



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

March 01, 2021

Addendum No. 1

RE: Contract # C204359

WBS # 50056.3.1

FEDERAL-AID NO. HSIP-0070(163)

Johnston County

US-70 FROM US-70 BUS TO NEUSE RIVER BRIDGE WITH INTERCHANGES
AT SR-1501 (SWIFT CREEK RD) AND SR-1919 (WILSONS MILLS RD).

March 16, 2021 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 Structure plans.

Sheet No.	Revision
C3-1	Revised to reflect quantity change below

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

The following revisions have been made to the Roadway plans.

Sheet No.	Revision
2A-1	Revised to reflect quantity and pay item changes below
2A-2	Revised to reflect quantity and pay item changes below
2A-3	Revised to reflect quantity and pay item changes below
2A-4	Revised to reflect quantity and pay item changes below
2A-5	Revised to reflect quantity and pay item changes below

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.	Revisions
Proposal Cover	Note added that reads "Includes Addendum No. 1 Dated 03-01-2021"
New Page R-33	New page added to include Project Special Provision entitled REPAIRS TO EXISTING ROADS

Please void the above listed existing Page in your proposal and staple the revised Page thereto. Staple New Page R-33 after existing page R-32 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>
0080-1297000000-E-607	MILLING ASPHALT PAVEMENT, 2-1/2" DEPTH	125,000 SY	136,200 SY
0085-1523000000-E-610	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	43,600 TON	DELETED
0086-1575000000-E-620	ASPHALT BINDER FOR PLANT MIX	19,790 TON	17,175 TON
0360-1308000000-E-607	MILLING ASPHALT PAVEMENT, 2-1/2" TO 4" DEPTH	NEW ITEM	24,800 SY
0361-1524200000-E-610	ASPHALT CONC SURFACE COURSE, TYPE S9.5D	NEW ITEM	43,600 TON
0362-1577000000-E-620	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX	NEW ITEM	2,490 TON
0327- 8196000000-E-420	CLASS A CONCRETE (CULVERT)	939.7 CY	858.7 CY

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. Kevin Bowen, PE
Mr. Boyd Tharrington, PE
Mr. Jon Weathersbee, PE
Mr. Ken Kennedy, PE
Project File (2)

Mr. Ray Arnold, PE
Ms. Jaci Kincaid
Ms. Lori Strickland
Mr. Mike Gwyn
Ms. Penny Higgins
Mr. Kyle Kempf

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

PROPOSAL

INCLUDES ADDENDUM No.1 DATED 03-01-2021

DATE AND TIME OF BID OPENING: **MARCH 16, 2021 AT 2:00 PM**

CONTRACT ID C204359
WBS 50056.3.1

FEDERAL-AID NO. HSIP-0070(163)

COUNTY JOHNSTON

T.I.P. NO. W-5600

MILES 4.978

ROUTE NO. US 70

LOCATION US-70 FROM US-70 BUS TO NEUSE RIVER BRIDGE WITH INTERCHANGES
AT SR-1501 (SWIFT CREEK RD) AND SR-1919 (WILSONS MILLS RD).

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

REPAIRS TO EXISTING ROADS:

The Contractor is advised that as part of this contract, he will be required to maintain and resurface existing roads adjacent to this project that are used by the Contractor for hauling materials and/or equipment as directed by the Engineer. At the preconstruction conference, the Contractor shall present a detailed plan of his operations including the use of any existing roads for transporting materials to and from the project. Any existing road which is not posted with weight limits less than the legal weight limit and utilized as described above will be maintained in a safe and passable condition as directed by the Engineer. Repair and maintenance of these existing roads will be paid for at the contract unit prices for the various items involved except as follows:

The existing weight limit, if less than legal weight limit, on existing roads may be removed if requested; however, the Contractor will be responsible for maintaining these roads at his own expense in accordance with Article 105-15 of the *Standard Specifications*.

County : Johnston

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 & GRUB- BING	3 ACR		
0005	0022000000-E	225	UNCLASSIFIED EXCAVATION	300,000 CY		
0006	0028000000-N	SP	TYPE I STANDARD APPROACH FILL STATION ***** (27+01.91 -Y7-)	Lump Sum	L.S.	
0007	0029000000-N	SP	TYPE III REINFORCED APPROACH FILL, STATION ***** (217+31.76 -L- LT)	Lump Sum	L.S.	
0008	0029000000-N	SP	TYPE III REINFORCED APPROACH FILL, STATION ***** (217+31.76 -L- RT)	Lump Sum	L.S.	
0009	0036000000-E	225	UNDERCUT EXCAVATION	14,450 CY		
0010	0106000000-E	230	BORROW EXCAVATION	400,000 CY		
0011	0134000000-E	240	DRAINAGE DITCH EXCAVATION	35,000 CY		
0012	0141000000-E	240	BERM DITCH CONSTRUCTION	830 LF		
0013	0156000000-E	250	REMOVAL OF EXISTING ASPHALT PAVEMENT	80,000 SY		
0014	0177000000-E	250	BREAKING OF EXISTING ASPHALT PAVEMENT	12,490 SY		
0015	0195000000-E	265	SELECT GRANULAR MATERIAL	18,200 CY		
0016	0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZA- TION	23,850 SY		
0017	0223000000-E	275	ROCK PLATING	4,400 SY		
0018	0318000000-E	300	FOUNDATION CONDITIONING MATE- RIAL, MINOR STRUCTURES	3,250 TON		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0019	0320000000-E	300	FOUNDATION CONDITIONING GEO-TEXTILE	14,260	SY	
0020	0342000000-E	310	*** SIDE DRAIN PIPE (30")	496	LF	
0021	0342000000-E	310	*** SIDE DRAIN PIPE (36")	172	LF	
0022	0342000000-E	310	*** SIDE DRAIN PIPE (42")	824	LF	
0023	0342000000-E	310	*** SIDE DRAIN PIPE (48")	172	LF	
0024	0343000000-E	310	15" SIDE DRAIN PIPE	2,626	LF	
0025	0344000000-E	310	18" SIDE DRAIN PIPE	2,152	LF	
0026	0345000000-E	310	24" SIDE DRAIN PIPE	1,844	LF	
0027	0348000000-E	310	*** SIDE DRAIN PIPE ELBOWS (15")	10	EA	
0028	0348000000-E	310	*** SIDE DRAIN PIPE ELBOWS (18")	2	EA	
0029	0354000000-E	310	**** RC PIPE CULVERTS, CLASS ***** (15", V)	744	LF	
0030	0354000000-E	310	**** RC PIPE CULVERTS, CLASS ***** (18", V)	536	LF	
0031	0354000000-E	310	**** RC PIPE CULVERTS, CLASS ***** (24", V)	140	LF	
0032	0354000000-E	310	**** RC PIPE CULVERTS, CLASS ***** (30", V)	64	LF	
0033	0366000000-E	310	15" RC PIPE CULVERTS, CLASS III	992	LF	
0034	0372000000-E	310	18" RC PIPE CULVERTS, CLASS III	1,592	LF	

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0035	0378000000-E	310	24" RC PIPE CULVERTS, CLASS III	40 LF		
0036	0384000000-E	310	30" RC PIPE CULVERTS, CLASS III	612 LF		
0037	0390000000-E	310	36" RC PIPE CULVERTS, CLASS III	748 LF		
0038	0396000000-E	310	42" RC PIPE CULVERTS, CLASS III	664 LF		
0039	0402000000-E	310	48" RC PIPE CULVERTS, CLASS III	308 LF		
0040	0408000000-E	310	54" RC PIPE CULVERTS, CLASS III	92 LF		
0041	0426000000-E	310	72" RC PIPE CULVERTS, CLASS III	404 LF		
0042	0448200000-E	310	15" RC PIPE CULVERTS, CLASS IV	1,184 LF		
0043	0448300000-E	310	18" RC PIPE CULVERTS, CLASS IV	712 LF		
0044	0448400000-E	310	24" RC PIPE CULVERTS, CLASS IV	76 LF		
0045	0448500000-E	310	30" RC PIPE CULVERTS, CLASS IV	80 LF		
0046	0448600000-E	310	36" RC PIPE CULVERTS, CLASS IV	756 LF		
0047	0576000000-E	310	*** CS PIPE CULVERTS, ***** THICK (36", 0.079")	20 LF		
0048	0582000000-E	310	15" CS PIPE CULVERTS, 0.064" THICK	96 LF		
0049	0588000000-E	310	18" CS PIPE CULVERTS, 0.064" THICK	40 LF		
0050	0594000000-E	310	24" CS PIPE CULVERTS, 0.064" THICK	32 LF		
0051	0600000000-E	310	30" CS PIPE CULVERTS, 0.079" THICK	32 LF		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0052	0636000000-E	310	*** CS PIPE ELBOWS, ***** THICK (15", 0.064")	2 EA		
0053	0636000000-E	310	*** CS PIPE ELBOWS, ***** THICK (18", 0.064")	2 EA		
0054	0654000000-E	310	**** X **** CS PIPE ARCH CUL- VERTS, ***** THICK (42" X 29", 0.079")	176 LF		
0055	0654000000-E	310	**** X **** CS PIPE ARCH CUL- VERTS, ***** THICK (57" X 38", 0.109")	60 LF		
0056	0973100000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (15", 0.250")	60 LF		
0057	0973100000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (18", 0.250")	406 LF		
0058	0973100000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (24", 0.250")	46 LF		
0059	0973100000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (30", 0.312")	364 LF		
0060	0973100000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (36", 0.312")	106 LF		
0061	0973100000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (42", 0.375")	114 LF		
0062	0973100000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (48", 0.500")	84 LF		
0063	0973100000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (54", 0.500")	122 LF		
0064	0973100000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B IN SOIL (72", 0.625")	104 LF		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0065	0973300000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (15", 0.250")	60 LF		
0066	0973300000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (18", 0.250")	406 LF		
0067	0973300000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (24", 0.250")	46 LF		
0068	0973300000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (30", 0.312")	364 LF		
0069	0973300000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (36", 0.312")	106 LF		
0070	0973300000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (42", 0.375")	114 LF		
0071	0973300000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (48", 0.500")	84 LF		
0072	0973300000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (54", 0.500")	122 LF		
0073	0973300000-E	330	*** WELDED STEEL PIPE, ***** THICK, GRADE B NOT IN SOIL (72", 0.625")	104 LF		
0074	0995000000-E	340	PIPE REMOVAL	3,441 LF		
0075	1011000000-N	500	FINE GRADING	Lump Sum	L.S.	
0076	1099500000-E	505	SHALLOW UNDERCUT	1,150 CY		
0077	1099700000-E	505	CLASS IV SUBGRADE STABILIZATION	2,300 TON		
0078	1121000000-E	520	AGGREGATE BASE COURSE	300 TON		
0079	1220000000-E	545	INCIDENTAL STONE BASE	50 TON		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0080	1297000000-E	607	MILLING ASPHALT PAVEMENT, **** DEPTH (2-1/2")	136,200 SY		
0081	1330000000-E	607	INCIDENTAL MILLING	4,200 SY		
0082	1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0C	209,200 TON		
0083	1503000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE 119.0C	82,500 TON		
0084	1519000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	56,700 TON		
0086	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	17,175 TON		
0087	1693000000-E	654	ASPHALT PLANT MIX, PAVEMENT REPAIR	140 TON		
0088	1840000000-E	665	MILLED RUMBLE STRIPS (ASPHALT CONCRETE)	104,800 LF		
0089	2022000000-E	815	SUBDRAIN EXCAVATION	2,912 CY		
0090	2026000000-E	815	GEOTEXTILE FOR SUBSURFACE DRAINS	1,000 SY		
0091	2033000000-E	815	SUBDRAIN FINE AGGREGATE	2,016 CY		
0092	2036000000-E	815	SUBDRAIN COARSE AGGREGATE	168 CY		
0093	2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	13,000 LF		
0094	2070000000-N	815	SUBDRAIN PIPE OUTLET	26 EA		
0095	2077000000-E	815	6" OUTLET PIPE	156 LF		
0096	2209000000-E	838	ENDWALLS	83.89 CY		
0097	2220000000-E	838	REINFORCED ENDWALLS	35.9 CY		
0098	2253000000-E	840	PIPE COLLARS	13.23 CY		
0099	2275000000-E	SP	FLOWABLE FILL	256 CY		

