## 2018 IBC - CHAPTER 17
## SPECIAL INSPECTIONS AND TESTS

TABLE 1705.3
REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

| TYPE | CONTINUOUS SPECIAL INSPECTION | PERIODIC SPECIAL INSPECTI... | REFERENCED STANDARD | IBC REFERENCE |
|---|---|---|---|---|
| 1. INSPECT REINFORCMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY... | - | X | ACI 318: Ch. 20, 25.2, 25.3,... | 1908.4 |
| 2. REINFORCING BAR WELDING: | | | | |
| A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706; | - | X | AWS D1.4 | - |
| B. INSPECT SINGLE-PASS FILLET WELDS, MAX... | | X | ACI 318: 26.6.4 | |
| C. INSPECT ALL OTHER WELDS | X | | | |
| 3 INSPECT ANCHORS CAST IN CONCRETE | - | X | ACI 318: 17.8.2 | - |
| 4 INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS | | | | |
| A ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED... | X | X | ACI 318: 17.8.2.4 | - |
| B MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a | | | ACI 318: 17.8.2 | |
| 5 VERIFYING USE OF REQUIRED DESIGN MIX | - | X | ACI 318: CH 19, 26.4.3,26.4.4 | 1904.1, 1904.2, 1908.2, 1908.3 |
| 6 PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE... | X | - | ASTM C172, ASTM C31, ACI 318: 26.5, 26.12 | 1908.10 |
| 7 INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION... | X | - | ACI 318: 26.5 | 1908.6, 1908.7, 1908.8 |
| 8 VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES | - | X | ACI 318: 26.5.3-26.5.5 | 1908.9 |
| 9 INSPECT PRESTRESSED CONCRETE FOR: | | | | |
| A APPLICATION OF PRESTRESSING FORCES; AND | X | - | ACI 318: 26.10 | - |
| B GROUTING OF BONDED PRESTRESSING... | X | - | | |
| 10 INSPECT ERECTION OF PRECAST CONCRETE MEMBERS | - | X | ACI 318: 26.9 | - |
| 11 VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL... | - | X | ACI 318: 26.11.2 | - |
| 12 INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED | - | X | ACI 318: 26.11.1.2 (b) | - |

FOR SI: 1 INCH = 25.4 MM

A. WHERE APPLICABLE, SEE SECTION 1705.12, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE

B. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

TABLE 1705.6
REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

| TYPE | CONTINOUS SPECIAL INSPECTION | PERIODIC SPECIAL INSPECTION |
|---|---|---|
| 1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY | - | X |
| 2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL | - | X |
| 3. PEREFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIAL | - | X |
| 4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL | X | - |
| 5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY | - | X |

## TMS 402/602-16 MASONRY INSTITUTE OF AMERICAN BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES CHAPTER 3 'QUALITY AND CONSTRUCTION'

MASONRY TABLE 3.1.1 - LEVEL A QUALITY ASSURANCE

| MINIMUM VERIFICATION |
|---|
| PRIOR TO CONSTRUCTION, VERIFY CERTIFICATES OF COMPLIANCE USED IN MASONRY CONSTRUCTION |

TABLE 3.1.2 - LEVEL B QUALITY ASSURANCE

| MINIMUM TESTS |
|---|
| VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.5 B.1.b.3 FOR SELF-CONSOLIDATING GROUT |
| VERIFICATION OF f'm AND f'AAC IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.4 B PRIOR TO CONSTRUCTION, EXCEPT WHERE... |

| MINIMUM SPECIAL INSPECTION | | | | |
|---|---|---|---|---|
| INSPECTION TASK | FREQUENCY (a) | | REFERENCE FOR CRITERIA | |
| | CONTINUOUS | PERIODIC | TMS 402/ ACI 530/ ASCE 5 | TMS 602/ACI 530.1/ASCE 6 |
| 1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS | | X | | ART. 1.5 |
| 2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: | | | | |
| A. PROPORTIONS OF SITE-PREPARED MORTAR | | X | | ART. 2.1, 2.6 A |
| B. CONSTRUCTION OF MORTAR JOINTS | | X | | ART. 3.3 B |
| C. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES | | X | | ART. 2.4 B, 2.4 H |
| D. LOCATION OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES | | X | | ART. 3.4, 3.6 A |
| E. PRESTRESSING TECHNIQUE | | X | | ART. 3.6 B |
| F. PROPERTIES OF THIN-BED MORTAR FOR ACC MASONRY | X(b) | X(c) | | ART. 2.1 C |
| 3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: | | | | |
| A. GROUT SPACE | | X | | ART. 3.2 D, 3.2 F |
| B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES | | X | SEC. 6.1 | ART. 2.4, 3.4 |
| C. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES | | X | SEC. 6.1, 6.2.1, 6.2.6, 6.2.7 | ART. 3.2 E, 3.4, 3.6 A |
| D. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS | | X | | ART. 2.6 B, 2.4 G.1.b |
| E. CONSTRUCTION OF MORTAR JOINTS | | X | | ART. 3.3 B |
| 4. VERIFY DURING CONSTRUCTION: | | | | |
| A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS | | X | | ART. 3.3 F |
| B. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION | | X | SEC. 1.2.1(e), 6.1.4.3, 6.2.1 | |
| C. WELDING OF REINFORCEMENT | X | | SEC. 8.1.6.7.2, 9.3.3.4(c), 11.3.3.4(b) | |
| D. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPURATURE BELOW 40°F (4.4°F)) OR HOT WEATHER (TEMPURATURE ABOVE 90°F (32.2°C)) | | X | | |
| E. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE | X | | | |
| F. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE | X | | | |
| G. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS | X(b) | X(c) | | |
| 5. OBSERVE PREPARATIONS OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS | | X | | ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4 |

