



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

November 5, 2020

ADDENDUM # 2

To: Plan Holders

From: Wes Jamison
Project Manager

^{DS}
WJ

RE: **Revised Typical Sections Sheet, revised Summary of Quantities sheets, revised pay items, revised quantities, addition of a standard provision and question & answer**

Contract ID: DN00721
County: Graham and Swain
Letting Date: November 10, 2020

The above contract has experienced the following revisions:

1. **Plan sheet 4, the Typical Sections**, has been **revised**. See attached.
2. **Plan sheet 5, the Summary of Quantities**, has been **revised** to correctly associate each typical section with its corresponding map and to reflect revised quantities. See attached.
3. **Pay items and quantities** have been **revised**. See the attached revise bid items sheets **T-1 and T-2**.
4. On page **PM-1**, after **THERMOPLASTIC PAVEMENT MARKING MATERIAL (60 MIL)**, **insert** the following provision: **SP12 R05**. See attached. Note: NCDOT is no longer using 120 MIL Thermo, so this provision is in addition to the 60 MIL; it does not replace it. Both 60 and 90 MIL thermo is being used on this project. Please read both provisions carefully.
5. The following questions were posed by a potential bidder and the associated response has been provided by NCDOT.

Question 1. "According to the Lenscradle Snowplowable Marker specification, there are (2) reflective markers in each groove at each location. So would each location be paid as a quantity of 2 Ea. or 1 Ea.?"

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Answer 1. The groove, epoxy, and 2 markers are paid as 1 each.

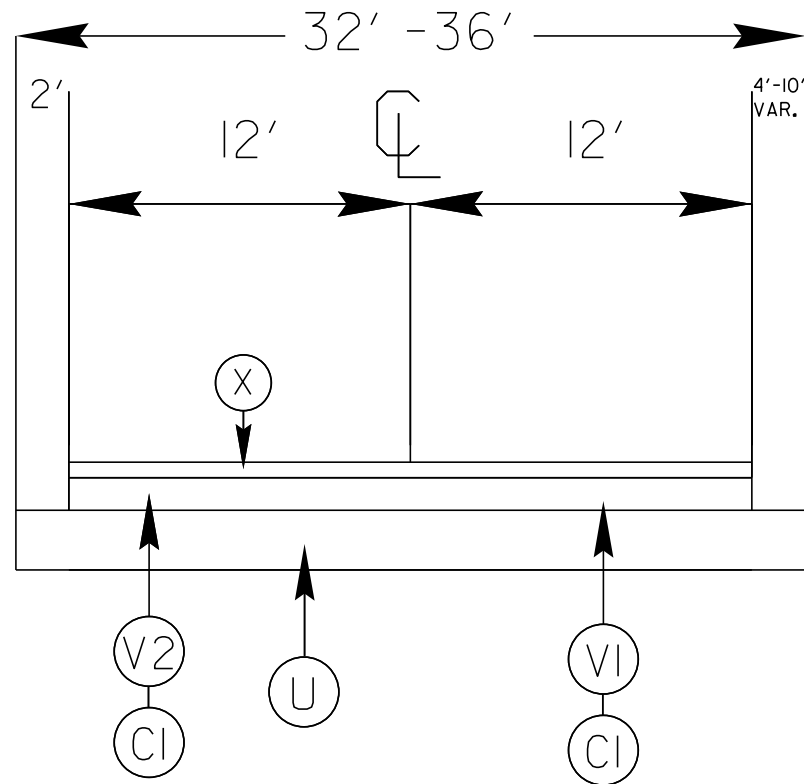
Question 2. “Are the temporary Pavement Markings paid for by the LF or are they part of the Lump Sum Temporary Traffic Control?”

Answer 1. On DN00721 the milling, paving, and pavement marking operations are expected to be completed without the need for temporary paint.

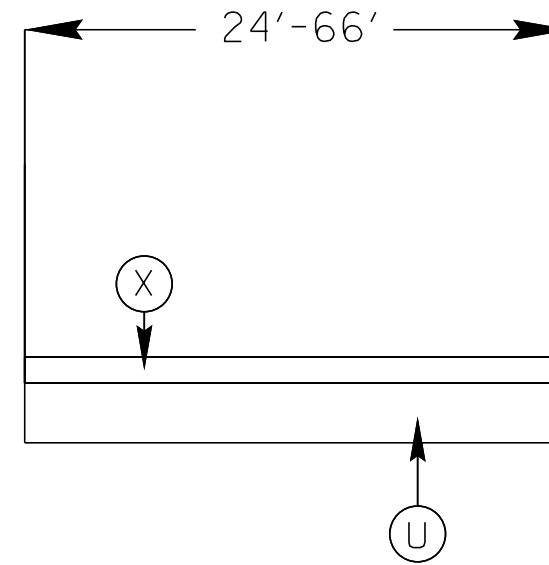
The ebsx addendum file is accessible on Bid Express® (bidx.com website).

