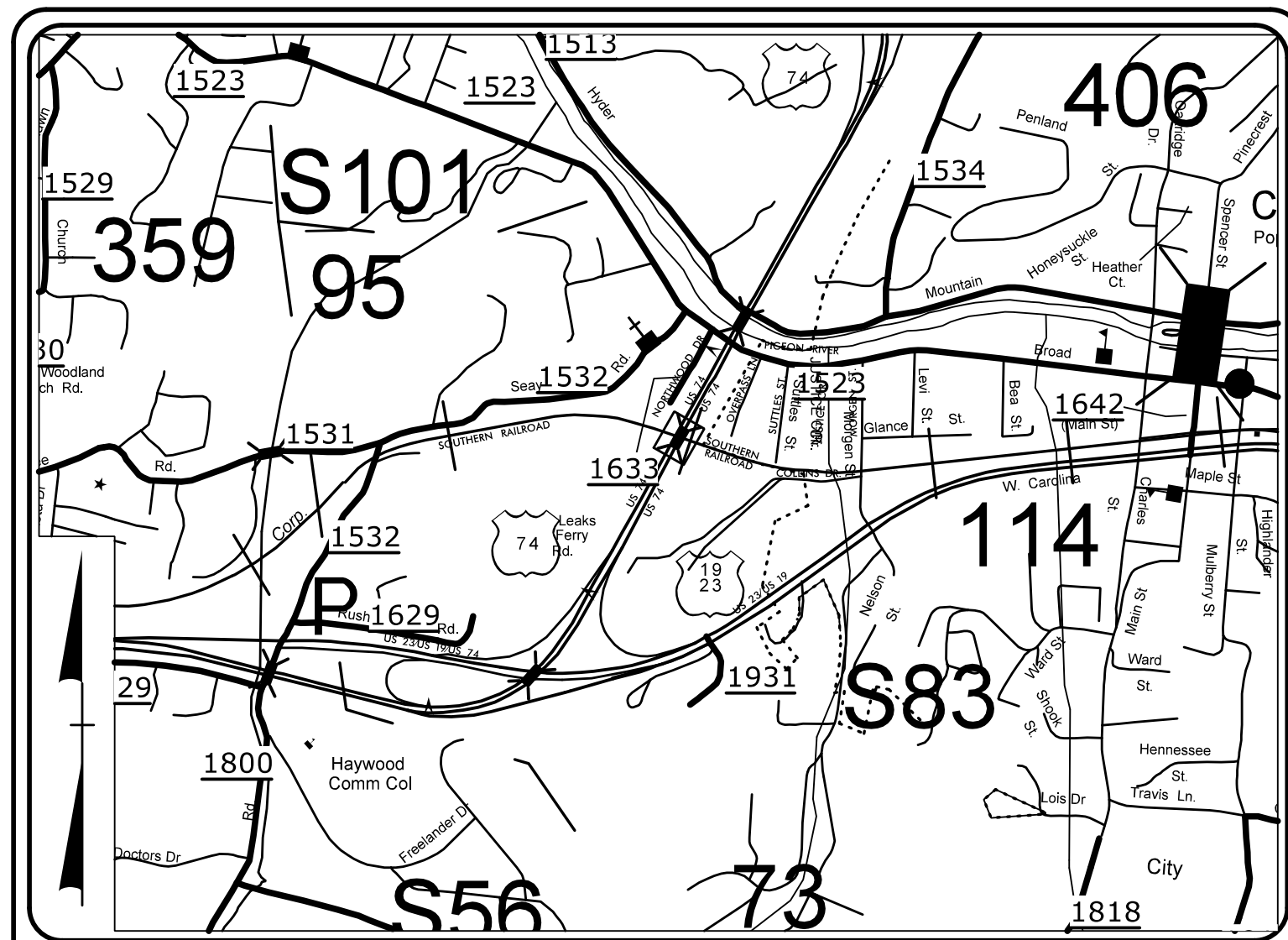


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5982	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
47814.1.1		PE	
47814.2.1		R/W, UTIL	
47814.3.1		CONST.	

TIP PROJECT: B-5982



VICINITY MAP
NOT TO SCALE

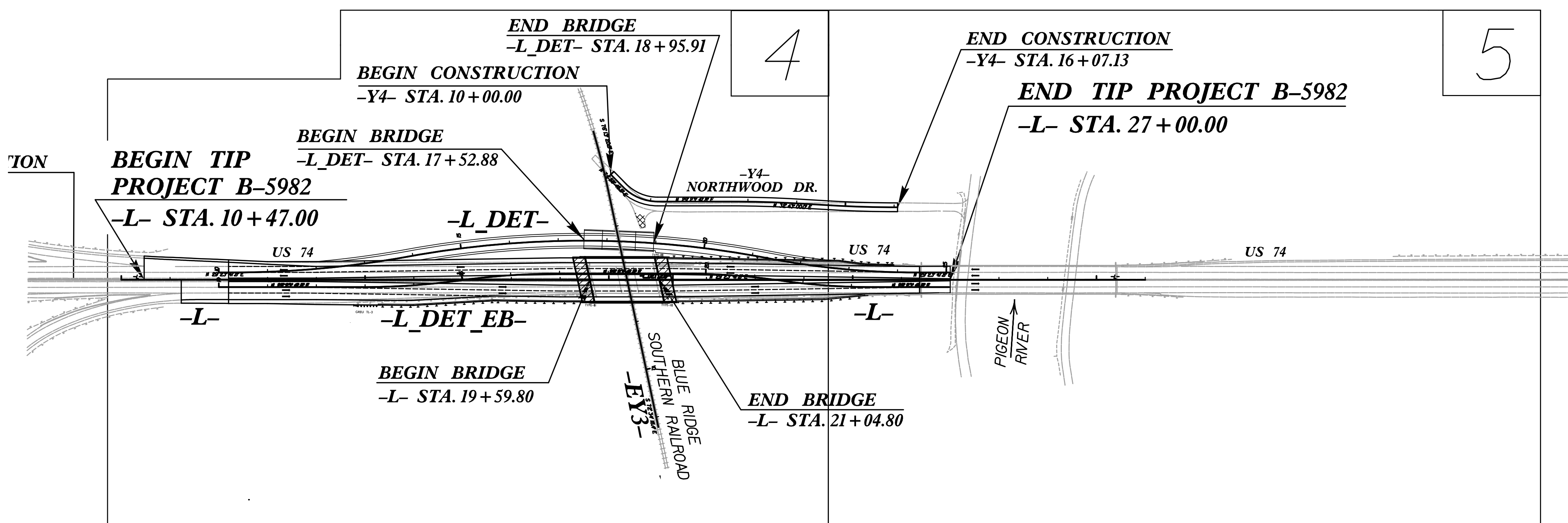
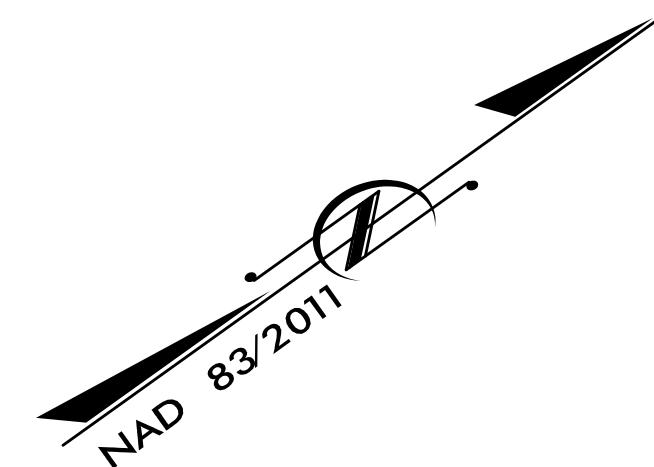
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

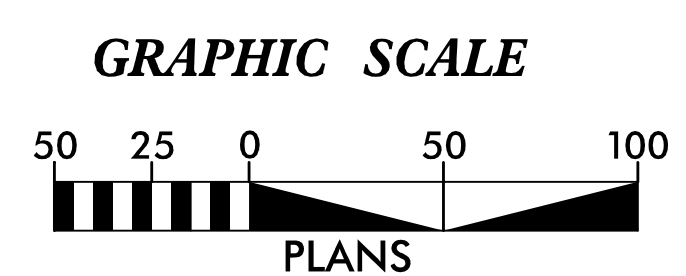
HAYWOOD COUNTY

**LOCATION: TOWN OF CLYDE - REPLACE BRIDGE
430095 ON US 74 OVER BLUE RIDGE
SOUTHERN RAILROAD**

**TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND
STRUCTURE**



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



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.



940 Main Campus Drive, Suite 500
Raleigh, NC 27606
NC License No. C-3705

Prepared In the Office of:
VHB ENGINEERING NC, P.C.
940 MAIN CAMPUS DRIVE, SUITE 500
RALEIGH, NC 27606

Designed by:
ERIC BERGER, PE 4036
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.

