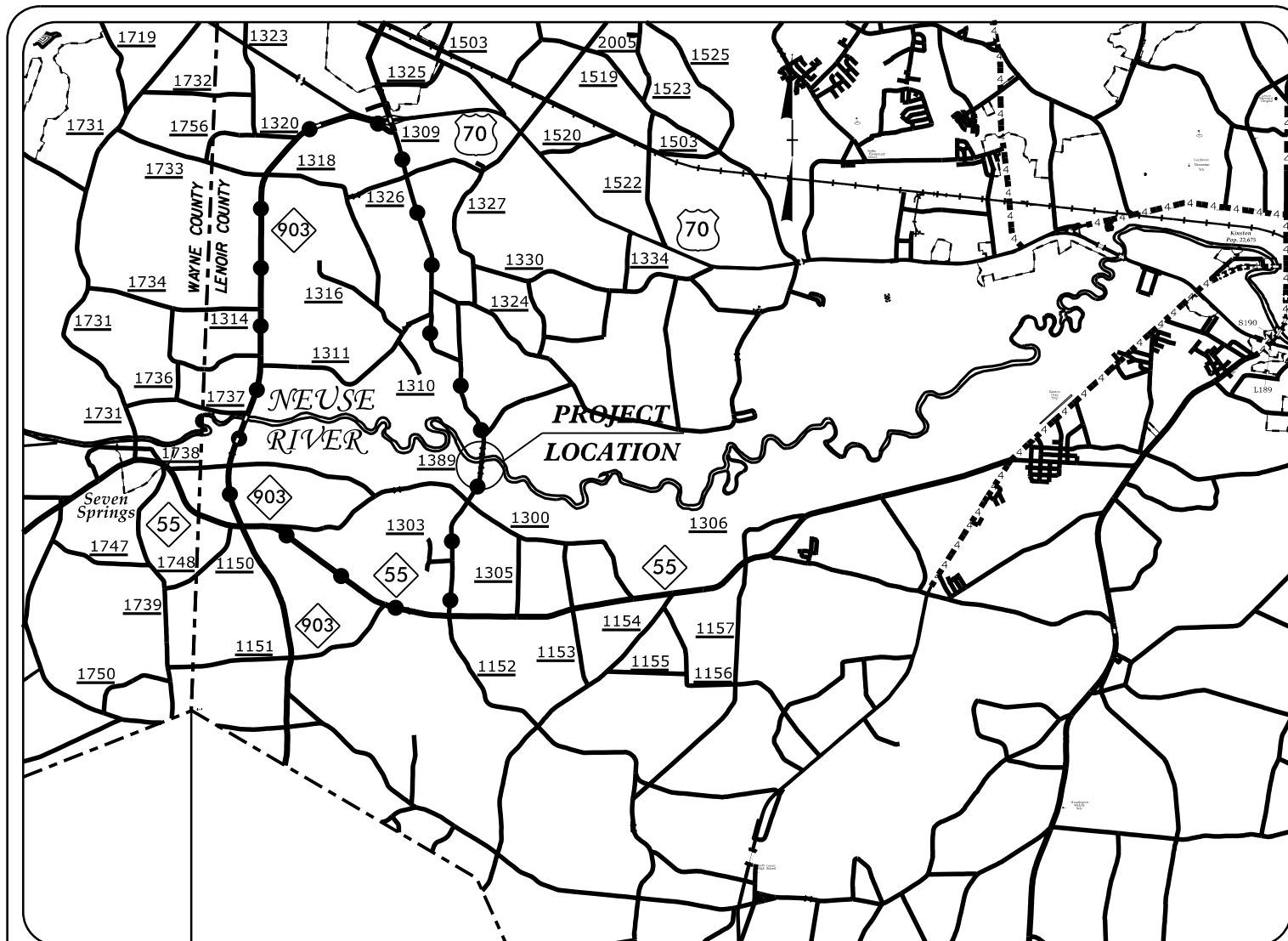


TIP PROJECT: B-5619

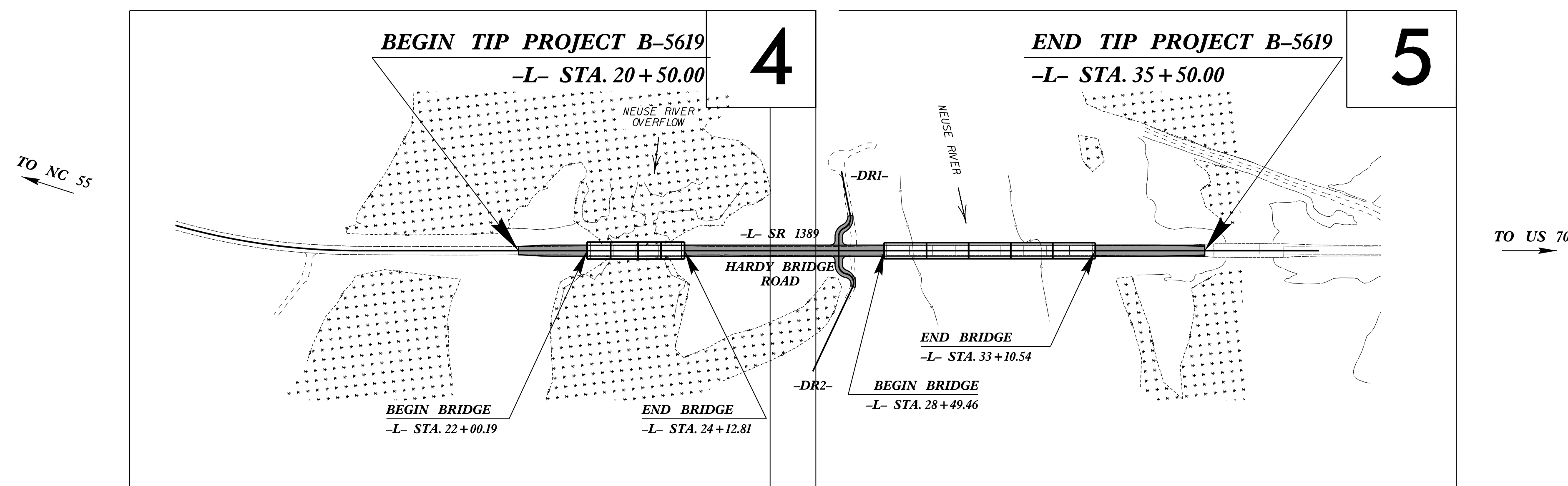
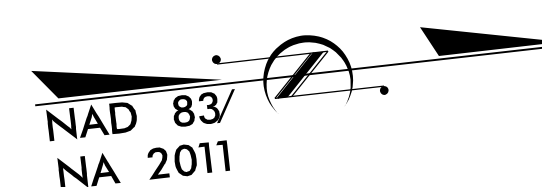


VICINITY MAP
NOT TO SCALE

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

LENOIR COUNTY

LOCATION: BRIDGE NO. 52 OVER NEUSE RIVER AND
BRIDGE NO. 152 OVER NEUSE RIVER OVERFLOW ON
SR 1389 (HARDY BRIDGE ROAD)
TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURE



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5619	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45574.1.1	NA	PE	
45574.2.1	BRZ-1389(003)	RW & UTILITY	
45574.3.1	BRZ-1389(003)	CONST.	

