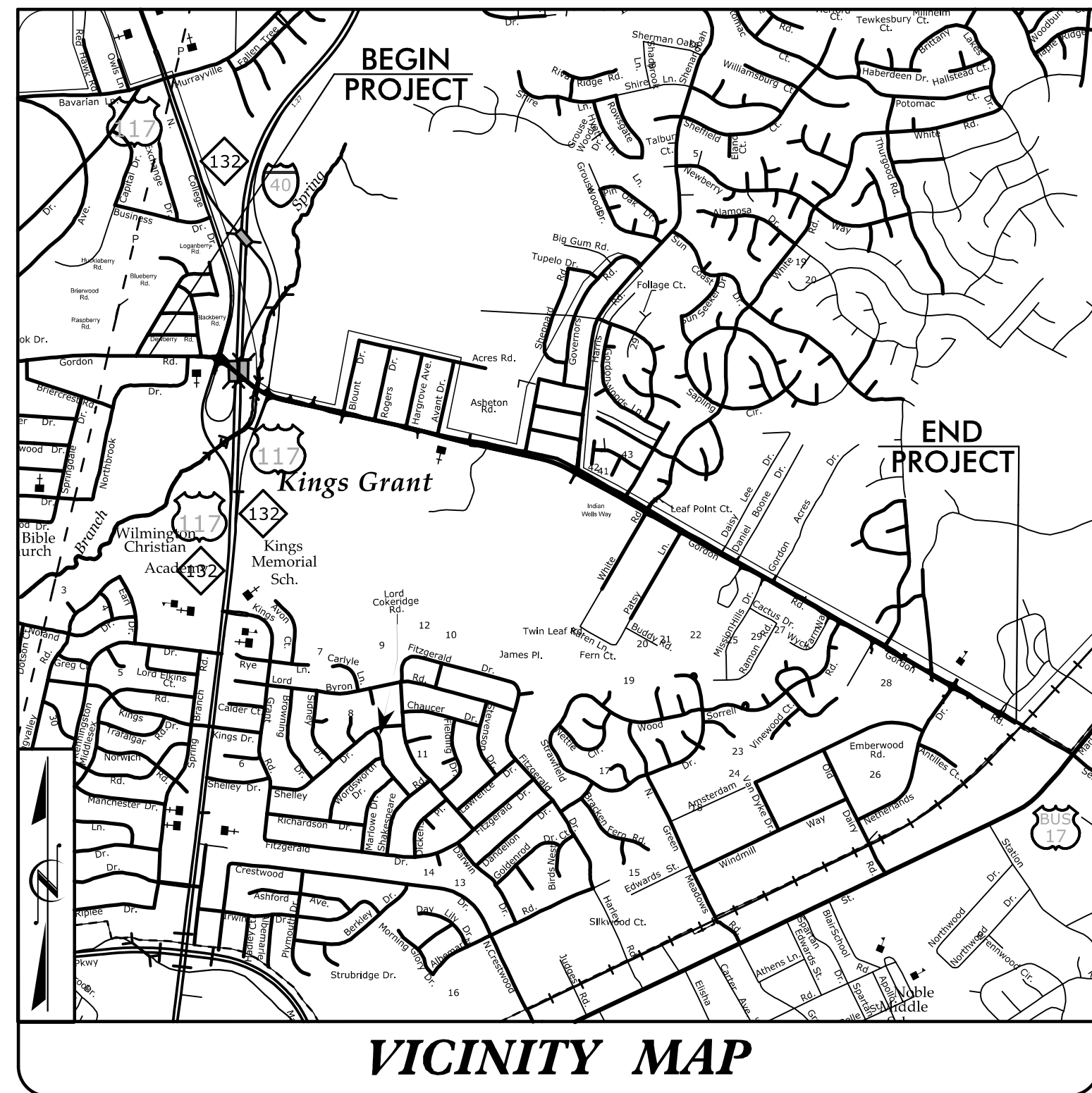


TIP PROJECT: U-6202



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

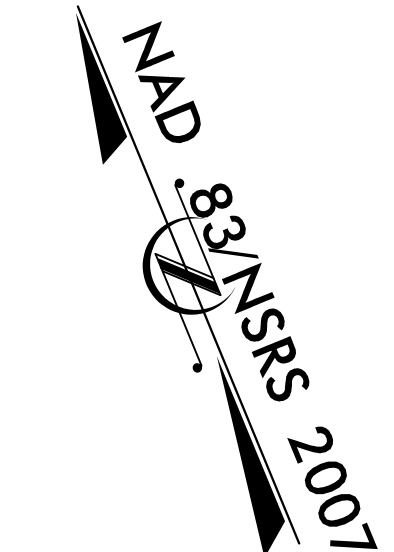
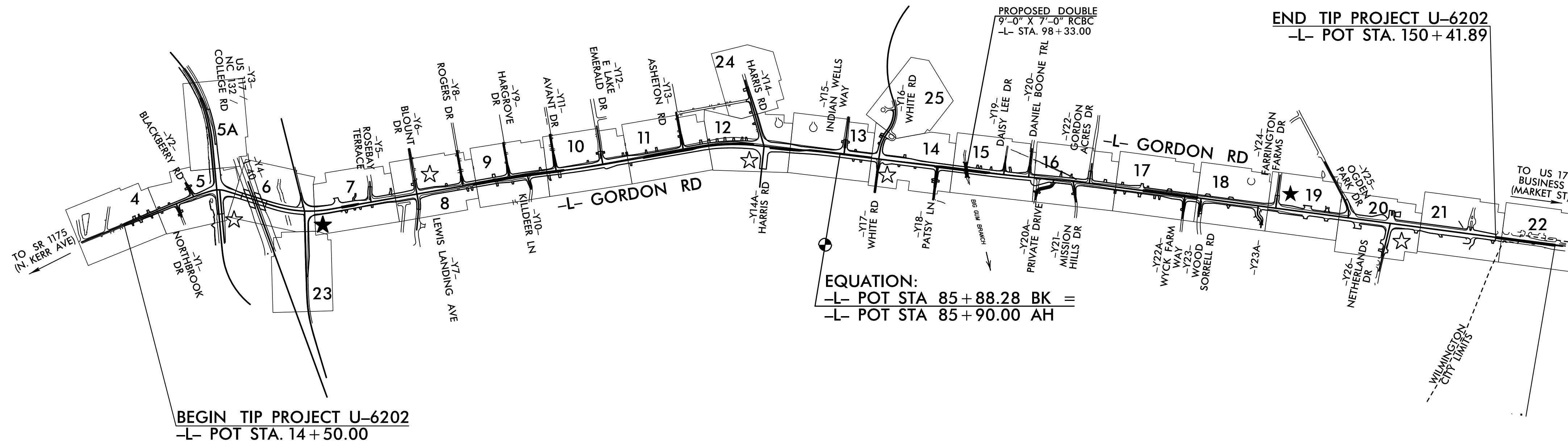
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

NEW HANOVER COUNTY

**LOCATION: SR 2048 (GORDON ROAD) FROM
WEST OF INTERSTATE-40 TO
WEST OF US 17 BUS (MARKET STREET)**

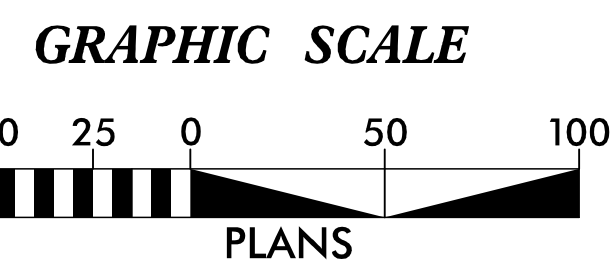
TYPE OF WORK: GRADING, DRAINAGE, PAVING, CULVERT, AND SIGNALS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-6202	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	



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

THE OUTSIDE BUFFER, WETLAND, OR WATER BOUNDARY SHALL BE CLEARLY MARKED BY HIGHLY VISIBLE FENCING (ORANGE SAFETY FENCE)



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-01000 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-15554
FOR NCDOT DIVISION 3

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

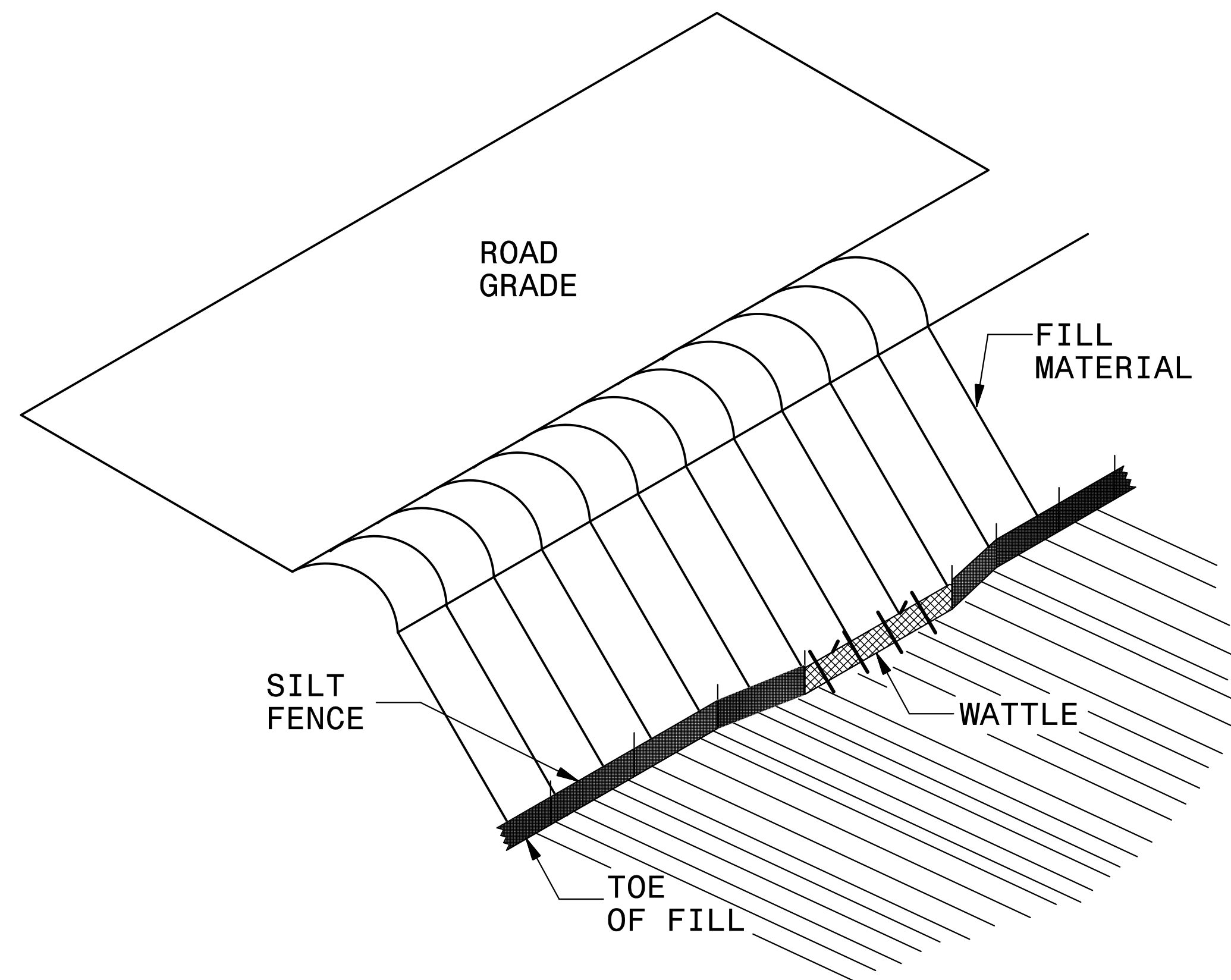
PROJECT REFERENCE NO. U-6202	SHEET NO. EC-2
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

EROSION & SEDIMENT CONTROL LEGEND

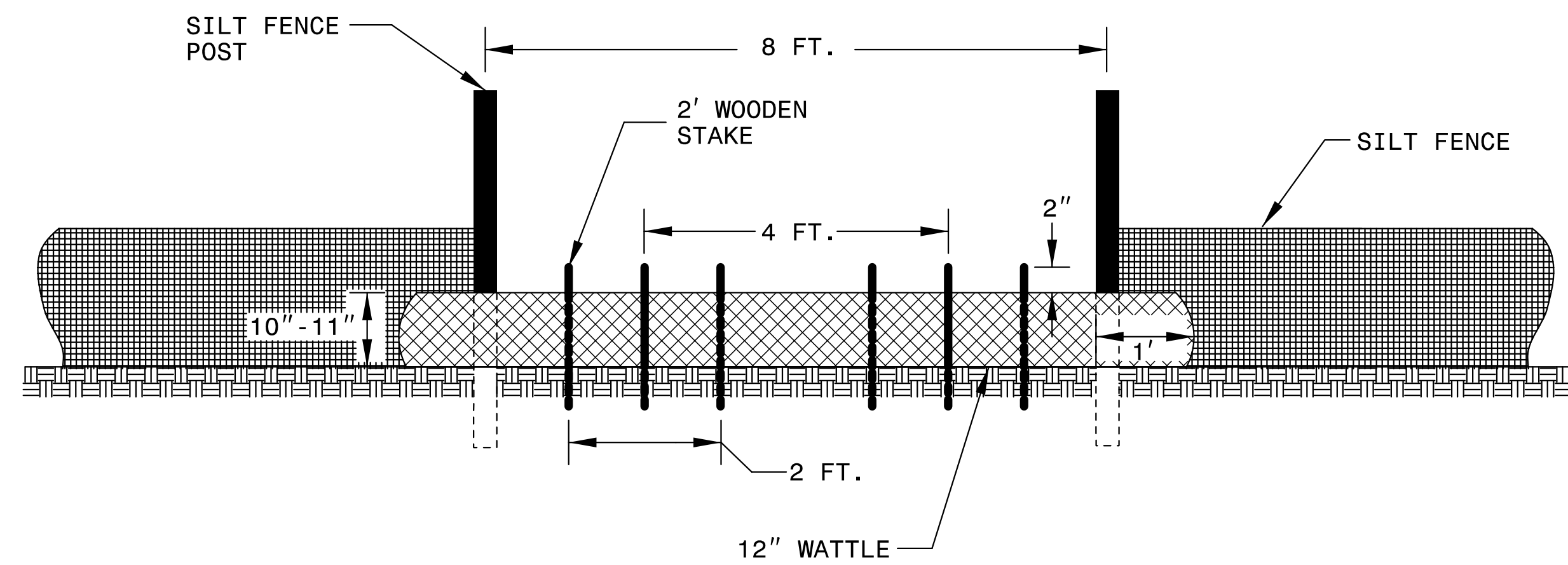
Std. #	Description	Symbol	Std. #	Description	Symbol
1605.01	Temporary Silt Fence		1633.01	Temporary Rock Silt Check Type A	
1606.01	Special Sediment Control Fence		1633.02	Temporary Rock Silt Check Type B	
1622.01	Temporary Berms and Slope Drains		1633.03	Temporary Rock Silt Check Type A with Excelsior 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				

SILT FENCE COIR FIBER WATTLE BREAK DETAIL

PROJECT REFERENCE NO. <i>U-6202</i>	SHEET NO. <i>EC-2A</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



ISOMETRIC VIEW

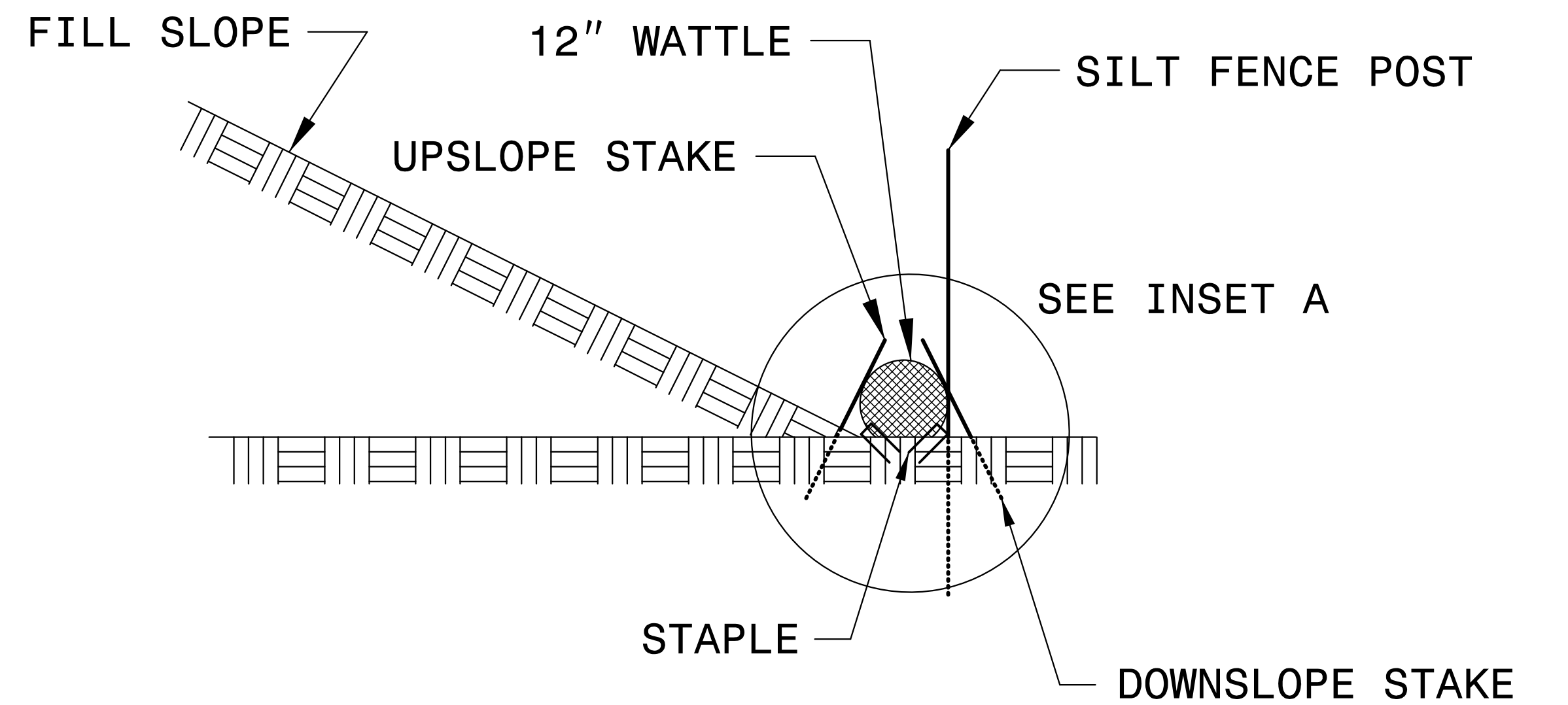
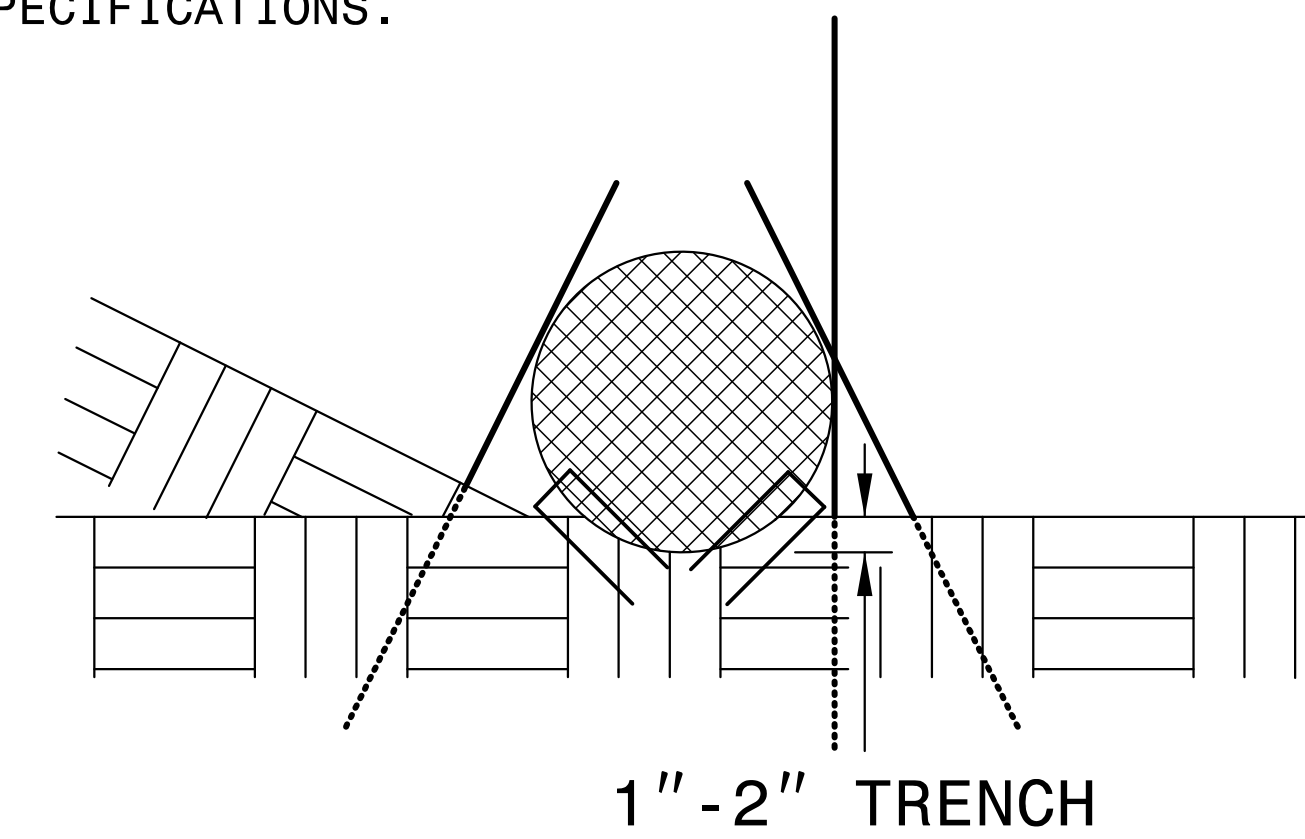


VIEW FROM SLOPE

NOTES:

- USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE AND LENGTH OF 10 FT.
- EXCAVATE A 1 TO 2 INCH TRENCH FOR WATTLE TO BE PLACED.
- DO NOT PLACE WATTLE ON TOE OF SLOPE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
- INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.
- PROVIDE STAPLES MADE OF 11 GAUGE 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.

