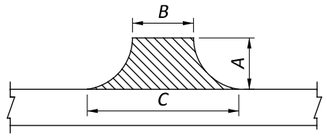
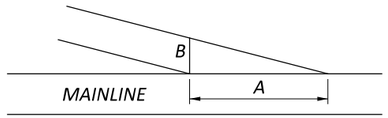
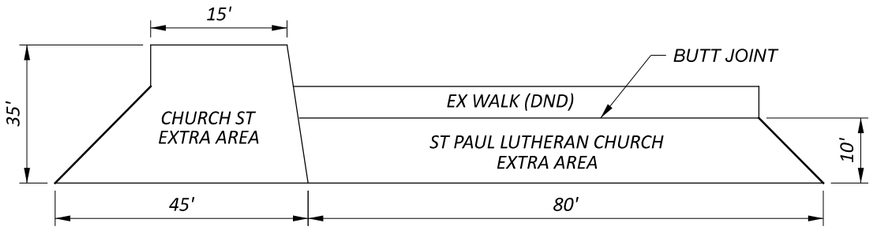


$$AREA = \left[A \left(\frac{B + C}{2} \right) \right] / 9$$



AREA = (A / 2 * B) / 9
(IF NO "C" IN TABLE BELOW)



EXTRA AREA DATA

LOCATION	COUNTY	ROUTE	DESCRIPTION	SIDE	INTERSECTIONS			AREA	202	407	441	
					DETAIL DIMENSION				WEARING COURSE REMOVED	NON-TRACKING TACK COAT @ 0.08 GAL./S.Y.	THICKNESS	ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449), PG 64-22
					A	B	C					
					FT.	FT.	FT.	SQ. YD.	SQ. YD.	GAL.	IN.	CU. YD.
1	PER	S.R. 188	NEW SALEM RD.	LT	98	30		163.4	163.4	13.1	1.25	5.7
			TWP. RD. 88	RT	150	40		333.4	333.4	26.7	1.25	11.6
			HIGH POINT RD. (C.R. 29)	LT	34	18	46	120.9	120.9	9.7	1.25	4.2
			HIGH POINT RD. (C.R. 29)	LT	34	16	44	113.4	113.4	9.1	1.25	4.0
			TWP. RD. 82	RT	41	13	40	120.8	120.8	9.7	1.25	4.2
			TWP. RD. 81	LT	42	18	44	144.7	144.7	11.6	1.25	5.1
			TWP. RD. 15	RT	66	11	57	249.4	249.4	20.0	1.25	8.7
			TWP. RD. 390	LT	60	17	55	240.0	240.0	19.2	1.25	8.4
			RIDENOUR RD. (C.R. 28)	RT	55	18	92	336.2	336.2	26.9	1.25	11.7
			TWP. RD. 80	LT	47	16	60	198.5	198.5	15.9	1.25	6.9
			THORNHILL	RT	28	35	75	171.2	171.2	13.7	1.25	6.0
			THORNVILLE									
			ALLEY	LT	20	12	12	26.7	26.7	2.2	1.25	1.0
			W. SOUTH ST.	LT	26	21	37	83.8	83.8	6.8	1.25	3.0
			E. SOUTH ST.	RT	33	32	32	117.4	117.4	9.4	1.25	4.1
			FIRST ST.	LT	27	18	23	61.5	61.5	5.0	1.25	2.2
			FIRST ST.	RT	25	13	26	54.2	54.2	4.4	1.25	1.9
LOCATION 1 TOTALS (CARRIED TO SUB-SUMMARY)									**2,535.5**	**203.4**		**88.7**
2	PER	S.R. 757	TWP. RD. 70	RT	30	16	56	120.0	120.0	9.6	1.25	4.2
			TWP. RD. 70	LT	35	15	60	145.9	145.9	11.7	1.25	5.1
			LOOP RD. (C.R. 31)	LT	35	17	65	159.5	159.5	12.8	1.25	5.6
			TWP. RD. 71	RT	30	16	50	110.0	110.0	8.8	1.25	3.9
			TWP. RD. 72	RT	35	18	48	128.4	128.4	10.3	1.25	4.5
			TWP. RD. 72	RT	25	24	45	95.9	95.9	7.7	1.25	3.4
			BLACK HORSE RD. (C.R. 27)	LT	120	35		233.4	233.4	18.7	1.25	8.2
			COOPERRIDERS RD. (C.R. 51)	RT	40	33	80	251.2	251.2	20.1	1.25	8.8
			HIGH POINT RD. (C.R. 29)	LT	70	23	123	567.8	567.8	45.5	1.25	19.8
			TWP. RD. 19	LT	25	17	50	93.1	93.1	7.5	1.25	3.3
			TWP. RD. 19	RT	30	15	74	148.4	148.4	11.9	1.25	5.2
			CHURCH ST. (SEE ABOVE)	LT	35	15	45	116.7	116.7	9.4	1.25	4.1
			ST. PAUL LUTHERAN CHURCH (SEE ABOVE)	LT	10	80		88.9	88.9	7.2	1.25	3.1
			MAIN ST.	LT	35	30	94	241.2	241.2	19.3	1.25	8.4
LOCATION 2 TOTALS (CARRIED TO SUB-SUMMARY)									**2,500.4**	**200.5**		**87.6**

