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Summary:

During the month of July on the Oklahoma Capitol Exterior Restoration project we have made significant progress on the completion of the north wing restoration. With the final completion of the north wing taking place at the beginning of August, the south wing has seen an increased amount of scaffolding activity. All scaffold components that have been dismantled from the north wing are in the process of being erected on the south side of the Capitol. The restoration of the south wing east elevation has begun with cleaning at the gutter level and raking from the top of the elevation down. Once raking activities are complete, our team will complete a joint masonry repair walk to determine if additional repairs are to be completed. Further, on the south wing south elevation, otherwise known as the “South Portico” section, scaffold erection has begun. Due to the large cavity space below the steps of the South Portico, the scaffolding is being erected on large beams that span columns beneath the stairs. This section of scaffolding is scheduled to be completely erected by mid-August.

Furthermore, the work taking place on the north and south wing of the building, work on our largest elevation of scaffolding thus far, Delta, is progressing. Due to the large size of the Delta elevation, we have split the elevation into two parts, Delta Phase One (west) and Delta Phase Two (east). Work on Delta Phase One is in the process of being completed. All masonry restoration items have been completed as well as exterior window restoration. Final window sealants and spray testing have been completed on Delta Phase One as well. This section of scaffolding is currently scheduled to be dismantled ahead of schedule in mid-August, with Phase Two being dismantled at the end of September following the completion of the window restoration activities. Both sections of scaffolding will then be moved to the east wing south elevation, Foxtrot. Lastly, on our Echo elevation, masonry cleaning activities are in progress and window pre-repairs are beginning. Once window restoration activities are completed on Delta Phase Two, they will continue onto Echo.

In addition to the work that we have taking place on the scaffolding, over the course of the next few weeks our exterior team will begin planning for work on several remaining exterior restoration scope items around the Capitol. These activities include: restoration of the ballustrades, restoration and foundation repairs to the battlements, repairs to the granite steps, replacement of the retaining walls and waterproofing replacement and repairs around the exterior of the Capitol.
Key Activities:

- Bravo exterior window restoration complete
- Bravo masonry restoration complete
- Bravo scaffold removal complete
- Charlie exterior window restoration complete
- Charlie masonry restoration complete
- Charlie scaffold removal complete
- Delta masonry repairs complete
- Delta cleaning complete
- Delta Phase 1 (west half) window install complete
- Delta Phase II (east half) window install in progress
- Delta copper gutter install in progress
- Delta parapet repairs in progress
- Delta tarps removed
- Echo masonry cleaning in progress
- Echo window pre-repairs in progress
- Golf scaffold erection complete
- Golf masonry raking in progress
- Hotel scaffold erection in progress
Safety:

The safety of our workforce and the general public during the course of construction is the most important task that we must deliver. To that end, every craftsmen involved with the project receives a detailed project orientation, and prior to performing any task, the teams develop detailed task specific work plans. These work plans are often called Job Site Analysis (JSA) and assist project teams with analyzing different hazards associated with each work activity prior to beginning work.

### Safety Data and Metrics

<table>
<thead>
<tr>
<th>Description</th>
<th>Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orientations Performed through 07.31.17</td>
<td>309</td>
</tr>
<tr>
<td>First Aid Incidents</td>
<td>0</td>
</tr>
<tr>
<td>OSHA Recordable Incidents</td>
<td>0</td>
</tr>
<tr>
<td>Trade Partner Incidents</td>
<td>0</td>
</tr>
<tr>
<td>Total Man-Hours for the month of July (hrs.)</td>
<td>4,136</td>
</tr>
<tr>
<td>Total Project Man-Hours (hrs.)</td>
<td>58,310</td>
</tr>
</tbody>
</table>
A “Scaffold Modification Permit” system has been put into place on our Exterior Capitol Restoration Project. The scaffolding on-site is a major component of the project. Due to the nature of our work, some trades require close access to the Capitol’s facade. In order to maintain a safe work environment, if any component of the scaffold has to be adjusted in order to complete work, the above permit must be filled out and completed prior to any scaffold modification’s taking place. Once the scaffold component has been restored to its original state, that specific area is reviewed and signed off by Mark 1 Restoration who is in charge of building the scaffold and ensuring it provides a safe work area.
Window Restoration Progress:

The following pictures show progress of the window restoration process at ReView’s off-site facility. Once these components are fully restored off-site, they will be shipped back to the jobsite and prepared for final installation.
Progress Photos & Field Reports

The photos and field reports attached in the subsequent pages represent progress photos taken during the month of July and reports on recently completed work for the Oklahoma State Capitol Exterior Restoration project.

Drone Footage

June Drone Footage > Click Here
https://vimeo.com/222121078
FIELD OBSERVATION REPORT

REPORT NO: 40
DATE: 7/5/2017

TIME: 10:00 AM
DAY OF WEEK: Wednesday

OWNER: OMES
TEMP. RANGE: 85° F

PROJECT: Oklahoma Capitol Restoration - Exterior Rehabilitation
CAP PROJECT NO: 15039DB
JE DUNN PROJECT NO: 15025800
ADG PROJECT NO: 15-007
TREATOR PROJECT NO: HP 15.007.00B
ZFI PROJECT NO: 15071-01
ALVINE PROJECT NO: 2014-4286
SRB PROJECT NO: 114801

WEATHER: ☑ Clear ☐ Overcast ☐ Rain ☐ Snow ☐ Cold
☐ Warm ☐ Hot ☐ Foggy ☐ Windy ☐ Ice ☐ Other _________

SITE CONDITIONS: ☑ Clear ☐ Dusty ☐ Muddy ☐ Other ______________________

PERSONS CONTACTED: Mark Maska, Superintendent - JE Dunn Construction
Landon Heaton, Project Engineer - JE Dunn Construction

WORK OBSERVED:
The following was observed during this site visit:
1. Final pointing mortar work progressing on north elevation of dome platform.
2. Window frame painting progressing on east elevation of north wing (Charlie).
3. Stone repair work progressing on north elevation of east wing (Delta).
4. Final pointing mortar work progressing on north elevation of east wing (Delta).
5. Window frame abatement progressing on east elevation of east wing (Echo).
6. Stone cleaning progressing on east elevation of east wing (Echo).
7. Scaffold installation progressing on east elevation of south wing (Golf).

