



January 27, 2025

Mr. Brian Maenner
Vice President of Development
Intrinsic Development
3622 Endeavor Avenue
Columbia, Missouri 65201

RE: Special Inspection Report No. 1
Home2 Suites by Hilton
251 N. Alura Way
Lee' Summit, Missouri
Report Period: October 27, 2024 to December 28, 2024
Permit No.: PRCOM20241886
UES Project No.: A23129.00089.002
Legacy Project No: J044702.03

Dear Mr. Maenner:

This letter with attachments will constitute our Special Inspection transmittal for the above referenced project. Representatives of UES have provided field observation and testing services for site development and engineered fill during the report period. Our services have been provided on a part-time basis as scheduled by representatives of Advanced Excavation, LLC. The compliance of materials or work not observed by our personnel is not addressed, or implied, by this or any previous report.

Summary of Activities

Site Development

Following the removal of the vegetation, the subgrades for the building pad and parking lot were evaluated on October 29. The exposed grades were observed with respect to stability and moisture content prior to fill placement. The exposed grades were also proofrolled with a fully-loaded off-road dump truck to aid in evaluating the stability of the underlying soils. An approximately 1,600 square foot area within the parking lot was dewatered and construction debris removed to a depth of approximately 3 to 4 feet. The undercut area was backfilled with engineered fill.

Engineered Fill

Field density tests and visual observations were performed in engineered fill placed for the parking lot and building pad between October 29 and November 26. The engineered fill consisted primarily of clays except within the top two feet of the building pad. On-site crushed limestone was placed as low-volume-change material within the top two feet of the building pad. The fill was placed in approximately 8- to 9-inch lifts and compacted with a self-propelled sheepsfoot roller or vibratory smooth drum roller. To evaluate the field density test results of the low-volume-change material, samples of the crushed rock was obtained for moisture-density (standard Proctor) relationship and gradation testing. Test results of the on-site clays were evaluated using

existing moisture-density (standard Proctor) relationship tests. Results of the standard Proctor, gradation tests, and field density tests are enclosed.

Status of Compliance

The specific items discussed above in this report appeared to be in general compliance with the contract documents.

Closure

The results of our field observations and testing were reported to authorized personnel during our site visits. If you have any questions regarding this report, or if we may be of further service, please contact us.

