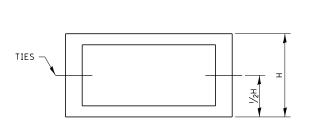
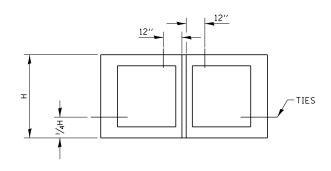


TOP VIEW

THE CULVERT TIES SHALL BE INCLUDED IN THE COST OF THE CONCRETE PIPE CULVERTS OR THE PRECAST CONCRETE BOX CULVERT. THE MECHANICAL TIES SHALL BE ON THE OUTSIDE OF THE CULVERT. THE NUTS AND WASHERS SHALL BE PLACED ON THE INSIDE OF THE CULVERT AND COVERED WITH MASTIC JOINT SEALER CONFORMING TO ARTICLES 1055 OR 1056 IN THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.





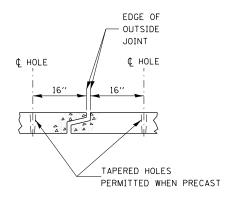
PLACEM	PLACEMENT OF HOLES							
BOX CULVERT	PIPE SIZE	THREAD						
		DIAMETER						
FEET	INCHES	INCHES						
	12	5/8 ROLLED						
	15							
	18	THREADS						
	21	(SEE						
	24	NOTE 4)						
	27							
	30							
3 x 2	33	3/4						
3 x 3	36							
4 x 2	42	CUT						
4 x 3	48	OR						
4 x 4	54	ROLLED						
5 x 3	60							
5 x 4	66 72							
5 x 5 6 x •	78							
	84	1						
7 x *	90	CUT						
8 x *	96	OR						
10 x *	102	ROLLED						
10 X -	108	NOLLED						
	120							
	132							
11 x *	138	1 1/4						
AND GREATER	AND GREATER							

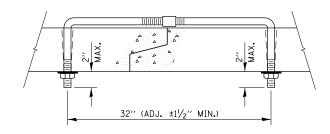
#### NOTES:

- 1. HOLES SHALL BE CAST-IN OR DRILLED 16" FROM OUTSIDE EDGE OF JOINT.
- 2. NUTS AND WASHERS ARE NOT REQUIRED ON INSIDE OF 27" DIAMETER PIPE OR LESS.
- 3. TIES ARE NOT REQUIRED FOR BELL PIPE 24" AND SMALLER. ON OTHER SIZES TIE MAY BE INSERTED FROM INSIDE.
- 4. CUT THREADS MAY BE USED IF WASHER AND NUT ARE USED.
- 5. PIPE SIZE LISTED IS INSIDE DIAMETER OF ROUND PIPE OR EQUIVALENT DIAMETER OF PIPE ARCH OR ELLIPTICAL.
- 6. GALVANIZING OF TIES IS REQUIRED.

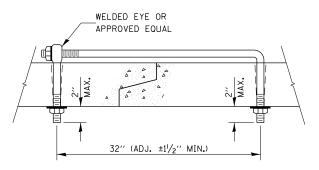




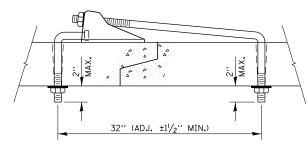




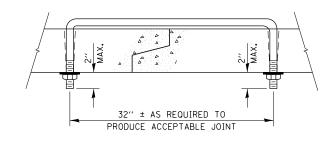
#### <u>ADJUSTABLE TIE</u>



## **EYE BOLT TIE**



## **CANOPY TIE**



# U BOLT TIE

\$MODELNAME\$	PLOT DATE = 7/28/2014	DATE - 7/14/2014	REVISED -
	PLOT SCALE = 40.0000 '/ in.	CHECKED - HA	REVISED -
c:\pw_work\pwidot\woodshankrl\d0362707\0	366D35-sht-details.dgn	DRAWN - RW	REVISED -
FILE NAME =	USER NAME = woodshankrl	DESIGNED - RW	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

P	RECAST	ST CONCRI		RE	TE BOX	CULVERT	DETAILS	
SCALE	20	SHEET	2	OF	2	SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
623	(O)T		Т	LASALLE	16	13
		Т	CONTRACT NO. 66D35			
	ILLINOIS	FED.	AIC	PROJECT		