ITEMS DISCUSSED:
None

ACTION REQUIRED:
None

ITEMS TO VERIFY:
None

REMARKS:
None

OBSERVED BY: Peter Breninger (ADG)
Final pointing mortar work progressing on north elevation of dome platform
Window frame painting progressing on east elevation of north wing (Charlie)

Stitch pinning in progress on north elevation of east wing (Delta)
Stone patch in progress on north elevation of east wing (Delta)

Final pointing mortar work in progress on north elevation of east wing (Delta)
Window frame abatement in progress on east elevation of east wing (Echo)

Stone cleaning in progress on east elevation of east wing (Echo)
Scaffold installation in progress on east elevation of south wing (Golf)
FIELD OBSERVATION REPORT

REPORT NO: 41 DATE: 7/11/2017
TIME: 11:15 AM DAY OF WEEK: Tuesday
OWNER: OMES TEMP. RANGE: 90° F

PROJECT: Oklahoma Capitol Restoration - Exterior Rehabilitation
CAP PROJECT NO: 15039DB
JE DUNN PROJECT NO: 15025800
ADG PROJECT NO: 15-007
TREANOR PROJECT NO: HP 15.007.00B
ZFI PROJECT NO: 15071-01
ALVINE PROJECT NO: 2014-4286
SRB PROJECT NO: 114801

WEATHER: ☑ Clear ☐ Overcast ☐ Rain ☐ Snow ☐ Cold
☑ Warm ☐ Hot ☐ Foggy ☐ Windy ☐ Ice ☐ Other _________

SITE CONDITIONS: ☑ Clear ☐ Dusty ☐ Muddy ☐ Other ________________

PERSONS CONTACTED: Mark Maska, Superintendent - JE Dunn Construction
Landon Heaton, Project Engineer - JE Dunn Construction
Lindsey Ross, Project Engineer - JE Dunn Construction
Lynnsee Boyse, Project Manager - JE Dunn Construction

WORK OBSERVED:
The following was observed during this site visit:
1. Scaffold removal progressing on north elevation of north wing (Bravo).
2. Scaffold tarp removed from east elevation of north wing (Charlie).
3. Final cleaning progressing on east elevation of north wing (Charlie).
4. Stone repair work progressing on north elevation of dome platform.
5. Stone repair work progressing on north elevation of east wing (Delta).
6. Final pointing mortar work progressing on north elevation of east wing (Delta).
7. Sealant work progressing on north elevation of east wing (Delta).
8. Stone cleaning progressing on east elevation of east wing (Echo).
9. Ducts in place for air handler on east elevation of east wing (Echo).
10. Scaffold in place on east elevation of south wing (Golf).

ITEMS DISCUSSED:
The following items were discussed during this site visit:
1. The OAC Meeting occurred prior to the site visit in the jobsite trailers. Refer to OAC Meeting Minutes dated July 11, 2017, for items discussed during the meeting.
2. The light well wall coating mockup was reviewed with the State at the north elevation west wing (Lima) light well. Trait Thompson, Jason Cady, Matthew Radcliffe, Lindsey Ross, Lynnsee Boyse, Mark Maska, Peter Breninger and Mike Thompson were in attendance. The light well wall coating, without the leveling compound, was selected by those in attendance.
3. The Interior/Exterior Coordination Meeting occurred prior to the site visit in Room 104. Refer to Interior/Exterior Coordination Meeting dated July 11, 2017, for items discussed during the meeting.

**ACTION REQUIRED:**
None

**ITEMS TO VERIFY:**
None

**REMARKS:**
None

**OBSERVED BY:** Peter Breninger (ADG)

**COPIES TO:** Heath Glenn (JE Dunn), Josh Martin (JE Dunn), Landon Heaton (JE Dunn), Lindsey Ross (JE Dunn), Lynnsee Boyse (JE Dunn), Mark Maska (JE Dunn), JC Witcher (ADG), Robert Meek (ADG), Amelia McKinney (TreonorHL), Julia Manglitz (TreonorHL), Todd Renyer (TreonorHL), Vance Kelley (TreonorHL), Mike Thompson (ZFI), Andy Wiese (Alvine), Ed Kongs (Alvine), Sam Haberman (Alvine), Steve Alvine (Alvine), Gary Noland (Smith Roberts Baldischwiler)

Scaffold removal in progress on north elevation of north wing (Bravo)
Scaffold tarp removed from east elevation of north wing (Charlie)

Final cleaning in progress on east elevation of north wing (Charlie)
Dutchman repair in progress on north elevation of dome platform

Stone patch in progress on north elevation of east wing (Delta)
Final pointing mortar work in progress on north elevation of east wing (Delta).

