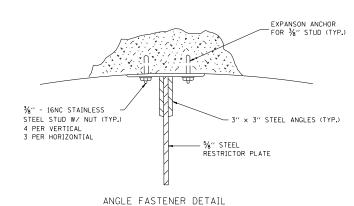
F. A. RTE.	SECTION		COUN	TY	SHEETS	SHEET
668	28R-1		SANGA	MON	354	165
STA.	5+250	Т	O STA.	5+4	00	
FED. R	IOAD DIST. NO.	ILLINOIS		FEO	. AID PROJECT	

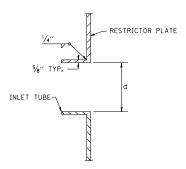
CONTRACT NO. 72501



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 STRUCTURE.



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

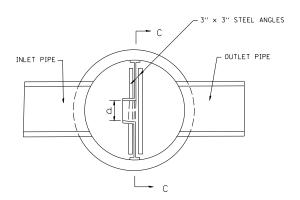
VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN. ILLINOIS DEPARTMENT OF TRANSPORTATION

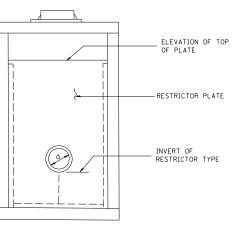
		REVISIO
CC	DATE	NAME
F		
١.		

ONTROL STRUCTURE WITH RESTRICTOR PLATE

F.A.P. ROUTE 668 (DIRKSEN PARKWAY) SECTION 28R-1 SANGAMON COUNTY

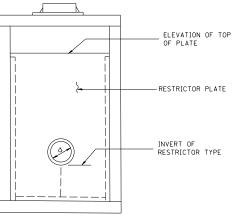


SECTION B-B



SECTION C-C

TYPICAL VERTICAL ANGLES LOOKING TOWARD STRUCTURE WALL



ELEVATION 0F TOP OF PLATE OVERFLOW 178.72 178.72 179.65 179.72 179.75 179.57

RESTRICTOR PLATE -BOLT LOCATIONS -2 EQUAL SPACES TYPICAL HORIZONTIAL ANGLES LOOKING TOWARD BOTTOM OF STRUCTURE TOTAL BOLTS REQUIRED: 22 NOTE: 1. ANGLES SHOULD BE 3"×3"×3%" 2. VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP. - BOLT LOCATIONS 3. HORIZONTIAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.

BASIS OF PAYMENT: CONTROL STRUCTURE, RESTRICTOR PLATE WITH THE FRAME AND GRATE AND DIAMETER SPECIFIED.

STATION/

OFFSET

STA. 5+925.00; 0/S 13.7 LT

STA. 5+925.00; 0/S 15.2 RT

STA. 6+172.26; 0/S 12.6 LT

STA. 6+200.00; 0/S 12.6 LT

STA. 6+187.50; 0/S 10.2 RT

STA. 6+172.26; O/S 10.2 RT

- OUTLET PIPE

- RIM ELEVATION

← 3" × 3" STEEL ANGLES

CONTROL STRUCTURE

- OUTLET PIPE

RESTRICTOR

TYPE

TYPE 6

TYPE 6

TYPE 6

TYPE 6

TYPE 6

TYPE 6

FRAME AND

GRATE

CLOSED LID

CLOSED LID

CLOSED LID

CLOSED LID

CLOSED LID

CLOSED LID

RESTRICTOR

DIAMETER

300 MM

250 MM

150 MM

175 MM

200 MM

150 MM

INVERT OF

RESTRICTOR

TYPE

177.52

177.52

179.05

179.12

179.00

178.97

PLAN

SECTION A-A

STRUCTURE

DIAMETER

2.1 M

2.7 M

1.2 M

1.5 M

1.5 M

1.2 M

%" STEEL RESTRICTOR PLATE

FLAT SLAB TOP -

INLET PIPE-

RESTRICTOR TYPE AS NOTED -IN RESTRICTOR TABLE

В

RESTRICTOR

STRUCTURE

NO.

4

STEEL ANGLE BOLTING DETAILS