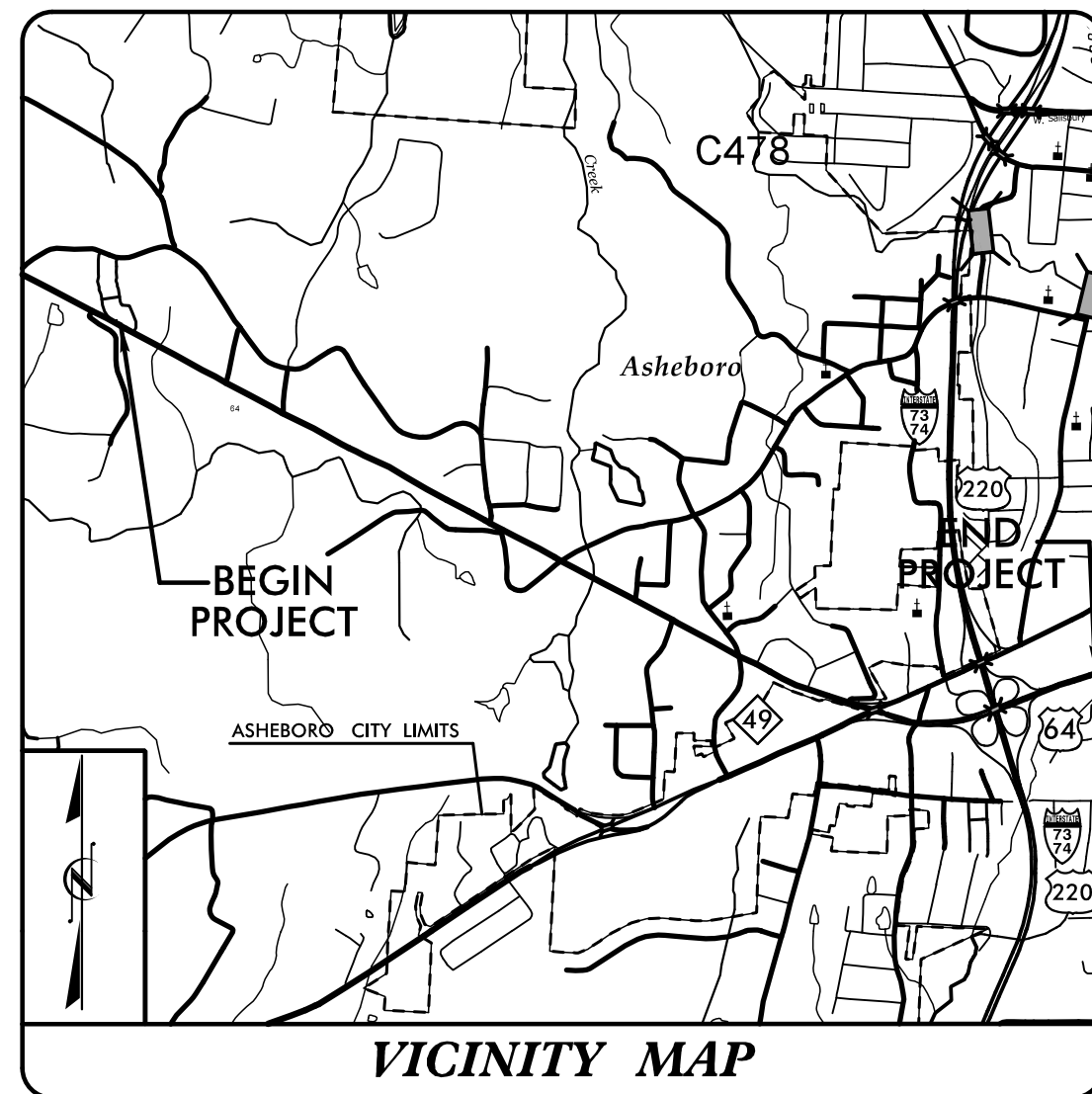


**TIP PROJECT: U-5813**



STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

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PLAN FOR PROPOSED  
HIGHWAY EROSION CONTROL

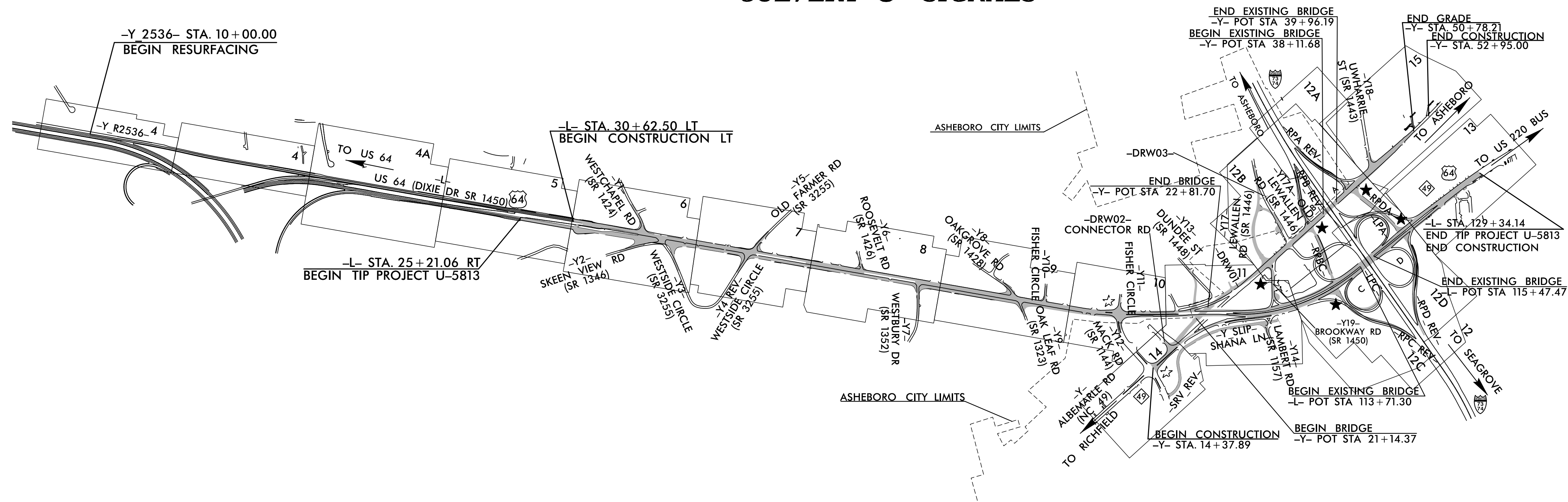
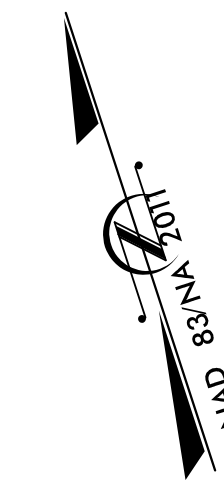
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# RANDOLPH COUNTY

**LOCATION: ASHEBORO BYPASS TO EAST OF I-73 /I-74 /US 220 IN ASHEBORO. WIDEN TO MULTILANES, RECONSTRUCT INTERCHANGE AT NC 49, MODIFY INTERCHANGE AT I-73 / I-74 /US 220 AND REPLACE BRIDGE 750171 OVER US 64 AND NC 49.**

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

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5813	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

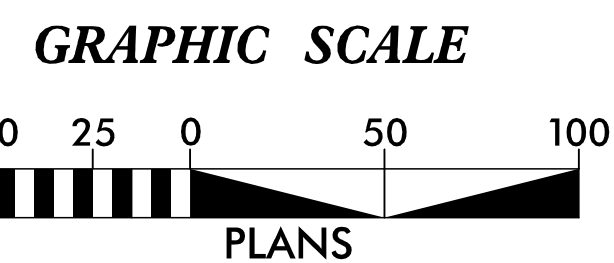


THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

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

ENVIRONMENTALLY SENSITIVE AREA(S) EXIST ON THIS PROJECT  
*Refer To E. C. Special Provisions for Special Considerations.*

HIGH QUALITY WATER(S) EXIST ON THIS PROJECT  
*High Quality Water Zone(s) Exist From Sta. \_\_\_\_\_ Beginning to Sta. \_\_\_\_\_ End Refer To E. C. Special Provisions for Special Considerations.*



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.

# HNTB

PREPARED IN THE OFFICE OF:  
**HNTB**  
HNTB NORTH CAROLINA, P.C.  
343 E. Six Forks Road, Suite 200  
Raleigh, North Carolina 27609  
NC License No: C-1554  
FOR NCDOT

Designed by:  
**NATALIE CHAN, P.E.** **3444**  
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 revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

# DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

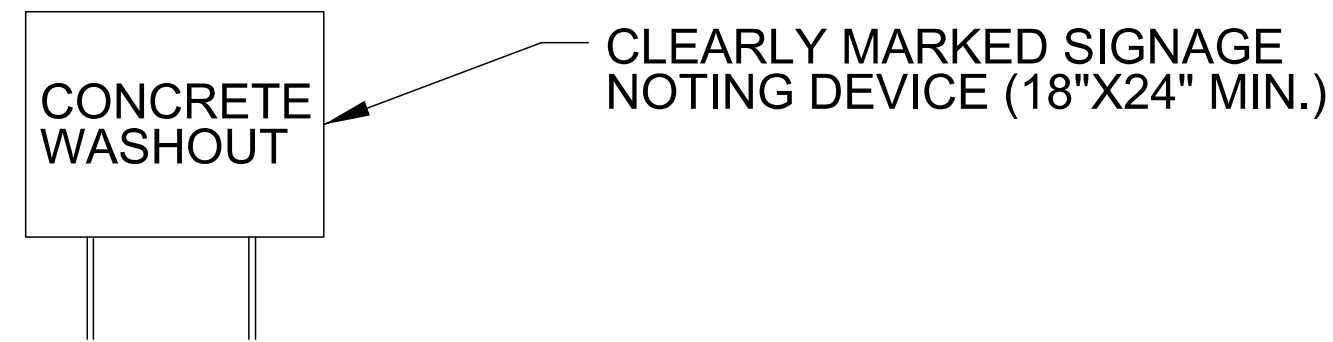
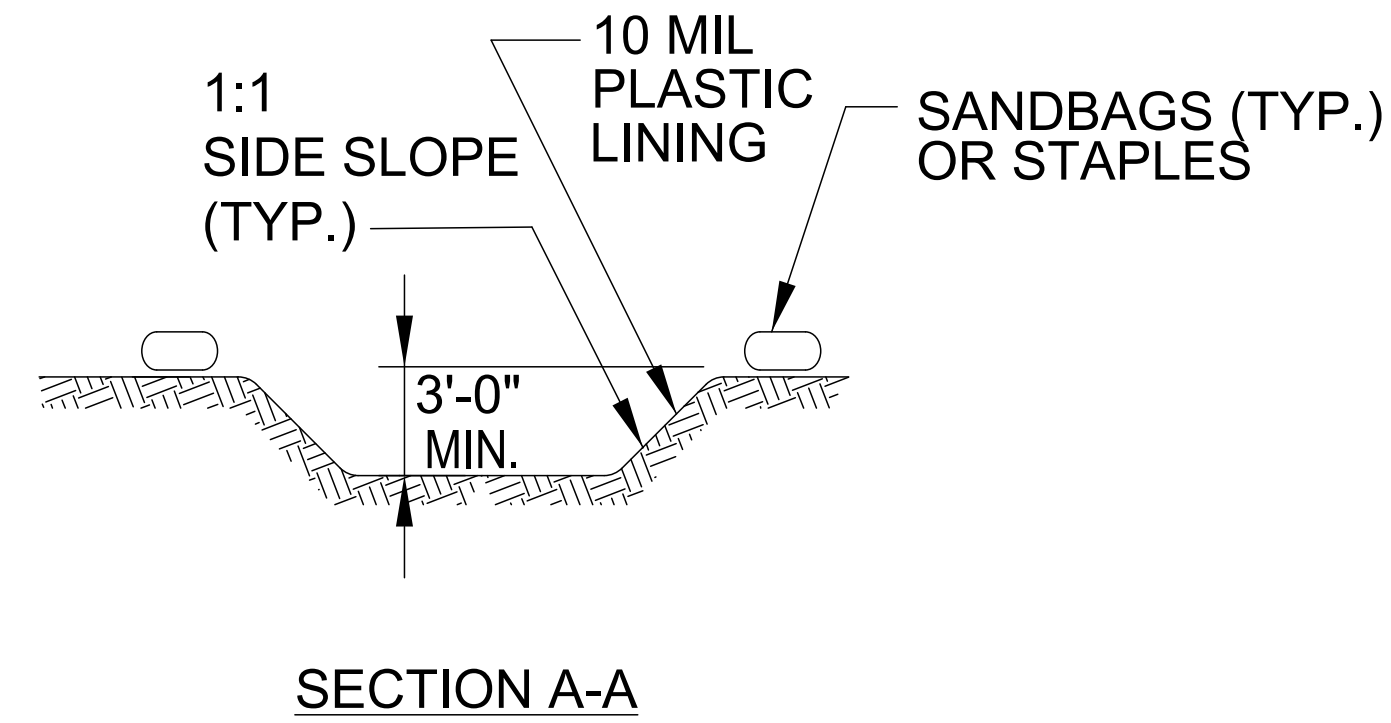
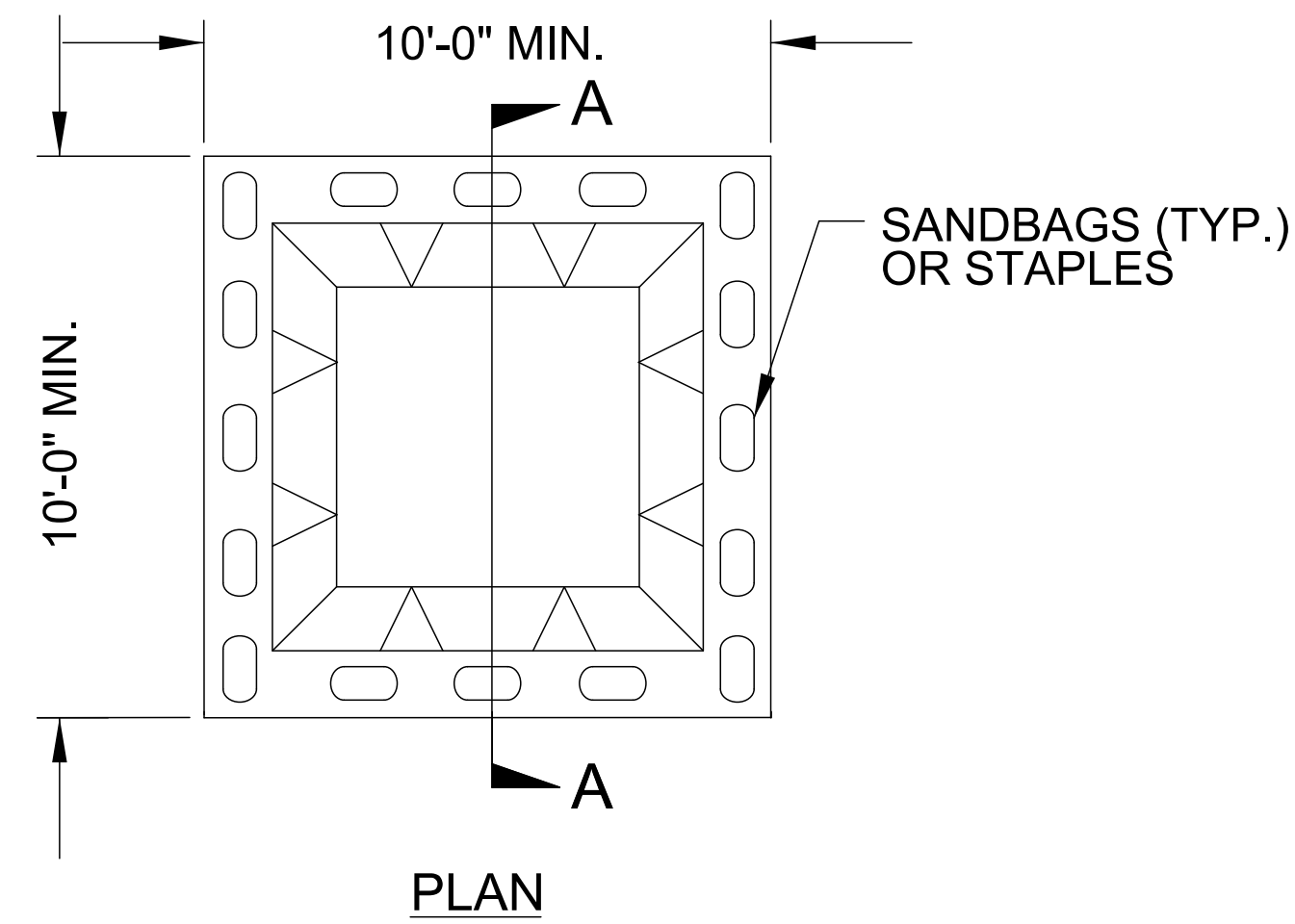
PROJECT REFERENCE NO. <b>U-5813</b>	SHEET NO. <b>EC-02</b>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

## EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol	Std. #	Description	Symbol
1605.01	Temporary Silt Fence		1633.01	Temporary Rock Silt Check Type A	
1606.01	Special Sediment Control Fence		1633.02	Temporary Rock Silt Check Type B	
1622.01	Temporary Berms and Slope Drains		1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1630.02	Silt Basin Type B		1634.01	Temporary Rock Sediment Dam Type A	
1630.03	Temporary Silt Ditch		1634.02	Temporary Rock Sediment Dam Type B	
1630.04	Stilling Basin		1635.01	Rock Pipe Inlet Sediment Trap Type A	
1630.05	Temporary Diversion		1635.02	Rock Pipe Inlet Sediment Trap Type B	
1630.06	Special Stilling Basin		1636.01	Excelsior Wattle Check	
1630.07	Skimmer Basin		1636.01	Excelsior Wattle Check with Flocculant	
1630.08	Tiered Skimmer Basin		1636.01	Coir Fiber Wattle Check	
1630.09	Earthen Dam with Skimmer		1636.01	Coir Fiber Wattle Check with Flocculant	
	Infiltration Basin		1636.02	Silt Fence Excelsior Wattle Break	
	Rock Inlet Sediment Trap:			Silt Fence Coir Fiber Wattle Break	
1632.01	Type A		1636.03	Excelsior Wattle Barrier	
1632.02	Type B		1636.03	Coir Fiber Wattle Barrier	
1632.03	Type C				