Sealant work in progress on north elevation of east wing (Delta)
Stone cleaning in progress on east elevation of east wing (Echo)

Ducts in place for air handler on east elevation of east wing (Echo)
Scaffold in place on east elevation of south wing (Golf)

Plywood in place at base of scaffold to protect stone pavers on east elevation of south wing (Golf)
Waterproofing in place on top of covered entry on east elevation of south wing (Golf)

Light well wall coating mockup #1 (elastomeric coating with leveling compound) on north wall of light well on north elevation of west wing (Lima)
Light well wall coating mockup #2 (elastomeric coating only) on north wall of light well on north elevation of west wing (Lima)
FIELD OBSERVATION REPORT

REPORT NO: 42  DATE: 7/18/2017
TIME: 10:15 AM  DAY OF WEEK: Tuesday
OWNER: OMES  TEMP. RANGE: 90° F

PROJECT: Oklahoma Capitol Restoration - Exterior Rehabilitation
CAP PROJECT NO: 15039DB
JE DUNN PROJECT NO: 15025800
ADG PROJECT NO: 15-007
TREANOR PROJECT NO: HP 15.007.00B
ZFI PROJECT NO: 15071-01
ALVINE PROJECT NO: 2014-4286
SRB PROJECT NO: 114801

WEATHER: ☑ Clear  ☐ Overcast  ☐ Rain  ☐ Snow  ☐ Cold
      ☑ Warm  ☐ Hot  ☐ Foggy  ☐ Windy  ☐ Ice  ☐ Other ________

SITE CONDITIONS: ☑ Clear  ☐ Dusty  ☐ Muddy  ☐ Other ______________________

PERSONS CONTACTED: Mark Maska, Superintendent - JE Dunn Construction
Landon Heaton, Project Engineer - JE Dunn Construction
Lindsey Ross, Project Engineer - JE Dunn Construction
Lynnsee Boyse, Project Manager - JE Dunn Construction

WORK OBSERVED:
The following was observed during this site visit:
1. Scaffold removal progressing on north elevation of north wing (Bravo).
2. Stone repair work progressing on north elevation of dome platform.
3. Final pointing mortar work progressing on backside of parapet on north elevation of east wing (Delta).
4. Stone cleaning progressing on east elevation of east wing (Echo).
5. Stone repair work progressing on east elevation of east wing (Echo).
6. Tarp installation progressing on east elevation of south wing (Golf).

ITEMS DISCUSSED:
None

ACTION REQUIRED:
None

ITEMS TO VERIFY:
None

REMARKS:
None
OBSERVED BY:  Peter Breninger (ADG)

COPIES TO:  Heath Glenn (JE Dunn), Josh Martin (JE Dunn), Landon Heaton (JE Dunn), Lindsey Ross (JE Dunn), Lynnsee Boyse (JE Dunn), Mark Maska (JE Dunn), JC Witcher (ADG), Robert Meek (ADG), Amelia McKinney (TreonorHL), Julia Manglitz (TreonorHL), Todd Renyer (TreonorHL), Vance Kelley (TreonorHL), Mike Thompson (ZFI), Andy Wiese (Alvine), Ed Kongs (Alvine), Sam Haberman (Alvine), Steve Alvine (Alvine), Gary Noland (Smith Roberts Baldischwiler)

Scaffold removal in progress on north elevation of north wing (Bravo)
Full stone replacement in progress on north elevation of dome platform

Final pointing mortar in progress on backside of parapet on north elevation of east wing (Delta)
Stone cleaning in progress on east elevation of east wing (Echo)

Dutchman repair in progress on east elevation of east wing (Echo)
Tarp installation in progress on east elevation of south wing (Golf)
FIELD OBSERVATION REPORT

REPORT NO: 43  DATE: 7/25/2017
TIME: 10:15 AM  DAY OF WEEK: Tuesday
OWNER: OMES  TEMP. RANGE: 90° F

PROJECT: Oklahoma Capitol Restoration - Exterior Rehabilitation
CAP PROJECT NO: 15039DB
JE DUNN PROJECT NO: 15025800
ADG PROJECT NO: 15-007
TREANOR PROJECT NO: HP 15.007.00B
ZFI PROJECT NO: 15071-01
ALVINE PROJECT NO: 2014-4286
SRB PROJECT NO: 114801

WEATHER: ☒ Clear  ☐ Overcast  ☐ Rain  ☐ Snow  ☐ Cold
☐ Warm  ☐ Hot  ☐ Foggy  ☐ Windy  ☐ Ice  ☐ Other _________

SITE CONDITIONS: ☒ Clear  ☐ Dusty  ☐ Muddy  ☐ Other ______________________

PERSONS CONTACTED: Mark Maska, Superintendent - JE Dunn Construction
Landon Heaton, Project Engineer - JE Dunn Construction
Lindsey Ross, Project Engineer - JE Dunn Construction
Lynnsee Boyse, Project Manager - JE Dunn Construction
Jason Cady, Architect - Mass Architects
Doug Kellogg, State Capitol - OMES

WORK OBSERVED:
The following was observed during this site visit:
1. Lead t-cap work progressing on north elevation of north wing (Bravo).
2. Stone repair work progressing on north elevation of dome platform.
4. Operable window component installation progressing on north elevation of east wing (Delta).
5. Window component installation progressing on north elevation of east wing (Delta).
6. Window frame painting progressing on north elevation of east wing (Delta).
7. Lead t-cap work progressing on parapet stone cap on north elevation of east wing (Delta).
8. Down rod work progressing on backside of parapet on north elevation of east wing (Delta).
9. Brick joint raking progressing on backside of parapet on north elevation of east wing (Delta).
10. Stone cleaning progressing on east elevation of east wing (Echo).
11. Scaffold tarp in place on east elevation of south wing (Golf).
12. Air handler in place on east elevation of south wing (Golf).
13. Interior partitions at windows progressing on east elevation of south wing (Golf).
14. Joint raking progressing on east elevation of south wing (Golf).
15. Gutter demolition progressing on east elevation of south wing (Golf).
16. Lightning protection removal progressing on east elevation of south wing (Golf).
17. Scaffold installation progressing on south elevation of south wing (Hotel).
ITEMS DISCUSSED:
The following items were discussed during this site visit:

1. The OAC Meeting occurred prior to the site visit in the jobsite trailers. Refer to OAC Meeting Minutes dated July 25, 2017, for items discussed during the meeting.
2. The relocation of the sanitary sewer line was reviewed with the State at the west elevation north wing (Alpha). Doug Kellogg, Jason Cady, Mark Maska, Peter Breninger and Streets Mechanical were in attendance. A manhole, closer to the building, was found during excavation. The new sanitary sewer line will tie into the closer manhole with a cleanout at the 90 degree bend, as indicated in the drawings.

