



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

ROY COOPER  
GOVERNOR

J. ERIC BOYETTE  
SECRETARY

August 12, 2022

**Addendum No. 1**

RE: Contract # C204714

WBS # 45764.3.1

STATE FUNDED

**Cabarrus County (B-5810)**

BRIDGE #22 OVER ROCKY RIVER ON EASTBOUND NC-24 AND NC-27

**August 16, 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
3D-1	Revised to reflect quantity change shown below

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

The following revisions have been made to the Erosion Control plans.

Sheet No.	Revision
EC-5	Revised to add note and remove impervious dike

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

The following revisions have been made to the proposal.

Page No.	Revision
Proposal Cover	Note added that reads "Includes Addendum No. 1 Dated 08-12-2022".
New Page P-4A	New page added denoting that minor changes were made to the permit and no modification was needed
P-44, P-45, P-49, P-50, P-51, P-52	Permit drawings revised to remove references to geotextile and impervious dikes

Please void the above listed existing Pages in your proposal and staple the revised Pages thereto. Staple New Page P-4A after existing Page P-4 in your proposal.

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>
0129-0448600000-E-310	36" RC PIPE CULVERTS, CLASS IV	NEW ITEM	220 LF

The Contractor's bid must include this pay item revision.

The electronic bidding file has been updated to reflect this revision. 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. Boyd Tharrington, PE  
 Mr. Brett D. Canipe, 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 08-12-2022**

DATE AND TIME OF BID OPENING: **Aug 16, 2022 AT 02:00 PM**

CONTRACT ID        C204714  
WBS                    45764.3.1

FEDERAL-AID NO.    STATE FUNDED  
COUNTY             CABARRUS  
T.I.P NO.            B-5810  
MILES                 0.221  
ROUTE NO.            NC-24  
LOCATION               BRIDGE #22 OVER ROCKY RIVER ON EASTBOUND NC-24 AND NC-27.

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**

---

**B-5810 Temporary riprap fill RE: NCDOT Question; DA# SAW-2022-01188.**

Hemphill, Jeffrey L <jhemphill@ncdot.gov>

Wed 8/10/2022 3:04 PM

To: Renn, Jeffrey J <jrenn@ncdot.gov>; Hackler, Nicole M <nmhackler@ncdot.gov>; Turchy, Michael A <maturchy@ncdot.gov>; Jason.Griscom@stvinc.com <Jason.Griscom@stvinc.com>; Howard, Joel M <jmhoward@ncdot.gov>; Baucom, Richard W <rwbaucom@ncdot.gov>; Haywood, Luther G <ghaywood@ncdot.gov>; Fischer, Kevin <wfkfischer@ncdot.gov>; Cole, Adam A <aacole@ncdot.gov>

All

This gives us the go ahead – permitting issues are satisfied for B-5810.

**Jeff Hemphill**

Environmental Coordinator

Environmental Coordination & Permitting

North Carolina Department of Transportation

**From:** Alsmeyer, Eric C CIV USARMY CESAW (USA) <Eric.C.Alsmeyer@usace.army.mil>

**Sent:** Wednesday, August 10, 2022 2:53 PM

**To:** Hemphill, Jeffrey L <jhemphill@ncdot.gov>; Chapman, Amy <amy.chapman@ncdenr.gov>

**Cc:** Turchy, Michael A <maturchy@ncdot.gov>

**Subject:** B-5810 RE: Temporary riprap fill RE: NCDOT Question; DA# SAW-2022-01188.

Jeff: I will add the revised drawings to the official record for this project. No mod is needed.

Eric

Eric Alsmeyer

Project Manager

**From:** Hemphill, Jeffrey L <[jhemphill@ncdot.gov](mailto:jhemphill@ncdot.gov)>

**Sent:** Wednesday, August 10, 2022 12:24 PM

**To:** Alsmeyer, Eric C CIV USARMY CESAW (USA) <[Eric.C.Alsmeyer@usace.army.mil](mailto:Eric.C.Alsmeyer@usace.army.mil)>; Chapman, Amy <[amy.chapman@ncdenr.gov](mailto:amy.chapman@ncdenr.gov)>

**Cc:** Turchy, Michael A <[maturchy@ncdot.gov](mailto:maturchy@ncdot.gov)>

**Subject:** B-5810 RE: Temporary riprap fill RE: NCDOT Question; DA# SAW-2022-01188.

All

The attached Revised Final Permit Drawings for B-5810 in Cabarrus County replace the permit drawings originally issued with the permit application on June 5, 2022. Minor technical changes to the drawing were made – these changes did not affect impacts from the project.