Thank you for your attention to this matter.

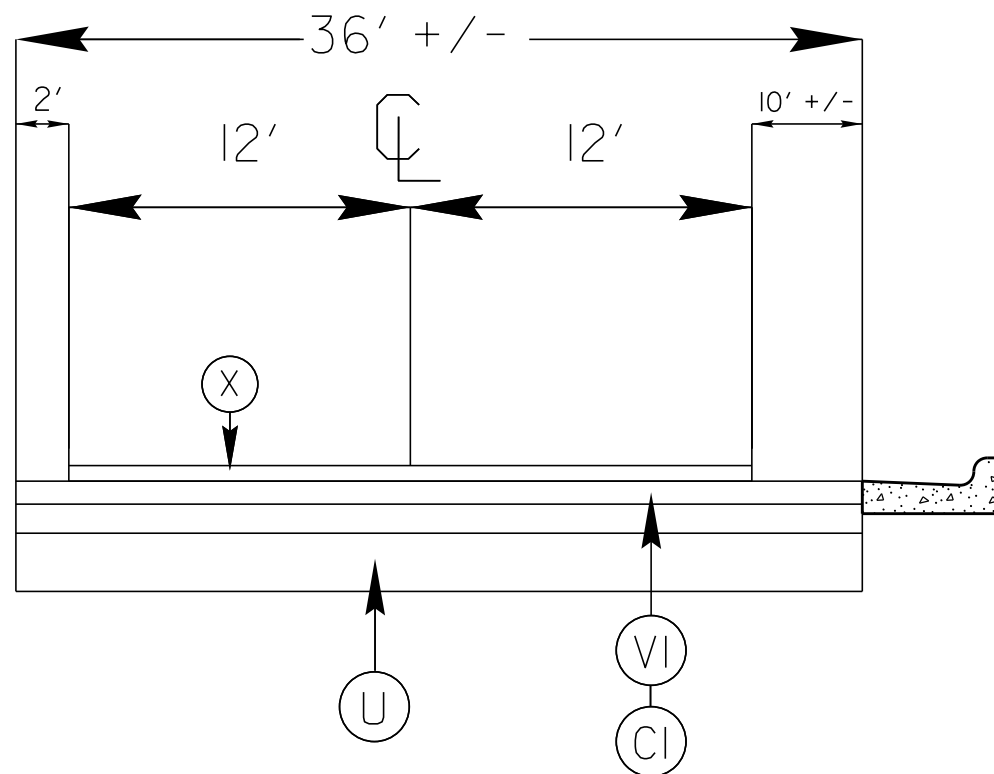
TYPICAL 1



TYPICAL 2



TYPICAL 3



SURFACING SCHEDULE

ITEM NO.	DESCRIPTION
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
U	EXISTING ASPHALT.
V1	MILLED ASPHALT PAVEMENT 1 1/2" IN DEPTH IN CONTINUOUS LANE WIDTH AS DIRECTED BY PROJECT ENGINEER.
V2	MILLED ASPHALT PAVEMENT 1 1/2" IN DEPTH AT LOCATIONS AS DIRECTED BY PROJECT ENGINEER.
X	PROP. APPROX. 5/8" ASPHALT CONCRETE SURFACE COURSE, TYPE (ULTRA) THIN BOND WEAR COURSE, AT AN AVERAGE RATE OF 75 LBS. PER SQ. YD.

