


1 Row Scoreboards (See 241-0413 for bracket dimensions)						
Model	Length	Height	Weight	Weight w/ETN	Dim "A"	Dim "B"
1650	8'	3' 3/32"	90	N/A	1'	6'
1610, 1620, 3650	10'	4' 3/32"	130	N/A	1'	8'
1625	10'	5' 3/32"	160	N/A	1'	8'
1632, 3602	12'	5' 3/32"	180	235	2'	8'
9652	9'	4' 3/32"	110	N/A	6"	8'
1600	16'	5' 3/16"	260	315	4'	8'
5633	18'	2' 3/32"	150	N/A	4'	10'
PCD-08	8'	18 3/32"	50	N/A	1'	6'
PCD-10	10'	2' 3/32"	80	N/A	1'	8'
PCD-16	16'	2' 3/32"	130	N/A	4'	8'
PCD-18	18'	2' 3/32"	150	N/A	4'	10'
2 Row Scoreboards (See 241-0413 for bracket dimensions)						
Model	Length	Height	Weight	Weight w/ETN	Dim "A"	Dim "B"
9660	10'	6' 3/16"	200	N/A	1'	8'
5625	12'	8' 3/16"	290	N/A	2'	8'
3655, 3658	16'	5' 3/16"	260	315	4'	8'
1609, 1635	16'	6' 3/16"	290	345	4'	8'
1615	16'	7' 9/32"	350	405	4'	8'
1608, 5634	18'	6' 3/16"	320	375	4'	10'
1630, 1640, 3600, 3614, 3634, 3656, 5635	18'	8' 3/16"	420	482	4'	10'
3625	18'	9' 3/16"	460	522	4'	10'
3680	18'	8' 3/16"	N/A	590	4'	10'
3 Row Scoreboards (See 241-0413 for bracket dimensions)						
Model	Length	Height	Weight	Weight w/ETN	Dim "A"	Dim "B"
7680	18'	10' 6 5/8"	N/A	710	4'	10'
7604, 7614, 7624	18'	10' 6 9/32"	530	592	4'	10'
9650	16'	10' 3/16"	490	N/A	4'	8'

- General Notes:**
1. Column steel to be grade A992 (50 ksi steel minimum).
  2. Bracing steel to be ASTM A500 Grade B minimum (see note 2 on sheets 3-7).
  3. Minimum bolt grade: A307
  4. All welds to conform to AWS standards
  5. The dimensions in the charts on sheets 3-7 are calculated using the requirements specified in IBC 2012, and the Manual of Steel Construction (13th Edition). Soil lateral bearing pressure is considered to be 150 psf/f.
  6. Check with the local building authority to determine the installation sites wind zone and risk category as specified in IBC 2012 and ASCE 7-10. For the purposes of these installation prints, Risk Category I shall apply to an installation where the scoreboard is more than 1.5 x the overall height away from the nearest spectator section. Risk Category II shall apply to all other installations.
  7. The weights of signs to be calculated using 2.2 lb/sq. ft of sign area.
  8. The weights of Nevco message centers to be calculated using 8.5 lb/sq ft.
  9. The weights of Nevco video displays to be calculated using 9.5 lbs/sq. ft.
  10. The weights of Nevco arches to be calculated using 2.3 lbs/sq. ft.

**Important. Read before installation.**  
 This is not an engineered drawing. It is intended for representational purposes only. The dimensions called out on this drawing are intended to be used as a guide only, and are not intended to be suitable for all conditions. Adding signs or other components around the scoreboard beyond the scope of this drawing or increasing the display height from the ground will affect the installation requirements. Nevco recommends that you consult a professional engineer or architect familiar with the area before attempting installation. They can verify that the selected mounting beams or posts along with the brackets, screws, and other hardware items provided by others or Nevco are adequate for your local soil conditions, wind loads and other local codes. If procedures are used that are not covered in this drawing, careful analysis of the installation is urged.

Outdoor Scoreboard Footing Installation 2 Column		 <b>NEVCO</b> Nevco, Inc. Greenville, Illinois 62246	
Drawn CJS	Date 1/11/2017	Sheet 1 of 7	

