



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

JOSH STEIN
GOVERNOR

J.R. "JOEY" HOPKINS
SECRETARY

June 26, 2025

Addendum No. 1

RE: Contract # C205072

WBS # 40237.3.2

STATE FUNDED

New Hanover and Pender Counties (R-3300A)

US-17 (HAMPSTEAD BYPASS) FROM US-17 BYPASS SOUTH OF HAMPSTEAD
TO NC-210.

July 15, 2025 Letting

To Whom It May Concern:

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

The following revisions have been made to the Roadway Plans.

Sheet No.	Revision
2A-6	Typical Section No. 15 updated to clarify limits and scope of work. 1 ½" Milling pay item revised below.
2G-1 thru 2G-8	Revised reference from "FINAL GRADE" to "PROPOSED GRADE".

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

The following revisions have been made to the Structure Plans.

Sheet No.	Revision
S06-04	Updated Structure 6 GD02 sheet clarifying requirements for pile metallization.
S07-04	Updated Structure 7 GD02 sheet clarifying requirements for pile metallization.
S08-05	Updated Structure 8 GD02 sheet clarifying requirements for pile metallization.
S09-05	Updated Structure 9 GD02 sheet clarifying requirements for pile metallization.

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

Website: www.ncdot.gov

Location:
1020 BIRCH RIDGE DR.
RALEIGH, NC 27610

Sheet No.	Revision
S09-22	Updated Structure 9 intermediate steel diaphragm detail sheet confirming the metallization requirement.
S05-01 thru S05-34	Structure 5 plans sealed and updated to remove preliminary plans note.

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

In addition, after an initial omission at advertisement, all Retaining Wall Plan Sheets have been uploaded to the Letting Site.

The following revisions have been made to the proposal.

Page No.	Revision
Proposal Cover	Note added that reads "Includes Addendum No. 1 Dated 06-26-2025".

Please void the above listed Page in your proposal and staple the revised Page 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>
0061- 1297000000-E 607	MILLING ASPHALT PAVEMENT, 1-1/2" DEPTH	65,000 SY	32,250 SY
0268-8182000000-E 420	CLASS A CONCRETE (BRIDGE)	619.2 CY	618.4 CY
0279-8217000000-E 425	REINFORCING STEEL (BRIDGE)	408,763 LB	408,486 LB
0282-8277000000-E 430	MODIFIED 72" PRESTRESSED CONC GIRDERS	6,290.83 LF	6,290.33 LF
0286-8328200000-E 450	PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES	69 EA	63 EA

0291-8364000000-E 450	HP 12 X 53 PILES	3,300 LF	3,135 LF
0295-8392500000-E 450	PREDILLING FOR PILES	1,344.7 LF	1,611.4 LF
0296-8393000000-N 450	PILE REDRIVES	192 EACH	190 EACH
0297-8394000000-N 450	DYNAMIC PILE TESTING	13 EACH	14 EACH

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,

Signed by:

52C46046381F443...

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

RED/cms
Attachments

cc: Mr. Wiley W. Jones III, PE
Mr. Trevor K Carroll, PE
Mr. Ken Kennedy, PE
Mr. Malcolm Bell

Mr. Forrest Dungan, PE
Ms. Jaci Kincaid
Mr. Jon Weathersbee, PE
Project File (2)

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

PROPOSAL

INCLUDES ADDENDUM No. 1 DATED 06-26-2025

DATE AND TIME OF BID OPENING: **Jul 15, 2025 AT 02:00 PM**

CONTRACT ID C205072
WBS 40237.3.2

FEDERAL-AID NO. STATE FUNDED
COUNTY NEW HANOVER, PENDER
T.I.P NO. R-3300A
MILES 7.044
ROUTE NO. US-17
LOCATION US-17 (HAMPSTEAD BYPASS) FROM US-17 BYPASS SOUTH OF
 HAMPSTEAD TO NC-210.

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

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: NEW HANOVER, PENDER

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	0001000000-E	200	CLEARING & GRUBBING .. ACRE(S)	Lump Sum	L.S.	
0004	0008000000-E	200	SUPPLEMENTARY CLEARING & GRUBBING	5 ACR		
0005	0022000000-E	225	UNCLASSIFIED EXCAVATION	59,000 CY		
0006	0036000000-E	225	UNDERCUT EXCAVATION	63,517 CY		
0007	0084000000-E	SP	WICK DRAINS	165,000 LF		
0008	0106000000-E	230	BORROW EXCAVATION	3,300,000 CY		
0009	0127000000-N	235	EMBANKMENT SETTLEMENT GAUGES	38 EA		
0010	0134000000-E	240	DRAINAGE DITCH EXCAVATION	39,550 CY		
0011	0156000000-E	250	REMOVAL OF EXISTING ASPHALT PAVEMENT	15,600 SY		
0012	0177000000-E	250	BREAKING OF EXISTING ASPHALT PAVEMENT	5,700 SY		
0013	0192000000-N	260	PROOF ROLLING	90 HR		
0014	0194000000-E	265	SELECT GRANULAR MATERIAL, CLASS III	111,750 CY		
0015	0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZATION	66,450 SY		
0016	0199000000-E	SP	TEMPORARY SHORING	6,420 SF		
0017	0241000000-E	SP	GENERIC GRADING ITEM GEOTEXTILE FOR WICK DRAIN	7,500 SY		

County: NEW HANOVER, PENDER

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0018	0248000000-N	SP	GENERIC GRADING ITEM TYPE 1 BRIDGE APPROACH FILL, STATION 225+92.26 -L1-	Lump Sum	L.S.	
0019	0248000000-N	SP	GENERIC GRADING ITEM TYPE 1 BRIDGE APPROACH FILL, STATION 23+28.17 -Y35-	Lump Sum	L.S.	
0020	0248000000-N	SP	GENERIC GRADING ITEM TYPE 1 BRIDGE APPROACH FILL, STATION 232+80.54 -L1- LT	Lump Sum	L.S.	
0021	0248000000-N	SP	GENERIC GRADING ITEM TYPE 1 BRIDGE APPROACH FILL, STATION 232+80.54 -L1- RT	Lump Sum	L.S.	
0022	0248000000-N	SP	GENERIC GRADING ITEM TYPE 1 BRIDGE APPROACH FILL, STATION 24+28.73 -Y34-	Lump Sum	L.S.	
0023	0248000000-N	SP	GENERIC GRADING ITEM TYPE 1 BRIDGE APPROACH FILL, STATION 31+84.73 -Y33RPCA-	Lump Sum	L.S.	
0024	0248000000-N	SP	GENERIC GRADING ITEM TYPE 1 BRIDGE APPROACH FILL, STATION 384+20.26 -L1- LT	Lump Sum	L.S.	
0025	0248000000-N	SP	GENERIC GRADING ITEM TYPE 1 BRIDGE APPROACH FILL, STATION 384+20.26 -L1- RT	Lump Sum	L.S.	
0026	0248000000-N	SP	GENERIC GRADING ITEM TYPE 1 BRIDGE APPROACH FILL, STATION 427+46.10 -L1- LT	Lump Sum	L.S.	
0027	0248000000-N	SP	GENERIC GRADING ITEM TYPE 1 BRIDGE APPROACH FILL, STATION 427+46.16 -L1- RT	Lump Sum	L.S.	
0028	0255000000-E	SP	GENERIC GRADING ITEM SELECT MATERIAL FOR WICK DRAIN	325 TON		
0029	0318000000-E	300	FOUNDATION CONDITIONING MATERIAL, MINOR STRUCTURES	2,650 TON		
0030	0321000000-E	300	FOUNDATION CONDITIONING GEOTEXTILE	8,340 SY		
0031	0335200000-E	305	15" DRAINAGE PIPE	88 LF		
0032	0335300000-E	305	18" DRAINAGE PIPE	2,060 LF		

County: NEW HANOVER, PENDER

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0033	0335400000-E	305	24" DRAINAGE PIPE	272 LF		
0034	0335850000-E	305	*** DRAINAGE PIPE ELBOWS (18")	44 EA		
0035	0335850000-E	305	*** DRAINAGE PIPE ELBOWS (24")	2 EA		
0036	0448000000-E	310	***** RC PIPE CULVERTS, CLASS IV (48")	1,444 LF		
0037	0448000000-E	310	***** RC PIPE CULVERTS, CLASS IV (54")	1,348 LF		
0038	0448000000-E	310	***** RC PIPE CULVERTS, CLASS IV (60")	400 LF		
0039	0448000000-E	310	***** RC PIPE CULVERTS, CLASS IV (72")	352 LF		
0040	0448200000-E	310	15" RC PIPE CULVERTS, CLASS IV	580 LF		
0041	0448300000-E	310	18" RC PIPE CULVERTS, CLASS IV	8,892 LF		
0042	0448400000-E	310	24" RC PIPE CULVERTS, CLASS IV	3,380 LF		
0043	0448500000-E	310	30" RC PIPE CULVERTS, CLASS IV	744 LF		
0044	0448600000-E	310	36" RC PIPE CULVERTS, CLASS IV	4,668 LF		
0045	0448700000-E	310	42" RC PIPE CULVERTS, CLASS IV	368 LF		
0046	0449000000-E	310	*** RC PIPE CULVERTS, CLASS V (24")	396 LF		
0047	0973100000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (24", 0.500")	52 LF		
0048	0973100000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (60", 0.875")	92 LF		
0049	0973300000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (24", 0.500")	52 LF		

County: NEW HANOVER, PENDER

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0050	0973300000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (60", 0.875")	92 LF		
0051	0995000000-E	340	PIPE REMOVAL	1,479 LF		
0052	1000000000-E	462	6" SLOPE PROTECTION	680 SY		
0053	1011000000-N	500	FINE GRADING	Lump Sum	L.S.	
0054	1099500000-E	505	SHALLOW UNDERCUT	1,000 CY		
0055	1099700000-E	505	CLASS IV SUBGRADE STABILIZATION	1,950 TON		
0056	1111000000-E	SP	CLASS IV AGGREGATE STABILIZATION	8,500 TON		
0057	1112000000-E	505	GEOTEXTILE FOR SUBGRADE STABILIZATION	3,000 SY		
0058	1121000000-E	520	AGGREGATE BASE COURSE	125,000 TON		
0059	1220000000-E	545	INCIDENTAL STONE BASE	10,000 TON		
0060	1245000000-E	SP	SHOULDER RECONSTRUCTION	10 SMI		
0061	1297000000-E	607	MILLING ASPHALT PAVEMENT, ***** DEPTH (1-1/2")	32,250 SY		
0062	1297000000-E	607	MILLING ASPHALT PAVEMENT, ***** DEPTH (3")	2,300 SY		
0063	1330000000-E	607	INCIDENTAL MILLING	2,000 SY		
0064	1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0C	73,500 TON		
0065	1503000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	83,000 TON		
0066	1519000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	5,000 TON		

