

Order Plans @

GENERAL NOTES (CONT.)

100 STRUCTURAL TESTS AND SPECIAL INSPECTIONS

THE OWNER SHALL HIRE AN INDEPENDENT APPROVED AGENCY TO PROVIDE INSPECTIONS DURING THE CONSTRUCTION OF THE TYPES OF WORK PER IBC 2015 CHAPTER 17 AND AS LISTED HEREIN. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS SPECIFIED FOR ALL OTHER BUILDINGS IN IBC 2015 SECTION 1703.3.

THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK OUTLINED BELOW FOR CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS, AND KEEP RECORDS OF INSPECTIONS, FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN CHARGE. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION, AND IF NOT UNCORRECTED, TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO COMPLETION OF THAT PHASE OF THE WORK. A FINAL REPORT OF INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES SHALL BE SUBMITTED PERIODICALLY AT A FREQUENCY AGREED UPON BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL PRIOR TO THE START OF THE WORK.

A. STEEL CONSTRUCTION: SPECIAL INSPECTIONS FOR STEEL ELEMENTS OF THE BUILDING SHALL INCLUDE THE FOLLOWING:

1. PERIODIC MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS.
2. PERIODIC INSPECTION OF HIGH-STRENGTH BOLTED BEARING TYPE CONNECTIONS.
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL MATERIAL INCLUDING VERIFICATION OF CONFORMANCE TO ASTM STANDARDS SPECIFIED IN THE CONSTRUCTION DOCUMENTS, AND VERIFICATION OF MANUFACTURER'S CERTIFIED MILL TEST REPORTS.
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS INCLUDING VERIFICATION OF CONFORMANCE TO AWS STANDARDS SPECIFIED IN THE CONSTRUCTION DOCUMENTS, AND VERIFICATION OF MANUFACTURER'S CERTIFICATE OF COMPLIANCE.
5. CONTINUOUS INSPECTION OF COMPLETE AND PARTIAL PENETRATION GROOVE WELDS, MULTI-PASS FILLET WELDS, AND SINGLE PASS FILLET WELDS GREATER THAN 5/16".
4. PERIODIC INSPECTION OF SINGLE PASS WELDS LESS THAN 5/16", AND FLOOR AND DECK WELDS.
5. PERIODIC INSPECTION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706, AND OTHER REINFORCING STEEL.
6. PERIODIC INSPECTION OF ANCHOR RODS AND EMBEDDED ITEMS.

B. CONCRETE CONSTRUCTION: SPECIAL INSPECTIONS AND VERIFICATIONS OF CONCRETE CONSTRUCTION SHALL INCLUDE THE FOLLOWING:

1. PERIODIC INSPECTION OF REINFORCING STEEL PLACEMENT,
2. CONTINUOUS INSPECTION OF ANCHOR RODS AND EMBED ASSEMBLIES TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE.
3. PERIODIC INSPECTION TO VERIFY USE OF REQUIRED CONCRETE DESIGN MIX.
4. CONTINUOUS INSPECTION OF SAMPLING OF FRESH CONCRETE AND PERFORMING SLUMP, AIR CONTENT AND DETERMINING THE TEMPERATURE OF FRESH CONCRETE AT THE TIME OF MAKING SPECIMENS FOR STRENGTH TESTS.
5. CONTINUOUS INSPECTION OF CONCRETE FOR PROPER APPLICATION TECHNIQUES.
6. PERIODIC INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.
7. PERIODIC VERIFICATION OF IN-SITU CONCRETE STRENGTH.

C. SOILS: SPECIAL INSPECTIONS FOR EXISTING SITE SOIL CONDITIONS, FILL PLACEMENT AND LOAD BEARING REQUIREMENTS SHALL INCLUDE THE FOLLOWING. THE SOILS REPORT SHALL BE USED TO DETERMINE COMPLIANCE.

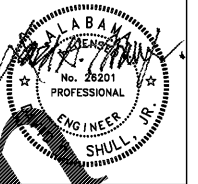
1. PRIOR TO PLACEMENT OF PREPARED FILL, DETERMINE THAT THE SITE HAS BEEN PREPARED IN ACCORDANCE WITH THE APPROVED SOILS REPORT.
2. DURING PLACEMENT AND COMPACTION OF THE FILL MATERIAL DETERMINE THAT THE MATERIAL BEING USED AND THE MAXIMUM LIFT THICKNESS COMPLY WITH THE APPROVED SOILS REPORT, AS SPECIFIED IN SECTION 0504.4.
3. DETERMINE, AT THE APPROVED FREQUENCY, THAT THE IN-PLACE DRY DENSITY OF THE COMPACTED FILL COMPLIES WITH THE APPROVED SOILS REPORT.

