



AN Wireless Towers

AN Wireless Tower Assembly Instructions

READ THOROUGHLY BEFORE ASSEMBLY AND ERECTION

Thank you for your purchase of an AN Wireless Self Supporting Tower. AN Wireless Towers are designed and fabricated to be high-strength, high-quality and well designed pieces of infrastructure equipment, intended to offer many decades of service life.

AN Wireless Towers are designed and produced in accordance with National Standard ANSI/TIA-222-G. Handling, rigging and erecting towers of this type must be assigned to qualified and experienced personnel. It is the full responsibility of the customer / erector to properly assemble and erect AN Wireless Towers.

All models of AN Wireless Towers utilize a different stacking configuration with the twelve (12) available tapered sections to achieve the required height (120 ft. maximum). Tower sections are numbered from 1 thru 12, with section 1 being the widest section available, and section 12 being the narrowest section available.

Allowable Design Loading & Foundation Plans

Refer to our website to download the Allowable Design Loading and required Foundation Drawings for a specific tower at the following URL: www.anwireless.com/tower.html

If you are unsure how to interpret these tables, drawings or information, or if you require further site-specific design data, contact us for assistance.

Fastener Torque

AISC does not provide torque specifications as a means to indicate bolt preload. The reason is because the relationship varies greatly depending on bolt length, thread roughness, bolt coating and lubricity.

The below estimated torque calculations are only offered as a guide. Due to many variables that affect the torque-tension relationship such as human error, surface texture and lubrication, the only way to determine the correct torque is through experimentation under actual joint and assembly conditions.

The recommended torque values are based on factory condition. AN Wireless Tower bolts are used in shear, so the concern is that the bolts to not loosen over time. A periodic inspection of all bolted connections is recommended.

Tightening torque – suggested starting values:

3/8" x 1 Brace Bolt, 16 TPI – 16 ft. lbs.

1/2" x 1-1/2" Leg Bolt, 13 TPI – 75-94 ft. lbs.

5' Concrete Base Section Assembly

- 1) Identify the Upper Braces (shortest length), Lower Braces (middle length) and Diagonal braces (longest length). Three (3) of each length are included, and all braces are 1/8" x 1-1/2" angle.
- 2) Locate the brace mounting holes as marked on the 5' long Concrete Base Section legs.
- 3) Bolt the Upper Braces (3) and Lower braces (3) in place with the supplied 1/2" fasteners. These (6) braces mount to the OUTSIDE of the 5' Base Section legs. Keep the fasteners loose for now.
- 4) Bolt the Diagonal Braces (3) in place with the supplied 1/2" fasteners. These (3) braces mount to the INSIDE of the 5' Concrete Base Section legs, and share the same 1/2" fasteners used for the Upper Braces and Lower Braces. Keep all fasteners loose for now.
- 5) Ensure the UPPER Concrete Base Section leg face width of each of the (3) 5' Concrete Base Section legs is within + or - 1/16" of the bottom face width of the tower section that will mount directly above the 5' Concrete Base Section. These measurements must be taken from the outside leg apex to outside leg apex on all (3) section faces on both adjoining sections. The LOWER Concrete Base Section leg face width is not critical.
- 6) Fully tighten all fasteners.
- 7) With the Concrete Base Section placed in the foundation hole, plumb each 5' Concrete Base Section leg for equal vertical straightness, taking into consideration the taper of the Concrete Base Section legs. Adjust as necessary. Provide temporary guying or support if necessary.
- 8) Pour concrete down through the middle of the Concrete Base Section to ensure minimal disturbance of the Concrete Base Section or rebar.
- 9) The final concrete level must be 9" from the top of each of the 5' Concrete Base Section legs. In other words, 9" of the Concrete Base Section legs must remain exposed above concrete.

IF LOCATION OF UNDERGROUND UTILITIES IS UNKNOWN, CALL BEFORE YOU DIG!

Section Assembly & Tower Erection

- 1) Locate all SECTION braces for each individual 10' section and group the braces by length. There are three (3) SECTION braces of equal length per section, and eighteen (18) total SECTION braces per section. SECTION braces are identifiable by a round hole on each end. SECTION braces are 1/8" x 1-1/2" angle.
- 2) Locate all INTERSECTIONAL braces for each individual 10' section and group the braces by length. There are three (3) INTERSECTIONAL braces of equal length per section. The INTERSECTIONAL braces cross between two sections to maintain continuity in the overall tower bracing. INTERSECTIONAL braces are identifiable by an elongated hole on each end. INTERSECTIONAL braces are 1/8" x 1-1/2" angle.
- 3) Locate all 10' section legs for each individual section and group these legs by the correct orientation (Top / Bottom). There will be three (3) by legs of equal size & hole pattern per section. The tower legs each have multiple bolt hole patterns consisting 5/8" holes for splice plate connections, 1/2" holes for braces and 5/8" holes for (optional) step bolts.
- 4) It is imperative that the installation of the SECTION braces and INTERSECTIONAL braces is done using the proper pattern (inside section / outside section) per the Assembly Drawings. The correct location for the INTERSECTIONAL braces on all available tower sections is:

5' Base – Section 1 Inside of Section

Section 1 – Section 2 Outside of Section

Section 2 – Section 3 Inside of Section

Section 3 – Section 4 Outside of Section

Section 4 – Section 5 Inside of Section

Section 5 – Section 6 Outside of Section

Section 6 – Section 7 Inside of Section

Section 7 – Section 8 Outside of Section

Section 8 – Section 9 Inside of Section

Section 9 – Section 10 Outside of Section

Section 10 – Section 11 Inside of Section

Section 11 – Section 12 Outside of Section

Note: All 'LD Series' towers substitute the next-lowest 10' section for the 5' Concrete Base Section.

- 5) Begin installing SECTION braces using the supplied 3/8" bolts, nuts and lock washers. Braces are installed with two braces sharing one bolt used in single-shear. A round file may be useful to clean out holes from excess zinc, though this is a rare occurrence. Keep all bolt heads on the outside of the section, and threads on the inside. Use the Assembly Drawings as a guide for correct SECTION brace location and inside / outside orientation. Sections, as well as the entire tower, must be assembled on a level surface to ensure proper section alignment, and to avoid building a bow or arch into the length of the tower. The flat, notched side of the SECTION braces must face up towards the top of the tower. Keep all connections finger-tight.
- 6) Once the SECTION braces have been installed on all (3) faces of the entire tower, begin installing the INTERSECTIONAL braces using the supplied 3/8" bolts, nuts and lock washers. A round file may be useful to clean out holes from excess zinc, though this is a rare occurrence. Keep all bolt heads on the outside of the section, and threads on the inside. Use the Assembly Drawings as a guide for correct INTERSECTIONAL brace location and inside / outside orientation. The INTERSECTIONAL braces share the same fasteners used for the SECTION braces. The flat, notched side of the INTERSECTIONAL braces must face up towards the top of the tower. Keep all connections finger-tight.
- 7) Use the Assembly Drawings as a guide to achieve the correct section face measurements for the top and bottom of each section. These measurements must be taken from the outside leg apex to outside leg apex on all (3) section faces on the top and bottom of all sections. After all SECTION and INTERSECTIONAL bracing has been installed and the top & bottom of each section is checked for the correct face width matching the Assembly Drawings, tighten only the 3/8" SECTION brace bolts, section by section, leaving the INTERSECTIONAL brace bolts finger-tight.
- 8) Join the 10' sections using the supplied hardware. Twelve (12) Splice Plates are used at each section joint (4 per leg), with twenty-four (24) 1/2" x 1-1/2" bolts, nuts and lock washers (8 per leg). Two different widths of Splice Plates are used in our complete 120 ft. tower design. Refer to the Assembly Drawings for correct Splice Plate width and location based on the tower sections used. The Splice Plates mount on both the inside and outside of each tower leg.

The 2" wide Splice Plates must be used between the following sections:

5' Base – Section 1

Section 1 (or 5' Base) – Section 2

Section 2 (or 5' Base) – Section 3

Section 3 (or 5' Base) – Section 4

The 1-3/4" wide Splice Plates must be used between the following sections:

Section 4 (or 5' Base) – Section 5

Section 5 (or 5' Base) – Section 6

Section 6 (or 5' Base) – Section 7

Section 7 (or 5' Base) – Section 8

Section 8 (or 5' Base) – Section 9

Section 9 (or 5' Base) – Section 10

Section 10 (or 5' Base) – Section 11

Section 11 (or 5' Base) – Section 12

- 9) Maintain consistent gap between each of the three (3) legs in each section joint. Shim sections as necessary.
- 10) After it has been determined the sections are all straight and the assembled tower is plumb, tighten all of the 3/8" INTERSECTIONAL fasteners and all of the 1/2" leg / Splice Plate fasteners.
- 11) When installing the tower with a crane, avoid using the very top of the tower as a lift point. Assuming an empty tower, generally a good lift point is 2/3 of the way up the tower.

Optional Tower Accessories

Step Bolts

This option includes 1/2" diameter stainless steel Step Bolts for the purpose of ascending and descending the tower more safely. The 1/2" Step Bolts are installed in the 5/8" holes provided in each tower leg (6 per leg) on alternating sides of the leg. Another Step Bolt is installed in one of the Splice Plate holes. Select the correct Splice Plate hole to continue the alternating left / right pattern of the Step Bolts. All Step Bolts use two (2) nuts and (2) lock washers.

Fixed-Mount Mast Plates / Rotator Plates / Thrust Bearing Plates

This option includes the selected triangular mounting plate with three (3) welded plate mounts. The (3) plate mounts are each bolted into the inside apex of the appropriate tower leg to provide a solid mount for the mounting plate. The mounting plate then bolts to the top of all (3) plate mounts using the supplied 1/2" bolts, nuts and lock washers. This plate mounting design offers a maximum open surface area available for use on the plate surface, while allowing the plate to easily enter the section from the outside. In the case of Rotator and Thrust Bearing plates, a small locating hole is provided in the center of each plate.

Anti-Climb Panels

This option includes three (3) sheets of pre-sheared expanded metal and three (3) expanded metal corner covers. The expanded sheet is sheared to match the taper of the bottom tower section and cover it on all sides to restrict climbing. Once the three (3) expanded panels are placed against the tower section, the three (3) corner covers may then be installed on the outside at each corner and secured in place using the supplied 1/2" bolts, nuts and lockwashers. Eight (8) fasteners per corner are used to secure the assembly. Wear gloves to protect against sharp edges.

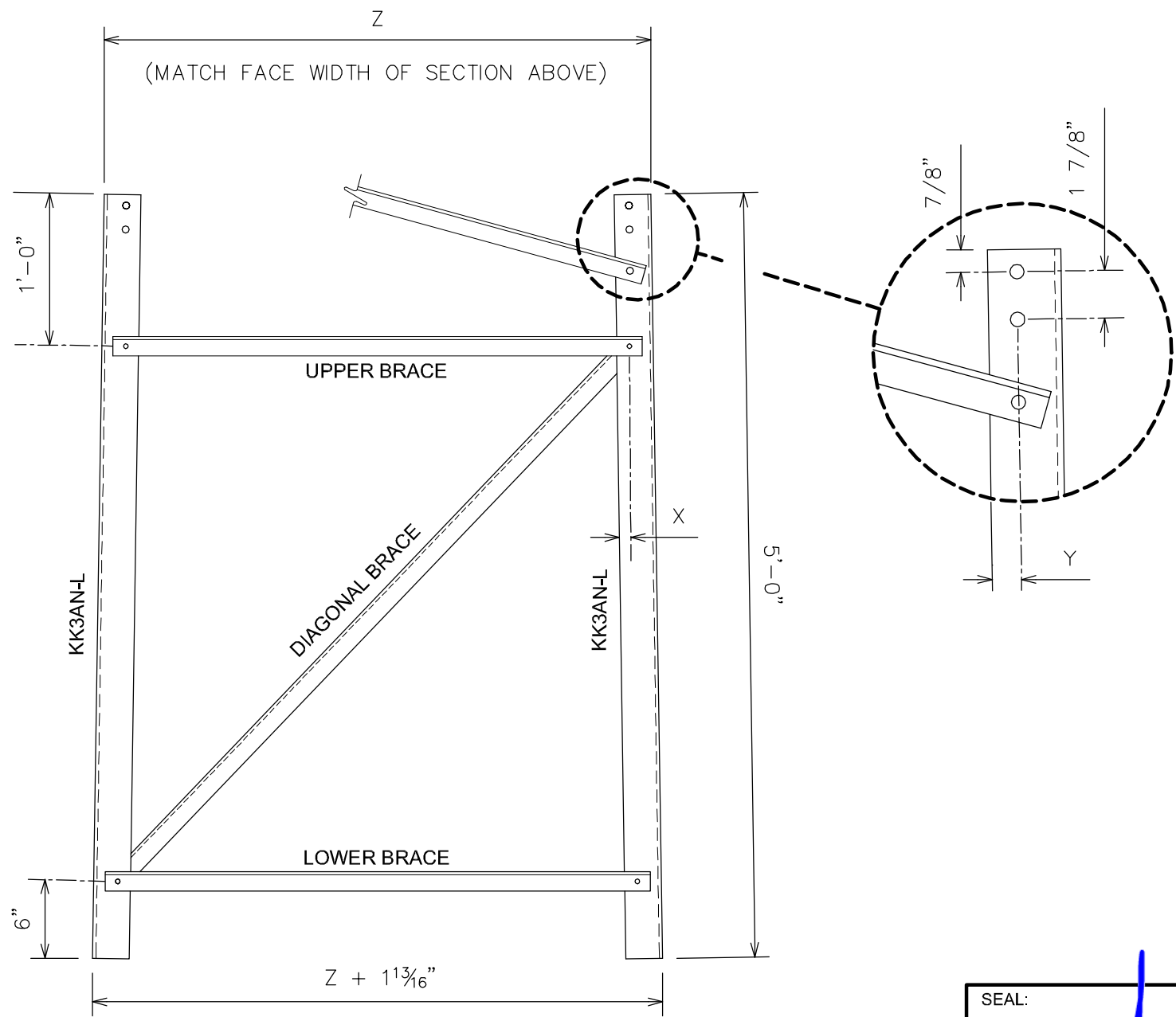
Rock / Rooftop Mounts

This option includes a set of three (3) mounts that replace our 5' Concrete Base Section. Because this is a very custom and site-specific option, no rock anchors or other base-mounting hardware is included as standard. Use the supplied 1/2" bolts, nuts, lock washers and splice plates to fasten the Rock / Rooftop Mounts to the tower legs.

Tower Grounding Kit

This option includes a set of three (3) 5/8" ground rods, solid copper wire, lugs, clamps and hardware for connection to each of the tower legs. Use the stainless steel hardware provided to attach the copper ground lugs to the tower legs at the lowest INTERSECTIONAL brace hole position.

*DIMENSIONS X, Y, AND Z TO MATCH THOSE OF SECTION ABOVE



FOUNDATION BASE SECTION ELEVATION

MATERIAL LIST

HHD-SERIES & HD-120		
PIECE MARK	QTY.	DESCRIPTION
KK3AN-L (1)	3	7" x 1/4" x 5'-0"
UPPER BRACE	3	L 1-1/2" x 1-1/2" x 1/8" x 53-11/16"
LOWER BRACE	3	L 1-1/2" x 1-1/2" x 1/8" x 54-11/16"
DIAGONAL BRACE	3	L 1-1/2" x 1-1/2" x 1/8" x 69-1/8"
BRACE BOLT	12	1/2" Ø x 1 1/2" BOLT ASSEMBLY

HD-SERIES - 100' AND LESS		
PIECE MARK	QTY.	DESCRIPTION
KK3AN-L (3)	3	5-1/2" x 1/4" x 5'-0"
UPPER BRACE	3	L 1-1/2" x 1-1/2" x 1/8" x 46-1/2"
LOWER BRACE	3	L 1-1/2" x 1-1/2" x 1/8" x 47-3/4"
DIAGONAL BRACE	3	L 1-1/2" x 1-1/2" x 1/8" x 63-1/2"
BRACE BOLT	12	1/2" Ø x 1 1/2" BOLT ASSEMBLY

NOTES

- FOR SECTION LOCATION AND ORIENTATION SEE ASSEMBLY KEY.
- LOCK WASHERS TO BE INSTALLED AT ALL BOLTED CONNECTIONS.
- DESIGN AND FABRICATION IN ACCORDANCE WITH THE ANSI/AISC 360-05 STANDARD.
- BEND RADIUS FOR LEG = 1/2"
- STEEL GRADES :LEGS ASTM A572 GR. 50
:BRACES ASTM A36
:BRACE BOLTS ASTM A325, TYPE X
- ALL MATERIALS SHALL BE HOT-DIP GALVANIZED PER ASTM A123 AND A153

1	12-02-15	REVISED PER CLIENT
0	07-28-11	FABRICATION (TEP# 110001.04)

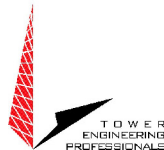
TOWER MANUFACTURER :



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JOB NO.: 64893_40585 DRAWN BY: LSB CHECKED BY: REG

SHEET TITLE :

FOUNDATION BASE SECTION

SHEET NUMBER :

ANW-S-B

REVISION:

1

SEAL:



December 2, 2015

HD-120 REQUIRED DRAWINGS

NO.	SHEET TITLE	REVISION	DATE
HD-120-KA	HD120 ASSEMBLY KEY	1	12-02-15
ANW-S1	SECTION 1 ASSEMBLY	1	12-02-15
ANW-S2	SECTION 2 ASSEMBLY	1	12-02-15
ANW-S3	SECTION 3 ASSEMBLY	1	12-02-15
ANW-S4	SECTION 4 ASSEMBLY	1	12-02-15
ANW-S5	SECTION 5 ASSEMBLY	1	12-02-15
ANW-S6	SECTION 6 ASSEMBLY	1	12-02-15
ANW-S7	SECTION 7 ASSEMBLY	1	12-02-15
ANW-S8	SECTION 8 ASSEMBLY	1	12-02-15
ANW-S9	SECTION 9 ASSEMBLY	1	12-02-15
ANW-S10	SECTION 10 ASSEMBLY	1	12-02-15
ANW-S11	SECTION 11 ASSEMBLY	1	12-02-15
ANW-S12	SECTION 12 ASSEMBLY	1	12-02-15

90-MPH 3-SECOND GUST (EXPOSURE B, STRUCTURE CLASS I, TOPOGRAPHIC CATEGORY 1) PER ANSI/TIA-222-G-2-2009, ASCE/SEI 7-05 AND THE 2009 INTERNATIONAL BUILDING CODE.
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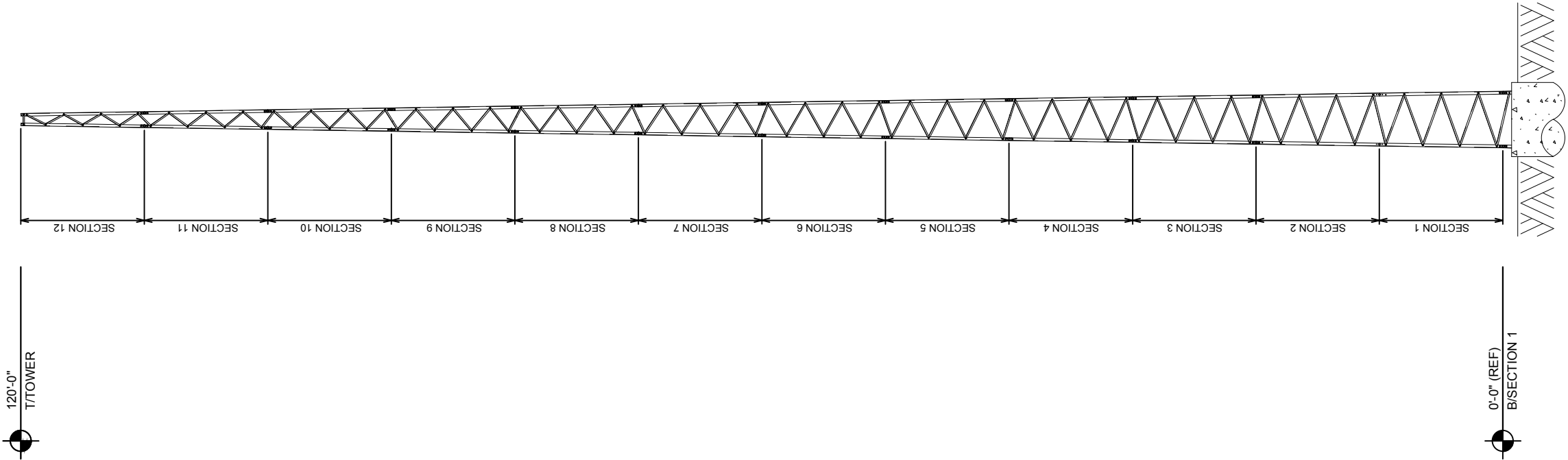
HEIGHT (FT.)	ANTENNA TYPE	LINE TYPE
120	CaAa = 15 sq. ft.	(3) 1/2"Ø coax

NOTES
1. FOR CLIMBING FACILITIES REFER TO AN WIRELESS.
2. FOR APPURTENANCE INSTALLATION REFER TO AN WIRELESS.



