

CMAR PRE-PROPOSAL MEETING AGENDA

Project Identification

Project Name: a) Repairs and West Plaza Replacement (#25-M08)
b) Freight Elevator Repairs (#25-S07-1)
c) Basement Tenant Improvement (#23-C15)

Project Address: 100 N. Stewart St., Carson City, NV 89701
SPWD Project No.: 25-M08, 25-S07-1, 23-C15

Meeting Date: October 22, 2025

State Public Works Division

SPWD Project Manager: Kyle Fischer
Project Manager
T: (775) 684-4141
C: (775) 315-0881
E: kfischer@admin.nv.gov

Consulting Team

Architect: H+K Architects
Mechanical Engineer: Ainsworth Associates
Electrical / Telecom: PK Electrical
Structural Engineer: CFBR Structural Group
Elevator Consulting: HKA Elevator Consulting

State Agency

Owner: State Public Works Division – B&G
Building Manager: State Public Works Division – B&G

Introductions

1. Distribute Sign-In Sheet
2. Introductions

Project Brief

3. Established Construction Budget: \$13,623,586 (Combined)
4. Gross Building Area: 130,000 square feet
5. Description(s):

#25-M08:

This project will design and construct removal and replacement of degraded structural components, walkway, outdoor paver systems, and repair the waterproofing. Openings, including doors and windows will be resealed/caulked to prevent water infiltration. Water damaged interiors will be repaired.

The CMAR will be responsible for investigative demolition prior to the design phase to expose concealed conditions. Any areas opened during this investigation must be properly protected and maintained in place until the design has been completed and a building permit has been issued. Temporary structural shoring is currently in place and must also be protected and maintained throughout design and construction.

The building has consistent issues with water infiltration and damage. The elevated plazas that are above an occupied basement are no longer watertight leading to significant damage at the east and west end of the buildings and includes the structural steel. The elevated walkway also has insufficient drainage leading to damage to the structural components. The Nevada State Library and Archives building was constructed in 1992 and is 130,000 square-feet.

#25-S07-1:

This project involves replacing the existing freight elevator and sump pump to resolve longstanding water infiltration issues. The elevator pit will need to be properly waterproofed and sealed to prevent future flooding.

#23-C15:

This project involves the design and construction of a tenant improvement project for a state agency located in the basement of the Nevada State Library and Archives (NSLA). The scope of work includes reconfiguring interior spaces, the replacement of mechanical engineering components, installing insulation at perimeter walls, replacement of interior and select exterior light fixtures, and new carpeting.

Overall Project Schedule

6. See attached preliminary project schedule.

Site

7. The Nevada State Library and Archives building was constructed in 1992.

Project Challenges

Four-year design and construction timeline

Secured Facility – Access into archives requires either a high security clearance OR full-time escort

Protecting areas exposed to the elements throughout design

Staging, due to the facility being fully occupied

Temporary facilities if required

Project Questions and Notes

Proposal Procedure

8. Proposals are due November 4, 2025 at 5:00 PM (local time).
9. Please email your electronic submittal to Mike Brown at mcbrown@admin.nv.gov in PDF format (attachments are limited to 20 MB and download links are accepted) and provide five (5) hardcopies to the State Public Works Division office in Carson City or Las Vegas as specified in CMAR Special Notice #3 (9.30.2025).

SPWD Chief of Planning

Michael Brown Jr, PE

T: (775) 684-4141

C: (775) 434-3781

E: mcbrown@admin.nv.gov

Proposal Schedule

10. Request for Info Deadline	October 28, 2025
Proposal Deadline	November 4, 2025
Shortlist Notification	November 14, 2025
Fee Proposal Submittal	November 26, 2025 (Special Notice #9)
Interviews	December 5, 2025
Pre-Construction Contract Approval	February 10, 2026 (Tentative)

Requests for Information

11. Send questions via email to the Project Manager and copy the Chief of Planning:
Kyle Fischer (Project Manager): kfischer@admin.nv.gov
Mike Brown (Chief of Planning): mcbrown@admin.nv.gov
12. Request for Information Deadline: October 28, 2025
13. RFI responses will be posted on the “Special Notices” on SPWD website.

Other Information

14. Check SPWD Bidder Qualification Status: Kathi Pasciak (kpasciak@admin.nv.gov)

[illegible]

PROJECT SCHEDULE (CMAR FORMAT)

Project Name:	Building Repairs, Plaza Replacement, and Basement TI
Project Location:	Carson City, NV
Project No:	25-M08, 23-C15, 25-S07-1
Date:	9/24/2025

Begin Schematic Design Phase	Monday, February 16, 2026
<i>Approximate Duration</i>	77
Schematic Design Delivery	Monday, May 4, 2026
<i>Approximate Duration</i>	2
Schematic Design Presentation Meeting	Wednesday, May 6, 2026
<i>Approximate Duration</i>	14
Schematic Design Review Comments Issued	Wednesday, May 20, 2026
<i>Approximate Duration</i>	5
Begin Design Development Phase	Monday, May 25, 2026
<i>Approximate Duration</i>	77
Design Development Delivery	Monday, August 10, 2026
<i>Approximate Duration</i>	2
Design Development Presentation Meeting	Wednesday, August 12, 2026
<i>Approximate Duration</i>	14
Design Development Review Comments Issued	Wednesday, August 26, 2026
<i>Approximate Duration</i>	5
Begin Construction Documents Phase	Monday, August 31, 2026
<i>Approximate Duration</i>	77
Construction Documents Delivery	Monday, November 16, 2026
<i>Approximate Duration</i>	2
Construction Documents Presentation Meeting	Wednesday, November 18, 2026
<i>Approximate Duration</i>	5
100% Construction Documents Delivery (to Plan Checking Firms/Agencies)	Monday, November 23, 2026
<i>Approximate Duration</i>	28
Plan Check Comments Issued #1	Monday, December 21, 2026
<i>Approximate Duration</i>	21
Reponse to Plan Check	Monday, January 11, 2027
<i>Approximate Duration</i>	14
Plan Check Comments Issued #2	Monday, January 25, 2027
<i>Approximate Duration</i>	7
Plan Check Comments Addressed and Bid Documents Delivered	Monday, February 1, 2027
<i>Approximate Duration</i>	7
Advertise for Subcontractor Bids	Monday, February 8, 2027
<i>Approximate Duration</i>	21
Deadline for RFI's from Subcontractors	Monday, March 1, 2027
<i>Approximate Duration</i>	7
Architect Response to RFI's	Monday, March 8, 2027
<i>Approximate Duration</i>	7
Bid Opening	Monday, March 15, 2027
<i>Approximate Duration</i>	14
CMAR Provides 1% Subcontractor List to SPWD	Monday, March 29, 2027
<i>Approximate Duration</i>	7
GMP Proposal Draft Due	Monday, April 5, 2027
<i>Approximate Duration</i>	2
GMP Review	Wednesday, April 7, 2027
<i>Approximate Duration</i>	14
GMP Review Comments Issued	Wednesday, April 21, 2027
<i>Approximate Duration</i>	7
Final GMP Proposal and Bonds Due	Wednesday, April 28, 2027

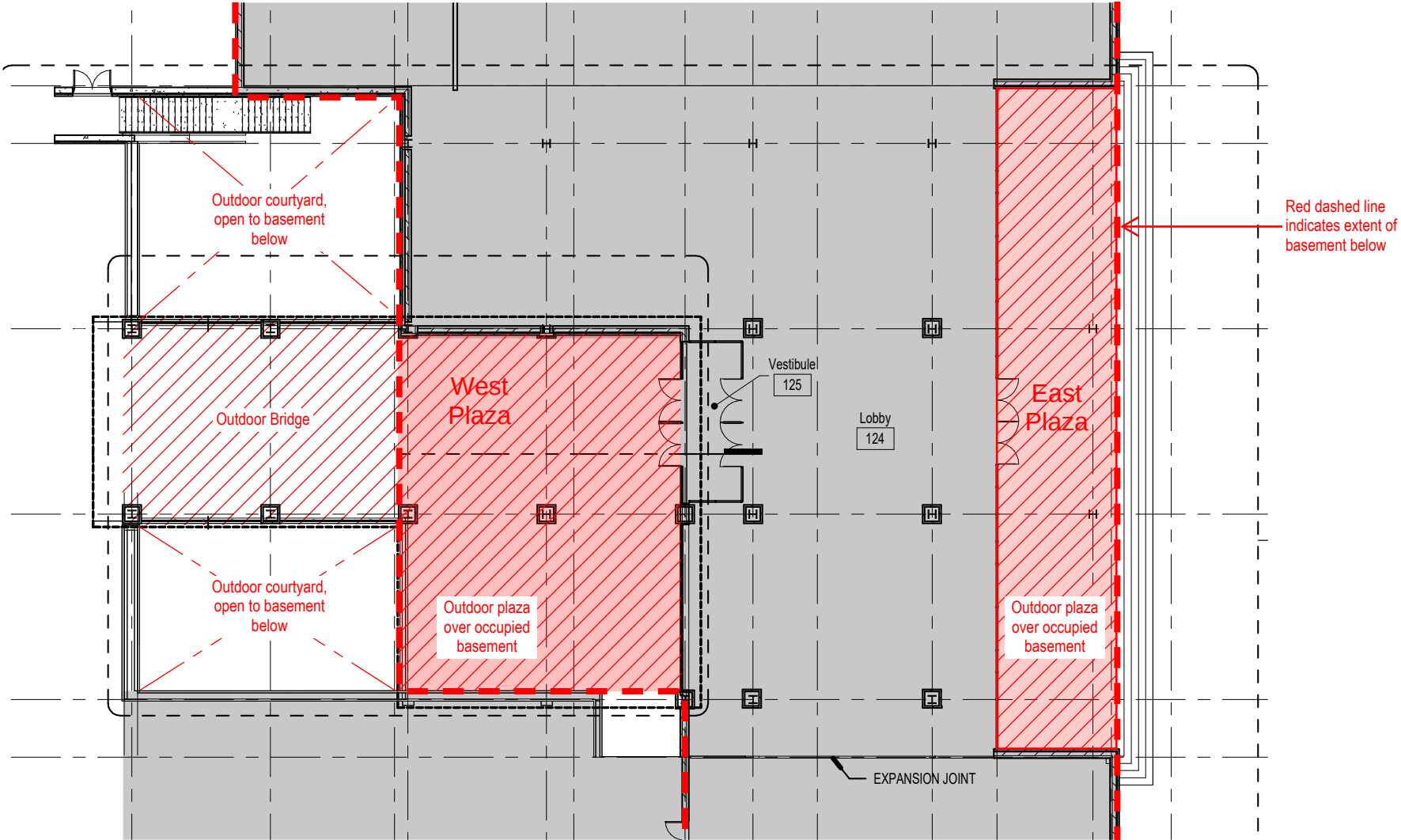
<i>Approximate Duration</i>	5
Owner-CMAR Construction Agreement Routing	Monday, May 3, 2027
<i>Approximate Duration</i>	1
BOE Agenda Submittal Deadline	Tuesday, May 4, 2027
<i>Approximate Duration</i>	35
BOE Meeting & Approval	Tuesday, June 8, 2027
<i>Approximate Duration</i>	3
Owner-CMAR Construction Agreement Executed and Distributed	Friday, June 11, 2027
<i>Approximate Duration</i>	19
Equipment Submittals Issued for Review	Wednesday, June 30, 2027
<i>Approximate Duration</i>	14
Equipment Submittals Approved and Equipment Ordered	Wednesday, July 14, 2027
<i>Approximate Duration</i>	5
Notice to Proceed / Begin Construction	Monday, July 19, 2027
<i>Approximate Duration</i>	270
Certificate of Substantial Completion / Certificate of Occupancy	Friday, April 14, 2028
<i>Approximate Duration</i>	21
Agency Move-in	Friday, May 5, 2028
<i>Approximate Duration</i>	24
Building Open for Intended Use	Monday, May 29, 2028
<i>Remaining Duration</i>	397
Funding Expiration Date	Saturday, June 30, 2029

Nevada State Library and Archives

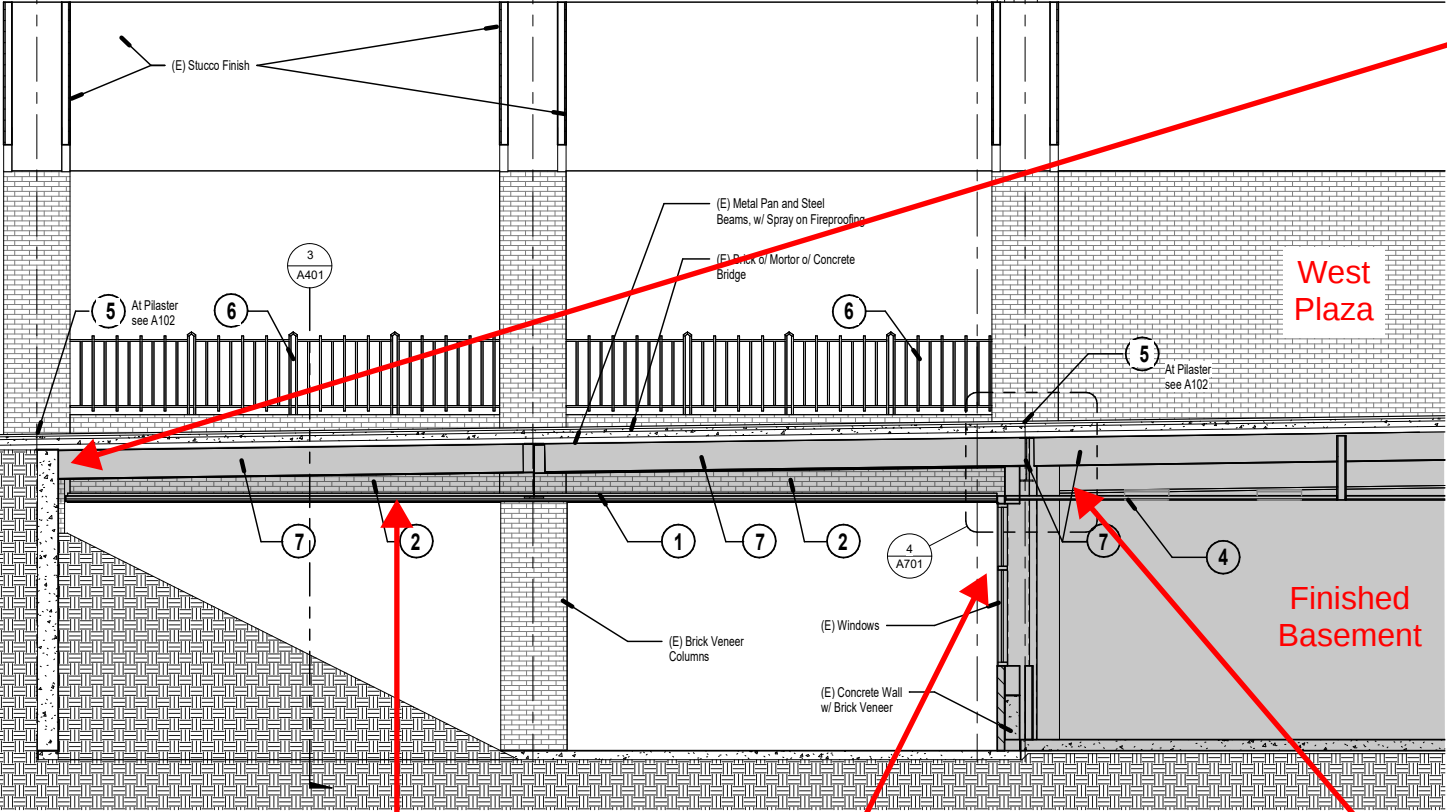
23-M08, 25-S07-1 & 23-C15



Nevada State Library and Archives
Ground Floor Plan (25-M08)



Nevada State Library and Archives
West Plaza (25-M08)



Beam to foundation wall connection at underside of bridge



Rusted ledgers and cracked brick veneer at bridge

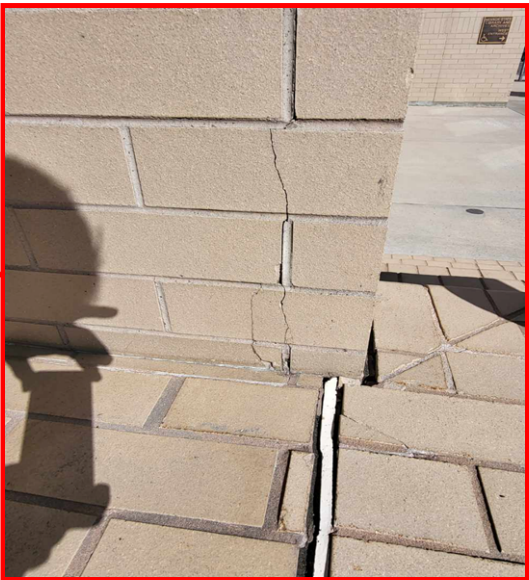


Rusted ledgers and window system at basement wall

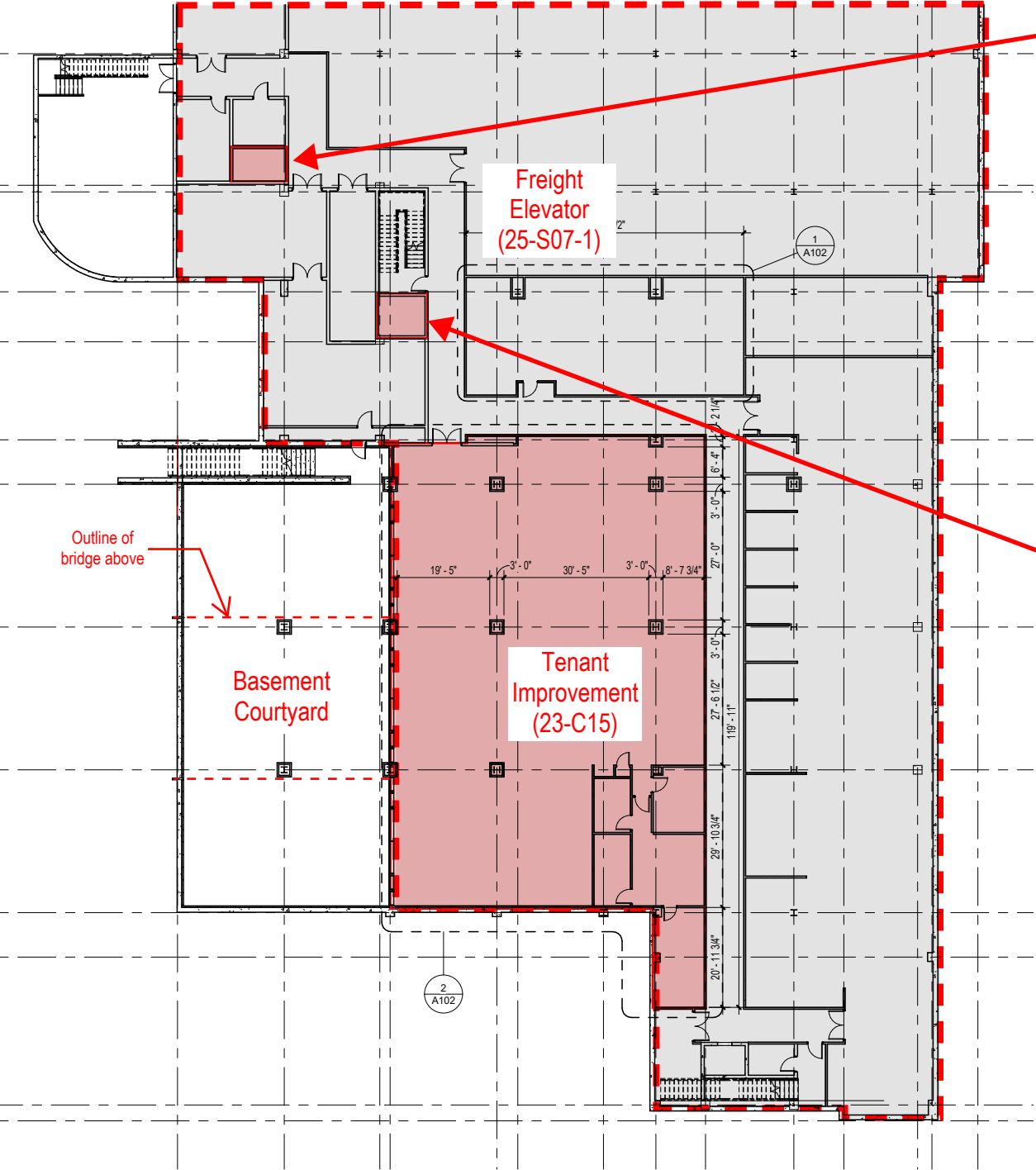


Rusted beams, deck and hangers

Nevada State Library and Archives
East Plaza (25-M08)



Nevada State Library and Archives
Basement Floor Plan (25-S07-1 & 23-C15)



Constantly draining into sump room



Freight elevator pit

State Public Works

CMAR Selection

for the

a) Building Repairs and West Plaza Replacement (SPWD Project #25-M08)

b) Freight Elevator Repairs (SPWD Project #25-S07-1)

c) Basement Tenant Improvement (SPWD Project #23-C15)

Nevada State Library and Archives (NSLA)

100 N. Stewart St.

Carson City, NV 89701

FORMAL SELECTION PROCESS

Issue Date: September 22, 2025

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CMAR REQUEST FOR PROPOSALS

Date: September 22, 2025

Project Identification

There are three (3) projects incorporated in this CMAR Request for Proposal (RFP), all at the Nevada State Library and Archives (NSLA):

Project Name(s): a) Building Repairs and West Plaza Replacement (SPWD Project #25-M08)
 b) Freight Elevator Repairs (SPWD Project #25-S07-1)
 c) Basement Tenant Improvement (SPWD Project #23-C15)

Project Address: 100 N. Stewart St., Carson City, NV 89701

Owner

State Public Works Division
680 W Nye Ln., Ste. 103
Carson City, Nevada 89703
(775) 684-4141

SPWD Project Manager: Kyle Fischer and Henry Pamaran

The CMAR shall be qualified to bid on public work in accordance with Nevada Revised Statutes Section 338.1379 prior to submitting a response to this Request for Proposals.

SPWD RFP/Interview Submittal Contact: Mike Brown at mcbrown@admin.nv.gov or (775) 434-3781

All questions or comments pertaining to the RFP and/or the Interview Submittal shall be directed to the State Public Works Division RFP/Interview Submittal Contact listed above.

Using Agency: Nevada State Library and Archives, and Governor's Technology Office

Architect

Firm Name: H+K Architects
Address: 50 Washington St., Ste 200
City, State, Zip Code: Reno, NV 89503
Phone: (775) 772-3141

Delivery Deadline for Proposals

Please email your electronic submittal to Mike Brown at mcbrown@admin.nv.gov in PDF format (attachments are limited to 20 MB and download links are accepted) and provide five (5) hardcopies to the State Public Works Division office (address listed above) until:

Date: November 4, 2025

Time: 5:00 PM (local time)

ARTICLE 1 PROJECT DESCRIPTION AND BUDGET

Building Name: Nevada State Library and Archives (NSLA)
Gross Building Area: 130,000 square feet
Established Construction Budget: a) Building Repairs and West Plaza Replacement: \$9,458,039
b) Freight Elevator Repairs: \$1,214,491
c) Basement Tenant Improvement: \$2,951,056

General Project Description:

a) Building Repairs and West Plaza Replacement (SPWD Project #25-M08):

This project will design and construct removal and replacement of degraded structural components, walkway, outdoor paver systems, and repair the waterproofing. Openings, including doors and windows will be resealed/caulked to prevent water infiltration. Water damaged interiors will be repaired.

The CMAR will be responsible for investigative demolition prior to the design phase to expose concealed conditions. Any areas opened during this investigation must be properly protected and maintained in place until the design has been completed and a building permit has been issued. Temporary structural shoring is currently in place and must also be protected and maintained throughout design and construction.

The building has consistent issues with water infiltration and damage. The elevated plazas that are above an occupied basement are no longer watertight leading to significant damage at the east and west end of the buildings and includes the structural steel. The elevated walkway also has insufficient drainage leading to damage to the structural components. The Nevada State Library and Archives building was constructed in 1992 and is 130,000 square-feet.

b) Freight Elevator Repairs (SPWD Project #25-S07-1):

This project involves replacing the existing freight elevator and sump pump to resolve longstanding water infiltration issues. The elevator pit will need to be properly waterproofed and sealed to prevent future flooding.

c) Basement Tenant Improvement (SPWD Project #23-C15):

This project involves the design and construction of a tenant improvement project for a state agency located in the basement of the Nevada State Library and Archives (NSLA). The scope of work includes reconfiguring interior spaces, the replacement of mechanical engineering components, installing insulation at perimeter walls, replacement of interior and select exterior light fixtures, and new carpeting.

ARTICLE 2 PAYMENT TERMS AND DEFINITIONS

See CMAR General Conditions of the Contract (Section 7.5).

ARTICLE 3 CMAR PRE-CONSTRUCTION SERVICES

See Owner-CMAR Pre-Construction Agreement for description of required services.

The CMAR's participation will commence immediately upon contract execution.

ARTICLE 4 PROJECT AND RFP TIME SCHEDULE

See Baseline Project Schedule (Article 9). The Baseline Project Schedule includes a tentative schedule of events and dates. The Baseline Project Schedule is subject to change as deemed appropriate by the Owner.

ARTICLE 5 CMAR REQUEST FOR PROPOSALS SUBMITTAL REQUIREMENTS

The submittal shall be bound and indexed, shall be separated into the following specific categories, and the information within each category shall be ordered to match those listed in this request for proposals.

A cover letter shall be included that addresses pertinent general information as deemed appropriate by the CMAR. The cover letter shall also include the appropriate contact person at the CMAR firm, along with their phone number and e-mail address, and a list of 3 references with their contact information.

CMAR Firm General Information

Firm Information

Provide firm name, business address, year established, type of firm ownership (i.e., single source, joint venture), name and address of parent company, former parent company names, name and contact information for principal personnel, areas of responsibility, and total number of personnel.

Firm Organizational Chart

Indicate lines of responsibility and/or communication.

Current Workload

Provide a list and a summary paragraph describing the firm's current workload, including a list of project names and the associated contract values.

1. Key Personnel Qualifications

- a. Provide a resume for each key person that will be assigned to this project. Include their name and title, project assignment, total years of construction experience, years of experience with CMAR, years of experience with this firm, education including degree(s), year and discipline, active registrations and licenses including the number and State, other qualifications, and experience. Also, provide a summary of any experience with CMAR pre-construction services.
- b. Describe the specific role performed on each project listed in the resume, highlighting projects of similar size and scope where the person's role was similar to their role on this project.
- c. As a minimum, provide resumes (that include qualifications and experience) for the Project Manager, Superintendent, Estimator, and Schedule Coordinator. Provide this information for both the Pre-Construction and Construction phases, if different personnel will be utilized.
- d. Provide a project-specific organizational chart.

2. Project Experience (Similar Projects)

- a. Include experience on up to 10 projects of similar size and scope in either public or private sector. Include project name, project description, client references for each project (including contact name, address, and telephone), completion date, project budget, type of services provided, and other pertinent information.
- b. Include any applicable experience in the State of Nevada.
- c. Include a statement as to whether the proposed key personnel were involved in any of the listed projects.
- d. Specify the delivery method utilized for each of the listed projects. Relevant project experience may include projects using any delivery method, including without limitation, CMAR, Design-Build, Design-Assist, Negotiated, or Value-Engineered work.

3. Past Performance

For each project listed under project experience (above) provide the following information:

- a. List the name, location, and a general description of each project.
- b. List your firm's record of cost performance (list contract award amount versus final construction cost). Explain any cost deviations.

