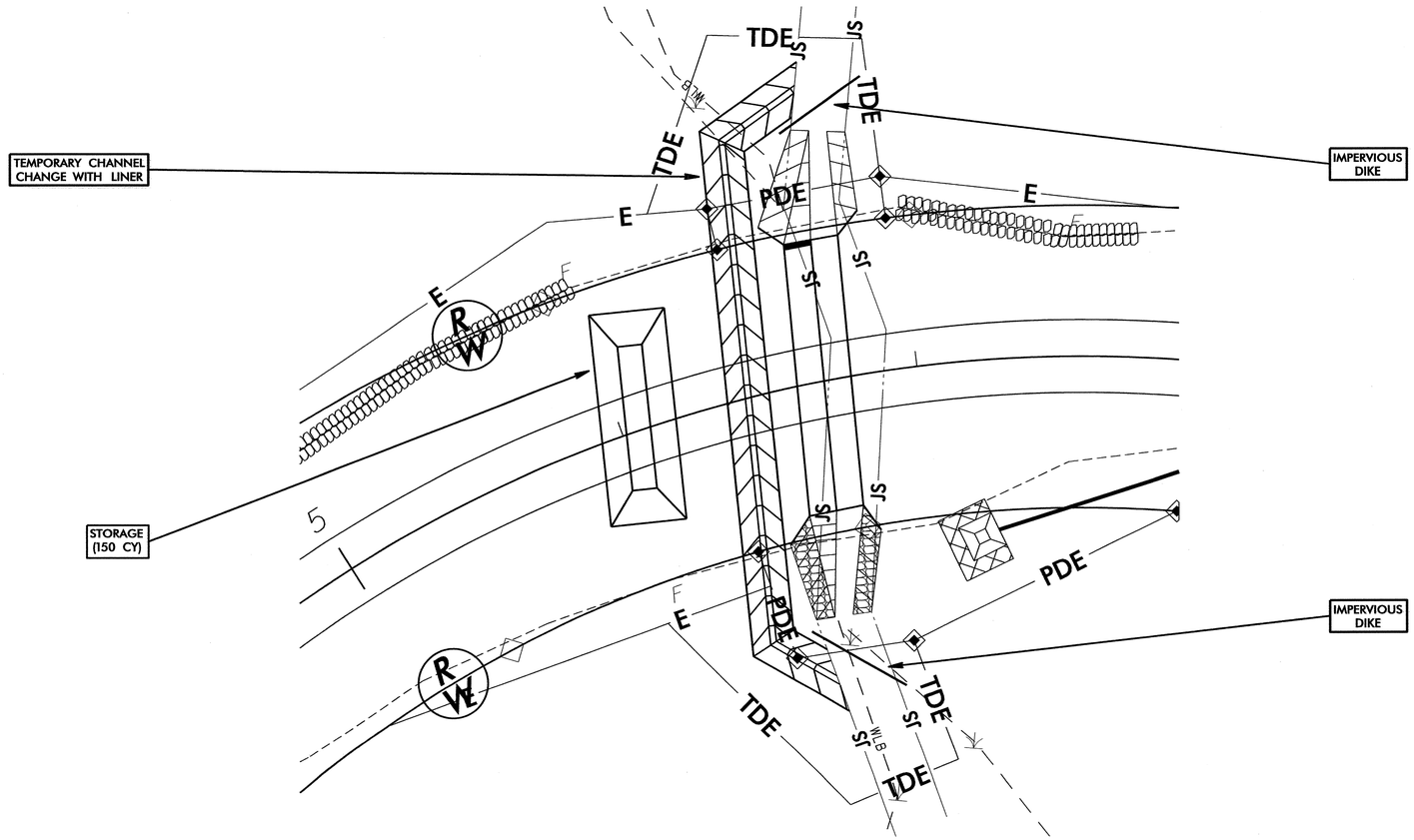
CULVERT CONSTRUCTION SEQUENCE STA. 6+69 –SR1–

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-22/CONST.21
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

1. CONSTRUCT STILLING BASIN (150 CY).
2. CONSTRUCT IMPERVIOUS DIKES AND TEMPORARY CHANNEL CHANGE WITH LINER (2 FT. BASE, 3 FT. DEEP, 2:1 SIDE SLOPES), DIVERTING FLOW.
3. CONSTRUCT THE PROPOSED CULVERT AND INLET/OUTLET CHANNEL IMPROVEMENTS.
4. REMOVE IMPERVIOUS DIKES AND TEMPORARY CHANNEL CHANGE, ALLOWING FLOW THROUGH THE PROPOSED CULVERT.
5. REMOVE STILLING BASIN.
6. COMPLETE ROADWAY.

NC GRID NAD 83



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PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-23/CONST.22
RW 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

Modified Silt Basin
Type 'B'
23 x 24 x 3
(See Tiered Skimmer
Basin Detail)
ID 22.1

27 x 54 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
30 ft. weir
ID 22.3F

46 x 23 x 3
1.5 inch Skimmer
1.0 with inch
Orifice Diameter
13 ft. weir
ID 22.2

NC GRID NAD 83

-MATCHLINE- STA. 16+00 -SR1- SEE SHEET NO. 21

-MATCHLINE- STA. 28+00 -SR1- SEE SHEET NO. 23

180
ANDREW H. CRAWFORD
AND WIFE
MERRI-DELL H. CRAWFORD
DB 1055 PG 1089

179
PEPPERCORN MANAGEMENT, LLC
DB 1514 PG 2449

-SR1- PT 19+39.55

-SR1- PC 19+75.41

-SR1- PT 22+45.42

PROPOSED SSBW FENCE

5 STRAND BARB WIRE

WOODS

POND

CULTIVATED

TIE TO EXISTING SWALE

8 TONS CLASS B RIP RAP
21 SY FILTER FABRIC

2 TONS CLASS B RIP RAP
7 SY FILTER FABRIC

5' BASE TAIL DITCH
L=20', S=0.3%, DDE 5CY
SEE DETAIL H

S 89°14'23" E
2488.19'

N 77° 34' 17.2" E

S 89° 32' 12.1" E

ROADWAY CUT DITCH
W/PSRM
SEE DETAIL N

SPECIAL CUT DITCH
SEE DETAIL F

SPECIAL CUT DITCH
W/ PSRM
SEE DETAIL X

+00 -SR1- 50'
+05 -SR1- 60'
+39.55 -SR1- 50'
+45.42 -SR1- 50'
+75 -SR1- 50'
+75.41 -SR1- 50'
+90 -SR1- 68'
+95 -SR1- 72'
+95 -SR1- 70'

FOR DITCH DETAILS, SEE SHEET NOS. 2-R THRU 2S
FOR -SR1- PROFILE, SEE SHEET NO. 58

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PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-24/CONST.23
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 23

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

NC GRID NAD 83

-MATCHLINE- STA. 28+00 -SR1- SEE SHEET NO. 22

180
ANDREW H. CRAWFORD AND WIFE MERRI-DELL H. CRAWFORD
DB 1055 PG 1089

-SR1- PC 29+54.92

PROPOSED 5SBW FENCE

PASTURE

SPECIAL CUT DITCH SEE DETAIL F

+86.42 -SR1- 50'

5 STRAND BARB WIRE

-SR1-

+54.92 -SR1- 50'

PROPOSED 5SBW FENCE

SPECIAL CUT DITCH SEE DETAIL F

CULTIVATED

179
PEPPERCORN MANAGEMENT, LLC
DB 1514 PG 2449

PROPOSED 5SBW FENCE

-SR1- PT 35+29.89

+29.89 -SR1- 50'

SPECIAL CUT DITCH SEE DETAIL F

+84.38 -SR1- 50'

SPECIAL CUT DITCH SEE DETAIL F

PROPOSED 5SBW FENCE

+38.16 -SR1- EX.R/W

+20 -SR1- 50'

STORAGE SHED

1STORY METAL AND BLOCK BUSINESS

CCC REAL ESTATE, L.P.
DB 1073 PG 2049

PAVED

18" CMP

260' PAVED

EOP

5 STRAND BARB WIRE

V DITCH
L=50', S=0.3%, DDE 2 CY
SEE DETAIL C

-SR1- POT 36+68.36

30' PAVED

N 63°00'36" E 366.78'

END CONSTRUCTION
-SR1- POT 36+57.13
(EOP SR 2174)

CRAWFORD RD SR 2174 23.0' PAVED

S 89°14'23" E 1.78'

+37.86 -SR1- EX.R/W

PEPPERTOWN RD

K. B. GODLEY VI, LLC
DB 1818 PG 1457

PEPPERTOWN RD

EXISTING R/W

60.00'

EXISTING R/W

FOR DITCH DETAILS, SEE SHEET NOS. 2-R THRU 2-S
FOR -SR1- PROFILE, SEE SHEET NOS. 58 & 59

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PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-25/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NC GRID NAD 83

-L- STA. 33+00.00 -L- SEE SHEET NO. 5

-MATCHLINE- STA. 33+00.00 -L- SEE SHEET NO. 5

ARTS AND SCIENCE MUSEUM, INC.
DB 812 PG 66

"DEED OVERLAP"
THE ABNER PARTNERSHIP
VS
ARTS AND SCIENCE MUSEUM, INC.

ARTS AND SCIENCE MUSEUM, INC.
DB 812 PG 66

CITY OF STATESVILLE
DB 22 PG 419

STATESVILLE CHRISTIAN SCHOOL, INC.
DB 1313 PG 2383

BEGIN PROP. FENCE
STA 20+07.40 -L-

BEGIN CONSTRUCTION
-L- POT 22+00.00

BEGIN TIP PROJECT I-3819A
-L- POT 20+07.40

END PROP. FENCE
STA 24+72.39 -L-

BEGIN PROP. FENCE
STA 22+00 -L-

END PROP. FENCE
STA 25+00 -L-

BEGIN PROP. NOISE WALL C
-L- STA. 26+26.84
(90.00' LT) FACE OF WALL

-L- STA. 31+96.71
(90.04' LT)
FACE OF WALL

-L- STA. 32+86.21
(92.87' LT)
FACE OF WALL

-L- TS 31+11.38

END EXPRESSWAY GUTTER
BEGIN SINGLE FACE BARRIER
BEGIN RETAINING WALL NO.1:
-L- STA. 30+50.00, (65.00' LT)
FACE OF WALL

BEGIN EXPRESSWAY
STA. 28+50
-L-

BEGIN EXIST. G/R REMOVAL OUTSIDE WBL
BEGIN PROP. FIELD ENTRANCE R
BEGIN 400' LANE & SHIFT TAPERS (LT.)
-L- STA. 26+00.00

END 400' LANE & SHIFT TAPERS LT.
BEGIN 350' LANE TAPER LT.
-L- STA. 30+00.00

BEGIN EXIST. CABLE GUIDERAIL REMOVAL
BEGIN PROP. DBL FACED CABLE GUIDERAIL
TIE TO EXIST. CABLE GUIDERAIL
-L- STA. 26+00.00

PROP. DBL FACE CABLE GUIDERAIL

CLASS II RIP RAP ON BANKS ONLY
ESTIMATIONS
ESTIMATED 15 SY FF
SEE DETAIL BO

CLASS II RIP RAP
ESTIMATIONS
ESTIMATED 5 SY FF

REMOVE HW
15' CONC HW
72" CL IV
REMOVE
25 LF
60" CMP

TRENCHLESS CONSTRUCTION
72" SMOOTH
WALL STEEL PIPE

PIPE CLEAN OUT
PLUG & FILL W/
FLOWABLE FILL

15" W/ELBOWS, ROD, & LUG CONNECTORS

TIE TO EXISTING GUARDRAIL
-L- +00

SPECIAL CUT DITCH
SEE DETAIL BK

SPECIAL LATERAL BASE DITCH
SEE DETAIL BB

REMOVE OTCB

REMOVE 24" PIPE

REMOVE JB

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

RETAINING WALL NO.1

REMOVE 9' 15" CMP
18" RCP-IV
COLLAR AND EXTEND

REMOVE 6LF OF 18" RCP

REMOVE DI

REMOVE FES W/ COLLAR AND EXTEND

PIPE CLEANOUT

SEE SPECIAL DETAIL

NOTE: NOISE WALL LOCATIONS ARE SUBJECT TO CHANGE BASED ON APPROVAL. THEREFORE; WALL LOCATIONS SHOWN HAVE NOT BEEN COMPLETELY COORDINATED WITH HYDRO DESIGN.