County: NEW HANOVER, PENDER

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0067	1523000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	70,000 TON		
0068	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	11,750 TON		
0069	1693000000-E	654	ASPHALT PLANT MIX, PAVEMENT REPAIR	800 TON		
0070	1841000000-E	665	GENERIC PAVING ITEM MILLED RUMBLE STRIPS (ASPHALT CONCRETE), 16"	141,425 LF		
0071	2022000000-E	815	SUBDRAIN EXCAVATION	1,646 CY		
0072	2026000000-E	815	GEOTEXTILE FOR SUBSURFACE DRAINS	4,900 SY		
0073	2036000000-E	815	SUBDRAIN COARSE AGGREGATE	823 CY		
0074	2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	4,900 LF		
0075	2070000000-N	815	SUBDRAIN PIPE OUTLET	10 EA		
0076	2077000000-E	815	6" OUTLET PIPE	60 LF		
0077	2209000000-E	838	ENDWALLS	77.1 CY		
0078	2220000000-E	838	REINFORCED ENDWALLS	57.4 CY		
0079	2275000000-E	SP	FLOWABLE FILL	20 CY		
0080	2286000000-N	840	MASONRY DRAINAGE STRUCTURES	158 EA		
0081	2297000000-E	840	MASONRY DRAINAGE STRUCTURES	11.614 CY		
0082	2308000000-E	840	MASONRY DRAINAGE STRUCTURES	109.1 LF		
0083	2364000000-N	840	FRAME WITH TWO GRATES, STD 840.16	1 EA		

County: NEW HANOVER, PENDER

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0084	2364200000-N	840	FRAME WITH TWO GRATES, STD 840.20	42 EA		
0085	2365000000-N	840	FRAME WITH TWO GRATES, STD 840.22	71 EA		
0086	2366000000-N	840	FRAME WITH TWO GRATES, STD 840.24	6 EA		
0087	2367000000-N	840	FRAME WITH TWO GRATES, STD 840.29	26 EA		
0088	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)	1 EA		
0089	2396000000-N	840	FRAME WITH COVER, STD 840.54	9 EA		
0090	2407000000-N	840	STEEL FRAME WITH TWO GRATES, STD 840.37	5 EA		
0091	2473000000-N	SP	GENERIC DRAINAGE ITEM 30" PIPE ENDWALL WITH LOAD CARRYING GRATE	1 EA		
0092	2473000000-N	SP	GENERIC DRAINAGE ITEM 36" PIPE ENDWALL WITH LOAD CARRYING GRATE	21 EA		
0093	2473000000-N	SP	GENERIC DRAINAGE ITEM 48" PIPE ENDWALL WITH LOAD CARRYING GRATE	1 EA		
0094	2549000000-E	846	2'-6" CONCRETE CURB & GUTTER	1,500 LF		
0095	2556000000-E	846	SHOULDER BERM GUTTER	16,700 LF		
0096	2724000000-E	857	PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED	560 LF		
0097	3001000000-N	SP	IMPACT ATTENUATOR UNITS, TYPE TL-3	8 EA		
0098	3030000000-E	862	STEEL BEAM GUARDRAIL	31,075 LF		
0099	3105000000-N	862	STEEL BEAM GUARDRAIL TERMINAL SECTIONS	4 EA		

County: NEW HANOVER, PENDER

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0100	3150000000-N	862	ADDITIONAL GUARDRAIL POSTS	10 EA		
0101	3210000000-N	862	GUARDRAIL END UNITS, TYPE CAT-1	36 EA		
0102	3287000000-N	862	GUARDRAIL END UNITS, TYPE TL-3	50 EA		
0103	3288000000-N	862	GUARDRAIL END UNITS, TYPE TL-2	2 EA		
0104	3317000000-N	862	GUARDRAIL ANCHOR UNITS, TYPE B-77	56 EA		
0105	3345000000-E	864	REMOVE & RESET EXISTING GUARDRAIL	405 LF		
0106	3360000000-E	863	REMOVE EXISTING GUARDRAIL	67.5 LF		
0107	3365000000-E	863	REMOVE EXISTING GUIDERAIL	992 LF		
0108	3389200000-E	865	CABLE GUIDERAIL	33,200 LF		
0109	3389500000-N	865	ADDITIONAL GUIDERAIL POSTS	10 EA		
0110	3389600000-N	865	CABLE GUIDERAIL ANCHOR UNITS	46 EA		
0111	3503000000-E	866	WOVEN WIRE FENCE, 47" FABRIC	74,375 LF		
0112	3509000000-E	866	4" TIMBER FENCE POSTS, 7'-6" LONG	5,010 EA		
0113	3515000000-E	866	5" TIMBER FENCE POSTS, 8'-0" LONG	580 EA		
0114	3628000000-E	876	RIP RAP, CLASS I	3,325 TON		
0115	3635000000-E	876	RIP RAP, CLASS II	300 TON		
0116	3649000000-E	876	RIP RAP, CLASS B	4,000 TON		

County: NEW HANOVER, PENDER

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0117	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	18,255 SY		
0118	4048000000-E	902	REINFORCED CONCRETE SIGN FOUNDATIONS	34 CY		
0119	4054000000-E	902	PLAIN CONCRETE SIGN FOUNDATIONS	3 CY		
0120	4057000000-E	SP	OVERHEAD FOOTING	418 CY		
0121	4060000000-E	903	SUPPORTS, BREAKAWAY STEEL BEAM	33,005 LB		
0122	4066000000-E	903	SUPPORTS, SIMPLE STEEL BEAM	2,855 LB		
0123	4072000000-E	903	SUPPORTS, 3-LB STEEL U-CHANNEL	3,518 LF		
0124	4096000000-N	904	SIGN ERECTION, TYPE D	5 EA		
0125	4102000000-N	904	SIGN ERECTION, TYPE E	106 EA		
0126	4108000000-N	904	SIGN ERECTION, TYPE F	23 EA		
0127	4109000000-N	904	SIGN ERECTION, TYPE *** (OVERHEAD) (A)	46 EA		
0128	4109000000-N	904	SIGN ERECTION, TYPE *** (OVERHEAD) (B)	18 EA		
0129	4110000000-N	904	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)	39 EA		
0130	4110000000-N	904	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (B)	16 EA		
0131	4114000000-N	904	SIGN ERECTION, MILEMARKERS	50 EA		
0132	4115000000-N	904	SIGN ERECTION, OVERLAY (OVERHEAD)	12 EA		

County: NEW HANOVER, PENDER

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0133	4116000000-N	904	SIGN ERECTION, OVERLAY (GROUND MOUNTED)	1 EA		
0134	4116100000-N	904	SIGN ERECTION, RELOCATE TYPE **** (GROUND MOUNTED) (D)	1 EA		
0135	4130000000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE ***** (100+00 -Y33-)	Lump Sum	L.S.	
0136	4130000000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE ***** (150+00 -L-)	Lump Sum	L.S.	
0137	4130000000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE ***** (18+36 -Y33RPCA-)	Lump Sum	L.S.	
0138	4130000000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE ***** (201+77 -L-)	Lump Sum	L.S.	
0139	4130000000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE ***** (222+94 -L1-)	Lump Sum	L.S.	
0140	4130000000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE ***** (246+00 -L1-)	Lump Sum	L.S.	
0141	4130000000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE ***** (246+70 -L1-)	Lump Sum	L.S.	
0142	4130000000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE ***** (259+88 -L1-)	Lump Sum	L.S.	
0143	4130000000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE ***** (36+80 -Y33-)	Lump Sum	L.S.	
0144	4130000000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE ***** (48+15 -Y33-)	Lump Sum	L.S.	
0145	4130000000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE ***** (52+00 -Y33-)	Lump Sum	L.S.	
0146	4152000000-N	907	DISPOSAL OF SIGN SYSTEM, STEEL BEAM	16 EA		
0147	4155000000-N	907	DISPOSAL OF SIGN SYSTEM, U- CHANNEL	20 EA		

County: NEW HANOVER, PENDER

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0148	4158000000-N	907	DISPOSAL OF SIGN SYSTEM, WOOD	2 EA		
0149	4192000000-N	907	DISPOSAL OF SUPPORT, U-CHANNEL	1 EA		
0150	4234000000-N	907	DISPOSAL OF SIGN, A OR B (OVERHEAD)	41 EA		
0151	4238000000-N	907	DISPOSAL OF SIGN, D, E OR F	3 EA		
0152	4238500000-N	907	DISPOSAL OF SIGN, MILEMARKER	20 EA		
0153	4251000000-N	907	DISPOSAL OF LIGHTING SYSTEM	4 EA		
0154	4360000000-N	SP	GENERIC SIGNING ITEM VERTICAL PANEL TYPE 3 OBJECT MARKER - OM3-C	1 EA		
0155	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	608 SF		
0156	4405000000-E	1110	WORK ZONE SIGNS (PORTABLE)	404 SF		
0157	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	192 SF		
0158	4415000000-N	1115	FLASHING ARROW BOARD	2 EA		
0159	4420000000-N	1120	PORTABLE CHANGEABLE MESSAGE SIGN	5 EA		
0160	4430000000-N	1130	DRUMS	350 EA		
0161	4445000000-E	1145	BARRICADES (TYPE III)	592 LF		
0162	4455000000-N	1150	FLAGGER	90 DAY		
0163	4465000000-N	1160	TEMPORARY CRASH CUSHIONS	8 EA		
0164	4470000000-N	1160	REMOVE & RESET TEMPORARY CRASH CUSHION	3 EA		

County: NEW HANOVER, PENDER

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0165	4480000000-N	1165	TMA	3 EA		
0166	4485000000-E	1170	PORTABLE CONCRETE BARRIER	6,700 LF		
0167	4500000000-E	1170	REMOVE AND RESET PORTABLE CONCRETE BARRIER	2,600 LF		
0168	4650000000-N	1251	TEMPORARY RAISED PAVEMENT MARKERS	1,220 EA		
0169	4685000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	35,612 LF		
0170	4688000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (6", 90 MILS)	243,975 LF		
0171	4700000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)	14,912 LF		
0172	4709000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (24", 90 MILS)	155 LF		
0173	4720000000-E	1205	THERMOPLASTIC PAVEMENT MARKING CHARACTER (90 MILS)	12 EA		
0174	4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	47 EA		
0175	4810000000-E	1205	PAINT PAVEMENT MARKING LINES (4")	85,700 LF		
0176	4835000000-E	1205	PAINT PAVEMENT MARKING LINES (24")	260 LF		
0177	4840000000-N	1205	PAINT PAVEMENT MARKING CHARACTER	16 EA		
0178	4845000000-N	1205	PAINT PAVEMENT MARKING SYMBOL	30 EA		
0179	4846000000-E	1205	POLYUREA PAVEMENT MARKING LINES (***, *** MILS) (12", 30 MILS)	64 LF		
0180	4846000000-E	1205	POLYUREA PAVEMENT MARKING LINES (***, *** MILS) (4", 30 MILS)	2,150 LF		
0181	4846000000-E	1205	POLYUREA PAVEMENT MARKING LINES (***, *** MILS) (6", 30 MILS)	7,656 LF		

