F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	916	378
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.
	113	241+47.07	55.8 LT	A		4'	T1F CL	22.71		11.44	16.87	11.44
1	114	243+02.44	10.0 RT		A	4'	T20 F&G	26.98				19.14
1	115	243+02.41	46.0 LT		A	4'	T20 F&G	24.80		18.93		18.93
	116	243+00.36	56.5 LT	A		4'	T1F CL	24.26	13.13	18.89	12.88	
	117	245+78.48	46.0 LT		A	4'	T20 F&G	25.47				19.64
	118	245+52.77	57.9 LT	A		4'	T1F CL	24.52		19.53		15.54
1	119	241+46.74	32.1 LT		A	4'	T1F OL	23.51		16.97		16.95
	121	248+58.84	42.0 LT		A	4'	T20 F&G	22.52		16.89		
	122	248+46.74	8.0 RT		A	4'	T20 F&G	25.01	16.47			16.47
	123	249+90.92	42.0 LT		A	4'	T20 F&G	19.67		13.84		
	124	249+91.06	8.4 RT		A	4'	T20 F&G	21.93		13.65	13.65	13.65
1	125	NOT USED	- -	-	-	-	-	-	-	-	-	-
	126	250+89.62	16.0 RT	A		5'	T1F CL	19.14			5.28	5.28
	127	249+61.25	20.5 RT	A(2)		6'	T1F CL	20.47	4.66		4.66	
	128	251+81.80	40.0 LT		A	4'	T20 F&G	14.27		8.08		
	131	2039+27.06	10.0 LT		A	4'	T20 F&G	15.91		8.56		
	132	2039+27.10	39.6 RT		A	4'	T20 F&G	14.05	8.38			8.38
	133	2040+35.06	49.4 RT	A		6'	T1F CL	12.76	-11.36		-11.36	
	134	2040+22.06	49.4 RT	A(2)		6'	T1F CL	12.69	-11.38		-11.38	
	135	252+30.72	10.0 RT		A	4'	T20 F&G	15.05		7.79		7.79
	136	2042+75.22	10.0 LT		A	4'	T20 F&G	14.01		7.76		7.76
	137	2042+75.22	36.0 RT		A	4'	T20 F&G	13.42		7.59		7.59
	138	2042+75.22	46.7 RT	A		6'	T1F CL	11.99	-11.13		-11.13	7.55
	139	253+45.98	42.0 LT		A	4'	T20 F&G	9.72		3.91		
	1310	2043+96.86	36.0 RT		A	4'	T20 F&G	10.90		3.55		3.55
	1311	2043+96.80	43.9 RT	A		6'	T1F CL	10.21	-11.01	4.71	-11.01	3.53
	141	2044+03.05	50.8 RT		C	2'	T1F OL	10.49			4.74	
	142	255+54.27	43.6 LT		A(7)	4'	T20 F&G	5.41		-0.32		
	143	255+54.27	36.0 RT		A	4'	T20 F&G	6.30		-0.64		-0.64
	144	255+54.66	43.9 RT	A		6'	T1F CL	6.83	-10.81		-10.81	-0.66
	145	257+77.25	47.9 RT		C	2'	T1F OL	5.36			-1.38	
	146	257+65.20	43.5 LT		A(7)	4'	T20 F&G	1.79		-4.01		
	147	257+65.20	36.0 RT		A	4'	T20 F&G	1.50		-4.33		-4.33
	148	257+57.15	41.6 RT	A		6'	T1F CL	4.55	-10.51	-1.45	-10.51	-4.36
	151	2203+98.70	7.0 LT		A(7)	4'	T20 F&G	-1.18		-8.35		
	152	2203+98.79	69.6 RT		A	4'	T20 F&G	-1.55	-8.65	-8.65		-8.65
	153	2203+98.66	78.1 RT	A		6'	T1F CL	2.07	-10.26		-10.26	-8.68
	154	2205+01.85	6.7 LT		A(7)	4'	T20 F&G	-2.47	-8.51	-8.51		
	155	2205+01.49	65.6 RT		A	4'	T20 F&G	-2.69		-8.79		-8.79
	156	2205+00.02	77.9 RT	A(6)		6'	T1F CL	2.25	-10.12		-10.12	
	157	2205+29.57	54.0 RT	J.C.				-2.81	-10.02		-10.02	
	158	NOT USED	- -	-	-	-	-	-	-	-	-	-
	159	2206+45.60	63.8 RT		A(1)	2'	T20 F&G	-3.59				-5.59
	1510	2207+01.50	63.9 RT		A(FS)	5'	T20 F&G	-3.69	-8.01			-9.26
	1511	2207+10.00	63.4 RT		C	2'	T20 F&G	-3.69	-5.61		-7.98	
	1512	2206+45.56	6.5 LT		A(7)	4'	T20 F&G	-3.40		-8.51		
	1513	2207+01.50	5.3 LT		A(7)	4'	T20 F&G	-3.44	-8.15	-8.15		-8.15
	1514	2207+16.76	5.1 LT		A(7)	4'	T20 F&G	-3.43			-8.12	
	1515	2207+10.00	5.2 LT		A(7)	4'	T20 F&G	-3.44	-8.13		-8.13	
	1516	2207+01.50	48.5 RT	J.C.				-3.24	-9.68	-9.29	-9.68	-8.35
	1517	2207+17.00	63.9 RT		A(1)	2'	T20 F&G	-3.69			-5.59	
	1518	2207+65.83	4.3 LT		A(7)	4'	T20 F&G	-3.32	-8.41			
	1519	NOT USED	- -	-	-	-	-					
	1520	2207+80.00	64.0 RT		A(1)	2'	T20 F&G	-3.56				-5.59