County: Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0100	2286000000-N	840	MASONRY DRAINAGE STRUCTURES	160 EA		
0101	2297000000-E	840	MASONRY DRAINAGE STRUCTURES	30.4 CY		
0102	2308000000-E	840	MASONRY DRAINAGE STRUCTURES	101.5 LF		
0103	2364000000-N	840	FRAME WITH TWO GRATES, STD 840.16	3 EA		
0104	2364200000-N	840	FRAME WITH TWO GRATES, STD 840.20	59 EA		
0105	2365000000-N	840	FRAME WITH TWO GRATES, STD 840.22	72 EA		
0106	2366000000-N	840	FRAME WITH TWO GRATES, STD 840.24	2 EA		
0107	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)	1 EA		
0108	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)	8 EA		
0109	2374000000-N	840	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	1 EA		
0110	2396000000-N	840	FRAME WITH COVER, STD 840.54	13 EA		
0111	2451000000-N	852	CONCRETE TRANSITIONAL SECTION FOR DROP INLET	3 EA		
0112	2549000000-E	846	2'-6" CONCRETE CURB & GUTTER	2,035 LF		
0113	2556000000-E	846	SHOULDER BERM GUTTER	4,410 LF		
0114	2591000000-E	848	4" CONCRETE SIDEWALK	330 SY		
0115	2605000000-N	848	CONCRETE CURB RAMPS	4 EA		
0116	2619000000-E	850	4" CONCRETE PAVED DITCH	50 SY		
0117	2647000000-E	852	5" MONOLITHIC CONCRETE ISLANDS (SURFACE MOUNTED)	2,460 SY		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0118	2703000000-E	854	CONCRETE BARRIER, TYPE ***** (T)	12,300 LF		
0119	2710000000-N	854	CONCRETE BARRIER TRANSITION SECTION	3 EA		
0120	2724000000-E	857	PRECAST REINFORCED CONCRETE BARRIER, SINGLE FACED	130 LF		
0121	2815000000-N	858	ADJUSTMENT OF DROP INLETS	25 EA		
0122	2905000000-N	859	CONVERT EXISTING DROP INLET TO JUNCTION BOX	1 EA		
0123	3001000000-N	SP	IMPACT ATTENUATOR UNITS, TYPE TL-3	2 EA		
0124	3030000000-E	862	STEEL BEAM GUARDRAIL	12,000 LF		
0125	3150000000-N	862	ADDITIONAL GUARDRAIL POSTS	10 EA		
0126	3210000000-N	862	GUARDRAIL END UNITS, TYPE CAT-1	15 EA		
0127	3215000000-N	SP	GUARDRAIL ANCHOR UNITS, TYPE III	4 EA		
0128	3287000000-N	SP	GUARDRAIL END UNITS, TYPE TL-3	26 EA		
0129	3317000000-N	SP	GUARDRAIL ANCHOR UNITS, TYPE B-77	13 EA		
0130	3360000000-E	863	REMOVE EXISTING GUARDRAIL	14,550 LF		
0131	3365000000-E	863	REMOVE EXISTING GUIDERAIL	15,500 LF		
0132	3389400000-E	865	DOUBLE FACED CABLE GUIDERAIL	18,700 LF		
0133	3389500000-N	865	ADDITIONAL GUIDERAIL POSTS	12 EA		
0134	3389600000-N	865	CABLE GUIDERAIL ANCHOR UNITS	20 EA		
0135	3503000000-E	866	WOVEN WIRE FENCE, 47" FABRIC	25,800 LF		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0136	3509000000-E	866	4" TIMBER FENCE POSTS, 7'-6" LONG	1,600 EA		
0137	3515000000-E	866	5" TIMBER FENCE POSTS, 8'-0" LONG	450 EA		
0138	3628000000-E	876	RIP RAP, CLASS I	1,875 TON		
0139	3635000000-E	876	RIP RAP, CLASS II	70 TON		
0140	3642000000-E	876	RIP RAP, CLASS A	210 TON		
0141	3649000000-E	876	RIP RAP, CLASS B	6,450 TON		
0142	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	23,000 SY		
0143	4048000000-E	902	REINFORCED CONCRETE SIGN FOUNDATIONS	14 CY		
0144	4054000000-E	902	PLAIN CONCRETE SIGN FOUNDATIONS	1 CY		
0145	4057000000-E	SP	OVERHEAD FOOTING	44 CY		
0146	4060000000-E	903	SUPPORTS, BREAKAWAY STEEL BEAM	12,684 LB		
0147	4066000000-E	903	SUPPORTS, SIMPLE STEEL BEAM	2,681 LB		
0148	4072000000-E	903	SUPPORTS, 3-LB STEEL U-CHANNEL	4,172 LF		
0149	4082100000-N	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STA ***** (233+00 -L-)	Lump Sum	L.S.	
0150	4096000000-N	904	SIGN ERECTION, TYPE D	14 EA		
0151	4102000000-N	904	SIGN ERECTION, TYPE E	174 EA		
0152	4108000000-N	904	SIGN ERECTION, TYPE F	28 EA		
0153	4109000000-N	904	SIGN ERECTION, TYPE *** (OVERHEAD) (A)	2 EA		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0154	4109000000-N	904	SIGN ERECTION, TYPE *** (OVER-HEAD) (B)	2 EA		
0155	4110000000-N	904	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (A)	18 EA		
0156	4110000000-N	904	SIGN ERECTION, TYPE *** (GROUND MOUNTED) (B)	12 EA		
0157	4114000000-N	904	SIGN ERECTION, MILEMARKERS	20 EA		
0158	4116100000-N	904	SIGN ERECTION, RELOCATE TYPE **** (GROUND MOUNTED) (D)	7 EA		
0159	4152000000-N	907	DISPOSAL OF SIGN SYSTEM, STEEL BEAM	10 EA		
0160	4155000000-N	907	DISPOSAL OF SIGN SYSTEM, U- CHANNEL	179 EA		
0161	4158000000-N	907	DISPOSAL OF SIGN SYSTEM, WOOD	4 EA		
0162	4192000000-N	907	DISPOSAL OF SUPPORT, U-CHANNEL	7 EA		
0163	4238500000-N	907	DISPOSAL OF SIGN, MILEMARKER	2 EA		
0164	4400000000-E	1110	WORK ZONE SIGNS (STATIONARY)	1,547 SF		
0165	4405000000-E	1110	WORK ZONE SIGNS (PORTABLE)	448 SF		
0166	4410000000-E	1110	WORK ZONE SIGNS (BARRICADE MOUNTED)	152 SF		
0167	4415000000-N	1115	FLASHING ARROW BOARD	2 EA		
0168	4420000000-N	1120	PORTABLE CHANGEABLE MESSAGE SIGN	6 EA		
0169	4423000000-N	SP	WORK ZONE DIGITAL SPEED LIMIT SIGNS	8 EA		
0170	4430000000-N	1130	DRUMS	600 EA		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0171	4434000000-N	SP	SEQUENTIAL FLASHING WARNING LIGHTS	24 EA		
0172	4445000000-E	1145	BARRICADES (TYPE III)	320 LF		
0173	4455000000-N	1150	FLAGGER	500 DAY		
0174	4465000000-N	1160	TEMPORARY CRASH CUSHIONS	19 EA		
0175	4470000000-N	1160	REMOVE & RESET TEMPORARY CRASH CUSHION	12 EA		
0176	4480000000-N	1165	TMA	2 EA		
0177	4485000000-E	1170	PORTABLE CONCRETE BARRIER	47,100 LF		
0178	4500000000-E	1170	REMOVE AND RESET PORTABLE CON- CRETE BARRIER	52,350 LF		
0179	4510000000-N	1190	LAW ENFORCEMENT	64 HR		
0180	4516000000-N	1180	SKINNY DRUM	200 EA		
0181	4650000000-N	1251	TEMPORARY RAISED PAVEMENT MARKERS	3,008 EA		
0182	4685000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	141,550 LF		
0183	4688000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (6", 90 MILS)	136,375 LF		
0184	4695000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	360 LF		
0185	4700000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)	5,900 LF		
0186	4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	54 EA		
0187	4770000000-E	1205	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (IV)	800 LF		
0188	4815000000-E	1205	PAINT PAVEMENT MARKING LINES (6")	125 LF		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0189	4820000000-E	1205	PAINT PAVEMENT MARKING LINES (8")	500 LF		
0190	4835000000-E	1205	PAINT PAVEMENT MARKING LINES (24")	460 LF		
0191	4845000000-N	1205	PAINT PAVEMENT MARKING SYMBOL	101 EA		
0192	4847400000-E	SP	WORK ZONE PERFORMANCE PAVEMENT MARKING LINES, 4"	185,613 LF		
0193	4847500000-E	SP	WORK ZONE PERFORMANCE PAVEMENT MARKING LINES, 6"	259,100 LF		
0194	4847600000-E	SP	WORK ZONE PERFORMANCE PAVEMENT MARKING LINES, 12"	4,900 LF		
0195	4850000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (4")	51,750 LF		
0196	4870000000-E	1205	REMOVAL OF PAVEMENT MARKING LINES (24")	160 LF		
0197	4890000000-E	SP	GENERIC PAVEMENT MARKING ITEM POLYUREA PAVEMENT MARKING LINES, 4", 20 MILS (STANDARD GLASSBEADS)	800 LF		
0198	4891000000-E	1205	GENERIC PAVEMENT MARKING ITEM THERMOPLASTIC PAVEMENT MARKING LINES (24", 90 MILS)	300 LF		
0199	4895000000-N	SP	GENERIC PAVEMENT MARKING ITEM NON-CAST IRON SNOWPLOWABLE PAVEMENT MARKERS	1,090 EA		
0200	4900000000-N	1251	PERMANENT RAISED PAVEMENT MARKERS	4,288 EA		
0201	4940000000-N	1267	FLEXIBLE DELINEATORS (YELLOW)	20 EA		
0202	5325200000-E	1510	2" WATER LINE	875 LF		
0203	5325600000-E	1510	6" WATER LINE	2,498 LF		
0204	5325800000-E	1510	8" WATER LINE	336 LF		
0205	5326200000-E	1510	12" WATER LINE	6,213 LF		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0206	5326600000-E	1510	16" WATER LINE	8,480 LF		
0207	5327400000-E	1510	24" WATER LINE	1,520 LF		
0208	5329000000-E	1510	DUCTILE IRON WATER PIPE FITTINGS	52,270 LB		
0209	5536000000-E	1515	2" VALVE	1 EA		
0210	5540000000-E	1515	6" VALVE	4 EA		
0211	5546000000-E	1515	8" VALVE	2 EA		
0212	5558000000-E	1515	12" VALVE	5 EA		
0213	5558600000-E	1515	16" VALVE	5 EA		
0214	5589200000-E	1515	2" AIR RELEASE VALVE	1 EA		
0215	5648000000-N	1515	RELOCATE WATER METER	3 EA		
0216	5649000000-N	1515	RECONNECT WATER METER	7 EA		
0217	5666000000-N	1515	FIRE HYDRANT	9 EA		
0218	5672000000-N	1515	RELOCATE FIRE HYDRANT	4 EA		
0219	5673000000-E	1515	FIRE HYDRANT LEG	101 LF		
0220	5686500000-E	1515	WATER SERVICE LINE	168 LF		
0221	5691500000-E	1520	12" SANITARY GRAVITY SEWER	412 LF		
0222	5709200000-E	1520	4" FORCE MAIN SEWER	2,358 LF		
0223	5709300000-E	1520	6" FORCE MAIN SEWER	2,061 LF		
0224	5709500000-E	1520	10" FORCE MAIN SEWER	1,247 LF		
0225	5769000000-E	1520	DUCTILE IRON SEWER PIPE FITTINGS	4,170 LB		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0226	5775000000-E	1525	4' DIA UTILITY MANHOLE	3 EA		
0227	5798000000-E	1530	ABANDON *** UTILITY PIPE (2")	999 LF		
0228	5798000000-E	1530	ABANDON *** UTILITY PIPE (4")	2,218 LF		
0229	5800000000-E	1530	ABANDON 6" UTILITY PIPE	4,057 LF		
0230	5801000000-E	1530	ABANDON 8" UTILITY PIPE	199 LF		
0231	5802000000-E	1530	ABANDON 10" UTILITY PIPE	1,279 LF		
0232	5804000000-E	1530	ABANDON 12" UTILITY PIPE	5,550 LF		
0233	5810000000-E	1530	ABANDON 16" UTILITY PIPE	7,813 LF		
0234	5813000000-E	1530	ABANDON 24" UTILITY PIPE	602 LF		
0235	5835000000-E	1540	*** ENCASEMENT PIPE (14")	759 LF		
0236	5835000000-E	1540	*** ENCASEMENT PIPE (26")	488 LF		
0237	5835700000-E	1540	16" ENCASEMENT PIPE	247 LF		
0238	5835900000-E	1540	20" ENCASEMENT PIPE	454 LF		
0239	5836400000-E	1540	36" ENCASEMENT PIPE	239 LF		
0240	5872500000-E	1550	BORE AND JACK OF *** (12")	311 LF		
0241	5872500000-E	1550	BORE AND JACK OF *** (16")	180 LF		
0242	5872500000-E	1550	BORE AND JACK OF *** (24")	199 LF		
0243	5872500000-E	1550	BORE AND JACK OF *** (6")	470 LF		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0244	5872500000-E	1550	BORE AND JACK OF *** (8")	247 LF		
0245	5872600000-E	1550	DIRECTIONAL DRILLING OF *** (18")	300 LF		
0246	6000000000-E	1605	TEMPORARY SILT FENCE	111,625 LF		
0247	6006000000-E	1610	STONE FOR EROSION CONTROL, CLASS A	2,000 TON		
0248	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	12,105 TON		
0249	6012000000-E	1610	SEDIMENT CONTROL STONE	8,465 TON		
0250	6015000000-E	1615	TEMPORARY MULCHING	318 ACR		
0251	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	12,300 LB		
0252	6021000000-E	1620	FERTILIZER FOR TEMPORARY SEED- ING	63.5 TON		
0253	6024000000-E	1622	TEMPORARY SLOPE DRAINS	4,575 LF		
0254	6029000000-E	SP	SAFETY FENCE	13,500 LF		
0255	6030000000-E	1630	SILT EXCAVATION	73,300 CY		
0256	6036000000-E	1631	MATTING FOR EROSION CONTROL	100,000 SY		
0257	6037000000-E	SP	COIR FIBER MAT	1,915 SY		
0258	6038000000-E	SP	PERMANENT SOIL REINFORCEMENT MAT	3,500 SY		
0259	6042000000-E	1632	1/4" HARDWARE CLOTH	14,800 LF		
0260	6043000000-E	SP	LOW PERMEABILITY GEOTEXTILE	1,600 SY		
0261	6070000000-N	1639	SPECIAL STILLING BASINS	12 EA		
0262	6071012000-E	SP	COIR FIBER WATTLE	11,200 LF		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0263	6071020000-E	SP	POLYACRYLAMIDE (PAM)	11,400 LB		
0264	6071030000-E	1640	COIR FIBER BAFFLE	21,000 LF		
0265	6071050000-E	SP	*** SKIMMER (1-1/2")	77 EA		
0266	6071050000-E	SP	*** SKIMMER (2")	5 EA		
0267	6071050000-E	SP	*** SKIMMER (2-1/2")	3 EA		
0268	6084000000-E	1660	SEEDING & MULCHING	189 ACR		
0269	6087000000-E	1660	MOWING	216 ACR		
0270	6090000000-E	1661	SEED FOR REPAIR SEEDING	3,250 LB		
0271	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	9.25 TON		
0272	6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	4,575 LB		
0273	6108000000-E	1665	FERTILIZER TOPDRESSING	137 TON		
0274	6111000000-E	SP	IMPERVIOUS DIKE	1,000 LF		
0275	6114500000-N	1667	SPECIALIZED HAND MOWING	10 MHR		
0276	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	150 EA		
0277	6117500000-N	SP	CONCRETE WASHOUT STRUCTURE	12 EA		
0278	6120000000-E	SP	CULVERT DIVERSION CHANNEL	534 CY		
0279	6123000000-E	1670	REFORESTATION	1 ACR		
0280	6126000000-E	SP	STREAMBANK REFORESTATION	2.15 ACR		
0281	7060000000-E	1705	SIGNAL CABLE	14,100 LF		
0282	7108000000-E	1705	VEHICLE SIGNAL HEAD (12", 1 SECTION)	8 EA		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0283	7120000000-E	1705	VEHICLE SIGNAL HEAD (12", 3 SECTION)	19	EA	
0284	7144000000-E	1705	VEHICLE SIGNAL HEAD (12", 5 SECTION)	1	EA	
0285	7264000000-E	1710	MESSENGER CABLE (3/8")	1,175	LF	
0286	7300000000-E	1715	UNPAVED TRENCHING (***** (1. 2")	550	LF	
0287	7300100000-E	1715	UNPAVED TRENCHING FOR TEMP- ORARY LEAD-IN	5,200	LF	
0288	7301000000-E	1715	DIRECTIONAL DRILL (***** (1. 2")	550	LF	
0289	7324000000-N	1716	JUNCTION BOX (STANDARD SIZE)	16	EA	
0290	7360000000-N	1720	WOOD POLE	9	EA	
0291	7372000000-N	1721	GUY ASSEMBLY	14	EA	
0292	7384000000-E	1722	***" RISER WITH ***** (1-1/2", WEATHERHEAD)	3	EA	
0293	7408000000-E	1722	1" RISER WITH WEATHERHEAD	2	EA	
0294	7420000000-E	1722	2" RISER WITH WEATHERHEAD	9	EA	
0295	7444000000-E	1725	INDUCTIVE LOOP SAWCUT	1,900	LF	
0296	7456000000-E	1726	LEAD-IN CABLE (***** (14-2)	14,100	LF	
0297	7636000000-N	1745	SIGN FOR SIGNALS	4	EA	
0298	7642300000-N	1743	TYPE III PEDESTAL WITH FOUND- ATION	4	EA	
0299	7696000000-N	1751	CONTROLLERS WITH CABINET (***** (TYPE 2070E, POLE MOUNTED)	2	EA	
0300	7744000000-N	1751	DETECTOR CARD (TYPE 170)	14	EA	

