



## ADDENDUM

ADD 01

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<b>Project Name:</b>	Toronto Public Library: Pleasant View Library	<b>ADD No.</b>	01
<b>Project Address:</b>	575 Van Horne Ave North York, ON M2J 4S8	<b>No Pages</b>	: 70 (Including Cover)
<b>Project No.</b>	22-008	<b>Owner:</b>	: TPL
<b>Prepared By:</b>	Duane Comins		
<b>Date:</b>	2025.05.08		

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The following information supplements and / or supersedes the bid documents issued on the tender submission date noted above and all previously issued addenda. This addendum is to be read, interpreted, and coordinated with all other parts. The cost of all contained herein is to be included in the contract sum. The following revisions supersede the information contained in the original drawings and specifications issued for the above named project to the extent referenced and shall become part thereof. Acknowledge receipt of this Addendum by inserting its number and date on the Tender Form. Failure to do so may subject to disqualification.

### 1.0 General Answers to Questions

**Question: The following specification sections are found on the table of contents but not in the spec. Please provide the missing specifications.**

1.1

**32 12 16 Asphalt Paving  
32 13 13 Concrete Pads, Sidewalks, Curbs and Gutters**

Response: See attached for the following specifications:

03 33 11 Concrete, 12 93 00 Site Furnishings, 32 92 23 Sodding and Topsoil, 32 93 00 Planting, 32 12 16 Asphalt Paving

### 2.0 Architectural items

2.1 **Question: Please clarify what the door for Door D112 will be, it is drawn as a solid door, type E but the material is AL (aluminum). Is it supposed to be WD or AL?**

Response: Door to be exterior Hollow metal door and frame. Refer to updated Door schedule on Sheet A7.01

2.2 **Can we request clarification regarding the full extent of WP-1? In two locations (@ entry 102 & Staff Entry D104) plans call out for a finish but elevations show a different finish. Furthermore, the lit version of these acoustic pendant panels are part of the electrical scope, but there is no reference for these non lit (ACF-A, B, C) which are going to be mounted the same way. Please advise whether or not these non lit acoustic pendants are part of the electrical scope.**

Response: Reference A2.42 and A6.03 for extents of WP-1 / WP-2. Note: there is a custom TPL solid WP-2 panel within the WP-1 panels as noted in 11/A6.03

GC to coordinate subtrade who will be responsible for ACF-A/B/C. The acoustical panels are from the same manufacturer as the LC4 A/B/C but are not electrical items

2.3 **Question: Can you let us know if MIR and MIR-1 require pricing? If so, what are the models/sizes? They are on the drawings, but not listed on the schedule or specifications.**

Yes MIR and MIR-1 need to be priced, see sheet A6.12 for dimensions

2.4 **Question: Detail 12/A9.24: With Mel-1 at the upper portion and Mel-2 at the lower portion, what is the intent for the finished color at the microwave open area? Also the elevation identifies the upper doors as Plam 2 but the section indicates PLAM-3 upper doors with PLAM 2 lower doors. Please review and advise.**

Response: Microwave open area to be PLAM-2 finish

Please see revised drawings, all cabinets for staff lounge pantry (M110) and Programme Room Pantry (M120) to be PLAM-2 Wilsonart Shadow

2.5 **Question: Elevation 20/A9.08: With multiple colors at the tall microwave unit as noted in question 11 above, what is the intent at the finished end cap gables?**

Response: PLAM-2 Wilsonart Shadow

2.6 **Question: Elevation 20/A9.08: Please advise the intended color at the wall (upper) cabinet above the refrigerator and provide associated detail.**

Response: PLAM-2 Wilsonart Shadow

### General updates to drawings

2.7 **Childrens area 122 has been relocated to room 124. Room 122 is now stacks**



## **ADDENDUM**

## **ADD 01**

2.8 **Printer located in Entry 102 has been relocated next to the printer near M125**

**Millwork Updates**

2.9 **Sheet A9.01 + A9.20**

M124 - A/B has been updated to be a standard height millwork desk + reconfiguration of shelving to be 4 shelves and 1 display shelf. Wood Slats behind table have been removed from scope.

M102 has been modified to remove the check out counter + cabinets. Only seating is to be provided as per the update.

2.10 **Sheet A9.02**

M103 - A: "Pleasant View" lettering has been removed. Provide Blocking and Support for Owner provided Signage

2.11 **Sheet A9.05 + A9.22**

M126 Outlets have been relocated from horizontal surface to the vertical surface of Millwork

2.12 **Sheet A9.06**

Rooms 113 + 126 Millwork vertical screens have been removed from scope.

2.13 **Sheet A9.07 + A9.23**

Room 113 + 124 Wood vertical screens + M113-B +M113-A removed from Scope

2.14 **Sheet A9.09**

M127 (4 Units) display units have been removed from Scope

2.15 VIN - 2 Vinyl film Finish introduced on glazing S-124 - A and S124 - B. Design TBD

2.16 **Sheet A9.10**

Screen at Childrens computer as been removed.

2.17 **Sheet A1.03**

Proposed site alteration and Demolition plan scaled correctly.

2.18 **Sheet A1.04**

Outline of existing entry/exit into parking lot indicated to show extent of asphalt paving required for widening and reshaping of the curb.

### **3.0 Mechanical Items**

3.1 **Refer to 00 91 13 01 Addendum 01**

### **4.0 Electrical Items**

4.1 **Refer to 00 91 13 01 Addendum 01**

### **5.0 Civil Items**

N/A

### **6.0 Attached Items**

- A1.03 - Context and Site Alteration plans
- A1.04 - Site Plan
- A2.11 Plan - Level 01
- A2.41 - Finish Plan - Level 01
- A2.42 - Paint Plan
- A2.51 - Furniture plan - Level 01
- A6.03 - Interior Elevations
- A6.11 - Washroom plans + elevations
- A7.01 - Door Schedule
- A7.13 - Window/Screen Schedule
- A9.01 - Millwork
- A9.02 - Millwork - Circulation Desk
- A9.04 - Millwork - Stepped Seating
- A9.05 - Millwork - Stepped Seating



## ***ADDENDUM***

## ***ADD 01***

A9.06 - Millwork - Millwork - Reading Nook

A9.07 - Millwork - Reading Nook

A9.08 - Millwork - Kitchenette

A9.09 - Millwork - Display Shelves

A9.10 - Millwork - Screens

A9.20 - Millwork - Sections

A9.22 - Millwork - Sections

A9.23 - Millwork - Sections

Specification sections: 03 33 11 Concrete, 12 93 00 Site Furnishings, 32 92 23 Sodding and Topsoil, 32 93 00 Planting, 32 12 16 Asphalt Paving

01 91 13 01 Addendum 01

## **PART 1 GENERAL**

### **1.1 SUMMARY**

- .1 Section includes provision of all labour, materials, and incidental services necessary to supply and install:
  - .1 Asphalt paving for pedestrian and bicycle traffic (light duty loading) over subgrade.
  - .2 Asphalt paving for commercial vehicular traffic (heavy duty loading) over subgrade.
  - .3 Asphalt paving for fire truck route (heavy duty loading) over subgrade.

### **1.1 RELATED SECTIONS**

- .1 Concrete curbs and sidewalks/walkways: Refer to 32 12 13 Concrete Pads, Sidewalks, Curbs and Gutters

### **1.2 REFERENCES**

- .1 Acronyms:
  - .1 MRD: Maximum relative density.

### **1.3 SUBMITTALS**

- .1 Submit in accordance with Section 01 33 00 Submittal Procedures.
- .2 Product data: Submit asphalt mix design. Describe in detail on the mix design summary and locations of each mix in the asphalt paving assembly.
- .3 Field quality control: Submit field quality control reports.

### **1.4 QUALITY ASSURANCE**

- .1 Source quality control: Obtain aggregate and asphalt materials from a single source location with the resources to provide sufficient quantity to assure consistency throughout the work.

#### **.2 Qualifications:**

- .1 Installers: Utilize an installer having successfully completed ten (10) asphalt paving installations of similar in design, size, complexity, material, and extent indicated on this project.

## 1.5 FIELD CONDITIONS

- .1 Environmental requirements:
  - .1 Install asphalt paving layers over unfrozen and dry base aggregates.
  - .2 Install base or subbase aggregates only over unfrozen subgrade.
  - .3 Commence laying of asphalt binder courses only when base surfaces are at least 3°C, and the temperature is rising.
  - .4 Commence laying of asphalt surface courses only when binder course surfaces are completely dry, at least 7 °C and the temperature rising.
  - .5 Do not apply asphalt tack coat when air temperature is less than 10°C or when rain is forecast within two (2) hours of application.
  - .6 Suspend paving operations if temperature drops below specified minimums.
  - .7 When temperature of surface on which material is to be placed falls below 10°C, provide extra rollers as necessary to obtain required compaction before cooling.
  - .8 Do not place hot-mix asphalt when pools of standing water exist on surface to be paved, during rain, or when surface is damp.

## 1.6 WARRANTY

- .1 The warranty includes, but is not limited to, defects such as ponding, cracking in surfaces, and excess settlement areas to the acceptance of the Consultant.

## PART 2 PRODUCTS

### 2.1 SUBSTITUTION LIMITATIONS

- .1 Products specified establish design, performance and quality required and are not intended to restrict submission by other manufacturers.
- .2 Accepted substitutions for specified Products and listed manufacturers shall be considered in accordance with requirements of Division 01, Section 01 25 13 Substitution Procedures.
- .3 Submittals which do not include adequate data for the product evaluation shall not be considered.

### 2.2 BASE

- .1 Granular 'A' to OPSS 1010.

## **2.3 SUB BASE**

- .1 Granular 'B' Type II OPSS 1010.

## **2.4 ASPHALT MATERIALS**

- .1 Asphalt base courses: HL-8 asphalt, thickness after compaction as indicated on Drawings.
- .2 Asphalt finish course: HL-3 asphalt, thickness after compaction as indicated on Drawings.
- .3 Asphalt plants and mixing shall meet the requirements of OPSS 1150.
- .4 Asphalt shall meet specified requirements of OPSS 1150.
- .5 Fine and coarse aggregate to meet specified requirements of OPSS 1003.
- .6 Mineral filler to meet specified requirements of OPSS 1003.
- .7 Tack coat: Emulsified asphalt to meet specified requirements of CAN/CGSB-16.2, Type 3 Slow Setting (SS-1).
- .8 Expansion joint sealer: rubberized asphalt expansion joint sealer as prepared for use on foot traffic surfaces.

## **PART 3 EXECUTION**

### **3.1 EXAMINATION**

- .1 Examine substrates and the conditions affecting performance of the Work.
- .2 Report unsatisfactory conditions to Consultant and Contractor.
- .3 Proceed with installation only after unsatisfactory conditions have been corrected.

### **3.2 PREPARATION**

- .1 Verify that the subgrade compacted density, surface tolerances, and elevations conform to specified or indicated requirements.

### **3.3 SUB BASE INSTALLATION**

- .1 Place sub base in continuous horizontal layers not exceeding 200 mm loose depth over prepared subgrade.
- .2 Compact each sub base layer to minimum 100% SPMDD to ASTM D698.
- .3 Final compacted sub base thickness as indicated on Drawings.
- .4 Sub base surface tolerances shall be approximately 19 mm over 3,048 mm straight edge.

### **3.4 BASE INSTALLATION**

- .1 Verify that subbase aggregate materials, thickness, compacted density, surface tolerances and elevations conform to specified or indicated requirements.
- .2 Place base in continuous horizontal layers not exceeding 200 mm loose depth.
- .3 Compact each base layer to 100% SPMDD to ASTM D698.
- .4 Final compacted base thickness as indicated on Drawings.
- .5 Base surface tolerances shall be approximately 9.5 mm over 3,048 mm straight edge.

### **3.5 TACK COAT/PRIME COAT**

- .1 Apply asphalt tack coat to clean and dry surfaces of curbs, gutters, manholes and like structures in a uniform coat at no more than 0.7 L/m<sup>2</sup>.
- .2 Allow tack coat/prime coat to cure undisturbed before applying hot-mix asphalt paving. Avoid smearing or staining adjoining surfaces, appurtenances, and surroundings. Remove spillages and clean affected surfaces.

### **3.6 ASPHALT PLACING**

- .1 Machine place asphalt on prepared surface, spread uniformly, and strike off. Place asphalt mix by hand in areas inaccessible to equipment in a manner that prevents segregation of mix. Place each course to required grade, cross section, and thickness when compacted.
- .2 Place paving in consecutive strips not less than 3,048 mm wide unless infill edge strips of a lesser width are required.
  - .1 After first strip has been placed and rolled, place succeeding strips and extend rolling to overlap previous strips. Overlap mix placement about 25 mm to 38 mm from strip to strip to ensure proper compaction of mix along longitudinal joints.
  - .2 Complete a section of asphalt base course before placing asphalt surface course.
  - .3 Promptly correct surface irregularities in paving course behind paver. Use suitable hand tools to remove excess material forming high spots. Fill depressions with hot-mix asphalt to prevent segregation of mix; use suitable hand tools to smooth surface.
- .3 Minimum 135°C mix temperature required when spreading.
- .4 Maximum 160°C mix temperature permitted at any time.
- .5 Compact each course with roller as soon as it can support roller weight without undue cracking or displacement.
- .6 Compact asphaltic concrete paving courses to minimum 92% maximum relative density in accordance with OPSS 1150 and OPSS 310.

- .7 Keep roller speed slow enough to avoid mix displacement and do not stop roller on fresh pavement.
- .8 Moisten roller wheels with water to prevent pick up of material.

### 3.7 JOINTS

- .1 Construct joints to ensure a continuous bond between adjoining paving sections. Construct joints free of depressions, with same texture and smoothness as other sections of hot-mix asphalt course.
- .2 Offset longitudinal joints, in successive courses, a minimum of 150 mm
- .3 Offset transverse joints, in successive courses, a minimum of 610 mm.
- .4 Apply tack coat to edge and surface of all milled asphalt prior to placement of new asphalt in accordance with OPSS 308.
- .5 Apply tack coat to surfaces of existing structures such as manholes, curbs or gutters prior to placing adjacent pavement.
- .6 For cold joints, cut back to full depth vertical face and tack face with hot asphalt.

### 3.8 COMPACTION

- .1 Begin compaction as soon as placed hot-mix paving will bear roller weight without excessive displacement. Compact hot-mix paving with hot hand tampers or with vibratory-plate compactors in areas inaccessible to rollers.
- .2 Complete compaction before mix temperature cools to 85°C.
- .3 Breakdown rolling: Complete breakdown or initial rolling immediately after rolling joints and outside edge. Examine surface immediately after breakdown rolling for indicated crown, grade, and smoothness. Correct laydown and rolling operations to comply with requirements.
- .4 Intermediate rolling: Begin intermediate rolling immediately after breakdown rolling while hot-mix asphalt is still hot enough to achieve specified density. Continue rolling until hot-mix asphalt course has been uniformly compacted.
- .5 Finish rolling: Finish roll paved surfaces to remove roller marks while hot-mix asphalt is still warm.
- .6 Edge shaping: While surface is being compacted and finished, trim edges of pavement to proper alignment. Bevel edges while asphalt is still hot; compact thoroughly.

### 3.9 INSTALLATION TOLERANCES

- .1 Finished surfaces to be within 5 mm (0.19") of design elevation and with no irregularities greater than 5 mm (0.19") in 4.5 m (14'-9").
- .2 Install asphalt paving flush with adjacent seamless rubber playground protective

surfacing and wood decking finished surfaces.

### **3.10 FIELD QUALITY CONTROL**

- .1 Contractor shall perform the following inspections:
  - .1 Inspections:
    - .1 Verify final elevations for conformance to the drawings after sweeping the surface clean.
    - .2 Verify installation tolerances.
  - .2 Owner shall engage an independent inspection and testing company to perform the following tests and inspections:
    - .1 Inspections: Inspect base and subbase aggregate to verify installation thickness.
    - .2 Testing:
      - .1 Test compaction of base and subbase aggregate to verify installation thickness and compaction.
      - .2 Test compaction of asphalt courses to verify installation thickness and compaction.
      - .3 Frequency shall be as determined by independent inspection and testing company.
    - .3 Prepare test and inspection reports.

### **3.11 ADJUSTING**

- .1 Remove paved areas that are defective or contaminated with foreign materials and replace with fresh, hot-mix asphalt.
- .2 Replace defective asphalt pavements with patches cut into pavement, in rectangular areas, and with joints made as specified.
- .3 Repair areas showing checking, rippling or segregation as directed by Consultant.

### **3.12 CLEANING**

- .1 Sweep clean completed asphalt paving areas of excess sand, dirt, debris, and remove installation equipment.

### **3.13 PROTECT**

- .1 After final rolling, do not permit vehicular traffic on pavement until it has cooled and hardened.
- .2 Do not permit stationary loads on pavement until twenty-four (24) hours after placement.

- .3 Erect barricades to protect paving from traffic until mixture has cooled enough not to become marked.

**END OF SECTION**

## **SPECIFICATIONS**

<b>Section 03 33 11</b>	<b>Concrete</b>
<b>Section 12 93 00</b>	<b>Site Furnishings</b>
<b>Section 32 92 23</b>	<b>Sodding and Topsoil</b>
<b>Section 32 93 00</b>	<b>Planting</b>

**PART I – GENERAL**

**1.1. Description**

- .1 The work covered by this section includes the furnishing of all labour, materials, equipment and incidentals for the inspection and construction of concrete paving and curbing as shown on the Construction Drawings and as described by the Contract Specifications.
- .2 Comply with the requirements of the Tender Document and General Conditions.

**1.3. Quality Assurance**

- .1 The contractor must have a minimum of 5 years experience in concrete work.
- .2 All materials must conform to CSA A23.1-94. A copy must be kept on site at all times during construction.
- .3 Furnish the Landscape Architect with a certificate prepared by the Ready-Mix concrete suppliers stating that all requirements regarding strength, slump, air entrainment, mix, materials and ratio have been met and maintained.
- .4 Prior to pouring concrete, obtain the approval of the Landscape Architect of all form work, placement of reinforcing steel, consolidation of subgrade and placement and consolidated of granular base.
- .5 When required by the Landscape Architect, have all concrete tested for compressive strength, slump and air content, in accordance with CSA A23.2-94. Submit test reports in duplicate and pay all costs incurred.
- .6 Ensure work complies with the Ontario Building Code and all pertinent local by-laws and regulations. These shall govern in case of conflict with the specification. Obtain and pay for all necessary permits before starting work.

**1.4. Product Delivery, Storage and Handling**

- .1 Store all materials in accordance with CSA A23.1-94 latest edition.
- .2 Store reinforcing steel on racks or skids. Protect from contamination by dirt or other materials.
- .3 Store forms off the ground and sufficiently supported to prevent warping or distortion. Protect from contaminations by oil, grease, water, earth, etc.
- .4 All concrete is to be ready mixed at plant and transported to the site by truck in accordance with CSA A23.1-94. Hand mixed concrete is not allowed unless approved in writing by the Landscape Architect prior to the start of work.
- .5 Convey concrete from the mixer to the place of final deposit as rapidly as possible, with as little rehandling as is practical. Avoid segregation and/or loss of material.
- .6 Place concrete in final position and at such a rate that it remains plastic at all times and flows readily between reinforcement, into all corners and crevices and around all embedded fixtures. Pour in a continuous operation between expansion joints.

## SECTION 03 33 11 – CONCRETE

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- .7 Thoroughly clean all equipment, used for mixing or transporting of concrete, of all hardened concrete and foreign material prior to placing concrete.
- .8 Do not allow concrete to be contaminated by foreign materials. Do not use retempered concrete unless approved in writing, by the Landscape Architect.
- .9 Obtain the approval of the Landscape Architect of the type, number and method of use of mechanical vibrators. Do not operate a vibrator for longer than 10 seconds in any one location.
- .10 Maintain constant control to ensure that finished concrete is dense, uniform, free of air holes or honeycombs and that no segregation of aggregates and cement paste occurs.

### **1.5. Job Conditions**

- .1 Protect all concrete surfaces from damage or harmful effects of weather, water, mechanical shock or trespassers until concrete is properly cured.
- .2 If temperature is expected to drop below 5°C, place and protect concrete in accordance with AC1.605.

### **1.5. Inspection**

- .1 Obtain the approval of the Landscape Architect of the layout, compacted sub-grade, compacted granular base, formwork and reinforcing before proceeding with subsequent work.

## **PART II – PRODUCTS**

### **2.1. Materials**

- .1 Granular A and Granular B: granular material conforming in all respects to OPSS 1010, latest edition.
- .2 Portland cement: standard grey portland cement, conforming to CAN/CSA-A5/A8/A362-93 type 10 normal.
- .3 Aggregates: nominal size as specified and conforming to CSA A23.1-94.
- .4 Water: clear and free of deleterious substances or efflorescing salts.
- .5 Air entraining admixtures: conforming to ASTM C 260-94 and of approved manufacturer.
- .6 Reinforcing steel: conforming to CSA G-30.12-M77 for bars, CSA G30.5-M83 for welded steel wire mesh and OPSS 1440.
- .7 Expansion joint filler: premoulded bituminous impregnated fibre board conforming to ASTM D1751-73 of thickness and depth specified.
- .8 Curing Compounds: clear liquid chlorinated rubber to ASTM C309 and OPSS 1315.
- .9 Formwork: conforming to CSA A23.1-94 and AC1- 347 and of sound wood, in good condition and equal or better than No. 2 grade construction spruce and/or 19mm Douglas

## SECTION 03 33 11 – CONCRETE

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Fir plywood, with the surface treated to produce a smooth concrete finish. Plywood to be CSA 0/2/.

### **2.2. Mixes**

- .1 Mix concrete materials in accordance with CSA CAN3-A23.1M-77, in the proper proportions and ratios to provide a finished product as specified. Concrete mix shall meet the following requirements: Compressive strength 25 MPa at 28 days; 100mm slump at point of deposit; air entrainment 6% (+ or - 1%). Unless noted otherwise on the drawings or details, all concrete is to be 25 MPa strength.
- .2 With the exception of air entraining agents, other mixtures may only be used with the written approval of the Landscape Architect. The use of agents to lower the freezing point of the mix will not be permitted.

## **PART III – EXECUTION**

### **3.1. Preparation**

- .1 Excavate to the minimum specified depths, after compaction, as shown on the drawings. Maintain sub-grade parallel to finished grade in all cases.
- .2 Fine grade subgrade eliminating uneven areas and filling low spots. Remove all debris. Excavate all soft and unstable areas in subgrade and backfill with Granular “B”.
- .3 Compact subgrade uniformly to minimum ninety-eight percent (98%) Standard Proctor Density. Arrange for testing of fill materials and compaction. When required and as directed by the Landscape Architect, the Contractor shall, at his own expense, sprinkle water to assist in compaction.
- .4 The Granular “B” base shall be applied in maximum 74mm (3 inches) layers, graded, rolled and compacted in accordance with OPSS Division 3.
- .5 In the event of delay between completion of subgrade and commencement of application of stone base, the Contractor shall re-grade and re-compact subgrade at his own expense if so ordered.
- .6 Keep materials clean and free of deleterious materials at all times.
- .7 Maintain final grade of granular base course parallel to finished grade.
- .8 Submit written test reports.
- .9 Contractor to ensure that all concrete columns are vibrated to eliminated all voids.

**3.2. Granular Base**

- .1 Spread the specified granular materials in horizontal layers not exceeding 150mm loose depth and compact to 98% Standard Proctor Dry Density. In areas where compaction by roller is not possible, compact with approved mechanical or hand tamping devices to the specified density.
- .2 Build up thickness of each material to the minimum compacted thickness as specified on the drawings.
- .3 Ensure that granular does not become contaminated by deleterious material.
- .4 Correct all irregularities or depressions resulting from rolling and compact until the granular surface is smooth, uniform and true to line and grade.
- .5 When required by the Landscape Architect, have the compaction of the granular materials tested by an approved, independent testing firm. Submit 2 copies of the test results to the Landscape Architect and obtain his approval prior to pouring concrete. Pay testing costs incurred.

**3.3. Form Work**

- .1 Erect forms in such a manner as to facilitate dismantling and removal without damaging concrete.
- .2 Erect forms true to line and level in accordance with the drawings, and sufficiently braced to maintain their form and alignment when concrete is placed.
- .3 Prior to each pouring operation, coat affected form surfaces with an approved form separating material.
- .4 Provide for all openings, sleeves, hangers, anchors and ties to be cast into the concrete.
- .5 Do not use treated plywood for exposed surfaces more than 5 times. Do not use plywood if surface is damaged.
- .6 Obtain the approval of the Landscape Architect of all form work before proceeding

**3.4. Reinforcement**

- .1 Before placing reinforcement, clean all loose scale, dirt and any other coating that would destroy or reduce bonding to concrete.
- .2 Place all reinforcement accurately in accordance with the drawings and/or approved shop drawings. Use approved chairs, spacers, hangers or ties to secure the reinforcing in position.
- .3 Unless directed otherwise, provide the following minimum concrete cover over reinforcing:
  - a) 75mm where concrete is deposited against soil.
  - b) 50mm for bars larger than 10m and 40mm for bars smaller than 10m where concrete is exposed to weather.
- .4 Obtain the approval of the Landscape Architect of all reinforcing before proceeding.

**3.5. Joints**

- .1 Locate expansion joints as shown on the drawings or at max. intervals of 6.0m, between new concrete and all new or existing rigid structures, and either side of all driveway sections. Joints must be cast in place.
- .2 Execute construction joints in accordance with AC1-301 and as detailed on the drawings. Thoroughly clean the joint surface of all laitance and wet thoroughly and slush with a coat of cement grout immediately before placing new concrete.
- .3 Except for expansion joints, continue reinforcing uninterrupted through joints, unless shown otherwise on the drawings or directed by the Landscape Architect.
- .4 Stop reinforcing on each side of expansion joints. Where dowels are indicated, cast one half into one side of the joints. The exposed half shall be machined smooth and heavily greased before placing adjoining sections.
- .5 Locate control joints as shown on the drawings or at a max. spacing of 2.0m. Ensure joints are to a minimum depth of 1/4 the thickness of the concrete. Make joints by one of the following methods:
  - a) Sawed joints
  - b) Hand formed and hand tooled
  - c) Inset joints placed in plastic concrete
- .6 No offsets will be allowed between adjacent sections of joint fillers and no plugs of concrete will be permitted anywhere within an expansion joint.
- .7 Apply joint sealant in accordance with the manufacturer's directions. Ensure joints are clean and free of any foreign substances before sealing. Clean any sealant spilled on concrete surface immediately.

**3.6. Placing of Concrete**

- .1 Place concrete by approved means and using approved equipment.
- .2 Do not place concrete until formwork and grades have been inspected by the Owner or Landscape Architect.
- .3 Transport concrete from mixer to point of deposit, and place in final position as quickly as possible to prevent separation and loss of materials.
- .4 While placing concrete, compact thoroughly and uniformly by approved means to ensure a dense homogeneous structure free of air pockets, and honeycombs and closely bonded with reinforcement.

**3.7. Finishing**

- .1 Treat and finish all surfaces as directed or specified and in accordance with CSA CAN3-A23-1-M77.

## SECTION 03 33 11 – CONCRETE

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- .2 Strike off and float all exposed paving surfaces as soon as possible after consolidation and in accordance with recommendations of the Portland Cement Association. Execute final finishing as specified on the drawings or as directed by the Landscape Architect.
- .3 Ensure finished surface is true to line and level as shown on the drawings. Walks are to be sloped as per grading plans.
- .4 All irregularities greater than 6mm under a 3000mm straight edge, operated parallel to the centre line, must be repaired.
- .5 Obtain the approval of the Landscape Architect of finished surfaces before starting curing operations.
- .6 Immediately after stripping formwork, obtain the approval of the Landscape Architect before commencing patching, finishing or curing operations.
- .7 The extent, method and type of mix for patching shall have the approval of the Landscape Architect before commencing work. Ensure patching mix contains an approved bonding and waterproofing agent and that it is installed in accordance with the manufacturer's specifications.

### **3.8. Curing**

- .1 Keep concrete moist for at least 3 days after placement, in accordance with CSA CAN-A231-M77.
- .2 Method of curing shall be as specified or by one of the following approved methods if not specified:
  - a) Moist curing
  - b) Waterproofing paper or white polyethylene sheeting
  - c) White liquid membrane compound
  - d) Combination of above methods
- .3 Moist curing: use burlap or approved equal. Ensure it is thoroughly wet when applied and kept continuously wet and in full contact with the surface during the curing period.
- .4 Waterproof paper or white polyethylene sheeting: ensure sheet is large enough to cover entire concrete surface. Secure to prevent displacement during curing period. Immediately repair any tears or holes.
- .5 White liquid membrane compound: apply at the rate of 1 litre per 5 square meters after final finishing and all free water has disappeared. Keep membrane compound agitated to prevent settling of compound. Apply membrane compound to edges immediately after formwork is removed. Ensure a continuous and unbroken membrane cover is applied.

### **3.9. Clean-up**

- .1 Clean and remove all concrete spills from the site and make good any disturbance.

**End of Section**

## SECTION 12 93 00 – SITE FURNISHINGS

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### **PART I – GENERAL**

#### **1.1. Description**

- .1 This section specifies the supply and installation of all site furnishings including benches, waste receptacles, and all other site furnishings.
- .2 Comply with all requirements for the General Requirements – Section 01 00 00.

#### **1.2. Shop Drawings**

- .1 Submit detailed shop drawings. Indicate sizes, materials and fastening methods.

#### **1.3. Quality Assurance**

- .1 All installation of site furnishings will be carried out by experienced personnel under the direction of a skilled foreman and in strict accordance with all drawings, and manufacturer's specification.

#### **1.3. Submittals**

- .1 The contractor will make available a colour and finish sample of all site furnishings for approval by the Owner or Landscape Architect.

#### **1.4. Product Delivery, Storage & Handling**

- .1 Protect all materials from harmful exposure during transportation to the site.
- .2 Upon delivery, store all materials off the ground and protect from adverse conditions to prevent deterioration, damage, or impairment of structural or other essential properties.
- .3 All damaged or deteriorated materials will be rejected and must be removed from the site immediately.

#### **1.5. Site Examination**

- .1 The contractor shall report to the Landscape Architect, in writing, of any conditions or defects encountered on the site during or before construction, upon which the work of this section depends and which may adversely affect its performance.
- .2 Do not commence work until such conditions or defects have been investigated and corrected.
- .3 Where required, layout all furniture locations on the site and give timely notice to the Landscape Architect to allow for inspections before commencing work.

### **PART II – PRODUCTS**

#### **2.1. Materials**

- .1 All furnishings are to be as specified on drawings. Confirm colours with the Landscape Architect prior to ordering.

### **PART III – EXECUTION**

## SECTION 12 93 00 – SITE FURNISHINGS

---

### **3.1. Installation**

- .1 All site furnishings to be installed as per the manufacturer's specifications and details.
- .2 Layout as per drawings and subject to the approval of the Owner or Landscape Architect.

**End of Section**

## SECTION 32 14 13 – UNIT PAVING

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### **PART I – GENERAL**

#### **1.1. Description**

- .1 The work covered by this section includes the furnishing of all labour, materials, equipment and incidentals for the design, inspection and construction of unit paving as shown on the Construction Drawings and as described by the Contract Specifications.