- c. List your firm's record of schedule performance (list original schedule versus final completion date). Explain any schedule deviations.

4. Project Implementation Plan

- a. Describe your approach to performing pre-construction services.
- b. Describe your subcontractor qualification process.
- c. Describe how you will involve subcontractors in the pre-construction process.
- d. Describe how you will obtain subcontractor bids (in accordance with CMAR General Conditions Section 3.17 and with Nevada Revised Statutes Sections 338.16991 and 338.16995).
- e. Describe your approach to incorporating Virtual Construction and Building Information Modeling (BIM).
- f. Describe your approach to performing construction administration and management.
- g. Describe your approach to controlling the project construction budget and schedule.
- h. Describe your approach to performing quality assurance/quality control during construction.
- i. Describe your approach to achieving project close-out (commissioning, punch-list completion, and warranty work).
- j. Describe your approach to achieving compliance with Nevada Revised Statutes Section 338.130 (which requires the preferential employment of honorably discharged veterans and citizens of the State of Nevada in the construction of public works).

5. Safety Program

- a. Provide a summary description of your safety program including sample documentation/forms.
- b. Provide a summary description of your safety program implementation plan, including assigned personnel and the percentage of their time that will be allocated to this project.
- c. Provide your safety record for the last 5 years.

6. Miscellaneous Submittal Requirements

- a. CMAR shall include a copy of his current Certificate of Eligibility (when/if applicable).
- b. CMAR shall include a copy of the signed Affidavit of Compliance (when/if applicable).
- c. CMAR shall include a copy of his current Nevada Contractor's License.
- d. CMAR shall include a copy of his current Qualified Bidder Status letter (per NRS 338.1379).
- e. CMAR shall submit a statement as to whether his firm has been found liable for breach of contract with respect to a previous project, other than breach for legitimate cause, during the 5 years preceding the date of this Request for Proposals.
- f. CMAR shall submit a statement as to whether his firm has been disqualified from being awarded a contract pursuant to Nevada Revised Statutes Sections 338.017 or 338.13895.

7. Insurance and Bonding Capacity

- a. Submit evidence of ability to obtain all insurance as stipulated in the CMAR General Conditions of the Contract.
- b. Submit evidence of the financial capability of your bonding company.
- c. Submit evidence that your bonding company is listed by the United States Treasury.
- d. Submit written certification or other appropriate evidence from your bonding company confirming that your firm will have bonding capacity if this project, estimated at the value listed in Article 1 of this Request for Proposals, is added to your current and anticipated workload.
- e. Submit evidence that your firm is covered by workers compensation insurance as stipulated in the CMAR General Conditions of the Contract.

ARTICLE 6 CMAR SELECTION SCHEDULE

The following dates are tentative and are subject to revision by the Owner:

	<u>Date</u>
Pre-Proposal Meeting	10/22/25 at
(Location TBD – Carson City, NV)	2:30 PM (local time)
Notification Letter Issued to Short-Listed CMAR Firms	11/14/25
CMAR Interview Submittal due in SPWD Office	11/21/25
Board of Examiners Approval of Owner-CMAR Pre-Construction Agreement	2/10/25 (Tentative)

ARTICLE 7 CMAR SELECTION PROCESS

The CMAR selection process will be conducted in accordance with all of the requirements stipulated in Nevada Revised Statutes Chapters 338 and 341 and Nevada Administrative Code Chapters 338 and 341.

A short-list of between 2 and 5 CMAR firms will be determined based on proposals only. Each of the short-listed firms will be asked to prepare and submit a CMAR Fee Proposal responding to the CMAR Interview Submittal. The final selection will be based on the interview and the CMAR Fee Proposal (see Final Selection Criteria and Weighting listed in Article 8).

ARTICLE 8 CMAR EVALUATION AND SELECTION CRITERIA

Evaluation of the CMAR firms will be based on the information requested and provided in the CMAR's Proposal. The defined categories will be evaluated on a percentage score or on a pass/fail basis, as may be applicable. All proposers understand and accept that the weighted selection criteria are both subjective and objective by nature and that the weight factor of each category is intended to define its relative importance. The final ranking of each firm will be based on a combined evaluation of all applicable criteria. By submitting a Proposal, the proposer acknowledges that the State Public Works Division has sole and absolute discretion in determining the selection criteria and in evaluating the proposer based on the selection criteria in each category.

Short-List Selection Criteria and Weighting

1. Key Personnel Qualifications	25 Points
2. Project Experience (Similar Projects)	20 Points
3. Past Performance	20 Points
4. Project Implementation Plan	25 Points
5. Safety Program	5 Points
6. Certificate of Eligibility	<u>5 Points</u>
Short-List Selection Point Subtotal	100 Points
Nevada Licensed Contractor	Pass/Fail
Qualified Bidder Status	Pass/Fail
Prior Breach of Contract	Pass/Fail
Prior Disqualification	Pass/Fail

Final Selection Criteria and Weighting

1. Key Personnel Qualifications	20 Points
2. Project Experience (Similar Projects)	10 Points
3. Past Performance	10 Points

4. Project Implementation Plan	20 Points
5. Safety Program	5 Points
6. Certificate of Eligibility	5 Points
7. CMAR Fee Proposal	20 Points
8. Interview	<u>10 Points</u>
Final Selection Point Total	100 Points

The CMAR Fee Proposal will be evaluated and scored based on the costs and fees listed in Articles No. 2 thru 6 in the CMAR Fee Proposal.

Scores will be calculated by dividing the lowest Proposed Fee Arrangement by the applicant's Proposed Fee Arrangement multiplied by the total possible 20 points.

ARTICLE 9 SAMPLE CMAR PROJECT SCHEDULE

Attached with this agreement is an example project schedule with example durations for tasks expected with this project.

CMAR PRE-PROPOSAL MEETING SIGN-IN SHEET

Project Identification

Project Name: Building Repairs and West Plaza Replacement; Freight Elevator Repairs; Basement Tenant Improvements - NSLA
 Project Address: 100 N. Stewart St., Carson City, Nevada 89701
 SPWD Project No.: #25-M08, #25-S07-1, and #23-C15
 Meeting Date: October 22, 2025
 SPWD Project Manager: Kyle Fischer

Name	Company	Phone	Email
Scott Higgins	Platinum Builders	775-302-6419	shiggins@platinumbuilders.com
Cavan Van Geem	Platinum Builders	775-399-0795	cvanveen@platinumbuilders.com
GREG MEEHAN	Platinum Builders	775-302-6438	gmeehan@platinumbuilders.com
Jerry Hogan	Clark/Sullivan Construction	775-355-8500	jhogan@clarksullivan.com
Carzalo Arellano	Gilbane Building Company	775-521-6165	carellan@gilbaneco.com
BECK ARNOT	GILBANE	602-763-2541	BARNOT@GILBANECO.COM
LEE MURRAY	H+K ARCHITECTS	775-870-4879	LEE@HKARCHITECTS.COM
JEFF KLIPPENSTEIN	H+K ARCHITECTS	775-772-3141	JEFF@HKARCHITECTS.COM
Kyle Fischer	SPWD	775-315-0581	KFischer@admin.nv.gov

The following documents are for reference only.
The approved demo plans will be provided at a
later date.

NEVADA STATE LIBRARY & ARCHIVES BASEMENT TENANT IMPROVEMENT

DEMO AND STRUCTURAL ASSESSMENT
100 NORTH STEWART STREET, CARSON CITY, NV 89701
SPWD PROJECT #23-C15, SITE #9866, BLDG. #1675

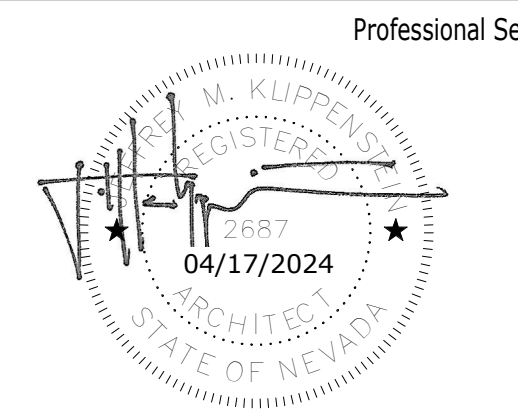


STATE OF NEVADA PUBLIC WORKS DIVISION
1515 EAST MUSSER STREET, RM 102
CARSON CITY, NV 89701

SPWD PROJECT #23-C15, SITE #9866, BLDG. #1675

April 17, 2024

Construction Documents



Professional Seal Date Revision

© Copyright H + K Architects

Consultant

H+K ARCHITECTS
5485 Reno Corporate Drive, Suite 100
Reno, Nevada 89511-2262
P 775-332-6640
F 775-332-6642
hkarchitects.com

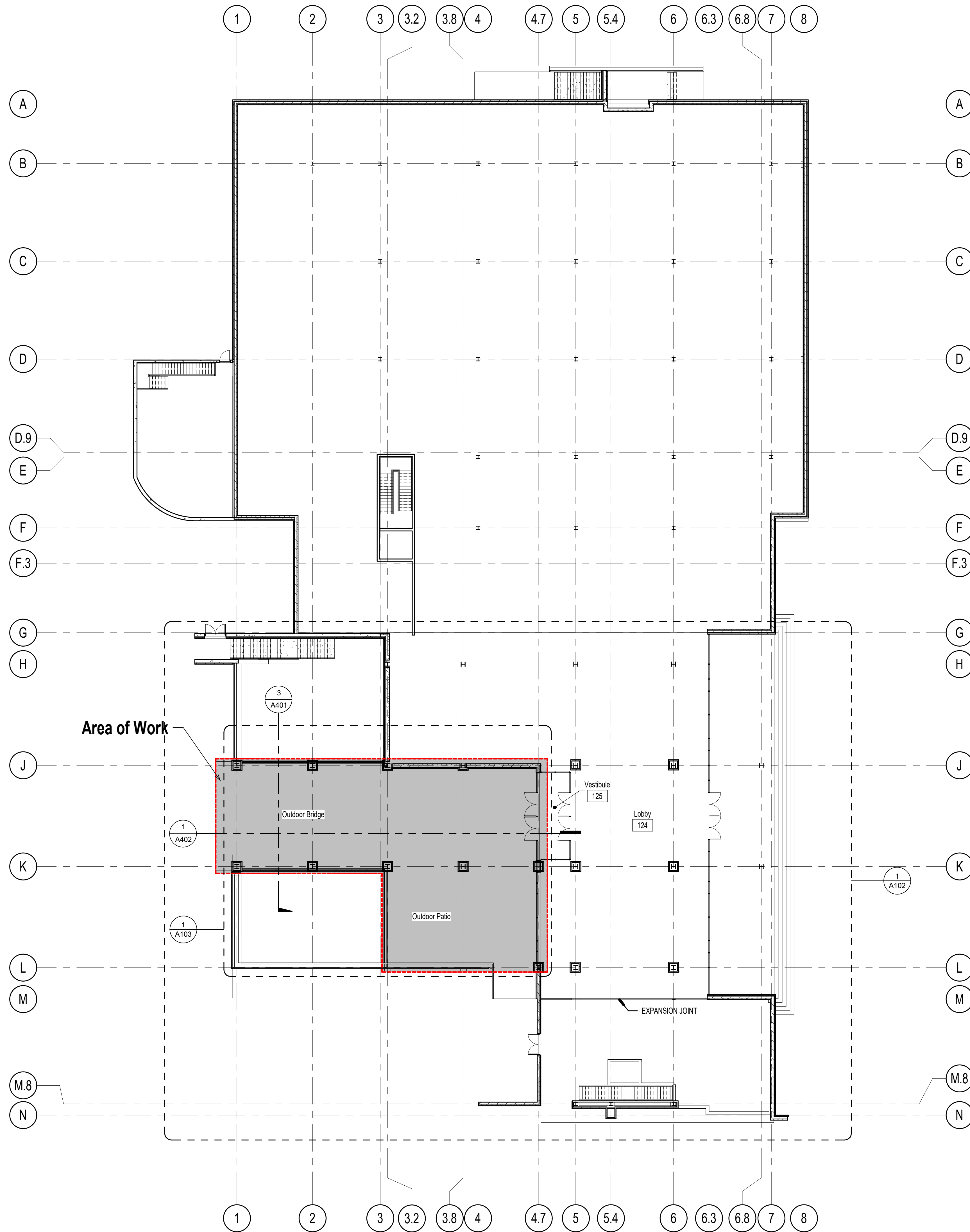
**NEVADA STATE LIBRARY & ARCHIVES
BASEMENT TENANT IMPROVEMENT**
SPWD PROJECT #23-C15, SITE #9866, BLDG. #1675
DEMO AND STRUCTURAL ASSESSMENT
100 NORTH STEWART STREET, CARSON CITY, NV 89701

Title Sheet

April 17, 2024
H+K Project No: 2402

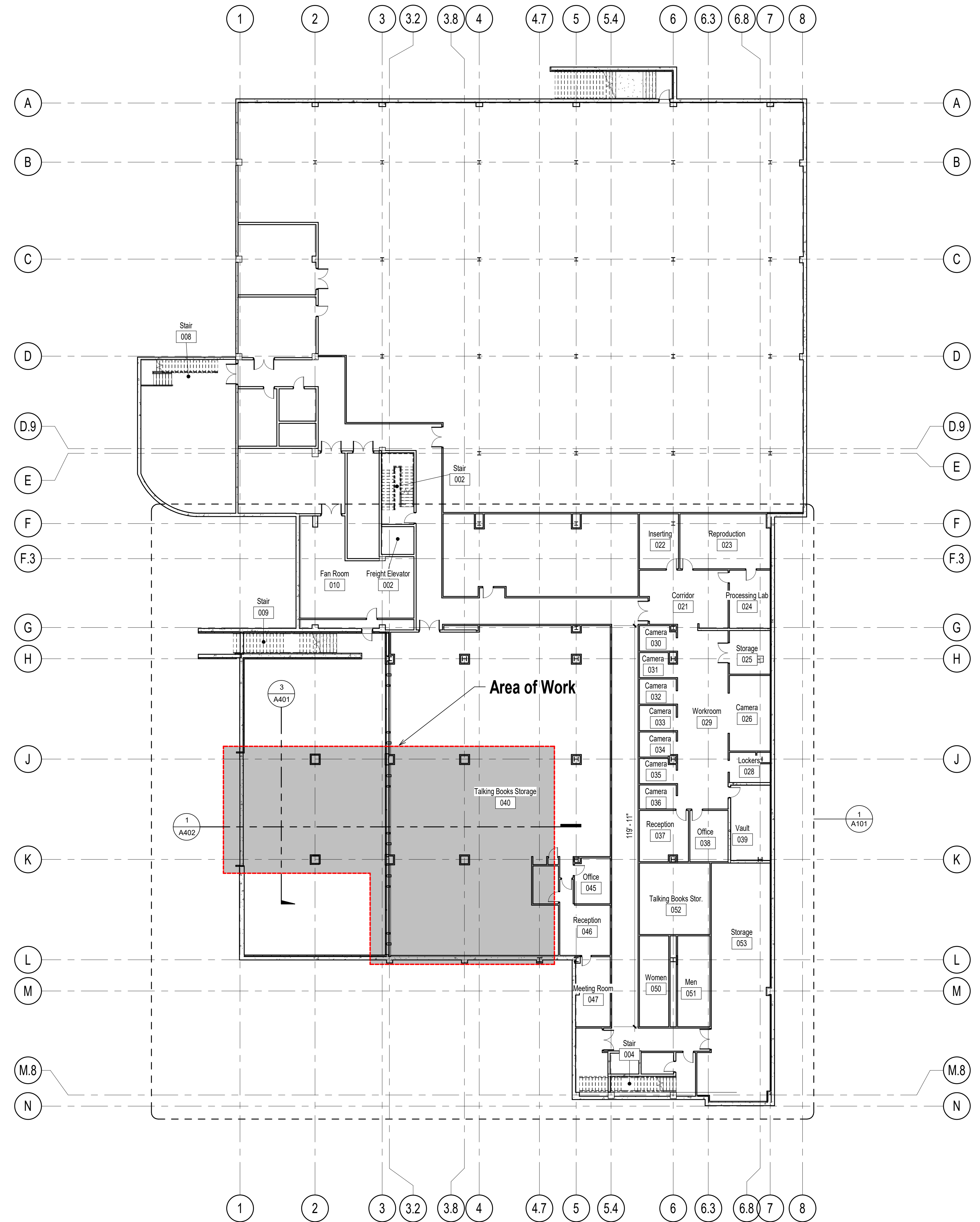
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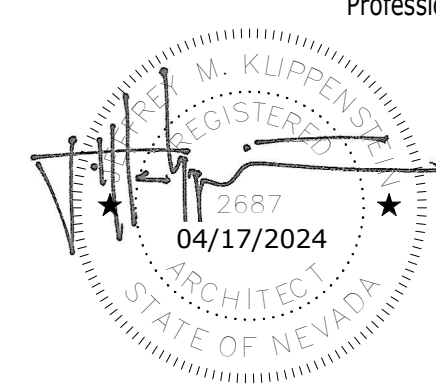
2 Existing Main Level Plan

1/16" = 1'-0"



1 Existing Lower Level Plan

1/16" = 1'-0"



Professional Seal

△ Date Revision

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Consultant

H+K ARCHITECTS
5485 Reno Corporate Drive, Suite 100
Reno, Nevada 89511-2262
P 775+332+6640
F 775+332+6642
hkarchitects.com

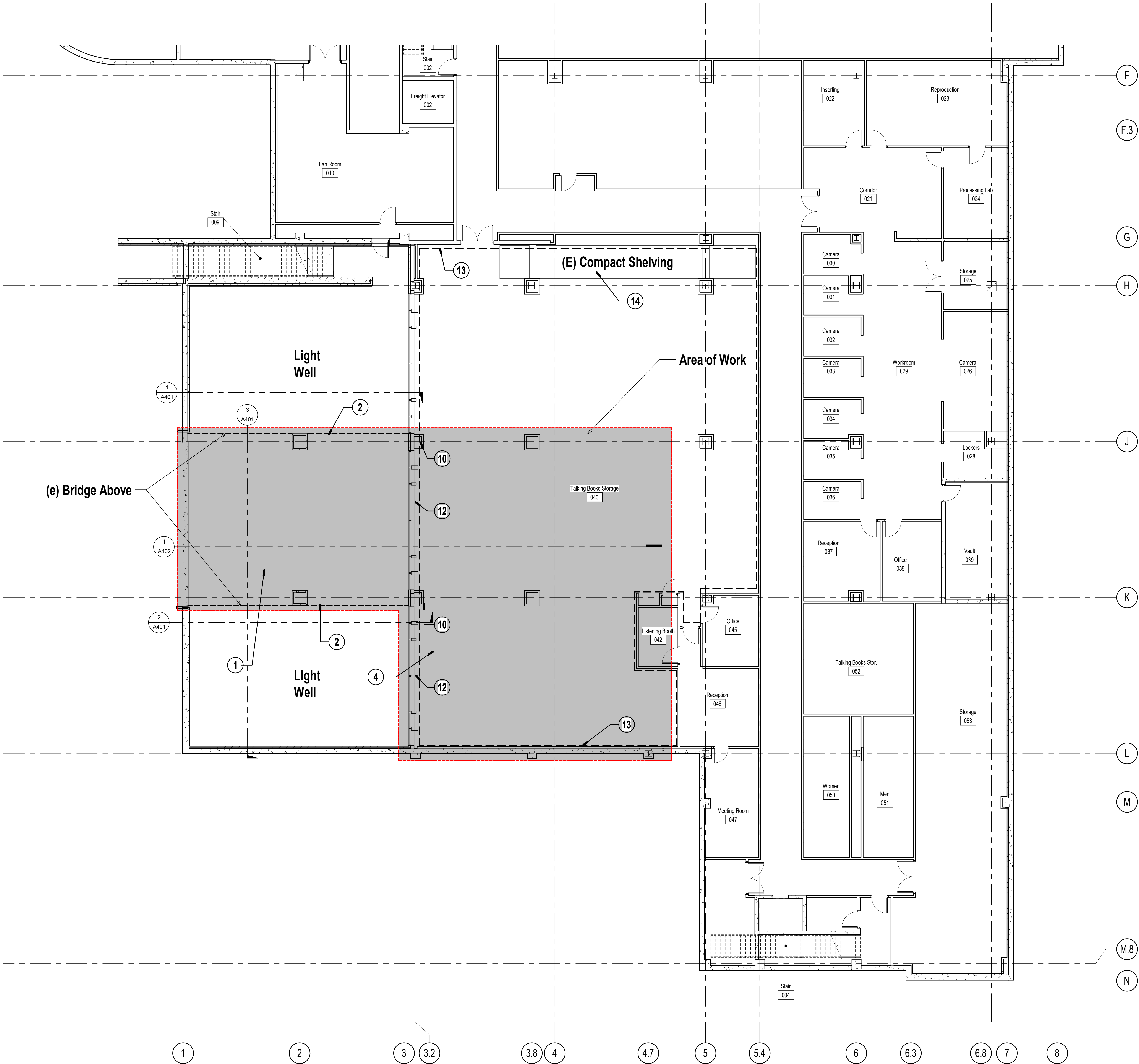
NEVADA STATE LIBRARY & ARCHIVES
BASEMENT TENANT IMPROVEMENT
SPWD PROJECT #23-C15, SITE #9866, BLDG. #1675
DEMO AND STRUCTURAL ASSESSMENT
100 NORTH STEWART STREET, CARSON CITY, NV 89701

Overall Floor Plans

April 17, 2024
H+K Project No: 2402

A100





Demolition Notes

- For the purpose of Architectural work, all items not shown to be removed or altered on this sheet shall remain in their existing condition. This pertains to all equipment and other consultant's work. See other disciplines for additional demolition and alterations to utilities. Notify the Architect of any components which vary from those shown on the drawings.
- In the event that demolition work creates a condition where existing spaces are open to the weather, the Contractor shall protect the building from the effects of exposure from exterior conditions. These conditions shall be weather-tight at the conclusion of his work each night. At the conclusion of his work in that area the Contractor is to replace all removed components to a weather-tight condition to match adjacent finishes.
- There will be selective demolition for Structural, Electrical and Mechanical components. This demolition is to facilitate the replacement and/or new installation of Structural, Electrical and Mechanical components. Although this demolition may not appear specifically on this sheet, the Contractor shall include in his bid all demolition work for the removal of required building materials necessary for the installation of these components.
- See Selective Demolition, Cutting and Patching sections in Project Manual for additional demolition requirements.
- Protected adjacent surfaces to remain from damage. Contractor is to repair or replace all finishes that are damaged or removed due to the installation or removal of any materials, fixtures, accessories or construction noted on these drawings. Repaired or replaced finishes shall match adjacent existing surfaces.
- Room names and numbers shown on this sheet are for demolition purposes only and refer only to the Existing Room Finish Schedule shown on this sheet.
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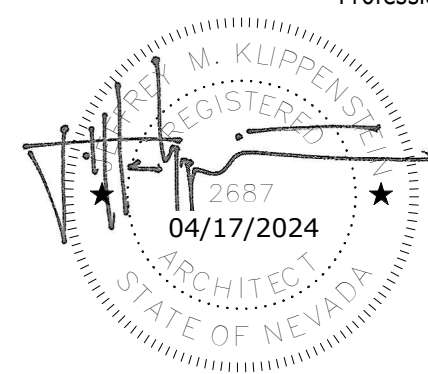
Demolition Keynotes

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- Remove (E) Brick Veneer at sides of bridge. See detail 2/A701. Salvage brick for reinstallation.
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- Remove (E) Suspended Ceiling System. See demolition limits on reflected ceiling plans. Remove and salvage all ceiling tiles. Existing electrical fixtures and HVAC ductwork shall remain in place. Wire to deck above as necessary. Remove all spray-applied fire proofing material from steel beams and underside of metal deck above. Contractor shall deactivate return / recirculation air while demolition activities are occurring.
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- Remove all spray-applied fireproofing material from steel beams and underside of metal deck above. Existing electrical fixtures and HVAC ductwork shall remain in place.
- Remove gypsum board and rigid insulation at exterior walls from deck / ceiling to +1'-24" below deck / ceiling. Where steel beam extends below the 24" line, remove gyp. bd. & insulation min. 12" on sides & bottom of beam.
- Remove (E) Batt Insulation.
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- Remove (E) compact shelving.

1 Existing Enlarged Partial Lower Demolition Plan

1/8" = 1'-0"

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SPWD PROJECT #23-C15, SITE #9866, BLDG. #1675

DEMO AND STRUCTURAL ASSESSMENT

100 NORTH STEWART STREET, CARSON CITY, NV 89701

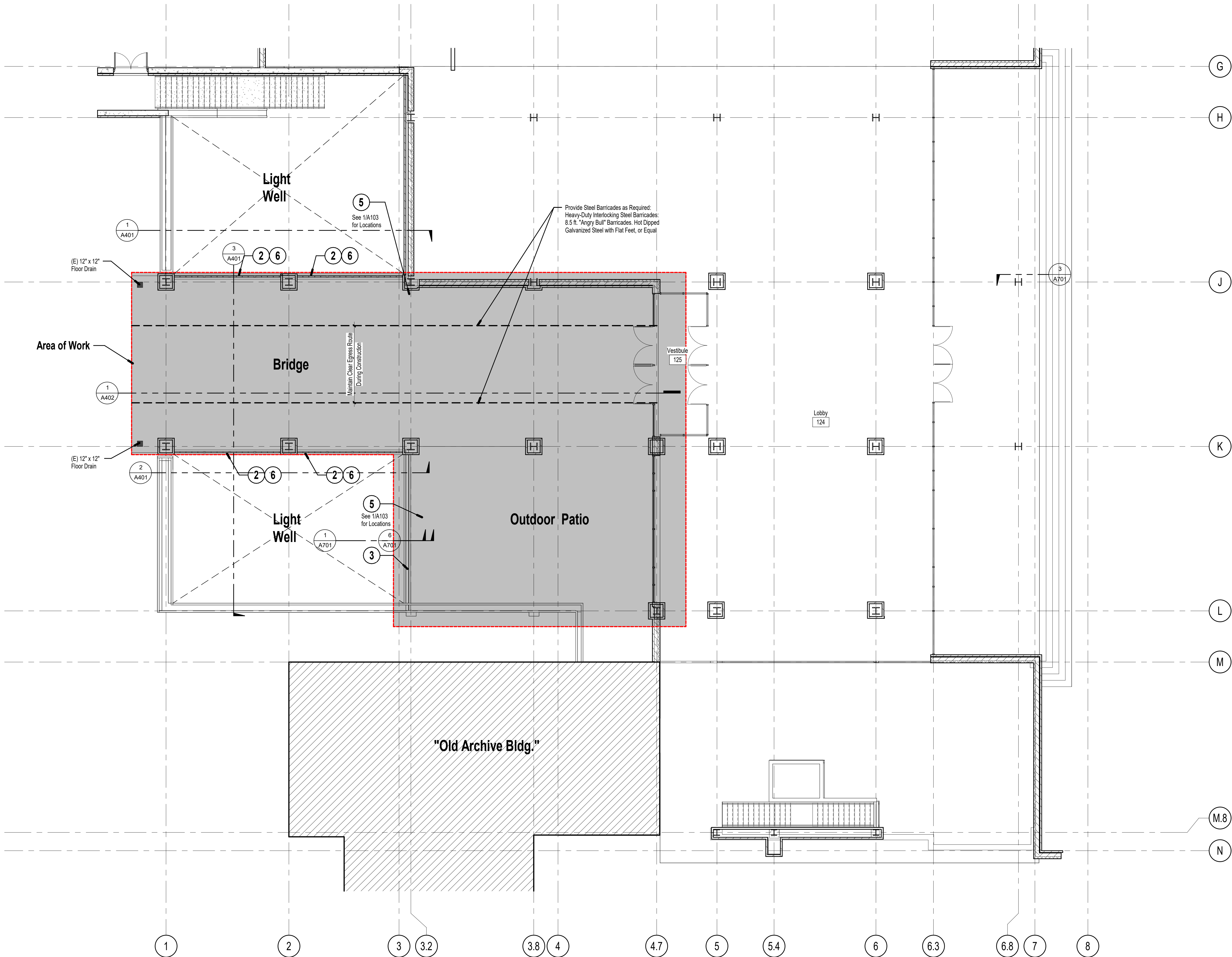
Existing Partial Lower
Level Demo Floor Plan

April 17, 2024
H+K Project No: 2402

A101



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1 Existing Partial Main Level Demolition Plan

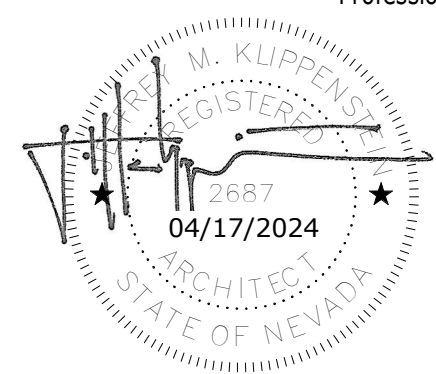
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- Remove (E) compact shelving.



