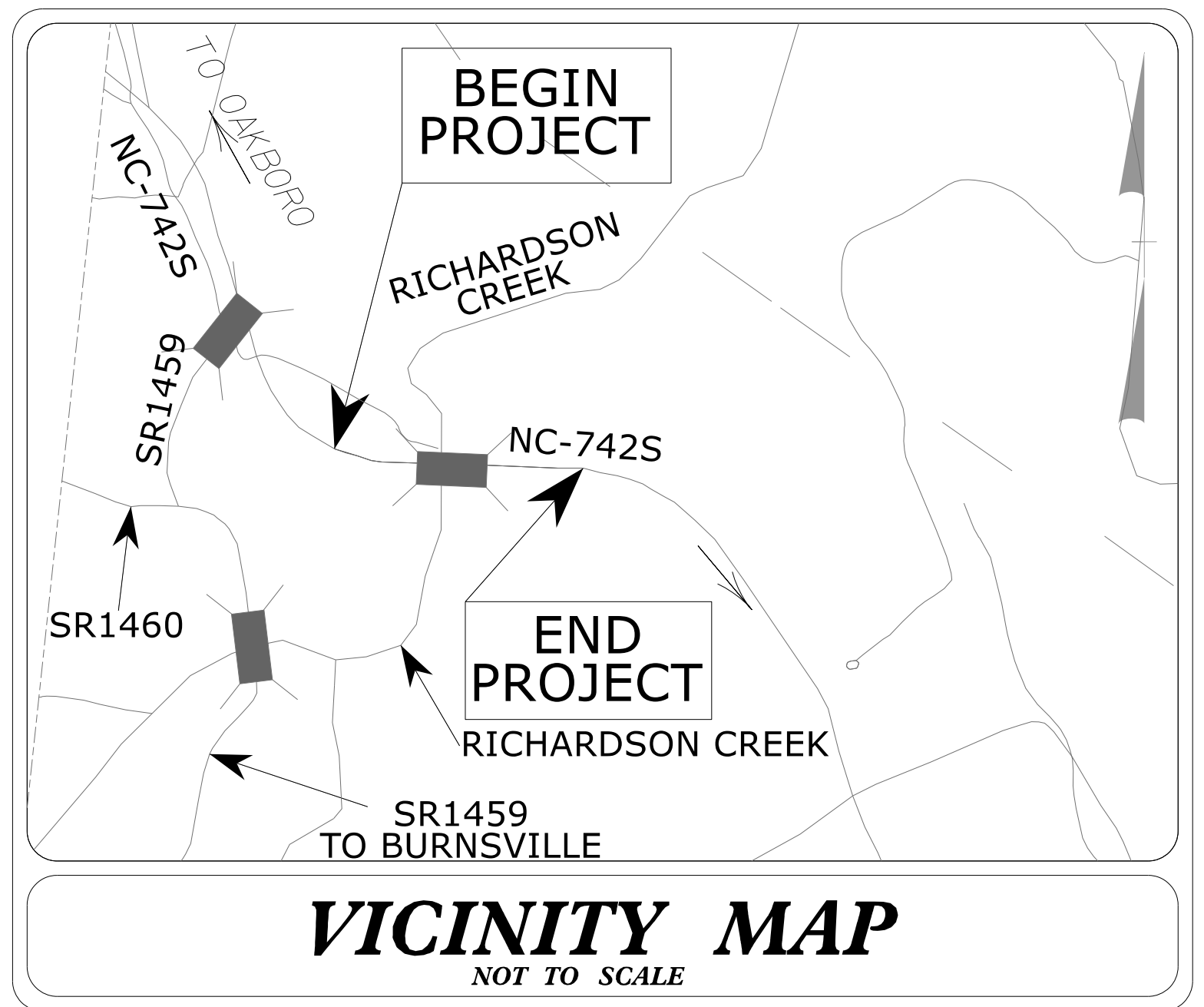


TIP PROJECT: BR-0063



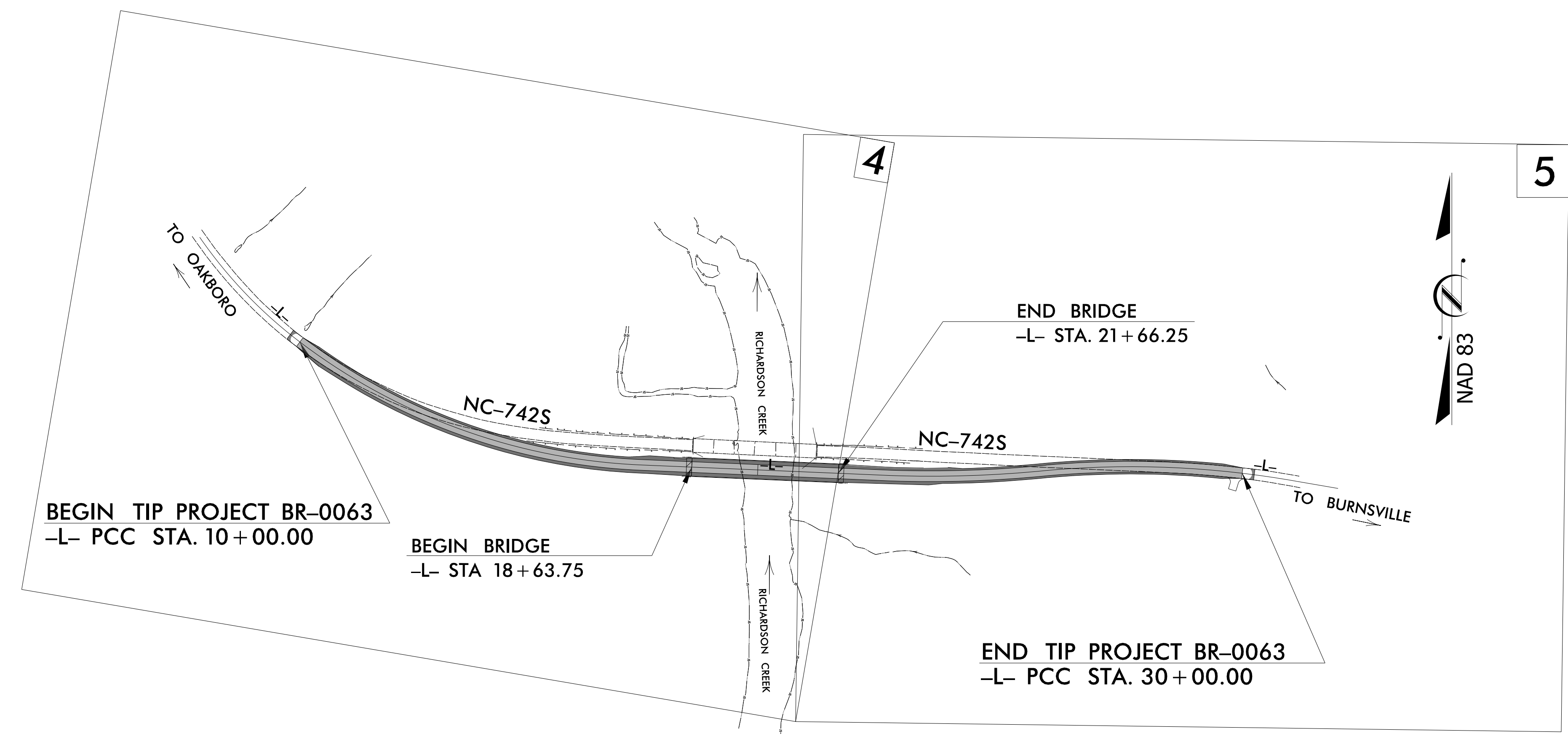
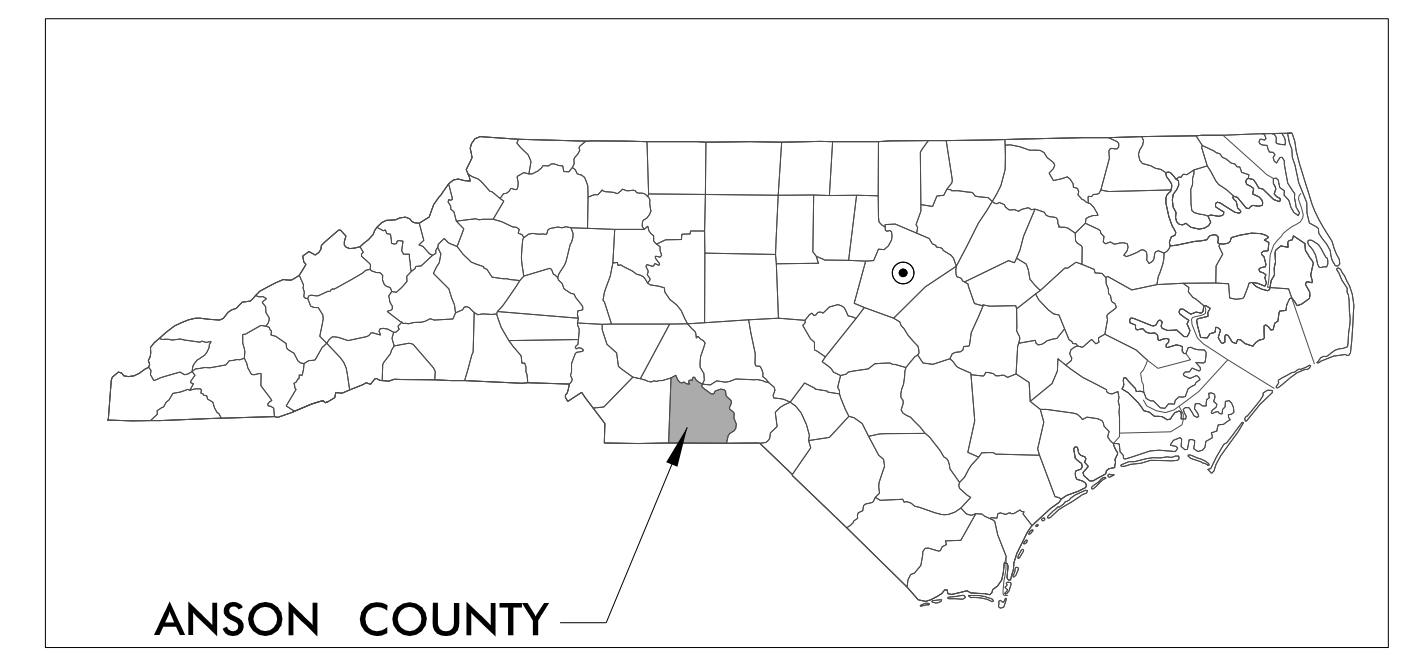
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
**PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL**