County: NEW HANOVER, PENDER

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0182	4895000000-N	SP	GENERIC PAVEMENT MARKING ITEM POLYCARBONATE H-SHAPED MARKERS	2,750 EA		
0183	4900000000-N	1251	PERMANENT RAISED PAVEMENT MARKERS	26 EA		
0184	5255000000-N	1413	PORTABLE LIGHTING	Lump Sum	L.S.	
0185	5325600000-E	1510	6" WATER LINE	1,604.9 LF		
0186	5325800000-E	1510	8" WATER LINE	162.4 LF		
0187	5329000000-E	1510	DUCTILE IRON WATER PIPE FITTINGS	2,075 LB		
0188	5540000000-E	1515	6" VALVE	2 EA		
0189	5648000000-N	1515	RELOCATE WATER METER	1 EA		
0190	5666000000-N	1515	FIRE HYDRANT	2 EA		
0191	5673000000-E	1515	FIRE HYDRANT LEG	16.1 LF		
0192	5686000000-E	1515	*** WATER SERVICE LINE (1-1/2")	12.2 LF		
0193	5800000000-E	1530	ABANDON 6" UTILITY PIPE	1,609.6 LF		
0194	5815500000-N	1530	REMOVE FIRE HYDRANT	1 EA		
0195	5835600000-E	1540	12" ENCASEMENT PIPE	378.7 LF		
0196	5872500000-E	1550	BORE AND JACK OF *** (12")	62.8 LF		
0197	5872600000-E	1550	DIRECTIONAL DRILLING OF *** (8")	162.4 LF		
0198	6000000000-E	1605	TEMPORARY SILT FENCE	361,220 LF		

County: NEW HANOVER, PENDER

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0199	6006000000-E	1610	STONE FOR EROSION CONTROL, CLASS A	4,620 TON		
0200	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	37,430 TON		
0201	6012000000-E	1610	SEDIMENT CONTROL STONE	18,785 TON		
0202	6015000000-E	1615	TEMPORARY MULCHING	677 ACR		
0203	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	18,300 LB		
0204	6021000000-E	1620	FERTILIZER FOR TEMPORARY SEEDING	93 TON		
0205	6024000000-E	1622	TEMPORARY SLOPE DRAINS	54,420 LF		
0206	6029000000-E	SP	SAFETY FENCE	62,440 LF		
0207	6030000000-E	1630	SILT EXCAVATION	115,000 CY		
0208	6036000000-E	1631	MATting FOR EROSION CONTROL	417,550 SY		
0209	6037000000-E	1629	COIR FIBER MAT	47,750 SY		
0210	6042000000-E	1632	1/4" HARDWARE CLOTH	10,520 LF		
0211	6043000000-E	1644	LOW PERMEABILITY GEOTEXTILE	6,400 SY		
0212	6045000000-E	SP	*** TEMPORARY PIPE (36")	170 LF		
0213	6045000000-E	SP	*** TEMPORARY PIPE (60")	50 LF		
0214	6046000000-E	1636	TEMPORARY PIPE FOR STREAM CROSSING	350 LF		
0215	6048000000-E	SP	FLOATING TURBIDITY CURTAIN	185 SY		

County: NEW HANOVER, PENDER

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0216	6069000000-E	1638	STILLING BASINS	3,310 CY		
0217	6070000000-N	1639	SPECIAL STILLING BASINS	7 EA		
0218	6071002000-E	1642	FLOCCULANT	52,365 LB		
0219	6071012000-E	1642	COIR FIBER WATTLE	46,600 LF		
0220	6071014000-E	1642	COIR FIBER WATTLE BARRIER	25,680 LF		
0221	6071030000-E	1640	COIR FIBER BAFFLE	30,900 LF		
0222	6071050000-E	1644	*** SKIMMER (1-1/2")	88 EA		
0223	6071050000-E	1644	*** SKIMMER (2")	7 EA		
0224	6071050000-E	1644	*** SKIMMER (2-1/2")	3 EA		
0225	6084000000-E	1660	SEEDING & MULCHING	553 ACR		
0226	6087000000-E	1660	MOWING	585 ACR		
0227	6090000000-E	1661	SEED FOR REPAIR SEEDING	6,750 LB		
0228	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	25 TON		
0229	6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	8,875 LB		
0230	6108000000-E	1665	FERTILIZER TOPDRESSING	266.25 TON		
0231	6111000000-E	SP	IMPERVIOUS DIKE	2,110 LF		
0232	6114500000-N	1667	SPECIALIZED HAND MOWING	85 MHR		

County: NEW HANOVER, PENDER

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0233	6114800000-N	SP	MANUAL LITTER REMOVAL	325 MHR		
0234	6114900000-E	SP	LITTER DISPOSAL	18 TON		
0235	6117000000-N	1675	RESPONSE FOR EROSION CONTROL	250 EA		
0236	6117500000-N	SP	CONCRETE WASHOUT STRUCTURE	4 EA		
0237	6120000000-E	SP	CULVERT DIVERSION CHANNEL	2,575 CY		
0238	6132000000-N	SP	GENERIC EROSION CONTROL ITEM PREFABRICATED CONCRETE WASHOUT	16 EA		
0239	6141000000-E	SP	GENERIC EROSION CONTROL ITEM PERMANENT SOIL REINFORCEMENT MAT, TYPE 1	1,485 SY		
CULVERT ITEMS						
0240	8130000000-N	414	BOX CULVERT EXCAVATION, STA ***** (253+30.00 -L1-)	Lump Sum	L.S.	
0241	8130000000-N	414	BOX CULVERT EXCAVATION, STA ***** (283+45.00 -L1-)	Lump Sum	L.S.	
0242	8130000000-N	414	BOX CULVERT EXCAVATION, STA ***** (305+99.00 -L1-)	Lump Sum	L.S.	
0243	8130000000-N	414	BOX CULVERT EXCAVATION, STA ***** (443+00.00 -L1-)	Lump Sum	L.S.	
0244	8130000000-N	414	BOX CULVERT EXCAVATION, STA ***** (49+88.00 -Y33RPCA-)	Lump Sum	L.S.	
0245	8130000000-N	414	BOX CULVERT EXCAVATION, STA ***** (523+48.57 -L1REV-)	Lump Sum	L.S.	
0246	8130000000-N	414	BOX CULVERT EXCAVATION, STA ***** (567+53.70 -L1-)	Lump Sum	L.S.	

County: NEW HANOVER, PENDER

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0247	8133000000-E	414	FOUNDATION CONDITIONING MATERIAL, BOX CULVERT	5,809 TON		
0248	8196000000-E	420	CLASS A CONCRETE (CULVERT)	4,083.3 CY		
0249	8245000000-E	425	REINFORCING STEEL (CULVERT)	654,781 LB		
0250	8822000000-E	SP	GENERIC CULVERT ITEM FOUNDATION CONDITIONING GEOTEXTILE	4,082 SY		
WALL ITEMS						
0251	8801000000-E	SP	MSE RETAINING WALL NO **** (1)	1,070 SF		
STRUCTURE ITEMS						
0252	8017000000-N	SP	CONSTRUCTION, MAINTENANCE, & REMOVAL OF TEMP ACCESS AT STA ***** (384+20.26 -L1-)	Lump Sum	L.S.	
0253	8017000000-N	SP	CONSTRUCTION, MAINTENANCE, & REMOVAL OF TEMP ACCESS AT STA ***** (427+46.10 -L1-)	Lump Sum	L.S.	
0254	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT NO ** AT STATION ***** (1, 225+92.26 -L1-)	Lump Sum	L.S.	
0255	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT NO ** AT STATION ***** (1, 23+28.17 -Y35-)	Lump Sum	L.S.	
0256	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT NO ** AT STATION ***** (1, 24+28.73 -Y34-)	Lump Sum	L.S.	
0257	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT NO ** AT STATION ***** (1, 31+84.73 -Y33RPCA-)	Lump Sum	L.S.	
0258	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT NO ** AT STATION ***** (2, 31+84.73 -Y33RPCA-)	Lump Sum	L.S.	
0259	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT NO ** AT STATION ***** (3, 31+84.73 -Y33RPCA--)	Lump Sum	L.S.	

County: NEW HANOVER, PENDER

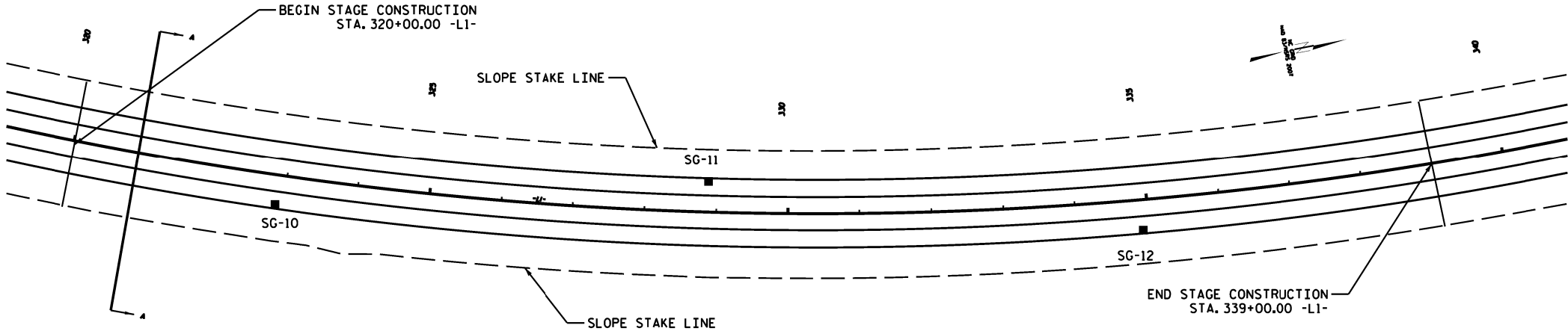
Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0260	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT NO ** AT STATION ***** (4, 31+84.73 -Y33RPCA-)	Lump Sum	L.S.	
0261	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT NO ** AT STATION ***** (5, 31+84.73 -Y33RPCA-)	Lump Sum	L.S.	
0262	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT NO ** AT STATION ***** (6, 31+84.73 -Y33RPCA-)	Lump Sum	L.S.	
0263	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT NO ** AT STATION ***** (7, 31+84.73 -Y33RPCA-)	Lump Sum	L.S.	
0264	8091000000-N	410	FOUNDATION EXCAVATION FOR BENT NO ** AT STATION ***** (8, 31+84.73 -Y33RPCA-)	Lump Sum	L.S.	
0265	8147000000-E	420	REINFORCED CONCRETE DECK SLAB	137,150 SF		
0266	8161000000-E	420	GROOVING BRIDGE FLOORS	133,375 SF		
0267	8175000000-E	420	CLASS AA CONCRETE (BRIDGE)	2,221.7 CY		
0268	8182000000-E	420	CLASS A CONCRETE (BRIDGE)	618.4 CY		
0269	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (225+92.26 -L1-)	Lump Sum	L.S.	
0270	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (23+28.17 -Y35-)	Lump Sum	L.S.	
0271	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (232+80.54 -L1- LT)	Lump Sum	L.S.	
0272	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (232+80.54 -L1- RT)	Lump Sum	L.S.	
0273	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (24+28.73 -Y34-)	Lump Sum	L.S.	
0274	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (31+84.73 -Y33RPCA-)	Lump Sum	L.S.	

