F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	916	383
STA. 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		DIA.	FRAME & LID	TOP OF FRAME	N INV.	E INV.	S INV.	W INV.
			MH	CB							
347	2315+17.14	72.0 RT		A	4′	T20 F&G	-6.77		-13.74		-13.74
451	1994+49.98	87.2 RT		A	4′	T20 F&G	6.07		0.73		
452	1993+39.92	87.1 RT		A	4′	T20 F&G	5.68		0.26		0.26
453	1992+59.52	85.2 RT		A	4′	T20 F&G	5.37		-0.07		-0.07
454	1992+49.56	83.3 RT		A	4′	T20 F&G	5.35		-0.10		-0.10
455	1991+50.00	51.2 RT		C	2′	T1F OL	4.70			-0.48	
461	1996+75.83	39.2 RT		C	2′	T20 F&G	7.01			3.65	
471	2006+96.52	51.3 RT	A		5′	T1F CL	3.32		-7.02	-2.38	-6.52
472	2004+89.49	50.4 RT	A		5′	T1F CL	2.66		-8.23	-3.18	-7.73
473	2003+27.99	45.3 RT	A(2)		6′	T1F CL	4.05		-8.70		-8.70
474	303+94.22	27.2 LT		A	4′	T20 F&G	4.31			-1.52	
475	302+08.06	24.0 LT		A	4′	T20 F&G	3.85		-2.25		
476	301+98.06	24.0 LT		A	4′	T20 F&G	3.86		-2.28	-2.28	-2.28
477	301+88.05	24.0 LT		A	4′	T20 F&G	3.88				-2.25
478	300+78.86	24.0 LT		A	4′	T20 F&G	3.85			-1.98	
479	2006+96.17	34.2 RT		A	4′	T20 F&G	3.52	-2.31			
4710	2005+10.00	34.2 RT		A	4′	T20 F&G	3.02		-3.08		
4711	2005+00.00	34.2 RT		A	4′	T20 F&G	3.05	-3.11	-3.11		-3.11
4712	2004+90.00	34.2 RT		A	4′	T20 F&G	3.07				-3.08
4713	2005+39.64	45.6 RT		C	2′	T1F OL	1.14	-2.36			
4714	2003+75.31	34.2 RT		A	4′	T20 F&G	3.54	-7.54			
481	2010+00.32	39.9 RT	A		4′	T1F CL	4.65			0.17	-4.56
482	2011+55.57	42.9 RT	A		4′	T1F CL	4.32		-5.14	-0.54	-5.39
483	2012+86.99	40.8 RT	A		5′	T1F CL	4.11		-5.82	-1.91	-6.32
484	2008+32.63	51.3 RT	A		6′	T1F CL	3.61		-6.06	-1.64	-1.64
485	2008+36.38	34.2 RT		A	4′	T20 F&G	4.26	-1.57			
486	2008+48.41	44.2 RT		C	2′	T1F OL	2.29				-1.58
487	2010+04.05	10.9 LT		A	4′	T20 F&G	6.19	0.36			
488	2009+97.69	34.2 RT		A	4′	T20 F&G	4.68	0.19		0.19	
489	310+00.00	31.8 LT		A	4′	T20 F&G	5.04			-0.79	
4810	310+00.00	8.0 RT		A	4′	T20 F&G	4.23	-1.60			
4811	2012+79.92	7.6 LT		A	4′	T20 F&G	6.50	-1.73		-1.73	
4812	2012+79.52	34.2 RT		A	4′	T20 F&G	4.34	-1.88		-1.88	
4813	308+50.00	32.2 LT		A	4′	T20 F&G	5.73	-0.10			
4814	308+50.00	8.0 RT		A	4′	T20 F&G	5.60	-0.25		-0.25	
4815	305+43.99	30.5 LT		A	4′	T20 F&G	5.16			-0.67	
491	2014+63.78	41.4 RT	A		5′	T1F CL	2.39		-6.91	-3.24	-7.16
492	2016+36.71	41.6 RT	A(6)		5′	T1F CL	0.75	-4.31(E)	-7.74	-4.95	-7.99
493	2017+17.21	44.5 RT	A(2)		6′	T1F CL	-0.33		-8.18		-8.18
494	2019+04.85	40.4 RT	A		5′	T1F CL	-2.38	-7.33	-7.33		-7.33
495	2017+86.47	41.2 RT	A		5′	T1F CL	-0.65		-8.22		-7.72
496	2017+44.82	43.8 RT	A(2)		6′	T1F CL	-0.82		-8.33		-8.33
497	315+93.98	26.3 LT		A(7)	4′	T20 F&G	0.61	-6.81			
498	316+12.07	7.4 RT		A	4′	T20 F&G	-0.82	-6.95		-6.95	
499	2019+17.16	9.3 LT		A	4′	T20 F&G	0.47	-7.12		-7.12	
4910	2019+18.77	34.3 RT		A	4′	T20 F&G	-1.93		-7.28	-7.28	
4911	2019+04.98	47.0 RT		C	2′	T1F OL	-2.83			-7.31	
4912	315+08.72	26.1 LT		A(7)	4′	T20 F&G	1.12	-5.97			
4913	315+08.78	7.5 RT		A	4′	T20 F&G	-0.18	-6.08		-6.08	
4914	2017+93.26	9.2 LT		A	4′	T20 F&G	1.77	-6.23		-6.23	
4915	2017+94.31	34.2 RT		A	4′	T20 F&G	-0.56	-7.17		-6.39	
4916	313+38.64	27.2 LT		A(7)	4′	T20 F&G	2.54	-4.48			
4917	313+38.62	8.0 RT		A	4′	T20 F&G	1.23	-4.60		-4.60	
4918	2016+28.36	9.2 LT		A	4′	T20 F&G	3.52	-4.75		-4.75	

