

## SPECIAL INSPECTION PLAN

### A. DESCRIPTION OF THE WORK

1. The Threshold Inspector shall furnish all special inspection services for the above referenced Threshold Building including personnel, labor, materials, equipment and tools necessary for the implementation of the services to assure and verify compliance with requirements specified or indicated herein.
2. All special inspection services shall conform in all respects to the requirements of the Contract Documents including all approved amendments and addenda, and the State of Florida Threshold Law - Chapter 553 of the Florida Statutes.
3. The special inspection services shall consist primarily of observation and inspection of all structural members, frames, systems, and other building components that are required to resist and transmit vertical and lateral loads from the superstructure to the ground while maintaining structural integrity and life safety of the entire structure in parts and as a whole.

### B. QUALIFICATIONS OF THE THRESHOLD INSPECTOR

1. The Threshold Inspector shall be certified as required by current State of Florida legislation. The Threshold Inspector and its authorized representative shall be experienced and knowledgeable in the structural system involved.
  - a. The Threshold Inspector shall have a minimum of seven (7) years of experience in special inspection and design of similar structures.
  - b. The Threshold Inspector authorized representative shall have a minimum of five (5) years of experience in inspection of similar structures.
  - c. Resumes for both the Threshold Inspector and its authorized representative shall be submitted to the Owner, the Enforcing Agency having jurisdiction, and the Design Professional for review and approval.
2. The Threshold Inspector shall provide insurance certificates to the Owner for all applicable coverage, i.e., professional liability specifically covering special inspection assignments, general liability, automobile coverage, workmen's compensation, and any other appropriate coverage.

### C. THRESHOLD INSPECTOR RESPONSIBILITIES AND LIMITATIONS

1. General: The qualified Threshold Inspector to be retained by the Owner shall conduct special inspection services as required by the Enforcing Agency having jurisdiction. However, the presence of the Threshold Inspector does not relieve the Owner, the Enforcing Agency, the Design Professional, and the Contractor of their individual responsibilities.
2. The Threshold Inspector responsibilities shall include, but not limited to the following:

- a. Complete review and full understanding of the contract documents and its contents and design concepts in relation to the context of the special inspection services involved.
  - b. Submission of a certified affidavit attesting to a full understanding of the intent of the special inspection plan and strict compliance with all its requirements.
  - c. Attendance to a pre-inspection meeting with the Owner, the Design Professional, and the Contractor at a predetermined location and time to coordinate specific structural components and systems of the threshold building that would require special inspection.
  - d. Procurement of all approved shop drawings, and other pertinent documents from the Owner related to the special inspection services involved.
  - e. Coordination of the special inspection work and cooperation with the Contractor while refraining from dictating and running the job for the Contractor.
  - f. Verification that the Contractor and its subcontractors involved in providing structural work that requires special inspection, maintain appropriate methods and quality-control procedures, and review the completeness and adequacy of those procedures to perform their specific Work.
  - g. Interpretation of inspection results and stating in each report whether inspected work complies with or deviates from the Contract Documents.
  - h. Prompt notification of the Design Professional and the Contractor of any irregularities, deficiencies, and nonconformance observed in the work during a particular observation. Include portion of construction performed without inspection and/or not capable of being inspected in place.
  - i. Reinspection and recertification to correct work as required.
  - j. Submission of a certified written report of each inspection to the Design Professional with copy to the Contractor and to the Enforcing Agency having jurisdiction.
  - k. Submission of a final report of special inspections at Substantial Completion, which includes a list of unresolved deficiencies.
3. The Threshold Inspector shall not be responsible for the following:
- a. Make any design decisions and interpretations of the contract documents.
  - b. Acceptance or denial of proposed alternates by the Contractor.
  - c. Direct the Contractor's work
  - d. Construction means and methods.
  - e. Inspection of building components not related to the structural integrity and durability of the structure.
  - f. Inspection of safety provisions related to OSHA requirements or other safety standards.
4. It is not the intent of this special inspection plan for the Threshold Inspector to be present in the site at "all times". However, the intent is to be present for "appropriate length of time" necessary to ascertain that proper procedures and practices are observed to assure that work is being done in conformance with the design intent of the contract documents.
5. Upon completion of the special inspection services and prior to issuance of the Certificate of Occupancy, the Threshold Inspector shall submit a signed and sealed statement to the Enforcing Agency, the Owner, and the Design Professional, stating that the part of the project under such inspection responsibilities has been constructed in accordance with the official contract documents per Section 553.79(7)a of the Florida Statutes.