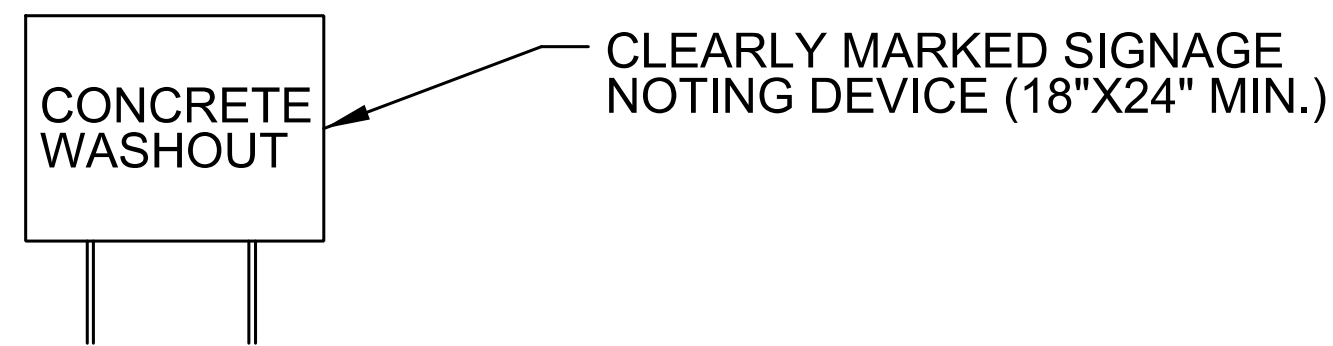
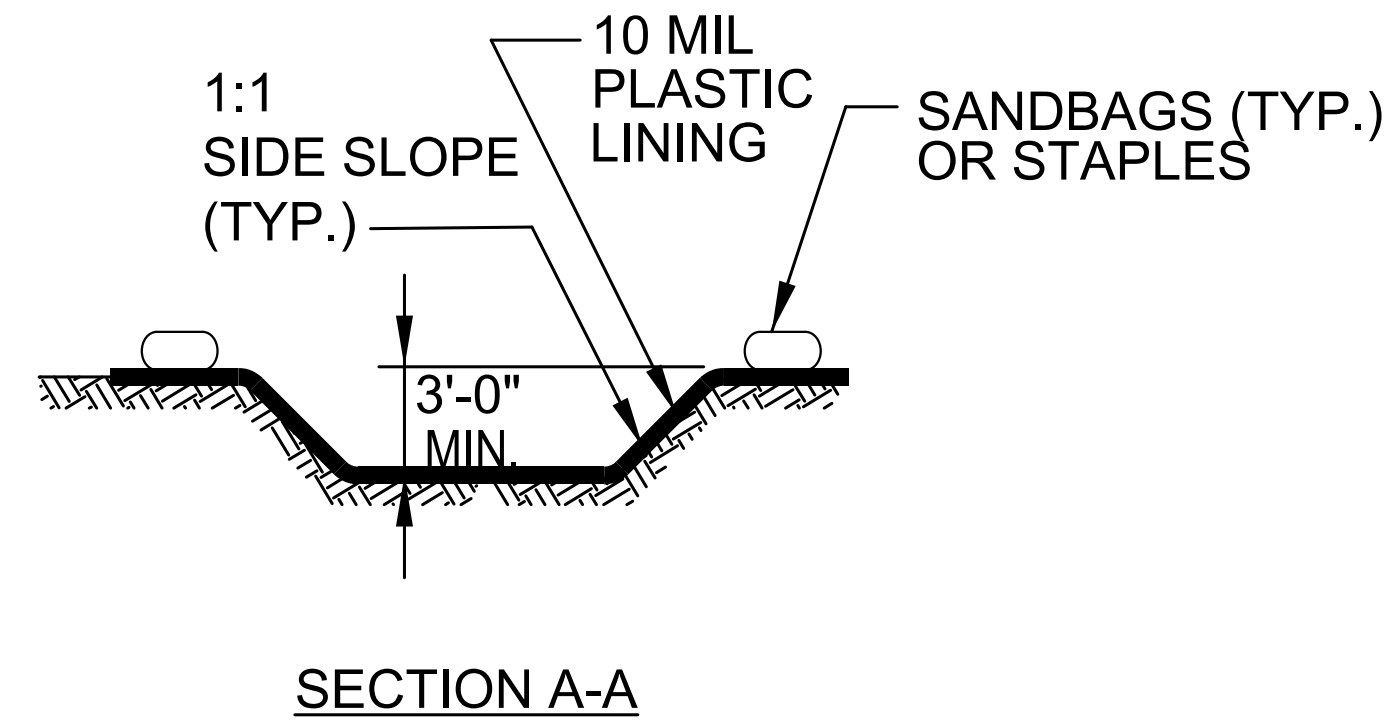
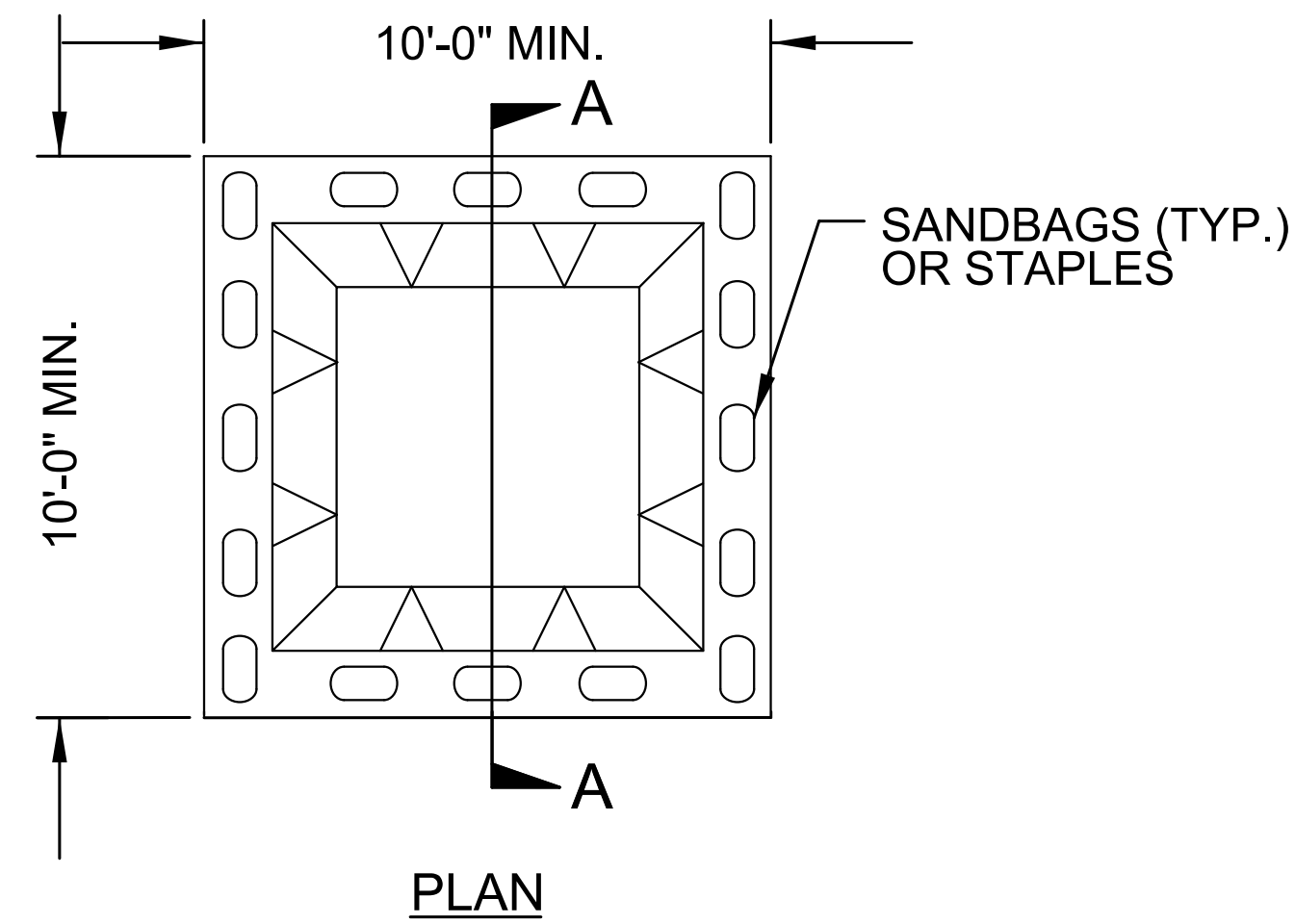
INSET A



SIDE VIEW

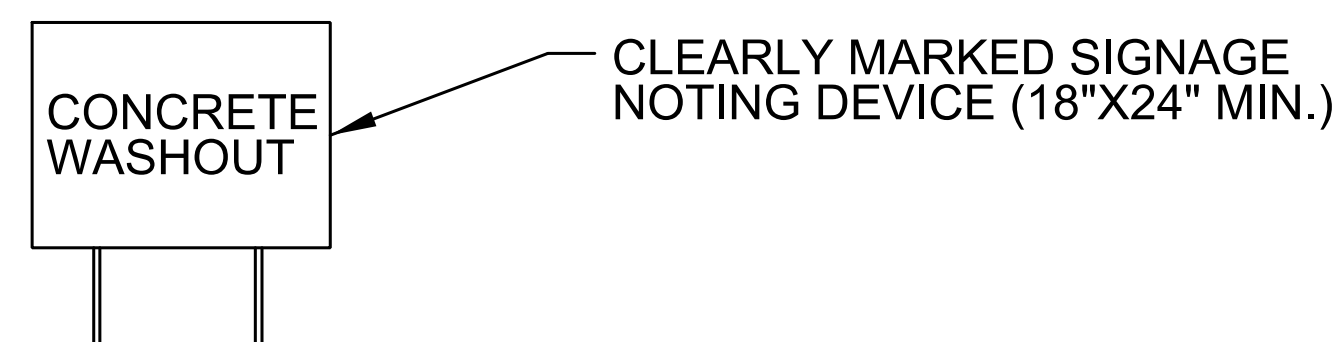
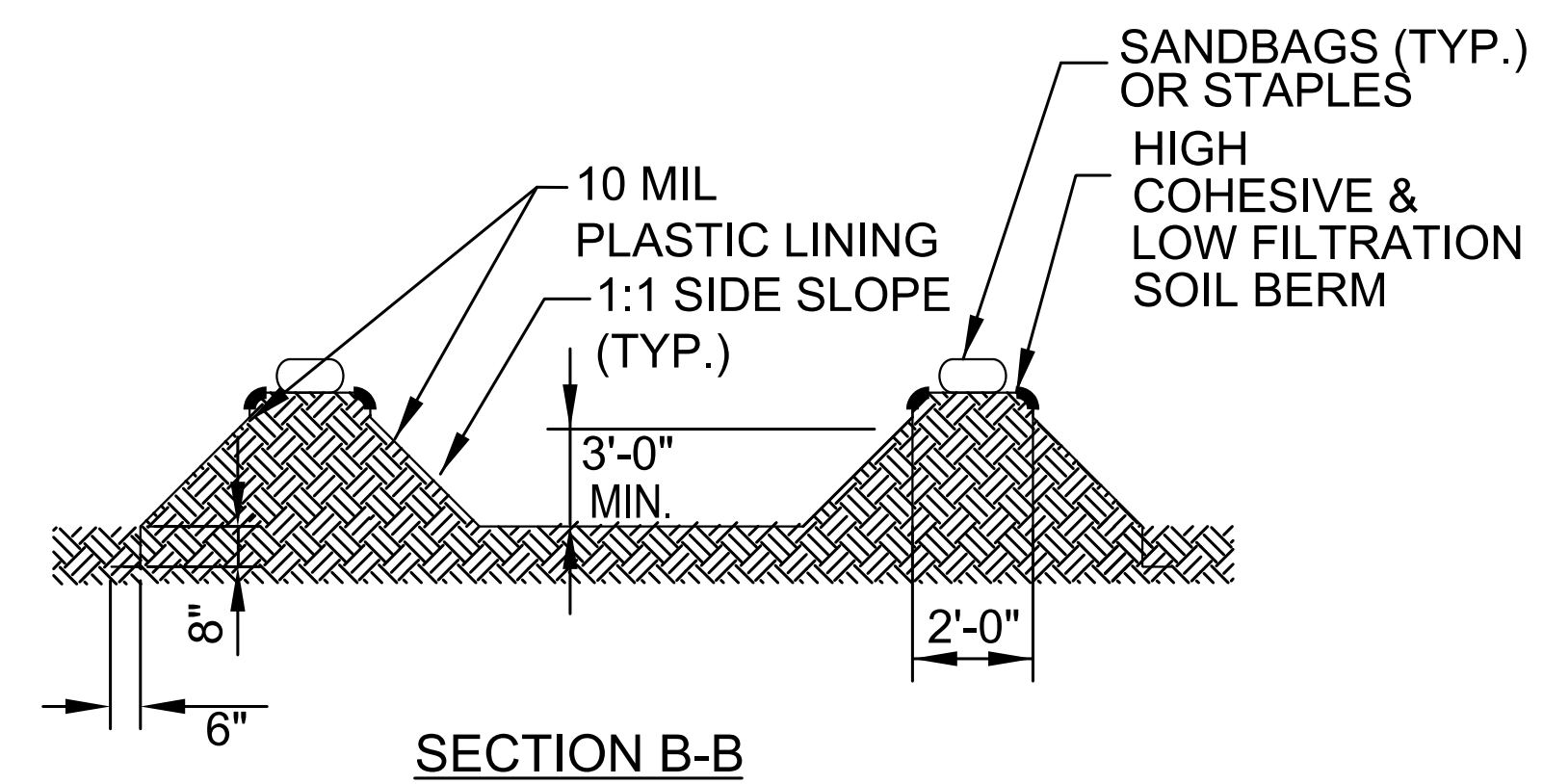
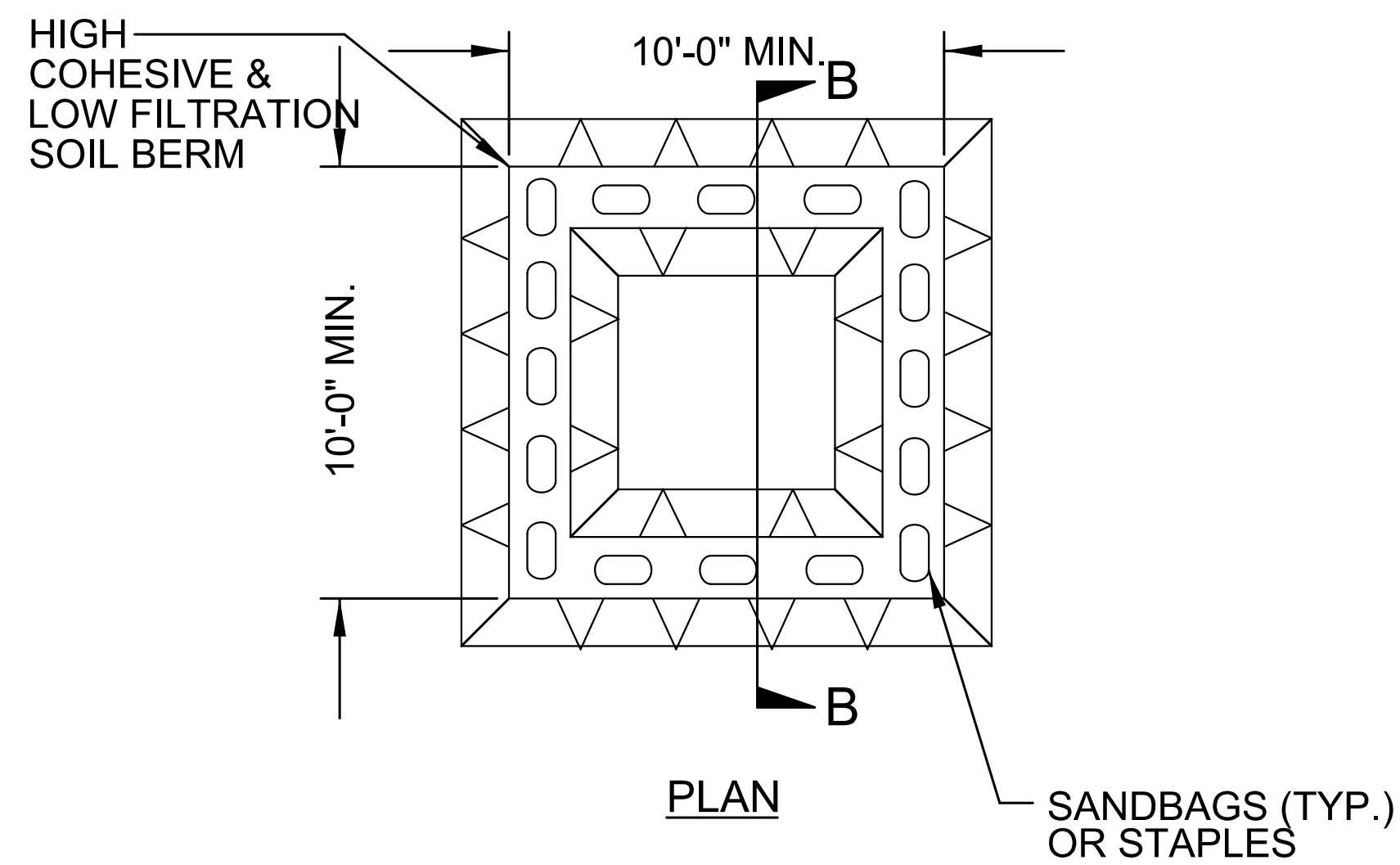
PROJECT REFERENCE NO. <i>U-6202</i>	SHEET NO. <i>EC-2B</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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.

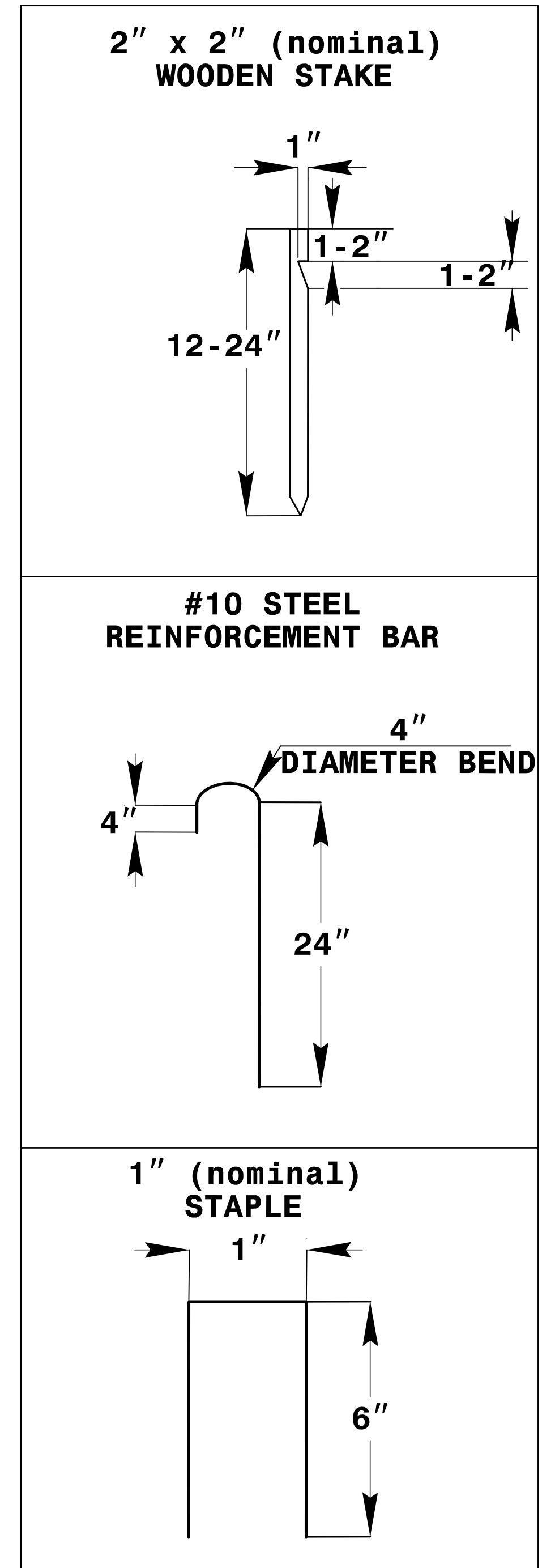
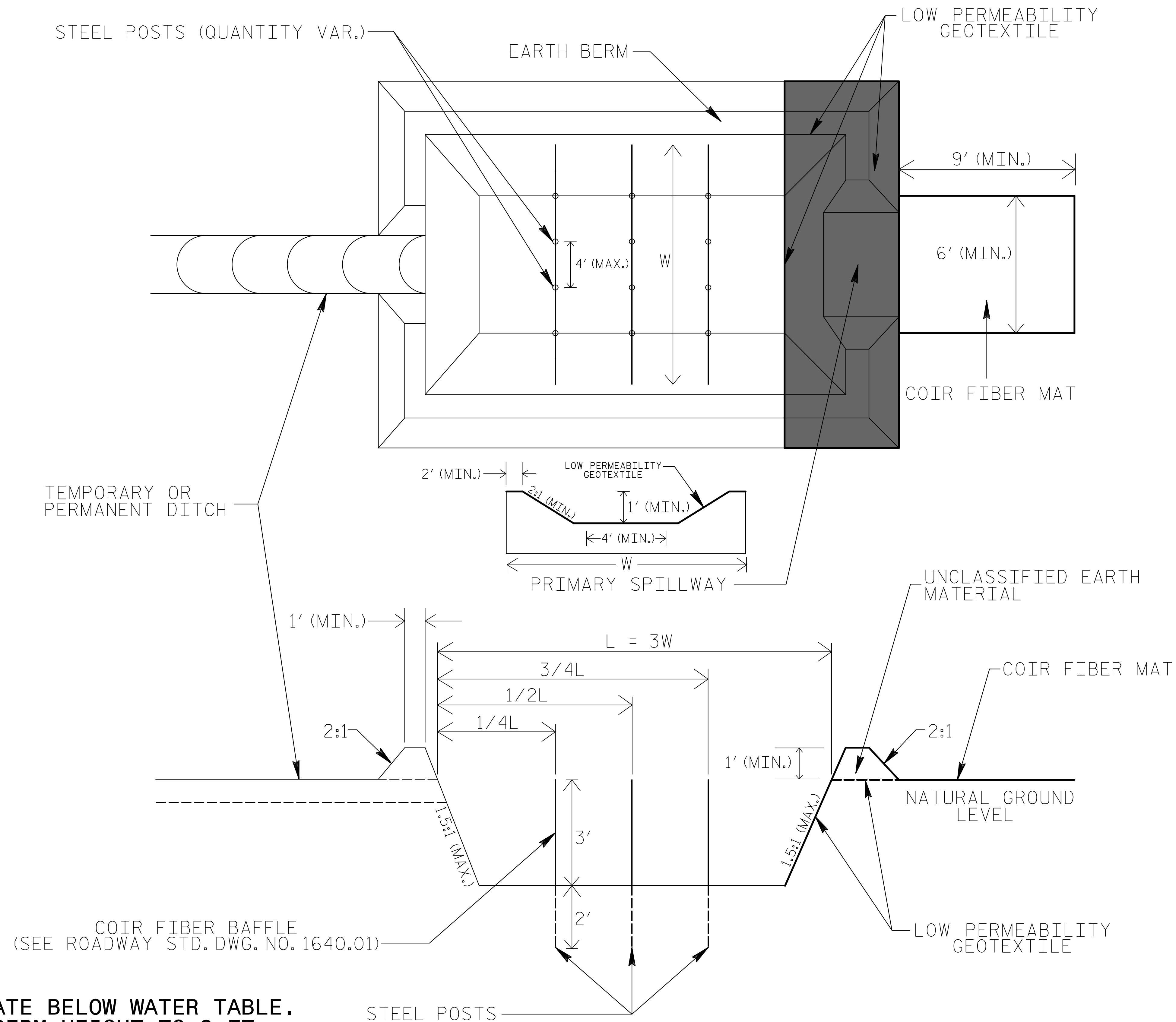


ABOVE GRADE WASHOUT STRUCTURE
NOT TO SCALE

- 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.

INFILTRATION BASIN WITH BAFFLES DETAIL

PROJECT REFERENCE NO. <i>U-6202</i>	SHEET NO. <i>EC-2C</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



COIR FIBER MAT ANCHOR OPTIONS

NOTES

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

NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>U-6202</i>	SHEET NO. <i>EC-3A</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION TIMEFRAMES

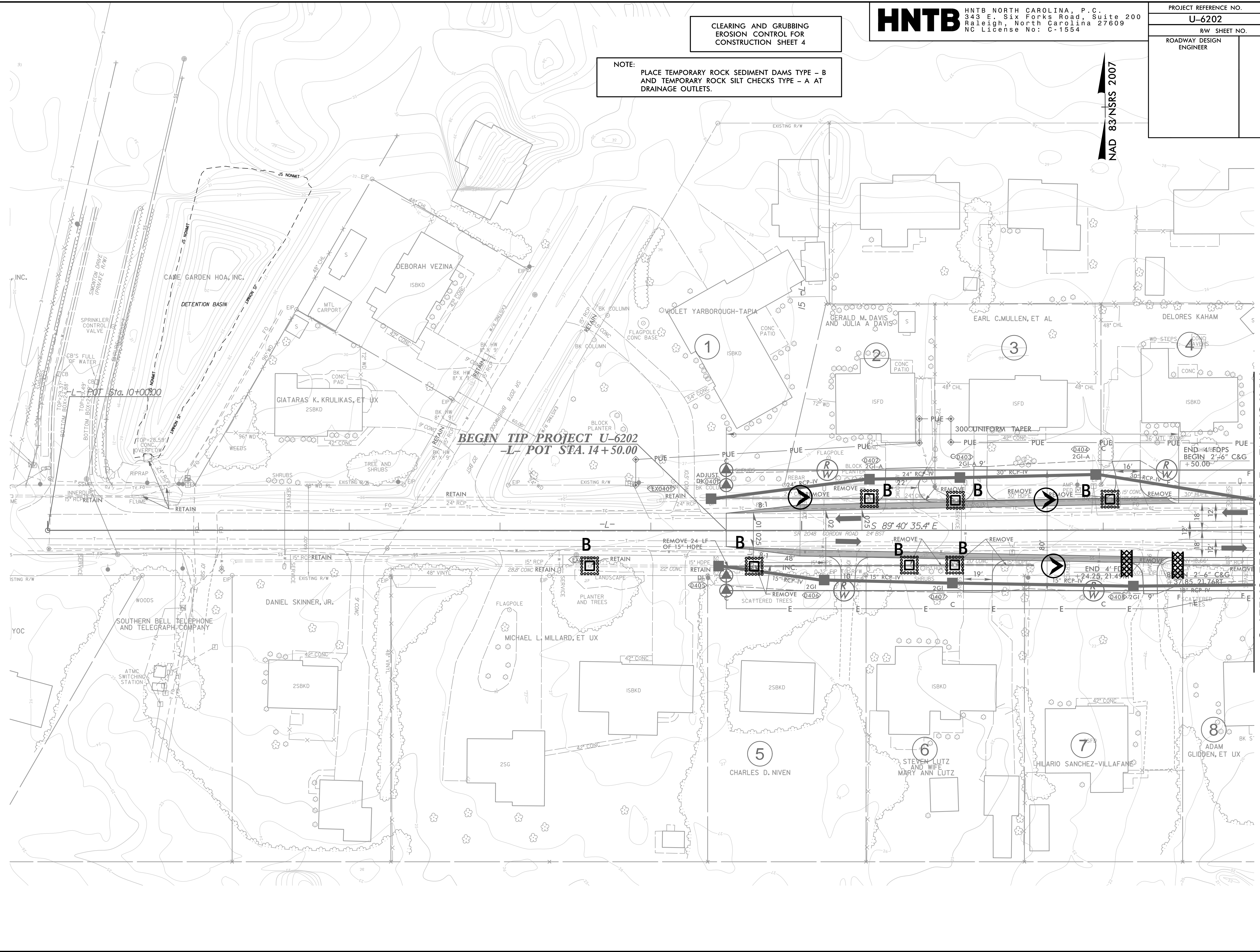
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 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.
U-6202	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.

