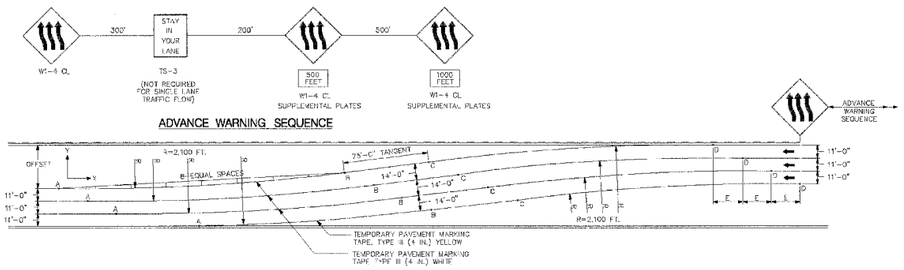
CONTRACT NO. 64594

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
303	129K	WINNEBAGO	585	283
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



ADVANCE WARNING SEQUENCE

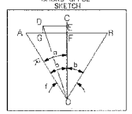
POINT LAY-OUT

OFFSET	P	R"	X	Y	Y'	X'	Y"	X"	Y"	X"
10	56.28	7.00	0	0	112	3.9	187	7.0	299	5.9
12	50.47	5.43	0	0	128	3.8	201	8.2	328	12.0
14	45.89	4.27	0	0	139	4.0	213	9.3	352	14.0
16	42.58	4.08	0	0	149	5.3	242	10.7	374	15.0
18	38.00	4.38	0	0	160	6.1	255	11.8	396	16.0
20	34.98	4.67	0	0	171	7.0	276	13.1	417	16.0
22	30.38	4.93	0	0	182	7.8	295	14.2	436	16.0
24	33.86	3.16	0	0	190	9.6	316	16.6	455	24.0
26	30.17	3.44	0	0	199	9.6	331	16.8	473	28.0
28	26.81	3.67	0	0	207	10.3	350	17.7	490	28.0
30	23.74	3.85	0	0	216	11.1	371	18.9	507	30.0
32	28.68	2.13	0	0	224	12.0	389	20.0	523	32.0
34	27.09	2.25	0	0	232	12.9	406	21.1	538	31.0
36	25.83	2.35	0	0	240	13.8	424	22.3	554	32.0
38	24.74	2.43	0	0	247	14.8	439	23.4	569	32.0
40	23.45	2.53	0	0	254	15.8	456	24.5	583	40.0
42	24.79	1.75	0	0	261	16.2	470	25.7	597	42.0
44	23.79	1.83	0	0	268	17.2	483	26.8	611	44.0
46	22.80	1.92	0	0	275	18.1	498	27.9	624	45.0
48	22.10	1.91	0	0	282	19.0	508	29.0	638	48.0
50	22.91	1.59	0	0	288	19.8	523	30.2	651	50.0
52	22.17	1.66	0	0	294	20.7	532	31.3	663	52.0
54	21.79	1.73	0	0	301	21.6	545	32.4	675	54.0
56	21.43	1.82	0	0	307	22.4	561	33.6	688	56.0
58	20.94	1.56	0	0	313	23.4	567	34.6	699	57.0
60	20.62	1.625	0	0	319	24.3	583	35.7	711	60.0