11/25/23
R:\ENVR\proj\B5982\REU\tsb\vdgn
tsb\vdgn

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

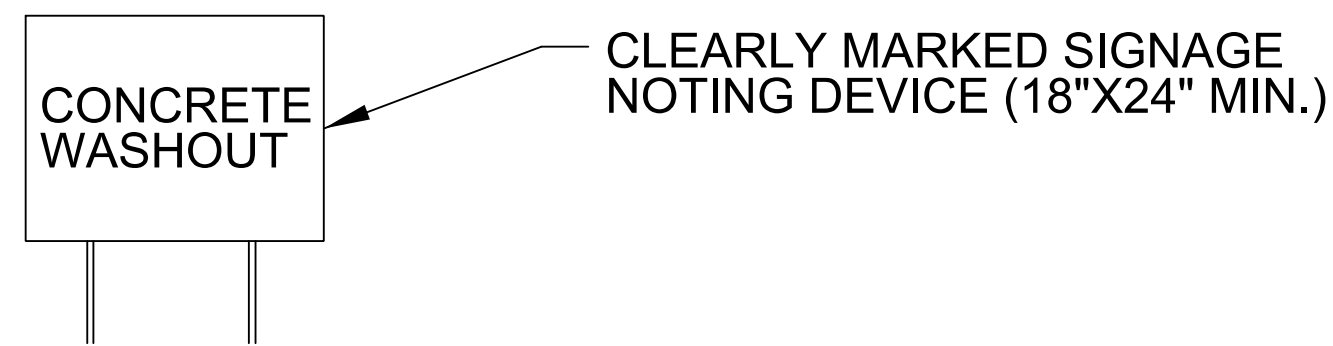
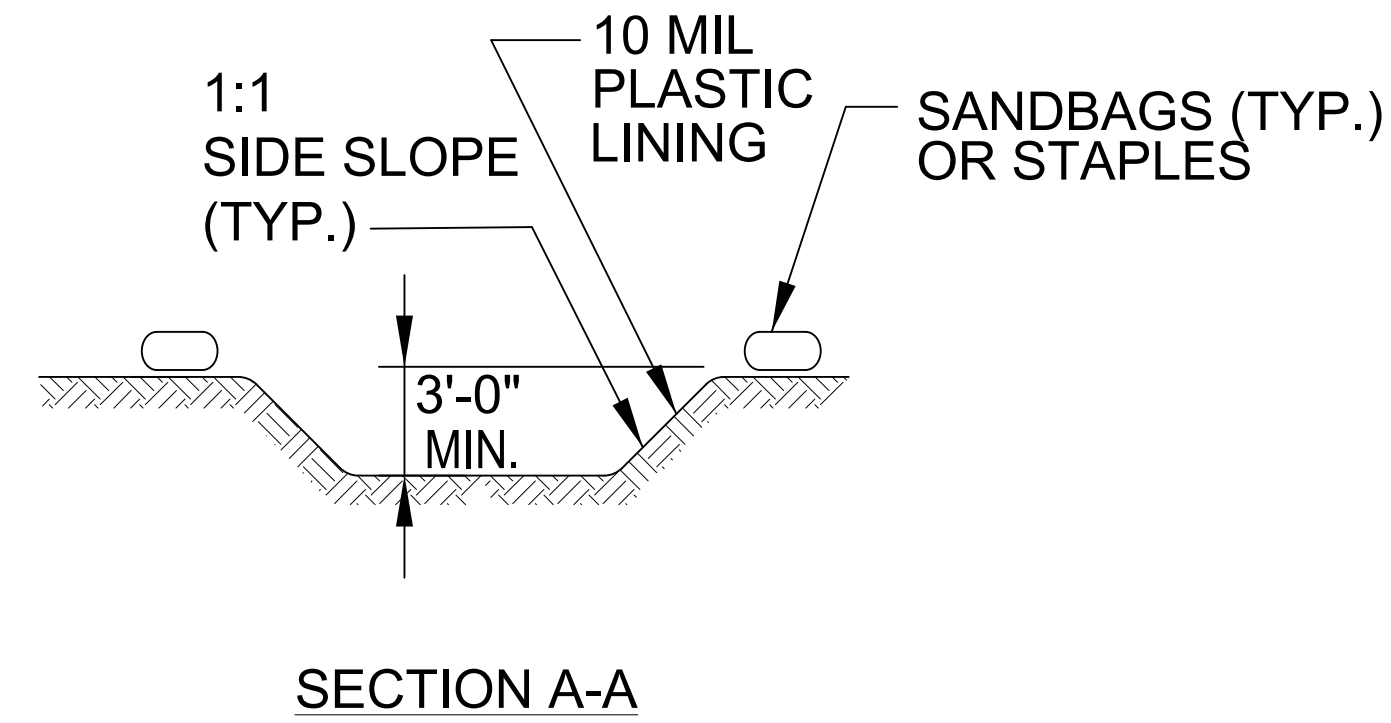
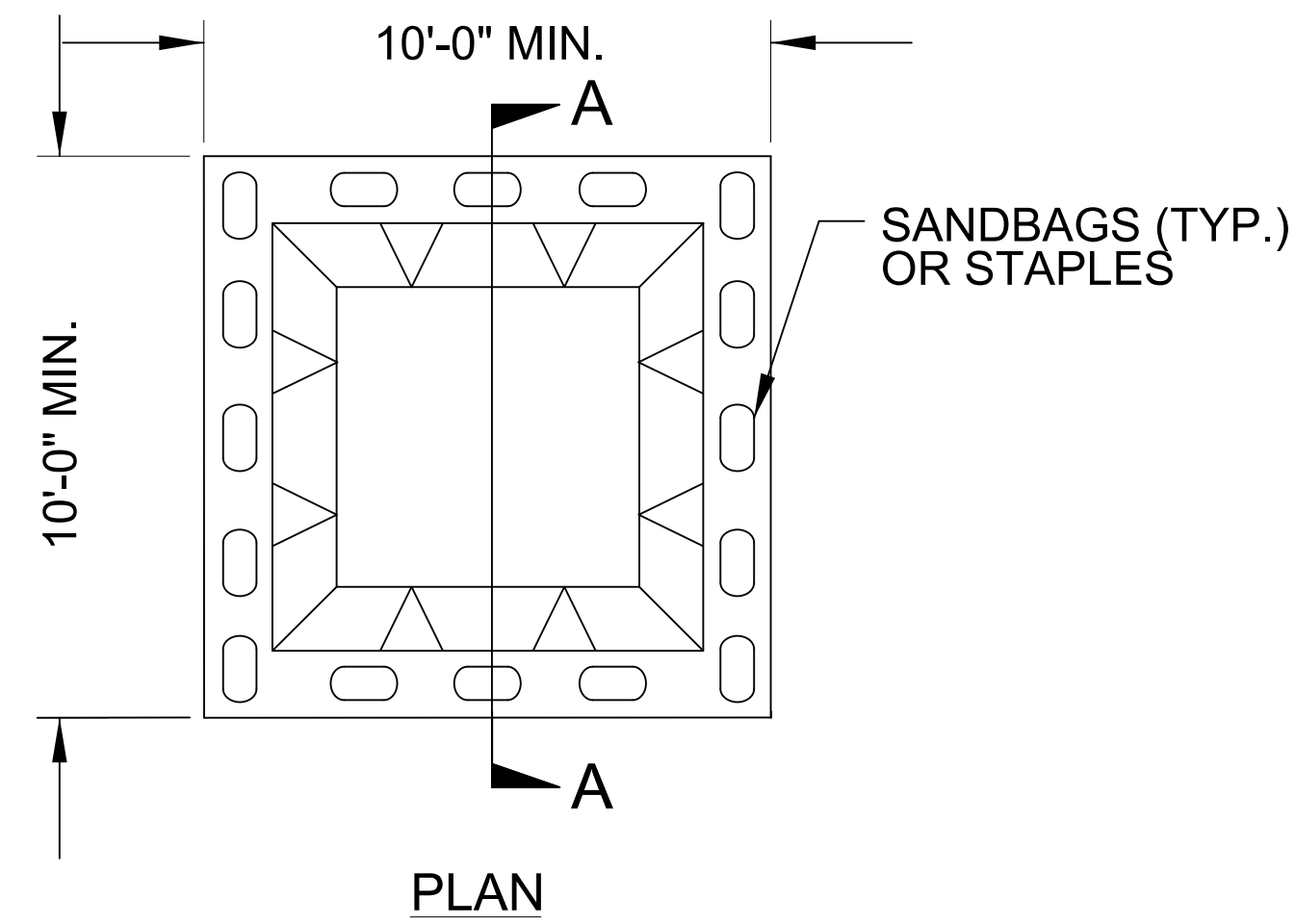
PROJECT REFERENCE NO. B-5982	SHEET NO. EC-02
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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				