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0301	7980000000-N	SP	GENERIC SIGNAL ITEM 5/8"X10' GROUNDING ELECTRODES	30 EA		
0302	7980000000-N	SP	GENERIC SIGNAL ITEM CCTV CAMERA LOWERING SYSTEM	1 EA		
0303	7980000000-N	SP	GENERIC SIGNAL ITEM CCTV EXTENSION POLE	1 EA		
0304	7980000000-N	SP	GENERIC SIGNAL ITEM CCTV METAL POLE (60')	1 EA		
0305	7980000000-N	SP	GENERIC SIGNAL ITEM CCTV WOOD POLE	1 EA		
0306	7980000000-N	SP	GENERIC SIGNAL ITEM DIGITAL CCTV CAMERA ASSEMBLY	3 EA		
0307	7980000000-N	SP	GENERIC SIGNAL ITEM DMS ACCESS LADDER	2 EA		
0308	7980000000-N	SP	GENERIC SIGNAL ITEM DMS PEDESTAL STRUCTURE	2 EA		
0309	7980000000-N	SP	GENERIC SIGNAL ITEM DYNAMIC MESSAGE SIGN (TYPE 2C)	2 EA		
0310	7980000000-N	SP	GENERIC SIGNAL ITEM EQUIPMENT CABINET DISCONNECT	4 EA		
0311	7980000000-N	SP	GENERIC SIGNAL ITEM FIELD EQUIPMENT CABINET	2 EA		
0312	7980000000-N	SP	GENERIC SIGNAL ITEM METER BASE/DISCONNECT COMBINA- TION PANEL	4 EA		
0313	7980000000-N	SP	GENERIC SIGNAL ITEM SOIL TEST	1 EA		
0314	7980000000-N	SP	GENERIC SIGNAL ITEM VARIABLE SPEED DRILL	1 EA		
0315	7990000000-E	SP	GENERIC SIGNAL ITEM #4 SOLID BARE COPPER GROUNDING CONDUCTOR	300 LF		
0316	7990000000-E	SP	GENERIC SIGNAL ITEM 3-WIRE COPPER FEEDER CONDUCTORS	500 LF		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0317	7990000000-E	SP	GENERIC SIGNAL ITEM 3-WIRE COPPER SERVICE ENTRANCE CONDUCTORS	90 LF		
0318	7990000000-E	SP	GENERIC SIGNAL ITEM 4-WIRE COPPER FEEDER CONDUCTORS	400 LF		
0319	7992000000-E	SP	GENERIC SIGNAL ITEM DRILLED PIER FOUNDATION	6 CY		
0320	7992000000-E	SP	GENERIC SIGNAL ITEM OVERHEAD FOOTINGS	16 CY		
0360	1308000000-E	607	MILLING ASPHALT PAVEMENT, **** TO ***** (2-1/2" TO 4")	24,800 SY		
0361	1524200000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5D	43,600 TON		
0362	1577000000-E	620	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX	2,490 TON		
CULVERT ITEMS						
0321	8056000000-N	402	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (28+84.00 -Y7-)	Lump Sum	L.S.	
0322	8065000000-N	SP	ASBESTOS ASSESSMENT	Lump Sum	L.S.	
0323	8126000000-N	414	CULVERT EXCAVATION, STA ***** (155+30.40 -L-)	Lump Sum	L.S.	
0324	8126000000-N	414	CULVERT EXCAVATION, STA ***** (28+84.00 -Y7-)	Lump Sum	L.S.	
0325	8126000000-N	414	CULVERT EXCAVATION, STA ***** (45+66.22 -L-)	Lump Sum	L.S.	
0326	8133000000-E	414	FOUNDATION CONDITIONING MATERIAL, BOX CULVERT	486 TON		
0327	8196000000-E	420	CLASS A CONCRETE (CULVERT)	858.7 CY		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0328	824500000-E	425	REINFORCING STEEL (CULVERT)	100,414 LB		
WALL ITEMS						
0329	880100000-E	SP	MSE RETAINING WALL NO **** (1)	19,233 SF		
0330	880100000-E	SP	MSE RETAINING WALL NO **** (2)	21,981 SF		
STRUCTURE ITEMS						
0331	809600000-E	450	PILE EXCAVATION IN SOIL	201 LF		
0332	809700000-E	450	PILE EXCAVATION NOT IN SOIL	31 LF		
0333	810554000-E	411	3'-6" DIA DRILLED PIERS IN SOIL	45 LF		
0334	810564000-E	411	3'-6" DIA DRILLED PIERS NOT IN SOIL	51 LF		
0335	811273000-N	450	PDA TESTING	1 EA		
0336	811300000-N	411	SID INSPECTIONS	1 EA		
0337	811400000-N	411	SPT TESTING	1 EA		
0338	811500000-N	411	CSL TESTING	1 EA		
0339	814700000-E	420	REINFORCED CONCRETE DECK SLAB	19,907 SF		
0340	816100000-E	420	GROOVING BRIDGE FLOORS	22,886 SF		
0341	818200000-E	420	CLASS A CONCRETE (BRIDGE)	300.7 CY		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0342	821000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (217+31.76 -L-) LT	Lump Sum	L.S.	
0343	821000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (217+31.76 -L-) RT	Lump Sum	L.S.	
0344	821000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (27+01.91 -Y7-)	Lump Sum	L.S.	
0345	821700000-E	425	REINFORCING STEEL (BRIDGE)	45,564 LB		
0346	823800000-E	425	SPIRAL COLUMN REINFORCING STEEL (BRIDGE)	2,958 LB		
0347	826500000-E	430	54" PRESTRESSED CONCRETE GIR- DERS	2,084.01 LF		
0348	832800000-E	450	PILE DRIVING EQUIPMENT SETUP FOR *** PRESTRESSED CONCRETE PILES (HP 12 X 53)	40 EA		
0349	832820000-E	450	PILE DRIVING EQUIPMENT SETUP FOR *** STEEL PILES (HP 12 X 53)	11 EA		
0350	832820000-E	450	PILE DRIVING EQUIPMENT SETUP FOR *** STEEL PILES (HP 14 X 73)	11 EA		
0351	836400000-E	450	HP12X53 STEEL PILES	2,882 LF		
0352	838400000-E	450	HP14X73 STEEL PILES	632 LF		
0353	839100000-N	450	STEEL PILE POINTS	11 EA		
0354	847500000-E	460	TWO BAR METAL RAIL	369.44 LF		
0355	850300000-E	460	CONCRETE BARRIER RAIL	480.89 LF		
0356	851700000-E	460	1'-**"X ***** CONCRETE PARA- PET (1'-2" X 3'-3")	385.55 LF		
0357	853100000-E	462	4" SLOPE PROTECTION	760 SY		

County : Johnston

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0358	8657000000-N	430	ELASTOMERIC BEARINGS	Lump Sum	L.S.	
0359	8692000000-N	SP	FOAM JOINT SEALS	Lump Sum	L.S.	
1535/Feb26/Q3504851.11/D1562537022000/E361			Total Amount Of Bid For Entire Project :			

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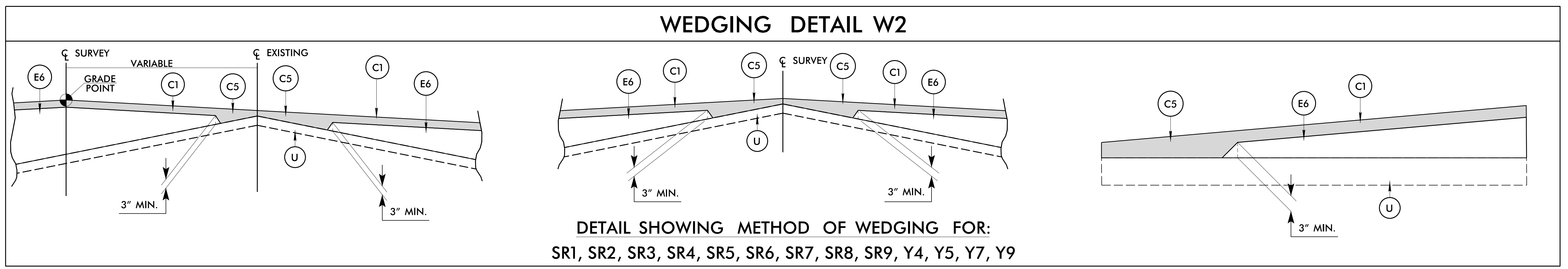
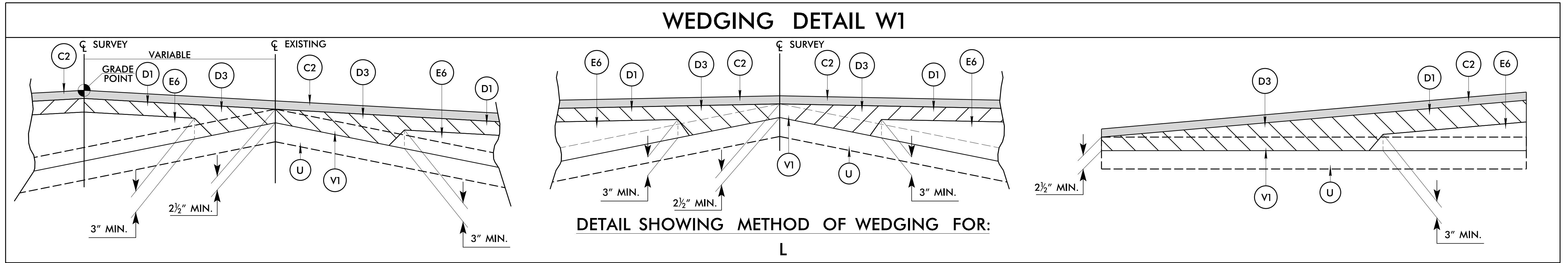
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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

PROJECT REFERENCE NO. W-5600	SHEET NO. 2A-1
ROADWAY DESIGN ENGINEER 2/22/2021 	PAVEMENT DESIGN ENGINEER 2/22/2021

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

PAVEMENT SCHEDULE					
FINAL PAVEMENT DESIGN					
C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.	E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	R3	DOUBLE FACE CONCRETE BARRIER
C2	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.	E2	PROP. APPROX. 4½" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD.	S	4" CONCRETE SIDEWALK.
C3	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	E3	PROP. APPROX. 5½" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.	T	EARTH MATERIAL.
C4	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5D, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	E4	PROP. APPROX. 7" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, TO BE PLACED IN TWO LAYERS: -FIRST LAYER 4" AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. -SECOND LAYER 3" AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.	U	EXISTING PAVEMENT.
C5	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 1½" IN DEPTH	E5	PROP. APPROX. 8" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	V1	MILLING ASPHALT PAVEMENT, 2½" DEPTH.
C6	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5D, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.	E6	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5½" IN DEPTH.	V2	VARIABLE MILLING ASPHALT PAVEMENT, 2½" TO 4" DEPTH.
D1	PROP. APPROX. 2½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.	J1	PROP. 8" AGGREGATE BASE COURSE.	W1	WEDGING (VARIABLE DEPTH ASPHALT PAVEMENT, SEE DETAIL ON THIS SHEET)
D2	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	R1	2'-6" CONCRETE CURB AND GUTTER.	W2	WEDGING (VARIABLE DEPTH ASPHALT PAVEMENT, SEE DETAIL ON THIS SHEET)
D3	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2½" IN DEPTH OR GREATER THAN 4" IN DEPTH.	R2	5" MONOLITHIC CONCRETE ISLAND (SURFACE MOUNTED)	Y	MILLED RUMBLE STRIPS



6/22/99

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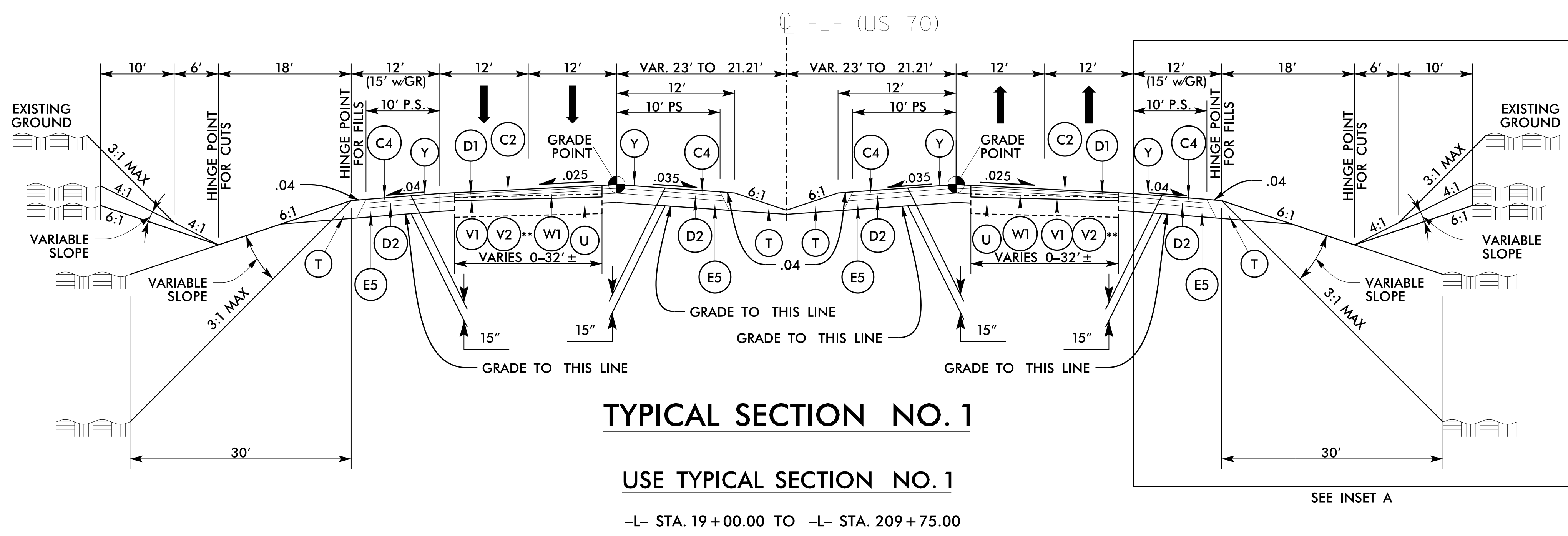
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
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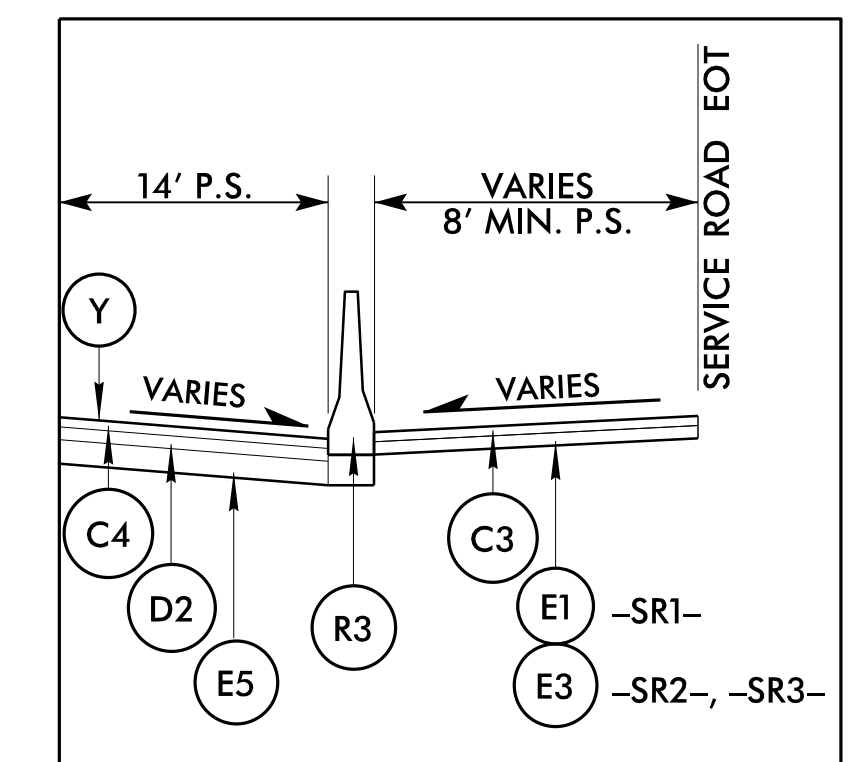
PROJECT REFERENCE NO. **W-5600**
 ROADWAY DESIGN ENGINEER
 2/22/2023

