

## ADDENDUM NO: 01

**DATE:** 13 August 2020  
**PROJECT NO:** 143.004  
**PROJECT:** T.O. Smith Elementary Rebuild  
3295 Gramercy Ave  
Ogden, Utah 84403  
**OWNER:** Ogden School District  
1950 Monroe Blvd.  
Ogden, Utah 84401

N R Y L O R  
W E N T W O R T H  
L U N D  
A R C H I T E C T S



THE ITEMS LISTED IN THIS **ADDENDUM** WILL BECOME PART OF THE GENERAL CONTRACT AND WILL BE INCLUDED IN THE APPROPRIATE DRAWING OR SPECIFICATION SECTION AS NOTED UNDER EACH OF THE FOLLOWING ITEMS.

### GENERAL REQUIREMENTS

None

### SPECIFICATIONS

#### **Specification 00 0102 Index Vol I**

1. Add specification 09 2513 Direct Applied EFS to the index, already included within the specification.

#### **Specification 00 4100 Bid Form**

1. Updated bid form attached with additional unit price.

#### **Specification 00 7300 Supplementary General Conditions**

1. Replace Supplementary General Conditions complete, revisions are highlighted in green.

#### **Specification 01 1000 Summary**

1. 1.04 Description of Demolition Work, Add Paragraphs B. and C. as follows:
  - B. The contractor shall salvage the following items and turn over to the owner:
    1. LED light Bulbs.
    2. Evaporation Coolers – qty (4) (coordinate location with Owner / Construction Manager)
    3. Breakers in electric panels.
    4. 74 Gal water heater in boiler room.
  - C. The owner shall salvage the following items prior to demolition:
    1. Remove parts from boiler.
    2. Remove miscellaneous Kitchen equipment including walk-in cooler and freezer.

#### **Specification 01 2200 Unit Prices**

1. 1.07 Schedule of Unit Prices; add the following unit price:

ITEM	DESCRIPTION	UNIT	UNIT COST
7	Alternate flooring adhesive, refer to specification 09 0561	sq ft	

**Specification 05 3400 Acoustical Metal Decking**

1. 2.01 Manufacturers, B; revise item 4. As follows:

4. New Millennium: [www.newmill.com](http://www.newmill.com)

- a. Product: 3.5" Versa-Dek LS Acoustical

Note to contractors: This deck is 1" deeper than the basis of design and will require some minor modifications. Specifically, (but not limited to) the head details of the clerestory storefront types S12a, S12b, and S12c, which will be addressed if they are the successful bidder. This deck will also allow for more room to install the lateral sprinkler piping/heads.

**Specification 07 2119 Foamed-In-Place Insulation**

1. 2.01 Manufacturer, B; add the following Other Approved Manufacturer:

8. SWD Urethane; Product: Quik-Shield 118

**Specification 07 2500 Membrane Weather Barriers**

1. 2.01 Air Infiltration Barrier, A, 7; add the following acceptable product:

- c. Dorken Systems Inc.; Delta-Vent SA; [www.dorken.com](http://www.dorken.com)

**Specification 07 7200 Roof Hatches and Accessories**

1. 2.01 Roof Hatches, A; add the following acceptable manufacturer:

8. Precision Ladders, LLC; [www.precisionladders.com](http://www.precisionladders.com)

**Specification 08 7101 Hardware Sets**

1. Replace this specification complete, revisions are highlighted in blue with deletions struck out in red.

**Specification 09 0561 Common Work Results for Flooring Preparation**

1. Replace this specification complete.

**Specification 11 6133 Platform Rigging Systems and Curtains**

1. 2.01 Manufacturers, A; add the following acceptable manufacturer:

4. Janson Industries

- a. Address: Canton, Ohio 44706

- b. Phone: (303) 455-7029

- c. Email: [stage@jansonindustries.com](mailto:stage@jansonindustries.com)

**Specification 11 6623 Gymnasium Equipment**

1. 2.04 Volleyball Equipment, A; add the following Manufacturer:

5. Bison Inc; [www.bisoninc.com](http://www.bisoninc.com)

2. 2.05 Basketball Equipment, A; add the following Manufacturer:

7. Bison Inc; [www.bisoninc.com](http://www.bisoninc.com)

3. 2.05 Basketball Equipment, C; add the following:

7. Height Adjuster – same as side court assemblies.

**Specification 11 6643 Interior Electronic Scoreboards**

1. 2.01 Manufacturers, C; add the following Other Manufacturer:  
  
6. Daktronics; [www.daktronics.com](http://www.daktronics.com)

**Specification 11 6813 Playground Equipment**

1. 2.01 Playground Equipment, A, 2.; add the following Other Approved Manufacturer:  
  
d. Playcraft Systems; [www.playcraftsystems.com](http://www.playcraftsystems.com)
2. 2.02 Basketball Equipment, A, 2.; add the following Other Approved Manufacturer:  
  
f. Bison, Inc.; [www.bisoninc.com](http://www.bisoninc.com)

**Specification 32 1840 Poured-in-Place Rubberized Surfacing**

1. 2.01 Poured-In -Place Playground Surfacing System, A; add the following Manufacturers:  
  
4. DuraPlay, Inc.; [www.duraplay.com](http://www.duraplay.com)  
5. Flexground; [www.flexground.com](http://www.flexground.com)

**DRAWINGS**

**Sheet A105 – Area A2 Annotation Plan**

1. 3A, Area A2 High Window Plan, add storefront window callouts S12a, S12b, S12c.

**Sheet A407 – Interior Elevations**

1. Elevation 1A, 5E, and 3E – Replaced ‘Form Ply’ verbiage with ‘Form Liner’ and identified the form liner. Replace sheet with attached.

**Sheet A601 - Door Schedule**

2. Door Schedule, Door B107a and B206a, revise hardware set from 39 to 39.1.

**Sheet A610 – Opening Details**

1. Detail 6E, 5E, and 4E – revised dimensions. Replace with attached sheet.

**ATTACHED ADDENDA**

**Item 1.** Structural, (1) narrative sheet, and (3) 30" x 42" drawings.

**Item 2.** Mechanical, (3) narrative sheets

**Item 3.** Electrical, (3) narrative sheets and (10) 30" x 42" drawings.

**END OF ADDENDUM**

**SECTION 00 4100  
BID FORM**

BID FOR: T.O. Smith Elementary School Rebuild  
3295 Gramercy Ave  
Ogden, Utah 84403

TO: Ogden City School District  
Purchasing Office, 1950 Monroe Blvd  
Ogden, UT, 84401

Name of Bidder: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Phone #: \_\_\_\_\_ Fax#: \_\_\_\_\_

Contractor's Contact: \_\_\_\_\_ Phone #: \_\_\_\_\_

Contractors, License No.: \_\_\_\_\_ License Expiration Date: \_\_\_\_\_

To Whom it may concern:

The undersigned has carefully examined the site, the proposed Contract Documents consisting of Drawings, Specifications, and all Addenda prepared by NWL ARCHITECTS pertinent to the construction of the above referenced Project and further, being familiar with all other conditions affecting the Work, the undersigned hereby proposes and agrees to furnish and provide all labor, materials, supervision, transportation, tools, equipment, services and other facilities necessary and required for the expeditious completion of the Work included in the Bid Division indicated above, in strict conformity with said conditions and Contract Documents.

The undersigned has reviewed the work outlined in the Bid Division, fully understands the scope of work required in this Proposal, acknowledges that the Proposal includes the work of all trades.

The undersigned agrees to complete the work required within the Bid Division, within the time indicated in Contract Documents subject to liquidated damages as specified in the Contract Documents

Enclosed is a Bid Security for five percent (5%) of the amount of the Base Bid, made payable to the order of Ogden City District, to be left in escrow with the Owner as a guarantee that the undersigned will enter into a Contract and will furnish specified insurance and bonds.

The undersigned has notified the Construction Manager of any discrepancies or omissions, or of any doubt about the meaning of any of the Contract Documents, and has contacted the Construction Manager before bid date to verify the issuing of any clarifying Addenda.



**ADDENDA**

I/We acknowledge receipt of the following addenda (Include All Addenda Received):

No: _____	Date: _____
No: _____	Date: _____
No: _____	Date: _____
No: _____	Date: _____
No: _____	Date: _____
No: _____	Date: _____

**BASE BID**

THIS PUBLIC SCHOOL PROJECT IS SALES TAX EXEMPT; DO NOT INCLUDE SALES TAX IN YOUR BID! Note: All materials purchased for this project are tax exempt and subject to Form TC-721 Exemption Certificate, to be filed with each vendor.

The undersigned proposes to provide and construct the Work, in accordance with the Contract Documents for the lump-sum price of (including allowances):

\_\_\_\_\_ Dollars (\$ \_\_\_\_\_)  
(Amount shall be shown in both words and figures. In case of discrepancy, the amount shown in words shall govern).

**UNIT PRICES**

Unit Prices included on the Bid Form shall include full compensation for all required labor, products, tools, equipment, plant, transportation, services and incidentals; erection, application or installation of an item of the Work; overhead and profit. The following unit prices shall be used to adjust the contract amount through change order should it become necessary to change the quantity of work from those shown in the contract documents:

As specified in 01 2200 provide the following unit prices:

- |    |   |                     |
|----|---|---------------------|
| A. | Removal and replacement of 100 sf of asphalt (RD-3/C102)                                | \$ _____ /100 sq ft |
| B. | Removal and replacement of 100 sf of side walk (RD-5/C102)                              | \$ _____ /100 sq ft |
| C. | Removal and replacement of 10 lf of curb and gutter (RD-4/C102):                        | \$ _____ /10 lf     |
| D. | Removal and replacement of 10 lf of waterway (H/C100):                                  | \$ _____ /10 lf     |
| E. | Additional specified 6ft chain link type 1 fabric fencing with 2 installed posts 10 lf: | \$ _____ /10 lf     |
| F. | Additional (1) 4ft wide 6ft high specified chain link type 1 fabric swing gate:         | \$ _____ /Each      |
| G. | Alternate flooring adhesive, refer to specification 09 0561                             | \$ _____ / sq ft    |

**ALTERNATES**

Prices included on the Bid Form shall include full compensation for all required labor, products, tools, equipment, plant, transportation, services and incidentals; erection, application or installation of an item of Work, including overhead and profit.

As specified in section 01 2300 provide cost for the following alternates:

Alternate No. 01: Sunpower Helix – Photovoltaic System Equipment.

Total Alternate Price \_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

Alternate No. 02: Creative Energies – Photovoltaic System Equipment.

Total Alternate Price \_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

Alternate No. 03: Ceramic Frit Patterned Glass specified in 08 8000 glass.

Total Alternate Price \_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

**ALLOWANCES**

As specified in section 01 2100 the following allowances shall be included in the base bid amount:

A. Cash allowance of \$25,000 for residential appliances.

B. Unit allowance to furnish and install (15) unrated access doors, location to be determined during construction.

1. Refer to section 08 3100 Access Doors and Panels

Unit price \$ \_\_\_\_\_ each.

Total allowance price \_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

C. Owner Contingency Allowance: Include the stipulated sum/price of \$750,000.00 for use upon Owner's instructions.

**AGREEMENT**

It is understood and agreed that if written notice of the Owner's acceptance of this proposal is mailed, emailed, or delivered to the undersigned after the opening of the bid, and within Ninety (90) days, or at any time thereafter before this bid is withdrawn, the undersigned will execute and deliver to the Owner a Contract in accordance with the bid as accepted, and will also furnish and deliver to the Owner the Payment Bond, Performance Bond and Certificate of Insurance as specified, all within ten (10) working days after receipt of notification of award, and that the work under the Contract shall be commenced by the undersigned bidder, if awarded the Contract, on the date to be stated in a Notice to Proceed, issued to the Contractor and shall be completed by the Contractor in the time specified in the Contract Documents. In the event the bidder to whom an award is made fails or refuses to execute the Contract within the specified time frame, the Owner may declare the bidder's bid security forfeited as damages caused by the failure of the bidder to enter into the Contract.

Enclosed herewith is a listing of subcontractors, or scope of work being self-performed. If notified by the Construction Manager, Bidder must provide a binding certified copy of this list within twenty-four (24) hours of the notification. Failure to include this list in the bid or provide the certified list as described in the bidding instructions may result in a rejection of Bid.

The undersigned acknowledges the fact that the Owner reserves the right to accept or reject any and all proposals, to waive any informality in receipt of this proposal, with or without cause or reason, and award the Contract on the basis stated in the Instructions to Bidders.

NOTE: If bidder is a corporation, the legal name of the corporation shall be set forth below, together with the signatures of authorized officers or agents; if bidder is a partnership, the true name of the firm shall be set forth below together with the signature of the partner or partners authorized to sign contracts on behalf of the partnership; and if bidder is an individual, his signature shall be placed below.

Basis of Award: Contract award shall be based upon the sum of the Base Bid, Allowances, and District accepted alternates.

**LIST OF SUBCONTRACTORS**

PROJECT: T.O. Smith Elementary School Rebuild

Pursuant to the provisions as set forth in Instructions to Bidders, and the General Conditions, the above named Contractor hereby designates below the names and locations of the place of business of each subcontractor. District may request subcontractor license number

SUBCONTRACTOR (IF SELF PERFORM LIST)	BUSINESS ADDRESS	SCOPE OF WORK /(AMOUNT IF SELF PERFORM)
<hr/>	<hr/>	<hr/>
<hr/>	<hr/>	<hr/>
<hr/>	<hr/>	<hr/>
<hr/>	<hr/>	<hr/>
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<hr/>	<hr/>	<hr/>


\_\_\_\_\_  
Name of Bidder

\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Date

**END OF DOCUMENT**

SECTION 00 7300

**SUPPLEMENTARY GENERAL CONDITIONS**

**THE FOLLOWING SUPPLEMENTS MODIFY THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, AIA DOCUMENT A232, 2007 EDITION. WHERE A PORTION OF THE GENERAL CONDITIONS IS MODIFIED OR DELETED BY THESE SUPPLEMENTARY CONDITIONS, THE REMAINING UNALTERED PORTIONS OF THE GENERAL CONDITIONS SHALL REMAIN IN AS IS.**

**ARTICLE 1 GENERAL PROVISIONS**

**1.1 Basic Definitions**

Add to Subparagraph 1.1.4 - The Project as follows:

1.1.4 The project is more completely defined under Section 01 1000, Summary of the Work.

**1.2 Correlation and Intent of the Contract Documents**

Add to Subparagraph 1.2.1 as follows:

1.2.1 In the event of conflicts or discrepancies among the Contract Documents, interpretations will be based on the following priorities:

- 1) The Agreement.
- 2) Addenda, with those of later date having precedence over those of earlier date.
- 3) The Supplementary Conditions.
- 4) The General Conditions of the Contract for Construction.  
Drawings and Specifications.

In the case of an inconsistency between Drawings and Specifications or within either Document not clarified by addendum, the better quality or greater quantity of work shall be provided in accordance with the Architect's interpretation.

The Contractor shall not 'scale' the Contract Document drawings to define dimensions or locations of building walls, columns, etc. Review dimensioned drawings to define required locations, if not indicated, coordinate and review with the Architect prior to continuing construction.

**ADD NEW SUBPARAGRAPH 1.2.4 AS FOLLOWS:**

1.2.4 The omission of minor details of construction, installation, material or other essential items of usual or standard construction from the drawings or specifications shall not relieve the Contractor from furnishing the same in place complete. Such omission shall not entitle this Contractor to make claims for extras on material or labor.

**ARTICLE 2 OWNER**

**2.3 Information and Services Required of the Owner**

Delete Subparagraph 2.3.5. and substitute the following:

2.3.5 The Architect will furnish to the General Contractor a complete set of electronic format construction documents (drawings and specifications) for the project. It will then be the General Contractors responsibility to distribute said documents, either electronic or hard copy to his Subcontractors that will be necessary for the execution of the work.

### **ARTICLE 3 CONTRACTOR**

#### **3.6 Taxes**

Delete Subparagraph 3.6.1 and substitute the following:

3.6.1 Beginning January 1, 1996, the State of Utah provided an exemption from sales tax for construction materials purchased for public education. The exemption applies to all construction materials purchased by or on behalf of institutions of the public education system, provided the construction materials are clearly identified and installed or converted to real property which is owned by the public education institution. It is the intent of the Ogden School District to take advantage of the tax exemption on all construction material used in the TO Smith Elementary Rebuild . The Owner can take advantage of this exemption by structuring its agreements with its Contractor and suppliers so that title to construction material passes from the supplier to the Owner or the Contractor (on behalf of the Owner) upon delivery to the construction site after January 1, 1996. Tax exempt form TC-721 must be used by the vendors when purchasing construction materials. The Owner will provide a Form TC-721, signed by the Ogden School District Director of Purchasing, or designee, authorizing the exemption of sales tax on material purchases for the Contractor's use in purchasing materials. Refer to State Tax Commission, Publication 35, Rev. 6/96 or Tax Bulletin 16-96.

#### **3.7 Permits, Fees, Notices and Compliance with Laws**

Delete Subparagraph 3.7.1 and substitute the following:

3.7.1 The Contractor shall secure and the Owner shall pay for any permits, fees and inspections required by work included in this Contract. All licensing shall be secured and paid for by the Contractor.

Modify Subparagraph 3.7.4 as follows:

3.7.4 Three (3) days in lieu of fourteen (14) days.

Modify Subparagraph 3.7.5 as follows:

3.7.5 Amend the first sentence in this subparagraph to read, "If, in the course of the Work, the Contractor encounters human remains or recognizes the existence of burial markers, wetlands or hazardous waste deposits not indicated in the Contract Documents, the Contractor shall immediately suspend any operations that would affect them and shall notify the Owner and Architect."

#### **3.8 Allowances**

Modify Subparagraph 3.8.2.1 as follows:

.1 Allowances shall cover the total cost to the Contractor of materials and equipment delivered to the site, labor, installation costs, overhead and profit, other expenses contemplated, and all required taxes (if any) less applicable trade discounts.

Omit Subparagraph 3.8.2.2.

No changes to Subparagraph 3.8.2.3.

Add Subparagraph 3.8.2.4 as follows:

.4 At closeout of contract, funds remaining in Contingency Allowance will be credited to the Owner by Change Order.

#### **3.10 Contractor's Construction and Submittal Schedules**

Modify Subparagraph 3.10.1 as follows:

3.10.1 In the first sentence change the word "promptly" to "within seven days of Owner/Architect acceptance of Subcontractor List".

Add new Subparagraph 3.10.1.1 as follows:

.1 The Contractor shall show this information in the form of either C.P.M. or bar graph.

Modify Subparagraph 3.10.2 as follows:

3.10.2 In the first sentence change the word "promptly" to "within seven (7) days of Owner/Architect acceptance of Subcontractor List".

3.10.2 Substitute the words, "Architect's Review," for "Architect's Approval," in this paragraph.

**3.11 Documents and Samples at the Site**

Add new Subparagraph 3.11.1 as follows:

3.11.1 The Contractor shall also be responsible for providing a work table and dedicated set of documents with addenda, change orders, etc. for use only by the special inspector.

**3.12 Shop Drawings, Product Data and Samples**

Modify Subparagraph 3.12.8 as follows:

3.12.8 Substitute the words, " Review," for " Approval," in this paragraph.

**ARTICLE 4 ARCHITECT AND CONSTRUCTION MANAGER**

**4.2 Administration of the Contract**

Modify Subparagraph 4.2.11 as follows:

4.2.11 Omit the words, "and approve" and add "and review" in the first sentence in this subparagraph.

4.2.11 Amend the last sentence in this subparagraph to read, "The Architect's review of a specific item shall not indicate approval of the item or the assembly of which the item is a component."

**ARTICLE 5 SUBCONTRACTORS**

**5.2 Award of Subcontracts and other Contracts for Portions of the Work**

Modify Subparagraph 5.2.1 as follows:

- b. 5.2.1 Omit the words, "as soon as practicable" and add "No later than twenty four (24) hours"

Modify Subparagraph 5.2.4 as follows:

5.2.4 The Contractor shall not change a Subcontractor, person or entity previously selected without written notification and acceptance of the Owner and Architect.

**ARTICLE 6**

**CONSTRUCTION BY THE OWNER OR BY SEPARATE CONTRACTORS**

No modifications.

**ARTICLE 7 CHANGES IN THE WORK**

**Replace 7.2 Change Orders as follows**

7.2.1 A Change Order is a written instrument prepared by the Construction Manager and signed by the Owner, Construction Manager, Architect, and Contractor, stating their agreement upon all of the following:

- 1 The change in the Work;
- 2 The amount of the adjustment, if any, in the Contract Sum; and
- 3 The extent of the adjustment, if any, in the Contract Time.

7.2.2 Markup Percentage Fee:



- .1. Net amount of less than \$5,000. Percentage Fee to be paid to any Contractor (regardless of tier) on self performed work shall be a single markup percentage not to exceed 15% of the net amount.
- .2. Net amount of \$5,000 or greater. Percentage Fee to be paid to any Contractor (regardless of tier) on self performed work shall be a single markup percentage not to exceed 10% of the net amount.
- .3. The Markup Percentage Fee to be paid to any Contractor (regardless of tier) on any Subcontractor Work shall be a single percentage not to exceed 5% of the total allowable cost of sublet Work.

**7.2.3 Change Order Proposals**

- .1 Change Order proposals require itemization. Details to be submitted will include a material and labor quantity take off and related pricing information and extensions from each subcontractor and material supplier.

**ARTICLE 8 TIME**

**8.2 Progress and Completion**

Add new Subparagraph 8.2.4 as follows:

- 8.2.4 Substantial completion of the Work shall be achieved as stipulated on Bid Form and in Owner/Contractor Agreement.

**ARTICLE 9 PAYMENTS AND COMPLETION**

**9.3 Applications for Payment**

Add the following sentence to Subparagraph 9.3.1:

- 9.3.1 The form of Application for Payment shall be notarized AIA Documents **G732** Application and Certificate for Payment and G703 Continuation Sheet.

Add new Subparagraph 9.3.1.3 as follows:

- 9.3.1.3 Until the Work is one hundred percent (100%) complete, the Owner shall pay ninety-five percent (95%) of the amount due the Contractor on account of progress payments.

Add new Subparagraph 9.3.1.4 as follows:

- 9.3.1.4 The initial contract payment shall not be approved by the Construction Manager and Architect without a Contractor Master schedule having been prior approved by the Construction Manager. No subsequent monthly contract payment shall be approved by the Construction Manager or Architect without an approved updated contractor Master schedule.

**9.6 Progress Payments**

Modify Subparagraph 9.6.1 to read as follows:

- 9.6.1 Notice of extended payment provision. Application and certification for payment received by the fifth day of the month shall be reviewed and accepted or rejected by the tenth day of the month.

This Contract shall allow the Owner to make payment within thirty (30) days after acceptance of billings.

**9.8 Substantial Completion**

Add the following sentence to Subparagraph 9.8.5:

- 9.8.5 The payment shall be sufficient to increase the total payments to 100 percent of the Contract Sum, less such amounts the Architect and Construction Manager shall determine for incomplete Work and unsettled claims.

**ADD NEW PARAGRAPH 9.11 AS FOLLOWS:**

**9.11 Liquidated Damages**

9.11.1 The Contractor and the Contractor's surety shall be liable for and shall pay the Owner the sums hereinafter stipulated as **liquidated damages** for each calendar day of delay until the Work is complete: **\$3000 for Substantial completion and \$1500 for Final completion.**

9.11.2 Should the Contractor fail to complete the Work within the time agreed upon in the Contract Documents, or within such additional time as may have been allowed by extension, there shall be deducted from any moneys due or that may become due the Contractor the sum as stated in paragraph 9.11.1. Such sum is fixed and agreed upon by the Owner and Contractor as liquidated damages due the Owner by reason of inconvenience and added costs of administration, engineering, and supervision resulting from the Contractor's default, and not as a penalty.

9.11.3 Permitting the Contractor to continue and finish the Work or any part of the Work after the time fixed for its completion, or after the date to which the time for completion may have been extended, shall in no way operate as a waiver on the part of the Owner of any of his rights under the Agreement.

## **ARTICLE 10**

### **PROTECTION OF PERSONS AND PROPERTY**

No modifications.

## **ARTICLE 11 INSURANCE AND BONDS**

### **INSURANCE AND BONDS**

In addition to the insurance required under Article 11, the Contractor shall effect and maintain the following insurance:

COVERAGES		CERTIFICATE NUMBER:		REVISION NUMBER:	
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.					
INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY) POLICY EXP (MM/DD/YYYY)
A	<input checked="" type="checkbox"/> <b>COMMERCIAL GENERAL LIABILITY</b> <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> X, C, U <input checked="" type="checkbox"/> Contractual Liab GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:	Y	Y		
					EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 \$
C	<b>AUTOMOBILE LIABILITY</b> <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS	Y	Y		
					COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$ Coll. Ded \$1,000
B	<input checked="" type="checkbox"/> <b>UMBRELLA LIAB</b> <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000	Y	Y		
					EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000 \$
	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A		
					PER STATUTE <input type="checkbox"/> OTH-ER <input type="checkbox"/> E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
D	Professional Liability				
					Per Occurrence \$1,000,000 Aggregate Limit \$1,000,000 Retention \$50,000

The above policy shall name the **Owner, Architect, and Construction Manager** as additional insured. Reference is made to Paragraph 3.18, Indemnification, of AIA Document A232 Contractor shall furnish the Owner with certificates of insurance complying with all requirements. The certificates shall be signed by a person authorized to bind coverage on the insurer's behalf. Coverage on a claims-made basis will not be acceptable.

### **11.1 Contractor's Insurance and Bonds**

**Add the following paragraph:**

**11.1.1.1** The Contractor shall provide insurance coverage for portions of the Work stored off the site after written approval of the Owner at the value established in the approval, and also for portions of the Work in transit.

**Add the following paragraphs:**

**11.1.2.1** The Contractor shall furnish bonds covering faithful performance of the Contract and payment obligations arising there under. Costs of bonds shall be included in the Contractor's bid. The amount of each bond shall be equal to one hundred percent (100%) of the Contract Sum.

**11.1.2.2** The Contractor shall deliver the required bonds to the Owner not later than three days following the date the Agreement is entered into.

**11.1.2.3** The Contractor shall require the attorney-in-fact who executes the required bonds on behalf of the surety to affix thereto a certified and current copy of the power of attorney.

## **ARTICLE 12**

### **UNCOVERING AND CORRECTION OF WORK**

No modifications.

## **ARTICLE 13 MISCELLANEOUS PROVISIONS**

### **13.5 Tests and Inspections**

Modify Subparagraph 13.5.1 as follows:

13.5.1 Substitute the words, "review or reviews," wherever the words, "approve, approval, or approvals," occur in this paragraph.

### **ADD NEW PARAGRAPH 13.8 AS FOLLOWS:**

#### **13.8 Equal Opportunity**

13.8.1 The Contractor shall maintain policies of employment as follows:

.1 The Contractor and the Contractor's Subcontractors shall not discriminate against any employee or applicant for employment because of race, religion, color, sex or national origin. The Contractor shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, religion, color, sex or national origin. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the policies of non-discrimination.

.2 The Contractor and the Contractor's Subcontractors shall, in all solicitations or advertisements for employees placed by them or on their behalf, state that all qualified applicants will receive consideration for employment without regard to race, religion, color, sex or national origin.

### **ADD NEW PARAGRAPH 13.9 AS FOLLOWS:**

#### **13.9 Compliance with Labor Laws**

13.9.1 The Contractor and the Contractor's Subcontractors shall comply with all applicable Laws and Regulations relating to labor on Public Works in the State of Utah, including *U.S. Code Title 8 USC Sec. 1324a, Utah Code Title 34 Chapter 30 and Title 13 Chapter 47*:

13.9.2 The following references are included herein so that the Contractor shall be aware of specific requirements of these sections. Other Law sections are not shown herein, but this in no way relieves the Contractor of His obligation to comply with all Federal, State, and Local Labor Laws.

.1 **U.S. Code Title 8 USC Sec. 1324a Unlawful Employment** (1)(A) It is unlawful for a person or other entity - to hire, or to recruit or refer for a fee, for employment in the United States an alien knowing the alien in an unauthorized alien. (2) **Continuing Employment** - It is unlawful for a person or other entity, after hiring an alien for employment in accordance with paragraph (1) to continue to employ the alien in the United States knowing the alien in (or has become) an unauthorized alien with respect to such employment. (4) **Use of labor through contract** - For purposes of this section, a person or other entity who uses a contract, subcontract, or exchange, entered into, renegotiated, or extended after November 6, 1986, to obtain the labor of an alien in the United States knowing that the alien is an unauthorized alien (as defined in subsection (h)(3) in this section) with respect to performing such labor, shall be considered to have hired the alien for employment in the United States in violation of paragraph (1)(A).

.2 **Ut Code 34-30-1. Citizens to be given preference** - In employing workmen in the construction of public works by the state or any county or municipality, or by persons contracting with the state or any county or municipality, preference shall be give to citizens of the United States, or those having declared their intention of becoming citizens. In each contract for the construction of public works a provision shall be inserted to the effect that, if the provisions of this section are not complied with, the contract shall be void.

.3 **Ut Code 34-30-8. Forty-hour work week** - Forty hours shall constitute a working week on all works and undertakings carried on by the state, county, or municipal governments, or by any officer of the state or of any county or municipal government. Any persons, corporation, firm, contractor, agent, manager, or foreman, who shall require contract with any person to work upon such works or undertakings longer than 40 hours in one week shall pay such employees at at rate not less than one and one-half times the regular rate at which he is employed. (Piece work rates have to by greater than or equal to minimum wage and one and one-half times minimum wage for hours worked over 40; Minimum wage and overtime laws still apply).

.4 **Ut Code 34-30-9. Violation of chapter** - Any officer, agent, or representative if the state or of any political subdivision, district or municipality of it who shall violate, or omit to comply with any of the provisions of this chapter, and any contractor or subcontractor, or agent or representative thereof, doing such public work, who shall neglect to keep, or cause to be kept, an accurate record of the names, occupation and actual wages paid to each laborer, workman and mechanic employed by him, in connection with this public work or who shall refuse to allow access to same at any reasonable hour to any person authorized to inspect same under this chapter shall be guilty of a misdemeanor.

.5 **Ut Code 13-47-201. Verification required for new hires** - (1) A private employer who employs 15 or more employees as of July 1, 2010, may not hire a new employee on or after July 1, 2010, unless the private employer: (a) is registered with a status verification system to verify the federal legal working status of any new employee; and (b) uses the status verification system to verify the federal legal working status of the new employee in accordance with the requirements of the status verification system. (2) This section does not apply to a private employer of a

foreign national if the foreign national holds a visa issued in response to a petition by the private employer that is classified as H-2A or H-2B.

**ARTICLE 15 CLAIMS AND DISPUTES**

**15.1 Claims**

Add this sentence to the end of Subparagraph 15.1.1:

15.1.1 A claim must contain the following explicit language in order to be recognized as a "Claim": **"THIS IS A CLAIM AS DEFINED BY CLAUSE 15.1.1 OF AIA DOCUMENT A232."**

Modify Subparagraph 15.1.3.1 as follows:

15.1.3.1 Substitute 10 days for 21 days, where the latter occurs in this subparagraph.

**END OF SUPPLEMENTARY GENERAL CONDITIONS**

**HARDWARE GROUP NO. 01**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

1	EA	CYL HOUSING	AS REQ'D BY DOOR MFG		ILC
1	EA	PERMANENT CORE	15395 RA X 1903 SL9 (981 KEYWAY)	626	ILC
		REMAINING HARDWARE	BY DOOR MFG/SUPPLIER	626	

**HARDWARE GROUP NO. 02**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
1	EA	ELECTRIC HINGE	5BB1 4.5 X 4.5 CON TW8	652	IVE
1	EA	<u>FSE ELEC LOCK</u> (STORE ROOM LOCK)	<u>195-FEU</u> -(195 FEU)	626	MKS
1	EA	SURFACE CLOSER	4040XP SCUSH MC TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	429AA-S	AA	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	545A-223	A	ZER
1	EA	VIEWER	U696	626	IVE
1	EA	CREDENTIAL READER	BY DIV 28		B/O
1	EA	DOOR CONTACT	679-05HM	BLK	SCE
(+)		POWER SUPPLY	& RELAYS BY DIV 28		B/O

CARD IN. USER PRESENTS CREDENTIAL, ELECTRIFIED LOCKSET LEVER RELEASES, USER OPENS DOOR TO ENTER. DOOR POSITION IS MONITORED BY ACCESS CONTROL/SECURITY SYSTEM.

**HARDWARE GROUP NO. 03****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

6	EA	HINGE	5BB1HW 5 X 4.5 NRP	630	IVE
2	EA	MANUAL FLUSH BOLT	FB458	626	IVE
1	EA	DUST PROOF STRIKE	DP2	626	IVE
1	EA	STOREROOM LOCK	195 F	626	MKS
1	EA	PERMANENT CORE	15395 RA X 1903 SL9 (981 KEYWAY)	626	ILC
2	EA	WALL STOP	FS18S (TO BE MOUNTED ON WALL)	BLK	IVE
1	EA	GASKETING	188SBK PSA (ASTRAGAL)	BK	ZER
1	EA	GASKETING	429AA-S	AA	ZER
2	EA	DOOR SWEEP	39A	A	ZER
1	EA	ASTRAGAL	43SP (ACTIVE LEAF, PULL SIDE)	SP	ZER
1	EA	THRESHOLD	545A-223	A	ZER
<u>2</u>	<u>EA</u>	<u>DOOR CONTACT</u>	<u>679-05HM</u>	<u>BLK</u>	<u>SCE</u>

**DOOR POSITION IS MONITORED BY ACCESS CONTROL/SECURITY SYSTEM.****HARDWARE GROUP NO. 04****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
1	EA	STOREROOM LOCK	195 F	626	MKS
1	EA	SURFACE CLOSER	4040XP HCUSH MC TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	429AA-S	AA	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	545A-223	A	ZER
<u>1</u>	<u>EA</u>	<u>DOOR CONTACT</u>	<u>679-05HM</u>	<u>BLK</u>	<u>SCE</u>

**DOOR POSITION IS MONITORED BY ACCESS CONTROL/SECURITY SYSTEM.**

**HARDWARE GROUP NO. 05**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	PANIC HARDWARE	LD-XP98-EO	626	VON
1	EA	SURFACE CLOSER	4040XP SCUSH MC TBWMS	689	LCN
1	EA	GASKETING	429AA-S	AA	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	545A-223	A	ZER
1	EA	DOOR CONTACT	679-05HM	BLK	SCE

EXIT ONLY. DOOR POSITION IS MONITORED THROUGH ACCESS CONTROL/SECURITY SYSTEM.

**HARDWARE GROUP NO. 06**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

(2) Exterior kinder play area gates – refer to Site Development Plans

1	EA	PANIC HARDWARE	LD-XP98-NL-L/TRIM-WH	626	VON
1	EA	RIM CYLINDER	7015RA (981 KEYWAY)	626	ILC
		REMAINING HARDWARE	BY GATE MFG/SUPPLIER		B/O

**HARDWARE GROUP NO. 07**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

6	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	REMOVABLE MULLION	4954 STAB	689	VON
1	EA	PANIC HARDWARE	LD-XP98-EO	626	VON
1	EA	PANIC HARDWARE	LD-XP98-L-NL-06	626	VON
1	EA	RIM CYLINDER	7015RA (981 KEYWAY)	626	ILC
2	EA	SURFACE CLOSER	4040XP SHCUSH MC TBWMS	689	LCN
1	EA	GASKETING	429AA-S	AA	ZER
1	EA	MULLION SEAL	8780NBK PSA	BK	ZER
2	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	545A-223	A	ZER
2	EA	DOOR CONTACT	679-05HM	BLK	SCE

DOOR POSITION IS MONITORED BY ACCESS CONTROL/SECURITY SYSTEM.



**HARDWARE GROUP NO. 08****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1HW 5 X 4.5 NRP	630	IVE
1	EA	PANIC HARDWARE	XP98-L-06	626	VON
1	EA	RIM CYLINDER	7015RA (981 KEYWAY)	626	ILC
1	EA	SURFACE CLOSER	4040XP HCUSH MC TBWMS	689	LCN
1	EA	GASKETING	429AA-S	AA	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	545A-223	A	ZER
1	EA	DOOR CONTACT	679-05HM	BLK	SCE

DOOR POSITION IS MONITORED BY ACCESS CONTROL/SECURITY SYSTEM.

**HARDWARE GROUP NO. 09****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	STOREROOM LOCK	195 F	626	MKS
1	EA	PERMANENT CORE	15395 RA X 1903 SL9 (981 KEYWAY)	626	ILC
1	EA	SURFACE CLOSER	4040XP RW/PA MC TBWMS	689	LCN
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

**HARDWARE GROUP NO. 10****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	DEADBOLT	130 K	626	MKS
1	EA	PERMANENT CORE	15395 RA X 1903 SL9 (981 KEYWAY)	626	ILC
1	EA	WALL STOP	WS406/407CCV	630	IVE

**HARDWARE GROUP NO. 11**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PRIVACY LATCHSET	195 L	626	MKS
1	EA	SURFACE CLOSER	4040XP RW/PA MC TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	COAT AND HAT HOOK	543	630	IVE

**HARDWARE GROUP NO. 12**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	KEYED PRIVACY W/DB & IND	L9496L 06A L583-363	626	SCH
1	EA	MORTISE CYLINDER	7185RA (981 KEYWAY)	626	ILC
1	EA	SURFACE CLOSER	4040XP RW/PA MC TBWMS	689	LCN
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	COAT AND HAT HOOK	543	630	IVE

**HARDWARE GROUP NO. 13**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	KEYED PRIVACY W/DB & IND	L9496L 06A L583-363	626	SCH
1	EA	MORTISE CYLINDER	7185RA (981 KEYWAY)	626	ILC
1	EA	SURFACE CLOSER	4040XP RW/PA MC TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	COAT AND HAT HOOK	543	630	IVE

**HARDWARE GROUP NO. 14****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	FAC RESTRM W/IND	L9486L 06A L583-363 DND	626	SCH
1	EA	MORTISE CYLINDER	7185RA (981 KEYWAY)	626	ILC
1	EA	SURFACE CLOSER	4040XP RW/PA MC TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	COAT AND HAT HOOK	543	630	IVE

**HARDWARE GROUP NO. 15****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1HW 5 X 4.5	652	IVE
1	EA	OFF/ENT LOCKSET	195 AB	626	MKS
1	EA	PERMANENT CORE	15395 RA X 1903 SL9 (981 KEYWAY)	626	ILC
1	EA	SURFACE CLOSER	4040XP HW/PA MC TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

**HARDWARE GROUP NO. 16****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	OFF/ENT LOCKSET	195 AB	626	MKS
1	EA	PERMANENT CORE	15395 RA X 1903 SL9 (981 KEYWAY)	626	ILC
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

**HARDWARE GROUP NO. 17**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	195 S	626	MKS
1	EA	PERMANENT CORE	15395 RA X 1903 SL9 (981 KEYWAY)	626	ILC
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

**HARDWARE GROUP NO. 18**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

6	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	AUTO FLUSH BOLT	FB41T	630	IVE
1	EA	CLASSROOM LOCK	195 S	626	MKS
1	EA	PERMANENT CORE	15395 RA X 1903 SL9 (981 KEYWAY)	626	ILC
1	EA	COORDINATOR	COR X FL	628	IVE
1	EA	CARRYBAR	CB1	652	IVE
1	EA	SURFACE CLOSER	4040XP HW/PA MC TBWMS	689	LCN
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
2	EA	WALL STOP	WS406/407CCV	630	IVE
2	EA	SILENCER	SR64	GRY	IVE

**HARDWARE GROUP NO. 19**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	195 S	626	MKS
1	EA	PERMANENT CORE	15395 RA X 1903 SL9 (981 KEYWAY)	626	ILC
1	EA	OH STOP	90S J	630	GLY
3	EA	SILENCER	SR64	GRY	IVE

**HARDWARE GROUP NO. 20****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	CLASSROOM LOCK	195 S	626	MKS
1	EA	PERMANENT CORE	15395 RA X 1903 SL9 (981 KEYWAY)	626	ILC
1	EA	SURFACE CLOSER	4040XP HCUSH MC TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

**HARDWARE GROUP NO. 21****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	CLASSROOM LOCK	195 S	626	MKS
1	EA	PERMANENT CORE	15395 RA X 1903 SL9 (981 KEYWAY)	626	ILC
1	EA	SURFACE CLOSER	4040XP HW/PA MC TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

**HARDWARE GROUP NO. 22****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	195 S	626	MKS
1	EA	PERMANENT CORE	15395 RA X 1903 SL9 (981 KEYWAY)	626	ILC
1	EA	SURFACE CLOSER	4040XP HW/PA MC TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

**HARDWARE GROUP NO. 23**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	CLASSROOM LOCK	195 S	626	MKS
1	EA	PERMANENT CORE	15395 RA X 1903 SL9 (981 KEYWAY)	626	ILC
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

**HARDWARE GROUP NO. 24**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	CLASSRM SEC LOCK	195 DB	626	MKS
2	EA	PERMANENT CORE	15395 RA X 1903 SL9 (981 KEYWAY)	626	ILC
1	EA	SURFACE CLOSER	4040XP HEDA MC TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

**HARDWARE GROUP NO. 25**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

<del>2</del> (3)	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
<u>1</u>	<u>EA</u>	<u>ELECTRIC HINGE</u>	<u>5BB1 4.5 X 4.5 CON TW8</u>	<u>652</u>	<u>IVE</u>
<del>1</del>	<del>EA</del>	<del>CLASSRM SEC LOCK</del>	<del>195 DB</del>	<del>626</del>	<del>MKS</del>
<u>1</u>	<u>EA</u>	<u>FSE ELEC LOCK</u>	<u>195-FEU</u>	<u>626</u>	<u>MKS</u>
<u>1</u> (2)	EA	PERMANENT CORE	15395 RA X 1903 SL9 (981 KEYWAY)	626	ILC
1	EA	SURFACE CLOSER	4040XP SHCUSH MC TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
<u>1</u>	<u>EA</u>	<u>FLOOR MTD MAG HOLDER</u>	<u>2600</u>	<u>630</u>	<u>ABH</u>
1	EA	GASKETING	488SBK PSA	BK	ZER

AUTO LOCK /UNLOCK THROUGH ACCESS CONTROL/SECURITY SYSTEM. DOOR MAY BE  
HELD OPEN WITH MAG LOCK.UPON LOCKDOWN INITIATION, MAG LOCK WILL RELEASE  
AND LOCKSET WILL LOCK.

**HARDWARE GROUP NO. 26****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1HW 5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	195 F	626	MKS
1	EA	PERMANENT CORE	15395 RA X 1903 SL9 (981 KEYWAY)	626	ILC
1	EA	SURFACE CLOSER	4040XP RW/PA MC TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	488SBK PSA (DRS A032A, A041A)	BK	ZER
3	EA	SILENCER	SR64	GRY	IVE

**HARDWARE GROUP NO. 27****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	195 F	626	MKS
1	EA	PERMANENT CORE	15395 RA X 1903 SL9 (981 KEYWAY)	626	ILC
1	EA	SURFACE CLOSER	4040XP RW/PA MC TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	488SBK PSA (DRS A032A, A041A)	BK	ZER
3	EA	SILENCER	SR64	GRY	IVE

**HARDWARE GROUP NO. 28****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	STOREROOM LOCK	195 F	626	MKS
1	EA	PERMANENT CORE	15395 RA X 1903 SL9 (981 KEYWAY)	626	ILC
1	EA	OH STOP	90S	652	GLY
1	EA	GASKETING	488SBK PSA	BK	ZER

**HARDWARE GROUP NO. 29**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	195 F	626	MKS
1	EA	PERMANENT CORE	15395 RA X 1903 SL9 (981 KEYWAY)	626	ILC
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

**HARDWARE GROUP NO. 30**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

6	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	MANUAL FLUSH BOLT	FB458 (TOP)	626	IVE
1	EA	STOREROOM LOCK	195 F	626	MKS
1	EA	PERMANENT CORE	15395 RA X 1903 SL9 (981 KEYWAY)	626	ILC
2	EA	WALL STOP	WS406/407CCV	630	IVE
2	EA	SILENCER	SR64	GRY	IVE

**HARDWARE GROUP NO. 31**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	195 F	626	MKS
1	EA	REMOTE SWITCH	BY DIV 26	⚡	B/O
1	EA	PERMANENT CORE	15395 RA X 1903 SL9 (981 KEYWAY)	626	ILC
1	EA	SURFACE CLOSER	4040XP RW/PA MC TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MAG HOLDER	2100	⚡	626 ABH
1	EA	GASKETING	488SBK PSA	BK	ZER

MAGWALL MAGNET MAY BE RELEASED REMOTELY FROM LOCATION TBD.



**HARDWARE GROUP NO. 32****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	STOREROOM LOCK	195 F	626	MKS
1	EA	PERMANENT CORE	15395 RA X 1903 SL9 (981 KEYWAY)	626	ILC
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

**HARDWARE GROUP NO. 33****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	STOREROOM LOCK	195 F	626	MKS
1	EA	PERMANENT CORE	15395 RA X 1903 SL9 (981 KEYWAY)	626	ILC
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

**HARDWARE GROUP NO. 34****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	PANIC HARDWARE	LD-98-L-NL-06	626	VON
1	EA	RIM CYLINDER	7015RA (981 KEYWAY)	626	ILC
1	EA	ELECTRIC STRIKE	6300 FSE	✓ 630	VON
1	EA	SURFACE CLOSER	4040XP SCUSH MC TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE
1	EA	CREDENTIAL READER	BY DIV 28		B/O
1	EA	DOOR CONTACT	679-05HM	BLK	SCE
1	EA	DOOR POSITION SWITCH	BY DOOR MFG/SUPPLIER	✓	B/O

CARD IN. USER PRESENTS CREDENTIAL, ELECTRIC STRIKE KEEPER RELEASES, USER OPENS DOOR TO ENTER. DOOR POSITION IS MONITORED THROUGH ACCESS CONTROL SYSTEM.

**HARDWARE GROUP NO. 35**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	POWER TRANSFER	EPT10	✈ 689	VON
1	EA	DELAYED PANIC HARDWARE	CX98-L-06 24 VDC	✈ 626	VON
1	EA	RIM CYLINDER	7015RA (981 KEYWAY)	626	ILC
1	EA	MORTISE CYLINDER	7185RA (981 KEYWAY) (ARMING)	626	ILC
1	EA	SURFACE CLOSER	4040XP HEDA MC TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
2	EA	CREDENTIAL READER	BY DIV 28		B/O
<del>(+)</del>	<del>(EA)</del>	<del>POWER SUPPLY</del>	<del>(POWER</del> <del>SUPPLY)</del>	<del>&amp; RELAYS BY DIV 28</del> <del>(PS902-900-</del> <del>2RS-120/240 VAC)</del>	<del>B/O</del> <del>(VON)</del>

WHEN ARMED, CARD IN CARD OUT. TO ENTER: USER PRESENTS CREDENTIAL, EXIT DEVICE DELAY AND ALARM IS SHUNTED, EXIT DEVICE TRIM IS RELEASED AND USER DEPRESSES LEVER TO ENTER. TO EXIT: USER PRESENTS CREDENTIAL, EXIT DEVICE DELAY AND ALARM IS SHUNTED, USER PUSHES EXIT DEVICE BAR TO EXIT. UNAUTHORIZED EXIT: USER PUSHES EXIT DEVICE WITHOUT PRESENTING CREDENTIAL. ALARM SOUNDS AND EXITING IS DELAYED FOR 15 SECONDS. INTERFACE IS REQUIRED WITH FIRE-LIFE SAFETY SYSTEM FOR IMMEDIATE RELEASE OF DELAY IN THE EVENT OF A FIRE. WHEN CLASSROOM IS EMPTY, EXIT DEVICE LEVER TRIM CAN BE LOCKED BY KEY WITHOUT ARMING DEVICE.

**HARDWARE GROUP NO. 36**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1HW 5 X 4.5 NRP	652	IVE
1	EA	PANIC HARDWARE	98-L-NL-06	626	VON
1	EA	RIM CYLINDER	7015RA (981 KEYWAY)	626	ILC
1	EA	SURFACE CLOSER	4040XP RW/PA MC TBWMS	689	LCN
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

**HARDWARE GROUP NO. 37****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1HW 5 X 4.5 NRP	652	IVE
1	EA	PANIC HARDWARE	98-L-06	626	VON
1	EA	RIM CYLINDER	7015RA (981 KEYWAY)	626	ILC
1	EA	SURFACE CLOSER	4040XP HEDA MC TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

**HARDWARE GROUP NO. 38****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
1	EA	PANIC HARDWARE	98-L-06	626	VON
1	EA	RIM CYLINDER	7015RA (981 KEYWAY)	626	ILC
1	EA	SURFACE CLOSER	4040XP HEDA MC TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

EXIT DEVICES MAY BE DOGGED BY HEXKEY FOR PUSH/PULL OPERATION.