#### **1.2. Related Work**

- .1 Cut, fill and subgrade preparation:
- .2 Subsurface structure
- .3 Precast concrete

#### **1.3. Samples**

- .1 Submit full size sample of each type of paving unit required for all surfaces to Landscape Architect prior to commencement of work.

#### **1.4. Shop Drawings**

- .1 Submit shop drawings in accordance with specification requirements as shown on details and plans.
- .2 Indicate layout, pattern and relationship of paving joints to fixtures and project formed details.
- .3 Include manufacturer's test data.

### **PART II – PRODUCTS**

#### **2.1. Materials**

- .1 Precast Unit Pavers to be uniform in material, colour, size and from one manufacturer. Colour, size, model and pattern to be as per the Unit Price Contract or detail drawings.

### **PART III – EXECUTION**

#### **3.1. Subgrade**

- .1 Ensure that subgrade preparation conforms to levels required to allow for installation of granular base.
- .2 Where paving over underground structures, refer to architectural specifications for roofing structure.

## SECTION 32 92 23 - SODDING AND TOPSOIL

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### **0PART I - GENERAL**

#### **1.1. Description**

- .1 The work covered by this section includes the furnishing of all labour, materials, equipment and incidentals for inspection and placement of sod over topsoil as shown on the Construction Drawings and as described by the Contract Specifications.
- .2 Comply with all requirements of the General Requirements – Section 01 00 00.

#### **1.3. Quality Assurance**

- .1 The contractor must have 5 years experience in sodding work.

#### **1.4. Product, Delivery, Storage and Handling**

- .1 Deliver sod to site within 24 hours of being harvested and lay sod within 48 hours thereafter, depending on suitable weather conditions and in accordance with good horticultural practice.
- .2 Small irregular or broken pieces of sod will not be accepted.
- .3 Prevent sod from drying out on site.

#### **1.5. Sample**

- .1 Complete the installation of one sample panel of sod of a minimum 25 m<sup>2</sup> (one side minimum 2.0m) and have inspected and approved by the Contract Administrator prior to proceeding with the balance of sodding operations. All other work shall conform to this approved sample.

#### **1.6. Soil Testing**

- .1 If required by the Contract Administrator, the soil shall be tested for N, P, K and minor element values, soluble salt contents, organic matter content, and pH value.
- .2 If required by the Contract Administrator, in-situ soil shall be tested for compaction levels with a soil compaction meter (penetrometer) in pounds-per-square-inch (psi).
- .3 Arrange for, and assume all costs for such testing. Testing shall be carried out by a reputable firm, approved by the Contract Administrator.
- .4 The contractor shall submit the soil analysis report to the Contract Administrator prior to the commencement of the works. When the source of such topsoil is exhausted, topsoil from a new source shall not be used until it is tested, and approved by the Contract Administrator.

#### **1.7. Inspection**

- .1 The Contractor shall verify that the final site grades are in accordance with the grading plan. Obtain the approval of the Contract Administrator of the finished topsoil surface before proceeding with sodding.
- .2 The Contractor shall give timely notice, in writing, that all work has been completed and maintenance period is to begin.

## SECTION 32 92 23 - SODDING AND TOPSOIL

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### **1.8. Acceptance**

- .1 Maintain sod in good condition until acceptance.
- .2 At the time of acceptance, the grass must not be more than 50mm high. Minimum acceptable cut height is 45mm. All sod must have a healthy and even stand of grass, free of thin, poor or burned-out patches.
- .3 Acceptance will be given when the sod is properly rooted, free of bare and dead spots and reasonably free of weeds in the opinion of the Contract Administrator.
- .4 Acceptance will not be given if the topsoil and/or sod layer are excessively compacted (compaction exceeding 200 PSI).
- .5 Replace any deteriorated sod with new sod at the direction of the Contract Administrator.
- .6 The Contractor is responsible for a minimum of one cut of grass or as many cuts as required until acceptance.

### **1.9. Guarantee**

- .1 During the guarantee period, the Contractor shall make monthly inspections and replace all sod which is dead, or is not in a healthy vigorous growing condition.
- .3 Soil testing for N, P, K and minor element values, soluble salt contents, organic matter content, pH value and compaction shall be conducted if issues with sod growth and/or health are widespread or persistent. Arrange for, and assume all costs for such testing. Testing shall be carried out by a reputable firm, approved by the Contract Administrator. Perform remedial actions as recommended by the soil testing results and approved by the Contract Administrator.

## **PART II - PRODUCTS**

### **2.1. Materials**

- .1 Grass sod: Certified No.1 grade cultivated turf grass sod with a composition of 50% Kentucky Blue Grass and 50% Blue Cultivar either "Fylking" or "Baron" or as specified on the drawings, grown and sold in accordance with NSGA classifications. At the time of sale it must have a strong, fibrous root system and be free of stones and burned or bare spots. Damaged and broken pieces shall not be laid and shall be removed from the site immediately.
- .2 Sod pegs: 25mm x 25mm x 230mm (minimum length). Ensure pegs are long enough to securely anchor sod.
- .3 Topsoil: a fertile, friable, natural loam; containing not less than 4% organic matter for clay loams and not less than 2% organic matter for sandy loams to a maximum of 15%. Topsoil must be capable of sustaining vigorous plant growth, free of subsoil contamination, roots and stones over 25mm diameter, reasonably free of weeds (as determined by the Contract Administrator), and having a pH ranging from 6.0 to 7.5.

## **PART III - EXECUTION**

### **3.1. Preparation**

## SECTION 32 92 23 - SODDING AND TOPSOIL

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- .1 Rototill all areas that are to receive new sod. Cultivate to a minimum depth of 100mm. Remove all rocks, roots and grass or weed clumps from the surface.
- .2 Compact surface to 85% Standard Proctor Dry Density.
- .3 Scarify to a depth of 25mm before placing additional topsoil or sod.

### **3.2. Spreading of Topsoil**

- .1 Spread dry topsoil during dry weather over approved, dry, unfrozen subgrade where sod is to be installed.
- .2 Keep topsoil 25mm below finished grade for sodded areas.
- .3 Fine grade topsoil eliminating rough and low areas and to ensure positive drainage.
- .4 Roll topsoil with a 50 kg roller to compact and retain surface. Finished depth of prepared, compacted topsoil to be minimum 150mm. Do not overcompact soil.
- .4 Provide a finished topsoil surface that is smooth and firm against footprints with a fine, loose texture before sod is placed. Topsoil level shall not be compacted beyond 200 PSI.

### **3.3. Installation**

- .1 Lay sod with tight butt joints. Do not leave any open joints or overlap adjacent pieces of sod. Alternate joints on each row of sod.
- .2 Ensure finished sod surface is flush with adjoining grass areas, pavement or top surface of curbs.
- .3 On slopes steeper than 4:1, lay sod perpendicular to the slope and peg each row at intervals of not more than 600mm on each side of the sod strip. Drive pegs flush with surface of sod.
- .4 Immediately after installation, water the sod with sufficient quantity of water to penetrate the sod and the top 50mm of the underlying topsoil.
- .5 Apply 8-32-16 slow release commercial fertilizer at the rate of 22 kg per 1000 square metres.
- .6 When sod has dried sufficiently to prevent damage, roll all sodded areas to ensure a good bond between sod and topsoil. Imperfections in the surface should be corrected prior to the laying of the sod and not by rolling with a heavy roller.
- .7 Protect all newly sodded areas with warning signs or barricades.

### **3.4. Protection after Completion**

- .1 Assume full responsibility for protection of all sodded areas from all sources until performance acceptance.
- .2 Erect protective barriers and post signs where necessary and maintain same until performance acceptance.

**SECTION 32 92 23 - SODDING AND TOPSOIL**

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- .3 Remedy all damages, wash-outs and eroded areas resulting from weather, improper protection, excessive compaction, or other causes.

**3.5. Clean Up**

- .1 The Contractor must leave the site in a neat and orderly condition upon completion of work on a daily basis, all to the satisfaction of the Contract Administrator.

**End of Section**

## SECTION 32 93 00 – PLANTING

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### **PART I – GENERAL**

#### **1.1. Description**

- .1 The work covered by this section includes the furnishing of all labour, materials, equipment and incidentals for the inspection, maintenance and planting of trees, shrubs, ground covers and perennials as shown on the Construction Drawings and as described by the Contract Specifications.
- .2 Comply with all requirements of the General Requirements – Section 01 00 00.

#### **1.2. Quality Assurance**

- .1 Planting work is to be carried out by experienced personnel under the direction of skilled foreman and in strict accordance with the Specifications and best horticultural practice.

#### **1.3. Product Delivery, Storage and Handling**

- .1 Supply manufactured items such as super phosphate, fertilizer tablets, mulch, etc., in standard containers, clearly indicating contents, weight, component analysis, and the name of the manufacturer.
- .2 Store manufactured materials, subject to deterioration, in a weatherproof place on site and in such a manner that their effectiveness is not impaired.
- .3 Supply plant materials as specified on the plant list. Confirm quantities as specified on the drawings, plant list and bid form. Report any discrepancies.
- .4 Dig materials specified “B.R.” (bare root) on the plant list, while in a dormant state and with the majority of the root system intact. Immediately after digging, wrap the roots in wet burlap and keep burlap wet during transport and storage.
- .5 Provide all material, specified “B. & B.” (balled and burlapped) on the plant list, with a solid, earth root ball, wrapped in burlap.
- .6 Provide all material, specified “WB” (wire basket) on the plant list, with a solid, earth root ball, bound by a wire basket.
- .7 Do NOT plant material with broken or abraded trunks or branches, or with broken or cracked root balls, or plants which are strongly desiccated, as they will be subject to rejection upon arrival on the project site.
- .8 Provide root balls of the following minimum sizes to meet the corresponding tree size. Ensure the root ball is large enough to accommodate at least 75% of the fibrous root system.

<b>Deciduous Trees Caliper</b>	<b>Minimum Root Ball Diameter</b>
50 mm	75 cm
60 mm	80 cm
70 mm	85 cm
80 mm	90 cm
90 mm	100 cm
1.00 m	60 cm
1.50 m	60 cm

## SECTION 32 93 00 – PLANTING

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<b>Coniferous Tree Height</b>	<b>Minimum Root Ball Diameter</b>
1.75 m	65 cm
2.00 m	70 cm
2.25 m	75 cm
2.50 m	80 cm

- .9 Cut all roots cleanly when digging plants. Split roots are not acceptable. Cut roots even with the edges of the root ball.
- .10 Protect all plant material from damage and breakage. Protect all parts of the plant material from drying out from the time of digging until they are installed.
- .11 Do not transport plant material in an open truck unless it is adequately protected from sun and wind.
- .12 Carefully tie in all branches before transporting.
- .13 Pad all points of contact between plant material and equipment.
- .14 Heel in any plant material that cannot be planted during the current day's operations.
- .15 Keep all roots and root balls moist prior to planting.
- .16 Do not remove labels attached to plants, until after final inspection.

### **1.4. Soil Testing**

- .1 If required by the Landscape Architect, the soil shall be tested for N, P, K and minor element values, soluble contents, organic matter and pH value.
- .2 Arrange for, and assume all costs for such testing. Testing shall be carried out by a reputable firm, approved by the Landscape Architect.
- .3 The Contractor shall submit the soil analysis report to the Consultant prior to the commencement of work. When the source of such topsoil is exhausted, topsoil from a new source shall not be used until it is tested, and approved by the Landscape Architect.

### **1.5. Job Conditions**

- .1 Proceed with planting operations during suitable weather conditions.

### **1.6. Substitutions**

- .1 Supply and install plant material as specified on the plant list. Substitutions with other plant material will only be allowed with the written approval of the Landscape Architect.
- .2 Give timely notice, in writing, to the Landscape Architect when applying for substitutions.

### **1.7. Inspections**

- .1 Make plant material available for inspection at source of supply and/or upon arrival on the site by the Landscape Architect. Notify Landscape Architect of delivery date and notify prior to shipment.

## SECTION 32 93 00 – PLANTING

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- .2 Approval of plant material at source will not impair the right of the Owner or Landscape Architect to inspect plants upon arrival on the site or during the course of construction and to reject plants which have been damaged, or which, in any way, do not conform to the specifications.
  - .3 If partial acceptance is desired, give timely notice to the Landscape Architect in writing.
  - .4 Partial acceptance will be given when planting work has been delayed due to circumstances beyond the control of the contractor or where planting would be in conflict with good horticultural practices and would jeopardize the performance.
  - .5 Planting of materials, prior to inspection by the Landscape Architect will be the Contractor's responsibility.
  - .6 Remove all rejected materials from the site immediately.
  - .7 Furnish all inspection certificates as may be required by federal, provincial and other applicable regulations.
  - .8 Labels shall indicate variety, grade and size of each plant specimen or bundle. Do not remove any labels from plants until final or partial approval by the Landscape Architect, or as directed.
  - .9 Final inspection of all plant material will be made at the end of the specified guarantee period. All plants must be in a healthy growing condition at the time of this inspection.
  - .10 The contractor is to provide the Landscape Architect with a full scale marked plan showing any substitutions or changes in colour.

### **1.8. Maintenance**

- .1 Prepare and present to the Landscape Architect, two copies of a maintenance schedule prior to the beginning of the guarantee period.
- .2 All plant materials shall be maintained by the Contractor immediately after any planting has been installed and shall continue until the date of final acceptance.
- .3 Maintenance shall include all measures necessary to establish and maintain all plants in a vigorous and healthy growing condition, including but not limited to:
  - a. Weeding of planting beds and tree pits. Use herbicides in accordance with the manufacturer's directions. Make good any damage, resulting from herbicide use at no extra cost.
  - b. Watering when required and in sufficient quantities to saturate the root system.
  - c. Pruning, including the removal of dead or broken branches, and treatment of pruning wounds with approved dressing.
  - d. Disease and insect control when required. Use chemical methods in accordance with the manufacturer's directions. Make good any damage at no extra cost.
  - e. Keep all accessories in good condition and properly adjusted. Repair or replace accessories when required at no extra cost.

## SECTION 32 93 00 – PLANTING

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- .4 The Contractor shall be responsible for making monthly inspections of all plantings during the guarantee period and submit a written report of each inspection to the Landscape Architect.
- .5 The Contractor shall instruct the Landscape Architect in writing of any corrective or preventative measures necessary to ensure healthy plant growth. Any damage to plants shall be reported in writing to the Landscape Architect.
- .6 At the time of acceptance, all material must be in a healthy vigorous growing condition. Beds and tree pits must be free of weeds, rubbish or debris.

### **1.9. Guarantee**

- .1 The guarantee period for approved “collected plants” shall extend for a period of one (1) year beyond the period specified under SECTION 01 78 36 - WARRANTIES.
- .2 During the guarantee period, the Contractor shall make monthly inspections and replace all plants which are dead, missing or which are not in a healthy vigorous growing condition.
- .3 Supply and plant all replacements in strict accordance with Contract Documents and guarantee replacement as specified.
- .4 Tag or mark, in a permanently visible manner, all replacement plant material and notify the Landscape Architect, in writing of the date on which replacements were planted. Include a sketch showing location of replaced plants.
- .5 Plant replacements at a time which is in accordance with good horticultural practice.
- .6 Remove all accessories and cut at grade, those trees which are to be replaced at a later date. Remove plants, which are to be replaced, when found, or when notified by the Landscape Architect.

## **PART II – PRODUCTS**

### **2.1. Plant Material**

- .1 All plant material must be nursery grown and meet the specifications set out in the latest Guide Specifications for Nursery Stock prepared by the Canadian Nursery Trade Association (CNTA) for quality and method of cultivation.
- .2 Nomenclature of specified plants shall conform to the International Code of Nomenclature for Cultivated Plants and the latest edition of Standardized Plant Names.
- .3 Any plant material not conforming to 2.1.1 above will be designated as collected plants.
- .4 Collected plants may only be used when approved in writing, by the Landscape Architect.
- .5 Plant Material: true to name and type, structurally sound, well branched; healthy and vigorous and free from disease, insect infestations, rodent damage, sun scald, frost cracks, and other abrasions to the bark and densely foliated with a healthy, well developed root system. Pruning wounds must show vigorous bark on all edges and all parts must show live and green cambium tissue when cut.

## SECTION 32 93 00 – PLANTING

- 
- .6 All material must conform to the sizes shown on the plant list, except that larger material may be used when approved by the Landscape Architect. Use of larger plants will not increase the contract price.
  - .7 Plant material sizes must conform to the following standards:
    - a. caliper – diameter of the trunk measured 150 mm above the normal grade around the plant.
    - b. height – measured from the normal grade around the plant to the top of the main foliage mass.
    - c. spread – the diameter of the main foliage mass, at its widest point.

### **2.2. Other Material**

- .1 Topsoil: a fertile, friable, natural loam; mechanically screened, containing not less than 4% organic matter for clay loams and not less than 4% organic matter for sandy loams to a maximum of 15% and capable of sustaining vigorous plant growth, free of subsoil contamination, roots and stones over 25mm diameter, reasonably free of weeds (as determined by the Landscape Architect) and having a pH ranging from 6.0 to 7.5.
- .2 Peat moss: partially decomposed fibrous form of cellular stems and leaves of sphagnum moss, free of woody substance and harmful mineral matter, having a pH range of 4.5 to 6.0 and furnished in air dry state packed in standard bags of bales showing the name of the manufacturer.
- .3 Tree Wrap: 225 g burlap supplied in strips 150 mm minimum to 250 mm maximum width or heavy, waterproof crepe paper 100 mm to 150 mm wide.
- .4 Anchor stakes: metal ‘T’ bars: 51 x 51 x 5mm – 2500mm long, or  
Wood stakes: 50 x 50mm - 2130mm long (as specified)
- .6 Wire: #10 galvanized wire for trees 75mm caliper or larger and #11 gauge galvanized wire for smaller trees. Alternative: Use 19mm (3/4” ) Hemp Rope if specified.
- .7 Hose: two ply, reinforced, 20mm diameter, new, black rubber garden hose.
- .8 Mulch: as specified on details.
- .9 Rodent Guards: 300mm Big ‘O’ pipe, 200mm MIN Height.
- .10 Rodent Wrap Tree Protectors : spiral, plastic tree wrap.
- .11 Fertilizer Tablets: as per details.

### **2.3. Mixes**

- .1 Provide standard planting soil mix as follows: 6 parts dark loam topsoil, to 2 parts well-rotted cow manure and 1 part peat moss. (Mix thoroughly and provide sample prior to planting.)
- .2 Add bone meal at the rate of .58 kg per cubic metre and mix thoroughly for each tree or planting bed.
- .3 Be prepared to adjust the above rate in response to the soil analysis report.

## SECTION 32 93 00 – PLANTING

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### **2.4 Planter Soil Mixes**

- .1 Provide soil mix equal as per drawings, or approved.

## **PART III – EXECUTION**

### **3.1. Preparation**

- .1 Obtain the approval of the Landscape Architect of all planting excavations
- .2 Apply topsoil to a depth of 450 mm for shrub and ground cover beds.

### **3.2. Installation of Plant Material**

- .1 Planting shall be done during periods suitable with respect to weather conditions and locally accepted practice and to the Landscape Architect's approval.
- .2 Ensure width of all planting excavations is 3 times the diameter of the root ball.
- .3 Place plant plumb in the centre of the planting pit with a minimum of 150mm of compacted planting soil mixture under the root ball. Face the plant to give the best appearance or relationship to adjacent structures. Cut away any ropes which might girdle the tree. Remove all rope, wire, and burlap from top 1/3 of the root ball.
- .4 Place bare root plants so that the roots lie in a natural position.
- .5 Backfill with planting soil in 150mm layers and firmly tamp each layer to ensure the plant remains plumb. Ensure no air pockets remain around the roots.
- .6 Water thoroughly when hole is 1/2 full of tamped soil mixture and again when the operation is complete.
- .7 Except for plants in planting beds, construct an earth saucer around each plant equal to the diameter of the rootball and 100mm minimum depth to retain water around the roots.

### **3.3. Installation of Planting Accessories**

- .1 Wrap all trees over 50mm caliper. Apply wrapping in a spiral manner from grade to above the second branch. Secure wrapping with suitable cord.
- .2 Stake or guy all trees as outlined in the drawings and detail.

### **3.4. Pruning**

- .1 Prune plants after planting to compensate for root loss and in such a manner that the natural shape and character are retained. Do not cut a leader. Use only clean and sharp tools, conforming to proper horticultural practice.

### **3.5. Mulching**

## SECTION 32 93 00 – PLANTING

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- .1 Where a mulch is called for, place a minimum 100mm depth of shredded bark mulch over the planting area. Use only specified mulch. No other type of mulch is acceptable unless approved in writing by the Landscape Architect.
- .2 Cut and spread a 1200 x 1200 mm piece of approved landscape cloth around the base of each tree and shrub before mulch is spread.

### **3.6. Clean-up**

- .1 At the completion of planting operations, remove all surplus material from the site at no extra cost.
- .2 Make good all damage resulting from planting operations at no extra cost.
- .3 Maintain all areas neat and tidy at all times until final acceptance.

**End of Section**

**LEGEND**

- DENOTES SURVEY MONUMENT FOUND
- WIT DENOTES WITNESS
- IB DENOTES IRON BAR
- SIB DENOTES STANDARD IRON BAR
- OU DENOTES ORIGIN UNKNOWN
- 830 DENOTES E.W. PETZOLD, O.L.S.
- MMM DENOTES MARSHALL, MACKLIN & MONAGHAN, O.L.S.'s
- P1 DENOTES REGISTERED PLAN M-1269
- P2 DENOTES PLAN 66R-7795
- P3 DENOTES PLAN OF SURVEY BY E.W. PETZOLD, O.L.S., DATED SEPTEMBER 06, 1973
- TC DENOTES TOP CURB
- BC DENOTES BOTTOM CURB
- CB DENOTES CATCH BASIN
- MH DENOTES MANHOLE
- LS DENOTES LIGHT STANDARD
- DIA DENOTES DIAMETER
- DENOTES BOLLARD
- DENOTES DECIDUOUS TREE

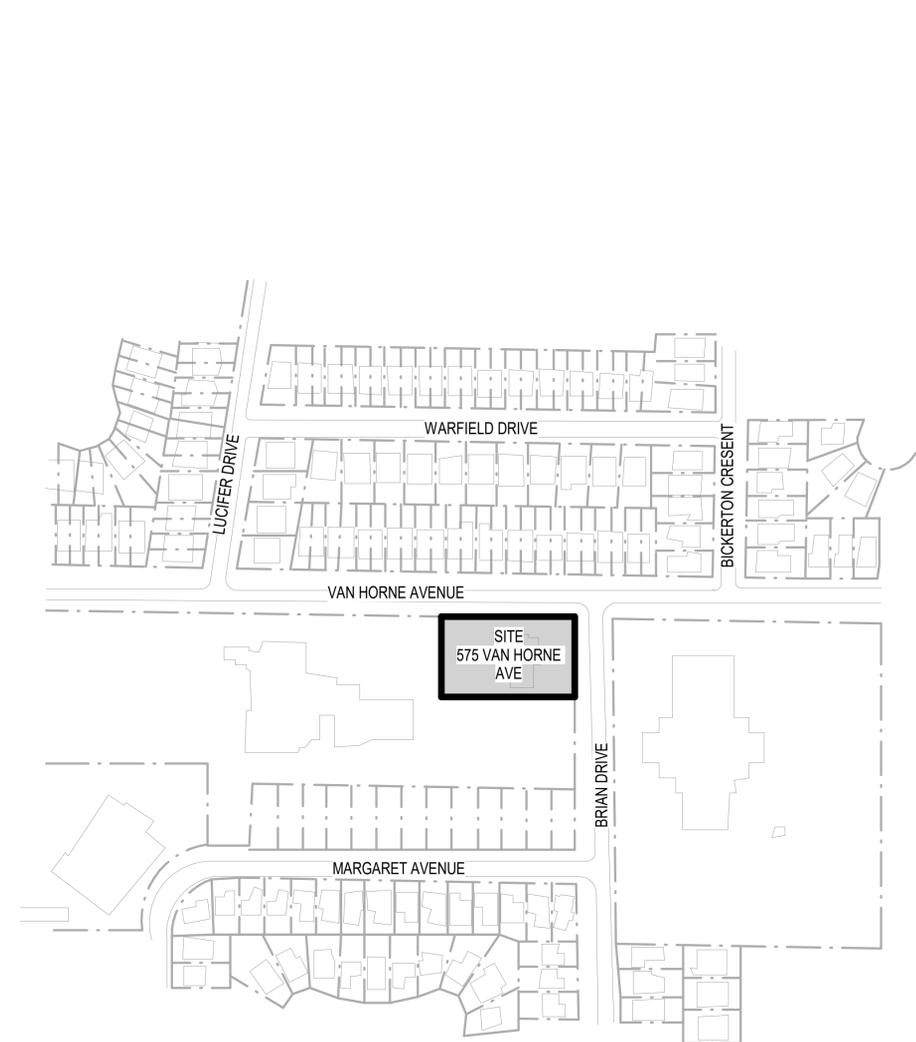
**PROPOSED SITE DEMOLITION AND ALTERATION**

- EXISTING BUILDING ENVELOPE TO REMAIN  
INTERIOR RENOVATIONS ONLY
- PROPOSED DEMOLITION OF EXTERIOR BUILDING ENVELOPE

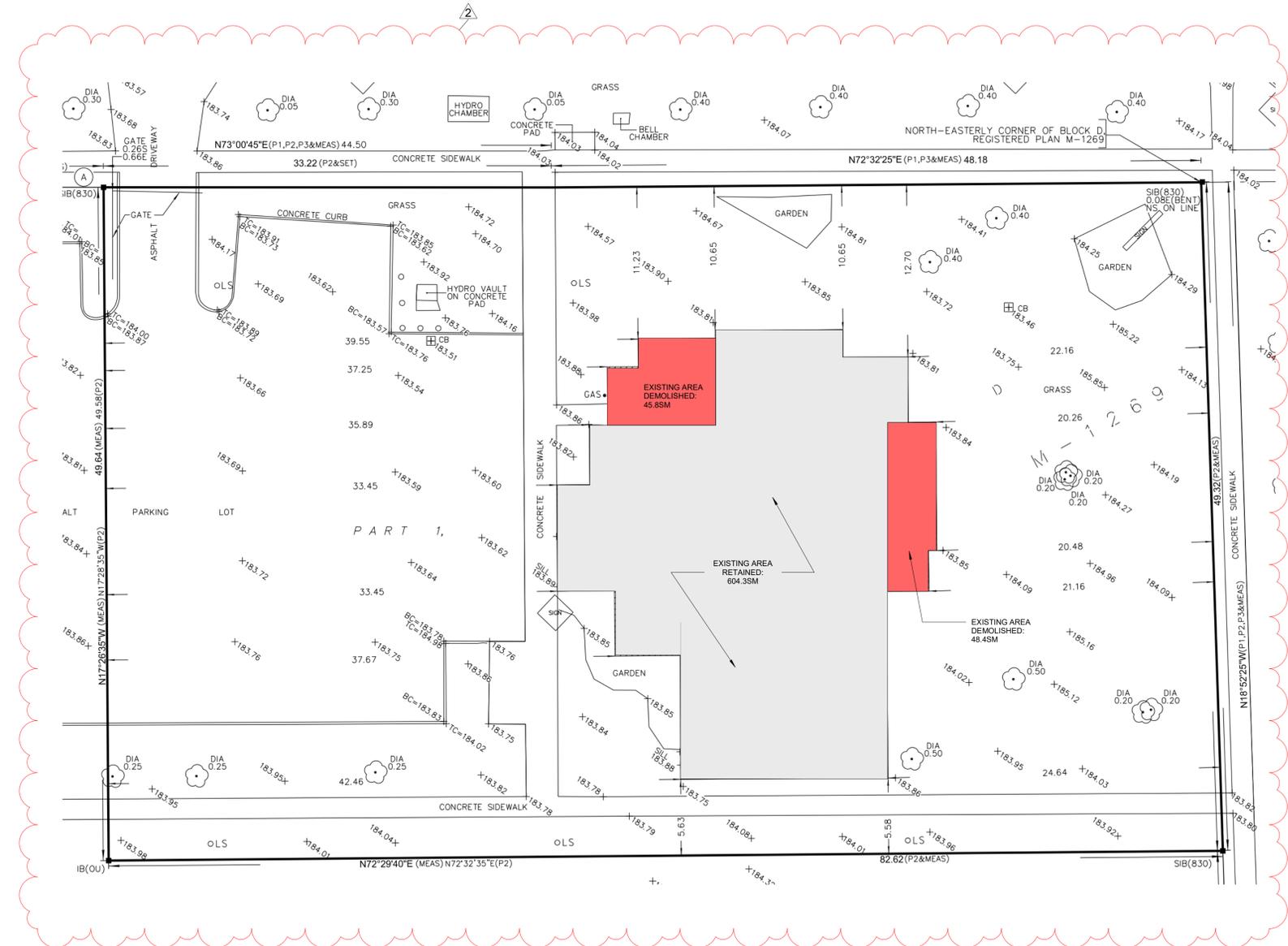
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This drawing, as an instrument of service, is provided by and is the property of LEBEL & BOULIANE INC. and shall be used only for the project named on this drawing and solely for reference purposes only. The contractor is responsible for the coordination and verification of all dimensions contained herein and all measurements and conditions on site as they pertain to these documents. The contractor shall report any discrepancies to the consultant in writing prior to the commencement of any affected work. Do not scale this drawing.

Do not scale this drawing. This drawing shall not be used for construction purposes unless countersigned.