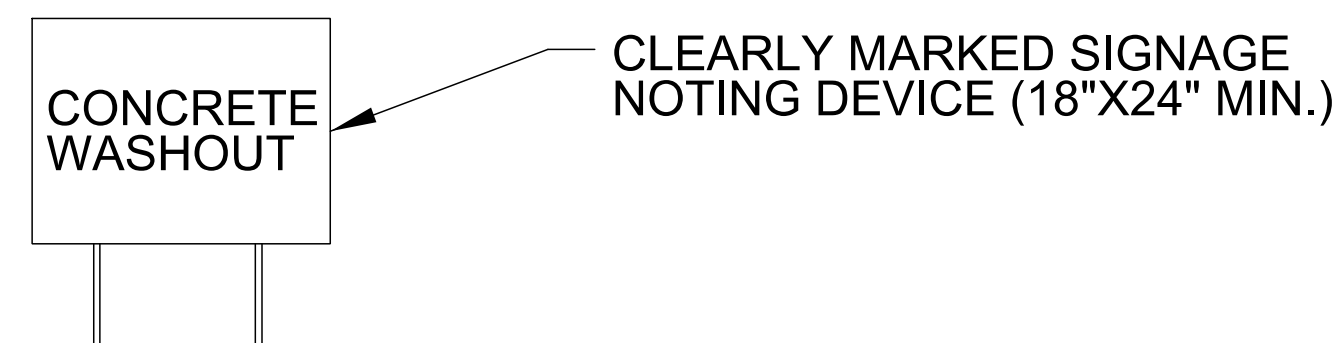
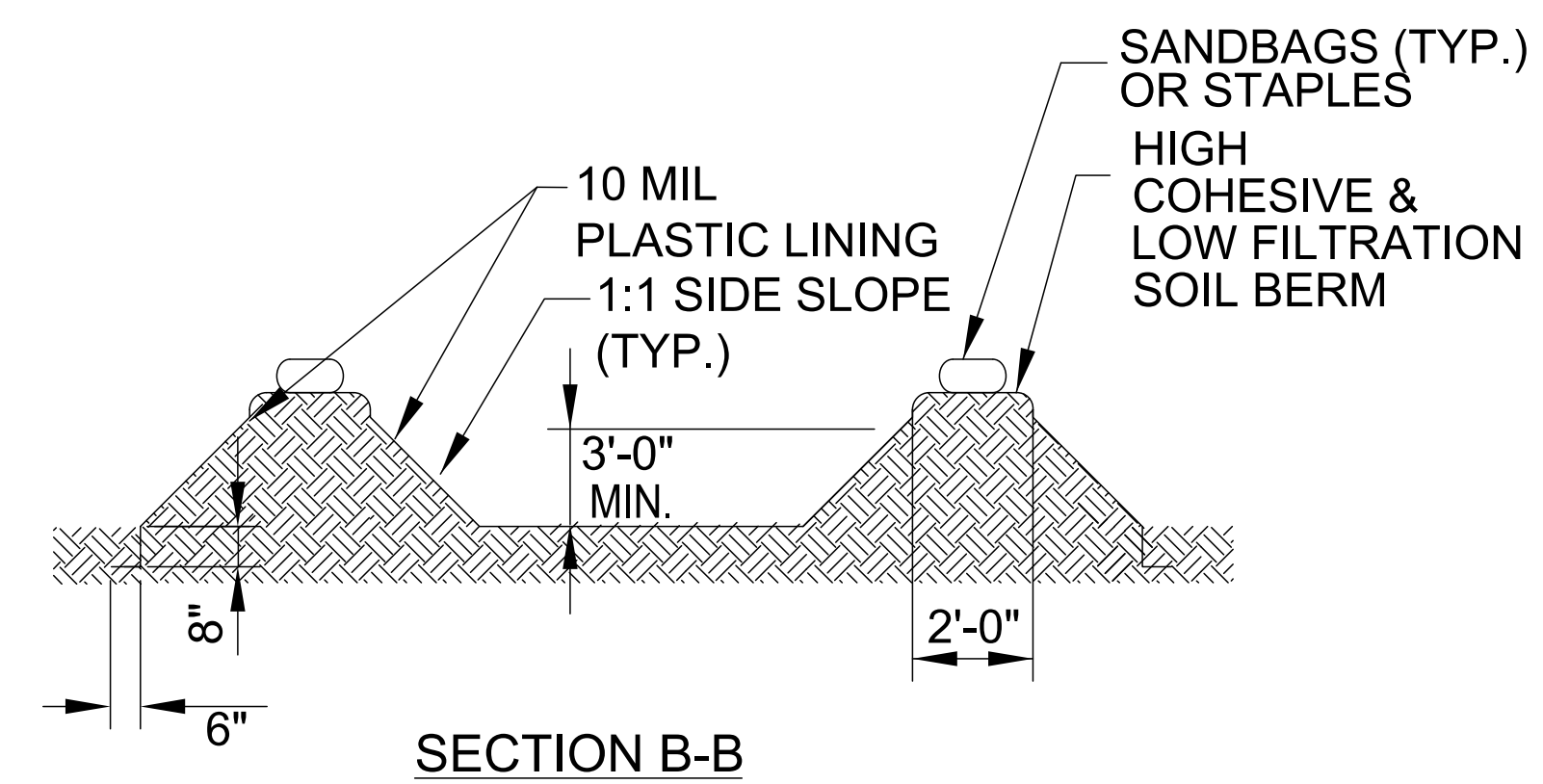
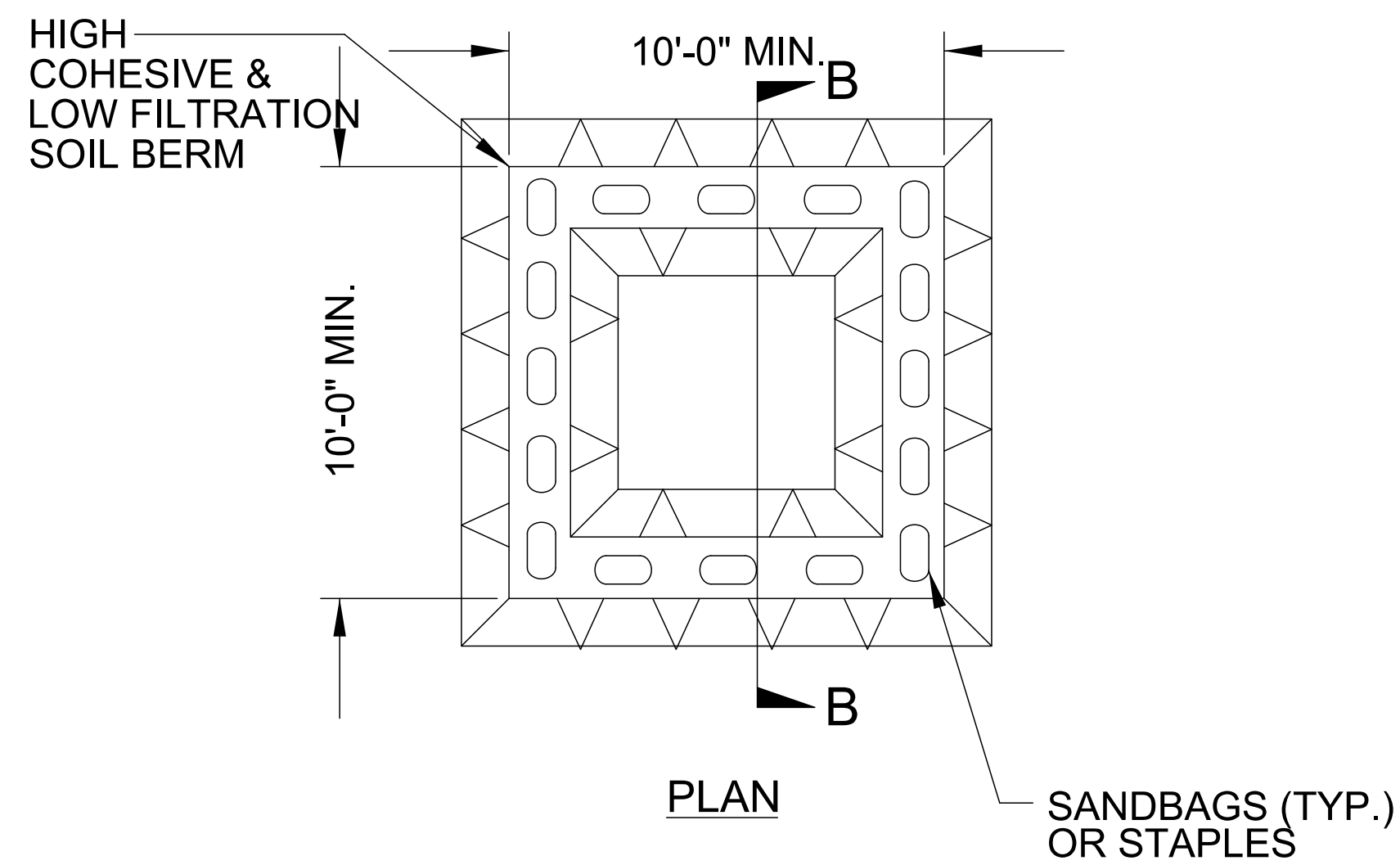
PROJECT REFERENCE NO. <i>U-5813</i>	SHEET NO. <i>EC-2A</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



**BELOW GRADE WASHOUT STRUCTURE**  
NOT TO SCALE

- 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 CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.



**ABOVE GRADE WASHOUT STRUCTURE**  
NOT TO SCALE

- 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 CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>U-5813</i>	SHEET NO. <i>EC-3</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**SOIL STABILIZATION SUMMARY SHEET**

**MATTING FOR EROSION CONTROL**

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)	CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
6	L	3450	3650	RT	250	12	RPA	1625	1700	LT	50
6	L	4250	4350	RT	125	12	RPDA	1125	1550	RT	425
6	L	3200	3700	MED	740	12	RPDA	1075	1175	LT	90
6	L	3300	3600	LT	375	12	RPDA	1300	1325	LT	25
6	Y3	1000	1175	RT	115	12	RPDA	1375	1550	LT	155
7	L	4350	4650	RT	375	13	L	12150	12300	LT	120
7	L	5050	5250	RT	225	14	SRV*REV	1500	1550	LT	110
7	L	4350	4750	LT	495	15	Y	4950	5050	RT	80
7	L	5100	5200	LT	150						
8	Y6	1100	1125	LT	20						
8	Y7	1000	1100	RT	55						
9	L	7550	7650	RT	115						
9	Y8	1050	1300	RT	140						
10	L	8250	8450	RT	155						
10	L	9200	9400	LT	210						
11	L	10100	10300	LT	155						
11	SRV*REV	1700	2350	RT	505						
11	SRV*REV	1600	2050	LT	790						
11	Y	2650	2950	LT	265						
12	L	10600	10950	LT	315						
12	Y	3350	3500	LT	120						
12	Y17	1125	1525	RT	400						
12	Y17	1100	1675	LT	575						
12	RPD	1350	1650	LT	400						
12	RPBC	1425	1550	RT	125						
12	RPBC	1475	1550	LT	75						
12	LPC	1250	1275	LT	40						
12	LPA	1300	1625	LT	255						
12	LPA	1725	1800	LT	115						
12	RPA	1525	1775	RT	2615						
										SUBTOTAL	11350



DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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PROJECT REFERENCE NO. <i>U-5813</i>	SHEET NO. <i>EC-3B</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# ***SOIL STABILIZATION TIMEFRAMES***

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

PROJECT REFERENCE NO.	SHEET NO.
U-5813	EC-4/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

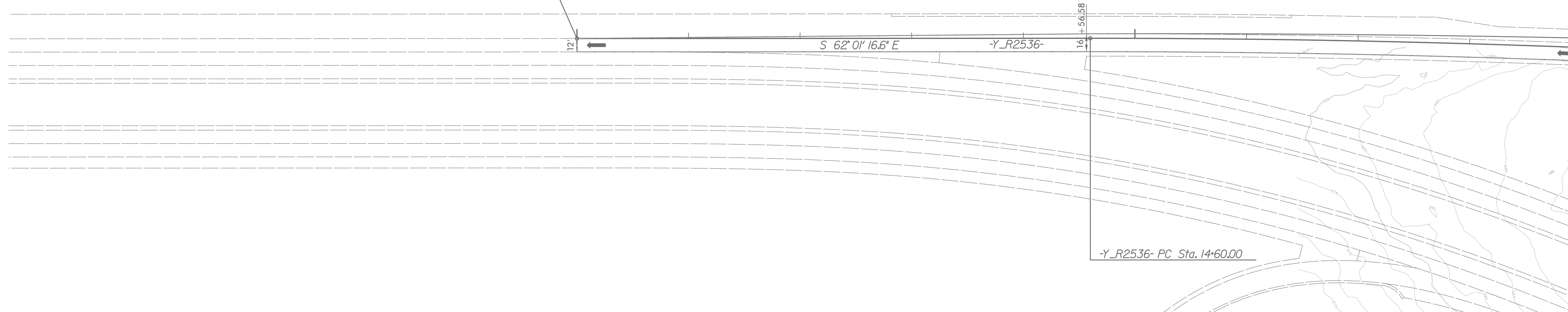
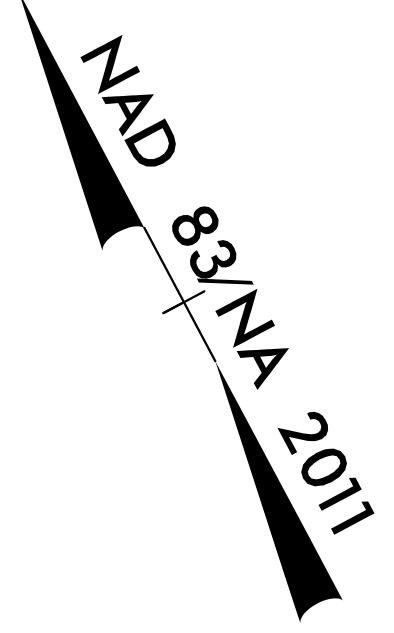
CLEARING AND GRUBBING  
 EROSION CONTROL FOR  
 CONSTRUCTION SHEET 4

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

NOTE:  
 CONSTRUCTION OF U-5813  
 BEGINS AT -L- STA. 25+21.06

BEGIN RESURFACING  
 -Y\_R2536- POT. Sta. 10+00.00

-Y\_R2536- 15



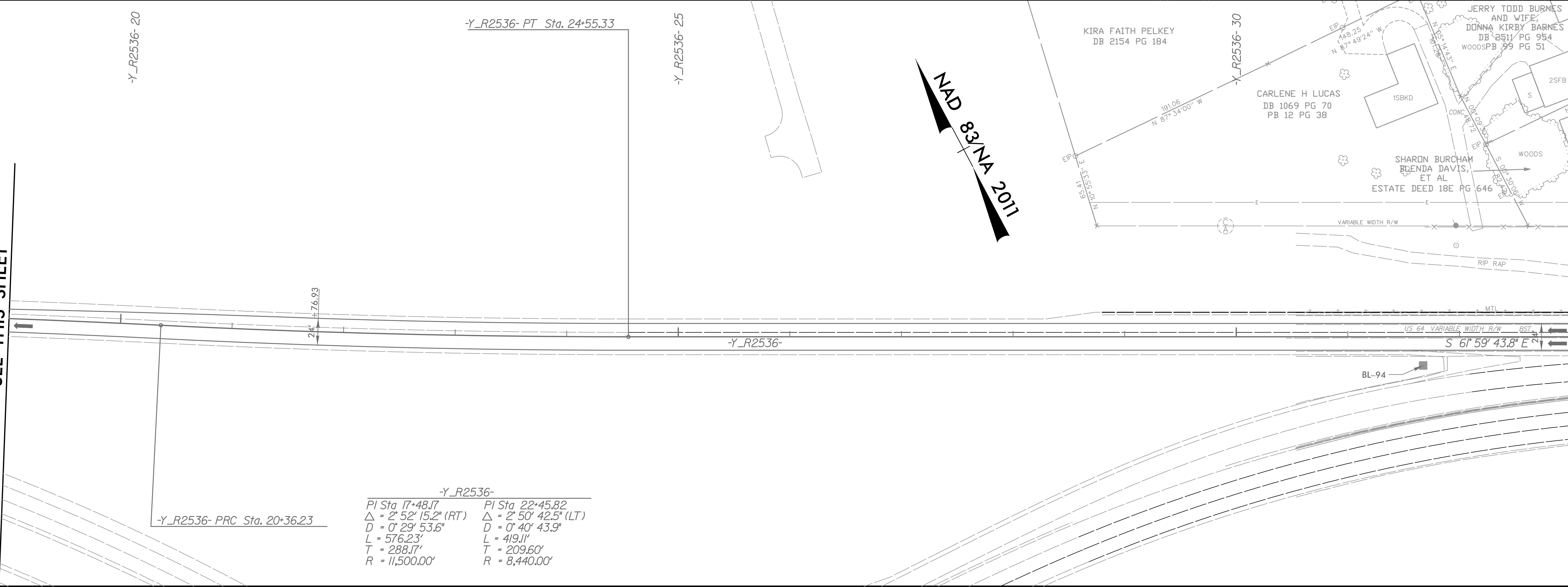
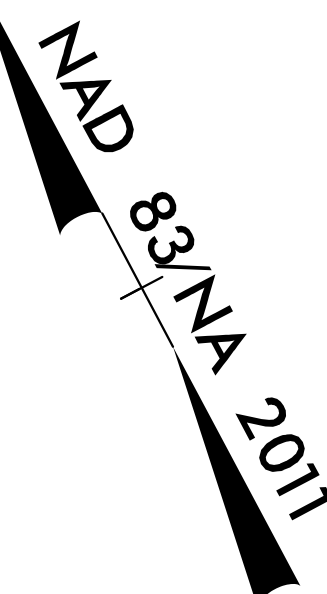
MATCH LINE -Y R2536- 19+00  
 SEE THIS SHEET

MATCH LINE -Y R2536- 19+00  
 SEE THIS SHEET

-Y\_R2536- 20

-Y\_R2536- PT Sta. 24+55.33

-Y\_R2536- 25



MATCH LINE -Y R2536- 33+00  
 SEE SHEET 4A

-Y_R2536-	
PI Sta 17+48.17	PI Sta 22+45.82
$\Delta = 2^\circ 52' 15.2''$ (RT)	$\Delta = 2^\circ 50' 42.5''$ (LT)
D = 0' 29' 53.6"	D = 0' 40' 43.9"
L = 576.23'	L = 419.11'
T = 288.17'	T = 209.60'
R = 11,500.00'	R = 8,440.00'

-Y\_R2536- PRC Sta. 20+36.23

KIRA FAITH PELKEY  
 DB 2154 PG 184

CARLENE H LUCAS  
 DB 1069 PG 70  
 PB 12 PG 38

SHARON BURCHAM  
 BRENDA DAVIS,  
 ET AL  
 ESTATE DEED 18E PG 646

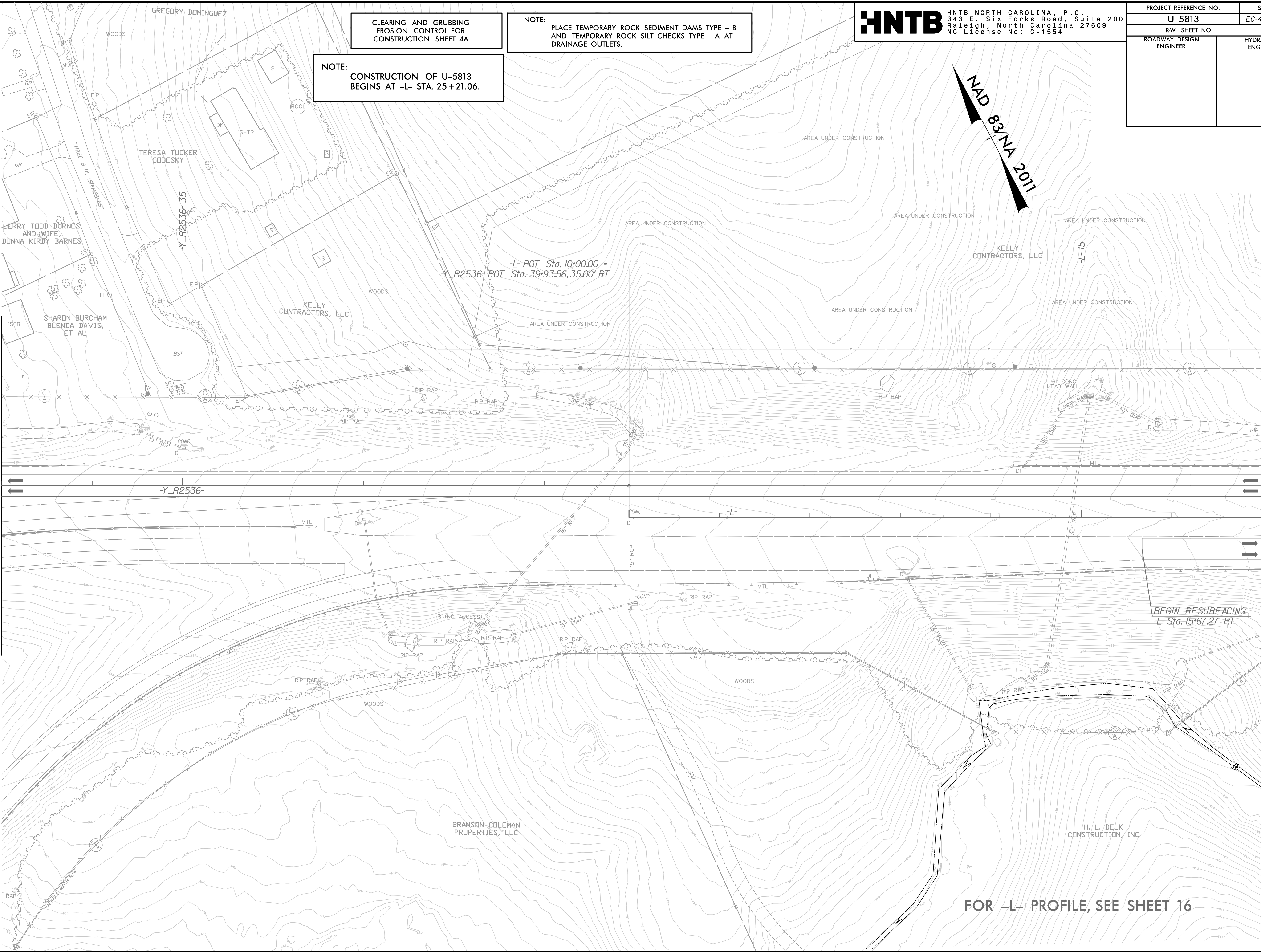
JERRY TODD BURNES  
 AND WIFE,  
 DONNA KIRBY BARNES  
 DB 8511 PG 954  
 WOODSPB 99 PG 51

8/17/99

11/9/2022  
11/9/2022 EC\_PSH44.dgn  
HNTB

MATCH LINE -Y R2536- 33 + 00  
SEE SHEET 4

MATCH LINE -L- 17 + 00  
SEE SHEET 5



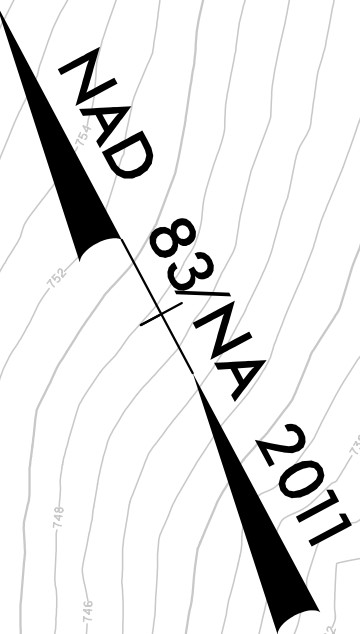
CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 4A

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

NOTE:  
CONSTRUCTION OF U-5813  
BEGINS AT -L- STA. 25+21.06.