LEGEND
- PAVED SHOULDER
- APPROACH SLAB
- PAVEMENT REMOVAL

2 CITY OF STATESVILLE DB 22 PG 419

3 BENCHMARK RADIO AQUISITION FUND IX LIMITED PARTNERSHIP DB 1010 PG 1635

MONTCLAIR INVESTMENTS, LLC DB 1485 PG 2127

ROBERT EDWARD LACKEY DB 322-PG 481 DB 1342 PG 1318 W.E. FILE #01-583

WILLIAM S. KERLEY, Jr. DB 1310 PG 1629

FOR DITCH DETAILS, SEE SHEET NOS. 2-R THRU 2-S
FOR -L- PROFILE, SEE SHEET NO. 24 & 25

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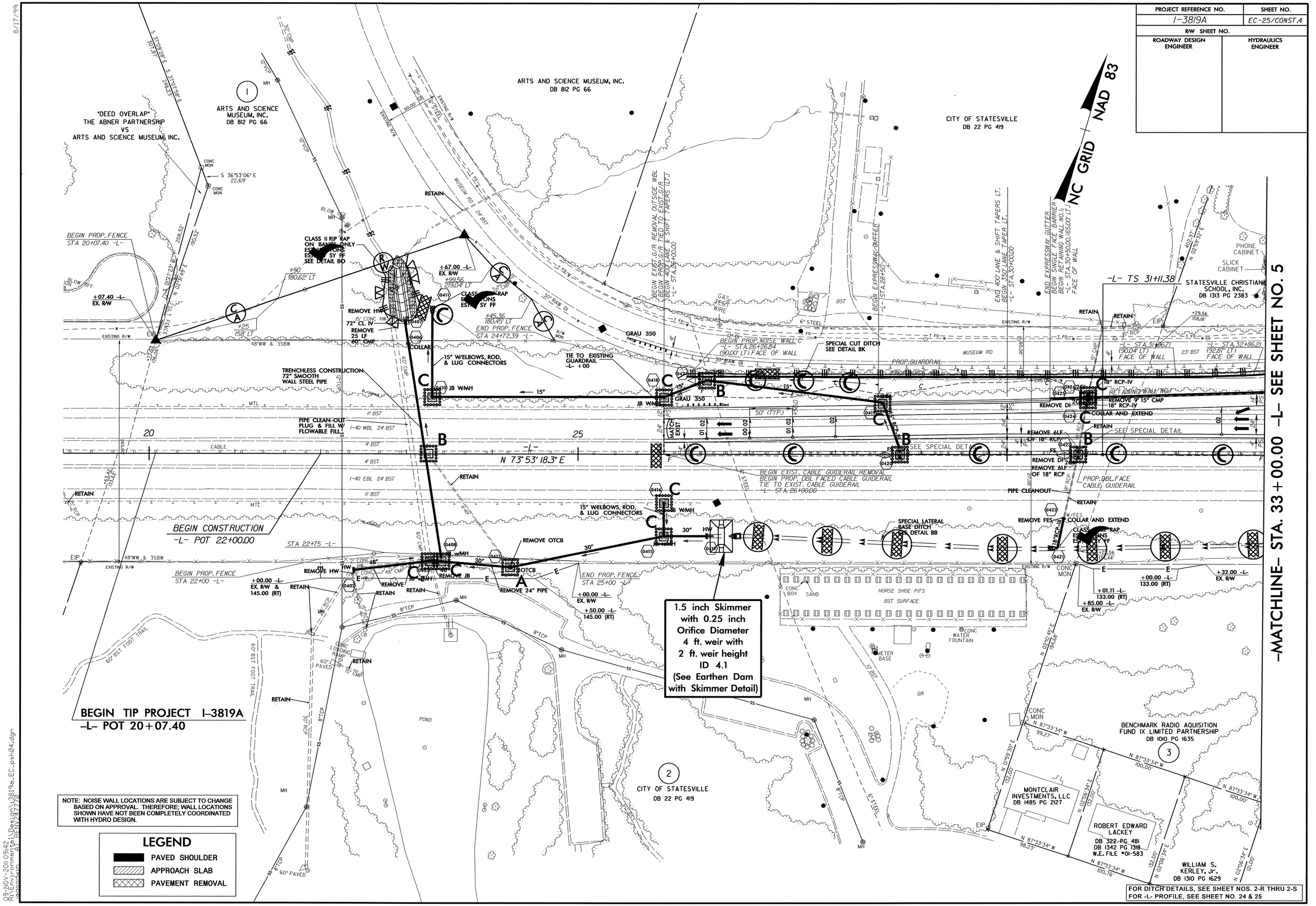

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PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-26/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NC GRID NAD 83

-MATCHLINE- STA. 33+00.00 -L- SEE SHEET NO. 4

-MATCHLINE- STA. 25+50.00 -Y1- SEE SHEET NO. 18

-MATCHLINE- STA. 18+00.00 -Y1- SEE SHEET NO. 18

-MATCHLINE- STA. 47+00.00 -L- SEE SHEET NO. 6

40 x 17 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
9 ft. weir
ID 5.1

20 x 10 x 3
1.5 inch Skimmer
with 0.25 inch
Orifice Diameter
4 ft. weir
ID 5.2

WESTERN AVENUE BAPTIST CHURCH
DB 1582 PG 903
"TRACT I"

WESTERN AVENUE BAPTIST CHURCH
DB 1582 PG 903
"TRACT III"

STATESVILLE CHRISTIAN SCHOOL, INC.
DB 1313 PG 2383

STATESVILLE CHRISTIAN SCHOOL, INC.
DB 1535 PG 1904

CLAUDIA VIOLA GRAY
DB 811 PG 808

BENCHMARK RADIO AQUISITION FUND IX LIMITED PARTNERSHIP
DB 1010 PG 1635

SCOTT JACKSON, JR.
DB 720 PG 511

HAZEL M. CARDIN
DB 1556 PG 1791

FRANCES B. KIMBALL, ET. ALS.
DB 625 PG 772
W.E. FILE #02E-134

ROBERT W. ANDERSON
DB 1653 PG 351

RICKY D. HIX
DB 838 PG 958

BEGIN CONSTRUCTION
-Y3- POC 13+20.00

-Y3- POT 10+00.00

-Y1- PC 23+94.75

-Y1- POT 23+54.94 = -Y3- POT 17+59.15 = -Y3A- POT 10+34.69

-Y3- PT 15+64.17

-Y3- PC 12+14.88

-Y3- STA.13+20.00

-Y3- STA.16+24.40

-Y3A- STA.11+45.00

END APPROACH SLAB
-Y1- POT 21+79.21

END BRIDGE
-Y1- POT 21+55.08

-L- SC 33+11.38

-L- STA.34+64.01 (108.81' LT) FACE OF WALL

-L- STA.33+50.00 (75.50') FACE OF WALL

-L- STA.35+82.93 (108.73' LT) FACE OF WALL

-L- STA.39+08.42 (131.01' LT) FACE OF WALL

-L- STA.38+19.41 (131.96' LT) FACE OF WALL

-L- STA.43+36.71

-L- STA.44+13.91 (134.43' RT.) FACE OF WALL

-L- POC 42+97.41 = -Y1- POT 20+40.37

-L- CS 44+25.23

-L- ST 46+25.23

BEGIN BRIDGE
-Y1- POT 19+30.25

BEGIN APPROACH SLAB
-Y1- POT 19+06.12

N 55° 35' 38.4" E

N 84° 11' 02.9" E

S 16° 43' 46.0" E

S 72° 23' 16.5" E

S 79° 51' 59" E

S 08° 46' 36" W 303.69'

S 53° 24' E

LEGEND

PAVED SHOULDER

APPROACH SLAB

PAVEMENT REMOVAL

FOR DITCH DETAILS, SEE SHEET NOS. 2-R THRU 2-S
FOR -L- PROFILE, SEE SHEET NO. 25
FOR -Y1- PROFILE, SEE SHEET NO. 44
FOR -Y3- PROFILE, SEE SHEET NO. 45
FOR -Y3A- PROFILE, SEE SHEET NO. 46
FOR PAVEMENT-BRIDGE RELATIONSHIP SKETCHES, SEE SHEET NO. 2-AC

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psheehan at HDUV24777700

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PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-27/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

FOR DITCH DETAILS, SEE SHEET NOS. 2-P THRU 2-T
FOR -L- PROFILE, SEE SHEET NO. 25 & 26
FOR -LCDWB- PROFILE, SEE SHEET NO. 31
FOR -Y3A- PROFILE, SEE SHEET NO. 46

-MATCHLINE- STA. 47+00.00 -L- SEE SHEET NO. 5

-MATCHLINE- STA. 61+00.00 -L- SEE SHEET NO. 7

NC GRID NAD 83

18 x 6 x 2
ID 6.1F

Temporary Rock Sediment Dam Type A 2 ft. weir height

1.5 inch Skimmer with 0.25 inch Orifice Diameter 4 ft. weir with 2 ft. weir height ID 6.3F (See Earthen Dam with Skimmer Detail)

-Y3A- PC 13+88.26

END CONSTRUCTION -Y3A- POC 15+50.00

-Y3A- PT 15+76.88

-Y3A- PC 16+64.96

-Y3A- PT 19+19.26

BEGIN CONSTRUCTION -Y3A- POT 26+00.00

-Y3A- PT 25+76.54

-LCDWB- PC 10+00.00 = -L- POT 51+10.00 (48' RT)

-LCDWB- PRC 14+45.83

-LCDWB- PT 18+91.67

BEGIN CONSTRUCTION -L- EBL -L- POT 56+50.00

-LCDEB- PC 13+30.75

-LCDEB- FUT. PC 14+31.82

-LCDEB- FUT. POT 10+00.00 = -L- POT 56+50.24 (48' RT) △ = 2°15'

-LCDEB- FUT. EB COLLECTOR-DISTRIBUTOR
PI Sta 15+98.03
△ = 2°18' 00.0" (LT)
D = 0°41' 31.1"
L = 332.38'
T = 166.21'
R = 8,280.00'
SE = 02

BEGIN PROP. SHOULDER BERM GUTTER +40.0 -LCDWB-

NOTE: APPROXIMATE LOCATION OF GAS LINE REDUCTION

LEGEND
- PAVED SHOULDER
- APPROACH SLAB
- PAVEMENT REMOVAL

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PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-28/CONST.7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-MATCHLINE- STA. 61+00.00 -L- SEE SHEET NO. 6

-MATCHLINE- STA. 75+00.00 -L- SEE SHEET NO. 8

NC GRID NAD 83

THE HOWARD FAMILY LIMITED PARTNERSHIP, ET. AL. DB 962 PG 1952

THE HOWARD FAMILY LIMITED PARTNERSHIP, ET. AL. DB 962 PG 1949

LOU M. BELL, ET. AL. DB 962 PG 1955

RUCHIKA, LLC DB 18219G 1494

KEITH S. RAINWATER, ET. AL. DB 1083 PG 795

ARTHUR OLAND DB 1679 PG 1708

PHYLLIS ELDER STEWART DB 786 PG 771

WILLIAM L. BOYD DB 1546 PG 2367

CITY OF STATESVILLE BOARD OF EDUCATION DB 323 PG 212

ROBERT GLENN HAITHCOX DB 467 PG 389

KELLY L. RUDISILL DB 671 PG 591

HARRY W. CAMPBELL DB 505 PG 241 W.S. FILE #99-647

WILLIAM LARRY CAMPBELL DB 1220 PG 713

LARRY J. SNODDY

NORTHVIEW PROFESSIONAL PARK CONDOMINIUMS DB 541 PG 575 DB 693 PG 836 DB 693 PG 809 DB 693 PG 783 DB 922 PG 1214

UTILIZE HAZARDOUS SPILL BASIN(S) AS SILT BASIN DURING CONSTRUCTION.

3 inch Skimmer with 2.75 inch Orifice Diameter ID 7.1F

DRY DETENTION BASIN

-Y3A- PC 30+58.14

-Y3A- PT 32+82.28

-Y3A- PRC 39+74.34

-Y3A- PC 35+46.78

-Y4RPB- TS 10+00.00 = -LCDWB- POC 33+04.06 (24' LT)

BEGIN 300' TAPER (LT) -LCDWB- STA.24+00.00

END 300' TAPER (LT) -LCDWB- STA.27+00.00

BEGIN PROP. SHOULDER BERM GUTTER +50.0 -Y3A-

-Y3A- N 80° 22' 32.4" E

-Y3A- N 79° 56' 28.9" E

-LCDWB- N 80° 12' 51.5" E

N 82° 30' 51.5" E

N 80° 12' 51.5" E

-L- PC 67+99.88

-LCDEB- FUT. PC 21+50.32

-LCDEB- FUT. PT 17+64.20

-Y4RPC- PC 7+72.50

-Y4RPC- FUT. POT 10+00.00= -LCDEB- POC 23+00.00 (24' RT) Δ = 2° 18'

-Y4RPC- FUT. PC 11+95.36

-Y4RPC- FUT. PT 14+10.34

-Y4RPC- PRC 13+83.43

-Y4RPC- FUTURE RAMP C

PI Sta 13+02.86
Δ = 2° 03' 10.3" (RT)
D = 0° 57' 17.7"
L = 214.98'
T = 107.50'
R = 6,000.00'
SE = 02
DS = 50 mph

-LCDEB- FUT. EB COLLECTOR-DISTRIBUTOR

PI Sta 15+98.03
Δ = 2° 18' 00.0" (LT)
D = 0° 41' 31.1"
L = 332.38'
T = 166.21'
R = 8,280.00'
SE = 02
DS = 55 mph

PI Sta 25+39.92
Δ = 2° 38' 12.7" (RT)
D = 0° 20' 18.5"
L = 779.06'
T = 389.60'
R = 16,928.00'
SE = NC
DS = 75 mph

NOTE: NOISE WALL LOCATIONS ARE SUBJECT TO CHANGE BASED ON APPROVAL. THEREFORE; WALL LOCATIONS SHOWN HAVE NOT BEEN COMPLETELY COORDINATED WITH HYDRO DESIGN.

