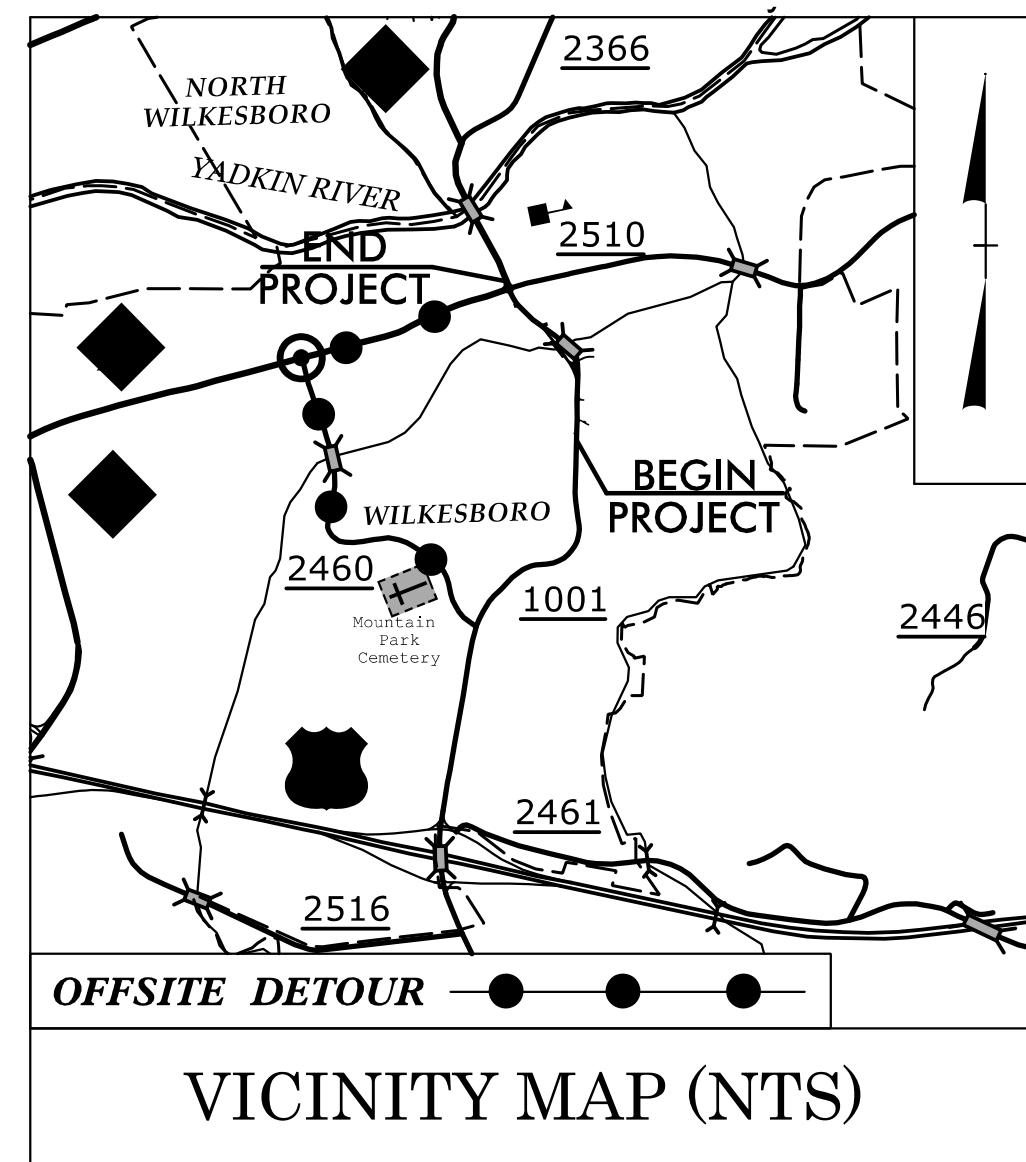


TIP PROJECT: B-4676A



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

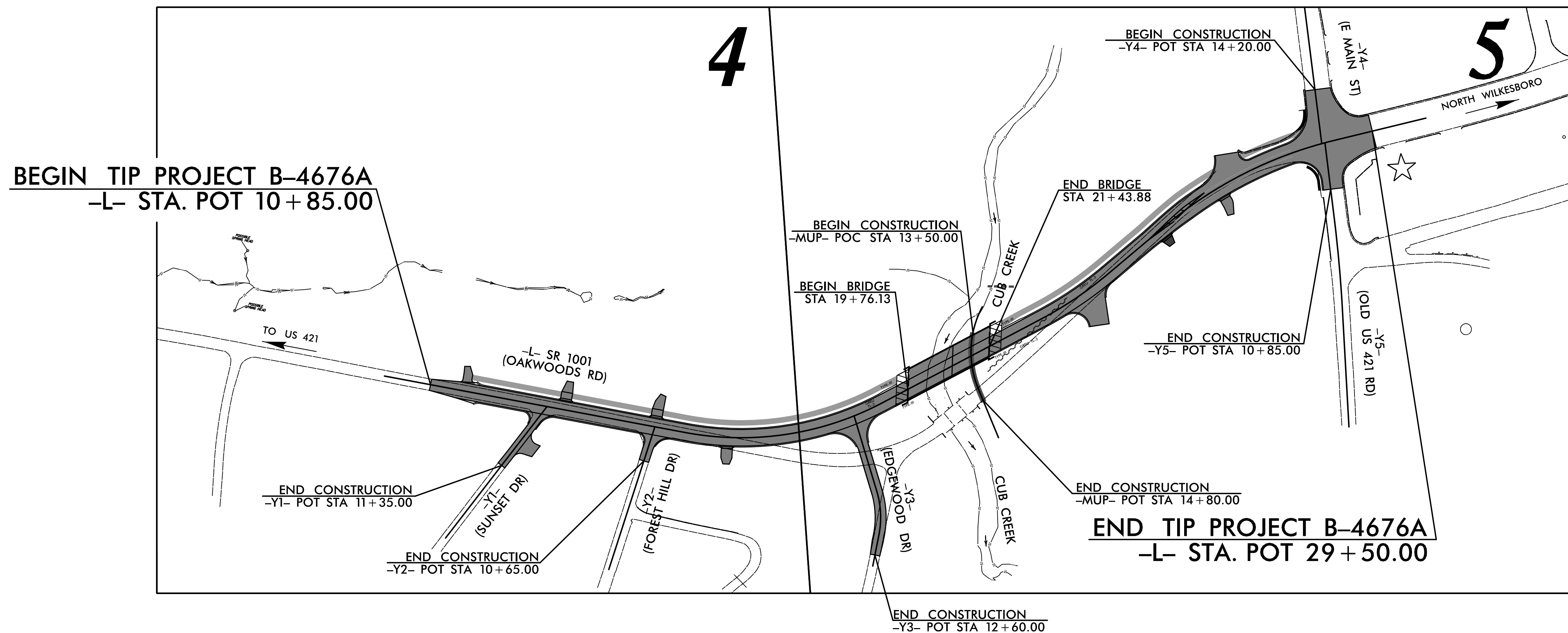
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

WILKES COUNTY

LOCATION: BRIDGE #960029 OVER CUB CREEK ON SR 1001 (OAKWOODS RD)

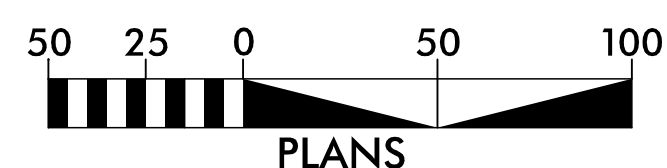
TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNALS, AND STRUCTURE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4676A	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33831.1.2	3383101	PE	
33831.2.4	3383101	ROW	
33831.2.5	3383101	UTILITIES	
33831.3.3	3383101	CONSTRUCTION	



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

GRAPHIC SCALE



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

HNTB

HNTB

Prepared in the Office of:
HNTB NORTH CAROLINA, P.C.
4000 Center at North Hills St,
Suite 500
Raleigh, North Carolina 27609
NC License No: C-1554

Designed by:

NATALIE CHAN, P.E.
NAME

3444
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

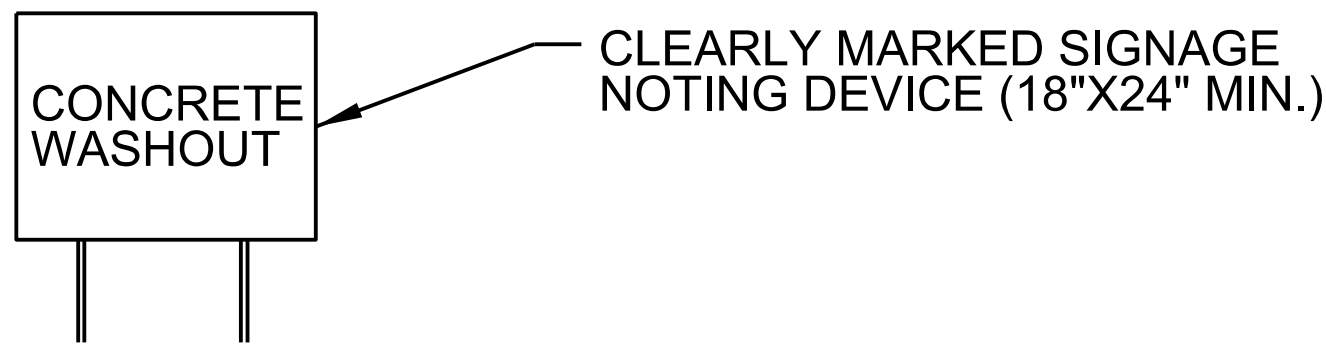
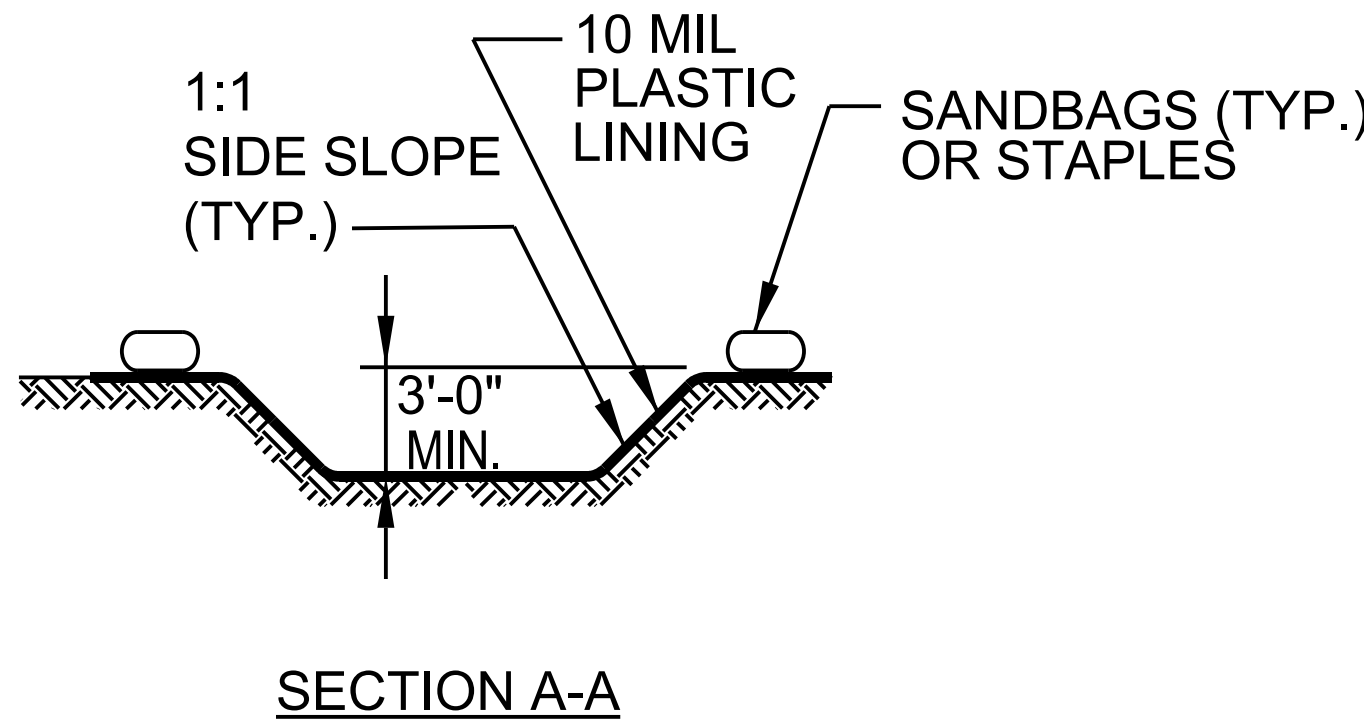
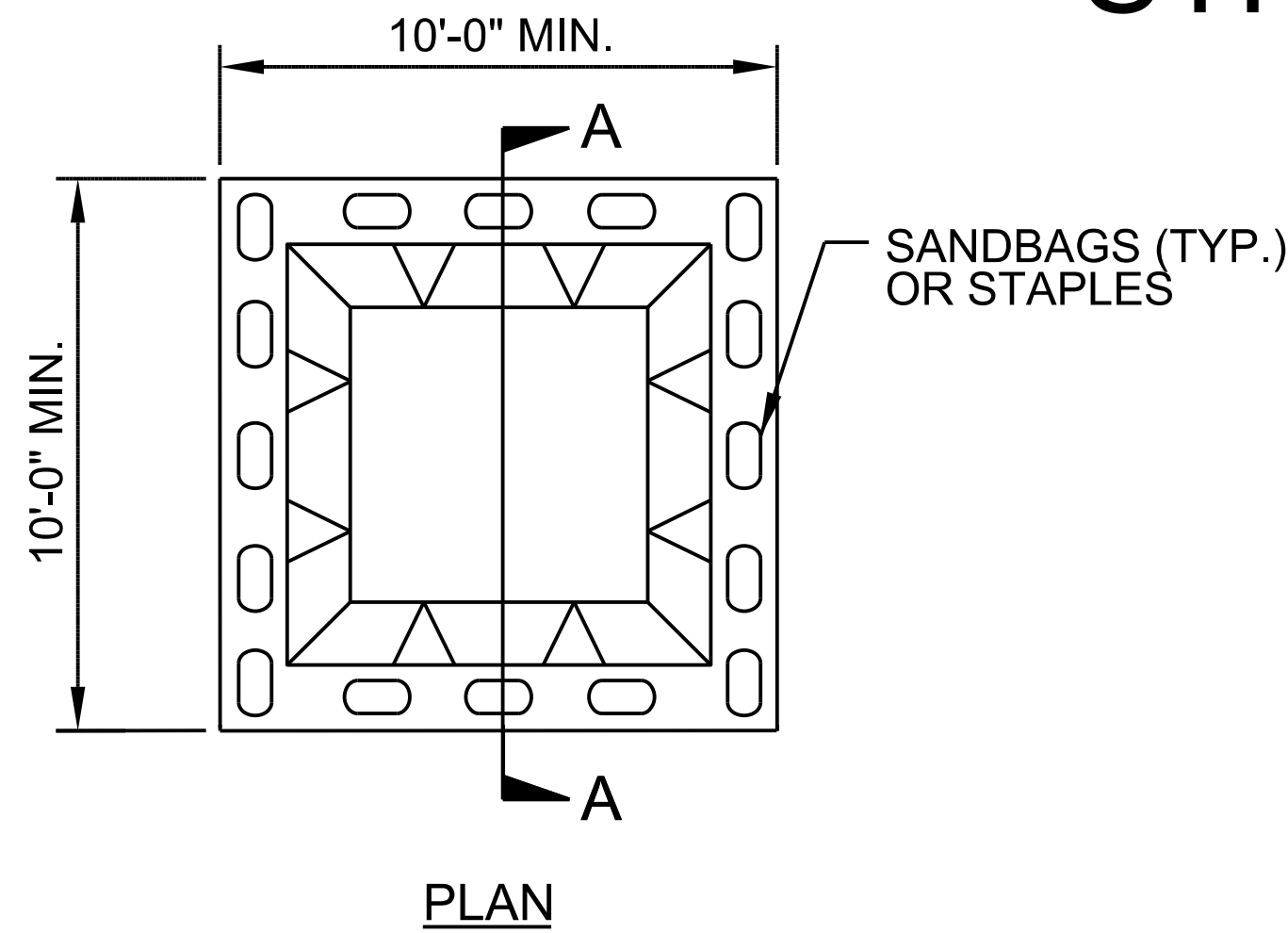
PROJECT REFERENCE NO.	SHEET NO.
B-4676A	EC-2
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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				
1632.02	Type B		1636.03	Excelsior Wattle Barrier	
1632.03	Type C		1636.03	Coir Fiber Wattle Barrier	