LOCATION: *REPLACEMENT OF BRIDGE 030087 OVER
RICHARDSON CREEK ON NC 742*
TYPE OF WORK: *GRADING, PAVING, DRAINAGE AND STRUCTURE*

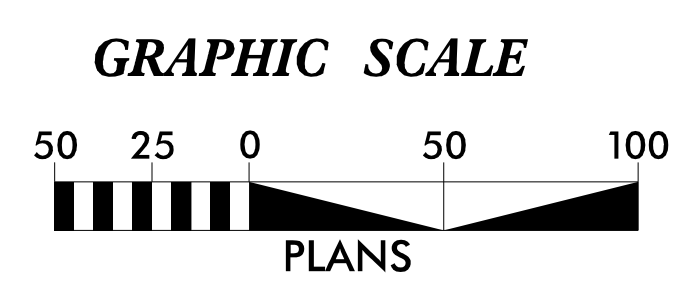


10/2/2024

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0063	EC-1	8
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
67063.1.1	N/A	PE	



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 ISSUED BY THE NORTH
CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION
OF WATER RESOURCES.



Prepared in the Office of:
ARCADIS
175 REGENCY WOODS PLACE, SUITE 400,
CARY NC, 27518
LICENSE #: F-0299


Designed by:
ERIC REARDON, PE, CFM 3316
NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings



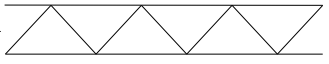

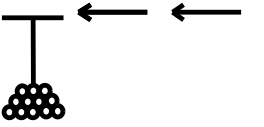
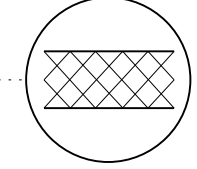
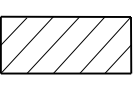
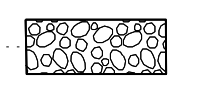

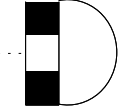
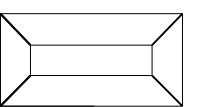
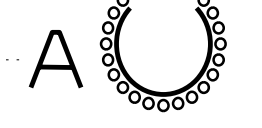

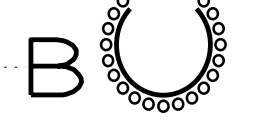
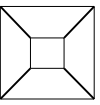

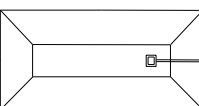

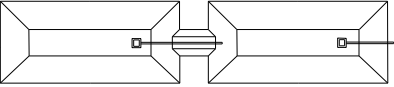
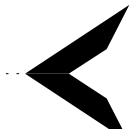
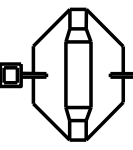




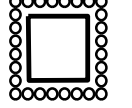

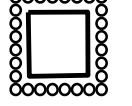

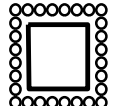
The "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2024 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

10/2/2024 10:24:11 AM

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. BR-0063	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	A 	1636.02	Excelsior Wattle Barrier	
1632.02	Type B	B 	1636.03	Coir Fiber Wattle Barrier	
1632.03	Type C	C 			

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION SUMMARY SHEET

DITCH MATTING FOR EROSION CONTROL

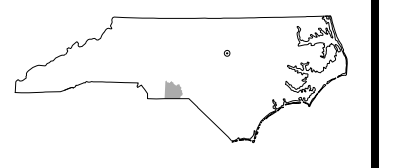
MATTING FOR SLOPE PROTECTION

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-L-	12+50	18+00	RT	730
4	-L-	15+00	18+39	LT	860
5	-L-	21+85	24+00	LT	180
5	-L-	23+00	27+00	RT	230
		STRAW MATTING	TOTAL		2000
4	-L-	18+00	19+47	RT	235
5	-L-	24+00	25+50	LT	220
		EXCELSIOR MATTING	TOTAL		455
			SUBTOTAL		2455

CONST SHEET NO.	LINE	FROM STATION	TO STATION	SIDE	ESTIMATE (SY)
4	-L-	12+00	18+50	RT	2167
5	-L-	22+00	22+50	RT	139
			SUBTOTAL		2306
			SUBTOTAL FOR DITCH MATTING		2455
			MISCELLANEOUS MATTING TO BE INSTALLED AS DIRECTED BY THE ENGINEER		9055
			TOTAL		13816
			SAY		13850


BR-0063
EC 3

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
ANSON COUNTY



ROADWAY DESIGN UNIT
ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER



PREPARED BY



REVISIONS

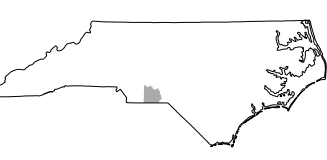
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

BR-0063

EC 3A

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
ANSON COUNTY



ROADWAY DESIGN UNIT

ROADWAY DESIGN
ENGINEER

HYDRAULICS
ENGINEER



10/2/2024

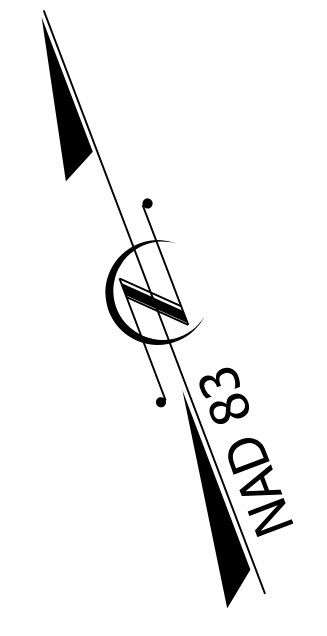
PREPARED BY



115 REGENCY WOODS PLACE, SUITE 400, CARY, NC 27518
Phone: 919-841-1122, Fax: 919-841-1123

<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

REVISIONS



CUR DATA -L-
 Plc 8+56.77
 $\Delta c = 18^{\circ}56'14.8''$ (LT)
 D = 06°05'43.1"
 Lc = 310.6896"
 Tc = 156.7746"
 R = 940.0000"
 SE = EXIST.


CUR DATA -L-
 Plc 13+93.64
 $\Delta c = 34^{\circ}03'56.3''$ (LT)
 D = 04°35'01.2"
 Lc = 743.1970"
 Tc = 382.9464"
 R = 1250.0000"
 V = 50MPH
 SE = 0.06

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

NOTE:
 UTILIZE TURBIDITY CURTAIN DURING BRIDGE
 REMOVAL AND CONSTRUCTION WHERE APPLICABLE.

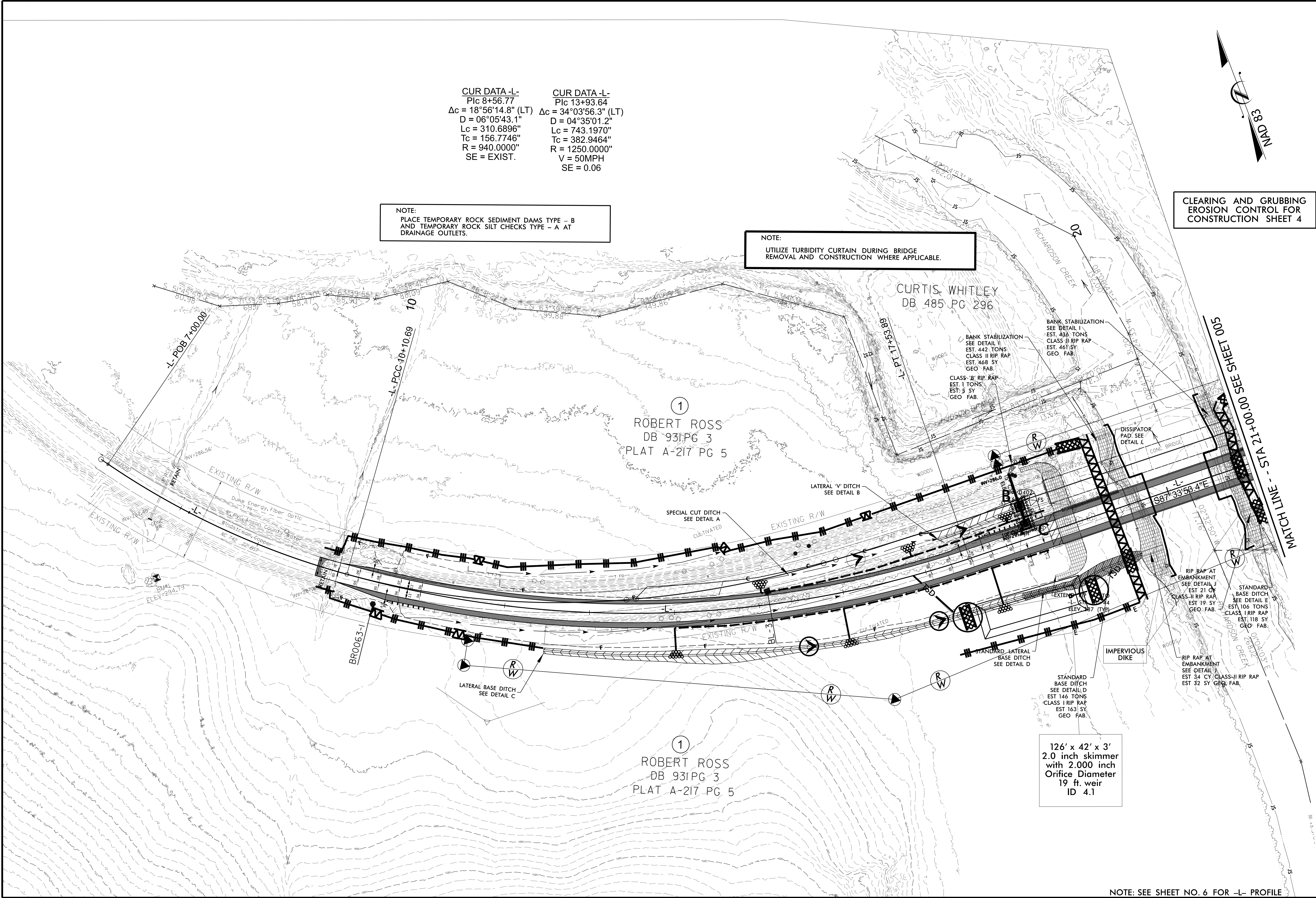
CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 4

