

SHEET NUM.											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
6	7	8	23	24	25	26	80				01/SAF/OT	EXT	TOTAL				
ROADWAY																	
LS											LS	201	11000	LS	CLEARING AND GRUBBING		
			673	282		750					1,705	202	23000	1,705	SY	PAVEMENT REMOVED	
			3,572				200				3,772	202	30000	3,772	SF	WALK REMOVED	
				2							2	202	30600	2	SY	CONCRETE MEDIAN REMOVED	
			66								66	202	30800	66	SY	TRAFFIC ISLAND REMOVED	
				137		144	50				331	202	32000	331	FT	CURB REMOVED	
				1,176		8					1,184	202	32500	1,184	FT	CURB AND GUTTER REMOVED	
					29						29	202	35100	29	FT	PIPE REMOVED, 24" AND UNDER	
			31								31	SPECIAL	20252990	31	EACH	PARKING BLOCK REMOVED	
					1						1	202	58000	1	EACH	MANHOLE REMOVED	
					5						5	202	58100	5	EACH	CATCH BASIN REMOVED	
			1,019								1,019	203	10000	1,019	CY	EXCAVATION	
			70								70	203	20000	70	CY	EMBANKMENT	
				807		504					1,311	204	10000	1,311	SY	SUBGRADE COMPACTION	
135											135	204	13000	135	CY	EXCAVATION OF SUBGRADE	
135											135	204	30010	135	CY	GRANULAR MATERIAL, TYPE B	
270											270	204	50000	270	SY	GEOTEXTILE FABRIC, 712.09, TYPE D	
			6,141				200				6,341	608	10000	6,341	SF	4" CONCRETE WALK	
			2,169								2,169	608	15000	2,169	SF	8" CONCRETE WALK, DRIVEWAYS	
			744				50				794	608	52000	794	SF	CURB RAMP	
1											1	623	39500	1	EACH	MONUMENT BOX ADJUSTED TO GRADE	
	1										1	SPECIAL	69050350	1	EACH	MAILBOX REMOVED AND RESET	
	50										50	SPECIAL	69065000	50	TON	WORK INVOLVING NON-REGULATED MATERIALS	
	50										50	SPECIAL	69065016	50	TON	WORK INVOLVING PETROLEUM CONTAMINATED SOIL	
EROSION CONTROL																	
180											180	659	00300	180	CY	TOPSOIL	
1,600											1,600	659	10000	1,600	SY	SEEDING AND MULCHING	
80											80	659	14000	80	SY	REPAIR SEEDING AND MULCHING	
80											80	659	15000	80	SY	INTER-SEEDING	
0.23											0.23	659	20000	0.23	TON	COMMERCIAL FERTILIZER	
10											10	659	35000	10	MGAL	WATER	
											5,000	832	30000	5,000	EACH	EROSION CONTROL	
DRAINAGE																	
					1,238						1,238	605	11110	1,238	FT	6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, 707.31	
200											200	605	13410	200	FT	6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, 707.31	
50					70						120	611	00510	120	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
					30						30	611	04401	30	FT	12" CONDUIT, TYPE B, AS PER PLAN	
					2						2	611	98150	2	EACH	CATCH BASIN, NO. 3	
					2						2	611	98370	2	EACH	CATCH BASIN, NO. 6	
1					1						2	611	98630	2	EACH	CATCH BASIN ADJUSTED TO GRADE	
					1						1	611	98631	1	EACH	CATCH BASIN ADJUSTED TO GRADE, AS PER PLAN, WITH NEW BEEHIVE GRATE	
					1						1	611	98631	1	EACH	CATCH BASIN ADJUSTED TO GRADE, AS PER PLAN, WITH NEW FLAT GRATE	
					2						2	611	99151	2	EACH	INLET ADJUSTED TO GRADE, AS PER PLAN	
					1						1	611	99575	1	EACH	MANHOLE, NO. 3, AS PER PLAN, 60" DIAMETER, WITH CB FRAME AND GRATE	
14					2						16	611	99654	16	EACH	MANHOLE ADJUSTED TO GRADE	
7					1						8	611	99655	8	EACH	MANHOLE ADJUSTED TO GRADE, AS PER PLAN, WITH NEW FRAME AND COVER	
PAVEMENT																	
		25									25	253	02000	25	CY	PAVEMENT REPAIR	
				9,404							9,404	254	01000	9,404	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.5" THICK	
2				92							94	301	46000	94	CY	ASPHALT CONCRETE BASE, PG64-22	
				123		9					132	304	20000	132	CY	AGGREGATE BASE	
				829							829	407	20000	829	GAL	NON-TRACKING TACK COAT	
						3					3	441	50400	3	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), (DRIVEWAYS)	
											392	442	10001	392	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN, PG76-22M	
					27						27	442	20201	27	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448), AS PER PLAN, PG76-22M	
						413					413	452	12010	413	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P, DRIVEWAYS	
			51								51	609	54000	51	SY	6" CONCRETE TRAFFIC ISLAND	