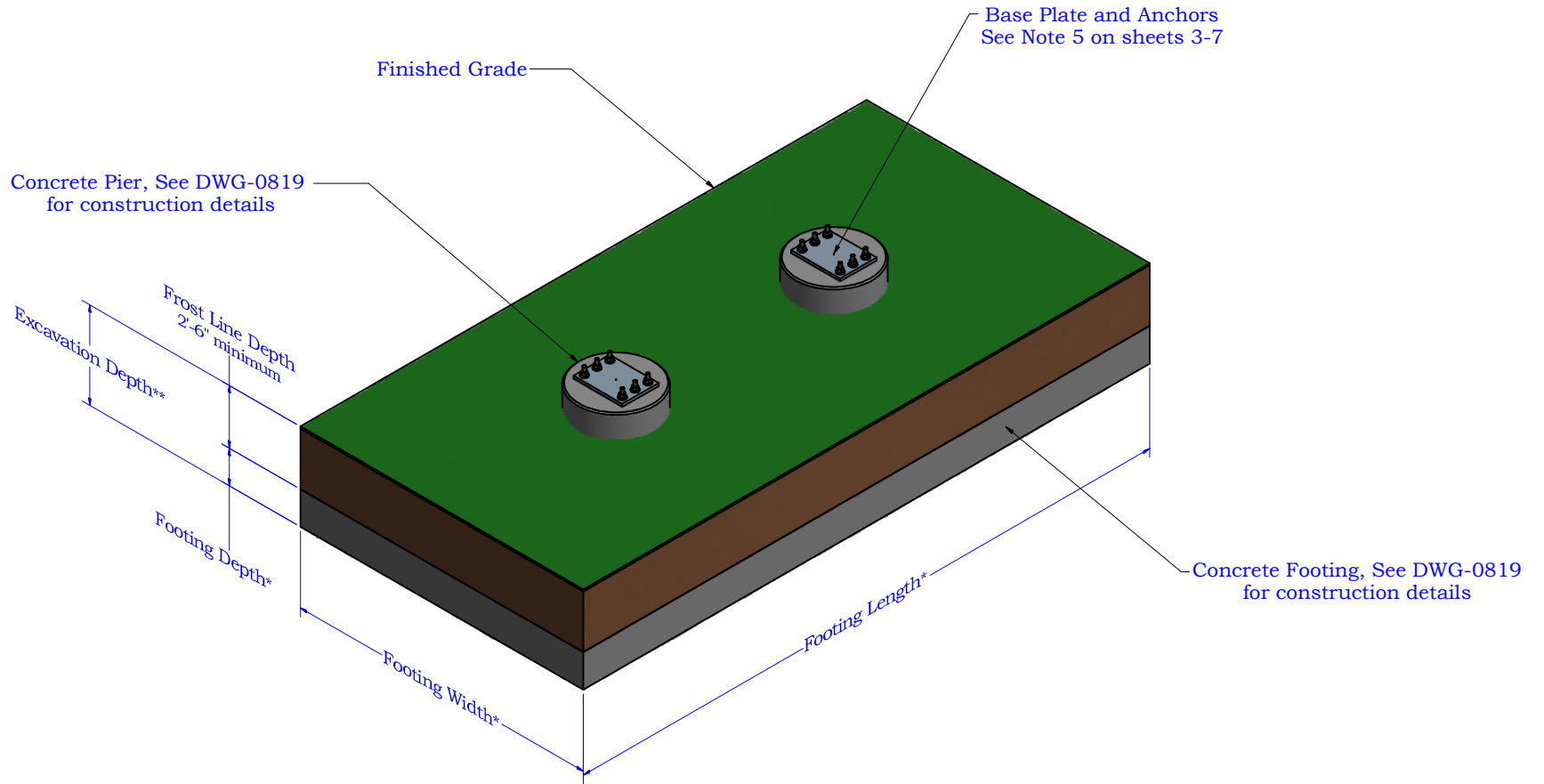
# Excavation Details

Rev

Note:

\*See sheets 3-7 for footing dimensions

\*\*Excavation Depth = Footing Depth + Frost Line Depth



Outdoor Scoreboard  
Footing Installation  
2 Column



Nevo, Inc.  
Greenville, Illinois 62246

Drawing No. 241-0409

Drawn CJS

Date 1/11/2017

Sheet of 2 7

105 MPH WIND ZONES

Rev --

EXPOSURE C (See Note 3)

Column and Foundation Requirements (Based on ASCE 7-10)											
Display Height	Braced Column	Spread Footing			Pier and Pier Reinforcement				Anchors and Base Plates**	Column Length	
		Footing Length	Footing Width	Footing Depth	Steel Reinforcement	Pier Diameter	Quantity	Size			Hook Length
6'	W 10x17	20'	6'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 3	15'	
8'	W 8x21	20'	8'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 1	17'	
9'	W 8x21	20'	8'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 1	18'	
10'	W 10x22	20'	9'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 3	19'	
10'6"	W 10x22	20'	9'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 3	19'6"	
12'	W 10x26	20'	10'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 3	21'	
14'	W 12x26	20'	11'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 5	23'	
16'	W 12x30	20'	12'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 5	25'	
18'	W 14x30	20'	13'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 8	27'	
20'	W 18x35	20'	14'	1'6"	#5s @12in O.C. T&B	4'	24	#6 9"	Option 11	29'	
22'	W 16x40	20'	15'	1'6"	#5s @12in O.C. T&B	4'	24	#6 9"	Option 10	31'	
25'	W 21x44	20'	17'	1'6"	#6s @12in O.C. T&B	5'	30	#7 11"	Option 14	34'	
30'	W 18x55	20'	19'	1'6"	#6s @12in O.C. T&B	4'	24	#6 9"	Option 11	39'	
35'	W 21x62	20'	21'	1'6"	#7s @12in O.C. T&B	5'	30	#7 11"	Option 14	44'	
40'	W 21x68	20'	21'	2'	#8s @12in O.C. T&B	5'	30	#7 11"	Option 14	49'	