CONTEXT PLAN 1  
1 : 2000 A1.03



PROPOSED SITE ALTERATION AND DEMOLITION PLAN 2  
1 : 200 A1.03

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2	ADDENDUM #01	2025.05.06
1	ISSUE FOR TENDER	2025.04.01

00 ISSUE DATE

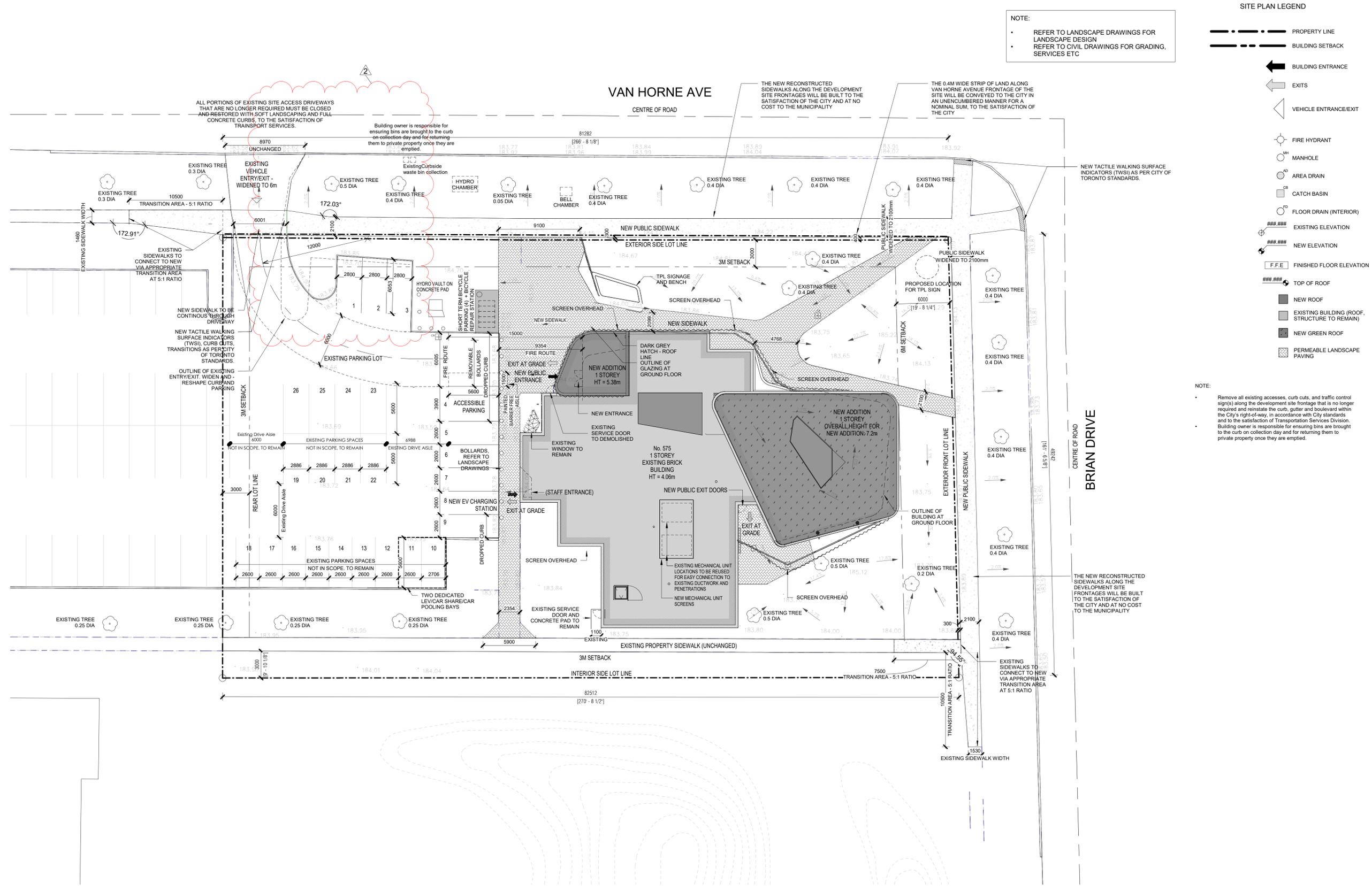
**FOR TENDER**



As indicated @24x36

**CONTEXT AND SITE ALTERATION AND DEMOLITION**

**A1.03**



NOTE:  
 • REFER TO LANDSCAPE DRAWINGS FOR LANDSCAPE DESIGN  
 • REFER TO CIVIL DRAWINGS FOR GRADING, SERVICES ETC

**SITE PLAN LEGEND**

- PROPERTY LINE
- BUILDING SETBACK
- ← BUILDING ENTRANCE
- ← EXITS
- △ VEHICLE ENTRANCE/EXIT
- FIRE HYDRANT
- MANHOLE
- AREA DRAIN
- CATCH BASIN
- FLOOR DRAIN (INTERIOR)
- ### EXISTING ELEVATION
- ### NEW ELEVATION
- ### F.F.E FINISHED FLOOR ELEVATION
- ### TOP OF ROOF
- NEW ROOF
- EXISTING BUILDING (ROOF STRUCTURE TO REMAIN)
- NEW GREEN ROOF
- PERMEABLE LANDSCAPE PAVING

NOTE:  
 • Remove all existing accesses, curb cuts, and traffic control sign(s) along the development site frontage that is no longer required and reinstate the curb, gutter and boulevard within the City's right-of-way, in accordance with City standards and to the satisfaction of Transportation Services Division. Building owner is responsible for ensuring bins are brought to the curb on collection day and for returning them to private property once they are emptied.

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2	ADDENDUM #01	2025.05.06
1	ISSUE FOR TENDER	2025.04.01

00 ISSUE DATE

**FOR TENDER**



As indicated @24x36

**SITE PLAN**



- GENERAL NOTES - PLANS:**
1. WALLS SHOULD EXTEND FROM FLOOR TO UNDERSIDE OF SLAB ABOVE. ANY PENETRATIONS THROUGH WALLS SHOULD BE OVERSIZED, FILLED WITH BATT INSULATION, AND SEALED WITH NON-HARDENING ACOUSTIC CAULK WITH A MIN. MOVEMENT CAPABILITY OF +/-25%. REF TO INTERIOR DETAILS.
  2. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
  3. AT LOCATIONS WHERE MECH. DUCTS INTERFERE WITH FULL HEIGHT CONSTRUCTION OF INTERIOR PARTITIONS, OFFSET PARTITION ABOVE CEILING AND BRACE AS REQUIRED. MAINTAIN FIRE SEPARATION/SOUND RATING OF PARTITION. OFFSETTING OF PARTITIONS WILL ONLY BE PERMITTED WHERE DUCTWORK CANNOT BE POSITIONED.
  4. ALL DIMENSIONS ARE TAKEN TO FACE OF MASONRY OR CONCRETE AT MASONRY AND CONCRETE WALLS AND PARTITIONS. AT STEEL STUD PARTITIONS, DIMENSIONS ARE TAKEN TO CENTRE OF STUD, UNLESS OTHERWISE NOTED.
  5. INCREASE THICKNESS OF WALLS OR FURR OUT WALL THICKNESS AS REQUIRED TO ACCOMMODATE MECHANICAL AND ELECTRICAL PANELS AND SERVICES. MAINTAIN FIRE SEPARATION AROUND BACK OF PANELS WHERE APPLICABLE.
  6. MAKE GOOD ALL EXISTING DRYWALL TO REMAIN.
  7. ALL EXISTING FIRE RATED ASSEMBLIES TO MAINTAIN EXISTING RATING.
  8. ALL EXPOSED CONCRETE, COLUMNS, SLABS ETC PIPING, CONDUIT, DRAINS TO BE PAINTED P1-4.
  9. PROVIDE BLOCKING AS REQUIRED AT ALL WALL MOUNTED AV, MILLWORK LOCATIONS.
  10. FOR MILLWORK REF. AS SERIES.
  11. UNLESS OTHERWISE NOTED, DOOR OPENINGS ARE 101mm FROM ADJACENT RETURN WALL.

- NOTES:**
- GENERAL: INDICATES EXISTING TO REMAIN
  - GENERAL: INDICATES NEW MILLWORK
  - ⤴ ADD DOOR OPERATOR

1. GLAZING TO RECEIVE VINYL FILM GRAPHIC. REFER TO ELEVATIONS, SCHEDULES FOR FURTHER INFORMATION.
2. LOCATION OF DIGITAL DISPLAY TV. PROVIDE BLOCKING AS NECESSARY. REFERENCE ELECTRICAL DWGS FOR ADDITIONAL DETAILS
3. LOCATION OF SELF CHECKOUT. REFERENCE ELECTRICAL DWGS FOR ADDITIONAL DETAILS
4. NEW MILLWORK CIRCULATION DESK
5. PROVIDE BLOCKING AT ALL WALL MOUNTED MILLWORK, AV, EQUIPMENT AND PLUMBING FIXTURES AND ACCESSORIES AS REQUIRED. CO-ORDINATE WITH FURNITURE AND ANY OWNER PROVIDED ITEMS
6. MANUFACTURED LOCKER UNITS WITH DIGITAL LOCKS
7. LOCATION OF 7 COMPUTERS AND PRINTER. REFERENCE ELECTRICAL DWGS FOR DETAILS
8. MILLWORK TOP AND FABRIC DIVIDERS TO COVER COMPUTER DESKS. REFERENCE A9.0 SERIES
9. CORE DRILLING REQUIRED FOR CONDUITING AND FLOOR BOXES. REFER TO ELECTRICAL AND STRUCTURAL DWGS FOR DETAILS
10. SHELVES INSET INTO BUILT OUT WALL
11. NEW MILLWORK DISPLAY SHELVES. REFERENCE A9.0 SERIES
12. LOCATION OF CHILDREN'S COMPUTER. REFERENCE ELECTRICAL DWGS
13. INTERIOR FULL HEIGHT GLAZING
14. INTERIOR HALF HEIGHT GLAZING
15. BOTTLE FILLER - REFER TO SCHEDULES
16. TACTILE ATTENTION INDICATORS AT THE TOP OF STAIRCASES, AND COLOUR CONTRASTING STRIPS ON STAIR TREADS AND ON RAMP LEVEL CHANGES AS REQUIRED BY CSA B651-18.
17. NEW FREESTANDING FLATBAR HANDRAIL. ENGINEERED SHOP DRAWINGS REQUIRED. REFERENCE DRAWINGS FOR DETAILS
18. MILLWORK BANQUETTE. REFERENCE A9.0 SERIES
19. NEW BOOKSHELVES, EXISTING BOOKSHELVES TO BE REFINISHED
20. THROUGH WALL MOUNTED BOOK DROP
21. ELECTRICAL PANELS. REF ELECTRICAL DWGS FOR DETAILS
22. MILLWORK TABLE HEIGHT AND BAR HEIGHT LAPTOP BAR. REFERENCE A9.0 SERIES
23. LOCATION OF PRINTER. COORDINATE WITH ELECTRICAL FOR POWER AND DATA REQUIREMENTS

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**FOR TENDER**



As indicated @24x36

**PLAN - LEVEL 01**

PLAN - LEVEL 01 10  
1 : 100 A2.11

**A2.11**

**GENERAL NOTES - PLANS:**

- REFER TO FINISH SCHEDULE AND PROJECT SPECIFICATION FOR ADDL. INFORMATION.
- REFER TO INTERIOR ELEVATIONS FOR WALL PAINT COLOURS/WALL BASE AND EXTENTS
- REFER TO RCP'S FOR CEILING PAINT COLOURS.
- ALL CEILINGS TO REMAIN EXPOSED UNLESS OTHERWISE NOTED. UNDERSIDE OF SLAB TO BE PRIMED AND PAINTED. COLOUR AS PER FINISH SCHEDULE.
- ALL VISIBLE ELEMENTS AT EXPOSED CEILINGS AND ELEMENTS INCLUDING DUCTWORK, PIPING CONDUIT ARE TO BE PRIMED AND PAINTED. COLOUR AS PER FINISH SCHEDULE.
- ALL EXISTING STRUCTURE ABOVE WOOD SLATS TO BE PAINTED. COLOUR AS PER FINISH SCHEDULE.
- ALL PERIMETER EXTERIOR WALLS TO BE PAINTED.
- ALL EXPOSED CONDUIT ON WALL/COLUMNS TO BE PAINTED TO MATCH WALL/COLUMN.
- REF. FINISH LEGEND FOR FINISHES, ADDL. NOTES, ETC.
- ALL COLUMNS TO BE PAINTED PT-5
- REF A1.10, A2.31-A2.42 FOR CEILING PANEL INFO
- REF A8.10 FOR FLOOR TRANSITION DETAILS

**LEGEND - FINISH SYMBOLS**

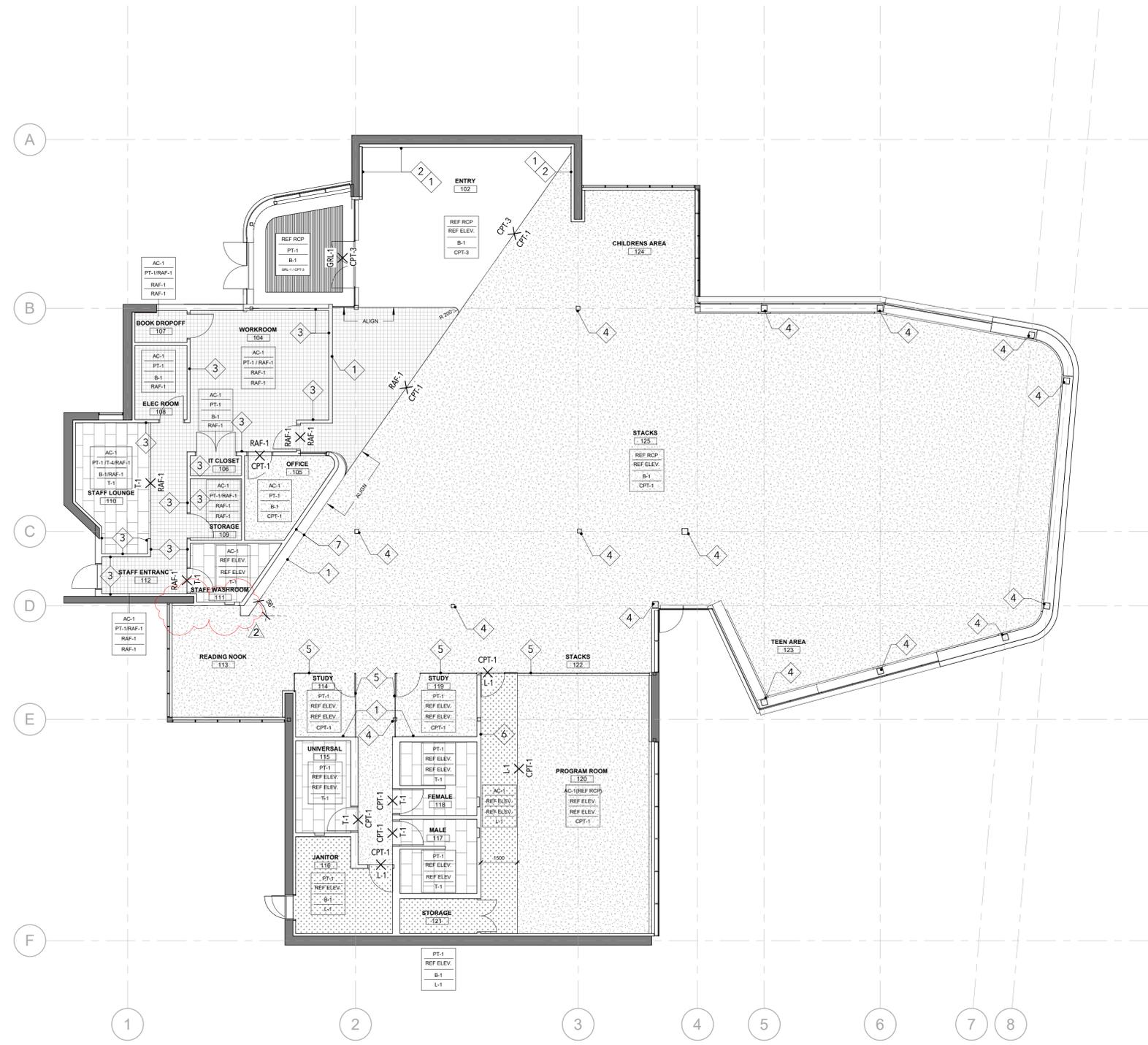
-  CPT - 1
-  CPT - 2
-  RAF - 1
-  L - 1
-  GR - 1
-  T - 1

CEILING
WALL
BASE
FLOOR

NOTE: WALL BASE FINISHES NOTED ON ELEVATIONS  
CEILING FINISHES NOTED ON CEILING PLAN

**KEY NOTES - FINISH**

- ACOUSTIC FELT PANELS ON WALL. REFERENCE FINISH SCHEDULE
- SLAT DISPLAY BOARD MOUNTED ON WALL. REFERENCE FINISH SCHEDULE
- RESILIENT ATHLETIC FLOORING (RAF-1) TO BE MOUNTED ON WALL (CONTINUE FROM FLOOR TO 3' ABOVE GROUND) METAL TRIM TO CAP OFF RAF-1 ON WALL
- ALL COLUMNS TO BE MATCHING MULLION CHAMPAGNE COLOUR
- VINYL GRAPHIC ON GLAZING. REFERENCE ELEVATION
- VINYL GRAPHIC ON PAINTED WALL. REFERENCE ELEVATION
- REMOVABLE SHELVES HERE WITHIN WALL NICHE. SO CARPET TO RUN INSIDE NICHE



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**FINISH PLAN - LEVEL 01**  
01



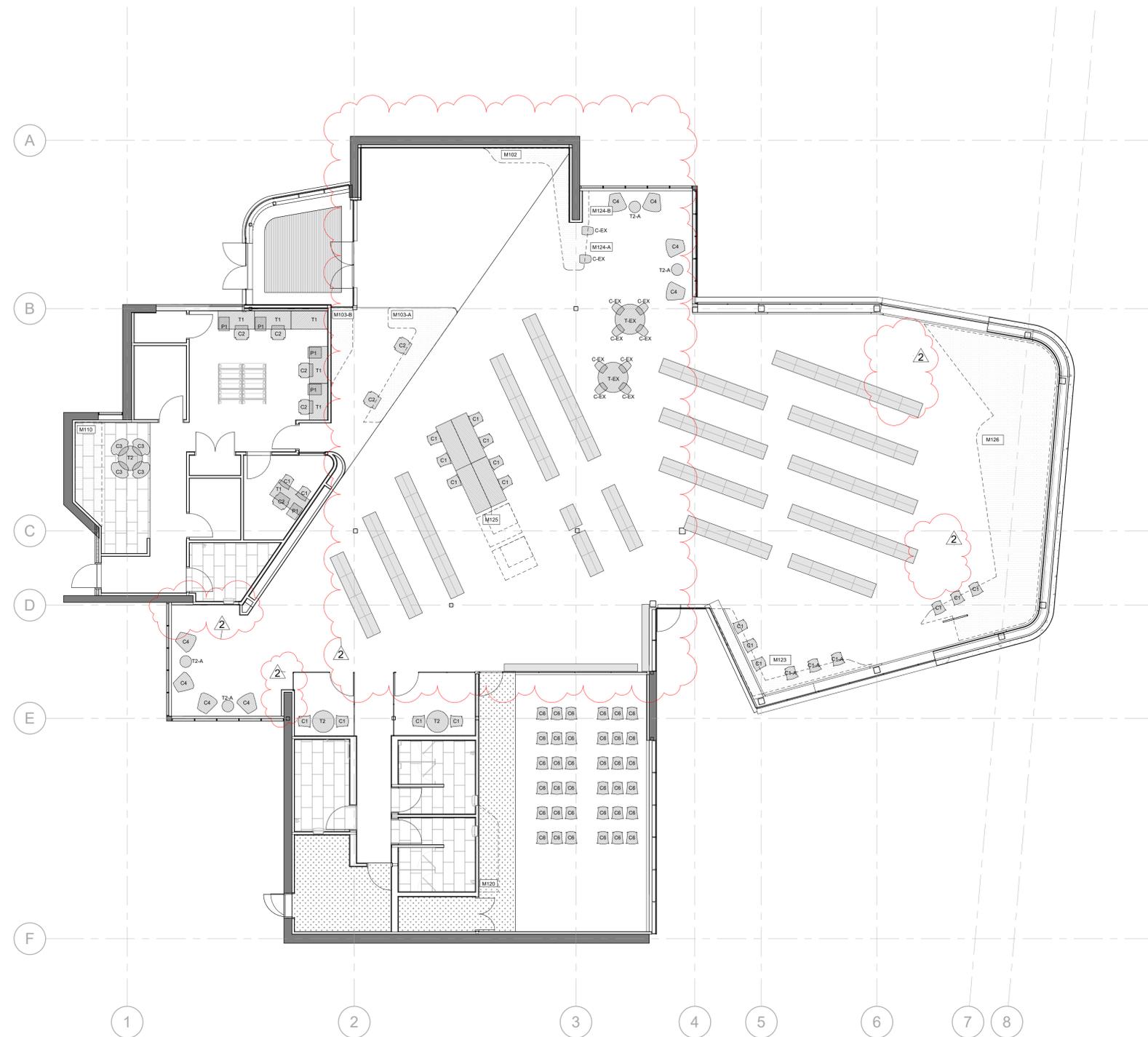
GENERAL NOTES - FURNITURE PLAN:

1. COORDINATE ALL FURNITURE WITH ELECTRICAL. REFERENCE ELECTRICAL DWGS.
2. TPL TO PROCURE FURNITURE, GC TO ENSURE DATA LINES AND POWER ARE PROVIDED FOR FURNITURE CONNECTION ETC
3. SHELVING TO BE PROVIDED BY TPL

LEGEND:

-  MILLWORK
-  FURNITURE
-  SHELVING

- C1 CHAIR: ARPER AAVA
  - C1A BAR HEIGHT CHAIR: ARPER AAVA
  - C2 TASK CHAIR: STEELCASE SERIES 1
  - C3 CHAIR: ARPER DUNA 02
  - C4 LOUNGE CHAIR: HIGHTOWER CAPRI LOUNGE
  - C5 NOT USED
  - C6 CHAIR: ARPER AAVA SLED
  - C-EX EXISTING CHAIR
  - T1 STAFF WORKSTATION: STEELCASE ANSWER
  - T2 CAFE TABLE: ALLEMUIR AXYL
  - T2-A SMALL ROUND CAFE TABLE
  - T3 WORKSTATION: STEELCASE ANSWER
  - T4 FLIP TOP TABLE: HERMAN MILLER EVERYWHERE
  - T-EX EXISTING TABLE
  - P1 STORAGE PEDASTAL: CB2 / STEELCASE PEDASTALS
- LISTED FURNITURE IS NOT FINAL, FOR REFERENCE ONLY, NOT FINAL TPL SELECTION



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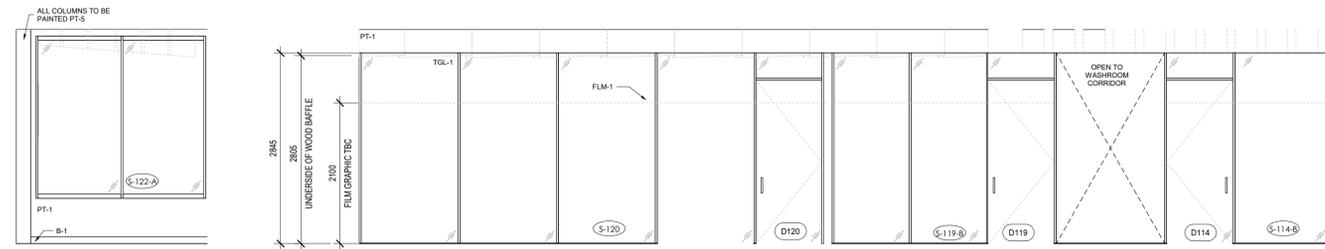
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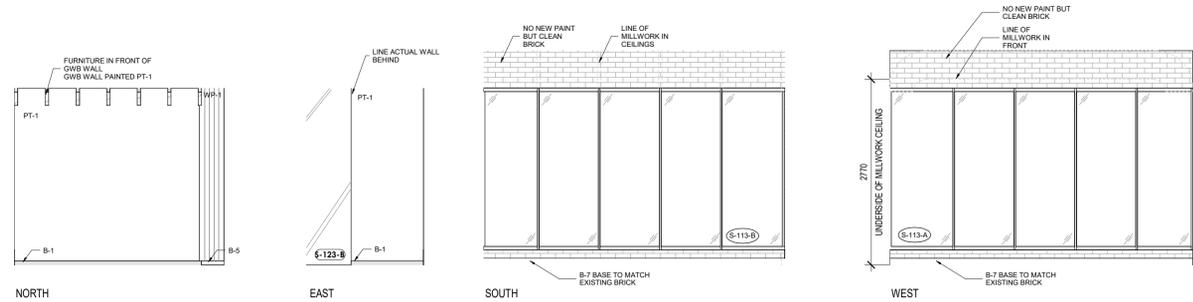


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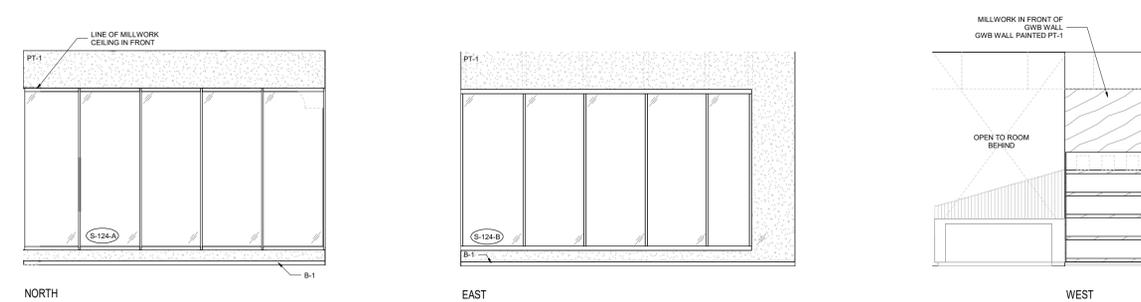
**FURNITURE PLAN - LEVEL 01**



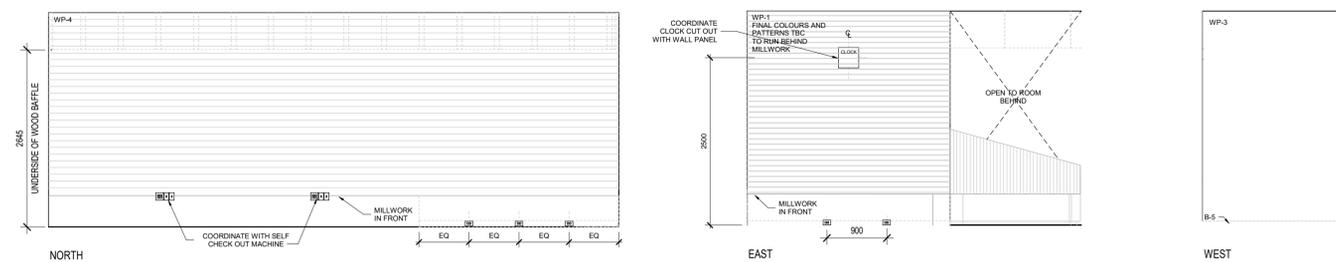
STUDY ROOM EXTERIOR 40  
1 : 50 A6.03



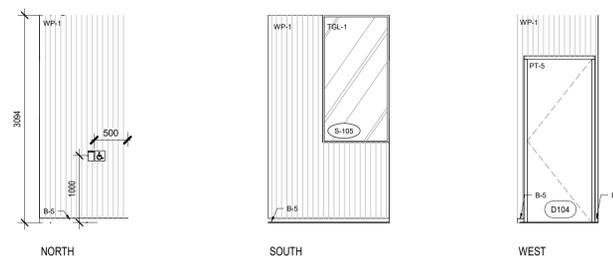
ADULT READING LOUNGE 31  
1 : 50 A6.03



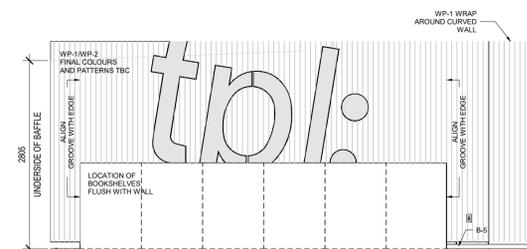
CHILDREN'S READING LOUNGE 30  
1 : 50 A6.03



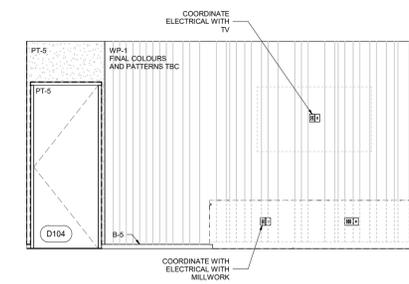
SELF CHECKOUT 20  
1 : 50 A6.03



STAFF AREA ENTRY 13  
1 : 50 A6.03



RECEPTION WALL - SOUTH 11  
1 : 50 A6.03



RECEPTION WALL 10  
1 : 50 A6.03

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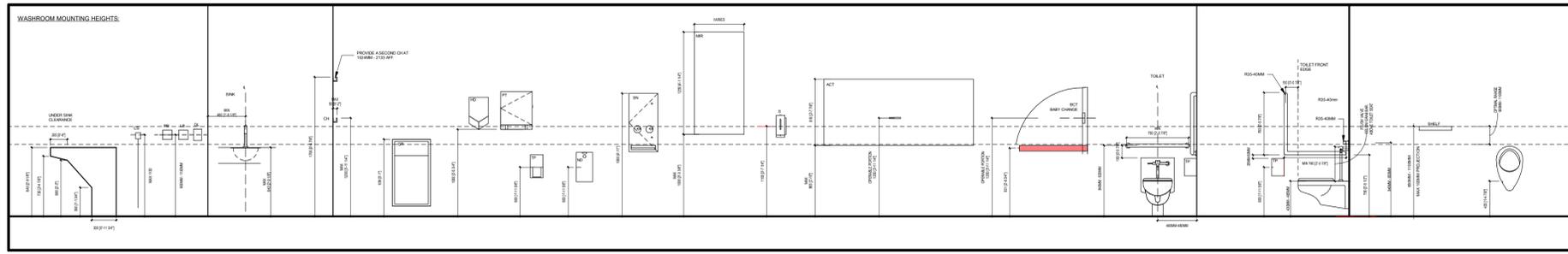
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1 : 50 @24x36

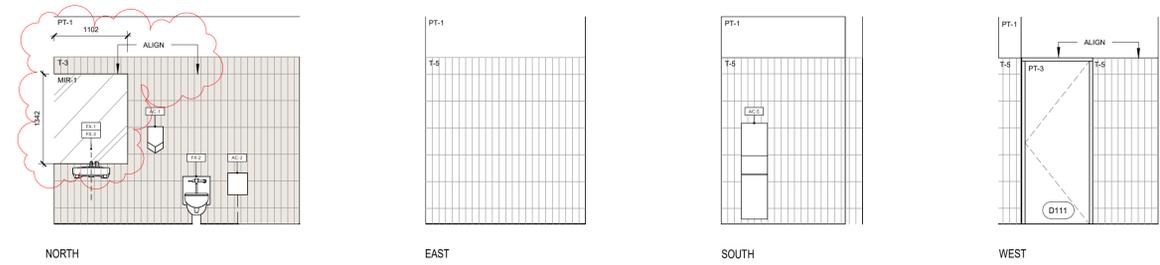
INTERIOR ELEVATIONS

A6.03

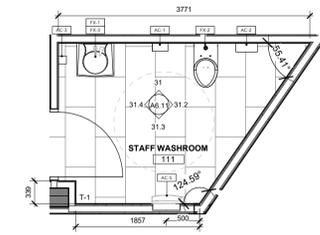
WASHROOM ACCESSORY LEGEND:		NOTE:
ACT	ADULT CHANGE TABLE	FIGURE INTERFERENCE AND / OR OBSTRUCTIONS SHOULD BE BROUGHT TO ARCHITECTS ATTENTION PRIOR TO INSTALLATION. <b>WASHROOM ACCESSORY NOTES:</b> 1. PROVIDE BLOCKING AS REQUIRED FOR ALL WASHROOM ACCESSORIES. 2. REFER TO AND COORDINATE WITH ELECTRICAL AND MECHANICAL DRAWINGS.
CH	COAT HOOK	
CS	EMERGENCY CALL SYSTEM	
CT	CHANGE TABLE	
GB	GRAB BARS	
HD	ELECTRIC HAND DRYER	
MRS	MIRROR	
ND	SANITARY NAPKIN DISPOSAL	
PF	BARRIER FREE DOOR PUSH BUTTON	
PT	PAPER TOWEL DISPENSER	
SD	SOAP DISPENSER	
SN	SANITARY NAPKIN DISPENSER	
TP	TOILET PAPER DISPENSER	
TSC	TOILET SEAT COVER	
WR	WASTE RECEPTACLE	



