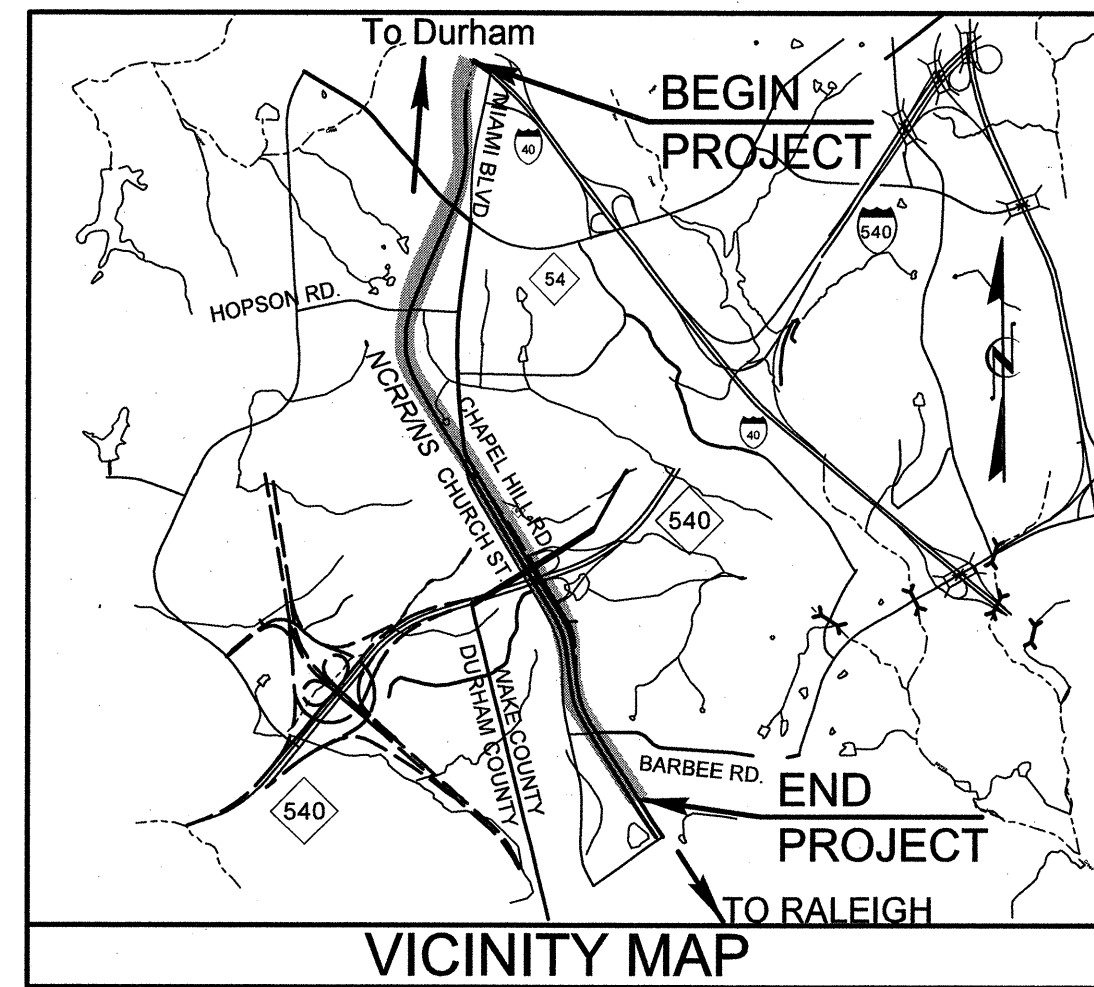


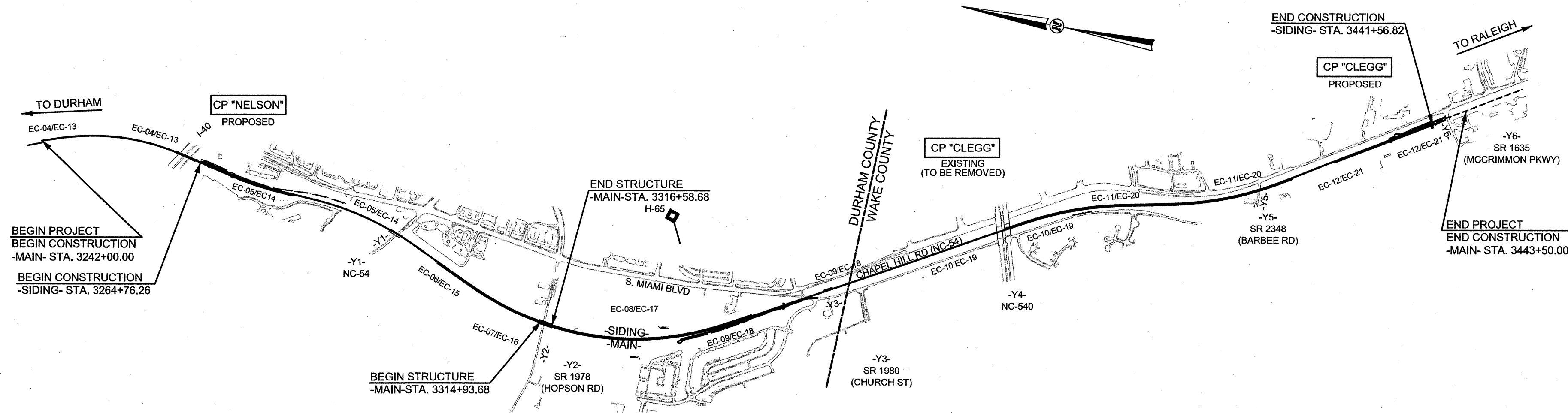
TIP PROJECT: U-4716A/C



STATE OF NORTH CAROLINA
RAIL DIVISION
PLAN FOR PROPOSED
RAILROAD EROSION CONTROL
DURHAM AND WAKE COUNTIES

LOCATION: CP "NELSON" (MP H-63.2) TO CP "CLEGG" (MP H-67.0)
ON THE N.C. RR'S H-LINE

TYPE OF WORK: TRACK REALIGNMENT, NEW SIDING TRACK,
AND GRADE SEPARATION STRUCTURE



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4716A/C	EC-01	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
54000.1		P.E.	
54000.3.STR01T4A		UTL. & CONST.	

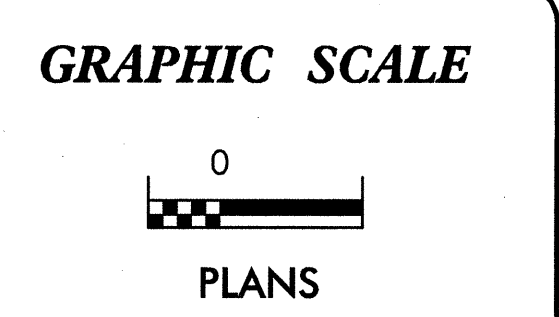
EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1607.01	Temp. Gravel Const. Entrance	[Symbol]
1630.03	Temporary Silt Ditch	[Symbol]
1630.05	Temporary Diversion	[Symbol]
1605.01	Temporary Silt Fence	[Symbol]
1606.01	Special Sediment Control Fence	[Symbol]
1622.01	Temporary Berms and Slope Drains	[Symbol]
1630.02	Silt Basin Type B	[Symbol]
1633.01	Temporary Rock Silt Check Type-A	[Symbol]
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	[Symbol]
1633.02	Temporary Rock Silt Check Type-B	[Symbol]
	Wattle / Coir Fiber Wattle	[Symbol]
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	[Symbol]
1634.01	Temporary Rock Sediment Dam Type-A	[Symbol]
1634.02	Temporary Rock Sediment Dam Type-B	[Symbol]
1635.01	Rock Pipe Inlet Sediment Trap Type-A	[Symbol]
1635.02	Rock Pipe Inlet Sediment Trap Type-B	[Symbol]
	Rock Inlet Sediment Trap:	
1632.01	Type A	[Symbol]
1632.02	Type B	[Symbol]
1632.03	Type C	[Symbol]
	Skimmer Basin	[Symbol]
	Tiered Skimmer Basin	[Symbol]
	Infiltration Basin	[Symbol]

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



ROADSIDE ENVIRONMENTAL UNIT
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

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

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

2012 STANDARD SPECIFICATIONS

EROSION CONTROL
LEVEL 111-A
CERTIFICATION #625
JAMES A. BYRD, P.E.

Roadway Standard Drawings

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

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

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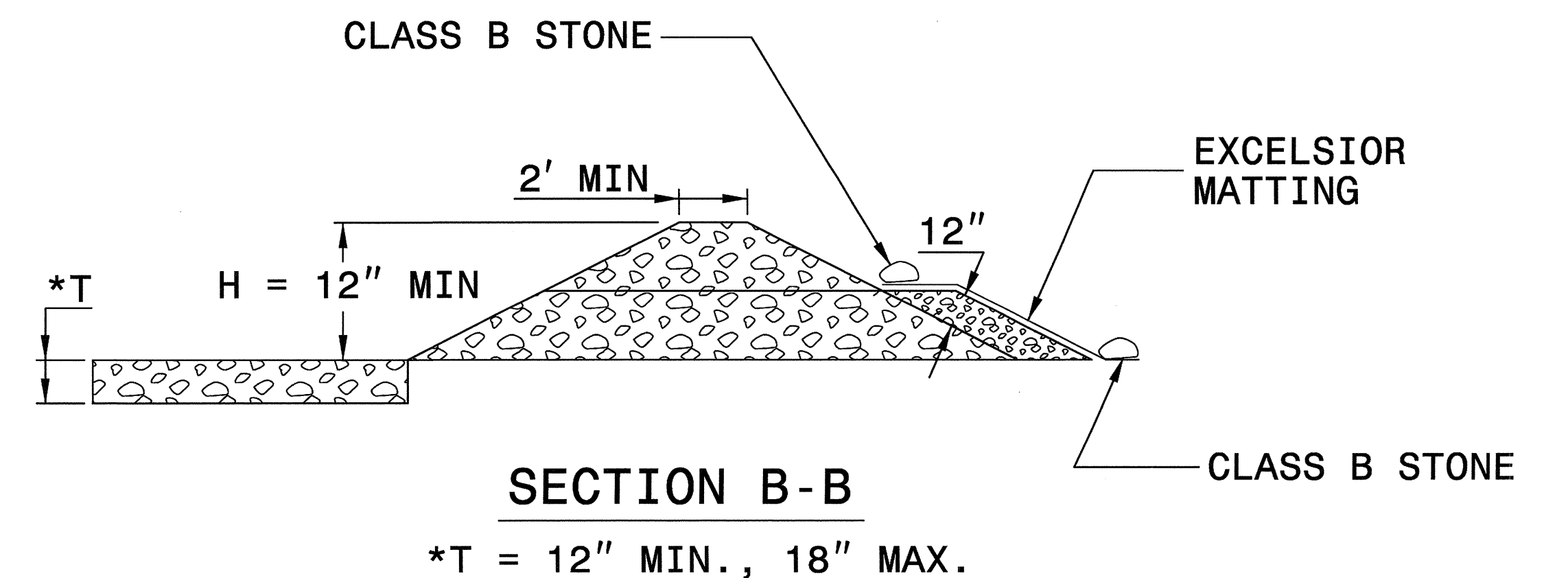
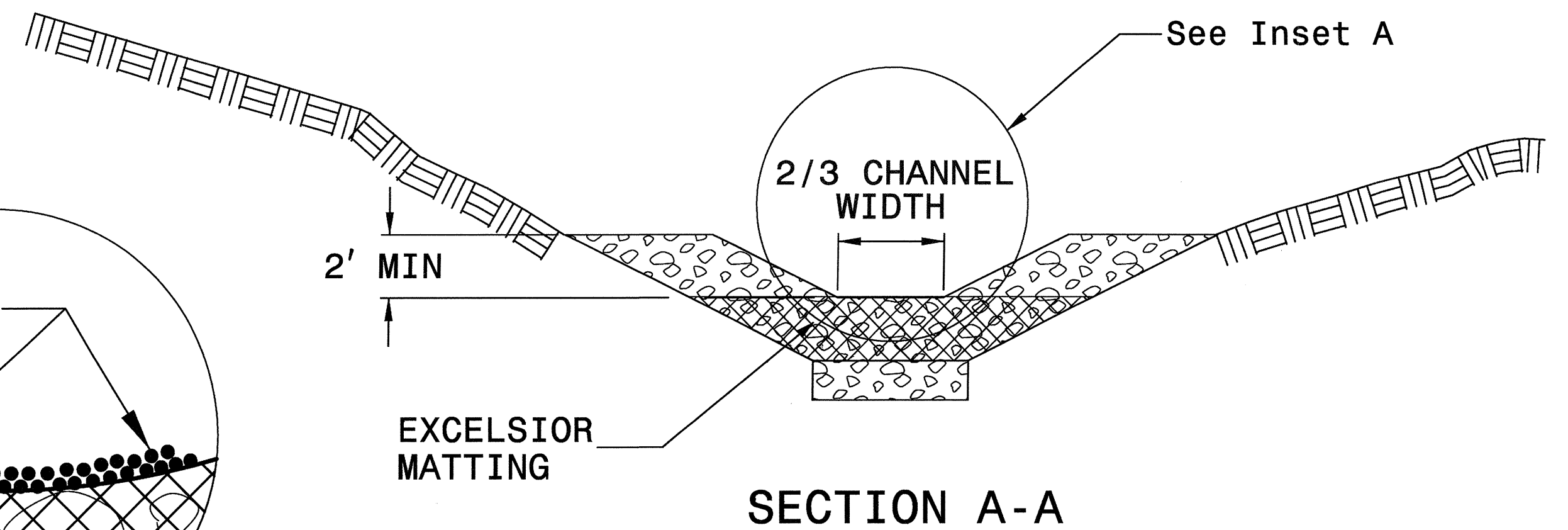
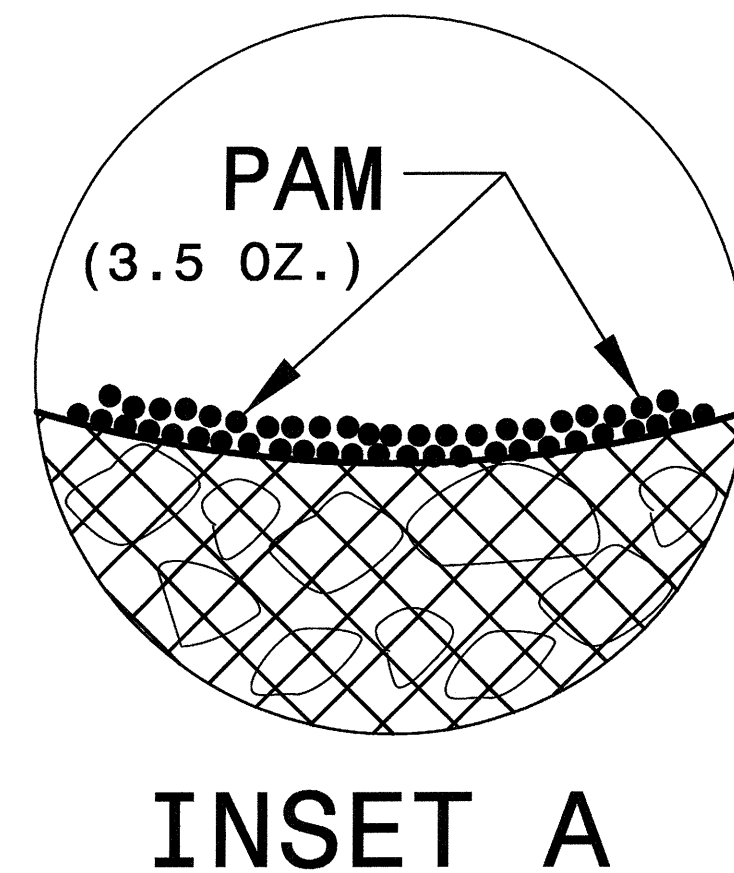
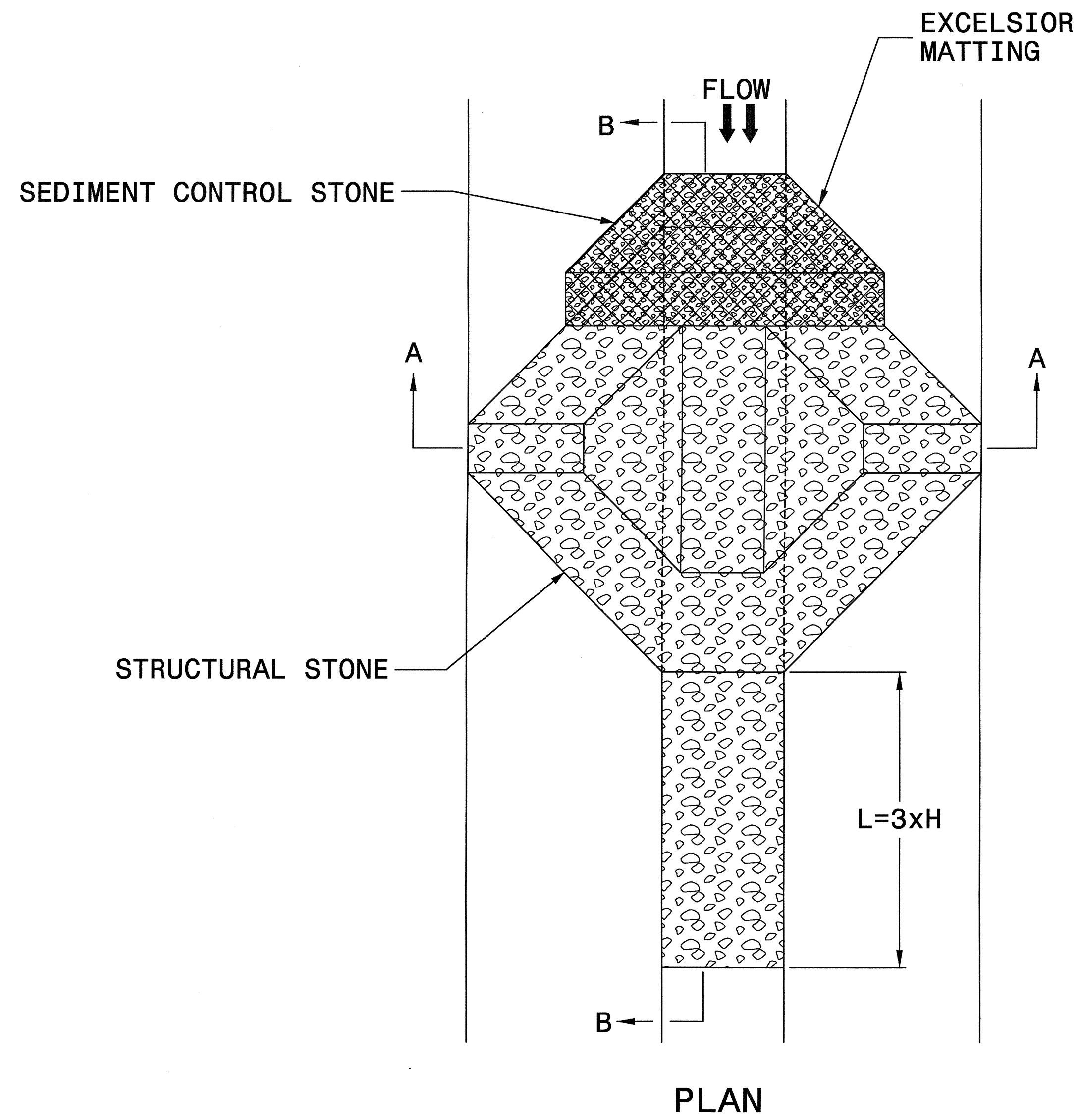
TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM) STD. 1633.01

NOTES

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

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

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



NOT TO SCALE

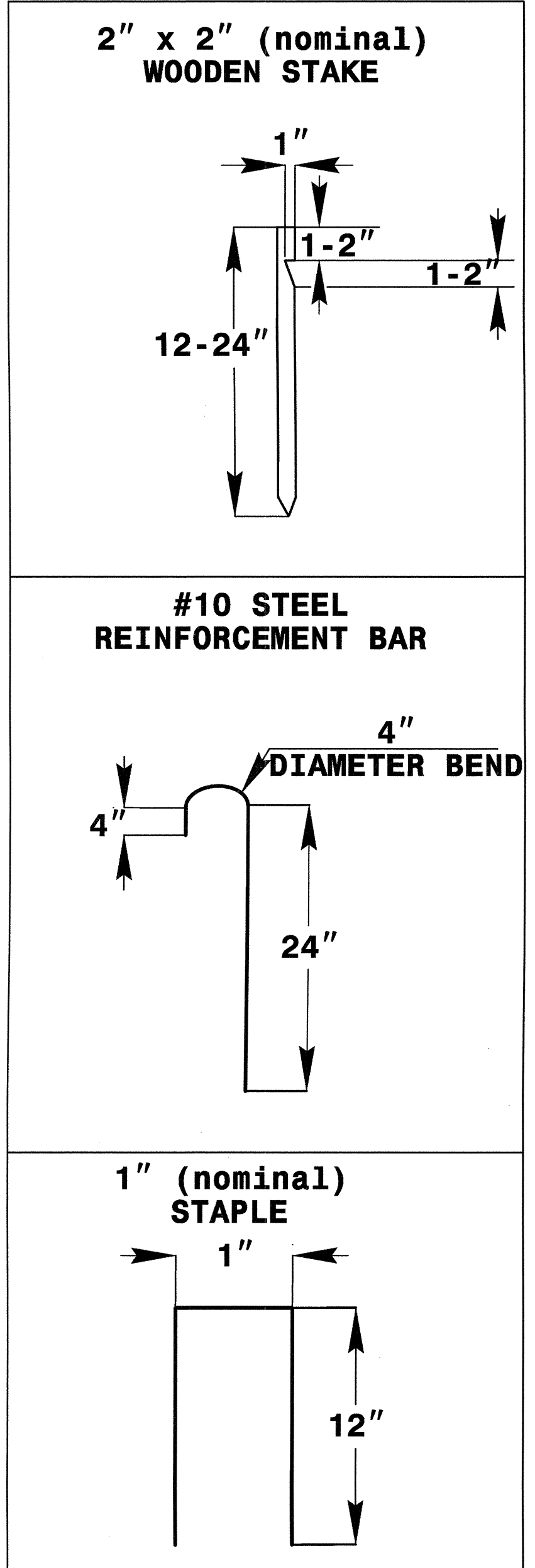
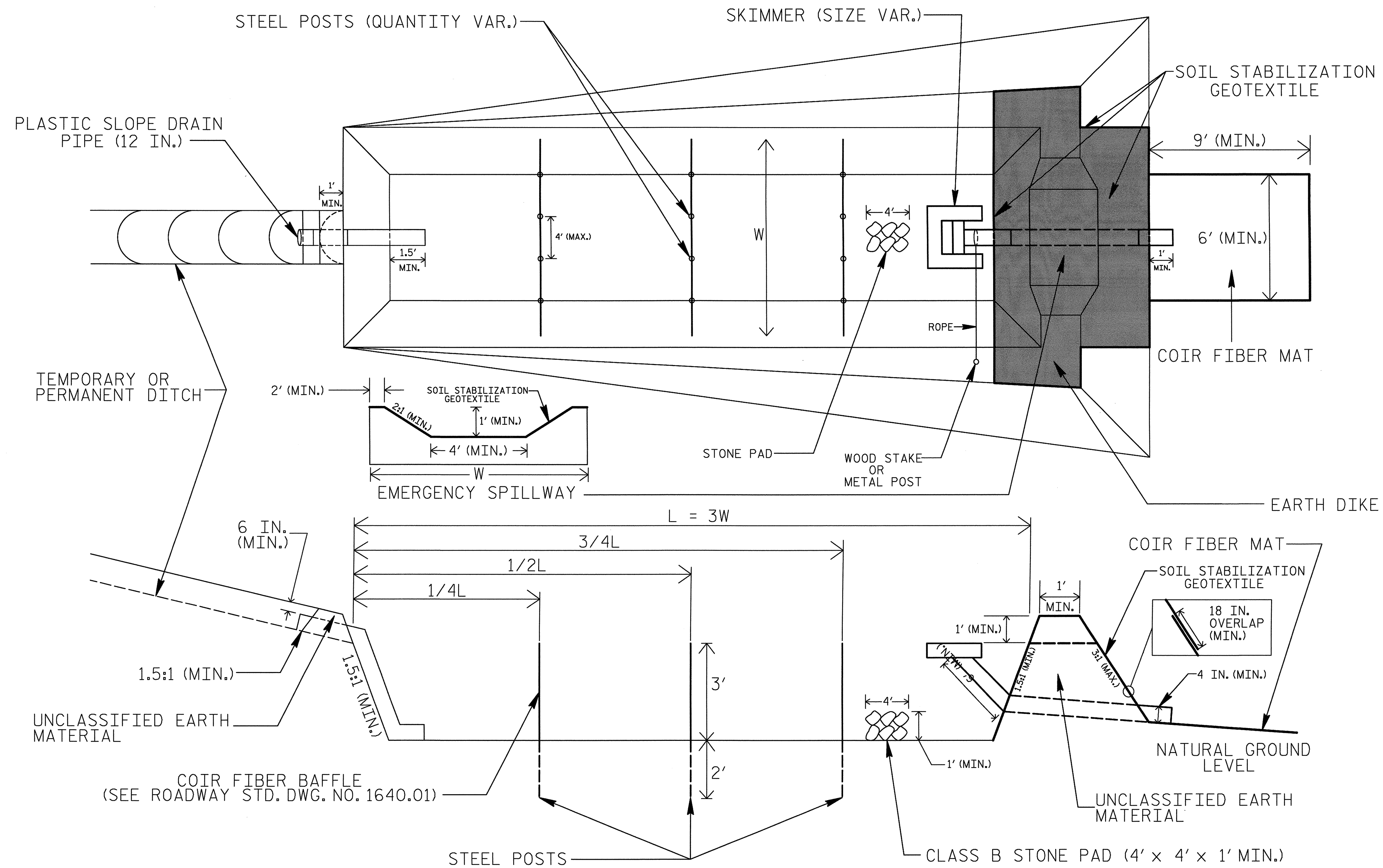
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NO.	BY	DATE	REVISION

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
RAIL DIVISION
 PREPARED BY:
HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554

PROJECT U-4716 A/C CLEGG PASSING SIDING & HOPSON RD. GRADE SEPARATION			
TITLE EROSION CONTROL DETAILS (1 OF 4)			
LOCATION CP "NELSON" TO CP "CLEGG"	RAILROAD NS / NCRR		MILE POST H-63.2 TO H-67.0
DGN BY FJM	VAL SEC V-24 /16-17	DRAWING EC-2A	
CHK BY JAB	DATE 7/31/12	SCALE	

SKIMMER BASIN WITH BAFFLES DETAIL



COIR FIBER MAT ANCHOR OPTIONS


NOTES

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

NOT TO SCALE

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

RAIL DIVISION

PREPARED BY:
HNTB
 HNTB NORTH CAROLINA, P.C.
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 Raleigh, North Carolina 27609
 NC License No: C-1554