18 FEET LONG INSTALLATIONS

EXPOSURE B (See Note 4)

Column and Foundation Requirements (Based on ASCE 7-10)											
Display Height	Braced Column	Spread Footing			Pier and Pier Reinforcement				Anchors and Base Plates**	Column Length	
		Footing Length	Footing Width	Footing Depth	Steel Reinforcement	Pier Diameter	Quantity	Size			Hook length
6'	W 12x14	20'	5'6"	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 3	15'	
8'	W 10x17	20'	6'6"	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 3	17'	
9'	W 8x18	20'	7'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 1	18'	
10'	W 8x18	20'	7'6"	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 1	19'	
10'6"	W 8x18	20'	7'6"	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 1	19'6"	
12'	W 8x21	20'	8'6"	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 1	21'	
14'	W 10x22	20'	9'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 3	23'	
16'	W 10x26	20'	10'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 3	25'	
18'	W 12x26	20'	11'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 5	27'	
20'	W 12x30	20'	12'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 5	29'	
22'	W 14x30	20'	13'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 8	31'	
25'	W 18x35	20'	14'	1'6"	#5s @12in O.C. T&B	4'	24	#6 9"	Option 11	34'	
30'	W 14x43	20'	16'	1'6"	#6s @12in O.C. T&B	4'	24	#6 9"	Option 9	39'	
35'	W 18x50	20'	18'	1'6"	#6s @12in O.C. T&B	4'	24	#6 9"	Option 11	44'	
40'	W 21x55	20'	21'	1'6"	#7s @12in O.C. T&B	5'	30	#7 11"	Option 14	49'	

16 FEET LONG INSTALLATIONS

EXPOSURE C (See Note 3)

Column and Foundation Requirements (Based on ASCE 7-10)											
Display Height	Braced Column	Spread Footing			Pier and Pier Reinforcement				Anchors and Base Plates**	Column Length	
		Footing Length	Footing Width	Footing Depth	Steel Reinforcement	Pier Diameter	Quantity	Size			Hook Length
5'	W 10x15	18'	6'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 3	14'	
6'	W 10x17	18'	6'6"	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 3	15'	
7'	W 8x18	18'	7'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 1	16'	
8'	W 8x18	18'	8'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 1	17'	
10'	W 8x21	18'	9'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 1	19'	
12'	W 10x22	18'	10'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 3	21'	
14'	W 10x26	18'	11'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 3	23'	
16'	W 12x26	18'	12'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 5	25'	

12 FEET LONG INSTALLATIONS

EXPOSURE B (See Note 4)

Column and Foundation Requirements (Based on ASCE 7-10)											
Display Height	Braced Column	Spread Footing			Pier and Pier Reinforcement				Anchors and Base Plates**	Column Length	
		Footing Length	Footing Width	Footing Depth	Steel Reinforcement	Pier Diameter	Quantity	Size			Hook length
5'	W 8x13	14'	5'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 1	14'	
8'	W 10x17	14'	6'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 3	17'	
10'	W 8x18	14'	7'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 1	19'	
12'	W 8x21	14'	8'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 1	21'	
15'	W 8x21	14'	10'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 1	24'	

EXPOSURE C (See Note 3)

Column and Foundation Requirements (Based on ASCE 7-10)											
Display Height	Braced Column	Spread Footing			Pier and Pier Reinforcement				Anchors and Base Plates**	Column Length	
		Footing Length	Footing Width	Footing Depth	Steel Reinforcement	Pier Diameter	Quantity	Size			Hook Length
4'	W 8x13	12'	5'6"	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 1	13'	
5'	W 8x13	12'	6'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 1	14'	
6'	W 8x13	12'	6'6"	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 1	15'	
8'	W 8x15	12'	8'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 1	17'	
10'	W 8x18	12'	9'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 1	19'	
12'	W 8x18	12'	10'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 1	21'	
15'	W 10x22	12'	11'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 3	24'	

10 FEET LONG INSTALLATIONS

EXPOSURE B (See Note 4)

Column and Foundation Requirements (Based on ASCE 7-10)											
Display Height	Braced Column	Spread Footing			Pier and Pier Reinforcement				Anchors and Base Plates**	Column Length	
		Footing Length	Footing Width	Footing Depth	Steel Reinforcement	Pier Diameter	Quantity	Size			Hook length
4'	W 8x13	11'	5'6"	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 1	13'	

9 FEET LONG INSTALLATIONS

EXPOSURE C (See Note 3)

Column and Foundation Requirements (Based on ASCE 7-10)											
Display Height	Braced Column	Spread Footing			Pier and Pier Reinforcement				Anchors and Base Plates**	Column Length	
		Footing Length	Footing Width	Footing Depth	Steel Reinforcement	Pier Diameter	Quantity	Size			Hook Length
3'	W 8x13	10'	5'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 1	12'	
6'	W 8x13	10'	6'6"	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 1	15'	
8'	W 12x14	10'	8'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 5	17'	
10'	W 10x17	10'	9'	1'6"	#4s @12in O.C. T&B	3'	18	#5 8"	Option 3	19'	

