



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

May 04, 2022

Addendum No. 1

RE: Contract # C204621

WBS # 49079.3.1

STATE FUNDED

Surry County (BR-0048)

BRIDGE 103 ON NC-268 OVER MITCHELL RIVER

May 17, 2022 Letting

To Whom It May Concern:

Reference is made to the plans and proposal form furnished to you on this project.

The following revisions have been made to the Roadway plans.

Sheet No.	Revision
1A	Revised to add 3 additional standards
3D-1	Updated quantities and elevations to reflect new design
4	Revised drainage to avoid gas line conflict. Revised Drainage Structures 404 and 405. Added Drainage Structure 411
EC-4	Revised EC measures to reflect change in drainage
EC-5	Revised EC measures to reflect change in drainage

Please void the above listed Sheets in your plans and staple the revised Sheets thereto.

The following revisions have been made to the proposal.

Page No.	Revision
Proposal Cover	Note added that reads "Includes Addendum No. 1 Dated 5-04-2022".
Table of Contents	Under Project Special Provisions , NOTE TO CONTRACTOR has been revised to NOTES TO CONTRACTOR
G-42 thru G-43	The Project Special Provision NOTE TO CONTRACTOR has been revised to NOTES TO CONTRACTOR and the provision has been revised to add an additional note.

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
CONTRACT STANDARDS AND DEVELOPMENT
1591 MAIL SERVICE CENTER
RALEIGH, NC 27699-1591

Telephone: (919) 707-6900
Fax: (919) 250-4127
Customer Service: 1-877-368-4968

Location:
1020 BIRCH RIDGE DR.
RALEIGH, NC 27610

Website: www.ncdot.gov

Please void the above listed existing Pages in your proposal and staple the revised Pages thereto.

On the item sheets the following pay item revisions have been made:

<u>Item</u>	<u>Description</u>	<u>Old Quantity</u>	<u>New Quantity</u>
0015-0335300000-E-305	18" DRAINAGE PIPE	220 LF	260 LF
0035-2286000000-N-840	MASONRY DRAINAGE STRUCTURES	4 EA	5 EA
0036-2365000000-N-840	FRAME WITH TWO GRATES, STD 840.22	2 EA	1 EA
0037-2367000000-N-840	FRAME WITH TWO GRATES, STD 840.29	2 EA	3 EA
0123-2396000000-N-840	FRAME WITH COVER, STD 840.54	NEW ITEM	1 EA

The Contractor's bid must include these pay item revisions.

The electronic bidding file has been updated to reflect these revisions. Please download the Addendum File and follow the instructions for applying the addendum. Bid Express will not accept your bid unless the addendum has been applied.

The contract will be prepared accordingly.

Sincerely,

DocuSigned by:

 F81B6038A47A442...

Ronald E. Davenport, Jr., PE
 State Contract Officer

RED/jjr
 Attachments

cc: Mr. Lamar Sylvester, PE
Mr. Michael A. Pettyjohn, PE
Mr. Boyd Tharrington, PE
Mr. Jon Weathersbee, PE
Mr. Ken Kennedy, PE
Project File (2)

Mr. Forrest Dungan, PE
Ms. Jaci Kincaid
Mr. Kyle Kempf
Ms. Lori Strickland
Mr. Mike Gwyn
Ms. Penny Higgins

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH, N.C.

PROPOSAL

INCLUDES ADDENDUM No.1 DATED 05-04-2022

DATE AND TIME OF BID OPENING: **MAY 17, 2022 AT 2:00 PM**

CONTRACT ID C204621

WBS 49079.3.1

FEDERAL-AID NO. STATE FUNDED

COUNTY SURRY

T.I.P. NO. BR-0048

MILES 0.260

ROUTE NO. NC 268

LOCATION BRIDGE 103 ON NC-268 OVER MITCHELL RIVER.

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

NOTICE:

ALL BIDDERS SHALL COMPLY WITH ALL APPLICABLE LAWS REGULATING THE PRACTICE OF GENERAL CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA WHICH REQUIRES THE BIDDER TO BE LICENSED BY THE N.C. LICENSING BOARD FOR CONTRACTORS WHEN BIDDING ON ANY NON-FEDERAL AID PROJECT WHERE THE BID IS \$30,000 OR MORE, EXCEPT FOR CERTAIN SPECIALTY WORK AS DETERMINED BY THE LICENSING BOARD. BIDDERS SHALL ALSO COMPLY WITH ALL OTHER APPLICABLE LAWS REGULATING THE PRACTICES OF ELECTRICAL, PLUMBING, HEATING AND AIR CONDITIONING AND REFRIGERATION CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA. NOTWITHSTANDING THESE LIMITATIONS ON BIDDING, THE BIDDER WHO IS AWARDED ANY FEDERAL - AID FUNDED PROJECT SHALL COMPLY WITH CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA FOR LICENSING REQUIREMENTS WITHIN 60 CALENDAR DAYS OF BID OPENING.

BIDS WILL BE RECEIVED AS SHOWN BELOW:

THIS IS A ROADWAY & STRUCTURE PROPOSAL

5% BID BOND OR BID DEPOSIT REQUIRED

County : Surry

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
ROADWAY ITEMS						
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	0000400000-N	801	CONSTRUCTION SURVEYING	Lump Sum	L.S.	
0003	0022000000-E	225	UNCLASSIFIED EXCAVATION	19,800 CY		
0004	0028000000-N	SP	TYPE I STANDARD APPROACH FILL STATION ***** (18+50.00 -L-)	Lump Sum	L.S.	
0005	0050000000-E	226	SUPPLEMENTARY CLEARING & GRUB- BING	1 ACR		
0006	0057000000-E	226	UNDERCUT EXCAVATION	500 CY		
0007	0063000000-N	SP	GRADING	Lump Sum	L.S.	
0008	0134000000-E	240	DRAINAGE DITCH EXCAVATION	10 CY		
0009	0195000000-E	265	SELECT GRANULAR MATERIAL	200 CY		
0010	0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZA- TION	600 SY		
0011	0199000000-E	SP	TEMPORARY SHORING	175 SF		
0012	0318000000-E	300	FOUNDATION CONDITIONING MATE- RIAL, MINOR STRUCTURES	50 TON		
0013	0320000000-E	300	FOUNDATION CONDITIONING GEO- TEXTILE	140 SY		
0014	0335200000-E	305	15" DRAINAGE PIPE	172 LF		
0015	0335300000-E	305	18" DRAINAGE PIPE	260 LF		
0016	0335850000-E	305	*** DRAINAGE PIPE ELBOWS (15")	4 EA		
0017	0335850000-E	305	*** DRAINAGE PIPE ELBOWS (18")	4 EA		
0018	0995000000-E	340	PIPE REMOVAL	31 LF		
0019	1099500000-E	505	SHALLOW UNDERCUT	100 CY		

