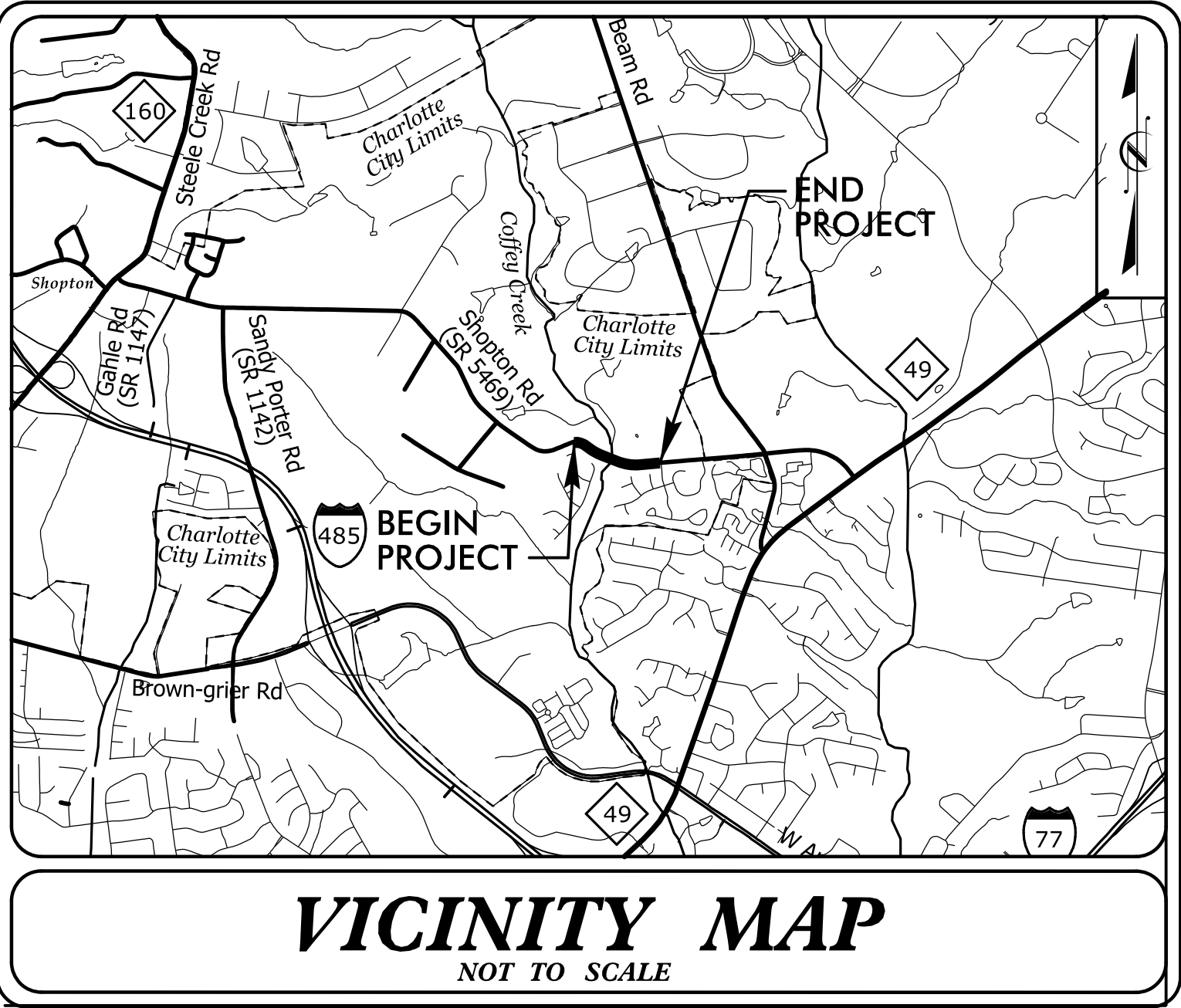


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BP10-R013	EC-1	13
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
BP10-R013.1		P.E.	
BP10-R013.2		R/W & UTILITY	
BP10-R013.3		CONSTRUCTION	

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

PROJECT TIP: BP10-R013



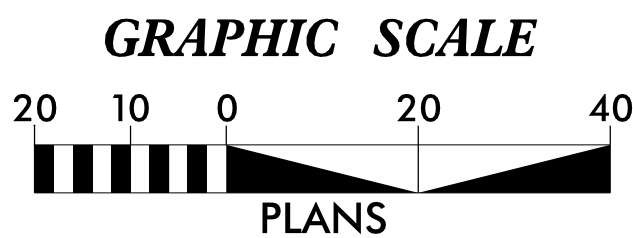
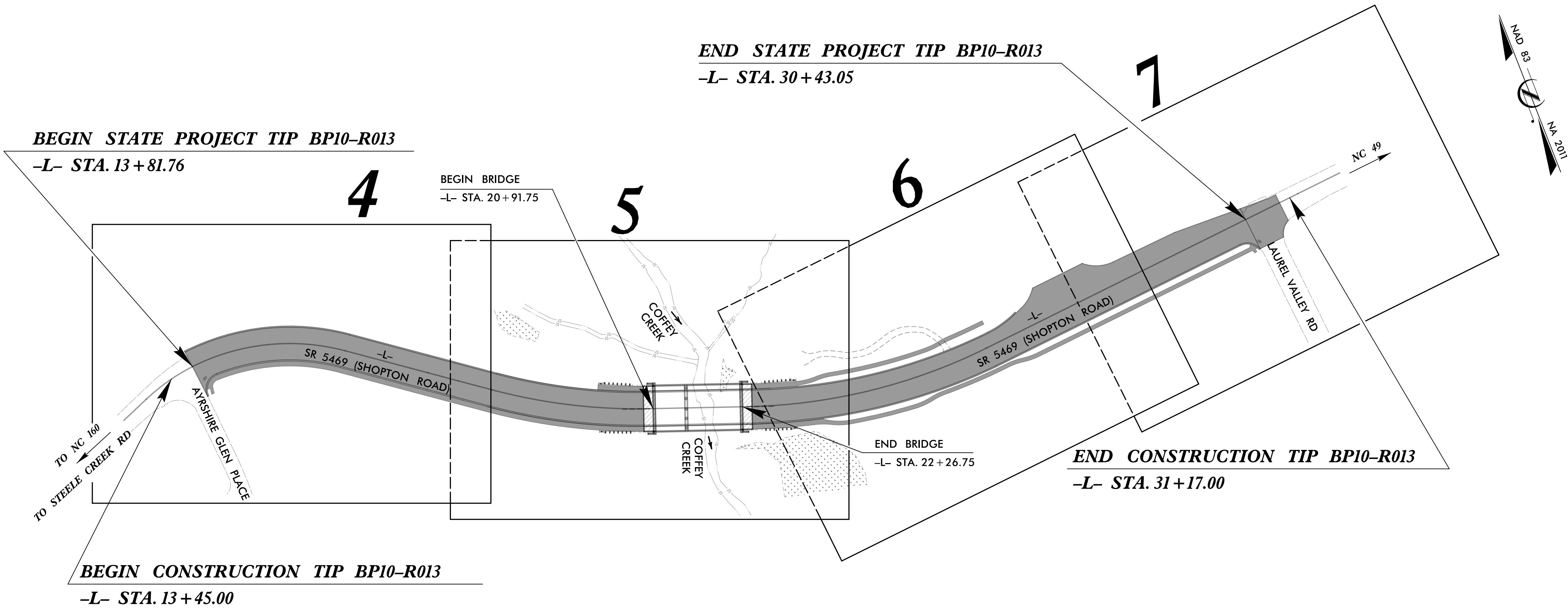
VICINITY MAP
NOT TO SCALE