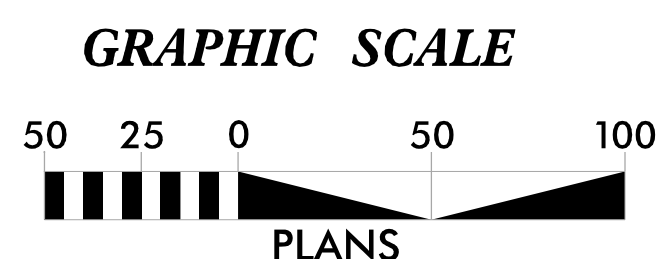
EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	---
1630.05	Temporary Diversion	---
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	---X---
1622.01	Temporary Berms and Slope Drains	---X---
1630.02	Silt Basin Type B	---X---
1633.01	Temporary Rock Silt Check Type-A	---X---
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	---X---
1633.02	Temporary Rock Silt Check Type-B	---X---
	Wattle / Coir Fiber Wattle	---X---
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	---X---
1634.01	Temporary Rock Sediment Dam Type-A	---X---
1634.02	Temporary Rock Sediment Dam Type-B	---X---
1635.01	Rock Pipe Inlet Sediment Trap Type-A	---X---
1635.02	Rock Pipe Inlet Sediment Trap Type-B	---X---
1630.04	Stilling Basin	---X---
1630.06	Special Stilling Basin	---X---
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	---X---
	Tiered Skimmer Basin	---X---
	Infiltration Basin	---X---

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.



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.

Mead & Hunt

Prepared in the Office of:

Mead & Hunt

111 E. Hargett Street, Suite 300
Raleigh, North Carolina 27601
919-714-8670 | meadhunt.com
NC License No. F-1235

Designed by:

RICHARD HINTON, EI

NAME

4176

LEVEL III CERTIFICATION NO.

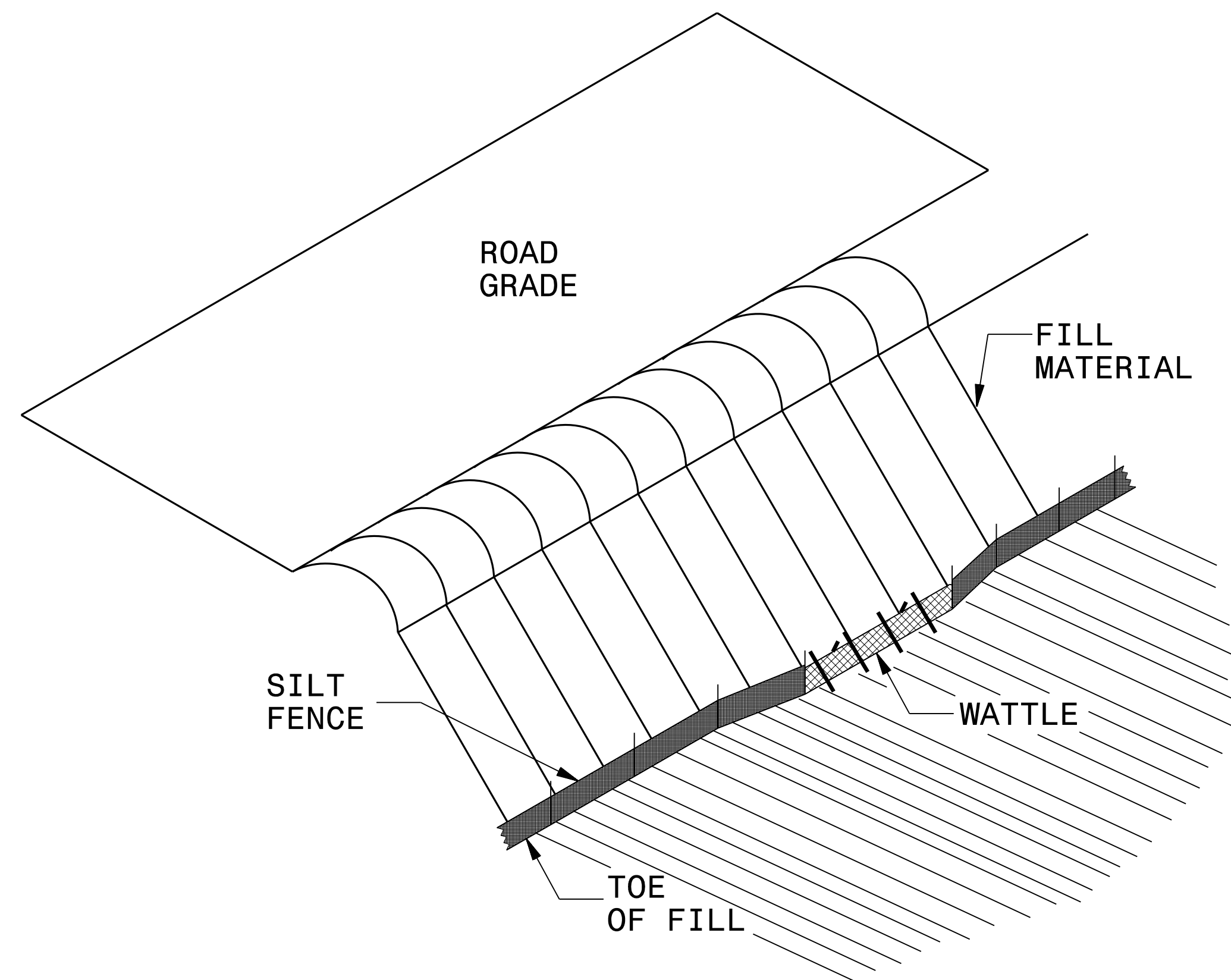
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 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 J
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 J
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type J	1634.02 Temporary Rock Sediment Dam Type J
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 J
1630.05 Temporary Diversion	1640.01 Coir Fiber Wattle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

SILT FENCE WATTLE BREAK DETAIL

PROJECT REFERENCE NO. <i>B-5619</i>	SHEET NO. <i>EC-2</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

