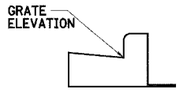
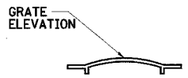
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	27-1R	ST. CLAIR	382	112
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

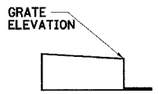
CONTRACT NO. 76300



FRAME AND GRATE TYPE 3



FRAME AND GRATE TYPE 8



FRAME AND GRATE TYPE 24

GRATE ELEVATION DETAILS

STORM SEWERS - CULVERTS - PAVED DITCH

STRUCTURE NUMBER	BASELINE	STATION	OFFSET	TO STATION	OFFSET	SLOPE %	UPSTREAM ELEVATION	DOWNSTREAM ELEVATION	STORM SEWERS TYPE 1 CLASS IV 12" RCP FOOT	24" RCP FOOT	23"x14" RCEP FOOT	38"x24" RCEP FOOT	PIPE CULVERT CLASS C TYPE 1 15" HDPE FOOT	PRECAST CONCRETE BOX CULVERT 4'x2' PCBC FOOT	6'x2' PCBC FOOT	6'x2'x4'x2' PCBC REDUCER FOOT	PAVED DITCH (MODIFIED) FOOT	C.L.S.M. CU YD	POUROUS GRANULAR BACKFILL CU YD
1-2	MAINLINE	320+91.22	46.46' LT.	322+20.00	27.50' LT.	0.99	517.37	516.12						125				12	
2-3	MAINLINE	322+20.00	27.50' LT.	324+50.00	27.50' LT.	0.60	516.12	514.77						223				45	45
3-4	MAINLINE	324+50.00	27.50' LT.	326+05.00	27.50' LT.	0.60	514.77	513.86						134				60	
3A-3	MAINLINE	324+50.00	27.50' LT.	324+50.00	36.00' LT.	1.00	515.30	515.25	5										
4A-4	MAINLINE	325+86.68	39.77' LT.	325+86.68	28.77' LT.	31.88	518.20	515.65					8						
4-5	MAINLINE	326+05.00	27.50' LT.	327+25.00	27.50' LT.	0.30	513.86	513.51						136				40	
6-5	MAINLINE	327+25.00	35.00' LT.	327+25.00	27.50' LT.	1.00	513.58	513.51	4										
5-7	MAINLINE	327+25.00	27.50' LT.	327+96.86	27.63' LT.	0.30	513.51	513.33						71				7	8
7-8	MAINLINE	327+96.86	27.63' LT.	328+40.69	40.50' RT.	0.30	513.33	513.07						81				14	12
8-9	MAINLINE	328+40.69	40.50' RT.	328+50.14	52.03 RT.	0.30	513.07	513.02		15									
9B-10	MAINLINE	328+51.09	58.83' RT.	329+71.15	53.43 RT.	0.32	513.02	512.64									120		
9A-9B	MAINLINE	327+81.18	61.97' RT.	328+51.09	58.83' RT.	1.47	514.05	513.02									70		
10-16A	MAINLINE	329+71.15	53.43' RT.	333+70.16	45.85' RT.	0.30	512.64	511.45							408			37	
11-11A	MAINLINE	331+10.00	34.03' RT.	331+10.00	47.80' RT.	1.00	512.88	512.72	14									1	
13-13A	MAINLINE	332+10.00	31.64' RT.	332+10.00	45.90' RT.	1.00	512.57	512.42	14									1	
13C-13D	MAINLINE	332+10.00	57.00' RT.	332+10.00	51.89' RT.	1.00	512.54	512.43	4										
14-14A	MAINLINE	333+27.00	29.21' RT.	333+27.00	43.68' RT.	1.00	512.23	512.07	14									1	
16A-16	MAINLINE	333+70.16	45.85' RT.	333+79.02	45.66' RT.	0.30	511.45	511.42								8			
17-18	MAINLINE	328+75.00	36.00' LT.	329+00.00	26.48' LT.	0.30	513.67	513.59			24							1	
18-19	MAINLINE	329+00.00	26.48' LT.	329+90.00	26.48' LT.	0.30	513.59	513.32			88							9	
20-19	MAINLINE	329+90.00	36.00' LT.	329+90.00	26.48' LT.	1.00	513.41	513.32	5										
19-21	MAINLINE	329+90.00	26.48' LT.	331+75.00	25.91' LT.	0.30	513.32	512.76			183							10	3
22-21	MAINLINE	331+75.00	37.02' LT.	331+75.00	25.91' LT.	1.00	512.79	512.76	9									1	
21-23	MAINLINE	331+75.00	25.91' LT.	333+84.95	30.00' LT.	0.55	512.76	511.61			208							20	6
23-24	MAINLINE	333+84.95	30.00' LT.	334+40.00	26.14' LT.	0.92	512.12	511.61					52					7	
24A-23A	MAINLINE	334+13.86	39.86' LT.	334+13.11	28.20' LT.	3.51	512.28	511.87					12						
16-16B	MAINLINE	333+79.02	45.66' RT.	334+15.73	91.46' RT.	0.40	511.42	511.18									60		
23-26	MAINLINE	333+84.95	30.00' LT.	333+84.95	30.00' RT.	0.30	511.61	511.43				57						3	6
26-25	MAINLINE	333+84.95	30.00' RT.	333+84.96	37.11' RT.	0.30	511.43	511.41				7							
28-26	MAINLINE	334+24.42	27.94' RT.	333+84.95	30.00' RT.	0.30	511.55	511.43	37									6	
29-28	MAINLINE	335+13.82	26.14' RT.	334+24.45	27.59' RT.	0.30	511.82	511.55	89									11	
TOTALS									195	15	503	64	72 **	760	408	8***	250	286	80

