

PIPE UNDERDRAINS, 4"					
STATION	TO	STATION	SIDE	PIPE UNDERDRAINS, 4" FOOT	INLET CONNECTION
C.H. 20 (ETNA RD.) LT					
10+44.00	TO	10+89.0	LT	45.00	1
10+91.00	TO	11+04.0	LT	13.00	1
10+06.0	TO	11+19.0	LT	113.00	1
11+21.0	TO	12+59.0	LT	138.00	1
12+61.0	TO	15+89.0	LT	328.00	1
15+91.0	TO	16+04.0	LT	13.00	1
16+06.0	TO	19+94.0	LT	388.00	1
16+96.0	TO	17+99.0	LT	103.00	1
18+01.0	TO	18+74.0	LT	73.00	1
18+76.0	TO	19+44.0	LT	68.00	1
19+46.0	TO	19+94.0	LT	48.00	1
19+96.0	TO	20+24.0	LT	28.00	1
20+26.0	TO	23+14.0	LT	288.00	1
23+16.0	TO	24+49.0	LT	133.00	1
24+51.0	TO	24+84.0	LT	33.00	1
24+86.0	TO	25+24.0	LT	38.00	1
25+26.0	TO	25+84.0	LT	58.00	1
25+86.0	TO	26+34.0	LT	48.00	1
26+36.0	TO	26+64.0	LT	28.00	1
26+66.0	TO	27+14.0	LT	48.00	1
27+16.0	TO	27+64.0	LT	48.00	1
27+66.0	TO	29+49.0	LT	183.00	1
29+51.0	TO	30+49.0	LT	98.00	1
30+51.0	TO	31+74.0	LT	123.00	1
31+76.0	TO	34+99.0	LT	323.00	1
35+01.0	TO	36+49.0	LT	148.00	1
36+51.0	TO	37+99.0	LT	148.00	1
38+01.0	TO	38+49.0	LT	48.00	1
38+51.0	TO	41+34.0	LT	283.00	1
41+36.0	TO	41+99.0	LT	63.00	1
42+01.0	TO	42+58.0	LT	57.00	1
44+24.0	TO	46+74.0	LT	250.00	1
46+76.0	TO	49+24.0	LT	248.00	1
49+26.0	TO	51+74.0	LT	248.00	1
51+76.0	TO	52+99.0	LT	123.00	1
53+01.0	TO	54+99.0	LT	198.00	1
55+01.0	TO	56+74.0	LT	173.00	1
57+76.0	TO	59+24.0	LT	148.00	1
59+26.0	TO	61+14.0	LT	188.00	1
61+16.0	TO	61+49.0	LT	33.00	1
TOTAL				9901.0	71
USE				9901	71
C.H. 20 (ETNA RD.) RT					
10+15.0	TO	11+04.0	RT	89.00	1
11+06.0	TO	11+19.0	RT	13.00	1
11+21.0	TO	13+99.0	RT	278.00	1
14+01.0	TO	16+24.0	RT	223.00	1
16+26.0	TO	18+03.0	RT	177.00	1
18+05.0	TO	19+44.0	RT	139.00	1
19+46.0	TO	19+94.0	RT	48.00	1
19+96.0	TO	23+74.0	RT	378.00	1
23+76.0	TO	25+24.0	RT	148.00	1
25+26.0	TO	25+84.0	RT	58.00	1
25+86.0	TO	26+64.0	RT	78.00	1
28+68.0	TO	30+49.0	RT	181.00	1
30+51.0	TO	31+74.0	RT	123.00	1
31+76.0	TO	31+99.0	RT	23.00	1
32+01.0	TO	32+24.0	RT	23.00	1
32+26.0	TO	34+99.0	RT	273.00	1
35+01.0	TO	36+49.0	RT	148.00	1
36+51.0	TO	37+49.0	RT	98.00	1
37+51.0	TO	37+79.0	RT	28.00	1
37+81.0	TO	38+49.0	RT	68.00	1
38+51.0	TO	42+59.0	RT	408.00	1
42+61.0	TO	44+24.0	RT	163.00	1
44+26.0	TO	46+74.0	RT	248.00	1
46+76.0	TO	49+24.0	RT	248.00	1
49+26.0	TO	51+74.0	RT	248.00	1
51+76.0	TO	52+99.0	RT	123.00	1
54+35.0	TO	54+99.0	RT	64.00	1
55+01.0	TO	56+74.0	RT	173.00	1
56+76.0	TO	59+24.0	RT	248.00	1
59+26.0	TO	61+14.0	RT	188.00	1
61+16.0	TO	61+49.0	RT	33.00	1
TOTAL				9901.0	71
USE				9901	71

*PAYMENT FOR THE CONNECTION OF THE PIPE UNDERDRAINS TO THE INLETS WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF THE INLETS.