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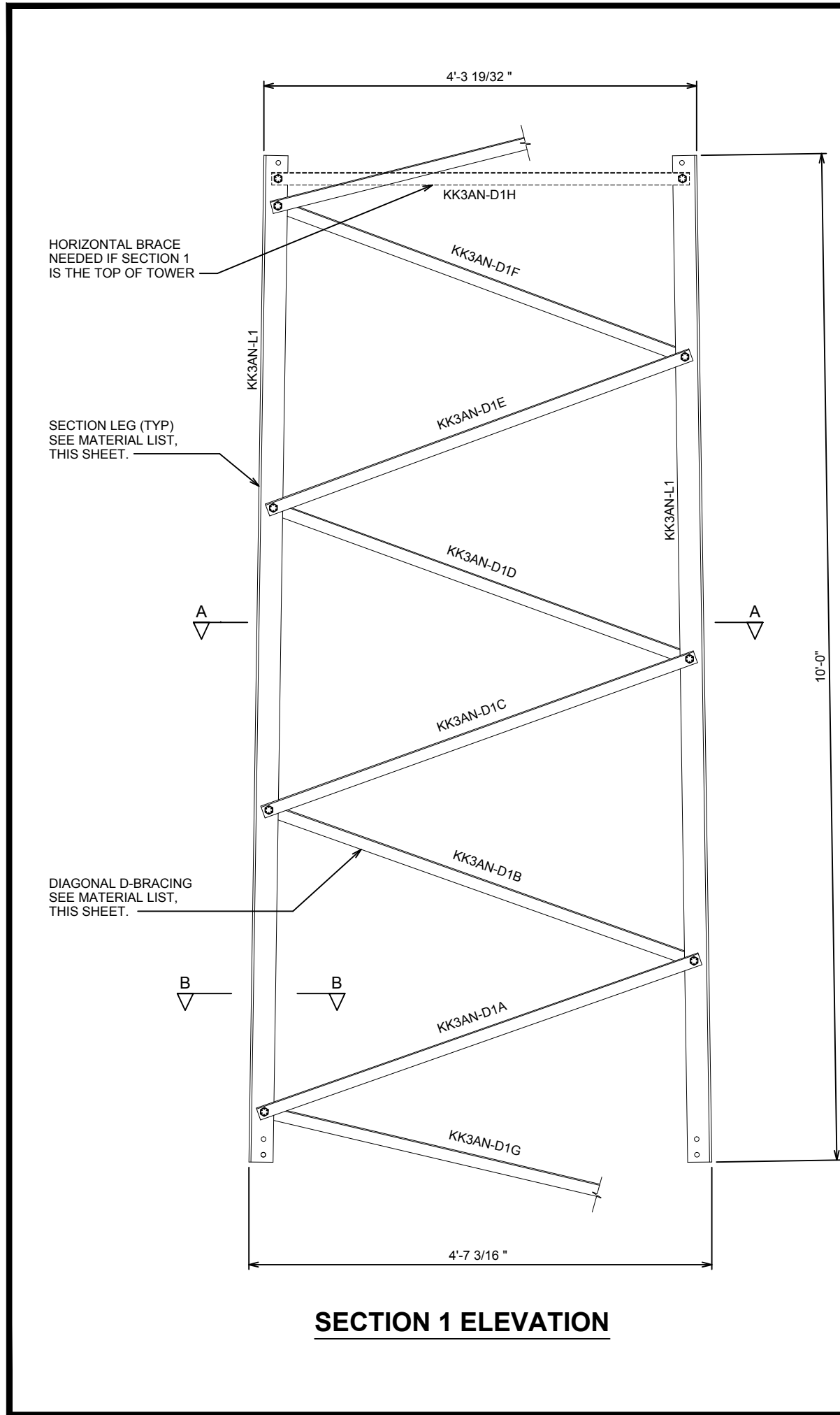


December 2, 2015

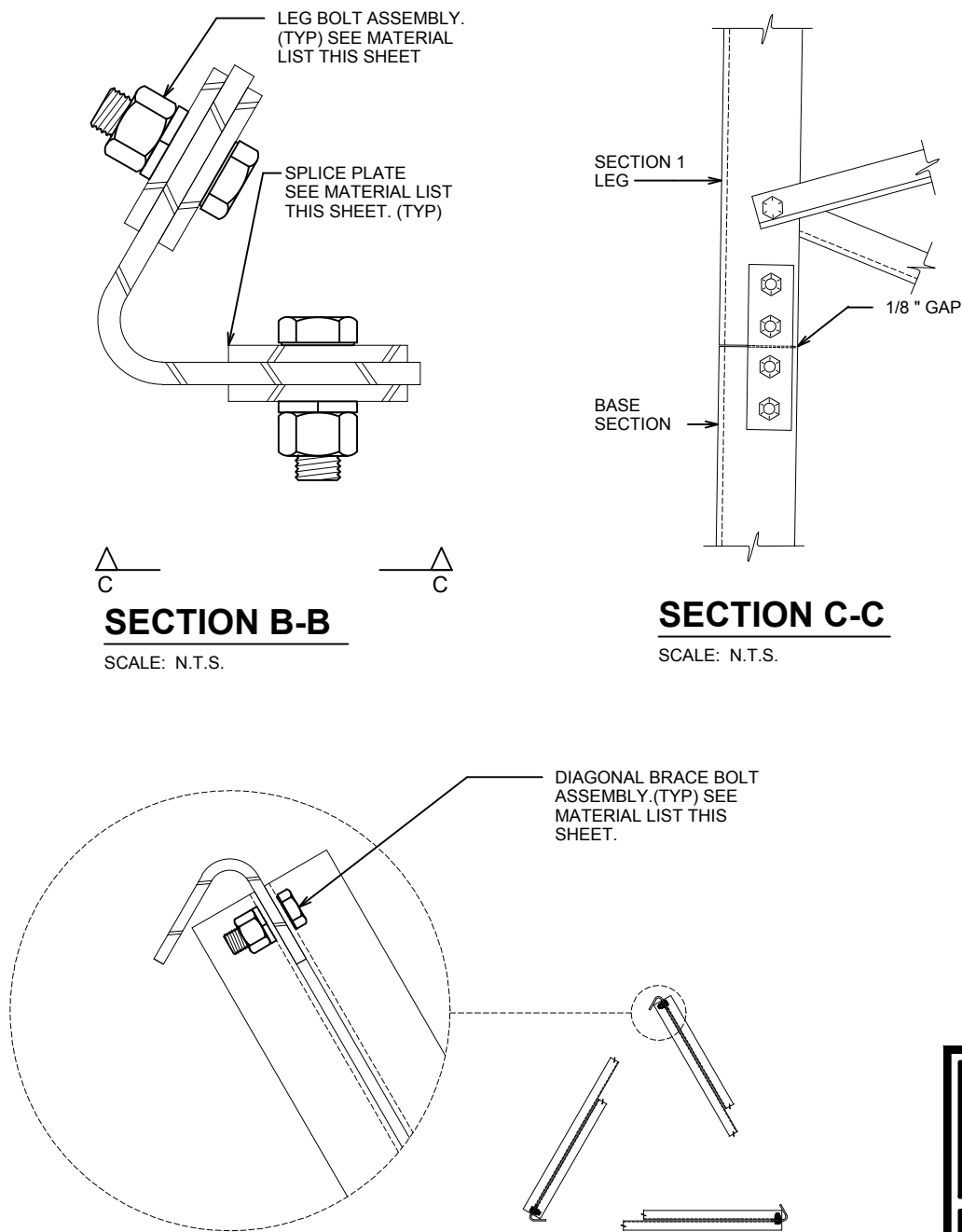


TOWER ELEVATION

<table><tr><td>1</td><td>12-02-15</td><td>REVISED PER CLIENT</td></tr><tr><td>0</td><td>02-01-05</td><td>CONSTRUCTION (TEP# 110001.04)</td></tr></table>			1	12-02-15	REVISED PER CLIENT	0	02-01-05	CONSTRUCTION (TEP# 110001.04)
1	12-02-15	REVISED PER CLIENT						
0	02-01-05	CONSTRUCTION (TEP# 110001.04)						
<div>TOWER MANUFACTURER :  AN Wireless Towers 350 Kuhn Fording Road East Berlin, PA 17316 Office: (717) 259-0419 Mobile: (717) 465-0519 www.anwtowers.com</div>	<div>TOWER DESIGNER :  TOWER ENGINEERING PROFESSIONALS 326 Tryon Road Raleigh, NC 27603 Office: (919) 661-6351 Fax: (919) 661-6350 www.tepgroup.net</div>							
JOB NO.: 64893_40585	DRAWN BY: LSB	CHECKED BY: REG						
SHEET TITLE : <div>HD120 ASSEMBLY KEY TBD TBD, TBD XXXXX (X COUNTY)</div>								
SHEET NUMBER : <div>HD-120-KA</div>		REVISION: <div>1</div>						



SECTION 1 ELEVATION



SECTION B-B

SCALE: N.T.S.

SECTION C-C

SCALE: N.T.S.

SECTION A-A

SCALE: N.T.S.

MATERIAL LIST

PIECE MARK	QTY.	DESCRIPTION
KK3AN-L1	3	7" x 1/4" x 10'-0"
KK3AN-D1A	3	L 1-1/2" x 1-1/2" x 1/8" x 55-13/16"
KK3AN-D1B	3	L 1-1/2" x 1-1/2" x 1/8" x 55-5/16"
KK3AN-D1C	3	L 1-1/2" x 1-1/2" x 1/8" x 54-13/16"
KK3AN-D1D	3	L 1-1/2" x 1-1/2" x 1/8" x 54-5/16"
KK3AN-D1E	3	L 1-1/2" x 1-1/2" x 1/8" x 53-13/16"
KK3AN-D1F	3	L 1-1/2" x 1-1/2" x 1/8" x 53-5/16"
KK3AN-D1G	3	L 1-1/2" x 1-1/2" x 1/8" x 54-3/4"
KK3AN-D1H	3	L 1-1/2" x 1-1/2" x 1/8" x 49-13/16"
BRACE BOLT	21	3/8" Ø x 1" BOLT ASSEMBLY
LEG BOLT	24	1/2" Ø x 1 1/2" BOLT ASSEMBLY
SPLICE PLATE	12	2" x 3/16" x 0'-7 3/8"

NOTES

- FOR SECTION LOCATION AND ORIENTATION SEE ASSEMBLY KEY.
- LOCKWASHERS TO BE INSTALLED AT ALL BOLTED CONNECTIONS.
- DESIGN AND FABRICATION IN ACCORDANCE WITH THE ANSI/AISC 360-05 STANDARD.
- APPROXIMATE THEORETICAL SECTION WEIGHT BEFORE GALVANIZING = 311#
- BEND RADIUS FOR LEG = 1/2"
- STEEL GRADES
:LEGS ASTM A572 GR. 50
:BRACES ASTM A36
:LEG BOLTS ASTM A325, TYPE X
:BRACE BOLTS SAE GRADE 5
:SPLICE PLATES ASTM A36
- ALL MATERIALS SHALL BE HOT-DIP GALVANIZED PER ASTM A123 AND A153

1	12-02-15	REVISED PER CLIENT
0	02-01-05	CONSTRUCTION (TEP# 110001.04)

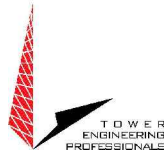
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JOB NO.: 64893_40585 DRAWN BY: LSB CHECKED BY: REG

SHEET TITLE :

SECTION 1 ASSEMBLY

SHEET NUMBER :

ANW-S1

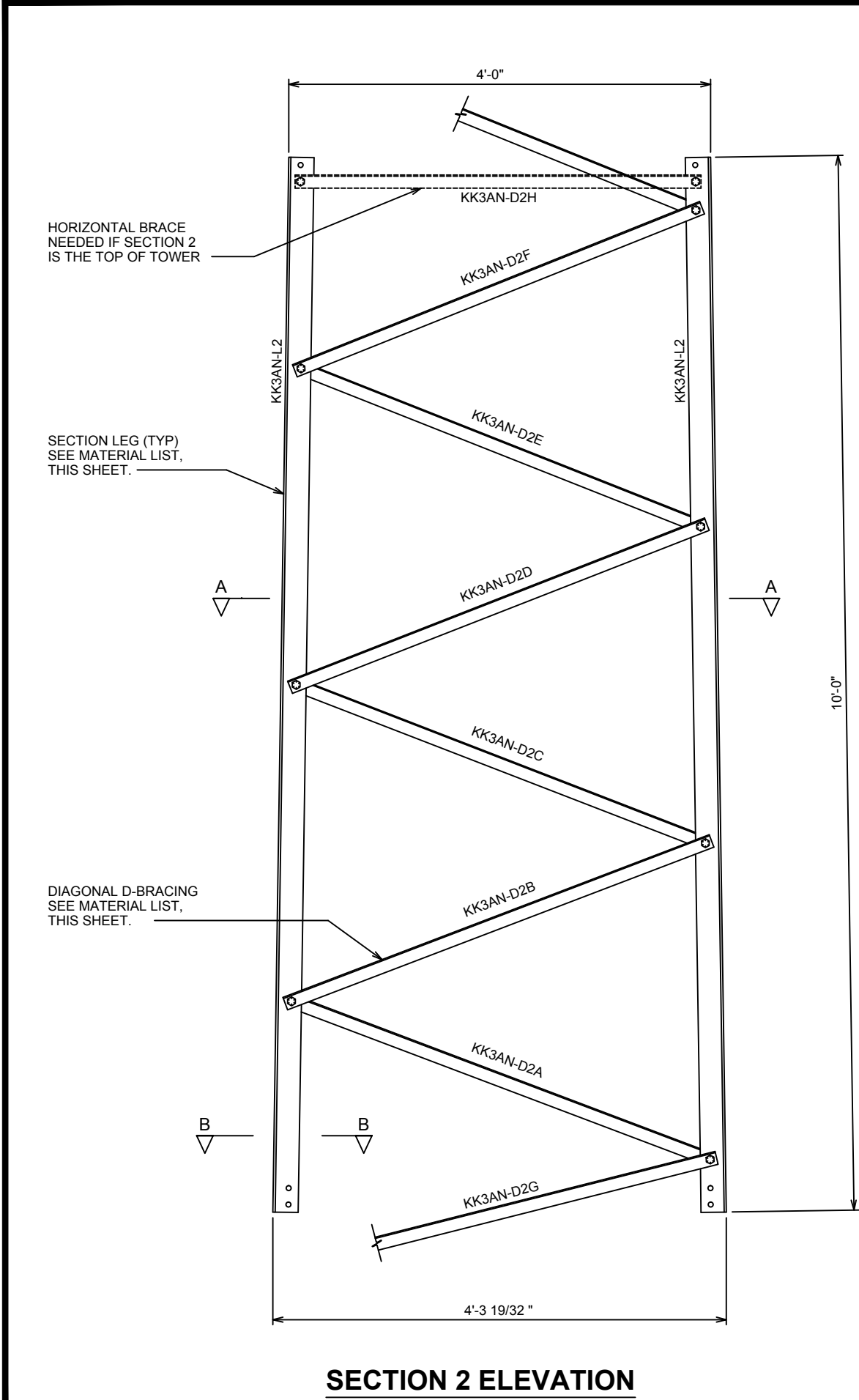
REVISION:

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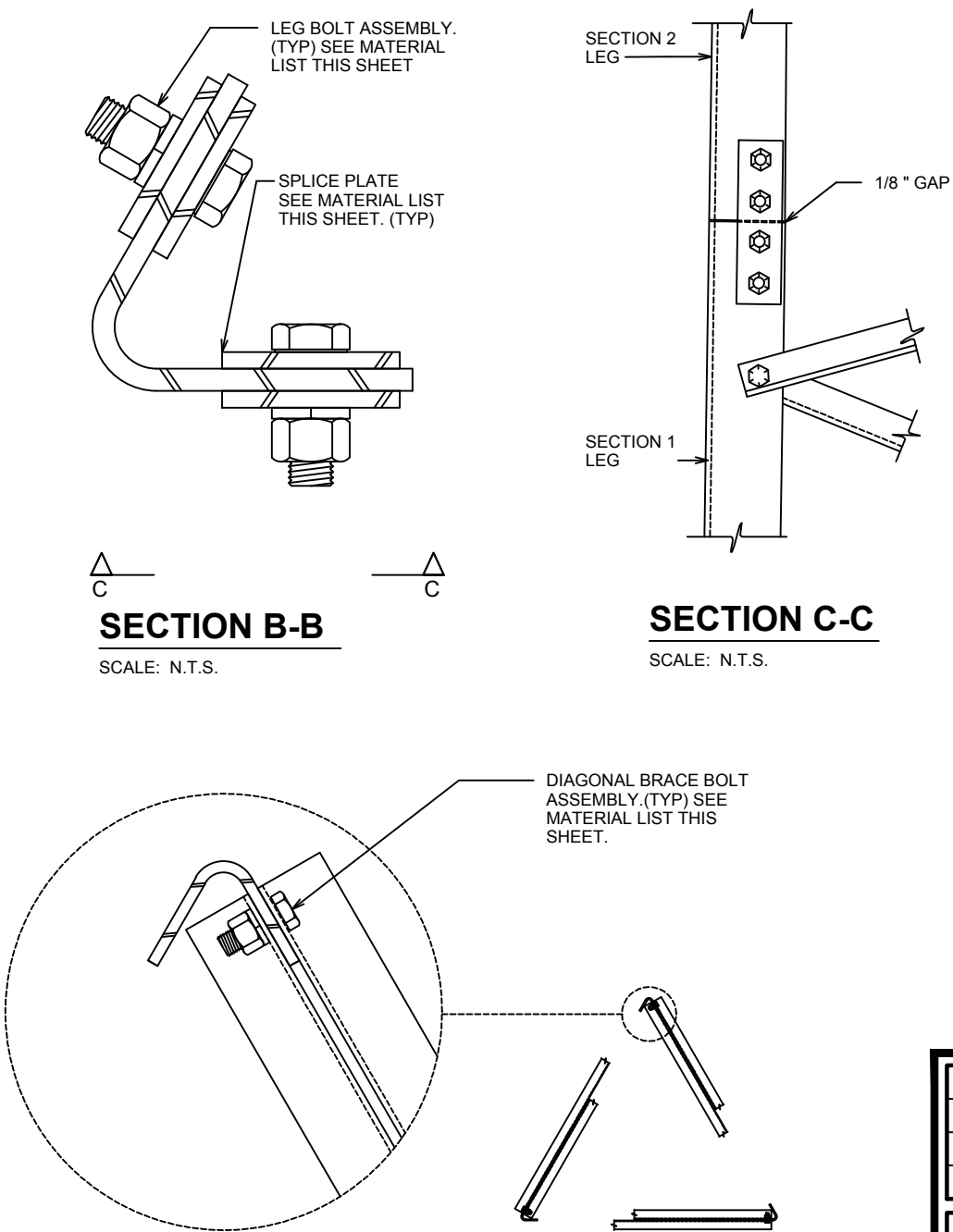
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December 2, 2015



SECTION 2 ELEVATION



SECTION B-B

SCALE: N.T.S.