**HNTB** HNTB NORTH CAROLINA, P.C.  
943 E. Six Forks Road, Suite 200  
Raleigh, North Carolina 27609  
NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
U-5813	EC-4A/CONST.4A
RW SHEET NO.	4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



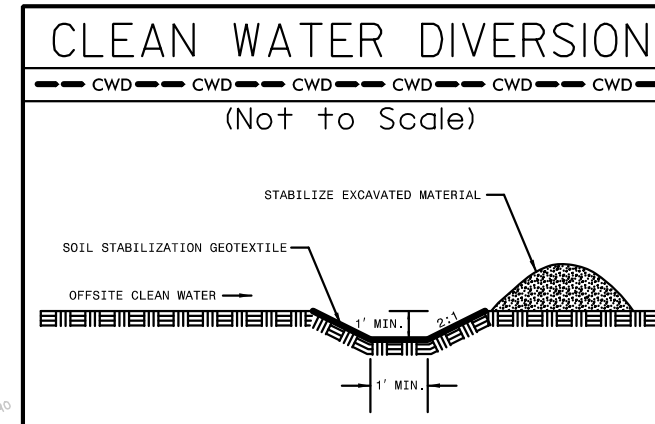
FOR -L- PROFILE, SEE SHEET 16



8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-5813	EC-5/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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 943 E. Six Forks Road, Suite 200  
 Raleigh, North Carolina 27609  
 NC License No: C-1554



**NOTE:** UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP, TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

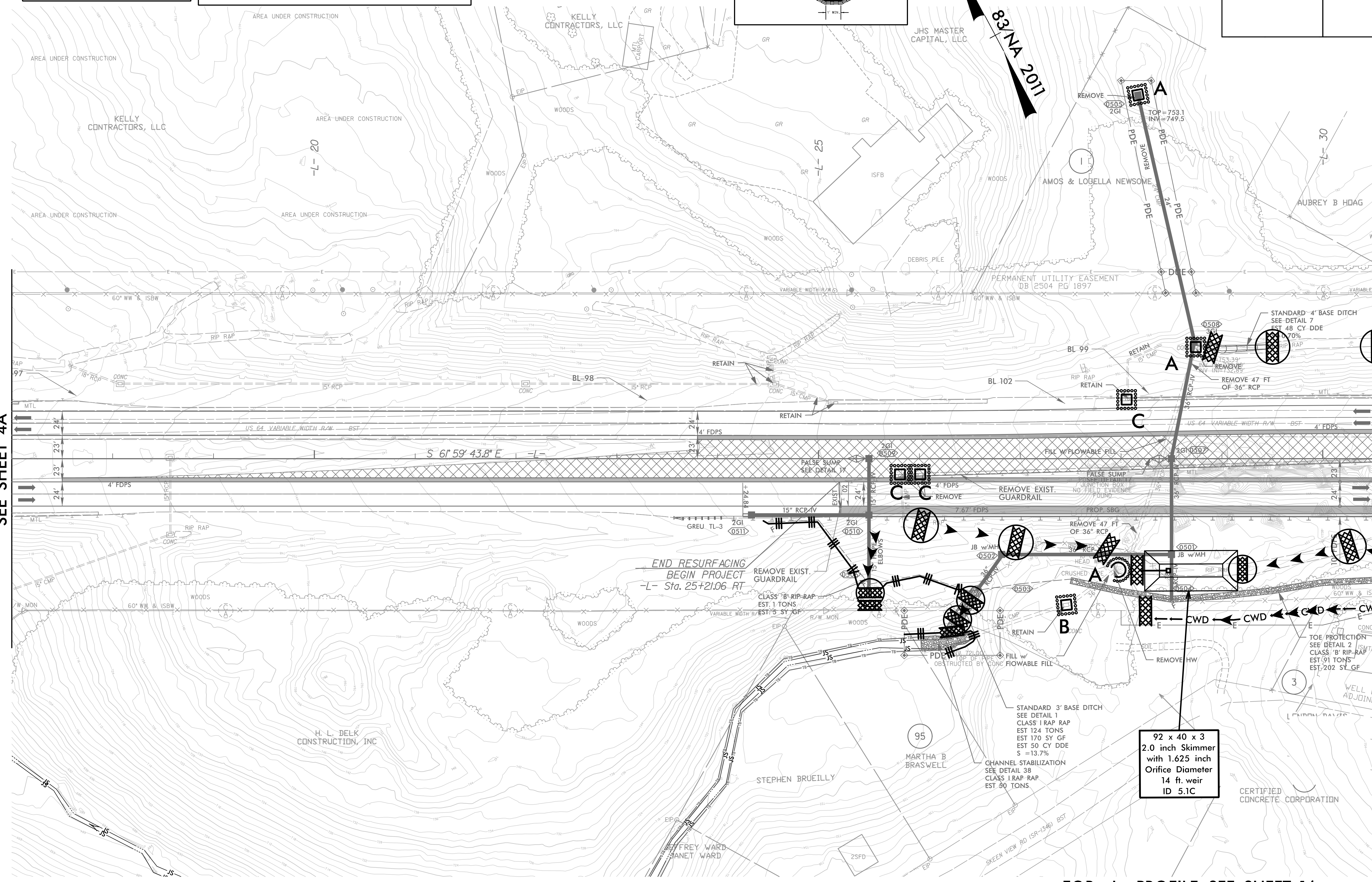
**NOTE:** PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

**CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5**

**NAD 83/NA 2011**

MATCH LINE -L- 17+00  
SEE SHEET 4A

MATCH LINE -L- 30+50  
SEE SHEET 6



FOR -L- PROFILE, SEE SHEET 16

10/17/2023 10:17:58 AM EC\_PSHS.dgn

8/17/99

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 6

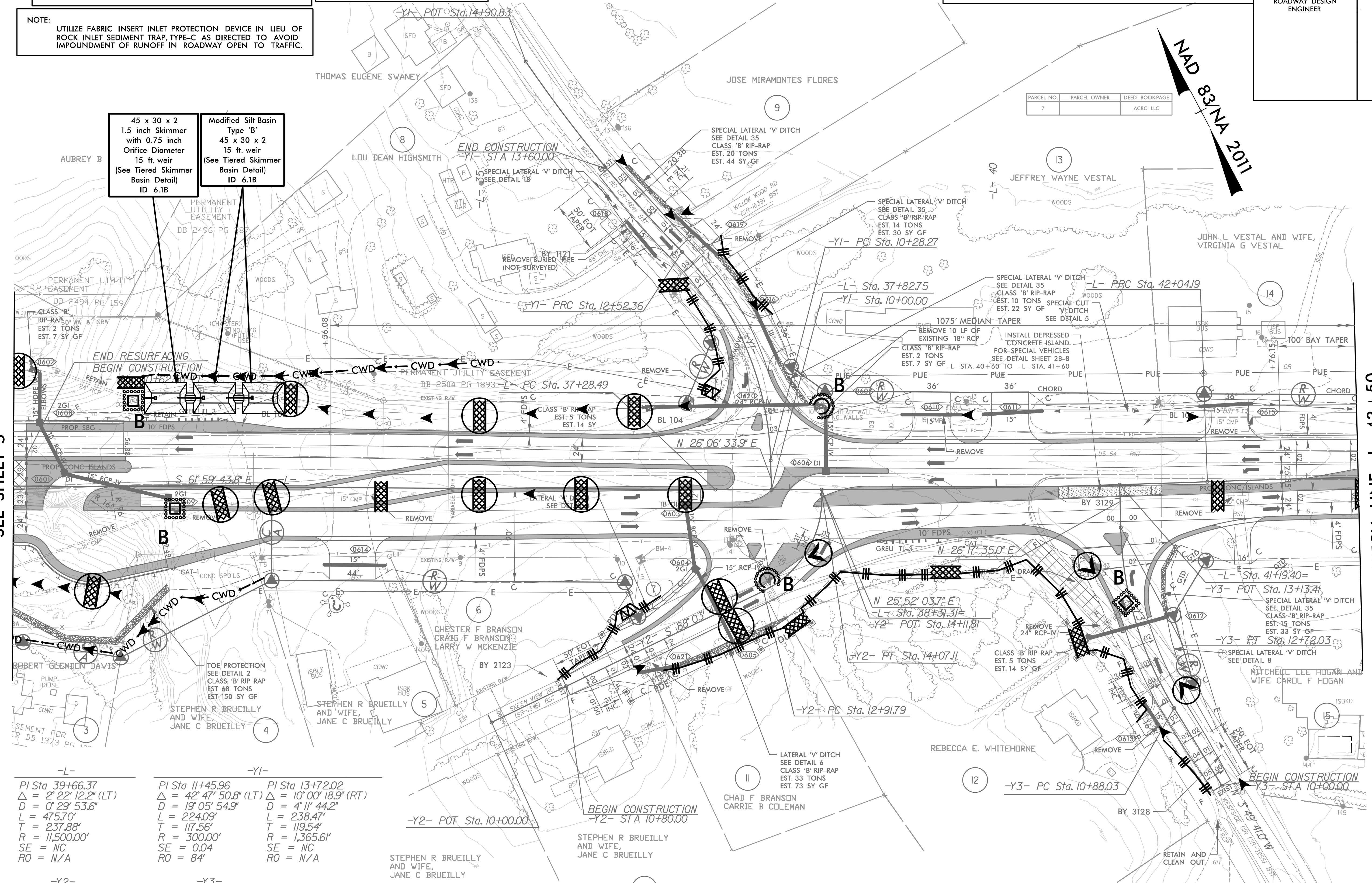
NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP, TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

**HNTB** HNTB NORTH CAROLINA, P.C. 343 E. Six Forks Road, Suite 200 Raleigh, North Carolina 27609 NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
U-5813	EC-6/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE -L- 30+50  
SEE SHEET 5

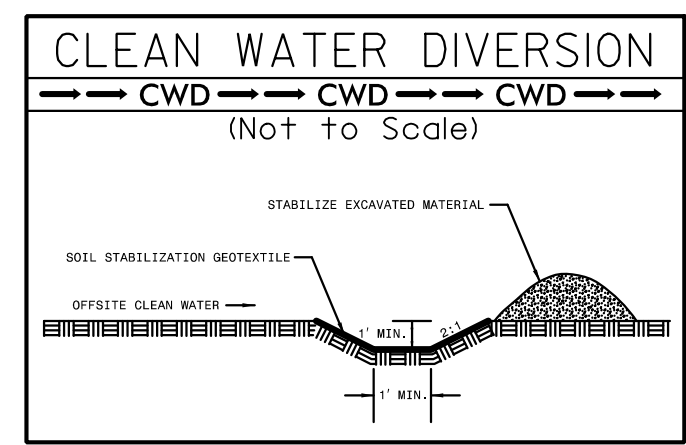
MATCH LINE -L- 43+50  
SEE SHEET 7



45 x 30 x 2  
1.5 inch Skimmer  
with 0.75 inch  
Orifice Diameter  
15 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 6.1B

Modified Silt Basin  
Type 'B'  
45 x 30 x 2  
15 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 6.1B

-L-	-Y1-	-Y2-	-Y3-
PI Sta 39+66.37	PI Sta 11+45.96	PI Sta 13+72.02	PI Sta 11+82.21
$\Delta = 2' 22" 12.2" (LT)$	$\Delta = 42' 47" 50.8" (LT)$	$\Delta = 10' 00" 18.9" (RT)$	$\Delta = 30' 07" 15.9" (RT)$
D = 0' 29' 53.6"	D = 19' 05' 54.9"	D = 4' 11' 44.2"	D = 16' 22' 12.8"
L = 475.70'	L = 224.09'	L = 238.47'	L = 184.00'
T = 237.88'	T = 117.56'	T = 119.54'	T = 94.18'
R = 11,500.00'	R = 300.00'	R = 1,365.61'	R = 350.00'
SE = NC	SE = 0.04	SE = NC	SE = 0.02
RO = N/A	RO = 84'	RO = N/A	RO = 42'



NAD 83/NA 2011

PARCEL NO.	PARCEL OWNER	DEED BOOKPAGE
7		ACBC LLC

10/19/2023 EC\_PSHG.dgn

8/17/99

NOTE:  
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 7

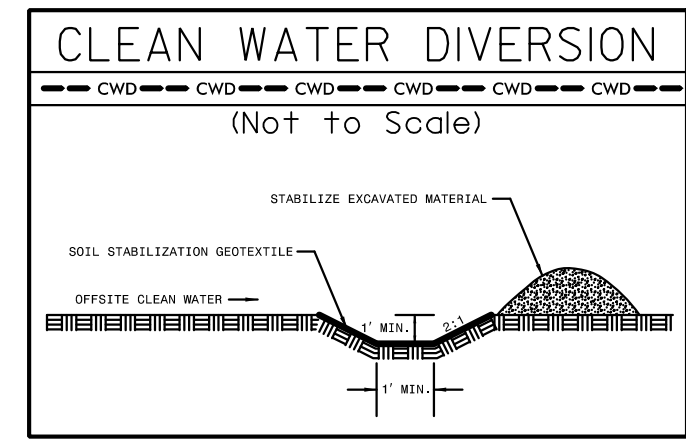
NOTE:  
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

**HNTB** HNTB NORTH CAROLINA, P.C.  
3443 E. Six Forks Road, Suite 200  
Raleigh, North Carolina 27609  
NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
U-5813	EC-7/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE -L- 43 + 50  
SEE SHEET 6

MATCH LINE -L- 55 + 50  
SEE SHEET 8



-L-  
 PI Sta 44+39.62  
 $\Delta = 2^{\circ} 20' 44.5" (RT)$   
 $D = 0^{\circ} 29' 53.6"$   
 $L = 397.00'$   
 $T = 235.44'$   
 $R = 11,500.00'$   
 $SE = NC$   
 $RO = N/A$

Modified Silt Basin  
Type 'B'  
23 x 20 x 3  
5 ft. weir  
(See Tiered Skimmer Basin Detail)  
ID 7.1C

Modified Silt Basin  
Type 'B'  
37 x 25 x 3  
7 ft. weir  
(See Tiered Skimmer Basin Detail)  
ID 7.2C

37 x 25 x 3  
1.5 inch Skimmer  
with 1.0 inch  
Orifice Diameter  
7 ft. weir  
(See Tiered Skimmer Basin Detail)  
ID 7.2C

30 x 15 x 3  
1.5 inch Skimmer  
with 0.5 inch  
Orifice Diameter  
4 ft. weir  
ID 7.5B

40 x 13 x 2  
1.5 inch Skimmer  
with 0.5 inch  
Orifice Diameter  
4 ft. weir  
ID 7.6B

55 x 15 x 2  
1.5 inch Skimmer  
with 0.5 inch  
Orifice Diameter  
4 ft. weir  
ID 7.8B

ENVIRONMENTALLY SENSITIVE AREA  
SEE PROJECT SPECIAL PROVISIONS

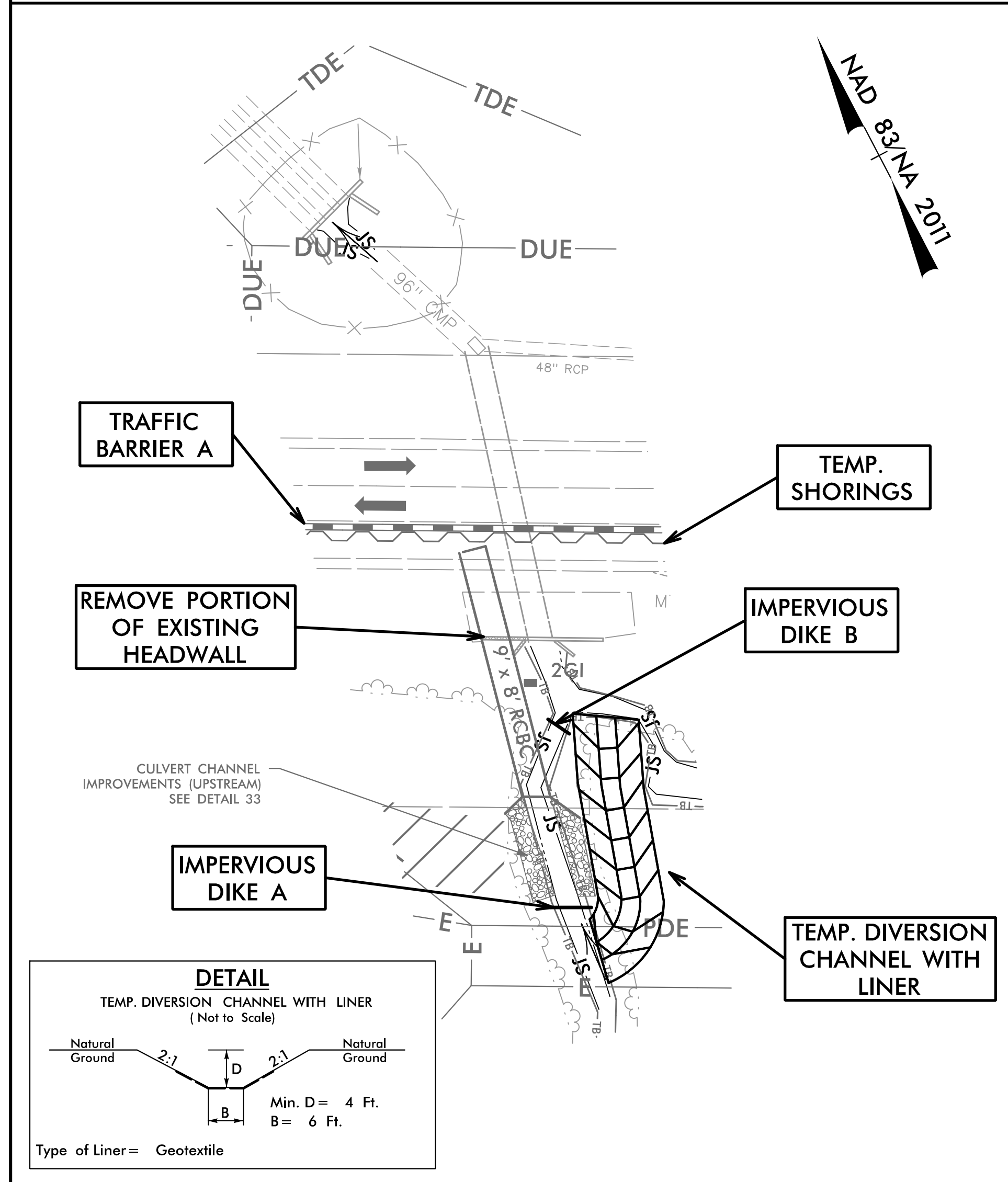
10/17/2023 EC.PSH7.dgn

# CULVERT CONSTRUCTION SEQUENCE STA. 53+99 -L-

PROJECT REFERENCE NO. U-5813	SHEET NO. EC-7A/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

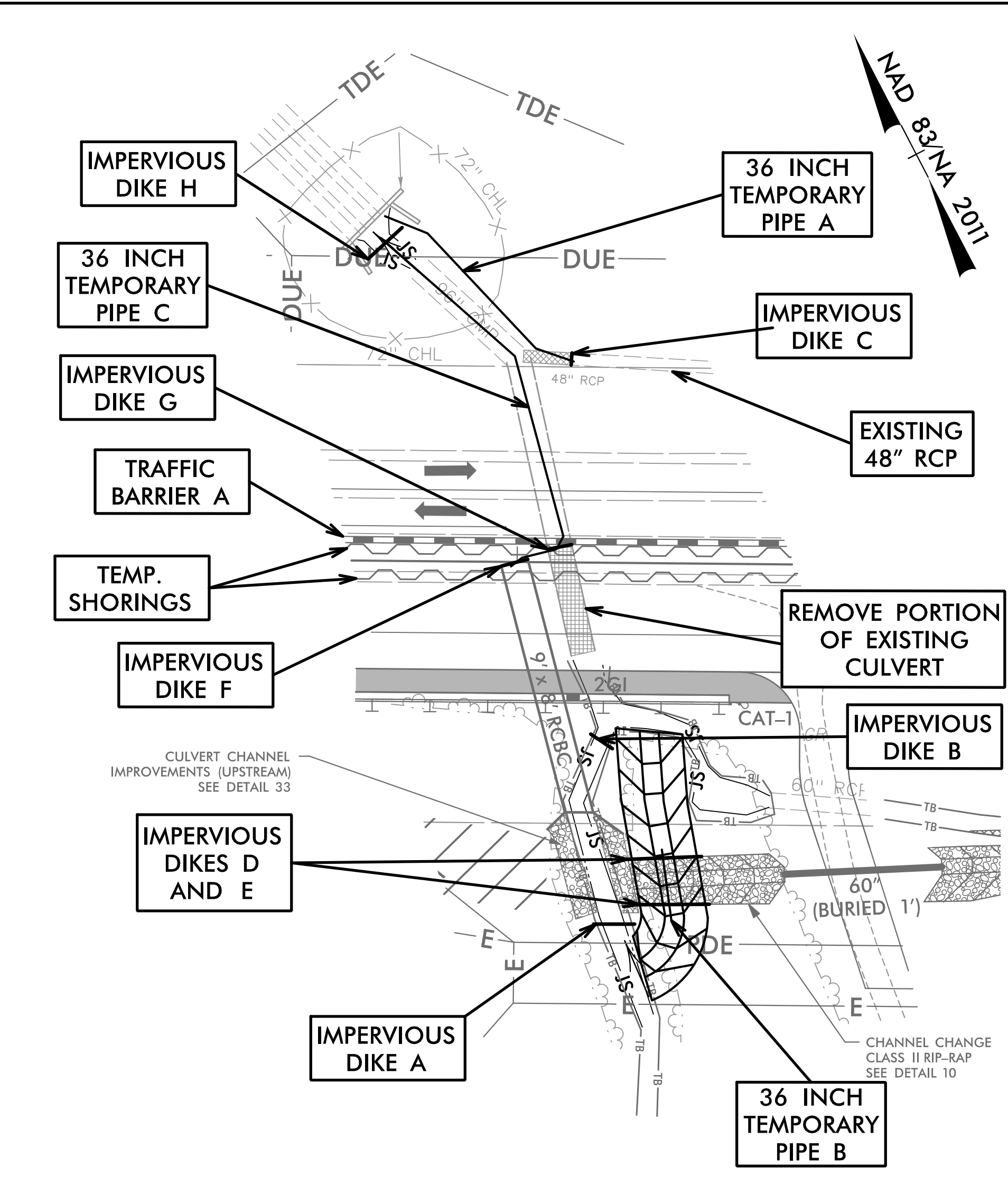
## PHASE I

1. UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED DURING CULVERT CONSTRUCTION.
2. INSTALL TEMP. DIVERSION CHANNEL WITH LINER AND IMPERVIOUS DIKES A AND B.
3. DIVERT FLOW THROUGH TEMP. DIVERSION CHANNEL WITH LINER AND EXISTING 8' X 7' CULVERT.
4. DEWATER WORK AREA(S) WITH SPECIAL STILLING BASIN(S) AS NEEDED.
5. INSTALL TRAFFIC BARRIER A AND TEMPORARY SHORING ACCORDING TO TRAFFIC CONTROL PLAN.
6. REMOVE PORTION OF EXISTING HEADWALL.
7. CONSTRUCT UPSTREAM PORTION OF PROPOSED 9' X 8' RCBC, WING WALLS AND CHANNEL IMPROVEMENTS.



