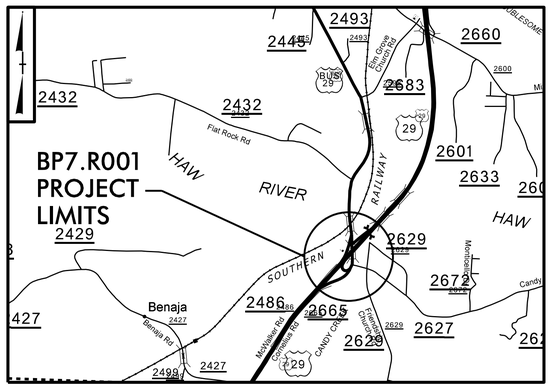
PROJECT: BP7.R001

TIP #



VICINITY MAP
NOT TO SCALE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BP7.R001	EC-1	

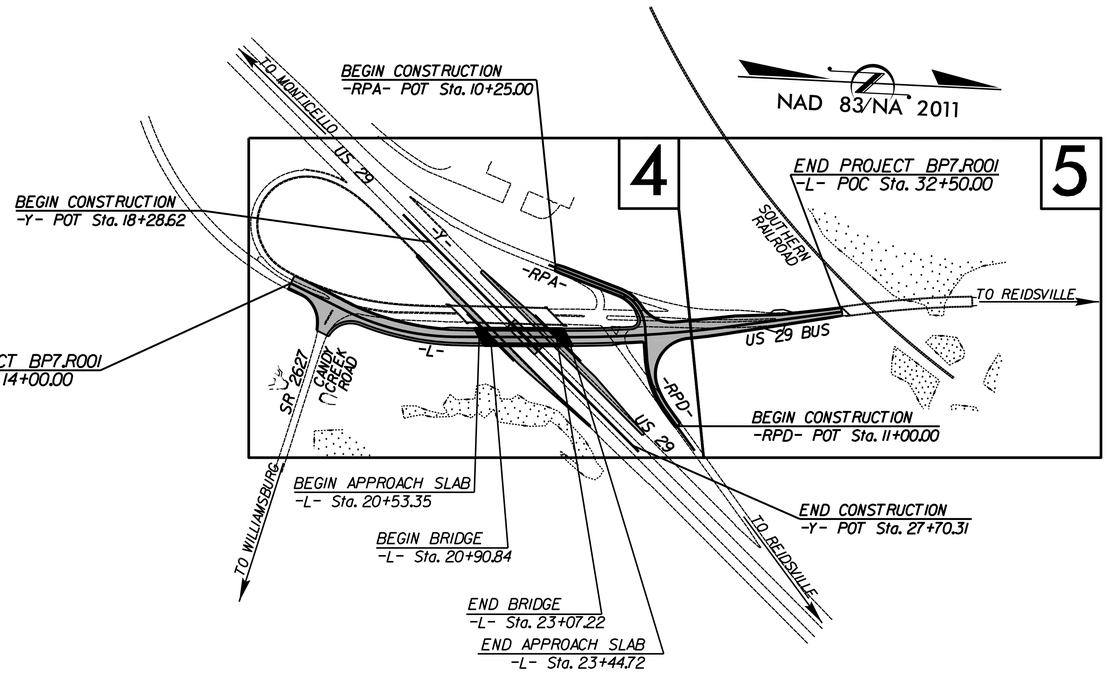
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
BP7.R001.1		PE
BP7.R001.2		RW
BP7.R001.3		CONST.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

ROCKINGHAM COUNTY

LOCATION: BRIDGE NO. 23 OVER US 29 ON US 29 BUSINESS
TYPE OF WORK: GRADING, PAVING, DRAINAGE AND STRUCTURE



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

☆ EXISTING SIGNAL
★ PROPOSED SIGNAL

GRAPHIC SCALE

50 25 0 50 100
PLANS

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 DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.

tomo ENGINEERING

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(919) 414-4410
License No.: P-2066

Prepared in the Office of:
Tomo Engineering, PLLC
2319 Cardinal Drive
Durham, NC 27707

Designed by:
Tyler Overby ***4140***
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.