8 FEET LONG INSTALLATIONS

Chart Notes:

1. If the display height is between chart values shown above, use the next highest value.
2. All installations will be braced with laterals placed at 10' increments on front and back of the column starting at 10' above grade. See 241-0413 for lateral sizes.
3. Wind loading figured at **Exposure "C" - Open terrain** with scattered obstructions having heights generally less than 30 feet. This category includes flat open country, grasslands, and all water surfaces in hurricane prone areas.
4. Wind loading figured at **Exposure "B" - Urban and suburban areas**, wooded areas, or other terrain with numerous closely spaced obstructions having the size of single-family dwellings or larger. These areas prevail in the upwind direction for a distance of 2600 feet or 20 times the structure height, whichever is greater.
5. \*\*Please see DWG-0818 to determine base plate and anchor sizes from the option listed above.
6. Quantity of Pier reinforcements listed is **PER PIER**.

Outdoor Scoreboard  
Footing Installation  
2 Column



Neveco, Inc.  
Greenville, Illinois 62246

Drawing No. 241-0409

Drawn CJS Date 1/11/2017

Sheet 3 of 7

120 MPH WIND ZONES

Rev --

EXPOSURE C (See Note 3)

Column and Foundation Requirements (Based on ASCE 7-10)											
Display Height	Braced Column	Spread Footing			Pier and Pier Reinforcement				Anchors and Base Plates**	Column Length	
		Footing Length	Footing Width	Footing Depth	Steel Reinforcement	Pier Diameter	Quantity	Size			Hook Length
6'	W8x18	20'	7'6"	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 1	15'
8'	W10x22	20'	9'	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 3	17'
9'	W10x22	20'	10'	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 3	18'
10'	W10x26	20'	10'	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 3	19'
10'6"	W10x26	20'	11'	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 3	19'6"
12'	W12x26	20'	12'	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 5	21'
14'	W12x30	20'	13'	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 5	23'
16'	W14x34	20'	14'	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 8	25'
18'	W16x36	20'	15'	1'6"	#5's @ 12in O.C. T&B	4'	24	#6	9"	Option 10	27'
20'	W16x40	20'	16'	1'6"	#5's @ 12in O.C. T&B	4'	24	#6	9"	Option 10	29'
22'	W21x44	20'	17'	1'6"	#6's @ 12in O.C. T&B	5'	30	#7	11"	Option 14	31'
25'	W18x50	20'	19'	1'6"	#6's @ 12in O.C. T&B	4'	24	#6	9"	Option 11	34'
30'	W21x62	20'	22'	1'6"	#7's @ 12in O.C. T&B	5'	30	#7	11"	Option 14	39'
35'	W24x68	20'	21'	2'	#8's @ 12in O.C. T&B	5'	30	#7	11"	Option 16	44'
40'	W24x84	20'	22'	2'3"	#9's @ 12in O.C. T&B	5'	30	#7	11"	Option 16	49'

18 FEET LONG INSTALLATIONS

EXPOSURE B (See Note 4)

Column and Foundation Requirements (Based on ASCE 7-10)											
Display Height	Braced Column	Spread Footing			Pier and Pier Reinforcement				Anchors and Base Plates**	Column Length	
		Footing Length	Footing Width	Footing Depth	Steel Reinforcement	Pier Diameter	Quantity	Size			Hook Length
6'	W10x17	20'	6'	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 3	15'
8'	W8x18	20'	7'6"	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 1	17'
9'	W8x21	20'	8'	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 1	18'
10'	W8x21	20'	8'6"	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 1	19'
10'6"	W10x22	20'	8'6"	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 3	19'6"
12'	W10x22	20'	10'	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 3	21'
14'	W10x26	20'	11'	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 3	23'
16'	W12x26	20'	12'	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 5	25'
18'	W12x30	20'	13'	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 5	27'
20'	W14x34	20'	14'	1'6"	#5's @ 12in O.C. T&B	3'	18	#5	8"	Option 8	29'
22'	W16x36	20'	15'	1'6"	#5's @ 12in O.C. T&B	4'	24	#6	9"	Option 10	31'
25'	W16x40	20'	16'	1'6"	#5's @ 12in O.C. T&B	4'	24	#6	9"	Option 10	34'
30'	W18x50	20'	19'	1'6"	#6's @ 12in O.C. T&B	4'	24	#6	9"	Option 11	39'
35'	W21x55	20'	21'	1'6"	#7's @ 12in O.C. T&B	5'	30	#7	11"	Option 14	44'
40'	W21x68	20'	21'	2'	#8's @ 12in O.C. T&B	5'	30	#7	11"	Option 14	49'

16 FEET LONG INSTALLATIONS

EXPOSURE C (See Note 3)

