F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	916	379
STA. 190+65 (NB I-57) 1990+48 (NB FORD)		TO STA. 2316+00 (NB RYAN		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* (1516.1, 1717, & 1818) R-4

62304

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.	
1521	2204+53.68	67.5 RT		A	4′	T20 F&G	-2.22			-8.43		
1522	2205+47.12	67.4 RT		C	2′	T1F OL	-0.79				-9.02	
161	2208+15.24	3.7 LT		A(7)	4′	T20 F&G	-3.09		-8.61	-8.61		
162	2208+30.00	64.0 RT		A(1)	2′	T20 F&G	-3.32				-5.59	
163	2213+97.46	72.0 RT		A	4′	T20 F&G	-0.46				-6.29	
164	2209+43.96	64.0 RT		A(1)	2′	T20 F&G	-2.69				-5.59	
165	2210+27.61	65.2 RT		A	4′	T20 F&G	-2.29	-8.09			-8.09	
166	2210+54.13	54.6 RT	J.C.				-2.03	-8.98		-8.98		
167	2210+61.85	3.7 LT		A(7)	4′	T20 F&G	-1.76		-7.52			
168	2210+45.55	67.0 RT		A	4′	T20 F&G	-2.25		-8.02	-8.02		
169	2210+69.71	64.0 RT	A(6)		6′	T1F CL	-1.96	-8.59		-8.94		
1610	2212+29.77	4.4 LT		A(7)	4′	T20 F&G	-0.84		-6.94			
1611	2212+23.11	63.9 RT	A(6)		6′	T1F CL	-1.10	-8.22	-7.22	-8.22	-7.22	
1612	2212+23.63	72.0 RT		A	4′	T20 F&G	-1.43				-7.21	
1613	2213+96.96	64.4 RT	A(6)		5′	T1F CL	-0.15	-7.30	-6.30	-7.80	-6.24	
1614	2208+94.02	64.0 RT		A(1)	2′	T20 F&G	-2.96				-5.59	
1615	2210+50.00	74.5 RT		C	2′	T1F OL	-2.57				-7.99	
171	2214+03.32	5.0 LT		A(7)	4′	T20 F&G	0.14		-5.96			
172	NOT USED	- -	-	-	-	-	-	-	-	-		
173	2215+79.03	5.0 LT		A	4′	T20 F&G	1.12		-4.98			
174	2215+88.03	65.4 RT	DROP		6′	T1F CL	0.88	-6.33	-3.62	-6.83	-5.27	
175	2215+78.67	72.0 RT		A	4′	T20 F&G	0.52				-6.09	1
176	2217+52.81	6.5 LT		A(7)	4′	T20 F&G	2.03		-4.07			
177	2217+46.14	65.1 RT	A(6)		5′	T1F CL	1.78	-5.37		-5.87	-4.36	
178	2217+52.92	72.0 RT		A	4′	T20 F&G	1.50				-5.09	1
181	2219+29.28	6.5 LT		A(7)	4′	T20 F&G	2.87		-3.23			
182	2219+17.38	64.6 RT	A(6)		5′	T1F CL	2.63			-4.62	-3.52	
183	2219+08.88	72.0 RT		A	4′	T20 F&G	2.27			-4.40		1
184	2222+70.01	6.5 LT		A(7)	4′	T20 F&G	2.80		-3.00			
185	2224+29.79	6.5 LT		A(7)	4′	T20 F&G	1.96		-3.46			
186	2224+29.83	84.7 RT		A	4′	T20 F&G	1.15		-3.83		-3.83	
187	2224+83.49	83.6 RT		A	4′	T20 F&G	0.79		-5.04			
191	2225+37.07	82.6 RT		A	4′	T20 F&G	0.37		-5.46			
192	2225+89.81	9.6 LT		A(7)	4′	T20 F&G	0.50		-4.71			
193	2225+84.32	81.6 RT		A	4′	T20 F&G	-0.04		-5.08		-5.08	
194	2226+67.21	80.0 RT		A	4′	T20 F&G	-0.82		-6.65			
195	2227+44.18	10.0 LT		A(7)	4′	T20 F&G	-1.06		-8.92			
196	2227+43.58	78.4 RT		A	4′	T20 F&G	-1.54		-9.28		-9.28	
197	2228+24.06	78.0 RT		A	4′	T20 F&G	-3.41	-8.18				
198	2229+04.33	10.0 LT		A(7)	4′	T20 F&G	-2.67		-8.25			
199	2229+07.09	75.2 RT		A	4′	T20 F&G	-3.08		-8.59		-8.59	
1910	2229+83.98	73.6 RT		A	4′	T20 F&G	-3.80		-9.63			
1911	2230+64.49	10.0 LT		A(7)	4′	T20 F&G	-4.27		-10.12			
1912	2230+64.09	73.0 RT		A	4′	T20 F&G	-4.60		-10.42		-10.42	
201	2231+42.00	73.0 RT		A	4′	T20 F&G	-5.39	-10.54				1
202	2232+20.04	9.1 LT		A(7)	4′	T20 F&G	-5.78		-10.68			
203	2232+19.59	73.0 RT		A	4′	T20 F&G	-6.18			-11.01	-11.01	
204	2233+49.27	10.0 LT		A(7)	4′	T20 F&G	-6.97		-12.84			
205	2233+49.06	73.1 RT		A	4′	T20 F&G	-7.35	-13.18			-13.18	
206	2233+66.69	70.1 RT	A		5′	T1F CL	-7.31	-15.25		-13.24		
207	2234+30.04	10.0 LT		A(7)	4′	T20 F&G	-7.22	-13.28				
208	2234+50.04	10.0 LT		A(7)	4′	T20 F&G	-7.22			-13.28		
209	2234+40.04	10.0 LT		A(7)	4′	T20 F&G	-7.22	-13.31	-13.31	-13.31		
2010	NOT USED	- -	-	-	-	-	-	-	-	-	-	

STORM SEWER SCHEDULE

PIPE NUMBER	UPSTREAM STATION	DOWNSTREAM STATION	TYPE	DIA. (IN)	LENGTH (FT)	SLOPE %	T.B. (CU.YD)	
1522	2205+47.12	2205+47.04	2	12	18	0.44	5.6	
1523	2207+05.57	2207+01.50	2	15	7	0.44	0.1	
1524	2205+09.74	2205+01.85	2	15	7	0.44	1.1	
161	2208+15.24	2207+86.28	2	15	56	0.44	6.8	
162	2208+30.00	2208+17.31	2	12	19	0.44(3)	0.0	1
163	2213+97.46	2213+96.96	2	12	2	0.44	0.3	
164	2209+43.96	2209+31.24	2	12	19	0.44(3)	0.0	1
165	2210+27.61	2210+12.97	2	12	19	0.44	3.3	
166	2210+54.13	2207+01.50	2	34 X 53	345	0.21	0.0	
167	2210+61.85	2210+54.13	2	12	56	0.44	11.5	
168	2210+45.55	2210+27.61	2	12	14	0.44	2.1	
169	2210+69.71	2210+54.13	2	42	14	0.29	0.0	
1610	2212+29.77	2212+23.11	2	15	63	0.44	11.2	
1611	2212+23.11	2210+69.71	2	36	149	0.25	0.0	
1612	2212+23.63	2212+23.11	2	12	2	0.44	0.4	
1613	2213+96.96	2212+23.11	2	36	169	0.25	38.0	
1614	2208+94.02	2208+81.32	2	12	19	0.44(3)	0.0	1
1615	2210+50.00	2210+45.55	2	12	7	0.44	0.5	
171	2214+03.32	2213+96.96	2	15	64	0.44	10.7	1
172	NOT USED	-	-	-	-	-	-	
173	2215+79.03	2215+88.03	2	15	65	0.44	11.6	
174	2215+88.03	2213+96.96	2	30	189	0.25	55.0	
175	2215+78.67	2215+70.69	2	12	8	0.44	2.1	
176	2217+52.81	2217+46.14	2	15	66	0.44	11.8	
177	2217+46.14	2215+88.03	2	24	154	0.30	49.7	
178	2217+52.92	2217+52.75	2	12	3	0.44	0.7	
181	2219+29.28	2219+17.38	2	15	66	0.44	11.8	
182	2219+17.38	2217+46.14	2	18	167	0.45	51.3	
183	2219+08.88	2218+99.62	2	12	9	0.44	2.3	
184	2222+70.01	2222+69.56	2	12	69	0.44	10.5	
185	2224+29.79	2224+29.83	2	12	84	0.44	7.6	
186	NOT USED	-	-	-	-	-	-	
187	2224+83.49	2224+83.49	2	12	7	0.44(4)	0.5	1
191	2225+37.07	2225+37.17	2	12	6	0.44(4)	0.5	1
192	2225+89.81	2225+84.32	2	12	84	0.44	6.7	
193	NOT USED	-	-	-	-	-	-	
194	2226+67.21	2226+67.18	2	12	7	0.44(3)	1.4	1
195	2227+44.18	2227+43.58	2	12	81	0.44	29.3	
196	NOT USED	-	-	-	-	-	-	
197	2228+24.06	2228+30.46	2	12	7	0.44(4)	0.2	1
198	2229+04.33	2229+07.09	2	12	81	0.44	10.0	
199	2229+07.09	2229+07.22	2	12	4	0.44	0.5	
1910	2229+83.98	2229+91.65	2	12	9	0.44	0.5	
1911	2230+64.49	2230+64.09	2	12	80	0.44	12.2	
1912	2230+64.09	2230+70.77	2	12	8	0.44	-	
201	2231+42.00	2231+50.67	2	12	8	0.44	0.6	
202	2232+20.04	2232+19.59	2	12	76	0.44	3.6	
203	2232+19.59	2231+59.83	2	12	55	0.44	6.1	
204	2233+49.27	2233+49.06	2	12	76	0.44	11.6	
205	2233+49.06	2233+66.69	2	12	14	0.44	2.1	
206	2233+66.69	2234+44.83	2	15	74	0.70	61.5	
207	2234+30.04	2234+40.04	2	15	6	0.44	1.0	
208	2234+50.04	2234+40.04	2	15	6	0.44	1.0	
209	2234+40.04	2234+40.12	2	15	74	0.44	13.2	

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″

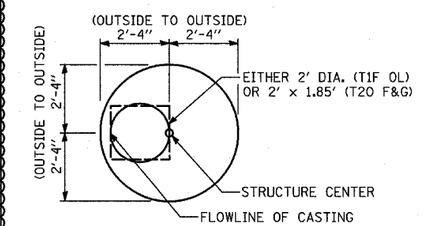
*ALL STEEL CASING SHALL MEET OR EXCEED ASTM A-139, GRADE B.

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)

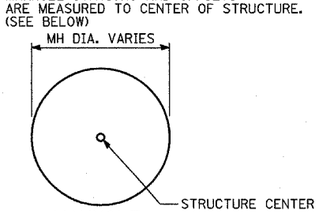
FLOWLINE OF CASTING IS LOCATED AT ℄ OF STRUCTURE FOR CATCH BASINS LOCATED IN SWALE AND GORE AREAS.



CATCH BASIN

(PRECAST REINFORCED CONCRETE SECTION)

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



MANHOLE

SHEET 4 OF 10

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 7, 2006 | CHECKED BY: DA