

25

YEARS

STEALTH

GO UNNOTICED™

3034-A ASHLEY PHOSPHATE RD.

NORTH CHARLESTON, SC 29418

P: (800)-755-0689 / F: (843)-207-0207

WWW.STEALTHCONCEALMENT.COM

PROJECT MANAGER: DANIEL ROBERTS ; (843)-574-9675

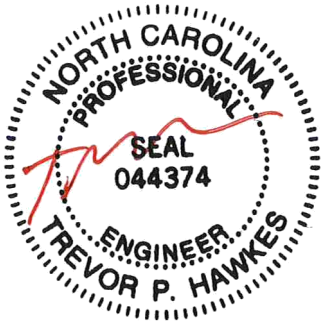
FINAL ENGINEERING

BERKLEY GROUP, LLC.  
BRADLEY MIDDLE SCHOOL  
13345 BEATTIES FORD ROAD  
HUNTERSVILLE, NC 28078

STEALTH JOB #: BG16-00460W-05R3

DRAWING INDEX

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04/06/17

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4/6/17	0

1. THE TYPICAL NOTES SHALL APPLY FOR ALL CASES UNLESS OTHERWISE SPECIFICALLY DETAILED WITHIN THE DRAWINGS. SOME NOTES MAY NOT BE APPLICABLE IN PART OR IN WHOLE FOR EVERY PROJECT.
2. ANY ITEMS REFERENCED AS BEING ON "HOLD" ARE TO BE INCLUDED IN THE WORK AS SHOWN. HOWEVER, CONSTRUCTION OR FABRICATION IS NOT TO BEGIN UNTIL THE "HOLD" REFERENCE IS REMOVED.
3. DIMENSIONS CONTAINED WITHIN MUST BE FIELD VERIFIED AND CUSTOMER APPROVED PRIOR TO FABRICATION OF MATERIALS.
4. THE MODIFICATIONS DEPICTED IN THESE DRAWINGS ARE INTENDED TO PROVIDE STRUCTURAL SUPPORT FOR THE ADDITION OF THE ANTENNA SCREENING SYSTEMS OUTLINED WITHIN. THE EXISTING STRUCTURE OR BUILDING SHALL BE ANALYZED AND RETROFITTED AS REQUIRED, BY OTHERS, TO WITHSTAND THE LOADS IMPOSED BY THE NEW STEALTH® ENCLOSURE SHOWN ON THE DRAWINGS.
5. ANTENNA CONCEALMENT PRODUCTS SHALL BE INSTALLED BY A CONTRACTOR EXPERIENCED IN SIMILAR WORK. CARE SHALL BE TAKEN IN THE INSTALLATION OF ANY AND ALL MEMBERS IN ACCORDANCE WITH RECOGNIZED INDUSTRY STANDARDS AND PROCEDURES. ALL APPLICABLE OSHA SAFETY GUIDELINES ARE TO BE FOLLOWED. STEALTH® IS NOT PROVIDING FIELD INSTALLATION SUPERVISION.
6. THESE DRAWINGS INDICATE THE MAJOR OPERATIONS TO BE PERFORMED, BUT DO NOT SHOW EVERY FIELD CONDITION THAT MAY BE ENCOUNTERED. THEREFORE, PRIOR TO BEGINNING OF WORK THE CONTRACTOR SHOULD SURVEY THE JOB SITE THOROUGHLY TO MINIMIZE FIELD PROBLEMS.
7. PROTECTION OF EXISTING STRUCTURES DURING THE COURSE OF THE CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
8. THE STRUCTURAL INTEGRITY OF THIS STRUCTURE IS DESIGNED TO BE ATTAINED IN ITS COMPLETED STATE. WHILE UNDER CONSTRUCTION ANY TEMPORARY BRACING OR SHORING WHICH MAY BE REQUIRED TO MAINTAIN STABILITY PRIOR TO COMPLETION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
9. THE PLANS AND DETAILS WITHIN DO NOT INCLUDE DETAILS OR DESIGN FOR DRAINAGE FROM OR WATERPROOFING OF EXTERIOR OR INTERIOR SURFACES OF THE EXISTING BUILDING OR STRUCTURE. THESE DETAILS MUST BE COMPLETED BY OTHERS.

1. 18-SIDED MONOPOLE SHAFT STEEL SHALL CONFORM w/ ASTM A572 GR. 65, U.N.O.
2. BASE PLATE STEEL SHALL CONFORM w/ ASTM A572, GR. 50, U.N.O.
3. REINFORCED ACCESS PORT STEEL SHALL CONFORM w/ ASTM A572 GR. 65, U.N.O.
4. ALL STEEL TUBES (SQUARE & RECTANGULAR) SHALL CONFORM w/ ASTM A500 GR. C (50 ksi), U.N.O.
5. ALL OTHER STRUCTURAL STEEL SHAPES & PLATES SHALL CONFORM TO ASTM A36, U.N.O.
6. ALL BOLTS FOR THE STEEL-TO-STEEL CONNECTIONS SHALL CONFORM w/ ASTM F3125 GR. A325, U.N.O.
7. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH THE LATEST VERSION OF THE AMERICAN WELDING SOCIETY (AWS) D1.1. ALL WELDING SHALL BE PERFORMED IN A SHOP APPROVED BY THE BUILDING OFFICIAL. STEEL WELDS SHALL BE BY E70XX LOW HYDROGEN ELECTRODES.
8. ALL STEEL SURFACES SHALL BE THOROUGHLY COATED WITH A ZINC-RICH PRIMER OR EQUIVALENT.
9. ALL BOLTED CONNECTIONS SHALL BE TIGHTENED PER THE "TURN-OF-NUT" METHOD AS DEFINED BY AISI

1. ALL STRUCTURAL COMPONENTS TO BE CONNECTED TOGETHER SHALL BE COMPLETELY FIT UP ON THE GROUND OR OTHERWISE VERIFIED FOR COMPATIBILITY PRIOR TO LIFTING ANY COMPONENT INTO PLACE. REPAIRS REQUIRED DUE TO FIT-UP OR CONNECTION COMPATIBILITY PROBLEMS AFTER PARTIAL ERECTION ARE THE FINANCIAL RESPONSIBILITY OF THE CONTRACTOR.

