



**ST. CLAIR CATHOLIC**  
**DISTRICT SCHOOL BOARD**  
*Lighting the Way ~ Rejoicing in Our Journey*

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***ADDENDUM # 001***

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**St. Clair Catholic District School Board**

**Our Lady of Fatima  
545 Baldoon Rd  
Chatham, ON**

**General Renovations & Additions for  
Mechanical Equipment**

**Project No. 619-CP1825**

Prepared by:

**Wilson Diaz Architects Inc.**  
280 Queens Ave, Suite 1Q  
London, Ontario  
N6B 1X3

April 25th. 2018

*This addendum forms part of the Contract Bid Documents and amends the original drawings and specifications issued for Bid on April 12th. 2018*

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**PART A – GENERAL**

**1.1 MANDATORY SITE VIST REVIEW/QUESTIONS**

At the beginning of the meeting, the SCCDSB and WDAI emphasized that the Site Visit is a MANDATORY visit. The Board therefore, will only receive offers from the contractors listed below:

**Our Lady of Fatima Catholic School - Mandatory Site Visit List**

<b>Company</b>	<b>Name of Representative</b>	<b>Phone Number/Email</b>
K&L Construction	Scott Smith	519-472-7164 estimating@kandlconstruction.com
Elgin Contracting	Art Davis	519-633-9969 kohick@elgincontracting.com
Westhoek Construction	Bill Mason	519-351-4221 bill@westhoek.on.ca
Vince Ferro Construction LTD.	Brian Miles	519-969-4020 vferro@mnsi.net
QPS Mechanical	Chad Ewing	519-351-3177 chad@qpsmec.com
Elmara	Leslie Badway	519-737-1253 mike@elmira.com
Oscar Construction	Katherine Armbruster	519-737-0350 oscarcst@mnsi.net
Elric Contractors	David Pollard	519-627-6031 elriccontractor@gmail.com
Al Langman Construction	Walt Ciapka	519-668-6400 wciapka@allangmanconstruction.com
Bill Hoekstra General Contracting	Bill Hoekstra	519-344-4855 info@bh-gc.com

		jake@wellingtonbuilders.com
TCI Titan Contracting	Hamzeh A.	519-977-1125 hamzeh@tciwindsor.com

Project Scope Discussion:

- Renovation to select areas in school ceiling areas to install new mechanical equipment and sprinkler systems, new lighting and electrical in classrooms, hallways and school entrances.
- New mechanical room addition @ rear of school to house fluid cooler unit.
- New exterior wall assembly consisting of new membrane, spray foam insulation, Limestone base, brick masonry and corrugated metal siding finishes around exterior perimeter of the school, extent shown on drawings.
- New washroom groups, Universal washroom, new exit corridor through middle of the school, and new resource rooms with new act ceilings and flooring finishes. Remainder of rooms will not be touched except for work done above ceilings.
- Entrance doorways will be replaced and recessed, with new oak soffits and new canopy siding (select canopies to be fully demolished as noted on drawings). Concrete subfloor will be left exposed until next phase in the project.
- Provide 2 additional pricing options: one to replace all exterior windows, and a 2nd to keep the existing windows.
- All parapets will be bumped up to new height.

**Please consult drawings and specifications for full extent of work to be completed in this phase.**

Questions, comments and discussion from General Contractors:

a. Question:

Can Demolition begin before the end of school?

Answer:

No, demolition cannot commence until school has closed for the summer.

b. Question:

Who is responsible for submitting and paying for the building permit?

Answer:

The architect will submit for building permit during the week of April 23<sup>rd</sup>, and the client will be paying for the permit.

c. Question:

What is the lead time on the mechanical equipment?

Answer:

Our mechanical consultants have assured us that lead time for the mechanical equipment will not be an issue. As requested of the Engineer in the site meeting for confirmation by contacting suppliers after the site review, the fluid cooler unit will have the longest lead time for delivery will be between 5 -7 weeks. Shop Drawings are to be submitted as soon as possible after contract award, no later than last week of May to have the Fluid Cooler delivered to site in end of July. We are looking into potentially loading this unit through the large mechanical louvre in the new mechanical room addition, allowing the roof to be finished if the mechanical unit delivery is delayed.

d. Question:

What will the working hours be once school resumes?

Answer:

This project is to be completed over 2-month period from July 2nd and ending August 28th. Refer to Instructions to Bidders Section 1.11 Timing of Project for further details. Any subsequent outstanding work will be done afterhours (evenings and weekends). Work in the mechanical room may continue during regular working hours provided that all activities are within the mechanical room area. Exterior masonry that does not affect areas used by the students may also continue contingent on the placement and maintenance of proper construction barriers.

e. Question:

Will classroom flooring be affected by the installation of new hub drains?

Answer:

A small section of flooring will be removed for the installation of hub drains specified in the drawings. The area is very small and may be hidden by enclosing partitions indicated on the drawings. Any exposed untiled areas can remain provided there is no danger of loose adjacent tiles. The rest of the classroom flooring is not to be touched in this phase.

f. Question:

What areas will receive new finishes?

Answer:

The new washroom groups will receive new wall, floor and ceiling tiles. Concrete affected by plumbing installation will need to be repaired and made good. Floor areas at new entrance doors will not receive new finishes. Instead the concrete will be left exposed but will need to be made smooth.

g. Question:

Can masonry work be done during school hours?

Answer:

Refer to Instructions to Bidders Section 1.11 Timing of Project for further details. GC to coordinate schedule with masons so as to complete areas adjacent to children play areas/high traffic areas while school is out. When school resumes, masonry can be continued on remaining areas during school hours with the use of proper and safe hoarding. All exterior masonry work must be finished by October 31<sup>st</sup>.

h. Question:

Is the brick in stock?

Answer:

The brick called for is in stock.

## **PART B – SPECIFICATIONS**

### **1. Revised Bid Documents**

**10 Pages**

The attached revised bid documents supersede the bid documents originally issued on April 12<sup>th</sup> 2018. Refer to additional alternative price (#2) and other editorial changes made to the documents, including confirmation of drawings list. Please ensure that these forms are used at the time of bid submission.

### **2. Section 10211 – Solid Phenolic Partitions and Urinal Screens**

**5 Pages**

The attached specification forms part of the tender documents.

## **PART C – ARCHITECTURAL DRAWINGS**

RESERVED

## **PART D – STRUCTURAL DRAWINGS**

RESERVED

## **PART E – MECHANICAL / ELECTRICAL DRAWINGS**

1. Refer to attached Addendum No. 1 issued by Chorley + Bisset  
Mechanical Specifications & Plus Hydrel Metering Cabinet Specifications 4 Page(s)  
Reissued Drawings E200, E300, E400 and E401 4 Page(s)

## **ARCHITECTURAL SKETCHES INCLUDED**

### **ASK-001 – Part Demolition Floor Plan:**

North Childcare exterior masonry wall renewal will not be done in this project phase.

### **ASK-002 – Part Reflected Ceiling Demo Plan:**

Childcare entrance canopy to have siding, lighting and soffit removed with requirements to complete new siding, soffit and lighting.  
Ceiling in classroom 110 to remain. No work done in this classroom.

### **ASK-003 – Part Floor Plan:**

North Childcare existing wall to remain as-is except where sprinkler room work is to be done. Hose connection on north wall to be removed and reinstalled in existing location with new masonry work.

### **ASK-004 – Part Reflected Ceiling Plan:**

ACT ceiling height corrected to be 2540 a.f.f. @ 2 North East vestibule locations.

### **ASK-005 – Alternate Price Sill Detail on A625:**

Revised to show sill clip.

### **ASK-006 – Enlarged Washroom Plans & Elevations:**

Washroom partition doors to swing inward. Pilasters incorporated into stalls, stall door is 610mm opening width.

**END OF ADDENDUM # 001**

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M102 - Mechanical Details & Heating Sys. Schematic  
M201 – Ground Floor Plan Plumbing  
M202 – Plumbing Details  
M301 – Ground Floor Plan Fire Protection  
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M402 – Mechanical Room Plans & Details  
M501 – Ground Floor Plan Air Distribution  
M601 – Mechanical Room Plans & System Schematic  
M701 – Ground Floor Plan Plumbing Demolition  
M702 – Ground Floor Plan Heating Demolition  
M703 – Ground Floor Plan Air Distribution Demolition  
M704 – Mechanical Rm Plan, Part Roof Plan & Sys. Schematic

**Electrical**

E100 – Electrical Drawing List, Legend, Schedules, and Site Plan  
E200 – Ground Floor Plan Lighting and Fire Alarm  
E300 – Ground Floor Plan Power and Systems  
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E401 – Ground Floor Power Plan & Systems Demolition  
E500 – Electrical Risers and Details

**Structural**

S101 – Structural

**End of Section**



Submitted By: \_\_\_\_\_

To: **St. Clair Catholic District School Board**

**Project: No. 619-CP1825**

**General Renovations and Addition for Mechanical Equipment**

**Our Lady of Fatima Catholic School  
545 Baldoon Rd  
Chatham, Ontario**

1) **BID PRICE**

The Drawings, Specifications and other Contract Documents for this Project have been examined, as well as the premises and job site conditions affecting the work. The undersigned hereby offers to complete the work in accordance with the Contract Documents for the following bid price, except as defined below for HST:

\_\_\_\_\_  
\_\_\_\_\_ Dollars (\$ \_\_\_\_\_ )

in Canadian funds EXCLUDING HST. HST will be added to the bid price.

In submitting this Bid, the undersigned recognizes and accepts the right of the Owner to accept any Bid, which is deemed the most advantageous to the Owner, (or any part thereof), at the price submitted, or to reject any or all Bids. Acceptance of the Bid and/or award of the contract is subject to the approval of the **St. Clair Catholic District School Board**.

In the event that a discrepancy arises between the written bid price and the associated numerical price, the written bid price will be deemed to be correct.

Harmonized Sales Tax (HST)

The bidder shall not include the applicable HST in the bid price. The successful contractor will indicate on each application for payment as a separate amount the appropriate HST the Owner is obliged to pay.

**2) CASH ALLOWANCES**

1. Include a Stipulated Sum of Forty-Five Thousand Dollars (\$45,000.00) to cover costs associated with the supply and installation of new hardware.
2. Include a Stipulated Sum of Three Thousand Dollars (\$3,000.00) to cover costs associated with rework of existing security system in areas affected by construction (Damar).
3. Include a Stipulated Sum of Five Thousand Dollars (\$5,000.00) to cover costs associated with removal of unforeseen Asbestos products discovered during construction.
4. Include a Stipulated Sum of Three Thousand Dollars (\$3,000.00) to cover costs associated with reinstallation of Fibre Optic communications cable (Cogeco).

The General Contractor is to coordinate and ensure that all cash allowances specified in section 15001-22 Mechanical General Provisions, described under section 3.27 are fully accounted for in the Base Bid price.

The General Contractor is to coordinate and ensure that all cash allowances specified in section 16001-22 Electrical General Provisions, described under section 3.24 are fully accounted for in the Base Bid price.

Time and Materials rates to be applied against Cash Allowance work. Final reconciliation will adjust the cash allowance as credit the SCCDSB for unexpended amounts and extra to the contractor for over expenditure. The contractor shall refer to the documents for the reconciliation terms and conditions.

**3) PRE-ORDERED MATERIAL SUPPLY**

Due to severe time constraints, the St. Clair Catholic District School Board has pre-ordered certain items that require a long lead time for delivery. The contractor agrees to assume the materials ordered for inclusion into the work and pay for the items based upon Board purchase order and invoice. The contractor shall mark-up subtrade time and materials billing for this portion of work at 10% only.

The following items have been pre-ordered:

1. Not Applicable

**4) INSURANCE**

The undersigned carries Policy # \_\_\_\_\_ with \_\_\_\_\_  
in the following amounts:

- 1. Comprehensive General Insurance . . . \$ \_\_\_\_\_
- 2. Automobile Liability Insurance . . . \$ \_\_\_\_\_

Provide a signed standard form provided by the Contractor's insurance company or broker stated its intention to provide insurance to the Bidder in accordance with the insurance requirements of the Contract Documents.

**5) BONDING**

The undersigned has provided with this bid the required Bonding and Surety as outlined in the Instruction to Bidders, Paragraph 1.08.

**6) WORKPLACE SAFETY AND INSURANCE BOARD**

The Bid package is to include a current Certificate of Good Standing from the Workplace Safety and Insurance Board (WSIB).

**7) TIME OF COMPLETION**

The undersigned hereby affirms and states that, if awarded the Contract for said work, the entire contract will be completed within the time frames as stated in the Instructions to Bidders, Paragraph 1.11.

**8) SUMMARY**

The undersigned agrees that the bid price shall remain in effect for a period of 60 (sixty) calendar days from the date of receipt of bids. The undersigned agrees to assume all increases in labour rates and material prices, taxes, duties, cost indexes, or any other rates that may develop during the life of this Contract.