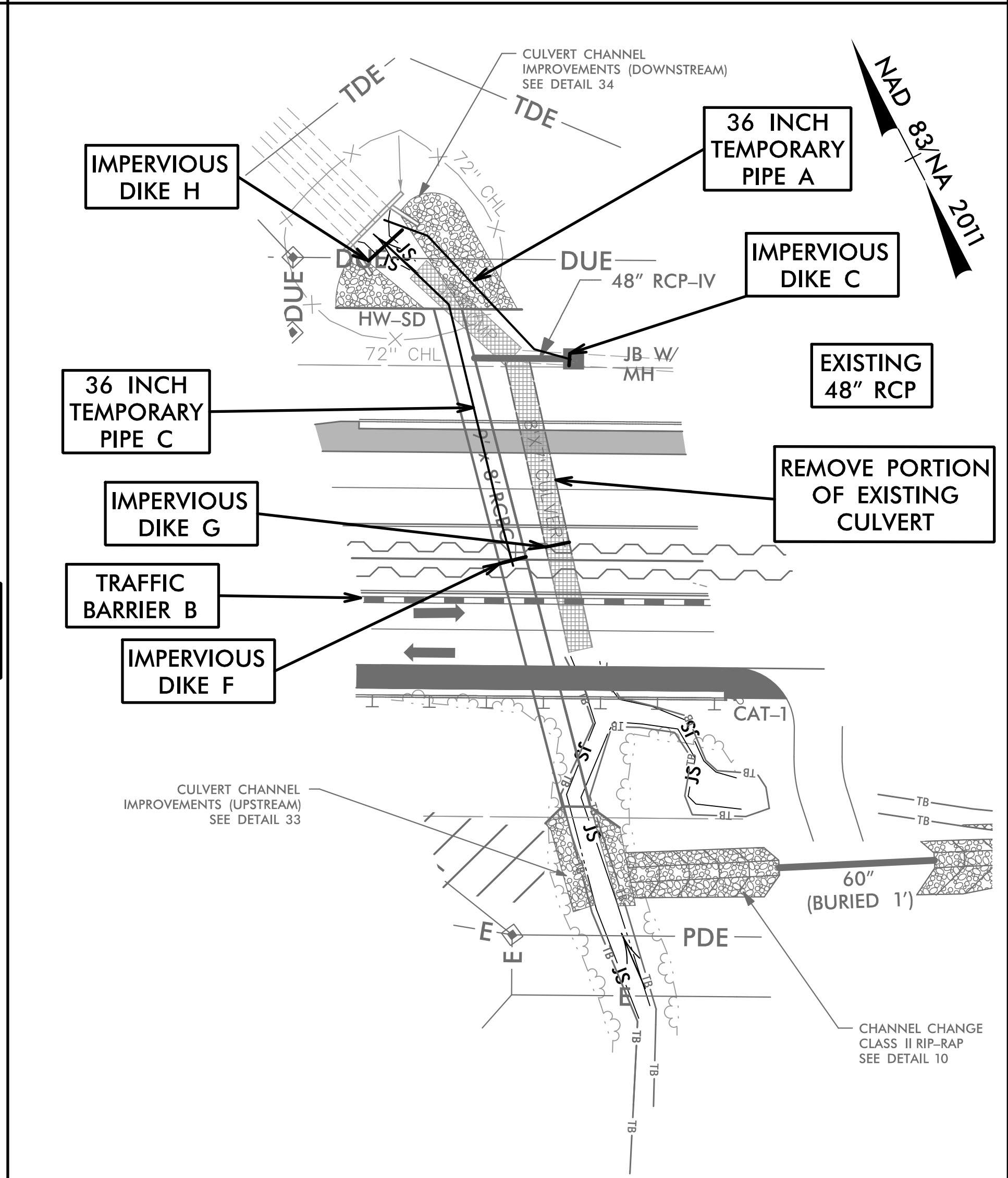
## PHASE II

1. REMOVE APPROXIMATELY 18 FT OF EXISTING 48" RCP.
2. INSTALL IMPERVIOUS DIKE C AND TEMP. 36" PIPE A TO COVEY FLOW FROM EXISTING 48" RCP.
3. INSTALL IMPERVIOUS DIKE D, E AND TEMP. 36" PIPE B.
4. CONSTRUCT PROPOSED CHANNEL CHANGE AND PROPOSED 60" DRIVEWAY PIPE FROM -L- STA.54+32 TO 56+30 RT. AND TIE IN WITH CULVERT CHANNEL IMPROVEMENT.
5. INSTALL IMPERVIOUS DIKES F, G, H AND TEMP. 36" PIPE C AS SHOWN.
6. REMOVE IMPERVIOUS DIKES A, B, D, E, TEMP. 36" PIPE B, EXISTING 60" RCP DRIVEWAY PIPE, AND TEMP. DIVERSION CHANNEL WITH LINER.
7. DIVERT WEST SIDE TRIBUTARY FLOW INTO NEWLY CONTRACTED CHANNEL CHANGE AND 60" DRIVEWAY PIPE.
8. DIVERT FLOW FROM MAIN CHANNEL TO NEWLY CONSTRUCTED UPSTREAM CULVERT AND TEMP. 36" PIPE C.
9. REMOVE UPSTREAM PORTION OF EXISTING 8' X 7' CULVERT
10. INSTALL TEMP. SHORINGS ACCORDING TO TRAFFIC CONTROL PLAN.
11. CONSTRUCT TEMPORARY WIDENING AND SHIFT TRAFFIC.



## PHASE III

1. INSTALL TRAFFIC BARRIER B AND REMOVE TRAFFIC BARRIER A ACCORDING TO TRAFFIC CONTROL PLAN.
2. MAINTAIN IMPERVIOUS DIKES F, G, H, TEMP. 36" PIPE A, AND TEMP. 36" PIPE C.
3. REMOVE EXISTING 96" CMP DOWNSTREAM OF PROPOSED CULVERT.
4. ONCE THE PROPOSED DOWNSTREAM CULVERT CHANNEL IS DONE, REARRANGE TEMP. 36" PIPE C'S CONFIGURATION AS SHOWN.
5. INSTALL DOWNSTREAM PORTION OF PROPOSED CULVERT, HEAD WALL, CHANNEL IMPROVEMENT, AND PROPOSED 48" RCP WITH JB W/MH.
6. REMOVE REMAINING PORTION OF EXISTING 8' X 7' CULVERT.
7. REMOVE IMPERVIOUS DIKES C, F, G, H, AND TEMP. 36" PIPE A AND C.
8. REMOVE ANY REMAINING SPECIAL STILLING BASIN(S).
9. REMOVE TEMP. SHORINGS AND TRAFFIC BARRIER ACCORDING TO TRAFFIC CONTROL PLAN.
10. COMPLETE ROADWAY.



PROJECT REFERENCE NO.	SHEET NO.
U-5813	EC-8/CONST.8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

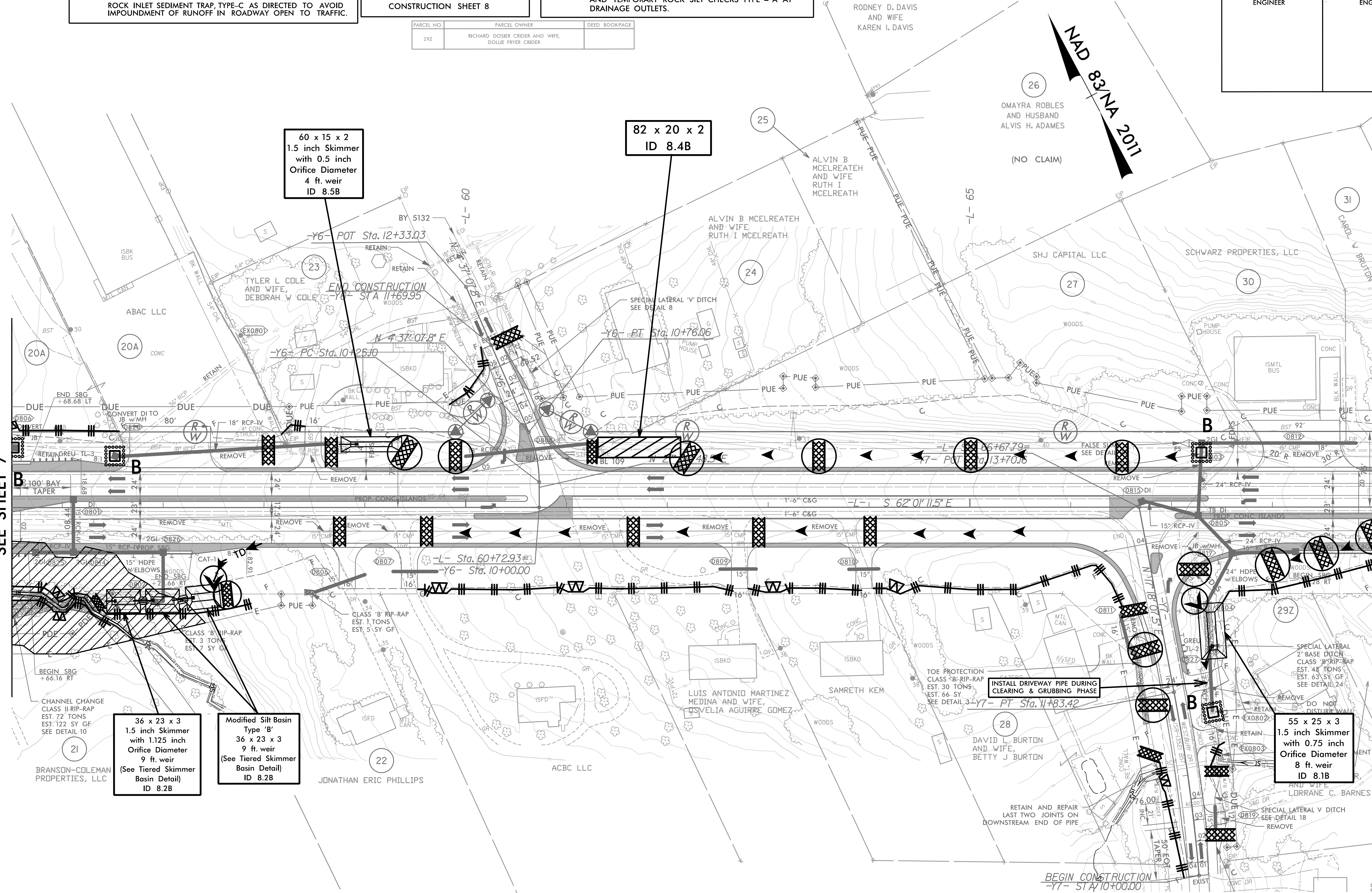
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 8

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

PARCEL NO.	PARCEL OWNER	DEED BOOK/PAGE
292	RICHARD DOSIER CRIDER AND WIFE, DOLLIE FRYER CRIDER	

MATCH LINE -L- 55+50  
SEE SHEET 7

MATCH LINE -L- 69+00  
SEE SHEET 9

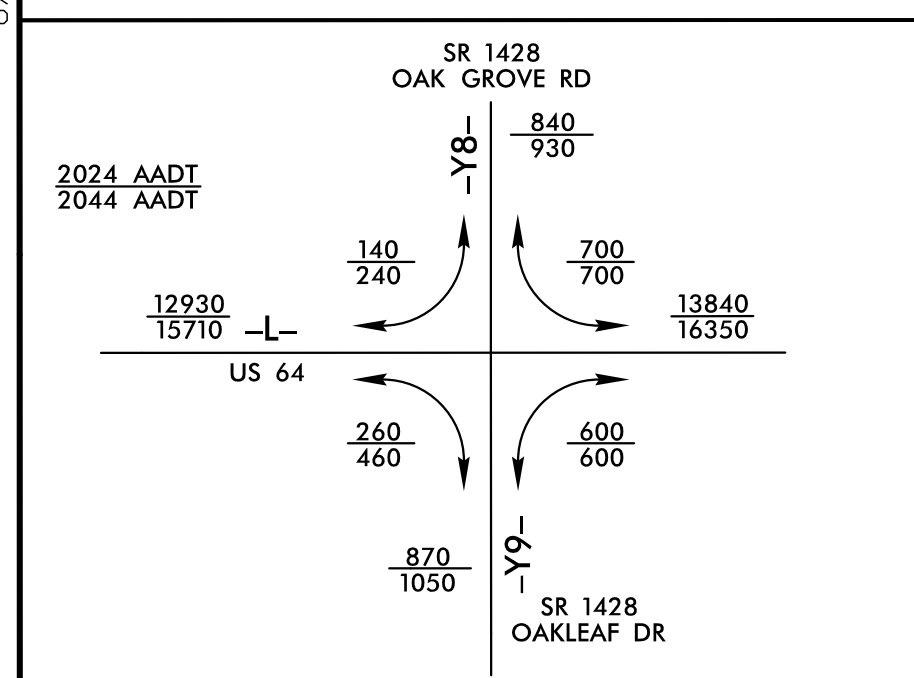


-Y6-	-Y7-
PI Sta 10+50.94	PI Sta 10+91.79
$\Delta = 23^{\circ} 21' 40.7''$ (LT)	$\Delta = 5^{\circ} 50' 18.0''$ (LT)
$D = 45^{\circ} 50' 11.8''$	$D = 3^{\circ} 10' 59.2''$
$L = 50.97'$	$L = 183.42'$
$T = 25.84'$	$T = 91.79'$
$R = 125.00'$	$R = 1,800'$
$SE = 0.05$	$SE = 0.04$
$RO = 105'$	$RO = 84'$

ENVIRONMENTALLY SENSITIVE AREA  
SEE PROJECT SPECIAL PROVISIONS

8.17.19

INTERSECTION OF -L- (US 64), -Y8- (SR 1428 - OAK GROVE RD) & -Y9- (SR 1428 - OAKLEAF DR)



PARCEL NO.	PARCEL OWNER	DEED BOOK/PAGE
33	THE JESSE TATE LEONARD FAMILY TRUST TRUSTEES PHYLIS LEONARD MARTENS JESSE TATE LEONARD	
34/34B	MCKENZIE PROPERTIES AND INVESTMENTS, LLC	
35	ANDREW MARK SCHWARZ	

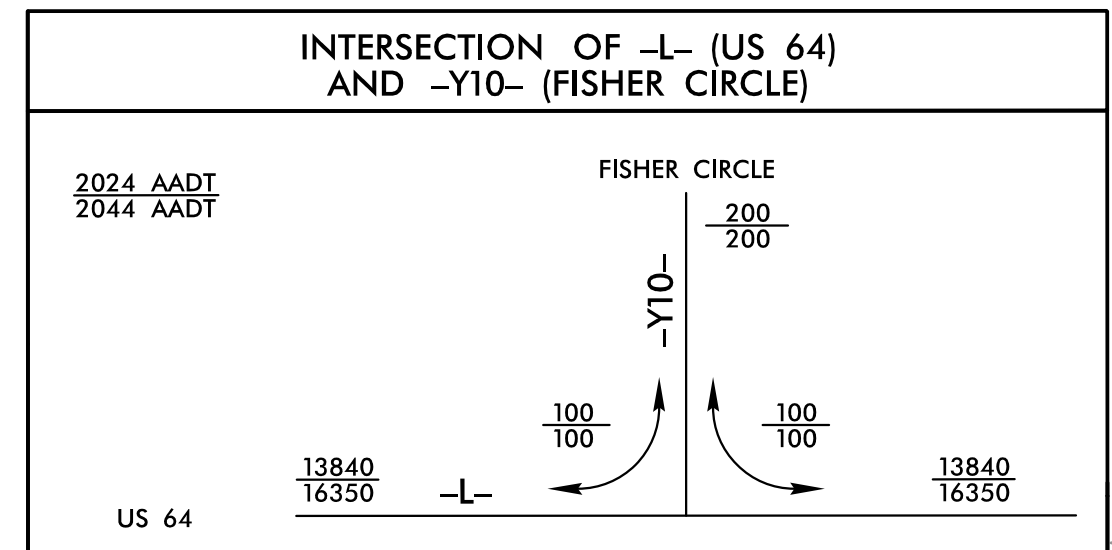
NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP, TYPE-C, AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 9

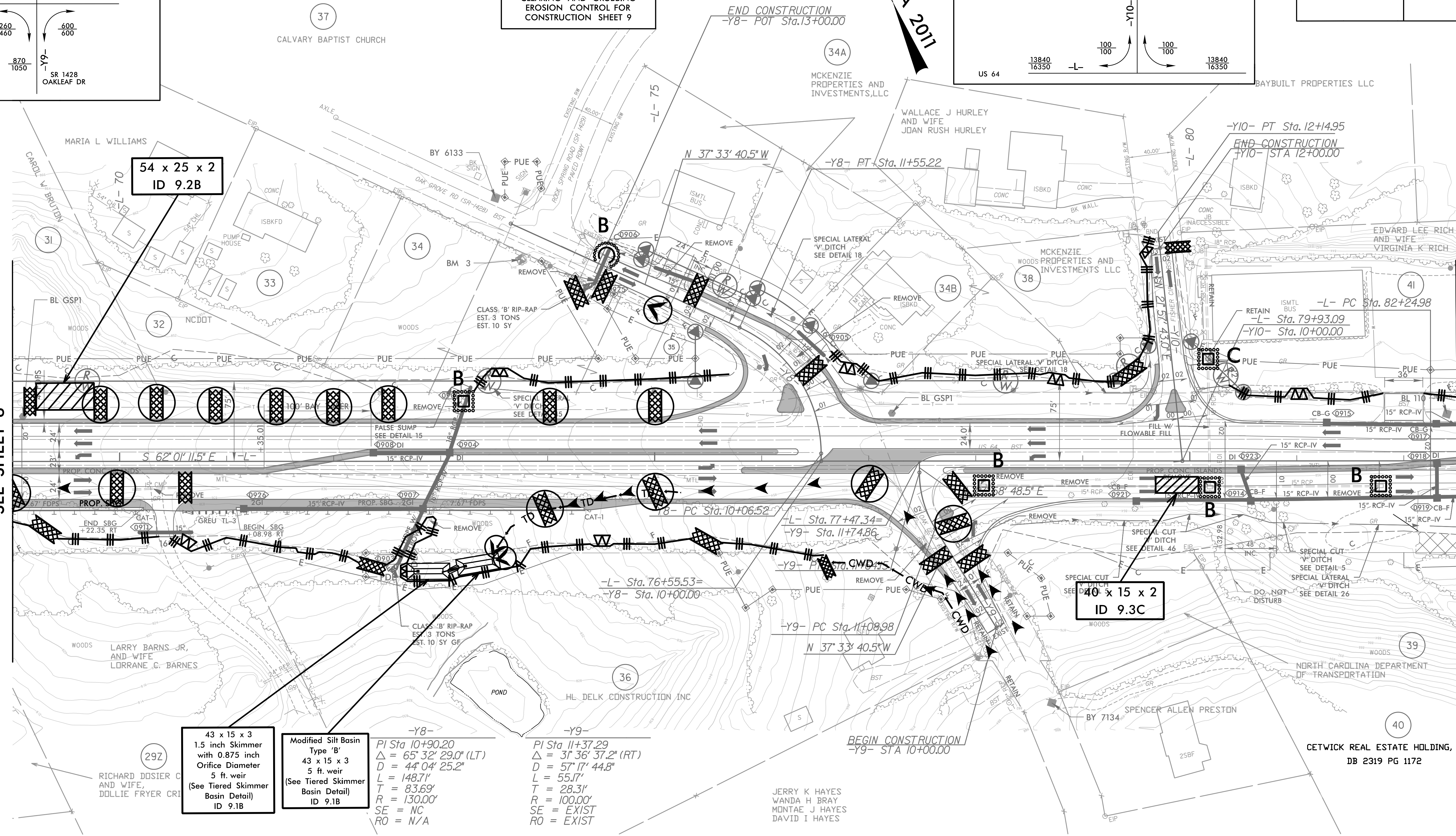
**HNTB** HNTB NORTH CAROLINA, P.C.  
343 E Six Forks Road, Suite 200  
Raleigh, North Carolina 27609  
NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
U-5813	EC-9/CONST.9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCH LINE -L- 69+00  
SEE SHEET 8