PROJECT U-4716 AC CLEGG PASSING SIDING & HOPSON RD. GRADE SEPARATION			
TITLE EROSION CONTROL DETAILS (2 OF 4)			
LOCATION CP "NELSON" TO CP "CLEGG"	RAILROAD NS / NCRR		MILE POST H-63.2 TO H-67.0
DGN BY FJM	VAL SEC V-24 /16-17	DRAWING EC-2B	
DWN BY RAC	DATE 7/31/12	SCALE	
CHK BY JAB			

COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL

NOTES:

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

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

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

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

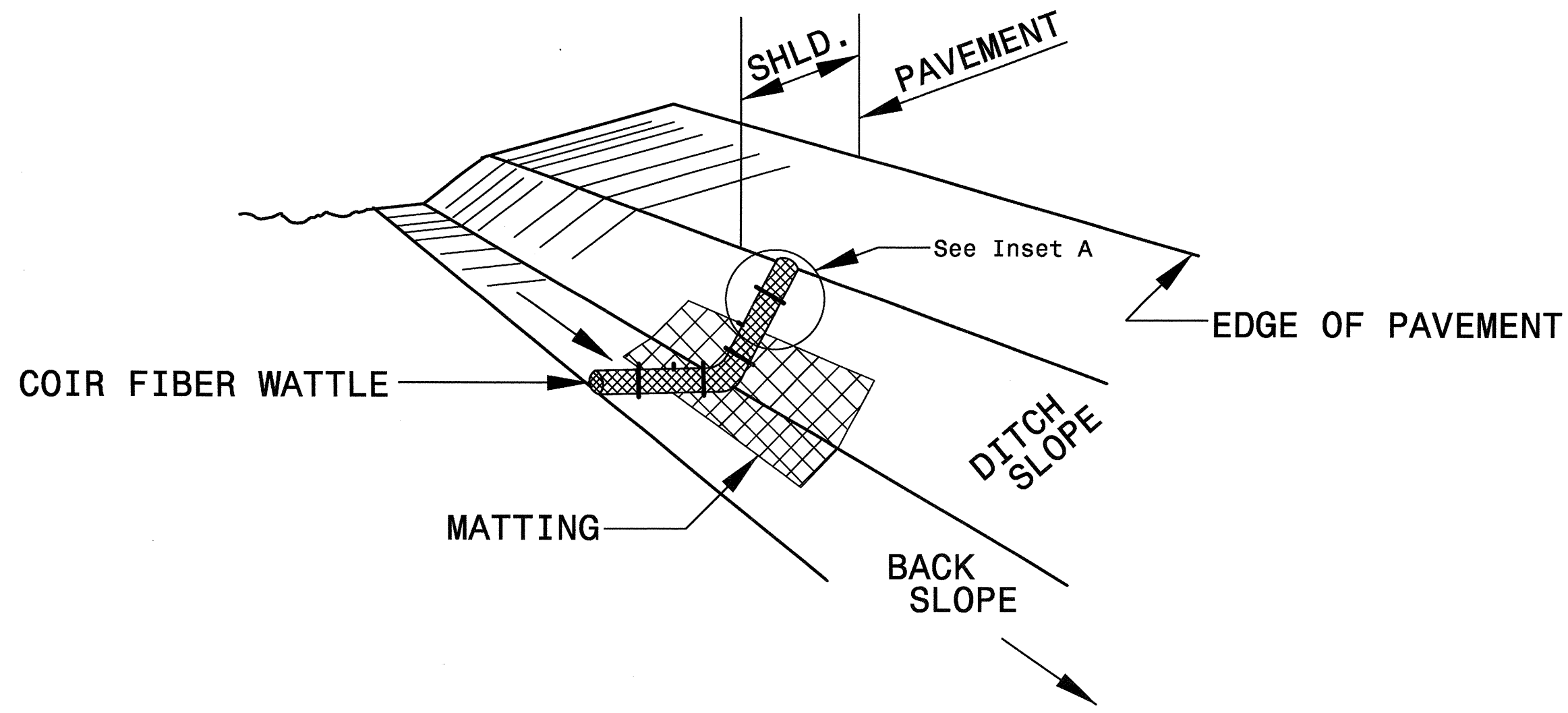
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

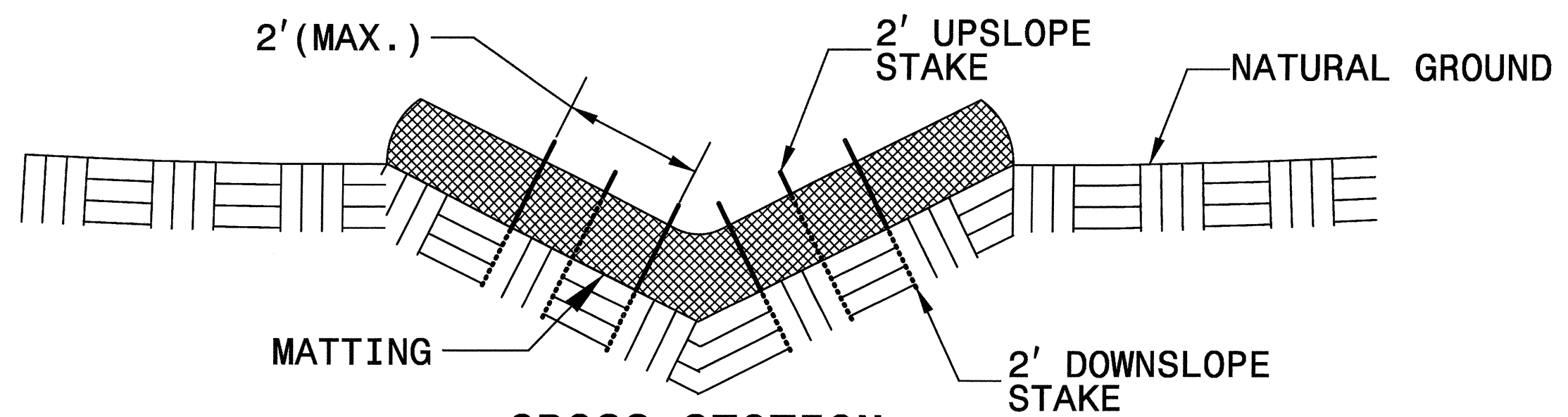
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

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

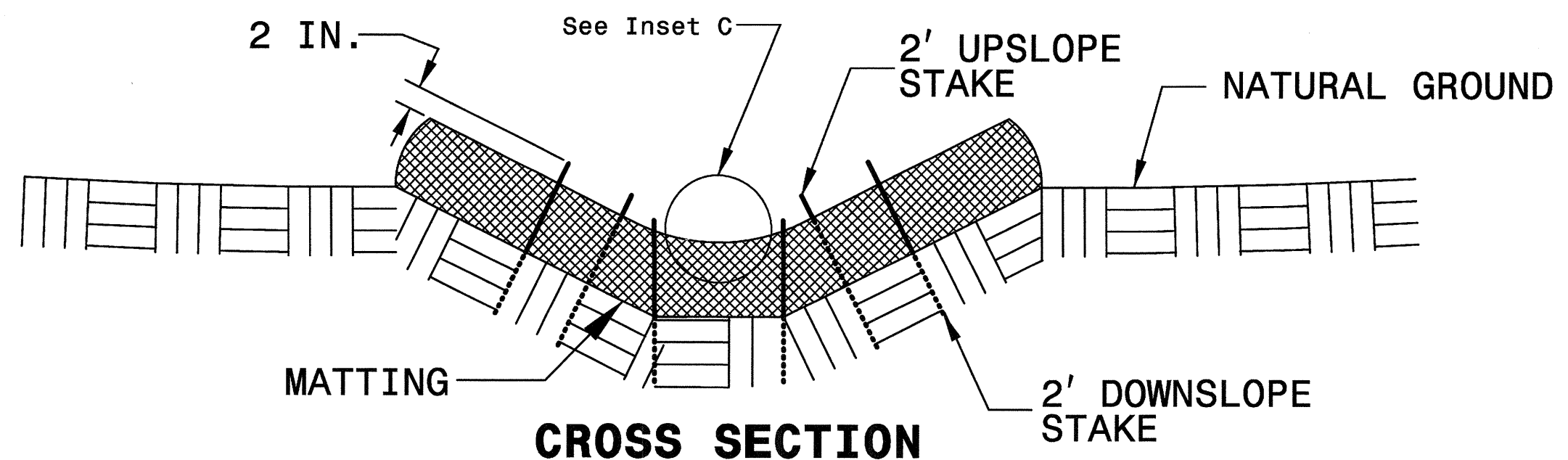
INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



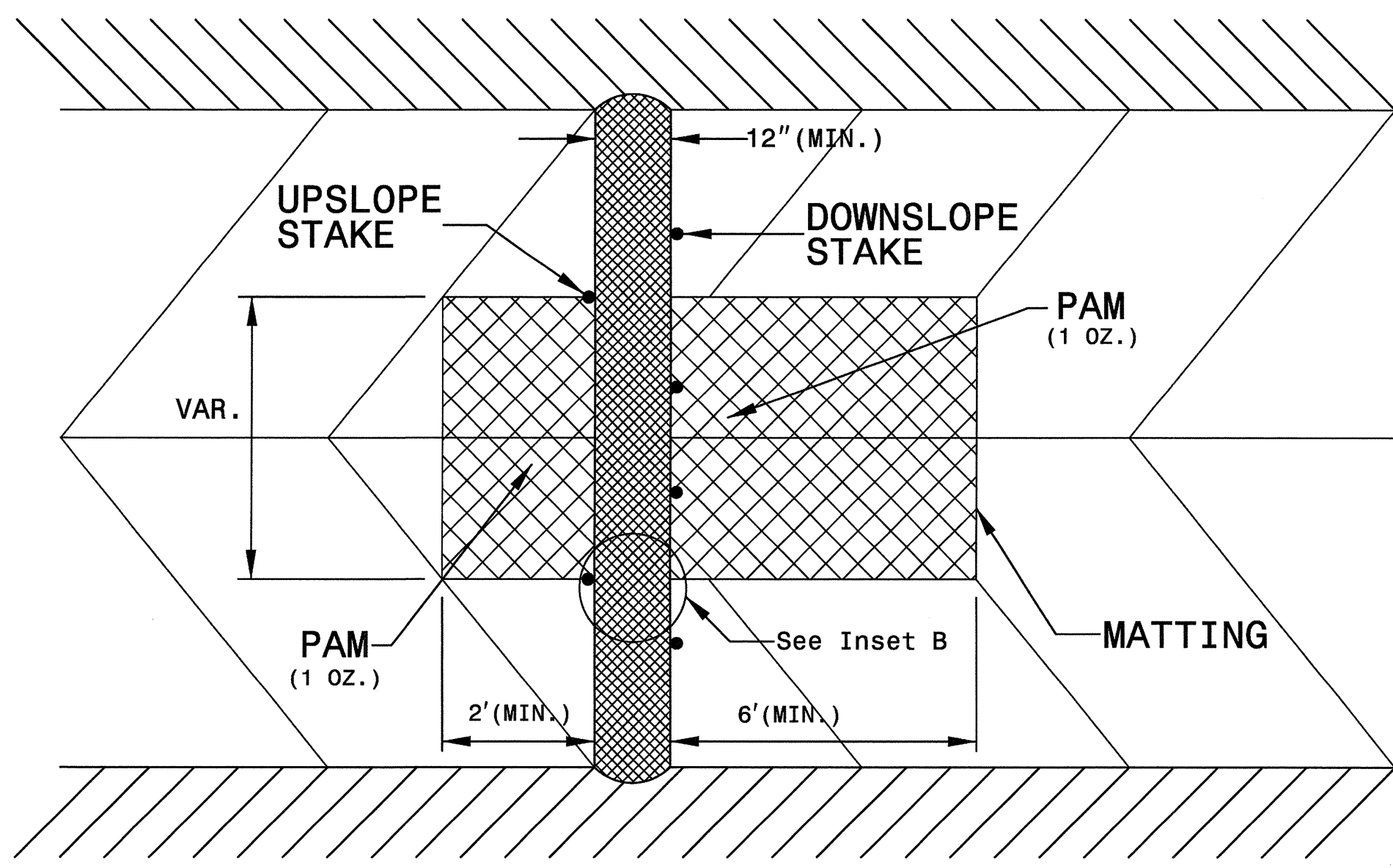
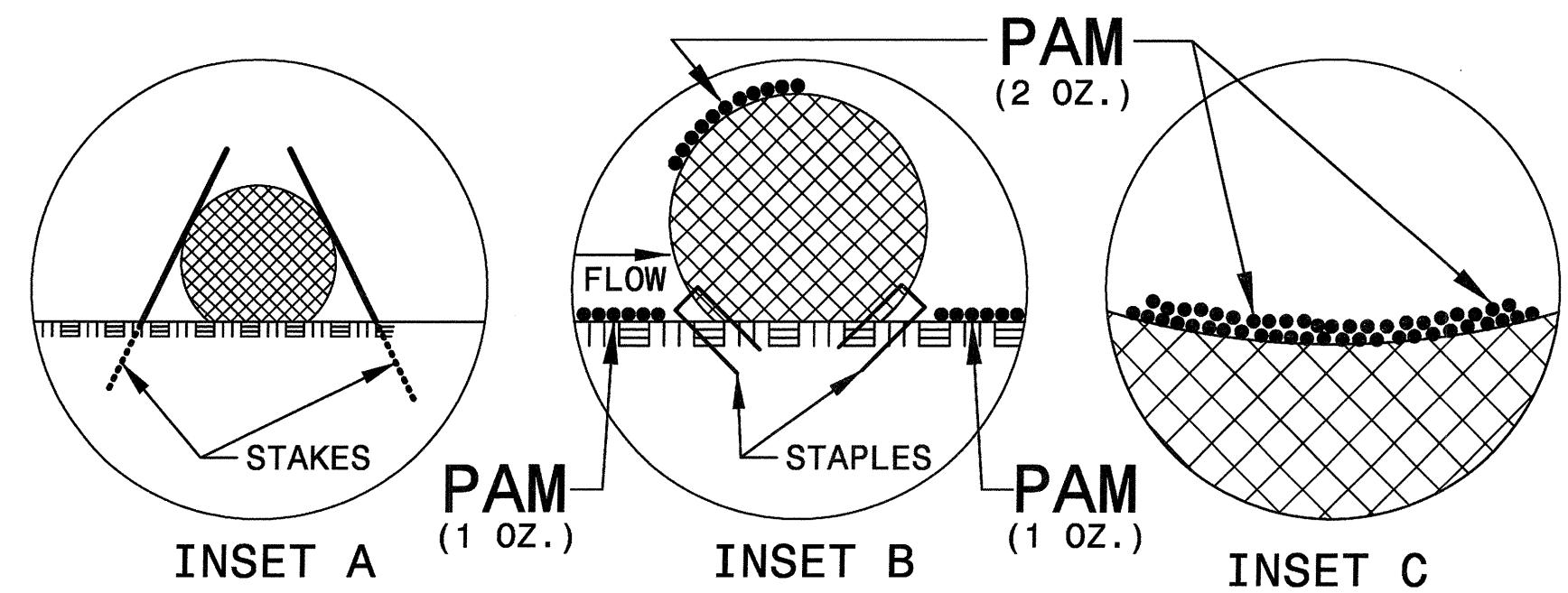
ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH



TOP VIEW

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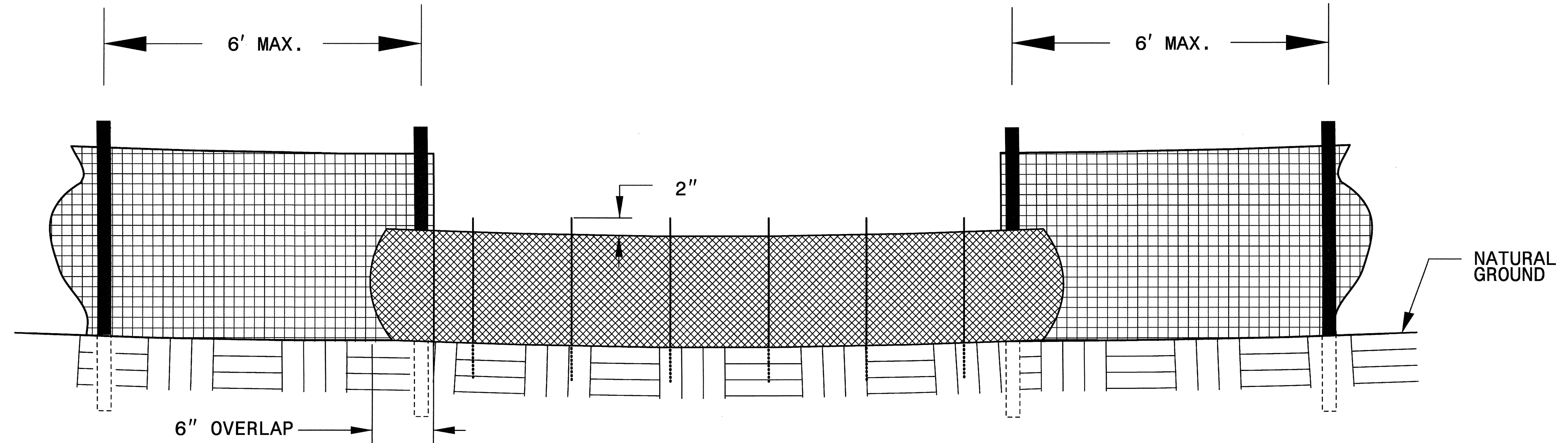
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NO.	BY	DATE	REVISION

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
RAIL DIVISION
 PREPARED BY: **HNTB**
 HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554

PROJECT	U-4716 AC CLEGG PASSING SIDING & HOPSON RD. GRADE SEPARATION		
TITLE	EROSION CONTROL DETAILS (3 OF 4)		
LOCATION	CP "NELSON" TO CP "CLEGG"	MILE POST	H-63.2 TO H-67.0
DGN BY	FJM	RAILROAD	NS / NCRR
DWN BY	RAC	VAL SEC	V-24 /16-17
CHK BY	JAB	DATE	7/31/12
		SCALE	
		DRAWING	EC-2C

COIR FIBER WATTLE SILT FENCE BREAK DETAIL



CROSS SECTION

NOTES:

INSTALL WATTLE WITH A 6" OVERLAP OF SILT FENCE.

DO NOT USE WATTLES TREATED WITH PAM

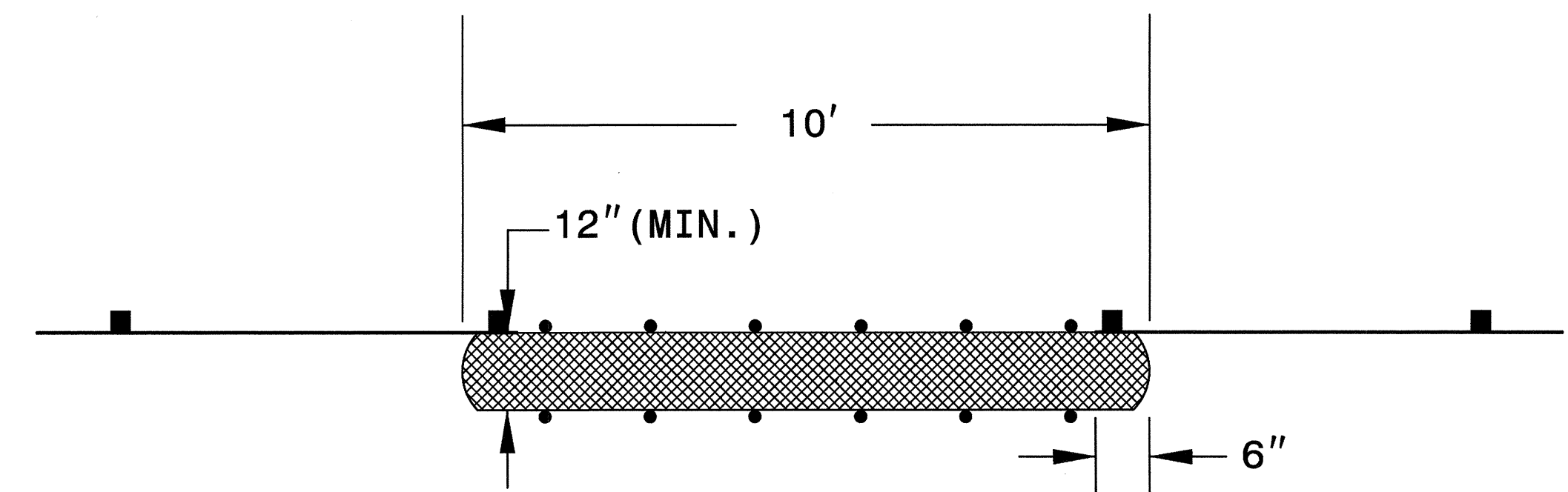
USE MINIMUM 12 IN. DIAMETER, 10 FT. LENGTH COIR FIBER (COCONUT FIBER) WATTLE.

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

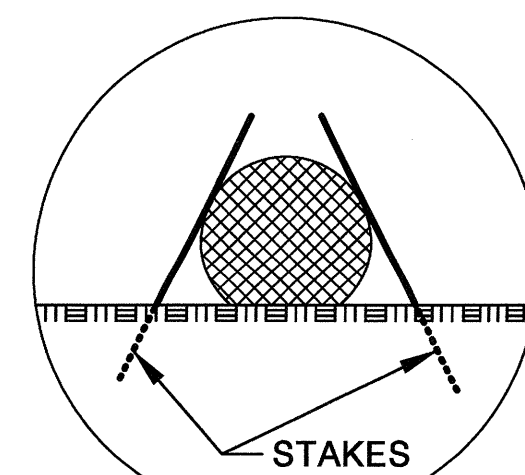
INSTALL STAKES AT A MINIMUM SPACING OF 2' AND INSERT STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

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

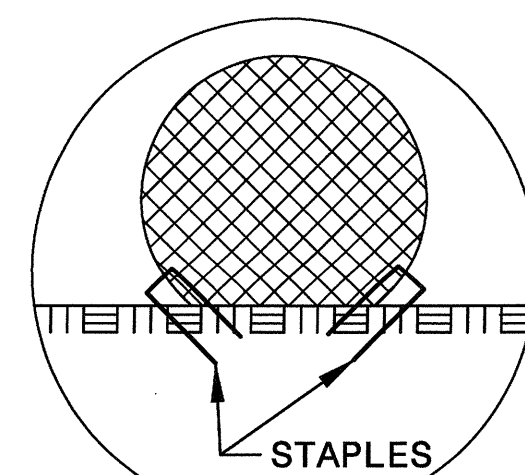
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.



TOP VIEW



INSET A




INSET B

NOT TO SCALE

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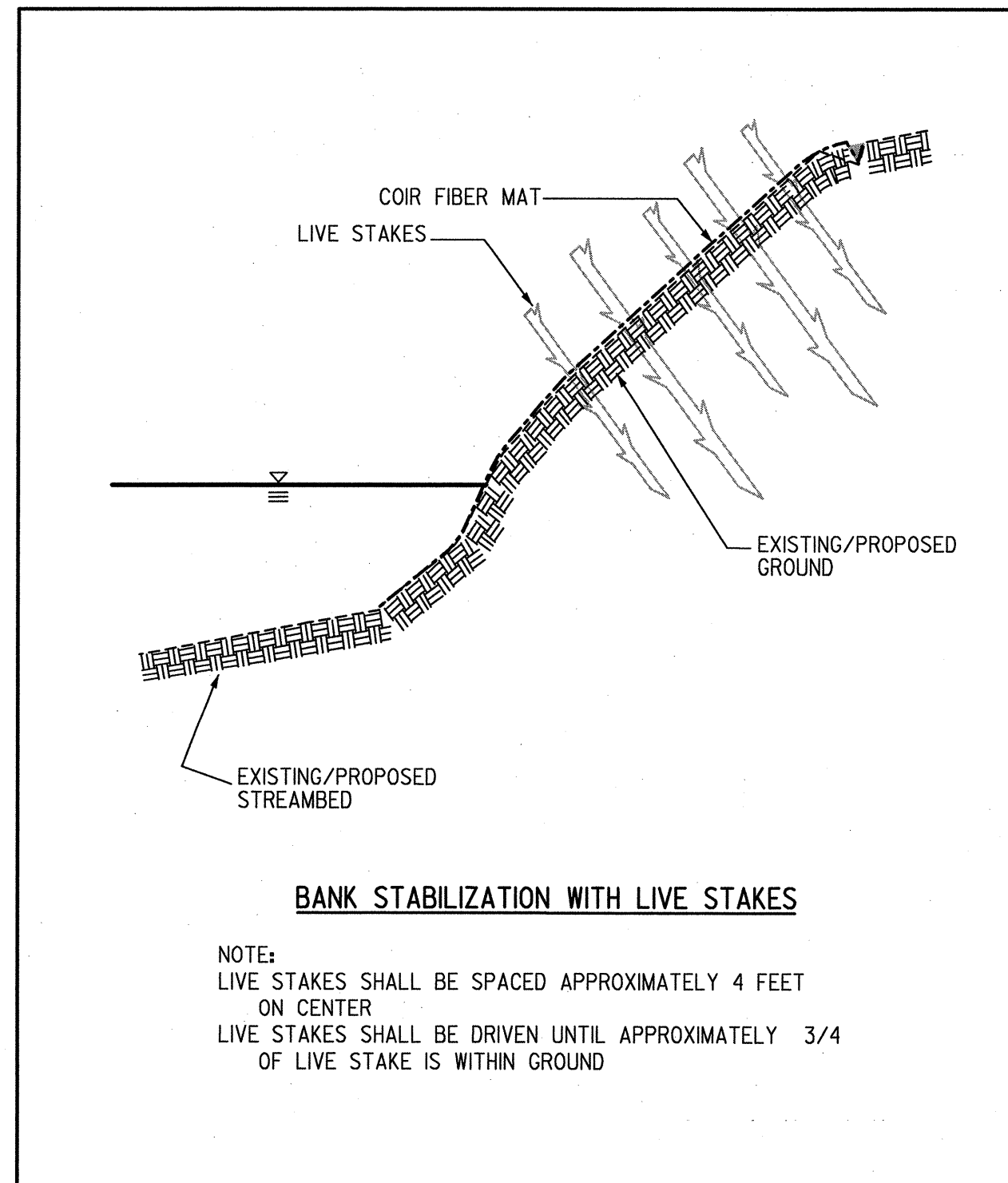
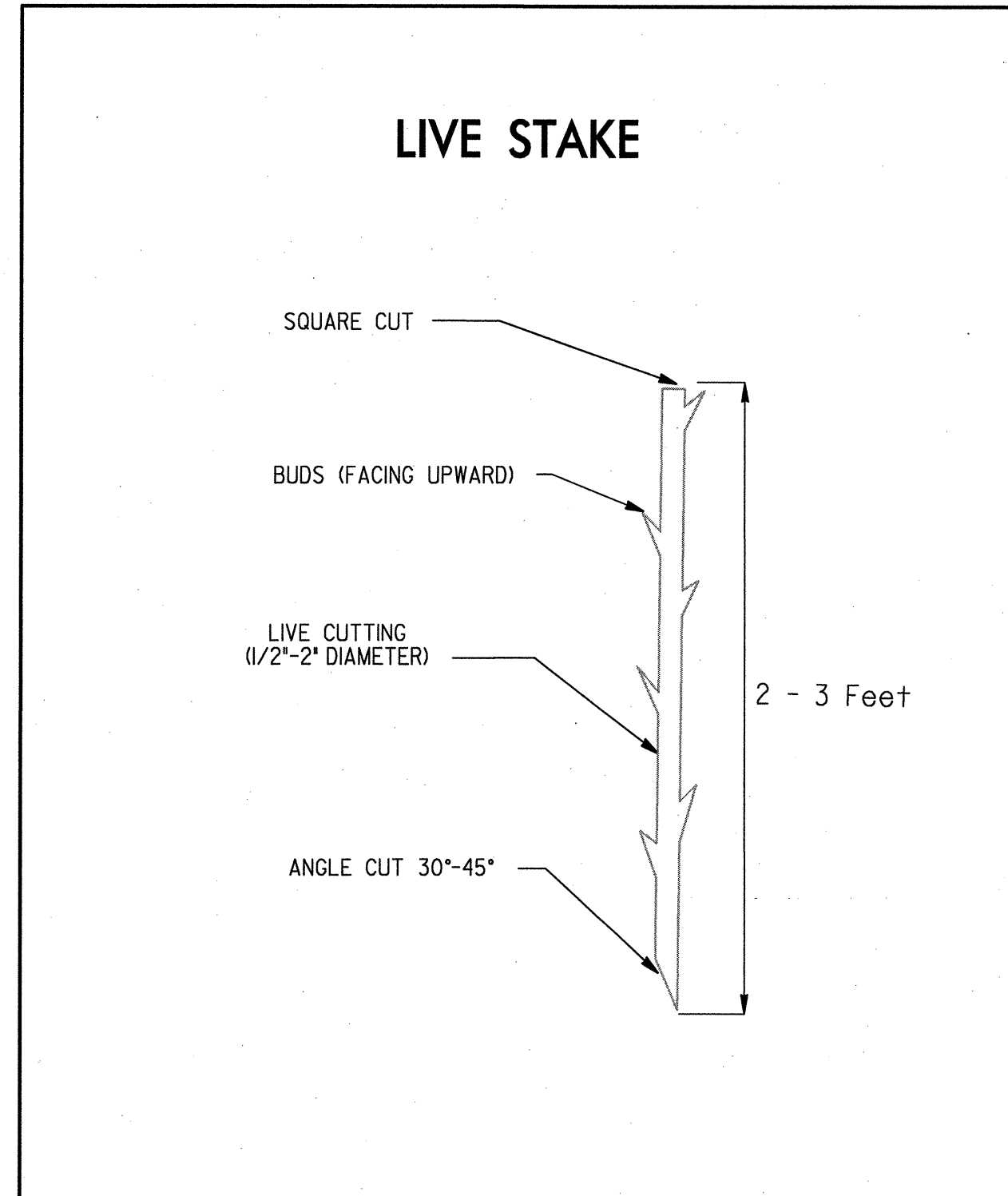
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