SHEET NO. **2A-2**
 PAVEMENT DESIGN ENGINEER
 2/22/2023

Seal: J. Jonathan C. Pfeiffer, Professional Engineer, No. 35016
 Seal: Andrew P. Sharp, Professional Engineer, No. 44590

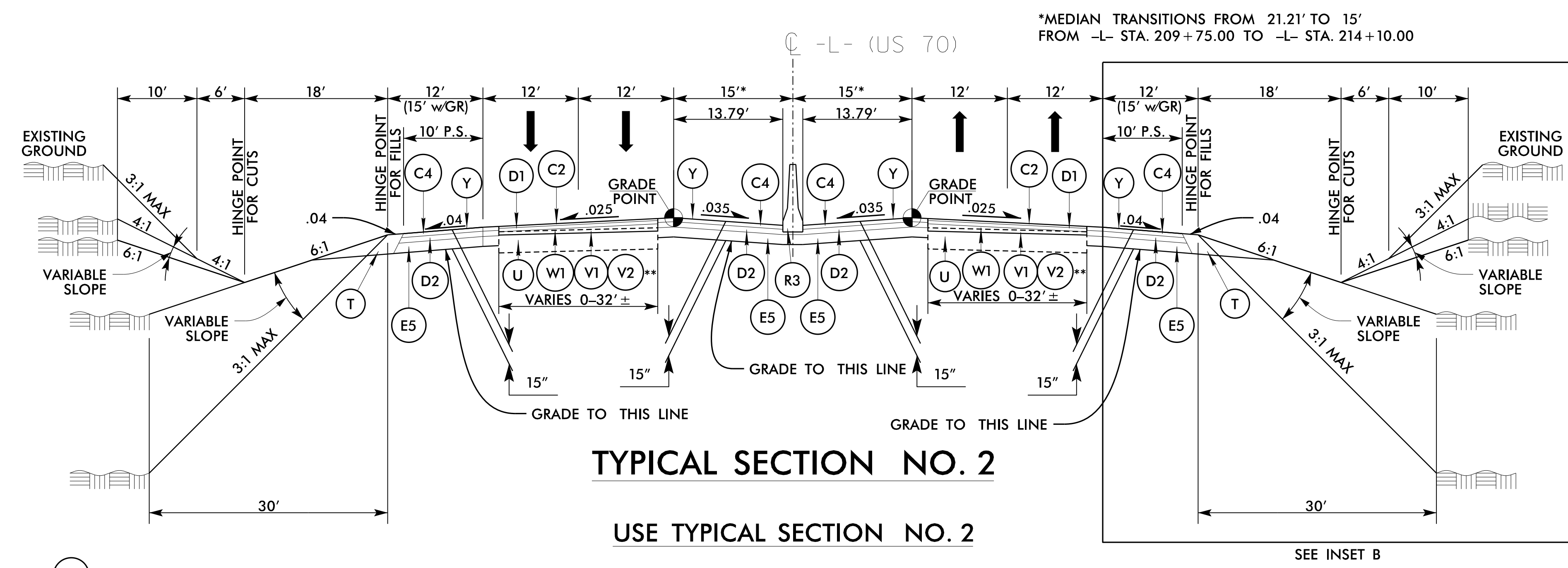


** USE (V2) IN THE FOLLOWING LOCATIONS:
 -L- 19+00.00 TO 22+00.00 LT & RT

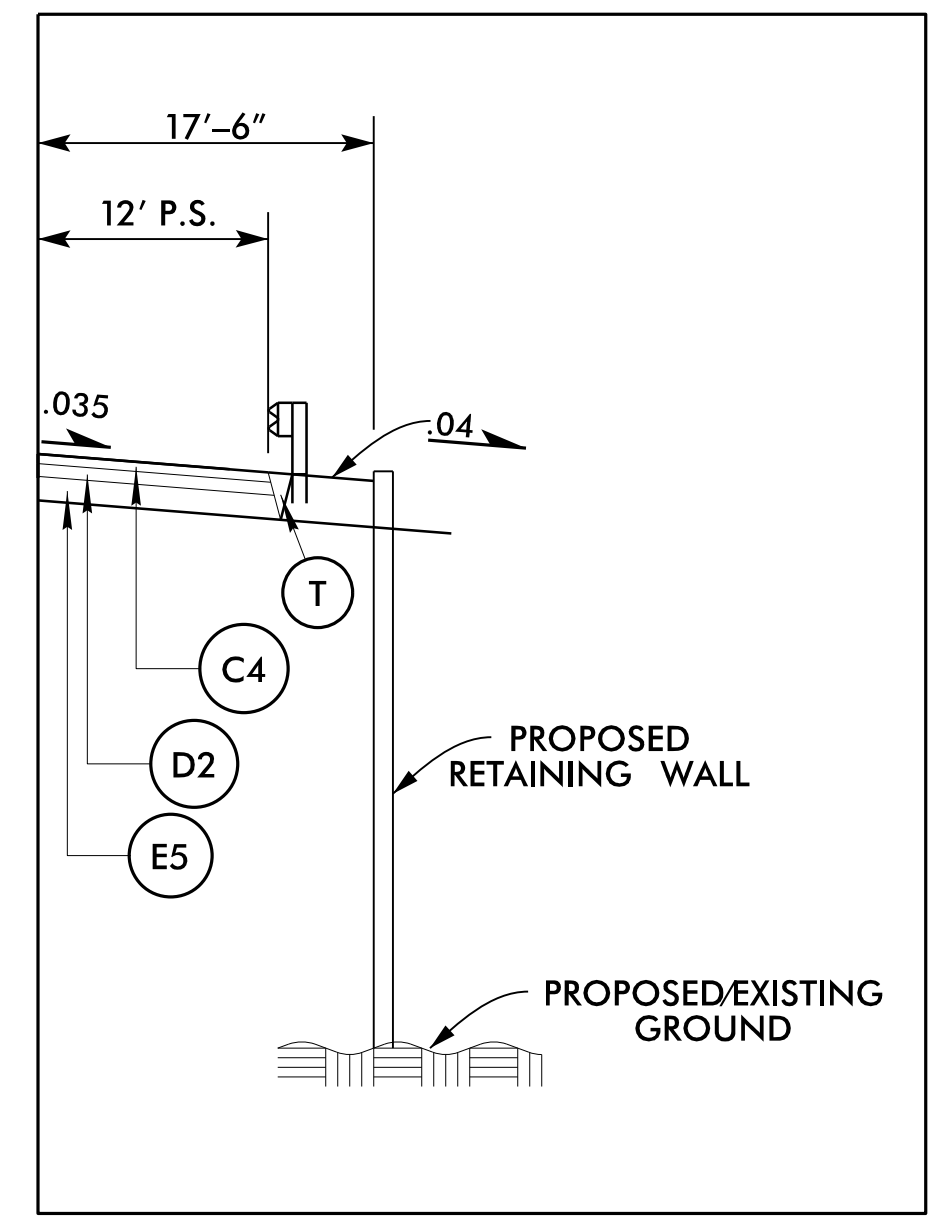


PAVEMENT SCHEDULE
 FINAL PAVEMENT DESIGN

C1	1 1/2" S9.5B
C2	1 1/2" S9.5D
C3	3" S9.5B
C4	3" S9.5D
C5	VAR. S9.5B
C6	VAR. S9.5D
D1	2 1/2" I19.0C
D2	4" I19.0C
D3	VAR. I19.0C
E1	4" B25.0C
E2	4 1/2" B25.0C
E3	5 1/2" B25.0C
E4	7" B25.0C
E5	8" B25.0C
E6	VAR. B25.0C
J1	8" ABC
R1	2'-6" C & G
R2	5" MCI
R3	DOUBLE FACE CONC. BARRIER
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	2 1/2" MILLING
V2	2 1/2" TO 4" VAR. MILLING
W1	WEDGING
W2	WEDGING
Y	MILLED RUMBLE STRIPS



** USE (V2) IN THE FOLLOWING LOCATIONS:
 -L- 244+50.00 TO 281+85.00 LT
 -L- 253+50.00 TO 255+50.00 RT
 -L- 274+50.00 TO 281+85.00 RT



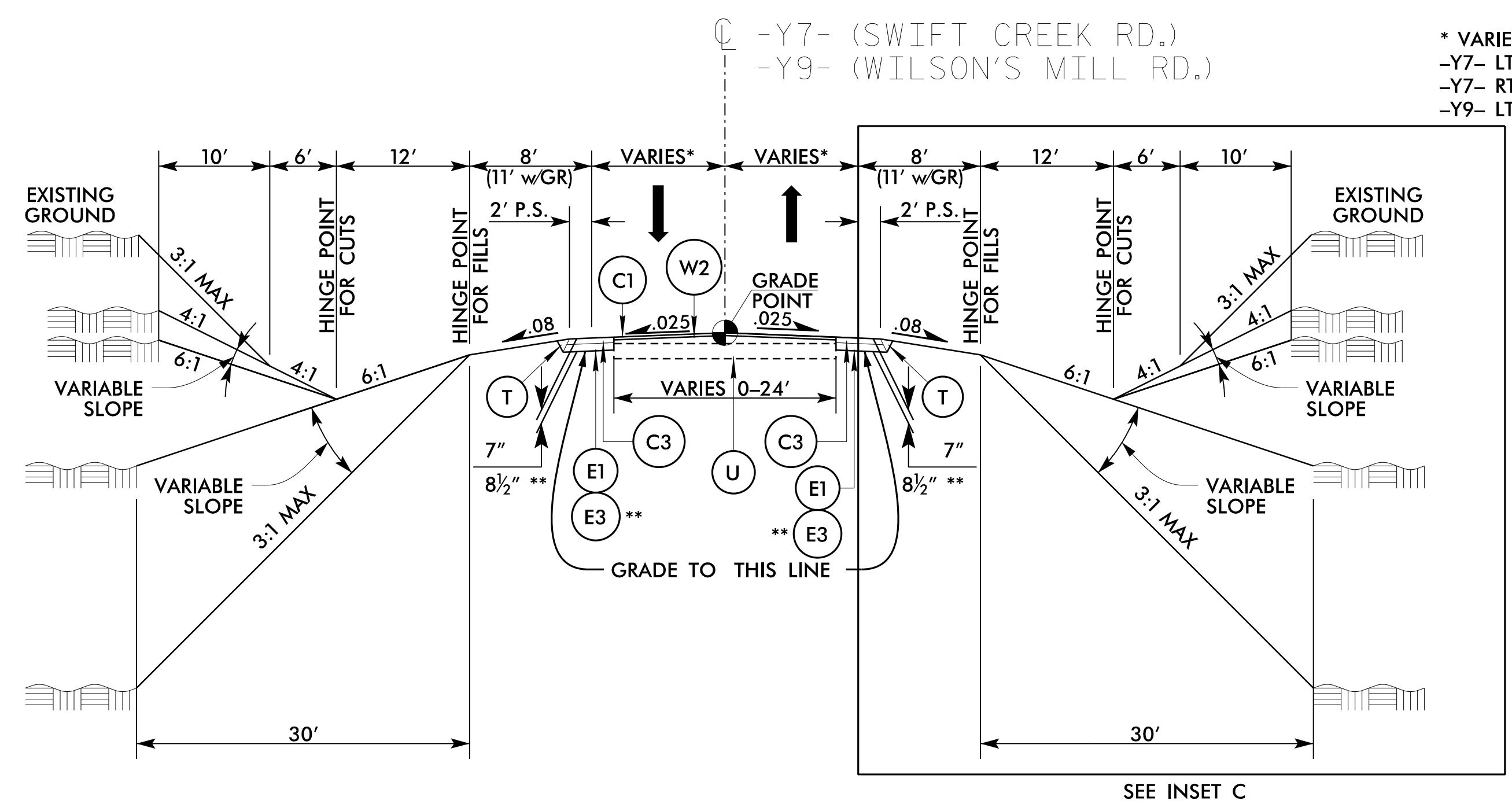
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WETHERILL ENGINEERING
 1223 Jones Franklin Rd.
 Raleigh, N.C. 27606
 License No. F-0377
 Bus: 919 851 8077
 Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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