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STORM SEWER SCHEDULE

PIPE NUMBER	UPSTREAM STATION	DOWNSTREAM STATION	TYPE	DIA. (IN)	LENGTH (FT)	SLOPE %	T.B. (CU.YD)
343	2314+24.24	2314+24.07	2	12	4	0.44	0.0
344	2314+24.07	2315+23.10	3	15	95	0.40	7.0
345	2315+23.10	2316+16.41	3	15	88	0.40	0.0
346	2315+15.14	2315+17.14	2	15	72	0.44	20.3
347	2315+17.14	2315+23.10	2	15	6	0.44	1.9
348	NOT USED	-	-	-	-	-	-
349	2313+84.68	2313+85.01	2	15	7	0.44	1.1
451	1994+49.98	1993+39.92	2	12	107	0.44	32.0
452	1993+39.92	1992+59.52	2	12	77	0.44	23.0
453	1992+59.52	1992+49.56	2	12	6	0.44	1.8
454	1992+49.56	1991+55.45	2	12	104	0.44	35.5
455	1991+50.00	1991+55.45	2	12	18	0.44	4.1
461	1996+75.83	1996+75.63	2	12	4	0.44	0.4
471	2006+96.52	2004+89.49	2	24	203	0.35	0.0
472	2004+89.49	2003+27.99	3	30	157	0.30	0.0
473	2003+27.99	300+23.68	3	30	8	0.25	0.0
474	303+94.22	303+92.81	2	12	17	0.44	1.5
475	302+08.06	301+98.06	2	15	6	0.44	2.4
476	301+98.06	300+99.11	2	15	30	0.44	3.1
477	301+88.05	301+98.06	2	15	6	0.44	1.6
478	300+78.86	300+68.45	2	12	33	0.44	1.7
479	2006+96.17	2006+96.52	2	12	15	0.44	1.0
4710	2005+10.00	2005+00.00	2	15	6	0.44	2.4
4711	2005+00.00	2004+89.49	2	15	17	0.44	1.9
4712	2004+90.00	2005+00.00	2	15	6	0.44	2.4
4713	2005+39.64	2005+30.82	2	12	12	0.44(3)	-
4714	2003+75.31	300+70.45	2	12	13	0.44	4.2
481	2010+00.32	2011+55.57	2	15	149	0.40	0.0
482	2011+55.57	2012+86.99	2	18	124	0.35	0.0
483	2012+86.99	2014+63.78	2	24	168	0.35	0.0
484	2008+32.63	2006+96.52	2	18	132	0.35	0.0
485	2008+36.38	2008+32.63	2	12	15	0.44	1.6
486	2008+48.41	2008+32.63	2	12	14	0.44	0.0
487	2010+04.05	2009+97.69	2	12	38	0.44	10.6
488	2009+97.69	2010+00.32	2	12	5	0.44	1.0
489	310+00.00	309+85.65	2	12	20	0.44	5.1
4810	310+00.00	2012+79.92	2	12	30	0.44	8.9
4811	2012+79.92	2012+79.52	2	12	34	0.44	26.4
4812	2012+79.52	2012+86.99	2	12	7	0.44	2.7
4813	308+50.00	308+50.00	2	12	33	0.44	11.6
4814	308+50.00	2011+55.57	2	12	65	0.44	16.1
4815	305+43.99	305+41.88	2	12	9	0.44	1.6
491	2014+63.78	2016+36.71	2	27	165	0.35	0.0
492	2016+36.71	2017+17.21	2	30	74	0.25	0.0
493	2017+17.21	2017+31.03	2	30	8	0.25	0.0
494	2019+04.85	2017+86.47	2	24	111	0.35	0.0
495	2017+86.47	2017+44.82	2	30	36	0.30	0.0
496	2017+44.82	2017+31.03	2	30	8	0.25	0.0
497	315+93.98	316+12.07	2	12	31	0.44	21.6
498	316+12.07	2019+17.16	2	12	39	0.44	10.0
499	2019+17.16	2019+18.77	2	12	36	0.44	23.3
4910	2019+18.77	2019+04.85	2	12	12	0.44	3.3
4911	2019+04.98	2019+04.85	2	12	4	0.44	0.0
4912	315+08.72	315+08.78	2	12	26	0.44	17.3

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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″

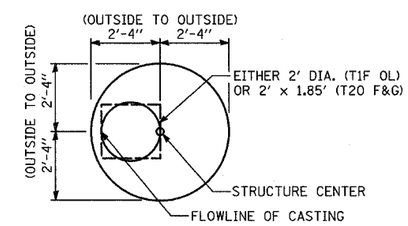
*ALL STEEL CASING SHALL MEET OR EXCEED ASTM A-139, GRADE B.

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)

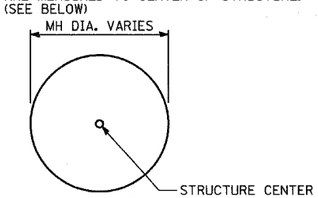
FLOWLINE OF CASTING IS LOCATED AT ℄ OF STRUCTURE FOR CATCH BASINS LOCATED IN SWALE AND GORE AREAS.



CATCH BASIN

(PRECAST REINFORCED CONCRETE SECTION)

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



MANHOLE

SHEET 8 OF 10

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

TY·LIN INTERNATIONAL