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

MECKLENBURG COUNTY

LOCATION: BRIDGE #590165 COFFEY CREEK ON SR 5469 (SHOPTON RD)
TYPE OF WORK: GRADING, DRAINAGE, PAVING, & STRUCTURE



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



Prepared In the Office of:
STV ENGINEERS, INC.
2151 HAWKINS STREET, SUITE 1400
CHARLOTTE, NC 28203

Designed by:
HALEY SMITH, EIT 4688
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

EROSION & SEDIMENT CONTROL LEGEND

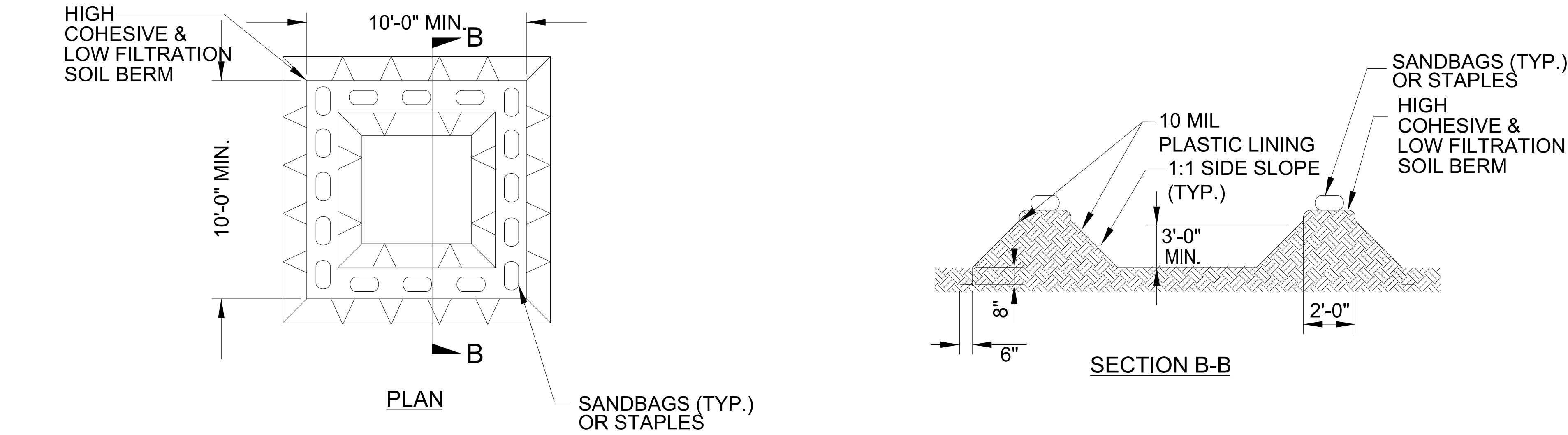
Std. #	Description	Symbol	Std. #	Description	Symbol
1605.01	Temporary Silt Fence		1633.01	Temporary Rock Silt Check Type A	
1606.01	Special Sediment Control Fence		1633.02	Temporary Rock Silt Check Type B	
1622.01	Temporary Berms and Slope Drains		1633.03	Temporary Rock Silt Check Type A with Excelsior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

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



- 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.

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

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
BPI0-R013	EC-3
 STV Engineers, Inc. 2151 Hawkins Street, Suite 1400 Charlotte, NC 28203 NC License Number F-0991	

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR SLOPES – EROSION CONTROL

[illegible][illegible]

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

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

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5/27/2025
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CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

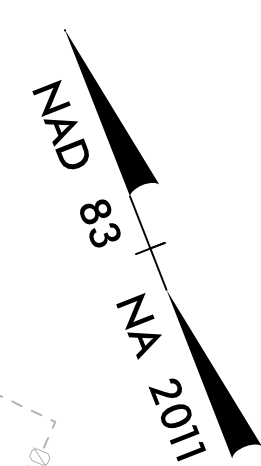
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

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

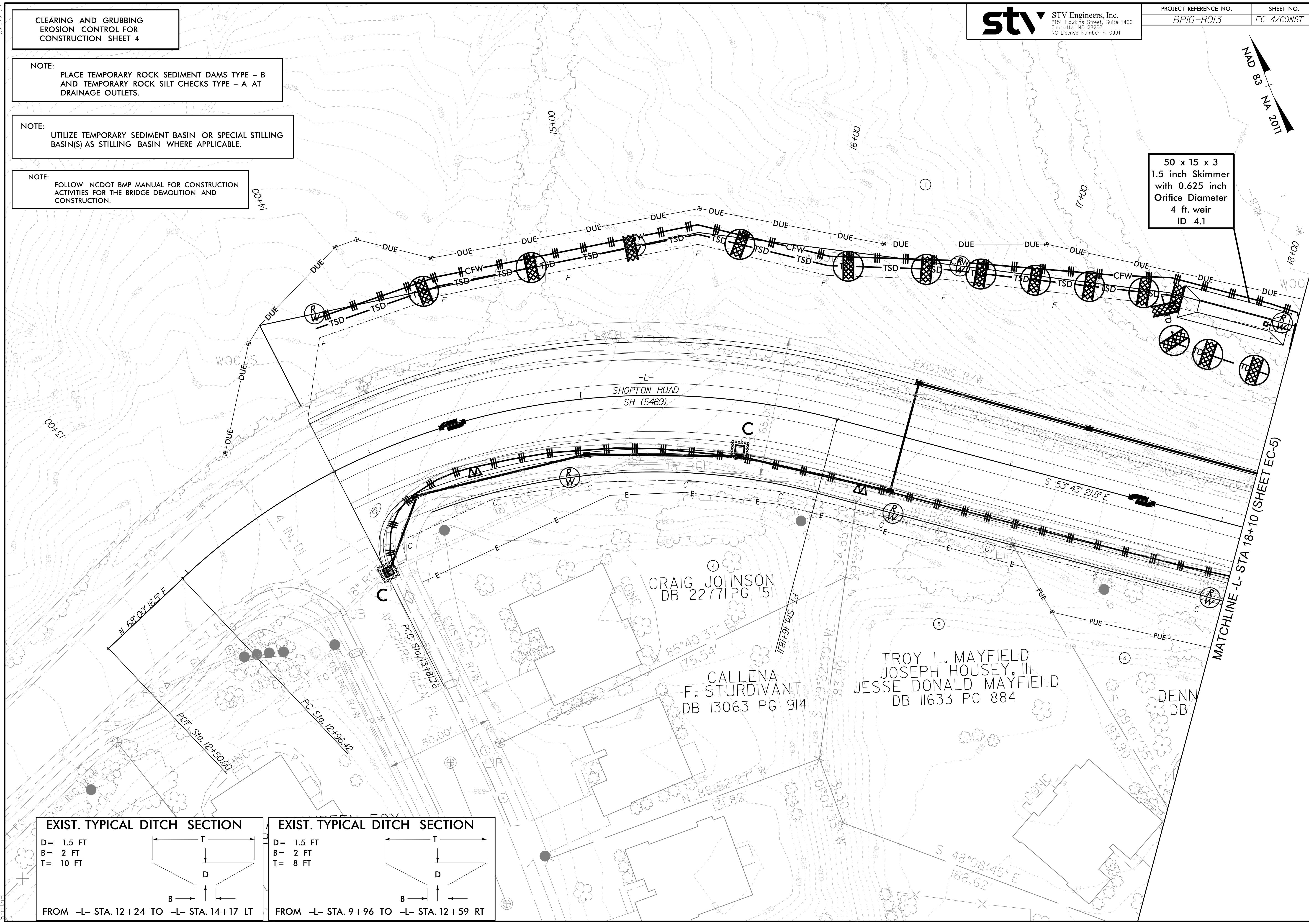
NOTE:
FOLLOW NCDOT BMP MANUAL FOR CONSTRUCTION
ACTIVITIES FOR THE BRIDGE DEMOLITION AND
CONSTRUCTION.