Respectfully submitted,

UES



Peter F. Brull, P.E.
Senior Engineer



Steve Damron
CMT Department Manager

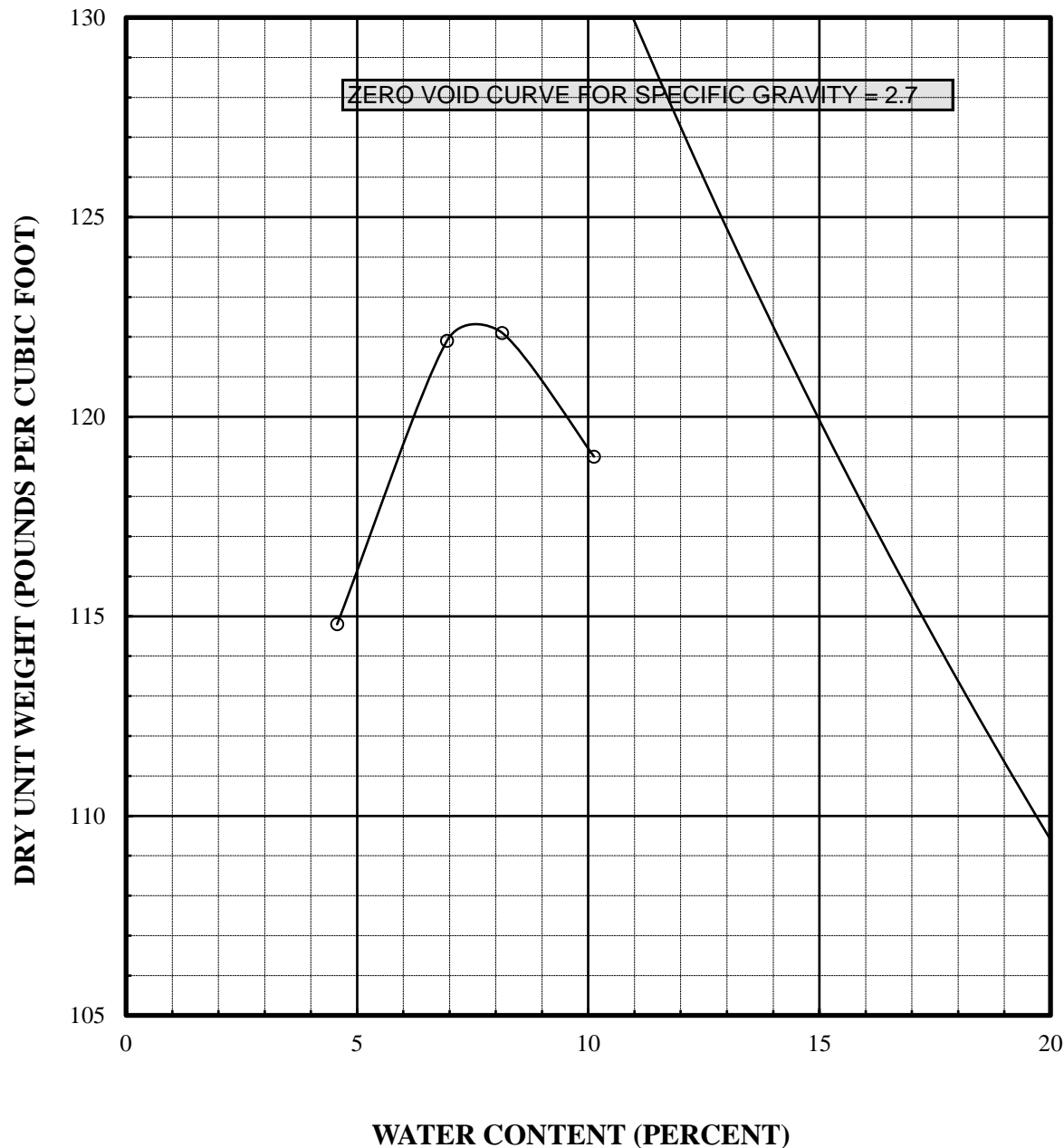
Attachments: Proctor Test Results
Gradation Test Results
Field Density Test Results

cc: Mr. Joe Frogge – City of Lee's Summit
Mr. Aaron Addis – Intrinsic Development
Mr. Earl Peterson – Intrinsic Development
Mr. AJ Dolph – Rosemann & Associates, PC
UES S.I. File

**Home2 Suites by Hilton
Variance/Discrepancy List**

NOTE: Items resolved during the report period are shaded

| Variance Number | Date Opened | Date Closed | Description |
|--------------------|----------------|----------------|-------------|
| - | | | |



PROJECT NAME

Home2Suites by Hilton

SPECIFICATIONS

Standard Proctor
ASTM D 698 Method A

PROCTOR TEST RESULTS

| | |
|------------------|-----------------------|
| Max. Dry Density | Optimum Water Content |
| 122.2 pcf | 7.5% |

ATTERBERG LIMITS (ASTM D-4318)

| | | |
|--------------|---------------|------------------|
| Liquid Limit | Plastic Limit | Plasticity Index |
| | | |

DESCRIPTION

Crushed Limestone

SAMPLE LOCATION

On-site stockpile



MOISTURE - DENSITY CURVE

| | | | |
|-------------|------------|-----------|------------|
| Job No. | J044702.03 | Test Date | 10/22/2024 |
| Sampled By | APS | Tested By | ADC |
| Sample Date | 10/18/2024 | Calc. By | ADC |
| Proctor No. | 4424 | Ch'd By | PFB |



Client: Intrinsic Development
Project: A23129.00089.002
Home2 Suites by Hilton J044702.03
Lee's Summit, MO

Field Density Test Results

Report Date: 10/29/2024

Area Being Filled: Building pad Line AC to A, 1.1 to 7 and parking lot at 20 to 60 feet north, 40 to 80 feet east