**HARDWARE GROUP NO. 39****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

<del>2</del> <del>(3)</del>	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
<u>1</u>	<u>EA</u>	<u>ELECTRIC HINGE</u>	<u>5BB1HW 4.5 X 4.5 TW8</u>	<u>652</u>	<u>IVE</u>
1	EA	PANIC HARDWARE	<u>98-L-E996-06-FSE 24 VDC</u> <del>(LD-98-NL)</del>	626	VON
1	EA	RIM CYLINDER	7015RA (981 KEYWAY)	626	ILC
1	EA	SURFACE CLOSER	4040XP RW/PA MC TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	MAG HOLDER	2100	<del>626</del>	ABH
3	EA	SILENCER	SR64	GRY	IVE

AUTO LOCK /UNLOCK THROUGH ACCESS CONTROL/SECURITY SYSTEM. DOOR MAY BE HELD OPEN WITH MAG LOCK. UPON LOCKDOWN INITIATION, MAG LOCK WILL RELEASE AND EXIT TRIM WILL LOCK. (INTERFACE REQUIRED WITH ACCESS CONTROL/SECURITY SYSTEM FOR IMMEDIATE RELEASE OF WALL MAGNETS IN THE EVENT OF LOCKDOWN. )

**HARDWARE GROUP NO. 39.1**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

<u>2</u>	<u>EA</u>	<u>HINGE</u>	<u>5BB1HW 4.5 X 4.5 NRP</u>	<u>652</u>	<u>IVE</u>
<u>1</u>	<u>EA</u>	<u>ELECTRIC HINGE</u>	<u>5BB1HW 4.5 X 4.5 TW8</u>	↗ <u>652</u>	<u>IVE</u>
<u>1</u>	<u>EA</u>	<u>PANIC HARDWARE</u>	<u>98-L-E996-06-FSE 24 VDC</u>	<u>626</u>	<u>VON</u>
<u>1</u>	<u>EA</u>	<u>RIM CYLINDER</u>	<u>7015RA (981 KEYWAY)</u>	<u>626</u>	<u>ILC</u>
<u>1</u>	<u>EA</u>	<u>SURFACE CLOSER</u>	<u>4040XP RW/PA MC TBWMS</u>	<u>689</u>	<u>LCN</u>
<u>1</u>	<u>EA</u>	<u>KICK PLATE</u>	<u>8400 10" X 2" LDW B-CS</u>	<u>630</u>	<u>IVE</u>
<u>1</u>	<u>EA</u>	<u>WALL STOP</u>	<u>WS406/407CCV</u>	<u>630</u>	<u>IVE</u>
<u>3</u>	<u>EA</u>	<u>SILENCER</u>	<u>SR64</u>	<u>GRY</u>	<u>IVE</u>

**AUTO LOCK /UNLOCK THROUGH ACCESS CONTROL/SECURITY SYSTEM.**

**HARDWARE GROUP NO. 40**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

6	EA	HINGE	5BB1HW 4.5 X 4.5 NRP	652	IVE
<u>1</u>	<u>EA</u>	<u>POWER TRANSFER</u>	<u>EPT10</u>	↗ <u>689</u>	<u>VON</u>
2	EA	PANIC HARDWARE	<u>9849-L-E996-06-FSE-LBL 24 VDC</u> <del>(9849-L-NL-06)</del>	626	VON
2	EA	RIM CYLINDER	7015RA (981 KEYWAY)	626	ILC
1	EA	MORTISE CYLINDER	7185RA (981 KEYWAY) (KEYSWITCH)	626	ILC
2	EA	SURFACE CLOSER	4040XP EDA MC TBWMS	689	LCN
2	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
2	EA	400LB WALL MAG	2510	630	ABH
2	EA	SILENCER	SR64	GRY	IVE
1	EA	KEY SWITCH	653-04	626	SCE

**AUTO LOCK /UNLOCK THROUGH ACCESS CONTROL/SECURITY SYSTEM. DOOR MAY BE HELD OPEN WITH MAG LOCK .UPON LOCKDOWN INITIATION, MAG LOCK WILL RELEASE AND EXIT TRIM WILL LOCK. KEYSWITCH LOCALLY CONTROL WALL MAGNETS.** (INTERFACE REQUIRED WITH ACCESS CONTROL/SECURITY SYSTEM FOR IMMEDIATE RELEASE OF WALL MAGNETS IN THE EVENT OF LOCKDOWN. KEYSWITCH LOCALLY CONTROL WALL MAGNETS.)

**HARDWARE GROUP NO. 41****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	TIME OUT LOCK	ND45 RHO XN12-317	626	SCH
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	DOOR SWEEP	39A	A	ZER

**HARDWARE GROUP NO. 42****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

2	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	ELECTRIC HINGE	5BB1 4.5 X 4.5 CON TW8	652	IVE
1	EA	FSE ELEC LOCK	<u>195-FEU</u> <del>(195-FEU (981 KEYWAY))</del>	626	MKS
1	EA	SURFACE CLOSER	4040XP RW/PA MC TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE
1	EA	CREDENTIAL READER	BY DIV 28		B/O
		POWER SUPPLY	& RELAYS BY DIV 28		B/O

CARD IN. USER PRESENTS CREDENTIAL, ELECTRIFIED LOCKSET LEVER RELEASES, USER DEPRESSES LEVER TO RETRACT LATCH AND OPEN DOOR.

**HARDWARE GROUP NO. A1**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

1	EA	CONT. HINGE	112HD EPT	628	IVE
1	EA	POWER TRANSFER	EPT10	✓ 689	VON
1	EA	ELEC PANIC HARDWARE	LX-LC-QEL-XP98-NL 24 VDC	✓ 626	VON
1	EA	RIM CYLINDER	7015RA (981 KEYWAY)	626	ILC
1	EA	OH STOP	100S ADJ	630	GLY
1	EA	4642 CS FC WMS 120 VAC	4642 CS WMS 120 VAC	✓ 695	LCN
1	EA	ACTUATOR, WALL MOUNT	8310-853 (EXT WALL)	✓ 630	LCN
1	EA	DUAL BUTTON ACTUATOR	8310-855 (VESTIBULE WALL)	✓ 630	LCN
1	SET	PERIMETER SEALS	BY DOOR MFG/SUPPLIER	AL	B/O
1	EA	THRESHOLD	BY DOOR MFG/SUPPLIER	AL	
1	EA	CREDENTIAL READER	BY DIV 28		B/O
1	EA	DOOR CONTACT	679-05HM	BLK	SCE
<del>-(+)</del>	<del>-(EA)</del>	<del><u>POWER SUPPLY</u></del> <del>-(POWER SUPPLY)</del>	<del><u>&amp; RELAYS BY DIV 28</u></del> <del>-(PS902-900-2RS-120/240 VAC)</del>		<del><u>B/O</u></del> <del>-(VON)</del>

AUTO LOCK/UNLOCK THROUGH ACCESS CONTROL SYSTEM FOR PUSH/PULL OPERATION DURING NORMAL BUSINESS HOURS. EXTERIOR ACTUATOR TURNED OFF/ON THROUGH ACCESS CONTROL/SECURITY SYSTEM. EXTERIOR OPERATOR FUNCTIONS INDEPENDENT FROM INTERIOR OPERATOR. CARD IN AFTER HOURS. USER PRESENTS CREDENTIAL, EXIT DEVICE RETRACTS AND EXTERIOR ACTUATOR TURNS ON. USER EITHER PUSHES ACTUATOR TO ENGAGE AUTO OPERATOR OR PULLS DOOR TO OPEN. DOOR POSITION IS MONITORED THROUGH ACCESS CONTROL/SECURITY SYSTEM.

**HARDWARE GROUP NO. A2****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

1	EA	CONT. HINGE	112HD EPT	628	IVE
1	EA	POWER TRANSFER	EPT10	✈ 689	VON
1	EA	ELEC PANIC HARDWARE	LX-LC-QEL-XP98-NL 24 VDC	✈ 626	VON
1	EA	RIM CYLINDER	7015RA (981 KEYWAY)	626	ILC
1	EA	OH STOP	100S ADJ	630	GLY
1	EA	4642 CS FC WMS 120 VAC	4642 CS WMS 120 VAC	✈ 695	LCN
1	EA	HARDWIRED MULLION ACTUATOR	8310-818 (PUSH SIDE MULLION)	✈ 630	LCN
1	SET	PERIMETER SEALS	BY DOOR MFG/SUPPLIER	AL	B/O
1	EA	CREDENTIAL READER	BY DIV 28		B/O
1	EA	DOOR CONTACT	679-05HM	BLK	SCE
<del>(+)</del>	<del>(EA)</del>	<del><u>POWER SUPPLY</u></del> (POWER SUPPLY)	<del><u>&amp; RELAYS BY DIV 28</u></del> (PS902-900-2RS 120/240 VAC)		<del><u>B/O</u></del> (VON)

AUTO LOCK/UNLOCK THROUGH ACCESS CONTROL SYSTEM FOR PUSH/PULL OPERATION DURING NORMAL BUSINESS HOURS. VESTIBULE ACTUATOR TURNED OFF/ON THROUGH ACCESS CONTROL/SECURITY SYSTEM. EXTERIOR OPERATOR FUNCTIONS INDEPENDENT FROM INTERIOR OPERATOR. CARD IN AFTER HOURS. USER PRESENTS CREDENTIAL, EXIT DEVICE RETRACTS AND VESTIBULE ACTUATOR TURNS ON. USER EITHER PUSHES ACTUATOR TO ENGAGE AUTO OPERATOR OR PULLS DOOR TO OPEN. DOOR POSITION IS MONITORED THROUGH ACCESS CONTROL/SECURITY SYSTEM.

**HARDWARE GROUP NO. A3****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

2	EA	CONT. HINGE	112HD EPT	628	IVE
2	EA	POWER TRANSFER	EPT10	✈ 689	VON
1	EA	REMOVABLE MULLION	4954 STAB	689	VON
2	EA	ELEC PANIC HARDWARE	QEL-XP98-DT	✈ 626	VON
2	EA	OH STOP	100S ADJ	630	GLY
2	EA	SURFACE CLOSER	4040XP EDAW/62G MC	689	LCN
2	EA	PA MOUNTING PLATE	4040XP-18PA	689	LCN
2	EA	5TH SCREW SUPPORT	4040XP-30	689	LCN
1	SET	PERIMETER SEALS	BY DOOR MFG/SUPPLIER	AL	B/O
1	EA	THRESHOLD	BY DOOR MFG/SUPPLIER	AL	
2	EA	DOOR CONTACT	679-05HM	BLK	SCE
<del>(+)</del>	<del>(EA)</del>	<del><u>POWER SUPPLY</u></del> (POWER SUPPLY)	<del><u>&amp; RELAYS BY DIV 28</u></del> (PS902-900-2RS 120/240 VAC)		<del><u>B/O</u></del> (VON)

AUTO LOCK/UNLOCK FOR PUSH/PULL OPERATION. DOOR POSITION IS MONITORED THROUGH ACCESS CONTROL/SECURITY SYSTEM.

**HARDWARE GROUP NO. A4**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

1	EA	CONT. HINGE	112HD EPT	628	IVE
1	EA	POWER TRANSFER	EPT10	✓ 689	VON
1	EA	ELEC PANIC HARDWARE	QEL-XP98-DT	✓ 626	VON
1	EA	OH STOP	100S ADJ	630	GLY
1	EA	SURFACE CLOSER	4040XP EDAW/62G MC	689	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA	689	LCN
1	EA	5TH SCREW SUPPORT	4040XP-30	689	LCN
1	SET	PERIMETER SEALS	BY DOOR MFG/SUPPLIER	AL	B/O
1	EA	THRESHOLD	BY DOOR MFG/SUPPLIER	AL	
1	EA	DOOR CONTACT	679-05HM	BLK	SCE
<del>(+)</del>	<del>(EA)</del>	<del><u>POWER SUPPLY</u></del> (POWER SUPPLY)	<del><u>&amp; RELAYS BY DIV 28</u></del> (PS902-900- 2RS-120/240 VAC)		<del><u>B/O</u></del> (VON)

AUTO LOCK/UNLOCK FOR PUSH/PULL OPERATION. DOOR POSITION IS MONITORED THROUGH ACCESS CONTROL/SECURITY SYSTEM.

**HARDWARE GROUP NO. A5**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

2	EA	CONT. HINGE	112HD EPT	628	IVE
2	EA	POWER TRANSFER	EPT10	✓ 689	VON
1	EA	REMOVABLE MULLION	4954 STAB	689	VON
2	EA	ELEC PANIC HARDWARE	QEL-XP98-DT	✓ 626	VON
2	EA	OH STOP	100S ADJ	630	GLY
2	EA	SURFACE CLOSER	4040XP EDAW/62G MC	689	LCN
2	EA	PA MOUNTING PLATE	4040XP-18PA	689	LCN
2	EA	5TH SCREW SUPPORT	4040XP-30	689	LCN
1	SET	PERIMETER SEALS	BY DOOR MFG/SUPPLIER	AL	B/O
<del>(+)</del>	<del>(EA)</del>	<del><u>POWER SUPPLY</u></del> (POWER SUPPLY)	<del><u>&amp; RELAYS BY DIV 28</u></del> (PS902-900- 2RS-120/240 VAC)		<del><u>B/O</u></del> (VON)

AUTO LOCK/UNLOCK FOR PUSH/PULL OPERATION.



**HARDWARE GROUP NO. A6****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

1	EA	CONT. HINGE	112HD EPT	628	IVE
1	EA	POWER TRANSFER	EPT10	⚡ 689	VON
1	EA	ELEC PANIC HARDWARE	QEL-XP98-DT	⚡ 626	VON
1	EA	OH STOP	100S ADJ	630	GLY
1	EA	SURFACE CLOSER	4040XP EDAW/62G MC	689	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA	689	LCN
1	EA	5TH SCREW SUPPORT	4040XP-30	689	LCN
1	SET	PERIMETER SEALS	BY DOOR MFG/SUPPLIER	AL	B/O
1	EA	DOOR CONTACT	679-05HM	BLK	SCE
<del>-(+)</del>	<del>-(EA)</del>	<del><u>POWER SUPPLY</u></del> (POWER SUPPLY)	<del><u>&amp; RELAYS BY DIV 28</u></del> (PS902-900-2RS 120/240 VAC)		<del><u>B/O</u></del> (VON)

AUTO LOCK/UNLOCK FOR PUSH/PULL OPERATION. DOOR POSITION IS MONITORED THROUGH ACCESS CONTROL/SECURITY SYSTEM.

**HARDWARE GROUP NO. A7****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

1	EA	CONT. HINGE	112HD EPT	628	IVE
1	EA	POWER TRANSFER	EPT10	⚡ 689	VON
1	EA	ELEC PANIC HARDWARE	QEL-XP98-NL	⚡ 626	VON
1	EA	RIM CYLINDER	7015RA (981 KEYWAY)	626	ILC
1	EA	OH STOP	100S ADJ	630	GLY
1	EA	SURFACE CLOSER	4040XP EDAW/62G MC	689	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA	689	LCN
1	EA	5TH SCREW SUPPORT	4040XP-30	689	LCN
1	SET	PERIMETER SEALS	BY DOOR MFG/SUPPLIER	AL	B/O
<del>-(+)</del>	<del>-(EA)</del>	<del><u>POWER SUPPLY</u></del> (POWER SUPPLY)	<del><u>&amp; RELAYS BY DIV 28</u></del> (PS902-900-2RS 120/240 VAC)		<del><u>B/O</u></del> (VON)

EXIT DEVICE LATCHES ARE RETRACTED IN ACCORDANCE WITH TIME/CALENDAR FEATURE OF ACCESS CONTROL/SECURITY SYSTEM FOR PUSH/PULL OPERATION. INTERFACE REQUIRED WITH ACCESS CONTROL/SECURITY SYSTEM FOR IMMEDIATE RELEASE OF LATCHES IN THE EVENT OF LOCKDOWN.

**HARDWARE GROUP NO. A8**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

2	EA	CONT. HINGE	112HD EPT	628	IVE
2	EA	POWER TRANSFER	EPT10	✓ 689	VON
1	EA	REMOVABLE MULLION	4954 STAB	689	VON
1	EA	ELEC PANIC HARDWARE	QEL-XP98-DT	✓ 626	VON
1	EA	ELEC PANIC HARDWARE	QEL-XP98-NL	✓ 626	VON
1	EA	RIM CYLINDER	7015RA (981 KEYWAY)	626	ILC
2	EA	OH STOP	100S ADJ	630	GLY
2	EA	SURFACE CLOSER	4040XP EDAW/62G MC	689	LCN
2	EA	PA MOUNTING PLATE	4040XP-18PA	689	LCN
2	EA	5TH SCREW SUPPORT	4040XP-30	689	LCN
1	SET	PERIMETER SEALS	BY DOOR MFG/SUPPLIER	AL	B/O
1	EA	THRESHOLD	BY DOOR MFG/SUPPLIER	AL	
1	EA	CREDENTIAL READER	BY DIV 28		B/O
2	EA	DOOR CONTACT	679-05HM	BLK	SCE
<del>-(+)</del>	<del>-(EA)</del>	<del>POWER SUPPLY</del> (POWER SUPPLY)	<del>&amp; RELAYS BY DIV 28</del> (PS902-900-2RS 120/240 VAC)		<del>B/O</del> (VON)

AUTOLOCK/UNLOCK FOR PUSH/PULL OPERATION. AFTER HOURS CARD IN. USER PRESENTS CREDENTIAL, LATCH RETRACTS ON EXIT DEVICE, USER OPENS DOOR TO ENTER. DOOR POSITION IS MONITORED THROUGH ACCESS CONTROL/SECURITY SYSTEM.

**HARDWARE GROUP NO. A9****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

1	EA	CONT. HINGE	<u>112HD EPT</u> -(112HD)	628	IVE
<u>1</u>	<u>EA</u>	<u>POWER TRANSFER</u>	<u>EPT10</u>	⚡ <u>689</u>	<u>VON</u>
1	EA	PANIC HARDWARE	<u>98-L-E996-06-FSE 24 VDC</u> -(LD-98- NL)	626	VON
1	EA	RIM CYLINDER	7015RA (981 KEYWAY)	626	ILC
1	EA	MORTISE CYLINDER	7185RA (981 KEYWAY) (KEYSWITCH)	626	ILC
1	EA	SURFACE CLOSER	4040XP EDAW/62G MC TBWMS	689	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA	689	LCN
1	EA	5TH SCREW SUPPORT	4040XP-30	689	LCN
1	EA	400LB WALL MAG	2510	630	ABH
1	SET	PERIMETER SEALS	BY DOOR MFG/SUPPLIER	AL	B/O
1	EA	KEY SWITCH	653-04	626	SCE
		POWER SUPPLY	& RELAYS BY DIV 28		B/O

AUTO LOCK /UNLOCK THROUGH ACCESS CONTROL/SECURITY SYSTEM. DOOR MAY BE HELD OPEN WITH MAG LOCK. UPON LOCKDOWN INITIATION, MAG LOCK WILL RELEASE AND EXIT TRIM WILL LOCK. (INTERFACE REQUIRED WITH ACCESS CONTROL/SECURITY SYSTEM FOR IMMEDIATE RELEASE OF WALL MAGNETS IN THE EVENT OF LOCKDOWN. KEYSWITCH LOCALLY CONTROLS WALL MAGNETS.)

**HARDWARE GROUP NO. A10****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

1	EA	CONT. HINGE	<u>112HD EPT</u> -(112HD)	628	IVE
<u>1</u>	<u>EA</u>	<u>POWER TRANSFER</u>	<u>EPT10</u>	⚡ <u>689</u>	<u>VON</u>
1	EA	PANIC HARDWARE	<u>98-L-E996-06-FSE 24 VDC</u> -(LD-98- DT)	626	VON
1	EA	SURFACE CLOSER	4040XP EDAW/62G MC TBWMS	689	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA	689	LCN
1	EA	5TH SCREW SUPPORT	4040XP-30	689	LCN
1	EA	400LB WALL MAG	2510	630	ABH
1	SET	PERIMETER SEALS	BY DOOR MFG/SUPPLIER	AL	B/O
		POWER SUPPLY	& RELAYS BY DIV 28		B/O
		REFER TO COMPANION DOOR	FOR KEYSWITCH AND POWER SUPPLY	⚡	

AUTO LOCK /UNLOCK THROUGH ACCESS CONTROL/SECURITY SYSTEM. DOOR MAY BE HELD OPEN WITH MAG LOCK. UPON LOCKDOWN INITIATION, MAG LOCK WILL RELEASE AND LOCKSET WILL LOCK. (INTERFACE REQUIRED WITH ACCESS CONTROL/SECURITY SYSTEM FOR IMMEDIATE RELEASE OF WALL MAGNETS IN THE EVENT OF LOCKDOWN. KEYSWITCH LOCALLY CONTROLS WALL MAGNETS.)

**HARDWARE GROUP NO. A11**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

1	EA	CONT. HINGE	112HD EPT	628	IVE
1	EA	POWER TRANSFER	EPT10	✓ 689	VON
1	EA	ELEC PANIC HARDWARE	QEL-98-NL 24 VDC	✓ 626	VON
1	EA	RIM CYLINDER	7015RA (981 KEYWAY)	626	ILC
1	EA	SURFACE CLOSER	4040XP EDAW/62G MC TBWMS	689	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA	689	LCN
1	EA	5TH SCREW SUPPORT	4040XP-30	689	LCN
1	EA	MAG HOLDER	2100	✓ 626	ABH
1	SET	PERIMETER SEALS	BY DOOR MFG/SUPPLIER	AL	B/O
<del>(+)</del>	<del>(EA)</del>	<del>POWER SUPPLY (POWER</del>	<del>&amp; RELAYS BY DIV 28 (PS902-900-</del>		<del>B/O</del>
		<del>SUPPLY)</del>	<del>2RS-120/240 VAC)</del>		<del>(VON)</del>

EXIT DEVICE LATCHES ARE RETRACTED IN ACCORDANCE WITH TIME/CALENDAR FEATURE OF ACCESS CONTROL/SECURITY SYSTEM FOR PUSH/PULL OPERATION. INTERFACE REQUIRED WITH ACCESS CONTROL/SECURITY SYSTEM FOR IMMEDIATE RELEASE OF WALL MAGNETS IN THE EVENT OF LOCKDOWN.

**HARDWARE GROUP NO. A12**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

1	EA	SLIDING DOOR	BI-PARTING SLIDE SYSTEM		ADS
			SECTION 08 4313		
1	EA	MORTISE CYLINDER	7185RA (981 KEYWAY)	626	ILC
		REMAINING HARDWARE	BY DOOR MFG/SUPPLIER	626	

**HARDWARE GROUP NO. B1**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

2	EA	CONT. HINGE	112HD	628	IVE
2	EA	DUMMY PUSH BAR	350-DT-990	626	VON
2	EA	OH STOP	100S ADJ	630	GLY
2	EA	SURFACE CLOSER	4040XP EDAW/62G MC	689	LCN
2	EA	PA MOUNTING PLATE	4040XP-18PA	689	LCN
2	EA	5TH SCREW SUPPORT	4040XP-30	689	LCN
1	SET	PERIMETER SEALS	BY DOOR MFG/SUPPLIER	AL	B/O

**HARDWARE GROUP NO. B2****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

1	EA	CONT. HINGE	112HD	628	IVE
1	EA	DUMMY PUSH BAR	350-DT-990	626	VON
1	EA	SURFACE CLOSER	4040XP EDAW/62G MC	689	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA	689	LCN
1	EA	5TH SCREW SUPPORT	4040XP-30	689	LCN
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	SET	PERIMETER SEALS	BY DOOR MFG/SUPPLIER	AL	B/O

**HARDWARE GROUP NO. B3****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

1	EA	CONT. HINGE	112HD	628	IVE
1	EA	DUMMY PUSH BAR	350-DT-990	626	VON
1	EA	OH STOP	100S ADJ	630	GLY
1	EA	SURFACE CLOSER	4040XP EDAW/62G MC	689	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA	689	LCN
1	EA	5TH SCREW SUPPORT	4040XP-30	689	LCN
1	SET	PERIMETER SEALS	BY DOOR MFG/SUPPLIER	AL	B/O

**HARDWARE GROUP NO. C1**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

1	EA	CONT. HINGE	112HD	628	IVE
1	EA	STOREROOM LOCK	195 F	626	MKS
1	EA	PERMANENT CORE	15395 RA X 1903 SL9 (981 KEYWAY)	626	ILC
1	EA	ELECTRIC STRIKE	6211AL FSE 12/16/24/28 VAC/VDC	✓ 630	VON
1	EA	SURF. AUTO OPERATOR	4631 CS WMS 120 VAC	✓ 689	LCN
1	EA	HARDWIRED MULLION ACTUATOR	8310-818 (PUSH SIDE MULLION)	✓ 630	LCN
1	EA	ACTUATOR, WALL MOUNT	8310-853 (VESTIBULE WALL)	✓ 630	LCN
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	SET	PERIMETER SEALS	BY DOOR MFG/SUPPLIER	AL	B/O
1	EA	CREDENTIAL READER	BY DIV 28		B/O
		POWER SUPPLY	& RELAYS BY DIV 28		B/O
1	EA	REMOTE SWITCH	BY DIVISION 26	✓	

AUTO LOCK/UNLOCK THROUGH ACCESS CONTROL /SECURITY SYSTEM DURING NORMAL BUSINESS HOURS. EXTERIOR ACTUATOR TURNED OFF/ON THROUGH ACCESS CONTROL SYSTEM. DOOR POSITION IS MONITORED THROUGH ACCESS CONTROL SYSTEM. MOTION DETECTOR IS REQUEST TO EXIT. CARD IN WHEN LOCKED. USER PRESENTS CREDENTIAL, ELECTRIC STRIKE KEEPER RELEASES, AND VESTIBULE ACTUATOR TURNS ON. USER EITHER PUSHES ACTUATOR TO ENGAGE AUTO OPERATOR OR PUSHES DOOR TO OPEN. ELECTRIC STRIKE AND VESTIBULE ACTUATOR MAY BE REMOTELY RELEASED FROM ADMINISTRATION.

**HARDWARE GROUP NO. C2****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

1	EA	CONT. HINGE	<u>112HD EPT</u> -(112HD)	628	IVE
<u>1</u>	<u>EA</u>	<u>POWER TRANSFER</u>	<u>EPT10</u>	✎ <u>689</u>	<u>VON</u>
1	EA	<u>FSE ELEC LOCK</u> (COMMUNICATING LOCK)	<u>195-FEU</u> -(195 DC)	626	MKS
<u>1</u> -(2)	EA	PERMANENT CORE	15395 RA X 1903 SL9 (981 KEYWAY)	626	ILC
<del>1</del>	<del>EA</del>	<del>ELECTRIC STRIKE</del>	<del>6211AL FSE 12/16/24/28 VAC/VDC</del>	✎ <del>630</del>	<del>VON</del>
<u>1</u>	<u>EA</u>	<u>OH STOP</u>	<u>100S ADJ</u>	<u>630</u>	<u>GLY</u>
1	EA	SURFACE CLOSER	4040XP EDAW/62G MC	689	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA	689	LCN
1	EA	5TH SCREW SUPPORT	4040XP-30	689	LCN
<del>1</del>	<del>EA</del>	<del>WALL STOP</del>	<del>WS406/407CCV</del>	<del>630</del>	<del>IVE</del>
1	SET	PERIMETER SEALS	BY DOOR MFG/SUPPLIER	AL	B/O
		POWER SUPPLY	& RELAYS BY DIV 28		B/O
<del>1</del>	<del>EA</del>	<del>REMOTE SWITCH</del>	<del>BY DIVISION 26</del>	✎	

AUTO LOCK/UNLOCK IN ACCORDANCE WITH TIME AND CALENDAR FEATURE OF ACCESS CONTROL/SECURITY SYSTEM. MAY BE ON LOCKDOWN SCENARIO. (EITHER LEVER MAY BE LOCKED OR UNLOCKED INDEPENDENTLY. WHEN LOCKED, ELECTRIC STRIKE MAY BE RELEASED REMOTELY FROM LOCATIONS TBD.)

**HARDWARE GROUP NO. C3****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

A162A					
1	EA	CONT. HINGE	112HD	628	IVE
1	EA	CLASSROOM LOCK	195 S	626	MKS
1	EA	PERMANENT CORE	15395 RA X 1903 SL9 (981 KEYWAY)	626	ILC
1	EA	OH STOP	100S ADJ	630	GLY
1	SET	PERIMETER SEALS	BY DOOR MFG/SUPPLIER	AL	B/O

**HARDWARE GROUP NO. C4**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

1	EA	CONT. HINGE	112HD	628	IVE
1	EA	CLASSRM SEC LOCK	195 DB	626	MKS
2	EA	PERMANENT CORE	15395 RA X 1903 SL9 (981 KEYWAY)	626	ILC
1	EA	SURFACE CLOSER	4040XP HEDA/62G MC	689	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA	689	LCN
1	EA	5TH SCREW SUPPORT	4040XP-30	689	LCN
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	SET	PERIMETER SEALS	BY DOOR MFG/SUPPLIER	AL	B/O

DOOR MAY BE HELD OPEN USING HOLD OPEN FEATURE OF CLOSER ARM. CLASSROOM SECURITY LOCKSET MAY BE LOCKED FROM THE INTERIOR SIDE OF THE CLASSROOM FOR LOCKDOWN.

**HARDWARE GROUP NO. C5**

**DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

1	EA	CONT. HINGE	112HD	628	IVE
1	EA	CLASSROOM LOCK	195 S	626	MKS
1	EA	PERMANENT CORE	15395 RA X 1903 SL9 (981 KEYWAY)	626	ILC
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	SET	PERIMETER SEALS	BY DOOR MFG/SUPPLIER	AL	B/O



**HARDWARE GROUP NO. C6****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

1	EA	CONT. HINGE	112HD	628	IVE
1	EA	DBL CYL DEADBOLT	130 M	626	MKS
2	EA	PERMANENT CORE	15395 RA X 1903 SL9 (981 KEYWAY)	626	ILC
1	EA	OH STOP	100S ADJ	630	GLY
1	EA	SURFACE CLOSER	4040XP EDAW/62G MC TBWMS	689	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA	689	LCN
1	EA	5TH SCREW SUPPORT	4040XP-30	689	LCN
1	SET	PERIMETER SEALS	BY DOOR MFG/SUPPLIER	AL	B/O
1	EA	THRESHOLD	BY DOOR MFG/SUPPLIER	AL	
1	EA	DOOR CONTACT	679-05HM	BLK	SCE

DOOR POSITION IS MONITORED BY ACCESS CONTROL/SECURITY SYSTEM.

**HARDWARE GROUP NO. D1****DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)**

2	SET	PIVOT & CLOSER	BY DOOR MFG	626	B/O
2	EA	EXIT DEVICE	PA100F4RKBS	630	CRL
2	EA	RIM CYLINDER	7015RA (981 KEYWAY)	626	ILC
1	EA	MORTISE CYLINDER	7185RA (981 KEYWAY) (KEYSWITCH)	626	ILC
1	EA	ELECTRIC STRIKE	ESK2BS	630	CRL
2	EA	CUSTOM BOLLARD	BY OTHERS	630	TBD
2	EA	400LB WALL MAG	2510 (LOCATED IN BOLLARD)	630	ABH
1	SET	PERIMETER SEALS	BY DOOR MFG/SUPPLIER	AL	B/O
1	EA	KEY SWITCH	653-04 (LOCATED IN BOLLARD)	626	SCE
		REMAINING HARDWARE	BY DOOR MFG/SUPPLIER	626	

AUTO LOCK/UNLOCK OF ELECTRIC STRIKES IN ACCORDANCE WITH TIME /CALENDAR FEATURE OF ACCESS CONTROL/SECURITY SYSTEM. INTERFACE REQUIRED WITH ACCESS CONTROL/SECURITY SYSTEM FOR IMMEDIATE RELEASE OF MAGNETS IN A LOCKDOWN EVENT. KEYSWITCH LOCALLY CONTROLS WALL MAGNETS.

**SECTION 09 0561**

**COMMON WORK RESULTS FOR FLOORING PREPARATION**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. This section applies to all floors identified in the contract documents as to receive the following types of floor coverings:
  - 1. Resilient Athletic flooring.
  - 2. Broadloom carpet.
  - 3. Carpet tile.
  - 4. Entrance flooring.
  - 5. Ceramic tile.
- B. Preparation of new concrete floor slabs for installation of floor coverings.
- C. Testing of concrete floor slabs for moisture and pH.
- D. Do not include sales tax, refer to Section 00 0102 - Notice to Contractors.

**1.02 RELATED REQUIREMENTS**

- A. Section 01 2200 - Unit Prices: Bid pricing for remediation treatments if required.
- B. Section 01 4000 - Quality Requirements: Additional requirements relating to testing agencies and testing.
- C. Section 03 3000 - Cast-In-Place Concrete: Limitations on curing requirements for new concrete floor slabs.

**1.03 PRICE AND PAYMENT PROCEDURES**

- A. Unit Prices: See Section 01 2200 - Unit Prices.
- B. Unit Price for Alternate Flooring Adhesive: Do not include the cost of the alternate adhesive in the base bid; state on the bid form the unit price per square foot (square meter) for using the alternate adhesive, in the event high moisture adhesive is required.

**1.04 ADMINISTRATIVE REQUIREMENTS**

- A. Coordinate scheduling of cleaning and testing, so that preliminary cleaning has been completed for at least 24 hours prior to testing.

**1.05 SUBMITTALS**

- A. Floor Covering and Adhesive Manufacturers' Product Literature: For each specific combination of substrate, floor covering, and adhesive to be used; showing:
  - 1. Moisture and pH limits and test methods.
  - 2. Manufacturer's required bond/compatibility test procedure.
- B. Testing Agency's Report: Include:
  - 1. Description of areas tested; include floor plans and photographs if helpful.

2. Summary of conditions encountered.
3. Moisture and pH test reports.
4. Copies of specified test methods.
5. Recommendations for remediation of unsatisfactory surfaces.
6. Include certification of accuracy by authorized official of testing agency.
7. Submit report to Architect.
8. Submit report not more than two business days after conclusion of testing.

C. Adhesive Bond and Compatibility Test Report.

## **1.06 QUALITY ASSURANCE**

- A. Moisture and pH testing will be performed by an independent testing agency employed and paid by Granite School District.
  1. Contractor shall schedule testing.
- B. Contractor's Responsibility Relating to Independent Agency Testing:
  1. Provide access for and cooperate with testing agency.
  2. Confirm date of start of testing at least 10 days prior to actual start.
  3. Allow at least 4 business days on site for testing agency activities.
  4. Achieve and maintain specified ambient conditions.
  5. Notify Architect when specified ambient conditions have been achieved and when testing will start.

## **1.07 FIELD CONDITIONS**

- A. Maintain ambient temperature in spaces where concrete testing is being performed, and for at least 48 hours prior to testing, at not less than 65 degrees F (18 degrees C) or more than 85 degrees F (30 degrees C).
- B. Maintain relative humidity in spaces where concrete testing is being performed, and for at least 48 hours prior to testing, at not less than 40 percent and not more than 60 percent.

## **1.08 GUARANTEE**

- A. The Contractor shall guarantee his work for a period of 5 years from date of Substantial Completion. Guarantee shall be on form included in Section 01 7800.

## **PART 2 PRODUCTS**

### **2.01 MATERIALS**

- A. Patching Compound: Floor covering manufacturer's recommended product, suitable for conditions, and compatible with adhesive and floor covering. In the absence of any recommendation from flooring manufacturer, provide a product with the following characteristics:
  1. Cementitious moisture-, mildew-, and alkali-resistant compound, compatible with floor, floor covering, and floor covering adhesive, and capable of being feathered to nothing at edges.
  2. Latex or polyvinyl acetate additions are permitted; gypsum content is prohibited.
  3. Compressive Strength: 3000 psi, minimum, after 28 days, when tested in accordance with ASTM C109/C109M or ASTM C472, whichever is appropriate.
- B. Alternate Flooring Adhesive: Floor covering manufacturer's recommended product, suitable for concrete slab relative humidity moisture up to 95 percent; low-VOC. In the absence of any

recommendation from flooring manufacturer, provide a product recommended by adhesive manufacturer as suitable for substrate and floor covering.

### **PART 3 EXECUTION**

#### **3.01 CONCRETE SLAB PREPARATION**

- A. Follow recommendations of testing agency.
- B. Perform following operations in the order indicated:
  - 1. Preliminary cleaning.
  - 2. Moisture vapor emission tests; 3 tests in the first 1000 square feet (100 square meters) and one test in each additional 1000 square feet (100 square meters), unless otherwise indicated or required by flooring manufacturer.
  - 3. Internal relative humidity tests; in same locations as moisture vapor emission tests, unless otherwise indicated.
  - 4. pH tests; in same locations as moisture vapor emission tests, unless otherwise indicated.
  - 5. Specified remediation, if required.
  - 6. Patching, smoothing, and leveling, as required.
  - 7. Other preparation specified.
  - 8. Adhesive bond and compatibility test.
  - 9. Protection.
- C. Remediations:
  - 1. Active Water Leaks or Continuing Moisture Migration to Surface of Slab: Correct this condition before doing any other remediation; re-test after correction.
  - 2. Excessive Moisture Emission or Relative Humidity: Contact architect in writing and use alternate flooring adhesive.
  - 3. Excessive pH: Contact architect in writing and use adhesive that is resistant to the level present and acceptable to the flooring manufacturer; otherwise, apply a skim coat of specified patching compound over entire suspect floor area.

#### **3.02 PRELIMINARY CLEANING**

- A. Clean floors of dust, solvents, paint, wax, oil, grease, asphalt, residual adhesive, adhesive removers, film-forming curing compounds, sealing compounds, alkaline salts, excessive laitance, mold, mildew, and other materials that might prevent adhesive bond.
- B. Do not use solvents or other chemicals for cleaning.

#### **3.03 MOISTURE VAPOR EMISSION TESTING**

- A. Where the floor covering manufacturer's requirements conflict with either the referenced test method or this specification, comply with the manufacturer's requirements.
- B. Where this specification conflicts with the referenced test method, comply with the requirements of this section.
- C. Test in accordance with ASTM F1869 and as follows.
- D. Plastic sheet test and mat bond test may not be substituted for the specified ASTM test method, as those methods do not quantify the moisture content sufficiently.

- E. In the event that test values exceed floor covering manufacturer's limits, perform remediation as indicated. In the absence of manufacturer limits, perform remediation if test values exceed 3 pounds per 1000 square feet (1.4 kg per 93 square meters) per 24 hours.
- F. Report: Report the information required by the test method.

#### **3.04 PH TESTING**

- A. Where the floor covering manufacturer's requirements conflict with either the referenced test method or this specification, comply with the manufacturer's requirements.
- B. Note: This procedure is the equivalent of that described in ASTM F710, repeated here for the Contractor's convenience.
- C. Use a wide range pH paper, its associated chart, and distilled or deionized water.
- D. Place several drops of water on a clean surface of concrete, forming a puddle approximately 1 inch (25 mm) in diameter. Allow the puddle to set for approximately 60 seconds, then dip the pH paper into the water, remove it, and compare immediately to chart to determine pH reading.
- E. In the event that test values exceed floor covering manufacturer's limits, perform remediation as indicated. In the absence of manufacturer limits, perform remediation if any test value is over 10.

#### **3.05 PREPARATION**

- A. See individual floor covering section(s) for additional requirements.
- B. Comply with requirements and recommendations of floor covering manufacturer.
- C. Fill and smooth surface cracks, grooves, depressions, control joints and other non-moving joints, and other irregularities with patching compound.
- D. Do not fill expansion joints, isolation joints, or other moving joints.

#### **3.06 ADHESIVE BOND AND COMPATIBILITY TESTING**

- A. Comply with requirements and recommendations of floor covering manufacturer.

#### **3.07 APPLICATION OF REMEDIAL FLOOR COATING**

- A. Comply with requirements and recommendations of coating manufacturer.

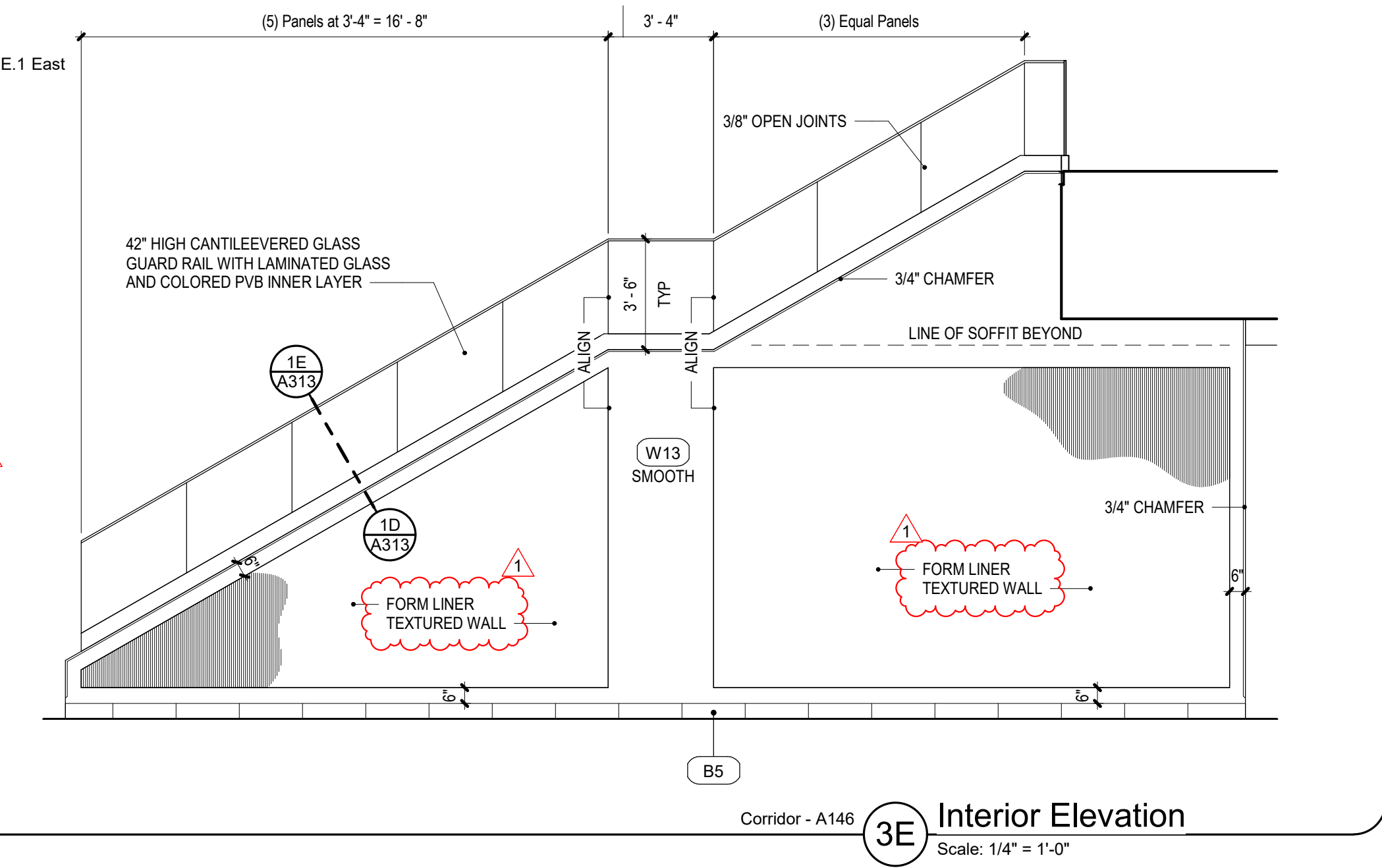
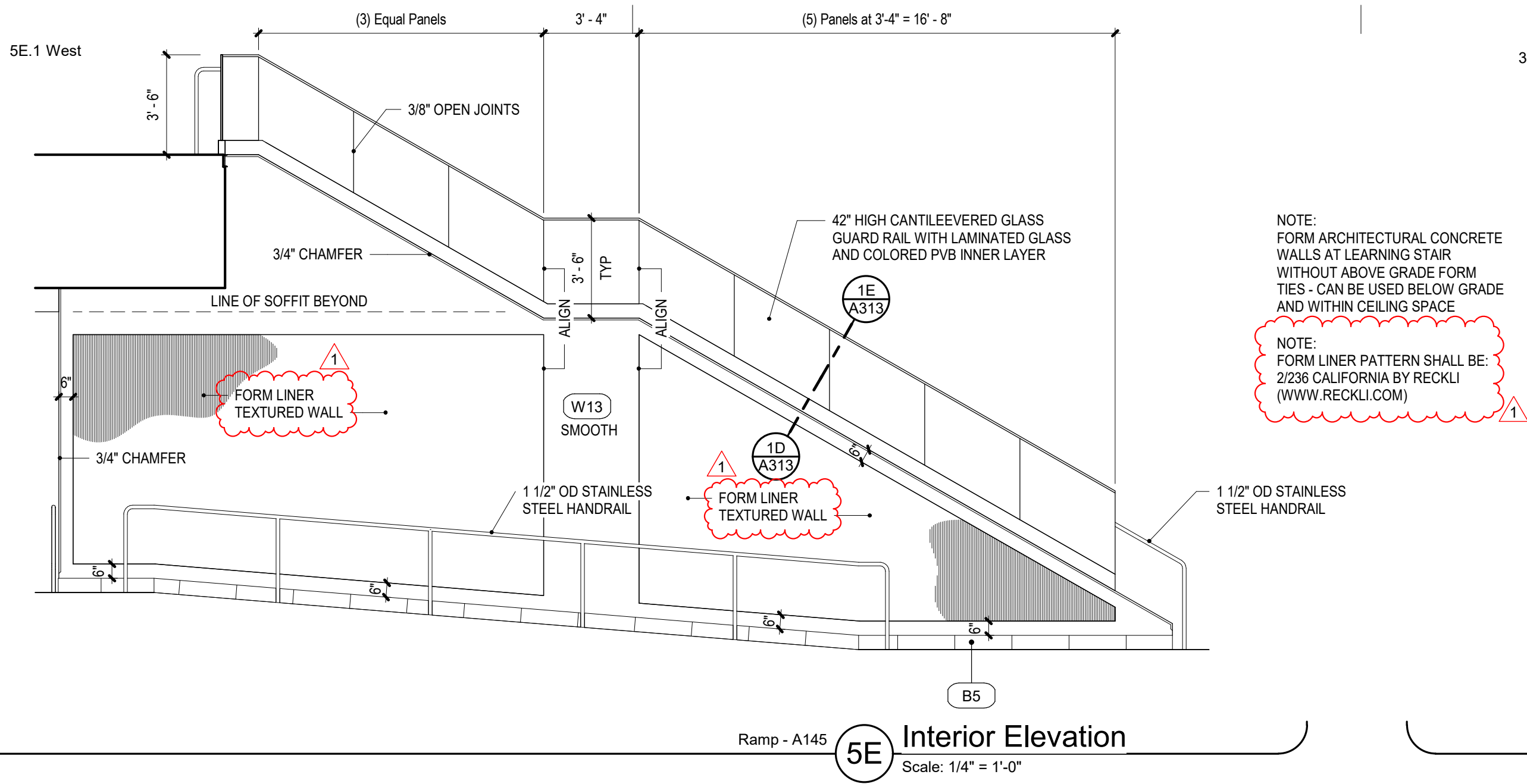
#### **3.08 PROTECTION**

- A. Cover prepared floors with building paper or other durable covering.

**END OF SECTION**



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Interior Elevation Keyed Notes	
Mark	Description
1	Casework - finished end
2	Casework - filler
3	Opening - refer to door and/or window schedule
4	Structural steel - painted
5	4'-0" x 4'-0" white board
6	Stainless steel dish hood - refer to kitchen drawings
7	Walk-in freezer / cooler - refer to kitchen drawings
8	12" x 15" metal locker with filler panels
9	Display monitor - refer to electrical drawings
10	Metal toilet partitions
11	Plumbing fixture - refer to plumbing drawings
12	1 1/2" thick p-lam faced panel product support
13	Ice maker - refer to food service drawings
14	Pre-cast concrete bench - refer to detail 6B / A502
16	Wall shelving, refer to detail 5A / A502
17	Scoreboard
18	Ductwork - painted
19	Projector mount - refer to detail 3C / A501

Note: Some interior elevations are used for multiple rooms. Due to multiple use, some of the elevations referred to on the annotation plan are similar and/or reversed from the direction shown. The general intent of the elevation shall in all cases be followed and the architect consulted should questions arise.