NAD 83/NSRS 2007

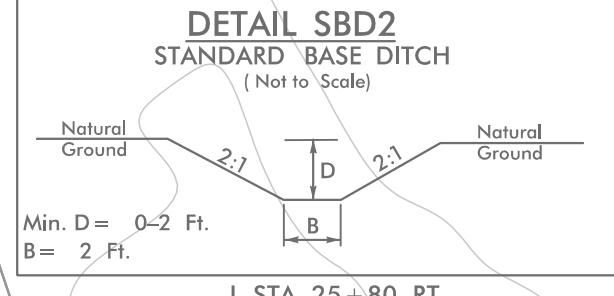
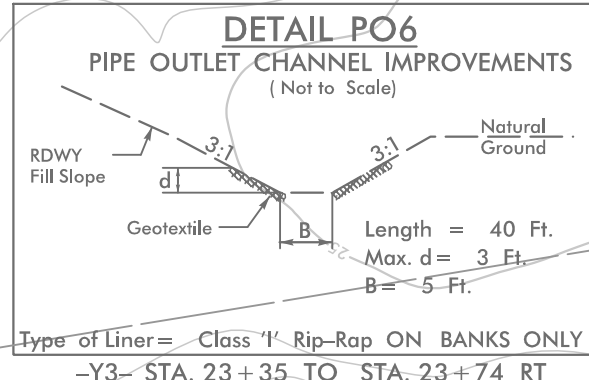


MATCHLINE -L- 18+00 SEE SHEET 5

PROJECT REFERENCE NO.	SHEET NO.
U-6202	EC-5/CON5.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

INTERSECTION OF GORDON RD (-L-), I-40, AND US 117/NC 132

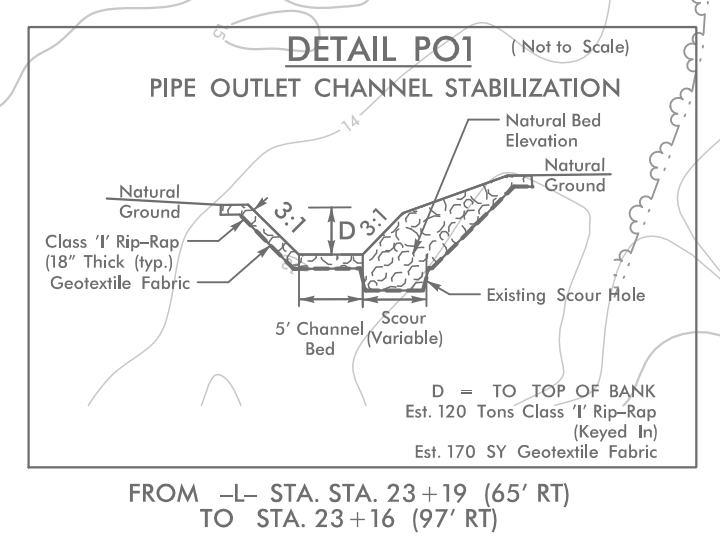
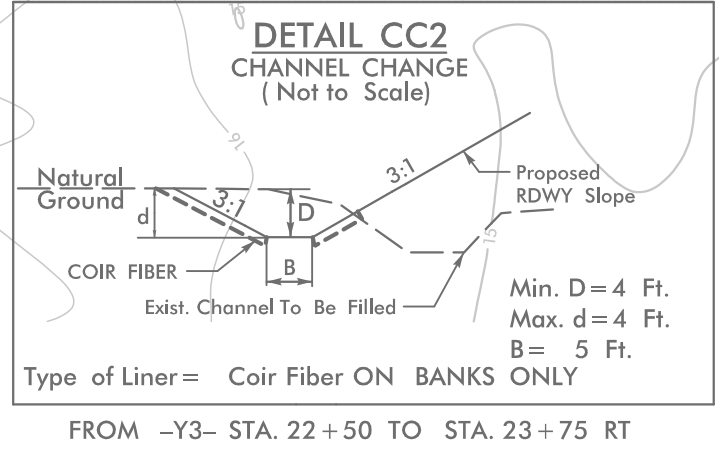
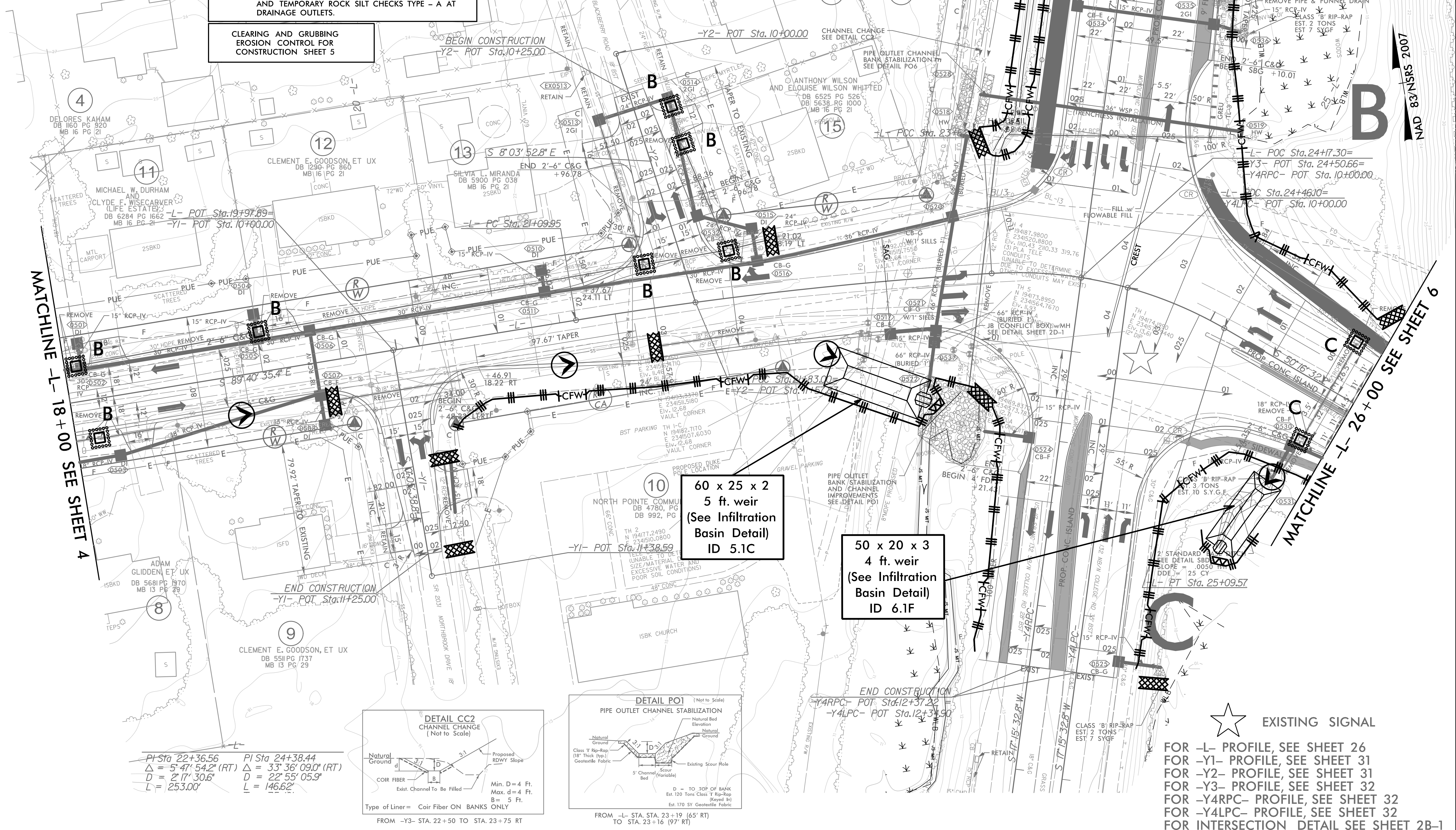
2024 ADT 2044 ADT	22400 25700	1700 2700	10900 12500
8500 9900	GORDON RD (SR 2048)	2200 2400	23300 28600
19900 24200		7900 11300	



INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED BY ENGINEER.

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5



PI Sta 22+36.56	PI Sta 24+38.44
Δ = 5° 47' 54.2" (RT)	Δ = 33° 36' 09.0" (RT)
D = 2' 17" 30.6"	D = 22' 55" 05.9"
L = 253.00'	L = 146.62'

NOTE:
 1. ALL DRIVEWAYS HAVE 10' RADII UNLESS OTHERWISE NOTED.

8/17/99
 REVISIONS
 4/16/2024
 4/16/2024
 EC_PSH.dgn
 HNTB

NAD 83/NSRS 2007

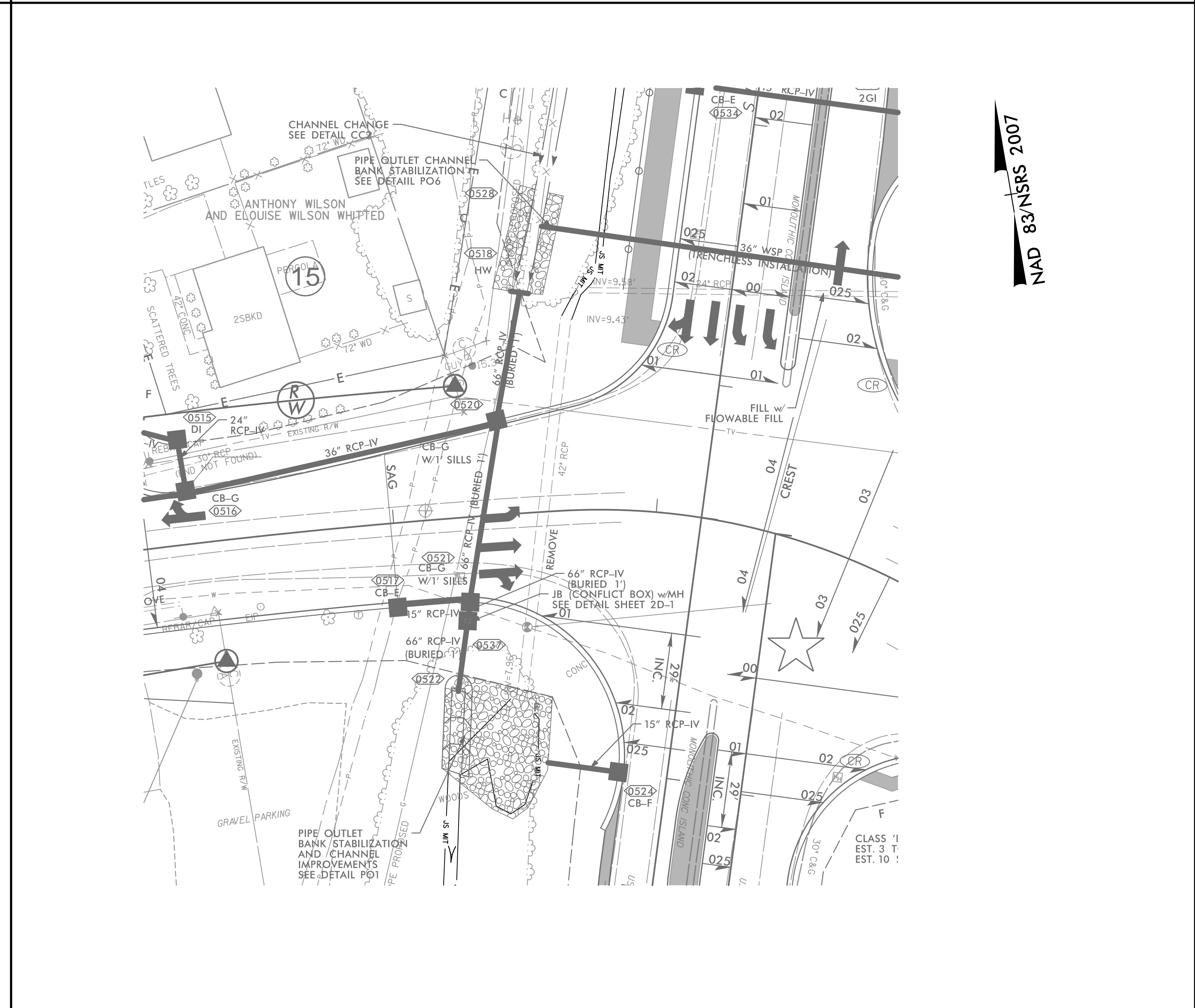
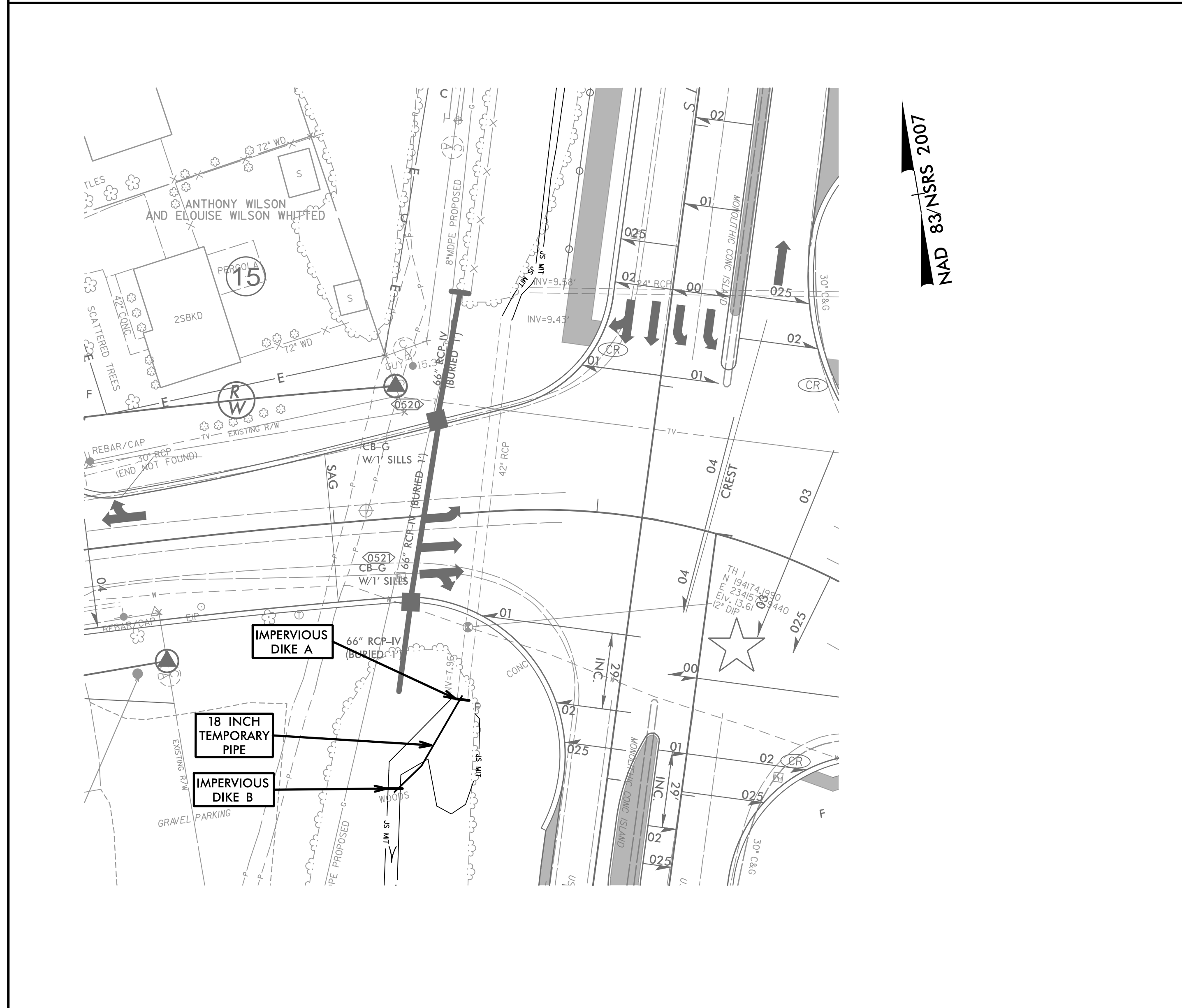
FOR -L- PROFILE, SEE SHEET 26
 FOR -Y1- PROFILE, SEE SHEET 31
 FOR -Y2- PROFILE, SEE SHEET 31
 FOR -Y3- PROFILE, SEE SHEET 32
 FOR -Y4RPC- PROFILE, SEE SHEET 32
 FOR -Y4LPC- PROFILE, SEE SHEET 32
 FOR INTERSECTION DETAIL SEE SHEET 2B-1

PROJECT REFERENCE NO.	SHEET NO.
U-6202	EC-5-1/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PIPE CONSTRUCTION SEQUENCE STA. 23+47 -L-

- PHASE I**
1. UTILIZE SPECIAL STILLING BASIN(S) THROUGHOUT PIPE CONSTRUCTION.
 2. MAINTAIN FLOW THROUGH EXISTING 42" RCP.
 3. INSTALL PROPOSED 66" RCP WITH 1' BURIED AND CATCH BASINS 0520 AND 0521.
 4. INSTALL IMPERVIOUS DIKES A, B, AND 18" TEMPORARY PIPE AS SHOWN ON PLAN.
 5. DIVERT FLOW THROUGH EXISTING 42" RCP AND 18" TEMPORARY PIPE.
 6. DEWATER WORK AREA(S) WITH SPECIAL STILLING BASIN(S).

- PHASE II**
1. CONSTRUCT UPSTREAM CHANNEL CHANGE.
 2. CONSTRUCT DOWNSTREAM PIPE OUTLET BANK STABILIZATION AND CHANNEL IMPROVEMENTS.
 3. REMOVE IMPERVIOUS DIKES A, B, AND 18" TEMPORARY PIPE.
 4. CONNECT JS WITH UPSTREAM CHANNEL CHANGE AND DIVERT FLOW INTO NEWLY INSTALLED 66" RCP.
 5. REMOVE EXISTING 42" RCP AS WORK ALLOWED.
 6. REMOVE ANY REMAINING SPECIAL STILLING BASIN(S).
 7. COMPLETE ROADWAY.



PROJECT REFERENCE NO.	SHEET NO.
U-6202	EC-6/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

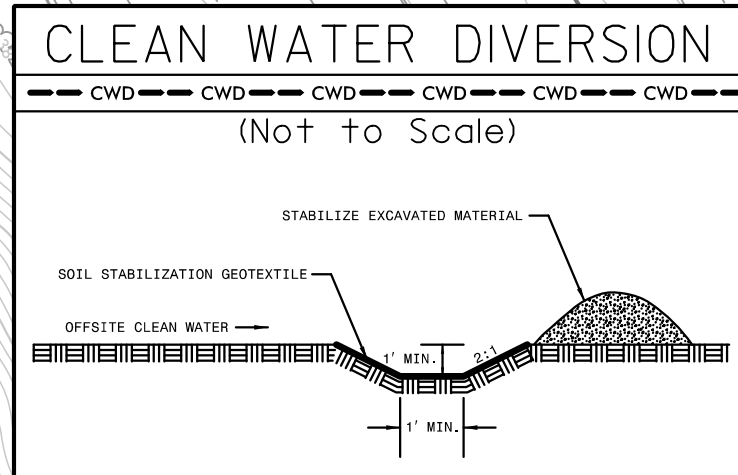
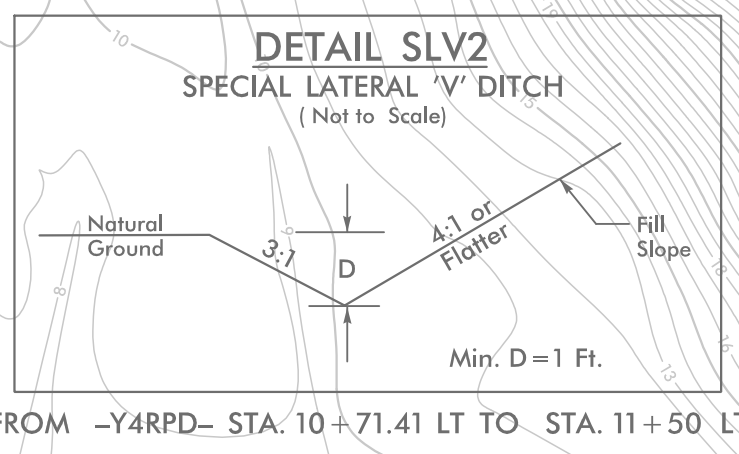
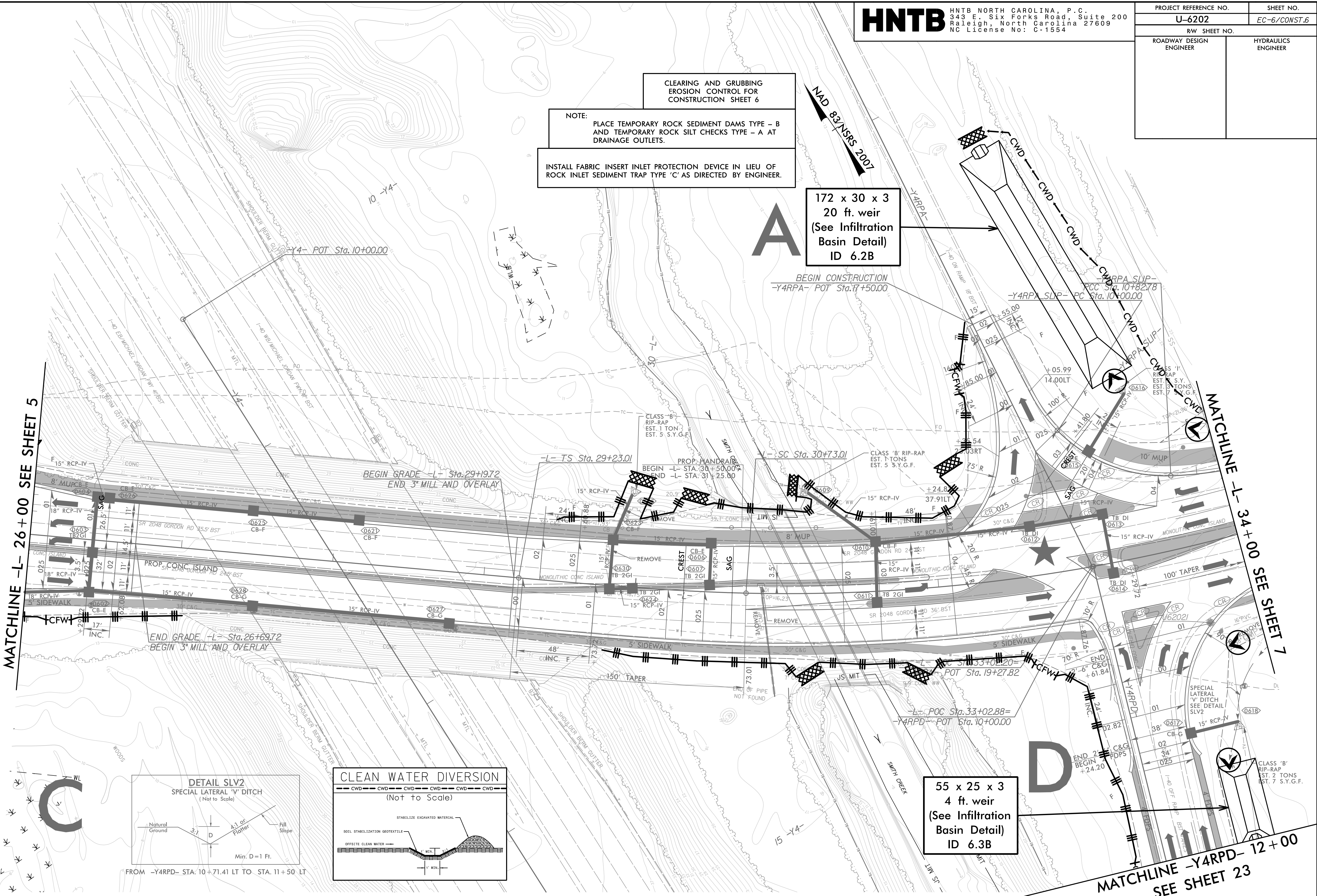
CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 6

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

INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF
 ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED BY ENGINEER.

172 x 30 x 3
 20 ft. weir
 (See Infiltration
 Basin Detail)
 ID 6.2B

55 x 25 x 3
 4 ft. weir
 (See Infiltration
 Basin Detail)
 ID 6.3B

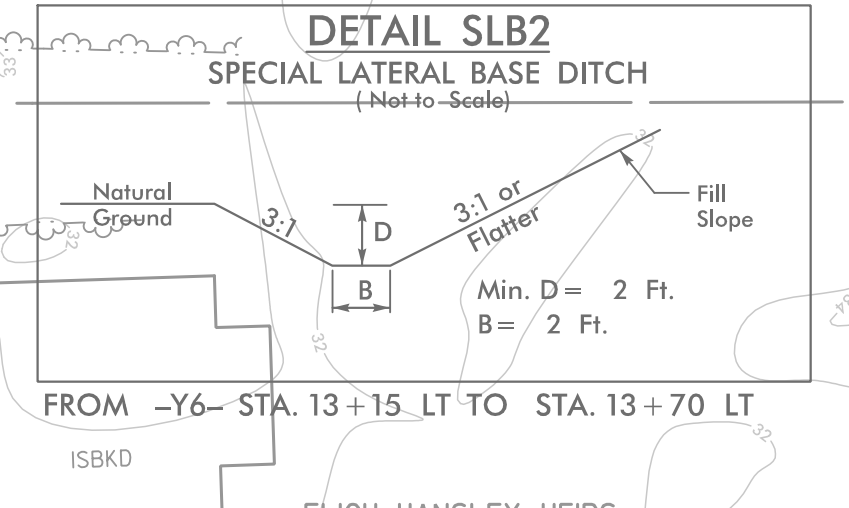
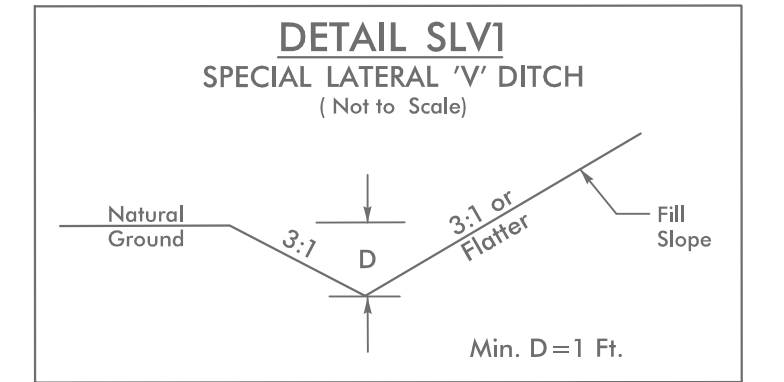


NOTE:
 1. ALL DRIVEWAYS HAVE 10' RADII UNLESS OTHERWISE NOTED.

