

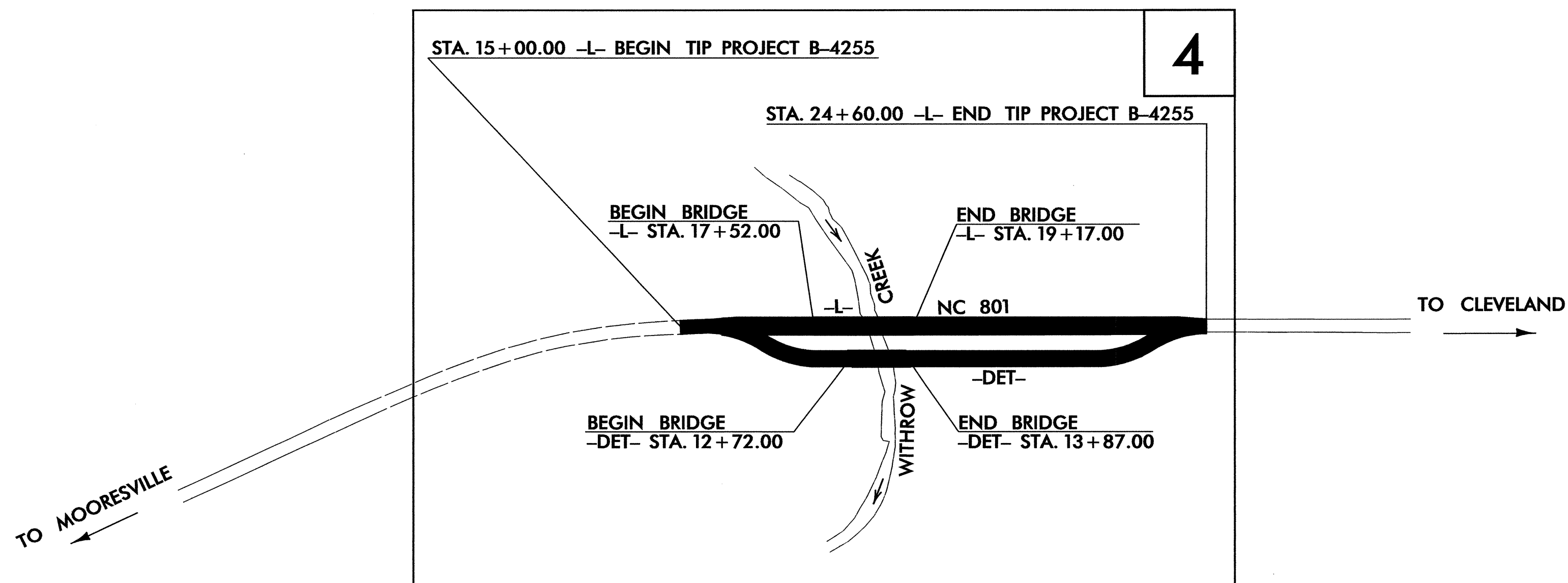
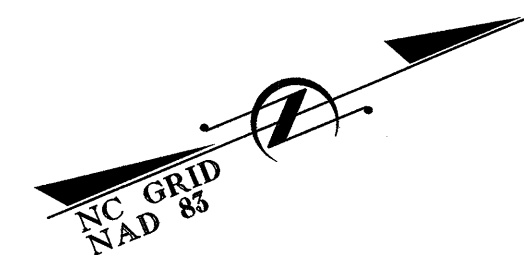
TIP PROJECT: B-4255

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

ROWAN COUNTY

LOCATION: BRIDGE NO. 28 OVER WITHROW CREEK
 ON NC 801

TYPE OF WORK: GRADING, PAVING, DRAINAGE AND STRUCTURE



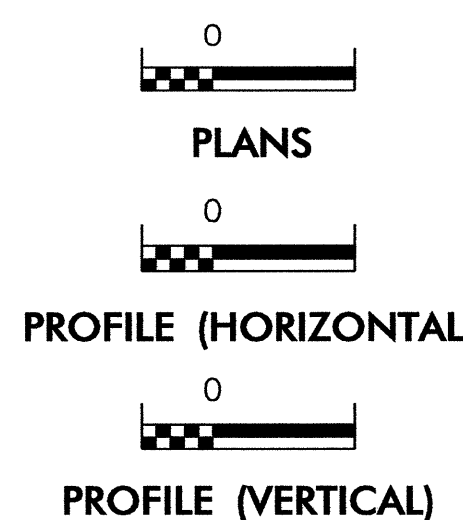
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4255	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Streambank Reforestation	
1630.05	Temporary Silt Ditch	
1605.01	Temporary Diversion	
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.01	Riser Basin	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
1633.01	Temporary Rock Silt Check Type-B	
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	
1635.02	Rock Pipe Inlet Sediment Trap Type-B	
1630.04	Stilling Basin	
Rock Inlet Sediment Trap:		
1632.01	Type A	OR
1632.02	Type B	OR
1632.03	Type C	OR

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

GRAPHIC SCALE



ROADSIDE ENVIRONMENTAL UNIT
 DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA

Prepared In the Office of:
ROADSIDE ENVIRONMENTAL UNIT
 1 South Wilmington St.
 Raleigh, NC 27611
2006 STANDARD SPECIFICATIONS

