



RESTRICTOR TYPE AS NOTED IN RESTRICTOR TABLE-

INLET PIPE

В

THE CONTRACTOR MAY USE THE 18" CAST IRON PIPE AND THE FULL DEPTH OF THE MANHOLE TO DISCHARGE GROUNDWATER FROM THE CONSTRUCTION OF THE HORIZONTAL COLLECTOR WELL TO THE BOWMAN AVENUE PUMP STATION.

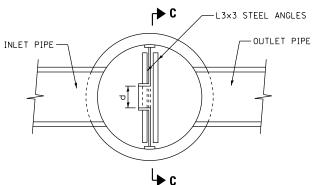
-CAST-IN-PLACE CONCRETE FLOOR 6" (CONSTRUCT ONCE HORIZONTAL COLLECTOR WELL IS FULLY OPERATIONAL)

-FILL WITH FA-1 OR FA-2 (CONSTRUCT ONCE HORIZONTAL COLLECTOR WELL IS FULLY OPERATIONAL)

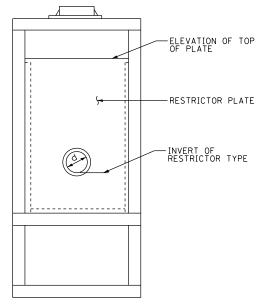
-OUTLET PIPE

ONCE THE HORIZONTAL COLLECTOR WELL IS OPERATIONAL. THE RESTRICTOR PLATE AND FALSE CONCRETE FLOOR SHALL BE CONSTRUCTED.

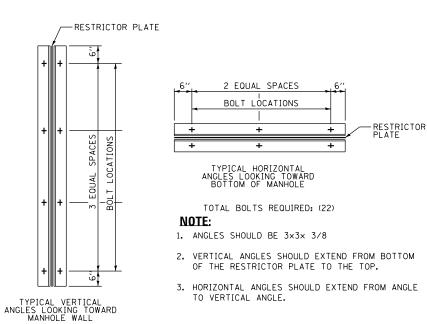
CALL OUT	MANHOLE DIAMETER	FRAME AND FRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER INCHES (d)	INVERT OF RESTRICTOR TYPE	ELEVATION OF TOP OF PLATE OVERFLOW
А3	7′	TY 1	1	12''	412.00	418.00
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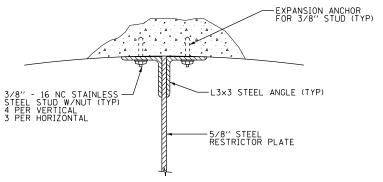


SECTION B-B NOT TO SCALE



SECTION C—C NOT TO SCALE

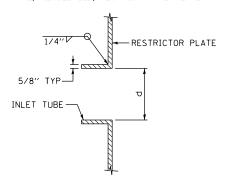




ANGLE FASTENER DETAIL

NOTES:

- 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" EACH



INLET TUBE DETAIL

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 DÍA	LENGTH: 2-1/2 DIA	
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

STEEL ANGLE BOLTING DETAILS

0 =		U
NAME	KLINGNER	
Ž	& ASSOCIATES, P.C.	Р
Ξ	Engineers • Architects • Surveyors	Р

	USER NAME = seb	DESIGNED - SEB	REVISED -
		DRAWN - BGJ	REVISED -
	PLOT SCALE = 0.1667 ' / in.	CHECKED -	REVISED -
s	PLOT DATE = 8/23/2014	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS – MANHOLE WITH RESTRICTOR PLATE		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MISSOURI AVENUE DEEP WELL FACILITY	64	82-4T-1	ST. CLAIR	185	63
WIISSOOM AVENUE DEEL WEEL LAGIENT			CONTRACT	NO. 7	76G99
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT				