F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	764	351
STA. 88+60 (SB I-57) STA. 1126+91 (SB FORD) TO STA. 1313+00 (SB RYAN)			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• (1516.1, 1717. & 1818) R-5				62593

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NUMBER	STATION	OFFSET	STRUCTURE TYPE MH	STRUCTURE TYPE CB	DIA.	FRAME & LID	TOP OF FRAME	N INV.	E INV.	S INV.	W INV.
182	1213+76.02	72.0 LT		A	4′	T20 F&G	-0.47		-6.57		-6.57
183	1215+50.04	7.5 RT		A(7)	4′	T20 F&G	0.89		-6.03		-6.03
184	1215+50.57	72.0 LT		A	4′	T20 F&G	0.41	-6.35	-6.35		-6.35
185	1217+23.40	7.5 RT		A(7)	4′	T20 F&G	1.76				-5.42
186	1217+24.74	72.0 LT		A	4′	T20 F&G	1.32		-5.74		-5.74
187	1218+97.11	7.5 RT		A(7)	4′	T20 F&G	2.57				-4.68
188	NOT USED	- -	-	-	-	-	-				
189	1215+65.43	78.1 LT		C	2′	T1F OL	0.15		-6.29		
191	1219+01.42	72.0 LT		A	4′	T20 F&G	2.10		-5.00		-5.00
192	1222+51.63	7.5 RT		A(7)	4′	T20 F&G	2.65				-3.81
193	1224+12.19	7.5 RT		A(7)	4′	T20 F&G	1.92				-5.81
194	1224+11.23	84.0 LT		A	4′	T20 F&G	1.17		-6.18		-6.43
201	1225+71.32	10.0 RT		A(7)	4′	T20 F&G	0.61		-5.24		-5.24
202	1227+25.59	10.0 RT		A(7)	4′	T20 F&G	-0.91				-8.36
203	1227+25.59	72.0 LT		A	4′	T20 F&G	-1.30		-8.69		-9.36 1
204	1228+88.05	10.0 RT		A(7)	4′	T20 F&G	-2.54				-9.90
205	1228+85.75	72.0 LT		A	4′	T20 F&G	-2.87		-10.23		-10.23
206	1230+45.10	10.0 RT		A(7)	4′	T20 F&G	-4.11				-10.27
207	1230+61.54	72.0 LT		A	4′	T20 F&G	-4.62		-10.60		-10.60
208	NOT USED	- -	-	-	-	-	-				
209	1225+62.22	81.4 LT		C	2′	T1F OL	-0.03		-4.54		
2010	1229+99.75	80.5 LT		C	2′	T1F OL	-4.19	-7.69			
211	1235+87.19	77.4 LT	A		5′	T1F CL	-3.28	-12.23		-14.27	
212	1234+31.50	76.8 LT	A		5′	T1F CL	-5.33	-14.95	-14.07	-14.95	-11.83
213	1232+01.40	10.0 RT		A(7)	4′	T20 F&G	-5.67		-11.10		-11.10
214	1232+01.40	72.0 LT		A	4′	T20 F&G	-6.02		-11.43	-11.43	
215	1233+30.69	10.0 RT		A(7)	4′	T20 F&G	-6.92				-12.77
216	1233+30.59	72.0 LT		A	4′	T20 F&G	-7.27	-13.10	-13.10		
217	NOT USED	- -	-	-	-	-	-	-	-	-	-
218	1236+13.19	64.6 LT		A	4′	T20 F&G	-6.28			-12.11	
219	NOT USED	- -	-	-	-	-	-				
2110	1234+80.84	10.0 RT		A(7)	4′	T20 F&G	-7.25	-13.19	-13.19		
2111	1235+15.95	10.0 RT		A(7)	4′	T20 F&G	-7.10			-13.33	-13.33
2112	1235+15.76	75.1 LT		A	4′	T20 F&G	-7.57		-13.67		-14.21 1
2113	1231+60.90	67.0 LT	A		6′	T1F CL	-5.42	-16.68		-16.67	
2114	1234+47.21	72.5 LT		A	4′	T20 F&G	-7.69			-13.77	
2115	1234+37.31	72.0 LT		A	4′	T20 F&G	-7.67	-13.80	-13.80	-13.80	-14.05
2116	1234+27.31	72.0 LT		A	4′	T20 F&G	-7.67	-13.77			
2117	NOT USED	- -	-	-	-	-	-				
2118	1234+37.31	10.0 RT		A(7)	4′	T20 F&G	-7.32	-13.47		-13.47	-13.47
2119	1234+47.31	10.0 RT		A(7)	4′	T20 F&G	-7.32			-13.44	
2120	1234+27.31	10.0 RT		A(7)	4′	T20 F&G	-7.32	-13.44			
2121	1234+39.97	80.9 LT		C	2′	T1F OL	-5.92			-11.80	
221	1240+13.29	81.1 LT	A		5′	T1F CL	-0.61	-8.21	-6.16	-9.21	
222	1239+31.89	77.0 LT		C	2′	T1F OL	-1.46		-8.01		
223	1240+21.78	10.0 RT		A(7)	4′	T20 F&G	0.21				-5.54
224	1240+21.73	70.4 LT		A	4′	T20 F&G	-0.01		-5.86		-6.11
225	1238+91.50	9.6 RT		A(7)	4′	T20 F&G	-1.86				-7.69
226	1239+31.88	68.1 LT		A	4′	T20 F&G	-1.39	-8.05	-8.05		-8.05
227	1237+44.76	66.3 LT		A	4′	T20 F&G	-4.34		F.V.		
228	1237+30.50	8.3 RT		A(7)	4′	T20 F&G	-4.38				F.V.
231	1241+97.78	10.0 RT		A(7)	4′	T20 F&G	2.41				-3.41
232	1241+97.73	75.0 LT		A	4′	T20 F&G	2.08		-3.75		-3.75
233	1241+91.16	82.2 LT	A		4′	T1F CL	1.62	-3.79		-7.43	
234	1242+84.79	77.0 LT		A	4′	T20 F&G	2.58			-3.38	
235	1245+79.44	10.0 RT		A(7)	4′	T20 F&G	2.21				-3.64