HYDRAULICS
 ENGINEER



10/2/2024

PREPARED BY
ARCADIS



126' x 42' x 3'
 2.0 inch skimmer
 with 2.000 inch
 Orifice Diameter
 19 ft. weir
 ID 4.1

NOTE: SEE SHEET NO. 6 FOR -L- PROFILE

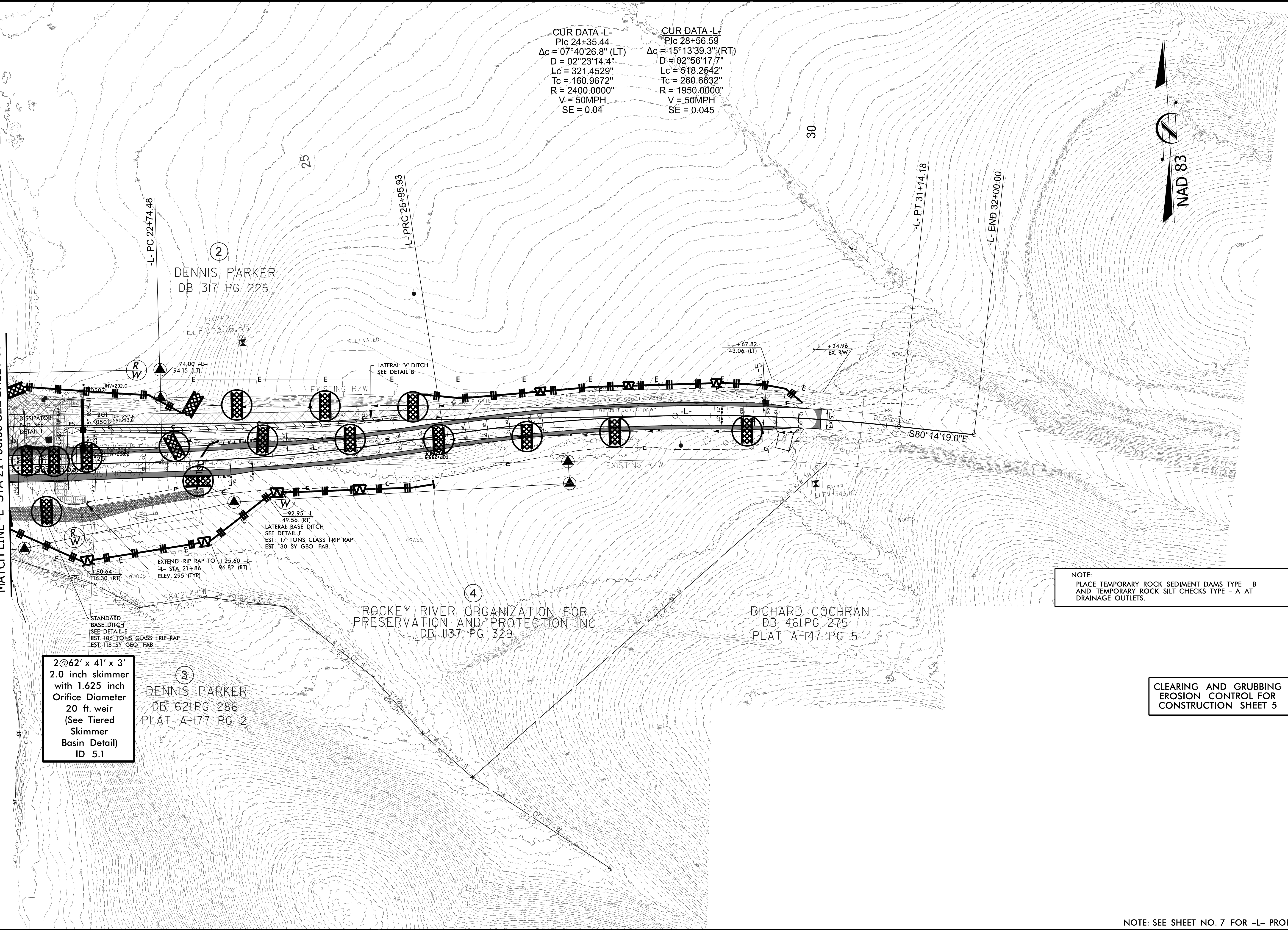
REVISIONS

CUR DATA -L-
 P/c 24+35.44
 $\Delta c = 07^{\circ}40'26.8''$ (LT)
 D = 02°23'14.4"
 Lc = 321.4529"
 Tc = 160.9672"
 R = 2400.0000"
 V = 50MPH
 SE = 0.04

CUR DATA -L-
 P/c 28+56.59
 $\Delta c = 15^{\circ}13'39.3''$ (RT)
 D = 02°56'17.7"
 Lc = 518.2542"
 Tc = 260.6632"
 R = 1950.0000"
 V = 50MPH
 SE = 0.045



MATCH LINE -L- STA 21+00.00 SEE SHEET 004



② DENNIS PARKER
 DB 317 PG 225

④ ROCKEY RIVER ORGANIZATION FOR
 PRESERVATION AND PROTECTION INC
 DB 1137 PG 329

RICHARD COCHRAN
 DB 461 PG 275
 PLAT A-147 PG 5

③ DENNIS PARKER
 DB 621 PG 286
 PLAT A-177 PG 2

2@62' x 41' x 3'