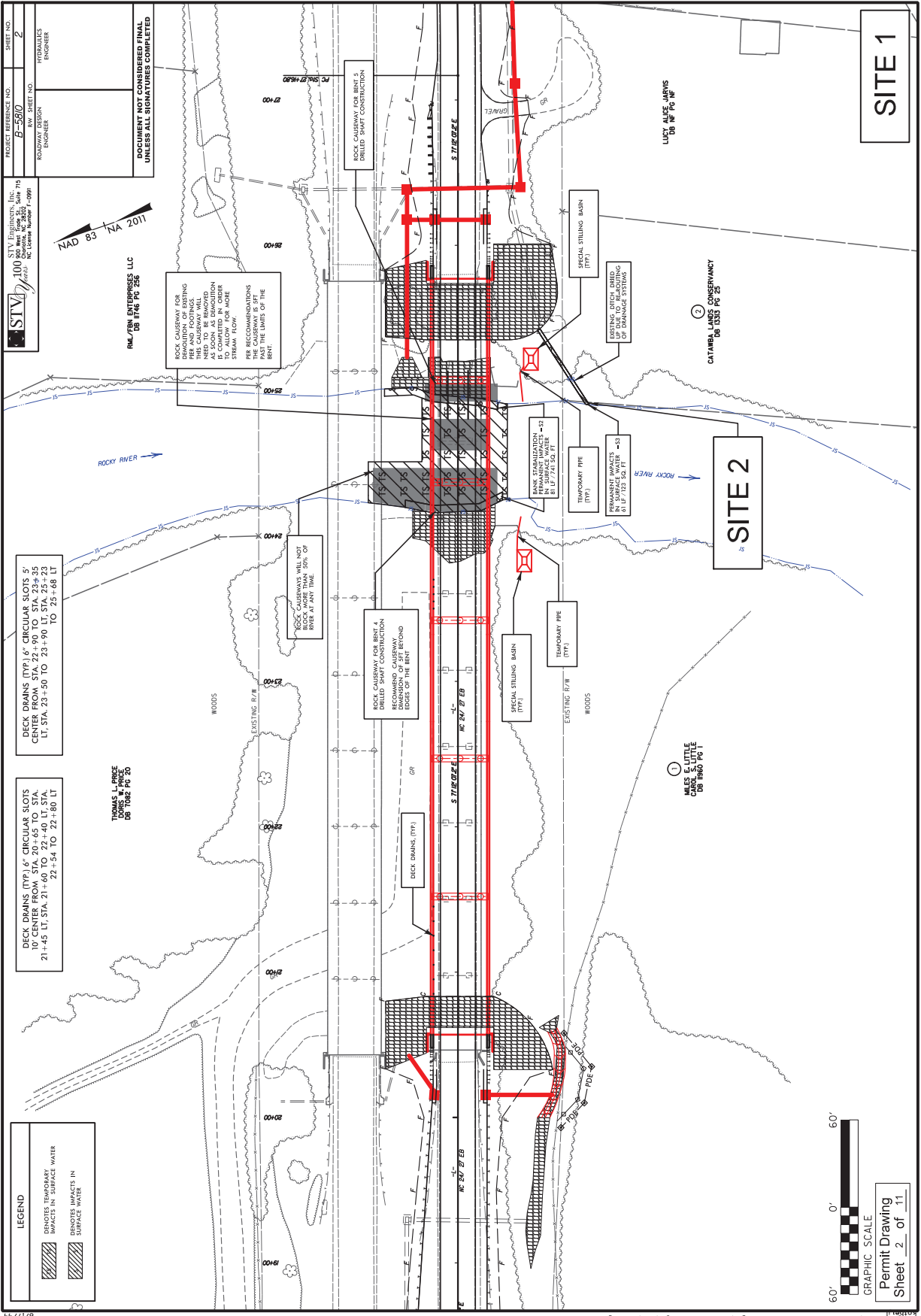
Thank you

**Jeff Hemphill**

Environmental Coordinator

Environmental Coordination & Permitting

North Carolina Department of Transportation



SITE 1

SITE 2

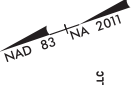
LUCY ALICE HAYS DB 100 PG 10

CATANBA LANDS CONSERVANCY DB 1335 PG 25

MILES & LITTLE CURRY & LITTLE DB 1900 PG 1

STV ENGINEERS, INC. 100 S. ST. JOHN STREET, SUITE 715, CHARLOTTE, NC 28202  
 STV ENGINEERS, INC. License Number 1-091

RML/FBN ENTERPRISES LLC DB 1746 PG 256



DECK DRAINS (TYP) 16" CIRCULAR SLOTS 10' CENTER FROM STA. 22+50 TO STA. 23+55  
 LT. STA. 23+50 TO 23+90 LT. STA. 23+23 TO 25+68 LT.

DECK DRAINS (TYP) 16" CIRCULAR SLOTS 10' CENTER FROM STA. 20+65 TO STA. 21+45  
 LT. STA. 21+60 TO 22+40 LT. STA. 22+54 TO 22+80 LT.

TOMAS & PRICE DB 708 PG 20

ROCK CAUSEWAY FOR BENT 4  
 DRILLED SHAFT CONSTRUCTION RECOMMEND CAUSEWAY BEYOND SIDES OF THE BENT.

ROCK CAISSENS WILL NOT BE EXPOSED AT ANY TIME 30% OF ROCK AT ANY TIME

ROCK CAUSEWAY FOR BENT 4  
 DRILLED SHAFT CONSTRUCTION RECOMMEND CAUSEWAY BEYOND SIDES OF THE BENT.

SPECIAL STILING BASIN (TYP)

TEMPORARY PIPE (TYP)

PERMANENT IMPACTS TO PERMANENT IMPACTS (S) 16" 1203 SO. FT

EXISTING DITCH DRED TO EXISTING SYSTEMS OF DRAINAGE SYSTEMS

TEMPORARY PIPE (TYP)

PERMANENT IMPACTS TO PERMANENT IMPACTS (S) 16" 1203 SO. FT

EXISTING DITCH DRED TO EXISTING SYSTEMS OF DRAINAGE SYSTEMS

TEMPORARY PIPE (TYP)

PERMANENT IMPACTS TO PERMANENT IMPACTS (S) 16" 1203 SO. FT

EXISTING DITCH DRED TO EXISTING SYSTEMS OF DRAINAGE SYSTEMS

TEMPORARY PIPE (TYP)

PERMANENT IMPACTS TO PERMANENT IMPACTS (S) 16" 1203 SO. FT

EXISTING DITCH DRED TO EXISTING SYSTEMS OF DRAINAGE SYSTEMS

TEMPORARY PIPE (TYP)

PERMANENT IMPACTS TO PERMANENT IMPACTS (S) 16" 1203 SO. FT

EXISTING DITCH DRED TO EXISTING SYSTEMS OF DRAINAGE SYSTEMS

TEMPORARY PIPE (TYP)

SITE 1

SITE 2

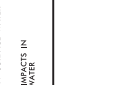
LUCY ALICE HAYS DB 100 PG 10

CATANBA LANDS CONSERVANCY DB 1335 PG 25

MILES & LITTLE CURRY & LITTLE DB 1900 PG 1

STV ENGINEERS, INC. 100 S. ST. JOHN STREET, SUITE 715, CHARLOTTE, NC 28202  
 STV ENGINEERS, INC. License Number 1-091

RML/FBN ENTERPRISES LLC DB 1746 PG 256



DECK DRAINS (TYP) 16" CIRCULAR SLOTS 10' CENTER FROM STA. 22+50 TO STA. 23+55  
 LT. STA. 23+50 TO 23+90 LT. STA. 23+23 TO 25+68 LT.

DECK DRAINS (TYP) 16" CIRCULAR SLOTS 10' CENTER FROM STA. 20+65 TO STA. 21+45  
 LT. STA. 21+60 TO 22+40 LT. STA. 22+54 TO 22+80 LT.

TOMAS & PRICE DB 708 PG 20

ROCK CAUSEWAY FOR BENT 4  
 DRILLED SHAFT CONSTRUCTION RECOMMEND CAUSEWAY BEYOND SIDES OF THE BENT.

ROCK CAISSENS WILL NOT BE EXPOSED AT ANY TIME 30% OF ROCK AT ANY TIME

ROCK CAUSEWAY FOR BENT 4  
 DRILLED SHAFT CONSTRUCTION RECOMMEND CAUSEWAY BEYOND SIDES OF THE BENT.

SPECIAL STILING BASIN (TYP)

TEMPORARY PIPE (TYP)

PERMANENT IMPACTS TO PERMANENT IMPACTS (S) 16" 1203 SO. FT

EXISTING DITCH DRED TO EXISTING SYSTEMS OF DRAINAGE SYSTEMS

TEMPORARY PIPE (TYP)

PERMANENT IMPACTS TO PERMANENT IMPACTS (S) 16" 1203 SO. FT

EXISTING DITCH DRED TO EXISTING SYSTEMS OF DRAINAGE SYSTEMS

TEMPORARY PIPE (TYP)

PERMANENT IMPACTS TO PERMANENT IMPACTS (S) 16" 1203 SO. FT

EXISTING DITCH DRED TO EXISTING SYSTEMS OF DRAINAGE SYSTEMS

TEMPORARY PIPE (TYP)

PERMANENT IMPACTS TO PERMANENT IMPACTS (S) 16" 1203 SO. FT

EXISTING DITCH DRED TO EXISTING SYSTEMS OF DRAINAGE SYSTEMS

TEMPORARY PIPE (TYP)

PERMANENT IMPACTS TO PERMANENT IMPACTS (S) 16" 1203 SO. FT

EXISTING DITCH DRED TO EXISTING SYSTEMS OF DRAINAGE SYSTEMS

TEMPORARY PIPE (TYP)

SITE 1

SITE 2

LUCY ALICE HAYS DB 100 PG 10

CATANBA LANDS CONSERVANCY DB 1335 PG 25

MILES & LITTLE CURRY & LITTLE DB 1900 PG 1

STV ENGINEERS, INC. 100 S. ST. JOHN STREET, SUITE 715, CHARLOTTE, NC 28202  
 STV ENGINEERS, INC. License Number 1-091

RML/FBN ENTERPRISES LLC DB 1746 PG 256



DECK DRAINS (TYP) 16" CIRCULAR SLOTS 10' CENTER FROM STA. 22+50 TO STA. 23+55  
 LT. STA. 23+50 TO 23+90 LT. STA. 23+23 TO 25+68 LT.