ACTION REQUIRED:
None

ITEMS TO VERIFY:
None

REMARKS:
None

OBSERVED BY: Peter Breninger (ADG)

COPIES TO: Heath Glenn (JE Dunn), Josh Martin (JE Dunn), Landon Heaton (JE Dunn), Lindsey Ross (JE Dunn), Lynsee Boyse (JE Dunn), Mark Maska (JE Dunn), JC Witcher (ADG), Robert Meek (ADG), Amelia McKinney (TreonorHL), Julia Manglitz (TreonorHL), Todd Renyer (TreonorHL), Vance Kelley (TreonorHL), Mike Thompson (ZFI), Andy Wiese (Alvine), Ed Kongs (Alvine), Sam Haberman (Alvine), Steve Alvine (Alvine), Gary Noland (Smith Roberts Baldischwiler)

Lead t-cap work in progress on north elevation of north wing (Bravo)
Dutchman repair in progress on north elevation of dome platform

Stone patch in progress on north elevation of dome platform
Scaffold removal in progress on east elevation of north wing (Charlie)

Operable window component installation progress on north elevation of east wing (Delta)
Window component installation progress on north elevation of east wing (Delta)

Window frame painting progress on north elevation of east wing (Delta)
Lead t-cap work progress on parapet stone cap on north elevation of east wing (Delta)

Treated down rod progress on backside of parapet on north elevation of east wing (Delta)
Brick joint raking in progress on backside of parapet on north elevation of east wing (Delta)

Stone cleaning in progress on east elevation of east wing (Echo)
Scaffold tarp in place on east elevation of south wing (Golf)

Air handler in place on east elevation of south wing (Golf)
Interior partition at window progress on east elevation of south wing (Golf)

Joint raking in progress on east elevation of south wing (Golf)
Gutter demolition progress on east elevation of south wing (Golf)

Lightning protection removal in progress on east elevation of south wing (Golf)
Scaffold installation in progress on south elevation of south wing (Hotel)

Sanitary sewer line trenching in progress with uncovered manhole on west elevation of north wing (Alpha)
Sanitary sewer line existing location and proposed location in light well on west elevation of north wing (Alpha)
ENGINEER’S FIELD REPORT

Project: Oklahoma State Capitol Exterior Renovation
Project #: 15071-01
Date / Time: June 27, 2017
Temperature: ~79°F
Weather: Mostly Cloudy, breezy

Work in Progress: Exterior Masonry Restoration Project

Reason for Visit: Visit to existing vent shaft on north elevation for possible infill

Personnel: Mike Thompson – ZFI Engineering (Structural EOR)

Mike Thompson (MDT) of ZFI was on-site to observe the existing subgrade ventilation shaft that the owner desires to infill if possible to prevent future leak incidents.

Observations:

1. It is my understanding that during stone cleaning operations on the north wing, north elevation (Bravo scaffold elevation), a significant volume of water collected in the existing vent shaft and infiltrated the building's basement. Preventative measures (covering the opening) were taken to prevent this from reoccurring during construction.
2. The existing shaft is covered by an open grated manhole which allowed for water to enter the shaft from above. The manhole and ring are cast in the slab-on-grade immediately adjacent to the north face of the building, just west of the entry doors.

3. The rectangular shaft is approximately 8'-6" deep (below grade). An existing pipe was observed on the east side of the shaft. The bottom of the shaft is covered in loose dirt and debris. It is unclear if there is a concrete slab beneath.
4. A horizontal, circular shaft extends into the adjacent building's basement. The bottom of the circular shaft is approximately 2'-0" above the bottom of the main shaft. An existing piece of loose, deteriorated material (indicated in photo above) is in the bottom of the vertical shaft and may at one time covered the horizontal opening. Insulation board appears to be covering the interior side of the horizontal shaft. It is my understanding that wall finishes on the building interior could be demolished to access this shaft. We are likely seeing the backside of those finishes here.

5. A possible conceptual solution to infill the shaft to prevent future infiltration is as follows:
   1) Verify that the shaft and piping in the shaft are abandoned and no longer in service.
   2) Demolish the manhole ring and surrounding slab to enlarge the opening to the dimensions of the vertical shaft to allow for workers and equipment. *Note that confined space entry and working safeguards will likely be required for this work.*
   3) Remove the large debris.
   4) Construct a sacrificial form (wood or metal) to cover the horizontal, circular shaft opening and seal its edges.
   5) Place a lift (or series of lifts) of cementitious controlled low-strength material (CLSM) up to the top of the horizontal shaft opening.
   6) After that lift(s) has reached sufficient strength, place another lift (or series of lifts) of CLSM up to the underside of the new slab on grade.
   7) Install waterproofing between the filled shaft, the existing building, and the new slab-on-grade.
8) Cast a new slab-on-grade cap (6” to 8” thick) flush with the surrounding existing slab-on-grade. Dowels shall be drilled in as well to prevent differential movement between new and existing slab-on-grade elements.

9) Repair any damaged waterproofing systems or sealant in the immediate area affected by the demolition or installation.

Reported By: Mike Thompson, PE
ZFI Engineering Co.

