FHWA REG. NO.	STATE	PROJECT NO.:	YEAR	SHEET NUMBER	TOTAL SHEETS
7	KANSAS	87 N-0099-01	1999	14	68

REMOVAL OF EXISTING STRUCTURES

Sta. 0+711, Lt.	Storm Sewer Manhole	Non-Participating
Sta. 0+717, Lt. & Rt.	Storm Sewer Inlets	
Sta. 0+754, Lt.	Storm Sewer Manhole	
Sta. 0+711, Lt. to 1+078, Lt.	Storm Sewer Pipe (367 m)	
Sta. 0+855, Lt.	Storm Sewer Manhole	Participating
Sta. 0+850, Rt.	Storm Sewer Inlet	
Sta. 0+863, Rt.	Storm Sewer Inlet	
Sta. 1+000	Traffic Signal System	
MAPLE:		
Sta. 4+887, Lt.	Tree	
Sta. 4+888, Lt.	Storm Sewer Inlet	
Sta. 4+906, Rt.	Storm Sewer Inlet	
Sta. 5+035, Rt.	Storm Sewer Inlet	
Sta. 5+041, Lt.	Storm Sewer Inlet	
Sta. 5+107, Lt.	Storm Sewer Inlet	
Sta. 5+116, Rt.	Storm Sewer Inlet	

EARTHWORK SUMMARY

LOCATION	EXCAVATION COMMON CU.M.	VMF	ROCK CU.M.	VMF	COMPACTION
Maple	1,408	0.8	807	1.0	
Seneca 1	640	0.8	405	1.0	
Seneca 2	765	0.8	919	1.0	
TOTAL	2,813 **		2,131 **		

Seneca 1 is non-participating (Sta. 0+726.072 to Sta. 0+856.617)
** To be wasted

CRUSHED STONE SUBGRADE & GEOGRID REINFORCEMENT (FOR BASE)

LOCATION	CRUSHED STONE SUBGRADE S.M.	GEOGRID REINFORCEMENT (FOR BASE) S.M.
Sta. 0+704.821 to Sta. 0+856.617 *	2,855.0	2,855.0
Sta. 0+856.617 to Sta. 1+078.000	4,118.3	4,118.3
Sta. 4+849.984 to Sta. 5+146.780 (Maple)	4,813.5	4,813.5
TOTAL	11,784.8	11,784.8

* Non-Participating

PAVING BRICK

LOCATION	S.M.
Intersection of Seneca & Maple	612.9
TOTAL	612.9*

* Non-Participating

ADJUSTMENT OF MANHOLES

STATION	SIDE
0+710.925 *	Lt.
4+947.4	Lt.
TOTAL	2

* Non-Participating

RECAPITULATION OF ROAD QUANTITIES

ITEM	UNIT	PARTICIPATING	NON-PARTICIPATING	TOTAL QUANTITY
CLEARING AND GRUBBING	L.S.	80%	20%	L.S.
REMOVAL OF EXISTING STRUCTURES	L.S.	80%	20%	L.S.
COMMON EXCAVATION	Cu.M.	2,173	640	2,813
ROCK EXCAVATION	Cu.M.	1,726	405	2,131
CRUSHED STONE SUBGRADE (150MM)	Sq.M.	8,930	2,855	11,785
GEOGRID REINFORCEMENT (FOR BASE)	Sq.M.	8,930	2,855	11,785
1500 mm RCP (Storm Sewer)	L.M.		279.7	279.7
900 mm RCP (Storm Sewer)	L.M.		88.8	88.8
600 mm RCP (Storm Sewer)	L.M.	92.0		92.0
450 mm RCP (Storm Sewer)	L.M.	35.2		35.2
375 mm RCP (Storm Sewer)	L.M.	46.2		46.2
R.C. Manhole	Each		5	5
Type 'I' Inlet	Each	10		10
WATER (GRADING) (SET)	M g	1		1
ADJUSTMENT OF MANHOLES	EA	1	1	2
CURB & GUTTER, COMBINED (AE)	M.	1,209.3	450.9	1,660.2
CURB, EDGE (150MM) (AE)	M.	136.3	42.5	178.8
CURB, PROTECTION (SPECIAL) (AE)	M.	15.0		15.0
SIDEWALK CONST. (100MM) (AE)	S.M.	1,304.5	352.5	1,657
CONC. PAVEMENT (200MM-UNIF.) (AE) (PL)	S.M.	407.1	82.4	490
CONC. PAVEMENT (160MM-UNIF.) (AE) (PL)	S.M.	899.3	87.6	987
CONC. PAVMENT (200MM-UNIF.) (AE) (NRDJ)	S.M.	2,666.3	2,044.2	4,711
CONC. PAVMENT (260MM-UNIF.) (AE) (NRDJ)	S.M.	1,051.8	765.6	1,817
CONC. PAVMENT (160MM-UNIF.) (AE)	S.M.	613		613
MONUMENT BOX (INSTALLATION ONLY)	EA	1		1
PAVING BRICK	SM		613	613
MOBILIZATION	L.S.	1	0	L.S.
TEMPORARY SURFACING MATERIAL (SET)	C.M.	1	0	1
FIELD OFFICE & LAB, TYPE A	Each	1	0	1
MOBILIZATION (OBE)	L.S.	100%		L.S.
FOUNDATION STABILIZATION (SET)	CU. M.	1	0	1
CONCRETE FOR SEAL COURSE (SET)	CU. M.	1	0	1
CONCRETE CORES (SET)	Each	1	0	1
RESTORATION AND MAINTENANCE OF HAUL ROADS	L.S.	100%	0	L.S.
TRAINEE (HIGHWAY CONSTRUCTION) (2) (SET)	HOURS	1	0	L.S.
ELECTRIC CONDUIT, 50 MM, NON-METTALIC	L.M.		630.6	630.6
SCREW-IN FOUNDATION ANCHOR	Each		8	8