CHORD OFFSET DATA

1/8 R/S	1/4 R/S	3/8 R/S	1/2 R/S	1/4
0.3	1.1	2.5	4.3	0.6
0.4	1.6	3.6	6.1	0.8
0.5	2.1	4.7	8.1	1.0
0.6	2.7	6.1	10.4	1.2
0.7	3.2	7.2	12.4	1.4
0.8	3.7	8.3	14.4	1.6
0.9	4.2	9.4	16.4	1.8
1.0	4.8	10.6	18.4	2.0
1.1	5.3	11.7	20.4	2.2
1.2	5.8	12.8	22.4	2.4
1.3	6.3	13.9	24.4	2.6
1.4	6.8	15.0	26.4	2.8
1.5	7.3	16.1	28.4	3.0
1.6	7.8	17.2	30.4	3.2
1.7	8.3	18.3	32.4	3.4
1.8	8.8	19.4	34.4	3.6
1.9	9.3	20.5	36.4	3.8
2.0	9.8	21.6	38.4	4.0
2.1	10.3	22.7	40.4	4.2
2.2	10.8	23.8	42.4	4.4
2.3	11.3	24.9	44.4	4.6
2.4	11.8	26.0	46.4	4.8
2.5	12.3	27.1	48.4	5.0
2.6	12.8	28.2	50.4	5.2
2.7	13.3	29.3	52.4	5.4
2.8	13.8	30.4	54.4	5.6
2.9	14.3	31.5	56.4	5.8
3.0	14.8	32.6	58.4	6.0
3.1	15.3	33.7	60.4	6.2
3.2	15.8	34.8	62.4	6.4
3.3	16.3	35.9	64.4	6.6
3.4	16.8	37.0	66.4	6.8
3.5	17.3	38.1	68.4	7.0
3.6	17.8	39.2	70.4	7.2
3.7	18.3	40.3	72.4	7.4
3.8	18.8	41.4	74.4	7.6
3.9	19.3	42.5	76.4	7.8
4.0	19.8	43.6	78.4	8.0
4.1	20.3	44.7	80.4	8.2
4.2	20.8	45.8	82.4	8.4
4.3	21.3	46.9	84.4	8.6
4.4	21.8	48.0	86.4	8.8
4.5	22.3	49.1	88.4	9.0
4.6	22.8	50.2	90.4	9.2
4.7	23.3	51.3	92.4	9.4
4.8	23.8	52.4	94.4	9.6
4.9	24.3	53.5	96.4	9.8
5.0	24.8	54.6	98.4	10.0

CHORD OFFSET SKETCH



GENERAL NOTES:

1. REVERSE CURVE INFORMATION CAN BE USED FOR SINGLE LANE OR DOUBLE LANE TRAFFIC FLOWS, SHIFTING RIGHT TO LEFT (AS SHOWN) OR LEFT TO RIGHT BY CHANGING TO THE APPROPRIATE ADVANCE WARNING SEQUENCE.
2. PLACE TEMPORARY RAISED PAVEMENT MARKERS AT 25' C-C ON LINES NOT DELINEATED BY TRAFFIC CONTROL DEVICES.

APPROVED _____ DATE 11-03-2003

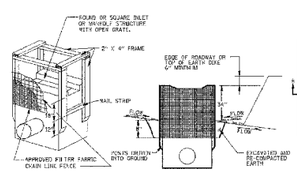
CTE ENGINEERS
CONSOLIDATED TRANSPORTATION ENGINEERS, INC.

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

NO.	DATE	REVISIONS DESCRIPTION

STANDARD SD 03-05
MAINTENANCE OF TRAFFIC REVERSE CURVE

DRAWING NO. E12 OF



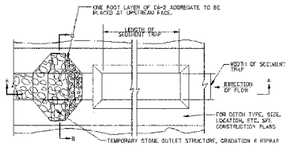
NOTES:

1. WOODEN FRAME IS TO BE CONSTRUCTED OF 2"X4" CONSTRUCTION GRADE LUMBER. IF CONSTRUCTION PREFERS, SUPER SILT FENCE CAN BE CONSTRUCTED AROUND THE INLET PER STANDARD DRAWING DETAIL SHEET 8 OF 12.
2. CHAIN LINK FENCE MUST BE OF SUFFICIENT STRENGTH TO SUPPORT FILTER FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT.
3. FILTER FABRIC SHALL CONFORM TO THE ISTHA STANDARD SPECIFICATIONS, CLASS 4.
4. MAXIMUM DRAINAGE AREA 4.0 A SAC. NOT EXCEED 1 ACRE.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SILT REMOVED WHEN IT REACHES 50% OF FENCE HEIGHT.