Description of Fill Material: (1) CLAY - brown with grey-brown, fat - (CH)

TABULATION OF FIELD DENSITY TEST RESULTS (ASTM D6938)

| Test No. | Test Location | Elevation (feet) +/- | Max. Dry Den. @ Optimum Moisture (pcf @ %) | In Place Dry Density (pcf) | In Place Moisture (%) | Probe Depth | Percent Compaction | Moisture Tolerance (-/+) | Min. Comp. Spec. (%) | Result |
|----------|--------------------------------|----------------------|--|----------------------------|-----------------------|-------------|--------------------|--------------------------|----------------------|--------|
| 1 | Building pad Grid AC.5/1.3 | 954.3 | 98.2@21.8 ⁽¹⁾ | 95.30 | 22.80 | 8" | 97.0 | 1.0/3.0 | 95 | Pass |
| 2 | Building pad Grid AC.5/1.8 | 954.3 | 98.2@21.8 ⁽¹⁾ | 94.90 | 21.60 | 8" | 96.6 | 1.0/3.0 | 95 | Pass |
| 3 | Building pad Grid AC.5/3.5 | 955.4 | 98.2@21.8 ⁽¹⁾ | 95.20 | 21.40 | 8" | 96.9 | 1.0/3.0 | 95 | Pass |
| 4 | Building pad Grid AC.5/4.2 | 955.8 | 98.2@21.8 ⁽¹⁾ | 96.70 | 21.70 | 8" | 98.5 | 1.0/3.0 | 95 | Pass |
| 5 | Parking lot 40' north 60' east | 952.4 | 98.2@21.8 ⁽¹⁾ | 102.90 | 21.00 | 8" | 104.8 | 1.0/3.0 | 95 | Pass |
| 6 | Parking lot 50' north 60' east | 953.0 | 98.2@21.8 ⁽¹⁾ | 98.80 | 20.80 | 8" | 100.6 | 1.0/3.0 | 95 | Pass |
| 7 | Parking lot 40' north 50' east | 953.5 | 98.2@21.8 ⁽¹⁾ | 96.70 | 20.80 | 8" | 98.5 | 1.0/3.0 | 95 | Pass |
| 8 | Parking lot 30' north 70' east | 954.0 | 98.2@21.8 ⁽¹⁾ | 97.30 | 20.90 | 8" | 99.1 | 1.0/3.0 | 95 | Pass |

Remarks: Reference point (Tests #5 through #8): Building northeast corner
Finished grade = 956.0

UES Representative: Seth T. Littlestone

Report Date: 10/30/2024

Area Being Filled: Building pad at Grid A to AC, 7 to 18 and parking lot at 20 to 60 feet north, 40 to 80 feet east

Description of Fill Material: (1) CLAY - brown with grey-brown, fat - (CH)

TABULATION OF FIELD DENSITY TEST RESULTS (ASTM D6938)

| Test No. | Test Location | Elevation (feet) +/- | Max. Dry Den. @ Optimum Moisture (pcf @ %) | In Place Dry Density (pcf) | In Place Moisture (%) | Probe Depth | Percent Compaction | Moisture Tolerance (-/+) | Min. Comp. Spec. (%) | Result |
|----------|--------------------------------|----------------------|--|----------------------------|-----------------------|-------------|--------------------|--------------------------|----------------------|--------|
| 1 | Parking lot 45' north 60' east | 954.3 | 98.2@21.8 ⁽¹⁾ | 100.70 | 21.20 | 8" | 102.5 | 1.0/3.0 | 95 | Pass |
| 2 | Parking lot 50' north 75' east | 953 | 98.2@21.8 ⁽¹⁾ | 100.50 | 22.00 | 8" | 102.3 | 1.0/3.0 | 95 | Pass |
| 3 | Green space Grid AC.5/9.5 | 952.4 | 98.2@21.8 ⁽¹⁾ | 96.60 | 21.90 | 8" | 98.4 | 1.0/3.0 | 95 | Pass |
| 4 | Green space Grid AC.5/10.3 | 953.0 | 98.2@21.8 ⁽¹⁾ | 97.50 | 22.50 | 8" | 99.3 | 1.0/3.0 | 95 | Pass |
| 5 | Green space Grid AC.5/14 | 953.6 | 98.2@21.8 ⁽¹⁾ | 97.20 | 21.60 | 8" | 99.0 | 1.0/3.0 | 95 | Pass |
| 6 | Green space Grid AC.5/13 | 954.2 | 98.2@21.8 ⁽¹⁾ | 97.70 | 21.80 | 8" | 99.5 | 1.0/3.0 | 95 | Pass |