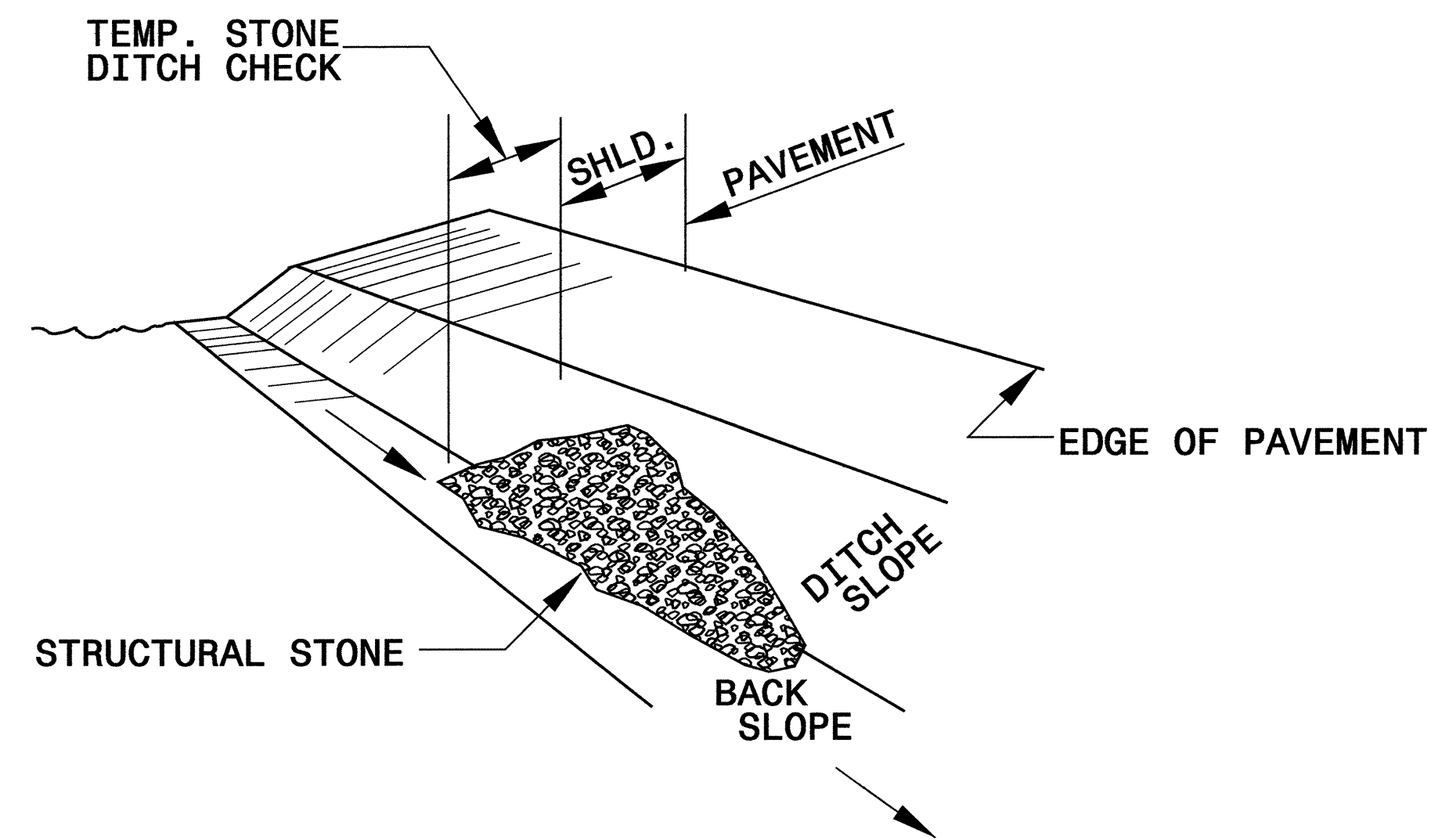
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence	1630.06 Special Stilling Basin
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	1634.01 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	

PROJECT REFERENCE NO. <i>B-4255</i>	SHEET NO. <i>EC-2</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

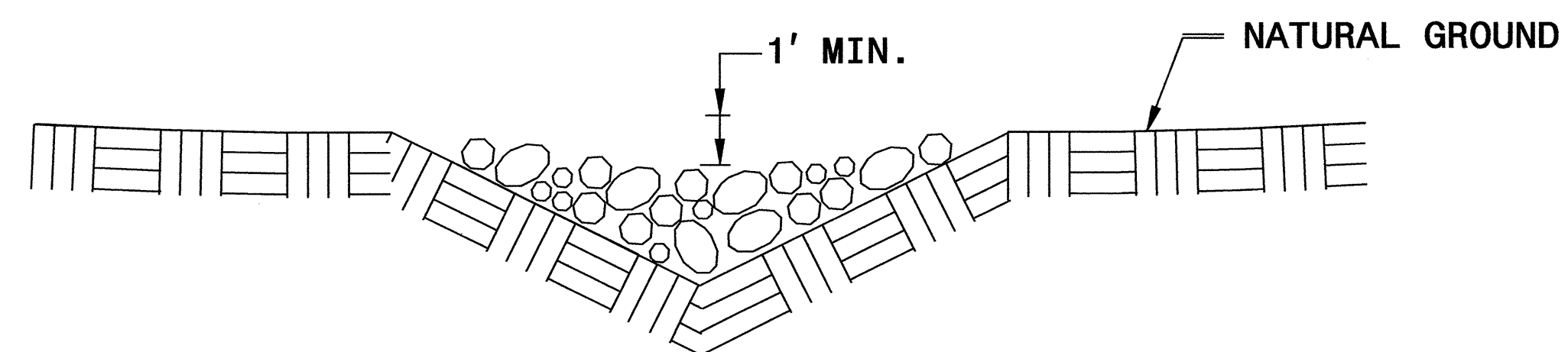


ISOMETRIC VIEW

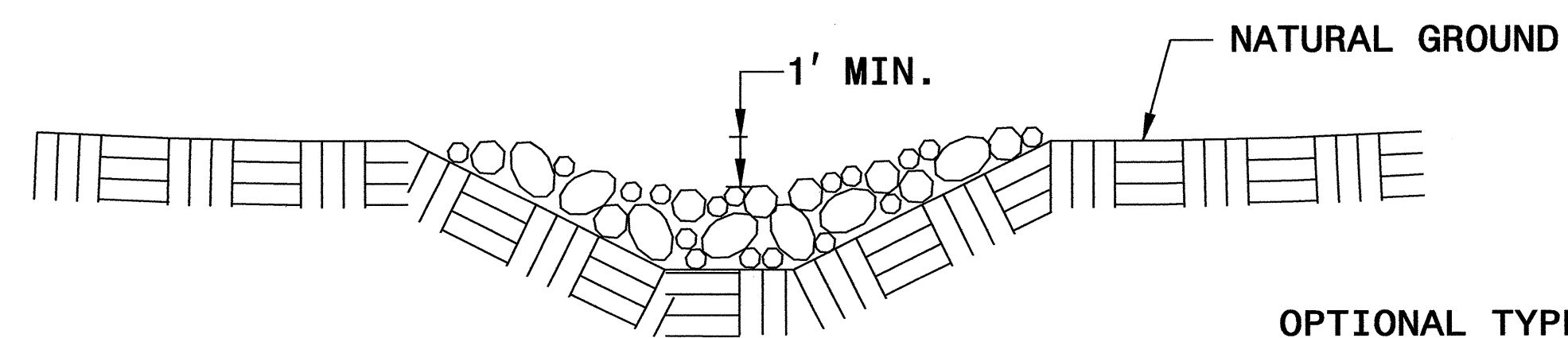
NOTES:

USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.