**9) DOCUMENTS AND INFORMATION**

This Bid is based on the following:

- 1. Bid Form
- 2. Instructions to Bidders
- 3. General Conditions
- 4. Drawings/Sketches
- 5. Specifications

**10) SCOPE OF WORK**

As described in the Drawings and Specifications, the work includes demolition of exterior masonry face brick, interior load bearing & non-load bearing partitions, ceilings, portions of door and window assemblies, concrete floors for underfloor services, finishes and site works demolition. New work includes new exterior wall facing assemblies, new door & window systems, and parapet renovations. New work also includes the construction of a new mechanical room area and reworking of interior spaces to be included as part of the introduction of major mechanical equipment upgrades. New washroom areas and corridor improvements to be completed. Major mechanical work will include the phased installation of a building sprinkler system, new heat pumps, new ventilation systems and associated mechanical services. Lay in Acoustic (LAT) and some Gypsum Wall Board (GWB) ceilings will be replaced with new ceiling systems once above ceiling mechanical and electrical work has been completed in new areas. In certain areas where ongoing above ceiling work is required, ceiling systems will be completed with new suspended track and finished with previously removed and stored existing ceiling tile as noted on drawings. Site work to provide new underground water service to a newly created water service room are also part of the general scope of work for this project.

**11) ADDENDA**

The undersigned acknowledges receipt of Addenda Numbers \_\_\_\_\_ through \_\_\_\_\_ inclusive, and that the price, or adjustment thereof, for all work required therein is included in this proposal.

**12) SEPARATE PRICES**

**Not Applicable**

**13) UNIT PRICES**

**Not Applicable**

**14) ALTERNATE PRICES**

It is accepted that the intent of alternate prices is to allow the Owner to select an alternate scope of work at a price which is declared below, and solely at the owner's discretion.

The following prices have not been included in the Base Bid amount. The following prices, if accepted by the owner, shall include all labour, material, tools, equipment, overhead and profit, but exclude H.S.T. No other cost consideration shall be added to the contract for the scope of this work if accepted by the owner.

**Alternate Price #1:**

In lieu of providing new replacement windows (55) only, provide the cost of carefully removing the existing windows & frames, store and reinstall coordinated with ongoing masonry restoration. Provide new wall flashing brackets, closures, waterproofing, and sealants. Provide costs related to the installation of a 190mm deep stone sill with support clip in lieu of standard 90mm stone sill without support clip. Entirely clean all units, ensure all glazing is in good condition without seal breaks, ensure all insect screens are in as new condition and repair any defects with frames, windows and hardware. Assume all liability for damage. Refer to Drawing details on Drawing A625.

Extra \$ \_\_\_\_\_ Credit \$ \_\_\_\_\_  
(Complete only the appropriate Value Change)

**Alternate Price #2:**

In lieu of providing new LED light fixtures (156 fixtures) as indicated on A2 type fixtures shown on E100 Electrical Legend, Drawings List, Schedules, Abbreviations, Site Plan, Details and General Electrical Notes; refer to Luminaires Schedule – A2 type fixture and drawing E200 Ground Floor Plan Lighting and Fire Alarm, provide the cost of carefully removing all existing (200 fixtures) retrofitted fixture, store and reinstall fixtures into ceiling when above Ceiling work is complete. Coordinate with ongoing Lay-in Ceiling Tile work. Entirely clean all fixtures and ensure all boxes and lenses are in good condition and fixtures are in as new condition. Assume all liability for damage.

Extra \$ \_\_\_\_\_ Credit \$ \_\_\_\_\_  
(Complete only the appropriate Value Change)

**15) LIST OF SUBCONTRACTORS**

The following is the list of subcontractors to which reference is made on the submitted Bid Form.

No changes to the List of Subcontractors will be allowed without the Consultant's express written permission.

List each subcontractor by his firm's proper legal designation, and indicate whether his business is carried on as an individual, partnership, or limited company.

The bidder submits that in proposing the listed subcontractors, he has consulted each and has ascertained to his complete satisfaction that those named are fully acquainted with the extent and nature of the work involved and of the proposed construction schedule, and that they will execute their work to conform to the requirements of the Contract Documents.

**List of Subcontractors:**

Demolition	_____
Masonry	_____
Steel	_____
Glazing	_____
Metal Siding	_____
Mechanical	_____
Electrical	_____

**16) EXECUTION OF CONTRACT**

The Contract form will be a standard Canadian Construction Documents Committee (CCDC) #2 2008 - Stipulated Sum Contract.

SIGNATURE:	_____
NAME PRINTED:	_____
TITLE:	_____
COMPANY:	_____
ADDRESS:	_____
	_____
PHONE:	_____
FAX:	_____
DATE:	_____

**END OF BID FORM**

**PART 1 - GENERAL**

**1.1. Description**

**1.1.1. General Requirements**

1.1.1.1. Division 1, General Requirements, is a part of this Section and shall apply as if repeated here.

**1.1.2. Work performed by other Sections related to this Section is specified in:**

1.1.2.1. Section 10800: Washroom, Toilet and Bath Accessories.

**1.2. Quality Assurance**

**1.2.1. SubContractor Qualifications**

1.2.1.1. Provide products specified in this Section only by a fabricator who has adequate plant, equipment, and skilled tradesmen to perform it expeditiously, and is known to have been responsible for satisfactory installations similar to that specified during a period of at least the immediate past five years.

**1.3. Submittals**

**1.3.1. Shop Drawings**

1.3.1.1. Submit shop drawings to show the proposed system of anchorage and Materials being supplied. Indicate all panel dimensions and arrangements as identified in drawings.

1.3.1.2. Show hardware items, anchorage devices, location dimensions, description of materials and finishes, and all other pertinent information.

**1.3.2. Samples**

1.3.2.1. Submit 2 samples of hardware and partition finish samples. Include typical base mounted sample of a pilaster and shoe.

**1.4. Delivery, Storage and Handling**

1.4.1. Package materials to protect finished surfaces during handling and storage.

**1.5. Warranty**

1.5.1. Warrant work and product of this section for a period of two years from date of substantial completion.

## **PART 2 - PRODUCTS**

### **2.1. Compartments**

- 2.1.1. Toilet partitions shall be:
  - 2.1.1.1. Of floor mounted, headrail / overhead braced type by : Basis of Specification Bobrick - 1088 Duraline Series Floor Mounted. or approved alternative.
  - 2.1.1.2. Colour: As selected from standard colours supplied by manufacturer, up to 2 colours to be selected for Project.
  - 2.1.1.3. Equip with standard hardware and fittings to include concealed door latches, doorstop/keeper, pivot hinges, and combined collapsible coat hook and bumper.

### **2.2. Materials**

- 2.2.1. **Solid Phenolic Material**: Solidly fused plastic laminate with matte-finish surfaces, coloured face sheets and black phenolic resin core with exposed meilled and polished edges.
- 2.2.2. **Plastic Laminate Facing**: to meet requirements of CAN3-A172-M79, Grade (GP) R
- 2.2.3. **Stainless Steel**: AISI Type 304 with satin finish.
- 2.2.4. **Aluminum Extruded Trim**: AA 6063-T5 alloy with stain finish and temper.
- 2.2.5. **Hardware and Accessories**
  - 2.2.5.1. Hinges: Barrel type: High-tensile stainless steel; preadjusted to leave doors open 152 mm in unoccupied position, with self lubricating thermo plastic bearings. Cam shall be adjustable in field to permit fully closed or partially open. Metal to metal connection shall withstand 454kg (1000 lb) per screw.
  - 2.2.5.2. Latches: High-tensile stainless steel. Latch bolt of stainless steel. Face plates, keepers, stops and housings of high-tensile stainless steel. Rubber bumpers on stops. Latch shall slide on nylon track. Latches shall require less than 2.3kg (5lb) force to operate. Twisting latch shall not be twisting latch operation. Latch track shall be attached to the door by flathead machine screws into factory installed treaded brass inserts. Latch shall allow door to be lifted over 1.6mm keeper for emergency access. Door pull for barrier free enclosure. Metal to metal connection shall withstand 454kg (1000 lb) per screw.
  - 2.2.5.3. Coat Hook and Bumper: High-tensile cast aluminum, or stainless steel., with rubber bumper. For doors that swing out, install rubber bumper on outside of door and separate coat hook on inside.
  - 2.2.5.4. Door Pull: High-tensile stainless steel;



2.2.6. **Fitting and Fastenings**

- 2.2.6.1. Pilaster Shoes shall be one-piece, 102mm (4") high, Type 304 with satin finish 0.8mm (0.03") thick. Top shall have 90 degree turn to stile. Shoe shall be composed of one-piece of stainless steel and be capable of being fastened (by clip) to stiles starting at wall line.
- 2.2.6.2. Brackets: high-tensile stainless steel Type 304 with satin finish. 1.2mm and extend full height of panel. U-channels shall be furnished for panel stile mounting. Angle brackets shall be furnished for panel to wall mounting.
- 2.2.6.3. Levelling Device: 5mm (3/16) hot rolled steel bar; chromate-treated and zinc plated; through-bolt to solid phenolic stile.
- 2.2.6.4. Fastenings: theft-proof chromium plated, stainless steel Type 304 with satin finish where exposed.
- 2.2.6.5. Pilaster Anchor Devices and Bolts. One way, theft proof, thru-bolts, steel, galvanized, zinc coated.

2.3. **Finishes**

- 2.3.1. Galvanizing: To meet specified requirements of ASTM Specification A525, zinc coated designation Z275; and where wipe coated, zinc coating designation ZF75.
- 2.3.2. Stainless Steel; Type 304 with satin finish
- 2.3.3. Chromium Plating: Satin finish.
- 2.3.4. Baked Enamel: to meet requirements of CGSB Specification 1-GP-88 M and ASTM B-117-64, minimum thickness of 1 mill.

2.4. **Fabrication**

2.4.1. **Panels, Door and Pilasters**

- 2.4.1.1. Fabricate doors and pilasters of solid 19 mm core with a plastic laminate face on each side.
- 2.4.1.2. Fabricate panels of solid 13mm core with a plastic laminate face on each side
- 2.4.1.3. Laminate face substrate to core by high pressure method.
- 2.4.1.4. Edges of all components shall be bevelled and burnished to expose the solid substrate.
- 2.4.1.5. Reinforce panels for grab bar anchorage to withstand downward force of 227 kg per grab bar.

2.4.2. **Headrail**

- 2.4.2.1. Fabricate of high-tensile cast aluminum, or stainless steel, minimum 25 mm x 45 mm, anti-grip design.
- 2.4.2.2. Locate any intermediate joints with pilaster extension.

2.4.3. **Pilaster Anchorage and Shoes**

- 2.4.3.1. Incorporate for anchorage of pilaster to floor or floor plate, or ceiling support by two 9.5 mm dia. zinc coated bolts.
- 2.4.3.2. Incorporate for levelling and plumbing anchor bolts, and for their permanent securing in place by locked nuts to prevent subsequent movement.
- 2.4.3.3. Fabricate anchorage assembly to transfer lateral and withdrawal forces directly to structure.
- 2.4.3.4. Conceal pilaster anchorage with 75 mm high stainless steel shoes secured by concealed fastening.

2.4.4. **Hardware**

- 2.4.4.1. Hinges: Non-gravity, and with adjustable positioning stop for hold door partially open when unlatched, operating mechanism concealed within door, nylon bearings and no vertical movement when door is operated.
- 2.4.4.2. Latches: Surface mounted. Latches must be designed such that door can be opened from outside the compartment in an emergency situation.

2.4.5. **Compartments**

- 2.4.5.1. Fabricate standard compartments with:
  - : 610 mm wide x 1460 mm high doors.
  - : 300 mm wide pilasters, 2080 mm high.
  - : 1400 mm wide x 1460 mm high panel partitions.Or as indicated on Drawings.
- 2.4.5.2. Fabricate compartments for use by handicapped persons as for standard compartments, except provide greater width of doors, panels and pilasters to ensure minimum interior stall space as indicated on drawings, out-swinging door 813 mm minimum wide, and separate collapsible coat hooks and bumpers.
- 2.4.5.3. Include closure pilasters, end pilasters, closure panels, and head bracing where required by building conditions.
- 2.4.5.4. Include in each compartment a latch, a combined coat hook and bumper located to properly function as a door stop.

**PART 3 - EXECUTION**

**3.1. Examination**

- 3.1.1. Take field dimensions of completed construction upon which installation of products specified in this Section depends before fabrication. Field adaptation of products fabricated in error or without field check will not be allowed without approval.

**3.2. Installation**

- 3.2.1. Erect products specified in this Section straight, plumb, level, and secured to prevent distortion or displacement, or both.

