TIP PROJECT: R-4463A

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

CRAVEN COUNTY

LOCATION: NC 43 CONNECTOR FROM US 70 TO US 17 BUSINESS

TYPE OF WORK: GRADING, PAVING, DRAINAGE, SIGNALS, & STRUCTURES

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-4463A	EC-1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
35601.1.R2		PE
35601.2.1		ROW/UTIL
35601.3.1		CONSTRUCTION

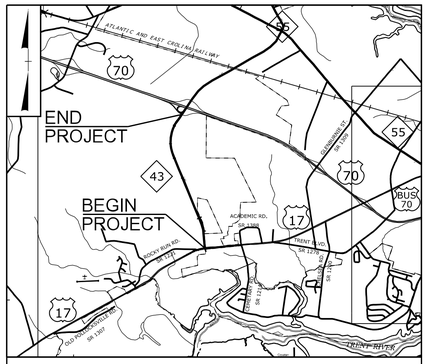
NAD 83

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

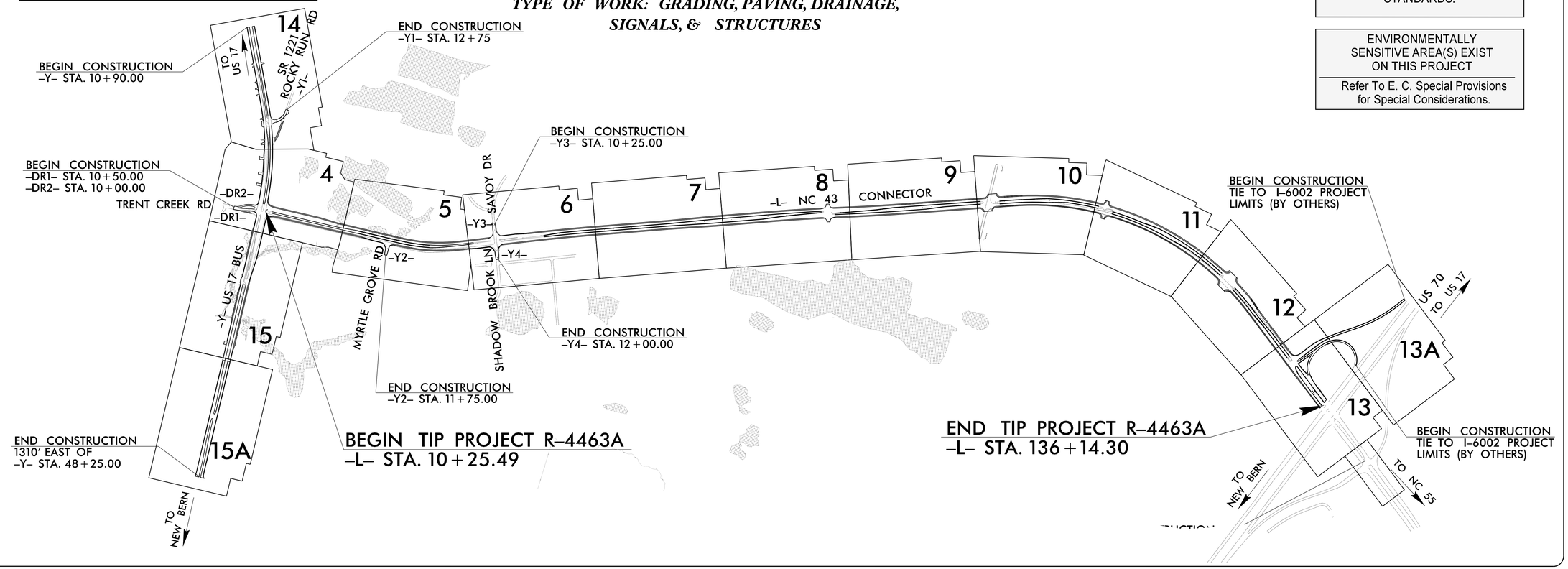
THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

ENVIRONMENTALLY SENSITIVE AREA(S) EXIST ON THIS PROJECT

Refer To E. C. Special Provisions for Special Considerations.



VICINITY MAP



GRAPHIC SCALE

50 25 0 50 100

PLANS

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL STORMWATER CONSTRUCTION PERMIT ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES.

Prepared In the Office of:

HDR Engineering, Inc. of the Carolinas
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

Designed by:

David R. Wagner II, PE ***4286***

NAME *LEVEL III CERTIFICATION NO.*

Roadway Standard Drawings

The "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2024 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

3/7/2025
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PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-2
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

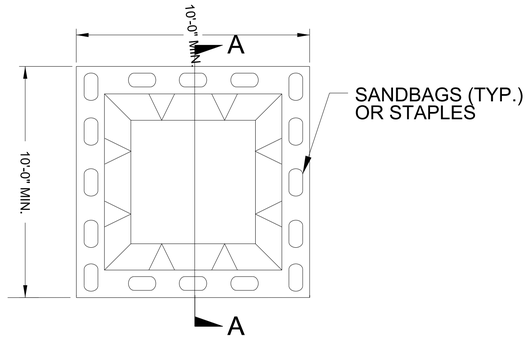
EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1630.03	Temporary Silt Ditch	TSD
1630.04	Stilling Basin	
1630.05	Temporary Diversion	TD
1630.06	Special Stilling Basin	
1630.07	Skimmer Basin	
1630.08	Tiered Skimmer Basin	
1630.09	Earthen Dam with Skimmer	
	Infiltration Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C

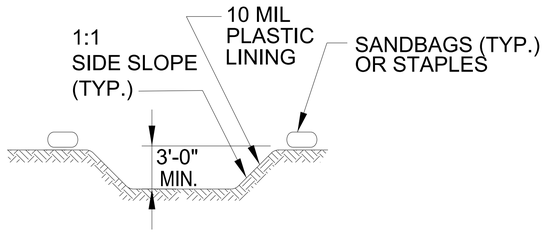
Std. #	Description	Symbol
1633.01	Temporary Rock Silt Check Type A	
1633.02	Temporary Rock Silt Check Type B	
1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1634.01	Temporary Rock Sediment Dam Type A	
1634.02	Temporary Rock Sediment Dam Type B	
1635.01	Rock Pipe Inlet Sediment Trap Type A	A
1635.02	Rock Pipe Inlet Sediment Trap Type B	B
1636.01	Excelsior Wattle Check	
1636.01	Excelsior Wattle Check with Flocculant	
1636.01	Coir Fiber Wattle Check	
1636.01	Coir Fiber Wattle Check with Flocculant	
1636.02	Silt Fence Excelsior Wattle Break	EW
	Silt Fence Coir Fiber Wattle Break	CFW
1636.03	Excelsior Wattle Barrier	—EW—EW—EW—
1636.03	Coir Fiber Wattle Barrier	—CFW—CFW—CFW—

PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-2A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



PLAN



SECTION A-A

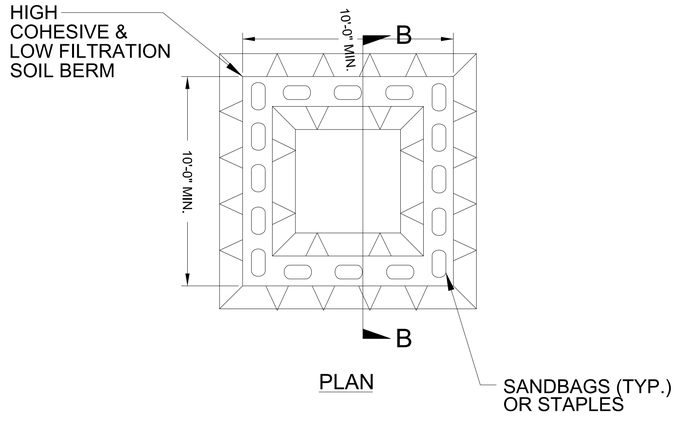
NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD

2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.

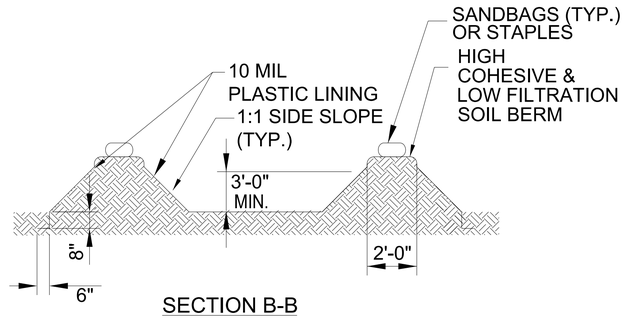
3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

BELOW GRADE WASHOUT STRUCTURE

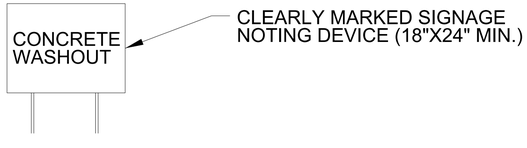
NOT TO SCALE



PLAN



SECTION B-B



NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD

2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.

3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.

ABOVE GRADE WASHOUT STRUCTURE

NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-2B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

HDR Engineering, Inc. of the Carolinas
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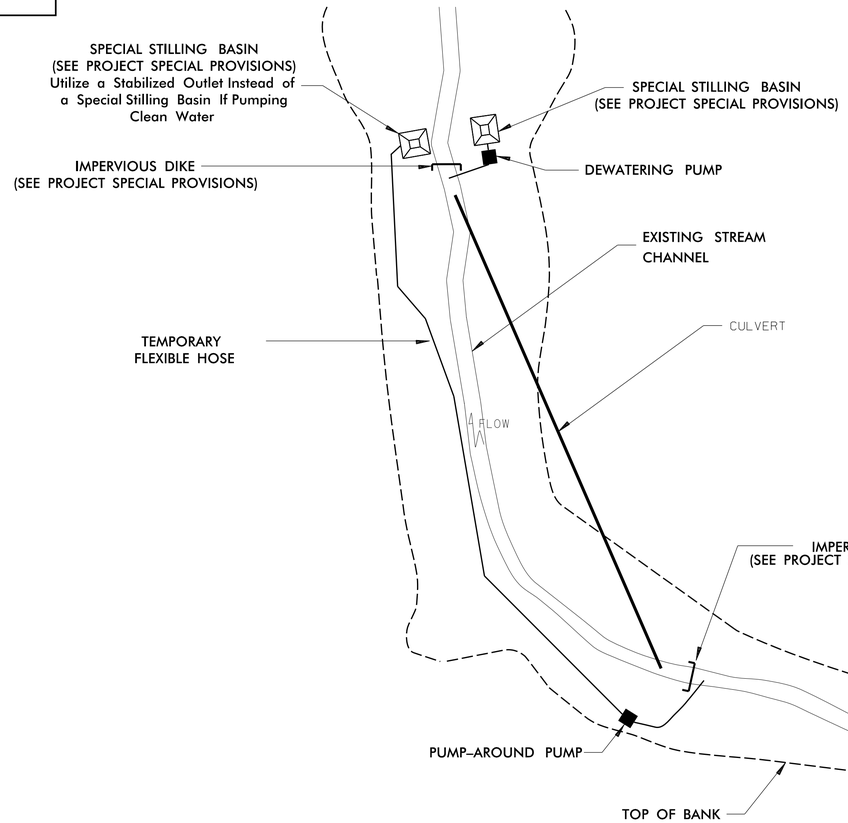
N.C.B.E.L.S. License Number: F-0116

PUMP–AROUND OPERATION

NOTES:
1) All excavation shall be performed in only dry or isolated areas of the work zone.
2) Impervious dikes are to be used to isolate work from stream flow when necessary.
3) Maintenance of stream flow operations shall be incidental to the work. This includes polyethylene sheeting, diversion pipes, pumps and hoses.
4) Pumps and hoses shall be of sufficient size to dewater the work area and maintain stream bypass flow.



SEQUENCE OF CONSTRUCTION FOR TYPICAL WORK AREA

1. INSTALL SPECIAL STILLING BASIN(S).
2. INSTALL UPSTREAM PUMP AND TEMPORARY FLEXIBLE HOSE.
3. PLACE UPSTREAM IMPERVIOUS DIKE AND BEGIN PUMPING OPERATIONS FOR STREAM DIVERSION.
4. PLACE DOWNSTREAM IMPERVIOUS DIKE AND PUMPING APPARATUS. DEWATER ENTRAPPED AREA. AREA TO BE DEWATERED SHALL BE EQUAL TO ONE DAY'S WORK.
5. INSTALL CULVERT(S) IN ACCORDANCE WITH THE PLANS.
6. EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES. REMOVE IMPERVIOUS DIKES, PUMPS, AND TEMPORARY FLEXIBLE HOSE. (DOWNSTREAM IMPERVIOUS DIKES FIRST).
7. REMOVE SPECIAL STILLING BASIN(S) AND BACKFILL. STABILIZE DISTURBED AREA WITH SEED AND MULCH.

PLOT DRIVER: NCDOT_pdf_color_eng_100 _CGM USE FOR 24X36 PLOTS: NCDOT_EC_FINAL BW.tbl
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PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-2C
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

BORROW PIT DEWATERING BASIN DETAIL

GENERAL NOTES:

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

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

CONSTRUCT THE COIR FIBER BAFFLE IN ACCORDANCE WITH ROADWAY STANDARD DRAWING 1640.01 AND WITH MATERIAL THAT MEETS THE SPECIFICATIONS OF ROADWAY STANDARD 1640-14.

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

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

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

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

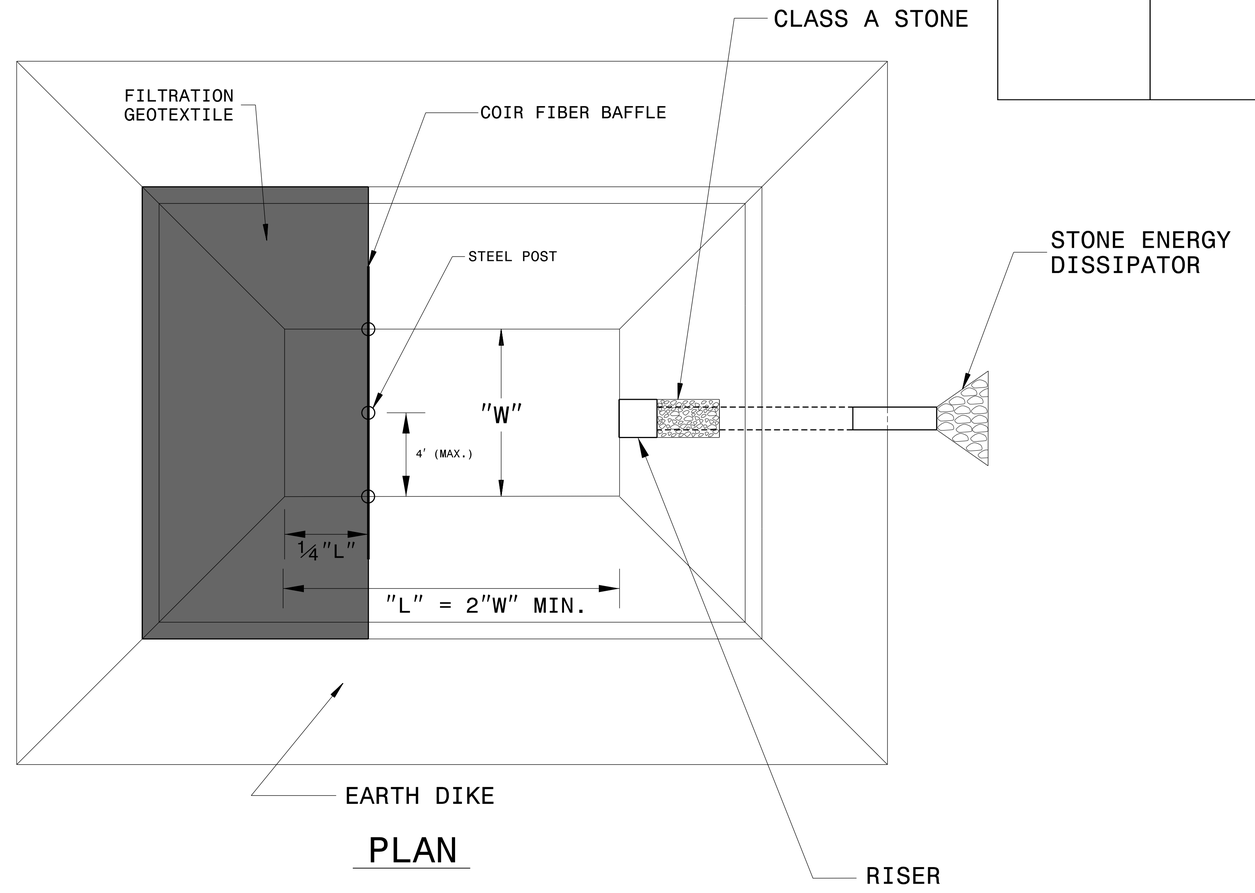
DO NOT EXCEED 3½ FT. IN HEIGHT FOR THE EARTH DIKES REQUIRED FOR BORROW PIT DEWATERING BASIN.