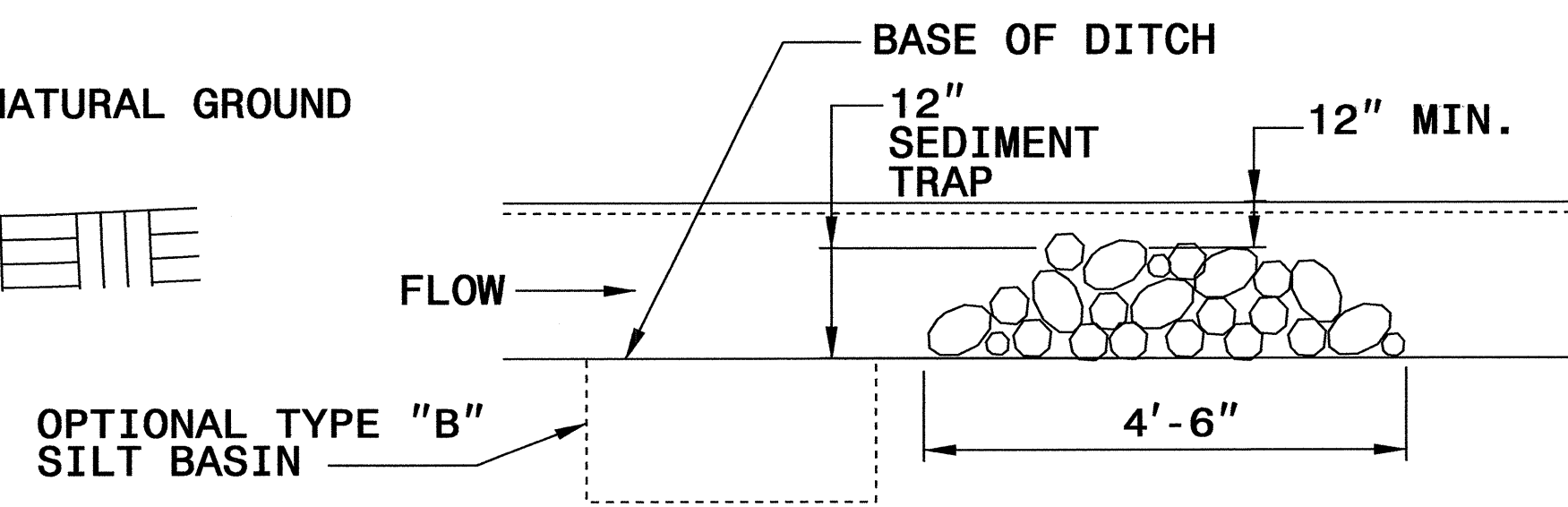
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