PROJECT REFERENCE NO.	SHEET NO.
BP7.R001	EC-02

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

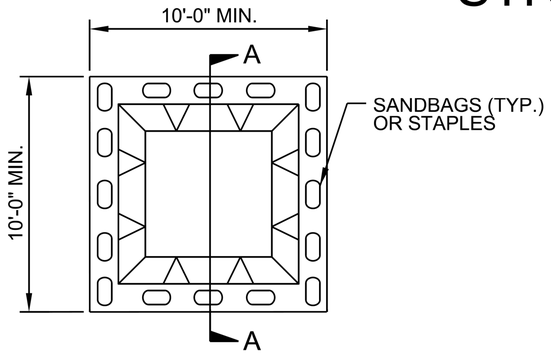
EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1630.03	Temporary Silt Ditch	TSD
1630.04	Stilling Basin	
1630.05	Temporary Diversion	TD
1630.06	Special Stilling Basin	
1630.07	Skimmer Basin	
1630.08	Tiered Skimmer Basin	
1630.09	Earthen Dam with Skimmer	
	Infiltration Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C

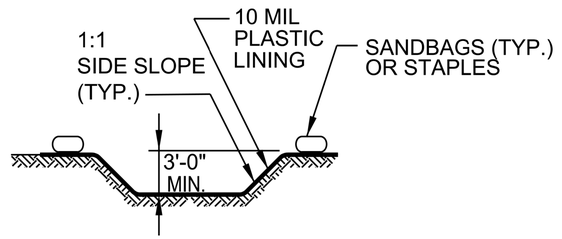
Std. #	Description	Symbol
1633.01	Temporary Rock Silt Check Type A	
1633.02	Temporary Rock Silt Check Type B	
1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1634.01	Temporary Rock Sediment Dam Type A	
1634.02	Temporary Rock Sediment Dam Type B	
1635.01	Rock Pipe Inlet Sediment Trap Type A	A
1635.02	Rock Pipe Inlet Sediment Trap Type B	B
1636.01	Excelsior Wattle Check	
1636.01	Excelsior Wattle Check with Flocculant	
1636.01	Coir Fiber Wattle Check	
1636.01	Coir Fiber Wattle Check with Flocculant	
1636.02	Silt Fence Excelsior Wattle Break	EW
	Silt Fence Coir Fiber Wattle Break	CFW
1636.03	Excelsior Wattle Barrier	—EW—EW—EW—
1636.03	Coir Fiber Wattle Barrier	—CFW—CFW—CFW—

PROJECT REFERENCE NO.	SHEET NO.
BP7.R001	EC-2A

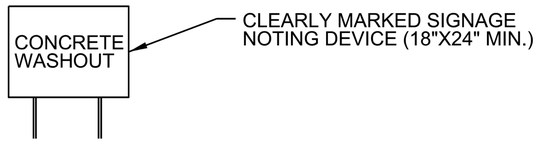
ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



PLAN



SECTION A-A



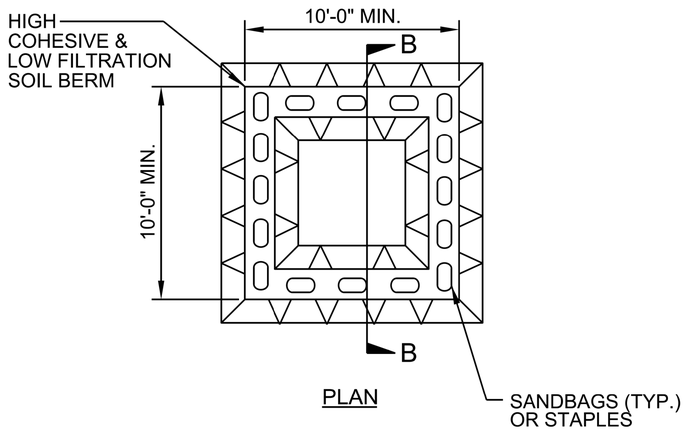
NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD

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.