★ PROPOSED SIGNAL

FOR -L- PROFILE, SEE SHEET 26
 FOR -Y4RPA- PROFILE, SEE SHEET 32
 FOR -Y4RPA SLIP- PROFILE, SEE SHEET 38
 FOR -Y4RPD- PROFILE, SEE SHEET 33
 FOR INTERSECTION DETAIL SEE SHEET 2B-1

PROJECT REFERENCE NO.	SHEET NO.
U-6202	EC-8/CONST.8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



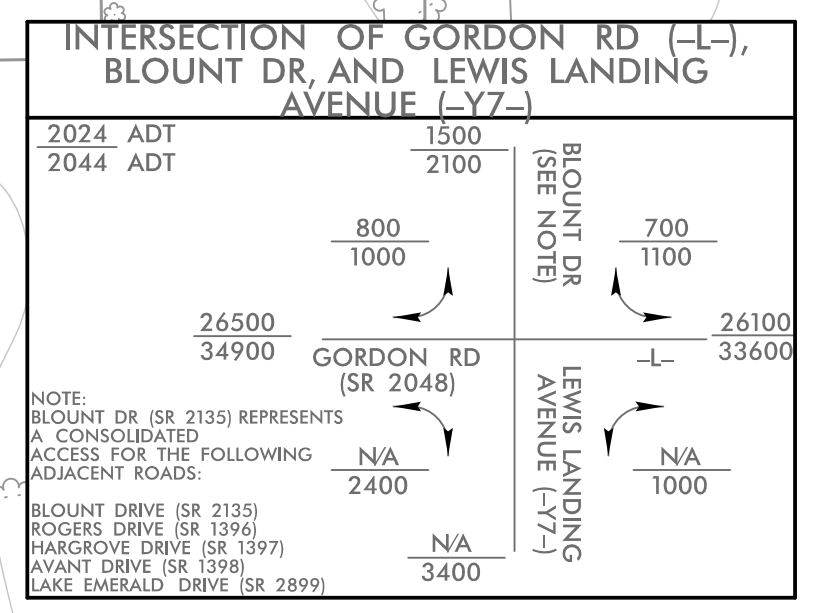
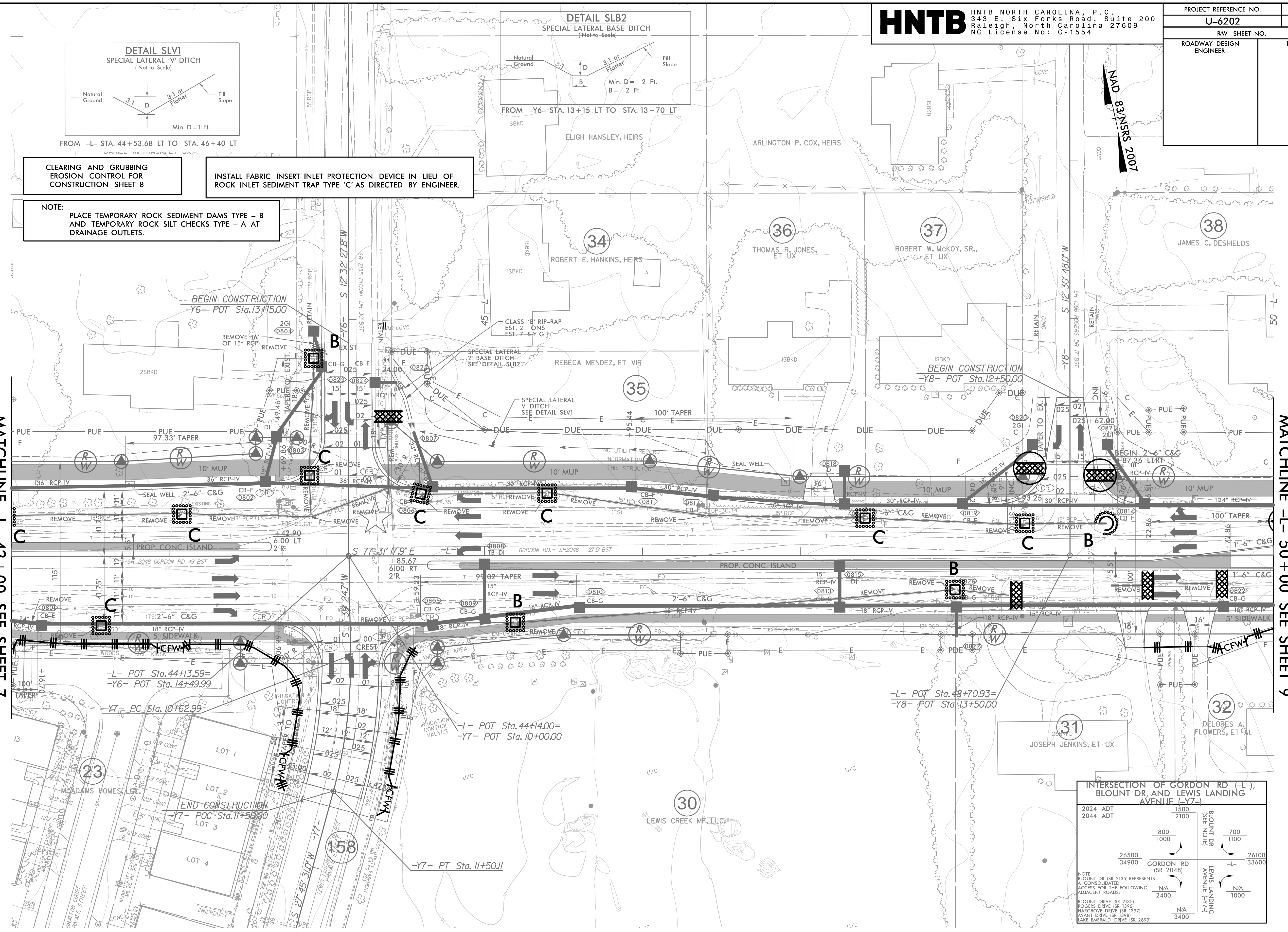
CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 8

INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED BY ENGINEER.

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

MATCHLINE -L- 42 + 00 SEE SHEET 7

MATCHLINE -L- 50 + 00 SEE SHEET 9



REVISIONS

★ EXISTING SIGNAL

NOTE:
 1. ALL DRIVEWAYS HAVE 10' RADII UNLESS OTHERWISE NOTED.

FOR -L- PROFILE, SEE SHEET 27
 FOR -Y6- PROFILE, SEE SHEET 33
 FOR -Y7- PROFILE, SEE SHEET 33
 FOR -Y8- PROFILE, SEE SHEET 34

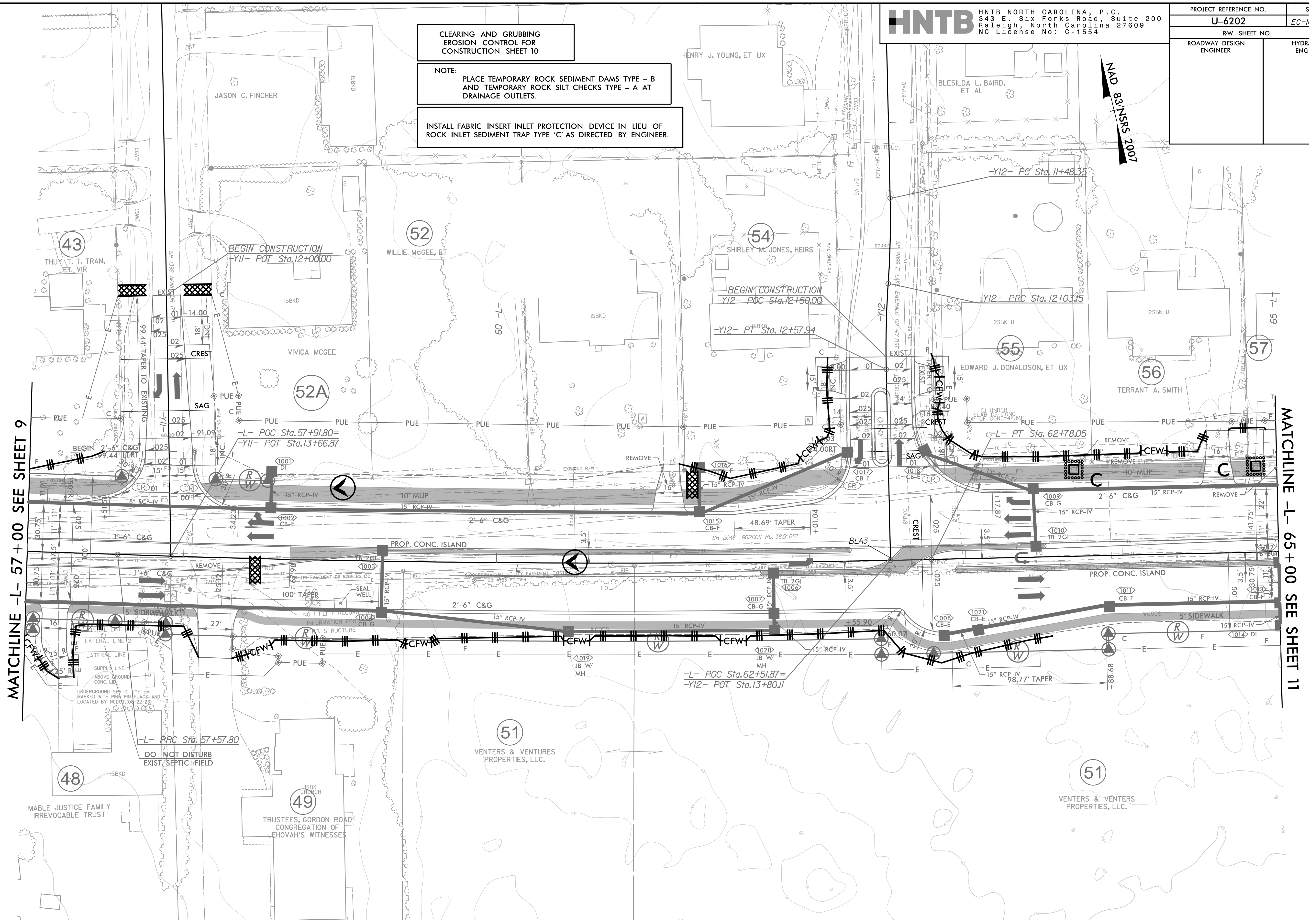
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PROJECT REFERENCE NO.	SHEET NO.
U-6202	EC-10/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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.

INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF
 ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED BY ENGINEER.



MATCHLINE -L- 57 + 00 SEE SHEET 9

MATCHLINE -L- 65 + 00 SEE SHEET 11

NOTE:
 1. ALL DRIVEWAYS HAVE 10' RADII UNLESS OTHERWISE NOTED.

FOR -L- PROFILE, SEE SHEET 27
 FOR -Y11- PROFILE, SEE SHEET 34
 FOR -Y12- PROFILE, SEE SHEET 35
 FOR INTERSECTION DETAIL, SEE SHEET 2B-2

REVISIONS

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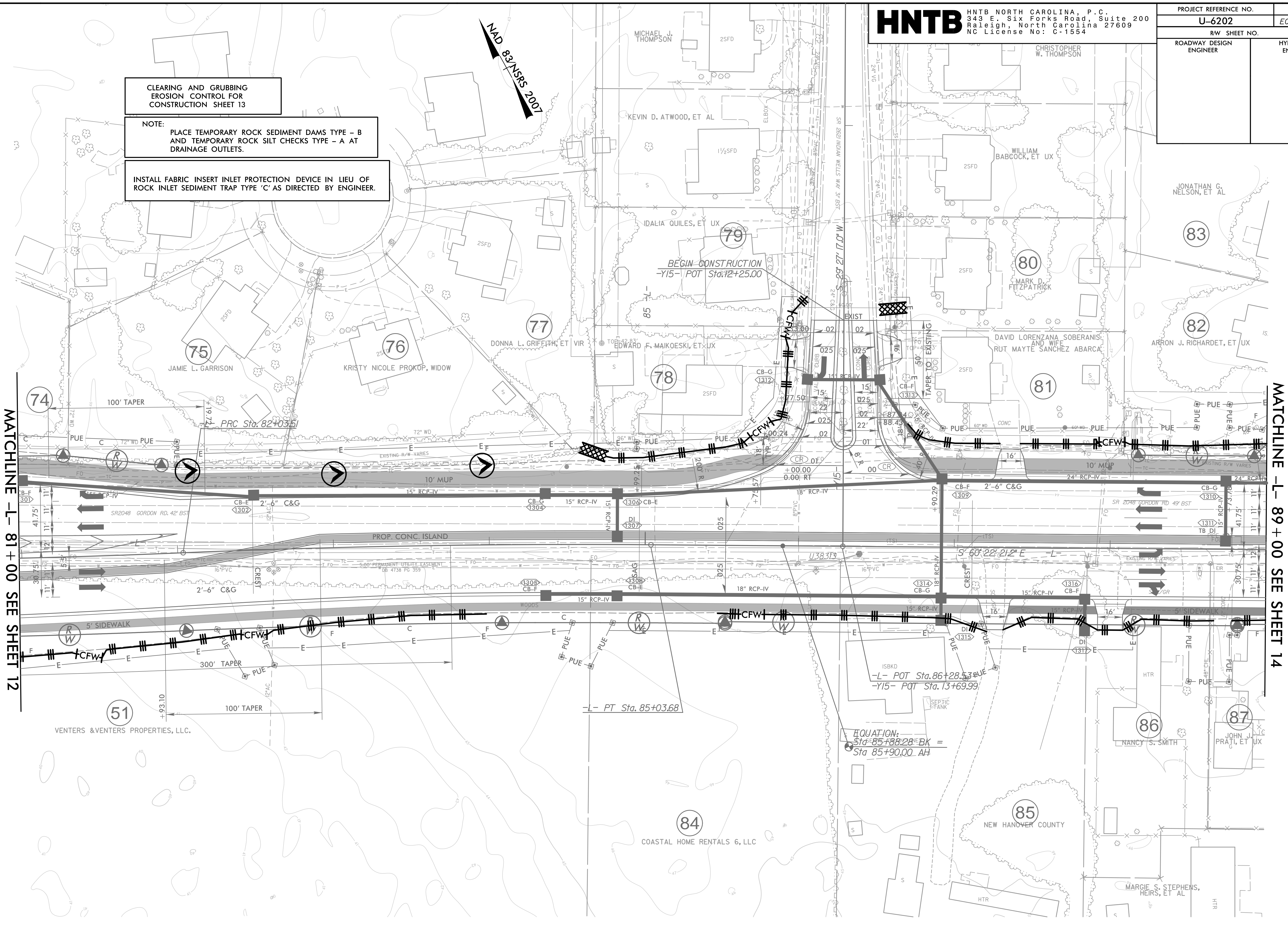
PROJECT REFERENCE NO.	SHEET NO.
U-6202	EC-13/CONST.13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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.

INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF
 ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED BY ENGINEER.

NAD 83 NSRS 2007



MATCHLINE -L- 81+00 SEE SHEET 12

MATCHLINE -L- 89+00 SEE SHEET 14

REVISIONS

NOTE:
 1. ALL DRIVEWAYS HAVE 10' RADII UNLESS OTHERWISE NOTED.

FOR -L- PROFILE, SEE SHEET 28
 FOR -Y15- PROFILE, SEE SHEET 35

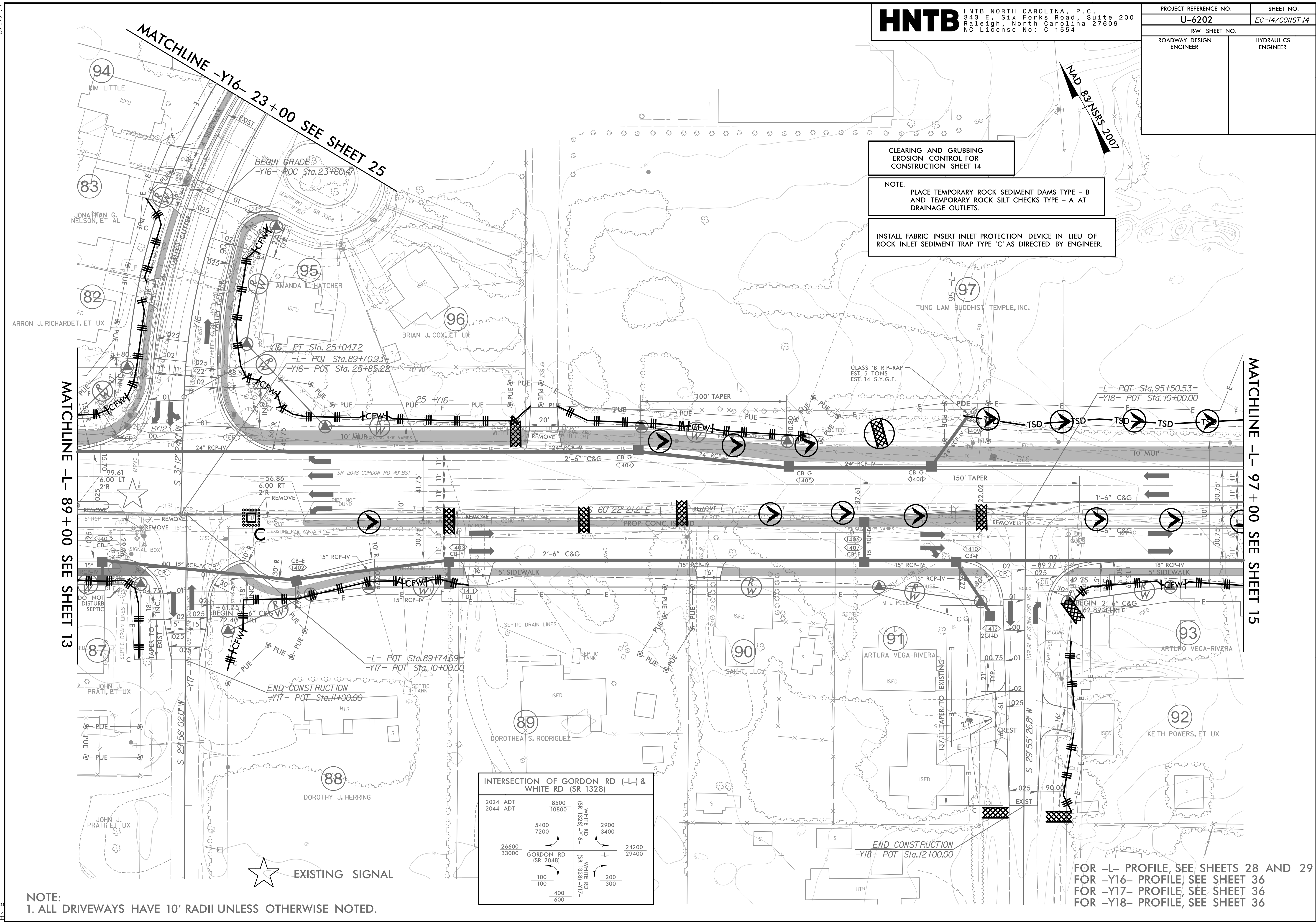
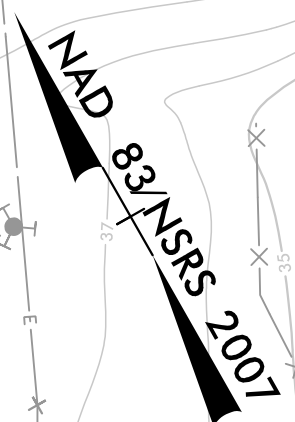
8/17/99
 4/17/2024
 HNTB

PROJECT REFERENCE NO.	SHEET NO.
U-6202	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.

INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF
 ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED BY ENGINEER.



INTERSECTION OF GORDON RD (-L-) & WHITE RD (SR 1328)

2024 ADT	8500	2900	
2044 ADT	10800	3400	
	5400		
	7200		
26600			24200
33000			29400
	100		200
	100		300
	400		600

NOTE:
 1. ALL DRIVEWAYS HAVE 10' RADII UNLESS OTHERWISE NOTED.

FOR -L- PROFILE, SEE SHEETS 28 AND 29
 FOR -Y16- PROFILE, SEE SHEET 36
 FOR -Y17- PROFILE, SEE SHEET 36
 FOR -Y18- PROFILE, SEE SHEET 36

REVISIONS

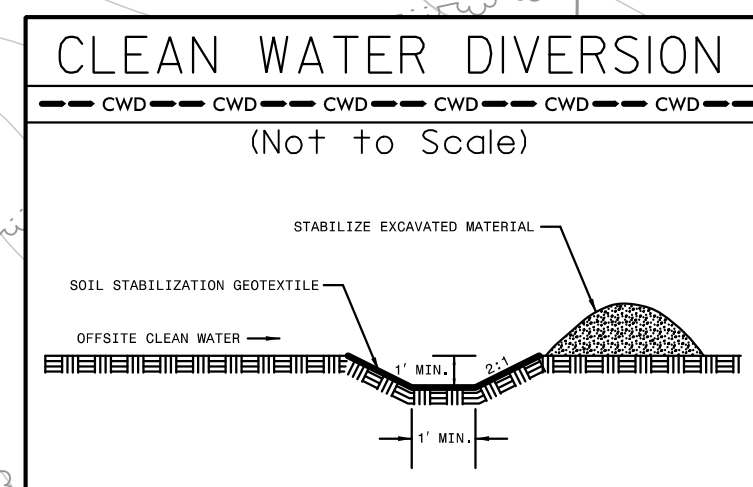
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 4/17/2024
 4/17/2024
 EC-PSH14.dgn
 HNTB

PROJECT REFERENCE NO.	SHEET NO.
U-6202	EC-15/CONST.15
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 15

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

INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF
 ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED BY ENGINEER.

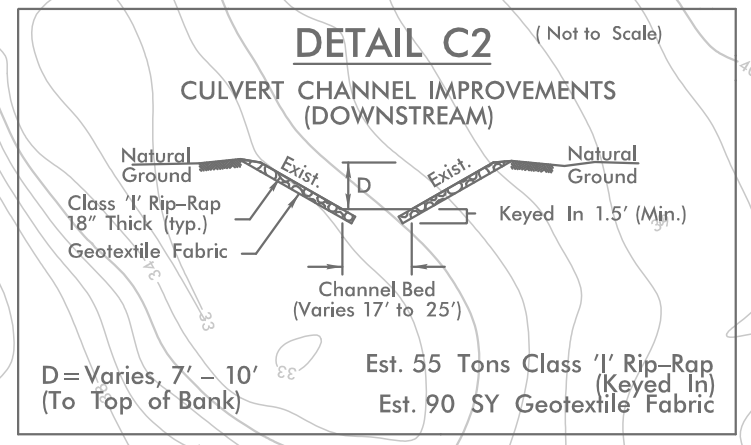
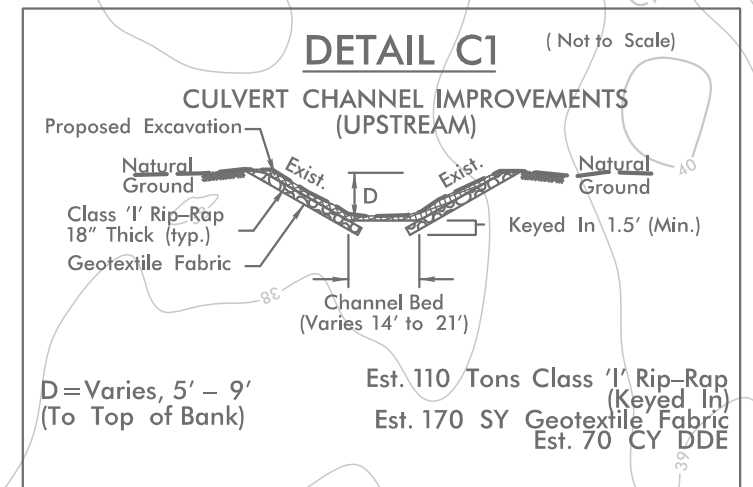


55 x 25 x 3
 4 ft. weir
 (See Infiltration
 Basin Detail)
 ID 15.2B

NOTE:
 TEMPORARY 15" PIPES FOR
 CLEAN WATER DIVERSION.

80 x 39 x 3
 12 ft. weir
 (See Infiltration
 Basin Detail)
 ID 15.1B

-L-
 PI Sta 102+47.82
 $\Delta = 2' 27' 41.9" (LT)$
 $D = 0' 28' 38.9"$
 $L = 515.57'$
 $T = 257.82'$
 $R = 12,000.00'$
 $e = NC$



MATCHLINE -L- 97+00 SEE SHEET 14

MATCHLINE -L- 105+00 SEE SHEET 16

NOTE:
 1. ALL DRIVEWAYS HAVE 10' RADII UNLESS OTHERWISE NOTED.