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

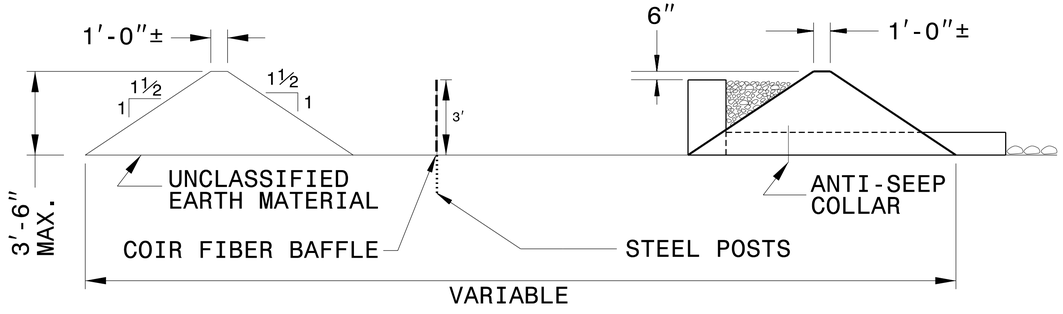
SUBMIT THE SIZE, LOCATION AND RISER PIPE MATERIAL FOR APPROVAL PRIOR TO CONSTRUCTION.

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

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



PLAN

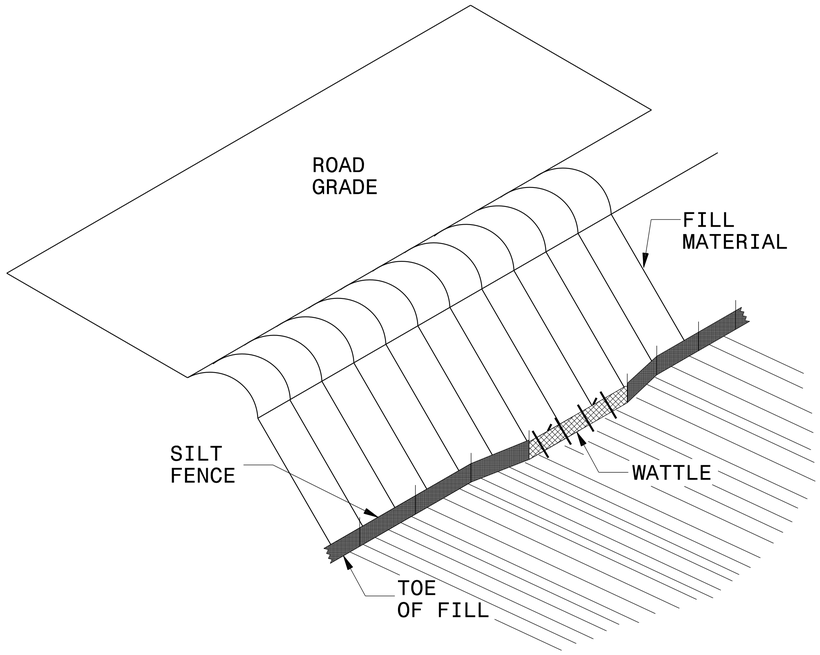


TYPICAL SECTION VIEW

NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-2D
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SILT FENCE COIR FIBER WATTLE BREAK DETAIL



ISOMETRIC VIEW

NOTES:

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

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

DO NOT PLACE WATTLE ON TOE OF SLOPE.

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

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

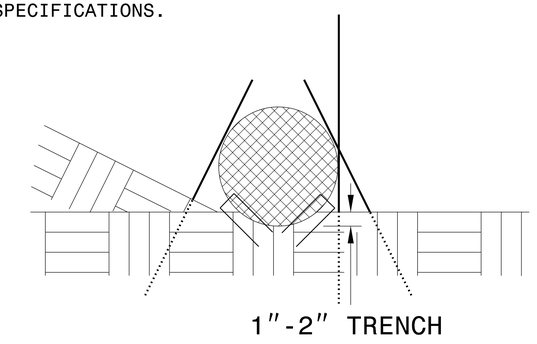
PROVIDE STAPLES MADE OF 11 GUAGE STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 6″ IN LENGTH.

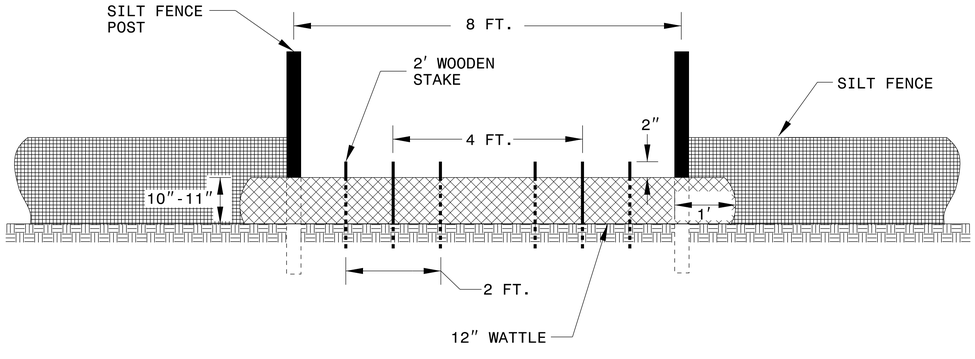
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

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

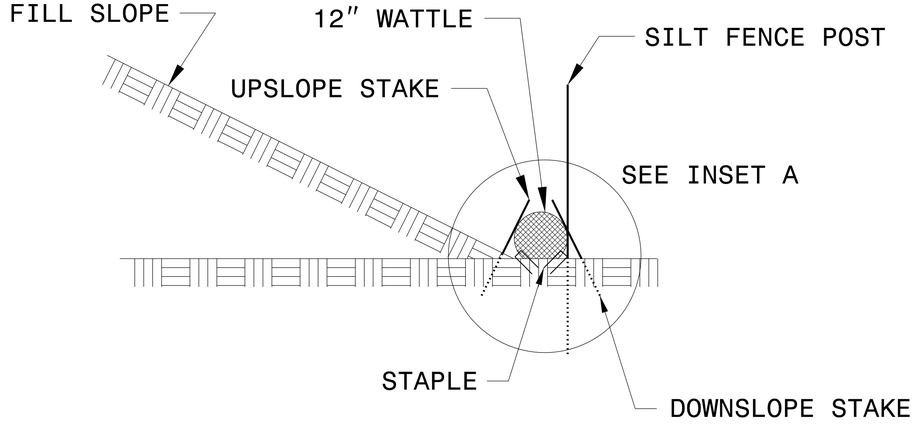
INSTALL TEMPORARY SILT FENCE IN ACCORDANCE WITH SECTION 1605 OF THE STANDARD SPECIFICATIONS.

INSET A





VIEW FROM SLOPE



SIDE VIEW

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PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-3

ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

MATTING ON SLOPES

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-L-	15+00	15+50	LT	189
4	-L-	16+50	17+00	LT	192
4	-L-	16+50	17+00	RT	144
5	-L-	28+00	28+50	RT	146
5	-L-	29+50	32+00	RT	794
6	-L-	44+00	58+00	LT	4939
6	-L-	46+50	59+50	RT	5180
8	-L-	63+00	63+50	RT	144
8	-L-	71+00	71+50	LT	157
8	-L-	72+50	79+00	LT	2062
8	-L-	68+50	80+50	RT	3731
10	-L-	92+50	93+00	RT	151
10	-L-	93+00	93+50	LT	176
10	-L-	99+50	101+00	LT	505
11	-L-	109+50	112+50	RT	895
11	-L-	107+00	117+00	LT	3521
13	-L-	127+00	127+50	RT	166
13	-L-	127+50	128+50	LT	340
15	-Y-	36+00	46+00	LT	4233
15	-Y-	36+00	46+00	RT	4928
			SUBTOTAL		32593 SY

MATTING IN DITCHES (STRAW)

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-DR2-	10+95	10+20	LT	60
4	-DR2-	12+44	11+30	RT	90
4	-L-	10+90	10+70	LT	45
4	-L-	16+53	10+90	LT	1920
4	-L-	15+50	11+08	M	655
4	-L-	21+00	15+50	M	810
4	-Y-	30+20	24+93	LT	1060
4	-Y-	30+60	25+50	RT	980
4	-Y-	31+20	31+05	RT	30
4	-Y-	36+00	31+75	RT	860
4	-Y-	32+28	31+95	LT	130
4	-Y-	33+50	32+38	LT	380
5	-L-	24+05	21+00	M	450
5	-L-	28+70	24+05	M	685
5	-L-	30+00	29+20	RT	85
6	-L-	35+00	30+00	RT	505
6	-L-	39+80	36+78	M	445
6	-L-	41+25	39+50	LT	220
6	-L-	46+00	39+80	M	915
6	-L-	50+00	47+75	LT	345
7	-L-	52+25	46+00	M	925
7	-L-	58+00	52+25	M	850
8	-L-	65+00	58+00	M	1035
8	-L-	69+00	65+00	M	590
8	-L-	71+81	69+00	M	415
8	-L-	78+00	73+40	M	680
9	-L-	82+31	78+00	M	635
9	-L-	85+00	82+31	M	400
9	-L-	87+50	85+00	M	370
9	-L-	89+80	87+50	M	340

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PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-3A

ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

MATTING IN DITCHES (STRAW)

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
10	-L-	98+15	96+25	M	280
11	-L-	105+03	104+05	M	145
11	-L-	108+25	106+25	M	295
11	-L-	113+50	111+33	M	320
12	-L-	117+75	116+25	M	225
12	-L-	121+90	120+00	M	280
12	-L-	125+00	122+25	M	405
12	-L-	127+08	125+00	M	310
14	-Y-	19+55	19+00	LT	45
14	-Y-	20+00	19+55	RT	35
14	-Y-	20+50	19+55	LT	100
14	-Y-	21+10	20+50	LT	65
14	-Y-	23+50	21+93	LT	140
14	-Y1-	12+65	10+80	LT	165
14	-Y1-	12+50	10+80	RT	150
15	-Y-	35+50	33+50	LT	605
15	-Y-	36+40	35+50	LT	275
15	-Y-	37+00	36+40	LT	185
15	-Y-	43+50	37+00	LT	2215
			SUBTOTAL		23150 SY

MATTING IN DITCHES (EXCELSIOR)

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-DR2-	11+80	10+95	LT*	70
4	-Y-	24+93	23+50	LT	130
12	-L-	129+60	127+08	M	375
14	-Y-	21+00	20+00	RT*	100
15	-Y-	45+00	43+53	RT*	150
			SUBTOTAL		825 SY
	SUBTOTAL FOR STRAW MATTING				23150 SY
	SUBTOTAL FOR EXCELSIOR MATTING				825 SY
	SUBTOTAL FROM SLOPE MATTING				32593 SY
	TOTAL MATTING				56568 SY
	MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER				10530 SY
				TOTAL	67098 SY

PERMANENT SOIL REINFORCEMNT MAT – TYPE 5

4	-L-	12+00	10+90	RT	165
9	-L-	81+76	81+70	RT	85
9	-L-	82+30	82+20	RT	25
				TOTAL	275 SY

HDR Engineering, Inc. of the Carolinas
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PROJECT REFERENCE NO.	SHEET NO.
R-4463A	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 TO 4:1	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH WITH SLOPES STEEPER THAN 4:1. 7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES

PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-4/CONST. 4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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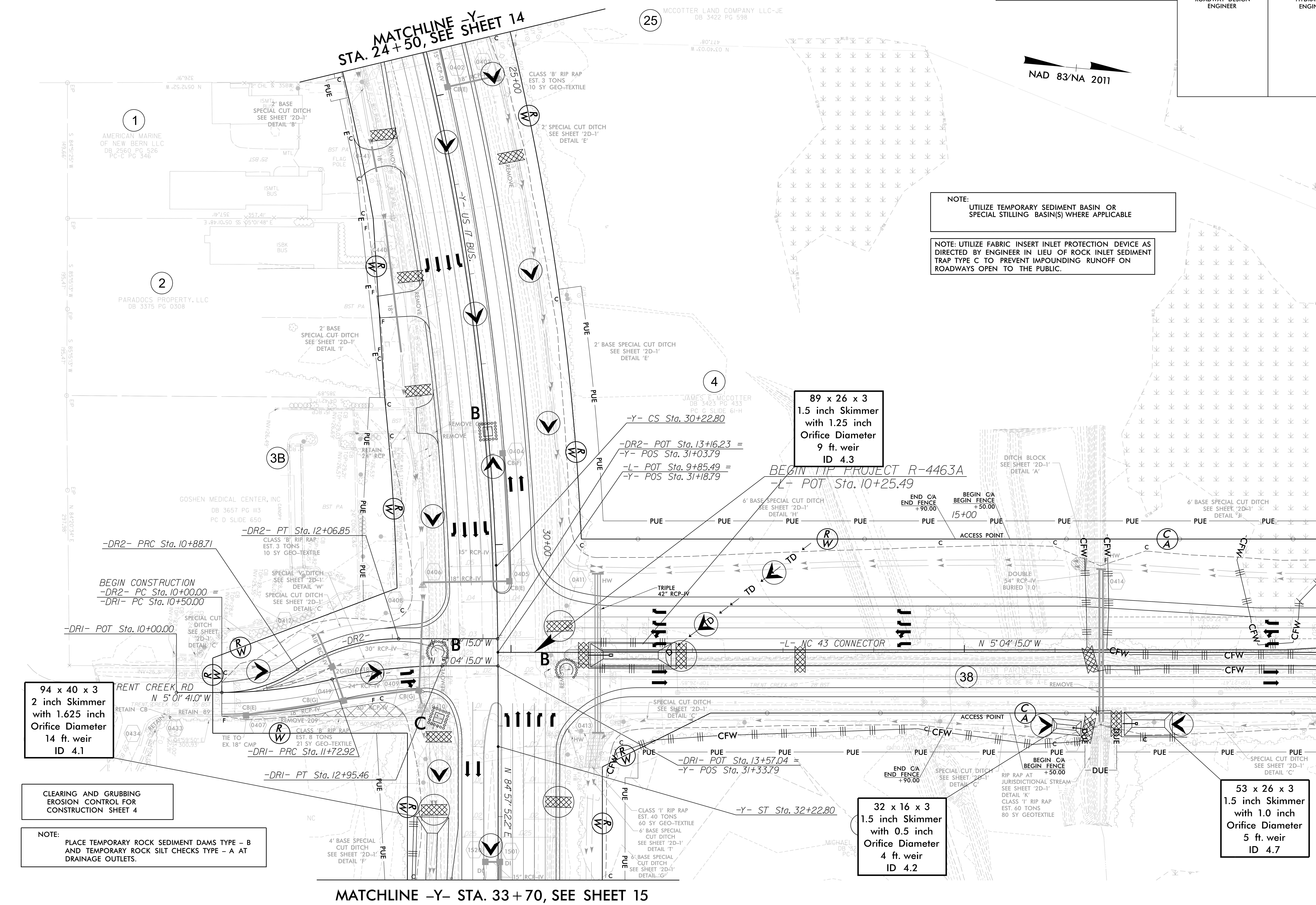

NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) WHERE APPLICABLE

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED BY ENGINEER IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

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

REVISIONS

PLOT DRIVER: NCDOT_pdf_color_eng.100 .CGM USE FOR 2 RESOLUTION: NCDOT_EC_C&G BW.tbl
USER: DWAGNER DATE: 4/24/2025 TIME: 12:52:16 PM
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PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-4A/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

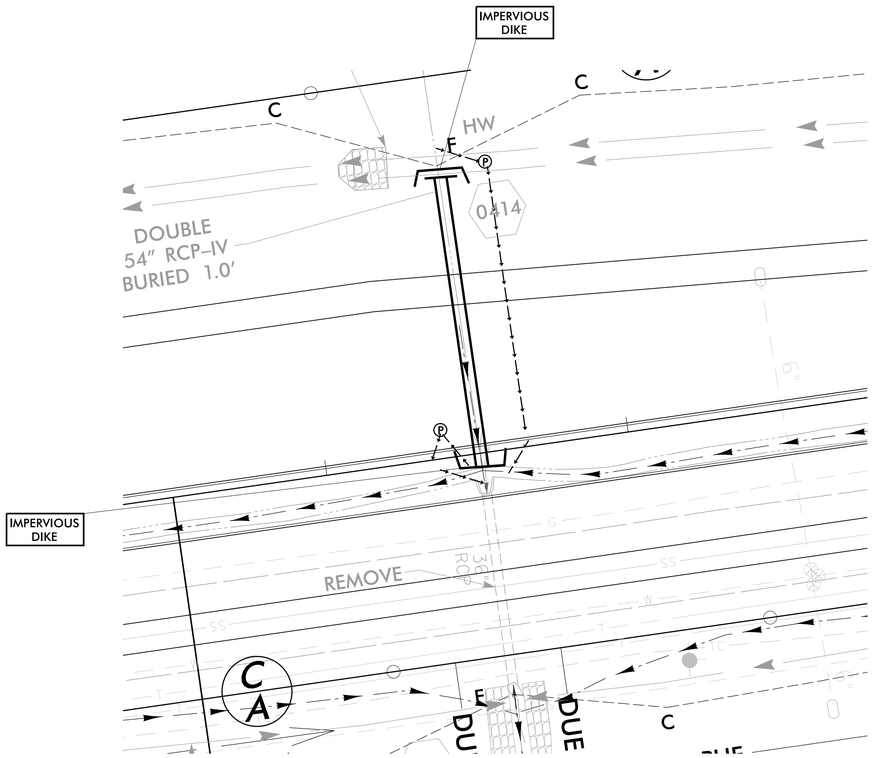
NOT TO SCALE

2 @ 54" RCP CONSTRUCTION SEQUENCE STA. 16+50 –L–

NAD 83

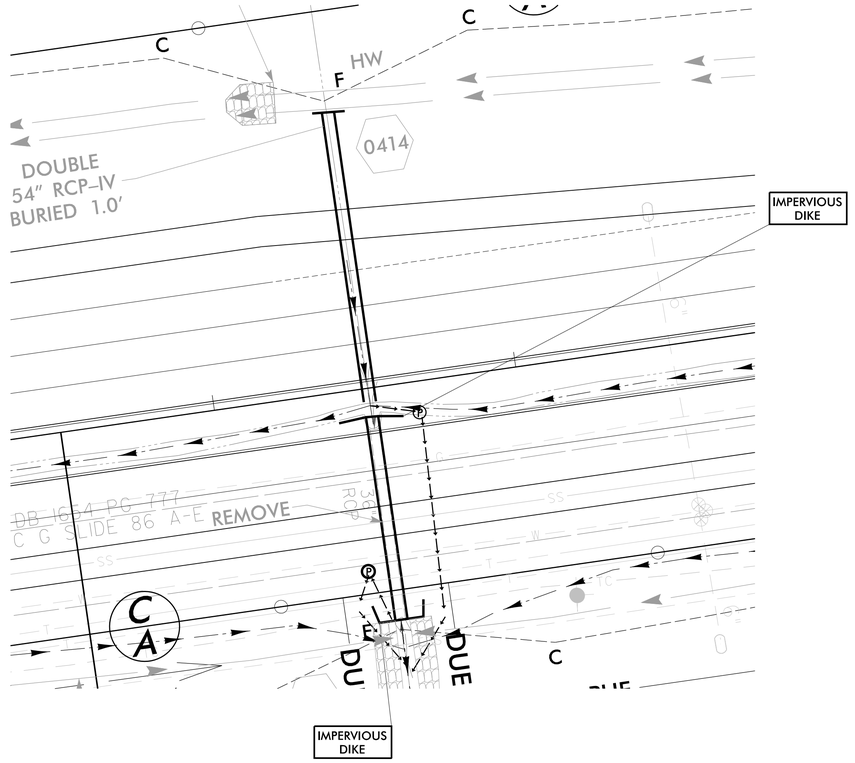
PHASE I

1. INSTALL IMPERVIOUS DIKES AT INLET AND OUTLET OF UPSTREAM SECTION OF 2 @ 54" RCPs TO ISOLATE WORK AREA.
2. INSTALL PUMP–AROUND OPERATION TO DIVERT WATER AROUND THE WORK AREA INTO THE EXISTING 36" RCP.
3. PROVIDE PUMP AND SPECIAL STILLING BASIN FOR DEWATERING OF THE WORK ZONE.
4. CONSTRUCT FIRST SECTION OF 2 @ 54" RCPs.
5. COMPLETE ANY NECESSARY CHANNEL IMPROVEMENTS.
6. REMOVE IMPERVIOUS DIKES TO ESTABLISH FLOW THROUGH NEWLY CONSTRUCTED CULVERT.
7. CONSTRUCT SOUTHBOUND LANES OF NEW ROADWAY.



PHASE II

1. SHIFT TRAFFIC TO NEWLY CONSTRUCTED SOUTHBOUND LANES OF ROADWAY.
2. INSTALL IMPERVIOUS DIKES AT INLET AND OUTLET OF EXISTING 36" RCP TO ISOLATE WORK AREA.
3. INSTALL PUMP–AROUND OPERATION TO DIVERT WATER AROUND THE WORK AREA.
4. PROVIDE PUMP AND SPECIAL STILLING BASIN FOR DEWATERING OF THE WORK ZONE.
5. REMOVE EXISTING 36" RCP.
6. CONSTRUCT NORTHBOUND PORTION OF 2 @ 54" RCPs AS SHOWN.



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PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-4B/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

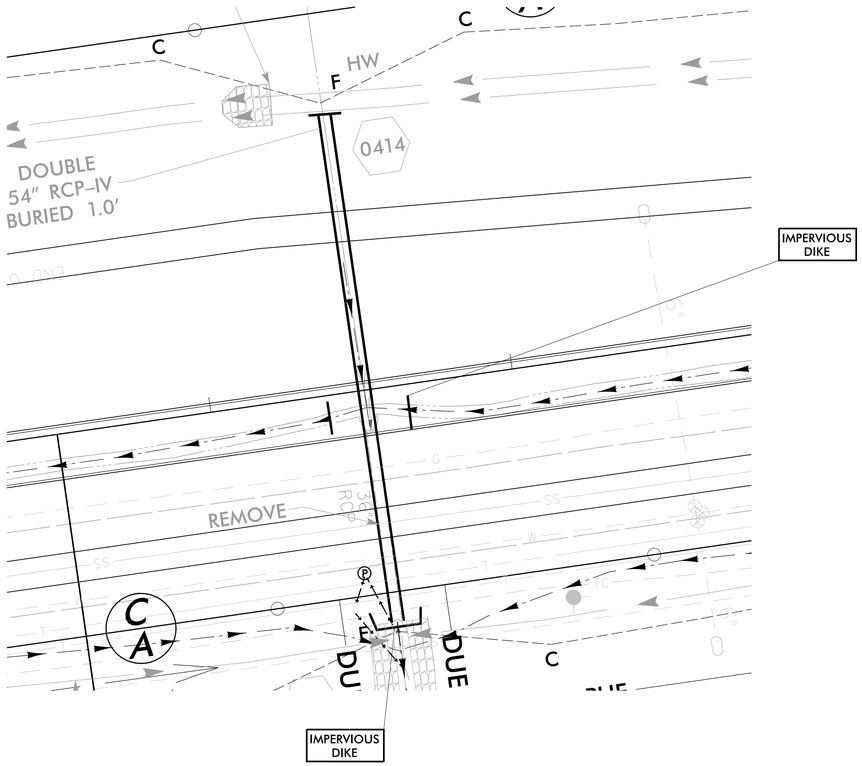
NOT TO SCALE

NAD 83

2 @ 54" RCP CONSTRUCTION SEQUENCE STA. 16+50 –L–

PHASE III

1. INSTALL IMPERVIOUS DIKES AS SHOWN.
2. CONSTRUCT REMAINING PORTION OF 2 @ 54" RCPs.
3. COMPLETE ANY NECESSARY CHANNEL IMPROVEMENTS.
4. REMOVE IMPERVIOUS DIKES TO ESTABLISH FLOW THROUGH NEWLY CONSTRUCTED CULVERT.
5. COMPLETE ROADWAY WORK.



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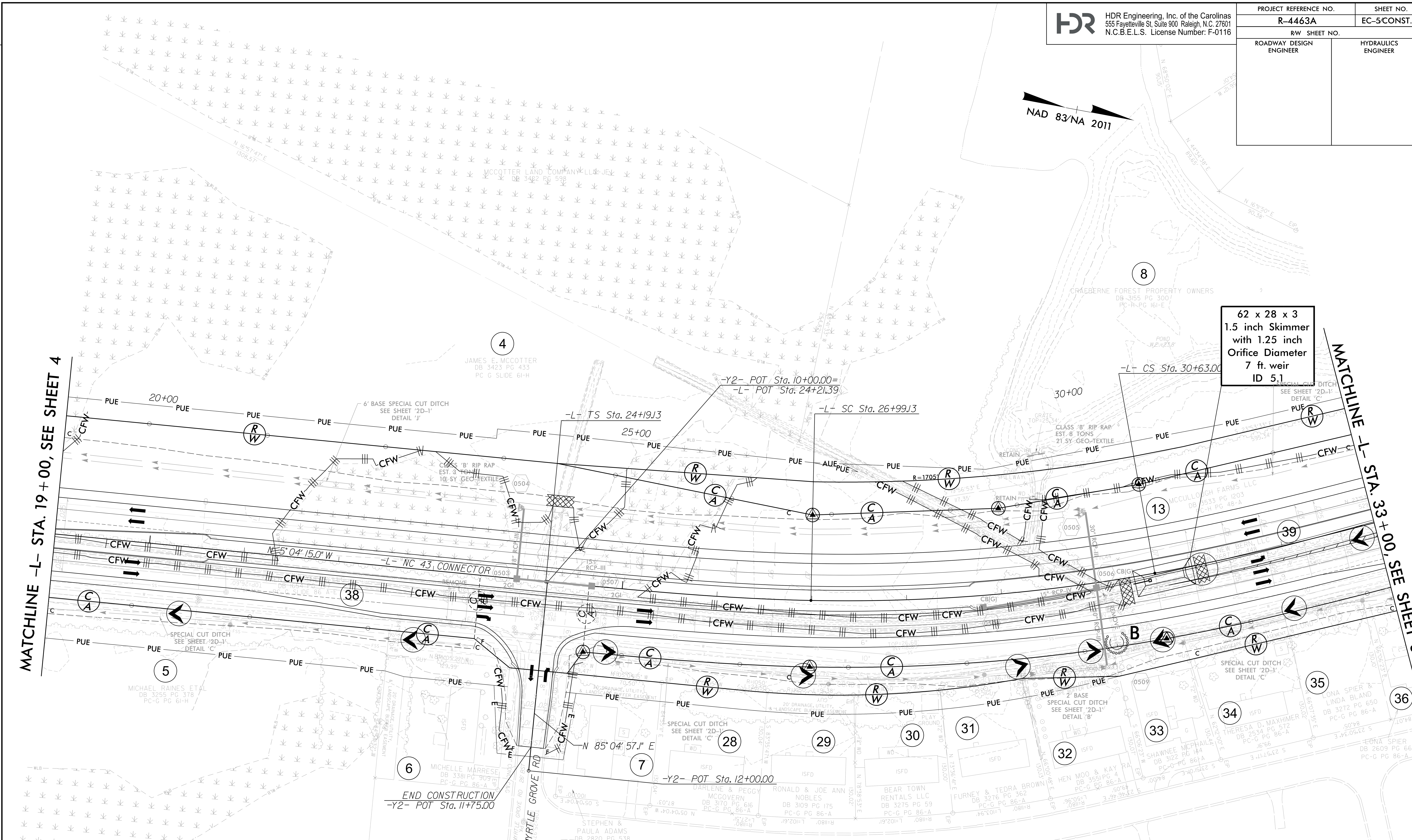
PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-5/CONST. 5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR
SPECIAL STILLING BASIN(S) 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 5

INSTALL PIPE(S) IN JURISDICTIONAL AREAS WITHOUT IMPACTING STREAM UNTIL
AREA STABILIZED AND ACCORDING TO NCDOT BEST MANAGEMENT
PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-6/CONST. 6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

MATCHLINE -L- STA. 33+00, SEE SHEET 5

MATCHLINE -L- STA. 47+00, SEE SHEET 7

BEGIN CONSTRUCTION -Y3- POT Sta. 10+25.00

-Y3- POT Sta. 10+00.00

-L- ST Sta. 33+43.00

-Y3- POT Sta. 12+25.07= -L- POT Sta. 35+97.27

-L- PC Sta. 38+74.59

-L- NC 43 CONNECTOR

-Y4- SHADOW BROOK LN

END CONSTRUCTION -Y4- POT Sta. 12+00.00

-Y4- POT Sta. 12+25.00

-Y4- POT Sta. 10+00.00= -L- POT Sta. 35+97.91

-L- PT Sta. 46+77.43

N 66°14'03.2" E 35+00

N 66°05'22.1" E

40+00

45+00

N 28°13'48.2" W

CRAEBERNE FOREST PROPERTY OWNERS DB 3155 PG 300 PC-H PG 161-E

CRAEBERNE FOREST PROPERTY OWNERS DB 2777 PG 573 PC-H PG 136-B

HUBERT A. MANNING, et ux DB 3237 PG 847 PC-H PG 161-E

JOYCE A. ROSSI DB 3510 PG 923 PC-H PG 161-E

GRYANT L. DAVIS, et ux DB 2914 PG PC-H PG 161-E

STEPHEN MULLER, et ux DB 2919 PG 781 PC-H PG 161-E

MCCULLOUGH FARMS, LLC DB 3533 PG 1203 PC-H PG 48-A

P&J OF NEW BERN, LLC DB 2687 PG 448

LEROY & PATRICIA EUBANKS DB 2638 PG 654 PC-G PG 86-A

LONA SPIER DB 2609 PG 66 PC-G PG 86-A

NEUSE BUILDERS OF NEW BERN INC DB 2618 PG 141 PC-G PG 195-A

STEVEN L. LUPTON DB 3145 PG 273 PC-G PG 195-C

RONALD & ELEANOR REYNOLDS DB 2462 PG 902 PC-G PG 195-C

CHARLES & YUMIKO HARRIS DB 2813 PG 837 PC-G PG 195-C

HAZEL B. MAGEE DB 2253 PG 70 PC-G PG 195-D

NICKOLAS J. MCCALESTER DB 3322 PG 146 PC-G PG 195-C

THOMAS M. HARRIS, ET AL DB 2816 PG 529 PC-H PG 136-A

GUBERNER BRENNER DB 3577 PG 351 PC-H PG 161-E

HARVEY R. CASE JR, et ux DB 2950 PG 657 PC-H PG 151-E

WILLIAM C DERBY DB 2842 PG 48 PC-H PG 151-E

JENNIFER JOHNSON DB 3262 PG 564 PC-H PG 151-E

CHRISTIAN J. KLEINHANS, et ux DB 3469 PG 540 PC-H PG 151-E

CHRISTOPHER & VICKI HOWE DB 3232 PG 635 PC-H PG 151-E

BEVERLY ANN RIOUX DB 3484 PG 321 PC-H PG 151-E

DOREEN WEESE DB 3483 PG 678 PC-H PG 151-E

CHRISTOPHER & STEPHANIE WALLER DB 2846 PG 135 PC-H PG 151-E

ASHLEY PARHAM DB 2863 PG 698 PC-H PG 151-E

HAZEL B. MAGEE DB 2640 PG 80 PC-G PG 195-D

POWELL PROPERTIES OF ENC, LLC DB 2662 PG PC-G PG 195-D

PO CHAR SWINT & PHIMPISA SWINTS DB 3519 PG 1178 PC-G PG 195-B

MEHM, LWIN ETAL DB 3151 PG 1740 PC-G PG 195-D

GARY & DENA BARBARO DB 2433 PG 284 PC-H PG 16-A

SPECIAL CUT DITCH SEE SHEET '2D-1' DETAIL 'C'

SPECIAL CUT DITCH SEE SHEET '2D-1' DETAIL 'D'

CLASS 'B' RIP RAP EST. 8 TONS 21 SY GEO-TEXTILE

CLASS 'B' RIP RAP EST. 8 TONS 10 SY GEO-TEXTILE

SEWER LINES OUTSIDE OF SURVEY LIMITS DRAWN FOR LOCATION ONLY

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.

REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-7/CONST. 7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

MATCHLINE -L- STA. 47+00, SEE SHEET 6

MATCHLINE -L- STA. 61+00, SEE SHEET 8

-L- NC 43 CONNECTOR

N 22° 55' 48.4" W

50+00 55+00 60+00

ASHLEY PARHAM DB 2863 PG 698 PC-H PG 151-E

TIMOTHY NORRIS DB 2893 PG 868 PC-H PG151-E

DANIEL RAPP DB 2856 PG 262 PC-H PG 151-E

PATRICK BOYHAN, et ux DB 3574 PG 64

CHERYL OSBOURNE DB 3579 PG 971 PC-H PG 181-B

LANGDON PAUL WALPER II, et ux DB 3505 PG 0920 PC-H PG 181-B

TAD & ANDREA MCCONNELL DB 3001 PG 373 PC-H PG 181-B

BELART & SANDRA LAROCHELLE DB 3020 PG 368 PC-H PG 181-B

13A BRDL CRAEBERNE FOREST, LLC DB 3786 PG 1316

13 MCCULLOUGH FARMS LLC DB 3533 PG 1203 PC-H PG 48-A

LATERAL 6' BASE DITCH SEE SHEET '2D-1' 470 CY DDE

LATERAL 6' BASE DITCH SEE SHEET '2D-1' DETAIL 'R' 1260 CY DDE

LEENHERT & ANN HAANSKORF DB 2491 PG 0 PC-H PG 16-A

TREVOR A. DUNNRILL, et al DB 3504 PG 682 PC-H PG 16-A

DEBORAH R. CARTER DB 3499 PG 406 PC-H PG 16-A

PATRICIA L. DRAUT DB 2422 PG 518 PC-H PG 16-A

CHARLES & LORRAINE BAUER DB 2422 PG 628 PC-H PG 16-A

LLOYD G. SHIVERS, et ux DB 3372 PG 620 PC-H PG 16-A

GARY & DENA BARBARO DB 2433 PG 284 PC-H PG 16-A

SEWER LINES OUTSIDE OF SURVEY LIMITS DRAWN FOR LOCATION ONLY

14 SHIRLEY ANTHEY, et al DB 3497 PG 1525 PC-H PG 16-A

NEUSE BUILDERS OF NEW BERN INC. DB 2438 PG 811 PC-H PG 16-A

15 BPNC LLC DB 3500 PG 1203 "PARCEL 5" PC-H PG 32-F

TC & I TIMBER COMPANY, LLC DB 2525 PG 1

SPECIAL CUT DITCH SEE SHEET '2D-1' DETAIL 'C'

CLASS 'B' RIP RAP EST. 3 TONS 10 SY GEO-TEXTILE

CLASS 'I' RIP RAP EST. 85 TONS 100 SY GEO-TEXTILE

66" RCP-III

18" RCP-III

82 x 40 x 3
2 inch Skimmer
with 1.625 inch
Orifice Diameter
12 ft. weir
ID 7.2

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7

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

REVISIONS

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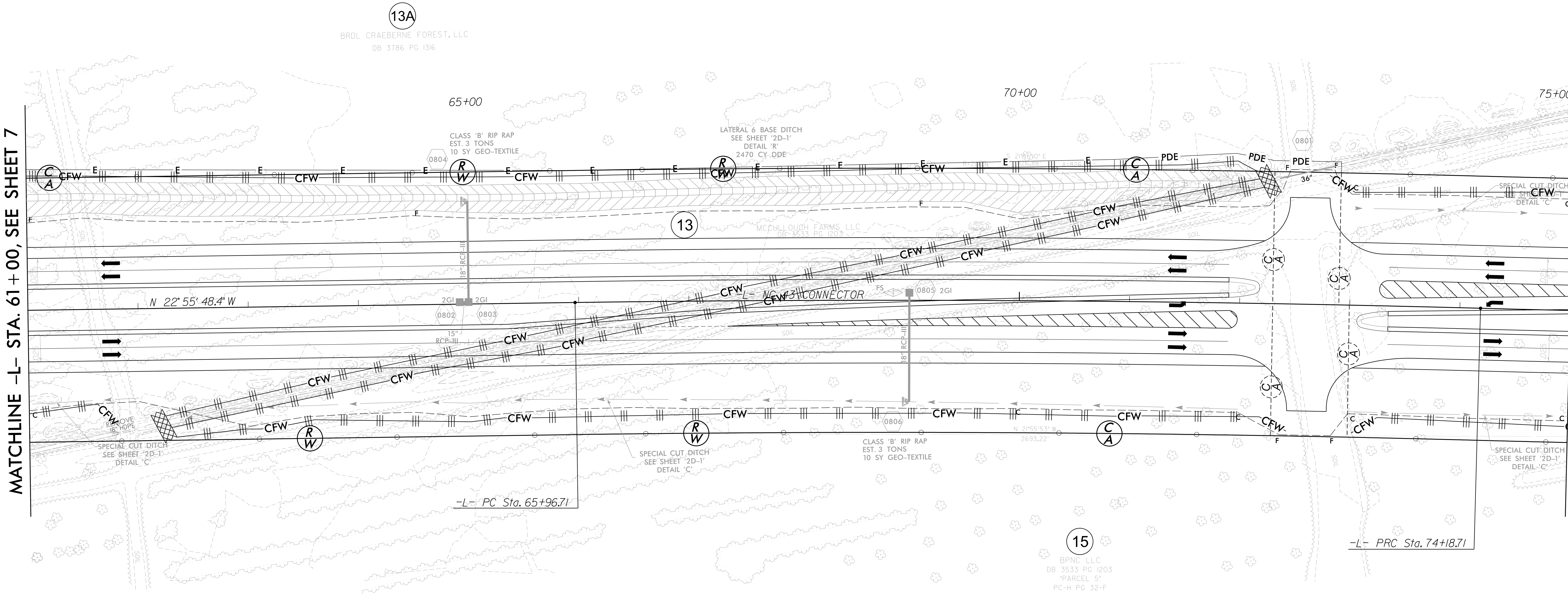
PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-8/CONST. 8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011



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.

REVISIONS

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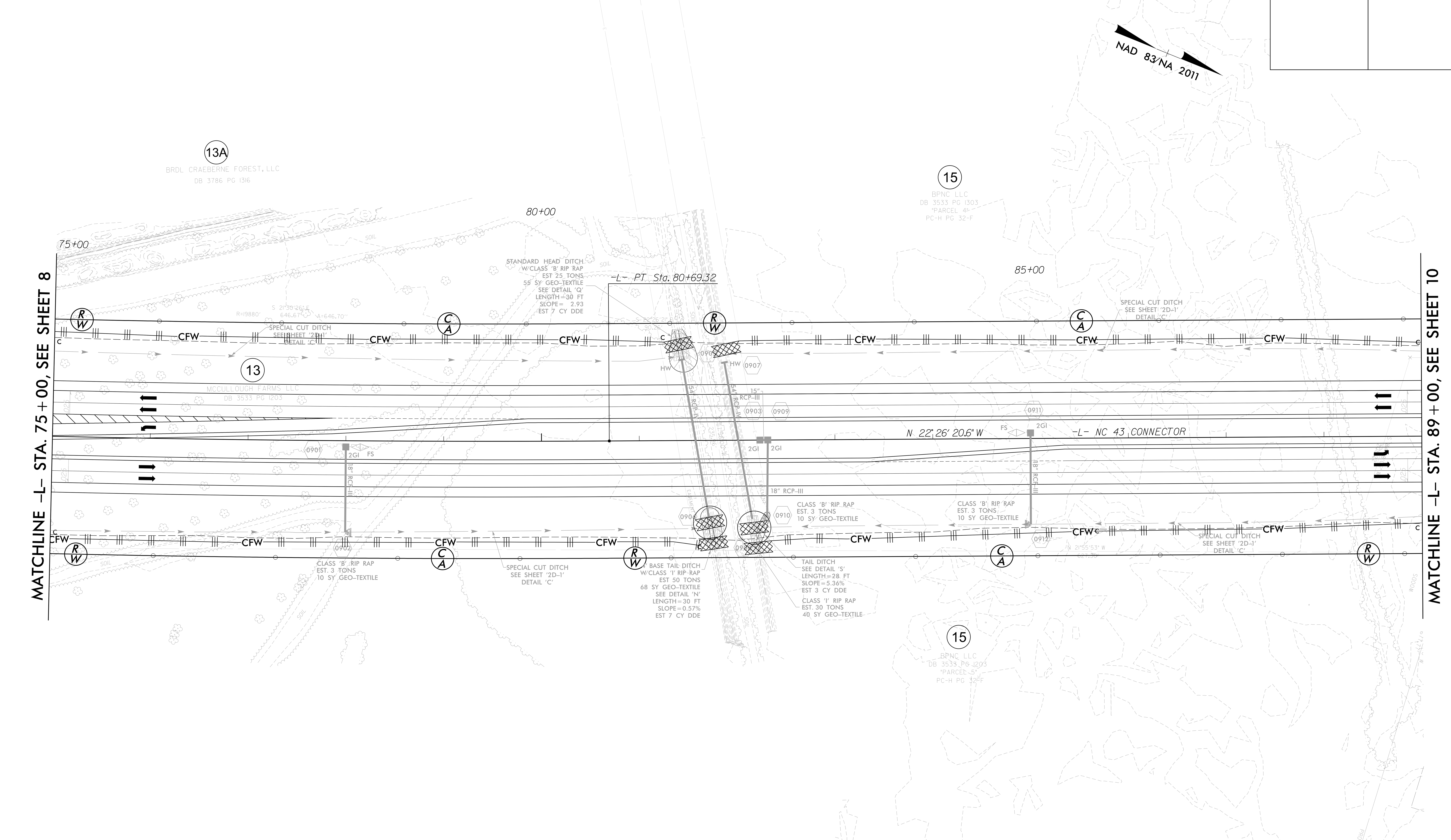
PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-9/CONST. 9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 9

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

REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-10/CONST. 10
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

115 x 25 x 3
1.5 inch Skimmer
with 1.5 inch
Orifice Diameter
11 ft. weir
ID 10.1

MATCHLINE -L- STA. 89+00, SEE SHEET 9

MATCHLINE -L- STA. 102+00, SEE SHEET 11

-L- NC 43 CONNECTOR

-L- TS Sta. 92+01.32

-L- SC Sta. 94+01.32

N 22° 26' 20.6" W

90+00

95+00

100+00

15

BPNC LLC
DB 3533 PG 1303
"PARCEL 4"
PC-H PG 32-E

WEYERHAEUSER REAL ESTATE DEVELOPMENT COMPANY MB 2894 PG 246

WEYERHAEUSER REAL ESTATE DEVELOPMENT COMPANY MB 2894 PG 246

SPECIAL CUT DITCH SEE SHEET '2D-1' DETAIL 'C'

RETAIN EXISTING DITCH

CLASS 'B' RIP RAP EST. 3 TONS 5Y GEOTEXTILE

CLASS 'B' RIP RAP EST. 5 TONS 10 SY GEO-TEXTILE

REMOVE 15" RCP

REMOVE 15" HDPE

Adj. DI

15" RCP-III

15" HDPE

24" RCP

4' CONC WW

48" WW ISBW

25' PAVED ROADWAY

END CONTROL OF ACCESS

NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) WHERE APPLICABLE

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 10

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

REVISIONS

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TIME: 11:07:28 AM
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CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 11

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

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PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-11/CONST. 11
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CITY OF NEW BERN
WELL SITE #11

N 34°47'23" E
249.33'

S 55°09'38" E
250.27'

EIP

WEYERHAEUSER REAL ESTATE
DEVELOPMENT COMPANY
MB 2894 PG 246

NAD 83/NA 2011

105+00

110+00

115+00

MATCHLINE –L– STA. 102+00, SEE SHEET 10

MATCHLINE –L– STA. 115+00, SEE SHEET 12

–L– NC 43 CONNECTOR

SPECIAL CUT DITCH
SEE SHEET '2D-1'
DETAIL 'C'

CLASS 'B' RIP RAP
EST. 3 TONS
10 SY GEO-TEXTILE

WOODS

CFW

REMOVE

18" RCP-III

15" RCP-III

24" RCP

31' PAVED ROADWAY

2GI

DI

JB wMH

1101 1102 1103 1104 1105 1106 1107 1108 1110 1111 1113 1114 1115 1116

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REVISIONS

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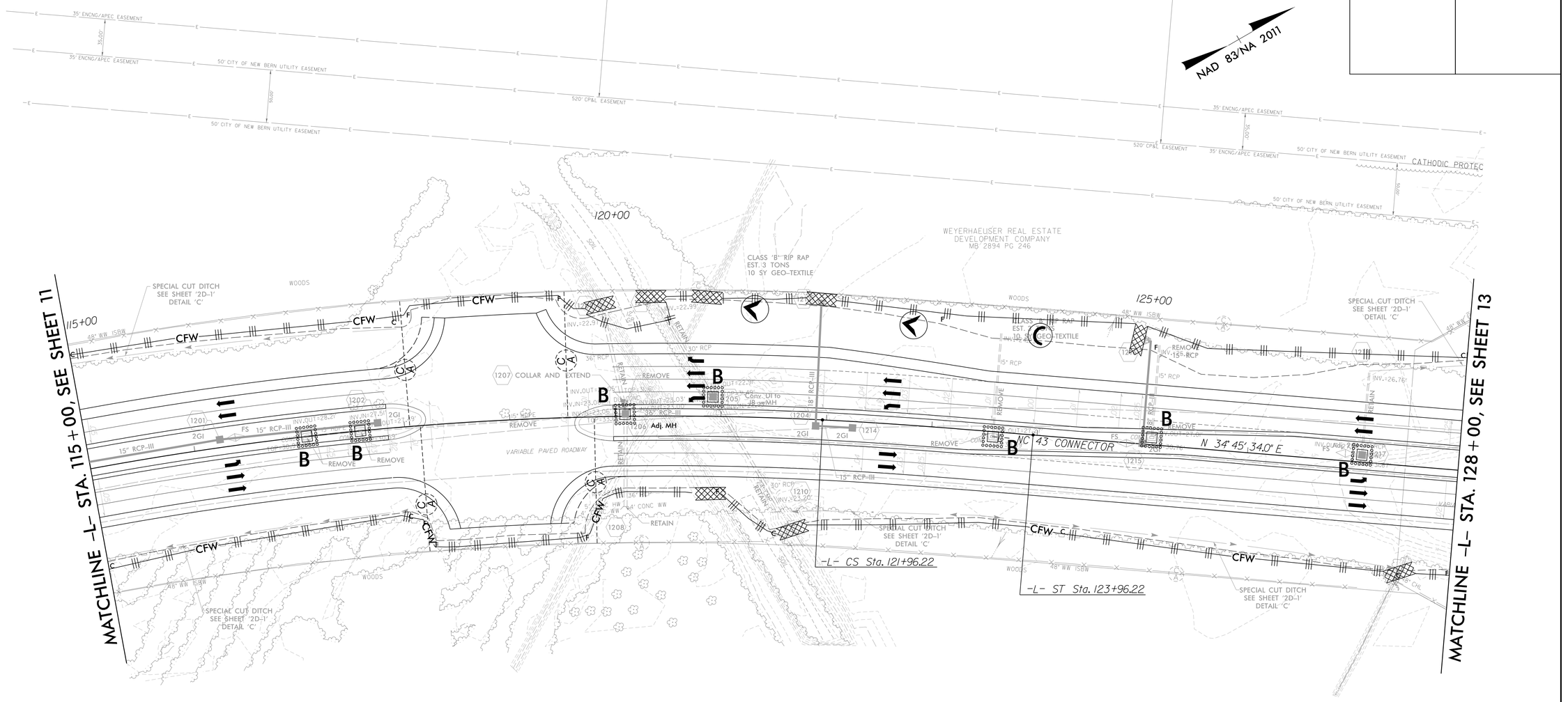
PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-12/CONST. 12
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011



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.

REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-13/CONST. 13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 13

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

NAD 83/NA 2011

MATCHLINE -L- STA. 128+00, SEE SHEET 12

WEYERHAEUSER REAL ESTATE DEVELOPMENT COMPANY MB 2894 PG 246

130+00 135+00 140+00

-L- POT Sta. 140+00.00

CATHODIC PROTECTION

WOODS

CFW

VARIABLE PAVED ROADWAY

RETAIN
TOP=38.00
INV=35.37

RETAIN
TOP=53.33

NC 43 EXTENSION
PAVEMENT VARIES

CONC BRIDGE DECK

B RETAIN N 34°45' 34.0" E -L- NC 43 CONNECTOR
INV=34.93 (IN)
INV=34.83 (OUT)

RETAIN
TOP=49.60

INV=38.88

END GRADE
BEGIN 2" MILL/FILL
-L- POT Sta. 130+20.00

END TIP PROJECT R-4463A
END 2" MILL/FILL
-L- POT Sta. 136+14.30

FOR RIGHT OF WAY ALONG US70 AND THE RAMPS
PLEASE REFER TO PROJECT 3560U/R-4463B!

REVISIONS

PLOT DRIVER: NCDOT_pdf_color_eng_100 _CGM USE FOR 22"X36" PLOTS ONLY
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N.C.B.E.L.S. License Number: F-0116

PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-13A/CONST.13A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

BEGIN 2" MILL/FILL
AT BACK OF GORE/TIE
TO I-6002 PROJECT LIMITS
(BY OTHERS)

RETAIN

MATCHLINE RESURFACING, SEE SHEET 13

BEGIN 2" MILL/FILL
AT BACK OF GORE/TIE
TO I-6002 PROJECT LIMITS
(BY OTHERS)

REVISIONS

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HDR Engineering, Inc. of the Carolinas
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N.C.B.E.L.S. License Number: F-0116

PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-14/CONST. 14
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

-Y1- POT Sta. 14+96.96

END CONSTRUCTION
-Y1- POT Sta. 12+75.00

-Y1- PT Sta. 12+48.18

-Y1- POT Sta. 10+00.00 =
-Y- POC Sta. 21+50.00

-Y- POT Sta. 10+00.00

END 2" MILL/FILL
BEGIN GRADE
-Y- POT Sta. 14+40.00

-Y1- PC Sta. 10+80.05

BEGIN CONSTRUCTION
BEGIN 2" MILL/FILL
TIE TO EXISTING MARKINGS
-Y- STA.10+90 +/-

-Y- TS Sta. 18+54.04

-Y- SC Sta. 20+54.04

MATCHLINE -Y-
STA. 24+50, SEE SHEET 4

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 14

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

REVISIONS

PLOT DRIVER: NCDOT_pdf_color_eng.100 _CGM USE FOR 22x36 ONLY
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PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-15/CONST. 15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

85 x 42 x 3
2 inch Skimmer
with 1.75 inch
Orifice Diameter
14 ft. weir
ID 15.4

NAD 83/NA 2011

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

68 x 25 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
7 ft. weir
ID 15.5

MATCHLINE -Y- STA. 33+70, SEE SHEET 4

MATCHLINE -Y- STA. 48+00, SEE SHEET 15A

5 MICHAEL RAINES ETAL DB 3255 PG 378 PC-G PG 6I-H

26 BLUE GRASS RENTALS DB 3499 PG 1376

3 WILLIAM F. WARD TRUST DB 3255 PG 384

3A GOSHEN MEDICAL CENTER, INC DB 3657 PG 1113 PC I SLIDE 184-E

27 S H & M REAL ESTATE INVESTMENTS, LLC DB 3671 PG 650

27A CRAIG QUALLS, et ux DB 3675 PG 587 PC D SLIDE 564

FAITH UNITED METHODIST CHURCH PARKING AREA DB 1175 PG 103

CHANNEL IMPROVEMENT (TIE STREAM TO 6' BASE SPECIAL CUT DITCH) EST 8 CY DDE SEE SHEET '2D-1' DETAIL 'I'

6' BASE SPECIAL CUT DITCH SEE SHEET '2D-1' DETAIL 'G'

RETAIN AND EXTEND 5' X 4' RCBC APPROX. 40 LF INLET APPROX. 11 LF OUTLET

DITCH BLOCK SEE SHEET '2D-1' DETAIL 'U' CLASS 'I' RIP RAP EST. 25 TONS 26 SY GEOTEXTILE #57 STONE EST. 2 TONS

6' BASE SPECIAL CUT DITCH SEE SHEET '2D-1' DETAIL 'H'

CLASS 'B' RIP RAP EST. 3 TONS 10 SY GEO-TEXTILE

-Y- +89.00 150.00' LT & 140.00' LT

-Y- +99.00 150.00' LT & 140.00' LT

-Y- +00.00 115.00' LT

CULVERT INLET AND OUTLET BANK STABILIZATION SEE SHEET 2D-1 DETAIL Z

CLASS 'I' RIP RAP EST. 25 TONS 35 SY GEO-TEXTILE EST 10 CY DDE

2' BASE TAIL DITCH SEE DETAIL 'V' LENGTH = 20 FT SLOPE = 0.15% EST. 3 CY DDE 5 TONS CL I RIP RAP 12 SY GEOTEXTILE

2' BASE SPECIAL CUT DITCH SEE SHEET '2D-1' DETAIL 'B'

4' BASE SPECIAL CUT DITCH SEE SHEET '2D-1' DETAIL 'F'

CLASS 'B' RIP RAP EST. 3 TONS 5 SY GEO-TEXTILE

-Y- +77.00 113.00' RT

LATERAL 4' BASE DITCH EST 10 CY DDE SEE SHEET '2D-1' DETAIL 'M'

CLASS 'I' RIP RAP EST. 35 TONS 45 SY GEO-TEXTILE

-Y- +91.00 112.00' RT & 90.00' RT

-Y- +40.00 112.00' RT & 89.00' RT

-Y- +40.00 89.00' RT & EX. R/W

TOE PROTECTION SEE SHEET '2D-1' DETAIL 'X' CLASS 'B' RIP RAP EST. 54 TONS 120 SY GEOTEXTILE

CLASS 'I' RIP RAP EST. 25 TONS 45 SY GEO-TEXTILE EST 10 CY DDE

RIP RAP AT EMBANKMENT EST 3 TONS CLASS I RIP RAP 9 SY GEOTEXTILE SEE DETAIL 'AA'

-Y- +25.00 105.00' RT & 88.00' RT & EX. R/W

2' BASE SPECIAL CUT DITCH SEE SHEET '2D-1' DETAIL 'B'

BST FA CLASS 'B' RIP RAP EST. 3 TONS 10 SY GEO-TEXTILE

ISMTL BUS

CULVERT INV ELEV. = 14.9'
STREAM BED ELEV. = 15.9'

CULVERT INV ELEV. = 14.5'
STREAM BED ELEV. = 15.5'

2-9'x6' RCBC w/ WINGWALLS (BURIED 1')
2' SILL IN EASTERN BARREL
1' SILL IN WESTERN BARREL

-Y- US 17 BUS.

N 84°57'52.2" E

35+00

40+00

45+00

END GRADE
BEGIN 3" OVERLAY
-Y- POT Sta. 46+40.00

NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) WHERE APPLICABLE

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.

PAVED SHOULDER

SEE SHEET 2B-2 FOR -DET_EB- & -DET_WB- PLAN
SEE SHEETS 22 & 23 FOR -Y- PROFILE
SEE SHEETS C1-1 THRU C1-6 & C2-1 THRU C2-6 FOR CULVERT PLANS

PARCELS 3A & 27A CREATED FOR NEW OWNERS AND PARCEL BOUNDARIES

7/22/2022:

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HDR Engineering, Inc. of the Carolinas
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-15A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	

NAD 83/NA 2011

MATCHLINE -Y- STA. 48+00, SEE SHEET 15

N 65°50'32" E
142.51'

END 3" OVERLAY
BEGIN 2" MILL/FILL
-Y- POT Sta. 48+25.00

JEAN E. WACHTER
DB 2759 PG 432

S 24°56'45" E
303.25'

-Y- POT Sta. 50+30.37

PA

PARKING AREA
WILSON, JR.
37 PG 018
PG 198-H

PARKING AREA

24' C&G

PARKING AREA

PARKING AREA

END CONSTRUCTION
END 2" MILL/FILL
TIE TO EXISTING MARKINGS
1310' EAST OF STA. 48+25.00

36' BST

EIP

EIP

26' BST

30' BST

25' GR

30' BST

-Y- US 17 BUS. 50+00

N 84° 57' 52.2" E

PARKING AREA

14' BST

PARKING AREA

9' BST

14' GR

11' GR

55' GR

PAVED SHOULDER

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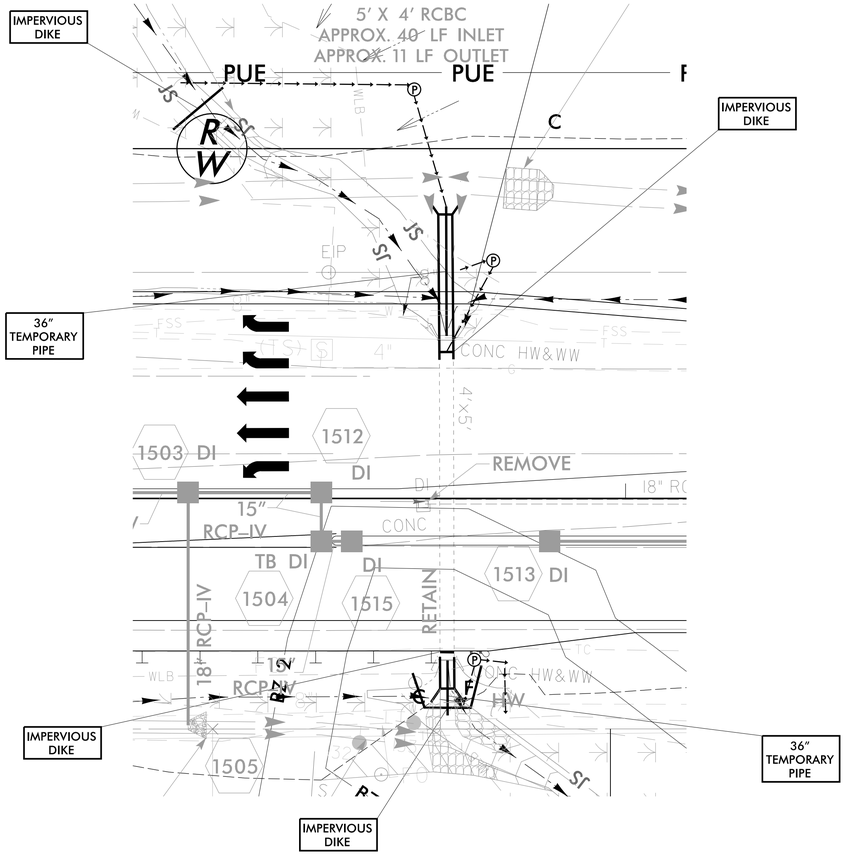
PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-15B/CONST.15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOT TO SCALE

NAD 83

4' X 5' RCBC CONSTRUCTION SEQUENCE STA. 36+40 –Y–



1. CONSTRUCT PORTION OF FINAL LEFT AND RIGHT DITCHES AT INLET OF FUTURE 4'X5' RCBC EXTENSION. UTILIZE IMPERVIOUS DIKES AND PUMP AS SHOWN.
2. INSTALL TEMPORARY 36" PIPES AND IMPERVIOUS DIKES AT INLET AND OUTLET OF CULVERT TO ISOLATE WORK AREA.
3. DIVERT WATER THROUGH NEWLY CONSTRUCTED DITCHES INTO TEMPORARY 36" PIPE AT INLET OF EXISTING 4'X5' RCBC.
4. PROVIDE PUMP AND SPECIAL STILLING BASIN FOR DEWATERING OF THE WORK ZONE AT UPSTREAM AND DOWNSTREAM ENDS.
5. CONSTRUCT CULVERT EXTENSIONS.
6. COMPLETE ANY NECESSARY CHANNEL IMPROVEMENTS.
7. REMOVE IMPERVIOUS DIKES TO ESTABLISH FLOW THROUGH NEWLY CONSTRUCTED CULVERT.