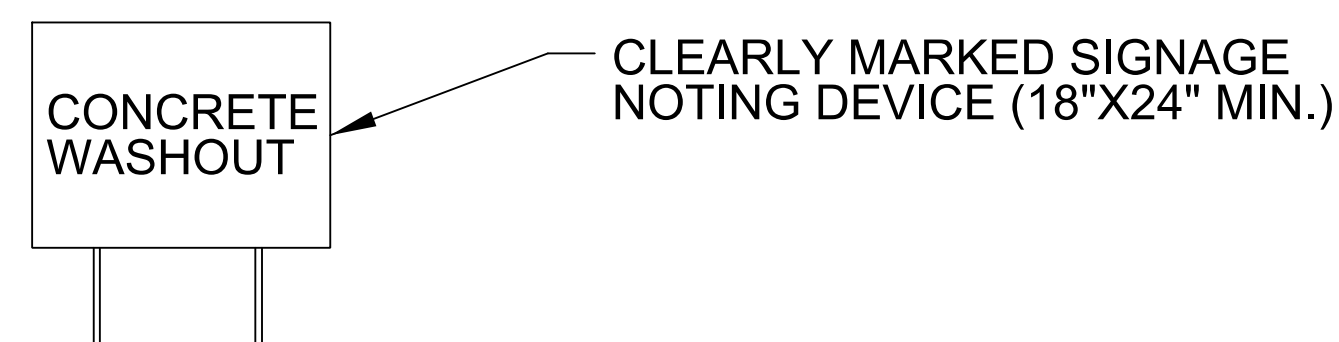
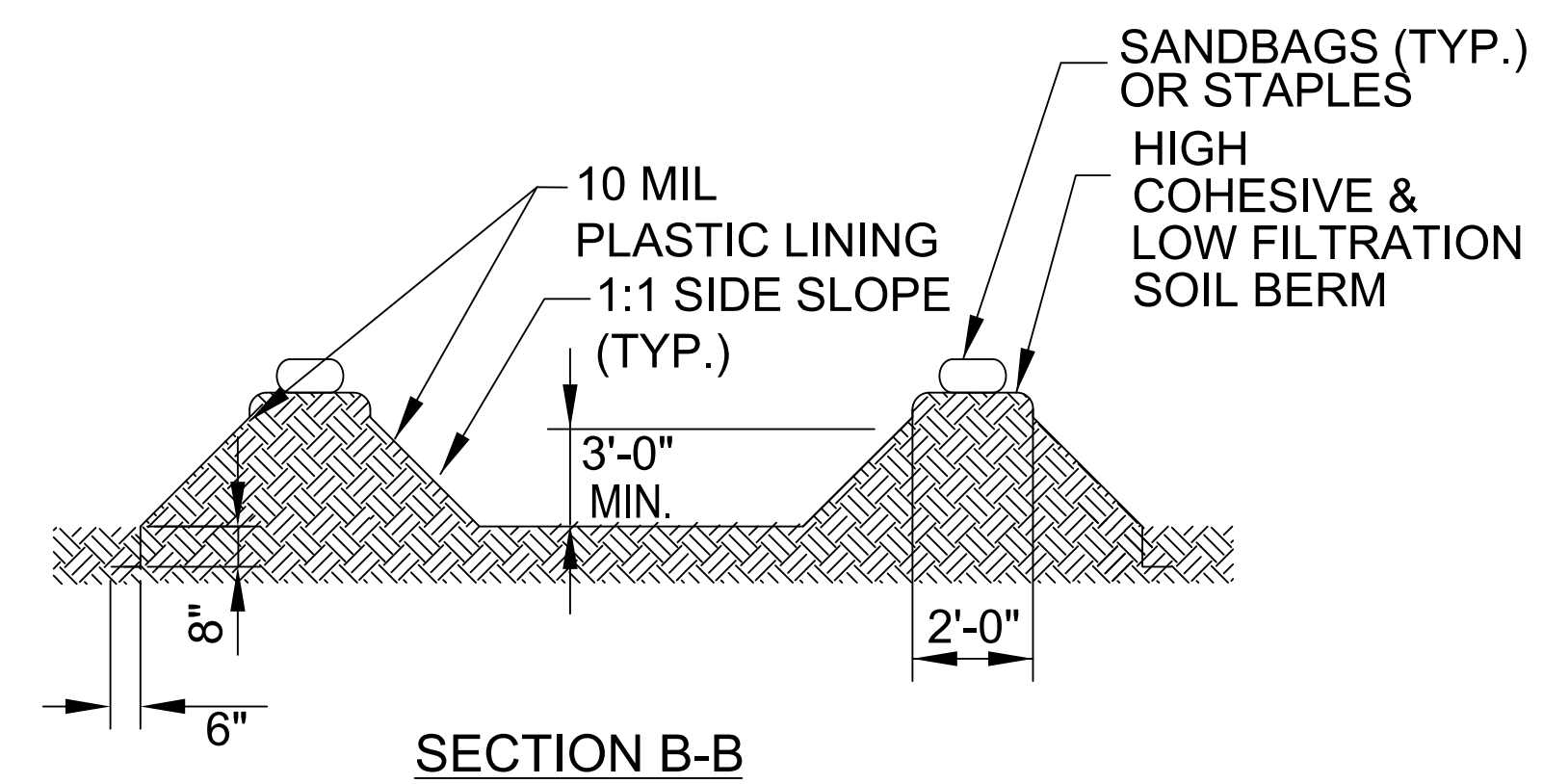
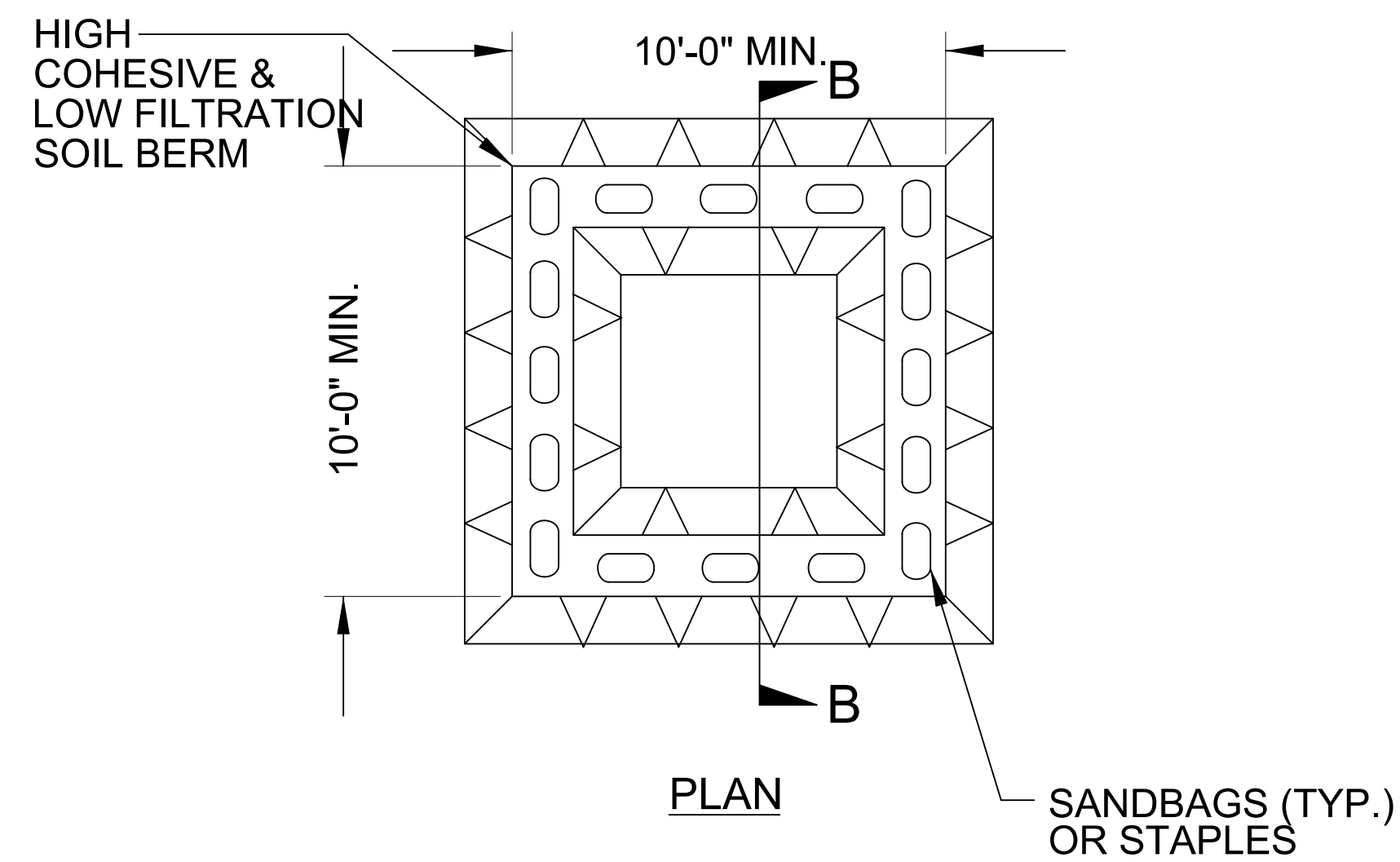
ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER

PROJECT REFERENCE NO. <i>B-5982</i>	SHEET NO. <i>EC-2A</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



BELOW GRADE WASHOUT STRUCTURE
NOT TO SCALE

- NOTES:**
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.