Column and Foundation Requirements (Based on ASCE 7-10)											
Display Height	Braced Column	Spread Footing			Pier and Pier Reinforcement				Anchors and Base Plates**	Column Length	
		Footing Length	Footing Width	Footing Depth	Steel Reinforcement	Pier Diameter	Quantity	Size			Hook Length
5'	W10x17	18'	7'	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 3	14'
6'	W8x18	18'	7'6"	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 1	15'
7'	W8x21	18'	8'	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 1	16'
8'	W8x21	18'	9'	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 1	17'
10'	W14x22	18'	10'	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 8	19'
12'	W12x26	18'	12'	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 5	21'
14'	W12x30	18'	13'	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 5	23'
16'	W14x30	18'	14'	1'6"	#5's @ 12in O.C. T&B	3'	18	#5	8"	Option 8	25'

12 FEET LONG INSTALLATIONS

EXPOSURE B (See Note 4)

Column and Foundation Requirements (Based on ASCE 7-10)											
Display Height	Braced Column	Spread Footing			Pier and Pier Reinforcement				Anchors and Base Plates**	Column Length	
		Footing Length	Footing Width	Footing Depth	Steel Reinforcement	Pier Diameter	Quantity	Size			Hook Length
4'	W8x13	14'	5'6"	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 3	14'
5'	W8x15	14'	7'	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 1	17'
6'	W8x18	14'	9'	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 1	19'
8'	W8x18	14'	10'	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 1	21'
10'	W10x22	14'	11'	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 5	24'

10 FEET LONG INSTALLATIONS

EXPOSURE B (See Note 4)

Column and Foundation Requirements (Based on ASCE 7-10)											
Display Height	Braced Column	Spread Footing			Pier and Pier Reinforcement				Anchors and Base Plates**	Column Length	
		Footing Length	Footing Width	Footing Depth	Steel Reinforcement	Pier Diameter	Quantity	Size			Hook Length
4'	W8x13	11'	6'6"	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 1	13'

9 FEET LONG INSTALLATIONS

EXPOSURE C (See Note 3)

Column and Foundation Requirements (Based on ASCE 7-10)											
Display Height	Braced Column	Spread Footing			Pier and Pier Reinforcement				Anchors and Base Plates**	Column Length	
		Footing Length	Footing Width	Footing Depth	Steel Reinforcement	Pier Diameter	Quantity	Size			Hook Length
3'	W8x13	10'	5'6"	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 1	12'
6'	W12x14	10'	7'6"	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 5	15'
8'	W10x17	10'	9'	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 3	17'
10'	W8x18	10'	10'	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 1	19'
12'	W8x21	10'	11'	1'6"	#4's @ 12in O.C. T&B	3'	18	#5	8"	Option 1	21'

8 FEET LONG INSTALLATIONS

Chart Notes:

- If the display height is between chart values shown above, use the next highest value.
- All installations will be braced with laterals placed at 10' increments on front and back of the column starting at 10' above grade. See 241-0413 for lateral sizes.
- Wind loading figured at **Exposure "C"** - Open terrain with scattered obstructions having heights generally less than 30 feet. This category includes flat open country, grasslands, and all water surfaces in hurricane prone areas.
- Wind loading figured at **Exposure "B"** - Urban and suburban areas, wooded areas, or other terrain with numerous closely spaced obstructions having the size of single-family dwellings or larger. These areas prevail in the upwind direction for a distance of 2600 feet or 20 times the structure height, whichever is greater.
- \*\*Please see DWG-0818 to determine base plate and anchor sizes from the option listed above.
- Quantity of Pier reinforcements listed is **PER PIER**.

Outdoor Scoreboard Footing Installation 2 Column



Neveco, Inc. Greenville, Illinois 62246

Drawing No. 241-0409

Drawn CJS

Date 1/11/2017

Sheet 4 of 7

130 MPH WIND ZONES

Rev --

EXPOSURE C (See Note 3)

Column and Foundation Requirements (Based on ASCE 7-10)											
Display Height	Braced Column	Spread Footing			Pier and Pier Reinforcement				Anchors and Base Plates**	Column Length	
		Footing Length	Footing Width	Footing Width	Steel Reinforcement	Pier Diameter	Quantity	Size			Hook Length
6'	W8x21	20'	8'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 1	15'
8'	W10x22	20'	10'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 3	17'
9'	W10x26	20'	10'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 3	18'
10'	W12x26	20'	11'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 5	19'
10'6"	W12x26	20'	11'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 5	19'6"
12'	W12x30	20'	12'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 5	21'
14'	W14x34	20'	14'	1' 6"	#5's @ 12in O.C. T & B	3'	18	#5	8"	Option 8	23'
16'	W16x36	20'	15'	1' 6"	#5's @ 12in O.C. T & B	4'	24	#6	9"	Option 10	25'
18'	W16x40	20'	16'	1' 6"	#5's @ 12in O.C. T & B	4'	24	#6	9"	Option 10	27'
20'	W21x44	20'	17'	1' 6"	#6's @ 12in O.C. T & B	5'	30	#7	11"	Option 14	29'
22'	W18x50	20'	19'	1' 6"	#6's @ 12in O.C. T & B	4'	24	#6	9"	Option 11	31'
25'	W21x55	20'	20'	1' 6"	#7's @ 12in O.C. T & B	5'	30	#7	11"	Option 14	34'
30'	W21x68	20'	21'	2'	#8's @ 12in O.C. T & B	5'	30	#7	11"	Option 14	39'
35'	W24x76	20'	22'	2' 3"	#9's @ 12in O.C. T & B	5'	30	#7	11"	Option 16	44'
40'	W24x94	20'	22'	2' 9"	#10's @ 12in O.C. T & B	5'	30	#7	11"	Option 16	49'