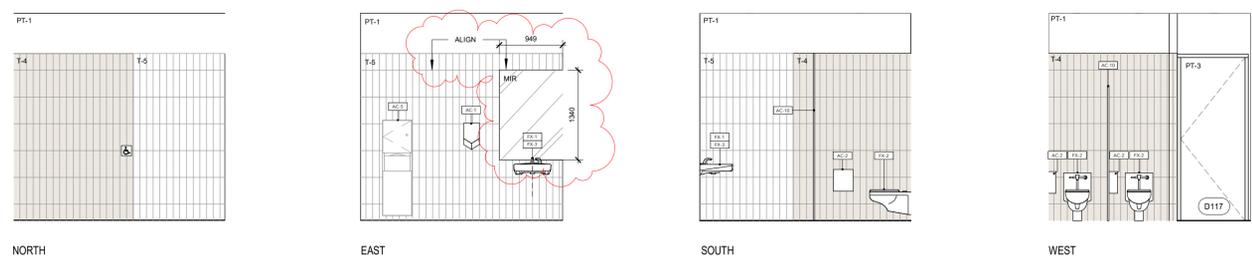
WASHROOM MOUNTING HEIGHT 40  
1 : 35 A6.11



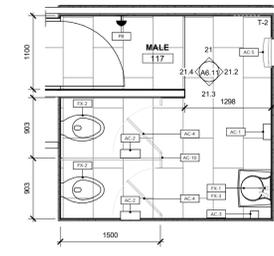
STAFF WASHROOM ELEVATION 31  
1 : 50 A6.11



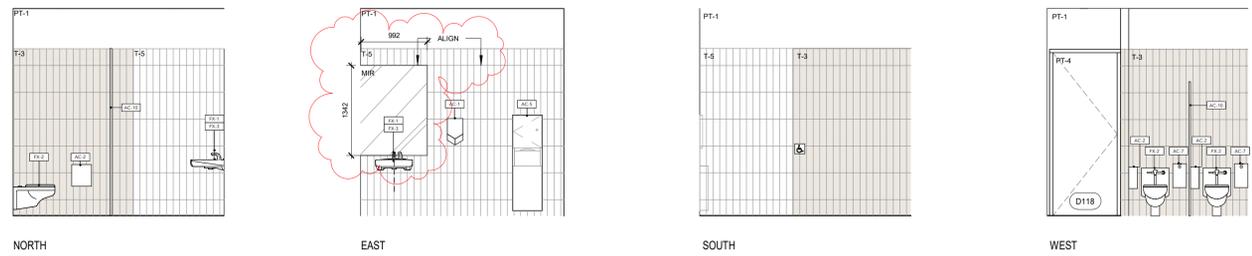
STAFF WASHROOM PLAN 30  
1 : 50 A6.11



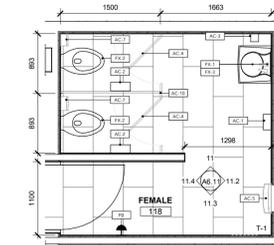
MALE WASHROOM ELEVATION 21  
1 : 50 A6.11



MALE WASHROOM PLAN 20  
1 : 50 A6.11



FEMALE WASHROOM ELEVATION 11  
1 : 50 A6.11



FEMALE WASHROOM PLAN 10  
1 : 50 A6.11

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**WASHROOM PLANS + ELEVATIONS**

**A6.11**

HARDWARE GROUP 1					
Qty	Description	Catalogue No.	Finish	Notes	
4	HINGE	5881 5 X 4.5 NRP	652	IVE	
1	EA	POWER TRANSFER	689	VON	
1	EA	REMOVABLE MULLION	494	VON	
1	EA	PANIC HARDWARE	98E0	VON	
1	EA	ELEC PANIC HARDWARE	RV-GEL-98-NL-COIN 24 VDC	628	VON
1	EA	RIM CYLINDER	20-021 (CMK)	628	SCH
1	EA	PERMANENT CORES	PROVIDED BY OWNER		
1	EA	OH STOP	1005	630	GLY
1	EA	OH STOP	1005 ADJ	630	GLY
1	EA	SURFACE CLOSER	46400P TOP JAMB LONG ARM	689	LCN
1	EA	SURF. AUTO OPERATOR	9542 AS REQ (100240 VAC)	ANCLR	LCN
1	EA	FLUSH CEILING MTO PLATE	4640P-183	689	LCN
1	EA	WEATHER RING	8310-802	689	LCN
2	EA	ACTUATOR TOUCH	8310-802T	630	LCN
1	EA	MOUNT BOX	8310-866F	630	LCN
1	EA	MOUNT BOX	8310-866S	630	LCN
2	EA	KICK PLATE	8400 205MM X LDW	630	IVE
1	EA	GASKETING	33AA-6 18"HEAD 2B/JAMB	AA	ZER
2	EA	DOOR SWEEP	8192AA	AA	ZER
1	EA	THRESHOLD	62SA	A	ZER
1	EA	WIRE HARNESS	CON_____ TO SUIT		SCH
1	EA	WIRE HARNESS	CON-4W		SCH
1	EA	CARD READER	BY DIV. 28		SCH
2	EA	DOOR CONTACT	679-05_10 SUIT	BLK	SCB
1	EA	POWER SUPPLY	P5962 900-4HL 120/240 VAC	LGR	SCB

NOTE:  
ADD TO BE PAINTED BLACK  
PROVIDE SUFFICIENT REINFORCING FOR AUTO OPERATOR MOUNTING

HARDWARE GROUP 4					
Qty	Description	Catalogue No.	Finish	Notes	
4	HINGE	5881 5 X 4.5 NRP	652	IVE	
1	EA	MANUAL FLUSH BOLT	F858	628	IVE
1	EA	STOREROOM LOCK	L508P 178 (CMK)	630	SCH
1	EA	PERMANENT CORES	PROVIDED BY OWNER		
2	EA	OH STOP & HOLDER	90H	630	GLY

NOTE:

HARDWARE GROUP 5					
Qty	Description	Catalogue No.	Finish	Notes	
3	EA	HINGE	5881 5 X 4.5 NRP	652	IVE
1	EA	CLASSROOM LOCK	L5070P 178 (CMK)	630	SCH
1	EA	PERMANENT CORES	PROVIDED BY OWNER		
1	EA	ELECTRIC STRIKE	6211WF FS CON 1216/2428 VAC/VDC	630	VON
1	EA	SURF. AUTO OPERATOR	9131 MS AS REQ (120 VAC)	ANCLR	LCN
1	EA	AURA PUSH TO LOCK	CM-46-60P/SP/E1	630	CAM
2	EA	ILLUMINATED ACTUATOR	CM-46-60P/SP/E1	630	CAM
1	EA	KICK PLATE	8400 205MM X LDW	630	IVE
1	EA	WALL STOP	WS406407CVX	630	IVE
1	EA	ADVANCED LOGIC RELAY	CK-33		CAM
1	EA	EMERGENCY CALL KIT	CK-REC10		CAM
1	EA	WIRE HARNESS	CON-4W		SCH
1	EA	DOOR CONTACT	679-05_10 SUIT	BLK	SCH
1	EA	POWER SUPPLY	P5902 900-8F 120/240 VAC	LGR	SCH

NOTE:

HARDWARE GROUP 6					
Qty	Description	Catalogue No.	Finish	Notes	
3	EA	HINGE	5881 5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	L508P 178 (CMK)	630	SCH
1	EA	PERMANENT CORE	PROVIDED BY OWNER		
1	EA	SURFACE CLOSER	1461 REG	689	LCN
1	EA	KICK PLATE	8400 205MM X LDW	630	IVE
1	EA	WALL STOP	WS406407CVX	630	IVE
1	EA	SMOKE SEAL	18888 PSA	BK	ZER

NOTE:

HARDWARE GROUP 7					
Qty	Description	Catalogue No.	Finish	Notes	
3	EA	HINGE	5881 5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	L5070P 178 (CMK)	630	SCH
1	EA	PERMANENT CORES	PROVIDED BY OWNER		
1	EA	SURFACE CLOSER	1461 DEL REG	689	LCN
1	EA	KICK PLATE	8400 205MM X LDW	630	IVE
1	EA	WALL STOP	WS406407CVX	630	IVE
1	EA	SMOKE SEAL	18888 PSA	BK	ZER

NOTE:

HARDWARE GROUP 8					
Qty	Description	Catalogue No.	Finish	Notes	
3	EA	HINGE	5881 5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	L5070P 178 (CMK)	630	SCH
1	EA	PERMANENT CORES	PROVIDED BY OWNER		
1	EA	ELECTRIC STRIKE	6211WF FS CON 1216/2428 VAC/VDC	630	VON
1	EA	SURF. AUTO OPERATOR	9131 MS AS REQ (120 VAC)	ANCLR	LCN
1	EA	KEY SWITCH	8310-800K	BLK	LCN
2	EA	ACTUATOR TOUCH	8310-802T	630	LCN
2	EA	MOUNT BOX	8310-866F	630	LCN
1	EA	KICK PLATE	8401 205MM X LDW	630	IVE
1	EA	WALL STOP	WS406407CVX	630	IVE
1	EA	WIRE HARNESS	CON-4W		SCH

NOTE:

HARDWARE GROUP 9					
Qty	Description	Catalogue No.	Finish	Notes	
3	EA	HINGE	5881 5 X 4.5 NRP	652	IVE
1	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	ELEC PANIC HARDWARE	RV-GEL-98-NL-COIN 24 VDC	628	VON
1	EA	RIM CYLINDER	20-021 (CMK)	628	SCH
1	EA	PERMANENT CORES	PROVIDED BY OWNER		
1	EA	OH STOP	1005	630	GLY
1	EA	OH STOP	1005 ADJ	630	GLY
1	EA	SURFACE CLOSER	46400P TOP JAMB LONG ARM	689	LCN
1	EA	SURF. AUTO OPERATOR	9542 AS REQ (100240 VAC)	ANCLR	LCN
1	EA	FLUSH CEILING MTO PLATE	4640P-183	689	LCN
2	EA	ACTUATOR TOUCH	8310-802T	630	LCN
2	EA	MOUNT BOX	8310-866F	630	LCN
2	EA	KICK PLATE	8400 205MM X LDW	630	IVE
1	EA	GASKETING	33AA-6 18"HEAD 2B/JAMB	AA	ZER
2	EA	DOOR SWEEP	8192AA	AA	ZER
1	EA	THRESHOLD	62SA	A	ZER
1	EA	WIRE HARNESS	CON_____ TO SUIT		SCH
1	EA	WIRE HARNESS	CON-4W		SCH
1	EA	CARD READER	BY DIV. 28		SCH
2	EA	DOOR CONTACT	679-05_10 SUIT	BLK	SCB
1	EA	POWER SUPPLY	P5962 900-4HL 120/240 VAC	LGR	SCB

NOTE:

HARDWARE GROUP 10					
Qty	Description	Catalogue No.	Finish	Notes	
3	EA	HINGE	5881 5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	L508P 178 (CMK)	630	SCH
1	EA	PERMANENT CORES	PROVIDED BY OWNER		
1	EA	ELECTRIC STRIKE	6211WF FS CON 1216/2428 VAC/VDC	630	VON
1	EA	SURF. AUTO OPERATOR	9131 MS AS REQ (120 VAC)	ANCLR	LCN
1	EA	AURA PUSH TO LOCK	CM-46-60P/SP/E1	630	CAM
2	EA	ILLUMINATED ACTUATOR	CM-46-60P/SP/E1	630	CAM
1	EA	KICK PLATE	8400 205MM X LDW	630	IVE
1	EA	WALL STOP	WS406407CVX	630	IVE
1	EA	ADVANCED LOGIC RELAY	CK-33		CAM
1	EA	EMERGENCY CALL KIT	CK-REC10		CAM
1	EA	WIRE HARNESS	CON-4W		SCH
1	EA	DOOR CONTACT	679-05_10 SUIT	BLK	SCH
1	EA	POWER SUPPLY	P5902 900-8F 120/240 VAC	LGR	SCH

NOTE:

HARDWARE GROUP 11					
Qty	Description	Catalogue No.	Finish	Notes	
3	EA	HINGE	5881 5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	L508P 178 (CMK)	630	SCH
1	EA	PERMANENT CORES	PROVIDED BY OWNER		
1	EA	ELECTRIC STRIKE	6211WF FS CON 1216/2428 VAC/VDC	630	VON
1	EA	SURF. AUTO OPERATOR	9131 MS AS REQ (120 VAC)	ANCLR	LCN
1	EA	AURA PUSH TO LOCK	CM-46-60P/SP/E1	630	CAM
2	EA	ILLUMINATED ACTUATOR	CM-46-60P/SP/E1	630	CAM
1	EA	KICK PLATE	8400 205MM X LDW	630	IVE
1	EA	WALL STOP	WS406407CVX	630	IVE
1	EA	ADVANCED LOGIC RELAY	CK-33		CAM
1	EA	EMERGENCY CALL KIT	CK-REC10		CAM
1	EA	WIRE HARNESS	CON-4W		SCH
1	EA	DOOR CONTACT	679-05_10 SUIT	BLK	SCH
1	EA	POWER SUPPLY	P5902 900-8F 120/240 VAC	LGR	SCH

NOTE:

HARDWARE GROUP 12					
Qty	Description	Catalogue No.	Finish	Notes	
3	EA	HINGE	5881 5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	L508P 178 (CMK)	630	SCH
1	EA	PERMANENT CORES	PROVIDED BY OWNER		
1	EA	SURFACE CLOSER	1461 DEL REG	689	LCN
1	EA	KICK PLATE	8400 205MM X LDW	630	IVE
1	EA	WALL STOP	WS406407CVX	630	IVE
1	EA	SMOKE SEAL	18888 PSA	BK	ZER

NOTE:

HARDWARE GROUP 13					
Qty	Description	Catalogue No.	Finish	Notes	
3	EA	HINGE	5881 5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	L5070P 178 (CMK)	630	SCH
1	EA	PERMANENT CORES	PROVIDED BY OWNER		
1	EA	ELECTRIC STRIKE	6211WF FS CON 1216/2428 VAC/VDC	630	VON
1	EA	SURF. AUTO OPERATOR	9131 MS AS REQ (120 VAC)	ANCLR	LCN
1	EA	KEY SWITCH	8310-800K	BLK	LCN
2	EA	ACTUATOR TOUCH	8310-802T	630	LCN
2	EA	MOUNT BOX	8310-866F	630	LCN
1	EA	KICK PLATE	8401 205MM X LDW	630	IVE
1	EA	WALL STOP	WS406407CVX	630	IVE
1	EA	WIRE HARNESS	CON-4W		SCH

NOTE:

HARDWARE GROUP 14					
Qty	Description	Catalogue No.	Finish	Notes	
3	EA	HINGE	5881 5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	L5070P 178 (CMK)	630	SCH
1	EA	PERMANENT CORES	PROVIDED BY OWNER		
1	EA	SURFACE CLOSER	1461 DEL REG	689	LCN
1	EA	KICK PLATE	8400 205MM X LDW	630	IVE
1	EA	WALL STOP	WS406407CVX	630	IVE

NOTE:

HARDWARE GROUP 15					
Qty	Description	Catalogue No.	Finish	Notes	
6	EA	HINGE	5881 5 X 4.5 NRP	652	IVE
1	EA	MANUAL FLUSH BOLT	F858	628	IVE
1	EA	STOREROOM LOCK	L508P 178 (CMK)	630	SCH
1	EA	PERMANENT CORES	PROVIDED BY OWNER		
1	EA	SURFACE CLOSER	1461 CLUSH STD	689	LCN
2	EA	WALL STOP	WS406407CVX	630	IVE

NOTE:

DOOR SCHEDULE																
DOOR NUMBER	DOOR TYPE	ROOM	DOOR		FIRE RATING	DOOR		DOOR		FRAME		ACCESS CONTROL	AUTOMATIC DOOR OPERATOR	HARDWARE TYPE	REMARKS	
			FIN. WIDTH	FIN. HEIGHT		DOOR THICKNESS	MATERIAL	CORE	FINISH	GLASS	MATERIAL					FINISH
D101	G	VESTIBULE	1900	2440	NA	AL	AL	PC	YES	AL	PC (POWDER COAT)	Yes	YES	01	Coordinate with elec, provide CBH door stop	
D102	G	VESTIBULE	1900	2440	NA	AL	AL	PC	YES	AL	PC	Yes	YES	02	Coordinate with elec, provide CBH door stop	
D104	D	WORKROOM	965	2440	38	WD	SC	PT1	YES	SC	PT1	Yes	YES	03	Coordinate with elec, provide CBH door stop	
D105	D	OFFICE	965	2440	38	WD	SC	PT1	YES	SC	PT1	Yes	NO	03	Coordinate with elec, provide CBH door stop	
D106	C	IT CLOSET	1600	2440	38	WD	SC	PT1	NO	SC	PT1	Yes	NO	04	Coordinate with elec, provide CBH door stop	
D107	H	BOOK DROP	965	2440	3/4 HR	38	AL	AL	PC	NO	AL	PC	No	NO	05	Provide CBH door stop
D108	A	ELEC ROOM	965	2440	38	WD	SC	PT1	NO	SC	PT1	Yes	NO	06	Coordinate with elec, provide CBH door stop	
D109	A	STORAGE	965	2440	38	WD	SC	PT1	NO	SC	PT1	Yes	NO	07	Coordinate with elec, provide CBH door stop	
D111	A	STAFF WASHROOM	965	2440	38	WD	SC	PT1	NO	SC	PT1	Yes	NO	08	Coordinate with elec, provide CBH door stop	
D112	E	STAFF ENTRANCE	965	2440	NA	HM	SC	PC	NO	HM	PC	Yes	YES	09	Coordinate with elec, provide CBH door stop	
D114	B	STUDY	965	2440	38	GL	-	-	YES	-	-	No	NO	10		

**ELEVATION LEGEND**

	VISION GLASS
	VISION GLASS WITH BIRD FRIENDLY FRIT PATTERN
	VIN - 2: VINYL GRAPHIC FILM (DESIGN TBD)

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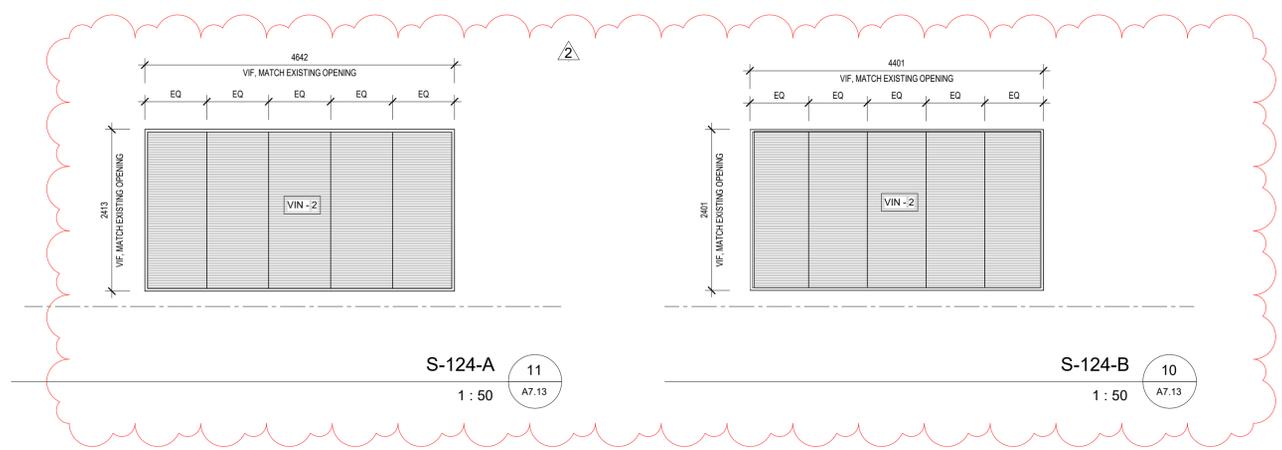
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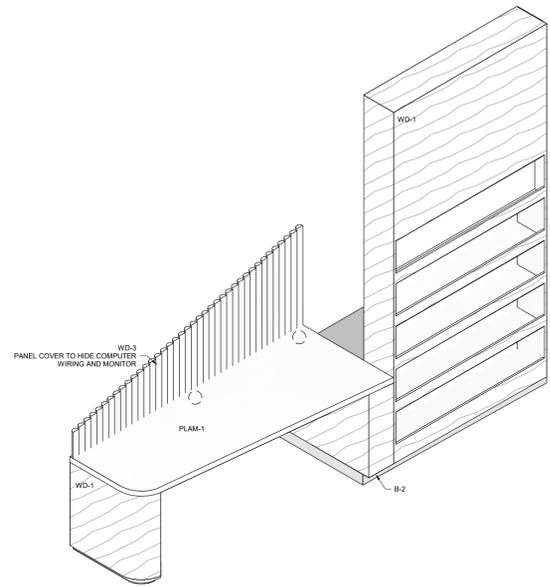
**WINDOW/SCREEN SCHEDULE**

**A7.13**

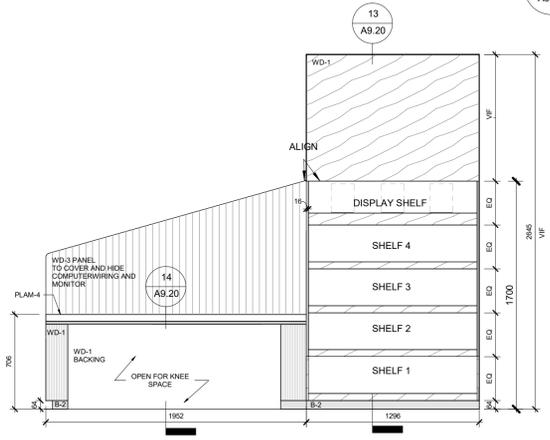


S-124-A  
 11  
 1 : 50  
 A7.13

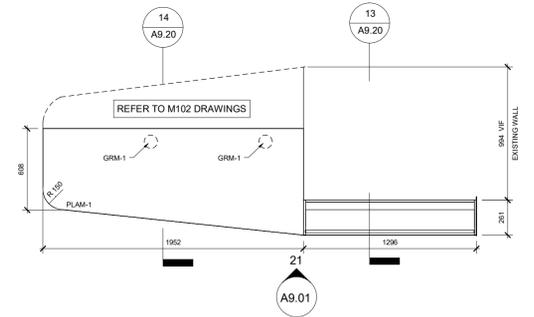
S-124-B  
 10  
 1 : 50  
 A7.13



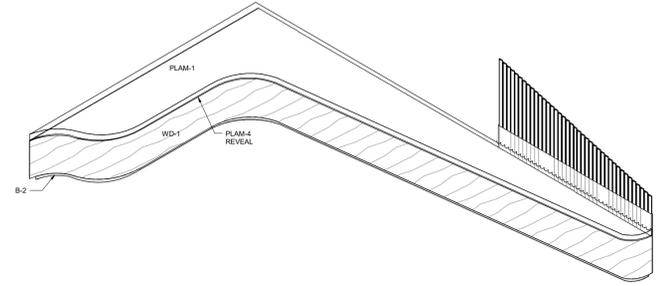
M124-A/B 3D 31  
A9.01



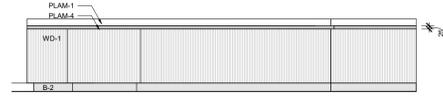
M-124-A/B ELEVATION 21  
1 : 25 A9.01



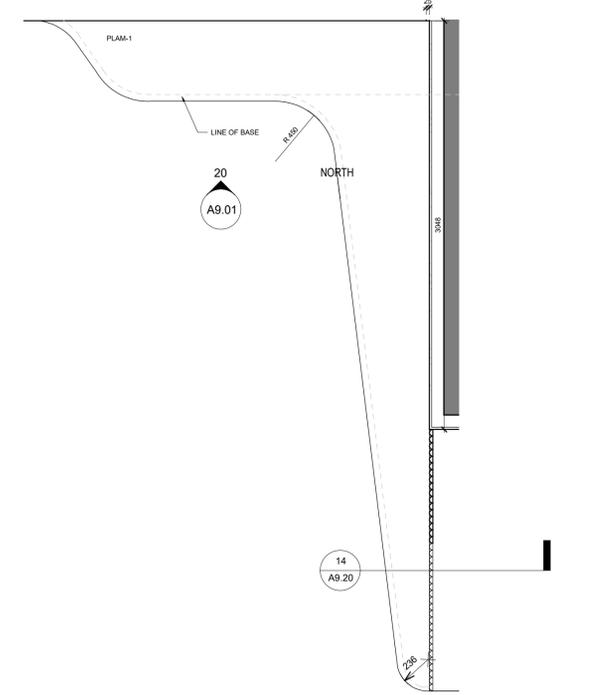
M124-A/B PLAN 11  
1 : 25 A9.01



M102 3D 30  
A9.01



M102 - ELEVATION 20  
1 : 25 A9.01



M102 - PLAN 10  
1 : 25 A9.01

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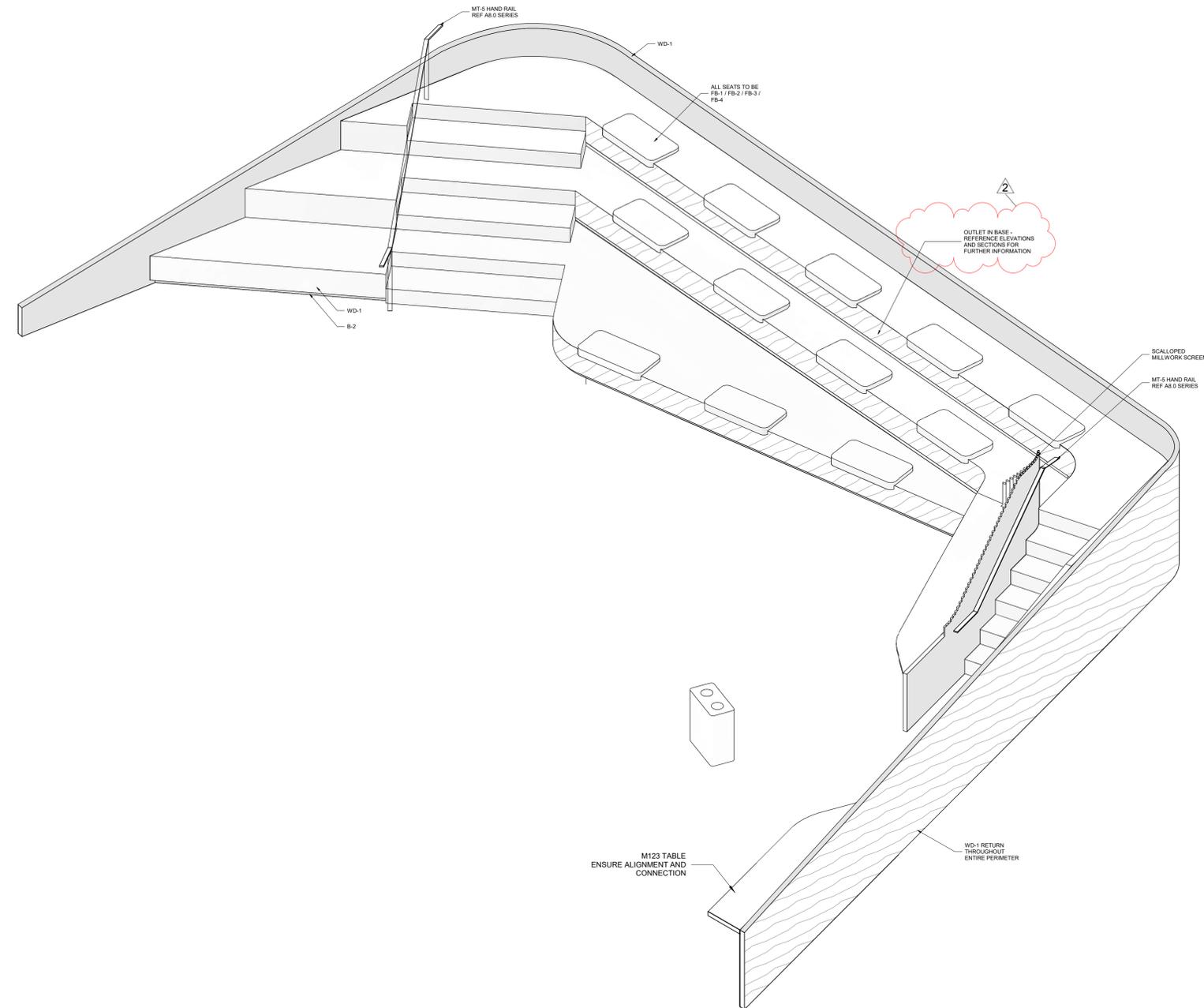
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**MILLWORK**

**A9.01**





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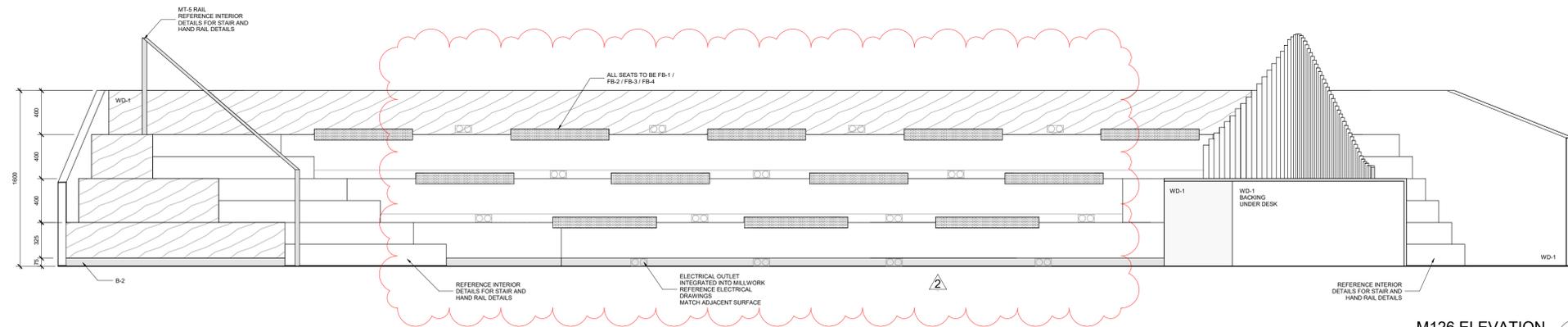
**MILLWORK -  
STEPPED SEATING**