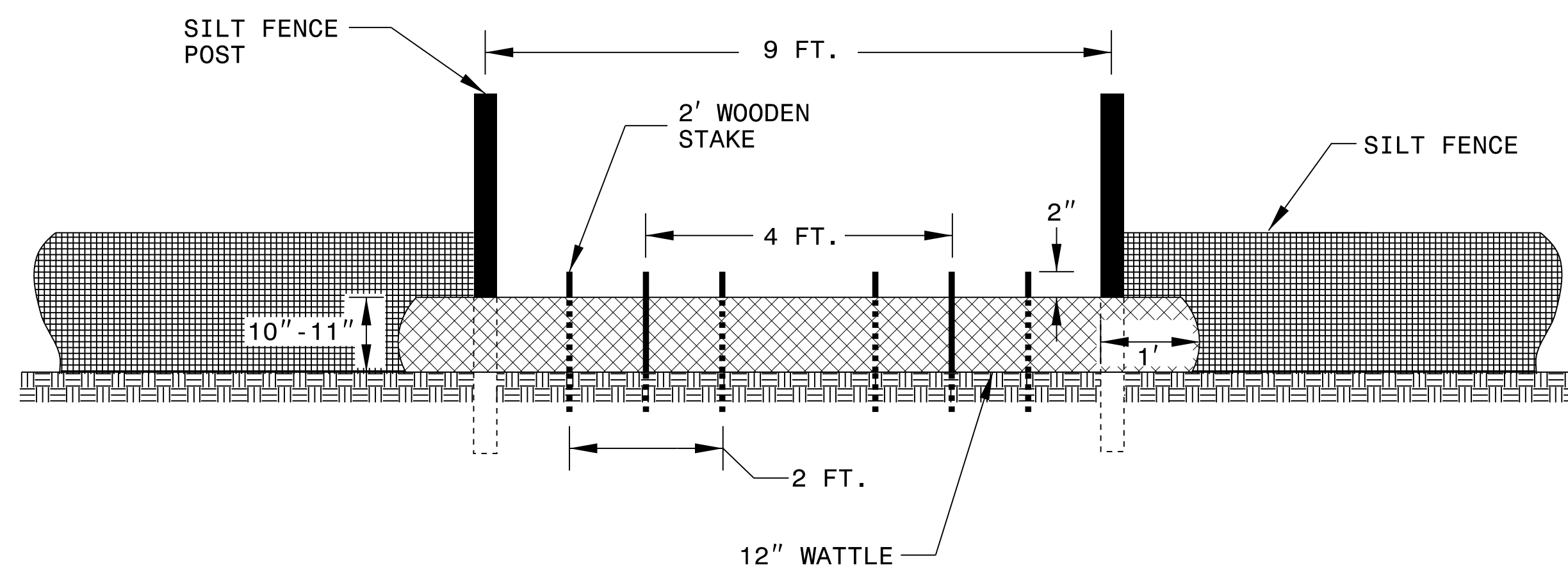
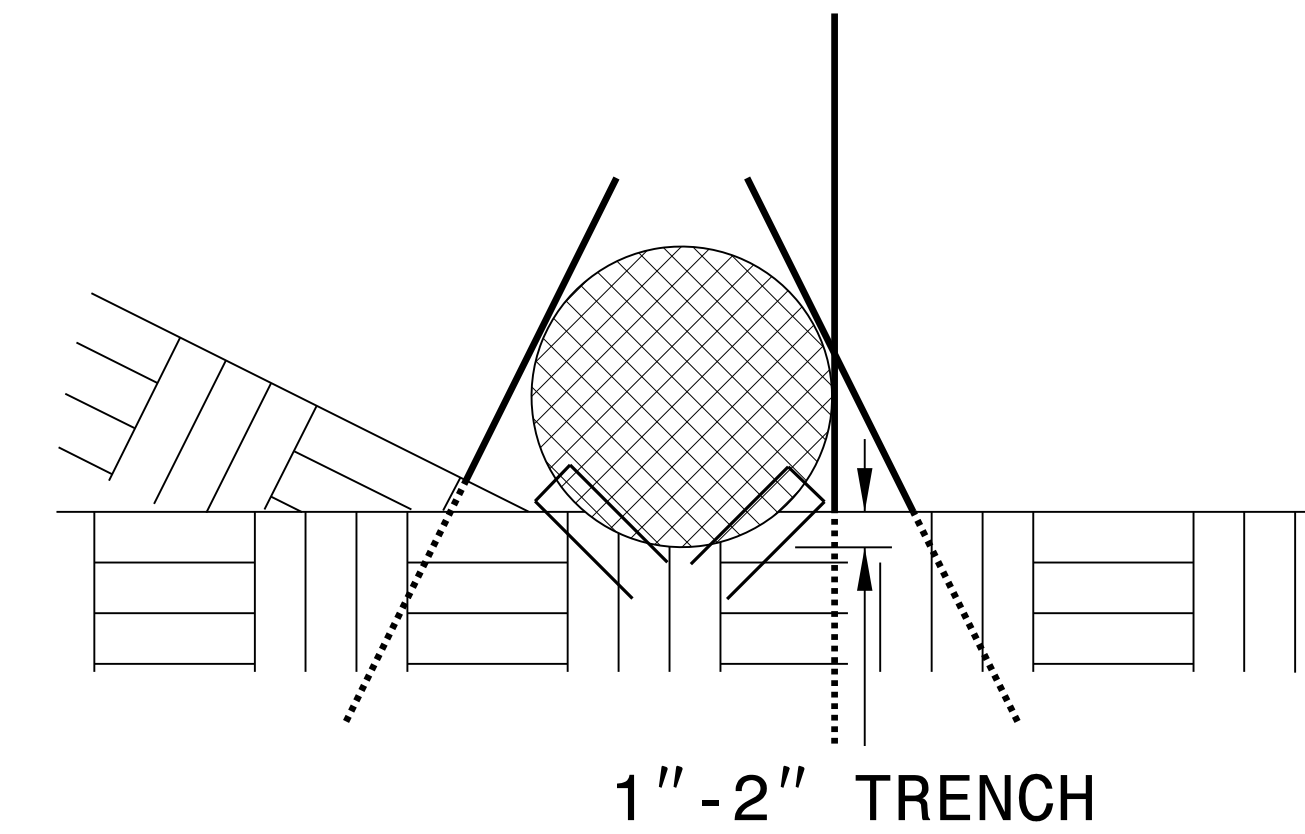