County : Surry

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0020	1099700000-E	505	CLASS IV SUBGRADE STABILIZATION	200 TON		
0021	1121000000-E	520	AGGREGATE BASE COURSE	251 TON		
0022	1220000000-E	545	INCIDENTAL STONE BASE	50 TON		
0023	1330000000-E	607	INCIDENTAL MILLING	270 SY		
0024	1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0C	750 TON		
0025	1503000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	740 TON		
0026	1519000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	750 TON		
0027	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	120 TON		
0028	1693000000-E	654	ASPHALT PLANT MIX, PAVEMENT REPAIR	15 TON		
0029	2022000000-E	815	SUBDRAIN EXCAVATION	45 CY		
0030	2026000000-E	815	GEOTEXTILE FOR SUBSURFACE DRAINS	200 SY		
0031	2036000000-E	815	SUBDRAIN COARSE AGGREGATE	34 CY		
0032	2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	200 LF		
0033	2070000000-N	815	SUBDRAIN PIPE OUTLET	1 EA		
0034	2077000000-E	815	6" OUTLET PIPE	6 LF		
0035	2286000000-N	840	MASONRY DRAINAGE STRUCTURES	5 EA		
0036	2365000000-N	840	FRAME WITH TWO GRATES, STD 840.22	1 EA		
0037	2367000000-N	840	FRAME WITH TWO GRATES, STD 840.29	3 EA		
0038	2556000000-E	846	SHOULDER BERM GUTTER	285 LF		

County : Surry

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0039	3030000000-E	862	STEEL BEAM GUARDRAIL	437.5		LF
0040	3150000000-N	862	ADDITIONAL GUARDRAIL POSTS	5		EA
0041	3287000000-N	SP	GUARDRAIL END UNITS, TYPE TL-3	4		EA
0042	3317000000-N	SP	GUARDRAIL ANCHOR UNITS, TYPE B-77	4		EA
0043	3380000000-E	862	TEMPORARY STEEL BEAM GUARDRAIL	250		LF
0044	3387000000-N	SP	TEMPORARY GUARDRAIL ANCHOR UNITS, TYPE ***** (III MODIFIED)	2		EA
0045	3389150000-N	SP	TEMPORARY GUARDRAIL END UNITS, TYPE ***** (TL-3)	2		EA
0046	3628000000-E	876	RIP RAP, CLASS I	44		TON
0047	3649000000-E	876	RIP RAP, CLASS B	67		TON
0048	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	1,716		SY
0049	4072000000-E	903	SUPPORTS, 3-LB STEEL U-CHANNEL	270		LF
0050	4096000000-N	904	SIGN ERECTION, TYPE D	2		EA
0051	4102000000-N	904	SIGN ERECTION, TYPE E	11		EA
0052	4108000000-N	904	SIGN ERECTION, TYPE F	3		EA
0053	4116100000-N	904	SIGN ERECTION, RELOCATE TYPE **** (GROUND MOUNTED) (E)	2		EA
0054	4155000000-N	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	20		EA
0055	4192000000-N	907	DISPOSAL OF SUPPORT, U-CHANNEL	1		EA
0056	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	204		SF
0057	4405000000-E	1110	WORK ZONE SIGNS (PORTABLE)	112		SF

County : Surry

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0058	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	66	SF	
0059	4420000000-N	1120	PORTABLE CHANGEABLE MESSAGE SIGN	2	EA	
0060	4424500000-N	SP	TEMPORARY PORTABLE TRAFFIC SIGNAL SYSTEM	1	EA	
0061	4430000000-N	1130	DRUMS	80	EA	
0062	4445000000-E	1145	BARRICADES (TYPE III)	64	LF	
0063	4455000000-N	1150	FLAGGER	150	DAY	
0064	4465000000-N	1160	TEMPORARY CRASH CUSHIONS	2	EA	
0065	4485000000-E	1170	PORTABLE CONCRETE BARRIER	450	LF	
0066	4650000000-N	1251	TEMPORARY RAISED PAVEMENT MARKERS	70	EA	
0067	4770000000-E	1205	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (IV)	976	LF	
0068	4810000000-E	1205	PAINT PAVEMENT MARKING LINES (4")	4,568	LF	
0069	4835000000-E	1205	PAINT PAVEMENT MARKING LINES (24")	24	LF	
0070	4890000000-E	SP	GENERIC PAVEMENT MARKING ITEM POLYUREA PAVEMENT MARKING LINES, 4", 20 MILS (STANDARD GLASS BEADS)	5,640	LF	
0071	4895000000-N	SP	GENERIC PAVEMENT MARKING ITEM NON-CAST IRON SNOWPLOWABLE PAVEMENT MARKER	20	EA	
0072	4900000000-N	1251	PERMANENT RAISED PAVEMENT MARKERS	7	EA	
0073	6000000000-E	1605	TEMPORARY SILT FENCE	1,950	LF	
0074	6006000000-E	1610	STONE FOR EROSION CONTROL, CLASS A	210	TON	

County : Surry

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0075	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	1,245 TON		
0076	6012000000-E	1610	SEDIMENT CONTROL STONE	775 TON		
0077	6015000000-E	1615	TEMPORARY MULCHING	5.5 ACR		
0078	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	400 LB		
0079	6021000000-E	1620	FERTILIZER FOR TEMPORARY SEED- ING	2 TON		
0080	6024000000-E	1622	TEMPORARY SLOPE DRAINS	200 LF		
0081	6029000000-E	SP	SAFETY FENCE	720 LF		
0082	6030000000-E	1630	SILT EXCAVATION	675 CY		
0083	6036000000-E	1631	MATTING FOR EROSION CONTROL	9,000 SY		
0084	6037000000-E	SP	COIR FIBER MAT	380 SY		
0085	6038000000-E	SP	PERMANENT SOIL REINFORCEMENT MAT	425 SY		
0086	6042000000-E	1632	1/4" HARDWARE CLOTH	375 LF		
0087	6048000000-E	SP	FLOATING TURBIDITY CURTAIN	585 SY		
0088	6070000000-N	1639	SPECIAL STILLING BASINS	15 EA		
0089	6071014000-E	SP	COIR FIBER WATTLE BARRIER	1,210 LF		
0090	6071020000-E	SP	POLYACRYLAMIDE (PAM)	345 LB		
0091	6071030000-E	1640	COIR FIBER BAFFLE	120 LF		
0092	6084000000-E	1660	SEEDING & MULCHING	6 ACR		
0093	6087000000-E	1660	MOWING	3 ACR		
0094	6090000000-E	1661	SEED FOR REPAIR SEEDING	100 LB		