M126 3D VIEW

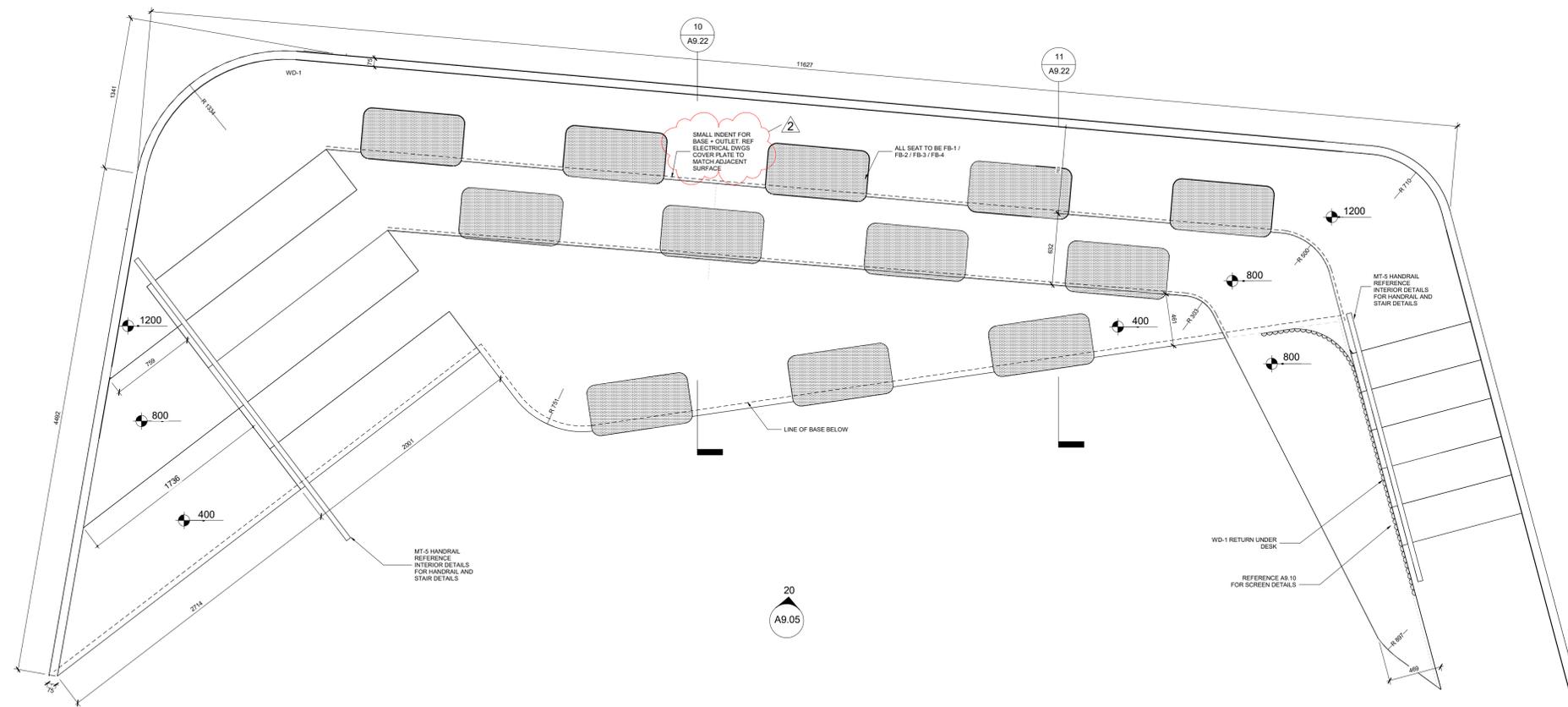
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A9.04

**A9.04**



M126 ELEVATION 20  
1 : 25 A9.05



M126 PLAN 10  
1 : 25 A9.05

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**MILLWORK - STEPPED SEATING**

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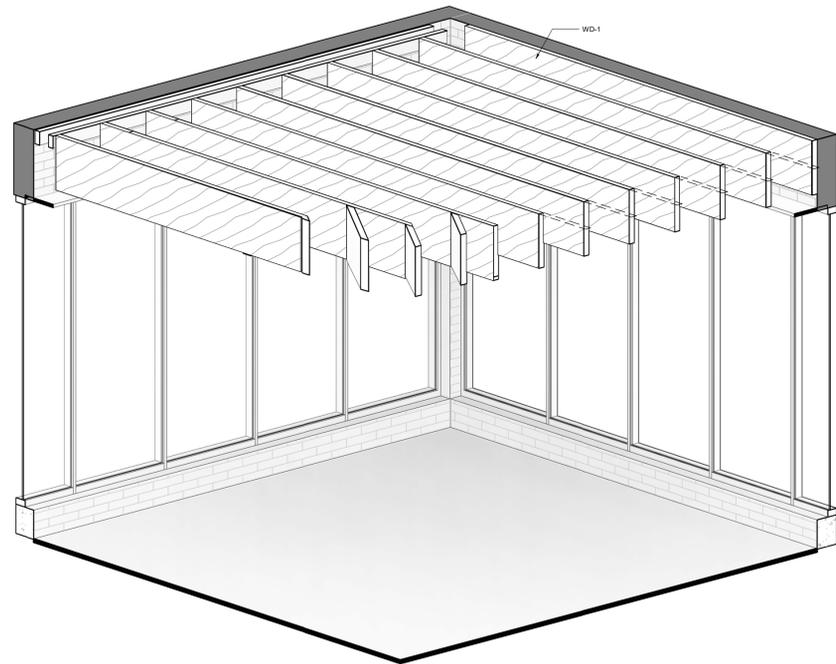
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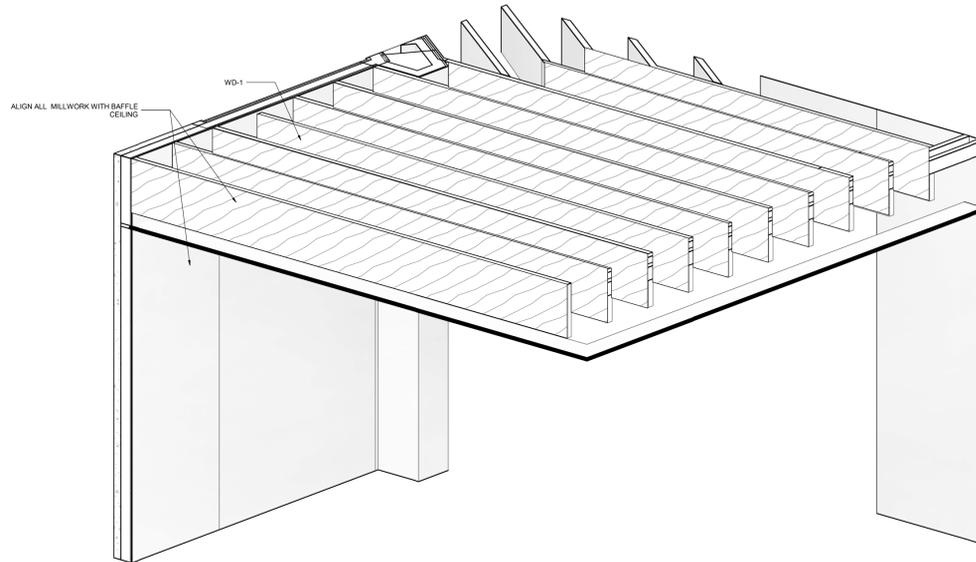
**MILLWORK -  
READING NOOKS**

**A9.06**



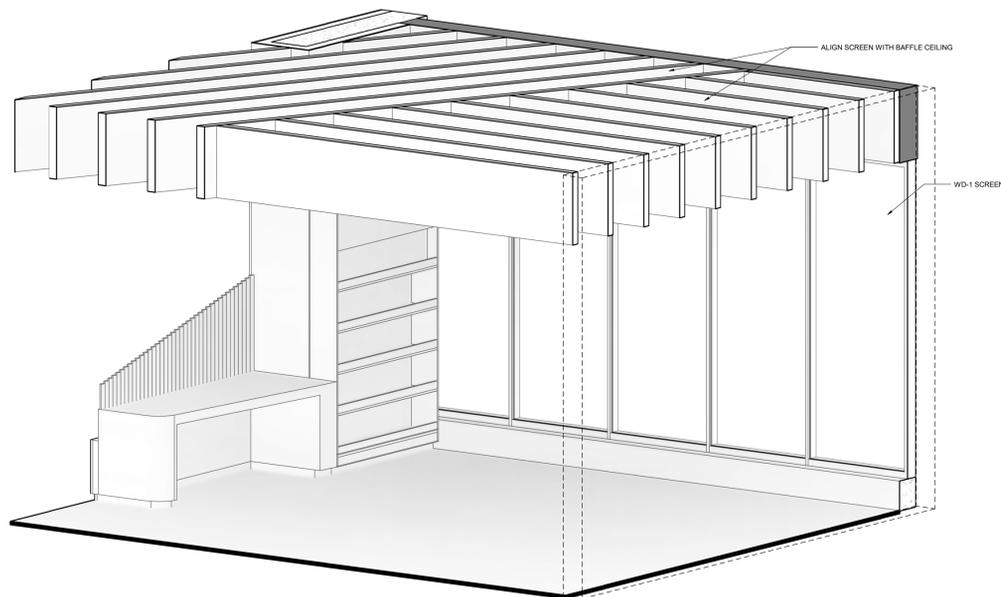
READING NOOK 113 VIEW 2

21  
A9.06



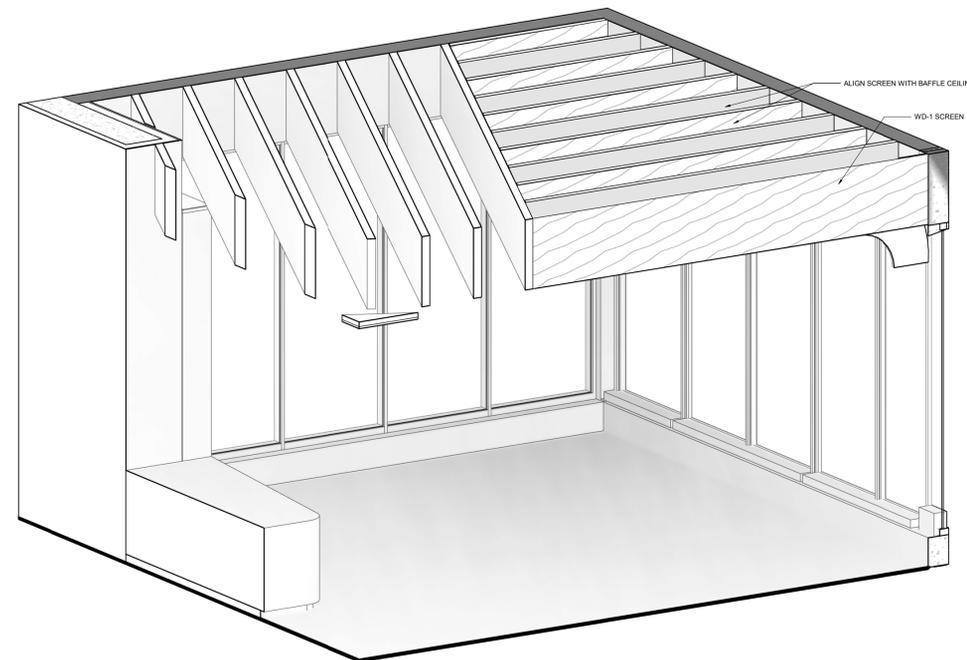
READING NOOK 113 VIEW 1

20  
A9.06



READING NOOK 124 VIEW 2

11  
A9.06



READING NOOK 124 VIEW 1

10  
A9.06

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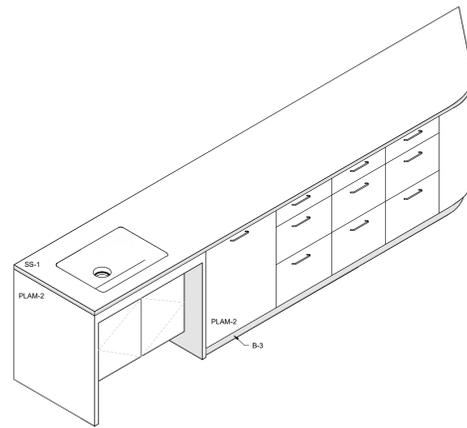
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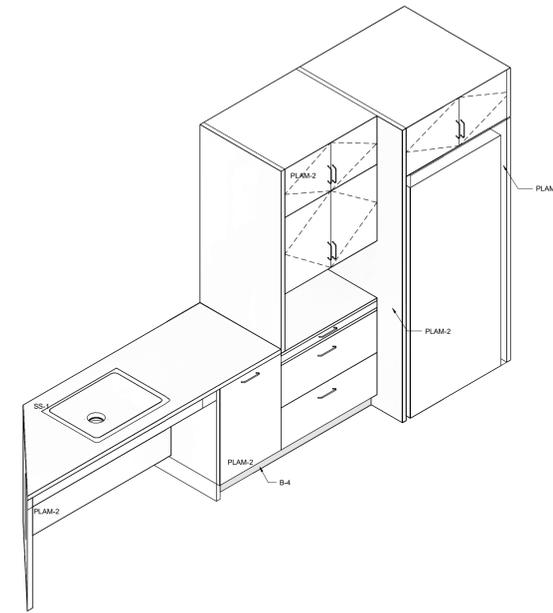
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**MILLWORK -  
READING NOOKS**

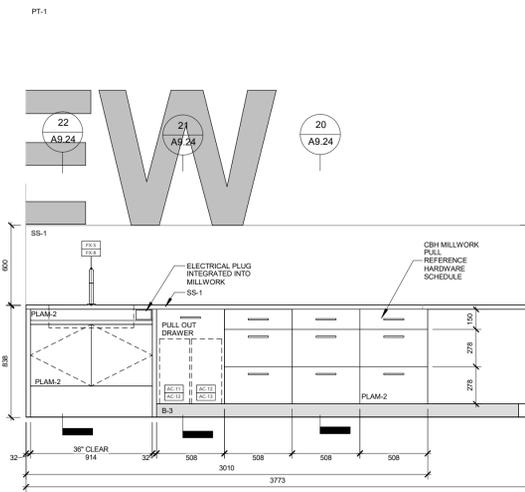
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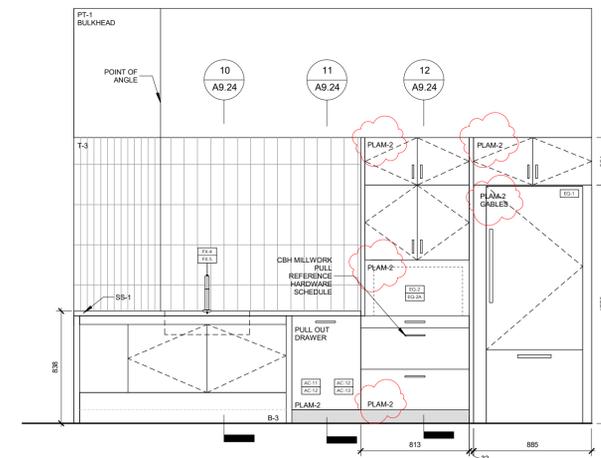
M120 3D 31  
A9.08



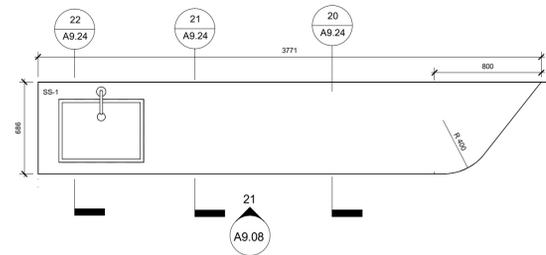
M110 3D 30  
A9.08



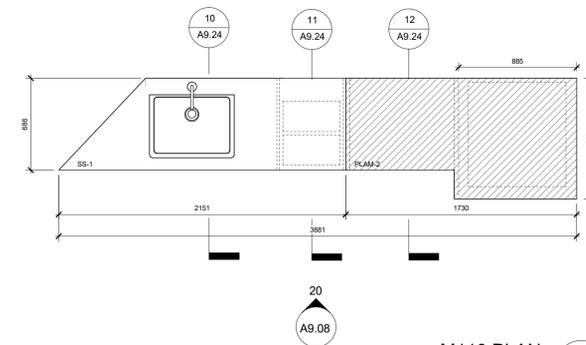
M120 ELEVATION 21  
1 : 25 A9.08



M110 ELEVATION 20  
1 : 25 A9.08



M120 PLAN 11  
1 : 25 A9.08



M110 PLAN 10  
1 : 25 A9.08

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**MILLWORK - KITCHENETTE**

**A9.08**



2

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**MILLWORK - DISPLAY  
SHELVES**

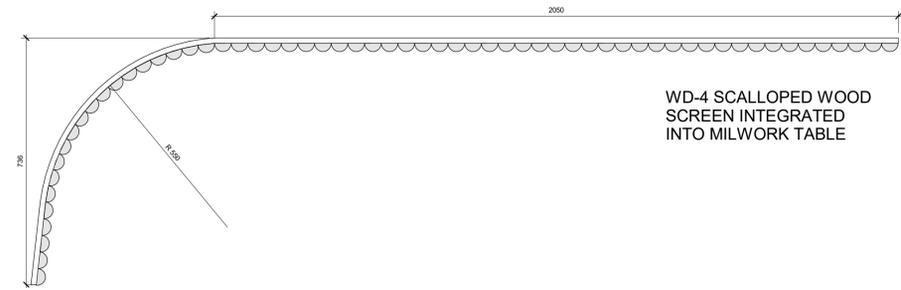
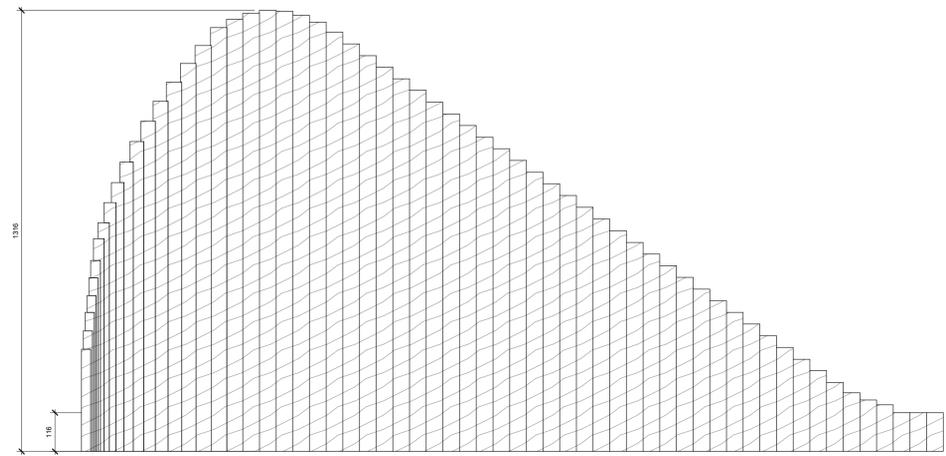
**A9.09**

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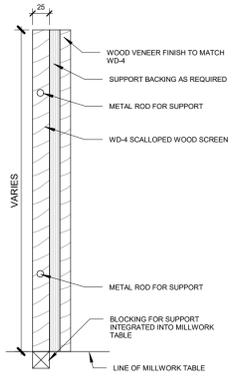
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SCREEN AT BLEACHER STAIR

20  
A9.10

1 : 10



SCALLOPED WOOD SECTION 2

21  
A9.10

1 : 5



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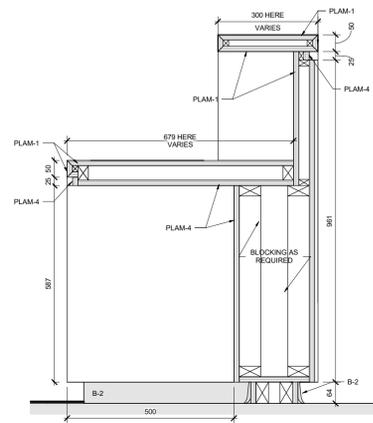
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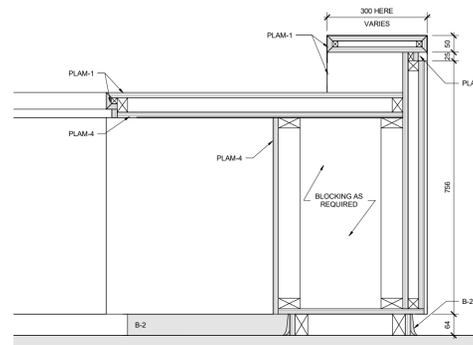
As indicated @24x36

**MILLWORK - SCREENS**

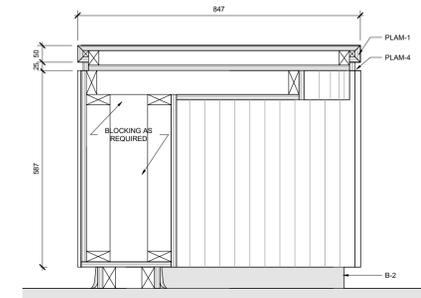
**A9.10**



M103-A SECTION C  
1 : 10 (22) A9.20



M103-A SECTION B  
1 : 10 (21) A9.20



M103-A SECTION A  
1 : 10 (20) A9.20

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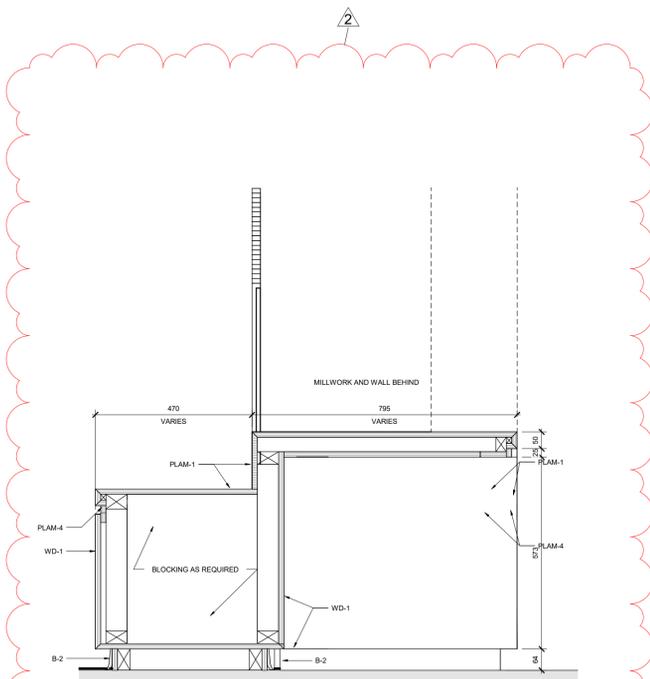
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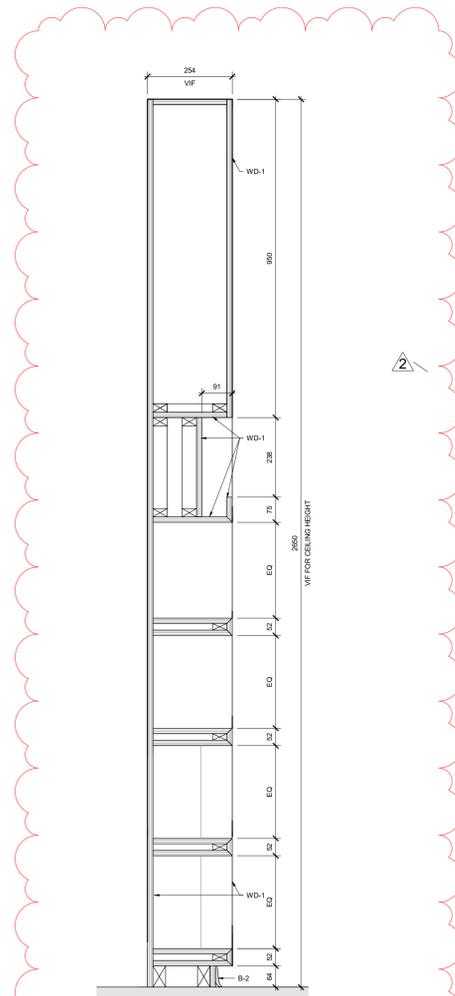
1 : 10 @24x36

**MILLWORK SECTIONS**

**A9.20**



M124-A SECTION B  
1 : 10 (14) A9.20



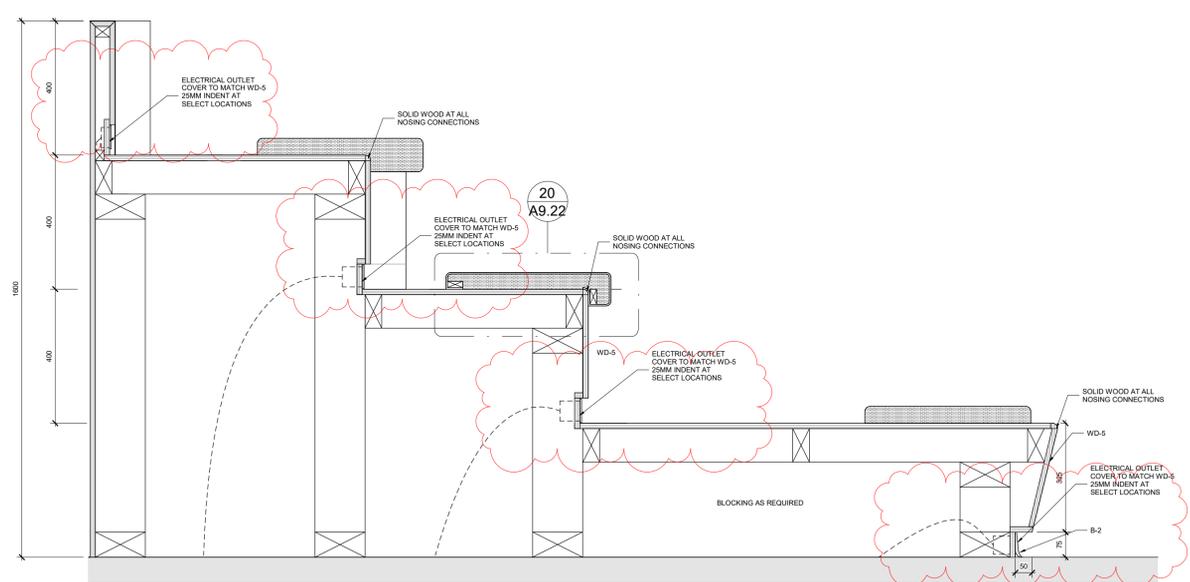
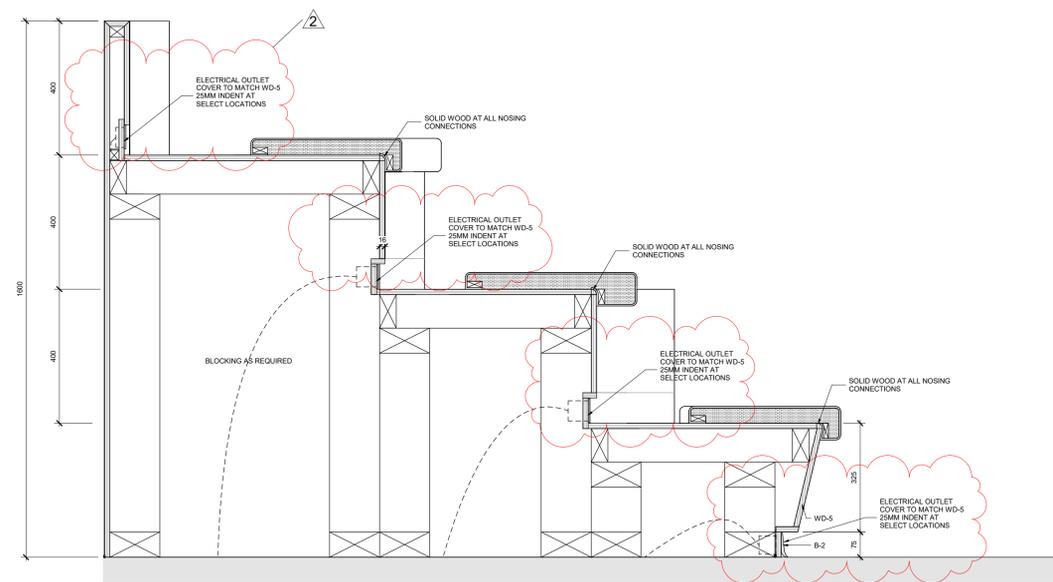
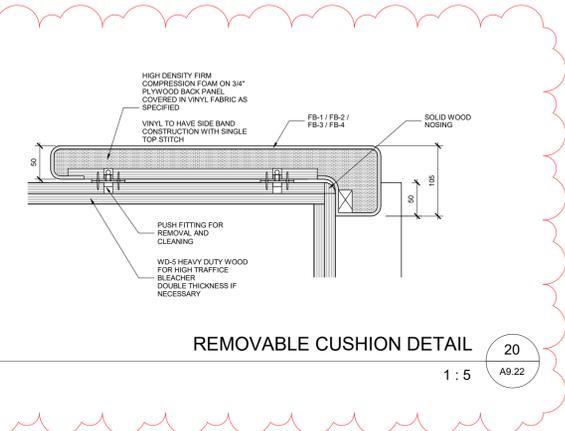
M124-A SECTION A  
1 : 10 (13) A9.20

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**MILLWORK SECTIONS**

**A9.22**

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**MILLWORK SECTIONS**

**A9.23**

## **ADDENDUM 1**

### **00 91 13 01**

*The information listed below is to form part of the Contract Documents. All associated costs are to be included in Tender Price shown on Tender Form. Acknowledgment of this Addendum, by number, to be shown in space provided on Tender Form.*

## **1 ELECTRICAL SPECIFICATIONS**

### **1.1 Section 27 05 13 – Communication Services (Not re-issued)**

- .1 Revise Item 1.3.2 as follows:

*Horizontal Cabling: Follow Cat 6A standards, including faceplates, Keystone jacks, patch cords, patch panels, etc.*

- .2 Revise Item 1.17.12 as follows:

*Patch Cord - A length of copper or fibre cable with connectors on each end to be used to join telecommunications circuits/links at the cross-connects. Copper cables will usually, but not always, be of Cat 6A grade.*

### **1.2 Section 27 05 29 – Hangers and Supports for Communication Systems (Not re-issued)**

- .1 Revise Item 3.1.4 as follows:

*All cable supports shall be rated for a minimum of Cat 6A for the structured cabling infrastructure.*

### **1.3 Section 27 15 01 19 – Data Communications Horizontal Cabling (Not re-issued)**

- .1 Revise Item 1.4.1 as follows:

*The complete end-to-end horizontal cabling system shall meet or exceed the requirements for Category 6A cabling as specified by the TIA/EIA-568-C.2 Telecommunication Cabling Standard.*

- .2 Revise Item 2.1.1 as follows:

*Data cabling shall be 4-pair balanced twisted pair Cat 6A UTP, plenum rated (CMP) cables for all cabling projects*

- .3 Revise Item 2.1.2 as follows:

*The horizontal Cat 6A data cable jackets shall be blue in colour.*

### **1.4 Section 27 15 43 – Communication Faceplates and Connectors (Not re-issued)**

- .1 Revise Item 2.2.3 as follows:

*Faceplates are compatible for Cat 6A 8P8C modular connector (Keystone).*

## **2 ELECTRICAL DRAWINGS**

### **2.1 E-001 – Electrical Symbols and Abbreviations (Not re-issued)**

- .1 Revise cable type indicated for wall mounted data and telephone outlets to be “CAT 6A” instead of “CAT6”.

### **2.2 E-201 – Electrical Schematics (Not re-issued)**

- .1 Detail 3/ Single Line Diagram – New Work:
  - .1 Revise rating of breaker feeding RTU-2 in MDP-01 to be 50A.