FILTER FABRIC - INLET PROTECTION					
STATION	OFFSET	EACH	STATION	OFFSET	EACH
C.H. 20 (ETNA RD.)			C.H. 20 (CHAMPLAIN ST.)		
7+56.0	41.0' RT	1	158+55.0	15.0' LT	1
7+71.0	41.0' RT	1	158+30.0	15.0' RT	1
8+50.0	42.9' RT	1	160+50.0	15.0' LT	1
10+90.0	43.0' LT	1	160+60.0	15.0' RT	1
11+05.0	43.0' LT	1	161+60.0	15.0' LT	1
11+05.0	29.0' RT	1	162+85.0	15.0' LT	1
11+20.0	43.0' LT	1	163+10.0	15.0' LT & RT	2
11+20.0	29.0' RT	1	163+40.0	15.0' LT & RT	2
12+00.0	1.0' RT	1	164+50.0	15.0' LT & RT	2
12+60.0	28.9' RT	1	166+75.0	15.0' LT & RT	2
12+60.0	38.2' LT	1	169+25.0	15.0' LT & RT	2
14+00.0	37.6' RT	1	171+75.0	15.0' LT & RT	2
15+90.0	22.0' LT	1	173+65.0	15.0' LT	1
16+05.0	22.0' LT	1	175+00.0	15.0' LT	1
16+25.0	22.0' RT	1	177+90.0	15.0' LT	1
16+95.0	22.0' LT	1	178+30.0	15.0' LT & RT	2
17+13.0	22.0' RT	1	178+90.0	15.0' LT & RT	2
18+00.0	22.0' LT	1	180+50.0	15.0' LT & RT	2
18+04.0	22.0' RT	1	182+25.0	15.0' LT & RT	2
18+75.0	22.0' LT	1	183+50.0	15.0' LT	1
19+45.0	22.0' LT & RT	2	185+25.0	15.0' LT & RT	2
19+95.0	22.0' LT & RT	2	186+18.0	15.0' RT	1
20+25.0	22.0' LT	1	187+75.0	15.0' LT & RT	2
23+75.0	22.0' LT & RT	2	190+00.0	15.0' LT	1
24+15.0	22.0' LT	1	190+05.0	15.0' RT	1
24+50.0	22.0' LT	1	191+00.0	15.0' RT	1
24+85.0	22.0' LT	1	191+50.0	15.0' LT	1
25+25.0	22.0' LT & RT	2	195+25.0	15.0' LT & RT	2
25+85.0	22.0' LT & RT	2	197+75.0	15.0' LT & RT	2
26+35.0	22.0' LT	1	CENTENNIAL DR.		
26+65.0	22.0' LT & RT	2	900+90.0	38.8' LT	1
27+15.0	22.0' LT	1	900+90.0	16.0' LT & RT	2
27+65.0	22.0' LT	1	901+00.0	16.0' LT & RT	2
29+50.0	22.0' LT	1	TOTAL 134		
30+50.0	22.0' LT & RT	2	USE 134		
31+75.0	22.0' LT & RT	2			
32+00.0	22.0' RT	1			
32+25.0	22.0' RT	1			
34+84.7	41.0' LT	1			
35+00.0	22.0' LT & RT	2			
36+50.0	22.0' LT & RT	2			
37+23.0	39.2' LT	1			
37+50.0	22.0' RT	1			
37+80.0	22.0' RT	1			
38+00.0	22.0' LT	1			
38+50.0	22.0' RT	1			
38+55.0	22.0' LT	1			
39+50.0	22.0' LT	1			
39+65.9	24.9' LT	1			
39+68.8	31.9' LT	1			
39+83.7	31.9' LT	1			
39+86.6	24.9' LT	1			
41+25.0	23.65' LT	1			
41+35.0	22.0' LT	1			
42+00.0	22.0' LT	1			
42+60.0	22.0' LT & RT	2			
44+25.0	22.0' RT	1			
46+75.0	22.0' LT & RT	2			
49+25.0	22.0' LT & RT	2			
51+75.0	22.0' LT & RT	2			
53+00.0	22.0' LT & RT	2			
55+00.0	22.0' LT & RT	2			
56+75.0	22.0' LT & RT	2			
59+25.0	22.0' LT & RT	2			
61+15.0	22.0' LT & RT	2			
61+50.0	22.0' LT & RT	2			

