

pen table=\\NDOT\RT\TWS\Vegetation\NDOT\TWS\Projects\NDOT\Eng\plant\TBA\Roadway\Details_13x7.tbl

scale=63.073306:1.000000

date=28-SEP-2016 11:08

ID=TP2VILL

BDCBD-07-ORIGINAL SHEET

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CURB RAMP TYPE 4

0.0 % GUTTER LINE PROFILE					
H INCHES	W FEET	Y INCHES	X _{2U} FEET	X _{2L} FEET	L ₂ FEET
3	2.75	2.75	0.91	0.91	5.82
4			1.91	1.91	7.82
5			2.91	2.91	9.82
6			3.91	3.91	11.82
7			4.91	4.91	13.83
8			5.91	5.91	15.83
9			6.91	6.91	17.83
3			**	**	**
4			**	**	**
5	3.0	3.0	1.72	1.72	7.44
6			2.72	2.72	9.44
7			3.72	3.72	11.45
8			4.72	4.72	13.45
9			5.72	5.72	15.45
3			6.72	6.72	17.45
4			**	**	**
5			**	**	**
6	3.5	3.5	1.34	1.34	6.68
7			2.34	2.34	8.68
8			3.34	3.34	10.69
9			4.34	4.34	12.69
3			5.34	5.34	14.69
4			6.34	6.34	16.69
5			**	**	**
6			**	**	**
7	4.0	4.0	1.96	1.96	7.92
8			2.96	2.96	9.93
9			3.96	3.96	11.93
3			4.96	4.96	13.93
4			5.96	5.96	15.93
5			**	**	**
6			**	**	**
7			**	**	**
8			**	**	**

4.0 % GUTTER LINE PROFILE					
H INCHES	W FEET	Y INCHES	X _{2U} FEET	X _{2L} FEET	L ₂ FEET
3	2.75	2.75	1.75	0.62	6.37
4			3.68	1.29	8.97
5			5.60	1.97	11.57
6			7.53	2.64	14.17
7			9.45	3.32	16.77
8			11.38	4.00	19.37
9			13.30	4.67	21.97
3			1.39	0.49	5.88
4			3.31	1.16	8.48
5	3.0	3.0	5.24	1.84	11.08
6			7.16	2.52	13.68
7			9.09	3.19	16.28
8			11.01	3.87	18.88
9			12.94	4.54	21.48
3			0.66	0.23	4.89
4			2.58	0.91	7.49
5			4.51	1.58	10.09
6	3.5	3.5	6.43	2.26	12.69
7			8.36	2.93	15.29
8			10.28	3.61	17.89
9			12.20	4.29	20.49
3			**	**	**
4			**	**	**
5			1.85	0.65	6.50
6			3.78	1.33	9.10
7	4.0	4.0	5.70	2.00	11.70
8			7.62	2.68	14.30
9			9.55	3.35	16.90
3			11.47	4.03	19.50
4			**	**	**
5			**	**	**
6			**	**	**
7			**	**	**
8			**	**	**

1.0 % GUTTER LINE PROFILE					
H INCHES	W FEET	Y INCHES	X _{2U} FEET	X _{2L} FEET	L ₂ FEET
3	2.75	2.75	1.04	0.81	5.85
4			2.17	1.71	7.88
5			3.31	2.60	9.91
6			4.45	3.49	11.94
7			5.58	4.39	13.97
8			6.72	5.28	16.00
9			7.86	6.17	18.03
3			0.82	0.64	5.46
4			1.96	1.54	7.49
5	3.0	3.0	3.09	2.43	9.52
6			4.23	3.32	11.55
7			5.37	4.22	13.58
8			6.50	5.11	15.61
9			7.64	6.00	17.64
3			0.39	0.30	4.69
4			1.53	1.20	6.72
5			2.66	2.09	8.75
6	3.5	3.5	3.80	2.98	10.78
7			4.94	3.88	12.81
8			6.07	4.77	14.84
9			7.21	5.66	16.87
3			**	**	**
4			**	**	**
5			1.09	0.86	5.95
6			2.23	1.75	7.98
7	4.0	4.0	3.37	2.65	10.01
8			4.50	3.54	12.04
9			5.64	4.43	14.07
3			6.78	5.32	16.10
4			**	**	**
5			**	**	**
6			**	**	**
7			**	**	**
8			**	**	**

5.0 % GUTTER LINE PROFILE					
H INCHES	W FEET	Y INCHES	X _{2U} FEET	X _{2L} FEET	L ₂ FEET
3	2.75	2.75	2.28	0.57	6.85
4			4.78	1.19	9.98
5			7.29	1.82	13.10
6			9.79	2.45	16.23
7			12.29	3.07	19.36
8			14.79	3.70	22.49
9			15.00	4.32	23.32
3			1.80	0.45	6.26
4			4.31	1.08	9.38
5	3.0	3.0	6.81	1.70	12.51
6			9.31	2.33	15.64
7			11.81	2.95	18.77
8			14.32	3.58	21.89
9			15.00	4.20	23.20
3			0.85	0.21	5.07
4			3.36	0.84	8.20
5			5.86	1.46	11.32
6	3.5	3.5	8.36	2.09	14.45
7			10.86	2.71	17.58
8			13.37	3.34	20.71
9			15.00	3.96	22.96
3			**	**	**
4			**	**	**
5			2.41	0.60	7.01
6			4.91	1.23	10.14
7	4.0	4.0	7.41	1.85	13.26
8			9.91	2.48	16.39
9			12.42	3.10	19.52
3			14.92	3.73	22.65
4			**	**	**
5			**	**	**
6			**	**	**
7			**	**	**
8			**	**	**

NOTES:

1. FOR CURB RAMP TYPES, SEE CD-606-1.
2. THE ABOVE TABLES ARE BASED ON THE SPECIFIC GUTTER PROFILE REFERENCED. THEY DO NOT TAKE INTO ACCOUNT VARIATIONS IN THE GUTTER PROFILE. THE ABOVE TABLES TO BE USED BY THE DESIGNERS AND CONTRACTORS TO GET APPROXIMATE DIMENSIONS OF THE CURB RAMP AT EACH LOCATION. FINAL DIMENSIONS WILL BE DETERMINED BY ACTUAL MEASUREMENTS IN THE FIELD DURING CONSTRUCTION.
3. THE 12H:1V MAX SLOPE IS THE RUNNING SLOPE FOR CURB RAMPS, BUT ONLY THE 12H:1V SLOPE MEASURED AS X IS THE RUNNING SLOPE FOR TYPE 3 AND TYPE 4 CURB RAMPS. ENSURE THE RUNNING SLOPE OF CURB RAMPS DOES NOT REQUIRE ITS LENGTH TO EXCEED 15 FEET. THE RUNNING SLOPE MAY EXCEED THE 12H:1V MAX SLOPE SO AS NOT TO EXCEED THE 15 FEET MAXIMUM LENGTH. THE TABLES ALREADY APPLY THE 15 FEET RULE FOR THOSE CALCULATED LENGTHS WHICH EXCEED 15 FEET.
4. DIMENSIONS SHOWN IN TABLES ARE FOR 3 INCH TO 9 INCH CURB HEIGHTS. WHERE THE CURB HEIGHTS ARE OTHER THAN WHAT IS PROVIDED IN THE TABLES, THE DIMENSIONS OF THE RAMPS WILL HAVE TO BE CALCULATED BASED ON CROSS SLOPES SHOWN.

2.0 % GUTTER LINE PROFILE					
H INCHES	W FEET	Y INCHES	X _{2U} FEET	X _{2L} FEET	L ₂ FEET
3	2.75	2.75	1.20	0.73	5.93
4			2.52	1.54	8.06
5			3.83	2.35	10.18
6			5.15	3.16	12.30
7			6.47	3.96	14.43
8			7.78	4.77	16.55
9			9.10	5.58	18.67
3			0.95	0.58	5.53
4			2.27	1.39	7.65
5	3.0	3.0	3.58	2.20	9.78
6			4.90	3.00	11.90
7			6.22	3.81	14.02
8			7.53	4.62	16.15
9			8.85	5.42	18.27
3			0.45	0.28	4.72
4			1.77	1.08	6.85
5			3.08	1.89	8.97
6	3.5	3.5	4.40	2.70	11.09
7			5.72	3.50	13.22
8			7.03	4.31	15.34
9			8.35	5.12	17.46
3			**	**	**
4			**	**	**
5			1.27	0.78	6.04
6			2.58	1.58	8.16
7	4.0	4.0	3.90	2.39	10.29
8			5.22	3.20	12.41
9			6.53	4.00	14.53
3			7.85	4.81	16.66
4			**	**	**
5			**	**	**
6			**	**	**
7			**	**	**
8			**	**	**

6.0 % GUTTER LINE PROFILE					
H INCHES	W FEET	Y INCHES	X _{2U} FEET	X _{2L} FEET	L ₂ FEET
3	2.75	2.75	3.26	0.53	7.79
4			6.84	1.11	11.95
5			10.41	1.69	16.10
6			13.99	2.27	20.26
7			15.00	2.86	21.86
8			15.00	3.44	22.44
9			15.00	4.02	23.02
3			2.58	0.42	7.00
4			6.16	1.00	11.16
5	3.0	3.0	9.73	1.58	15.31
6			13.31	2.16	19.47
7			15.00	2.75	21.75
8			15.00	3.33	22.33
9			15.00	3.91	22.91
3			1.22	0.20	5.42
4			4.80	0.78	9.58
5			8.37	1.36	13.74
6	3.5	3.5	11.95	1.94	17.89
7			15.00	2.52	21.52
8			15.00	3.11	22.11
9			15.00	3.69	22.69
3			**	**	**
4			**	**	**
5			3.44	0.56	8.00
6			7.02	1.14	12.16
7	4.0	4.0	10.59	1.72	16.31