MATCH LINE -L- 82+50  
SEE SHEET 10

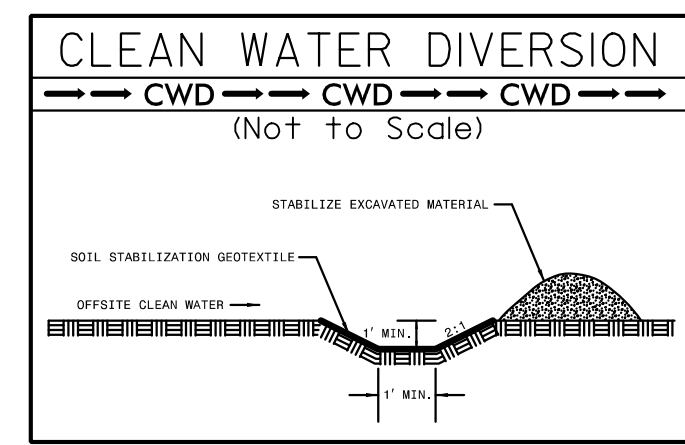


43 x 15 x 3  
1.5 inch Skimmer  
with 0.875 inch  
Orifice Diameter  
5 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 9.1B

Modified Silt Basin  
Type 'B'  
43 x 15 x 3  
5 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 9.1B

-Y8-  
PI Sta 10+90.20  
 $\Delta = 65' 32" 29.0" (LT)$   
 $D = 44' 04" 25.2"$   
 $L = 148.71'$   
 $T = 83.69'$   
 $R = 130.00'$   
SE = NC  
RO = N/A

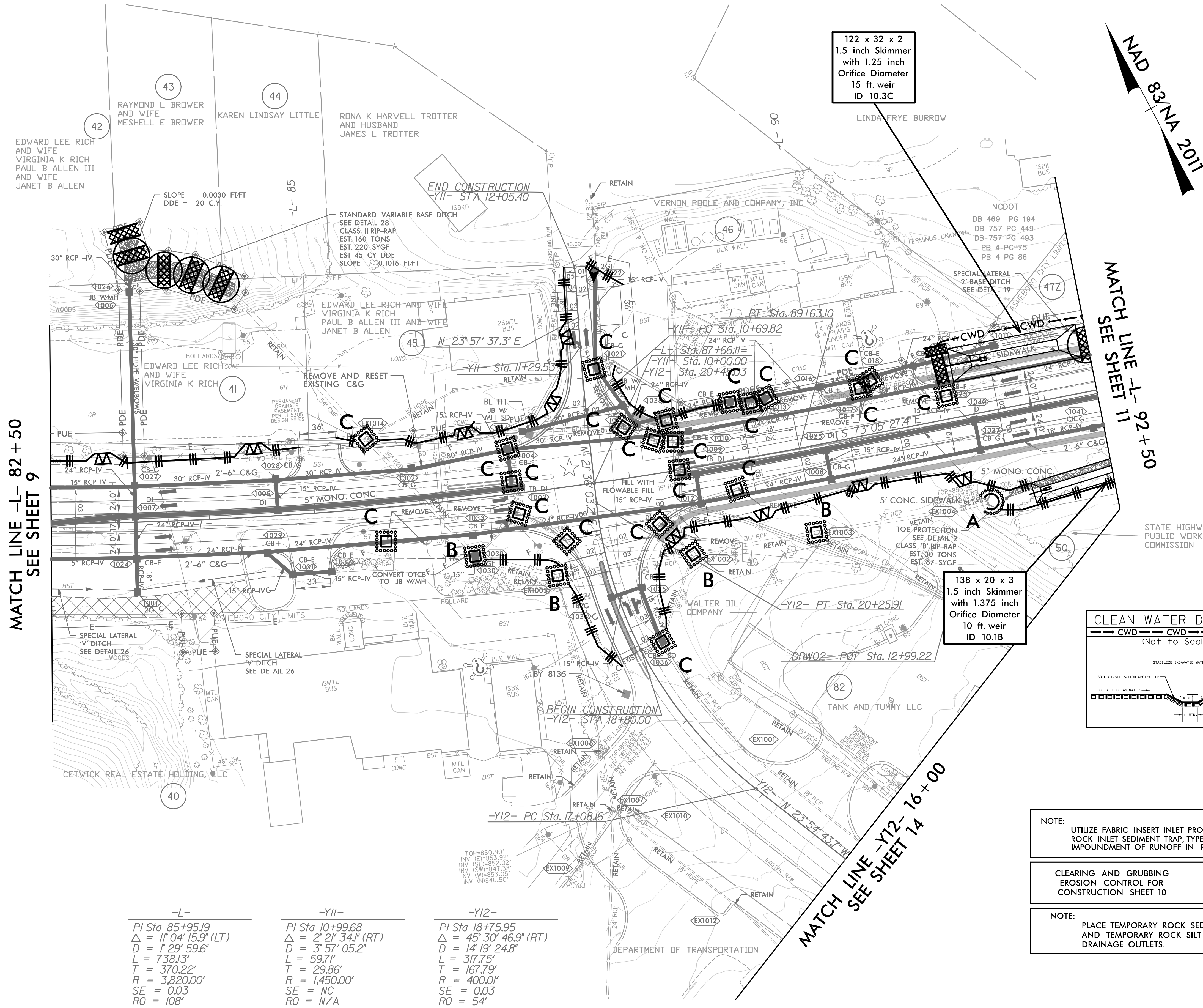
-Y9-  
PI Sta 11+37.29  
 $\Delta = 31' 36" 37.2" (RT)$   
 $D = 57' 17" 44.8"$   
 $L = 55.17'$   
 $T = 28.31'$   
 $R = 100.00'$   
SE = EXIST  
RO = EXIST



FOR -L-, -Y8-, -Y9-, & -Y10-  
DIMENSIONS, SEE SHEET 2B-2  
FOR -L- PROFILE, SEE SHEET 18  
FOR -Y8- PROFILE, SEE SHEET 24  
FOR -Y9-, -Y10- PROFILES, SEE SHEET 25

10.17.2023 Ec.PSH9.dgn

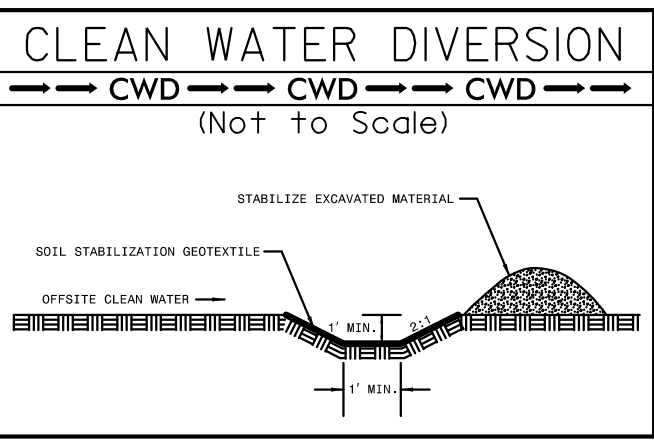
PROJECT REFERENCE NO.	SHEET NO.
U-5813	EC-10/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCH LINE -L- 82 + 50  
SEE SHEET 9

MATCH LINE -L- 92 + 50  
SEE SHEET 11

MATCH LINE -Y12- 16 + 00  
SEE SHEET 14



NOTE:  
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

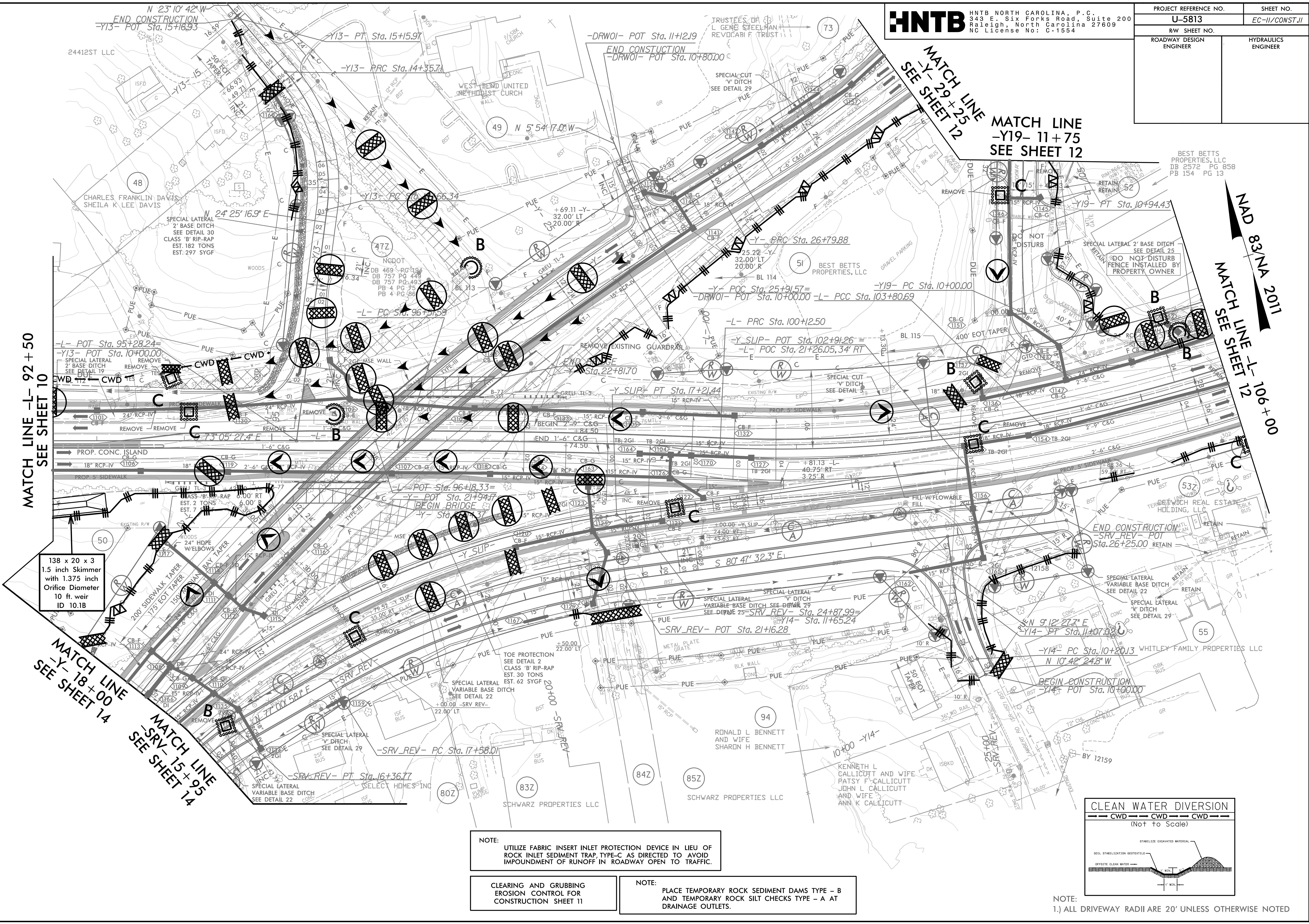
CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 10

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

-L-	-Y11-	-Y12-
PI Sta 85+95.19	PI Sta 10+99.68	PI Sta 18+75.95
Δ = 11' 04" 15.9" (LT)	Δ = 2' 21" 34.1" (RT)	Δ = 45' 30" 46.9" (RT)
D = 1' 29" 59.6"	D = 3' 57" 05.2"	D = 14' 19" 24.8"
L = 738.13'	L = 59.71'	L = 317.75'
T = 370.22'	T = 29.86'	T = 167.79'
R = 3,820.00'	R = 1,450.00'	R = 400.01'
SE = 0.03	SE = NC	SE = 0.03
RO = 108'	RO = N/A	RO = 54'

8/17/99

10/30/2023 EC.PSH1.dgn



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 Raleigh, North Carolina 27609  
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PROJECT REFERENCE NO.	SHEET NO.
U-5813	EC-II/CONST/II
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE  
 -Y- 29+25  
 SEE SHEET 12

MATCH LINE  
 -Y19- 11+75  
 SEE SHEET 12

NAD 83/NA 2011  
 MATCH LINE  
 -L- 106+00  
 SEE SHEET 12

MATCH LINE  
 -L- 92+50  
 SEE SHEET 10

138 x 20 x 3  
 1.5 inch Skimmer  
 with 1.375 inch  
 Orifice Diameter  
 10 ft. weir  
 ID 10.1B

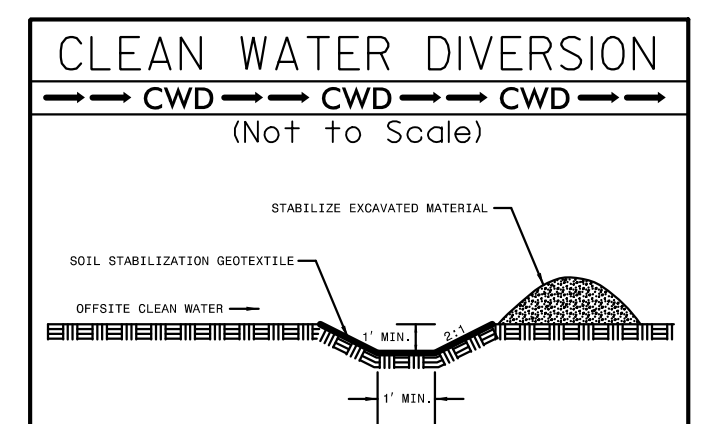
MATCH LINE  
 -Y- 18+00  
 SEE SHEET 14

MATCH LINE  
 -SRV- 15+95  
 SEE SHEET 14

NOTE:  
 UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP, TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

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.



NOTE:  
 1.) ALL DRIVEWAY RADII ARE 20' UNLESS OTHERWISE NOTED



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

NOTE: UTILIZE FABRIC INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPES - C AS DIRECTED TO AVOID IMPROVEMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

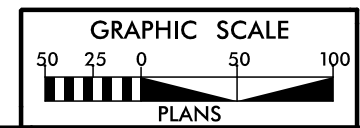
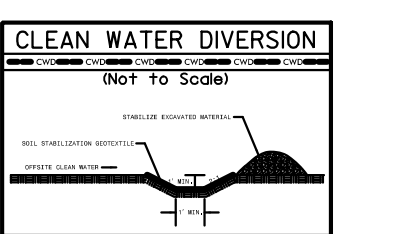
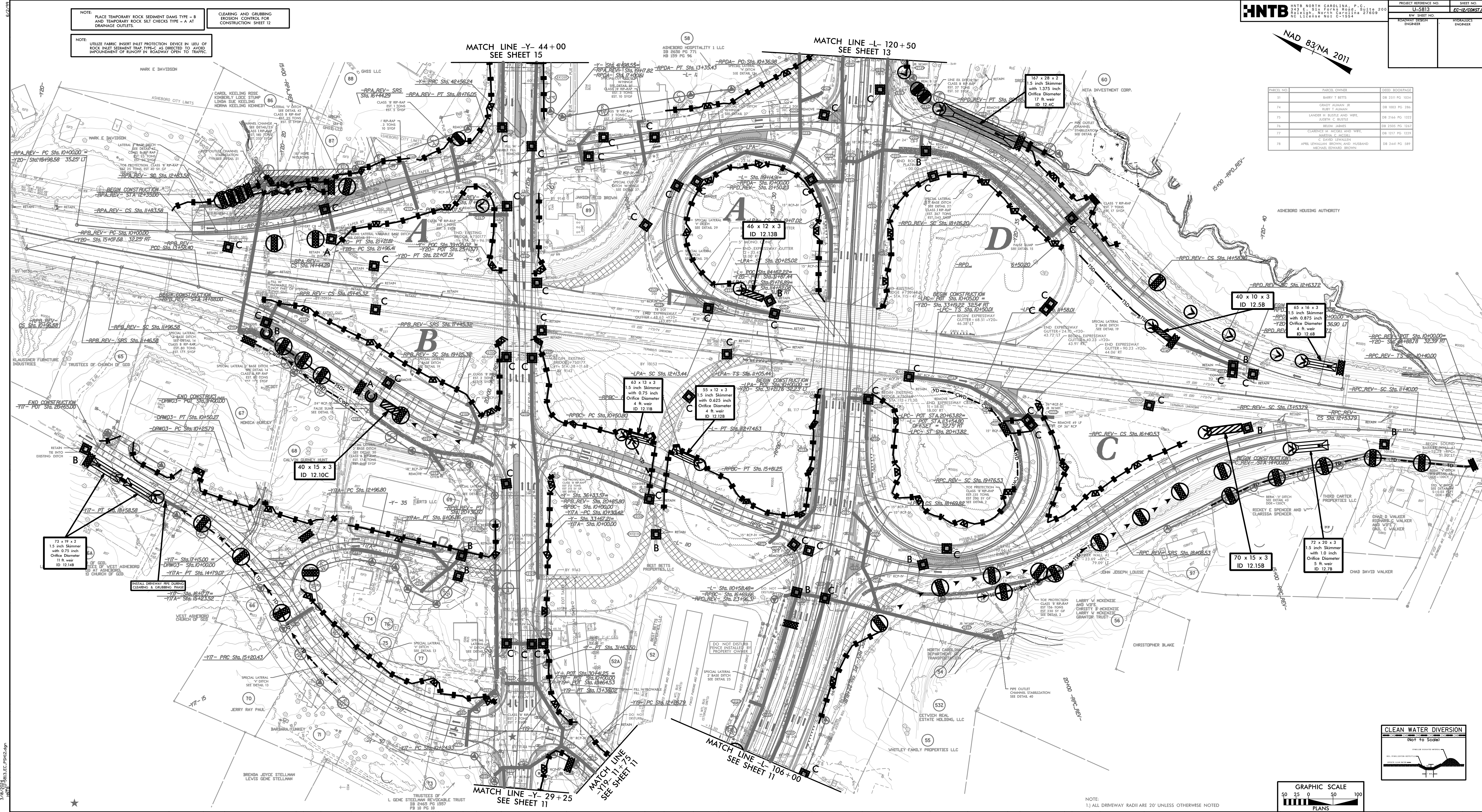
CLEARING AND GRUBBING BROODEN CONTROL FOR CONSTRUCTION SHEET 12

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 2424 E. 5TH STREET, SUITE 200  
 RALEIGH, NORTH CAROLINA 27609  
 P.C. LICENSE NO. 24049

PROJECT REFERENCE NO. EC-12/CONV-12  
 SHEET NO. EC-12/CONV-12  
 REV. SHEET NO. EC-12/CONV-12  
 DESIGNER: HNTB  
 PROJECT ENGINEER: HNTB

NAD 83/NA 2011

PARCEL NO.	PARCEL OWNER	DEED BOOK/PAGE
51	BARRY T BETTS	DB 2017 PG 1034
74	CAROL ANNAN TR ROBERT ALMAN	DB 1003 PG 286
75	LANDER H BUCKE AND WIFE JUDITH C BUCKE	DB 3166 PG 1322
76	BRIAN JARVIS	DB 2505 PG 1247
77	CLARENCE W HANCOCK AND WIFE MARGARET K JONES	DB 1317 PG 1029
78	APRIL LEWALAK BROWN AND HUSBAND WENDY EDWARD BROWN	DB 2441 PG 589



NOTE: 1) ALL DRIVEWAY RADII ARE 20' UNLESS OTHERWISE NOTED

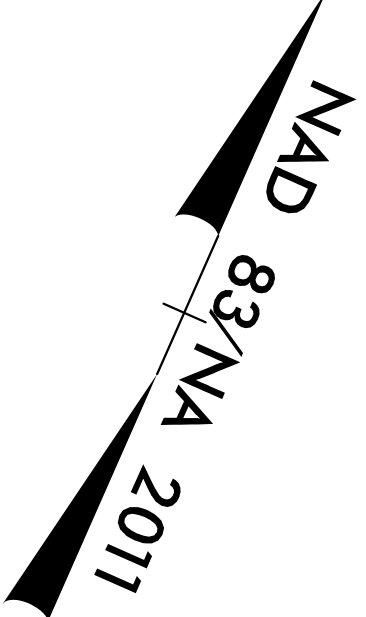
3/16/2012 10:51 AM

PROJECT REFERENCE NO.	SHEET NO.
U-5813	EC-13/CONST.13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

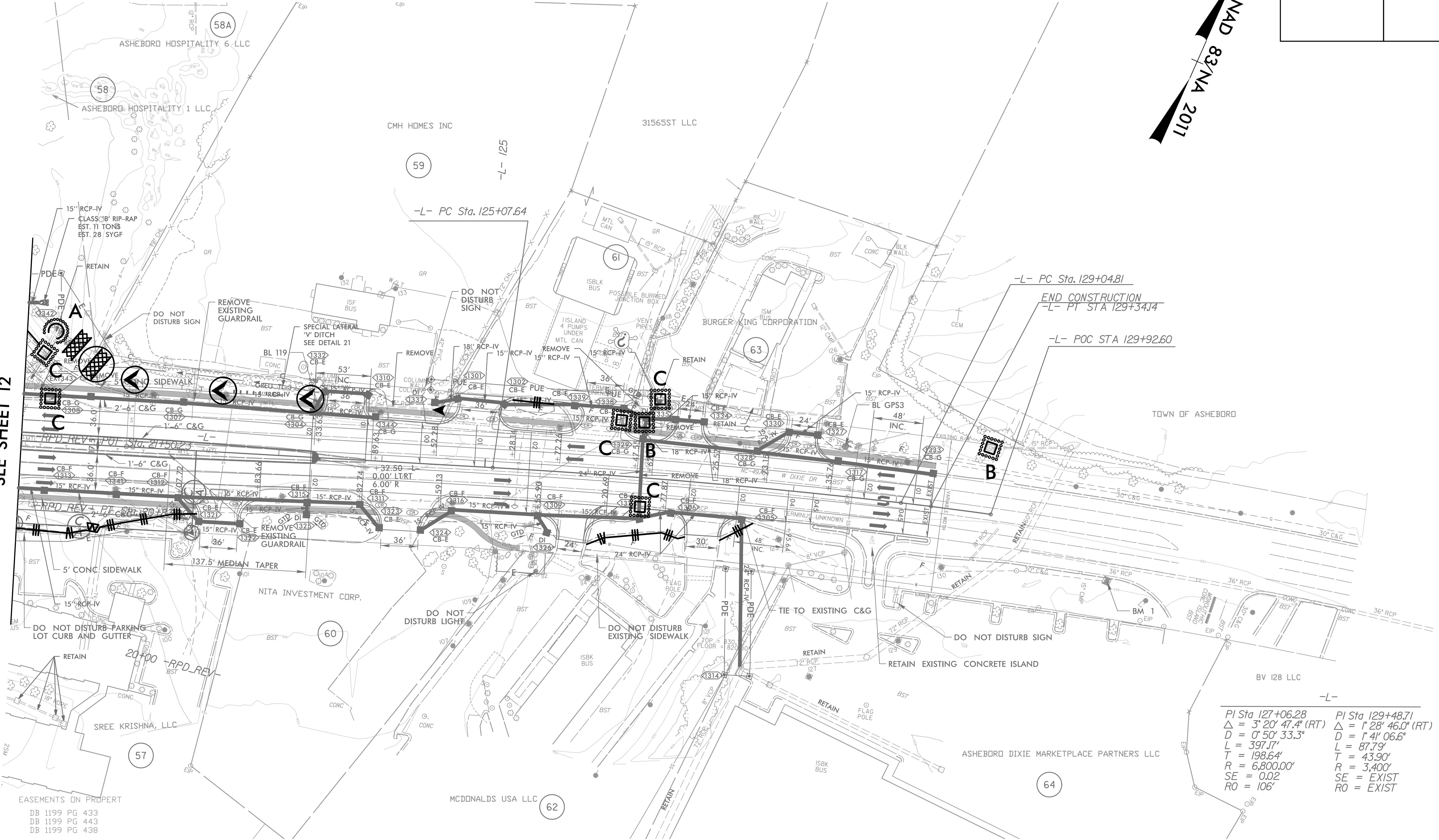
CLEARING AND GRUBBING  
 EROSION CONTROL FOR  
 CONSTRUCTION SHEET 13

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

NOTE:  
 UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF  
 ROCK INLET SEDIMENT TRAP, TYPE-C AS DIRECTED TO AVOID  
 IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.