-END-
FIELD OBSERVATION REPORT

REPORT NO: 067
DATE: 06/28/2017
TIME: 10:30-4:00
DAY OF WEEK: Wednesday
OWNER: OMES
TEMP. RANGE: Lo 80s – Lo 90s

PROJECT: Oklahoma Capitol Restoration - Exterior Rehabilitation
CAP PROJECT NO: 15039DB
JE DUNN PROJECT NO: 15025800
ADG PROJECT NO: 15-007
TREANOR PROJECT NO: HP 15.007.00B
ZFI PROJECT NO: 15071-01
ALVINE PROJECT NO: 2014-4286
SRB PROJECT NO: 114801

WEATHER: Clear Overcast ☑ Rain ☐ Snow ☐ Cold
☐ Warm ☐ Hot ☐ Foggy ☐ Windy ☐ Ice ☐ Other _______

SITE CONDITIONS: Clear ☐ Dusty ☐ Muddy ☐ Other ______________________

PERSONS CONTACTED: Lynnsee Boyse, Mark Maska, Landon Heaton, Lindsey Ross, Victor Mendoza
(JE Dunn)
Todd Maxwell (ReView)
Lukasz Lesniak (Mark 1)

WORK OBSERVED:

Installation of carpentry for built in gutter on A209 (Delta).

Installation of operable window upper and lower sash for preliminary fitting and preliminary water testing of weather stripping. This installation was an attempt to limit surface applied weather stripping to the meeting rail. This approach was taken to limit changes in appearance and to protect the weather stripping from constant exposure. Mockup was conducted on Window 342 on A209 (Delta). While the sashes could be adjusted to limit any light penetration, it failed preliminary water spray testing. Revisions to the weather stripping will be necessary.

Four stone re-set repair in progress on A209 (Delta). This will leave only patching repairs outstanding on A209.

Walked windows on A208 (Charlie) with JE Dunn as a preview for upcoming punch list.

ITEMS DISCUSSED:

Clerestory window mock up scheduling is awaiting delivery of materials. Upcoming review items for work to continue. (Mark 1)

Sheet metal work schedule including outstanding mock ups. Baker is anticipated to return week of July 24th. (JE Dunn)
Operable window mockup additional weather stripping parts to be ordered and on site for July 18th continuation. (ReView and JE Dunn)

ACTION REQUIRED:
Schedule continuation of operable window mock up. (ReView, JE Dunn, TreanorHL)

ITEMS TO VERIFY:

REMARKS:

OBSERVED BY: Julia Manglitz, Associate Principal (TreanorHL)

COPIES TO: David Mihm (OMES), Doug Kellogg (OMES), Mike Jones (OMES), Trait Thompson (OMES), Duane Mass (MAI), Jason Cady (MAI), Matthew Radcliffe (MAI), Mark Maska (JE Dunn), Josh Martin (JE Dunn), Landon Heaton (JE Dunn), Lindsey Ross (JE Dunn), Lynnsee Boyse (JE Dunn), JC Witcher (ADG), Robert Meek (ADG), Julia Manglitz (TreanorHL), Todd Renyer (TreanorHL), Vance Kelley (TreanorHL), Mike Thompson (ZFI), Steve Ford (ZFI), Andy Wiese (Alvine), Ed Kongs (Alvine), Sam Haberman (Alvine), Steve Alvine (Alvine), Gary Noland (Smith Roberts Baldschwiler)
Installation of upper sash of operable window mockup at window 342 on A209 (Delta).

Joints that would be caulked in final installation are taped for preliminary spray testing of window 342 mockup.
Preliminary water testing of operable window mockup at window 342.

Installing the final piece of the four piece remove and reset repair on A209 (Delta).
Gaps in filler sealant (between primer and intermediate paint coats) between cast iron elements.
Condition needs to be corrected.

Preliminary review of work on A208 prior to upcoming punch list.
FIELD OBSERVATION REPORT

REPORT NO: 068
DATE: 06/29/2017
TIME: 8:00am-4:30pm
DAY OF WEEK: Thursday
OWNER: OMES
TEMP. RANGE: Hi 70s – Lo 90s

PROJECT: Oklahoma Capitol Restoration - Exterior Rehabilitation
CAP PROJECT NO: 15039DB
JE DUNN PROJECT NO: 15025800
ADG PROJECT NO: 15-007
TREANOR PROJECT NO: HP 15.007.00B
ZFI PROJECT NO: 15071-01
ALVINE PROJECT NO: 2014-4286
SRB PROJECT NO: 114801

WEATHER: ☑ Clear ☑ Overcast ☑ Rain ☑ Snow ☑ Cold
☐ Warm ☑ Hot ☑ Foggy ☑ Windy ☑ Ice ☑ Other ________

SITE CONDITIONS: ☑ Clear ☑ Dusty ☑ Muddy ☑ Other ________________

PERSONS CONTACTED:
Mark Maska, Landon Heaton, Lindsey Ross, Katie Blue (JE Dunn)
Todd Maxwell (ReView)
Lukasz Lesniak (Mark 1)
Conley Group
Will Henry Allen (Chamberlain)

WORK OBSERVED:
Re-testing (water spray) windows on A207 (Bravo). See Conley report.
Reviewed/documenting coatings at west balustrade railing to include removal in ASI-006 final revisions.
Final pointing work in progress on A209 (Delta).

ITEMS DISCUSSED:
Punch list for A208 (Charlie) scheduled for July 13th. Documented pre-punch from sub-contractors will be due prior to walking punch list. Water spray testing by Conley Group of A208 (Charlie) windows scheduled for July 10th. (JE Dunn)

Building facts and any good action photos requested for graphics at the protected entry on A212 (Golf). (JE Dunn)

Sealant joints and other window work on A208 (Charlie) that requires further attention prior to punch list on July 13th. (ReView and Chamberlain)

Weather stripping and detailing for operable window mock up continuation. (ReView)
Clerestory window related mock ups scheduling – Mark 1 needs to confirm materials will all be on site for July 11th/12th. (Mark 1, JE Dunn)
ACTION REQUIRED:

Schedule continuation of operable window mock up. (ReView, JE Dunn, TreanorHL)

ITEMS TO VERIFY:

REMARKS:

OBSERVED BY: Julia Manglitz, Associate Principal (TreanorHL)

COPIES TO: David Mihm (OMES), Doug Kellogg (OMES), Mike Jones (OMES), Trait Thompson (OMES), Duane Mass (MAI), Jason Cady (MAI), Matthew Radcliffe (MAI), Mark Maska (JE Dunn), Josh Martin (JE Dunn), Landon Heaton (JE Dunn), Lindsey Ross (JE Dunn), Lynsee Boyse (JE Dunn), JC Witcher (ADG), Robert Meek (ADG), Julia Manglitz (TreanorHL), Todd Renyer (TreanorHL), Vance Kelley (TreanorHL), Mike Thompson (ZFI), Steve Ford (ZFI), Andy Wiese (Alvine), Ed Kongs (Alvine), Sam Haberman (Alvine), Steve Alvine (Alvine), Gary Noland (Smith Roberts Baldischwiler)

Spray testing by Conley Group on A207 (Bravo) – retesting repaired windows.
Conley Group spray testing nozzle and pressure gauge. Testing on A207 (Bravo).