FOR CONSTRUCTION TRAFFIC CONTROL QUANTITIES, SEE SHEET 56

FOR BITUMINOUS SURFACING QUANTITIES, SEE SHEET 15

FOR SEEDING QUANTITIES, SEE SHEET 21

FOR PAVEMENT MARKING QUANTITIES, SEE SHEET 48

FOR TRAFFIC SIGNAL QUANTITIES, SEE SHEET 34

FOR WATER POLLUTION CONTROL SOIL EROSION, SEE SHEET 16

FOR STORM SEWER QUANTITIES, SEE SHEET 32

* Non-Participating

CONC. PAVEMENT (200 mm 160 mm -UNIF.) (AE) (PLAIN)

STATION	SIDE	TYPE	WIDTH (W) M.	LENGTH (P) M.	160MM S.M.	200MM
SENECA:						
Sta. 0+751.635	Lt.		4.0	3.554	25.51*	
Sta. 0+762.400	Rt.		7.4	2.792	27.77*	
Sta. 0+777.933	Lt.		12.2	3.554		54.66*
Sta. 0+803.600	Rt.		3.6	2.792	17.16*	
Sta. 0+823.400	Lt.		7.4	2.792		27.77*
Sta. 0+827.000	Rt.		3.6	2.792	17.16*	
Sta. 0+877.288	Rt.		8.5	2.792		30.84
Sta. 0+938.900	Rt.		8.2	2.792		30.00
Sta. 0+955.733	Rt.		9.0	2.792		32.23
Sta. 0+973.574	Lt.		8.0	2.792		29.44
Sta. 1+038.017	Lt.		9.2	2.792		32.79
Sta. 1+049.430	Rt.		4.6	3.321	23.73	
Sta. 1+058.570	Lt.		4.6	3.743	26.74	
Sta. 1+067.417	Rt.		6.2	4.153	36.32	
Sta. 1+075.50	Lt.		3.7	4.526	27.82	
MAPLE:						
STA. 4+856.000	Rt.		7.6	4.912		58.10
Sta. 4+859.722	Lt.		7.2	4.751	52.09	
Sta. 4+897.492	Rt.		5.3	3.117		25.41
Sta. 4+931.840	Lt.		8.0	2.792		23.86
Sta. 4+947.490	Lt.		4.6	2.792		19.95
Sta. 4+956.607	Lt.		9.2	2.792		32.79
Sta. 5+054.082	Rt.		4.4	2.792	19.39	
Sta. 5+061.918	Rt.		4.4	2.792		19.39
Sta. 5+065.228	Lt.		8.5	2.792	30.84	
Sta. 5+087.662	Rt.		8.0	3.344		38.89
Sta. 5+080.258	Lt.		5.6	3.459	30.14	
Sta. 5+103.585	Rt.		5.8	4.042		37.42
Sta. 5+139.030	Lt.		3.0	5.593	39.29	
Conc. Base under Paving Brick at intersection of Seneca & Maple					612.9	
TOTAL					986.86	489.54

CONC. PAVEMENT 160 MM (UNIF.) (AE)

LOCATION	S.M.
Intersection of Seneca & Maple (Under Paving Brick)	612.9
TOTAL	612.9*

* Non-Participating

LOCATION	CONC. PAVEMENT (260MM-UNIF.) (AE) (NRDJ) S.M.	CONC. PAVEMENT (200MM-UNIF.) (AE) (NRDJ) S.M.
Intersection of Seneca & University	695.1 *	
Intersection of Seneca & Mentor	141.0 /	
Intersection of Seneca & Maple	766.6	
Intersection of Maple & Dodge	140.1	
Intersection of Maple & Walnut	74.6	
SENECA STREET		
Sta. 0+726.072 to Sta. 0+856.617		2,044.2 *
Sta. 0+856.617 to Sta. 1+078.000		2,666.3
TOTAL	1,817.4	4,710.5

* Non-Participating
/ 1/2 Non-Participating

CURB AND GUTTER, COMBINED (AE)

