TIP PROJECT: B-4261

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

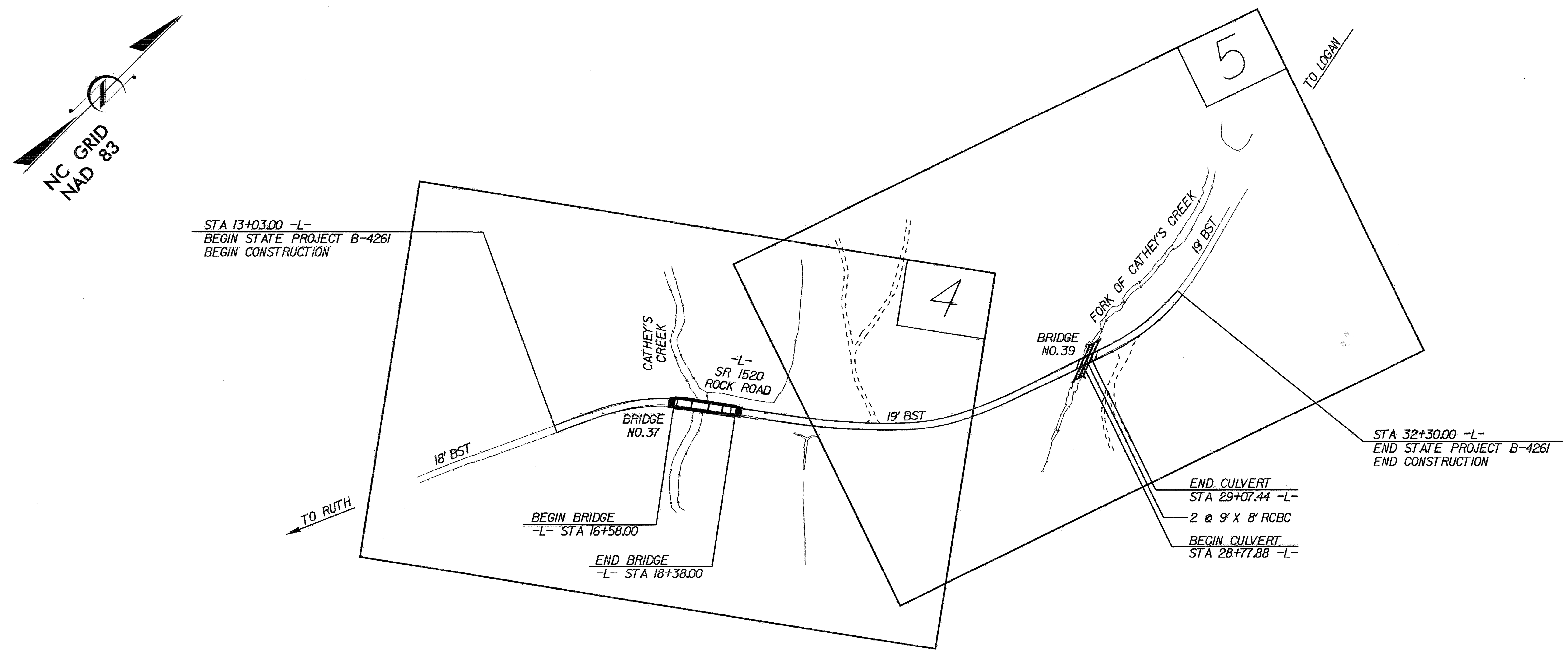
RUTHERFORD COUNTY

LOCATION: BRIDGE NO. 37 OVER CATHEY'S CREEK AND BRIDGE NO. 39 OVER THE FORK OF CATHEY'S CREEK ON SR 1520

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

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4261	EC-1	

STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION



EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	
1630.05	Temporary Diversion	
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.01	Riser Basin	
	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-B	
	Wattle	
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	
1630.06	Special Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	
	Tiered Skimmer Basin	
	Infiltration Basin	

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

GRAPHIC SCALE

0
PLANS

0
PROFILE (HORIZONTAL)

0
PROFILE (VERTICAL)

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

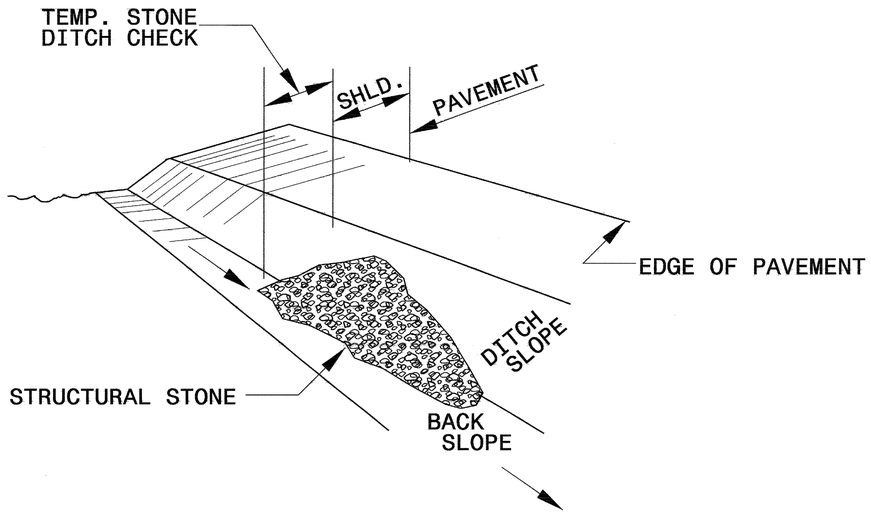
Roadway Standard Drawings

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 revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence
1606.01 Special Sediment Control Fence
1607.01 Gravel Construction Entrance
1622.01 Temporary Berms and Slope Drains
1630.04 Stilling Basin
1630.05 Temporary Diversion
1630.06 Special Stilling Basin
1632.03 Rock Inlet Sediment Trap Type C
1633.01 Temporary Rock Silt Check Type A
1635.01 Rock Pipe Inlet Sediment Trap Type A

PROJECT REFERENCE NO.	SHEET NO.
B-4261	EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

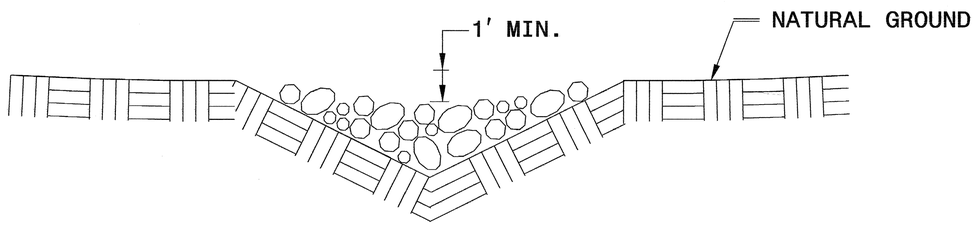


ISOMETRIC VIEW

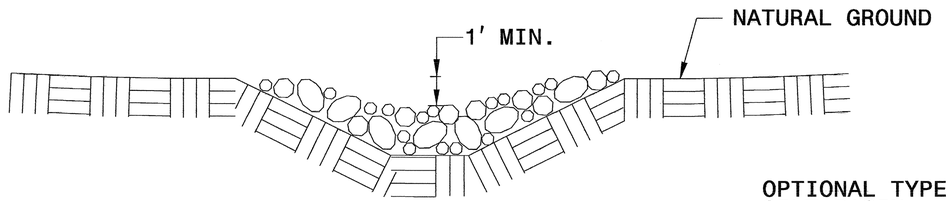
NOTES:

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

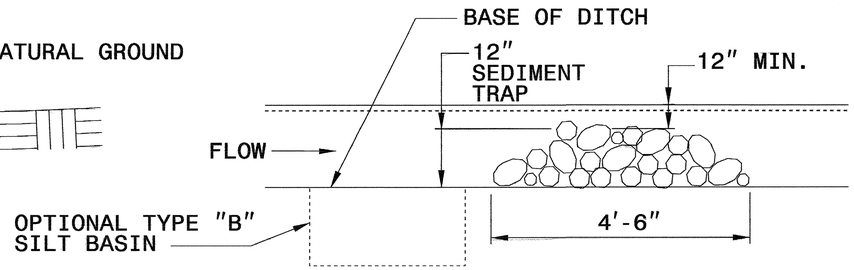
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



CROSS SECTION VEE DITCH



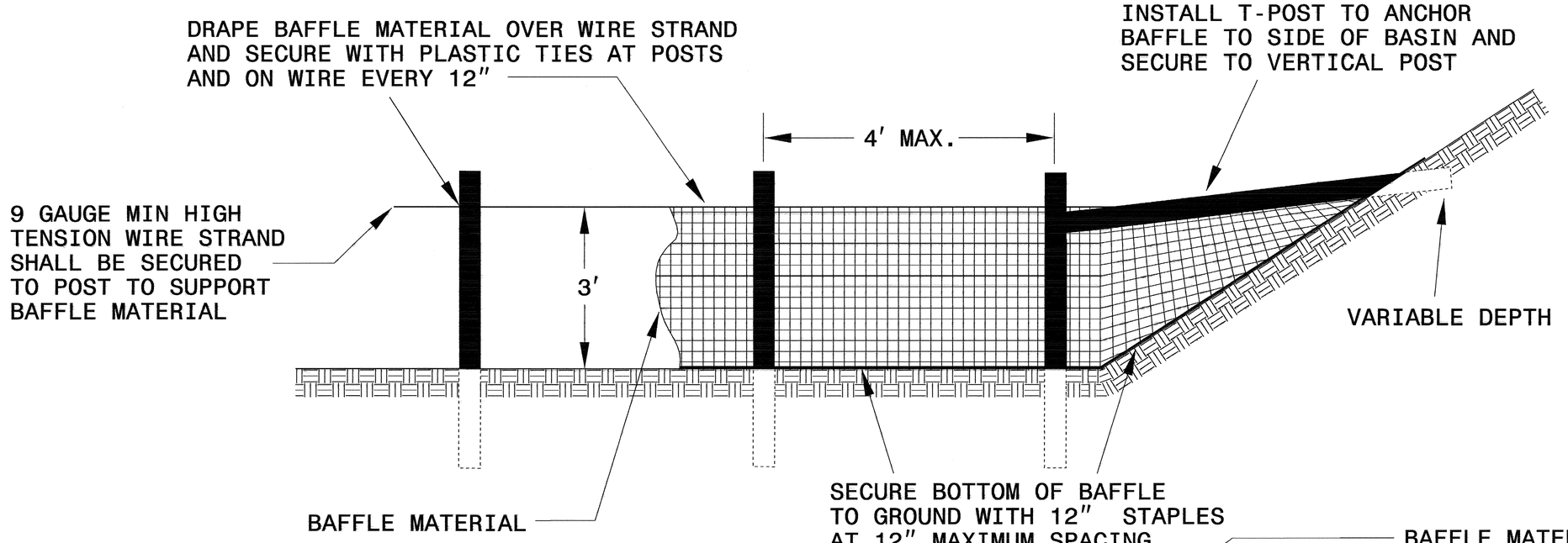
CROSS SECTION TRAPEZOIDAL DITCH

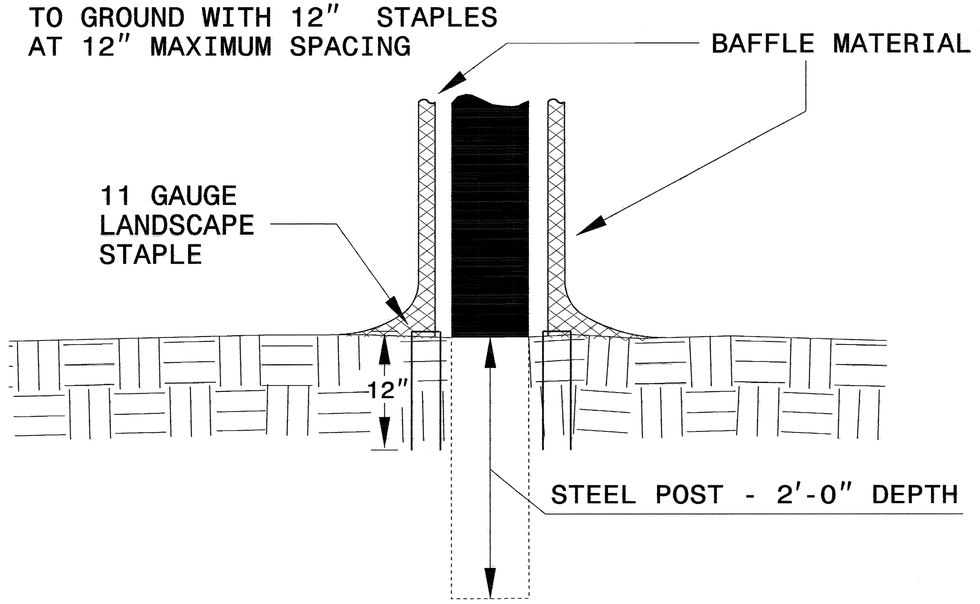


ELEVATION VIEW

PROJECT REFERENCE NO.	SHEET NO.
B-4261	EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER BAFFLE DETAIL





BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 12″ LANDSCAPE STAPLES

NOTES:

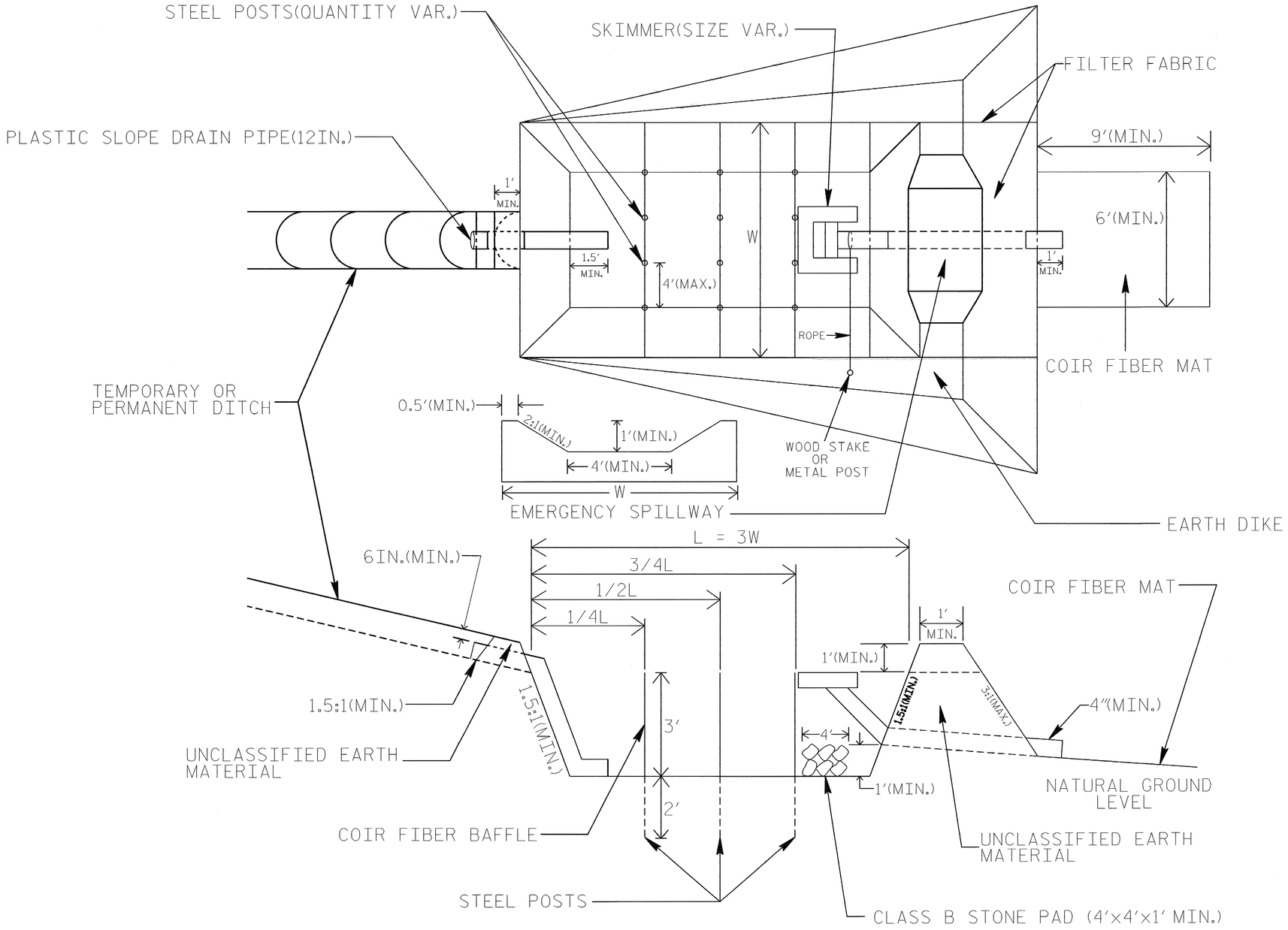
1. INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF ¼ THE BASIN LENGTH.

2. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS AND DAMS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF 1/3 THE BASIN LENGTH.

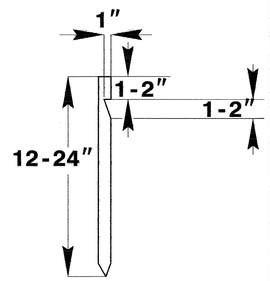
3. TOP HEIGHT OF COIR FIBER BAFFLES SHALL NOT BE BELOW BASE OF EMERGENCY SPILLWAY ELEVATION.

PROJECT REFERENCE NO.	SHEET NO.
B-4261	EC-2B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

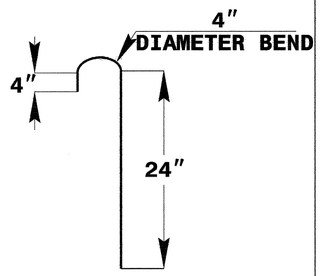
SKIMMER BASIN WITH BAFFLES DETAIL



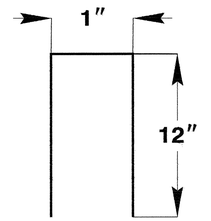
2" x 2" (nominal) WOODEN STAKE



#10 STEEL REINFORCEMENT BAR



1" (nominal) STAPLE



COIR FIBER MAT ANCHOR OPTIONS

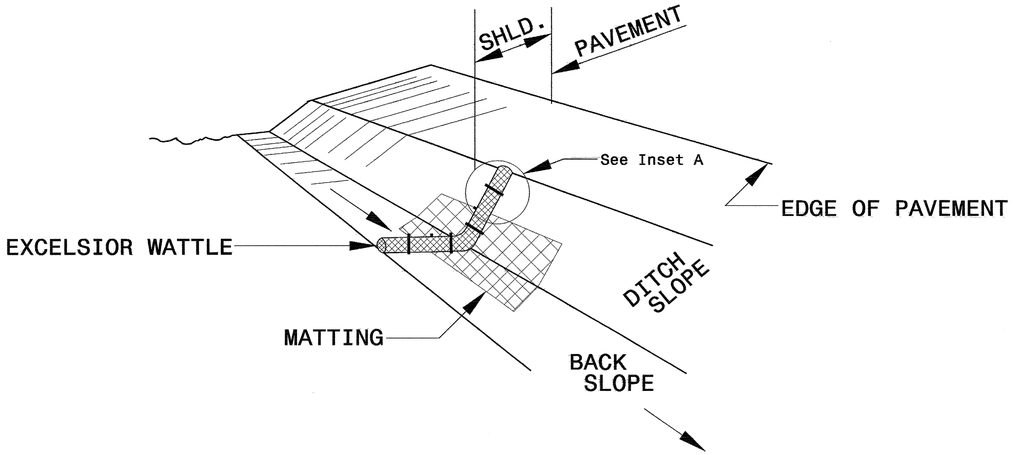
NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
4. DETERMINE EMERGENCY SPILLWAY LENGTH (FT.) USING Q/0.8, WHERE Q IS FLOW RATE (CFS) INTO BASIN.

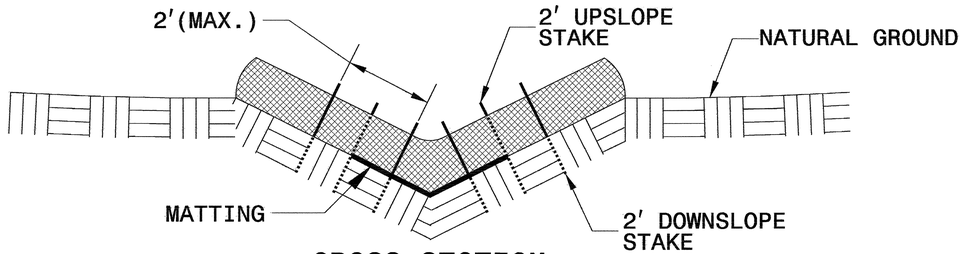
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
B-4261	EC-2C
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

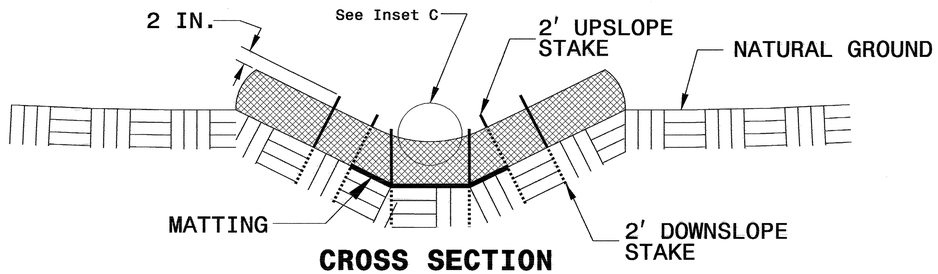
WATTLE WITH POLYACRYLAMIDE DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

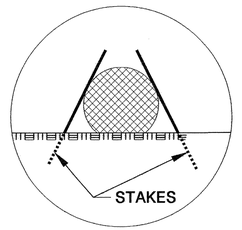
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

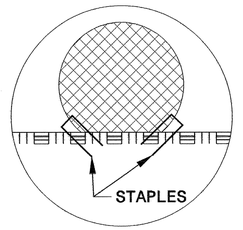
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

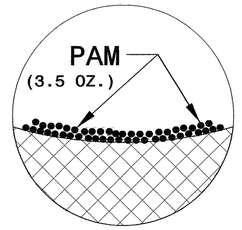
INITIALLY APPLY 3.5 OUNCES OF ANIONIC OR NEUTRALLY CHARGED POLYACRYLAMIDE (PAM) OVER WATTLE WHERE WATER WILL FLOW AND AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



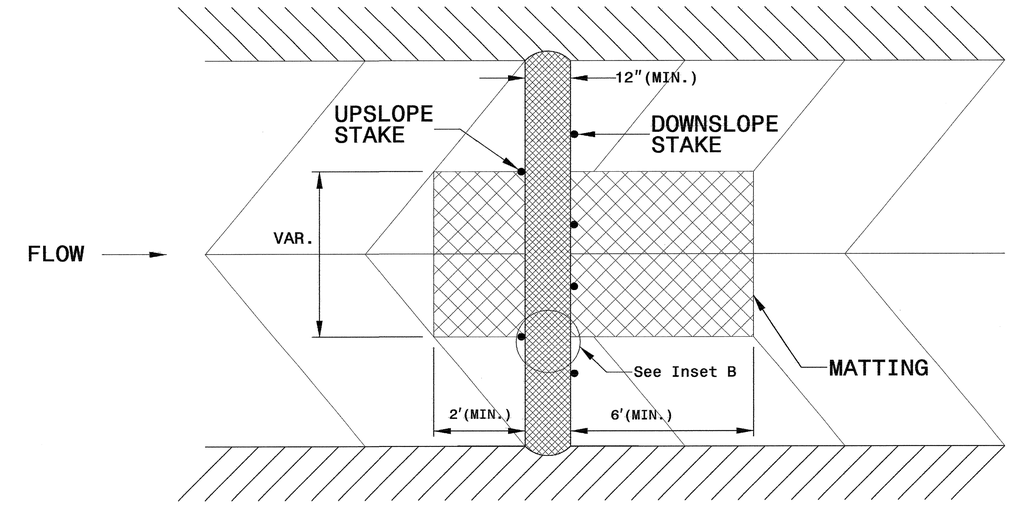
INSET A



INSET B



INSET C



TOP VIEW

PROJECT REFERENCE NO.	SHEET NO.
B-4261	EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

MATTING FOR EROSION CONTROL

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-L-	13+50	14+75	LT	135
4	-L-	18+38	21+00	LT	130
4	-L-	20+50	22+00	RT	75
				SUBTOTAL	340
MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER					9895
				TOTAL	10235
				SAY	10300

PERMANENT SOIL REINFORCEMENT MAT

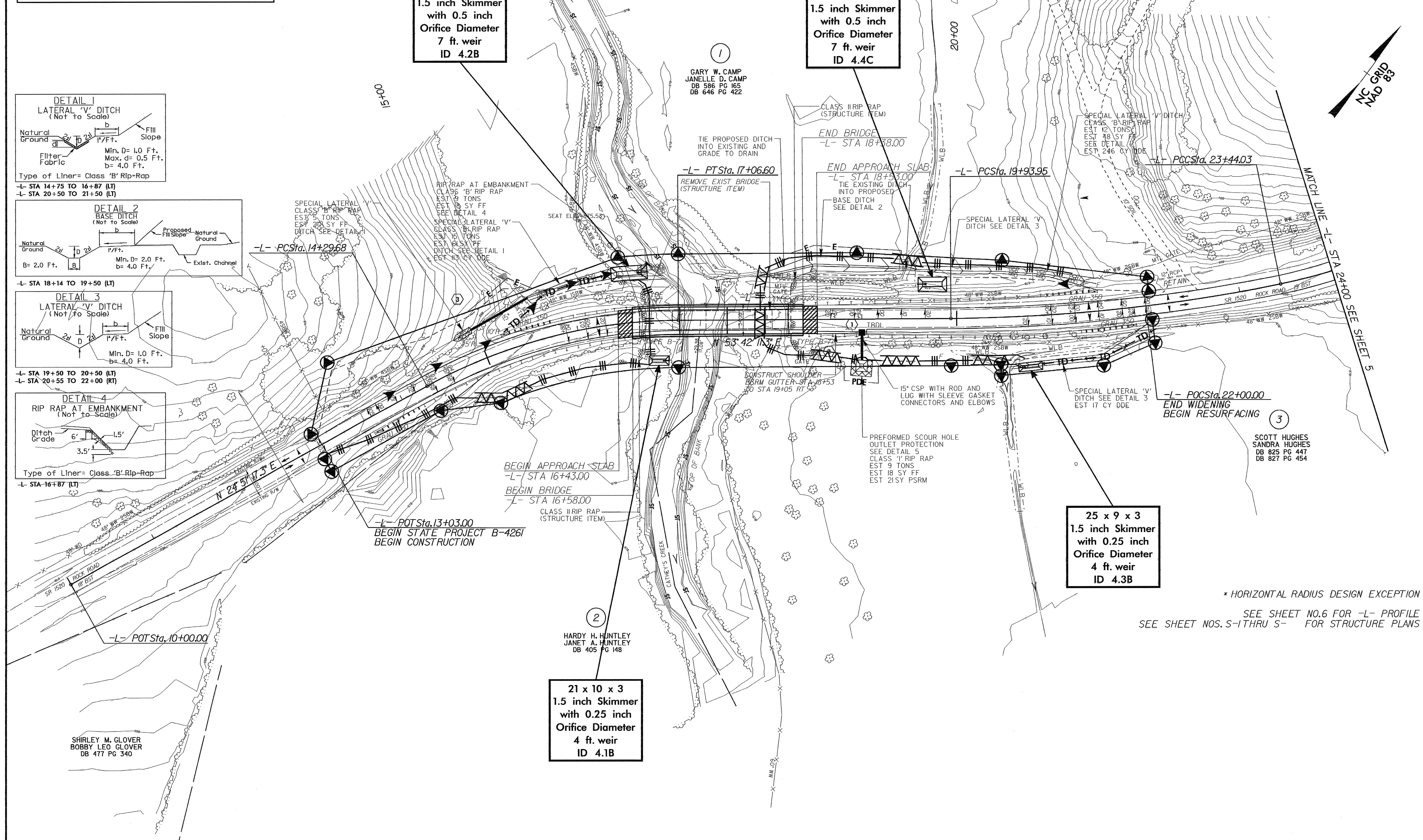
CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
5	-L-	29+50	32+00	RT	265
			SUBTOTAL		265
		ADDITIONAL PSRM TO BE INSTALLED			55
				TOTAL	320
				SAY	350

PROJECT REFERENCE NO.	SHEET NO.
B-4261	EC-4/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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.

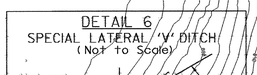
NOTE:
UTILIZE SKIMMER BASIN AS STILLING BASIN WHERE APPLICABLE.