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PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-15C/CONST.15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

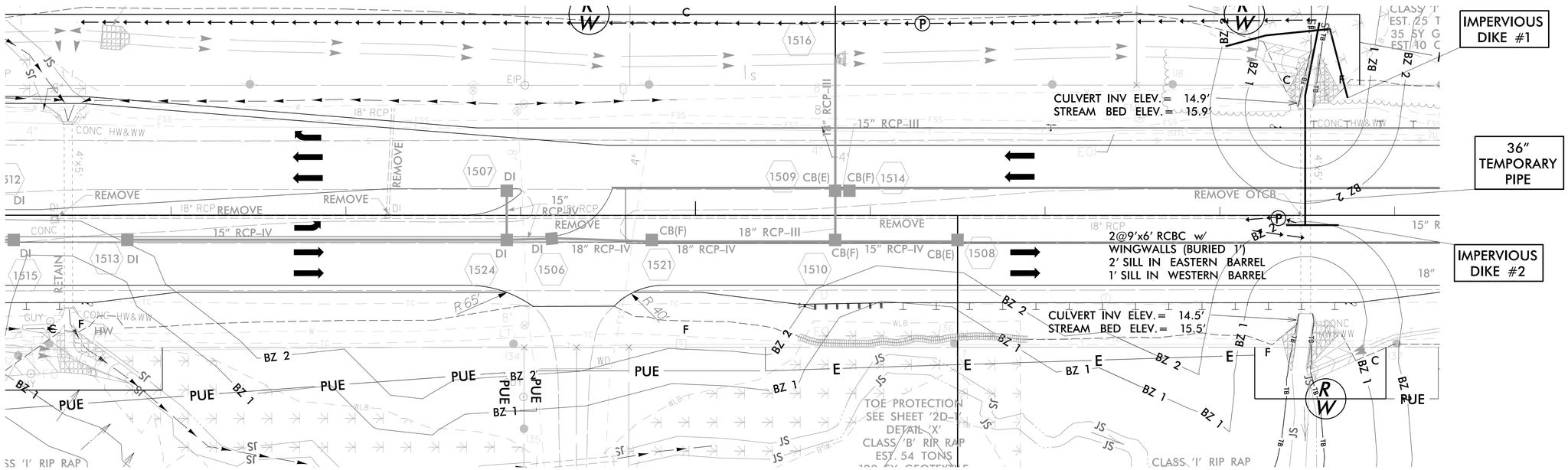
NOT TO SCALE

NAD 83

2 @ 9′ X 6′ RCBC CONSTRUCTION SEQUENCE STA. 43+50 –Y–

PHASE I

1. SHIFT TRAFFIC TO SOUTH SIDE.
2. INSTALL IMPERVIOUS DIKE #1 AT INLET OF EXISTING 4′X5′ RCBC TO ISOLATE WORK AREA.
3. INSTALL PUMP–AROUND OPERATION TO DIVERT WATER AWAY FROM THE WORK AREA. STABILIZE OUTLET OF PUMPED DISCHARGE.
4. REMOVE NORTH SECTION OF EXISTING 4′X5′ RCBC.
5. INSTALL IMPERVIOUS DIKE #2 AT INLET OF REMAINING SECTION OF 4′X5′ RCBC AND INSTALL TEMPORARY 36″ PIPE IN PLACE OF REMOVED SECTION OF EXISTING 4′X5′ RCBC.
6. PROVIDE PUMP AND SPECIAL STILLING BASIN FOR DEWATERING OF THE WORK ZONE INTO REMAINING SECTION OF EXISTING 4′X5′ RCBC.
7. ESTABLISH FLOW THROUGH TEMPORARY 36″ PIPE AND REMAINING SECTION OF 4′X5′ RCBC AND REMOVE PUMP–AROUND OPERATION.



NOTE: IT IS ASSUMED THAT THE CONSTRUCTION OF THE CULVERT AT STA. 36+40 –Y– WILL HAVE BEEN COMPLETED OR WILL COINCIDE WITH CONSTRUCTION OF 2@9′X6′ RCBC.

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PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-15D/CONST.15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

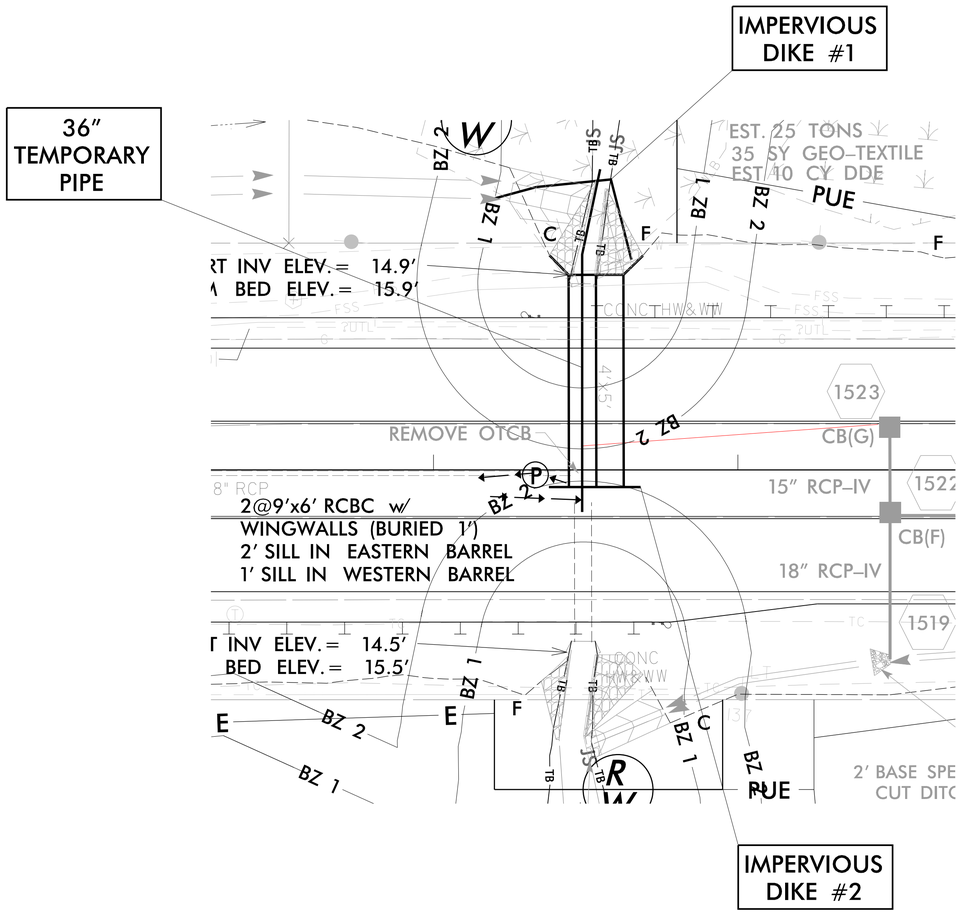
2 @ 9′ X 6′ RCBC CONSTRUCTION SEQUENCE STA. 43+50 –Y– (CONTINUED)

NOT TO SCALE

NAD 83

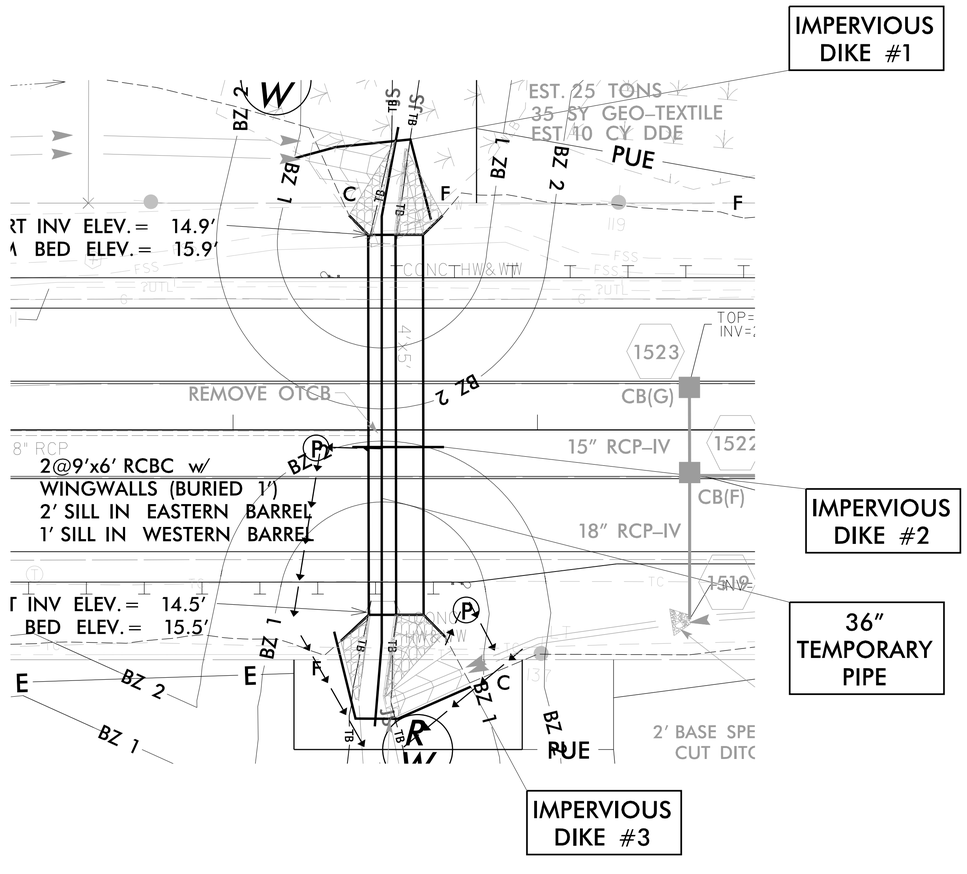
PHASE II

1. INSTALL NORTH SECTION OF BOTH BARRELS OF NEW 9′X6′ RCBC.
2. MAINTAIN FLOW THROUGH TEMPORARY PIPE.
3. FINISH ROAD SURFACE OVER PORTION OF NEWLY CONSTRUCTED CULVERT.



PHASE III

1. SHIFT TRAFFIC TO NORTH SIDE.
2. INSTALL IMPERVIOUS DIKE #3 TO ISOLATE WORK AREA.
3. INSTALL PUMP–AROUND OPERATION TO DIVERT WATER AWAY FROM THE WORK AREA AS SHOWN.
4. PROVIDE PUMP AND SPECIAL STILLING BASIN FOR DEWATERING OF THE WORK ZONE AS SHOWN.
5. REMOVE REMAINING SECTION OF EXISTING 4′X5′ RCBC.
6. EXTEND TEMPORARY 36″ PIPE TO IMPERVIOUS DIKE AT OUTLET AND REMOVE PUMP–AROUND OPERATION. REMOVE IMPERVIOUS DIKE #2.
7. INSTALL REMAINING SECTION OF BOTH BARRELS OF NEW 9′X6′ RCBC WHILE MAINTAINING FLOW THROUGH TEMPORARY 36″ PIPE.
8. COMPLETE ANY NECESSARY CHANNEL IMPROVEMENTS.
9. REMOVE IMPERVIOUS DIKES AND TEMPORARY 36″ PIPE TO ESTABLISH FLOW THROUGH NEWLY CONSTRUCTED CULVERT.



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PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-16/CONST. 4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCHLINE –Y– STA. 24+50, SEE SHEET 14

NAD 83/NA 2011

NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) WHERE APPLICABLE

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED BY ENGINEER IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.

1.5 inch Skimmer with 1.375 inch Orifice Diameter 14 ft. weir with 2.5 ft. weir height ID 4.5 (See Earthen Dam with Skimmer Detail)

1.5 inch Skimmer with 1 inch Orifice Diameter 7 ft. weir with 2 ft. weir height ID 4.6 (See Earthen Dam with Skimmer Detail)

1.5 inch Skimmer with 1.250 inch Orifice Diameter 15 ft. weir with 3.25 ft. weir height ID 4.4 (See Earthen Dam with Skimmer Detail)

Place Matting for Erosion Control on Slope as Work Allows.
Sta. 15+00 to Sta. 15+50 –L– Lt
Sta. 16+50 to Sta. 17+00 –L– Lt
Sta. 16+50 to Sta. 17+00 –L– Rt

32 x 16 x 3
1.5 inch Skimmer with 0.5 inch Orifice Diameter 4 ft. weir ID 4.2

53 x 26 x 3
1.5 inch Skimmer with 1.0 inch Orifice Diameter 5 ft. weir ID 4.7

MATCHLINE –Y– STA. 33+70, SEE SHEET 15

MATCHLINE –L– STA. 19+00, SEE SHEET 5

REVISIONS

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N.C.B.E.L.S. License Number: F-0116

PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-17/CONST. 5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

MATCHLINE -L- STA. 19+00, SEE SHEET 4

MATCHLINE -L- STA. 33+00, SEE SHEET 6

JAMES E. MCCOTTER
DB 3423 PG 433
PC G SLIDE 61-H

MCCOTTER LAND COMPANY, LLC -JE-
DB 3482 PG 598

CRAEBERNE FOREST PROPERTY OWNERS
DB 3155 PG 300
PC-H PG 161-E

-Y2- POT Sta. 10+00.00=
-L- POT Sta. 24+21.39

-L- TS Sta. 24+19.13

-L- SC Sta. 26+99.13

-L- CS Sta. 30+63.00

-Y2- POT Sta. 12+00.00

END CONSTRUCTION
-Y2- POT Sta. 11+75.00

6' BASE SPECIAL CUT DITCH
SEE SHEET '2D-1'
DETAIL 'J'

CLASS 'B' RIP RAP
EST. 3 TONS
10 SY GEO-TEXTILE

CLASS 'B' RIP RAP
EST. 8 TONS
21 SY GEO-TEXTILE

SPECIAL CUT DITCH
SEE SHEET '2D-1'
DETAIL 'C'

SPECIAL CUT DITCH
SEE SHEET '2D-1'
DETAIL 'B'

N 5°04'15.0" W

N 85°04'57.1" E

NC 43 CONNECTOR

REMOVE

MYRTLE GROVE RD

-Y2- MYRTLE GROVE RD

TRENT PARTNERS, LLC
DB 1654 PG 777
PC-G SLIDE 86 A-E

MICHAEL RAINES ETAL
DB 3255 PG 378
PC-G PG 61-H

MICHELLE MARRESE
DB 3381 PG 909
PC-G PG 86-A

STEPHEN & PAULA ADAMS
DB 2820 PG 538

DARLENE & PEGGY MCGOVERN
DB 3170 PG 616
PC-G PG 86-A

RONALD & JOE ANN NOBLES
DB 3109 PG 175
PC-G PG 86-A

BEAR TOWN RENTALS LLC
DB 3275 PG 59
PC-G PG 86-A

FURNEY & TEDRA BROWN
DB 3276 PG 362
PC-G PG 86-A

HEN MOO & KAY
DB 3551 PG 4
PC-G PG 86-A

THERESA D. MAXHIMER
DB 2534 PG 572
PC-G PG 86-A

SHAWNEE MCPHAIL
DB 3[illegible] PG 144
PC-G PG 86-A

LONA SPIER & LINDA BLAND
DB 3272 PG 650
PC-G PG 86-A

LONA SPIER
DB 2609 PG 66
PC-G PG 86-A

P&J OF NEW BERN, LLC
DB 3687 PG 1448

MCCOTTER FARMS LLC
DB 3482 PG 1203

POND
W.E.=23.8'

NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR
SPECIAL STILLING BASIN(S) WHERE APPLICABLE

Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 28+00 to Sta. 28+50 -L- Rt
Sta. 29+50 to Sta. 32+00 -L- Rt

1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
16 ft. weir with
3 ft. weir height
ID 5.2
(See Earthen Dam
with Skimmer Detail)

REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-17A/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