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Charlotte, NC 28203
NC License Number F-0991

PROJECT REFERENCE NO.	SHEET NO.
BP10-R013	EC-4/CONST 4



50 x 15 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
4 ft. weir
ID 4.1



EXIST. TYPICAL DITCH SECTION

D= 1.5 FT
B= 2 FT
T= 10 FT



FROM -L- STA. 12+24 TO -L- STA. 14+17 LT

EXIST. TYPICAL DITCH SECTION

D= 1.5 FT
B= 2 FT
T= 8 FT



FROM -L- STA. 9+96 TO -L- STA. 12+59 RT

8/17/99

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

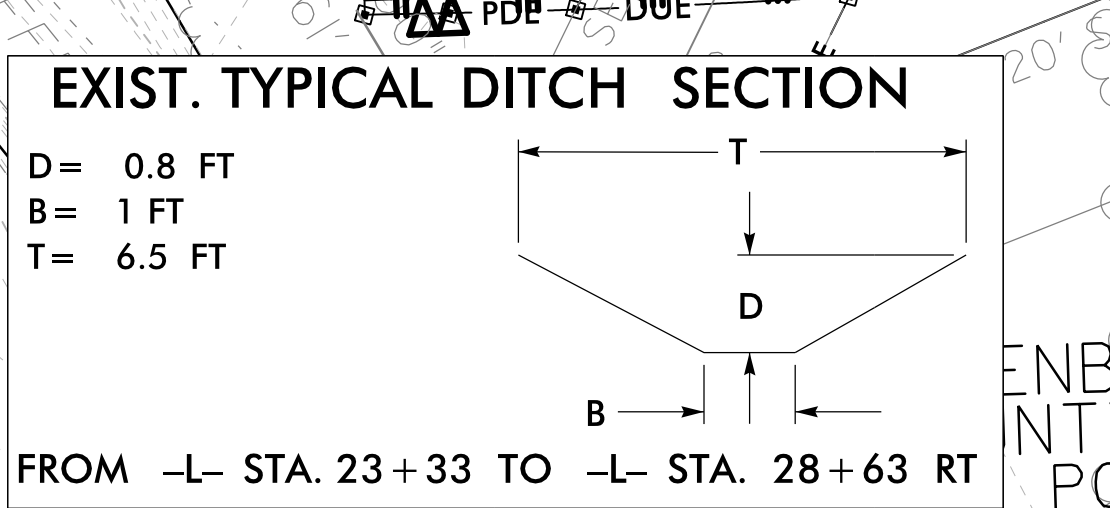
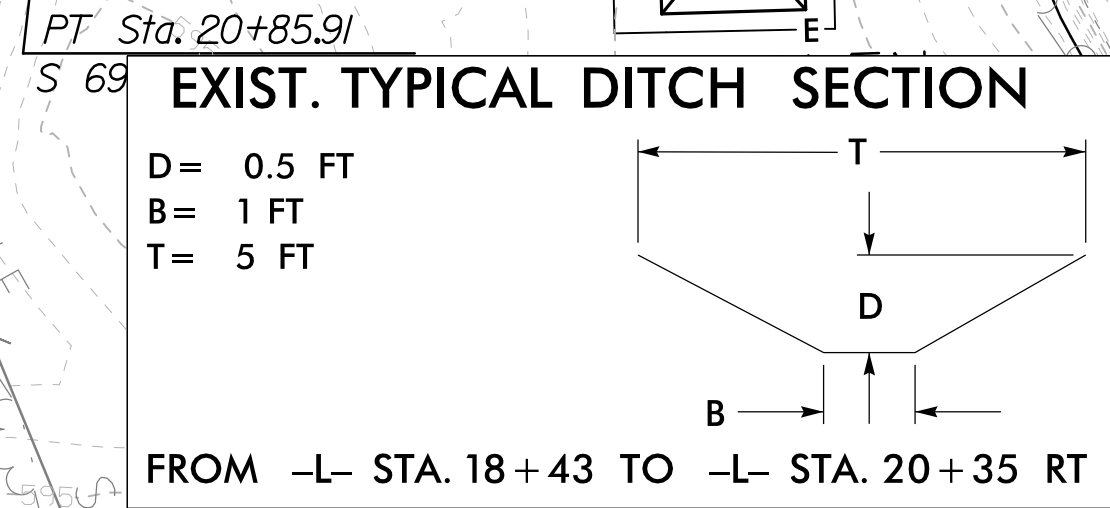
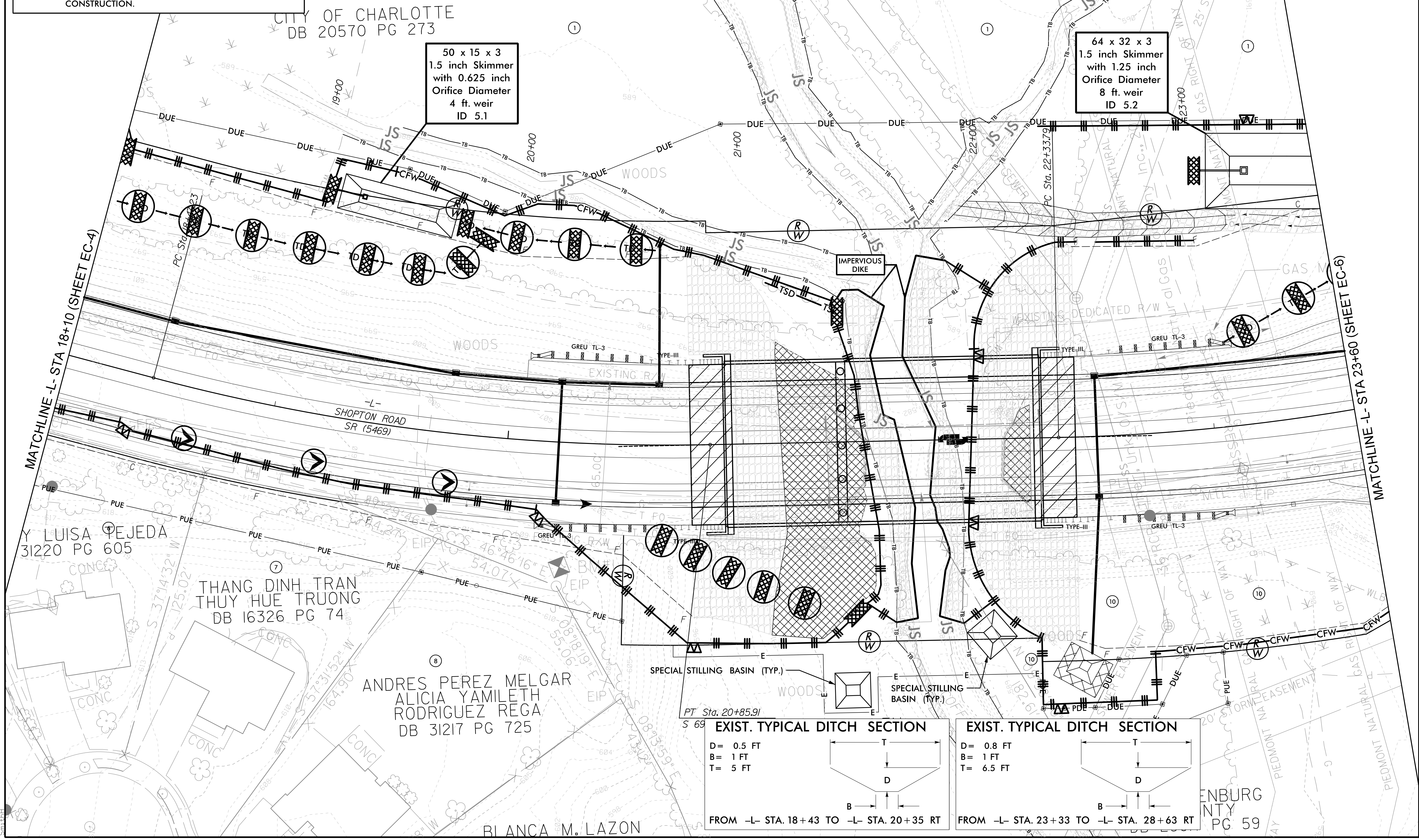
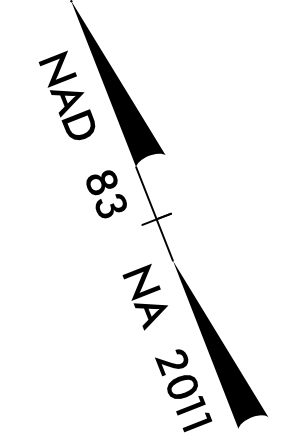
NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING
BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