County: NEW HANOVER, PENDER

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0275	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (384+20.26 -L1- LT)	Lump Sum	L.S.	
0276	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (384+20.26 -L1- RT)	Lump Sum	L.S.	
0277	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (427+46.10 -L1- LT)	Lump Sum	L.S.	
0278	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (427+46.16 -L1- RT)	Lump Sum	L.S.	
0279	8217000000-E	425	REINFORCING STEEL (BRIDGE)	408,486 LB		
0280	8224000000-E	425	EPOXY COATED REINFORCING STEEL (BRIDGE)	76,404 LB		
0281	8238000000-E	425	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)	3,583 LB		
0282	8277000000-E	430	MODIFIED 72" PRESTRESSED CONC GIRDERS	6,290.33 LF		
0283	8280000000-E	440	APPROX LBS STRUCTURAL STEEL	2,808,131 LS		
0284	8328000000-E	450	PILE DRIVING EQUIPMENT SETUP FOR *** PRESTRESSED CONCRETE PILES (16")	128 EA		
0285	8328000000-E	450	PILE DRIVING EQUIPMENT SETUP FOR *** PRESTRESSED CONCRETE PILES (24")	15 EA		
0286	8328200000-E	450	PILE DRIVING EQUIPMENT SETUP FOR *** STEEL PILES (HP 12 X 53)	63 EA		
0287	8328200000-E	450	PILE DRIVING EQUIPMENT SETUP FOR *** STEEL PILES (HP 14 X 73)	148 EA		
0288	8328400000-E	450	PILE DRIVING EQUIPMENT SETUP FOR *** GALVANIZED STEEL PILES (PP 24 X 0.75)	14 EA		
0289	8333000000-E	450	16" PRESTRESSED CONCRETE PILES	5,990 LF		

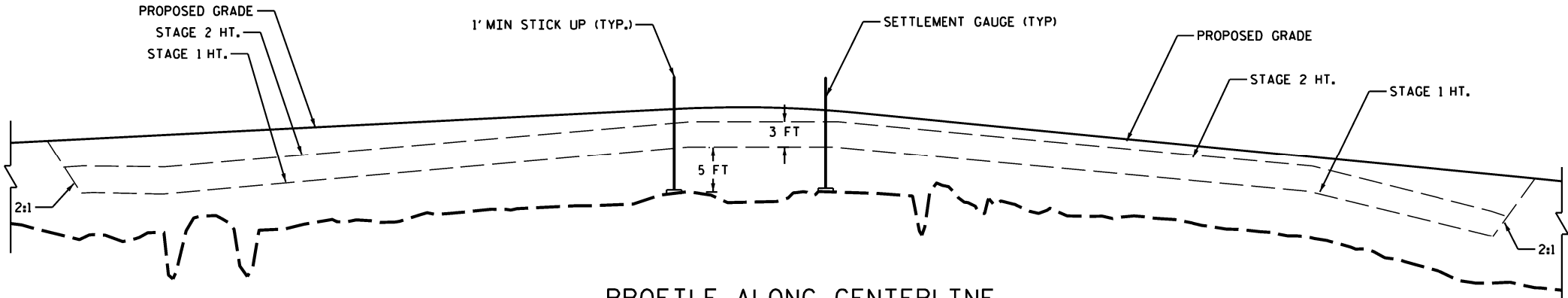
County: NEW HANOVER, PENDER

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0290	8350000000-E	450	24" PRESTRESSED CONCRETE PILES	675 LF		
0291	8364000000-E	450	HP 12 X 53 STEEL PILES	3,135 LF		
0292	8384000000-E	450	HP 14 X 73 STEEL PILES	7,990 LF		
0293	8385200000-E	450	PP ** X **** GALVANIZED STEEL PILES (24 X 0.75)	630 LF		
0294	8391000000-N	450	STEEL PILE POINTS	102 EA		
0295	8392500000-E	450	PREDRILLING FOR PILES	1,611.4 LF		
0296	8393000000-N	450	PILE REDRIVES	190 EA		
0297	8394000000-N	450	DYNAMIC PILE TESTING	14 EA		
0298	8503000000-E	460	CONCRETE BARRIER RAIL	6,357.96 LF		
0299	8531000000-E	462	4" SLOPE PROTECTION	5,033 SY		
0300	8608000000-E	876	RIP RAP CLASS II (2'-0" THICK)	2,078 TON		
0301	8622000000-E	876	GEOTEXTILE FOR DRAINAGE	2,361 SY		
0302	8654000000-N	SP	DISC BEARINGS	Lump Sum	L.S.	
0303	8657000000-N	430	ELASTOMERIC BEARINGS	Lump Sum	L.S.	
0304	8706000000-N	SP	EXPANSION JOINT SEALS	Lump Sum	L.S.	
0305	8713000000-N	SP	MODULAR EXPANSION JOINT SEALS	Lump Sum	L.S.	
0306	8867000000-E	SP	GENERIC STRUCTURE ITEM MODIFIED 56" PRESTRESSED CONCRETE GIRDERS	2,075.7 LF		



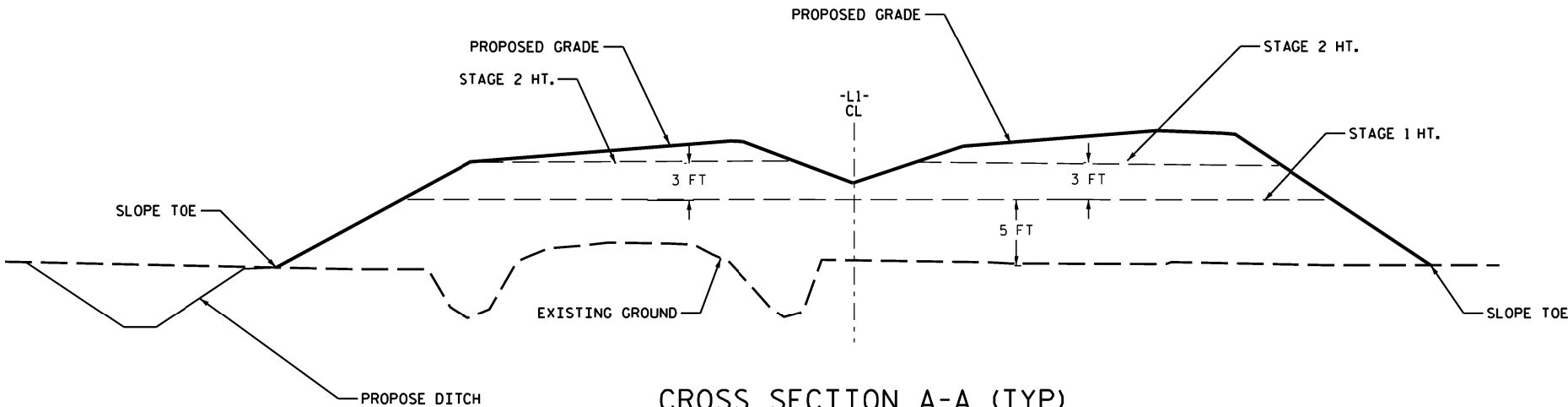
EMBANKMENT PLAN VIEW

NOT TO SCALE



PROFILE ALONG CENTERLINE

NOT TO SCALE



CROSS SECTION A-A (TYP)

NOT TO SCALE

GEOTECHNICAL
ENGINEER

Signed: Y. Liu
06/25/2025

673A8A76BCF14BE... DATE... SIGNATURE... DATE...

ENGINEER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

■ SETTLEMENT GAUGES (SG)

SETTLEMENT GAUGES			
GAUGE NO.	LINE AND STATION NO.	OFFSET	
		DISTANCE FT	DIRECTION LT/RT
SG-10	-L1- 323+00	55	RT
SG-11	-L1- 329+00	55	LT
SG-12	-L1- 335+00	55	RT

STAGE CONSTRUCTION		
STAGE	EMBANKMENT HEIGHTS	WAITING PERIOD*
STAGE 1	5 FT	6 MO.
STAGE 2	3 FT	6 MO.
STAGE 3	PROPOSED GRADE	0 MO.