**CROSS SECTION
VEE DITCH**



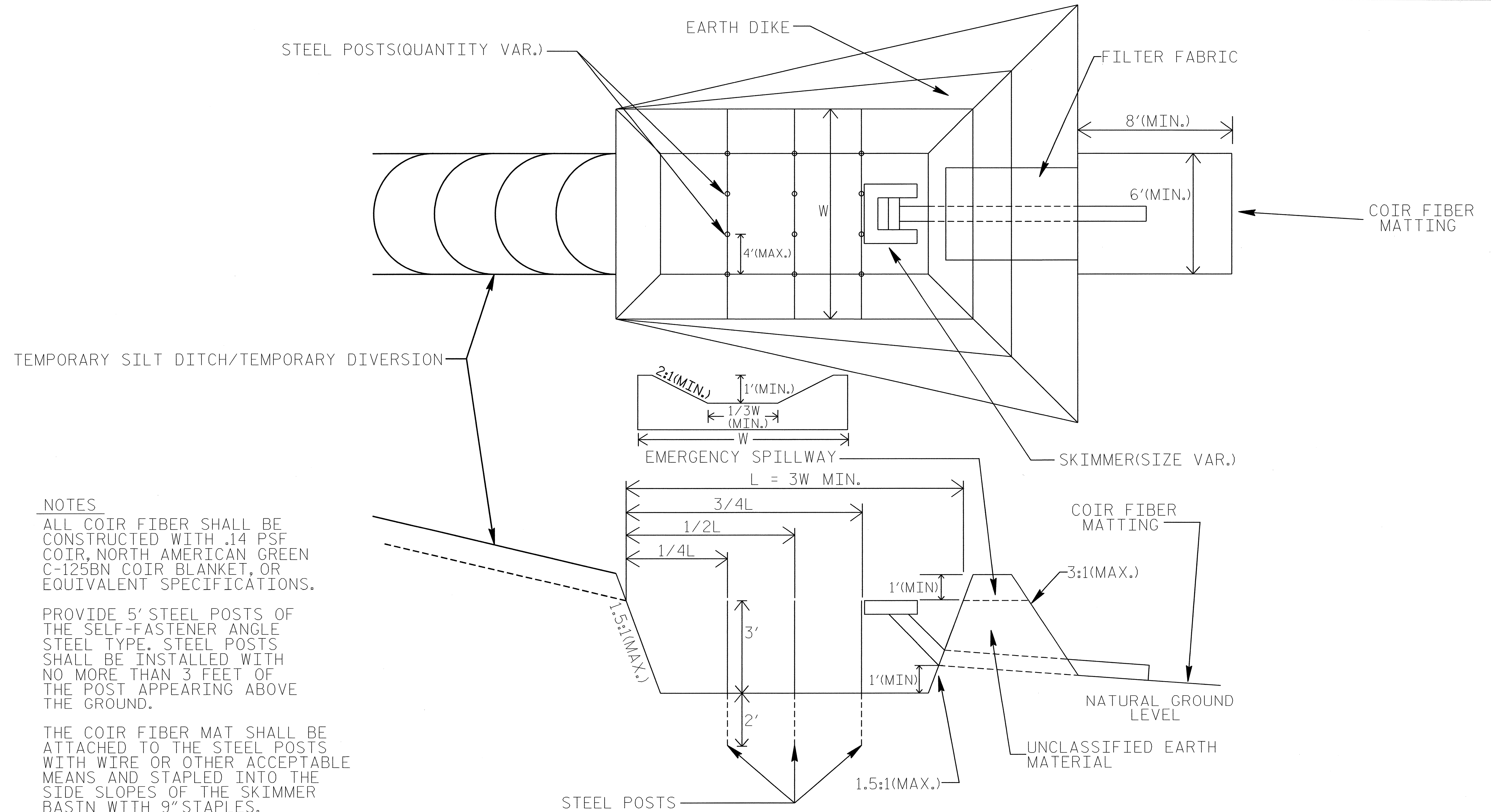
**CROSS SECTION
TRAPEZOIDAL DITCH**



ELEVATION VIEW

PROJECT REFERENCE NO. B-4255	SHEET NO. EC-2A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SKIMMER BASIN WITH BAFFLES DETAIL



NOTES

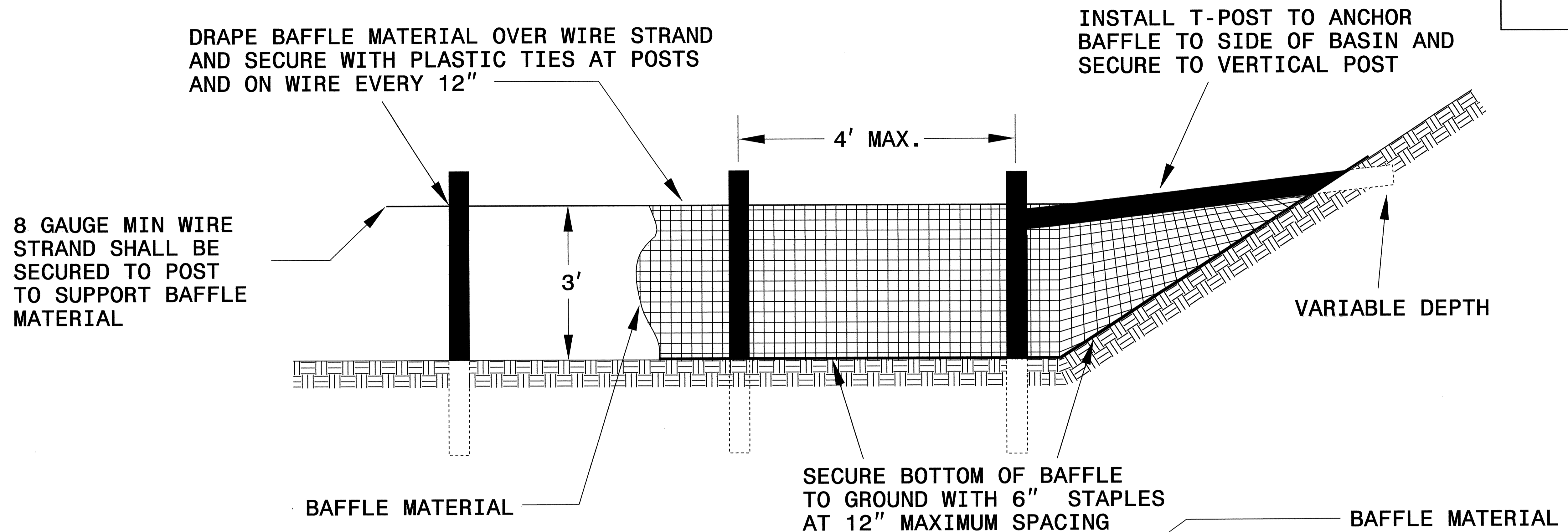
ALL COIR FIBER SHALL BE CONSTRUCTED WITH .14 PSF COIR, NORTH AMERICAN GREEN C-125BN COIR BLANKET, OR EQUIVALENT SPECIFICATIONS.

PROVIDE 5' STEEL POSTS OF THE SELF-FASTENER ANGLE STEEL TYPE. STEEL POSTS SHALL BE INSTALLED WITH NO MORE THAN 3 FEET OF THE POST APPEARING ABOVE THE GROUND.

THE COIR FIBER MAT SHALL BE ATTACHED TO THE STEEL POSTS WITH WIRE OR OTHER ACCEPTABLE MEANS AND STAPLED INTO THE SIDE SLOPES OF THE SKIMMER BASIN WITH 9" STAPLES.

PROJECT REFERENCE NO. B-4255	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY SEDIMENT BAFFLE DETAIL



NOTES:

WIRE STRAND SUPPORT SHALL BE 8 GAUGE MINIMUM WIRE.