 2.0 inch skimmer
 with 1.625 inch
 Orifice Diameter
 20 ft. weir
 (See Tiered
 Skimmer
 Basin Detail)
 ID 5.1

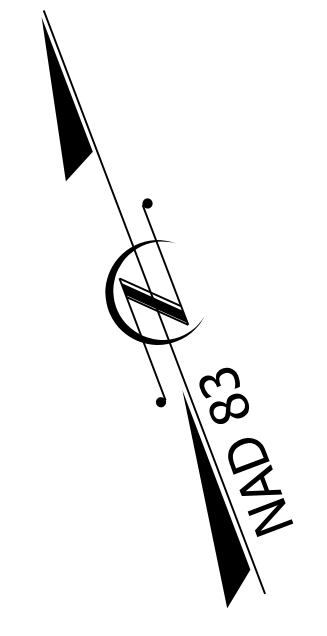
NOTE:
 PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
 AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
 DRAINAGE OUTLETS.

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 5

REVISIONS

CUR DATA -L-
 Plc 8+56.77
 $\Delta c = 18^{\circ}56'14.8''$ (LT)
 $D = 06^{\circ}05'43.1''$
 $Lc = 310.6896''$
 $Tc = 156.7746''$
 $R = 940.0000''$
 SE = EXIST.

CUR DATA -L-
 Plc 13+93.64
 $\Delta c = 34^{\circ}03'56.3''$ (LT)
 $D = 04^{\circ}35'01.2''$
 $Lc = 743.1970''$
 $Tc = 382.9464''$
 $R = 1250.0000''$
 $V = 50MPH$
 SE = 0.06



FINAL EROSION CONTROL
 FOR CONSTRUCTION
 SHEET 4

NOTE:
 UTILIZE TURBIDITY CURTAIN DURING BRIDGE
 REMOVAL AND CONSTRUCTION WHERE APPLICABLE.