ABOVE GRADE WASHOUT STRUCTURE
NOT TO SCALE

- NOTES:**
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

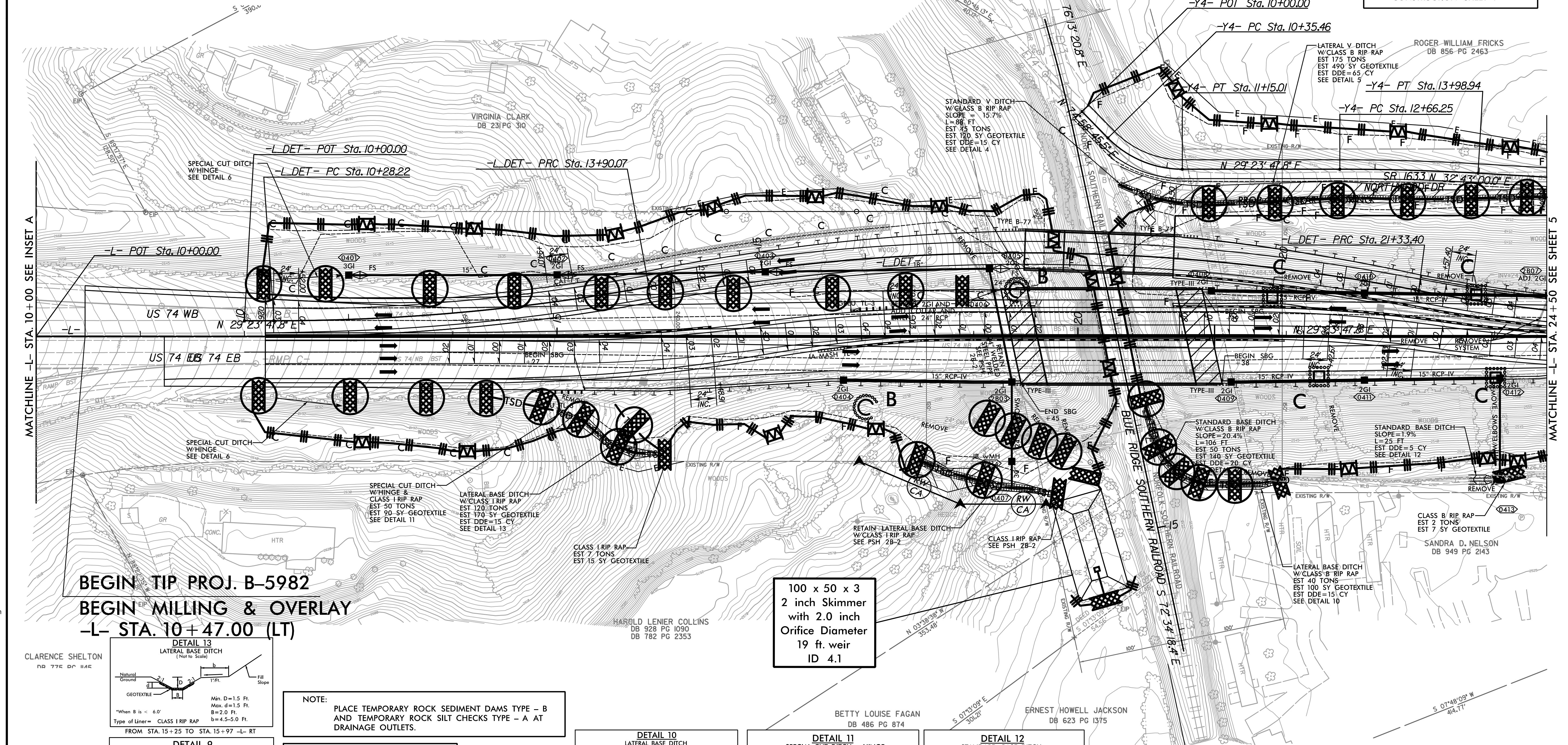
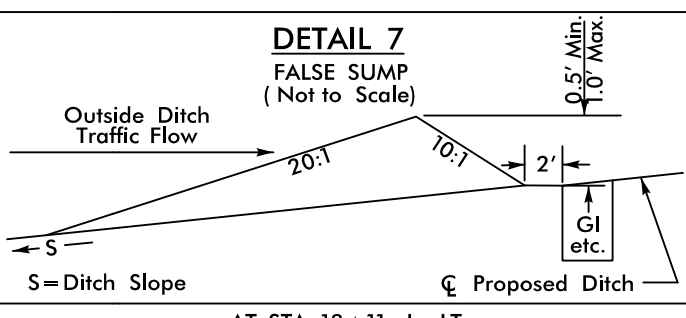
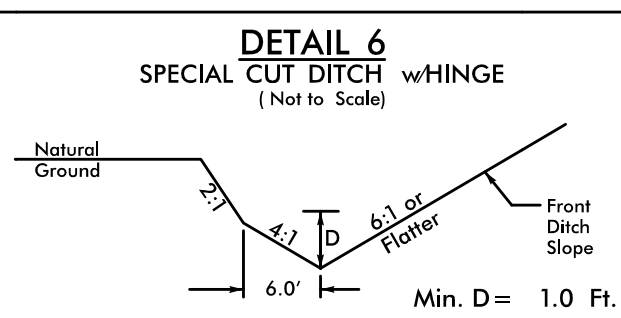
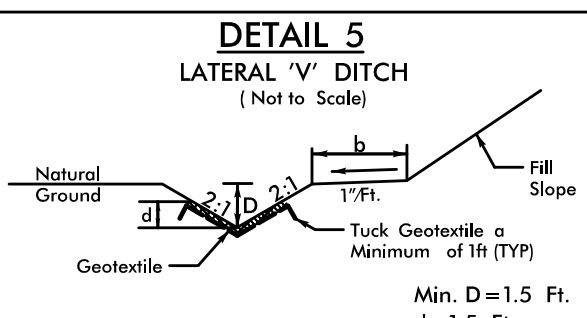
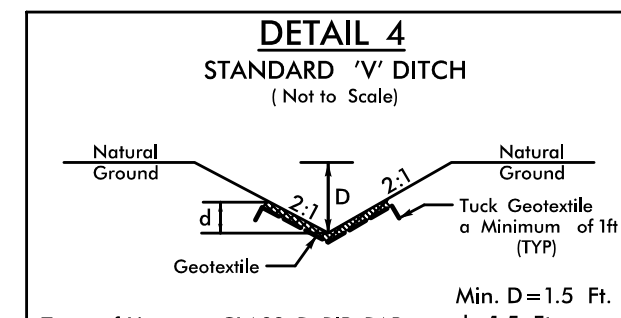
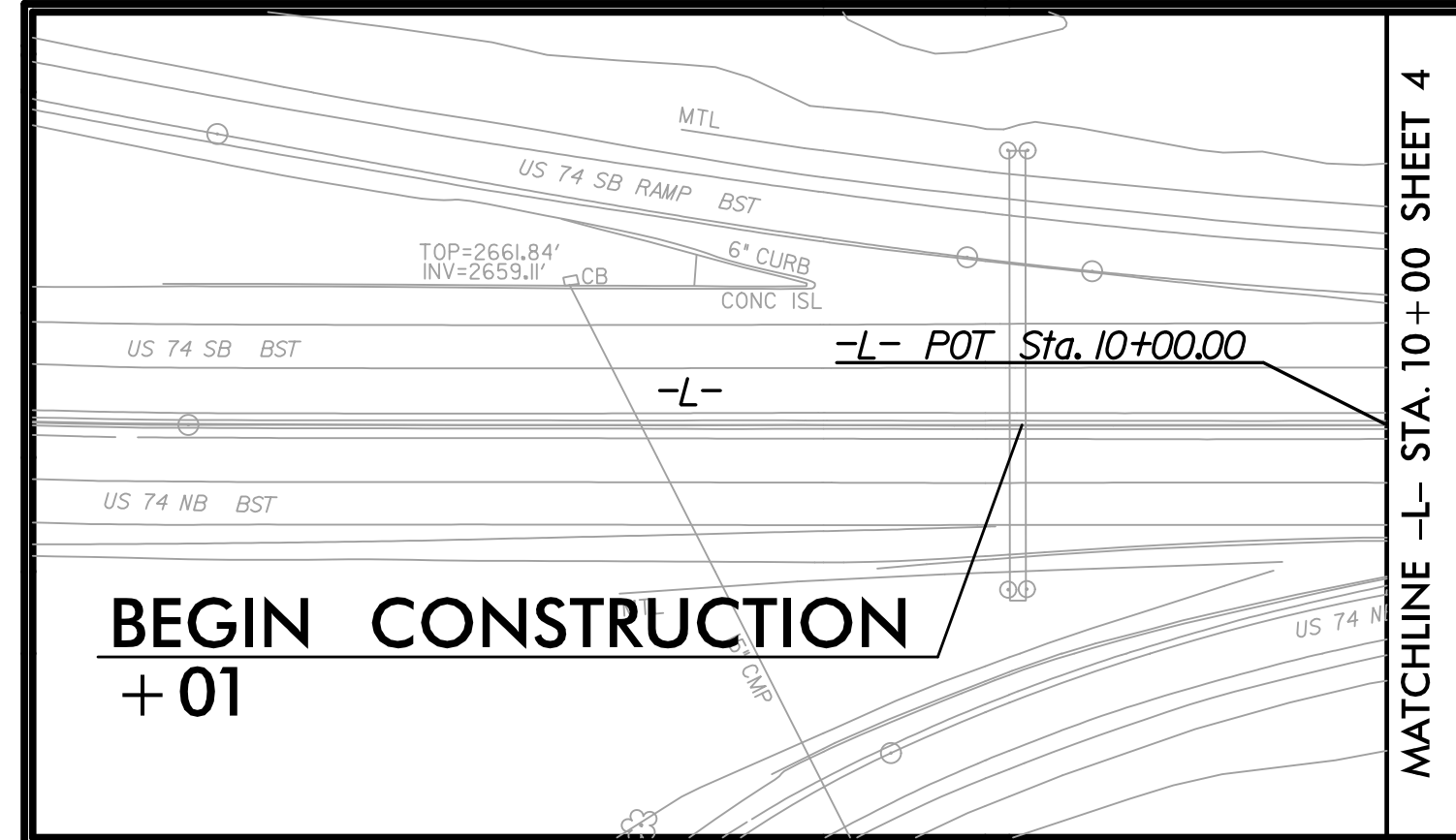
PROJECT REFERENCE NO. <i>B-5982</i>	SHEET NO. <i>EC-3A</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

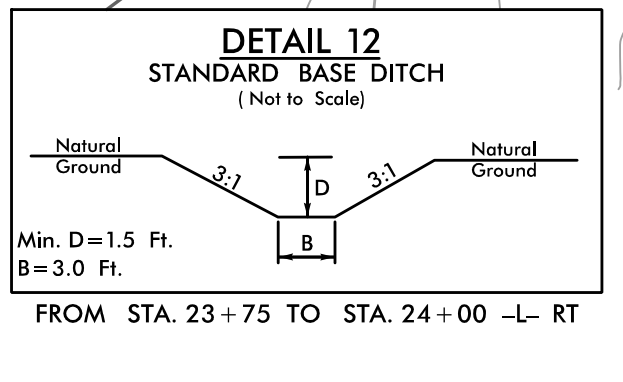
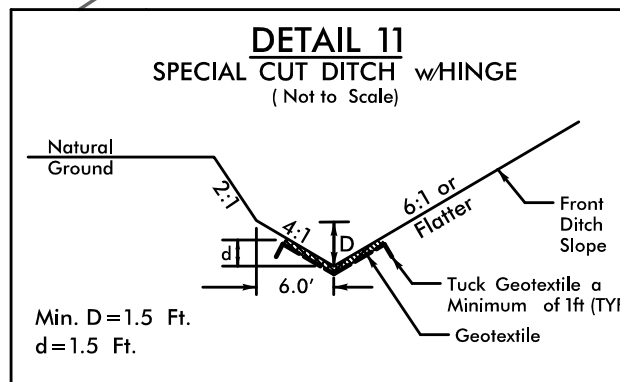
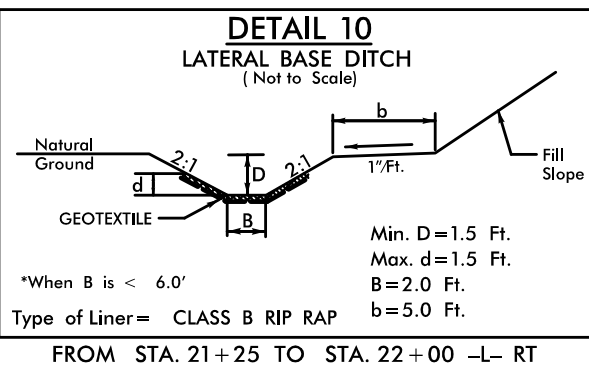
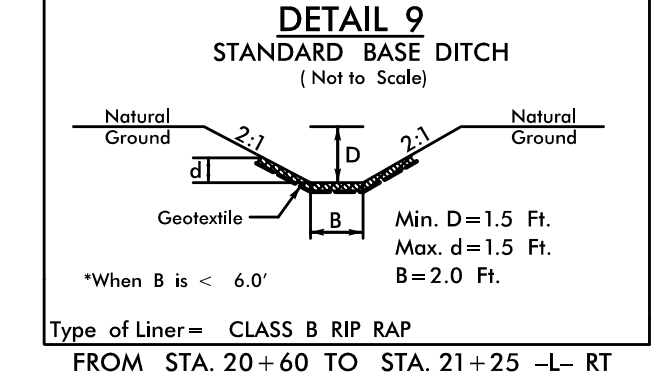
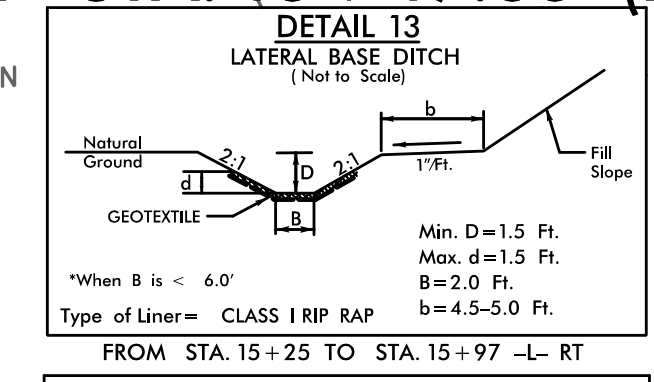
PROJECT REFERENCE NO.	SHEET NO.
B-5982	EC-04/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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MATCHLINE -L- STA. 10+00 SEE INSET A