FOR -L- PROFILE, SEE SHEET 29
 FOR -Y19- PROFILE, SEE SHEET 36
 FOR -Y20- PROFILE, SEE SHEET 37
 FOR INTERSECTION DETAIL, SEE SHEET 2B-2

REVISIONS

8.17/99
 5/2/2024
 16202.EC.PSH15.dgn
 HNTB

PROJECT REFERENCE NO.	SHEET NO.
U-6202	EC-15-1/CONST J5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

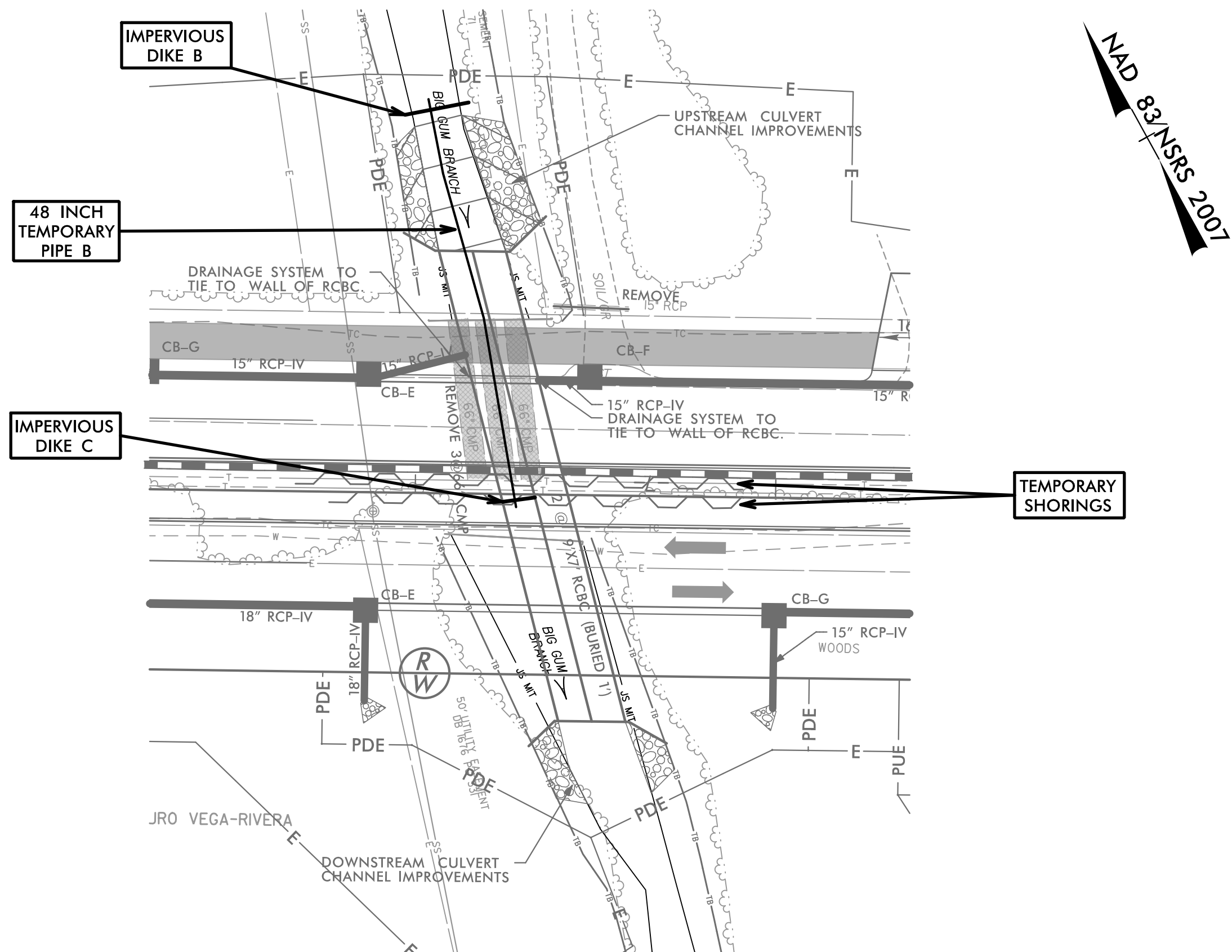
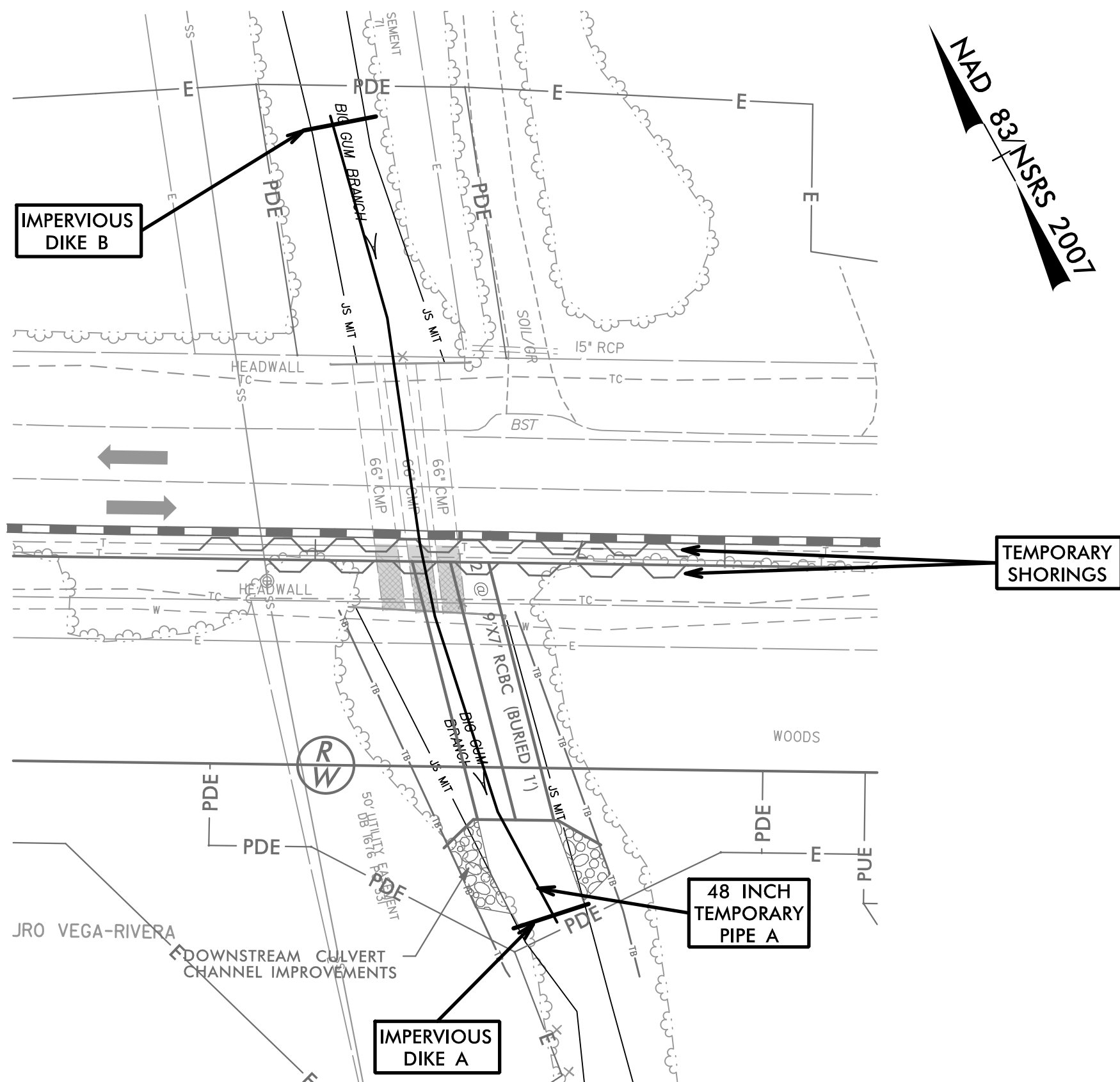
CULVERT CONSTRUCTION SEQUENCE STA. 98 + 33 -L-

PHASE I

1. UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT CULVERT CONSTRUCTION.
2. INSTALL IMPERVIOUS DIKES A AND B.
3. INSTALL 48" TEMPORARY PIPE A AS SHOWN ON PLAN.
4. DIVERT FLOW THROUGH TEMPORARY PIPE A.
5. DEWATER WORK AREA(S) BY USING SPECIAL STILLING BASIN(S).
6. INSTALL TEMPORARY SHORINGS ACCORDING TO TRAFFIC CONTROL PLAN.
7. REMOVE PORTIONS OF DOWNSTREAM EXISTING 66" CMPs AND HEADWALL.
8. INSTALL PORTION OF DOWNSTREAM PROPOSED 9' X 7' RCBC, HEADWALL, AND CHANNEL IMPROVEMENTS.
9. CONSTRUCT ROADWAY WIDENING AND SHIFT TRAFFIC.

PHASE II

1. INSTALL IMPERVIOUS DIKE C AND 48" TEMPORARY PIPE B AS SHOWN ON PLAN.
2. MAINTAIN IMPERVIOUS DIKES B.
3. REMOVE IMPERVIOUS DIKE A AND 48" TEMPORARY PIPE A.
4. DIVERT FLOW THROUGH TEMPORARY PIPE B AND WESTERN BARREL OF THE NEWLY INSTALLED DOWNSTREAM PROPOSED 9' X 7' RCBC.
5. REMOVE REMAINING PORTIONS OF EXISTING 66" CMPs AND HEADWALL.
6. INSTALL REMAINING PORTION OF PROPOSED 9' X 7' RCBC, HEADWALL AND CHANNEL IMPROVEMENTS.
7. REMOVE IMPERVIOUS DIKES B, C, AND TEMPORARY PIPE B.
8. REMOVE ANY REMAINING SPECIAL STILLING BASIN(S).
9. COMPLETE ROADWAY AND DRAINAGE.



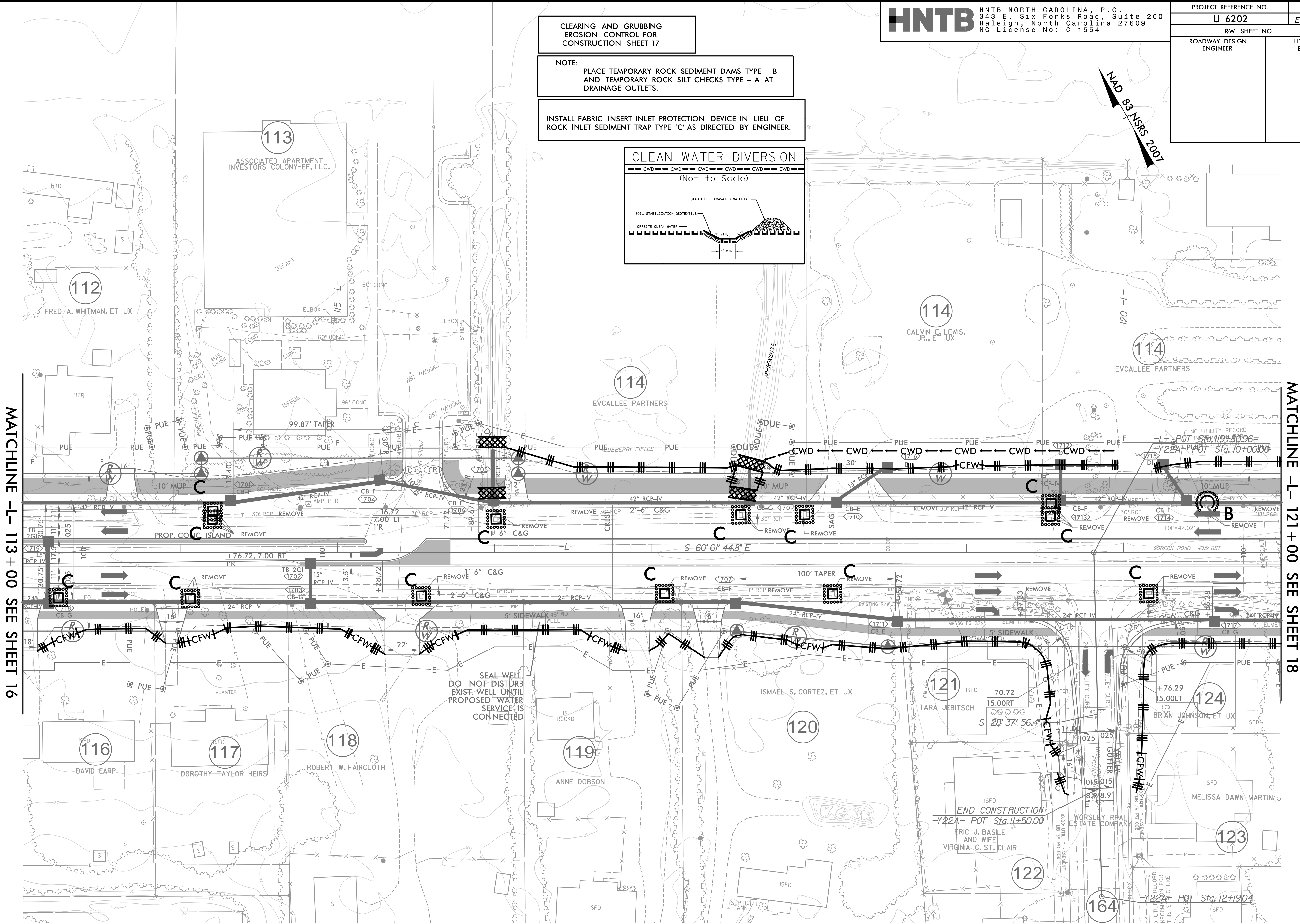
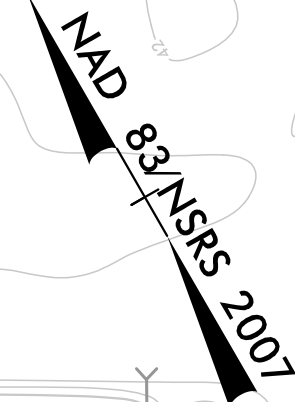
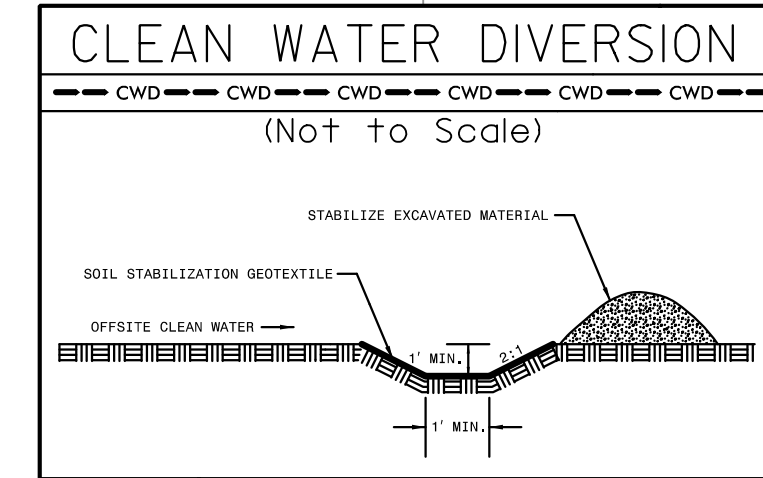
8/17/99

PROJECT REFERENCE NO. U-6202	SHEET NO. EC-17/CONST.17
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 17

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

INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF
 ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED BY ENGINEER.



MATCHLINE -L- 113 + 00 SEE SHEET 16

MATCHLINE -L- 121 + 00 SEE SHEET 18

REVISIONS

NOTE:
 1. ALL DRIVEWAYS HAVE 10' RADII UNLESS OTHERWISE NOTED.

FOR -L- PROFILE, SEE SHEET 29
 FOR -Y22A- PROFILE, SEE SHEET 37

4/17/2024
 4/17/2024 EC.PSH17.dgn
 HNTB

8/17/99

4/17/2024
162022.EC.PSH20.dgn

REVISIONS

MATCHLINE -L- 135+00 SEE SHEET 19

MATCHLINE -L- 143+00 SEE SHEET 21

HNTB

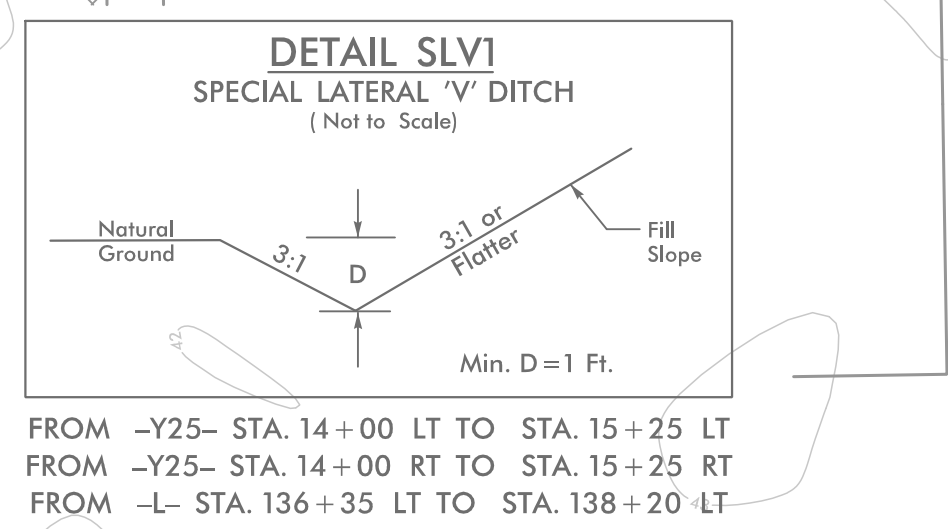
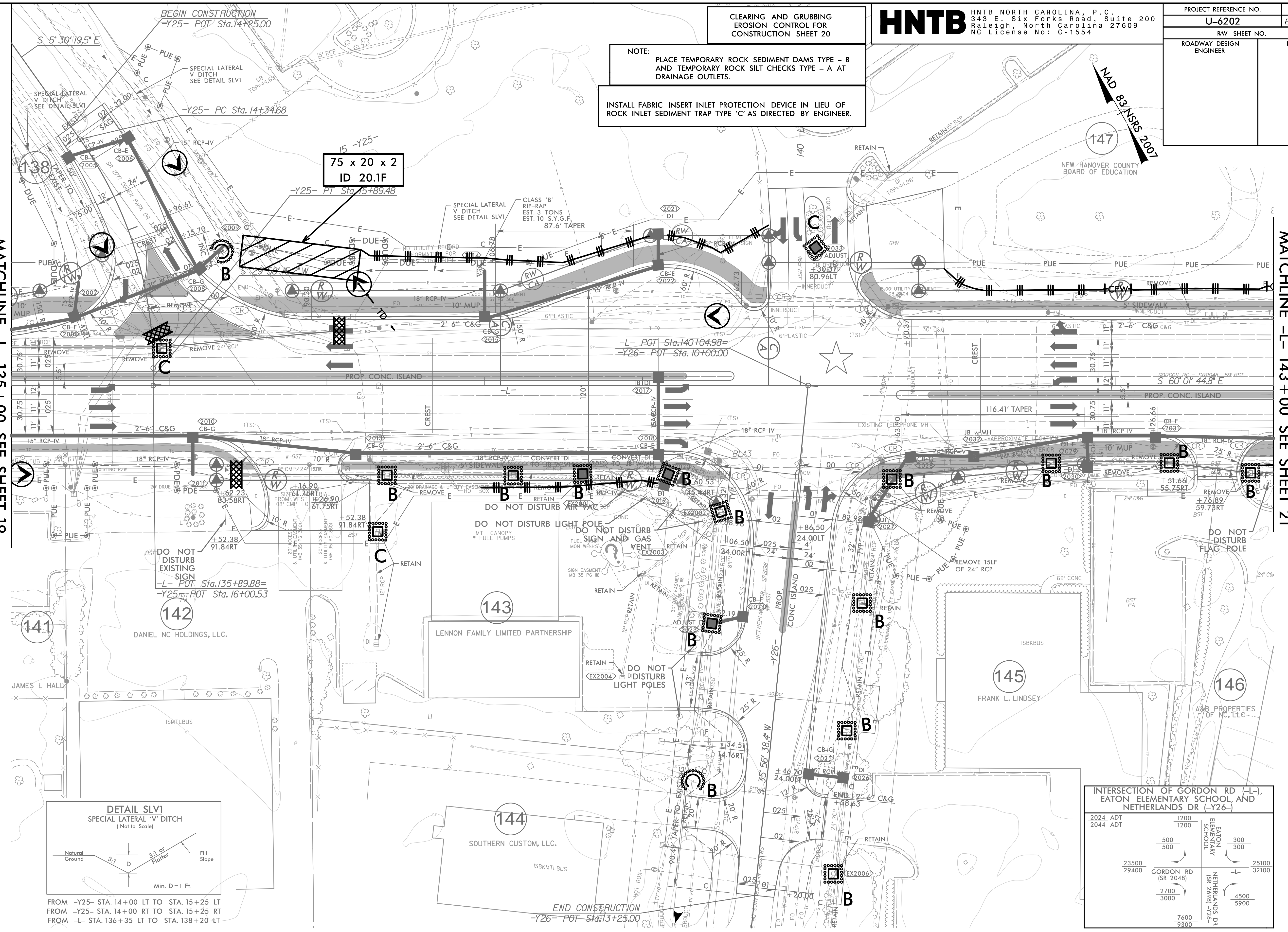
HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
U-6202	EC-20/CONST.20
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 20

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

INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF
ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED BY ENGINEER.



**INTERSECTION OF GORDON RD (-L-),
EATON ELEMENTARY SCHOOL, AND
NETHERLANDS DR (-Y26-)**

2024 ADT	1200	1200	
2044 ADT	500	500	300
	500		300
23500			25100
29400	GORDON RD (SR 2048)		32100
2700			4500
3000			5900
	7600		
	9300		

NOTE:
1. ALL DRIVEWAYS HAVE 10' RADII UNLESS OTHERWISE NOTED.

★ EXISTING SIGNAL

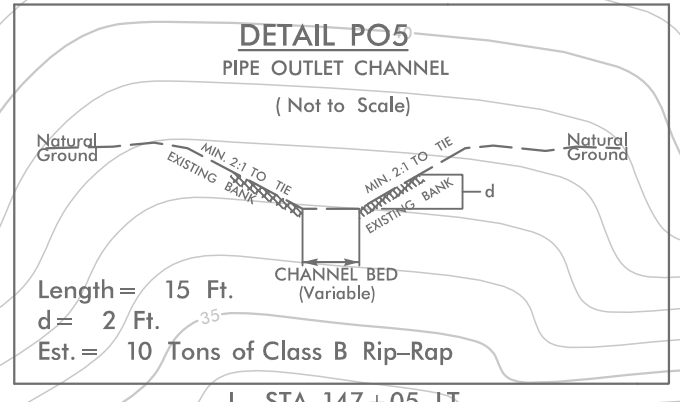
FOR -L- PROFILE, SEE SHEET 30
FOR -Y25- PROFILE, SEE SHEET 38
FOR -Y26- PROFILE, SEE SHEET 38
FOR INTERSECTION DETAIL, SEE SHEET 2B-3

PROJECT REFERENCE NO.	SHEET NO.
U-6202	EC-21/CONST.21
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 21

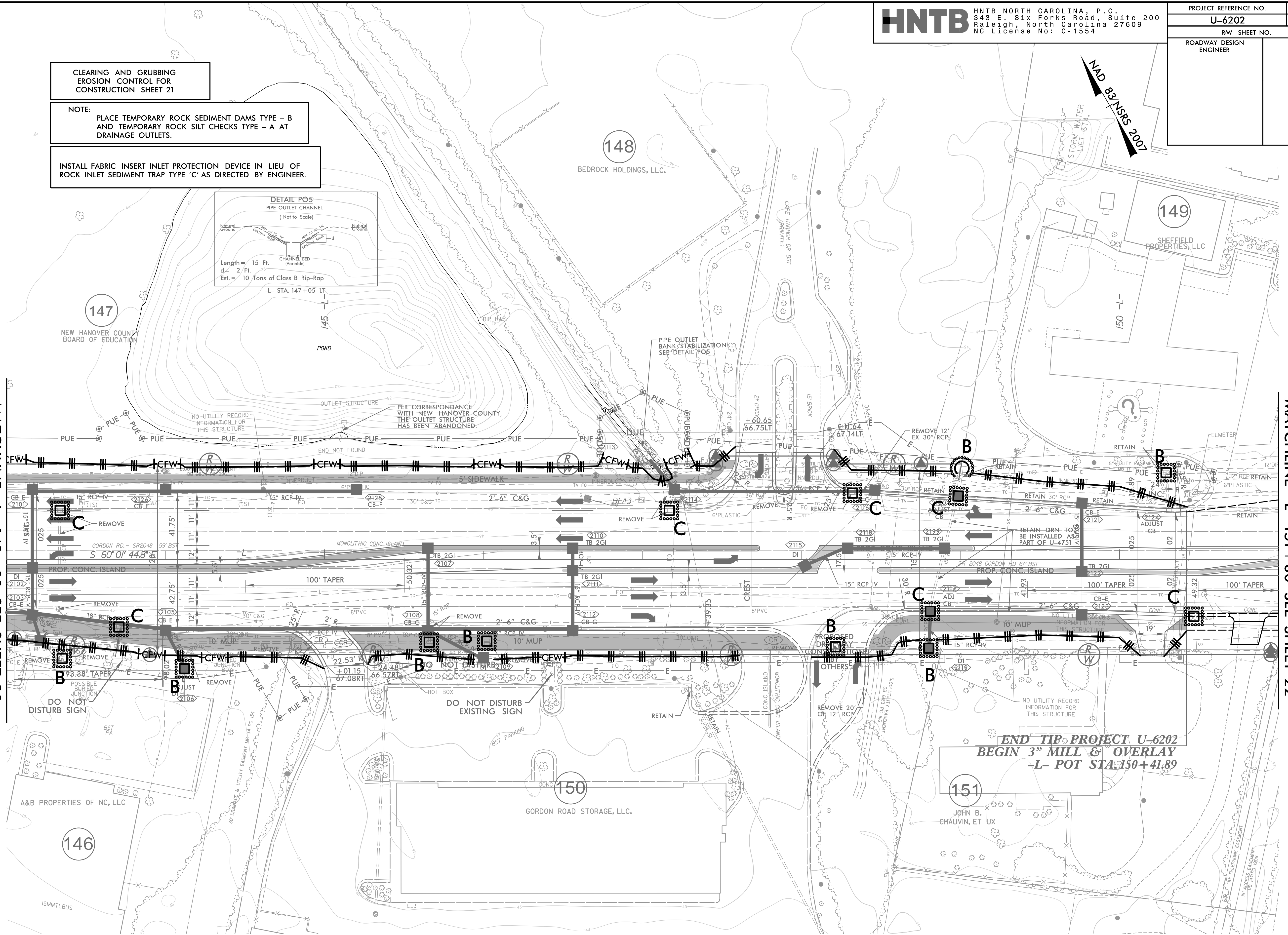
NOTE:
 PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
 AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
 DRAINAGE OUTLETS.

INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF
 ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED BY ENGINEER.



MATCHLINE -L- 143 + 00 SEE SHEET 20

MATCHLINE -L- 151 + 00 SEE SHEET 22



END TIP PROJECT U-6202
BEGIN 3" MILL & OVERLAY
-L- POT STA: 150 + 41.89

NOTE:
 1. ALL DRIVEWAYS HAVE 10' RADII UNLESS OTHERWISE NOTED.