A206 (Alpha) with scaffold fully removed.
Over application of prior water proofing coatings on west balustrade. Coating removal will be attempted as part of work described in forthcoming ASI-006.

Repointing work on A209 (Delta).
FIELD OBSERVATION REPORT

REPORT NO: 069  DATE: 07/12/2017
TIME: 7:30-5:00  DAY OF WEEK: Wednesday
OWNER: Omes

TEMP. RANGE: Hi 70s – Mid 90s

PROJECT: Oklahoma Capitol Restoration - Exterior Rehabilitation
CAP PROJECT NO: 15039DB
JE DUNN PROJECT NO: 15025800
ADG PROJECT NO: 15-007
TREANOR PROJECT NO: HP 15.007.00B
ZFI PROJECT NO: 15071-01
ALVINE PROJECT NO: 2014-4286
SRB PROJECT NO: 114801

WEATHER: ☒ Clear AM ☐ Overcast ☐ Rain ☐ Snow ☐ Cold
☐ Warm ☐ Hot ☐ Foggy ☒ Windy ☐ Ice ☐ Other ________

SITE CONDITIONS: ☐ Clear ☐ Dusty ☐ Muddy ☐ Other ____________

PERSONS CONTACTED: Lynnsee Boyse, Mark Maska, Landon Heaton, Lindsey Ross (JE Dunn)
Lukasz Lesniak, Bromley Kelly (Mark 1)

WORK OBSERVED:

Cleaning starting on A212 (Golf).
Mockups for mortar joint cutting A212 using water and dust control to meet the OSHA silica rule.
Cleaning continuing on A210 (Echo).
Final pointing on going at A209 (Delta).

Progress on brick repairs and parapet through wall flashing installation on C1 and E1/A215 (Delta and Echo backside) – work is 95% complete. Outstanding items include cutting reglet for sheet metal installation (raised one brick joint above existing), priming and painting the tops of down rod and plate assemblies to remain, and finally filling pockets over down rods with mortar to provide a smooth substrate for sheet metal. Some brick piers still have limited areas of unstable brick to be rebuilt prior to installation of rain screen cladding and associated flashing.

Carpentry on going for built in gutter along A209 (Delta) and the north half of A210 (Echo).

Reviewed personnel certification mockup for patching; John Lucero. See mockup comments.

Most repairs completed on B1/A214 (Bravo platform). Revised size of DN-0R/05 due to unforeseen damage. Deleted repair DN-0R/01. East louver will need to be removed and reinstalled to allow masonry repairs.
ITEMS DISCUSSED:
Revised cleaning outcome on A209 (Delta). Mark 1 reports good drying and overall good results. Some follow-up spot cleaning is necessary to treat isolated areas of biological, but the process is going much better. Results appear to be more consistent. Alkali staining has not been observed on A209 as it was on A206, A207 and A208 (Alpha, Bravo and Charlie). Efflorescence has not been observed by masons or designers on A209 as it was on A206, A207 and A208. (Mark 1, L. Lesniak)

OSHA silica rule implementation was discussed. The rule encourages the use of water for cutting operations to control dust. Adding “misting” would be acceptable based on mockups. Misting is defined as dampening the surface (sometimes repeatedly) but not enough to cause standing or pooling water. Adding moisture to demolition processes does produce a damp, sticky residue that adheres to the stone surfaces. This residue has the potential to leave white cloudy deposits or lime streaks. Striping has been leaving white marks that require treatment without the inclusion of water. Water may exacerbate this issue. Removal of the residue prior to drying is advised. Adding water to the degree that is creates pools or areas of standing water is to be avoided. Voids in the masonry may allow water to enter the building. Excessive water may cause deterioration of ferrous anchors even when water does not penetrate to the interior. Excessive water or water in contact with backing brick may result in efflorescence and/or alkali staining. Developing means and methods to comply with OSHA regulations for all situations will require adjusting the techniques demonstrated. See mockup comments. (Mark 1)

Requirements for resetting pavers on A201 (Hotel) to prevent scaffold loads damaging pavers and allowing loads to be transferred to the underlying concrete structure; mortar will be full in areas that dunnage or beams are used to support scaffold. (Mark 1, L. Lesniak)

Pinning repair, the paver that broke upon removal; 3/8” diameter pins shall be used with 6” minimum imbed, the pins shall be set 5” from the edges and then equally spaced. The crack will not be filled now, but protection to prevent water from entering the crack shall be applied prior to setting scaffold. (Mark 1, L. Lesniak)

ACTION REQUIRED:

ITEMS TO VERIFY:
Techniques and tools to be used to comply with OSHA silica rule. Designers shall be apprised of changes. (Mark 1)

REMARKS:
Revised masonry cleaning procedure appears to be producing acceptable results with less overall wetting and the façade is drying more quickly. Conditions will continue to be monitored.

