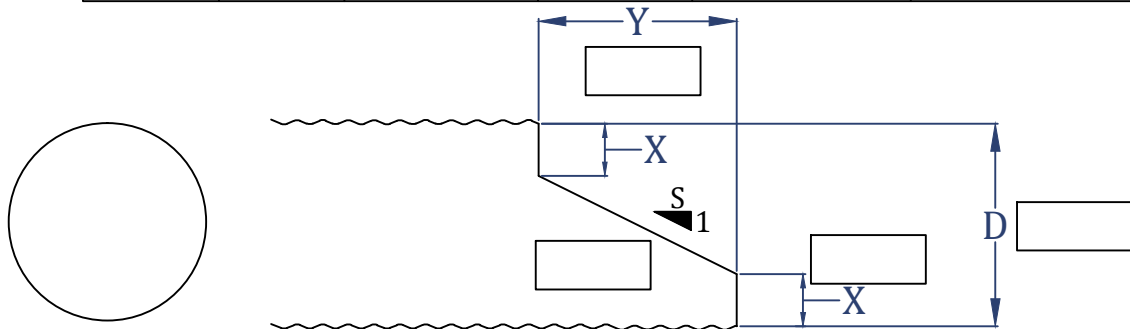


TOP AND BOTTOM STEP BEVELS FOR ROUND PIPE (2 2/3"x1/2", 3"x1", or 5"x1")

DIAMETER (IN)	X (IN)	S = 1 1/2 TO 1 Y(FEET)	S = 2 TO 1 Y(FEET)	S = 2 1/2 TO 1 Y(FEET)	S = 3 TO 1 Y(FEET)
12	3.00	0.75	1.00	1.25	1.50
15	3.75	0.94	1.25	1.56	1.88
18	4.50	1.13	1.50	1.88	2.25
21	5.25	1.31	1.75	2.19	2.63
24	6.00	1.50	2.00	2.50	3.00
30	7.50	1.88	2.50	3.13	3.75
36	9.00	2.25	3.00	3.75	4.50
42	10.50	2.63	3.50	4.38	5.25
48	12.00	3.00	4.00	5.00	6.00
54	13.50	3.38	4.50	5.63	6.75
60	15.00	3.75	5.00	6.25	7.50
66	16.50	4.13	5.50	6.88	8.25
72	18.00	4.50	6.00	7.50	9.00
78	19.50	4.88	6.50	8.13	9.75
84	21.00	5.25	7.00	8.75	10.50
90	22.50	5.63	7.50	9.38	11.25
96	24.00	6.00	8.00	10.00	12.00
102	25.50	6.38	8.50	10.63	12.75
108	27.00	6.75	9.00	11.25	13.50
114	28.50	7.13	9.50	11.88	14.25
120	30.00	7.50	10.00	12.50	15.00
126	31.50	7.88	10.50	13.13	15.75
132	33.00	8.25	11.00	13.75	16.50
138	34.50	8.63	11.50	14.38	17.25
144	36.00	9.00	12.00	15.00	18.00



DESCRIPTION: CSP - TOP & BOTTOM STEP BEVEL FOR ROUND PIPE		PART NO: N/A	
DRAWN BY: C. HOMAN	DATE: APRIL 17, 12	SHEET NO: 5 OF 6	MATERIAL: N/A



CUSTOMER APPROVAL SIGNATURE _____ DATE _____

NO.	REVISION	DATE	DRAWING IS NOT TO SCALE ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED ALL WELDS MUST REPAIRED AFTER FABRICATION (PER ASTM 760) PIPE LENGTHS HAVE A TOLERANCE OF ± 2" PIPE DIAMETERS HAVE A TOLERANCE OF THE GREATER OF ± 1/2" or 1% ALL ANGLES HAVE A TOLERANCE OF ± 3°	TOLERANCES	THIS DESIGN IS PROPERTY OF TRUENORTH STEEL DUPLICATION WITHOUT WRITTEN PERMISSIONS IS STRICTLY PROHIBITED
4	E2016-0001 REMOVE FULL BEVEL PAGES	1/6/2016		XX ± 0.5"	
3	E2015-0336 ADD 2 1/2 TO 1 COL. TO ROUNDS	9/18/2015		X.XX ± 0.25"	
2	ECN-180 REVISED CHARTS	09-14-12		X.XXX ± 0.13"	
1	INITIAL RELEASE RFD-011	04-17-12			