PROJECT REFERENCE NO. W-5600	SHEET NO. 2A-3
ROADWAY DESIGN ENGINEER 2/23/2021 	PAVEMENT DESIGN ENGINEER 2/23/2021

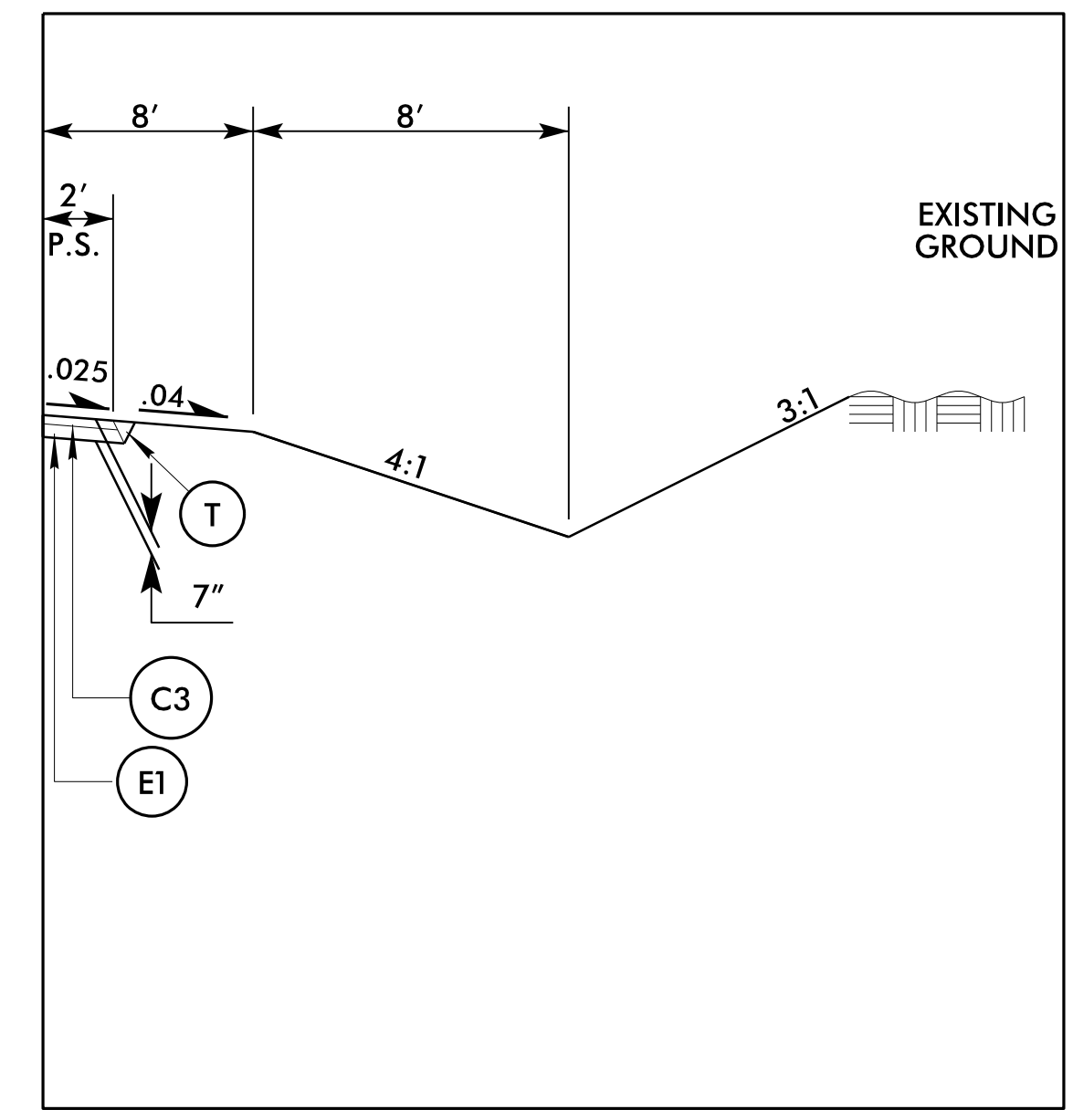


TYPICAL SECTION NO. 3

USE TYPICAL SECTION NO. 3

-Y7- STA. 14+20.00 TO -Y7- STA. 26+04.66 (BEGIN BRIDGE)
 -Y7- STA. 27+99.16 (END BRIDGE) TO -Y7- STA. 39+00.00
 **_Y9- STA. 14+90.00 TO -Y9- STA. 19+31.79
 **_Y9- STA. 22+58.24 TO -Y9- STA. 28+00.00

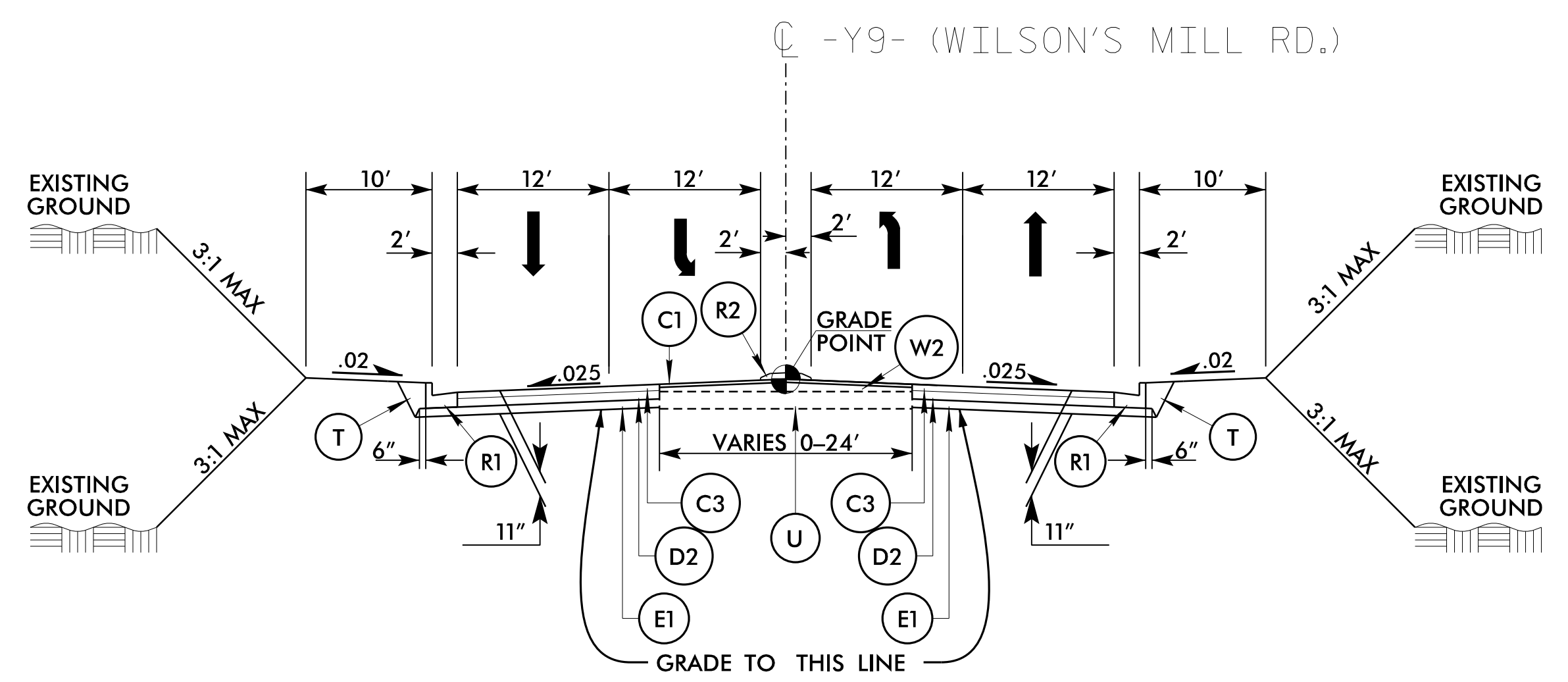
* VARIES AS FOLLOWS:
 -Y7- LT VARIES FROM 12' TO 20'
 -Y7- RT VARIES FROM 12' TO 32'
 -Y9- LT & RT VARIES FROM 12' TO 38'



INSET C

USE INSET C IN CONJUNCTION WITH TYPICAL SECTION NO. 3

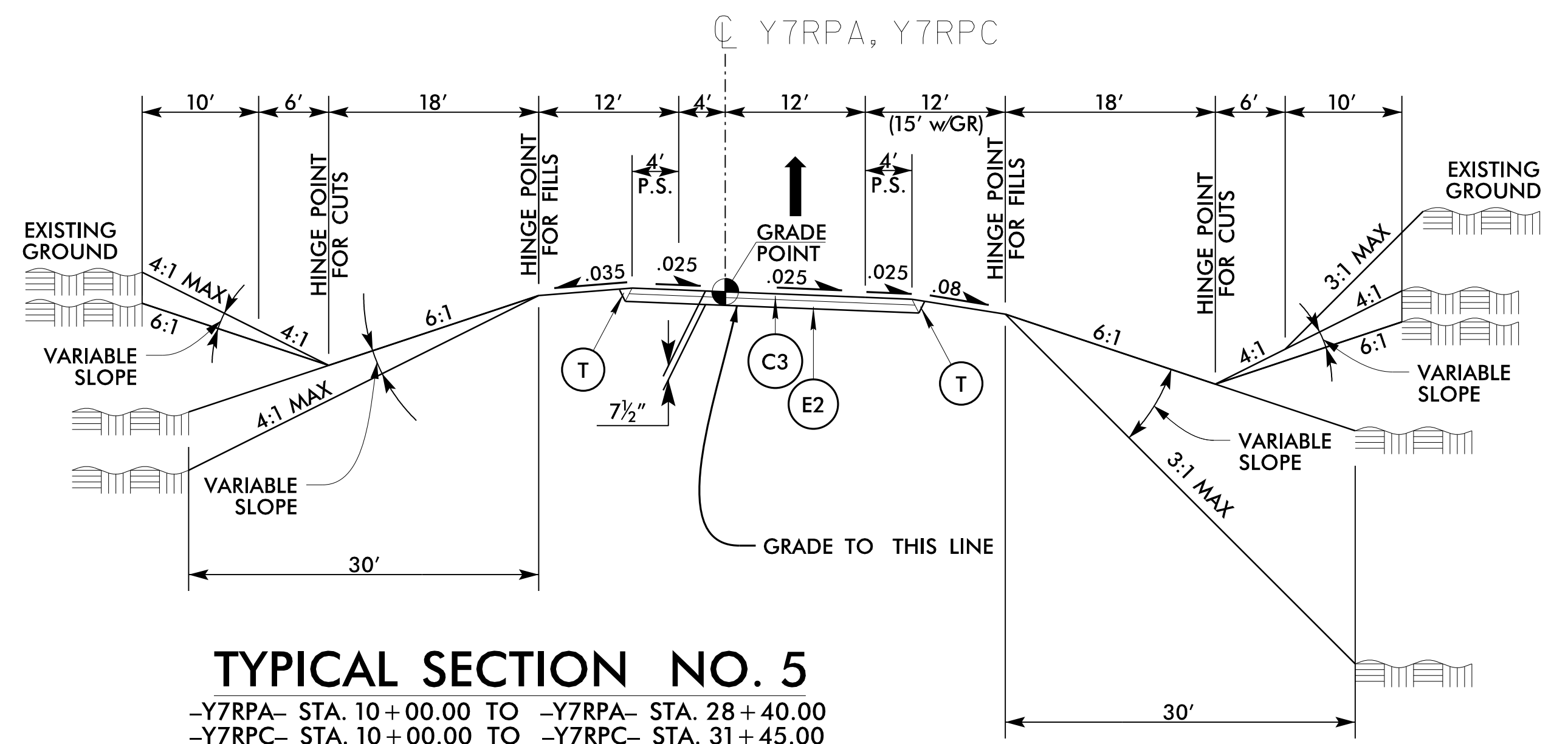
-Y7- STA. 14+20.00 TO -Y7- STA. 19+50.00 RT SIDE ONLY



TYPICAL SECTION NO. 4

USE TYPICAL SECTION NO. 4

-Y9- STA. 19+31.79 TO -Y9- STA. 22+58.24



TYPICAL SECTION NO. 5

-Y7RPA- STA. 10+00.00 TO -Y7RPA- STA. 28+40.00
 -Y7RPC- STA. 10+00.00 TO -Y7RPC- STA. 31+45.00

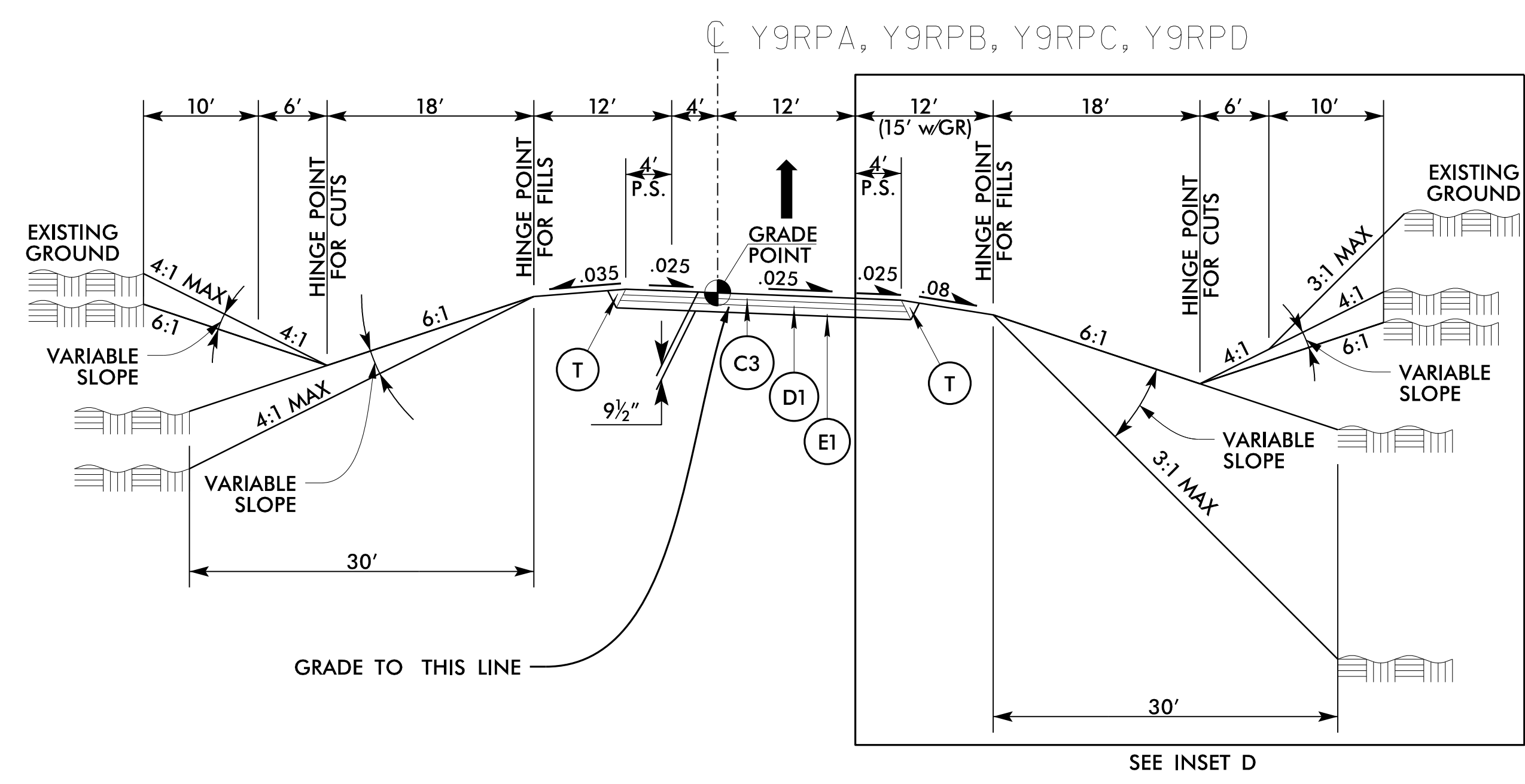
PAVEMENT SCHEDULE	
FINAL PAVEMENT DESIGN	
C1	1 1/2" S9.5B
C2	1 1/2" S9.5D
C3	3" S9.5B
C4	3" S9.5D
C5	VAR. S9.5B
C6	VAR. S9.5D
D1	2 1/2" I19.0C
D2	4" I19.0C
D3	VAR. I19.0C
E1	4" B25.0C
E2	4 1/2" B25.0C
E3	5 1/2" B25.0C
E4	7" B25.0C
E5	8" B25.0C
E6	VAR. B25.0C
J1	8" ABC
R1	2'-6" C & G
R2	5" MCI
R3	DOUBLE FACE CONC. BARRIER
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	2 1/2" MILLING
V2	2 1/2" TO 4" VAR. MILLING
W1	WEDGING
W2	WEDGING
Y	MILLED RUMBLE STRIPS

