UNIVERSAL ENGINEERING SCIENCES
Consultants In: Geotechnical Engineering • Environmental Sciences
Geophysical Services • Construction Materials Testing • Threshold Inspection
Building Inspection • Plan Review • Building Code Administration

LOCATIONS:
- Atlanta
- Daytona Beach
- DC Metro
- Fort Myers
- Fort Pierce
- Gainesville
- Jacksonville
- Miami
- Ocala
- Orlando (Headquarters)
- Palm Coast
- Panama City
- Pensacola
- Rockledge
- Sarasota
- St. Petersburg
- Tampa
- Tifton
- West Palm Beach

February 14, 2022

City of Lake City
205 N. Marion Ave.
Lake City, FL 32055

Threshold Inspection Services Commencement
Marriott Courtyard
3004 W US HWY 90, Lake City, FL
Project No.: 0215.2200013.0000 Report No.: 1934915

To Whom It May Concern:

Universal Engineering Sciences, LLC (UES) has been retained by Oasis Lake City, LLC to provide threshold inspection services for the above referenced project. All inspections are performed to meet the requirements of the Threshold Inspection Plan and the requirements of the Florida Statutes. The Special Inspector along with his duly authorized representatives will perform the necessary inspections.

In accordance with Florida Board of Professional Engineers Rule 61 G125-35.004, the Special Inspector certifies that he is competent to provide engineering services for this specific type of structure.

Please contact us if you have any questions or desire additional information.

Sincerely,

Keith L. Butts, P.E.
Regional Manager
Florida Registration No. 53986

THOMAS SPUTO
Digitally signed by THOMAS SPUTO
Date: 2022.02.16 13:32:37 -05'00'

Thomas Sputo, Ph.D., P.E.
FL Registration No. 39142
Special Inspector No. 1037

Attachment: Threshold Plan

cc:
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tgray@gray-construction.com
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Sputo and Lammert Engineering, LLC

This item has been electronically signed and sealed by Thomas Sputo, P.E. (FL PE 39142) on 16 February 2022. Printed copies of this document are not considered signed and sealed. This digital signature must be verified on any electronic copies. Sputo and Lammert Engineering, LLC, 1731 NW 6th St, Suite D, Gainesville FL 32609 (FL CA 6855)

THOMAS SPUTO LICENSE No. 39142 STATE OF FLORIDA PROFESSIONAL ENGINEER

THRESHOLD INSPECTION
SPECIAL INSPECTOR'S INSPECTION PLAN

PROJECT: Courtyard Inn, Lake County
ARCHITECT: **JCER Design Consultants**
ENGINEER: ASE Engineering Services, Inc.

STRUCTURAL THRESHOLD INSPECTION PLAN

The Threshold Inspector shall be responsible for verifying that the structure is built in conformance with the Contract Documents and that shoring is provided and installed in conformance with shoring plans provided by the registered engineer hired by the contractor. Duration and frequency of visits shall be sufficient for the Inspector to state at the completion of the project that the structure has been built in accordance with the Contract Documents.

Particular attention should be paid to the following items:

A. FOUNDATIIONS AND SOIL PREPARATION

1. Inspect excavation/ subsurface preparation
2. Review density test results as required
3. Review soil reports/ boring logs

B. FOOTINGS

1. Inspect rebar before pour:

    a. Quality
    b. Size
    c. Grade
    d. Placement
    e. Concrete cover
    f. Verify reinforcing is clean before pour

2. Visually inspect dowels and/ or anchor bolts for columns and walls above before pour:

    a. Quantity
    b. Size
    c. Length
    d. Location
    e. Lap length/embedment length

3. Inspect provisions for utilities/conduit/sleeves. etc. before pour. Verify additional reinforcing around such items as required.

4. Inspect joints before pour (expansion, control, construction joints):
    a. Approved location
    b. Keyed and doweled as required
    c. Waterstops as required

C. COLUMNS AND WALLS

1. Visually inspect rebar before pour:

    a. Proper configuration and orientation
    b. Anchorage to dowels
    c. Quantity
    d. Size
    e. Lap length
    f. Concrete cover
    g. Embedded items (plates, bolts, inserts, etc.) properly placed and located.

2. Inspect dowels, columns and walls above before pour:

    a. Quantity
    b. Anchorage to dowels
    c. Quantity
    d. Size
    e. Lap length/ embedment length

3. Inspect provisions for utilities/conduit/sleeves, etc. before pour. Verify additional reinforcing around such items as required.

4. Inspect joints before pour (expansion, control, construction joints):

    a. Approved location
    b. Keyed and doweled as required
    c. Waterstops as required

D. MASONRY

1. Inspect during construction:

    a. Horizontal and vertical reinforcement placement, dovetails, inserts, embedments
    b. Horizontal and vertical reinforcement lap lengths
    c. Grouting of cells
    d. Workmanship
    e. Review test results and periodically inspect testing of mortar, grout
    f. Wall tie backs, properly anchored and spaced

E. CONCRETE

1. Inspect rebar before pour:

    a. Quantity
    b. Size
    c. Spacing/location/height of chairs
    d. Bar supports and ties
    e. Lap length
    f. Hook or bent bars
    g. Embedded items (plates, bolts, inserts, etc.) properly placed and located

2. Inspect dowels:

    a. Quantity
    b. Size
    c. Length
    d. Location
    e. Lap length/ embedment length

3. Inspect provision for utilities/ conduit/sleeves, etc. before pour. Verify additional reinforcing around such items as required.

4. Inspect joints before pour:

    a. Approved location
    b. Keyed and doweled as required

F. CONCRETE TESTING (ALL POURS)

1. Review test results and periodically inspect testing for proper slums, compression tests, etc. As required

2. Inspect placement procedures; verify conformance to project specifications and ACI 301.

3. Instruct contractor that no water is to be added after testing, unless approved by the engineer of record.

G. PRECAST CONCRETE SLABS

1. Verify proper on-site storage

    a. Stored off grade
    b. Proper drainage

2. Inspect for level bearing prior to placement of slabs.

3. Verify correct bearing at ends and sides of slabs

    a. Correct bearing at ends and sides of slabs
    b. Correct grouting of joints

4. Verify placement of reinforcing for attachment to walls, beams, etc. and of reinforcement for topping slab prior to concrete placement. See section E above for additional requirements.

5. Verify that slab units are properly wetted down prior to topping placement.

6. Verify field cut or cored penetrations in slab units.

    a. Only those shown on approved shop drawings are allowed
    b. Locations of cuts and/ or corings
    c. No over-cutting

H. FORMS AND SHORING INCLUDING RESHORING (ALL POURS)

1. Visually inspect formwork and shoring before construction loads are applied:

    a. Size
    b. Location
    c. Spacing
    d. Plumbness
    e. Suitability
    f. Quality condition and bearing of forming members on shores
    g. Bracing

2. Inspect provisions for any special loadings during construction as shown on contract documents.

3. Inspect for removal of all debris before pour.

I. Steel Beams:

1. Verify beam size and steel grade.

2. Verify size, type, washers and method of tightening for high strength bolts.

3. Visually verify that beam connections are completed and bolts are installed and tightened.

4. Review proper welding of welded beam connections.

5. Verify that required camber in steel beams comply with the Contract Documents.

6. Review steel members for possible damage in shipping; check workmanship and piece marking.

J. Steel Columns:

1. Verify column size and steel grade.

2. Verify size, type, washers and method of tightening for high strength bolts.

3. Visually verify that column connections are completed and bolts are installed and tightened.

4. Review proper welding of welded column connections

K. Review steel members for possible damage in shipping; check workmanship and piece marking.

L. Verify the sizes and dimensions of the base plates and cap plates

M. PRE-ENGINEERED METAL STUDS

a. Verification of design by Florida registered professional engineer.

b. Verify correct on-site storage prior to erection.

c. Verification that components are in accordance with all requirements prior to erection.

d. Verification that proper bracing, bridging, and blocking have been provided.

e. Verification of all connections to include size, number, type, and galvanizing of all washers, plates, clips, nails, welds, screws, and bolts.

N. ROOF

a. Proper on-site storage of roof deck material.
b. Correct attachment of deck to building structure

O. MISCELLANEOUS

a. Inspect for possible problems after pour:

i. Cracks
ii. Deflection
iii. Indications of excessive settlement
iv. Overload due to storage of materials
v. Honey combing/ exposed reinforcing steel/ rust spots
vi. Verify correct dimensions of concrete framing members such as beam and slab depths, column and wall thicknesses, etc.

b. Maintain a daily log and correction list listing areas of discrepancies and status of repair.

c. Provide reports to various governing agencies and to owner as required

P. RESPONSIBILITY

The special inspector does not relieve the Contractor's contractual or statutory obligations. The contractor has the sole responsibility for any deviations from the Official Contract Documents. The Special inspector will not replace the quality control personnel of the Contractors.

The above list is not intended to be all-inclusive. The Threshold Inspector shall use his professional judgment and his knowledge of the job site conditions and the contractor's performance to decide what other items require extra attention.

ASE Engineering Service, Inc.

Minsheng Xie, P.E., Ph.D.
Florida P.E. Number: 51161
Special Inspector Number: 1142