LEGEND
- PAVED SHOULDER
- APPROACH SLAB
- PAVEMENT REMOVAL

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PROJECT REFERENCE NO. I-3819A
SHEET NO. EC-29/CONST.8
R/W SHEET NO. 9
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
NC GRID NAD 83
NOTE: UTILIZE SKIMMER BASIN OR SPECIAL STILLING BASIN AS STILLING BASIN WHERE APPLICABLE.
SEE SHEET NO. 20 -MATCHLINE- STA. 15+00.00 -Y8-
-MATCHLINE- STA. 35+00.00 -Y4- SEE SHEET NO. 20
SEE SHEET NO. 20 -MATCHLINE- STA. 14+50.00 -Y5-
-MATCHLINE- STA 75+00.00 -L- SEE SHEET NO. 7
-MATCHLINE- STA 104+00.00 -L- SEE SHEET NO. 9
-MATCHLINE- STA. 20+50.00 -Y4- SEE SHEET NO. 19
-Y8-
PI Sta 16+04.34
Δ = 72° 36' 06.8" (RT)
D = 10° 44' 58.8"
L = 675.39'
T = 391.54'
R = 533.00'
SE = .04
Runoff = 84'
DS = 40 mph
-Y8DRIVE-
PI Sta 11+60.31
Δ = 50° 15' 10.5" (RT)
D = 57° 17' 44.8"
L = 87.71'
T = 46.90'
R = 100.00'
SE = .04
Runoff = 63'
DS = 15 mph
-Y3A-
PI Sta 42+00.20
Δ = 18° 43' 24.3" (LT)
D = 4° 10' 55.8"
L = 447.70'
T = 225.86'
R = 1,370.00'
SE = .03
Runoff = 63'
DS = 40 mph
PI Sta 48+58.14
Δ = 10° 40' 12.9" (RT)
D = 14° 19' 26.2"
32 x 18 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
8 ft. weir
ID 8.3
12 x 32 x 3
1.5 inch Skimmer
with 0.375 inch
Orifice Diameter
5 ft. weir
ID 8.2
26 x 11 x 3
ID 8.1F
35 x 17 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
9 ft. weir
ID 8.4
UTILIZE HAZARDOUS SPILL BASIN(S) AS SILT BASIN DURING CONSTRUCTION.
4 inch Skimmer
with 3.375 inch
Orifice Diameter
ID 8.1DB
2.5 inch Skimmer
with 2.5 inch
Orifice Diameter
ID 8.2DB
PI Sta 17+11.43
Δ = 1° 39' 59.2" (RT)
D = 1° 08' 45.3"
L = 145.43'
T = 72.72'
R = 5,000.00'
SE = EXIST.
DS = 40 mph
PI Sta 21+82.25
Δ = 60° 14' 25.0" (LT)
D = 12° 02' 25.2"
L = 500.32'
T = 276.07'
R = 475.87'
SE = EXIST.
DS = 40 mph
-Y4RPC- RAMP C
PI Sta 15+83.52
Δ = 3° 16' 28.2" (LT)
D = 0° 49' 06.6"
L = 400.06'
T = 200.08'
R = 7,000.00'
SE = .02
DS = 50 mph
-Y4RPA- RAMP A
PI Sta 14+86.46
Δ = 2° 55' 58.2" (RT)
D = 0° 57' 17.7"
L = 307.13'
T = 153.60'
R = 6,000.00'
SE = .02
DS = 50 mph
PI Sta 71+91.14
Δ = 2° 38' 12.7" (RT)
D = 0° 20' 13.3"
L = 782.37'
T = 391.26'
R = 17,000.00'
SE = NC
DS = 75 mph
-LCDEB- FUT. EB COLLECTOR-DISTRIBUTOR
PI Sta 25+39.92
Δ = 2° 38' 12.7" (RT)
D = 0° 20' 18.5"
L = 779.06'
T = 389.60'
R = 16,928.00'
SE = NC
DS = 75 mph
PI Sta 33+22.29
Δ = 2° 38' 12.7" (LT)
D = 0° 20' 08.2"
L = 785.69'
T = 392.91'
R = 17,072.00'
SE = NC
DS = 75 mph
-LCDWB- WB COLLECTOR-DISTRIBUTOR
PI Sta 30+83.22
Δ = 2° 38' 12.7" (RT)
D = 0° 20' 08.2"
L = 785.69'
T = 392.91'
R = 17,072.00'
SE = NC
DS = 75 mph
PI Sta 38+65.60
Δ = 2° 38' 12.7" (LT)
D = 0° 20' 18.5"
L = 779.06'
T = 389.60'
R = 16,928.00'
SE = NC
DS = 75 mph
PIs Sta 11+33.38
θs = 4° 46' 28.7"
Ls = 200.00'
LT = 133.38'
ST = 66.71'
PIs Sta 16+30.66
θs = 4° 46' 28.7"
Ls = 200.00'
LT = 133.38'
ST = 66.71'
R = 1,200.00'
SE = .07
DS = 50 mph
PI Sta 17+43.39
Δ = 4° 24' 04.4" (RT)
D = 4° 46' 28.7"
L = 92.18'
T = 46.11'
R = 1,200.00'
SE = .07
DS = 50 mph
PIs Sta 13+63.99
θs = 4° 46' 28.7"
Ls = 200.00'
LT = 133.38'
ST = 66.71'
PIs Sta 18+56.17
θs = 4° 46' 28.7"
Ls = 200.00'
LT = 133.38'
ST = 66.71'
-Y4RPD- RAMP D
PIs Sta 7+96.17
θs = 2° 17' 30.6"
Ls = 200.00'
LT = 133.34'
ST = 66.68'
PI Sta 9+02.04
Δ = 1° 47' 50.3" (LT)
D = 2° 17' 30.6"
L = 78.42'
T = 39.21'
R = 2,500.00'
SE = .05
DS = 55 mph
PIs Sta 10+07.93
θs = 2° 17' 30.6"
Ls = 200.00'
LT = 133.34'
ST = 66.68'
PI Sta 21+28.55
Δ = 8° 11' 49.6" (RT)
D = 2° 16' 57.7"
L = 359.10'
T = 179.86'
R = 2,510.00'
SE = .03
DS = 40 mph
-Y4RPD- FUTURE RAMP D
PI Sta 13+34.45
Δ = 6° 22' 51.4" (LT)
D = 0° 57' 17.7"
L = 668.21'
T = 334.45'
R = 6,000.00'
SE = .02
DS = 50 mph
PI Sta 21+28.55
Δ = 8° 11' 49.6" (RT)
D = 2° 16' 57.7"
L = 359.10'
T = 179.86'
R = 2,510.00'
SE = .03
DS = 40 mph
FOR -L- PROFILE, SEE SHEET NO. 26 & 27
FOR -LCDWB- PROFILE, SEE SHEET NO. 31 & 32
FOR -Y3A- PROFILE, SEE SHEET NO. 47
FOR -Y2DW- PROFILE, SEE SHEET NO. 45
FOR -Y4- PROFILE, SEE SHEET NO. 47 & 48
FOR -Y4RPA- PROFILE, SEE SHEET NO. 49
FOR -Y4RPB- PROFILE, SEE SHEET NO. 50
FOR -Y4RPC- PROFILE, SEE SHEET NO. 51
FOR -Y4RPD- PROFILE, SEE SHEET NO. 52
FOR -Y5- PROFILE, SEE SHEET NO. 53
FOR -Y8- PROFILE, SEE SHEET NO. 56
FOR DITCH DETAILS, SEE SHEET NOS. 2-R THRU 2-S
FOR PAVEMENT-BRIDGE RELATIONSHIP SKETCHES, SEE SHEET NO. 2-AS
FOR DETAIL OF BASINS, SEE SHEET NOS. 2-T THRU 2-AF
FOR -Y4- DETAIL, SEE SHEET 2-CH
LEGEND
PAVED SHOULDER
APPROACH SLAB
PAVEMENT REMOVAL
GRAPHIC SCALE
50 25 0 50 100
PLANS
LOCATION: I-40/I-77 INTERCHANGE INCLUDING I-40 WEST OF SR 2003 (Radio Rd) TO SR 2158 (Old Mocksville Rd) & I-77 FROM SOUTH OF SR 2321 (East Broad St) TO SOUTH OF SR 2171 (Jane Sower Rd)
TIP NO.: I-3819A
COUNTY: IREDELL
DESIGNED BY:
CHECKED BY:
DATE:

PROJECT REFERENCE NO. I-3819A
SHEET NO. EC-30/CONST.9
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
NC GRID NAD 83
EXCEL REALTY TRUST -- NC DB 985 PG 678
EXCEL REALTY TRUST -- NC DB 1007 PG 125
EXCEL REALTY TRUST -- NC DB 1007 PG 122
R&M PROPERTIES DB 877 PG 1533
GENERAL MILLS RESTAURANTS, INC. DB 905 PG 2335
MOORESVILLE LODGING, LLC DB 1804 PG 1781
DOOSAN INTERNATIONAL USA, INC. DB 1906 PG 2178-2180
RAHAB LAND COMPANY, INC. DB 996 PG 628
DUKE ENERGY COMPANY POWER TRANSMISSION LINE R/W = 68 FEET WIDE
-MATCHLINE- STA. 104+00 -L- SEE SHEET NO. 8
-MATCHLINE- STA. 24+00 -YRPBD- SEE SHEET NO.15
-MATCHLINE- STA. 147+00 -Y- SEE SHEET NO. 15
-MATCHLINE- STA. 133+00 -L- SEE SHEET NO. 10
-MATCHLINE- STA. 135+00 -Y- SEE SHEET NO. 14
BEGIN CONSTRUCTION -Y5- POT 38+90.00
BEGIN CONSTRUCTION (YLPB) -YLPB- POC 18+50.00 TIE TO EXISTING PAVEMENT
END CONSTRUCTION -L- POT 126+00.00 BEGIN OVERLAY
END CONSTRUCTION (YRPC) -YRPC- POT 22+60.00 TIE TO EXISTING PAVEMENT
36 x 12 x 3 ID 9.4F
50 x 22 x 3 1.5 inch Skimmer with 0.875 inch Orifice Diameter 14 ft. weir ID 9.2
140 x 40 x 3 2.5 inch Skimmer with 2.125 inch Orifice Diameter 32 ft. weir ID 9.1F
40 x 38 x 3 1.5 inch Skimmer with 1.25 inch Orifice Diameter 22 ft. weir ID 9.2F
64 x 32 x 3 1.5 inch Skimmer with 1.25 inch Orifice Diameter 24 ft. weir ID 9.3F
40 x 20 x 3 1.5 inch Skimmer with 0.75 inch Orifice Diameter 12 ft. weir ID 9.1
1.5 inch Skimmer with 1.0 inch Orifice Diameter ID 9.1DB
UTILIZE DRY DETENTION BASIN(S) AS SILT BASIN DURING CONSTRUCTION.
Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.
AREA TO BE CLEARED, GRUBBED, & MAINTAINED AS CLEARED AREA
B
C
FOR -L- PROFILE, SEE SHEET NO. 28
FOR -LCDWB- PROFILE, SEE SHEET NO. 33
FOR -Y- PROFILE, SEE SHEET NO. 34
FOR -YRPBD PROFILE, SEE SHEET NO. 39
FOR -YRPB- PROFILE, SEE SHEET NO. 41
FOR -YLPB- PROFILE, SEE SHEET NO. 41
FOR -YRPC- PROFILE, SEE SHEET NO. 42
FOR -Y5- PROFILE, SEE SHEET NO. 54 & 55
FOR DITCH DETAILS, SEE SHEET NOS. 2-R THRU 2-S
FOR GORE AREA DETAILS, SEE SHEET NOS. 2-AM THRU 2-AR
LEGEND
PAVED SHOULDER
PAVEMENT REMOVAL
GRAPHIC SCALE
50 25 0 50 100
PLANS
LOCATION: I-40/I-77 INTERCHANGE INCLUDING I-40 WEST OF SR 2003 (Radio Rd) TO SR 2158 (Old Mocksville Rd) & I-77 FROM SOUTH OF SR 2321 (East Broad St) TO SOUTH OF SR 2171 (Jane Sowers Rd)
TIP NO.: I-3819A
COUNTY: IREDELL
DESIGNED BY:
CHECKED BY:
DATE:
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PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-31/CONST.10
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE: UTILIZE SKIMMER BASIN OR SPECIAL STILLING BASIN WHERE APPLICABLE.