PROJECT NO.	SHEET NO.	TOTAL NO.
2021CPT.14.03.10381, 2021CPT.14.03.10871	5	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	1297000000-E	1330000000-E	1519000000-E	1575000000-E	1577000000-E	1704000000-E	1839140000-E	4898000000-N	
												1½" MILLING	INCIDENTAL MILLING	SURFACE COURSE, S9.5B	ASPHALT BINDER FOR PLANT MIX	POLYMER MODIFIED ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	ULTRA-THIN BONDED WEARING COURSE	GENERIC PAVEMENT MARKING ITEM (SNOWPLOWABLE PAVEMENT MARKERS WITH NON-METALLIC HOUSINGS)	
											MI	FT	SY	SY	TONS	TONS	TONS	TONS	TON	EA
2021CPT.14.03.10381	Graham	1	NC 28 NORTH	FROM SWAIN COUNTY LINE TO .11 MILES SOUTH OF SR-1234	1	2	MD	NO	NO	1.85	24	17,459	200	2,160	145	57		1,094	168	
TOTAL FOR MAP NO. 1											1.85		17,459	200	2,160	145	57		1,094	168
2021CPT.14.03.10381	Graham	2	NC 28 SOUTH	FROM .01 MILES SOUTH OF SR-1234 TO SWAIN COUNTY LINE	1	2	MD	NO	NO	1.86	24	17,459	200	1,626	109	57		1,100	168	
TOTAL FOR MAP NO. 2											1.86		17,459	200	1,626	109	57		1,100	168
2021CPT.14.03.10381	Graham	3	NC 28 NORTH	(MP 2.6) .3 MILES NORTH OF SR 1231	3	2	MD	NO	NO	0.2	36	4,224		350	23	5	114	99	14	
TOTAL FOR MAP NO. 3											0.2		4,224		350	23	5	114	99	14
TOTAL FOR PROJ NO. 2021CPT.14.03.10381											3.91		39,142	400	4,136	277	119	114	2,293	350
2021CPT.14.03.10871	Swain	4	NC 28 NORTH AND SOUTH	FROM SR-1301 TO BEG DIV HWY	3	2	MU	NO	NO	0.34	46		200			10		201	64	
TOTAL FOR MAP NO. 4											0.34			200			10		201	64
2021CPT.14.03.10871	Swain	5	NC 28 NORTH	FROM BEG DIV HWY TO GRAHAM LINE	1	2	MD	NO	NO	2.73	24	22,422	200	2,016	135	84	65	1,614	198	
TOTAL FOR MAP NO. 5											2.73		22,422	200	2,016	135	84	65	1,614	198
2021CPT.14.03.10871	Swain	6	NC 28 SOUTH	FROM GRAHAM LINE TO END DIV HWY	1	2	MD	NO	NO	2.73	24	22,422	200	2,016	135	84		1,614	198	
TOTAL FOR MAP NO. 6											2.73		22,422	200	2,016	135	84		1,614	198
TOTAL FOR PROJ NO. 2021CPT.14.03.10871											5.8		44,844	600	4,032	270	178	65	3,429	460
GRAND TOTAL											9.71		83,986	1,000	8,168	547	297	179	5,722	810

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	4405000000-E	4413000000-E	4457000000-N	4695000000-E	4710000000-E	4725000000-E	4810000000-E		4890000000-E				
										PORTABLE WORK ZONE SIGN	WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	8" X 90 M YELLOW THERMO	24" X 90 M WHITE THERMO	THERMO LT ARROW 90 M	4" WHITE PAINT	4" YELLOW PAINT	GENERIC PAVE. MARK ITEM 4" X 60 MIL WHITE THERMO	GENERIC PAVE. MARK ITEM 4" X 60 MIL YELLOW THERMO.			
										MI	FT	SF	SF	LS	LF	LF	EA	LF	LF	LF	LF	
2021CPT.14.03.10381	Graham	1	NC 28 NORTH	FROM SWAIN COUNTY LINE TO .11 MILES SOUTH OF SR-1234	1	2	MD	1.85	24	96	50	1.00			8	10,884	9,768	12,580	10,138			
TOTAL FOR MAP NO. 1											1.85		96	50	1		8	10,884	9,768	12,580	10,138	
2021CPT.14.03.10381	Graham	2	NC 28 SOUTH	FROM .01 MILES SOUTH OF SR-1234 TO SWAIN COUNTY LINE	1	2	MD	1.86	24		96				15	10,820	9,820	12,580	10,138			
TOTAL FOR MAP NO. 2											1.86		96			15	10,820	9,820	12,580	10,138		
2021CPT.14.03.10381	Graham	3	NC 28 NORTH	(MP 2.6) .3 MILES NORTH OF SR 1231	3	2	MD	0.2	36		96			80	7	1,000	960	6,860	1,180			
TOTAL FOR MAP NO. 3											0.2		96			80	7	1,000	960	6,860	1,180	
TOTAL FOR PROJ NO. 2021CPT.14.03.10381											3.91		96	242	1		80	30	22,704	20,548	32,020	21,456
															43,252		53,476					
2021CPT.14.03.10871	Swain	4	NC 28 NORTH AND SOUTH	FROM SR-1301 TO BEG DIV HWY	3	2	MU	0.34	46		96		700	40		800	1,100	5,895	3,600			
TOTAL FOR MAP NO. 4											0.34		96		700	40	800	1,100	5,895	3,600		
2021CPT.14.03.10871	Swain	5	NC 28 NORTH	FROM BEG DIV HWY TO GRAHAM LINE	1	2	MD	2.73	24		96			80	7	16,707	14,414	18,564	14,960			
TOTAL FOR MAP NO. 5											2.73		96			80	7	16,707	14,414	18,564	14,960	
2021CPT.14.03.10871	Swain	6	NC 28 SOUTH	FROM GRAHAM LINE TO END DIV HWY	1	2	MD	2.73	24		96			100	7	16,607	14,414	18,564	14,960			
TOTAL FOR MAP NO. 6											2.73		96			100	7	16,607	14,414	18,564	14,960	
TOTAL FOR PROJ NO. 2021CPT.14.03.10871											5.8		288		700	220	14	34,114	29,928	43,023	33,520	
															64,042		76,543					
GRAND TOTAL											9.71		96	530	1	700	300	44	56,818	50,476	75,043	54,976
															107,294		130,019					