County : Surry

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0095	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	0.25	TON	
0096	6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	150	LB	
0097	6108000000-E	1665	FERTILIZER TOPDRESSING	4.25	TON	
0098	6111000000-E	SP	IMPERVIOUS DIKE	100	LF	
0099	6114500000-N	1667	SPECIALIZED HAND MOWING	10	MHR	
0100	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	15	EA	
0101	6117500000-N	SP	CONCRETE WASHOUT STRUCTURE	2	EA	
0123	2396000000-N	840	FRAME WITH COVER, STD 840.54	1	EA	

STRUCTURE ITEMS

0102	8017000000-N	SP	CONSTRUCTION, MAINTENANCE, & REMOVAL OF TEMP ACCESS AT STA ***** (18+50.00 -L-)	Lump Sum	L.S.	
0103	8028000000-N	SP	REMOVAL OF EXISTING STRUCTURES AT STATION ***** (18+50.00 -L-)	Lump Sum	L.S.	
0104	8065000000-N	SP	ASBESTOS ASSESSMENT	Lump Sum	L.S.	
0105	8105560000-E	411	4'-0" DIA DRILLED PIERS IN SOIL	98.5	LF	
0106	8105660000-E	411	4'-0" DIA DRILLED PIERS NOT IN SOIL	68	LF	
0107	8111600000-E	411	PERMANENT STEEL CASING FOR 4'-0" DIA DRILLED PIER	69.5	LF	
0108	8115000000-N	411	CSL TESTING	2	EA	
0109	8121000000-N	412	UNCLASSIFIED STRUCTURE EXCAVA- TION AT STATION ***** (18+50.00 -L-)	Lump Sum	L.S.	

County : Surry

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0110	8147000000-E	420	REINFORCED CONCRETE DECK SLAB	8,587 SF		
0111	8161000000-E	420	GROOVING BRIDGE FLOORS	8,217 SF		
0112	8182000000-E	420	CLASS A CONCRETE (BRIDGE)	177.1 CY		
0113	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (18+50.00 -L-)	Lump Sum	L.S.	
0114	8217000000-E	425	REINFORCING STEEL (BRIDGE)	32,158 LB		
0115	8238000000-E	425	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)	7,347 LB		
0116	8274000000-E	430	MODIFIED 63" PRESTRESSED CONC GIRDERS	845 LF		
0117	8328200000-E	450	PILE DRIVING EQUIPMENT SETUP FOR *** STEEL PILES (HP 12 X 53)	14 EA		
0118	8364000000-E	450	HP12X53 STEEL PILES	420 LF		
0119	8503000000-E	460	CONCRETE BARRIER RAIL	426.67 LF		
0120	8608000000-E	876	RIP RAP CLASS II (2'-0" THICK)	1,000 TON		
0121	8622000000-E	876	GEOTEXTILE FOR DRAINAGE	1,090 SY		
0122	8657000000-N	430	ELASTOMERIC BEARINGS	Lump Sum	L.S.	

1614/May03/Q120808.27/D531465734000/E123

Total Amount Of Bid For Entire Project :

During the Environmental Assessment required by Article 230-4 of the *2018 Standard Specifications*, the Contractor shall define the point at which the discharge enters into the State's surface waters and the appropriate sampling locations. Sampling locations shall include points upstream and downstream from the point at which the discharge enters these waters. Upstream sampling location shall be located so that it is not influenced by backwater conditions and represents natural background conditions. Downstream sampling location shall be located at the point where complete mixing of the discharge and receiving water has occurred.

The discharge shall be closely monitored when water from the dewatering activities is introduced into jurisdictional wetlands. Any time visible sedimentation (deposition of sediment) on the wetland surface is observed, the dewatering activity will be suspended until turbidity levels in the stilling basin can be reduced to a level where sediment deposition does not occur. Staining of wetland surfaces from suspended clay particles, occurring after evaporation or infiltration, does not constitute sedimentation. No activities shall occur in wetlands that adversely affect the functioning of a wetland. Visible sedimentation will be considered an indication of possible adverse impacts on wetland use.

The Engineer will perform independent turbidity tests on a random basis. These results will be maintained in a log within the project records. Records will include, at a minimum, turbidity test results, time, date and name of sampler. Should the Department's test results exceed those of the Contractor's test results, an immediate test shall be performed jointly with the results superseding the previous test results of both the Department and the Contractor.

The Contractor shall use the *NCDOT Turbidity Reduction Options for Borrow Pits Matrix*, available at <https://connect.ncdot.gov/resources/roadside/FieldOperationsDocuments/TurbidityReductionOptionSheet.pdf> to plan, design, construct, and maintain BMPs to address water quality standards. Tier I Methods include stilling basins which are standard compensatory BMPs. Other Tier I methods are noncompensatory and shall be used when needed to meet the stream turbidity standards. Tier II Methods are also noncompensatory and are options that may be needed for protection of rare or unique resources or where special environmental conditions exist at the site which have led to additional requirements being placed in the DWQ's 401 Certifications and approval letters, Isolated Wetland Permits, Riparian Buffer Authorization or a DOT Reclamation Plan's Environmental Assessment for the specific site. Should the Contractor exhaust all Tier I Methods on a site exclusive of rare or unique resources or special environmental conditions, Tier II Methods may be required by regulators on a case by case basis per supplemental agreement.

The Contractor may use cation exchange capacity (CEC) values from proposed site borings to plan and develop the bid for the project. CEC values exceeding 15 milliequivalents per 100 grams of soil may indicate a high potential for turbidity and should be avoided when dewatering into surface water is proposed.

No additional compensation for monitoring borrow pit discharge will be paid.

NOTES TO CONTRACTOR:

1. The Contractor's attention is directed to page P-4, Special Condition Number 3, of the project permit. The contractor is made aware Mitchell River is occasionally used by paddlers. Contractor personnel shall be aware of this and monitor the area for river users. Applicable work on the bridge

shall be halted if a paddler or other river user is seen approaching the bridge. All overhead work shall be paused until river users safely leave the area.

2. Contact Ted Gambill, FNGC Technical Services, (office phone 336-526-2690, email tgambill@egas.net) one week prior to construction in order for them to have an inspector on site for facility protection.