NC GRID NAD 83

-MATCHLINE- SEE SHEET NO. 15

-MATCHLINE- STA. 36+00 -YRPBD-

-MATCHLINE- SEE SHEET NO. 14

-MATCHLINE- STA. 133+00 SEE SHEET NO. 9

-MATCHLINE- STA. 162+00 SEE SHEET NO. 11

A

D

-YRPA- (FUTURE)
PI Sta 10+42.39
Δ = 1°56'00.9" (LT)
D = 2°16'51.2"
Ls = 200.00'
LT = 133.34'
T = 42.39'
ST = 66.68'
R = 2512.00'

-YRPA- (FUTURE)
PI Sta 11+54.45
Θs = 2°16'51.2"
Ls = 200.00'
LT = 133.34'
ST = 66.68'

-YRPA- (FUTURE)
PI Sta 14+63.20
Θs = 6°30'39.2"
Ls = 200.00'
LT = 133.42'
ST = 66.75'

-YRPA- (FUTURE)
PI Sta 19+50.37
Δ = 51°05'37.5" (RT)
D = 6°30'39.2"
L = 784.70'
T = 420.66'
R = 880.00'

-YRPAC- (FUTURE)
PI Sta 22+85.63
Θs = 2°17'30.6"
Ls = 200.00'
LT = 133.34'
ST = 66.68'

-YRPAC- (FUTURE)
PI Sta 55+99.15
Δ = 104°48'33.5" (LT)
D = 2°17'30.6"
L = 4573.17'
T = 3246.85'
R = 2500.00'

-YRPA- SC 13+95.81

-YRPAB- ST 23+39.56

-YRPA- CS 11+95.81

-YRPA- PC 10+00.00 =
-YRPAB- CS 21+39.56, 12.0 RT

-YRPA- SC 15+29.77 (FUTURE)

-YRPA- TS 13+29.77 (FUTURE)

-YRPA- ST 12+84.77 (FUTURE)

-YRPA- CS 10+84.77 (FUTURE)

-YRPA- PC 28+40.00 =
-YRPAC- POT 28+40.00, 82' LT.
Δ = 2°18'

-YRPAC- SC 23+52.29 (FUTURE)

-YRPAC- TS 21+52.29 (FUTURE)

-YRPAC- ST 17+22.89 (FUTURE)

-YRPAB- SC 13+70.95

-YRPAB- TS 11+70.95

-YRPAB- POT 10+00.00 =
-L- POT 153+75.10, 42' LT.
Δ = 2°18'00"

END CONSTRUCTION (WBL)
-L- POT 158+00.20
TIE TO EXISTING PAVEMENT

-YRPAC- (FUTURE)
PI Sta 41+53.05
Δ = 94°37'00.3" (LT)
D = 3°29'37.1"
L = 2708.25'
T = 1777.77'
R = 1640.00'

-L- POT 131+86.80
-YRPBD- POT 49+02.32
Δ = 88°29'40.2"

-L- POT 138+90.37
BEGIN APPROACH SLAB

-L- POT 136+00.00
END OVERLAY
BEGIN CONSTRUCTION

-L- POT 139+15.37
BEGIN BRIDGE

-L- POT 140+84.33
END APPROACH SLAB

-L- POT 140+59.33
END BRIDGE

-YRPBD- PT 49+03.76, 8' RT. LL
-YRPBD- PC 49+03.76 LA

-YRPBD- CS 49+03.76 (FUTURE)

-YRPBD- CS 49+83.39

-YRPD- PC 15+29.40

-YRPD- TS 15+29.40

-YRPD- SC 12+00.00 (FUTURE)

-YRPD- CS 8+84.52

-YRPD- SC 7+47.76

-YRPD- TS 5+47.76
-L- 159+13.59, 42.0' RT

-YRPD- POC 15+33.31
BEGIN APPROACH SLAB

-YRPD- POC 15+57.00
BEGIN BRIDGE

-YRPD- POC 17+17.60
END BRIDGE

-YRPD- CS 24+75.88

-YRPD- CS 25+97. (FUTURE)

-YRPD- ST 26+75.88

-YRPD- ST 27+97.50 (FUTURE)

-YRPD- PC 28+01.99

-YRPD- (FUTURE)
PI Sta 11+33.34
Δ = 2°09'43.6"
D = 2°00.0'
LT = 133.34'
ST = 66.68'

-YRPD- (FUTURE)
PI Sta 19+15.41
Δ = 30°12'55.3" (LT)
D = 2°09'43.6"
L = 1,397.50'
T = 715.41'
R = 2,650.00'

-YRPD- (FUTURE)
PI Sta 26+64.07
Θs = 2°09'43.6"
Ls = 200.00'
LT = 133.34'
ST = 66.68'

-LCDEB- (FUTURE)
PI Sta 96+35.46
Δ = 0°55'40.7" (LT)
D = 0°15'02.3"
L = 370.36'
T = 185.18'
R = 22,860.00'

-LCDEB- (FUTURE)
PI Sta 100+05.82
Δ = 0°55'40.7" (RT)
D = 0°15'02.3"
L = 370.36'
T = 185.18'
R = 22,860.00'

-LCDEB- PRC 98+20.64

-LCDEB- POT 108+40.25, 26' RT.

62 x 30 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
20 ft. weir
ID 10.6

30 x 70 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
22 ft. weir
ID 10.1F

80 x 33 x 3
1.5 inch Skimmer
with 1.5 inch
Orifice Diameter
20 ft. weir
ID 10.2F

30 x 12 x 3
ID 10.3F

3 inch Skimmer
with 2.75 inch
Orifice Diameter
ID 10.1DB

Modified Silt Basin
Type 'B'
33 x 19 x 3
(See Tiered Skimmer
Basin Detail)
ID 10.5

33 x 19 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
11 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 10.5

DRY DETENTION BASIN
MINIMUM REQUIRED
VOLUME = 23500 CF

UTILIZE DRY DETENTION BASIN(S) AS
WET BASIN DURING CONSTRUCTION

THE Dr. J. H. PRESSLY ESTATE
DB 1653 PG 171
"FIRST TRACT"

JAMES FARMS, INC.
DB 336 PG 412

THE MARY W. KING ESTATE
DB 640 PG 145

RIGBY & HUSKEY PROPERTIES, LLC
DB 1852 PG 710
"TRACT 7"

RIGBY & HUSKEY PROPERTIES, LLC
DB 1852 PG 710
"TRACT 5"

RIGBY & HUSKEY PROPERTIES, LLC
DB 1852 PG 710
"TRACT 6"

KEITH A. STUTTS ET AL
DB 2005 PG 0037

A.J. CAUSEY FAMILY LIMITED PARTNERSHIP
DB 1222 PG 1409
"FIRST TRACT"

A.J. CAUSEY FAMILY LIMITED PARTNERSHIP
DB 1222 PG 1409
"SECOND TRACT"

T CO., LLC
2253

FOR L- PROFILE, SEE SHEET NOS. 29 & 30
FOR -YRPAB- PROFILE, SEE SHEET NO. 39
FOR -YRPA- PROFILE, SEE SHEET NO. 37
FOR -YRPAC- PROFILE, SEE SHEET NOS. 38 & 40
FOR -YRPD- PROFILE, SEE SHEET NO. 43
FOR DITCH DETAILS, SEE SHEET NOS. 2-11 THRU 2-15
FOR GORE AREA DETAILS, SEE SHEET NOS. 2-AM THRU 2-AP

LOCATION: I-40/I-77 INTERCHANGE INCLUDING I-40 WEST OF SR 2003 (Radio Rd.) TO SR 2108 (Old Mocksville Rd.) & I-77 FROM SOUTH OF SR 2321 (East Broad St.) TO SOUTH OF SR 2173 (Gene Sowers Rd.)

TIP NO.: I-3819A COUNTY: IREDELL

GRAPHIC SCALE
50 25 0 50 100
PLANS

DESIGNED BY:

CHECKED BY: DATE:

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8/17/99

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-32/CONST.II
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

-YRPAC- (FUTURE)

PIs Sta 12+53.36	PI Sta 14+21.60	PIs Sta 15+89.59
Θs = 3° 47' 39.9"	Δ = 7° 41' 55.1" (RT)	Θs = 3° 47' 39.9"
Ls = 200.00'	D = 3° 47' 39.9"	Ls = 200.00'
LT = 133.36'	L = 202.89'	LT = 133.36'
ST = 66.69'	T = 101.60'	ST = 66.69'
	R = 1,510.00'	

THE Dr. J. H. PRESSLY ESTATE
DB 1653 PG 1771
"FIRST TRACT"

NC GRID NAD 83

-MATCHLINE- STA. 162+00 -L- SEE SHEET NO. 10

-MATCHLINE- STA. 176+00 -L- SEE SHEET NO. 12

-YRPAC- CS 15+22.89 (FUTURE)

-YRPAC- SC 13+20.00 (FUTURE)

-YRPAC- TS 11+20.00 (FUTURE)

(FUTURE) -YRPAC- POT 10+00.00 = -L- POT 168+75.00 ,60' LT. Δ = 2° 18'

PUE

OBLITERATE AND GRADE TO DRAIN

PROP.WW FENCE

4SBW

RETAIN

18" RCP

24" DI

3 TONS CLASS B RIP RAP
10 SY FILTER FABRIC

165+22.87
129.99' LT

BRKHWY

82° 30' 51.5" W

BEGIN 12' PAVED SHOULDER -L- STA.170+55.00

REMOVE EXISTING PAVEMENT (GRADE TO DRAIN)

EXISTING R/W

173+60
122' RT

175+53
177' LT

SAW CUT PAVEMENT 12' OUTSIDE EDGE OF TRAVEL LANE

REMOVE EXISTING GUARDRAIL

PROP.DBL.FACED CABLE GUIDERAIL

N 80° 12' 51.5" E

165

170

175

-L-

TIE CABLE GUIDERAIL TO EXISTING

15" RCP

140 WBL BST

140 EBL CONC

3S CABLE

REMOVE EXISTING CABLE GUIDERAIL

COLLAR (1103)

REMOVE EXISTING PAVEMENT

CONC

BEGIN 300' LANE TAPER -L- POT 165+20.00

18" RCP W/ELBOWS, FS-III ROD & LUG CONNECTORS W/SLEEVES

SPECIAL CUT DITCH SEE DETAIL AB

300' LANE TAPER POT 168+20.00

100' TAPER TO EXIST.

SAW CUT PAVEMENT 12' OUTSIDE EDGE OF TRAVEL LANE

-LCDEB- PT 128+91.95 (FUTURE)

SEE DETAIL

-L- POT 175+41.24, 48' RT.

72"CHL & 3SBW

48" WW & ISBW

-LCDEB- PC 120+00.31 (FUTURE)

STANDARD BERM DITCH SEE DETAIL Z

REMOVE AND GRADE TO DRAIN

-LCDEB- PRC 124+46.15 (FUTURE)

END CONSTRUCTION (EBL) -L- POT 170+00.00 TIE TO EXISTING PAVEMENT

STD. BERM DITCH w/ 112 TONS CLASS B RIP RAP 277 SY FILTER FABRIC SEE DETAIL G

The Dr. J.H. PRESSLY ESTATE
DB 1653 PG 1771
"SECOND TRACT"

A.J. CAUSEY FAMILY LIMITED PARTNERSHIP
DB 1222 PG 1409
"FIRST TRACT"

ROBERT B. CASHION, ET. AL.
DB 726 PG 958

JAMES RENTALS, L.L.C.
DB 1714 PG 271
DB 760 PG 854

VOLK FAMILY LIMITED PARTMERSHIP
DB 1177 PG 2053

MATHURDAS MAHIDAS KOTHADIA
DB 985 PG 2004
"TRACT 2"

ISBLKBUS
ISMTLBUS
ISMTL BUS
ISBLK BUS
BST
CONC
GR
GUY
EIP
MH

-LCDEB- (FUTURE)

PI Sta 122+23.28	PI Sta 126+69.12
Δ = 3° 05' 06.3" (LT)	Δ = 3° 05' 06.3" (RT)
D = 0° 41' 31.1"	D = 0° 41' 31.1"
L = 445.83'	L = 445.83'
T = 222.97'	T = 222.97'
R = 8,280.00'	R = 8,280.00'

LEGEND
PAVED SHOULDER
PAVEMENT REMOVAL

FOR -L- PROFILE, SEE SHEET NO. 30
FOR DITCH DETAILS, SEE SHEET NOS. 2-R THRU 2-S

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PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-33/CONST12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NC GRID NAD 83

-MATCHLINE- STA. 176+00 -L- SEE SHEET NO. 11

-MATCHLINE- STA. 190+00 -L- SEE SHEET NO. 13

DITCH CLEAN OUT

5 TONS CLASS B RIP RAP
14 SY FILTER FABRIC

THE Dr. J. H. PRESSLY ESTATE
DB 1653 PG 1771
"FIRST TRACT"

CENTER CUL-DE-SAC
-L- STA.180+80.20, 201.96' LT.

ADJUST RIM TO ELEV 885.00'

GRADE TO DRAIN APPROX. 4.25% SLOPE

REMOVE EXISTING PAVEMENT (GRADE TO DRAIN)

PROP.WW FENCE

REMOVE EXISTING GUARDRAIL

REMOVE EXISTING PAVEMENT

-L- STA.177+84.76
TIE TO EXISTING PAVED SHOULDER

GRADE TO DRAIN APPROX. 1.39% SLOPE

TIE TO EXISTING FENCE

RETAIN REPLACE CONC APRON AND REGRADE DITCH AROUND APRON

-L- STA.176+58.34
TIE TO EXISTING PAVED SHOULDER

CAROLINA FARM CREDIT, ACA
DB 1502 PG 804

CAROLINA F CREDIT, AC
DB 1677 PG

MATHURDAS MAHIDAS KOTHADIA
DB 985 PG 2004
"TRACT 2"

MATHURDAS MAHIDAS KOTHADIA
DB 985 PG 2004
"TRACT 1"

DIETER J. LOHRMANN
ULRICH H. LOHRMANN
DB 1401 PG 1370

TIE TO EXIST. FENCE
+87.89 -Y10A-

BEGIN CONSTRUCTION
-Y10A- POT 11+00.00

-Y10A- POT 10+00.00

-Y10A- PC 16+10.32

-Y10ART- PC 10+00.00 =
-Y10A- POT 16+05.89, 4' RT.