Remarks: Reference point (Tests #1 and #2): Building pad northeast corner
Finished grade = 956.0

UES Representative: Seth T. Littlestone

Report Date: 11/25/2024

Report Date: 11/25/2024

Area Being Filled: Building pad

Description of Fill Material: (1) 4424: Crushed limestone

TABULATION OF FIELD DENSITY TEST RESULTS (ASTM D6938)

| Test No. | Test Location | Elevation (feet) +/- | Max. Dry Den. @ Optimum Moisture (pcf @ %) | In Place Dry Density (pcf) | In Place Moisture (%) | Probe Depth | Percent Compaction | Moisture Tolerance (-/+) | Min. Comp. Spec. (%) | Result |
|----------|----------------------------|----------------------|--|----------------------------|-----------------------|-------------|--------------------|--------------------------|----------------------|--------|
| 1 | Building pad Grid AC.5/2.5 | 956.5 | 122.2@7.5 ⁽¹⁾ | 117.90 | 6.10 | 8" | 96.5 | --/-- | 95 | Pass |
| 2 | Building pad Grid E.5/2.5 | 956.5 | 122.2@7.5 ⁽¹⁾ | 116.60 | 5.70 | 8" | 95.4 | --/-- | 95 | Pass |
| 3 | Building pad Grid E.5/5.5 | 956.5 | 122.2@7.5 ⁽¹⁾ | 115.60 | 5.70 | 8" | 94.6 | --/-- | 95 | Pass |
| 4 | Building pad Grid A.5/5.5 | 956.5 | 122.2@7.5 ⁽¹⁾ | 121.40 | 5.10 | 8" | 99.3 | --/-- | 95 | Pass |
| 5 | Building pad Grid A.5/10.5 | 956.5 | 122.2@7.5 ⁽¹⁾ | 123.50 | 5.20 | 8" | 101.1 | --/-- | 95 | Pass |
| 6 | Building pad Grid E.5/10.5 | 956.5 | 122.2@7.5 ⁽¹⁾ | 121.60 | 5.10 | 8" | 99.5 | --/-- | 95 | Pass |
| 7 | Building pad Grid E.5/16.5 | 956.5 | 122.2@7.5 ⁽¹⁾ | 124.50 | 5.40 | 8" | 101.9 | --/-- | 95 | Pass |
| 8 | Building pad Grid A.5/16.5 | 956.5 | 122.2@7.5 ⁽¹⁾ | 121.00 | 5.60 | 8" | 99.0 | --/-- | 95 | Pass |

Remarks: Finished grade = 958.0 (estimated)

UES Representative: Seth T. Littlestone

Report Date: 11/26/2024

Area Being Filled: Building pad

Description of Fill Material: (1) 4424: Crushed limestone

TABULATION OF FIELD DENSITY TEST RESULTS (ASTM D6938)