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

PROJECT U-4716 A/C CLEGG PASSING SIDING & HOPSON RD. GRADE SEPARATION			
TITLE EROSION CONTROL DETAILS (4 OF 4)			
LOCATION CP "NELSON" TO CP "CLEGG"	MILE POST H-63.2 TO H-67.0	DRAWING EC-2D	
DGN BY FJM	RAILROAD NS / NCRR	SCALE	
DWN BY RAC	VAL SEC V-24 /16-17		
CHK BY JAB	DATE 7/31/12		

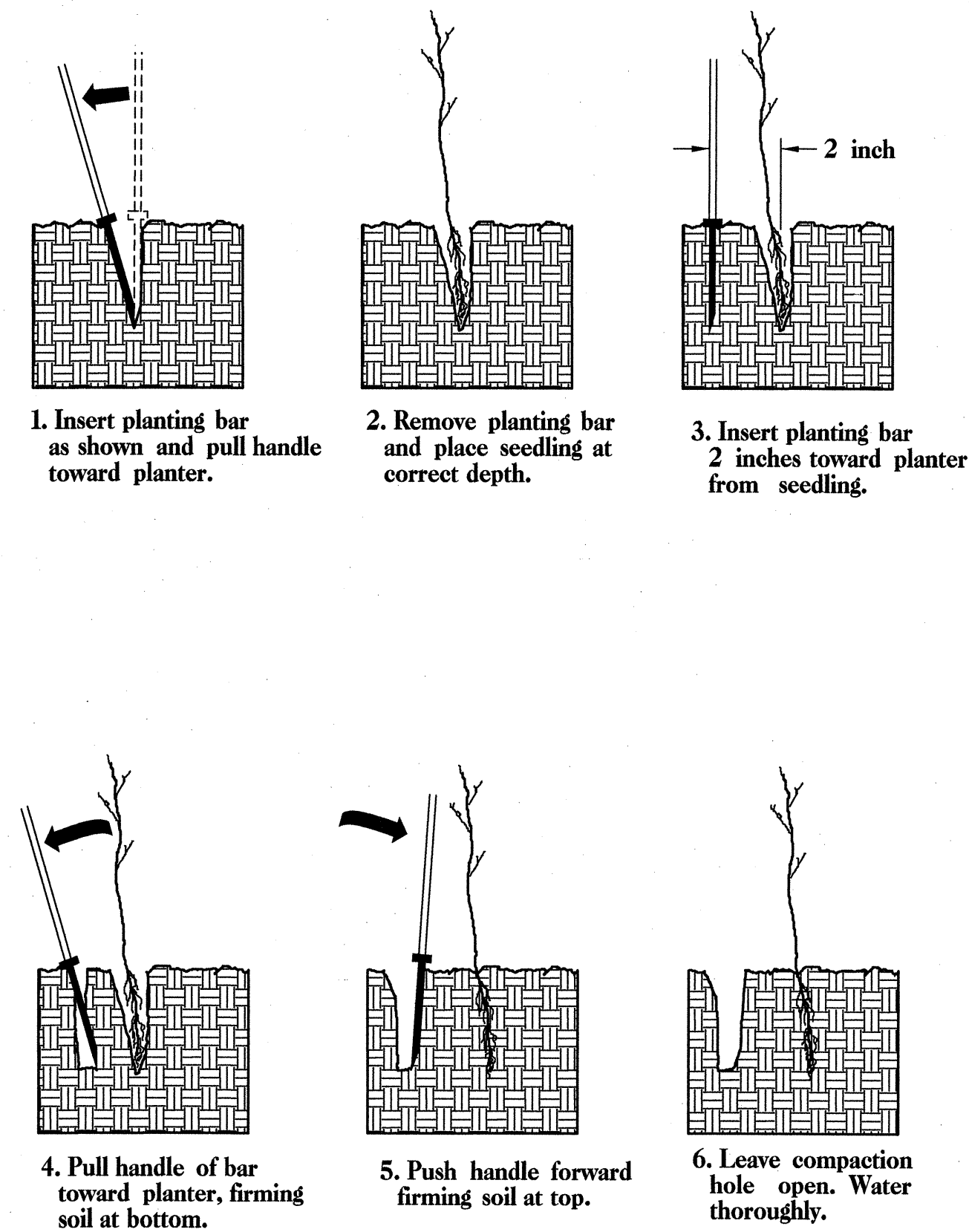
PROJECT REFERENCE NO. U-4716A/C	SHEET NO. EC-2E
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PLANTING DETAILS

LIVE STAKES PLANTING DETAIL



BAREROOT PLANTING DETAIL DIBBLE PLANTING METHOD USING THE KBC PLANTING BAR



PLANTING NOTES:

PLANTING BAG
During planting, seedlings shall be kept in a moist canvas bag or similar container to prevent the root systems from drying.

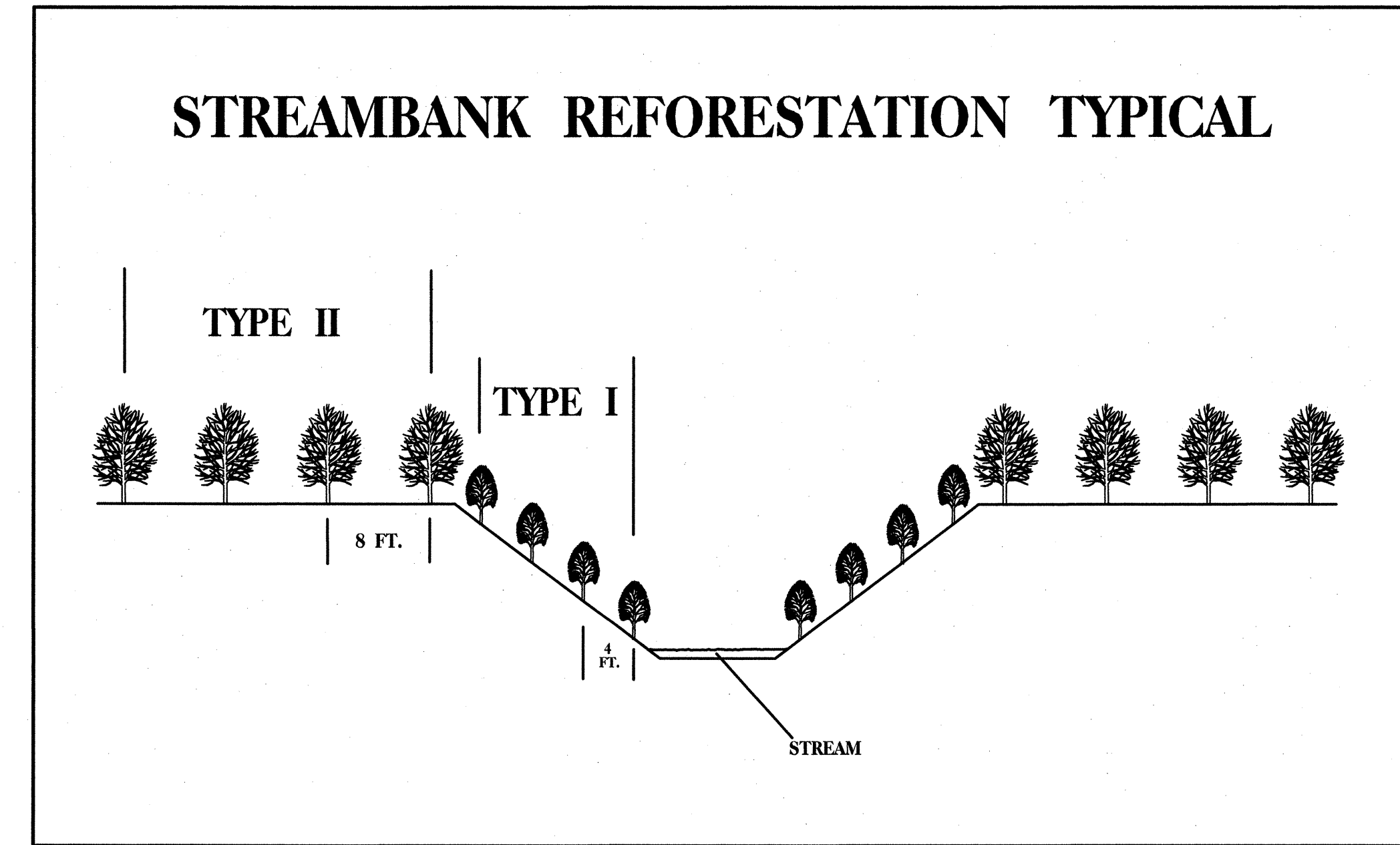


KBC PLANTING BAR
Planting bar shall have a blade with a triangular cross section, and shall be 12 inches long, 4 inches wide and 1 inch thick at center.



ROOT PRUNING
All seedlings shall be root pruned, if necessary, so that no roots extend more than 10 inches below the root collar.

- TYPE 1 STREAMBANK REFORESTATION SHALL BE PLANTED 3 FT. TO 5 FT. ON CENTER, RANDOM SPACING, AVERAGING 4 FT. ON CENTER, APPROXIMATELY 2724 PLANTS PER ACRE.
- TYPE 2 STREAMBANK REFORESTATION SHALL BE PLANTED 6 FT. TO 10 FT. ON CENTER, RANDOM SPACING, AVERAGING 8 FT. ON CENTER, APPROXIMATELY 680 PLANTS PER ACRE.
- NOTE: TYPE 1 AND TYPE 2 STREAMBANK REFORESTATION SHALL BE PAID FOR AS "STREAMBANK REFORESTATION"



STREAMBANK REFORESTATION

MIXTURE, TYPE, SIZE, AND FURNISH SHALL CONFORM TO THE FOLLOWING:

TYPE 1

50% SALIX NIGRA	BLACK WILLOW	2 ft - 3 ft LIVE STAKES
50% CORNUS AMOMUM	SILKY DOGWOOD	2 ft - 3 ft LIVE STAKES

TYPE 2

25% LIRIODENDRON TULIPIFERA	TULIP POPLAR	12 in - 18 in BR
25% PLATANUS OCCIDENTALIS	SYCAMORE	12 in - 18 in BR
25% PRUNUS SEROTINA	BLACK CHERRY	12 in - 18 in BR
25% BETULA NIGRA	RIVER BIRCH	12 in - 18 in BR

- SEE PLAN SHEETS FOR AREAS TO BE PLANTED

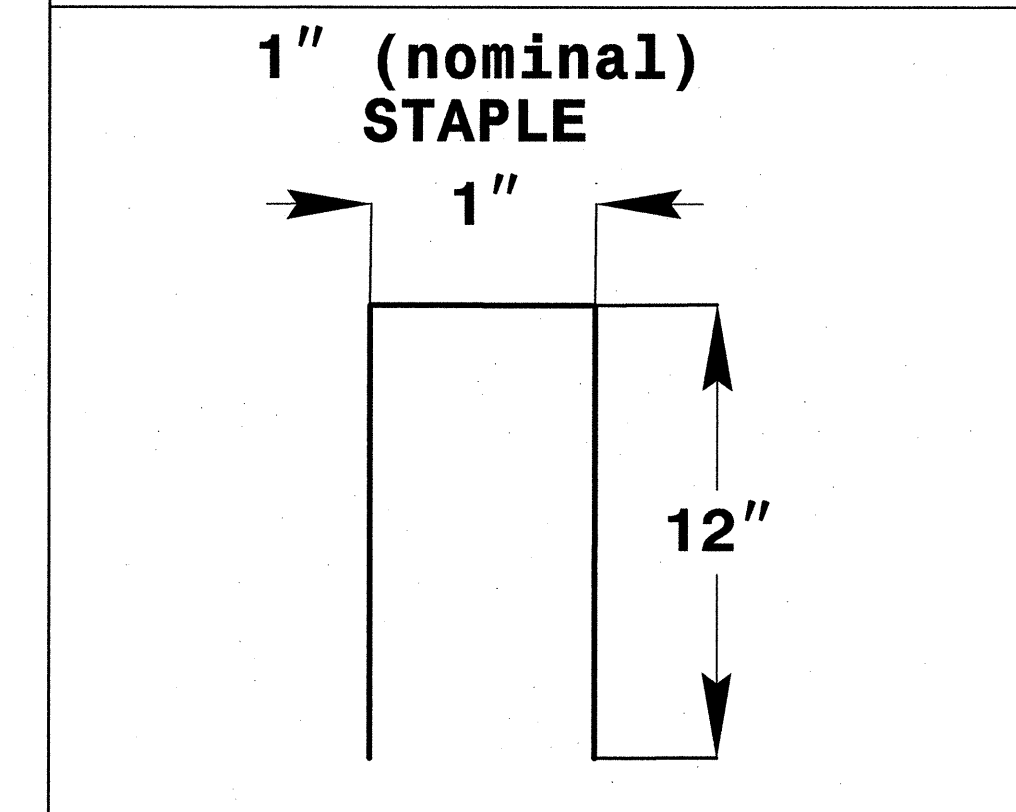
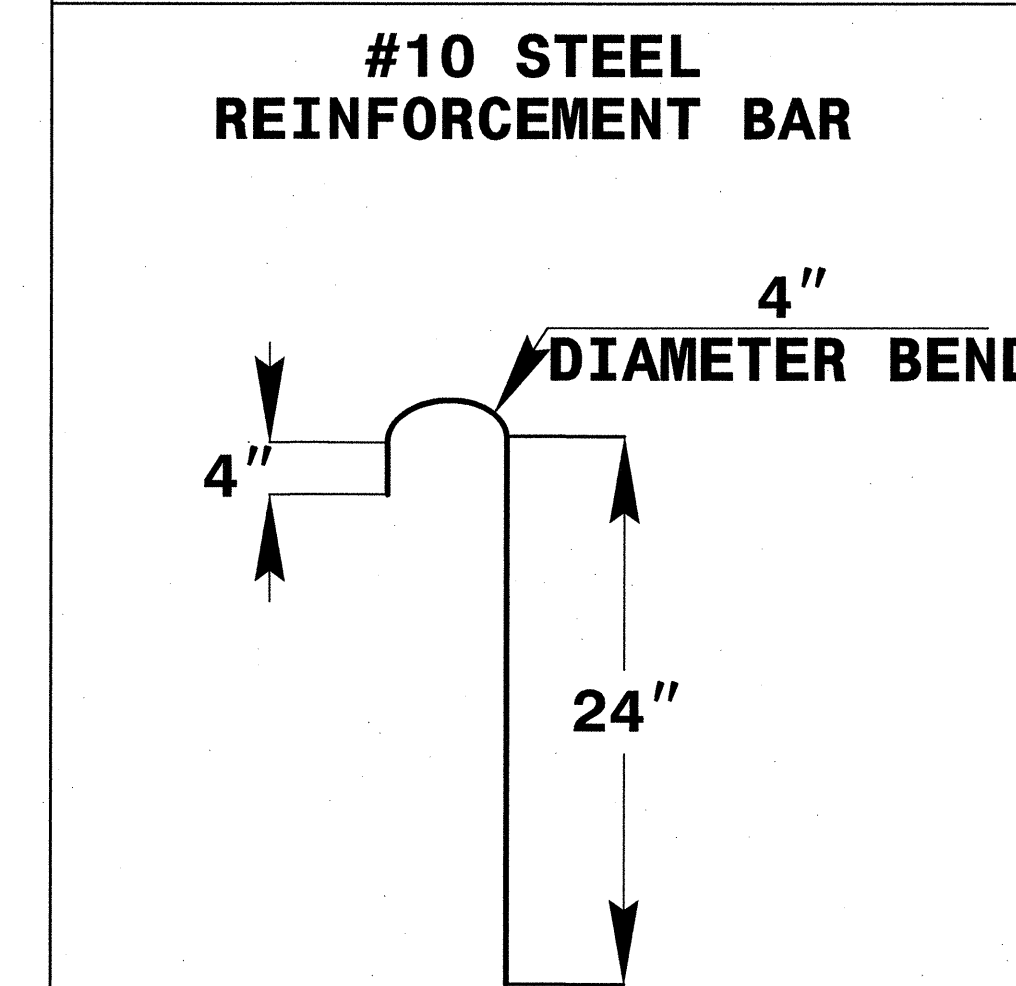
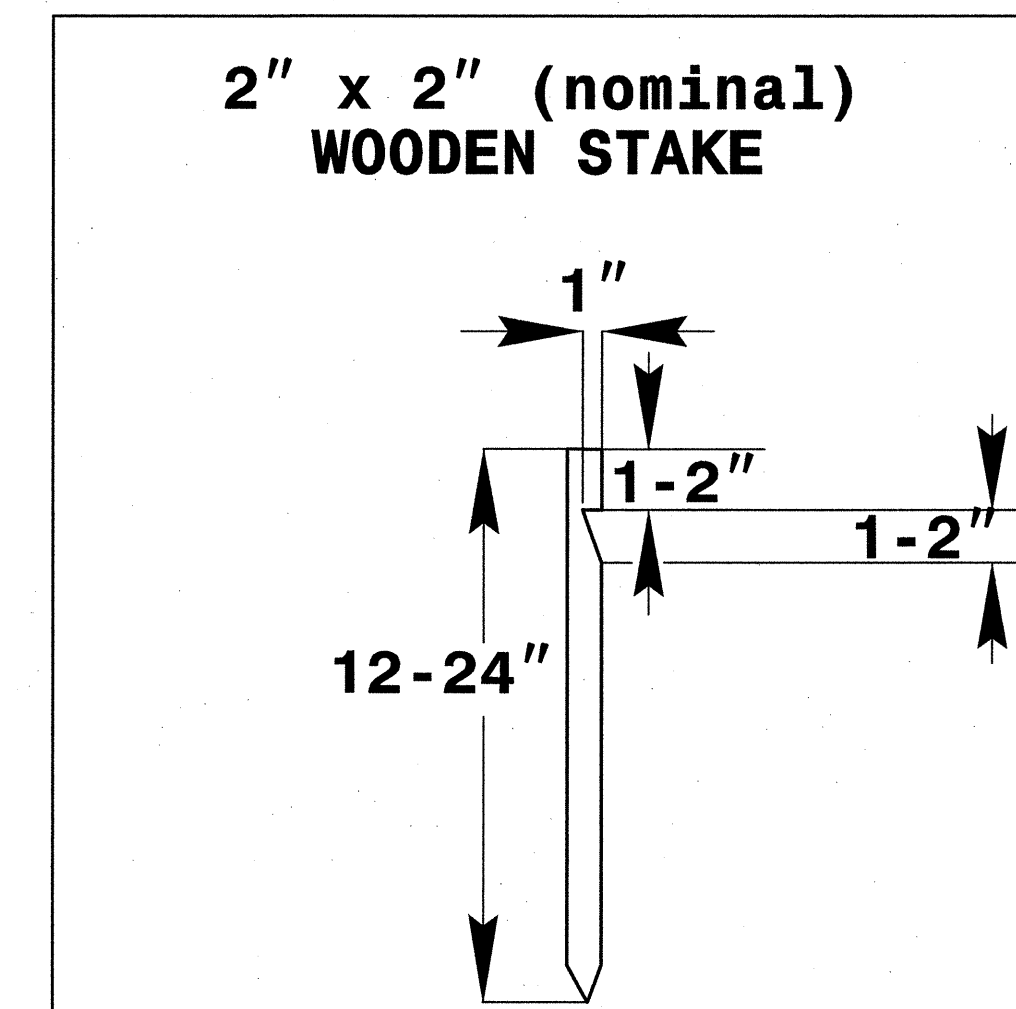
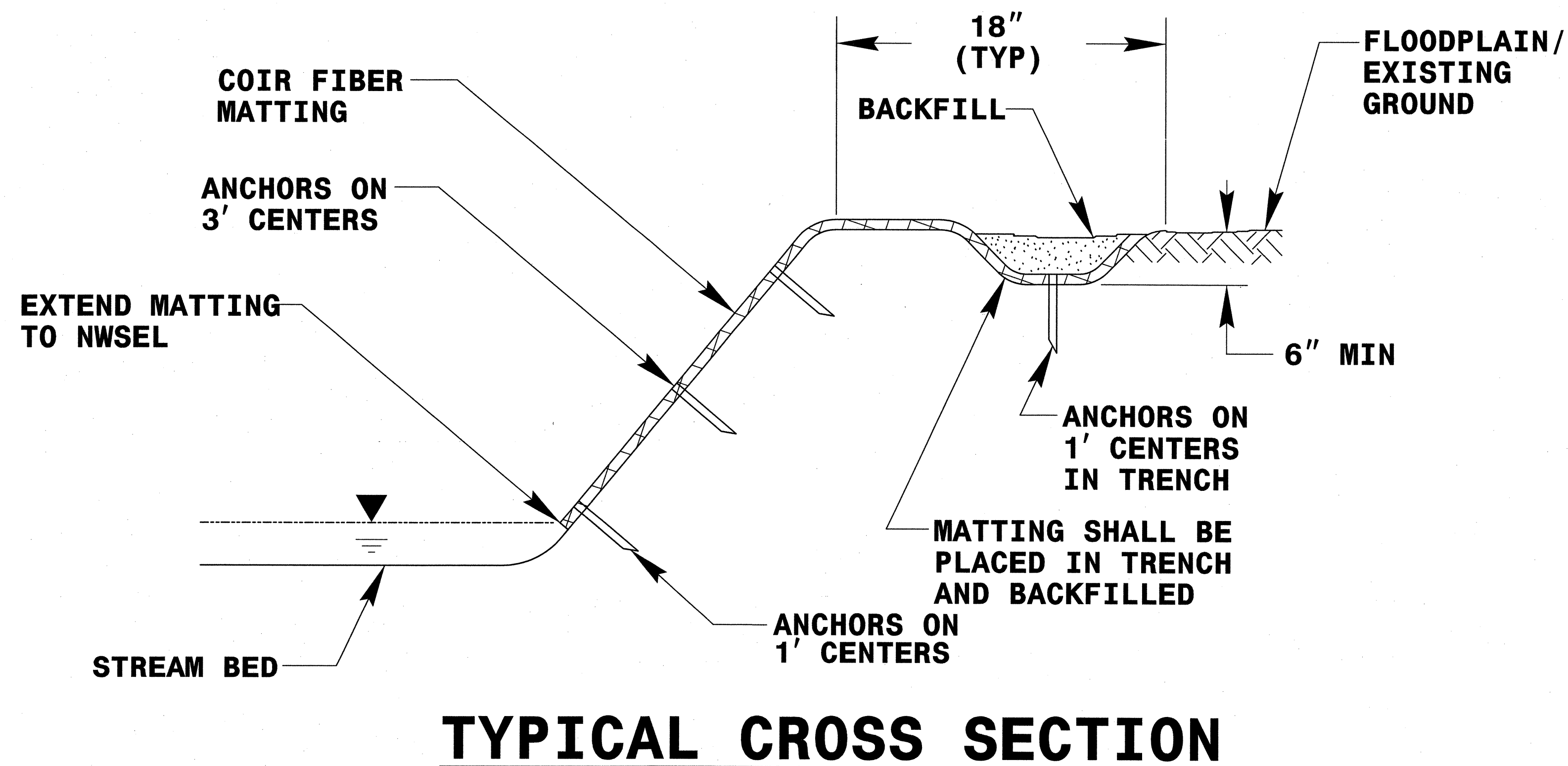
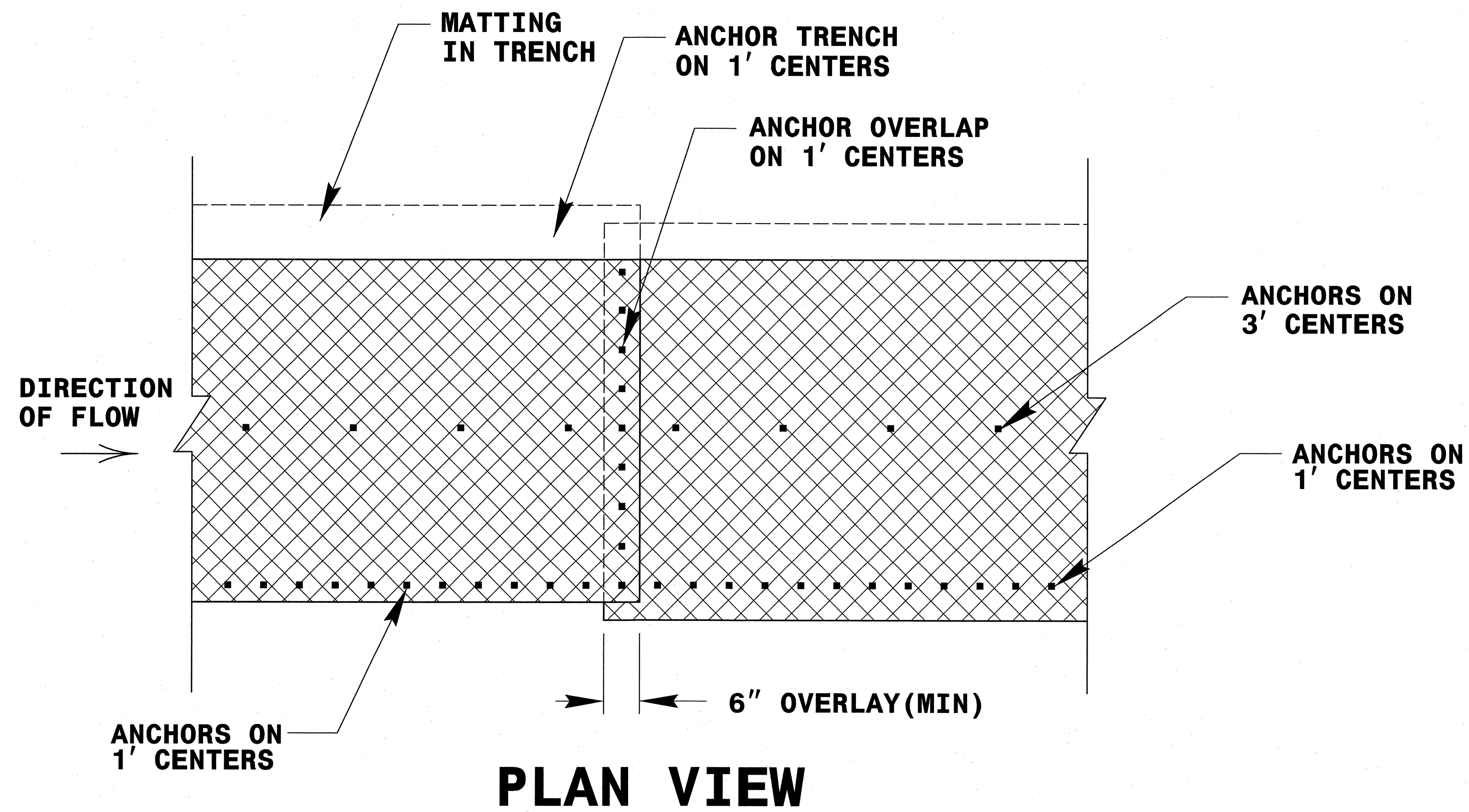
STREAMBANK REFORESTATION

DETAIL SHEET 1 OF 2

N.C.D.O.T. - ROADSIDE ENVIRONMENTAL UNIT

0371DEL_P17-18

PROJECT REFERENCE NO. U-4716A/C	SHEET NO. EC-2F
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



ANCHOR OPTIONS

COIR FIBER MATTING DETAIL

NOT TO SCALE

STREAMBANK REFORESTATION

DETAIL SHEET 2 OF 2

N.C.D.O.T. - ROADSIDE ENVIRONMENTAL UNIT

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA


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.