Base Finishes		
Mark	Description	Notes
B1	Carpet base	-
B2	Rubber base	-
B3	6" x 6" tile base - covered (restrooms / custodial)	a
B4	6" x 24" cut tile base - (restrooms)	b
B5	6" x 24" cut tile base (corridors)	c
B6	5" x 6" quarry tile base (kitchen area)	a
B7	None	-

Notes:

- a Install sealant between base tile and floor tile - see detail 4D / A502
- b Metal core trim between wall tile and floor tile with metal trim at top of base where no tile above occurs - see detail 6D / A502
- c Metal trim at top of base where no tile above - see detail 5D / A502

Wall Finishes		
Mark	Description	Notes
W1	Gypsum board - painted	a,b,c
W2	CMU - smooth - painted	a,b,c
W3	CMU - colored / honed (field color) - sealed	f
W4	CMU - colored / honed (accent color) - sealed	f
W5	Visual display panels - type 1 (magnetic/writable) - white	f
W6	Visual display panels - type 2 (magnetic/writable) - accent color	f
W7	Visual display panels - type 3 (magnetic)	-
W8	4" x 12" tile - (restrooms)	d,g
W9	12" x 24" tile - (restrooms/drinking fountains)	d,g
W10	6" x 6" tile - (custodial)	d,g
W11	8" x 24" tile - (kitchen)	d,g
W12	12" x 24" tile - (serving)	d,g
W13	Architectural Concrete (integral color) - form finish - sealed	h
W14	Stainless steel - (sheet) - refer to food service drawings	-
W15	Cementitious wood fiber panels - painted	e

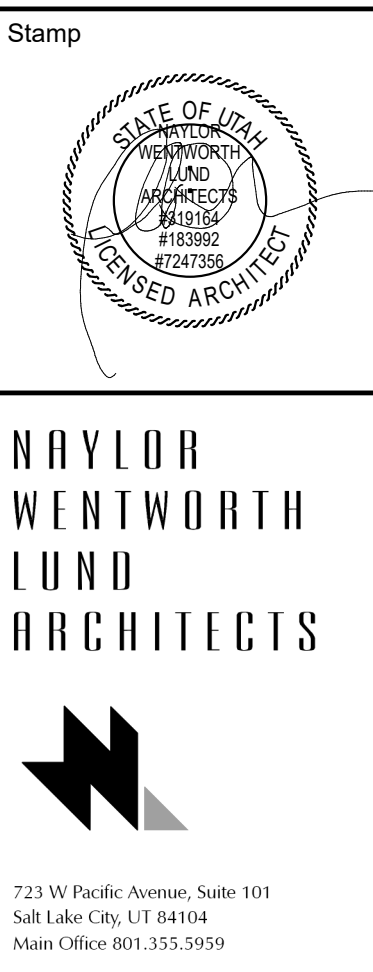
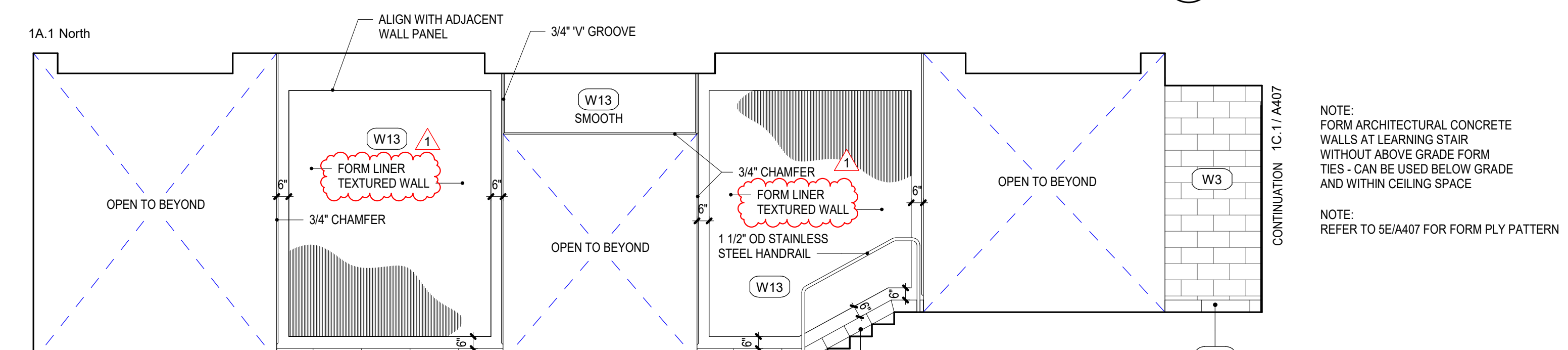
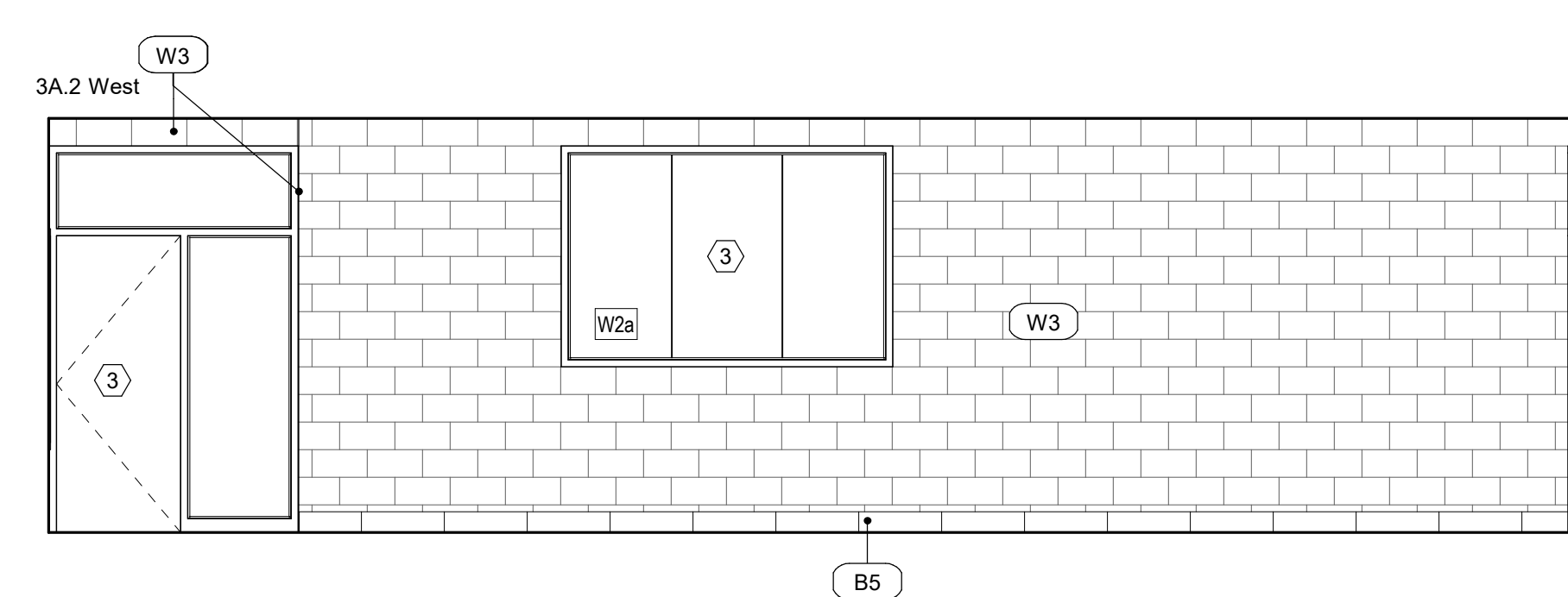
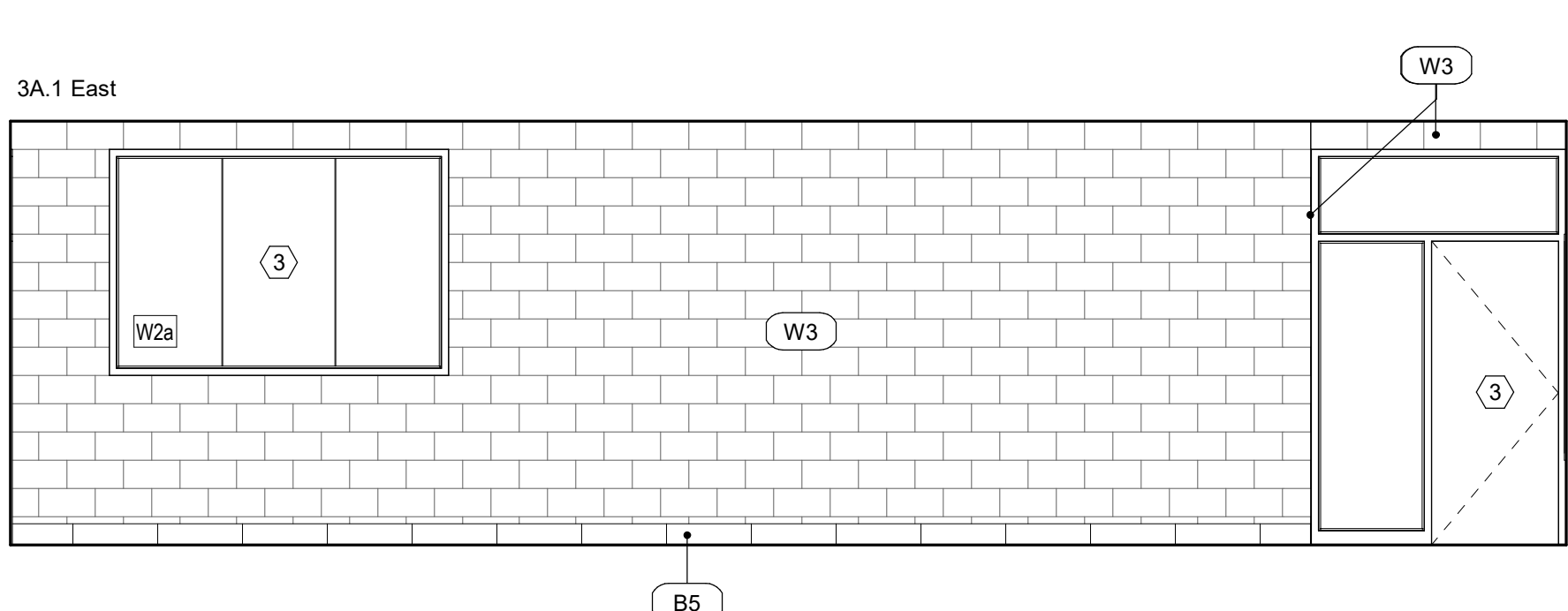
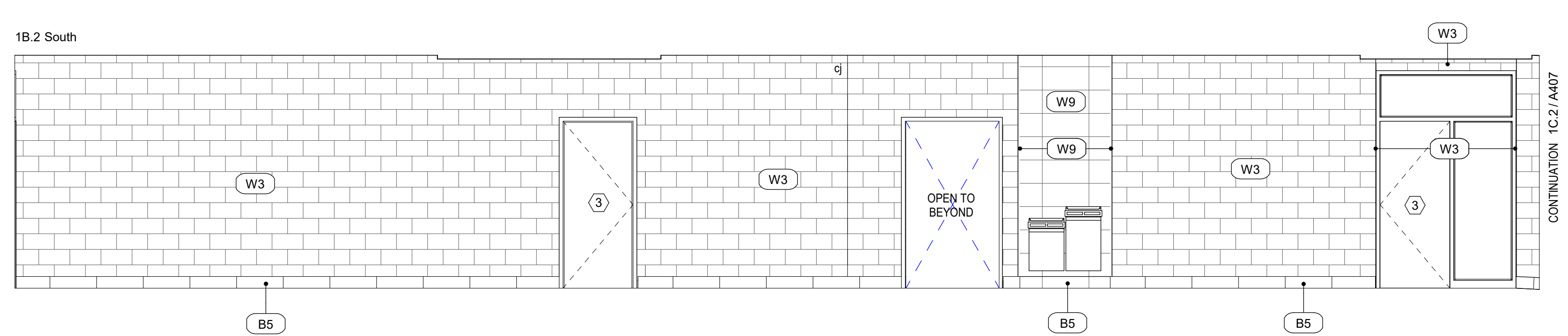
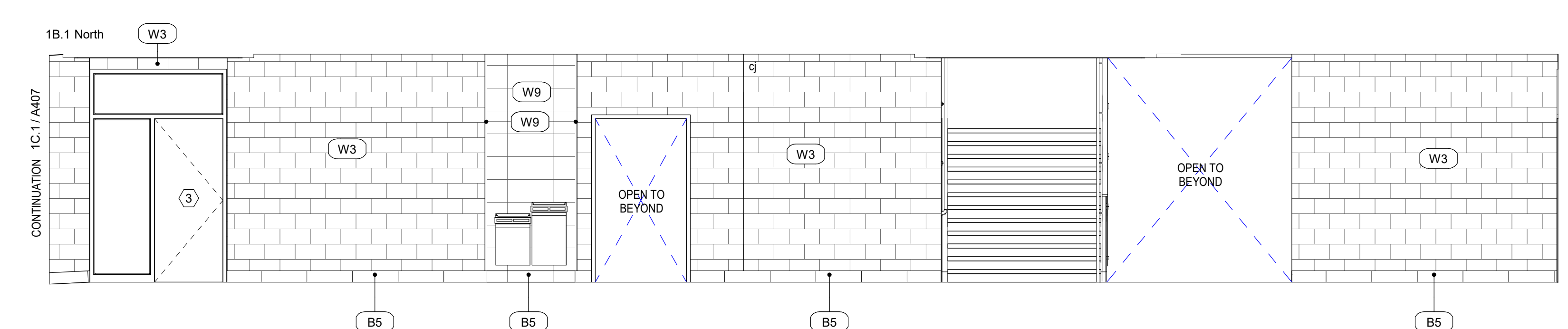
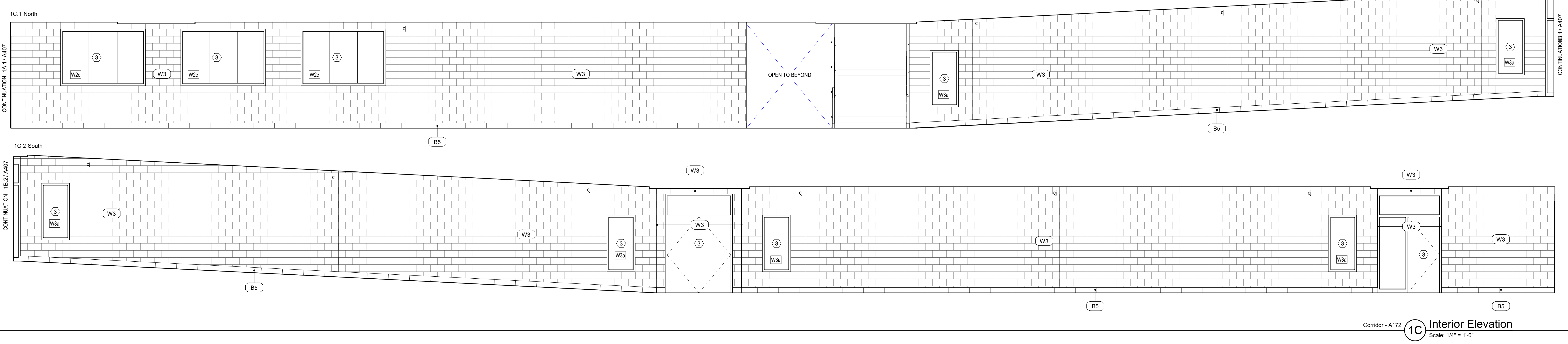
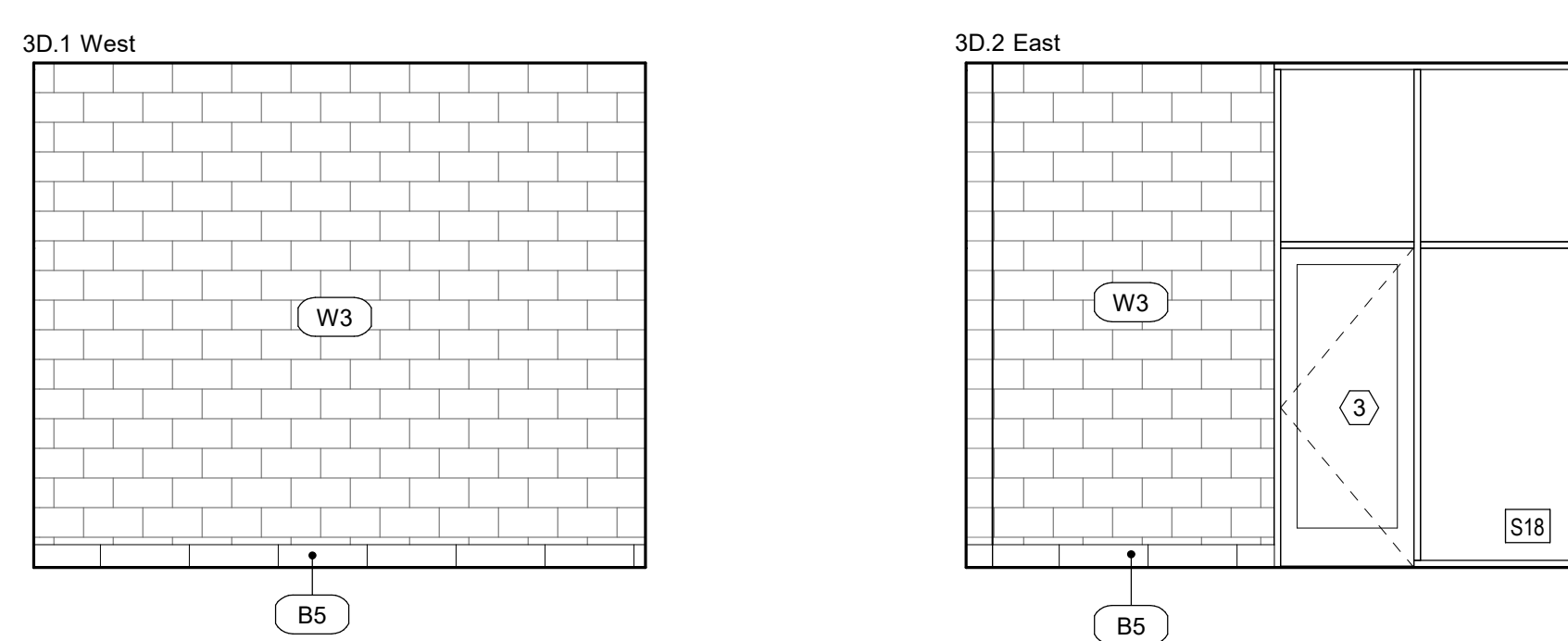
Notes:

- a Restrooms and showers - epoxy paint - with semi-gloss sheen
- b Paint sheen, walls = egg shell
- c Color by architect
- d Install sealant at tile corners - refer to detail 4D / A502
- e Refer to 6B / A404 for typical cementitious wood fiber panel details
- f Refer to 1B / A504 for typical visual display panels details
- g Center on wall with no less than 1/2 tile at edges
- h Fill holes to match adjacent surfaces flat and smooth prior to sealing with tilt wall patch slurry

Countertop Schedule		
Mark	Description	Notes
PL1	Plastic Laminate with 4" back splash (where occurs)	a
SS1	Solid Surface with 4" back splash (where occurs)	a
SS2	Solid Surface (no back splash)	a

Notes:

- a Color by Architect



Ogden School District  
1950 Monroe Blvd.  
Ogden, Utah 84401



Project For  
The Ogden School District Board of Education

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Project Phase  
Bid Documents

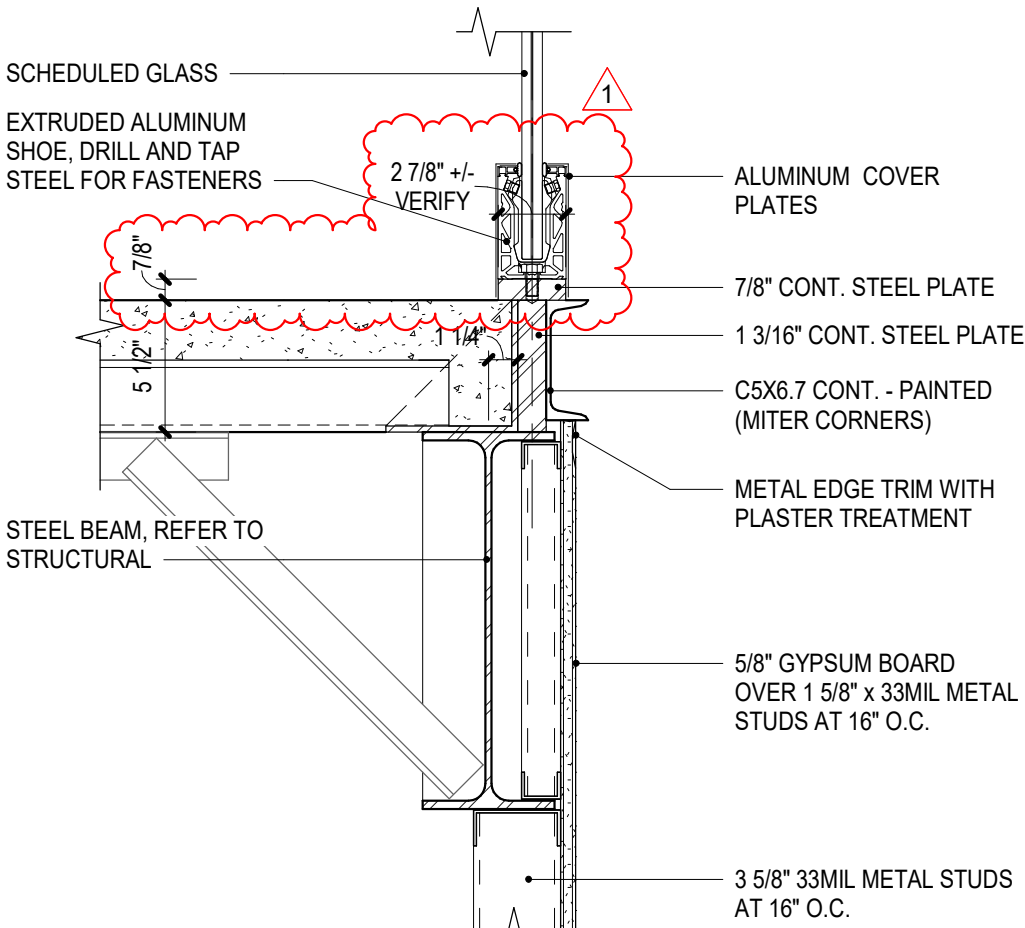
Revision Schedule		
No.	Description	Date
1	Addendum 1	08/13/20

Project Number  
143.004  
Project Issue Date  
30 July 2020  
Sheet Title  
Interior Elevations  
Sheet Number

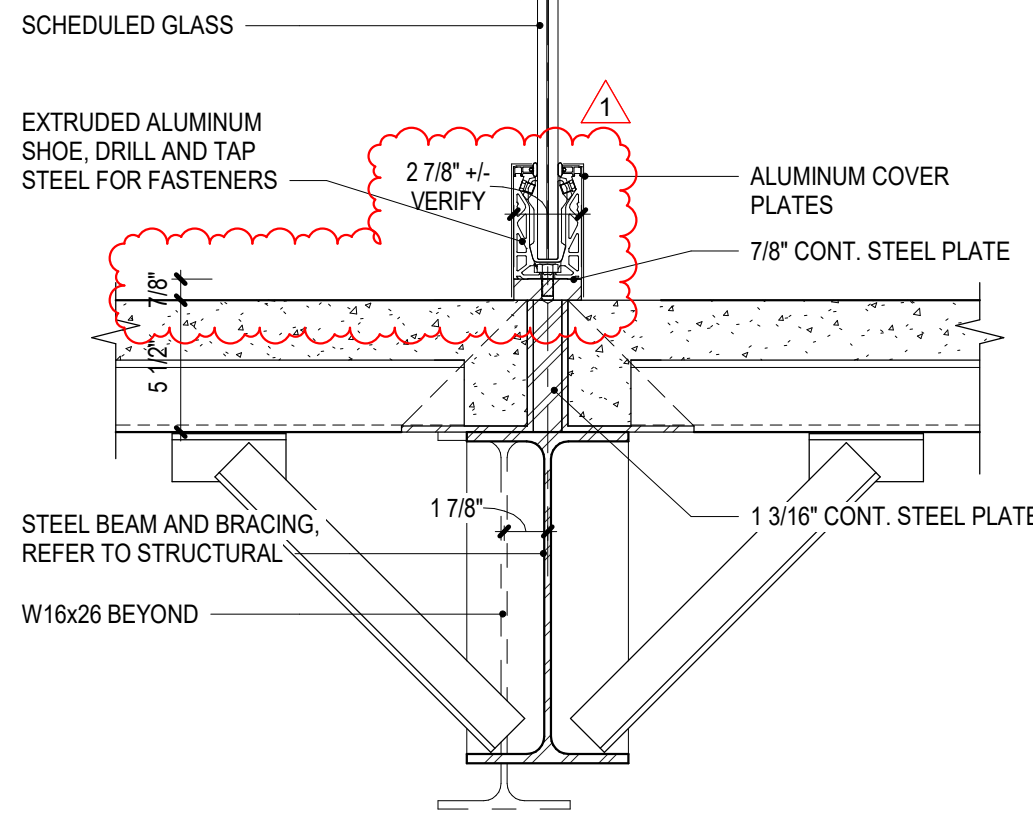
A407



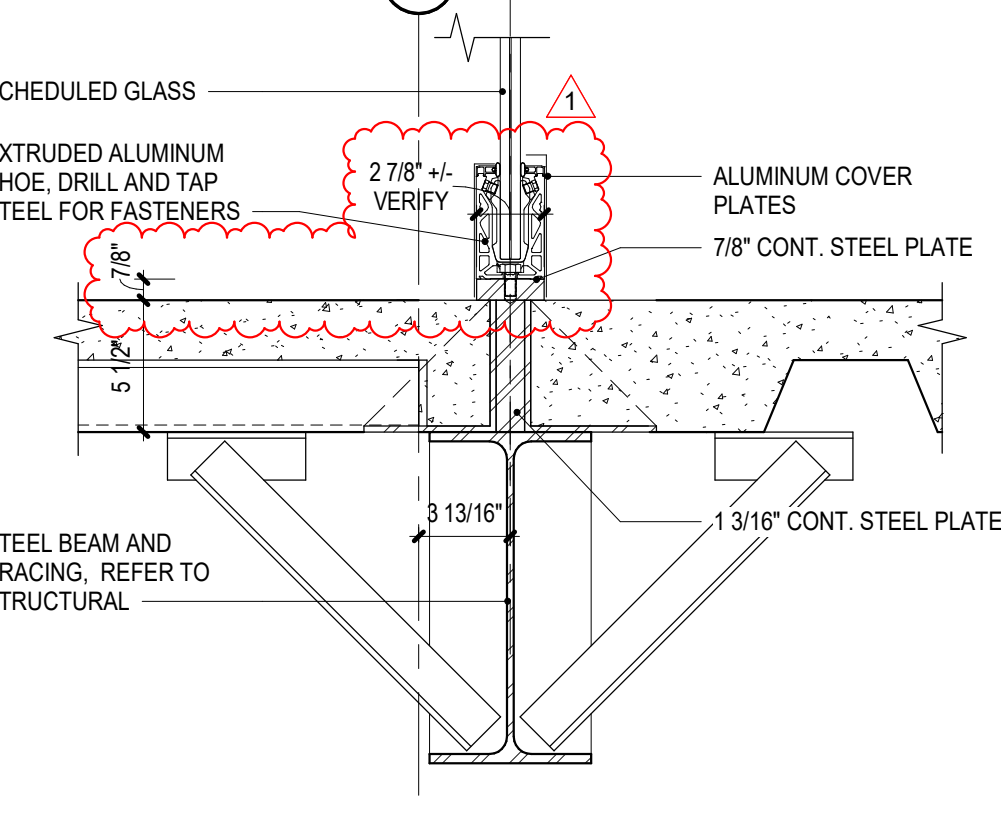
8/22/2020 11:00:37 AM B:\M\350\T.O Smith\T.O Smith Architectural Revit 2020.rvt



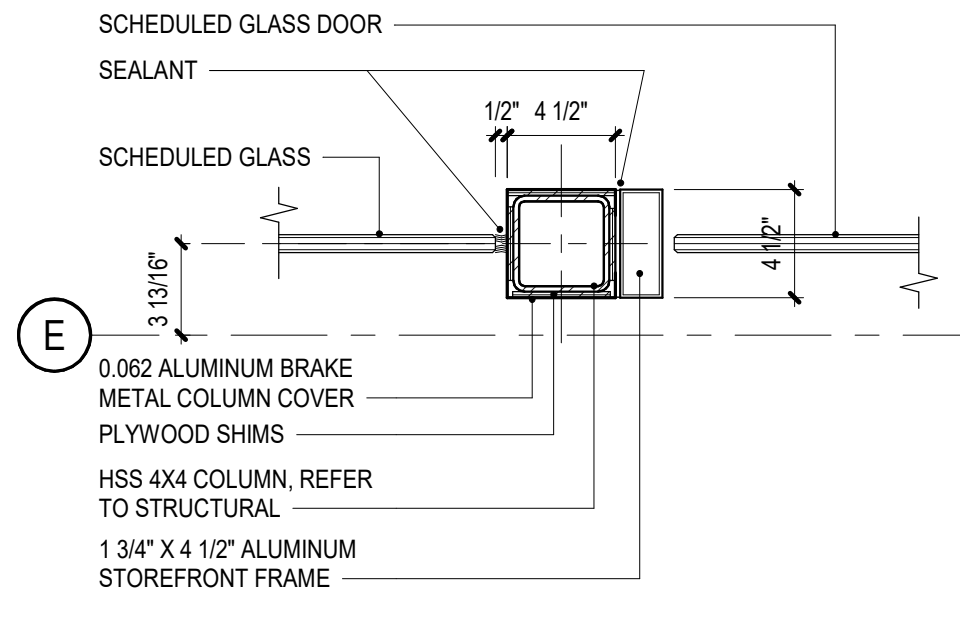
6E Cantilevered Guard Rail Detail  
Scale: 1 1/2" = 1'-0"



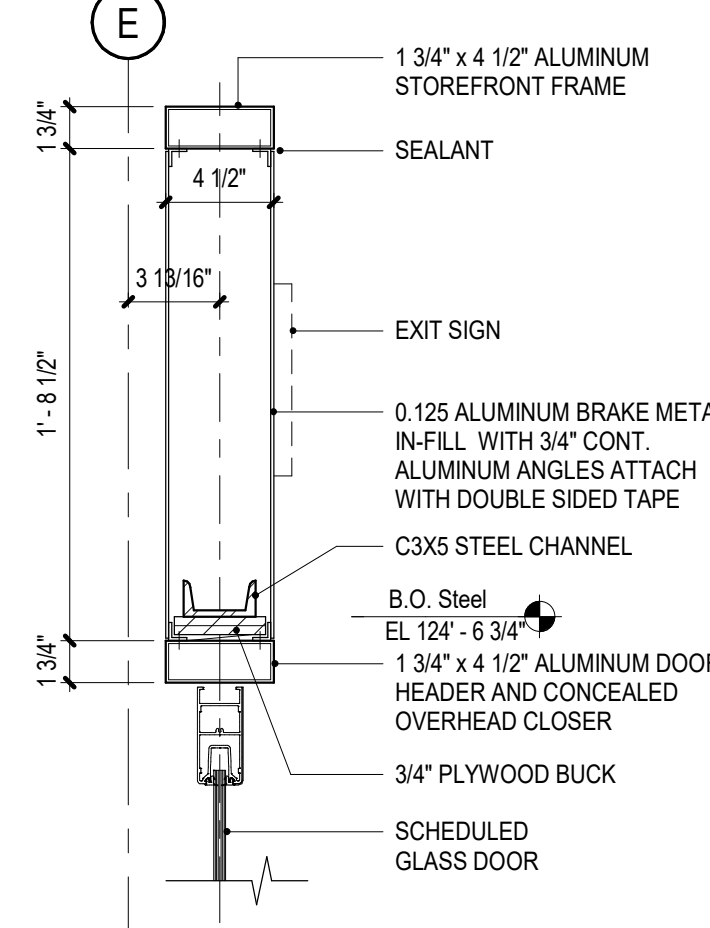
5E Sill Detail  
Scale: 1 1/2" = 1'-0"



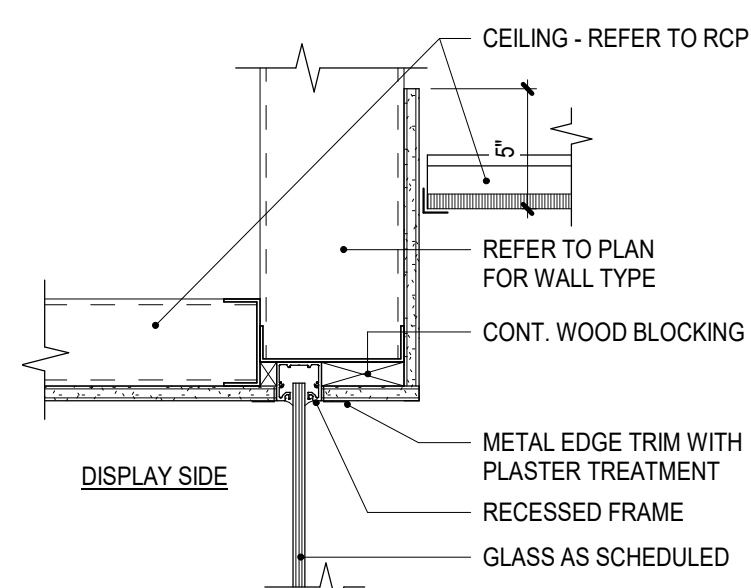
4E Sill Detail  
Scale: 1 1/2" = 1'-0"



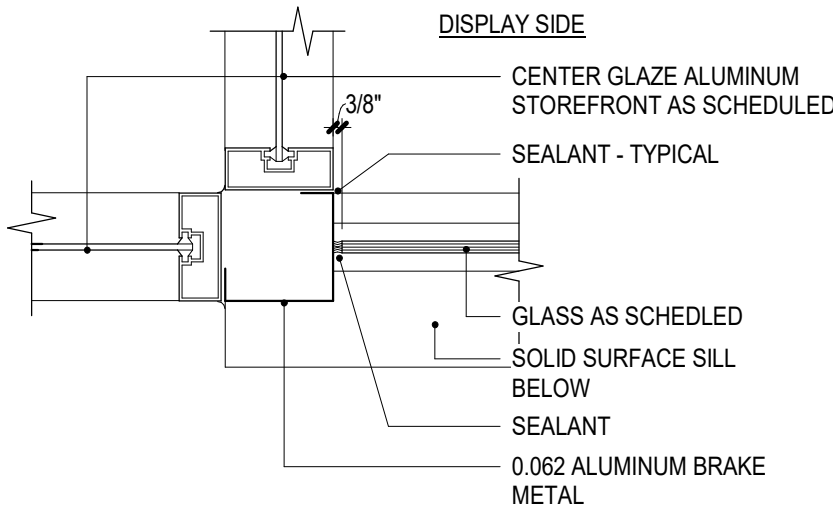
3E Jamb Detail  
Scale: 1 1/2" = 1'-0"



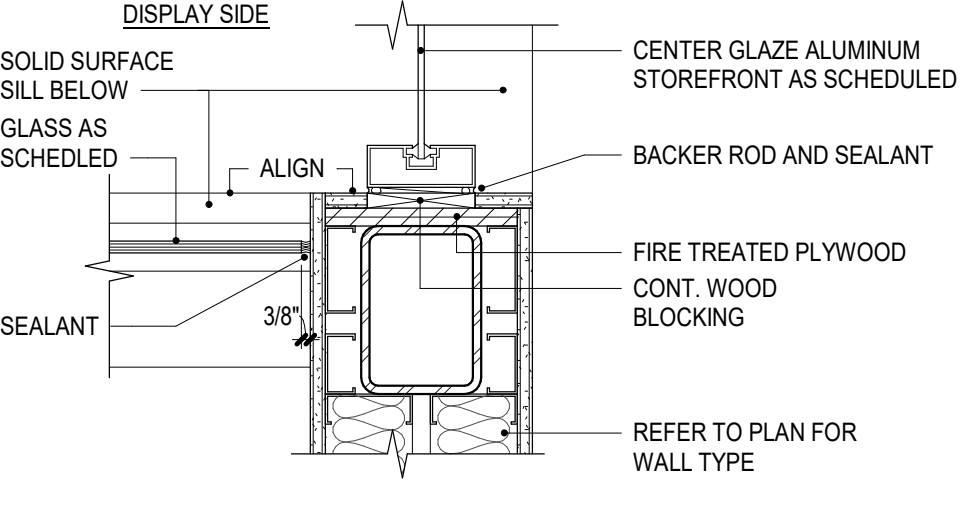
2E Head Detail  
Scale: 1 1/2" = 1'-0"



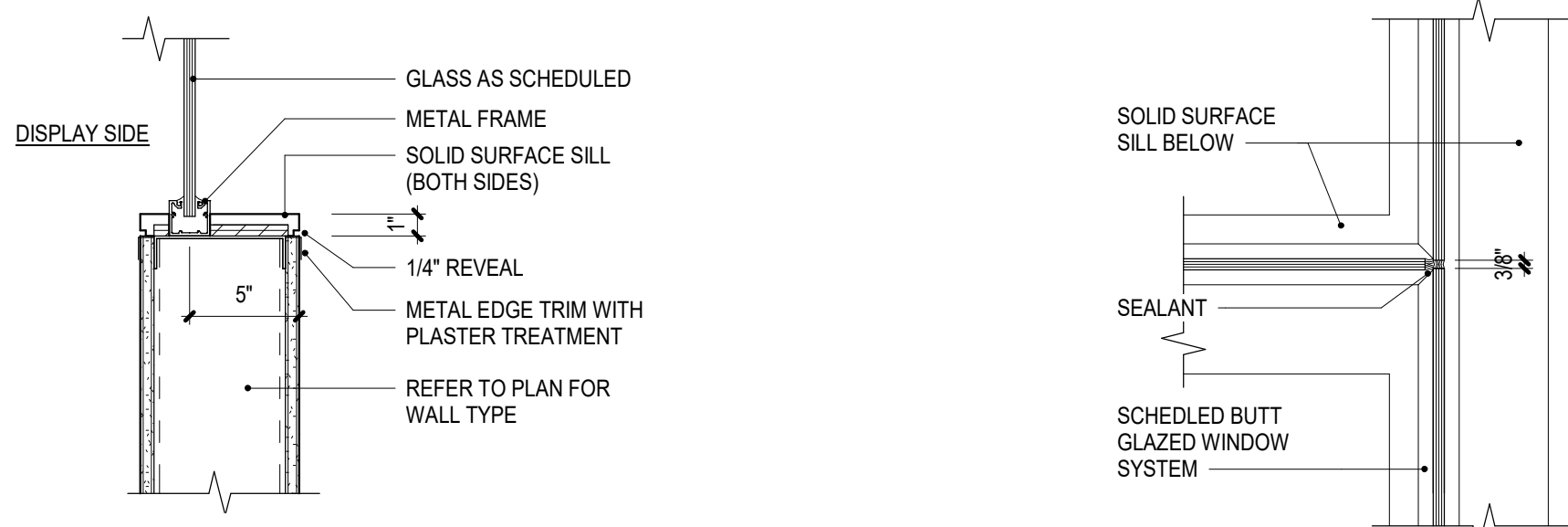
1E Head Detail  
Scale: 1 1/2" = 1'-0"



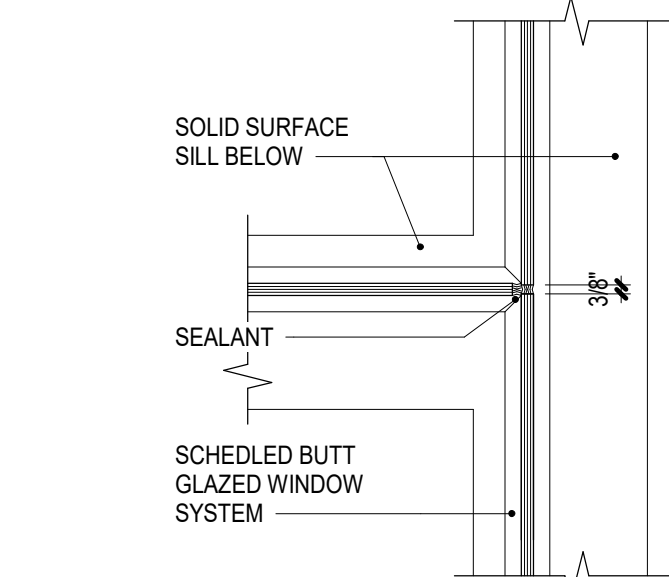
6D Jamb Detail  
Scale: 1 1/2" = 1'-0"



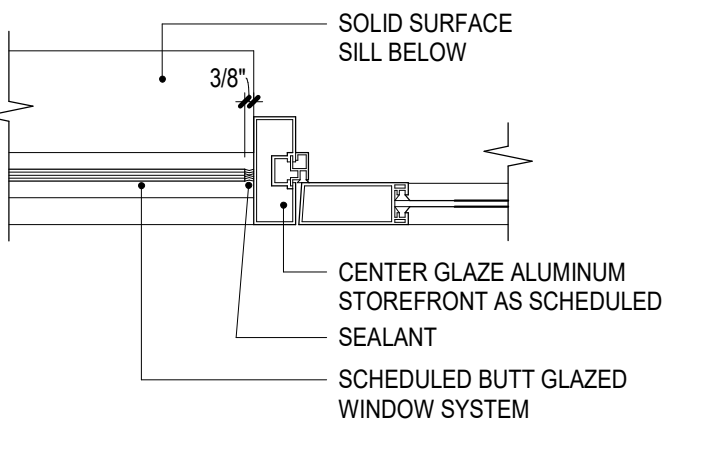
5D Jamb Detail  
Scale: 1 1/2" = 1'-0"



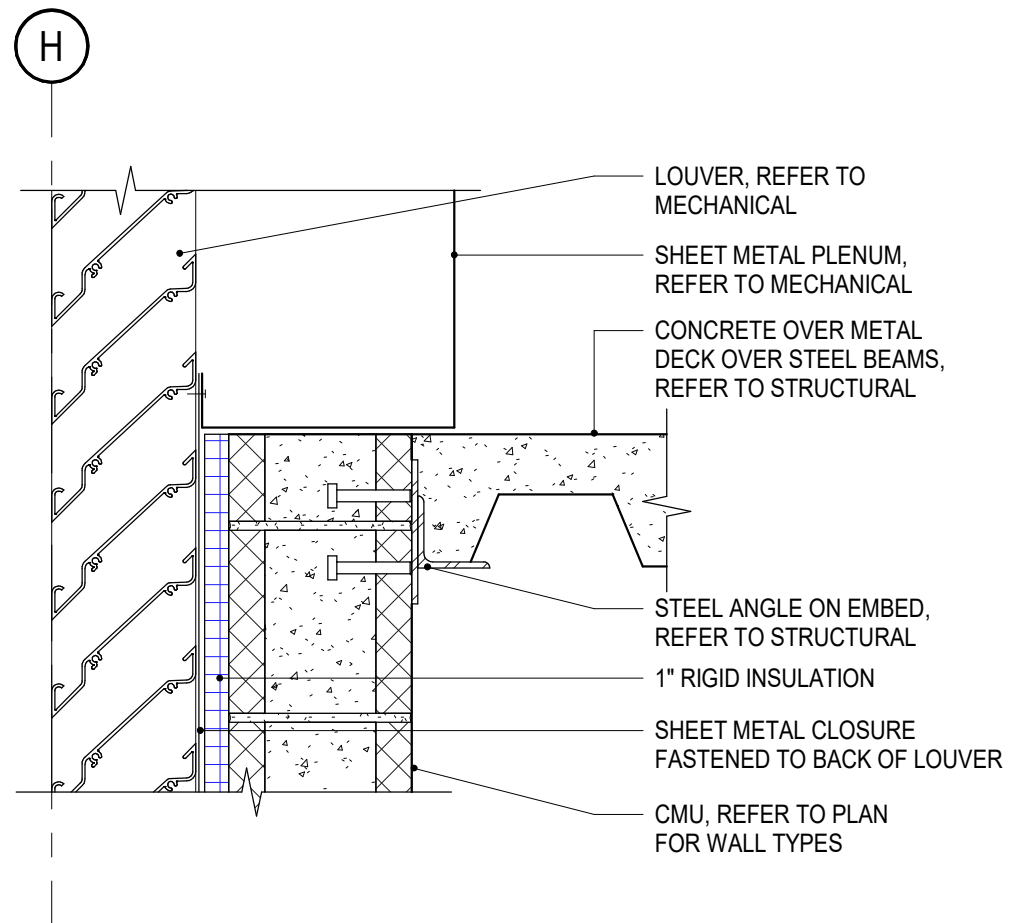
4D Sill Detail  
Scale: 1 1/2" = 1'-0"



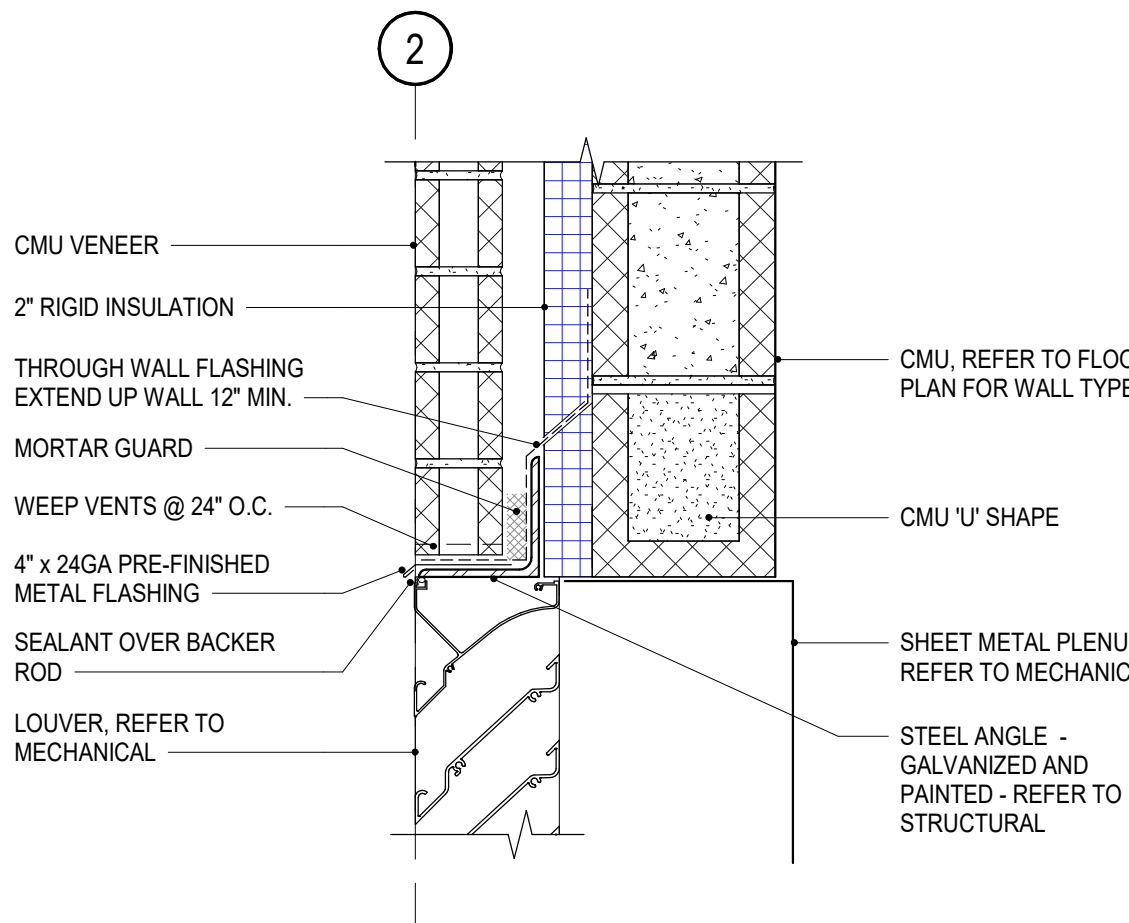
3D Jamb Detail  
Scale: 1 1/2" = 1'-0"



