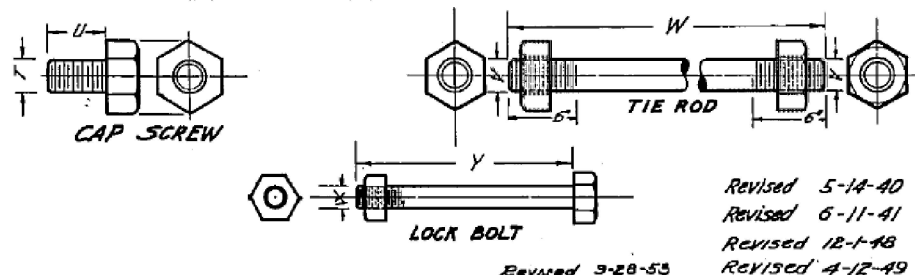


	LUG												WASHER					STUD			Tie Rod		LOCK BOLT			
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	R	Z	M	N	O	P	Q	S	T	U	V	W	X	Y
4	4	3 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>	1/2	3/4	5/8	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	1/4	2 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>	1/2	2.40	3/8	3	2 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	3/8	9/16	1/4	3/8	3/4	1/2	19	1/4	2 <sup>1</sup> / <sub>2</sub>
6	5	3 <sup>3</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>4</sub>	3/4	1/2	1/8	1 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>8</sub>	1/4	2 <sup>3</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	1/2	3.45	3/8	3	2 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>8</sub>	1/16	5/16	3/8	1	5/8	21	3/8	3
8	6	4 <sup>1</sup> / <sub>2</sub>	2 <sup>3</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	1/2	3/4	5/8	2 <sup>3</sup> / <sub>8</sub>	1/4	2 <sup>3</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>4</sub>	1/2	4.53	1/2	3 <sup>3</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>	3/8	3/8	1/2	1	3/4	23	1/2	3 <sup>1</sup> / <sub>2</sub>
12	8	4 <sup>7</sup> / <sub>8</sub>	3	1 <sup>1</sup> / <sub>4</sub>	3/4	1	1 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>8</sub>	3/8	3	2 <sup>1</sup> / <sub>4</sub>	3/4	6.60	1/2	4	3 <sup>1</sup> / <sub>2</sub>	2	1 <sup>7</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>8</sub>	3/8	1/8	1 <sup>1</sup> / <sub>2</sub>	1	27	3/8	3 <sup>3</sup> / <sub>4</sub>
16	8	5 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	1	1 <sup>1</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	3/8	3 <sup>1</sup> / <sub>2</sub>	3	1	8.90	1/2	4 <sup>3</sup> / <sub>4</sub>	4	2 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>8</sub>	3/4	3/4	1 <sup>1</sup> / <sub>2</sub>	1 <sup>1</sup> / <sub>4</sub>	30	3/4	5

Note: All dimensions are in inches.



NOTE:  
 LUGS, TIE RODS, BOLTS AND WASHERS SHALL BE STAINLESS STEEL  
 TYPE 304 OR 316



WATER ENTERPRISE - CITY DISTRIBUTION DIVISION STANDARD PLANS

# MISCELLANEOUS LUGS AND TIE RODS

DATE	10/1/2016	REV.	0	DRAWING NO.	CDD-LP-301	SHEET	93
SCALE	N.T.S.						