



CALCULATIONS

Project: 2020-0420
PID No. 105100
SCI-239-0.95

Submittal: Final
Date: Jul 22, 2021
By: ATD
Checked: CLP

Pavement Calculations

Item	Quantity	Unit
TOTAL ITEM 202 - Pavement Removed,	318	SQ YD
TOTAL ITEM 204 - Subgrade Compaction,	405	SQ YD
TOTAL ITEM 254 - Pavement Planing	465	SY
TOTAL ITEM 301 - Asphalt Concrete Base, PG64-22,	71	CU YD
TOTAL ITEM 304 - Aggregate Base,	70	CU YD
TOTAL ITEM 407 - Tack Coat,	107	GAL
TOTAL ITEM 441 - Asphalt Surface Course, Type 1, (448) PG64-22	68	CU YD

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LOCATION STATION TO STATION	SIDE	LENGTH FEET	BEGIN WIDTH FEET	END WIDTH FEET	AVERAGE WIDTH FEET	ROUTE	ITEM 202 PAVEMENT REMOVED		
							DESCRIPTION	SUBTOTAL	UNIT
41+55 to 42+30	L/R	75.00	7.00	6.00	6.50	239	Widening	54.17	SY
42+30 to 42+76.08	L/R	46.08	24.00	23.50	23.75	239	Full Width	121.60	SY
44+67.95 to 45+04.77	L/R	36.82	29.00	35.50	32.25	239	Full Width	131.94	SY
45+04.77 to 45+89	L/R	84.23	1.00	1.00	1.00	239	Widening	9.36	SY
TOTAL ITEM 202 - Pavement Removed,								318	SQ YD

*CADD Calculated area.

LOCATION STATION TO STATION	SIDE	LENGTH FEET	BEGIN WIDTH FEET	END WIDTH FEET	STEP WIDTH FEET	AVG WIDTH FEET	ROUTE	ITEM 204 SUBGRADE COMPACTION		
								DESCRIPTION	SUBTOTAL	UNIT
41+55 to 42+30	L/R	75.00	7.00	12.00	3.0	12.50	239	Widening	104.17	SY
42+30 to 42+67.71	L/R	37.71	30.00	30.00	3.0	33.00	239	Full Width	138.27	SY
44+76.32 to 45+04.77	L/R	28.45	34.00	39.00	1.5	38.00	239	Full Width	120.12	SY
45+04.77 to 45+89	R	84.23	4.00	2.00	1.5	4.50	239	Widening	42.11	SY
TOTAL ITEM 204 - Subgrade Compaction,								405	SQ YD	

*CADD Calculated area.

LOCATION STATION TO STATION	SIDE	LENGTH FEET	BEGIN WIDTH FEET	END WIDTH FEET	AVG WIDTH	ROUTE	ITEM 254 PAVEMENT PLANING		
							DESCRIPTION	SUBTOTAL	UNIT
41+55 to 42+30	L/R	75.00	17.50	18.00	17.75	239	Widening	147.92	SY
44+69.23 to 45+89	L/R	119.77	2849.00		SF*	239	Intersection	316.56	SY
TOTAL ITEM 254 - Pavement Planing								465	SY

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LOCATION STATION TO STATION	SIDE	LENGTH FEET	BEGIN WIDTH FEET	END WIDTH FEET	STEP WIDTH INCH	AVG W FEET	T INCH	ROUTE	ITEM 301 ASPHALT CONCRETE BASE, PG64-22		
									DESCRIPTION	SUBTOTAL	UNIT
41+55 to 42+30	L/R	75.00	7.00	12.00	8	10.17	7	239	Widening	16.47	CY
42+30 to 42+67.71	L/R	37.71	30.00	30.00	8	30.67	7	239	Full Width	24.98	CY
44+76.32 to 45+04.77	L/R	28.45	34.00	39.00	4	36.83	7	239	Full Width	22.64	CY
45+04.77 to 45+89	R	84.23	4.00	2.00	4	3.33	7	239	Widening	6.07	CY
TOTAL ITEM 301 - Asphalt Concrete Base, PG64-22,										71	CU YD

*CADD Calculated area.

LOCATION STATION TO STATION	SIDE	LENGTH FEET	BEGIN WIDTH FEET	END WIDTH FEET	STEP WIDTH INCH	AVG W FEET	T INCH	ROUTE	ITEM 304 AGGREGATE BASE		
									DESCRIPTION	SUBTOTAL	UNIT
41+55 to 42+30	L/R	75.00	7.00	12.00	22	11.33	6	239	Widening	15.74	CY
42+30 to 42+62.10	L/R	32.10	30.00	30.00	22	31.83	6	239	Full Width	18.92	CY
44+81.54 to 45+04.77	L/R	23.23	34.00	39.00	11	37.42	6	239	Full Width	16.10	CY
45+04.77 to 45+89	R	84.23	4.00	2.00	11	3.92	6	239	Widening	6.11	CY
41+55 to 42+84	R	128.64	4.00	4.00	0	4.00	8	239	Commerical Drive	12.71	CY
TOTAL ITEM 304 - Aggregate Base,										70	CU YD

*CADD Calculated area.

LOCATION STATION TO STATION	SIDE	LENGTH FEET	BEGIN WIDTH FEET	END WIDTH FEET	AVG WIDTH FEET	APPL RATE G/SY	ROUTE	ITEM 407 TACK COAT		
								DESCRIPTION	SUBTOTAL	UNIT
41+55 to 42+30	L/R	75.00	24.50	30.00	27.25	0.085	239	441 Surface Crs. 1st Lift	19.30	GAL
42+30 to 42+67.71	L/R	37.71	30.00	30.00	30.00	0.055	239	441 Surface Crs. 1st Lift	6.91	GAL
44+76.32 to 45+04.77	L/R	28.45	34.00	39.00	36.50	0.055	239	441 Surface Crs. 1st Lift	6.35	GAL
45+04.77 to 45+89	L/R	84.23	3074.00		SF*	0.085	239	441 Surface Crs. 1st Lift	29.03	GAL
41+55 to 42+30	L/R	75.00	24.50	30.00	27.25	0.055	239	441 Surface Crs. 2nd Lift	12.49	GAL
42+30 to 42+67.71	L/R	37.71	30.00	30.00	30.00	0.055	239	441 Surface Crs. 2nd Lift	6.91	GAL
44+76.32 to 45+89	L/R	112.68	4140.00		SF*	0.055	239	441 Surface Crs. 2nd Lift	25.30	GAL
TOTAL ITEM 407 - Tack Coat,									107	GAL

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LOCATION STATION TO STATION	SIDE	LENGTH FEET	BEGIN WIDTH FEET	END WIDTH FEET	AVG WIDTH FEET	T INCH	ROUTE	ITEM 441 ASPH. SURFACE, TYPE 1, (448) PG64-22		
								DESCRIPTION	SUBTOTAL	UNIT
41+55 to 42+30	L/R	75.00	24.50	30.00	27.25	3	239		18.92	CY
42+30 to 42+67.71	L/R	37.71	30.00	30.00	30.00	3	239		10.48	CY
44+76.32 to 45+89	L/R	112.68	4140.00		SF*	3	239	Intersection	38.33	CY
TOTAL ITEM 441 - Asphalt Surface Course, Type 1, (448) PG64-22									68	CU YD

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