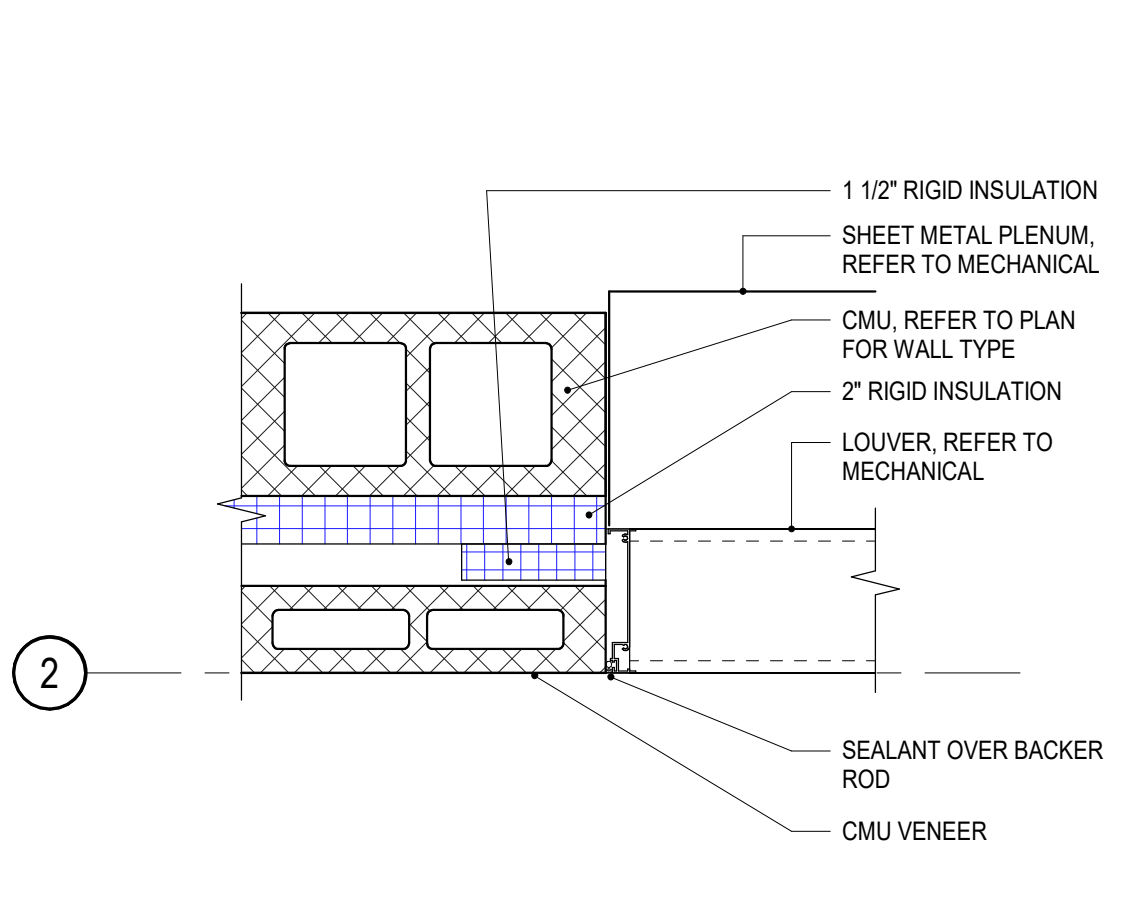
2D Jamb Detail  
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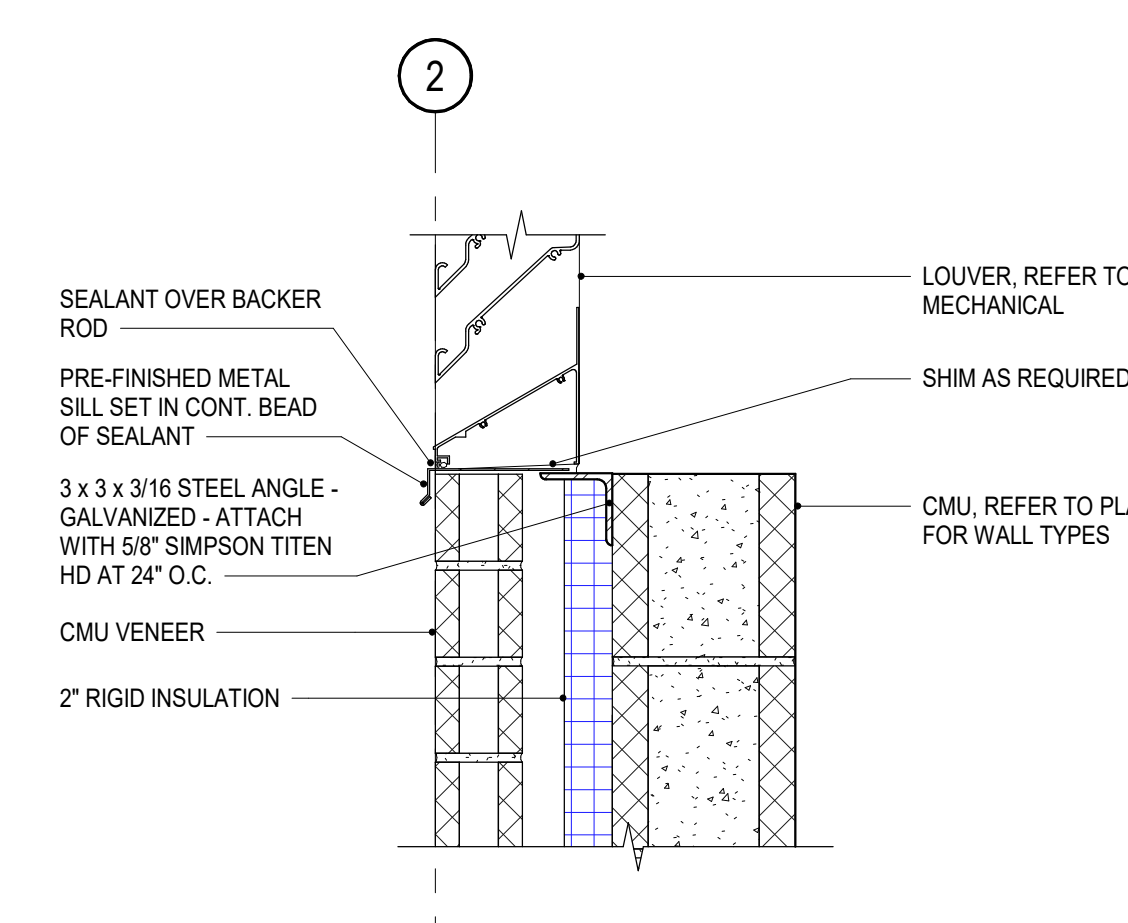
1D Louver Detail  
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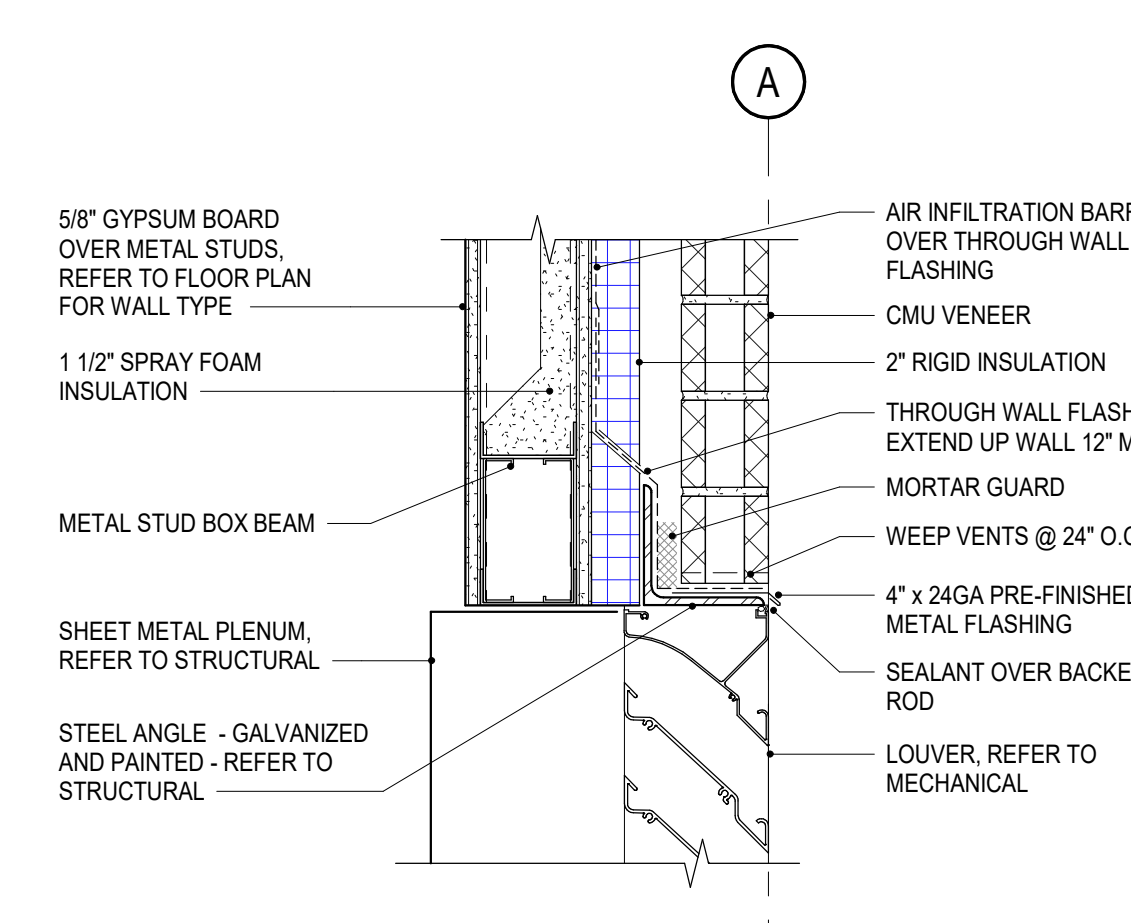
6C Head Detail  
Scale: 1 1/2" = 1'-0"



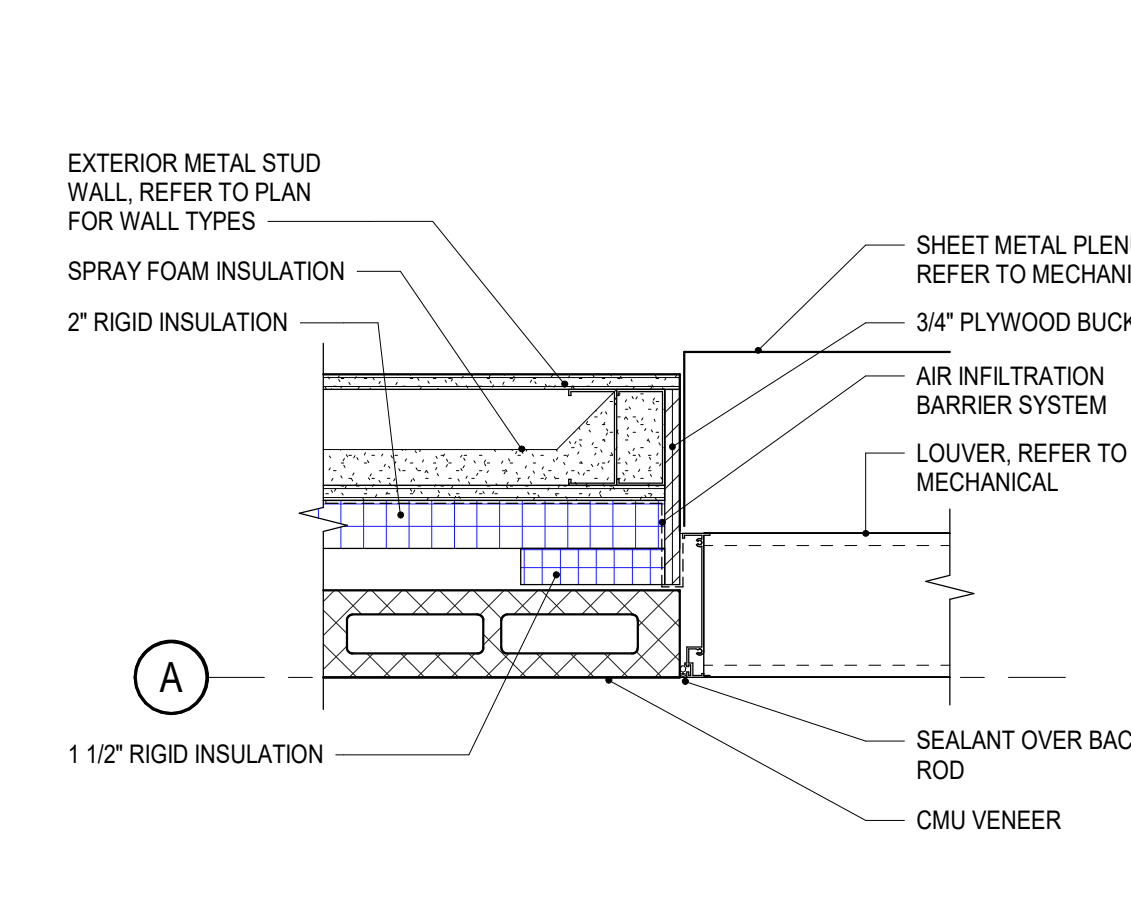
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Scale: 1 1/2" = 1'-0"



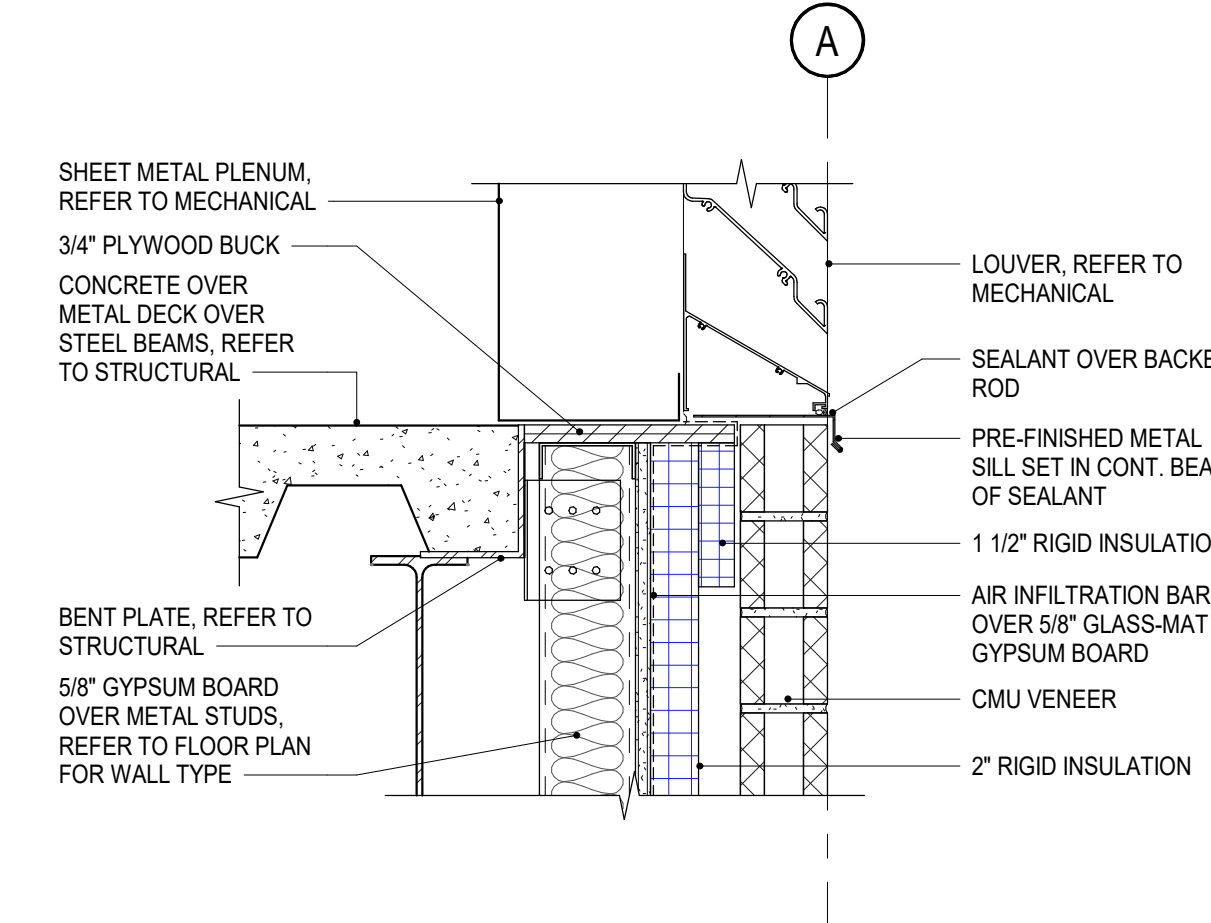
4C Sill Detail  
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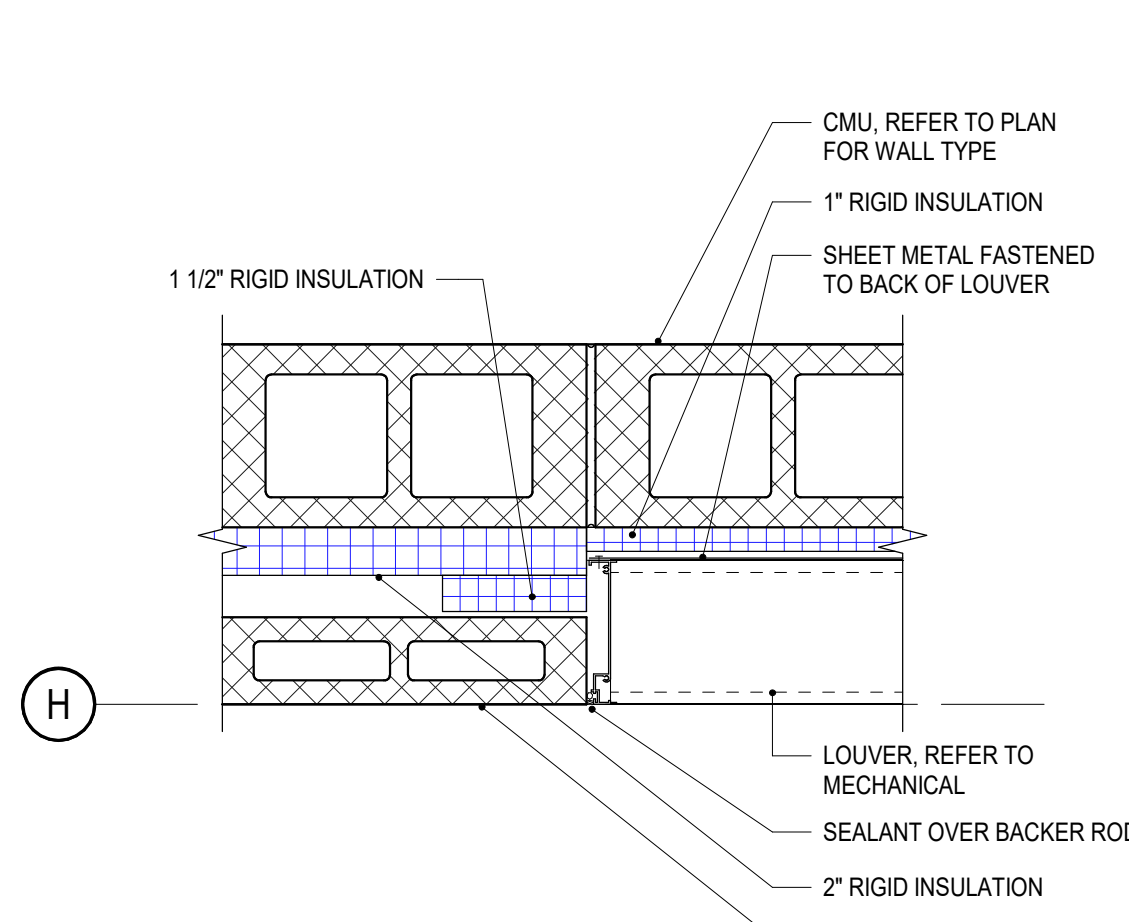
3C Head Detail  
Scale: 1 1/2" = 1'-0"



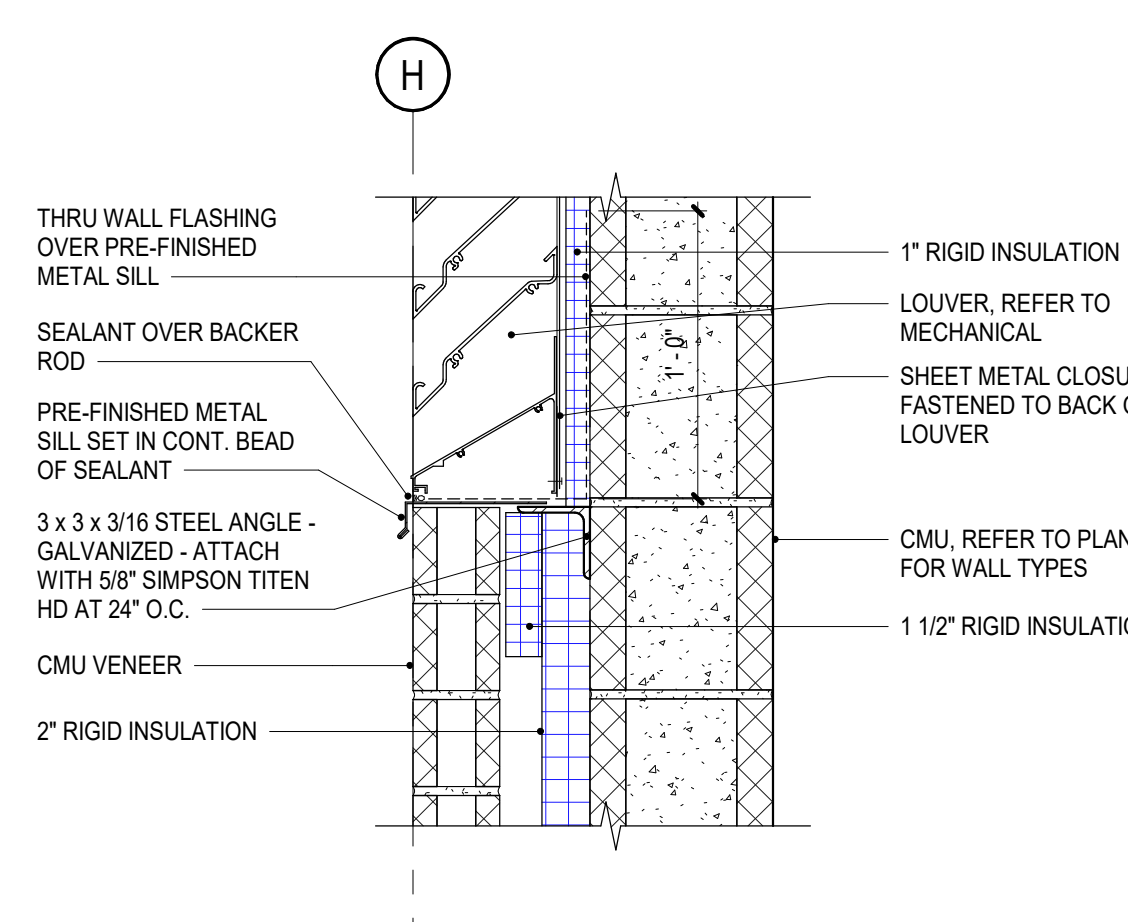
2C Jamb Detail  
Scale: 1 1/2" = 1'-0"



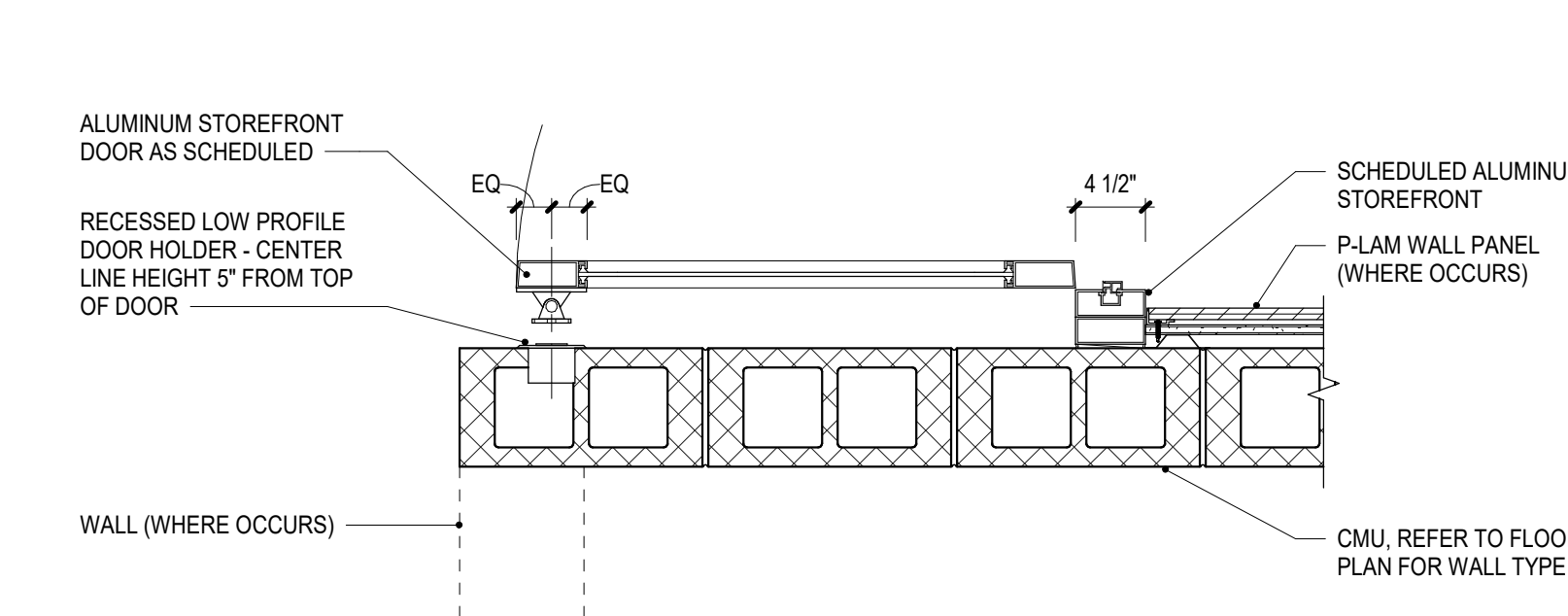
1C Sill Detail  
Scale: 1 1/2" = 1'-0"



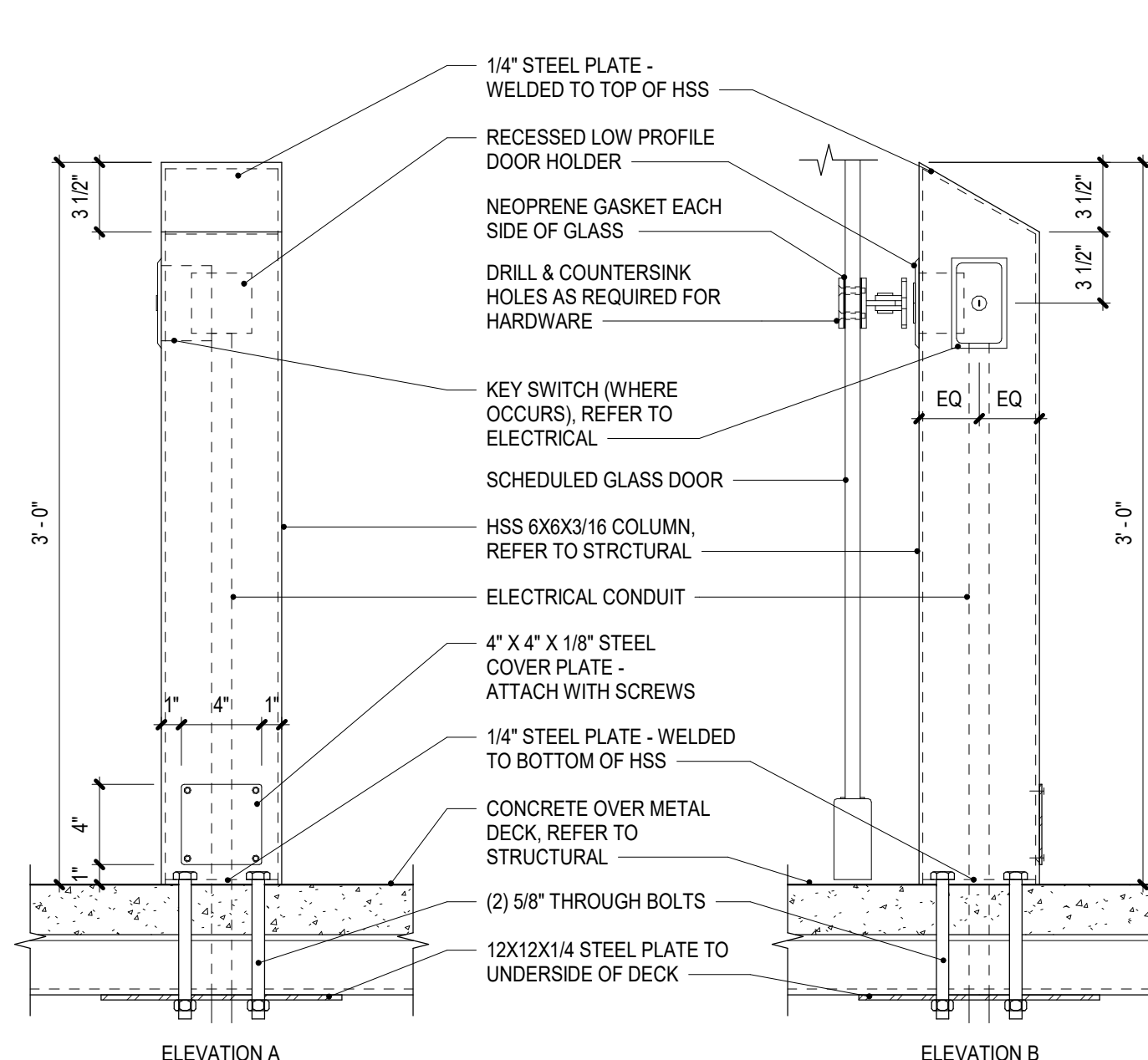
6B Jamb Detail  
Scale: 1 1/2" = 1'-0"



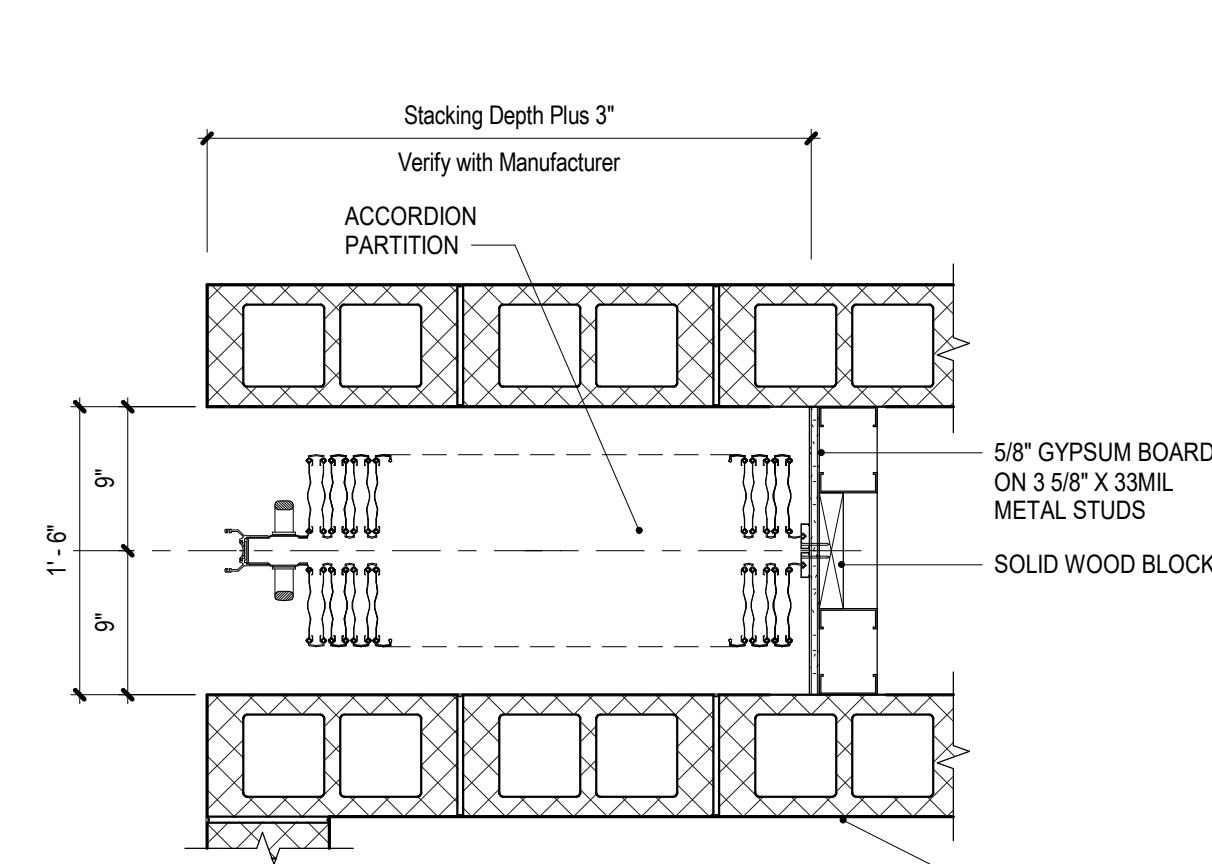
5B Sill Detail  
Scale: 1 1/2" = 1'-0"



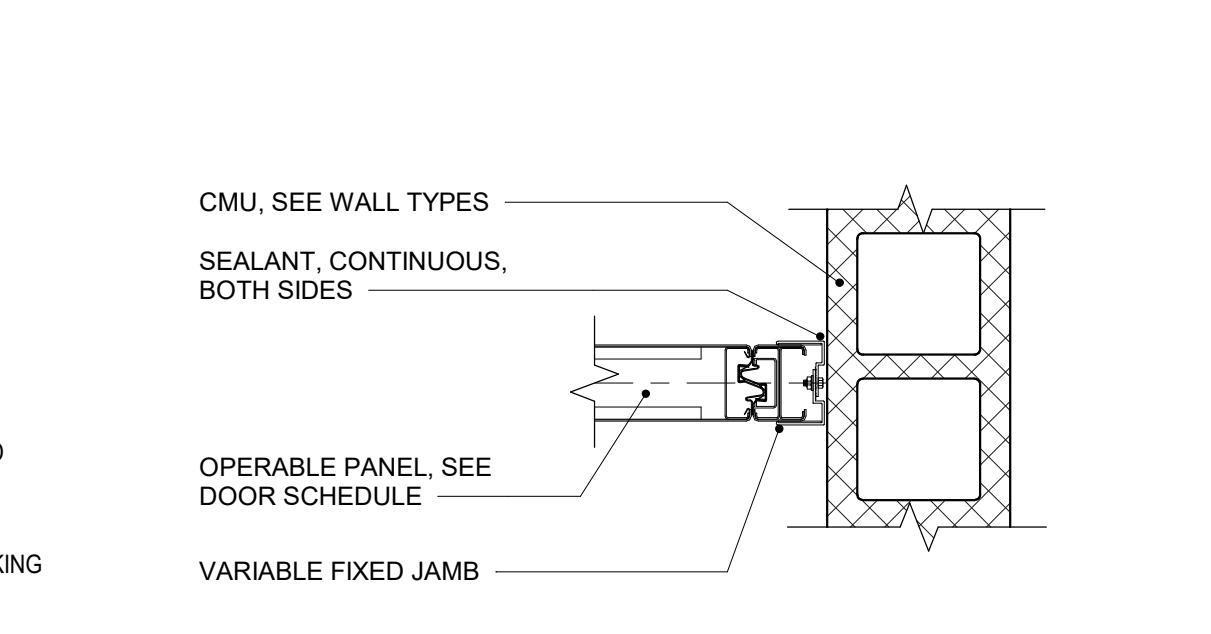
4B Door Hold Open Detail  
Scale: 1" = 1'-0"



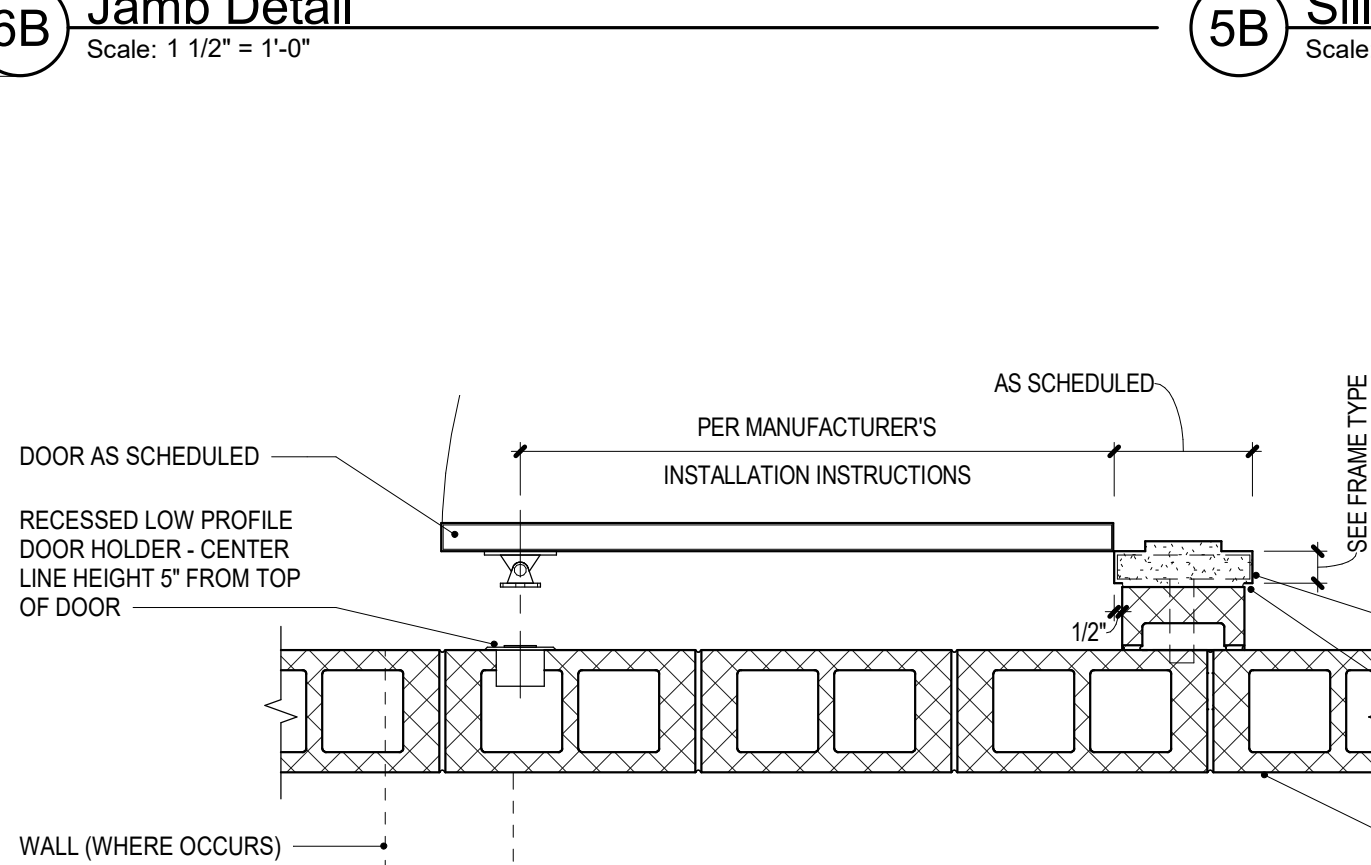
3B Head Detail  
Scale: 1 1/2" = 1'-0"



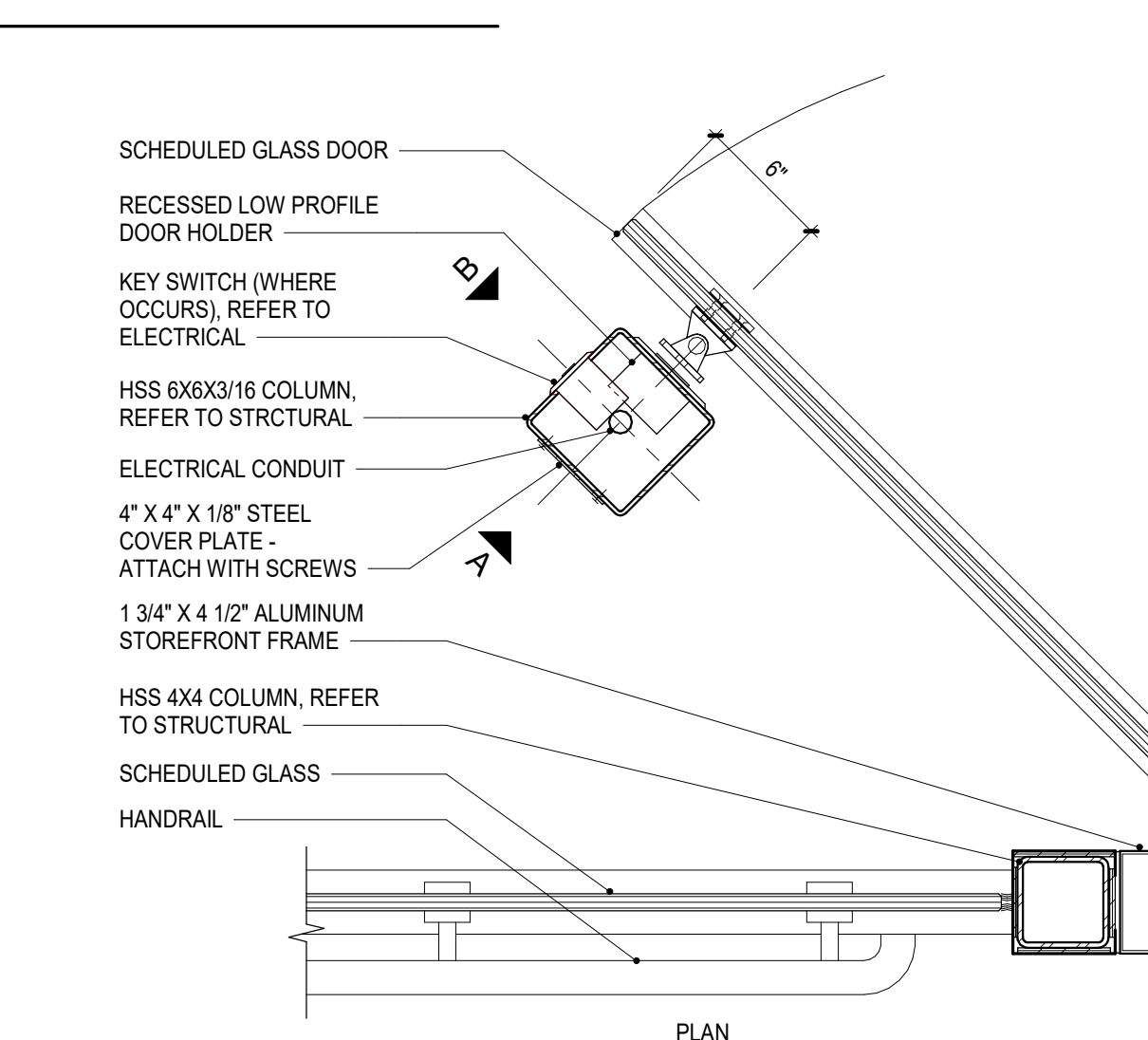
2B Jamb Detail  
Scale: 1" = 1'-0"



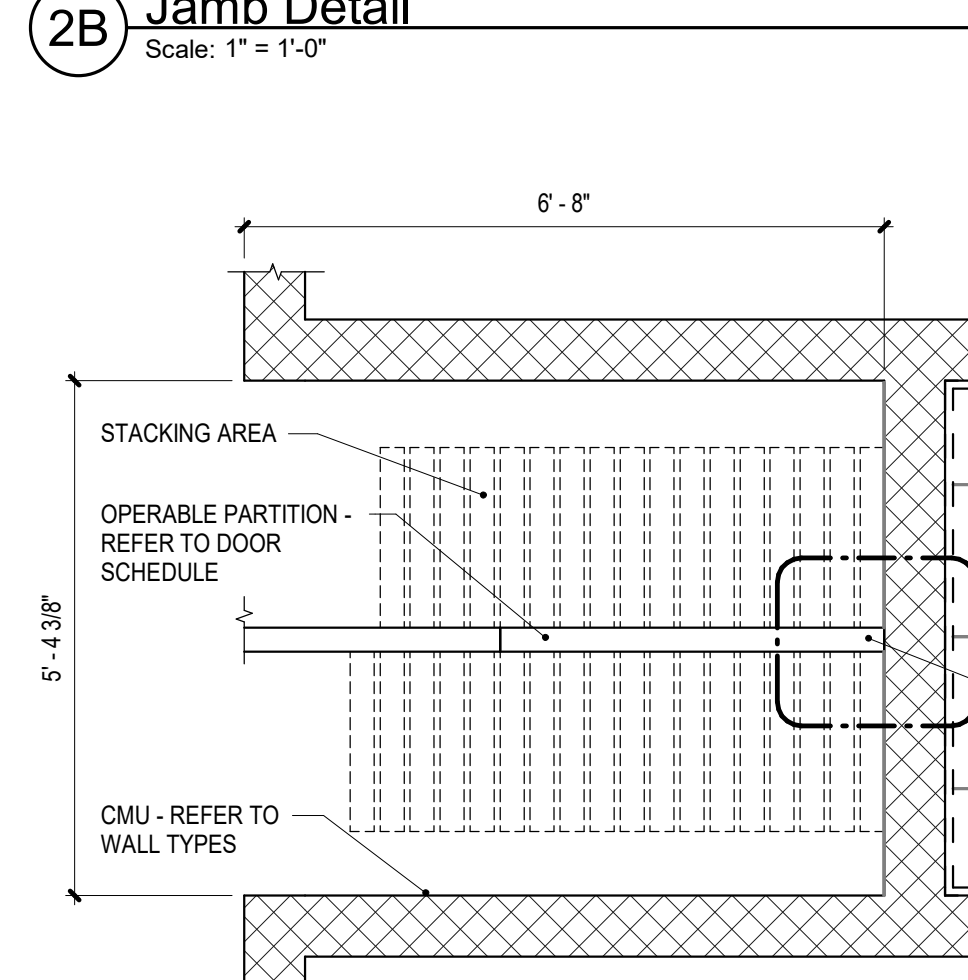
1B Jamb Detail  
Scale: 1 1/2" = 1'-0"



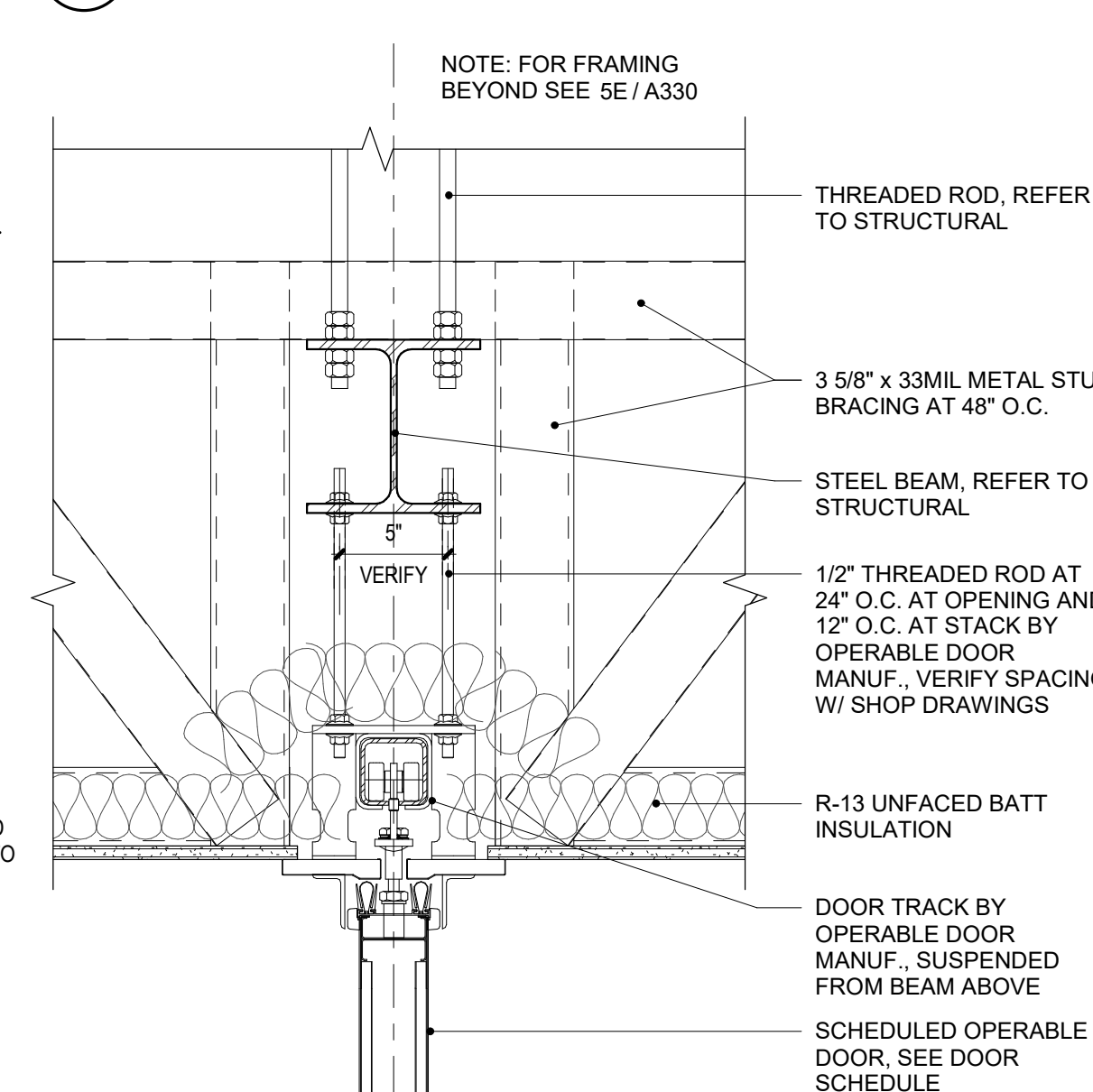
6A Door Hold Open Detail  
Scale: 1" = 1'-0"



5A Sill Detail  
Scale: 1 1/2" = 1'-0"

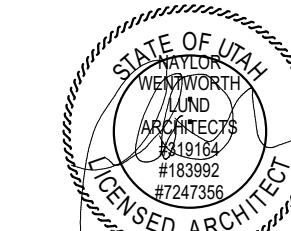


2A Jamb Detail  
Scale: 1/2" = 1'-0"



1A Head Detail  
Scale: 1 1/2" = 1'-0"

Stamp



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Salt Lake City, UT 84104  
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Ogden School District  
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Project Phase  
Bid Documents

No.	Description	Date
1	Addendum 1	08/13/20

Project Number  
143.004

Project Issue Date  
30 July 2020

Sheet Title  
Opening Details

Sheet Number

A610





**CALDER RICHARDS**  
CONSULTING ENGINEERS

ADDENDUM 1

---

Date: 8/13/2020  
Client: NWL Architects  
Project: T.O. Smith Elementary School Rebuild  
By: Marc Shields

Structural Narrative of Addendum No.1

---

**S503**

- Changed stud connector note on details B1, B2, B3, C2 and C3 so they are uniform and correctly reference detail D1/S507.