STORM SEWER SCHEDULE

	PIPE NUMBER	UPSTREAM STATION	DOWNSTREAM STATION	TYPE	DIA. (IN)	LENGTH (FT)	SLOPE %	T.B. (CU.YD)
1	114	243+02.44	243+02.41	2	12	48	0.44	12.3
1	115	243+02.41	243+00.36	2	12	9	0.44	0.7
	116	243+00.36	241+47.07	2	18	144	1.00	0.0
	117	245+78.48	245+52.77	2	12	25	0.44	1.4
	118	245+52.77	243+00.36	2	15	241	1.00	0.0
1	119	241+46.74	241+47.03	2	12	8	0.44	1.5
	121	248+58.84	248+46.74	2	12	44	1.00	12.7
	122	248+46.74	249+91.06	2	12	141	2.00	93.9
	123	249+90.92	249+91.06	2	12	43	0.44	12.0
	124	249+91.06	249+91.51	2	12	16	0.44(5)	3.2
1	125	NOT USED	-	-	-	-	-	-
	126	250+89.62	249+61.25	3	24	125	0.50	19.9
	127	249+61.25	249+47.93	3	24	8	0.50	0.0
	128	251+81.80	252+30.72	2	12	65	0.44	16.1
	131	2039+27.06	2039+27.10	2	12	42	0.44	9.5
	132	2039+27.10	2040+07.89	2	12	75	0.44	2.2
	133	2040+35.06	2040+22.06	5	48	8	0.13	0.0
	134	2040+22.06	2040+07.89	5	48	8	0.13	0.0
	135	252+30.72	2042+75.22	2	12	7	0.44	1.7
	136	2042+75.22	2042+75.22	2	12	38	0.44	6.6
	137	2042+75.22	2042+75.22	2	12	8	0.44	0.2
	138	2042+75.22	2040+35.06	5	48	236	0.10	0.0
	139	253+45.98	2043+96.86	2	12	81	0.44	18.3
	1310	2043+96.86	2043+96.80	2	12	5	0.44	0.8
	1311	2043+96.80	2042+75.22	4	48	117	0.10	0.0
	141	2044+03.05	2043+96.80	2	12	6	0.44	0.0
	142	255+54.27	255+54.27	2	12	72	0.44	14.8
	143	255+54.27	255+54.66	2	12	5	0.44	0.9
	144	255+54.66	2043+96.80	4	48	200	0.10	0.0
	145	257+77.25	257+57.15	2	12	17	0.44	0.0
	146	257+65.20	257+65.20	2	12	72	0.44	10.9
	147	257+65.20	257+57.15	2	12	7	0.44	2.2
	148	257+57.15	255+54.66	3	48	198	0.15	0.0
	151	2203+98.70	2203+98.79	2	12	70	0.44	20.2
	152	2203+98.79	2203+98.66	2	12	6	0.44	4.5
	153	2203+98.66	257+57.15	3	48	169	0.15	309.0
	154	2205+01.85	2205+01.49	2	15	65	0.44	10.9
1	155	2205+01.49	2205+07.97	2	15	8	0.44	1.4
	156	2205+00.02	2203+98.66	2	48	96	0.15	0.0
	157	2205+29.57	2205+00.02	2	42	33	0.13	26.1
	158	NOT USED	-	-	-	-	-	-
1	159	2206+45.60	2206+23.16	2	12	28	0.44(3)	0.0
	1510	2207+01.50	2207+01.50	2	30	7	0.44	0.0
	1511	2207+10.00	2207+01.50	2	15	6	0.44	0.0
	1512	2206+45.56	2206+15.24	2	15	60	0.44	5.9
	1513	2207+01.50	2207+01.50	2	18	46	0.44	0.8
	1514	2207+16.76	2207+10.00	2	15	3	0.44	0.1
	1515	2207+10.00	2207+01.50	2	15	5	0.44	0.1
	1516	2207+01.50	2205+29.57	2	34 X 53	164	0.21	0.0
	1517	2207+17.00	2207+10.00	2	12	5	0.44	0.0
	1518	2207+65.83	2208+15.24	2	15	46	0.44	4.0
	1519	NOT USED	-	-	-	-	-	-
1	1520	2207+80.00	2207+67.40	2	12	19	0.44(3)	0.0
	1521	2204+53.68	2203+98.79	2	12	51	0.44	1.2

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"

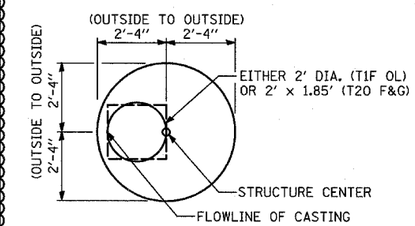
*ALL STEEL CASING SHALL MEET OR EXCEED ASTM A-139, GRADE B.

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)

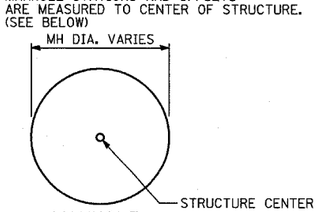
FLOWLINE OF CASTING IS LOCATED AT ℄ OF STRUCTURE FOR CATCH BASINS LOCATED IN SWALE AND GORE AREAS.



CATCH BASIN

(PRECAST REINFORCED CONCRETE SECTION)

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



MANHOLE

SHEET 3 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