1. FASTENER HOLES IN STEALTHSKIN® FOAM COMPOSITE PANELS ARE NOT FACTORY DRILLED AND MUST BE DRILLED IN THE FIELD.
2. PANEL FASTENERS TO BE SPACED 12" O.C. MAX. AND LOCATED 6" MAX. HORIZONTALLY FROM EACH EDGE AT TOP AND BOTTOM OF PANEL. MAINTAIN 1 ½" MIN. EDGE DISTANCE FROM ALL EDGES.
3. 4' WIDE PANELS REQUIRE (4) FASTENERS TOP AND BOTTOM. 5' WIDE PANELS REQUIRE (5) FASTENERS TOP AND BOTTOM.
4. WHEN FASTENER BOLT HEAD OR NUT BEARS DIRECTLY ON SURFACE OF STEALTHSKIN® PANEL, TIGHTEN PANEL BOLTS ONLY ½ TURN PAST SNUG. APPLY THREAD LOCK COMPOUND TO THE THREADS OF METAL BOLTS. USE THIN BEAD OF EPOXY TO LOCK THE NUTS OF FRP BOLTS AND STEALTH® STAINLESS STEEL PANEL BOLTS. USE WASHER OR FLANGED HEAD BOLT, OR FASTENER WITH LARGE BEARING SURFACE.
5. PANELS WILL EXPAND AND CONTRACT DUE TO TEMPERATURE. WHEN INSTALLING PANELS IN COLD TEMPERATURES, EVENLY SPACE PANELS ALONG LENGTH OF SCREEN WALL WITH EQUAL GAPS BETWEEN PANELS TO ALLOW FOR EXPANSION DURING WARM TEMPERATURES.
6. ADJACENT FLAT PANELS ARE JOINED BY A VERTICAL FOAM SPLINE THAT IS INSERTED INTO GROOVES CUT INTO THE SIDE OF EACH PANEL. DO NOT LIFT PANELS BY GROOVES. PANELS MUST BE LIFTED WITH FORCE DIRECTED ONTO PANEL SURFACE.
7. ADJACENT RADIUS PANELS ARE JOINED BY A VERTICAL H-CHANNEL. INSERT PANELS INTO EACH SIDE OF H-CHANNEL.
8. RADIUS PANELS MUST BE EVENLY SPACED ALONG RADIUS SUPPORT. CONTRACTOR TO MEASURE LENGTH OF RADIUS SUPPORT AND DIVIDE BY THE NUMBER OF RADIUS PANELS TO DETERMINE PROPER SPACING. H-CHANNEL CONNECTORS ARE USED TO COVER THE GAP BETWEEN PANELS AND TO ALLOW FOR PANEL EXPANSION AND CONTRACTION.
9. SURFACES OF PANELS SHALL BE COATED WITH SUITABLE PAINT FOR UV PROTECTION. TOP EDGE OF PANEL MUST BE COVERED TO PREVENT WATER TRAVEL BETWEEN PANELS. USE SHERWIN WILLIAMS "COROTHANE II" OR PRE APPROVED EQUIVALENT.
10. EXPOSED TOP AND SIDE FOAM EDGES OF PANELS MUST BE COVERED OR COATED FOR UV PROTECTION. STEALTH® WILL PROVIDE PANEL EDGE CAPS TO BE FIELD APPLIED FOR THIS PURPOSE FOR MOST APPLICATIONS. PANEL EDGE CAPS TO BE SECURED WITH TEK SCREW INSTALLED @ 12" MAXIMUM SPACING ON THE INSIDE FACE OF THE PANEL.

STRUCTURAL DESIGN IS BASED ON THE 2012 NORTH CAROLINA BUILDING CODE (2009 IBC) & THE ASCE 7-05 STANDARD.

WIND:  
BASIC WIND SPEED: 90 MPH (3-SEC GUST) PER TIA-222-G STANDARD  
IMPORTANCE FACTOR: 1.00  
STRUCTURE CLASS / OCCUPANCY CATEGORY: II  
EXPOSURE: C  
TOPOGRAPHIC CATEGORY: 1  
CREST HEIGHT: 0 FT

ESTIMATED WEIGHT (INCLUDING ANTENNAS AND EQUIPMENT):  
47.8 k (1.0 DEAD)

THE REACTIONS V & M LISTED ABOVE SHALL BE CONSIDERED TO ACT IN ANY HORIZONTAL DIRECTION.

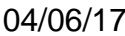
1. ENGINEERING AND DESIGN CALCULATIONS FOR STEALTH® POLE AND TOWER PRODUCTS ARE PREPARED IN ACCORDANCE WITH THE LATEST VERSION OF THE TIA/EIA-222. OTHER STRUCTURES ARE DESIGNED IN ACCORDANCE WITH APPLICABLE LOCAL OR NATIONAL STANDARDS AND PER CLIENT INPUT.