| Test No. | Test Location | Elevation (feet) +/- | Max. Dry Den. @ Optimum Moisture (pcf @ %) | In Place Dry Density (pcf) | In Place Moisture (%) | Probe Depth | Percent Compaction | Moisture Tolerance (-/+) | Min. Comp. Spec. (%) | Result |
|----------|---------------------------------|----------------------|--|----------------------------|-----------------------|-------------|--------------------|--------------------------|----------------------|--------|
| 1 | Building pad Grid AC.5/2.5 AC/A | 957.3 | 122.2@7.5 ⁽¹⁾ | 118.60 | 5.00 | 8" | 97.1 | --/-- | 95 | Pass |
| 2 | Building pad Grid E.5/2.5 E/F | 957.3 | 122.2@7.5 ⁽¹⁾ | 123.90 | 5.20 | 8" | 101.4 | --/-- | 95 | Pass |
| 3 | Building pad Grid E.5/5.5 E/F | 957.3 | 122.2@7.5 ⁽¹⁾ | 120.80 | 5.40 | 8" | 98.9 | --/-- | 95 | Pass |
| 4 | Building pad Grid A.5/5.5 A/B | 957.3 | 122.2@7.5 ⁽¹⁾ | 123.80 | 5.10 | 8" | 101.3 | --/-- | 95 | Pass |
| 5 | Building pad Grid A.5/10.5 A/B | 957.3 | 122.2@7.5 ⁽¹⁾ | 125.10 | 4.90 | 8" | 102.4 | --/-- | 95 | Pass |
| 6 | Building pad Grid E.5/10.5 E/F | 957.3 | 122.2@7.5 ⁽¹⁾ | 117.30 | 4.50 | 8" | 96.0 | --/-- | 95 | Pass |
| 7 | Building pad Grid E.5/16.5 E/F | 957.3 | 122.2@7.5 ⁽¹⁾ | 118.70 | 5.80 | 8" | 97.1 | --/-- | 95 | Pass |
| 8 | Building pad Grid A.5/16.5 A/B | 957.3 | 122.2@7.5 ⁽¹⁾ | 118.90 | 5.80 | 8" | 97.3 | --/-- | 95 | Pass |
| 9 | Building pad Grid AC.5/2.5 AC/A | 958.0 | 122.2@7.5 ⁽¹⁾ | 117.40 | 5.30 | 8" | 96.1 | --/-- | 95 | Pass |
| 10 | Building pad Grid E.5/2.5 E/F | 958.0 | 122.2@7.5 ⁽¹⁾ | 120.60 | 5.60 | 8" | 98.7 | --/-- | 95 | Pass |
| 11 | Building pad Grid E.5/5.5 E/F | 958.0 | 122.2@7.5 ⁽¹⁾ | 126.10 | 5.20 | 8" | 103.2 | --/-- | 95 | Pass |
| 12 | Building pad Grid A.5/5.5 A/B | 958.0 | 122.2@7.5 ⁽¹⁾ | 124.30 | 4.50 | 8" | 101.7 | --/-- | 95 | Pass |
| 13 | Building pad Grid A.5/10.5 A/B | 958.0 | 122.2@7.5 ⁽¹⁾ | 126.10 | 5.20 | 8" | 103.2 | --/-- | 95 | Pass |

Report Date: 11/26/2024

Area Being Filled: Building pad

Description of Fill Material: (1) 4424: Crushed limestone

TABULATION OF FIELD DENSITY TEST RESULTS (ASTM D6938)

| Test No. | Test Location | Elevation (feet) -/+ | Max. Dry Den. @ Optimum Moisture (pcf @ %) | In Place Dry Density (pcf) | In Place Moisture (%) | Probe Depth | Percent Compaction | Moisture Tolerance (-/+) | Min. Comp. Spec. (%) | Result |
|----------|--------------------------------|----------------------|--|----------------------------|-----------------------|-------------|--------------------|--------------------------|----------------------|--------|
| 14 | Building pad Grid E.5/10.5 E/F | 958.0 | 122.2@7.5 ⁽¹⁾ | 118.90 | 4.90 | 8" | 97.3 | --/-- | 95 | Pass |
| 15 | Building pad Grid E.5/16.5 E/F | 958.0 | 122.2@7.5 ⁽¹⁾ | 126.10 | 4.60 | 8" | 103.2 | --/-- | 95 | Pass |
| 16 | Building pad Grid A.5/16.5 A/B | 958.0 | 122.2@7.5 ⁽¹⁾ | 119.50 | 5.30 | 8" | 97.8 | --/-- | 95 | Pass |

Remarks: Finished grade = 958.0

UES Representative: Seth T. Littlestone