-Y10A- CS 19+99.09

-Y10ART- PT 13+58.21

EDWARD RAY HARMON
DB 538 PG 86

EDWARD RAY HARMON
DB 978 PG 177

TONY L. BREWER
DB 1689 PG 1041

HANS J. VOELSKE
DB 1046 PG 2272

HAAS / CARTER REAL ESTATE, LLC
DB 1148 PG 2105

TRAVIS CARTER PROPERTIES, L.L.P.
DB 1112 PG 1111

3 TONS CLASS B RIP RAP
10 SY FILTER FABRIC

SW1 STATESVILLE MAPLE LEAF HILL

N 54° 16' 51.8" E

-L- N 80° 12' 51.5" E

LEGEND

PAVED SHOULDER

PAVEMENT REMOVAL

FOR -Y10A- PROFILE, SEE SHEET NO. 57
FOR -Y10ART- PROFILE, SEE SHEET NO. 57
FOR DITCH DETAILS, SEE SHEET NOS. 2-R THRU 2-S

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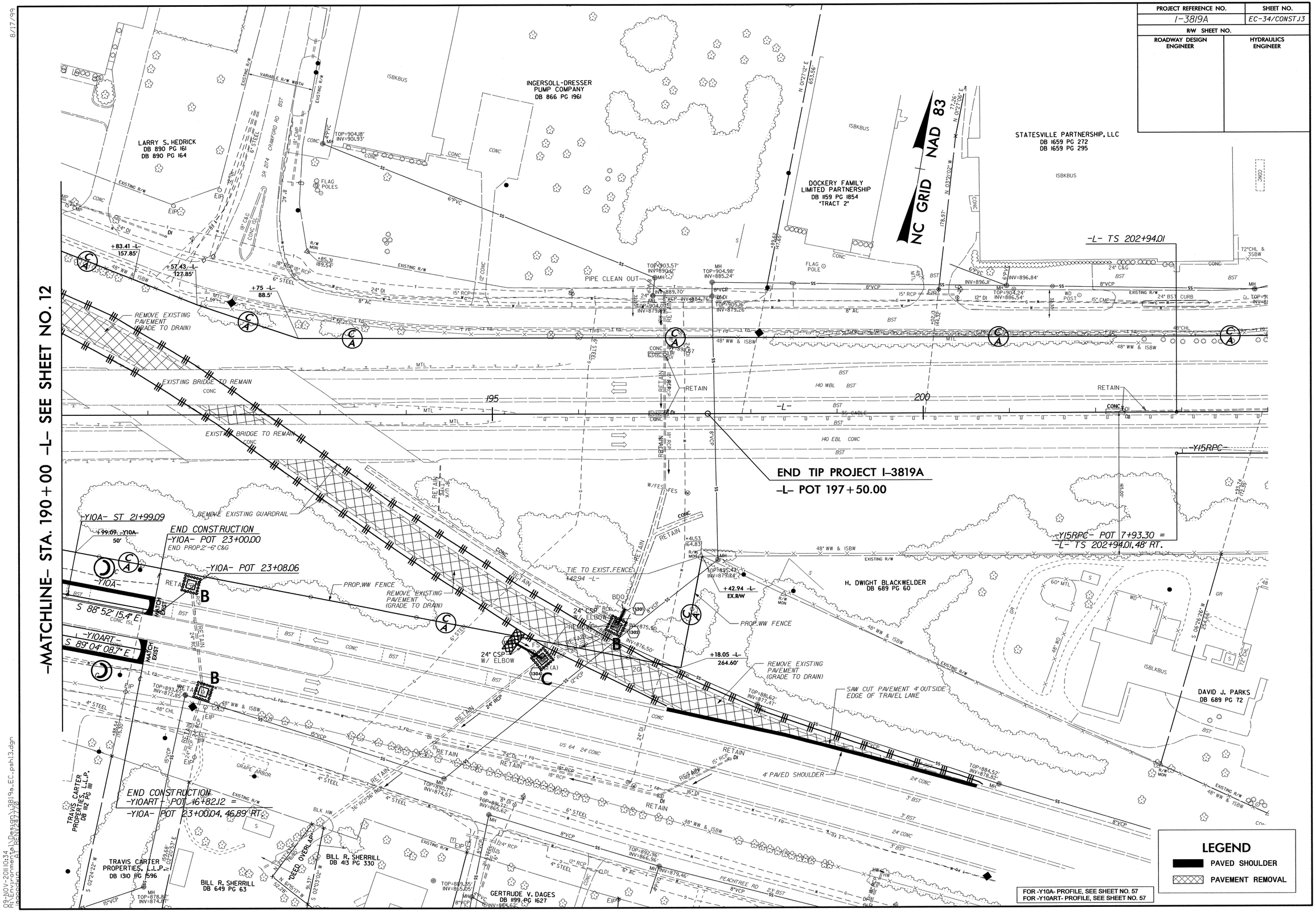
PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-34/CONST.13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



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PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-35/CONST.14
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE: UTILIZE SKIMMER BASIN OR SPECIAL STILLING BASIN WHERE APPLICABLE.

NC GRID — NAD 83

-MATCHLINE- STA. 135+00 -Y-
SEE SHEET NO. 9

-MATCHLINE-
SEE SHEET NO. 10

END CONSTRUCTION (Y NBL)
-Y- POT 132+00.00
TIE TO EXISTING PAVEMENT

BEGIN CONSTRUCTION (Y NBL)
-Y- POT 122+41.65
TIE TO EXISTING PAVEMENT

-YRPBD- ST 514+03.76 (FUTURE)

-YRPBD- POT 31+49.42 =
-YRPBD- ST 514+83.39,12 LT.

-YRPBD- POT 32+77.59 =
-YRPBD- POT 531+51.00 ,12 LT.
Δ = 2°18'04"

-YRPBD- TS 531+53.76 (FUTURE)

-YRPBD- TS 531+49.35

-YRPBD- SC 55+49.35

-YRPBD- SC 55+73.76 (FUTURE)

-YRPBD- CS 61+87.41

-YRPBD- POT 64+45.83 =
-Y- POT 124+52.00.385 RT.
Δ = 3°30'35"

-YRPBD- ST 63+87.41

-YRPBD- CS 63+49.54 (FUTURE)

-YRPBD- SCL 65+49.54 (FUTURE)

-YRPBD- (FUTURE)

Pl Sta 49+70.51	Pl Sta 55+00.47	Pl Sta 59+70.41	Pl Sta 64+16.24
θs = 6°49'15.3"	θs = 4°10'25.9"	Δ = 25°28'11.3" (LT)	θs = 3°41'39.9"
Ls = 200.00'	Ls = 220.00'	D = 3°41'39.9"	Ls = 200.00'
LT = 133.43'	LT = 146.71'	L = 775.78'	LT = 133.36'
ST = 66.76'	ST = 73.37'	T = 396.65'	ST = 66.69'
		R = 1,510.00'	

-YRPC- (FUTURE)

Pl Sta 22+01.54	Pl Sta 28+25.42	Pl Sta 30+92.04
Δ = 12°07'46.8" (RT)	θs = 5°27'24.3"	θs = 2°21'39.9"
D = 5°27'24.3"	Ls = 200.00'	Ls = 200.00'
L = 1,321.84'	LT = 133.40'	LT = 133.34'
T = 764.89'	ST = 66.72'	ST = 66.68'
R = 1,050.00'		

-YRPAC- (FUTURE)

Pl Sta 55+99.15	Pl Sta 69+92.13
Δ = 104°48'33.5" (LT)	θs = 2°11'30.6"
D = 2°11'30.6"	Ls = 200.00'
L = 4,513.31'	LT = 133.34'
T = 3,246.86'	ST = 66.68'
R = 2,500.00'	

-YRPBD- (FUTURE)

Pl Sta 49+70.51	Pl Sta 55+00.47	Pl Sta 59+70.41	Pl Sta 64+16.24
θs = 6°49'15.3"	θs = 4°10'25.9"	Δ = 25°28'11.3" (LT)	θs = 3°41'39.9"
Ls = 200.00'	Ls = 220.00'	D = 3°41'39.9"	Ls = 200.00'
LT = 133.43'	LT = 146.71'	L = 775.78'	LT = 133.36'
ST = 66.76'	ST = 73.37'	T = 396.65'	ST = 66.69'
		R = 1,510.00'	

-YRPAC- (FUTURE)

Pl Sta 55+99.15	Pl Sta 69+92.13
Δ = 104°48'33.5" (LT)	θs = 2°11'30.6"
D = 2°11'30.6"	Ls = 200.00'
L = 4,513.31'	LT = 133.34'
T = 3,246.86'	ST = 66.68'
R = 2,500.00'	

86 x 40 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
30 ft. weir
ID 14.2

43 x 16 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
8 ft. weir
ID 14.1

-YRPC- (FUTURE)

-YRPC- SRS 2+15870 (FUTURE)

-YRPC- CS 21+15870 (FUTURE)

-YRPAC- CS 69+25.45 (FUTURE)

(FUTURE)
-YRPBD- POT 69+09.64 =
-YT- POT 119+52.3.48 RT. Δ = 2°18'00"

RAHAB LAND COMPANY, INC.
DB 996 PG 628

THE CITY OF STATESVILLE, N.C.
DB 1376 PG 1777

CRAFT HOMES USA, LLC
DB 1227 PG 1796

SHARON M. McADAMS
DB 1311 PG 1405

PETER VANDERMARK
DB 1606 PG 2218

G. L. WILSON BUILDING COMPANY
DB 628 PG 36
DB 724 PG 168

CITY OF STATESVILLE
DB 1877 PG 454

SPEK INVESTMENT CO., LLC
DB 692 PG 2253

DUKE ENERGY CORP.
R/W VARIABLE WIDTH
TOWER LINE & TRANSMISSION LINE

SOUTHERN RAILWAY CO.
R/W VARIABLE WIDTH

R/R + 30 TIES WIDE
SOUTHERN RAILWAY CO.
CITY OF STATESVILLE

TRENCHLESS INSTALLATION TOWEDGE STEEL PIPE
PLUS UNIT FILL
W/ PLUNABLE FILL

2 TONS CLASS B RIP RAP
1 SY FILTER FABRIC

3 TONS CLASS B RIP RAP
28 SY FILTER FABRIC

5' LATERAL BASE EXTEN.
W/400 TONS CLASS B RIP RAP
625 SY FILTER FABRIC

PROPOSED 36" C.M.P. (SEE DRAINAGE DETAILS)

2 TONS CLASS B RIP RAP
1 SY FILTER FABRIC

CONCRETE COLLAR SEE DETAIL

REMOVE EXISTING PAVEMENT

CONCRETE APRON SEE DETAIL

REMOVE 10' OF EXISTING PIPE

RETAIN

SWAMP

LEGEND
PAVED SHOULDER
PAVEMENT REMOVAL

GRAPHIC SCALE
50 25 0 50 100
PLANS

FOR-Y- PROFILE, SEE SHEET NO. 34
FOR-YRPBD PROFILE, SEE SHEET NO. 40
FOR-YRPD- PROFILE, SEE SHEET NO. 43
FOR DITCH DETAILS, SEE SHEET NOS. 2-AA THRU 2-AE
FOR GORE AREA DETAILS, SEE SHEET NOS. 2-AM THRU 2-AP

LOCATION: I-40/I-77 INTERCHANGE INCLUDING I-40 WEST OF SR 2003 (Rodio Rd) TO SR 2158 (Old Mocksville Rd) & I-77 FROM SOUTH OF SR 2321 (East Broad St) TO SOUTH OF SR 2171 (Jane Sower Rd)

TIP NO.: I-3819A COUNTY: IREDELL

DESIGNED BY:

CHECKED BY: DATE:

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PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-36/CONST.15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NC GRID NAD 83

-MATCHLINE- STA. 161+00 -Y- SEE SHEET NO. 16

-YRPB- ST 26+49.49

END CONSTRUCTION
-Y5- POT 67+00.00

-YRPB- CS 24+43.49

-Y5- PT 65+56.66

-YRPB- (FUTURE)
PI Sta 20+89.54
Δ = 29°06'03.9" (LT)
D = 3°22'13.2"
L = 863.45'
T = 441.25'
R = 1700.00'
Pts Sta 25+78.42
Θs = 3°22'13.2"
Ls = 200.00'
LT = 133.36'
ST = 66.69'

-YRPA- (FUTURE)
PI Sta 19+50.37
Δ = 5°05'27.5" (RT)
D = 6°30'39.2"
L = 784.70'
T = 400.60'
R = 880.00'
Pts Sta 24+03.26
Θs = 3°15'56.6"
Θs = 6°30'41.7"
Ls = 200.00'
LT = 116.68'
ST = 88.79'
PI Sta 27+87.82
Δ = 11°16'10.9" (RT)
D = 3°15'59.2"
L = 542.54'
T = 273.34'
R = 1800.00'
Pts Sta 31+23.70
Θs = 3°15'59.2"
Ls = 200.00'
LT = 133.35'
ST = 66.69'

-YRPCA- (FUTURE)
PI Sta 41+53.05
Δ = 94°37'00.3" (LT)
D = 3°59'37.7"
L = 2708.25'
T = 1717.77'
R = 1640.00'
Pts Sta 51+50.22
Θs = 3°59'37.7"
Ls = 200.00'
LT = 133.36'
ST = 66.69'

-YRPA- CS 30+51.05 (FUTURE)

-YRPA- CS 25+14.47 (FUTURE)

-YRPA- CS 18+94.40 (FUTURE)

-YRPA- CS 23+14.47 (FUTURE)

-YRPA- (FUTURE)

-YRPCA- ST 52+83.53 (FUTURE)

-YRPCA- CS 50+83.53 (FUTURE)

-YRPA- ST 20+94.40

-YRPB- SC 16+48.29

-Y5- PC 67+02.39

-YRPB- TS 14+48.29

-YRPBD- PCC 30+42.48
-Y- POT 150+45.40
Δ = 85°55'39.7"

-YRPB- TS 28+44.00

-YRPBD- TS 28+44.00

-YRPBD- SC 32+44.00

-YRPBD-

-YRPBD- CS 34+44.00

-YRPBD- ST 36+44.00

-Y- BEGIN APPROACH SLAB
STA 149+52.74
POT 149+52.74
(SEE DETAIL FOR WELDBARRIER)

END APPROACH SLAB
-Y- POT 151+22.56
END DBL-FACED W/CL-BARRIER

END BRIDGE
-Y1- POT 150+96.40

-Y1- PC 151+40.00
-Y1- PT 152+16.26

-Y1- BEGIN APPROACH SLAB
STA 153+16.26
POT 153+16.26
(SEE DETAIL FOR WELDBARRIER)

-Y1- ST 154+16.26

-Y1- CS 155+16.26

-Y1- SC 157+16.26

-Y1- CS 158+16.26

-Y1- ST 159+16.26

-MATCHLINE- SEE SHEET NO. 10

-MATCHLINE- STA. 24+00 -YRPBD- SEE SHEET NO. 9

-MATCHLINE- STA. 147+00 -Y- SEE SHEET NO. 9

-MATCHLINE- STA. 36+00 -YRPBD- SEE SHEET NO. 10

Place Matting for Erosion Control on Slope as Work Allows.