5. STEEL FABRICATION AND INSTALLATION SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL AND SPECIFICATIONS.
6. STEEL I-SHAPE, ANGLE, CHANNEL, AND MISCELLANEOUS MEMBERS SHALL CONFORM TO ASTM A36 (36 KSI MIN. YIELD STRENGTH) STEEL SPECIFICATIONS, U.N.O.
7. STEEL PLATE MEMBERS SHALL CONFORM TO ASTM A36 (36 KSI MIN. YIELD STRENGTH) STEEL SPECIFICATIONS U.N.O.
8. STEEL PIPE AND ROUND TUBE MEMBERS SHALL CONFORM TO ASTM A500 GRADE B (42 KSI MIN. YIELD STRENGTH) STEEL SPECIFICATIONS, U.N.O.
9. STEEL RECTANGULAR AND SQUARE TUBE MEMBERS SHALL CONFORM TO ASTM A500 GRADE B (46 KSI MIN. YIELD STRENGTH) STEEL SPECIFICATIONS, U.N.O.
10. STEEL WIDEFLANGE MEMBERS SHALL CONFORM TO ASTM A992 (50 KSI MIN, YIELD STRENGTH) STEEL SPECIFICATIONS U.N.O.
11. BOLTS SHALL BE DOMESTIC, NEW HIGH STRENGTH GALVANIZED BOLTS, BEARING TYPE "X" (THREADS EXCLUDED), U.N.O., AND SHALL CONFORM TO ASTM A325 SPECIFICATIONS, U.N.O.
12. STRUCTURAL BOLTS SHALL BE TIGHTENED USING TURN-OF-THE-NUT METHOD.
13. BOLT HOLE EDGE DISTANCES SHALL BE A MINIMUM 1", U.N.O.
14. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS AND PROCEDURES OF THE AMERICAN WELDING SOCIETY (AWS) BY CERTIFIED WELDERS PER AWS D1.1 FOR STEEL AND AWS D1.2 FOR ALUMINUM. STEEL WELDS SHALL BE BY E70XX, LOW HYDROGEN ELECTRODE.
15. STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A123 SPECIFICATIONS AFTER FABRICATION OR PAINTED WITH RUST INHIBITIVE PRIMER.
16. STEEL HARDWARE SHALL BE HOT DIP GALVANIZED PER ASTM A153, U.N.O.
17. AFTER ANY FIELD HOLE PUNCHING / DRILLING OR CUTTING HAS BEEN COMPLETED, OR FOR ANY DAMAGED STRUCTURAL MEMBER, TOUCH UP ALL BARE MATERIAL AND WELDED AREAS WITH TWO COATS OF GAL-CON OR SIMILAR MATERIAL TO RESTORE THE GALVANIZED PROTECTION ON THE MEMBERS.
18. ALL WELDED STEEL ASSEMBLIES AND INDIVIDUAL STEEL PARTS SHOULD HAVE THE PART NUMBER WELDED ONTO THE PART OR ASSEMBLY. THE PART NUMBERS SHOULD BE LOCATED CONSISTENTLY AND AWAY FROM ANY CONNECTION POINT TO AVOID ANY INTERFERENCE ISSUES WITH THE WELD.

1. STEEL FABRICATION SHALL BE DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED AS REQUIRED BY THE BUILDING CODE TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION.
2. NO FIELD WELDING SHALL BE PERMITTED.
3. THE FOLLOWING SPECIAL INSPECTIONS (WHERE APPLICABLE) SHALL BE REQUIRED PER CHAPTER 17 OF THE BUILDING CODE.
  - PERIODIC SPECIAL INSPECTION OF HIGH-STRENGTH BOLTING
  - CONTINUOUS SPECIAL INSPECTION OF DRILLING OPERATIONS FOR PIER FOUNDATIONS
  - CONTINUOUS SPECIAL INSPECTION TO VERIFY LOCATION, PLUMBNESS, DIAMETER, AND LENGTH OF DRILLED PIER FOUNDATIONS
  - PERIODIC SPECIAL INSPECTION TO VERIFY ADEQUATE SOIL BELOW GRADE
  - CONTINUOUS SPECIAL INSPECTION OF ANCHOR BOLTS PRIOR TO AND DURING CONCRETE PLACEMENT
4. SPECIAL INSPECTION IS NOT REQUIRED FOR WORK OF A MINOR NATURE OR AS WARRANTED BY CONDITIONS IN THE JURISDICTION AS APPROVED BY THE BUILDING OFFICIAL. THUS, SPECIAL INSPECTION ITEMS ABOVE MAY BE WAIVED AS DEEMED APPROPRIATE BY THE BUILDING OFFICIAL.
5. NO STRUCTURAL OBSERVATION IS REQUIRED.



**PROPRIETARY INFORMATION**  
THE INFORMATION CONTAINED WITHIN THIS  
DRAWING SET IS PROPRIETARY & CONFIDENTIAL  
BY NATURE. ANY USE OR DISCLOSURE OTHER  
THAN THAT WHICH RELATES TO  
STEALTH® CONCEALMENT SOLUTIONS, INC  
IS STRICTLY PROHIBITED.



NOTES & SPECIFICATIONS

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**BERKLEY GROUP, LLC.**  
SITE: BRADLEY MIDDLE SCHOOL

13345 BEATTIES FORD ROAD  
HUNTERSVILLE, NC

**BERKLEY GROUP, LLC.**  
SITE: BRADLEY MIDDLE SCHOOL

13345 BEATTIES FORD ROAD  
HUNTERSVILLE, NC

DRAWN: WAM-VSE

DESIGNED: TAJ-VSE

REVISÉD:

# N1

4/6/17

## REVISION

0

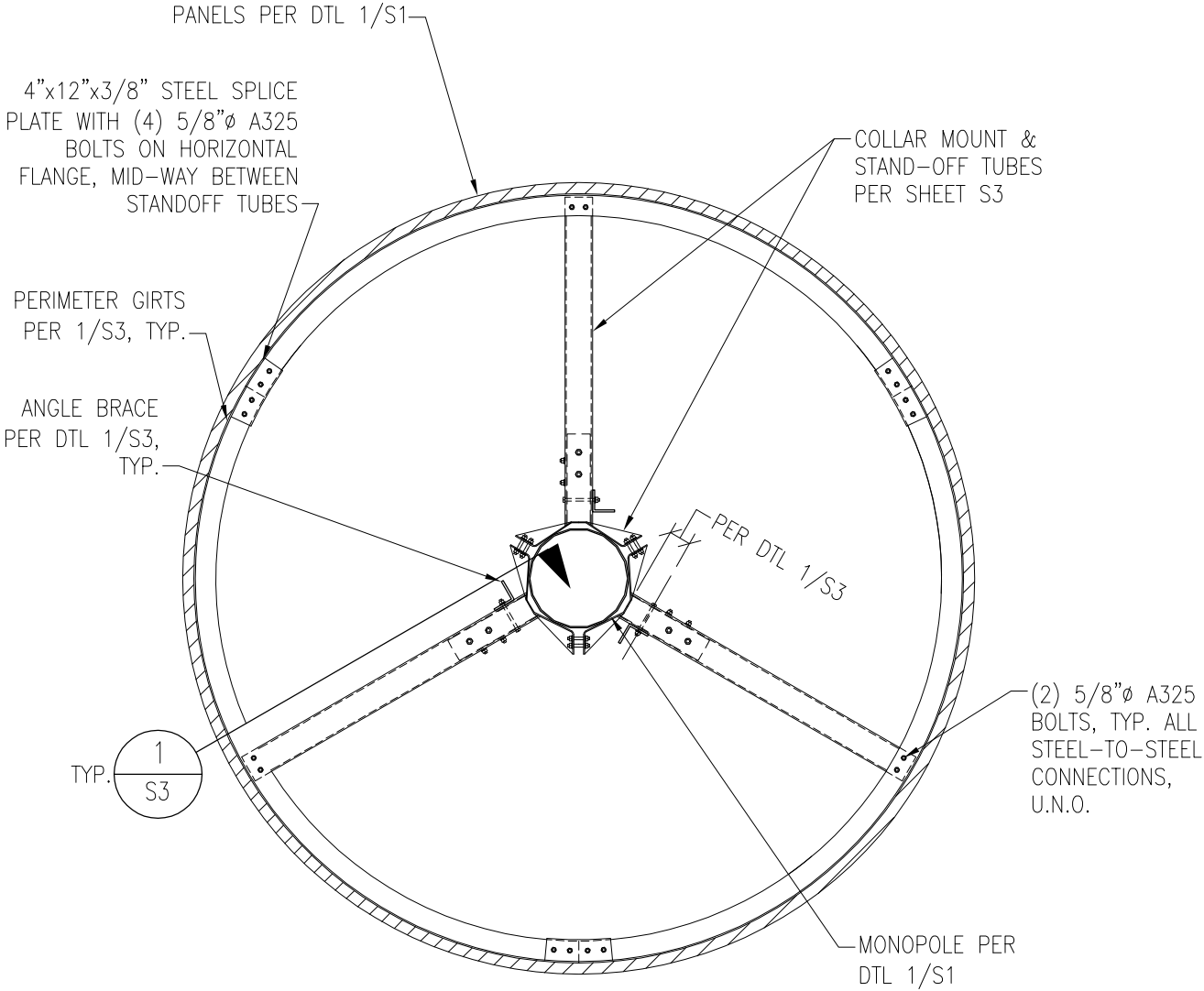








NOTE: ANTENNAS & MOUNT  
NOT SHOWN FOR CLARITY

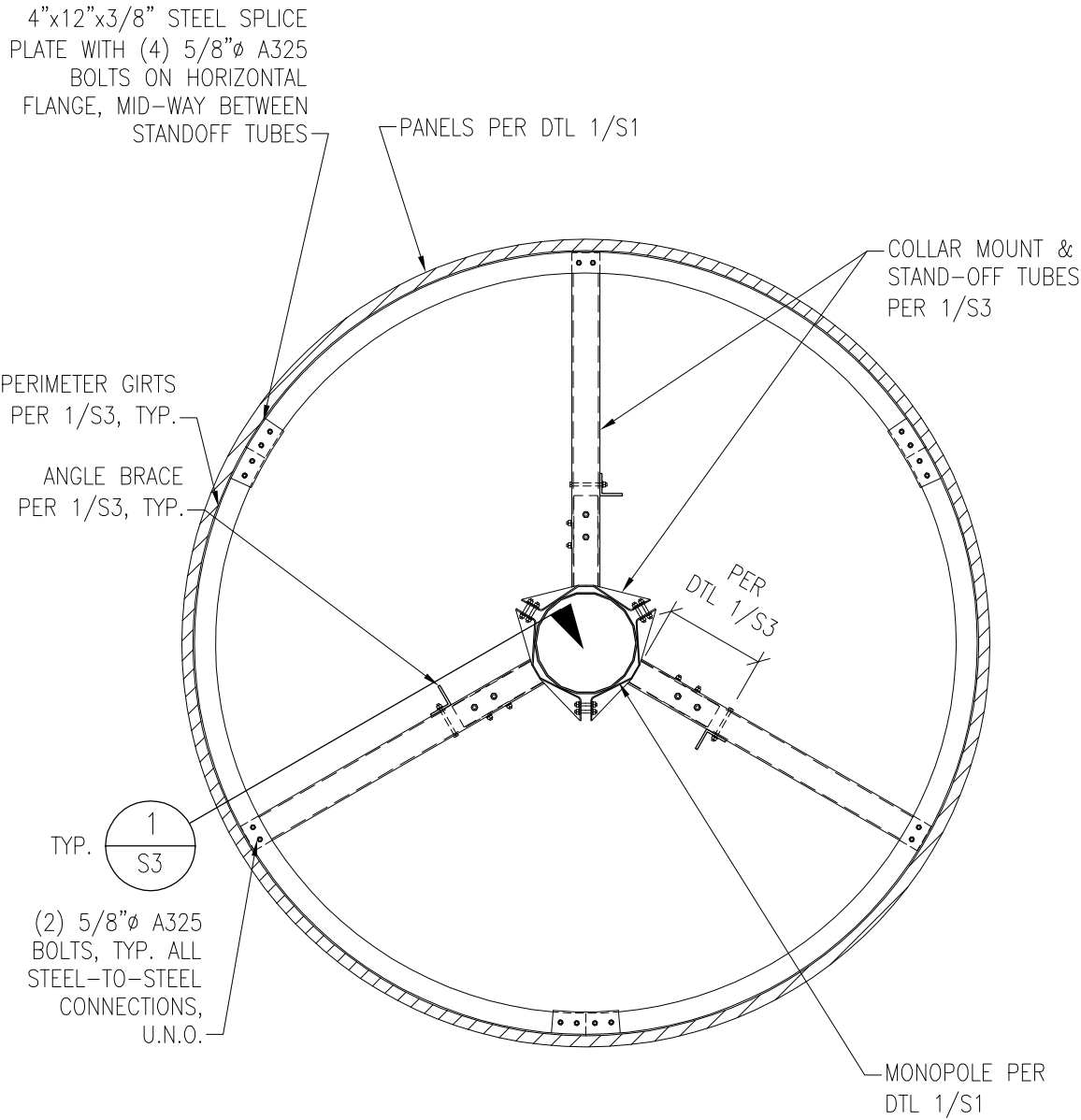


PLATFORM CONCEALMENT TOP PLAN VIEW

N.T.S.