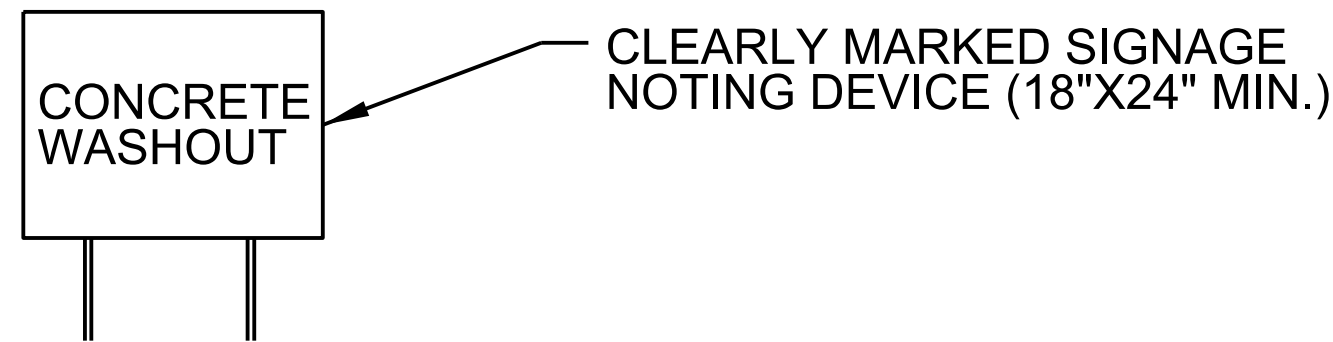
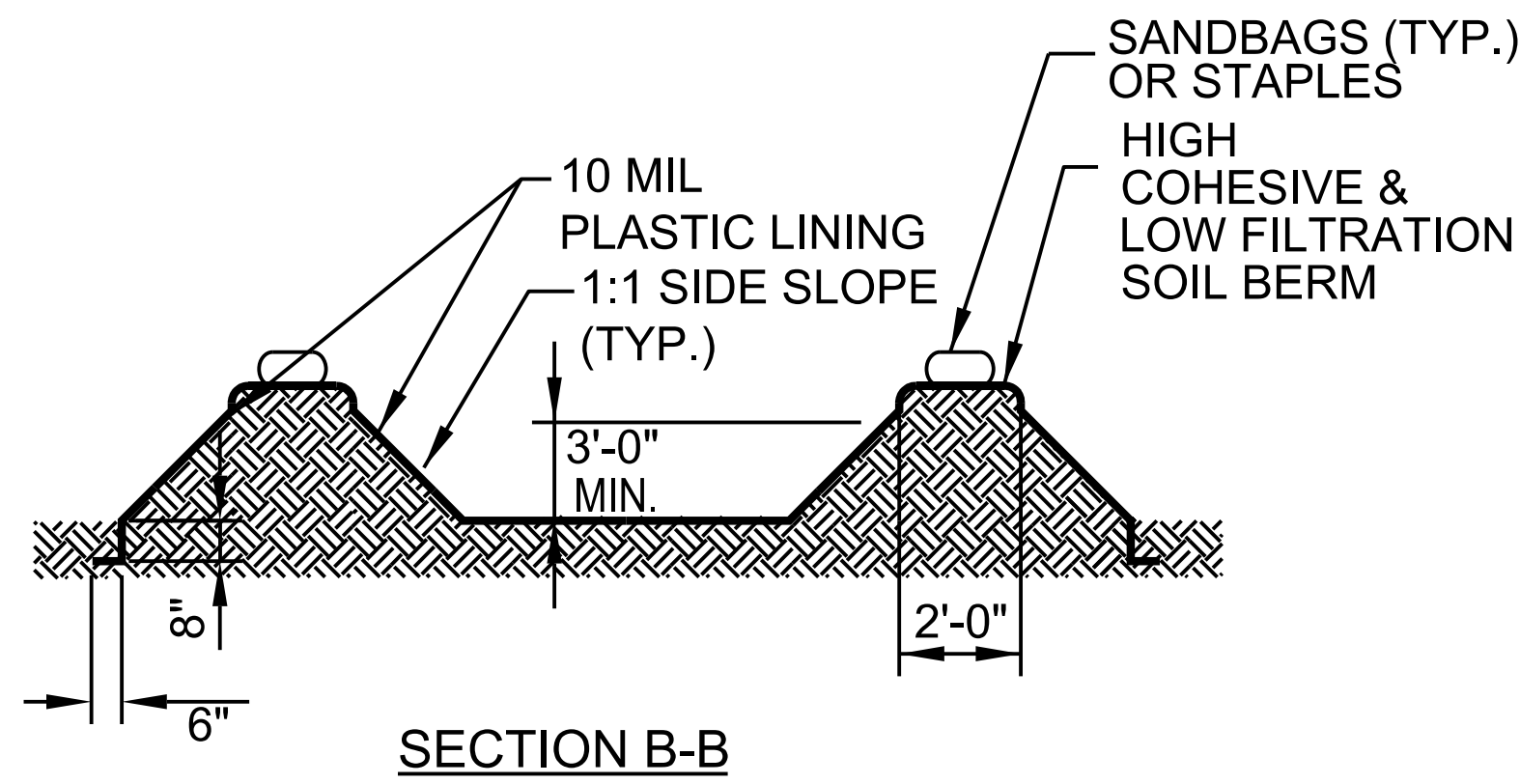
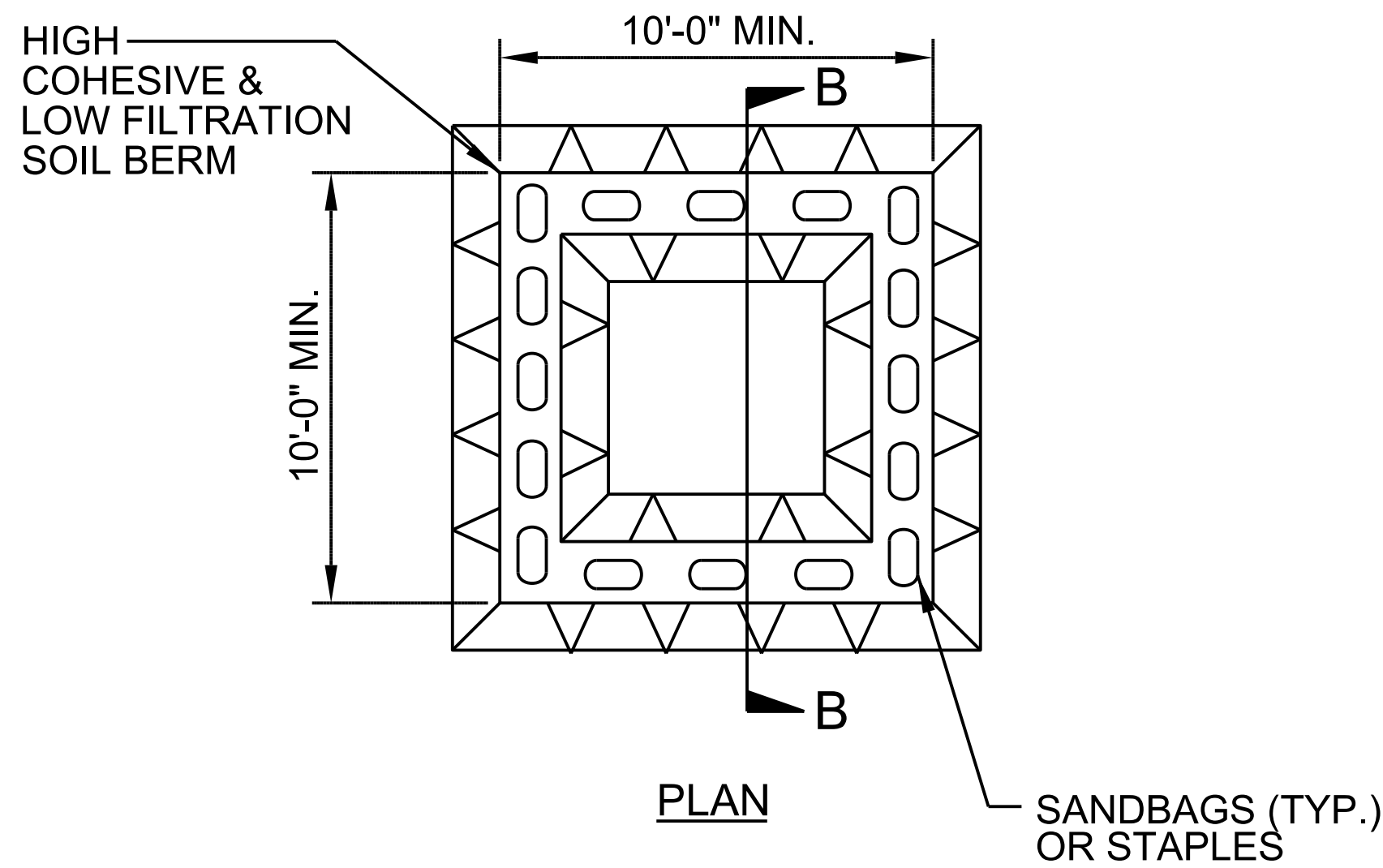
PROJECT REFERENCE NO.	SHEET NO.
B-4676A	EC-2A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