### **2.3 E-202 – Electrical Panel Schedules (Re-issued)**

- .1 General updates to circuiting.

### **2.4 E-301 – Electrical Level 01 New Work Plan (Re-issued)**

- .1 Demolish power for existing baseboard heaters.

### **2.5 E-311 – Power & Systems Level 01 New Work Plan (Re-issued)**

- .1 General revisions to electrical fixture layout.

### **2.6 E-312 – Electrical Roof Level New Work Plan (Not re-issued)**

- .1 Delete all occupancy sensors and daylight sensors on this level.

### **2.7 E-320 – Electrical Site Plan (Re-issued)**

- .1 General revisions to electrical fixture layout and associated circuiting.

## **3 MECHANICAL DRAWINGS**

### **3.1 M-201 – Mechanical Schedules (Re-issued)**

- .1 Revise Rooftop Unit Schedule.
- .2 Delete WC-3 from Plumbing Fixture Connection Schedule.
- .3 Revise VAV Box Schedule.
- .4 Revise Electric Baseboard Heater Schedule and Notes.
- .5 Revise Air Inlets and Outlets Schedule.
- .6 Revise Fan Schedule.

### **3.2 M-202 – Plumbing Riser Diagrams (Re-issued)**

- .1 Revise tag for water closet in Staff Washroom 111.
- .2 Revise domestic water and sanitary risers in Book Dropoff 107 & Janitor 116.

.3 Add new 3" VTR.

**3.3 M-301 Plumbing Level 01 Demolition Plan (Re-issued)**

.1 Add demolition of existing vent riser.

.2 Revise Drawing Note #1.

**3.4 M-311 Plumbing and Fire Protection Level 01 New Work Plan (Re-Issued)**

.1 Revise WC tag in Staff Washroom 111.

.2 Add Drawing Note #4.

.3 Revise plumbing distribution in Janitor 116.

.4 Add new funnel floor drain in Book Dropoff 107.

.5 Add new 3" VTR.

**3.5 M-401 HVAC Level 01 Demolition Plan (Re-issued)**

.1 Add demolition of existing baseboard heaters.

.2 Add demolition of existing duct drops from the RTUs.

.3 Delete Drawing Note #2.

**3.6 M-411 HVAC Level 01 New Work Plan (Re-issued)**

.1 Add BBH-5 through BBH-9.

.2 Revise airflow rates in Program Room 120 & Stacks 125.

.3 Revise thermostat locations in Stacks 125.

.4 Add new thermostat in Office 105.

.5 Revise HVAC layout in Elec Room 108 & Program Room 120.

.6 Add new duct drops from RTUs.

.7 Add five (5) new transfer ducts.

**3.7 M-412 HVAC Roof Level New Work Plan (Re-issued)**

.1 Revise RTU-1 and RTU-2.

.2 Revise natural gas piping layout.

.3 Revise Drawing Note #2.

**3.8 M-601 Mechanical Controls Diagrams Sheet 1 (Re-issued)**

.1 Add detail 3/601, Exhaust Fan Controls Diagram.

.2 Revise Transfer Fan Points Data.

.3 Revise Exhaust Fan Points Data.

**3.9 M-803 Mechanical Details Sheet 3 (Re-issued)**

.1 Add detail 6/803, Detail – Drain Cooler.

END OF ADDENDUM

**END OF SECTION**

LOCATION: ELEC ROOM 108		REMARKS:		PANEL DESIGNATION:							
SERVICE: 120/208 VOLTS, 3 PHASE, 4 WIRES				<b>RP-A</b>							
MAINS: 225 A		MAIN: 175 A		SHORT NAME: A							
MOUNTING TYPE: SURFACE		M.L.O.: No		<b>(NEW)</b>							
GROUNDING: GROUND BUS: Yes		POLES: 84									
ISOLATED GRD BUS: No											
AIC RATING: 18000											
SERVICE TO:	SIZE	NO.	A	B	C	A	B	C	NO.	SIZE	SERVICE TO:
RECEPTACLES - RM 102	20	1	0.72			0.77			2	20	LIGHTING - NORTH
Q. RECEPTACLES - RM 102	15	3		0.72			0.79		4	20	LIGHTING - WEST
RECEPTACLES - RM 104	15	5			1.2			0.18	6	15	Q3 RECEPTACLE - RM 125
RECEPTACLES - RM 104	15	7	0.6			0.54			8	20	EXTERIOR SIGNAGE
FRIDGE - RM 110	15	9		1					10	15	SPARE
MICROWAVE - RM 110	15	11			1				12	15	SPARE
DISHWASHER - RM 110	15	13	1						14	15	SPARE
RECEPTACLES - RM 110	15	15		0.36					16	15	SPACE
GFI RECEPTACLE - RM 110	20	17			0.18				18	15	SPACE
GFI RECEPTACLE - RM 111	15	19	0.18						20	15	SPACE
Q. RECEPTACLES - RM 106	15	21		0.36					22	15	SPACE
RECEPTACLE - RM 109	15	23			0.18				24	15	SPACE
RECEPTACLES - RM 105	15	25	0.54						26	15	SPACE
FURN. RECEPTACLES - 103	15	27		0.36					28	15	SPACE
RECEPTACLES - RM 103	15	29			0.54				30	15	SPACE
CONV. RECEPTACLES - RM 102, 104,...	20	31	0.72						32	15	SPACE
CONV. RECEPTACLES - RM 122, 123,...	20	33		0.72					34	15	SPACE
RECEPTACLES - RM 113, 114, 119	15	35			0.72				36	15	SPACE
GFI RECEPTACLES - RM 115, 117, 118	15	37	0.54						38	15	SPACE
PRINTER RECEPTACLE - RM108	15	39		0.8					40	15	SPACE
RECEPTACLES - RM 120	15	41			1.08				42	15	SPACE
Q. RECEPTACLES - RM 120	15	43	1.08						44	15	SPACE
Q. RECEPTACLES - RM 120	15	45		1.08					46	15	SPACE
PROJECTOR - RM 120	15	47			0.18				48	15	SPACE
Q3. RECEPTACLE - RM 125	15	49	0.18						50	15	SPACE
FURN. RECEPTACLES - RM 125	15	51		0.9					52	15	SPACE
CONV. RECEPTACLES - RM 116 & 120	20	53			0.72				54	15	SPACE
RECEPTACLES - RM 123	15	55	0.72						56	15	SPACE
Q1. RECEPTACLE - RM 125	20	57		0.18					58	15	SPACE
Q1. RECEPTACLE - RM 125	20	59			0.18				60	15	SPACE
Q2. RECEPTACLE - RM 125	20	61	0.18						62	15	SPACE
Q2. RECEPTACLE - RM 125	20	63		0.18					64	15	SPACE
GFI RECEPTACLES - RM 120	15	65			0.72				66	15	SPACE
RECEPTACLES - RM 124	15	67	0.72						68	15	SPACE
FURN. RECEPTACLES - 125	15	69		1.08					70	15	SPACE
RECEPTACLES - RM 115	15	71			0.18				72	15	SPACE
DOOR OPERATORS	15	73	1.2						74	15	SPACE
GFI RECEPTACLE - ROOF	20	75		0.18					76	15	SPACE
LIGHTING - SOUTH	20	77			1.27				78	15	SPACE
EXTERIOR LIGHTING	20	79	0.41						80	15	SPACE
LIGHTING - EAST	20	81		1.37					82	15	SPACE
LIGHTING - CENTRAL	20	83			1.18				84	15	SPACE
PHASE TOTALS:		KVA PHASE A 10.1		PHASE A 85 A		CONNECTED LOAD (PWR): 29.60 KVA					
		KVA PHASE B 10.02		PHASE B 84 A		DEMAND LOAD: 24.78 KVA					
		KVA PHASE C 9.49		PHASE C 79 A		DEMAND LOAD X 1.25 SPARE 30.98 KVA					
Notes:											

LOCATION: ELEC ROOM 108		REMARKS:		PANEL DESIGNATION:							
SERVICE: 120/208 VOLTS, 3 PHASE, 4 WIRES				<b>RP-B</b>							
MAINS: 400 A		MAIN: 300A		SHORT NAME: B							
MOUNTING TYPE: SURFACE		M.L.O.: No		<b>(NEW)</b>							
GROUNDING: GROUND BUS: Yes		POLES: 84									
ISOLATED GRD BUS: No											
AIC RATING: 18000											
SERVICE TO:	SIZE	NO.	A	B	C	A	B	C	NO.	SIZE	SERVICE TO:
BBH-2 - RM 120	15	1	0.5			0.67			2	15	CUH-2 - RM 112
		3		0.5			0.67		4	15	
		5			0.67			0.67	6	15	
UH-4 - RM 116	15	7	0.67			0.67			8	15	CUH-3 - RM 108
		9		0.67			0.67		10	15	
BBH-1 - RM 115	15	11			0.5				12	15	
HAND DRYER - RM 117,118	20	13	0.5	1.4		1.33			14	15	EWH-1 - RM 116
VAV-2 - RM 114	20	17			1.5				18	20	
VAV-4 - RM 122	20	19	1.5			1.67			20	20	CUH-1 - RM 101
VAV-3 - RM 122	20	23		1.25	1.25			1.67	24	20	
VAV-1 - RM 105	20	25	1.5			0.5			26	15	FACP - RM 101
		27		1.5			0.18		28	15	TF-1 & TF-2
VAV-9 - RM 104	15	29			0.75			0.53	30	15	SK-1,WC-1,WC-2
		31	0.75			0.2			32	15	LAV-1, LAV-2 & LAV-3
VAV-10 - RM 104	15	33		0.5	0.5		0.31		34	15	EF-2 - RM 120
		37	1			0.08			38	20	EF-1 - ROOF
VAV-14 - RM 109	15	39		1			0.7		40	20	HAND DRYER - RM 115
		41			0.75			0.17	42	15	P1 & TF-1
VAV-7 - RM 125	45	43	0.75			0.72			44	15	DEF
		45		3.5			0.75		46	15	BBH-5 - RM 124, BBH-6 - RM 125
VAV-12 - RM 125	40	47		3	3.5			0.75	48	15	BBH-8 - RM 125
		49					0.75		50	15	BBH-7 - RM 125, BBH-9 - RM 113
VAV-8 - RM 123	45	51			3.5			1	52	15	
		53	3.5			1			54	15	SPARE
BBH-4 - RM 125	15	55			1		0		56	15	SPARE
		57			1		0		58	15	SPARE
BBH-3 - RM 125	15	59			1		0		60	15	SPARE
		61	1			0			62	15	SPARE
VAV-5 - RM 122	15	63		1					64	15	SPACE
		65			1				66	15	SPACE
VAV-13 - RM 122	15	67		1					68	15	SPACE
		69			1				70	15	SPACE
VAV-6 - RM 120	25	71		1.75					72	15	SPACE
		73	1.75						74	15	SPACE
VAV-11 - RM 124	25	75		1.75		1.75			76	15	SPACE
		77			1.75				78	15	SPACE
NOT ONCEED SCHEDULES - RM 113, 120, 124	15	79	1.75			0			80	15	SPACE
BF-1 - RM 120 & BF-2 - RM 122	15	81			0.3		0		82	15	SPACE
		83			0.36		0		84	15	SPACE
PHASE TOTALS:		KVA PHASE A 26.75		PHASE A 223 A		CONNECTED LOAD (PWR): 77.26 KVA					
		KVA PHASE B 25.39		PHASE B 212 A		DEMAND LOAD: 77.26 KVA					
		KVA PHASE C 25.12		PHASE C 209 A		DEMAND LOAD X 1.25 SPARE 96.58 KVA					
Notes:											

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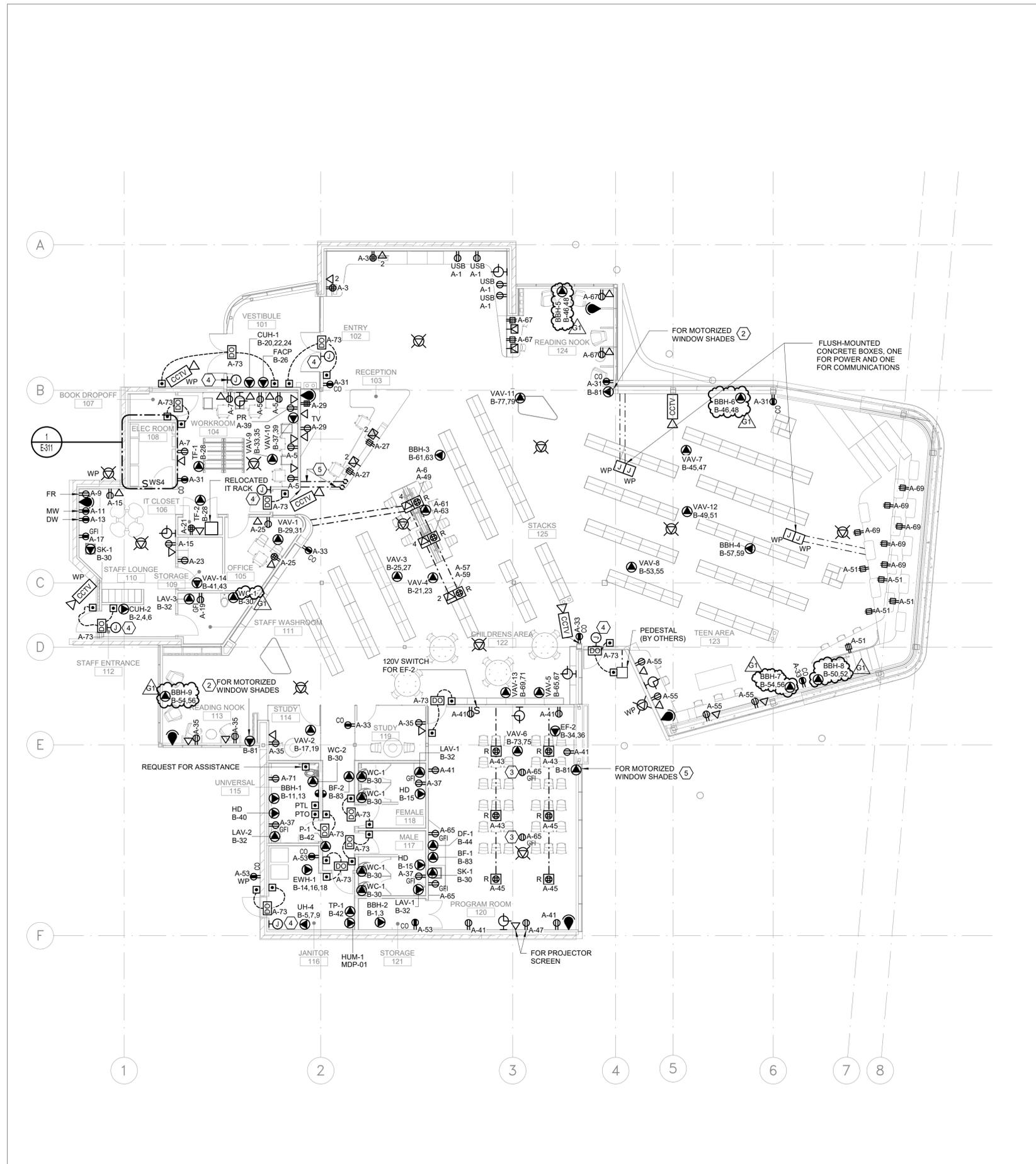
G1	ISSUED FOR ADDENDUM 1	2025-05-08
G	ISSUED FOR TENDER	2025-04-01
F	ISSUED FOR COST ESTIMATE	2025-03-14
D	ISSUED FOR 65% CD REVIEW	2023-11-08
C	ISSUED FOR 50% CD REVIEW	2023-06-16
A	ISSUED FOR 100% DD	2023-02-09
00	ISSUE	DATE



@24x36

**ELECTRICAL  
PANEL SCHEDULES**





3 PLAN - GROUND FLOOR  
E-311/ 1:100

1.0 0.0 2.0 4.0M

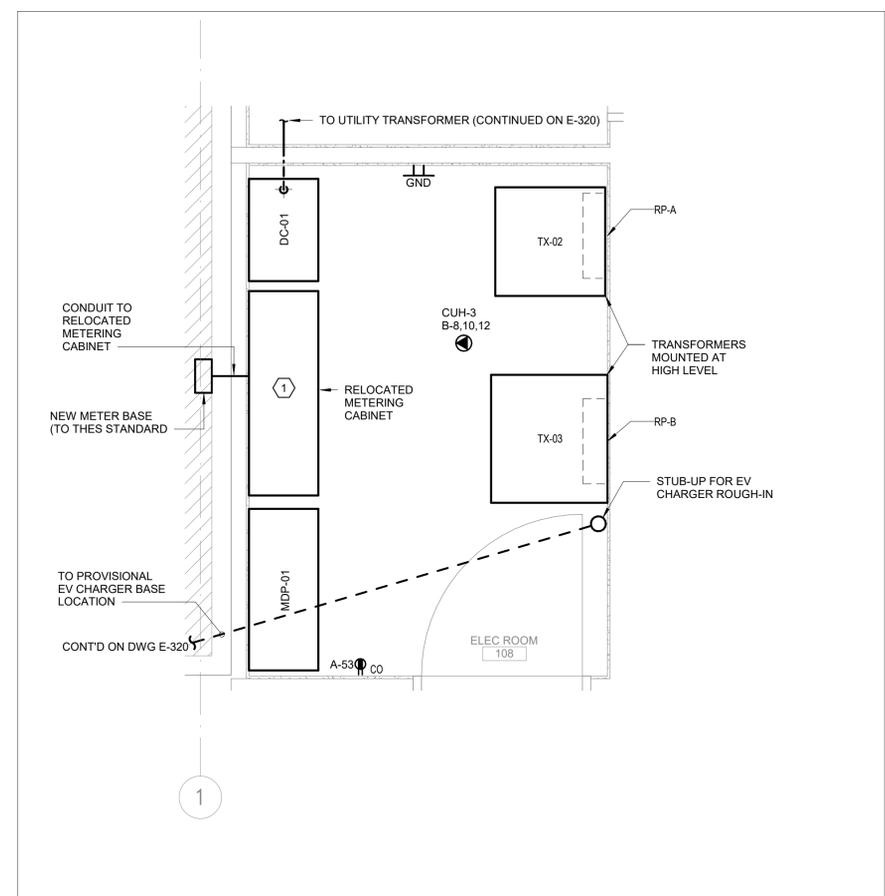
**GENERAL NOTES:**

- ELECTRICAL CONTRACTOR SHALL PROVIDE BACK BOXES FOR SECURITY DEVICES AS REQUIRED BY THE OWNER'S SECURITY SYSTEM CONTRACTOR.
- FOR POWER AND DATA DEVICES MARKED AS EX, REMOVE EXISTING DEVICES AND WIRING, BUT LEAVE BACK BOXES AND CONDUIT TO CEILING SPACE OR NEAREST JUNCTION BOX AS IS. CONTRACTOR TO PROVIDE NEW DEVICES, CONDUIT TO ELECTRICAL ROOM (OR IT ROOM), AND WIRING; CIRCUITING FOR DEVICES AS INDICATED IN THE NEW POWER FLOOR PLANS.
- ALL SECURITY DEVICES SHOWN ARE PROVIDED BY SECURITY VENDOR. REFER TO SECURITY DRAWINGS. DIVISION 26 SHALL PROVIDE 4" JUNCTION BOX AND 27mm HOMERUN CONDUIT TO ACCESS CONTROL AND INTRUSION DETECTION SYSTEM, AS REQUIRED AND SHOWN IN SECURITY SYSTEM DESIGN. COORDINATE WITH SECURITY VENDOR.
- SECURITY EQUIPMENT HEAD END IS LOCATED IN IT CLOSET 106.
- PROVIDE CONDUITS CW PULL STRINGS FOR RECESSED FLOOR BOXES TO WALLS AS INDICATED. RUN THESE CONDUITS THROUGH FLOOR TRENCH. COORDINATE TRENCHING REQUIREMENTS WITH ARCHITECTURAL.
- PROVIDE A SCOTIABELL 12" FLUSH-MOUNTED CLOCK AT EACH LOCATION INDICATED CW A DOUBLE-GANG JUNCTION BOX. PROVIDE A CAT6 CABLE IN A 21mm CONDUIT FROM EACH CLOCK BACK TO IT CLOSET 106.

**DRAWING NOTES:**

- COORDINATE WITH TORONTO HYDRO INSPECTOR. METERING CABINET TO BE INSTALLED TO TORONTO HYDRO STANDARDS.
- DLM MOTORIZED WINDOW SHADES CW MASTER OVERRIDE SWITCH AND DLM SHADE CONTROLLER (OR SIMILAR). REFER TO ARCHITECTURAL PLANS. CONTRACTOR TO PROVIDE POWER TO MOTORIZED WINDOW SHADES, AS INDICATED. PROVIDE ROUGH-IN CW PULL STRING FOR MASTER OVERRIDE SWITCH ON THE WALL OF RECEPTION 103, REFER TO ARCHITECTURAL PLANS FOR EXACT MOUNTING HEIGHT AND LOCATIONS. TIE-IN DLM SHADE CONTROLLER INTO THE NEW LIGHTING ROOM CONTROLLER SERVING LIGHTING ZONE 'a'. REFER TO DAYLIGHT HARVESTING SCHEMATIC DIAGRAM.
- REELCRAFT L 4035 163 3 - 16/3 35 FT. PREMIUM DUTY SINGLE RECEPTACLE POWER CORD REEL OR APPROVED EQUIVALENT WITH 5 METRE CORD LENGTH.
- PROVIDE 6" JUNCTION BOX FOR SECURITY HARDWARE ON SECURE SIDE OF DOOR COMPLETE WITH MINIMUM 27mm CONDUIT TO ACCESS CONTROL PANEL AND 21mm CONDUIT TO THE LOCAL CARD READER. COORDINATE WITH OWNER'S SECURITY VENDOR.
- CONTRACTOR TO TRENCH AND PROVIDE ONE (1) 35mmC (POWER) AND ONE (1) 35mmC (COMMS) CONDUIT AS SHOWN. CONDUIT TO STUB UP INTO MILLWORK. COORDINATE STUB UP WITH ARCHITECTURAL PLANS.

2 DRAWING NOTES  
E-311



1 BLOW-UP - ELECTRICAL ROOM 108  
E-311/ 1:20

0.2 0.0 0.4 0.8M

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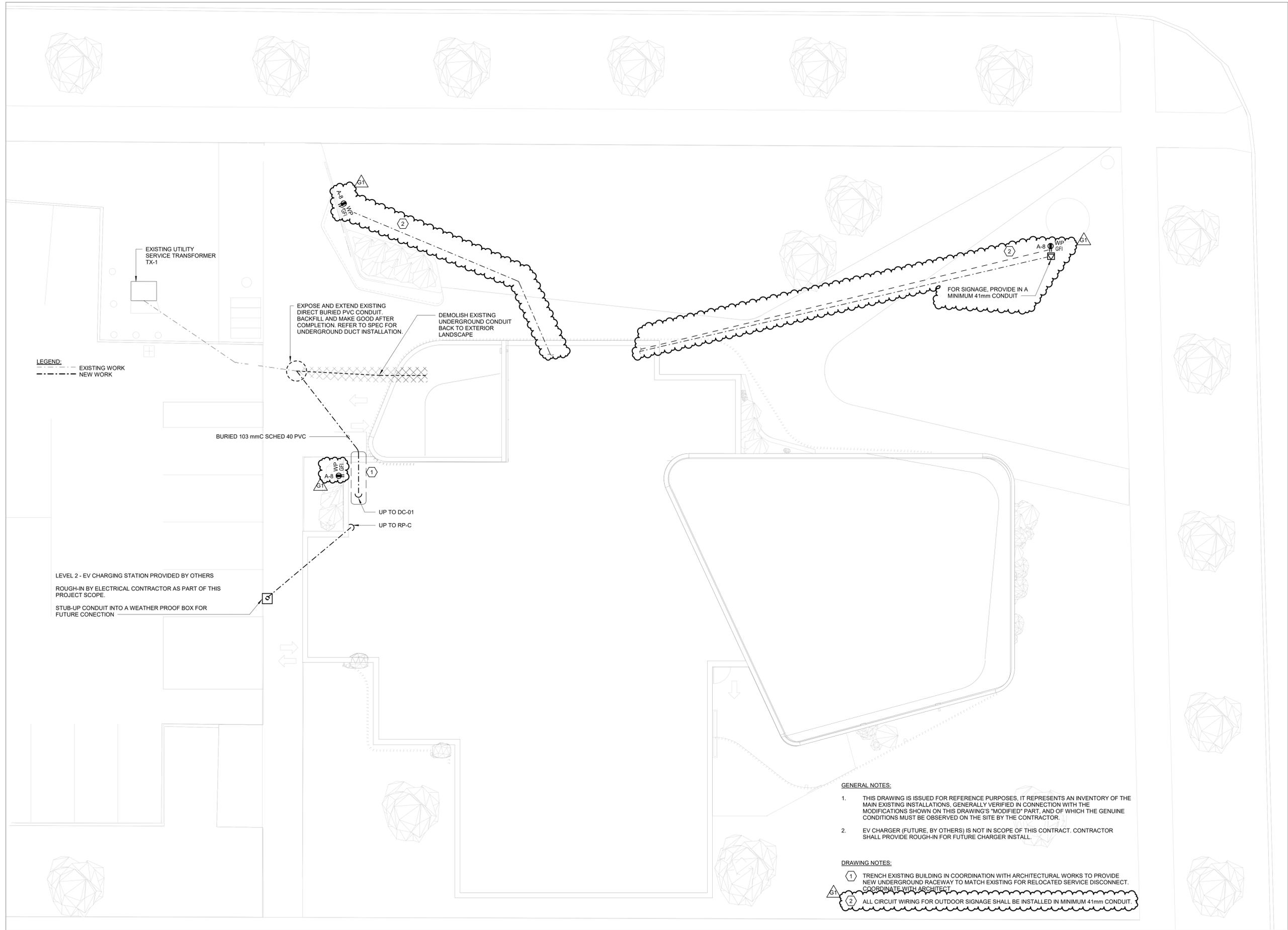
NO	ISSUE	DATE
G1	ISSUED FOR ADDENDUM 1	2025-05-08
G	ISSUED FOR TENDER	2025-04-01
F	ISSUED FOR COST ESTIMATE	2025-03-14
E	ISSUED FOR PERMIT	2024-09-27
D	ISSUED FOR 65% CD REVIEW	2023-11-08
C	ISSUED FOR 50% CD REVIEW	2023-06-16
A	ISSUED FOR 100% DD	2023-02-09
00	ISSUE	DATE



As indicated @24x36

**POWER & SYSTEMS**  
LEVEL 01  
NEW WORK PLAN

**E-311**



**LEGEND:**  
- - - - - EXISTING WORK  
————— NEW WORK

EXISTING UTILITY SERVICE TRANSFORMER TX-1

EXPOSE AND EXTEND EXISTING DIRECT BURIED PVC CONDUIT. BACKFILL AND MAKE GOOD AFTER COMPLETION. REFER TO SPEC FOR UNDERGROUND DUCT INSTALLATION.

DEMOLISH EXISTING UNDERGROUND CONDUIT BACK TO EXTERIOR LANDSCAPE

BURIED 103 mmC SCHED 40 PVC

UP TO DC-01  
UP TO RP-C

LEVEL 2 - EV CHARGING STATION PROVIDED BY OTHERS  
ROUGH-IN BY ELECTRICAL CONTRACTOR AS PART OF THIS PROJECT SCOPE.  
STUB-UP CONDUIT INTO A WEATHER PROOF BOX FOR FUTURE CONNECTION

FOR SIGNAGE, PROVIDE IN A MINIMUM 41mm CONDUIT

**GENERAL NOTES:**

1. THIS DRAWING IS ISSUED FOR REFERENCE PURPOSES. IT REPRESENTS AN INVENTORY OF THE MAIN EXISTING INSTALLATIONS. GENERALLY VERIFIED IN CONNECTION WITH THE MODIFICATIONS SHOWN ON THIS DRAWING'S "MODIFIED" PART, AND OF WHICH THE GENUINE CONDITIONS MUST BE OBSERVED ON THE SITE BY THE CONTRACTOR.
2. EV CHARGER (FUTURE, BY OTHERS) IS NOT IN SCOPE OF THIS CONTRACT. CONTRACTOR SHALL PROVIDE ROUGH-IN FOR FUTURE CHARGER INSTALL.

**DRAWING NOTES:**

- ① TRENCH EXISTING BUILDING IN COORDINATION WITH ARCHITECTURAL WORKS TO PROVIDE NEW UNDERGROUND RACEWAY TO MATCH EXISTING FOR RELOCATED SERVICE DISCONNECT. COORDINATE WITH ARCHITECT
- ② ALL CIRCUIT WIRING FOR OUTDOOR SIGNAGE SHALL BE INSTALLED IN MINIMUM 41mm CONDUIT.

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G1	ISSUED FOR ADDENDUM 1	2025-05-08
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F	ISSUED FOR COST ESTIMATE	2025-03-14
E	ISSUED FOR PERMIT	2024-09-27
D	ISSUED FOR 65% CD REVIEW	2023-11-08
C	ISSUED FOR 50% CD REVIEW	2023-06-18
B	ISSUED FOR SITE PLAN APPROVAL	2023-04-24
00	ISSUE	DATE



1 : 100 @24x36

**ELECTRICAL**  
**SITE PLAN**



**ROOF TOP UNIT SCHEDULE**

TAG	LOCATION	AREA SERVED	SUPPLY FAN DATA					COOLING COIL DATA					HEATING COIL DATA					ELECTRICAL DATA			DIMENSIONS (IN)			WEIGHT (LBS)	MANUFACTURER / MODEL	REMARKS		
			TOTAL CFM	TOTAL O.A. CFM	ESP / TSP (IN. W.C.)	VFD YES OR NO	RPM	MOTOR HP	ENT. DB (F)	ENT. WB (F)	LVG. DB (F)	LVG. WB (F)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	NO OF COMP.	INPUT CAPACITY (MBH)	OUTPUT CAPACITY (MBH)	ENT. DB (F)	LVG. DB (F)	REFRIGERANT	V/PHZ	MCA	MOP				HEIGHT	WIDTH
RTU-1	ROOF	LEVEL 01	3100	600	1.25 / 1.5	Y	1308	3	77.85	65.53	53.38	107.4	77.82	2	120	97.2	55.94	84.41	R-454B	575/60/3	21	25	50.9	53.3	88.1	1118	TRANE / YSK102AWSBL	SEE NOTES
RTU-2	ROOF	LEVEL 01	10200	2050	1.30 / 1.98	Y	1569	3 + 3	78	65.66	57.01	243	182	2	400	324	55.2	82.26	R-454B	575/60/3	40	50	59	87	123	2369	TRANE / YHK240AWSBH	SEE NOTES

- NOTES:**
- PROVIDE WITH A SINGLE POINT OF POWER CONNECTION.
  - UNIT SHALL BE MOUNTED ON MANUFACTURER PROVIDED EQUIPMENT CURBS.
  - COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL TRADE.
  - CONTRACTOR TO PROVIDE CONDENSATE DRAIN WITH ASSOCIATED FITTINGS.
  - MOTORS SHALL BE PREMIUM EFFICIENCY, INVERTER DUTY RATED FOR OPERATION WITH VFD, COMPLETE WITH SHAFT GROUNDING RINGS.
  - EACH UNIT SHALL BE CAPABLE TO PROVIDE 0% TO 100% AIR SIDE ECONOMIZER AND PROVIDED WITH RELATED MOTORIZED OUTSIDE AIR, RETURN AIR, SPILL AIR DAMPERS AND ENTHALPY SENSORS.
  - PROVIDE COMPRESSOR WITH ACOUSTIC BLANKET.
  - PROVIDE 2" MERV-13 FILTERS.
  - PROVIDE FIELD STARTUP SERVICES BY RTU MANUFACTURER'S FACTORY TRAINED TECHNICIAN.
  - PROVIDE MINIMUM 5 YEAR EXTENDED WARRANTY FOR COMPRESSORS.