- 3.2.2. Do not exceed a clearance of 13 mm between panels and pilasters.
- 3.2.3. Ensure uniform clearances at vertical door edges of no greater width than 4.8 mm.
- 3.2.4. Fasten panels and pilasters to walls with "U" brackets.
- 3.2.5. Secure brackets to walls with only
  - : 38 mm long expansion shields of hollow masonry or in concrete.
  - : toggle bolts in cells of hollow masonry units.
  - : sheet metal screws into metal framing at metal stud partitions.
- 3.2.6. Ensure that panels to which grab bars are secured are adequately anchored to structure to withstand specified force exerted on grab bars.
- 3.2.7. Use only fasteners that match material and finish of fastened products where exposed to view.
- 3.2.8. Install compartments and screens complete with anchorage of pilasters to supports, fastening of panels and pilasters to each other and to building walls, hanging of door and attachment of bracing, closures, and specified accessories.

**3.3. Adjustment and Cleaning**

- 3.3.1. Adjust operating hardware to work smoothly and without force. Adjust hinges of toilet compartment doors so that all doors remain open to the same degree when unlatched.
- 3.3.2. Refinish damaged or defective surfaces of products so that no variation in surface appearance is discernible. Refinish products at site only if approved.
- 3.3.3. Remove from products soil and dirt deposits resulting from fabrication and installation.
- 3.3.4. Final cleaning is specified in Section 01710.

**End of Section**

25 April 2018

Page 1 of 3

Plus Hydrel Metering Cabinet Specifications and  
Reissued Drawings E200, E300, E400 and E401.

## **ADDENDUM NO. 1**

Make the following amendments and additions to the Drawings and Specifications, and include this cost in the Contract Price.

### **1. MECHANICAL SPECIFICATIONS**

#### **1. Section 15001 - Mechanical General Provisions**

1. Insert Clause 3.27.1.3:

3.27.1.3 \$5,000.00 to cover the cost of having Union Gas Limited rework the natural gas service to the building.

#### **2. Section 15600 - Heating**

1. Revise Clause 2.23.3.1 as follows:

2.23.3.1 Panels and access doors shall be constructed as a 50-mm (2") nominal thick, thermally broken double wall assembly, injected with foam insulation for an R-value of not less than R-13. The outer casing shall be constructed of galvanized steel, phosphatized and painted with a polyester resin topcoat with a natural beige color. Finished panel surfaces must withstand a minimum 750-hour salt spray test in accordance with ASTM B117 standard for salt spray resistance.

2. Clause 2.23.15: Add "Trane" to the list of equals.

3. Clause 2.23.15: Add "Aeon" to the list of equals.

#### **3. Section 15800 - Air Distribution**

1. Clause 2.13.4: Add "Greenheck" to the list of equals.

\continued.....

## **2. MECHANICAL DRAWINGS**

### **1. Drawing M201 - Ground Floor Plan - Plumbing**

1. Add note 3, "Generally, all new piping installed within ceiling space is to be installed as high as possible and through existing OWSJ webbing."
2. Add note to boilers, "Modify existing condensate drainage from boilers to run neatly around existing housekeeping pad and to avoid foot traffic to floor drain east of boilers."
3. Add note to existing boiler room floor drain adjacent to existing boilers, "Provide new floor drain where existing floor drain was capped. Modify sanitary piping to suit."

### **2. Drawing M202 - Plumbing Details**

1. Domestic Hot Water System Schematic: Revise size of domestic cold and hot water piping to and from water heater from 80mm to 50mm.

### **3. Drawing M301 - Ground Floor Plan - Fire Protection**

1. Add note 2, "Generally, all new piping installed within ceiling space is to be installed as high as possible and through existing OWSJ webbing."

### **4. Drawing M401 - Ground Floor Plan - Heating**

1. Add note 9, "Generally, all new piping installed within ceiling space is to be installed as high as possible and through existing OWSJ webbing."

### **5. Drawing M501 - Ground Floor Plan - Air Distribution**

1. Delete one of two return grilles and boot, RG-2, in room 125. Delete one of two 250mm X 150mm transfer ducts and fire dampers in corridor wall between room 125 and CR 12.
2. Add note 5, "Allow for removal and replacement of 15m (50ft) of 250mm (10") insulated round ductwork in CR 12 to allow for installation of new domestic water and sprinkler piping within OWSJ webbing. Install new ductwork below existing OWSJ."

### **6. Drawing M701 - Ground Floor Plan - Plumbing Demolition**

1. Add note 2, "Allow for removal and replacement of 4 existing freeze proof wall hydrants. Modify existing piping to suit."
2. Remove existing wall mounted fire extinguisher on north wall of existing electrical room adjacent to existing boiler room.

\continued.....

**7. Drawing M703 - Ground Floor Plan - Air Distribution Demolition**

1. Add note 2, "Allow for removal and replacement of three 300mm X 250mm brick vents. Allow for removal and replacement of 1,220mm X 1,220mm louvre. Modify ductwork to suit."

**3. ELECTRICAL SPECIFICATIONS**

**1. Section 16400 - Service and Distribution**

1. Add Hydrel Metering Cabinet specifications attached to Appendix A.

**4. ELECTRICAL DRAWINGS**

**1. Drawing E100 - Electrical Site Plan**

1. Revise Note 3.1 to read: "Supply only CTS"
2. Revise Note 3.3 to read: "Disconnect/Reconnect secondary transformer HYLUGS"

**2. Drawing E200 - Ground Floor Plan - Lighting and Fire Alarm**

1. Reissue Drawing E200 in its entirety.

**3. Drawing E300 - Ground Floor Plan - Power and Systems**

1. Reissue Drawing E300 in its entirety.

**4. Drawing E400 - Ground Floor Plan - Lighting and Fire Alarm Demolition**

1. Reissue Drawing E400 in its entirety.

**5. Drawing E401 - Ground Floor Plan - Power and Systems Demolition**

1. Reissue Drawing E401 in its entirety.

**END OF ADDENDUM NO. 1**

CUSTOM

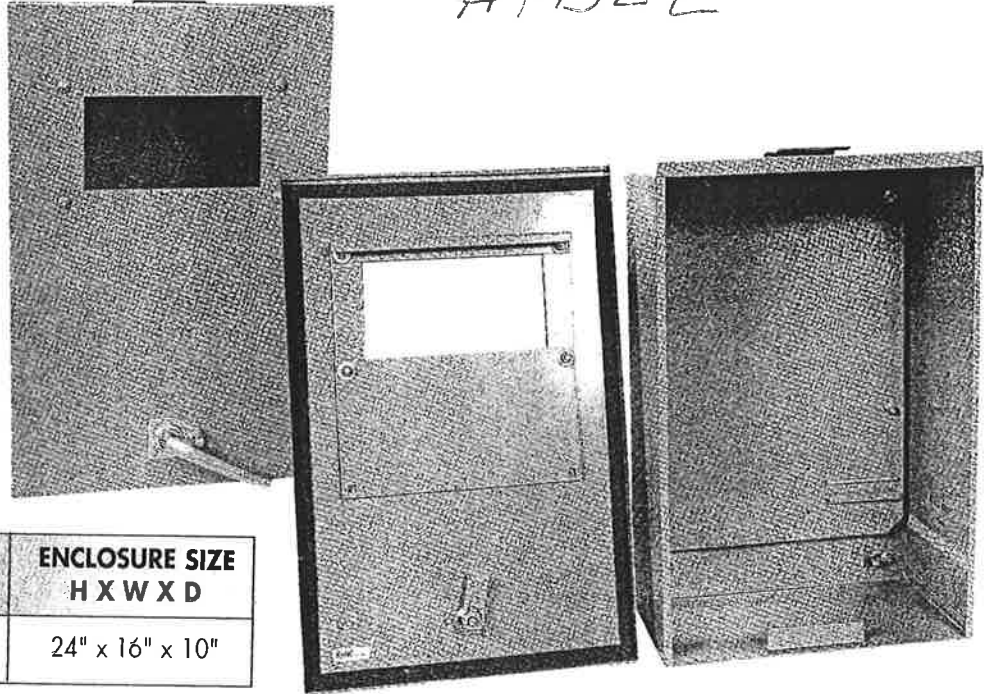
# Custom Enclosures



## ONTARIO HYDRO / SCARBOROUGH ENCLOSURES

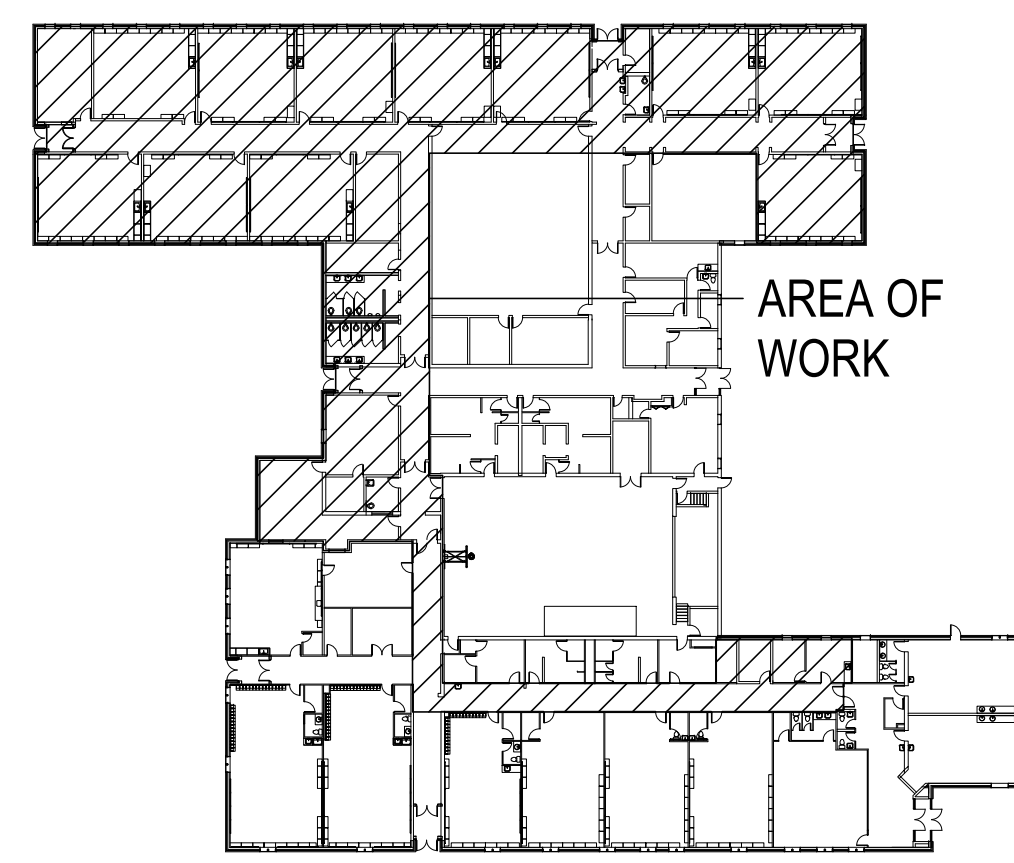
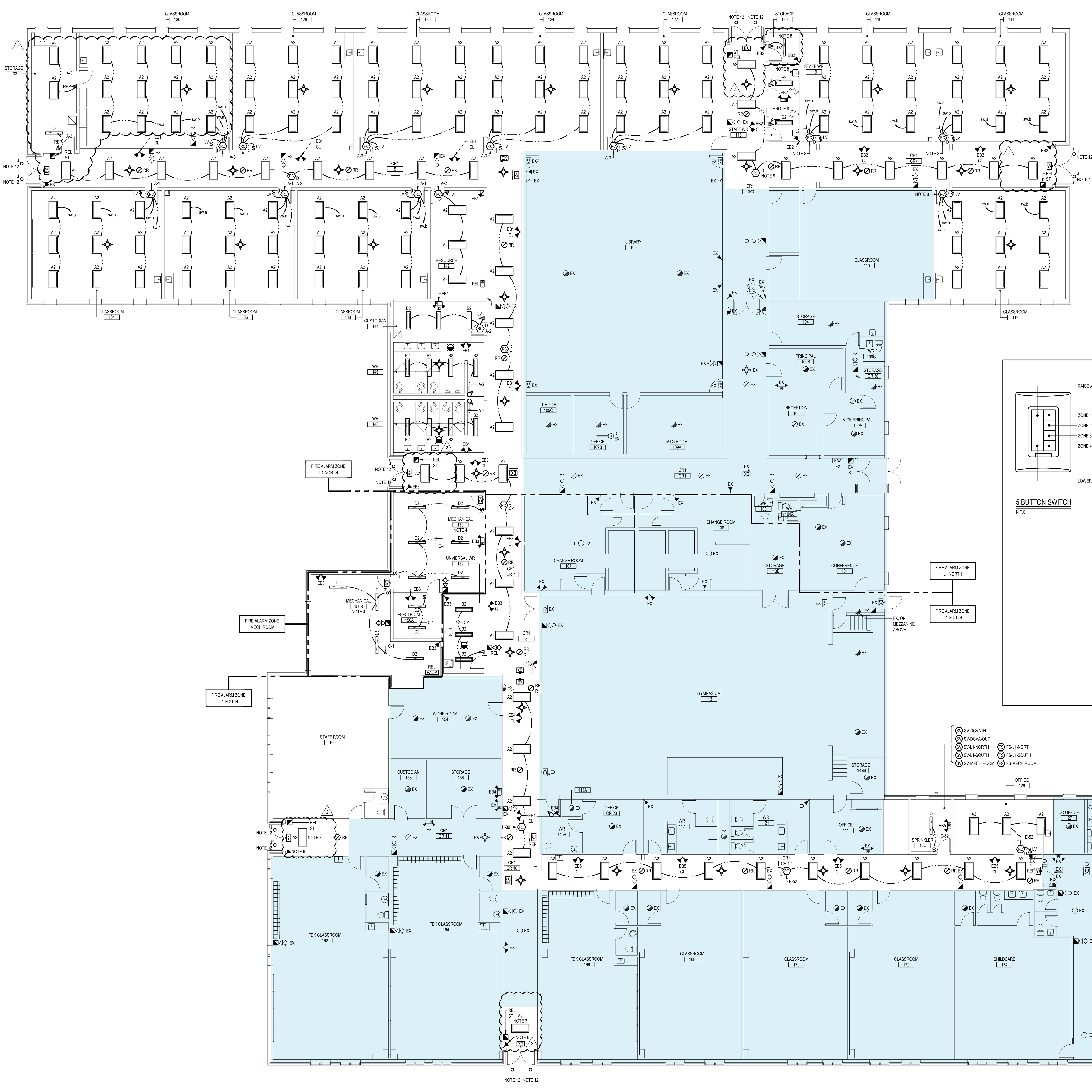
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Meter Cabinet