38 x 15 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
7 ft. weir
ID 4.2B
30 x 15 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
7 ft. weir
ID 4.4C
25 x 9 x 3
1.5 inch Skimmer
with 0.25 inch
Orifice Diameter
4 ft. weir
ID 4.3B
21 x 10 x 3
1.5 inch Skimmer
with 0.25 inch
Orifice Diameter
4 ft. weir
ID 4.1B
DETAIL 1
LATERAL 'V' DITCH
(Not to Scale)
Type of Liner= Class 'B' Rip-Rap
-L- STA 14+75 TO 16+87 (LT)
-L- STA 20+50 TO 21+50 (LT)
DETAIL 2
BASE DITCH
(Not to Scale)
-L- STA 18+14 TO 19+50 (LT)
DETAIL 3
LATERAL 'V' DITCH
(Not to Scale)
-L- STA 19+50 TO 20+50 (LT)
-L- STA 20+55 TO 22+00 (RT)
DETAIL 4
RIP RAP AT EMBANKMENT
(Not to Scale)
Type of Liner= Class 'B' Rip-Rap
-L- STA 16+87 (LT)
GARY W. CAMP
JANELLE D. CAMP
DB 586 PG 165
DB 646 PG 422
HARDY H. HUNTLEY
JANET A. HUNTLEY
DB 405 PG 148
SCOTT HUGHES
SANDRA HUGHES
DB 825 PG 447
DB 827 PG 454
SHIRLEY M. GLOVER
BOBBY LEO GLOVER
DB 477 PG 340
-L- PCSta. 14+29.68
-L- PTSta. 17+06.60
-L- PCSta. 19+93.95
-L- PCCSta. 23+44.03
-L- POCSta. 22+00.00
END WIDENING
BEGIN RESURFACING
-L- POTSta. 13+03.00
BEGIN STATE PROJECT B-4261
BEGIN CONSTRUCTION
-L- POTSta. 10+00.00
BEGIN APPROACH SLAB
-L- STA 16+43.00
BEGIN BRIDGE
-L- STA 16+58.00
END BRIDGE
-L- STA 18+38.00
END APPROACH SLAB
-L- STA 18+53.00
MATCH LINE -L- STA 24+00 SEE SHEET 5
NC GRID NAD 83
* HORIZONTAL RADIUS DESIGN EXCEPTION
SEE SHEET NO.6 FOR -L- PROFILE
SEE SHEET NOS. S-1 THRU S- FOR STRUCTURE PLANS

PROJECT REFERENCE NO.	SHEET NO.
B-4261	EC-5/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

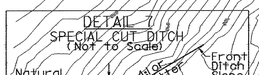
DETAIL 6
SPECIAL LATERAL 'V' DITCH
(Not to Scale)



Min. D= 1.0 Ft.

-L- STA 29+50 TO 31+00 (RT)

DETAIL 7
SPECIAL CUT DITCH
(Not to Scale)



Min. D= 1 Ft.

-L- STA 27+50 TO 28+87 (LT)

DETAIL 8
TOE PROTECTION
(Not to Scale)

d= 1 Ft.
Type of Liner = PSRM

-L- STA 28+87 TO 29+13 (LT)
-L- STA 28+68 TO 29+48 (RT)

41 x 15 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
7 ft. weir
ID 5.1B

30 x 9 x 3
1.5 inch Skimmer
with 0.25 inch
Orifice Diameter
4 ft. weir
ID 5.2B

30 x 10 x 3
1.5 inch Skimmer
with 0.375 inch
Orifice Diameter
4 ft. weir
ID 5.3B

NC GRID
NAD 83

1 GARY W. CAMP
JANELLE D. CAMP
DB 586 PG 165
DB 646 PG 422

5 RICHARD L. WARD
JOYCE C. WARD
DB 739 PG 209

4 RICHARD L. WARD
JOYCE C. WARD
DB 727 PG 762

3 SCOTT HUGHES
SANDRA HUGHES
DB 825 PG 447
DB 827 PG 454

AARON ADKINS
JESSICA ADKINS
DB 827 PG 456

MARJORIE J. WHITE
DB 743 PG 821

-L- PCCSta. 25+06.51
-L- PTSta. 26+53.89
-L- PCSta. 29+55.37
-L- PTSta. 33+29.81
-L- PCSta. 34+80.80
-L- PTSta. 37+37.00
-L- PCCSta. 32+30.00
END STATE PROJECT B-4261
END CONSTRUCTION

MATCH LINE -L- STA 24+00 SEE SHEET 4

-L- POTSta. 27+26.00
END RESURFACING
BEGIN WIDENING

BEGIN CULVERT
STA 28+77.88 -L-

END CULVERT
STA 29+07.44 -L-

CULVERT STATION
STA 28+92.66 -L-
SKEW = 140°
2 @ 9' X 8' RCBC
WITH BEVELED INLET

TOE PROTECTION
EST 13 SY PSRM
SEE DETAIL 8

TIE PROPOSED DITCH
TO EXISTING AND
GRADE TO DRAIN

SPECIAL CUT DITCH
SEE DETAIL 7

SPECIAL LATERAL
DITCH SEE DETAIL 6

TIE PROPOSED DITCH
INTO EXISTING AND
GRADE TO DRAIN TO
EXISTING 24" CMP
EST 47 CY DDE

CLEAN OUT EXISTING OUTLET
AND GRADE TO DRAIN.
PIPE IN FAIR CONDITION

RETAIN EXISTING
WELL

PROVIDE TOE PROTECTION
EST 100 SY PSRM
SEE DETAIL 8

CLASS "II" RIP RAP
EST 10 TONS
EST 20 SY FF

REMOVE EXIST CONCRETE
ABUTMENTS AND REWORK
STREAM BANK

CLASS "II" RIP RAP
EST 10 TONS
EST 220 SY FF

SEAL ABANDONED WELL

STILLING BASIN

FORK OF CATHEY'S CREEK

SR 1520 ROCK ROAD

N 18°53'57.7" E

N 14°37'20.5" W

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.