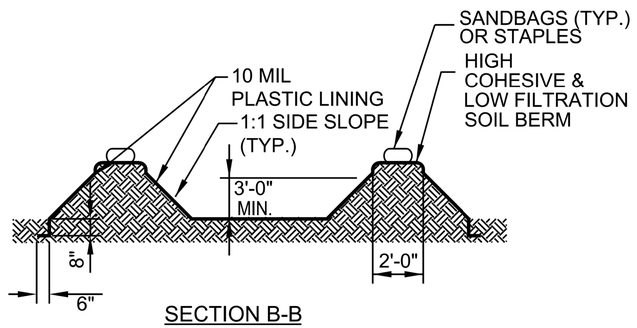
3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

BELOW GRADE WASHOUT STRUCTURE

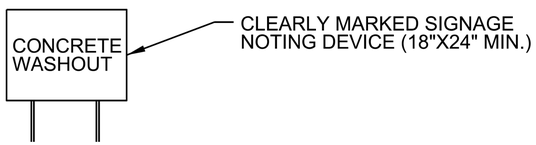
NOT TO SCALE



PLAN



SECTION B-B



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

PROJECT REFERENCE NO.	SHEET NO.
BP7.R001	EC-3

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

STRAW MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-L-	17+00	19+24	LT	165
4	-L-	12+88	14+00	LT	180
4	-RPA-	10+50	13+75	RT	325
4	-RPA-	10+50	12+75	LT	150
4	-Y-	26+00	28+00	LT	375
			STRAW SUBTOTAL		1195
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					6390

EXCELSIOR MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-RPD-	11+00	13+70	RT	380
		EXCELSIOR SUBTOTAL			380
			TOTAL MATTING		7965
				SAY	8500

PROJECT REFERENCE NO.	SHEET NO.
BP7.R001	EC-04/CONST.04
R/W SHEET NO.	

NAD 83 NA 2011

-RPA-
PI Sta 13+34.63
Δ = 65° 14' 57.6" (RT)
D = 42° 26' 28.7"
L = 153.74'
T = 86.42'
R = 135.00'
SE = 04

-RPD-
PI Sta 12+57.47
Δ = 32° 17' 42.0" (RT)
D = 16° 51' 06.1"
L = 191.64'
T = 98.44'
R = 340.00'
SE = 06

FOR -L- PROFILE SEE SHEET 6
FOR -RPA- PROFILE SEE SHEET 7
FOR -RPD- PROFILE SEE SHEET 7

REMOVE AND REPLACE
4-OTCB
0423
10P=699.0
INV=687.52
TRENCHLESS INSTALLATION 30" WELDED STEEL
0424
INV=686.52

BEGIN PROJECT BP7.R001
-L- POC Sta. 13+70.00
-L- PT Sta. 14+00.00

-Y- POT Sta. 17+00.00

BEGIN CONSTRUCTION
-Y- POT Sta. 18+09.03

BEGIN CONSTRUCTION
-RPA- POT Sta. 10+25.00

-L- POC Sta. 26+00.00
-RPA- POT Sta. 14+25.00
-RPD- POT Sta. 14+25.00

-RPA- POT Sta. 10+00.00

-RPA- PC Sta. 12+48.21

-RPA- PT Sta. 14+01.95

-L- POT Sta. 22+03.27
-Y- POT Sta. 22+68.39

-L- PC Sta. 23+37.93

-L- PC Sta. 15+96.29

-L- PT Sta. 19+79.91

-RPD- PT Sta. 13+50.67

-RPD- PC Sta. 11+59.03

END CONSTRUCTION
-Y- POT Sta. 28+00.00

BEGIN CONSTRUCTION
-RPD- POT Sta. 11+00.00
-RPD- POT Sta. 10+00.00

MATCHLINE -L- STA 27+50.00 SEE SHEET NO. 5

-L-

PI Sta 12+02.97
Δ = 23° 58' 23.3" (LT)
D = 5° 59' 35.8"
L = 400.00'
T = 202.97'
R = 956.00'