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

NOTE:
FOLLOW NCDOT BMP MANUAL FOR CONSTRUCTION
ACTIVITIES FOR THE BRIDGE DEMOLITION AND
CONSTRUCTION.

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PROJECT REFERENCE NO.	SHEET NO.
BP10-R013	EC-5/CONST 5



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8/17/99

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.

NOTE: UTILIZE FABRIC INSERT INLET PROTECTIONS IN LIEU
OF ROCK INLET SEDIMENT TRAP TYPE C WHERE WATER
MAY POND ON THE ROADWAY IN AREAS WHERE LIVE
TRAFFIC IS PRESENT.

NOTE:
FOLLOW NCDOT BMP MANUAL FOR CONSTRUCTION
ACTIVITIES FOR THE BRIDGE DEMOLITION AND
CONSTRUCTION.

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

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Charlotte, NC 28203
NC License Number F-0991

PROJECT REFERENCE NO.	SHEET NO.
BP10-R013	EC-6/CONST 6

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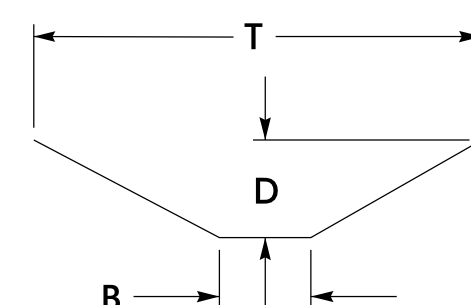
MATCHLINE -L- STA 23+60 (SHEET EC-5)

MATCHLINE -L- STA 28+10 (SHEET EC-7)

NOTE:
EXISTING DRIVEWAY AND PIPE AT APPROX
-L- STA. 25+50 LT WILL BE REMOVED BY
OTHERS PRIOR TO THIS PROJECT.

EXIST. TYPICAL DITCH SECTION

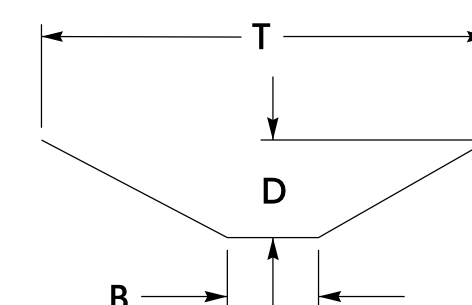
D= 0.8 FT
B= 1 FT
T= 6.5 FT



FROM -L- STA. 23+33 TO -L- STA. 28+63 RT

EXIST. TYPICAL DITCH SECTION

D= 1 FT
B= 1 FT
T= 8 FT



FROM -L- STA. 24+12 TO -L- STA. 25+50 LT

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

EXIST. TYPICAL DITCH SECTION

D = 1 FT
B = 1 FT
T = 8 FT

FROM -L- STA. 24+12 TO -L- STA. 25+50 LT

EXIST. TYPICAL DITCH SECTION

D = 0.8 FT
B = 1 FT
T = 6.5 FT

FROM -L- STA. 23+23 TO -L- STA. 28+63 RT

FROM -L- STA. 24+12 TO -L- STA. 25+50 LT

FROM -L- STA. 23+23 TO -L- STA. 28+63 RT

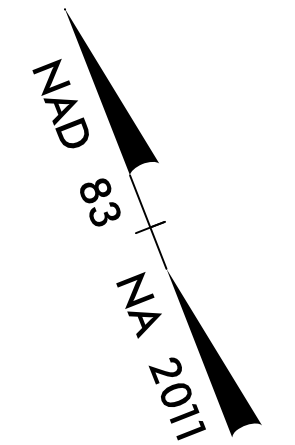
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FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