* HORIZONTAL RADIUS DESIGN EXCEPTION

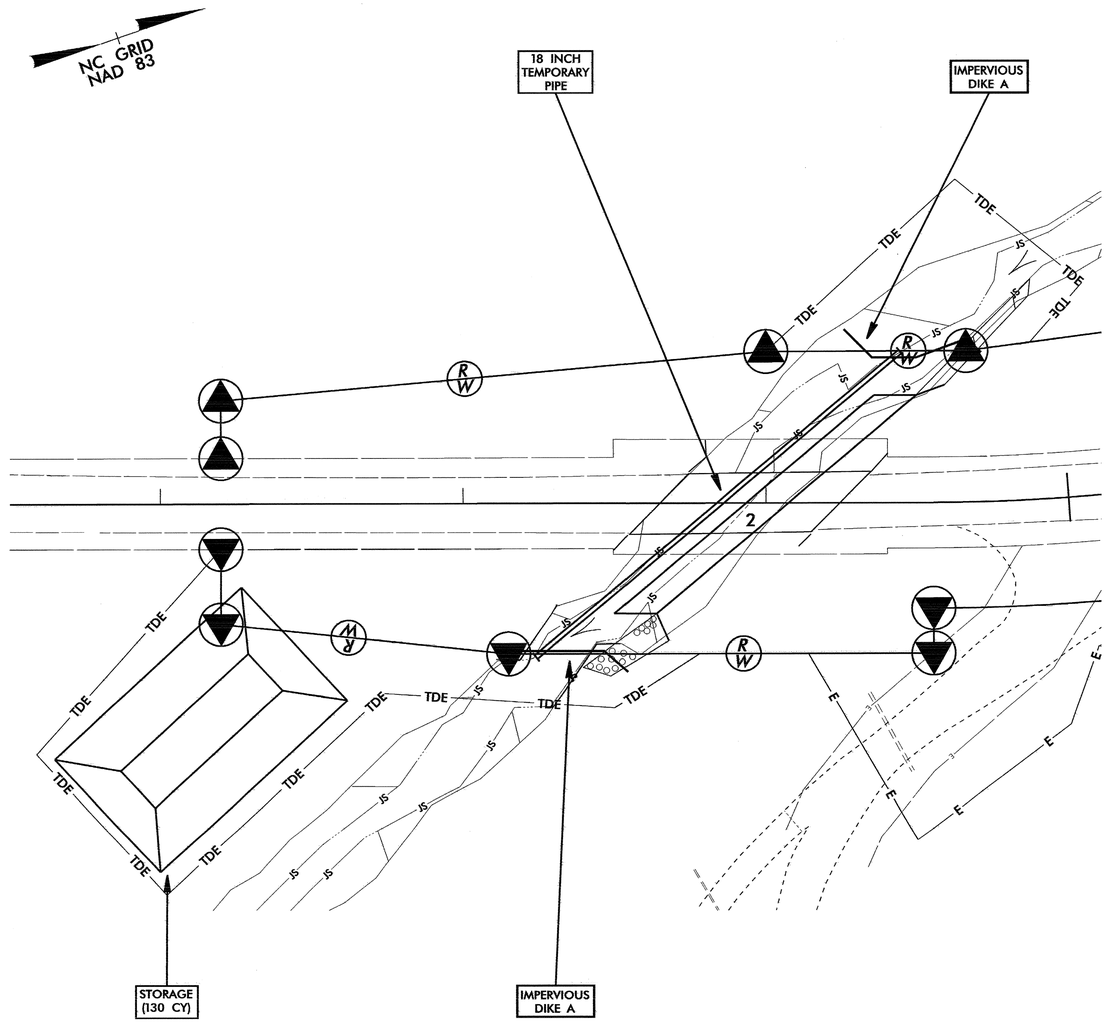
SEE SHEET NO.6 FOR -L- PROFILE
SEE SHEET NOS. C-1 THRU C- FOR CULVERT PLANS

CULVERT CONSTRUCTION SEQUENCE STA. 28+92.66 –L–

PROJECT REFERENCE NO.	SHEET NO.
B-4261	EC-6/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

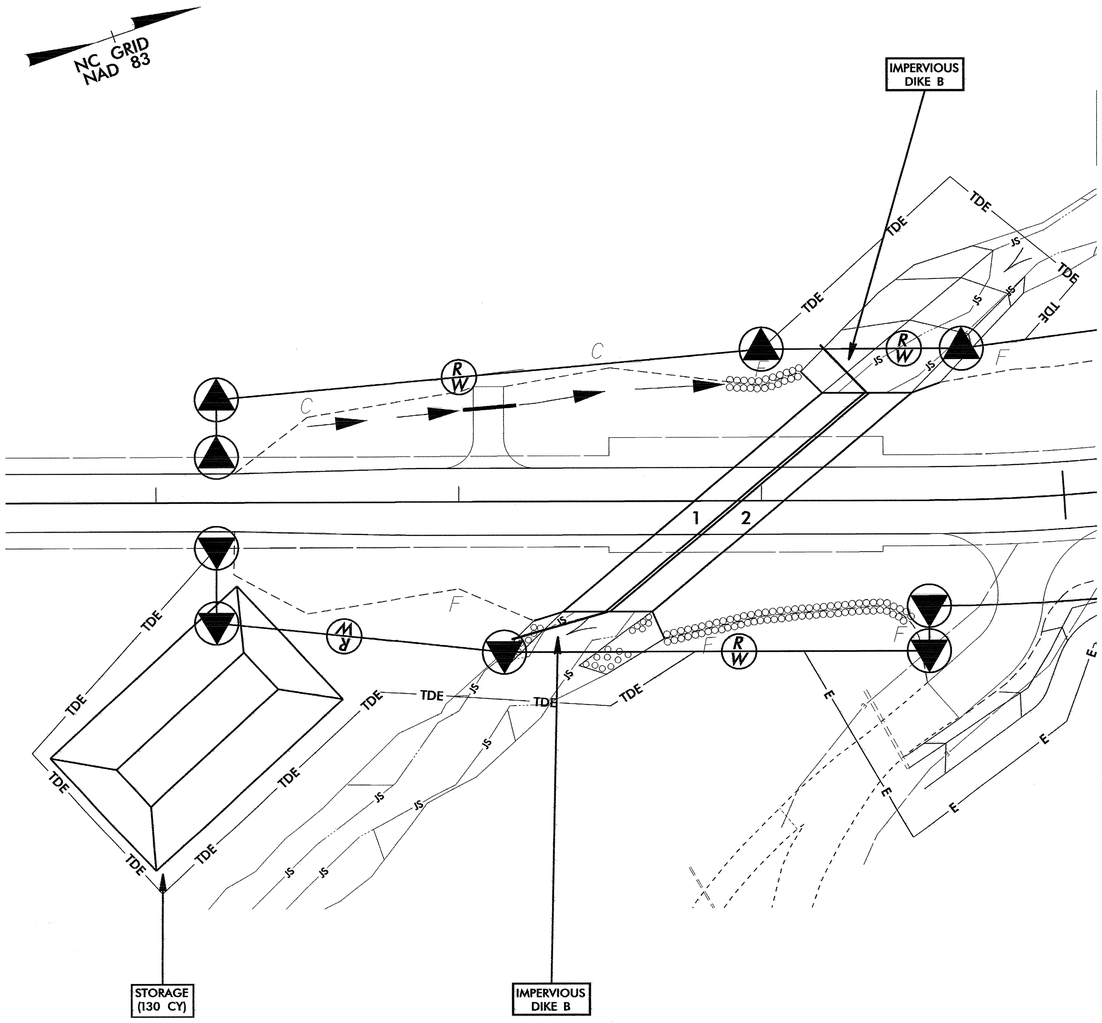
PHASE I

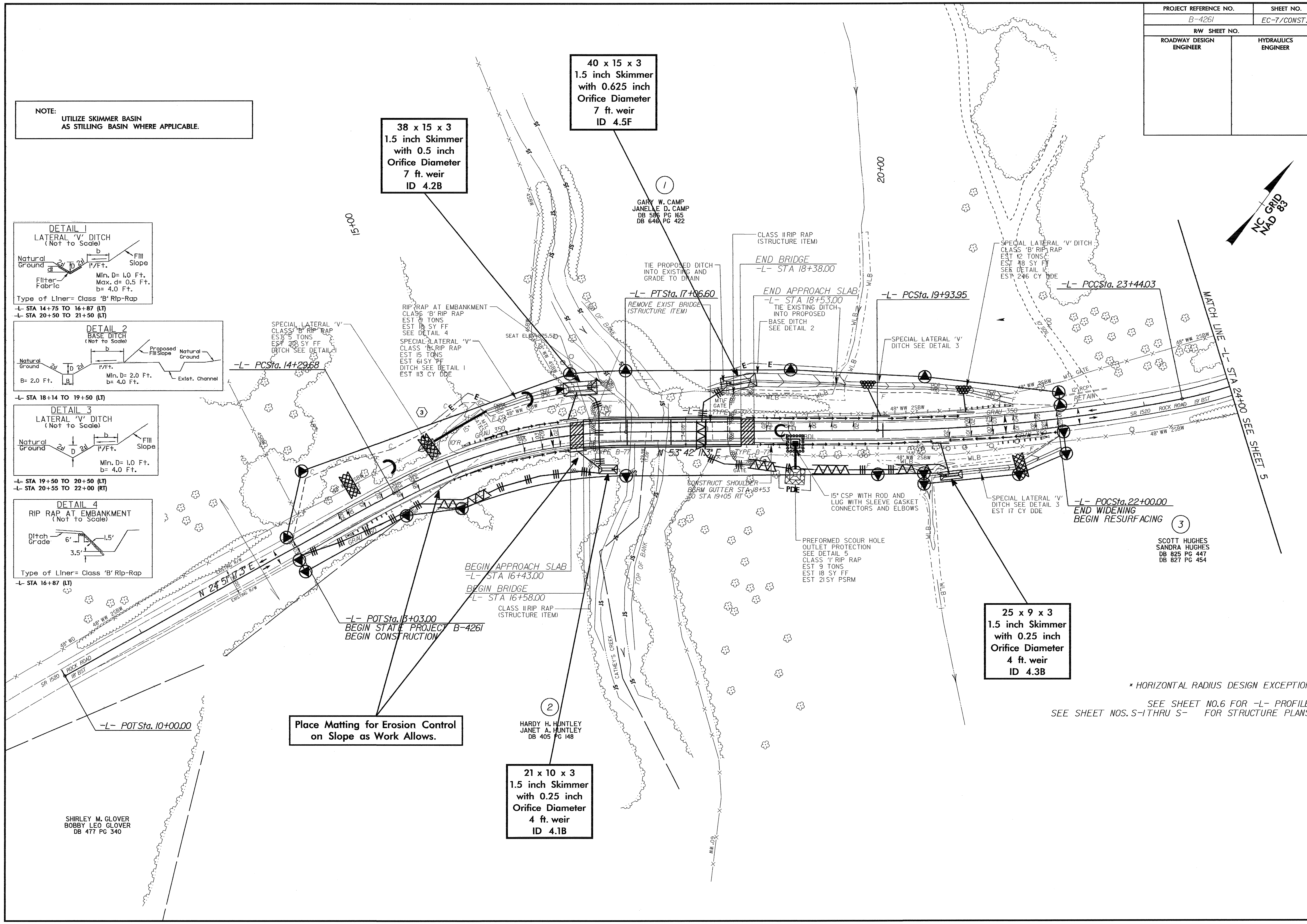
1. REMOVE THE EXISTING BRIDGE.
2. CONSTRUCT THE STILLING BASIN (130 CY).
3. CONSTRUCT IMPERVIOUS DIKES A AND INSTALL 18 INCH TEMPORARY PIPE, DIVERTING FLOW THROUGH THE PIPE.
4. CONSTRUCT BARREL 2 OF THE PROPOSED CULVERT, INCLUDING THE WINGWALLS.
5. CONSTRUCT PORTION OF UPSTREAM/DOWNSTREAM CHANNEL IMPROVEMENTS FOR BARREL 2.
6. REMOVE IMPERVIOUS DIKES A AND THE 18 INCH TEMPORARY PIPE.