FROM STA.	TO STA.	COMBINED C&G (AE) TYPE I M.	COMBINED C&G (AE) TYPE II M.	COMBINED C&G (AE) TYPE III
SENECA				
Left Side				
0+728.072	0+746.885	20.81 *		
0+746.885	0+756.385		9.50 *	
0+756.385	0+769.083	12.70 *		
0+769.083	0+786.783		17.70 *	
0+786.783	0+816.950	30.17 *		
0+816.950	0+829.850		12.90 *	
0+829.850	0+856.617	26.77 *		
0+856.617	0+968.824	110.21		
0+968.824	0+979.802		11.78	
1+020.650	1+030.667	10.02		
1+030.667	1+045.367		14.70	
1+045.367	1+053.520	8.15		
1+053.520	1+063.620		10.10	
1+063.620	1+074.300	10.69		
1+074.300	1+078.000		3.70	
Right Side				
0+728.072	0+755.950	29.88 *		
0+755.950	0+768.850		12.90 *	
0+768.850	0+799.050	30.20 *		
0+799.050	0+831.550		9.10 *	
0+831.550	0+842.356	10.81 *		
0+870.878	0+884.286		13.41	
0+884.286	0+932.050	47.76		
0+932.050	0+945.750		13.70	
0+945.750	0+948.483	2.73		
0+948.483	0+962.983		14.50	
1+020.850	1+044.390	23.73		
1+044.390	1+054.480		10.10	
1+054.480	1+061.587	7.09		
1+061.587	1+073.267		11.70	
1+073.267	1+078.000	4.73		
MIDDLE:				
0+729.182	0+840.00			221.84 *
Median Nose @ Sta. 0+729.182				2.9 *
Median Nose @ Sta. 0+840.000				2.9 *
0+870.428	0+912.50			84.14
Median Nose @ Sta. 0+870.428				2.9
Median Nose @ Sta. 0+912.500				2.9
MAPLE:				
Left Side				
4+849.984	4+853.372	3.39		
4+853.372	4+866.072		12.70	
4+866.072	4+884.475	18.40	11.70	
4+911.591	4+926.090	14.51		
4+926.090	4+937.590		11.50	
4+937.590	4+942.440	4.85		
4+942.440	4+963.957		21.52	
4+963.957	4+978.600	14.64		
5+021.401	5+058.226	36.83		
5+058.226	5+072.226		14.00	
5+072.226	5+084.708	12.48		
5+084.708	5+092.969		8.26	
5+112.394	5+134.780	22.39		
5+134.780	5+143.280		8.50	
5+143.280	5+146.780	3.50		
Right Side				
4+849.984	4+862.550		12.57	
4+862.550	4+892.092	29.54		
4+892.092	4+902.892		10.80	
4+902.892	4+978.600	75.71		
5+021.401	5+049.132	27.73		
5+049.132	5+066.866		17.73	
5+066.866	5+080.872	14.01		
5+080.872	5+094.372		13.50	
5+084.372	5+097.935	3.56		
5+027.935	5+109.235		11.3	
5+109.235	5+146.780	37.55		
TOTAL		705.53	319.87	317.38
			TOTAL	1,660.18

* Non-Participating

SIDEWALK CONST. (100MM) (AE)

LOCATION	SIDEWALK CONST. (100MM) (AE) S.M.
Sta. 0+704.821 to Sta. 0+856.617 *	352.5
Sta. 0+856.617 to Sta. 1+078.000	585.6 **
Sta. 4+849.984 to Sta. 5+146.780 (Maple)	718.9
TOTAL	1,657.0

* Non-Participating
** Includes intersection of Maple & Seneca

MONUMENT BOX (INSTALL ONLY)

LOCATION	QUANTITY EACH
Intersection of Seneca & Maple	1
TOTAL	1

EDGE CURB (150MM) (AE)

LOCATION	M.
Intersection of Seneca & University	28.3 *
Intersection of Seneca & Mentor	28.3 /
Intersection of Seneca & Maple	75.4
Intersection of Maple & Dodge	28.0
Intersection of Maple & Walnut	18.8
TOTAL	178.8

* Non-Participating
/ 1/2 Non-Participating

INLETS AND MANHOLES

STREET	STATION	SIDE	R.C. Manhole Each	Type 'B' Inlet TYPE II Each	Type 'B' Inlet-Manhole Each	
SENECA						
	0+726.072	Lt.	1			*
	0+726.072	Lt.		1		
	0+726.072	Rt.		1		
	0+842.356	Lt.	1			*
	0+842.356	Lt.		1		
	0+842.356	Rt.		1		
	0+990.715	Lt.	1			*
	1+078.000	Lt.	1			*
	1+078.000	Lt.		1		
	1+078.000	Rt.		1		
MAPLE						
	4+940.000	Lt.		1		
	4+940.000	Rt.			1	
	5+030.000	Lt.		1		
	5+030.000	Rt.			1	
TOTAL			4	8	2	

* Non-Participating

SUMMARY OF QUANTITIES

SCALE:	APPROVED:	DRAWN BY:
DATE:		CHECKED:
PROJECT NO:		SHEET NO.:

MUNICIPAL ENGINEERS, P.A.
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