DECK DRAINS (TYP) 16" CIRCULAR SLOTS 10' CENTER FROM STA. 20+65 TO STA. 21+45  
 LT. STA. 21+60 TO 22+40 LT. STA. 22+54 TO 22+80 LT.

TOMAS & PRICE DB 708 PG 20

ROCK CAUSEWAY FOR BENT 4  
 DRILLED SHAFT CONSTRUCTION RECOMMEND CAUSEWAY BEYOND SIDES OF THE BENT.

ROCK CAISSENS WILL NOT BE EXPOSED AT ANY TIME 30% OF ROCK AT ANY TIME

ROCK CAUSEWAY FOR BENT 4  
 DRILLED SHAFT CONSTRUCTION RECOMMEND CAUSEWAY BEYOND SIDES OF THE BENT.

SPECIAL STILING BASIN (TYP)

TEMPORARY PIPE (TYP)

PERMANENT IMPACTS TO PERMANENT IMPACTS (S) 16" 1203 SO. FT

EXISTING DITCH DRED TO EXISTING SYSTEMS OF DRAINAGE SYSTEMS

TEMPORARY PIPE (TYP)

PERMANENT IMPACTS TO PERMANENT IMPACTS (S) 16" 1203 SO. FT

EXISTING DITCH DRED TO EXISTING SYSTEMS OF DRAINAGE SYSTEMS

TEMPORARY PIPE (TYP)

PERMANENT IMPACTS TO PERMANENT IMPACTS (S) 16" 1203 SO. FT

EXISTING DITCH DRED TO EXISTING SYSTEMS OF DRAINAGE SYSTEMS

TEMPORARY PIPE (TYP)

PERMANENT IMPACTS TO PERMANENT IMPACTS (S) 16" 1203 SO. FT

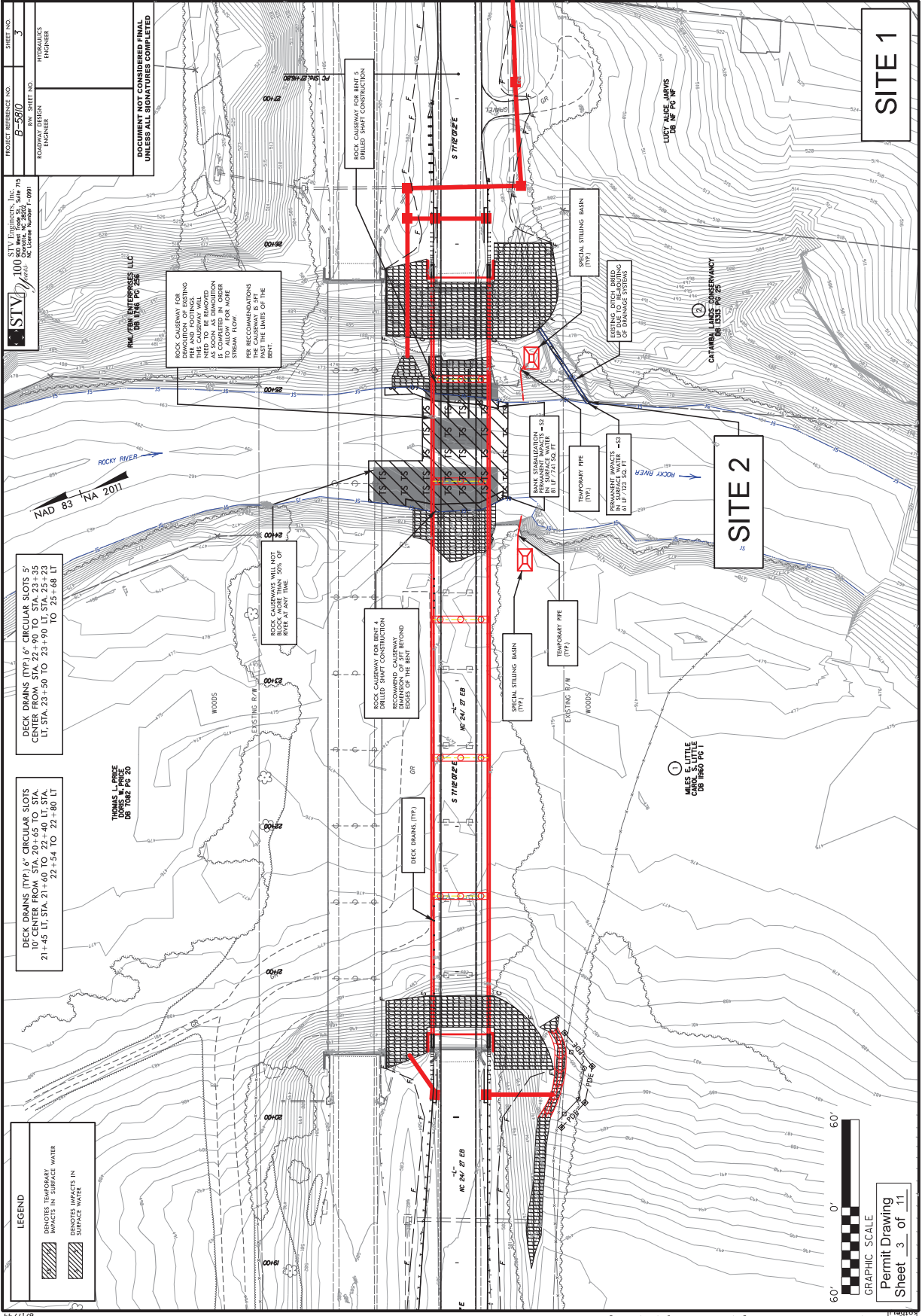
EXISTING DITCH DRED TO EXISTING SYSTEMS OF DRAINAGE SYSTEMS

TEMPORARY PIPE (TYP)

PERMANENT IMPACTS TO PERMANENT IMPACTS (S) 16" 1203 SO. FT

EXISTING DITCH DRED TO EXISTING SYSTEMS OF DRAINAGE SYSTEMS

TEMPORARY PIPE (TYP)



PROJECT REFERENCE NO. B-5910  
 SHEET NO. 3  
 STV ENGINEERS, INC.  
 100 S. W. 10th St., Suite 715  
 Tallahassee, FL 32302  
 INC License Number 1-0991  
 PROJECT ENGINEER  
 PROFESSIONAL ENGINEER  
 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PHIL VERA ENTERPRISES LLC  
 DB 1746 PG 25E  
 ROCK CAISSON FOR BENT 5 RECOMMEND CONSTRUCTION BEYOND SIDES OF THE BENT. ROCK CAISSONS WILL NOT BEER AT ANY TIME 30% OF PER RECOMMENDATIONS JUST THE LIMITS OF THE BENT.

DECK DRAINS (TYP) 16" CIRCULAR SLOTS 5' 10' CENTER FROM STA. 20+65 TO STA. 21+45 LT. STA. 21+60 TO 22+40 LT. STA. 22+54 TO 22+80 LT  
 DECK DRAINS (TYP) 16" CIRCULAR SLOTS 5' CENTER FROM STA. 22+90 TO STA. 23+35 LT. STA. 23+50 TO 23+90 LT. STA. 25+23 TO 25+68 LT  
 THOMAS L. PRICE DB 1086 PG 20

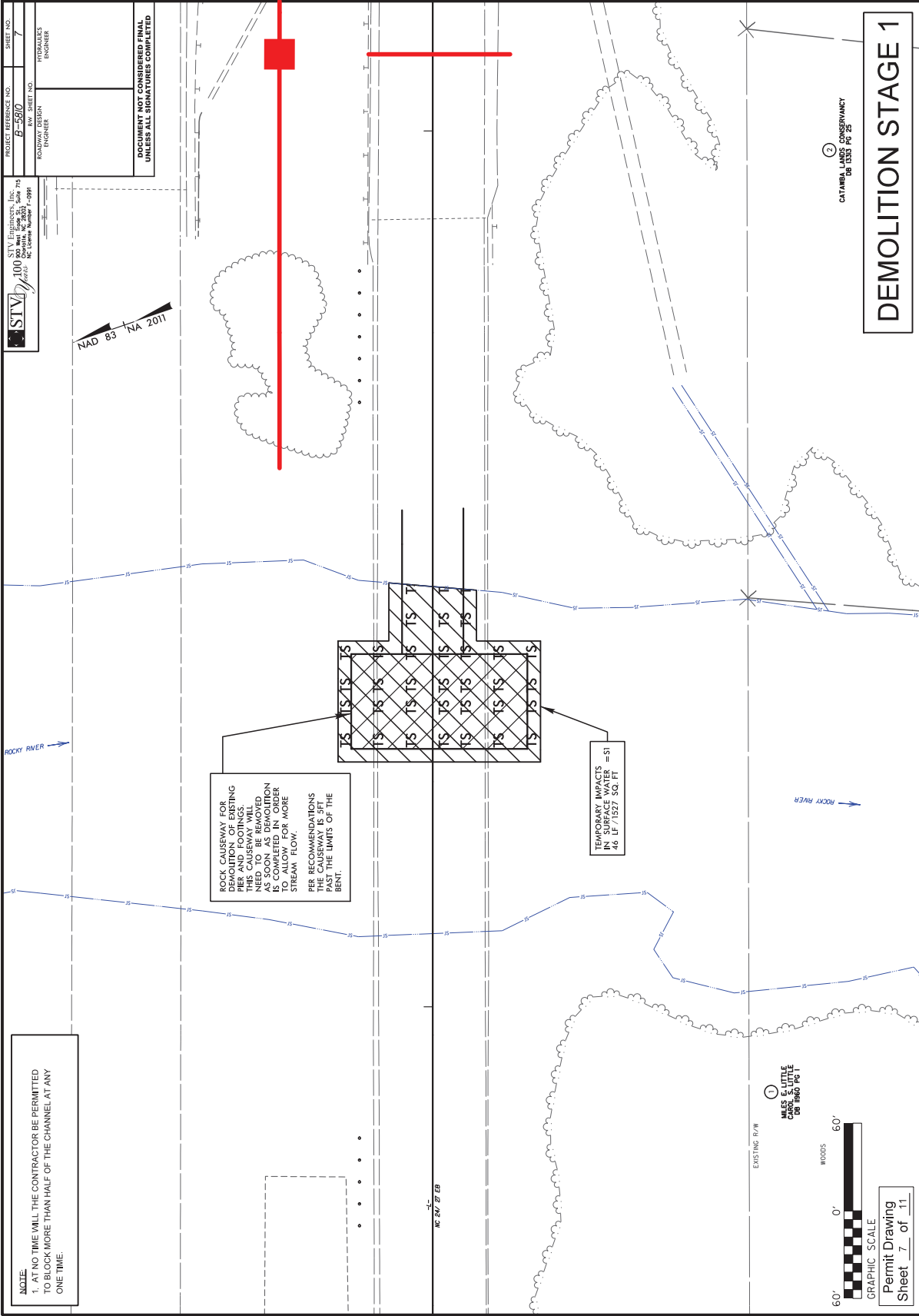
ROCK CAISSON FOR BENT A RECOMMEND CONSTRUCTION BEYOND SIDES OF THE BENT  
 ROCK CAISSON FOR BENT 5 RECOMMEND CONSTRUCTION BEYOND SIDES OF THE BENT  
 ROCK CAISSONS WILL NOT BEER AT ANY TIME 30% OF