Place Matting for Erosion Control on Slope as Work Allows.

Modified Silt Basin Type 'B'
35 x 23 x 3
(See Tiered Skimmer Basin Detail)
ID 15.1F

35 x 23 x 3
1.5 inch Skimmer with 1.0 inch Orifice Diameter
15 ft. weir
(See Tiered Skimmer Basin Detail)
ID 15.1F

52 x 26 x 3
1.5 inch Skimmer with 1.0 inch Orifice Diameter
16 ft. weir
ID 15.4

48 x 12 x 3
ID 15.4F

1.5 inch Skimmer with 0.5 inch Orifice Diameter
4 ft. weir with
2 ft. weir height
ID 15.2F
(See Earthen Dam with Skimmer Detail)

1.5 inch Skimmer with 0.25 inch Orifice Diameter
4 ft. weir with
2 ft. weir height
ID 15.3F
(See Earthen Dam with Skimmer Detail)

DOOSAN INTERNATIONAL USA, INC.
DB 1906 PG 2178-2180

JAMES FARMS, INC.
DB 336 PG 42

THE Dr. J. H. PRESSLY ESTATE
DB 1653 PG 171
"FIRST TRACT"

FOR -Y- PROFILE, SEE SHEET NOS. 34 & 35
FOR -YRPA- PROFILE, SEE SHEET NO. 37
FOR -YRPA- PROFILE, SEE SHEET NO. 38
FOR -YRPBD PROFILE, SEE SHEET NO. 39
FOR -YRPB- PROFILE, SEE SHEET NO. 41
FOR -Y1- PROFILE, SEE SHEET NO. 42
FOR DITCH DETAILS, SEE SHEET NOS. 2-11 THRU 2-13
FOR GORE AREA DETAILS, SEE SHEET NOS. 2-AM THRU 2-AP

LOCATION: I-40/I-77 INTERCHANGE INCLUDING I-40 WEST OF SR 2002 (Rufin Rd) TO SR 2108 (Old Mocksville Rd) & I-77 FROM SOUTH OF SR 2321 (East Broad St) TO SOUTH OF SR 2171 (Lone Sower Rd)

TIP NO.: I-3819A COUNTY: IREDELL

DESIGNED BY:

CHECKED BY: DATE:

LEGEND
PAVED SHOULDER
APPROACH SLAB
PAVEMENT REMOVAL

GRAPHIC SCALE
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PLANS

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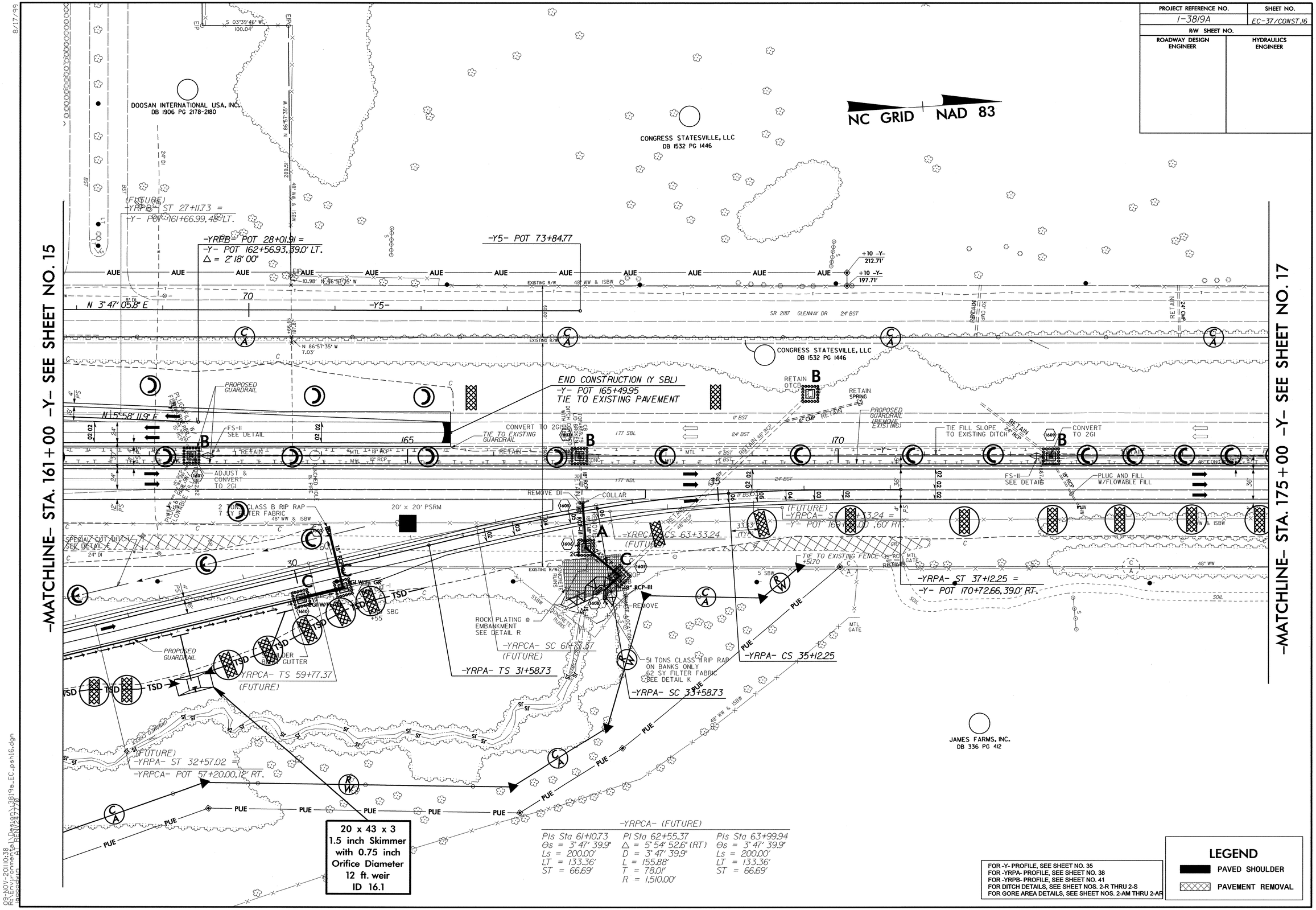
PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-37/CONST.16
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



FOR -Y- PROFILE, SEE SHEET NO. 35
FOR -YRPA- PROFILE, SEE SHEET NO. 38
FOR -YRPB- PROFILE, SEE SHEET NO. 41
FOR DITCH DETAILS, SEE SHEET NOS. 2-R THRU 2-S
FOR GORE AREA DETAILS, SEE SHEET NOS. 2-AM THRU 2-AR

LEGEND

PAVED SHOULDER

PAVEMENT REMOVAL

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-38/CONST.17
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NC GRID NAD 83

-MATCHLINE- STA. 175+00 -Y- SEE SHEET NO. 16

176
CONGRESS STATESVILLE, LLC
DB 1532 PG 1446

176A
IREDELL COUNTY
DB 1926 PG 1282

SR 2187 GLENWAY DR

EXISTING R/W 60.00' EXISTING R/W

48" WW & ISBW

24' BST

+50 -Y- EX.R/W

+49.53 129.24'

S 86°20'00" E 6.68'

EIP R/W MON

CONGRESS STATESVILLE, LLC
DB 1532 PG 1446

+49.30 99.48'

120' -Y- EX.R/W

TIE TO EXISTING FENCE +16.03

+10 -Y- 120'

+75 -Y- 128'

+50 -Y- 128'

+87.56 -Y- 115'

+65 -Y- 118'

+50 -Y- 115'

+84.31 -Y- 188.59'

+14.28 -Y- 189.91'

+16.92 -Y- 130'

+24.68 -Y- 130'

+25 -Y- 115'

AUE

LT

25' BST

SOIL

EXISTING R/W

48" WW & ISBW

RETAIN 18" RCP

177 SBL

PROPOSED GUARDRAIL

TIE TO EXISTING GUARDRAIL

RETAIN 18" RCP

RETAIN 18" RCP

11' BST

177 SBL 24' BST

4' BST

MTL

CONC

180

185

N 3°40'11.9" E

18" RCP

15" RCP

CB TOP=901.06 LID BROKEN

177 NBL

FS-II SEE DETAIL

PLUG AND FILL W/FLOWABLE FILL

177 NBL 24' BST

11' BST

BEGIN 300' LANE TAPER POT 176+75.00

FS-III SEE DETAIL

(702)

TRENCHLESS INSTALLATION 15" WELDED STEEL PIPE

END 300' LANE TAPER POT 179+75.00

+50.14 127.80'

+50.06 130.38'

R/W MON

END CONSTRUCTION (Y NBL)
-Y- POT 179+75.00
TIE TO EXISTING PAVEMENT

EXISTING R/W

SOIL

+75 -Y- 155'

+00 -Y- 130'

96
JAMES FARMS, INC.
DB 336 PG 412

FOR -Y- PROFILE, SEE SHEET NOS. 35 & 36
FOR DITCH DETAILS, SEE SHEET NOS. 2-R THRU 2-S

LEGEND
PAVED SHOULDER
PAVEMENT REMOVAL

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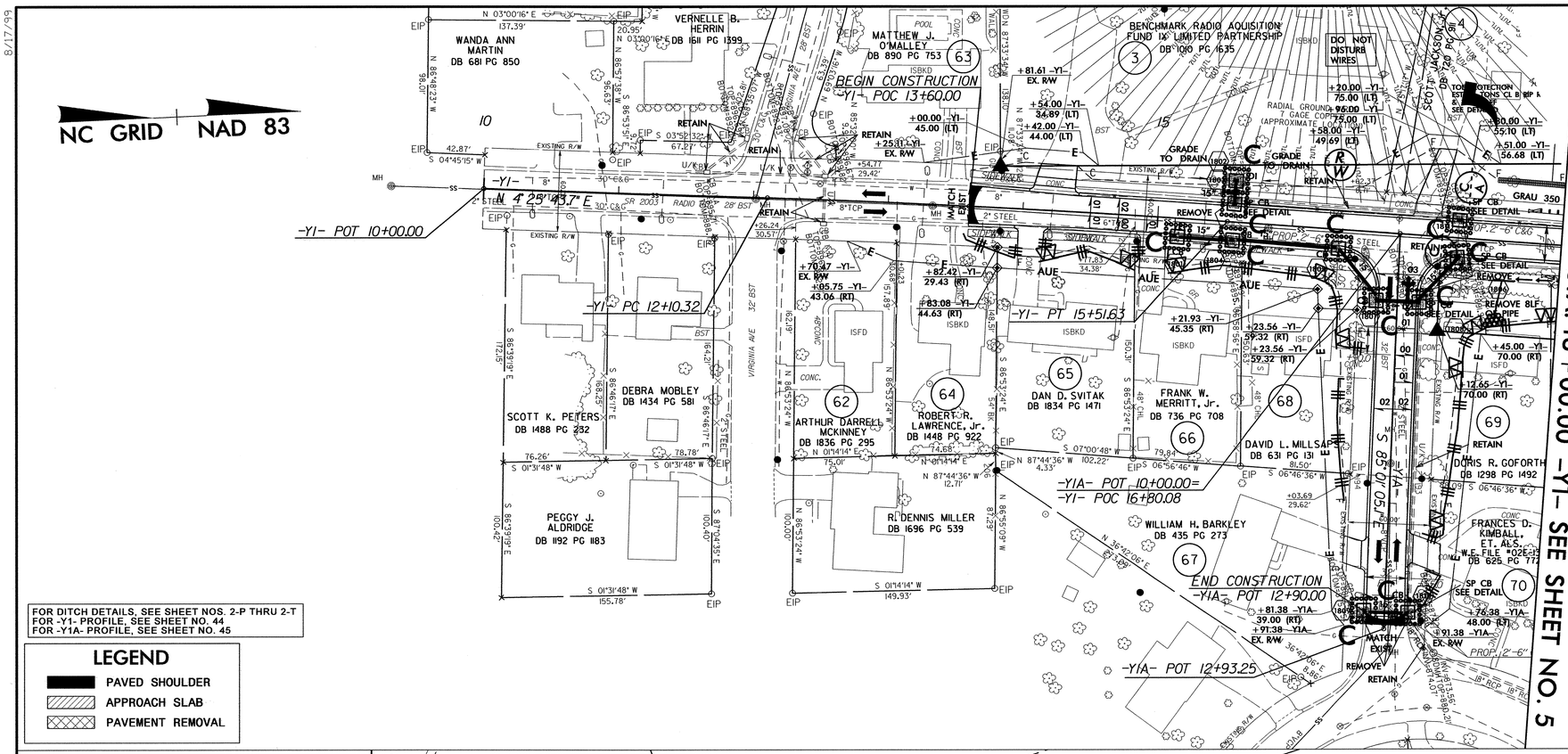
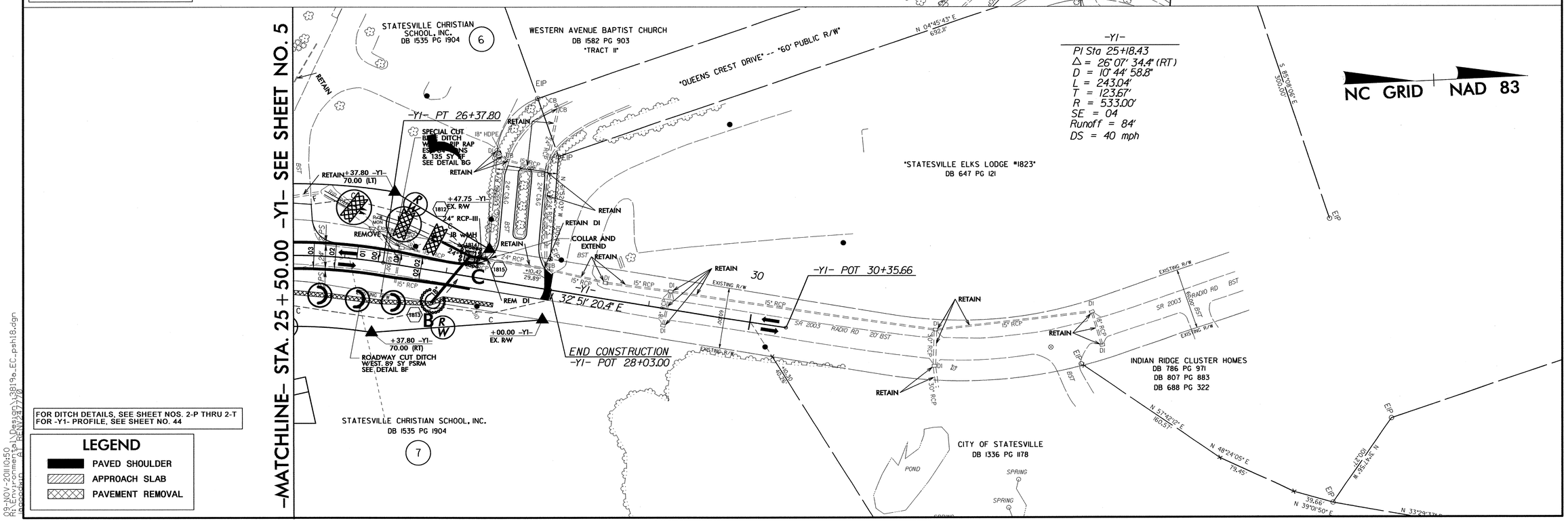
PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-39/CONST.J8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