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6	24	26	63	64	65	75	76	80			01/SAF/OT	EXT	TOTAL					
	129											129	609	96000	129	SY	MEDIAN, MISC.: CITY OF TOLEDO CONCRETE MEDIAN	7
	293											293	609	98000	293	FT	CURB, MISC.: CITY OF TOLEDO CONCRETE CURB AND GUTTER, TYPE B	7
	1,847							100				1,947	609	98000	1,947	FT	CURB, MISC.: CITY OF TOLEDO CONCRETE CURB, TYPE A	7
		117										117	609	98000	117	FT	CURB, MISC.: CITY OF TOLEDO CONCRETE CURB, TYPE C	7
	3,786											3,786	872	10000	3,786	FT	VOID REDUCING ASPHALT MEMBRANE (VRAM)	
																	WATER WORK	
7												7	638	10800	7	EACH	VALVE BOX ADJUSTED TO GRADE	
												LS	SPECIAL	69098400	LS		WATER PERMIT FEES, FIXED LUMP SUM (\$4850.00)	8
																	TRAFFIC CONTROL	
				3								3	620	70000	3	EACH	DELINEATOR, MISC.:HIGH INTENSITY RETRO-REFLECTIVE ISLAND BULLNOSE MARKER	7
				154	112							266	630	03101	266	FT	GROUND MOUNTED SUPPORT, NO. 3 POST, AS PER PLAN	7
				6								6	630	08601	6	EACH	SIGN POST REFLECTOR, AS PER PLAN	8
				127	265							392	630	80100	392	SF	SIGN, FLAT SHEET	
				42.5	72.5							115	630	80224	115	SF	SIGN, OVERHEAD EXTRUSHEET	
				1	2							3	630	84511	3	EACH	RIGID OVERHEAD SIGN SUPPORT FOUNDATION, AS PER PLAN	7
				4								4	630	84900	4	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
					1							1	630	85100	1	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
				4								4	630	86002	4	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
				1								1	630	86010	1	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND REERECTION	
				15								15	630	87400	15	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	
				10								10	630	87500	10	EACH	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	
				6								6	630	87520	6	EACH	REMOVAL OF POLE MOUNTED SIGN AND REERECTION	
				3								3	630	89702	3	EACH	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL	
				1	1							2	630	97700	2	EACH	SIGNING, MISC.:OVERHEAD SIGN SUPPORT, CITY OF TOLEDO DESIGN NO. 175 LW	7
												1	630	97700	1	EACH	SIGNING, MISC.:OVERHEAD SIGN SUPPORT, CITY OF TOLEDO DESIGN NO. 205 LW	7
			0.05									0.05	642	00100	0.05	MILE	EDGE LINE, 4", TYPE 1	
			0.48									0.48	642	00200	0.48	MILE	LANE LINE, 4", TYPE 1	
			0.35									0.35	642	00300	0.35	MILE	CENTER LINE, TYPE 1	
			1,252									1,252	644	00400	1,252	FT	CHANNELIZING LINE, 8"	
			142									142	644	00500	142	FT	STOP LINE	
			780									780	644	00600	780	FT	CROSSWALK LINE	8
			610									610	644	00700	610	FT	TRANSVERSE/DIAGONAL LINE, 12"	
			16									16	644	01300	16	EACH	LANE ARROW	
			419									419	644	01500	419	FT	DOTTED LINE, 4"	
				12								12	644	30000	12	FT	REMOVAL OF PAVEMENT MARKING	
																	TRAFFIC SIGNALS	
						186						186	625	25503	186	FT	CONDUIT, 3", 725.05, AS PER PLAN	78
						18						18	625	25603	18	FT	CONDUIT, 4", 725.05, AS PER PLAN	78
						319						319	625	25901	319	FT	CONDUIT, JACKED OR DRILLED, AS PER PLAN, 4"	78
						186						186	625	29001	186	FT	TRENCH, AS PER PLAN	78
						2						2	625	31510	2	EACH	PULL BOX REMOVED	
						4		1				5	625	31600	5	EACH	PULL BOX, MISC.: PULL BOX, TYPE A	78
						2		1				3	625	31600	3	EACH	PULL BOX, MISC.: PULL BOX, TYPE S	78
						9		2				11	625	32001	11	EACH	GROUND ROD, AS PER PLAN	78
						186						186	625	36010	186	FT	UNDERGROUND WARNING/MARKING TAPE	
						1						1	625	76000	1	EACH	ARC FLASH CALCULATIONS AND LABEL, SIGNAL CABINET	
						16						16	632	05007	16	EACH	VEHICULAR SIGNAL HEAD, (LED), 3-SECTION, 12" LENS, 1-WAY, POLYCARBONATE, AS PER PLAN, BLACK	79
						8						8	632	20731	8	EACH	PEDESTRIAN SIGNAL HEAD (LED), TYPE D2, COUNTDOWN, AS PER PLAN	78
						1,821						1,821	632	40501	1,821	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG, AS PER PLAN	79
						254						254	632	41001	254	FT	SIGNAL CABLE, 10 CONDUCTOR, NO. 14 AWG, AS PER PLAN	79
						634						634	632	43300	634	FT	SIGNAL CABLE, MISC.: SIGNAL CABLE, 12 CONDUCTOR, NO. 14 AWG, AS PER PLAN	79
								1				1	632	62820	1	EACH	INTERCONNECT, MISC.: FAN-OUT KIT, 6-FIBER, 12-FIBER, AS PER PLAN	81
								1				1	632	62820	1	EACH	INTERCONNECT, MISC.: SPLICE ENCLOSURE (UNDER GRADE), AS PER PLAN	81
								3				3	632	64011	3	EACH	SIGNAL SUPPORT FOUNDATION, AS PER PLAN	79
						4						4	632	64020	4	EACH	PEDESTAL FOUNDATION	
								106				106	632	67190	106	FT	POWER CABLE, 1 CONDUCTOR, NO. 8 AWG	