HYDEL

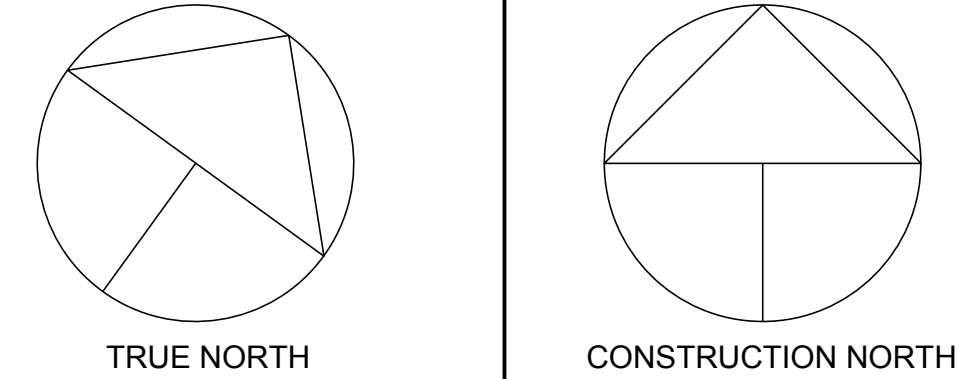


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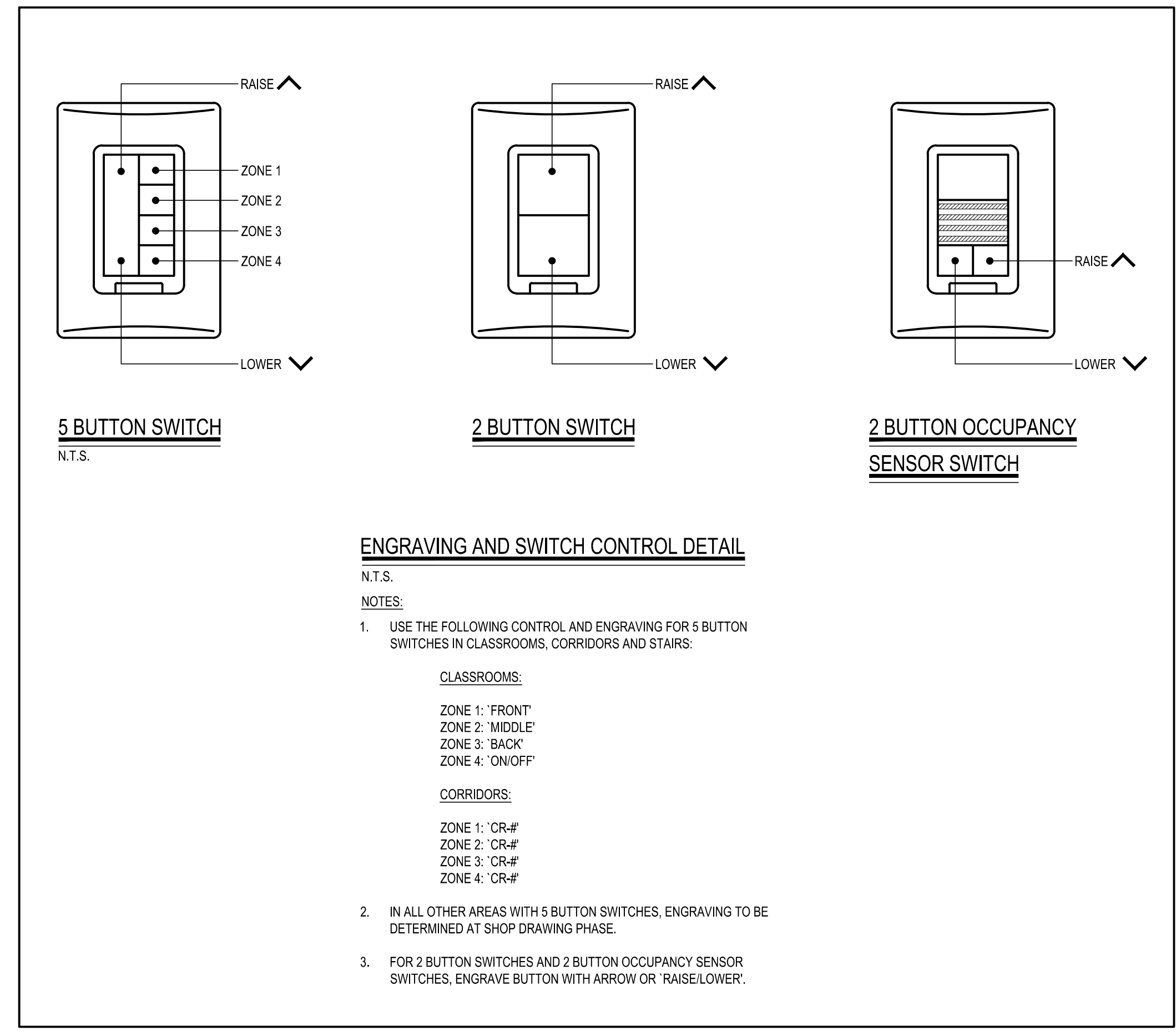




KEY PLAN



NOTES



LEGEND

**GROUND FLOOR PLAN - LIGHTING AND FIRE ALARM**

- SCALE: 1:100
- NOTES:
- REUSE EXISTING RECESSED DEVICE BOXES AND VERTICAL CONDUIT WHERE PRACTICABLE.
  - CONNECT ALL NEW LIGHTING TO CIRCUIT SHOWN. REWORK EXISTING CABLING AND CONDUIT AS PRACTICABLE.
  - CONNECT TO EXISTING SWITCHED LIGHTING CIRCUIT IN ADJACENT CORRIDOR.
  - ADJUST LUMINAIRE LOCATION AS REQUIRED TO AVOID CONTACT WITH MECHANICAL PIPING, DUCTWORK, ETC.
  - CIRCUIT EMERGENCY LIGHTING BATTERIES AS FOLLOWS:  
EBB1-A2      EBB1-E-2  
EBB1-B-2      EBB1-F-2  
EBB1-C-1      EBB1-G-2  
EBB1-D-1      EBB1-H-2
  - CONNECT TO EXISTING BATTERY SERVING EMERGENCY LIGHTING IN ADJACENT CORRIDOR.
  - CONNECT NEW EXT. SIGNS TO 15A 1P BREAKER IN NEW MAIN DISTRIBUTION BOARD (MDF); REFER TO SINGLE LINE DIAGRAM FOR DETAILS.
  - CONNECT NEW LIGHTING IN THIS AREA TO SPACE 15A 1P BREAKER IN PANEL B. REWORK EXISTING CABLING AND CONDUIT AS PRACTICABLE.
  - ALL (LV) TO BE 5 BUTTON SWITCHES UNLESS INDICATED OTHERWISE ON FLOOR PLANS AND (AV) TO BE 2 BUTTON OCCUPANCY SENSOR SWITCHES UNLESS INDICATED OTHERWISE ON FLOOR PLANS. REFER TO DETAIL ON THIS SHEET FOR EXACT BUTTON CONFIGURATIONS.
  - PROVIDE 152mm OF ADDITIONAL AC-90 FOR LUMINAIRES IN CORRIDORS CR1-A, CR1-B AND CR1-C TO ALLOW LUMINAIRES TO BE RELOCATED IN LATER PHASES.
  - PROVIDE WIRING FOR ALL LIGHTING AND FIRE ALARM DEVICES IN ROOMS 124, 150, 150A AND 150B.
  - CONNECT NEW EXTERIOR CANOPY LUMINAIRES TO EXISTING CIRCUIT AND LIGHTING CONTROLS SERVING EXISTING EXTERIOR LIGHTING IN THE AREA.

Date	Description	No.
APRIL 10, 2018	ISSUED FOR TENDER	1
APRIL 19, 2018	REISSUED FOR ADDENDUM #1	2



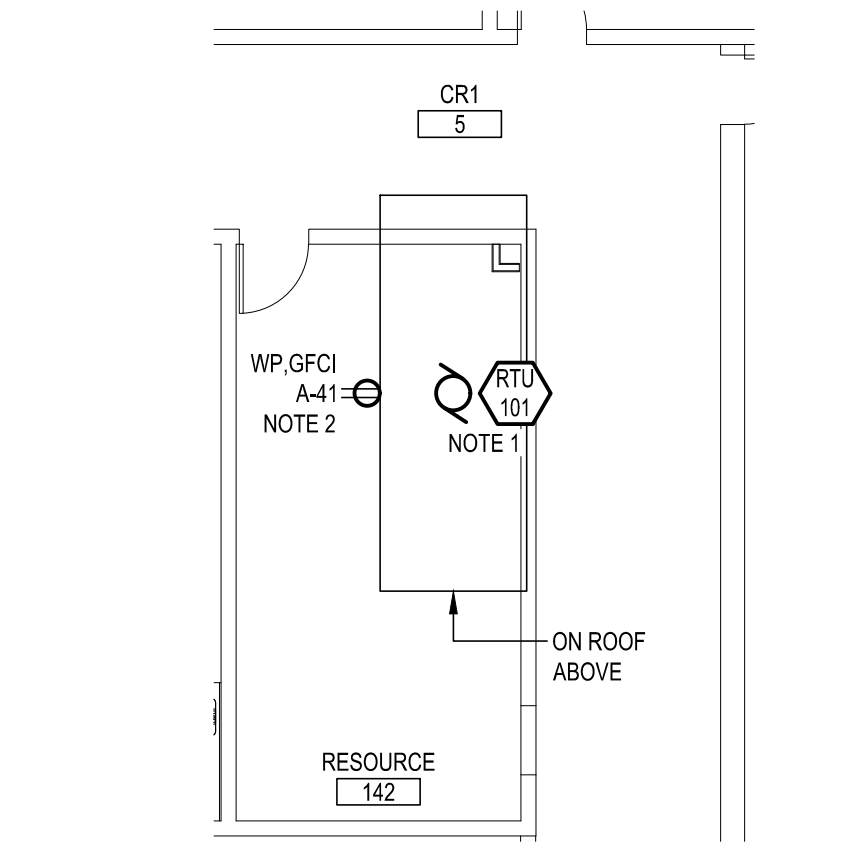
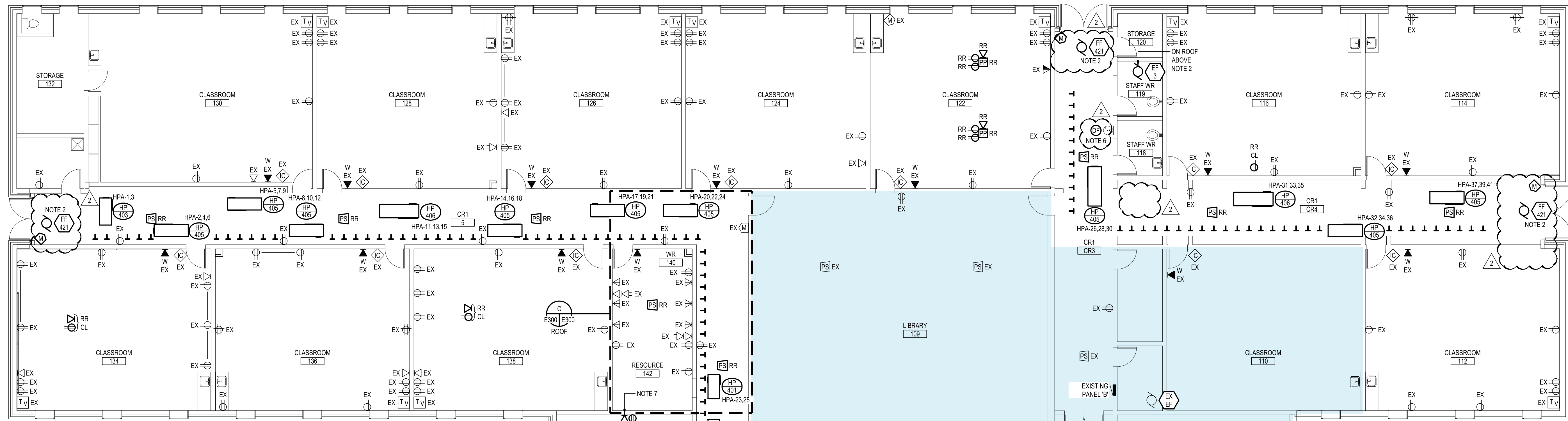
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**OUR LADY OF FATIMA PHASE 2 RENEWAL**

