

CODE	LOCATION	I-1				I-5		
		CI.F-4	CI.I-3 Shallow	CI.I-3 Deep	CI.U-1	CI.I-3 60° Bend	CI.I-3 90° Bend	CI.I-3 Tee
UNDERDRAINS		Lin. Ft.				Each		
U-64	Ramp 14-M Rt. 4+90 to 9+58			468				
U-65	Ramp 14-M Rt. 0+65 to 4+70	7		405			1	
U-66	Ramp 14-SBOR Lt. 0+65(N.M.) to 2+76			595	3			
U-67	S.B. Medina Lt. 920+00 to 923+20			310				
U-69	S.B. Medina Lt. 923+20 to 928+20	4	370	126		1		
U-70	S.B. Medina Lt. 928+20 to 929+50	6	130			1		
U-71	S.B. Medina Lt. 929+50 to 930+00	6	44			1		
U-72	SBOR Rt. 24+60 to 30+11		90	461				
U-73	SBOR Rt. 30+11 to 31+27			116				
U-74	SBOR Lt. 31+27				28		2	
U-75	SBOR Rt. 31+27 to 32+25	10		88				
U-76	Lane M-J Lt. 4+00 to 5+80		180					
U-77	N.B. Jennings Lt. 60+00 to 63+65		355					
U-78	Valentine Ave. Rt. 0+10 to 1+25		85					
U-79	Valentine Ave. Rt. 0+65(N.M.) to 1+25	20	20					
U-80	Valentine Ave. Lt. 0+30 to 1+21		105					
U-81	Valentine Ave. Lt. 1+21 to 1+45		25					
U-113	Lane M-J Lt. 5+25				23		1	
Total		63	1444	2567	51	6	2	

CFN 1972683
SLM 18.12, 15"
SEE SHEET 287

SLM 18.00, 15"
SEE SHEET 286

CFN 1972679
SLM 18.00, 15"
SEE SHEET 297

SLM 18.12, 12"
SEE SHEET 287

SLM 18.12, 15"
SEE SHEET 287

CODE	LOCATION	E-12		I-16		L-10	
		Pipe Removed 15" & Under	Pipe Removed over 15"	M.H. Aband.	C.B. Aband.	Sodding	Spec. Slope & Berm Protection
EXISTING STRUCTURES		Lin. Ft.		Each		Sq. Yds.	
E-36	Ramp 14-M Rt. 7+50			1			
E-37	Ramp 14-M Rt. 6+80			1			
E-38	Ramp 14-M Rt. 5+25			1			
E-39	Ramp 14-M Rt. 5+40			1			
E-40	Ramp 14-M Rt. 5+28			1			
E-41	Ramp 14-M Rt. 4+55			1			
E-42	Ramp 14-M Rt. 3+45			1			
E-43	Ramp 14-M Rt. 2+50			1			
E-44	Ramp 14-M Rt. 1+70			1			
E-45	Ramp 14-M Lt. 1+70			1			
E-46	Ramp 14-M Lt. 1+73			1			
E-47	S.B. Medina Lt. 920+80			1			
E-48	S.B. Medina Lt. 922+30			1			
E-49	S.B. Medina Lt. 925+05			1			
E-50	S.B. Medina 925+25 to 28+35 SBOR	203					
E-51	S.B. Medina Rt. 925+25			1			
E-52	S.B. Medina Rt. 925+28			1			
E-53	S.B. Medina Lt. 27+35			1			
E-54	S.B. Medina Lt. 28+15			1			
E-55	S.B. Medina Lt. 28+25			1			
E-56	SBOR Rt. 25+00			1			
E-57	SBOR Rt. 25+05			1			
E-58	SBOR Rt. 24+60			1			
E-59	SBOR Lt. 25+00			1			
E-60	S.B. Medina 922+55	140					
E-61	N.B. Jennings Lt. 62+25			1			
E-62	N.B. Jennings Rt. 62+25			1			
E-63	N.B. Jennings Rt. 62+40			1			
E-64	N.B. Jennings Rt. 63+20			1			
E-65	N.B. Jennings Rt. 63+70 to 66+15	300					
E-66	N.B. Jennings Rt. 64+90			1			
E-67	N.B. Jennings Rt. 66+15			1			
E-68	N.B. Jennings Rt. 66+15 to 68+95	275					
E-69	N.B. Jennings Rt. 68+95			1			
E-70	Valentine Ave. Rt. 0+15			1			
E-71	Valentine Ave. Lt. 0+20			1			
E-72	SBOR 31+20			1			
E-73	SBOR 30+50			1			
E-74	SBOR Lt. 28+35			1			
E-75	SBOR Lt. Rt. 920+80(S.B.M.) to 26+10	785					
E-76	SBOR Rt. 27+20			1			
E-77	SBOR Rt. 26+10			1			
E-78	Ramp 14-M 4+55 to 7+50	300					
DITCH PROTECTION							
D-23	N.B. Jennings Rt. 60+00 to 64+50					140	
D-24	N.B. Jennings Rt. 63+53					30	
D-25	N.B. Jennings Lt. 63+50					16	
Total		1728	275	9	28	140	46

CFN 1972681
SLM 18.00, 15"
SEE SHEET 297

CFN 1972673
SLM 18.00, 15"
SEE SHEET 297

old CFN 180711798
new CFN 1875610
SLM 17.95, 48"
SEE SHEET 285

old CFN 180711797
new CFN 1875609
SLM 17.95, 84"
SEE SHEET 298

old CFN 181761336
new CFN 1803560
SLM 17.95, 84"
SEE SHEET 285

old CFN 181761335
new CFN 1803561
SLM 13.34, 84"
SEE SHEET 285

CFN 181761330
SLM 13.30, 84"
SEE SHEET 262
AND 285

old CFN 180711803
new CFN 1875631
SLM 18.00, 48"
SEE SHEET 286

old CFN 180711815
new CFN 1875633
SLM 18.12, 48"
SEE SHEET 286

old CFN 180711810
new CFN 1875632
SLM 18.10, 48"
SEE SHEET 286

SCALE 1" = 50'
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY CLEVELAND NEW YORK

SCALE IN FEET
100 50 0 50 100

- DRAINAGE LEGEND**
- PROPOSED STORM SEWER MANHOLE
 - PROPOSED SANITARY MANHOLE
 - PROPOSED PAVED SHOULDER INLET
 - PROPOSED DITCH CATCH BASIN
 - ▒ PROPOSED PAVEMENT CATCH BASIN
 - PROPOSED STORM OR SANITARY SEWER
 - EXISTING MANHOLE
 - EXISTING CATCH BASIN
 - EXISTING STORM OR SANITARY SEWER
 - ▒ JUTE MATTING
 - ▒ SODDED DITCH

STORM SEWER RADIUS PIPE CURVE DATA

(P-76) & (P-187)
PI. Sta. 920+53 @ S.B. Medina - 34' Lt.
Δ = 82°00'00"
R = 70.00'
T = 60.85'
L = 100.18'

(P-74)
PI. Sta. 60+00 @ N.B. Jennings - 47' Rt.
Δ = 62°00'00"
R = 50.00'
T = 30.04'
L = 54.10'