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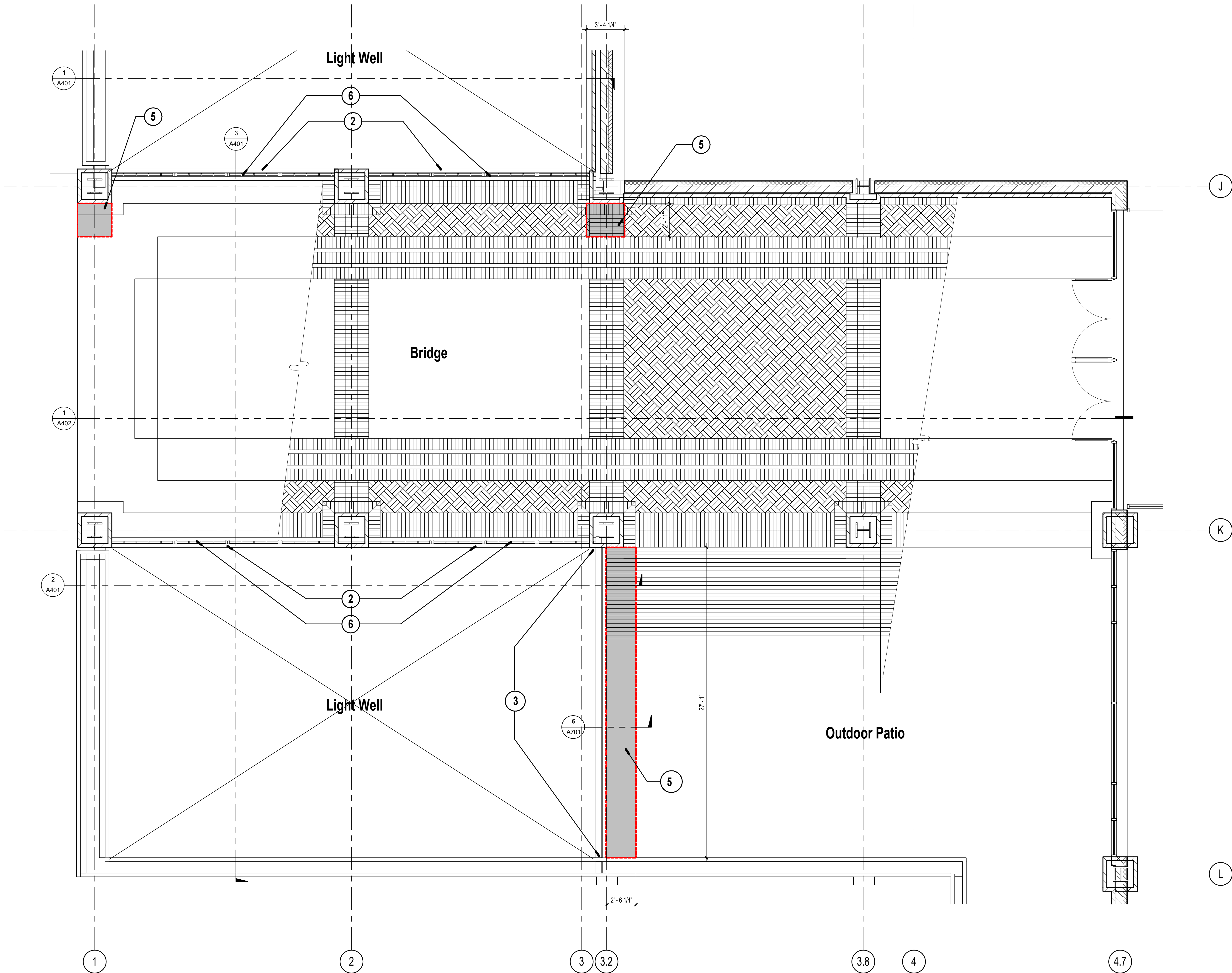
DEMO AND STRUCTURAL ASSESSMENT
100 NORTH STEWART STREET, CARSON CITY, NV 89701

Existing Partial Main
Level Demo Floor Plan

April 17, 2024
H+K Project No: 2402

A102





Demolition Notes

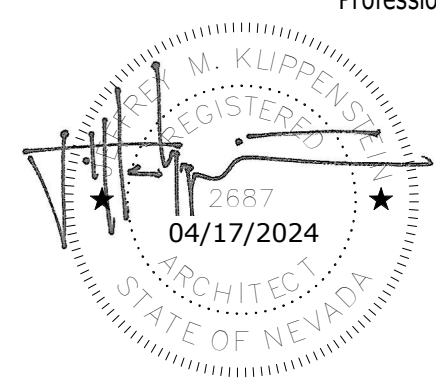
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1 (E) Main Level Enlarged Exterior Bridge Plan

1/4" = 1'-0"



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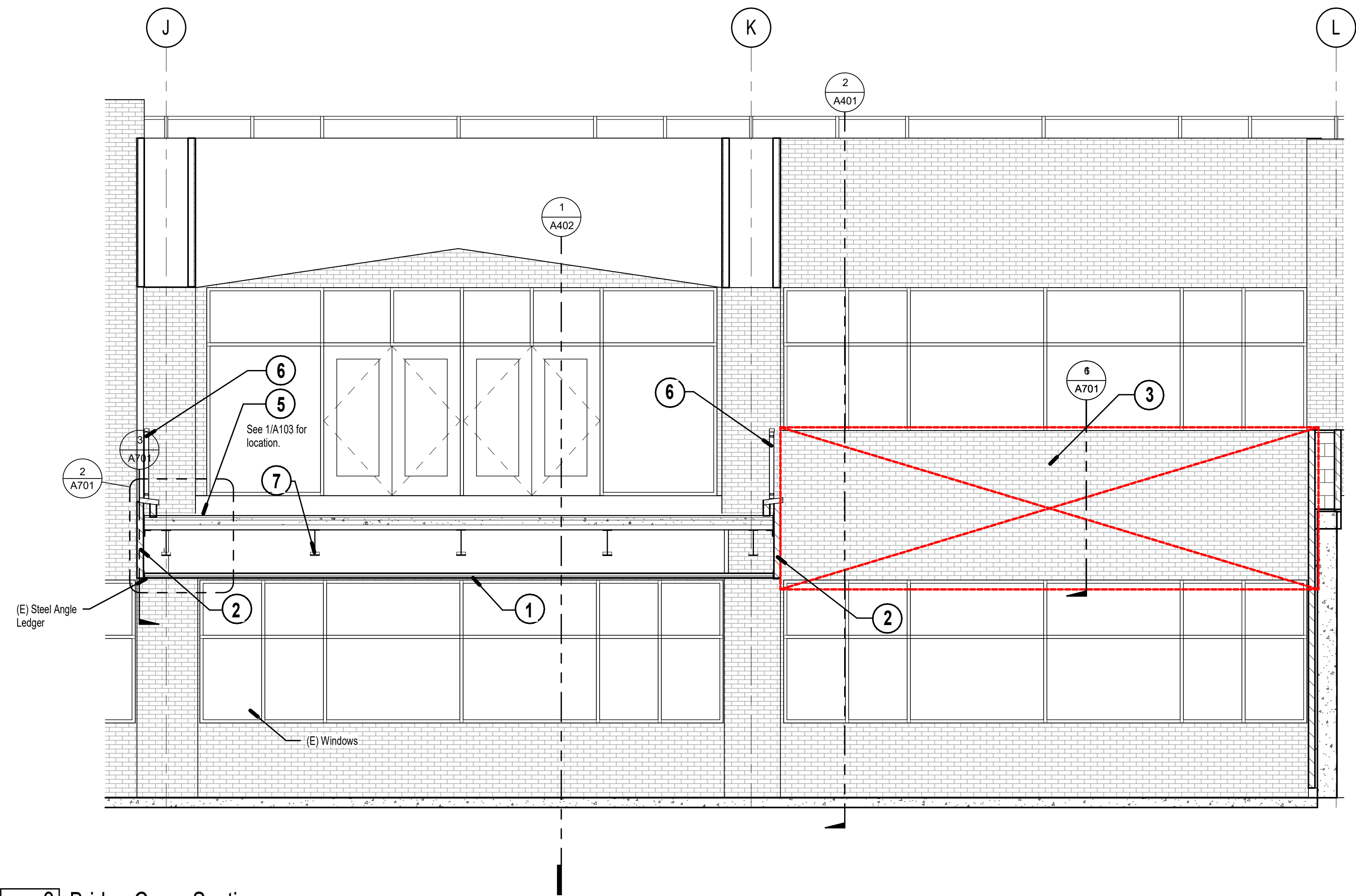
DEMO AND STRUCTURAL ASSESSMENT
100 NORTH STEWART STREET, CARSON CITY, NV 89701

Main Level Bridge Paver
and Demolition Plan

April 17, 2024
H+K Project No: 2402

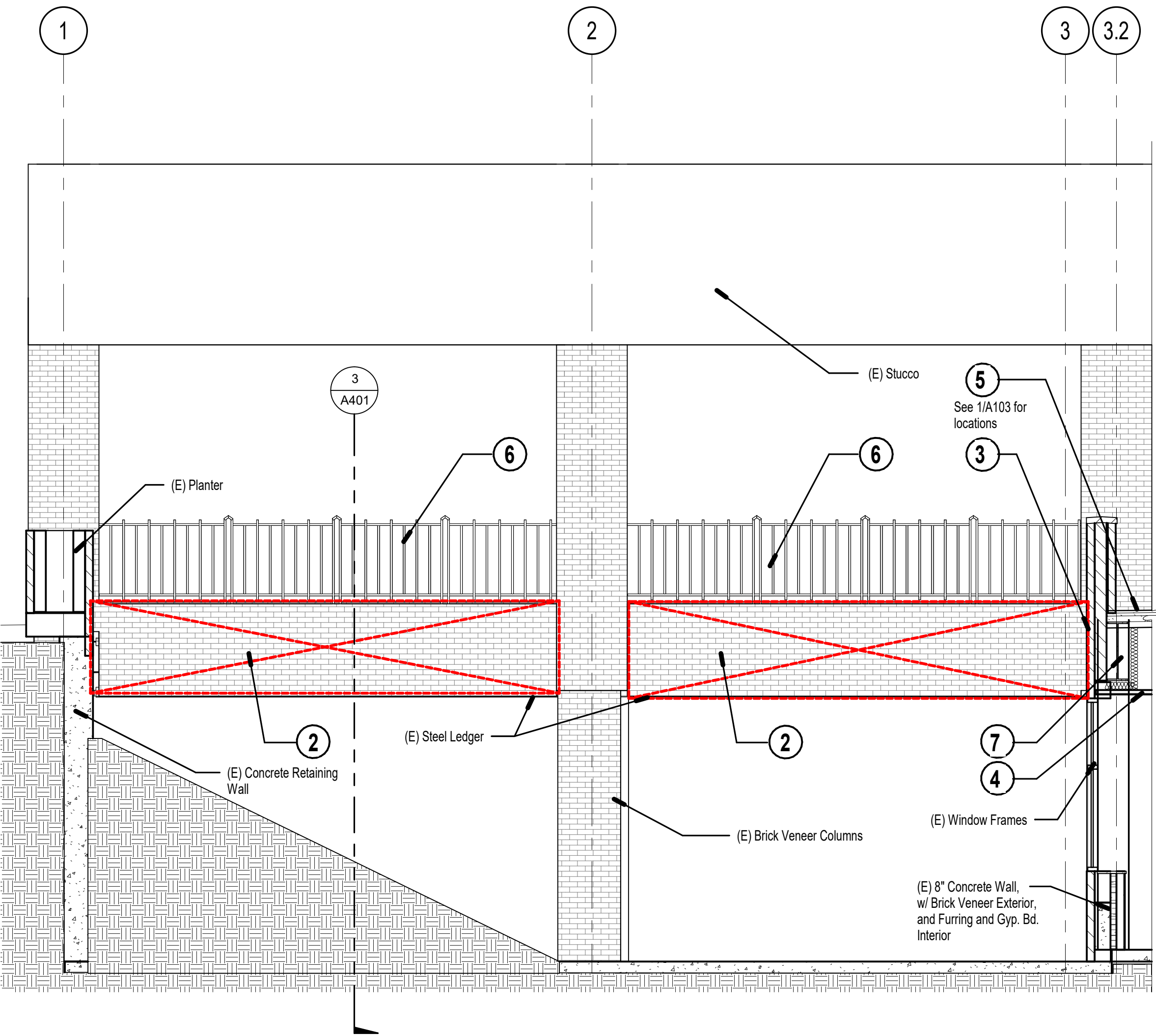
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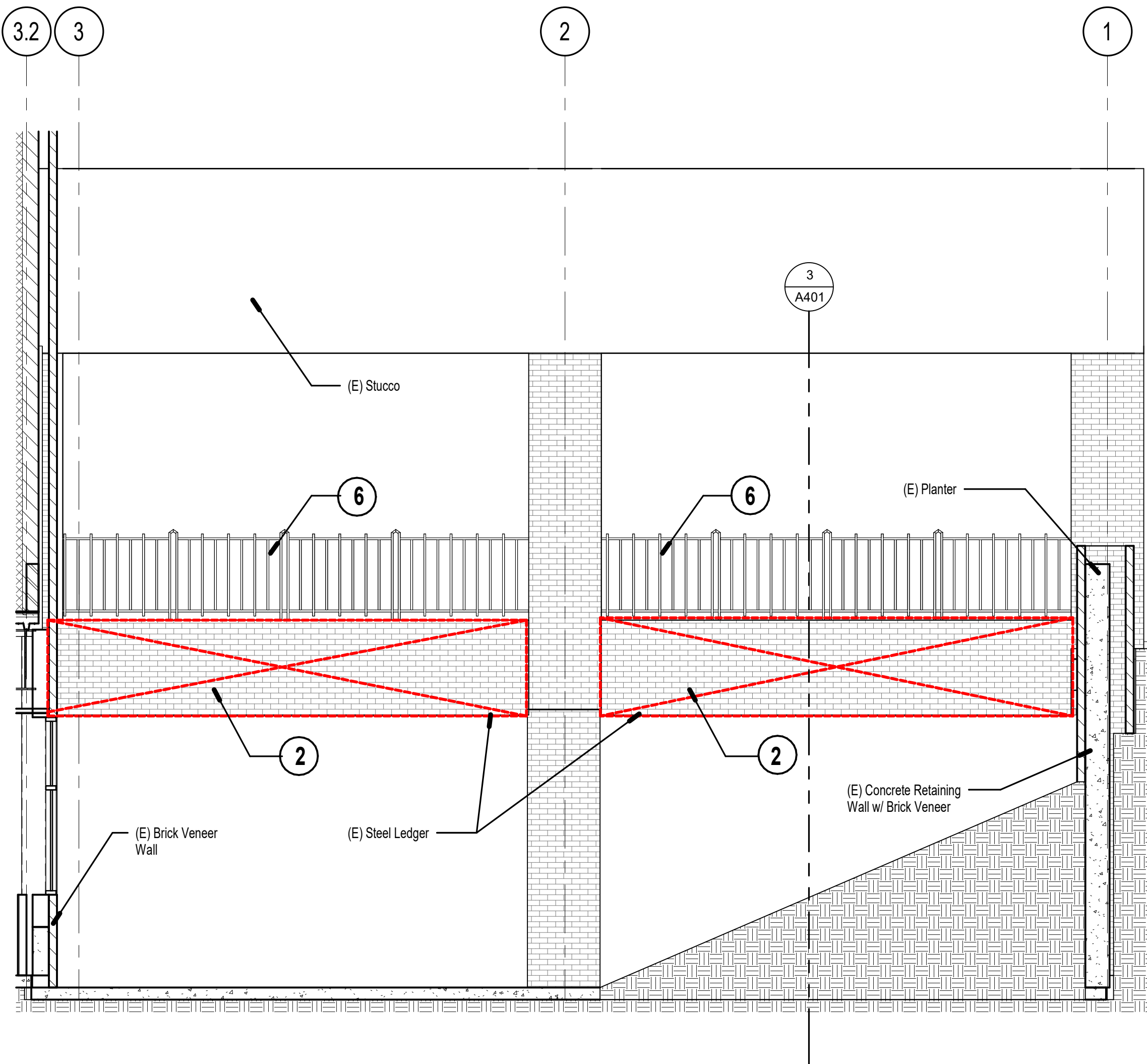
3 Bridge Cross Section

1/4" = 1'-0"



2 South Elevation of Bridge

1/4" = 1'-0"



1 North Elevation of Bridge

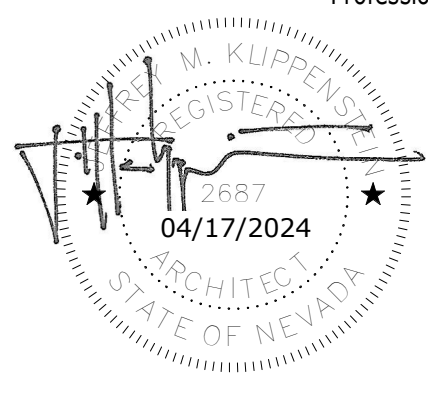
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SPWD PROJECT #23-C15, SITE #9866, BLDG. #1675

DEMO AND STRUCTURAL ASSESSMENT
100 NORTH STEWART STREET, CARSON CITY, NV 89701

Building Sections

April 17, 2024
H+K Project No: 2402

A401

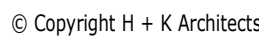


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- 5 Remove (E) Brick Pavers and current setting bed in locations shown. Salvage brick pavers for reinstallation. Remove coverboard and waterproofing membrane to expose concrete deck. After Structural assessment, reinstall brick pavers in mortar setting bed. See detail 5/A701.
- 6 Remove (E) railings as shown. Salvage railings for reinstallation.
- 7 Remove all spray-applied fireproofing material from steel beams and underside of metal deck above. Existing electrical fixtures and HVAC ductwork shall remain in place.
- 8 Remove gypsum board and rigid insulation at exterior walls from deck / ceiling to +/- 24" below deck / ceiling. Where steel beam extends below the 24" line, remove gyp. bd. & insulation min. 12" on sides & bottom of beam.
- 9 Remove (E) Batt Insulation.
- 10 Remove (E) gyp. bd. & metal stud framing at interior side of column. remove spray applied fire proofing from floor to deck on column.
- 11 Remove (E) gypsum board ceiling assembly, and remove spray applied fire proofing from exposed beams & underside of metal deck above.
- 12 Remove (E) gypsum board & metal stud framing above windows. Remove spray applied fireproofing from steel beams.
- 13 Remove (E) carpet in "Talking Book Storage 040. "
- 14 Remove (E) compact shelving.



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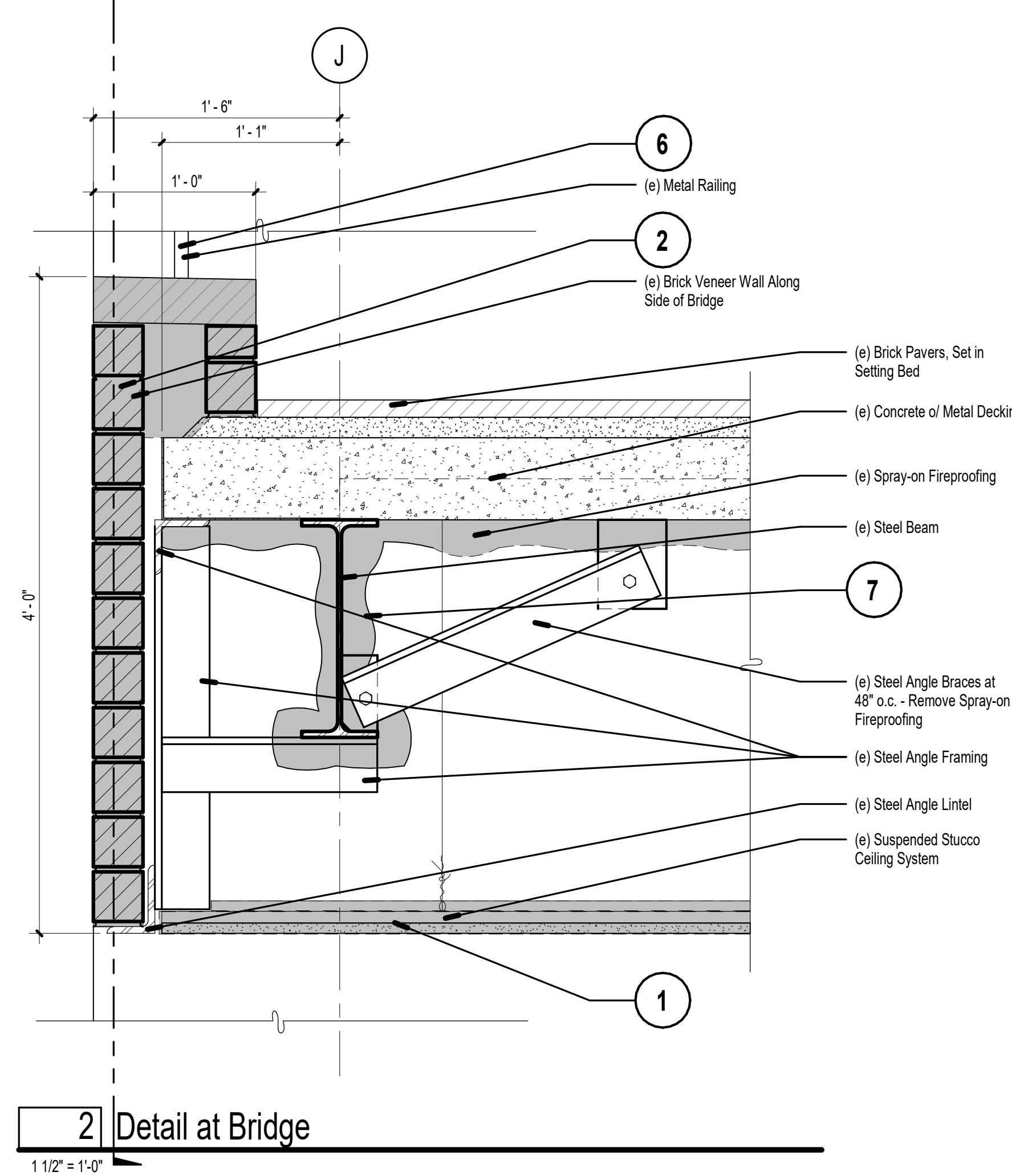
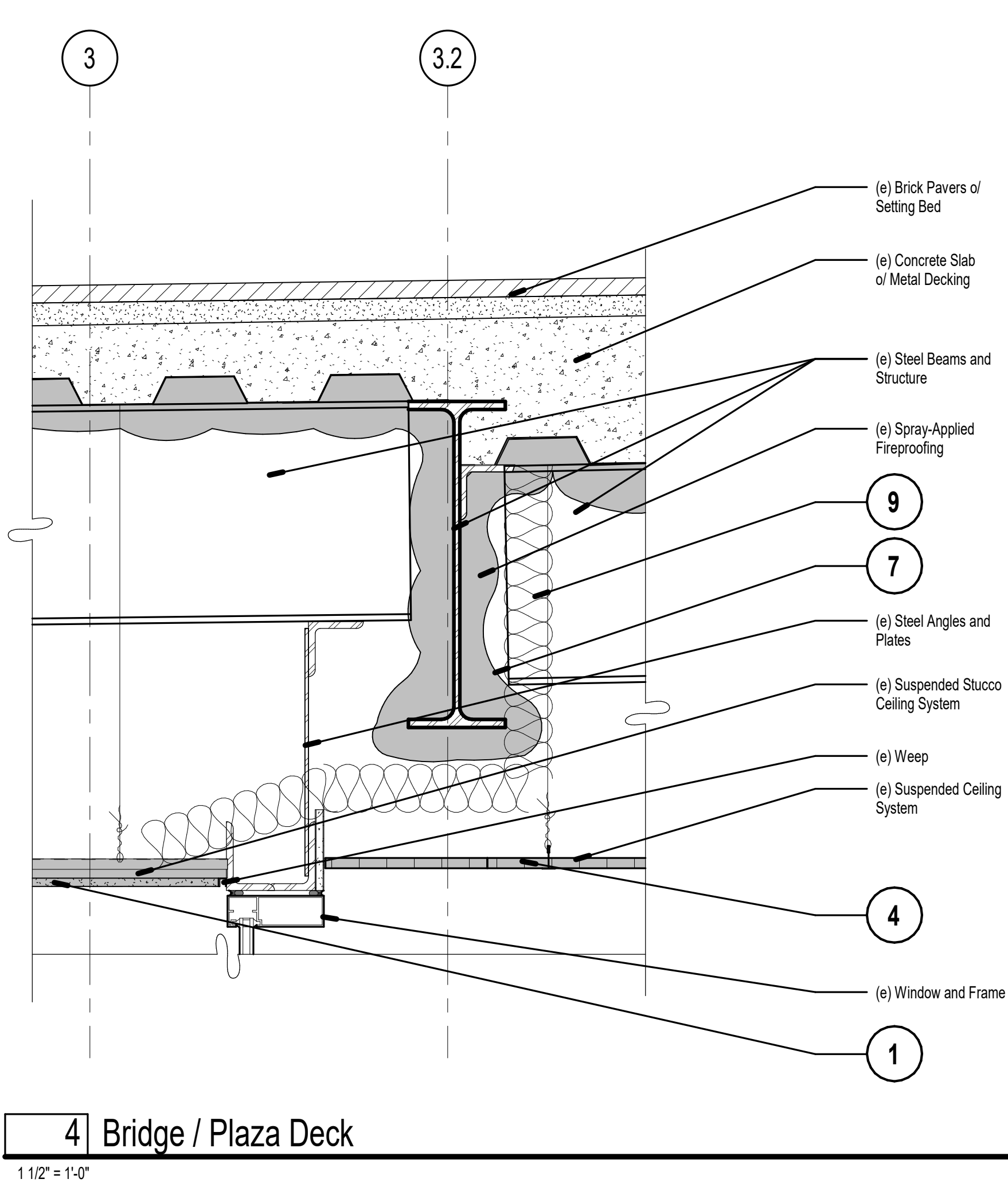
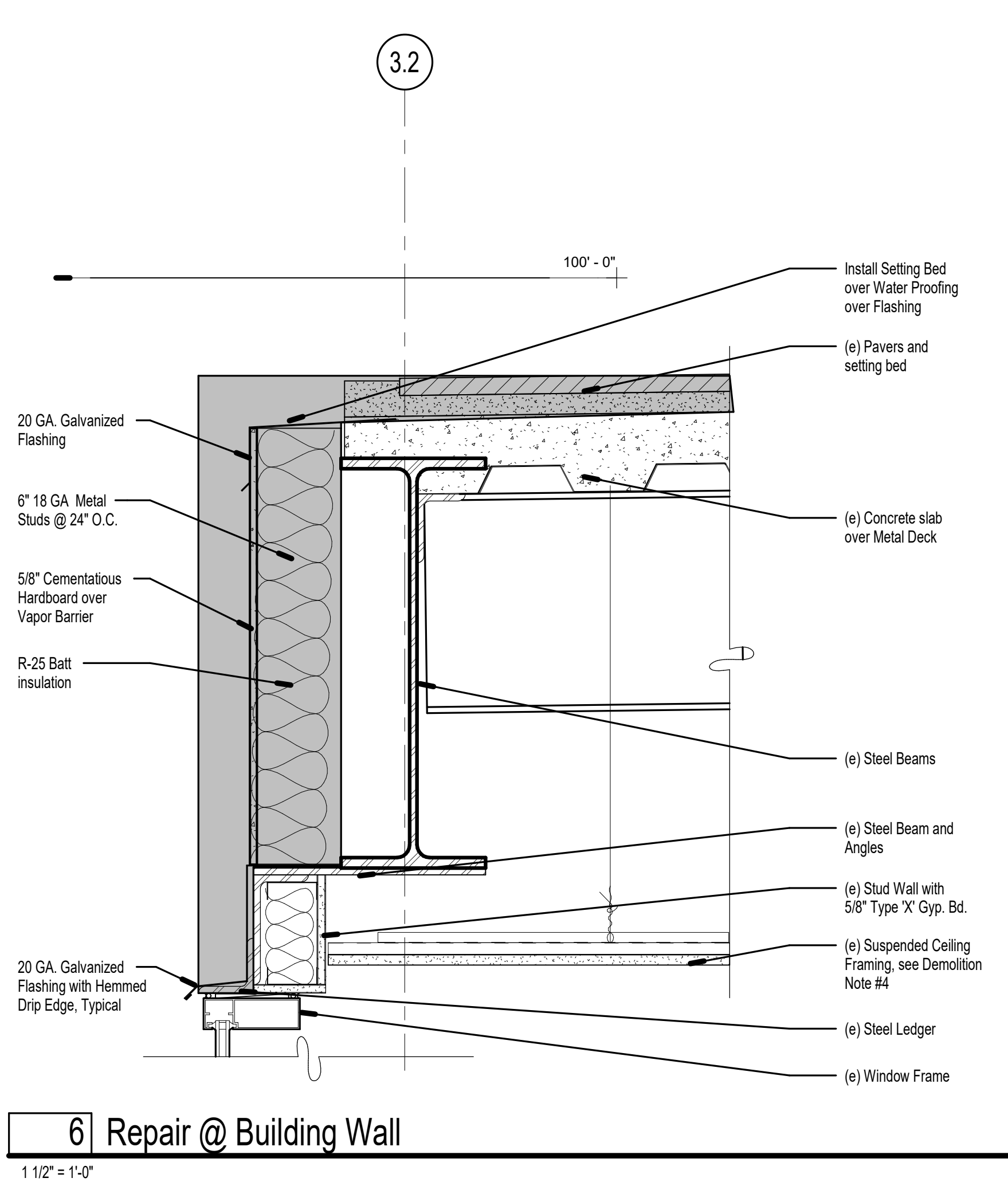


1. For the purpose of Architectural work, all items not shown to be removed or altered on this sheet shall remain in their existing condition. This pertains to all equipment and other consultant's work. See other disciplines for additional demobilization and alterations to utilities. Notify the Architect of any components which vary from those shown on the drawings.
2. In the event that demolition work creates a condition where existing spaces are open to the weather, the Contractor shall protect the building from the effects of exposure from exterior conditions. These conditions shall be weather-tight at the conclusion of this work each night. At the conclusion of his work in that area the Contractor is to replace all removed components to a weather-tight condition to match adjacent finishes.
3. There will be selective demolition for Structural, Electrical and Mechanical components. This demolition is to facilitate the replacement and/or new installation of Structural, Electrical and Mechanical components. Although this demolition may not appear specifically on this sheet, the Contractor shall include in his bid all demolition work for the removal of required building materials necessary for the installation of these components.
4. See Selective Demolition, Cutting and Patching sections in Project Manual for additional demolition requirements.
5. Protect adjacent surfaces to remain from damage. Contractor is to repair or replace all finishes that are damaged or removed due to the installation or removal of any materials, fixtures, accessories or construction noted on these drawings. Repaired or replaced finishes shall match adjacent existing surfaces.
6. Room names and numbers shown on this sheet are for demolition purposes only and refer only to the Existing Room Finish Schedule shown on this sheet.
7. Refer to Ceiling Demolition Plan for extent of ceiling demolition.
8. The Contractor shall remove (e) wall finishes as required. The location of this demolition is shown on the Demolition Plan. The Contractor shall be responsible for setting the exact limits of demolition required in order to perform his work. All finishes removed shall be patched, repaired, or replaced to match adjacent finishes.
9. Trade, product or manufacturer's names or catalog numbers, and indicators or product types, such as 'glass fiber insulation', shown on the drawings for existing products are believed to be accurate. If they are discovered to be inaccurate, notify Architect immediately and do not proceed without instructions.
10. All dimensions are taken from Record Drawings. Dimensions must be field verified prior to the start of work.
11. Refer to Demolition Plan and Finish Schedule for treatment of (e) walls to remain. Patch locations where intersecting walls are removed from (e).
12. Existing fire sprinkler heads shall remain in place within ceilings shown to be removed and reinstalled. Remove (e) escutcheon plate and store for reinstallation after ceiling has been replaced. Contractor will take required measures to protect all sprinkler components during construction. Any damaged sprinkler components shall be replaced at no additional cost to the Owner.
13. Hazardous Material: Refer to specifications for additional information.
It is not expected that hazardous materials will be encountered in the work.
14. Definitions:
Remove: Detach items from existing construction and legally dispose of them off-site, unless indicated to be removed and salvaged or removed and reinstalled.
Remove and salvage: Carefully detach from existing construction, in a manner to prevent damage and deliver to Owner for reuse.
Remove and reinstall: Detach items from existing construction, prepare for reuse, and re-install them where indicated. Existing to remain: Existing items of construction that are not to be permanently removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled.

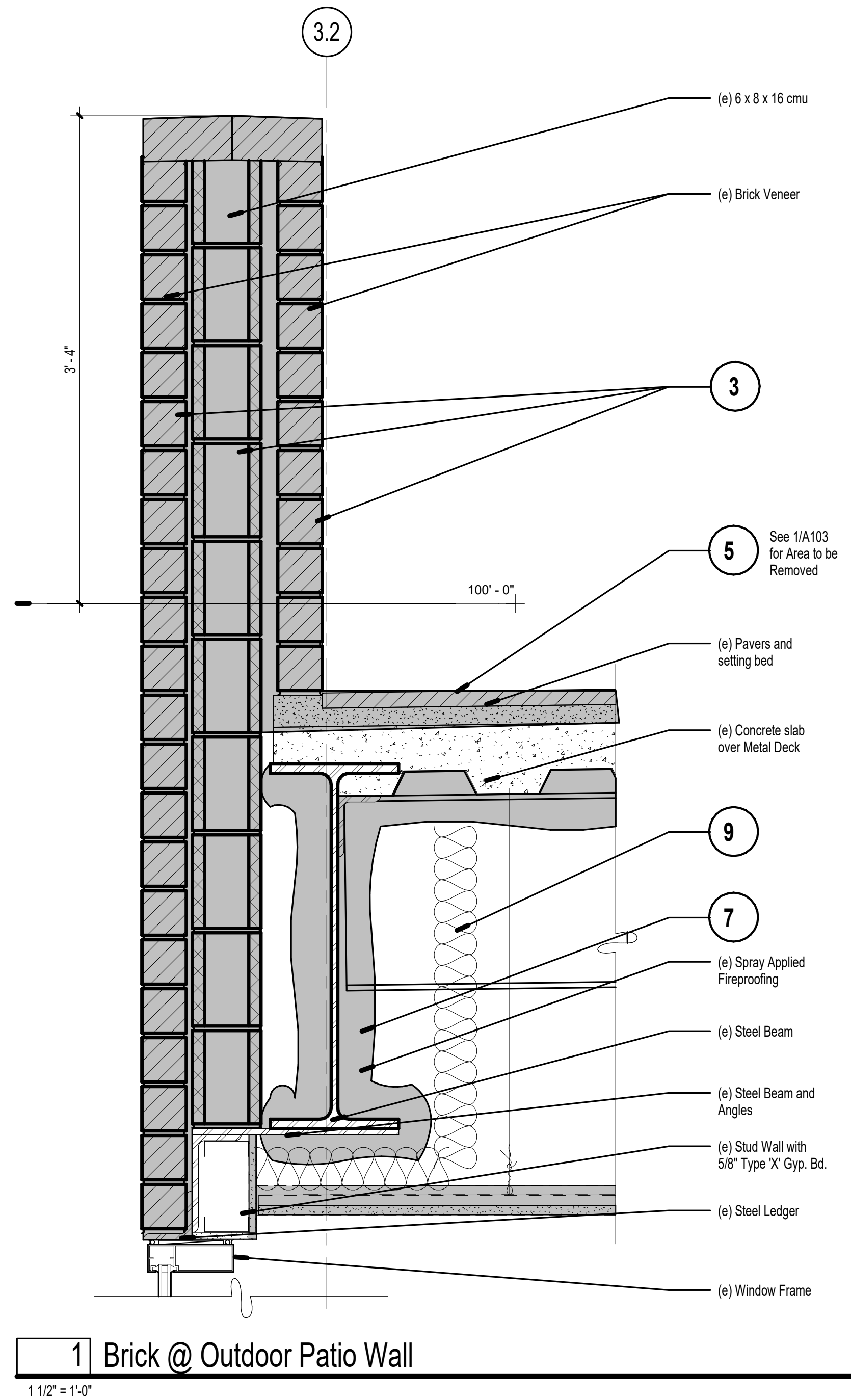
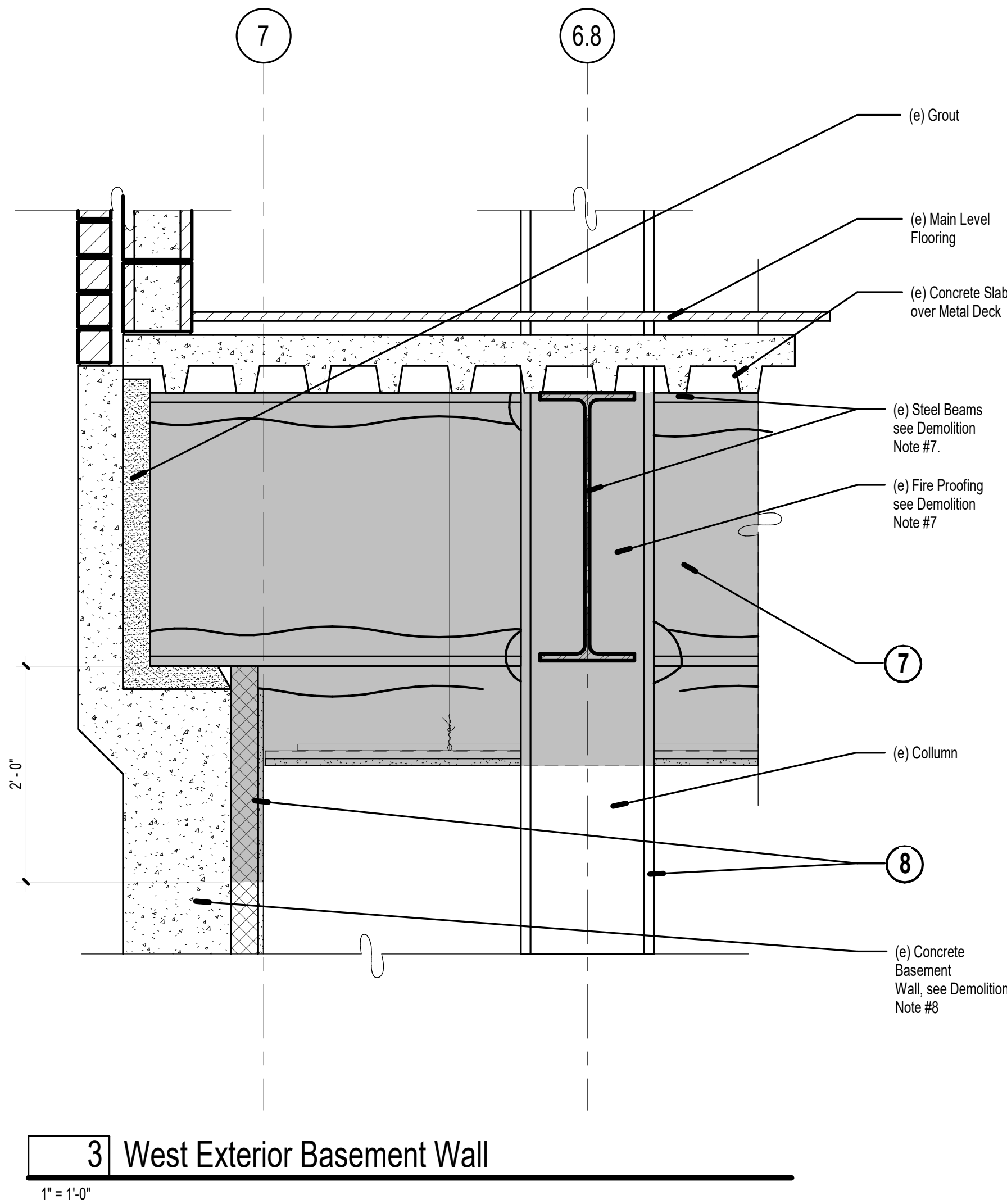
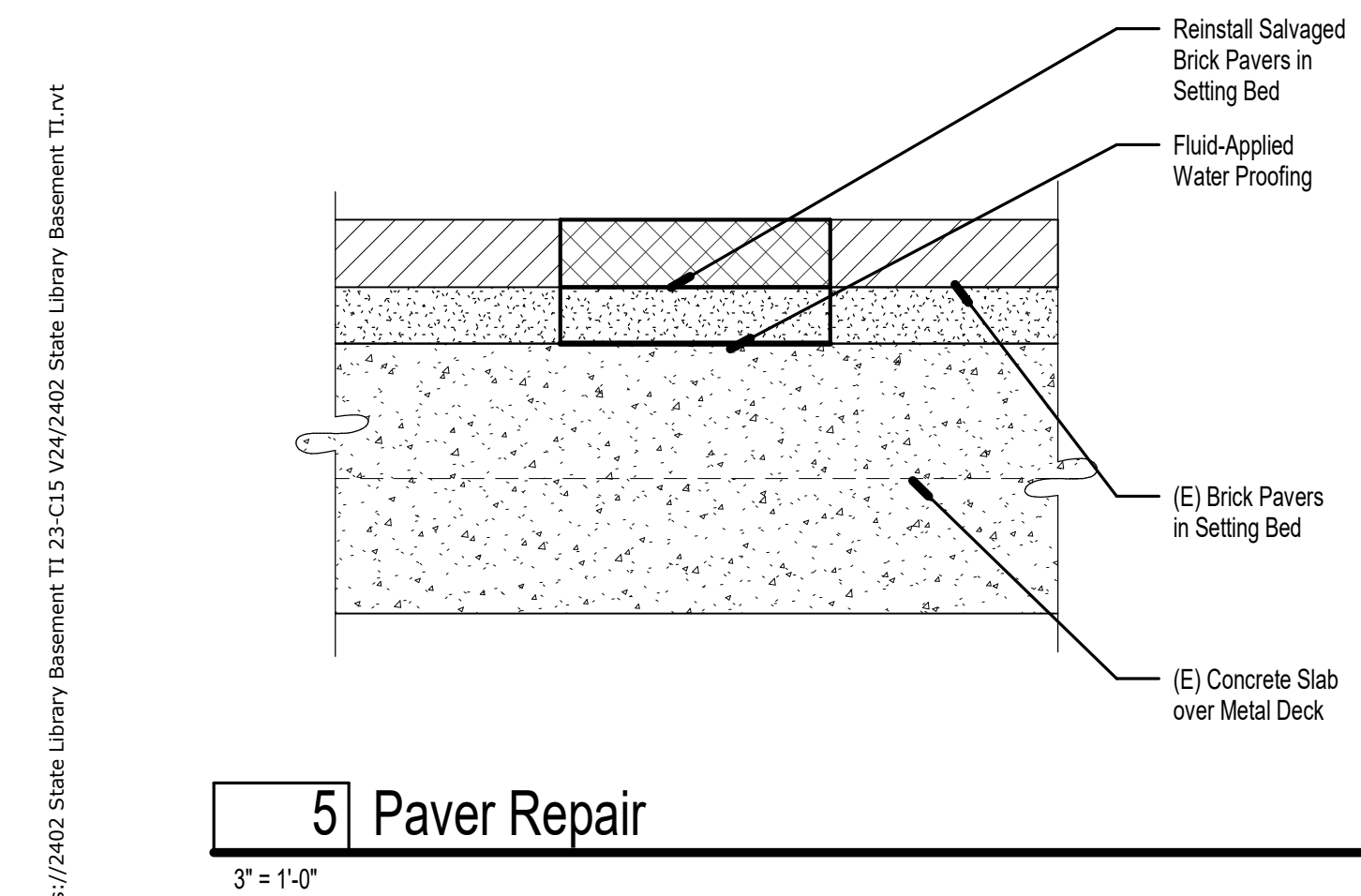
- 1 Remove (E) Suspended Stucco Ceiling Assembly in its entirety. Remove all main & cross runner channels and all suspension wires. Remove all spray-applied fireproofing material from steel beams and underside of metal deck above. See detail 2/A701 & 4/A701.
- 2 Remove (E) Brick Veneer at sides of bridge. See detail 2/A701. Salvage brick for reinstallation.
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$$1/8'' = 1'-0''$$

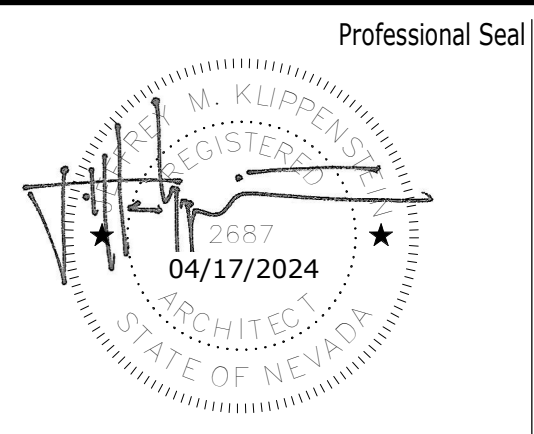

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- ### Demolition Notes
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- ### Demolition Keynotes
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 - Remove (E) compact shelving.



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Date
Revision
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Consultant

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NEVADA STATE LIBRARY & ARCHIVES
BASEMENT TENANT IMPROVEMENT
SPWD PROJECT #23-C15, SITE #9866, BLDG. #1675
DEMO AND STRUCTURAL ASSESSMENT
100 NORTH STEWART STREET, CARSON CITY, NV 89701

Details
April 17, 2024
H+K Project No: 2402
A701





Construction Document

Technical Specifications

Nevada State Library and Archives
Basement Tenant Improvement
Demolition and Structural Assessment
SPWD Project No. 23-C15

April 17, 2024

H+K ARCHITECTS

5485 Reno Corporate Drive, Suite 100
Reno, Nevada 89511-2262

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hkarchitects.com

SECTION 01 00 10 – TECHNICAL SPECIFICATIONS INDEX

VOLUME ONE

DIVISION 01 GENERAL REQUIREMENTS

010010	TECHNICAL SPECIFICATIONS INDEX
010120	PROJECT DIRECTORY
011000	SUMMARY
012500	SUBSTITUTION PROCEDURES
012500A	REQUEST FOR SUBSTITUTION FORM
012600	CONTRACT MODIFICATION PROCEDURES
012900	PAYMENT PROCEDURES
013100	PROJECT MANAGEMENT AND COORDINATION
013200	CONSTRUCTION PROGRESS DOCUMENTATION
013233	PHOTOGRAPHIC DOCUMENTATION
013300	SUBMITTAL PROCEDURES
013516	ALTERATION PROJECT PROCEDURES
014000	QUALITY REQUIREMENTS
014200	REFERENCES
015000	TEMPORARY FACILITIES AND CONTROLS
017300	EXECUTION
017419	CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL
017700	CLOSEOUT PROCEDURES

DIVISION 02 EXISTING CONDITIONS

024119	SELECTIVE DEMOLITION
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DIVISION 03 CONCRETE

NOT USED

DIVISION 04 MASONRY

NOT USED

DIVISION 05 METALS

NOT USED

DIVISION 06 WOOD, PLASTICS, AND COMPOSITES

NOT USED

DIVISION 07 THERMAL AND MOISTURE PROTECTION

NOT USED

DIVISION 08 OPENINGS

NOT USED

DIVISION 09 FINISHES

NOT USED

DIVISION 10 SPECIALTIES

NOT USED

SECTION 01 01 02 – PROJECT DIRECTORY

April 10, 2024

OWNER

Nevada State Public Works Division
515 E. Musser Street, Suite 102
Carson City, NV 89701
(775) 684-4141
Contact: Heather Holmstrom, RA

USING AGENCY

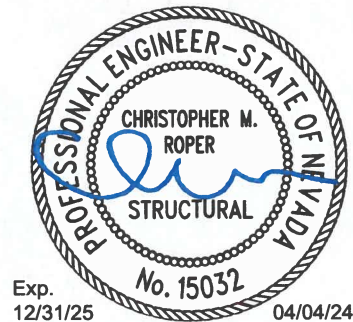
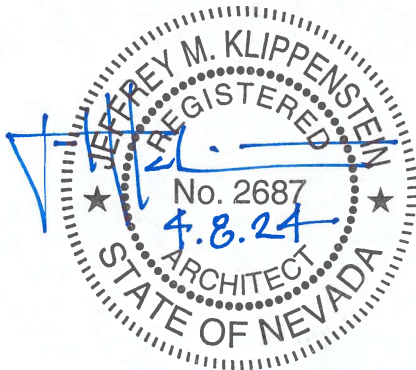
Nevada State Library and Archives
100 N. Stewart Street
Carson City, NV 89703
(775) 684-3360
Contact: Mike Strom

ARCHITECTURE

H+K Architects, Ltd.
5485 Reno Corporate Drive, Suite 100
Reno, NV 89511
(775) 332-6640
Contact: Jeff Klippenstein, AIA

STRUCTURAL ENGINEERING

CFBR Structural Group
5425 Louie Lane
Reno, NV 89511
(775) 470-1365
Contact: Chris Roper, PE/SE



END OF SECTION 01 01 02

SECTION 01 10 00 - SUMMARY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Project information.
 - 2. Work covered by Contract Documents.
 - 3. Work by Owner.
 - 4. Owner-furnished products.
 - 5. Access to site.
 - 6. Coordination with occupants.
 - 7. Work restrictions.
 - 8. Specification and drawing conventions.

1.3 PROJECT INFORMATION

- A. Project Identification: Nevada State Library and Archives Basement Tenant Improvement Demolition and Structural Assessment, SPWD Project No. 23-C15
- B. Project Location:
 - 100 N. Stewart Street
 - Carson City, NV 89703
- C. Owner: Nevada State Library, Archives and Public Records
 - 1. Owner's Representative: Michael Johnson, Building and Grounds Maintenance
- D. Project Manager: Nevada State Public Works Division
 - 1. Project Representative: Heather Holmstrom, RA
- E. Architect: H+K Architects, 5485 Reno Corporate Drive, Suite 100, Reno, NV 89511.
 - 1. Architect's Representative: Lee Murray, AIA

1.4 WORK COVERED BY CONTRACT DOCUMENTS

- A. The Work of Project is defined by the Contract Documents and consists of the following:
1. The Scope of the project is as shown on the Contract Documents prepared by H+K Architects dated April 10, 2024.
 2. Selective Demolition and Structural assessment of the plaza deck and bridge, located on the west side of the Nevada State Library and Archives building.
 - a. The Work shall be performed in three phases:
 - 1) Selective Demolition
 - 2) Structural review & assessment.
 - 3) Select repair of the Bridge surface and securing the exterior of the demolition area from weather and moisture intrusion.
 3. The Work consists of, but is not limited to, selective demolition of building components, including suspended ceiling systems, suspended stucco ceiling systems, masonry veneer, gypsum board and related framing, building insulation, and spray-applied fireproofing materials. And ultimate repair of the areas of the bridge surface disturbed by the Work.
 4. Affected areas are the Main Level Outdoor Plaza & Bridge, the underside of the Bridge, the west wall of the Lower Level at the light well, and interior demolition in the Lower level, as described in the Construction Drawings.
 5. Contractor shall be responsible for maintaining egress from the Archives building through the worksite, including the bridge over the lightwell.
 6. Upon completion of the demolition, certain areas will require a repair/build back as shown on the drawings. The exterior of the building shall be made weather tight. The entire project site shall be left clean and free of dust & debris.
 7. The project shall consist of furnishing all materials, labor, equipment, supervision, coordination and related items necessary to complete construction/demolition as shown on the Drawings, Specifications and Contract Documents.

1.5 ACCESS TO SITE

- A. General: Contractor shall have full use of Project site for construction operations during construction period. Contractor's use of Project site is limited only by Owner's right to perform work or to retain other contractors on portions of Project.
- B. The Contractor's work shall not interfere with the Owner's normal business operations. The building will remain occupied during the course of construction/demolition.

1.6 WORK RESTRICTIONS

- A. Work Restrictions, General: Comply with restrictions on construction operations.
1. Comply with limitations on use of public streets and with other requirements of authorities having jurisdiction.
- B. On-Site Work Hours: Limit work in the existing building to normal business working hours of 6:00 a.m. to 4:00 p.m., Monday through Friday, unless otherwise indicated.

1.7 SPECIFICATION AND DRAWING CONVENTIONS

- A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
 - 1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
 - 2. Specification requirements are to be performed by Contractor unless specifically stated otherwise.
- B. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.
- C. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail in the Specifications. One or more of the following are used on Drawings to identify materials and products:
 - 1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.
 - 2. Abbreviations: Materials and products are identified by abbreviations published as part of the U.S. National CAD Standard and scheduled on Drawings.
 - 3. Keynoting: Materials and products are identified by reference keynotes referencing Specification Section numbers found in this Project Manual.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01 10 00

SECTION 01 25 00 - SUBSTITUTION PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for substitutions.
- B. Related Requirements:
 - 1. Section 01 23 00 "Alternates" for products selected under an alternate.
 - 2. Section 01 60 00 "Product Requirements" for requirements for submitting comparable product submittals for products by listed manufacturers.

1.3 DEFINITIONS

- A. Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by Contractor.

1.4 ACTION SUBMITTALS

- A. Substitution Requests: Submit three copies of each request for consideration. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.
 - 1. Documentation: Show compliance with requirements for substitutions and the following, as applicable:
 - a. Statement indicating why specified product or fabrication or installation cannot be provided, if applicable.
 - b. Coordination information, including a list of changes or revisions needed to other parts of the Work and to construction performed by Owner and separate contractors, that will be necessary to accommodate proposed substitution.
 - c. Detailed comparison of significant qualities of proposed substitution with those of the Work specified. Include annotated copy of applicable Specification Section. Significant qualities may include attributes such as performance, weight, size, durability, visual effect, sustainable design characteristics, warranties, and specific features and requirements indicated. Indicate deviations, if any, from the Work specified.
 - d. Product Data, including drawings and descriptions of products and fabrication and installation procedures.