EXTRA AREA DATA

DESIGN AGENCY

DESIGNER LME

REVIEWER JSL 04/01/22

PROJECT ID 101013

SHEET 9 TOTAL 23

PER-188/757-0.00/0.00

BRIDGE DECK TREATMENT

LOCATION 2
PER-757-0405: BUTT JOINT AT APPROACH SLAB, PATCH AND SEAL DECK

PER-757-0486: 1.50" MILL/FILL SURFACE COURSE,
ABUTMENT REPAIRS (SEE SHEETS 12-14)

ITEM 202, PORTION OF STRUCTURE REMOVED, AS PER PLAN

ALL CONCRETE REMOVED SHALL BE REMOVED BY MEANS OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL TOOLS. HYDRAULIC HOE-RAM TYPE HAMMERS WILL NOT BE PERMITTED.
THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 35 POUNDS FOR REMOVAL WITHIN 18 INCHES OF PORTIONS TO BE PRESERVED. OUTSIDE THE 18 INCH LIMIT, THE CONTRACTOR MAY USE HAMMERS NOT EXCEEDING 90 POUNDS UPON THE APPROVAL OF THE ENGINEER. DO NOT PLACE PNEUMATIC HAMMERS IN DIRECT CONTACT WITH THE REINFORCING STEEL WHICH SHALL BE PRESERVED.

ALL LOCATIONS AND DIMENSIONS TO BE DETERMINED BY THE ENGINEER.

PAYMENT FOR ALL OF THE ABOVE DESCRIBED LABOR, EQUIPMENT, AND MATERIALS WILL BE MADE AT THE CONTRACT PRICE BID FOR ITEM 202, PORTION OF STRUCTURE REMOVED AS PER PLAN.

ITEM 516, 2" DEEP JOINT SEALER, AS PER PLAN (B)

REMOVE ALL FOREIGN MATERIAL AND DEBRIS FROM THE EXISTING JOINT BETWEEN THE APPROACH SLAB AND DECK OR BACKWALL. ANY SPALLS ADJACENT TO THE JOINT LESS THAN OR EQUAL TO 3" SHALL BE CLEANED AND SEALED WITH THIS ITEM. FOR SPALLS GREATER THAN 3" USE ITEMS 202 AND 511 AS DESCRIBED ON THIS SHEET.

AFTER REMOVAL, PERFORM A NEW SAWCUT TO ESTABLISH A ½" WIDE BY 2¼" DEEP JOINT ALONG THIS INTERFACE. ONCE THE JOINT HAS BEEN OPENED OR CREATED, AIRBLAST THOROUGHLY PRIOR TO PLACEMENT OF HOT APPLIED JOINT SEALER PER 705.04, AS DIRECTED BY THE ENGINEER.

DO NOT DISTURB EXPANSION JOINT INSIDE JOINT ARMOR.

PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 516, 2" DEEP JOINT SEALER, AS PER PLAN (B)

ITEM 511, CLASS QC2 CONCRETE, BRIDGE DECK, AS PER PLAN

THIS ITEM SHALL CONFORM TO CMS 511 EXCEPT FOR THE FOLLOWING:

PROVIDE PATCHES AT A 4" MINIMUM DEPTH IN LOCATIONS MARKED OUT IN ITEM 202, PORTIONS OF STRUCTURE REMOVED, AS PER PLAN.