a - FREQUENCY REFER TO THE FREQUENCY OF SPECIAL INSPECTION, WHICH MAY BE CONTINUOUS DURING THE TASK LISTED OR PERIODIC DURING THE LISTED TASK, AS DEFINED IN THE TABLE

b - REQUIRED FOR THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY
c - REQUIRED AFTER THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY

TABLE 3.1.3 - LEVEL C QUALITY ASSURANCE

| MINIMUM TESTS |
|---|
| VERIFICATION OF f'm AND f'AAC IN ACCORDANCE WITH SPECIFICATION ARTICLE 1.4 B PRIOR TO CONSTRUCTION AND FOR EVERY 5,000 SQ. FT (465 SQ. M) DURING CONSTRUCTION |
| VERIFICATION OF PROPORTIONS OF MATERIALS IN PREMIXED OR PREBLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATING GROUT, AS DELIVERED TO THE PROJECT SITE |
| VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SIT IN ACCORDANCE WITH SPECIFICATIONS RTICLE 1.5 B.1.b.3 FOR SELF-CONSOLIDATING GROUT |

| MINIMUM SPECIAL INSPECTION | | | | |
|---|---|---|---|---|
| INSPECTION TASK | FREQUENCY (a) | | REFERENCE FOR CRITERIA | |
| | CONTINUOUS | PERIODIC | TMS 402/ ACI 530/ ASCE 5 | TMS 602/ACI 530.1/ASCE 6 |
| 1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS | | X | | ART. 1.5 |
| 2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: | | | | |
| A. PROPORTIONS OF SITE-PREPARED MORTAR, GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS | | X | | ART. 2.1, 2.6 A, 2.6 B, 2.6 C, 2.4 G 1.b |
| B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES | | X | SEC. 6.1 | ART. 2.4, 3.4 |
| C. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS | | X | | ART. 3.3 B |
| D. PLACEMENT OF REINFORCMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES | X | | SEC. 6.1, 6.2.1, 6.2.6, 6.2.7 | ART. 3.2 E 3.4, 3.6 A |
| E. GROUT SPACE PRIOR TO GROUTING | X | | | ART. 3.2 D, 3.2 F |
| F. PLACEMENT OF GROUNT AND PRESTRESSING GROUT FOR BONDED TENDONS | X | | | ART. 3.5, 3.6 C |
| G. SIZE AND LOCATION OF STRUCTUAL ELEMENTS | | X | | ART. 3.3 F |
| H. TYPE, SIZE, AND LOCATION OF ACHORS INCLUDING OTHER DETAILS OF ACHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION | X | | SEC. 1.2.1(e), 6.1.4.3, 6.2.1 | |
| I. WELDING REIFORCEMENT | X | | SEC. 8.1.6.7.2, 9.3.3.4(c), 11.3.3.4(b) | |
| J. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32.2°C)) | | X | | ART. 1.8 C, 1.8 D |
| K. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE | X | | | ART. 3.6 B |
| L. PLACEMENT OF AAC MASONRY UNITS AND CONTRUCTION OF THIN-BED MORTAR JOINTS | X | | | ART. 3.3 B.9, 3.3 F.1.b |
| M. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY | X | | | ART. 2.1 C.1 |
| 3. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS | | | | ART. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, 1.4 B.4 |

(a) FREQUENCY REFERS TO THE FREQUENCY OF SPECIAL INSPECTION, WHICH MAY BE CONTINUOUS DURING THE TASK LISTED OR PERIODIC DURING THE LISTED TASK, AS DEFINED IN THE TABLE

## SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, JUNE 22, 2010 AMERICAN INSTITUTE OF STEEL CONSTRUCTION MINIMUM REQUIREMENTS FOR INSPECTION - CHAPTER N WELDING AND BOLTING