- e. Samples, where applicable or requested.
 - f. Certificates and qualification data, where applicable or requested.
 - g. Material test reports from a qualified testing agency indicating and interpreting test results for compliance with requirements indicated.
 - h. Detailed comparison of Contractor's construction schedule using proposed substitution with products specified for the Work, including effect on the overall Contract Time. If specified product or method of construction cannot be provided within the Contract Time, include letter from manufacturer, on manufacturer's letterhead, stating date of receipt of purchase order, lack of availability, or delays in delivery.
 - i. Cost information, including a proposal of change, if any, in the Contract Sum.
 - j. Contractor's certification that proposed substitution complies with requirements in the Contract Documents except as indicated in substitution request, is compatible with related materials, and is appropriate for applications indicated.
 - k. Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of failure of proposed substitution to produce indicated results.
2. Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within seven days of receipt of a request for substitution. Architect will notify Contractor of acceptance or rejection of proposed substitution within 15 days of receipt of request, or seven days of receipt of additional information or documentation, whichever is later.
- a. Forms of Acceptance: Change Order, Construction Change Directive, or Architect's Supplemental Instructions for minor changes in the Work.
 - b. Use product specified if Architect does not issue a decision on use of a proposed substitution within time allocated.

1.5 QUALITY ASSURANCE

- A. Compatibility of Substitutions: Investigate and document compatibility of proposed substitution with related products and materials. Engage a qualified testing agency to perform compatibility tests recommended by manufacturers.

1.6 PROCEDURES

- A. Coordination: Revise or adjust affected work as necessary to integrate work of the approved substitutions.

PART 2 - PRODUCTS

2.1 SUBSTITUTIONS

- A. Substitutions: Substitutions shall be incorporated into the Work in accordance with section 2.5 Substitutions of the General Conditions.
 - 1. Architect will consider requests for substitution if received within 30 days after the Notice to Proceed date. Thereafter substitutions will only be considered only in cases of

documented product unavailability or other conditions beyond the control and without fault of the Contractor, or in special circumstances when allowed by the Owner and the Architect.

2. Conditions: Architect will consider Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, Architect will return requests without action, except to record noncompliance with these requirements:
 - a. Requested substitution offers Owner a substantial advantage in cost, time, energy conservation, or other considerations, after deducting additional responsibilities Owner must assume. Owner's additional responsibilities may include compensation to Architect for redesign and evaluation services, increased cost of other construction by Owner, and similar considerations.
 - b. Requested substitution does not require extensive revisions to the Contract Documents.
 - c. Requested substitution is consistent with the Contract Documents and will produce indicated results.
 - d. Requested substitution provides sustainable design characteristics that specified product provided.
 - e. Substitution request is fully documented and properly submitted.
 - f. Requested substitution will not adversely affect Contractor's construction schedule.
 - g. Requested substitution has received necessary approvals of authorities having jurisdiction.
 - h. Requested substitution is compatible with other portions of the Work.
 - i. Requested substitution has been coordinated with other portions of the Work.
 - j. Requested substitution provides specified warranty.
 - k. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.

PART 3 - EXECUTION (Not Used)

END OF SECTION 01 25 00

SECTION 01 25 00A - REQUEST FOR SUBSTITUTION FORM

Submittal is to be filled out in its entirety. For items which do not apply, mark "N/A." Failure to complete the entire form may be cause for rejection.

Date of Request: _____

Project Name: _____

General Contractor: _____

Contractor Requesting Substitution: _____

1. Give complete name of item, manufacturer, model number, etc. to specifically identify the below listed items from similar items by either same or other manufacturers:

Specified Item: _____

Requested Substitution: _____

2. All applicable items in the following list of specification designations must be completely filled in as a basis to demonstrate equality (or non-equality) of the requested substitute vs. the specified item. (Add any information necessary to prove equality.)

Designation	Specified Item	Requested Substitution
Comply with (list numbers):		
ASTM Publication No.	_____	_____
Federal Specification No.	_____	_____
Military Specification No	_____	_____
ICBO Report No.	_____	_____
UL Assembly No.	_____	_____
NFPA Publication No.	_____	_____
ANSI Standard No.	_____	_____
Gypsum Association No.	_____	_____
	_____	_____

Size (state units of measure and identify as nominal, exact, etc. dimensions)

Length		
Height		
Depth		
Thickness		
Diameter		
Area		
Volume		

Construction and Material Used (If metal, indicate type. If wood, indicate species)

Metal		
Wood		
Plastic		
Gage, weight, thickness, etc.		
Method of Connection (welding, nails, screws, etc.)		
Method of Attachment to Structure (welding, nails, screws, etc.)		

Color and Finish

Special Features (list all special features for both specified and requested substitution)

Guarantee:	Yes:_____ No:_____	Yes:_____ No:_____
If yes, state length of guarantee	_____	_____
 If yes, list any other special conditions or other terms of guarantee	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____

For each item above in No. 2, which indicates that the requested substitution is not the same as the specified item, make a brief but concise statement in No. 5 below expressing why you believe the requested substitution is equal to or superior to the specified item. Clearly identify which line item in No. 2 is being discussed in each statement in No. 5.

3. Details of Construction and/or Installation

Does the requested substitute comply with method of construction and materials indicated on the Contract Documents	Yes:_____	No:_____
Does the requested substitute comply with method of attachment to and compatibility with adjacent materials indicated on the Contract Documents	Yes:_____	No:_____
If either of the above is answered NO, is there submitted herewith detailed drawings fully explaining the proposed method of construction and materials for the substitute item/ assembly and showing its method of attachment to and compatibility with adjacent materials?	Yes:_____	No:_____

Note: If this item is answered NO, this request will be rejected.

4. Affect on Contract Cost and/or Contract Time

If approved, will this Request for Substitution affect the Contract Cost?	Yes:_____	No:_____
If yes, state amount:	Add:_____	Deduct:_____
If approved, will this Request for Substitution affect the Contract Time?	Yes:_____	No:_____

If yes, state number of calendar days:

Add: _____ Deduct: _____

5. State below any other reasons for making this Request for Substitution, including any advantages for either the Owner, Contractor, Subcontractor, etc. (Attach additional sheets as necessary)

6. Certification:

In making this Request for Substitution, the undersigned hereby certifies that to the best of his knowledge and information all data listed hereinabove is correct and factual. The undersigned further certifies that he has read and understands all aspects of the Summary of Work, included in the Project Manual, and will fully comply with the contents of the Contract Documents regarding the substitution of materials.

Name of Firm making Request (Contractor, Subcontractor, Manufacturer, Supplier, etc.):

By:

Signature

Typed name and Title

7. Concurrence (To be completed by General Contractor, unless above certification is by General Contractor).

I/We, _____,
General Contractor for this project, have reviewed this Request for Substitution and concur with all the information contained herein and also make the same certifications as executed by the firm initiating this Request for Substitution.

By:

Signature

Typed name and Title

Date: _____

SECTION 01 26 00 - CONTRACT MODIFICATION PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for handling and processing Contract modifications.
- B. Related Requirements:
 - 1. Section 01 25 00 "Substitution Procedures" for administrative procedures for handling requests for substitutions made after the Contract award.

1.3 MINOR CHANGES IN THE WORK

- A. Architect will issue supplemental instructions authorizing minor changes in the Work, not involving adjustment to the Contract Sum or the Contract Time, on AIA Document G710, "Architect's Supplemental Instructions."

1.4 PROPOSAL REQUESTS

- A. Owner-Initiated Proposal Requests: Architect will issue a detailed description of proposed changes in the Work that may require adjustment to the Contract Sum or the Contract Time. If necessary, the description will include supplemental or revised Drawings and Specifications.
 - 1. Work Change Proposal Requests issued by Architect are not instructions either to stop work in progress or to execute the proposed change.
 - 2. Within time specified in Proposal Request after receipt of Proposal Request, submit a quotation estimating cost adjustments to the Contract Sum and the Contract Time necessary to execute the change.
 - a. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
 - b. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
 - c. Include costs of labor and supervision directly attributable to the change.
 - d. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and

finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.

- e. Quotation Form: Use forms acceptable to Architect.

- B. Contractor-Initiated Proposals: If latent or changed conditions require modifications to the Contract, Contractor may initiate a claim by submitting a request for a change to Architect.

1. Include a statement outlining reasons for the change and the effect of the change on the Work. Provide a complete description of the proposed change. Indicate the effect of the proposed change on the Contract Sum and the Contract Time.
2. Include a list of quantities of products required or eliminated and unit costs, with total amount of purchases and credits to be made. If requested, furnish survey data to substantiate quantities.
3. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
4. Include costs of labor and supervision directly attributable to the change.
5. Include an updated Contractor's construction schedule that indicates the effect of the change, including, but not limited to, changes in activity duration, start and finish times, and activity relationship. Use available total float before requesting an extension of the Contract Time.
6. Comply with requirements in Section 01 2 500 "Substitution Procedures" if the proposed change requires substitution of one product or system for product or system specified.
7. Proposal Request Form: Use form acceptable to Architect.

1.5 CHANGE ORDER PROCEDURES

- A. On Owner's approval of a Work Changes Proposal Request, Architect will issue a Change Order for signatures of Owner and Contractor on form included in Project Manual.

1.6 CONSTRUCTION CHANGE DIRECTIVE

- A. Construction Change Directive: Architect may issue a Construction Change Directive as described in Section 2.8 of the General Conditions.
- B. Documentation: Maintain detailed records on a time and material basis of work required by the Construction Change Directive.
 1. After completion of change, submit an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01 26 00

SECTION 01 29 00 - PAYMENT PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements necessary to prepare and process Applications for Payment.
- B. Related Requirements:
 - 1. Section 01 26 00 "Contract Modification Procedures" for administrative procedures for handling changes to the Contract.
 - 2. Section 01 32 00 "Construction Progress Documentation" for administrative requirements governing the preparation and submittal of the Contractor's construction schedule.

1.3 DEFINITIONS

- A. Schedule of Values: A statement furnished by Contractor allocating portions of the Contract Sum to various portions of the Work and used as the basis for reviewing Contractor's Applications for Payment.

1.4 SCHEDULE OF VALUES

- A. Coordination: Coordinate preparation of the schedule of values with preparation of Contractor's construction schedule. Cost-loaded Critical Path Method Schedule may serve to satisfy requirements for the schedule of values.
 - 1. Coordinate line items in the schedule of values with other required administrative forms and schedules, including the following:
 - a. Application for Payment forms with continuation sheets.
 - b. Submittal schedule.
 - c. Items required to be indicated as separate activities in Contractor's construction schedule.
 - 2. Submit the schedule of values to the Owner and the Architect within 14 calendar days after the issuance of the Notice to Proceed as required in Section 7.1 of the General Conditions.

- B. Format and Content: Use Project Manual table of contents as a guide to establish line items for the schedule of values. Provide at least one line item for each Specification Section.
1. Identification: Include the following Project identification on the schedule of values:
 - a. Project name and location.
 - b. Contractor's name and address.
 - c. Date of submittal.
 2. Arrange schedule of values consistent with format of AIA Document G703.
 3. Provide a breakdown of the Contract Sum in enough detail to facilitate continued evaluation of Applications for Payment and progress reports. Coordinate with Project Manual table of contents. Provide multiple line items for principal subcontract amounts in excess of five percent of the Contract Sum.
 4. Round amounts to nearest whole dollar; total shall equal the Contract Sum.
 5. Provide a separate line item in the schedule of values for each part of the Work where Applications for Payment may include materials or equipment purchased or fabricated and stored, but not yet installed.
 - a. Differentiate between items stored on-site and items stored off-site. If required, include evidence of insurance.
 6. Each item in the schedule of values and Applications for Payment shall be complete. Include total cost and proportionate share of general overhead and profit for each item.
 - a. Temporary facilities and other major cost items that are not direct cost of actual work-in-place may be shown either as separate line items in the schedule of values or distributed as general overhead expense, at Contractor's option.
 7. Schedule Updating: Update and resubmit the schedule of values before the next Applications for Payment when Change Orders or Construction Change Directives result in a change in the Contract Sum.

1.5 APPLICATIONS FOR PAYMENT

- A. Progress Payment Applications shall be formatted and submitted as required in Section 7.2 of the General Conditions.
- B. Each Application for Payment following the initial Application for Payment shall be consistent with previous applications and payments as certified by Architect and paid for by Owner.
 1. Initial Application for Payment, Application for Payment at time of Substantial Completion, and final Application for Payment involve additional requirements.
- C. Application for Payment Forms: Use forms provided by Owner for Applications for Payment. Sample copies are included in Project Manual.
- D. Application Preparation: Complete every entry on form. Notarize and execute by a person authorized to sign legal documents on behalf of Contractor. Architect will return incomplete applications without action.

1. Entries shall match data on the schedule of values and Contractor's construction schedule. Use updated schedules if revisions were made.
 2. Include amounts for work completed following previous Application for Payment, whether or not payment has been received. Include only amounts for work completed at time of Application for Payment.
 3. Include amounts of Change Orders and Construction Change Directives issued before last day of construction period covered by application.
 4. Indicate separate amounts for work being carried out under Owner-requested project acceleration.
- E. Stored Materials: Payment for materials or equipment not yet incorporated into the Work shall be requested as noted in Section 7.2 of the General Conditions.
- F. Transmittal: Submit the quantity agreed upon of signed copies of each Progress Payment Application to Owner by a method ensuring receipt.
- G. Initial Application for Payment: Administrative actions and submittals that must precede or coincide with submittal of first Application for Payment include the following:
1. List of subcontractors.
 2. Schedule of values.
 3. Contractor's construction schedule (preliminary if not final).
 4. List of Contractor's staff assignments.
 5. List of Contractor's principal consultants.
 6. Copies of authorizations and licenses from authorities having jurisdiction for performance of the Work.
 7. Report of preconstruction conference.
 8. Certificates of insurance and insurance policies.
 9. Performance and payment bonds.
 10. Data needed to acquire Owner's insurance.
- H. Application for Payment at Substantial Completion: After Architect issues the Certificate of Substantial Completion, submit an Application for Payment showing 100 percent completion for portion of the Work claimed as substantially complete.
1. Include documentation supporting claim that the Work is substantially complete and a statement showing an accounting of changes to the Contract Sum.
 2. This application shall reflect Certificate(s) of Substantial Completion issued previously for Owner occupancy of designated portions of the Work.
- I. Final Payment Application: After completing Project closeout requirements, submit final Application for Payment with releases and supporting documentation not previously submitted and accepted, including, but not limited, to the following:
1. Evidence of completion of Project closeout requirements.
 2. Insurance certificates for products and completed operations where required and proof that taxes, fees, and similar obligations were paid.
 3. Updated final statement, accounting for final changes to the Contract Sum.
 4. Evidence that claims have been settled.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01 29 00

SECTION 01 31 00 - PROJECT MANAGEMENT AND COORDINATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative provisions for coordinating construction operations on Project including, but not limited to, the following:
 - 1. General coordination procedures.
 - 2. Coordination drawings.
 - 3. Requests for Information (RFIs).
 - 4. Project meetings.
- B. Related Requirements:
 - 1. Section 01 32 00 "Construction Progress Documentation" for preparing and submitting Contractor's construction schedule.
 - 2. Section 01 73 00 "Execution" for procedures for coordinating general installation and field-engineering services, including establishment of benchmarks and control points.
 - 3. Section 01 77 00 "Closeout Procedures" for coordinating closeout of the Contract.
 - 4. Section 01 91 13 "General Commissioning Requirements" for coordinating the Work with Owner's Commissioning Authority.

1.3 DEFINITIONS

- A. RFI: Request from Owner, Architect, or Contractor seeking information required by or clarifications of the Contract Documents.

1.4 INFORMATIONAL SUBMITTALS

- A. Subcontract List: Prepare a written summary identifying individuals or firms proposed for each portion of the Work, including those who are to furnish products or equipment fabricated to a special design. Include the following information in tabular form:
 - 1. Name, address, and telephone number of entity performing subcontract or supplying products.
 - 2. Number and title of related Specification Section(s) covered by subcontract.
 - 3. Drawing number and detail references, as appropriate, covered by subcontract.

- B. Key Personnel Names: Within 15 days of starting construction operations, submit a list of key personnel assignments, including superintendent and other personnel in attendance at Project site. Identify individuals and their duties and responsibilities; list addresses and telephone numbers, including home, office, and cellular telephone numbers and e-mail addresses. Provide names, addresses, and telephone numbers of individuals assigned as alternates in the absence of individuals assigned to Project.
 - 1. Post copies of list in project meeting room, in temporary field office, and by each temporary telephone. Keep list current at all times.

1.5 GENERAL COORDINATION PROCEDURES

- A. Coordination: Coordinate construction operations included in different Sections of the Specifications to ensure efficient and orderly installation of each part of the Work. Coordinate construction operations, included in different Sections, that depend on each other for proper installation, connection, and operation.
 - 1. Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation.
 - 2. Coordinate installation of different components to ensure maximum performance and accessibility for required maintenance, service, and repair.
 - 3. Make adequate provisions to accommodate items scheduled for later installation.
- B. Prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports, and list of attendees at meetings.
 - 1. Prepare similar memoranda for Owner and separate contractors if coordination of their Work is required.

1.6 COORDINATION DRAWINGS

- A. Coordination Drawings, General: Prepare coordination drawings according to requirements in individual Sections, and additionally where installation is not completely shown on Shop Drawings, where limited space availability necessitates coordination, or if coordination is required to facilitate integration of products and materials fabricated or installed by more than one entity.
 - 1. Content: Project-specific information, drawn accurately to a scale large enough to indicate and resolve conflicts. Do not base coordination drawings on standard printed data. Include the following information, as applicable:
 - a. Use applicable Drawings as a basis for preparation of coordination drawings. Prepare sections, elevations, and details as needed to describe relationship of various systems and components.
 - b. Indicate functional and spatial relationships of components of architectural, structural, civil, mechanical, and electrical systems.
 - c. Indicate space requirements for routine maintenance and for anticipated replacement of components during the life of the installation.

- d. Show location and size of access doors required for access to concealed dampers, valves, and other controls.
 - e. Indicate required installation sequences.
 - f. Indicate dimensions shown on the Drawings. Specifically note dimensions that appear to be in conflict with submitted equipment and minimum clearance requirements. Provide alternate sketches to Architect indicating proposed resolution of such conflicts. Minor dimension changes and difficult installations will not be considered changes to the Contract.
- B. Coordination Digital Data Files: Prepare coordination digital data files according to the following requirements:
- 1. File Preparation Format: Same digital data software program, version, and operating system as original Drawings.
 - 2. File Submittal Format: Submit or post coordination drawing files using Portable Data File (PDF) format.
 - 3. BIM File Incorporation: Develop and incorporate coordination drawing files into Building Information Model established for Project.
 - a. Perform three-dimensional component conflict analysis as part of preparation of coordination drawings. Resolve component conflicts prior to submittal. Indicate where conflict resolution requires modification of design requirements by Architect.
 - 4. Architect will furnish Contractor one set of digital data files of Drawings for use in preparing coordination digital data files.
 - a. Architect makes no representations as to the accuracy or completeness of digital data files as they relate to Drawings.
 - b. Digital Data Software Program: Drawings are available in Autodesk Revit 2018.
 - c. Contractor shall execute a data licensing agreement in the form of Agreement included in this Project Manual.

1.7 REQUESTS FOR INFORMATION (RFIs)

- A. General: Request for Information shall be submitted as required in Section 2.3 of the General Conditions.
- 1. Architect will return RFIs submitted to Architect by other entities controlled by Contractor with no response.
 - 2. Coordinate and submit RFIs in a prompt manner so as to avoid delays in Contractor's work or work of subcontractors.
- B. Content of the RFI: Include a detailed, legible description of item needing information or interpretation and the following:
- 1. Project name.
 - 2. Project number.
 - 3. Date.
 - 4. Name of Contractor.
 - 5. Name of Architect.
 - 6. RFI number, numbered sequentially.
 - 7. RFI subject.

8. Specification Section number and title and related paragraphs, as appropriate.
 9. Drawing number and detail references, as appropriate.
 10. Field dimensions and conditions, as appropriate.
 11. Contractor's suggested resolution. If Contractor's suggested resolution impacts the Contract Time or the Contract Sum, Contractor shall state impact in the RFI.
 12. Contractor's signature.
 13. Attachments: Include sketches, descriptions, measurements, photos, Product Data, Shop Drawings, coordination drawings, and other information necessary to fully describe items needing interpretation.
 - a. Include dimensions, thicknesses, structural grid references, and details of affected materials, assemblies, and attachments on attached sketches.
- C. RFI Forms: Software-generated form with substantially the same content as indicated above, acceptable to Architect.
1. Attachments shall be electronic files in Adobe Acrobat PDF format.
- D. Architect's Action: Architect will review each RFI, determine action required, and respond. Allow ten calendar days for Architect's response for each RFI.
1. The following Contractor-generated RFIs will be returned without action:
 - a. Requests for approval of submittals.
 - b. Requests for approval of substitutions.
 - c. Requests for approval of Contractor's means and methods.
 - d. Requests for coordination information already indicated in the Contract Documents.
 - e. Requests for adjustments in the Contract Time or the Contract Sum.
 - f. Requests for interpretation of Architect's actions on submittals.
 - g. Incomplete RFIs or inaccurately prepared RFIs.
 2. Architect's action may include a request for additional information, in which case Architect's time for response will date from time of receipt of additional information.
 3. Architect's action on RFIs that may result in a change to the Contract Time or the Contract Sum may be eligible for Contractor to submit Change Proposal according to Section 012600 "Contract Modification Procedures."
 - a. If Contractor believes the RFI response warrants change in the Contract Time or the Contract Sum, notify Architect in writing within 10 days of receipt of the RFI response.
- E. RFI Log: Prepare, maintain, and submit a tabular log of RFIs organized by the RFI number. Submit log weekly. Include the following:
1. Project name.
 2. RFI number including RFIs that were returned without action or withdrawn.
 3. RFI description.
 4. Date the RFI was submitted.
 5. Date Architect's response was received.

- F. On receipt of Architect's action, update the RFI log and immediately distribute the RFI response to affected parties. Review response and notify Architect within seven days if Contractor disagrees with response.
 - 1. Identification of related Minor Change in the Work, Construction Change Directive, and Proposal Request, as appropriate.

1.8 PROJECT MEETINGS

- A. General: Schedule and conduct meetings and conferences at Project site unless otherwise indicated.
 - 1. Attendees: Inform participants and others involved, and individuals whose presence is required, of date and time of each meeting. Notify Owner and Architect of scheduled meeting dates and times.
 - 2. Agenda: Prepare the meeting agenda. Distribute the agenda to all invited attendees.
 - 3. Minutes: Entity responsible for conducting meeting will record significant discussions and agreements achieved. Distribute the meeting minutes to everyone concerned, including Owner and Architect, within five days of the meeting.
- B. Preconstruction Conference: Owner will Schedule and conduct a preconstruction conference before starting construction, at a time convenient to Owner and Architect.
 - 1. Conduct the conference to review responsibilities and personnel assignments.
 - 2. Attendees: Authorized representatives of Owner, Owner's Commissioning Authority, Architect, and their consultants; Contractor and its superintendent; major subcontractors; suppliers; and other concerned parties shall attend the conference. Participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.
 - 3. Agenda: Discuss items of significance that could affect progress, including the following:
 - a. Tentative construction schedule.
 - b. Critical work sequencing and long-lead items.
 - c. Designation of key personnel and their duties.
 - d. Lines of communications.
 - e. Procedures for processing field decisions and Change Orders.
 - f. Procedures for RFIs.
 - g. Procedures for testing and inspecting.
 - h. Procedures for processing Applications for Payment.
 - i. Distribution of the Contract Documents.
 - j. Submittal procedures.
 - k. Preparation of record documents.
 - l. Use of the premises.
 - m. Work restrictions.
 - n. Working hours.
 - o. Responsibility for temporary facilities and controls.
 - p. Procedures for disruptions and shutdowns.
 - q. Construction waste management and recycling.
 - r. Parking availability.
 - s. Office, work, and storage areas.
 - t. Equipment deliveries and priorities.
 - u. Security.

4. Minutes: Contractor will record and distribute meeting minutes.
- C. Preinstallation Conferences: Conduct a preinstallation conference at Project site before each construction activity that requires coordination with other construction.
1. Attendees: Installer and representatives of manufacturers and fabricators involved in or affected by the installation and its coordination or integration with other materials and installations that have preceded or will follow, shall attend the meeting. Advise Architect and Owner's Commissioning Authority of scheduled meeting dates.
 2. Agenda: Review progress of other construction activities and preparations for the particular activity under consideration, including requirements for the following:
 - a. Contract Documents.
 - b. Options.
 - c. Related RFIs.
 - d. Related Change Orders.
 - e. Purchases.
 - f. Deliveries.
 - g. Submittals.
 - h. Review of mockups.
 - i. Possible conflicts.
 - j. Compatibility requirements.
 - k. Time schedules.
 - l. Weather limitations.
 - m. Compatibility of materials.
 - n. Acceptability of substrates.
 - o. Temporary facilities and controls.
 - p. Space and access limitations.
 - q. Testing and inspecting requirements.
 - r. Installation procedures.
 - s. Coordination with other work.
 - t. Protection of adjacent work.
 3. Record significant conference discussions, agreements, and disagreements, including required corrective measures and actions.
 4. Reporting: Distribute minutes of the meeting to each party present and to other parties requiring information.
 5. Do not proceed with installation if the conference cannot be successfully concluded. Initiate whatever actions are necessary to resolve impediments to performance of the Work and reconvene the conference at earliest feasible date.
- D. Progress Meetings: Conduct progress meetings at regular intervals.
1. Construction progress meetings shall be held as noted in Section 5.8 of the General Conditions.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01 31 00

SECTION 01 32 00 - CONSTRUCTION PROGRESS DOCUMENTATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for documenting the progress of construction during performance of the Work, including the following:
 - 1. Contractor's construction schedule.
 - 2. Daily construction reports.
 - 3. Site condition reports.
- B. Related Requirements:
 - 1. Section 01 33 00 "Submittal Procedures" for submitting schedules and reports.
 - 2. Section 01 40 00 "Quality Requirements" for submitting a schedule of tests and inspections.

1.3 INFORMATIONAL SUBMITTALS

- A. Format for Submittals: Submit required submittals in the following format:
 - 1. Working electronic copy of schedule file, where indicated.
 - 2. PDF electronic file.
- B. Contractor's Construction Schedule: Initial schedule, of size required to display entire schedule for entire construction period.
- C. Daily Construction Reports: Submit as required by section 5.2.2. of the General Conditions.
- D. Site Condition Reports: Submit at time of discovery of differing conditions.

1.4 COORDINATION

- A. Coordinate preparation and processing of schedules and reports with performance of construction activities and with scheduling and reporting of separate contractors.
- B. Coordinate Contractor's construction schedule with the schedule of values, submittal schedule, progress reports, payment requests, and other required schedules and reports.

1. Secure time commitments for performing critical elements of the Work from entities involved.
2. Coordinate each construction activity in the network with other activities and schedule them in proper sequence.

PART 2 - PRODUCTS

2.1 CONTRACTOR'S CONSTRUCTION SCHEDULE, GENERAL

- A. Refer to Section 5.7 of the General Conditions for Construction Schedule requirements.
- B. Time Frame: Extend schedule from date established for the Notice to Proceed to date of Substantial Completion.
 1. Contract completion date shall not be changed by submission of a schedule that shows an early completion date, unless specifically authorized by Change Order.
- C. Recovery Schedule: In the event of any failure to adhere to the construction schedule the Contractor shall, within 7 days of written notice from the Owner, provide a recovery schedule for review by the Owner and the Architect. The recovery schedule shall identify how the Contractor proposes, at his sole expense, to overcome the associated delays and complete the Work within the Contract Time. Such notice from the Owner shall not constitute either actual or implied direction for the Contractor to accelerate the Work.