TABLE OF CONTENTS

**COVER SHEET
PROPOSAL SHEET**

PROJECT SPECIAL PROVISIONS

CONTRACT TIME AND LIQUIDATED DAMAGES: G-1
INTERMEDIATE CONTRACT TIME NUMBER 1 AND LIQUIDATED DAMAGES: G-1
INTERMEDIATE CONTRACT TIME NUMBER 2 AND LIQUIDATED DAMAGES: G-2
INTERMEDIATE CONTRACT TIME NUMBER 3 AND LIQUIDATED DAMAGES: G-2
INTERMEDIATE CONTRACT TIME NUMBER 4 AND LIQUIDATED DAMAGES: G-3
PERMANENT VEGETATION ESTABLISHMENT:..... G-3
MAJOR CONTRACT ITEMS: G-4
SPECIALTY ITEMS:..... G-4
FUEL PRICE ADJUSTMENT:..... G-4
STEEL PRICE ADJUSTMENT:..... G-5
SCHEDULE OF ESTIMATED COMPLETION PROGRESS:..... G-17
MINORITY BUSINESS ENTERPRISE AND WOMEN BUSINESS ENTERPRISE: G-17
RESTRICTIONS ON ITS EQUIPMENT AND SERVICES:..... G-32
USE OF UNMANNED AIRCRAFT SYSTEM (UAS): G-32
EQUIPMENT IDLING GUIDELINES:..... G-33
SUBSURFACE INFORMATION:..... G-33
MAINTENANCE OF THE PROJECT: G-33
ELECTRONIC BIDDING:..... G-34
AWARD LIMITS: G-35
TWELVE MONTH GUARANTEE:..... G-35
OUTSOURCING OUTSIDE THE USA: G-36
EROSION AND SEDIMENT CONTROL/STORMWATER CERTIFICATION: G-36
PROCEDURE FOR MONITORING BORROW PIT DISCHARGE:..... G-41
NOTES TO CONTRACTOR:.....G-42

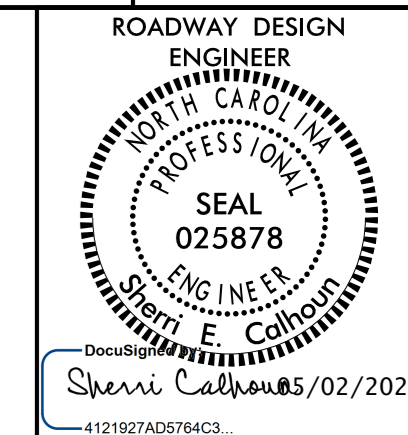
ROADWAY R-1

STANDARD SPECIAL PROVISIONS

AVAILABILITY FUNDS – TERMINATION OF CONTRACTS SSP-1
NCDOT GENERAL SEED SPECIFICATION FOR SEED QUALITY SSP-2
ERRATA..... SSP-5
PLANT AND PEST QUARANTINES SSP-7
MINIMUM WAGES SSP-8
TITLE VI AND NONDISCRIMINATION SSP-9
ON-THE-JOB TRAINING SSP-17

UNIT PROJECT SPECIAL PROVISIONS

GEOTECHNICALGT-0.1
PAVEMENT MARKINGS..... PM-1
TRAFFIC CONTROL TC-1



**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A-1 THRU 2A-2	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2C-1	GUARDRAIL INSTALLATION DETAIL
2C-2	DETAIL OF STRUCTURE ANCHOR UNIT TYPE III MODIFIED
2G-1	TEMPORARY SHORING DETAIL
3B-1	ROADWAY SUMMARIES
3D-1	DRAINAGE SUMMARIES
3G-1	GEOTECHNICAL SUMMARIES
4 THRU 5	PLAN AND PROFILE PLANS
RW01 THRU RW04	RIGHT OF WAY SHEETS
TMP-1 THRU TMP-8	TRAFFIC MANAGEMENT PLANS
PMP-1 THRU PMP-2	PAVEMENT MARKING PLANS
EC-1 THRU EC-5	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-3	SIGNING PLANS
UD-1 THRU UD-2	UTILITIES BY OTHERS PLANS
X-1	CROSS-SECTION INDEX SHEET
X-1A	CROSS-SECTION SUMMARY SHEET
X-2 THRU X-15	CROSS-SECTIONS
S-1 THRU S-32	STRUCTURE PLANS

GENERAL NOTES: 2018 SPECIFICATIONS

**GRADE LINE:
GRADING AND SURFACING:**
THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

SUPERELEVATION:
ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SHOULDER CONSTRUCTION:
ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01

SIDE ROADS:
THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

SUBSURFACE DRAINS:
SUBSURFACE DRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.02 AT LOCATIONS DIRECTED BY THE ENGINEER.

GUARDRAIL:
THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

TEMPORARY SHORING:
SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC NOT SHOWN ON THE PLANS WILL BE PAID FOR AT THE CONTRACT PRICE FOR "TEMPORARY SHORING".

END BENTS:
THE ENGINEER SHALL CHECK THE STRUCTURE END BENT PLANS, DETAILS, AND CROSS-SECTION PRIOR TO SETTING OF THE SLOPE STAKES FOR THE EMBANKMENT OR EXCAVATION APPROACHING A BRIDGE.

UTILITIES:
UTILITY OWNERS ON THIS PROJECT ARE DUKE ENERGY
FRONTIER NATURAL GAS COMPANY
SURRY TELEPHONE MEMBERSHIP COOPERATIVE
SPECTRUM/CHARTER/TWC
ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS

RIGHT-OF-WAY MARKERS:
ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.