MATCHLINE -L- STA. 24+50 SEE SHEET 5



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

UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF ROCK INLET SEDIMENT TRAPS, TYPE - C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC

PAVEMENT REMOVAL
 FOR -L- PROFILE SEE SHEET 6 & 7
 FOR -Y4- PROFILE SEE SHEET 10
 SEE S-1 thru S-51 FOR STRUCTURE PLANS

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PROJECT REFERENCE NO.	SHEET NO.
B-5982	EC-05/CONST.05
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

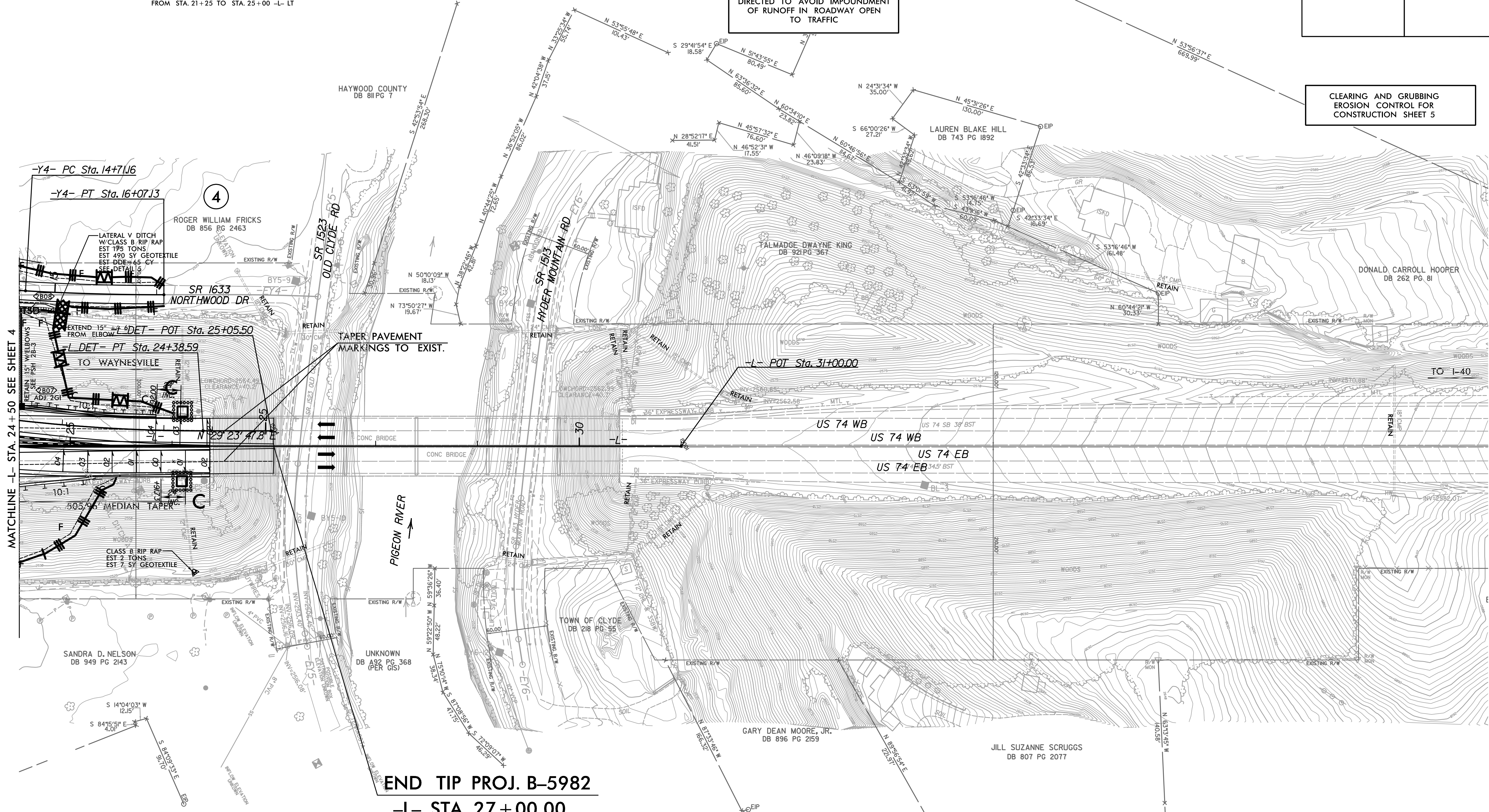
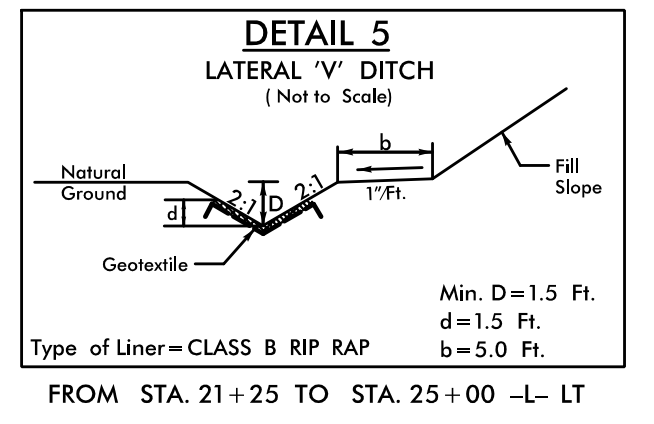


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NOTE:
 PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
 AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
 DRAINAGE OUTLETS.

UTILIZE FABRIC INSERT INLET
 PROTECTION IN
 LIEU OF ROCK INLET SEDIMENT
 TRAPS, TYPE - C AS
 DIRECTED TO AVOID IMPOUNDMENT
 OF RUNOFF IN ROADWAY OPEN
 TO TRAFFIC

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 5



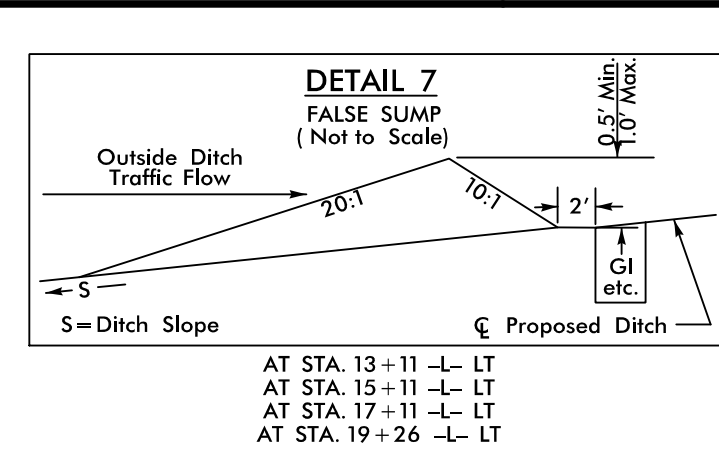
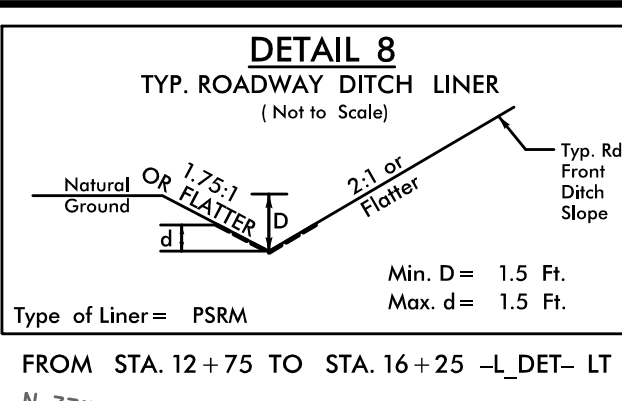
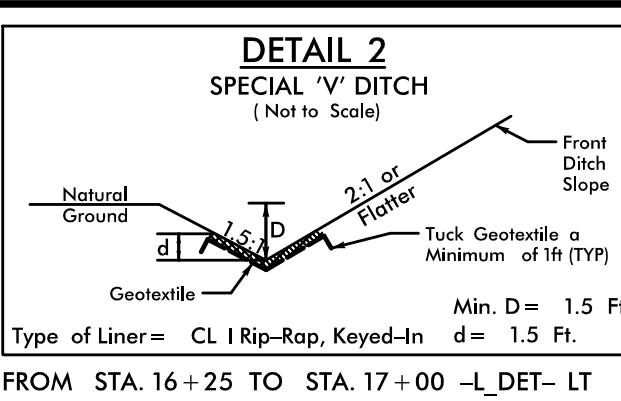
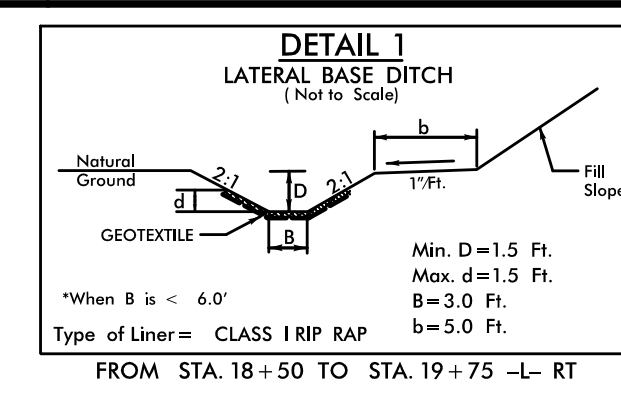
MATCHLINE -L- STA. 24+50 SEE SHEET 4

END TIP PROJ. B-5982
-L- STA. 27+00.00

FOR -L- PROFILE SEE SHEET 7
 FOR -Y4- PROFILE SEE SHEET 10

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 J. L. Depper

PROJECT REFERENCE NO.	SHEET NO.
B-5982	EC-06/CONST.2B-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



DETAIL 3
FALSE SUMP
(Not to Scale)

Ditch Slope	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	130'	Over 6.0%	50'