HDR Engineering, Inc. of the Carolinas
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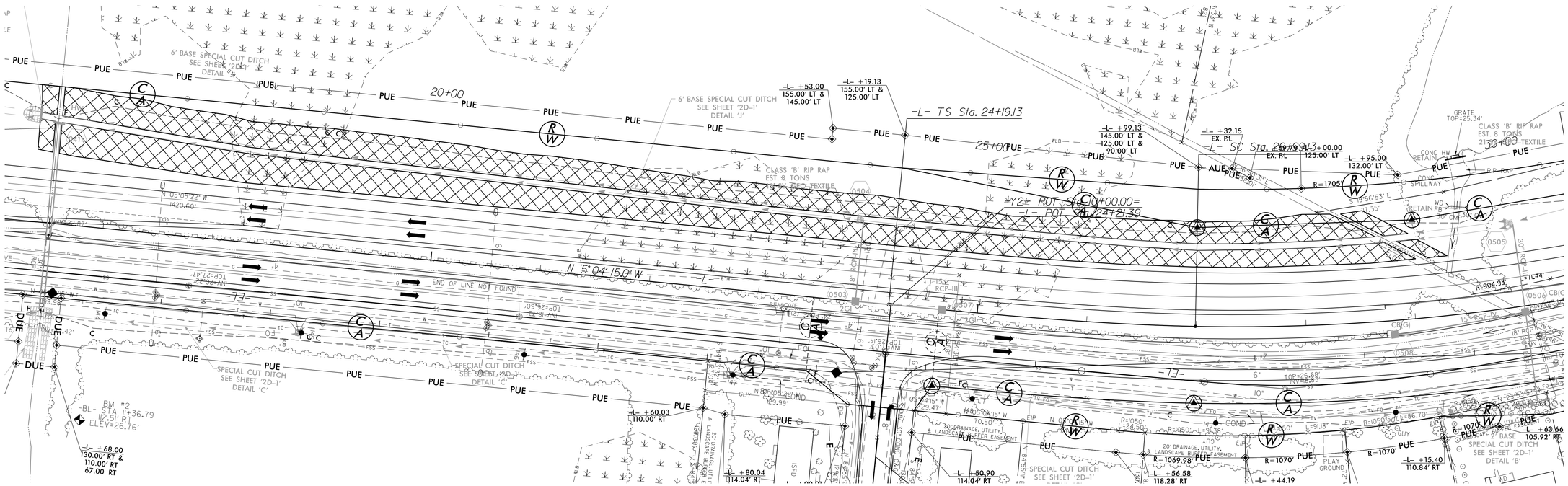
N.C.B.E.L.S. License Number: F-0116

1.20 ACRE STREAMBANK REFORESTATION

LEGEND

STREAMBANK REFORESTATION



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

HDR Engineering, Inc. of the Carolinas
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PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-18/CONST. 6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

MATCHLINE –L– STA. 33+00, SEE SHEET 5

MATCHLINE –L– STA. 47+00, SEE SHEET 7

-Y3- POT Sta. 10+25.00

BEGIN CONSTRUCTION
-Y3- POT Sta. 10+25.00

-Y3- POT Sta. 10+00.00

N 66°14'03.2" E
35+00

-L- ST Sta. 33+43.00

-Y3- POT Sta. 12+25.07=
-L- POT Sta. 35+97.27

-L- PC Sta. 38+74.59

40+00

45+00

-L- NC 43 CONNECTOR

-Y3- SAVOY DR

-Y4- SHADOW BROOK LN

N 28°13'48.2" W

N 66°05'22.1" E

-Y4- POT Sta. 12+25.00

-Y4- POT Sta. 10+00.00=
-L- POT Sta. 35+97.91

-L- PT Sta. 46+77.43

END CONSTRUCTION
-Y4- POT Sta. 12+00.00

SPECIAL CUT DITCH
SEE SHEET '2D-1'
DETAIL 'C'

SPECIAL CUT DITCH
SEE SHEET '2D-1'
DETAIL 'D'

CLASS 'B' RIP RAP
EST. 8 TONS
21 SY GEO-TEXTILE

CLASS 'B' RIP RAP
EST. 8 TONS
10 SY GEO-TEXTILE

SEWER LINES OUTSIDE OF SURVEY LIMITS DRAWN FOR LOCATION ONLY

Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 44+00 to Sta. 58+00 –L– Lt
Sta. 46+50 to Sta. 59+50 –L– Rt

REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-19/CONST. 7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

MATCHLINE -L- STA. 47+00, SEE SHEET 6

MATCHLINE -L- STA. 61+00, SEE SHEET 8

-L- NC 43 CONNECTOR

N 22° 55' 48.4"W

2.5 inch Skimmer with 2.375 inch Orifice Diameter 18 ft. weir with 3 ft. weir height ID 7.1 (See Earthen Dam with Skimmer Detail)

82 x 40 x 3 2 inch Skimmer with 1.625 inch Orifice Diameter 12 ft. weir ID 7.2

116 x 25 x 3 1.5 inch Skimmer with 1.5 inch Orifice Diameter 11 ft. weir ID 7.3

NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) WHERE APPLICABLE

50+00 55+00 60+00

ASHLEY PARHAM DB 2863 PG 698 PC-H PG 151-E

TIMOTHY NORRIS DB 2893 PG 868 PC-H PG151-E

DANIEL RAPP DB 2856 PG 262 PC-H PG 151-E

PATRICK BOYHAN, et ux DB 3574 PG 64

CHERYL OSBOURNE DB 3579 PG 971 PC-H PG 181-B

LANGDON PAUL WALPER II, et ux DB 3505 PG 0920 PC-H PG 181-B

TAD & ANDREA MCCONNELL DB 3001 PG 373 PC-H PG 181-B

BELART & SANDRA LAROCHELLE DB 3020 PG 368 PC-H PG 181-B

LEENDERT & ANN HAANSKORF DB 2491 PG 739 PC-H PG 16-A

TREVOR A. DUNNRILL, et al DB 3504 PG 682 PC-H PG 16-A

DEBORAH R. CARTER DB 3499 PG 406 PC-H PG 16-A

PATRICIA L. DRAUT DB 2422 PG 518 PC-H PG 16-A

CHARLES & LORRAINE BAUER DB 2422 PG 628 PC-H PG 16-A

LLOYD G. SHIVERS, et ux DB 3372 PG 620 PC-H PG 16-A

GARY & DENA BARBARO DB 2433 PG 284 PC-H PG 16-A

SHIRLEY ANTHEY, et al DB 3497 PG 1525 PC-H PG 16-A

NEUSE BUILDERS OF NEW BERN INC. DB 2438 PG 811 PC-H PG 16-A

BRDL CRAEBER DB 376

MCCULLOUGH FARMS LLC DB 3533 PG 1203

TC & I TIMBER COMPANY, LLC DB 2525 PG 1

BPNC LLC DB 3500 PG 1203 "PARCEL 5" PC-H PG 32-F

LATERAL 6' BASE DITCH SEE SHEET '2D-1' DETAIL 'D' 470 CY DDE

LATERAL 6' BASE DITCH SEE SHEET '2D-1' DETAIL 'R' 1260 CY DDE

CLASS 'B' RIP RAP EST. 3 TONS 10 SY GEO-TEXTILE

CLASS 'I' RIP RAP EST. 85 TONS 100 SY GEO-TEXTILE

SPECIAL CUT DITCH SEE SHEET '2D-1' DETAIL 'C'

SEWER LINES OUTSIDE OF SURVEY LIMITS DRAWN FOR LOCATION ONLY

18" RCP-III

36" RCP-III

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REVISIONS

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N.C.B.E.L.S. License Number: F-0116

PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-20/CONST. 8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

13A
BRDL CRAEBERNE FOREST, LLC
DB 3786 PG 1316

65+00 70+00 75+00

MATCHLINE –L– STA. 61+00, SEE SHEET 7

MATCHLINE –L– STA. 75+00, SEE SHEET 9

CLASS 'B' RIP RAP
EST. 3 TONS
10 SY GEO-TEXTILE

LATERAL 6 BASE DITCH
SEE SHEET '2D-1'
DETAIL 'R'
2470 CY DDE

13
MCCUILLOUGH FARMS, LLC

N 22° 55' 48.4" W

–L– NC 87 CONNECTOR

S 21°55'53" E
826.88'

N 21°55'53" W
2693.22'

PDE PDE PDE

36"

SPECIAL CUT DITCH
SEE SHEET '2D-1'
DETAIL 'C'

REMOVE "B" HOME

SPECIAL CUT DITCH
SEE SHEET '2D-1'
DETAIL 'C'

CLASS 'B' RIP RAP
EST. 3 TONS
10 SY GEO-TEXTILE

SPECIAL CUT DITCH
SEE SHEET '2D-1'
DETAIL 'C'

–L– PC Sta. 65+96.71

–L– PRC Sta. 74+18.71

15
BPNC LLC
DB 3533 PG 1203
"PARCEL 5"
PC-H PG 32-F

125 x 25 x 3
1.5 inch Skimmer
with 1.5 inch
Orifice Diameter
12 ft. weir
ID 8.1

NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR
SPECIAL STILLING BASIN(S) WHERE APPLICABLE

Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 63+00 to Sta. 63+50 –L– Rt
Sta. 71+00 to Sta. 71+50 –L– Lt
Sta. 72+50 to Sta. 79+00 –L– Lt
Sta. 68+50 to Sta. 80+50 –L– Rt

REVISIONS

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HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	PROJECT REFERENCE NO.	SHEET NO.
	R-4463A	EC-21/CONST. 9
	R/W SHEET NO.	
	ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

116 x 25 x 3
1.5 inch Skimmer
with 1.5 inch
Orifice Diameter
11 ft. weir
ID 9.1

110 x 25 x 3
1.5 inch Skimmer
with 1.5 inch
Orifice Diameter
10 ft. weir
ID 9.3

NAD 83/NA 2011

MATCHLINE –L– STA. 75+00, SEE SHEET 8

MATCHLINE –L– STA. 89+00, SEE SHEET 10

13A
BRDL CRAEBERNE FOREST, LLC
DB 3786 PG 1316

15
BPNC LLC
DB 3533 PG 1303
"PARCEL 4"
PC-H PG 32-F

75+00

80+00

85+00

–L– PT Sta. 80+69.32

STANDARD HEAD DITCH
W/CLASS 'B' RIP RAP
EST 25 TONS
55 SY GEO-TEXTILE
SEE DETAIL 'Q'
LENGTH=30 FT
SLOPE= 2.93
EST 7 CY DDE

S 21°30'26" E
646.67'
R=19880'
Δ=646.70'

S 22°26'21" E
30.26'

SPECIAL CUT DITCH
SEE SHEET '2D-1'
DETAIL 'C'

13
MCCULLOUGH FARMS LLC
DB 3533 PG 1203

54" RCP-IV

15" RCP-III

18" RCP-III

0901 0902 0903 0904 0905 0906 0907 0908 0909 0910 0911 0912

HW

B

FS

N 22° 26' 20.6" W

–L– NC 43 CONNECTOR

CLASS 'B' RIP RAP
EST. 3 TONS
10 SY GEO-TEXTILE

SPECIAL CUT DITCH
SEE SHEET '2D-1'
DETAIL 'C'

BASE TAIL DITCH
W/CLASS 'I' RIP RAP
EST 50 TONS
68 SY GEO-TEXTILE
SEE DETAIL 'N'
LENGTH=30 FT
SLOPE=0.57%
EST 7 CY DDE

TAIL DITCH
SEE DETAIL 'S'
LENGTH=28 FT
SLOPE=5.36%
EST 3 CY DDE

CLASS 'I' RIP RAP
EST. 30 TONS
40 SY GEO-TEXTILE

N 21°55'53" W
627.36'

102 x 25 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
10 ft. weir
ID 9.2

102 x 25 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
10 ft. weir
ID 9.4

NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR
SPECIAL STILLING BASIN(S) WHERE APPLICABLE

PROPOSED LINE – EXISTING R/W

REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-22/CONST. 10
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

115 x 25 x 3
1.5 inch Skimmer
with 1.5 inch
Orifice Diameter
11 ft. weir
ID 10.1

102 x 25 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
10 ft. weir
ID 10.2

NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR
SPECIAL STILLING BASIN(S) WHERE APPLICABLE

Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 92+50 to Sta. 93+00 –L– Rt
Sta. 93+00 to Sta. 93+50 –L– Lt
Sta. 99+50 to Sta. 101+00 –L– Lt

MATCHLINE –L– STA. 89+00, SEE SHEET 9

MATCHLINE –L– STA. 102+00, SEE SHEET 11

–L– NC 43 CONNECTOR

–L– TS Sta. 92+01.32

–L– SC Sta. 94+01.32

N 22° 26' 20.6" W

BPNC LLC
DB. 3533 PG 1303
"PARCEL 4"
PC-H PG 32-F

WEYERHAEUSER REAL ESTATE
DEVELOPMENT COMPANY
MB 2894 PG 246

REVISIONS

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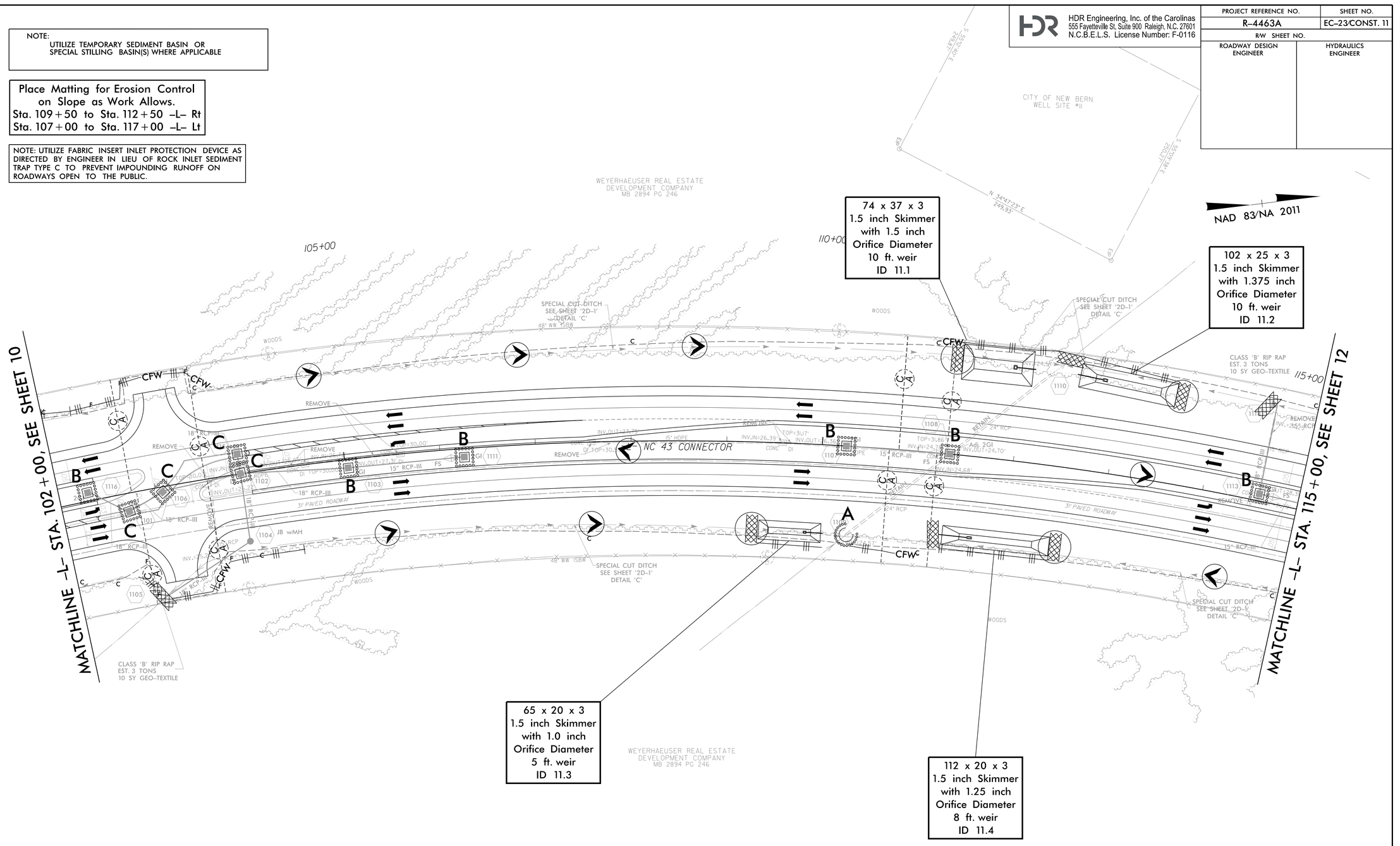
PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-23/CONST. 11
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) WHERE APPLICABLE

Place Matting for Erosion Control on Slope as Work Allows.
Sta. 109+50 to Sta. 112+50 –L– Rt
Sta. 107+00 to Sta. 117+00 –L– Lt

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED BY ENGINEER IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.



REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-24/CONST. 12
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

35' ENCNG/APEC EASEMENT
50' CITY OF NEW BERN UTILITY EASEMENT
520' CP&L EASEMENT
CATHODIC PROTEC

MATCHLINE -L- STA. 115+00, SEE SHEET 11

MATCHLINE -L- STA. 128+00, SEE SHEET 13

115+00 120+00 125+00

WEYERHAEUSER REAL ESTATE
DEVELOPMENT COMPANY
MB 2894 PG 246

CLASS 'B' RIP RAP
EST. 3 TONS
10 SY GEO-TEXTILE

SPECIAL CUT DITCH
SEE SHEET '2D-1'
DETAIL 'C'

1201 1202 1203 1204 1205 1206 Adj. MH 1207 COLLAR AND EXTEND 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217 1218

Conv. DI to JB w/MH

15" RCP-III
18" RCP-III
30" RCP
36" RCP
15" RCP

REMOVE
RETAIN
CFW
VARIABLE PAVED ROADWAY
4' CONC WW
48" WW ISBW

-L- NC 43 CONNECTOR
N 34° 45' 40.0" E

-L- CS Sta. 121+96.22
-L- ST Sta. 123+96.22

WOODS

REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-25/CONST. 13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Place Matting for Erosion Control on Slope as Work Allows.
Sta. 127+00 to Sta. 127+50 –L– Rt
Sta. 127+50 to Sta. 128+50 –L– Lt

NAD 83/NA 2011

MATCHLINE –L– STA. 128+00, SEE SHEET 12

130+00 135+00 140+00

WEYERHAEUSER REAL ESTATE DEVELOPMENT COMPANY MB 2894 PG 246

CATHODIC PROTECTION VAULT TEST STATION

WOODS CFW

RETAIN TOP=38.00 INV=35.37 B

RETAIN TOP=53.33 DI

NC 43 EXTENSION PAVEMENT VARIES

CONC BRIDGE DECK

–L– POT Sta. 140+00.00

RETAIN N 34°45' 34.0" E –L– NC 43 CONNECTOR B

INV=34.93 (IN) INV=34.83 (OUT)

DI TOP=49.60 RETAIN

INV=38.88

END GRADE
BEGIN 2" MILL/FILL
–L– POT Sta. 130+20.00

END TIP PROJECT R-4463A
END 2" MILL/FILL
–L– POT Sta. 136+14.30

FOR RIGHT OF WAY ALONG US70 AND THE RAMPS PLEASE REFER TO PROJECT 3560JJ (R-4463B)

REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
R–4463A	EC–25A/CONST.13A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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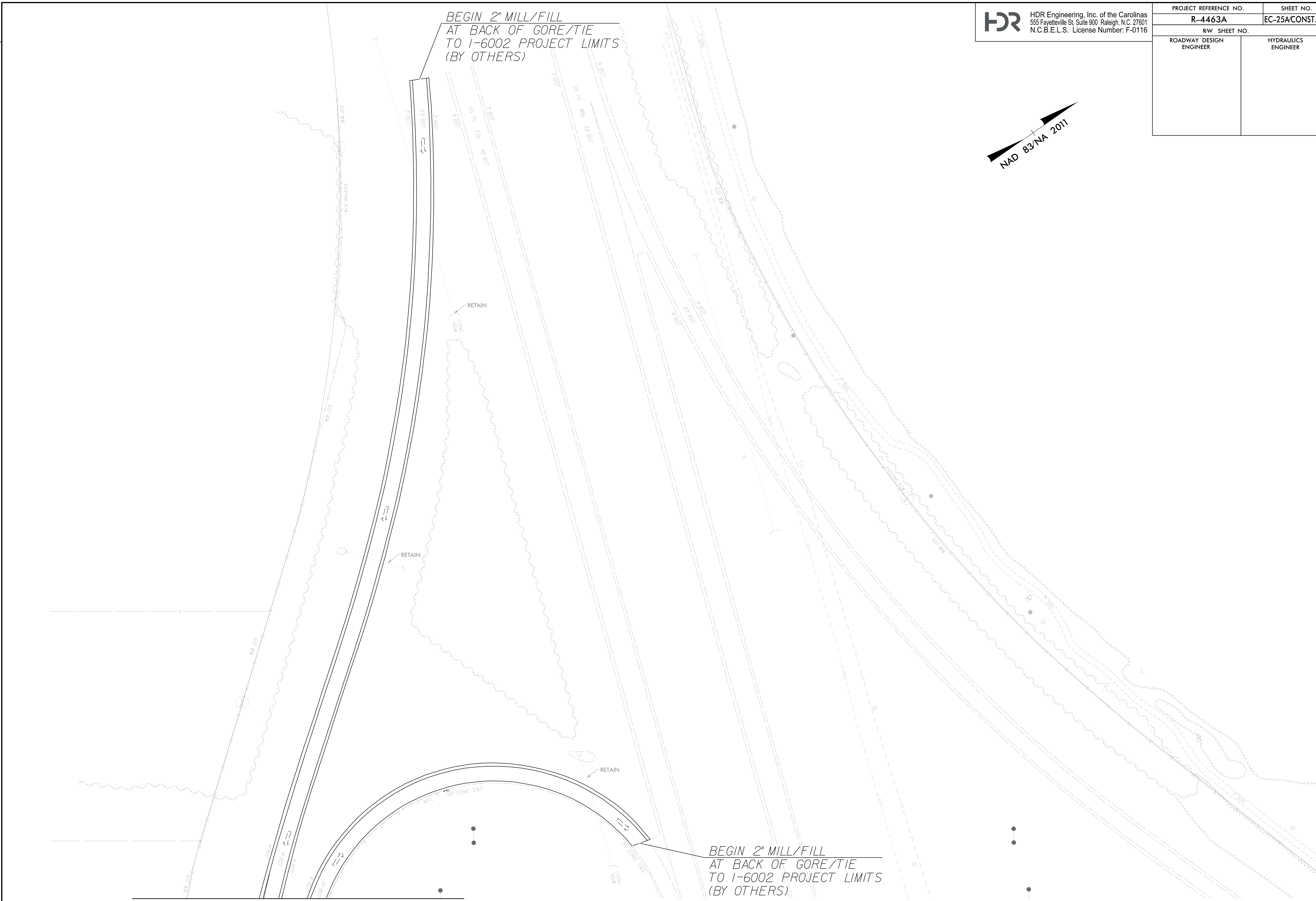
N.C.B.E.L.S. License Number: F-0116



MATCHLINE RESURFACING, SEE SHEET 13

REVISIONS

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HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	PROJECT REFERENCE NO.	SHEET NO.
	R-4463A	EC-26/CONST. 14
	R/W SHEET NO.	
	ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED BY ENGINEER IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.

NAD 83/NA 2011

-Y1- POT Sta. 10+00.00

END 2" MILL/FILL
BEGIN GRADE
-Y- POT Sta. 14+40.00

1.5 inch Skimmer with 1.25 inch Orifice Diameter 14 ft. weir with 3.0 ft. weir height ID 14.1 (See Earthen Dam with Skimmer Detail)

END CONSTRUCTION
-Y1- POT Sta. 12+75.00

-Y1- POT Sta. 14+96.96

-Y1- PT Sta. 12+48.18

-Y1- POT Sta. 10+00.00 = -Y- POC Sta. 21+50.00

-Y1- PC Sta. 10+80.05

-Y- TS Sta. 18+54.04

-Y- SC Sta. 20+54.04

BEGIN CONSTRUCTION
BEGIN 2" MILL/FILL
TIE TO EXISTING MARKINGS
-Y- STA. 10+90 +/-

STA. MATCHLINE -Y- 24+50, SEE SHEET 4

-Y1- ROCKY RUN RD

-Y- US 17 BUS.

N 61° 28' 05.0" E

N 24° 35' 33.6" W

CONSTANCE E. SIMMONS DB 3583 PG 1978

MICHAEL ALLEN GERLACH, ET UX DB 2686 PG 222

SANDRA W. GRAY DB 3007 PG 94

CONSTANCE W. SWINDELL 85-E-59

ROBERT E. SWINDELL, ET UX DB 865 PG 726

W.R. NEWELL, ET UX DB 393 PG 8

HARRY S. COTTON REVOCABLE LIVING TRUST DB 1940 PG 988

ROBERT GAINS, ET AL DB 332 PG 58

DUKE JONES, ET UX DB 1220 PG 714

WILLIAM S. JONES ,et ux DB 765 PG 55

HARRY S. COTTON ,et ux DB 801 PG 318

JP & MABLE LLC DB 2228 PG 1024

JOSEPH M. FOY, et UX DB 658 PG 329

JOSEPH M. FOY, et UX DB 838 PG 895

GARY GARERA DB 3585 PG 1450

COREY MITCHELL THOMAS DB 3579 PG 1619

EUREKA FAMILY LIMITED PARTNERSHIP DB 3294 PG 497

EUREKA FAMILY LIMITED PARTNERSHIP DB 2869 PG 698

MICHAEL G. RAINES DB 3440 PG 806

AMOS WEST ETAL DB 1466 PG 56

FREDDIE WEST DB 1103 PG 681

EDNA B. HENDERSON DB 1588 PG 687

FREDDIE WEST DB 3303 PG 367

MCCOTTER LAND COMPANY LLC-JE DB 3422 PG 598

TABERNACLE BAPTIST CHURCH NDR

ISBLD TABERNACLE BAPTIST CHURCH

17 18 19 20 21 23 24 25

REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-27/CONST. 15
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

MATCHLINE –Y– STA. 33+70, SEE SHEET 4

MATCHLINE –Y– STA. 48+00, SEE SHEET 15A

1.5 inch Skimmer with 1.375 inch Orifice Diameter 7 ft. weir with 4 ft. weir height ID 15.2 (See Earthen Dam with Skimmer Detail)

1.5 inch Skimmer with 1.25 inch Orifice Diameter 11 ft. weir with 2.5 ft. weir height ID 15.3 (See Earthen Dam with Skimmer Detail)

68 x 25 x 3 1.5 inch Skimmer with 1.25 inch Orifice Diameter 7 ft. weir ID 15.5

1.5 inch Skimmer with 1 inch Orifice Diameter 20 ft. weir with 2.5 ft. weir height ID 15.1 (See Earthen Dam with Skimmer Detail)

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICE AS DIRECTED BY ENGINEER IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C TO PREVENT IMPOUNDING RUNOFF ON ROADWAYS OPEN TO THE PUBLIC.

NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) WHERE APPLICABLE

Place Matting for Erosion Control on Slope as Work Allows.
Sta. 35+00 to Sta. 46+00 –L– Lt
Sta. 35+00 to Sta. 46+00 –L– Rt

CHANNEL IMPROVEMENT (TIE STREAM TO 6' BASE SPECIAL CUT DITCH) @ EST 8 CY DDE SEE SHEET '2D-1' DETAIL 'I'

6' BASE SPECIAL CUT DITCH SEE SHEET '2D-1' DETAIL 'G'

RETAIN AND EXTEND 5' X 4' RCBC APPROX. 40 LF INLET APPROX. 11 LF OUTLET

DITCH BLOCK SEE SHEET '2D-1' DETAIL 'U' CLASS 'I' RIP RAP EST. 25 TONS 26 SY GEOTEXTILE #57 STONE EST. 2 TONS

6' BASE SPECIAL CUT DITCH SEE SHEET '2D-1' DETAIL 'H'

CULVERT INLET AND OUTLET BANK STABILIZATION SEE SHEET 2D-1 DETAIL Z

2' BASE TAIL DITCH SEE DETAIL 'V' LENGTH = 20 FT SLOPE = 0.15% EST 3 CY DDE

5 TONS CL I RIP RAP 12 SY GEOTEXTILE

CLASS 'I' RIP RAP EST. 25 TONS 35 SY GEO-TEXTILE EST 10 CY DDE

2' BASE SPECIAL CUT DITCH SEE SHEET '2D-1' DETAIL 'B'

4' BASE SPECIAL CUT DITCH SEE SHEET '2D-1' DETAIL 'F'

CLASS 'B' RIP RAP EST. 3 TONS 5 SY GEO-TEXTILE

LATERAL 4' BASE DITCH EST 10 CY DDE SEE SHEET '2D-1' DETAIL 'M'

CLASS 'I' RIP RAP EST. 35 TONS 45 SY GEO-TEXTILE

TOE PROTECTION SEE SHEET '2D-1' DETAIL 'X' CLASS 'B' RIP RAP EST. 54 TONS 120 SY GEOTEXTILE

RIP RAP AT EMBANKMENT EST 3 TONS CLASS I RIP RAP 9 SY GEOTEXTILE SEE DETAIL 'AA'

CLASS 'B' RIP RAP EST. 3 TONS 10 SY GEO-TEXTILE

CULVERT INV ELEV. = 14.9'
STREAM BED ELEV. = 15.9'

CULVERT INV ELEV. = 14.5'
STREAM BED ELEV. = 15.5'

2@9'x6' RCBC w/ WINGWALLS (BURIED 1')
2' SILL IN EASTERN BARREL
1' SILL IN WESTERN BARREL

–Y– +89.00 150.00' LT & 140.00' LT

–Y– +99.00 150.00' LT & 140.00' LT

–Y– +00.00 115.00' LT

–Y– +77.00 113.00' RT

–Y– +91.00 112.00' RT & 90.00' RT

–Y– +40.00 112.00' RT & 89.00' RT

–Y– +40.00 89.00' RT & EX. R/W

–Y– +25.00 105.00' RT & 88.00' RT & EX. R/W

35+00

40+00

45+00

N 84°57'52.2" E

–Y– US 17 BUS.

END GRADE
BEGIN 3" OVERLAY
–Y– POT Sta. 46+40.00

MICHAEL RAINES ETAL
DB 3255 PG 378
PC-G PG 61-H

BLUE GRASS RENTALS
DB 3499 PG 1376

WILLIAM F. WARD TRUST
DB 3255 PG 384

CRAIG QUALLS, et ux
DB 3675 PG 587
PC D SLIDE 564

S H & M REAL ESTATE INVESTMENTS, LLC
DB 3671 PG 650

FAITH UNITED METHODIST CHURCH
DB 1175 PG 103

HOLMES
DB 19
PC-F

ISMTL BUS

PAVED SHOULDER

SEE SHEET 2B-2 FOR –DET EB– & –DET WB– PLAN
SEE SHEETS 22 & 23 FOR –Y– PROFILE
SEE SHEETS C1-1 THRU C1-6 & C2-1 THRU C2-6 FOR CULVERT PLANS

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FILE: ...\PSH\R4463A_EC_PSH-27_Final.dgn

7/22022: PARCELS 3A & 27A CREATED FOR NEW OWNERS AND PARCEL BOUNDARIES

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PROJECT REFERENCE NO.	SHEET NO.
R-4463A	EC-27A/CONST. 15A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	

NAD 83/NA 2011

MATCHLINE -Y- STA. 48+00, SEE SHEET 15

N 65°50'32" E
142.51'

END 3" OVERLAY
BEGIN 2" MILL/FILL
-Y- POT Sta. 48+25.00

JEAN E. WACHTER
DB 2759 PG 432

S 24°56'45" E
303.25'

-Y- POT Sta. 50+30.37

PA

PARKING AREA
WILSON, JR.
37 PG 018
PG 198-H

PARKING AREA

24' C&G

PARKING AREA

PARKING AREA

END CONSTRUCTION
END 2" MILL/FILL
TIE TO EXISTING MARKINGS
1310' EAST OF STA. 48+25.00

36' BST

EIP

EIP

30' BST

30' BST

26' BST

25' GR

-Y- US 17 BUS. 50+00

N 84° 57' 52.2" E

ING RW

14' GR

PARKING AREA

14' BST

11' GR

PARKING AREA

9' BST

55' GR

PAVED SHOULDER

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TIME: 2:16:58 PM

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