DRAINAGE STRUCTURES TO BE REMOVED				
STATION +/-	OFFSET +/- FT	SIDE	EACH	
C.H. 20 (ETNA RD.)				
10+99.93	31.3	RT	1	
42+78.69	26.1	LT	1	
TOTAL			2	
USE			2	

STORM SEWER REMOVAL																
STATION +/-	OFFSET +/-	SIDE	TO	STATION +/-	OFFSET +/-	SIDE	STORM SEWER SIZE INCH	STORM SEWER REMOVAL FOOT	TRENCH BACKFILL CU YD							
C.H. 20 (ETNA RD.)																
7+58.45	25.4	RT	TO	7+72.01	33.2	RT	15	14.0	1.7							
8+72.13	36.6	RT	TO	8+67.65	52.2	RT	12	16.0	1.9							
9+99.25	76.5	RT	TO	10+07.00	45.1	RT	24	30.0	3.5							
9+99.00	30.0	LT	TO	10+05.00	30.2	LT	12	5.3	1.0							
10+07.00	45.1	RT	TO	10+94.68	31.6	RT	18	92.0	15.4							
11+00.00	31.5	RT	TO	12+70.58	32.2	RT	15	178.0	28.4							
11+87.90	31.3	LT	TO	13+75.37	29.3	LT	12	170.0	23.5							
12+70.58	32.2	RT	TO	13+75.26	29.2	LT	15	120.0	20.0							
13+75.26	29.2	LT	TO	15+50.49	24.8	LT	12	172.0	23.7							
15+50.49	24.8	LT	TO	16+02.03	17.6	LT	10	49.6	6.7							
16+02.03	17.6	LT	TO	15+97.95	17.7	RT	8	35.2	4.9							
18+86.55	36.3	LT	TO	20+02.00	23.9	LT	12	58.2	8.0							
20+02.00	23.9	LT	TO	20+02.00	36.0	LT	12	11.0	1.5							
20+02.00	23.9	LT	TO	19+97.00	17.9	LT	12	7.0	1.0							
20+02.00	23.9	LT	TO	23+52.00	25.7	LT	18	351.0	37.9							
37+42.03	23.1	RT	TO	37+42.03	35.0	RT	8	12.0	1.7							
42+78.59	26.1	LT	TO	43+28.89	24.4	LT	24	47.6	5.5							
43+28.89	24.4	LT	TO	43+34.30	39.9	LT	12	14.0	1.9							
43+28.89	24.4	LT	TO	43+78.83	78.9	LT	12	72.4	9.9							
43+28.94	25.7	LT	TO	43+28.94	87.7	LT	18	62.0	6.5							
53+26.14	26.5	RT	TO	53+58.23	41.7	RT	15	34.3	40.1							
53+58.23	41.7	RT	TO	53+58.23	24.0	LT	18	64.7	6.9							
C.H. 20 (CHAMPLAIN ST.)							161+65.0	28.3	LT	TO	163+24.7	26.1	LT	12	159.7	22.0
TOTAL														1775.9	273.5	
USE														1776	274	

STORM SEWER, RIPRAP & FILTER FABRIC (C.H. 20 (ETNA RD.) DRAINAGE EASEMENT AREA)								
STATION	OFFSET (FT.)	TYPE	STANDARD	STORM SEWER	MANHOLES - TYPE A	PRECAST REINFORCED CONCRETE PIPE TEE, 30" PIPE WITH 18" RISER	STONE RIPRAP, CLASS A4	FILTER FABRIC
				CLASS A, TYPE 1, 30"	8' DIAMETER TYPE 1 FRAME CLID			
				FOOT	EACH		SQ YD	
C.H. 20 (ETNA RD.)								
31+98.20	46.82	RT	MANHOLE	602301, 602601	1			
			SS		388			
31+50.74	238.57	RT	MANHOLE	602301, 602601			21	21
31+52.42	227.83	RT	PIPE TEE	542606		1		
31+58.65	229.50	RT	PIPE TEE	542606		1		
TOTAL				388	1	2	21	21

DRAINAGE STRUCTURES					
STATION / OFFSET	PRECAST CONCRETE BOX CULVERT 5'x4'	BOX CULVERT END SECTION CULVERT NO. 1	BOX CULVERT END SECTION CULVERT NO. 2	STONE RIPRAP CLASS A4	FILTER FABRIC
	FOOT	EACH	EACH	SQ YD	SQ YD
C.H. 20 (CHAMPLAIN ST.)					
163+30.10	56				
LT.			1	72	72
RT.		1			