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

SHEET NO.

EC-3

HYDRAULICS
ENGINEER

SOIL STABILIZATION SUMMARY SHEET

STRAW MATTING IN DITCHLINE FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
5	L	21+00	22+00	RT	80
5	Y3	10-75	12+00	LT	100
5	L	19+25	19+92	RT	55
STRAW MATTING IN DITCHLINE SUBTOTAL					235

EXCELSIOR MATTING IN DITCHLINE FOR EROSION CONTROL

[illegible]

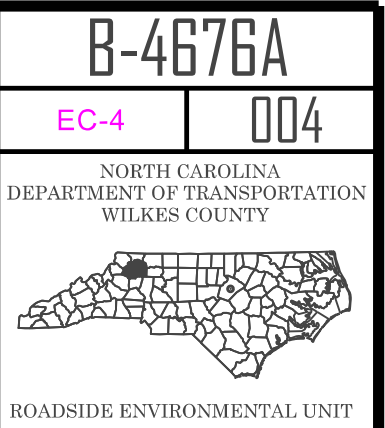
STRAW MATTING ON SLOPE FOR EROSION CONTROL

[illegible]

PROJECT REFERENCE NO.	SHEET NO.
B-4676A	EC-3A
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



PREPARED BY

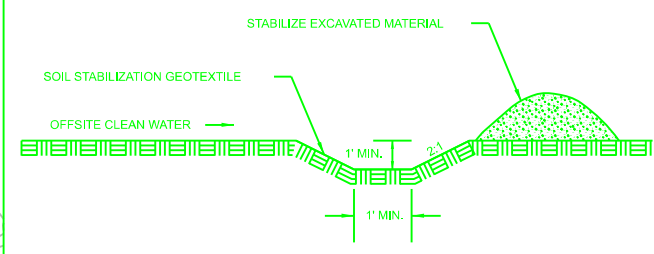
HNTB

HNTB NORTH CAROLINA, P.C.
4000 Cst. at North Hills St.
Suite 500
Raleigh, North Carolina 27609
NC License No: C-1554

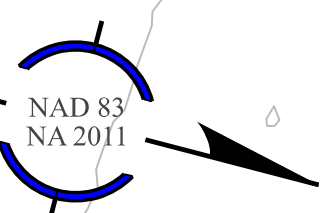
REVISIONS

CLEAN WATER DIVERSION

CWD CWD CWD CWD CWD
(Not to Scale)



NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN LIEU OF
ROCK INLET SEDIMENT TRAP, TYPE-C AS DIRECTED TO AVOID
IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.



APPROXIMATE LOCATION OF EXPOSED
PVC UTILITY PIPES OF UNKNOWN USE.
CONTRACTOR TO FIELD VERIFY LOCATION AND
PROTECT UTILITY IF IN CONFLICT WITH
RIP RAP EMBANKMENT PROTECTION.