STORM SEWER - STRUCTURES / END SECTIONS

STRUCTURE NUMBER	BASELINE	STATION	OFFSET	INLET TYPE B 3' DIA. EACH	MANHOLE TYPE A 4' DIA. EACH	MANHOLE TYPE A 6' DIA. EACH	INLET TYPE B MEDIAN INLET 604106 EACH	TOP OF CURB ELEVATION	INVERT ELEVATION	TOP OF LID ELEVATION	TYPE 1 FRAME & CLOSED LID EACH	TYPE 3 FRAME & GRATE EACH	TYPE 8 GRATE EACH	TYPE 24 FRAME & GRATE EACH	GRATE ELEVATION	CONCRETE STRUCTURES CU YD	REINFORCEMENT BARS POUND	BOX CULVERT END SECTION PAY ITEM NO.	CAST-IN-PLACE RC END SEC 24" EACH	CAST-IN-PLACE RC END SEC 30" EACH	30" EQUIV.
1	MAINLINE	320+91.22	46.46' LT.						517.37							1.2 *	65 *	9			
2	MAINLINE	322+20.00	27.50' LT.			1		522.43	516.12			1			521.84						
3	MAINLINE	324+50.00	27.50' LT.			1		521.08	514.77			1			520.50						
3A	MAINLINE	324+50.00	36.00' LT.	1					515.30				1		519.55						
4	MAINLINE	325+86.69	27.50' LT.			1		520.28	513.97			1			519.70						
5	MAINLINE	327+25.00	27.50' LT.			1		519.47	513.51			1			518.89						
6	MAINLINE	327+25.00	35.00' LT.	1					513.58				1		518.17						
7	MAINLINE	327+96.86	27.63' LT.			1		519.30	513.33	519.03	1										
8	MAINLINE	328+40.69	40.50' RT.			1		519.38	513.07	518.82	1										
9	MAINLINE	328+50.14	52.03' RT.						513.02							1.4 *	80 *		1		
10	MAINLINE	329+71.15	53.43' RT.						512.64							1.6 *	90 *	10			
11	MAINLINE	331+10.00	34.03' RT.	1				517.06	512.88			1			516.48						
12	MAINLINE	331+10.00	50.79' RT.						512.23	516.72	1										
13	MAINLINE	332+10.00	31.64' RT.	1				516.93	512.57			1			516.34						
13B	MAINLINE	332+10.00	48.89' RT.						511.93	516.36	1										
13C	MAINLINE	332+10.00	57.00' RT.	1					512.54				1		515.00						
14	MAINLINE	333+27.00	29.21' RT.	1				516.77	512.23			1			516.18						
15	MAINLINE	333+27.00	46.67' RT.						511.59	516.21	1										
16	MAINLINE	333+79.02	45.66' RT.						511.42							1.7 *	95 *	11			
17	MAINLINE	328+75.00	36.00' LT.	1					513.67				1		517.17						
18	MAINLINE	329+00.00	26.48' LT.		1			518.35	513.59			1			517.77						
19	MAINLINE	329+90.00	26.48' LT.		1			517.67	513.32			1			517.09						
20	MAINLINE	329+90.00	36.00' LT.	1					513.41				1		516.60						
21	MAINLINE	331+75.00	25.91' LT.		1			517.11	512.76					1	516.61						
22	MAINLINE	331+75.00	37.02' LT.				1		512.79						514.80						
23	MAINLINE	333+84.95	30.00' LT.		1				511.61	515.70	1										
24	MAINLINE	334+40.00	26.14' LT.	1				516.64	512.12			1			516.06						
25	MAINLINE	333+84.96	37.11' RT.						511.41							1.2 *	65 *			1	
26	MAINLINE	333+84.95	30.00' RT.		1			516.34	511.43	516.31	1										
27	MAINLINE	333+84.95	44.35' LT.						512.12												1
28	MAINLINE	334+24.45	27.59' RT.	1				516.64	511.55			1			516.06						
29	MAINLINE	335+13.82	26.14' RT.	1				516.51	511.82			1			515.93						
TOTALS				11	5	6	1				7	12	5	1					1	1	1

NOTES:

- STATION/OFFSET OF HEADWALL IS REFERENCED TO THE FACE OF THE HEADWALL AT THE CENTERLINE OF THE STORM SEWER/CULVERT.

* - QUANTITIES ARE SHOWN FOR INFORMATION PURPOSES ONLY, CAST-IN-PLACE HEADWALLS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR BOX CULVERTS, END SECTIONS AND FOR CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 24" AND 30".

** - PIPE TEE AND CONNECTION TO EXISTING DRAIN PIPE INCLUDED IN PAYMENT FOR 15" HDPE PIPE CULVERT. SEE PLANS FOR LOCATIONS.

*** - REDUCER INCLUDED IN PAYMENT FOR 6'x2' PCBC. SEE PLANS FOR LOCATION.

- C.L.S.M. = CONTROLLED LOW-STRENGTH MATERIAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STORM SEWER SCHEDULES

F.A.P. 103 (IL. RTE. 13/15)
SECTION 27-1R - ST. CLAIR CO.

SCALE: NONE — DRAWN BY BKA
DATE Febuary 11, 2005 — CHECKED BY RCY

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