SECTION C-C

SCALE: N.T.S.

SECTION A-A

SCALE: N.T.S.

MATERIAL LIST

PIECE MARK	QTY.	DESCRIPTION
KK3AN-L2	3	6 1/4" x 1/4" x 10'-0"
KK3AN-D2A	3	L 1-1/2" x 1-1/2" x 1/8" x 52-7/16"
KK3AN-D2B	3	L 1-1/2" x 1-1/2" x 1/8" x 51-15/16"
KK3AN-D2C	3	L 1-1/2" x 1-1/2" x 1/8" x 51-7/16"
KK3AN-D2D	3	L 1-1/2" x 1-1/2" x 1/8" x 50-15/16"
KK3AN-D2E	3	L 1-1/2" x 1-1/2" x 1/8" x 50-7/16"
KK3AN-D2F	3	L 1-1/2" x 1-1/2" x 1/8" x 49-15/16"
KK3AN-D2G	3	L 1-1/2" x 1-1/2" x 1/8" x 51-1/4"
KK3AN-D2H	3	L 1-1/2" x 1-1/2" x 1/8" x 46-3/16"
BRACE BOLT	21	3/8" Ø x 1" BOLT ASSEMBLY
LEG BOLT	24	1/2" Ø x 1 1/2" BOLT ASSEMBLY
SPLICE PLATE	12	2" x 3/16" x 0'-7 3/8"

NOTES

- FOR SECTION LOCATION AND ORIENTATION SEE ASSEMBLY KEY.
- LOCKWASHERS TO BE INSTALLED AT ALL BOLTED CONNECTIONS.
- DESIGN AND FABRICATION IN ACCORDANCE WITH THE ANSI/AISC 360-05 STANDARD.
- APPROXIMATE THEORETICAL SECTION WEIGHT BEFORE GALVANIZING = 284#
- BEND RADIUS FOR LEG = 1/2 "
- STEEL GRADES
:LEGS ASTM A572 GR. 50
:BRACES ASTM A36
:LEG BOLTS ASTM A325, TYPE X
:BRACE BOLTS SAE GRADE 5
:SPLICE PLATES ASTM A36
- ALL MATERIALS SHALL BE HOT-DIP GALVANIZED PER ASTM A123 AND A153

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0	02-01-05	CONSTRUCTION (TEP# 110001.04)

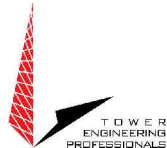
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JOB NO.: 64893_40585	DRAWN BY: LSB	CHECKED BY: REG
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SHEET TITLE :

SECTION 2 ASSEMBLY

SHEET NUMBER :

ANW-S2

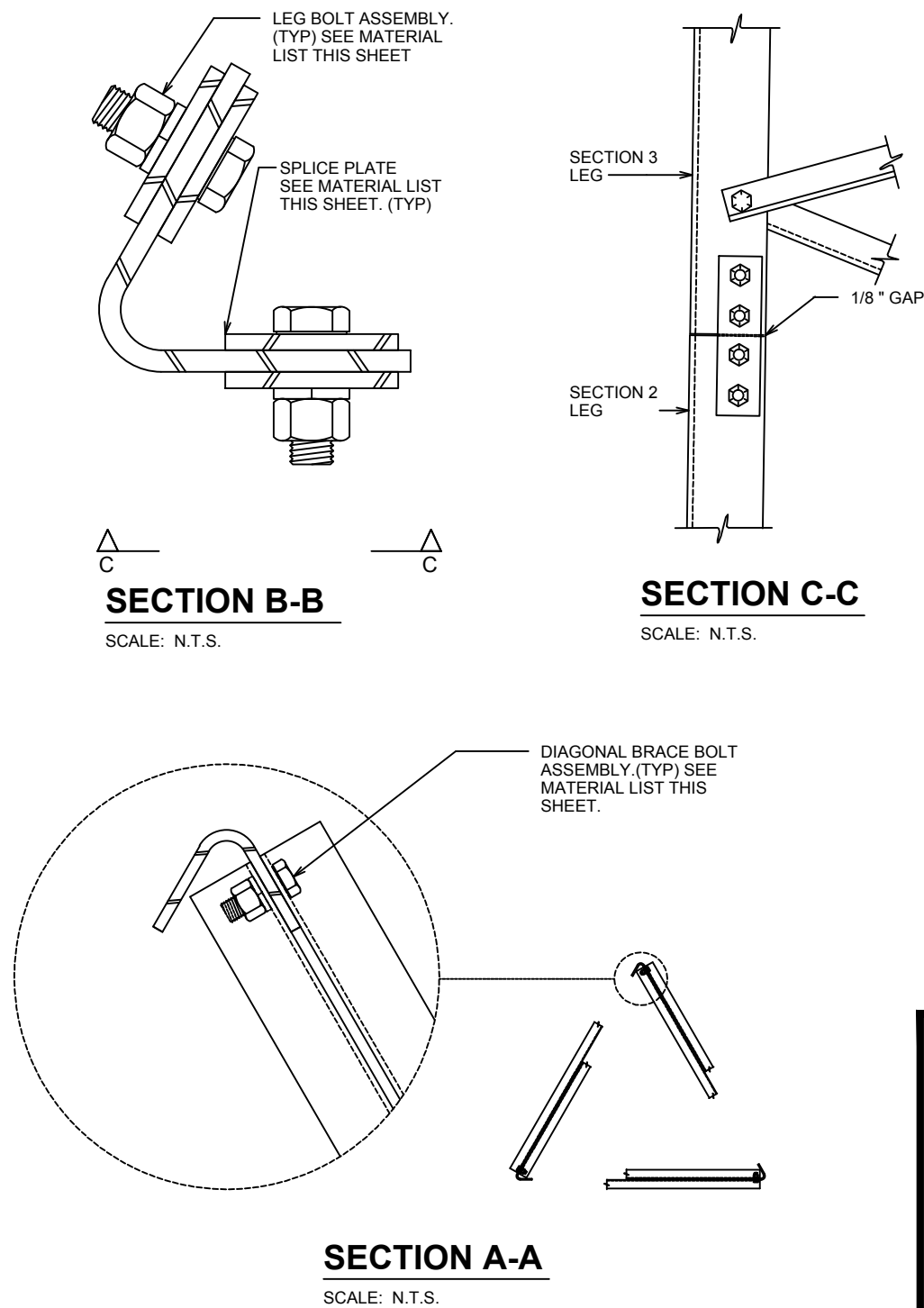
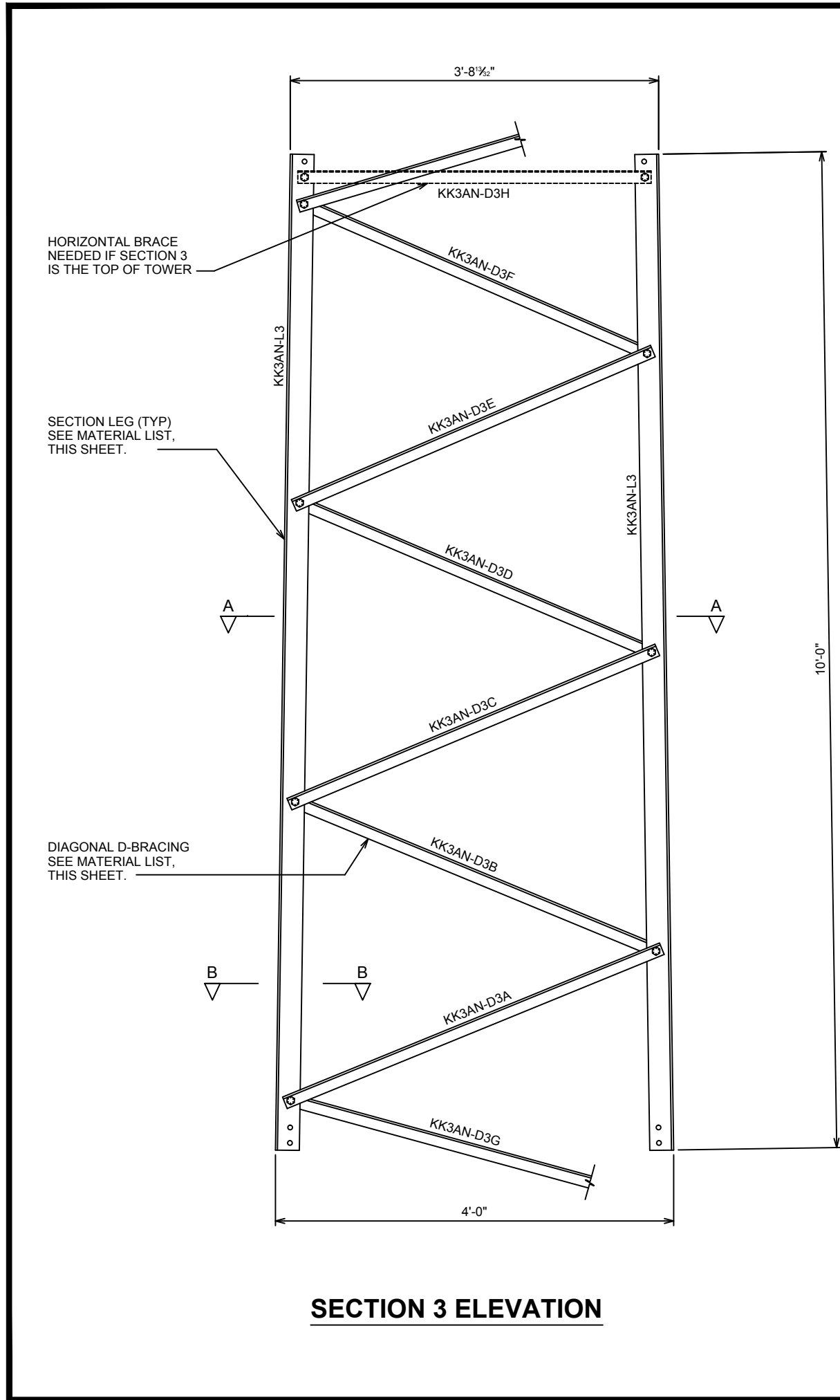
REVISION:

1

SEAL:



December 2, 2015



MATERIAL LIST		
PIECE MARK	QTY.	DESCRIPTION
KK3AN-L3	3	P 5-1/2" x 1/4" x 10'-0"
KK3AN-D3A	3	L 1-1/2" x 1-1/2" x 1/8" x 49-1/16"
KK3AN-D3B	3	L 1-1/2" x 1-1/2" x 1/8" x 48-9/16"
KK3AN-D3C	3	L 1-1/2" x 1-1/2" x 1/8" x 48-1/16"
KK3AN-D3D	3	L 1-1/2" x 1-1/2" x 1/8" x 47-9/16"
KK3AN-D3E	3	L 1-1/2" x 1-1/2" x 1/8" x 47-1/16"
KK3AN-D3F	3	L 1-1/2" x 1-1/2" x 1/8" x 46-9/16"
KK3AN-D3G	3	L 1-1/2" x 1-1/2" x 1/8" x 47-7/8"
KK3AN-D3H	3	L 1-1/2" x 1-1/2" x 1/8" x 42-9/16"
BRACE BOLT	21	3/8" Ø x 1" BOLT ASSEMBLY
LEG BOLT	24	1/2" Ø x 1 1/2" BOLT ASSEMBLY
SPLICE PLATE	12	P 2" x 3/16" x 0'- 7 3/8"

- NOTES
1.

FOR SECTION LOCATION AND ORIENTATION SEE ASSEMBLY KEY.
2.

LOCKWASHERS TO BE INSTALLED AT ALL BOLTED CONNECTIONS.
3.

DESIGN AND FABRICATION IN ACCORDANCE WITH THE ANSI/AISC 360-05 STANDARD.
4.

APPROXIMATE THEORETICAL SECTION WEIGHT BEFORE GALVANIZING = 256#
5.

BEND RADIUS FOR LEG = 1/2 "
6.

STEEL GRADES

:LEGS

ASTM A572 GR. 50

:BRACES

ASTM A36

:LEG BOLTS

ASTM A325, TYPE X

:BRACE BOLTS

SAE GRADE 5

:SPLICE PLATES

ASTM A36
7.

ALL MATERIALS SHALL BE HOT-DIP GALVANIZED PER ASTM A123 AND A153

SEAL:

December 2, 2015

1	12-02-15	REVISED PER CLIENT
0	02-01-05	CONSTRUCTION (TEP# 110001.04)

TOWER MANUFACTURER :

AN Wireless Towers

350 Kuhn Fording Road
East Berlin, PA 17316
Office: (717) 259-0419
Mobile: (717) 465-0519
www.anwtowers.com

TOWER DESIGNER :

TOWER ENGINEERING PROFESSIONALS

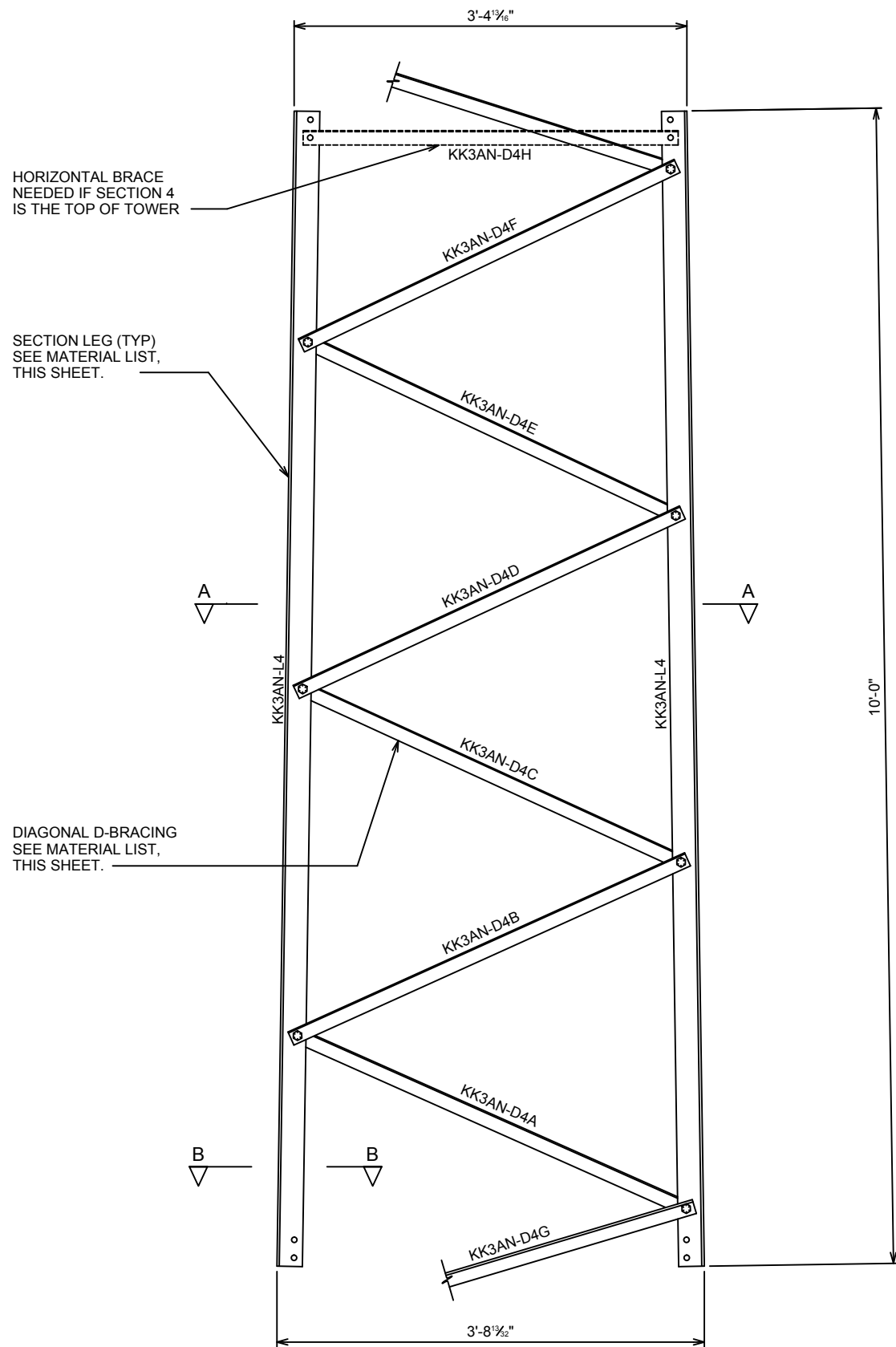
326 Tryon Road
Raleigh, NC 27603
Office: (919) 661-6351
Fax: (919) 661-6350
www.tepgroup.net