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

B-4676A

EC-5 005

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WILKES COUNTY



ROADSIDE ENVIRONMENTAL UNIT

PREPARED BY

HNTB

DATE: 08/14/2018
BY: J. H. HNTB
CHECKED: J. H. HNTB
APPROVED: J. H. HNTB

REVISIONS

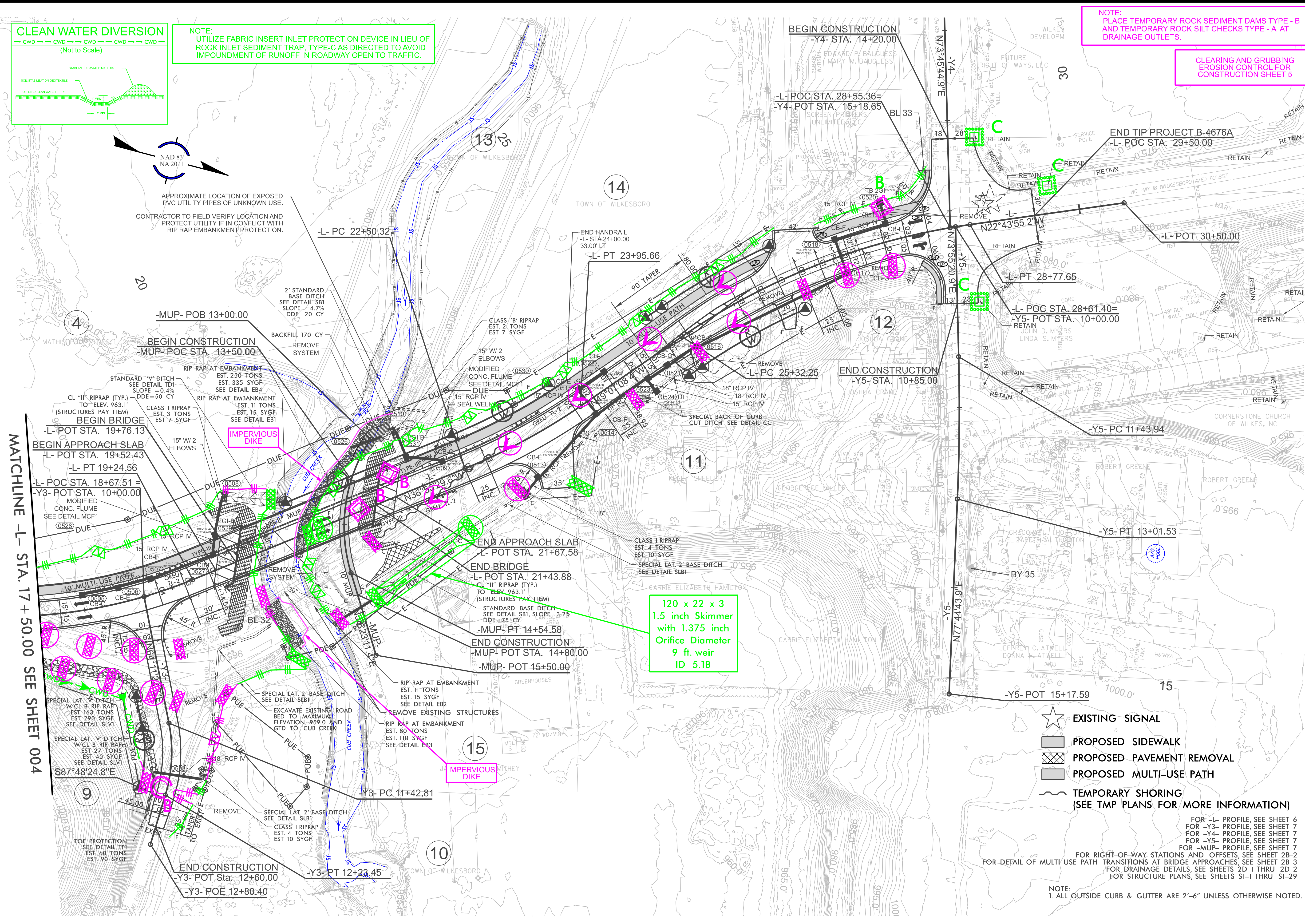
MATCHLINE -L- STA. 17+50.00 SEE SHEET 004

- ★ EXISTING SIGNAL
- PROPOSED SIDEWALK
- PROPOSED PAVEMENT REMOVAL
- PROPOSED MULTI-USE PATH
- TEMPORARY SHORING