MATCH LINE -L- 120+50  
 SEE SHEET 12



EASEMENTS ON PROPERTY  
 DB 1199 PG 433  
 DB 1199 PG 443  
 DB 1199 PG 438

PI Sta 127+06.28	PI Sta 129+48.71
$\Delta = 3^{\circ} 20' 47.4''$ (RT)	$\Delta = 1^{\circ} 28' 46.0''$ (RT)
D = 0' 50' 33.3"	D = 1' 4' 06.6"
L = 397.17'	L = 87.79'
T = 198.64'	T = 43.90'
R = 6,800.00'	R = 3,400'
SE = 0.02	SE = EXIST
RO = 106'	RO = EXIST

NOTE:  
 1.) ALL DRIVEWAY RADII ARE 20' UNLESS OTHERWISE NOTED

FOR -L- PROFILE, SEE SHEETS 19,20

8.17.99

10.17.2023 EC.PSH13.dgn

PROJECT REFERENCE NO.	SHEET NO.
U-5813	EC-14/CONST.14
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

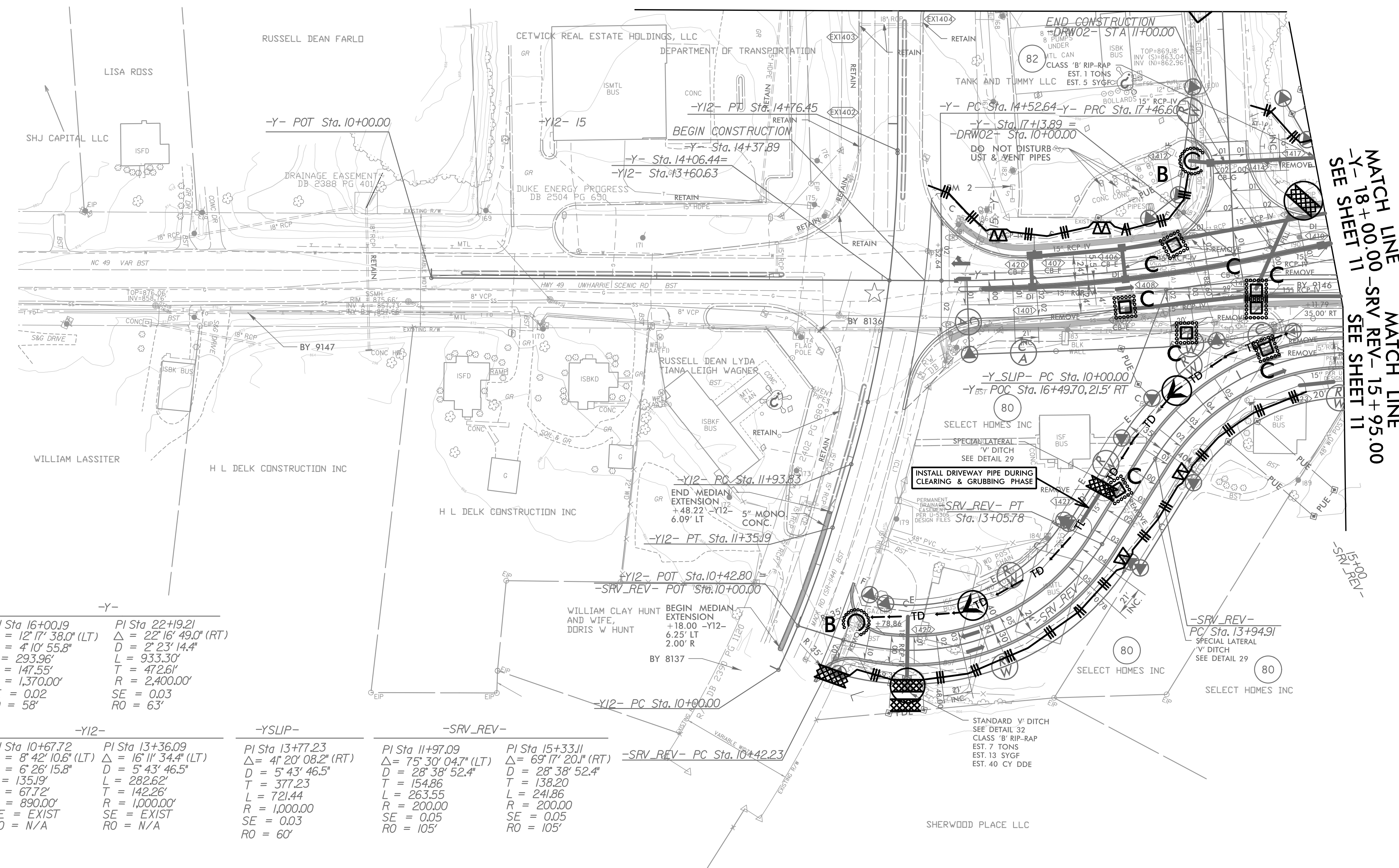
CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 14

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

NOTE:  
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF  
ROCK INLET SEDIMENT TRAP TYPE-C AS DIRECTED TO AVOID  
IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

NAD  
83/NA  
2011

MATCH LINE -Y12- 16+00  
SEE SHEET 10



-Y-	
PI Sta 16+00.19	PI Sta 22+19.21
$\Delta = 12' 17" 38.0"$ (LT)	$\Delta = 22' 16" 49.0"$ (RT)
D = 4' 10" 55.8"	D = 2' 23" 14.4"
L = 293.96'	L = 933.30'
T = 147.55'	T = 472.61'
R = 1,370.00'	R = 2,400.00'
SE = 0.02	SE = 0.03
RO = 58'	RO = 63'

-Y12-		-YSLIP-	
PI Sta 10+67.72	PI Sta 13+36.09	PI Sta 13+77.23	PI Sta 11+97.09
$\Delta = 8' 42" 10.6"$ (LT)	$\Delta = 16' 11" 34.4"$ (LT)	$\Delta = 4' 20" 08.2"$ (RT)	$\Delta = 75' 30" 04.7"$ (LT)
D = 6' 26" 15.8"	D = 5' 43" 46.5"	D = 5' 43" 46.5"	D = 28' 38" 52.4"
L = 135.19'	L = 282.62'	T = 377.23	T = 154.86
T = 67.72'	T = 142.26'	L = 721.44	L = 263.55
R = 890.00'	R = 1,000.00'	R = 1,000.00	R = 200.00
SE = EXIST	SE = EXIST	SE = 0.03	SE = 0.05
RO = N/A	RO = N/A	RO = 60'	RO = 105'

-SRV_REV-	
PI Sta 10+90.00	PI Sta 15+33.11
$\Delta = 69' 17" 20.1"$ (RT)	$\Delta = 69' 17" 20.1"$ (RT)
D = 28' 38" 52.4"	D = 28' 38" 52.4"
T = 138.20	T = 138.20
L = 241.86	L = 241.86
R = 200.00	R = 200.00
SE = 0.05	SE = 0.05
RO = 105'	RO = 105'

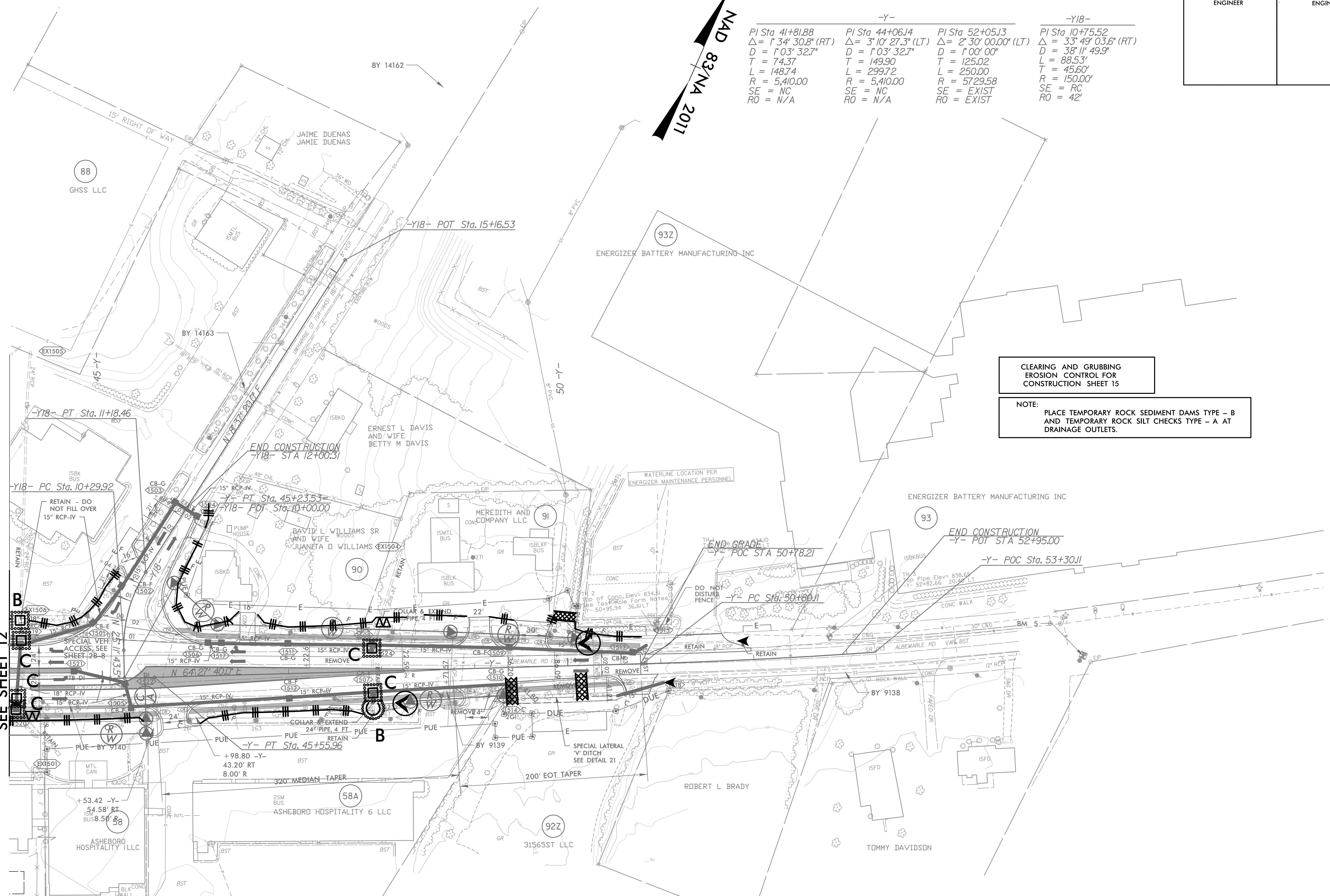
MATCH LINE  
-Y- 18+00.00 -SRV REV- 15+95.00  
SEE SHEET 11

PROJECT REFERENCE NO.	SHEET NO.
U-5813	EC-15/CONST.15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83 NA 2011

-Y-	-Y-	-Y-	-Y18-
PI Sta 41+81.88	PI Sta 44+06.14	PI Sta 52+05.13	PI Sta 10+75.52
$\Delta = 1' 34' 30.8" (RT)$	$\Delta = 3' 10' 27.3" (LT)$	$\Delta = 2' 30' 00.0" (LT)$	$\Delta = 33' 49' 03.6" (RT)$
$D = 1' 03' 32.7"$	$D = 1' 03' 32.7"$	$D = 1' 00' 00"$	$D = 38' 11' 49.9"$
$T = 74.37$	$T = 149.90$	$T = 125.02$	$L = 88.53'$
$L = 148.74$	$L = 299.72$	$L = 250.00$	$T = 45.60'$
$R = 5,410.00$	$R = 5,410.00$	$R = 5729.58$	$R = 150.00'$
$SE = NC$	$SE = NC$	$SE = EXIST$	$SE = RC$
$RO = N/A$	$RO = N/A$	$RO = EXIST$	$RO = 42'$

MATCH LINE -Y- 44+00  
SEE SHEET 12



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.

NOTE:  
1.) ALL DRIVEWAY RADII ARE 20' UNLESS OTHERWISE NOTED

8/17/99

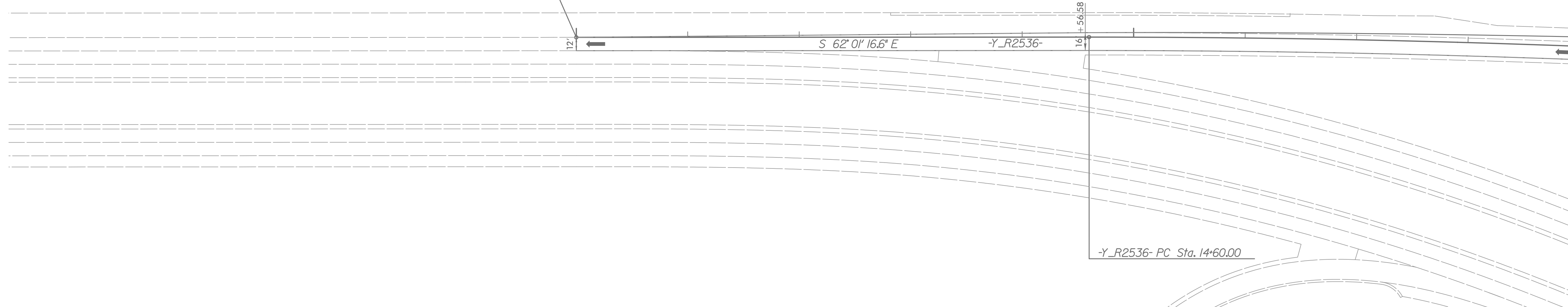
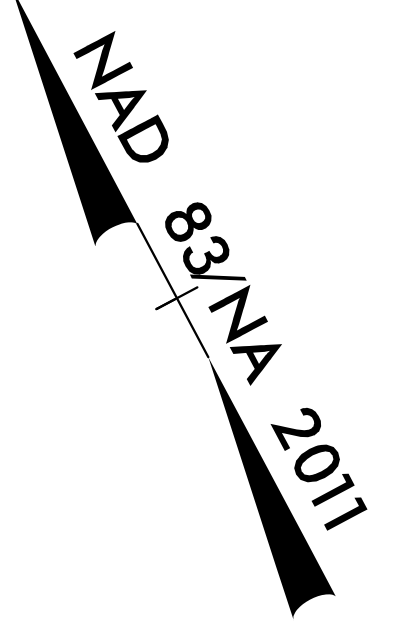


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Raleigh, North Carolina 27609  
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PROJECT REFERENCE NO.	SHEET NO.
U-5813	EC-16/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

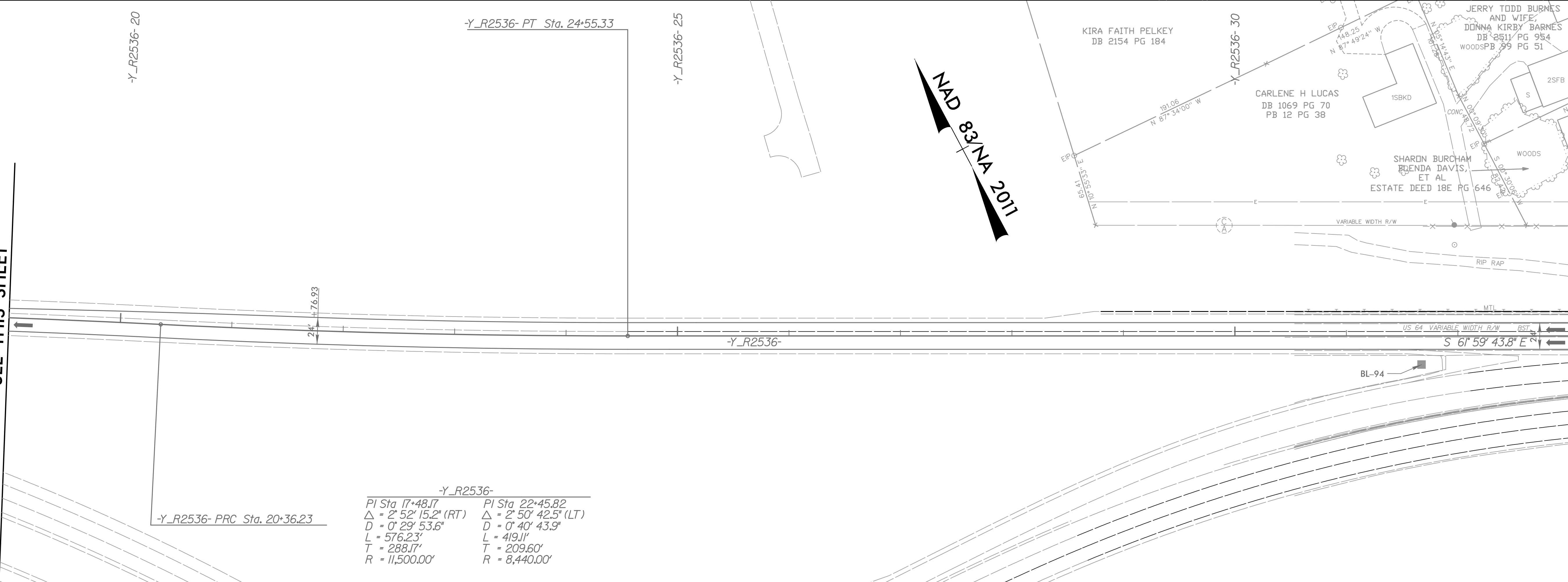
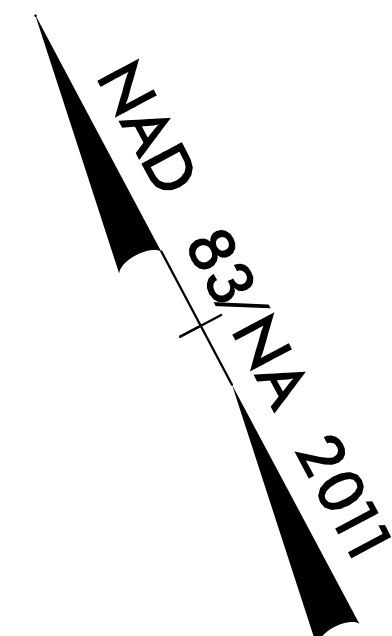
NOTE:  
CONSTRUCTION OF U-5813  
BEGINS AT -L- STA. 25+21.06