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NO.	BY	DATE	REVISION

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

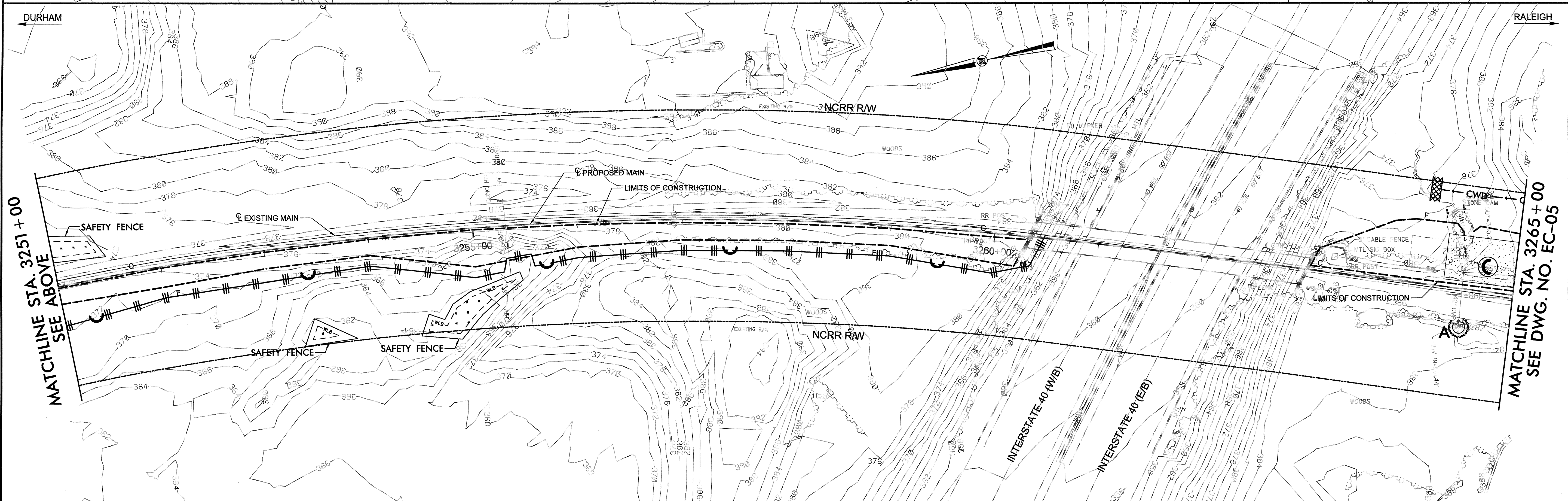
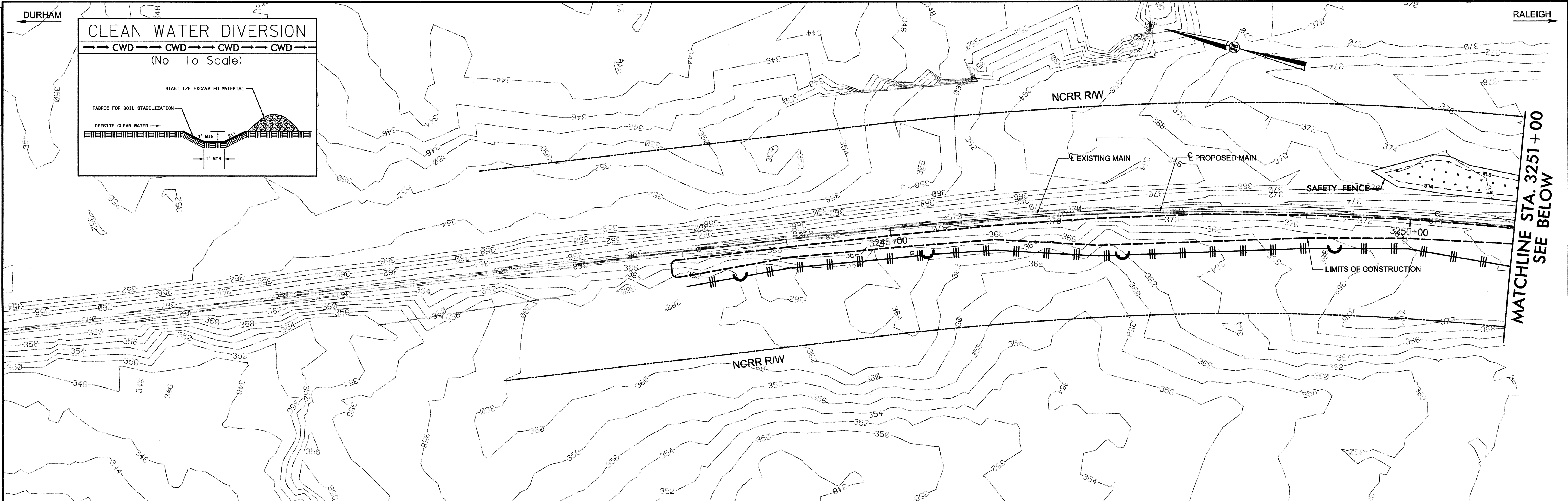


RAIL DIVISION

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

PROJECT U-4716 A/C CLEGG PASSING SIDING & HOPSON RD. GRADE SEPARATION			
TITLE STABILIZATION GUIDELINES SHEET			
LOCATION CP "NELSON" TO CP "CLEGG"	MILE POST H-63.2 TO H-67.0	DRAWING EC-3A	
DGN BY FJM	RAILROAD NS / NCRR	SCALE	
DWN BY RAC	VAL SEC V-24 /16-17		
CHK BY JAB	DATE 7/31/12		

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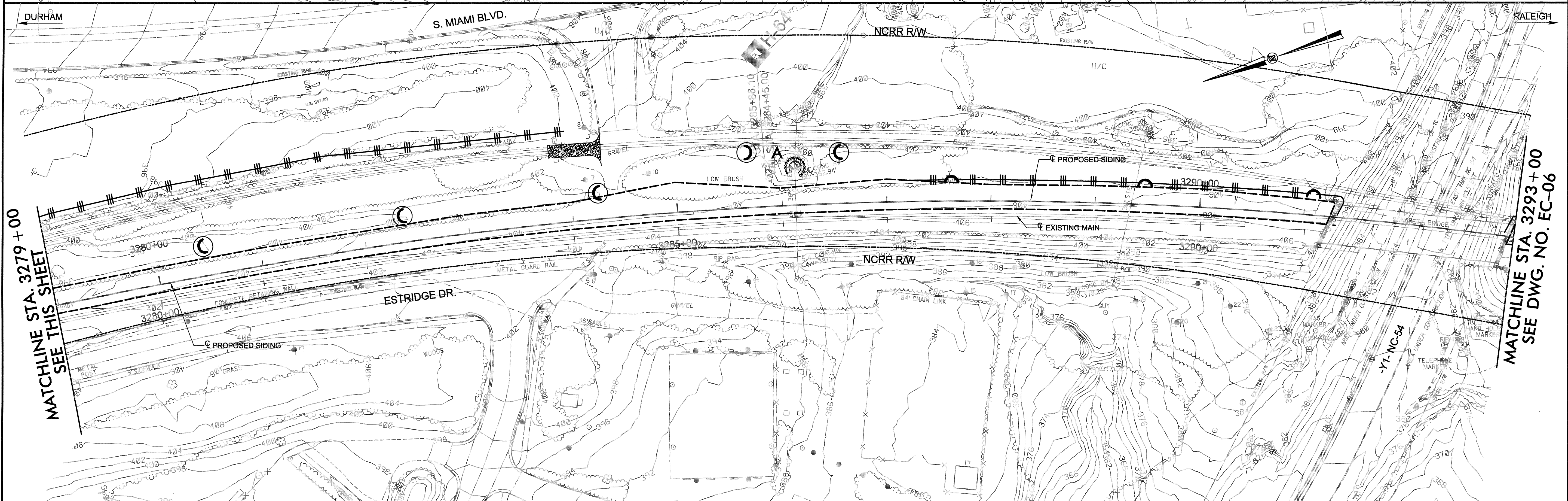
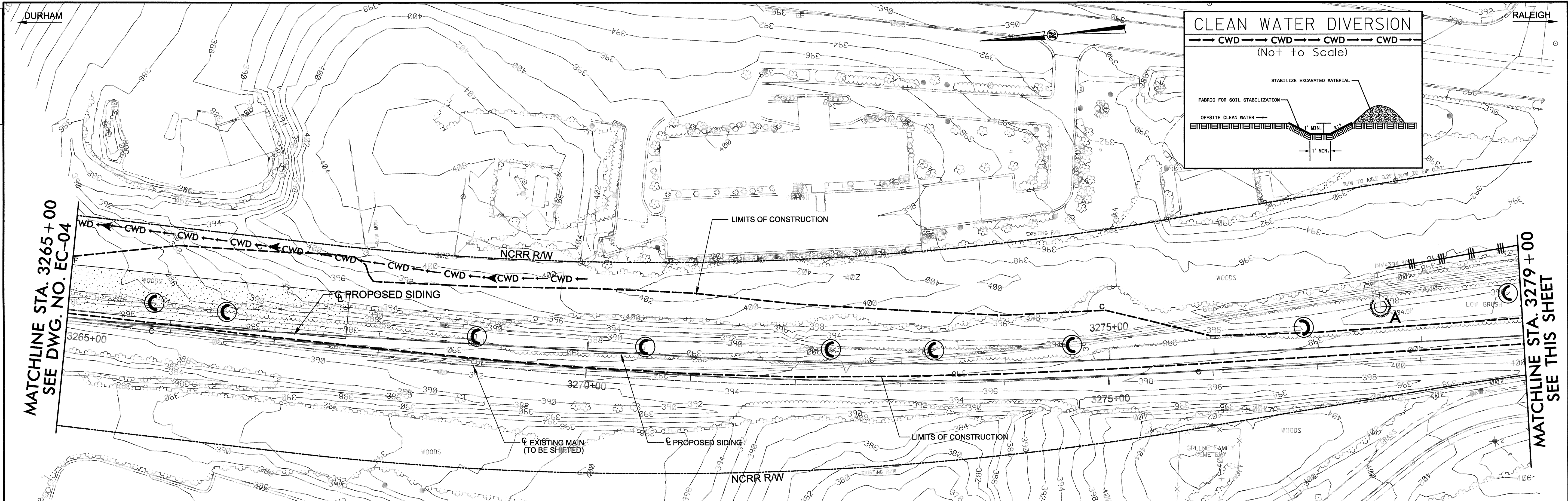
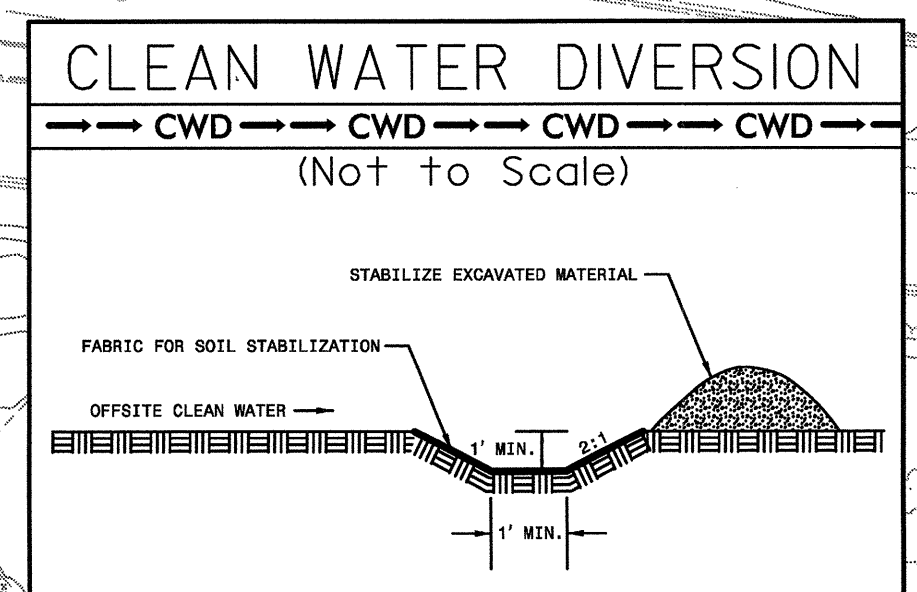
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

RAIL DIVISION

PREPARED BY: **HNTB**

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

PROJECT U-4716 A/C CLEGG PASSING SIDING & HOPSON RD. GRADE SEPARATION			
TITLE CLEARING & GRUBBING PLAN MAIN STA 3243+00 TO 3265+00			
LOCATION CP "NELSON" TO CP "CLEGG"	MILE POST H-63.2 TO H-67.0	DRAWING EC-04 /CONST. 4&5	
DGN BY FJM	RAILROAD NS / NCRR	SHEET OF	
OWN BY RAC	VAL SEC V-24 /16-17		
CHK BY JAB	DATE 7/31/12	SCALE	



NO.	BY	DATE	REVISION

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
RAIL DIVISION
 PREPARED BY:
HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554

PROJECT	U-4716 A/C CLEGG PASSING SIDING & HOPSON RD. GRADE SEPARATION		
TITLE	CLEARING & GRUBBING PLAN MAIN STA 3265+00 TO 3293+00		
LOCATION	CP "NELSON" TO CP "CLEGG"	MILE POST	H-63.2 TO H-67.0
DGN BY	FJM	RAILROAD	NS / NCCR
DWN BY	RAC	VAL SEC	V-24 / 16-17
CHK BY	JAB	DATE	7/31/12
SCALE		SHEET	OF

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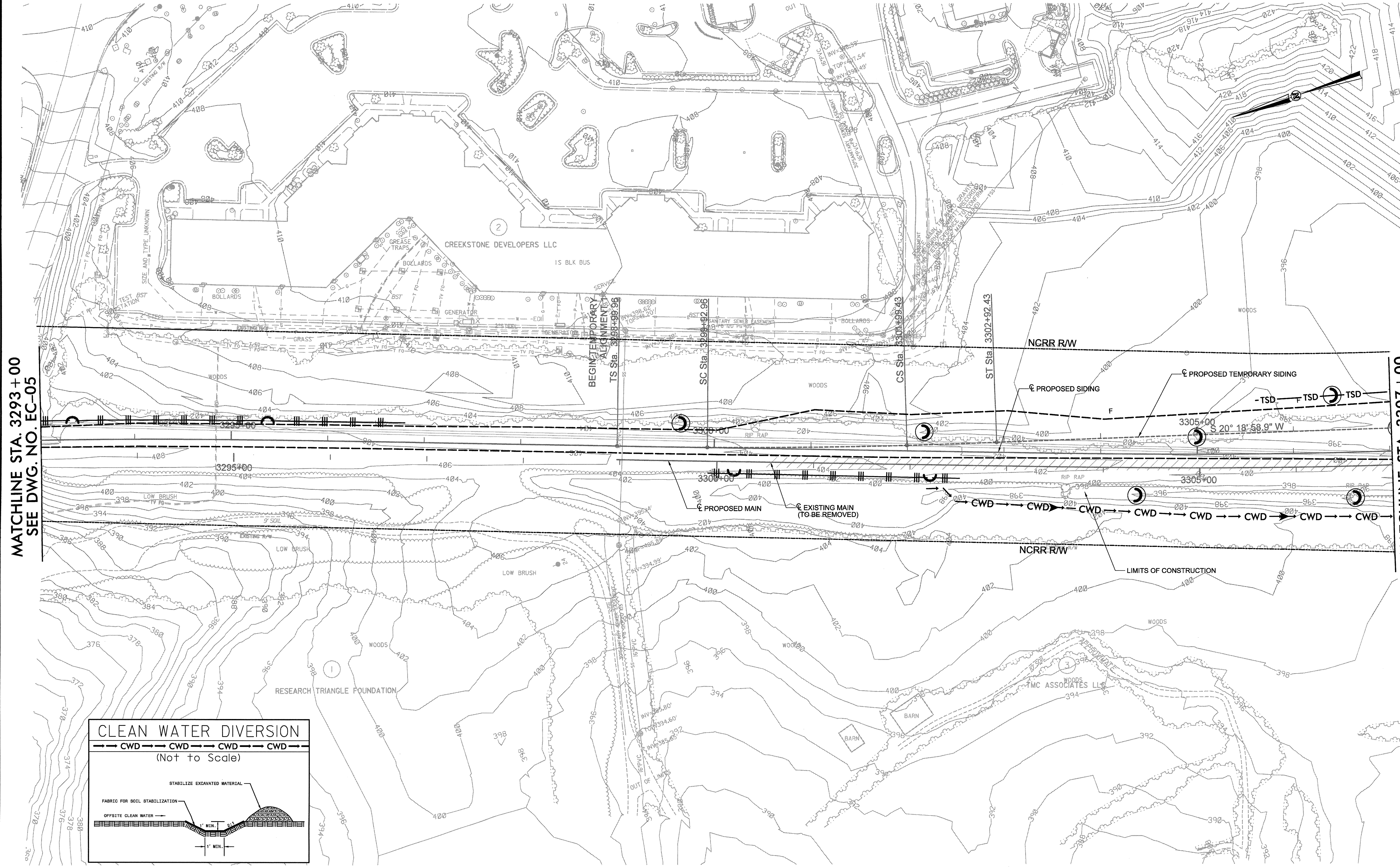
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 \$\$\$USERNAME\$\$\$

MATCHLINE STA. 3265+00
 SEE DWG. NO. EC-04

MATCHLINE STA. 3279+00
 SEE THIS SHEET

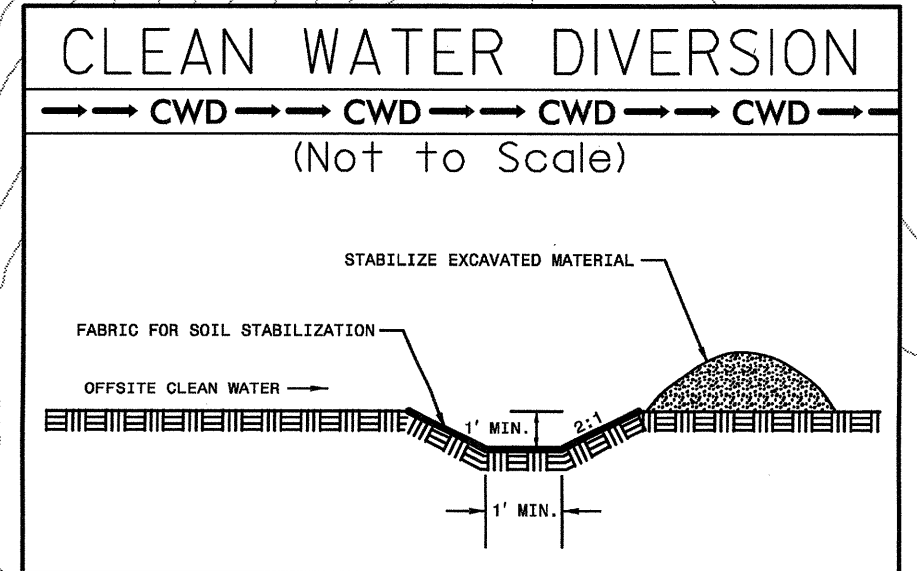
MATCHLINE STA. 3279+00
 SEE THIS SHEET

MATCHLINE STA. 3293+00
 SEE DWG. NO. EC-06



MATCHLINE STA. 3293+00
SEE DWG. NO. EC-05

MATCHLINE STA. 3307+00
SEE DWG. NO. EC-07



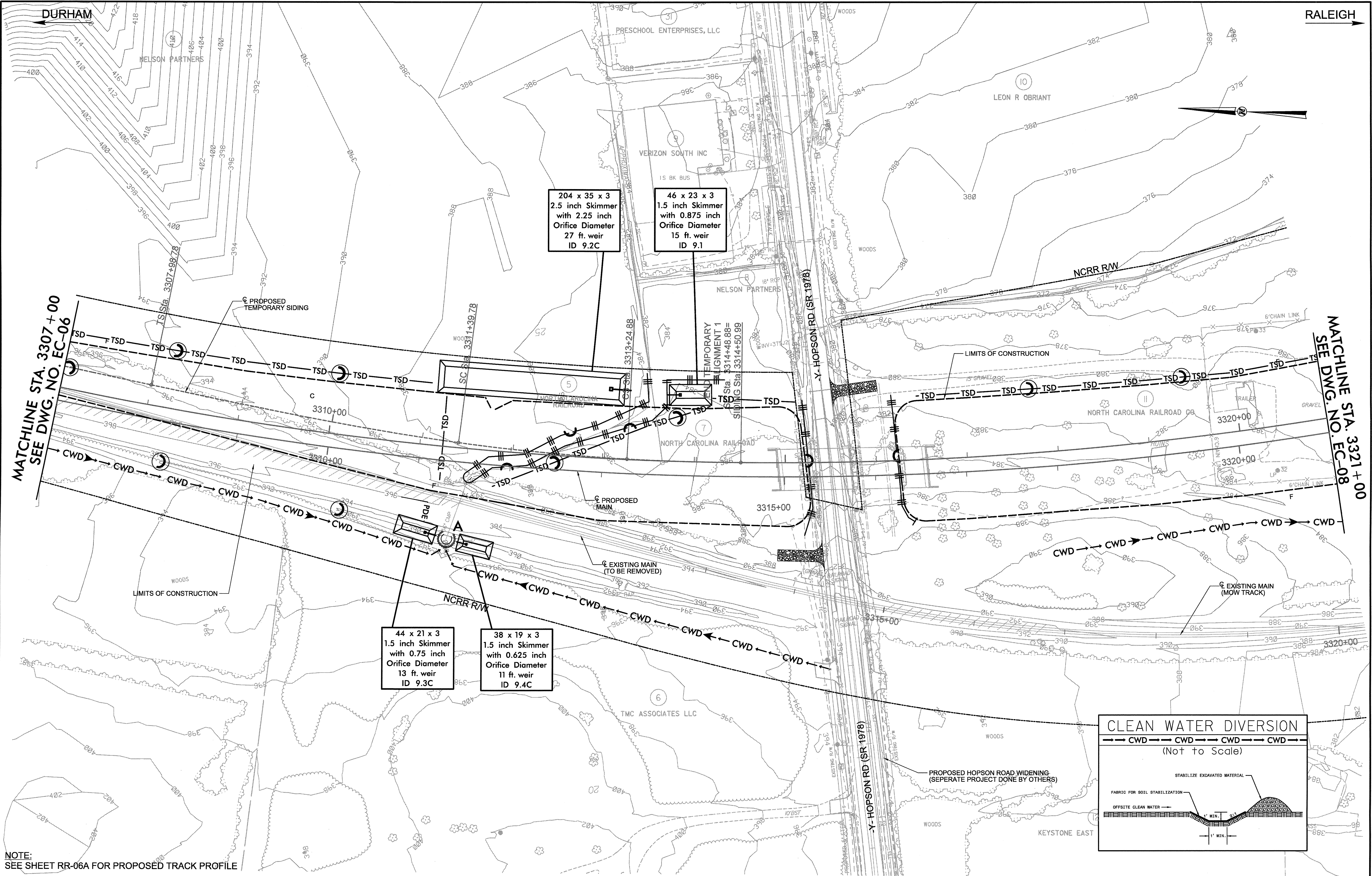
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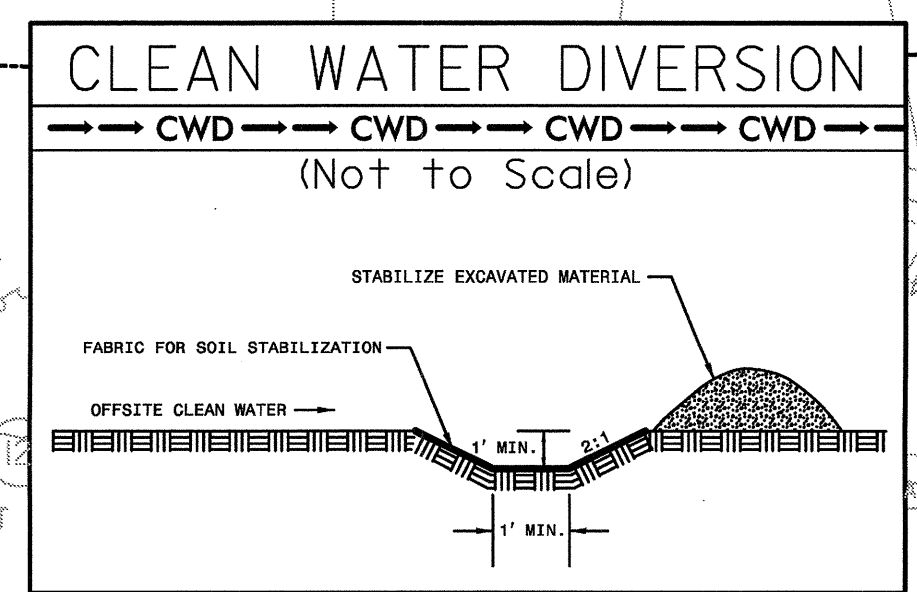
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
RAIL DIVISION