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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
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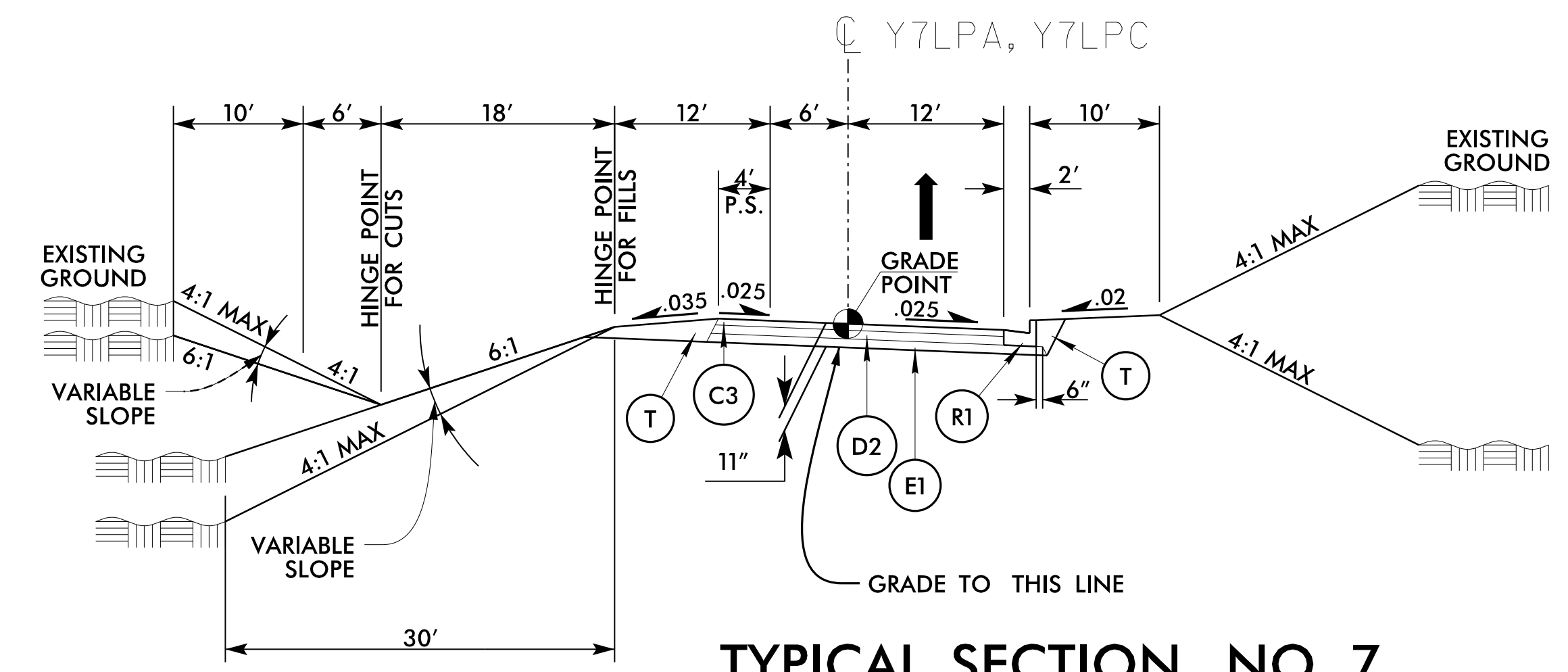
PROJECT REFERENCE NO. W-5600	SHEET NO. 2A-4
ROADWAY DESIGN ENGINEER 2/23/2023 <i>Jonathan C. Peffer</i>	PAVEMENT DESIGN ENGINEER 2/23/2023 <i>Andrew D. Wynn</i>



TYPICAL SECTION NO. 6

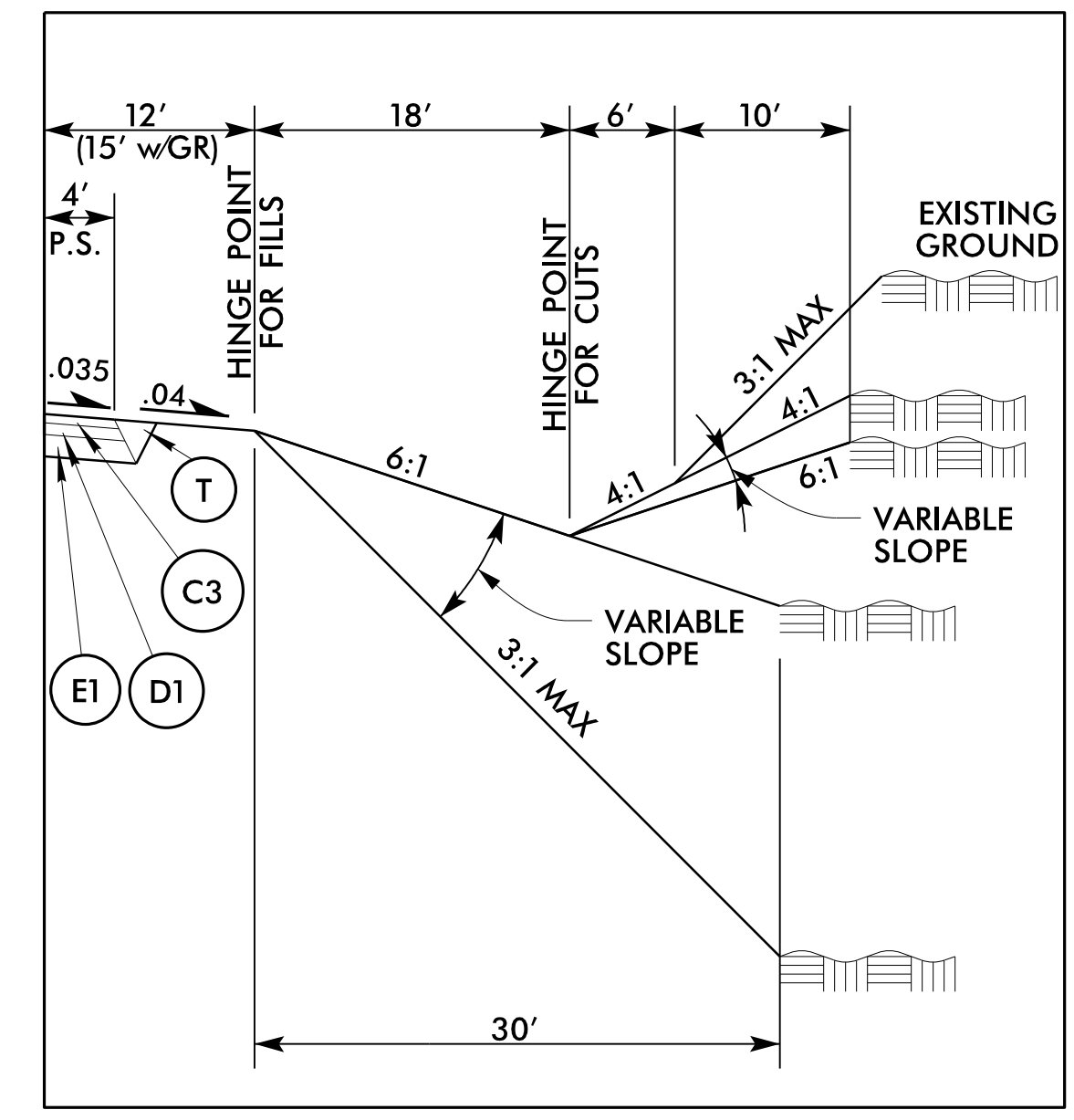
USE TYPICAL SECTION NO. 6

- Y9RPA- STA. 10+00.00 TO -Y9RPA- STA. 26+20.00
- Y9RPB- STA. 10+00.00 TO -Y9RPB- STA. 24+60.00 (REVERSE TYPICAL)
- Y9RPC- STA. 10+00.00 TO -Y9RPC- STA. 25+40.00
- Y9RPD- STA. 10+00.00 TO -Y9RPD- STA. 24+10.00 (REVERSE TYPICAL)



TYPICAL SECTION NO. 7
 USE TYPICAL SECTION NO. 7

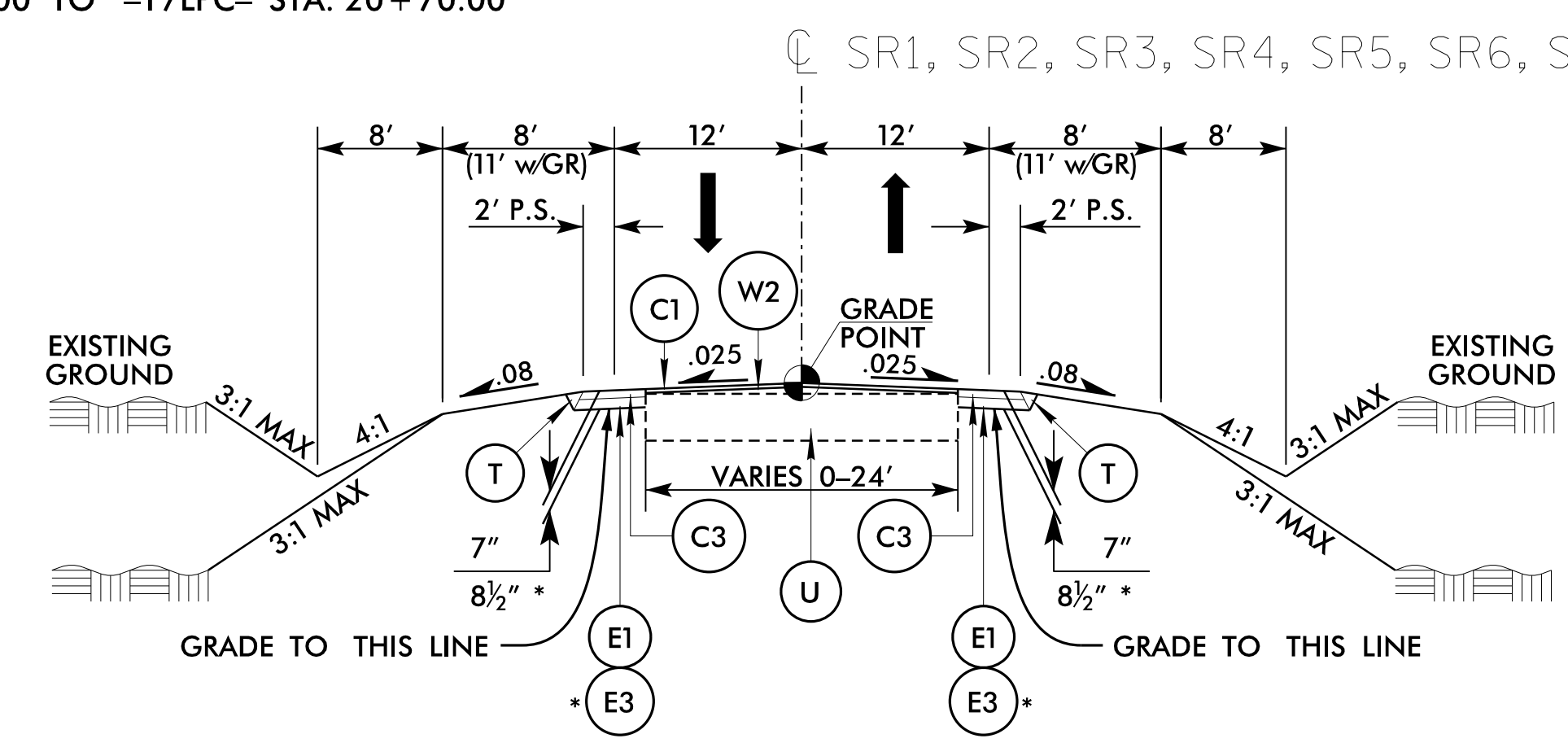
- Y7LPA- STA. 10+00.00 TO -Y7LPA- STA. 20+65.00
- Y7LPC- STA. 10+00.00 TO -Y7LPC- STA. 20+70.00



INSET D

USE INSET D IN CONJUNCTION WITH TYPICAL SECTION NO. 6

- Y9RPB- STA. 10+00.00 TO -Y9RPB- STA. 24+25.00 LT SIDE ONLY



TYPICAL SECTION NO. 8

USE TYPICAL SECTION NO. 8

- SR1- STA. 10+00.00 TO -SR1- STA. 67+00.00
- *-SR2- STA. 16+80.00 TO -SR2- STA. 97+69.34
- *-SR3- STA. 9+78.80 TO -SR3- STA. 64+00.00
- SR4- STA. 10+26.50 TO -SR4- STA. 18+00.00
- SR5- STA. 10+34.57 TO -SR5- STA. 15+75.00
- *-SR6- STA. 10+16.13 TO -SR6- STA. 49+40.00
- SR7- STA. 12+00.00 TO -SR7- STA. 74+60.00
- SR8- STA. 10+21.00 TO -SR8- STA. 12+30.00
- SR9- STA. 10+50.00 TO -SR9- STA. 12+80.00
- Y4- STA. 10+75.00 TO -Y4- STA. 14+03.43
- Y5- STA. 16+73.40 TO -Y5- STA. 18+20.00

