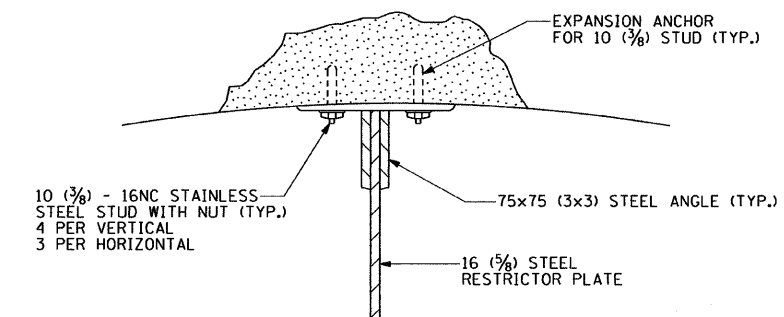
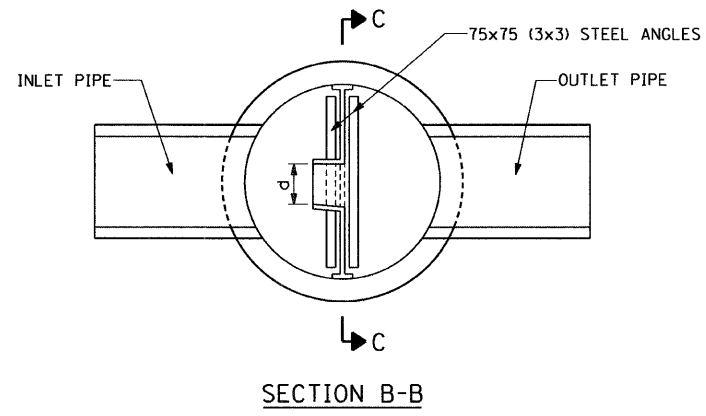
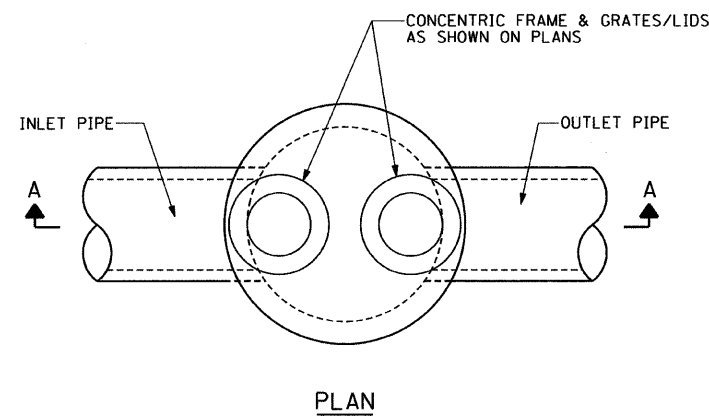
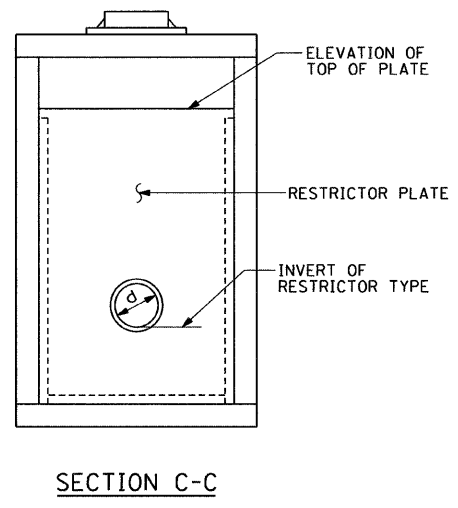
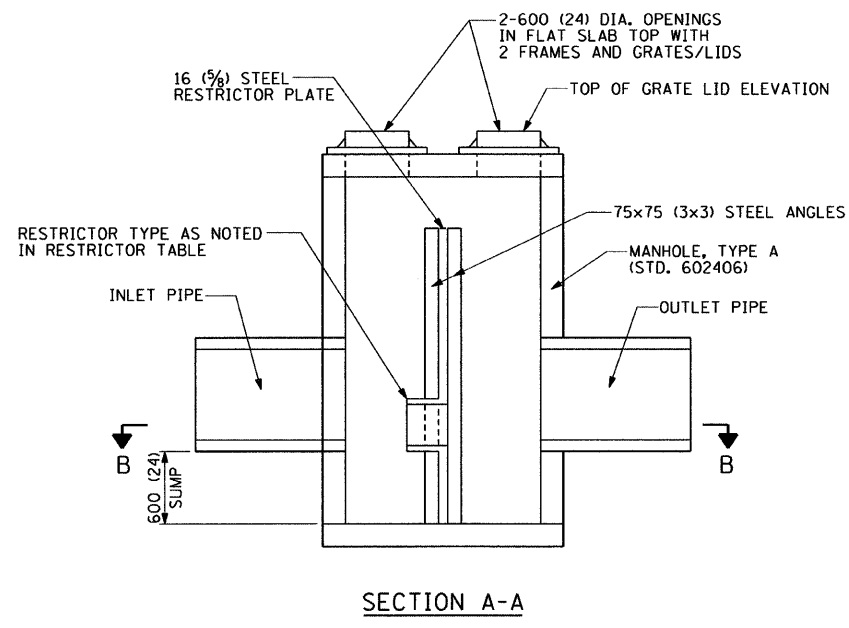