OBSERVED BY: Julia Manglitz, Associate Principal (TreanorHL)

COPIES TO: David Mihm (OMES), Doug Kellogg (OMES), Mike Jones (OMES), Trait Thompson (OMES), Duane Mass (MAI), Jason Cady (MAI), Matthew Radcliffe (MAI), Mark Maska (JE Dunn), Josh Martin (JE Dunn), Landon Heaton (JE Dunn), Lindsey Ross (JE Dunn), Lynsee Boyse (JE Dunn), JC Witcher (ADG), Robert Meek (ADG), Julia Manglitz (TreanorHL), Todd Renyer (TreanorHL), Vance Kelley (TreanorHL), Mike Thompson (ZFI), Steve Ford (ZFI), Andy Wiese (Alvine), Ed Kongs (Alvine), Sam Haberman (Alvine), Steve Alvine (Alvine), Gary Noland (Smith Roberts Baldischwiler)
Cutting joints using a shroud, joint misted with water. White line below the joint is a line of dampened dust residue that sticks to the wall. A212 (Golf)

Limestone demolition using water mist, performed similar to joint raking, A210 (Echo)
A212 (Golf) scaffold fully erected.

Protected entry along A212 (Golf).
A201 (Hotel) cracked paver – see text for pinning to stabilize for re-setting to allow scaffold installation.

Missing eagle beak repaired on B1/A214 (Bravo platform)
C1/A215 (back of Delta) down rod repair, pocket awaiting mortar fill at top of down rod. Reglet for sheet metal flashing needs to be cut one brick course higher than existing and old reglet filled.

C1/A215 (back of Delta – at corner with back of Echo) loose brick needs to be reset.
A209 (Delta) carpentry for built-in gutter near complete. Scupper detail shown.

Results of sealant removal on A210 (Echo) – results appear to be good, but resistant areas are still encountered at some windows.
A208 (Charlie) with tarps removed to allow better viewing during punch list scheduled for 7-13-2017.
FIELD OBSERVATION REPORT

REPORT NO: 070  DATE: 07/13/2017
TIME: 7:30-4:00  DAY OF WEEK: Thursday
OWNER: OMES  TEMP. RANGE: Mid 70s – Hi 90s

PROJECT: Oklahoma Capitol Restoration - Exterior Rehabilitation
CAP PROJECT NO: 15039DB
JE DUNN PROJECT NO: 15025800
ADG PROJECT NO: 15-007
TREANOR PROJECT NO: HP 15.007.00B
ZFI PROJECT NO: 15071-01
ALVINE PROJECT NO: 2014-4286
SRB PROJECT NO: 114801

WEATHER: ☑ Overcast  ☐ Rain  ☐ Snow  ☐ Cold
☑ Warm  ☐ Hot  ☐ Foggy  ☑ Windy  ☐ Ice  ☐ Other _______

SITE CONDITIONS: ☐ Clear  ☐ Dusty  ☐ Muddy  ☐ Other ___________________

PERSONS CONTACTED: Lynnsee Boyse, Mark Maska, Landon Heaton, Lindsey Ross (JE Dunn)
Lukasz Lesniak (Mark 1)
Brandon Thompson (ReView)
Jason Cady (Mass Architects)
Todd Maxwell (ReView – via phone)

WORK OBSERVED:

Punch list for A208 (Charlie) from 8:30 to 1:00pm. Jason Cady present along with JE Dunn and Mark 1.
ReView representation by Brandon as Jim was out.

A207 (Bravo) scaffold being dismantled to the top of the granite. Cleaning and lead T-cap work will be
completed at the top of the granite water table once the scaffold is out of the way.

Preliminary cleaning at upper parapet area of A212 (Golf) is underway and planned to be complete
before gutter liner is demolished.

ITEMS DISCUSSED:

Clerestory window mock up scheduling is awaiting delivery of materials. Upcoming review items for
work to continue. (Mark 1)

Sheet metal work schedule including outstanding mock ups. Baker is anticipated to return week of
July 24th. (JE Dunn)

Operable window mockup additional weather stripping parts to be ordered and on site for July 18th
continuation. (ReView and JE Dunn)
ACTION REQUIRED:

ITEMS TO VERIFY:
Scheduled repair for windows 218 and 216 on A212 (Golf). (TreanorHL)

REMARKS:

OBSERVED BY: Julia Manglitz, Associate Principal (TreanorHL)

COPIES TO: David Mihm (OMES), Doug Kellogg (OMES), Mike Jones (OMES), Trait Thompson (OMES), Duane Mass (MAI), Jason Cady (MAI), Matthew Radcliffe (MAI), Mark Maska (JE Dunn), Josh Martin (JE Dunn), Landon Heaton (JE Dunn), Lindsey Ross (JE Dunn), Lynnsee Boyse (JE Dunn), JC Witcher (ADG), Robert Meek (ADG), Julia Manglitz (TreanorHL), Todd Renyer (TreanorHL), Vance Kelley (TreanorHL), Mike Thompson (ZFI), Steve Ford (ZFI), Andy Wiese (Alvine), Ed Kongs (Alvine), Sam Haberman (Alvine), Steve Alvine (Alvine), Gary Noland (Smith Roberts Baldischwiler)

A208 (Charlie) eagle.
Temporary condition between A208 (Charlie) and A209 (Echo) needs sealant along loose edge of Grace and backer rod installed at open reglet to prevent water infiltration under Charlie gutter.
View of construction zone from A208 (Charlie) scaffold.

Preliminary cleaning on corona of A212 (Golf) prior to placing tarps.
East chimera on A201 (Hotel) north face cleaning partially complete.