JOB NO.: 64893_40585	DRAWN BY: LSB	CHECKED BY: REG
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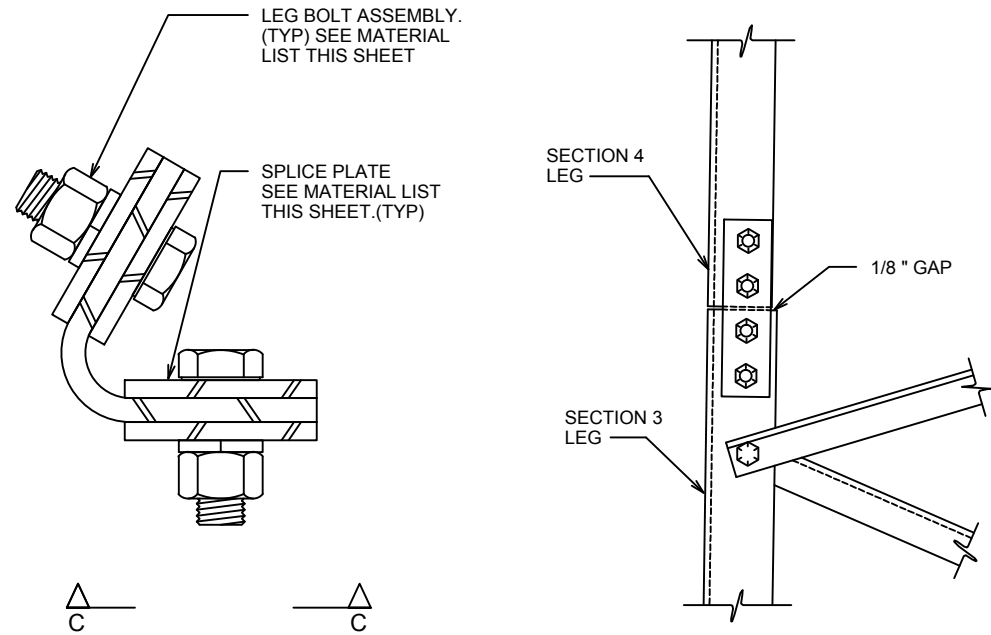
SHEET TITLE :

SECTION 3 ASSEMBLY

SHEET NUMBER :	REVISION:
ANW-S3	1



SECTION 4 ELEVATION

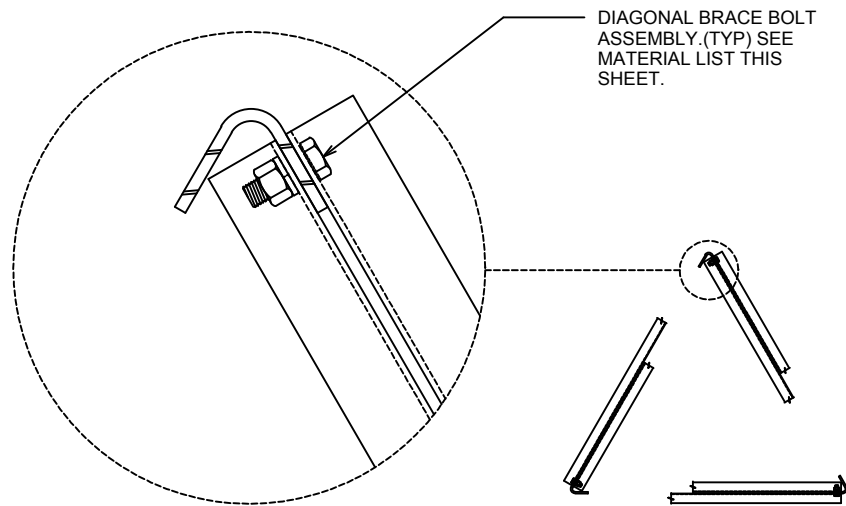


SECTION B-B

SCALE: N.T.S.

SECTION C-C

SCALE: N.T.S.



SECTION A-A

SCALE: N.T.S.

MATERIAL LIST

PIECE MARK	QTY.	DESCRIPTION
KK3AN-L4	3	L 5" x 1/4" x 10'-0"
KK3AN-D4A	3	L 1-1/2" x 1-1/2" x 1/8" x 46"
KK3AN-D4B	3	L 1-1/2" x 1-1/2" x 1/8" x 45-1/2"
KK3AN-D4C	3	L 1-1/2" x 1-1/2" x 1/8" x 44-15/16"
KK3AN-D4D	3	L 1-1/2" x 1-1/2" x 1/8" x 44-1/2"
KK3AN-D4E	3	L 1-1/2" x 1-1/2" x 1/8" x 44"
KK3AN-D4F	3	L 1-1/2" x 1-1/2" x 1/8" x 43-1/2"
KK3AN-D4G	3	L 1-1/2" x 1-1/2" x 1/8" x 44-3/8"
KK3AN-D4H	3	L 1-1/2" x 1-1/2" x 1/8" x 38-15/16"
BRACE BOLT	21	3/8" Ø x 1" BOLT ASSEMBLY
LEG BOLT	24	1/2" Ø x 1 1/2" BOLT ASSEMBLY
SPLICE PLATE	12	L 2" x 3/16" x 0'-7 3/8"

NOTES

- FOR SECTION LOCATION AND ORIENTATION SEE ASSEMBLY KEY.
- LOCKWASHERS TO BE INSTALLED AT ALL BOLTED CONNECTIONS.
- DESIGN AND FABRICATION IN ACCORDANCE WITH THE ANSI/AISC 360-05 STANDARD.
- APPROXIMATE THEORETICAL SECTION WEIGHT BEFORE GALVANIZING = 235#
- BEND RADIUS FOR LEG = 1/2 "
- STEEL GRADES :LEGS ASTM A572 GR. 50
:BRACES ASTM A36
:LEG BOLTS ASTM A325, TYPE X
:BRACE BOLTS SAE GRADE 5
:SPLICE PLATES ASTM A36
- ALL MATERIALS SHALL BE HOT-DIP GALVANIZED PER ASTM A123 AND A153

1	12-02-15	REVISED PER CLIENT
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JOB NO.: 64893_40585 DRAWN BY: LSB CHECKED BY: REG

SHEET TITLE :

SECTION 4 ASSEMBLY

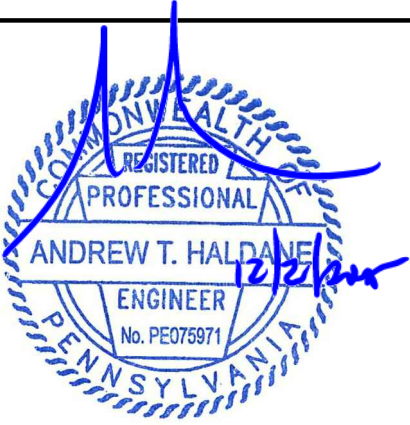
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ANW-S4

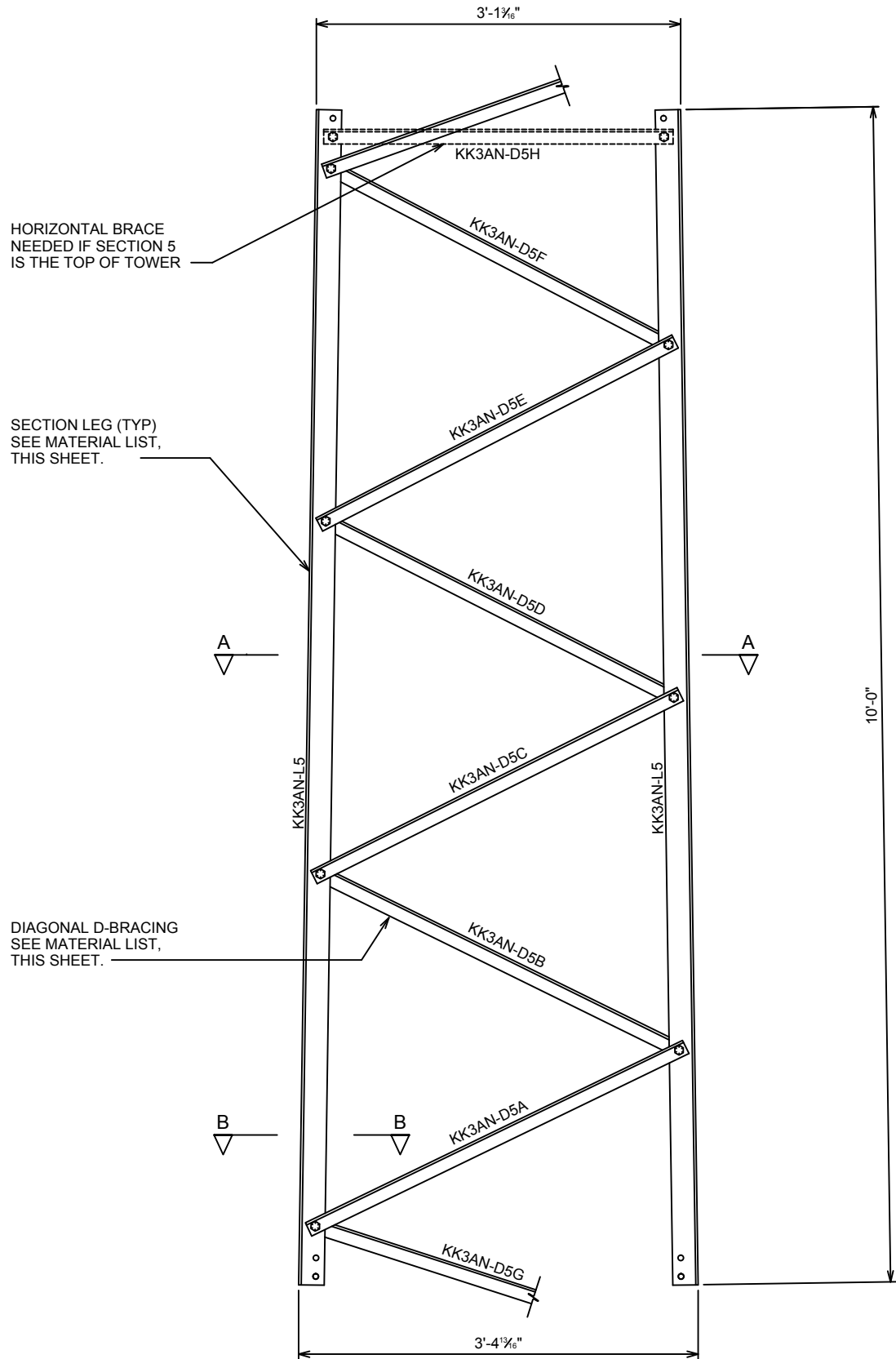
REVISION:

1

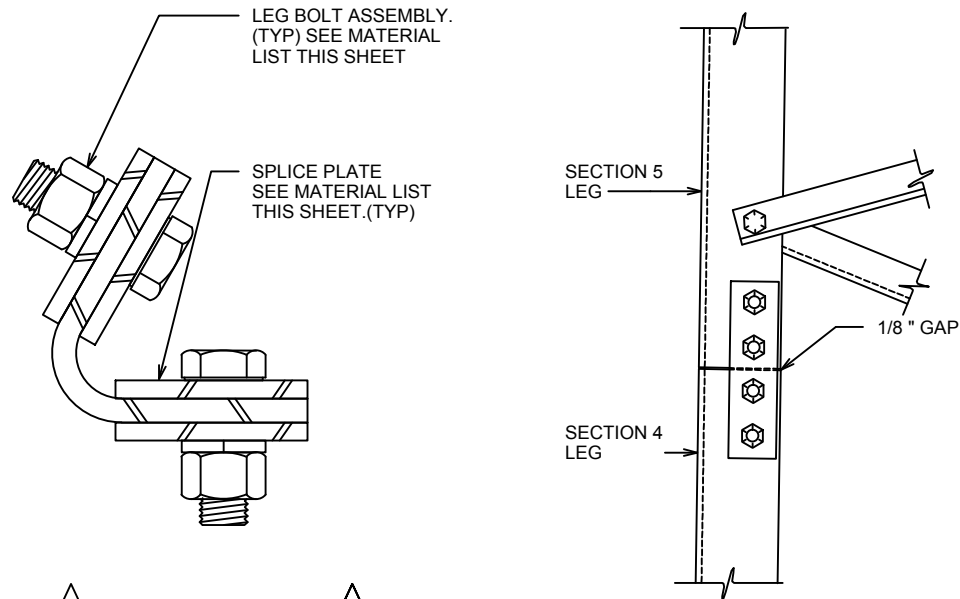
SEAL:



December 2, 2015



SECTION 5 ELEVATION

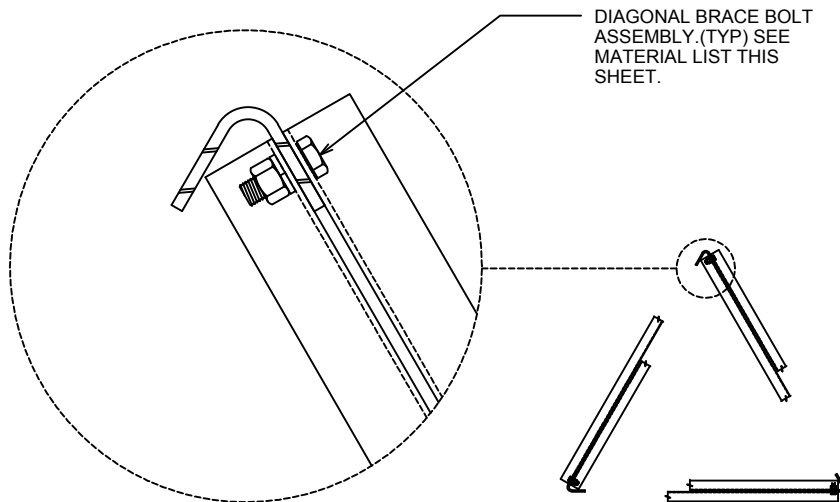


SECTION B-B

SCALE: N.T.S.

SECTION C-C

SCALE: N.T.S.



SECTION A-A

SCALE: N.T.S.

MATERIAL LIST

PIECE MARK	QTY.	DESCRIPTION
KK3AN-L5	3	∅ 5" x 1/4" x 10'-0"
KK3AN-D5A	3	L 1-1/2" x 1-1/2" x 1/8" x 42-3/4"
KK3AN-D5B	3	L 1-1/2" x 1-1/2" x 1/8" x 42-5/16"
KK3AN-D5C	3	L 1-1/2" x 1-1/2" x 1/8" x 41-13/16"
KK3AN-D5D	3	L 1-1/2" x 1-1/2" x 1/8" x 41-3/8"
KK3AN-D5E	3	L 1-1/2" x 1-1/2" x 1/8" x 40-7/8"
KK3AN-D5F	3	L 1-1/2" x 1-1/2" x 1/8" x 40-3/8"
KK3AN-D5G	3	L 1-1/2" x 1-1/2" x 1/8" x 41"
KK3AN-D5H	3	L 1-1/2" x 1-1/2" x 1/8" x 35-11/16"
BRACE BOLT	21	3/8" Ø x 1" BOLT ASSEMBLY
LEG BOLT	24	1/2" Ø x 1 1/2" BOLT ASSEMBLY
SPLICE PLATE	12	∅ 1 3/4" x 3/16" x 0'-7 3/8"

NOTES

- FOR SECTION LOCATION AND ORIENTATION SEE ASSEMBLY KEY.
- LOCKWASHERS TO BE INSTALLED AT ALL BOLTED CONNECTIONS.
- DESIGN AND FABRICATION IN ACCORDANCE WITH THE ANSI/AISC 360-05 STANDARD.
- APPROXIMATE THEORETICAL SECTION WEIGHT BEFORE GALVANIZING = 227#
- BEND RADIUS FOR LEG = 1/2 "
- STEEL GRADES :LEGS ASTM A572 GR. 50
:BRACES ASTM A36
:LEG BOLTS ASTM A325, TYPE X
:BRACE BOLTS SAE GRADE 5
:SPLICE PLATES ASTM A36
- ALL MATERIALS SHALL BE HOT-DIP GALVANIZED PER ASTM A123 AND A153

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JOB NO.: 64893_40585 DRAWN BY: LSB CHECKED BY: REG

SHEET TITLE :

SECTION 5 ASSEMBLY

SHEET NUMBER :

ANW-S5

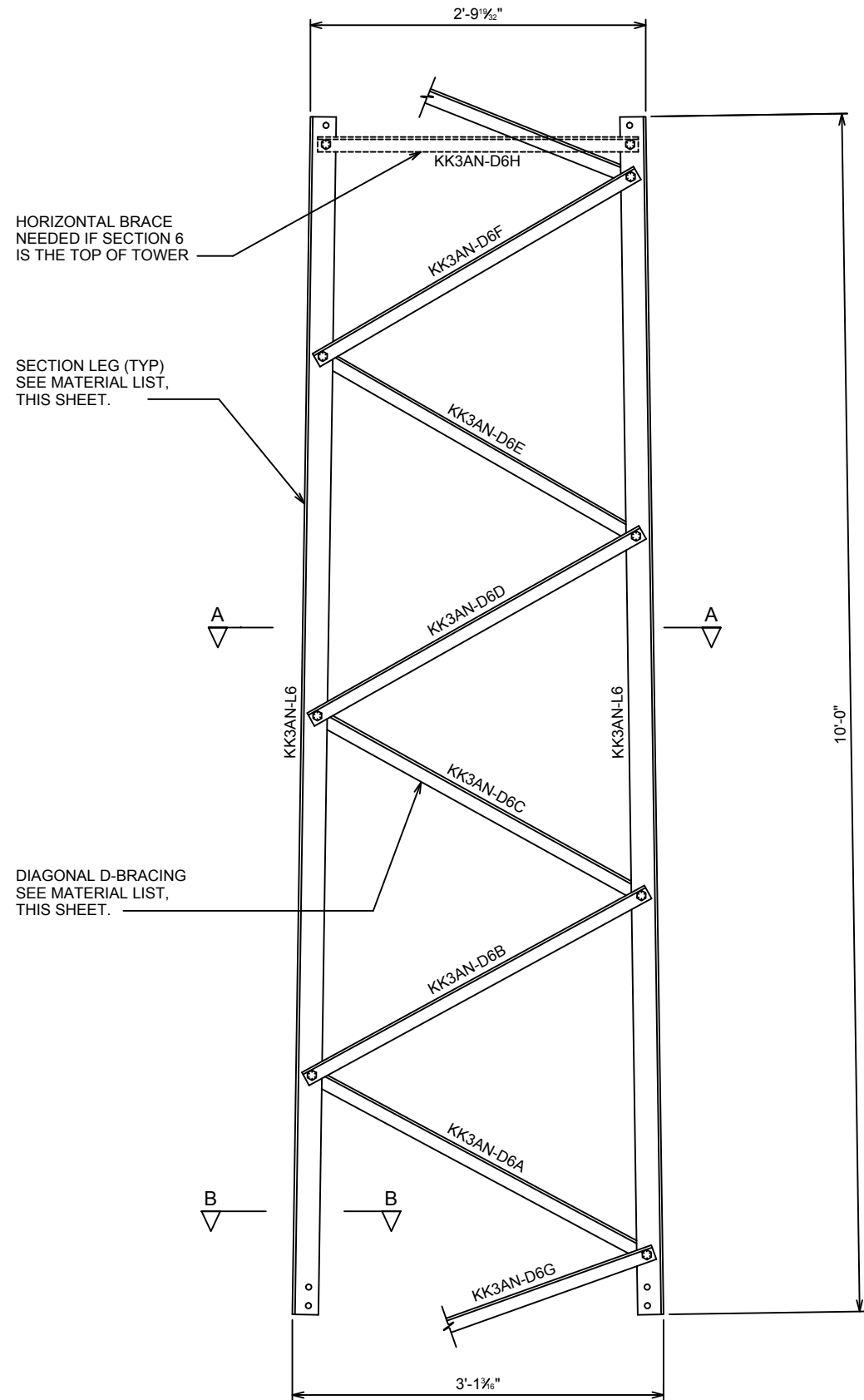
REVISION:

1

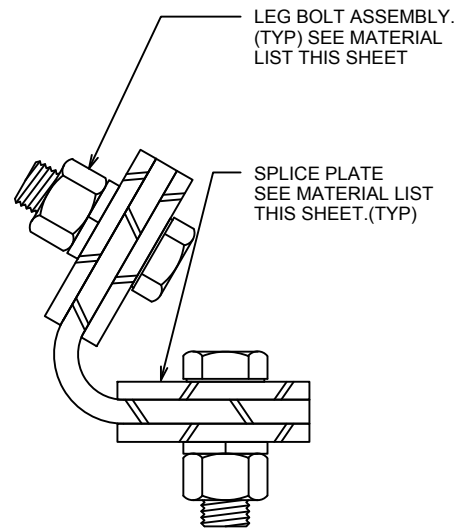
SEAL:



December 2, 2015

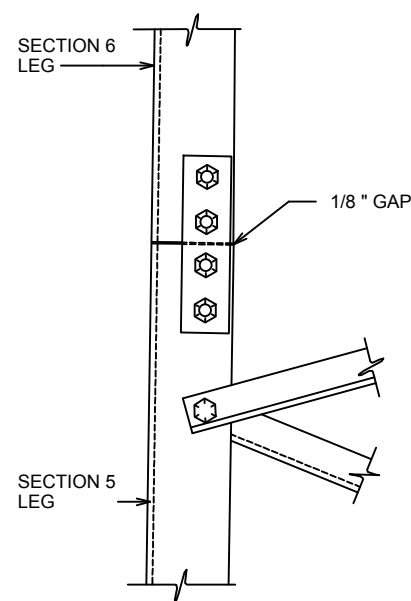


SECTION 6 ELEVATION



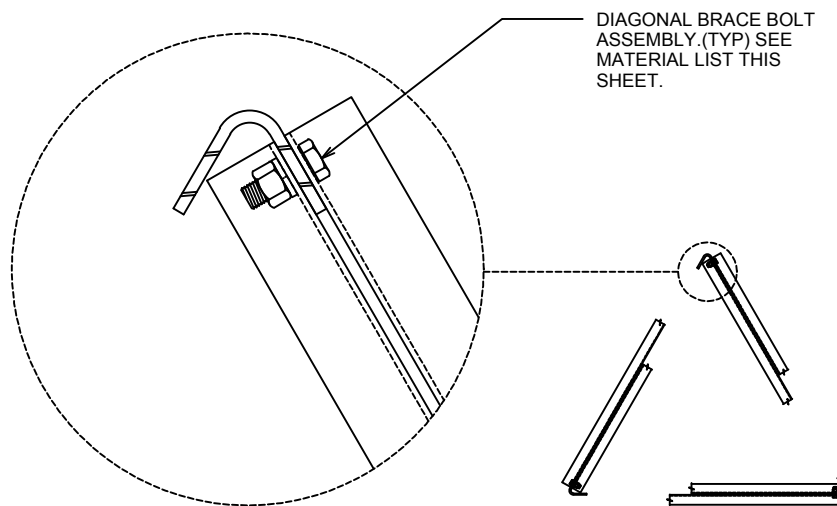
SECTION B-B

SCALE: N.T.S.



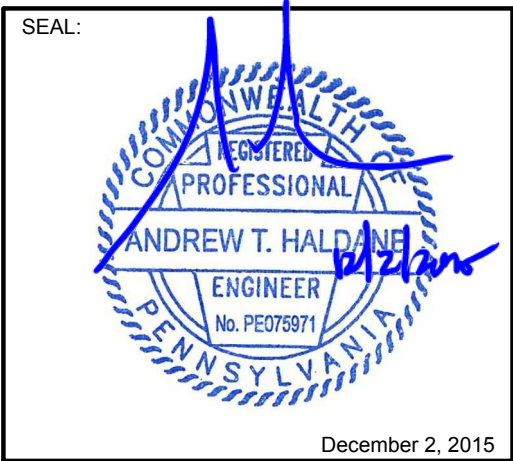
SECTION C-C

SCALE: N.T.S.



SECTION A-A

SCALE: N.T.S.



MATERIAL LIST

PIECE MARK	QTY.	DESCRIPTION
KK3AN-L6	3	∅ 5" x 1/4" x 10'-0"
KK3AN-D6A	3	L 1-1/2" x 1-1/2" x 1/8" x 39-9/16"
KK3AN-D6B	3	L 1-1/2" x 1-1/2" x 1/8" x 39-1/4"
KK3AN-D6C	3	L 1-1/2" x 1-1/2" x 1/8" x 38-11/16"
KK3AN-D6D	3	L 1-1/2" x 1-1/2" x 1/8" x 38-3/16"
KK3AN-D6E	3	L 1-1/2" x 1-1/2" x 1/8" x 37-11/16"
KK3AN-D6F	3	L 1-1/2" x 1-1/2" x 1/8" x 37-1/4"
KK3AN-D6G	3	L 1-1/2" x 1-1/2" x 1/8" x 37-3/4"
KK3AN-D6H	3	L 1-1/2" x 1-1/2" x 1/8" x 32-1/8"
BRACE BOLT	21	3/8" ∅ x 1" BOLT ASSEMBLY
LEG BOLT	24	1/2" ∅ x 1 1/2" BOLT ASSEMBLY
SPlice PLATE	12	∅ 1 3/4" x 3/16" x 0'-7 3/8"

NOTES

- FOR SECTION LOCATION AND ORIENTATION SEE ASSEMBLY KEY.
- LOCKWASHERS TO BE INSTALLED AT ALL BOLTED CONNECTIONS.
- DESIGN AND FABRICATION IN ACCORDANCE WITH THE ANSI/AISC 360-05 STANDARD.
- APPROXIMATE THEORETICAL SECTION WEIGHT BEFORE GALVANIZING = 220#
- BEND RADIUS FOR LEG = 1/2 "
- STEEL GRADES :LEGS ASTM A572 GR. 50
:BRACES ASTM A36
:LEG BOLTS ASTM A325, TYPE X
:BRACE BOLTS SAE GRADE 5
:SPlice PLATES ASTM A36
- ALL MATERIALS SHALL BE HOT-DIP GALVANIZED PER ASTM A123 AND A153

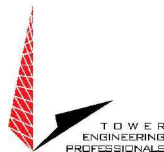
1	12-02-15	REVISED PER CLIENT
0	02-01-05	CONSTRUCTION (TEP# 110001.04)

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TOWER DESIGNER :



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Raleigh, NC 27603
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www.tepgroup.net

JOB NO.: 64893_40585 | DRAWN BY: LSB | CHECKED BY: REG

SHEET TITLE :

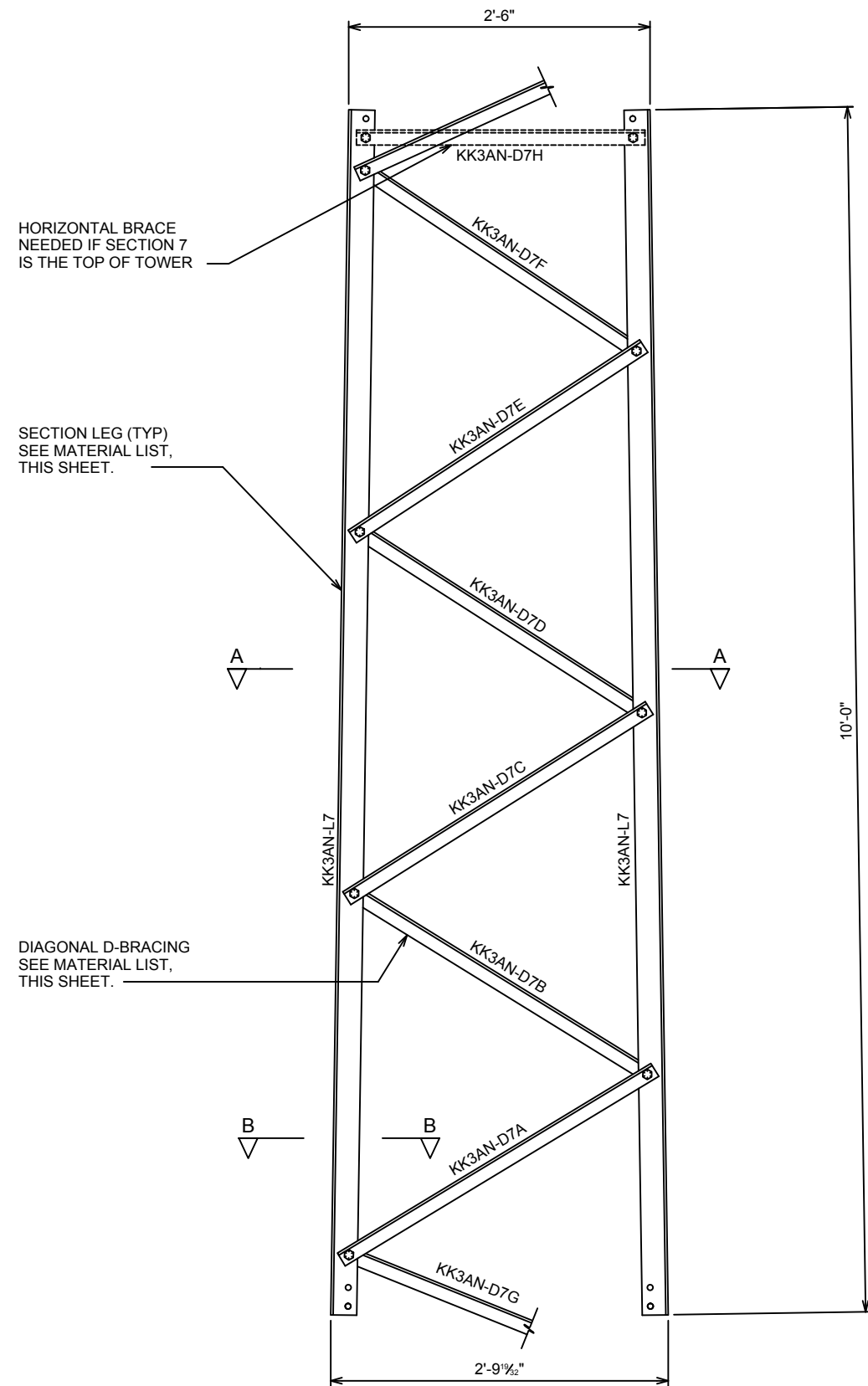
SECTION 6 ASSEMBLY

SHEET NUMBER :

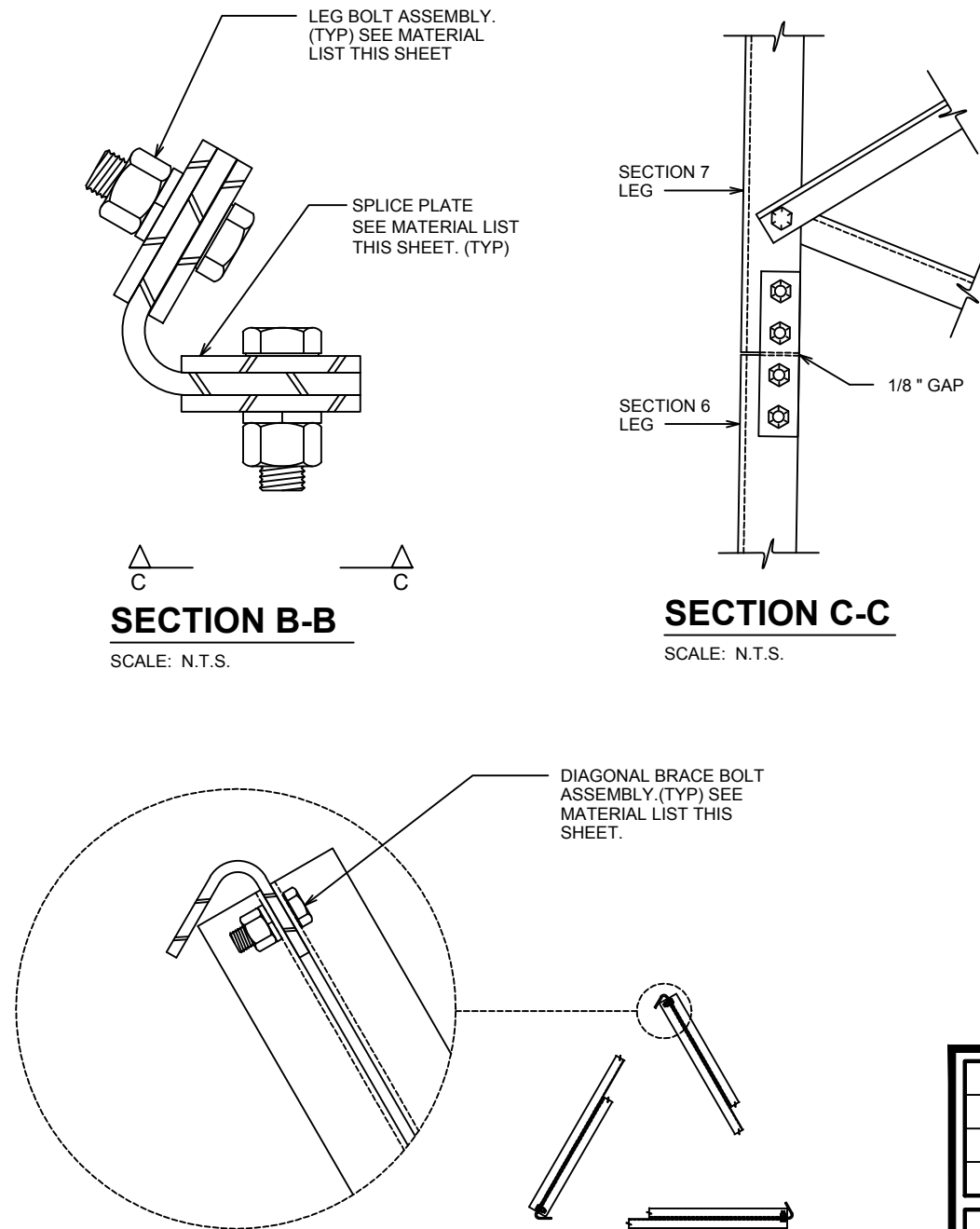
ANW-S6

REVISION:

1



SECTION 7 ELEVATION



SECTION B-B

SCALE: N.T.S.

SECTION C-C

SCALE: N.T.S.

SECTION A-A

SCALE: N.T.S.

MATERIAL LIST

PIECE MARK	QTY.	DESCRIPTION
KK3AN-L7	3	5" x 3/16" x 10'-0"
KK3AN-D7A	3	L 1-1/2" x 1-1/2" x 1/8" x 36-1/2"
KK3AN-D7B	3	L 1-1/2" x 1-1/2" x 1/8" x 36-1/16"
KK3AN-D7C	3	L 1-1/2" x 1-1/2" x 1/8" x 35-9/16"
KK3AN-D7D	3	L 1-1/2" x 1-1/2" x 1/8" x 35-1/8"
KK3AN-D7E	3	L 1-1/2" x 1-1/2" x 1/8" x 34-5/8"
KK3AN-D7F	3	L 1-1/2" x 1-1/2" x 1/8" x 34-1/4"
KK3AN-D7G	3	L 1-1/2" x 1-1/2" x 1/8" x 34-1/4"
KK3AN-D7H	3	L 1-1/2" x 1-1/2" x 1/8" x 28-3/4"
BRACE BOLT	21	3/8" Ø x 1" BOLT ASSEMBLY
LEG BOLT	24	1/2" Ø x 1-1/2" BOLT ASSEMBLY
SPLICE PLATE	12	1 3/4" x 3/16" x 0'-7 3/8"

NOTES

- FOR SECTION LOCATION AND ORIENTATION SEE ASSEMBLY KEY.
- LOCKWASHERS TO BE INSTALLED AT ALL BOLTED CONNECTIONS.
- DESIGN AND FABRICATION IN ACCORDANCE WITH THE ANSI/AISC 360-05 STANDARD.
- APPROXIMATE THEORETICAL SECTION WEIGHT BEFORE GALVANIZING = 180#
- BEND RADIUS FOR LEG = 1/2 "
- STEEL GRADES
:LEGS ASTM A572 GR. 50
:BRACES ASTM A36
:LEG BOLTS ASTM A325, TYPE X
:BRACE BOLTS SAE GRADE 5
:SPLICE PLATES ASTM A36
- ALL MATERIALS SHALL BE HOT-DIP GALVANIZED PER ASTM A123 AND A153

1	12-02-15	REVISED PER CLIENT
0	02-01-05	CONSTRUCTION (TEP# 110001.04)

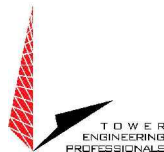
TOWER MANUFACTURER :



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JOB NO.: 64893_40585 DRAWN BY: LSB CHECKED BY: REG

SHEET TITLE :

SECTION 7 ASSEMBLY

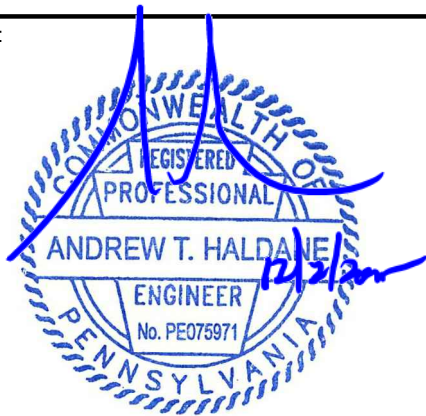
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ANW-S7

