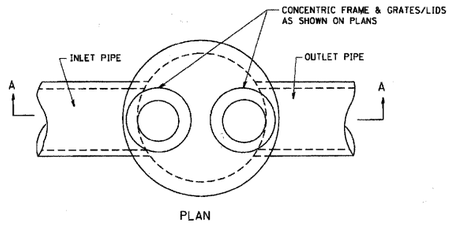
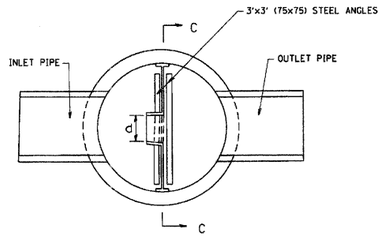
CONTRACT NO.

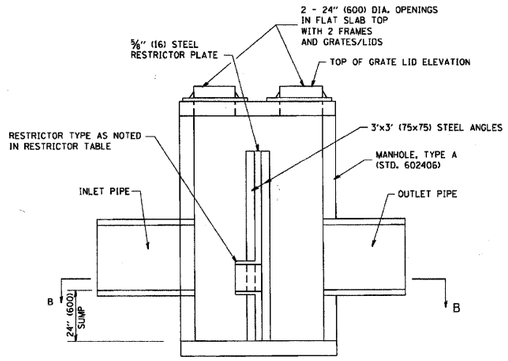
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



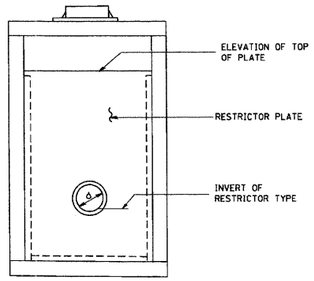
PLAN



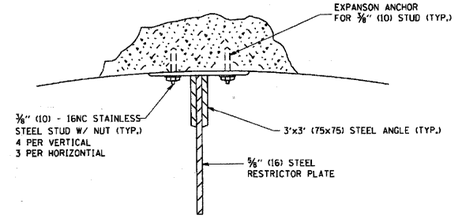
SECTION B-B



SECTION A-A

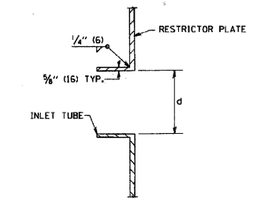


SECTION C-C



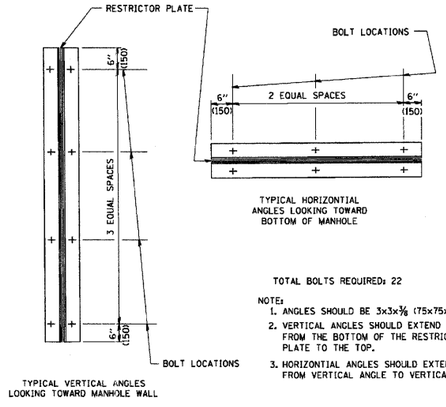
ANGLE FASTENER DETAIL

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, 6 FT. (1.8 m)-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE" EACH



INLET TUBE DETAIL

STATION	MANHOLE DIAMETER	FRAME AND GRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER In. (mm) (d)	INVERT OF RESTRICTOR TYPE	ELEVATION OF TOP OF PLATE OVERFLOW
13+03	**6 FEET**	**TYPE 1**	**2**	**9 INCHES**	**864.00**	**867.50**



TOTAL BOLTS REQUIRED: 22

NOTE:
1. ANGLES SHOULD BE 3x3x⅜ (75x75x75)
2. VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
3. HORIZONTAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.

STEEL ANGLE BOLTING DETAILS

RESTRICTOR TYPE					
1	2	3	4	5	6
RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED
LENGTH 1½ TO 1 DIA.		STREAM CLEARS SIDES	LENGTH 2-½ DIA.	LENGTH 2-½ 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 INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
R. SHAH	09/09/94
R. SHAH	10/25/94
E. GOMEZ	08/28/00
M. GOMEZ	01/08/01

ILLINOIS DEPARTMENT OF TRANSPORTATION

MANHOLE WITH RESTRICTOR PLATE

SCALE: VERT. NONE HORIZ.

DRAWN BY

CHECKED BY

BD600-04 (BD-12)

PLOT DATE = 3/5/2007
FILE NAME = c:\projects\bd12.dgn
PLOT SCALE = 50.0000 '/ IN.
USER NAME = bauerdl

FILE NAME =	DESIGNED LSM	REVISED -	
	DRAWN AO	REVISED -	
USER NAME = TRICE	CHECKED OIU	REVISED -	
PLOT DATE = 03/28/2011	DATE 03/28/2011	REVISED -	

2IM GROUP
2IM Group, LLC
203 North Wabash Avenue
Suite 804
Chicago, IL 60601

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

VILLAGE OF LAKE ZURICH
DRAINAGE CONTROL STRUCTURE

SCALE: | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3504	09-00071-00-SW	LAKE	27	22
		CONTRACT NO. 63589		
	ILLINOIS	FED. AID PROJECT		