2

NOTE: ANTENNAS & MOUNT  
NOT SHOWN FOR CLARITY



PLATFORM CONCEALMENT BOTTOM PLAN VIEW

N.T.S.

1



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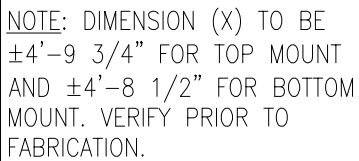
DRAWING NOT TO SCALE. UNLESS SPECIFIED  
OTHERWISE DIMENSIONS SHOWN ARE IN INCHES  
TOLERANCES  
DECIMALS  
X ± 1/16"  
.XXX ± 0.01"  
ANGULAR  
X ± 0.5°

PLAN VIEWS

**BERKLEY GROUP, LLC.**  
SITE: BRADLEY MIDDLE SCHOOL  
13345 BEATTIES FORD ROAD  
HUNTERSVILLE, NC

JOB #:	BG16-00460W-05R3
DRAWN:	WAM-VSE
DESIGNED:	TAJ-VSE
REVISED:	
<b>S2</b>	REVISION
4/6/17	<b>0</b>





NOTE: VALMONT TO CONFIRM  
THE ADEQUACY OF VALMONT  
PART #LRWM FOR THE GIVEN  
LOADING APPLICATION



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OTHERWISE DIMENSIONS SHOWN ARE IN INCHES

TOLERANCES	
DECIMALS	ANGULAR
X $\pm 1/16"$	X $\pm 0.5^\circ$
.XXX $\pm 0.01"$	

## DETAILS

**BERKLEY GROUP, LLC.**  
SITE: BRADLEY MIDDLE SCHOOL

13345 BEATTIES FORD ROAD  
HUNTERSVILLE, NC

JOB #: BG16-00460W-05R3

DRAWN: WAM-VSE

DESIGNED: TAJ-VSE

REVISÉD:

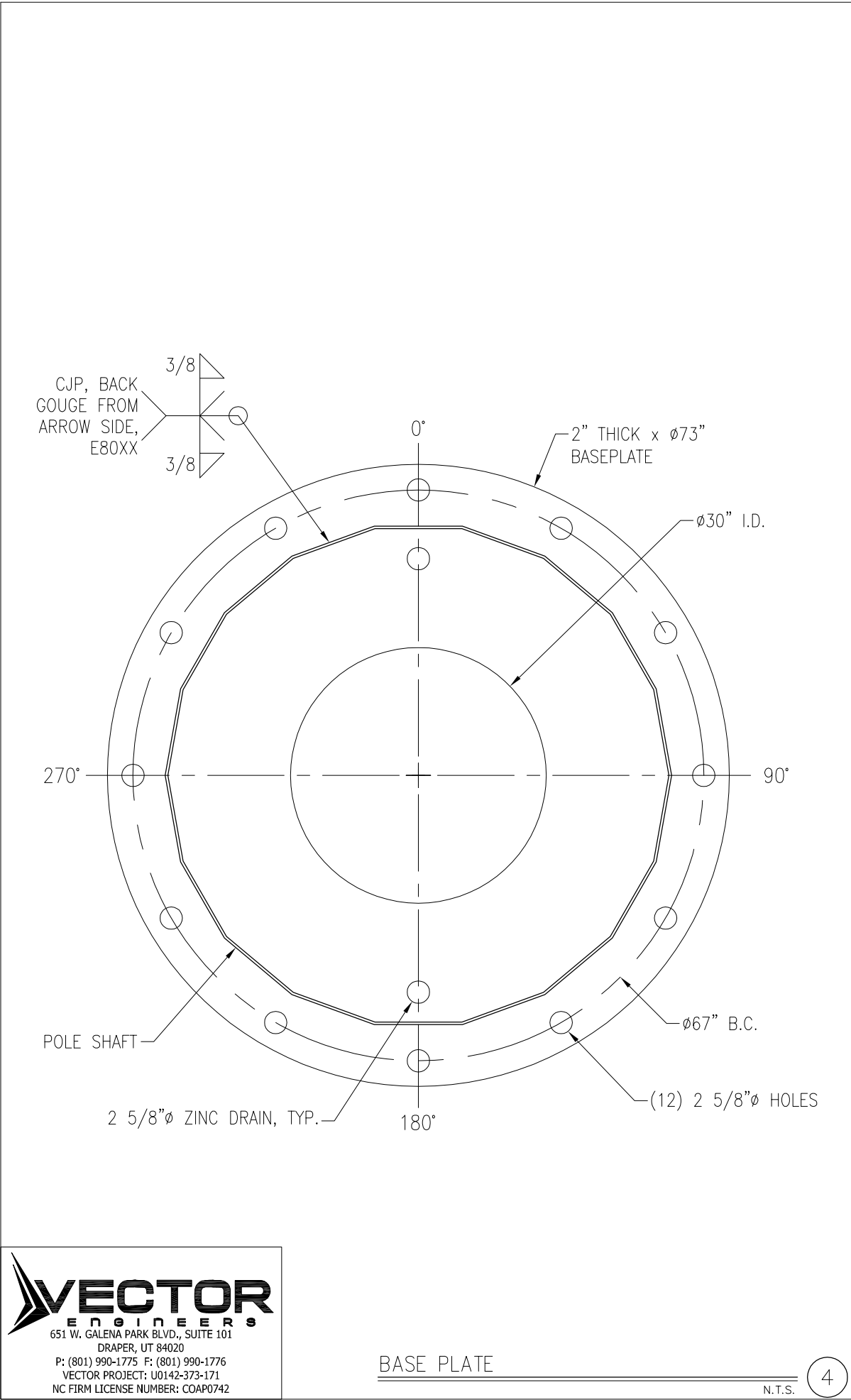
S3

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## REVISION

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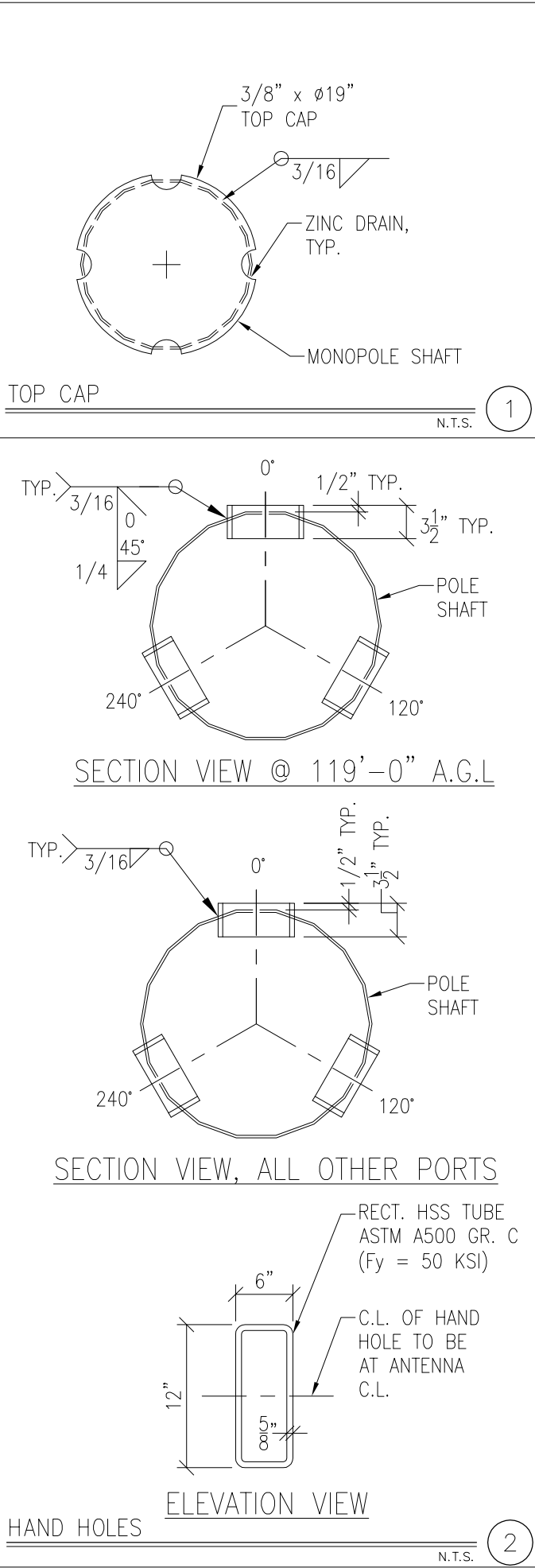
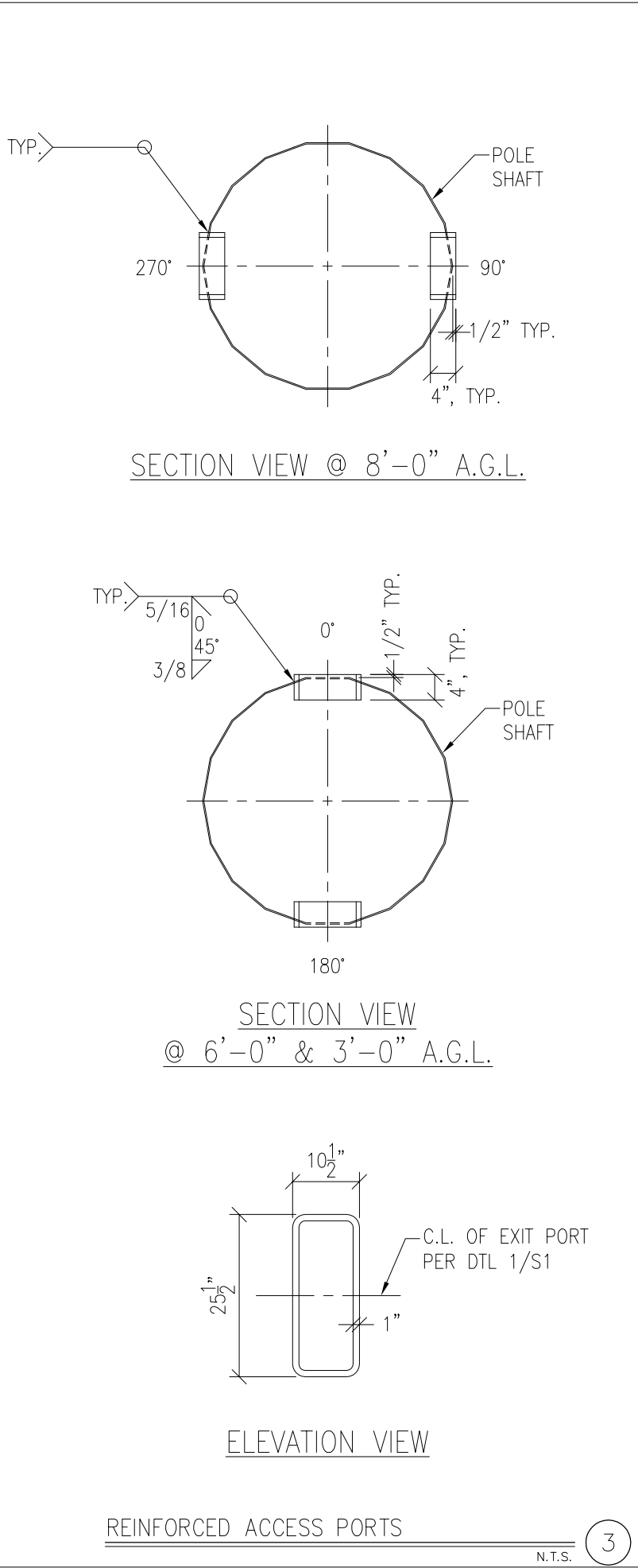


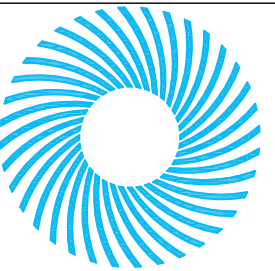


**VECTOR**  
ENGINEERS

651 W. GALENA PARK BLVD., SUITE 101  
DRAPER, UT 84020


P: (801) 990-1775 F: (801) 990-1776  
VECTOR PROJECT: U0142-373-171  
NC FIRM LICENSE NUMBER: COAP0742



  
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NORTH CAROLINA  
PROFESSIONAL  
SEAL  
044374  
ENGINEER  
TREVOR P. HAWKES