STORM SEWER SCHEDULE

PIPE NUMBER	UPSTREAM STATION	DOWNSTREAM STATION	TYPE	DIA. (IN)	LENGTH (FT)	SLOPE %	T.B. (CU.YD)
1718	1209+47.87	1209+31.93	2	12	13	0.44	1.8
1719	158+85.92	1208+82.79	2	24	66	0.32	15.5
1720	NOT USED	-	-	-	-	-	-
1721	1212+00.00	1212+08.00	2	12	9	0.44	0.0
1722	157+75.42	157+87.88	2	15	9	0.44	1.1
181	1213+73.49	1213+76.02	2	15	71	0.44	12.7
182	1213+76.02	1213+83.86	2	15	9	0.44	0.8
183	1215+50.04	1215+50.57	2	15	72	0.44	18.6
184	1215+50.57	1215+50.87	2	15	9	0.44	0.7
185	1217+23.40	1217+24.74	2	15	72	0.44	21.2
186	1217+24.74	1217+22.86	2	15	6	0.44	1.1
187	1218+97.11	1219+01.42	2	15	72	0.44	21.2
188	1215+50.34	1215+50.04	2	15	6	0.44	1.0
189	1215+65.43	1215+50.57	2	12	14	0.44	1.6
191	1219+01.42	1219+01.52	2	15	4	0.44	1.1
192	1222+51.63	1222+77.65	2	12	72	0.44	16.3
193	1224+12.19	1224+11.23	2	15	84	0.44	28.6
194	1224+11.23	1224+11.23	2	18	9	0.44	0.7
201	1225+71.32	1225+71.77	2	15	77	0.44	11.0
202	1227+25.59	1227+25.59	2	15	74	0.44	24.3
203	1227+25.59	1227+25.59	2	15	10	0.44	1.2
204	1228+88.05	1228+85.75	2	15	75	0.44	23.8
205	1228+85.75	1228+85.77	2	15	5	0.44	1.2
206	1230+45.10	1230+61.54	2	15	76	0.44	12.7
207	1230+61.54	1230+61.54	2	15	3	0.44	0.9
208	1225+70.97	1225+71.32	2	15	5	0.44	0.3
209	1225+62.22	1225+71.77	2	12	10	0.44	0.1
2010	1229+99.75	1230+04.86	2	12	8	0.44(5)	0.0 1
211	1235+87.19	1234+31.50	2	15	151	0.45	108.2
212	1234+31.50	1233+71.37	3	18	56	0.45	69.9
213	1232+01.40	1232+01.40	2	15	74	0.44	7.3
214	1232+01.40	1231+42.86	2	15	52	0.44	14.1
215	1233+30.69	1233+30.59	2	12	74	0.44	11.2
216	1233+30.59	1233+71.37	2	12	37	0.44	9.9
217	1232+00.55	1232+01.40	2	15	5	0.44	0.2
218	1236+13.19	1235+87.19	2	12	26	0.44	3.1
219	1234+80.64	1234+80.84	2	15	4	0.44	0.3
2110	1234+80.84	1235+15.95	2	15	32	0.44	5.3
2111	1235+15.95	1235+15.76	2	15	78	0.44	15.1
2112	1235+15.76	1235+15.95	2	15	4	0.44	0.9
2113	1231+60.90	1231+80.35	2	48	19	0.09	24.9
2114	1234+47.21	1234+37.31	2	15	6	0.44	1.0
2115	1234+37.31	1234+31.50	2	18	5	0.44	1.7
2116	1234+27.31	1234+37.31	2	15	6	0.44	1.1
2117	NOT USED	-	-	-	-	-	-
2118	1234+37.31	1234+37.31	2	15	74	0.44	13.2
2119	1234+47.31	1234+37.31	2	15	6	0.44	1.1
2120	1234+27.31	1234+37.31	2	15	6	0.44	1.1
2121	1234+39.97	1234+31.50	2	12	6	0.44	0.0
2122	1231+50.41	1231+60.90	2	48	9	0.09	11.3
221	1240+13.29	1239+60.91	2	24	48	0.35	0.0
222	1239+31.89	1239+31.88	2	12	8	0.44	0.9
223	1240+21.78	1240+21.73	2	12	73	0.44	10.4
224	1240+21.73	1240+13.29	2	15	11	0.44	0.9
225	1238+91.50	1239+31.88	2	12	81	0.44	15.7
226	1239+31.88	1239+60.91	2	12	28	0.44	4.3

NOTES:

(1) INDICATES INLET TYPE A, 2′ DIAMETER, TYPE 20 FRAME & GRATE.

(2) INDICATES MANHOLE, TYPE A, 6′ DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE.

(3) INDICATES SEWER LATERAL WITH 45° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(4) INDICATES SEWER LATERAL WITH 30° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(5) INDICATES SEWER LATERAL WITH 60° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(6) INDICATES MANHOLE TYPE A WITH FLAT SLAB TOP, IDOT STANDARD 602601.

(7) INDICATES CATCH BASIN REQUIRING TEMPORARY SOIL RETENTION SYSTEM WITH INSTALLATION.

(8) ALL STRUCTURE ELEVATIONS IN RESURFACED AREAS COME FROM AERIAL SURVEY AND SHOULD BE VERIFIED IN THE FIELD AND ADJUSTED TO MATCH EXISTING CONDITIONS.

CASING SIZES

PIPE SIZE	CASING SIZE (OD)•	CASING WALL THICKNESS
12″	30″	0.500″
24″	42″	0.625″
30″	48″	0.688″
36″	48″	0.688″

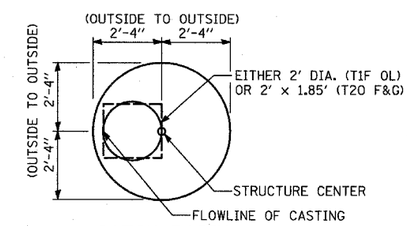
•ALL STEEL CASING SHALL MEET OR EXCEED ASTM A-139, GRADE B.

SEE THE DRAINAGE & UTILITY PLANS FOR LOCATION OF ALL STRUCTURES.

CATCH BASIN STATIONS ARE MEASURED TO CENTER OF STRUCTURE.

CATCH BASIN OFFSETS ARE MEASURED TO FLOWLINE OF CASTING. (SEE BELOW)

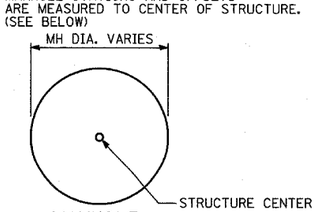
FLOWLINE OF CASTING IS LOCATED AT ℄ OF STRUCTURE FOR CATCH BASINS LOCATED IN SWALE AND GORE AREAS.



CATCH BASIN

(PRECAST REINFORCED CONCRETE SECTION)

MANHOLE STATIONS AND OFFSETS ARE MEASURED TO CENTER OF STRUCTURE. (SEE BELOW)



MANHOLE

SHEET 4 OF 8

TY·LIN INTERNATIONAL

REVISIONS NAME	DATE
1 ADDENDUM 1	05/08/06

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE STRUCTURE SCHEDULE

SCALE: NONE DRAWN BY: RD

DATE: MARCH 1, 2006 CHECKED BY: DA

5/15/2006 12:02:30 PM

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