County : Graham, Swain

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
ROADWAY ITEMS						
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	1297000000-E	607	MILLING ASPHALT PAVEMENT, **** DEPTH (1½" MILLING)	83,986 SY		
0004	1330000000-E	607	INCIDENTAL MILLING	1,000 SY		
0006	1519000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	8,168 TON		
0007	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	572 TON		
0008	1577000000-E	620	POLYMER MODIFIED ASPHALT BIN- DER FOR PLANT MIX	297 TON		
0009	1704000000-E	SP	PATCHING EXISTING PAVEMENT	65 TON		
0010	1839140000-E	661	ULTRA-THIN BONDED WEARING COURSE	5,722 TON		
0011	4405000000-E	1110	WORK ZONE SIGNS (PORTABLE)	96 SF		
0012	4413000000-E	SP	WORK ZONE ADVANCE/GENERAL WARNING SIGNING	530 SF		
0013	4457000000-N	SP	TEMPORARY TRAFFIC CONTROL	Lump Sum	L.S.	
0014	4695000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	700 LF		
0016	4725000000-E	1205	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	44 EA		
0017	4890000000-E	SP	GENERIC PAVEMENT MARKING ITEM (4" X 60 MIL WHITE THERMO)	75,043 LF		
0018	4890000000-E	SP	GENERIC PAVEMENT MARKING ITEM (4" X 60 MIL YELLOW THERMO)	54,976 LF		
0019	4898000000-N	1251	GENERIC PAVEMENT MARKING ITEM (NON-CAST IRON SNOWPLOWABLE PA VEMENT MARKERS)	810 EA		
0020	1704000000-E	SP	PATCHING EXISTING PAVEMENT	114 TON		

County : Graham, Swain

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0021	4891000000-E	1205	GENERIC PAVEMENT MARKING ITEM (THERMOPLASTIC PAVEMENT MARKIN G LINES (24", 90 MILS))	80	LF	
0022	4891000000-E	1205	GENERIC PAVEMENT MARKING ITEM (THERMOPLASTIC PAVEMENT MARKIN G LINES (24", 90 MILS))	220	LF	
			Total Amount Of Bid For Entire Project :			

1530/Nov05/Q232425.0/D59700240000/E19

EXTRUDED THERMOPLASTIC PAVEMENT MARKING THICKNESS:

3-19-19 (11-10-20)

1205

SP12 R05

Revise the *2018 Standard Specifications* as follows:

Page 12-6, Subarticle 1205-4(A)(1) General, lines 5-8, delete the second sentence and replace with the following:

Use application equipment that provides multiple width settings ranging from 4 inches to 12 inches and multiple thickness settings to achieve a minimum pavement marking thickness of 0.090 inch above the surface of the pavement.

Page 12-7, Table 1205-3, THICKNESS REQUIREMENTS FOR THERMOPLASTIC, replace with the following:

TABLE 1205-3 MINIMUM THICKNESS REQUIREMENTS FOR THERMOPLASTIC	
Thickness	Location
240 mils	In-lane and shoulder-transverse pavement markings (rumble strips). May be placed in 2 passes.
90 mils	Skip lines, transverse bands, mini-skip lines, characters, bike lane symbols, crosswalk lines, gore lines, diagonals, and arrow symbols