CURTIS WHITLEY
 DB 485 PG 296

①
 ROBERT ROSS
 DB 931 PG 3
 PLAT A-217 PG 5

BEGIN CONSTRUCTION
 BEGIN MILL/RESURF.
 -L- STA. 9+75.00

BEGIN TIP PROJECT BR-0063
 -L- PCC STA. 10+00.00

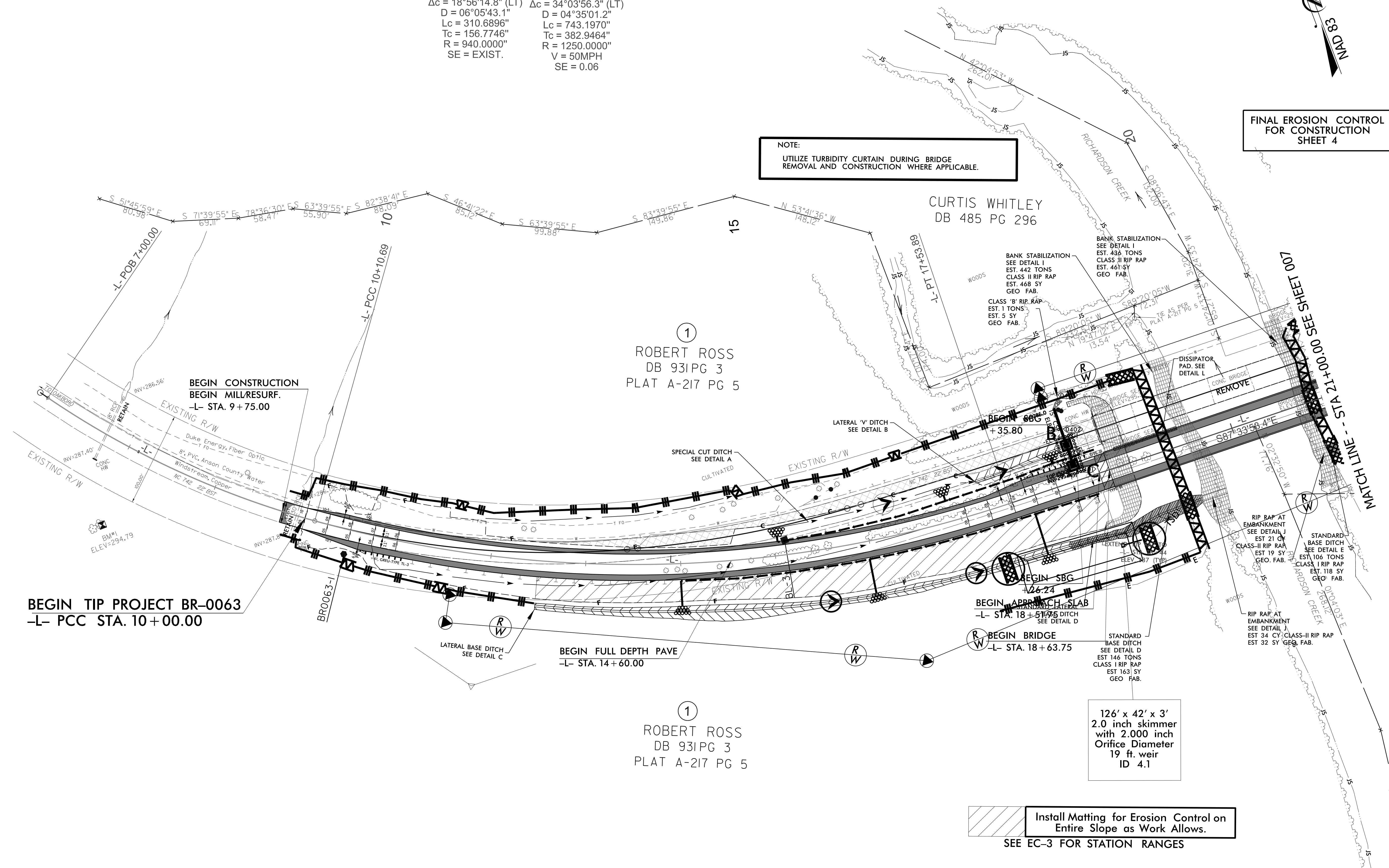
BEGIN FULL DEPTH PAVE
 -L- STA. 14+60.00

①
 ROBERT ROSS
 DB 931 PG 3
 PLAT A-217 PG 5

126' x 42' x 3'
 2.0 inch skimmer
 with 2.000 inch
 Orifice Diameter
 19 ft. weir
 ID 4.1


Install Matting for Erosion Control on
 Entire Slope as Work Allows.
 SEE EC-3 FOR STATION RANGES

NOTE: SEE SHEET NO. 6 FOR -L- PROFILE




REVISIONS

BR-0063
 EC 007
 NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 ANSON COUNTY