PI Sta 17+91.56
Δ = 26° 23' 11.5" (LT)
D = 6° 52' 41.7"
L = 383.62'
T = 195.28'
R = 833.00'
SE = 06

PI Sta 26+07.96
Δ = 7° 43' 26.2" (LT)
D = 1° 25' 56.6"
L = 539.23'
T = 270.03'
R = 4,000.00'
SE = 03

UTILIZE FABRIC INSERT INLET PROTECTIONS IN LIEU OF ROCK INLET SEDIMENT TRAPS TYPE-C AS DIRECTED BY THE ENGINEER TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC

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.

PROJECT REFERENCE NO.	SHEET NO.
BP7.R001	EC-05/CONST.05
R/W SHEET NO.	

NAD 83/NA 2011

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

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

UTILIZE FABRIC INSERT INLET PROTECTIONS IN LIEU OF ROCK INLET SEDIMENT TRAPS TYPE-C AS DIRECTED BY THE ENGINEER TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC

MATCHLINE –L– STA 27+50.00 SEE SHEET NO. 4

BENAJA MT ZION HOLINESS CHURCH
DB 116 PG 1463
PB 9 PG 5

SHARON ENOCH-HESTER
WARREN ENOCH
DB 1308 PG 1529
PB 9 PG 5

WILLIAM E HOPKINS, ET AL
DB 1042 PG 276

GLADYS G. LOFTIS
DB 1130 PG 838

200' FULL RT

150' TAPER RT TURN

GRADE TO DRAIN

CLEAN OUT

REMOVE GR

GREU-TL3

TYPE III

EXIST

27' BST

N 10° 22' 37.8" W

50' TAPER LT & RT

400' TRANSITION LT & RT

SPECIAL DITCH SEE DETAIL 2

30+00

–L– PT Sta. 28+77.16

BEGIN PROJECT BP7.R001
–L– POT Sta. 32+50.00

–L–
PI Sta 26+07.96
Δ = 1° 43' 26.2" (LT)
D = 1° 25' 56.6"
L = 539.23'
T = 270.03'
R = 4,000.00'

N 37°59'56" E
94.39'

N 55°39'52" E
171.24'