*BRIDGE/EMBANKMENT WAITING PERIOD AT EACH STAGE

PROJECT NO.: R-3300A
NEW HANOVER/PENDER COUNTY
STATION: 320+00 -L1- & 339+50 -L1-
SHEET 2 OF 8

PREPARED BY: Y. LIU	DATE: 06/25
REVIEWED BY: B. LACKEY	DATE: 06/25

Prepared in the Office of:

CATLIN
Engineers and Scientists

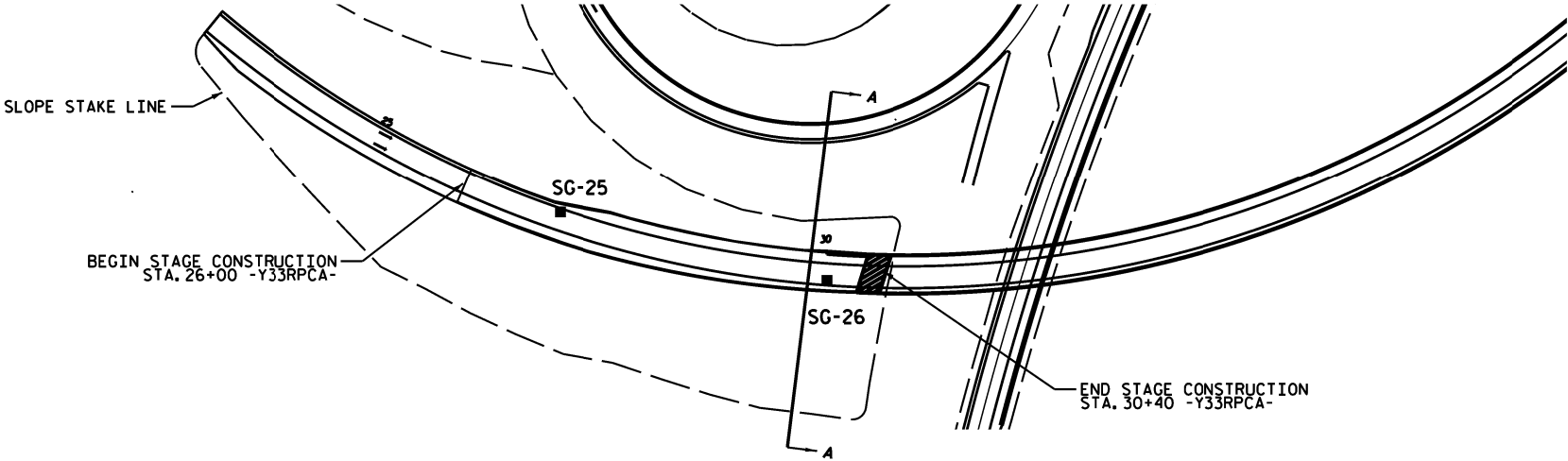


NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL
ENGINEERING UNIT

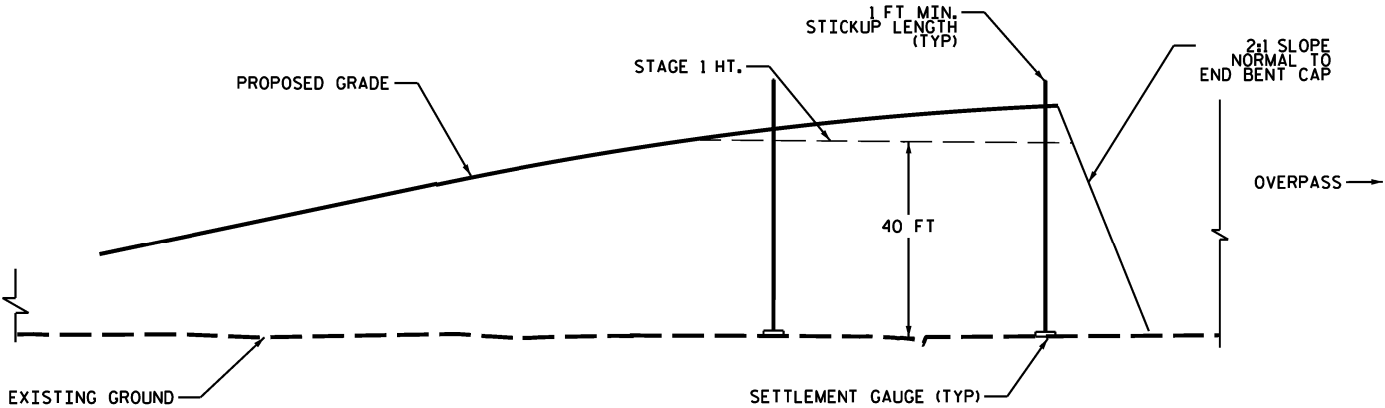
GROUND IMPROVEMENT

REVISIONS						SHEET NO. 2G-2
NO.	BY	DATE	NO.	BY	DATE	
1			3			
2			4			



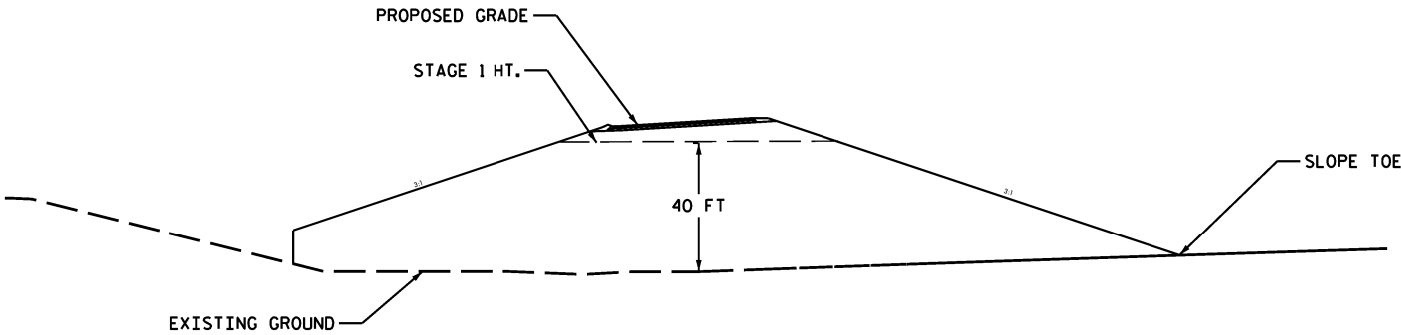
EMBANKMENT PLAN VIEW

NOT TO SCALE



PROFILE ALONG CENTERLINE

NOT TO SCALE



CROSS SECTION A-A (TYP)

NOT TO SCALE



GEOTECHNICAL
ENGINEER

Signed: Yinhui LIU
06/25/2025

ENGINEER

67368A76BCE14BE DATE SIGNATURE DATE

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

■ SETTLEMENT GAUGES (SG)

SETTLEMENT GAUGES			
GAUGE NO.	LINE AND STATION NO.	OFFSET	
		DISTANCE FT	DIRECTION LT/RT
SG-25	-Y33RPCA- 27+00	15	LT
SG-26	-Y33RPCA- 30+00	15	RT

STAGE CONSTRUCTION		
STAGE	EMBANKMENT HEIGHTS	WAITING PERIOD*
STAGE 1	40 FT	2 MO.
STAGE 2	PROPOSED GRADE	1 MO.

* BRIDGE/EMBANKMENT WAITING PERIOD AT EACH STAGE

PROJECT NO.: R-3300A
NEW HANOVER/PENDER COUNTY
STATION: 30+34.00 -Y33RPCA-
SHEET 5 OF 8

PREPARED BY: Y. LIU	DATE: 06/25
REVIEWED BY: B. LACKEY	DATE: 06/25

Prepared in the Office of:

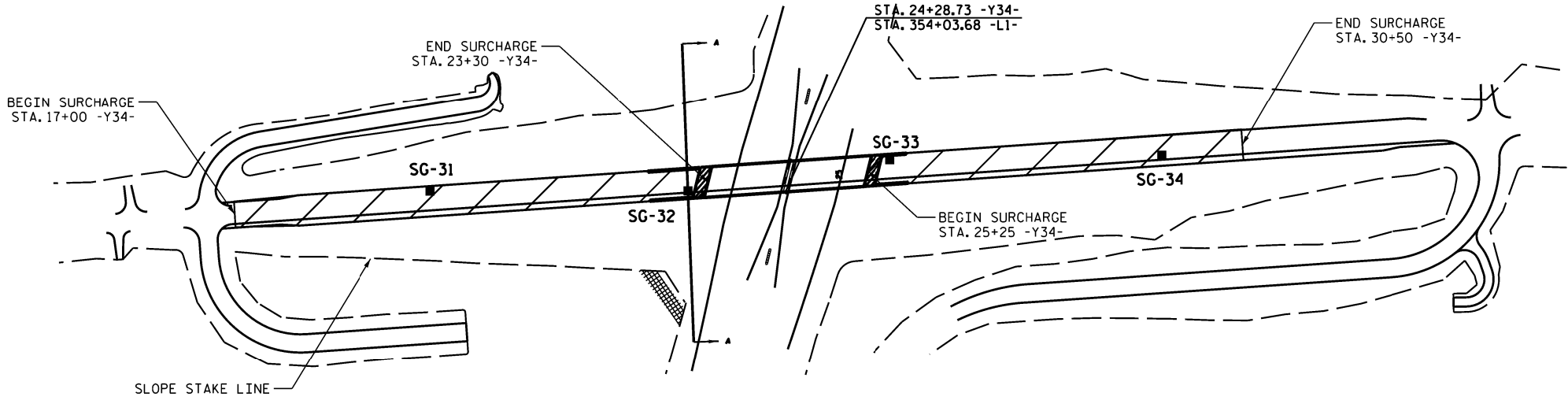
CATLIN
Engineers and Scientists



NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

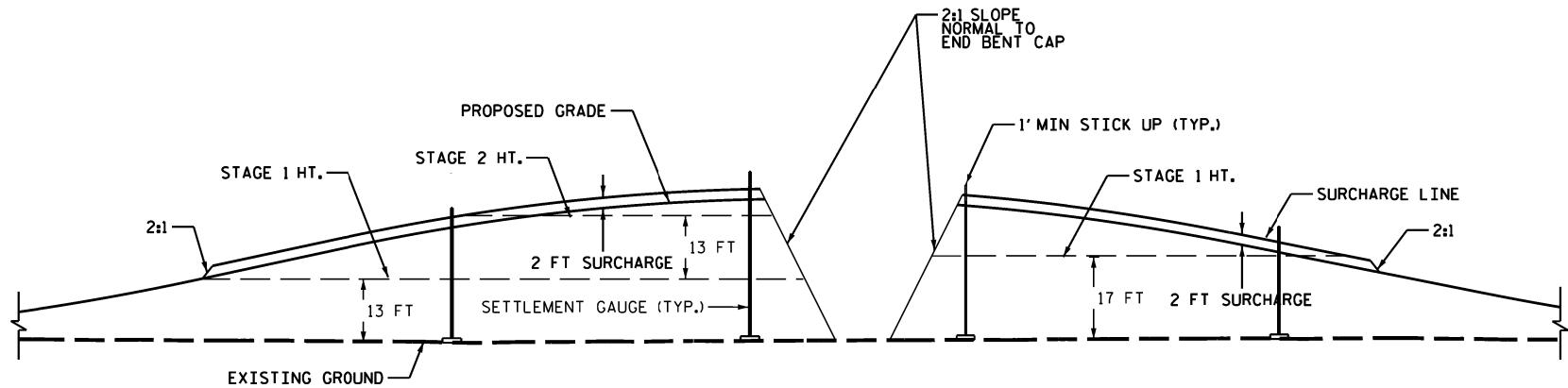
GEOTECHNICAL
ENGINEERING UNIT

REVISIONS						SHEET NO. 2G-5
NO.	BY	DATE	NO.	BY	DATE	
1			3			
2			4			



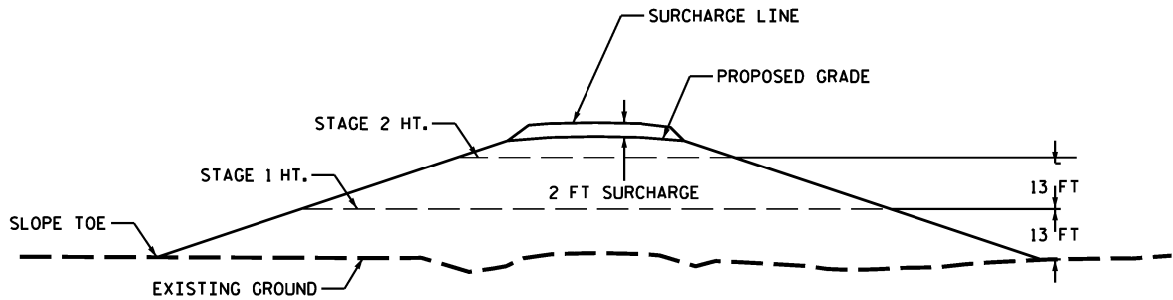
EMBANKMENT PLAN VIEW

NOT TO SCALE



PROFILE ALONG CENTERLINE

NOT TO SCALE



CROSS SECTION A-A (TYP)

NOT TO SCALE

GEOTECHNICAL
ENGINEER

Signed by
Yinhui Liu
6/23/2025

ENGINEER

673ABA76BCF14BE

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

SETTLEMENT GAUGES			
GAUGE NO.	LINE AND STATION NO.	OFFSET	
		DISTANCE FT	DIRECTION LT/RT
SG-31	-Y34- 19+50	15	LT
SG-32	-Y34- 23+00	15	RT
SG-33	-Y34- 25+50	15	LT
SG-34	-Y34- 29+50	15	RT

STAGE CONSTRUCTION			
STATION	STAGE	EMBANKMENT HEIGHTS	WAITING PERIOD*
-Y34- 17+00 TO 23+30	STAGE 1	13 FT	1 MO.
	STAGE 2	26 FT	1 MO.
	STAGE 3	P. G. + 2 FT SURCHARGE	2 MO.
-Y34- 25+30 TO 30+50	STAGE 1	17 FT	1 MO.
	STAGE 2	P. G. + 2 FT SURCHARGE	2 MO.

* BRIDGE/EMBANKMENT WAITING PERIOD AT EACH STAGE
P.G. DENOTED PROPOSED GRADE

PROJECT NO.: R-3300A
NEW HANOVER/PENDER COUNTY
STATION: 24+28.73 -Y34- & 354+03.68 -L1-
SHEET 7 OF 8

PREPARED BY: Y. LIU	DATE: 06/25
REVIEWED BY: B. LACKEY	DATE: 06/25

Prepared in the Office of:

CATLIN
Engineers and Scientists

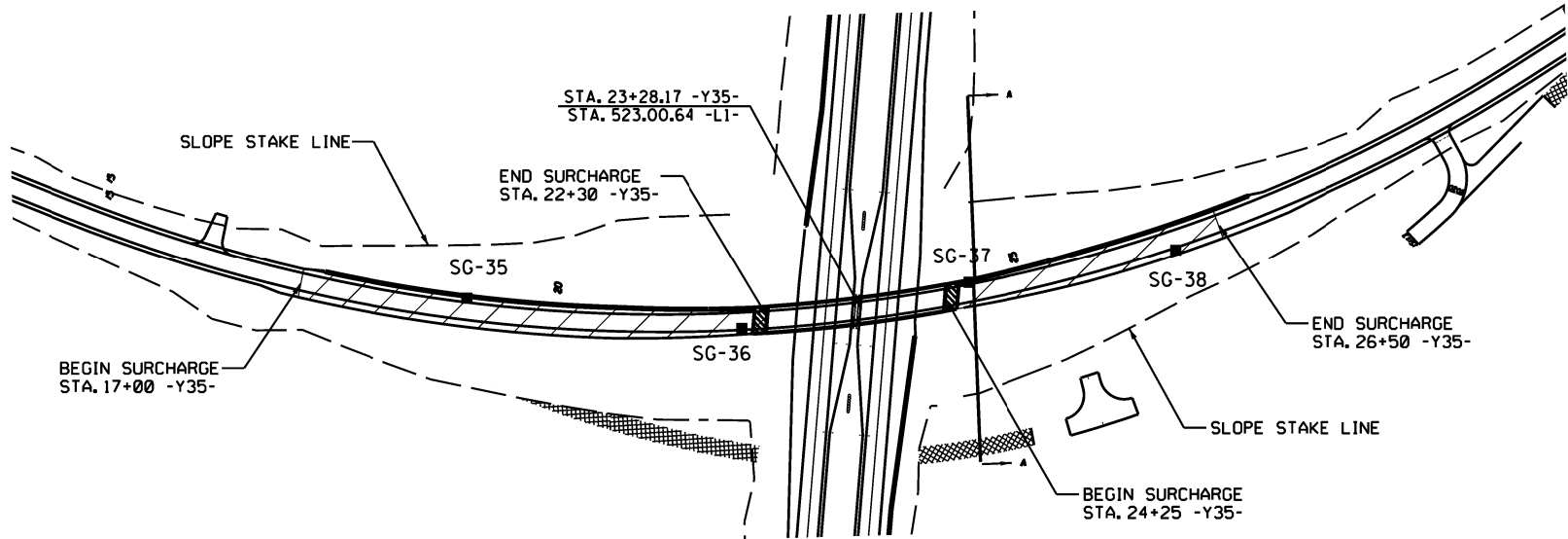
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**GEOTECHNICAL
ENGINEERING UNIT**

GROUND IMPROVEMENT

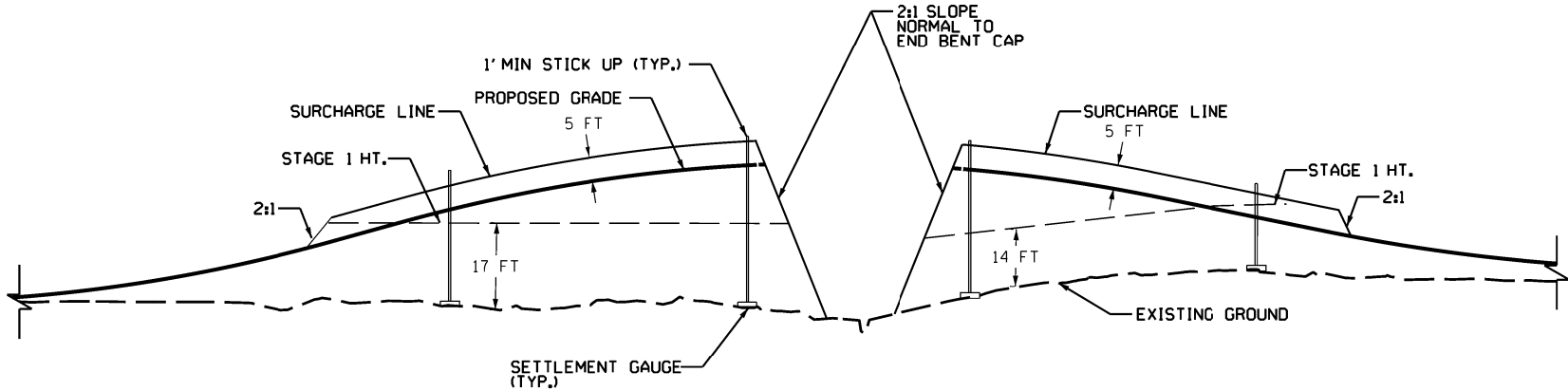
REVISIONS					
NO.	BY	DATE	NO.	BY	DATE
1			3		
2			4		

SHEET NO.
2G-7



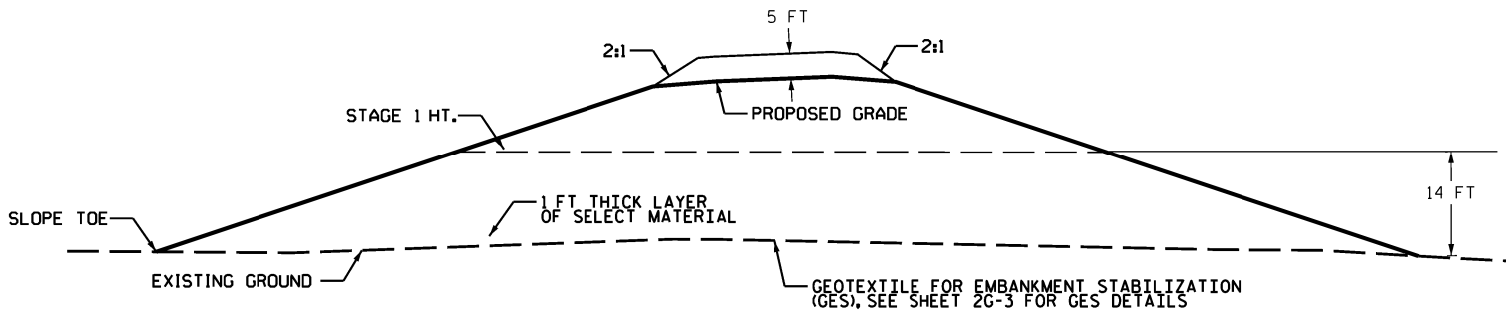
EMBANKMENT PLAN VIEW

NOT TO SCALE



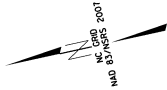
PROFILE ALONG CENTERLINE

NOT TO SCALE



CROSS SECTION A-A (TYP)

NOT TO SCALE



GEOTECHNICAL
ENGINEER

Signed
Yinhui Liu
6/25/2025

ENGINEER

SIGNATURE
6728878BCF14DE

DATE

SIGNATURE

DATE

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

■ SETTLEMENT GAUGES (SG)

SETTLEMENT GAUGES			
GAUGE NO.	LINE AND STATION NO.	OFFSET	
		DISTANCE FT	DIRECTION LT/RT
SG-35	-Y35- 19+00	15	LT
SG-36	-Y35- 22+00	15	RT
SG-37	-Y35- 24+50	15	LT
SG-38	-Y35- 26+00	15	RT

STAGE CONSTRUCTION			
STATION	STAGE	EMBANKMENT HEIGHTS	WAITING PERIOD*
-Y35- 18+00 TO 22+30	STAGE 1	17 FT	2 MO.
	STAGE 2	P. G. + 5 FT SURCHARGE	1 MO.
-Y35- 24+25 TO 26+50	STAGE 1	14 FT	3 MO.
	STAGE 2	P. G. + 5 FT SURCHARGE	1 MO.