**S504**

- Changed stud connector note on detail D3 to be uniform with details on S503.
- Changed stud note on D3 to call out exterior stud size.

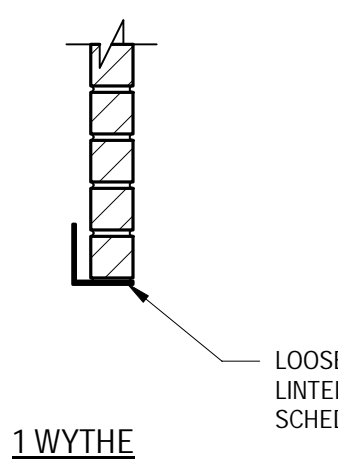
**S506**

- Changed stud connector note on details B1 and D6 so they are uniform with details on S503.
- Changed joist load note on detail A5 to match plan notes.

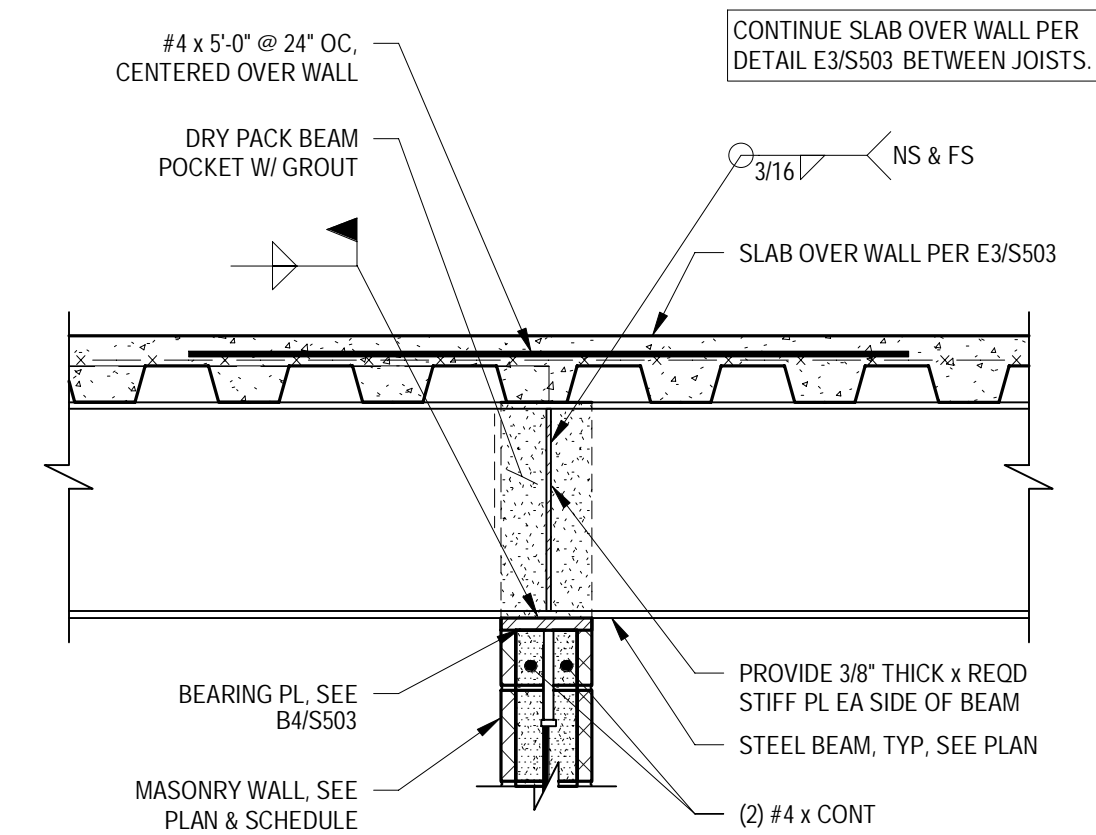


SCHEDULE - BRICK VENER STEEL ANGLE LINTEL	
Rough Opening (RO) Width	Steel Angle/Bent PL Lintel Size
RO WIDTH $\leq 6'-0"$	L5x5x5/16
6'-0" < RO WIDTH $\leq 10'-0"$	L6x6x7/16
10'-0" < RO WIDTH	CONTACT STRUCTURAL ENGINEER

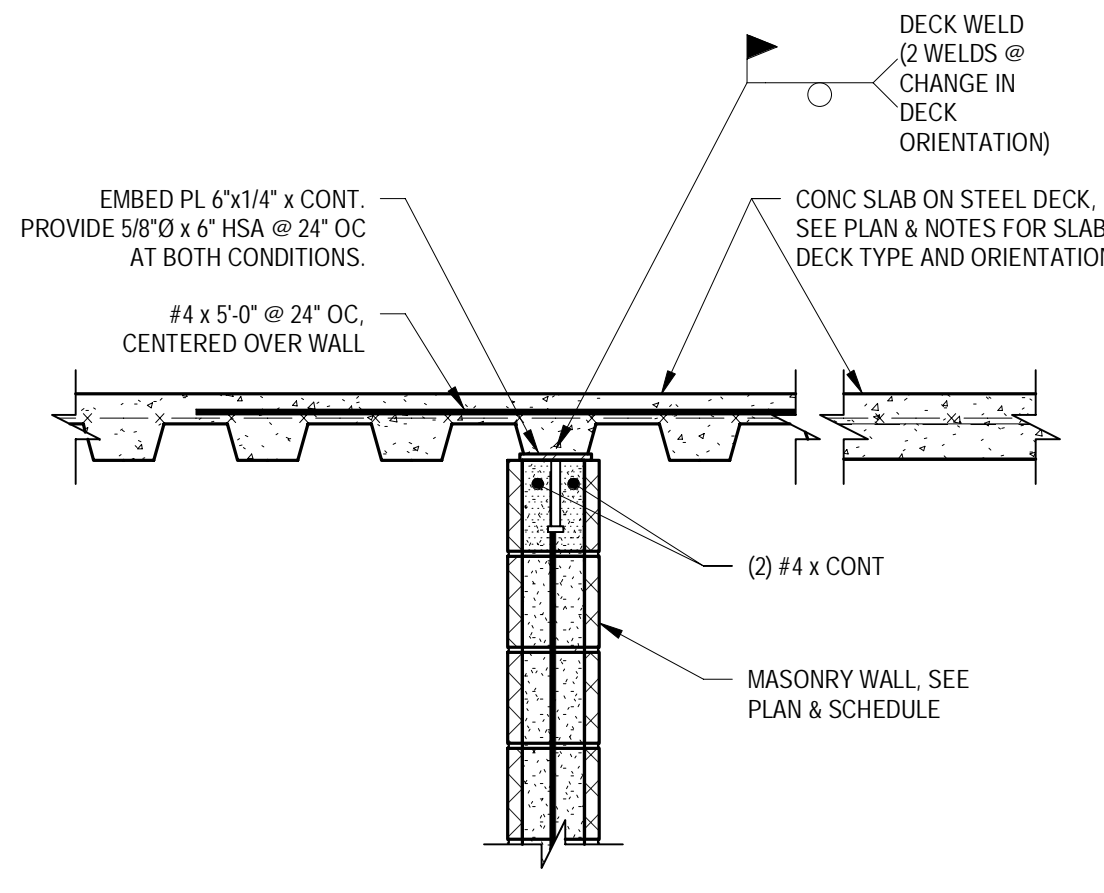
NOTES:  
1. PROVIDE 6" MINIMUM BEARING AT EACH END.



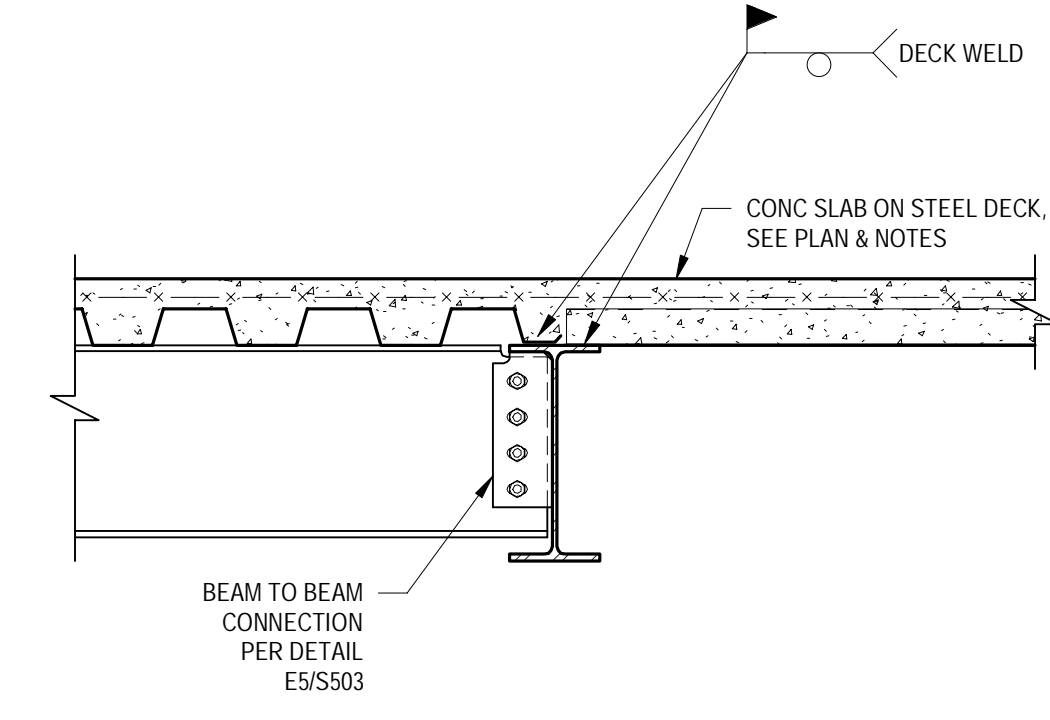
**E1 STEEL ANGLE LINTEL SCHEDULE**  
NO SCALE 4757\_01



**E2** 3/4" = 1'-0" SC5236\_F



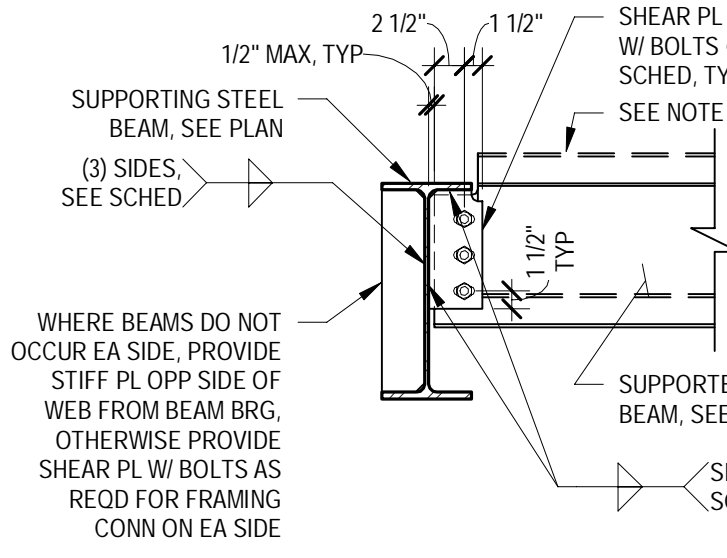
**E3** 3/4" = 1'-0" SC5236\_F



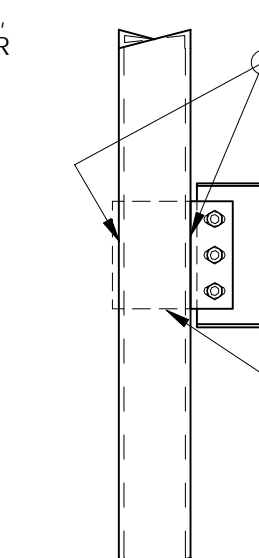
**E4** 3/4" = 1'-0" SC4436\_F

SCHEDULE - BOLTED CONNECTION			
Beam Size	Shear Bolts	Web Stiffener	Weld Size
W8, W10	(2) 3/4"	1/4"	3/16"
W12, W14	(3) 3/4"	1/4"	3/16"
W16, W18	(4) 3/4"	5/16"	1/4"
W21	(6) 3/4"	5/16"	1/4"
W24	(6) 3/4"	3/8"	5/16"
W27	(7) 3/4"	3/8"	5/16"

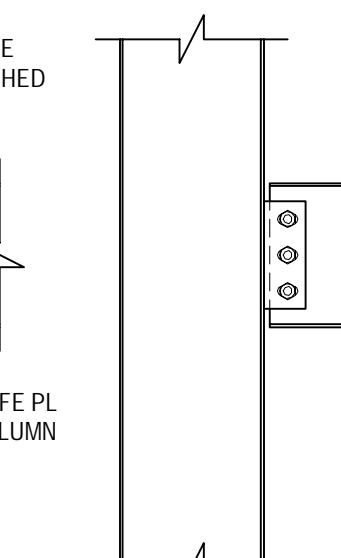
- NOTES:  
1. SEE FRAMING PLANS FOR BEAM AND/OR COLUMN SIZES.  
2. ALL BOLTS SHALL BE A325-N, TYP. UNO.  
3. DECK AND JOIST NOT SHOWN IN CONNECTION DETAILS BELOW.  
4. BEAM MAY OCCUR HIGHER FOR DECK BEARING, COORD W/ PLAN.  
5. COPE BEAM FLANGE AS REQ'D FOR CONNECTION.  
6. PROVIDE HORIZ SSHs IN SHEAR PL FOR BOLTED CONNECTION.



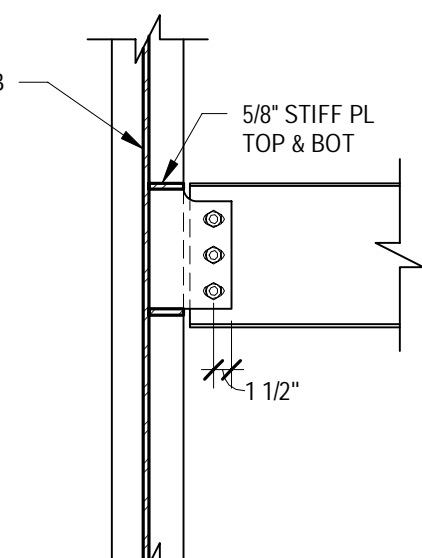
BEAM TO BEAM



BEAM TO HSS COL

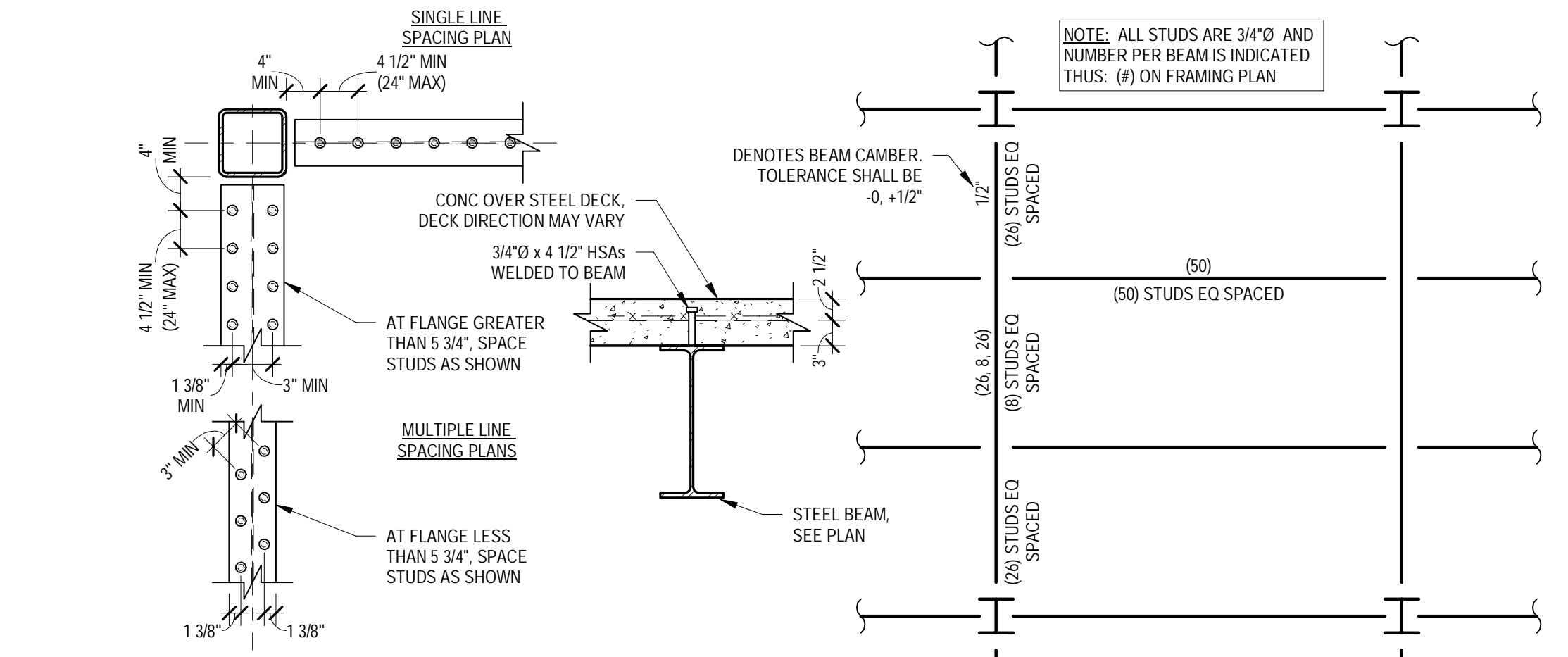


BEAM TO COL FLANGE

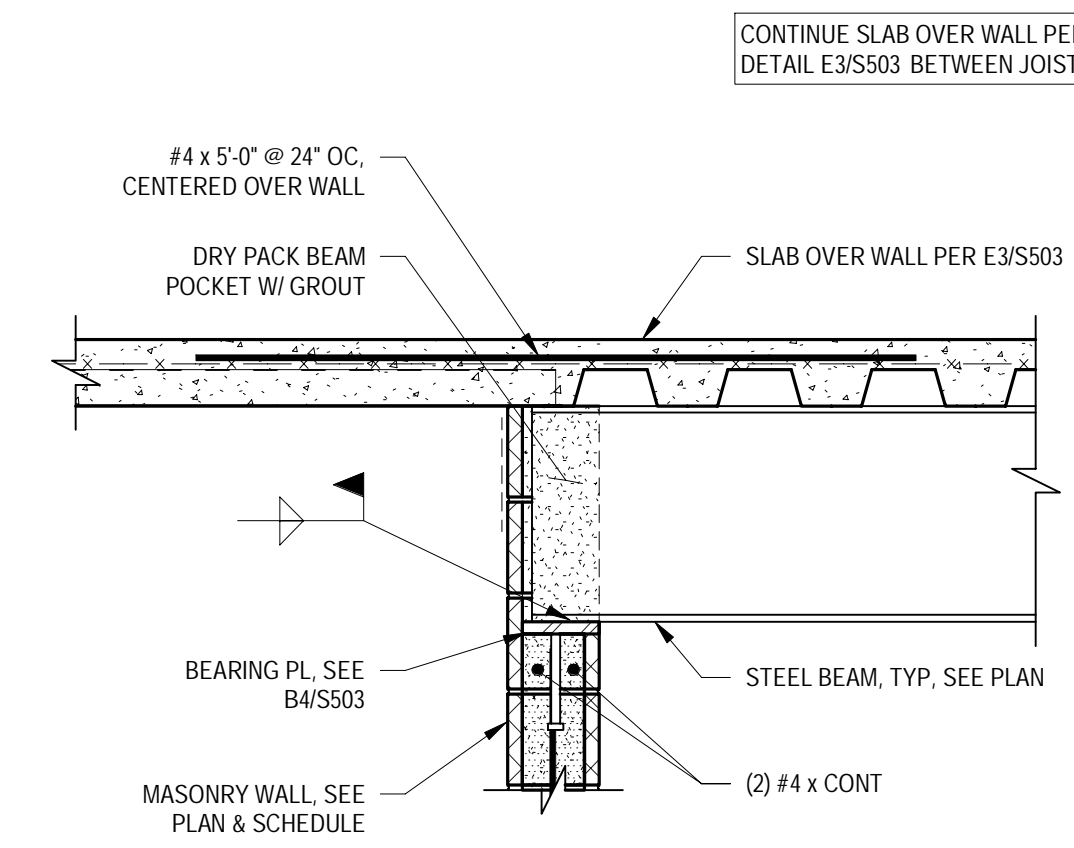


BEAM TO COL WEB

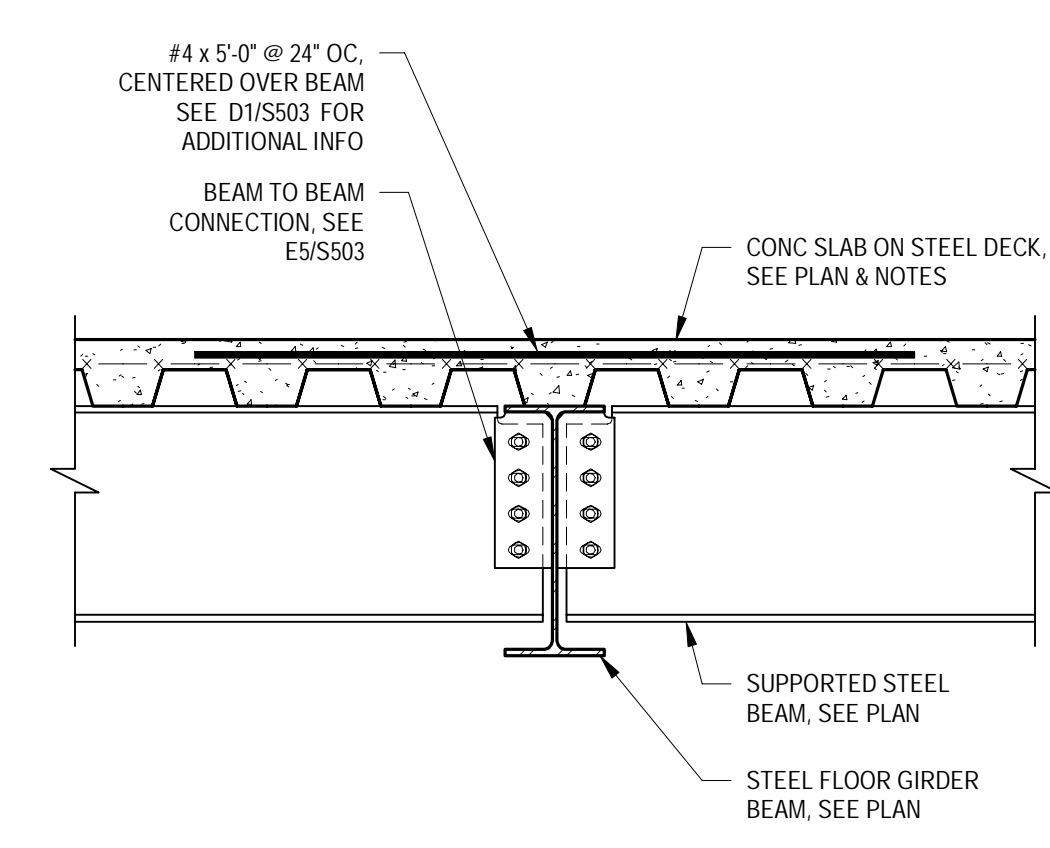
**E5** NO SCALE 4744\_03



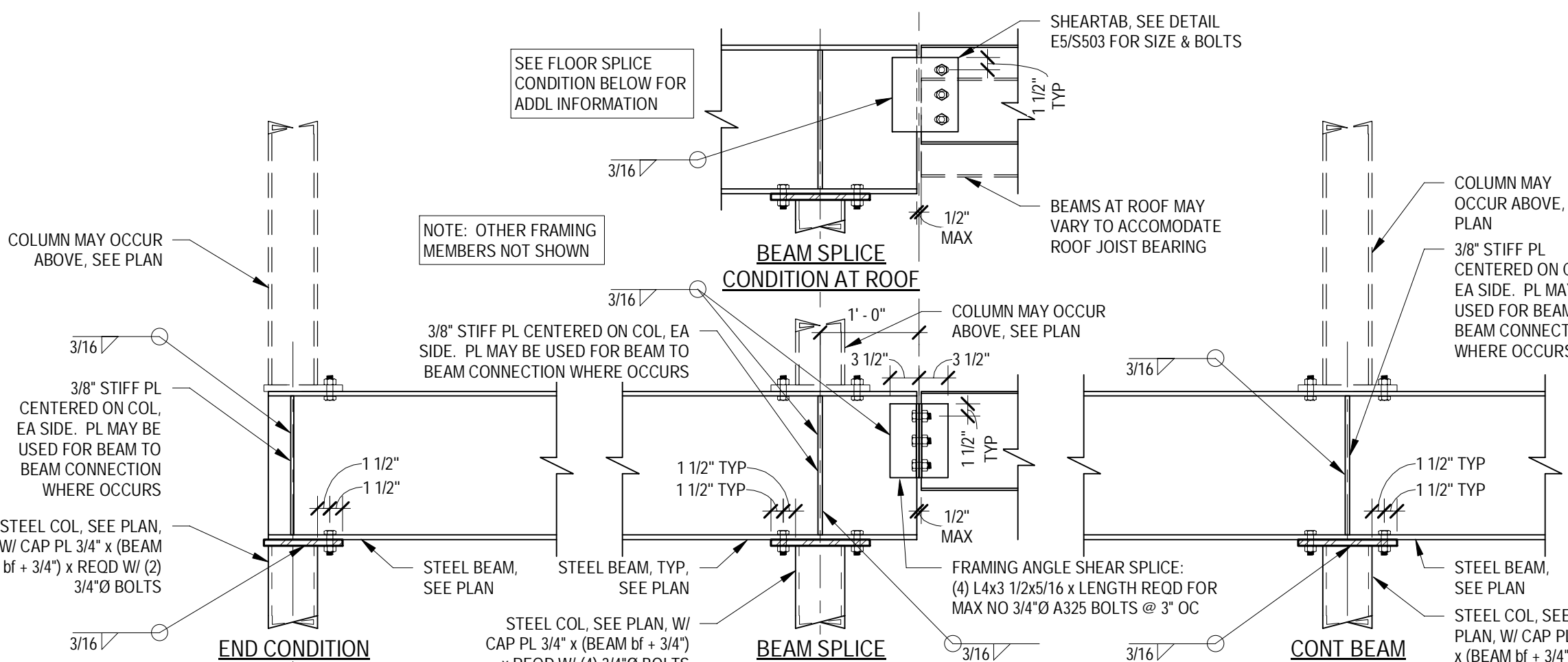
**D1** NO SCALE 4436\_01



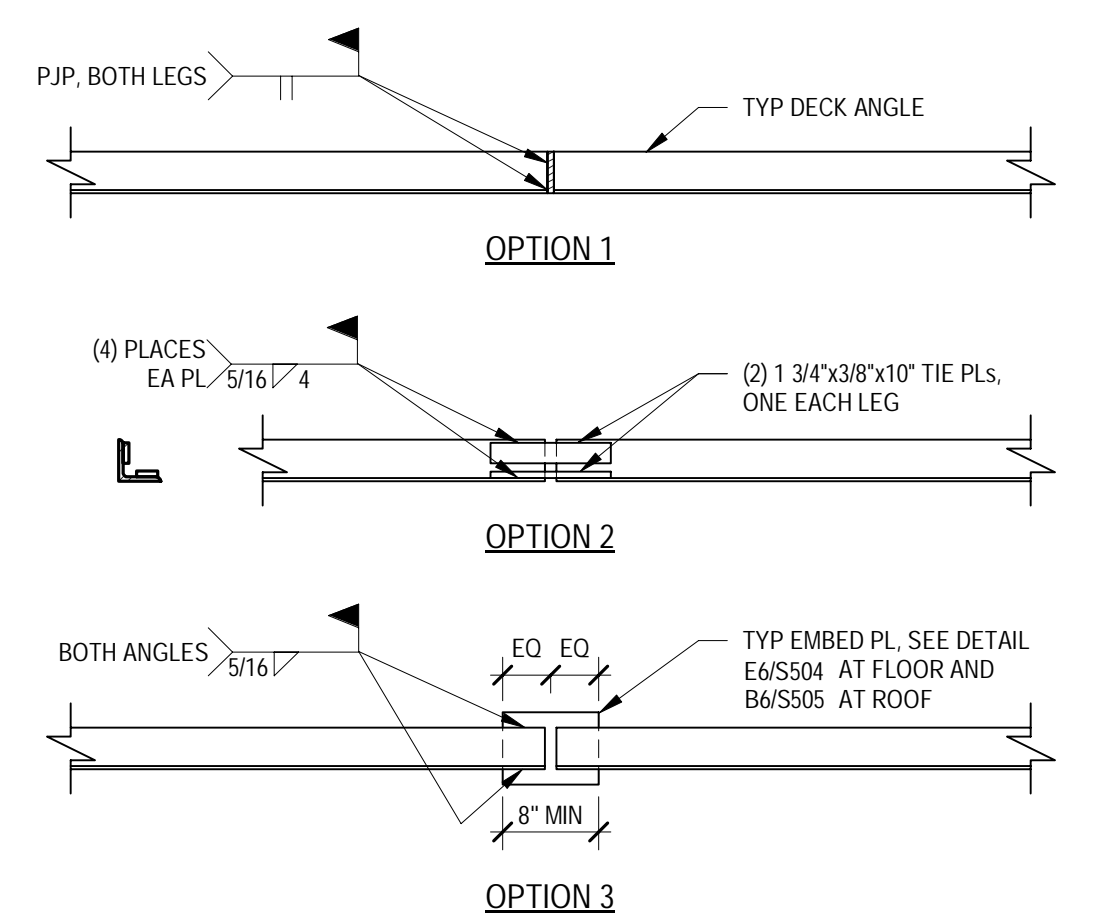
**D3** 3/4" = 1'-0" SC5244\_N



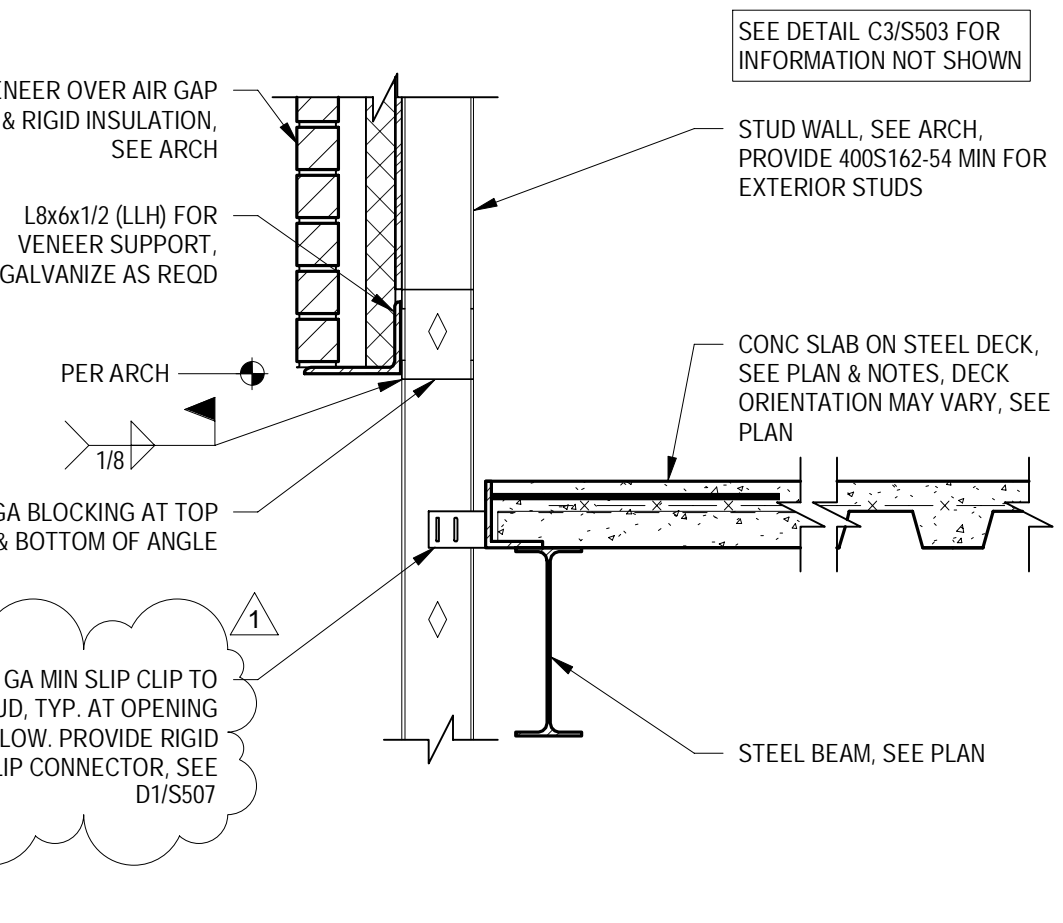
**D4** 3/4" = 1'-0" SC4436\_S



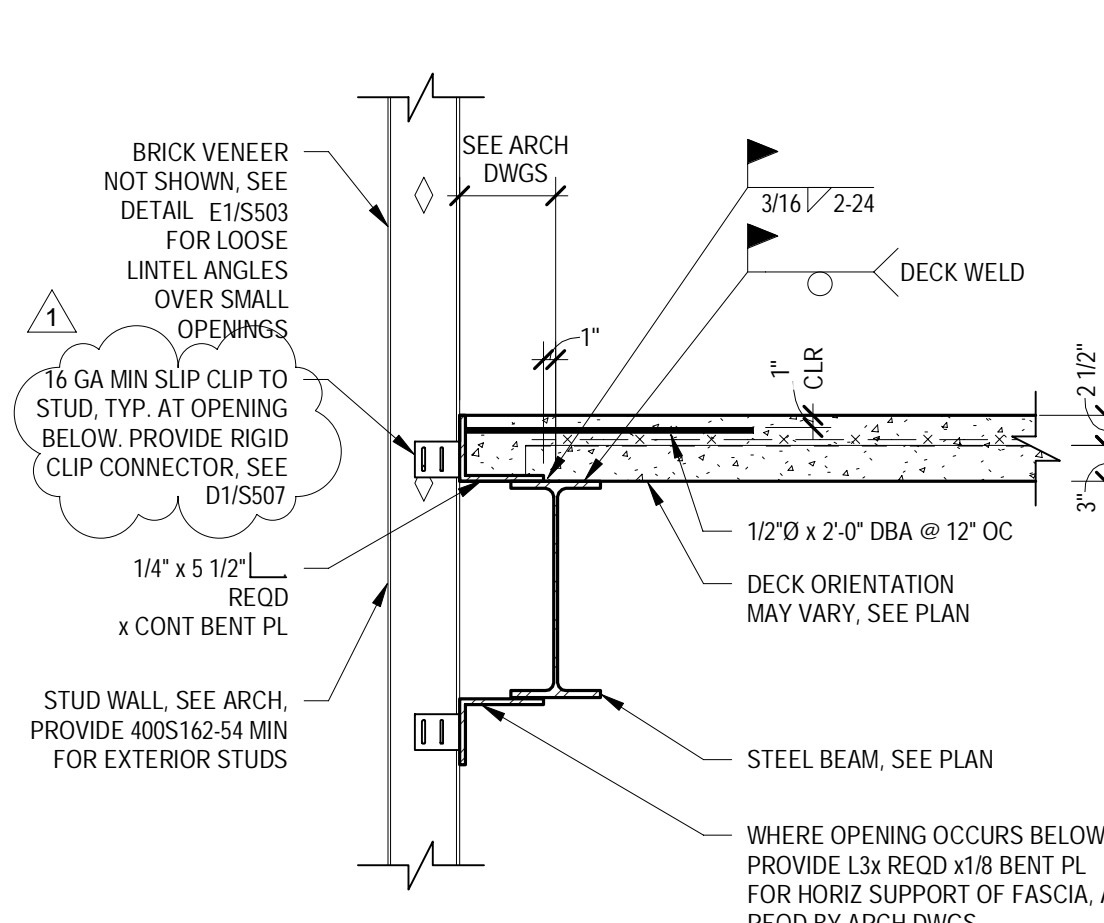
**D5** NO SCALE 4344\_05



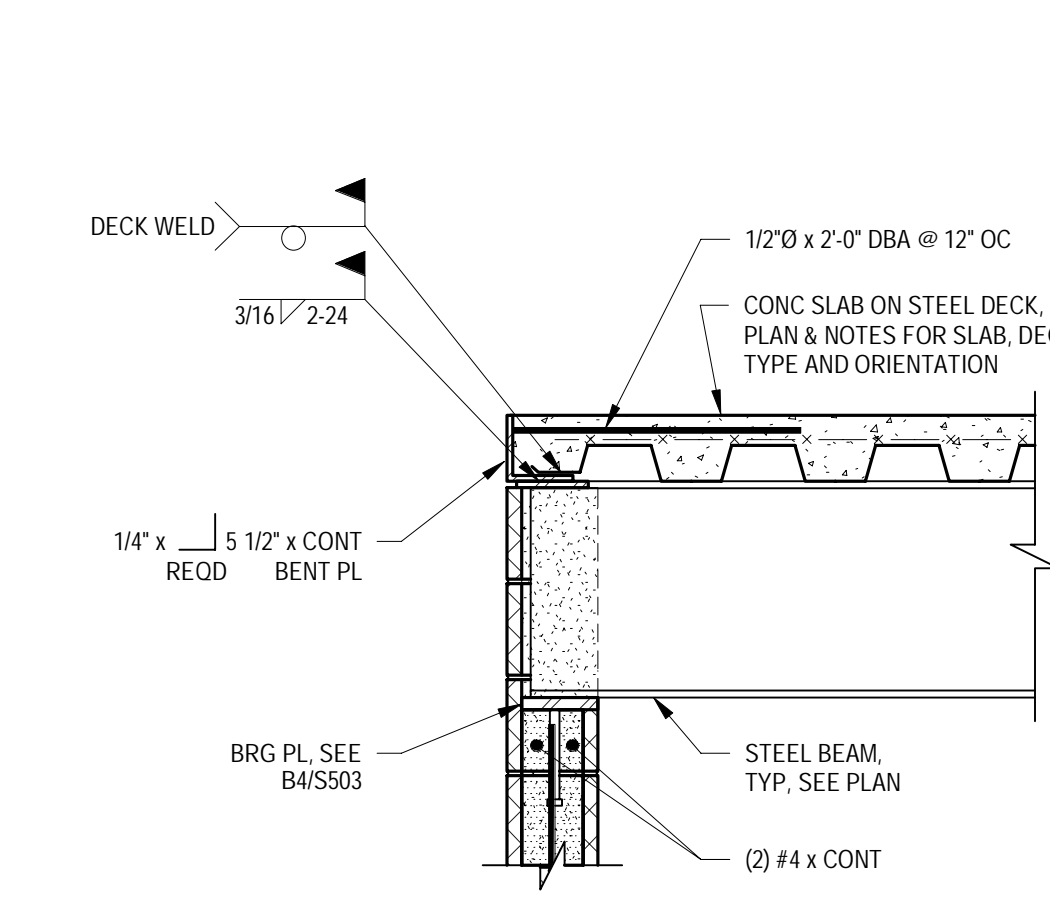
**C1 LEDGER ANGLE SPLICE**  
NO SCALE 4646\_01



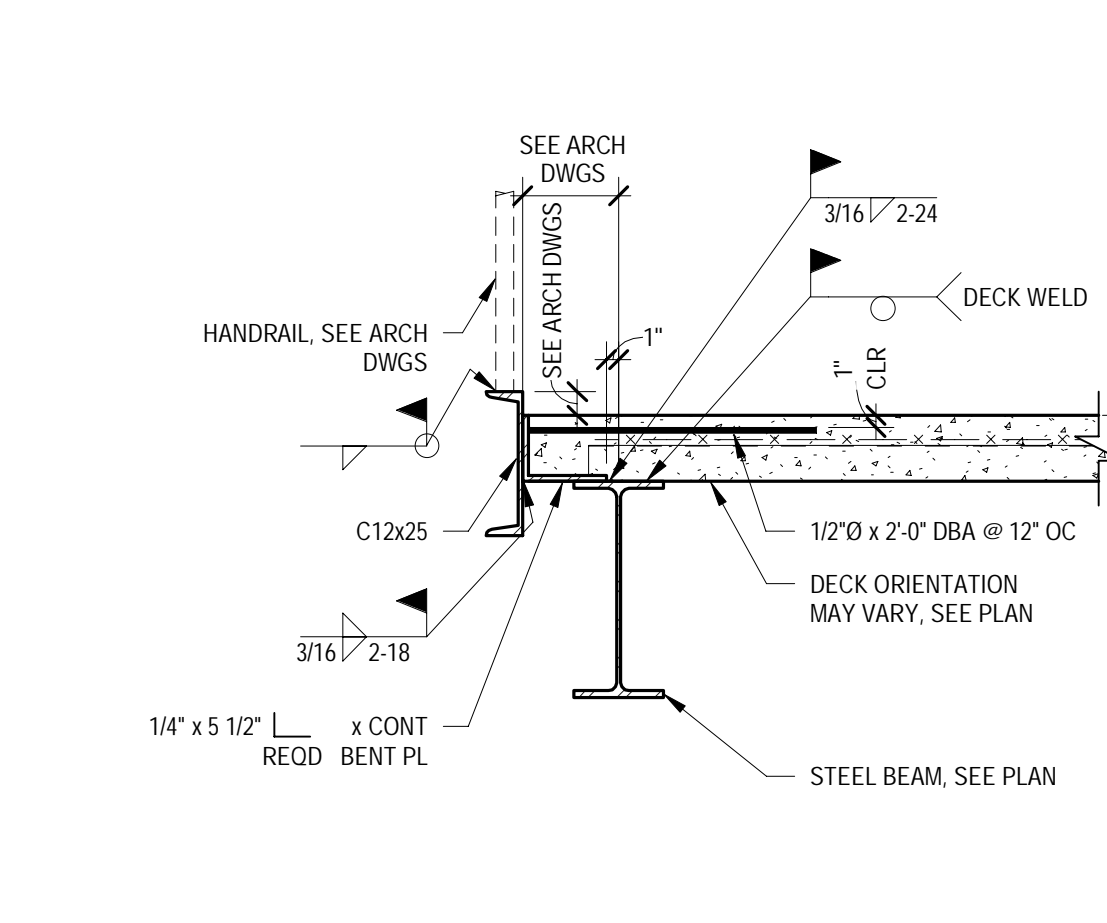
**C2** 3/4" = 1'-0" SC4436\_ZB



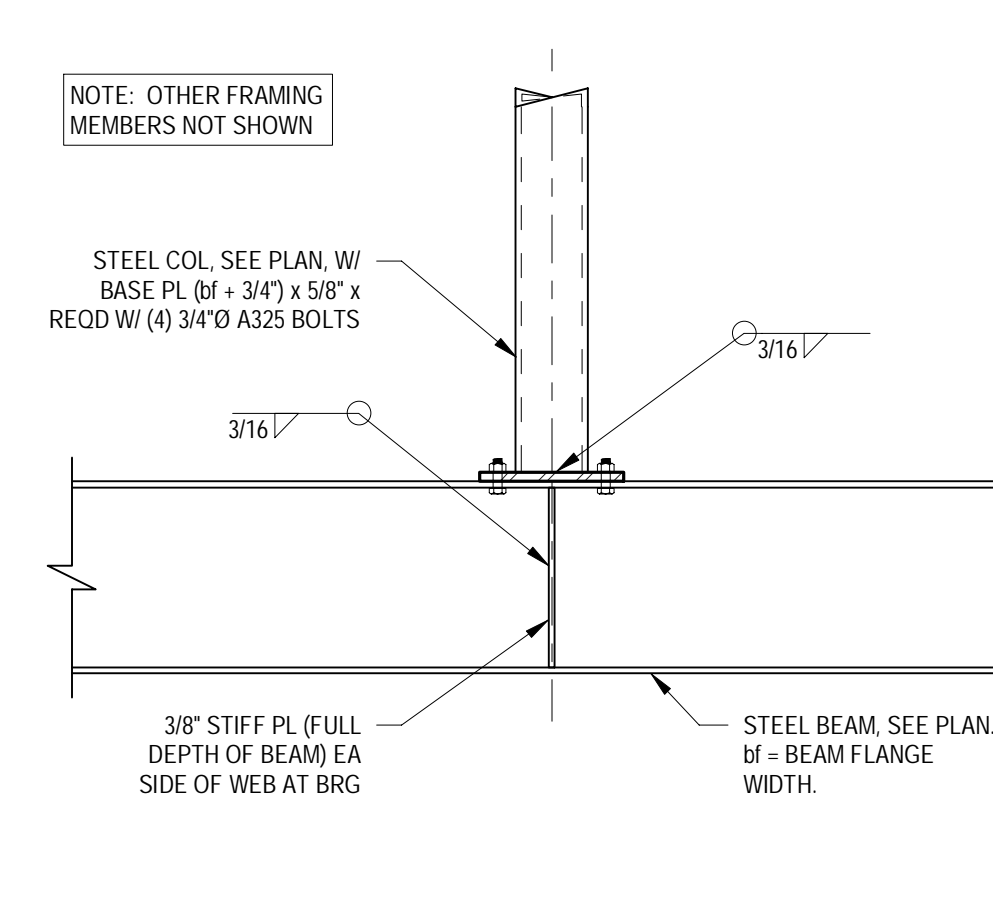
**C3 SLAB EDGE DETAIL**  
3/4" = 1'-0" SC4436\_G



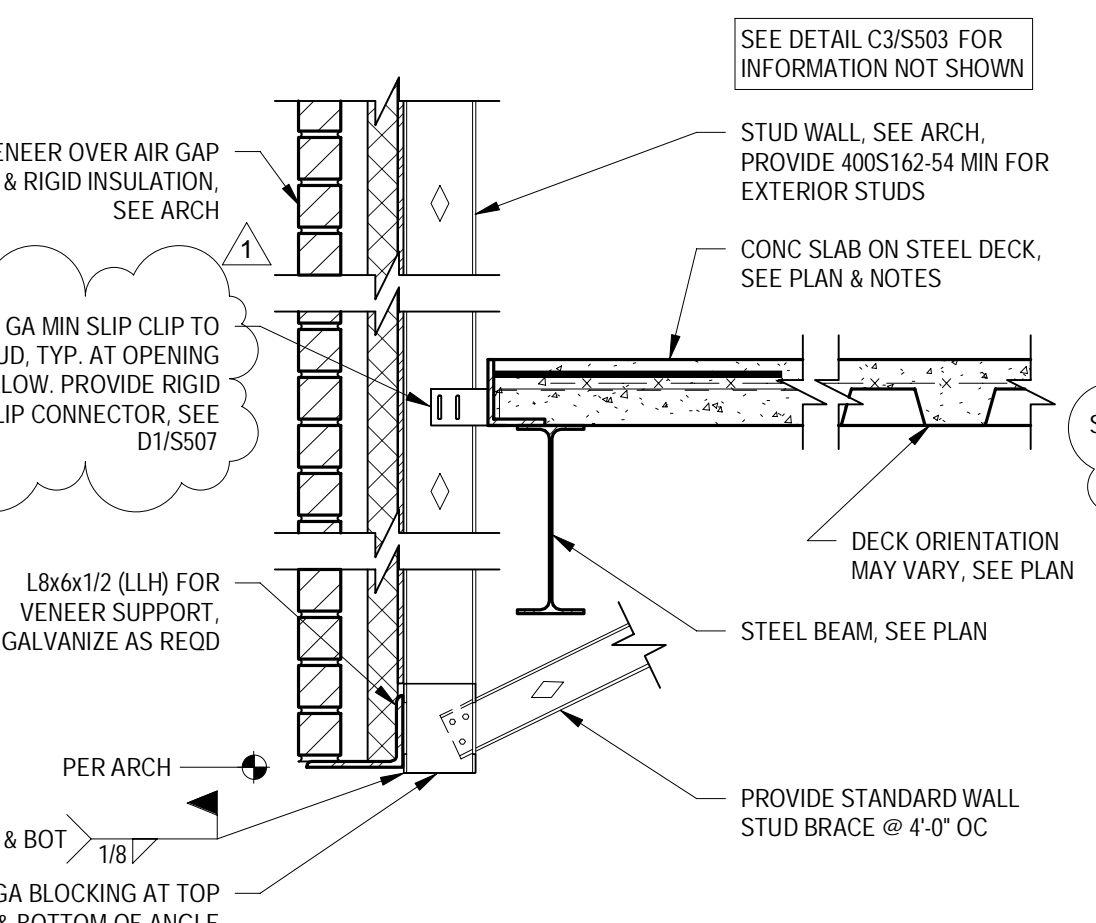
**C4** 3/4" = 1'-0" SC5244\_H



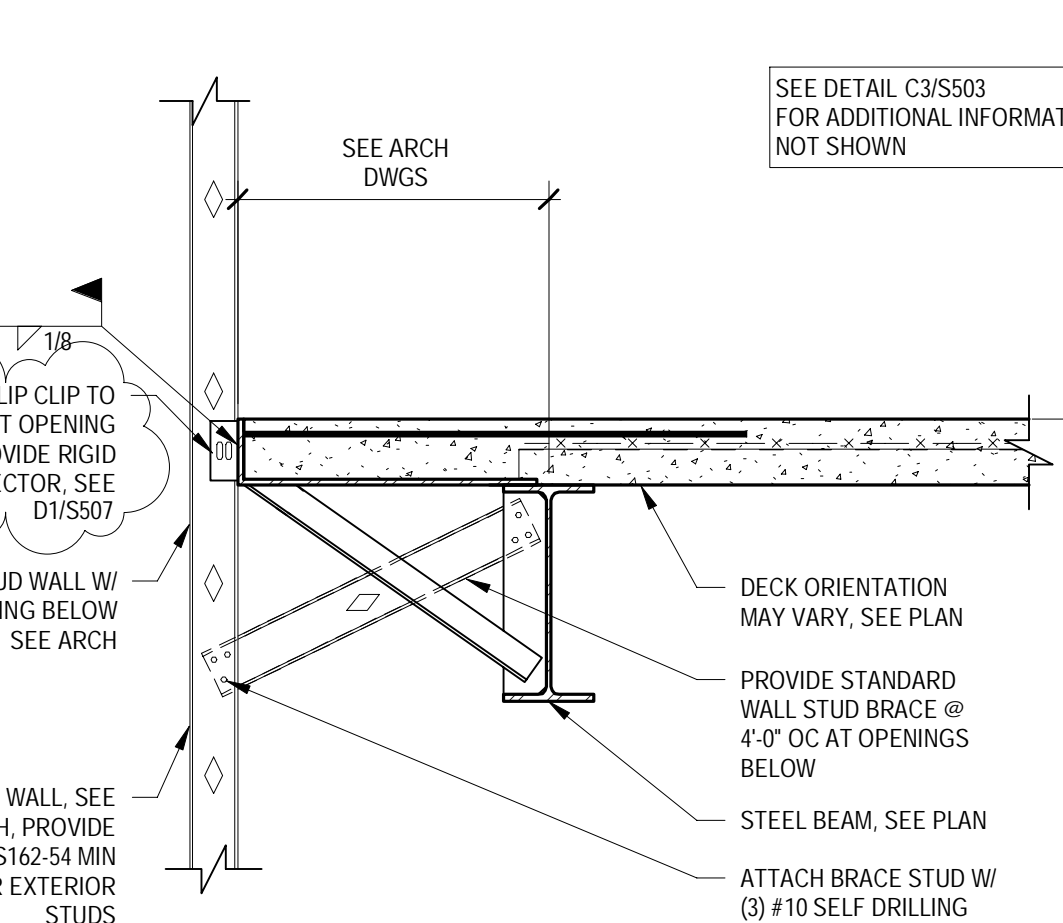
**C5 SLAB EDGE W/ HANDRAIL DETAIL**  
3/4" = 1'-0" SC4436\_E