East chimera on A201 (Hotel) south face cleaning not commenced except at face, mane and front paws which are accessible from A212 (Golf) scaffold.
Masonry Repair Certifications:

On the exterior restoration project we are completing several stone repairs on each elevation. Depending on the size and complexity of each repair, the mason that completes these repairs must be certified by our historical preservation architect, Julia Manglitz, TreanorHL prior to completing any repairs. The following reports describe the certification process for several masons on our project. Ultimately, if the mason does not pass the certification mock-up test, they will not be permitted to complete any additional repairs on our Capitol project. Thus far, each certification mock-up has been passed.
Date: 7-12-2017

Project: Oklahoma Capitol Restoration – Exterior Rehabilitation
CAP PROJECT 15039DB

Company: JE Dunn / Mark 1
Attention: Mark Maska / Lukasz Lesniak

From: Julia Mathias Manglitz
CC: L. Boyce (JED)
    JC Witcher, P. Breninger (ADG)
    R. Gebarowski, B. Kelly, S. Evett (M1)

Reference: 040342 – 1.9.D – Patch repair on Limestone

Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing. Where review is made at an intermediate stage, is partial or is one scope of work within a larger mock-up assembly, review comments are conditional based on the final full execution of the mock-up(s)

☐ Reviewed
☒ Reviewed as Noted
☐ Revise and Schedule Follow Up Review
☐ Rejected

Worker Certified: John Lucero. Jahn restoration mortars provided require certified worker, John holds such certification.

Mock Ups Reviewed: Mock up performed on A209 (Delta).

The following are specific comments that are key-noted on the mock up documentation:

1. None.

The following are general comments regarding these mock ups:

1. Mix standard colors and tint them to match each patch to the stone being patched.
2. One patch was too dark, remove and replace the patch with a lighter color that matches the stone.
Patch is a good color match at EN-04/X01
Patch is too dark at EN-02/X02
Date: 5-10-2017

Project: Oklahoma Capitol Restoration – Exterior Rehabilitation
CAP PROJECT 15039DB

Company: JE Dunn / Mark 1
Attention: Mark Maska / Lukasz Lesniak

From: Julia Mathias Manglitz
CC: L. Boyce (JED)
     JC Witcher, P. Breninger (ADG)
     R. Gebarowski, B. Kelly, S. Evett (M1)

Reference: 040342 – 1.9.D – Patch repair on Limestone

Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing. Where review is made at an intermediate stage, is partial or is one scope of work within a larger mock-up assembly, review comments are conditional based on the final full execution of the mock-up(s)

☐ Reviewed
☒ Reviewed as Noted
☐ Revise and Schedule Follow Up Review
☐ Rejected

Worker Certified: Jacek Wolski. Jahn restoration mortars provided require certified worker, Jacek holds such certification.

Mock Ups Reviewed: Mock up performed on A209 (Delta).

The following are specific comments that are key-noted on the mock up documentation:

1. None.

The following are general comments regarding these mock ups:

1. Mix standard colors and tint them to match each patch to the stone being patched.
Mock Up Review: 040342 PA - Limestone
Worker Certification: J. Wolski
Page 2
Project #: 01426-01
Date: 5-10-2017

3 patches installed on chimera on A207 (Bravo) all are good color matches

Detail of one of the patches
Phasing & Schedule Attachments:
The following documents are included in the subsequent pages:

- Site Phasing Plan
- Site Utilization Plan
- Six (6) Week Look Ahead Schedule
Site Phasing Plan:

The site phasing plan is a broad representation of the work flow for the Capitol exterior rehabilitation. Beginning with Alpha (west elevation of the north wing), scaffolding has been constructed continuing on to Bravo, Charlie, Delta and Echo. We construct a phase of scaffolding at a time, which is followed by hazardous material removal, window restoration, and stone and lighting repair. As each phase is completed, the scaffolding will be disassembled and reassembled on similar elevations. This site phasing will occur for the duration of the rehabilitation until all work is complete, and the State Capitol is back to its original beauty and functionality.
Trailer Compound

TUNNEL (will continue across Lincoln)

DELTA

FOX TROT

ECHO

KILO

ALPHA

CHARLIE

GOLF

INDIA HOTEL

JULIETTE

LIMA

KILO

KILO

KILO
Site Utilization Plan:

Per our site utilization plan, the JE Dunn trailer compound is the designated area for our staff members, trade partners, and material storage areas. It currently houses four field offices.

Our site fencing is a revolving system that isolates our work area from the public as we move around the Capitol building, helping to ensure a safe work environment.

The gravel lay-down areas are designated paths where machinery, supplies, and equipment are stored and provide a roadway for machinery to move supplies to and from the job site. The gravel will also serve as a protective barrier of the subsurface.

Fence gates mark all areas where access can be gained to the job site for material and/or equipment deliveries, emergency access, or personnel access. These gates remain closed and are locked every night to ensure a safe work environment.
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**Window Replacement**

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**Cler.SE-Install Roof Protection**

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**Cler.SE-Remove/Relocate Electrical**

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**Cler.SE-Remove Brick @ Clerestory Windows Heads (Salvage)**

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**Cler.SE-Remove Exist Window**

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**Cler.SE-Remove Stone Sill Where Applicable**

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**Cler.SE-Install New Lintel**

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**Cler.SE-Brick Repair**

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**Cler.SE-Paint Door Frame**

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**Cler.SE-Start Window Replacement**

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**DB.N-Limestone Repairs**

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**DB.N-Install Lead-Tees**

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**DB.N-Sealant Grilles**

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**DB.N-Remove & Reinstall Sealants @ Exist Reglets**

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**DB.N-Rake & Install Sealant @ Dissimilar Metals**

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**DB.N-Clean, Prime & Paint Door Frames**

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**DB.N-Reinstall Electrical**

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**DB.N-Reinstall Lightning Protection**

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**DB.N-Finish Stone Repair**

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**DB.E-Install Roof Temp Protection**

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**DB.E-Remove Existing Elec**

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**DB.E-Erect Scaffold**

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**DB.E-Rake Mortar Joints**

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**DB.E-Start Stone Repair**

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**DB.W-Install Roof Temp Protection**

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**DB.W-Remove Existing Elec**

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**DB.W-Erect Scaffold**

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**DB.W-Remove Lightning Protection**

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**DB.W-Start Stone Repair**

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**Oklahoma State Capitol Exterior Renovation**

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