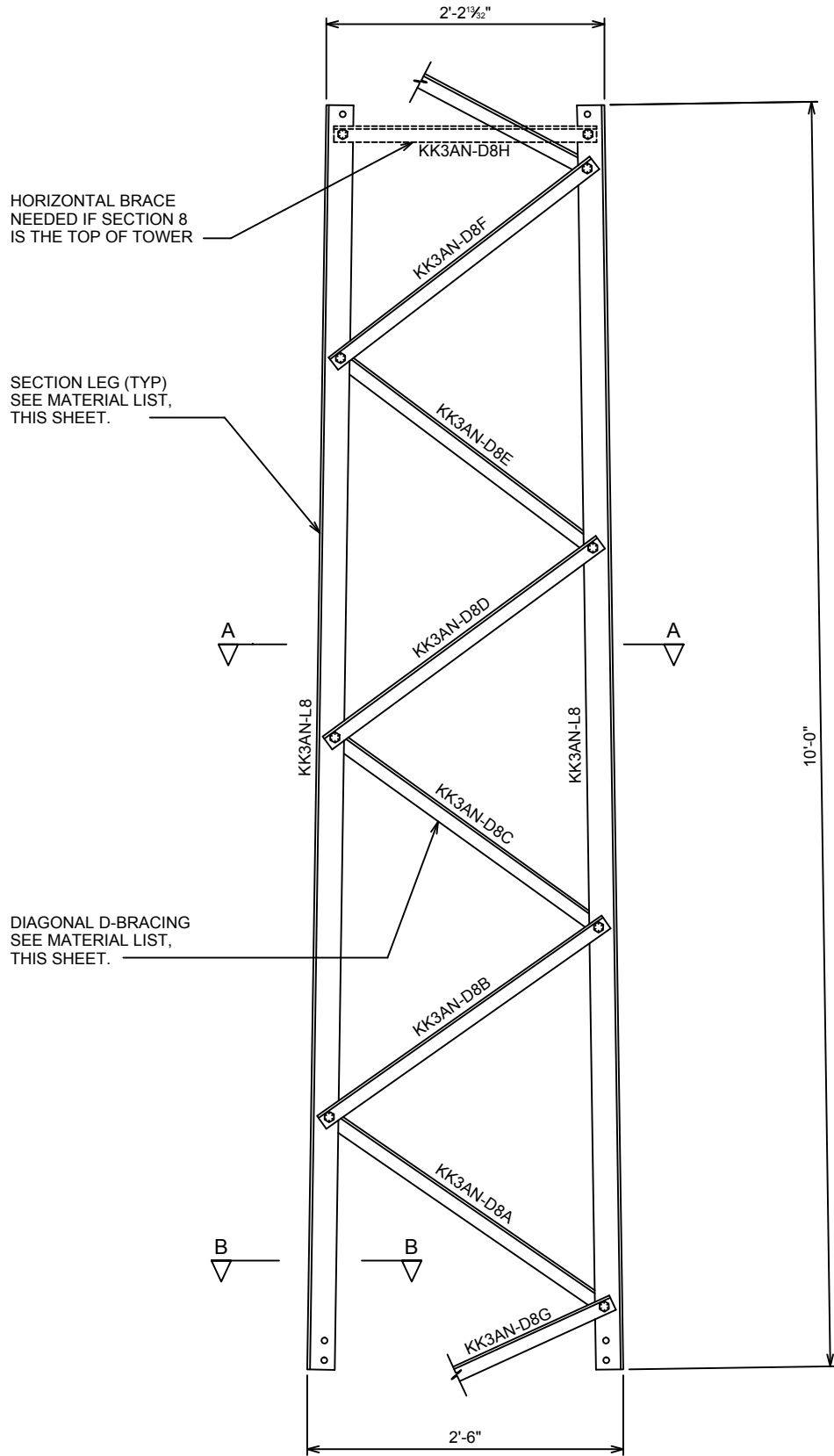
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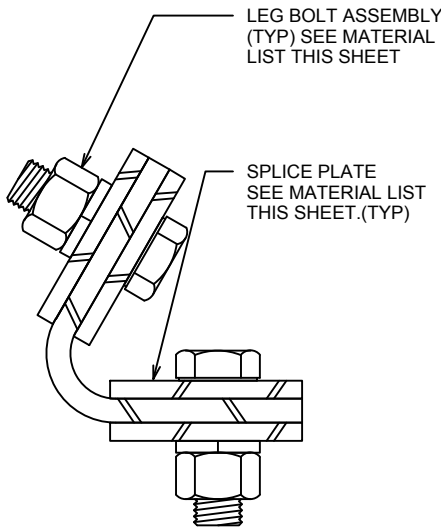
SEAL:



December 2, 2015

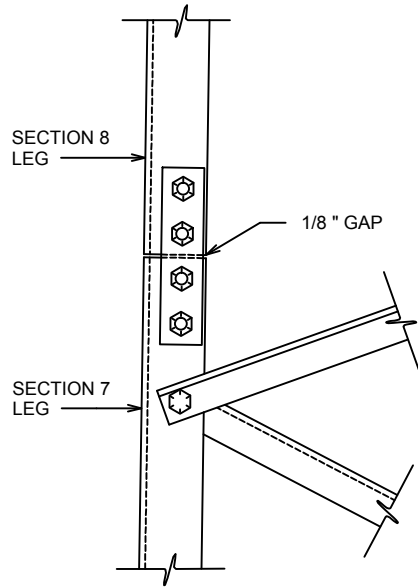


SECTION 8 ELEVATION



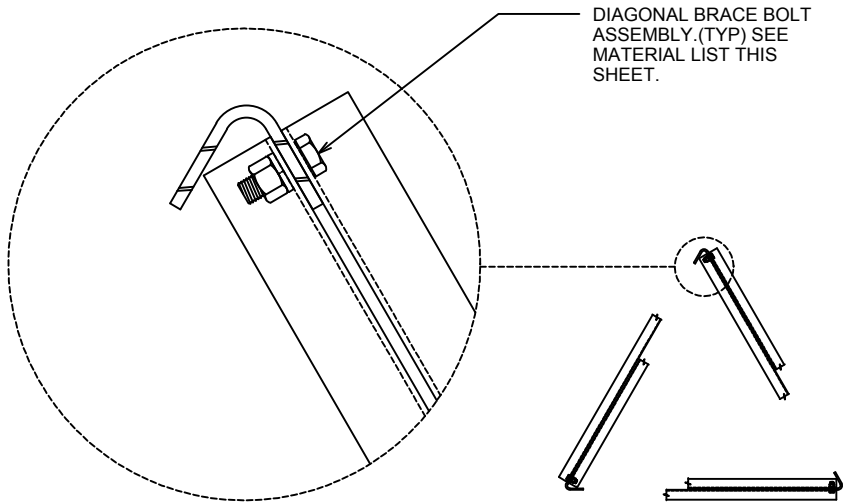
SECTION B-B

SCALE: N.T.S.



SECTION C-C

SCALE: N.T.S.



SECTION A-A

SCALE: N.T.S.

MATERIAL LIST

PIECE MARK	QTY.	DESCRIPTION
KK3AN-L8	3	L 5" x 3/16" x 10'-0"
KK3AN-D8A	3	L 1-1/2" x 1-1/2" x 1/8" x 33-7/16"
KK3AN-D8B	3	L 1-1/2" x 1-1/2" x 1/8" x 33-1/16"
KK3AN-D8C	3	L 1-1/2" x 1-1/2" x 1/8" x 32-9/16"
KK3AN-D8D	3	L 1-1/2" x 1-1/2" x 1/8" x 32-1/8"
KK3AN-D8E	3	L 1-1/2" x 1-1/2" x 1/8" x 31-3/4"
KK3AN-D8F	3	L 1-1/2" x 1-1/2" x 1/8" x 31-5/16"
KK3AN-D8G	3	L 1-1/2" x 1-1/2" x 1/8" x 31"
KK3AN-D8H	3	L 1-1/2" x 1-1/2" x 1/8" x 24-15/16"
BRACE BOLT	21	3/8" Ø x 1" BOLT ASSEMBLY
LEG BOLT	24	1/2" Ø x 1 1/2" BOLT ASSEMBLY
SPLICE PLATE	12	L 1 3/4" x 3/16" x 0'-7 3/8"

NOTES

- FOR SECTION LOCATION AND ORIENTATION SEE ASSEMBLY KEY.
- LOCKWASHERS TO BE INSTALLED AT ALL BOLTED CONNECTIONS.
- DESIGN AND FABRICATION IN ACCORDANCE WITH THE ANSI/AISC 360-05 STANDARD.
- APPROXIMATE THEORETICAL SECTION WEIGHT BEFORE GALVANIZING = 172#
- BEND RADIUS FOR LEG = 1/2 "
- STEEL GRADES :LEGS ASTM A572 GR. 50
:BRACES ASTM A36
:LEG BOLTS ASTM A325, TYPE X
:BRACE BOLTS SAE GRADE 5
:SPLICE PLATES ASTM A36
- ALL MATERIALS SHALL BE HOT-DIP GALVANIZED PER ASTM A123 AND A153

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JOB NO.: 64893_40585 DRAWN BY: LSB CHECKED BY: REG

SHEET TITLE :

SECTION 8 ASSEMBLY

SHEET NUMBER :

ANW-S8

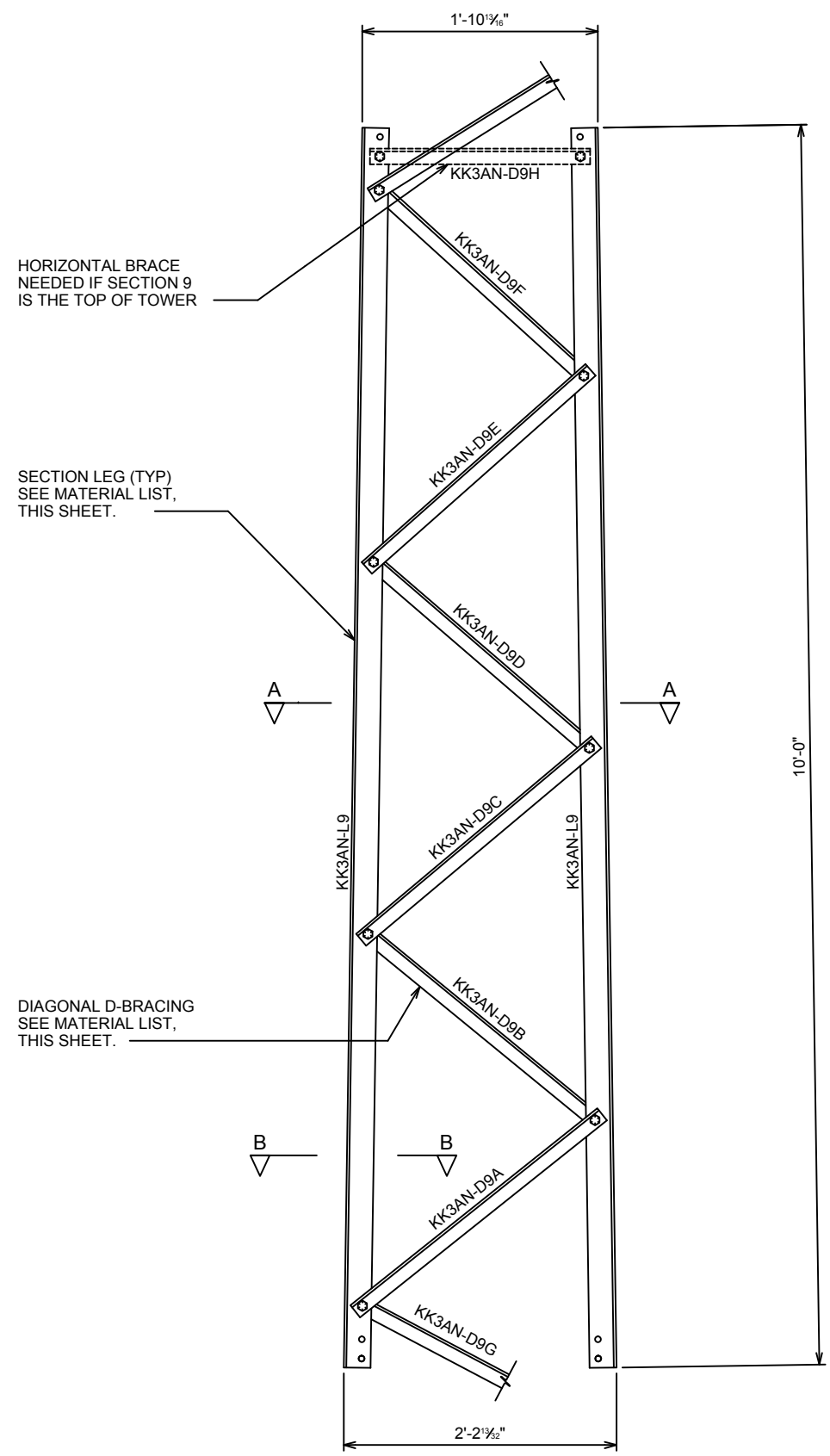
REVISION:

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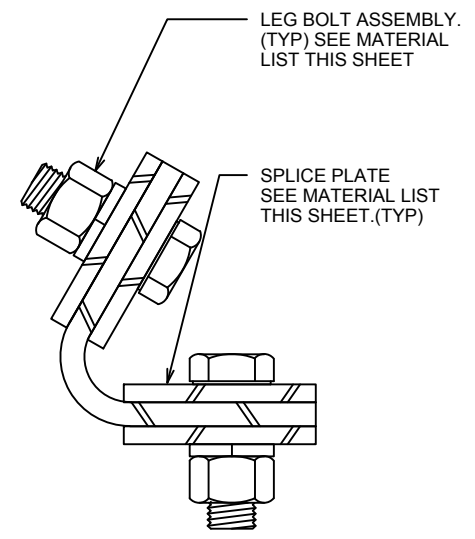
SEAL:



December 2, 2015

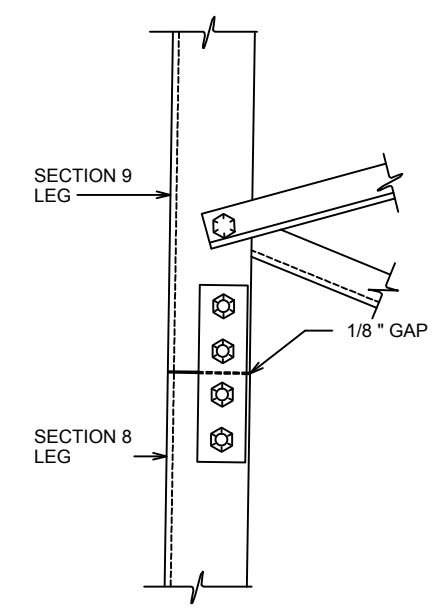


SECTION 9 ELEVATION



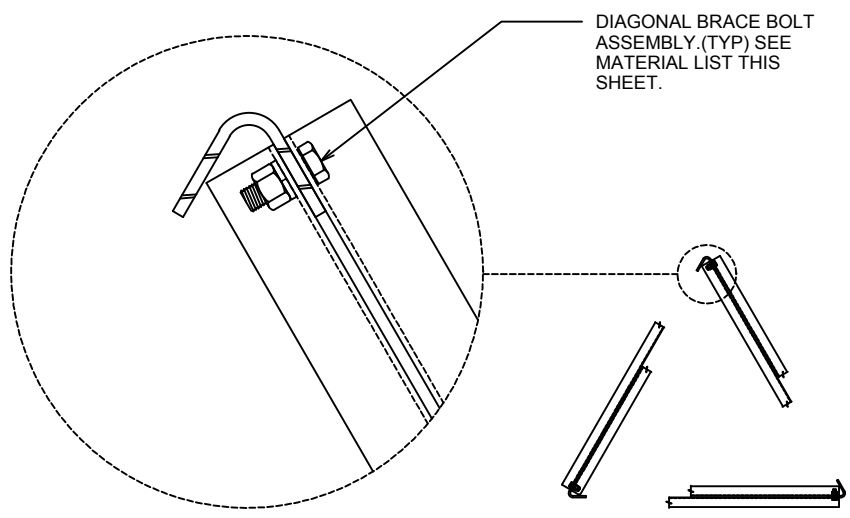
SECTION B-B

SCALE: N.T.S.



SECTION C-C

SCALE: N.T.S.



SECTION A-A

SCALE: N.T.S.

MATERIAL LIST

PIECE MARK	QTY.	DESCRIPTION
KK3AN-L9	3	5" x 3/16" x 10'-0"
KK3AN-D9A	3	L 1-1/2" x 1-1/2" x 1/8" x 30-9/16"
KK3AN-D9B	3	L 1-1/2" x 1-1/2" x 1/8" x 30-1/8"
KK3AN-D9C	3	L 1-1/2" x 1-1/2" x 1/8" x 29-7/8"
KK3AN-D9D	3	L 1-1/2" x 1-1/2" x 1/8" x 29-5/16"
KK3AN-D9E	3	L 1-1/2" x 1-1/2" x 1/8" x 28-15/16"
KK3AN-D9F	3	L 1-1/2" x 1-1/2" x 1/8" x 28-1/2"
KK3AN-D9G	3	L 1-1/2" x 1-1/2" x 1/8" x 27-7/8"
KK3AN-D9H	3	L 1-1/2" x 1-1/2" x 1/8" x 21-5/16"
BRACE BOLT	21	3/8" Ø x 1" BOLT ASSEMBLY
LEG BOLT	24	1/2" Ø x 1 1/2" BOLT ASSEMBLY
SPLICE PLATE	12	1 3/4" x 3/16" x 0'-7 3/8"

NOTES

- FOR SECTION LOCATION AND ORIENTATION SEE ASSEMBLY KEY.
- LOCKWASHERS TO BE INSTALLED AT ALL BOLTED CONNECTIONS.
- DESIGN AND FABRICATION IN ACCORDANCE WITH THE ANSI/AISC 360-05 STANDARD.
- APPROXIMATE THEORETICAL SECTION WEIGHT BEFORE GALVANIZING = 165#
- BEND RADIUS FOR LEG = 1/2 "
- STEEL GRADES :LEGS ASTM A572 GR. 50
:BRACES ASTM A36
:LEG BOLTS ASTM A325, TYPE X
:BRACE BOLTS SAE GRADE 5
:SPLICE PLATES ASTM A36
- ALL MATERIALS SHALL BE HOT-DIP GALVANIZED PER ASTM A123 AND A153

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JOB NO.: 64893_40585	DRAWN BY: LSB	CHECKED BY: REG
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SHEET TITLE :

SECTION 9 ASSEMBLY

SHEET NUMBER :	REVISION:
ANW-S9	1

SEAL:

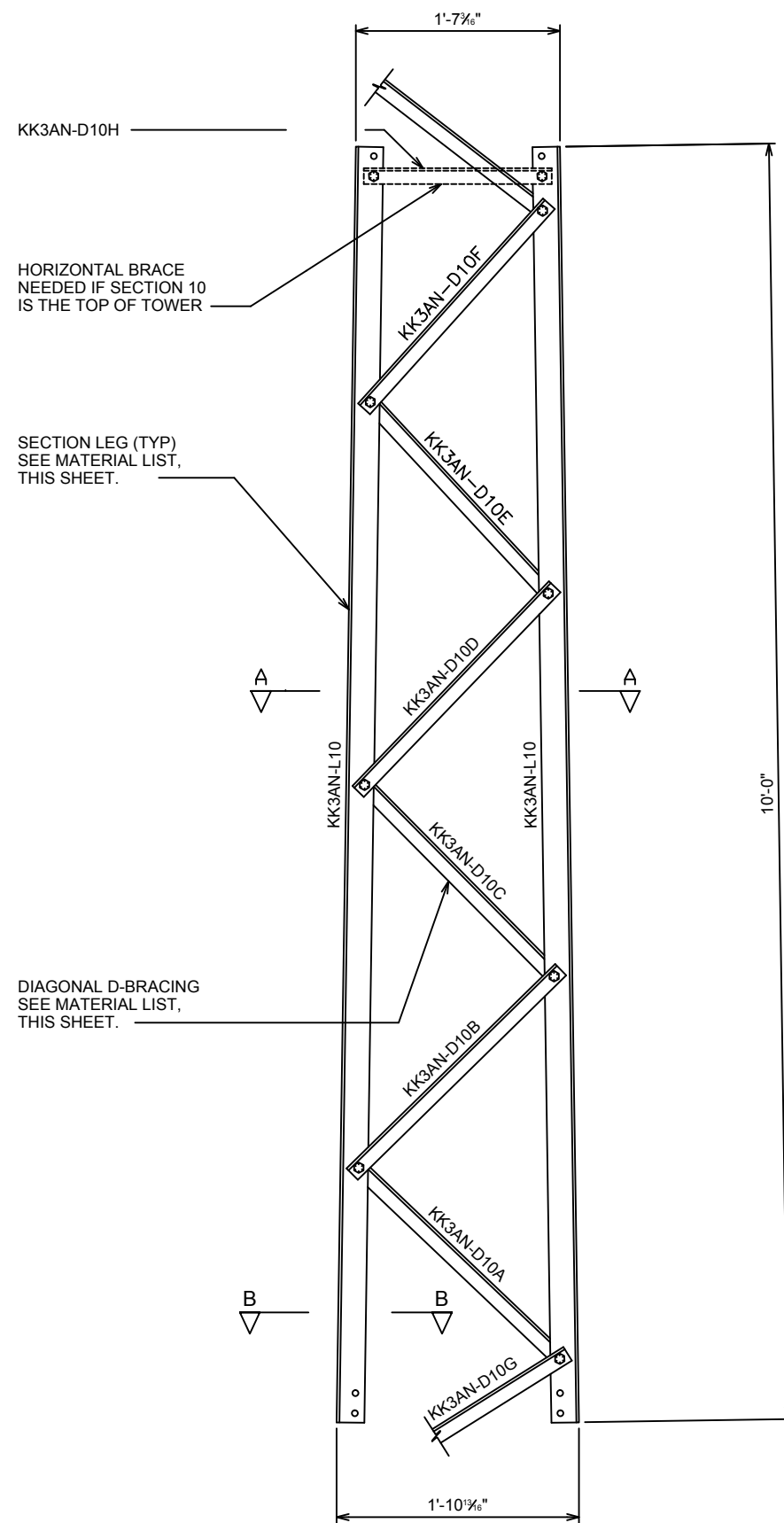
December 2, 2015

MATERIAL LIST

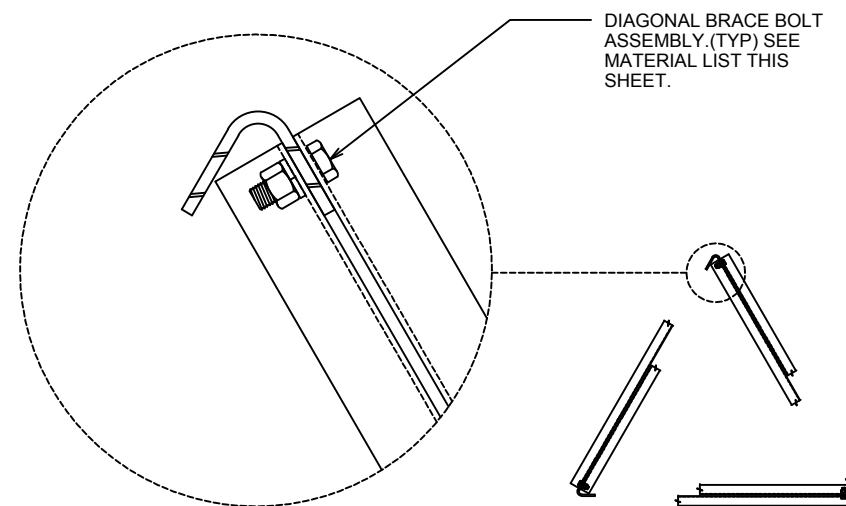
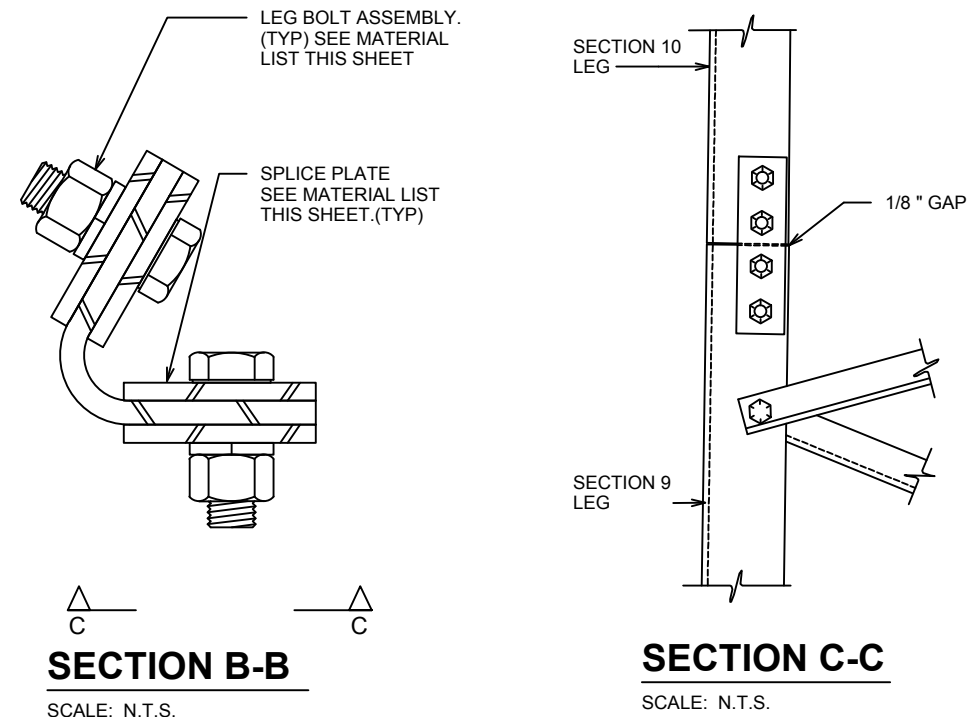
PIECE MARK	QTY.	DESCRIPTION
KK3AN-L10	3	5" x 3/16" x 10'-0"
KK3AN-D10A	3	L 1-1/2" x 1-1/2" x 1/8" x 27-13/16"
KK3AN-D10B	3	L 1-1/2" x 1-1/2" x 1/8" x 27-1/2"
KK3AN-D10C	3	L 1-1/2" x 1-1/2" x 1/8" x 27-1/8"
KK3AN-D10D	3	L 1-1/2" x 1-1/2" x 1/8" x 26-11/16"
KK3AN-D10E	3	L 1-1/2" x 1-1/2" x 1/8" x 26-3/8"
KK3AN-D10F	3	L 1-1/2" x 1-1/2" x 1/8" x 26"
KK3AN-D10G	3	L 1-1/2" x 1-1/2" x 1/8" x 24-3/4"
KK3AN-D10H	3	L 1-1/2" x 1-1/2" x 1/8" x 17-11/16"
BRACE BOLT	21	3/8" Ø x 1" BOLT ASSEMBLY
LEG BOLT	24	1/2" Ø x 1 1/2" BOLT ASSEMBLY
SPLICE PLATE	12	1 3/4" x 3/16" x 0'-7 3/8"

NOTES

- FOR SECTION LOCATION AND ORIENTATION SEE ASSEMBLY KEY.
- LOCKWASHERS TO BE INSTALLED AT ALL BOLTED CONNECTIONS.
- DESIGN AND FABRICATION IN ACCORDANCE WITH THE ANSI/AISC 360-05 STANDARD.
- APPROXIMATE THEORETICAL SECTION WEIGHT BEFORE GALVANIZING = 158#
- BEND RADIUS FOR LEG = 1/2 "
- STEEL GRADES :LEGS ASTM A572 GR. 50
:BRACES ASTM A36
:LEG BOLTS ASTM A325, TYPE X
:BRACE BOLTS SAE GRADE 5
:SPLICE PLATES ASTM A36
- ALL MATERIALS SHALL BE HOT-DIP GALVANIZED PER ASTM A123 AND A153

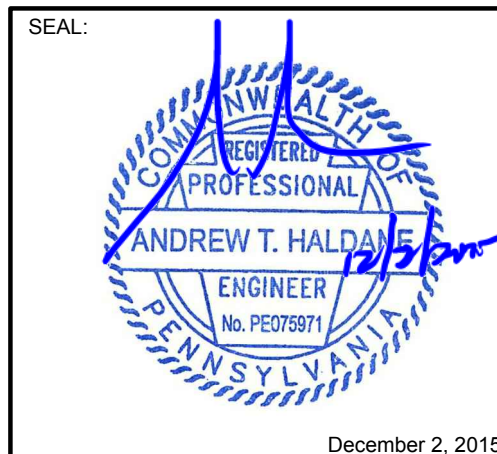


SECTION 10 ELEVATION



SECTION A-A

SCALE: N.T.S.



December 2, 2015

1	12-02-15	REVISED PER CLIENT
0	02-01-05	CONSTRUCTION (TEP# 110001.04)

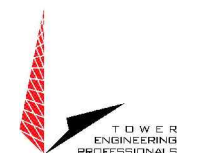
TOWER MANUFACTURER :



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www.anwtowers.com

TOWER DESIGNER :



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www.tepgroup.net

JOB NO.: 64893_40585 DRAWN BY: LSB CHECKED BY: REG

SHEET TITLE :

SECTION 10 ASSEMBLY

SHEET NUMBER :

ANW-S10

REVISION:

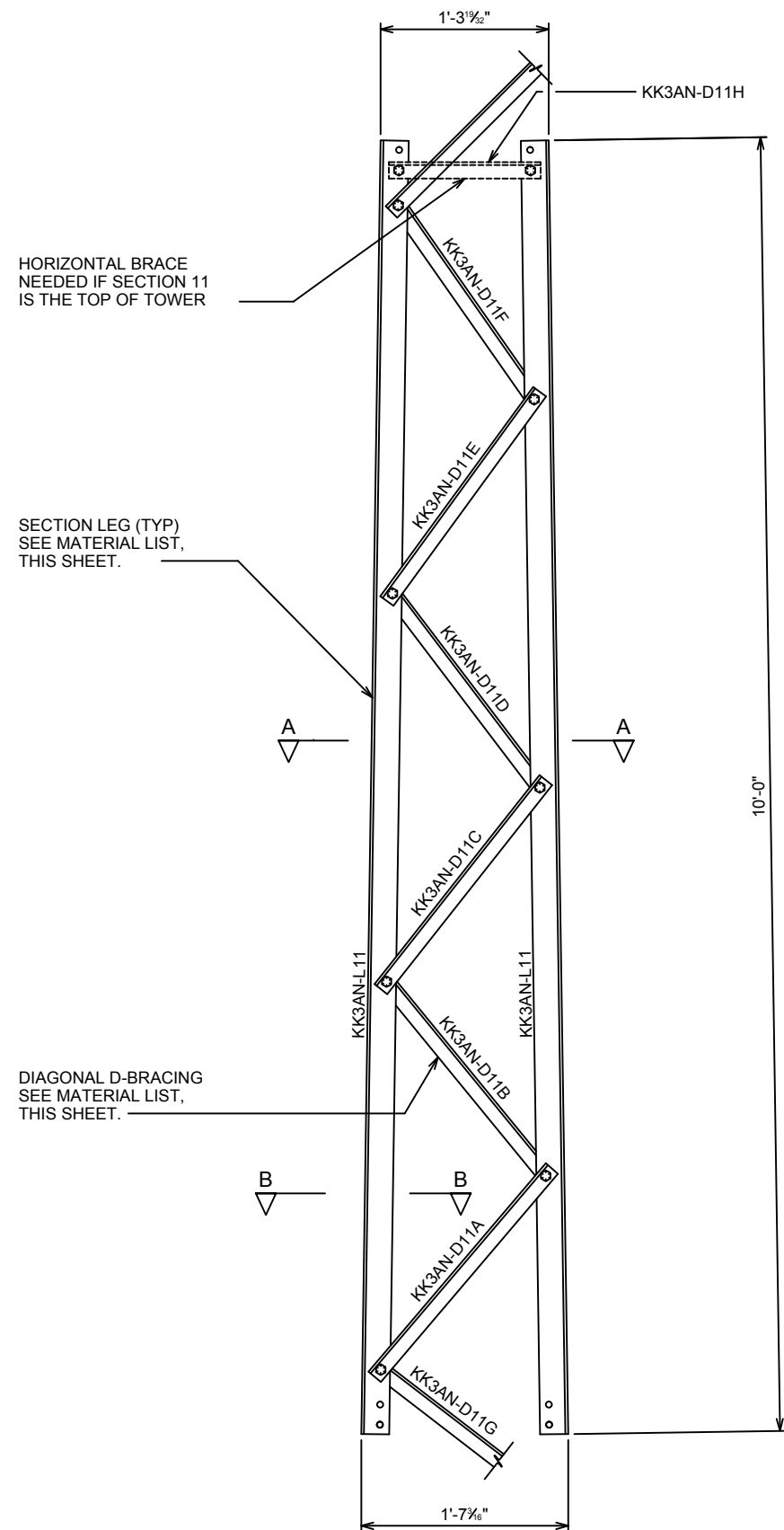
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MATERIAL LIST

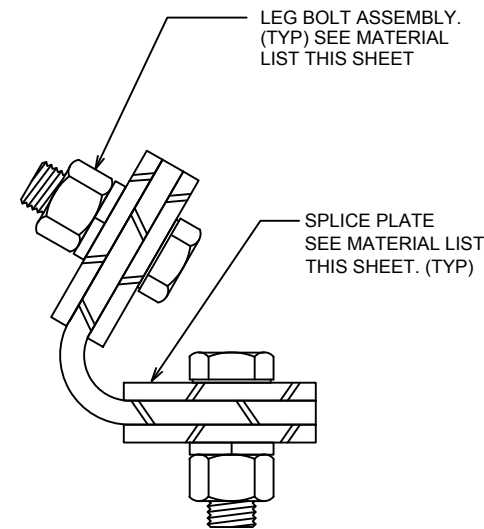
PIECE MARK	QTY.	DESCRIPTION
KK3AN-L11	3	5" x 3/16" x 10'-0"
KK3AN-D11A	3	L 1-1/2" x 1-1/2" x 1/8" x 25-3/8"
KK3AN-D11B	3	L 1-1/2" x 1-1/2" x 1/8" x 25-1/16"
KK3AN-D11C	3	L 1-1/2" x 1-1/2" x 1/8" x 24-3/4"
KK3AN-D11D	3	L 1-1/2" x 1-1/2" x 1/8" x 24-3/8"
KK3AN-D11E	3	L 1-1/2" x 1-1/2" x 1/8" x 24-1/16"
KK3AN-D11F	3	L 1-1/2" x 1-1/2" x 1/8" x 23-3/4"
KK3AN-D11G	3	L 1-1/2" x 1-1/2" x 1/8" x 21-5/8"
KK3AN-D11H	3	L 1-1/2" x 1-1/2" x 1/8" x 14-1/16"
BRACE BOLT	21	3/8" Ø x 1" BOLT ASSEMBLY
LEG BOLT	24	1/2" Ø x 1 1/2" BOLT ASSEMBLY
SPLICE PLATE	12	1 3/4" x 3/16" x 0'-7 3/8"

NOTES

- FOR SECTION LOCATION AND ORIENTATION SEE ASSEMBLY KEY.
- LOCKWASHERS TO BE INSTALLED AT ALL BOLTED CONNECTIONS.
- DESIGN AND FABRICATION IN ACCORDANCE WITH THE ANSI/AISC 360-05 STANDARD.
- APPROXIMATE THEORETICAL SECTION WEIGHT BEFORE GALVANIZING = 152#
- BEND RADIUS FOR LEG = 1/2"
- STEEL GRADES :LEGS ASTM A572 GR. 50
:BRACES ASTM A36
:LEG BOLTS ASTM A325, TYPE X
:BRACE BOLTS SAE GRADE 5
:SPLICE PLATES ASTM A36
- ALL MATERIALS SHALL BE HOT-DIP GALVANIZED PER ASTM A123 AND A153

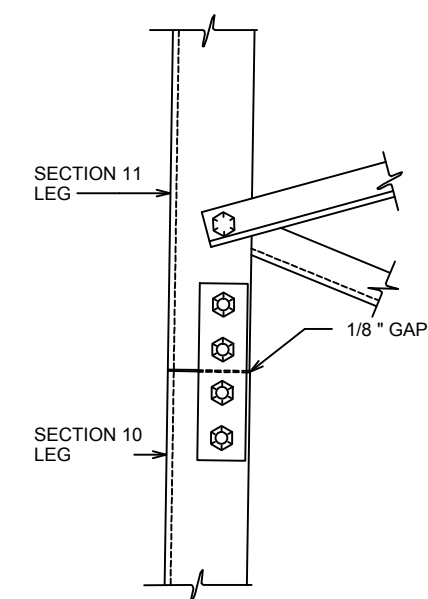


SECTION 11 ELEVATION



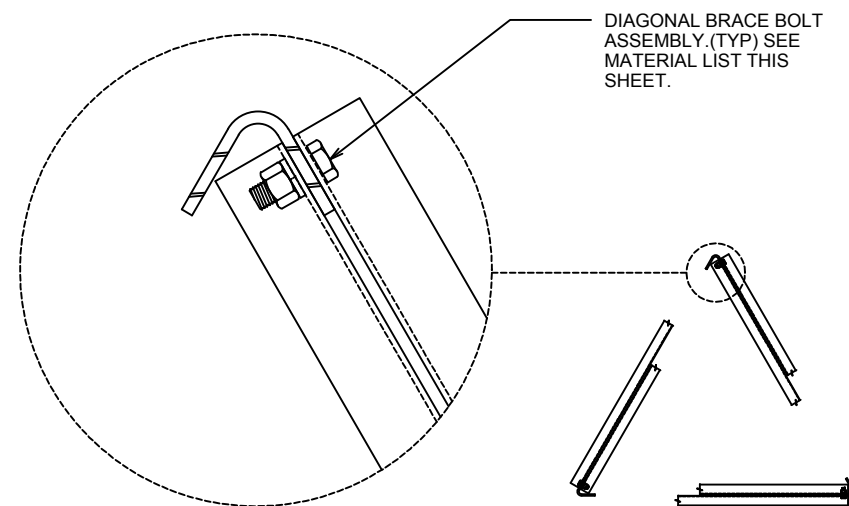
SECTION B-B

SCALE: N.T.S.