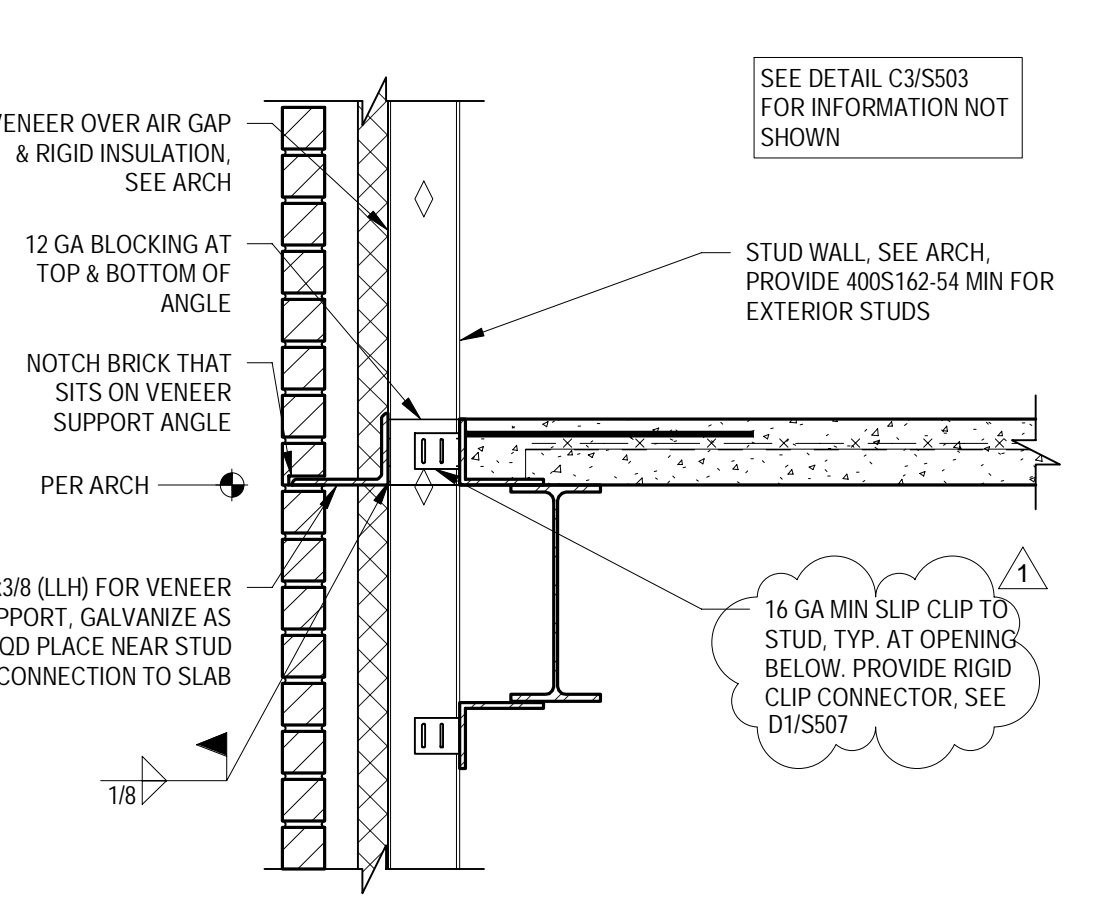
**C6** 3/4" = 1'-0" 4443\_01



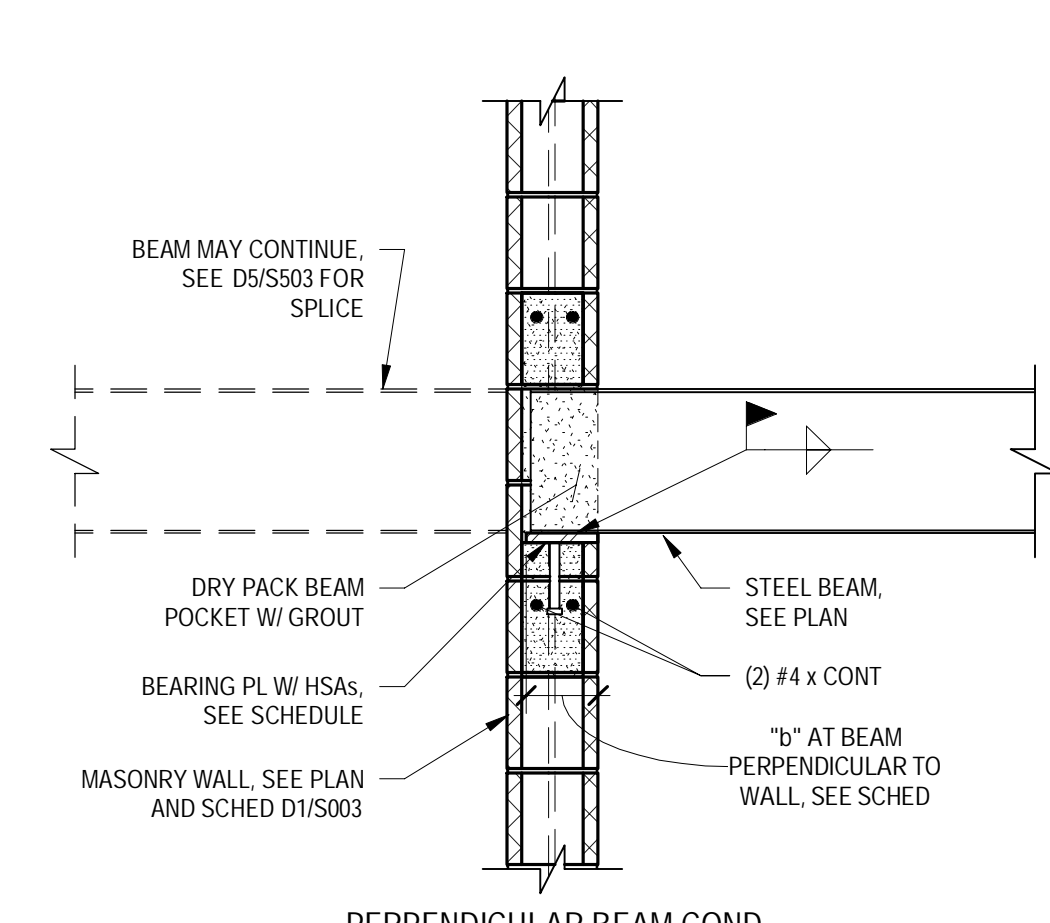
**B1** 3/4" = 1'-0" SC4436\_ZB



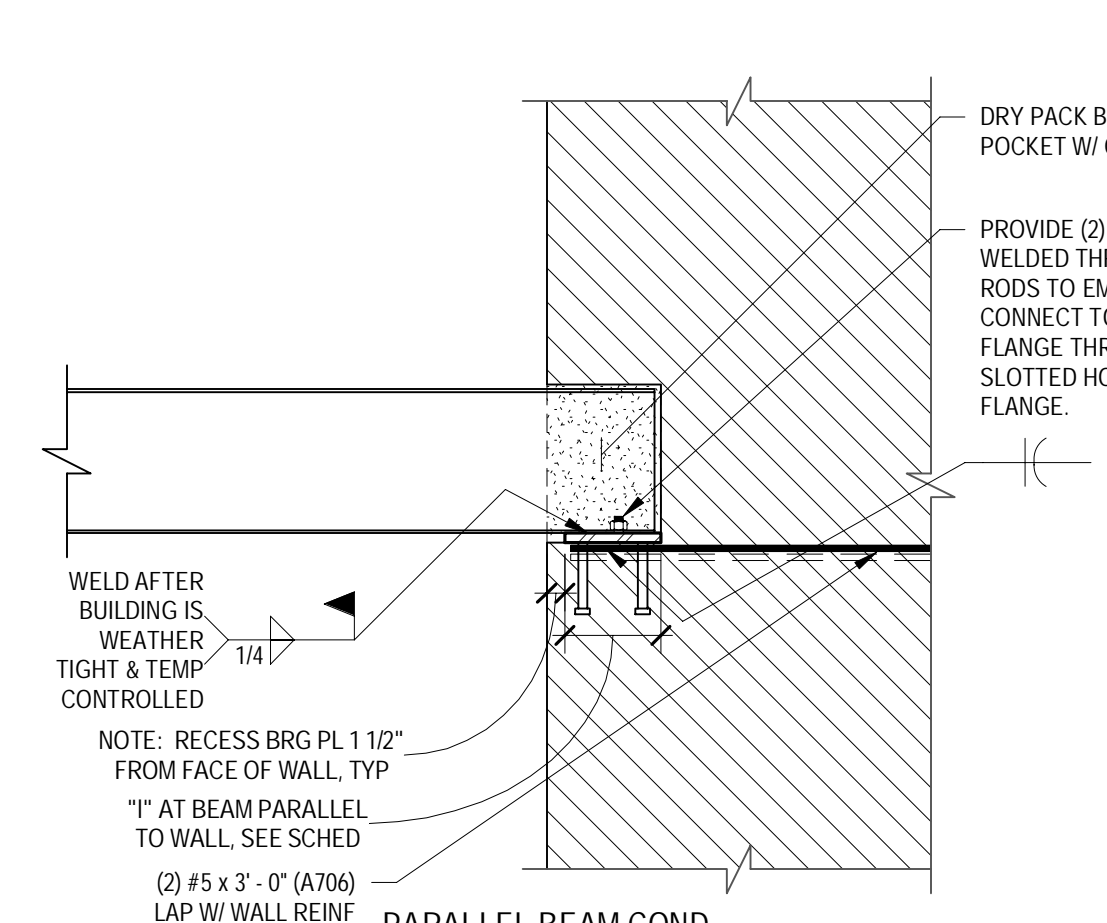
**B2** 3/4" = 1'-0" SC4436\_ZB



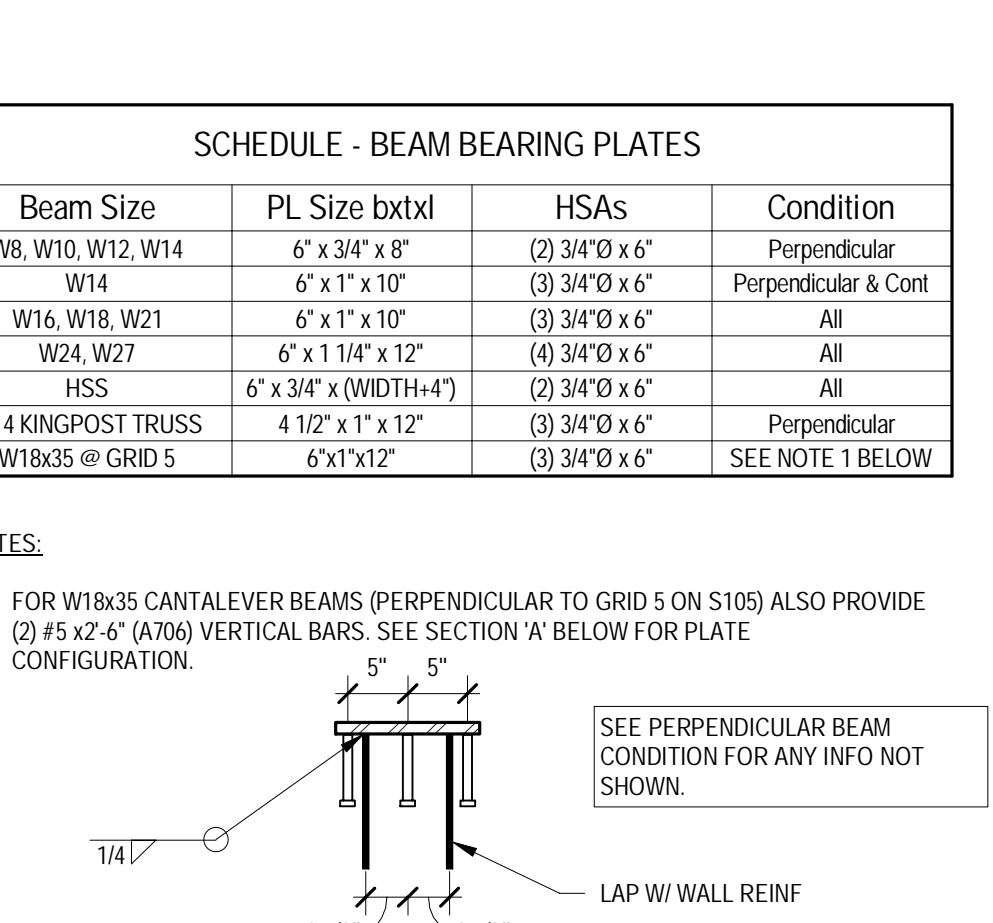
**B3** 3/4" = 1'-0" SC4436\_G



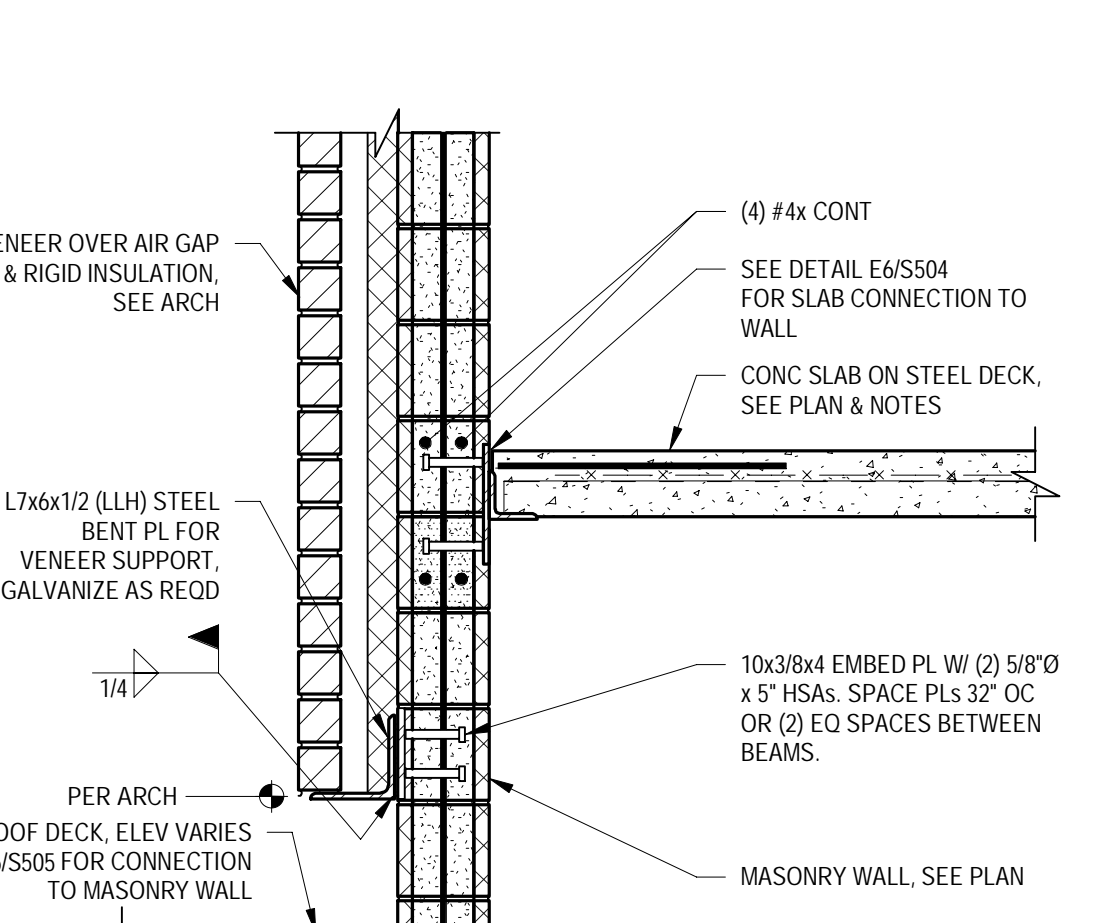
**B4 BEARING PLATE SCHEDULE**  
3/4" = 1'-0"



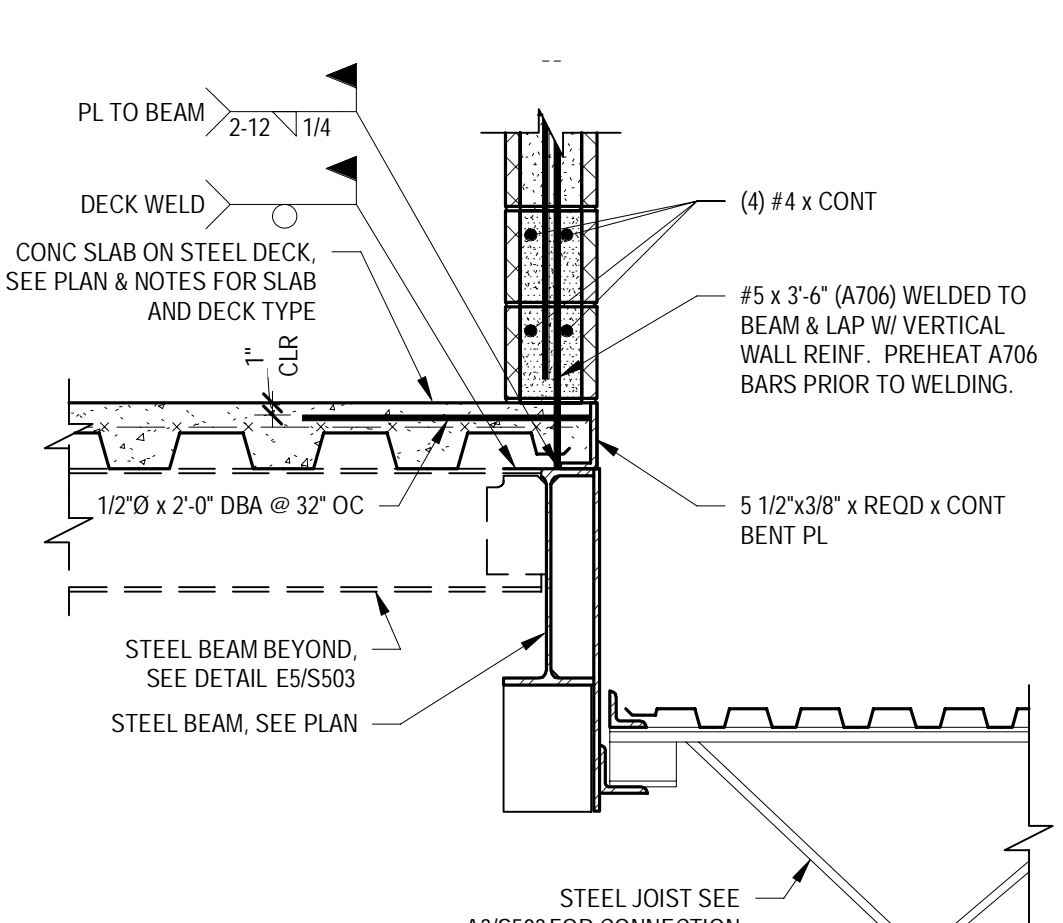
**C5 SLAB EDGE W/ HANDRAIL DETAIL**  
3/4" = 1'-0" SC4436\_E



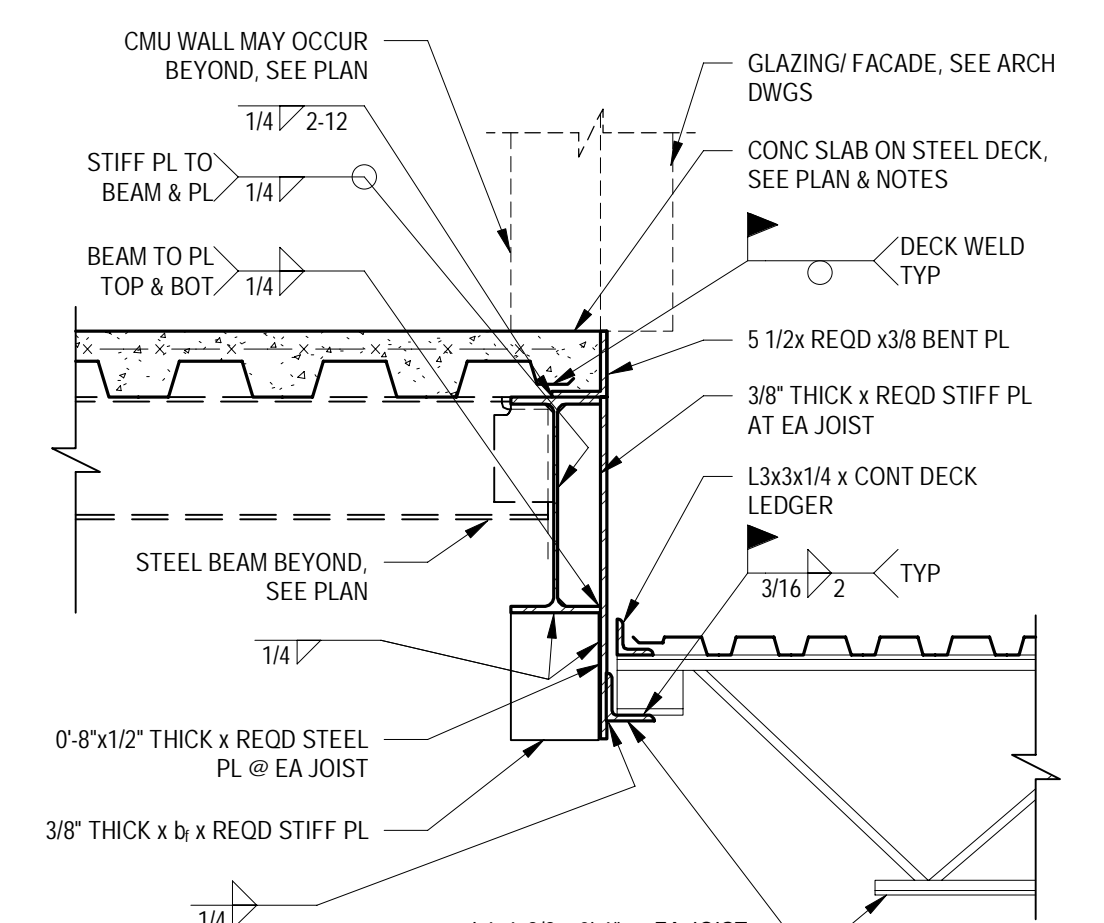
**C6** 3/4" = 1'-0" 4443\_01



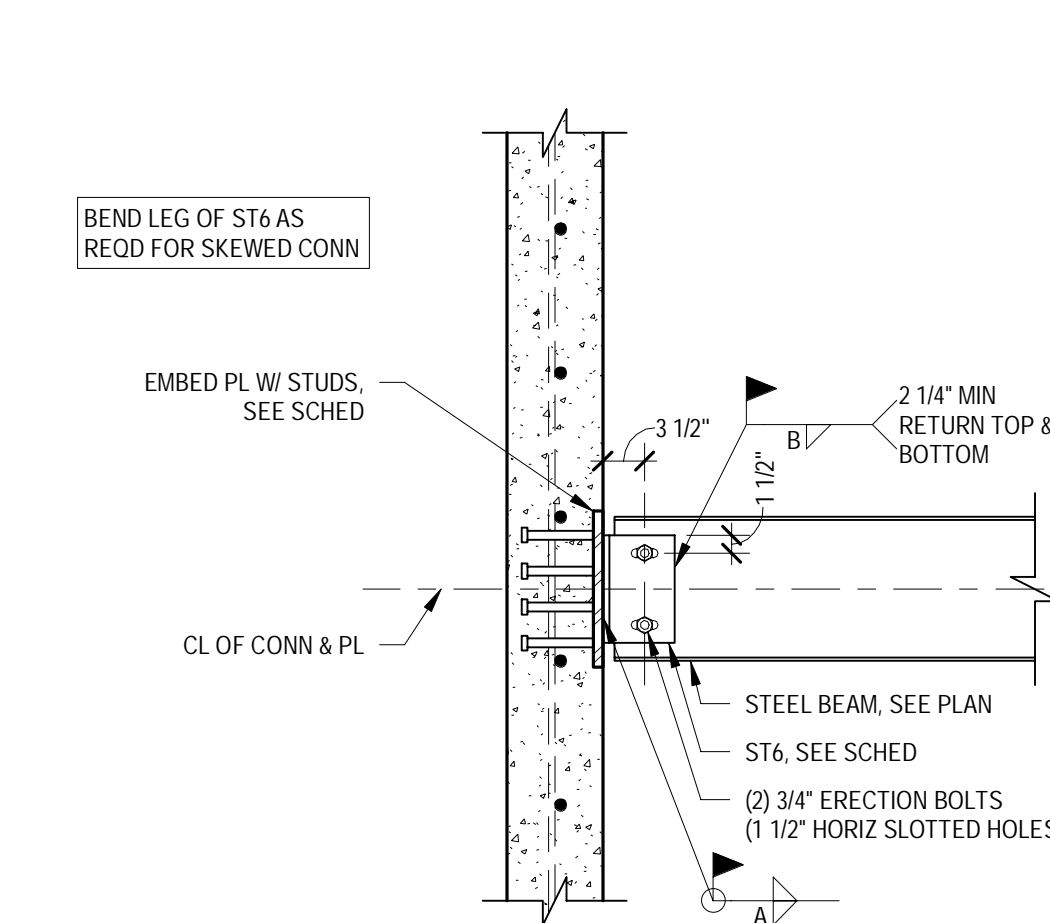
**A1** 3/4" = 1'-0" SC4436\_ZB



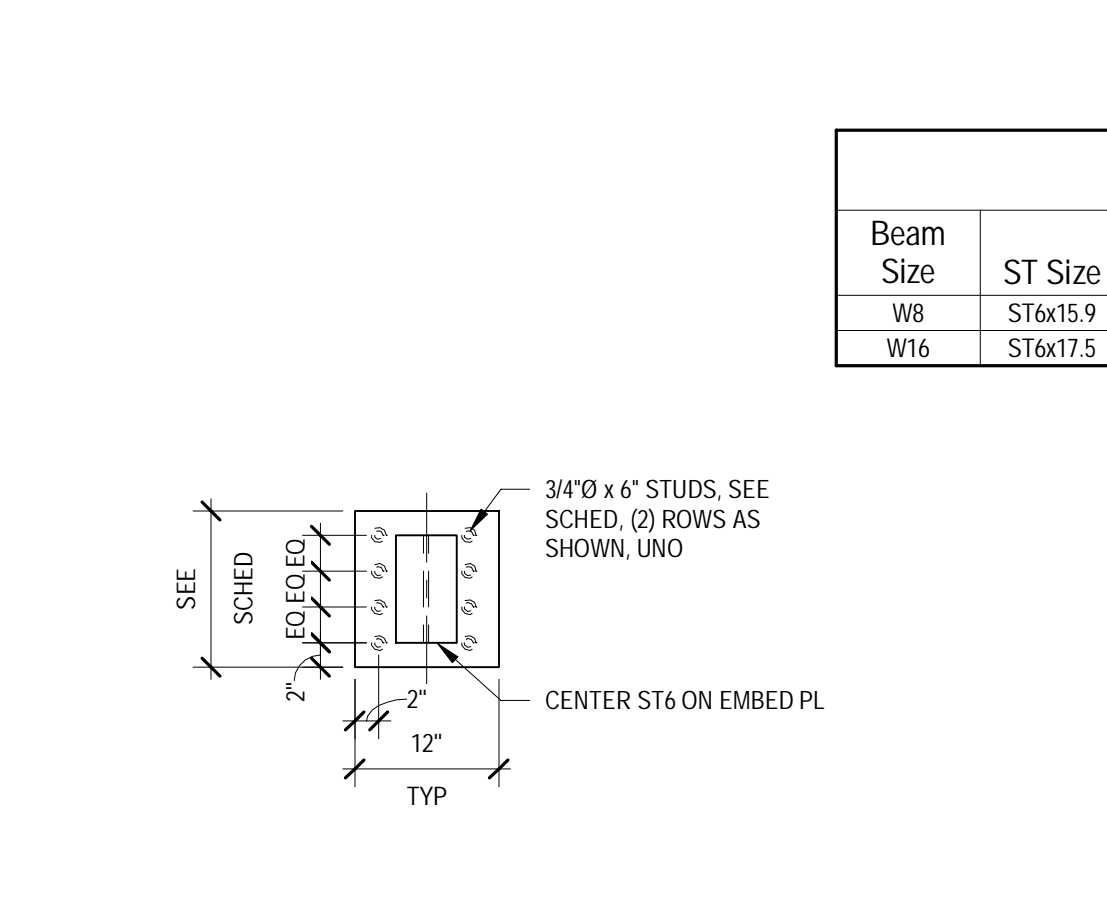
**A2** 3/4" = 1'-0" SC4452\_C



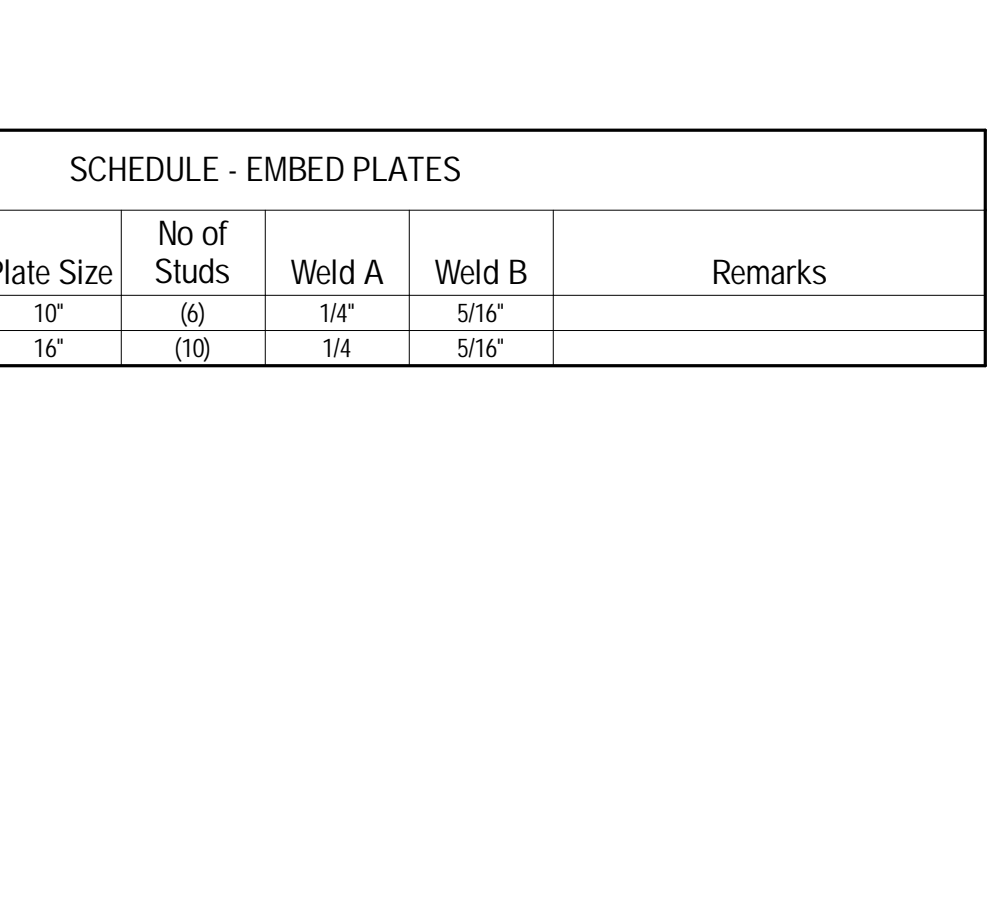
**A3** 3/4" = 1'-0" SC4436\_G



**A4 EMBED PLATE SCHEDULE**  
3/4" = 1'-0"

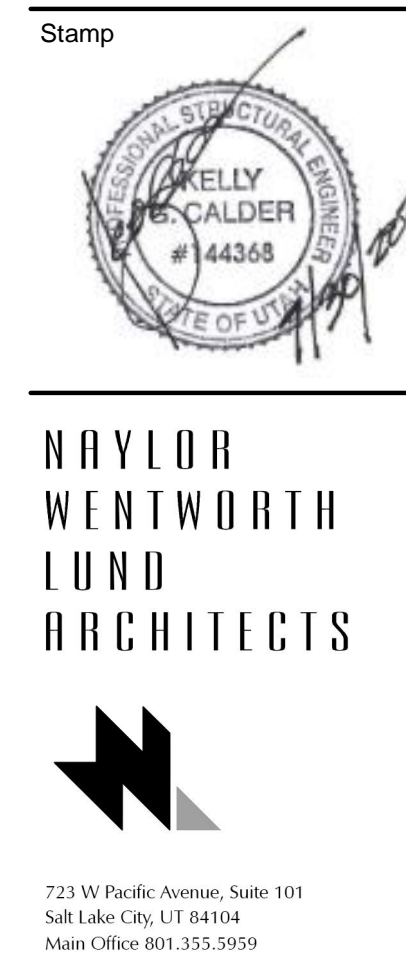
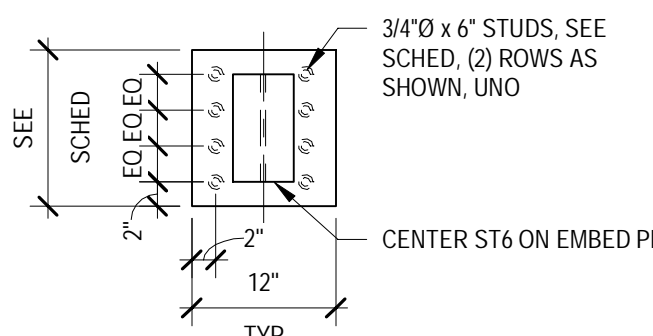


**C5 SLAB EDGE W/ HANDRAIL DETAIL**  
3/4" = 1'-0" SC4436\_E



**C6** 3/4" = 1'-0" 4443\_01

SCHEDULE - EMBED PLATES						
Beam Size	ST Size	ST Length	Plate Size	No of Studs	Weld A	Weld B
W8	ST6x15.9	6"	10"	(6)	5/16"	5/16"
W16	ST6x17.5	12"	16"	(10)	1/4"	5/16"



**NAYLOR WENTWORTH LUND ARCHITECTS**



**CALDER RICHARDS CONSULTING ENGINEERS**

Ogden School District  
1950 Monroe Blvd.  
Ogden, Utah 84401



**OGDEN SCHOOL DISTRICT**

Project For  
**The Ogden School District Board of Education**

T.O. Smith  
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3295 Gramercy Ave  
Ogden, Utah 84403

Project Phase  
**Bid Documents**

Revision Schedule		
No.	Description	Date
1	Addendum 1	08/13/20

Project Number  
**143.004**

Project Issue Date  
**30 July 2020**

Sheet Title  
**Structural Details**

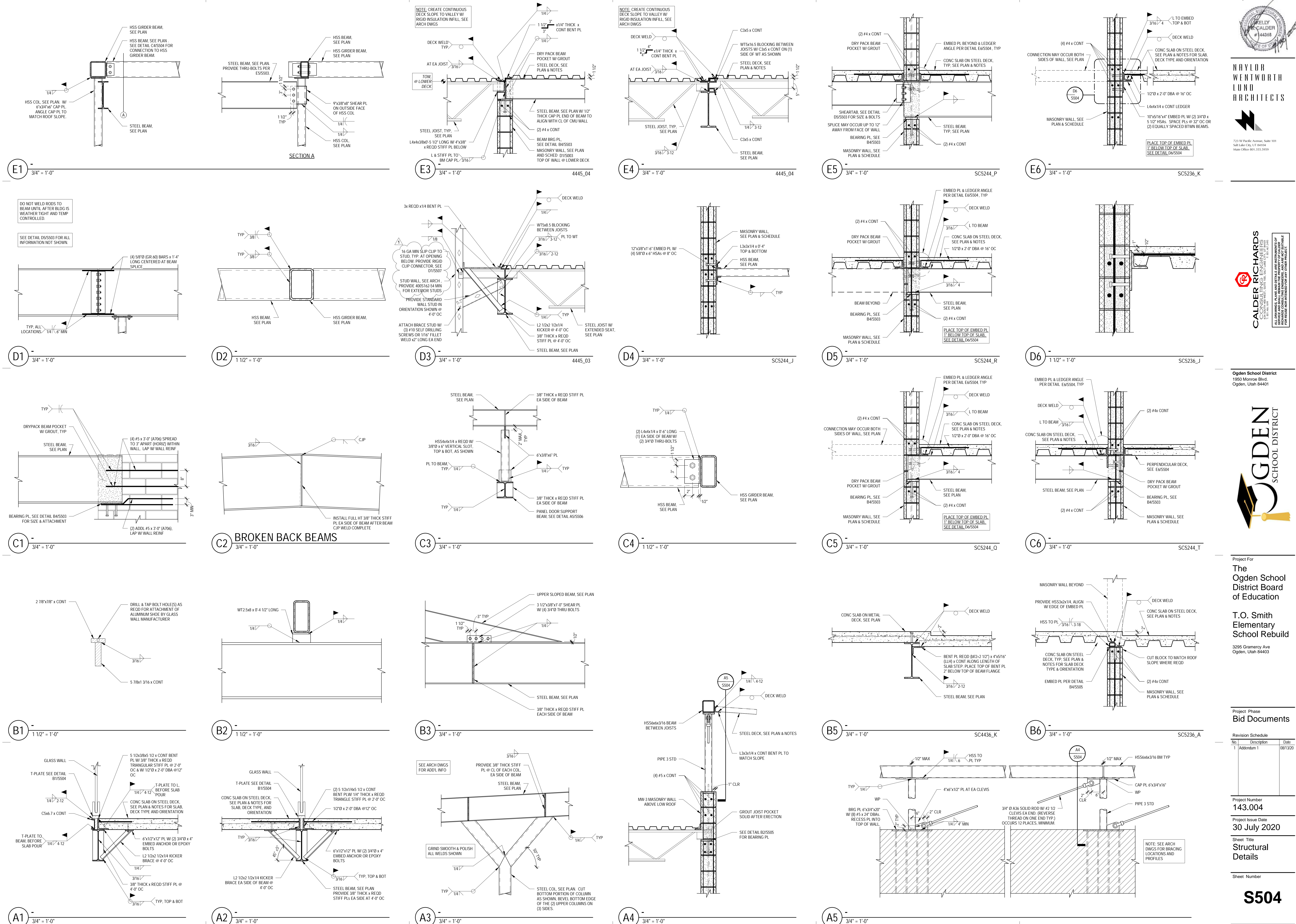
Sheet Number

**S503**

4412\_02



8/13/2020 11:30:41 AM\BW 320/TO Smith\S20 - TO Smith Elementary.rvt



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Ogden, Utah 84401



Project For  
**The Ogden School District Board of Education**

**T.O. Smith Elementary School Rebuild**

3295 Gramercy Ave  
Ogden, Utah 84403

Project Phase  
**Bid Documents**

Revision Schedule		Date
No.	Description	
1	Addendum 1	08/13/20

Project Number  
**143.004**

Project Issue Date  
**30 July 2020**

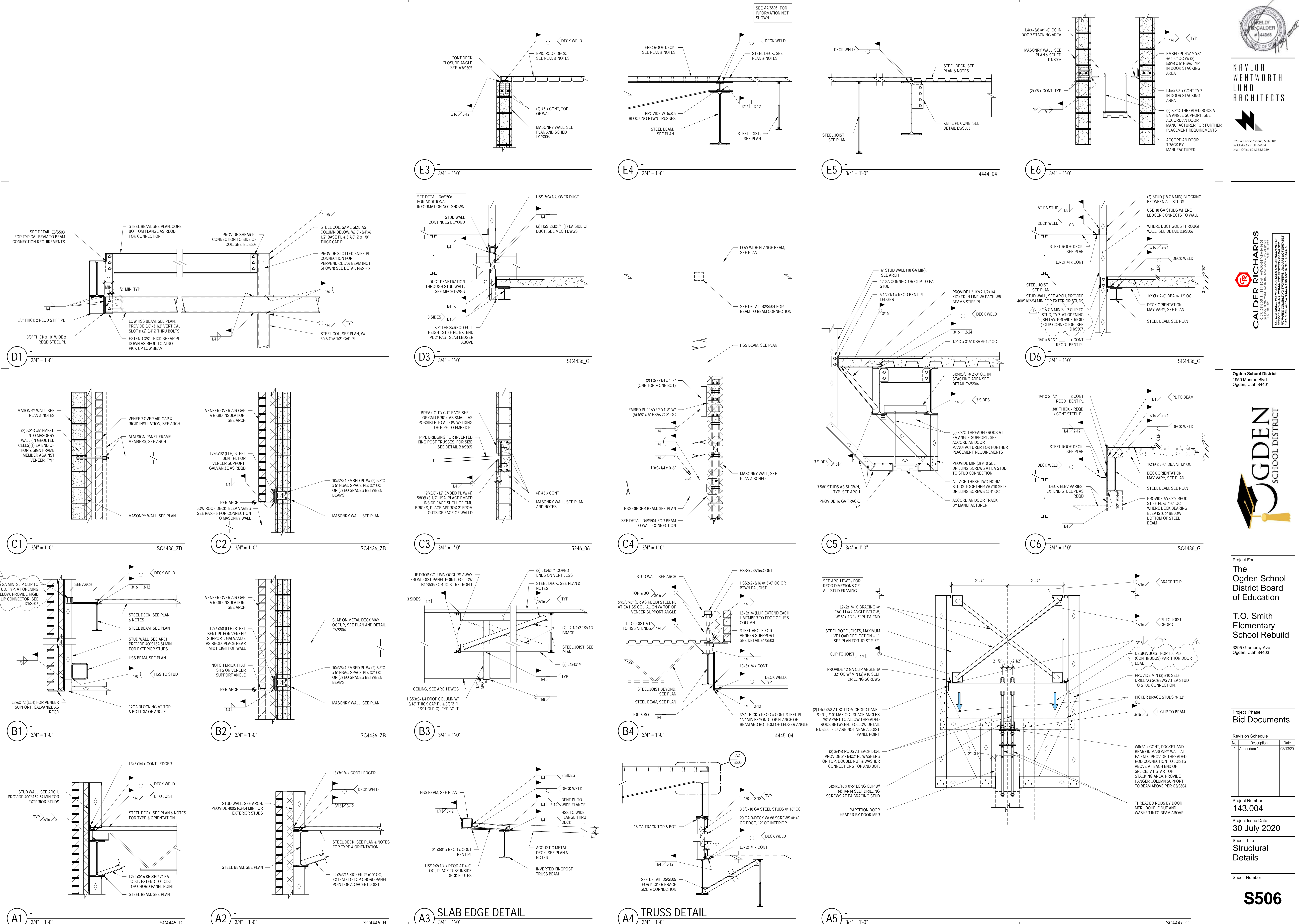
Sheet Title  
**Structural Details**

Sheet Number

**S504**



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**ADDENDUM NO: 01**

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**DATE:** August 13, 2020  
**NWL PROJECT No:** 143.004  
**PROJECT:** T.O. Smith Elementary Rebuild  
**OWNER:** Ogden School District  
Ogden, Utah



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THE ITEMS LISTED IN THIS **ADDENDUM NO: 01** WILL BECOME PART OF THE GENERAL CONTRACT AND WILL BE INCLUDED IN THE APPROPRIATE DRAWING OR SPECIFICATION SECTION AS NOTED UNDER EACH OF THE FOLLOWING ITEMS.

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**MECHANICAL**

**SPECIFICATIONS:**

**SECTION 220900**

1. 220000-1.1.C PLUMBING FIXTURES – Revise as follows:
  - A. WC-1 flush valve shall be Zurn sensor 1.6 ZER6200-CPM battery powered flush valve.
  - B. L-1 faucet shall be Moen 8886 2-handle ADA metering faucet.
  - C. L-2 faucet shall be Moen 8886 2-handle ADA metering faucet.
  - D. S-2 faucet shall be Moen 8792 minus spray.
2. 220700-4.31.1.E - Revise as follows
  - A. Delete paragraph 'E'
3. 230900-4.1.9 PIPE JOINING - Revise as follows:
  - A. All steel pipe under 2" in size shall be joined by screwed connections. Heating hot water and condenser (chilled) water piping shall be welded if pipe size is over 2".

**Approved Manufacturers' Products:**

The following manufacturers, trade names, and products are approved with the provision that they shall completely satisfy all and every requirement of the Drawings, Specifications, and all Addenda, and shall conform to the design, quality, and standards specified, established, and required for the complete and satisfactory installation and performance of the building and all its respective parts.

**PRODUCT**

**MANUFACTURER**

Cooling Tower Filter	PEP-Amiad
Fin Tube Radiation	Rittling
Hot Water Unit Heaters	Rittling
Circuit Setters	Flow Design, Bell & Gossett
Test Plugs	Terice
Flow Venturis	Flow Design
Strainers	Titan
Check Valves	Titan
Thermometers	Miljoco
Pressure Gauges	Miljoco
Expansion Joints/Loops	Twin City Hose
Flexible Connectors	Twin City Hose, Metraflex
Vibration Isolation	Kinetics
Seismic Services	Seismic Restraint Systems (SRS)
Packaged Rooftop Units	Allied
Boiler Stacks	Metal Fan
Electric Unit Heaters	Berko
VAV Re-Heat Boxes	Tuttle & Bailey
Registers, Grilles, Diffusers	Tuttle & Bailey
Louvers	Air Rite, United Enertech
Roof Hoods	Air Rite, Penn Barry
Roof Penthouse	Western Vents
Sound Traps	Price Industries
Flexible Duct	JPL
Fire Dampers	United Enertech
Fire/Smoke Dampers	United Enertech
Manual Dampers	United Enertech, Air Rite
HET Fittings	Hercules

Domestic Water Heaters	Laars, Lochinvar, PVI
Domestic Hot Water Storage Tanks	Laars, Lochinvar, PVI
Domestic Expansion Tanks	Elbi
Water Closets	Sloan
Urinals	Sloan
Lavatorys	Sloan
Drinking Fountains	Oasis, Murdock
Flush Valves	American Standard
Shower Trim	American Standard, Acorn
Stainless Steel Sinks	American Standard
Emergency Fixtures	Acorn
Tempering Valves	Acorn
Trench Drains	Watts, Mifab
Ice Maker Box	LSP
Washer Box	LSP
Fixture Stops & Supplies	LSP
Cleanouts	Mifab
Trap Primers	Mifab
Trap Guards	Mifab
Toilet Seats	American Standard
Fixture Carriers	Mifab
Traps & Supplies	McGuire

**DRAWINGS:**

**Sheet M601:**

1. Detail 6/M601:
  - a. Heating supply & return piping to individual boilers shall be 4". Reference detail 8/M606.

**Sheet M605:**

1. Detail 4/M605:
  - a. Reference sheet M404 Mechanical Room B227 for relief air connection to AHU-4.
  - b. Relief air connection shall be from back of AHU-4 to allow connection to louver L-4.