ROADWAY DESIGN UNIT
 ROADWAY DESIGN ENGINEER

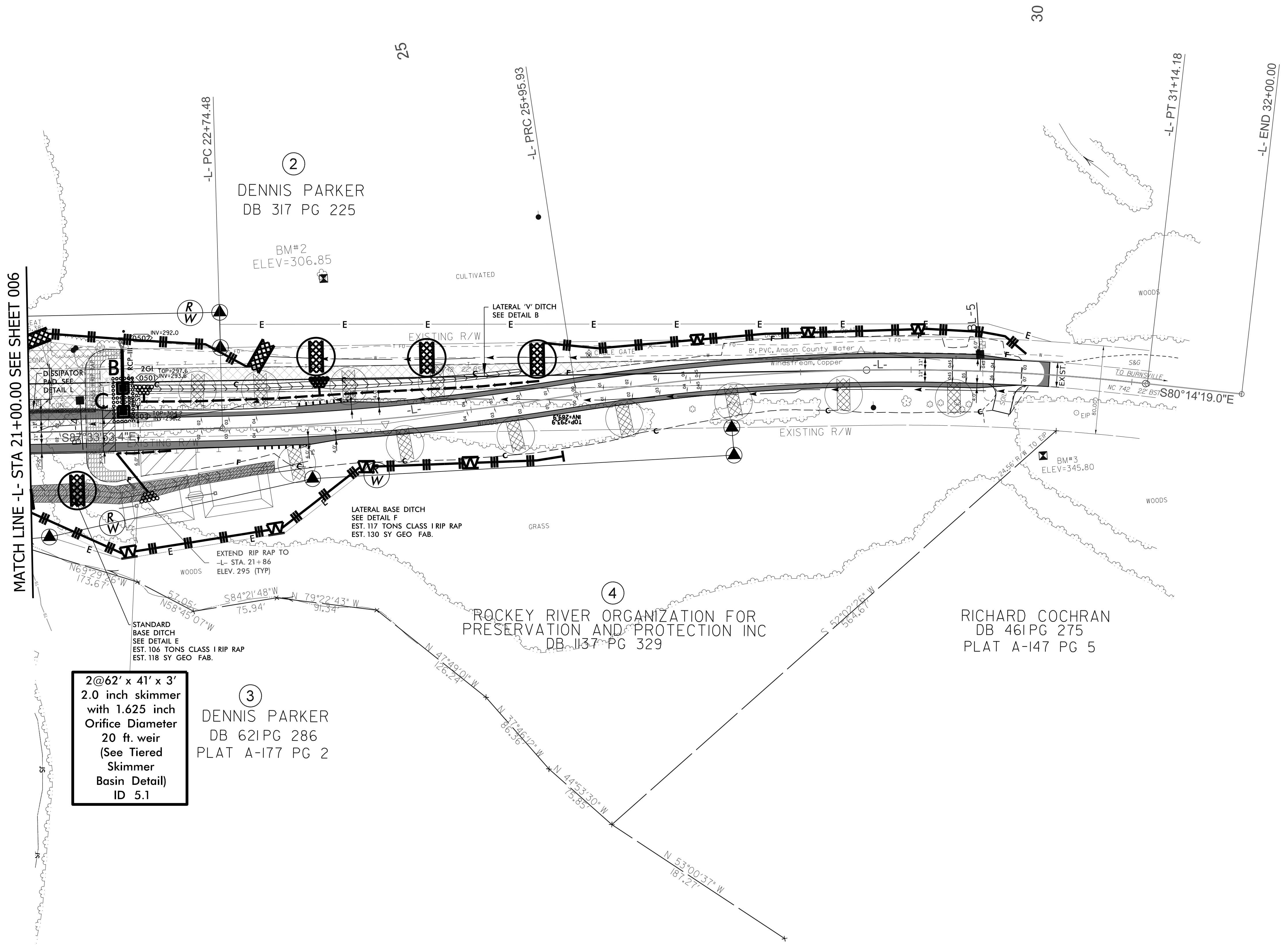
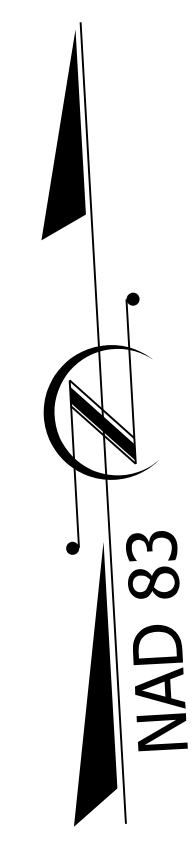
HYDRAULICS ENGINEER



PREPARED BY
ARCADIS
115 RESERVACY WOODS PLACE, SUITE 400, CARY, NC 27513
 PHONE: 919-841-2200, WWW.ARCADIS.COM

CUR DATA -L-
 P/c 24+35.44
 $\Delta c = 07^{\circ}40'26.8''$ (LT)
 D = 02'23'14.4"
 Lc = 321.4529"
 Tc = 160.9672"
 R = 2400.0000"
 V = 50MPH
 SE = 0.04

CUR DATA -L-
 P/c 28+56.59
 $\Delta c = 15^{\circ}13'39.3''$ (RT)
 D = 02'56'17.7"
 Lc = 518.2542"
 Tc = 260.6632"
 R = 1950.0000"
 V = 50MPH
 SE = 0.045



Install Matting for Erosion Control on Entire Slope as Work Allows.
 SEE EC-3 FOR STATION RANGES

FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 5

2@62' x 41' x 3'
 2.0 inch skimmer
 with 1.625 inch
 Orifice Diameter
 20 ft. weir
 (See Tiered
 Skimmer
 Basin Detail)
 ID 5.1

3
 DENNIS PARKER
 DB 621 PG 286
 PLAT A-177 PG 2

4
 ROCKEY RIVER ORGANIZATION FOR
 PRESERVATION AND PROTECTION INC
 DB 1137 PG 329

RICHARD COCHRAN
 DB 461 PG 275
 PLAT A-147 PG 5

REVISIONS