2.2 REPORTS

- A. Daily Construction Reports: Prepare a daily construction report for distribution to the Owner. Report shall include information as required by section 5.2.2 of the General Conditions of the Contract.
- B. Site Condition Reports: Immediately on discovery of a difference between site conditions and the Contract Documents, prepare and submit a detailed report. Submit with a Request for Information. Include a detailed description of the differing conditions, together with recommendations for changing the Contract Documents.

PART 3 - EXECUTION

3.1 CONTRACTOR'S CONSTRUCTION SCHEDULE

- A. Contractor's Construction Schedule Updating: The Contractor shall submit a current/updated construction schedule with each Progress Payment Application. Failure by the Contractor to provide a current construction schedule shall be justification for the Owner to withhold approval or reduce the amount of the payment due the Contractor.
- B. Distribution: Distribute copies of approved schedule to Architect, Owner, separate contractors, testing and inspecting agencies, and other parties identified by Contractor with a need-to-know schedule responsibility.

1. Post copies in Project meeting rooms and temporary field offices.
2. When revisions are made, distribute updated schedules to the same parties and post in the same locations. Delete parties from distribution when they have completed their assigned portion of the Work and are no longer involved in performance of construction activities.

END OF SECTION 01 32 00

SECTION 01 32 33 - PHOTOGRAPHIC DOCUMENTATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for the following:
 - 1. Preconstruction photographs.
 - 2. Periodic construction photographs.
 - 3. Final completion construction photographs.
- B. Related Requirements:
 - 1. Section 01 33 00 "Submittal Procedures" for submitting photographic documentation.
 - 2. Section 01 77 00 "Closeout Procedures" for submitting photographic documentation as project record documents at Project closeout.
 - 3. Section 02 41 16 "Structure Demolition" for photographic documentation before building demolition operations commence.
 - 4. Section 31 10 00 "Site Clearing" for photographic documentation before site clearing operations commence.

1.3 INFORMATIONAL SUBMITTALS

- A. Digital Photographs: Submit image files within three days of taking photographs.
 - 1. Digital Camera: Minimum sensor resolution of 8 megapixels.
 - 2. Format: Minimum 3200 by 2400 pixels, in unaltered original files, with same aspect ratio as the sensor, uncropped, date and time stamped, in folder named by date of photograph, accompanied by key plan file.
 - 3. Identification: Provide the following information with each image description in file metadata tag:
 - a. Date photograph was taken.
 - b. Description of vantage point, indicating location, direction (by compass point), and elevation or story of construction.
 - c. Unique sequential identifier keyed to accompanying key plan.

1.4 USAGE RIGHTS

- A. Obtain and transfer copyright usage rights from photographer to Owner for unlimited reproduction of photographic documentation.

PART 2 - PRODUCTS

2.1 PHOTOGRAPHIC MEDIA

- A. Digital Images: Provide images in JPG format, produced by a digital camera with minimum sensor size of 8 megapixels, and at an image resolution of not less than 3200 by 2400 pixels.

PART 3 - EXECUTION

3.1 CONSTRUCTION PHOTOGRAPHS

- A. General: Take photographs using the maximum range of depth of field, and that are in focus, to clearly show the Work. Photographs with blurry or out-of-focus areas will not be accepted.
 - 1. Maintain key plan with each set of construction photographs that identifies each photographic location.
- B. Digital Images: Submit digital images exactly as originally recorded in the digital camera, without alteration, manipulation, editing, or modifications using image-editing software.
 - 1. Date and Time: Include date and time in file name for each image.
 - 2. Field Office Images: Maintain one set of images accessible in the field office at Project site, available at all times for reference. Identify images in the same manner as those submitted to Architect.
- C. Preconstruction Photographs: Before starting construction, take photographs of Project site and surrounding properties, including existing items to remain during construction, from different vantage points, as directed by Architect.
 - 1. Flag construction limits before taking construction photographs.
 - 2. Take additional photographs to show existing conditions adjacent to property before starting the Work, number as required to fully document conditions, but not less than 20.
- D. Periodic Construction Photographs: Take not less than 40 photographs weekly, with timing each month adjusted to coincide with the cutoff date associated with each Application for Payment. Select vantage points to show status of construction and progress since last photographs were taken.
- E. Final Completion Construction Photographs: Take 50 color photographs after date of Substantial Completion for submission as project record documents. Architect will inform photographer of desired vantage points.
 - 1. Do not include date stamp.

END OF SECTION 01 32 33

SECTION 01 33 00 - SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes requirements for the submittal schedule and administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other submittals.
- B. Related Requirements:
 - 1. Section 01 29 00 "Payment Procedures" for submitting Applications for Payment and the schedule of values.
 - 2. Section 01 32 00 "Construction Progress Documentation" for submitting schedules and reports, including Contractor's construction schedule.
 - 3. Section 01 78 39 "Project Record Documents" for submitting record Drawings, record Specifications, and record Product Data.

1.3 DEFINITIONS

- A. Action Submittals: Written and graphic information and physical samples that require Architect's responsive action. Action submittals are those submittals indicated in individual Specification Sections as "action submittals."
- B. File Transfer Protocol (FTP): Communications protocol that enables transfer of files to and from another computer over a network and that serves as the basis for standard Internet protocols. An FTP site is a portion of a network located outside of network firewalls within which internal and external users are able to access files.
- C. Portable Document Format (PDF): An open standard file format licensed by Adobe Systems used for representing documents in a device-independent and display resolution-independent fixed-layout document format.

1.4 ACTION SUBMITTALS

- A. Submittal Schedule: Submit a schedule of submittals, arranged in chronological order by dates required by construction schedule. Include time required for review, ordering, manufacturing, fabrication, and delivery when establishing dates. Include additional time required for making corrections or revisions to submittals noted by Architect and additional time for handling and reviewing submittals required by those corrections.

1. Coordinate submittal schedule with list of subcontracts, the schedule of values, and Contractor's construction schedule.
2. Final Submittal: Submit concurrently with the first complete submittal of Contractor's construction schedule.
 - a. Submit revised submittal schedule to reflect changes in current status and timing for submittals.
3. Format: Arrange the following information in a tabular format:
 - a. Scheduled date for first submittal.
 - b. Specification Section number and title.
 - c. Submittal category: Action; informational.
 - d. Name of subcontractor.
 - e. Description of the Work covered.
 - f. Scheduled date for Architect's final release or approval.
 - g. Scheduled date of fabrication.
 - h. Scheduled dates for purchasing.
 - i. Scheduled dates for installation.
 - j. Activity or event number.

- B. Certification of Non-Asbestos Materials: As a part of the submittal process, each contractor supplying materials for use on the project shall certify that all materials supplied by his or her company are asbestos free. A form following this specification section shall be incorporated into the submittal process and shall accompany each submittal. The form must be signed by the supplying contractor, the general Contractor, and the Architect to ensure that the review process has been accomplished. Any materials brought to the job that have not been certified must be removed until certified. This certification is not required for steel, aluminum, brass, masonry, concrete, and glass unless they have been treated with any coatings or finishes.

1.5 CONTRACTOR'S USE OF ARCHITECT'S DIGITAL FILES

- A. General: At Contractor's written request and Architect's discretion, copies of Architect's digital files may be provided to Contractor for Contractor's use in connection with the project. This use is subject to Contractor signing a release form as provided by Architect.
- B. Digital files may be provided if requested for the following uses:
1. Preparation of shop drawings that require Contractor to design and demonstrate the coordinated installation of multiple trades.
 2. Preparation of shop drawings and calculations for Contractor provided design-build installation.
 3. Preparation of shop drawings for Contractor obtained permits from Authorities Having Jurisdiction (AHJ).
- C. Digital Files will not be provided prior to the Notice to Proceed.
- D. Contractor use of Digital Files that are prepared by Design Team members other than the Architect are subject to additional requirements beyond those indicated in this section.
- E. The following Digital Files are NOT available for Contractor's use:

1. Door Schedules or Finish Schedules.
2. Individual details or detail sheets – including but not limited to Accessibility Details, Plan Details, Roof Details, Door and Frame Details, Window Details, and Ceiling Details.

1.6 SUBMITTAL ADMINISTRATIVE REQUIREMENTS

- A. Submittals shall be provided in accordance with Section 2.4 of the General Conditions.
- B. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
 1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
 2. Submit all submittal items required for each Specification Section concurrently unless partial submittals for portions of the Work are indicated on approved submittal schedule.
 3. Submit action submittals and informational submittals required by the same Specification Section as separate packages under separate transmittals.
 4. Coordinate transmittal of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.
 - a. Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- C. Processing Time: Allow time for submittal review, including time for resubmittals, as follows. Time for review shall commence on Architect's receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.
 1. Initial Review: Allow 14 days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. Architect will advise Contractor when a submittal being processed must be delayed for coordination.
 2. Intermediate Review: If intermediate submittal is necessary, process it in same manner as initial submittal.
 3. Resubmittal Review: Allow 14 days for review of each resubmittal.
- D. Electronic Submittals: Identify and incorporate information in each electronic submittal file as follows:
 1. Assemble complete submittal package into a single indexed file incorporating submittal requirements of a single Specification Section and transmittal form with links enabling navigation to each item.
 2. Name file with submittal number or other unique identifier, including revision identifier.
 - a. File name shall use project identifier and Specification Section number followed by a decimal point and then a sequential number (e.g., LNHS-061000.01). Resubmittals shall include an alphabetic suffix after another decimal point (e.g., LNHS-061000.01.A).
 3. Provide means for insertion to permanently record Contractor's review and approval markings and action taken by Architect.

4. Transmittal Form for Electronic Submittals: Use electronic form acceptable to Owner, containing the following information:
 - a. Project name.
 - b. Date.
 - c. Name and address of Architect.
 - d. Name of Contractor.
 - e. Name of firm or entity that prepared submittal.
 - f. Names of subcontractor, manufacturer, and supplier.
 - g. Category and type of submittal.
 - h. Submittal purpose and description.
 - i. Specification Section number and title.
 - j. Specification paragraph number or drawing designation and generic name for each of multiple items.
 - k. Drawing number and detail references, as appropriate.
 - l. Location(s) where product is to be installed, as appropriate.
 - m. Related physical samples submitted directly.
 - n. Indication of full or partial submittal.
 - o. Transmittal number.
 - p. Submittal and transmittal distribution record.
 - q. Other necessary identification.
 - r. Remarks.
- E. Options: Identify options requiring selection by Architect.
- F. Deviations and Additional Information: On an attached separate sheet, prepared on Contractor's letterhead, record relevant information, requests for data, revisions other than those requested by Architect on previous submittals, and deviations from requirements in the Contract Documents, including minor variations and limitations. Include same identification information as related submittal.
- G. Resubmittals: Make resubmittals in same form and number of copies as initial submittal.
 1. Note date and content of previous submittal.
 2. Note date and content of revision in label or title block and clearly indicate extent of revision.
 3. Resubmit submittals until they are marked with approval notation from Architect's action stamp.
- H. Distribution: Furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Show distribution on transmittal forms.
- I. Use for Construction: Retain complete copies of submittals on Project site. Use only final action submittals that are marked with approval notation from Architect's action stamp.

PART 2 - PRODUCTS

2.1 SUBMITTAL PROCEDURES

- A. General Submittal Procedure Requirements: Prepare and submit submittals required by individual Specification Sections. Types of submittals are indicated in individual Specification Sections.
 - 1. Submit electronic submittals as PDF electronic files.
 - a. Architect will return annotated file. Annotate and retain one copy of file as an electronic Project record document file.
- B. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.
 - 1. If information must be specially prepared for submittal because standard published data are not suitable for use, submit as Shop Drawings, not as Product Data.
 - 2. Mark each copy of each submittal to show which products and options are applicable.
 - 3. Include the following information, as applicable:
 - a. Manufacturer's catalog cuts.
 - b. Manufacturer's product specifications.
 - c. Standard color charts.
 - d. Statement of compliance with specified referenced standards.
 - 4. For equipment, include the following in addition to the above, as applicable:
 - a. Wiring diagrams showing factory-installed wiring.
 - b. Clearances required to other construction, if not indicated on accompanying Shop Drawings.
 - 5. Submit Product Data before or concurrent with Samples.
- C. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data.
 - 1. Preparation: Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:
 - a. Identification of products.
 - b. Schedules.
 - c. Compliance with specified standards.
 - d. Notation of coordination requirements.
 - e. Notation of dimensions established by field measurement.
 - f. Relationship and attachment to adjoining construction clearly indicated.
 - g. Seal and signature of professional engineer if specified.
 - 2. Sheet Size: Except for templates, patterns, and similar full-size drawings, submit Shop Drawings on sheets at least 8-1/2 by 11 inches, but no larger than 30 by 42 inches .

- D. Samples: Submit Samples for review of kind, color, pattern, and texture for a check of these characteristics with other elements and for a comparison of these characteristics between submittal and actual component as delivered and installed.
1. Transmit Samples that contain multiple, related components such as accessories together in one submittal package.
 2. Identification: Attach label on unexposed side of Samples that includes the following:
 - a. Generic description of Sample.
 - b. Product name and name of manufacturer.
 - c. Sample source.
 - d. Number and title of applicable Specification Section.
 - e. Specification paragraph number and generic name of each item.
 3. For projects where electronic submittals are required, provide corresponding electronic submittal of Sample transmittal, digital image file illustrating Sample characteristics, and identification information for record.
 4. Disposition: Maintain sets of approved Samples at Project site, available for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with each set.
 - a. Samples not incorporated into the Work, or otherwise designated as Owner's property, are the property of Contractor.
 5. Samples for Initial Selection: Submit manufacturer's color charts consisting of units or sections of units showing the full range of colors, textures, and patterns available.
 - a. Number of Samples: Submit two full set(s) of available choices where color, pattern, texture, or similar characteristics are required to be selected from manufacturer's product line. Architect will return submittal with options selected.
 6. Samples for Verification: Submit full-size units or Samples of size indicated, prepared from same material to be used for the Work, cured and finished in manner specified, and physically identical with material or product proposed for use, and that show full range of color and texture variations expected. Samples include, but are not limited to, the following: partial sections of manufactured or fabricated components; small cuts or containers of materials; complete units of repetitively used materials; swatches showing color, texture, and pattern; color range sets; and components used for independent testing and inspection.
 - a. Number of Samples: Submit three sets of Samples. Architect will retain two Sample sets; remainder will be returned.
 - 1) Submit a single Sample where assembly details, workmanship, fabrication techniques, connections, operation, and other similar characteristics are to be demonstrated.
 - 2) If variation in color, pattern, texture, or other characteristic is inherent in material or product represented by a Sample, submit at least three sets of paired units that show approximate limits of variations.
- E. Product Schedule: As required in individual Specification Sections, prepare a written summary indicating types of products required for the Work and their intended location. Include the following information in tabular form:

1. Type of product. Include unique identifier for each product indicated in the Contract Documents or assigned by Contractor if none is indicated.
 2. Manufacturer and product name, and model number if applicable.
 3. Number and name of room or space.
 4. Location within room or space.
- F. Coordination Drawing Submittals: Comply with requirements specified in Section 013100 "Project Management and Coordination."
- G. Contractor's Construction Schedule: Comply with requirements specified in Section 013200 "Construction Progress Documentation."
- H. Application for Payment and Schedule of Values: Comply with requirements specified in Section 012900 "Payment Procedures."
- I. Test and Inspection Reports and Schedule of Tests and Inspections Submittals: Comply with requirements specified in Section 014000 "Quality Requirements."
- J. Closeout Submittals and Maintenance Material Submittals: Comply with requirements specified in Section 017700 "Closeout Procedures."
- K. Maintenance Data: Comply with requirements specified in Section 017823 "Operation and Maintenance Data."
- L. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, contact information of architects and owners, and other information specified.
- M. Welding Certificates: Prepare written certification that welding procedures and personnel comply with requirements in the Contract Documents. Submit record of Welding Procedure Specification and Procedure Qualification Record on AWS forms. Include names of firms and personnel certified.
- N. Installer Certificates: Submit written statements on manufacturer's letterhead certifying that Installer complies with requirements in the Contract Documents and, where required, is authorized by manufacturer for this specific Project.
- O. Manufacturer Certificates: Submit written statements on manufacturer's letterhead certifying that manufacturer complies with requirements in the Contract Documents. Include evidence of manufacturing experience where required.
- P. Product Certificates: Submit written statements on manufacturer's letterhead certifying that product complies with requirements in the Contract Documents.
- Q. Material Certificates: Submit written statements on manufacturer's letterhead certifying that material complies with requirements in the Contract Documents.
- R. Material Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting test results of material for compliance with requirements in the Contract Documents.

- S. Product Test Reports: Submit written reports indicating that current product produced by manufacturer complies with requirements in the Contract Documents. Base reports on evaluation of tests performed by manufacturer and witnessed by a qualified testing agency, or on comprehensive tests performed by a qualified testing agency.
- T. Research Reports: Submit written evidence, from a model code organization acceptable to authorities having jurisdiction, that product complies with building code in effect for Project. Include the following information:
 - 1. Name of evaluation organization.
 - 2. Date of evaluation.
 - 3. Time period when report is in effect.
 - 4. Product and manufacturers' names.
 - 5. Description of product.
 - 6. Test procedures and results.
 - 7. Limitations of use.
- U. Preconstruction Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of tests performed before installation of product, for compliance with performance requirements in the Contract Documents.
- V. Compatibility Test Reports: Submit reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of compatibility tests performed before installation of product. Include written recommendations for primers and substrate preparation needed for adhesion.
- W. Field Test Reports: Submit written reports indicating and interpreting results of field tests performed either during installation of product or after product is installed in its final location, for compliance with requirements in the Contract Documents.
- X. Design Data: Prepare and submit written and graphic information, including, but not limited to, performance and design criteria, list of applicable codes and regulations, and calculations. Include list of assumptions and other performance and design criteria and a summary of loads. Include load diagrams if applicable. Provide name and version of software, if any, used for calculations. Include page numbers.

2.2 DELEGATED-DESIGN SERVICES

- A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.
 - 1. If criteria indicated are not sufficient to perform services or certification required, submit a written request for additional information to Architect.
- B. Delegated-Design Services Certification: In addition to Shop Drawings, Product Data, and other required submittals, submit digitally signed PDF electronic file and three paper copies of certificate, signed and sealed by the responsible design professional, for each product and system specifically assigned to Contractor to be designed or certified by a design professional.

1. Indicate that products and systems comply with performance and design criteria in the Contract Documents. Include list of codes, loads, and other factors used in performing these services.

PART 3 - EXECUTION

3.1 CONTRACTOR'S REVIEW

- A. Action and Informational Submittals: Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Architect.
- B. Project Closeout and Maintenance Material Submittals: See requirements in Section 017700 "Closeout Procedures."
- C. Approval Stamp: Stamp each submittal with a uniform, approval stamp. Include Project name and location, submittal number, Specification Section title and number, name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.

3.2 ARCHITECT'S ACTION

- A. Action Submittals: Architect will review each submittal, make marks to indicate corrections or revisions required, and return it. Architect will stamp each submittal with an action stamp and will mark stamp appropriately to indicate action, as follows:
 1. Reviewed, No Exceptions Noted.
 2. Reviewed, Exceptions Noted - No Resubmittal Required.
 3. Reviewed, Exceptions Noted - Resubmittal Required.
 4. Rejected - Resubmittal Required.
- B. Informational Submittals: Architect will review each submittal and will not return it, or will return it if it does not comply with requirements. Architect will forward each submittal to appropriate party.
- C. Partial submittals prepared for a portion of the Work will be reviewed when use of partial submittals has received prior approval from Architect.
- D. Incomplete submittals are unacceptable, will be considered nonresponsive, and will be returned for resubmittal without review.
- E. Submittals not required by the Contract Documents may be returned by the Architect without action.

END OF SECTION 01 33 00

SECTION 01 35 16 – ALTERATION/DEMOLITION PROJECT PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes:

1. Special procedures for alteration and/or demolition work.
2. Special procedures for temporary building weather protection.

B. Related Requirements

1. Section 01 10 00 - "Summary" for restrictions on use of the premises, Owner-occupancy requirements, and phasing requirements.
2. Section 01 32 33 - "Photographic Documentation" for documentation of existing conditions.
3. Section 01 73 00 - "Execution" for cutting and patching procedures.
4. Section 02 41 19 – "Selective Demolition" for demolition procedures.

1.2 DEFINITIONS

- A. Alteration Work: This term includes remodeling, renovation, repair, and maintenance work performed within existing spaces or on existing surfaces as part of the Project.
- B. Consolidate: To strengthen loose or deteriorated materials in place.
- C. Design Reference Sample: A sample that represents the Architect's prebid selection of work to be matched; it may be existing work or work specially produced for the Project.
- D. Dismantle: To remove by disassembling or detaching an item from a surface, using gentle methods and equipment to prevent damage to the item and surfaces; disposing of items unless indicated to be salvaged or reinstalled.
- E. Match: To blend with adjacent construction and manifest no apparent difference in material type, species, cut, form, detail, color, grain, texture, or finish; as approved by Architect.
- F. Refinish: To remove existing finishes to base material and apply new finish to match original, or as otherwise indicated.
- G. Repair: To correct damage and defects, retaining existing materials, features, and finishes. This includes patching, piecing-in, splicing, consolidating, or otherwise reinforcing or upgrading materials.
- H. Replace: To remove, duplicate, and reinstall entire item with new material. The original item is the pattern for creating duplicates unless otherwise indicated.
- I. Replicate: To reproduce in exact detail, materials, and finish unless otherwise indicated.

- J. Reproduce: To fabricate a new item, accurate in detail to the original, and from either the same or a similar material as the original, unless otherwise indicated.
- K. Retain: To keep an element or detail secure and intact.
- L. Strip: To remove existing finish down to base material unless otherwise indicated.
- M. Weather Protection: The temporary protection of that Work adversely affected by moisture, wind and cold, by covering, enclosing and/or heating.

1.3 WORK INCLUDED

- A. Furnish all labor, materials, tools, and equipment necessary to complete the selective demolition and the temporary building weather protection as hereinafter described to the entire satisfaction of the Owner and Architect.

1.4 COORDINATION

- A. Alteration Work Subschedule: A construction schedule coordinating the sequencing and scheduling of alteration work for entire Project, including each activity to be performed, and based on Contractor's Construction Schedule. Secure time commitments for performing critical construction activities from separate entities responsible for alteration work.
 - 1. Schedule construction operations in sequence required to obtain best Work results.
 - 2. Coordinate sequence of alteration work activities to accommodate the following:
 - a. Owner's continuing occupancy of portions of existing building.
 - 3. Detail sequence of alteration work, with start and end dates.
- B. Pedestrian Circulation: Coordinate alteration work with circulation patterns within Project building(s) and site. Some work is near circulation patterns including the bridge to Capitol Building. Circulation patterns cannot be closed off entirely and in places can be only temporarily redirected around small areas of work. Access to the bridge may not be obstructed. Plan and execute the Work accordingly.
- C. Weather Protection: This protection shall provide adequate moisture wind, and cold protection during all months of the year to protect the interior of the building at work areas as defined in the construction documents. The Contractor shall furnish and install all "weather protection" material and be responsible for all costs. This provision does not supersede any specific requirements for methods of construction, curing of materials or the applicable general conditions set forth in the Contract Documents with added regard to performance obligations of the Contractor. Within 30 calendar days after Notice to Proceed, the Contractor shall submit to the Owner and Architect, in writing, three copies of its proposed methods for "Weather Protection".

1.5 QUALITY ASSURANCE

1.6 FIELD CONDITIONS

- A. Survey of Existing Conditions: Record existing conditions that affect the Work by use of photographic **and/or** video documentation.
 - 1. Comply with requirements specified in Section 01 32 33 - "Photographic Documentation."
- B. Discrepancies: Notify Architect of discrepancies between existing conditions and Drawings before proceeding with removal and dismantling work.

1.7 INFORMATIONAL SUBMITTALS

- A. Key Personnel Names: Within **15** days of starting construction operations, submit a list of key personnel assignments, including superintendent and other personnel in attendance at Project site. Identify individuals and their duties and responsibilities; list addresses and telephone numbers, including home, office, and cellular telephone numbers and e-mail addresses. Provide names, addresses, and telephone numbers of individuals assigned as alternates in the absence of individuals assigned to Project.
 - 1. Post copies of list in project interior. Keep list current at all times.

1.8 SUBMITTALS

A. COORDINATION DRAWINGS

- 1. Coordination Drawings, General: Prepare coordination drawings to illustrate contractor's method of providing weather protection as defined elsewhere in this Section.
- 2. Content: Project-specific information, drawn accurately to a scale large enough to indicate and resolve conflicts. Do not base coordination drawings on standard printed data. Include the following information, as applicable:
- 3. Use applicable Drawings as a basis for preparation of coordination drawings. Prepare sections, elevations, and details as needed to describe relationship of various systems and components.
- 4. Coordinate the addition of trade-specific information to the coordination drawings by multiple contractors in a sequence that best provides for coordination of the information and resolution of conflicts between installed components before submitting for review.
- 5. Indicate required installation sequences.

B. PRODUCT DATA

- 1. Submit manufacturer's technical product data for weather protection materials and components for review by the Architect and Owner.

PART 2 - PRODUCTS - (Not Used)

PART 3 - EXECUTION

3.1 PROTECTION

- A. Protect persons, surrounding surfaces of the building, building site, plants, and surrounding buildings from harm resulting from alteration/demolition work.
 - 1. Use only proven protection methods, appropriate to each area and surface being protected.
 - 2. Provide temporary barricades, barriers, and directional signage to exclude the public from areas where alteration work is being performed.
 - 3. Erect temporary barriers to form and maintain fire-egress routes.
 - a. Note: the bridge is a fire-egress route.
 - 4. Erect temporary protective covers over walkways and at points of pedestrian and vehicular entrance and exit that must remain in service during alteration work.
 - 5. Contain dust and debris generated by alteration work and prevent it from reaching the public or adjacent surfaces.
 - 6. Provide shoring, bracing, and supports as necessary. Do not overload structural elements.
 - 7. Protect floors and other surfaces along hauling routes from damage, wear, and staining.
 - 8. Provide supplemental sound-control treatment to isolate demolition work from other areas of the building.
- B. Temporary Protection of Materials to Remain:
 - 1. Protect existing materials with temporary protections and construction. Do not remove existing materials unless otherwise indicated.
 - 2. Do not attach temporary protection to existing surfaces except as indicated as part of the alteration work program.
- C. Comply with each product manufacturer's written instructions for protections and precautions. Protect against adverse effects of products and procedures on people and adjacent materials, components, and vegetation.
- D. Existing Drains: Prior to the start of work in an area, test drainage system to ensure that it is functioning properly. Notify Architect immediately of inadequate drainage or blockage. Do not begin work in an area until the drainage system is functioning properly.
 - 1. Prevent solids such as adhesive or mortar residue or other debris from entering the drainage system. Clean out drains and drain lines that become sluggish or blocked by sand or other materials resulting from alteration work.
 - 2. Protect drains from pollutants. Block drains or filter out sediments, allowing only clean water to pass.

3.2 GENERAL ALTERATION WORK

- A. Have specialty work performed only by qualified specialists.