**Sheet P201:**

2. Mechanical Room A201:
  - a. Provide (2) FD-2 floor drains at location noted with note #13..
  - b. 3" waste shall be run from each floor drain to a combined 3" line that drops near grids H & 3. See enlarged waste/vent plan P401 note #25 for continuation.

**END OF ADDENDUM 01**



## ELECTRICAL ADDENDUM # 1

**To:** Justin Nye, AIA

**From:** Scott Kingery

**Company:** NWL Architects

**Phone:** 801.355.5959

**Date:** August 13, 2020

**Project** TO Smith Elementary – Rebuild

**Project #:** 2019-179

The following are addendum changes to the electrical drawings:

### **Bidding Questions:**

*Can Cutler Hammer be approved to bid and supply their electrical gear across the board? They are approved for panels but not magnetic starters. Please review and approve them for their typical full gear package.*

Yes, Cutler Hammer is approved to bid the complete Gear Package.

*Section 26 3200 alternate number 2 lists Creative Energies, 405 watt module LG405N2W-V5 for the solar alternate. Is the intention of alternate #2 to use the LG 405 watt module or is it to use the contractor Creative Energies as the sole sourced installer?*

Alternate #2 is for the Creative Energies PV Modules in lieu of Sunpower Helix. See Alternate Descriptions and Requirements in the Architectural Specifications. Creative Energies is an approved installer, See Specification 26 3200 Section 2.2(A)(1).

### **SPECIFICATIONS:**

Section 27 1100 – Communication Room Equipment Fittings, 27 1300 - Communications Backbone Cabling, 27 1500 - Communications Horizontal Cabling

1. Add ARCO Electric to the approved supplier / installers.

### **PRODUCT APPROVALS:**

Pending compliance to all specified requirements, the following manufacturers are approved to bid this project in addition to those shown on the electrical drawings or the electrical specifications. Approval does not relieve the contractor of fulfilling all specified requirements regardless of what is contained in the prior approval packages submitted by various lighting agencies to the electrical engineer. Light fixtures specified on drawings shall be considered basis-of-design products; all light fixtures approved by addendum shall be equivalent in every respect to those currently specified on the drawings. Non-compliance to these requirements may later result in disapproval in which case the contractor shall be required to provide specified products at no additional cost to the Owner:

### **Lighting Fixtures:**

<u>Type</u>	<u>Manufacturers</u>				
A13	Lithonia	Visionaire	Beacon	McGraw-Edison	Deco
A13A	Lithonia	Visionaire	Beacon	McGraw-Edison	Deco
A15	Lithonia	Visionaire	Beacon	McGraw-Edison	Deco
AW1	Lithonia	Williams	Hubbell	Lumark	Crystal
CR1	Lithonia	Williams	Columbia	Metalux	Alphalite
CR2	Lithonia	Williams	Columbia	Metalux	Alphalite

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info@envisioneng.com  
**EMAIL**





CR3	Lithonia	Williams	Columbia	Metalux	LA Lighting
DL1	Lithonia	Williams	Liton	Halo	Peachtree
DL2	Lithonia	Williams	Liton	Halo	Peachtree
DLS	Lithonia	Williams	Liton	Halo	Peachtree
F1	Lithonia	Williams	Columbia	Metalux	LA Lighting
FP	Lithonia	Gardco	Hubbell	Lumark	
GA1	Lithonia	Williams	Columbia	Metalux	LA Lighting
GA2	Lithonia	Williams	Columbia	Metalux	LA Lighting
GA3	Lithonia	Williams	Columbia	Metalux	LA Lighting
GA4	Lithonia	Williams	Columbia	Metalux	LA Lighting
GA21	Lithonia	Williams	Columbia	Metalux	LA Lighting
GID1	Lithonia	Williams	Columbia	Metalux	Alphalite
GID2	Lithonia	Williams	Columbia	Metalux	Alphalite
GID3	Lithonia	Williams	Columbia	Metalux	Alphalite
GID4	Lithonia	Williams	Columbia	Metalux	Alphalite
HB1	Lithonia	Williams	Columbia	Metalux	LA Lighting
LL1	Kelvix	Omnilight	Acolyte	Q-Tran	Twice Bright
P1	OCL – Contractor Allowance \$445.00 (each)				
P2	Spectrum – Contractor Allowance \$390.00 (each)				
PD1	Mark	Pinnacle	Litecontrol	Neo-Ray	Lumato
PD2	Mark	Pinnacle	Litecontrol	Neo-Ray	Lumato
RL1	Mark	Pinnacle	Litecontrol	Neo-Ray	Day-O-Lite
RL2	Mark	Pinnacle	Litecontrol	Neo-Ray	Day-O-Lite
RL3	Mark	Pinnacle	Litecontrol	Neo-Ray	Day-O-Lite
ST1	ETC	Vari Lite	Altman	Chauvet	
SW1	Lithonia	Williams	Columbia	Metalux	Alphalite
SW2	Lithonia	Williams	Columbia	Metalux	Alphalite
SW3	Lithonia	Williams	Columbia	Metalux	Alphalite
VL	Lithonia	Stonco	Hubbell	Lumark	Duraguard
X1	Lithonia	Emergensee	Duallite	Evenlite	Exitronix
X2	Lithonia	Emergensee	Duallite	Evenlite	Exitronix
X3	Lithonia	Emergensee	Fortezza	Evenlite	Exitronix

Approved Lighting Controls – nLight (basis of design), Wattstopper and Lutron (Wired Only)

**DRAWINGS:**

**Sheet EL101 – Area A1 – Lighting Plan**

1. Add additional switching for Collaboration and Corridor.
2. See attached sheet.

**Sheet EL102 – Area B1 – Lighting Plan**

1. Add additional switching for Collaboration and Corridor.
2. See attached sheet.

**Sheet EL201 – Area A2 – Lighting Plan**

1. Add additional switching for Collaboration and Corridor.
2. See attached sheet.

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**EMAIL**



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Sheet EL202 – Area B2 – Lighting Plan

1. Add additional switching for Collaboration and Corridor.
2. See attached sheet.

Sheet EL601 – Light Fixture Schedule

1. Fixture F1 – Change lumen output from 2,000 to 3,000.

Sheet EP101 – Area A1 – Power Plan

1. Add an additional data location in Counselor A164.
2. See attached sheet.

Sheet EP102 – Area B1 – Power Plan

1. Add an additional data location in Faculty Lounger B102.
2. See attached sheet.

Sheet EY101 – Area A1 – Systems Plan

1. Remove Door Position Switches from the Access Controlled Doors.
2. Add Door Controls to Office / Conf A150.
3. Update door controls Reception A157.
4. See attached sheet.

Sheet EY102 – Area B1 – Systems Plan

1. Remove Door Position Switches from the Access Controlled Doors.
2. See attached sheet.

Sheet EY202 – Area B2 – Systems Plan

1. Remove Door Position Switches from the Access Controlled Doors.
2. Update door controls Flex Learning Studio B202.
3. See attached sheet.

Sheet EY703 – Area A1 – Systems Plan

1. Update Access Control Door Matrix.
2. See attached sheet.

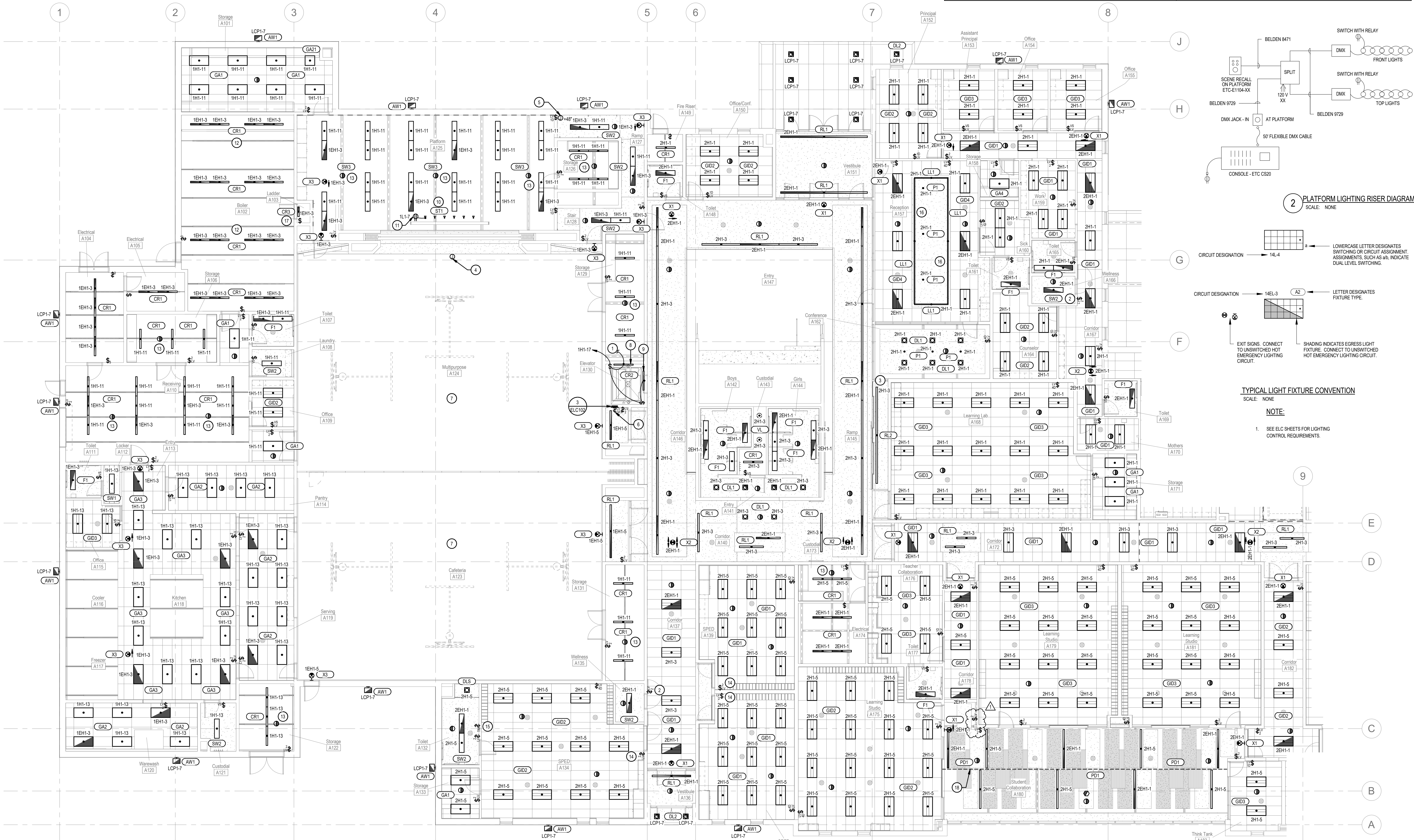
**End of Electrical Addendum #1**

**LIGHTING GENERAL NOTES:**

1. REFER TO ELC SHEETS FOR TYPICAL CONTROL WIRING DIAGRAMS. PROVIDE COMPLETE SYSTEM WITH ALL REQUIRED CONDUIT, WIRING, SWITCHES, SENSORS, POWER PACK, ETC.
2. LOCATE POWER PACKS AND ROOM CONTROLLERS ABOVE ACCESSIBLE CEILING NEAR ROOM ENTRANCES.
3. CONFIRM ALL LOCATIONS OF LIGHT FIXTURES WITH ARCHITECT PRIOR TO INSTALLATION.

**KEY NOTES:**

1. UP TO LIGHT ABOVE.
2. LIGHT SWITCH FOR WELLNESS ROOM.
3. DISPLAY CASE LIGHTS TO SWITCH WITH CORRIDOR LIGHTS.
4. DMX JACK-IN. MOUNT NEXT TO POWER AND DATA. SEE EP101 FOR POWER AND DATA LOCATION. SEE RISER 2/EL101 FOR ADDITIONAL INFORMATION.
5. SCENE RECALL STATION. CONFIRM EXACT MOUNTING LOCATION WITH OWNER. SEE RISER 2/EL101 FOR ADDITIONAL INFORMATION.
6. LOCATE IN SWITCHING CABINET.
7. LIGHTING IN THIS ROOM SHALL FUNCTION AS STANDALONE WHEN THE PARTITION DOOR IS CLOSED. WHEN THE PARTITION DOOR IS OPEN, BOTH ROOMS SHALL FUNCTION AS ONE ROOM. PROVIDE ALL REQUIRED POWER PACKS, CONTROLLERS, DOOR SENSORS, AND DEVICES AS NECESSARY FOR A COMPLETE AND WORKING SYSTEM. CONFIRM ALL DIMMING AND SCENES WITH THE OWNER PRIOR TO PROGRAMMING ROOMS. FULL ROOM CONTROL TO BE CONTROLLED BY THE GFA SWITCH.
8. LIGHT FIXTURE FOR ELEVATOR EQUIPMENT. CONFIRM EXACT MOUNTING LOCATION WITH THE ELEVATOR INSTALLER PRIOR TO ANY ROUGH-IN.
9. LIGHT FIXTURE FOR ELEVATOR SHAFT. CONFIRM EXACT MOUNTING LOCATION WITH THE ELEVATOR INSTALLER PRIOR TO ANY ROUGH-IN.
10. PROVIDE RIGID PIPE CLAMP MOUNT FOR STAGE LIGHT FIXTURES. SEE ARCHITECTURAL DRAWINGS FOR PIPE REQUIREMENTS. COORDINATE MOUNTING REQUIREMENTS WITH FIXTURE SUPPLIER. SPACE LIGHT FIXTURES PER SUPPLIER RECOMMENDATIONS. IF INSTALLED AS SHOWN, THE CONTRACTOR WILL RELOCATE AT NO ADDITIONAL COST TO THE OWNER.
11. MOUNT RECEPTACLE NEXT TO STAGE LIGHTS. SEE RISER 2/EL101.
12. ADJUST LIGHTS IN THIS AREA FOR MECHANICAL EQUIPMENT, PIPING AND DUCTWORK. ADJUST LIGHTING TO ADEQUATELY LIGHT THE ROOM AND SPACES AROUND THE EQUIPMENT.
13. MOUNT OCCUPANCY SENSOR ON BOTTOM OF TRUSS SO SENSOR HAS A CLEAR VIEW OF THE ROOM. COORDINATE MOUNTING REQUIREMENTS WITH THE LIGHTING CONTROLS SUPPLIER PRIOR TO ROUGH-IN.
14. PROVIDE COVER ON THIS LIGHT SWITCH TO PREVENT TAMPERING.
15. LIGHTING CONTROLS FOR SHOWER.
16. MOUNT LL1 LIGHT FIXTURE IN COVE ABOVE. COORDINATE LOCATION AND MOUNTING WITH THE ARCHITECT PRIOR TO ROUGH-IN.
17. MOUNT ABOVE DOOR.
18. DAYLIGHT ZONE.

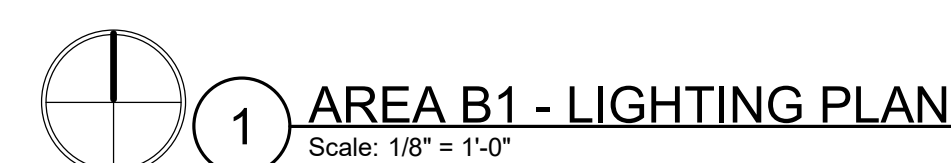




1. SEE ELC SHEETS FOR LIGHTING  
CONTROL REQUIREMENTS

1. REFER TO ELC SHEETS FOR TYPICAL CONTROL WIRING DIAGRAMS. PROVIDE COMPLETE SYSTEM WITH ALL REQUIRED CONDUIT, WIRING, SWITCHES, SENSORS, POWER PACK, ETC.
2. LOCATE POWER PACKS AND ROOM CONTROLLERS ABOVE ACCESSIBLE CEILING NEAR ROOM ENTRANCES.
3. CONFIRM ALL LOCATIONS OF LIGHT FIXTURES WITH ARCHITECT PRIOR TO INSTALLATION.

1. MOUNT ABOVE DOOR.
2. DAYLIGHT ZONE.





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Stamp



NAVLOH  
WENTWORTH  
LUND  
ARCHITECTS



723 W Pacific Avenue, Suite 101  
Salt Lake City, UT 84104  
Main Office 801.555.5619

#### LIGHTING GENERAL NOTES:

- REFER TO ELC SHEETS FOR TYPICAL CONTROL WIRING DIAGRAMS. PROVIDE COMPLETE SYSTEM WITH ALL REQUIRED CONDUIT, WIRING, SWITCHES, SENSORS, POWER PACK, ETC.
- LOCATE POWER PACKS AND ROOM CONTROLLERS ABOVE ACCESSIBLE CEILING NEAR ROOM ENTRANCES.
- CONFIRM ALL LOCATIONS OF LIGHT FIXTURES WITH ARCHITECT PRIOR TO INSTALLATION.

#### KEYED NOTES:

- PROVIDE WIRE GUARD ON THIS DEVICE.
- DOWN TO LIGHT BELOW.
- LIGHT SWITCH FOR WELLNESS ROOM.
- LIGHT FIXTURE FOR ELEVATOR SHAFT. CONFIRM EXACT MOUNTING LOCATION WITH THE ELEVATOR INSTALLER PRIOR TO ANY ROUGH-IN.
- PROVIDE RIGID PIPE CLAMP MOUNT FOR STAGE LIGHT FIXTURES. COORDINATE WITH FIXTURE SUPPLIER. SPACE LIGHT FIXTURES PER SUPPLIER RECOMMENDATIONS. IF INSTALLED AS SHOWN THE CONTRACTOR WILL RELOCATE AT NO ADDITIONAL COST TO THE OWNER.
- MOUNT RECEPTACLE NEXT TO STAGE LIGHTS. SEE RISER 2EL101.
- ADJUST LIGHTS IN THIS AREA FOR MECHANICAL EQUIPMENT, PIPING AND DUCTWORK. ADJUST LIGHTING TO ADEQUATELY LIGHT THE ROOM AND SPACES AROUND THE EQUIPMENT.
- MOUNT OCCUPANCY SENSOR ON BOTTOM OF TRUSS SO SENSOR HAS A CLEAR VIEW OF THE ROOM. COORDINATE MOUNTING REQUIREMENTS WITH THE LIGHTING CONTROLS SUPPLIER PRIOR TO ROUGH-IN.
- DISPLAY CASE LIGHTS TO SWITCH WITH CORRIDOR LIGHTS.
- COORDINATE MOUNTING OF EXIT SIGN WITH THE ARCHITECT PRIOR TO ANY ROUGH-IN. POWER WILL HAVE TO BE ROUTED THROUGH THE DOOR MULLION FROM THE FLOOR AND INTO THE EXIT SIGN.
- CONTRACTOR SHALL COORDINATE ALL CONDUIT ROUTING IN THIS SPACE WITH THE ARCHITECT PRIOR TO ANY ROUGH-IN. SEE ARCHITECTS DRAWINGS AND ARCHITECTURAL DETAIL 3C/A541. AT THE COMPLETION OF THE COORDINATION WITH THE ARCHITECT, ALL ROUGH-IN WORK SHALL BE RAN AT RIGHT OR PARALLEL ANGLES AS DISCUSSED AND SHALL BE INSTALLED IN A NEAT WORKMAN LIKE MANNER. IF THE CONTRACTOR FAILS TO COORDINATE WITH THE ARCHITECT, THE CONDUIT WILL BE REROUTED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER. ALL CONDUIT IN THIS SPACE SHALL BE GALVANIZED RIGID CONDUIT (GRC). ALL JUNCTION BOXES FOR THE LIGHT FIXTURES SHALL AS SHALLOW AS POSSIBLE AND SHALL BE RATED FOR 50 LBS MINIMUM. BOX SHALL BE SIZED TO ACCEPT A 3/4" GRC HUB. IF IT IS FOUND THAT EMT CONDUIT IS USED AND THE INCORRECT JUNCTION BOXES ARE USED, THEY WILL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER. NO EXPOSED CONDUIT OR CABLING WILL BE ALLOWED IN THIS SPACE.
- DAYLIGHT ZONE.
- COORDINATE INSTALLATION OF LIGHT LEVEL SENSOR AND OCCUPANCY SENSOR WITH THE ARCHITECT AND LIGHTING CONTROLS SYSTEM INSTALLER PRIOR TO ANY ROUGH-IN. SEE KEYED NOTE #11 FOR CONDUIT REQUIREMENTS.
- LOCATE POWER PACKS (NORMAL AND EMERGENCY) FOR LIGHTING CONTROLS IN A READILY ACCESSIBLE LOCATION IN THE ELECTRICAL ROOM THAT SERVES THE LIGHTS. LABEL POWER PACKS TO INDICATE BRANCH CIRCUIT, AREA AND LIGHTING SERVED.
- PROVIDE OCCUPANCY SENSOR FOR HIGH CEILING APPLICATIONS. CONFIRM CEILING HEIGHTS.

CIRCUIT DESIGNATION → 14L-4 ← LOWERCASE LETTER DESIGNATES SWITCHING OR CIRCUIT ASSIGNMENT. ASSIGNMENTS SUCH AS 14L-4 INDICATE DUAL LEVEL SWITCHING.

CIRCUIT DESIGNATION → 14EL-3 ← LETTER DESIGNATES FIXTURE TYPE.  
EXIT SIGNS: CONNECT TO UNSWITCHED HOT EMERGENCY LIGHTING CIRCUIT.  
SHADING INDICATES EGRESS LIGHT FIXTURE. CONNECT TO UNSWITCHED HOT EMERGENCY LIGHTING CIRCUIT.

#### TYPICAL LIGHT FIXTURE CONVENTION

SCALE: NONE

#### NOTE:

- SEE ELC SHEETS FOR LIGHTING CONTROL REQUIREMENTS.

Ogden School District  
1950 Monroe Blvd.  
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Revision Schedule

No.	Description	Date
1	Addendum #1	08/13/20

Project Number  
143.004

Project Issue Date  
30 July 2020

Sheet Title  
AREA A2 -  
LIGHTING  
PLAN

Sheet Number

EL201



1 AREA A2 - LIGHTING PLAN  
Scale: 1/8" = 1'-0"



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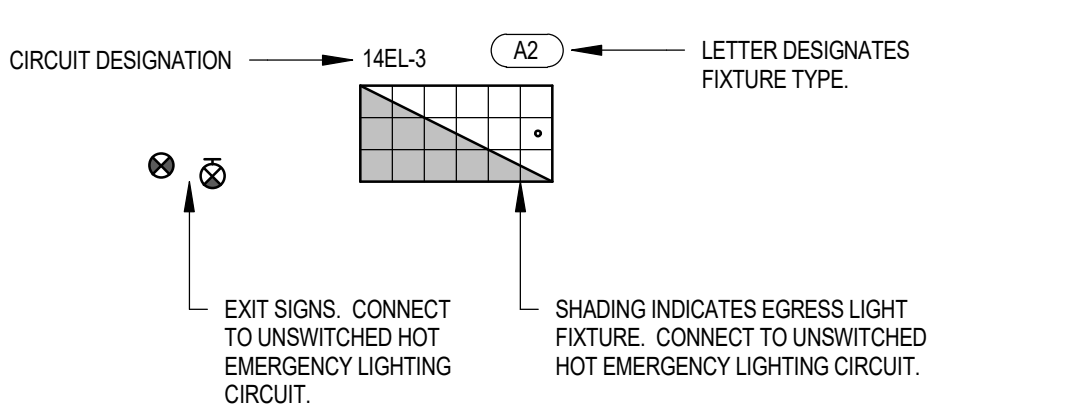
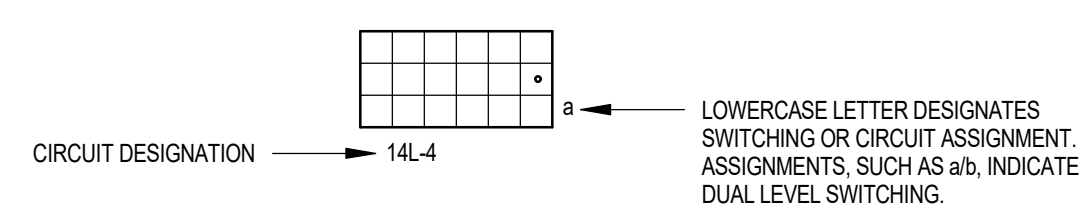
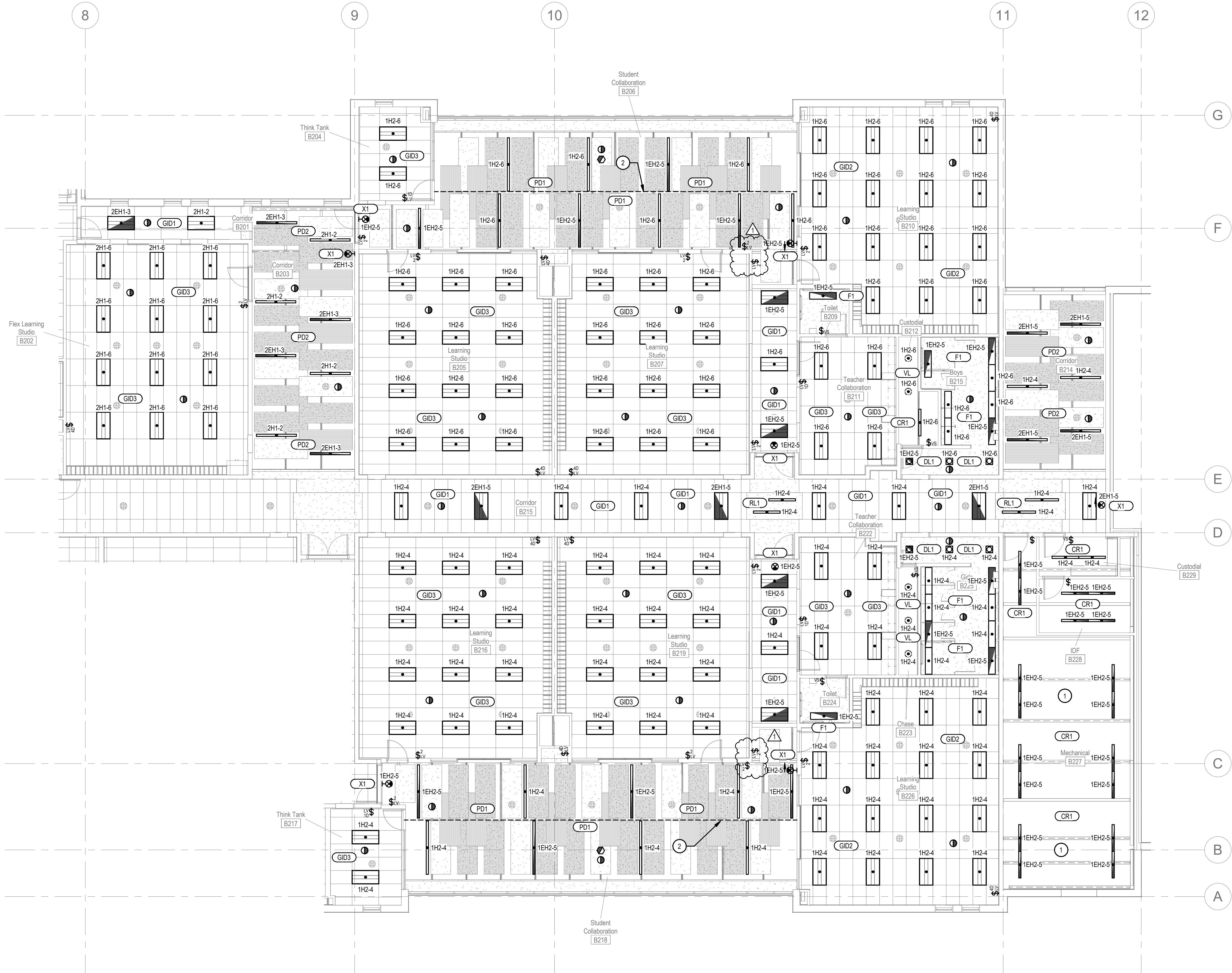
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Main Office 801.355.5959

LIGHTING GENERAL NOTES:

1. REFER TO ELC SHEETS FOR TYPICAL CONTROL WIRING DIAGRAMS. PROVIDE COMPLETE SYSTEM WITH ALL REQUIRED CONDUIT, WIRING, SWITCHES, SENSORS, POWER PACK, ETC.
2. LOCATE POWER PACKS AND ROOM CONTROLLERS ABOVE ACCESSIBLE CEILING NEAR ROOM ENTRANCES.
3. CONFIRM ALL LOCATIONS OF LIGHT FIXTURES WITH ARCHITECT PRIOR TO INSTALLATION.

KEYED NOTES: ①

1. ADJUST LIGHTS IN THIS AREA FOR MECHANICAL EQUIPMENT, PIPING AND DUCTWORK. ADJUST LIGHTING TO ADEQUATELY LIGHT THE ROOM AND SPACES AROUND THE EQUIPMENT.
2. DAYLIGHT ZONE.



TYPICAL LIGHT FIXTURE CONVENTION

SCALE: NONE

NOTE:

1. SEE ELC SHEETS FOR LIGHTING CONTROL REQUIREMENTS.

Ogden School District  
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Project Phase  
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Revision Schedule		
No.	Description	Date
1	Addendum #1	08/13/20

Project Number  
143.004

Project Issue Date  
30 July 2020

Sheet Title  
AREA B2 -  
LIGHTING  
PLAN

Sheet Number

EL202

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1 AREA B2 - LIGHTING PLAN  
Scale: 1/8" = 1'-0"



FLOOR BOX SCHEDULE														
TYPE	DEVICE CAPACITY	KO SIZE RANGE	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	MANUFACTURER	SERIES NO.
F1	4-GANG	1/2" TO 1-1/4"	DUPLEX OUTLET	DATA	OUTLET	AV	AV	N/A	N/A	N/A	N/A	N/A	LEGRAND	RF94-05
F2	2-GANG	3/4" TO 2"	DUPLEX OUTLET	DATA	OUTLET	N/A	N/A	N/A	N/A	N/A	N/A	N/A	LEGRAND	880MP2

FLOOR BOX SCHEDULE GENERAL NOTES:  
1. PROVIDE ALL ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION INCLUDING BUT NOT NECESSARILY LIMITED TO FLOOR BOX COVER, MOUNTING BRACKETS, DEVICE PLATES, KNOCKOUT PLATES, CONDUIT HUBS, DIVIDERS, ETC. COORDINATE WITH THE ARCHITECT/OWNER FOR ALL REQUIREMENTS OF THE FLOOR BOX.  
2. COORDINATE EXACT PLACEMENT OF FLOOR BOX WITH ARCHITECT/OWNER PRIOR TO ANY WORK DONE.  
3. FOR AV REQUIREMENTS, REFER TO THE AV DRAWINGS.

WIFI ACCESS POINT LOCATION  
(BLUE JACKET - DATA)  
DATA LOCATION  
(BLUE JACKET - DATA)  
QTY. OF CAT. 6A CABLES  
QTY. OF CAT. 6A CABLES  
DESIGNATION OF CIRCUIT.  
WIRE COMPLETE  
ISOLATED GROUND CIRCUIT.  
DESIGNATION OF CIRCUIT.  
WIRE COMPLETE  
PLUG TYPE. VERIFY EXACT  
PLUG TYPE WITH OWNER/  
EQUIPMENT SUPPLIER.  
PROVIDE 4" SQUARE, 2-1/8" DEEP  
JUNCTION BOX WITH SINGLE  
GANG PLASTER RING AND  
EXTEND 1" CONDUIT TO THE  
ACCESSIBLE CEILING SPACE  
TERMINATE CONDUIT IN CEILING  
SPACE WITH A NYLON BUSHING.

DATA/COMMUNICATIONS SYMBOLS LEGEND:

TYPICAL OUTLET CONVENTION  
SCALE: NONE

POWER GENERAL NOTES:

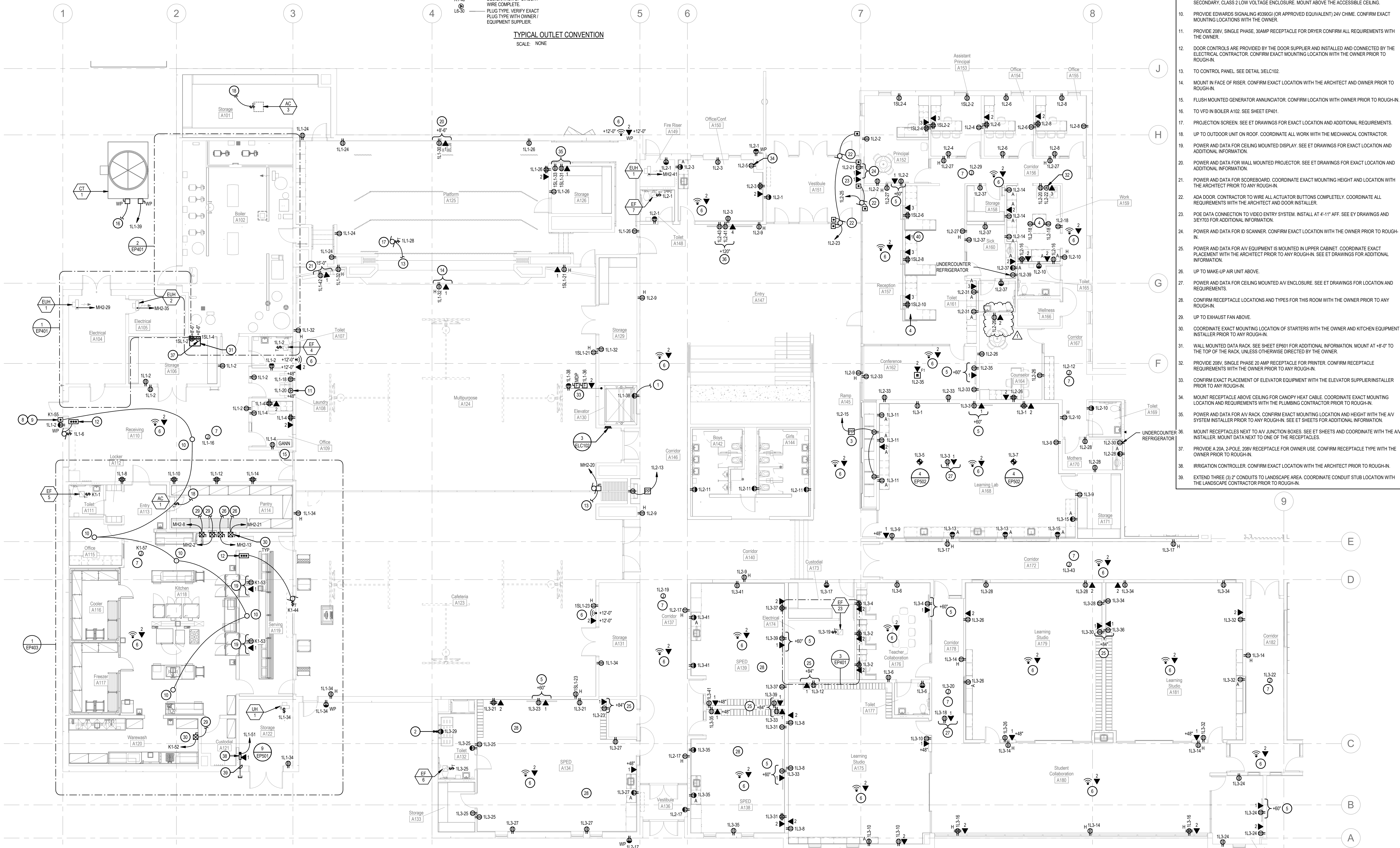
- ROUTE CONDUIT A MINIMUM OF 6" BELOW THE GRAVEL BASE.
- PROVIDE A MINIMUM OF 12" SEPARATION BETWEEN POWER AND COMMUNICATIONS CONDUITS.
- ALL CONDUITS THAT EXTEND THROUGH CONCRETE SHALL BE GALVANIZED RIGID CONDUIT AND SHALL BE WRAPPED WITH TWO (2) LAYERS OF PVC TAPE.
- ALL CONDUIT ELBOWS THAT ARE LOCATED BELOW THE FLOOR SLAB SHALL BE GALVANIZED RIGID CONDUIT AND SHALL BE WRAPPED WITH TWO (2) LAYERS OF PVC TAPE.

KEYED NOTES:

- POE DATA CONNECTION TO VIDEO ENTRY SYSTEM. INSTALL AT DESK IN LOCATION AS DETERMINED BY THE OWNER. CONFIRM PRIOR TO ANY ROUGH-IN. SEE EY DRAWINGS AND 3EY703 FOR ADDITIONAL INFORMATION.

KEYED NOTES:

- UP TO RECEPTACLE ABOVE.
- POWER FOR ADA TABLE. CONFIRM EXACT MOUNTING LOCATION WITH THE OWNER PRIOR TO ANY ROUGH-IN.
- POWER FOR DISPLAY CASE. RECEPTACLE TO SWITCH WITH THE DISPLAY CASE LIGHTS AND CORRIDOR LIGHTS. CONFIRM EXACT MOUNTING HEIGHT WITH THE ARCHITECT PRIOR TO ANY ROUGH-IN.
- CONFIRM DEVICE INSTALLATION AND LOCATION WITH THE ARCHITECT AND CASEWORK INSTALLER PRIOR TO ROUGH-IN.
- MOUNT IN DISPLAY BACK BOX. SEE 3EP902. SEE ET DRAWINGS FOR MOUNTING LOCATION AND ADDITIONAL REQUIREMENTS.
- WIRELESS ACCESS POINT AND MOUNTING HARDWARE IS FURNISHED BY THE OWNER AND INSTALLED AND CONNECTED BY THE CONTRACTOR. CONFIRM EXACT MOUNTING LOCATION WITH THE OWNER.
- 120V POWER FOR VAV CONTROLS. COORDINATE PLACEMENT WITH MECHANICAL CONTROL CONTRACTOR.
- PROVIDE EDWARDS SIGNALING #1768C-8 (OR APPROVED EQUIVALENT) 24V LOW VOLTAGE WEATHERPROOF BUTTON FOR DOORBELL.
- PROVIDE EDWARDS SIGNALING #559 (OR APPROVED EQUIVALENT) 40VA, 120V PRIMARY, 24V SECONDARY, CLASS 2 LOW VOLTAGE ENCLOSURE. MOUNT ABOVE THE ACCESSIBLE CEILING.
- PROVIDE EDWARDS SIGNALING #3380G (OR APPROVED EQUIVALENT) 24V CHIME. CONFIRM EXACT MOUNTING LOCATIONS WITH THE OWNER.
- PROVIDE 208V, SINGLE PHASE, 30AMP RECEPTACLE FOR DRYER CONFIRM ALL REQUIREMENTS WITH THE OWNER.
- DOOR CONTROLS ARE PROVIDED BY THE DOOR SUPPLIER AND INSTALLED AND CONNECTED BY THE ELECTRICAL CONTRACTOR. CONFIRM EXACT MOUNTING LOCATION WITH THE OWNER PRIOR TO ROUGH-IN.
- TO CONTROL PANEL. SEE DETAIL 3ELC102.
- MOUNT IN FACE OF RISER. CONFIRM EXACT LOCATION WITH THE ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- FLUSH MOUNTED GENERATOR ANNUNCIATOR. CONFIRM LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- TO VFD IN BOILER A102. SEE SHEET EP401.
- PROJECTION SCREEN. SEE ET DRAWINGS FOR EXACT LOCATION AND ADDITIONAL REQUIREMENTS.
- UP TO OUTDOOR UNIT ON ROOF. COORDINATE ALL WORK WITH THE MECHANICAL CONTRACTOR.
- POWER AND DATA FOR CEILING MOUNTED DISPLAY. SEE ET DRAWINGS FOR EXACT LOCATION AND ADDITIONAL INFORMATION.
- POWER AND DATA FOR WALL MOUNTED PROJECTOR. SEE ET DRAWINGS FOR EXACT LOCATION AND ADDITIONAL INFORMATION.
- POWER AND DATA FOR SCOREBOARD. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH THE ARCHITECT PRIOR TO ANY ROUGH-IN.
- ADA DOOR. CONTRACTOR TO WIRE ALL ACTUATOR BUTTONS COMPLETELY. COORDINATE ALL REQUIREMENTS WITH THE ARCHITECT AND DOOR INSTALLER.
- POE DATA CONNECTION TO VIDEO ENTRY SYSTEM. INSTALL AT 4'-11" AFF. SEE EY DRAWINGS AND 3EY703 FOR ADDITIONAL INFORMATION.
- POWER AND DATA FOR ID SCANNER. CONFIRM EXACT LOCATION WITH THE OWNER PRIOR TO ROUGH-IN.
- POWER AND DATA FOR AV EQUIPMENT IS MOUNTED IN UPPER CABINET. COORDINATE EXACT PLACEMENT WITH THE ARCHITECT PRIOR TO ANY ROUGH-IN. SEE ET DRAWINGS FOR ADDITIONAL INFORMATION.
- UP TO MAKE-UP AIR UNIT ABOVE.
- POWER AND DATA FOR CEILING MOUNTED AV ENCLOSURE. SEE ET DRAWINGS FOR LOCATION AND REQUIREMENTS.
- CONFIRM RECEPTACLE LOCATIONS AND TYPES FOR THIS ROOM WITH THE OWNER PRIOR TO ANY ROUGH-IN.
- UP TO EXHAUST FAN ABOVE.
- COORDINATE EXACT MOUNTING LOCATION OF STARTERS WITH THE OWNER AND KITCHEN EQUIPMENT INSTALLER PRIOR TO ANY ROUGH-IN.
- WALL MOUNTED DATA RACK. SEE SHEET EP901 FOR ADDITIONAL INFORMATION. MOUNT AT +8'-0" TO THE TOP OF THE RACK, UNLESS OTHERWISE DIRECTED BY THE OWNER.
- PROVIDE 208V, SINGLE PHASE 20 AMP RECEPTACLE FOR PRINTER. CONFIRM RECEPTACLE REQUIREMENTS WITH THE OWNER PRIOR TO ANY ROUGH-IN.
- CONFIRM EXACT PLACEMENT OF ELEVATOR EQUIPMENT WITH THE ELEVATOR SUPPLIER/INSTALLER PRIOR TO ANY ROUGH-IN.
- MOUNT RECEPTACLE ABOVE CEILING FOR CANOPY HEAT CABLE. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH THE PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- POWER AND DATA FOR AV RACK. CONFIRM EXACT MOUNTING LOCATION AND HEIGHT WITH THE AV SYSTEM INSTALLER PRIOR TO ANY ROUGH-IN. SEE ET SHEETS FOR ADDITIONAL INFORMATION.
- MOUNT RECEPTACLES NEXT TO AV JUNCTION BOXES. SEE ET SHEETS AND COORDINATE WITH THE AV INSTALLER. MOUNT DATA NEXT TO ONE OF THE RECEPTACLES.
- PROVIDE A 20A, 2-POLE, 208V RECEPTACLE FOR OWNER USE. CONFIRM RECEPTACLE TYPE WITH THE OWNER PRIOR TO ROUGH-IN.
- IRRIGATION CONTROLLER. CONFIRM EXACT LOCATION WITH THE ARCHITECT PRIOR TO ROUGH-IN.
- EXTEND THREE (3) 2" CONDUITS TO LANDSCAPE AREA. COORDINATE CONDUIT STUB LOCATION WITH THE LANDSCAPE CONTRACTOR PRIOR TO ROUGH-IN.



1 AREA A1 - POWER PLAN  
Scale: 1/8" = 1'-0"

A1-40  
DESIGNATION OF CIRCUIT.  
WIRE COMPLETE.

PROVIDE 4" SQUARE, 2-1/8" DEEP  
JUNCTION BOX WITH SINGLE  
GANG PLASTER RING AND  
EXTEND 1" CONDUIT TO THE  
ACCESSIBLE CEILING SPACE  
TERMINATE CONDUIT IN CEILING  
SPACE WITH A NYLON BUSHING.

WIFI ACCESS POINT LOCATION  
(BLUE JACKET - DATA)

DATA LOCATION  
(BLUE JACKET - DATA)

QTY. OF CAT. 6A CABLES.

QTY. OF CAT. 6A CABLES.

A1-40/G  
ISOLATED GROUND CIRCUIT.

A1-40  
DESIGNATION OF CIRCUIT.  
WIRE COMPLETE.

LS-30  
PLUG TYPE. VERIFY EXACT  
PLUG TYPE WITH OWNER/  
EQUIPMENT SUPPLIER.

TYPICAL OUTLET CONVENTION  
SCALE: NONE

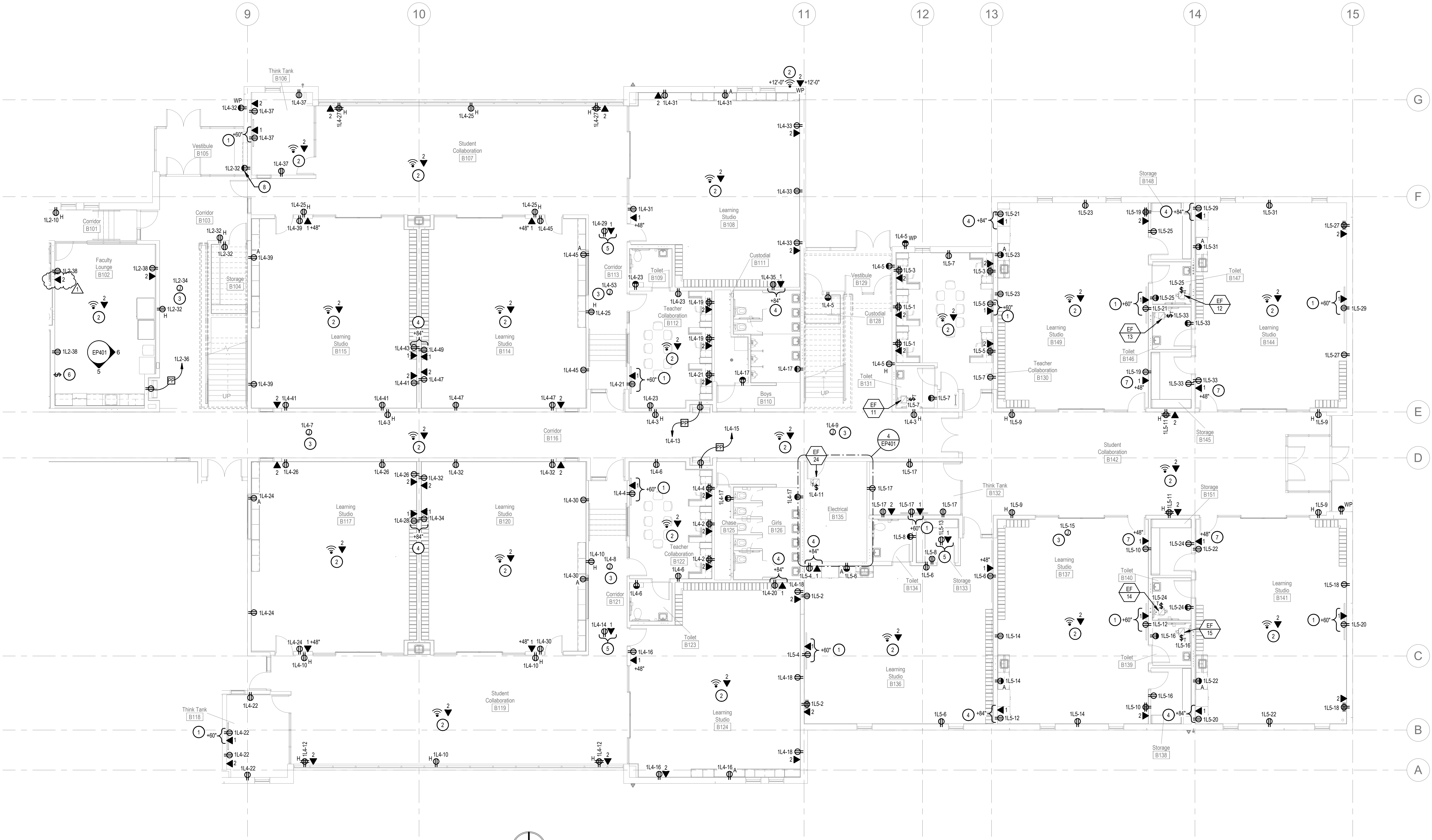
DATA/COMMUNICATIONS SYMBOLS LEGEND:

POWER GENERAL NOTES:

- ROUTE CONDUIT A MINIMUM OF 6" BELOW THE GRAVEL BASE.
- PROVIDE A MINIMUM OF 12" SEPARATION BETWEEN POWER AND COMMUNICATIONS CONDUITS.
- ALL CONDUITS THAT EXTEND THROUGH CONCRETE SHALL BE GALVANIZED RIGID CONDUIT AND SHALL BE WRAPPED WITH TWO (2) LAYERS OF PVC TAPE.
- ALL CONDUIT ELBOWS THAT ARE LOCATED BELOW THE FLOOR SLAB SHALL BE GALVANIZED RIGID CONDUIT AND SHALL BE WRAPPED WITH TWO (2) LAYERS OF PVC TAPE.