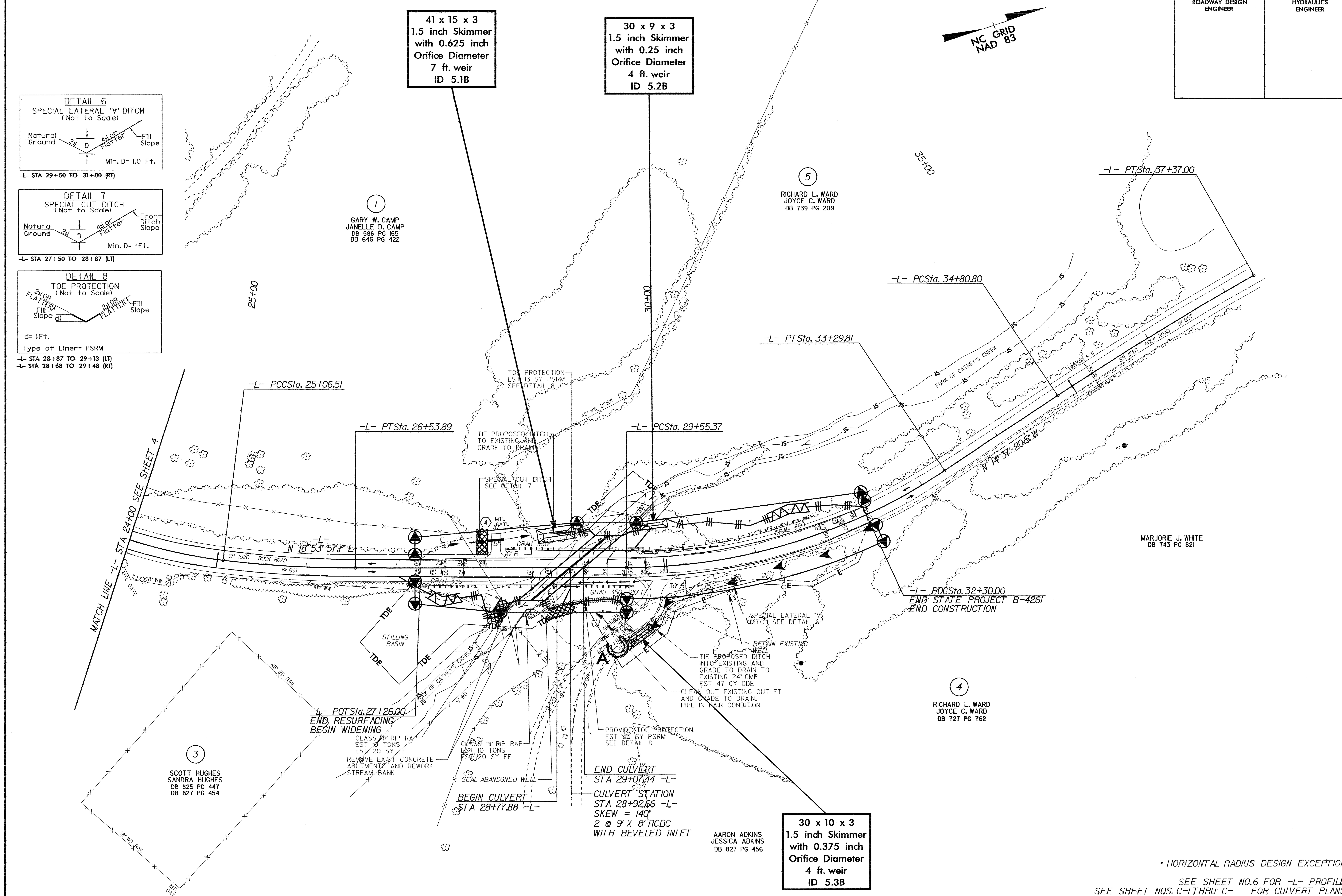
PHASE II

7. CONSTRUCT IMPERVIOUS DIKES B, DIVERTING FLOW THROUGH BARREL 2.
8. CONSTRUCT BARREL 1 OF THE PROPOSED CULVERT, INCLUDING THE WINGWALLS.
9. CONSTRUCT THE REMAINDER OF THE UPSTREAM/DOWNSTREAM CHANNEL IMPROVEMENTS.
10. REMOVE IMPERVIOUS DIKES B, ALLOWING FLOW THROUGH BOTH BARRELS.
11. REMOVE THE STILLING BASIN.
12. COMPLETE ROADWAY.