#### **D. SPECIAL INSPECTION REPORT REQUIREMENTS**

1. Prepare a daily detailed written record of inspections. Such report shall include the following:
  - a. Date inspection was conducted.
  - b. Description of the work inspected including the presence and activities of the Testing Agency as applicable.
  - c. Any changes in work sequence or materials and unusual circumstances affecting performance of work.
  - d. Documentation of changes made in the field and any new or recurring deficiencies.
  - e. Identification of Threshold Inspector conducting the inspection and the Testing Agency conducting the testing as applicable.
  - f. Date inspection results were transmitted to the Design Professional.
2. Keep a copy of the daily log at the project site that summarizes all inspections made.
3. Submit inspection reports on a weekly basis under a cover letter signed and sealed by the Threshold Inspector.

#### **E. SPECIAL INSPECTION SERVICES**

1. General: The special inspection services listed herein are outlined as the minimum required and shall not be limited to such. Furthermore, it shall be supplemented by any special requirements as that may be deemed necessary during the course of the work. The Contractor (and its subcontractors) performance and capability can affect the extent and duration of the special inspection involvement in the project.
2. Site Construction:
  - a. Field observations associated with the foundation system installation.
  - b. Backfill and compaction operations.
  - c. Slab-on-grade installation.
  - d. Consultation on on-site problems encountered related to earthwork, foundation and site concreting.
3. Cast-in-Place Concrete:
  - a. Mild Steel reinforcement placement including size, quantity, spacing, bar supports and chairs, clearances, splices, and any special coating requirements.
  - b. Post-tensioning steel placement including general layout of tendons, spacing, size, profiles, sheathing, grease caps, stressing, anchorages, support bar layout, observe elongation logs, submission of PT elongations for approval of PT engineer, observe cutting of PT tails after PT engineer approvals of such.
  - c. Shoring and reshoring installation.
  - d. Proper location of control and construction joints, pour strips, embedded items, anchors, openings, etc.
  - e. Concrete placement procedures in accordance with generally acceptable standards and practices.
  - f. Observation of concrete testing and curing procedures.
4. Precast Concrete:
  - a. Plant visit to observe fabrication including quality control and testing procedures.

- b. Observation of precast erection at site including inspection of precast pieces for any potential structural damage prior to erection.
  - c. Field-assembled connections including bearing pad setting, bolt and embed plate installation, welding, and required testing of precast connections.
  - d. Precast penetrations and fenestrations in accordance with documents.
  - e. Fabrication and erection tolerances.
  - f. Serviceability requirements including camber, bowing, deflection and headroom clearance limits.
  - g. Acceptability of completed precast connections.
5. Masonry:
- a. Masonry installation including techniques and workmanship
  - b. Mortar bedding, grouting, and cleanout areas.
  - c. Joint reinforcement, embedded inserts, and anchors.
  - d. Special inspections required per code and/or specifications
6. Structural Steel:
- a. Structural steel grade, size, straightness and required finish.
  - b. Bolted and welded connection including setting per shop drawings and special inspections that are required per specifications.

#### **F. RELATED RESPONSIBILITIES BY OTHERS**

1. Owner
  - a. Arrange for all necessary contact documents including geotechnical report, material test reports, and approved shop drawings to be furnished to the Threshold Inspector in a timely manner during the progress of the work.
  - b. Retain a qualified Geotechnical Consultant for earthwork and foundation work quality assurance and testing.
  - c. Retain a qualified Testing Agency for material testing and quality assurance beyond those covered by the Geotechnical Consultant.
  - d. Ensure that the Contractor provides the Threshold Inspector signed and sealed documents of all work under the Contractor's responsibility but not limited to the shoring and reshoring plans and the precast erection sequencing and procedures.
2. Contractor
  - a. Cooperate, assist, and provide free access to the Threshold Inspector at all times in performing the special inspection services as specified herein.
  - b. Advise the Threshold Inspector in a timely fashion of construction schedules and planned operations to assure proper and timely observation and inspection of items specified herein.
  - c. Submit a request to and obtain formal approval from the Design Professional for any deviations to the contract documents prior to commencing such work. The Contractor shall be solely responsible for correcting any installed unauthorized deviations.
  - d. Provide the Threshold Inspector with appropriate office facilities at the construction site including the following minimum items: desk, chair, desk lamp, plan table, plan rack, filing cabinet, telephone, utilities, air conditioning, and janitorial services.

- e. Provide signed and sealed drawings for documents under the Contractor's responsibility but not limited to the shoring and re-shoring plans and the precast erection sequencing and procedures.