TABLE N5.4-1
INSPECTION TASKS PRIOR TO WELDING

| INSPECTION TASKS PRIOR TO WELDING | QC | QA |
|---|---|---|
| WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS | P | O |
| WPS AVAILABLE | P | P |
| MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE | P | P |
| MATERIAL IDENTIFICATION (TYPE/GRADE) | O | O |
| WELDER IDENTIFICATION SYSTEM [a] | O | O |
| FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)<br>• JOINT PREPARATIONS<br>• DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)<br>• CLEANLINESS (CONDITION OF STEEL SURFACES)<br>• TACKING (TACK WELD QUALITY AND LOCATION)<br>• BACKING TYPE AND FIT (IF APPLICABLE) | O | O |
| FIT-UP OF CJP GROOVE WELDS OF HSS T-,Y- AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY)<br>• JOINT PREPARATIONS<br>• DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)<br>• CLEANLINESS (CONDITION OF STEEL SURFACES)<br>• TACKING (TACK WELD QUALITY AND LOCATION) | P | O |
| CONFIGURATION AND FINISH OF ACCESS HOLES | O | O |
| FIT-UP OF FILLET WELDS<br>• DIMENSIONS (ALIGNMENT, GAPS AND ROOT)<br>• CLEANLINESS (CONDITION OF STEEL SURFACES)<br>• TACKING (TACK WELD QUALITY AND LOCATION) | O | O |
| CHECK WELDING EQUIPMENT | O | - |

[a] THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LOW-STRESS TYPE.

TABLE N5.4-2
INSPECTION TASKS DURING WELDING

| INSPECTION TASKS DURING WELDING | QC | QA |
|---|---|---|
| CONTROL AND HANDLING OF WELDING CONSUMABLES<br>• PACKAGING<br>• EXPOSURE CONTROL | O | O |
| NO WELDING OVER CRACKED TACK WELDS | O | O |
| ENVIROMENTAL CONDITIONS<br>• WIND SPEED WITHIN LIMITS<br>• PRECIPITATION AND TEMPURATURE | O | O |
| WPS FOLLOWED<br>• SETTINGS ON WELDING EQUIPMENT<br>• TRAVEL SPEED<br>• SELECTED WELDING MATERIALS<br>• SHIELDING GAS TYPE/FLOW RATE<br>• PREHEAT APPLIED<br>• INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.)<br>• PROPER POSITION (F,V,H,OH) | T | O |
| WELDING TECHNIQUES<br>• INTERPASS AND FINAL CLEANING<br>• EACH PASS WITHIN PROFILE LIMITATIONS<br>• EACH PASS MEETS QUALITY REQUIRMENTS | O | O |
| PLACEMENT AND INSTALLATION OF STEEL HEADED STUF ANCHORS | P | P |

TABLE N5.4-3
INSPECTION TASKS AFTER WELDING

| INSPECTION TASKS AFTER WELDING | QC | QA |
|---|---|---|
| WELDS CLEANED | O | O |
| SIZE, LENGTH AND LOCATION OF WELDS | P | P |
| WELDS MEET VISUAL ACCEPTANCE CRITERIA<br>• CRACK PROHIBITION<br>• WELD/BASE-METAL FUSION<br>• CRATER CROSS SECTION<br>• WELD PROFILES<br>• WELD SIZE<br>• UNDERCUT<br>• POROSITY | P | P |
| ARC STRIKES | P | P |
| K-AREA [a] | P | P |
| WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES [b] | P | P |
| BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) | P | P |
| REPAIR ACTIVITIES | P | P |
| DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER | P | P |
| NO PROHIBITED WELD HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR | O | O |

[a] WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. (75MM) OF THE WELD

[b] AFTER ROLLED HEAVY SHAPES (SEE SECTION A3.1c) AND BUILT-UP HEAVY SHAPES (SEE SECTION A3.1d) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS

TABLE N5.6-1
INSPECTION TASKS PRIOR TO BOLTING

| INSPECTION TASKS PRIOR TO BOLTING | QC | QA |
|---|---|---|
| MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS | O | P |
| FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS | O | O |
| PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE) | O | O |
| PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL | O | O |
| CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS | O | O |
| PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED | P | O |
| PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS | O | O |

TABLE N5.6-2
INSPECTION TASKS DURING BOLTING

| INSPECTION TASKS DURING BOLTING | QC | QA |
|---|---|---|
| FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS ARE POSITIONED AS REQUIRED | O | O |
| JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION | O | O |
| FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING | O | O |
| FASTENERS ARE PRETENTIONED IN ACCORDANCE WITH THE RSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES | O | O |