F.A. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
866	*	LAKE	554	325
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
*(L-2[W,R];6,6A & 6 EXT) WRS-1				

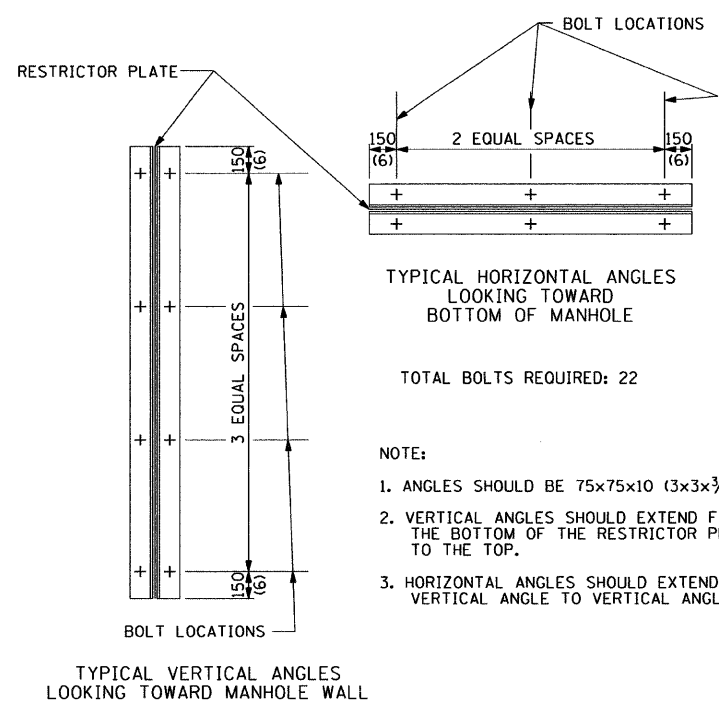
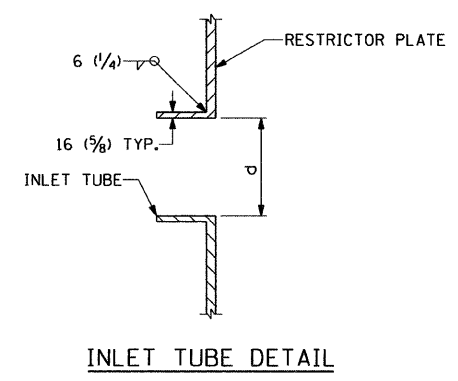


ANGLE FASTENER DETAIL



NOTES:

1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
3. BASIS OF PAYMENT: "MANHOLES, TYPE A, 1.8m (6FT.)-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE" EACH



RESTRICTOR TYPE					
1	2	3	4	5	6
RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED
LENGTH: 1/2 TO 1 DIA.		STREAM CLEARS SIDES	LENGTH: 2-1/2 TO 1 DIA.	LENGTH: 2-1/2 TO 1 DIA.	
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

ROADWAY	STATION	MANHOLE DIA (ft.)	FRAME & GRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER (in.)	INVERT OF RESTRICTOR TYPE	ELEVATION OF TOP OF PLATE OVERFLOW	STRUCTURE NUMBER
IL RTE 83	297+28.78	6	TY 1 FR, CL	2	5	782.88	785.04	313
IL RTE 83	297+36.72	6	TY 1 FR, CL	2	6	782.97	784.97	314
IL RTE 83	318+03.30	7	TY 1 FR, CL	2	14	790.25	792.74	371
IL RTE 173	27+70.00	6	TY 1 FR, CL	2	12	785.42	788.92	853
IL RTE 83	405+19.50	6	TY 1 FR, CL	2	14	784.28	788.90	484
NORTH AVE	36+70.00	6	TY 1 FR, CL	2	10	795.88	799.95	726

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION ILLINOIS ROUTE 83 FROM THE WISCONSIN STATE LINE TO NORTH OF PETITE LAKE ROAD
NAME	DATE	
		<p style="text-align: center;">MANHOLE WITH RESTRICTOR PLATE</p> <p style="text-align: right;">DRAWN BY: EUB CHECKED BY: RJS</p> <p style="text-align: right;">DATE: 1/30/09</p> <p style="text-align: right;">GRAEF, ANHALT, SCHLOEMER & ASSOCIATES, INC. CHICAGO, ILLINOIS</p>