AT STA. 17+34 -L_DET- RT
AT STA. 21+11 -L_DET- RT

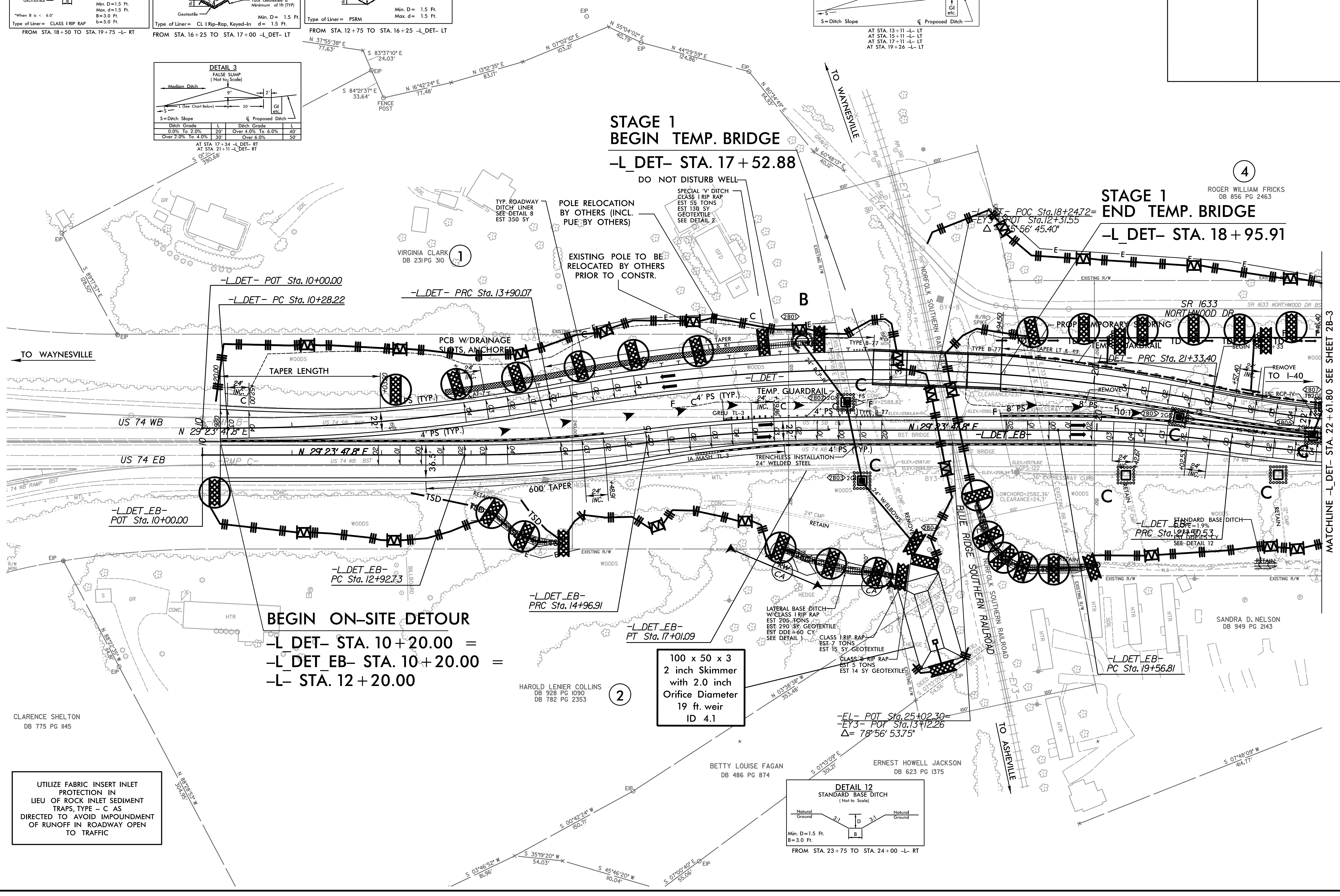
DETAIL OF TEMPORARY DETOUR

STAGE 1
BEGIN TEMP. BRIDGE

-L_DET- STA. 17+52.88

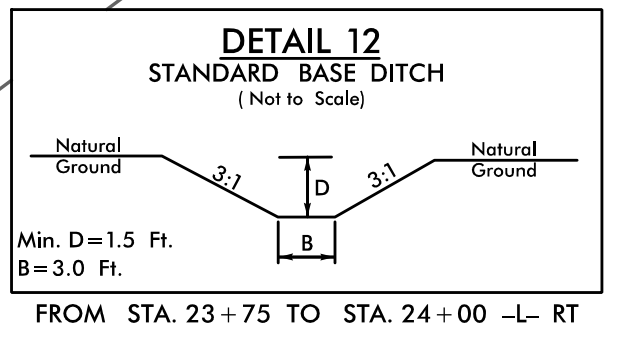
STAGE 1
END TEMP. BRIDGE

-L_DET- STA. 18+95.91



UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF ROCK INLET SEDIMENT TRAPS, TYPE - C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC

100 x 50 x 3
2 inch Skimmer
with 2.0 inch
Orifice Diameter
19 ft. weir
ID 4.1



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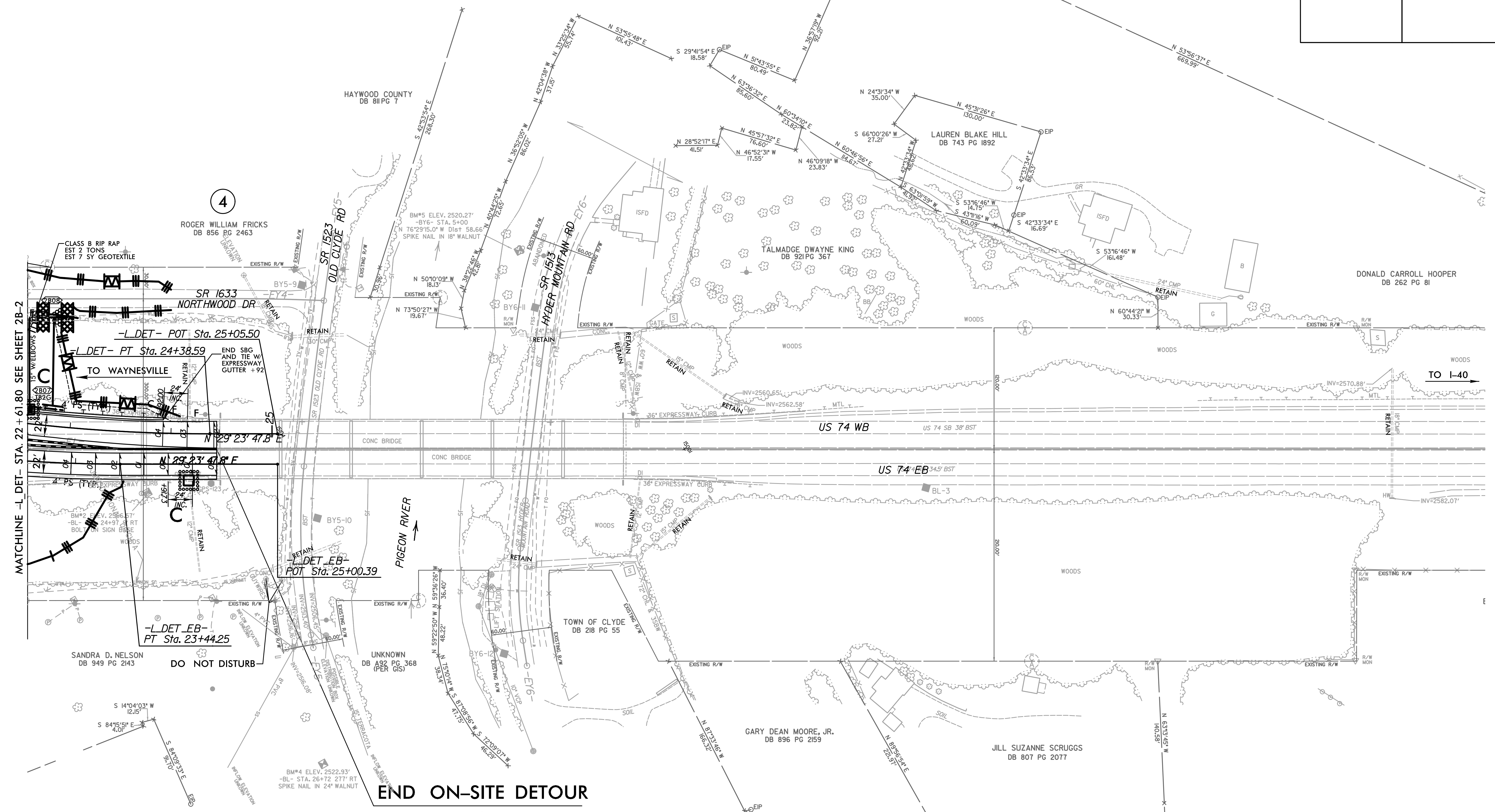
MATCHLINE -L_DET- STA. 22+61.80 SEE SHEET 2B-3

DETAIL OF TEMPORARY DETOUR

PROJECT REFERENCE NO. B-5982	SHEET NO. EC-07/CONST.2B-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