TABLE N5.6-3
INSPECTION TASKS AFTER BOLTING

| INSPECTION TASKS AFTER BOLTING | QC | QA |
|---|---|---|
| DOCUMENT ACCEPTANCE OF REJECTION OF BOLTED CONNECTIONS | P | P |

## AMERICAN NATIONAL STANDARDS INSTITUTE/STEEL DECK INSTITUTE QA/QC - 2017 STANDARD FOR QUALITY CONTROL AND QUALITY ASSURANCE FOR INSTALLATION OF STEEL DECK

TABLE 1.1. INSPECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT

| | TASK | QC | QA |
|---|---|---|---|
| A | VERIFY COMPLIANCE OF MATERIALS (DECK AND ALL DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS | PERFORM | PERFORM |
| B | DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES | PERFORM | PERFORM |

TABLE 1.2. INSPECTION OR EXECUTION TASKS AFTER DECK PLACEMENT

| | TASK | QC | QA |
|---|---|---|---|
| A | VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS | PERFORM | PERFORM |
| B | VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS | N/A | PERFORM |
| C | DOCUMENT ACCEPTANCE OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES | PERFORM | PERFORM |

TABLE 1.3. INSPECTION OR EXECUTION TASKS PRIOR TO WELDING

| | TASK | QC | QA |
|---|---|---|---|
| A | WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE | OBSERVE | OBSERVE |
| B | MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE | OBSERVE | OBSERVE |
| C | MATERIAL IDENTIFICATION (TYPE/GRADE) | OBSERVE | OBSERVE |
| D | CHECK WELDING EQUIPMENT | PERFORM | PERFORM |

TABLE 1.4. INSPECTION OR EXECUTION TASKS DURING WELDING

| | TASK | QC | QA |
|---|---|---|---|
| A | USE OF QUALIFIED WELDERS | OBSERVE | OBSERVE |
| B | CONTROL AND HANDLING OF WELDING CONSUMABLES | OBSERVE | OBSERVE |
| C | ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE) | OBSERVE | OBSERVE |
| D | WPS FOLLOWED | PERFORM | PERFORM |

TABLE 1.5. INSPECTION OR EXECUTION TASKS AFTER WELDING

| | TASK | QC | QA |
|---|---|---|---|
| A | VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER WELDS | PERFORM | PERFORM |
| B | WELDS MEET VISUAL ACCEPTANCE CRITERIA | PERFORM | PERFORM |
| C | VERIFY REPAIR ACTIVITIES | PERFORM | PERFORM |
| D | DOCUMENT ACCEPTANCE OR REJECTION OF WELDS | PERFORM | PERFORM |

TABLE 1.6. INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING

| | TASK | QC | QA |
|---|---|---|---|
| A | MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS | OBSERVE | OBSERVE |
| B | PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION | OBSERVE | OBSERVE |
| C | PROPER STORAGE FOR MECHANICAL FASTENERS | OBSERVE | OBSERVE |

TABLE 1.7. INSPECTION OR EXECUTION TASKS DURING MECHANICAL FASTENING

| | TASK | QC | QA |
|---|---|---|---|
| A | FASTENERS ARE POSITIONED AS REQUIRED | OBSERVE | OBSERVE |
| B | FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS | OBSERVE | OBSERVE |

TABLE 1.8. INSPECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING

| | TASK | QC | QA |
|---|---|---|---|
| A | CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS | PERFORM | PERFORM |
| B | CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS | PERFORM | PERFORM |
| C | CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS | PERFORM | PERFORM |
| D | VERIFY REPAIR ACTIVITIES | PERFORM | PERFORM |
| E | DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS | PERFORM | PERFORM |

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SEAL ON THIS DOCUMENT AUTHORIZED BY:

GEORGIA REGISTERED No. PE030608 PROFESSIONAL ENGINEER WILLIAM B. KUNSELL
04/29/2022

PROJECT INFORMATION:

BROWNFIELD MODIFICATIONS

CLIENT INFORMATION:

ASCEND ELEMENTS
ASCEND ELEMENTS, INC
9172 INDUSTRIAL DR NE
COVINGTON, GA
30014

CLIENT PROJECT NO: XXX-XXXXX-XX

| NO. | DATE | SUBJECT |
|---|---|---|
| A | 04/29/22 | FOR CONSTRUCTION - PKG 11C02 |

REVISION OR ISSUE

SSOE, Inc.
1001 Madison Avenue
Toledo, OH 43604
T. (419) 255-3830

PROJECT NO: 021-01975-00
PROJECT MANAGER: R. FOX
DESIGNED: H.FIRSTER
CHECKED: D. LYKINS

DRAWING TITLE:
2018 IBC SPECIAL INSPECTIONS

DRAWING NO:
S-005

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