FOR -L- PROFILE, SEE SHEETS 30 AND 31
 FOR INTERSECTION DETAIL, SEE SHEET 2B-3

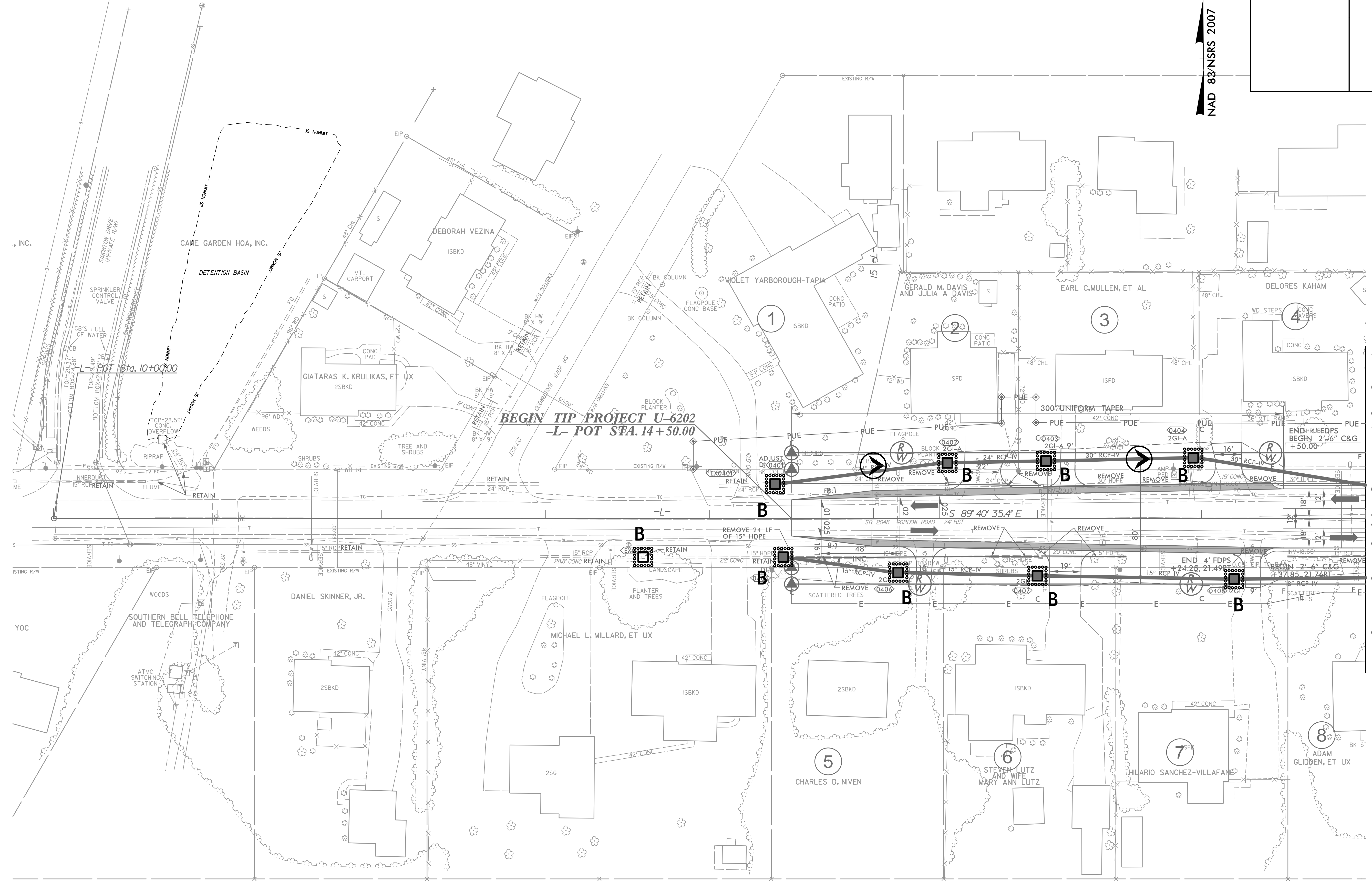
REVISIONS

8/17/99

4/17/2024
 HNTB
 4/17/2024 EC.PSH21.dgn

PROJECT REFERENCE NO.	SHEET NO.
U-6202	EC-26/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

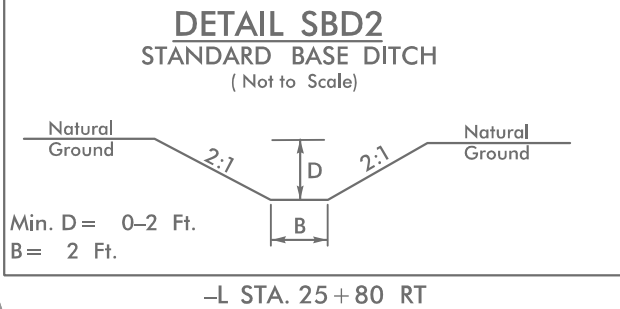
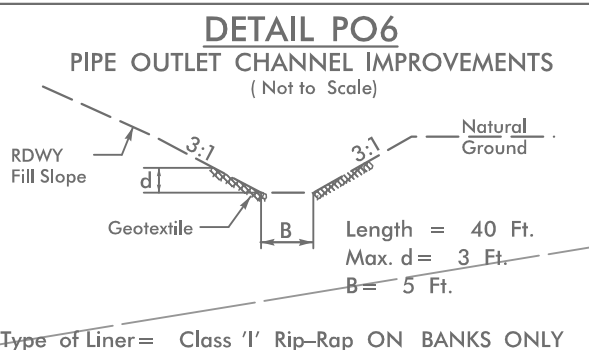
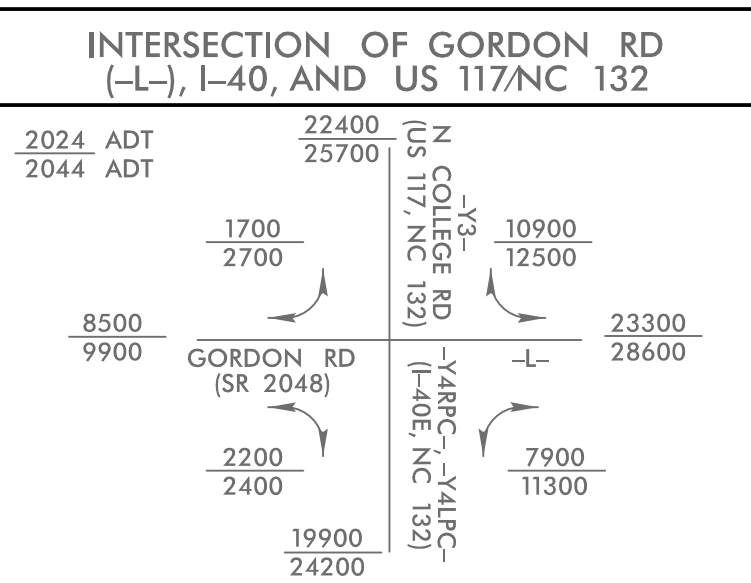
NAD 83/NSRS 2007



BEGIN TIP PROJECT U-6202
 -L- POT STA. 14 + 50.00

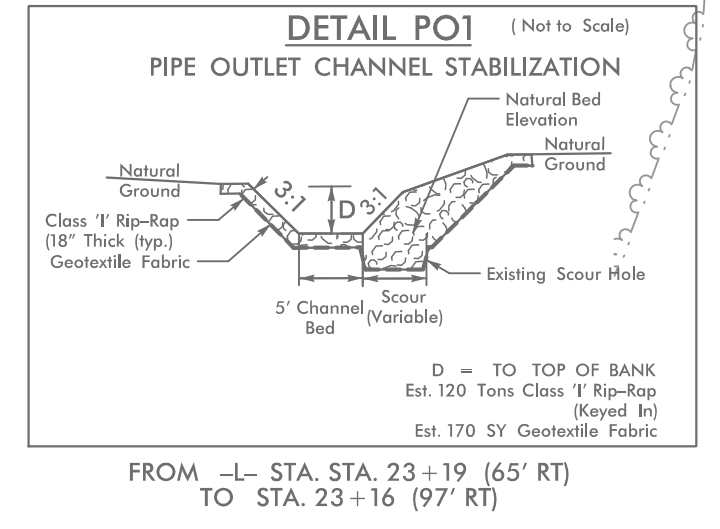
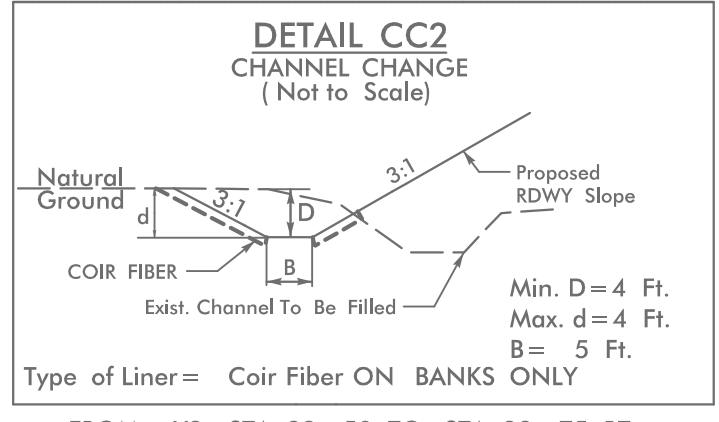
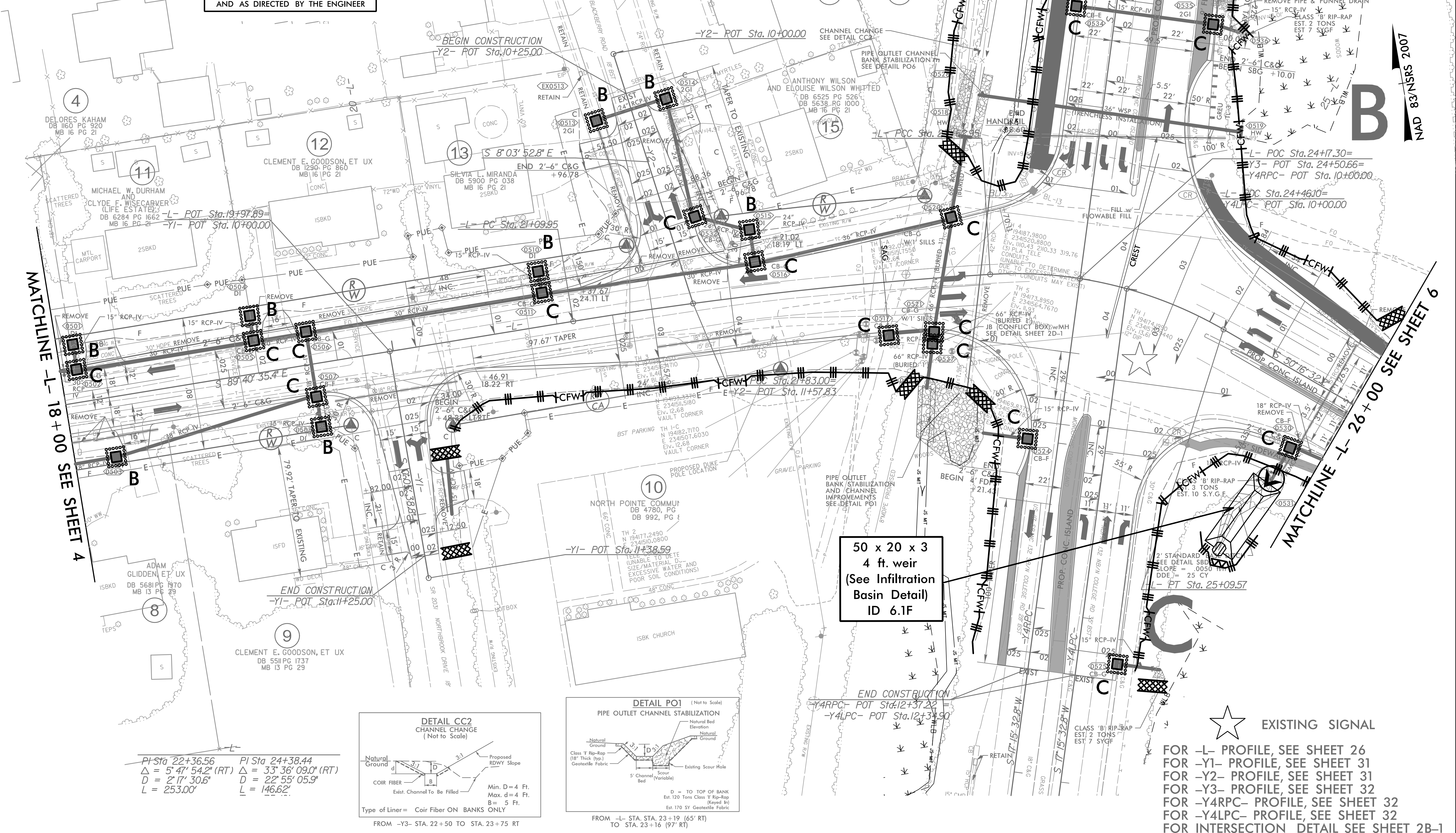
MATCHLINE -L- 18 + 00 SEE SHEET 5

PROJECT REFERENCE NO.	SHEET NO.
U-6202	EC-27/CONST.5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED BY ENGINEER.

UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS/JURISDICTIONAL AREAS, AND AS DIRECTED BY THE ENGINEER.



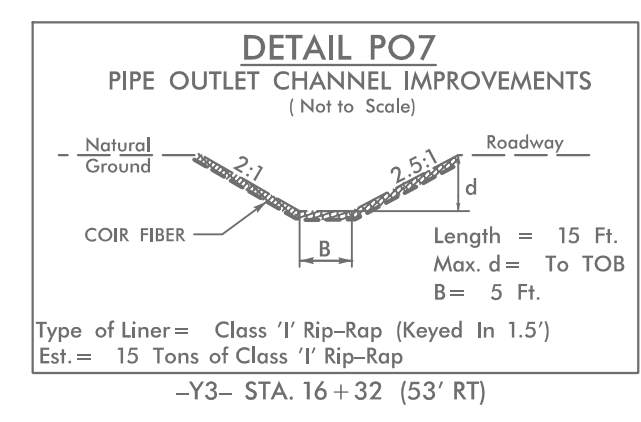
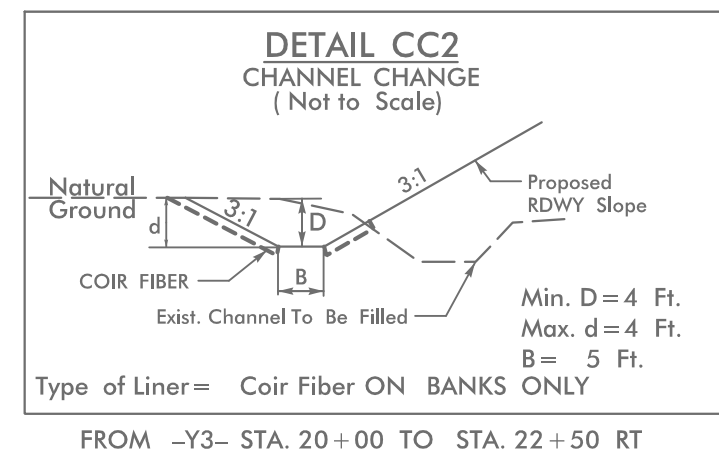
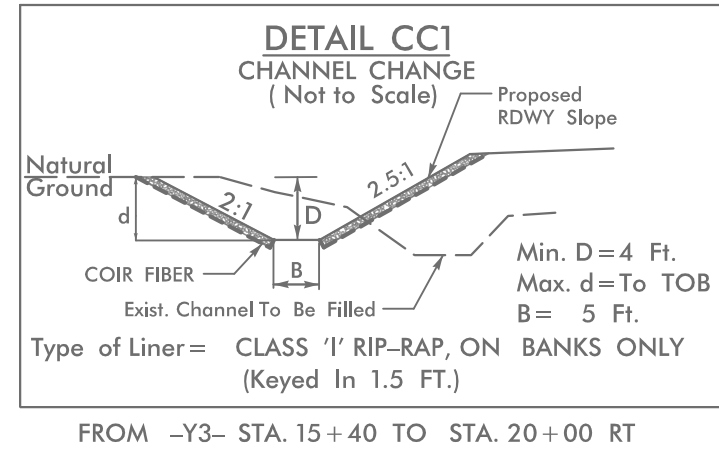
PI Sta 22+36.56 PI Sta 24+38.44
 $\Delta = 5' 47' 54.2''$ (RT) $\Delta = 33' 36' 09.0''$ (RT)
 $D = 2' 17' 30.6''$ $D = 22' 55' 05.9''$
 $L = 253.00'$ $L = 146.62'$

NOTE:
 1. ALL DRIVEWAYS HAVE 10' RADII UNLESS OTHERWISE NOTED.

REVISIONS

8/17/99
 4/16/2024
 HNTB

PROJECT REFERENCE NO.	SHEET NO.
U-6202	EC-28/CONST.5A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

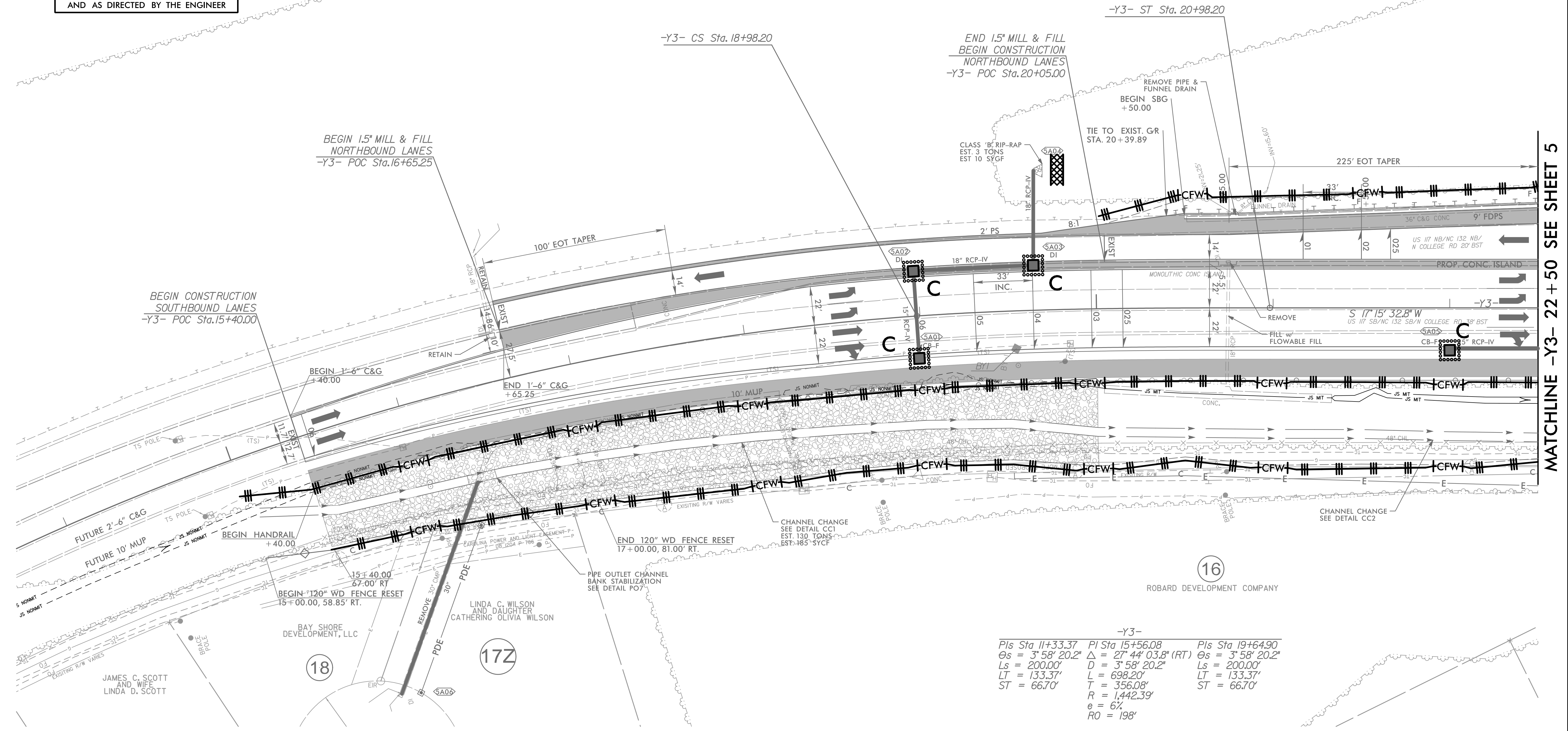


20 -Y3-

NAD 83/NSRS 2007

INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED BY ENGINEER.

UTILIZE COIR FIBER MATTING ADJACENT TO WETLANDS / JURISDICTIONAL AREAS, AND AS DIRECTED BY THE ENGINEER.



REVISIONS

MATCHLINE -Y3- 22 + 50 SEE SHEET 5

16

ROBARD DEVELOPMENT COMPANY

-Y3-

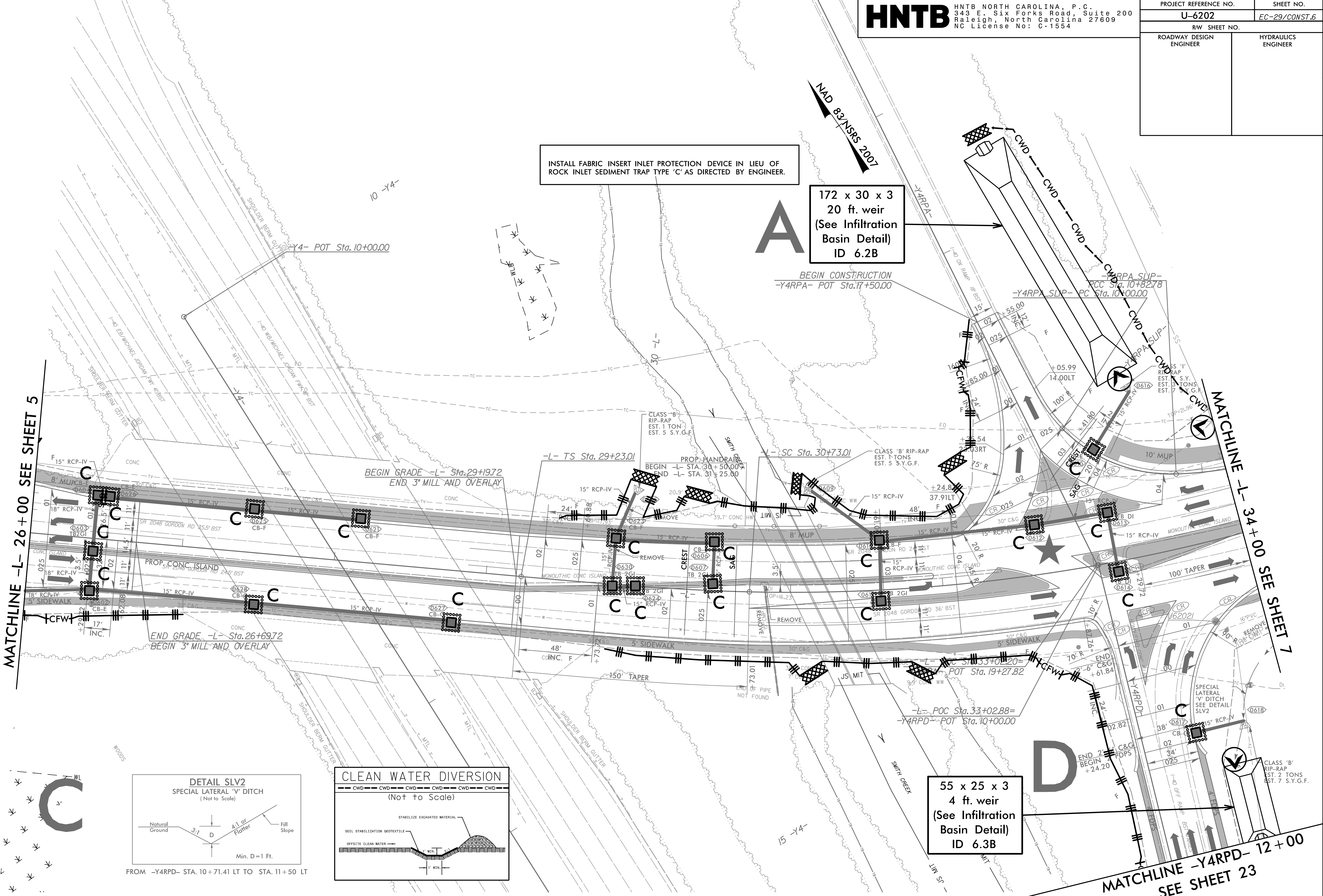
Pls Sta 11+33.37	Pls Sta 15+56.08	Pls Sta 19+64.90
Os = 3' 58" 20.2"	Δ = 27' 44" 03.8" (RT)	Os = 3' 58" 20.2"
Ls = 200.00'	D = 3' 58" 20.2"	Ls = 200.00'
LT = 133.37'	L = 698.20'	LT = 133.37'
ST = 66.70'	T = 356.08'	ST = 66.70'
	R = 1,442.39'	
	e = 6%	
	RO = 198'	

NOTE:
 1. ALL DRIVEWAYS HAVE 10' RADII UNLESS OTHERWISE NOTED.

4/17/2024
 EC-PSHEA.dgn
 HNTB

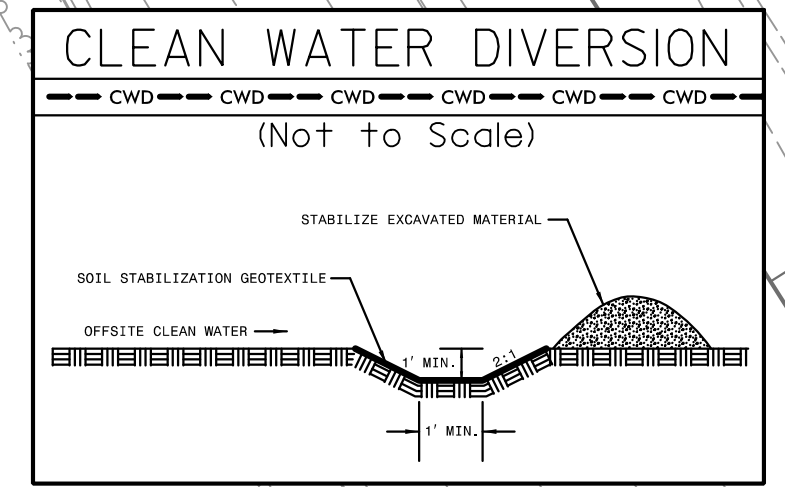
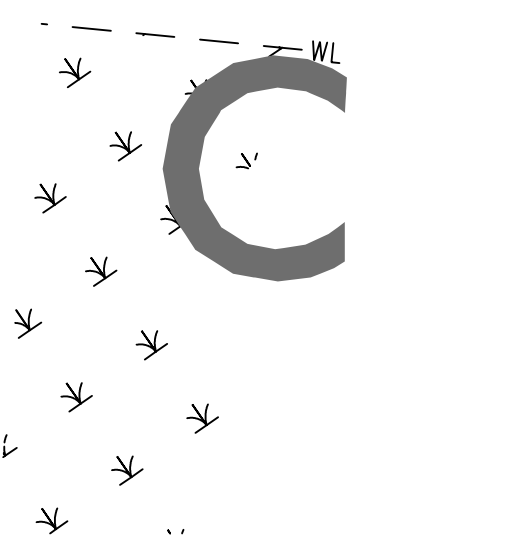
PROJECT REFERENCE NO. U-6202	SHEET NO. EC-29/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

8/17/99



MATCHLINE -L- 26+00 SEE SHEET 5

MATCHLINE -L- 34+00 SEE SHEET 7



INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED BY ENGINEER.

A
 172 x 30 x 3
 20 ft. weir
 (See Infiltration Basin Detail)
 ID 6.2B

D
 55 x 25 x 3
 4 ft. weir
 (See Infiltration Basin Detail)
 ID 6.3B

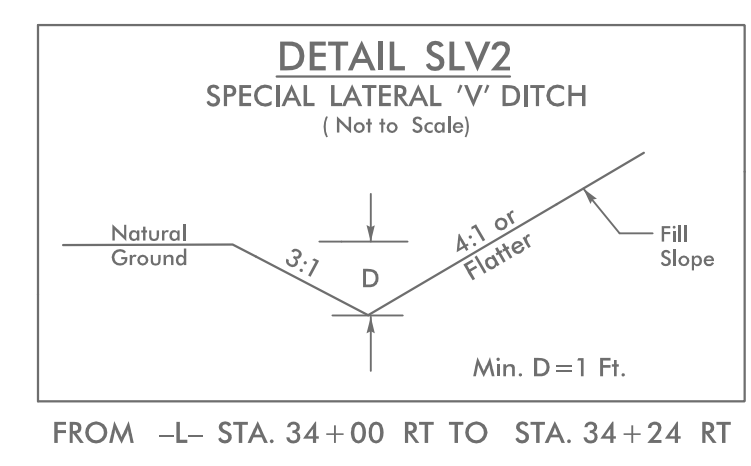
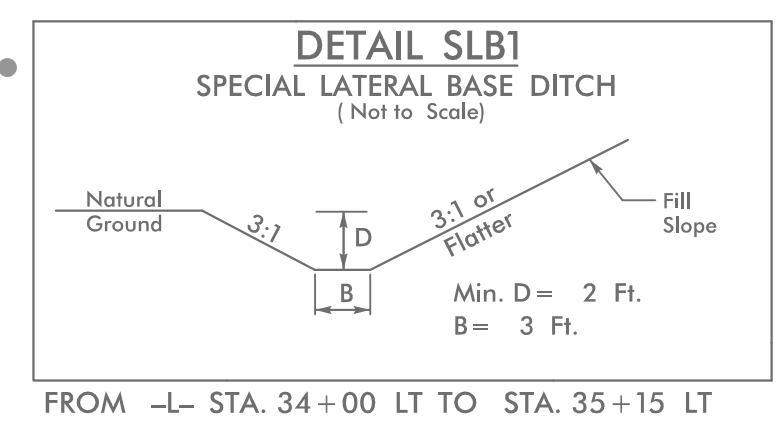
★ PROPOSED SIGNAL

NOTE:
 1. ALL DRIVEWAYS HAVE 10' RADII UNLESS OTHERWISE NOTED.