TO EXPEDITE WORK, CLASS QC2 CONCRETE WITH AN ACCELERATING ADMIXTURE SIKA RAPID-1 OR ANY APPROVED EQUIVALENT ADMIXTURE SHALL BE USED TO ACHIEVE 3,000 PSI COMPRESSVE STRENGTH IN 12 HRS. USE A NON-CHLORIDE ACCELERATING ADMIXTURE AND PROVIDE DOCUMENTATION THAT THE MIX WILL PROVIDE THE STRENGTH IN THE SPECIFIED TIME.

TRAFFIC WILL NOT BE PERMITED ON THE FINISHED CONCRETE SURFACE UNTIL AFTER COMPLETION OF A 12 HOUR MINIMUM WET CURE AND AFTER TWO TEST BEAMS HAVE ATTAINED AN AVERAGE MODULUS OF RUPTURE OF 400 PSI.

THE CONTRACTOR MAY, AFTER THE INITIAL 2 HOUR SET UP OF THE CONCRETE, PLACE A STEEL PLATE OVER THE CONCRETE REPAIR IN ORDER TO OPEN TRAFFIC UP TO UNRESTRICTED TRAFFIC. WET BURLAP BEDDING MUST BE PLACED BETWEEN THE STEEL PLATE AND FRESH CONCRETE PATCHED SURFACE. THE CONTRACTOR WILL STILL BE REQUIRED TO PROVIDE A WET CURE FOR THE DURATION OF THE CURE TIME.

INTERNAL CURING ADMIXTURES MAY BE USED IN LIEU OF WET BURLAP AT APPROVAL OF THE ENGINEER.

PAYMENT FOR ALL OF THE ABOVE DESCRIBED LABOR, EQUIPMENT, AND MATERIALS WILL BE MADE AT THE CONTRACT PRICE BID FOR ITEM 511, CLASS QC2 CONCRETE, BRIDGE DECK, AS PER PLAN

BRIDGE TREATMENT DATA

BRIDGE TREATMENT DATA																					
												202	254	407	441			511	512	516	
LOCATION	COUNTY-ROUTE-BRIDGE NO.	SFN	LENGTH (BRIDGE LIMITS)	WIDTH	AREA BRIDGE DECK	APPROACH SLAB LENGTH	APPROACH SLAB WIDTH	AREA APPROACH SLAB (BOTH)	DETAIL (SEE SHEET 11)	MAINLINE DEDUCTIONS (CARRIED TO PAVEMENT DATA)	SHOULDER DEDUCTIONS (CARRIED TO SHOULDER DATA)	PORTION OF STRUCTURE REMOVED, AS PER PLAN	PAVEMENT PLANING, ASPHALT CONCRETE, 1.50"	NON-TRACKING TACK COAT @ 0.08 GAL./S.Y.	THICKNESS	ASPHALT CONCRETE MISC.: SURFACE COURSE, TYPE 1, (448), PG 70-22M, HIGH RAP	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, PG 70-22M	CLASS QC2 CONCRETE, BRIDGE DECK, AS PER PLAN	SEALING CONCRETE BRIDGE DECK WITH HMWM RESIN (**INCLUDES APPROACH SLABS)	2" DEEP JOINT SEALER, AS PER PLAN (A)	2" DEEP JOINT SEALER, AS PER PLAN (B)
			LIN. FT.	LIN. FT.	SQ. YD.	LIN. FT.	LIN. FT.	SQ. YD.		SQ.YD.	SQ.YD.	CU. YD.	SQ. YD.	GAL.	INCH	CU. YD.	CU. YD.	CU. YD.	SQ. YD.	FT.	FT.
2	PER-757-0405	6403689	62	30	206.7	20.0	30.0	133.3	1	249.3	45.3	1.0						1.0	340.0**	60.0	60.0
	PER-757-0486	6403735	33	30	110.0	15.0	30.0	100.0	2	154.0	28.0		255.0	15.8	1.50	4.4	4.4				
SUB-TOTALS										403.3	73.3										
LOCATION 2 TOTALS (CARRIED TO SUB-SUMMARY)												1.0	255.0	15.8		4.4	4.4	1.0	340.0	60.0	60.0