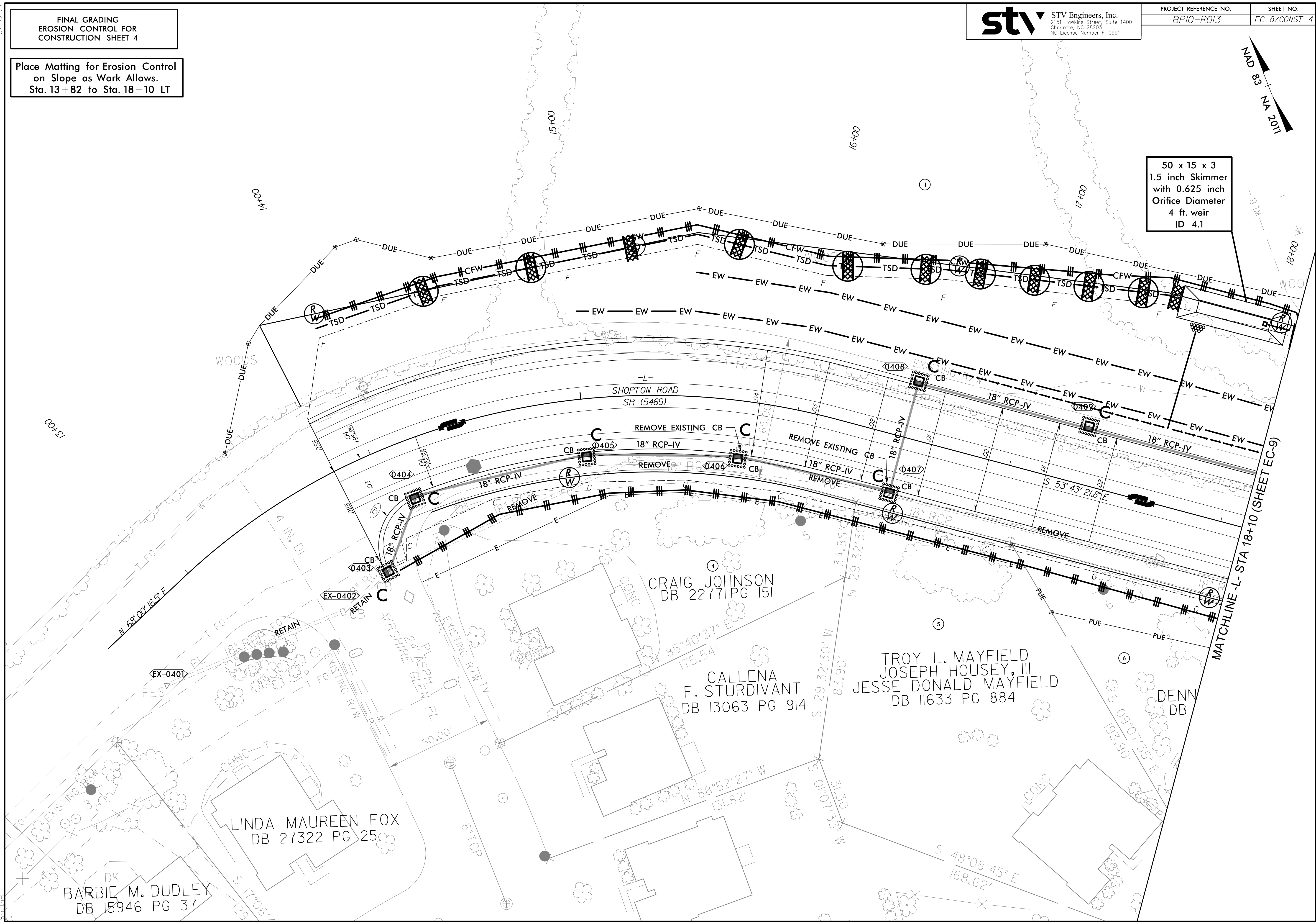
Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 13+82 to Sta. 18+10 LT

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Charlotte, NC 28203
NC License Number F-0991

