



SECTION C-C

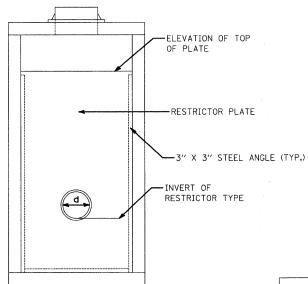
TYPICAL HORIZONTAL ANGLES LOOKING TOWARD BOTTOM OF MANHOLE

1. ANGLES SHOULD BE 3" X 3" X 5%" 2. VERTICAL ANGLES SHOULD EXTEND FROM BOTTOM OF THE RESTRICTOR

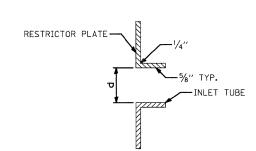
3. HORIZONTIAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE

TOTAL BOLTS REQUIRED: 22

PLATE TO THE TOP.



-BOLT LOCATIONS



-EXPANSION ANCHOR FOR 3/8" STUD (TYP.)

-%" STEEL

RESTRICTOR PLATE

' X 3" STEEL ANGLE (TYP.)

INLET TUBE DETAIL

RESTRICTOR TYPE						
1	1 2		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	ENGTH: 2-1/2 DIA.	ENGTH: 2-1/2 DIA.		
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98	
VALUES OF ADD STRUMAR						

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

3/8" 16NC STAINLESS— STEEL STUD W/ NUT (TYP.)

4 PER VERTICAL

3 PER HORIZONTIAL

- 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. DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE" PER EACH

STEEL ANGLE BOLTING DETAILS

CIVILTECH	
CIVILIECT	

USER NAME = mjp	DESIGNED -	MJP	REVISED -
	DRAWN -	MJP	REVISED -
PLOT SCALE = 50.0000 '/ IN.	CHECKED -	DNM	REVISED -
PLOT DATE = 3/27/2009	DATE -	3/30/09	REVISED -

KANE COUNTY **DIVISION OF TRANSPORTATION**

-BOLT LOCATIONS

-RESTRICTOR PLATE-

DRAINAGE	AND	UTILITIES	- STEARN	S ROAD	
MANHOLE	WITH	RESTRICT	OR PLATE	DETAIL	

SECTION TOTAL SHEE SHEETS NO. COUNTY 361 06-00214-25-BR KANE 220 72 CONTRACT NO. 63076 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

SHEET NO. 10 OF 14 SHEETS STA.