* BRIDGE/EMBANKMENT WAITING PERIOD AT EACH STAGE
P.G. DENOTED PROPOSED GRADE

PROJECT NO.: R-3300A
NEW HANOVER/PENDER COUNTY
STATION: 23+28.17 -Y35- & 523+00.64 -L1-
SHEET 8 OF 8

PREPARED BY: Y. LIU	DATE: 06/25
REVIEWED BY: B. LACKEY	DATE: 06/25

Prepared in the Office of:

CATLIN
Engineers and Scientists

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL
ENGINEERING UNIT

REVISIONS						SHEET NO. 2G-8
NO.	BY	DATE	NO.	BY	DATE	
1			3			
2			4			

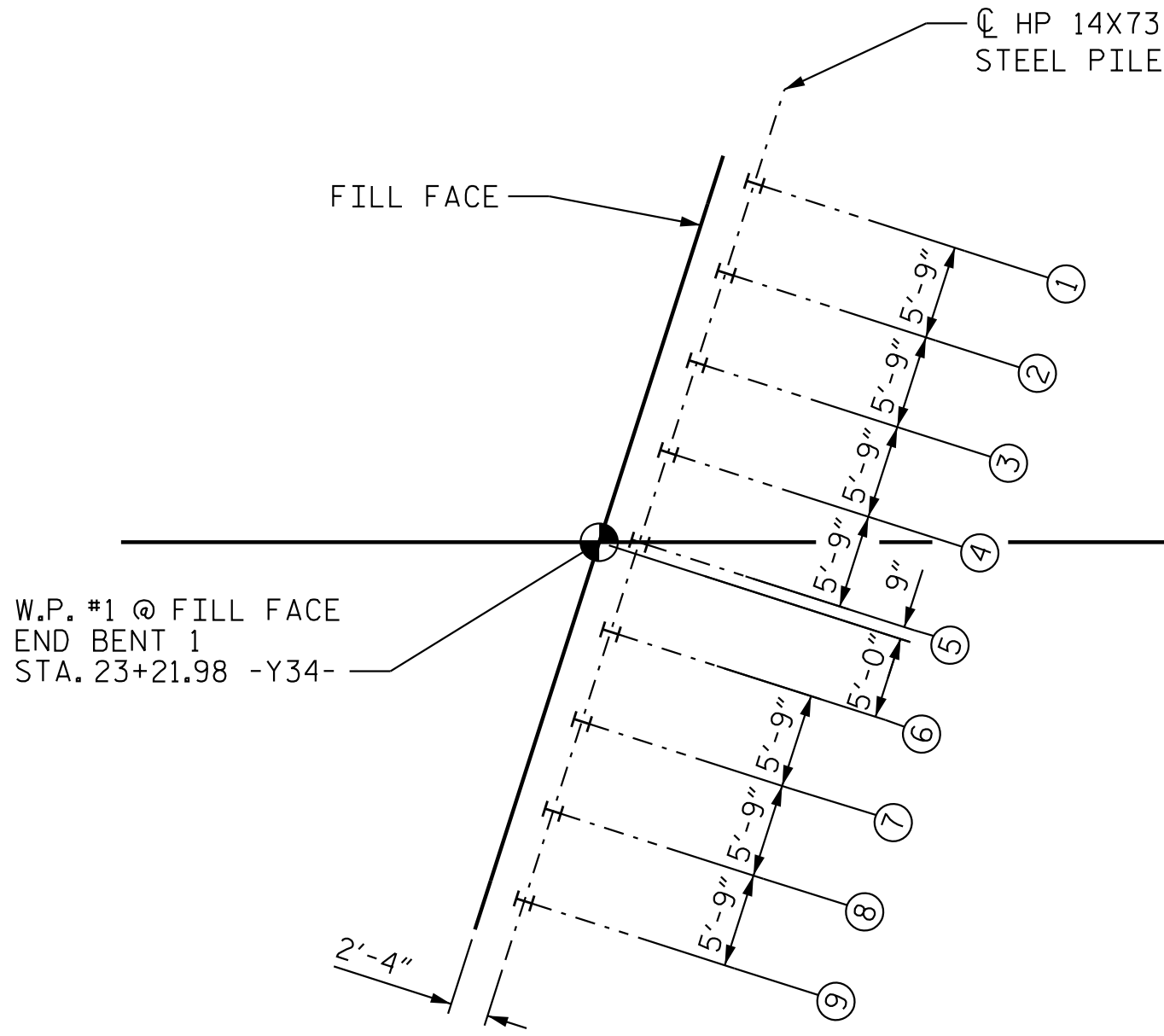
6/25/2025 12:05:48 PM jgelle
U:\Structures\B5 - Y34 - Drafting\Final\B33004_SMJ_FL-640B05.dgn



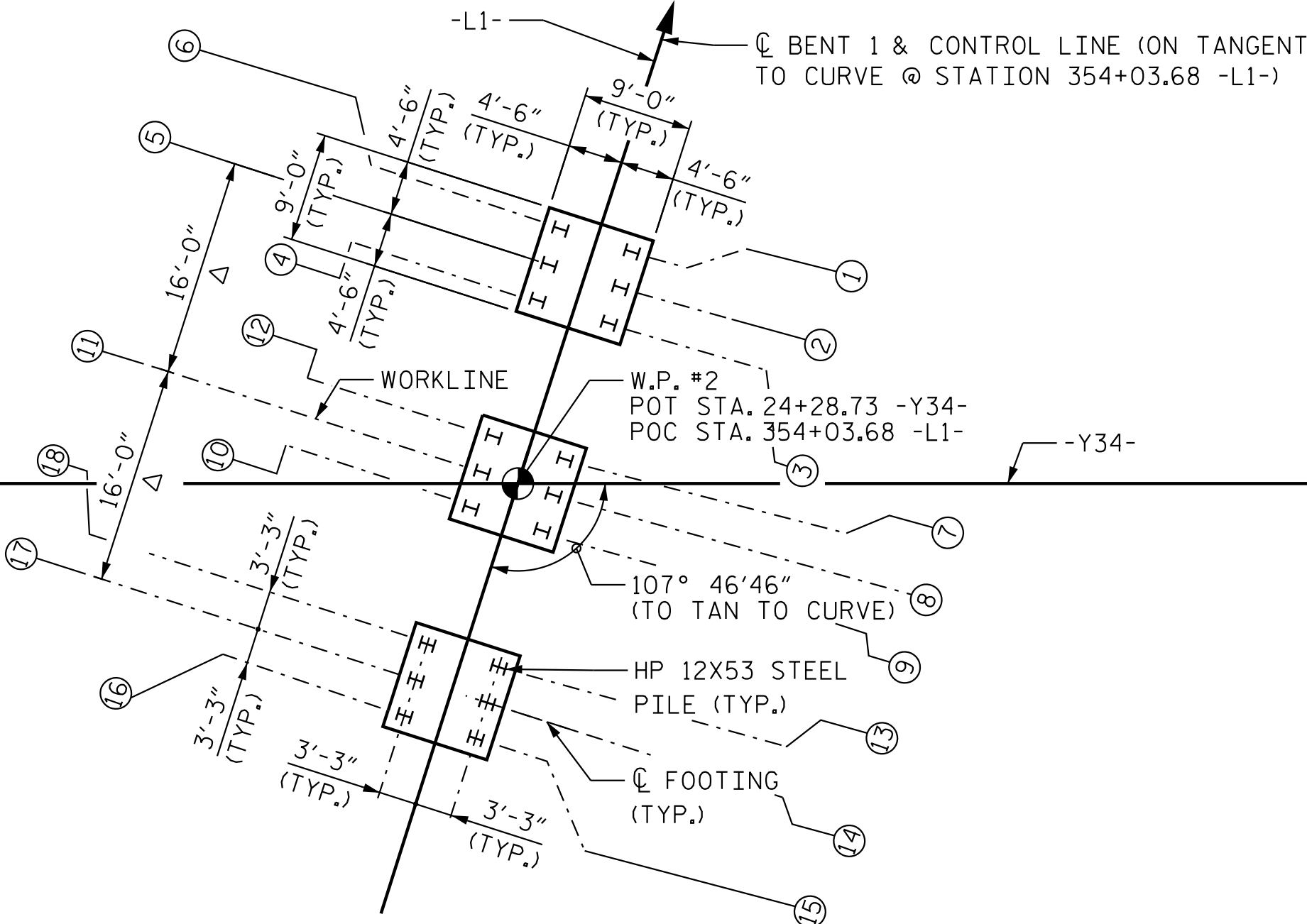
Stantec Consulting Services Inc.
801 Jones Franklin Road
Suite 300
Raleigh, NC 27606
Tel. (919) 851-6866
Fax. (919) 851-7024
www.stantec.com
License No. F-0672