(SEE TMP PLANS FOR MORE INFORMATION)

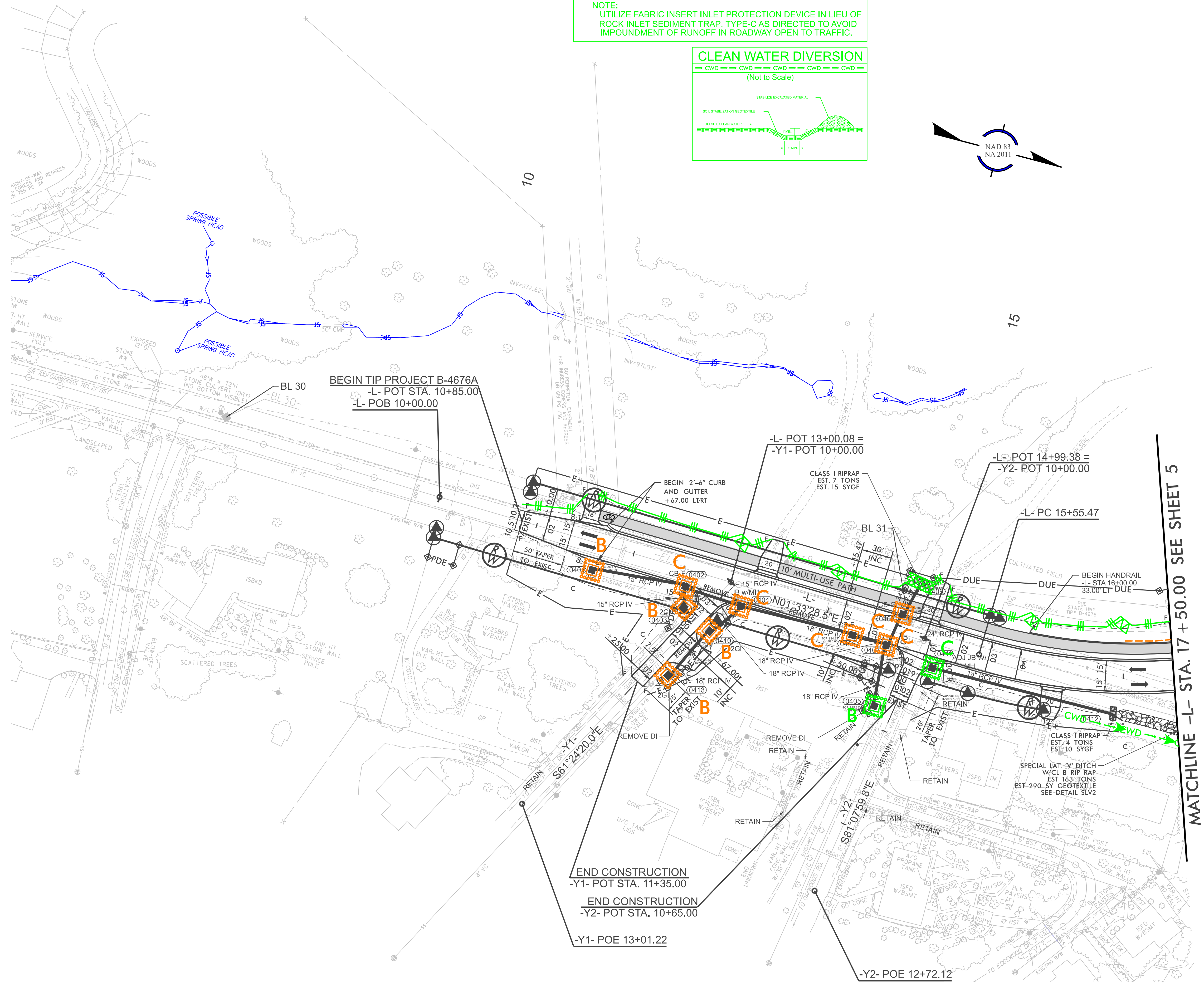
FOR -L- PROFILE, SEE SHEET 6
FOR -Y3- PROFILE, SEE SHEET 7
FOR -Y4- PROFILE, SEE SHEET 7
FOR -Y5- PROFILE, SEE SHEET 7
FOR -MUP- PROFILE, SEE SHEET 7
FOR RIGHT-OF-WAY STATIONS AND OFFSETS, SEE SHEET 28-2
FOR DETAIL OF MULTI-USE PATH TRANSITIONS AT BRIDGE APPROACHES, SEE SHEET 28-3
FOR DRAINAGE DETAILS, SEE SHEETS 2D-1 THRU 2D-2
FOR STRUCTURE PLANS, SEE SHEETS 51-1 THRU 51-29