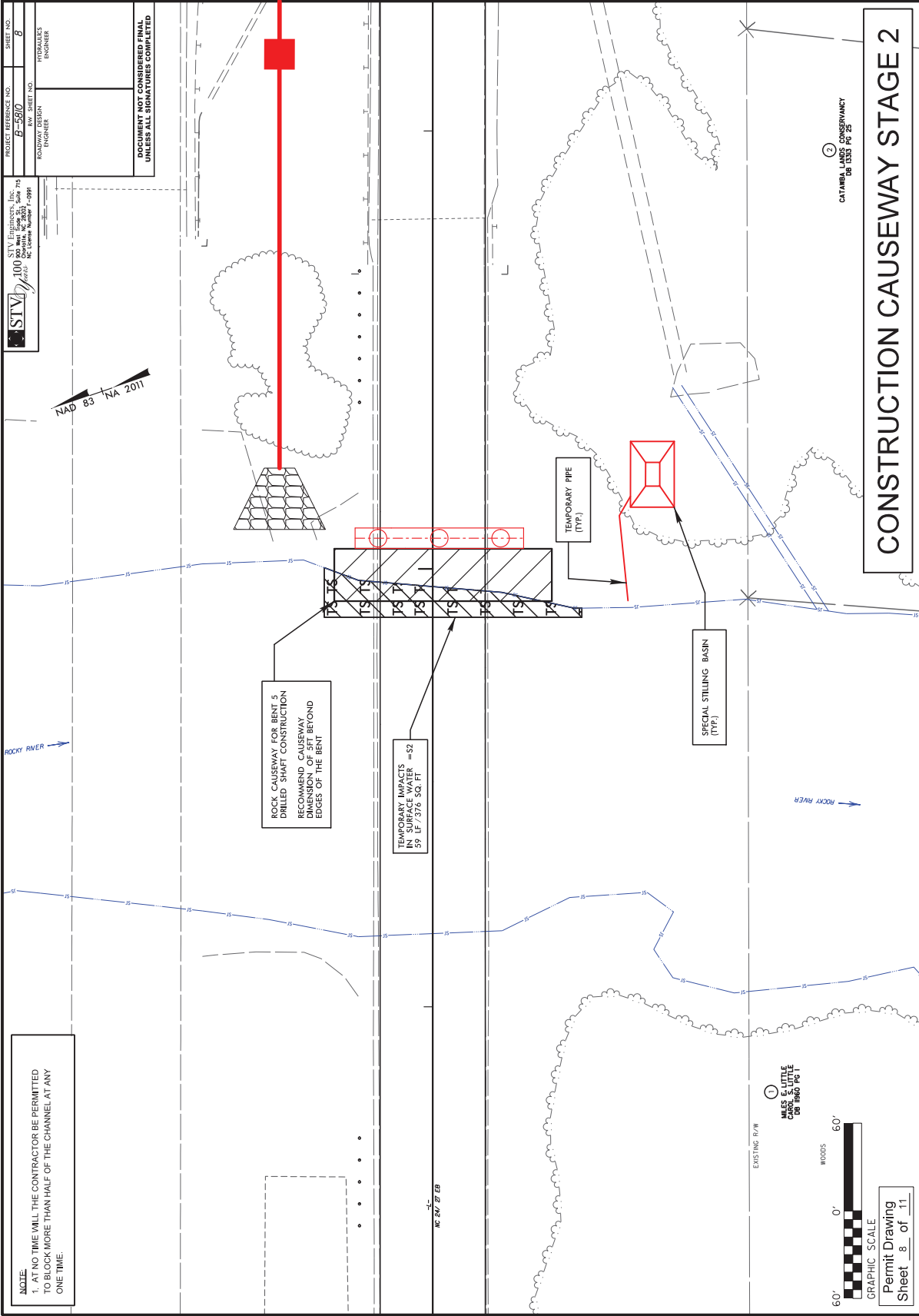
SPECIAL STILLING BASIN (TYP)  
 TEMPORARY PIPE (TYP)  
 PERMANENT IMPACTS (I) 18" 17.75 SOA FT  
 PERMANENT IMPACTS (I) 18" 17.75 SOA FT  
 WOODS  
 ROCKY RIVER  
 CATARAUGUS CONSERVANCY DB 1332 PG 25  
 MILES & LITTLE CURVE & LITTLE DB 1980 PG 1

LEGEND  
 DENOTES TEMPORARY IMPACTS IN SURFACE WATER  
 DENOTES IMPACTS IN SURFACE WATER  
 GRAPHIC SCALE  
 Permit Drawing Sheet 3 of 11

SITE 1

SITE 2





 STV Engineers Inc 100 St. Johns St St. John's, NL A1B 1X6 Tel: 709-536-1000 Fax: 709-536-1001	PROJECT REFERENCE NO. <b>P-58/0</b>	SHEET NO. <b>0</b>
	ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

NOTE:  
1. AT NO TIME WILL THE CONTRACTOR BE PERMITTED TO BLOCK MORE THAN HALF OF THE CHANNEL AT ANY ONE TIME.

CONSTRUCTION CAUSEWAY STAGE 2

CATMBA LANDS CONSERVANCY  
DP 1330 PG 25

EXISTING R/W

WOODS

0' 60'

GRAPHIC SCALE

PERMIT DRAWING

SHEET 8 OF 11

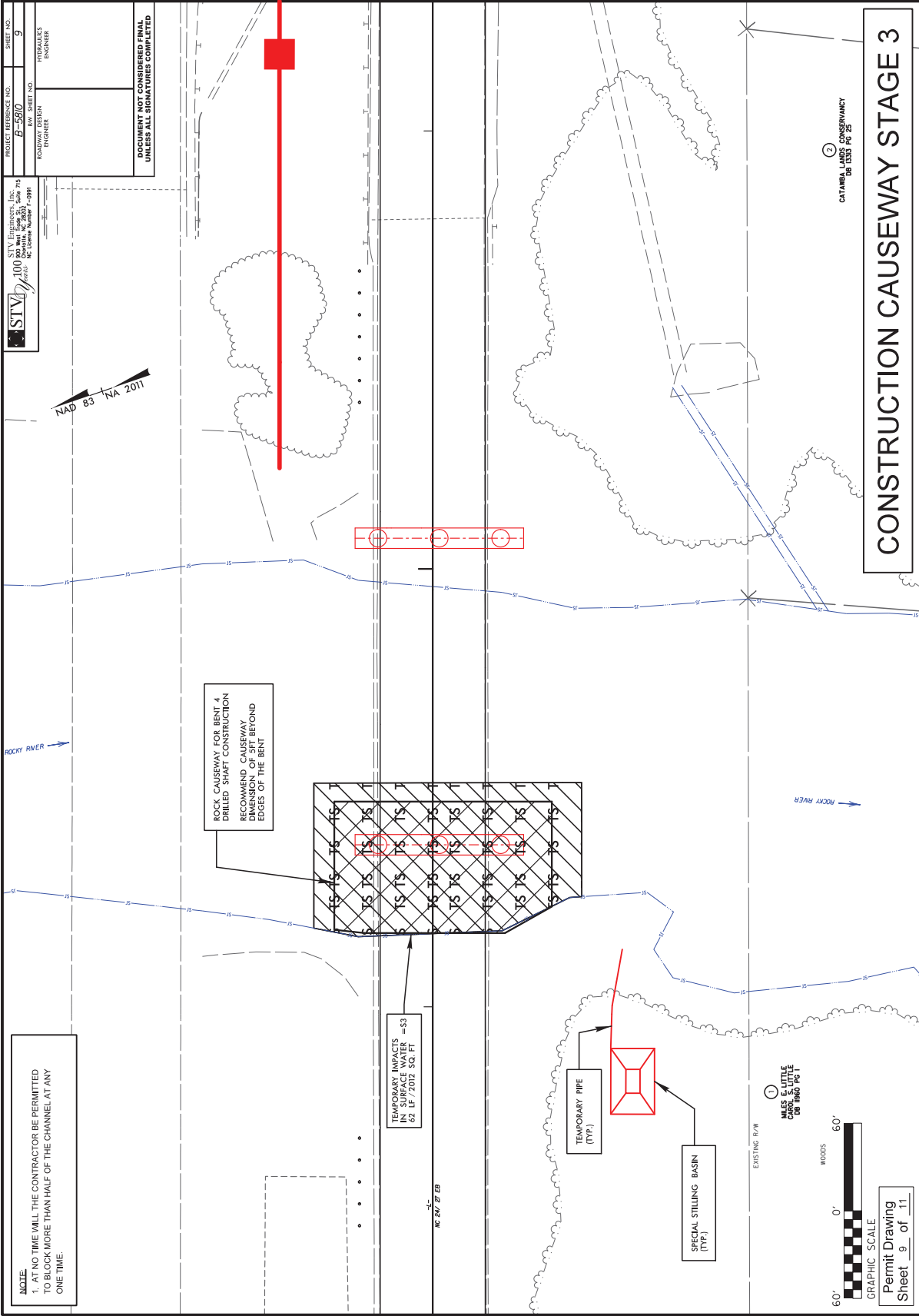
ROCK CAUSEWAY FOR BENT 5  
DRILLED SHAFT CONSTRUCTION  
RECOMMEND CAUSEWAY  
DIMENSION OF 5FT BEYOND  
EDGES OF THE BENT