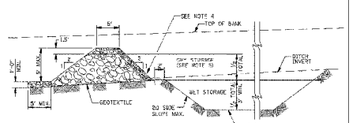
APPLICATIONS: TO BE USED TO PROTECT EXISTING AND NEW INLETS, CATCH BASINS AND MANHOLES WITH OPEN LIDS OR NON PAVED AREAS.

RECTANGULAR INLET PROTECTION

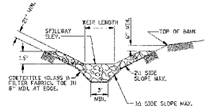
STANDARD SYMBOL



PLAN



SECTION A-A



SECTION B-B

NOTES:

3. USE OF BOOSTERS, REPROFILED AND TEMPORARY PATCHES OF ALL TYPES AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.
4. THE STONE OUTLET STRUCTURES SHALL BE REPLACED DUE TO WASHOUT, CONSTRUCTION TRAFFIC DAMAGE OR SILT ACCUMULATION. THE SILT SHALL BE CLEANED OUT WHEN SILT STORAGE FURTHER UP TRAP IS 50% FULL.
5. STONE OUTLET STRUCTURE AND SEDIMENT TRAP SHALL BE REMOVED WHEN CONSTRUCTION IS COMPLETE OR IS NOT TO ALLOW OR IMPEDE FLOW OF STORMWATER. FILL SEDIMENT TRAP WITH COMPACTED CLAY EMBANKMENT MATERIAL, TOPSOIL.
6. A ONE FOOT LAYER OF CA-2 AGGREGATE WILL BE PLACED AGAINST THE UPSTREAM FACE OF THE TEMPORARY STONE OUTLET STRUCTURE AND WILL BE MEASURED AND PAID FOR AS TEMPORARY RIPRAP.
7. THE DETENTION STORAGE SHALL BE COMPOSED OF SMALL VOLUMES OR "PET ING TOY" STORAGE. THE INLET AND OUTLET SPREAD SHALL EACH HAVE BE SIZED FOR THE RUNOFF FROM EITHER A 2-YEAR FREQUENCY, 24-HOUR DURATION STORM FROM THE AREA DRAINING INTO THE BASIN WHICH MAXIMIZES THE VOLUME OF RUNOFF, CONSTRUCTED WETLAND FIRST FLUSH BASIN OR THE 10-YEAR, 24-HOUR DURATION, 90% RUNOFF EVENT, WHICHEVER IS LARGER. HALF THE DETENTION STORAGE SHALL BE BELOW THE PERMEABLE FILL.
8. THE MAXIMUM DRAINAGE AREA ALLOWED PER TRAP IS 5 ACRES INCLUSIVE OF ANY OFF-SITE AREA. IF THE DRAINAGE AREA EXCEEDS 5 ACRES OR THE SLOPE IS SEVERE, USE A SEDIMENT BASIN. OR SEDIMENT TRAPS MAY BE PLACED IN SERIES.

SEDIMENT TRAP WEIR	
DRAINAGE AREA (ACRES)	WEIR LENGTH (FEET MIN.)
1	2
2	4
3	6
4	10
5	12

STONE OUTLET STRUCTURE SEDIMENT TRAP

STANDARD SYMBOL

SHEET 6 OF 12

APPROVED _____ DATE 1/30/2004

CTE ENGINEERS
CONSOLIDATED TRANSPORTATION ENGINEERS, INC.

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY
2700 OGDEN AVENUE
DOWNERS GROVE, ILLINOIS 60515

NO.	DATE	REVISIONS DESCRIPTION

STANDARD ESC 03-01
TEMPORARY EROSION AND SEDIMENT CONTROLS

DRAWING NO. K8 OF

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

ISTHA STANDARDS

SCALE: VERT. N/A
HORIZ. N/A
DATE SEPTEMBER 14, 2005

DRAWN BY KRL
CHECKED BY PDS