- B. Ensure that supervisory personnel are present when work begins and during its progress.
- C. Record existing work before each procedure (preconstruction), and record progress during the work. Use digital preconstruction documentation photographs or video recordings. Comply with requirements in Section 01 32 33 - "Photographic Documentation."
- D. Perform surveys of Project site as the Work progresses to detect hazards resulting from alterations.
- E. Notify Architect of visible changes in the integrity of material or components whether from environmental causes including biological attack, UV degradation, freezing, or thawing or from structural defects including cracks, movement, or distortion.
 - 1. Do not proceed with the work in question until directed by Architect.

3.3 QUALITY CONTROL

- A. The temporary weather protection shall be constructed and installed so as to maintain its functional integrity for the duration of the construction period and then for a minimum of 24 months from the date of Substantial Completion. After Substantial Completion the Contractor shall be responsible for continued monthly inspection for the duration of the 24-month period and shall make necessary repairs and/or modifications necessary to maintain adequate protection as described in the previous paragraph.

3.4 CARE AND CLEANING

- A. Repair or replace broken, damaged, or otherwise defective components, materials, and work. Leave entire work area in a condition satisfactory to the Architect and owner. At completion, carefully clean and adjust components and trim that are installed as part of this work.

3.5 CLEANING UP

- A. Upon completion of the Work remove materials, equipment, apparatus, tools and the like, and leave the premises clean, neat and orderly.

END OF SECTION 01 35 16

SECTION 01 40 00 - QUALITY REQUIREMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for quality assurance and quality control.
- B. Testing and inspecting services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with the Contract Document requirements.
 - 1. Specific quality-assurance and -control requirements for individual construction activities are specified in the Sections that specify those activities. Requirements in those Sections may also cover production of standard products.
 - 2. Specified tests, inspections, and related actions do not limit Contractor's other quality-assurance and -control procedures that facilitate compliance with the Contract Document requirements.
 - 3. Requirements for Contractor to provide quality-assurance and -control services required by Architect, Owner, Commissioning Authority, or authorities having jurisdiction are not limited by provisions of this Section.
- C. See General Conditions, Section 5.20 - Materials Testing, for materials testing requirements and responsibilities.

1.3 DEFINITIONS

- A. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.
- B. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work to evaluate that actual products incorporated into the Work and completed construction comply with requirements. Services do not include contract enforcement activities performed by Architect.
- C. Field Quality-Control Testing: Tests and inspections that are performed on-site for installation of the Work and for completed Work.
- D. Testing Agency: An entity engaged to perform specific tests, inspections, or both. Testing laboratory shall mean the same as testing agency.

- E. Installer/Applicator/Erector: Contractor or another entity engaged by Contractor as an employee, Subcontractor, or Sub-subcontractor, to perform a particular construction operation, including installation, erection, application, and similar operations.
 - 1. Use of trade-specific terminology in referring to a trade or entity does not require that certain construction activities be performed by accredited or unionized individuals, or that requirements specified apply exclusively to specific trade(s).

1.4 CONFLICTING REQUIREMENTS

- A. Referenced Standards: If compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer conflicting requirements that are different, but apparently equal, to Architect for a decision before proceeding.
- B. Minimum Quantity or Quality Levels: The quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of requirements. Refer uncertainties to Architect for a decision before proceeding.

1.5 INFORMATIONAL SUBMITTALS

- A. Contractor's Quality-Control Plan: For quality-assurance and quality-control activities and responsibilities.
- B. Qualification Data: For Contractor's quality-control personnel.

1.6 CONTRACTOR'S QUALITY-CONTROL PLAN

- A. The Contractor shall develop and implement an appropriate quality assurance/quality control program for the Project. A detailed description of the program shall be furnished to the Owner and the Architect for review prior to submitting the first progress payment application.

1.7 REPORTS AND DOCUMENTS

- A. Test and Inspection Reports: Prepare and submit certified written reports specified in other Sections. Include the following:
 - 1. Date of issue.
 - 2. Project title and number.
 - 3. Name, address, and telephone number of testing agency.
 - 4. Dates and locations of samples and tests or inspections.
 - 5. Names of individuals making tests and inspections.
 - 6. Description of the Work and test and inspection method.
 - 7. Identification of product and Specification Section.
 - 8. Complete test or inspection data.

9. Test and inspection results and an interpretation of test results.
 10. Record of temperature and weather conditions at time of sample taking and testing and inspecting.
 11. Comments or professional opinion on whether tested or inspected Work complies with the Contract Document requirements.
 12. Name and signature of laboratory inspector.
 13. Recommendations on retesting and reinspecting.
- B. Manufacturer's Technical Representative's Field Reports: Prepare written information documenting manufacturer's technical representative's tests and inspections specified in other Sections. Include the following:
1. Name, address, and telephone number of technical representative making report.
 2. Statement on condition of substrates and their acceptability for installation of product.
 3. Statement that products at Project site comply with requirements.
 4. Summary of installation procedures being followed, whether they comply with requirements and, if not, what corrective action was taken.
 5. Results of operational and other tests and a statement of whether observed performance complies with requirements.
 6. Statement whether conditions, products, and installation will affect warranty.
 7. Other required items indicated in individual Specification Sections.
- C. Factory-Authorized Service Representative's Reports: Prepare written information documenting manufacturer's factory-authorized service representative's tests and inspections specified in other Sections. Include the following:
1. Name, address, and telephone number of factory-authorized service representative making report.
 2. Statement that equipment complies with requirements.
 3. Results of operational and other tests and a statement of whether observed performance complies with requirements.
 4. Statement whether conditions, products, and installation will affect warranty.
 5. Other required items indicated in individual Specification Sections.
- D. Permits, Licenses, and Certificates: For Owner's records, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, correspondence, records, and similar documents, established for compliance with standards and regulations bearing on performance of the Work.
- 1.8 QUALITY ASSURANCE
- A. General: Qualifications paragraphs in this article establish the minimum qualification levels required; individual Specification Sections specify additional requirements.
- B. Manufacturer Qualifications: A firm experienced in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
- C. Fabricator Qualifications: A firm experienced in producing products similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.

- D. Installer Qualifications: A firm or individual experienced in installing, erecting, or assembling work similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a record of successful in-service performance.
- E. Professional Engineer Qualifications: A professional engineer who is legally qualified to practice in jurisdiction where Project is located and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of the system, assembly, or products that are similar in material, design, and extent to those indicated for this Project.
- F. Specialists: Certain Specification Sections require that specific construction activities shall be performed by entities who are recognized experts in those operations. Specialists shall satisfy qualification requirements indicated and shall be engaged for the activities indicated.
 - 1. Requirements of authorities having jurisdiction shall supersede requirements for specialists.
- G. Testing Agency Qualifications: An NRTL, an NVLAP, or an independent agency with the experience and capability to conduct testing and inspecting indicated, as documented according to ASTM E 329; and with additional qualifications specified in individual Sections; and, where required by authorities having jurisdiction, that is acceptable to authorities.
 - 1. NRTL: A nationally recognized testing laboratory according to 29 CFR 1910.7.
 - 2. NVLAP: A testing agency accredited according to NIST's National Voluntary Laboratory Accreditation Program.
- H. Manufacturer's Technical Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to observe and inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.
- I. Factory-Authorized Service Representative Qualifications: An authorized representative of manufacturer who is trained and approved by manufacturer to inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.
- J. Mockups: Before installing portions of the Work requiring mockups, build mockups for each form of construction and finish required to comply with the following requirements, using materials indicated for the completed Work:
 - 1. Build mockups in location and of size indicated or, if not indicated, as directed by Architect.
 - 2. Notify Architect seven days in advance of dates and times when mockups will be constructed.
 - 3. Employ supervisory personnel who will oversee mockup construction. Employ workers that will be employed during the construction at Project.
 - 4. Demonstrate the proposed range of aesthetic effects and workmanship.
 - 5. Obtain Architect's approval of mockups before starting work, fabrication, or construction.
 - a. Allow seven days for initial review and each re-review of each mockup.
 - 6. Maintain mockups during construction in an undisturbed condition as a standard for judging the completed Work.

7. Demolish and remove mockups when directed unless otherwise indicated.

1.9 QUALITY CONTROL

- A. Owner Responsibilities: Testing of construction materials delivered to the job site shall be carried out by the Owner unless otherwise required in the Construction Documents. Refer to Section 5.20 of the General Conditions.
- B. Owner Responsibilities: Where quality-control services are indicated as Owner's responsibility, Owner will engage a qualified testing agency to perform these services.
 1. Owner will furnish Contractor with names, addresses, and telephone numbers of testing agencies engaged and a description of types of testing and inspecting they are engaged to perform.
 2. Costs for retesting and reinspecting construction that replaces or is necessitated by work that failed to comply with the Contract Documents will be charged to Contractor, and the Contract Sum will be adjusted by Change Order.
- C. Contractor Responsibilities: Tests and inspections not explicitly assigned to Owner are Contractor's responsibility. Perform additional quality-control activities required to verify that the Work complies with requirements, whether specified or not.
 1. Unless otherwise indicated, provide quality-control services specified and those required by authorities having jurisdiction. Perform quality-control services required of Contractor by authorities having jurisdiction, whether specified or not.
 2. Where services are indicated as Contractor's responsibility, engage a qualified testing agency to perform these quality-control services.
 - a. Contractor shall not employ same entity engaged by Owner, unless agreed to in writing by Owner.
 3. Notify testing agencies at least 24 hours in advance of time when Work that requires testing or inspecting will be performed.
 4. Where quality-control services are indicated as Contractor's responsibility, submit a certified written report, in duplicate, of each quality-control service.
 5. Testing and inspecting requested by Contractor and not required by the Contract Documents are Contractor's responsibility.
 6. Submit additional copies of each written report directly to authorities having jurisdiction, when they so direct.
- D. Manufacturer's Field Services: Where indicated, engage a factory-authorized service representative to inspect field-assembled components and equipment installation, including service connections. Report results in writing as specified in Section 013300 "Submittal Procedures."
- E. Manufacturer's Technical Services: Where indicated, engage a manufacturer's technical representative to observe and inspect the Work. Manufacturer's technical representative's services include participation in preinstallation conferences, examination of substrates and conditions, verification of materials, observation of Installer activities, inspection of completed portions of the Work, and submittal of written reports.

- F. Retesting/Reinspecting: Regardless of whether original tests or inspections were Contractor's responsibility, provide quality-control services, including retesting and reinspecting, for construction that replaced Work that failed to comply with the Contract Documents.
- G. Testing Agency Responsibilities: Cooperate with Architect, Commissioning Authority and Contractor in performance of duties. Provide qualified personnel to perform required tests and inspections.
 - 1. Notify Architect, Commissioning Authority, and Contractor promptly of irregularities or deficiencies observed in the Work during performance of its services.
 - 2. Determine the location from which test samples will be taken and in which in-situ tests are conducted.
 - 3. Conduct and interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from requirements.
 - 4. Submit a certified written report, in duplicate, of each test, inspection, and similar quality-control service through Contractor.
 - 5. Do not release, revoke, alter, or increase the Contract Document requirements or approve or accept any portion of the Work.
 - 6. Do not perform any duties of Contractor.
- H. Associated Services: Cooperate with agencies performing required tests, inspections, and similar quality-control services, and provide reasonable auxiliary services as requested. Notify agency sufficiently in advance of operations to permit assignment of personnel. Provide the following:
 - 1. Access to the Work.
 - 2. Incidental labor and facilities necessary to facilitate tests and inspections.
 - 3. Adequate quantities of representative samples of materials that require testing and inspecting. Assist agency in obtaining samples.
 - 4. Facilities for storage and field curing of test samples.
 - 5. Delivery of samples to testing agencies.
 - 6. Preliminary design mix proposed for use for material mixes that require control by testing agency.
 - 7. Security and protection for samples and for testing and inspecting equipment at Project site.
- I. Coordination: Coordinate sequence of activities to accommodate required quality-assurance and -control services with a minimum of delay and to avoid necessity of removing and replacing construction to accommodate testing and inspecting.
 - 1. Schedule times for tests, inspections, obtaining samples, and similar activities.

1.10 SPECIAL TESTS AND INSPECTIONS

- A. Special Tests and Inspections: Owner will engage a qualified testing agency as required by authorities having jurisdiction, as indicated in individual Specification Sections, and as follows:
 - 1. Verifying that manufacturer maintains detailed fabrication and quality-control procedures and reviews the completeness and adequacy of those procedures to perform the Work.
 - 2. Notifying Architect, Commissioning Authority, and Contractor promptly of irregularities and deficiencies observed in the Work during performance of its services.

3. Submitting a certified written report of each test, inspection, and similar quality-control service to Architect and Commissioning Authority with copy to Contractor and to authorities having jurisdiction.
4. Submitting a final report of special tests and inspections at Substantial Completion, which includes a list of unresolved deficiencies.
5. Interpreting tests and inspections and stating in each report whether tested and inspected work complies with or deviates from the Contract Documents.
6. Retesting and reinspecting corrected work.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 TEST AND INSPECTION LOG

- A. Test and Inspection Log: Prepare a record of tests and inspections. Include the following:
 1. Date test or inspection was conducted.
 2. Description of the Work tested or inspected.
 3. Date test or inspection results were transmitted to Architect.
 4. Identification of testing agency or special inspector conducting test or inspection.
- B. Maintain log at Project site. Post changes and revisions as they occur. Provide access to test and inspection log for Architect's, Commissioning Authority's, reference during normal working hours.

3.2 REPAIR AND PROTECTION

- A. General: On completion of testing, inspecting, sample taking, and similar services, repair damaged construction and restore substrates and finishes.
 1. Provide materials and comply with installation requirements specified in other Specification Sections or matching existing substrates and finishes. Restore patched areas and extend restoration into adjoining areas with durable seams that are as invisible as possible. Comply with the Contract Document requirements for cutting and patching in Section 017300 "Execution."
- B. Protect construction exposed by or for quality-control service activities.
- C. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

END OF SECTION 01 40 00

SECTION 01 42 00 - REFERENCES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 DEFINITIONS

- A. General: Basic Contract definitions are included in the Conditions of the Contract.
- B. "Directed": A command or instruction by Architect. Other terms including "requested," "authorized," "selected," "required," and "permitted" have the same meaning as "directed."
- C. "Indicated": Requirements expressed by graphic representations or in written form on Drawings, in Specifications, and in other Contract Documents. Other terms including "shown," "noted," "scheduled," and "specified" have the same meaning as "indicated."
- D. "Regulations": Laws, ordinances, statutes, and lawful orders issued by authorities having jurisdiction, and rules, conventions, and agreements within the construction industry that control performance of the Work.
- E. "Furnish": Supply and deliver to Project site, ready for unloading, unpacking, assembly, installation, and similar operations.
- F. "Install": Unload, temporarily store, unpack, assemble, erect, place, anchor, apply, work to dimension, finish, cure, protect, clean, and similar operations at Project site.
- G. "Provide": Furnish and install, complete and ready for the intended use.
- H. "Project Site": Space available for performing construction activities. The extent of Project site is shown on Drawings and may or may not be identical with the description of the land on which Project is to be built.

1.3 INDUSTRY STANDARDS

- A. Applicability of Standards: Unless the Contract Documents include more stringent requirements, applicable construction industry standards have the same force and effect as if bound or copied directly into the Contract Documents to the extent referenced. Such standards are made a part of the Contract Documents by reference.
- B. Publication Dates: Comply with standards in effect as of date of the Contract Documents unless otherwise indicated.

- C. Copies of Standards: Each entity engaged in construction on Project should be familiar with industry standards applicable to its construction activity. Copies of applicable standards are not bound with the Contract Documents.
 - 1. Where copies of standards are needed to perform a required construction activity, obtain copies directly from publication source.

1.4 ABBREVIATIONS AND ACRONYMS

- A. Industry Organizations: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities indicated in Gale's "Encyclopedia of Associations: National Organizations of the U.S." or in Columbia Books' "National Trade & Professional Associations of the United States."
- B. Code Agencies: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities in the following list. This information is believed to be accurate as of the date of the Contract Documents.
 - 1. ICC - International Code Council; www.iccsafe.org.
 - 2. ICC-ES - ICC Evaluation Service, LLC; www.icc-es.org.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 01 42 00

SECTION 01 50 00 - TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes requirements for support facilities, and security and protection facilities.
- B. Related Requirements:
 - 1. Section 01 10 00 "Summary" for work restrictions and limitations on utility interruptions.

1.3 INFORMATIONAL SUBMITTALS

- A. Fire-Safety Program: Show compliance with requirements of NFPA 241 and authorities having jurisdiction. Indicate Contractor personnel responsible for management of fire-prevention program.
- B. Moisture-Protection Plan: Describe procedures and controls for protecting materials and construction from water absorption and damage.
 - 1. Describe delivery, handling, and storage provisions for materials subject to water absorption or water damage.
 - 2. Indicate procedures for discarding water-damaged materials, protocols for mitigating water intrusion into completed Work, and replacing water-damaged Work.
 - 3. Indicate sequencing of work that requires water, such as sprayed fire-resistive materials, plastering, and terrazzo grinding, and describe plans for dealing with water from these operations. Show procedures for verifying that wet construction has dried sufficiently to permit installation of finish materials.

1.4 PROJECT CONDITIONS

- A. Temporary Use of Permanent Facilities: Engage Installer of each permanent service to assume responsibility for operation, maintenance, and protection of each permanent service during its use as a construction facility before Owner's acceptance, regardless of previously assigned responsibilities.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Portable Chain-Link Fencing: Minimum 2-inch , 0.148-inch-thick, galvanized-steel, chain-link fabric fencing; minimum 6 feet high with galvanized-steel pipe posts; minimum 2-3/8-inch-OD line posts and 2-7/8-inch-OD corner and pull posts, with 1-5/8-inch-OD top and bottom rails. Provide galvanized-steel bases for supporting posts.
- B. Dust-Control Adhesive-Surface Walk-off Mats: Provide mats minimum 36 by 60 inches.
- C. Insulation: Unfaced mineral-fiber blanket, manufactured from glass, slag wool, or rock wool; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively.

2.2 TEMPORARY FACILITIES

- A. Common-Use Field Office: Contractor may use a portion of the work space as a field office. accommodate needs of Owner, Architect, and construction personnel office activities and to accommodate project meetings specified in other Division 1 Sections. Keep office area clean and orderly.

2.3 TOILET FACILITIES

- A. The Contractor shall provide and maintain in a clean and sanitary condition in a weatherproof building, satisfactory toilet accommodations for all workmen. Minimum toilet accommodations shall consist of typical, locally available, portable frost-proof chemical toilets with urinals. Temporary or portable accommodations shall be completely removed upon completion of the Project.
 - 1. Provide temporary wash facilities at each temporary toilet location.
 - a. Provide wet wash facilities during non-freezing months and dry wash facilities during months with potential freezing.
 - 2. Provide weekly janitorial services at toilet facilities.

2.4 EQUIPMENT

- A. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.
- B. HVAC Equipment: Existing HVAC system may be used to heat the interior work space. Contractor shall restrict or disable the return air system to prevent contaminating the remainder of the occupied space inside the building.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.
- B. Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.

3.2 SUPPORT FACILITIES INSTALLATION

- A. General: Comply with the following:
 - 1. Provide construction for temporary offices, shops, and sheds located within construction area or within 30 feet of building lines that is noncombustible according to ASTM E 136. Comply with NFPA 241.
 - 2. Maintain support facilities until Architect schedules Substantial Completion inspection. Remove before Substantial Completion. Personnel remaining after Substantial Completion will be permitted to use permanent facilities, under conditions acceptable to Owner.
- B. Pedestrian Access & Control: Comply with requirements of authorities having jurisdiction.
 - 1. Maintain egress route through work area as indicated on drawings.
 - 2. Maintain access for fire-fighting equipment and access to fire hydrants.
- C. Project Signs: Provide Project signs as indicated. Unauthorized signs are not permitted.
 - 1. Identification Signs: Provide construction sign in location as directed by Owner. This sign shall be the only sign displayed on the Project site. Sign requirements are as follows:
 - a. Size: 8'x4'.
 - b. Lettering: Roman.
 - c. Lettering Color: Nevada Blue for State of Nevada. All other lettering shall be black.
 - d. Background Color: White.
 - e. Lettering Size: 1/4-inch minimum to 2-3/4-inch maximum.
 - 2. Temporary Signs: Provide other signs as indicated and as required to inform public and individuals seeking entrance to Project.
 - a. Provide temporary, directional signs for construction personnel and visitors.
 - 3. Maintain and touchup signs so they are legible at all times.
- D. Waste Disposal Facilities: Comply with requirements specified in Section 01 74 19 "Construction Waste Management and Disposal."
- E. Lifts and Hoists: Provide facilities necessary for hoisting materials and personnel.

1. Truck cranes and similar devices used for hoisting materials are considered "tools and equipment" and not temporary facilities.

3.3 SECURITY AND PROTECTION FACILITIES INSTALLATION

- A. Protection of Existing Facilities: Protect existing vegetation, equipment, structures, utilities, and other improvements at Project site and on adjacent properties, except those indicated to be removed or altered. Repair damage to existing facilities.
- B. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction as required to comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
 1. Comply with work restrictions specified in Section 01 10 00 "Summary."
- C. Temporary Erosion and Sedimentation Control: Provide measures to prevent soil erosion and discharge of soil-bearing water runoff and airborne dust to undisturbed areas and to adjacent properties and walkways, according to requirements of 2003 EPA Construction General Permit or authorities having jurisdiction, whichever is more stringent.
 1. Verify that flows of water redirected from construction areas or generated by construction activity do not enter or cross tree- or plant- protection zones.
 2. Inspect, repair, and maintain erosion- and sedimentation-control measures during construction until permanent vegetation has been established.
 3. Clean, repair, and restore adjoining properties and roads affected by erosion and sedimentation from Project site during the course of Project.
 4. Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.
- D. Stormwater Control: Comply with requirements of authorities having jurisdiction. Provide barriers in and around excavations and subgrade construction to prevent flooding by runoff of stormwater from heavy rains.
- E. Tree and Plant Protection: Comply with requirements specified in Section 015639 "Temporary Tree and Plant Protection."
- F. Pest Control: Engage pest-control service to recommend practices to minimize attraction and harboring of rodents, roaches, and other pests and to perform extermination and control procedures at regular intervals so Project will be free of pests and their residues at Substantial Completion. Perform control operations lawfully, using environmentally safe materials.
- G. Site Enclosure Fence: Prior to commencing earthwork, furnish and install site enclosure fence in a manner that will prevent people and animals from easily entering site except by entrance gates.
 1. Extent of Fence: As indicated on Drawings.
 2. Maintain security by limiting number of keys and restricting distribution to authorized personnel. Furnish one set of keys to Owner.
- H. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.

- I. Temporary Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241; manage fire-prevention program.
 - 1. Prohibit smoking in construction areas.
 - 2. Supervise combustion-type temporary heating units, and similar sources of fire ignition according to requirements of authorities having jurisdiction.
 - 3. Develop and supervise an overall fire-prevention and -protection program for personnel at Project site. Review needs with local fire department and establish procedures to be followed. Instruct personnel in methods and procedures. Post warnings and information.

3.4 MOISTURE AND MOLD CONTROL

- A. Contractor's Moisture-Protection Plan: Avoid trapping water in finished work. Document visible signs of mold that may appear during construction.
- B. Exposed Construction Phase: Before installation of weather barriers, when materials are subject to wetting and exposure and to airborne mold spores, protect as follows:
 - 1. Protect porous materials from water damage.
 - 2. Protect stored and installed material from flowing or standing water.
 - 3. Keep porous and organic materials from coming into prolonged contact with concrete.
 - 4. Remove standing water from decks.
 - 5. Keep deck openings covered or dammed.

3.5 OPERATION, TERMINATION, AND REMOVAL

- A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.
- B. Maintenance: Maintain facilities in good operating condition until removal.
 - 1. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation, and similar facilities on a 24-hour basis where required to achieve indicated results and to avoid possibility of damage.
- C. Temporary Facility Changeover: Do not change over from using temporary security and protection facilities to permanent facilities until Substantial Completion.
- D. Termination and Removal: Remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.
 - 1. Materials and facilities that constitute temporary facilities are property of Contractor. Owner reserves right to take possession of Project identification signs.
 - 2. At Substantial Completion, repair, renovate, and clean permanent facilities used during construction period. Comply with final cleaning requirements specified in Section 01 77 00 "Closeout Procedures."

END OF SECTION 01 50 00

SECTION 01 56 39 - TEMPORARY TREE AND PLANT PROTECTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes general protection and pruning of existing trees and plants that are affected by execution of the Work, whether temporary or permanent construction.
- B. Related Sections:
 - 1. Section 01 50 00 "Temporary Facilities and Controls" for temporary site fencing.

1.3 DEFINITIONS

- A. Caliper: Diameter of a trunk measured by a diameter tape at 6 inches above the ground for trees up to, and including, 4-inch size; and 12 inches above the ground for trees larger than 4-inch size.
- B. Plant-Protection Zone: Area surrounding individual trees, groups of trees, shrubs, or other vegetation to be protected during construction.
- C. Tree-Protection Zone: Area surrounding individual trees or groups of trees to be protected during construction and defined by a circle concentric with each tree with a radius 1.5 times the diameter of the drip line unless otherwise indicated.
- D. Vegetation: Trees, shrubs, groundcovers, grass, and other plants.

1.4 PROJECT CONDITIONS

- A. The following practices are prohibited within protection zones:
 - 1. Storage of construction materials, debris, or excavated material.
 - 2. Parking vehicles or equipment.
 - 3. Foot traffic.
 - 4. Erection of sheds or structures.
 - 5. Impoundment of water.
 - 6. Excavation or other digging unless otherwise indicated.
 - 7. Attachment of signs to or wrapping materials around trees or plants unless otherwise indicated.

- B. Do not direct vehicle or equipment exhaust toward protection zones.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Protection-Zone Fencing: Fencing fixed in position and meeting the following requirements.
 - 1. Plastic Protection-Zone Fencing: Plastic construction fencing constructed of high-density extruded and stretched polyethylene fabric with 2-inch maximum opening in pattern and weighing a minimum of 0.4 lb/ft. ; remaining flexible from minus 60 to plus 200 deg F ; inert to most chemicals and acids; minimum tensile yield strength of 2000 psi and ultimate tensile strength of 2680 psi ; secured with plastic bands or galvanized-steel or stainless-steel wire ties; and supported by tubular or T-shape galvanized-steel posts spaced not more than 8 feet apart.
 - a. Height: 4 feet.
 - b. Color: High-visibility orange, nonfading.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Erosion and Sedimentation Control: Examine the site to verify that temporary erosion- and sedimentation-control measures are in place. Verify that flows of water redirected from construction areas or generated by construction activity do not enter or cross protection zones.
- B. For the record, prepare written report, endorsed by arborist, listing conditions detrimental to tree and plant protection.

3.2 TREE- AND PLANT-PROTECTION

- A. Protect existing trees & shrubs from damage during the course of the Work.
- B. Take extra care to avoid trampling existing vegetation.
- C. Existing trees shall be protected at all costs.
- D. Protection-Zone Fencing: Install protection-zone fencing along edges of protection zones before materials or equipment are brought on the site and construction operations begin in a manner that will prevent people from easily entering protected area except by entrance gates. Construct fencing so as not to obstruct safe passage or visibility at vehicle intersections where fencing is located adjacent to pedestrian walkways or in close proximity to street intersections, drives, or other vehicular circulation.
 - 1. Posts: Set or drive posts into ground one-third the total height of the fence without concrete footings. Where a post is located on existing paving or concrete to remain, provide appropriate means of post support acceptable to Architect.

- E. Maintain protection zones free of weeds and trash.
- F. Repair or replace shrubs, and other vegetation indicated to remain or be relocated that are damaged by construction operations, in a manner approved by Architect.
- G. Maintain protection-zone fencing in good condition as acceptable to Architect and remove when construction operations are complete and equipment has been removed from the site.
 - 1. Do not remove protection-zone fencing, even temporarily, to allow deliveries or equipment access through the protection zone.