ISOMETRIC VIEW

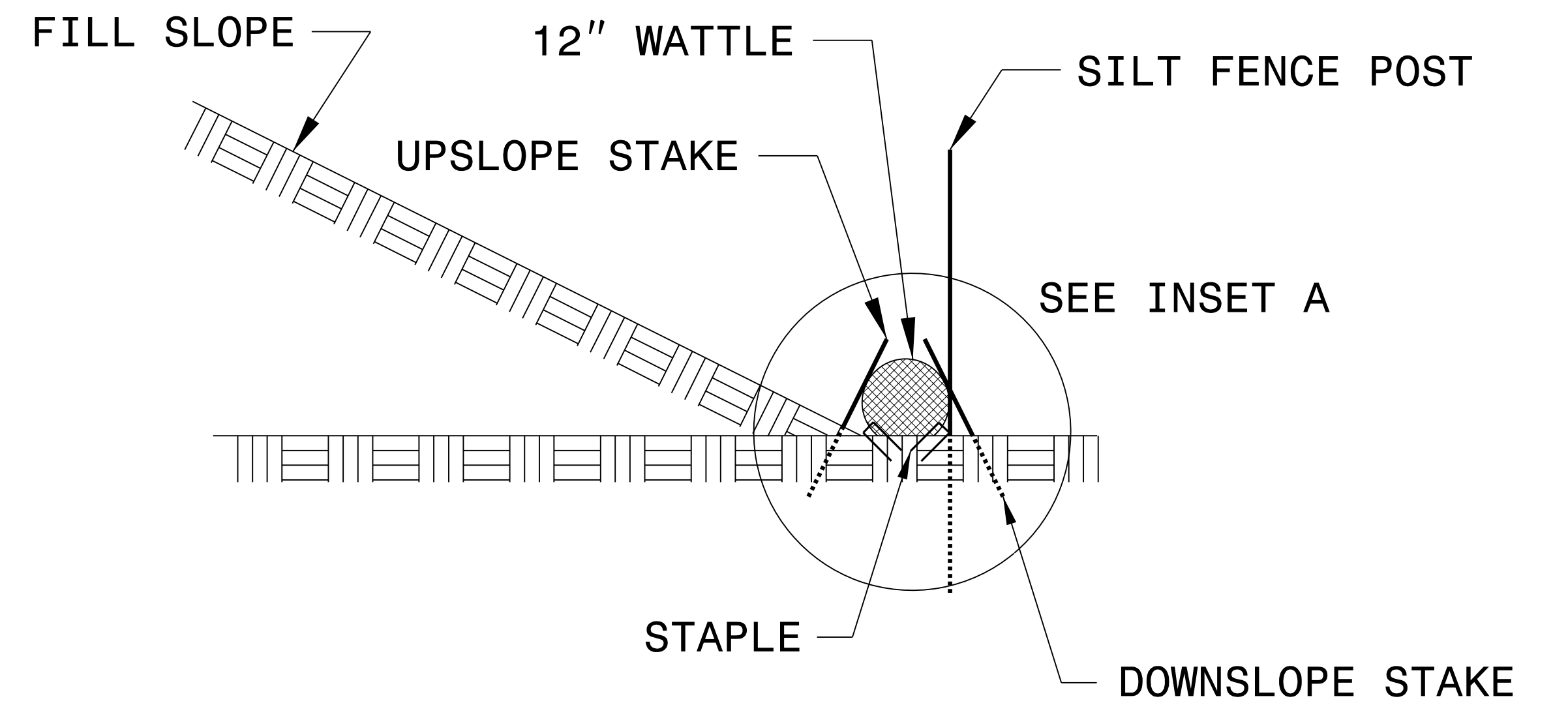
NOTES:

- USE MINIMUM 12 IN. DIAMETER EXCELSIOR 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 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.
- WATTLE INSTALLATION CAN BE ON OUTSIDE OF THE SILT FENCE AS DIRECTED.
- INSTALL TEMPORARY SILT FENCE IN ACCORDANCE WITH SECTION 1605 OF THE STANDARD SPECIFICATIONS.