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

PROJECT	U-4716 AC CLEGG PASSING SIDING & HOPSON RD. GRADE SEPARATION		
TITLE	CLEARING & GRUBBING PLAN MAIN STA 3293+00 TO 3307+00		
LOCATION	CP "NELSON" TO CP "CLEGG"	MILE POST	H-63.2 TO H-67.0
DGN BY	FJM	RAILROAD	NS / NCRR
DWN BY	RAC	VAL SEC	V-24 /16-17
CHK BY	JAB	DATE	7/31/12
		SCALE	
		SHEET	OF





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

PROJECT U-4716 AC CLEGG PASSING SIDING & HOPSON RD. GRADE SEPARATION		TITLE CLEARING & GRUBBING PLAN MAIN STA 3307+00 TO 3321+00	
LOCATION CP "NELSON" TO CP "CLEGG"	RAILROAD NS / NCRR	MILE POST H-63.2 TO H-67.0	DRAWING EC-07 / CONST 9
DGN BY FJM	VAL SEC V-24 /16-17	DATE 7/31/12	SCALE
DWN BY RAC	DATE 7/31/12	SCALE	SHEET OF
CHK BY JAB	DATE 7/31/12	SCALE	SHEET OF

DURHAM

RALEIGH

0371DEL_P17-18

66 x 32 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
24 ft. weir
ID 10.1

38 x 16 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
8 ft. weir
ID 10.2

44 x 22 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
14 ft. weir
ID 10.3

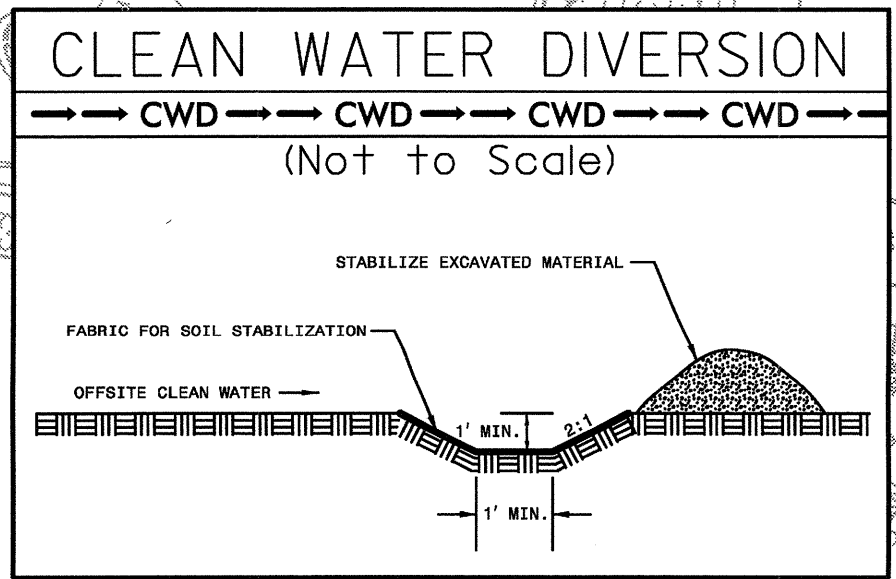
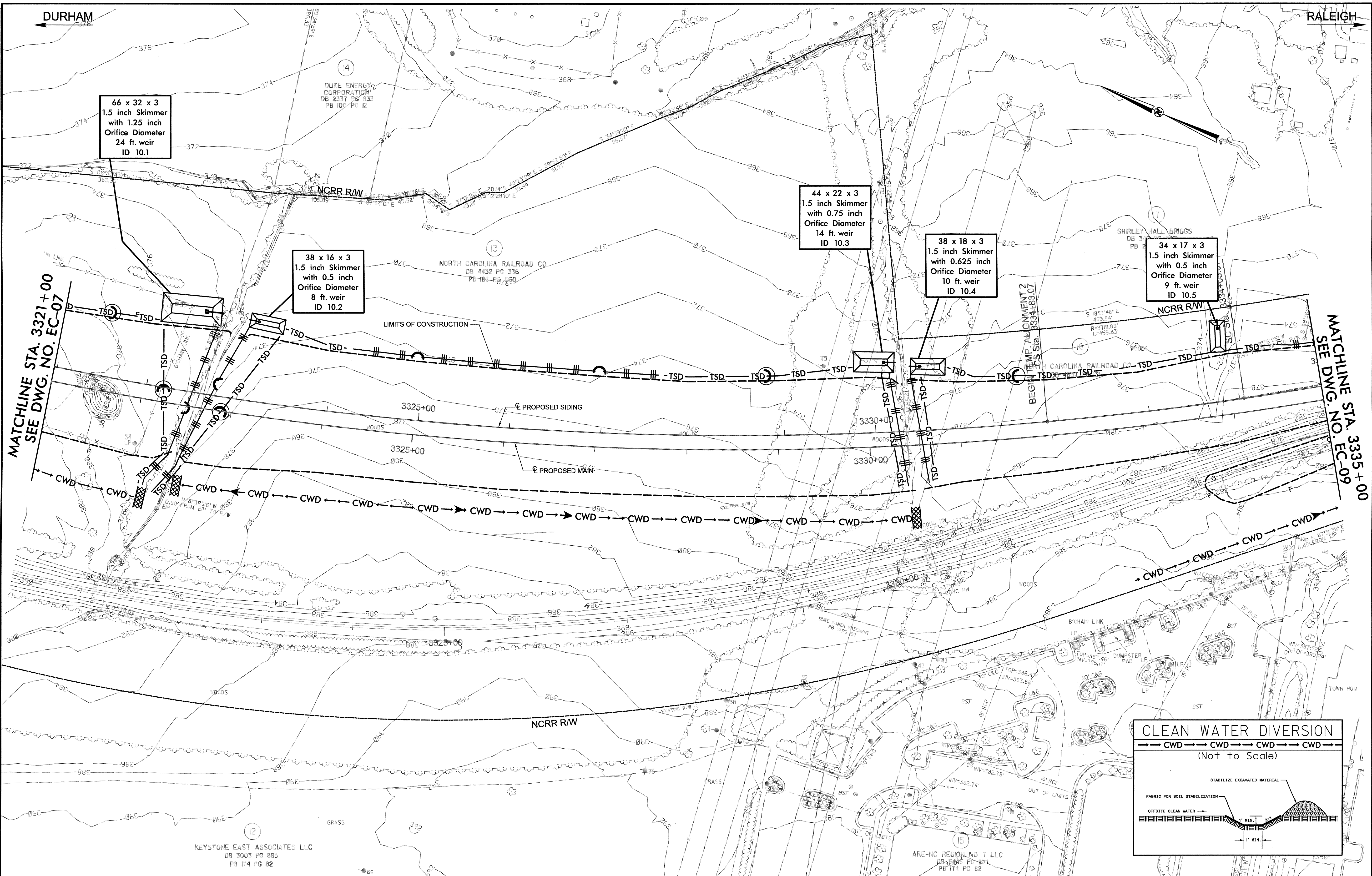
38 x 18 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
10 ft. weir
ID 10.4

34 x 17 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
9 ft. weir
ID 10.5

MATCHLINE STA. 3321+00
SEE DWG. NO. EC-07

MATCHLINE STA. 3335+00
SEE DWG. NO. EC-09

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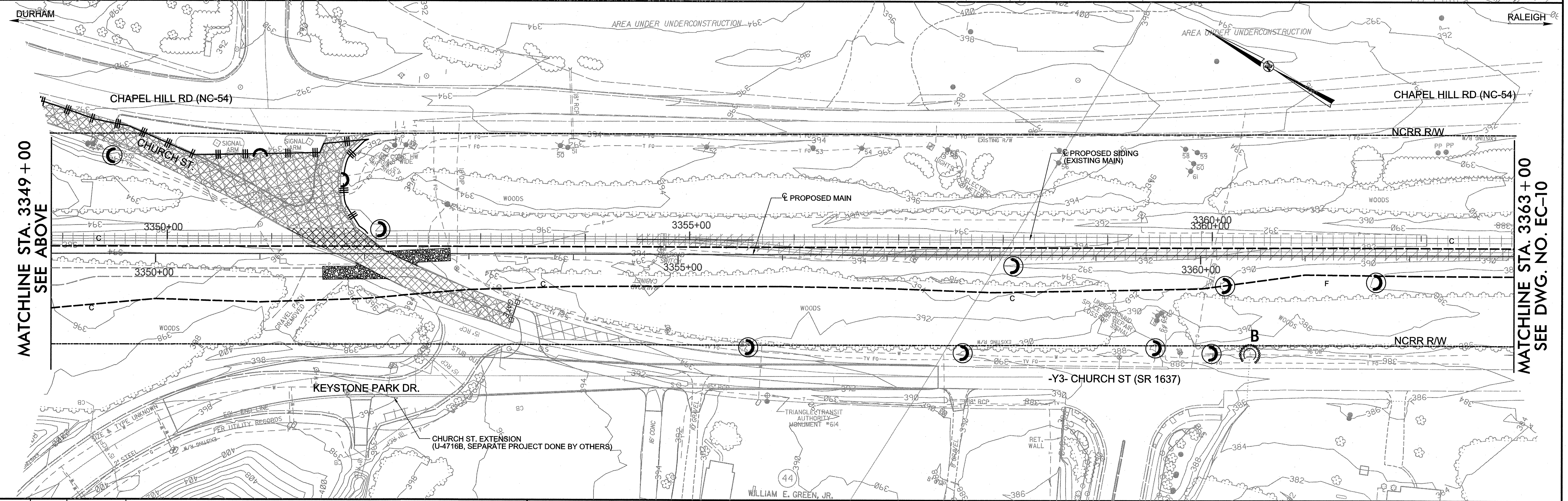
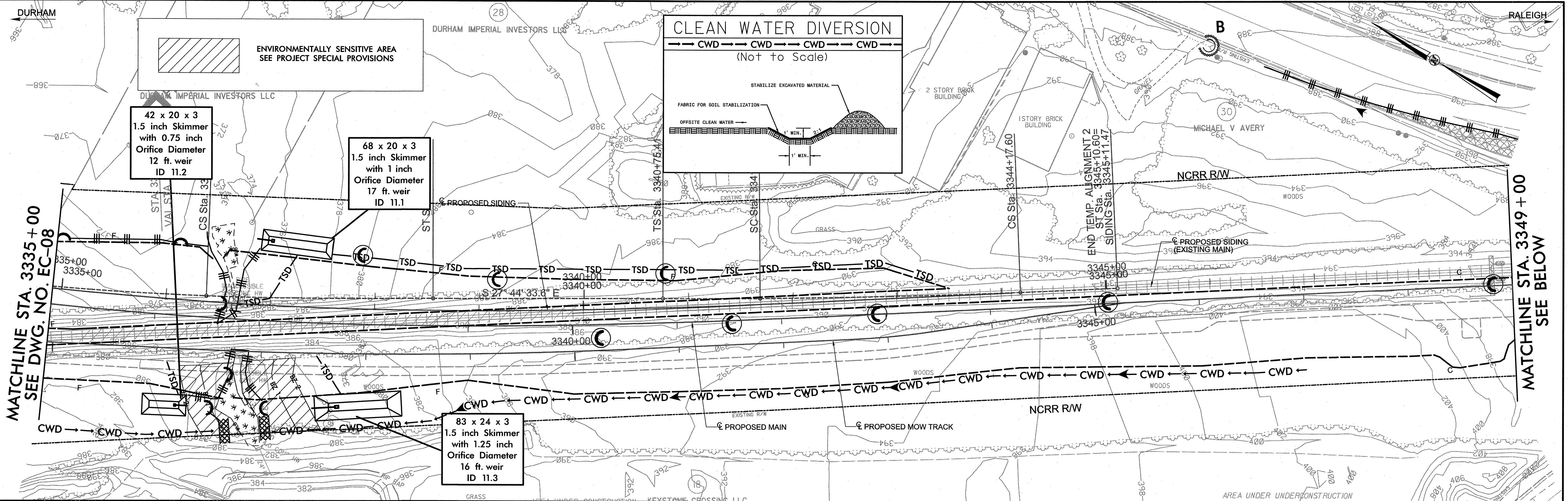


NO.	BY	DATE	REVISION

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

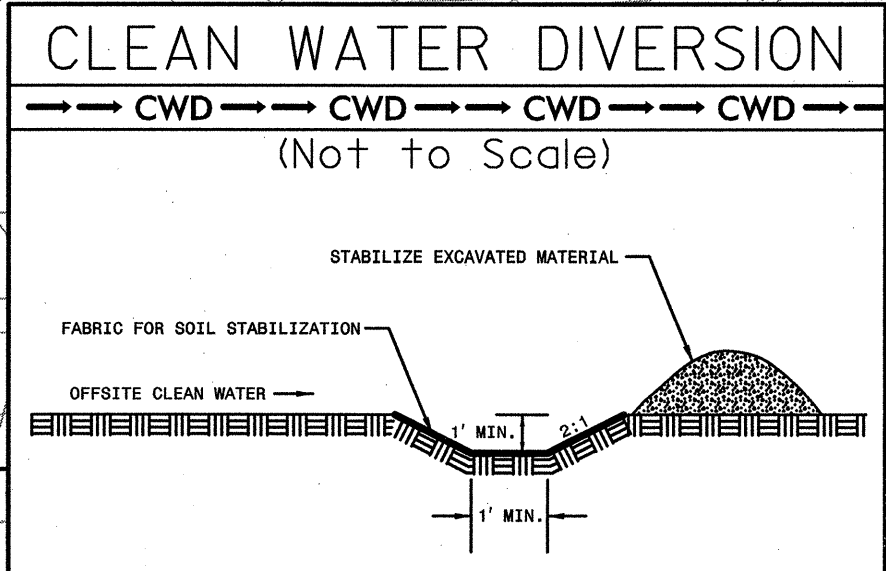
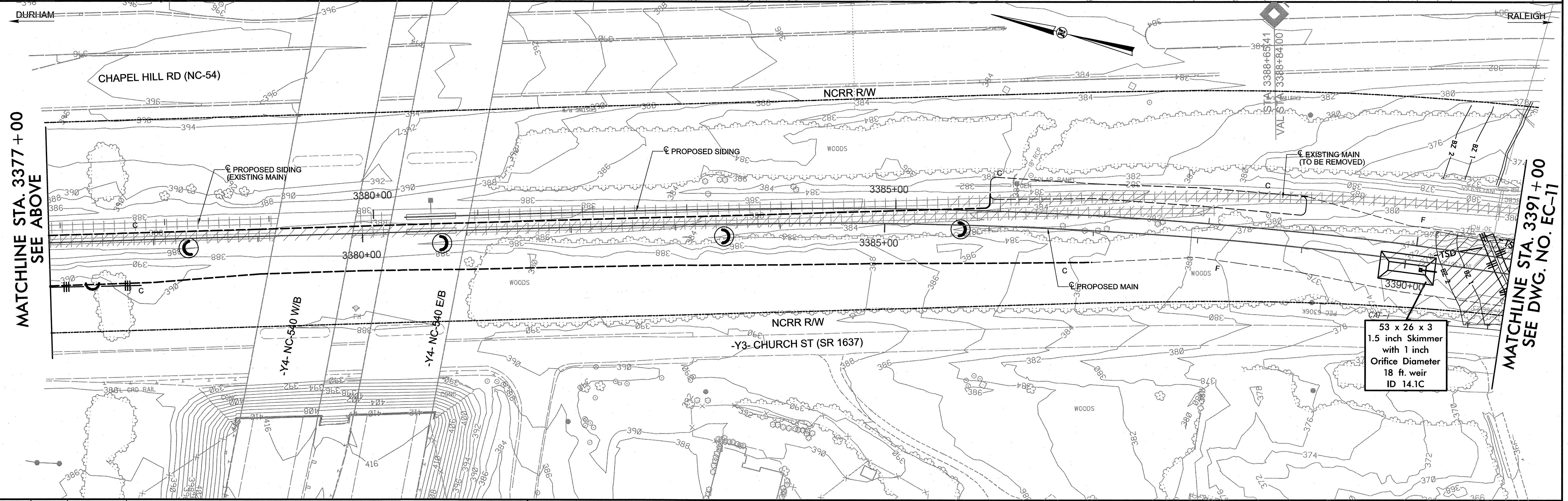
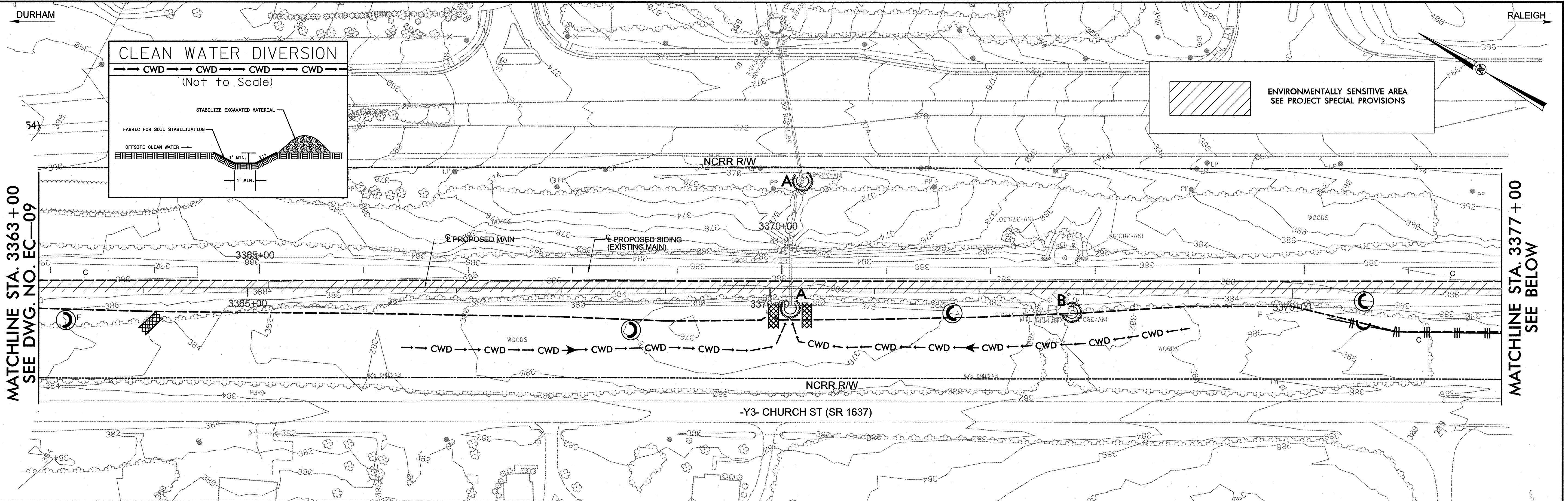
RAIL DIVISION
 PREPARED BY: **HNTB**
 HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554

PROJECT U-4716 AC CLEGG PASSING SIDING & HOPSON RD. GRADE SEPARATION			
TITLE CLEARING & GRUBBING PLAN MAIN STA 3321+00 TO 3335+00			
LOCATION CP "NELSON" TO CP "CLEGG"	MILE POST H-63.2 TO H-67.0		
DGN BY FJM	RAILROAD NS / NCCR	DRAWING EC-08 / CONST 10	
DWN BY RAC	VAL SEC V-24 /16-17		
CHK BY JAB	DATE 7/31/12	SCALE	SHEET OF



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NO.	BY	DATE	REVISION																						

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ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

53 x 26 x 3
1.5 inch Skimmer
with 1 inch
Orifice Diameter
18 ft. weir
ID 14.1C

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NO.	BY	DATE	REVISION

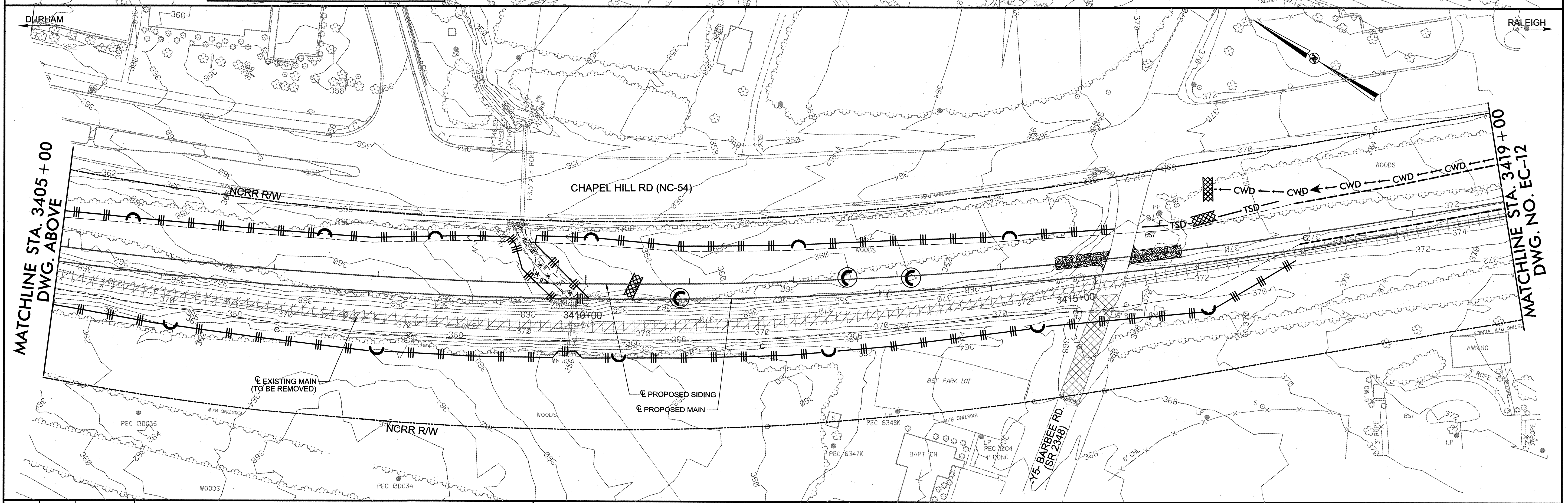
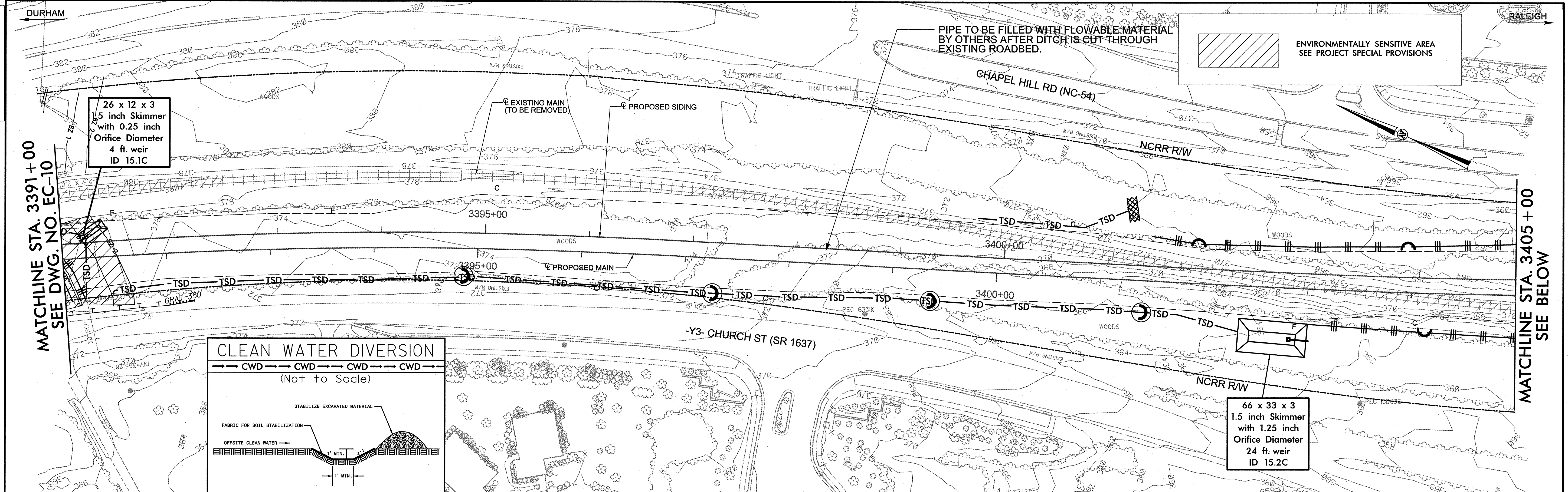
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

RAIL DIVISION

PREPARED BY:

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

PROJECT	U-4716 AC CLEGG PASSING SIDING & HOPSON RD. GRADE SEPARATION		
TITLE	CLEARING & GRUBBING MAIN STA 3363+00 TO 3391+00		
LOCATION	CP "NELSON" TO CP "CLEGG"	MILE POST	H-63.2 TO H-67.0
DGN BY	FJM	RAILROAD	NS / NCRR
DWN BY	RAC	VAL SEC	V-24 / 16-17
CHK BY	JAB	DATE	9/25/12
		SCALE	
		SHEET	OF