**PLUMBING FIXTURE CONNECTION SCHEDULE**

TAG	DESCRIPTION	SANITARY / WASTE	VENT	CW	HW	REMARKS
DF-1	BOTTLE FILLER	2"	2"	1/2"	-	SEE RISER DIAGRAM FOR PIPING SCHEMATIC
FD-1	FLOOR DRAIN	3"	2"	-	-	PROVIDE CW CONNECTION AND ROUTE TO ELECTRONIC TRAP PRIMER.
FFD-1	FUNNEL FLOOR DRAIN	3"	2"	-	-	PROVIDE CW CONNECTION AND ROUTE TO ELECTRONIC TRAP PRIMER.
LAV-1	LAVATORY	2"	2"	1/2"	1/2"	PROVIDE AND INSTALL THERMOSTATIC VALVE BELOW COUNTER AND SET TO 110°F. SEE RISER DIAGRAM FOR PIPING SCHEMATIC.
LAV-2	LAVATORY	2"	2"	1/2"	1/2"	PROVIDE AND INSTALL THERMOSTATIC VALVE BELOW COUNTER AND SET TO 110°F. SEE RISER DIAGRAM FOR PIPING SCHEMATIC.
LAV-3	LAVATORY	2"	2"	1/2"	1/2"	PROVIDE AND INSTALL THERMOSTATIC VALVE BELOW COUNTER AND SET TO 110°F. SEE RISER DIAGRAM FOR PIPING SCHEMATIC.
MS-1	MOP SINK	3"	2"	1/2"	1/2"	SEE RISER DIAGRAM FOR PIPING SCHEMATIC
NFRH-1	NON-FREEZE ROOF HYDRANT	1/2"	-	3/4"	-	SEE RISER DIAGRAM FOR PIPING SCHEMATIC
NFWH-1	NON-FREEZE WALL HYDRANT	3"	-	3/4"	-	SEE RISER DIAGRAM FOR PIPING SCHEMATIC
RD-1	ROOF DRAIN	3"	-	-	-	SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION
SK-1	SINK	2"	2"	1/2"	1/2"	PROVIDE AND INSTALL THERMOSTATIC VALVE BELOW COUNTER AND SET TO 110°F. SEE RISER DIAGRAM FOR PIPING SCHEMATIC.
SK-2	SINK	2"	2"	1/2"	1/2"	PROVIDE AND INSTALL THERMOSTATIC VALVE BELOW COUNTER AND SET TO 110°F. SEE RISER DIAGRAM FOR PIPING SCHEMATIC.
TP-1	TRAP PRIMER	-	-	1/2"	-	SEE RISER DIAGRAM FOR PIPING SCHEMATIC
WC-1	WATER CLOSET	3"	2"	1-1/4"	-	SEE RISER DIAGRAM FOR PIPING SCHEMATIC
WC-2	WATER CLOSET	3"	2"	1-1/4"	-	SEE RISER DIAGRAM FOR PIPING SCHEMATIC

- NOTES:**
- UNLESS OTHERWISE NOTED, SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.

**AIR INLETS AND OUTLETS SCHEDULE**

TAG	SERVICE	MAX AIRFLOW (CFM)	FACE SIZE (IN)	NECK SIZE (IN)	SLOT SIZE (IN)	NO. OF SLOTS	MODEL NUMBER	BORDER TYPE	NOISE CRITERIA AT MAX CFM (NC)	REMARKS
CD-A	SUPPLY DIFFUSER	0-250	24 x 24	8	N/A	N/A	PRICE SPD	LAY IN	20	SEE NOTES
CR-A	RETURN GRILLE	N/A	24x12	N/A	N/A	N/A	PRICE 530	LAY IN	20	SEE NOTES
EG-A	EXHAUST GRILLE	0-100	12x12	N/A	N/A	N/A	PRICE 530	LAY IN	20	SEE NOTES
EG-B	EXHAUST GRILLE	101-625	24X12	N/A	N/A	N/A	PRICE 530	LAY IN	<15	SEE NOTES
LD-A	LINEAR SUPPLY DIFFUSER	0-200	48	7	1	2	PRICE SDS100 C/W SDB	TYP 8	22	SEE NOTES
LD-B	LINEAR SUPPLY DIFFUSER	201-320	60	8	1	2	PRICE SDS100 C/W SDB	TYP 8	25	SEE NOTES
LR-A	LINEAR RETURN GRILLE	0-200	48	N/A	1	1	PRICE SDR100	TYP 8	25	SEE NOTES
RG-A	RETURN GRILLE	0-1435	24X12	N/A	N/A	N/A	PRICE 530	-	20	SEE NOTES
SG-A	SUPPLY GRILLE	0-150	6X6	N/A	N/A	N/A	PRICE 540	-	-	SEE NOTES
SG-B	SUPPLY GRILLE	51-300	6X6	N/A	N/A	N/A	PRICE ND	-	21	SEE NOTES
TG-A	TRANSFER GRILLE	0-75	6x6	N/A	N/A	N/A	PRICE 530	-	-	SEE NOTES

- NOTES:**
- CEILING BORDER/FRAME TYPE SHALL BE COORDINATED WITH LATEST ARCHITECTURAL REFLECTED CEILING PLAN TO INSURE PROPER BORDER COMPATIBILITY.
  - PROVIDE ALL REQUIRED HARDWARE FOR DIFFUSER INSTALLATION IN RESPECTIVE CEILING TYPES.
  - PROVIDE EQUALIZING GRID FOR ALL DIFFUSERS.
  - CEILING DIFFUSER COLOUR/FINISH TO BE WHITE, COORDINATE WITH ARCHITECT.
  - LINEAR GRILLE & DIFFUSER COLOUR/FINISH TO BE BLACK COORDINATE WITH ARCHITECT.
  - VOLUME DAMPERS 3 FEET MIN. FROM GRILLES, DIFFUSERS, AND LINEAR DIFFUSERS.
  - PROVIDE CORD OPERATED VOLUME DAMPER FOR ALL DAMPERS LOCATED IN GYPSUM BOARD, LUMINAIRE, WOODSLATS AND ALL INACCESSIBLE CEILINGS. PROVIDE DAMPER ADJUSTMENT THROUGH FACE OF AIR OUTLET PROVIDE ALL HARDWARE AND EXTENSIONS.
  - ADJUST DIRECTION OF AIRFLOW FOR ALL LINEAR DIFFUSERS.
  - FOR DUCTED EXHAUST RETURN REGISTERS, PROVIDE MIN. 4" DEEP PLENUM, TRANSITION TO REGISTER COLLAR/NECK OPENING SIZES INDICATED FOR DUCT CONNECTIONS.

**ELECTRIC UNIT HEATER SCHEDULE**

TAG	AREA SERVED	CAPACITY (KW)	ELECTRICAL VOLTS/PHASE	MANUFACTURER	MODEL	REMARKS
CUH-1	VESTIBULE 101	5	208/3	OUELLET	OCA05038	SEE NOTES
CUH-2	STAFF ENTRANCE 115	2	208/3	OUELLET	OCA02038	SEE NOTES
CUH-3	JANITOR 116	2	208/3	OUELLET	OCA02038	SEE NOTES
UH-4	ELECTRICAL ROOM	2	208/3	OUELLET	ODSR02038	SEE NOTES

- NOTES:**
- CONTRACTOR SHALL BE RESPONSIBLE TO INSTALL AND SUPPORT UNIT HEATER AS PER MANUFACTURER'S RECOMMENDATIONS.
  - CONTRACTOR SHALL COORDINATE WITH ELECTRICAL TRADE TO POWER AND WIRE UNIT AS REQUIRED.
  - PROVIDE MANUFACTURER'S INTEGRAL UNIT MOUNTED THERMOSTAT.
  - COORDINATE FINAL LOCATION AND FINISH WITH ARCHITECT.

**ELECTRIC BASEBOARD HEATER SCHEDULE**

TAG	AREA SERVED	CAPACITY (KW)	ELECTRICAL VOLTS/PHASE	ENCLOSURE DATA LENGTH	WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS
BBH-1	UNIVERSAL 115	1	208/1	47 1/2"	9	OUELLET	OFM1008	SEE NOTES
BBH-2	STORAGE 121	1	208/1	47 1/2"	9	OUELLET	OFM1008	SEE NOTES
BBH-3	CLERESTORY 2	2	208/1	84"	15	OUELLET	OFM2008	SEE NOTES
BBH-4	CLERESTORY 2	2	208/1	84"	15	OUELLET	OFM2008	SEE NOTES
BBH-5	READING NOOK 124	0.5	208/1	27"	6	OUELLET	OFM0508	SEE NOTES
BBH-6	STACKS 125	1	208/1	47 1/2"	9	OUELLET	OFM1008	SEE NOTES
BBH-7	STACKS 125	1	208/1	47 1/2"	9	OUELLET	OFM1008	SEE NOTES
BBH-8	STACKS 125	1.5	208/1	65 1/2"	12	OUELLET	OFM1508	SEE NOTES
BBH-9	READING NOOK 113	1	208/1	47 1/2"	9	OUELLET	OFM1008	SEE NOTES

- NOTES:**
- BBH-1, 2, 3 AND 4 TO BE PROVIDED WITH BUILT-IN THERMOSTATS.
  - COORDINATE FINAL LOCATION AND FINISH WITH ARCHITECT.
  - COORDINATE FINAL LOCATION AND FINISH WITH ARCHITECT.

**VAV BOX SCHEDULE**

TAG	AIRFLOW RANGE		MAX HEATING AIRFLOW (CFM)	DIMENSIONS			INLET DUCT SIZE (IN)	ELECTRIC REHEAT DATA			MAKE/MODEL	REMARKS	
	MIN (CFM)	MAX (CFM)		LENGTH	WIDTH	HEIGHT		VOLT/PH	KW	EAT (F)			LAT (F)
VAV-1	100	325	325	75 3/16"	12"	8"	6	208/1	1.5	70	84.6	PRICE SDV	SEE NOTES
VAV-2	240	800	800	75 3/16"	12"	10"	8	208/1	3.0	70	81.8	PRICE SDV	SEE NOTES
VAV-3	240	800	800	75 3/16"	12"	10"	8	208/1	3.0	70	81.8	PRICE SDV	SEE NOTES
VAV-4	210	700	700	75 3/16"	12"	10"	8	208/1	2.5	70	81.3	PRICE SDV	SEE NOTES
VAV-5	180	600	600	75 3/16"	12"	10"	8	208/1	2.0	70	80.5	PRICE SDV	SEE NOTES
VAV-6	375	1250	1250	75 3/16"	14"	12 1/2"	10	208/1	3.5	70	78.8	PRICE SDV	SEE NOTES
VAV-7	520	1725	1725	75 3/16"	24"	18"	14	208/1	7.0	70	82.5	PRICE SDV	SEE NOTES
VAV-8	540	1800	1800	75 3/16"	24"	18"	14	208/1	7.0	70	82.0	PRICE SDV	SEE NOTES
VAV-9	180	600	600	75 3/16"	12"	8"	6	208/1	1.5	70	82.6	PRICE SDV	SEE NOTES
VAV-10	180	600	600	75 3/16"	12"	10"	8	208/1	2.0	70	80.5	PRICE SDV	SEE NOTES
VAV-11	180	600	600	75 3/16"	12"	10"	8	208/1	3.5	70	88.4	PRICE SDV	SEE NOTES
VAV-12	525	1750	1750	75 3/16"	24"	18"	14	208/1	7.0	70	80.8	PRICE SDV	SEE NOTES
VAV-13	165	625	625	75 3/16"	12"	10"	8	208/1	2.0	70	80.1	PRICE SDV	SEE NOTES
VAV-14	130	425	425	75 3/16"	12"	8"	6	208/1	1.5	70	81.2	PRICE SDV	SEE NOTES

- NOTES:**
- VAV BOXES TO BE PRESSURE INDEPENDENT TYPE PROVIDED WITH DIGITAL CONTROLS. PROVIDE CONTROLS ENCLOSURE FOR EACH BOX SUITABLE IN SIZE FOR THE DDC CONTROLS APPLICATION INCLUDING AIRFLOW SENSORS.
  - PROVIDE 120/24 VOLT CONTROL TRANSFORMER IN EACH NEW BOX.
  - CONTRACTOR RESPONSIBLE TO PROVIDE PROPER ACCESS FOR MAINTENANCE AND CONTROLS.
  - PROVIDE UNIT WITH 36" SOUND ATTENUATOR WITH CRAF LINER.

**FAN SCHEDULE**

TAG	LOCATION	AREA SERVED	CFM	STATIC PRESSURE (IN. WG.)	SPHERICAL SONES	RPM	MOTOR POWER (HP)	WEIGHT (LBS)	VOLTS/PHASE	MODEL
EF-1	ROOF	WASHROOMS	500	0.5	1.58	1598	0.10	29	120/1	GREENHECK G-090-VG
EF-2	PROGRAM ROOM 120	PROGRAM ROOM 120	1250	0.2	10.4	1591	0.25	45	208/1	GREENHECK SQ-100-VG
TF-1	WORK ROOM 122	ELEC ROOM 123	200	0.25	0.3	980	0.18	23	120/1	GREENHECK CSP-A200
TF-2	WORK ROOM 122	IT CLOSET 121	100	0.25	0.3	980	0.07	16	120/1	GREENHECK CSP-A125

- NOTES:**
- PROVIDE DISCONNECT SWITCH.
  - PROVIDE GRAVITY ASSISTED BACKDRAFT DAMPERS FOR TF-1 AND TF-2.
  - PROVIDE MOTORIZED DAMPERS FOR EF-1 AND EF-2.
  - PROVIDE NEOPRENE SPRING VIBRATION ISOLATORS.
  - PROVIDE 1" ACOUSTICALLY LINED DUCTWORK 15 FEET UPSTREAM & DOWNSTREAM OF ALL FANS.
  - PROVIDE FLEXIBLE DUCT AT INLET AND OUTLET FOR EACH FAN.
  - PROVIDE SPEED CONTROL AT UNIT FOR BALANCING.
  - PROVIDE WALL MOUNTED TIMER SWITCH FOR FAN CONTROLS.
  - CONTRACTOR TO PROVIDE SUPPORT, HANGERS, RODS, SUPPLEMENTAL STEEL, AND SPRING ISOLATORS FOR INSTALLATION.

**RECIRCULATION PUMP SCHEDULE**

TAG	SYSTEM SERVED	FLOW RATE (GPM)	TOTAL HEAD (FT)	MOTOR DATA HP	VOLT/PH	AMPS	MAKE / MODEL
P-1	HOT WATER RECIRCULATION	1.0	20	1/12	115/1	1.4	BELL & GOSSETT / PL-30

- NOTES:**
- PROVIDE CIRCULATION PUMP WITH AQUASTAT.

**WATER HEATER SCHEDULE**

TAG	LOCATION	RECOVERY RATE (GPH) 40-140 F	STORAGE (GAL) (LBS)	ELECTRICAL DATA				WEIGHT (LBS)	DIMENSIONS (IN)	MANUFACTURER MODEL NO.
			KW	PH	HZ	VAC				
EWH-1	JANITOR 116	16	63	4	3	60	208	150	22 DIA. 60-1/2 H	AO. SMITH/ DEJC-66

- NOTES:**
- PROVIDE WITH VALVES AND TEMPERATURE & PRESSURE RELIEF. TESTED AND READY FOR INSTALLATION & OPERATION.
  - PROVIDE LEAK DETECTION SYSTEM IN WATER HEATER DRIP PAN.
  - ET. EXPANSION TANK, SHALL BE BASED ON AMTRLO "THERM-X-TROL, MODEL ST-12. EXPANSION TANK CAPACITY SHALL BE 0.9 GAL MAX ACCEPTANCE, & 2 GAL VOLUME. SET BLADDER PRESSURE TO MATCH DOMESTIC WATER LINE PRESSURE TANK.

**HUMIDIFIER SCHEDULE**

TAG	LOCATION	CAPACITY (LBS/HR)	V/PH/Hz	FLA	WEIGHT (LBS)	MANUFACTURER/ MODEL NO.	REMARKS
HUM-1	JANITOR 116	40.3	600/3/60	13.5	139	VAPORMIST / VM-14	SEE NOTES

- NOTES:**
- FOLLOW MANUFACTURER'S INSTALLATION RECOMMENDATIONS.
  - SINGLE STEAM DISPERSION TUBE SYSTEM COMPLETE WITH CONDENSATE DRAIN TUBE.

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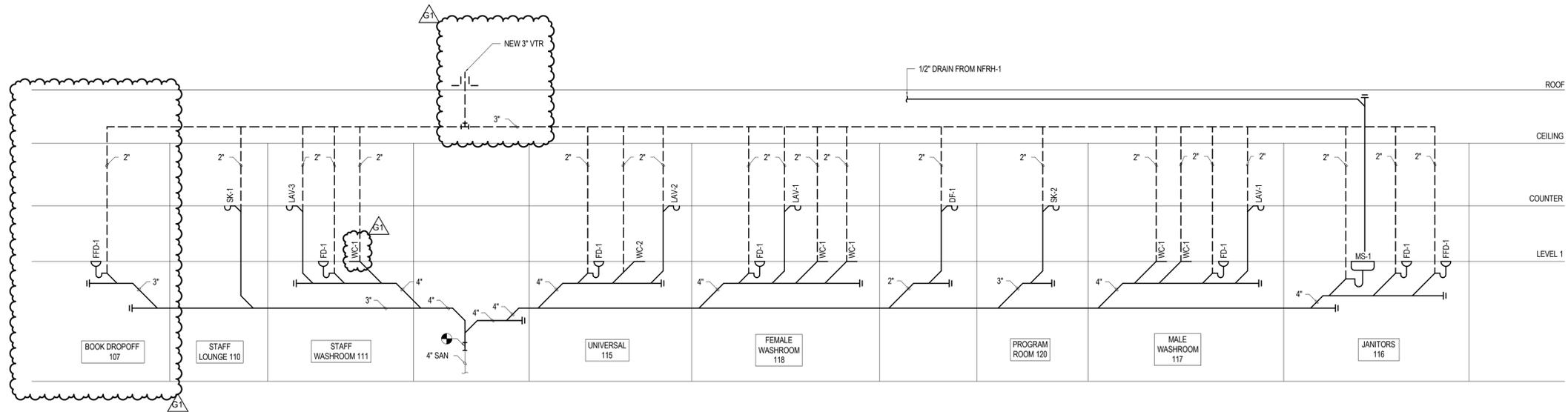
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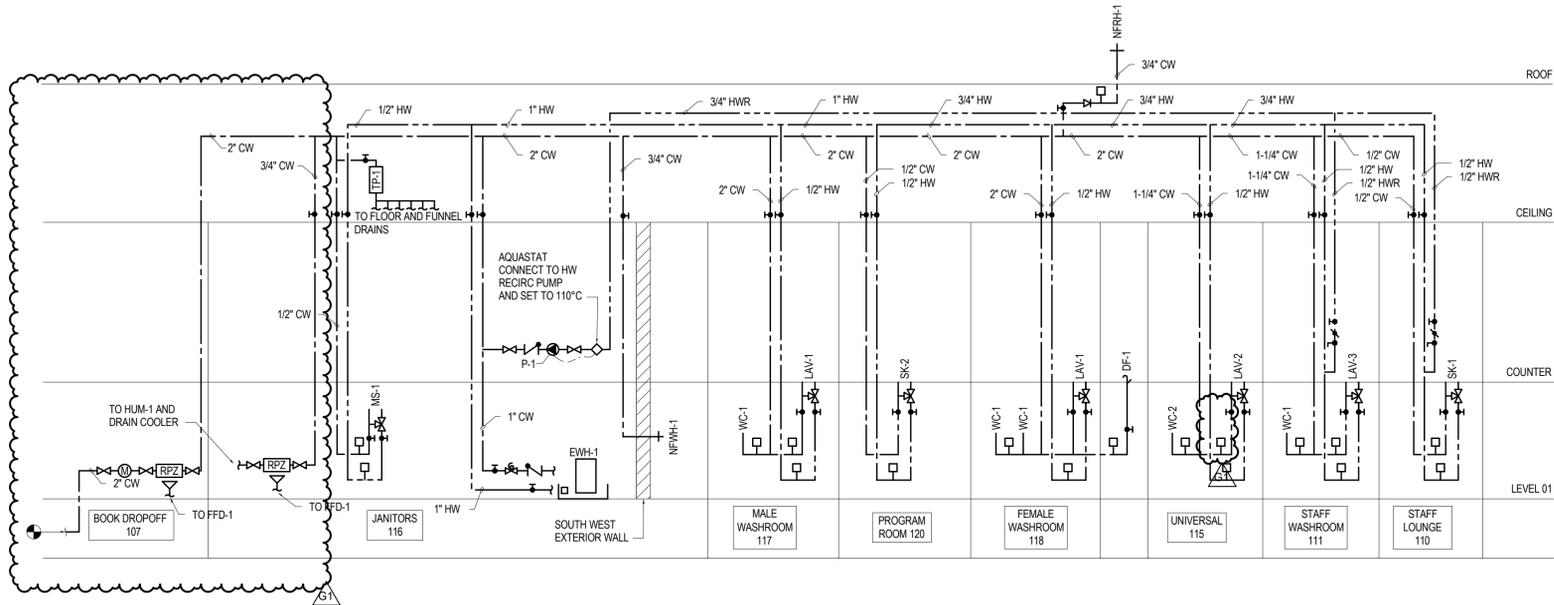
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**MECHANICAL SCHEDULES**

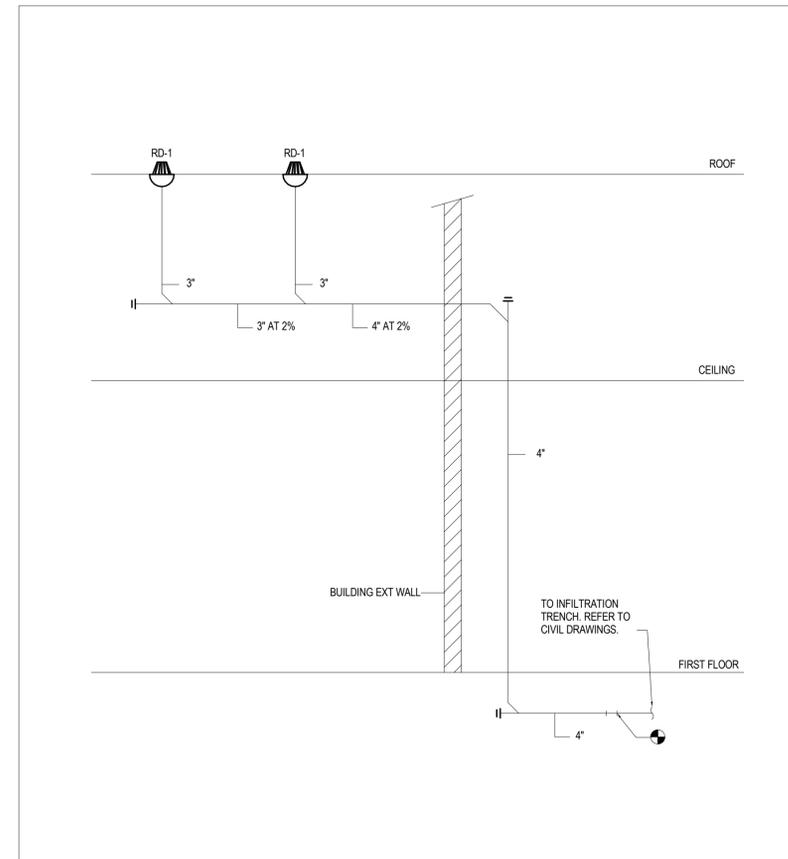
**M-201**



2 SANITARY / WASTE RISER  
M-202 / N.T.S.



3 DOMESTIC WATER RISER  
M-202 / N.T.S.



1 STORM WATER RISER  
M-202 / N.T.S.

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N.T.S. @24x36

**PLUMBING  
RISER  
DIAGRAMS**

**M-202**



3 PLAN - GROUND FLOOR  
M-301/ 1:100

1.0 0.0 2.0 4.0M

GENERAL NOTES THAT APPLY TO ALL DRAWINGS ON THIS SHEET:

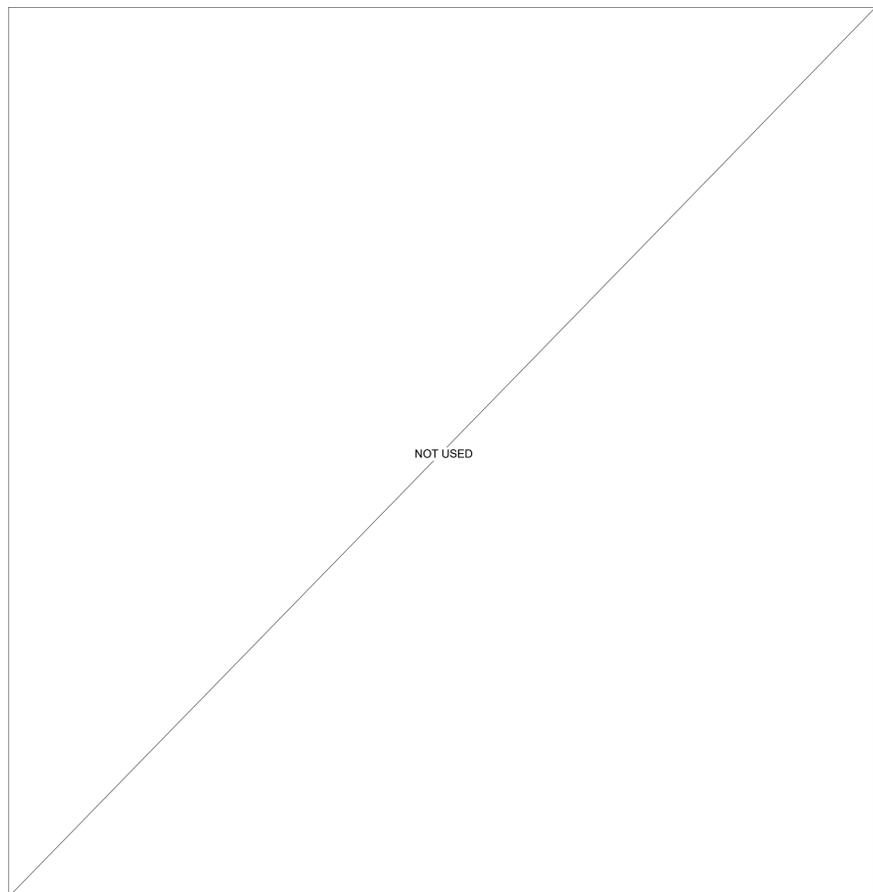
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DRAWING NOTES

- DEMOLISH EXISTING PLUMBING FIXTURES IN THIS AREA. COMPLETE WITH ASSOCIATED DCW, DHW, SAN AND V BACK TO MAIN PIPING AND CAP-OFF. DEMOLISH EXISTING VENT PIPE PENETRATING THE ROOF. GT
- DEMO EXISTING WATER METER. REFER TO NEW WORK PLAN FOR LOCATION OF NEW WATER METER.
- DEMOLISH EXISTING SINK COMPLETE WITH ASSOCIATED DCW, DHW, SAN, AND V TO MAIN PIPING AND CAP-OFF.
- EXISTING GAS METER TO BE RELOCATED. DEMO AND REROUTE GAS PIPING AS REQUIRED. COORDINATE FINAL LOCATION OF METER AND NEW GAS PIPE ROUTING ON SITE WITH LOCAL GAS COMPANY.

2 DRAWING NOTES  
M-301



1 DETAIL - NOT USED  
M-301/ N.T.S.

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**PLUMBING**  
LEVEL 01  
DEMOLITION PLAN

**M-301**

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HATCH INDICATES AREAS NOT IN SCOPE

**DRAWING NOTES:**

- RELOCATED GAS METER ABOVE GRADE. PROVIDE ALL REQUIRED SUPPORTS AND PADS IN ACCORDANCE WITH UTILITY REQUIREMENTS. COORDINATE RELOCATION OF GAS METER AND PIPING WITH LOCAL GAS CO.
- 1/2" DRAIN LINE FROM NFRH-1. SPILL INTO MOP SINK IN JANITOR ROOM.
- PROVIDE ACCESSIBLE CLEANOUT DECK PLATE FOR ALL CLEANOUTS BELOW THE FLOOR, TYPICAL.
- PROVIDE NEW DRAIN COOLER AS MANUFACTURED BY ARMSTRONG MODEL CC-5 OR AN APPROVED EQUAL AND INSTALL AS PER THE MANUFACTURER'S RECOMMENDATIONS. NEW DRAIN COOLER SHALL BE VENTED TO ATMOSPHERE, TERMINATING 6" ABOVE ROOF DECK WITH A GOOSENECK.