PROJECT REFERENCE NO.	SHEET NO.
BP10-R013	EC-8/CONST 4



50 x 15 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
4 ft. weir
ID 4.1



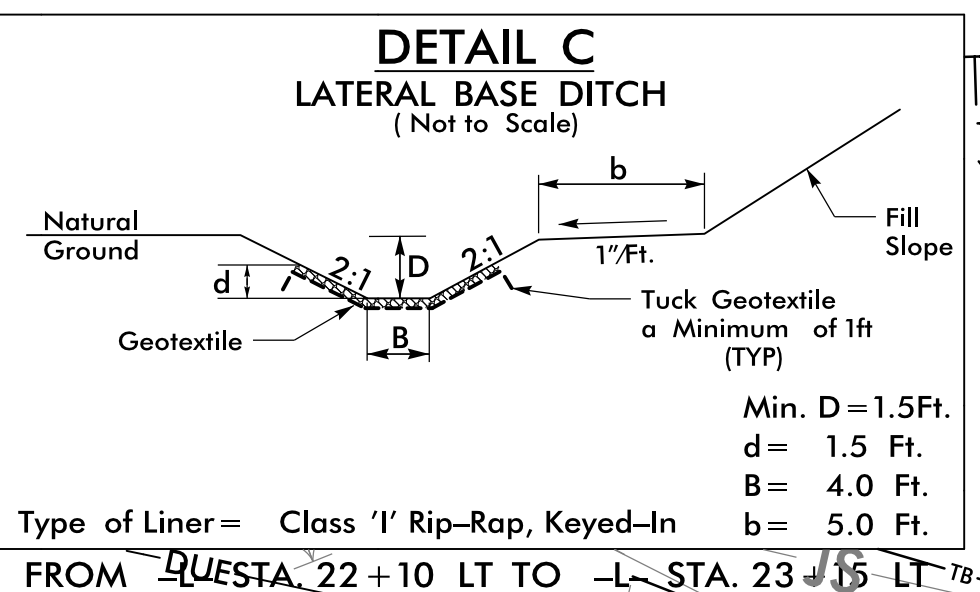
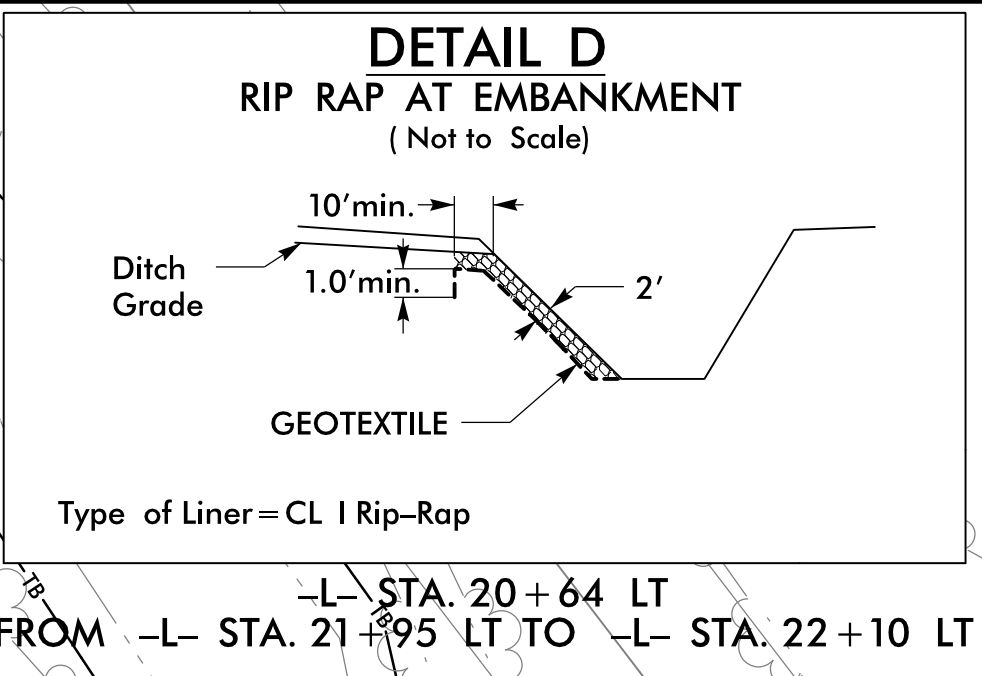
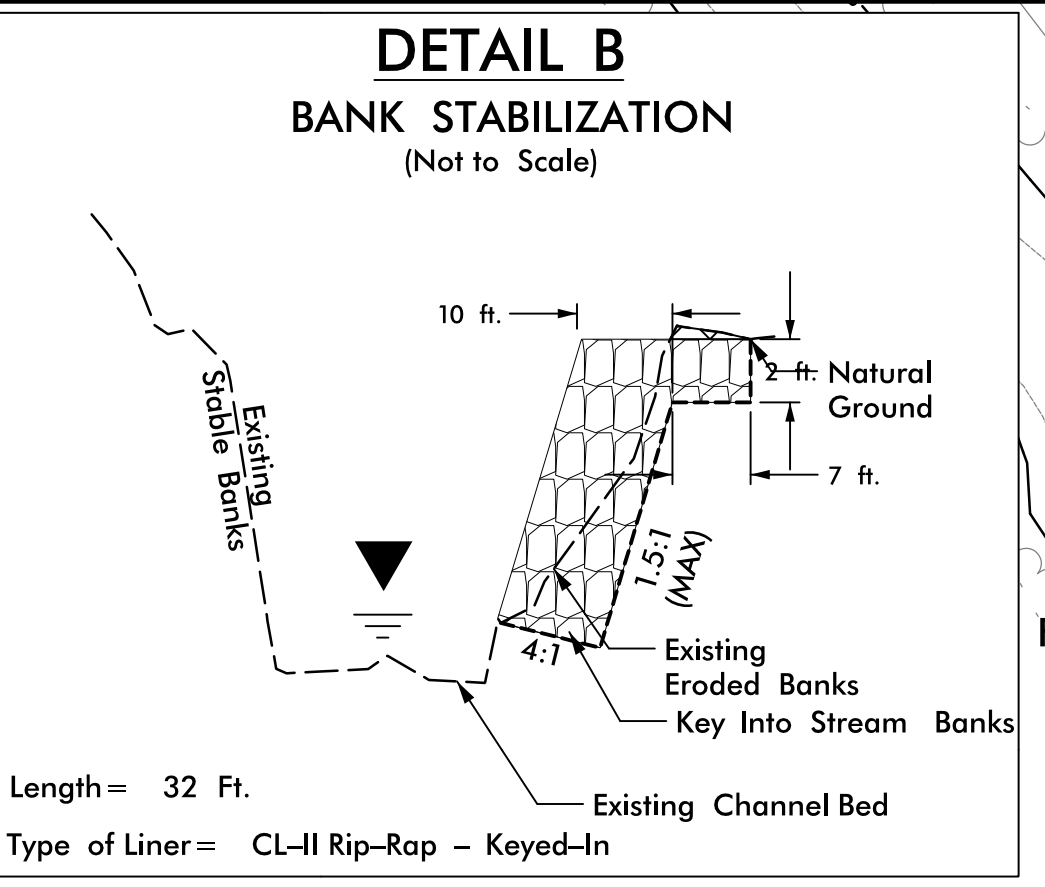
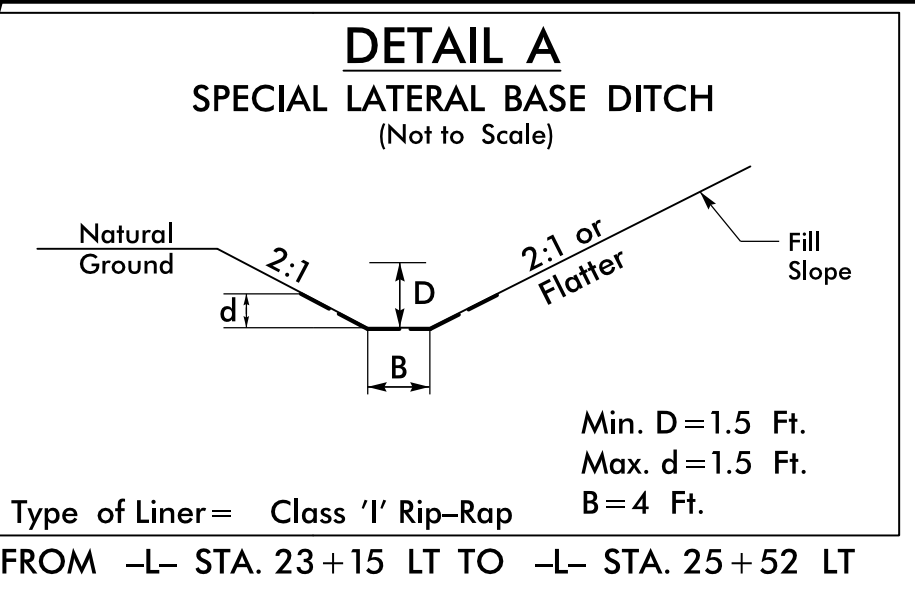
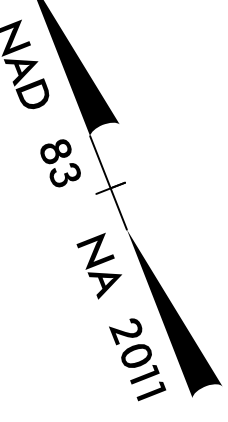
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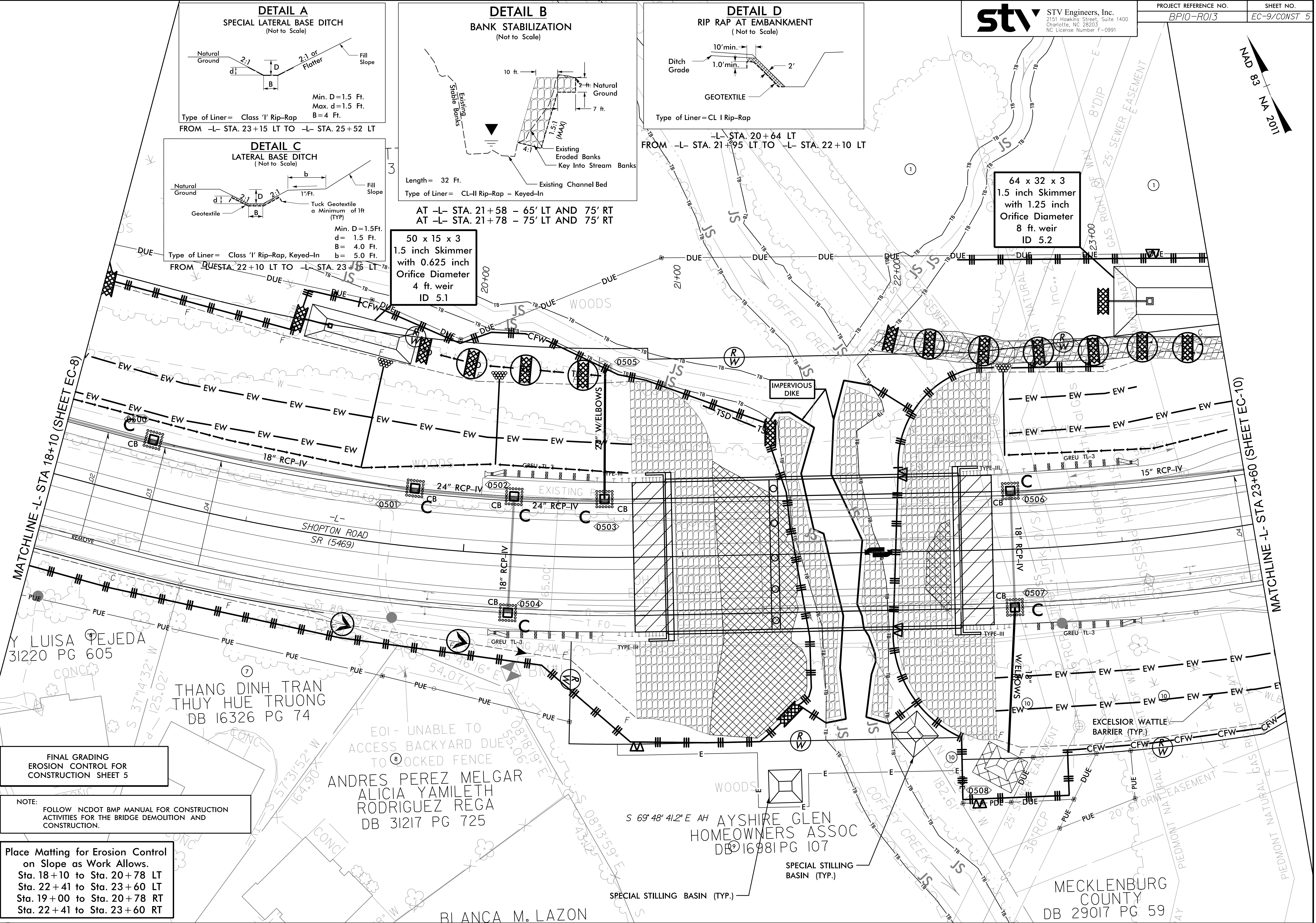
stv STV Engineers, Inc.
2151 Hawkins Street, Suite 1400
Charlotte, NC 28203
NC License Number F-0991