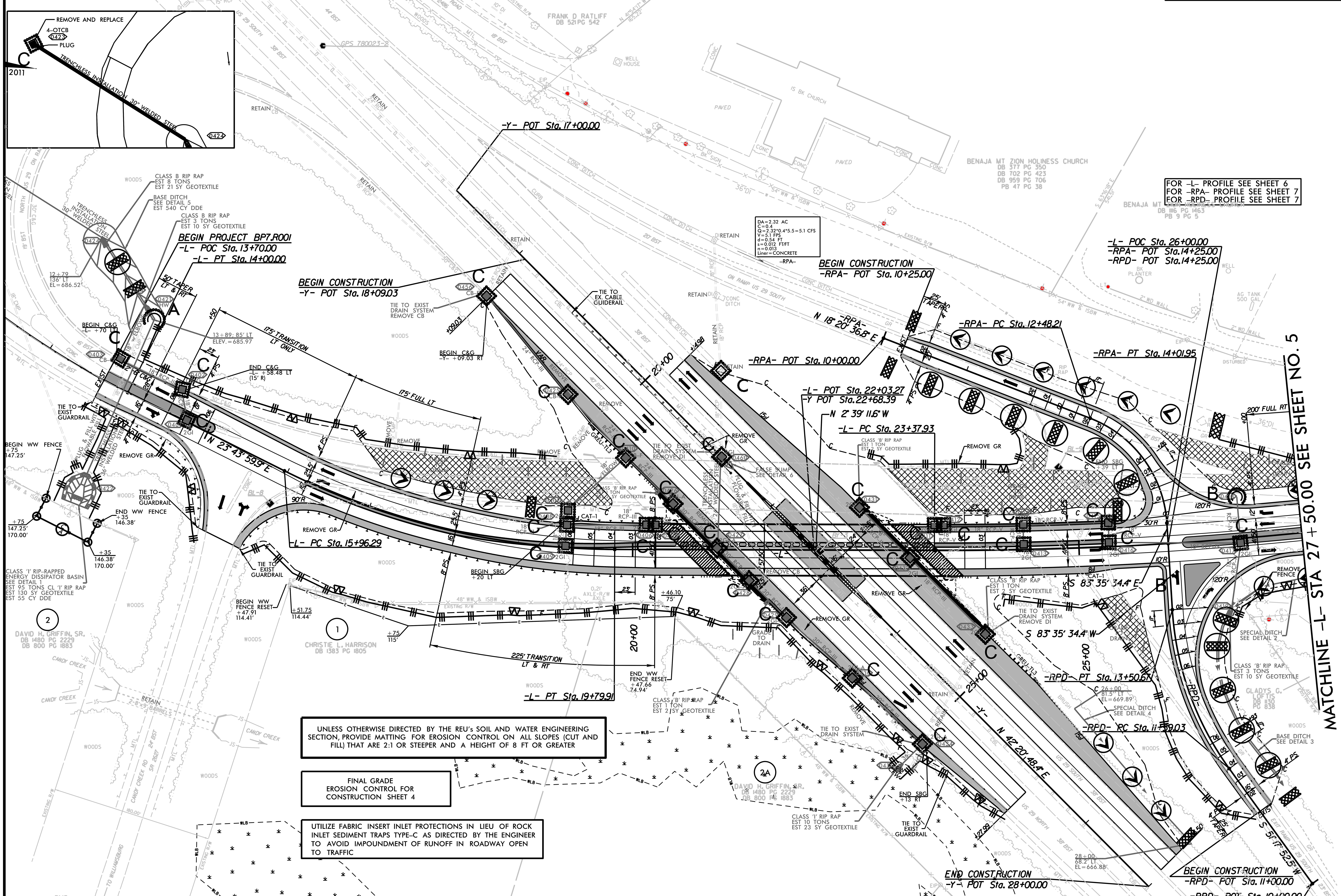
N 05°04'27" W
36.76'

BL-11

TO REIDSVILLE

FOR –L– PROFILE SEE SHEET 6

PROJECT REFERENCE NO.	SHEET NO.
BP7.R001	EC-06/CONST.04
R/W SHEET NO.	



UNLESS OTHERWISE DIRECTED BY THE REU's SOIL AND WATER ENGINEERING SECTION, PROVIDE MATTING FOR EROSION CONTROL ON ALL SLOPES (CUT AND FILL) THAT ARE 2:1 OR STEEPER AND A HEIGHT OF 8 FT OR GREATER

FINAL GRADE EROSION CONTROL FOR CONSTRUCTION SHEET 4

UTILIZE FABRIC INSERT INLET PROTECTIONS IN LIEU OF ROCK INLET SEDIMENT TRAPS TYPE-C AS DIRECTED BY THE ENGINEER TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC

PROJECT REFERENCE NO.	SHEET NO.
BP7R001	EC-07/CONST.05
R/W SHEET NO.	

FINAL GRADE
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

UTILIZE FABRIC INSERT INLET PROTECTIONS IN LIEU OF ROCK INLET SEDIMENT TRAPS TYPE-C AS DIRECTED BY THE ENGINEER TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC

UNLESS OTHERWISE DIRECTED BY THE REU's SOIL AND WATER ENGINEERING SECTION, PROVIDE MATTING FOR EROSION CONTROL ON ALL SLOPES (CUT AND FILL) THAT ARE 2:1 OR STEEPER AND A HEIGHT OF 8 FT OR GREATER