D. WOOD AND PRE-ENGINEERED PLATE-CONNECTED WOOD TRUSS FRAMING

1. PERIODIC INSPECTION OF FRAMING MEMBER SIZES, SPACINGS, SPECIES, AND LOCATIONS.
2. PERIODIC INSPECTION OF CONNECTIONS OF MEMBERS.
3. PERIODIC INSPECTION OF WALL SHEATHING ATTACHMENT TO STUDS TO ENSURE COMPLIANCE WITH CODE REQUIREMENTS AND SHEARWALL NAILING SCHEDULE.
4. PERIODIC INSPECTION OF FLOOR SHEATHING ATTACHMENT TO FLOOR FRAMING MEMBERS TO ENSURE COMPLIANCE WITH CODE REQUIREMENTS AND NAILING SCHEDULE.
5. PERIODIC INSPECTION OF PLATE-CONNECTED WOOD TRUSS FRAMING TO ENSURE MEMBER SIZES, SPACINGS AND LOCATIONS, BRACING, AND MEMBER CONNECTIONS RELATES TO TRUSS COMPONENTS AND TRUSS TO SUPPORTING FRAMING.

800 POST-TENSIONED CONCRETE

- 8.01 POST-TENSIONED CONCRETE SHALL CONFORM TO: ACI 318-14, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND FTI M106-15 SPECIFICATION FOR UNBONDED SINGLE STRAND TENDONS USED FOR SLAB-ON-GROUND CONSTRUCTION.
- 8.02 POST-TENSIONING TENDONS SHALL CONFORM TO ASTM A416, GRADE 210 KSI. REPAIR TORN OR DAMAGED SHEATHING BEFORE PLACING CONCRETE. SMALL TEARS OR SHEATH FREE AREAS ARE NOT PERMITTED.
- 8.03 MINIMUM CONCRETE STRENGTH SHALL BE 2500 PSI BEFORE STRESSING UNLESS NOTED OTHERWISE. STRESSING OPERATION SHALL BEGIN AS SOON AS SPECIFIED CONCRETE STRENGTH IS ATTAINED.
- 8.04 PLACE TENDONS IN SMOOTH PARABOLIC CURVES BETWEEN HIGH AND LOW POINTS SHOWN.
- 8.05 CORING OF SLABS OR USE OF DRILLED MECHANICAL ANCHORS IS NOT PERMITTED WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
- 8.06 SHOW ALL OPENINGS AND SLEEVES ON THE SHOP DRAWINGS. ADDITIONAL OPENINGS NOT SHOWN SHALL REQUIRE APPROVAL BY THE DESIGN PROFESSIONAL OF RECORD PRIOR TO PLACEMENT.
- 8.07 RECORDS OF ALL JACKING FORCES AND ELONGATIONS SHALL BE KEPT BY A CERTIFIED PRESTRESSING INSPECTOR AND SHALL PROMPTLY BE SUBMITTED TO THE DESIGN PROFESSIONAL OF RECORD FOR REVIEW AND APPROVAL.
- 8.08 TWISTING OR ENTWINING OF STRANDS WITHIN A BUNDLE IS NOT PERMITTED.
- 8.09 FACES OF ALL FORMING CONES SHALL BE CLEANED OF GREASE AND PAINTED WITH EPOXY RESIN COMPOUND PRIOR TO PLACING HIGH STRENGTH NON-SHRINK GROUT INTO CONE FORM Voids.
- 8.10 DESIGN OF POST-TENSIONED MEMBERS IS BASED ON A FINAL EFFECTIVE STRESSING FORCE AFTER ALL LOSSES, OF 210 KIPS.
- 8.11 DO NOT CUT END OF TENDONS UNTIL STRESSING RECORDS ARE REVIEWED AND APPROVED BY THE DESIGN PROFESSIONAL OF RECORD.
- 8.12 SUBMIT DETAILED PRESTRESSING PROCEDURES AND SEQUENCE PRESTRESSING LOSS CALCULATIONS, STATIC AND DYNAMIC TESTS.
- 8.13 POST-TENSIONING FORCES AND TENDON QUANTITIES SPECIFIED ON THE DRAWINGS ARE REQUIRED EFFECTIVE FORCES AFTER ALL LOSSES ARE ACCOUNTED FOR. CALCULATIONS SUBMITTED SHALL INDICATE THE VARIOUS LOSS APPROPRIATE TO THIS PROJECT FOR THE MATERIALS PROPOSED.