DRAWING TITLE  
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SCALE: AS NOTED	CHECKED BY: RDZ	<b>E200</b>
PROJECT NO.:	8391	

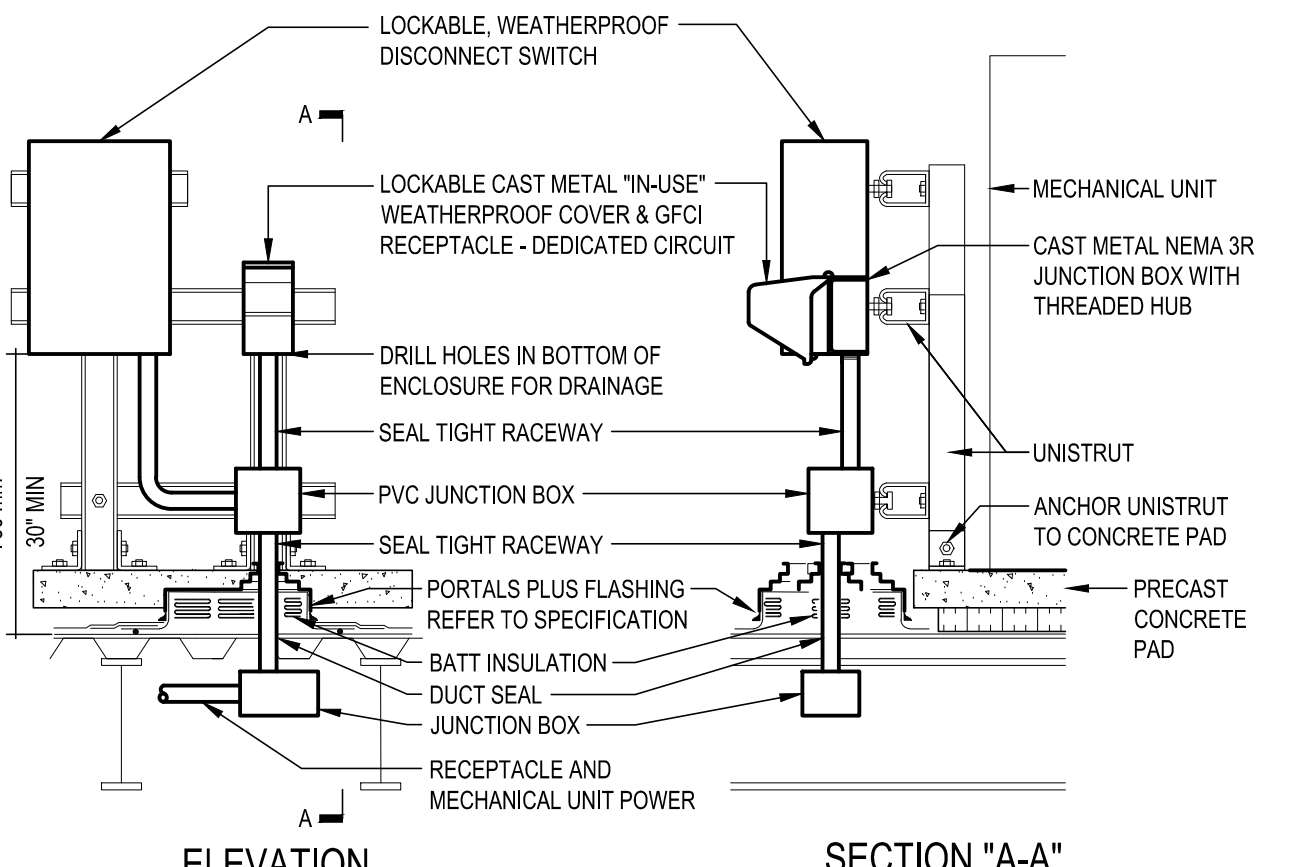


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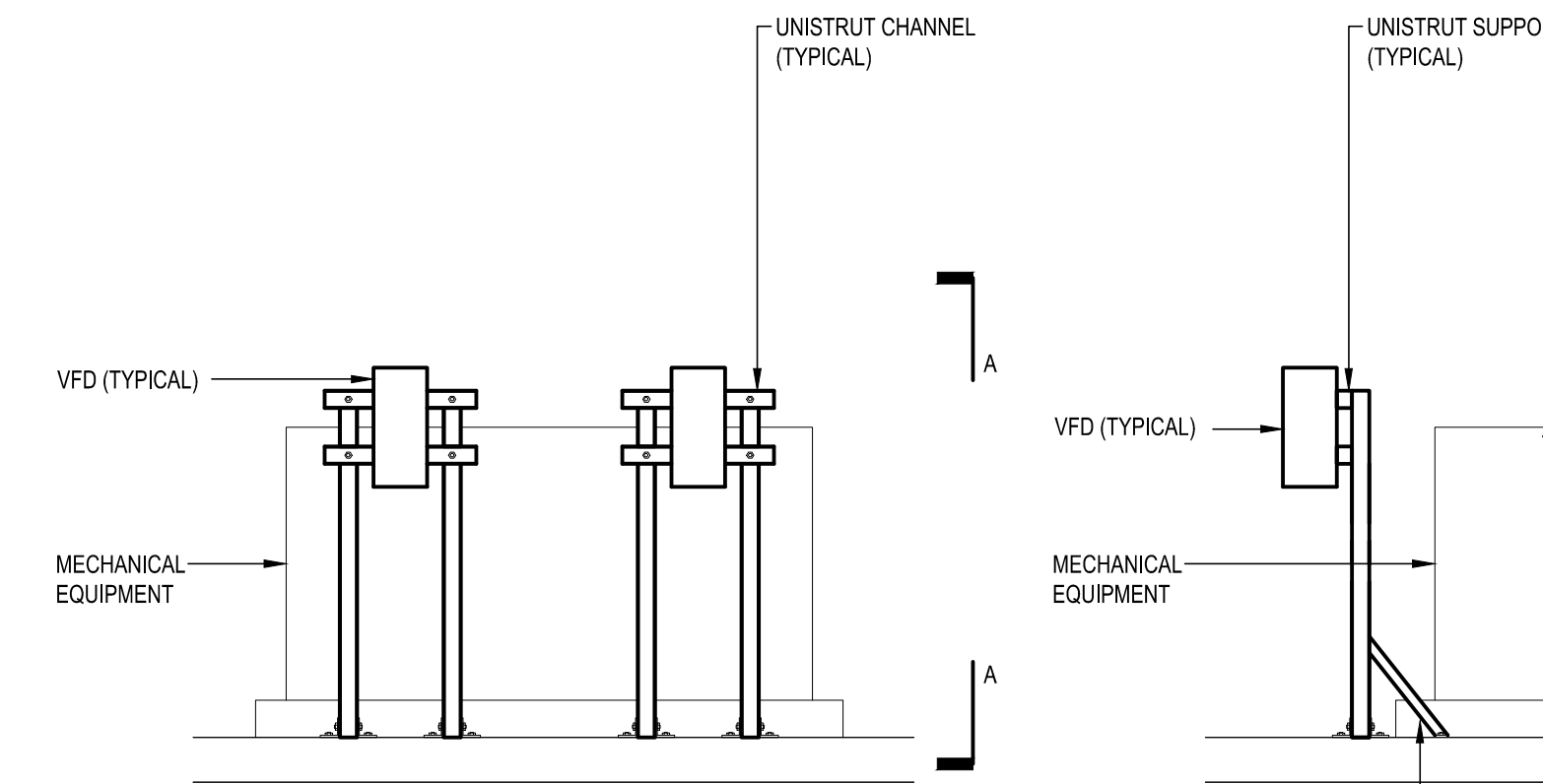
**GROUND FLOOR PLAN - POWER AND SYSTEMS**  
SCALE: 1:100

- NOTES:
- REFER TO ELECTRICAL SINGLE LINE DIAGRAM AND MECHANICAL EQUIPMENT SCHEDULES FOR ELECTRICAL REQUIREMENTS.
  - REFER TO RECEPTACLE ROOF MOUNTING DETAIL ON THIS SHEET FOR MOUNTING REQUIREMENTS.



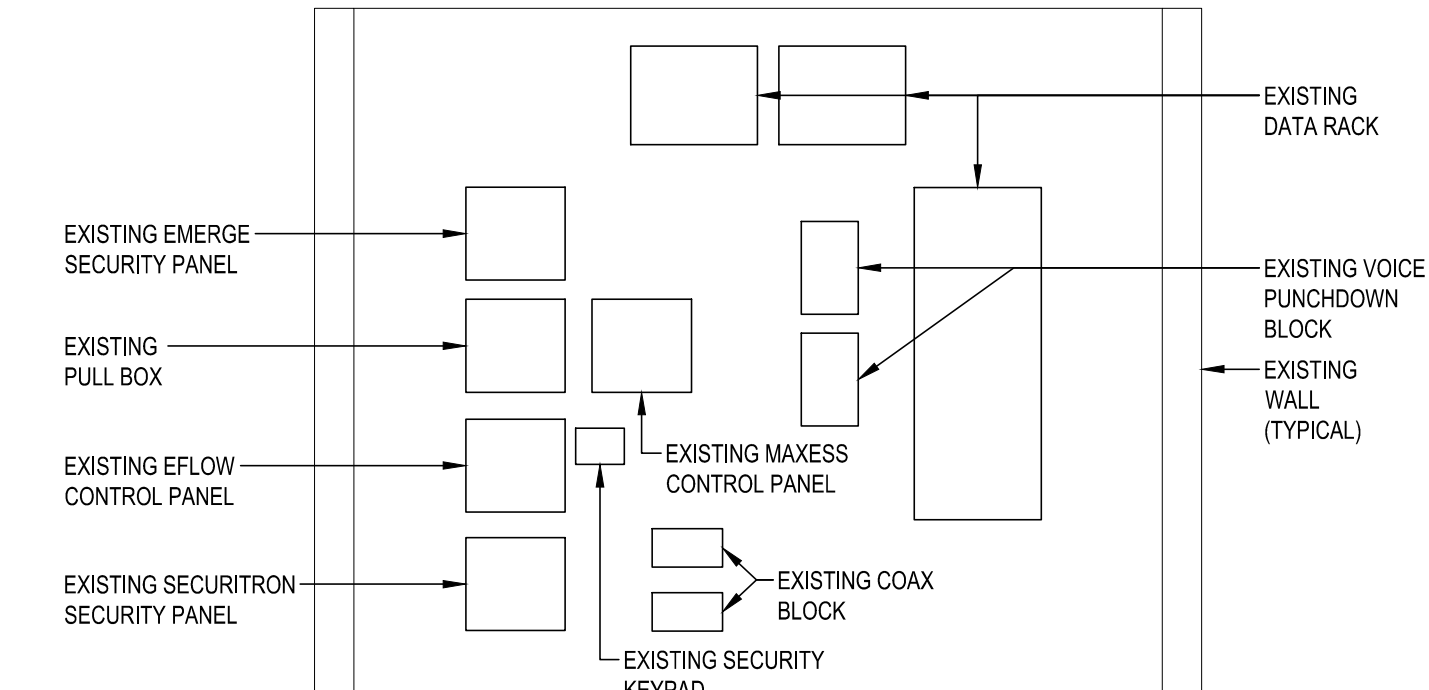
**RECEPTACLE ROOF MOUNTING DETAIL**  
N.T.S.

- NOTES:
- MAINTAIN A MINIMUM CLEARANCE OF 300mm (12") ON ALL SIDES OF ROOF PENETRATION FROM WALLS, CURBS, AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING.
  - FLANGES OF ADJACENT FLASHINGS SHALL NOT BE CUT OR OVERLAPPED.
  - COORDINATE FLASHINGS INSTALLATION WITH GENERAL CONTRACTOR TO ENSURE PROPER METHODS AND MATERIALS ARE USED TO MAINTAIN ROOF INTEGRITY.
  - COORDINATE PRECAST CONCRETE BASE REQUIREMENTS WITH OTHER TRADES.
  - ALL UNISTRUT AND ASSOCIATED MOUNTING HARDWARE TO BE ALUMINUM.
  - COORDINATE WITH DIVISION 15 FOR SHARED USE OF FLASHING WHERE SPECIFIED AND PRACTICABLE.