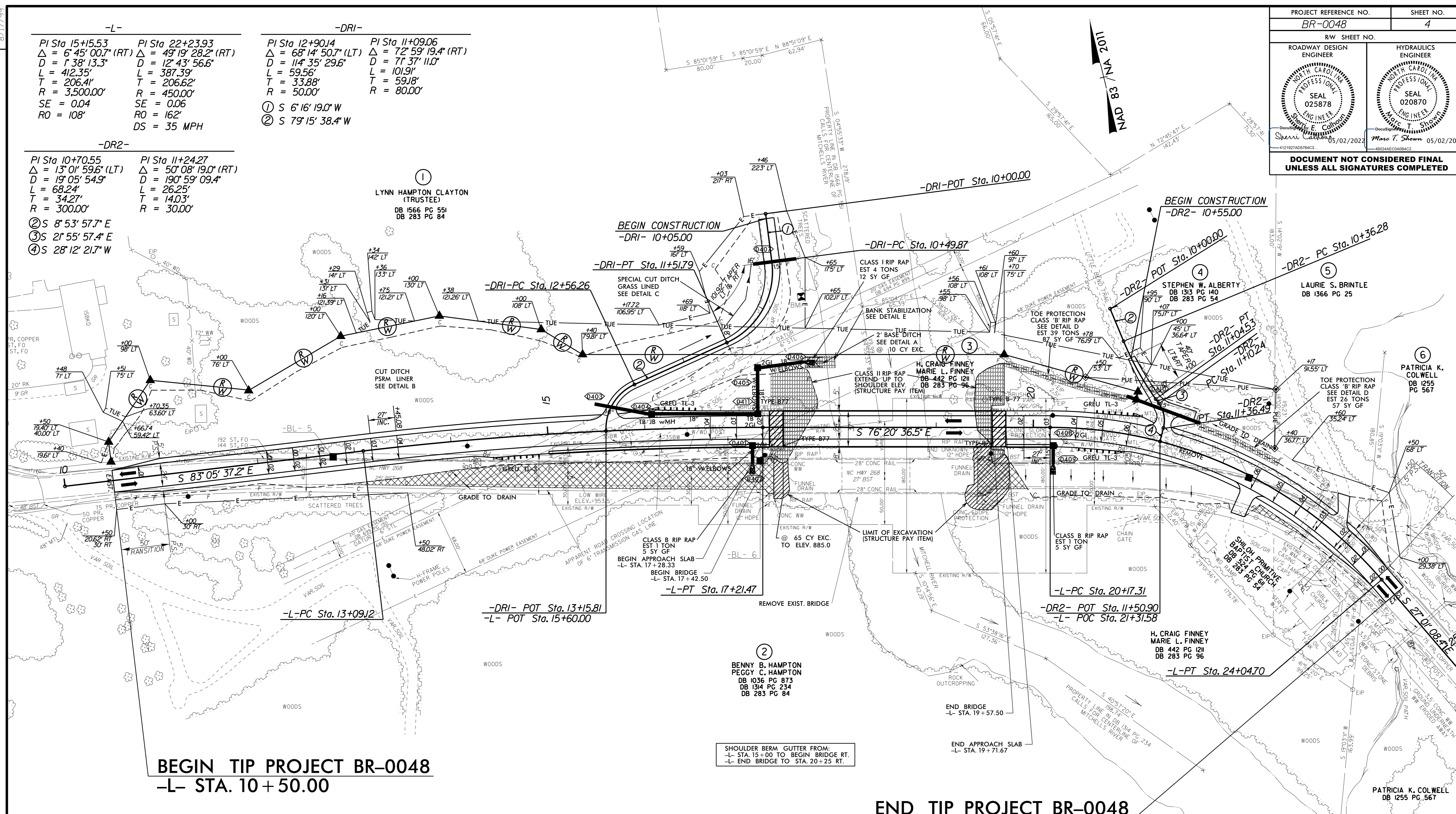
2018 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2018 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.03	Method of Clearing - Method III
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
DIVISION 4 - MAJOR STRUCTURES	
422.01	Bridge Approach Fills - Type I Standard Approach Fill
422.03	Reinforced Bridge Approach Fills - Type A Alternate Approach Fill for Integral Abutment
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs
DIVISION 8 - INCIDENTALS	
815.02	Subsurface Drain
840.00	Concrete Base Pad for Drainage Structures
840.18	Concrete Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.22	Frames and Wide Slot Sag Grates
840.25	Anchorage for Frames - Brick or Concrete or Precast
840.27	Brick Grated Drop Inlet Type 'B' - 12" thru 36" Pipe
840.29	Frames and Narrow Slot Flat Grates
840.34	Traffic Bearing Junction Box - for Use with Pipes 42" and Under
840.35	Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates
840.54	Manhole Frame and Cover
846.01	Concrete Curb, Gutter and Curb & Gutter
846.04	Drop Inlet Installation in Shoulder Berm Gutter
862.01	Guardrail Placement
862.02	Guardrail Installation (Special Detail for Sheet 6 of 8)
862.03	Structure Anchor Units
862.04	Anchoring End of Guardrail - B-77 and B-83 Anchor Units
876.02	Guide for Rip Rap at Pipe Outlets

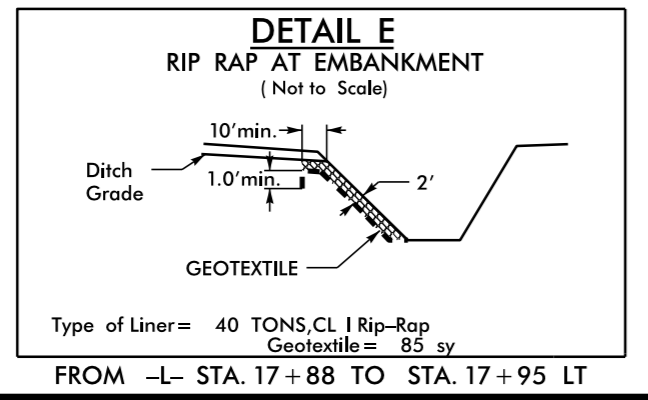
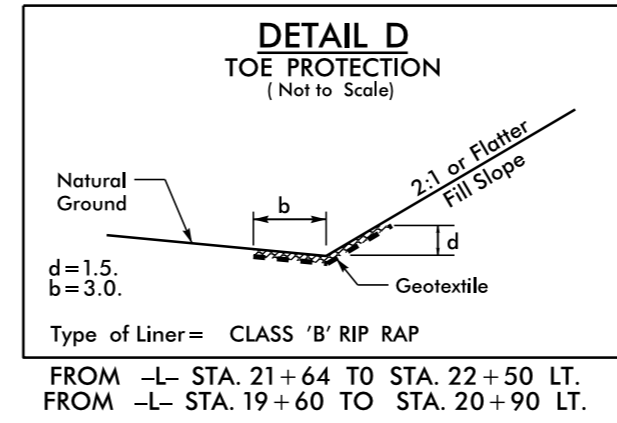
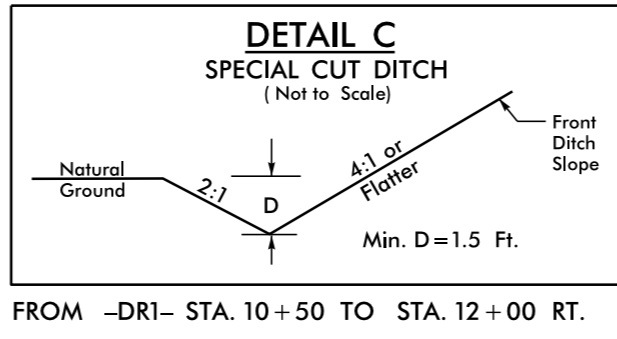
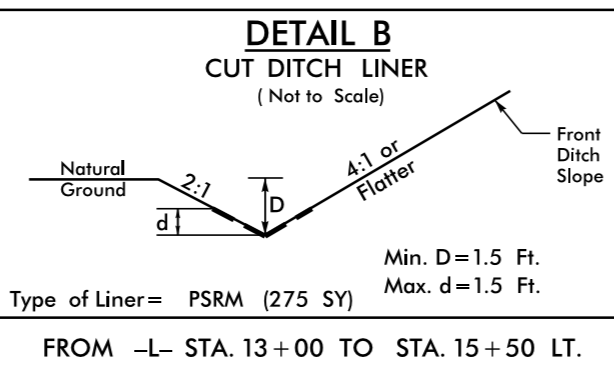
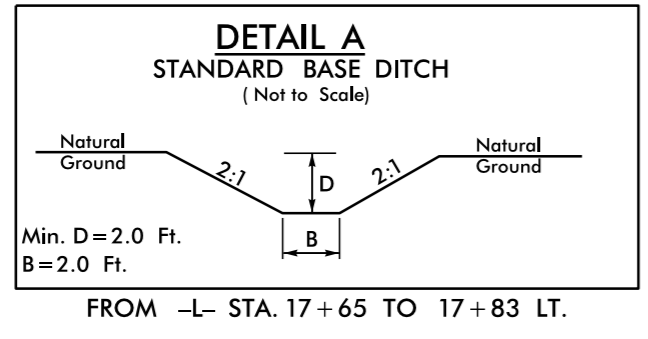
-L-		-DRI-	
PI Sta 15+15.53 Δ = 6' 45" 00.7" (RT) D = 1' 38" 13.3" L = 412.35' T = 206.41' R = 3.500.00' SE = 0.04 RO = 108'	PI Sta 22+23.93 Δ = 49' 19" 28.2" (RT) D = 12' 43" 56.6" L = 387.39' T = 206.62' R = 450.00' SE = 0.06 DS = 35 MPH	PI Sta 12+90.14 Δ = 68' 14" 50.7" (LT) D = 114' 35" 29.6" L = 59.56' T = 33.88' R = 50.00'	PI Sta 11+09.06 Δ = 72' 59" 19.4" (RT) D = 71' 37" 11.0" L = 101.91' T = 59.18' R = 80.00'
		① S 6' 16" 19.0" W ② S 79' 15" 38.4" W	