04/06/17

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TOLERANCES	
DECIMALS	ANGULAR
X ± 1/16"	X ± 0.5°
.XXX ± 0.01"	

**DETAILS**

**BERKLEY GROUP, LLC.**  
SITE: BRADLEY MIDDLE SCHOOL  
13345 BEATTIES FORD ROAD  
HUNTERSVILLE, NC

JOB #: BG16-00460W-05R3  
DRAWN: WAM-VSE  
DESIGNED: TAJ-VSE  
REVISED:

**S4**

4/6/17

REVISION  
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FOUNDATION NOTES:

1. FOUNDATION DESIGN IS BASED ON THE FOLLOWING GEOTECHNICAL REPORT:

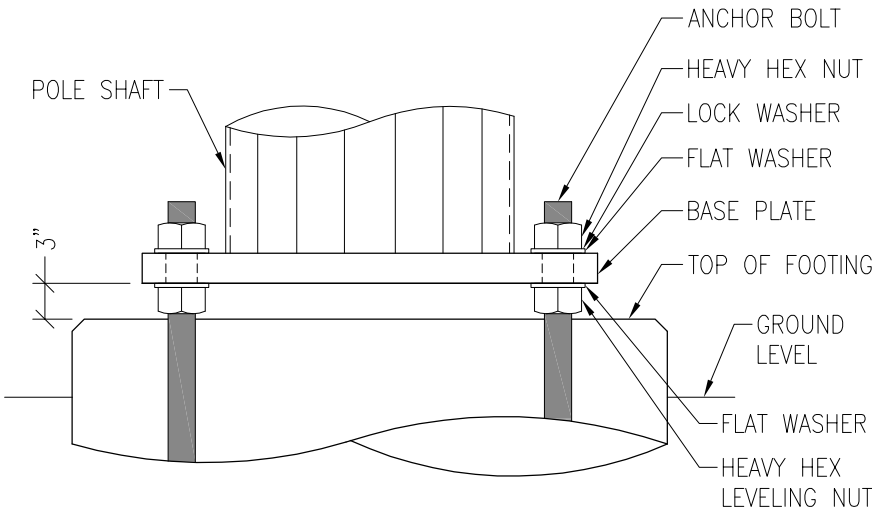
S&ME  
REPORT: 1426-16-044  
DATE: MARCH 31, 2016

2. ALL CONCRETE SHALL USE TYPE II PORTLAND CEMENT AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS. CONCRETE SHALL HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.50. CONCRETE SHALL HAVE A SLUMP OF 5" (±1") OR AS SPECIFIED BY THE GEOTECHNICAL ENGINEER. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH "THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," ACI 318-11. FOUNDATION INSTALLATION SHALL BE IN ACCORDANCE WITH ACI 336, "STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF DRILLED PIERS," LATEST EDITION.

3. REINFORCING STEEL SHALL CONFORM WITH THE REQUIREMENTS OF ASTM A-615, GRADE 60. ALL REINFORCING DETAILS SHALL CONFORM TO "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315, LATEST EDITION, UNLESS DETAILED OTHERWISE ON THIS DRAWING.

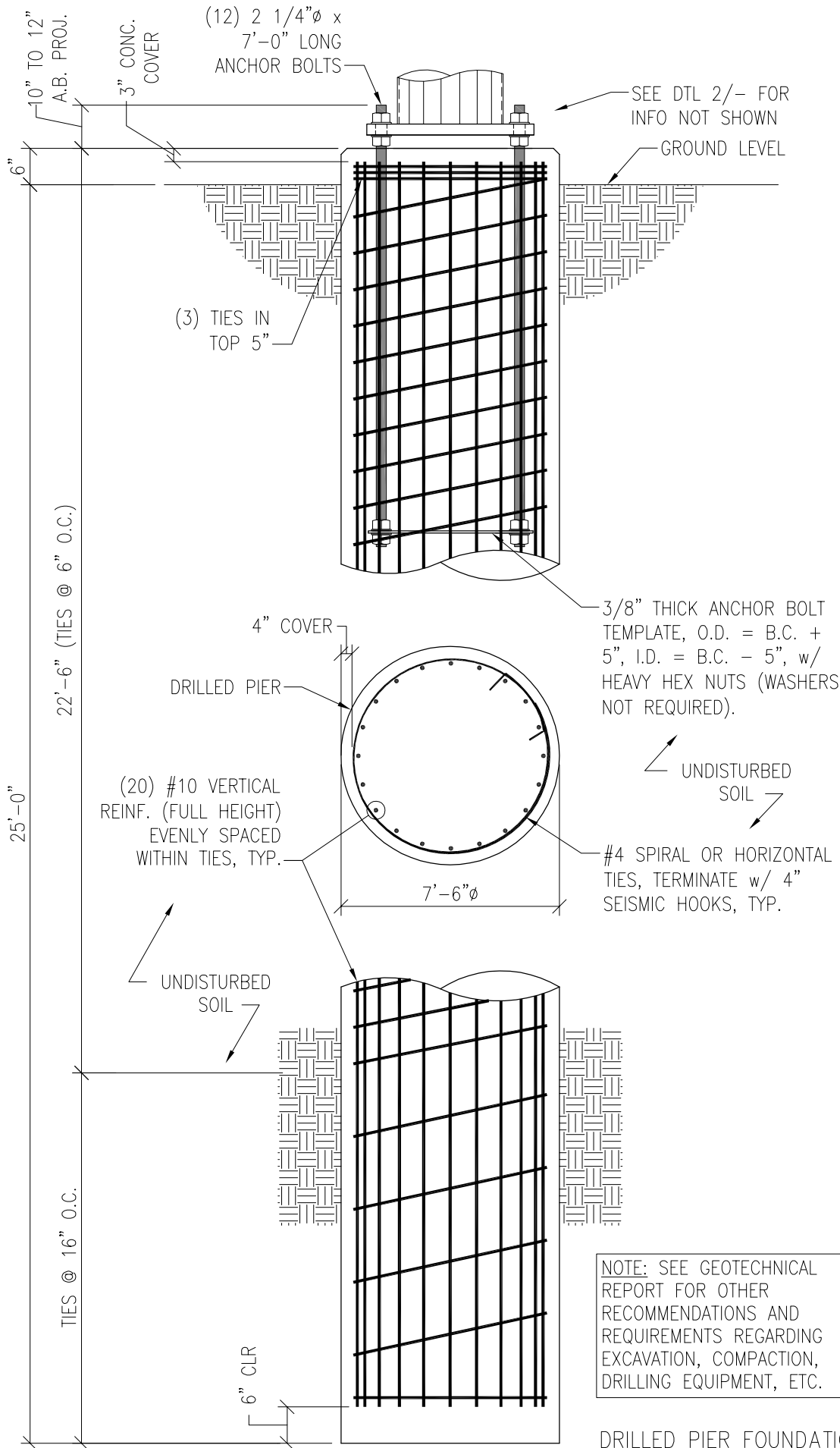
4. INSTALLATION OF DRILLED PIERS MUST BE OBSERVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER FIRM. GEOTECHNICAL ENGINEER TO PROVIDE A NOTICE OF INSPECTION FOR THE BUILDING INSPECTOR FOR REVIEW AND RECORD PURPOSES.