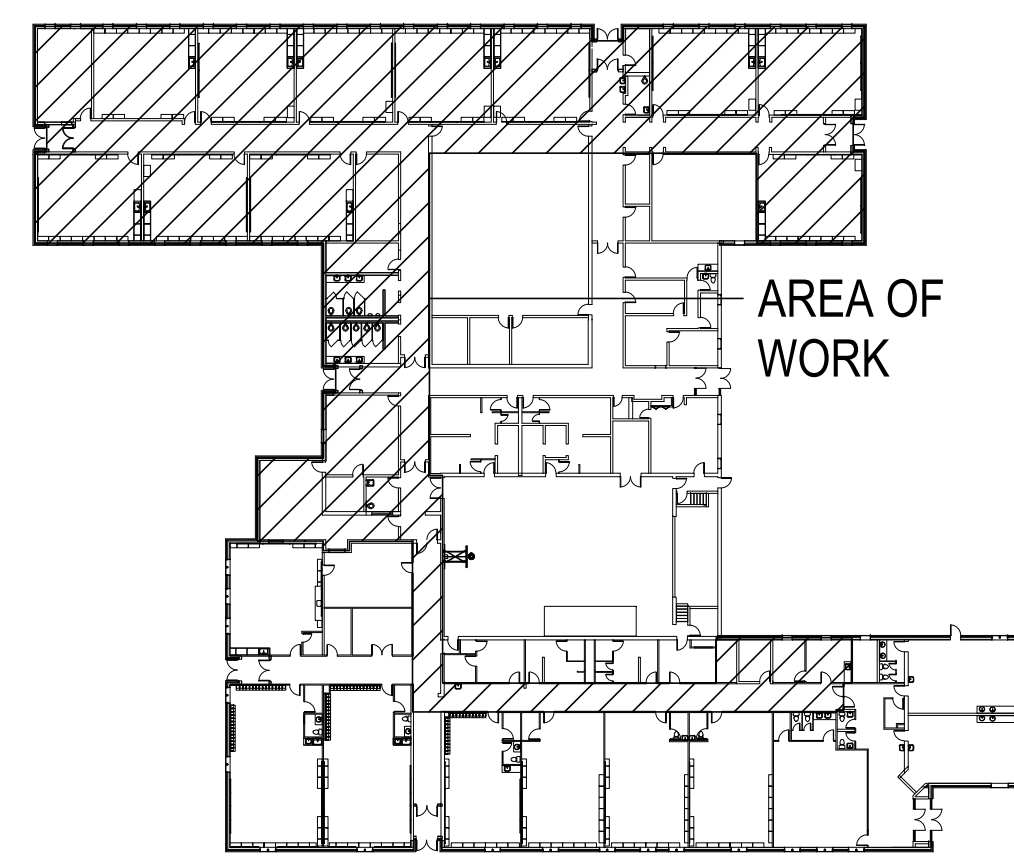


**TYPICAL VFD MOUNTING DETAIL**  
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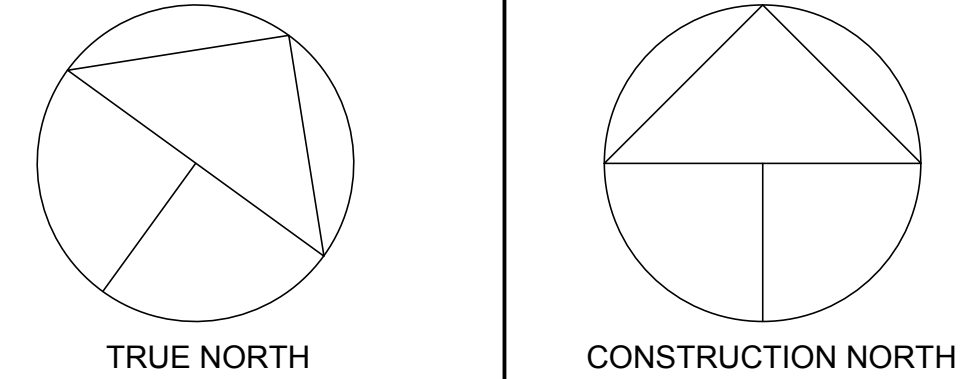
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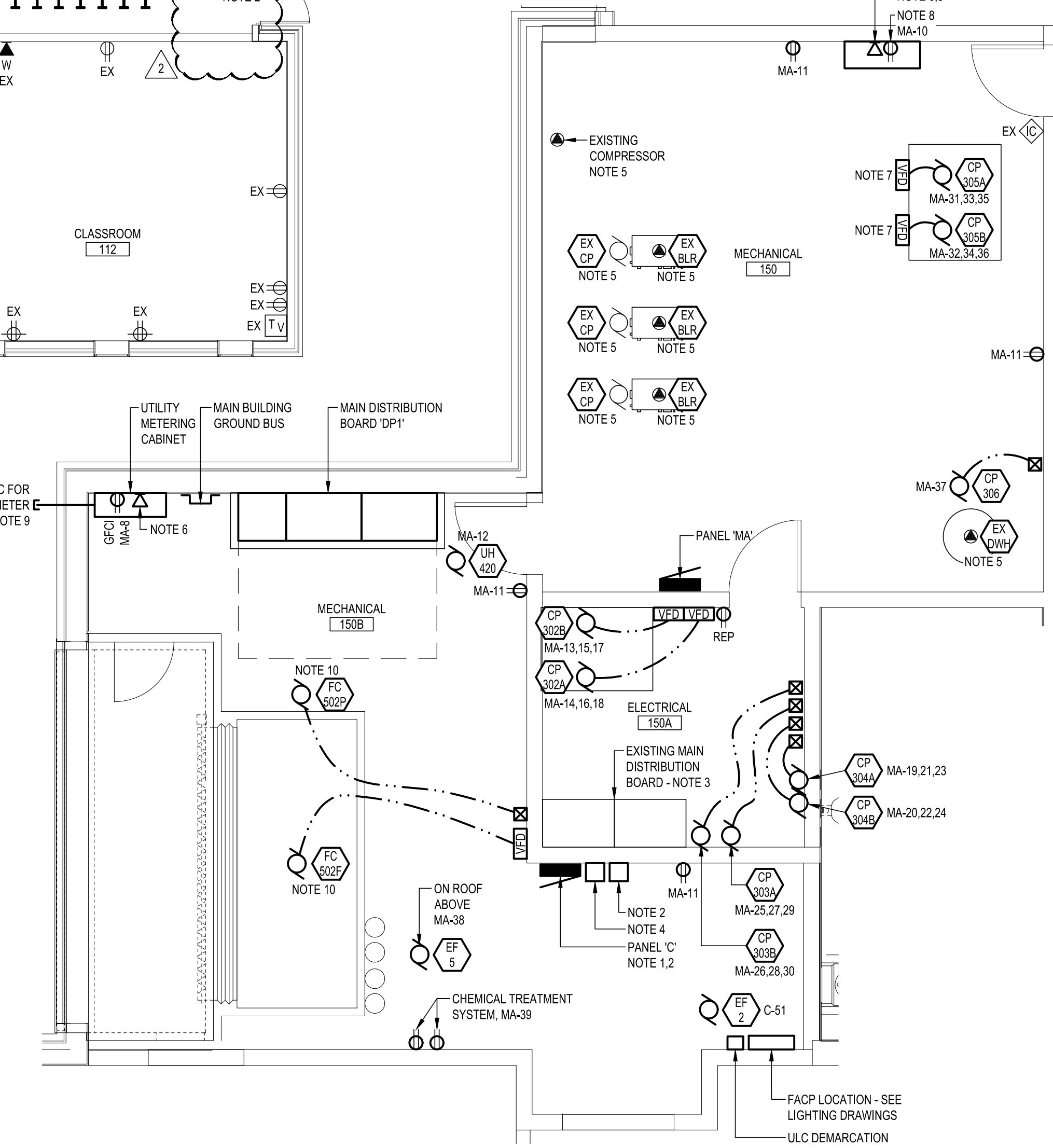
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**KEY PLAN**

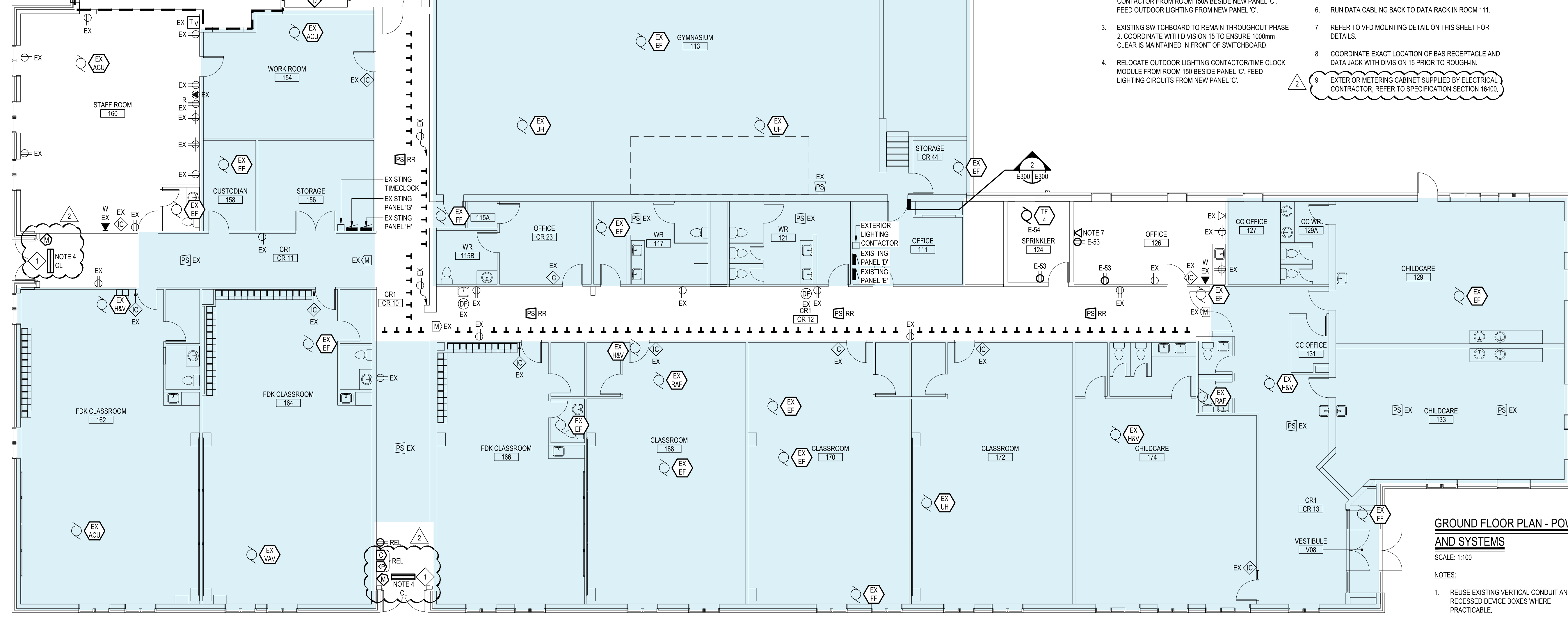


**NOTES**



**MECHANICAL ROOM DETAIL**  
SCALE: 1:50

- NOTES:
- PANELS 'C' AND 'PL' TO BE COMBINED. REWORK ALL BRANCH CIRCUITS TO THIS LOCATION.
  - RELOCATE OUTDOOR LIGHTING TIME CLOCK AND CONTACTOR FROM ROOM 154 TO BESIDE NEW PANEL 'C'. FEED OUTDOOR LIGHTING FROM NEW PANEL 'C'.
  - EXISTING SWITCHBOARD TO REMAIN THROUGHOUT PHASE 2. COORDINATE WITH DIVISION 15 TO ENSURE 1500mm CLEAR IS MAINTAINED IN FRONT OF SWITCHBOARD.
  - RELOCATE OUTDOOR LIGHTING CONTACTOR/TIME CLOCK MODULE FROM ROOM 150 BESIDE PANEL 'C'. FEED LIGHTING CIRCUITS FROM NEW PANEL 'C'.
  - REWORK EXISTING FEEDERS TO NEW DEDICATED BREAKERS IN PANEL 'M' (PREVIOUSLY FED FROM PANEL 'F'). REFER TO PANEL SCHEDULES FOR LIST OF REQUIRED BREAKERS.
  - RUN DATA CABLING BACK TO DATA RACK IN ROOM 111.
  - REFER TO VFD MOUNTING DETAIL ON THIS SHEET FOR DETAILS.
  - COORDINATE EXACT LOCATION OF BUS RECEPTACLE AND DATA JACK WITH DIVISION 15 PRIOR TO ROUGH-IN.
  - EXTERIOR METERING CABINET SUPPLIED BY ELECTRICAL CONTRACTOR. REFER TO SPECIFICATION SECTION 16400.
  - REFER TO ELECTRICAL SINGLE LINE DIAGRAM AND MECHANICAL EQUIPMENT SCHEDULES FOR ELECTRICAL REQUIREMENTS.



