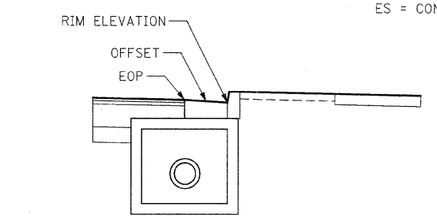
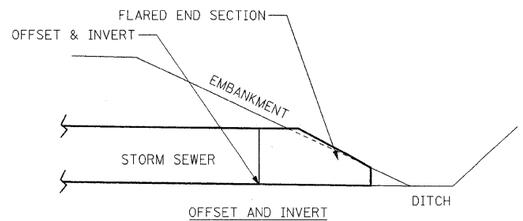
PIPE/ CULVERT NO.	DESCRIPTION	DIA. (IN)	LENGTH (FT)	SLOPE (%)	TRENCH BACKFILL (CU YDS.)	SHEET NO.	FROM ST. 1	TO ST. 2
2102	STORM SEW CL A 2 18	DIA 18"	104	1.92	-	83	2103	2109
2103	STORM SEW CL A 2 12	DIA 12"	7	1.41	-	83	2104	2105
2104	STORM SEW CL A 1 12	DIA 12"	8	1.23	-	83	2106	2107
2105	STORM SEW CL A 2 12	DIA 12"	1	14.07	0.3	83	2108	2109
2106	STORM SEW CL A 2 18	DIA 18"	191	1.05	164.2	83	2109	2112
2107	STORM SEW CL A 1 12	DIA 12"	96	1.46	9.3	83	2110	2111
2108	STORM SEW CL A 1 12	DIA 12"	1	16.00	-	84	2111	2112
2110	STORM SEW CL A 1 15	DIA 15"	20	2.50	-	84	2113	2114
2111	STORM SEW CL A 2 15	DIA 15"	76	0.53	33.8	84	2115	2111
2112	STORM SEW CL A 2 12	DIA 12"	33	0.60	8.7	84	2116	2115
2113	STORM SEW CL A 2 12	DIA 12"	23	0.64	-	84	2118	2116
2114	SS CL A EQRS 48	DIA60"X38"	272	0.13	417.2	84	2112	2117
2115	STORM SEW CL A 1 12	DIA 12"	5	2.11	-	84	2120	2119
2116	STORM SEW CL A 1 15	DIA 15"	24	2.08	-	84	2121	2122
2117	SS CL A EQRS 48	DIA60"X38"	225	0.13	102.7	84	2117	2201
2118	STORM SEW CL A 2 30	DIA 30"	2	0.95	0.8	84	2201	2250
2119	STORM SEW CL A 1 12	DIA 12"	7	2.78	-	84	2126	2125
2120	STORM SEW CL A 1 12	DIA 12"	9	1.74	-	84	2128	2127
2121	STORM SEW CL A 1 15	DIA 15"	20	3.06	-	84	2129	2130
2122	STORM SEW CL A 1 12	DIA 12"	1	3.20	0.1	84	2124	2201
2130	STORM SEW CL A 2 12	DIA 12"	57	0.52	0.6	83	2105	2106
2200	STORM SEW CL A 2 18	DIA 18"	63	0.95	2.0	84	2200	2131
2201	STORM SEW CL A 2 30	DIA 30"	6	0.49	-	84	2250	2202
2202	STORM SEW CL A 1 12	DIA 12"	8	0.88	-	84	2204	2203
2203	STORM SEW CL A 1 12	DIA 12"	7	6.15	-	84	2206	2205
2205	STORM SEW CL A 1 12	DIA 12"	9	1.67	0.7	84	2207	2208
2206	STORM SEW CL A 1 12	DIA 12"	6	1.67	-	84	2212	2211

ES = CONNECT TO EXISTING STRUCTURE



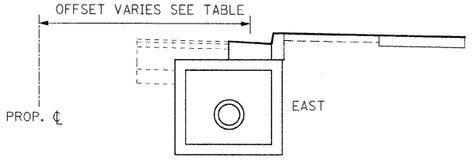
TYPICAL OFFSET AND RIM
FOR STRUCTURES
DETAIL A



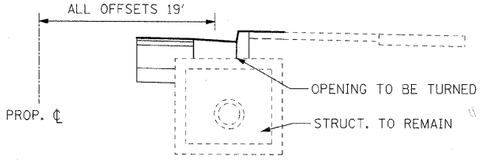
OFFSET AND INVERT
FOR FLARED END SECTIONS
DETAIL B

NOTES:

1. OFFSETS FOR DRAINAGE STRUCTURES ARE TO THE CENTER OF THE LID OR GRATE. (SEE DETAIL A) EXCEPTIONS ARE DRAINAGE STRUCTURES WITH RESTRICTORS.
2. RIM ELEVATIONS FOR DRAINAGE STRUCTURES IN GUTTERS ARE AT THE FACE OF CURB. (SEE DETAIL A)
3. OFFSETS FOR DRAINAGE STRUCTURES WITH RESTRICTORS (WITH TWO LIDS OR GRATES) ARE TO THE CENTER OF THE STRUCTURE. (SEE DRAINAGE DETAIL SHEET 86)
4. OFFSETS AND INVERT ELEVATIONS FOR FLARED END SECTIONS ARE AT THE CONNECTION WITH THE STORM SEWER. (SEE DETAIL B)
5. ADD 2 FOOT SUMP TO ALL 6 FOOT MANHOLES AND RESTRICTOR MANHOLES.
6. FOR CATCH BASINS 701, 708, 711, 714 AND 716 THE ORIENTATION OF THE OPENING SHOULD BE TO THE FAR EAST OF THE STRUCTURE (SEE DETAIL C.) THE OPENING FOR THESE STRUCTURES WILL NEED TO BE TURNED TOWARD THE WEST IN A FUTURE CONTRACT TO ACCOMMODATE A FUTURE CURB & GUTTER (SEE DETAIL D.)
7. DRYWELL 1304 SHALL BE CONSTRUCTED TO A BOTTOM ELEVATION OF 840.00. (SEE CRYSTAL LAKE DRY WELL STANDARD DETAIL.)



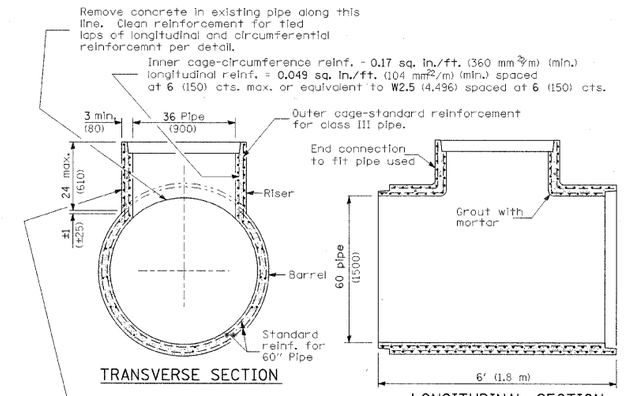
OPENING ORIENTATION FOR STRUCTURES IN NOTE 6
CURRENT CONTRACT
DETAIL C



OPENING ORIENTATION FOR STRUCTURES IN NOTE 6
FUTURE CONTRACT
DETAIL D (FOR INFORMATION ONLY)

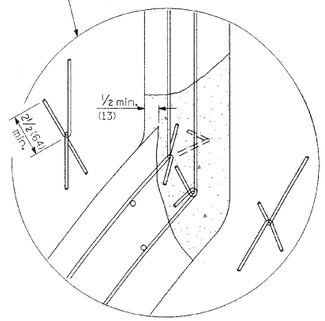
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-01-FP	MCHENRY	236	72
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63266

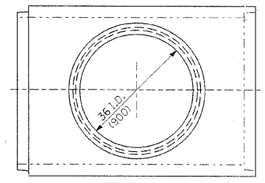


TRANSVERSE SECTION

LONGITUDINAL SECTION



Tied Lap



PLAN
Tee with 36 (900) Riser

REINFORCED CONCRETE PIPE TEE
N.T.S

LEGEND

DS-XXXX	STRUCTURE NO.	PROP INLET		R	REMOVE STRUCTURE
SS-XXXX	PIPE NO.	PROP CATCH BASIN		A	ADJUST STRUCTURE
	PIPE REMOVAL	PROP MANHOLE			CONCRETE HEADWALL FOR PIPE DRAINS
	PROP RIP RAP	PROP STORM SEWER			DRY WELL
	EX INLET	PROP PIPE UNDERDRAINS, 6"		EXISTING UTILITIES	
	EX CATCH BASIN	PROP DITCH		T	TELEPHONE
	EX MANHOLE	PROP SWALE		CTV	CABLE TELEVISION
	EX STORM SEWER	PROP FLARED END SECTION		W	WATER
	EX SANITARY SEWER	PROP LEFT DITCH PROF		G	GAS
	EX DITCH	PROP RIGHT DITCH PROF		E	ELECTRIC
	EX WETLANDS	DET BASIN HWL			

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

DRAINAGE SCHEDULE
5 OF 5

SCALE: SCALE1 DRAWN BY: LAK
DATE: 12/01/09 CHECKED BY: TKL

TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE: 312/616-0000

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KRAUTLA