- 8.14 IN CASE OF BROKEN TENDONS OR BREAK-OUTS, SUBMIT FOR APPROVAL DETAILED CALCULATIONS AND PROCEDURES FOR THE REMEDIAL WORK REQUIRED.
- 8.15 POST-TENSIONING CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF POST-TENSIONING NOT COMPLETED ON THE CONTRACT DOCUMENTS, RELATED REINFORCING STEEL, TENDON SUPPORT AND PROFILE BARS AND ANCHORAGE ZONE REINFORCING, PREPARING SHOP DRAWING AND PROVIDING ALL NECESSARY FIELD SUPERVISION AND INSPECTIONS TO ASSURE PROPER INSTALLATION, CALCULATIONS AND SHOP DRAWINGS SHALL BE SEALED BY A LICENSED DESIGN PROFESSIONAL REGISTERED IN THE STATE OF ALABAMA. DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS AND CALCULATIONS ARE COMPLETED AND REVIEWED.
- 8.16 AFTER CUTTING THE STRAND EXTENSIONS, USE A PRESSURE GREASE GUN TO FILL ANY VOIDS IN THE ANCHORAGE, PARTICULARLY BETWEEN THE WEDGES. THE GREASE SHALL BE SIMILAR TO THAT USED TO COATED THE TENDON. CLEAN THE CONICAL HOLE AT THE ANCHORAGE TO REMOVE ALL GREASE RESIDUE FROM THE WALLS OF THE HOLE WITH AN EPOXY BONDING AGENT TO HELP ACHIEVE PROPER BONDING OF THE MORTAR PLUG. FILL THE ANCHORAGE POCKET WITH A HIGH-STRENGTH, NON-SHRINK, LOW PERMEABILITY MORTAR GROUT THAT BONDS TO THE CONICAL ANCHORAGE POCKET. THE MORTAR SHALL BE FLUSH WITH CONCRETE. WHEREVER THERE ARE ANY INDICATIONS OF POOR BOND, TEARS, OR POROSITY, REMOVE AND REPLACE THE MORTAR.
- 8.17 DESIGN OF THE (CONTRACTOR ALTERNATE) POST-TENSIONED SLAB FOUNDATION SYSTEM SHALL BE PROVIDED FOR BY OWNER ON A DESIGN-BUILD BASIS. POST-TENSIONING CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF POST-TENSIONING NOT COMPLETED ON THE CONTRACT DOCUMENTS, RELATED REINFORCING STEEL, TENDON SUPPORT AND PROFILE BARS AND ANCHORAGE ZONE REINFORCING, PREPARING SHOP DRAWING AND PROVIDING ALL NECESSARY FIELD SUPERVISION AND INSPECTIONS TO ASSURE PROPER INSTALLATION, CALCULATIONS AND SHOP DRAWINGS SHALL BE SEALED BY A LICENSED DESIGN PROFESSIONAL REGISTERED IN THE STATE OF ALABAMA. DO NOT BEGIN FABRICATION UNTIL SHOP DRAWINGS AND CALCULATIONS ARE COMPLETED AND REVIEWED. SHULL & ASSOCIATES, INC. DOES NOT ASSUME OR ACCEPT LIABILITY FOR THE DESIGN ADEQUACY, OR STRUCTURAL PERFORMANCE OF THE POST-TENSIONED SLAB FOUNDATION. SUCH LIABILITY REMAINS WITH THE POST-TENSIONING CONTRACTOR. THE LIMIT OF LIABILITY FOR SHULL & ASSOCIATES, INC. SHALL BE LIMITED TO THE FRAMING ELEMENTS OF THE FRAMED STRUCTURE.



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100% Submittal 01.04.19

REVISIONS:
TAG: DATE:

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ALEXANDRIA
AN APARTMENT COMMUNITY
FOR
Bobo Family Group
HUNTSVILLE, ALABAMA

JOB NUMBER:
DRAWN BY: AV
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GENERAL NOTES

SHEET NO.

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