GENERAL SUMMARY

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SHEET NO.	REF NO.	STATION TO STATION			SIDE	202	202	202	SPECIAL	608	608	608	609		203	203							
						PAVEMENT REMOVED SY	WALK REMOVED SF	TRAFFIC ISLAND REMOVED SY	PARKING BLOCK REMOVED EACH	4" CONCRETE WALK SF	8" CONCRETE WALK, DRIVEWAYS SF	CURB RAMP SF	6" CONCRETE TRAFFIC ISLAND SY	EXCAVATION CY	EMBANKMENT CY								
U.S. 20 (REYNOLDS RD.)																							
27	R-1	870+93.53	TO	871+03.33	RT		91																
27	W-1	870+93.53	TO	871+24.03	RT						269												
HEATHERDOWNS BLVD.																							
28	R-2	95+50.00	TO	95+87.70	LT		135																
28-29	R-3	96+19.56	TO	98+55.51	LT		922																
29	R-4	98+88.16	TO	99+33.85	LT		106	66															
29-30	R-5	100+24.75	TO	102+73.72	LT		1717																
29	R-6	100+67.00	TO	100+91.00	LT	81																	
29-30	R-7	101+38.00	TO	102+61.00	RT	159																	
29-30	R-8	101+43.53	TO	102+39.78	RT			10															
30	R-9	103+13.31	TO	103+24.00	LT		35																
30	R-10	103+14.00	TO	105+43.00	RT	294																	
30	R-11	103+26.00	TO	104+69.00	LT	139																	
30	R-12	103+35.41	TO	105+29.68	RT			21															
30	R-13	105+21.18	TO	105+92.41	LT		293																
30	R-14	106+27.90	TO	106+60.00	LT		127																
28	W-2	95+50.00	TO	95+82.00	LT				171														
28	W-3	95+82.00	TO	96+25.00	LT					258													
28	W-4	96+25.00	TO	96+51.00	LT				156														
28	W-5	96+51.00	TO	96+91.00	LT					241													
28-29	W-6	96+91.00	TO	98+55.51	LT				975														
29	W-7	98+91.54	TO	99+33.71	LT							89			51								
29	W-8	100+23.75	TO	100+40.12	RT		89		89														
29	W-9	100+23.98	TO	100+61.04	LT				83	455													
29	W-10	100+42.89	TO	100+50.80	RT		57		37	20													
29	W-11	100+61.04	TO	101+35.00	LT				444														
29-30	W-12	101+04.79	TO	102+50.00	RT				919														
29	W-13	101+35.00	TO	101+83.00	LT					289													
29-30	W-14	101+83.00	TO	102+72.00	LT				534														
30	W-15	102+50.00	TO	103+25.00	RT					451													
30	W-16	102+72.00	TO	103+14.00	LT					252													
30	W-17	103+14.00	TO	103+40.00	LT				156														
30	W-18	103+25.00	TO	105+39.00	RT				1269														
30	W-19	103+40.00	TO	103+71.00	LT					186													
30	W-20	103+71.00	TO	104+63.00	LT				552														
30	W-21	104+63.00	TO	105+02.00	LT					234													
30	W-22	105+02.00	TO	105+89.00	LT				522														
30	W-23	105+89.00	TO	106+32.00	LT					258													
30	W-24	106+32.00	TO	106+60.00	LT				145														
37		95+78.54	TO	96+00.00										21									
38		96+04.36	TO	96+50.00										39									
29		96+56.77	TO	97+00.00										37									
40		97+43.31	TO	97+79.06										41									
41		97+90.92	TO	98+04.46										46									
45		100+00.00	TO	100+50.00										20									
46		101+00.00	TO	102+00.00										181	12								
47		102+50.00	TO	103+00.00										200	3								
48		103+50.00	TO	104+21.53										222	10								
49		104+31.15	TO	104+50.00										55	19								
50		104+84.51	TO	105+29.12										55	18								
51		105+33.08	TO	106+00.00										74	8								
52		106+19.07	TO	106+92.12										28									
TOTALS CARRIED TO GENERAL SUMMARY						673	3572	66	31	6141	2169	744	51	1019	70								