-DR2-	
PI Sta 10+70.55 Δ = 13' 01" 59.6" (LT) D = 19' 05" 54.9" L = 68.24' T = 34.27' R = 300.00'	PI Sta 11+24.27 Δ = 50' 08" 19.0" (RT) D = 190' 59" 09.4" L = 26.25' T = 14.03' R = 30.00'
② S 8' 53" 57.7" E ③ S 21' 55" 57.4" E ④ S 28' 12" 21.7" W	



BEGIN TIP PROJECT BR-0048
-L- STA. 10 + 50.00

END TIP PROJECT BR-0048
-L- STA. 24 + 25.00



NOTES:
ALL DRIVEWAY RADII ARE 10'
SEE SHEETS S-1 THRU S-32 FOR STRUCTURE PLANS
SEE SHEET 5 FOR PROFILES OF -L-, -DRI AND -DR2-

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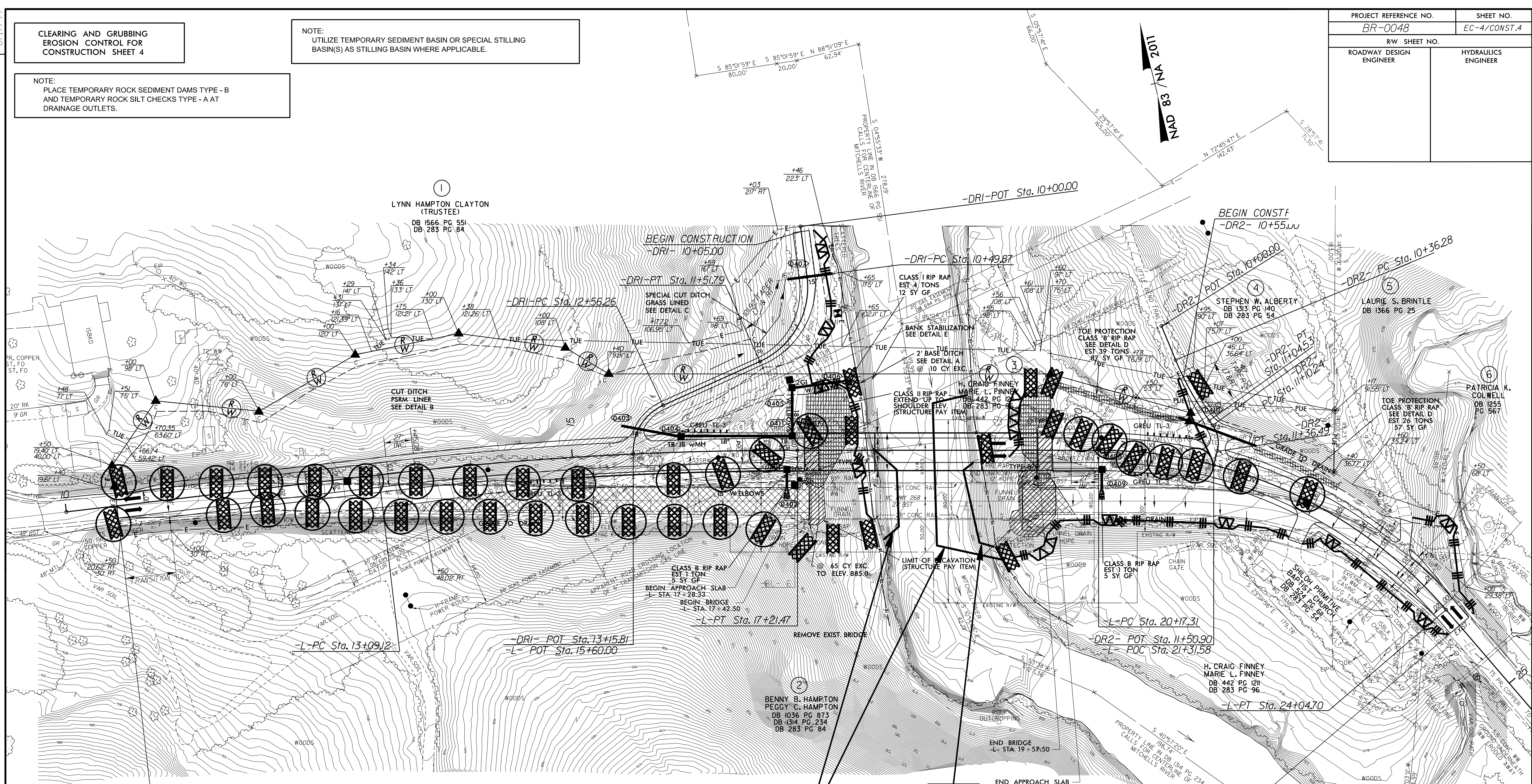
PROJECT REFERENCE NO.	SHEET NO.
BR-0048	EC-4/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

