

**TECHNICAL SPECIFICATION NOTES:**

1. CONTACT THE ENGINEER CONCERNING ANY CHANGES OR MODIFICATIONS THAT MAY BE REQUIRED DUE TO THE EXISTING CONDITIONS.
2. ALL BOLTS 1/2" OR LESS TO BE INSTALLED WITH H OR 2H NUTS.
3. ALL BOLTS GREATER THAN 1/2" TO BE INSTALLED WITH 2H NUTS.
4. INSTALLATION OF NON-SLIP MATERIAL ON THE STAIR TREADS AT THE SITE'S DISCRETION IS ALLOWED.
5. BOLTED CONNECTIONS
  - A. ALL BOLTS TO BE TIGHTENED TO SNUG-TIGHT CONDITION AS DEFINED PER AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.
  - B. ALL BLIND FASTENERS TO BE TIGHTENED TO REQUIRED TORQUE SPECIFIED BY MANUFACTURER.
6. AFTER FIELD MODIFICATIONS OF ANY STEEL MEMBERS, COAT / REPAIR EXPOSED STEEL SURFACES PER NOTE 7D.
7. FINISHING SPECIFICATIONS - ALL MATERIAL TO BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
  - A. FABRICATED MATERIAL - ASTM A123.
  - B. HARDWARE - ASTM A153.
  - C. BLIND FASTENERS TO BE HOT DIPPED GALVANIZED PER MANUFACTURER SPECIFICATION.
  - D. REPAIRS OF DAMAGE TO GALVANIZED COATINGS DURING ASSEMBLY - ASTM A780.
8. FABRICATION AND ERECTION TO FOLLOW AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS. DIMENSIONAL TOLERANCES TO BE IN ACCORDANCE WITH AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
9. ALL WELDING TO BE DONE IN ACCORDANCE WITH AWS D1.1 STRUCTURAL WELDING CODE. ALL WELDING TO BE DONE BY AWS CERTIFIED WELDER USING E70XX RODS.
10. REFERENCE CALCULATION PACKAGE TITLED "BBRE KONTEK 40FT TOWER WITH WRAP AROUND STAIRS STRUCTURAL CALCULATIONS - ST LUCIE NUCLEAR STATION" FOR ANY CALCULATION RELATED INFORMATION.
11. APPROXIMATE BBRE WEIGHT: 55,000#
12. APPROXIMATE TOWER WEIGHT: 45,000#
13. APPROXIMATE FOUNDATION WEIGHT: 40,000# EACH
14. APPROXIMATE STAIR PAD WEIGHT: 3,000#
15. APPROXIMATE TOWER TOTAL WEIGHT: 263,000#

**FASTENER QUANTITIES**

NOTE:  
 1. ALL FASTENER HARDWARE TO BE HOT DIPPED GALVANIZED ASTM 153 or EQUAL.  
 2. CONTRACTOR'S OPTION TO UTILIZE TENSION CONTROLLED BOLTS OR HEAVY HEX BOLTS

**SITE BOLTS**

BOLT Qty	DESCRIPTION
44	BOLT 1"1/4 DIA A325 TC 3"3/4
40	BOLT 1"1/4 DIA A325 TC 5"1/4
126	BOLT 3/4" DIA A325 2"1/2
2	BOLT 3/4" DIA A325 4"
62	BOLT 3/4" DIA A325 TC 2"
22	BOLT 3/4" DIA A325 TC 2"1/4
128	BOLT 3/4" DIA A325 TC 2"3/4
288	BOLT 3/4" DIA A325 TC 3"
2	BOLT 3/4" DIA A325 TC 4"

WASHER Qty	DESCRIPTION
128	WASHER 3/4" BEVEL
84	WASHER 1"1/4 HARDENED PLAIN
630	WASHER 3/4" HARDENED PLAIN

NUT Qty	DESCRIPTION
84	NUT 1"1/4 HEAVY HEX
630	NUT 3/4" HEAVY HEX

MISC. ITEMS Qty	DESCRIPTION
20	HILTI_KB-TZ_SS (ASSEMBLIES)
184	BA-LHBM12-1HDG (HOLLO-BOLT)

**SHOP BOLTS**

BOLT Qty	DESCRIPTION
116	BOLT 3/4" DIA A325 TC 2"1/4
4	BOLT 3/4" DIA A325 TC 4"
200	BOLT 3/8" DIA A307 1"1/2
66	BOLT 3/4" DIA A325 TC 2"3/4
264	BOLT 3/4" DIA A325 TC 3"
48	BOLT 3/8" DIA A307 1"

WASHER Qty	DESCRIPTION
120	WASHER 3/4" HARDENED PLAIN
200	WASHER 3/8" HARDENED PLAIN
330	WASHER 3/4" HARDENED PLAIN
48	WASHER 3/8" HARDENED PLAIN