TEMPORARY IMPACTS  
IN SURFACE WATER = S2  
59 LF / 376 SQ. FT

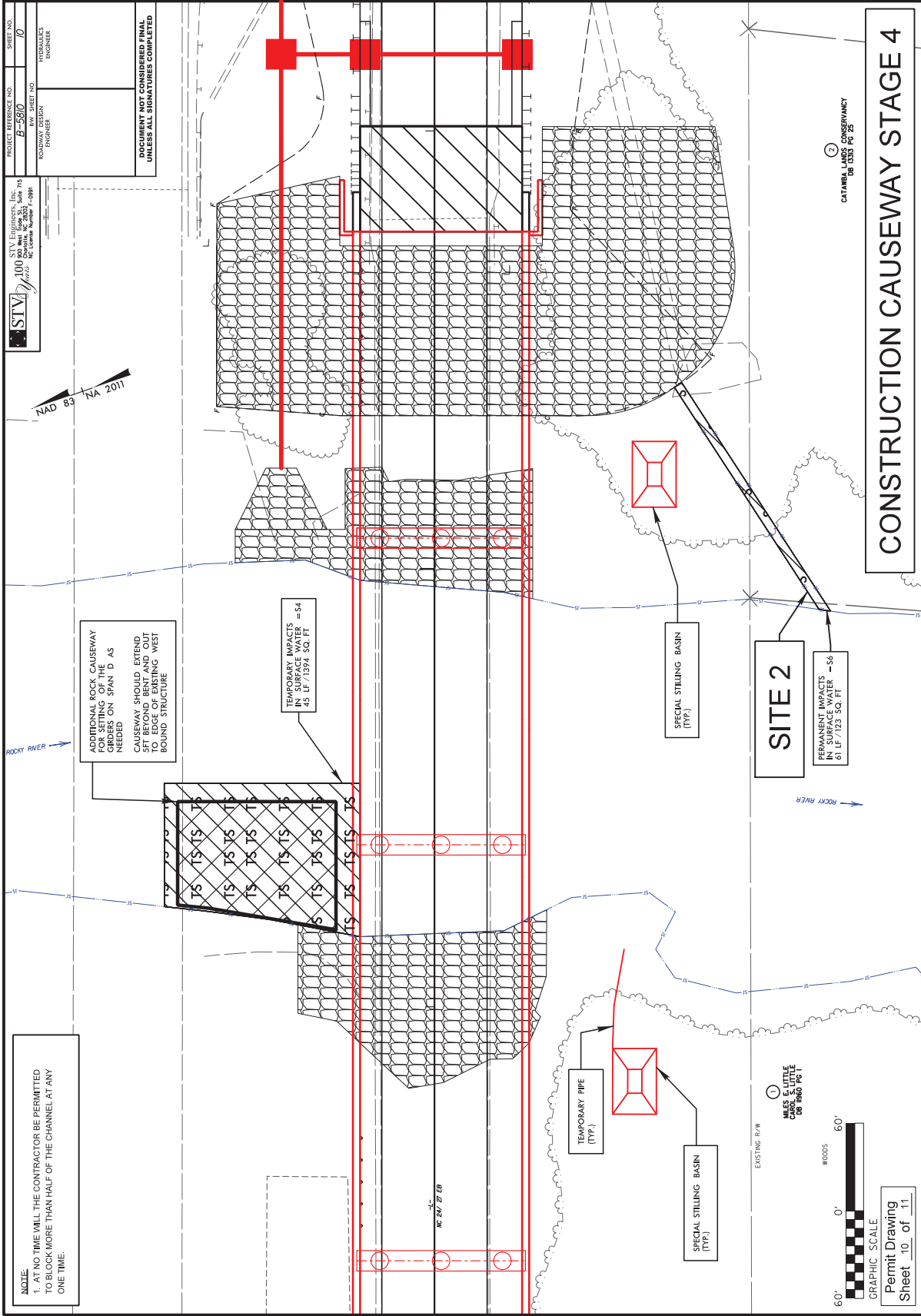
TEMPORARY PIPE  
(TYP.)

SPECIAL STILLING BASIN  
(TYP.)





8/17/2022 10:22 AM C:\Users\jmc\OneDrive\Documents\Drawings\Environmental\Drawings\Permit\BSE10.mxd (p.m.psk) bpdg



 <b>STV</b> 100 YEARS	PROJECT REFERENCE NO. <b>P-52/0</b>	SHEET NO. <b>10</b>
	ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

STV Engineers, Inc.  
 100 Years  
 1914-2014  
 100 Years

NAD 83 NA 2011

DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED

CATAMBA LANDS CONSERVANCY  
 DP 1330 PG 25

**CONSTRUCTION CAUSEWAY STAGE 4**

**SITE 2**  
 PERMANENT IMPACTS  
 IN SURFACE WATER - S6  
 61 LF / 123 SQ. FT.

MAJOR SUTURE  
 CROSSING  
 DP 1860 PG 1

GRAPHIC SCALE  
 0' 60'  
 Permit Drawing  
 Sheet 10 of 11

County: CABARRUS

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
<b>ROADWAY ITEMS</b>						
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	0000400000-N	801	CONSTRUCTION SURVEYING	Lump Sum	L.S.	
0003	0028000000-N	SP	TYPE I STANDARD APPROACH FILL STATION ***** (23+17.00 -L-)	Lump Sum	L.S.	
0004	0043000000-N	226	GRADING	Lump Sum	L.S.	
0005	0050000000-E	226	SUPPLEMENTARY CLEARING & GRUBBING	1 ACR		
0006	0057000000-E	226	UNDERCUT EXCAVATION	450 CY		
0007	0134000000-E	240	DRAINAGE DITCH EXCAVATION	10 CY		
0008	0195000000-E	265	SELECT GRANULAR MATERIAL	400 CY		
0009	0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZATION	600 SY		
0010	0318000000-E	300	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	110 TON		
0011	0320000000-E	300	FOUNDATION CONDITIONING GEOTEXTILE	330 SY		
0012	0335200000-E	305	15" DRAINAGE PIPE	88 LF		
0013	0335700000-E	305	42" DRAINAGE PIPE	96 LF		
0014	0335850000-E	305	*** DRAINAGE PIPE ELBOWS (15")	4 EA		
0015	0335850000-E	305	*** DRAINAGE PIPE ELBOWS (42")	2 EA		
0016	0366000000-E	310	15" RC PIPE CULVERTS, CLASS III	20 LF		
0017	0390000000-E	310	36" RC PIPE CULVERTS, CLASS III	68 LF		

County: CABARRUS

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0018	0396000000-E	310	42" RC PIPE CULVERTS, CLASS III	20 LF		
0019	0448200000-E	310	15" RC PIPE CULVERTS, CLASS IV	36 LF		
0020	0448300000-E	310	18" RC PIPE CULVERTS, CLASS IV	568 LF		
0021	0448500000-E	310	30" RC PIPE CULVERTS, CLASS IV	76 LF		
0022	0995000000-E	340	PIPE REMOVAL	982 LF		
0023	1099500000-E	505	SHALLOW UNDERCUT	100 CY		
0024	1099700000-E	505	CLASS IV SUBGRADE STABILIZATION	200 TON		
0025	1121000000-E	520	AGGREGATE BASE COURSE	530 TON		
0026	1220000000-E	545	INCIDENTAL STONE BASE	100 TON		
0027	1297000000-E	607	MILLING ASPHALT PAVEMENT, **** DEPTH (1-1/2")	450 SY		
0028	1330000000-E	607	INCIDENTAL MILLING	170 SY		
0029	1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0C	500 TON		
0030	1503000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	480 TON		
0031	1523000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	610 TON		
0032	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	85 TON		
0033	2022000000-E	815	SUBDRAIN EXCAVATION	44.8 CY		
0034	2026000000-E	815	GEOTEXTILE FOR SUBSURFACE DRAINS	200 SY		

County: CABARRUS

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0035	2036000000-E	815	SUBDRAIN COARSE AGGREGATE	33.6 CY		
0036	2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	200 LF		
0037	2070000000-N	815	SUBDRAIN PIPE OUTLET	1 EA		
0038	2077000000-E	815	6" OUTLET PIPE	6 LF		
0039	2286000000-N	840	MASONRY DRAINAGE STRUCTURES	13 EA		
0040	2308000000-E	840	MASONRY DRAINAGE STRUCTURES	11.9 LF		
0041	2364000000-N	840	FRAME WITH TWO GRATES, STD 840.16	2 EA		
0042	2364200000-N	840	FRAME WITH TWO GRATES, STD 840.20	5 EA		
0043	2365000000-N	840	FRAME WITH TWO GRATES, STD 840.22	5 EA		
0044	2396000000-N	840	FRAME WITH COVER, STD 840.54	2 EA		
0045	2556000000-E	846	SHOULDER BERM GUTTER	94 LF		
0046	2905000000-N	859	CONVERT EXISTING DROP INLET TO JUNCTION BOX	1 EA		
0047	3030000000-E	862	STEEL BEAM GUARDRAIL	412.5 LF		
0048	3150000000-N	862	ADDITIONAL GUARDRAIL POSTS	10 EA		
0049	3210000000-N	862	GUARDRAIL END UNITS, TYPE CAT-1	1 EA		
0050	3287000000-N	SP	GUARDRAIL END UNITS, TYPE TL-3	3 EA		
0051	3317000000-N	SP	GUARDRAIL ANCHOR UNITS, TYPE B- 77	4 EA		

County: CABARRUS

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0052	3559000000-E	866	** STRAND BARBED WIRE FENCE WITH POSTS (4)	70 LF		
0053	3595000000-E	869	RELAPPING GUARDRAIL	500 LF		
0054	3628000000-E	876	RIP RAP, CLASS I	13 TON		
0055	3635000000-E	876	RIP RAP, CLASS II	150 TON		
0056	3649000000-E	876	RIP RAP, CLASS B	70 TON		
0057	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	1,750 SY		
0058	4072000000-E	903	SUPPORTS, 3-LB STEEL U-CHANNEL	15 LF		
0059	4096000000-N	904	SIGN ERECTION, TYPE D	1 EA		
0060	4155000000-N	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	1 EA		
0061	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	176 SF		
0062	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	28 SF		
0063	4430000000-N	1130	DRUMS	400 EA		
0064	4445000000-E	1145	BARRICADES (TYPE III)	32 LF		
0065	4480000000-N	1165	TMA	2 EA		
0066	4590000000-E	SP	GENERIC TRAFFIC CONTROL ITEM TEMPORARY ASPHALT ISLAND	1,900 LF		
0067	4685000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	4,775 LF		
0068	4770000000-E	1205	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (II)	2,475 LF		

County: CABARRUS

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0069	4810000000-E	1205	PAINT PAVEMENT MARKING LINES (4")	14,025 LF		
0070	4850000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (4")	11,257 LF		
0071	4900000000-N	1251	PERMANENT RAISED PAVEMENT MARKERS	14 EA		
0072	6000000000-E	1605	TEMPORARY SILT FENCE	2,950 LF		
0073	6006000000-E	1610	STONE FOR EROSION CONTROL, CLASS A	255 TON		
0074	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	170 TON		
0075	6012000000-E	1610	SEDIMENT CONTROL STONE	570 TON		
0076	6015000000-E	1615	TEMPORARY MULCHING	0.5 ACR		
0077	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	100 LB		
0078	6021000000-E	1620	FERTILIZER FOR TEMPORARY SEEDING	0.5 TON		
0079	6024000000-E	1622	TEMPORARY SLOPE DRAINS	200 LF		
0080	6029000000-E	SP	SAFETY FENCE	320 LF		
0081	6030000000-E	1630	SILT EXCAVATION	420 CY		
0082	6036000000-E	1631	MATTING FOR EROSION CONTROL	7,740 SY		
0083	6037000000-E	SP	COIR FIBER MAT	300 SY		
0084	6038000000-E	SP	PERMANENT SOIL REINFORCEMENT MAT	240 SY		
0085	6042000000-E	1632	1/4" HARDWARE CLOTH	300 LF		

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0086	6045000000-E	SP	*** TEMPORARY PIPE (15")	65 LF		
0087	6048000000-E	SP	FLOATING TURBIDITY CURTAIN	600 SY		
0088	6070000000-N	1639	SPECIAL STILLING BASINS	14 EA		
0089	6071012000-E	SP	COIR FIBER WATTLE	540 LF		
0090	6071020000-E	SP	POLYACRYLAMIDE (PAM)	75 LB		
0091	6084000000-E	1660	SEEDING & MULCHING	0.5 ACR		
0092	6087000000-E	1660	MOWING	0.5 ACR		
0093	6090000000-E	1661	SEED FOR REPAIR SEEDING	50 LB		
0094	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	0.25 TON		
0095	6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	50 LB		
0096	6108000000-E	1665	FERTILIZER TOPDRESSING	0.25 TON		
0097	6111000000-E	SP	IMPERVIOUS DIKE	300 LF		
0098	6114500000-N	1667	SPECIALIZED HAND MOWING	10 MHR		
0099	6114800000-N	SP	MANUAL LITTER REMOVAL	8 MHR		
0100	6114900000-E	SP	LITTER DISPOSAL	0.1 TON		
0101	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	25 EA		
0102	6117500000-N	SP	CONCRETE WASHOUT STRUCTURE	2 EA		