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Raleigh, NC 27606



MATCHLINE -L DET- STA. 22 + 61.80 SEE SHEET 2B-2

CLASS B RIP RAP
EST 2 TONS
EST 7 SY GEOTEXTILE

4

ROGER WILLIAM FRICKS
DB 856 PG 2463

SR 1633
NORTHWOOD DR

-L DET- POT Sta. 25+05.50

-L DET- PT Sta. 24+38.59

END SBG AND TIE W EXPRESSWAY GUTTER +92

TO WAYNESVILLE

SR 1523
OLD CLYDE RD

SR 1513
HYDER MOUNTAIN RD

US 74 WB

US 74 SB 38' BST

US 74 EB 34.5' BST

CONC BRIDGE

CONC BRIDGE

US 74 EB 34.5' BST

WOODS

WOODS

WOODS

WOODS

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END ON-SITE DETOUR

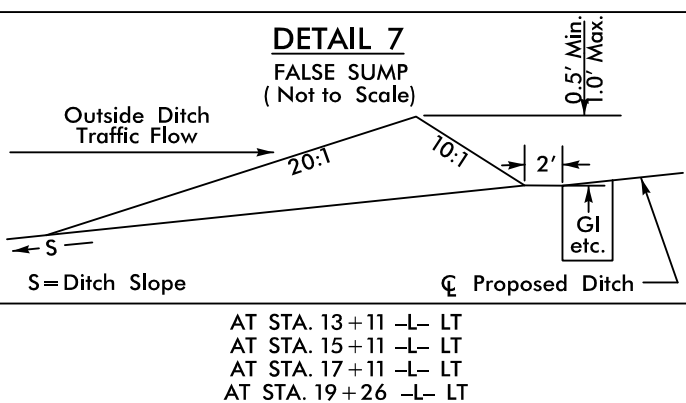
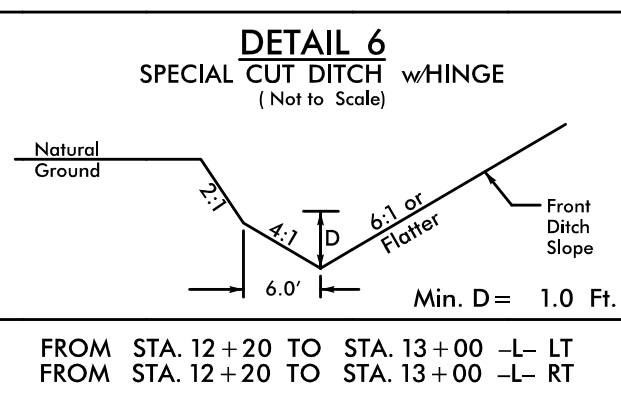
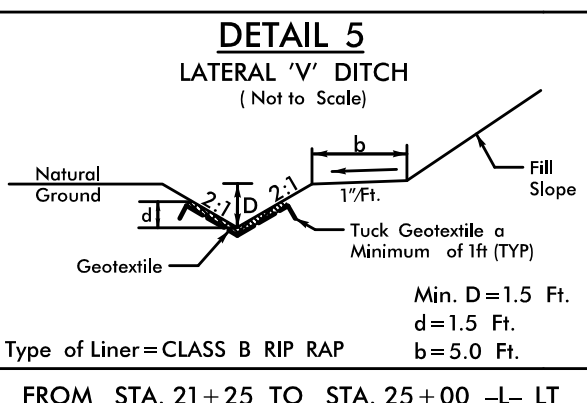
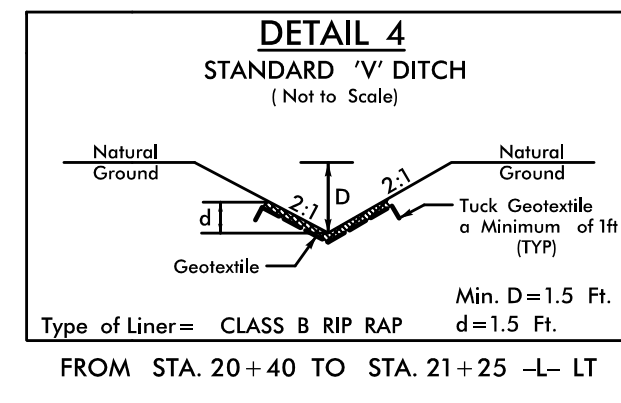
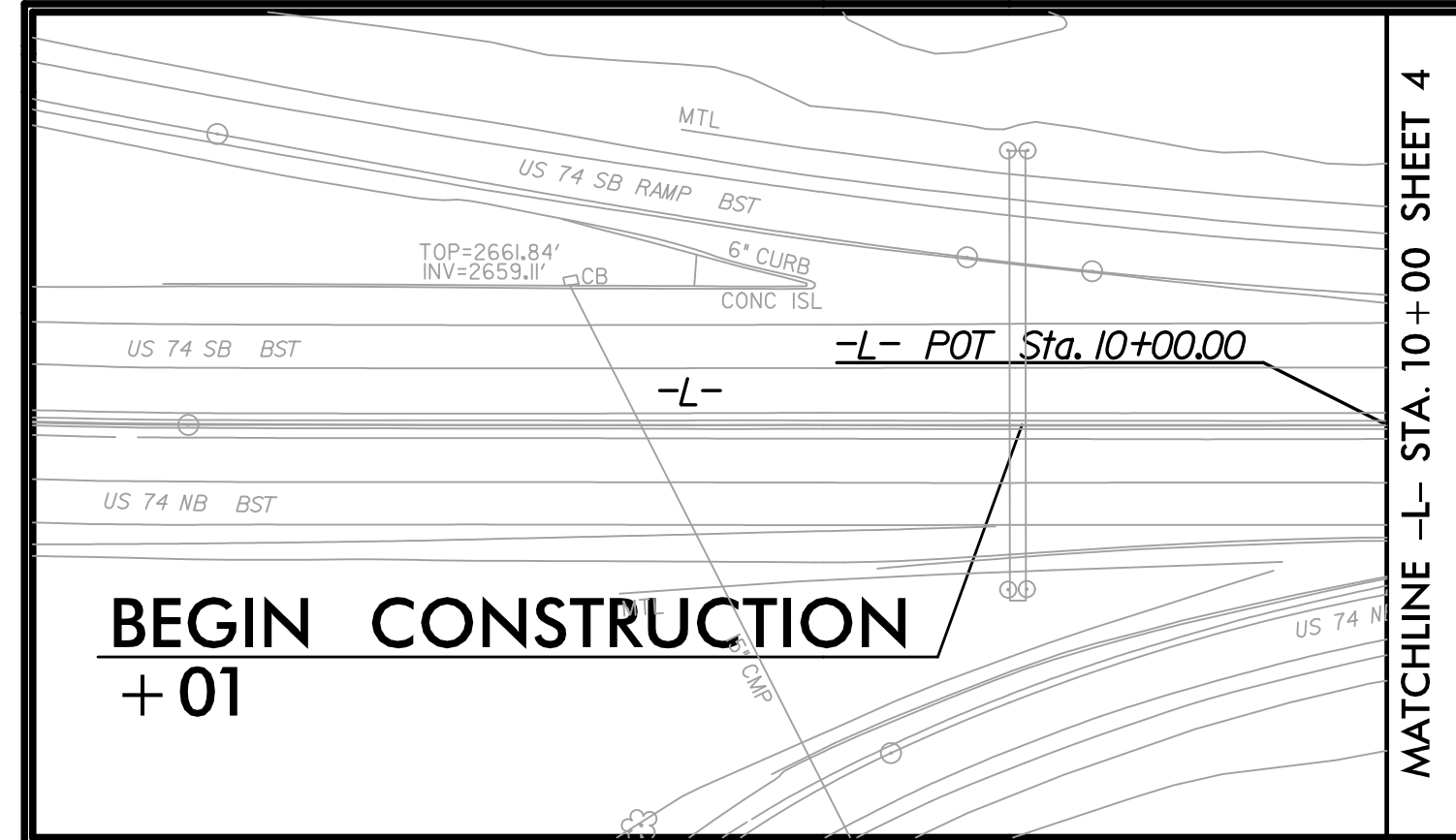
- L DET- STA. 24 + 45.00 =
- L DET EB- STA. 24 + 40.12 =
- L- STA. 26 + 37.14

UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF ROCK INLET SEDIMENT TRAPS, TYPE - C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC

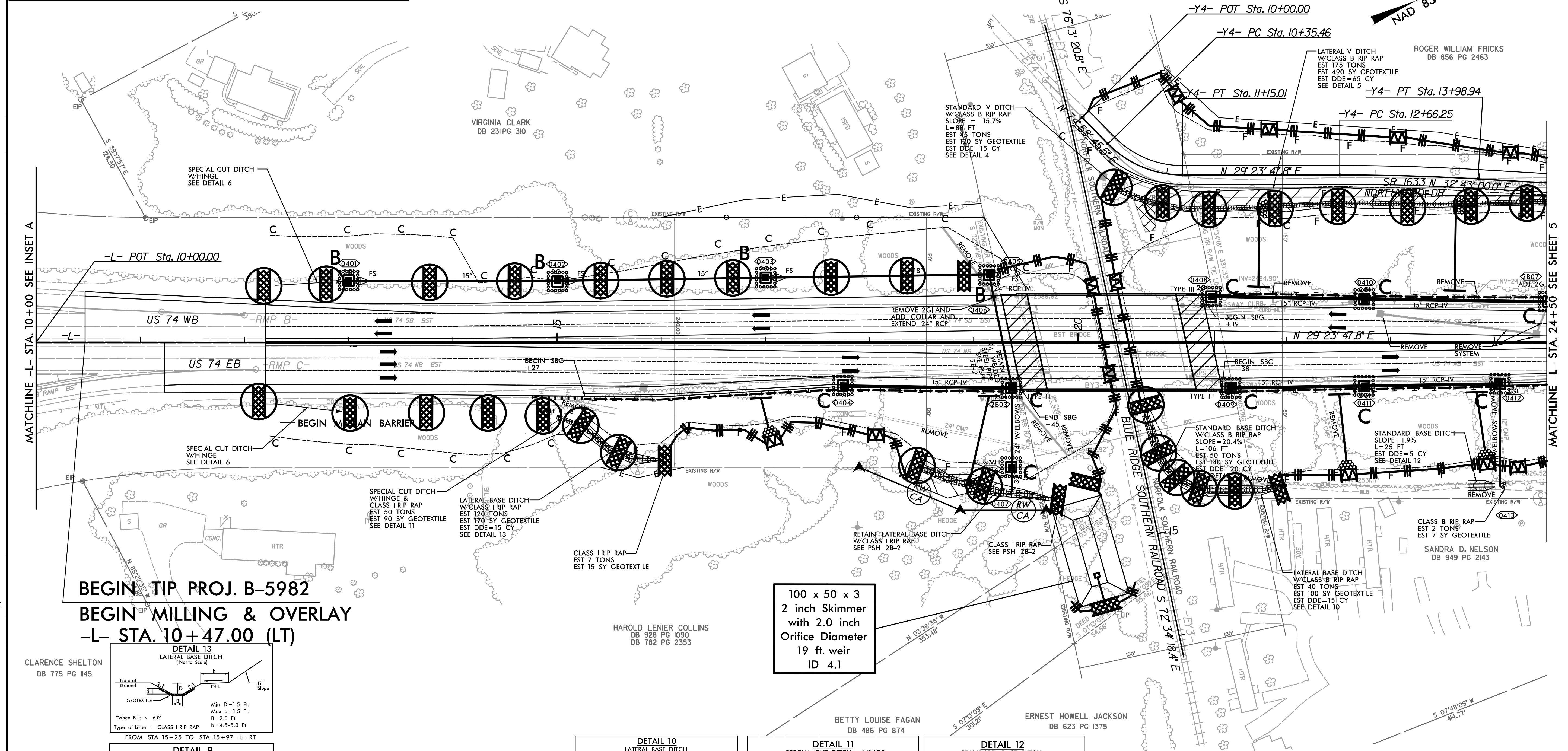
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PROJECT REFERENCE NO.	SHEET NO.
B-5982	EC-08/CONST.04
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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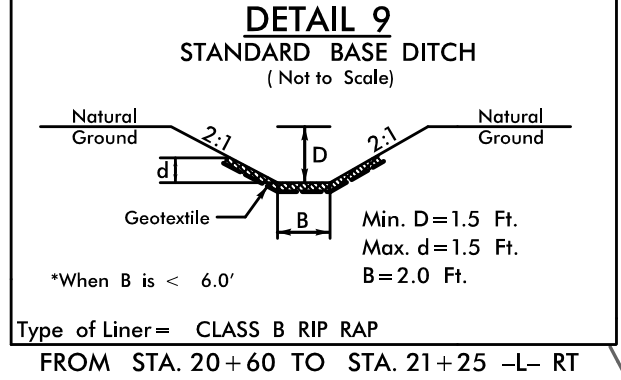
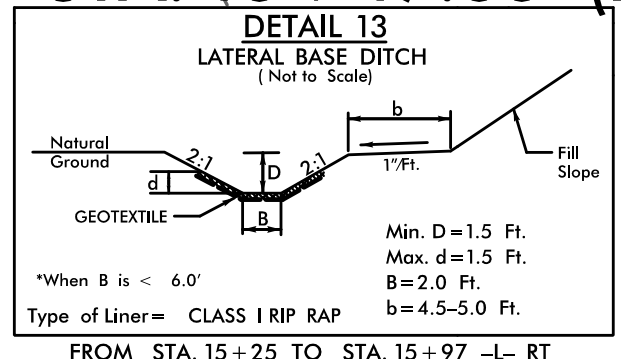
Place Matting for Erosion Control on Slope as Work Allows.
 Sta. 18+00 to Sta. 20+00 -L- RT
 Sta. 20+50 to Sta. 24+50 -L- LT
 Sta. 20+50 to Sta. 24+50 -L- RT