BEGIN RESURFACING  
-Y\_R2536- POT. Sta. 10+00.00



MATCH LINE -Y R2536- 19+00  
SEE THIS SHEET

MATCH LINE -Y R2536- 19+00  
SEE THIS SHEET



MATCH LINE -Y R2536- 33+00  
SEE SHEET 4A

11/9/2002  
U-5813.EC.PSH4.dgn  
HNTB

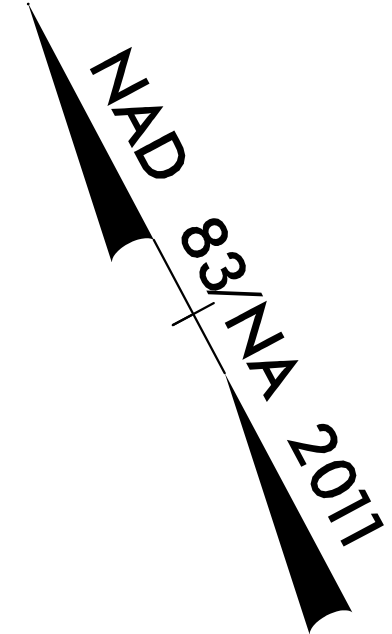
8/17/99



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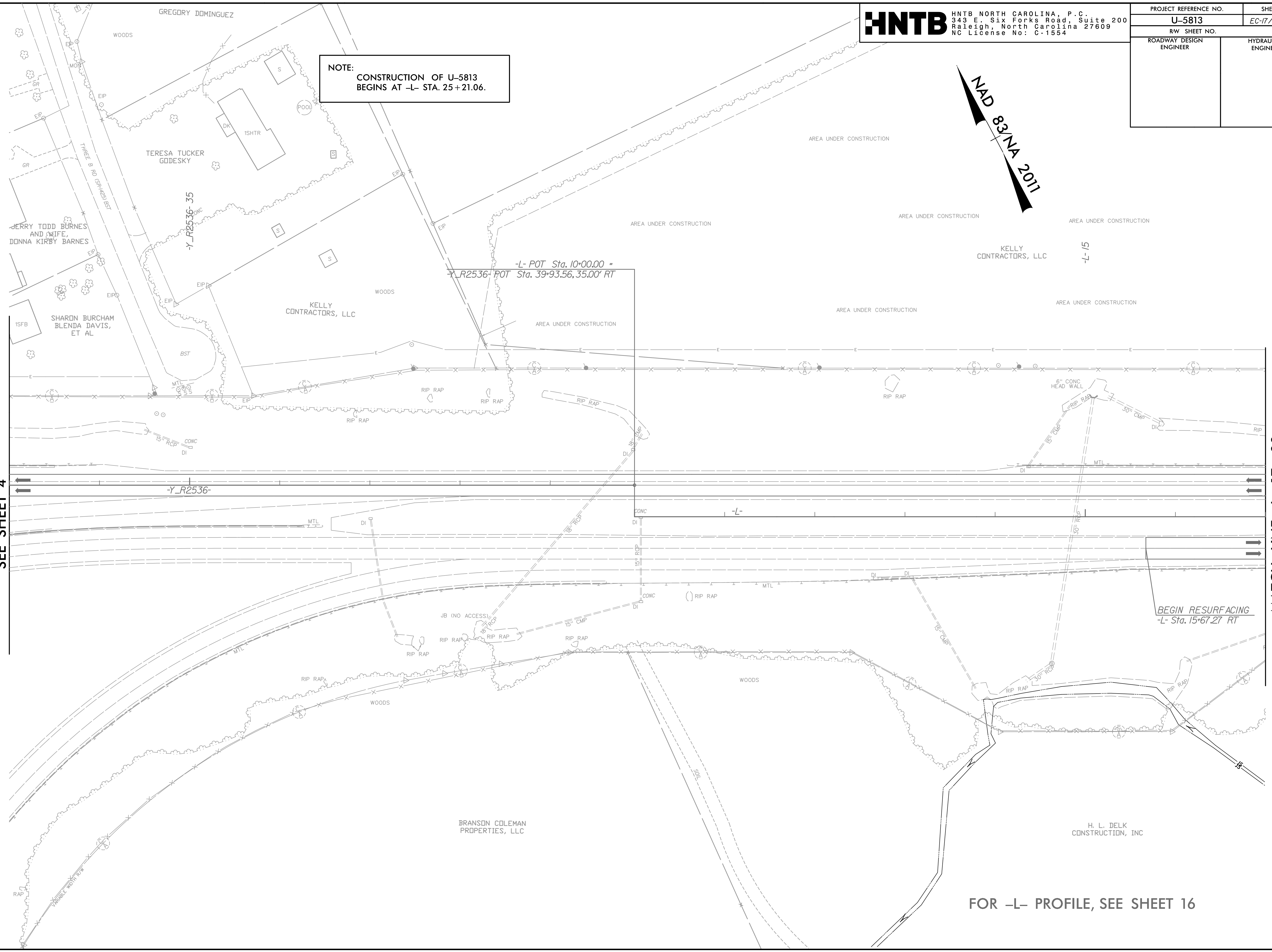
PROJECT REFERENCE NO.	SHEET NO.
U-5813	EC-17/CONST.4A
RW SHEET NO.	4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE:  
CONSTRUCTION OF U-5813  
BEGINS AT -L- STA. 25+21.06.



MATCH LINE -Y R2536- 33+00  
SEE SHEET 4

MATCH LINE -L- 17+00  
SEE SHEET 5



-L- POT Sta. 10+00.00 =  
-Y R2536- POT Sta. 39+93.56, 35.00' RT

-L- 15

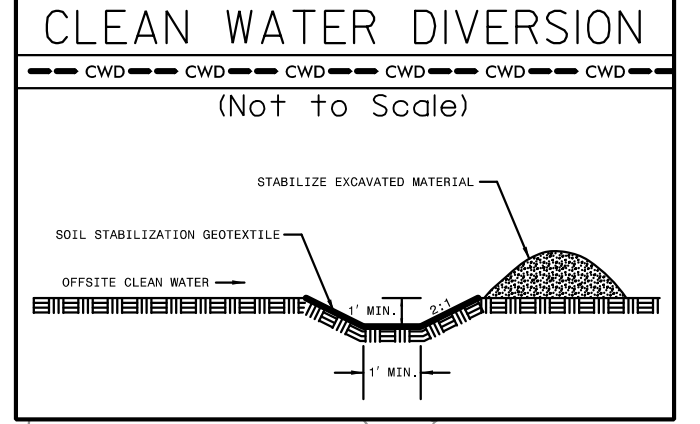
BEGIN RESURFACING  
-L- Sta. 15+67.27 RT

FOR -L- PROFILE, SEE SHEET 16

11/9/2022  
11/9/2022 EC\_PSH44.dgn  
HNTB

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP, TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

Place Matting for Erosion Control on Slope as Work Allows. -L- Sta. 25+50 RT to Sta. 30+50 RT



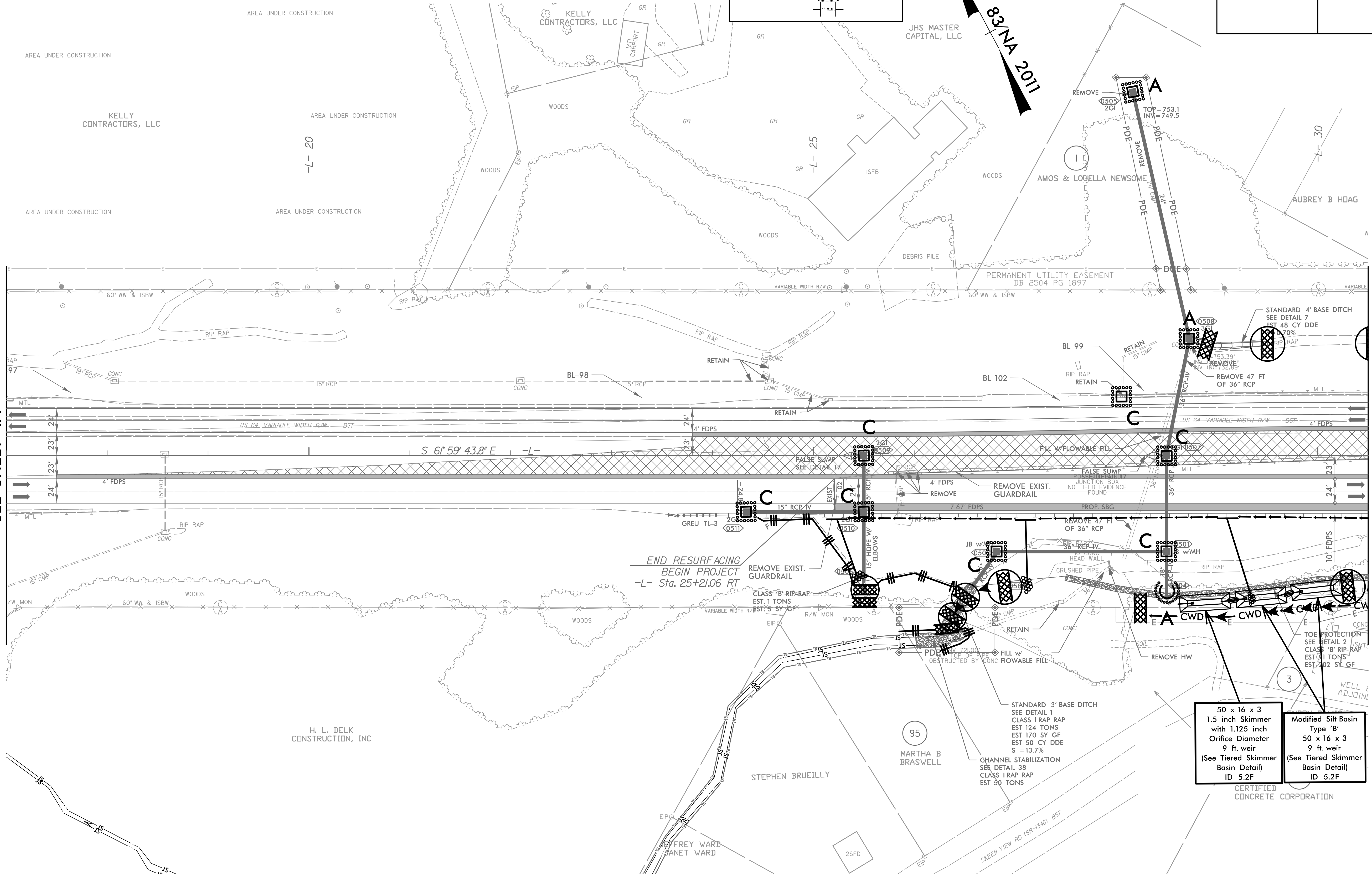
**HNTB** HNTB NORTH CAROLINA, P.C. 243 E. Six Forks Road, Suite 200 Raleigh, North Carolina 27609 NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
U-5813	EC-18/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

MATCH LINE -L- 17+00 SEE SHEET 4A

MATCH LINE -L- 30+50 SEE SHEET 6



50 x 16 x 3  
1.5 inch Skimmer  
with 1.125 inch  
Orifice Diameter  
9 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 5.2F

Modified Silt Basin  
Type 'B'  
50 x 16 x 3  
9 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 5.2F

CERTIFIED  
CONCRETE CORPORATION

FOR -L- PROFILE, SEE SHEET 16

PROJECT REFERENCE NO.	SHEET NO.
U-5813	EC-19/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

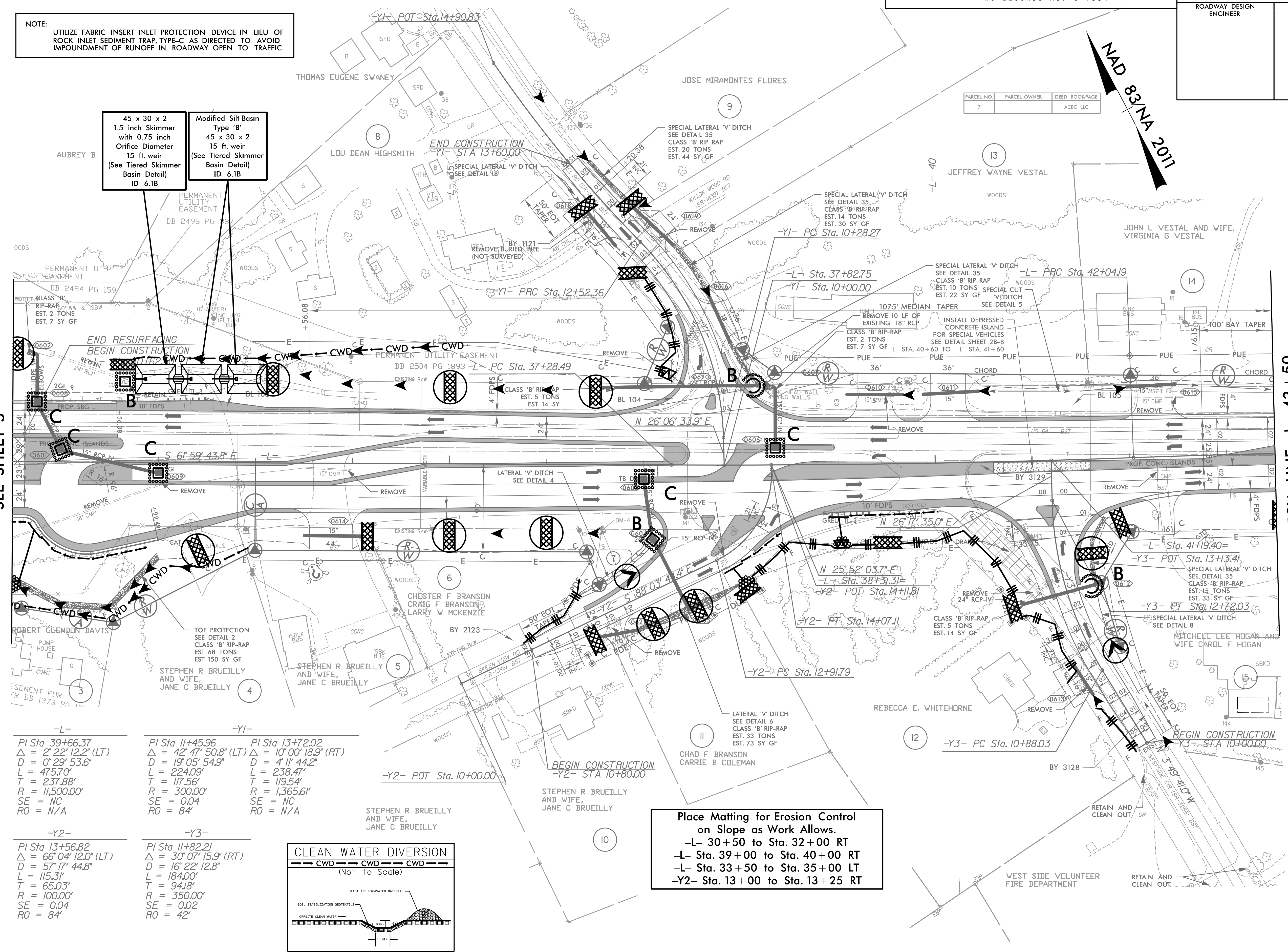
NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP, TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

45 x 30 x 2  
 1.5 inch Skimmer  
 with 0.75 inch  
 Orifice Diameter  
 15 ft. weir  
 (See Tiered Skimmer  
 Basin Detail)  
 ID 6.1B

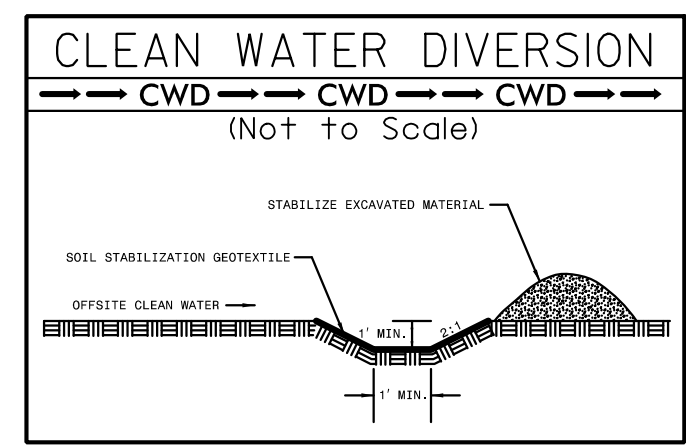
Modified Silt Basin  
 Type 'B'  
 45 x 30 x 2  
 15 ft. weir  
 (See Tiered Skimmer  
 Basin Detail)  
 ID 6.1B

MATCH LINE -L- 30+50  
 SEE SHEET 5

MATCH LINE -L- 43+50  
 SEE SHEET 7



-L-	-Y1-	-Y1-
PI Sta 39+66.37	PI Sta 11+45.96	PI Sta 13+72.02
$\Delta = 2' 22'' 12.2''$ (LT)	$\Delta = 42' 47'' 50.8''$ (LT)	$\Delta = 10' 00'' 18.9''$ (RT)
D = 0' 29' 53.6"	D = 19' 05' 54.9"	D = 4' 11' 44.2"
L = 475.70'	L = 224.09'	L = 238.47'
T = 237.88'	T = 117.56'	T = 119.54'
R = 11,500.00'	R = 300.00'	R = 1,365.61'
SE = NC	SE = 0.04	SE = NC
RO = N/A	RO = 84'	RO = N/A
-Y2-	-Y3-	
PI Sta 13+56.82	PI Sta 11+82.21	
$\Delta = 66' 04'' 12.0''$ (LT)	$\Delta = 30' 07'' 15.9''$ (RT)	
D = 57' 17' 44.8"	D = 16' 22' 12.8"	
L = 115.31'	L = 184.00'	
T = 65.03'	L = 94.18'	
R = 100.00'	R = 350.00'	
SE = 0.04	SE = 0.02	
RO = 84'	RO = 42'	



Place Matting for Erosion Control  
 on Slope as Work Allows.  
 -L- 30+50 to Sta. 32+00 RT  
 -L- Sta. 39+00 to Sta. 40+00 RT  
 -L- Sta. 33+50 to Sta. 35+00 LT  
 -Y2- Sta. 13+00 to Sta. 13+25 RT

NAD 83/NA 2011

PARCEL NO.	PARCEL OWNER	DEED BOOK/PAGE
7		ACBC LLC

8/17/99  
 10/19/2023 EC\_PSH6.dgn  
 HNTB



8/17/99

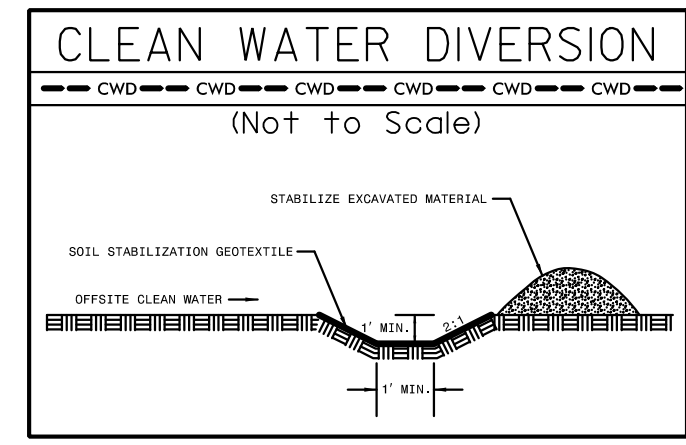
NOTE:  
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF  
ROCK INLET SEDIMENT TRAP, TYPE-C AS DIRECTED TO AVOID  
IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

**HNTB** HNTB NORTH CAROLINA, P.C.  
343 E. Six Forks Road, Suite 200  
Raleigh, North Carolina 27609  
NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
U-5813	EC-20/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE -L- 43 + 50  
SEE SHEET 6

MATCH LINE -L- 55 + 50  
SEE SHEET 8



Modified Silt Basin  
Type 'B'  
41 x 18 x 3  
6 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 7.3F

41 x 18 x 3  
1.5 inch Skimmer  
with 0.875 inch  
Orifice Diameter  
6 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 7.3F

73 x 25 x 2  
1.5 inch Skimmer  
with 1.25 inch  
Orifice Diameter  
7 ft. weir  
ID 7.4B

30 x 15 x 3  
1.5 inch Skimmer  
with 0.5 inch  
Orifice Diameter  
4 ft. weir  
ID 7.5B

55 x 15 x 2  
1.5 inch Skimmer  
with 0.5 inch  
Orifice Diameter  
4 ft. weir  
ID 7.8B

40 x 13 x 2  
1.5 inch Skimmer  
with 0.5 inch  
Orifice Diameter  
4 ft. weir  
ID 7.6B

Modified Silt Basin  
Type 'B'  
20 x 18 x 3  
4 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 7.7F

20 x 18 x 3  
1.5 inch Skimmer  
with 0.625 inch  
Orifice Diameter  
4 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 7.7F

-L-  
PI Sta 44+39.62  
 $\Delta = 2^{\circ} 20' 44.5''$  (RT)  
D = 0' 29' 53.6"  
L = 397.00'  
T = 235.44'  
SE = NC  
RO = N/A

PI Sta 48+89.54  
 $\Delta = 25^{\circ} 27' 53.2''$  (R)  
D = 25' 27' 53.2"  
L = 136.83'  
T = 70.60'  
SE = 225.00'  
RO = 84'

Place Matting for Erosion Control  
on Slope as Work Allows.