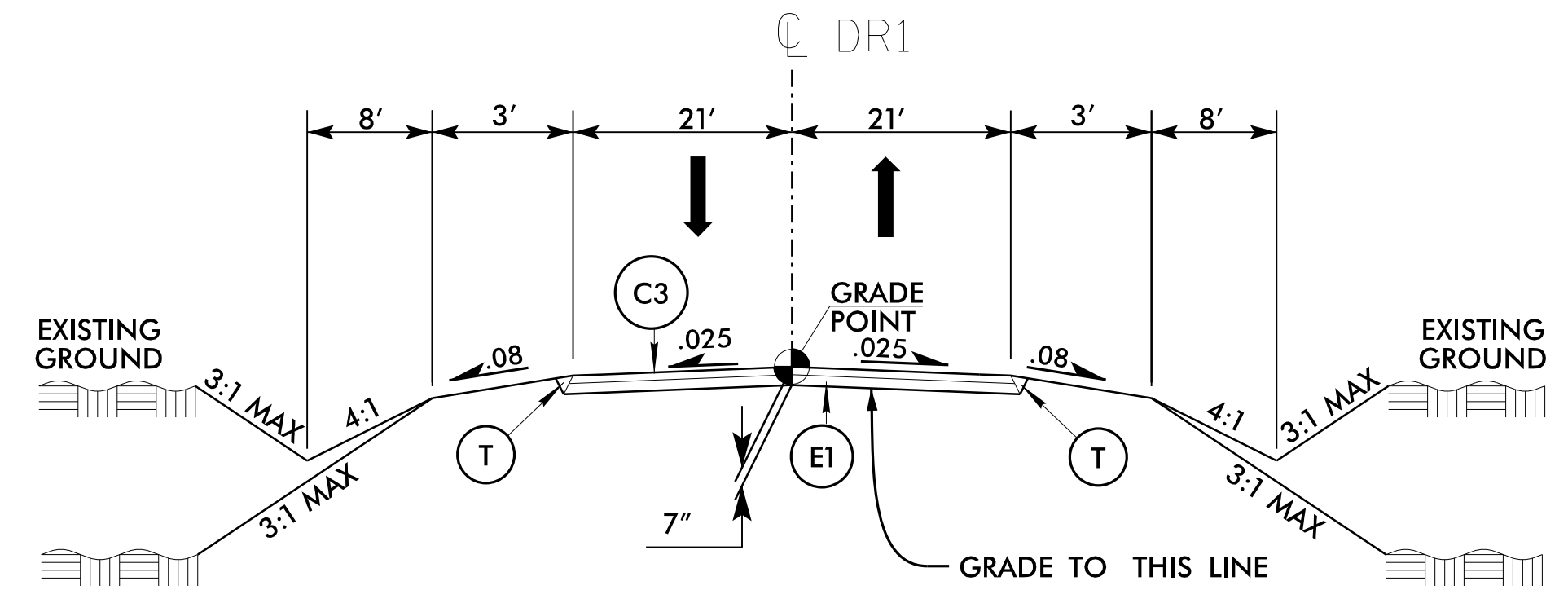
PAVEMENT SCHEDULE	
ITEM	DESCRIPTION
C1	1 1/2" S9.5B
C2	1 1/2" S9.5D
C3	3" S9.5B
C4	3" S9.5D
C5	VAR. S9.5B
C6	VAR. S9.5D
D1	2 1/2" I19.0C
D2	4" I19.0C
D3	VAR. I19.0C
E1	4" B25.0C
E2	4 1/2" B25.0C
E3	5 1/2" B25.0C
E4	7" B25.0C
E5	8" B25.0C
E6	VAR. B25.0C
J1	8" ABC
R1	2'-6" C & G
R2	5" MCI
R3	DOUBLE FACE CONC. BARRIER
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	2 1/2" MILLING
V2	2 1/2" TO 4" VAR. MILLING
W1	WEDGING
W2	WEDGING
Y	MILLED RUMBLE STRIPS

WETHERILL ENGINEERING
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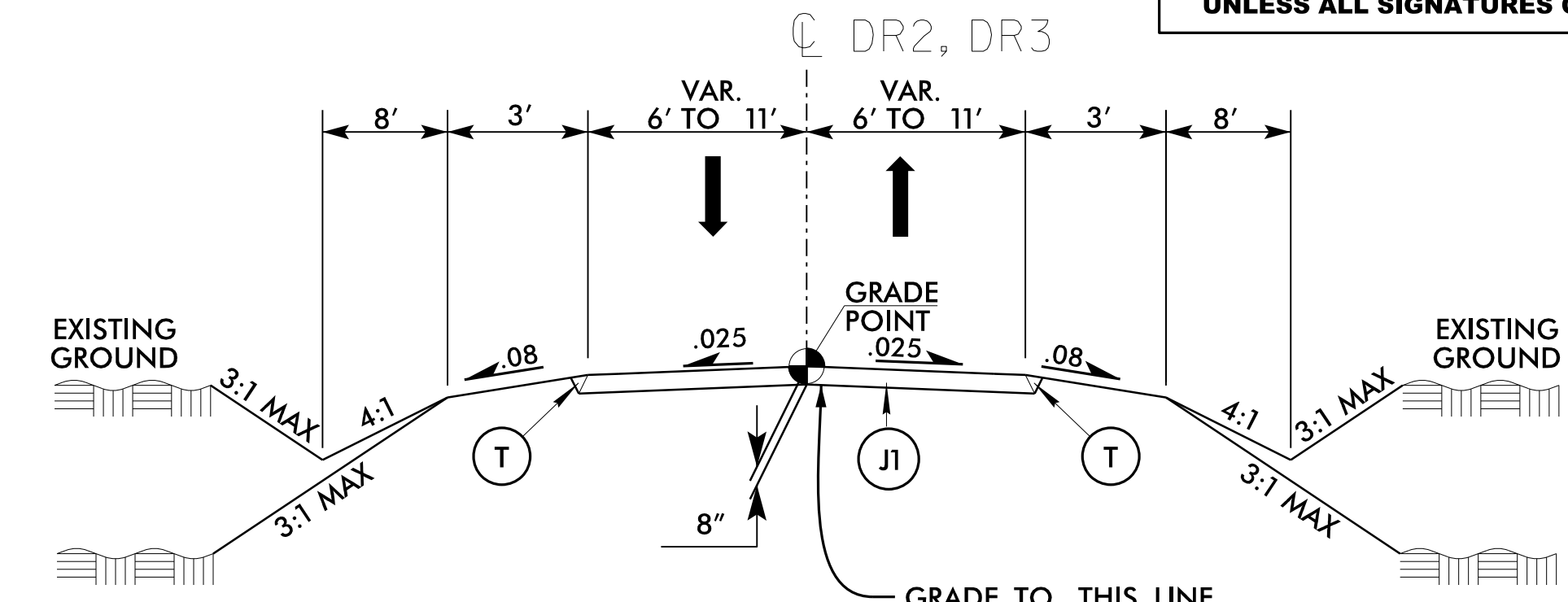
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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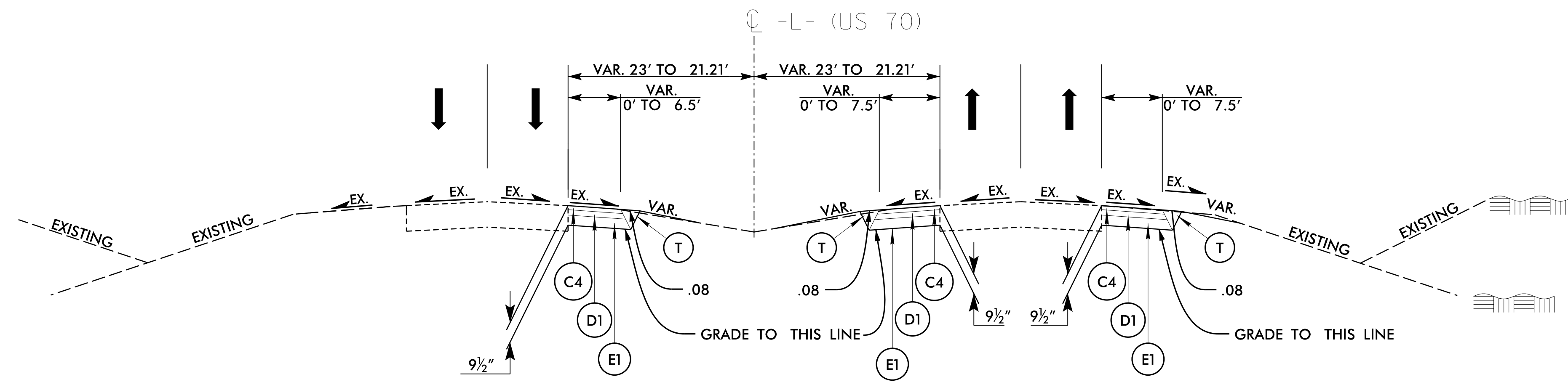
PROJECT REFERENCE NO. W-5600	SHEET NO. 2A-5
ROADWAY DESIGN ENGINEER 2/22/2021 <i>Jonathan C. Peffer</i>	PAVEMENT DESIGN ENGINEER 2/22/2021 <i>Andrew D. Wray</i>



TYPICAL SECTION NO. 9
 USE TYPICAL SECTION NO. 9
 -DR1- STA. 10+12.00 TO -DR1- STA. 11+40.00



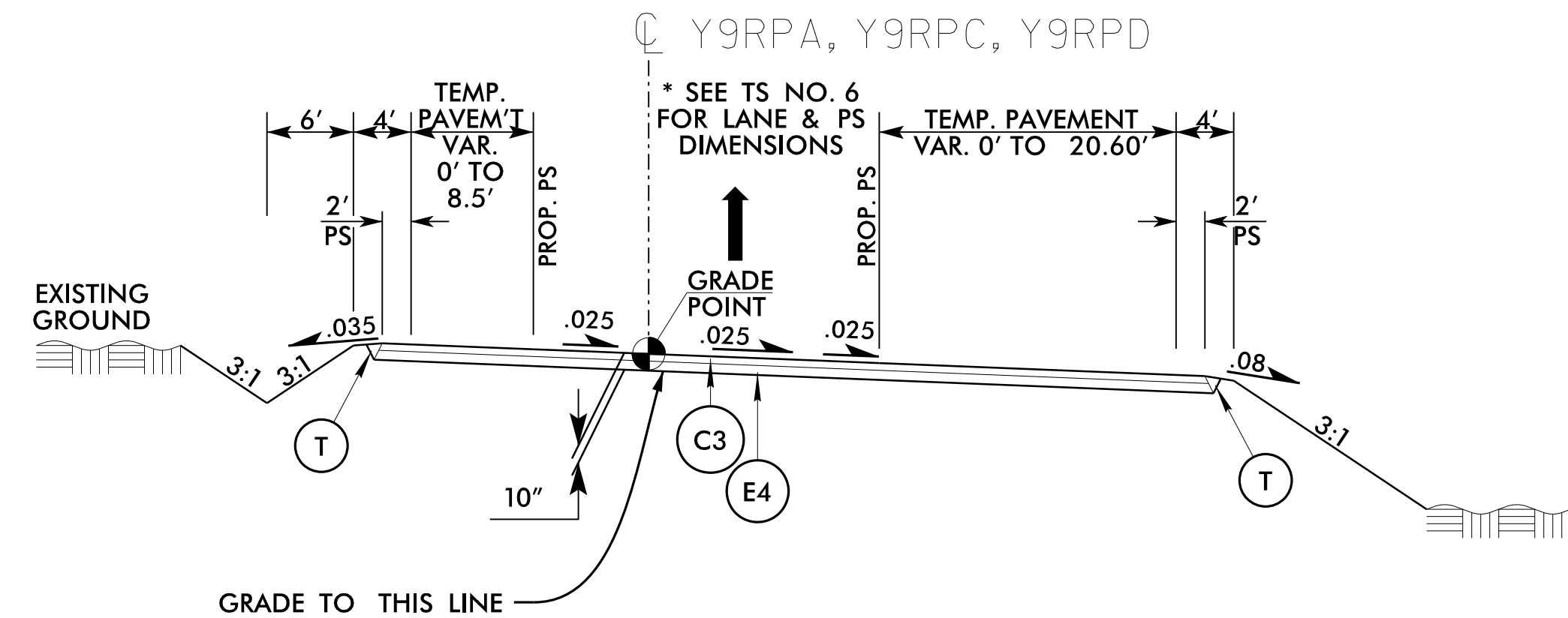
TYPICAL SECTION NO. 10
 USE TYPICAL SECTION NO. 10
 -DR2- STA. 10+20.00 TO -DR2- STA. 12+70.00
 -DR3- STA. 10+12.00 TO -DR3- STA. 12+00.00



TYPICAL SECTION NO. 11
 TEMPORARY PAVEMENT LOCATIONS

USE TYPICAL SECTION NO. 11

- L STA. 26+00 +/- TO -L STA. 67+74 +/- MED LT.
- L STA. 69+04 +/- TO -L STA. 103+84 +/- MED LT.
- L STA. 105+45 +/- TO -L STA. 152+00 +/- MED LT.
- L STA. 173+40 +/- TO -L STA. 200+00 +/- MED LT.
- L STA. 236+51 +/- TO -L STA. 245+38 +/- MED LT.
- L STA. 281+30 +/- TO -L STA. 285+30 +/- MED LT.
- L STA. 26+57 +/- TO -L STA. 67+76 +/- MED RT.
- L STA. 69+02 +/- TO -L STA. 103+83 +/- MED RT.
- L STA. 105+44 +/- TO -L STA. 152+00 +/- MED RT.
- L STA. 173+40 +/- TO -L STA. 205+13 +/- MED RT.
- L STA. 219+57 +/- TO -L STA. 245+40 +/- MED RT.
- L STA. 246+30 +/- TO -L STA. 257+78 +/- MED RT.
- L STA. 258+54 +/- TO -L STA. 272+28 +/- MED RT.
- L STA. 277+63 +/- TO -L STA. 283+92 +/- MED RT.
- L STA. 233+00 +/- TO -L STA. 243+55 +/- RT.