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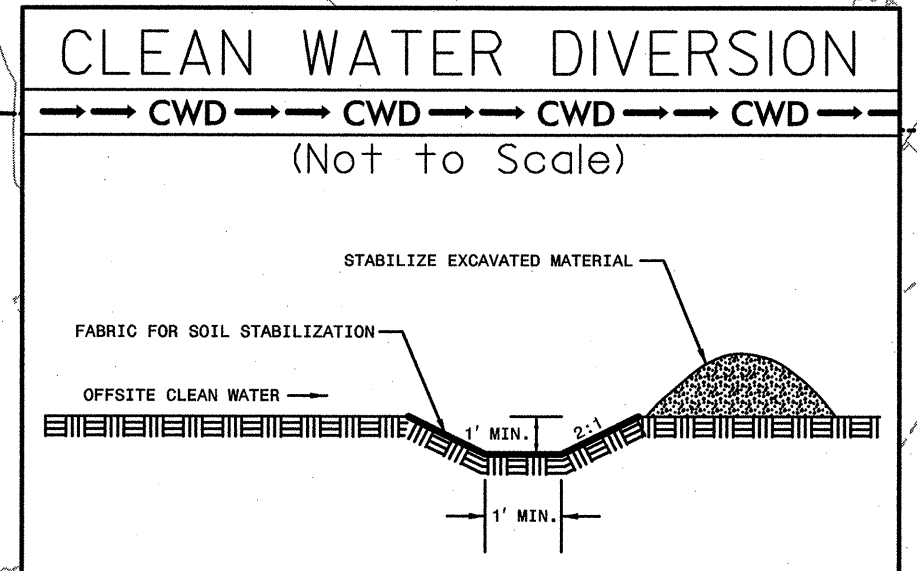
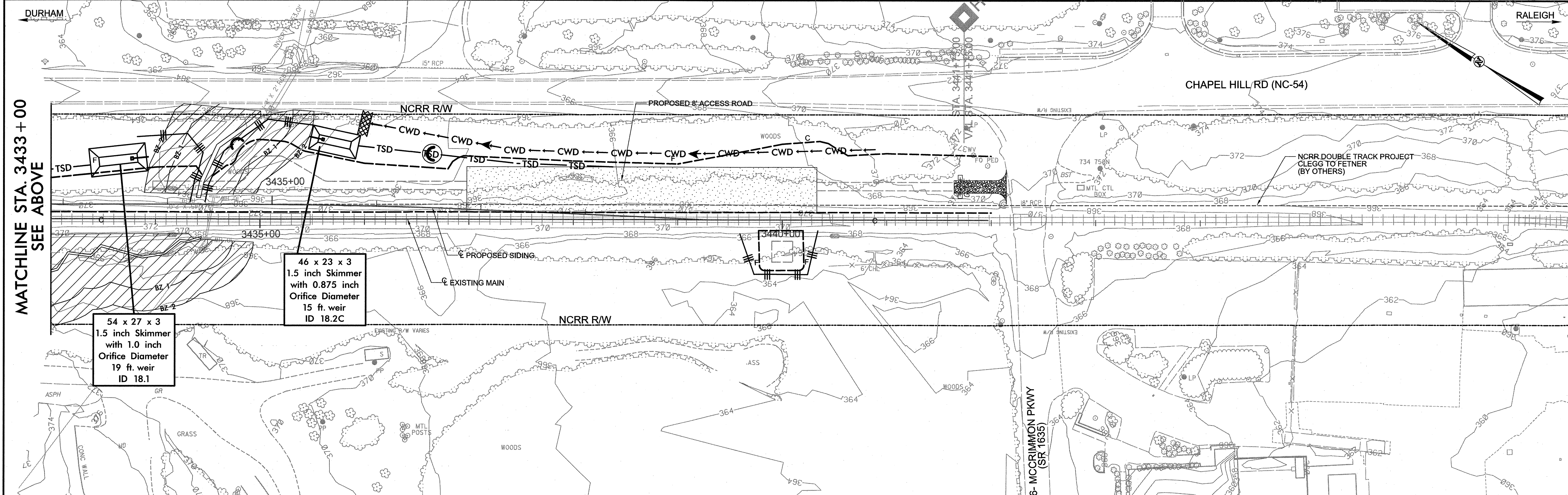
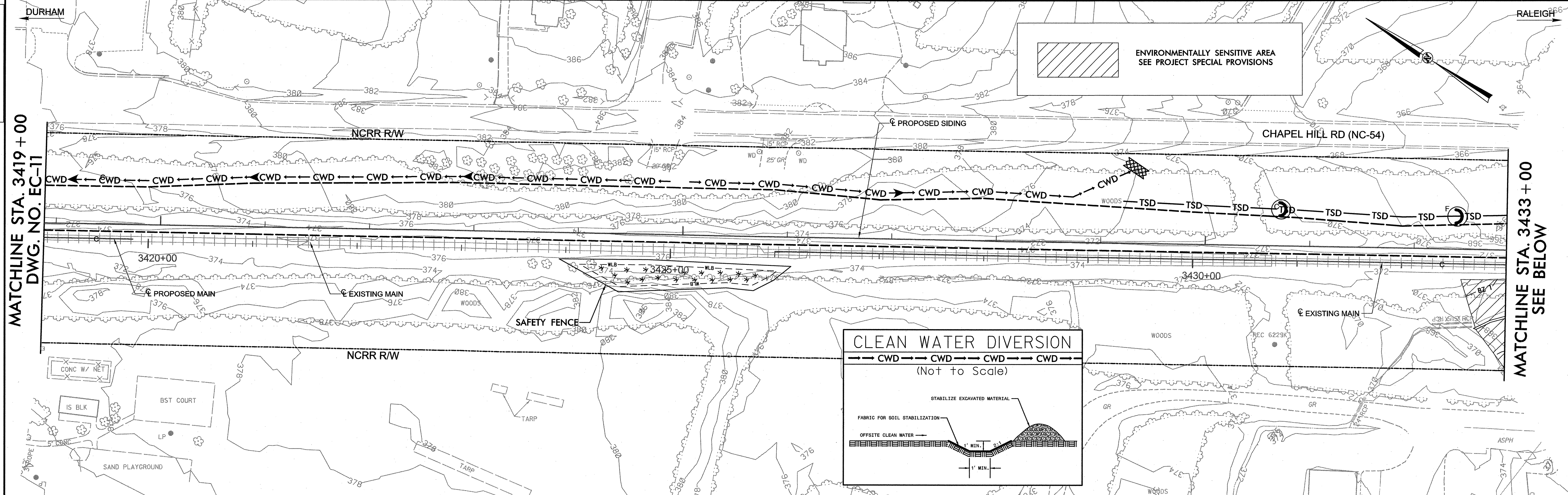
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

RAIL DIVISION

PREPARED BY:

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

PROJECT U-4716 AC CLEGG PASSING SIDING & HOPSON RD. GRADE SEPARATION		TITLE CLEARING & GRUBBING PLAN MAIN STA 3391+00 TO 3419+00	
LOCATION CP "NELSON" TO CP "CLEGG"		MILE POST H-63.2 TO H-67.0	
DGN BY FJM	RAILROAD NS / NCRR	DRAWING EC-11/CONST 15 & 16	
DWN BY RAC	VAL SEC V-24 /16-17	SHEET OF	
CHK BY JAB	DATE 9/25/12	SCALE	



46 x 23 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
15 ft. weir
ID 18.2C

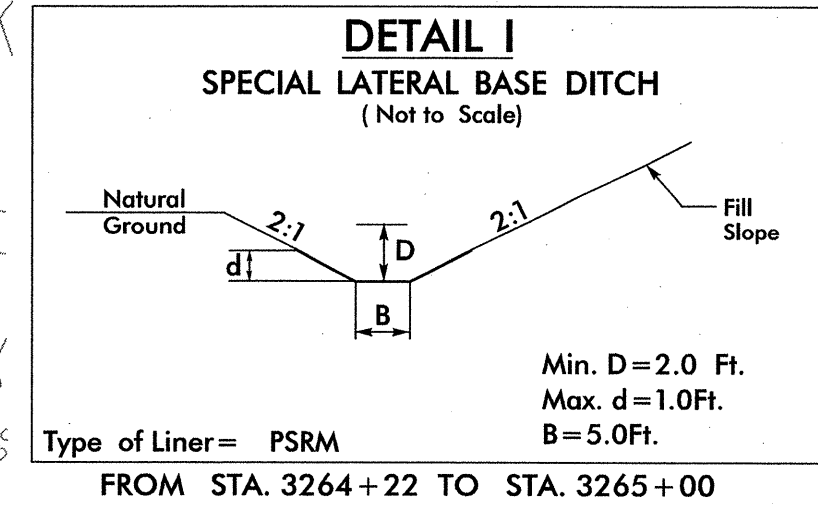
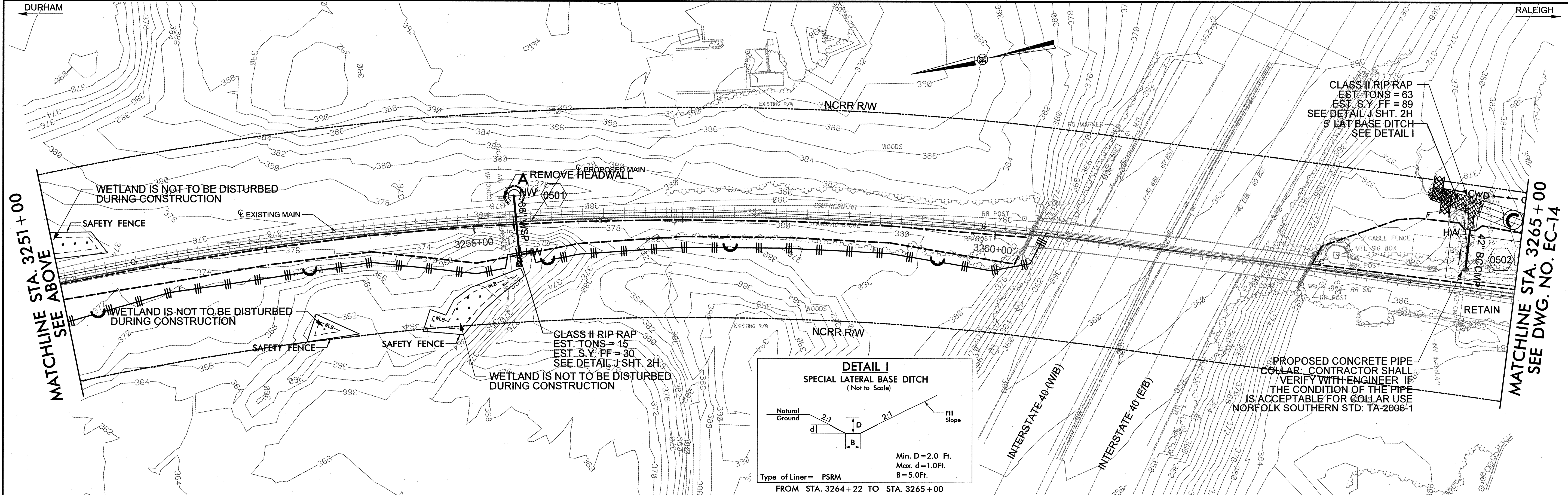
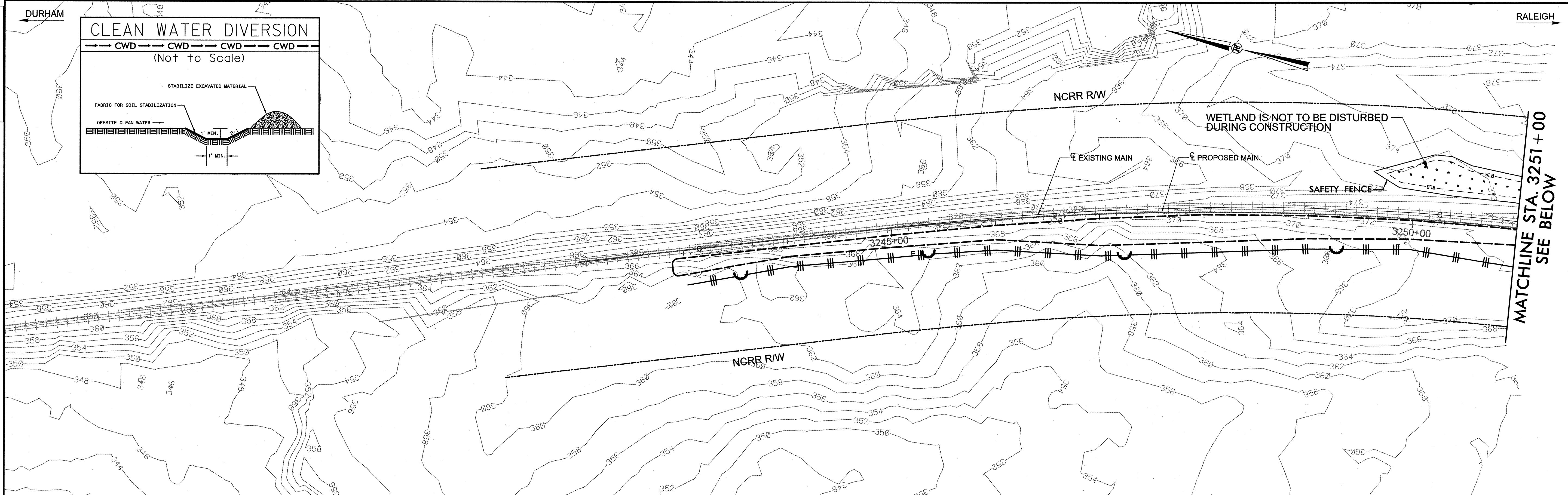
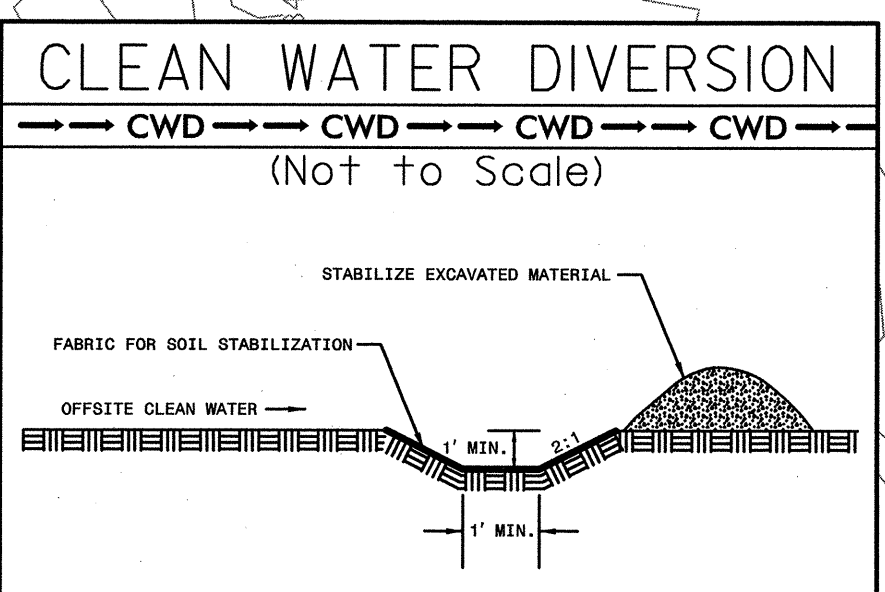
54 x 27 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
19 ft. weir
ID 18.1

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NO.	BY	DATE	REVISION

		PROJECT U-4716 AC CLEGG PASSING SIDING & HOPSON RD. GRADE SEPARATION TITLE CLEARING & GRUBBING PLAN MAIN STA 3419+00 TO 3442+25	
		LOCATION CP "NELSON" TO CP "CLEGG"	MILE POST H-63.2 TO H-67.0
DGN BY FJM	RAILROAD NS / NCRR	DRAWING EC-12 / CONST 17 & 18	
DWN BY RAC	VAL SEC V-24 / 16-17	SHEET OF	
CHK BY JAB	DATE 9/25/12	SCALE	

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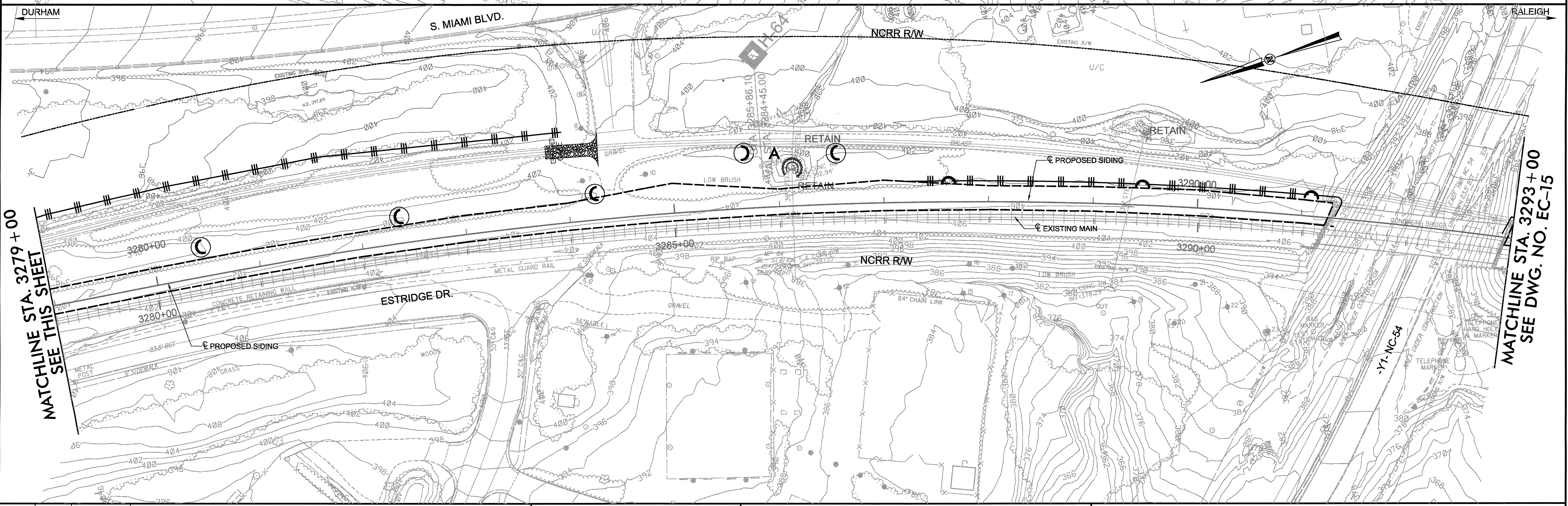
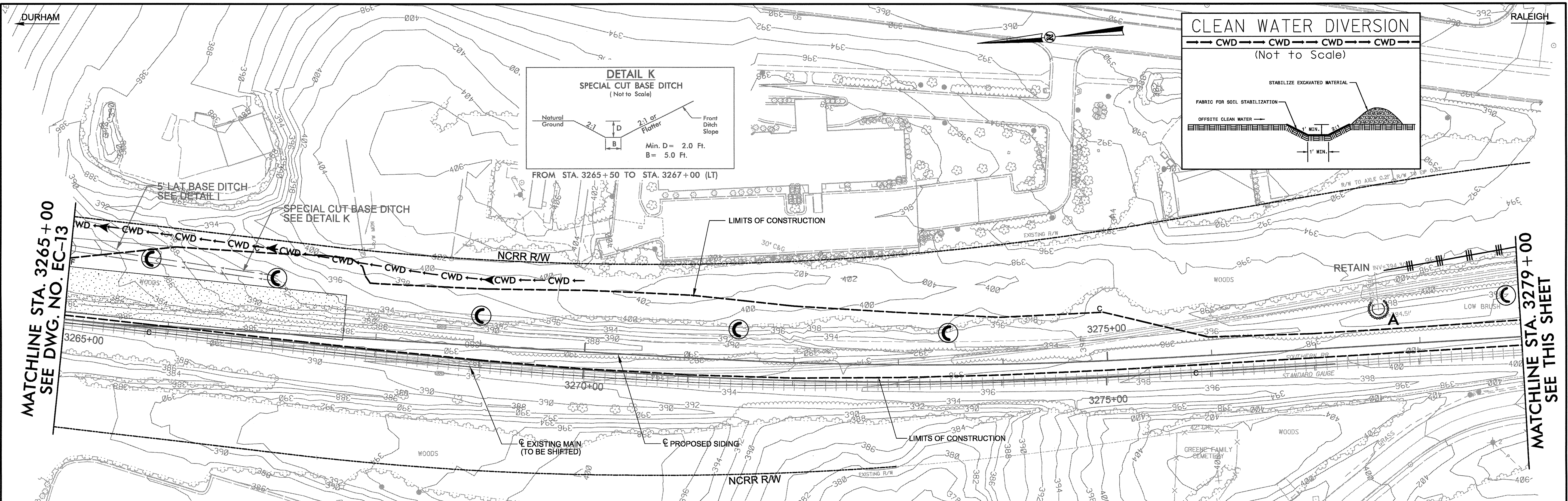
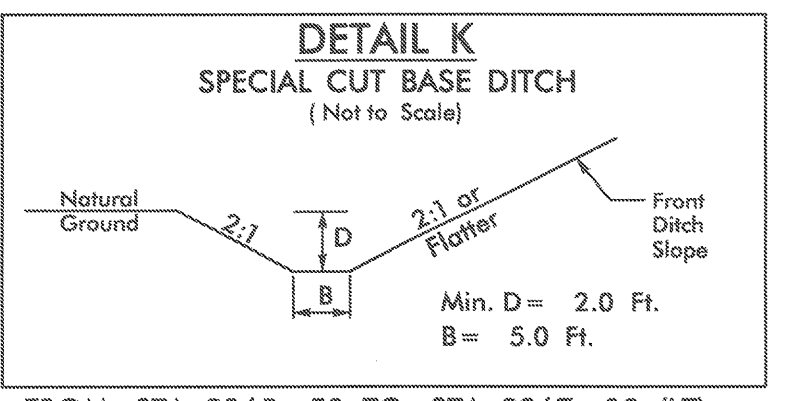
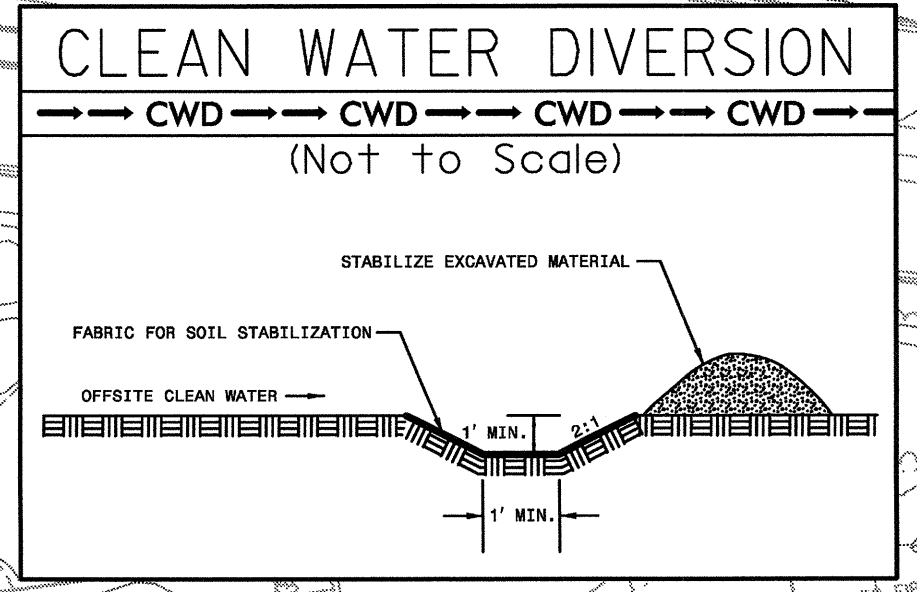
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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
RAIL DIVISION
 PREPARED BY:
HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554

PROJECT	U-4716 AC CLEGG PASSING SIDING & HOPSON RD. GRADE SEPARATION		
TITLE	EROSION CONTROL PLAN MAIN STA 3243+00 TO 3265+00		
LOCATION	CP "NELSON" TO CP "CLEGG"	MILE POST	H-63.2 TO H-67.0
DGN BY	FJM	RAILROAD	NS / NCRW
DWN BY	RAC	VAL SEC	V-24 / 16-17
CHK BY	JAB	DATE	08/10/12
SCALE			
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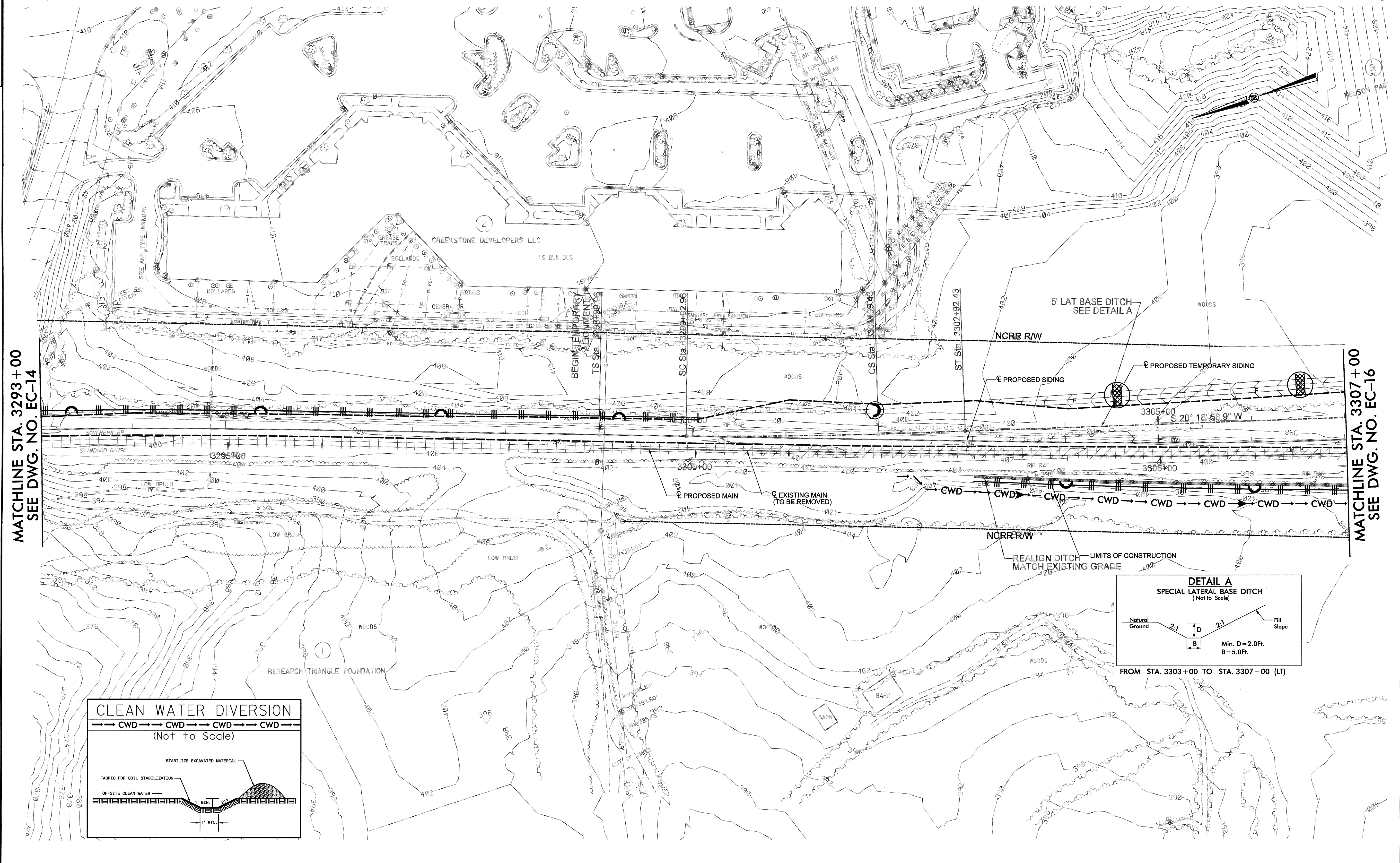
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