5. ALL ANCHOR BOLTS SHALL CONFORM w/ ASTM A615 GR. 75, GALVANIZED, U.N.O.



N.T.S.

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NOTE: SEE GEOTECHNICAL  
REPORT FOR OTHER  
RECOMMENDATIONS AND  
REQUIREMENTS REGARDING  
EXCAVATION, COMPACTION,  
DRILLING EQUIPMENT, ETC.

DRILLED PIER FOUNDATION

N.T.S.

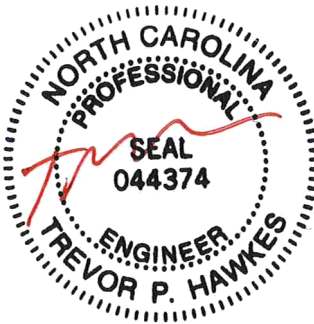
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TOLERANCES  
DECIMALS  
X ± 1/16"  
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ANGULAR  
X ± 0.5°

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JOB #: BG16-00460W-05R3  
DRAWN: WAM-VSE  
DESIGNED: TAJ-VSE  
REVISED:

**S5**

4/6/17

REVISION

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VECTOR

ENGINEERS

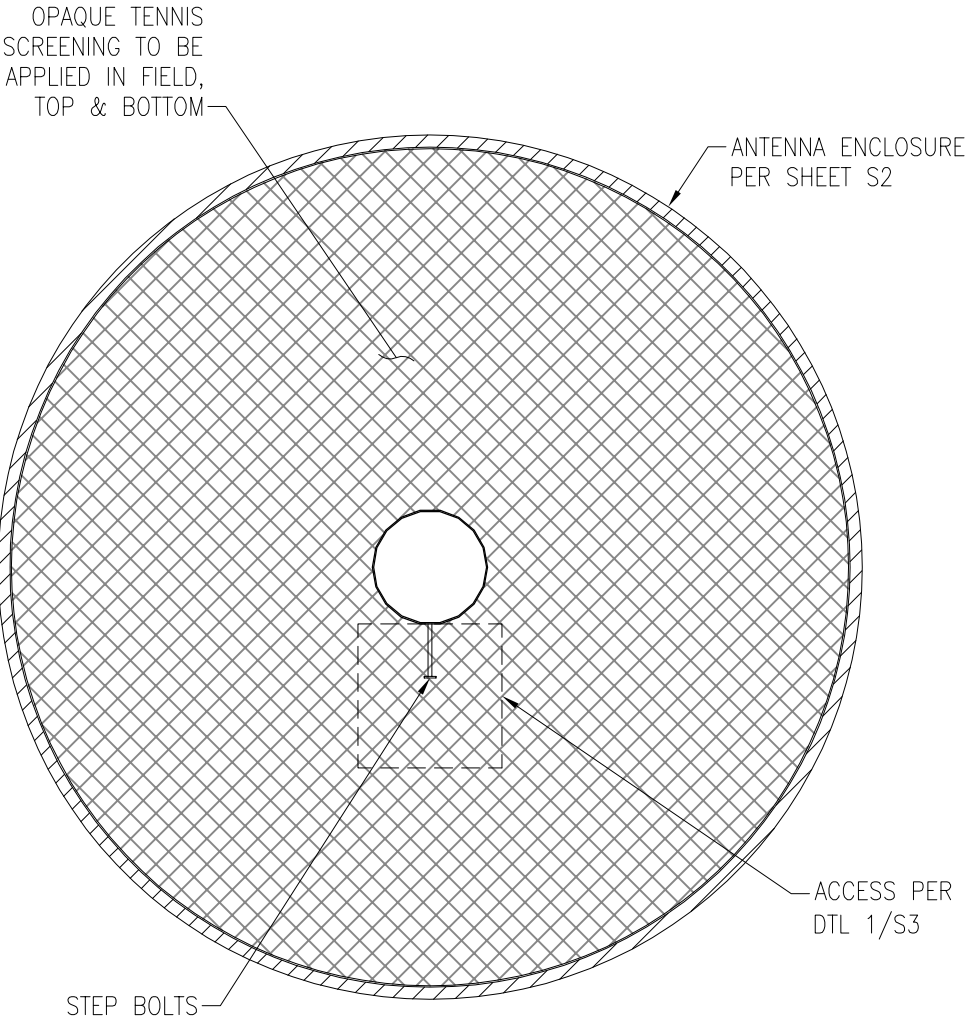
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NORTH CAROLINA

PROFESSIONAL

SEAL

044374

ENGINEER

TREVOR P. HAWKES

04/06/17

DRAWING NOT TO SCALE. UNLESS SPECIFIED OTHERWISE DIMENSIONS SHOWN ARE IN INCHES

TOLERANCES	
DECIMALS	ANGULAR
X ± 1/16"	X ± 0.5°
.XXX ± 0.01"	

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SITE: BRADLEY MIDDLE SCHOOL

13345 BEATTIES FORD ROAD

HUNTERSVILLE, NC

JOB #: BG16-00460W-05R3

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DESIGNED: TAJ-VSE

REVISED:

S6

4/6/17

REVISION

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