- L- Sta. 47+00 to Sta. 48+00 RT
- L- Sta. 50+50 to Sta. 51+00 RT
- L- Sta. 53+50 to Sta. 55+50 RT
- L- Sta. 53+50 to Sta. 54+50 LT
- Y4\_REV- Sta. 12+50 to Sta. 13+25 LT
- Y5- Sta. 12+75 to Sta. 13+25 RT
- Y5- Sta. 10+80 to Sta. 12+00 LT

10/10/2023 EC\_PSH7.dgn

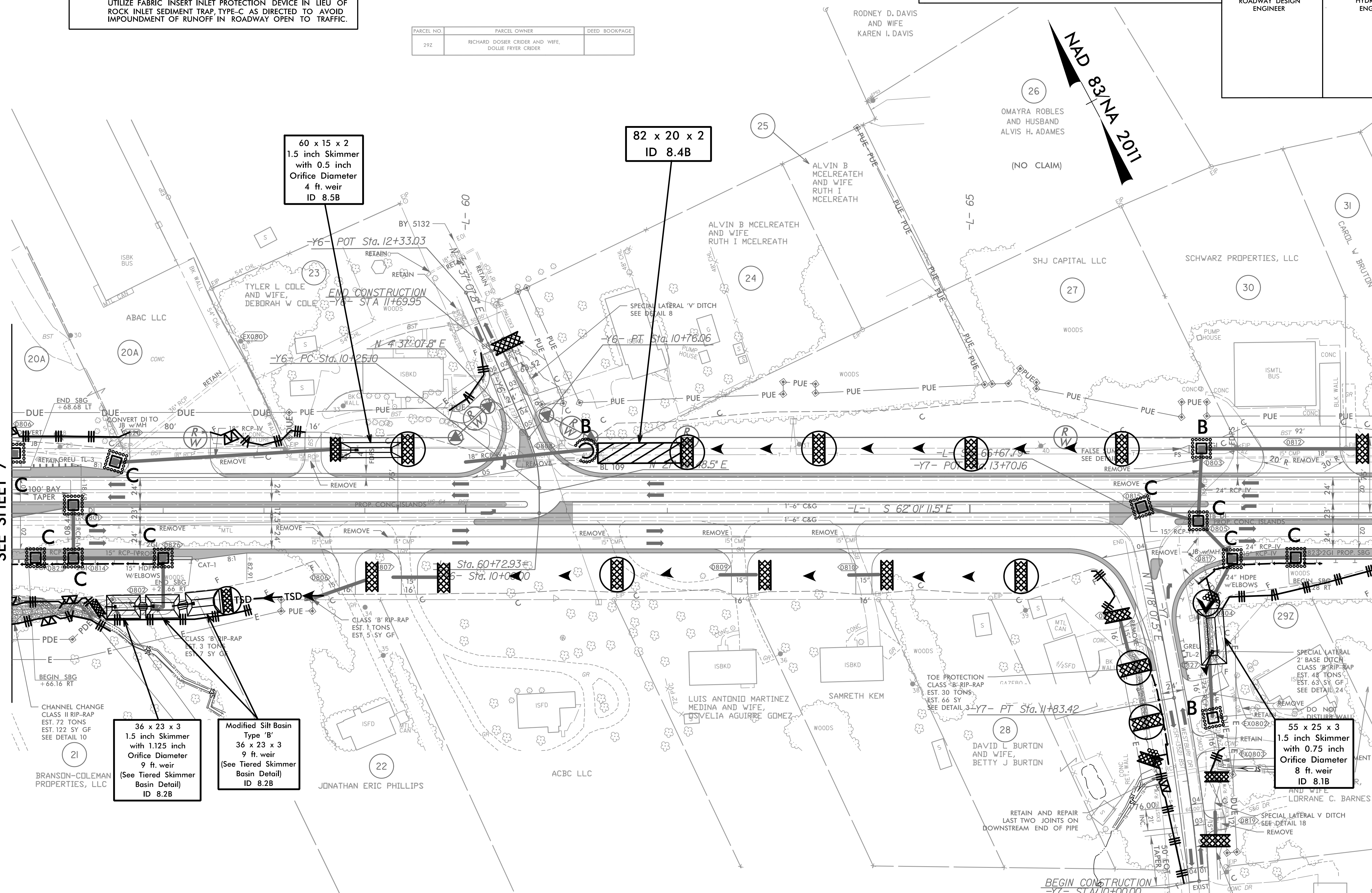
NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP, TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

PARCEL NO.	PARCEL OWNER	DEED BOOK/PAGE
292	RICHARD DOSIER CRIDER AND WIFE, DOLLIE FRYER CRIDER	

PROJECT REFERENCE NO.	SHEET NO.
U-5813	EC-21/CONST.8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH LINE -L- 55+50  
SEE SHEET 7

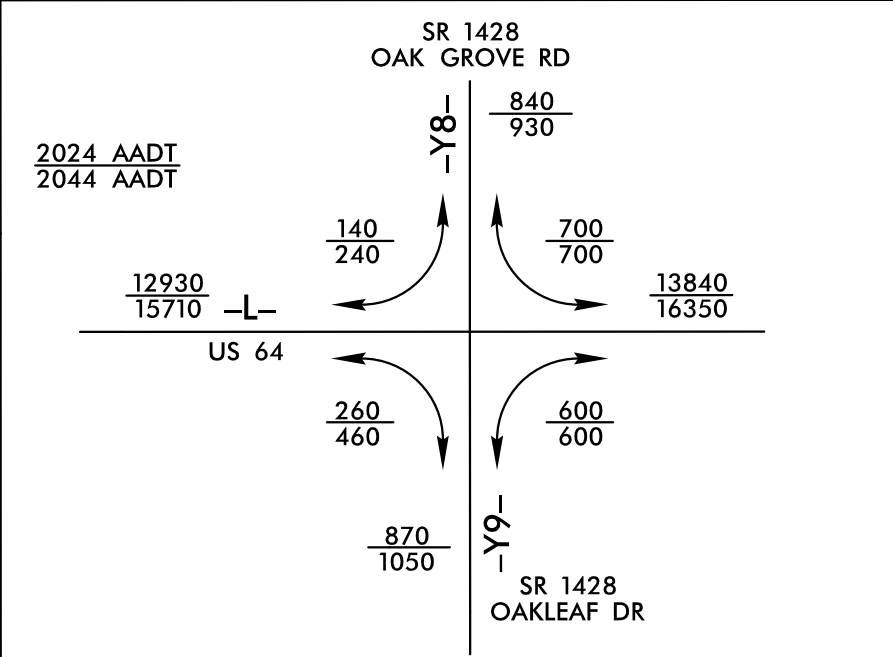
MATCH LINE -L- 69+00  
SEE SHEET 9



-Y6-	-Y7-
PI Sta 10+50.94	PI Sta 10+91.79
$\Delta = 23^{\circ} 21' 40.7''$ (LT)	$\Delta = 5^{\circ} 50' 18.0''$ (LT)
$D = 45^{\circ} 50' 11.8''$	$D = 3^{\circ} 10' 59.2''$
$L = 50.97'$	$L = 183.42'$
$T = 25.84'$	$T = 91.79'$
$R = 125.00'$	$R = 1,800'$
$SE = 0.05$	$SE = 0.04$
$RO = 105'$	$RO = 84'$

Place Matting for Erosion Control on Slope as Work Allows.

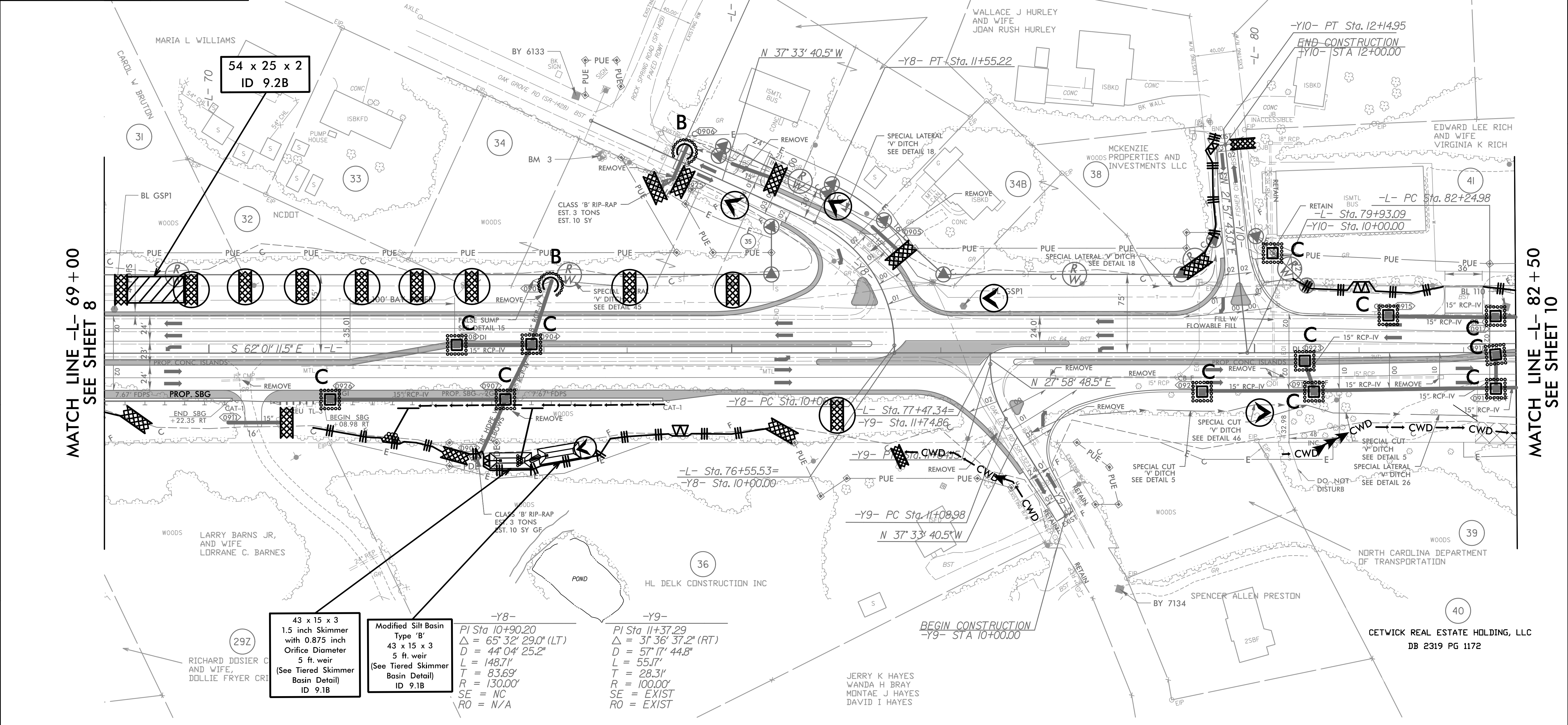
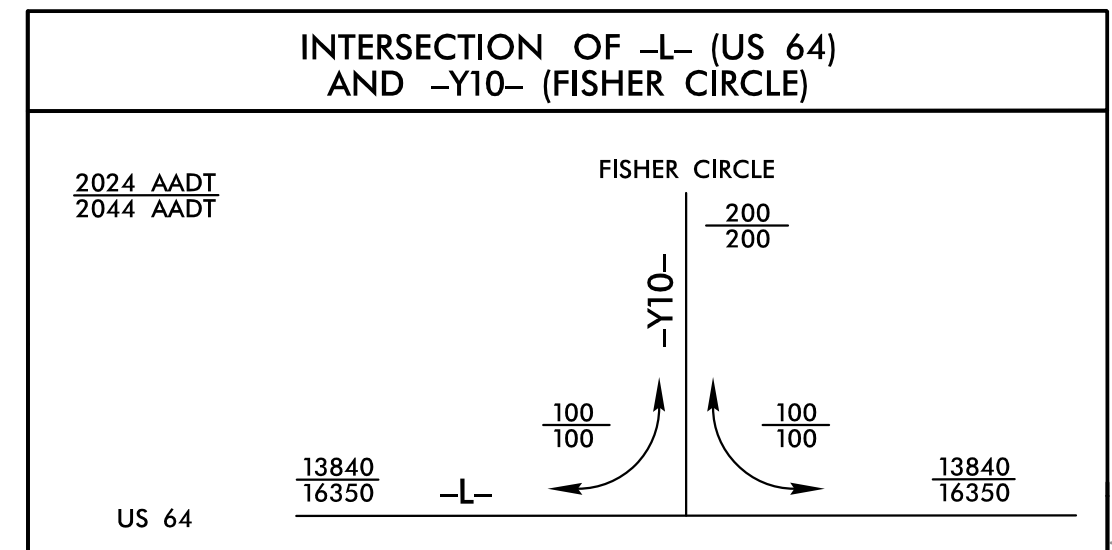
- L- Sta. 55+50 to Sta. 57+00 RT
- L- Sta. 67+25 to Sta. 69+00 RT
- L- Sta. 61+50 to Sta. 69+00 LT
- Y7- Sta. 12+00 to Sta. 13+00 RT



PARCEL NO.	PARCEL OWNER	DEED BOOK/PAGE
33	THE JESSE TATE LEONARD FAMILY TRUST TRUSTEES PHYLIS LEONARD MARTENS JESSE TATE LEONARD	
34/34B	MCKENZIE PROPERTIES AND INVESTMENTS, LLC	
35	ANDREW MARK SCHWARZ	

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP, TYPE-C, AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

PROJECT REFERENCE NO.	SHEET NO.
U-5813	EC-22/CONST.9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCH LINE -L- 69+00  
SEE SHEET 8

MATCH LINE -L- 82+50  
SEE SHEET 10

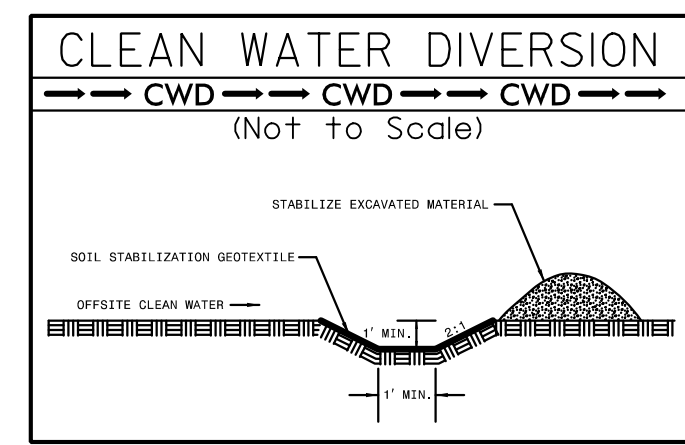
43 x 15 x 3  
1.5 inch Skimmer  
with 0.875 inch  
Orifice Diameter  
5 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 9.1B

Modified Silt Basin  
Type 'B'  
43 x 15 x 3  
5 ft. weir  
(See Tiered Skimmer  
Basin Detail)  
ID 9.1B

-Y8-  
PI Sta 10+90.20  
 $\Delta = 65' 32'' 29.0''$  (LT)  
 $D = 44' 04'' 25.2''$   
 $L = 148.71'$   
 $T = 83.69'$   
 $R = 130.00'$   
SE = NC  
RO = N/A

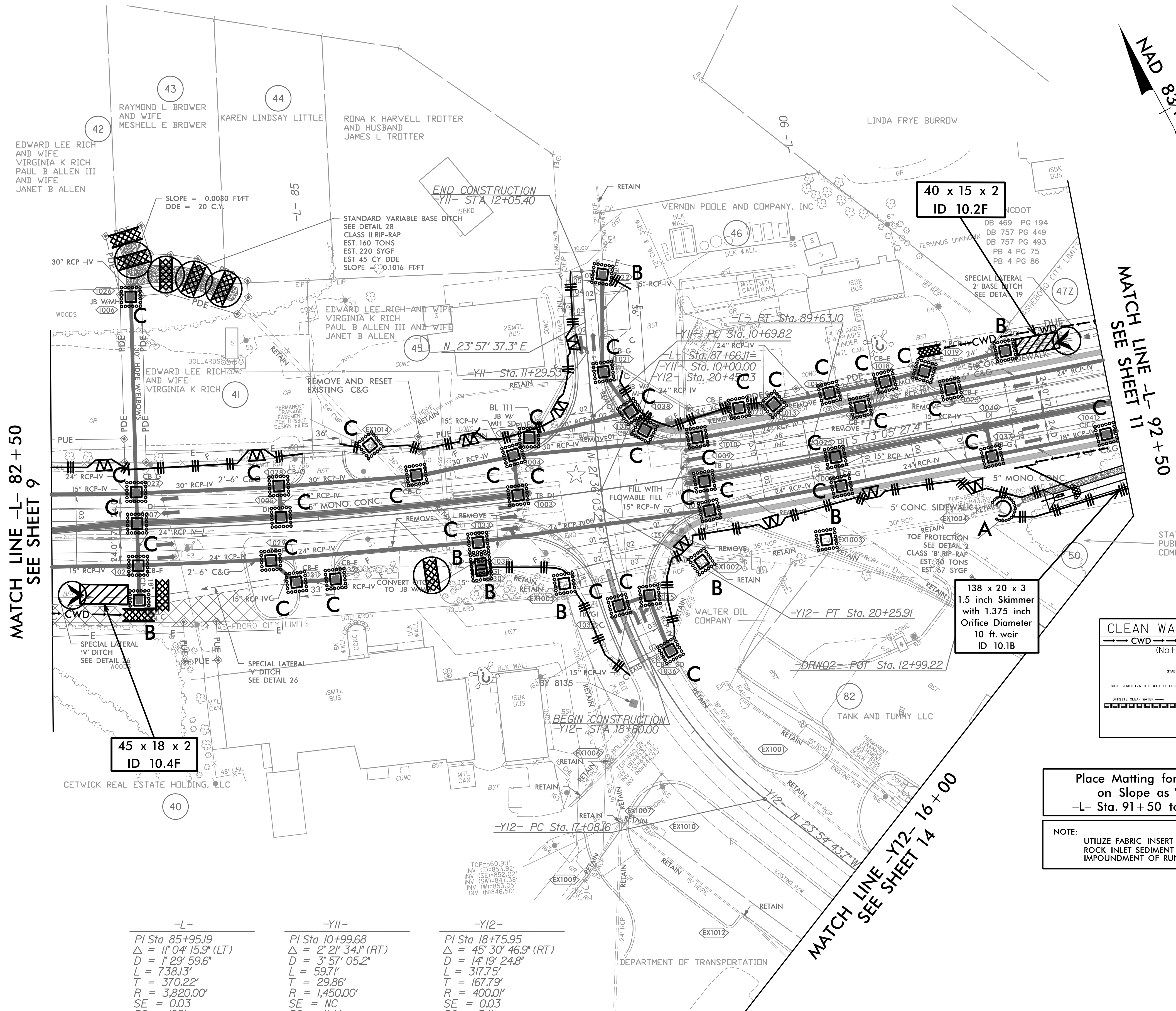
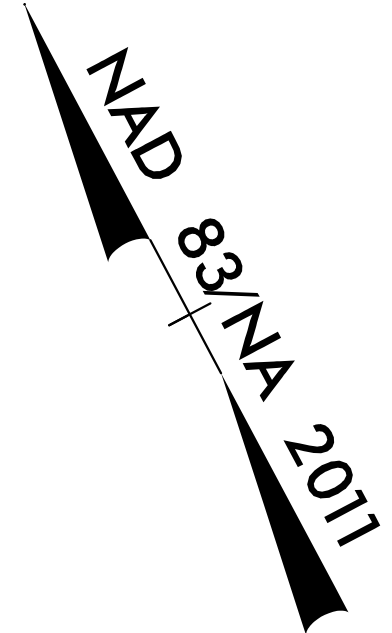
-Y9-  
PI Sta 11+37.29  
 $\Delta = 31' 36'' 37.2''$  (RT)  
 $D = 57' 17'' 44.8''$   
 $L = 55.17'$   
 $T = 28.31'$   
 $R = 100.00'$   
SE = EXIST  
RO = EXIST

Place Matting for Erosion Control  
on Slope as Work Allows.  
-L- Sta. 71+50 to Sta. 74+50 RT  
-L- Sta. 79+50 to Sta. 80+50 RT  
-L- Sta. 69+00 to Sta. 73+00 LT  
-Y9- Sta. 11+00 to Sta. 11+25 LT



FOR -L-, -Y8-, -Y9-, & -Y10-  
DIMENSIONS, SEE SHEET 2B-2  
FOR -L- PROFILE, SEE SHEET 18  
FOR -Y8- PROFILE, SEE SHEET 24  
FOR -Y9-, -Y10- PROFILES, SEE SHEET 25

PROJECT REFERENCE NO.	SHEET NO.
U-5813	EC-23/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCH LINE -L- 82 + 50  
SEE SHEET 9

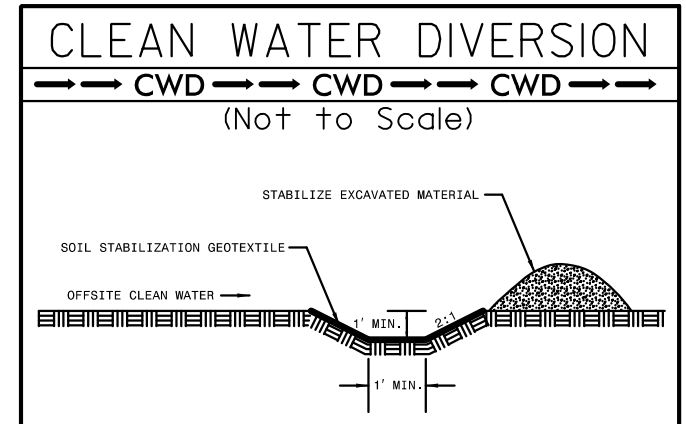
MATCH LINE -L- 92 + 50  
SEE SHEET 11

MATCH LINE -Y12- 16 + 00  
SEE SHEET 14

45 x 18 x 2  
ID 10.4F

40 x 15 x 2  
ID 10.2F

138 x 20 x 3  
1.5 inch Skimmer  
with 1.375 inch  
Orifice Diameter  
10 ft. weir  
ID 10.1B



Place Matting for Erosion Control  
on Slope as Work Allows.  
-L- Sta. 91+50 to Sta. 92+00 RT

NOTE:  
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF  
ROCK INLET SEDIMENT TRAP TYPE-C AS DIRECTED TO AVOID  
IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

-L-	-Y11-	-Y12-
PI Sta 85+95.19	PI Sta 10+99.68	PI Sta 18+75.95
Δ = 11' 04" 15.9" (LT)	Δ = 2' 21" 34.1" (RT)	Δ = 45' 30" 46.9" (RT)
D = 1' 29" 59.6"	D = 3' 57" 05.2"	D = 14' 19" 24.8"
L = 738.13'	L = 59.71'	L = 317.75'
T = 370.22'	T = 29.86'	T = 167.79'
R = 3,820.00'	R = 1,450.00'	R = 400.01'
SE = 0.03	SE = NC	SE = 0.03
RO = 108'	RO = N/A	RO = 54'