PROJECT REFERENCE NO. B-4261
SHEET NO. EC-7/CONST.4
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
NOTE: UTILIZE SKIMMER BASIN AS STILLING BASIN WHERE APPLICABLE.
38 x 15 x 3
1.5 inch Skimmer
with 0.5 inch
Orifice Diameter
7 ft. weir
ID 4.2B
40 x 15 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
7 ft. weir
ID 4.5F
25 x 9 x 3
1.5 inch Skimmer
with 0.25 inch
Orifice Diameter
4 ft. weir
ID 4.3B
21 x 10 x 3
1.5 inch Skimmer
with 0.25 inch
Orifice Diameter
4 ft. weir
ID 4.1B
Place Matting for Erosion Control on Slope as Work Allows.
DETAIL 1 LATERAL 'V' DITCH (Not to Scale)
Natural Ground
Filter Fabric
Fill Slope
Min. D= 1.0 Ft.
Max. d= 0.5 Ft.
b= 4.0 Ft.
Type of Liner= Class 'B' Rip-Rap
-L- STA 14+75 TO 16+87 (LT)
-L- STA 20+50 TO 21+50 (LT)
DETAIL 2 BASE DITCH (Not to Scale)
Proposed Fill Slope
Natural Ground
B= 2.0 Ft.
Min. D= 2.0 Ft.
b= 4.0 Ft.
Exist. Channel
-L- STA 18+14 TO 19+50 (LT)
DETAIL 3 LATERAL 'V' DITCH (Not to Scale)
Natural Ground
Fill Slope
Min. D= 1.0 Ft.
b= 4.0 Ft.
-L- STA 19+50 TO 20+50 (LT)
-L- STA 20+55 TO 22+00 (RT)
DETAIL 4 RIP RAP AT EMBANKMENT (Not to Scale)
Ditch Grade
Type of Liner= Class 'B' Rip-Rap
-L- STA 16+87 (LT)
GARY W. CAMP
JANELLE D. CAMP
DB 586 PG 165
DB 646 PG 422
HARDY H. HUNTLEY
JANET A. HUNTLEY
DB 405 PG 148
SCOTT HUGHES
SANDRA HUGHES
DB 825 PG 447
DB 827 PG 454
SHIRLEY M. GLOVER
BOBBY LEO GLOVER
DB 477 PG 340
-L- PCSta. 14+29.68
-L- PTSta. 17+06.60
-L- PCSta. 19+93.95
-L- PCCSta. 23+44.03
-L- POCSta. 22+00.00
END WIDENING
BEGIN RESURFACING
-L- POTSta. 13+03.00
BEGIN STATE PROJECT B-4261
BEGIN CONSTRUCTION
-L- POTSta. 10+00.00
BEGIN APPROACH SLAB -L- STA 16+43.00
BEGIN BRIDGE -L- STA 16+58.00
END BRIDGE -L- STA 18+38.00
END APPROACH SLAB -L- STA 18+53.00
REMOVE EXIST BRIDGE (STRUCTURE ITEM)
CLASS II RIP RAP (STRUCTURE ITEM)
TIE PROPOSED DITCH INTO EXISTING AND GRADE TO DRAIN
TIE EXISTING DITCH INTO PROPOSED
BASE DITCH SEE DETAIL 2
SPECIAL LATERAL 'V' DITCH SEE DETAIL 3
SPECIAL LATERAL 'V' DITCH CLASS 'B' RIP RAP EST 12 TONS EST 48 SY FF SEE DETAIL 1 EST 246 CY DDE
RIP RAP AT EMBANKMENT CLASS 'B' RIP RAP EST 9 TONS EST 10 SY FF SEE DETAIL 4
SPECIAL LATERAL 'V' CLASS 'B' RIP RAP EST 5 TONS EST 30 SY FF DITCH SEE DETAIL 1
SPECIAL LATERAL 'V' CLASS 'B' RIP RAP EST 15 TONS EST 61 SY FF DITCH SEE DETAIL 1 EST 113 CY DDE
CONSTRUCT SHOULDER BERM GUTTER STA 18+53 TO STA 19+05 RT
15" CSP WITH ROD AND LUG WITH SLEEVE GASKET CONNECTORS AND ELBOWS
PREFORMED SCOUR HOLE OUTLET PROTECTION SEE DETAIL 5 CLASS 'I' RIP RAP EST 9 TONS EST 18 SY FF EST 21 SY PSRM
SPECIAL LATERAL 'V' DITCH SEE DETAIL 3 EST 17 CY DDE
N 24°51'17.3" E
N 53°42'11.3" E
SR 1520 ROCK ROAD
CATHEY'S CREEK
TOP OF BANK
15+00
20+00
NC GRID NAD 83
MATCH LINE -L- STA 24+00 SEE SHEET 5
* HORIZONTAL RADIUS DESIGN EXCEPTION
SEE SHEET NO.6 FOR -L- PROFILE
SEE SHEET NOS. S-1 THRU S- FOR STRUCTURE PLANS

PROJECT REFERENCE NO.	SHEET NO.
B-4261	EC-8/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



NC GRID NAD 83
41 x 15 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
7 ft. weir
ID 5.1B
30 x 9 x 3
1.5 inch Skimmer
with 0.25 inch
Orifice Diameter
4 ft. weir
ID 5.2B
30 x 10 x 3
1.5 inch Skimmer
with 0.375 inch
Orifice Diameter
4 ft. weir
ID 5.3B
DETAIL 6
SPECIAL LATERAL 'V' DITCH
(Not to Scale)
Natural Ground
Fill Slope
Min. D= 1.0 Ft.
-L- STA 29+50 TO 31+00 (RT)
DETAIL 7
SPECIAL CUT DITCH
(Not to Scale)
Natural Ground
Front Ditch Slope
Min. D= 1Ft.
-L- STA 27+50 TO 28+87 (LT)
DETAIL 8
TOE PROTECTION
(Not to Scale)
Fill Slope
d= 1Ft.
Type of Liner= PSRM
-L- STA 28+87 TO 29+13 (LT)
-L- STA 28+68 TO 29+48 (RT)
GARY W. CAMP
JANELLE D. CAMP
DB 586 PG 165
DB 646 PG 422
RICHARD L. WARD
JOYCE C. WARD
DB 739 PG 209
MARJORIE J. WHITE
DB 743 PG 821
RICHARD L. WARD
JOYCE C. WARD
DB 727 PG 762
SCOTT HUGHES
SANDRA HUGHES
DB 825 PG 447
DB 827 PG 454
AARON ADKINS
JESSICA ADKINS
DB 827 PG 456
-L- PCCSta. 25+06.51
-L- PTSta. 26+53.89
-L- PCSta. 29+55.37
-L- PTSta. 33+29.81
-L- PCSta. 34+80.80
-L- PTSta. 37+37.00
-L- POCSta. 32+30.00
END STATE PROJECT B-4261
END CONSTRUCTION
-L- POTSta. 27+26.00
END RESURFACING
BEGIN WIDENING
MATCH LINE -L- STA 24+00 SEE SHEET 4
N 18°53'57.7" E
N 14°37'20.5" W
SR 1520 ROCK ROAD
TOE PROTECTION
EST 13 SY PSRM
SEE DETAIL 8
TIE PROPOSED DITCH
TO EXISTING AND
GRADE TO DRAIN
SPECIAL CUT DITCH
SEE DETAIL 7
STILLING BASIN
SPECIAL LATERAL 'V' DITCH SEE DETAIL 6
RETAIN EXISTING WELL
TIE PROPOSED DITCH
INTO EXISTING AND
GRADE TO DRAIN TO
EXISTING 24" CMP
EST 47 CY DDE
CLEAN OUT EXISTING OUTLET
AND GRADE TO DRAIN.
PIPE IN FAIR CONDITION
PROVIDE TOE PROTECTION
EST 60 SY PSRM
SEE DETAIL 8
CLASS 'II' RIP RAP
EST 10 TONS
EST 20 SY FF
REMOVE EXIST CONCRETE
ABUTMENTS AND REWORK
STREAM BANK
SEAL ABANDONED WELL
BEGIN CULVERT
STA 28+77.88 -L-
END CULVERT
STA 29+07.44 -L-
CULVERT STATION
STA 28+92.66 -L-
SKEW = 140°
2 @ 9' X 8' RCBC
WITH BEVELED INLET
FORK OF CATHEY'S CREEK
25+00
30+00
35+00

* HORIZONTAL RADIUS DESIGN EXCEPTION

SEE SHEET NO.6 FOR -L- PROFILE

SEE SHEET NOS. C-1 THRU C- FOR CULVERT PLANS