INSET A



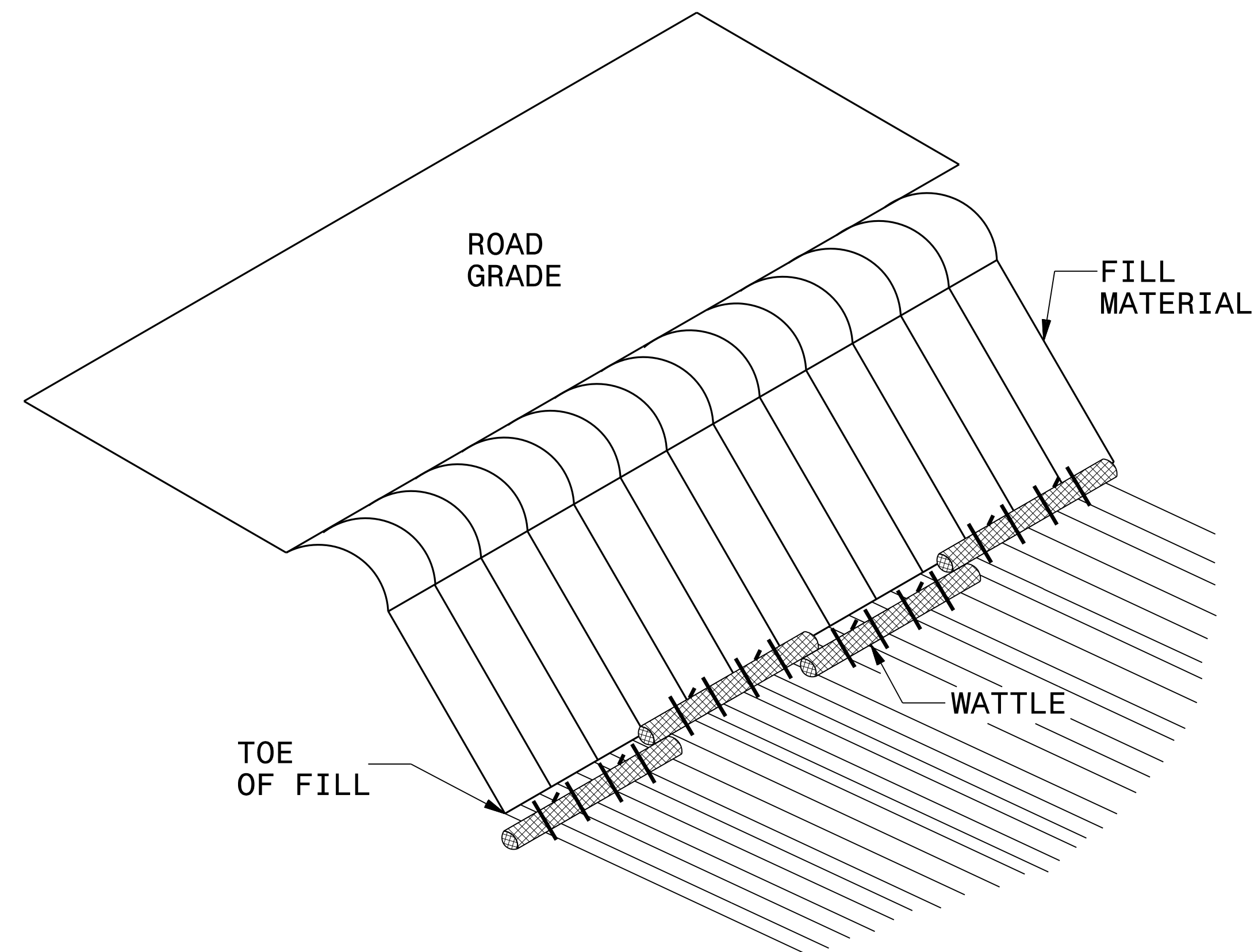
VIEW FROM SLOPE



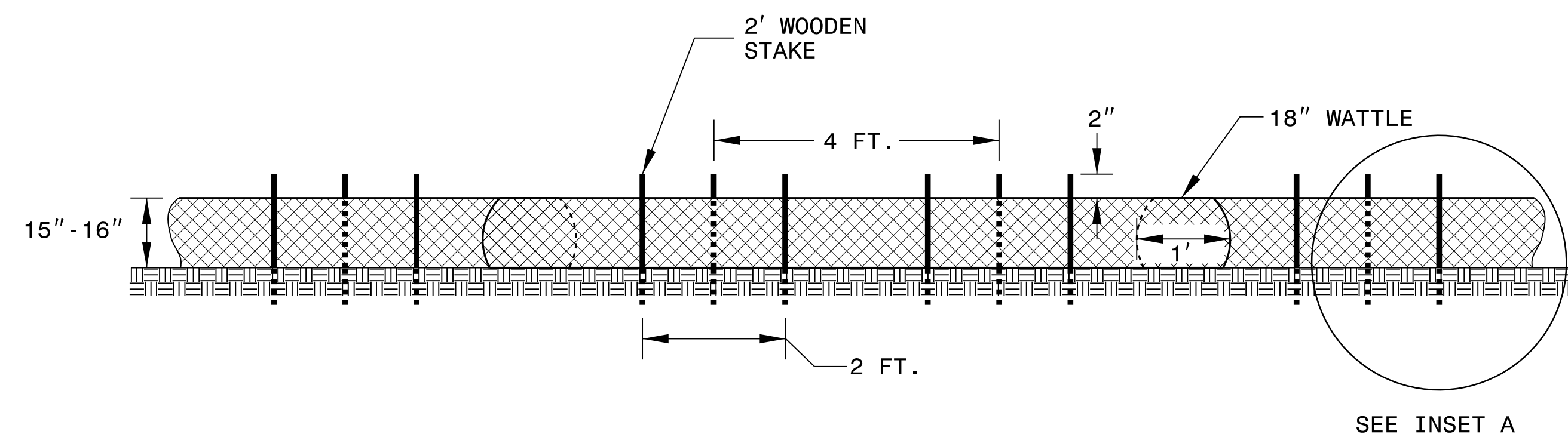
SIDE VIEW

PROJECT REFERENCE NO. <i>B-5619</i>	SHEET NO. <i>EC-2A</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER WATTLE BARRIER DETAIL



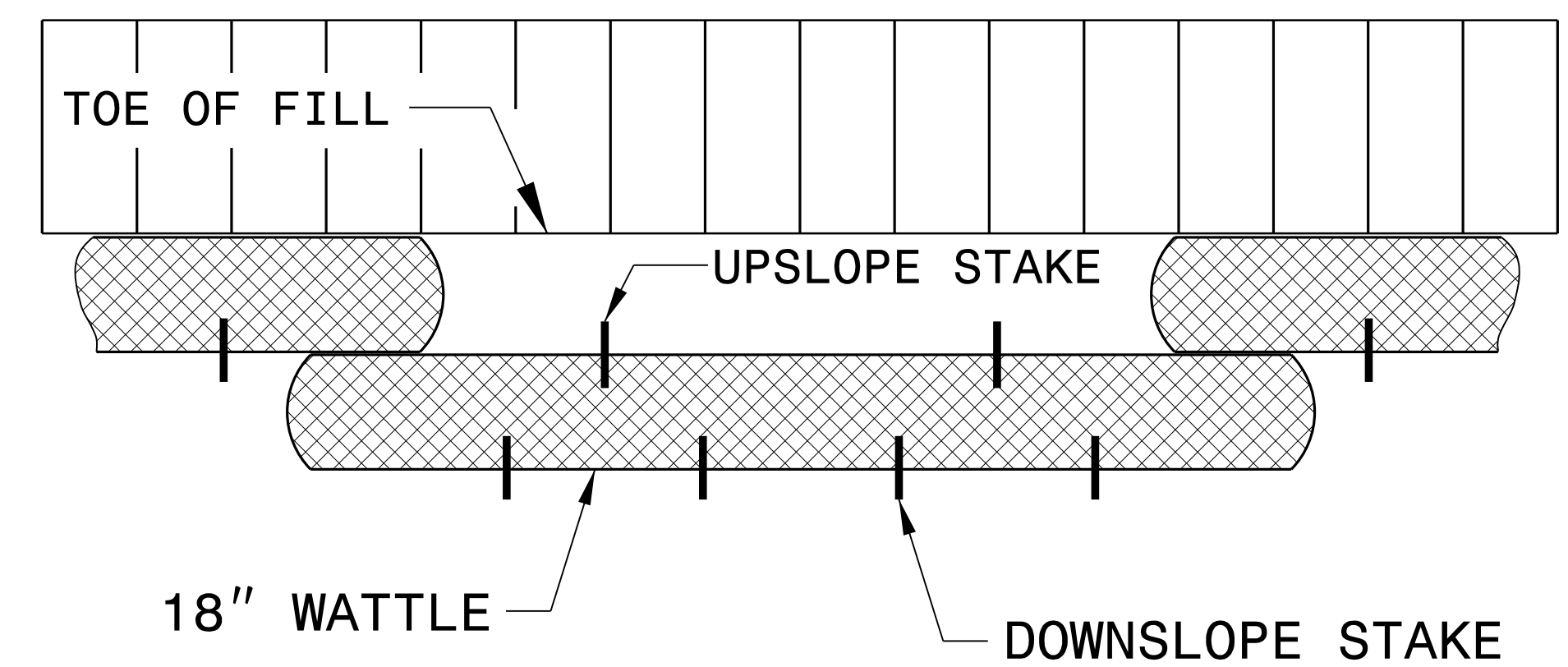
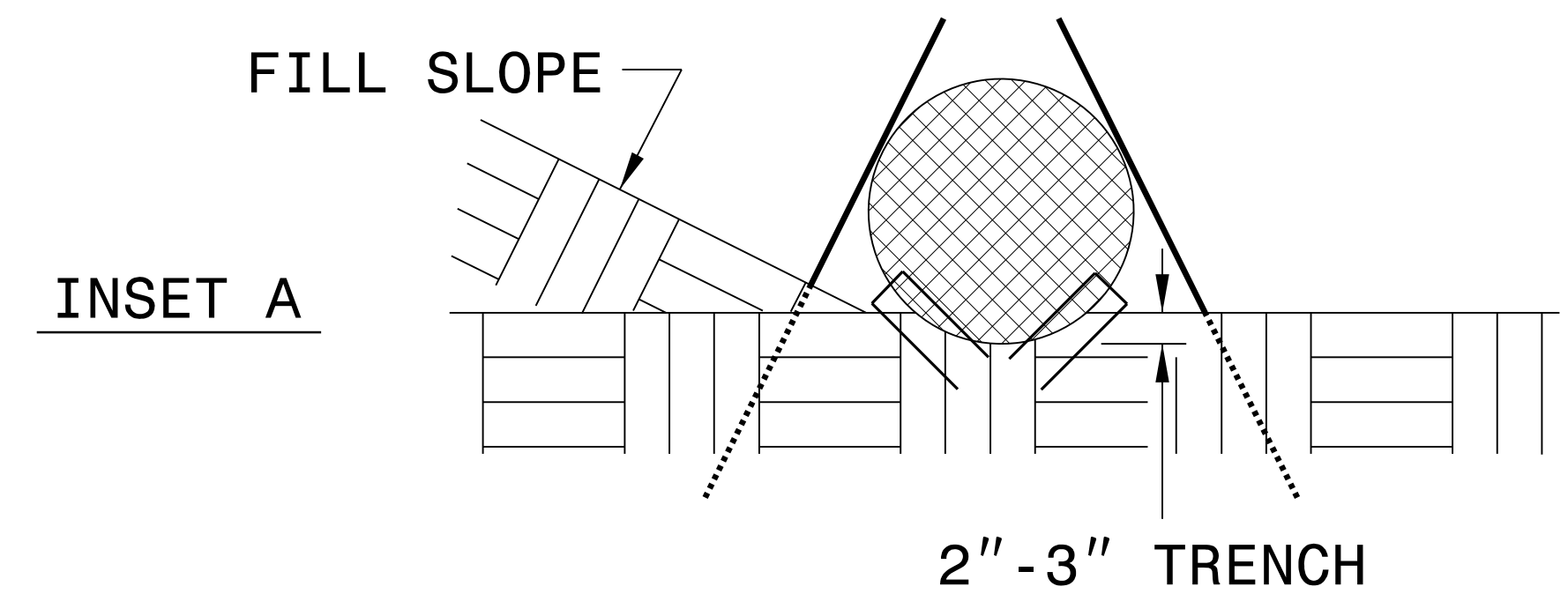
ISOMETRIC VIEW