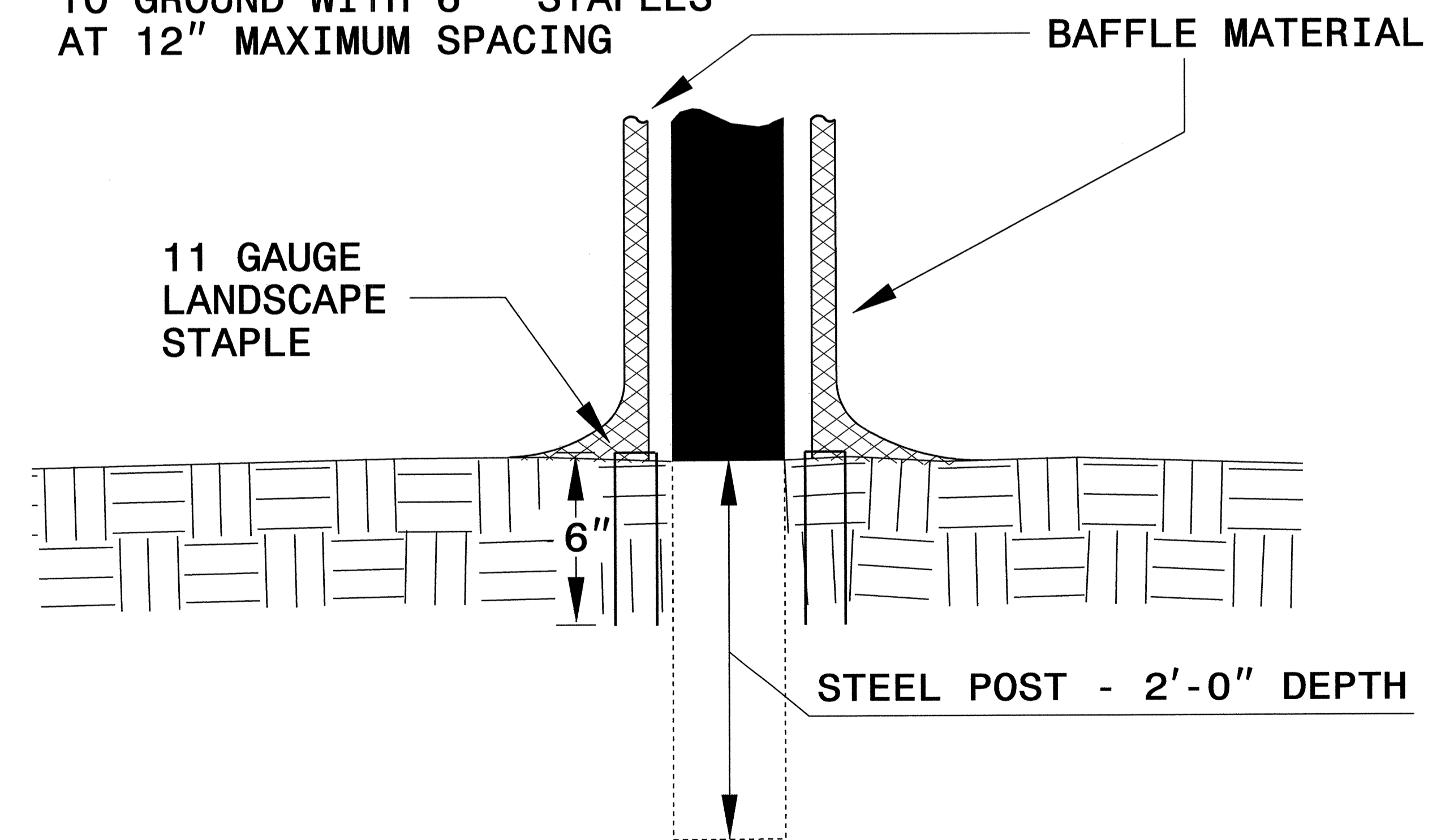
STEEL POST SHALL BE 5'-0" MIN. IN HEIGHT AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.

BAFFLE MATERIAL SHALL BE WOVEN COIR FIBER WITH .14 PSF COIR, NORTH AMERICAN GREEN C-125BN COIR BLANKET OR EQUIVALENT MATERIAL SPECIFIED BY THE ENGINEER.

BAFFLE MATERIAL SHALL BE A MINIMUM OF 6' IN WIDTH DRAPED AND SHALL BE FASTENED ADEQUATELY TO THE WIRE AND SUPPORTS WITH PLASTIC TIES OR AS DIRECTED BY THE ENGINEER.

BAFFLES SHALL BE 3' IN HEIGHT OR AS DIRECTED BY THE ENGINEER.

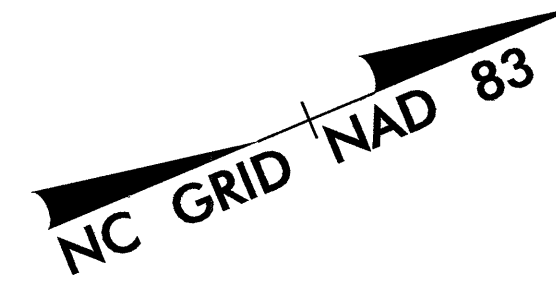
BAFFLE MATERIAL SHALL BE SECURED WITH 6" LANDSCAPE STAPLES AT THE BOTTOM AND SIDES OF THE BASIN AT 12" MAXIMUM SPACING.



BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 6" LANDSCAPE STAPLES

-DET-

PI Sta 10+54.95 Δ = 33° 05' 08.0" (RT) D = 30' 58' 14.5" L = 106.83' T = 54.95' R = 185.00' SE = 06 DS = 25 mph	PI Sta 11+61.78 Δ = 33° 05' 08.0" (LT) D = 30' 58' 14.5" L = 106.83' T = 54.95' R = 185.00' SE = 06 DS = 25 mph	PI Sta 17+74.64 Δ = 33° 05' 07.8" (LT) D = 30' 58' 14.5" L = 106.83' T = 54.95' R = 185.00' SE = 06 DS = 25 mph	PI Sta 18+81.47 Δ = 33° 05' 07.8" (RT) D = 30' 58' 14.5" L = 106.83' T = 54.95' R = 185.00' SE = 06 DS = 25 mph
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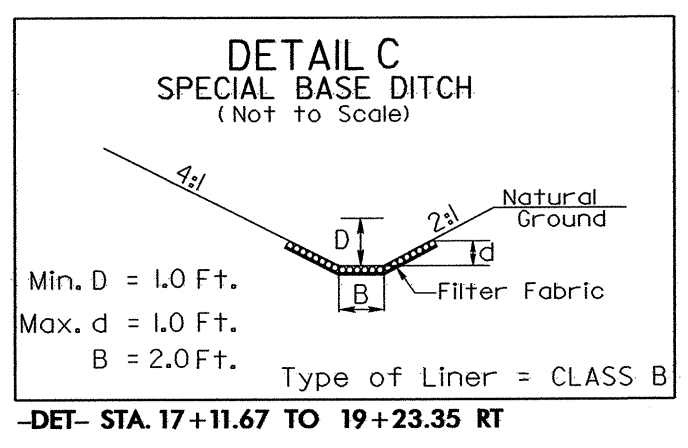
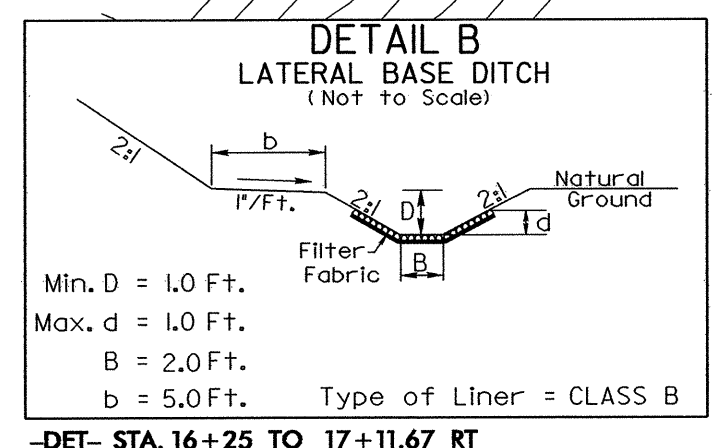
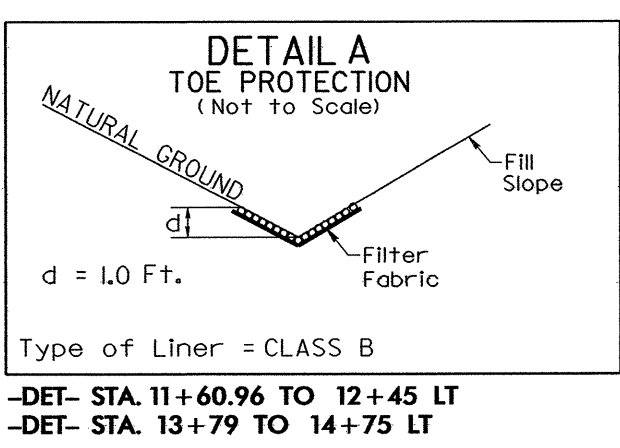
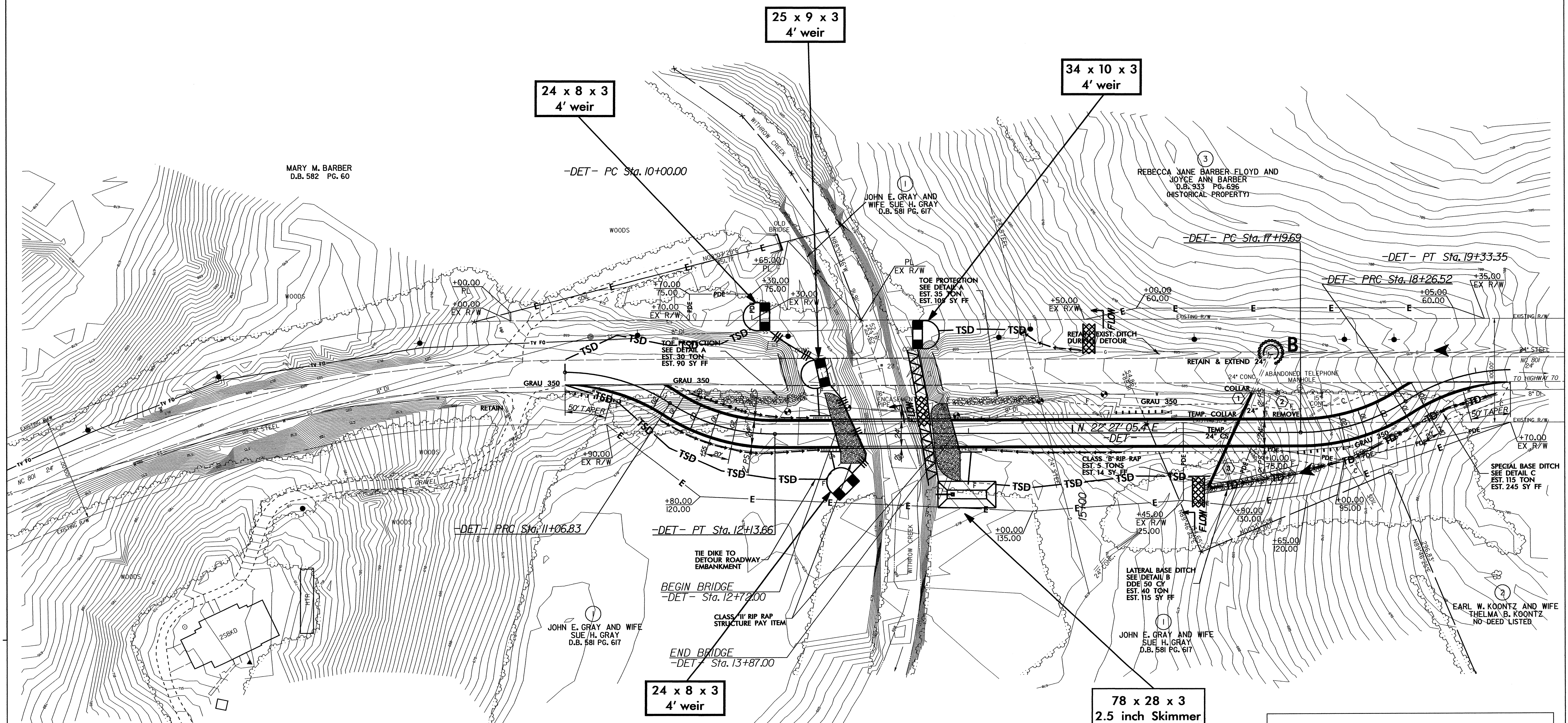


PROJECT REFERENCE NO. B-4255		SHEET NO. EC-3/CONST.2B	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

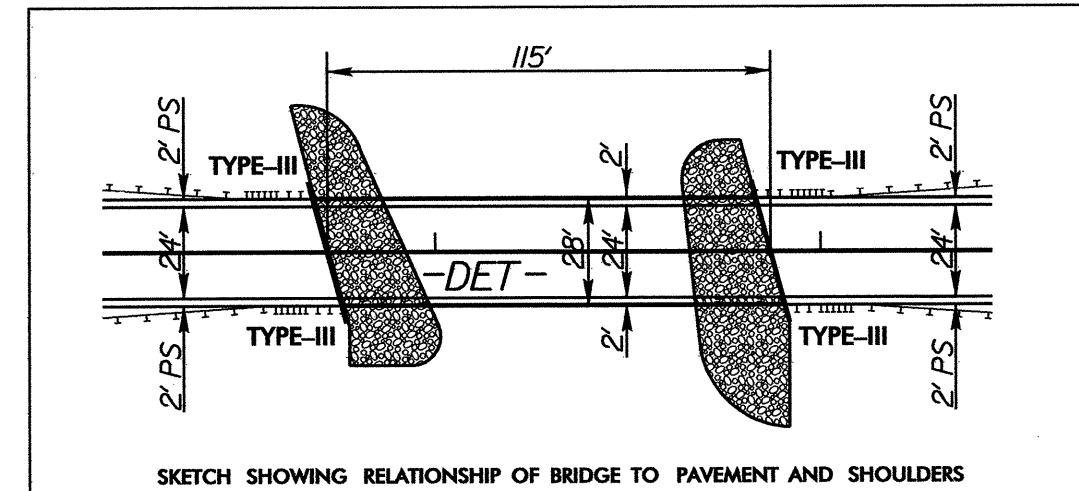
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