END OF SECTION 01 56 39

SECTION 01 73 00 - EXECUTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes general administrative and procedural requirements governing execution of the Work including, but not limited to, the following:
 - 1. Construction layout.
 - 2. Cutting and patching.
 - 3. Progress cleaning.
 - 4. Starting and adjusting.
- B. Related Requirements:
 - 1. Section 01 10 00 "Summary" for limits on use of Project site.
 - 2. Section 01 33 00 "Submittal Procedures" for submitting surveys.
 - 3. Section 01 77 00 "Closeout Procedures" for submitting final property survey with Project Record Documents, recording of Owner-accepted deviations from indicated lines and levels, and final cleaning.

1.3 DEFINITIONS

- A. Cutting: Removal of in-place construction necessary to permit installation or performance of other work.
- B. Patching: Fitting and repair work required to restore construction to original conditions after installation of other work.

1.4 INFORMATIONAL SUBMITTALS

- A. Landfill Receipts: Submit copy of receipts issued by a landfill facility, licensed to accept hazardous materials, for hazardous waste disposal.

1.5 QUALITY ASSURANCE

- A. Cutting and Patching: Comply with requirements for and limitations on cutting and patching of construction elements.

1. Visual Elements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch exposed construction in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. General: Comply with requirements specified in other Sections.
- B. In-Place Materials: Use materials for patching identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.
 1. If identical materials are unavailable or cannot be used, use materials that, when installed, will provide a match acceptable to Architect for the visual and functional performance of in-place materials.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Existing Conditions: The existence and location of underground and other utilities and construction indicated as existing are not guaranteed. Before beginning sitework, investigate and verify the existence and location of underground utilities, and other construction affecting the Work.

3.2 PREPARATION

- A. Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of the Contract Documents caused by differing field conditions outside the control of Contractor, submit a request for information to Architect according to requirements in Section 013100 "Project Management and Coordination."

3.3 CONSTRUCTION LAYOUT

- A. Verification: Before proceeding to lay out the Work, verify layout information shown on Drawings, in relation to the property survey and existing benchmarks. If discrepancies are discovered, notify Architect promptly.
- B. General: Engage a land surveyor to lay out the Work using accepted surveying practices.
 1. Establish benchmarks and control points to set lines and levels at each story of construction and elsewhere as needed to locate each element of Project.
 2. Establish limits on use of Project site.

3. Establish dimensions within tolerances indicated. Do not scale Drawings to obtain required dimensions.
 4. Inform installers of lines and levels to which they must comply.
 5. Check the location, level and plumb, of every major element as the Work progresses.
 6. Notify Architect when deviations from required lines and levels exceed allowable tolerances.
 7. Close site surveys with an error of closure equal to or less than the standard established by authorities having jurisdiction.
- C. Record Log: Maintain a log of layout control work. Record deviations from required lines and levels. Include beginning and ending dates and times of surveys, weather conditions, name and duty of each survey party member, and types of instruments and tapes used. Make the log available for reference by Architect.

3.4 CUTTING AND PATCHING

- A. Cutting and Patching, General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.
1. Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.
- B. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during installation or cutting and patching operations, by methods and with materials so as not to void existing warranties.
- C. Temporary Support: Provide temporary support of work to be cut.
- D. Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.
- E. Existing Utility Services and Mechanical/Electrical Systems: Where existing services/systems are required to be removed, relocated, or abandoned, bypass such services/systems before cutting to minimize interruption to occupied areas.
- F. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations.
1. The Work is to be performed in a manner which allows for the salvaging, and ultimate reinstallation of materials indicated in the contract documents.
 2. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots neatly to minimum size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
 3. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
 4. Concrete: Cut using a cutting machine, such as an abrasive saw or a diamond-core drill.
 5. Excavating and Backfilling: Comply with requirements in applicable Sections where required by cutting and patching operations.

6. Mechanical and Electrical Services: Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after cutting.
 7. Proceed with patching after construction operations requiring cutting are complete.
- G. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other work. Patch with durable seams that are as invisible as practicable. Provide materials and comply with installation requirements specified in other Sections, where applicable.
1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate physical integrity of installation.
 2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will minimize evidence of patching and refinishing.
 - a. Clean piping, conduit, and similar features before applying paint or other finishing materials.
 - b. Restore damaged pipe covering to its original condition.
 3. Floors and Walls: Where walls or partitions that are removed extend one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform finish, color, texture, and appearance. Remove in-place floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.
 - a. Where patching occurs in a painted surface, prepare substrate and apply primer and intermediate paint coats appropriate for substrate over the patch, and apply final paint coat over entire unbroken surface containing the patch. Provide additional coats until patch blends with adjacent surfaces.
 4. Ceilings: Patch, repair, or rehang in-place ceilings as necessary to provide an even-plane surface of uniform appearance.
 5. Exterior Building Enclosure: Patch components in a manner that restores enclosure to a weathertight condition and ensures thermal and moisture integrity of building enclosure.
- H. Cleaning: Clean areas and spaces where cutting and patching are performed. Remove paint, mortar, oils, putty, and similar materials from adjacent finished surfaces.

3.5 PROGRESS CLEANING

- A. General: Clean Project site and work areas daily, including common areas. Enforce requirements strictly. Dispose of materials lawfully.
1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.
 2. Do not hold waste materials more than seven days during normal weather or three days if the temperature is expected to rise above 80 deg F .
 3. Containerize hazardous and unsanitary waste materials separately from other waste. Mark containers appropriately and dispose of legally, according to regulations.
 - a. Use containers intended for holding waste materials of type to be stored.

4. Coordinate progress cleaning for joint-use areas where Contractor and other contractors are working concurrently.
- B. Site: Maintain Project site free of waste materials and debris.
 - C. Work Areas: Clean areas where work is in progress to the level of cleanliness necessary for proper execution of the Work.
 1. Remove liquid spills promptly.
 2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.
 - D. Installed Work: Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces.
 - E. Exposed Surfaces in Finished Areas: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.
 - F. Waste Disposal: Do not bury or burn waste materials on-site. Do not wash waste materials down sewers or into waterways. Comply with waste disposal requirements in Section 017419 "Construction Waste Management and Disposal."
 - G. During handling and installation, clean and protect existing construction and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.
 - H. Limiting Exposures: Supervise construction operations to assure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period.

END OF SECTION 01 73 00

SECTION 01 74 19 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for the following:
 - 1. Recycling nonhazardous demolition and construction waste.
 - 2. Disposing of nonhazardous demolition and construction waste.

1.3 DEFINITIONS

- A. Construction Waste: Building and site improvement materials and other solid waste resulting from construction, remodeling, renovation, or repair operations. Construction waste includes packaging.
- B. Demolition Waste: Building and site improvement materials resulting from demolition or selective demolition operations.
- C. Disposal: Removal off-site of demolition and construction waste and subsequent sale, recycling, reuse, or deposit in landfill or incinerator acceptable to authorities having jurisdiction.
- D. Recycle: Recovery of demolition or construction waste for subsequent processing in preparation for reuse.
- E. Salvage: Recovery of demolition or construction waste and subsequent sale or reuse in another facility.
- F. Salvage and Reuse: Recovery of demolition or construction waste and subsequent incorporation into the Work.

1.4 ACTION SUBMITTALS

- A. Waste Management Plan: Submit plan within 30 days of date established for the Notice to Proceed.

1.5 INFORMATIONAL SUBMITTALS

- A. Recycling and Processing Facility Records: Indicate receipt and acceptance of recyclable waste by recycling and processing facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.
- B. Landfill and Incinerator Disposal Records: Indicate receipt and acceptance of waste by landfills and incinerator facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.

1.6 QUALITY ASSURANCE

- A. Regulatory Requirements: Comply with hauling and disposal regulations of authorities having jurisdiction.
- B. Waste Management Conference: Conduct conference at Project site to comply with requirements in Section 01 31 00 "Project Management and Coordination." Review methods and procedures related to waste management including, but not limited to, the following:
 - 1. Review and discuss waste management plan including responsibilities of waste management coordinator.
 - 2. Review requirements for documenting quantities of each type of waste and its disposition.
 - 3. Review and finalize procedures for materials separation and verify availability of containers and bins needed to avoid delays.
 - 4. Review procedures for periodic waste collection and transportation to recycling and disposal facilities.
 - 5. Review waste management requirements for each trade.

1.7 WASTE MANAGEMENT PLAN

- A. General: Develop a waste management plan according to ASTM E 1609 and requirements in this Section. Plan shall consist of waste identification, waste reduction work plan, and cost/revenue analysis. Distinguish between demolition and construction waste. Indicate quantities by weight or volume, but use same units of measure throughout waste management plan.
- B. Waste Identification: Indicate anticipated types and quantities of demolition, site-clearing, and construction waste generated by the Work. Use form acceptable to Architect,. Include estimated quantities and assumptions for estimates.
- C. Waste Reduction Work Plan: List each type of waste and whether it will be salvaged, recycled, or disposed of in landfill or incinerator. Use form acceptable to Architect. Include points of waste generation, total quantity of each type of waste, quantity for each means of recovery, and handling and transportation procedures.
 - 1. Recycled Materials: Include list of local receivers and processors and type of recycled materials each will accept. Include names, addresses, and telephone numbers.
 - 2. Disposed Materials: Indicate how and where materials will be disposed of. Include name, address, and telephone number of each landfill and incinerator facility.

3. Handling and Transportation Procedures: Include method that will be used for separating recyclable waste including sizes of containers, container labeling, and designated location where materials separation will be performed.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 PLAN IMPLEMENTATION

- A. General: Implement approved waste management plan. Provide handling, containers, storage, signage, transportation, and other items as required to implement waste management plan during the entire duration of the Contract.
 1. Comply with operation, termination, and removal requirements in Section 015000 "Temporary Facilities and Controls."
- B. Training: Train workers, subcontractors, and suppliers on proper waste management procedures, as appropriate for the Work.
 1. Distribute waste management plan to everyone concerned within three days of submittal return.
 2. Distribute waste management plan to entities when they first begin work on-site. Review plan procedures and locations established for salvage, recycling, and disposal.
- C. Site Access and Temporary Controls: Conduct waste management operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
 1. Designate and label specific areas on Project site necessary for separating materials that are to be salvaged, recycled, reused, donated, and sold.
 2. Comply with Section 01 50 00 "Temporary Facilities and Controls" for controlling dust and dirt, environmental protection, and noise control.

3.2 RECYCLING DEMOLITION and CONSTRUCTION WASTE, GENERAL

- A. General: Recycle paper and beverage containers used by on-site workers.
- B. Recycling Incentives: Revenues, savings, rebates, tax credits, and other incentives received for recycling waste materials shall be shared equally by Owner and Contractor.
- C. Preparation of Waste: Prepare and maintain recyclable waste materials according to recycling or reuse facility requirements. Maintain materials free of dirt, adhesives, solvents, petroleum contamination, and other substances deleterious to the recycling process.
- D. Procedures: Separate recyclable waste from other waste materials, trash, and debris. Separate recyclable waste by type at Project site to the maximum extent practical according to approved construction waste management plan.

1. Provide appropriately marked containers or bins for controlling recyclable waste until removed from Project site. Include list of acceptable and unacceptable materials at each container and bin.
 - a. Inspect containers and bins for contamination and remove contaminated materials if found.
2. Stockpile processed materials on-site without intermixing with other materials. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
3. Stockpile materials away from construction area. Do not store within drip line of remaining trees.
4. Store components off the ground and protect from the weather.
5. Remove recyclable waste from Owner's property and transport to recycling receiver or processor.

3.3 RECYCLING DEMOLITION WASTE

- A. Metals: Separate metals by type.
 1. Structural Steel: Stack members according to size, type of member, and length.
 2. Remove and dispose of bolts, nuts, washers, and other rough hardware.
- B. Gypsum Board: Stack large clean pieces on wood pallets or in container and store in a dry location. Remove edge trim and sort with other metals. Remove and dispose of fasteners.
- C. Carpet: Roll large pieces tightly after removing debris, trash, adhesive, and tack strips.
 1. Store clean, dry carpet in a closed container or trailer provided by Carpet Reclamation Agency or carpet recycler.

3.4 RECYCLING CONSTRUCTION WASTE

- A. Packaging:
 1. Cardboard and Boxes: Break down packaging into flat sheets. Bundle and store in a dry location.
 2. Pallets: As much as possible, require deliveries using pallets to remove pallets from Project site. For pallets that remain on-site, break down pallets into component wood pieces and comply with requirements for recycling wood.

3.5 DISPOSAL OF WASTE

- A. General: Except for items or materials to be salvaged, recycled, or otherwise reused, remove waste materials from Project site and legally dispose of them in a landfill or incinerator acceptable to authorities having jurisdiction.
 1. Except as otherwise specified, do not allow waste materials that are to be disposed of accumulate on-site.
 2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.

- B. Burning: Do not burn waste materials.
- C. Disposal: Remove waste materials from Owner's property and legally dispose of them.

END OF SECTION 01 74 19

SECTION 01 77 00 - CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:
 - 1. Substantial Completion procedures.
 - 2. Final completion procedures.
 - 3. Warranties.
 - 4. Final cleaning.
 - 5. Repair and/or build back of the Work.
- B. Related Requirements:
 - 1. Section 01 32 33 "Photographic Documentation" for submitting final completion construction photographic documentation.
 - 2. Section 01 73 00 "Execution" for progress cleaning of Project site.
 - 3. Section 01 78 39 "Project Record Documents" for submitting record Drawings, record Specifications, and record Product Data.

1.3 ACTION SUBMITTALS

- A. Product Data: For cleaning agents.
- B. Contractor's List of Incomplete Items: Initial submittal at Substantial Completion.
- C. Certified List of Incomplete Items: Final submittal at Final Completion.

1.4 MAINTENANCE MATERIAL SUBMITTALS

- A. Schedule of Maintenance Material Items: For maintenance material submittal items specified in other Sections.

1.5 SUBSTANTIAL COMPLETION PROCEDURES

- A. Refer to General Conditions of the Contract, Section 3.4 for Substantial Completion

1.6 FINAL COMPLETION

- A. See General Conditions of the Contract, Section 3.5, for Final Completion.

1.7 PUNCH LIST

- A. Organization of List: Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.
 - 1. Organize list of spaces in sequential order, starting with exterior areas first and proceeding from lowest floor to highest floor.
 - 2. Organize items applying to each space by major element, including categories for ceiling, individual walls, floors, equipment, and building systems.
 - 3. Include the following information at the top of each page:
 - a. Project name.
 - b. Date.
 - c. Name of Architect.
 - d. Name of Contractor.
 - e. Page number.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

PART 3 - EXECUTION

3.1 FINAL CLEANING

- A. General: Perform final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.
- B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.
 - 1. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a designated portion of Project:
 - a. Clean Project site, yard, and grounds, in areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter, and other foreign substances.

- b. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits.
 - c. Rake grounds that are neither planted nor paved to a smooth, even-textured surface.
 - d. Remove tools, construction equipment, machinery, and surplus material from Project site.
 - e. Remove snow and ice to provide safe access to building.
 - f. Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
 - g. Remove debris and surface dust from limited access spaces, including roofs, plenums, shafts, trenches, equipment vaults, manholes, attics, and similar spaces.
 - h. Sweep concrete floors broom clean in unoccupied spaces.
 - i. Clean transparent materials, including mirrors and glass in doors and windows.
 - j. Remove labels that are not permanent.
 - k. Clean ducts, blowers, and coils if units were operated without filters during construction or that display contamination with particulate matter on inspection.
 - l. Clean light fixtures, lamps, globes, and reflectors to function with full efficiency.
 - m. Leave Project clean and ready for occupancy.
- C. Construction Waste Disposal: Comply with waste disposal requirements in Section 01 74 19 "Construction Waste Management and Disposal."

3.2 REPAIR OF THE WORK

- A. Complete repair and restoration operations before requesting inspection for determination of Substantial Completion.
- B. Repair or replace damaged surfaces not part of the demolition activities, touching up with matching materials, and properly adjusting operating equipment. Where damaged items cannot be repaired or restored, provide replacements.

END OF SECTION 01 77 00

SECTION 01 78 39 - PROJECT RECORD DOCUMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for project record documents, including the following:
 - 1. Record Drawings.
 - 2. Record Specifications.
- B. Related Requirements:
 - 1. Section 01 73 00 "Execution" for final property survey.
 - 2. Section 01 77 00 "Closeout Procedures" for general closeout procedures.

1.3 CLOSEOUT SUBMITTALS

- A. Record Drawings: Comply with the following:
 - 1. Number of Copies: Submit one set(s) of marked-up record prints.
- B. Record Specifications: Submit one paper copy of Project's Specifications, including addenda and contract modifications.
- C. Reports: Submit written report indicating items incorporated into project record documents concurrent with progress of the Work, including revisions, concealed conditions, field changes, product selections, and other notations incorporated.

PART 2 - PRODUCTS

2.1 RECORD DRAWINGS

- A. Record Prints: Maintain one set of marked-up paper copies of the Contract Drawings and Shop Drawings, incorporating new and revised drawings as modifications are issued. Record Prints shall be maintained as noted in Section 2.6 of the General Conditions of the Contract.
 - 1. Preparation: Mark record prints to show the actual installation where installation varies from that shown originally. Require individual or entity who obtained record data, whether

individual or entity is Installer, subcontractor, or similar entity, to provide information for preparation of corresponding marked-up record prints.

- a. Give particular attention to information on concealed elements that would be difficult to identify or measure and record later.
 - b. Accurately record information in an acceptable drawing technique.
 - c. Record data as soon as possible after obtaining it.
 - d. Record and check the markup before enclosing concealed installations.
 - e. Cross-reference record prints to corresponding archive photographic documentation.
2. Content: Types of items requiring marking include, but are not limited to, the following:
- a. Dimensional changes to Drawings.
 - b. Revisions to details shown on Drawings.
 - c. Changes made by Change Order or Construction Change Directive.
 - d. Changes made following Architect's written orders.
 - e. Details not on the original Contract Drawings.
3. Mark the Contract Drawings and Shop Drawings completely and accurately. Use personnel proficient at recording graphic information in production of marked-up record prints.
4. Mark record sets with erasable, red-colored pencil. Use other colors to distinguish between changes for different categories of the Work at same location.
5. Mark important additional information that was either shown schematically or omitted from original Drawings.
6. Note Construction Change Directive numbers, alternate numbers, Change Order numbers, and similar identification, where applicable.
- B. Format: Identify and date each record Drawing; include the designation "PROJECT RECORD DRAWING" in a prominent location.
1. Record Prints: Organize record prints and newly prepared record Drawings into manageable sets. Bind each set with durable paper cover sheets. Include identification on cover sheets.
 2. Format: Annotated PDF electronic file.
 3. Record Digital Data Files: Organize digital data information into separate electronic files that correspond to each sheet of the Contract Drawings. Name each file with the sheet identification. Include identification in each digital data file.
 4. Identification: As follows:
 - a. Project name.
 - b. Date.
 - c. Designation "PROJECT RECORD DRAWINGS."
 - d. Name of Architect.
 - e. Name of Contractor.

2.2 RECORD SPECIFICATIONS

- A. Preparation: Mark Specifications to indicate the actual product installation where installation varies from that indicated in Specifications, addenda, and contract modifications.

1. Give particular attention to information on concealed products and installations that cannot be readily identified and recorded later.
 2. Mark copy with the proprietary name and model number of products, materials, and equipment furnished, including substitutions and product options selected.
 3. Record the name of manufacturer, supplier, Installer, and other information necessary to provide a record of selections made.
 4. Note related Change Orders and record Drawings where applicable.
- B. Format: Submit record Specifications as scanned PDF electronic file(s) of marked-up paper copy of Specifications.

PART 3 - EXECUTION

3.1 RECORDING AND MAINTENANCE

- A. Recording: Maintain one copy of each submittal during the construction period for project record document purposes. Post changes and revisions to project record documents as they occur; do not wait until end of Project.
- B. Maintenance of Record Documents and Samples: Store record documents and Samples in the field office apart from the Contract Documents used for construction. Do not use project record documents for construction purposes. Maintain record documents in good order and in a clean, dry, legible condition, protected from deterioration and loss. Provide access to project record documents for Architect's reference during normal working hours.
- C. Upon completion or termination of the project, the set of record documents shall be delivered to the Architect as noted in Section 2.6 of the General Conditions of the Contract.

END OF SECTION 01 78 39

SECTION 02 41 19 - SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Demolition and removal of selected portions of building or structure.
2. Salvage of existing items to be reused or recycled.

B. Related Requirements:

1. Section 01 10 00 "Summary" for restrictions on use of the premises, Owner-occupancy requirements, and phasing requirements.
2. Section 01 56 39 "Temporary Tree and Plant Protection" for temporary protection of existing trees and plants that are affected by selective demolition.
3. Section 01 73 00 "Execution" for cutting and patching procedures.

1.2 DEFINITIONS

- A. Remove: Detach items from existing construction and dispose of them off-site unless indicated to be salvaged or reinstalled.
- B. Remove and Salvage: Detach items from existing construction, in a manner to prevent damage, and deliver to Owner ready for reuse.
- C. Remove and Reinstall: Detach items from existing construction, in a manner to prevent damage, prepare for reuse, and reinstall where indicated.
- D. Existing to Remain: Leave existing items that are not to be removed and that are not otherwise indicated to be salvaged or reinstalled.
- E. Dismantle: To remove by disassembling or detaching an item from a surface, using gentle methods and equipment to prevent damage to the item and surfaces; disposing of items unless indicated to be salvaged or reinstalled.

1.3 MATERIALS OWNERSHIP

- A. Unless otherwise indicated, demolition waste becomes property of Contractor.
- B. Historic items, relics, antiques, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, and other items of interest or value to Owner that may be uncovered during demolition remain the property of Owner.
1. Carefully salvage in a manner to prevent damage and promptly return to Owner.

1.4 PREINSTALLATION MEETINGS

- A. Predemolition Conference: Conduct conference at Project site
 - 1. Inspect and discuss condition of construction to be selectively demolished.
 - 2. Review structural load limitations of existing structure.
 - 3. Review and finalize selective demolition schedule and verify availability of materials, demolition personnel, equipment, and facilities needed to make progress and avoid delays.
 - 4. Review requirements of work performed by other trades that rely on substrates exposed by selective demolition operations.
 - 5. Review areas where existing construction is to remain and requires protection.

1.5 INFORMATIONAL SUBMITTALS

- A. Proposed Protection Measures: Submit report, including Drawings, that indicates the measures proposed for protecting individuals and property , for environmental protection, for dust control and , for noise control. Indicate proposed locations and construction of barriers.
- B. Schedule of Selective Demolition Activities: Indicate the following:
 - 1. Detailed sequence of selective demolition and removal work, with starting and ending dates for each activity. Ensure Owner's building manager's and other tenants' on-site operations are uninterrupted.
 - 2. Interruption of utility services. Indicate how long utility services will be interrupted.
 - 3. Coordination for shutoff, capping, and continuation of utility services.
 - 4. Use of elevator and stairs.
 - a. Freight Elevator 002 and Stairs 008 & 009.
 - 5. Coordination of Owner's continuing occupancy of portions of existing building and of Owner's partial occupancy of completed Work.
- C. Predemolition Photographs or Video: Show existing conditions of adjoining construction, including finish surfaces, that might be misconstrued as damage caused by salvage and demolition operations. Comply with Section 01 32 33 "Photographic Documentation." Submit before Work begins.

1.6 CLOSEOUT SUBMITTALS

- A. Inventory: Submit a list of items that have been removed and salvaged.

1.7 QUALITY ASSURANCE

1.8 FIELD CONDITIONS

- A. Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted.
- B. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.

- C. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
- D. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.
 - 1. Hazardous materials will be removed by Owner before start of the Work.
 - 2. If suspected hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Hazardous materials will be removed by Owner under a separate contract.
- E. Storage or sale of removed items or materials on-site is not permitted.
- F. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
 - 1. Maintain fire-protection facilities in service during selective demolition operations.

1.9 COORDINATION

- A. Arrange selective demolition schedule so as not to interfere with Owner's operations.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities having jurisdiction.
- B. Standards: Comply with ANSI/ASSP A10.6 and NFPA 241.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that utilities have been disconnected and capped before starting selective demolition operations.
- B. Review Project Record Documents of existing construction or other existing condition and hazardous material information provided by Owner. Owner does not guarantee that existing conditions are same as those indicated in Project Record Documents.
- C. Verify that hazardous materials have been remediated before proceeding with building demolition operations.
- D. Survey of Existing Conditions: Record existing conditions by use of preconstruction photographs or video.

1. Inventory and record the condition of items to be removed and salvaged.
2. Before selective demolition or removal of existing building elements that will be reproduced or duplicated in final Work, make permanent record of measurements, materials, and construction details required to make exact reproduction.

3.2 PROTECTION

- A. Temporary Protection: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
 1. Provide protection to ensure safe passage of people around selective demolition area and to and from occupied portions of building.
 2. Provide temporary weather protection, during interval between selective demolition of existing construction on exterior surfaces and new construction, to prevent water leakage and damage to structure and interior areas.
 3. Protect walls, ceilings, floors, and other existing finish work that are to remain or that are exposed during selective demolition operations.
 4. Comply with requirements for temporary enclosures, dust control, heating, and cooling specified in Section 015000 "Temporary Facilities and Controls."
- B. Remove temporary barricades and protections where hazards no longer exist.

3.3 SELECTIVE DEMOLITION, GENERAL

- A. General: Demolish and remove existing construction only to the extent required by consultants performing assessments and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
 1. The intent of the demolition is to facilitate the structural assessment of the selected areas. Prior to "completion" of the demolition portion of the Work, the contractor shall walk the project with the structural engineer (CFBR) and building envelope consultant (UNVC) to confirm no additional areas of demolition are necessary.
 2. Demolition shall be performed in a careful manner and in such a way as to facilitate the build back of the building envelope as indicated in the Contract Documents.
 3. Proceed with selective demolition systematically, from higher to lower level. Complete selective demolition operations above each floor or tier before disturbing supporting members on the next lower level.
 4. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping. Temporarily cover openings to remain.
 5. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
 6. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain portable fire-suppression devices during flame-cutting operations.
 7. Maintain fire watch during and for at least 4 hours after flame-cutting operations.
 8. Maintain adequate ventilation when using cutting torches.
 9. Remove decayed, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site.

10. Remove structural framing members and lower to ground by method suitable to avoid free fall and to prevent ground impact or dust generation.
11. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
12. Dispose of demolished items and materials promptly. Comply with requirements in Section 01 74 19 "Construction Waste Management and Disposal."

B. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.

C. Removed and Salvaged Items:

1. Clean salvaged items.
2. Pack or crate items after cleaning. Identify contents of containers.
3. Transport items to Owner's storage area designated by Owner.

3.4 SELECTIVE DEMOLITION PROCEDURES FOR SPECIFIC MATERIALS

A. Masonry: Demolish in small sections. Cut masonry at junctures with construction to remain, using power-driven saw, and then remove masonry between saw cuts.

1. Salvage all masonry (brick veneer and brick pavers) and deliver to Owner.
2. Salvage the Talking Books High-Density Storage shelving and deliver to Owner.

3.5 DISPOSAL OF DEMOLISHED MATERIALS

A. Remove demolition waste materials from Project site and dispose of them in an EPA-approved construction and demolition waste landfill acceptable to authorities having jurisdiction according to Section 01 74 19 "Construction Waste Management and Disposal."

1. Do not allow demolished materials to accumulate on-site.
2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
3. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.
4. Comply with requirements specified in Section 01 74 19 "Construction Waste Management and Disposal."

B. Burning: Do not burn demolished materials.

3.6 CLEANING

A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

END OF SECTION 02 41 19