SECTION C-C

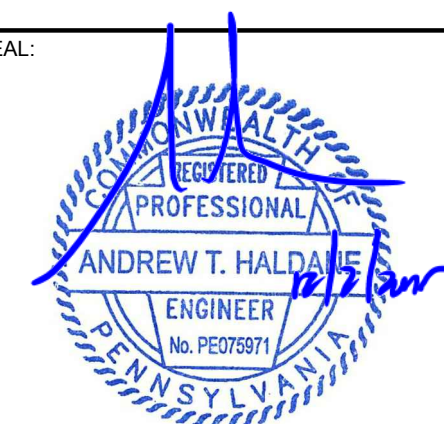
SCALE: N.T.S.



SECTION A-A

SCALE: N.T.S.

SEAL:



December 2, 2015

1	12-02-15	REVISED PER CLIENT
0	02-01-05	CONSTRUCTION (TEP# 110001.04)

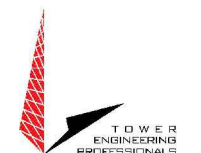
TOWER MANUFACTURER :



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JOB NO.: 64893_40585	DRAWN BY: LSB	CHECKED BY: REG
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SHEET TITLE :

SECTION 11 ASSEMBLY

SHEET NUMBER :

ANW-S11

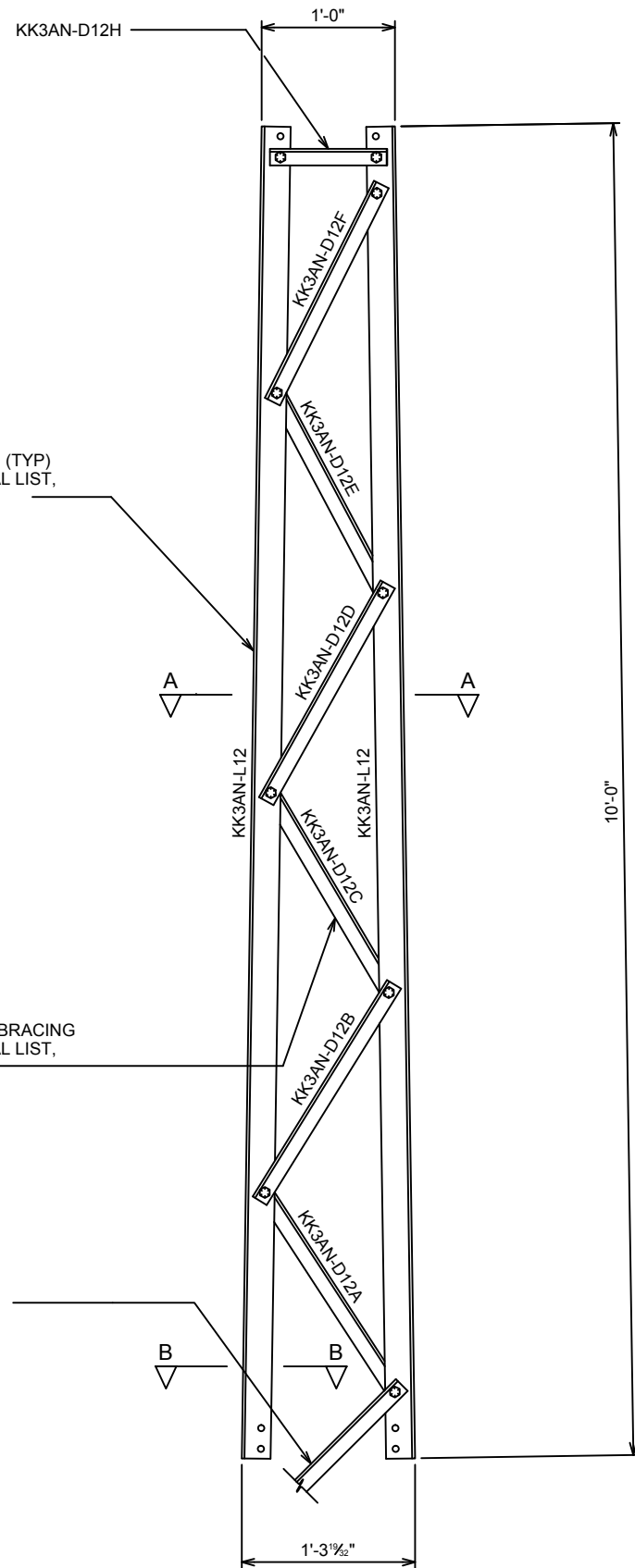
REVISION:

1

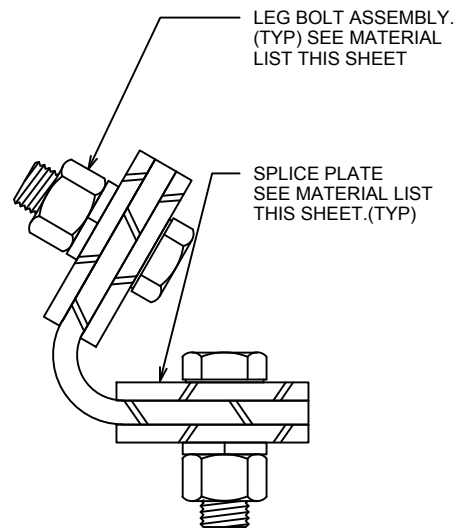
SECTION LEG (TYP)
SEE MATERIAL LIST,
THIS SHEET.

DIAGONAL D-BRACING
SEE MATERIAL LIST,
THIS SHEET.

KK3AN-D12G

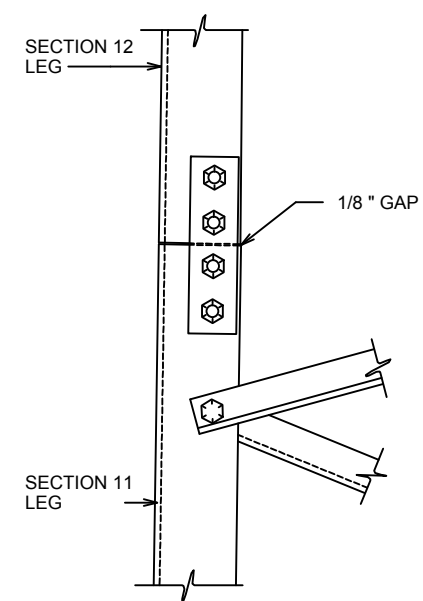


SECTION 12 ELEVATION



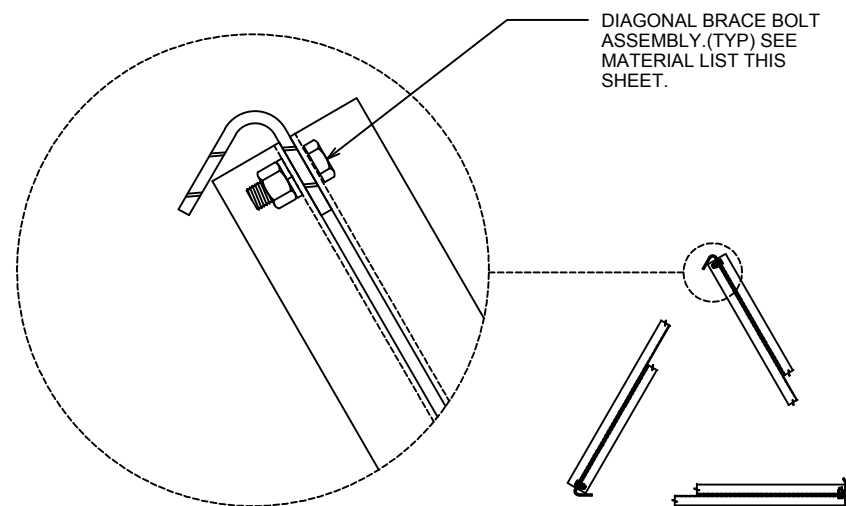
SECTION B-B

SCALE: N.T.S.



SECTION C-C

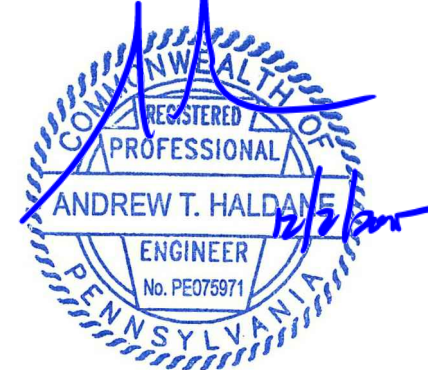
SCALE: N.T.S.



SECTION A-A

SCALE: N.T.S.

SEAL:



December 2, 2015

MATERIAL LIST

PIECE MARK	QTY.	DESCRIPTION
KK3AN-L12	3	5" x 3/16" x 10'-0"
KK3AN-D12A	3	L 1-1/2" x 1-1/2" x 1/8" x 23-3/16"
KK3AN-D12B	3	L 1-1/2" x 1-1/2" x 1/8" x 22-15/16"
KK3AN-D12C	3	L 1-1/2" x 1-1/2" x 1/8" x 22-5/8"
KK3AN-D12D	3	L 1-1/2" x 1-1/2" x 1/8" x 22-3/8"
KK3AN-D12E	3	L 1-1/2" x 1-1/2" x 1/8" x 22-1/8"
KK3AN-D12F	3	L 1-1/2" x 1-1/2" x 1/8" x 21-7/8"
KK3AN-D12G	3	L 1-1/2" x 1-1/2" x 1/8" x 18-7/8"
KK3AN-D12H	3	L 1-1/2" x 1-1/2" x 1/8" x 10-1/2"
BRACE BOLT	24	3/8" Ø x 1" BOLT ASSEMBLY
LEG BOLT	24	1/2" Ø x 1-1/2" BOLT ASSEMBLY
SPLICE PLATE	12	1-3/4" x 3/16" x 0'-7 3/8"

NOTES

- FOR SECTION LOCATION AND ORIENTATION SEE ASSEMBLY KEY.
- LOCKWASHERS TO BE INSTALLED AT ALL BOLTED CONNECTIONS.
- DESIGN AND FABRICATION IN ACCORDANCE WITH THE ANSI/AISC 360-05 STANDARD.
- APPROXIMATE THEORETICAL SECTION WEIGHT BEFORE GALVANIZING = 146#
- BEND RADIUS FOR LEG = 1/2 "
- STEEL GRADES
:LEGS ASTM A572 GR. 50
:BRACES ASTM A36
:LEG BOLTS ASTM A325, TYPE X
:BRACE BOLTS SAE GRADE 5
:SPLICE PLATES ASTM A36
- ALL MATERIALS SHALL BE HOT-DIP GALVANIZED PER ASTM A123 AND A153

1	12-02-15	REVISED PER CLIENT
0	02-01-05	CONSTRUCTION (TEP# 110001.04)

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JOB NO.: 64893_40585 DRAWN BY: LSB CHECKED BY: REG

SHEET TITLE :

SECTION 12 ASSEMBLY

SHEET NUMBER :

ANW-S12

REVISION:

1

Concrete Base Section



Concrete Base Section



Concrete Base Section



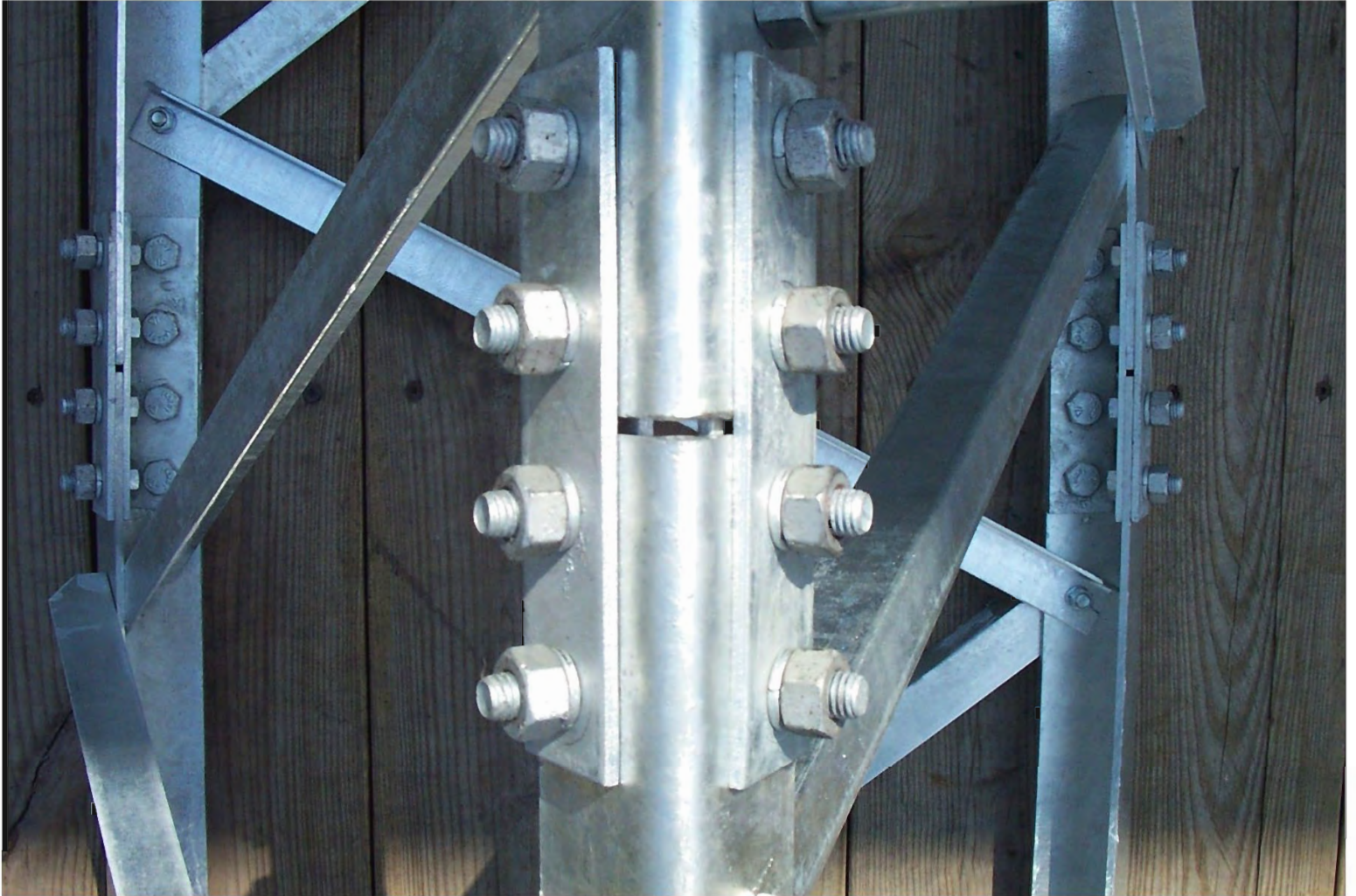
Section Assembly



Section Assembly



Splice Plate Leg Connection



Tower Installation



Tower Installation



Step Bolts



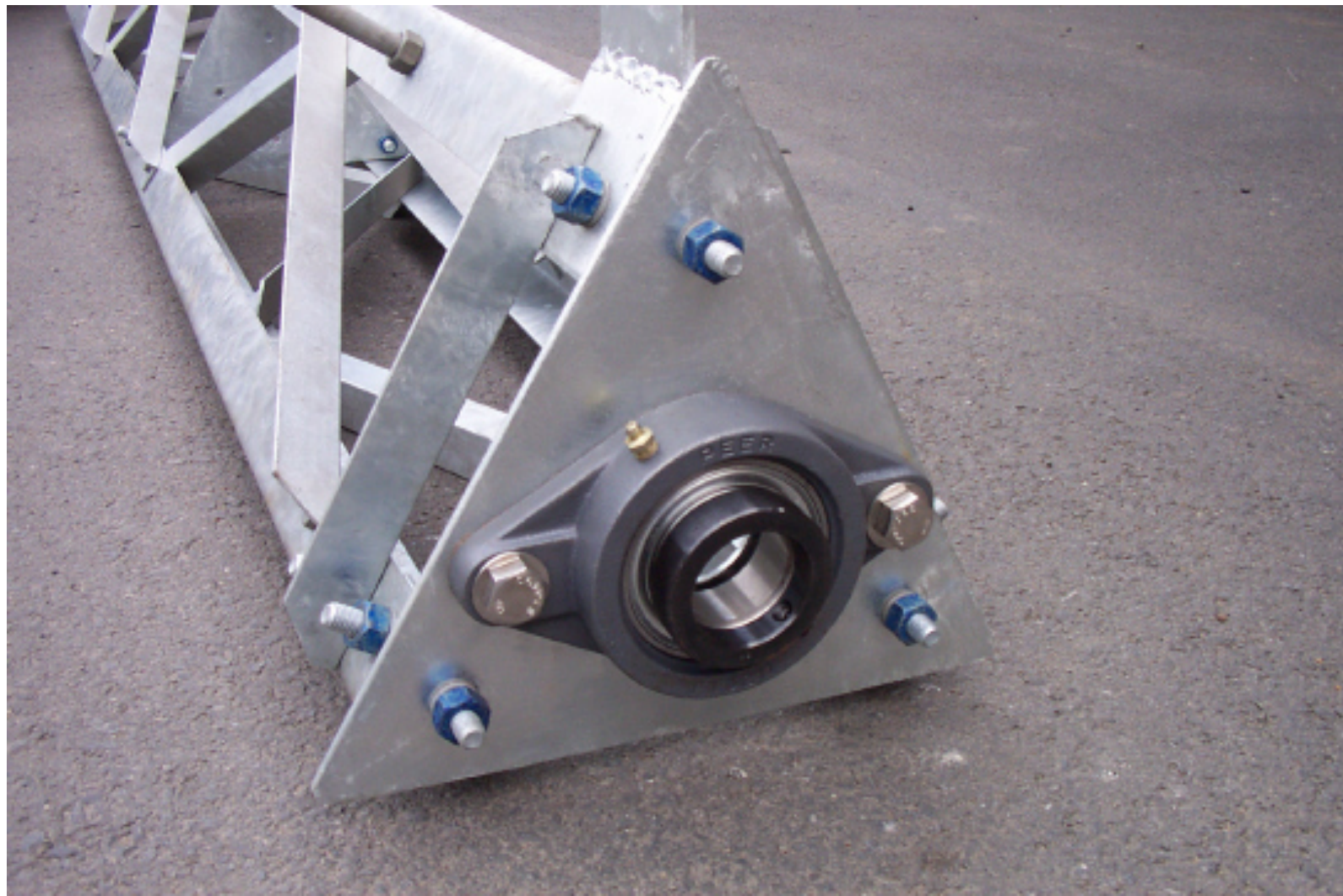
Plate Mounts (3)



Fixed-Mount Mast Plate



Thrust Bearing Plate



Rotator / Thrust Bearing Plates



Rotator / Thrust Bearing Plates



Anti-Climb Panels



Rock / Rooftop Mounts



Tower Grounding Kit