RAIL DIVISION

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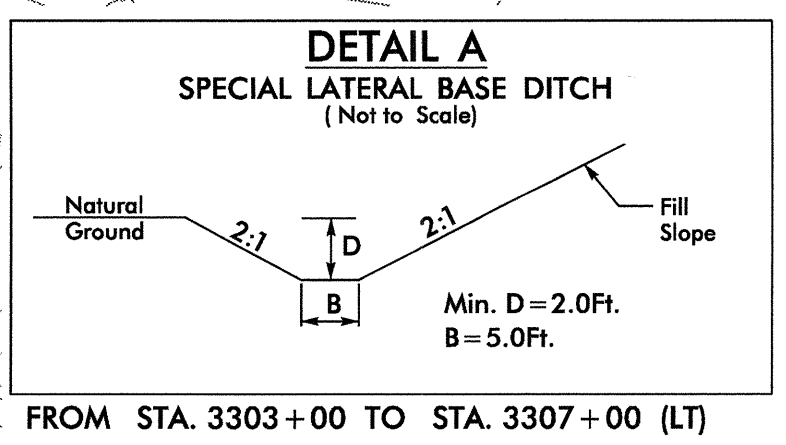
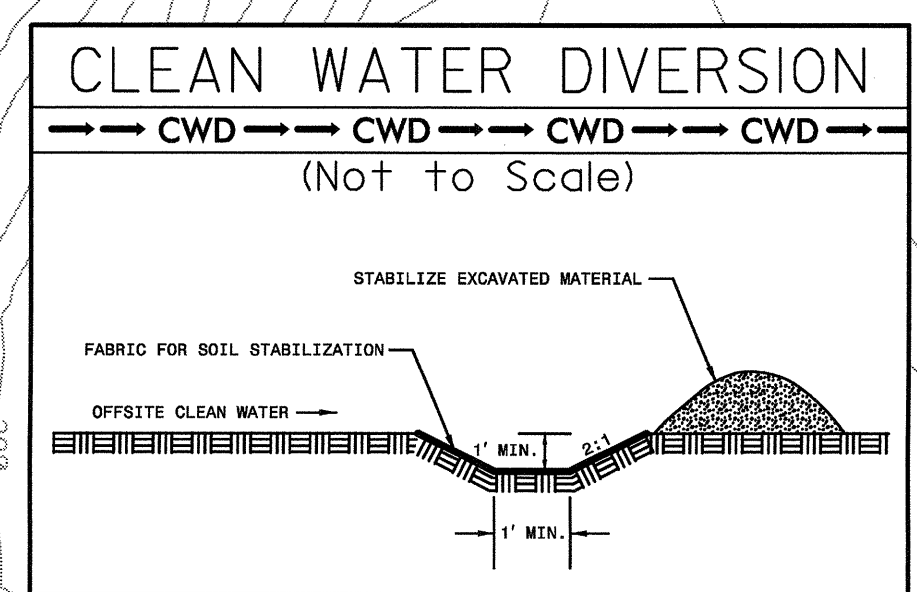
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343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

PROJECT	U-4716 AC CLEGG PASSING SIDING & HOPSON RD. GRADE SEPARATION		
TITLE	EROSION CONTROL PLAN MAIN STA 3265+00 TO 3293+00		
LOCATION	CP "NELSON" TO CP "CLEGG"	MILE POST	H-63.2 TO H-67.0
DGN BY	FJM	RAILROAD	NS / NCRW
DWN BY	RAC	VAL SEC	V-24 / 16-17
CHK BY	JAB	DATE	7/31/12
SCALE			
SHEET		OF	



MATCHLINE STA. 3293+00
SEE DWG. NO. EC-14

MATCHLINE STA. 3307+00
SEE DWG. NO. EC-16



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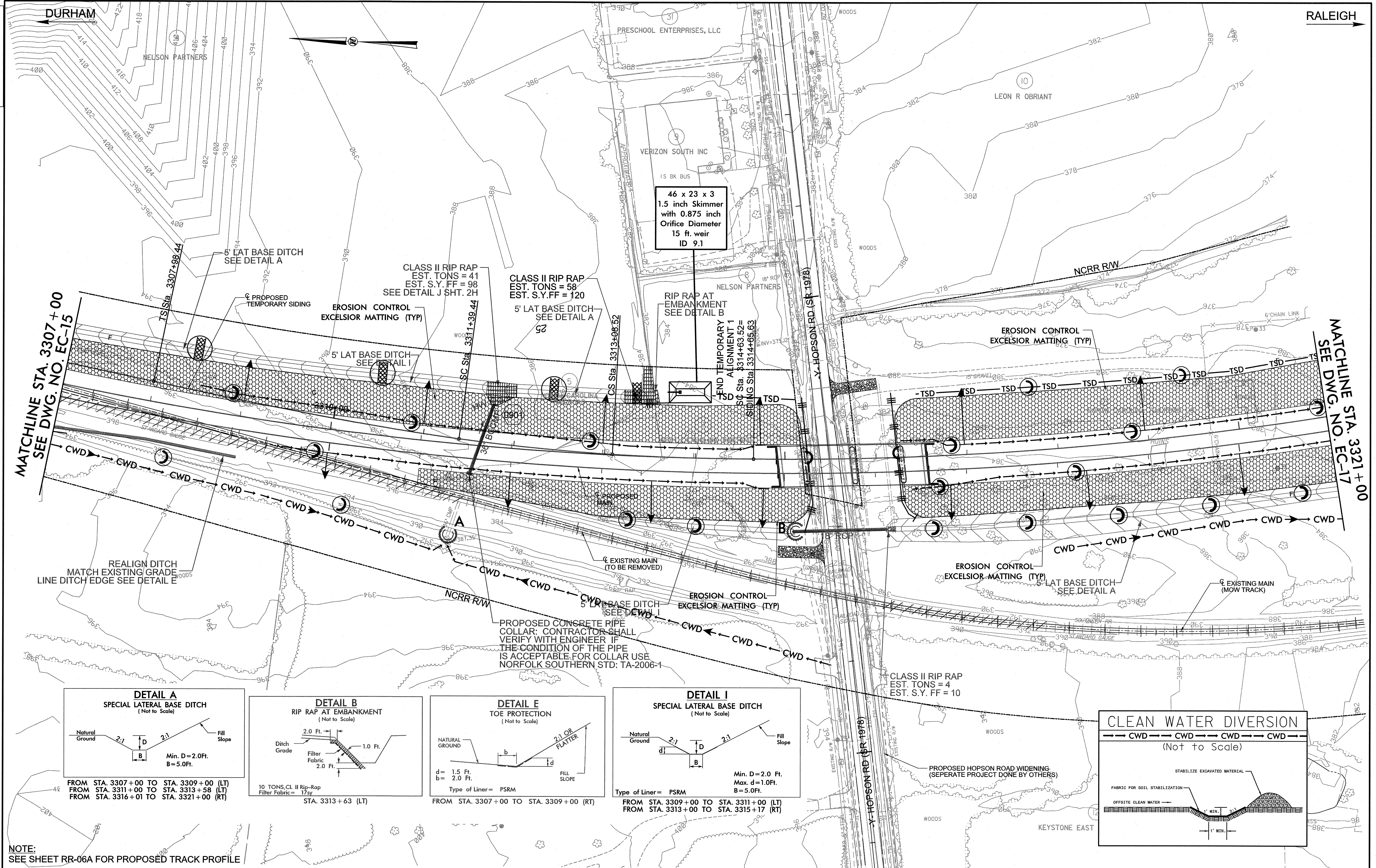
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

RAIL DIVISION

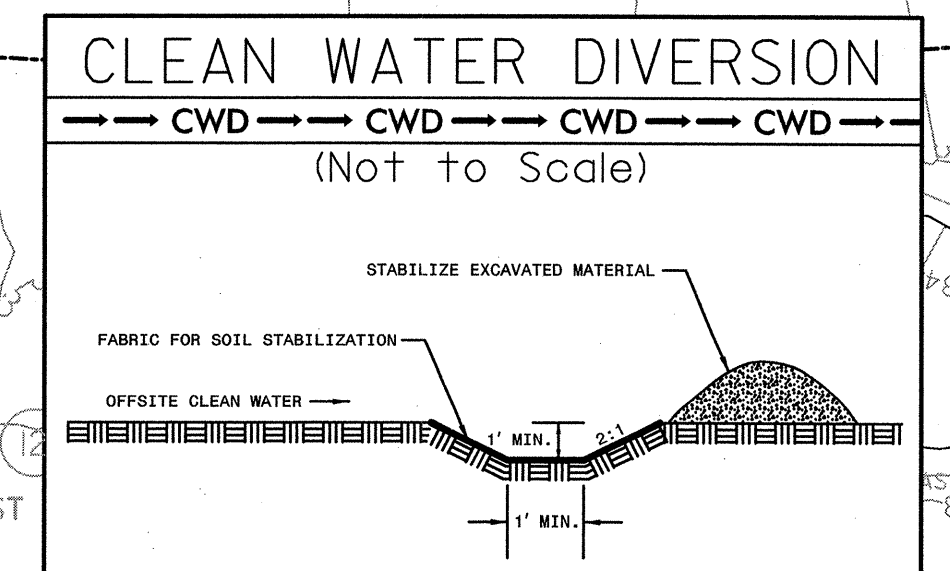
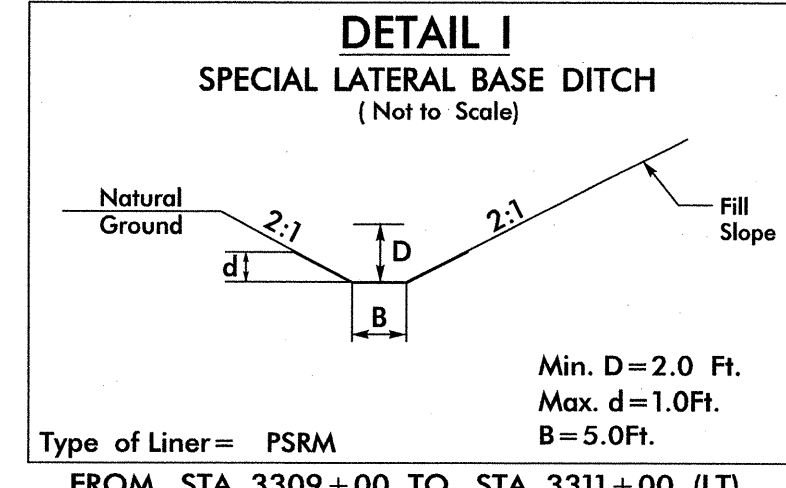
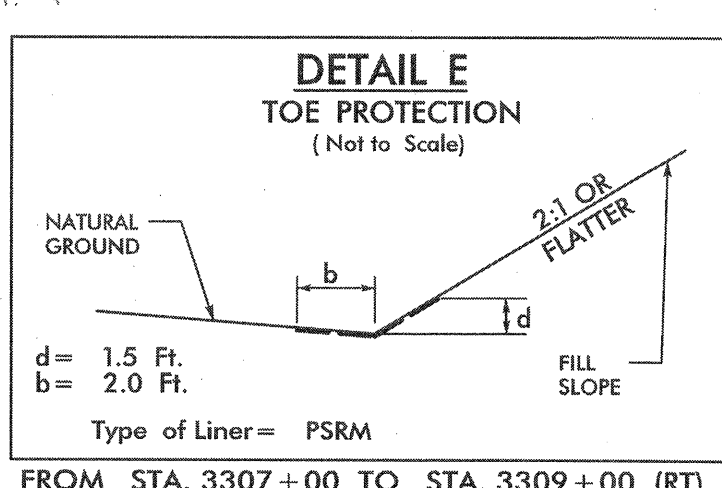
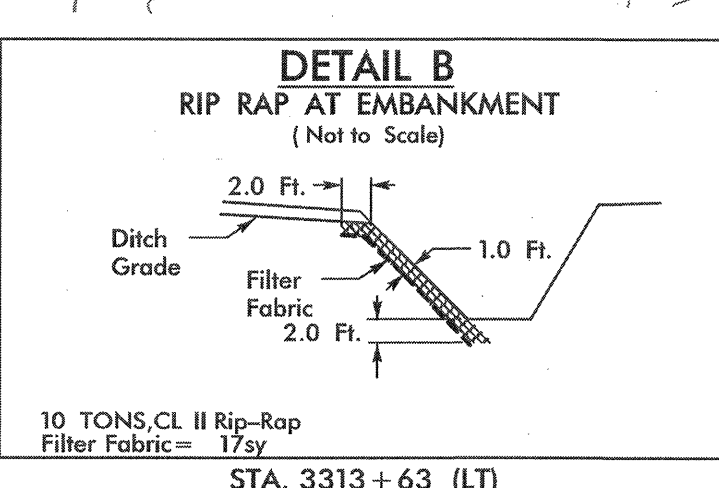
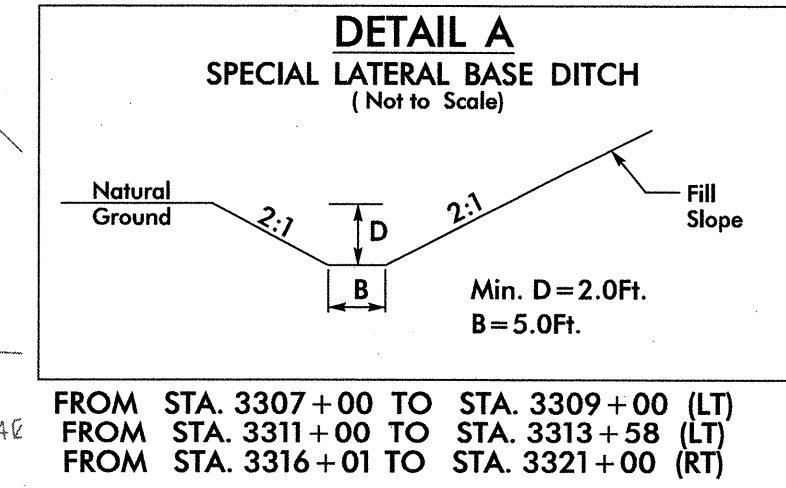
PREPARED BY: **HNTB**

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

PROJECT	U-4716 AC CLEGG PASSING SIDING & HOPSON RD. GRADE SEPARATION		
TITLE	EROSION CONTROL PLAN MAIN STA 3293+00 TO 3307+00		
LOCATION	CP "NELSON" TO CP "CLEGG"	MILE POST	H-63.2 TO H-67.0
DGN BY	FJM	RAILROAD	NS / NCR
DWN BY	RAC	VAL SEC	V-24 /16-17
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SCALE		SHEET	OF



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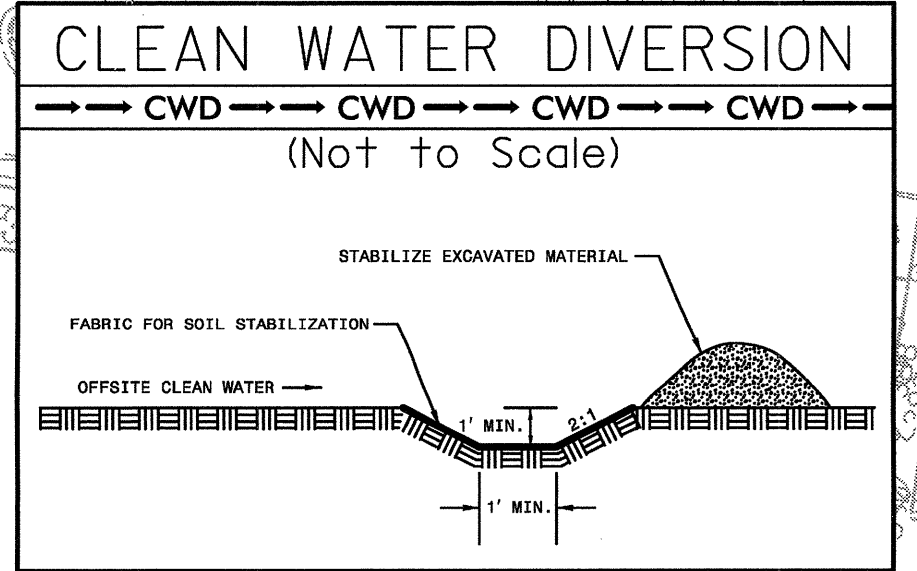
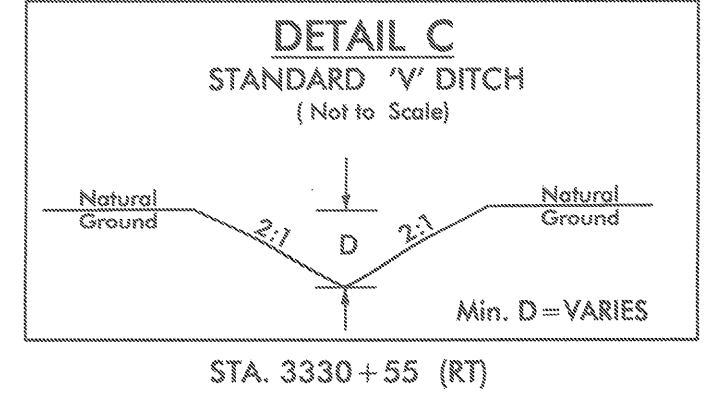
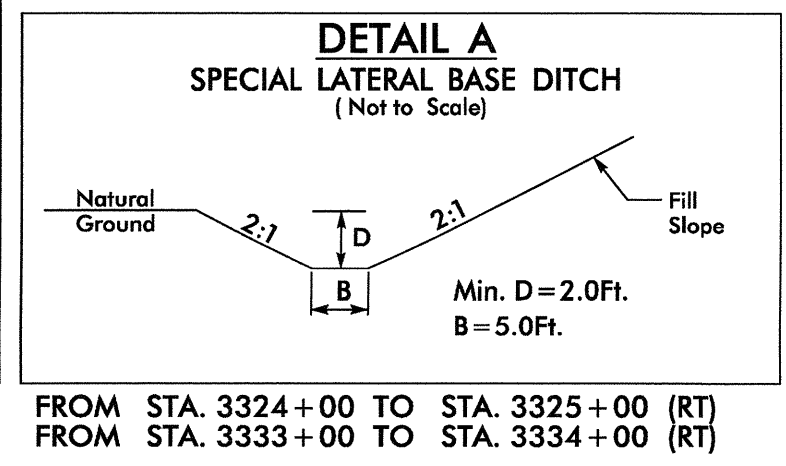
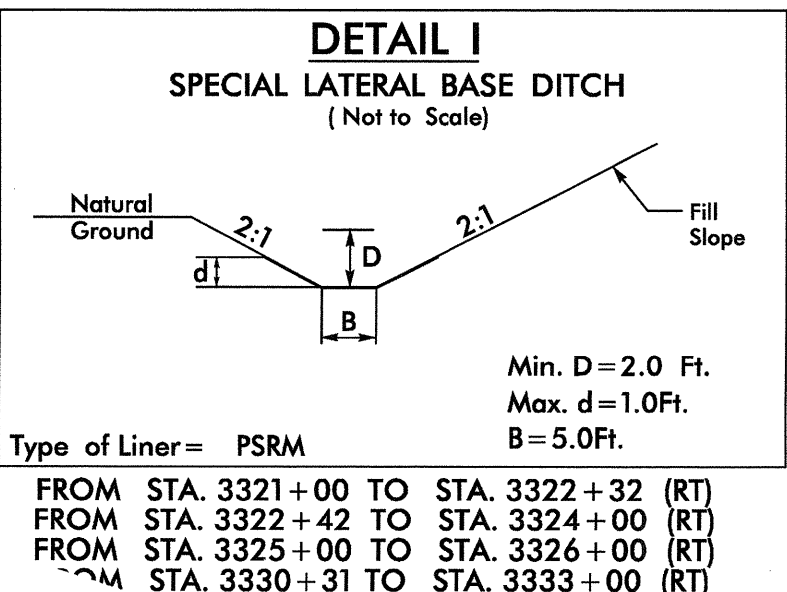
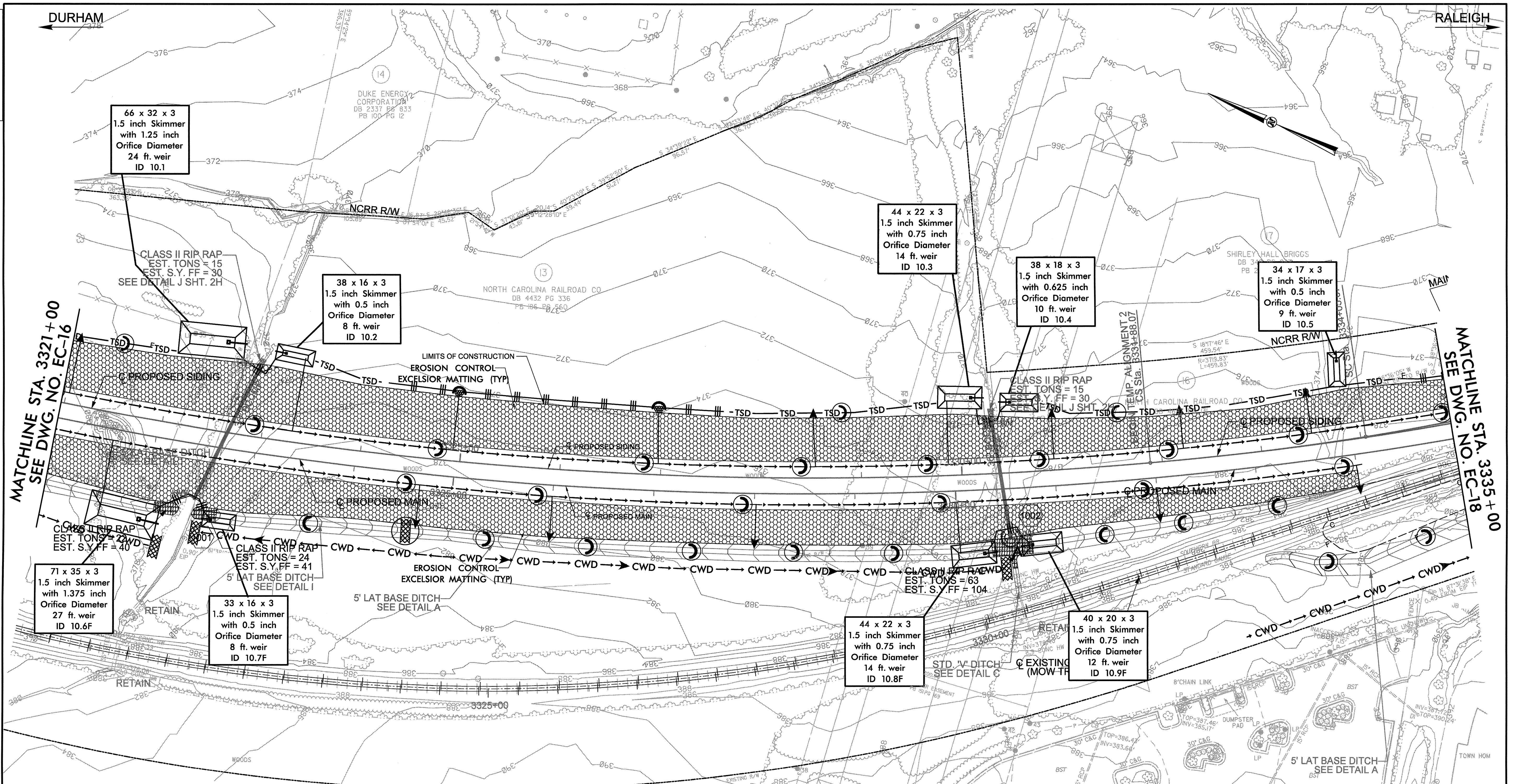
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343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

PROJECT	U-4716 AC CLEGG PASSING SIDING & HOPSON RD. GRADE SEPARATION		
TITLE	EROSION CONTROL PLAN MAIN STA 3307+00 TO 3321+00		
LOCATION	CP "NELSON" TO CP "CLEGG"	MILE POST	H-63.2 TO H-67.0
DGN BY	FJM	RAILROAD	NS / NCR
DWN BY	RAC	VAL SEC	V-24 /16-17
CHK BY	JAB	DATE	8/10/12
SCALE		SHEET	OF



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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