NOTE: UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

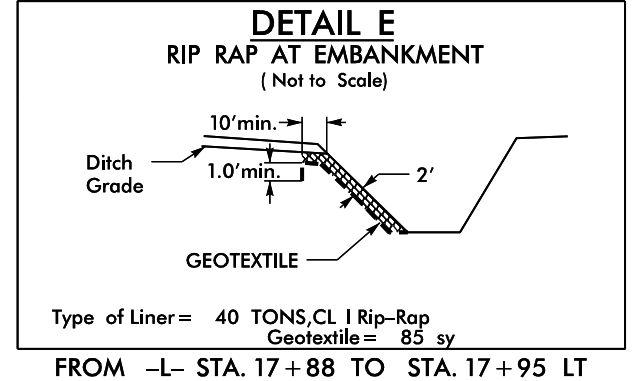
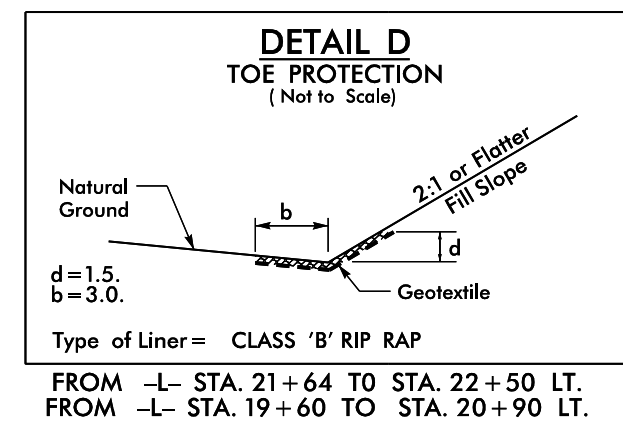
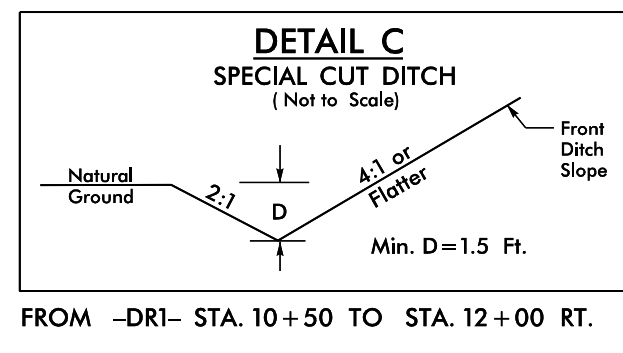
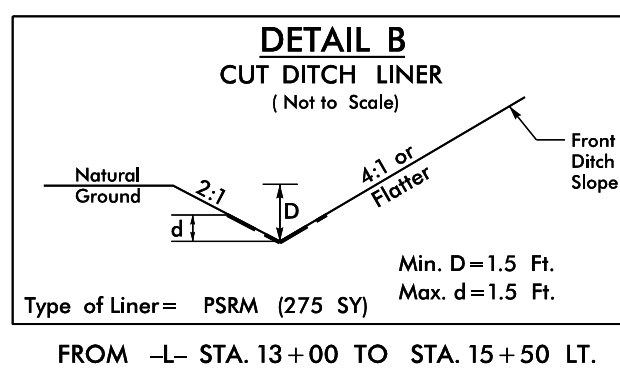
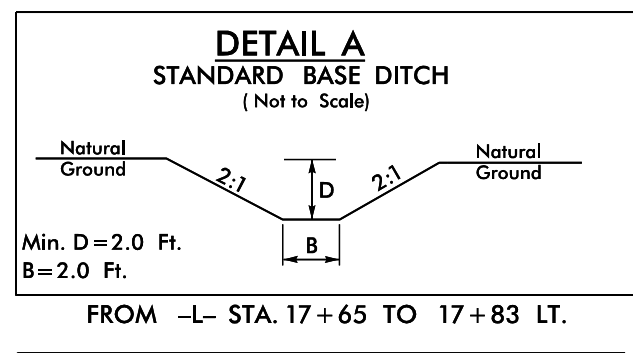
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

8.17.99



BEGIN TIP PROJECT BR-0048
-L- STA. 10+50.00

END TIP PROJECT BR-0048
-L- STA. 24+25.00



NOTES:
ALL DRIVEWAY RADII ARE 10'
SEE SHEETS S-1 THRU S-32 FOR STRUCTURE PLANS
SEE SHEET 5 FOR PROFILES OF -L-, -DRI AND -DR2-