FRONT VIEW

NOTES:

- USE MINIMUM 18 IN. NOMINAL DIAMETER COIR FIBER (COCONUT) WATTLE AND LENGTH OF 10 FT.
- EXCAVATE A 2 TO 3 INCH TRENCH FOR WATTLE TO BE PLACED.
- DO NOT PLACE WATTLES 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 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.
- FOR BREAKS ALONG LARGE SLOPES, USE MAXIMUM SPACING OF 25 FT.



TOP VIEW

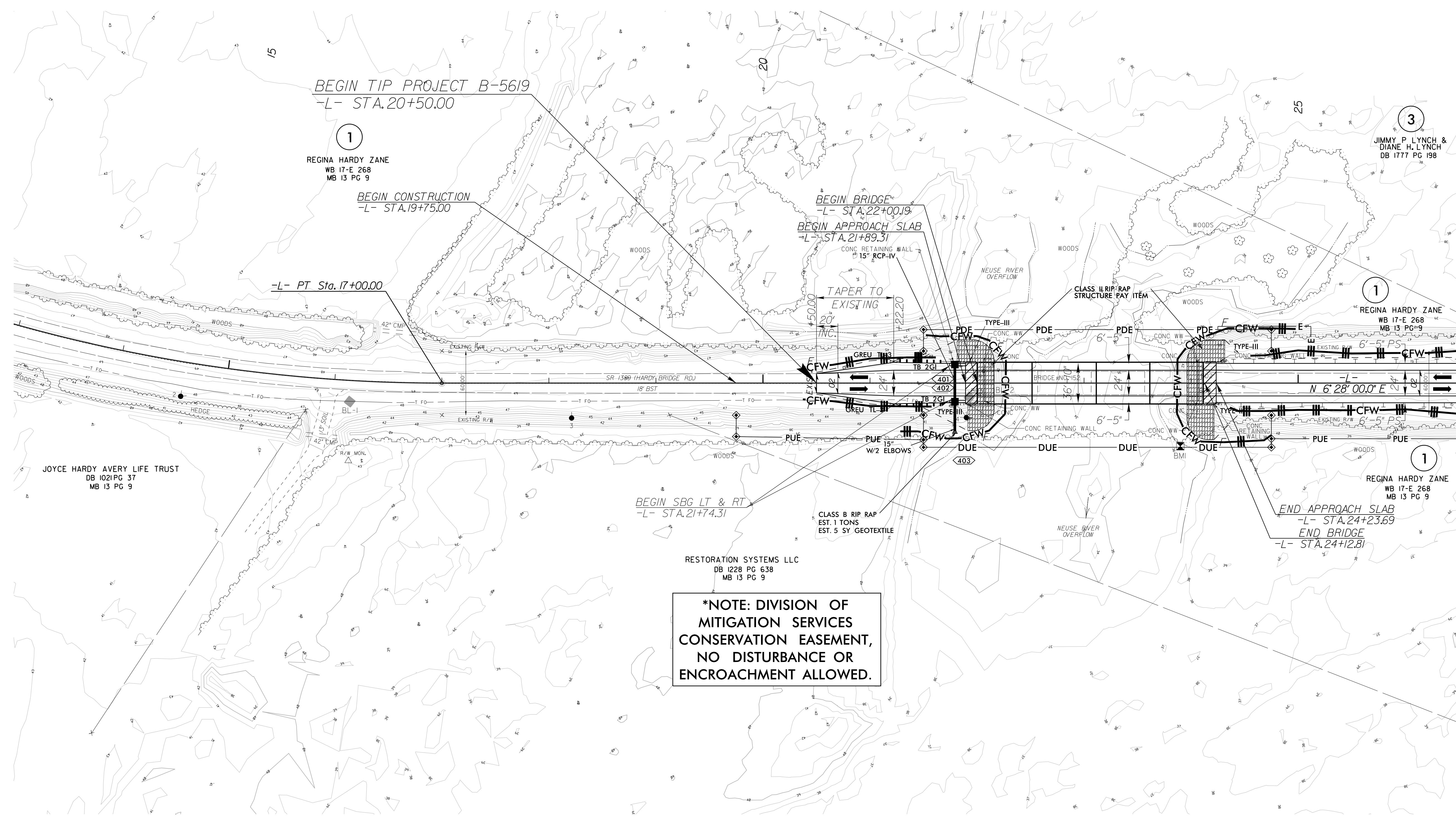
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
<i>B-5619</i>	<i>EC-3</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.