NUT Qty	DESCRIPTION
120	NUT 3/4" HEAVY HEX
200	NUT 3/8" HEX
330	NUT 3/4" HEAVY HEX
48	NUT 3/8" HEX

**ASSEMBLY QUANTITIES**

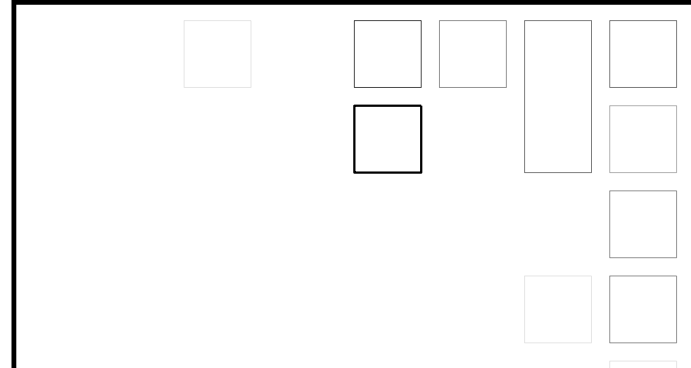
Mark	Qty	DESCRIPTION
010001	2	BBRE-16 PRECAST FNDNS
010002	2	BBRE-16 PRECAST FNDNS
010003	1	PRECAST PAD
011001	1	COLUMN
011002	4	COLUMNS
011003	1	COLUMN
011004	1	COLUMN
011005	1	COLUMN
011006	2	COLUMNS
011007	1	COLUMN
011008	1	COLUMN
011009	1	COLUMN
011010	1	COLUMN
012001	1	BEAM
012002	1	BEAM
012003	6	BEAMS
012004	1	BEAM
012005	1	BEAM
012006	1	BEAM
013001	48	VERTICAL BRACES
013002	7	VERTICAL BRACES
013003	2	VERTICAL BRACES
013004	6	GUSSETS
013005	1	GUSSET
013006	1	GUSSET
013007	1	GUSSET
013008	2	VERTICAL BRACES
013009	1	VERTICAL BRACE
013010	2	GUSSETS
013011	1	GUSSET
014001	12	HORIZONTAL BRACES
014002	20	HORIZONTAL BRACES
014003	12	HORIZONTAL BRACES
014004	4	SEE 018000 SERIES DWG's
014005	8	SEE 018000 SERIES DWG's
015001	1	SEE 018000 SERIES DWG's
015002	1	SEE 018000 SERIES DWG's
015003	1	SEE 018000 SERIES DWG's
015004	1	SEE 018000 SERIES DWG's
015005	1	SEE 018000 SERIES DWG's
015006	4	SEE 018000 SERIES DWG's
015007	3	SEE 018000 SERIES DWG's
015008	4	SEE 018000 SERIES DWG's
015009	1	SEE 018000 SERIES DWG's
015010	1	SEE 018000 SERIES DWG's
015011	1	SEE 018000 SERIES DWG's
015012	1	SEE 018000 SERIES DWG's
015013	1	SEE 018000 SERIES DWG's
015014	1	SEE 018000 SERIES DWG's
015015	1	SEE 018000 SERIES DWG's
015016	1	SEE 018000 SERIES DWG's
015017	1	SEE 018000 SERIES DWG's
015018	3	SEE 018000 SERIES DWG's
015019	1	SEE 018000 SERIES DWG's
015020	1	SEE 018000 SERIES DWG's
016001	50	SEE 018000 SERIES DWG's
016002	1	SERRATED GRATING
016003	2	SERRATED GRATINGS
016004	3	SERRATED GRATINGS
016005	1	SERRATED GRATING
016006	1	SERRATED GRATING
016007	1	SERRATED GRATING
016008	1	SEE 018000 SERIES DWG's
017001	1	RAIL
017002	1	RAIL
017003	1	RAIL

**ASSEMBLY QUANTITIES**

Mark	Qty	DESCRIPTION
017004	1	RAIL
017005	1	RAIL
017006	1	RAIL
017007	1	RAIL
017008	1	RAIL
017009	1	RAIL
017010	1	RAIL
017011	1	RAIL
017012	1	RAIL
017013	1	RAIL
017014	1	RAIL
017015	1	RAIL
017016	1	RAIL
019001	8	RODS
019002	8	RODS
019003	3	BENT PLATES
018001	1	ASSEMBLED STAIR UNIT
018002	1	ASSEMBLED STAIR UNIT
018003	1	ASSEMBLED STAIR UNIT
018004	1	ASSEMBLED STAIR UNIT
018005	1	ASSEMBLED STAIR UNIT
018006	1	ASSEMBLED STAIR UNIT
-	-	5000 PSI NON-SHRINK CEMENTITIOUS GROUT (QUANTITY AS NEEDED)

**Thornton Tomasetti**

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REV	ISSUE	DATE
1	ISSUED FOR REVIEW ONLY / NOT FOR CONSTRUCTION	07.11.2018

**KONTEK INDUSTRIES  
ALEC BAIRD**

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 Kannapolis NC, 28  
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**SITE PLAN**

PROJECT NUMBER: <b>NM18013.00</b>	SHEET NUMBER
SCALE: <b>N/A</b>	<b>01E01</b>
DRAWN BY: <b>HMORGAN</b>	
CHECKED BY: <b>TLAIRD</b>	
DATE: <b>06/27/2018</b>	