FOR DITCH DETAILS, SEE SHEET NOS. 2-P THRU 2-T
FOR -Y1- PROFILE, SEE SHEET NO. 44
FOR -Y1A- PROFILE, SEE SHEET NO. 45

LEGEND

- PAVED SHOULDER
- APPROACH SLAB
- PAVEMENT REMOVAL



FOR DITCH DETAILS, SEE SHEET NOS. 2-P THRU 2-T
FOR -Y1- PROFILE, SEE SHEET NO. 44

LEGEND

- PAVED SHOULDER
- APPROACH SLAB
- PAVEMENT REMOVAL

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PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-40/CONST.19
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NC GRID NAD 83

-Y4- PC 10+94.70

-Y4- POT 10+00.00

BEGIN CONSTRUCTION -Y4- POT 10+90.00

-Y4- PT 17+82.72

-Y4- POT 18+28.35 E -Y4A- POT 10+00.00

END PROPOSED RETAINING WALL -Y4- STA.18+17.42 LT.

BEGIN PROPOSED RETAINING WALL -Y4- STA.10+06.32 LT.

-MATCHLINE- STA. 20+50.00 -Y4- SEE SHEET NO. 8

-Y4A- POT 13+50

BEGIN 150' TAPER (LT.& RT.) -Y4- STA.10+90.00

END 150' TAPER (LT.& RT.) -Y4- STA.12+40.00

72 RICHARD P. CANNON
DB 586 PG 323
DB 3811 PG 169

75 SULLIVAN SQUARE, INC.
DB 1041 PG 1162

SHANER HOTEL GROUP LIMITED PARTNERSHIP
DB 981 PG 1816

71 BRANCH BANKING & TRUST COMPANY
DB 785 PG 691
DB 785 PG 696
DB 785 PG 693

SULLIVAN ROAD PARTNERS
DB 947 PG 822

SULLIVAN ROAD PARTNERS
DB 942 PG 223

78 MEWA MUNDI, ET. ALS.
DB 1623 PG 626

76 PS, LLC
DB 1235 PG 284

77 SAM H. McMAHON, JR.
DB 819 PG 134

79 THE W.H. CHAMBERS ESTATE
DB 1172 PG 1593
DB 169 PG 315
DB 228 PG 522

CITY OF STATESVILLE
DB 601 PG 706
DB 560 PG 369

74 J B HARRISON PROPERTIES, LLC
DB 1822 PG 1116
"LOT "I"

KENKAYLA REAL ESTATE LLC
DB 1876 PG 818
PB 52 PG 113
LOT 2B

73 KENKAYLA REAL ESTATE LLC
DB 1876 PG 818
PB 52 PG 113
LOT 2A

MRS. W.S. HUNTER
DB 469 PG 191

74A AVANT NC, LLC
DB 1789 PG 589

DO NOT DISTURB

RETAIN

REMOVE

PROP. 5' SW

PROP. 4' MONO. ISLAND

PROP. 8" X 18" CONC. CURB

REMOVE CB & 6 LF-15" RCP EXTEND 18" RCP

REMOVE 16 LF 15" CMP

PLUG & FILL W/ FLOWABLE FILL

WARP GUTTER TO DRAIN TO DI

MATCH EXIST. REMOVE

COLLAR AND EXTEND

LEGEND

PAVED SHOULDER

APPROACH SLAB

PAVEMENT REMOVAL

FOR DITCH DETAILS, SEE SHEET NOS. 2-P THRU 2-T
FOR -Y4- PROFILE, SEE SHEET NO. 47

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IRBROWN
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PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-4I/CONST.20
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE:
UTILIZE SKIMMER BASIN OR SPECIAL STILLING BASIN AS STILLING BASIN WHERE APPLICABLE.

NC GRID NAD 83

-Y5A- POT 10+00.00
BEGIN CONSTRUCTION
-Y5A- POT 10+07.96

-Y8- POT 22+78.57=
-Y5A- POT 12+57.99

-Y8- PT 22+04.98

-Y8- PRC 18+88.18

END APPROACH SLAB
-Y8- POC 17+98.84

END BRIDGE
-Y8- POC 17+75.00

-Y4- POT 43+81.80

END CONSTRUCTION
-Y4- POC 40+80.00

-Y4- POC 38+87.21=
-Y5A- PT 16+80.67
-Y4- POC 38+67.70=
-Y5- PC 10+11.43

-Y4- PC 36+88.09

-Y5- PT 12+03.76

Modified Silt Basin
Type 'B'
24 x 25 x 3
(See Tiered Skimmer Basin Detail)
ID 20.1

24 x 25 x 3
1.5 inch Skimmer
with 0.75 inch Orifice Diameter
17 ft. weir
(See Tiered Skimmer Basin Detail)
ID 20.1

LEGEND
- PAVED SHOULDER
- APPROACH SLAB
- PAVEMENT REMOVAL

FOR DITCH DETAILS, SEE SHEET NOS. 2-P THRU 2-T
FOR -Y4- PROFILE, SEE SHEET NO. 48
FOR -Y5- PROFILE, SEE SHEET NO. 53
FOR -Y5A- PROFILE, SEE SHEET NO. 56
FOR -Y8- PROFILE, SEE SHEET NO. 56
FOR PAVEMENT-BRIDGE RELATIONSHIP SKETCHES, SEE SHEET NO. 2-AC

-MATCHLINE- STA. 15+00.00 -Y8- SEE SHEET NO. 8

-MATCHLINE- STA. 35+00.00 -Y4- SEE SHEET NO. 8

-MATCHLINE- STA. 14+50.00 -Y5- SEE SHEET NO. 8

STATESVILLE GOLF CENTER, INC. DB 1003 PG 1279

83 JAME LIMITED PARTNERSHIP DB 1231 PG 1393

82 CHESTER C. BOOTH DB 727 PG 881

83A JAME LIMITED PARTNERSHIP DB 1231 PG 1393

81 CRAIG MARSHALL SHARPE DB 2043 PG 597

37A CITY OF STATESVILLE DB 182 PG 103 DB 201 PG 097 DB 505 PG 580

85 CAROLINA SPECIALTY CARE HOLDINGS, LLC DB 1496 PG 2168

ZAXBY'S HOLDINGS, L.L.C. DB 1601 PG 1487

84 FFC LIMITED PARTNERSHIP DB 887 PG 147 DB 906 PG 1022

TACO BELL DB 1098

86 GE CAPITAL FRANCHISE FINANCE CORP DB 1801 PG 2296

87 JAMES C. WALL DB 925 PG 352

88 CROSSROADS 4 LIMITED PARTNERSHIP DB 805 PG 234

54 FIRST UNION NATIONAL BANK OF NORTH CAROLINA DB 813 PG 158 DB 826 PG 365 DB 1793 PG 960

K-BO, INC. DB 1526 PG 1116

89 STATESVILLE VIDEO, LLC DB 1963 PG 1920

90 NC INCOME PROPERTIES LIMITED PARTNERSHIP DB 1009 PG 2048

DUKE ENERGY COMPANY POWER TRANSMISSION LINE R/W = 68 FEET WIDE

CITY OF STATESVILLE "GREENWAY EASEMENT" R/W = 20 FEET WIDE

"CITY OF STATESVILLE" "CLOSED" 40' PUBLIC UNNAMED STREET

SR 1933 PUMP STATION RD

SUNSET HILL RD

HILLSIDE LN

CLASS II RIP RAP ESTIMATIONS ESTIMATED SY FF

STANDARD "V" DITCH SEE DETAIL C

SPECIAL CUT DITCH SEE DETAIL F

15" W/ELBOWS, ROD, & LUG CONNECTORS

TYPE B-77

TYPE 1 SILT BASIN GRADE

CLASS II RIP RAP AT EMBANKMENT ESTIMATIONS ESTIMATED SY FF SEE DETAIL W

-Y8- 15+64 TO 17+80 6' DIA. DECK DRAINS AT 14' C/C

+18.00 -Y4- EX. R/W

DO NOT DISTURB

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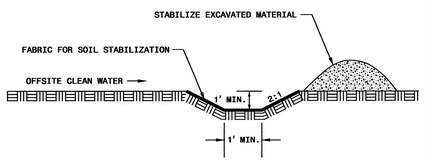
PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-42/CONST.21
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEAN WATER DIVERSION

(Not to Scale)



NOTE:
UTILIZE SKIMMER BASIN OR SPECIAL STILLING BASIN WHERE APPLICABLE.

33 x 13 x 3
1.5 inch Skimmer with 0.5 inch Orifice Diameter
5 ft. weir
ID 21.1F

39 x 20 x 3
1.5 inch Skimmer with 0.75 inch Orifice Diameter
12 ft. weir
ID 21.2

42 x 19 x 3
1.5 inch Skimmer with 0.75 inch Orifice Diameter
11 ft. weir
ID 21.1

21 x 10 x 3
1.5 inch Skimmer with 0.25 inch Orifice Diameter
4 ft. weir
ID 21.2F

NC GRID NAD 83

-MATCHLINE- STA. 16+00 -SR1- SEE SHEET NO. 22

-SR1- POT 1+86.84

-SR1- POT 2+00.00

BEGIN CONSTRUCTION

-SR1- PC 4+15.66

-SR1- PT 9+73.14

-SR1- PC 14+72.05

CENTER CUL-DE-SAC
-SR1- STA. 2+50.00

TOE PROTECTION
w/25 TONS CLASS B RIP RAP
61 SY FILTER FABRIC
SEE DETAIL D

TOE PROTECTION
w/104 TONS CLASS I RIP RAP
212 SY FILTER FABRIC
SEE DETAIL D

TOE PROTECTION
w/28 TONS CLASS B RIP RAP
70 SY FILTER FABRIC
SEE DETAIL D

TOE PROTECTION
w/116 TONS CLASS I RIP RAP
238 SY FILTER FABRIC
SEE DETAIL D

CLASS II RIP RAP
18 TONS ON BANKS ONLY
26 SY FILTER FABRIC
SEE DETAIL K

CLASS II RIP RAP
24 TONS ON BANKS ONLY
34 SY FILTER FABRIC
SEE DETAIL K

2 @ 9' x 7' RCBC

CULVERT INLET CHANNEL
SEE DETAIL BM

CULVERT OUTLET CHANNEL
SEE DETAIL BN

15" CSP W/ELBOWS, ROD & LUG CONNECTORS W/SLEEVES

FS-III
SEE DETAIL

FS-I
SEE DETAIL

PSH
SEE DETAIL V

PROPOSED 5SBW FENCE

20' x 10' PSRM

GRADE TO DRAIN

GRAU-350

CWD

SWAMP

WOODS

STONE

5 STRAND WIRE

PROPOSED GUARDRAIL

N 41° 49' 58.3" E

N 88°51'34" W
1060.43'

S 05°00'59" W
80.98'

S 02°22'29" W
159.14'

S 67° 11' 04.9" E

(96)
JAMES FARMS, INC.
DB 336 PG 412

(180)
ANDREW H. CRAWFORD
AND WIFE
MERRI-DELL H. CRAWFORD
DB 1055 PG 1089

(179)
PEPPERCORN MANAGEMENT, LLC
DB 1514 PG 2449

FOR DITCH DETAILS, SEE SHEET NOS. 2-R THRU 2-S
FOR -SR1- PROFILE, SEE SHEET NO. 58

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PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-43/CONST.22
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NC GRID NAD 83

180
ANDREW H. CRAWFORD
AND WIFE
MERRI-DELL H. CRAWFORD
DB 1055 PG 1089

28 x 10 x 3
ID 22.1F

27 x 54 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
30 ft. weir
ID 22.3F