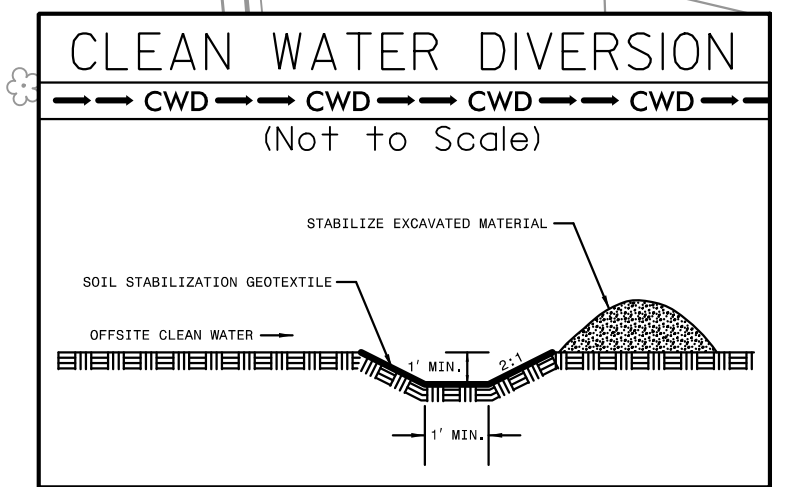
FOR -L- PROFILE, SEE SHEET 26
 FOR -Y4RPA- PROFILE, SEE SHEET 32
 FOR -Y4RPA SLIP- PROFILE, SEE SHEET 38
 FOR -Y4RPD- PROFILE, SEE SHEET 33
 FOR INTERSECTION DETAIL SEE SHEET 2B-1

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-6202	EC-30/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

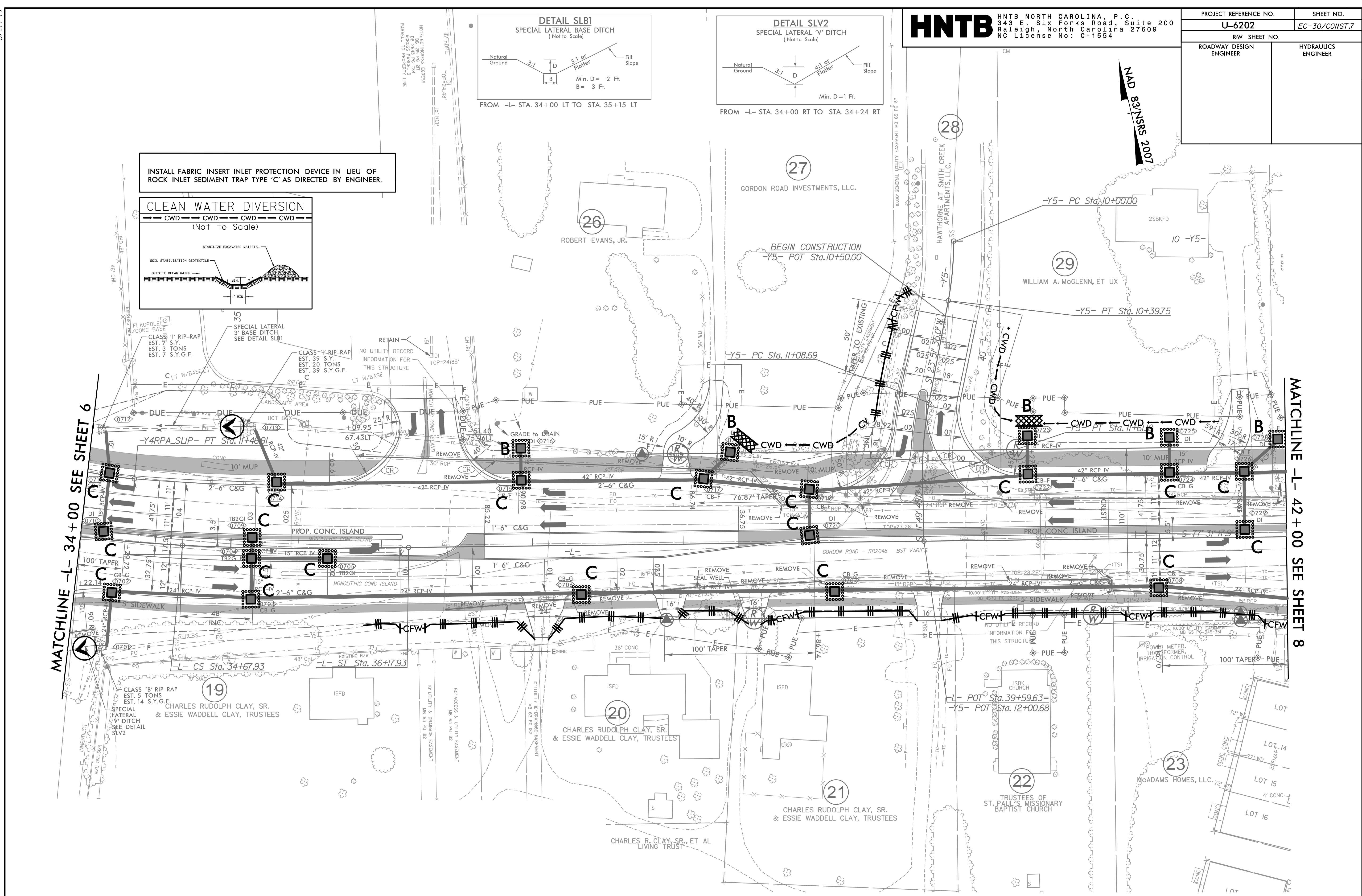


INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED BY ENGINEER.



MATCHLINE -L- 34+00 SEE SHEET 6

MATCHLINE -L- 42+00 SEE SHEET 8



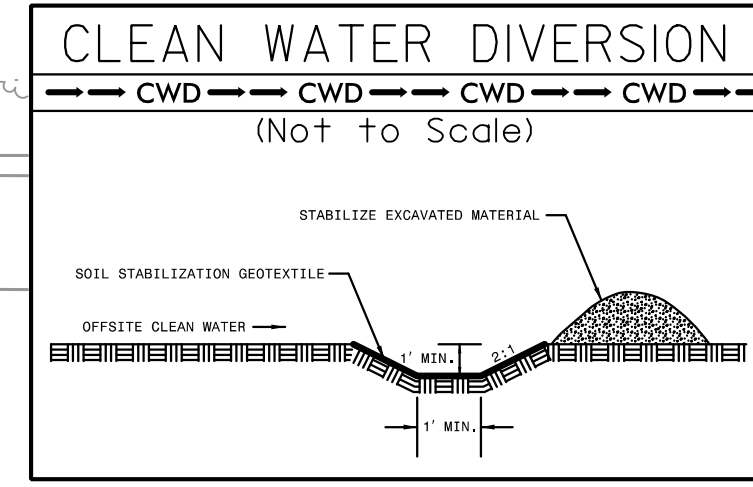
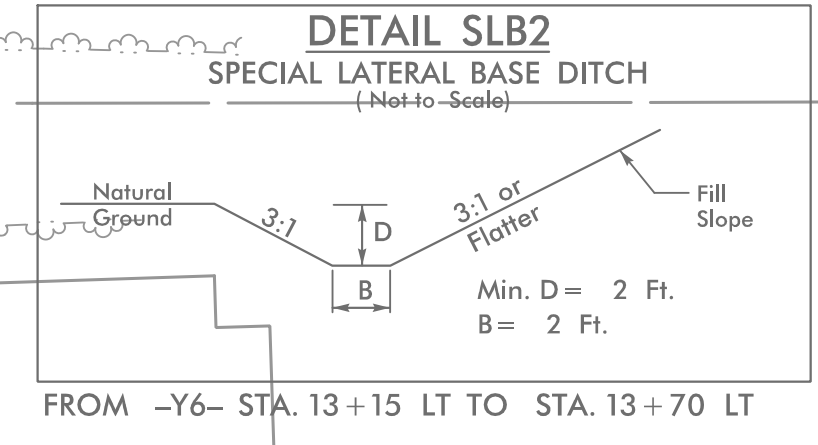
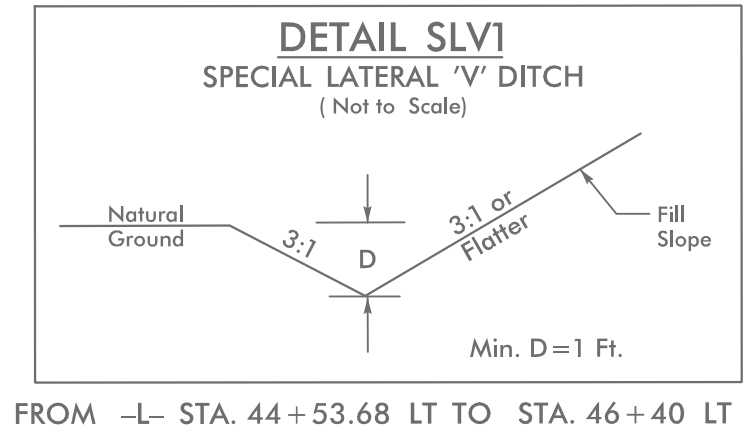
NOTE:
 1. ALL DRIVEWAYS HAVE 10' RADII UNLESS OTHERWISE NOTED.

FOR -L- PROFILE, SEE SHEETS 26 AND 27
 FOR -Y4RPA SLIP- PROFILE, SEE SHEET 38
 FOR -Y5- PROFILE, SEE SHEET 33
 FOR INTERSECTION DETAILS, SEE SHEETS 2B-1 AND 2B-2

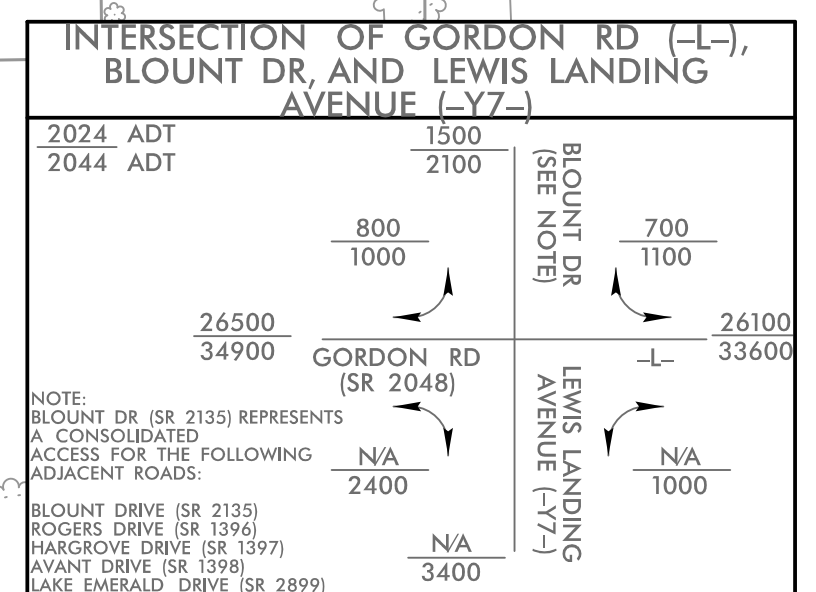
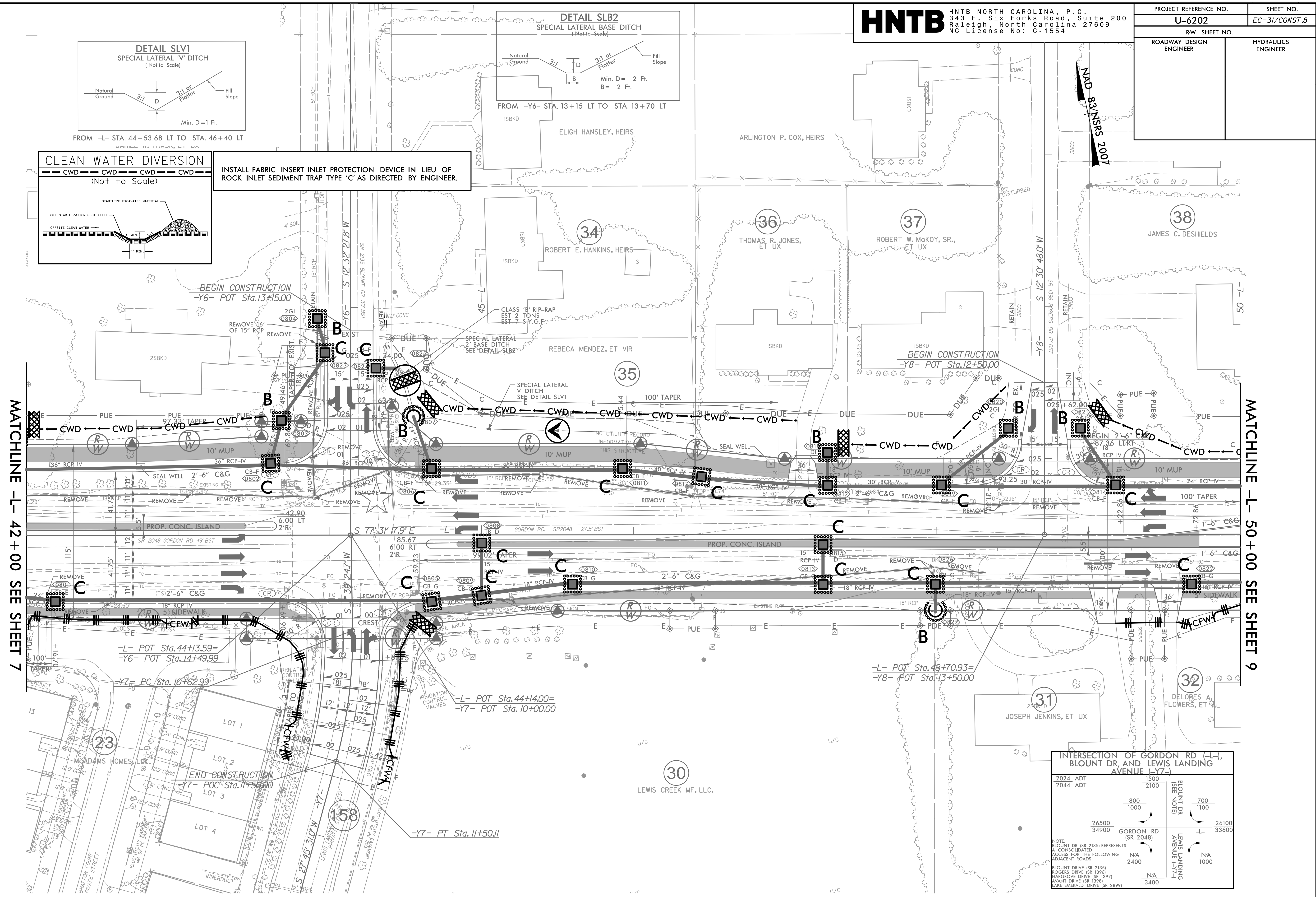
REVISIONS

4/17/2024
 4/17/2024
 4/17/2024

PROJECT REFERENCE NO.	SHEET NO.
U-6202	EC-31/CONST.8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED BY ENGINEER.



REVISIONS

MATCHLINE -L- 42+00 SEE SHEET 7

MATCHLINE -L- 50+00 SEE SHEET 9

NOTE:
 1. ALL DRIVEWAYS HAVE 10' RADII UNLESS OTHERWISE NOTED.

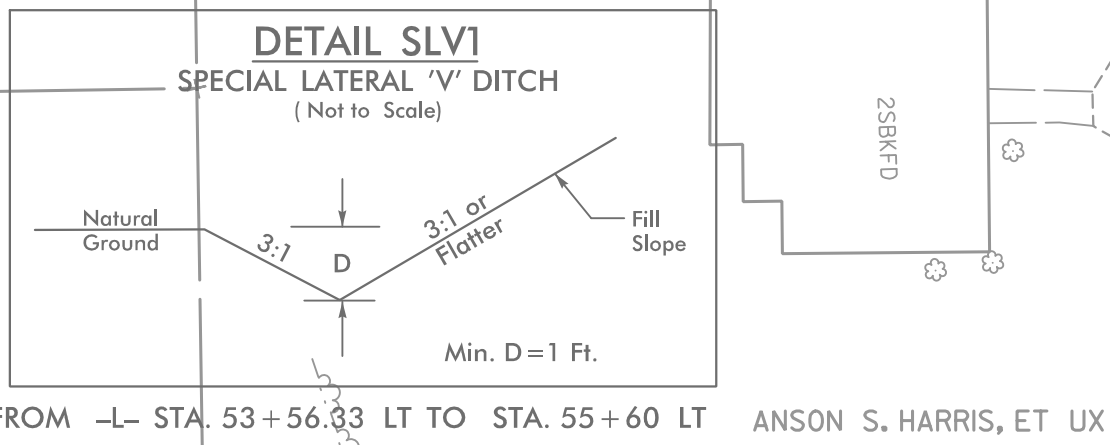
★ EXISTING SIGNAL

FOR -L- PROFILE, SEE SHEET 27
 FOR -Y6- PROFILE, SEE SHEET 33
 FOR -Y7- PROFILE, SEE SHEET 33
 FOR -Y8- PROFILE, SEE SHEET 34

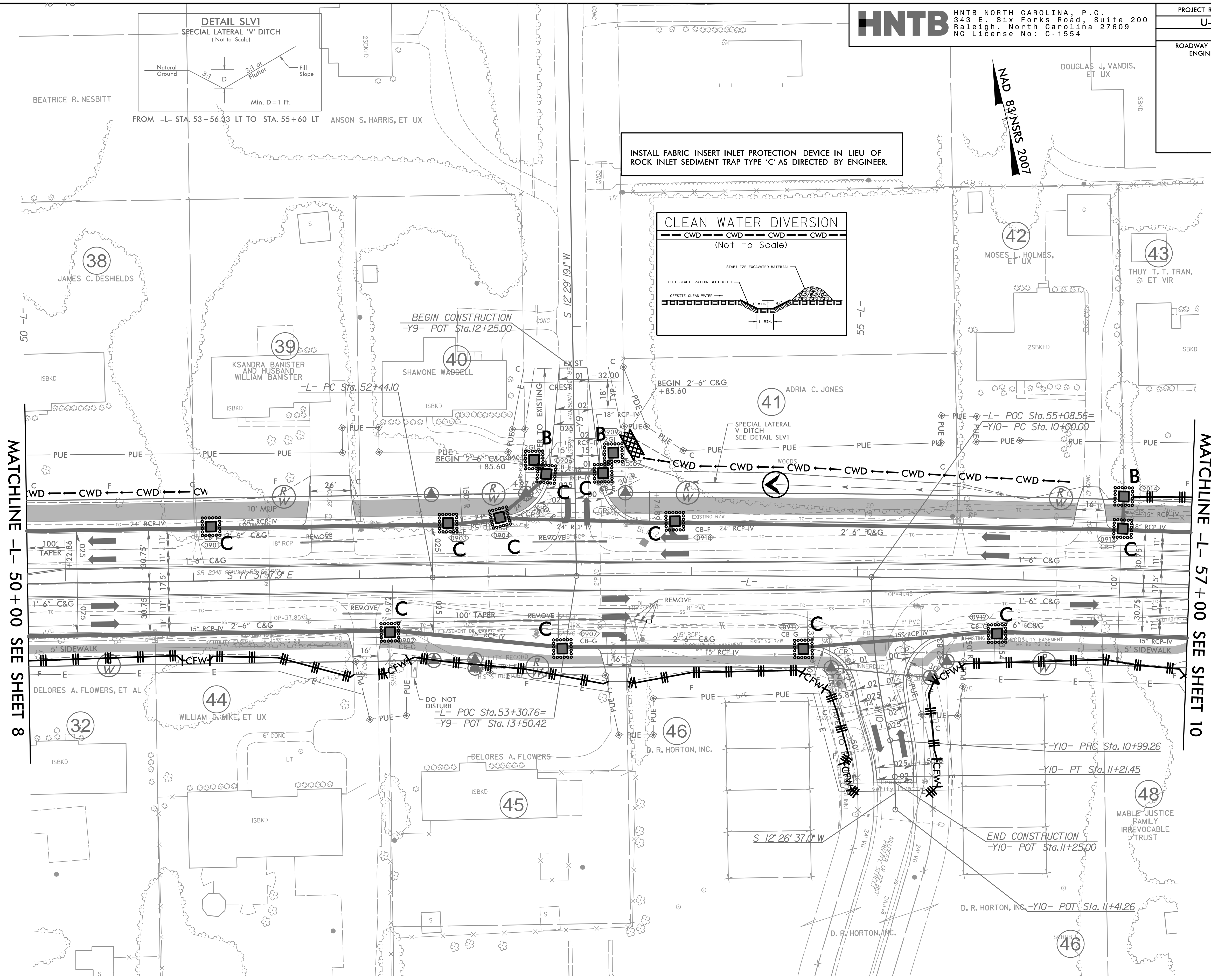
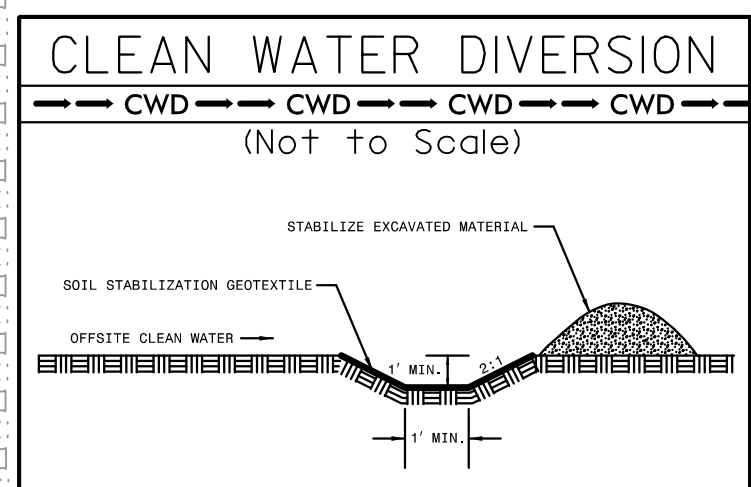
8/17/99
 4/17/2024
 EC.PSH8.dgn

PROJECT REFERENCE NO.	SHEET NO.
U-6202	EC-32/CONST.9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NSRS 2007



INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED BY ENGINEER.



MATCHLINE -L- 50 + 00 SEE SHEET 8

MATCHLINE -L- 57 + 00 SEE SHEET 10

REVISIONS

NOTE:
 1. ALL DRIVEWAYS HAVE 10' RADII UNLESS OTHERWISE NOTED.

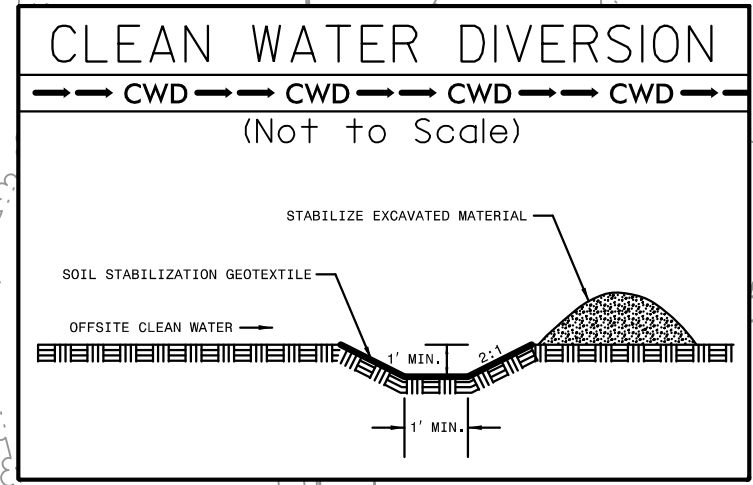
FOR -L- PROFILE, SEE SHEET 27
 FOR -Y9- PROFILE, SEE SHEET 34
 FOR -Y10- PROFILE, SEE SHEET 34
 FOR INTERSECTION DETAIL SEE SHEET 2B-2

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-6202	EC-33/CONST.10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

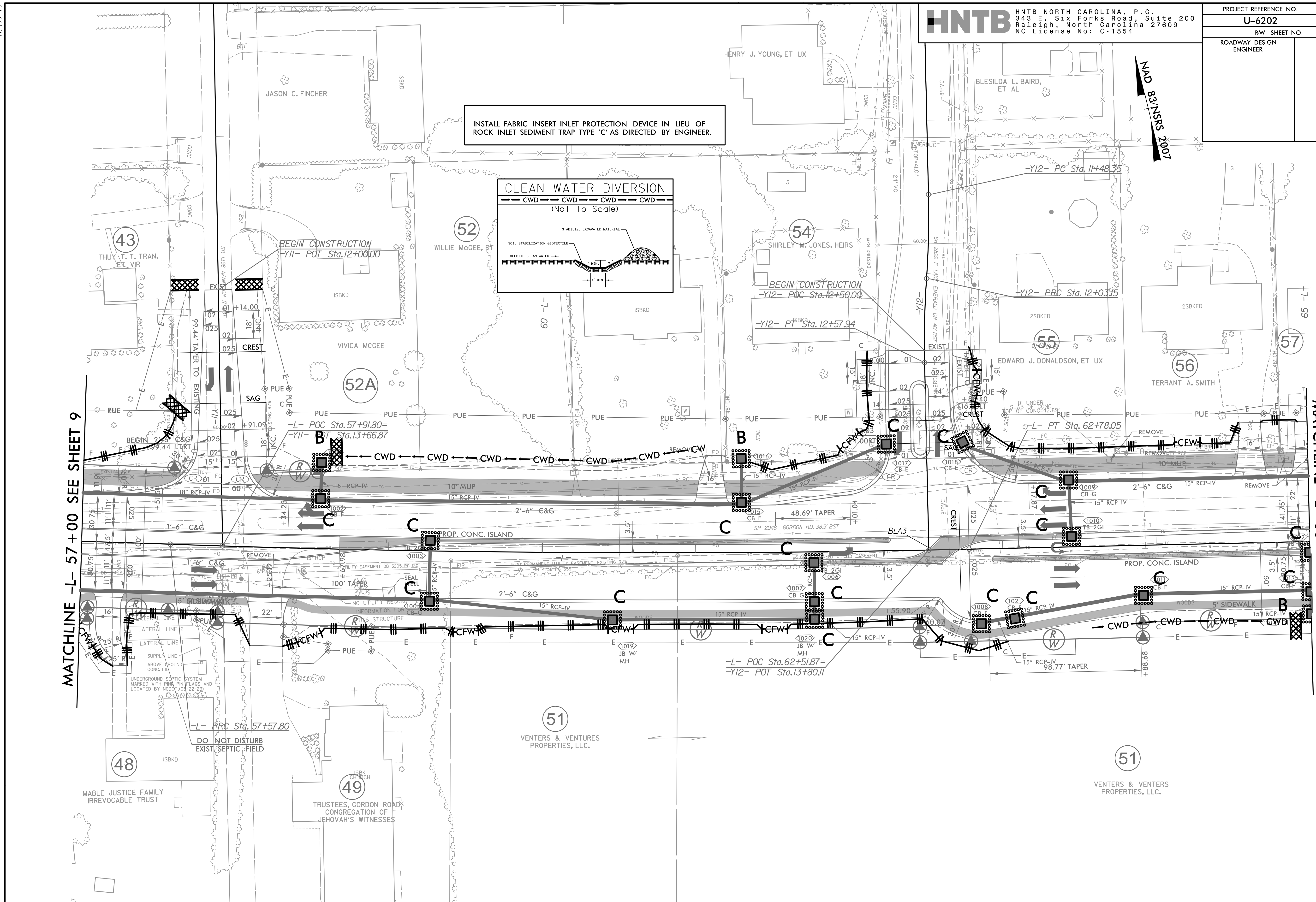
NAD 83/NSRS 2007

INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED BY ENGINEER.