NAD 83/NA 2011



BEGIN TIP PROJECT B-5619
-L- STA.20+50.00

1
REGINA HARDY ZANE
WB 17-E 268
MB 13 PG 9

BEGIN CONSTRUCTION
-L- STA.19+75.00

-L- PT Sta.17+00.00

BEGIN BRIDGE
-L- STA.22+00.19
BEGIN APPROACH SLAB
-L- STA.21+89.31

3
JIMMY P. LYNCH &
DIANE H. LYNCH
DB 1777 PG 198

1
REGINA HARDY ZANE
WB 17-E 268
MB 13 PG 9

1
REGINA HARDY ZANE
WB 17-E 268
MB 13 PG 9

BEGIN S/BG LT & RT
-L- STA.21+74.31

END APPROACH SLAB
-L- STA.24+23.69
END BRIDGE
-L- STA.24+12.81

RESTORATION SYSTEMS LLC
DB 1228 PG 638
MB 13 PG 9

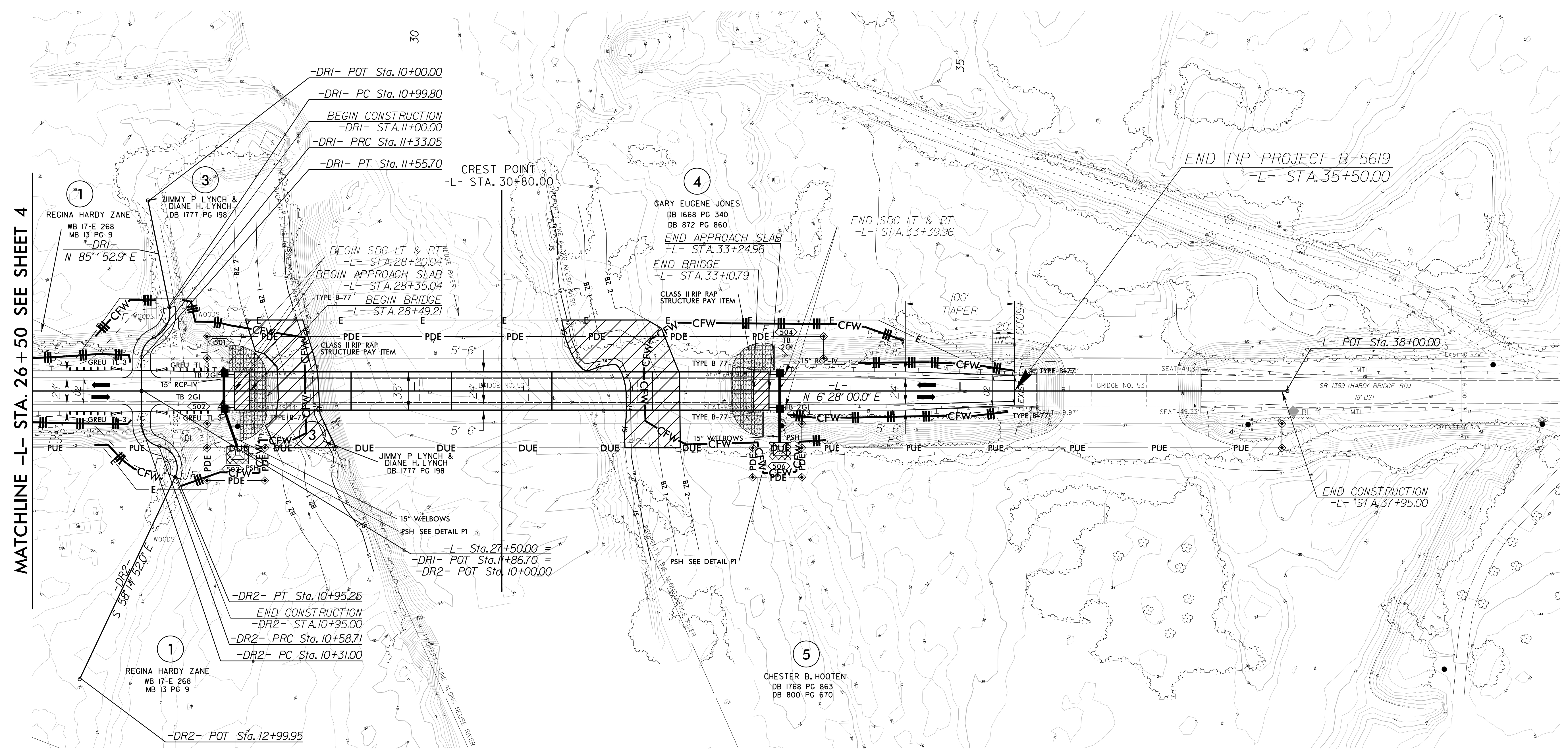
***NOTE: DIVISION OF
MITIGATION SERVICES
CONSERVATION EASEMENT,
NO DISTURBANCE OR
ENCROACHMENT ALLOWED.**

MATCHLINE -L- STA. 26 + 50 SEE SHEET 5

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

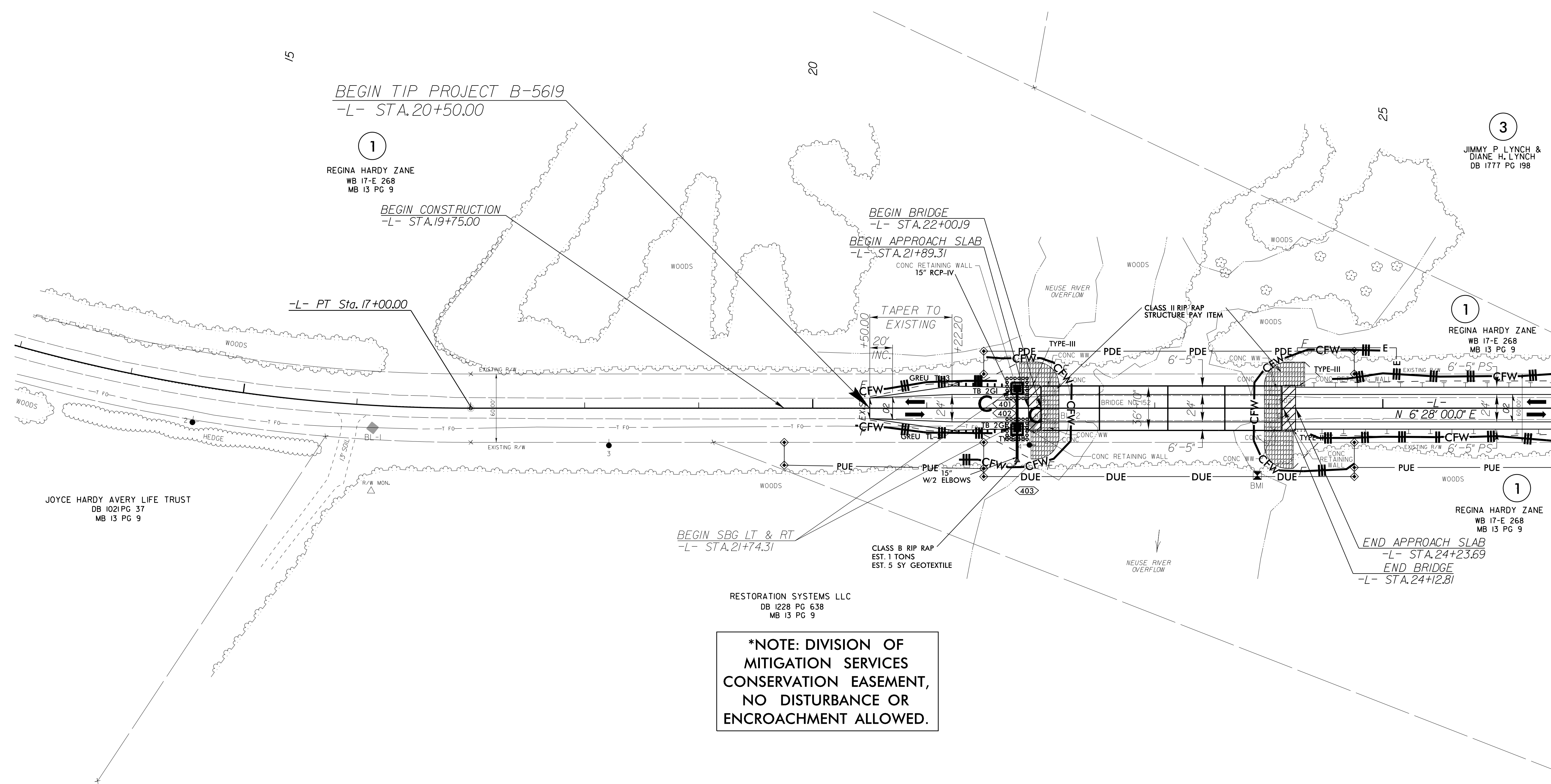
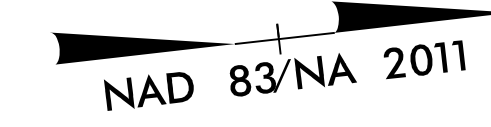
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