NOTE:
1. ALL OUTSIDE CURB & GUTTER ARE 2'-6" UNLESS OTHERWISE NOTED.

120 x 22 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
9 ft. weir
ID 5.1B



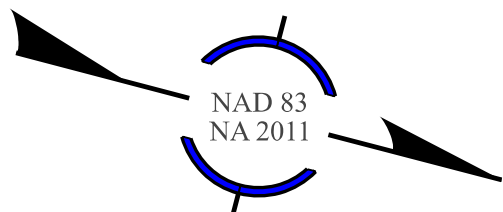
NAD 83
NA 2011



20.22
F
MATCHLINE -L- STA. 17 + 50.00 SEE SHEET 5

ANOTĂTĂRI

The diagram illustrates a cross-section of a stabilized earth embankment. On the left, a horizontal line represents the ground surface, labeled "OFFSITE CLEAN WATER". Below this line is a layer of "SOIL STABILIZATION GEOTEXTILE", depicted as a series of horizontal bars. Above the geotextile, a layer of "STABILIZED EXCAVATED MATERIAL" is shown, represented by a stippled pattern. The embankment rises to the right, with a slope angle of $\phi = 1$ indicated. The base of the embankment is marked with dimensions: "1' MIN" for the width of the base and "1' MIN" for the width of the toe.



APPROXIMATE LOCATION OF EXPOSED
PVC UTILITY PIPES OF UNKNOWN USE.

CONTRACTOR TO FIELD VERIFY LOCATION AND
PROTECT UTILITY IF IN CONFLICT WITH
RIP RAP EMBANKMENT PROTECTION.

-L- PC 22+50.32

END HANDRAIL
-L- STA 24+00.00
33.00' LT
-L- PT 23+95.66

-L- PT 23+95.66

BEGIN CONSTRUCTION
-Y4- STA. 14+20.00

-L- POC STA. 28+55.36=
-Y4- POT STA. 15+18.65

END TIP PROJECT B-4676A
-L- POC STA. 29+50.00

STA. 29+50.00

~~L-POT 30+50.00~~

-L- PT 28+77.65

-L- POC STA. 28+61.40=
-Y5- POT STA. 10+00.00
RETAIN

Y5- PC 11+43.94

-Y5- PT 13+01.53

-Y5- POT 15+17.59

★ EXISTING SIGNAL

PROPOSED SIDEWALK

 PROPOSED PAVEMENT REMOVAL

PROPOSED MULTI-USE PATH

TEMPORARY SHORING
(SEE TMP PLANS FOR MORE INFORMATION)

FOR -L- PROFILE, SEE SHEET 6
FOR -Y3- PROFILE, SEE SHEET 6
FOR -Y4- PROFILE, SEE SHEET 7
FOR -Y5- PROFILE, SEE SHEET 7
FOR -MUP- PROFILE, SEE SHEET 7
IONS AND OFFSETS, SEE SHEET 2B-2
RIDGE APPROACHES, SEE SHEET 2B-3
DETAILS, SEE SHEETS 2D-1 THRU 2D-2
PLANS, SEE SHEETS S1-1 THRU S1-29

NOTE:
1. ALL OUTSIDE CURB & GUTTER ARE 2'-6" UNLESS OTHERWISE NOTED.

B-4676A

EC-7	005
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NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
WILKES COUNTY



ROADSIDE ENVIRONMENTAL UNIT

PREPARED BY



REVISIONS