NOTE:
UTILIZE SPECIAL STILLING BASIN AS NEEDED DURING BRIDGE CONSTRUCTION.

FOR -DET- PROFILE SEE SHEET 5



78 x 28 x 3
2.5 inch Skimmer
with 2.0 inch
Orifice Diameter
12 ft. weir



8-TIME
8-FILE

-L-
 PI Sta. 12+79.05
 $\Delta = 23^{\circ} 52' 24.3" (RT)$
 $D = 4' 20" 26.1"$
 $L = 550.00'$
 $T = 279.05'$
 $R = 1,320.00'$
 $SE = 08$
 $DS = 60 \text{ mph}$

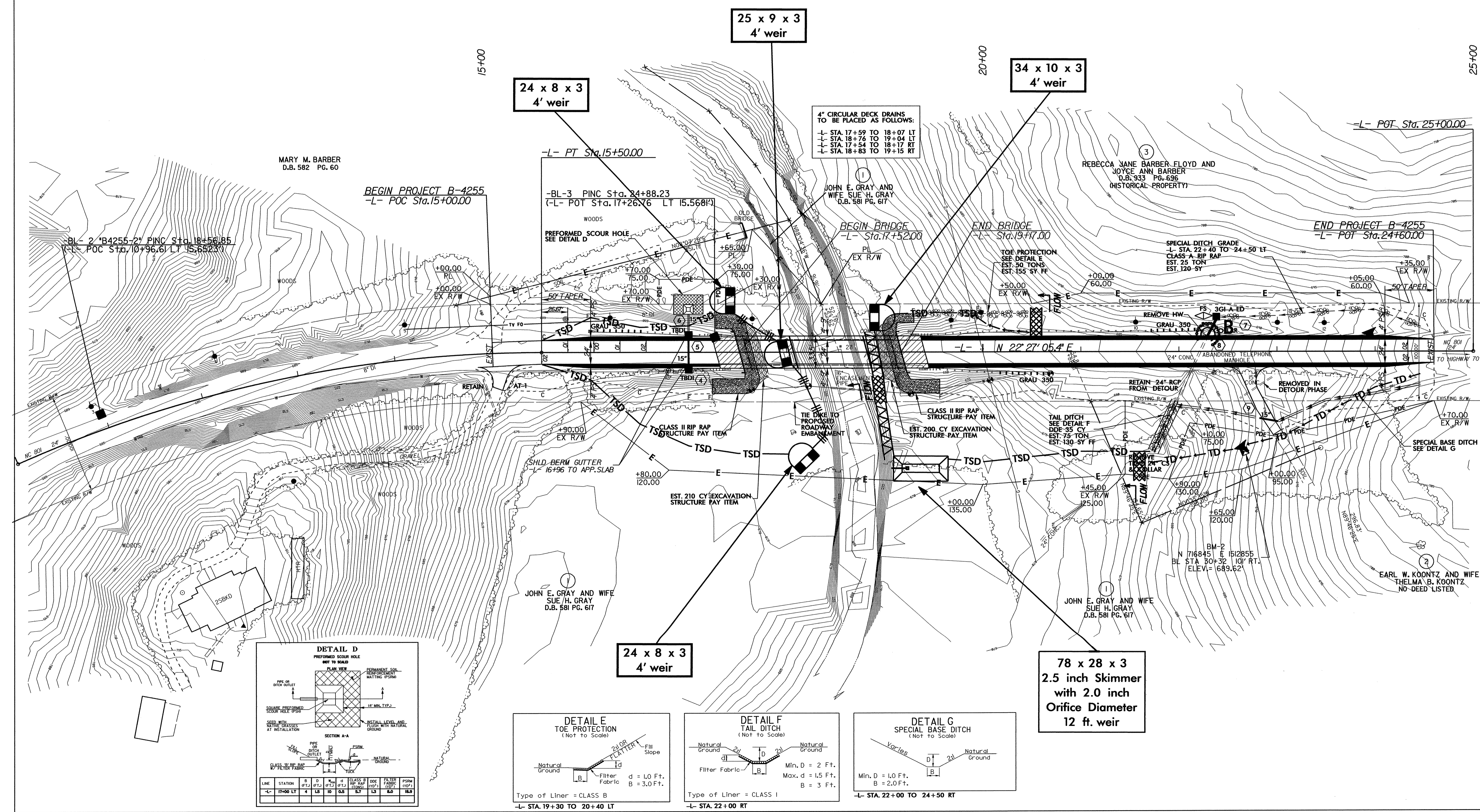
NC GRID NAD 83

PROJECT REFERENCE NO. B-4255		SHEET NO. EC-4/CONST.4	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

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

NOTE:
 UTILIZE SPECIAL STILLING BASIN AS NEEDED DURING BRIDGE CONSTRUCTION.