PROJECT REFERENCE NO.	SHEET NO.
BP10-R013	EC-9/CONST 5



50 x 15 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
4 ft. weir
ID 5.1

64 x 32 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
8 ft. weir
ID 5.2



FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

NOTE:
FOLLOW NCDOT BMP MANUAL FOR CONSTRUCTION
ACTIVITIES FOR THE BRIDGE DEMOLITION AND
CONSTRUCTION.

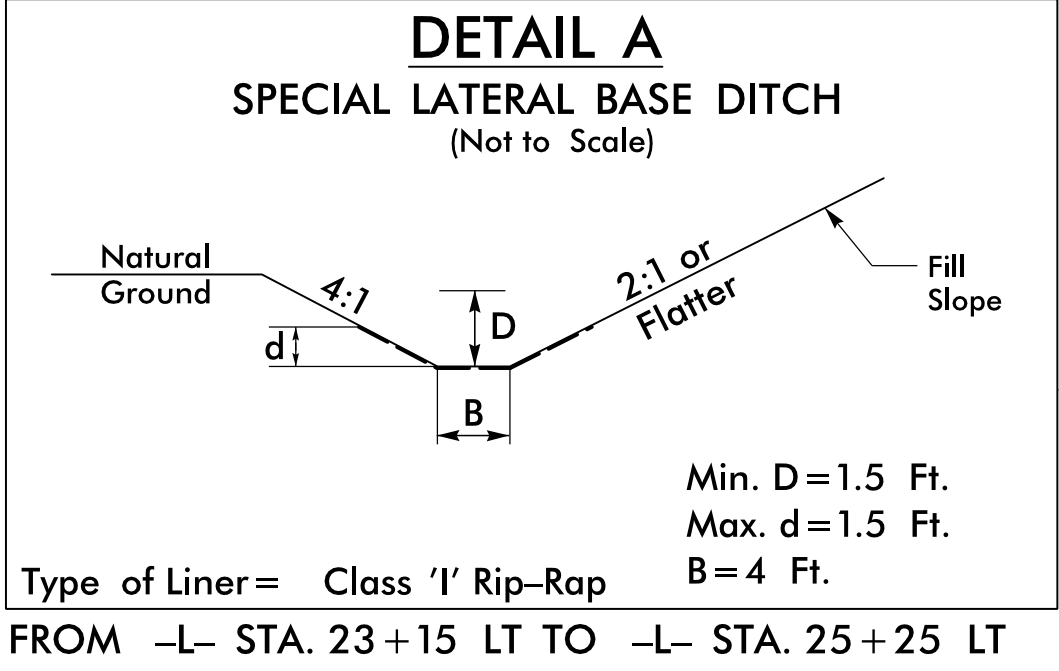
Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 18+10 to Sta. 20+78 LT
Sta. 22+41 to Sta. 23+60 LT
Sta. 19+00 to Sta. 20+78 RT
Sta. 22+41 to Sta. 23+60 RT

8/17/99

FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

NOTE: UTILIZE FABRIC INSERT INLET PROTECTIONS IN LIEU
OF ROCK INLET SEDIMENT TRAP TYPE C WHERE WATER
MAY POND ON THE ROADWAY IN AREAS WHERE LIVE
TRAFFIC IS PRESENT.