**GROUND FLOOR PLAN - POWER AND SYSTEMS**  
SCALE: 1:100

- NOTES:
- REMOVE EXISTING VERTICAL CONDUIT AND RECESSED DEVICE BOXES WHERE PRACTICABLE.
  - REWORK EXISTING WIRING AND CONDUIT INTO NEW EQUIPMENT. COORDINATE WITH DIVISION 15.
  - CONNECT NEW DRINKING FOUNTAIN TO EXISTING 15A 1P CIRCUIT SERVING REMOVED DRINKING FOUNTAIN. PROVIDE GFCI RECEPTACLE AND OUTLET BOX AS REQUIRED.
  - CONNECT NEW ELECTRIC HEATER TO EXISTING 15A 2P CIRCUIT SERVING REMOVED HEATER IN THIS LOCATION.
  - CONNECT TO EXISTING CORRIDOR PAGING ZONE IN THE AREA.
  - RUN DATA CABLE BACK TO DATA RACK IN ROOM 109C.
  - MOUNT ONE RECEPTACLE AT 280mm TO TOP OF PLATE AND ONE AT 220mm TO TOP OF PLATE.

Date	Description	No.
APRIL 10, 2018	ISSUED FOR TENDER	
APRIL 19, 2018	REISSUED FOR ADDENDUM #1	



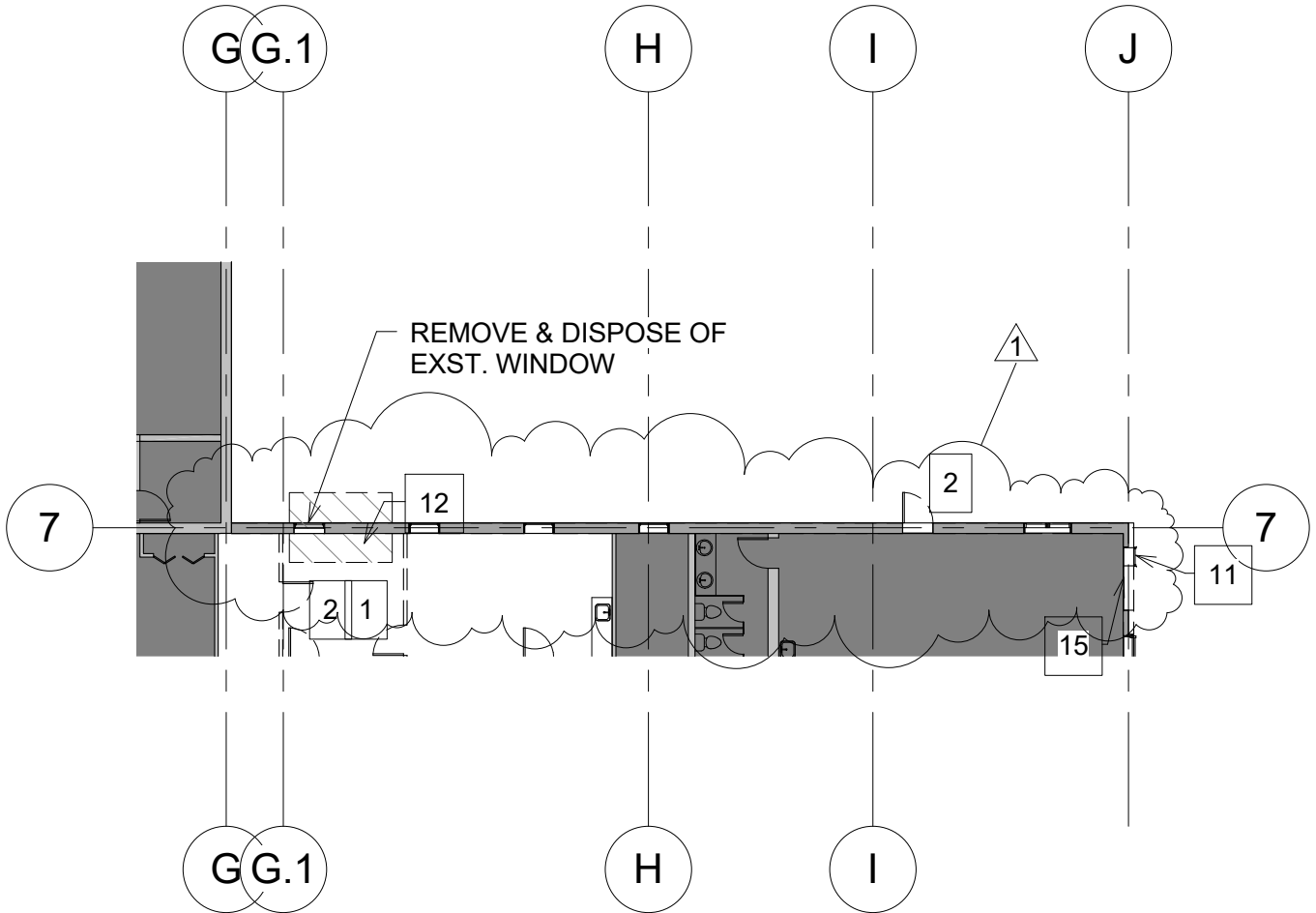
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DATE	04/10/2018	DRAWN BY	Z.R.
SCALE	AS NOTED	CHECKED BY	R.O.
PROJECT NO.	8351	DRAWING NO.	<b>E300</b>











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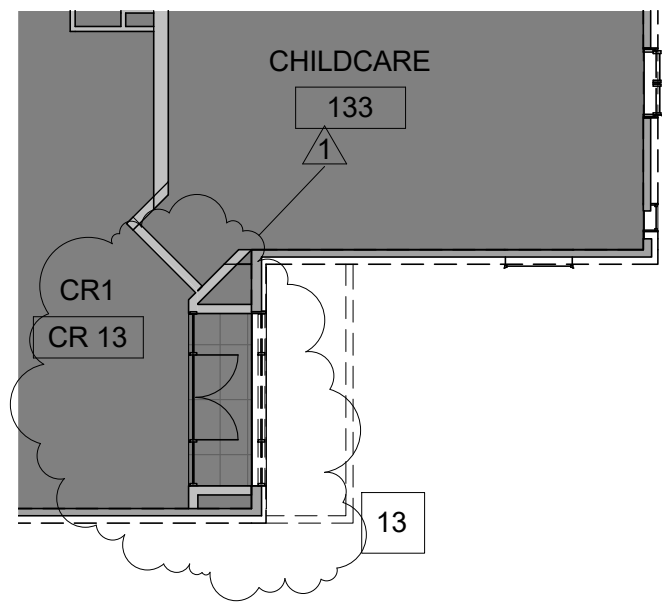
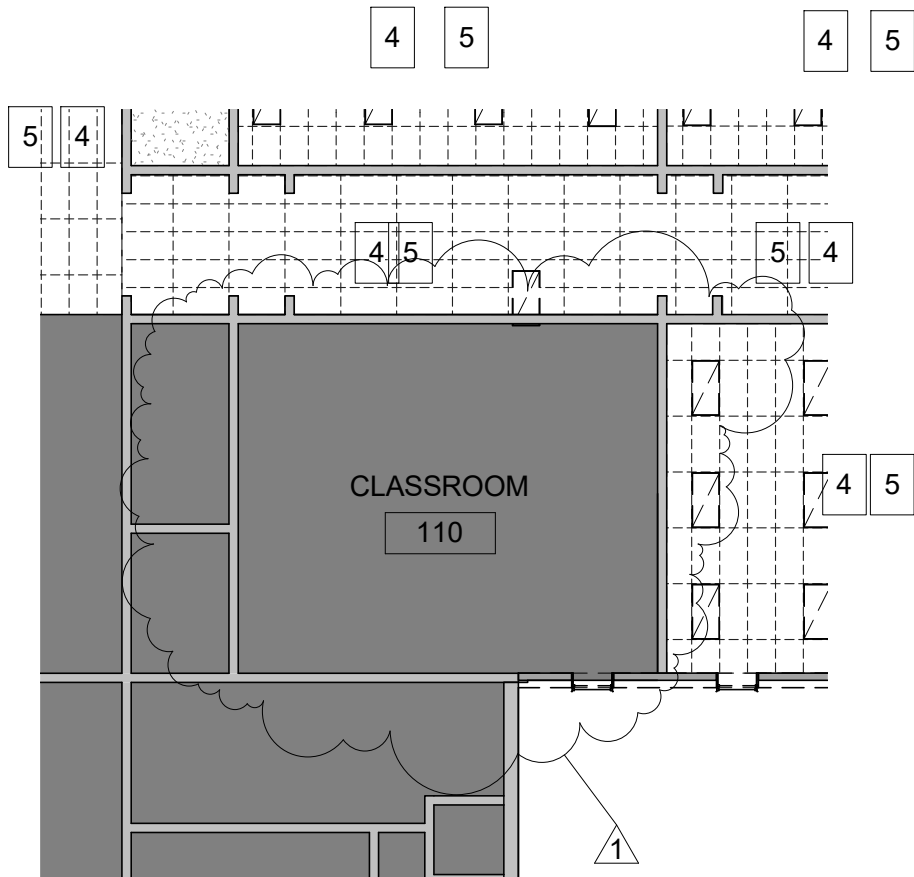
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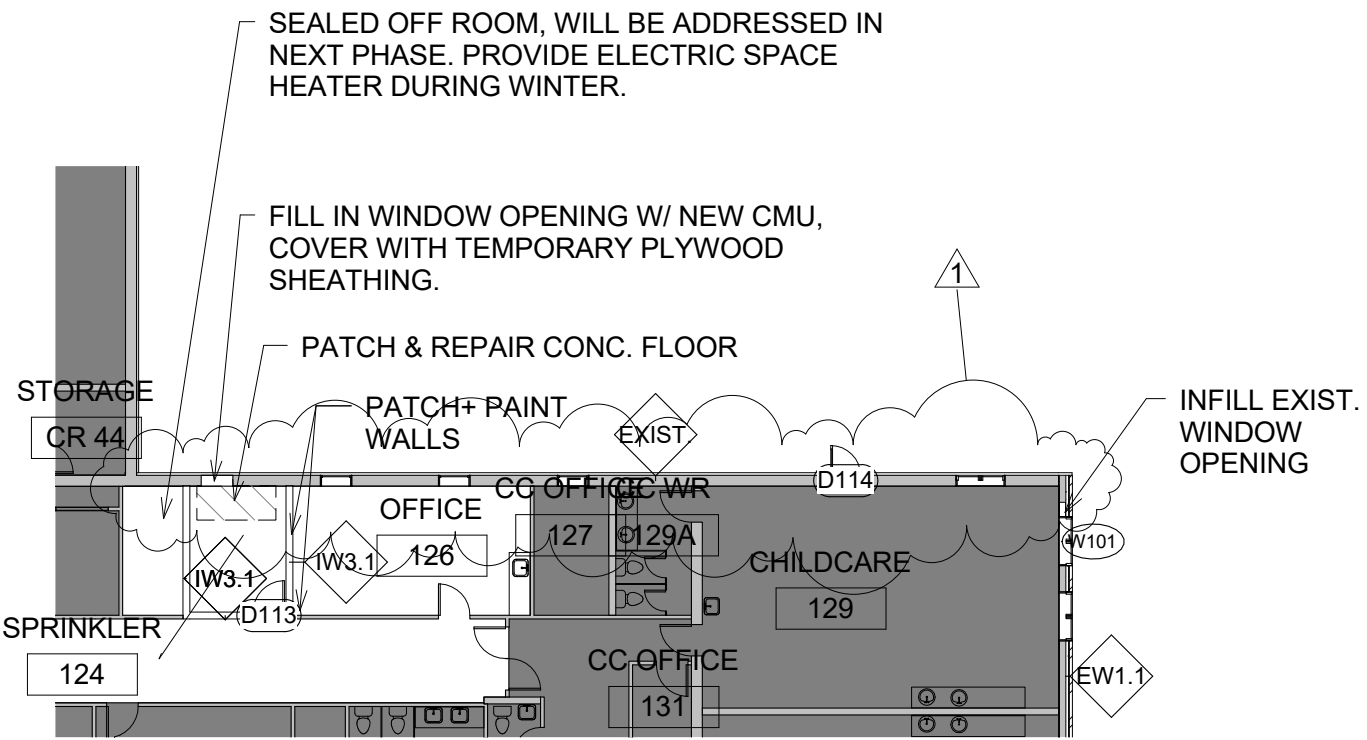
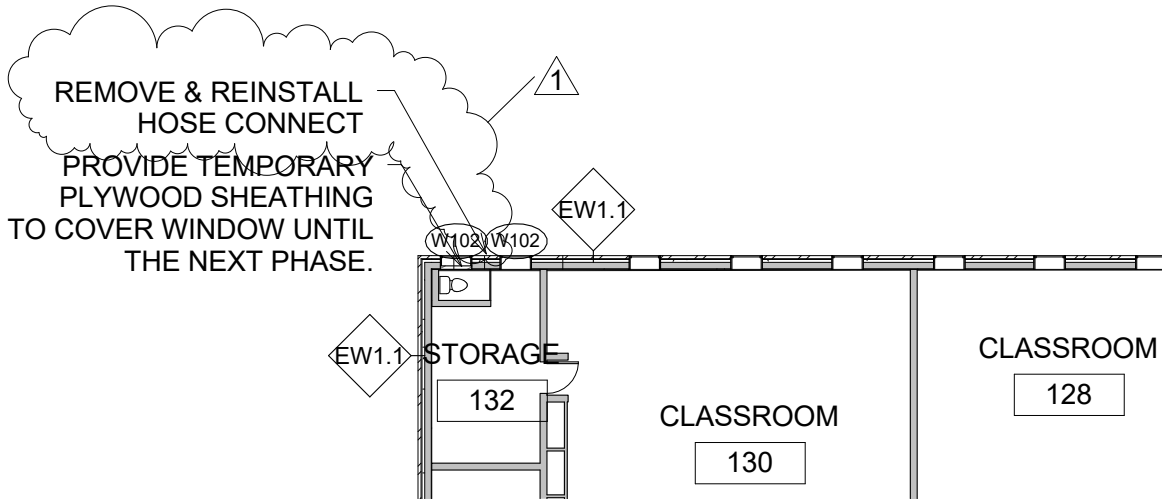
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 ASK-001