18 FEET LONG INSTALLATIONS

EXPOSURE B (See Note 4)

Column and Foundation Requirements (Based on ASCE 7-10)											
Display Height	Braced Column	Spread Footing			Pier and Pier Reinforcement				Anchors and Base Plates**	Column Length	
		Footing Length	Footing Width	Footing Width	Steel Reinforcement	Pier Diameter	Quantity	Size			Hook length
6'	W8x18	20'	6'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 1	15'
8'	W8x21	20'	8'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 1	17'
9'	W8x21	20'	9'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 1	18'
10'	W10x22	20'	9'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 3	19'
10'6"	W10x22	20'	9'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 3	19'6"
12'	W10x26	20'	10'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 3	21'
14'	W12x26	20'	11'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 5	23'
16'	W12x30	20'	13'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 5	25'
18'	W14x34	20'	14'	1' 6"	#5's @ 12in O.C. T & B	3'	18	#5	8"	Option 8	27'
20'	W16x36	20'	15'	1' 6"	#5's @ 12in O.C. T & B	4'	24	#6	9"	Option 10	29'
22'	W16x40	20'	16'	1' 6"	#5's @ 12in O.C. T & B	4'	24	#6	9"	Option 10	31'
25'	W21x44	20'	17'	1' 6"	#6's @ 12in O.C. T & B	5'	30	#7	11"	Option 14	34'
30'	W18x55	20'	20'	1' 6"	#7's @ 12in O.C. T & B	4'	24	#6	9"	Option 11	39'
35'	W21x62	20'	20'	2'	#8's @ 12in O.C. T & B	5'	30	#7	11"	Option 14	44'
40'	W24x68	20'	22'	2'	#9's @ 12in O.C. T & B	5'	30	#7	11"	Option 16	49'

16 FEET LONG INSTALLATIONS

EXPOSURE C (See Note 3)

Column and Foundation Requirements (Based on ASCE 7-10)											
Display Height	Braced Column	Spread Footing			Pier and Pier Reinforcement				Anchors and Base Plates**	Column Length	
		Footing Length	Footing Width	Footing Width	Steel Reinforcement	Pier Diameter	Quantity	Size			Hook Length
5'	W8x18	18'	7'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 1	14'
6'	W8x21	18'	8'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 1	15'
7'	W8x21	18'	9'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 1	16'
8'	W10x22	18'	10'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 3	17'
10'	W10x26	18'	11'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 3	19'
12'	W12x26	18'	12'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 5	21'
14'	W14x30	18'	14'	1' 6"	#5's @ 12in O.C. T & B	3'	18	#5	8"	Option 8	23'
16'	W14x34	18'	15'	1' 6"	#5's @ 12in O.C. T & B	3'	18	#5	8"	Option 8	25'

12 FEET LONG INSTALLATIONS

EXPOSURE B (See Note 4)

Column and Foundation Requirements (Based on ASCE 7-10)											
Display Height	Braced Column	Spread Footing			Pier and Pier Reinforcement				Anchors and Base Plates**	Column Length	
		Footing Length	Footing Width	Footing Width	Steel Reinforcement	Pier Diameter	Quantity	Size			Hook Length
5'	W10x17	14'	7'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 3	14'
8'	W8x21	14'	10'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 1	17'
10'	W10x22	14'	11'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 3	19'
12'	W10x26	14'	12'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 3	21'
15'	W12x30	14'	14'	1' 6"	#5's @ 12in O.C. T & B	3'	18	#5	8"	Option 5	24'

10 FEET LONG INSTALLATIONS

EXPOSURE C (See Note 3)

Column and Foundation Requirements (Based on ASCE 7-10)											
Display Height	Braced Column	Spread Footing			Pier and Pier Reinforcement				Anchors and Base Plates**	Column Length	
		Footing Length	Footing Width	Footing Width	Steel Reinforcement	Pier Diameter	Quantity	Size			Hook length
4'	W8x13	12'	7'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 1	13'
5'	W10x15	12'	7'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 3	14'
6'	W10x17	12'	8'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 3	15'
8'	W8x18	12'	9'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 1	17'
10'	W8x21	12'	11'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 1	19'
12'	W10x22	12'	12'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 3	21'
15'	W12x26	12'	14'	1' 6"	#5's @ 12in O.C. T & B	3'	18	#5	8"	Option 5	24'

9 FEET LONG INSTALLATIONS

EXPOSURE B (See Note 4)