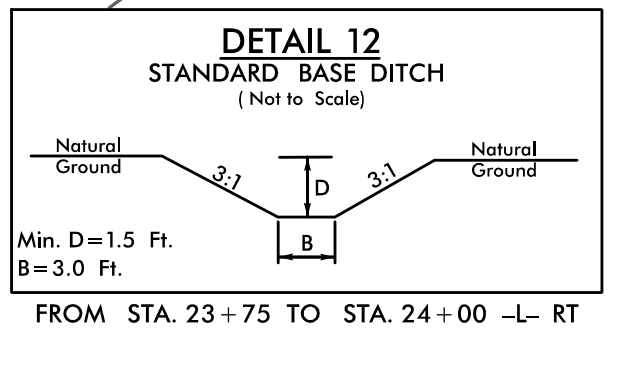
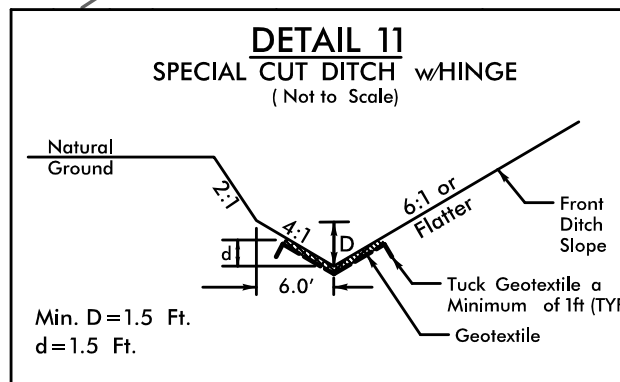
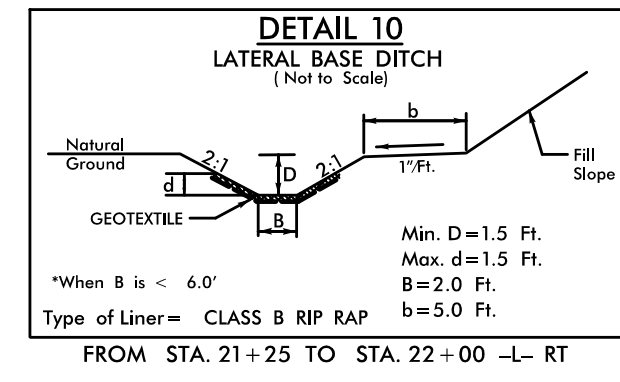
MATCHLINE -L- STA. 10+00 SEE INSET A

MATCHLINE -L- STA. 24+50 SEE SHEET 5

BEGIN TIP PROJ. B-5982
BEGIN MILLING & OVERLAY
-L- STA. 10+47.00 (LT)



UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF ROCK INLET SEDIMENT TRAPS, TYPE - C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC



100 x 50 x 3
 2 inch Skimmer
 with 2.0 inch
 Orifice Diameter
 19 ft. weir
 ID 4.1

PAVEMENT REMOVAL
 FOR -L- PROFILE SEE SHEET 6 & 7
 FOR -Y4- PROFILE SEE SHEET 10
 SEE S-1 thru S-51 FOR STRUCTURE PLANS

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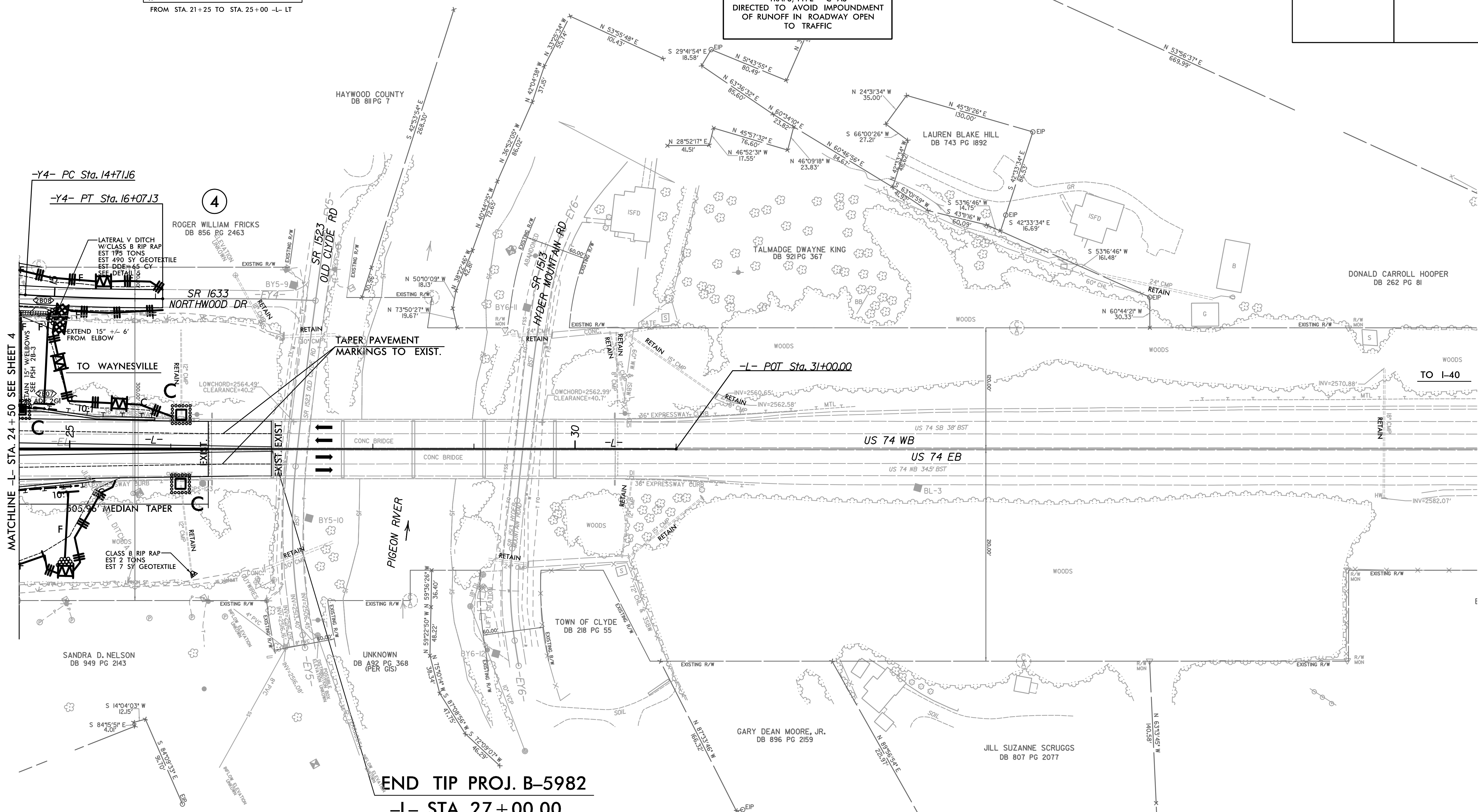
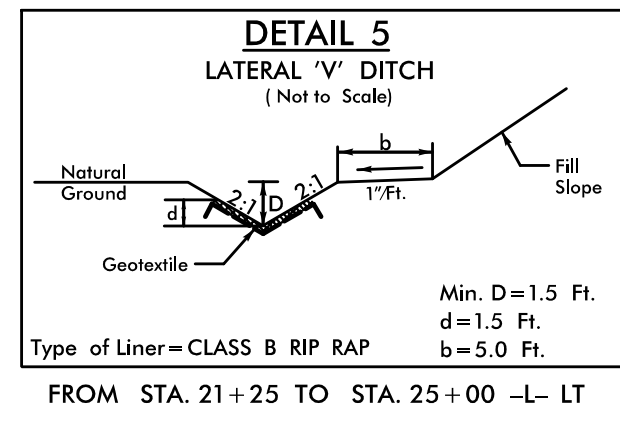
PROJECT REFERENCE NO.	SHEET NO.
B-5982	EC-09/CONST.05
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



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 940 Main Campus Drive, Suite 500
 Raleigh, NC 27606

Place Matting for Erosion Control
 on Slope as Work Allows.
 Sta. 24+50 to Sta. 25+00 -L- LT
 Sta. 24+50 to Sta. 25+00 -L- RT

UTILIZE FABRIC INSERT INLET
 PROTECTION IN
 LIEU OF ROCK INLET SEDIMENT
 TRAPS, TYPE - C AS
 DIRECTED TO AVOID IMPOUNDMENT
 OF RUNOFF IN ROADWAY OPEN
 TO TRAFFIC



END TIP PROJ. B-5982
 -L- STA. 27 + 00.00

FOR -L- PROFILE SEE SHEET 7
 FOR -Y4- PROFILE SEE SHEET 10

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 J. Deppa