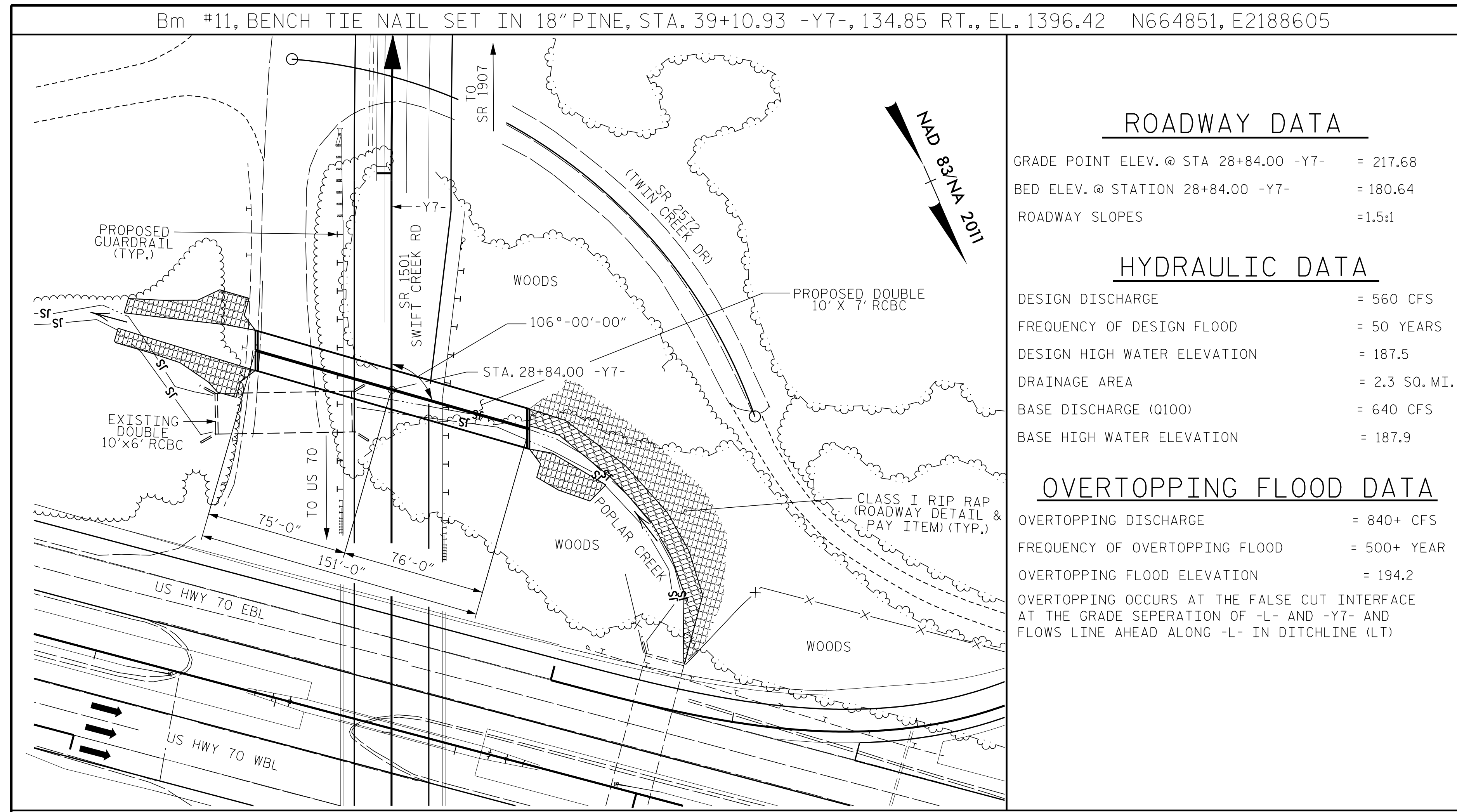


TYPICAL SECTION NO. 12
 TEMPORARY PAVEMENT LOCATIONS

USE TYPICAL SECTION NO. 12

- Y9RPA- STA. 22+88 +/- TO -Y9RPA- STA. 26+55.71 RT.
- Y9RPC- STA. 21+00 +/- TO -Y9RPC- STA. 25+51 +/- RT.
- Y9RPC- STA. 22+60 +/- TO -Y9RPC- STA. 25+48 +/- LT.
- Y9RPD- STA. 22+50 +/- TO -Y9RPD- STA. 23+90 +/- LT. (REVERSE TYPICAL)
- Y9RPD- STA. 10+00 +/- TO -Y9RPD- STA. 16+84 +/- LT. (REVERSE TYPICAL)

PAVEMENT SCHEDULE	
ITEM	DESCRIPTION
C1	1 1/2" S9.5B
C2	1 1/2" S9.5D
C3	3" S9.5B
C4	3" S9.5D
C5	VAR. S9.5B
C6	VAR. S9.5D
D1	2 1/2" I19.0C
D2	4" I19.0C
D3	VAR. I19.0C
E1	4" B25.0C
E2	4 1/2" B25.0C
E3	5 1/2" B25.0C
E4	7" B25.0C
E5	8" B25.0C
E6	VAR. B25.0C
J1	8" ABC
R1	2'-6" C & G
R2	5" MCI
R3	DOUBLE FACE CONC. BARRIER
S	4" SIDEWALK
T	EARTH MATERIAL
U	EXIST. PAVEMENT
V1	2 1/2" MILLING
V2	2 1/2" TO 4" VAR. MILLING
W1	WEDGING
W2	WEDGING
Y	MILLED RUMBLE STRIPS



ROADWAY DATA

GRADE POINT ELEV. @ STA 28+84.00 -Y7-	= 217.68
BED ELEV. @ STATION 28+84.00 -Y7-	= 180.64
ROADWAY SLOPES	= 1.5:1

HYDRAULIC DATA

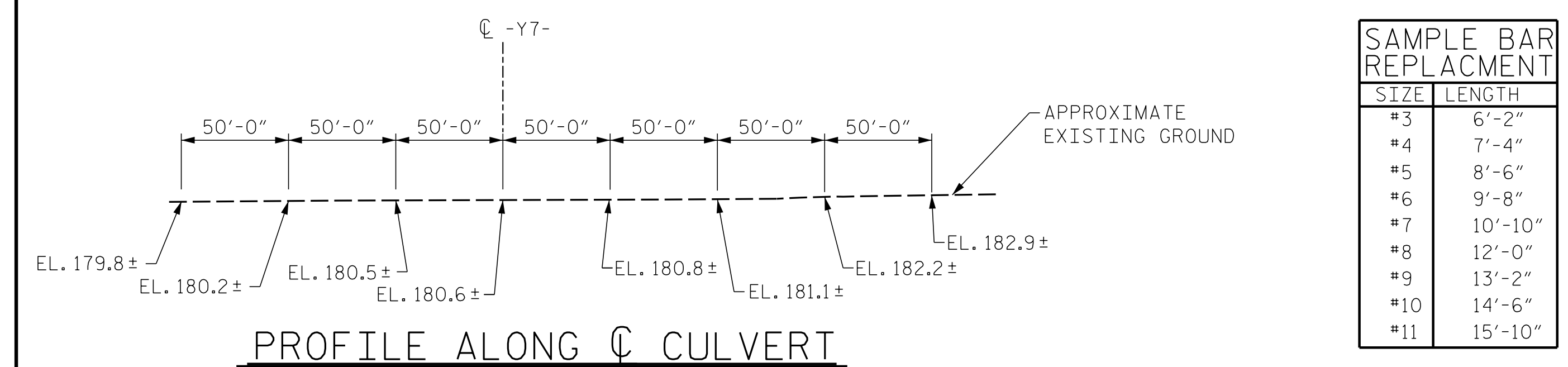
DESIGN DISCHARGE	= 560 CFS
FREQUENCY OF DESIGN FLOOD	= 50 YEARS
DESIGN HIGH WATER ELEVATION	= 187.5
DRAINAGE AREA	= 2.3 SQ. MI.
BASE DISCHARGE (Q100)	= 640 CFS
BASE HIGH WATER ELEVATION	= 187.9

OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE	= 840+ CFS
FREQUENCY OF OVERTOPPING FLOOD	= 500+ YEAR
OVERTOPPING FLOOD ELEVATION	= 194.2
OVERTOPPING OCCURS AT THE FALSE CUT INTERFACE AT THE GRADE SEPERATION OF -L- AND -Y7- AND FLOWS LINE AHEAD ALONG -L- IN DITCHLINE (LT)	

LOCATION SKETCH

FOR UTILITY INFORMATION, SEE UTILITY PLANS AND SPECIAL PROVISIONS.



PROFILE ALONG CULVERT

TOTAL BILL OF MATERIAL			
MATERIAL	ELEMENT	STAGE I	STAGE II
CLASS A CONCRETE (CU. YDS.)	BARREL	197.8	373.5
	HEADWALLS	----	2.1
	CURTAIN WALLS	1.4	1.1
	SILLS	1.5	----
	WINGS	9.1	9.1
	TOTAL	209.8	385.8
	TOTAL	595.6	
REINFORCING STEEL (LBS.)	BARREL	26454	37727
	WINGS	828	829
	TOTAL	27282	38556
	TOTAL	65838	
FOUNDATION COND. MAT'L (TONS)		155	130
	TOTAL	285	
REMOVAL OF EXISTING STRUCTURE		LUMP SUM	
CULVERT EXCAVATION		LUMP SUM	
ASBESTOS ASSESSMENT		LUMP SUM	

NOTES

- ASSUMED LIVE LOAD -----HL-93 OR ALTERNATE LOADING.
- DESIGN FILL TO BOTTOM OF TOP SLAB, 28.85' (MIN.) AND 30.12' (MAX.)
- FOR OTHER DESIGN DATA AND NOTES SEE STANDARD NOTE SHEET.
- 3"Ø WEEP HOLES INDICATED TO BE IN ACCORDANCE WITH THE SPECIFICATIONS.
- CONCRETE IN THE CULVERT TO BE POURED IN THE FOLLOWING ORDER:
- STAGE I:
 1. WING FOOTINGS AND FLOOR SLAB INCLUDING 4" OF VERTICAL WALLS.
 2. THE REMAINING PORTIONS OF THE WALLS AND WINGS FULL HEIGHT.
- STAGE II
 1. WING FOOTINGS AND FLOOR SLAB INCLUDING 4" OF VERTICAL WALL.
 2. THE REMAINING PORTIONS OF THE WALL AND WINGS FULL HEIGHT FOLLOWED BY THE ENTIRE ROOF SLAB AND HEADWALLS.
- THE RESIDENT ENGINEER SHALL CHECK THE LENGTH OF CULVERT BEFORE STAKING IT OUT TO MAKE CERTAIN THAT IT WILL PROPERLY TAKE CARE OF THE FILL.
- DIMENSIONS FOR WING LAYOUT AS WELL AS ADDITIONAL REINFORCING STEEL EMBEDDED IN BARREL ARE SHOWN ON WING SHEET.
- TRANSVERSE CONSTRUCTION JOINTS SHALL BE USED IN THE BARREL, SPACED TO LIMIT THE POURS TO A MAXIMUM OF 70 FT. LOCATION OF JOINTS SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.
- AT THE CONTRACTOR'S OPTION, HE MAY SPLICE THE VERTICAL REINFORCING STEEL IN THE INTERIOR FACE OF EXTERIOR WALL AND BOTH FACES OF INTERIOR WALLS ABOVE LOWER WALL CONSTRUCTION JOINT. THE SPLICE LENGTH SHALL BE AS PROVIDED IN THE SPLICE LENGTH CHART SHOWN ON THE PLANS. EXTRA WEIGHT OF STEEL DUE TO THE SPLICES SHALL BE PAID FOR BY THE CONTRACTOR.
- THE EXISTING STRUCTURE CONSISTING OF A 10'x6' DOUBLE BARREL REINFORCED CONCRETE BOX CULVERT 74'-3" LONG ALONG CENTERLINE OF CULVERT AND LOCATED AT PROPOSED STRUCTURE SHALL BE REMOVED. THE EXISTING CULVERT IS PRESENTLY NOT POSTED FOR LOAD LIMIT.
- AT THE CONTRACTOR'S OPTION HE MAY SUBMIT, TO THE ENGINEER FOR APPROVAL, DESIGN AND DETAIL DRAWINGS FOR A PRECAST REINFORCED CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE CULVERT SHOWN ON THE PLANS. THE DESIGN SHALL PROVIDE THE SAME SIZE AND NUMBER OF BARRELS AS USED ON THE CAST-IN-PLACE DESIGN. FOR OPTIONAL PRECAST REINFORCED CONCRETE BOX CULVERT, SEE SPECIAL PROVISIONS.
- FOR CULVERT DIVERSIONS DETAILS AND PAY ITEM, SEE EROSION CONTROL PLANS.
- A 3 FOOT STRIP OF FILTER FABRIC SHALL BE ATTACHED TO THE FILL FACE OF THE WING COVERING THE ENTIRE LENGTH OF EXPANSION JOINT.
- FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.
- FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.
- FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.
- FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

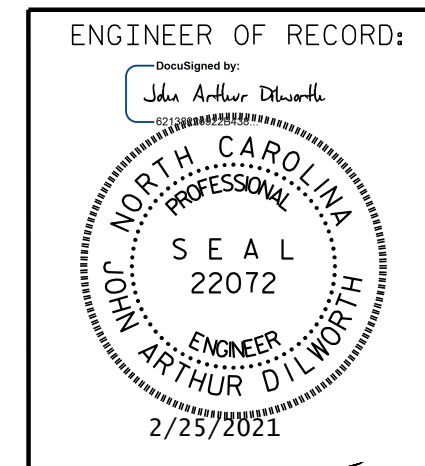
NATIVE MATERIAL BETWEEN SILLS IN THE CULVERT SHALL PROVIDE A CONTINUOUS LOW FLOW CHANNEL. NATIVE MATERIAL CONSISTS OF MATERIAL THAT IS EXCAVATED FROM THE STREAM OR FLOODPLAIN AT THE PROJECT SITE DURING CONSTRUCTION. ONLY MATERIAL THAT IS EXCAVATED FROM THE STREAM BED MAY BE USED TO LINE THE LOW FLOW CULVERT BARREL TO A DEPTH OF 1 FOOT. CLASS B RIP RAP MAY BE USED TO SUPPLEMENT THE NATIVE MATERIAL IN THE HIGH FLOW CULVERT BARREL. IF RIP RAP IS USED TO LINE THE HIGH FLOW CULVERT BARREL NATIVE MATERIAL SHOULD BE PLACED ON TOP TO FILL VOIDS AND PROVIDE A FLAT SURFACE FOR ANIMAL PASSAGE. NATIVE MATERIAL IS SUBJECT TO APPROVAL BY THE ENGINEER AND MAY BE SUBJECT TO PERMIT CONDITIONS. COST OF BACKFILLING THE CULVERT SHALL BE INCLUDED IN THE VARIOUS PAY ITEMS.

THE CONTRACTOR SHALL PROVIDE INDEPENDENT ASSURANCE SAMPLES OF REINFORCING STEEL AS FOLLOWS: FOR PROJECTS REQUIRING UP TO 400 TONS OF REINFORCING STEEL, ONE 30 INCH SAMPLE OF EACH SIZE BAR USED, AND FOR PROJECTS REQUIRING OVER 400 TONS OF REINFORCING STEEL, TWO 30 INCH SAMPLES OF EACH SIZE BAR USED. THE SAMPLE BARS SHOULD COME FROM STEEL ACTUALLY USED IN THE PROJECT AND THE SAMPLE BARS SHOULD BE REPLACED BY SPLICED BARS AS SPECIFIED IN THE SAMPLE BAR REPLACEMENT CHART. PAYMENT FOR THE SAMPLE BARS AND REPLACEMENT REINFORCING STEEL SHALL BE BE CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.

FOR ASBESTOS ASSESSMENT FOR BRIDGE DEMOLITION AND RENOVATION ACTIVITES, SEE SPECIAL PROVISIONS.

PROJECT NO. W-5600
JOHNSTON COUNTY
 STATION: 28+84.00 -Y7-
 SHEET 1 OF 8 REPLACES STRUCTURE NO. 514

I HEREBY CERTIFY THESE PLANS ARE THE AS-BUILT PLANS



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
DOUBLE 10 FT. X 7 FT. CONCRETE BOX CULVERT
106° SKEW

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	C3-1
1	JCP	2-25-21	3			TOTAL SHEETS 8
2			4			

DRAWN BY : B.C. HUNT DATE : 5-18
 CHECKED BY : J.A. DILWORTH DATE : 5-18

⚠ CORRECTED STAGE I CONCRETE QUANTITY FROM 290.8 TO 209.8

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

P:\2017\1712101\W-5600_USTO\Structures\Culverts\C5 14\DC\W5600_C5 14_WE I_cb222.dgn
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