



NOTE:
1. INSTALLATION PROCEDURE FOR PIPE ARCH IDENTICAL WITH ROUND PIPE.
2. IN NO CASE SHALL PIPE BE FOUNDED ON SOIL.
3. CLEAR SPACING BETWEEN MULTIPLE CULVERTS TO BE DIAMETER OF LARGER PIPE - CLEAR SCRAPER WIDTH PREFERRED.
4. READ CAREFULLY SUPPLIER'S INSTRUCTIONS FOR DETAILS OF S.P.C.I.P. CULVERT ASSEMBLY.
5. WHEN STONES OF SUITABLE SIZE ARE NOT ECONOMICALLY AVAILABLE, CEMENT-SANDBAG RIP-RAP SHALL BE MANUFACTURED AND PLACED AS PER SPECIFICATIONS FOR THAT WORK.

NO.	DATE	DESCRIPTION	BY
4	JUNE 7/60	OUTLET RIP-RAP CHANGED	F.M.
3	APRIL 29/59	ARCH SIZES CHANGED	D.G.L.
2	APRIL 8/58	FOUNDATION COMPACTION NOTES ADDED	E.J.S.
1	JUNE 1/55	NOTE 5 ADDED	E.J.S.

**TABLE 1
SIZE AND SPACING OF STRUTS**

PIPE DIAMETER	MINIMUM STRUT SIZE (IN)	HEIGHT OF COVER IN FEET								
		5	10	15	20	30	40	50	70	
60" R	72"x44"	4"x4"	6.0	6.0	6.0	6.0	4.0	3.0		
72" R	84"x61"	4"x6"	6.0	6.0	6.0	6.0	4.5	3.5	3.0	
84" R	96"x69"	4"x6"	6.0	6.0	6.0	5.0	3.0	3.0	4.5	3.5
96" R	117"x79"	4"x6"	6.0	6.0	6.0	4.5	3.0	3.0	4.0	3.0
108" R	137"x87"	4"x6"	6.0	6.0	6.0	4.5	3.0	3.0	5.0	6.0
120" R	150"x99"	4"x6"	6.0	6.0	6.0	4.0	3.0	3.0	5.0	6.0
132" R	169"x109"	4"x6"	6.0	6.0	6.0	4.0	3.0	3.0	5.0	6.0
144" R	186"x113"	4"x6"	6.0	6.0	6.0	4.5	3.0	3.0	5.0	6.0
156" R		4"x6"	6.0	6.0	6.0	4.5	3.0	3.0	5.0	6.0
168" R		4"x6"	6.0	6.0	6.0	4.5	3.0	3.0	5.0	6.0

STRUTS MAY BE OMITTED WHEN CAREFUL PREPARATION OF THE FOUNDATION, BEDDING, AND BACKFILL IS TO A FIRST CLASS STANDARD.
SUPERSEDED BY S-1086

INSTALLATION PROCEDURE FOR LARGE METAL CULVERTS C.I.P. AND S.P.C.I.P. 1955

GOVERNMENT OF THE PROVINCE OF ALBERTA
DEPARTMENT OF HIGHWAYS
BRIDGE BRANCH, EDMONTON

FILE NO. _____ HWY. NO. _____ DWG. NO. **5-521**
LOCATION _____ SCALE _____ SHEET _____ OF _____