County: CABARRUS

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0129	0448600000-E	310	36" RC PIPE CULVERTS, CLASS IV	220 LF		
-----						
<b>STRUCTURE ITEMS</b>						
0103	8017000000-N	SP	CONSTRUCTION, MAINTENANCE, & REMOVAL OF TEMP ACCESS AT STA ***** (23+17.00 -L-)	Lump Sum	L.S.	
0104	8021000000-N	SP	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (23+17.00 -L-)	Lump Sum	L.S.	
0105	8065000000-N	SP	ASBESTOS ASSESSMENT	Lump Sum	L.S.	
0106	8096000000-E	450	PILE EXCAVATION IN SOIL	35 LF		
0107	8097000000-E	450	PILE EXCAVATION NOT IN SOIL	35 LF		
0108	8105560000-E	411	4'-0" DIA DRILLED PIERS IN SOIL	136.2 LF		
0109	8105660000-E	411	4'-0" DIA DRILLED PIERS NOT IN SOIL	218 LF		
0110	8111600000-E	411	PERMANENT STEEL CASING FOR 4'-0" DIA DRILLED PIER	48.8 LF		
0111	8113000000-N	411	SID INSPECTIONS	3 EA		
0112	8114000000-N	411	SPT TESTING	9 EA		
0113	8115000000-N	411	CSL TESTING	1 EA		
0114	8121000000-N	412	UNCLASSIFIED STRUCTURE EXCAVATION AT STATION ***** (23+17.00 -L-)	Lump Sum	L.S.	
0115	8147000000-E	420	REINFORCED CONCRETE DECK SLAB	20,834 SF		
0116	8161000000-E	420	GROOVING BRIDGE FLOORS	19,147.4 SF		
-----						

County: CABARRUS

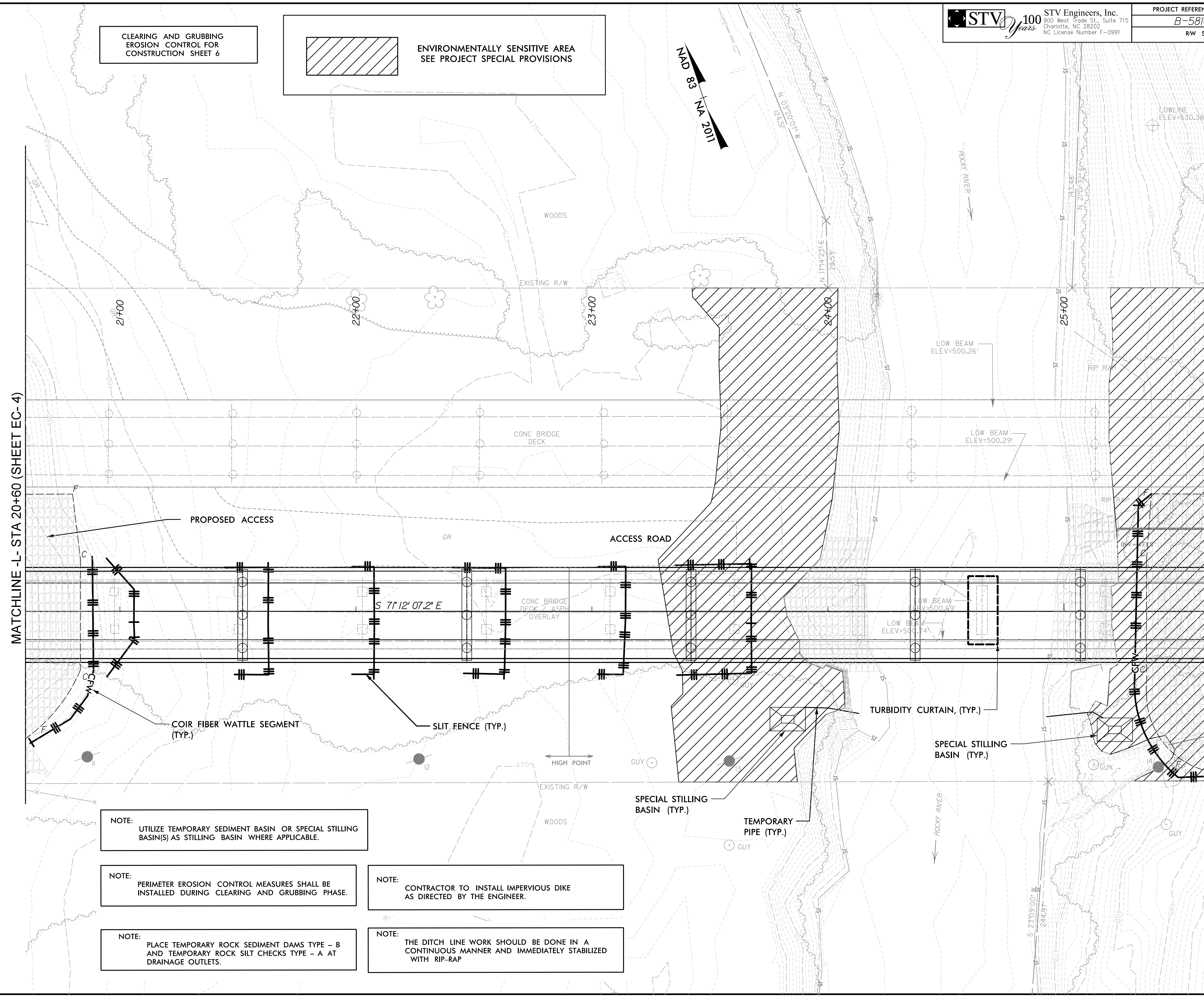
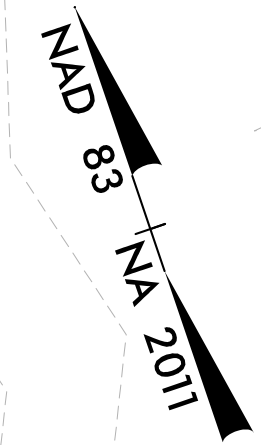
Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0117	8182000000-E	420	CLASS A CONCRETE (BRIDGE)	336.4 CY		
0118	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (23+17.00 -L-)	Lump Sum	L.S.	
0119	8217000000-E	425	REINFORCING STEEL (BRIDGE)	97,025 LB		
0120	8238000000-E	425	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)	18,678 LB		
0121	8265000000-E	430	54" PRESTRESSED CONCRETE GIRDERS	2,052.7 LF		
0122	8328200000-E	450	PILE DRIVING EQUIPMENT SETUP FOR *** STEEL PILES (HP 12 X 53)	14 EA		
0123	8364000000-E	450	HP 12 X 53 STEEL PILES	300 LF		
0124	8503000000-E	460	CONCRETE BARRIER RAIL	1,075.2 LF		
0125	8608000000-E	876	RIP RAP CLASS II (2'-0" THICK)	1,000 TON		
0126	8622000000-E	876	GEOTEXTILE FOR DRAINAGE	1,110 SY		
0127	8657000000-N	430	ELASTOMERIC BEARINGS	Lump Sum	L.S.	
0128	8706000000-N	SP	EXPANSION JOINT SEALS	Lump Sum	L.S.	

1505/Aug11/Q223386.1/D554671852000/E129

Total Amount Of Bid For Entire Project :

CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 6

 ENVIRONMENTALLY SENSITIVE AREA  
SEE PROJECT SPECIAL PROVISIONS



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

NOTE:  
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

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

NOTE:  
CONTRACTOR TO INSTALL IMPERVIOUS DIKE AS DIRECTED BY THE ENGINEER.

NOTE:  
THE DITCH LINE WORK SHOULD BE DONE IN A CONTINUOUS MANNER AND IMMEDIATELY STABILIZED WITH RIP-RAP