Column and Foundation Requirements (Based on ASCE 7-10)											
Display Height	Braced Column	Spread Footing			Pier and Pier Reinforcement				Anchors and Base Plates**	Column Length	
		Footing Length	Footing Width	Footing Width	Steel Reinforcement	Pier Diameter	Quantity	Size			Hook Length
3'	W8x13	10'	6'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 1	12'
6'	W10x15	10'	8'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 3	15'
8'	W8x18	10'	9'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 1	17'
10'	W8x18	10'	11'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 1	19'
12'	W10x22	10'	12'	1' 6"	#4's @ 12in O.C. T & B	3'	18	#5	8"	Option 3	21'

8 FEET LONG INSTALLATIONS

Chart Notes:

- If the display height is between chart values shown above, use the next highest value.
- All installations will be braced with laterals placed at 10' increments on front and back of the column starting at 10' above grade. See 241-0413 for lateral sizes.
- Wind loading figured at **Exposure "C" - Open terrain** with scattered obstructions having heights generally less than 30 feet. This category includes flat open country, grasslands, and all water surfaces in hurricane prone areas.
- Wind loading figured at **Exposure "B" - Urban and suburban areas**, wooded areas, or other terrain with numerous closely spaced obstructions having the size of single-family dwellings or larger. These areas prevail in the upwind direction for a distance of 2600 feet or 20 times the structure height, whichever is greater.
- \*\*Please see DWG-0818 to determine base plate and anchor sizes from the option listed above.
- Quantity of Pier reinforcements listed is **PER PIER**.

Outdoor Scoreboard  
Footing Installation  
2 Column



Neveco, Inc.  
Greenville, Illinois 62246

Drawing No. 241-0409

Drawn CJS Date 1/11/2017

Sheet 5 of 7

150 MPH WIND ZONES

EXPOSURE B (See Note 4)

EXPOSURE C (See Note 3)

Table with columns: Display Height, Braced Column, Spread Footing (Footing Length, Footing Width, Steel Reinforcement), Pier and Pier Reinforcement (Pier Diameter, Quantity, Size, Hook Length), Anchors and Base Plates, Column Length.

18 FEET LONG INSTALLATIONS

Table with columns: Display Height, Braced Column, Spread Footing (Footing Length, Footing Width, Steel Reinforcement), Pier and Pier Reinforcement (Pier Diameter, Quantity, Size, Hook Length), Anchors and Base Plates, Column Length.

16 FEET LONG INSTALLATIONS

Table with columns: Display Height, Braced Column, Spread Footing (Footing Length, Footing Width, Steel Reinforcement), Pier and Pier Reinforcement (Pier Diameter, Quantity, Size, Hook Length), Anchors and Base Plates, Column Length.

12 FEET LONG INSTALLATIONS

Table with columns: Display Height, Braced Column, Spread Footing (Footing Length, Footing Width, Steel Reinforcement), Pier and Pier Reinforcement (Pier Diameter, Quantity, Size, Hook Length), Anchors and Base Plates, Column Length.

10 FEET LONG INSTALLATIONS

Table with columns: Display Height, Braced Column, Spread Footing (Footing Length, Footing Width, Steel Reinforcement), Pier and Pier Reinforcement (Pier Diameter, Quantity, Size, Hook Length), Anchors and Base Plates, Column Length.

9 FEET LONG INSTALLATIONS

Table with columns: Display Height, Braced Column, Spread Footing (Footing Length, Footing Width, Steel Reinforcement), Pier and Pier Reinforcement (Pier Diameter, Quantity, Size, Hook Length), Anchors and Base Plates, Column Length.

8 FEET LONG INSTALLATIONS

Table with columns: Display Height, Braced Column, Spread Footing (Footing Length, Footing Width, Steel Reinforcement), Pier and Pier Reinforcement (Pier Diameter, Quantity, Size, Hook Length), Anchors and Base Plates, Column Length.

Table with columns: Display Height, Braced Column, Spread Footing (Footing Length, Footing Width, Steel Reinforcement), Pier and Pier Reinforcement (Pier Diameter, Quantity, Size, Hook Length), Anchors and Base Plates, Column Length.

Table with columns: Display Height, Braced Column, Spread Footing (Footing Length, Footing Width, Steel Reinforcement), Pier and Pier Reinforcement (Pier Diameter, Quantity, Size, Hook Length), Anchors and Base Plates, Column Length.

Table with columns: Display Height, Braced Column, Spread Footing (Footing Length, Footing Width, Steel Reinforcement), Pier and Pier Reinforcement (Pier Diameter, Quantity, Size, Hook Length), Anchors and Base Plates, Column Length.

Table with columns: Display Height, Braced Column, Spread Footing (Footing Length, Footing Width, Steel Reinforcement), Pier and Pier Reinforcement (Pier Diameter, Quantity, Size, Hook Length), Anchors and Base Plates, Column Length.

Table with columns: Display Height, Braced Column, Spread Footing (Footing Length, Footing Width, Steel Reinforcement), Pier and Pier Reinforcement (Pier Diameter, Quantity, Size, Hook Length), Anchors and Base Plates, Column Length.