PER-188/757-0.00/0.00

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DESIGN AGENCY

DESIGNER LME
REVIEWER JSL 04/01/22
PROJECT ID 101013
SHEET 10 TOTAL 23

LOCATION 1 SHEET TOTALS										ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION
2	3	5	6	7	8	9	15	16	18					
														ROADWAY
						2,536				202	23500	2,536	SY	WEARING COURSE REMOVED
8.46										209	60500	8.46	MILE	LINEAR GRADING
														DRAINAGE
	2									611	98630	2	EACH	CATCH BASIN ADJUSTED TO GRADE
	2									611	99654	2	EACH	MANHOLE ADJUSTED TO GRADE
	2									638	10800	2	EACH	VALVE BOX ADJUSTED TO GRADE
														PAVEMENT
250										253	02000	250	CY	PAVEMENT REPAIR
	890			58,761	3,544					254	01000	63,195	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.50"
				4,701	284	204				407	20000	5,189	GAL	NON-TRACKING TACK COAT
					4,074					408	10001	4,074	GAL	PRIME COAT, AS PER PLAN
						89				441	70000	89	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22
	17			1,225	70					441	50101	1,312	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN , PG70-22M
	17			1,225	78					441	90000	1,320	CY	ASPHALT CONCRETE, MISC.: SURFACE COURSE, TYPE 1, (448), PG70-22, HIGH RAP
					566					617	10101	566	CY	COMPACTED AGGREGATE, AS PER PLAN
														TRAFFIC CONTROL
									357	621	00100	357	EACH	RPM
									357	621	54000	357	EACH	RAISED PAVEMENT MARKER REMOVED
							8.68			644	00104	8.68	MILE	EDGE LINE, 6"
							4.48			644	00300	4.48	MILE	CENTER LINE
								243		644	00500	243	FT	STOP LINE
								279		644	00620	279	FT	CROSSWALK LINE, 12"
								680		644	01200	680	EACH	PARKING LOT STALL MARKING
														MAINTENANCE OF TRAFFIC
			20							614	11110	20	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE
			26							614	12460	26	EACH	WORK ZONE MARKING SIGN
		2								614	13000	2	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC
			4.48							614	21550	4.48	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT
			16							614	26610	16	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT

LOCATION 1 SUB-SUMMARY

DESIGN AGENCY

DESIGNER LME

REVIEWER JSL 04/01/22

PROJECT ID 101013

SHEET 20 TOTAL 23

PER-188/757-0.00/0.00

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LOCATION 2 SHEET TOTALS												ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION
2	3	5	6	7	8	9	10	12	15	16	19					
																ROADWAY
						2,501						202	23500	2,501	SY	WEARING COURSE REMOVED
11.36												209	60500	11.36	MILE	LINEAR GRADING
																PAVEMENT
250												253	02000	250	CY	PAVEMENT REPAIR
	1,210			72,907			255					254	01000	74,372	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.50"
				5,833		201	16					407	20000	6,050	GAL	NON-TRACKING TACK COAT
					5,332							408	10001	5,332	GAL	PRIME COAT, AS PER PLAN
						88						441	70000	88	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22
	23			1,519			5					441	50101	1,547	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN , PG70-22M
	23			1,519			5					441	90000	1,547	CY	ASPHALT CONCRETE, MISC.: SURFACE COURSE, TYPE 1, (448), PG70-22, HIGH RAP
							60					516	31011	60	FT	2" DEEP JOINT SEALER, AS PER PLAN (A)
					736							617	10101	736	CY	COMPACTED AGGREGATE, AS PER PLAN
																TRAFFIC CONTROL
											569	621	00100	569	EACH	RPM
											569	621	54000	569	EACH	RAISED PAVEMENT MARKER REMOVED
									11.36			644	00104	11.36	MILE	EDGE LINE, 6"
									5.68			644	00300	5.68	MILE	CENTER LINE
										318		644	00500	318	FT	STOP LINE
									0.04			646	10010	0.04	MILE	EDGE LINE, 6"
									0.02			646	10200	0.02	MILE	CENTER LINE
																STRUCTURE REPAIR (PER-757-0405)
							1					202	11301	1	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
							1					511	34445	1	CY	CLASS QC2 CONCRETE, BRIDGE DECK, AS PER PLAN
							340					512	10300	340	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN
							60					516	31011	60	FT	2" DEEP JOINT SEALER, AS PER PLAN (B)
																STRUCTURE REPAIR (PER-757-0486)
								2				202	11301	2	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN (SUBSTRUCTURE)
								2				503	21100	2	CY	UNCLASSIFIED EXCAVATION
								56				509	10000	56	LB	EPOXY COATED REINFORCING STEEL
								2				511	44110	2	CY	CLASS QC1 CONCRETE, ABUTMENT NOT INCLUDING FOOTING
								14				512	10050	14	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)
								6				516	13601	6	SF	1" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN
								60				516	31011	60	FT	2" DEEP JOINT SEALER, AS PER PLAN (C)
								4				518	62200	4	EACH	STRUCTURE DRAINAGE, MISC.: STEEL DEFLECTOR
																MAINTENANCE OF TRAFFIC
			35									614	12460	35	EACH	WORK ZONE MARKING SIGN
		3										614	13000	3	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC
			5.68									614	21550	5.68	MILE	WORK ZONE CENTER LINE, CLASS III, 642 PAINT
			24									614	26610	24	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT

LOCATION 2 SUB-SUMMARY

DESIGN AGENCY

DESIGNER LME

REVIEWER JSL 04/01/22

PROJECT ID 101013

SHEET 21 TOTAL 23

PER-188/757-0.00/0.00

LOCATION TOTALS		PLAN SPLITS		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET
LOC 1	LOC 2	01/NFA/PV	02/NFA/BR						
								ROADWAY	
2,536	2,501	5,037		202	23500	5,037	SY	WEARING COURSE REMOVED	
8.46	11.36	19.82		209	60500	19.82	MILE	LINEAR GRADING	2
								DRAINAGE	
2		2		611	98630	2	EACH	CATCH BASIN ADJUSTED TO GRADE	
2		2		611	99654	2	EACH	MANHOLE ADJUSTED TO GRADE	
2		2		638	10800	2	EACH	VALVE BOX ADJUSTED TO GRADE	
								PAVEMENT	
250	250	500		253	02000	500	CY	PAVEMENT REPAIR	
63,195	74,372	137,567		254	01000	137,567	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.50"	
5,189	6,050	11,239		407	20000	11,239	GAL	NON-TRACKING TACK COAT	
4,074	5,332	9,406		408	10001	9,406	GAL	PRIME COAT, AS PER PLAN	2
89	88	177		441	70000	177	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	
1,312	1,547	2,859		441	50101	2,859	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, PG70-22M	3
1,320	1,547	2,867		441	90000	2,867	CY	ASPHALT CONCRETE, MISC.: SURFACE COURSE, TYPE 1, (448), PG70-22M, HIGH RAP	4
	60	60		516	31011	60	FT	2" DEEP JOINT SEALER, AS PER PLAN (A)	2
566	736	1,302		617	10101	1,302	CY	COMPACTED AGGREGATE, AS PER PLAN	2
								TRAFFIC CONTROL	
357	569	926		621	00100	926	EACH	RPM	
357	569	926		621	54000	926	EACH	RAISED PAVEMENT MARKER REMOVED	
8.68	11.36	20.04		644	00104	20.04	MILE	EDGE LINE, 6"	
4.48	5.68	10.16		644	00300	10.16	MILE	CENTER LINE	
243	318	561		644	00500	561	FT	STOP LINE	
279		279		644	00620	279	FT	CROSSWALK LINE, 12"	
680		680		644	01200	680	EACH	PARKING LOT STALL MARKING	
	0.04		0.04	646	10010	0.04	MILE	EDGE LINE, 6"	
	0.02		0.02	646	10200	0.02	MILE	CENTER LINE	

GENERAL SUMMARY

DESIGN AGENCY

DESIGNER LME

REVIEWER JSL 04/01/22

PROJECT ID 101013

SHEET 22 TOTAL 23

PER-188/757-0.00/0.00