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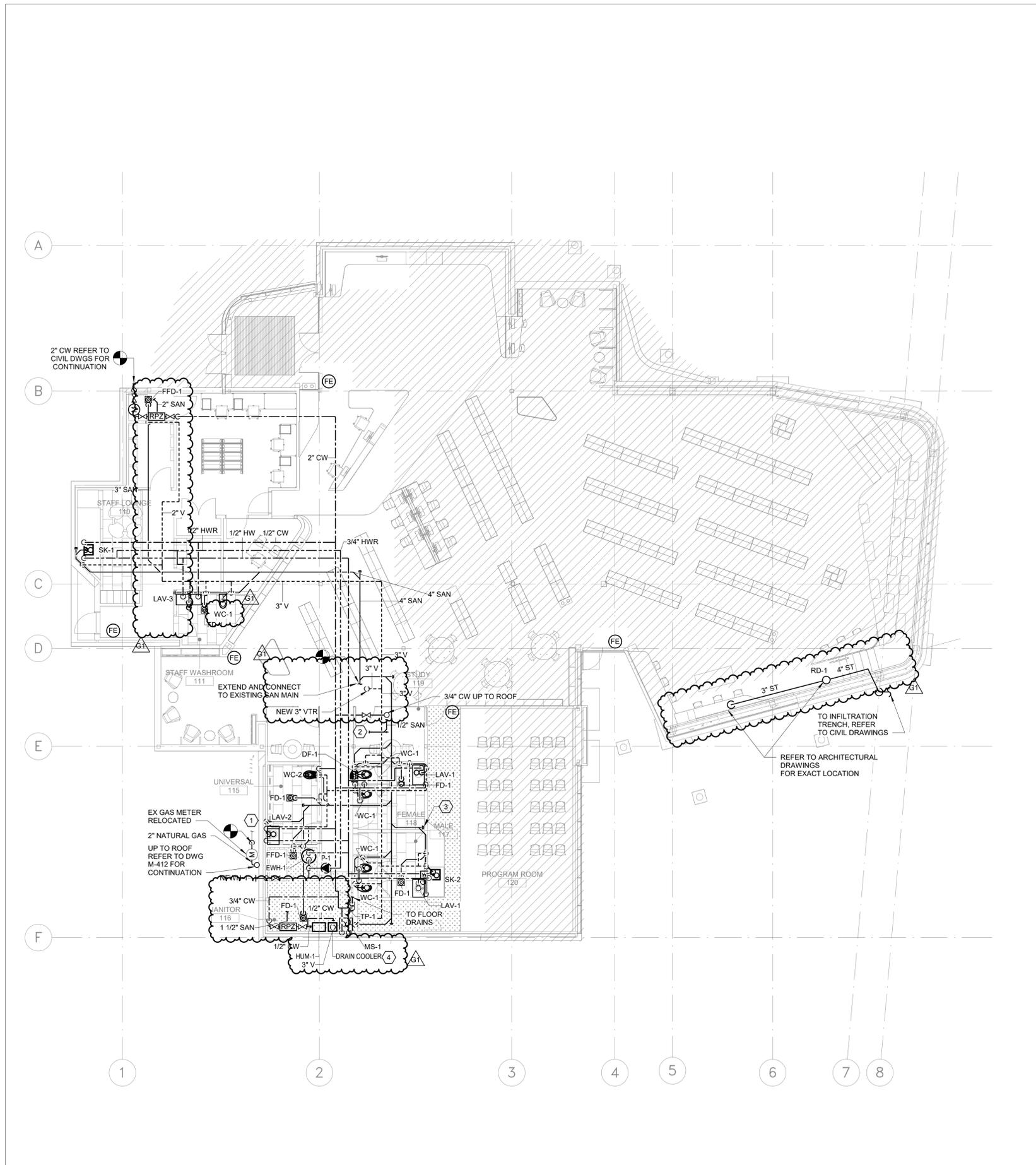
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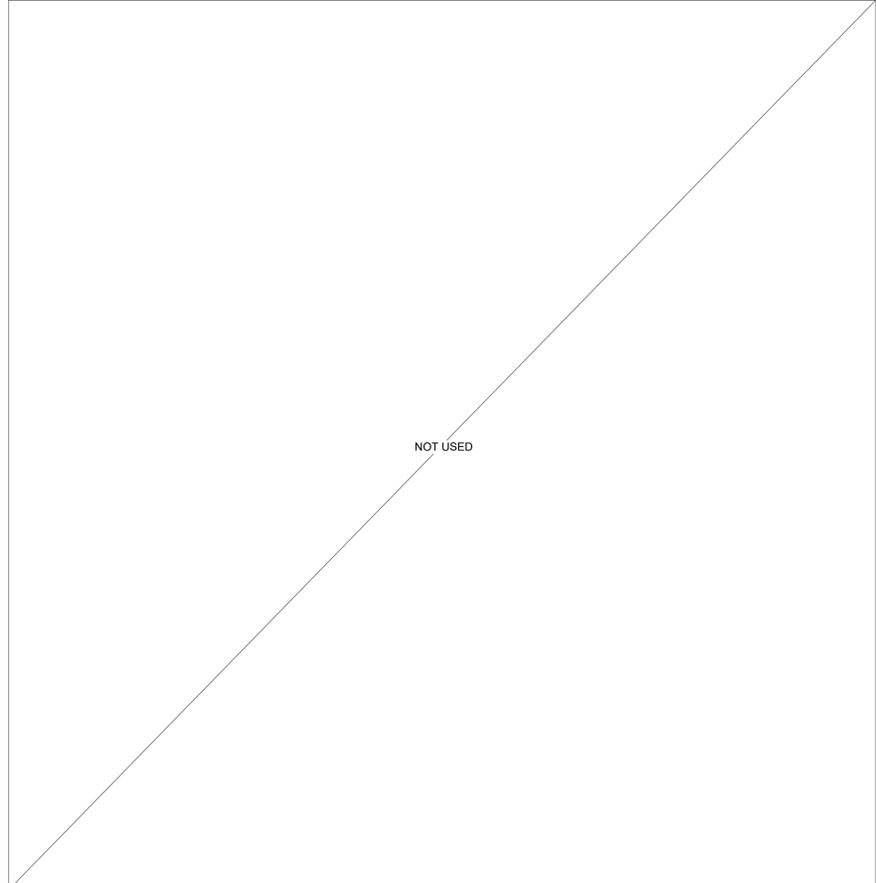
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**PLUMBING AND  
FIRE PROTECTION  
LEVEL 01  
NEW WORK PLAN**

**M-311**



2 DRAWING NOTES  
M-311



1 DETAIL - NOT USED  
M-311 N.T.S.

3 PLAN - GROUND FLOOR  
M-311 1:100

1.0 0.0 2.0 4.0M

**GENERAL NOTES:**

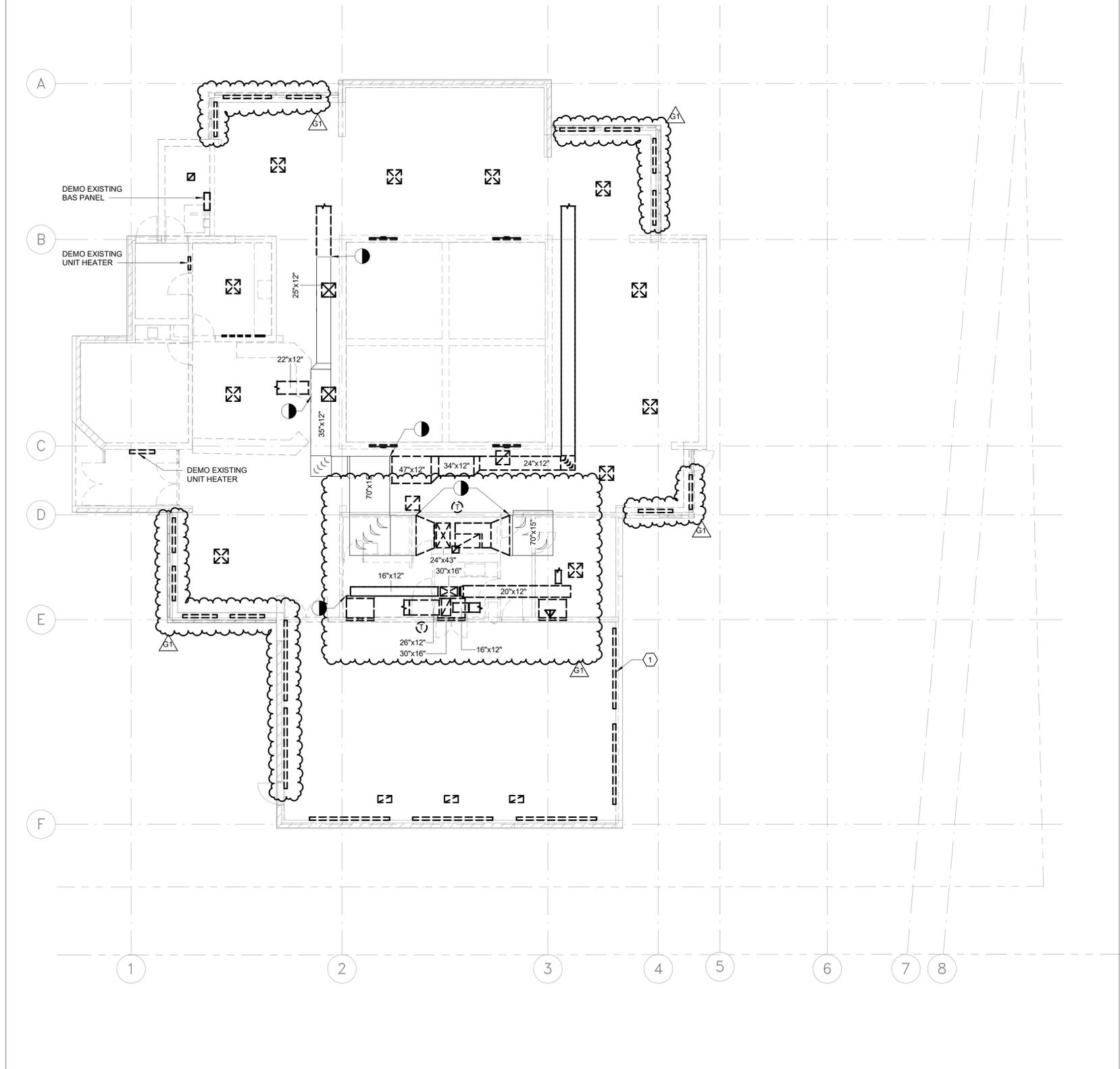
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2. DEMO EXISTING SUPPLY DIFFUSERS COMPLETE WITH ASSOCIATED SUPPLY DUCT BRANCH BACK TO THE MAIN SUPPLY DUCT SHOWN AND CAP-OFF.
3. DEMO EXISTING RETURN GRILLES.
4. DEMO EXISTING THERMOSTATS AS SHOWN COMPLETE WITH CONTROLS WIRING.



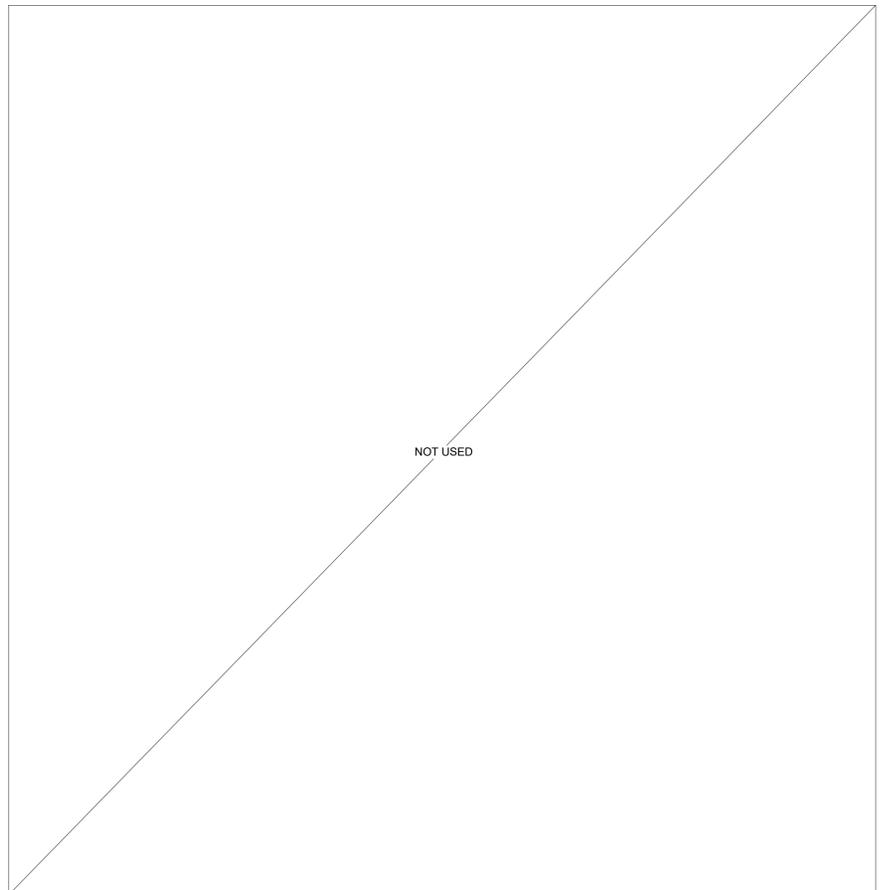
HATCH INDICATES AREAS NOT IN SCOPE

**DRAWING NOTES:**

- ① DEMO EXISTING BASEBOARD HEATER (TYPICAL UNLESS OTHERWISE NOTED)



2 DRAWING NOTES  
M-401



1 DETAIL - NOT USED  
M-401 N.T.S.

3 PLAN - GROUND FLOOR  
M-401/ 1:100



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C	ISSUED FOR 50% CD REVIEW	2023-06-16
A	ISSUED FOR 100% DD	2023-02-09
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1 : 100 @24x36

**HVAC**  
**LEVEL 01**  
**DEMOLITION PLAN**

**M-401**

**GENERAL NOTES:**

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HATCH INDICATES AREAS NOT IN SCOPE

**DRAWING NOTES:**

- INTERLOCK MOTORIZED DAMPER WITH EXHAUST FAN "EF-2". MOTORIZED DAMPER SHALL BE NORMALLY OPEN. MOTORIZED DAMPER SHALL CLOSE WHEN EF-2 IS ON. INTERLOCKING BY MECHANICAL CONTROLS DIVISION, MECHANICAL DIVISION TO PROVIDE RELAY, TRANSFORMER, AND ANY NECESSARY ACCESSORIES TO MEET THE SEQUENCE OF OPERATION REQUIREMENTS.
- INTERLOCK MOTORIZED DAMPER WITH EXHAUST FAN "EF-2". MOTORIZED DAMPER SHALL BE NORMALLY CLOSED. MOTORIZED DAMPER SHALL OPEN WHEN EF-2 IS ON. INTERLOCKING BY MECHANICAL CONTROLS DIVISION, MECHANICAL DIVISION TO PROVIDE RELAY, TRANSFORMER, AND ANY NECESSARY ACCESSORIES TO MEET THE SEQUENCE OF OPERATION REQUIREMENTS.

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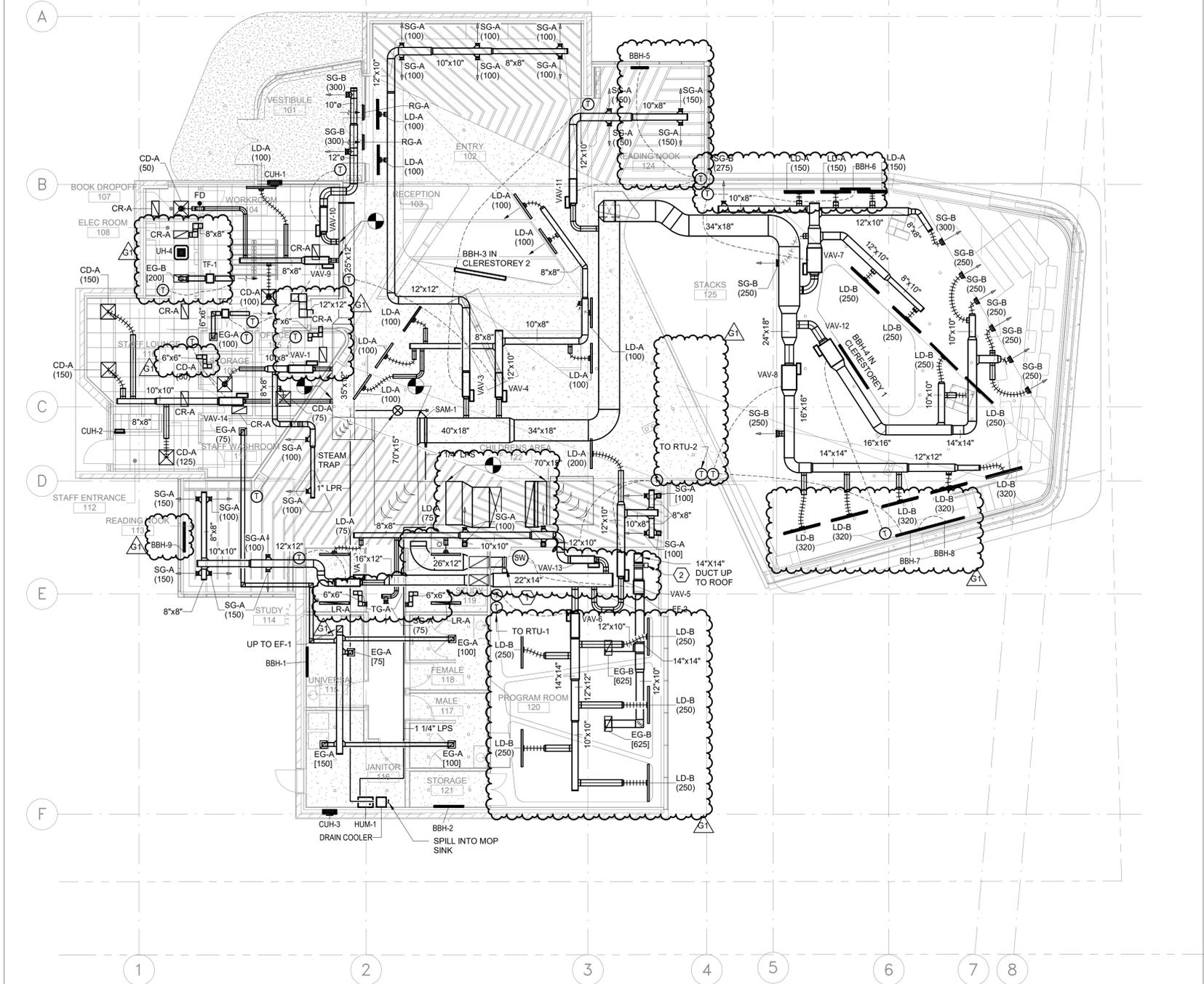
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1 : 100 @24x36

**HVAC**  
LEVEL 01  
NEW WORK PLAN

**M-411**



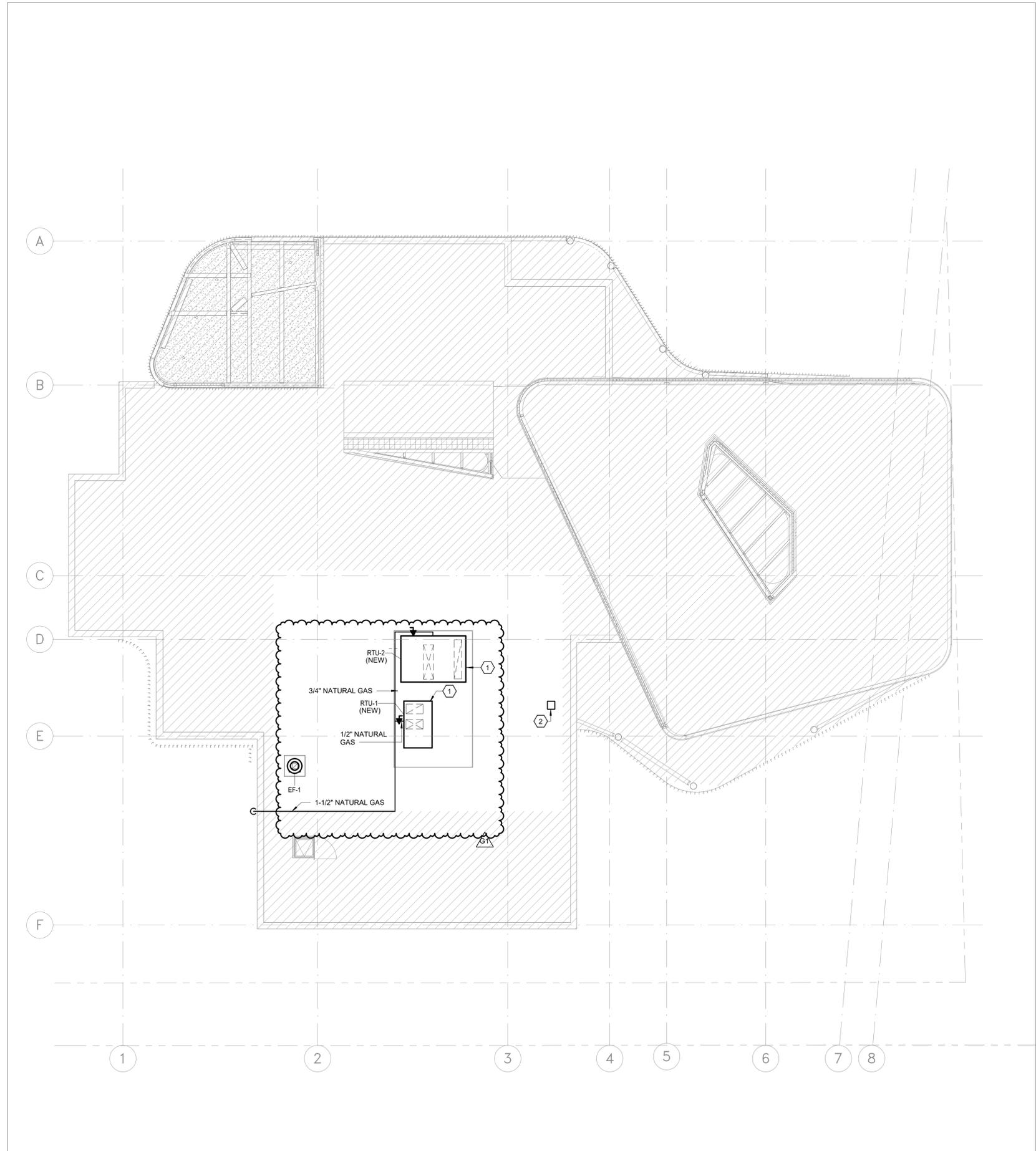
2 DRAWING NOTES  
M-411

1 DETAIL - NOT USED  
M-411 N.T.S.

3 PLAN - GROUND FLOOR  
M-411/ 1:100

1.0 0.0 2.0 4.0M

NOT USED



3 PLAN - ROOF LEVEL  
M-412/ 1:100

1.0 0.0 2.0 4.0M

1 DETAIL - NOT USED  
M-412/ N.T.S.

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HATCH INDICATES AREAS NOT IN SCOPE

**DRAWING NOTES:**

- RECONNECT NEW RTU TO EXISTING NATURAL GAS PIPING. PROVIDE MINIMUM 14" HIGH ROOF CURB AS PER MANUFACTURERS RECOMMENDATION.
- 14"x14" EXHAUST DUCT FROM BELOW. TERMINATE WITH GOOSENECK AS PER DETAIL.

2 DRAWING NOTES  
M-412

NOT USED

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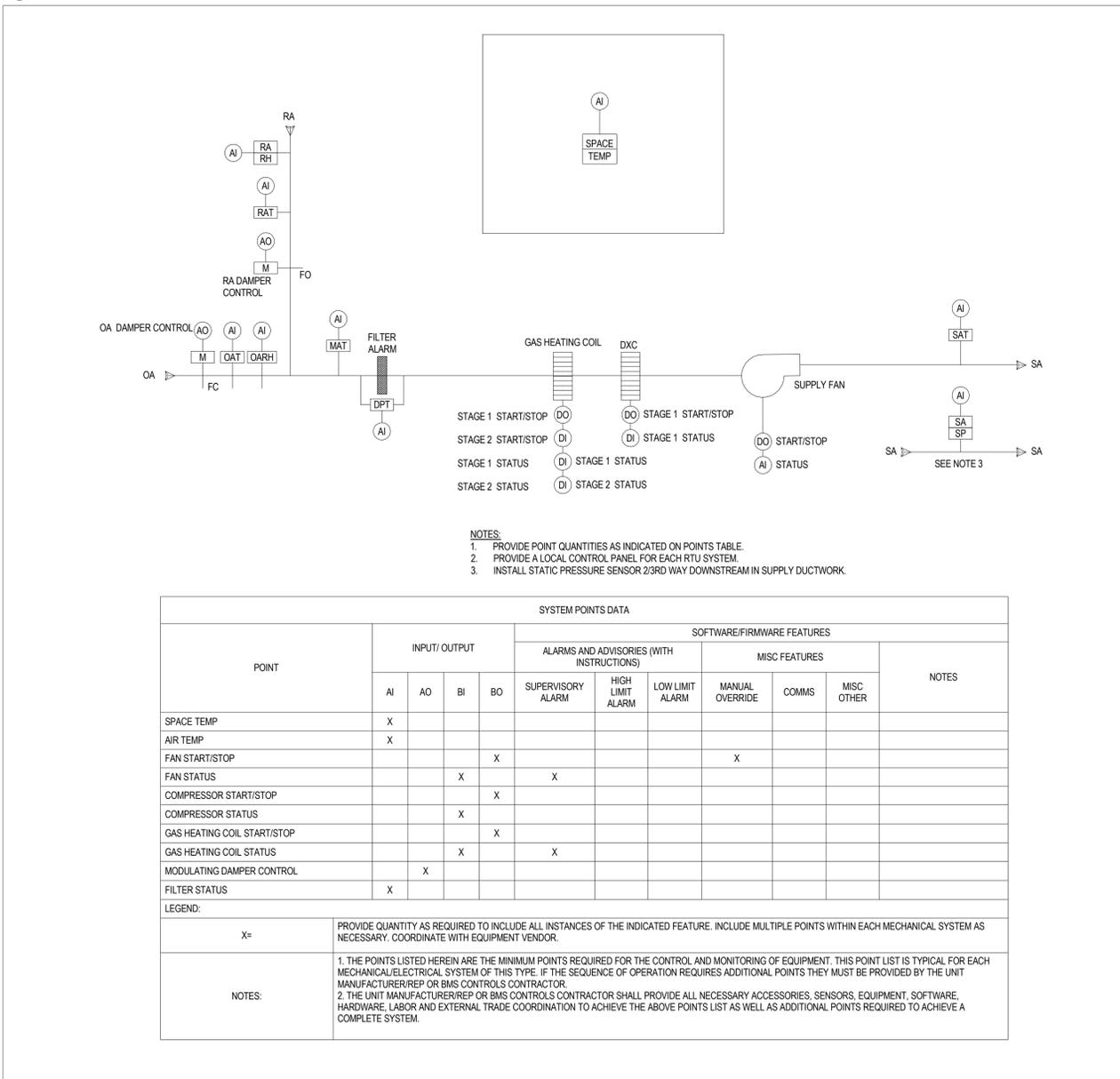


1 : 100 @24x36

**HVAC  
ROOF LEVEL  
NEW WORK PLAN**

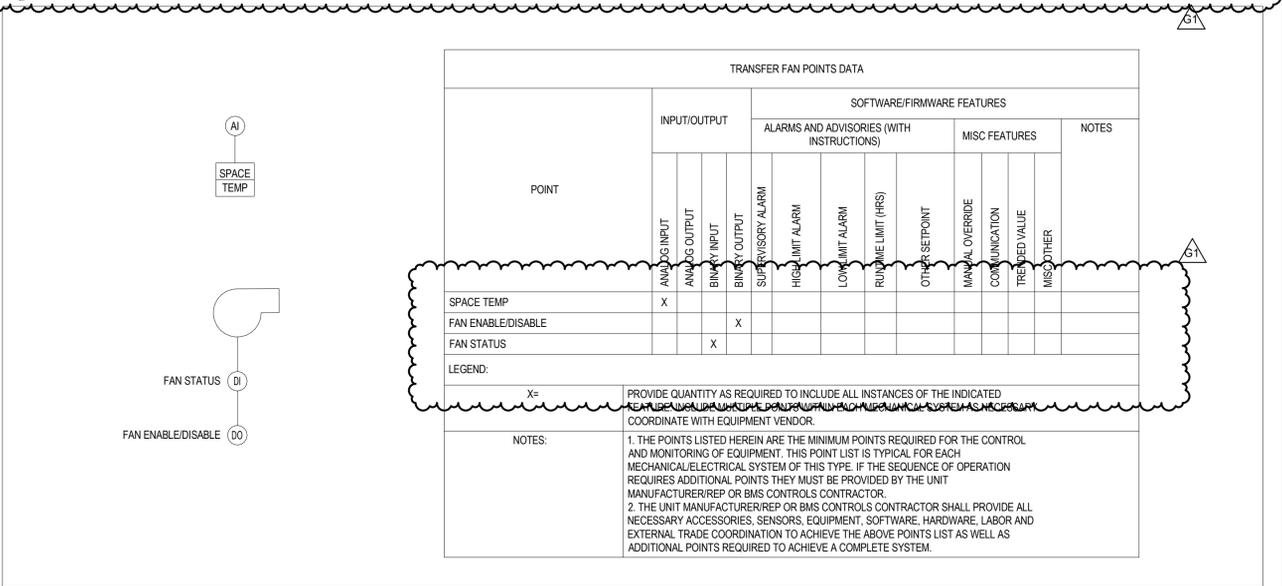
**M-412**

5 DETAIL - NOT USED  
M-601 / N.T.S.

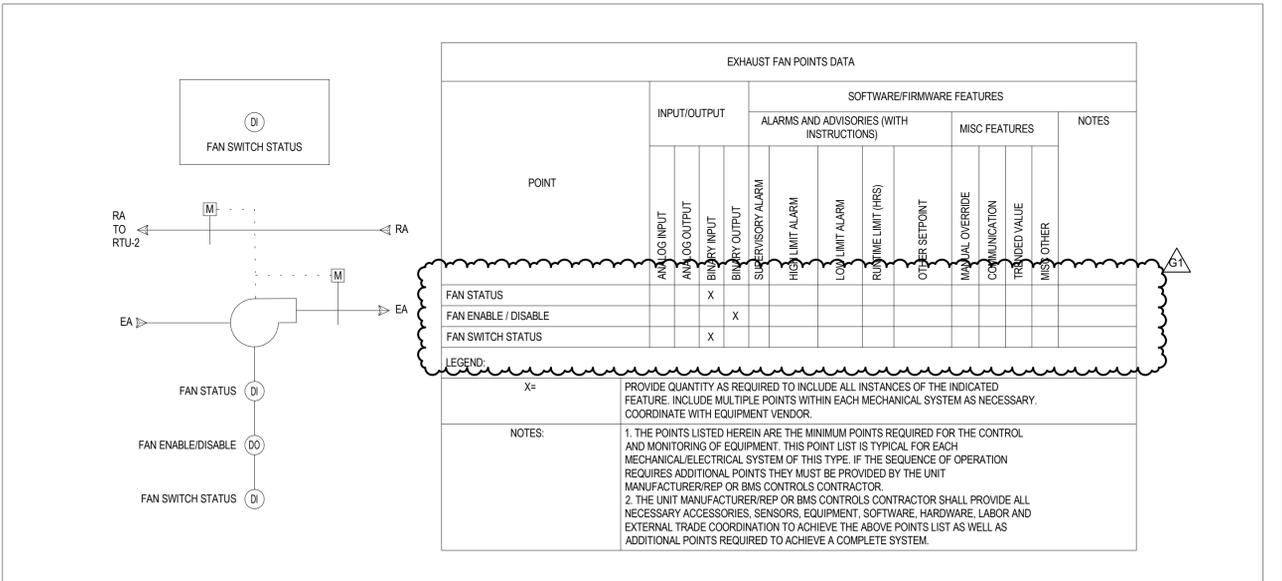


4 ROOF TOP UNIT CONTROLS DIAGRAM  
M-601 / N.T.S.

3 EF-1 CONTROLS DIAGRAM  
M-601 / N.T.S.



2 TRANSFER FAN CONTROLS DIAGRAM  
M-601 / N.T.S.



1 EF-2 CONTROLS DIAGRAM  
M-601 / N.T.S.

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**MECHANICAL CONTROLS DIAGRAMS SHEET 1**

**M-601**

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N.T.S. @24x36

**MECHANICAL**  
**DETAILS**  
**SHEET 3**

**M-803**

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