- Chart Notes: 1. If the display height is between chart values shown above, use the next highest value. 2. All installations will be braced with laterals placed at 10' increments on front and back of the column starting at 10' above grade. See 241-0413 for lateral sizes. 3. Wind loading figured at Exposure "C" - Open terrain with scattered obstructions having heights generally less than 30 feet. This category includes flat open country, grasslands, and all water surfaces in hurricane prone areas. 4. Wind loading figured at Exposure "B" - Urban and suburban areas, wooded areas, or other terrain with numerous closely spaced obstructions having the size of single-family dwellings or larger. These areas prevail in the upwind direction for a distance of 2600 feet or 20 times the structure height, whichever is greater. 5. \*\*Please see DWG-0818 to determine base plate and anchor sizes from the option listed above. 6. Quantity of Pier reinforcements listed is PER PIER.

Outdoor Scoreboard Footing Installation 2 Column



Neveco, Inc. Greenville, Illinois 62246

Drawing No. 241-0409

Drawn CJS Date 1/11/2017

Sheet of 6 7

180 MPH WIND ZONES

Rev --

EXPOSURE C (See Note 3)

EXPOSURE B (See Note 4)

Table with 13 columns: Display Height, Braced Column, Footing Length, Footing Width, Footing Depth, Steel Reinforcement, Pier Diameter, Quantity, Size, Hook Length, Anchors and Base Plates, Column Length. Rows 6-40.

18 FEET LONG INSTALLATIONS

Table with 13 columns: Display Height, Braced Column, Footing Length, Footing Width, Footing Depth, Steel Reinforcement, Pier Diameter, Quantity, Size, Hook Length, Anchors and Base Plates, Column Length. Rows 5-16.

16 FEET LONG INSTALLATIONS

Table with 13 columns: Display Height, Braced Column, Footing Length, Footing Width, Footing Depth, Steel Reinforcement, Pier Diameter, Quantity, Size, Hook Length, Anchors and Base Plates, Column Length. Rows 5-15.

12 FEET LONG INSTALLATIONS

Table with 13 columns: Display Height, Braced Column, Footing Length, Footing Width, Footing Depth, Steel Reinforcement, Pier Diameter, Quantity, Size, Hook Length, Anchors and Base Plates, Column Length. Rows 4-15.

10 FEET LONG INSTALLATIONS

Table with 13 columns: Display Height, Braced Column, Footing Length, Footing Width, Footing Depth, Steel Reinforcement, Pier Diameter, Quantity, Size, Hook Length, Anchors and Base Plates, Column Length. Rows 4.

9 FEET LONG INSTALLATIONS

Table with 13 columns: Display Height, Braced Column, Footing Length, Footing Width, Footing Depth, Steel Reinforcement, Pier Diameter, Quantity, Size, Hook Length, Anchors and Base Plates, Column Length. Rows 3-12.

8 FEET LONG INSTALLATIONS

Chart Notes:

- 1. If the display height is between chart values shown above, use the next highest value.
2. All installations will be braced with laterals placed at 10' increments on front and back of the column starting at 10' above grade.
3. Wind loading figured at Exposure C - Open terrain with scattered obstructions having heights generally less than 30 feet.
4. Wind loading figured at Exposure B - Urban and suburban areas, wooded areas, or other terrain with numerous closely spaced obstructions having the size of single-family dwellings or larger.
5. \*\*Please see DWG-0818 to determine base plate and anchor sizes from the option listed above.
6. Quantity of Pier reinforcements listed is PER PIER.

Table with 13 columns: Display Height, Braced Column, Footing Length, Footing Width, Footing Depth, Steel Reinforcement, Pier Diameter, Quantity, Size, Hook Length, Anchors and Base Plates, Column Length. Rows 6-40.

Table with 13 columns: Display Height, Braced Column, Footing Length, Footing Width, Footing Depth, Steel Reinforcement, Pier Diameter, Quantity, Size, Hook Length, Anchors and Base Plates, Column Length. Rows 5-16.

Table with 13 columns: Display Height, Braced Column, Footing Length, Footing Width, Footing Depth, Steel Reinforcement, Pier Diameter, Quantity, Size, Hook Length, Anchors and Base Plates, Column Length. Rows 5-15.

Table with 13 columns: Display Height, Braced Column, Footing Length, Footing Width, Footing Depth, Steel Reinforcement, Pier Diameter, Quantity, Size, Hook Length, Anchors and Base Plates, Column Length. Rows 4-15.

Table with 13 columns: Display Height, Braced Column, Footing Length, Footing Width, Footing Depth, Steel Reinforcement, Pier Diameter, Quantity, Size, Hook Length, Anchors and Base Plates, Column Length. Rows 4.

Table with 13 columns: Display Height, Braced Column, Footing Length, Footing Width, Footing Depth, Steel Reinforcement, Pier Diameter, Quantity, Size, Hook Length, Anchors and Base Plates, Column Length. Rows 3-12.

Outdoor Scoreboard Footing Installation 2 Column



Neveco, Inc. Greenville, Illinois 62246

Drawing No. 241-0409

Drawn CJS Date 1/11/2017 Sheet 7 of 7