KEYED NOTES:

- MOUNT IN DISPLAY BACK BOX. SEE 3/EP502. SEE ET DRAWINGS FOR MOUNTING LOCATION AND ADDITIONAL REQUIREMENTS.
- WIRELESS ACCESS POINT AND MOUNTING HARDWARE IS FURNISHED BY THE OWNER AND INSTALLED AND CONNECTED BY THE CONTRACTOR. CONFIRM EXACT MOUNTING LOCATION WITH THE OWNER.
- 120V POWER FOR VAV CONTROLS. COORDINATE PLACEMENT WITH MECHANICAL CONTROL CONTRACTOR.
- POWER AND DATA FOR A/V EQUIPMENT IS MOUNTED IN UPPER CABINET. COORDINATE EXACT PLACEMENT WITH THE ARCHITECT PRIOR TO ANY ROUGH-IN. SEE ET DRAWINGS FOR ADDITIONAL INFORMATION.
- POWER AND DATA FOR CEILING MOUNTED A/V ENCLOSURE. SEE ET DRAWINGS FOR LOCATION AND REQUIREMENTS.
- EXHAUST FAN EF-22 CONTROLS BY MECHANICAL. PROVIDE ALL REQUIRED CONNECTIONS AND NECESSARY ROUGH-IN. COORDINATE ALL WORK WITH THE MECHANICAL CONTRACTOR PRIOR TO ANY ROUGH-IN.
- DO NOT LOCATE DATA AND POWER BEHIND DOOR. IF IT IS LOCATED BEHIND THE DOOR, IT WILL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER.
- COORDINATE EXACT LOCATION WITH THE ARCHITECT AND MECHANICAL CONTRACTOR PRIOR TO ANY ROUGH-IN.



1 AREA B1 - POWER PLAN  
Scale: 1/8" = 1'-0"

Stamp



NAVILOR  
WENTWORTH  
LUND  
ARCHITECTS



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Ogden School District  
1950 Monroe Blvd.  
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Project For  
The  
Ogden School  
District Board  
of Education

T.O. Smith  
Elementary  
School Rebuild

3295 Gramercy Ave  
Ogden, Utah 84403

Project Phase  
Bid Documents

Revision Schedule

No.	Description	Date
1	Addendum #1	08/13/20

Project Number  
143.004

Project Issue Date  
30 July 2020

Sheet Title  
AREA B1 -  
POWER PLAN

Sheet Number

EP102







**NAVLOH  
WENTWORTH  
LUND  
ARCHITECTS**



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Salt Lake City, UT 84104  
Main Office 801.355.3519

**NOTE:**  
WHERE DOOR SHOWS A KEYED NOTE SYMBOL WITH A LETTER, REFER TO THE ACCESS CONTROL DOOR MATRIX ON SHEET EY103 FOR DOOR REQUIREMENTS. CONTRACTOR SHALL CONFIRM ALL REQUIREMENTS AND PROGRAMMING WITH THE DISTRICT PRIOR TO INSTALLING AND PROGRAMMING THE ACCESS CONTROL SYSTEM.

#### SYSTEMS GENERAL NOTES:

- COORDINATE ALL WALL MOUNTED LOCATIONS WITH THE ARCHITECT.
- DO NOT LOCATE ANY FIRE ALARM DEVICES BEHIND DOORS OR SHELVING. REFER TO THE ARCHITECTURAL DRAWINGS FOR SHELVING LOCATIONS.
- THE DIVISION 28 CONTRACTOR SHALL DETERMINE THE EXACT ROUTING OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESENTS A SCHEMATIC REPRESENTATION OF DEVICE LOCATIONS, AND CONDUIT RUNS.
- ALL CONDUITS THAT TERMINATE ABOVE THE CEILING SHALL TERMINATE WITH NYLON BUSHING.
- CONTRACTOR SHALL COORDINATE ALL CEILING MOUNTED DEVICES WITH THE LIGHTING PLANS. RELOCATED DEVICES AS NECESSARY. RELOCATED DEVICES SHALL COMPLY WITH ALL NFPA SPACING REQUIREMENTS.
- ALL FIRE ALARM DEVICE LOCATIONS, EQUIPMENT LOCATIONS, RISER DIAGRAM, ETC. ARE SCHEMATIC IN NATURE AND ARE SHOWN TO PROVIDE INTENT OF THE FIRE ALARM SYSTEM TO BE PROVIDED. FIRE ALARM SYSTEM SUPPLIER SHALL PROVIDE BID AND SHOP DRAWINGS THAT INCLUDE A FULL CODE COMPLIANT DESIGN INCLUDING ALL NOTIFICATION AND INITIATION DEVICES REQUIRED WHETHER SHOWN OR NOT.
- CABLE TRAY SHALL BE INSTALLED AS A COMPLETE SYSTEM. SUFFICIENT SPACE SHALL BE PROVIDED AND MAINTAINED ABOUT TRAY TO PERMIT ADEQUATE ACCESS FOR INSTALLATION AND MAINTAINING CABLES. CABLE TRAY SHALL BE INSTALLED AND MEET THE REQUIREMENTS IN ACCORDANCE WITH NEC ARTICLE 392.

#### KEYED NOTES:

- PROVIDE 8-LINE BASKET TYPE CABLE TRAY #FT6X18X10 (OR APPROVED EQUIVALENT). PROVIDE ALL REQUIRED HARDWARE AND ACCESSORIES AS NECESSARY FOR A COMPLETE INSTALLATION. PROVIDE SEISMIC SUPPORTS PER DETAIL 1/EP603.
- EXTEND THREE (3) 4" CONDUITS FROM MDF A203 TO IDF A21. PROVIDE THREE (3) 1" INNERDUCTS IN ONE OF THE 4" CONDUITS.
- EXTEND THREE (3) 4" CONDUITS FROM THE CABLE TRAY IDF A21. PROVIDE THREE (3) 1" INNERDUCTS IN ONE OF THE 4" CONDUITS.
- EXTEND THREE (3) 4" CONDUITS FROM STORAGE A106 TO MDF A203. COORDINATE CONDUIT ROUTING WITH THE ARCHITECT PRIOR TO ROUGH-IN. PROVIDE THREE (3) 1" INNERDUCTS IN ONE OF THE 4" CONDUITS.
- PROVIDE A BLUE STROBE FOR THE CARBON MONOXIDE DETECTION SYSTEM.
- HEAT DETECTOR TO HAVE A LOWER TEMPERATURE SETTING THAN THE SPRINKLER HEAD IN THE SPACE. COORDINATE REQUIREMENTS WITH THE SPRINKLER INSTALLER.
- COORDINATE INSTALLATION AND CONNECTIONS WITH THE ELEVATOR INSTALLER PRIOR TO ROUGH-IN.
- ACTIVATION OF CARBON MONOXIDE SYSTEM TO SHUTDOWN AIR HANDLING SYSTEMS AND ROOFTOP UNITS.
- 120V WATERFLOW HORN/STROBE IS FURNISHED BY THE SPRINKLER SYSTEM SUPPLIER AND INSTALLED AND CONNECTED BY THE CONTRACTOR. CONNECT TO LOCAL 120V CIRCUIT. ROUTE BRANCH CIRCUIT THROUGH TO NORMALLY OPEN CONTACT ON THE WATERFLOW SWITCH.
- CONFIRM EXACT LOCATION AND QUANTITY OF WATERFLOW AND TAMPER SWITCHES WITH THE SPRINKLER SYSTEM INSTALLER PRIOR TO ROUGH-IN.
- PROVIDE A WIRE GUARD ON THIS DEVICE.
- COORDINATE SWITCH LOCATION WITH THE ARCHITECT AND OWNER PRIOR TO ANY ROUGH-IN.
- PROVIDE MULLION MOUNTED CARD READER.
- PROVIDE INTERCOM/CAMERA APHONE BOX-DVF. POE DATA DROP IS BY THE DATA SYSTEM INSTALLER. SEE EP SHEETS. MOUNT AT 4'-11" AFF TO CENTER OF DEVICE. SEE DETAIL 3EY703.
- HONEYWELL #270R DURESS PUSHBUTTON IS FURNISHED AND INSTALLED BY THE INTRUSION DETECTION SYSTEM INSTALLER WITH ADDITIONAL CONNECTIONS BY THE ACCESS CONTROL SYSTEM INSTALLER. PUSHBUTTON TO HAVE A DOUBLE THROW, DOUBLE POLE RELAY FOR INPUTS TO THE INTRUSION DETECTION SYSTEM AND THE ACCESS CONTROL SYSTEM. MOUNT BUTTON 2" BACK FROM THE FACE OF THE DESK OPENING. CONFIRM EXACT MOUNTING LOCATION WITH THE OWNER PRIOR TO ANY ROUGH-IN.
- PUSH BUTTON TO RELEASE DOOR AS SHOWN. COORDINATE MOUNTING ON DESK LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- RELEASE OF THIS DOOR WILL BE ACTIVATED VIA PUSH BUTTON. COORDINATE WITH DOOR HARDWARE SUPPLIER / INSTALLER.
- PROVIDE MASTER STATION APHONE #K-A1V7-SGBA. POE DATA DROP IS BY THE DATA SYSTEM INSTALLER. SEE EP SHEETS. MOUNT ON DESK IN LOCATION AS DIRECTED BY THE OWNER. SEE DETAIL 3EY703.

Ogden School District  
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Project For

**The  
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District Board  
of Education**

**T.O. Smith  
Elementary  
School Rebuild**

3295 Gramercy Ave  
Ogden, Utah 84403

Project Phase  
**Bid Documents**

Revision Schedule  
No. Description Date  
1 Addendum #1 08/13/20

Project Number  
**143.004**

Project Issue Date  
**30 July 2020**

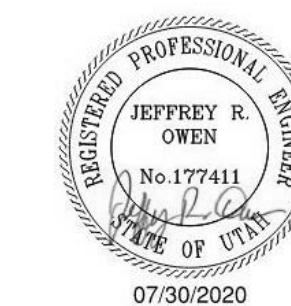
Sheet Title  
**AREA A1 -  
SYSTEMS  
PLAN**

Sheet Number

**EY101**



**2 AREA A1 - SYSTEMS PLAN**  
Scale: 1/8" = 1'-0"



NAVION  
WENTWORTH  
LUND  
ARCHITECTS

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Main Office 801.355.5819

**NOTE:**

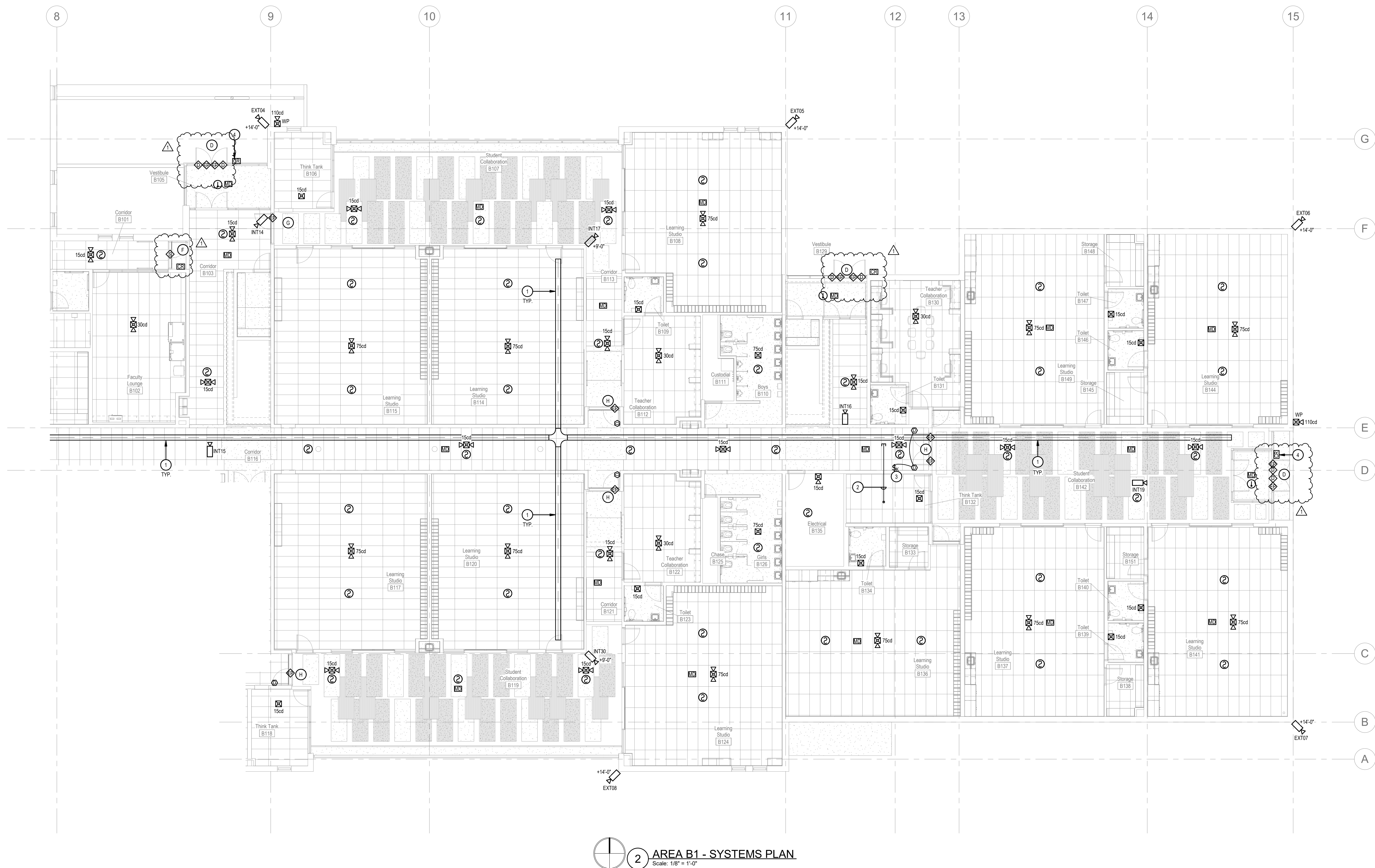
WHERE DOOR SHOWS A KEYED NOTE SYMBOL WITH A LETTER, REFER TO THE ACCESS CONTROL DOOR MATRIX ON SHEET EY703 FOR DOOR REQUIREMENTS. CONTRACTOR SHALL CONFIRM ALL REQUIREMENTS AND PROGRAMMING WITH THE DISTRICT PRIOR TO INSTALLING AND PROGRAMMING THE ACCESS CONTROL SYSTEM.

**KEYED NOTES:** ②

1. PROVIDE 8-LINE BASKET TYPE CABLE TRAY #8TX18X10 (OR APPROVED EQUIVALENT). PROVIDE ALL REQUIRED HARDWARE AND ACCESSORIES AS NECESSARY FOR A COMPLETE INSTALLATION. PROVIDE SEISMIC SUPPORTS PER DETAIL 11EP603.
2. EXTEND THREE (3) 4" CONDUITS FROM THE CABLE TRAY TO IDF B227. PROVIDE THREE (3) 1" INNERDUCITS IN ONE OF THE 4" CONDUITS.
3. COORDINATE SWITCH LOCATION WITH THE ARCHITECT AND OWNER PRIOR TO ANY ROUGH-IN.
4. PROVIDE MULLION MOUNTED CARD READER.

**SYSTEMS GENERAL NOTES:**

1. COORDINATE ALL WALL MOUNTED LOCATIONS WITH THE ARCHITECT.
2. DO NOT LOCATE ANY FIRE ALARM DEVICES BEHIND DOORS OR SHELVING. REFER TO THE ARCHITECTURAL DRAWINGS FOR SHELVING LOCATIONS.
3. THE DIVISION 28 CONTRACTOR SHALL DETERMINE THE EXACT ROUTING OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESENTS A SCHEMATIC REPRESENTATION OF DEVICE LOCATIONS, AND CONDUIT RUNS.
4. ALL CONDUITS THAT TERMINATE ABOVE THE CEILING SHALL TERMINATE WITH NYLON BUSHING.
5. CONTRACTOR SHALL COORDINATE ALL CEILING MOUNTED DEVICES WITH THE LIGHTING PLANS. RELOCATED DEVICES AS NECESSARY. RELOCATED DEVICES SHALL COMPLY WITH ALL NFPA SPACING REQUIREMENTS.
6. ALL FIRE ALARM DEVICE LOCATIONS, EQUIPMENT LOCATIONS, RISER DIAGRAM, ETC. ARE SCHEMATIC IN NATURE AND ARE SHOWN TO PROVIDE INTENT OF THE FIRE ALARM SYSTEM TO BE PROVIDED. FIRE ALARM SYSTEM SUPPLIER SHALL PROVIDE BID AND SHOP DRAWINGS THAT INCLUDE A FULL CODE COMPLIANT DESIGN INCLUDING ALL NOTIFICATION AND INITIATION DEVICES REQUIRED WHETHER SHOWN OR NOT.
7. CABLE TRAY SHALL BE INSTALLED AS A COMPLETE SYSTEM. SUFFICIENT SPACE SHALL BE PROVIDED AND MAINTAINED ABOUT TRAY TO PERMIT ADEQUATE ACCESS FOR INSTALLATION AND MAINTAINING CABLES. CABLE TRAY SHALL BE INSTALLED AND MEET THE REQUIREMENTS IN ACCORDANCE WITH NEC ARTICLE 392.

**AREA B1 - SYSTEMS PLAN**

Scale: 1/8" = 1'-0"

Ogden School District  
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Ogden, Utah 84401



Project For

The  
Ogden School  
District Board  
of Education

T.O. Smith  
Elementary  
School Rebuild

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Ogden, Utah 84403

Project Phase  
Bid Documents

Revision Schedule

No.	Description	Date
1	Addendum #1	08/13/20

Project Number  
**143.004**Project Issue Date  
**30 July 2020**Sheet Title  
**AREA B1 -  
SYSTEMS  
PLAN**

Sheet Number

**EY102**

NAVIGOR  
WENTWORTH  
LUND  
ARCHITECTS723 W Pacific Avenue, Suite 101  
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Main Office 801.355.5919

## SYSTEMS GENERAL NOTES:

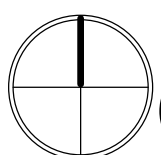
- COORDINATE ALL WALL MOUNTED LOCATIONS WITH THE ARCHITECT.
- DO NOT LOCATE ANY FIRE ALARM DEVICES BEHIND DOORS OR SHELVING. REFER TO THE ARCHITECTURAL DRAWINGS FOR SHELVING LOCATIONS.
- THE DIVISION 28 CONTRACTOR SHALL DETERMINE THE EXACT ROUTING OF ALL CONDUITS IN THE FIELD. THIS PLAN REPRESENTS A SCHEMATIC REPRESENTATION OF DEVICE LOCATIONS, AND CONDUIT RUNS.
- ALL CONDUITS THAT TERMINATE ABOVE THE CEILING SHALL TERMINATE WITH NYLON BUSHING.
- CONTRACTOR SHALL COORDINATE ALL CEILING MOUNTED DEVICES WITH THE LIGHTING PLANS. RELOCATED DEVICES AS NECESSARY. RELOCATED DEVICES SHALL COMPLY WITH ALL NFPA SPACING REQUIREMENTS.
- ALL FIRE ALARM DEVICE LOCATIONS, EQUIPMENT LOCATIONS, RISER DIAGRAM, ETC. ARE SCHEMATIC IN NATURE AND ARE SHOWN TO PROVIDE INVENT OF THE FIRE ALARM SYSTEM TO BE PROVIDED. FIRE ALARM SYSTEM SUPPLIER SHALL PROVIDE BID AND SHOP DRAWINGS THAT INCLUDE A FULL CODE COMPLIANT DESIGN INCLUDING ALL NOTIFICATION AND INITIATION DEVICES REQUIRED WHETHER SHOWN OR NOT.
- CABLE TRAY SHALL BE INSTALLED AS A COMPLETE SYSTEM. SUFFICIENT SPACE SHALL BE PROVIDED AND MAINTAINED ABOUT TRAY TO PERMIT ADEQUATE ACCESS FOR INSTALLATION AND MAINTAINING. CABLES. CABLE TRAY SHALL BE INSTALLED AND MEET THE REQUIREMENTS IN ACCORDANCE WITH NEC ARTICLE 392.

## KEYED NOTES: ②

- PROVIDE 6-LINE BASKET TYPE CABLE TRAY #8X18X10 (OR APPROVED EQUIVALENT). PROVIDE ALL REQUIRED HARDWARE AND ACCESSORIES AS NECESSARY FOR A COMPLETE INSTALLATION. PROVIDE SEISMIC SUPPORTS PER DETAIL 11EP003.
- ACTIVATION OF CARBON MONOXIDE SYSTEM TO SHUTDOWN AIR HANDLING SYSTEMS AND ROOFTOP UNITS.
- COORDINATE INSTALLATION AND SHUTDOWN CONNECTIONS WITH THE MECHANICAL CONTRACTOR.
- FLOOR MOUNTED DOOR HOLDER. COORDINATE INSTALLATION WITH THE ARCHITECT AND DOOR HARDWARE SUPPLIER PRIOR TO ANY ROUGH-IN.

## NOTE:

WHERE DOOR SHOWS A KEYED NOTE SYMBOL WITH A LETTER, REFER TO THE ACCESS CONTROL DOOR MATRIX ON SHEET EY703 FOR DOOR REQUIREMENTS. CONTRACTOR SHALL CONFIRM ALL REQUIREMENTS AND PROGRAMMING WITH THE DISTRICT PRIOR TO INSTALLING AND PROGRAMMING THE ACCESS CONTROL SYSTEM.

2 AREA B2 - SYSTEMS PLAN  
Scale: 1/8" = 1'-0"Ogden School District  
1950 Monroe Blvd.  
Ogden, Utah 84401Project For  
The  
Ogden School  
District Board  
of EducationT.O. Smith  
Elementary  
School Rebuild3295 Gramercy Ave  
Ogden, Utah 84403Project Phase  
Bid Documents

Revision Schedule

No.	Description	Date
1	Addendum #1	08/13/20

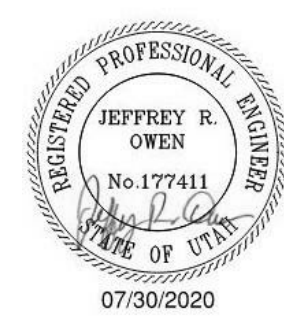
Project Number  
143.004Project Issue Date  
30 July 2020Sheet Title  
AREA B2 -  
SYSTEMS  
PLAN

Sheet Number

EY202

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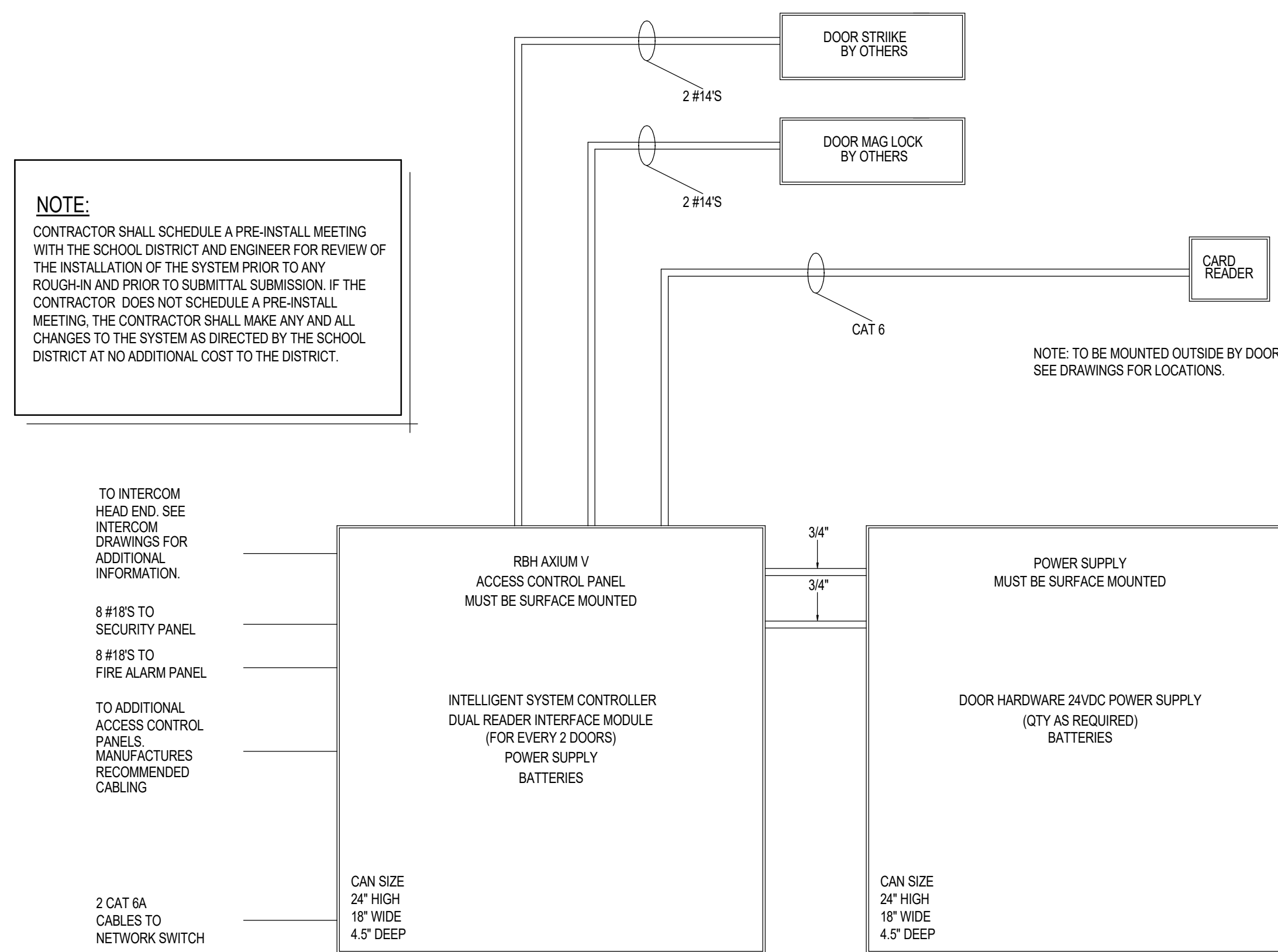




**NAYLOR  
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LUND  
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**1 ACCESS CONTROL SYSTEM RISER DIAGRAM**  
SCALE: NONE

ACCESS CONTROL SYSTEM EQUIPMENT LIST		
SYMBOL	DESCRIPTION	REQUIREMENTS
ACC	MAIN ACCESS CONTROL SYSTEM PANEL: RBI AXIUM V HEAD END CONTROLLER ALTRONIX - AX-AL00ULM	PROVIDE QUANTITY OF POWER SUPPLIES AS NECESSARY TO POWER DOOR HARDWARE AS SHOWN
CR	PROXIMITY CARD READERS: WALL MOUNTED - HID 5365 MULLION MOUNT - HID 5365	PROVIDE CARD READERS TO SUIT APPLICATION
⬠	ELECTRIC PANIC HARDWARE	REFER TO ARCHITECTURAL DOOR HARDWARE SPECIFICATIONS
⬠	ELECTRIC DOOR STRIKE	REFER TO ARCHITECTURAL DOOR HARDWARE SPECIFICATIONS
⬠	MAGNETIC DOOR CONTACT SWITCH	REFER TO ARCHITECTURAL DOOR HARDWARE SPECIFICATIONS
⬠	ELECTRIC STRIKE RELEASE	MOUNT BUTTON BELOW RECEPTION COUNTER IN A LOCATION AS DIRECTED BY THE OGDEN SCHOOL DISTRICT.

#### ACCESS CONTROL DOOR SEQUENCE OF OPERATIONS

EXTERIOR ACCESS CONTROLLED DOORS SHALL FUNCTION AS FOLLOWS:

- THE EXTERIOR ACCESS CONTROLLED DOORS SHALL FUNCTION AS DIRECTED BY THE OWNER FOR LOCKING AND UNLOCKING DURING NORMAL HOURS OF OPERATIONS.
- THE EXTERIOR ACCESS CONTROLLED DOORS SHALL GO INTO LOCK DOWN MODE AND LOCK ALL EXTERIOR DOORS ONCE THE LOCK DOWN BUTTON IS PUSHED IN THE PRINCIPAL OFFICE. PUSHING THE LOCK DOWN BUTTON AGAIN WILL RETURN ALL THE EXTERIOR DOORS THE STATE OF FUNCTION PRIOR TO THE LOCK DOWN BUTTON BEING PUSHED.
- ONCE THE LOCK DOWN BUTTON IN THE PRINCIPAL'S OFFICE IS PUSHED AND THE ACCESS CONTROLLED DOORS ARE IN LOCK DOWN MODE, THE SECURITY SYSTEM SHALL CALL THE MONITORING COMPANY AND NOTIFY THE MONITORING COMPANY THAT THE SCHOOL IS IN LOCK DOWN AND DISPATCH AS PREDETERMINED BY THE OWNER.

INTERIOR ACCESS CONTROLLED DOORS FOR THE WINGS SHALL FUNCTION AS FOLLOWS:

- PRESENTING A CARD TO THE CARD READER AT THE DOOR WILL RELEASE THE MAGNETIC DOOR HOLDERS AND ENERGIZE THE ELECTRIC DOOR STRIKES TO LOCK THE DOORS. PRESENTING A CARD A SECOND TIME WILL DE-ENERGIZE THE ELECTRIC DOOR STRIKES AND ENERGIZE THE MAGNETIC DOOR HOLDERS TO HOLD THE DOORS IN THE OPEN POSITION. DOOR WILL HAVE TO BE PHYSICALLY OPENED SO THE MAGNETIC DOOR HOLDERS WILL HOLD THEM OPEN.
- THE NEW INTERIOR ACCESS CONTROLLED DOORS SHALL GO INTO LOCK DOWN MODE (RELEASE MAGNETIC DOOR HOLDERS AND ENERGIZE ELECTRONIC STRIKES) AND LOCK ALL NEW INTERIOR DOORS ONCE THE LOCK DOWN BUTTON IS PUSHED IN THE MAIN OFFICE. PUSHING THE LOCK DOWN BUTTON AGAIN WILL RETURN ALL THE NEW INTERIOR DOORS TO THE STATE OF FUNCTION PRIOR TO THE LOCK DOWN BUTTON BEING PUSHED. NEW INTERIOR DOORS WILL HAVE TO BE PHYSICALLY REOPENED SO THE MAGNETIC DOOR HOLDERS WILL HOLD THEM OPEN.

DOOR ROUGH-IN GENERAL NOTES:

- CONTRACTOR SHALL WORK CLOSELY WITH THE DOOR HARDWARE SUPPLIER AND ACCESS CONTROL SYSTEM SUPPLIER FOR DOOR REQUIREMENTS, ROUGH-IN AND WIRING.
- CONTRACTOR SHALL COORDINATE ALL JUNCTION BOX ROUGH-IN LOCATIONS WITH THE OWNER AND ACCESS SYSTEM CONTROL SYSTEM SUPPLIER PRIOR TO ANY ROUGH-IN.
- ALL CABLING TO DEVICES THAT ARE INSTALLED WITHIN DOOR OR ON MULLIONS SHALL BE ROUTED THROUGH THE MULLIONS. COORDINATE INSTALLATION WITH THE WINDOW SYSTEM INSTALLER PRIOR TO ANY ROUGH-IN.

#### ACCESS CONTROL DOOR MATRIX

DOOR DESIGNATION	TELEPHONE SYSTEM # FOR DOOR RELEASE					ACCESS CONTROL SYSTEM			ADA CONTROLLER	INTERCOM CAMERA	SEQUENCE OF OPERATION
	1	2	3	4	5	PROGRAM	CARD READER	LOCK-DOWN PUSH BUTTON			
A						X		X	X		PROGRAMMED TO BE UNSECURE DURING SCHOOL HOURS AND SECURE AFTER HOURS SECURE UPON LOCK-DOWN INITIATION
B						X	X	X	X		PROGRAMMED TO BE UNSECURE DURING SCHOOL HOURS AND SECURE AFTER HOURS SECURE UPON LOCK-DOWN INITIATION ADA DOOR CONTROLLER TO BE DISABLED IF DOOR IS SECURE AND ENABLED IF UNSECURE SECURE DISABLED UPON CARD READER ACTIVATION
C						X	X			X	PROGRAMMED TO BE NORMALLY SECURE SECURE DISABLED BY OFFICE STAFF UPON VERIFICATION VIA INTERCOM SYSTEM ADA DOOR CONTROLLER TO BE DISABLED IF DOOR IS SECURE AND ENABLED IF UNSECURE SECURE DISABLED UPON CARD READER ACTIVATION
D						X		X			PROGRAMMED TO BE UNSECURE FOR A PERIOD PRIOR TO SCHOOL OPENING TO ALLOW STUDENT ACCESS AND SECURE DURING SCHOOL HOURS SECURE UPON LOCK-DOWN INITIATION SECURE DISABLED UPON CARD READER ACTIVATION
E						X	X	X	X		PROGRAMMED TO BE UNSECURE FOR A PERIOD PRIOR TO SCHOOL OPENING TO ALLOW STUDENT ACCESS AND SECURE DURING SCHOOL HOURS SECURE UPON LOCK-DOWN INITIATION ADA DOOR CONTROLLER TO BE DISABLED IF DOOR IS SECURE AND ENABLED IF UNSECURE SECURE DISABLED UPON CARD READER ACTIVATION
F						X	X	X			PROGRAMMED TO BE NORMALLY UNSECURE SECURE UPON LOCK-DOWN INITIATION SECURE DISABLED UPON CARD READER ACTIVATION DURING LOCK-DOWN ONLY
G						X		X			PROGRAMMED TO BE NORMALLY UNSECURE SECURE UPON LOCK-DOWN INITIATION
H						X		X			PROGRAMMED TO BE NORMALLY UNSECURE HELD OPEN BY MAGNETIC DOOR HOLDERS (CONTROLLED FROM FIRE ALARM PANEL) RELEASE UPON KEYED SWITCH OR LOCK-DOWN INITIATION
J						X	X				PROGRAMMED TO BE NORMALLY SECURE SECURE DISABLED UPON CARD READER ACTIVATION

#### DOORS HELD OPEN BY MAGNETIC DOOR HOLDERS:

DOORS THAT ARE HELD OPEN BY MAGNETIC DOOR HOLDER SHALL FUNCTION AS FOLLOWS:

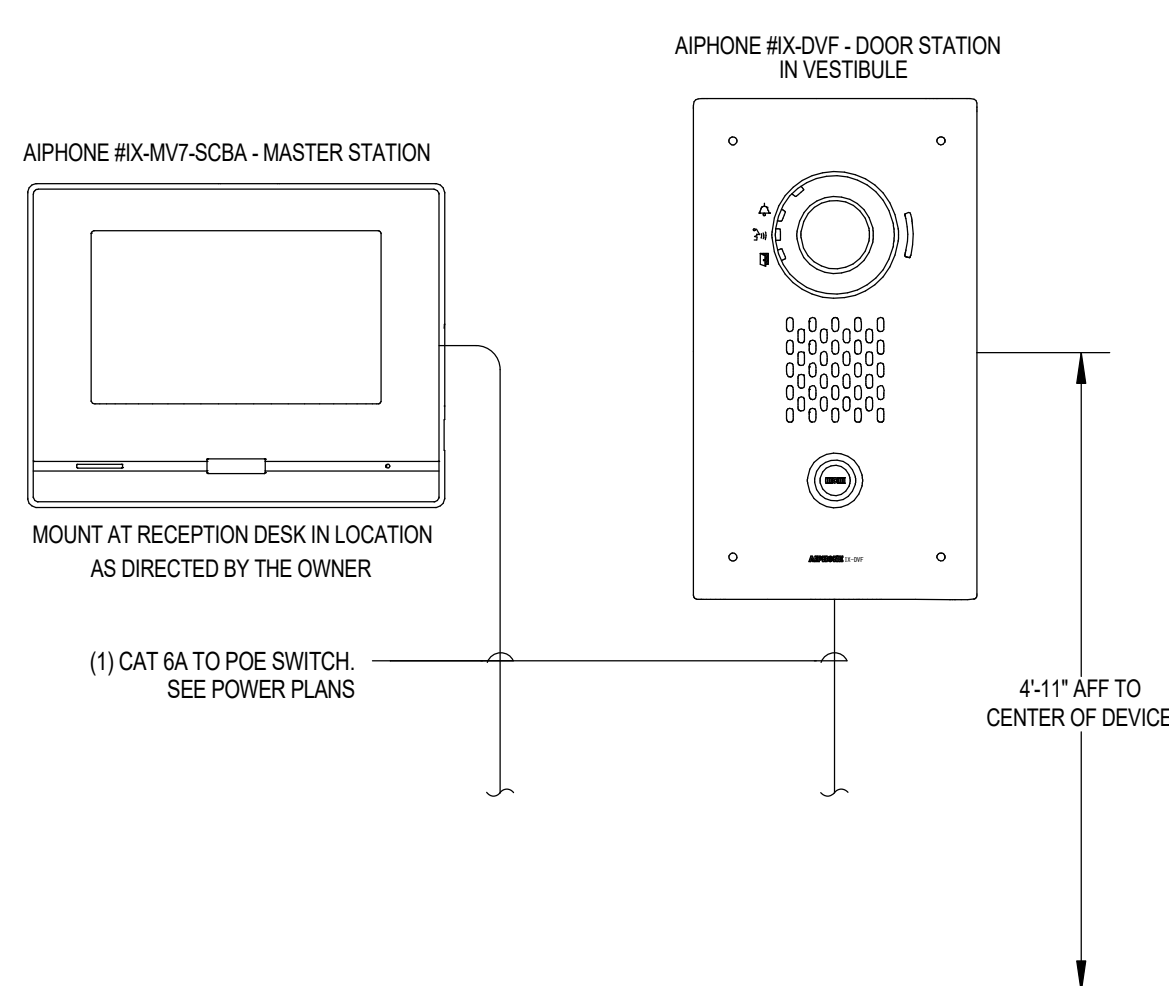
**FIRE ALARM**  
UPON ACTIVATION OF THE FIRE ALARM SYSTEM THE DOORS BEING HELD OPEN WITH MAGNETIC DOOR HOLDERS SHALL RELEASE AND CLOSE.

THE FIRE ALARM SYSTEM SHALL NOTIFY THE ACCESS CONTROL SYSTEM THAT THE FIRE ALARM HAS ACTIVATED AND UNLOCK ALL DOORS THAT ARE CONTROLLED THROUGH THE ACCESS CONTROL SYSTEM.

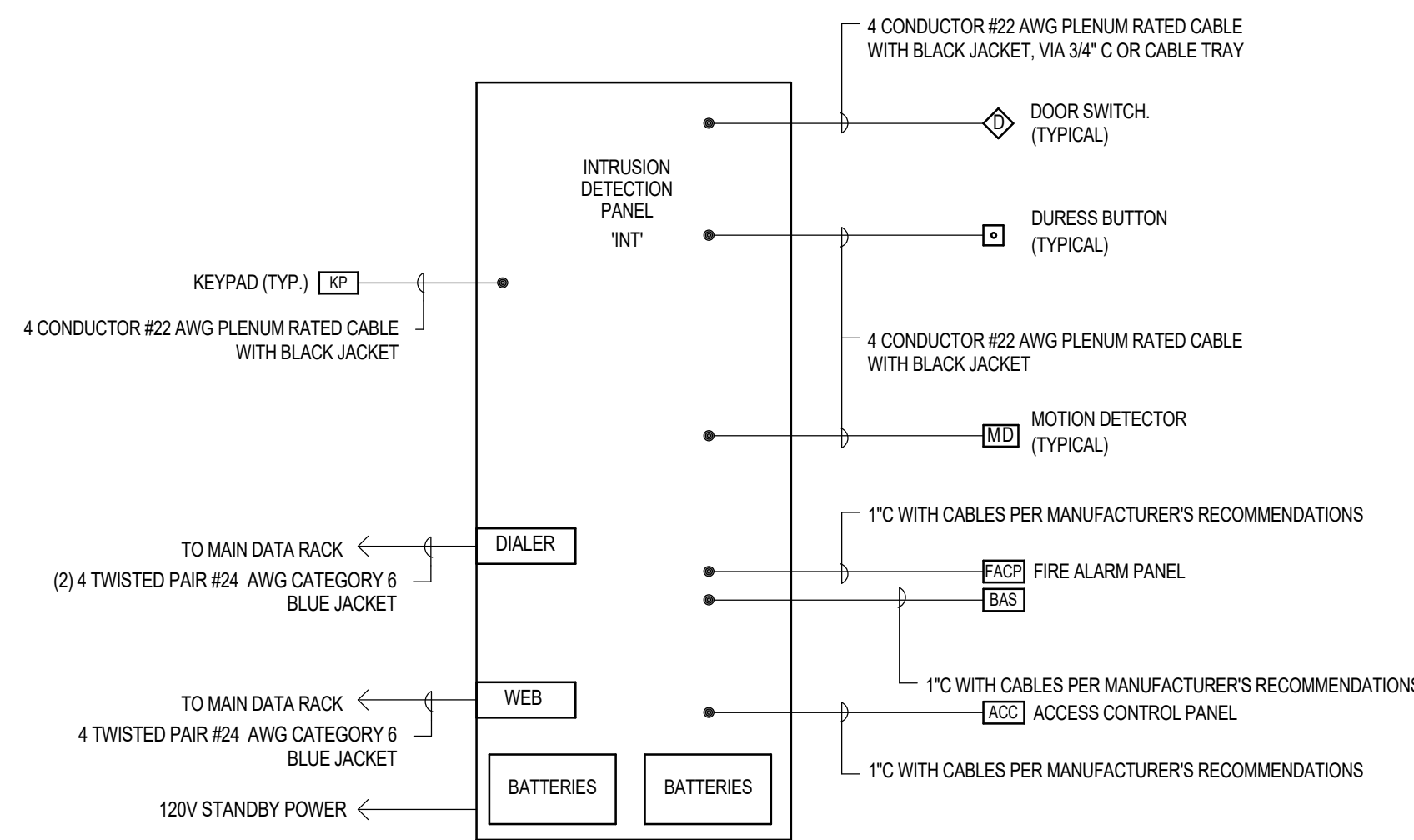
**LOCK DOWN**  
UPON ACTIVATION OF A LOCK DOWN THE ACCESS CONTROL PANEL SHALL LOCK ALL DOORS CONTROLLED BY THE ACCESS CONTROL SYSTEM.

THE ACCESS CONTROL SYSTEM SHALL NOTIFY THE FIRE ALARM SYSTEM THAT A LOCK DOWN HAS BEEN INITIATED AND RELEASE ALL DOOR HELD OPEN WITH MAGNETIC DOOR HOLDERS.

THE FIRE ALARM SYSTEM AND ACCESS CONTROL SYSTEM INTEGRATORS SHALL WORK CLOSELY TOGETHER AND WITH THE DISTRICT TO PROVIDE THE REQUIRED PROGRAMMING AND INPUTS SO DOORS FUNCTION AS STATED ABOVE.



**3 VESTIBULE INTERCOM SYSTEM RISER DIAGRAM**  
SCALE: NONE



**2 INTRUSION DETECTION SYSTEM RISER DIAGRAM**  
SCALE: NONE

INTRUSION DETECTION SYSTEM EQUIPMENT LIST				
SYMBOL	DESCRIPTION	SUPPLIER	MODEL	REQUIREMENTS
INT	MAIN INTRUSION DETECTION CONTROL PANEL	OSC	MAXSYS PCA200 NK	EXPANDABLE UP TO 128 ZONES. PROVIDE ZONE EXPANDER MODULES PCA116 AS MAY BE REQUIRED EACH ALARM DEVICES REQUIRES A DEDICATED ZONE
XP	KEY PAD	OSC	LC04501	CONFIRM LOCATION OF ALL KEYPADS WITH OGDEN SCHOOL DISTRICT PRIOR TO ROUGH-IN
MD	MOTION DETECTOR - PIR, 360 DEGREES, 50' DIAMETER	TAMAX	PA-6810E	CEILING-MOUNTED
⬠	MAGNETIC DOOR CONTACT SWITCH	-	-	REFER TO ARCHITECTURAL DOOR HARDWARE SPECIFICATIONS
OS	OVERHEAD MAGNETIC DOOR CONTACT SWITCH	GE SENTROL	2205A	COORDINATE INSTALLATION WITH OVERHEAD DOOR INSTALLER
D	DURESS / LOCK DOWN BUTTON	HONEYWELL	270R	2 POLE, DOUBLE THROW DEVICE. CONFIRM MOUNTING LOCATION PRIOR TO ANY ROUGH-IN

#### INTRUSION DETECTION SYSTEM GENERAL NOTES:

- ALLOW SUFFICIENT LENGTH OF CABLE FOR TERMINATION AT EACH END.
- PROVIDE PLENUM RATED CABLE.
- LABEL ALL CABLES AT BOTH ENDS WITH ROOM NUMBER.
- PROVIDE A DEDICATED ZONE FOR EACH DEVICE.
- COORDINATE ALL REQUIREMENTS WITH OGDEN SCHOOL DISTRICT PRIOR TO ROUGH-IN.
- THE SECURITY SYSTEM SUPPLIER SHALL PROVIDE COMPUTER DRAFTED SHOP DRAWINGS OF THE ENTIRE SECURITY SYSTEM USING FLOOR PLANS PROVIDED BY THE ENGINEER. SHOP DRAWINGS TO INCLUDE: PLANS, SECTIONS, ELEVATIONS, FINAL DEVICE LOCATIONS, CONDUIT SIZE AND ROUTING AND ALL CONDUCTOR SIZES. TYPICAL RISERS WILL NOT BE ACCEPTED.
- WIRING REQUIREMENTS: ALL SYSTEM WIRING (EXCEPT LINE VOLTAGE AND TELEPHONE CONNECTIONS) SHALL BE MINIMUM 18 AWG STRANDED COPPER. TELEPHONE CONNECTIONS SHALL BE MINIMUM CAT-4 AND CONNECTED TO THE PANEL. TELEPHONE LINE CONNECTION TERMINALS VIA RSTV TELEPHONE JACKS AND CORDS. DIRECT WIRING OF TELEPHONE LINES TO PANEL CIRCUIT BOARD IS NOT ACCEPTABLE.
- WIRE COLOR CODE:  
A - DOOR CONTACTS: YELLOW, GREEN  
B - MOTION DETECTORS: RED, BLACK, YELLOW, GREEN  
C - COMBUS CIRCUIT: RED, BLACK, YELLOW, GREEN  
D - AUDIBLE DEVICES: RED, BLACK  
E - WIRE COLOR FOR ANY CIRCUIT NOT LISTED SHALL BE APPROVED BY OGDEN SCHOOL DISTRICT PRIOR TO INSTALLATION.
- ROUGH-IN PROVIDE AN 8" X 8" X 8" GUTTER LOCATED ABOVE ENCLOSURE LOCATION. THE GUTTER SHALL BE BLANK (NO KNOCKOUTS) AND BE MOUNTED AT 76" AFF TO THE BOTTOM EDGE OF THE GUTTER. THE SYSTEM ENCLOSURE SHALL BE SURFACE MOUNTED AT 72" AFF TO THE TOP OF THE ENCLOSURE, AND INSTALLED ONLY AFTER ALL WALL BOARD AND PAINTING WORK IS COMPLETE. MOUNTING ENCLOSURES OR GUTTERS WITH POWDER ACTUATED ANCHORING SYSTEM IN NOT ACCEPTABLE. ALL WIRING SHALL ENTER SYSTEM ENCLOSURE THROUGH MINIMUM 1-1/4" NPLES LOCATED ON THE TOP FAR RIGHT HAND SIDE OF THE ENCLOSURE. PROVIDE PLASTIC BUSHINGS ON ALL NPLES.
- FOR LONG RUNS OF POWER WIRING, INCREASE WIRE SIZE PER MANUFACTURERS REQUIREMENTS.
- PROVIDE ALL NECESSARY RELAY CONTACTS IN INTRUSION DETECTION SYSTEM MAIN PANEL FOR INTEGRATION TO FACP FOR MONITORING OF DURESS PUSHBUTTON AND SUBSEQUENT RELEASE OF ALL DOORS HELD OPEN BY MAGNETIC DOOR HOLDERS IN A LOCK DOWN EVENT.
- PROVIDE A DEDICATED ZONE FOR EACH DEVICE. THE ONLY ALLOWABLE EXCEPTION IS WHEN (2) TWO DEVICES MONITOR A COMMON DOOR.

Project For

**The  
Ogden School  
District Board  
of Education**

**T.O. Smith  
Elementary  
School Rebuild**

3295 Gramercy Ave  
Ogden, Utah 84403

Project Phase  
**Bid Documents**

Revision Schedule

No.	Description	Date
1	Addendum #1	08/13/20

Project Number  
**143.004**

Project Issue Date  
**30 July 2020**

Sheet Title  
**INTRUSION  
AND ACCESS  
CONTOL**

Sheet Number



**EY703**