NAD 83/NA 2011



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



BEGIN TIP PROJECT B-5619
-L- STA. 20+50.00

1
REGINA HARDY ZANE
WB 17-E 268
MB 13 PG 9

BEGIN CONSTRUCTION
-L- STA. 19+75.00

-L- PT Sta. 17+00.00

BEGIN BRIDGE
-L- STA. 22+00.19
BEGIN APPROACH SLAB
-L- STA. 21+89.31

3
JIMMY P. LYNCH &
DIANE H. LYNCH
DB 1777 PG 198

1
REGINA HARDY ZANE
WB 17-E 268
MB 13 PG 9

JOYCE HARDY AVERY LIFE TRUST
DB 1021 PG 37
MB 13 PG 9

BEGIN SBG LT & RT
-L- STA. 21+74.31

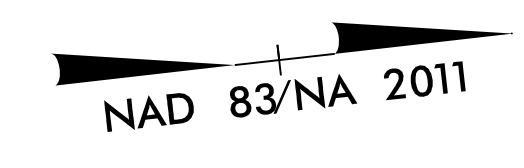
CLASS B RIP RAP
EST. 1 TONS
EST. 5 SY GEOTEXTILE

END APPROACH SLAB
-L- STA. 24+23.69
END BRIDGE
-L- STA. 24+12.81

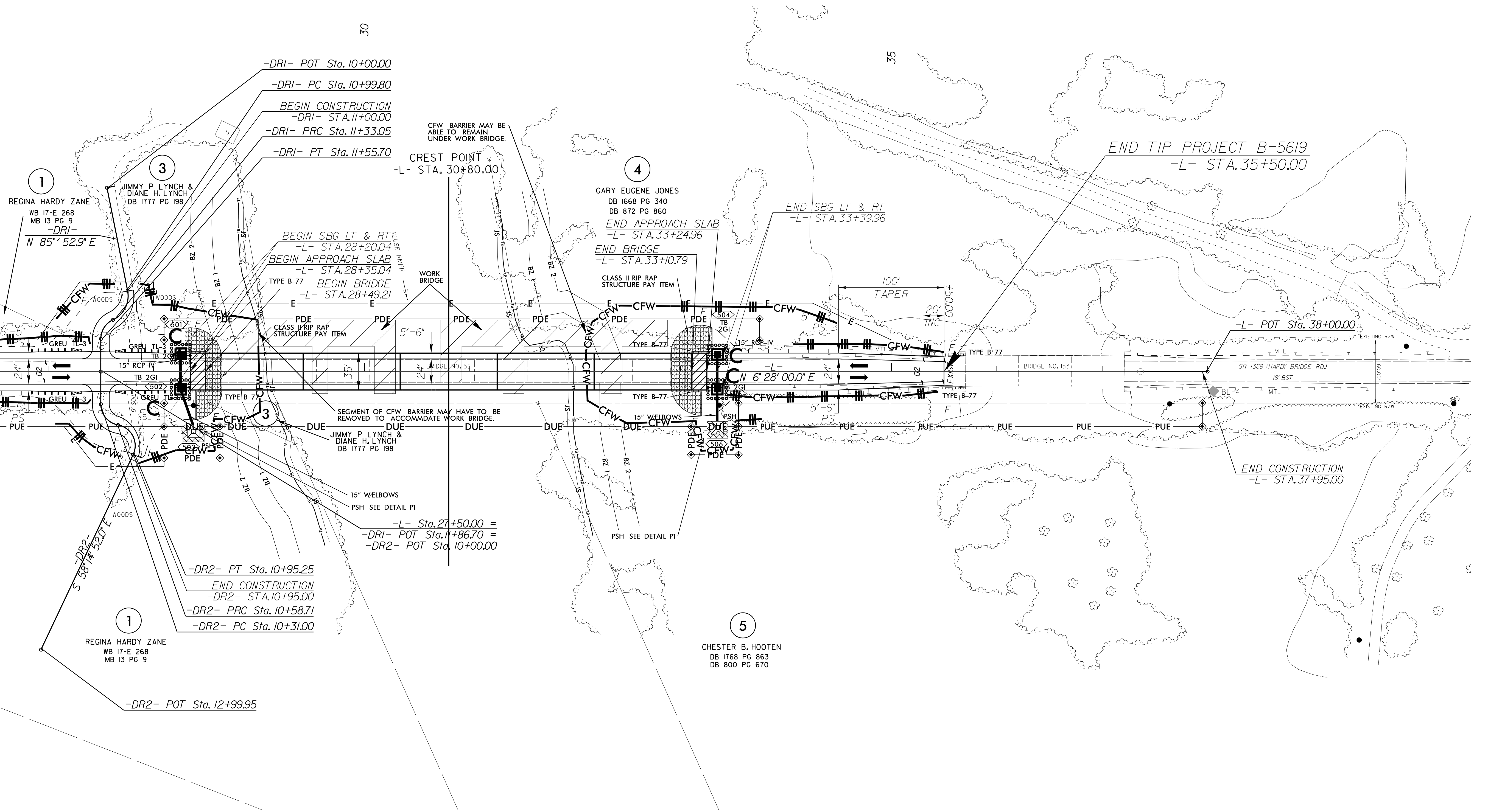
RESTORATION SYSTEMS LLC
DB 1228 PG 638
MB 13 PG 9

***NOTE: DIVISION OF
MITIGATION SERVICES
CONSERVATION EASEMENT,
NO DISTURBANCE OR
ENCROACHMENT ALLOWED.**

MATCHLINE -L- STA. 26 + 50 SEE SHEET 5



MATCHLINE -L- STA. 26 + 50 SEE SHEET 4



1
REGINA HARDY ZANE
WB 17-E 268
MB 13 PG 9
-DRI-
N 85° 52.9' E

3
JIMMY P. LYNCH &
DIANE H. LYNCH
DB 1777 PG 198

4
GARY EUGENE JONES
DB 1668 PG 340
DB 872 PG 860

5
CHESTER B. HOOTEN
DB 1768 PG 863
DB 800 PG 670

-DRI- POT Sta. 10+00.00
-DRI- PC Sta. 10+99.80
BEGIN CONSTRUCTION
-DRI- STA. 11+00.00
-DRI- PRC Sta. 11+33.05
-DRI- PT Sta. 11+55.70

BEGIN SBG LT & RT
-L- STA. 28+20.04
BEGIN APPROACH SLAB
-L- STA. 28+35.04
TYPE B-77 BEGIN BRIDGE
-L- STA. 28+49.21

END APPROACH SLAB
-L- STA. 33+24.96
END BRIDGE
-L- STA. 33+10.79

END TIP PROJECT B-5619
-L- STA. 35+50.00

-L- POT Sta. 38+00.00

END CONSTRUCTION
-L- STA. 37+95.00

-DR2- PT Sta. 10+95.25
END CONSTRUCTION
-DR2- STA. 10+95.00
-DR2- PRC Sta. 10+58.71
-DR2- PC Sta. 10+31.00

-DR2- POT Sta. 12+99.95

-L- Sta. 27+50.00 =
-DRI- POT Sta. 11+86.70 =
-DR2- POT Sta. 10+00.00

CREST POINT
-L- STA. 30+80.00

END SBG LT & RT
-L- STA. 33+39.96