FOR -L- PROFILE SEE SHEET 5



MARY M. BARBER
 D.B. 582 PG. 60

REBECCA JANE BARBER FLOYD AND
 JOYCE ANN BARBER
 D.B. 933 PG. 696
 (HISTORICAL PROPERTY)

-BL-3 PINC Sta. 24+88.23
 (-L- POT Sta. 17+26.76 LT 15.5681)

JOHN E. GRAY AND
 WIFE SUE H. GRAY
 D.B. 581 PG. 617

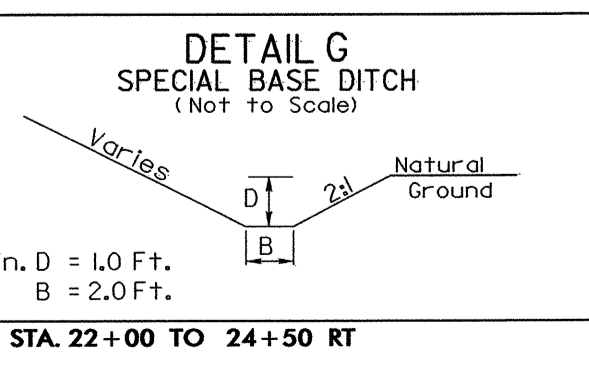
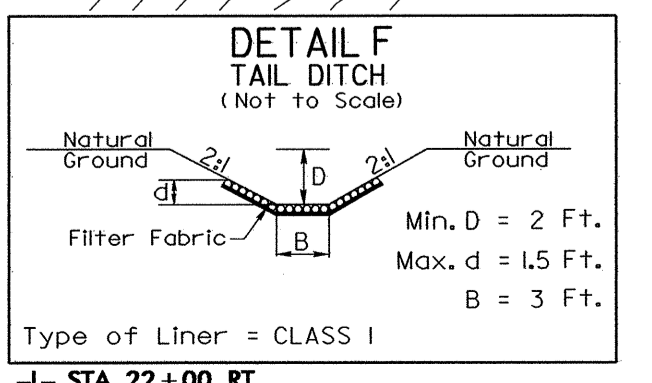
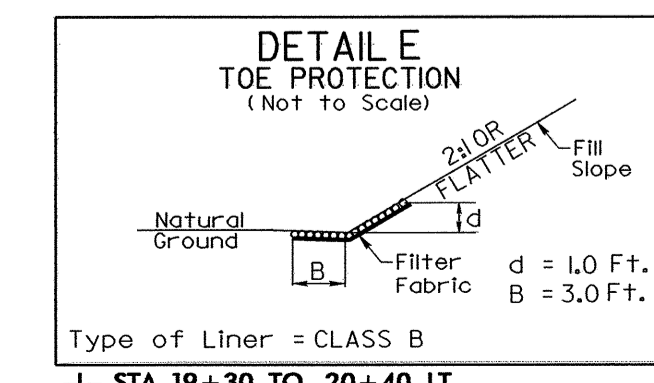
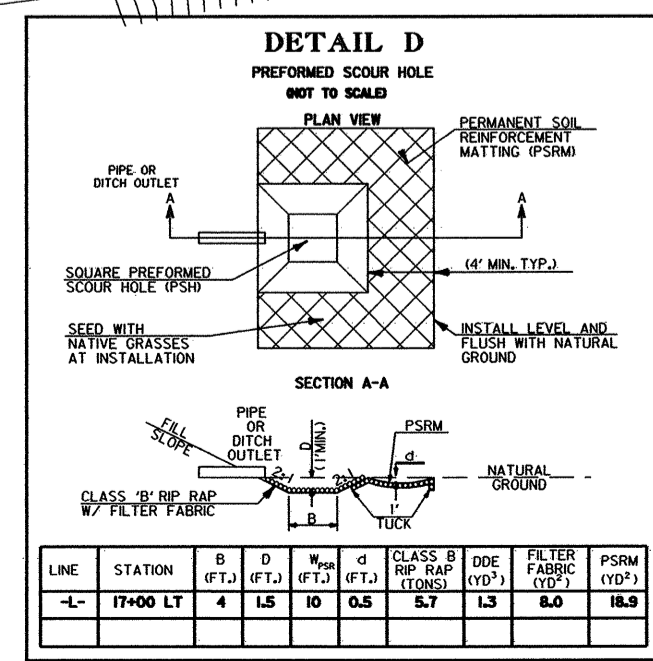
END PROJECT B-4255
 -L- POT Sta. 24+60.00

BL-2 B4255-2' PINC Sta. 18+56.85
 (-L- POC Sta. 10+96.61 LT 15.6823)

BEGIN PROJECT B-4255
 -L- POC Sta. 15+00.00

END BRIDGE
 -L- Sta. 19+17.00

BEGIN BRIDGE
 -L- Sta. 17+52.00



78 x 28 x 3
 2.5 inch Skimmer
 with 2.0 inch
 Orifice Diameter
 12 ft. weir

24 x 8 x 3
 4' weir

25 x 9 x 3
 4' weir

24 x 8 x 3
 4' weir

34 x 10 x 3
 4' weir

4" CIRCULAR DECK DRAINS
 TO BE PLACED AS FOLLOWS:
 -L- STA. 17+59 TO 18+07 LT
 -L- STA. 18+76 TO 19+04 LT
 -L- STA. 17+54 TO 18+17 RT
 -L- STA. 18+83 TO 19+15 RT

SPECIAL DITCH GRADE
 -L- STA. 22+40 TO 24+50 LT
 CLASS A RIP RAP
 EST. 25 TON
 EST. 120 SY

CLASS II RIP RAP
 STRUCTURE PAY ITEM
 EST. 200 CY EXCAVATION
 STRUCTURE PAY ITEM

SHLD. BERM GUTTER
 -L- 16+96 TO APP. SLAB

TAIL DITCH
 SEE DETAIL F
 DDE 35 CY
 EST. 75 TON
 EST. 130 SY FF

SPECIAL BASE DITCH
 SEE DETAIL G

JOHN E. GRAY AND WIFE
 SUE H. GRAY
 D.B. 581 PG. 617

JOHN E. GRAY AND WIFE
 SUE H. GRAY
 D.B. 581 PG. 617

EARL W. KOONTZ AND WIFE
 THELMA B. KOONTZ
 NO DEED LISTED

-L-
 PI Sta. 12+79.05
 $\Delta = 23^{\circ} 52' 24.3"$ (RT)
 $D = 4' 20" 26.1"$
 $L = 550.00'$
 $T = 279.05'$
 $R = 1,320.00'$
 $SE = 08$
 $DS = 60$ mph

NC GRID NAD 83

PROJECT REFERENCE NO.	SHEET NO.
B-4255	EC-5/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE:
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 AS NEEDED DURING BRIDGE CONSTRUCTION.

FOR -L- PROFILE SEE SHEET 5