MATCHLINE -L- 57 + 00 SEE SHEET 9

MATCHLINE -L- 65 + 00 SEE SHEET 11



NOTE:
 1. ALL DRIVEWAYS HAVE 10' RADII UNLESS OTHERWISE NOTED.

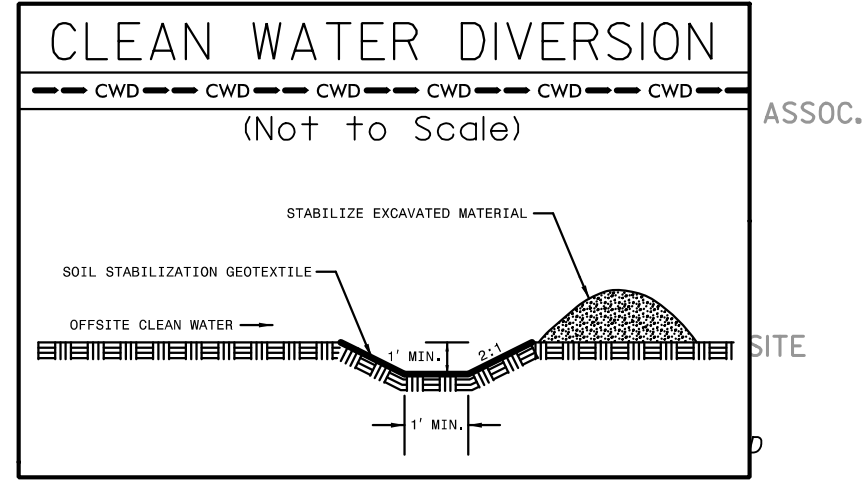
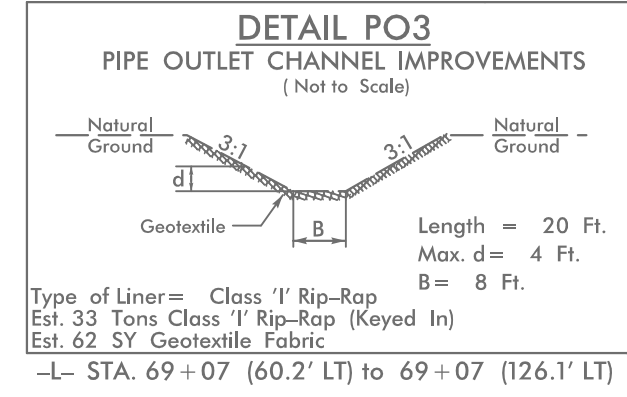
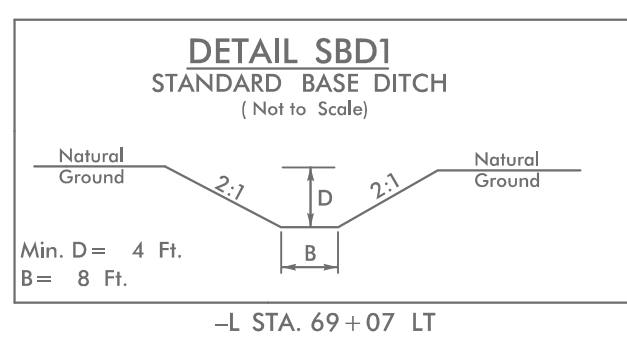
FOR -L- PROFILE, SEE SHEET 27
 FOR -Y11- PROFILE, SEE SHEET 34
 FOR -Y12- PROFILE, SEE SHEET 35
 FOR INTERSECTION DETAIL, SEE SHEET 2B-2

REVISIONS

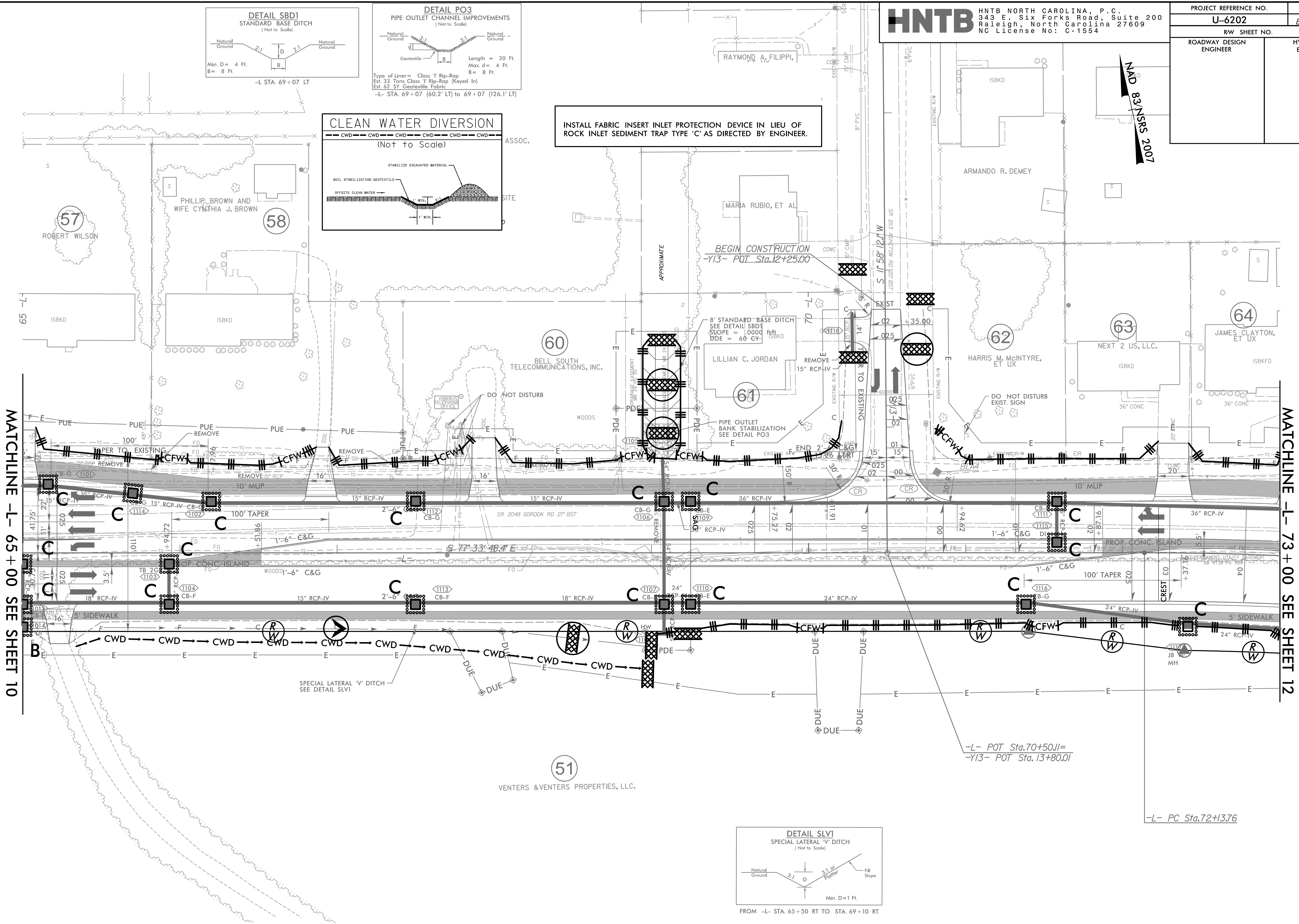
4/17/2024
 4/17/2024
 EC-PSH10.dgn

8/17/99

PROJECT REFERENCE NO. U-6202	SHEET NO. EC-34/CONST/II
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED BY ENGINEER.

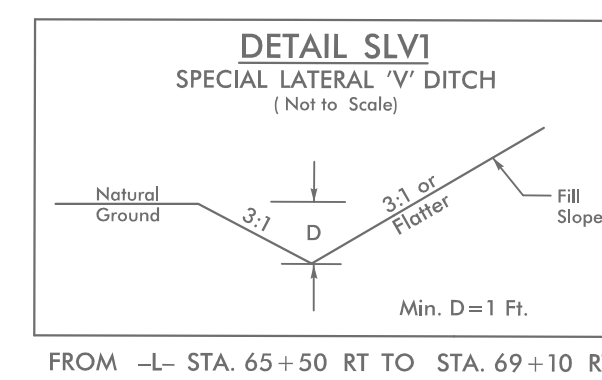


REVISIONS

MATCHLINE -L- 65 + 00 SEE SHEET 10

MATCHLINE -L- 73 + 00 SEE SHEET 12

51
 VENTERS & VENTERS PROPERTIES, LLC.



NOTE:
 1. ALL DRIVEWAYS HAVE 10' RADII UNLESS OTHERWISE NOTED.

FOR -L- PROFILE, SEE SHEET 28
 FOR -Y13- PROFILE, SEE SHEET 35

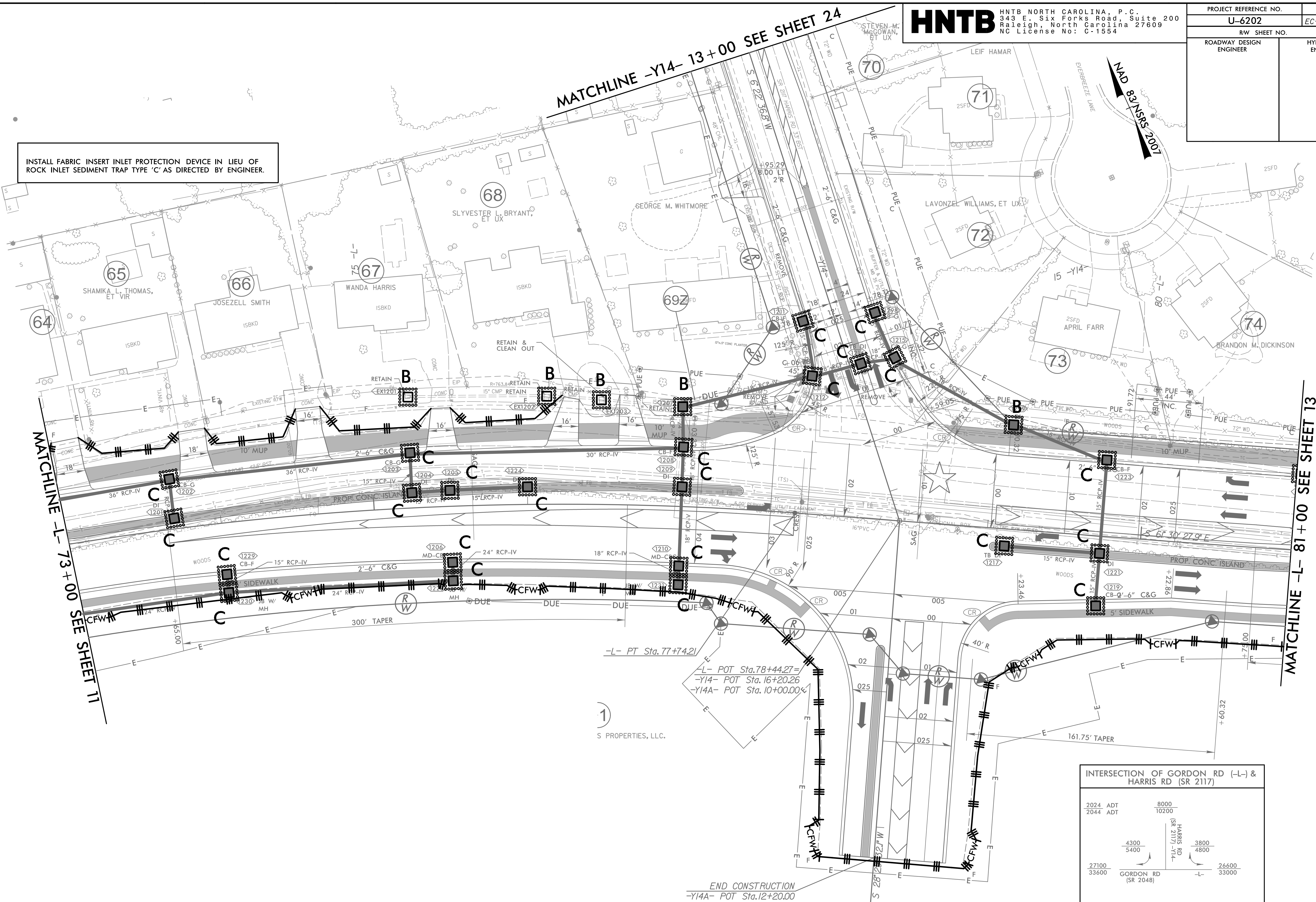
4/17/2024
 4/17/2024 EC_PSH11.dgn
 HNTB

8/17/99

4/17/2024
4/26/2022
6/16/2022
EC_PSH12.dgn
HNTB

PROJECT REFERENCE NO. U-6202	SHEET NO. EC-35/CONST.12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

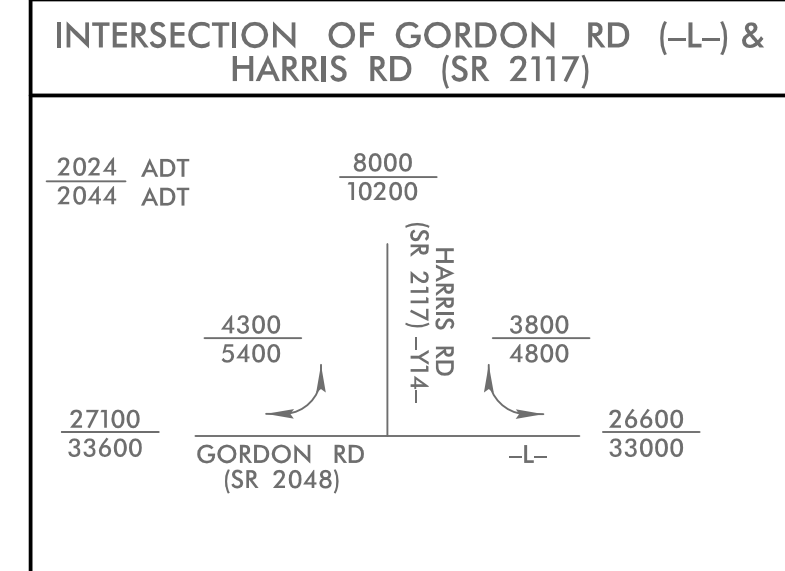
INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED BY ENGINEER.



REVISIONS

NOTE:
1. ALL DRIVEWAYS HAVE 10' RADII UNLESS OTHERWISE NOTED.

★ EXISTING SIGNAL



FOR -L- PROFILE, SEE SHEET 28
FOR -Y14- PROFILE, SEE SHEET 35
FOR -Y14A- PROFILE, SEE SHEET 38
FOR INTERSECTION DETAIL, SEE SHEET 28-2

PROJECT REFERENCE NO.	SHEET NO.
U-6202	EC-36/CONST.13
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

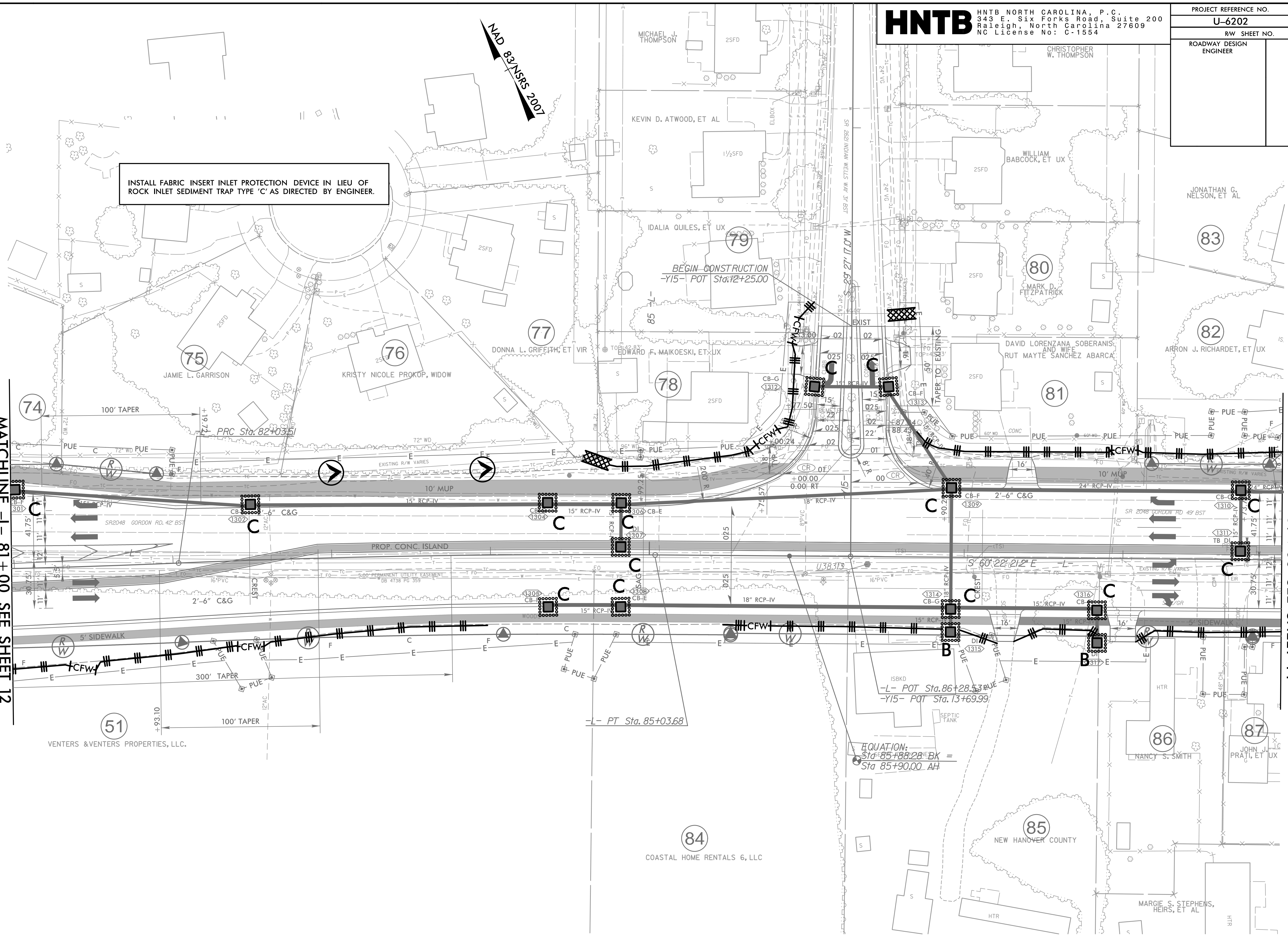
NAD 83 NSRS 2007

INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED BY ENGINEER.

REVISIONS

MATCHLINE -L- 81+00 SEE SHEET 12

MATCHLINE -L- 89+00 SEE SHEET 14

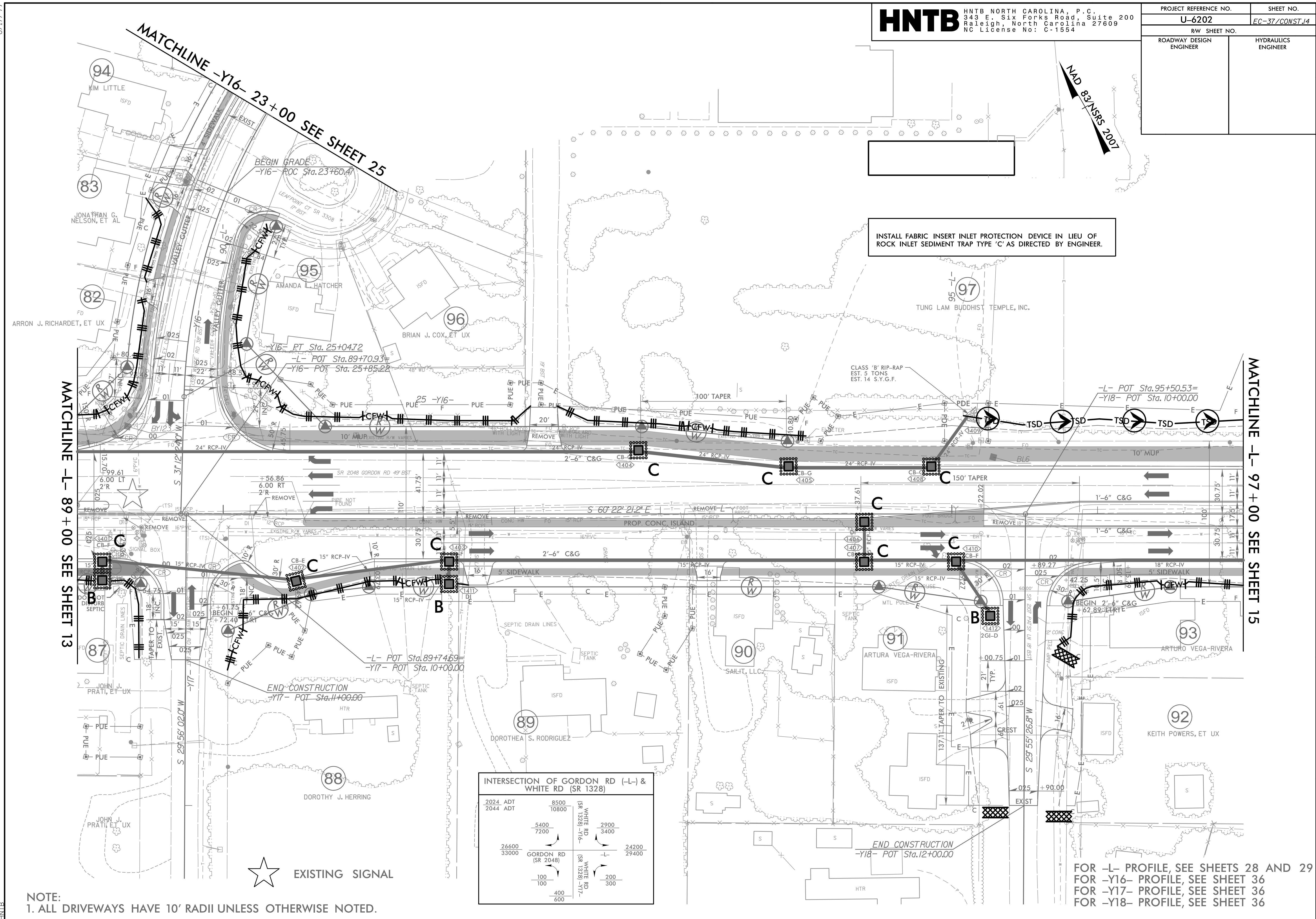
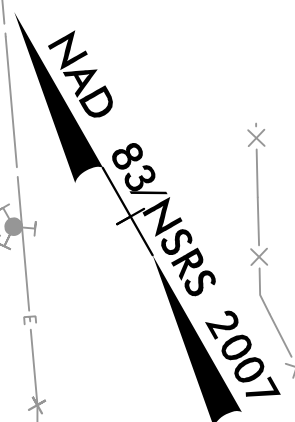


NOTE:
 1. ALL DRIVEWAYS HAVE 10' RADII UNLESS OTHERWISE NOTED.

FOR -L- PROFILE, SEE SHEET 28
 FOR -Y15- PROFILE, SEE SHEET 35

8/17/99
 4/17/2024
 HNTB

PROJECT REFERENCE NO.	SHEET NO.
U-6202	EC-37/CONST.14
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



INSTALL FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE 'C' AS DIRECTED BY ENGINEER.

CLASS 'B' RIP-RAP EST. 5 TONS EST. 14 S.Y.G.F.

INTERSECTION OF GORDON RD (-L-) & WHITE RD (SR 1328)

2024 ADT	8500	WHITE RD (SR 1328) -Y16-	2900
2044 ADT	10800	WHITE RD (SR 1328) -Y17-	3400
	5400		
	7200		
26600			24200
33000			29400
	100		200
	100		300
	400		
	600		



NOTE:
 1. ALL DRIVEWAYS HAVE 10' RADII UNLESS OTHERWISE NOTED.

MATCHLINE -L- 89 + 00 SEE SHEET 13

MATCHLINE -Y16- 23 + 00 SEE SHEET 25

MATCHLINE -L- 97 + 00 SEE SHEET 15

REVISIONS

8/17/99
 4/17/2024
 10/16/2022.EC.PSH14.dgn
 HNTB