

GENERAL NOTES:

1. STATEMENT OF SPECIAL INSPECTIONS

A. THIS "STATEMENT OF SPECIAL INSPECTIONS" HAS BEEN PREPARED IN ACCORDANCE WITH CBC 2019, SECTION 1704.

B. SUBCONTRACTOR SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PROVIDE SPECIAL INSPECTION AND TEST DURING CONSTRUCTION IN ACCORDANCE WITH CBC 2019, CHAPTER 17.

C. EACH SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF BURNS AND MCDONNELL FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.

D. SPECIAL INSPECTION AGENCY SHALL SUBMIT INSPECTION REPORTS DURING CONSTRUCTION FOR VERIFICATION, INCLUDING FINAL REPORTS IN ACCORDANCE WITH CBC 2019, SECTION 1704.2.4.

E. SPECIAL INSPECTOR SHALL USE THE LATEST ISSUE OF THE STRUCTURAL DRAWINGS FOR ALL INSPECTIONS. SHOP FABRICATION DRAWINGS SHALL NOT BE USED FOR SUCH PURPOSES.

F. THE FOLLOWING TABLES IDENTIFY THE MATERIALS, SYSTEMS, AND COMPONENTS FOR WHICH SPECIAL INSPECTION IS REQUIRED.
2. TESTING REQUIREMENTS

A. SUBCONTRACTOR SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PROVIDE STRUCTURAL TESTING DURING CONSTRUCTION IN ACCORDANCE WITH CBC 2019, CHAPTER 17.

B. TESTING AGENCY SHALL SUBMIT TEST RESULTS DURING CONSTRUCTION FOR VERIFICATION INCLUDING A FINAL REPORT IN ACCORDANCE WITHCBC 2019, 1704.2.4.

C. THE TABLES BELOW IDENTIFY THE STRUCTURAL TESTS REQUIRED FOR THIS PROJECT.

3. STRUCTURAL OBSERVATIONS:

A. SUBCONTRACTOR SHALL EMPLOY ONE OR MORE APPROVED THIRD-PARTY REGISTERED DESIGN PROFESSIONALS TO PROVIDE STRUCTURAL OBSERVATIONS DURING CONSTRUCTION IN ACCORDANCE WITH CBC 2019, CHAPTER 17.

B. EACH STRUCTURAL OBSERVER SHALL SUBMIT WRITTEN STATEMENTS IDENTIFYING FREQUENCY AND EXTENT OF STRUCTURAL OBSERVATIONS AND ANY REPORTED DEFICIENCIES WHICH, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.

3. STRUCTURAL OBSERVATIONS (CONTINUED):

C. O = OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT TO BE DELAYED PENDING THESE INSPECTIONS.

D. P = PERFORM THESE TASKS FOR EACH JOINT OR MEMBER.

E. QA = INSPECTION THAT THE WORK IS IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS

F. QC = INSPECTION THAT THE WORK IS PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS

G. ALL COSTS DUE TO SPECIAL INSPECTIONS IN ACCORDANCE WITH CBC 2019, TMS 402 AND AISC 360-2016 SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR. THIS INCLUDES ALL QC AND QA REQUIREMENTS INDICATED ON S-003 & S-004.

H. QUALITY CONTROL: CONTROLS AND INSPECTIONS IMPLEMENTED BY THE FABRICATOR OR ERECTOR, AS APPLICABLE, TO ENSURE THAT THE MATERIAL PROVIDED AND WORK PERFORMED MEET THE REQUIREMENTS OF THE APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS.

I. QUALITY ASSURANCE: MONITORING AND INSPECTION TASKS PERFORMED BY AN AGENCY OR FIRM OTHER THAN THE FABRICATOR OR ERECTOR TO ENSURE THAT THE MATERIAL PROVIDED AND WORK PERFORMED BY THE FABRICATOR AND ERECTOR MEET THE REQUIREMENTS OF THE APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. QUALITY ASSURANCE INCLUDES THOSE TASKS DESIGNATED "SPECIAL INSPECTION" BY THE APPLICABLE BUILDING CODE.
- CBC 2019 TABLE 1705.3 REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION
- | VERIFICATION AND INSPECTION | | CONTINUOUS | PERIODIC | REFERENCED STANDARD | CBC REFERENCE |
|-----------------------------|---|------------|----------|---|--------------------------------|
| 1. | INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT. | - | X | ACI 318: 20, 25.2, 25.3, 26.6.1-26.6.3 | 1908.4 |
| 2. | REINFORCING BAR WELDING. | | | AWS D1.4 ACI 318: 26.6.4 | |
| a. | VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706. | - | X | | |
| b. | INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16". | - | X | | |
| c. | INSPECT ALL OTHER WELDS. | X | - | | |
| 3. | INSPECTION OF ANCHORS CAST IN CONCRETE. | - | X | ACI 318: 17.8.2 | |
| 4. | INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. | | | | |
| a. | ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. | X | - | ACI 318: 17.8.2.4 | |
| b. | MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a. | - | X | ACI 318: 17.8.2 | |
| 5. | VERIFYING USE OF REQUIRED DESIGN MIX. | - | X | ACI 318: 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 CONCRETE. | X | - | ASTM C 172, ASTM C 31, ACI 318: 26.5, 26.12 | 1908.10 |
| 7. | INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES. | 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. | | | ACI 318: 26.10 | |
| a. | APPLICATION OF PRESTRESSING FORCES. | X | - | | |
| b. | GROUTING OF BONDED PRESTRESSING TENDONS. | 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 BEAMS AND STRUCTURAL SLABS. | - | 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 ALSO SECTION 1705.12, SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE.

b. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED 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.
- Sheet Title

STATEMENT OF SPECIAL INSPECTIONS
- Dwg. No.

PLS2021-0432-0003D
- Sht. No.

S-003