DRAWN BY : J. E. HAGENBUSH DATE : 08/02/18
CHECKED BY : E. M. MURR DATE : 12/03/18

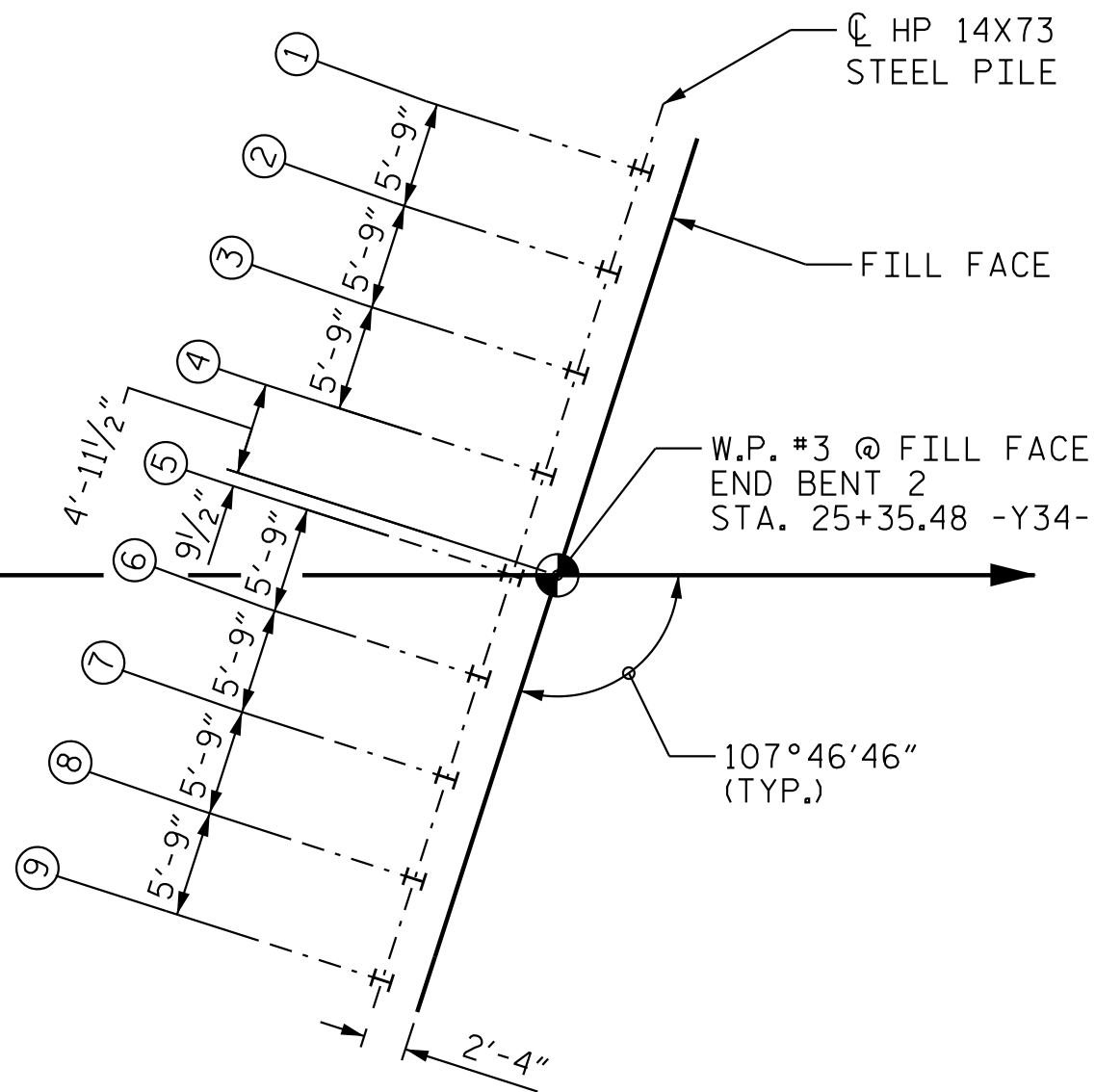
DESIGN ENGINEER OF RECORD: J. T. KELVINGTON DATE : 04/22/25



END BENT 1



BENT 1



END BENT 2

FOUNDATION LAYOUT

Δ WORKLINE TO CL FOOTING ALONG
CL BENT1 AND BENT CONTROL LINE.

NOTES:

- FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
- SEE ROADWAY PLANS AND SECTION 235 OF THE STANDARD SPECIFICATIONS FOR THE SETTLEMENT GAUGES REQUIRED AT END BENTS NO.1 AND 2.
- OBSERVE A 2 MONTH WAITING PERIOD AFTER CONSTRUCTING THE EMBANKMENT TO FINAL GRADE PLUS 2 FT OF SURCHARGE MATERIAL BEFORE BEGINNING END BENT CONSTRUCTION AT END BENTS NO.1 AND 2. FOR BRIDGE WAITING PERIODS, SEE ROADWAY PLANS AND SECTION 235 OF THE STANDARD SPECIFICATIONS.
- APPROACH EMBANKMENT CONSTRUCTION AT END BENT NO.1 MUST BE COMPLETED IN STAGES FOR SHORT TERM SLOPE STABILITY. TOTAL WAITING PERIOD INCLUDING ALL STAGES IS 4 MONTHS AT END BENT NO.1. SEE ROADWAY PLANS FOR EMBANKMENT CONSTRUCTION STAGE DETAILS.
- APPROACH EMBANKMENT CONSTRUCTION AT END BENT NO.2 MUST BE COMPLETED IN STAGES FOR SHORT TERM SLOPE STABILITY. TOTAL WAITING PERIOD INCLUDING ALL STAGES IS 3 MONTHS AT END BENT NO.2. SEE ROADWAY PLANS FOR EMBANKMENT CONSTRUCTION STAGE DETAILS.
- IT HAS BEEN ESTIMATED THAT A HAMMER WITH AN EQUIVALENT RATED ENERGY IN THE RANGE OF 55 TO 75 FT-KIPS PER BLOW WILL BE REQUIRED TO DRIVE PILES AT END BENTS NO.1 AND 2 AND BENT NO.1. THIS ESTIMATED ENERGY RANGE DOES NOT RELEASE THE CONTRACTOR FROM PROVIDING DRIVING EQUIPMENT IN ACCORDANCE WITH SUBARTICLE 450-3(D)(2) OF THE STANDARD SPECIFICATIONS.

PROJECT NO. R-3300A
NEW HANOVER COUNTY
STATION: 24+28.73 -Y34-

SHEET 2 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING

BRIDGE ON SR 1336 (SIDBURY RD.)
OVER US 17 BYPASS BETWEEN
US 17/I-140 AND NC 210/SR1002



DocuSigned by
Joe Kelvington
847C9D37B07746F

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

REVISIONS						SHEET NO. S05-02
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 34
2			4			

SUMMARY OF PILE INFORMATION / INSTALLATION														
(BLANK ENTRIES INDICATE ITEM IS NOT APPLICABLE TO STRUCTURE)														
END BENT / BENT NO. PILE (s) #-(*) (e.g., 'BENT 1, PILES 1-5')	NUMBER OF PILES PER LINE	FACTORED RESISTANCE PER PILE KIPS	PILE CUT-OFF (TOP OF PILE) ELEVATION FT	ESTIMATED PILE LENGTH PER PILE FT	SCOUR CRITICAL ELEVATION FT	DRIVEN PILES			PREDRILLING FOR PILES **			DRILLED-IN PILES		
						MIN. PILE TIP (TIP NO HIGHER THAN) ELEV FT	REQUIRED DRIVING RESISTANCE (RDR)** PER PILE KIPS	TOTAL PILE REDRIVES QUANTITY EACH	PREDRILLING LENGTH PER PILE LIN FT	PREDRILLING ELEVATION (ELEV NOT TO PREDRILL BELOW) FT	MAXIMUM PREDRILLING DIA INCHES	PILE EXCAVATION (BOTTOM OF HOLE) ELEV FT	PILE EXC NOT IN SOIL PER PILE LIN FT	PILE EXC IN SOIL PER PILE LIN FT
END BENT 1, PILES 1-9	9	230	SEE SUBSTRUCTURE PLANS	60			385	5						
BENT 1, PILES 1-18	18	220	SEE SUBSTRUCTURE PLANS	40		-8.3	370	9						
END BENT 2, PILES 1-9	9	230	SEE SUBSTRUCTURE PLANS	65			385	5						
TOTAL QUANTITY:								19						

* RDR= $\frac{\text{FACTORED RESISTANCE} + \text{FACTORED DRAG LOAD} + \text{FACTORED DEAD LOAD}}{\text{DYNAMIC RESISTANCE FACTOR}}$ + NORMAL DOWNDRAW RESISTANCE + $\frac{\text{NORMAL SCOUR RESISTANCE}}{\text{SCOUR RESISTANCE FACTOR}}$

** PREDRILLING FOR PILES IS REQUIRED FOR END BENTS/ BENT WITH A PREDRILLING LENGTH AND AT THE CONTRACTOR'S OPTION FOR END BENTS/ BENTS WITH PREDRILLING INFORMATION BUT NO PREDRILLING LENGTH.

SUMMARY OF DPT / PILE ORDER LENGTHS				
(BLANK ENTRIES INDICATE ITEM IS NOT APPLICABLE TO STRUCTURE)				
DYNAMIC PILE TESTING (DPT)			PILE ORDER LENGTHS FOR CONCRETE PILES	
END BENT / BENT NO. (e.g., 'BENT 1 - BENT 3')	DPT TEST PILE LENGTH FT	DPT TESTING QUANTITY EACH	END BENT / BENT NO. (e.g., 'BENT 1 - BENT 3')	PILE ORDER LENGTH BASIS * EST OR DPT
END BENT 1	65	1		
BENT 1	45			
END BENT 2	70			
TOTAL QUANTITY:		1		

* EST = PILE ORDER LENGTHS FROM ESTIMATED PILE LENGTHS; DPT = PILE ORDER LENGTHS BASED ON DYNAMIC PILE TESTING. FOR GROUPS OF END BENTS/BENTS WITH PILE ORDER LENGTHS BASED ON DPT TESTING, THE FIRST END BENT/ BENT NO. LISTED FOR EACH GROUP IS THE REPRESENTATIVE END BENT/ BENT WITH THE DPT.

PILE DESIGN INFORMATON						
(BLANK ENTRIES INDICATE ITEM IS NOT APPLICABLE TO STRUCTURE)						
END BENT / BENT NO. PILE (s) #-(*) (e.g., 'BENT 1, PILES 1-5')	FACTORED AXIAL LOAD PER PILE KIPS	FACTORED DRAG LOAD PER PILE KIPS	FACTORED DEAD LOAD * PER PILE KIPS	DRYAMIC RESISTANCE FACTOR	NOMINAL DRAG RESISTANCE PER PILE KIPS	NOMINAL SCOUR RESISTANCE PER PILE KIPS
END BENT 1, PILES 1-9	221			0.6		
BENT 1, PILES 1-18	220			0.6		
END BENT 2, PILES 1-9	221			0.6		

* FACTORED DEAD LOAD IS FACTORED WEIGHT OF PILE ABOVE THE GROUND LINE.

SUMMARY OF PILE ACCESSORIES				
(BLANK ENTRIES INDICATE ITEM IS NOT APPLICABLE TO STRUCTURE)				
END BENT / BENT NO. PILE (s) #-(*) (e.g., 'BENT 1, PILES 1-5')	PIPE PILE PLATES EACH	STEEL PILE POINTS		
		PIPE PILE CUTTING SHOES EACH	PIPE PILE CONICAL POINTS EACH	H-PILE POINTS EACH
TOTAL QUANTITY:				

PROJECT NO. R-3300A
NEW HANOVER COUNTY
STATION: 24+28.73 -Y34-

SHEET 3 OF 4

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
PILE FOUNDATION TABLES					