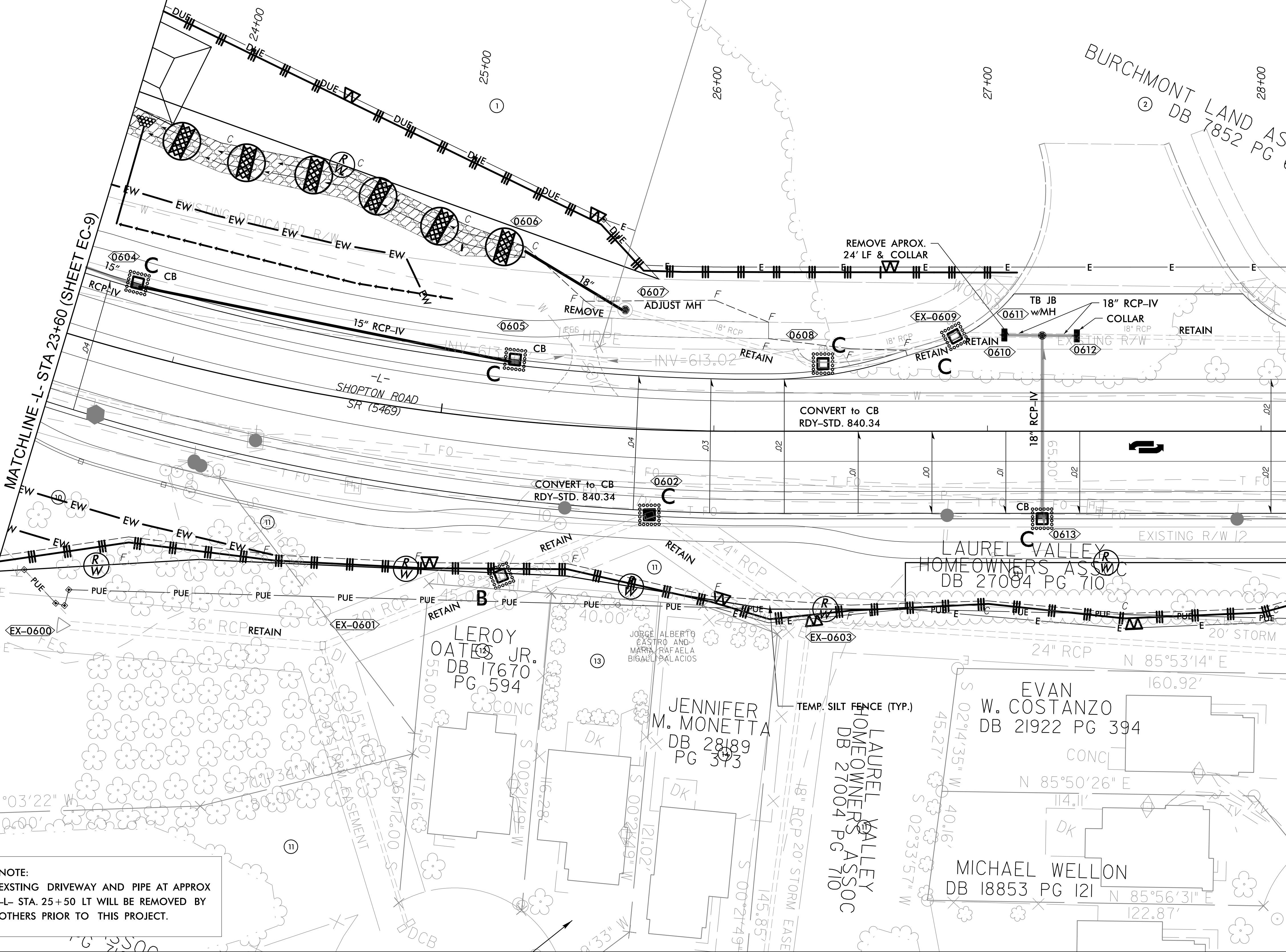
Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 23+60 to Sta. 25+50 LT
Sta. 23+60 to Sta. 26+50 RT



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NC License Number F-0991

PROJECT REFERENCE NO.	SHEET NO.
BP10-R013	EC-10/CONST 6

NAD 83 NA 2011



MATCHLINE -L- STA 28+10 (SHEET EC-11)

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8/17/99

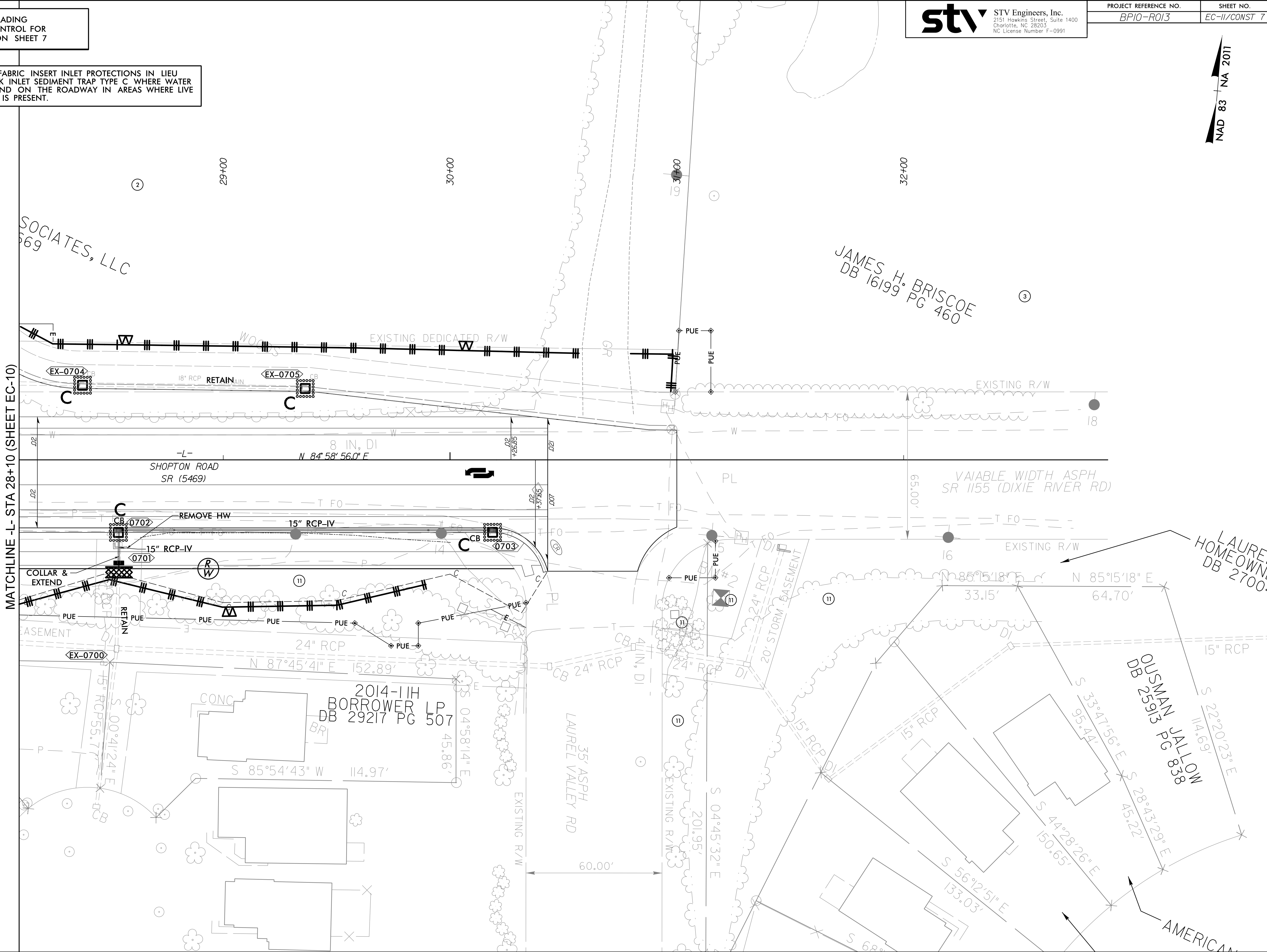
FINAL GRADING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7

NOTE: UTILIZE FABRIC INSERT INLET PROTECTIONS IN LIEU
OF ROCK INLET SEDIMENT TRAP TYPE C WHERE WATER
MAY POND ON THE ROADWAY IN AREAS WHERE LIVE
TRAFFIC IS PRESENT.

stv STV Engineers, Inc.
2151 Hawkins Street, Suite 1400
Charlotte, NC 28203
NC License Number F-0991

PROJECT REFERENCE NO.	SHEET NO.
BP10-R013	EC-II/CONST 7

NAD 83 NA 2011



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