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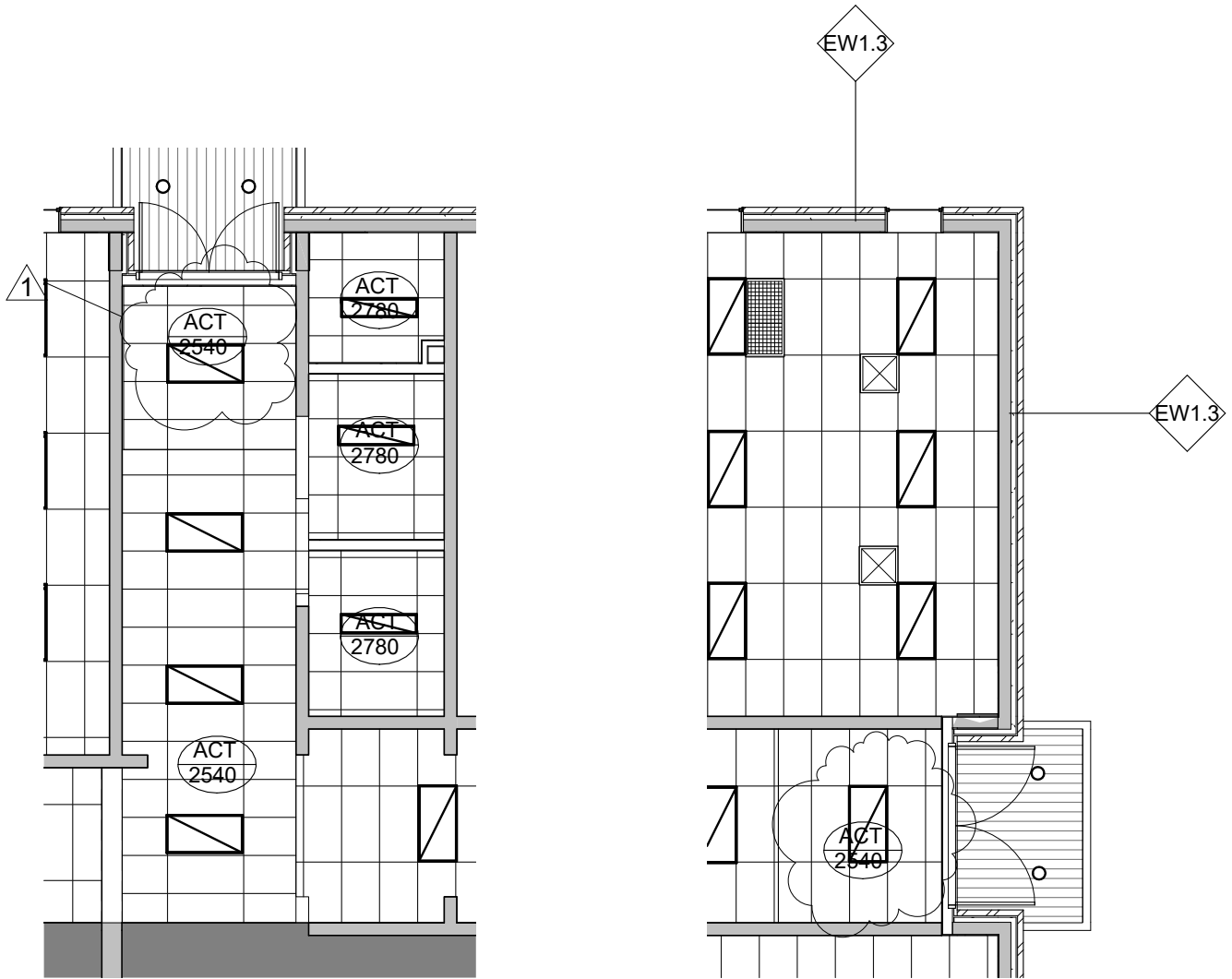


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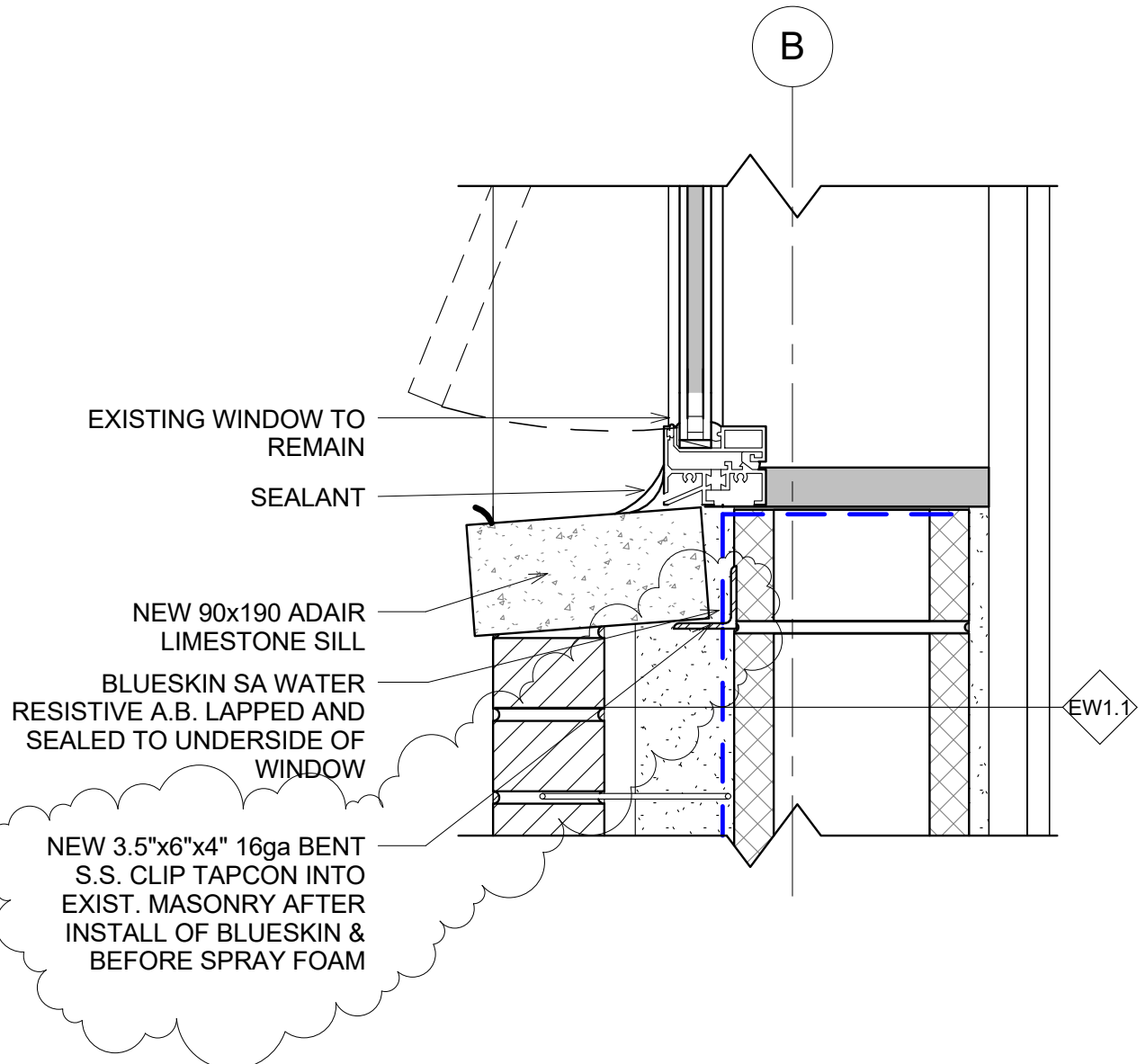


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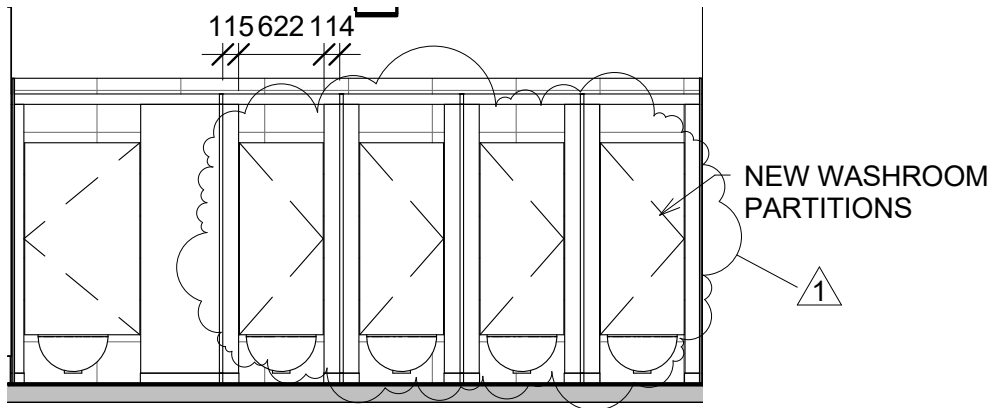
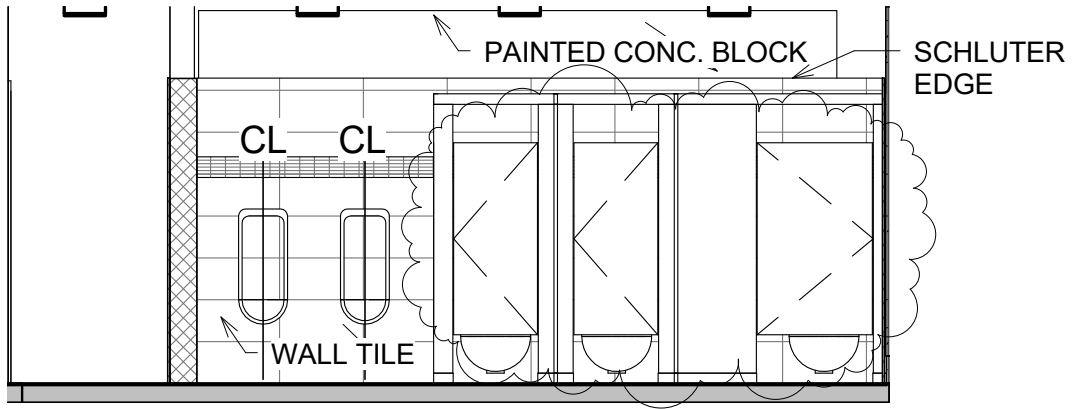
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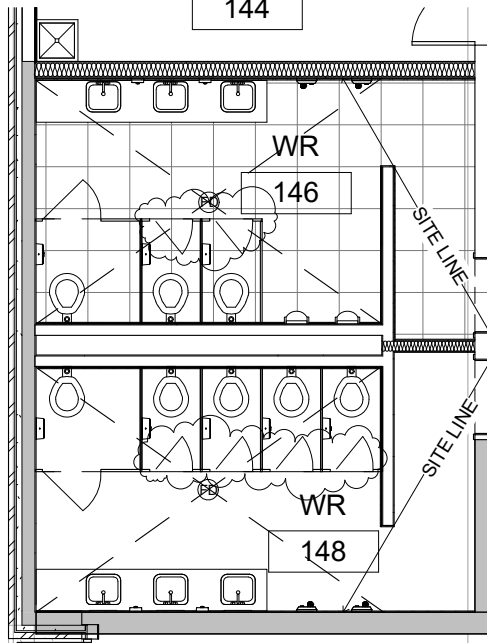
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