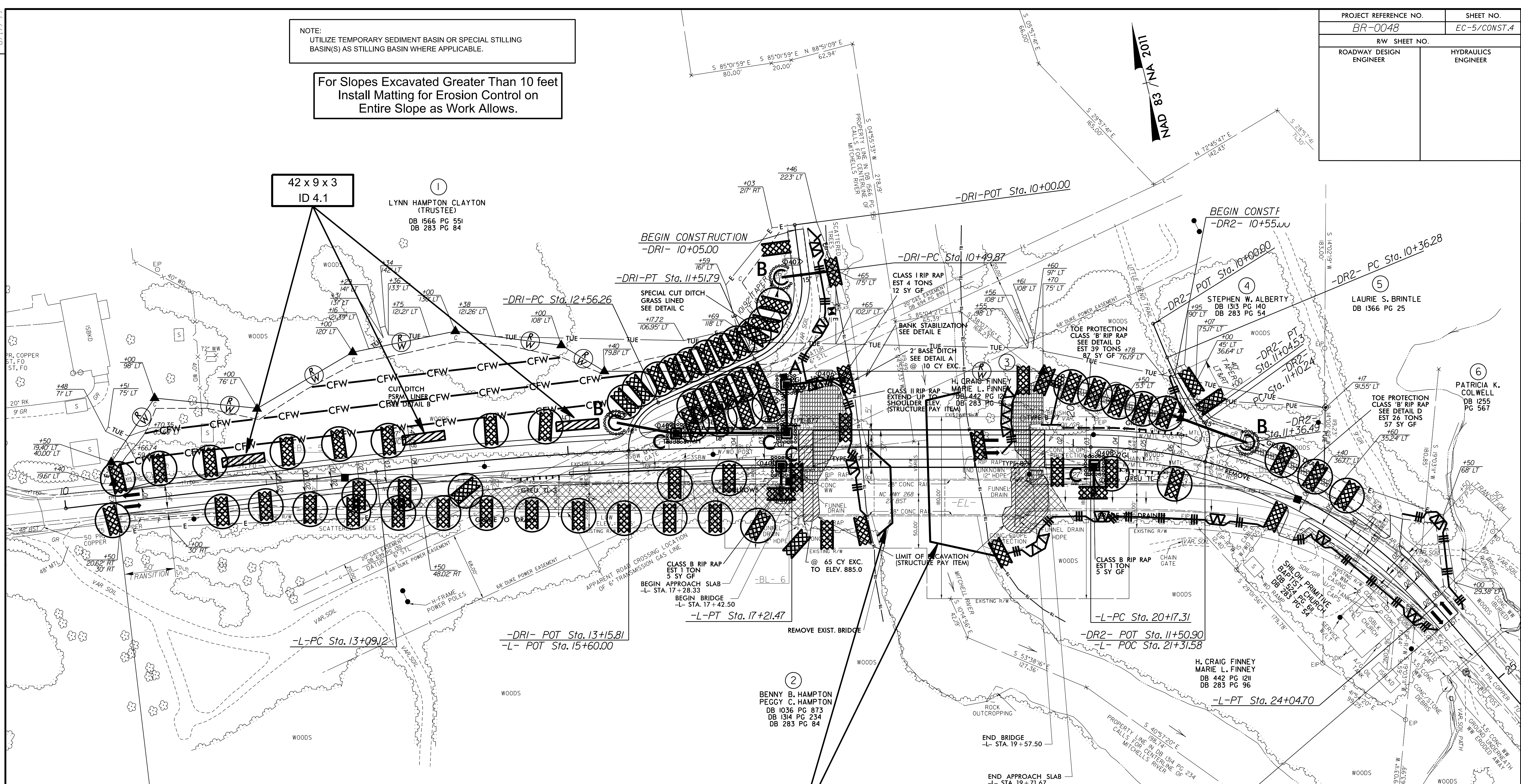
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PROJECT REFERENCE NO.	SHEET NO.
BR-0048	EC-5/CONST.4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

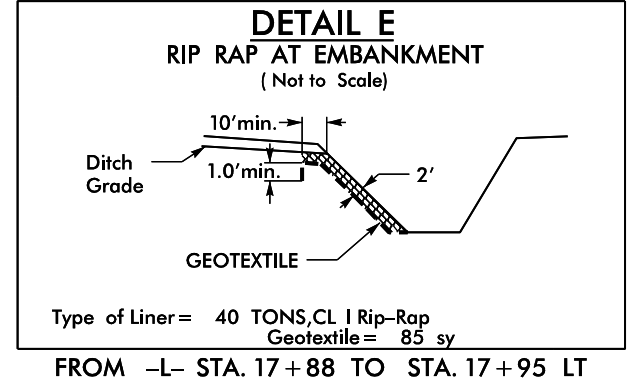
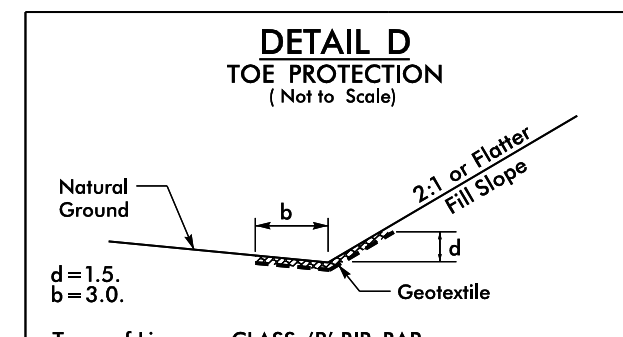
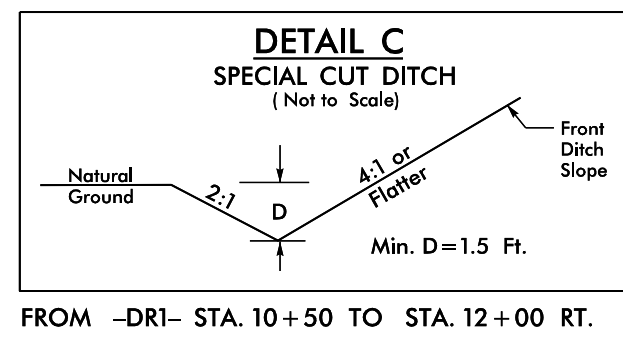
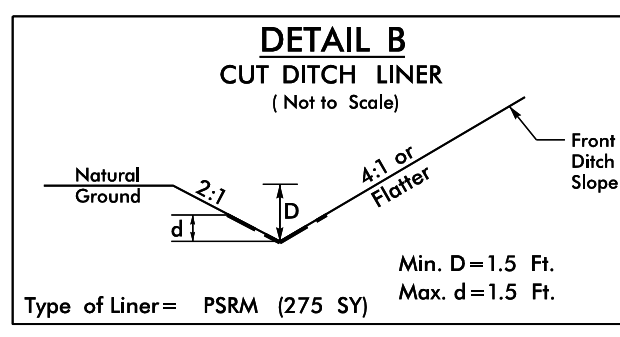
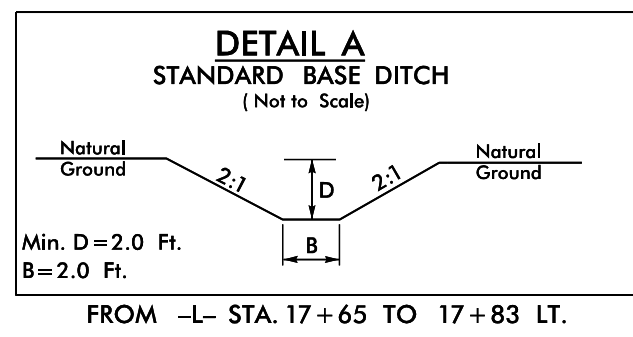
NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

For Slopes Excavated Greater Than 10 feet
Install Matting for Erosion Control on
Entire Slope as Work Allows.



BEGIN TIP PROJECT BR-0048
-L- STA. 10+50.00

END TIP PROJECT BR-0048
-L- STA. 24+25.00



Place Matting for Erosion Control
on Slope as Work Allows.
Sta. 16+00 to Sta. 17+30 -L- LT
Sta. 19+60 to 21+00 -L- LT

NOTES:
ALL DRIVEWAY RADII ARE 10'
SEE SHEETS S-1 THRU S-32 FOR STRUCTURE PLANS
SEE SHEET 5 FOR PROFILES OF -L-, -DRI AND -DR2-

REVISIONS

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