46 x 23 x 3
1.5 inch Skimmer
1.0 with inch
Orifice Diameter
13 ft. weir
ID 22.2

-MATCHLINE- STA. 16+00 -SR1- SEE SHEET NO. 21

-MATCHLINE- STA. 28+00 -SR1- SEE SHEET NO. 23

PROPOSED 5SBW FENCE

-SR1- PT 19+39.55

5 STRAND BARB WIRE

WOODS

POND

TIE TO
EXISTING
SWALE

8 TONS CLASS B RIP RAP
21 SY FILTER FABRIC

2 TONS CLASS B RIP RAP
7 SY FILTER FABRIC

5' BASE TAIL DITCH
L=20', S=0.3%, DDE 5CY
SEE DETAIL H

S 89°14'23" E
2488.19'

N 73°34' 17.2" E

-SR1-
S 89°32' 12.1" E

TSD

+00 -SR1-
50'

+90 -SR1-
68'

+95 -SR1-
72'

+39.55 -SR1-
50'

+95 -SR1-
70'

+05 -SR1-
60'

+75.41 -SR1-
50'

-SR1- PC 19+75.41

ROADWAY CUT DITCH
W/PSRM
SEE DETAIL N

+75 -SR1-
50'

+45.42 -SR1-
50'

-SR1- PT 22+45.42

SPECIAL CUT DITCH
SEE DETAIL F

SPECIAL CUT DITCH
W/ PSRM
SEE DETAIL X

CULTIVATED

30 x 10 x 3
ID 22.2F

179
PEPPERCORN MANAGEMENT, LLC
DB 1514 PG 2449

FOR DITCH DETAILS, SEE SHEET NOS. 2-R THRU 2S
FOR -SR1- PROFILE, SEE SHEET NO. 58

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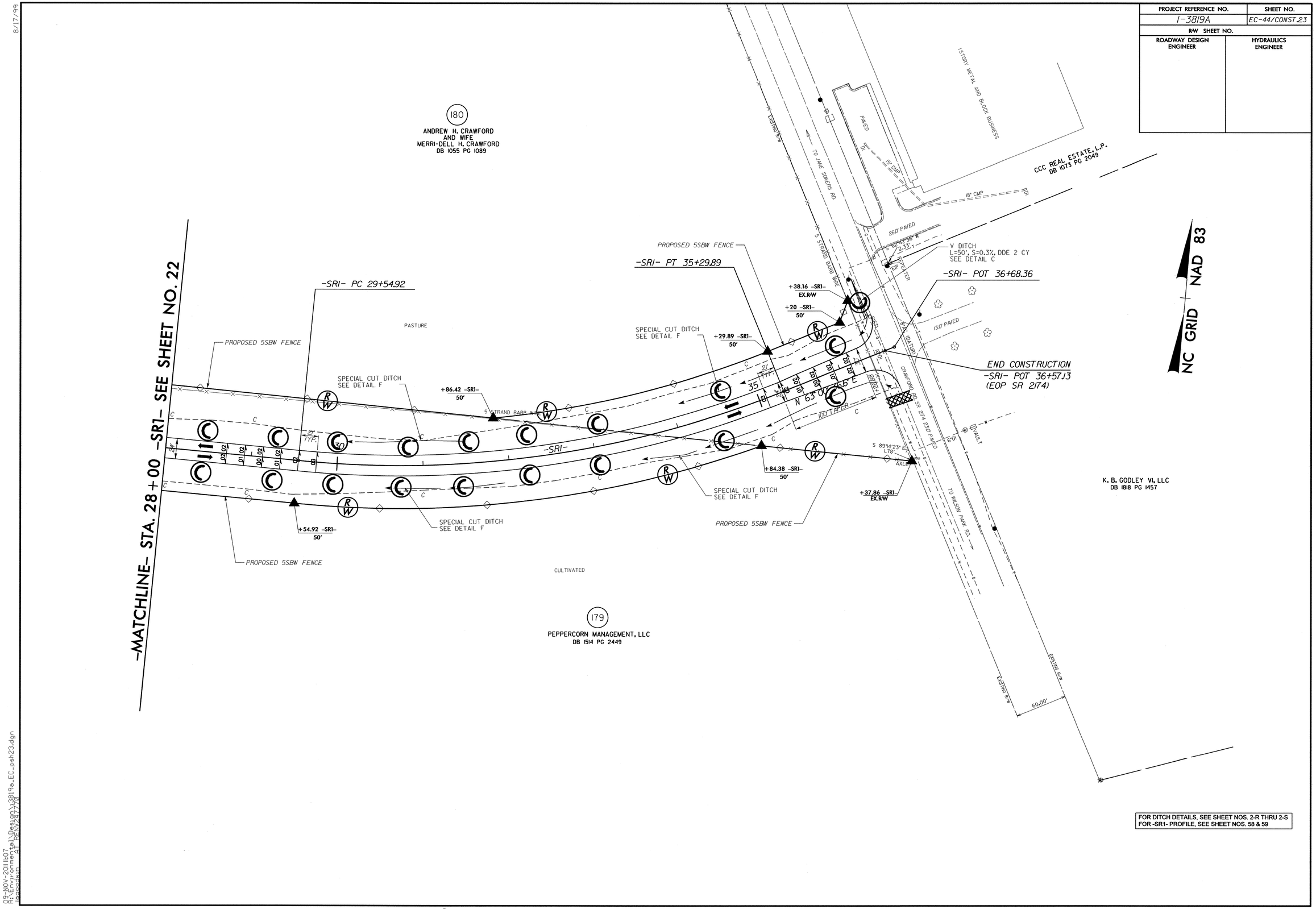
Microstation 8.1 REVISED 7/7/08

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-44/CONST.23
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



FOR DITCH DETAILS, SEE SHEET NOS. 2-R THRU 2-S
FOR -SR1- PROFILE, SEE SHEET NOS. 58 & 59

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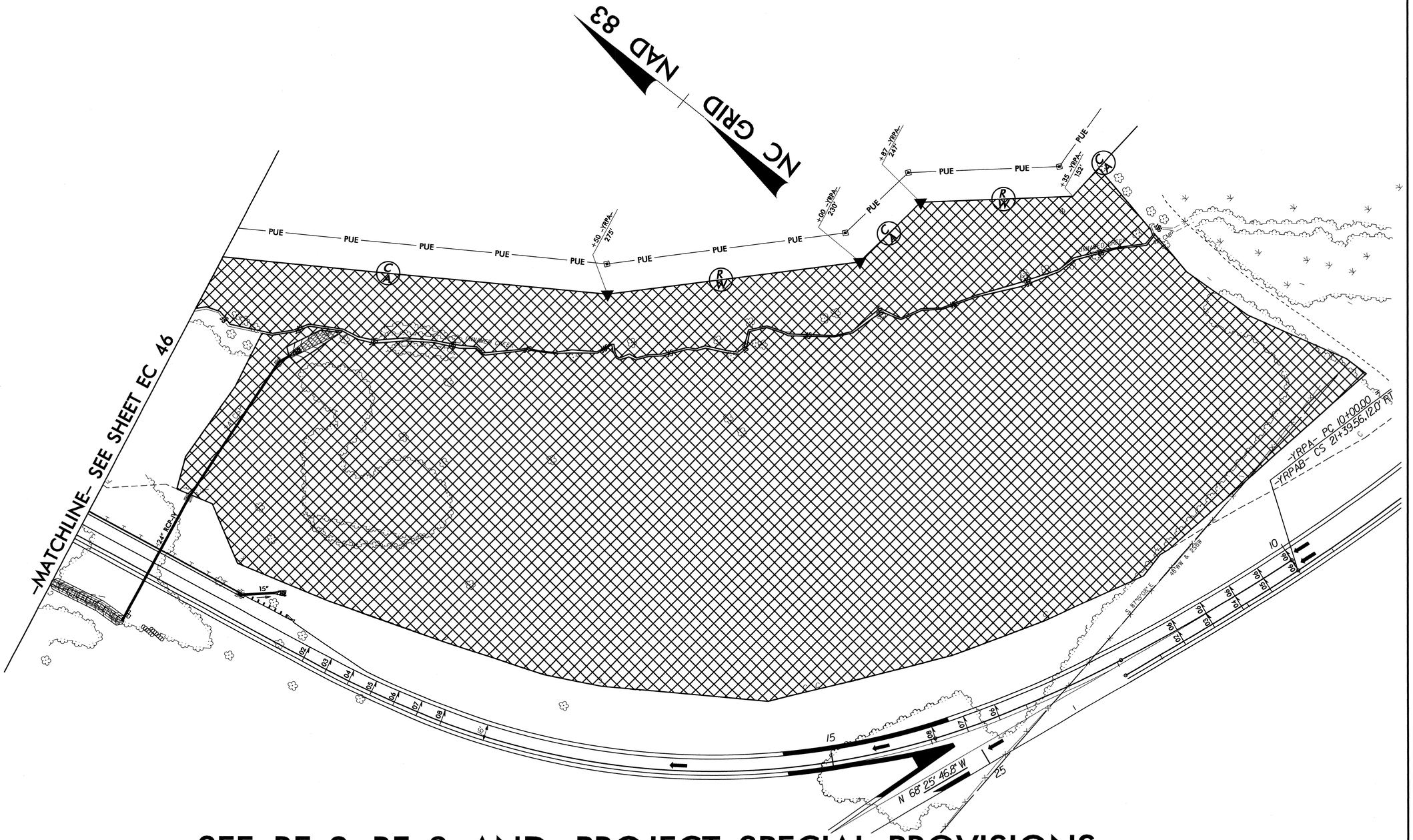
PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-45/CONST.10&15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

11.47 ACRE STREAMBANK REFORESTATION

SHEET 1 OF 2

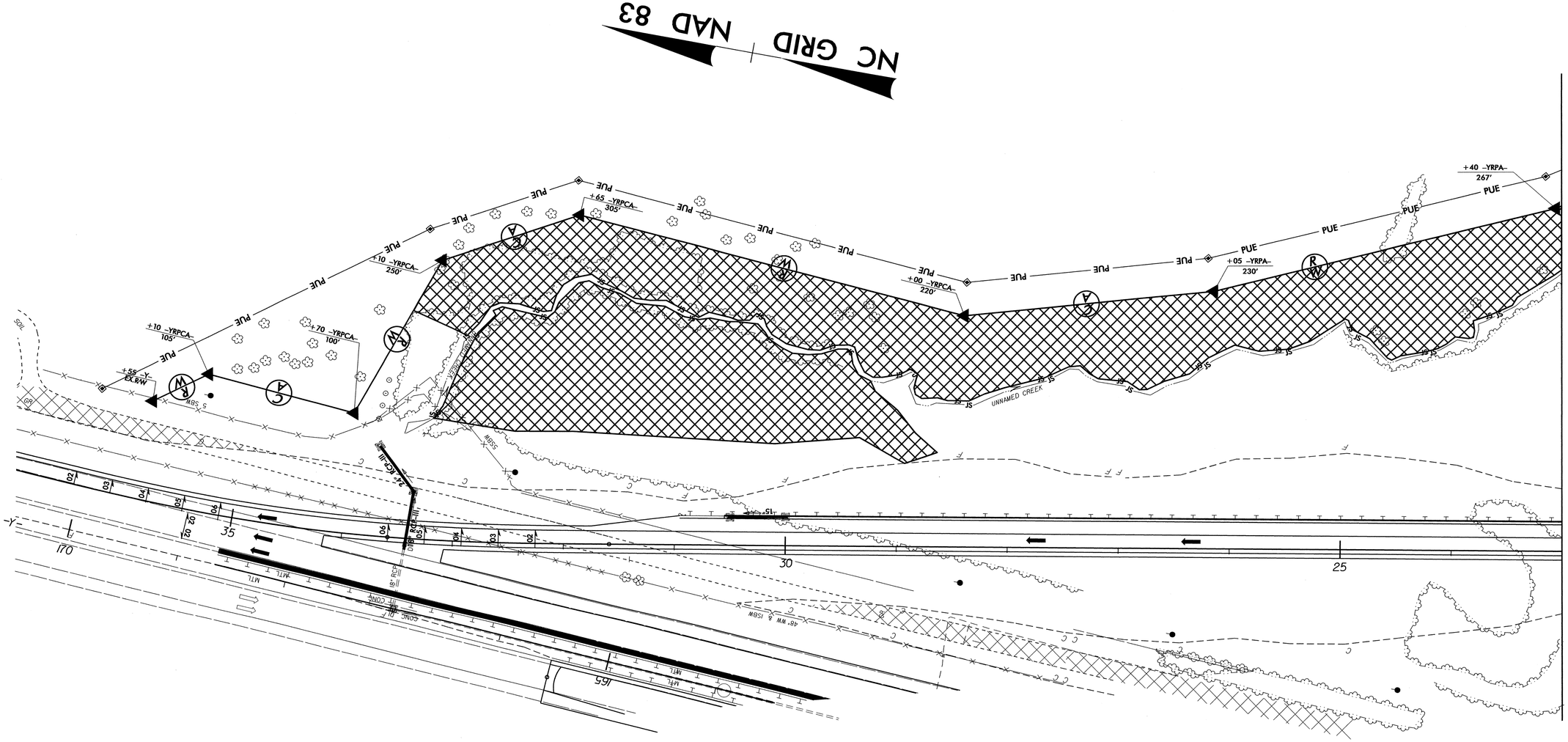


SEE RF-2, RF-3 AND PROJECT SPECIAL PROVISIONS

PROJECT REFERENCE NO.	SHEET NO.
I-3819A	EC-46/CONST J6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

STREAMBANK REFORESTATION

SHEET 2 OF 2



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