ROADWAY SUBSUMMARY

DESIGN AGENCY



DESIGNER
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STATION RANGE	TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	202	202	202	202	204	254	301	304	407	442	442	609	609	609	872					
							PAVEMENT REMOVED	CONCRETE MEDIAN REMOVED	CURB REMOVED	CURB AND GUTTER REMOVED	SUBGRADE COMPACTION	PAVEMENT PLANING, ASPHALT CONCRETE, 1.5" THICK	ASPHALT CONCRETE BASE, PG64-22	AGGREGATE BASE	NON-TRACKING TACK COAT	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN, PG76-22M	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448), AS PER PLAN, PG76-22M	MEDIAN, MISC.: CITY OF TOLEDO CONCRETE MEDIAN	CURB, MISC.: CITY OF TOLEDO CONCRETE CURB, TYPE A	CURB, MISC.: CITY OF TOLEDO CONCRETE CURB AND GUTTER, TYPE B	VOID REDUCING ASPHALT MEMBRANE (VRAM)					
U.S. 20 (REYNOLDS RD.)							SY	SY	FT	FT	SY	SY	CY	CY	GAL	CY	CY	SY	FT	FT	FT					
870+92.00	TO	873+05.00	RT	213.00		1563						1563.00			132.86	65.13									426.00	
870+92.00	TO	871+59.00	RT	67.00		172	172.00		91.00	13.00									57.00	13.00						
871+26.00	TO	873+02.00	RT	176.00		49		2.00										49.00								
HEATHERDOWNS BLVD.																										
95+35.00	TO	106+55.00	BOTH	1120.00		7841						7841.00			666.49	326.71									3360.00	
95+65.00	TO	98+45.00	LT	280.00	1.03	32	32.00			280.00														280.00		
95+65.00	TO	97+48.00	LT	183.00	2.82	57					118.34		9.57	18.03	3.16		2.79									
97+48.00	TO	98+45.00	LT	97.00	4.15	45					77.06		7.46	11.95	2.46		2.18									
98+87.00	TO	98+99.00	LT	12.00	4.42	6	5.89																			
98+87.00	TO	99+34.00	LT	47.00	4.40	23					30.81		3.83	4.70	1.27		1.12									
100+24.00	TO	100+61.00	LT	37.00		8	8.00		46.00																	
100+24.00	TO	100+61.00	LT	37.00		13																				
100+61.00	TO	103+00.00	LT	239.00	5.21	138					6.17		2.17	0.69	0.00		0.63							239.00		
100+61.00	TO	106+52.00	LT	591.00	0.61	40	40.00			591.00			23.07	27.50	7.61		6.73							591.00		
103+00.00	TO	106+52.00	LT	352.00	4.08	159					218.15		26.58	33.10	8.77		7.75							352.00		
100+58.00	TO	102+48.00	RT	190.00	2.00	42												42.00								
101+33.00	TO	102+41.00	RT	108.00	0.80	10	9.56			108.00																
102+53.00	TO	104+25.00	RT	172.00	2.00	38												38.00								
101+33.00	TO	103+00.00	RT	167.00	2.50	46					74.27		7.74	10.83	2.55		2.26							167.00		
103+00.00	TO	105+12.00	RT	212.00	2.90	68					103.66		11.39	15.31	3.76		3.32							212.00		
103+28.00	TO	105+12.00	RT	184.00	0.68	14	13.89			184.00														184.00		
SUBTOTALS							281.34	2.00	137.00	1176.00	806.74	9404.00	91.82	122.10	828.93	391.83	26.78	129.00	1847.00	293.00	3786.00					
TOTALS CARRIED TO GENERAL SUMMARY							282	2	137	1176	807	9404	92	123	829	392	27	129	1847	293	3786					

PAVEMENT SUBSUMMARY

DESIGN AGENCY



DESIGNER
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