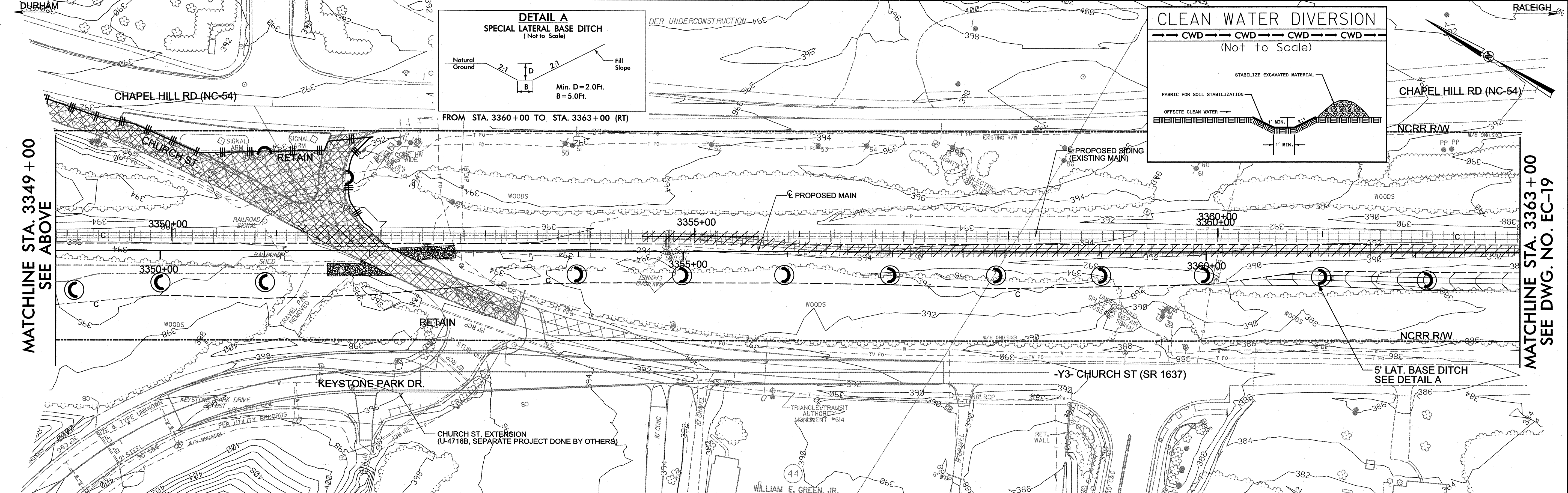
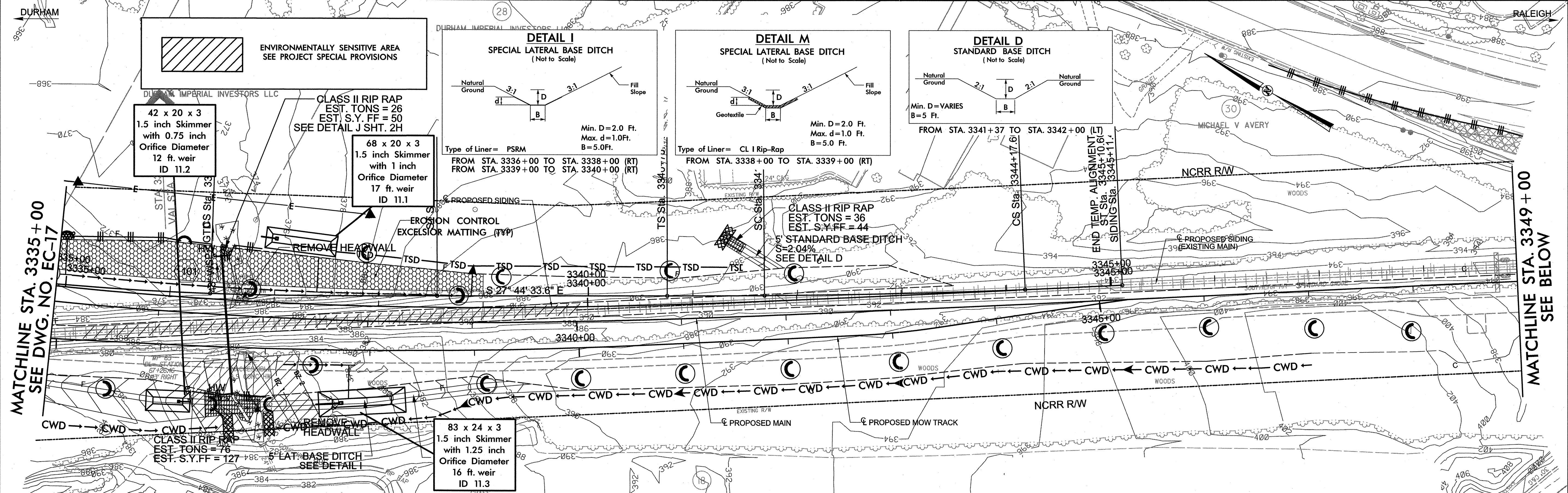
RAIL DIVISION

PREPARED BY: **HNTB**

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

PROJECT U-4716 AC CLEGG PASSING SIDING & HOPSON RD. GRADE SEPARATION		MILE POST H-63.2 TO H-67.0	
TITLE EROSION CONTROL PLAN MAIN STA 3321+00 TO 3335+00			
LOCATION CP "NELSON" TO CP "CLEGG"	RAILROAD NS / NCCR	DRAWING EC-17 / CONST 10	SHEET OF
DGN BY FJM	VAL SEC V-24 /16-17	DATE 7/31/12	SCALE
DWNI BY RAC	DATE	SCALE	SHEET OF
CHK BY JAB	DATE	SCALE	SHEET OF

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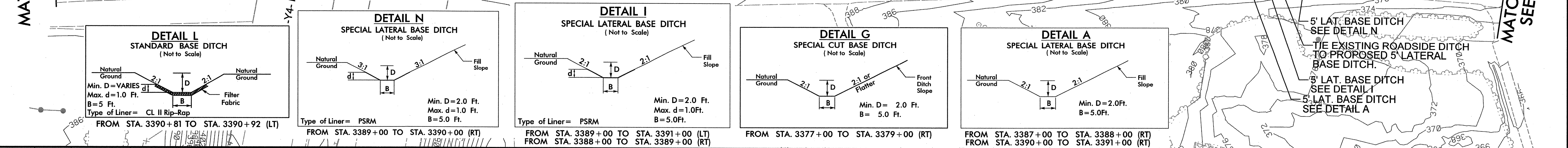
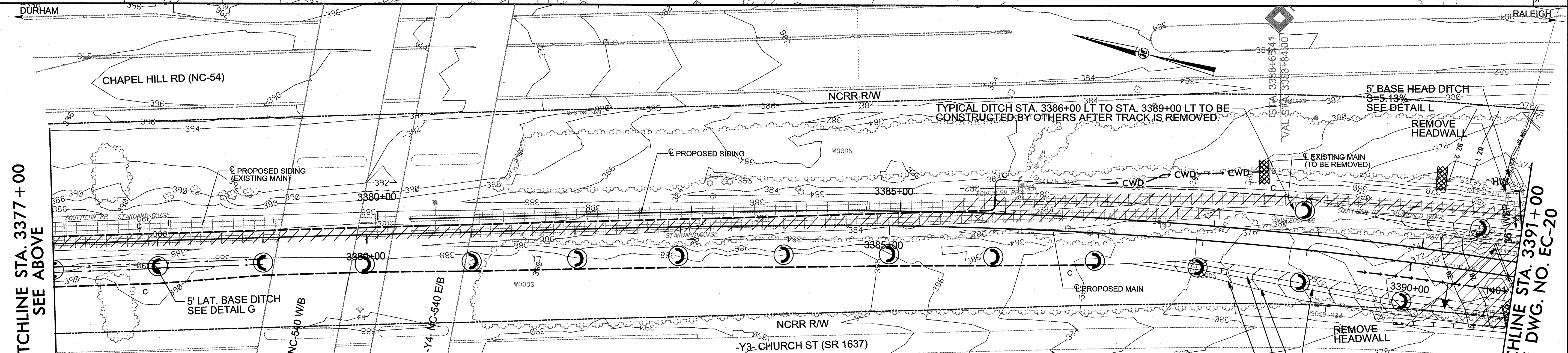
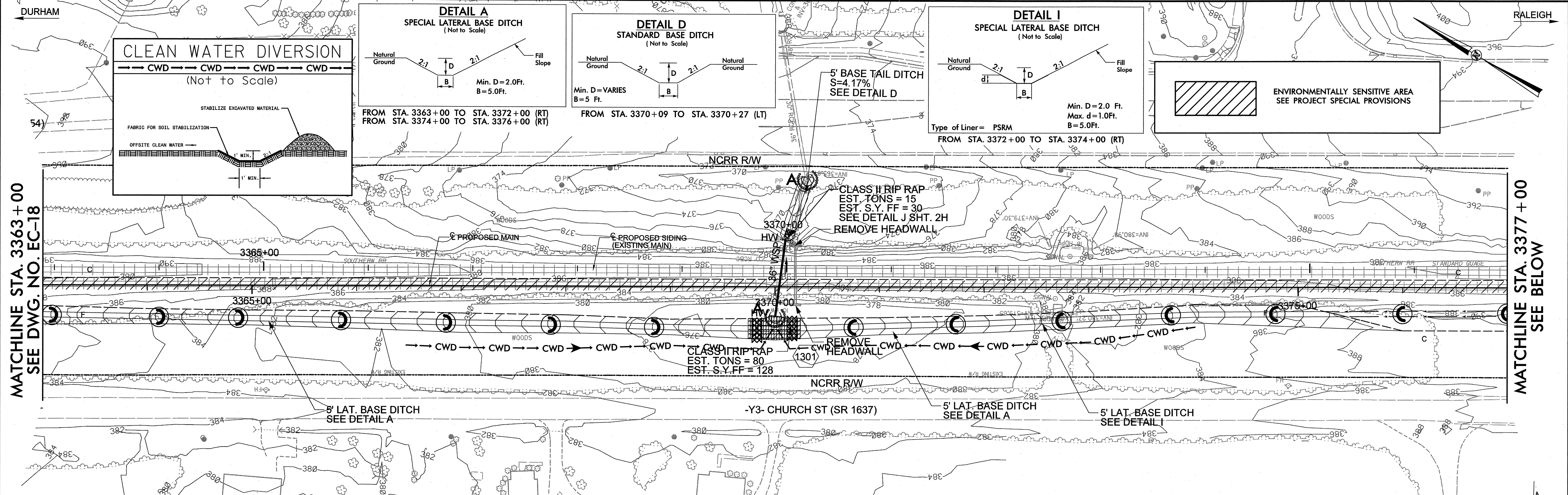
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
RAIL DIVISION

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

PROJECT TITLE	U-4716 AC CLEGG PASSING SIDING & HOPSON RD. GRADE SEPARATION EROSION CONTROL PLAN MAIN STA 3335+00 TO 3363+00		
LOCATION	CP "NELSON" TO CP "CLEGG"	MILE POST	H-63.2 TO H-67.0
DGN BY	FJM	RAILROAD	NS / NCRR
DWN BY	RAC	VAL SEC	V-24 / 16-17
CHK BY	JAB	DATE	10/30/12
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0001ADD_P17-18



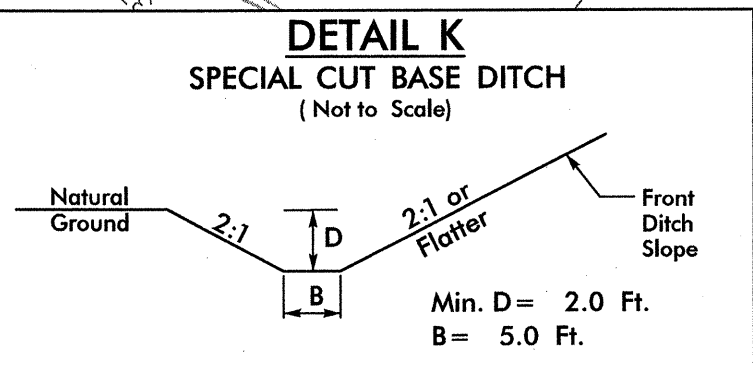
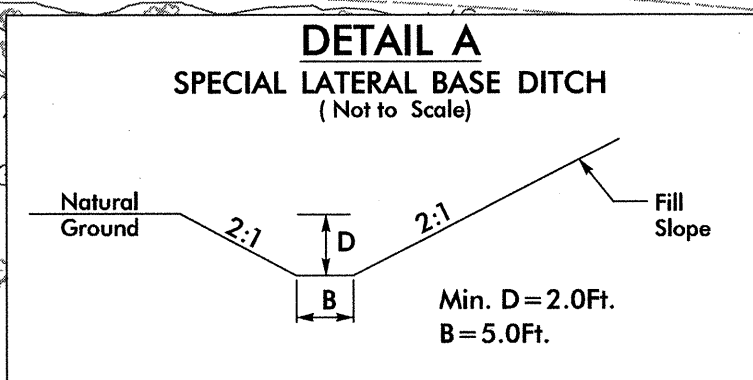
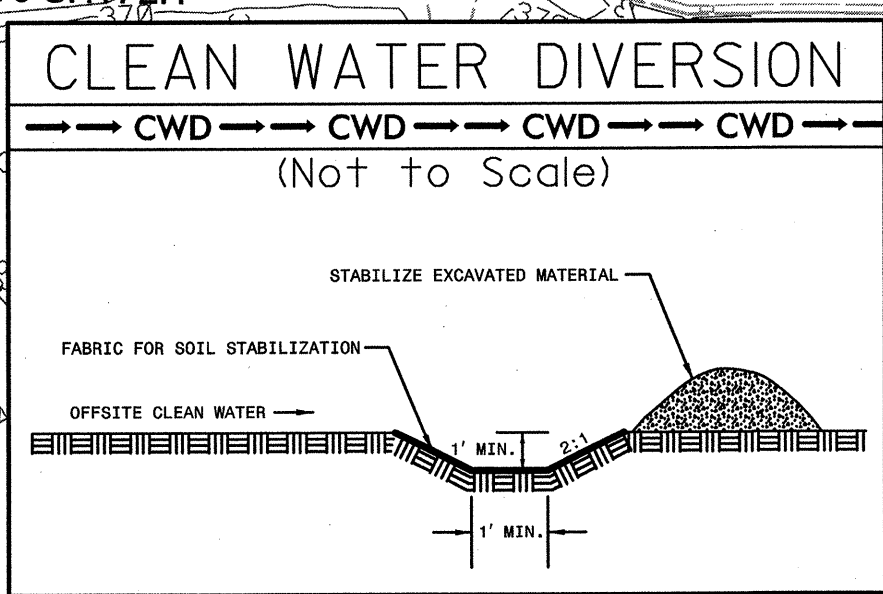
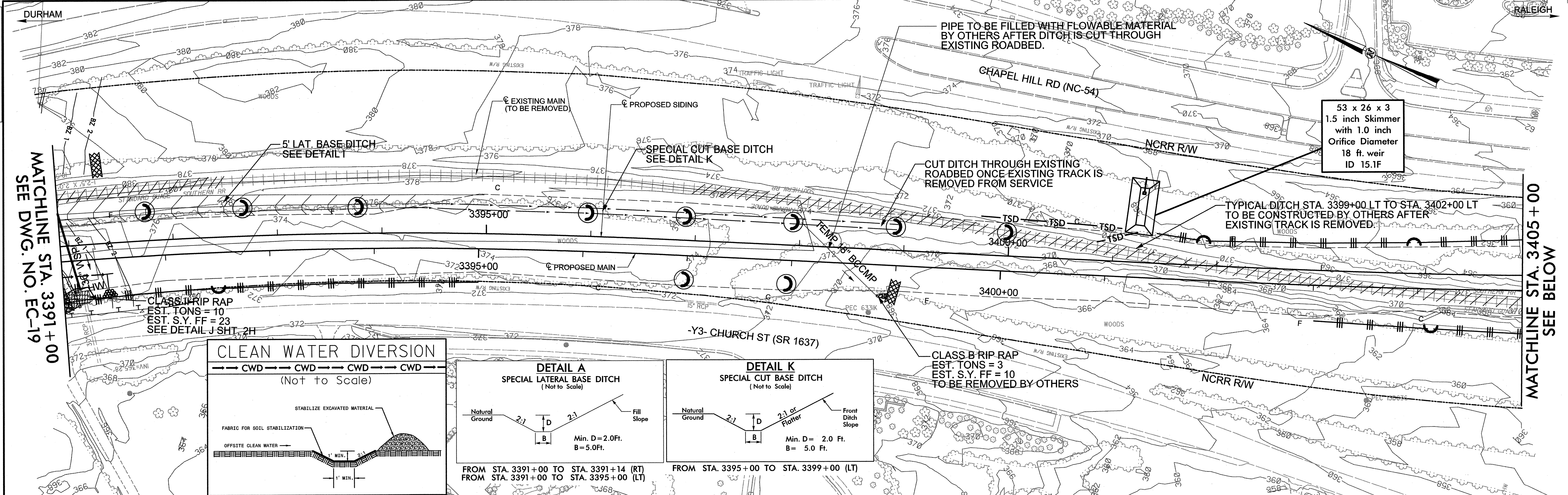
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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
RAIL DIVISION

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

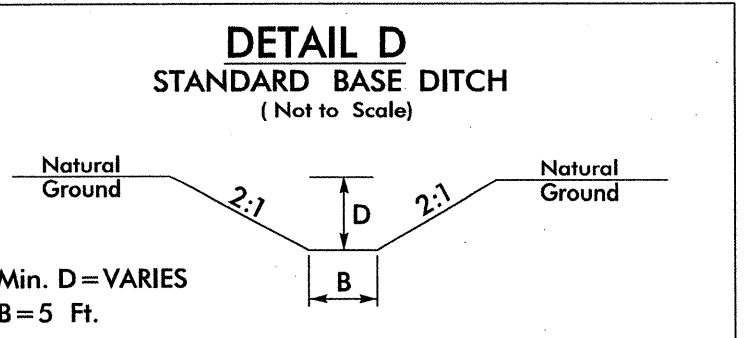
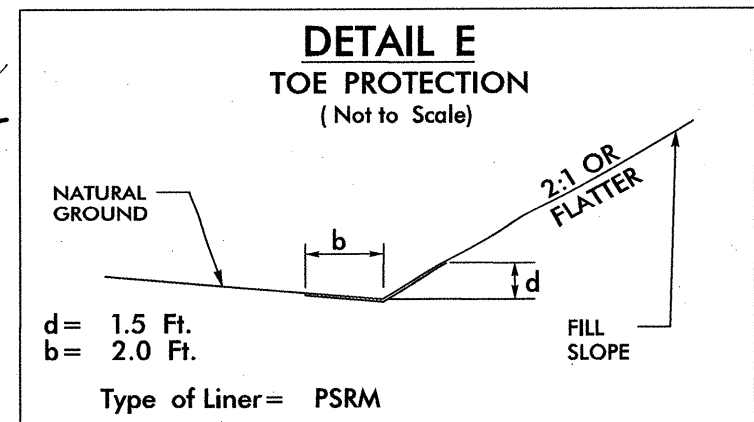
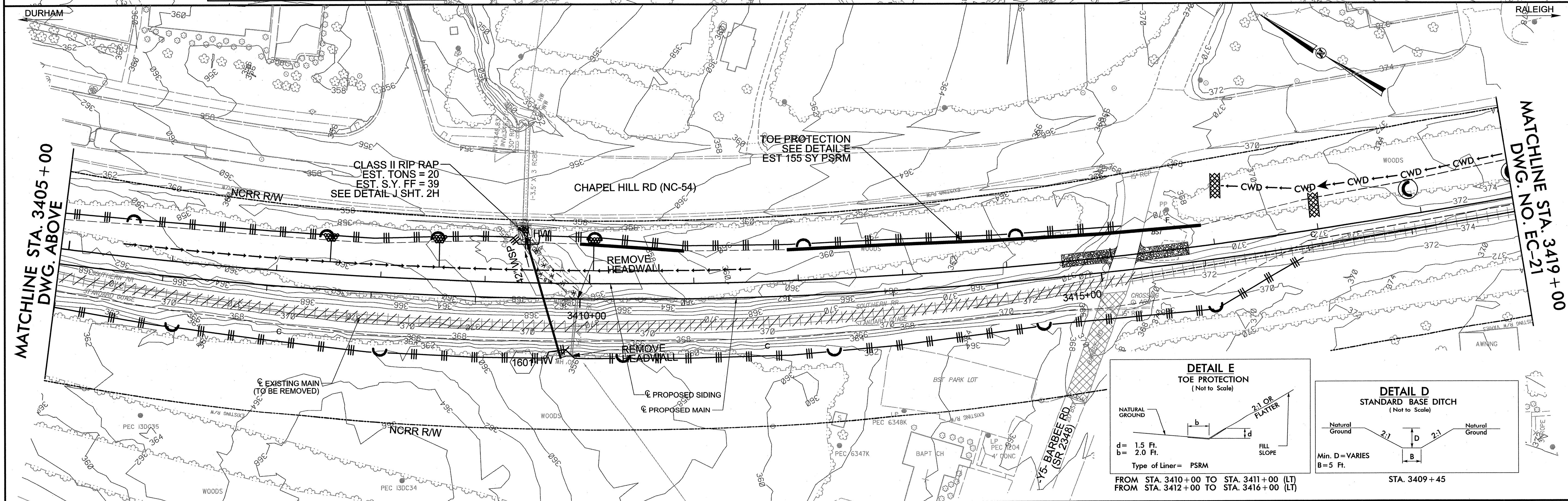
PROJECT	U-4716 AC CLEGG PASSING SIDING & HOPSON RD. GRADE SEPARATION		
TITLE	EROSION CONTROL PLAN MAIN STA 3363+00 TO 3391+00		
LOCATION	CP "NELSON" TO CP "CLEGG"	MILE POST	H-63.2 TO H-67.0
DGN BY	FJM	RAILROAD	NS / NCRR
DWN BY	RAC	VAL SEC	V-24 / 16-17
CHK BY	JAB	DATE	10/30/12
		SCALE	
			SHEET OF

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Plan Sheets\hopson_ec19.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$



FROM STA. 3391+00 TO STA. 3391+14 (RT)
FROM STA. 3391+00 TO STA. 3395+00 (LT)

FROM STA. 3395+00 TO STA. 3399+00 (LT)



FROM STA. 3410+00 TO STA. 3411+00 (LT)
FROM STA. 3412+00 TO STA. 3416+00 (LT)

STA. 3409+45

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NO.	BY	DATE	REVISION

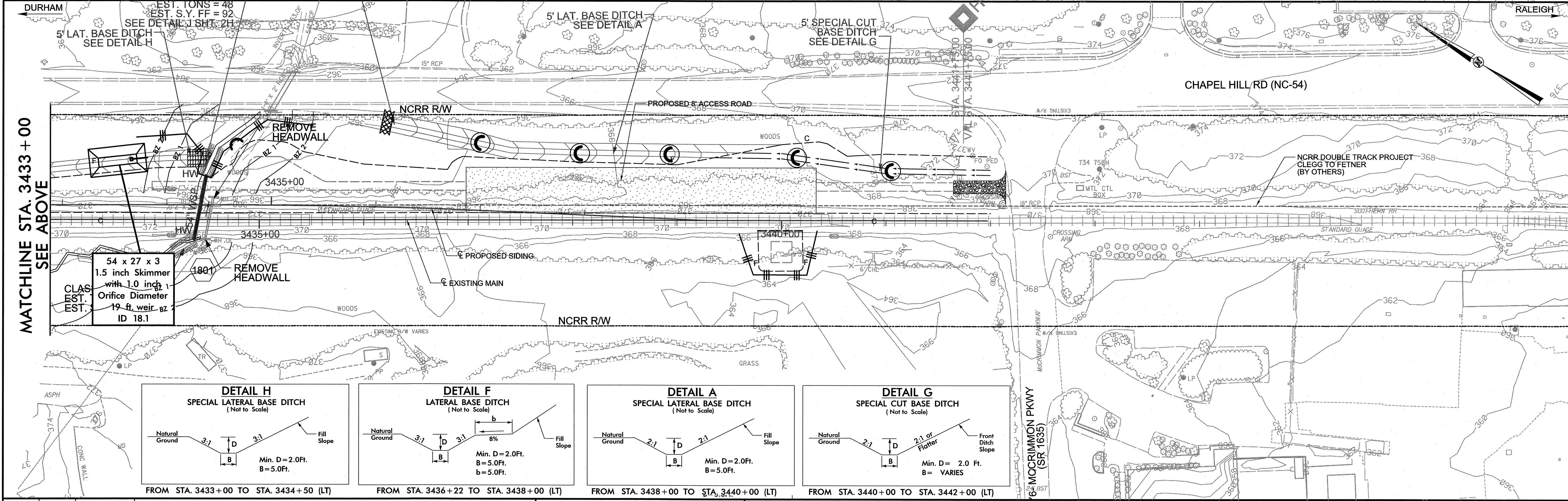
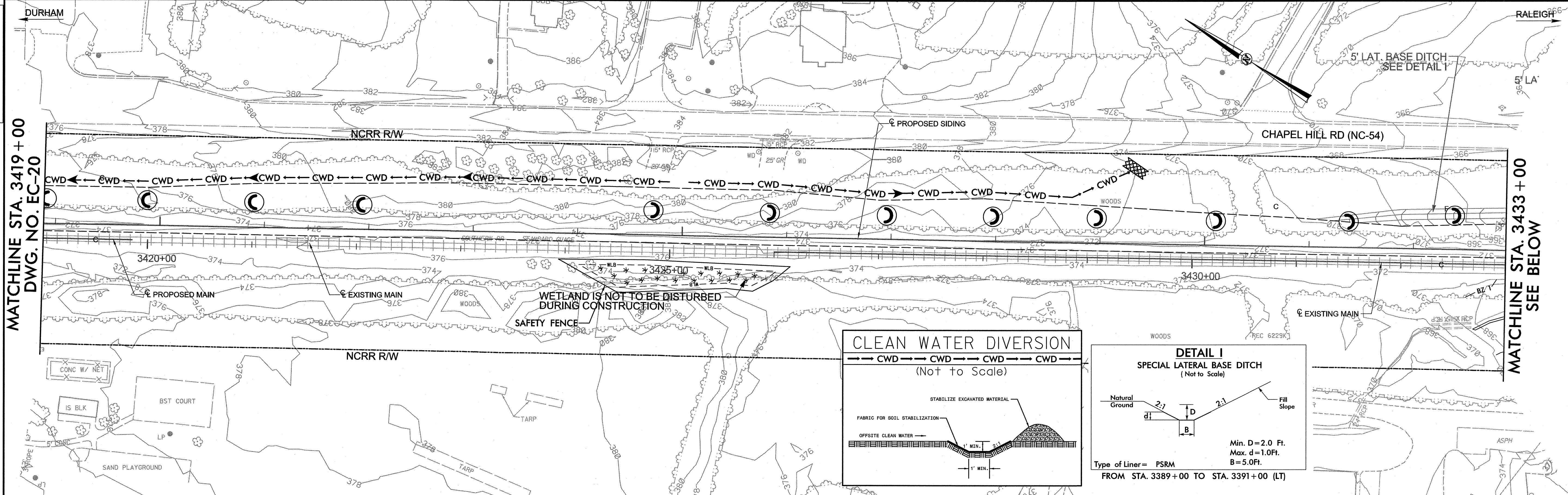
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

RAIL DIVISION

PREPARED BY: **HNTB**

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

PROJECT U-4716 A/C CLEGG PASSING SIDING & HOPSON RD. GRADE SEPARATION			
TITLE EROSION CONTROL PLAN MAIN STA 3391+00 TO 3419+00			
LOCATION	CP "NELSON" TO CP "CLEGG"	MILE POST	H-63.2 TO H-67.0
DGN BY	FJM	RAILROAD	NS / NCCR
DWN BY	RAC	VAL SEC	V-24 / 16-17
CHK BY	JAB	DATE	08/15/12
		SCALE	
		DRAWING EC-20 / CONST 15 & 16	
		SHEET OF	



<p>NO. BY DATE REVISION</p>				<p>PREPARED BY: HNTB HNTB NORTH CAROLINA, P.C. 343 E. Six Forks Road, Suite 200 Raleigh, North Carolina 27609 NC License No: C-1554</p>		<p>PROJECT U-4716 AC CLEGG PASSING SIDING & HOPSON RD. GRADE SEPARATION TITLE EROSION CONTROL PLAN MAIN STA 3419+00 TO 3442+25</p>	
				<p>LOCATION CP "NELSON" TO CP "CLEGG"</p>		<p>MILE POST H-63.2 TO H-67.0</p>	
				<p>DGN BY FJM RAILROAD NS / NCRW</p>		<p>DRAWING EC-21/CONST 17 & 18</p>	
				<p>DWN BY RAC VAL SEC V-24 /16-17</p>		<p>SHEET OF</p>	
				<p>CHK BY JAB DATE 08/10/12 SCALE</p>			

9:39:36 AM Sheets\hopson_ec21.dgn
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MATCHLINE STA. 3419 + 00
 DWG. NO. EC-20

MATCHLINE STA. 3433 + 00
 SEE ABOVE

MATCHLINE STA. 3433 + 00
 SEE BELOW