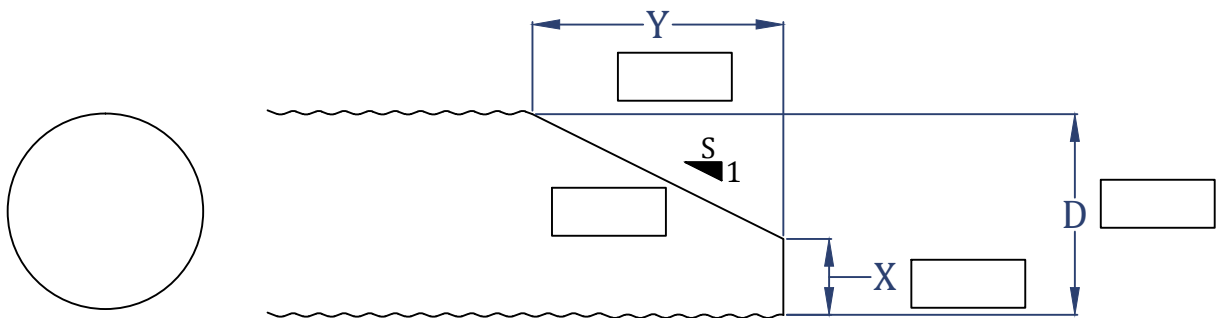


BOTTOM STEP BEVELS FOR ROUND PIPE (2 2/3"x1/2", 3"x1", or 5"x1")

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	1.13	1.50	1.88	2.25
15	5	1.25	1.67	2.08	2.50
18	5	1.63	2.17	2.71	3.25
21	8	1.63	2.17	2.71	3.25
24	8	2.00	2.67	3.33	4.00
30	10	2.50	3.33	4.17	5.00
36	12	3.00	4.00	5.00	6.00
42	12	3.75	5.00	6.25	7.50
48	15	4.13	5.50	6.88	8.25
54	15	4.88	6.50	8.13	9.75
60	18	5.25	7.00	8.75	10.50
66	18	6.00	8.00	10.00	12.00
72	18	6.75	9.00	11.25	13.50
78	24	6.75	9.00	11.25	13.50
84	24	7.50	10.00	12.50	15.00
90	24	8.25	11.00	13.75	16.50
96	24	9.00	12.00	15.00	18.00
102	30	9.00	12.00	15.00	18.00
108	30	9.75	13.00	16.25	19.50
114	30	10.50	14.00	17.50	21.00
120	30	11.25	15.00	18.75	22.50
126	36	11.25	15.00	18.75	22.50
132	36	12.00	16.00	20.00	24.00
138	36	12.75	17.00	21.25	25.50
144	36	13.50	18.00	22.50	27.00



DESCRIPTION: CSP - BOTTOM STEP BEVEL FOR ROUND PIPE			PART NO: N/A
DRAWN BY: C. HOMAN	DATE: APRIL 17, 12	SHEET NO: 3 OF 6	MATERIAL: N/A



CUSTOMER APPROVAL SIGNATURE _____ DATE _____

	E2016-0001 REMOVE FULL BEVEL PAGES	1/6/2016	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	E2015-0336 ADD 2 1/2 TO 1 COL. TO ROUNDS	9/18/2015		XX ± 0.5"	
3	ECN-180 REVISED CHARTS	09-14-12		XXX ± 0.25"	
2	INITIAL RELEASE RFD-011	04-17-12		X.XXX ± 0.13"	
1	REVISION	DATE			