



Pre-Engineered Building

University of Toronto Mississauga

3265 Principal's Road, Mississauga
 Issued for Tender 2024-11-25

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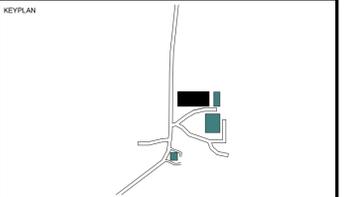
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 120 Eastview Drive
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| No. | ISSUANCE | DATE |
|-----|---------------------------------------|------------|
| 1 | Issued for Class C Costing | 2023-12-06 |
| 2 | Issued for PEB Scope RFP | 2023-12-15 |
| 3 | Issued for 100% SD | 2023-12-21 |
| 4 | Issued for SPA | 2024-02-09 |
| 5 | Issued for Design Development Costing | 2024-03-28 |
| 6 | Issued for Permit | 2024-11-08 |
| 7 | Issued for Tender | 2024-11-25 |

| ARCHITECTURAL DRAWING LIST | |
|----------------------------|-------------------------------------|
| Sheet Number | Sheet Name |
| A000 | COVER SHEET & DRAWING LIST |
| A001 | RESPONSIBILITY MATRIX |
| A002 | LIFE SAFETY AND CODE MATRIX |
| A003 | ASSEMBLIES, LEGENDS & NOTES |
| A004 | SCHEDULES |
| A100 | CONTEXT PLAN |
| A101 | SITE PLAN |
| A200 | FOUNDATION PLAN |
| A201 | SLAB EDGE PLAN |
| A202 | GROUND FLOOR PLAN |
| A203 | MEZZANINE FLOOR PLAN |
| A204 | ROOF PLAN |
| A211 | ENLARGED PLANS - WEST WING/ FSC |
| A212 | ENLARGED PLANS - CENTRAL WING |
| A213 | ENLARGED PLANS - EAST WING/CROBE |
| A301 | REFLECTED CEILING PLAN |
| A401 | ELEVATIONS |
| A402 | ELEVATIONS |
| A501 | BUILDING SECTIONS |
| A502 | BUILDING SECTIONS |
| A510 | WALL SECTIONS |
| A511 | WALL SECTIONS |
| A520 | PLAN DETAILS - ENVELOPE |
| A525 | SECTION DETAILS - ENVELOPE |
| A526 | SECTION DETAILS - ENVELOPE |
| A527 | SECTION DETAILS - ENVELOPE |
| A528 | ENTRANCE CANOPY DETAILS |
| A530 | ROOF TOP ENCLOSURE DETAILS |
| A601 | PLAN DETAILS - INTERIOR |
| A602 | SECTION DETAILS - INTERIOR |
| A701 | INTERIOR ELEVATIONS |
| A702 | INTERIOR ELEVATIONS |
| A703 | INTERIOR ELEVATIONS |
| A704 | INTERIOR ELEVATIONS |
| A705 | INTERIOR ELEVATIONS |
| A706 | INTERIOR ELEVATIONS |
| A707 | INTERIOR ELEVATIONS |
| A708 | INTERIOR ELEVATIONS |
| A709 | INTERIOR ELEVATIONS |
| A710 | INTERIOR ELEVATIONS |
| A801 | MILLWORK SCHEDULE KEY PLAN |
| A802 | MILLWORK DRAWINGS - FORENSIC GARAGE |
| A803 | MILLWORK DRAWINGS - LOUNGE |
| A804 | MILLWORK DRAWINGS - CROBE |
| A805 | MILLWORK DRAWINGS - CROBE |
| A806 | MILLWORK DRAWINGS - CROBE |

| CIVIL DRAWING LIST | |
|--------------------|---|
| Sheet Number | Sheet Name |
| C2.1 | SITE GRADING, EROSION & SEDIMENT CONTROL PLAN |
| C2.2 | SITE SERVICING PLAN |
| C2.3 | NOTES AND DETAILS PLAN |

| LANDSCAPE DRAWING LIST | |
|------------------------|-------------------------------------|
| Sheet Numbers | Sheet Names |
| L100 | LANDSCAPE PLAN |
| L200 | SITE PLANTING PLAN |
| L210 | ECOLOGICAL OFFSETTING PLANTING PLAN |
| L211 | ECOLOGICAL OFFSETTING PLANTING PLAN |
| L220 | LAND-BASED OFFSETTING PLANTING PLAN |
| L300 | LANDSCAPE DETAILS |
| L301 | LANDSCAPE DETAILS |

| MECHANICAL DRAWING LIST | |
|-------------------------|---------------------------------------|
| Sheet Number | Sheet Name |
| M001 | MECHANICAL LEGEND, DRAWING LIST |
| M100 | PLUMBING - UNDERSLAB |
| M101 | PLUMBING - GROUND FLOOR AND MEZZANINE |
| M102 | PLUMBING - ROOF |
| M301 | HVAC - GROUND FLOOR AND MEZZANINE |
| M302 | HVAC - ROOF |
| M500 | MECHANICAL DETAILS |
| M501 | MECHANICAL DETAILS |
| M502 | REFRIGERANT PIPING DIAGRAMS |
| M800 | MECHANICAL SCHEDULES |
| M801 | MECHANICAL SCHEDULES |

| FIRE PROTECTION DRAWING LIST | |
|------------------------------|---|
| Sheet Number | Sheet Name |
| FP-1 | SITE PLAN AND GENERAL NOTES |
| FP-2.1 | NFPA FIGURES AND GENERAL NOTES |
| FP-2.2 | NFPA FIGURES AND GENERAL NOTES |
| FP-2.3 | RISER SCHEMATIC AND SUPERVISED SCHEDULE |
| FP-3 | PROPOSED SPRINKLER LAYOUT GROUND FLOOR |
| FP-4 | PROPOSED SPRINKLER LAYOUT MEZZANINE FLOOR |

| ELECTRICAL DRAWING LIST | |
|-------------------------|---|
| Sheet Number | Sheet Name |
| E001 | ELECTRICAL LEGEND AND DRAWING LIST |
| E100 | ELECTRICAL SITE PLAN |
| E101 | ELECTRICAL SITE LIGHTING PLAN |
| E201 | LIGHTING LAYOUT |
| E301 | POWER AND SYSTEMS LAYOUT - GROUND FLOOR |
| E302 | POWER AND SYSTEMS LAYOUT - MEZZANINE PLAN |
| E303 | POWER AND SYSTEMS LAYOUT - ROOF PLAN |
| E500 | ELECTRICAL SINGLE LINE DIAGRAM |
| E701 | MECHANICAL SCHEDULE |
| E702 | LIGHTING SCHEDULE |
| E703 | FIRE ALARM SCHEDULE |
| E801 | ELECTRICAL DETAILS |
| E802 | LIGHTING CONTROL DETAILS |

| TELECOMMUNICATIONS DRAWING LIST | |
|---------------------------------|--------------------------------|
| Sheet Number | Sheet Name |
| T-001 | LEGEND, DRAWING LIST AND NOTES |
| T-002 | SPECIFICATIONS |
| T-101 | SITE PLAN |
| T-201 | TELECOM LAYOUTS |
| T-301 | HUB ROOM LAYOUT AND ELEVATION |
| T-401 | DETAILS |

| SECURITY DRAWING LIST | |
|-----------------------|--------------------------------|
| Sheet Number | Sheet Name |
| SD-001 | LEGEND, DRAWING LIST AND NOTES |
| SD-002 | SPECIFICATIONS |
| SD-201 | GROUND FLOOR SECURITY LAYOUT |
| SD-401 | DETAILS |

| AUDIO-VISUAL DRAWING LIST | |
|---------------------------|---|
| Sheet Number | Sheet Name |
| AV000 | AV DRAWING LIST |
| AV001 | AV LEGENDS, NOTES & COORDINATION MATRIX |
| AV101A | GROUND FLOOR - AV DEVICE FLOOR PLAN |
| AV101B | GROUND FLOOR - AV DEVICE RCP |
| AV200 | AV ELEVATIONS |
| AV300 | AV CONDUIT NOTES |
| AV301 | AV RISER DIAGRAM |
| AV400 | AV DETAILS |
| AV401 | AV DETAILS |
| AV500 | AV FUNCTIONALS |
| AV501 | AV FUNCTIONALS |
| AV502 | AV FUNCTIONALS |

**FOR REFERENCE ONLY:
FOUNDATION AND FRAME BY OTHER**

| STRUCTURAL - FOUNDATION - DRAWING LIST | |
|--|--------------------------------|
| Sheet Number | Sheet Name |
| S100 | FOUNDATION PLAN |
| S101 | SLAB PLAN |
| S401 | PIER DETAILS |
| S402 | PIER DETAILS |
| S500 | CONCRETE DETAILS |
| S600 | STRUCTURAL NOTES AND SCHEDULES |

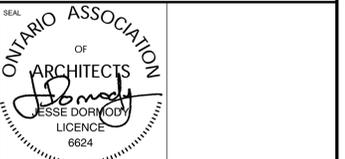
| STRUCTURAL - FRAME - DRAWING LIST | |
|-----------------------------------|---|
| Sheet Number | Sheet Name |
| 1 | GENERAL 3D VIEW |
| 1A | DRAWING SCHEDULE |
| 1B | GENERAL INFORMATION SHEET AND CONFORMANCE |
| 1C | GENERAL INFORMATION SHEET |
| 2 | GENERAL INFORMATION SHEET |
| 2A | ANCHOR ROD PLAN |
| 2B | ANCHOR ROD DETAILS |
| 3 | ANCHOR ROD REACTIONS |
| 3A | ROOF LOADS |
| 4 | RIGID FRAME ELEVATION |
| 4A | RIGID FRAME ELEVATION |
| 4B | WIND BENT ELEVATION |
| 5 | ROOF FRAMING |
| 6 | ENDWALL FRAMING |
| 7 | ENDWALL FRAMING |
| 8 | SIDEWALL FRAMING |
| 9 | SIDEWALL FRAMING |
| 10 | FLOOR FRAMING AND JOISTS |

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 University of Toronto Mississauga

PROJECT
 Pre-Engineered Building
 3265 Principal's Road, Mississauga, Ontario

TITLE
 COVER SHEET & DRAWING LIST

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SCALE: 1 : 1 SHEET NO: **A000**

DATE: 03/28/2024

PROJECT NO: 2301

DRAWN BY: Author

CHECKED BY: Checker

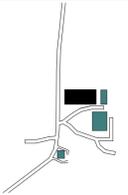
| DIVISION | ITEM | SCOPE | | | |
|--|--|------------------------|-----------------------|--------|----------------------------|
| | | Other - Pre-Engineered | General Contractor | Owner | Other - per note |
| NOTE: Scope items not noted in this list are the responsibility of the General Contractor | | | | | |
| Div 01 | General Requirements | | | | |
| | CCTV site monitoring | | X | | |
| | construction survey | X (foundation only) | X | | |
| | locates | | X | | |
| Div 02 | Existing Conditions | | | | |
| Div 03 | Concrete | | | | |
| | Foundation walls, footings, and piers | supply and install | coordinate | | |
| | frost slabs | | supply and install | | |
| | slab-on-grade | supply and install | coordinate | | |
| | slab on metal deck at mezzanine | supply and install | coordinate | | |
| | service openings in foundation wall | install | coordinate | | |
| | concrete polishing | | supply and install | | |
| | concrete sealer | | supply and install | | |
| | exterior paving | | supply and install | | |
| Div 05 | Metals | | | | |
| | Moment Frames and wind-bent frames | supply and install | coordinate | | |
| | Cross Bracing | supply and install | coordinate | | |
| | roof purlins | supply and install | coordinate | | |
| | wall girts | supply and install | coordinate | | |
| | framing at openings [windows, doors, roof curbs] | supply and install | coordinate | | |
| | mezzanine framing and deck | supply and install | coordinate | | |
| | Entrance canopy [framing only] | supply and install | coordinate | | |
| | Rooftop Mechanical enclosure | | supply and install | | |
| | Metal Fabrications - refer to 05 50 00 | | supply and install | | |
| | Architectural Metal Fabrications - refer to 05 70 00 | | supply and install | | |
| Div 06 | Wood, Plastics and Composites | | supply and install | | |
| Div 07 | Thermal and Moisture Protection | | | | |
| | foundation wall - waterproofing | supply and install | coordinate | | |
| | foundation wall - insulation | supply and install | coordinate | | |
| | slab-on-grade - insulation and vapour barrier | supply and install | coordinate | | |
| | Walls - Insulated Metal Panels | supply and install | coordinate | | |
| | Roof - Insulated Metal Panels | supply and install | coordinate | | |
| | IMP opening - temporary protection | supply and install | supply and install | | |
| | IMP/IMP interface - sealing and flashing | supply and install | coordinate | | |
| | IMP rough opening - sealing and flashing | supply and install | coordinate | | |
| | IMP opening - sealing at aluminum framed glazing | | supply and install | | |
| | IMP opening - sealing at sectional doors | | supply and install | | |
| | IMP opening - sealing at hollow metal doors | | supply and install | | |
| | Roof hatch with integral curb and sealing | install | Supply and coordinate | | |
| | IMP roof penetrations for services | provide opening | supply and install | | |
| | IMP roof penetrations - sealing | supply and install | coordinate | | |
| | IMP wall penetrations for services | provide opening | supply and install | | |
| | IMP wall penetrations - sealing | supply and install | coordinate | | |
| | fabricated gutters and downspouts | supply and install | coordinate | | |
| | mineral wool batt insulation | | supply and install | | |
| | mineral wool rigid insulation | | supply and install | | |
| | Entrance canopy roofing and cladding | coordinate | supply and install | | |
| Div 08 | Openings | | supply and install | | |
| Div 09 | Finishes | | supply and install | | |
| Div 10 | Specialties | | supply and install | | |
| Div 11 | Equipment | | supply and install | | |
| Div 12 | Furnishings | | supply and install | | |
| Div 20 | General Mechanical | | supply and install | | |
| Div 21 | Fire Suppression | | supply and install | | |
| Div 22 | Plumbing | | supply and install | | |
| Div 23 | HVAC | | supply and install | | |
| | roof curbs for mechanical equipment | install | Supply and coordinate | | |
| Div 25 | Integrated Automation | | supply and install | | |
| Div 26 | General Electrical | | supply and install | | |
| | transformer - refer to Electrical documents | | coordinate | supply | install: Alectra Utilities |
| Div 27 | Communications | | supply and install | | |
| Div 28 | Electronic Security and Safety | | supply and install | | |
| Div 31 | Earthwork | | | | |
| | excavation and disposal for foundation | supply and install | coordinate | | |
| | backfill and compaction for foundation | supply and install | coordinate | | |
| | Fill, granular and compaction for slab-on-grade | supply and install | coordinate | | |
| Div 32 | Exterior Improvements | | supply and install | | |
| Div 33 | Utilities | | | | |
| | foundation wall perimeter drainage | supply and install | coordinate | | |
| | sump pit and sand pit excavation and placing | coordinate | supply and install | | |
| | site servicing | | supply and install | | |

CLIENT LOGO



UNIVERSITY OF
TORONTO
MISSISSAUGA

KEYPLAN



| No. | ISSUANCE | DATE |
|-----|-------------------|------------|
| 1 | Issued for Tender | 2024-11-25 |

CLIENT

University of Toronto Mississauga

PROJECT

Pre-Engineered Building

3265 Principal's Road, Mississauga, Ontario

TITLE

RESPONSIBILITY MATRIX

architects
Baird Sampson Neuert

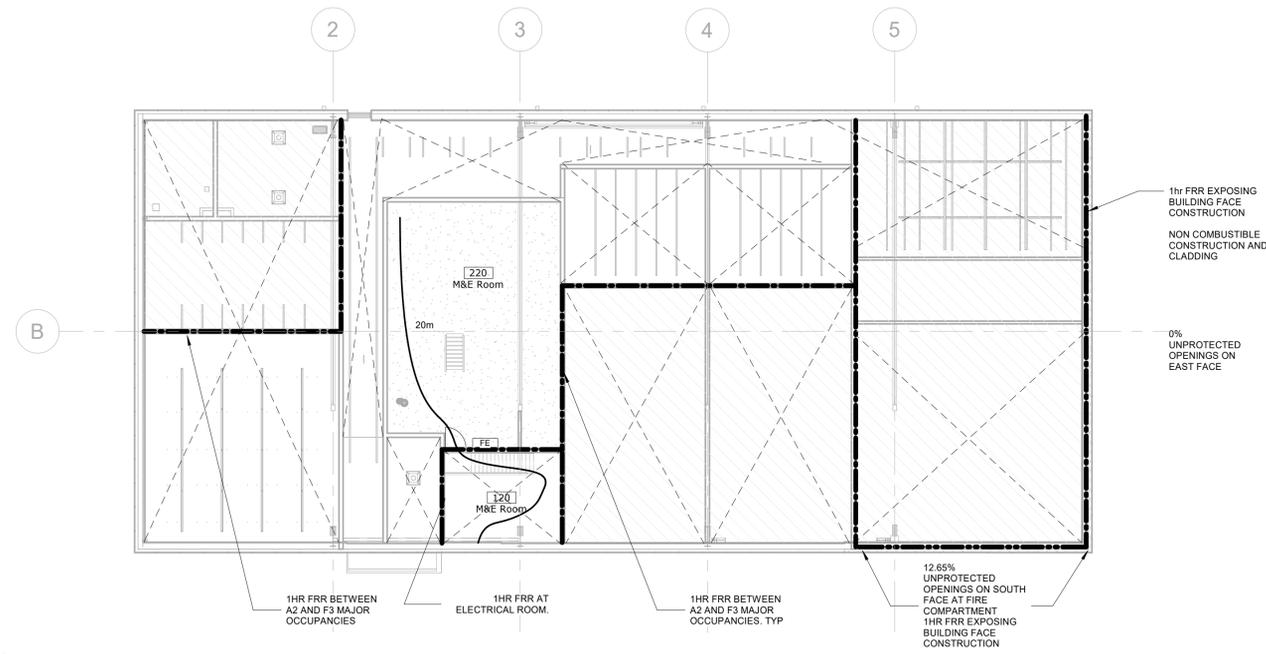
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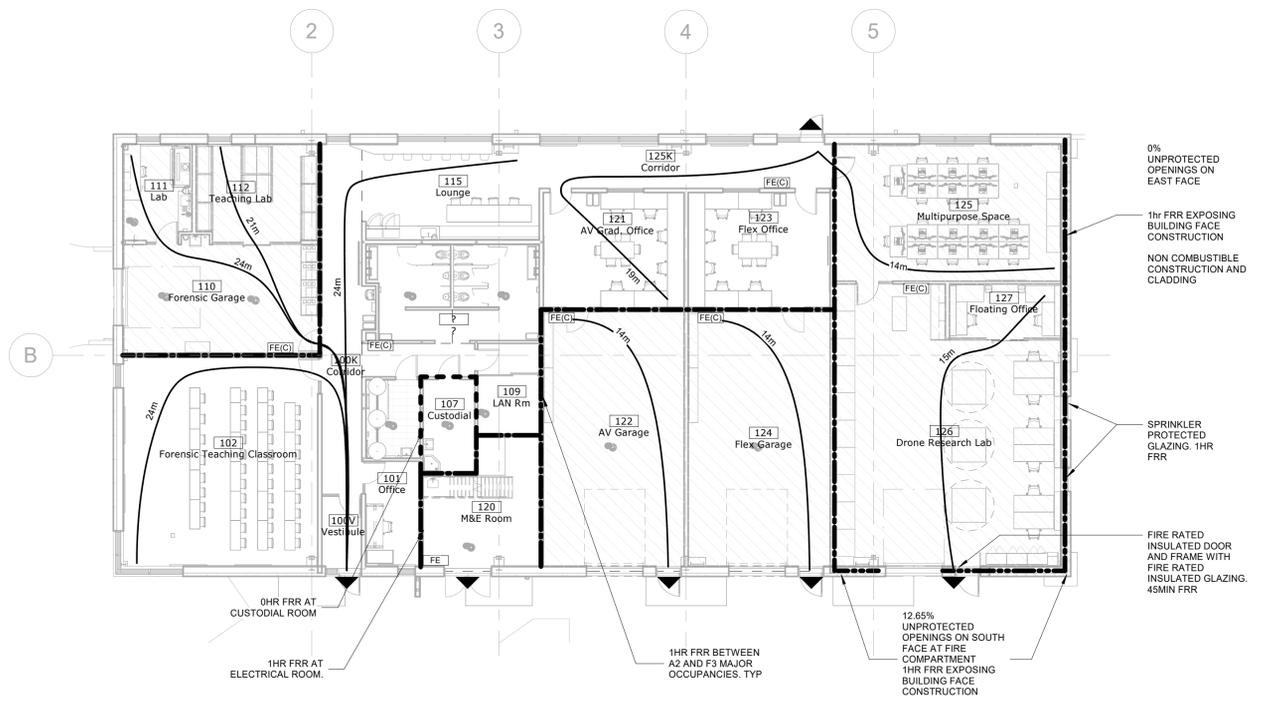
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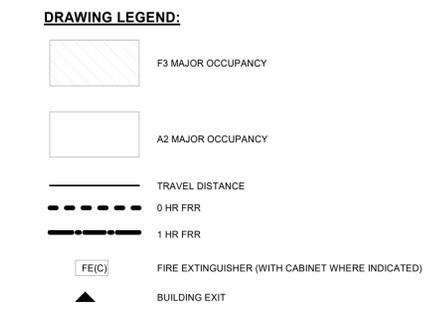
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| DATE: 03/28/2024 | A001 |
| PROJECT NO: 2301 | |
| DRAWN BY: Author | |
| CHECKED BY: Checker | |



2 LEVEL 2 - LIFE SAFETY AND EGRESS
A002 Scale: 1 : 150



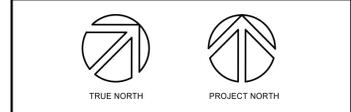
1 LEVEL 1 - LIFE SAFETY AND EGRESS
A002 Scale: 1 : 150



Building Occupant Load Calculation

| Room | Area (sm) | sm/person | Occupancy | Basis |
|------------------------------------|-----------|-----------|-------------|-----------|
| 100V Vestibule | 6.27 | - | - | T3.1.17.1 |
| 100K Corridor | 37.31 | - | - | " |
| 125K Corridor | 26.81 | - | - | " |
| 115 Lounge | 34.12 | 1.85 | 19 | " |
| 102 Teaching Classroom | 82.25 | 1.85 | 45 | " |
| 110 Forensics Garage (school shop) | 43.29 | 4.6 | 5 | " |
| 111 Lab | 13.27 | 4.6 | 3 | " |
| 112 Teaching Lab | 24.05 | 4.6 | 10 (actual) | " |
| 101 Office | 11.62 | 9.3 | 2 (actual) | " |
| 105 Univ. WC | 8.65 | - | - | " |
| 107 Custodial | 9.65 | - | - | " |
| 109 LAN | 11.23 | - | - | " |
| 120 Mech / Elec | 26.07 | 46 | 1 | " |
| 106 + 108 Washrooms | 31.57 | - | - | " |
| 121 AV Grad Support (lab) | 32.75 | 4.6 | 8 | " |
| 122 AV Garage (lab) | 72.75 | 4.6 | 16 | " |
| 123 Flex Support (lab) | 32.75 | 4.6 | 8 | " |
| 124 Flex Garage (lab) | 72.75 | 4.6 | 16 | " |
| 125 MP Space (classroom) | 61.62 | 1.85 | 34 | " |
| 127 Floating Office | 11.94 | 9.3 | 2 (actual) | " |
| 126 Drone Research Lab | 114.26 | 4.6 | 24 | " |
| 220 Mech / Elec | 82.67 | 46 | 2 | " |
| Total | | | 203 | |

| Item | Ontario 2012 Building Code Data Matrix Part 3 | OBC Reference (Part 6 u.n.o) |
|------|---|--|
| 1 | Project Description: New single storey research lab and classroom building. Major Occupancies: A2 (classroom and research offices) F3 (teaching and research labs / storage garage) 1hr FRR separation between areas of A2 and F3 occupancies | Part 3 1.1.2. (A) |
| 2 | Building Area (sm) Existing: 0 New: 857 (sm) Total: 857 sm Gross Area Existing: 0 New: 944 (sm) Total: 944 sm | 1.4.1.2. (A) 1.4.1.2. (A) |
| 3 | Number of Storeys Above grade: 2 Below grade: 0 | 1.4.1.2. (A) & 3.2.1.1. |
| 4 | Building Height (m) 6.2m | 3.2.2.10. & 3.2.5. |
| 5 | Number of Streets/Fire Fighter Access - 2 | 3.2.2.25 |
| 6 | Building Classification - 3.2.2.25 (A2) Building contains multiple major occupancies of A2 and F3. Requirements for most restrictive major occupancy shall apply. | 3.2.2.25 3.2.2.78 (3.2.2.6) |
| 7 | Sprinkler System Proposed Sprinkler system is not required per building classification. Sprinkler system proposed. Roof is not rated and combustible. Sprinkler system proposed in lieu of roof rating required by 3.2.2.25 as permitted by 3.2.2.17. | 3.2.2.25 3.2.2.78 3.2.2.17 |
| 8 | Standpipe required Yes No Fire Alarm required Yes No Water Service/Supply is Adequate Yes No | 3.2.9. 3.2.4. 3.2.5.7 (1),(2) |
| 9 | High Building Yes No | 3.2.6 |
| 10 | Construction Restrictions Actual Construction Combinable permitted Non-combustible req'd Both Combinable Non-combustible Both | 3.2.2.25. 3.2.2.78 |
| 11 | Importance Category Low Low human occupancy Post-disaster shelter Normal High Minor storage building Explosive or hazardous substances Post-disaster | 4.1.2.1.(3) & T4.1.2.1.B |
| 12 | Seismic Hazard Index (IE Fa Sa (0.2)) = 0.219 Seismic design required for Table 4.1.8.18. Items 6 to 21: ((IE Fa Sa (0.2)) ≥ 0.35 or Post-disaster) No Yes | 4.1.2.1.(3) 4.1.8.18.(1) |
| 13 | Occupant load based on sm/person design of building Total occupant load: 203 people Refer to Building Occupant Load Calculation Table | 3.1.17. 11.4.2.2 T3.1.17.1 |
| 14 | Barrier-free Design Yes No (Explain) | 3.8. |
| 15 | Hazardous Substances Yes No | 3.3.1.2. & 3.3.1.19. |
| 16 | Required Fire Resistance Rating (FRR) Horizontal Assemblies FRR (Hours) Floor / ceiling at electrical room, 1hr. Roof 45min Vertical Assemblies FRR (Hours) A2 / F3 separation between teaching spaces and laboratory or storage garage spaces, 1hr. Electrical room, 1hr. Custodial room, 0hr. Fire compartmentalization (for limiting distance calculations), 1hr. Exterior wall construction (east and part south), 1hr. | 3.2.2.25 3.2.2.78 3.2.2.25 3.6.2.1 3.2.2.25, 3.2.2.17 3.1.3.1 3.6.2.1 3.3.1.20 3.2.3.2 3.2.3.7 |
| 17 | Spatial Separation, Construction of Exterior Walls Building Face EBF area (sm) Area of Unprotected Openings Proposed (%) Area of Unprotected Openings Permitted (%) Limiting Distance (m) Available Construction of Exposing Building Face North 235.4 24.2% (57.0sm) 100% >9m available No rating East 116.70 0% 0% 0m available 1hr FRR Non-Combustible Construction Non-Combustible Cladding. Fire rated, non combustible IMP provided Sprinkler protected glazing. | 3.2.3.1, T3.2.3.10 T3.2.3.18 3.2.3.7 T3.2.3.7 |
| 18 | Analysis of spatial separation for east face at fire compartment facing adjacent building: Existing facing building is F3 laboratory (Paleomagneton lab) Exposing fire compartment in existing building has EBF of 67sm, and UPO of 28sm (42%) LD required for existing building is 6.3m (T3.2.3.1.B, extrapolated) Distance between new and existing buildings is 6.3m 0m LD for new building = 0% permitted UPO (T3.2.3.1.D) | |
| 19 | South 1 202.15 25.28% (51.11sm) 100% >9m available No rating South 2 68.64 12.65% (8.68sm) 16% 1.5m available 1hr FRR Non-Combustible Construction Non-Combustible Cladding. Fire rated, non combustible IMP provided | Combinable Construction permitted Combinable Cladding permitted |
| 20 | Analysis of spatial separation for south face at fire compartment facing adjacent building: Proposed building is separated into fire compartments for application of spatial separation calculations (3.2.3.2) Existing facing building is F3 storage garage (Grounds building) Exposing fire compartment in existing building has EBF of 6144sm, and UPO of 97sm (67.5%) LD required for existing building is 11m (T3.2.3.1.B) Distance between new and existing buildings is 12.6m 1.6m available LD for new building at fire compartment 2 = 16% permitted UPO (T3.2.3.1.D) | |
| 21 | West 116.70 15.5% (17.39sm) 100% >9m available 45m FRR Plumbing Fixture Requirements Total building occupant load (calculated), 203 people 102 male / 102 female Required fixtures: 1 male, 2 female. 1 fixture for each 75 females. 1 fixture for each 100 males. Fixtures provided: 3 male, 3 female + 1 universal = 4 male, 4 female effective. | 3.7.4.3 (15) 3.7.4.2 (7) |
| 22 | Egress and Exiting Building is sprinklered. Rooms within suite are F3 and A2 occupancy. Each room requires one means of egress based on room area (under 200m for A2, under 300m for F3). Travel distance to exit > 45m from all areas. | 3.3.1.5, T3.3.1.5(B) 3.4.2.5 |
| 23 | Energy Efficiency Energy Cost Budget Method. National Energy Code of Canada for Buildings 2015, as modified by OBC SB-10 Chapter 3. Refer to NECB Compliance Workbook and Energy Modelling Report. | SB-10 |



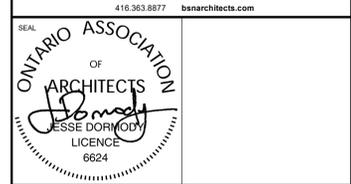
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CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
LIFE SAFETY AND CODE MATRIX

architects
Baird Sampson Neuert



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| | |
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| SCALE: 1 : 150 | SHEET NO: A002 |
| DATE: 06/16/20 | |
| PROJECT NO: 2301 | |
| DRAWN BY: Author | |
| CHECKED BY: Checker | |

ASSEMBLIES

WALL ASSEMBLIES

W1: INSULATED METAL PANEL WITH PUR FOAM INSULATION

152 mm (6") INSULATED METAL PANEL VERTICAL ORIENTATION
 PREFINISHED GALVANIZED SHEET METAL FINISH ON BOTH SIDES
 DOUBLE SEAL INTEGRATED JOINT.
 EFFECTIVE R-VALUE: 45 hr-ft²-°F/Btu MINIMUM
 HORIZONTAL GALVANIZED STEEL Z-GIRTS. REFER TO STRUCTURAL **BY OTHER**

38mm VERTICAL GALVANIZED STEEL FURRING @ 450mm o.c.
 15.9 mm PAINTED GYPSUM WALL BOARD WHERE INDICATED. (TO APPROX 3450MM AFF) ABUSE-RESISTANT TO 1220 AFF.

REFER TO ELEVATION LEGEND FOR FINISH TYPE / COLOUR OF IMP

W1A: INSULATED METAL PANEL WITH MINERAL FIBRE INSULATION

1 HR FRR (ULC S101; INTERTEK DESIGN NO. KIP/CWP 180-01).
 1 HR FRR FROM INTERIOR SIDE PER OBC SB-2.
 NON COMBUSTIBLE (ULC S114)

152 mm (6") INSULATED METAL PANEL WITH MINERAL FIBRE CORE. VERTICAL ORIENTATION
 PREFINISHED GALVANIZED SHEET METAL FINISH ON BOTH SIDES
 DOUBLE SEAL INTEGRATED JOINT.
 EFFECTIVE R-VALUE: 24 hr-ft²-°F/Btu MINIMUM
 HORIZONTAL GALVANIZED STEEL Z-GIRTS **BY OTHER**

125mm MINERAL FIBRE RIGID INSULATION
 38mm VERTICAL GALVANIZED STEEL FURRING
 2 LAYERS 15.9 mm TYPE X PAINTED GYPSUM WALL BOARD FULL EXTENT OF INTERIOR FACE. ABUSE-RESISTANT TO 1220mm AFF

W1 IMP FINISH TYPES:

IMP1: METALLIC MEDIUM GREY
 IMP2: DARK / CHARCOAL GREY
 IMP3: METALLIC COPPER/ORANGE

W2: CONCRETE FOUNDATION WALL

100mm EXTRUDED POLYSTYRENE RIGID INSULATION
 12mm CONCRETE FACE FINISH ON UPPER 600mm OF INSULATION.
 10mm FLEECE LINED DRAINAGE BOARD
 SELF ADHERED WATERPROOFING MEMBRANE
 CONCRETE FOUNDATION WALL (REFER TO STRUCTURAL)

W2A: CANOPY FOUNDATION WALL

CONCRETE FOUNDATION WALL (REFER TO STRUCTURAL) **BY OTHER**

W3: CANOPY FIN WALL

4MM PREFINISHED ALUMINUM COMPOSITE PANEL WITH CONCEALED JOINT FASTENERS
 (30MM TOTAL SYSTEM DEPTH)
 VAPOUR PERMEABLE SELF ADHERED WATER SHEDDING AIR BARRIER MEMBRANE
 16MM EXTERIOR GRADE PLYWOOD
 125MM GALVANIZED ENGINEERED STEEL STUDS

STRUCTURAL GALVANIZED HSS POSTS **BY OTHER**

16MM EXTERIOR GRADE PLYWOOD
 VAPOUR PERMEABLE SELF ADHERED WATER SHEDDING AIR BARRIER MEMBRANE
 4MM PREFINISHED ALUMINUM COMPOSITE PANEL WITH CONCEALED JOINT FASTENERS
 (30MM TOTAL SYSTEM DEPTH)

ROOF ASSEMBLIES

R1: INSULATED METAL PANEL ROOF

INSULATED METAL PANEL SYSTEM WITH STANDING SEAM PROFILE (IMP-4) ON PURLINS
 (REFER TO STRUCTURAL DOCUMENTS FOR SIZES AND SPACING)

EFFECTIVE R-VALUE: 45 hr-ft²-°F/Btu MINIMUM **BY OTHER**

R2: CANOPY ROOF

LIQUID APPLIED PMMA ROOF MEMBRANE
 7MM SBS BASE SHEET ROOFING PANEL
 16MM EXTERIOR GRADE PLYWOOD SHEATHING
 GALVANIZED STEEL JOIST FRAMING AT 450MM O.C. MAX

GALVANIZED STRUCTURAL STEEL BEAMS WITH THERMAL BREAK **BY OTHER**

CANOPY SOFFIT ASSEMBLY AS NOTED

GLAZING ASSEMBLIES

G1: ALUMINUM CURTAIN WALL GLAZING, TRIPLE-GLAZED INSULATED GLAZING UNITS

134mm MULLION BODY DEPTH ALUMINUM CURTAIN WALL FRAMING
 2 SIDED STRUCTURAL SILICONE GLAZING (SSG)
 TRIPLE GLAZED INSULATED GLASS UNIT (GL1)

G1A: ALUMINUM STOREFRONT GLAZING, SINGLE GLAZED AT VESTIBULE INTERIOR

115mm MULLION BODY DEPTH ALUMINUM STOREFRONT GLAZING
 MIN 6mm TEMPERED GLASS (GL4)

G2: FIRE RATED CURTAIN WALL GLAZING (1hr FRR)

THERMALLY BROKEN FIRE RATED STEEL CURTAIN WALL FRAMING
 FIRE RATED INSULATED GLAZING UNIT (GL2)

GP1: INTERIOR GLAZED HOLLOW METAL SCREEN

38mm FACE WIDTH PAINTED HOLLOW METAL FRAMING
 MIN 6mm TEMPERED GLASS (GL4)

GP2: INTERIOR FIRE-RATED GLAZED HOLLOW METAL SCREEN (1HR FRR)

38mm FACE WIDTH FIRE RATED PAINTED HOLLOW METAL FRAMING
 MIN 6mm TEMPERED GLASS (GL5)

GP3: INTERIOR ALUMINUM FRAMED GLAZED SCREEN

ALUMINUM FRAMED INTERIOR SCREEN
 MIN 6mm TEMPERED GLASS (GL4)
 SILICONE BUTT JOINTS AT ALL VERTICAL PANEL JOINTS

GLAZING TYPES

GL1: TRIPLE GLAZED INSULATED GLAZING UNIT (45mm NOMINAL)

CERAMIC FRIT BIRD FRIENDLY MARKERS SURFACE 2 (5mm DOTS, 75mm SPACING, 45° ROTATION)
 LOW-E COATING SURFACE 3 AND 5
 SHGC: ≤ 0.3
 U-VALUE: ≤ 0.12 Btu/ft²-hr-ft² CENTER OF GLASS

GL1A: DOUBLE GLAZED INSULATED GLAZING UNIT

CERAMIC FRIT BIRD FRIENDLY MARKERS SURFACE 2 (5mm DOTS, 75mm SPACING, 45° ROTATION)
 LOW-E COATING SURFACE 3

GL2: FIRE RATED INSULATED GLAZING UNIT (57mm NOMINAL)

GL3: FIRE RATED IMPACT SAFETY RATED MONOLITHIC GLAZING UNIT (27mm NOMINAL)

GL4: CLEAR TEMPERED GLASS (MIN. 6mm OR AS INDICATED)

GL5: FIRE RATED IMPACT SAFETY RATED GLAZING (55mm NOMINAL)

FLOOR ASSEMBLIES

F1: CONCRETE FLOOR SLAB

100mm REINFORCED CONCRETE SLAB ON GRADE. (REFER TO STRUCTURAL)
 15mm BELOW SLAB POLYETHYLENE VAPOUR BARRIER
 50mm BELOW SLAB RIGID INSULATION
 MIN 200mm CLEAR CRUSHED STONE (20mm)

F2: MECHANICAL MEZZANINE FLOOR

POURED CONCRETE ON COMPOSITE STEEL DECK. REFER TO STRUCTURAL

CEILING ASSEMBLIES

C1: 16MM GYPSUM BOARD CEILING

PAINTED 16MM GYPSUM CEILING PANEL
 75mm ACOUSTIC MINERAL WOOL BATT INSULATION
 METAL CEILING FRAMING AS REQUIRED

C1A: HORIZONTAL MEMBRANE CEILING

1HR FRR OBC SB2.2.3.4, TABLE 2.3.4.B, T 2.3.5
 (2) LAYER 16MM TYPE X GWB
 38MM METAL FRAMING AT MAXIMUM 610mm O.C. 110MM OVERLAP AT JOINTS. 15MM CLEARANCE AT ENDS
 FLOOR MEMBRANE ABOVE MIN 50MM CONCRETE ON FORMED STEEL SHEET (REFER TO FLOOR ASSEMBLY)

C2: ACOUSTIC BAFFLES

9" DEEP ACOUSTIC BAFFLES SPACED 18" OC ON CABLE SUSPENSION SYSTEM

S1: CANOPY SOFFIT

4MM PREFINISHED ALUMINUM COMPOSITE PANEL WITH CONCEALED JOINT FASTENERS
 (30MM TOTAL SYSTEM DEPTH)
 VAPOUR PERMEABLE SELF ADHERED WATER SHEDDING AIR BARRIER MEMBRANE
 16MM EXTERIOR GRADE PLYWOOD SUBSTRATE SECURED TO CANOPY FRAMING.
 CANOPY ROOF ASSEMBLY ABOVE.

PARTITION ASSEMBLIES

P1: GYPSUM WALL BOARD PARTITION

16mm PAINTED GYPSUM WALL BOARD.
 92mm STEEL STUDS @ 450mm o.c. MAX
 89 mm MINERAL WOOL BATT INSULATION
 16mm PAINTED GYPSUM WALL BOARD.

P1A: GYPSUM WALL BOARD PARTITION

1HR F.R.R. (ULC W453)

16mm PAINTED GYPSUM WALL BOARD
 92mm STEEL STUDS @ 450mm o.c. MAX
 89 mm MINERAL WOOL BATT INSULATION
 16mm PAINTED GYPSUM WALL BOARD.

P2: GYPSUM WALL BOARD PARTITION

16mm PAINTED GYPSUM WALL BOARD.
 152mm STEEL STUDS @ 450mm o.c. MAX
 152 mm MINERAL WOOL BATT INSULATION
 16mm PAINTED GYPSUM WALL BOARD.

P2A: GYPSUM WALL BOARD PARTITION

1HR F.R.R. (ULC W453)

16mm PAINTED GYPSUM WALL BOARD.
 152mm STEEL STUDS @ 450mm o.c. MAX
 152 mm MINERAL WOOL BATT INSULATION
 16mm PAINTED GYPSUM WALL BOARD.

PARTITION NOTES

- ALL GYPSUM BOARD PARTITIONS ARE TO BE CONSTRUCTED USING ABUSE RESISTANT GYPSUM BOARD UP TO 1220mm ABOVE FINISHED FLOOR.
- USE WATER RESISTANT GYPSUM BOARD ON PARTITIONS AT SINKS AND WATER FOUNTAINS UNLESS NOTED OTHERWISE.
- REPLACE GYPSUM BOARD WITH GLASS MAT TILE BACKER BOARD AT WALL TILE FINISH (WF1) AND FIBRE REINFORCED PLASTIC WALL PANEL (WF2) FINISH LOCATIONS WHERE INDICATED.
- ALL FIRE RATED GYPSUM BOARD PARTITIONS SHOWN ON FIRE & LIFE SAFETY PLANS ARE TO EXTEND FROM TOP SLAB TO THE UNDERSIDE OF STRUCTURAL FLOOR SLAB OR INSULATED METAL PANEL ROOF PANELS ABOVE UNLESS NOTED OTHERWISE.
- ALL FIRE RATED AND ACOUSTIC GYPSUM BOARD PARTITIONS ARE TO USE TYPE 'X' GYPSUM BOARD.
- REFER TO ENGINEERING JUDGMENT FIRE STOP DETAIL 646436A FROM HILTI FOR REQUIREMENTS FOR CONTINUITY OF FIRE SEPARATION AT INTERIOR FIRE RATED PARTITIONS MEETING EXTERIOR INSULATED METAL PANEL ROOF AND WALL ASSEMBLIES.
- GYPSUM WALLBOARD TO BE CONTINUOUS TO UNDERSIDE OF FLOOR/ROOF ABOVE ON BOTH SIDES OF PARTITION UNLESS OTHERWISE NOTED.

ENGINEERING JUDGMENT FIRESTOP DETAIL THIS ENGINEERING JUDGMENT REPRESENTS A FIRESTOP SYSTEM THAT WOULD BE EXPECTED TO PASS THE STATED RATINGS IF TESTED

PROJECT : UTM PRE-ENGINEERED BUILDING
 ADDRESS : 3265 PRINCIPAL'S ROAD, MISSISSAUGA , ONTARIO L5L 1C6
 ISSUED TO : BSN ARCHITECTS

Rating: F-RATING = 1-HR. (SEE NOTE NO. 4 BELOW)

1. INSULATED METAL ROOF ASSEMBLY (NON-RATED).
2. STEEL PURLIN (MIN. 16 GA.) (NON-RATED).
3. GYPSUM WALL ASSEMBLY (ULCUL CLASSIFIED) WITH MINIMUM 3-1/2\"

NOTES :

- MAXIMUM WIDTH OF JOINT = 1/2".
- ANNULAR SPACE = MINIMUM 0", MAXIMUM 1".
- [NOT SHOWN] WHEN ANNULAR SPACE IS 0", APPLY MINIMUM 1/2" BEAD HILTI CP 606 FLEXIBLE FIRESTOP SEALANT AT POINT OF CONTACT.
- FIRE-RATING OF ASSEMBLY IS DEPENDENT UPON THE PERFORMANCE OF PURLIN AND ROOF ASSEMBLY UNDER FIRE CONDITIONS.

Referenced Tested Systems
 (REFERENCE : UL/CUL SYSTEM NO. HW-D-0164, HW-D-0209, W-L-1297, & W-L-7130; UL SYSTEM NO. C-J-D-0004)

Project Application Details
 CS0251427

Applicable Test Method
 CANULC S115-23

HILTI, Inc.
 Plano, Texas USA (800) 879-8000

Designed by Hilti FFE
 Austin Griffith

Sheet 1 of 1
 Scale 5/32" = 1"
 Date Sep. 03, 2024

Drawing No. 646436a

Saving Lives through Innovation and Education

ABBREVIATIONS

| | | | |
|-------|--|----------|---|
| ACT | ACOUSTIC CEILING TILE | INSUL | INSULATION or INSULATED |
| AFF | ABOVE FINISHED FLOOR | KP | KICK PLATE |
| ALT | ALTERNATE | LAB | LABORATORY |
| ASTM | AMERICAN SOCIETY FOR TESTING AND MATERIALS | LAM | LAMINATE |
| AC | AIR CONDITIONING | LED | LIGHT EMITTING DIODE |
| ALUM | ALUMINUM | m | METRES |
| ARCH | ARCHITECTURAL | MAX | MAXIMUM |
| ASPH | ASPHALT | MDF | MEDIUM DENSITY FIBREBOARD |
| AV | AUDIO-VISUAL | MECH | MECHANICAL |
| BD | BOARD | MEZZ | MEZZANINE |
| BLDG | BUILDING | MIN | MINIMUM |
| CB | CATCH BASIN | MIR | MIRROR |
| CFM | CUBIC FEET PER MINUTE | MISC | MISCELLANEOUS |
| CG | CORNER GUARD | mm | MILLIMETER |
| CGSB | CANADIAN GENERAL STANDARD BOARD | N | NORTH |
| CJ | CONTROL JOINT | ND | NAPKIN DISPOSAL |
| Cm | CENTIMETER | NIC | NOT IN CONTRACT |
| CONC | CONCRETE | NFPA No. | NATIONAL FIRE PREVENTION ASSOCIATION NUMBER |
| CORR | CORRIDOR | NOM | NOMINAL |
| CR | CARD READER | NTS | NOT TO SCALE |
| CT | CERAMIC TILE | OA | OVERALL |
| CL | CENTRE LINE | OBC | ONTARIO BUILDING CODE |
| COL | COLUMN | OC | ON CENTRE |
| CONT | CONTINUOUS | O/H | OVERHEAD |
| CSA | CANADIAN STANDARDS ASSOCIATION | PTN | PARTITION |
| CTR | CENTRE | PCONC | PRECAST CONCRETE |
| C/W | COMPLETE WITH | PL | PLATE |
| DIA | DIAMETER | PLAM | PLASTIC LAMINATE |
| DIM | DIMENSION | PLYWD | PLYWOOD |
| DO | DOOR OPENER / PUSH BUTTON | PTD | PAINT |
| DWG | DRAWING | POL | POLISHED |
| E | EAST | PTD | PAINT |
| EA | EACH | PUR | POLYURETHANE |
| ELEV | ELEVATION | PVC | POLYVINYL CHLORIDE |
| ELEC | ELECTRIC(AL) | R | RADIUS |
| ENCL | ENCLOSURE | RCP | REFLECTED CEILING PLAN |
| ENG | ENGINEER | RD | ROOF DRAIN REINFORCE |
| EQ | EQUAL | REQ'D | REQUIRED |
| EXP | EXPOSED | RESIL | RESILIENT |
| EXT | EXTERIOR | REV | REVISION |
| FA | FIRE ALARM | RM | ROOM |
| FACP | FIRE ALARM CONTROL PANEL | RO | ROUGH OPENING |
| FAS | FIRE ALARM STATION | RWL | RAIN WATER LEADER |
| FB | FLOOR BOX | S | SOUTH |
| FD | FLOOR DRAIN | SD | SCHEDULE |
| FDN | FOUNDATION | SD | SOAP DISPENSER |
| FE | FIRE EXTINGUISHER | SECT | SECTION |
| FEC | FIRE EXTINGUISHER CABINET | SHT | SHEET |
| FF | FINISH FLOOR | SIM | SIMILAR |
| FF | FIRE HYDRANT | SP | STANDPIPE |
| FHC | FIRE HOSE CABINET | SPEC | SPECIFICATION |
| FIN | FINISHED | SQ | SQUARE |
| FTG | FOOTING | SS | STAINLESS STEEL |
| F.R. | FIRE RATED | STD | STANDARD |
| FRR | FIRE RESISTANCE RATED | STL | STEEL |
| FURR | FURRING | STRUCT | STRUCTURAL |
| GA | GAUGE | TB | TACK BOARD |
| GAL | GALVANIZED | TEL | TELEPHONE |
| GB | GRAB BAR | TEMP. | TEMPERED |
| GEN | GENERATOR | THR | THRESHOLD |
| GF1 | GROUND FAULT INTERRUPTER | T.O. | TOP OF |
| GL | GLASS | TYP | TYPICAL |
| GR | GRADE | UL | UNDERWRITER LABORATORY |
| GWB | GYPSUM WALL BOARD | UNO | UNLESS NOTED OTHERWISE |
| HB | HOSE BIB | U/S | UNDERSIDE |
| HC | HANDICAPPED | UTIL | UTILITY |
| HD | HAND DRYER | VEST | VESTIBULE |
| HM | HOLLOW METAL | W | WEST |
| HORIZ | HORIZONTAL | WC | WATER CLOSET |
| HR | HOOR | WD | WOOD |
| HT | HEIGHT | WPM | WATERPROOF MEMBRANE |
| IGU | INSULATED GLAZING UNIT | WR | WASHROOM |
| IMP | INSULATED METAL PANEL | WS | WEATHERSTRIPPING |

DRAWING ANNOTATIONS

| | |
|--|---------------------------------|
| DRAWING LEGEND | ELEVATION LEGEND |
| FHC FIRE HOSE CABINET C/W FIRE EXTINGUISHER. | GLAZING |
| 101 DOOR NUMBER | TEMP. TEMPERED GLAZING |
| W22 WINDOW NUMBER | IMP 1 - METALIC MEDIUM GREY |
| RWL RAIN WATER LEADER | IMP 2 - CHARCOAL |
| FD FLOOR DRAIN, REFER TO MECH. | IMP 3 - METALIC COPPER / ORANGE |
| FB RECESSED FLOOR BOX, REFER TO ELEC.. | |
| CR CARD READER, REFER TO ELEC. | |
| DO AUTOMATIC DOOR OPERATOR CONTROL, REFER TO ELEC. | |
| OWNER PROCURED FURNITURE | |

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NOTE:
 LOCATIONS AND SIZES OF ANY AND ALL ACCESS PANELS, LIGHTS, SWITCHES, EXIT SIGNS, AND OTHER SUCH DEVICES MUST BE APPROVED BY ARCHITECT PRIOR TO ERECTION OF FRAMING. ALL SUCH ITEMS CAST INTO CONCRETE WALLS OR SLABS MUST SIMILARLY BE APPROVED BEFORE CONCRETE IS POURED.



| No. | ISSUANCE | DATE |
|-----|---------------------------------------|------------|
| 1 | Issued for Class C Costing | 2023-12-06 |
| 2 | Issued for PEB Scope RFP | 2023-12-15 |
| 3 | Issued for 100% SD | 2023-12-21 |
| 4 | Issued for Design Development Costing | 2024-03-28 |
| 5 | Issued for Permit | 2024-11-08 |
| 6 | Issued for Tender | 2024-11-25 |

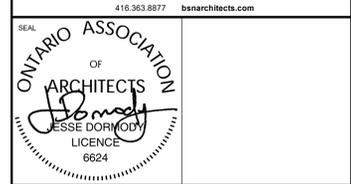
University of Toronto Mississauga

Pre-Engineered Building

3265 Principal's Road, Mississauga, Ontario

ASSEMBLIES, LEGENDS & NOTES

architects
 Baird Sampson Neuter



416.363.8877 bsnarchitects.com

SCALE: As indicated SHEET NO: A003

DATE: 06/16/20

PROJECT NO: 2301

DRAWN BY: Author

CHECKED BY: Checker

| ROOM FINISH SCHEDULE | | | | | | | | | | | |
|----------------------|-----------------------------|--------|--------------|-------------|-------|------|-------|------|----------------|---|---|
| Room Number | Room Name | Area | Floors | | | | Walls | | | | SIGNAGE REQUIREMENTS - REFER TO SIGNAGE PACKAGE |
| | | | Floor Finish | Base Finish | North | East | South | West | Ceiling Finish | | |
| 100K | Corridor | 29 m² | FF-1 | WB-1 | PTD | PTD | PTD | PTD | EXP | | |
| 100V | Vestibule | 6 m² | FF-4 | WB-1 | PTD | PTD | n/a | PTD | C3 | | |
| 101 | Office | 11 m² | FF-3 | WB-1 | PTD | PTD | PTD | PTD | C1 | SIGNAGE: NAME PLATE AND ROOM NUMBER | |
| 102 | Forensic Teaching Classroom | 81 m² | FF-3 | WB-1 | PTD | PTD | PTD | PTD | C2 | SIGNAGE: NAME PLATE AND ROOM NUMBER (WHOLDER FOR ROOM SCHEDULE) | |
| 105K | Corridor | 8 m² | FF-1 | WB-1 | PTD | PTD | PTD | n/a | C1 | SIGNAGE: MAIN DIRECTORY | |
| 106 | Men's Washroom | 15 m² | FF-2 | WB-2 | WF1 | WF1 | PTD | WF1 | C1 | SIGNAGE: NAME PLATE AND ROOM NUMBER | |
| 107 | Custodial | 10 m² | FF-5 | WB-3 | PTD | PTD | PTD | PTD | EXP | SIGNAGE: NAME PLATE AND ROOM NUMBER | |
| 108 | Women's Washroom | 16 m² | FF-2 | WB-2 | WF1 | WF1 | WF1 | WF1 | C1 | SIGNAGE: NAME PLATE AND ROOM NUMBER | |
| 109 | LAN Rm | 11 m² | FF-7 | WB-1 | PTD | PTD | PTD | PTD | EXP | SIGNAGE: NAME PLATE AND ROOM NUMBER | |
| 110 | Forensic Garage | 44 m² | FF-5 | WB-3 | PTD | PTD | WF2 | PTD | EXP | SIGNAGE: NAME PLATE AND ROOM NUMBER | |
| 111 | Lab | 13 m² | FF-5 | WB-3 | PTD | PTD | PTD | PTD | C1 | SIGNAGE: NAME PLATE AND ROOM NUMBER | |
| 112 | Teaching Lab | 24 m² | FF-5 | WB-3 | PTD | PTD | PTD | PTD | C1 | SIGNAGE: NAME PLATE AND ROOM NUMBER | |
| 115 | Lounge | 34 m² | FF-1 | WB-1 | PTD | PTD | PTD | PTD | EXP / C1 | SIGNAGE: NAME PLATE AND ROOM NUMBER | |
| 120 | M&E Room | 26 m² | FF-6 | WB-1 | PTD | PTD | PTD | PTD | EXP | | |
| 121 | AV Grad. Office | 33 m² | FF-1 | WB-1 | PTD | PTD | PTD | PTD | EXP | SIGNAGE: NAME PLATE AND ROOM NUMBER | |
| 122 | AV Garage | 72 m² | FF-5 | WB-1 | PTD | PTD | PTD | PTD | EXP | SIGNAGE: NAME PLATE AND ROOM NUMBER | |
| 123 | Flex Office | 33 m² | FF-1 | WB-1 | PTD | PTD | PTD | PTD | EXP | SIGNAGE: NAME PLATE AND ROOM NUMBER | |
| 124 | Flex Garage | 73 m² | FF-5 | WB-3 | PTD | PTD | PTD | PTD | EXP | SIGNAGE: NAME PLATE AND ROOM NUMBER | |
| 125 | Multipurpose Space | 62 m² | FF-1 | WB-1 | PTD | PTD | PTD | PTD | C2 | SIGNAGE: NAME PLATE AND ROOM NUMBER | |
| 125K | Corridor | 26 m² | FF-1 | WB-1 | PTD | PTD | PTD | PTD | EXP | | |
| 126 | Drone Research Lab | 116 m² | FF-1 | WB-1 | PTD | PTD | PTD | PTD | EXP | SIGNAGE: NAME PLATE AND ROOM NUMBER | |
| 127 | Floating Office | 12 m² | FF-1 | WB-1 | PTD | PTD | PTD | PTD | C1 | SIGNAGE: NAME PLATE | |
| 220 | M&E Room | 63 m² | FF-6 | WB-1 | PTD | PTD | PTD | PTD | EXP | | |

GENERAL NOTE: REFER TO INTERIOR ELEVATIONS FOR EXTENT OF WALL TILE FINISH

FLOOR FINISHES

- FF1 POLISHED CONCRETE FINISH
- FF2 PORCELAIN TILE
- FF3 RESILIENT SHEET FLOORING
- FF4 RESILIENT LOW PROFILE ENTRANCE MATTING
- FF5 EPOXY FLOOR COATING
- FF6 TROWELED SEALED CONCRETE SLAB
- FF7 ANTI STATIC VINYL FLOOR TILE

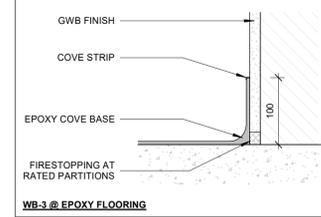
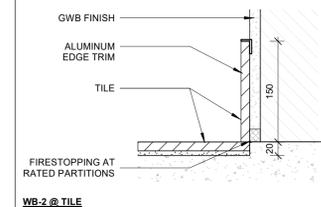
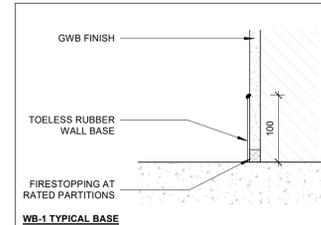
COORDINATE TOP OF SLAB TO ACHIEVE FLUSH SURFACE BETWEEN ADJACENT FLOOR FINISHES.

WALL FINISHES

- WF1 8MM PORCELAIN WALL TILE - FULL HEIGHT TO CEILING UNLESS NOTED OTHERWISE
- WF2 FIBREGLASS REINFORCED WALL PANEL

PAINT FINISHES

- ALL PAINTABLE SURFACES PAINTED PT1 (WHITE) UNLESS NOTED OTHERWISE
- PT1 WHITE
- PT2 FEATURE COLOUR - ORANGE / RED
- PT3 FEATURE COLOUR - DARK BLUE
- PT4 MEDIUM GREY
- PT5 DARK / CHARCOAL GREY

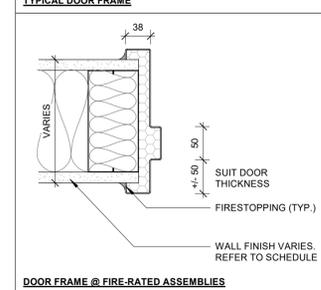
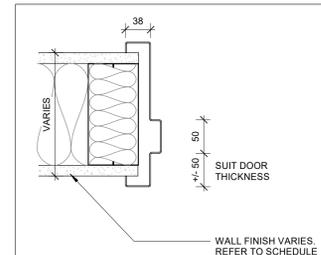


TYPICAL WALL BASE DETAILS

DOOR & SCREEN SCHEDULE

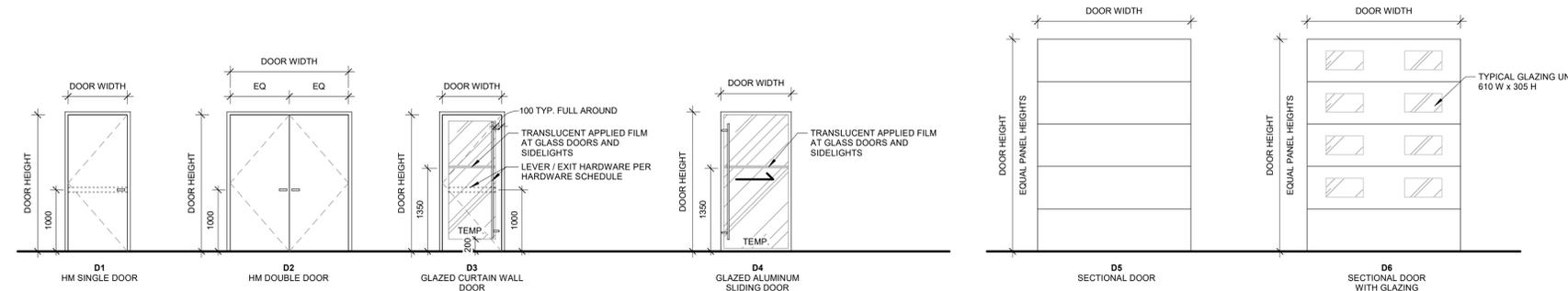
| Door Mark | Location | Width | Height | Door Type / Elev | Material | Finish | Glazing | Frame | | Hardware Schedule Set * | Fire Rating | Insulated / Thermal Break | Notes |
|--------------|-----------------------------|-------|--------|------------------|----------|--------|---------|----------|--------|-------------------------|-------------|---------------------------|-------------------|
| | | | | | | | | Material | Finish | | | | |
| GROUND FLOOR | | | | | | | | | | | | | |
| 100V | Vestibule | 965 | 2240 | D3 | AL | PTD | GL1A | AL | PTD | 9.0 | | No | |
| 101 | Office | 965 | 2240 | D1 | HM | PTD | | HM | PTD | 11.0 | | No | |
| 102 | Forensic Teaching Classroom | 960 | 2229 | D1 | HM | PTD | | HM | PTD | 10.0 | | No | |
| 105 | | 965 | 2132 | D1 | HM | PTD | | HM | PTD | 17.0 | | No | |
| 107 | Custodial | 965 | 2132 | D1 | HM | PTD | | HM | PTD | 15.0 | 0 hr | No | |
| 109 | LAN Rm | 965 | 2132 | D1 | HM | PTD | | HM | PTD | 11.0 | | No | |
| 110 | Forensic Garage | 965 | 2232 | D1 | HM | PTD | | HM | PTD | 12.0 | 3/4 hr | No | |
| 111 | Lab | 965 | 2228 | D1 | HM | PTD | | HM | PTD | 13.0 | | No | |
| 112 | Teaching Lab | 1155 | 2270 | D4 | AL | PTD | GL4 | AL | PTD | 2.0 | | No | ADD BLACKOUT FILM |
| 121 | AV Grad. Office | 965 | 2220 | D3 | HM | PTD | GL4 | HM | PTD | 11.0 | | No | |
| 122 | AV Garage | 965 | 2228 | D1 | HM | PTD | | HM | PTD | 14.0 | 3/4 hr | No | |
| 123 | Flex Office | 965 | 2220 | D3 | HM | PTD | GL4 | HM | PTD | 11.0 | | No | |
| 124 | Flex Garage | 965 | 2228 | D1 | HM | PTD | | HM | PTD | 14.0 | 3/4 hr | No | |
| 125 | Multipurpose Space | 965 | 2240 | D1 | HM | PTD | GL5 | HM | PTD | 10.0 | 3/4 hr | No | |
| 126 | Drone Research Lab | 965 | 2225 | D3 | HM | PTD | GL4 | HM | PTD | 8.0 | | No | |
| 127 | Floating Office | 1620 | 2270 | D4 | AL | PTD | GL4 | AL | PTD | 2.0 | | No | |
| E100V | Vestibule | 965 | 2240 | D3 | AL | PTD | GL1A | AL | PTD | 3.0 | | Yes | |
| E110 | Forensic Garage | 2540 | 3450 | D5 | STL | PTD | | STL | | 1.0 | | Yes | |
| E120 | M&E Room | 2006 | 2240 | D2 | HM | PTD | | HM | PTD | 5.0 | | Yes | |
| E122 | AV Garage | 1016 | 2240 | D3 | AL | PTD | GL1A | AL | PTD | 7.0 | | Yes | |
| E122b | AV Garage | 2540 | 3450 | D6 | STL | PTD | GL1A | STL | | 1.0 | | Yes | |
| E124 | Flex Garage | 1016 | 2240 | D3 | AL | PTD | GL1A | AL | PTD | 7.0 | | Yes | |
| E124b | Flex Garage | 2540 | 3450 | D6 | STL | PTD | GL1A | STL | | 1.0 | | Yes | |
| E125K | Corridor | 1016 | 2240 | D3 | AL | PTD | GL1A | AL | PTD | 4.0 | | Yes | |
| E126 | Drone Research Lab | 1016 | 2240 | D3 | STL | PTD | GL3 | STL | PTD | 6.0 | 1 hr | Yes | |
| E126b | Drone Research Lab | 2540 | 3450 | D6 | STL | PTD | GL1A | STL | | 1.0 | | Yes | |
| MEZZ FLOOR | | | | | | | | | | | | | |
| 220 | M&E Room | 915 | 2134 | D1 | HM | PTD | NONE | HM | PTD | 16.0 | 3/4 hr | No | |

* REFER TO DOOR HARDWARE SCHEDULE INCLUDED IN THE SPECIFICATIONS



TYPICAL INTERIOR DOOR FRAME DETAILS

DOOR TYPE ELEVATIONS



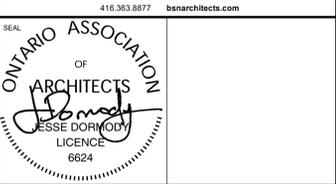
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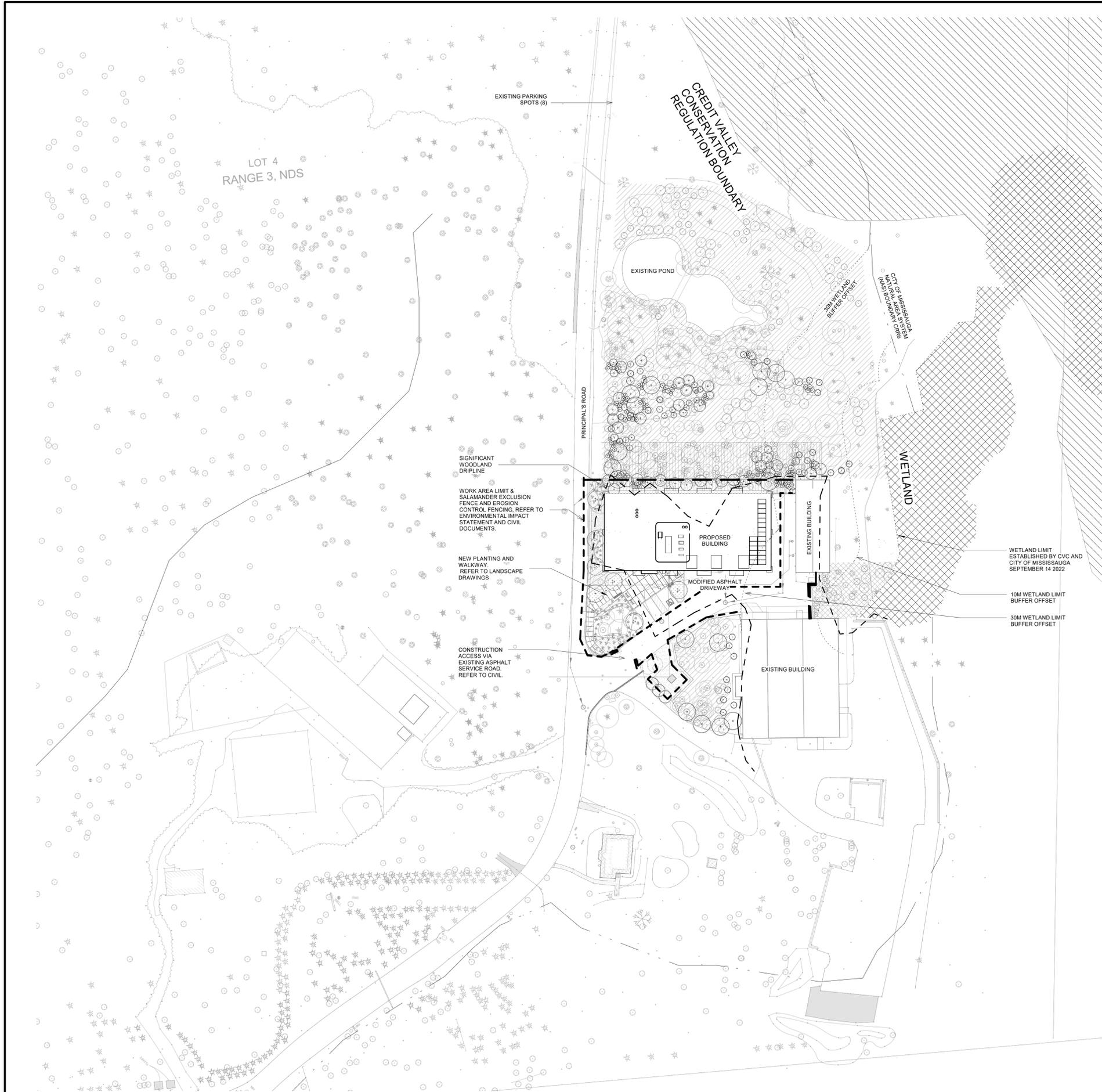
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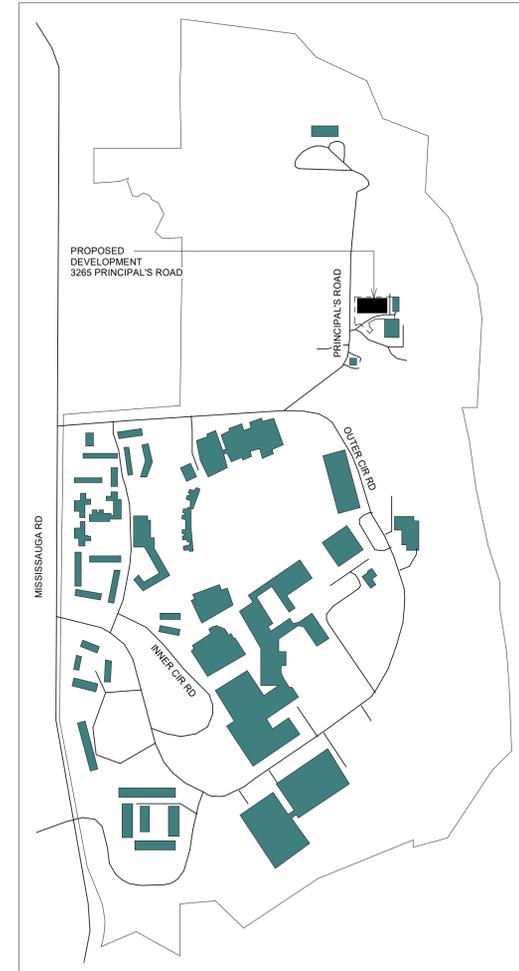


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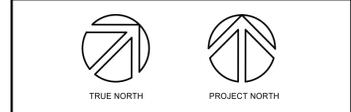
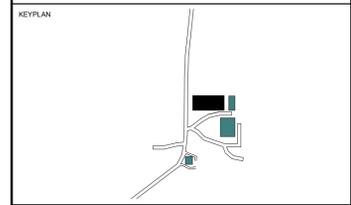


- CONTEXT PLAN LEGEND**
- CREDIT VALLEY CONSERVATION REGULATORY AREA
 - WETLAND AREA
 - WETLAND BUFFER (10m and 30m)
 - WOODLAND DRIPLINE
 - EXISTING
 - BOUNDARY OF PROPOSED WORK



1 100_Context Plan
A100 Scale: 1:500

2 UTM CAMPUS MAP
A100 Scale: NTS



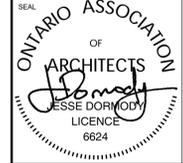
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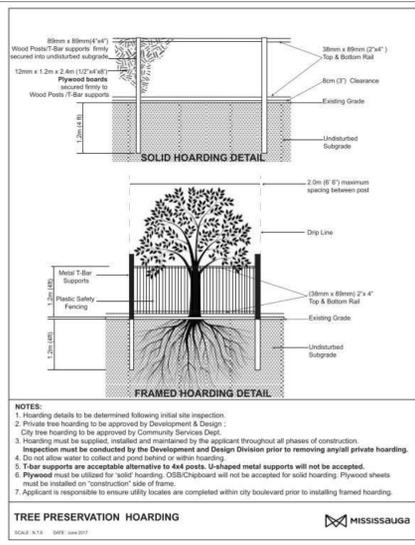
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PROJECT INFORMATION AND ZONING ANALYSIS

PROJECT NAME: UTM PRE-ENGINEERED BUILDING
PROJECT ADDRESS: 3265 PRINCIPAL'S ROAD
CITY IDENTIFIER: 11680600 (Z-24)
LEGAL DESCRIPTION: PT LOTS 3, 5 RANGE 1 NDS, LT 4, PT LOTS 3, 5 RANGE 2 NDS, PT LOTS 3, 4 RANGE 3 NDS, PT BLK M PL 550, PT RDAL B7N RANGE 2 & RANGE 3 NDS - 43R31817 PTS 4-6, 43R-16295 PT 1 SP 21-4 W8 (PREVIOUSLY PAM 20-138 W8)
SPA PROJECT NUMBER:

ZONING ANALYSIS - CITY OF MISSISSAUGA BYLAW 0225-2007

ZONE: I-5 (ZONING MAP 24)
PROPOSED USE: INSTITUTIONAL (UNIVERSITY/COLLEGE), AS PERMITTED
CAMPUS LOT AREA: 897,543.66 m²
DEVELOPMENT AREA OF PROPOSED PROJECT: approx. 2260 m²
COVERAGE OF PROPOSED PROJECT: 863 m²
PROPOSED GROSS FLOOR AREA: Total: 779m²
 Basement: N/A
 Ground floor: 859m² - 38m² - 42m² = 779m² (ground floor - washrooms - Mechanical & Electrical)
 Mechanical mezzanine: 85m² (Not included in GFA)
FLOOR SPACE INDEX: 779m² proposed + 274,884m² existing / 897,543.66m² lot area = 0.307:1
PERMITTED GROSS FLOOR AREA: N/A
PROPOSED BUILDING HEIGHT: 6.20m TOP OF ROOF
 7.80m TOP OF MECHANICAL EQUIPMENT ENCLOSURE
FRONT YARD SETBACK: MEASURED FROM BUILDING TO EDGE OF PRIVATE ROAD
 MIN REQUIRED: 7.50m (N/A - INTERNAL ROADS WITHIN SINGLE CONSOLIDATED PROPERTY)
 PROPOSED: 4.10m
ROOF EAVES ENCROACHMENT: PERMITTED: 0.45m
 PROPOSED: 0.00m (PROPOSED ROOF EDGE 4.10m FROM LOT BOUNDARY AT ROAD)
LANDSCAPED BUFFER: MIN REQUIRED: 4.50m (N/A - INTERNAL LOT BOUNDARY AT ROAD WITHIN SINGLE CONSOLIDATED PROPERTY)
 PROPOSED: 4.10m
PARKING: REQUIRED SPACES: 1.1 SPACE FOR 100m² GFA. 779m²/100m² x 1.1 = 8.57 = 9 SPACES REQUIRED
 PROVIDED: 2 + 1 ACCESSIBLE
 EXISTING 104 SURPLUS SPACES ON CAMPUS - LESS 5 SPACES ON EXISTING SITE = 99 SURPLUS SPACES
 99 SPACES - 6 (PROJECT DEFICIT) = 93 SURPLUS REMAINING
BICYCLE PARKING: EXISTING 359 TOTAL BICYCLE PARKING SLOTS
 PROPOSED: 6 ADDITIONAL BICYCLE PARKING SLOTS (NOT REQUIRED NON-RESIDENTIAL USES LESS THAN 1000M² GFA)



TREE PROTECTION NOTE:
 The applicant is responsible for ensuring that tree protection hoarding is maintained throughout all phases of demolition and construction in the location and condition as approved by the Planning and Building Department. No materials (building materials, soil, etc.) may be stockpiled within the area of hoarding. Failure to maintain the hoarding as originally approved or the storage of materials within the hoarding will be cause for the Letter of Credit to be held for two years following completion of all site works. Hoarding must be inspected prior to the removal of any tree hoarding from the site.
 Owner's Signature: _____
 Date: _____

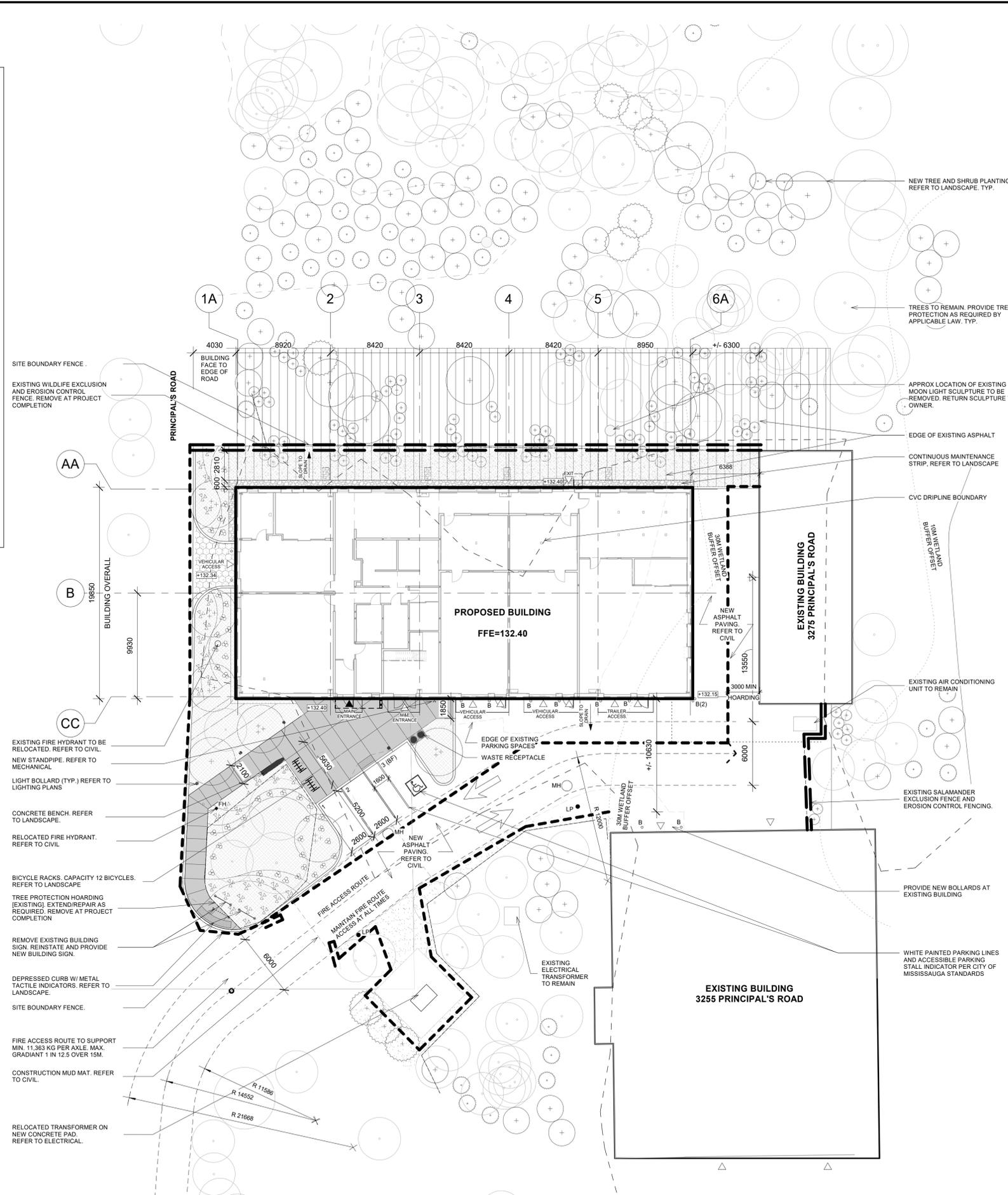
CURB CUTS AND RAMPS:
 If the final course of asphalt paving is delayed, install a temporary lift of asphalt at ramps or curb cuts to provide barrier-free access.

SITE GRADING:
 Refer to Site Grading Plan prepared by MTE Consultants, Drawing CZ.1, Revision 4, for the purposes of obtaining site grading information.
 Prior to commencing construction, all required hoarding, in accordance with the Ontario Occupational Health & Safety Act and Regulations for construction projects, must be erected and then maintained throughout all phases of the project.

- SITE PLAN LEGEND**
- AREA OF WORK BOUNDARY LINE AND SITE BOUNDARY FENCE. REFER TO LANDSCAPE.
 - TREE PROTECTION HOARDING. REFER TO CIVIL.
 - CVC DRIPLINE BOUNDARY
 - WETLAND BUFFER ZONE
 - SALAMANDER EXCLUSION AND EROSION CONTROL FENCING (EXISTING).
 - AREA OF PLANTING. REFER TO LANDSCAPE
 - WOODLAND BUFFER ZONE
 - TURFSTONE PAVING. REFER TO LANDSCAPE
 - CONCRETE PAVING. REFER TO LANDSCAPE
 - STONE MAINTENANCE STRIP. REFER TO LANDSCAPE
 - B CONC. FILLED STEEL BOLLARD
 - MH MANHOLE. REFER TO CIVIL.
 - FH FIRE HYDRANT. REFER TO CIVIL.
 - LP POLE MOUNTED LIGHT FIXTURE.

SITE PLAN NOTES

- GC TO PROVIDE CONTINUOUS CCTV MONITORING OF SITE THROUGHOUT CONSTRUCTION. REFER TO SECURITY.
- SAFE ACCESS TO EXISTING ADJACENT BUILDINGS TO BE MAINTAINED THROUGHOUT CONSTRUCTION.



1 SITE PLAN
 A101 Scale: 1 : 200



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 SITE PLAN

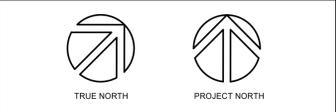
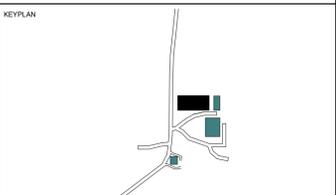
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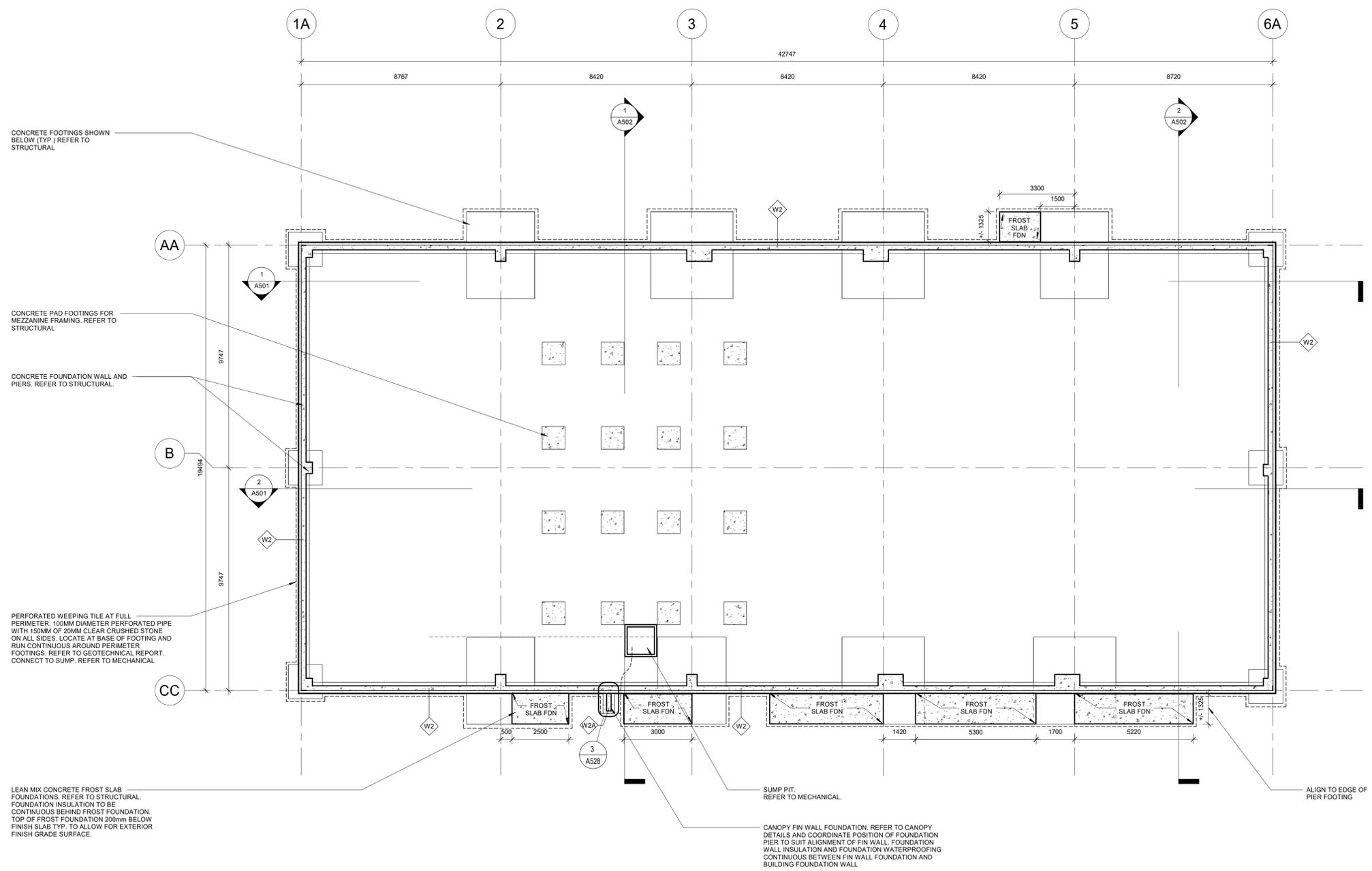
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CONCRETE FOOTINGS SHOWN BELOW (TYP.) REFER TO STRUCTURAL

CONCRETE PAD FOOTINGS FOR MEZZANINE FRAMING. REFER TO STRUCTURAL

CONCRETE FOUNDATION WALL AND PIERS. REFER TO STRUCTURAL

PERFORATED WEeping TILE AT FULL PERIMETER. 100MM DIAMETER PERFORATED PIPE WITH 150MM OF 20MM CLEAR CRUSHED STONE ON ALL SIDES. LOCATE AT BASE OF FOOTING AND RUN CONTINUOUS AROUND PERIMETER FOOTINGS. REFER TO GEOTECHNICAL REPORT. CONNECT TO SUMP. REFER TO MECHANICAL

LEAN MIX CONCRETE FROST SLAB FOUNDATIONS. REFER TO STRUCTURAL. FOUNDATION INSULATION TO BE CONTINUOUS BEHIND FROST FOUNDATION. TOP OF FROST FOUNDATION 500mm BELOW FINISH SLAB TYP. TO ALLOW FOR EXTERIOR FINISH GRADE SURFACE.

SUMP PIT. REFER TO MECHANICAL.

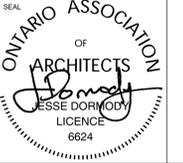
CANOPY FIN WALL FOUNDATION. REFER TO CANOPY DETAILS AND COORDINATE POSITION OF FOUNDATION PIER TO SUIT ALIGNMENT OF FIN WALL. FOUNDATION WALL INSULATION AND FOUNDATION WATERPROOFING CONTINUOUS BETWEEN FIN WALL FOUNDATION AND BUILDING FOUNDATION WALL

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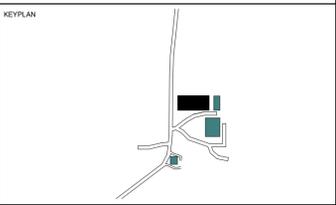
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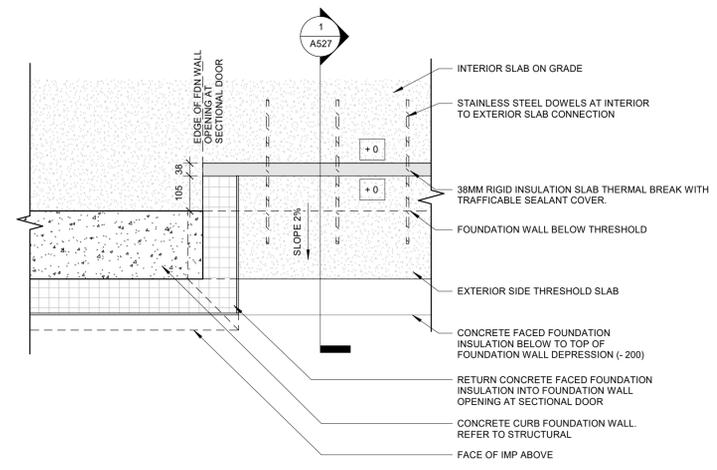
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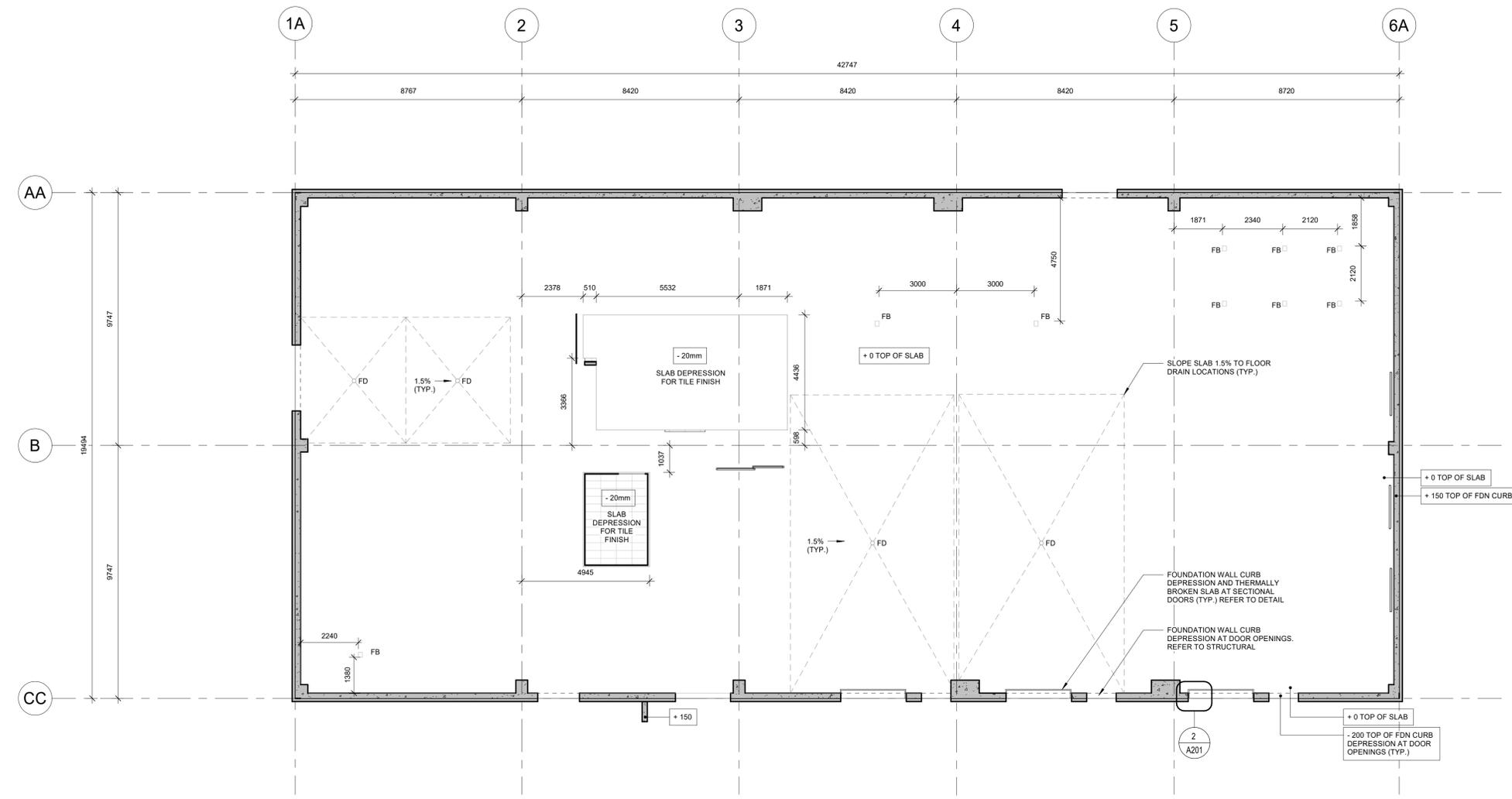
1 FOUNDATION PLAN
A200 Scale: 1 : 100



| No. | ISSUANCE | DATE |
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2 SLAB EDGE DETAIL AT OVERHEAD DOOR
A201 Scale: 1 : 10



1 SLAB EDGE PLAN
A201 Scale: 1 : 100

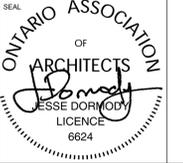
NOTE: WIDTH AND POSITION OF ALL CURB DEPRESSIONS FOR OPENINGS TO BE COORDINATED AND FINALIZED WITH CONSULTANT PRIOR TO PLACING CONCRETE

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SLAB EDGE PLAN

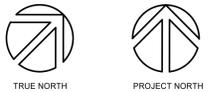
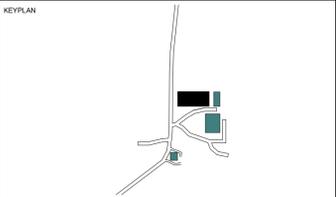
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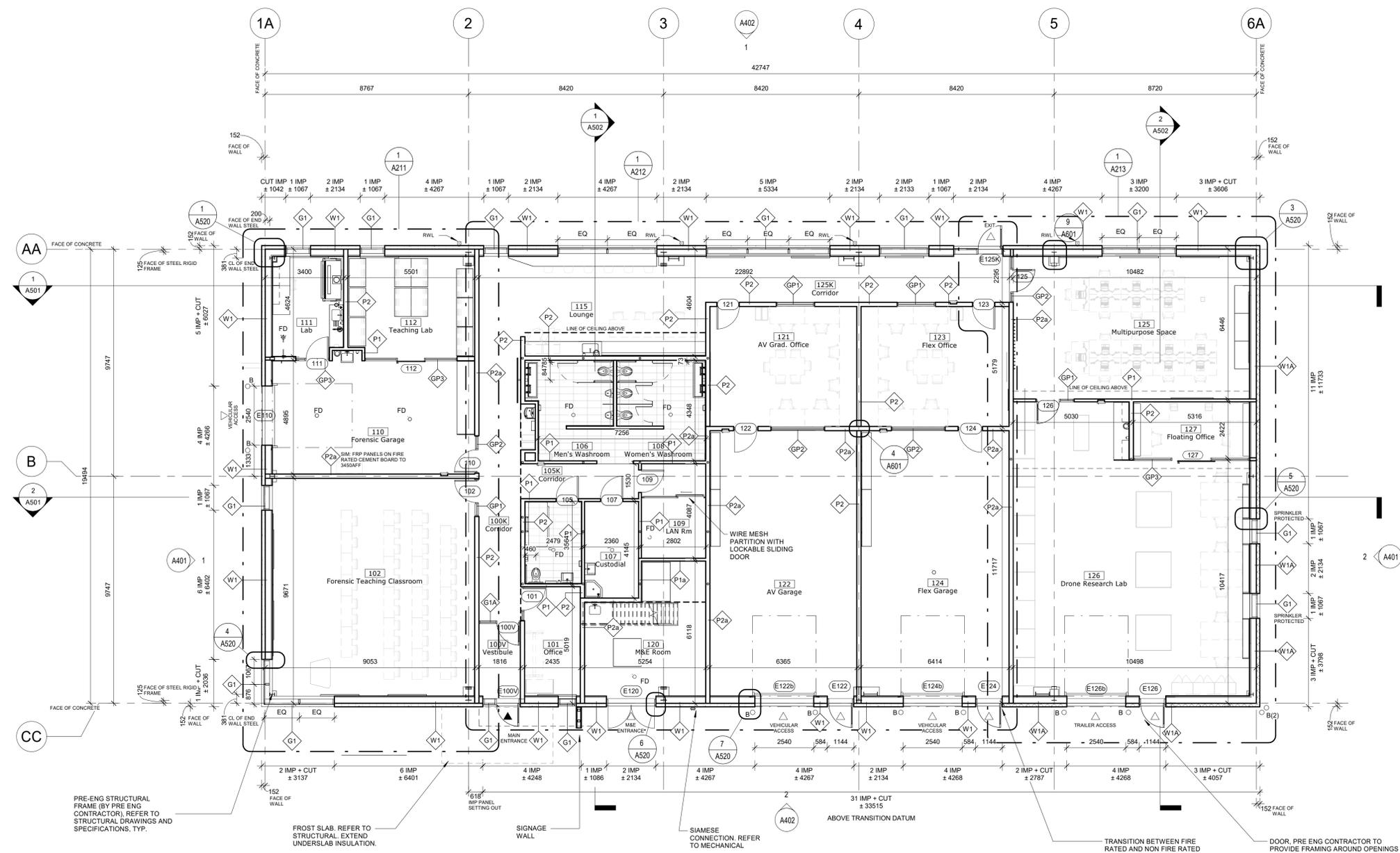
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GENERAL NOTES:
 1. LAYOUT AND DIMENSIONS OF WALL SEGMENTS AND OPENING WIDTHS ARE BASED ON A NOMINAL 1067 (42") INSULATED METAL PANEL MODULE. OWNER'S PRE-ENGINEERED BUILDING CONTRACTOR TO CONFIRM PANEL SIZE, POSITIONING AND WIDTH OF OPENINGS MAY NEED TO BE ADJUSTED IF AN ALTERNATIVE INSULATED METAL PANEL IS USED.
 BASIS OF CONTRACT TO ASSUME 1067mm NOMINAL INSULATED METAL PANEL WIDTH.
 2. ALL DIMENSIONS FOR PARTITIONS ARE TO FACE OF STUD AND FROM GRIDLINE.



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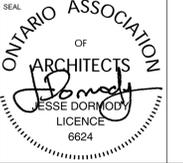
1 GROUND FLOOR PLAN
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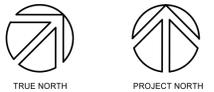
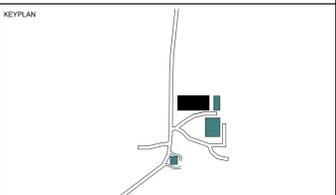
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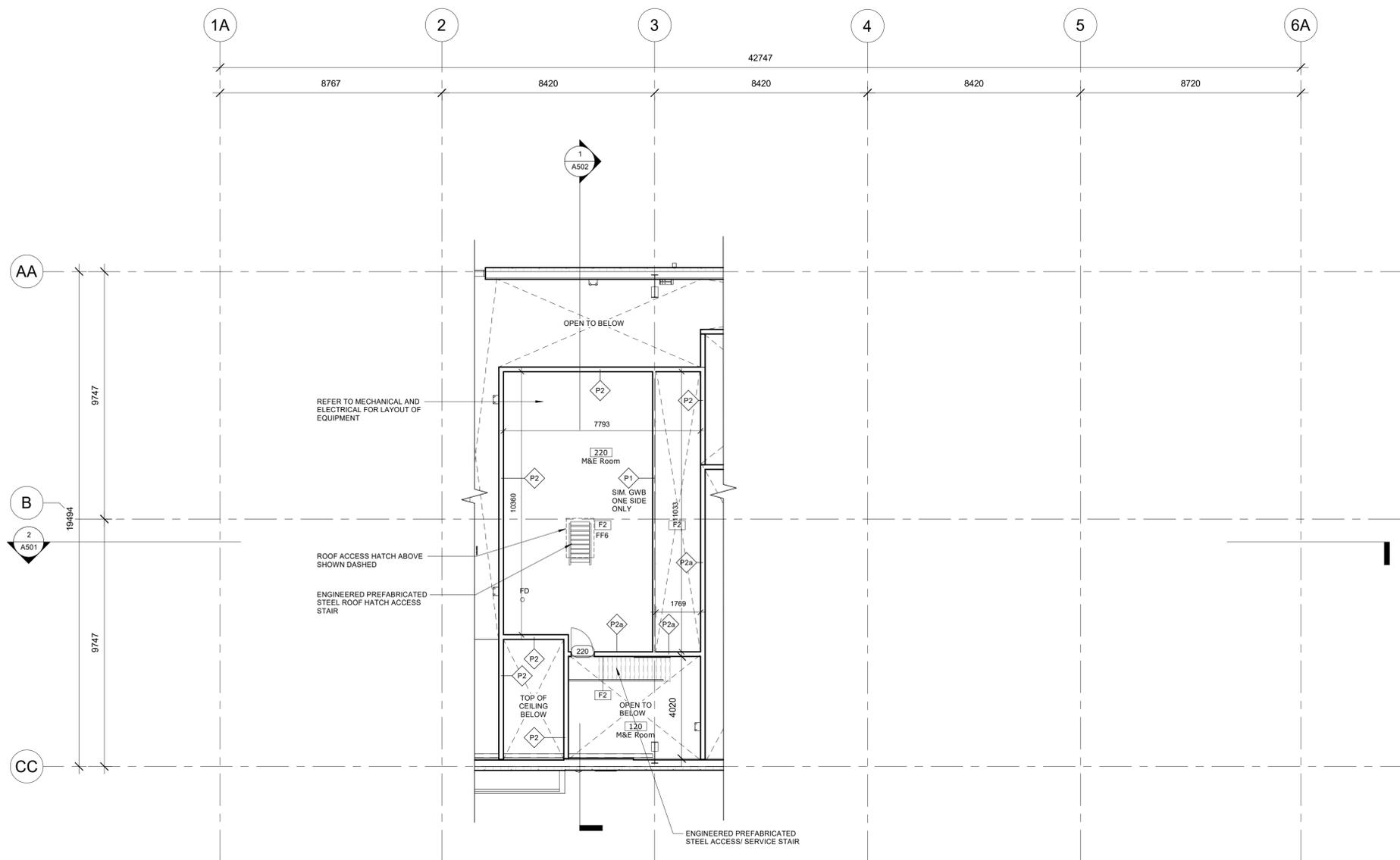


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1 MEZZANINE FLOOR PLAN
A203 Scale: 1 : 100

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3265 Principal's Road, Mississauga, Ontario

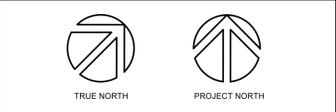
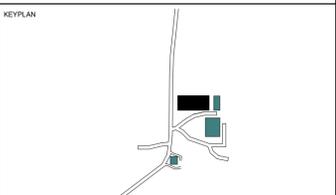
TITLE
MEZZANINE FLOOR PLAN

architects
Baird Sampson Neuert
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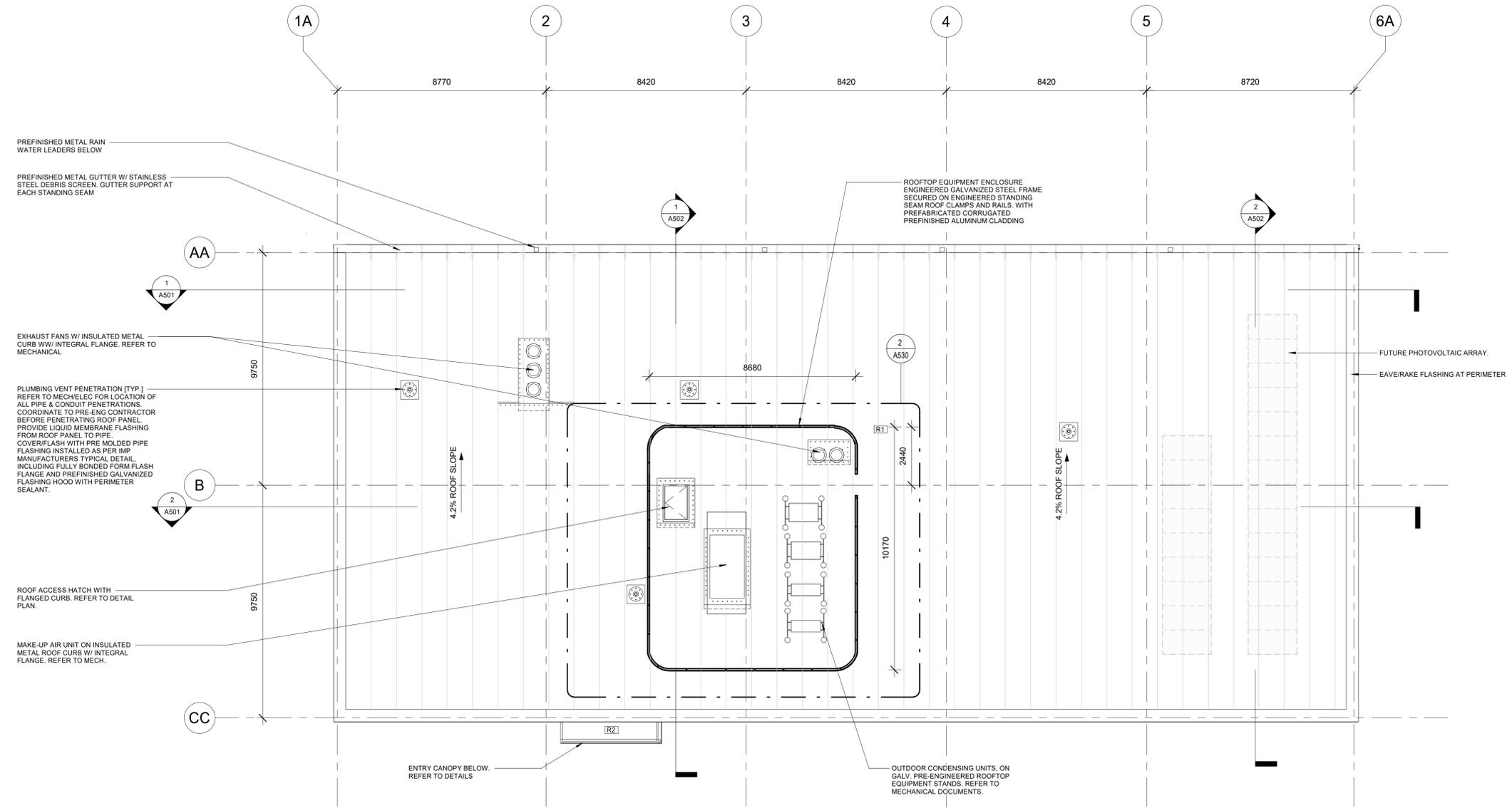
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| DATE: 05/12/20 | |
| PROJECT NO: 2301 | |
| DRAWN BY: Author | |
| CHECKED BY: Checker | |



| No. | ISSUANCE | DATE |
|-----|---------------------------------------|------------|
| 1 | Issued for Class C Costing | 2023-12-06 |
| 2 | Issued for PEB Scope RFP | 2023-12-15 |
| 3 | Issued for 100% SD | 2023-12-21 |
| 4 | Issued for SPA | 2024-02-09 |
| 5 | Issued for Design Development Costing | 2024-03-28 |
| 6 | Issued for Permit | 2024-11-08 |
| 7 | Issued for Tender | 2024-11-25 |

- GENERAL NOTES**
- MECHANICAL EQUIPMENT CURBS TO BE INSTALLED IN SEQUENCE W/ INSULATED METAL ROOF PANELS. COORDINATE W/ PRE-ENG CONTRACTOR.
 - PRE-ENG SUPPLIER TO PROVIDE SUPPLEMENTARY ROOF STRUCTURE AS REQ'D AT ROOF PENETRATIONS & OPENINGS AS WELL AS BELOW ROOF MOUNTED EQUIPMENT LOADS. CONTRACTOR TO REVIEW ENGINEERED DRAWINGS OF PRE-ENG STRUCTURE & VERIFY WITH PRE-ENG SUPPLIER'S ENGINEER PRIOR TO PLACEMENT OF EQUIPMENT OR OTHER APPLIED LOADS ONTO ROOF.
 - COORDINATE ALL ROOF PENETRATIONS W/ INSULATED METAL PANEL SUPPLIER/ PRE-ENG CONTRACTOR PRIOR TO INSTALLATION.



1 ROOF PLAN
A204 Scale: 1 : 100

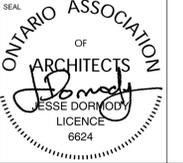
CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3285 Principal's Road, Mississauga, Ontario

TITLE
ROOF PLAN

architects
Baird Sampson Neuter

416.363.8877 bsnarchitects.com



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| SCALE: | 1 : 100 | SHEET NO.: | A204 |
| DATE: | 05/19/20 | | |
| PROJECT NO.: | 2301 | | |
| DRAWN BY: | Author | | |
| CHECKED BY: | Checker | | |

FLOOR PLAN LEGEND

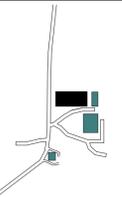
REQUIRED CLEARANCE AREA
OBC AND FADS

CLIENT LOGO

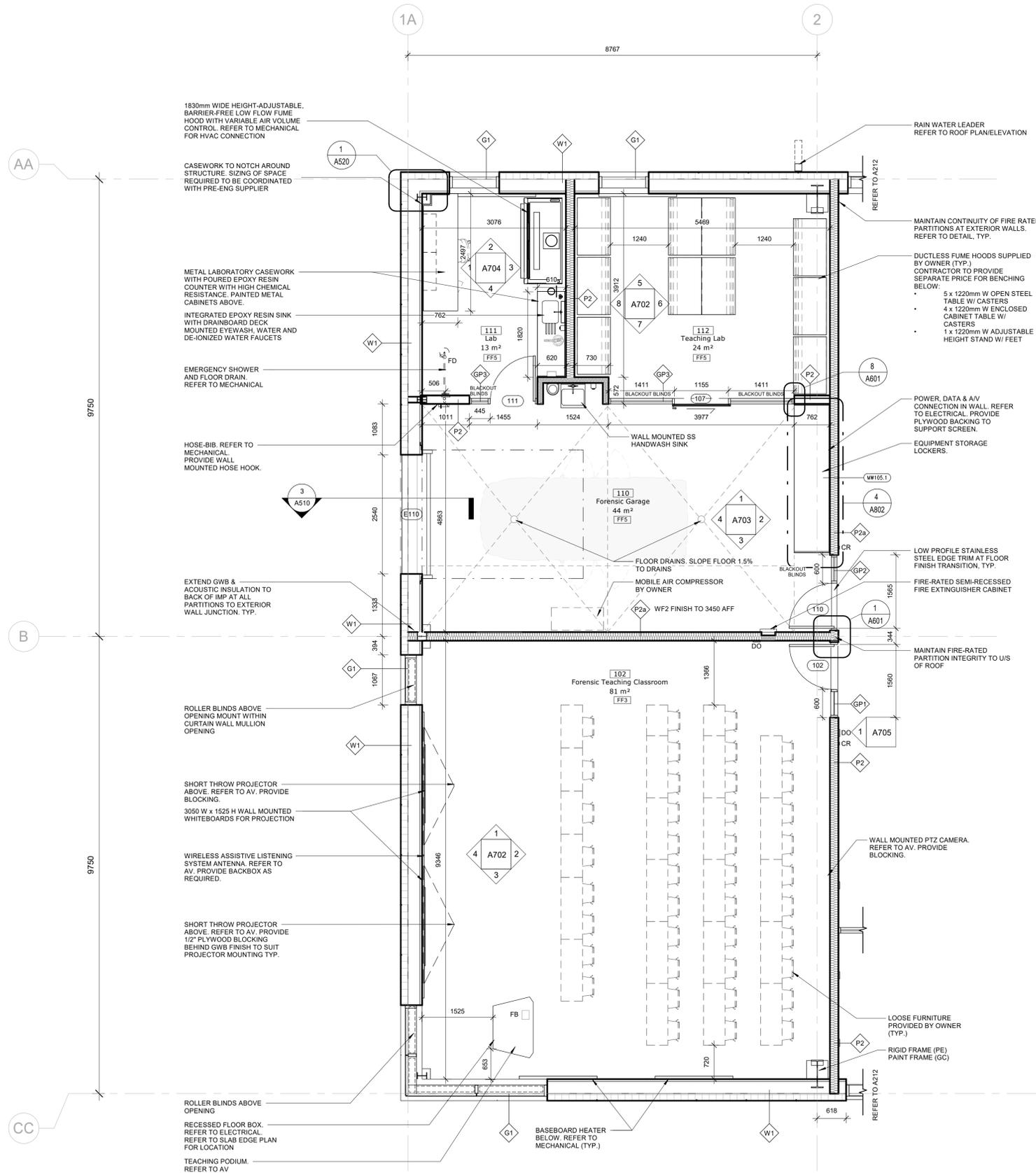


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MISSISSAUGA

KEYPLAN



| No. | ISSUANCE | DATE |
|-----|-------------------|------------|
| 1 | Issued for Permit | 2024-11-08 |
| 2 | Issued for Tender | 2024-11-25 |



1 ENLARGED PLAN - WEST WING/FSC
A211 Scale: 1:50

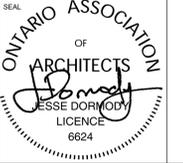
CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
ENLARGED PLANS - WEST WING/ FSC

architects
Baird Sampson Neurt

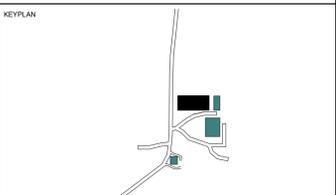
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| DATE: 09/11/20 | |
| PROJECT NO: 2301 | |
| DRAWN BY: Author | |
| CHECKED BY: Checker | |



| No. | ISSUANCE | DATE |
|-----|-------------------|------------|
| 1 | Issued for Permit | 2024-11-08 |
| 2 | Issued for Tender | 2024-11-25 |

CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
ENLARGED PLANS - CENTRAL WING

architects
Baird Sampson Neuter

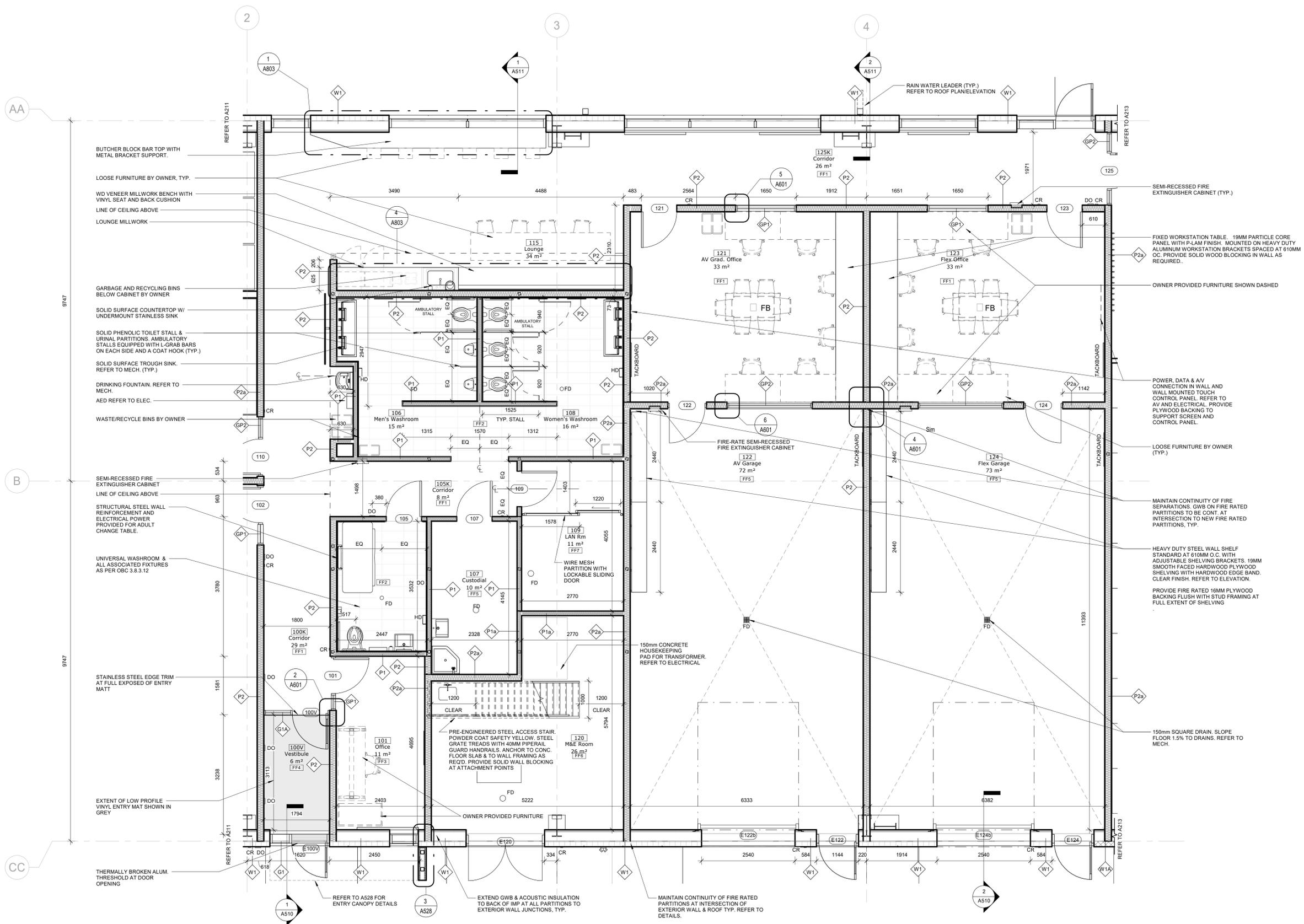
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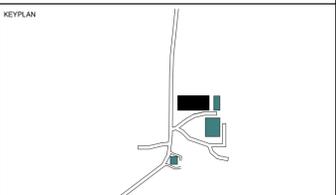
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| | | | |
|-----------|----------|--------------|-------------|
| SCALE: | 1 : 50 | SHEET NO.: | A212 |
| DATE: | 09/30/20 | PROJECT NO.: | 2301 |
| DRAWN BY: | Author | CHECKED BY: | Checker |



1 ENLARGED PLAN - CENTRAL WING
Scale: 1 : 50



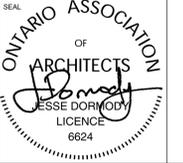
| No. | ISSUANCE | DATE |
|-----|-------------------|------------|
| 1 | Issued for Permit | 2024-11-08 |
| 2 | Issued for Tender | 2024-11-25 |

CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

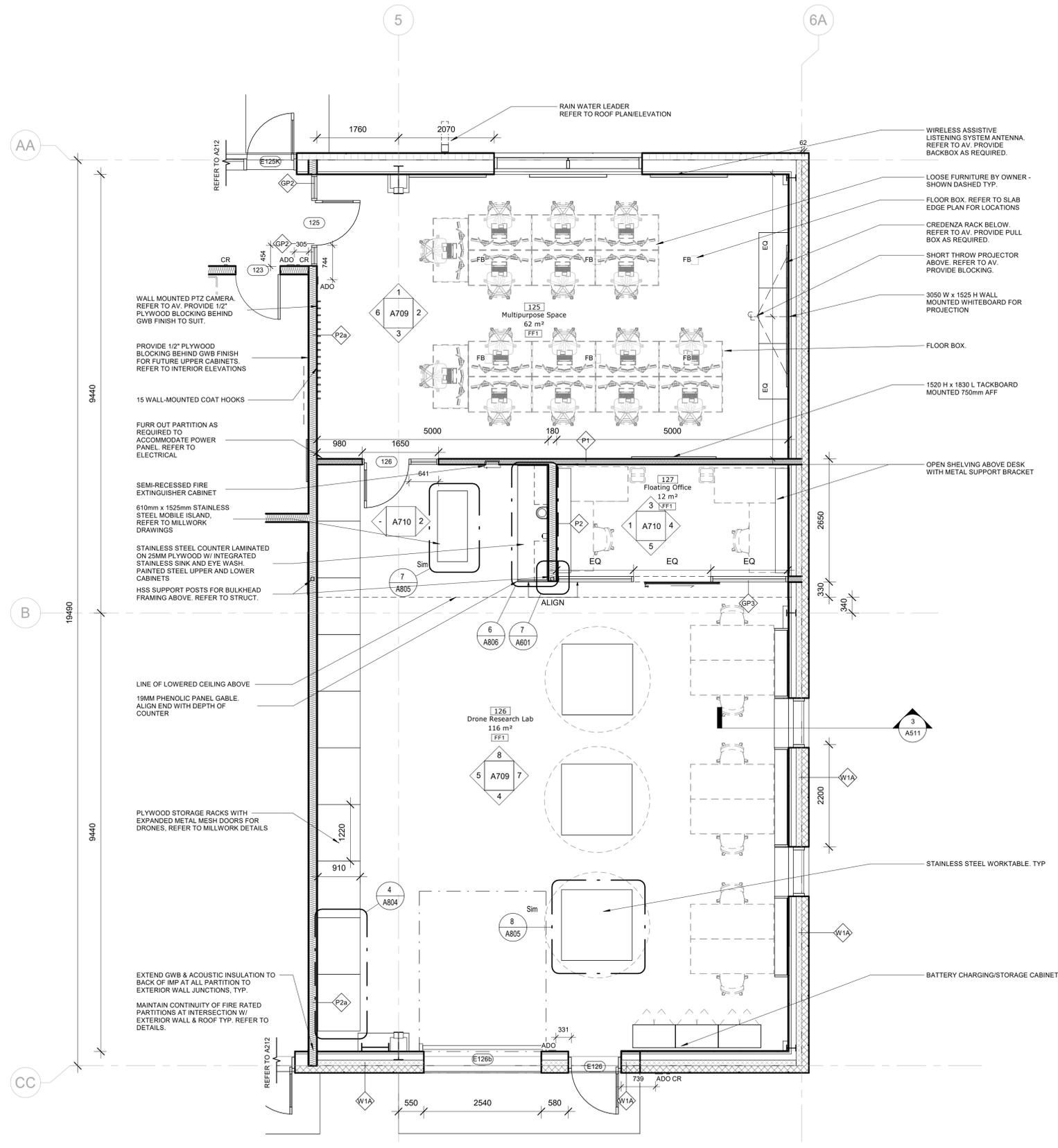
TITLE
ENLARGED PLANS - EAST WING/CROBE

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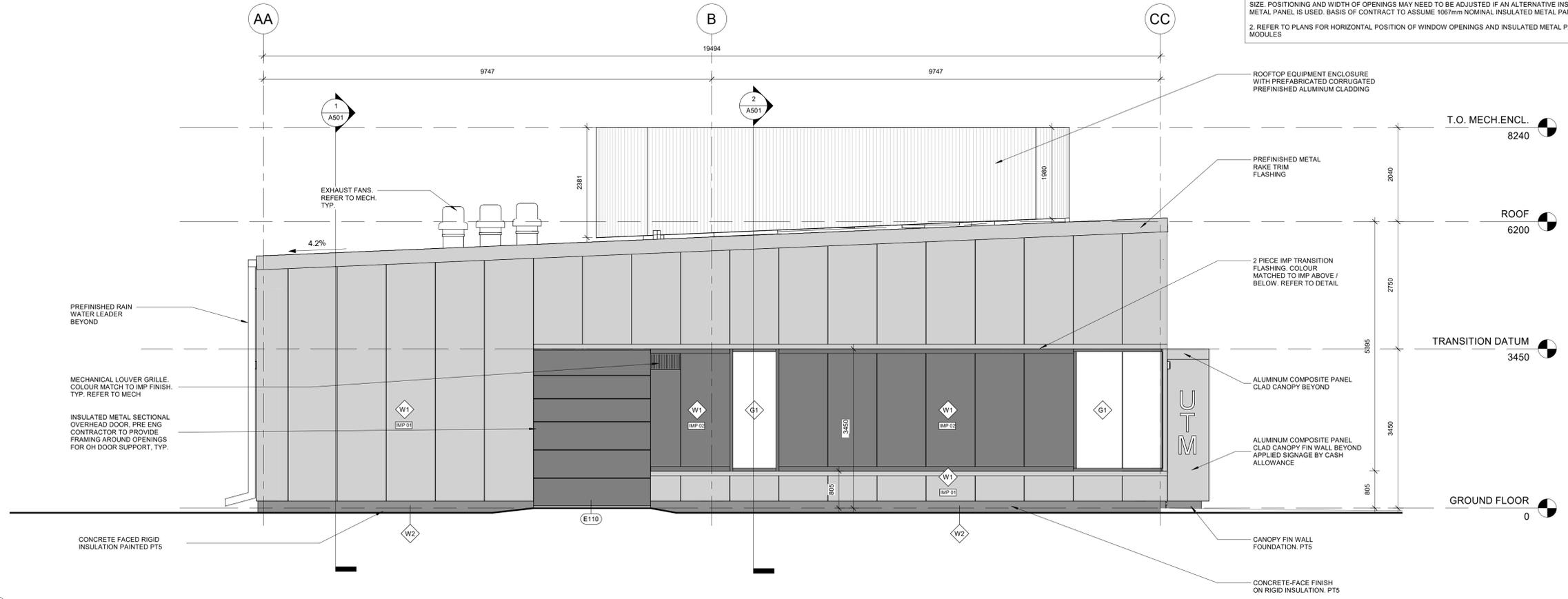
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| SCALE: 1 : 50 | SHEET NO: |
| DATE: 09/11/20 | A213 |
| PROJECT NO: 2301 | |
| DRAWN BY: Author | |
| CHECKED BY: Checker | |

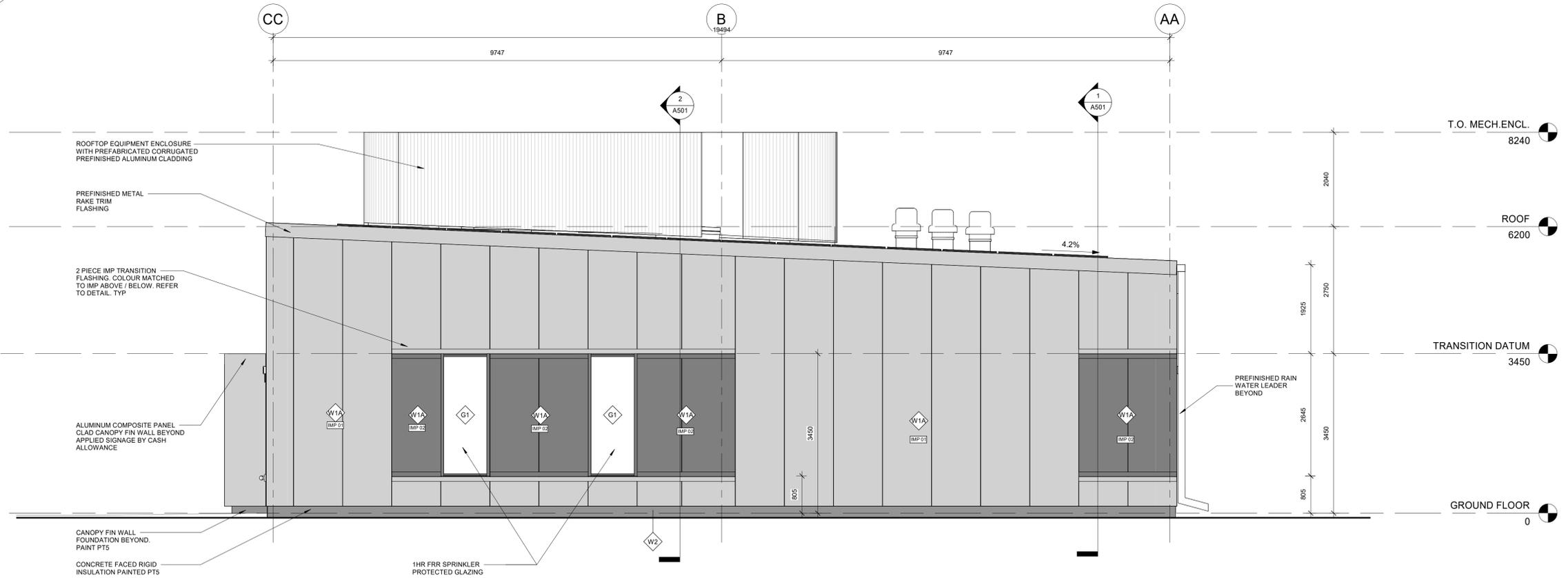


1 ENLARGED PLAN - EAST WING/CROBE
A213 Scale: 1 : 50

GENERAL NOTES:
 1. LAYOUT AND DIMENSIONS OF WALL SEGMENTS AND OPENING WIDTHS ARE BASED ON A NOMINAL 1067 (42") INSULATED METAL PANEL MODULE. OWNER'S PRE-ENGINEERED BUILDING CONTRACTOR TO CONFIRM PANEL SIZE. POSITIONING AND WIDTH OF OPENINGS MAY NEED TO BE ADJUSTED IF AN ALTERNATIVE INSULATED METAL PANEL IS USED. BASIS OF CONTRACT TO ASSUME 1067mm NOMINAL INSULATED METAL PANEL WIDTH.
 2. REFER TO PLANS FOR HORIZONTAL POSITION OF WINDOW OPENINGS AND INSULATED METAL PANEL MODULES



1 WEST ELEVATION
A401 Scale: 1 : 50



2 EAST ELEVATION
A401 Scale: 1 : 50

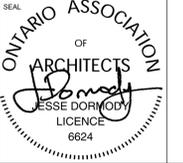
| No. | ISSUANCE | DATE |
|-----|---------------------------------------|------------|
| 1 | Issued for Class C Costing | 2023-12-06 |
| 2 | Issued for PEB Scope RFP | 2023-12-15 |
| 3 | Issued for 100% SD | 2023-12-21 |
| 4 | Issued for SPA | 2024-02-09 |
| 5 | Issued for Design Development Costing | 2024-03-28 |
| 6 | Issued for Permit | 2024-11-08 |
| 7 | Issued for Tender | 2024-11-25 |

CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
ELEVATIONS

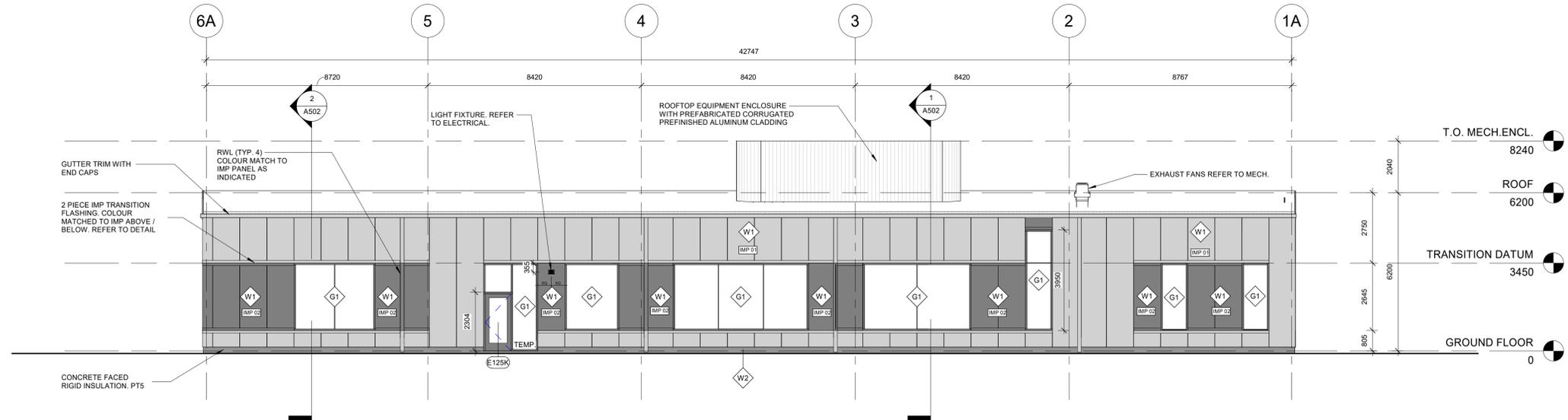
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| DATE: 05/19/20 | | A401 |
| PROJECT NO: 2301 | | |
| DRAWN BY: Author | | |
| CHECKED BY: Checker | | |

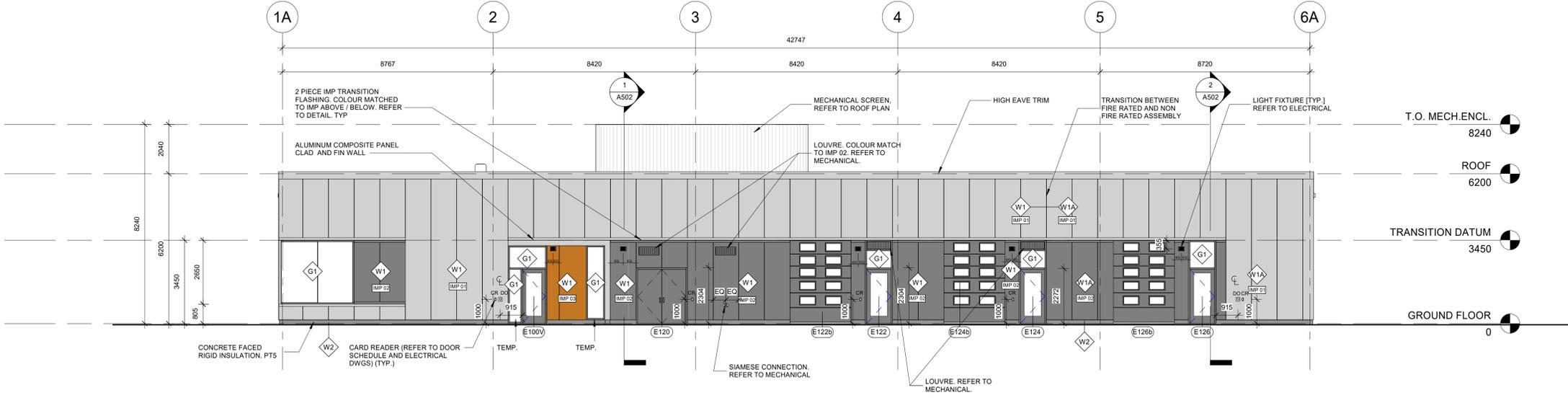
GENERAL NOTES:
 1. LAYOUT AND DIMENSIONS OF WALL SEGMENTS AND OPENING WIDTHS ARE BASED ON A NOMINAL 1067 (42") INSULATED METAL PANEL MODULE. OWNER'S PRE-ENGINEERED BUILDING CONTRACTOR TO CONFIRM PANEL SIZE. POSITIONING AND WIDTH OF OPENINGS MAY NEED TO BE ADJUSTED IF AN ALTERNATIVE INSULATED METAL PANEL IS USED. BASIS OF CONTRACT TO ASSUME 1067mm NOMINAL INSULATED METAL PANEL WIDTH.
 2. REFER TO PLANS FOR HORIZONTAL POSITION OF WINDOW OPENINGS AND INSULATED METAL PANEL MODULES



1 NORTH ELEVATION
 A402 Scale: 1 : 100

| No. | ISSUANCE | DATE |
|-----|---------------------------------------|------------|
| 1 | Issued for Class C Costing | 2023-12-06 |
| 2 | Issued for PEB Scope RFP | 2023-12-15 |
| 3 | Issued for 100% SD | 2023-12-21 |
| 4 | Issued for SPA | 2024-02-09 |
| 5 | Issued for Design Development Costing | 2024-03-28 |
| 6 | Issued for Permit | 2024-11-08 |
| 7 | Issued for Tender | 2024-11-25 |

| LEVEL | HEIGHT |
|------------------|--------|
| T.O. MECH.ENCL. | 8240 |
| ROOF | 6200 |
| TRANSITION DATUM | 3450 |
| GROUND FLOOR | 0 |



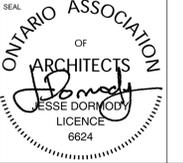
2 SOUTH ELEVATION
 A402 Scale: 1 : 100

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PROJECT
 Pre-Engineered Building
 3265 Principal's Road, Mississauga, Ontario

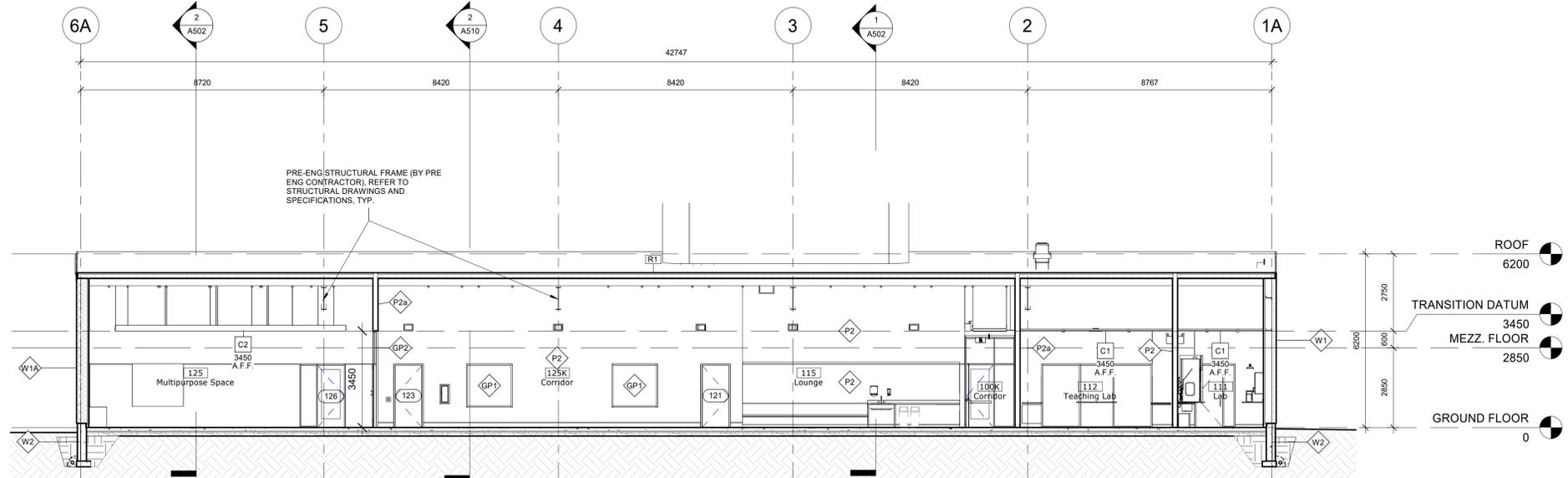
TITLE
 ELEVATIONS

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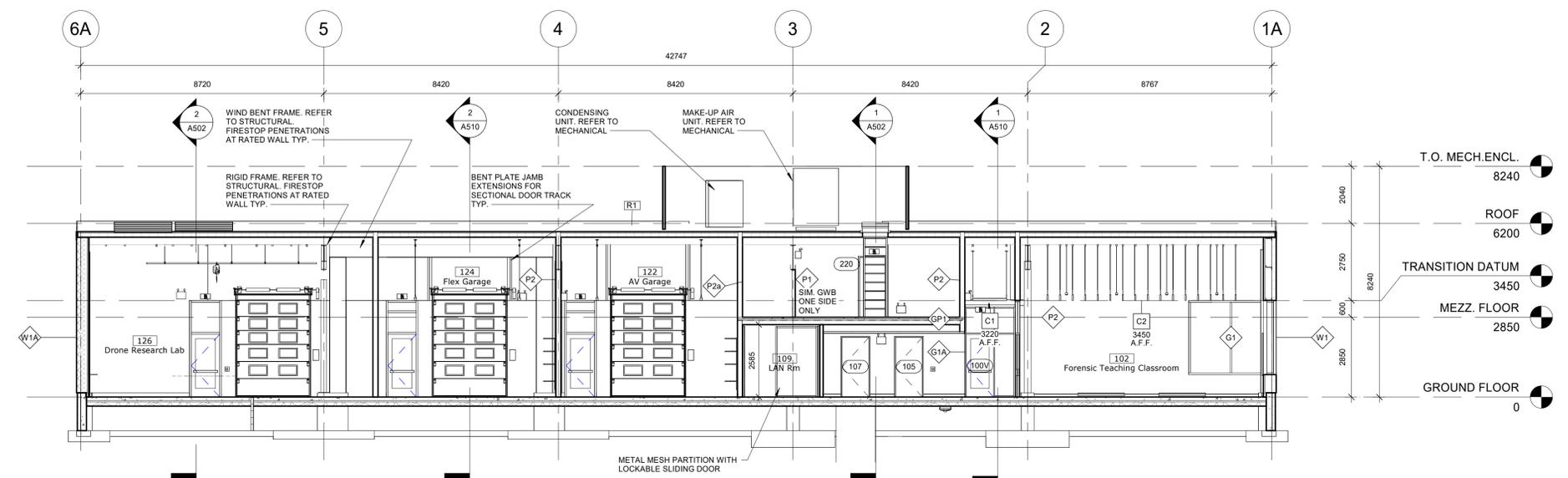


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|---------------------|----------------|
| SCALE: 1 : 100 | SHEET NO: A402 |
| DATE: 06/12/20 | |
| PROJECT NO: 2301 | |
| DRAWN BY: Author | |
| CHECKED BY: Checker | |



1 N-S SECTION
A501 Scale: 1 : 100



2 N-S SECTION
A501 Scale: 1 : 100

| No. | ISSUANCE | DATE |
|-----|---------------------------------------|------------|
| 1 | Issued for Class C Costing | 2023-12-06 |
| 2 | Issued for PEB Scope RFP | 2023-12-15 |
| 3 | Issued for 100% SD | 2023-12-21 |
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| 5 | Issued for Design Development Costing | 2024-03-28 |
| 6 | Issued for Permit | 2024-11-08 |
| 7 | Issued for Tender | 2024-11-25 |

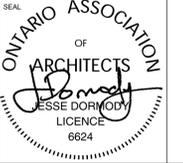
CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
BUILDING SECTIONS

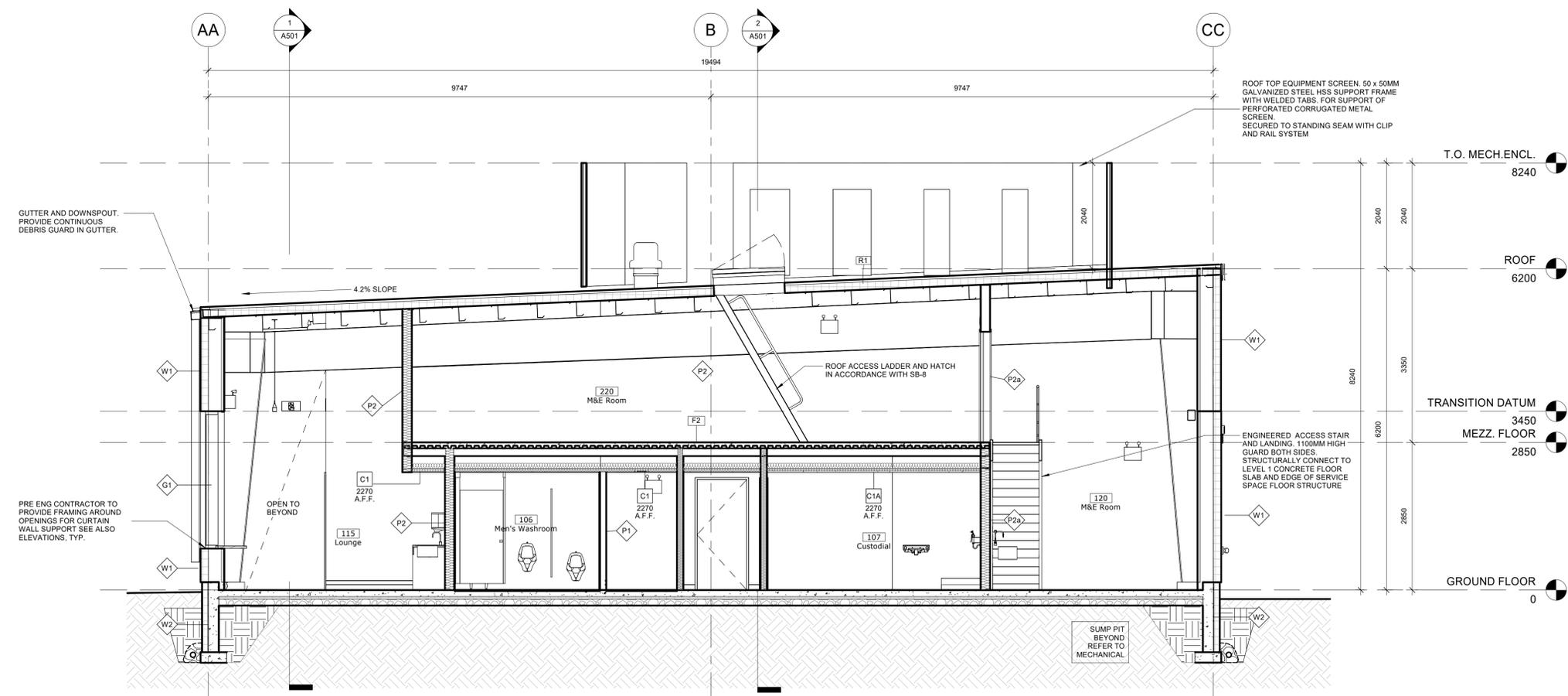
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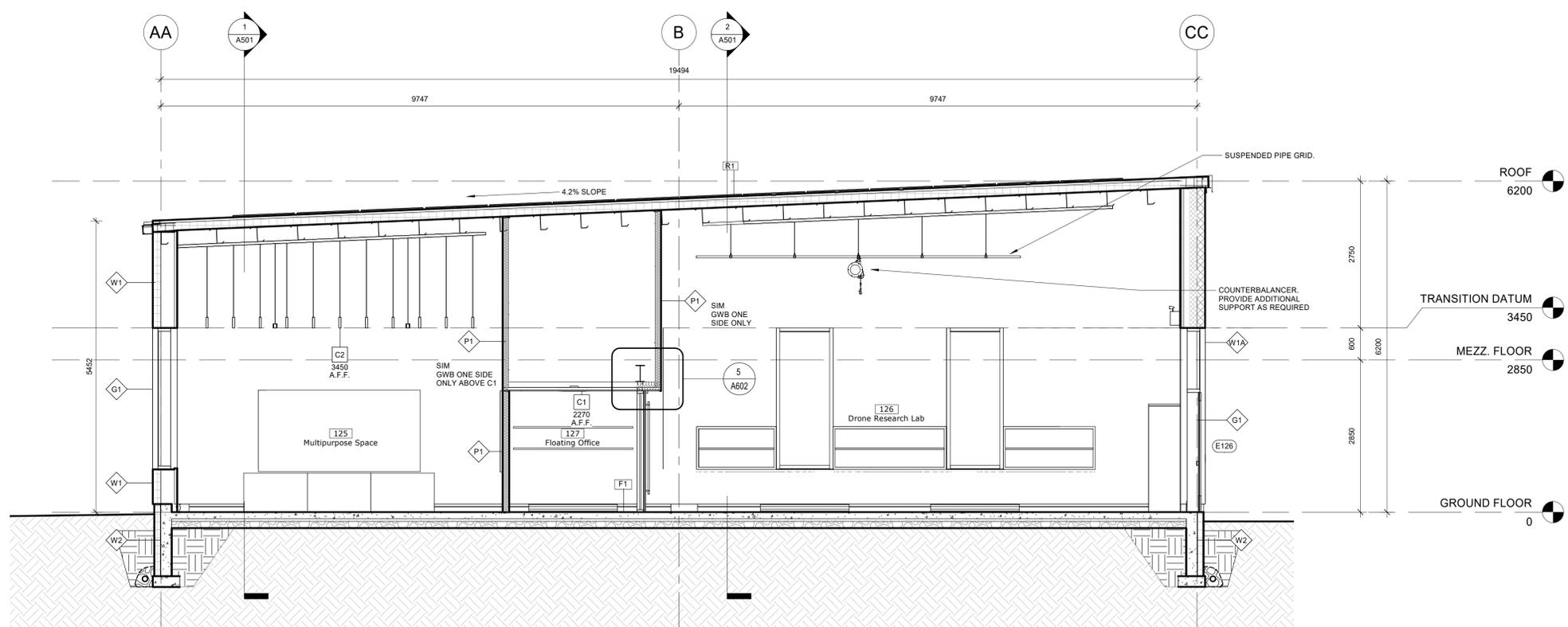


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| SCALE: 1 : 100 | SHEET NO: A501 |
| DATE: 05/26/20 | |
| PROJECT NO: 2301 | |
| DRAWN BY: Author | |
| CHECKED BY: Checker | |



1 E-W SECTION
A502 Scale: 1 : 50



2 E-W SECTION 2
A502 Scale: 1 : 50

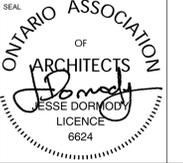
| No. | ISSUANCE | DATE |
|-----|---------------------------------------|------------|
| 1 | Issued for Class C Costing | 2023-12-06 |
| 2 | Issued for PEB Scope RFP | 2023-12-15 |
| 3 | Issued for 100% SD | 2023-12-21 |
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| 6 | Issued for Permit | 2024-11-08 |
| 7 | Issued for Tender | 2024-11-25 |

CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
BUILDING SECTIONS

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| SCALE: 1 : 50 | SHEET NO: A502 |
| DATE: 05/26/20 | |
| PROJECT NO: 2301 | |
| DRAWN BY: Author | |
| CHECKED BY: Checker | |

| No. | ISSUANCE | DATE |
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| 1 | Issued for 100% SD | 2023-12-21 |
| 2 | Issued for SPA | 2024-02-09 |
| 3 | Issued for Design Development Costing | 2024-03-28 |
| 4 | Issued for Permit | 2024-11-08 |
| 5 | Issued for Tender | 2024-11-25 |

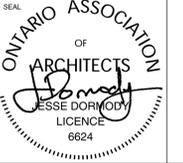
CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3285 Principal's Road, Mississauga, Ontario

TITLE
WALL SECTIONS

architects
Baird Sampson Neuert

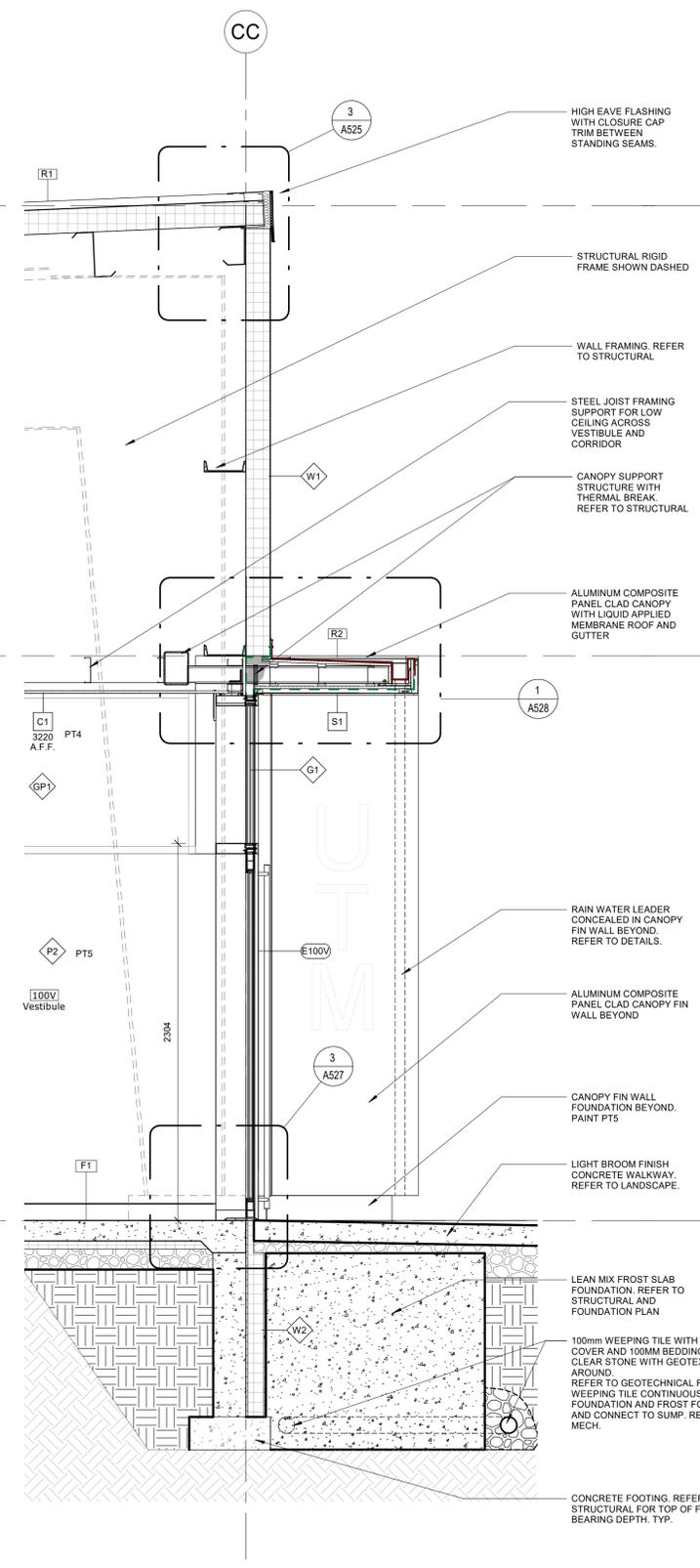
416.363.8877 bsnarchitects.com



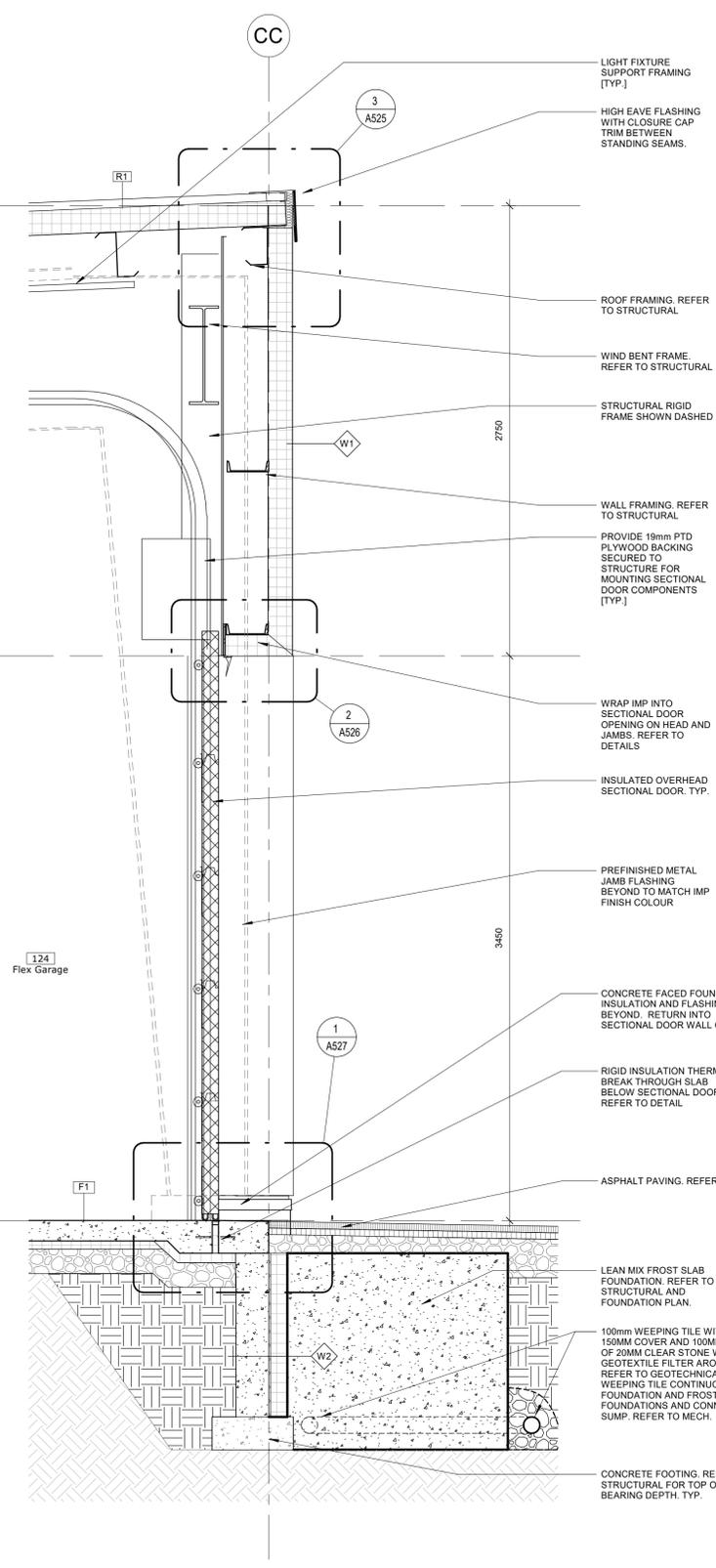
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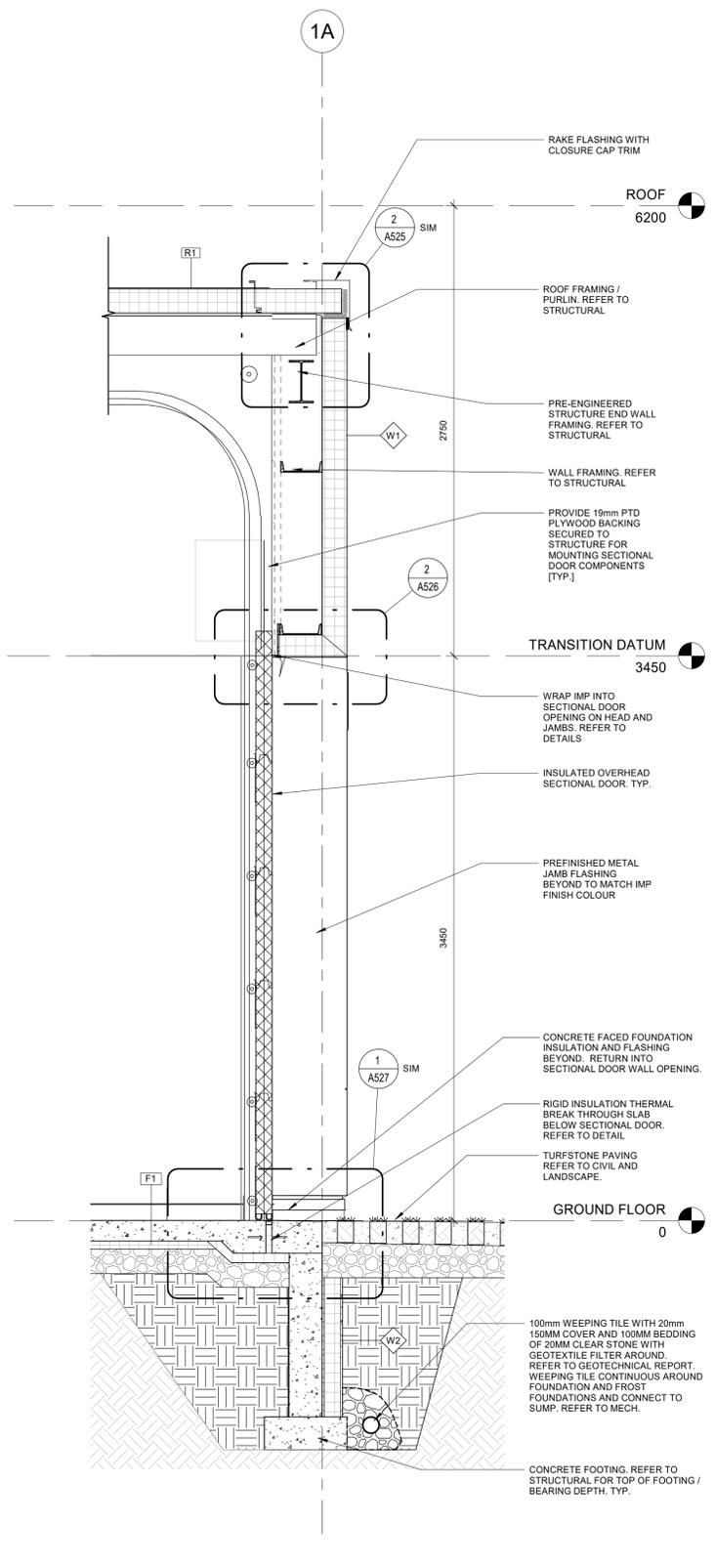
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|---------------------|-----------------------|
| SCALE: 1:20 | SHEET NO: A510 |
| DATE: 05/26/20 | |
| PROJECT NO: 2301 | |
| DRAWN BY: Author | |
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1 WALL SECTION AT ENTRY
A510 Scale: 1:20



2 WALL SECTION AT SECTIONAL DOOR - SOUTH WALL
A510 Scale: 1:20



3 WALL SECTION AT SECTIONAL DOOR - WEST WALL
A510 Scale: 1:20

| No. | ISSUANCE | DATE |
|-----|---------------------------------------|------------|
| 1 | Issued for 100% SD | 2023-12-21 |
| 2 | Issued for SPA | 2024-02-09 |
| 3 | Issued for Design Development Costing | 2024-03-28 |
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| 5 | Issued for Tender | 2024-11-25 |

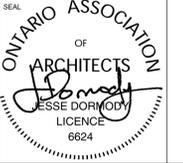
CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
WALL SECTIONS

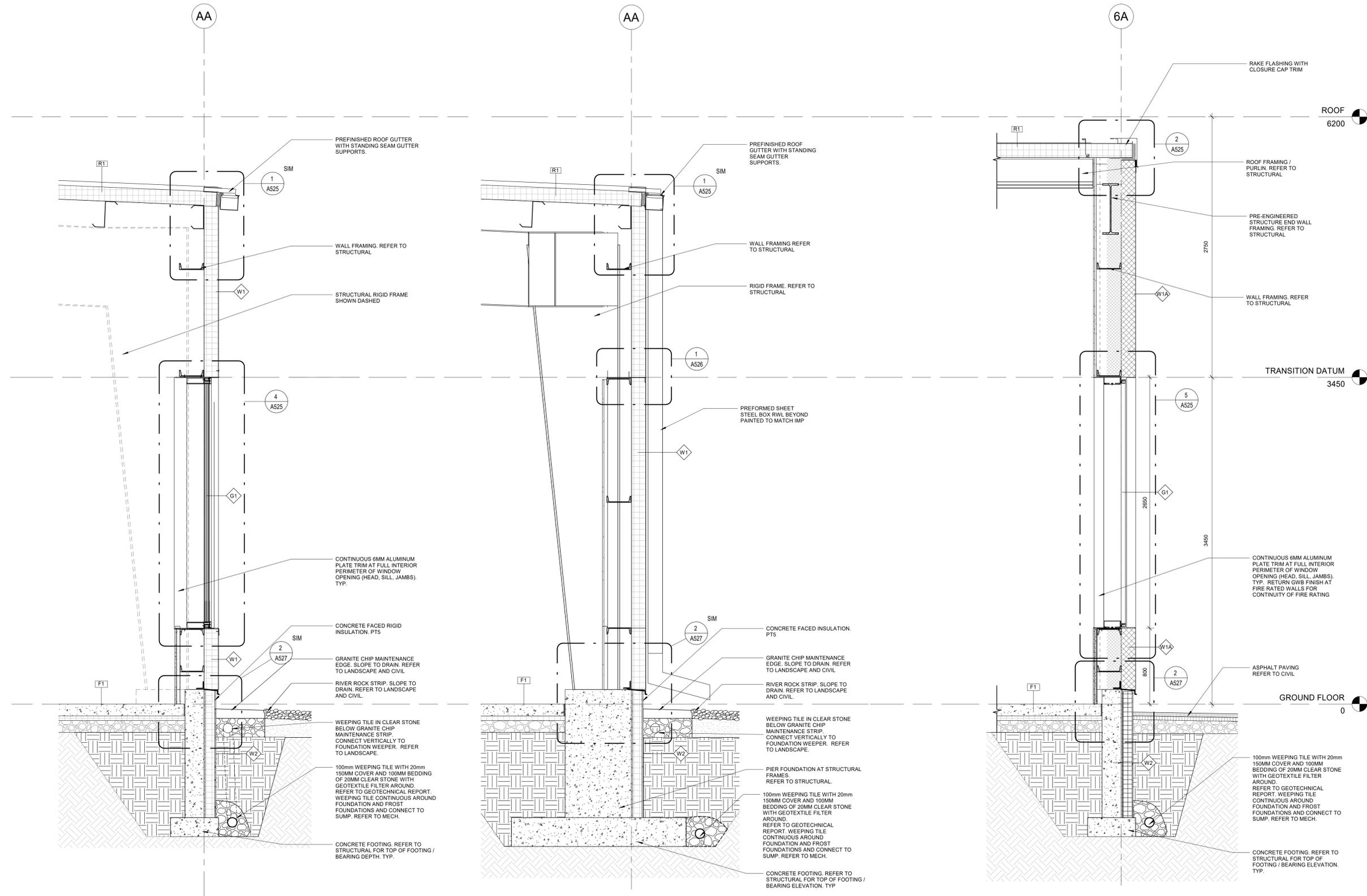
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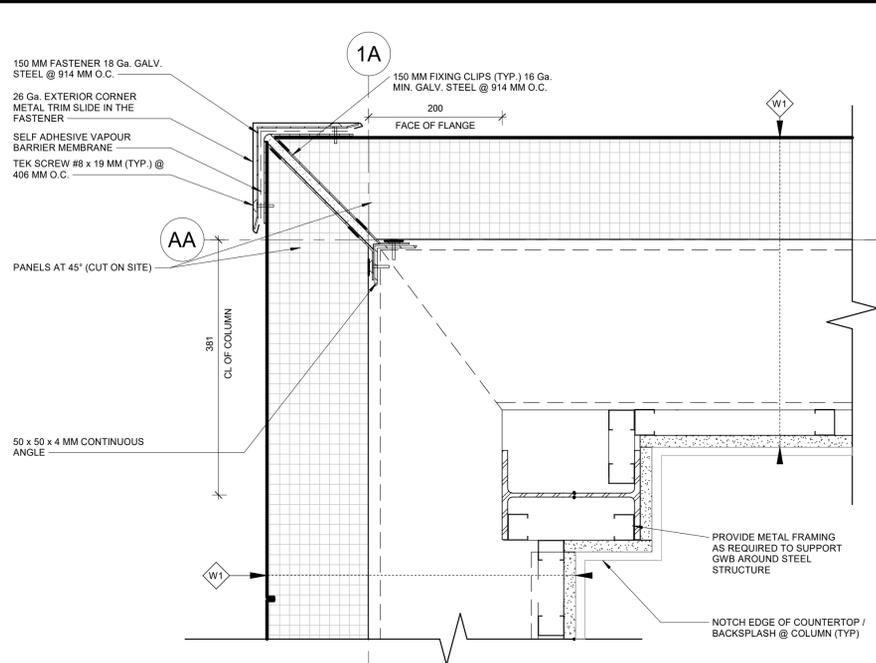
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| SCALE: | 1 : 20 | SHEET NO.: | A511 |
| DATE: | 05/26/20 | | |
| PROJECT NO.: | 2301 | | |
| DRAWN BY: | Author | | |
| CHECKED BY: | Checker | | |



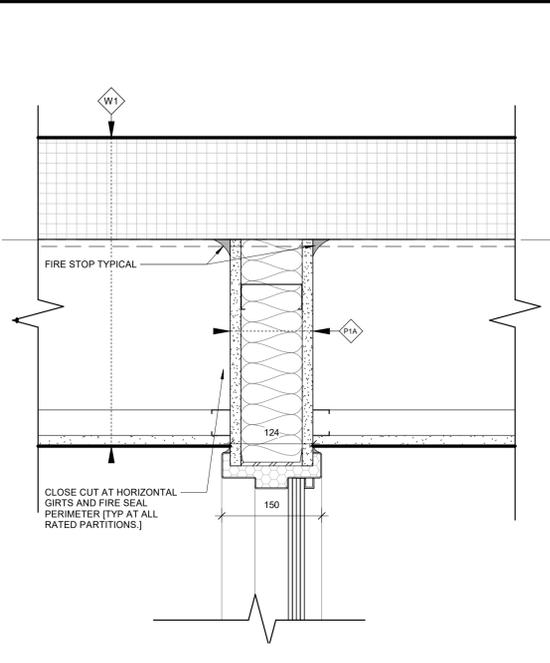
1 WALL SECTION AT FULL HEIGHT WINDOW
A511 Scale: 1 : 20

2 WALL SECTION AT COLUMN PIER
A511 Scale: 1 : 20

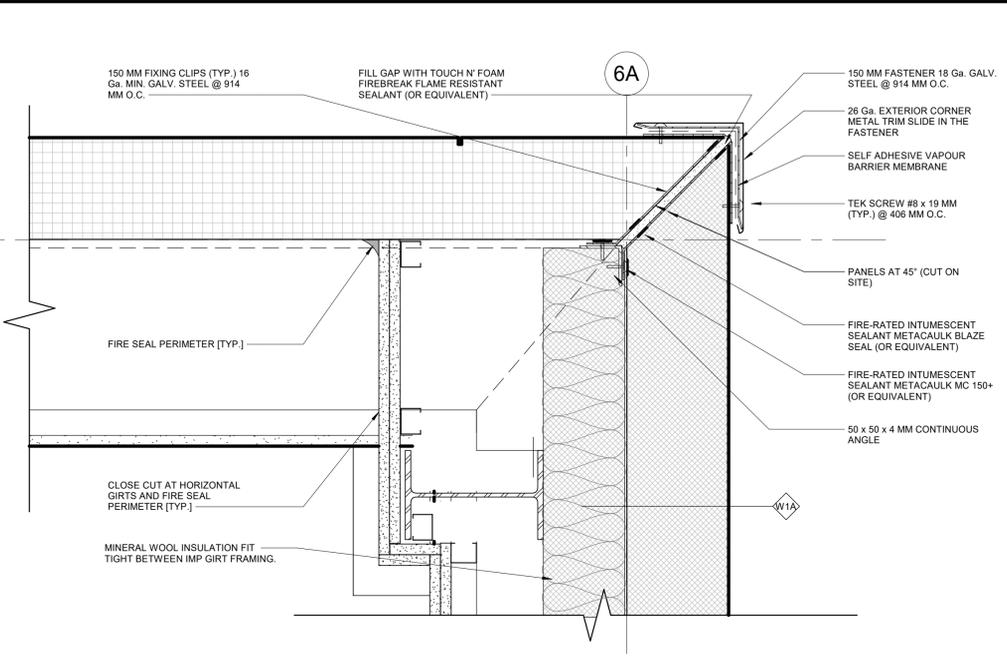
3 WALL SECTION AT EAST WALL
A511 Scale: 1 : 20



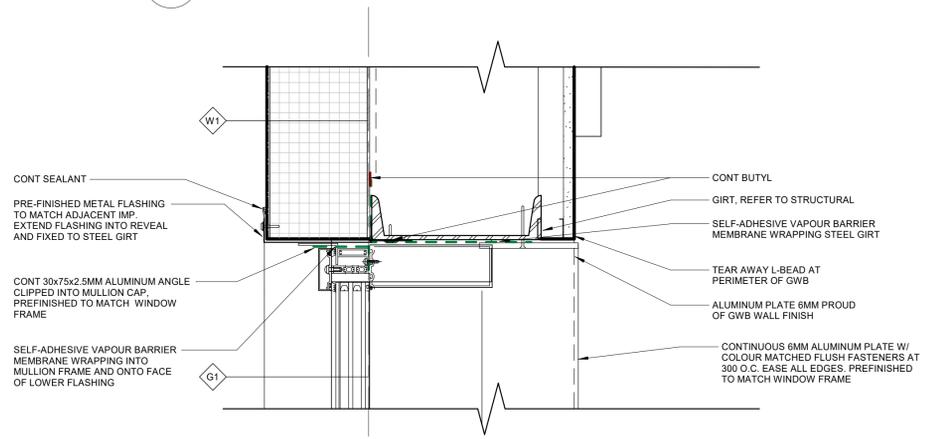
1 PLAN DETAIL AT NORTHWEST CORNER
A520 Scale: 1 : 5



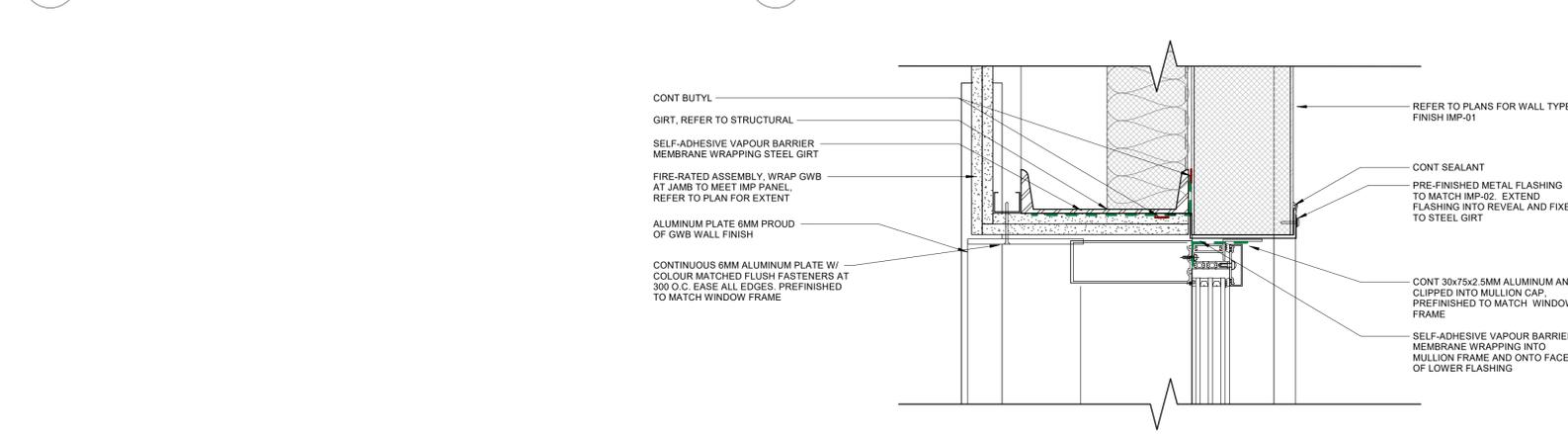
2 PLAN DETAIL AT FIRE RATED GLAZING PARTITION
A520 Scale: 1 : 5



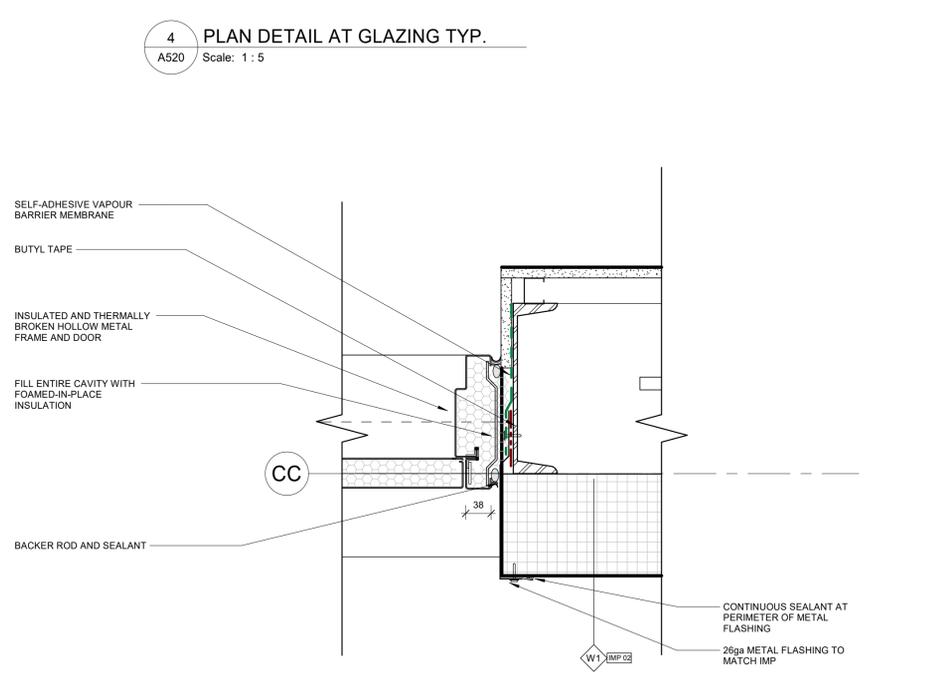
3 PLAN DETAIL AT NORTHEAST CORNER
A520 Scale: 1 : 5



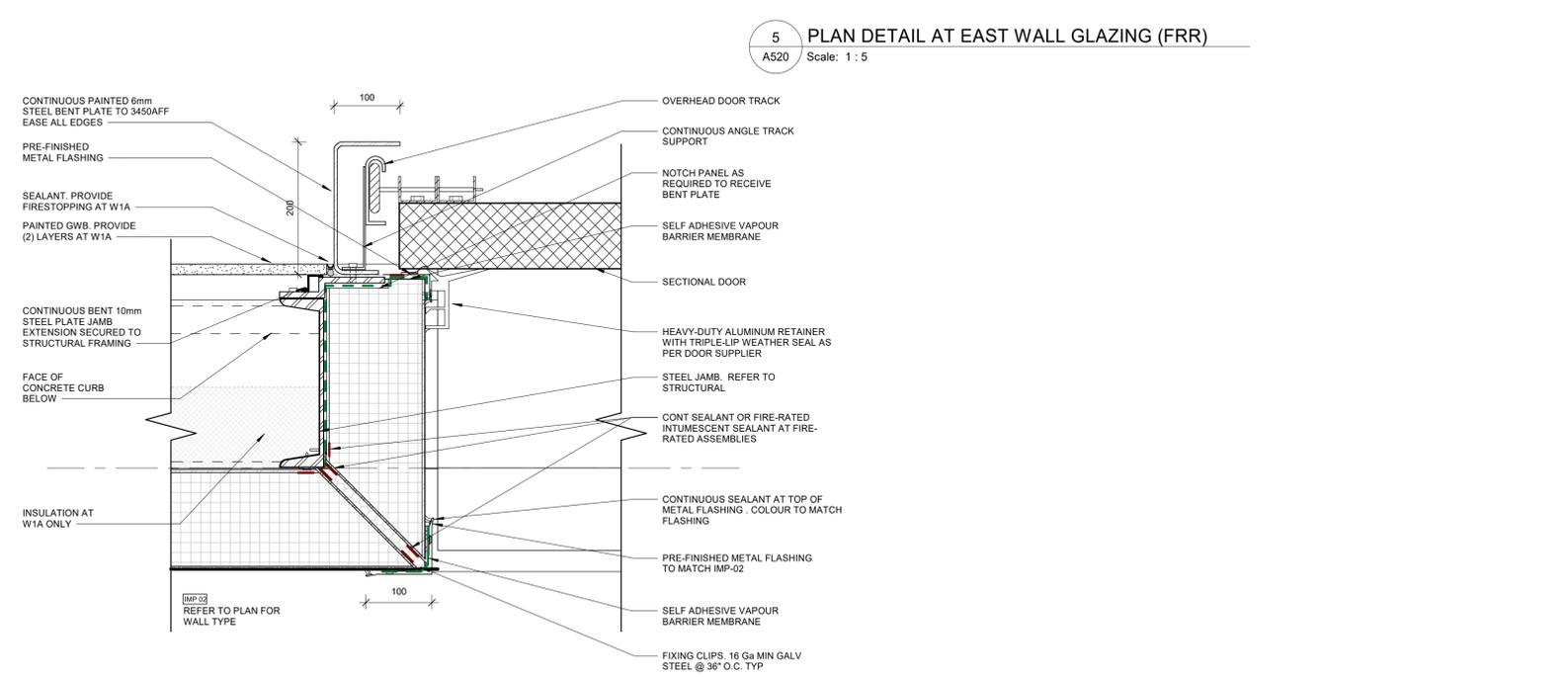
4 PLAN DETAIL AT GLAZING TYP.
A520 Scale: 1 : 5



5 PLAN DETAIL AT EAST WALL GLAZING (FRR)
A520 Scale: 1 : 5



6 PLAN DETAIL AT HOLLOW METAL DOOR
A520 Scale: 1 : 5



7 PLAN DETAIL AT SECTIONAL DOOR JAMB
A520 Scale: 1 : 5

| No. | ISSUANCE | DATE |
|-----|-------------------|------------|
| 1 | Issued for Tender | 2024-11-25 |

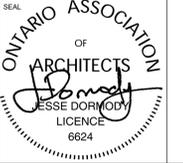
CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
PLAN DETAILS - ENVELOPE

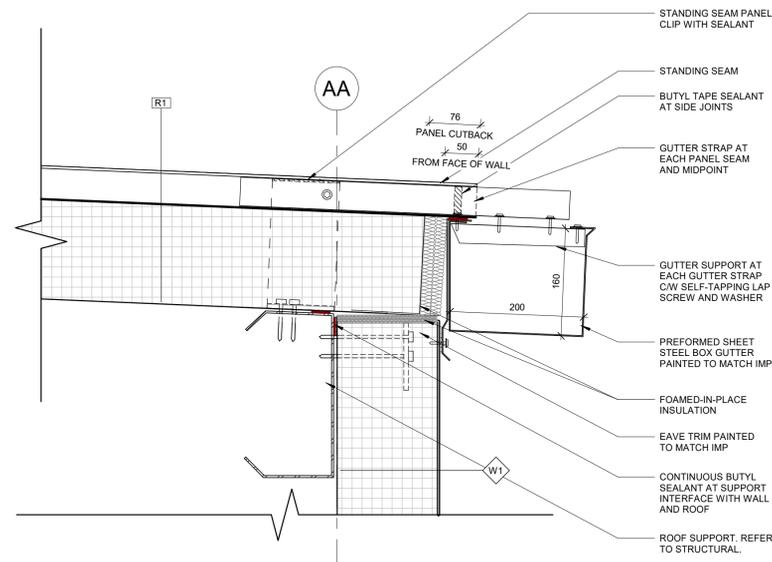
architects
Baird Sampson Neuert

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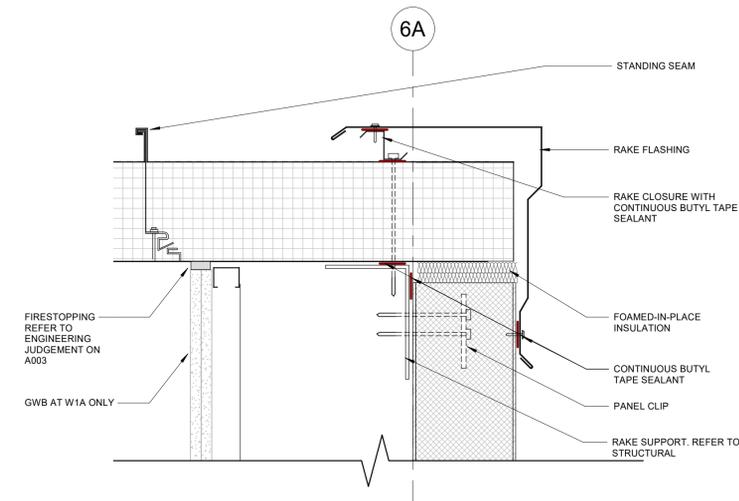


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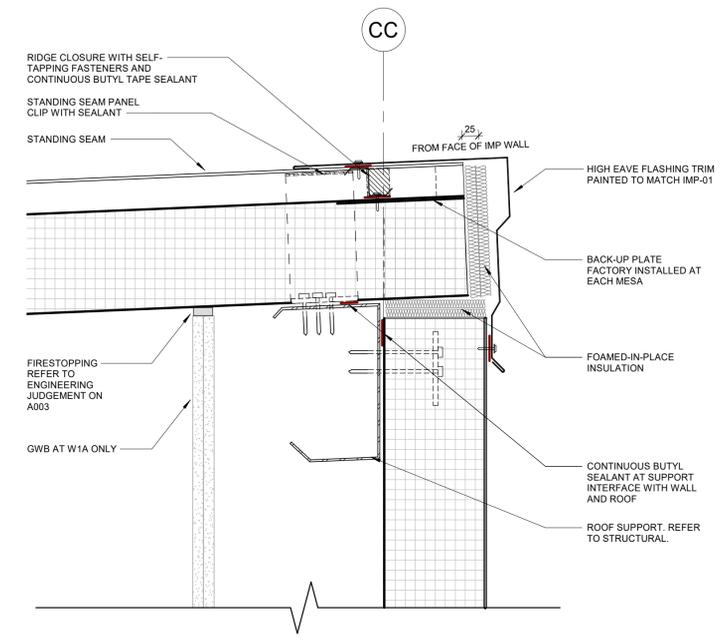
| SCALE: | 1 : 5 | SHEET NO.: |
|--------------|----------|-------------|
| DATE: | 05/26/20 | A520 |
| PROJECT NO.: | 2301 | |
| DRAWN BY: | Author | |
| CHECKED BY: | Checker | |



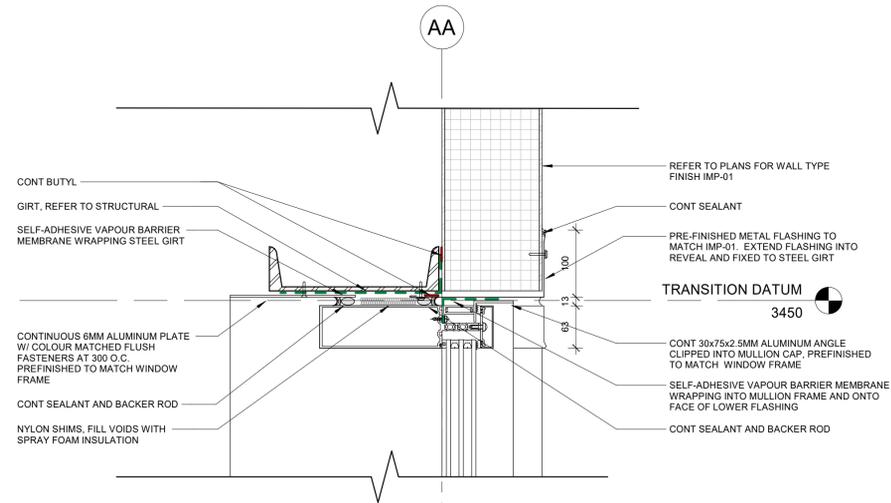
1 SECTION DETAIL AT LOW EAVE
A525 Scale: 1 : 5



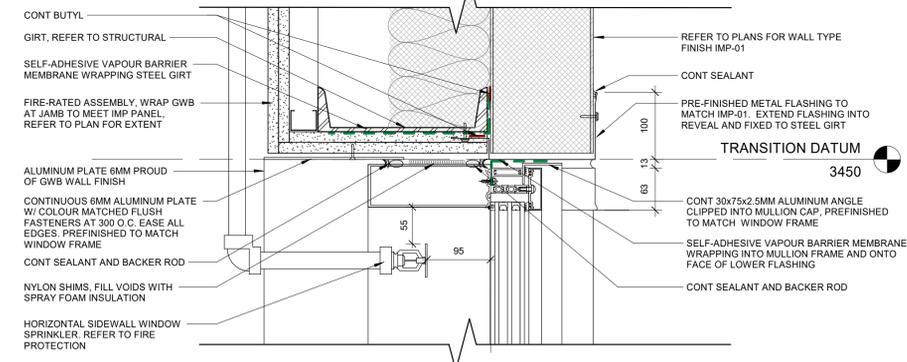
2 SECTION DETAIL AT RAKE WALL
A525 Scale: 1 : 5



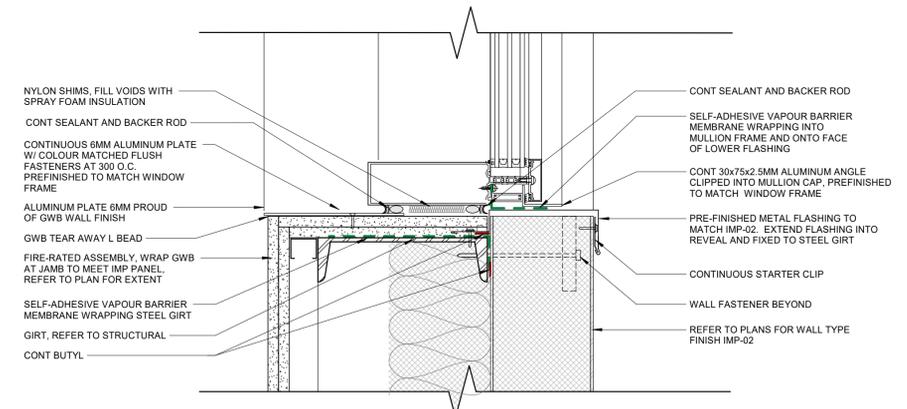
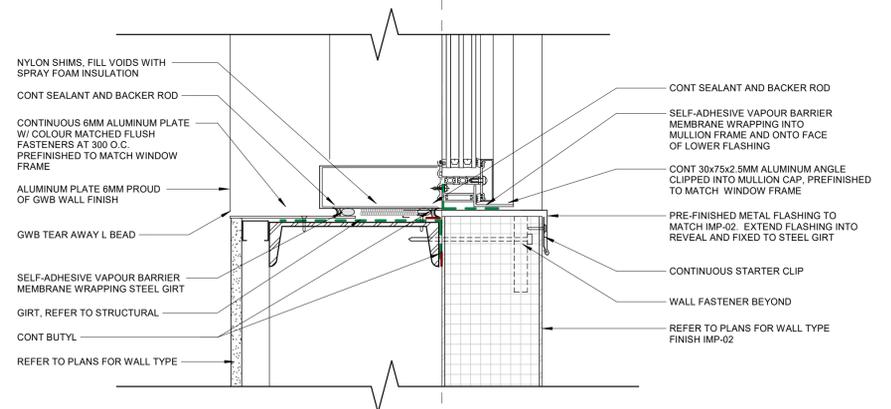
3 SECTION DETAIL AT HIGH EAVE
A525 Scale: 1 : 5



4 SECTION DETAIL AT GLAZING (TYP)
A525 Scale: 1 : 5



5 SECTION DETAIL AT GLAZING - EAST WALL
A525 Scale: 1 : 5



| No. | ISSUANCE | DATE |
|-----|-------------------|------------|
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CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
SECTION DETAILS - ENVELOPE

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| DATE: | 05/26/20 | A525 |
| PROJECT NO.: | 2301 | |
| DRAWN BY: | Author | |
| CHECKED BY: | Checker | |

| No. | ISSUANCE | DATE |
|-----|-------------------|------------|
| 1 | Issued for Tender | 2024-11-25 |

CLIENT
University of Toronto Mississauga

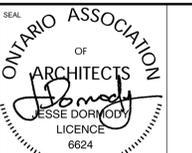
PROJECT
Pre-Engineered Building

3265 Principal's Road, Mississauga, Ontario

TITLE
SECTION DETAILS - ENVELOPE

architects
Baird Sampson Neuert

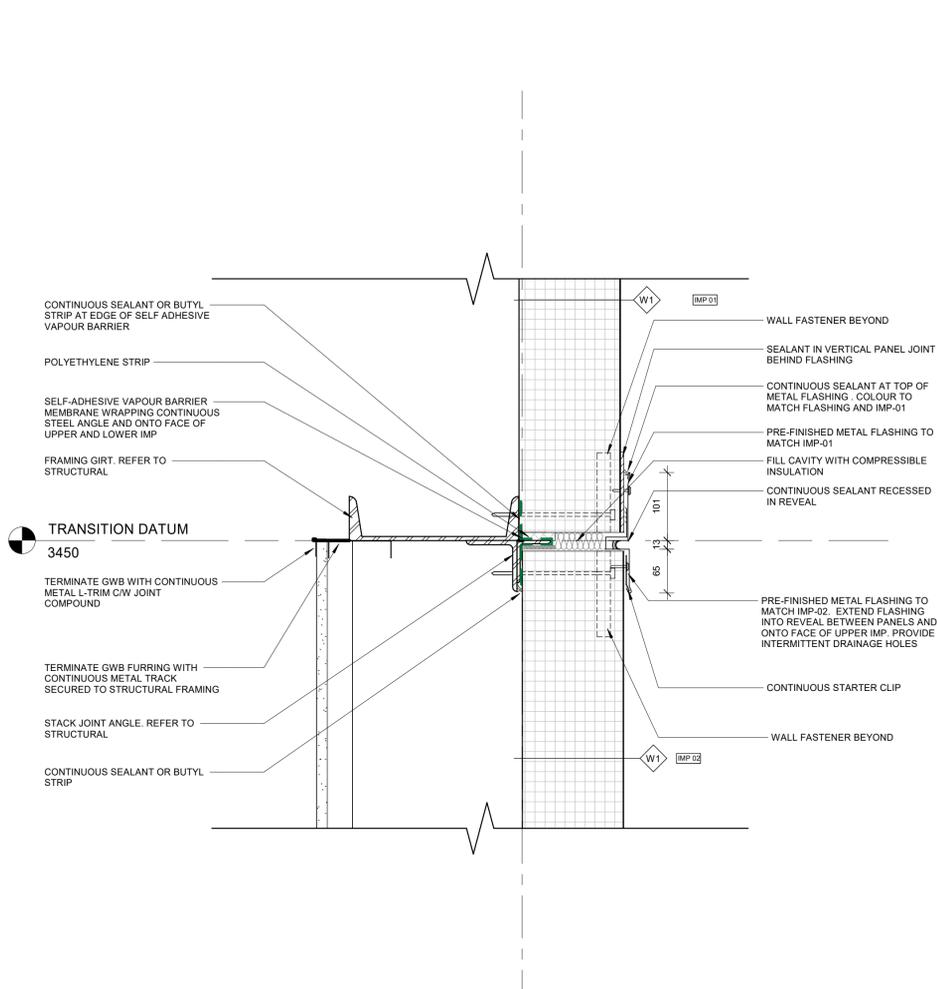
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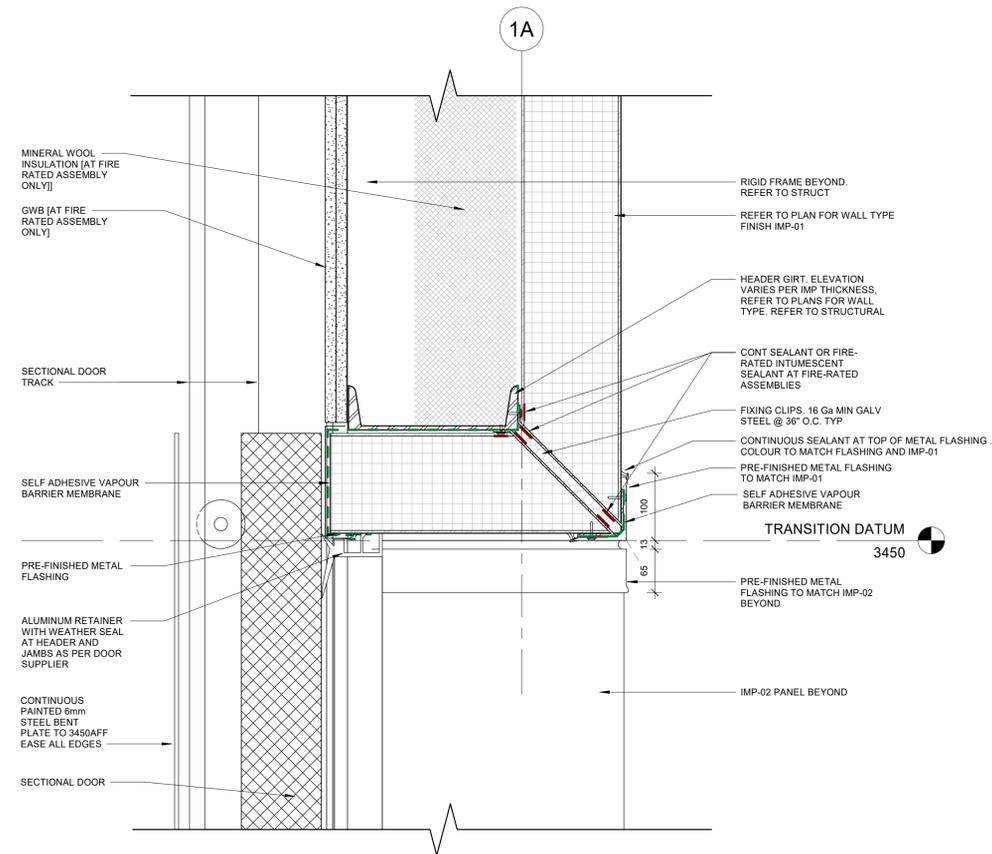
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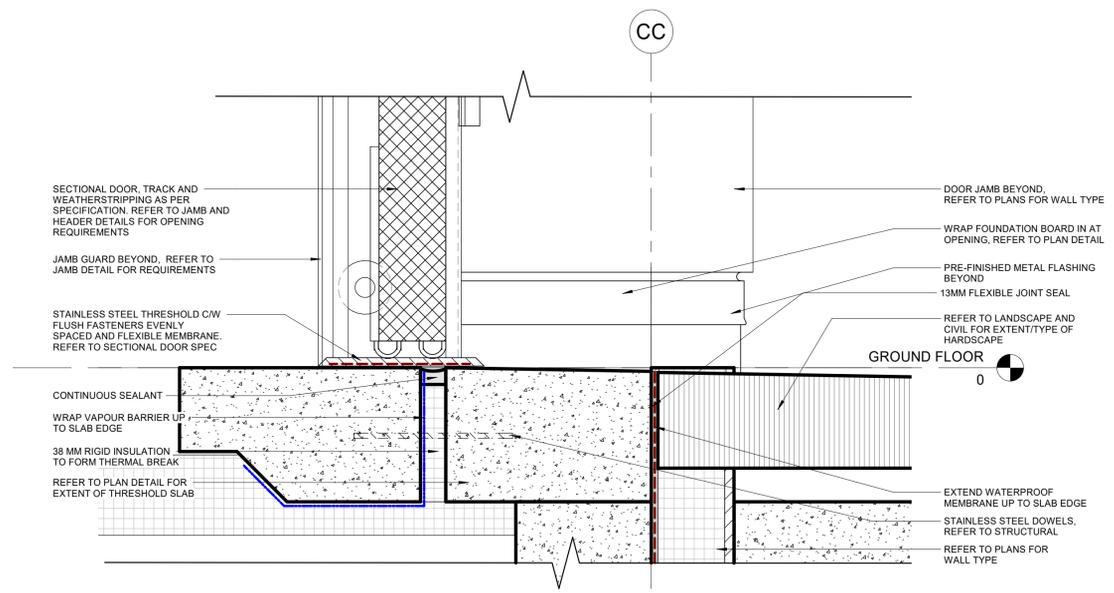
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| SCALE: | 1 : 5 | SHEET NO.: | A526 |
| DATE: | 05/26/20 | | |
| PROJECT NO.: | 2301 | | |
| DRAWN BY: | Author | | |
| CHECKED BY: | Checker | | |



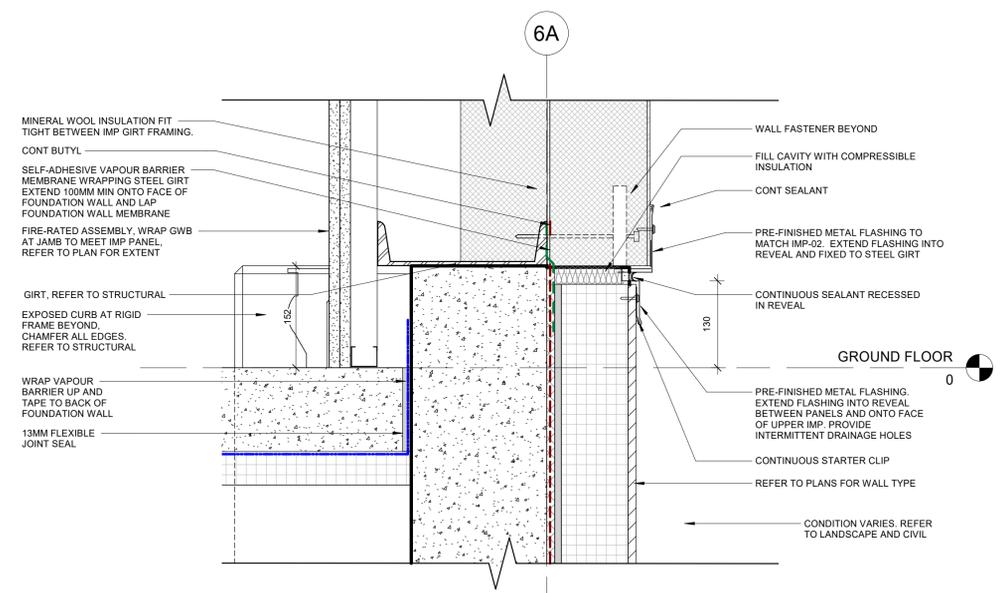
1 SECTION DETAIL AT IMP PANEL TRANSITION
A526 Scale: 1 : 5



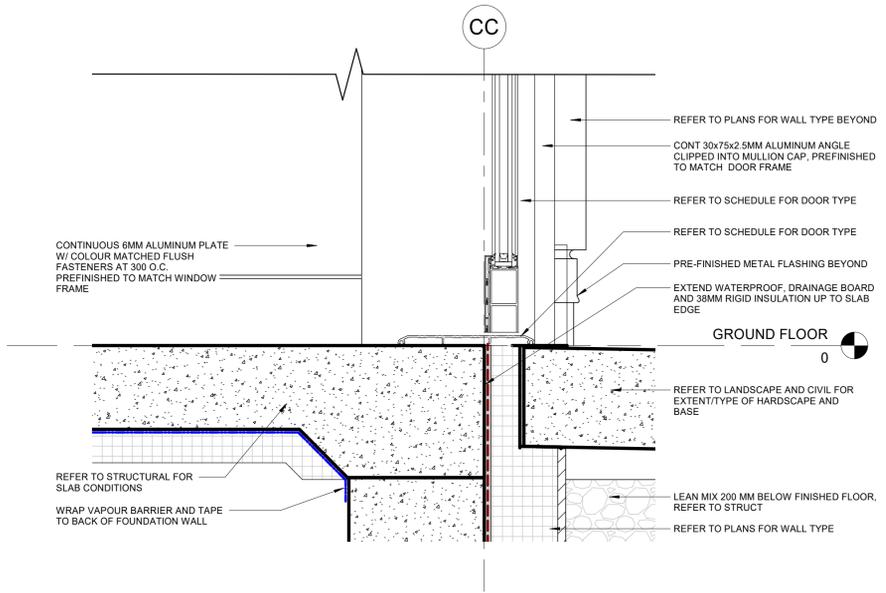
2 SECTION DETAIL AT SECTIONAL DOOR HEADER
A526 Scale: 1 : 5



1 SECTION DETAIL AT SECTIONAL DOOR
A527 Scale: 1 : 5



2 SECTION DETAIL AT CURB - EAST WALL
A527 Scale: 1 : 5



3 SECTION DETAIL AT ENTRANCE
A527 Scale: 1 : 5

| No. | ISSUANCE | DATE |
|-----|-------------------|------------|
| 1 | Issued for Tender | 2024-11-25 |

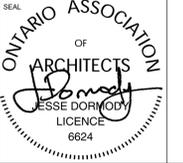
CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
SECTION DETAILS - ENVELOPE

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| | |
|---------------------|----------------|
| SCALE: 1 : 5 | SHEET NO: A527 |
| DATE: 05/26/20 | |
| PROJECT NO: 2301 | |
| DRAWN BY: Author | |
| CHECKED BY: Checker | |

| No. | ISSUANCE | DATE |
|-----|-------------------|------------|
| 1 | Issued for Tender | 2024-11-25 |

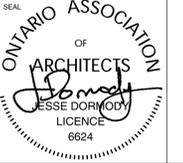
CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
ENTRANCE CANOPY DETAILS

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Baird Sampson Neurt

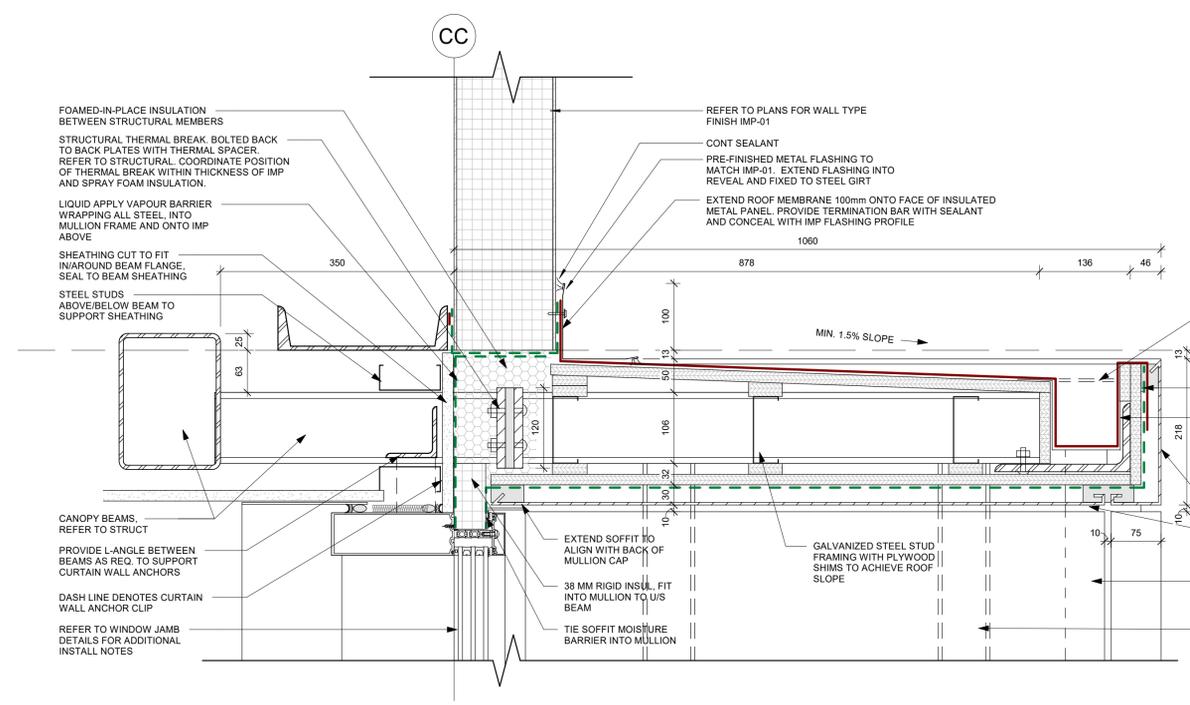
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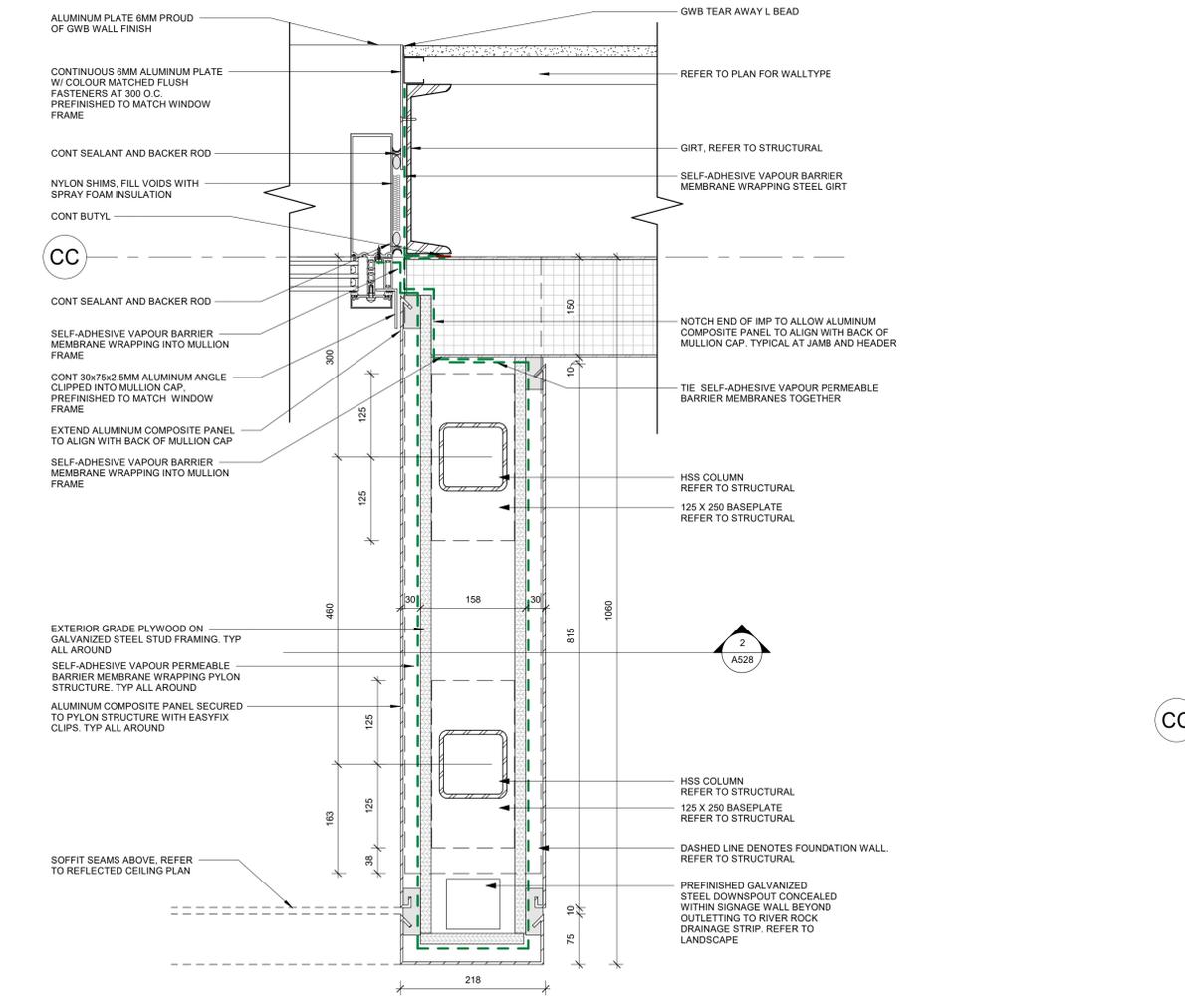
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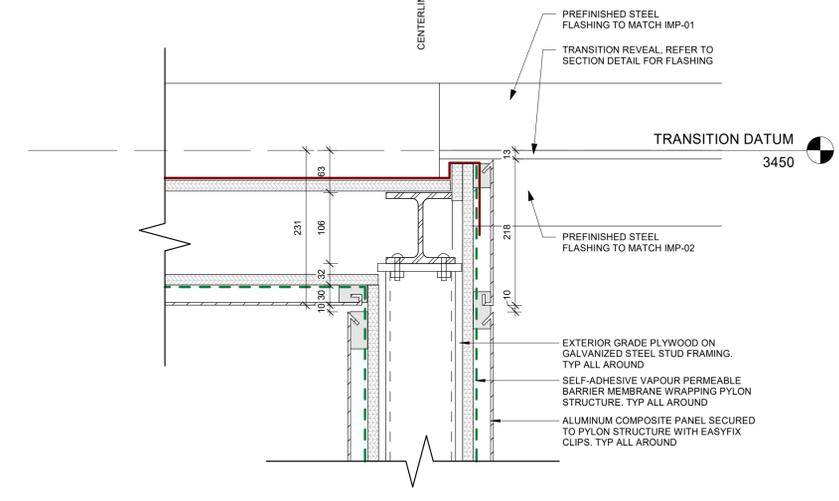
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| SCALE: As indicated | SHEET NO: |
| DATE: 05/26/20 | A528 |
| PROJECT NO: 2301 | |
| DRAWN BY: AM | |
| CHECKED BY: Checker | |



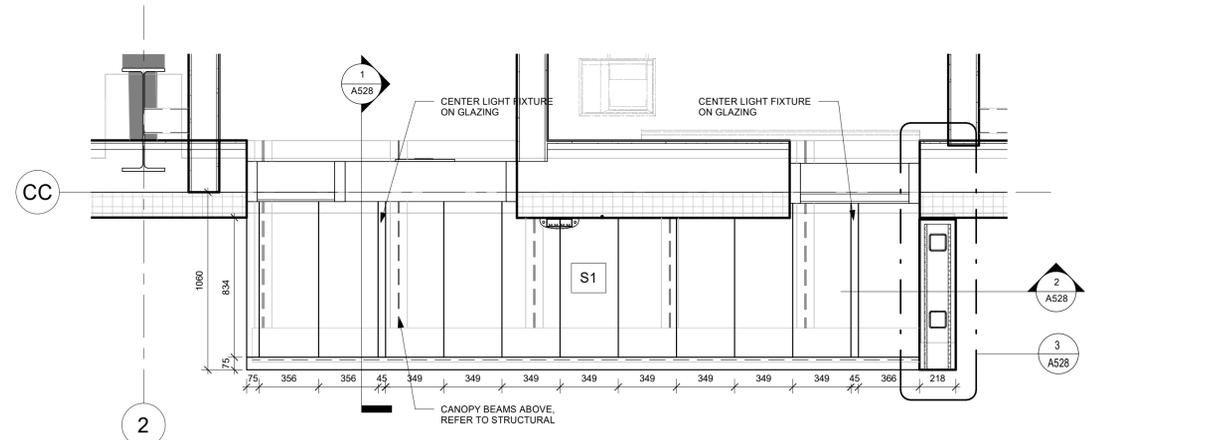
1 SECTION DETAIL AT ENTRY CANOPY
A528 Scale: 1 : 5



3 PLAN DETAIL AT ENTRY CANOPY SIGNAGE WALL
A528 Scale: 1 : 5



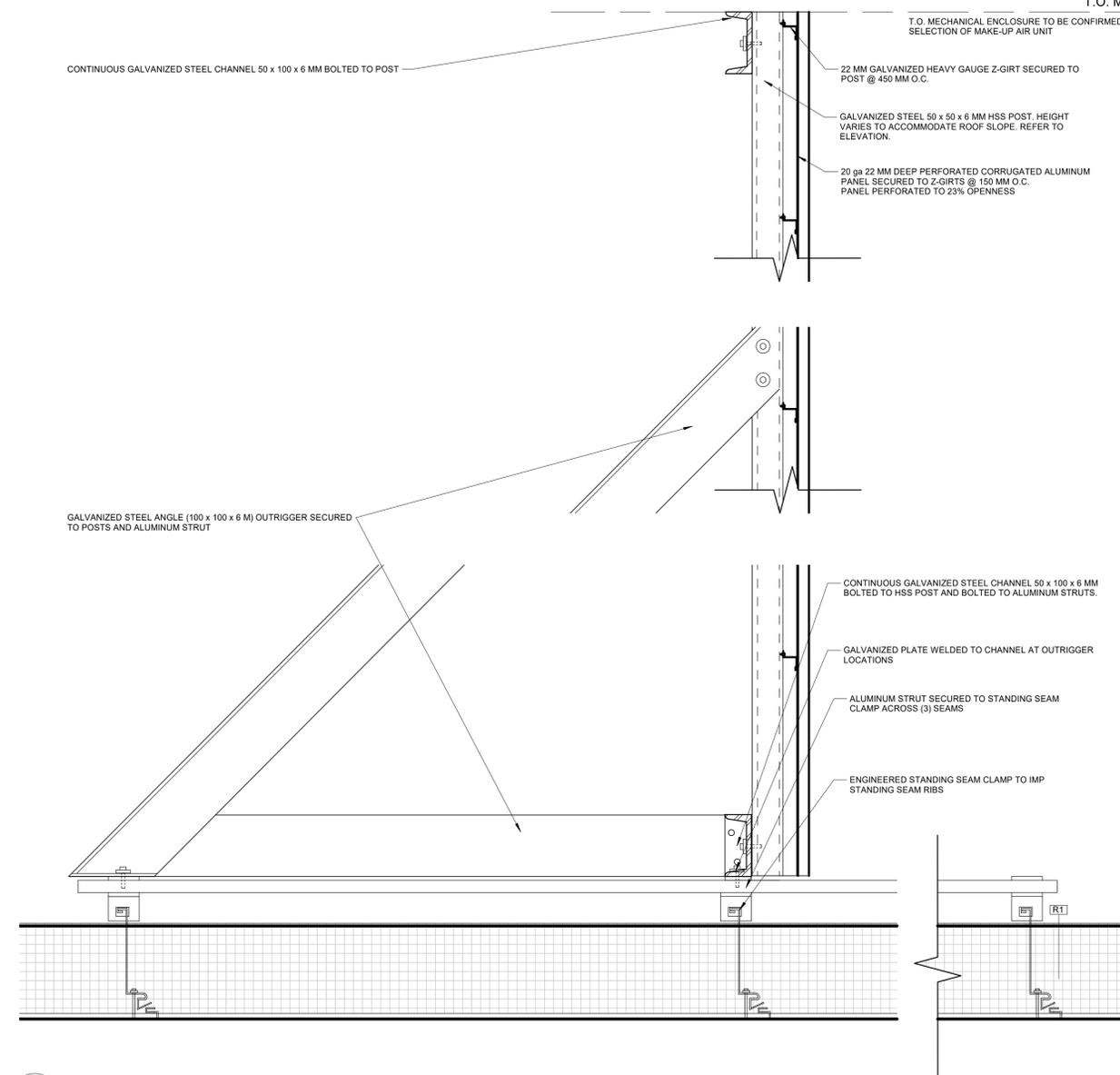
2 SECTION DETAIL AT ENTRY CANOPY SIGNAGE WALL
A528 Scale: 1 : 5



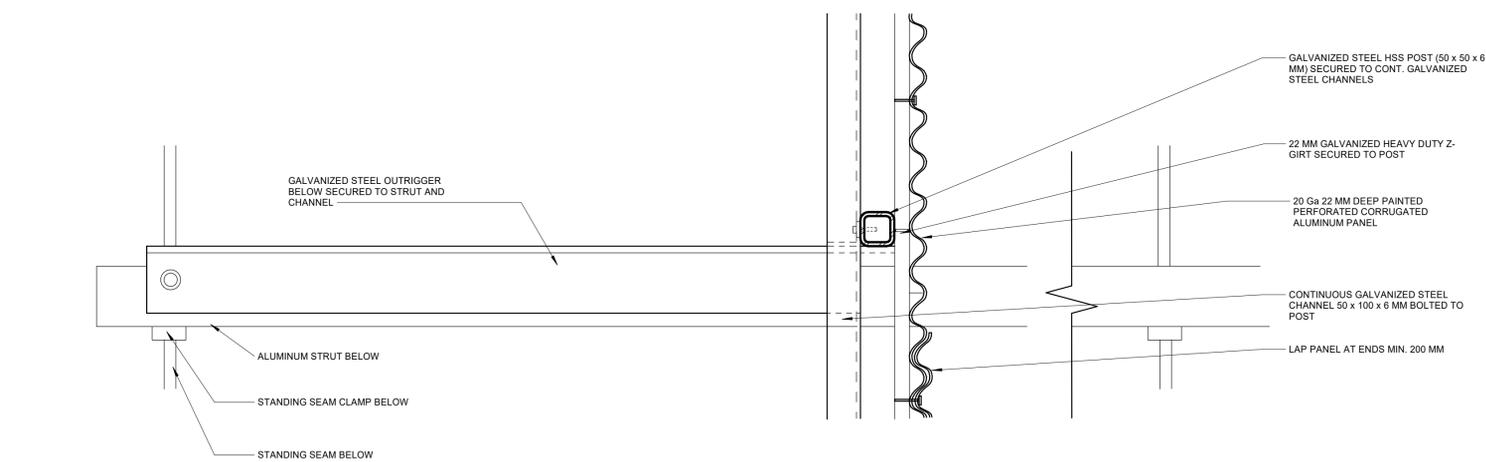
4 ENTRY CANOPY REFLECTED CEILING PLAN
A528 Scale: 1 : 20

T.O. MECH.ENCL. 8240

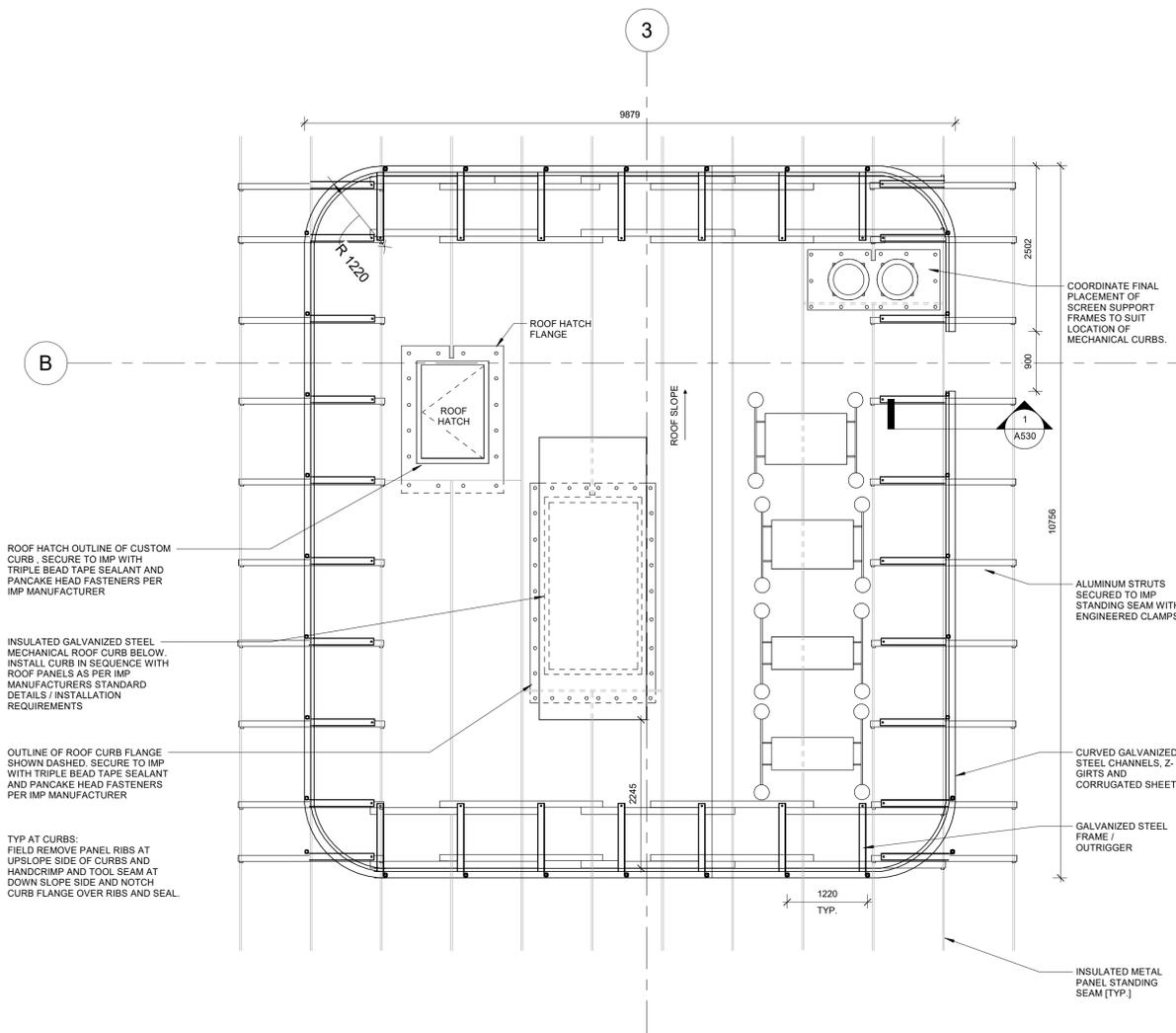
T.O. MECHANICAL ENCLOSURE TO BE CONFIRMED UPON SELECTION OF MAKE-UP AIR UNIT



1 SECTION DETAIL AT MECHANICAL ENCLOSURE
A530 Scale: 1 : 5



3 PLAN DETAIL AT MECHANICAL ENCLOSURE
A530 Scale: 1 : 5



2 ENLARGED PLAN - ROOF TOP ENCLOSURE
A530 Scale: 1 : 50

CLIENT LOGO



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| No. | ISSUANCE | DATE |
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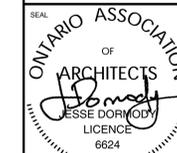
PROJECT
Pre-Engineered Building

3265 Principal's Road, Mississauga, Ontario

TITLE
ROOF TOP ENCLOSURE DETAILS

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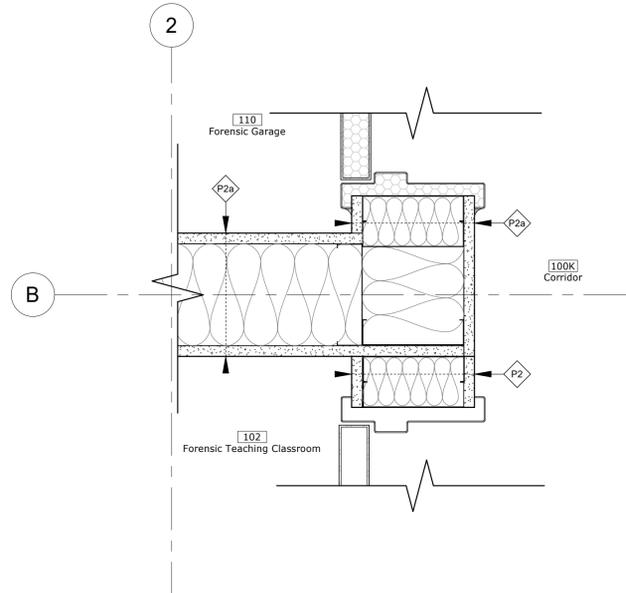
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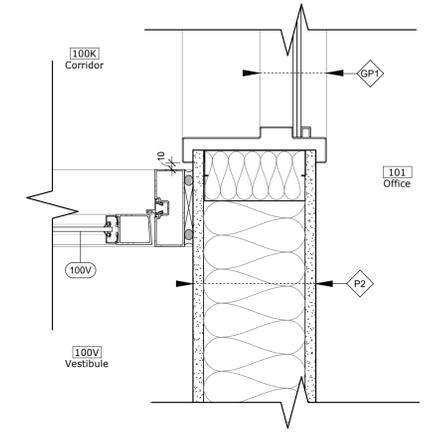
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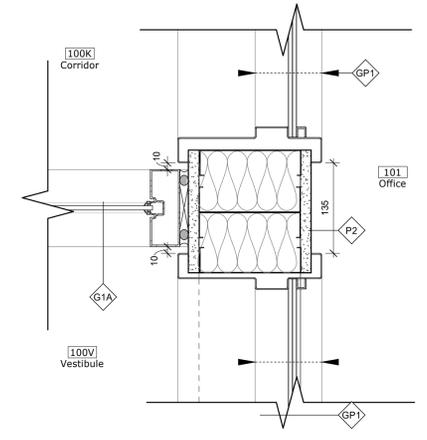
| SCALE: | As Indicated | SHEET NO.: |
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| PROJECT NO.: | 2301 | |
| DRAWN BY: | Author | |
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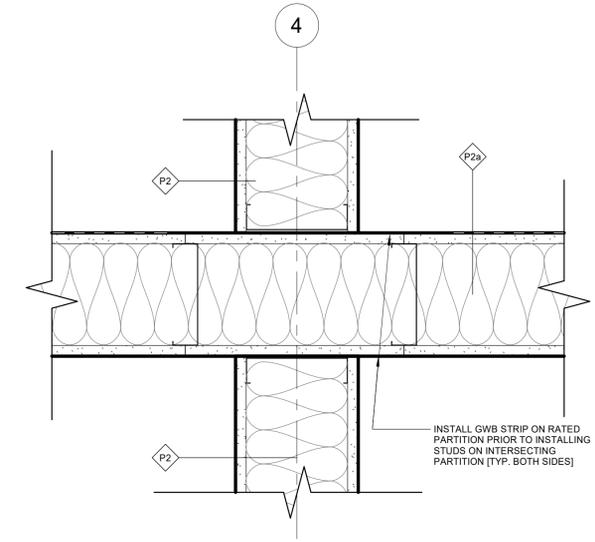
1 PLAN DETAIL - P2 / P2A CONNECTION
 A601 Scale: 1 : 5



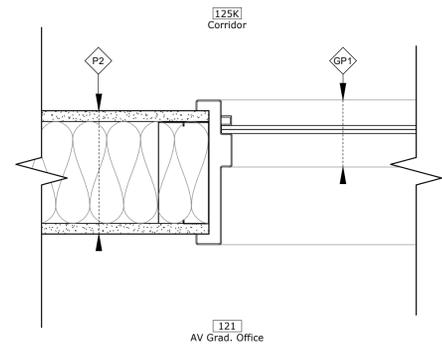
2 PLAN DETAIL - INTERIOR VESTIBULE
 A601 Scale: 1 : 5



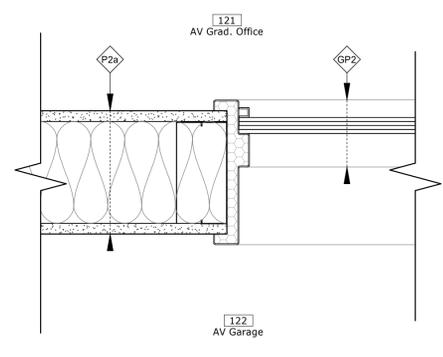
3 PLAN DETAIL - INTERIOR VESTIBULE AT TRANSOM
 A601 Scale: 1 : 5



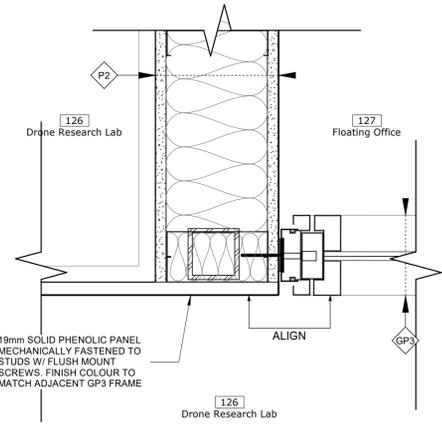
4 PLAN DETAIL - FIRE-RATED PARTITION INTERSECTION
 A601 Scale: 1 : 5



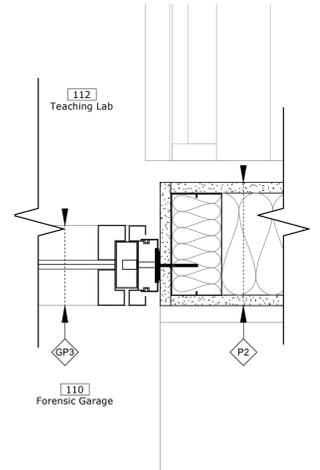
5 PLAN DETAIL - INTERIOR WINDOW GP1
 A601 Scale: 1 : 5



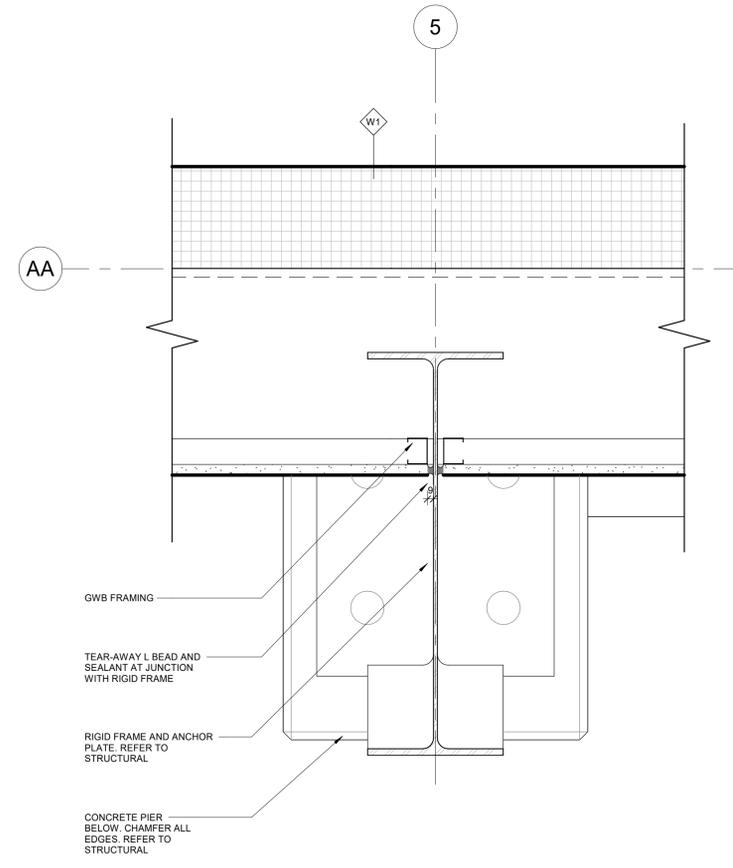
6 PLAN DETAIL - INTERIOR FIRE-RATED WINDOW GP2
 A601 Scale: 1 : 5



7 PLAN DETAIL - GL3 @ CROBE OFFICE
 A601 Scale: 1 : 5



8 PLAN DETAIL - GL3 @ TEACHING LAB
 A601 Scale: 1 : 5



9 PLAN DETAIL AT RIGID FRAME
 A601 Scale: 1 : 5

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|-----|-------------------|------------|
| 1 | Issued for Tender | 2024-11-25 |

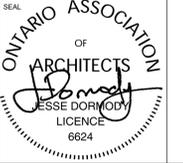
CLIENT
 University of Toronto Mississauga

PROJECT
 Pre-Engineered Building
 3265 Principal's Road, Mississauga, Ontario

TITLE
 PLAN DETAILS - INTERIOR

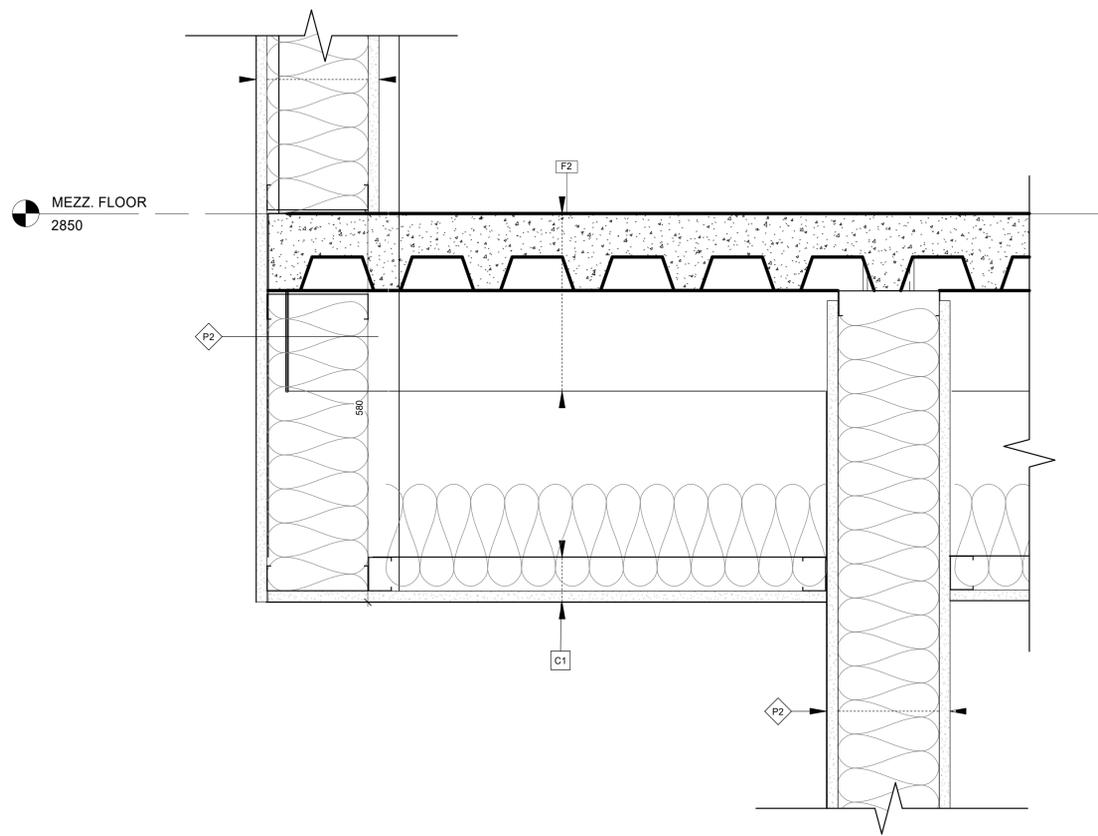
architects
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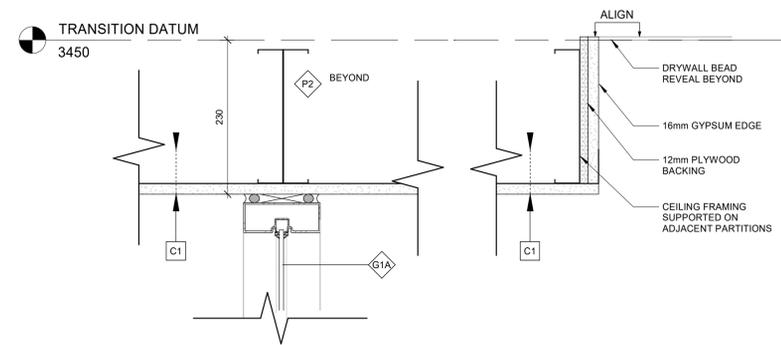


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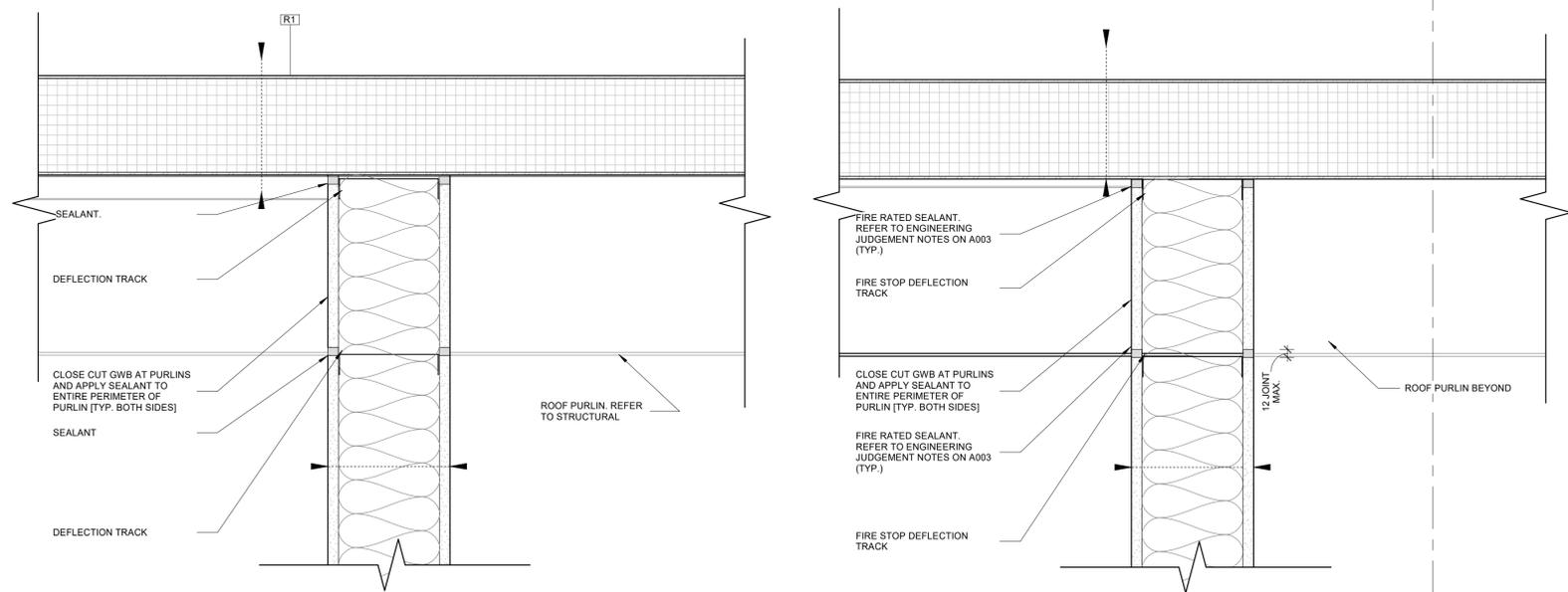
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| SCALE: 1 : 5 | SHEET NO: A601 |
| DATE: 05/26/20 | |
| PROJECT NO: 2301 | |
| DRAWN BY: Author | |
| CHECKED BY: Checker | |



1 SECTION DETAIL - MEZZANINE OVERHANG
A602 Scale: 1 : 5

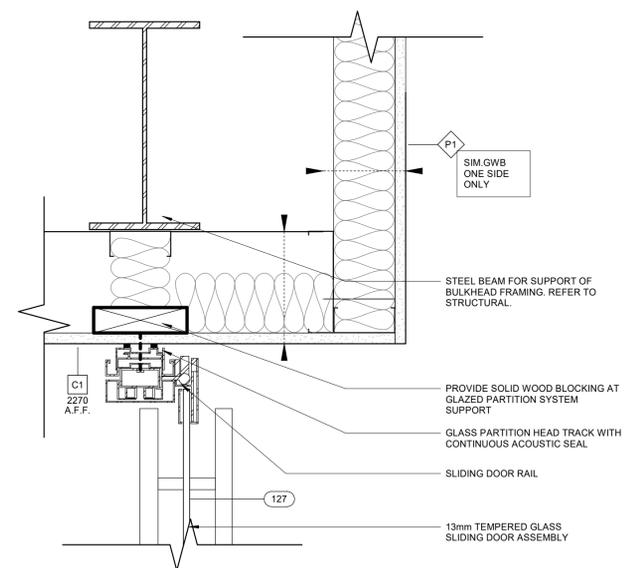


2 SECTION DETAIL - VESTIBULE CEILING
A602 Scale: 1 : 5



3 SECTION DETAIL - TYPICAL PARTITION AT ROOF
A602 Scale: 1 : 5

4 SECTION DETAIL - TYPICAL FIRE-RATED PARTITION AT ROOF
A602 Scale: 1 : 5



5 SECTION DETAIL - BULKHEAD @ FLOATING OFFICE
A602 Scale: 1 : 5

| No. | ISSUANCE | DATE |
|-----|-------------------|------------|
| 1 | Issued for Tender | 2024-11-25 |

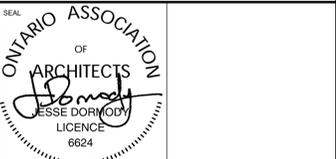
CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
SECTION DETAILS - INTERIOR

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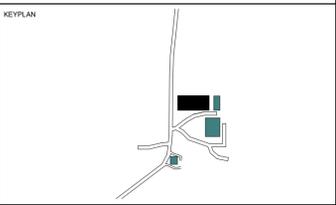
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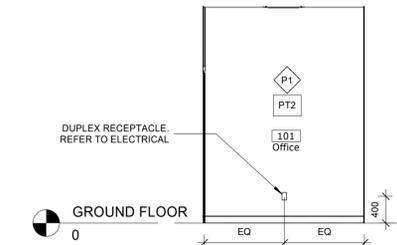
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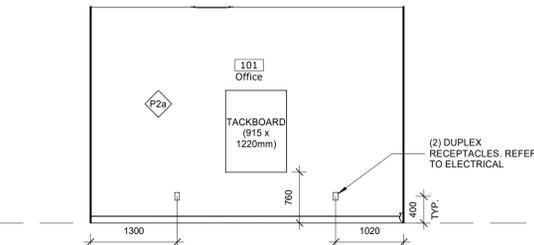
| SCALE: | 1 : 5 | SHEET NO.: |
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| DRAWN BY: | Author | |
| CHECKED BY: | Checker | |



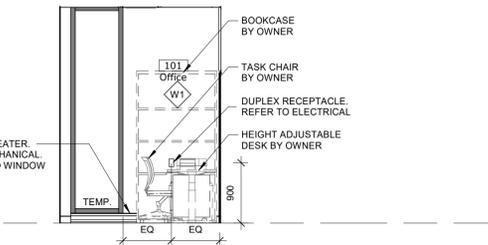
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|-----|---------------------------------------|------------|
| 1 | Issued for Design Development Costing | 2024-03-28 |
| 2 | Issued for Tender | 2024-11-25 |



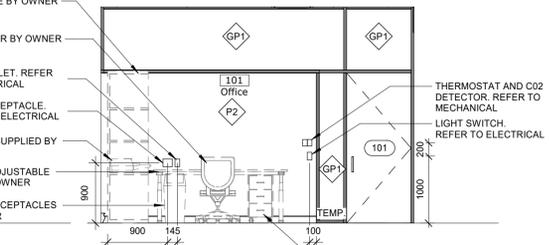
1 INT ELEV - OFFICE NORTH
A701 Scale: 1 : 50



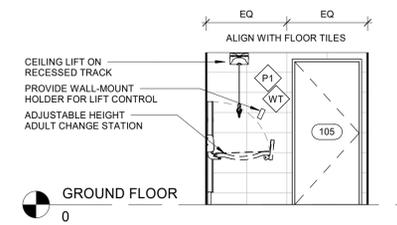
2 INT ELEV - OFFICE EAST
A701 Scale: 1 : 50



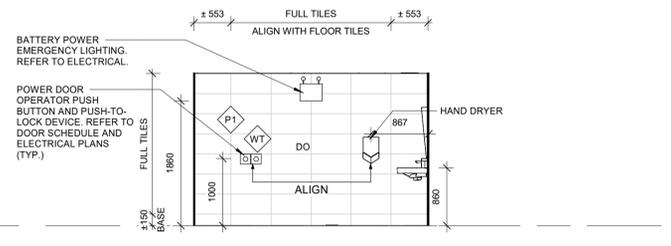
3 INT ELEV - OFFICE SOUTH
A701 Scale: 1 : 50



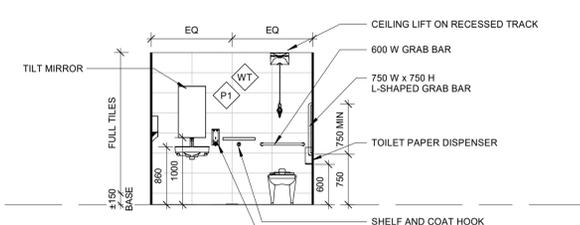
4 INT ELEV - OFFICE WEST
A701 Scale: 1 : 50



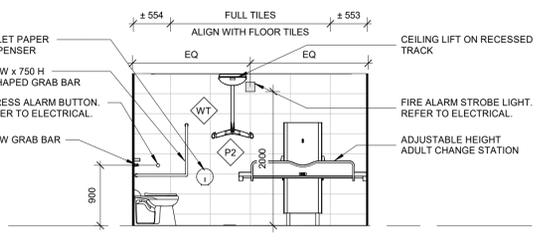
5 INT ELEV - UNIVERSAL WASHROOM NORTH
A701 Scale: 1 : 50



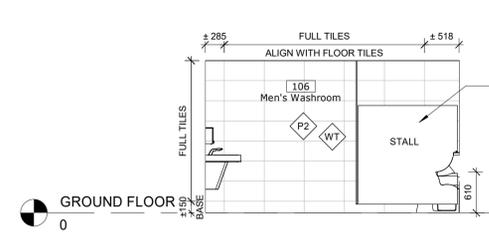
6 INT ELEV - UNIVERSAL WASHROOM EAST
A701 Scale: 1 : 50



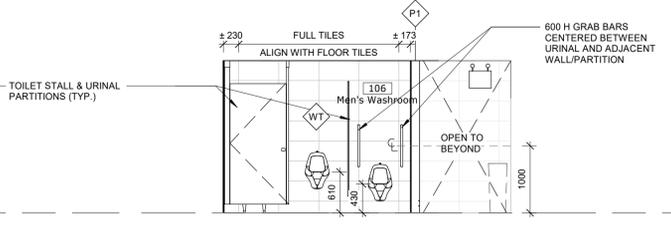
7 INT ELEV - UNIVERSAL WASHROOM SOUTH
A701 Scale: 1 : 50



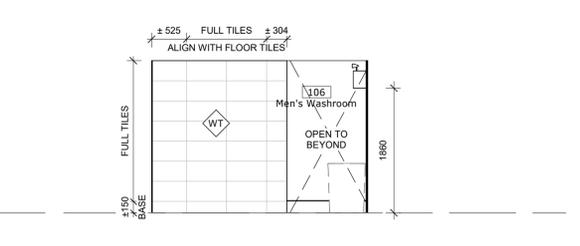
8 INT ELEV - UNIVERSAL WASHROOM WEST
A701 Scale: 1 : 50



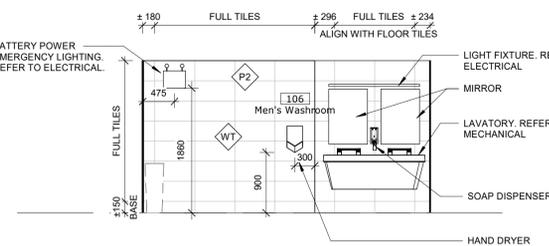
9 INT ELEV - MEN'S WASHROOM NORTH
A701 Scale: 1 : 50



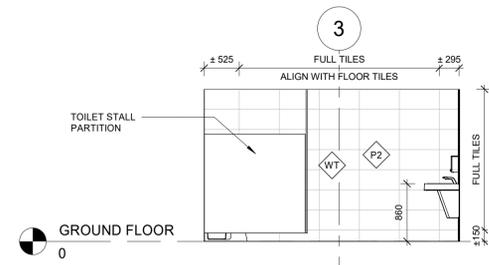
10 INT ELEV - MEN'S WASHROOM EAST
A701 Scale: 1 : 50



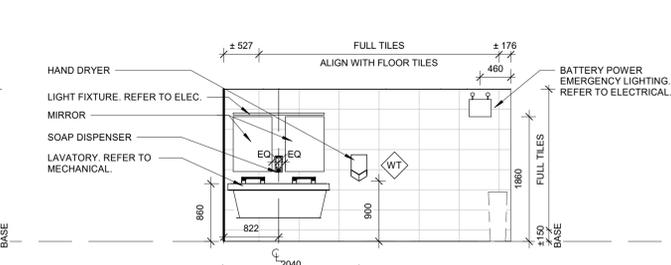
11 INT ELEV - MEN'S WASHROOM SOUTH
A701 Scale: 1 : 50



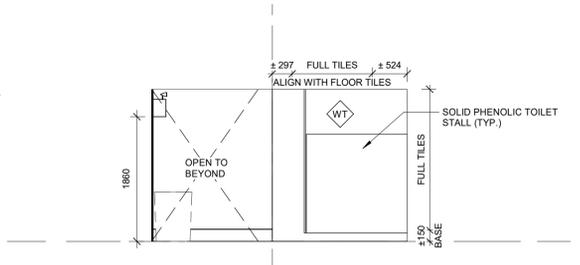
12 INT ELEV - MEN'S WASHROOM WEST
A701 Scale: 1 : 50



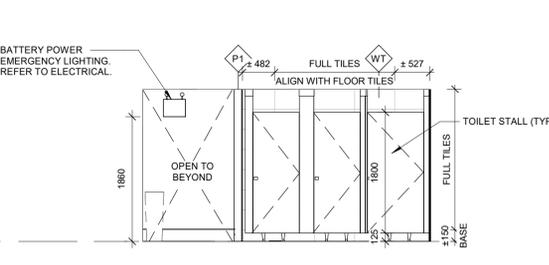
13 INT ELEV - WOMEN'S WASHROOM NORTH
A701 Scale: 1 : 50



14 INT ELEV - WOMEN'S WASHROOM EAST
A701 Scale: 1 : 50



15 INT ELEV - WOMEN'S WASHROOM SOUTH
A701 Scale: 1 : 50



16 INT ELEV - WOMEN'S WASHROOM WEST
A701 Scale: 1 : 50

CLIENT
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PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

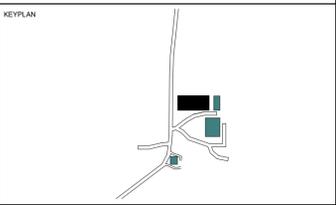
TITLE
INTERIOR ELEVATIONS

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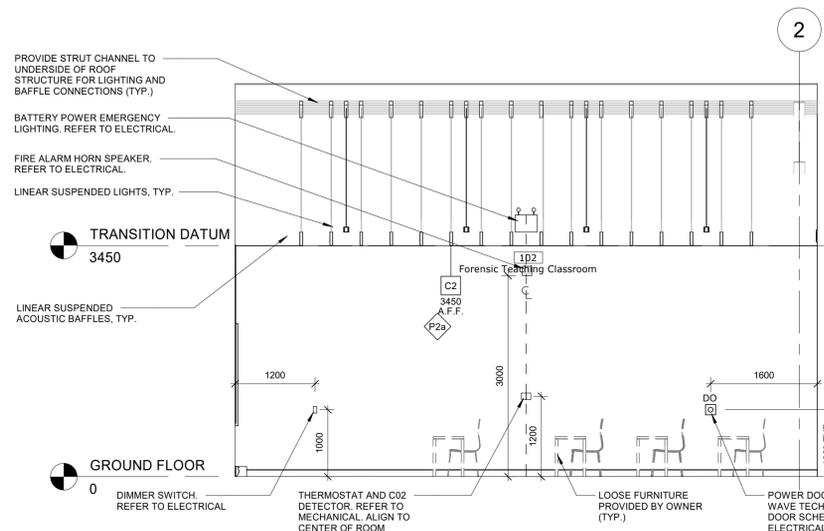


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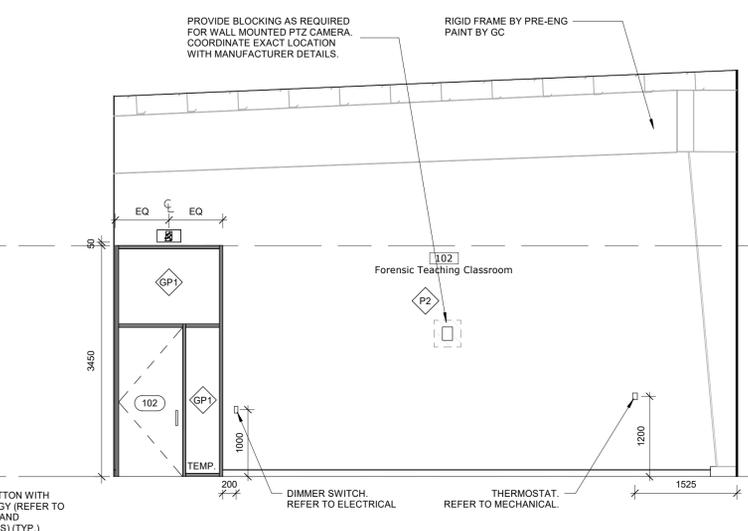
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| SCALE: | 1 : 50 | SHEET NO.: | A701 |
| DATE: | 02/22/24 | | |
| PROJECT NO.: | 2301 | | |
| DRAWN BY: | Author | | |
| CHECKED BY: | Checker | | |



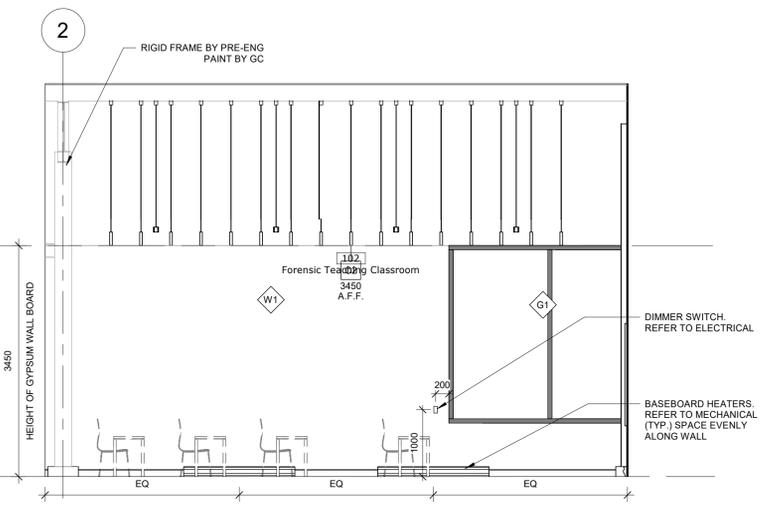
| No. | ISSUANCE | DATE |
|-----|---------------------------------------|------------|
| 1 | Issued for Design Development Costing | 2024-03-28 |
| 2 | Issued for Tender | 2024-11-25 |



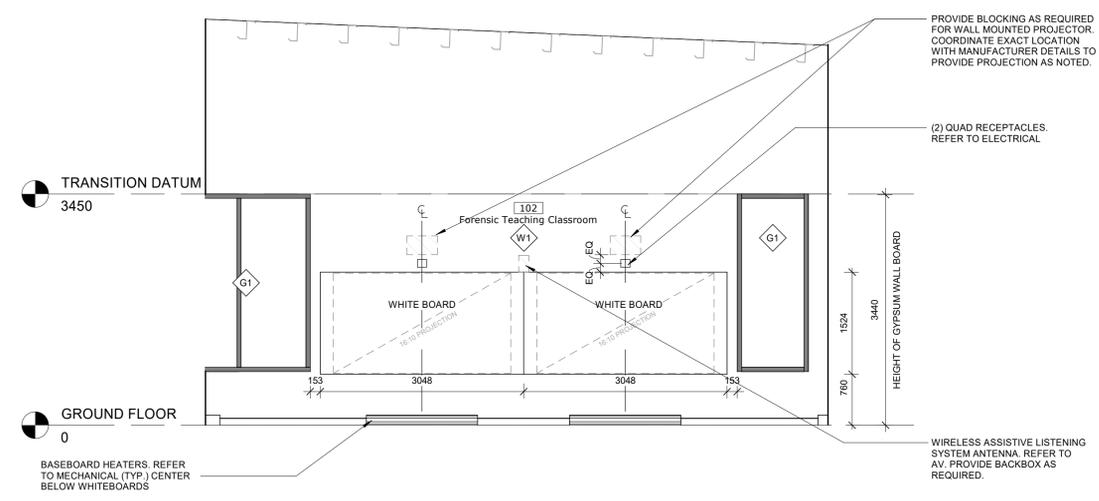
1 INT ELEV - TEACHING CLASSROOM NORTH
 A702 Scale: 1 : 50



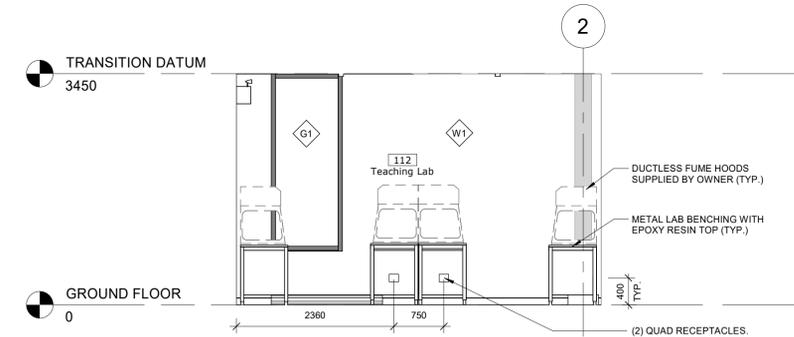
2 INT ELEV - TEACHING CLASSROOM EAST
 A702 Scale: 1 : 50



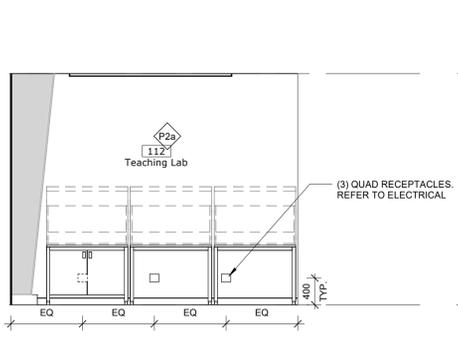
3 INT ELEV - TEACHING CLASSROOM SOUTH
 A702 Scale: 1 : 50



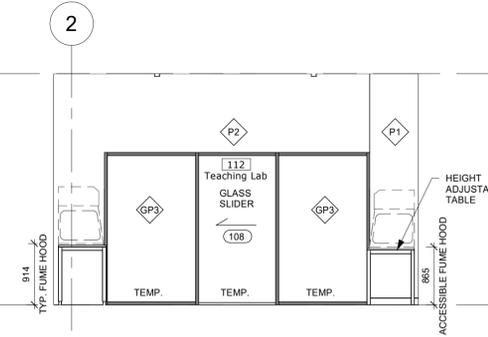
4 INT ELEV - TEACHING CLASSROOM WEST
 A702 Scale: 1 : 50



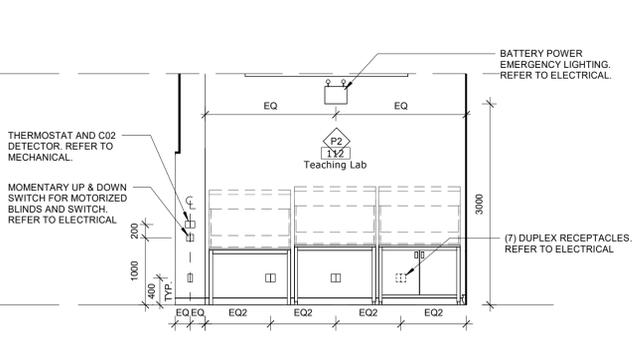
5 INT ELEV - FSC TEACHING LAB NORTH
 A702 Scale: 1 : 50



6 INT ELEV - FSC TEACHING LAB EAST
 A702 Scale: 1 : 50



7 INT ELEV - FSC TEACHING LAB SOUTH
 A702 Scale: 1 : 50



8 INT ELEV - FSC TEACHING LAB WEST
 A702 Scale: 1 : 50

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PROJECT
 Pre-Engineered Building
 3265 Principal's Road, Mississauga, Ontario

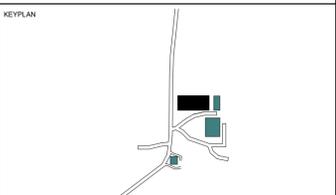
TITLE
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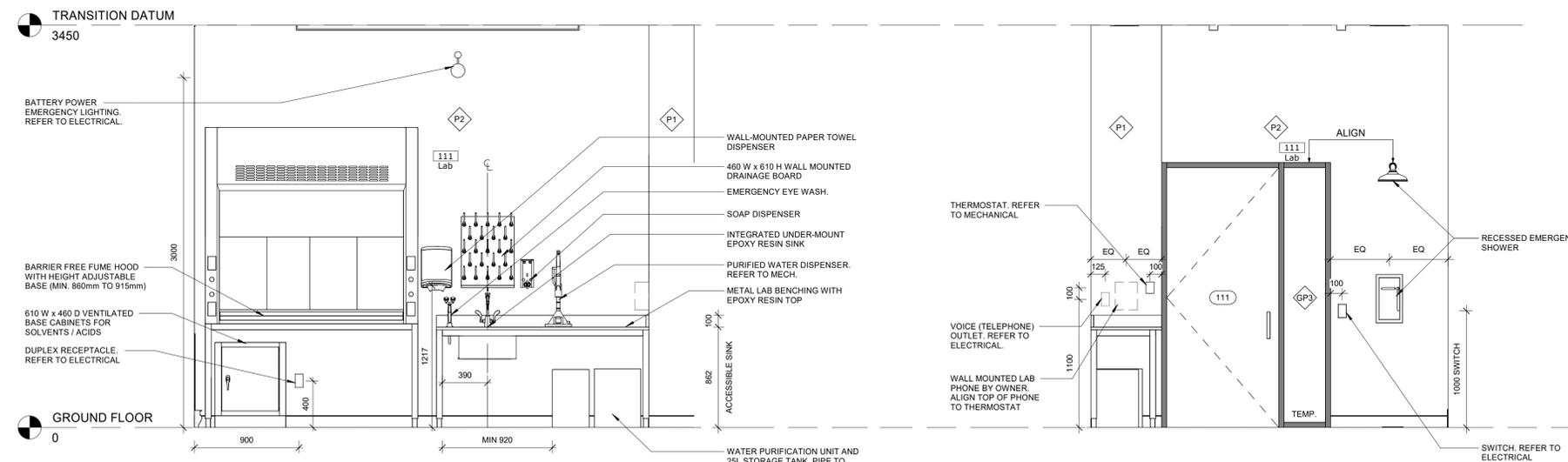
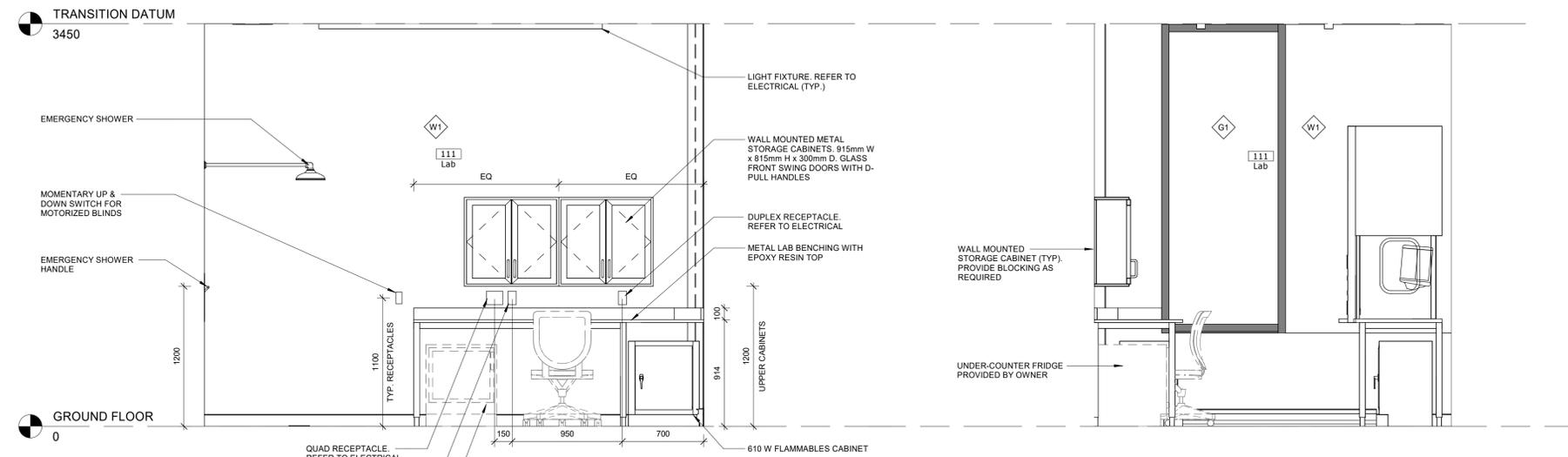


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|---------------------|-----------------------|
| SCALE: 1 : 50 | SHEET NO: A702 |
| DATE: 02/22/24 | |
| PROJECT NO: 2301 | |
| DRAWN BY: Author | |
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| No. | ISSUANCE | DATE |
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| 1 | Issued for Design Development Costing | 2024-03-28 |
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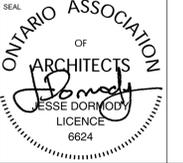
CLIENT
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Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
INTERIOR ELEVATIONS

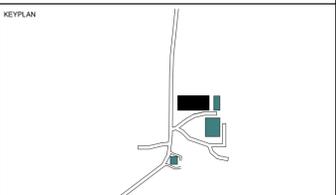
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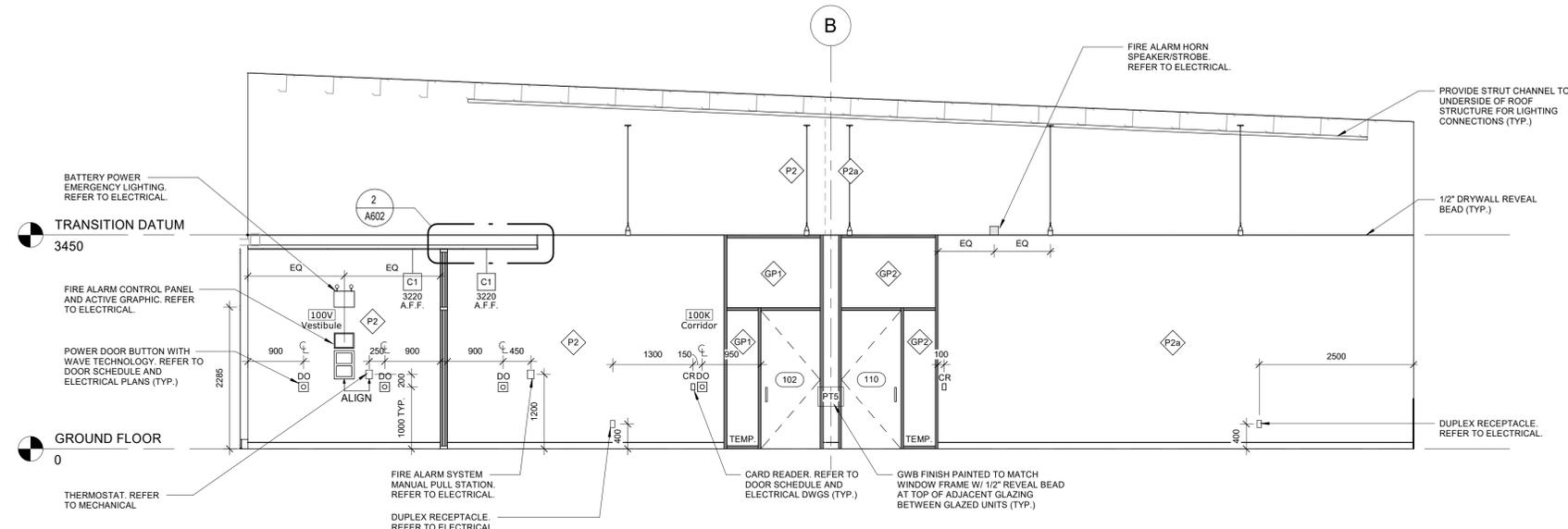


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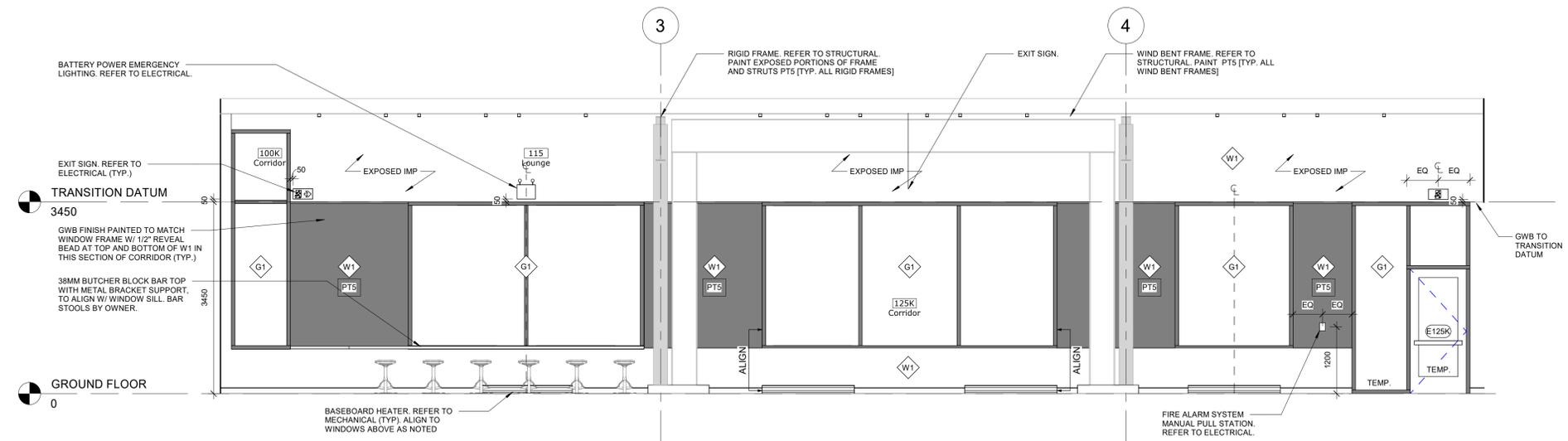
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| SCALE: | 1 : 25 | SHEET NO.: | A704 |
| DATE: | 02/13/24 | | |
| PROJECT NO.: | 2301 | | |
| DRAWN BY: | Author | | |
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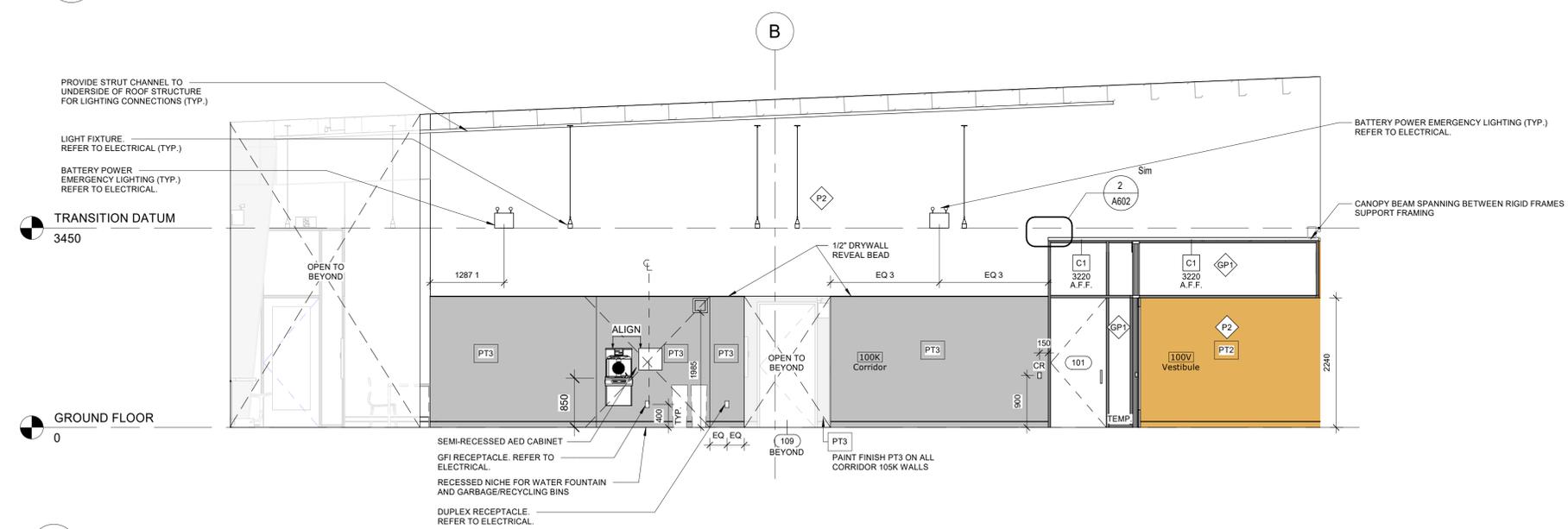
| No. | ISSUANCE | DATE |
|-----|---------------------------------------|------------|
| 1 | Issued for Design Development Costing | 2024-03-28 |
| 2 | Issued for Tender | 2024-11-25 |



1 INT ELEV - CORRIDOR WEST
A705 Scale: 1 : 50



2 INT ELEV - CORRIDOR NORTH
A705 Scale: 1 : 50



3 INT ELEV - CORRIDOR EAST
A705 Scale: 1 : 50

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Pre-Engineered Building
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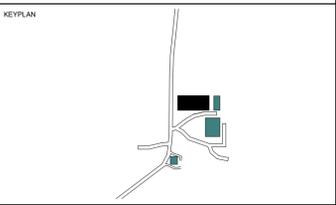
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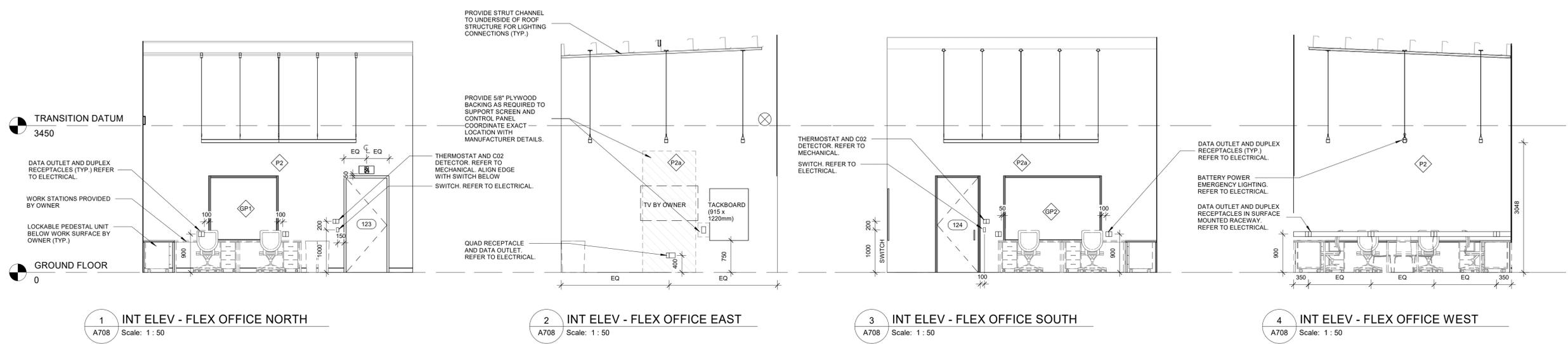
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| SCALE: | 1 : 50 | SHEET NO.: |
|--------------|----------|-------------|
| DATE: | 02/13/24 | A705 |
| PROJECT NO.: | 2301 | |
| DRAWN BY: | Author | |
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| No. | ISSUANCE | DATE |
|-----|---------------------------------------|------------|
| 1 | Issued for Design Development Costing | 2024-03-28 |
| 2 | Issued for Tender | 2024-11-25 |

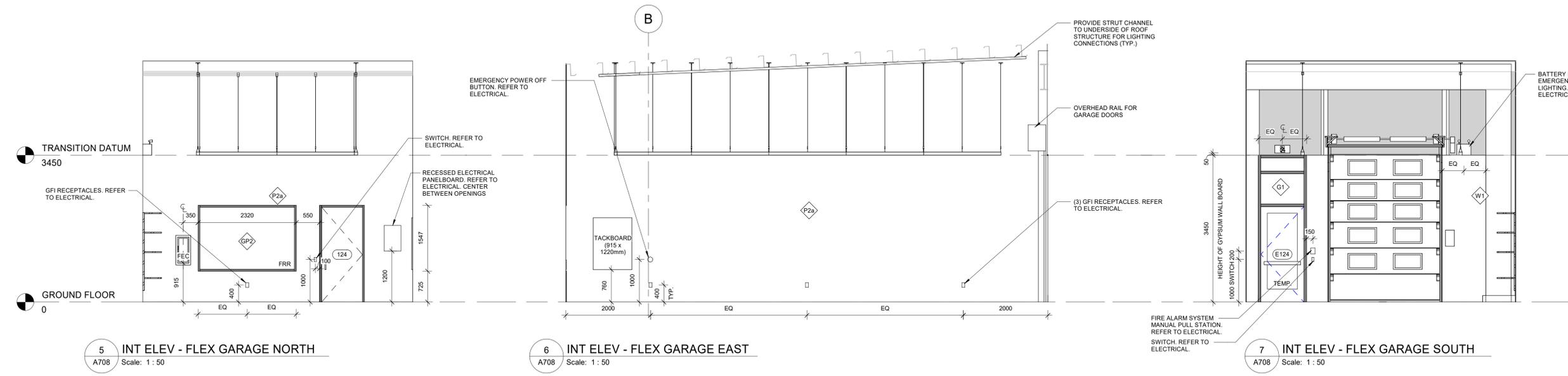


1 INT ELEV - FLEX OFFICE NORTH
A708 Scale: 1 : 50

2 INT ELEV - FLEX OFFICE EAST
A708 Scale: 1 : 50

3 INT ELEV - FLEX OFFICE SOUTH
A708 Scale: 1 : 50

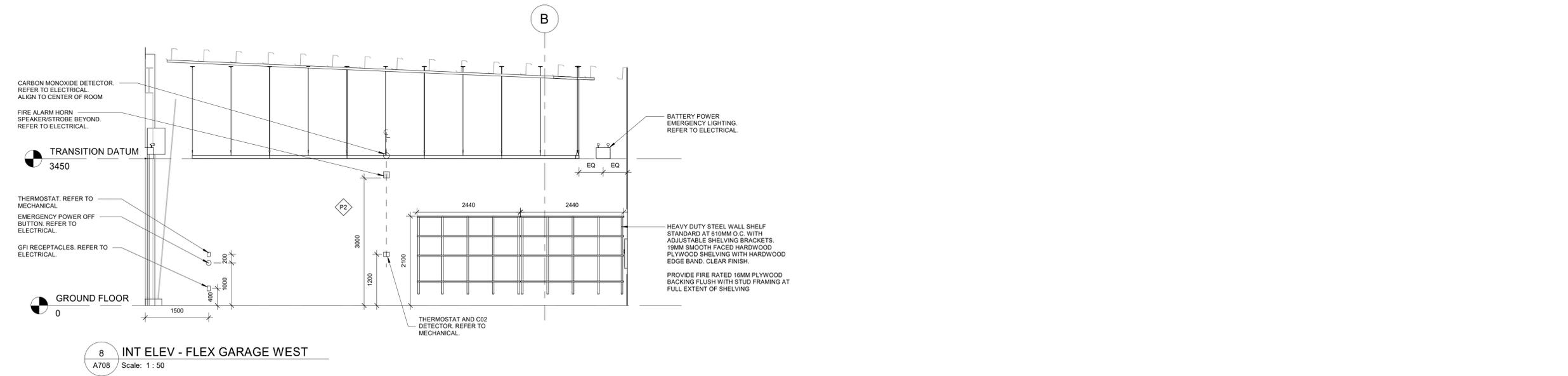
4 INT ELEV - FLEX OFFICE WEST
A708 Scale: 1 : 50



5 INT ELEV - FLEX GARAGE NORTH
A708 Scale: 1 : 50

6 INT ELEV - FLEX GARAGE EAST
A708 Scale: 1 : 50

7 INT ELEV - FLEX GARAGE SOUTH
A708 Scale: 1 : 50



8 INT ELEV - FLEX GARAGE WEST
A708 Scale: 1 : 50

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Pre-Engineered Building
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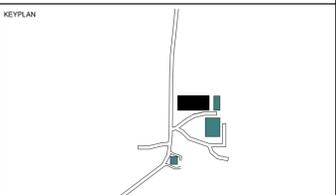
TITLE
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|--------------|----------|------------|------|
| SCALE: | 1 : 50 | SHEET NO.: | A708 |
| DATE: | 02/22/24 | | |
| PROJECT NO.: | 2301 | | |
| DRAWN BY: | Author | | |
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| No. | ISSUANCE | DATE |
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| 1 | Issued for Design Development Costing | 2024-03-28 |
| 2 | Issued for Tender | 2024-11-25 |

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Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

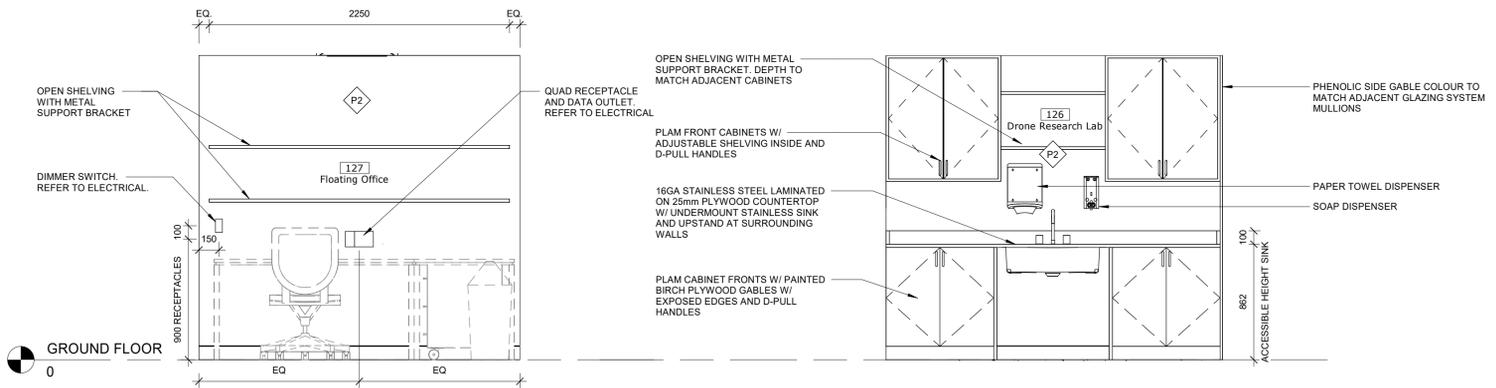
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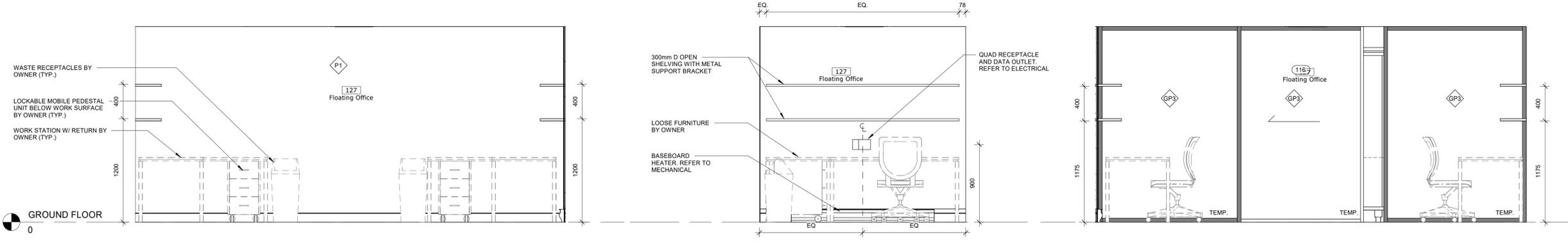
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|---------------------|-----------------------|
| SCALE: 1 : 25 | SHEET NO: A710 |
| DATE: 02/13/24 | |
| PROJECT NO: 2301 | |
| DRAWN BY: Author | |
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1 INT ELEV - FLOATING OFFICE WEST
A710 Scale: 1 : 25

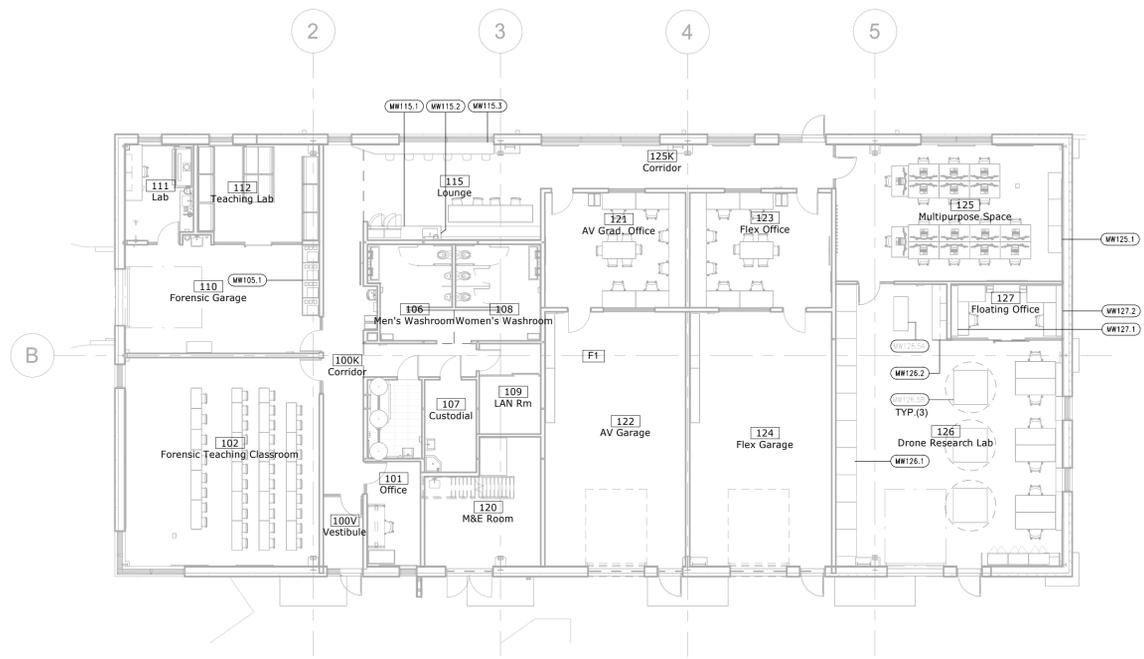
2 INT ELEV - CROBE SINK AND COUNTER
A710 Scale: 1 : 25



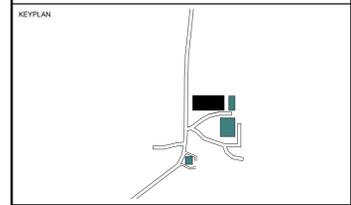
3 INT ELEV - FLOATING OFFICE NORTH
A710 Scale: 1 : 25

4 INT ELEV - FLOATING OFFICE EAST
A710 Scale: 1 : 25

5 INT ELEV - FLOATING OFFICE SOUTH
A710 Scale: 1 : 25



1 MILLWORK KEY PLAN
A801 Scale: 1 : 150



| No. | ISSUANCE | DATE |
|-----|-------------------|------------|
| 1 | Issued for Tender | 2024-11-25 |

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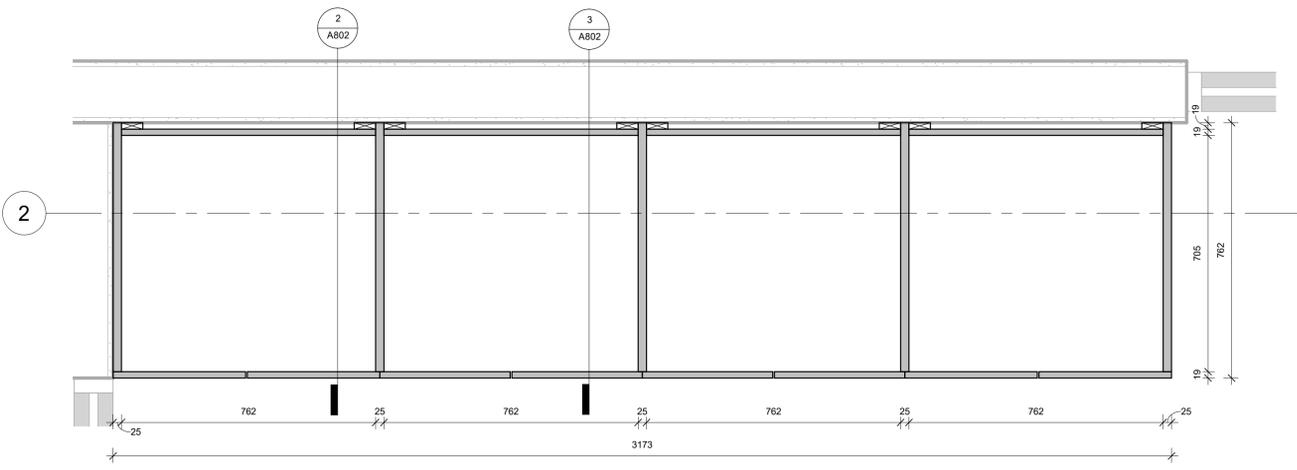
TITLE
MILLWORK SCHEDULE KEY PLAN

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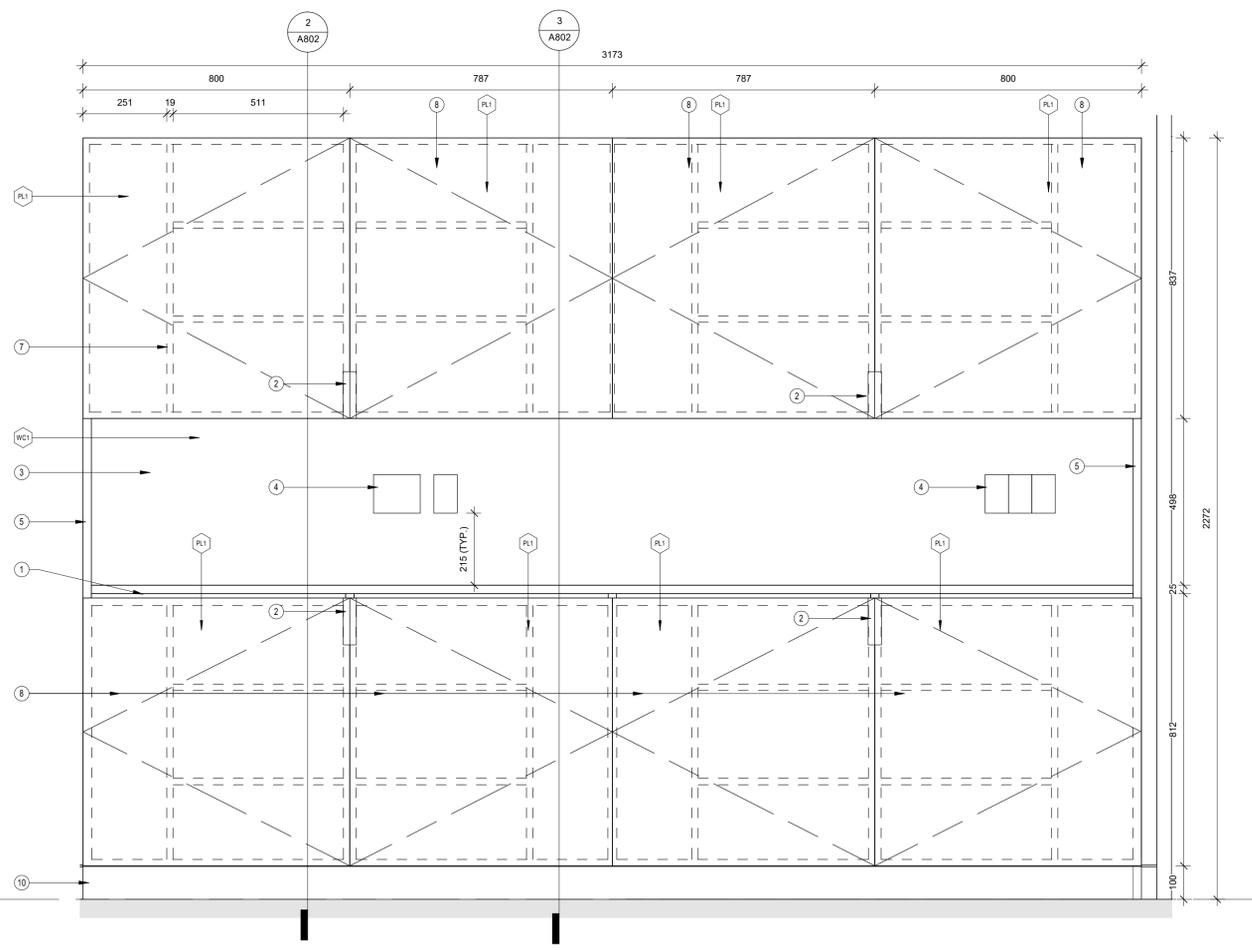


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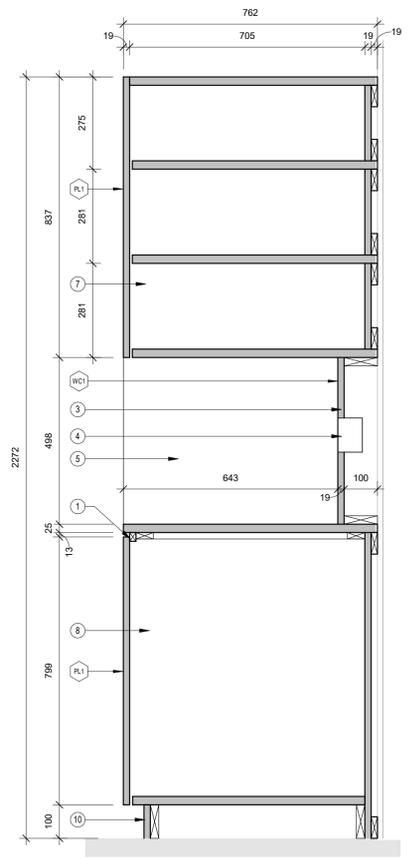
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| SCALE: | 1 : 150 | SHEET NO.: | A801 |
| DATE: | 09/26/24 | | |
| PROJECT NO.: | 2301 | | |
| DRAWN BY: | Author | | |
| CHECKED BY: | Checker | | |



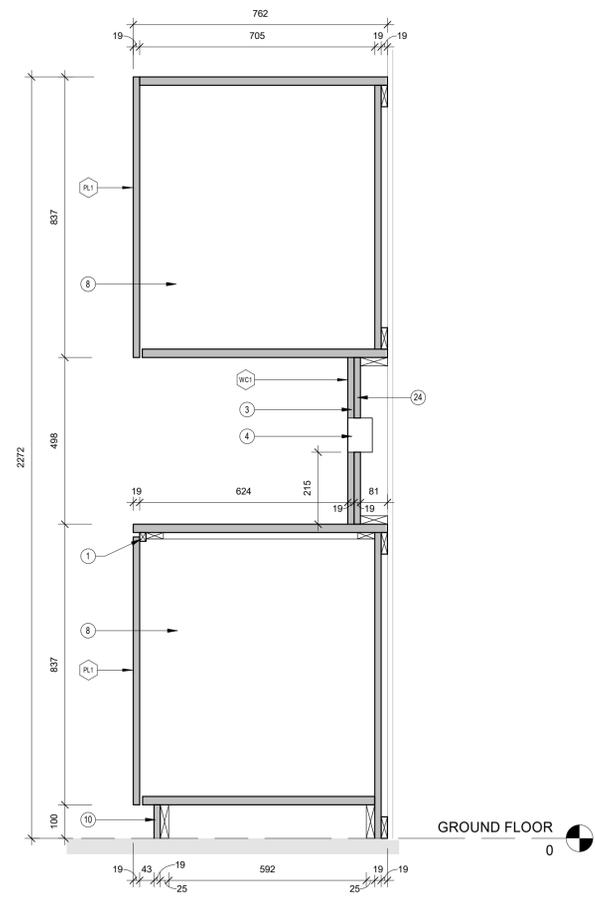
4 MW105.1 - MILLWORK PLAN
A802 Scale: 1 : 10



1 MW105.1 - MILLWORK ELEVATION
A802 Scale: 1 : 10



2 MW105.1 - MILLWORK SECTION
A802 Scale: 1 : 10



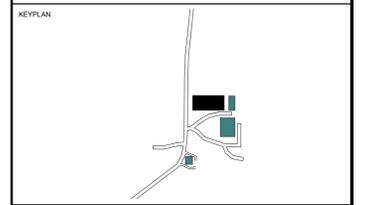
3 MW105.1 - MILLWORK SECTION
A802 Scale: 1 : 10

MILLWORK DRAWING NOTES:

- 1 13mm REVEAL BETWEEN COUNTER AND LOWER CABINETS.
- 2 EDGE PULL.
- 3 OPEN SHELF WITH 6mm PEG BOARD BACK.
- 4 RECESSED POWER/ DATA RECEPTACLE MOUNTED TO MILLWORK. REFER TO ELECTRICAL DRAWINGS FOR DETAILS.
- 5 25mm LAMINATE END GABLE.
- 6 PLAM LOCKABLE CAMERA STORAGE CABINETS. 782W x 788H CLEAR INTERIOR DIMENSION. 3 HINGES PER DOOR (TYP.)
- 7 GABLE AND FIXED SHELVES.
- 8 INNER CABINET 25mm HIGH DENSITY PARTICLE BOARD, MELAMINE FINISH. TYPICAL OF ALL CABINETS.
- 9 OPEN CABINET - NO SHELVING.
- 10 19mm PLYWOOD BASE FOR EACH UNIT C/W PLASTIC LAMINATE FINISH.
- 11 UNDERMOUNTED SINK & FAUCET. REFER TO MECHANICAL DWGS.
- 12 RECESSED SHELVING PILASTERS & ADJUSTABLE SHELVES.
- 13 CABINET DOOR D-PULL HANDLE.
- 14 FIXED OPEN SHELVING WITH METAL SUPPORT BRACKET.
- 15 STAINLESS STEEL LAMINATED ON 25mm PLYWOOD COUNTERTOP AND UPSTAND AT SURROUNDING WALLS.
- 16 PHENOLIC SIDE GABLE COLOUR TO MATCH ADJACENT GLAZING SYSTEM MULLIONS.
- 17 PAINTED PLYWOOD GABLES W/ EXPOSED EDGES.
- 18 FACE OF FRAME TO HAVE FINISH TO MATCH DOOR FRONTS.
- 19 CUT OUT IN GABLE FOR CABCOOL FAN.
- 20 CUT OUT IN GABLE BETWEEN LEFT AND RIGHT BAYS.
- 21 CUT OUT IN BOTTOM OF CABINET.
- 22 CUT OUT IN BACK OF CABINET.
- 23 LINE OF SINK BEYOND.
- 24 PLYWOOD BACK SUPPORT FOR TV (REFER TO AV AND ELECTRICAL PLANS FOR LOCATION).

MILLWORK FINISHES:

- PL1 PLASTIC LAMINATE FINISH
- SS1 SOLID SURFACE FINISH
- ST1 16GA STAINLESS STEEL
- WC1 PEG BOARD WALL COVERING



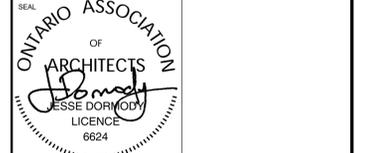
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PROJECT
Pre-Engineered Building
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TITLE
MILLWORK DRAWINGS - FORENSIC GARAGE

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|---------------------|----------------|
| SCALE: 1 : 10 | SHEET NO: A802 |
| DATE: 10/01/24 | |
| PROJECT NO: 2301 | |
| DRAWN BY: Author | |
| CHECKED BY: Checker | |

MILLWORK DRAWING NOTES:

- ① WOOD VENEER FINISH AT EXPOSED EDGES, FACES (TYP.)
- ② VINYL SEAT AND BACK CUSHION.
- ③ 25mm LAMINATE END GABLE.
- ④ 19mm PLYWOOD BASE C/W PLASTIC LAMINATE FINISH.
- ⑤ UNDERMOUNTED SINK & FAUCET. REFER TO MECHANICAL DWGS.
- ⑥ LINE OF SINK BEYOND.
- ⑦ BUTCHER BLOCK/ LIVE EDGE COUNTER. FASTEN FROM BELOW WITH METAL BRACKET.
- ⑧ WALL MOUNTED BRACKET MECHANICALLY FASTENED TO WALL WITH FLUSH FACE FASTENERS. PROVIDE SUPPORT BLOCKING AS REQUIRED.
- ⑨ FRONT PLASTIC LAMINATE FASCIA BOARD.
- ⑩ SOLID SURFACE COUNTER TOP.
- ⑪ POWER RECEPTACLE. REFER TO ELECTRICAL DRAWINGS FOR DETAILS.
- ⑫ PROVIDE SUPPORT BLOCKING WITHIN WALL FOR BRACKET AS REQUIRED.
- ⑬ PROVIDE BACKER ROD SEALANT BETWEEN GLAZING AND BUTCHER BLOCK COUNTER.

MILLWORK FINISHES:

- PL1 PLASTIC LAMINATE FINISH
- SS1 SOLID SURFACE FINISH
- SS1 16GA STAINLESS STEEL
- WCI PEG BOARD WALL COVERING

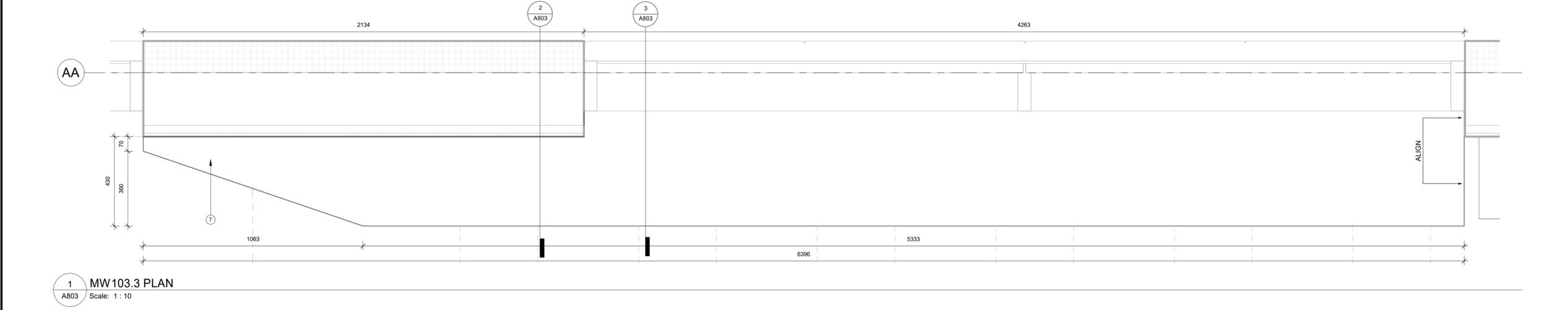
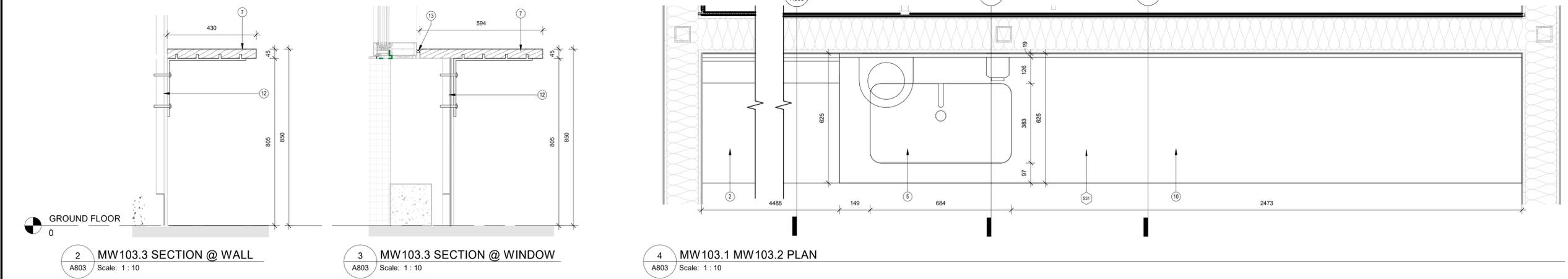
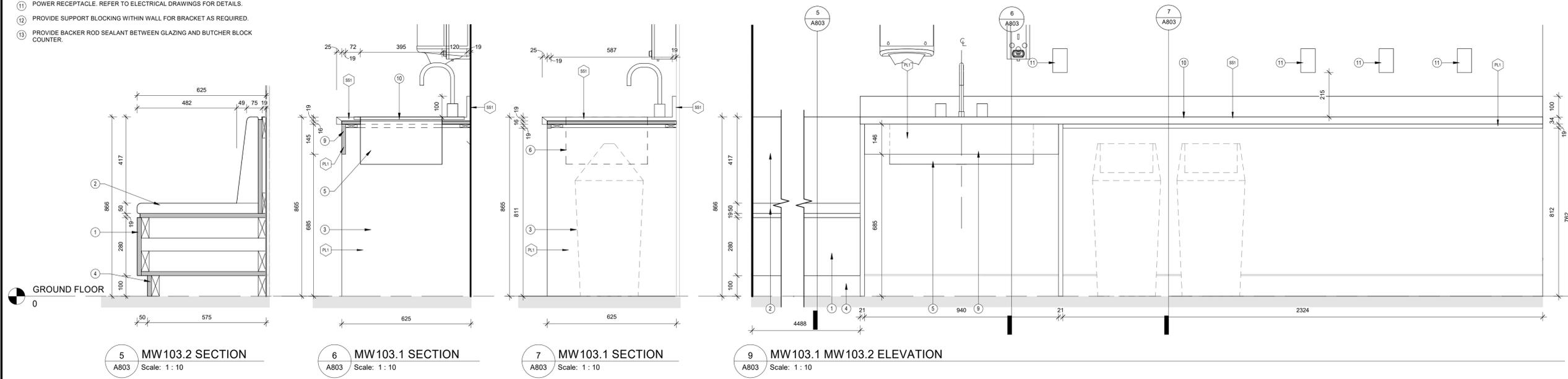
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KEYPLAN



| No. | ISSUANCE | DATE |
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| 1 | Issued for Tender | 2024-11-25 |

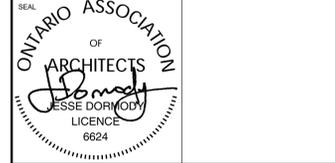


CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
MILLWORK DRAWINGS - LOUNGE

architects
Baird Sampson Neuert
416.363.8877 bsnarchitects.com



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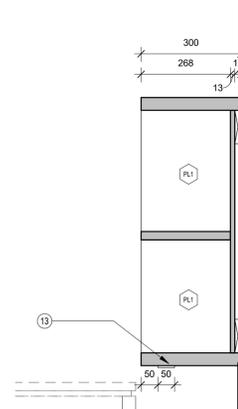
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| SCALE: 1:10 | SHEET NO: |
| DATE: 10/01/24 | A803 |
| PROJECT NO: 2301 | |
| DRAWN BY: Author | |
| CHECKED BY: Checker | |

MILLWORK DRAWING NOTES:

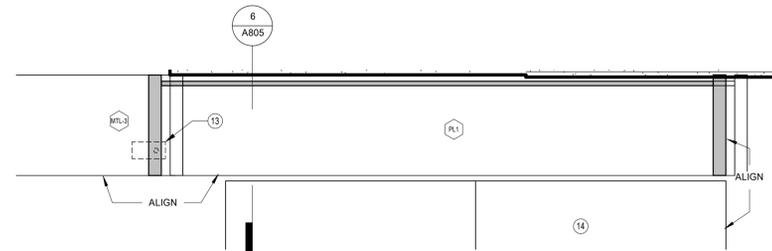
- 1 13mm REVEAL BETWEEN COUNTER AND LOWER CABINETS.
- 2 RECESSED SHELIVING PILASTERS & ADJUSTABLE SHELVES.
- 3 19mm PLYWOOD BASE FOR EACH UNIT C/W PLASTIC LAMINATE FINISH.
- 4 19mm PLAM SHELF
- 5 38mm PLAM GABLE
- 6 CELLBLOCK BATTERY CHARGING CABINET CBSC3672 [1969H x 919W x 561D]
- 7 CONT. POPLAR STRAPPING TO SUPPORT PLAM GABLE, PAINTED TO MATCH WALL COLOUR
- 8 DEPTH OF MW120.4 TO BE SET BY DEPTH OF CELLBLOCK CABINET, F/O MILLWORK AND GABLE TO BE 25MM PROUD OF CABINET
- 9 EDGE PULL - CBH 261 - 100MM - SATIN NICKEL
- 10 INNER CABINET 25mm HIGH DENSITY PARTICLE BOARD, MELAMINE FINISH. TYPICAL OF ALL CABINETS.
- 11 ALIGN FACE OF PLAM GABLE W/ INSIDE F/O JAMB EXTENSION
- 12 ALIGN EDGE OF PLAM CABINET W/ DRYWALL EDGE
- 13 EXTEND 6MM ALUMINUM POWDER COATED PLATE TO F/O CABINET, SECURE TO CABINET W/ CONCEALED ALUMINUM TAB BELOW
- 14 CLASSROOM FURNITURE (NIC) AS PER LAYOUT IN PLAN
- 15 TYPICAL DETAILS FOR PLAM OPEN CABINET IN CROBE LAB, REFER TO PLAN/INTERIOR ELEVATIONS FOR EXTENTS OF REMAINING 2 CABINETS
- 16 PAINTED HSS FRAME
- 17 S.S. WRAPPED PLYWOOD TOP
- 18 LEVELING FLOOR GLIDES FOR UNEVEN SURFACES OR FLOOR ANCHORING LEVELING FOOT PLATES AS REQUIRED. REFER TO PLANS. TYP
- 19 S.S. WRAPPED WOOD TOP

MILLWORK FINISHES:

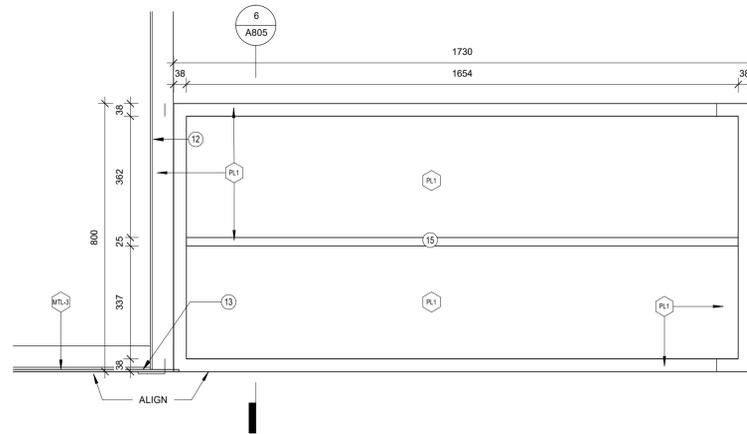
- PL1 PLASTIC LAMINATE FINISH
- BSF SOLID SURFACE FINISH
- ST1 16GA STAINLESS STEEL
- MC1 PEG BOARD WALL COVERING
- WD1 BALTIC BIRCH PLYWOOD - CLEARCOAT
- ML1 STAINLESS STEEL PLATE
- ML2 EXPANDED METAL MESH [MCNICHOLAS EXPANDED METAL MESH PANEL NO. 460N121648]
- ML3 POWDER COATED ALUMINUM PLATE



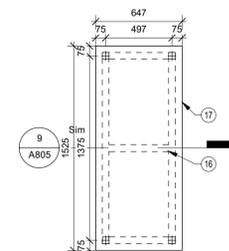
6 MW126.3 SECTION
A805 Scale: 1 : 10



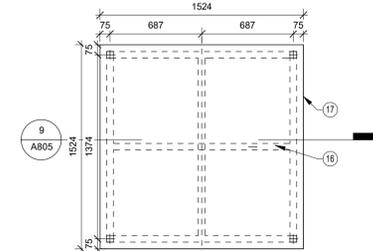
4 MW126.3 PLAN
A805 Scale: 1 : 10



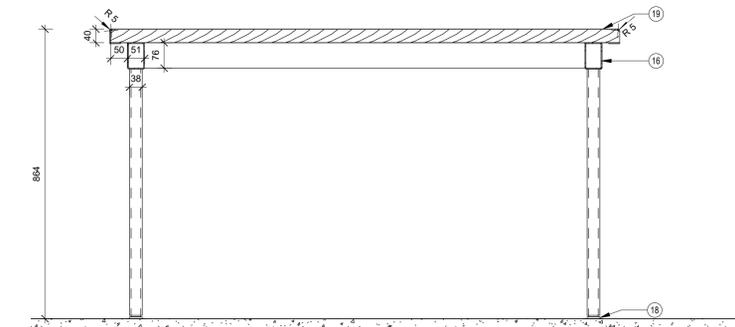
5 MW126.3 ELEVATION
A805 Scale: 1 : 10



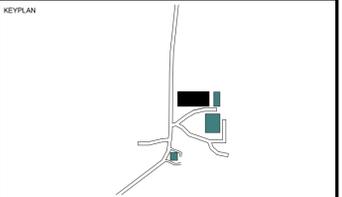
7 MW126.5A PLAN
A805 Scale: 1 : 25



8 MW126.5B PLAN
A805 Scale: 1 : 25



9 MW126.5 SECTION
A805 Scale: 1 : 10



| No. | ISSUANCE | DATE |
|-----|-------------------|------------|
| 1 | Issued for Tender | 2024-11-25 |

CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3265 Principal's Road, Mississauga, Ontario

TITLE
MILLWORK DRAWINGS - CROBE

architects
Baird Sampson Neurt

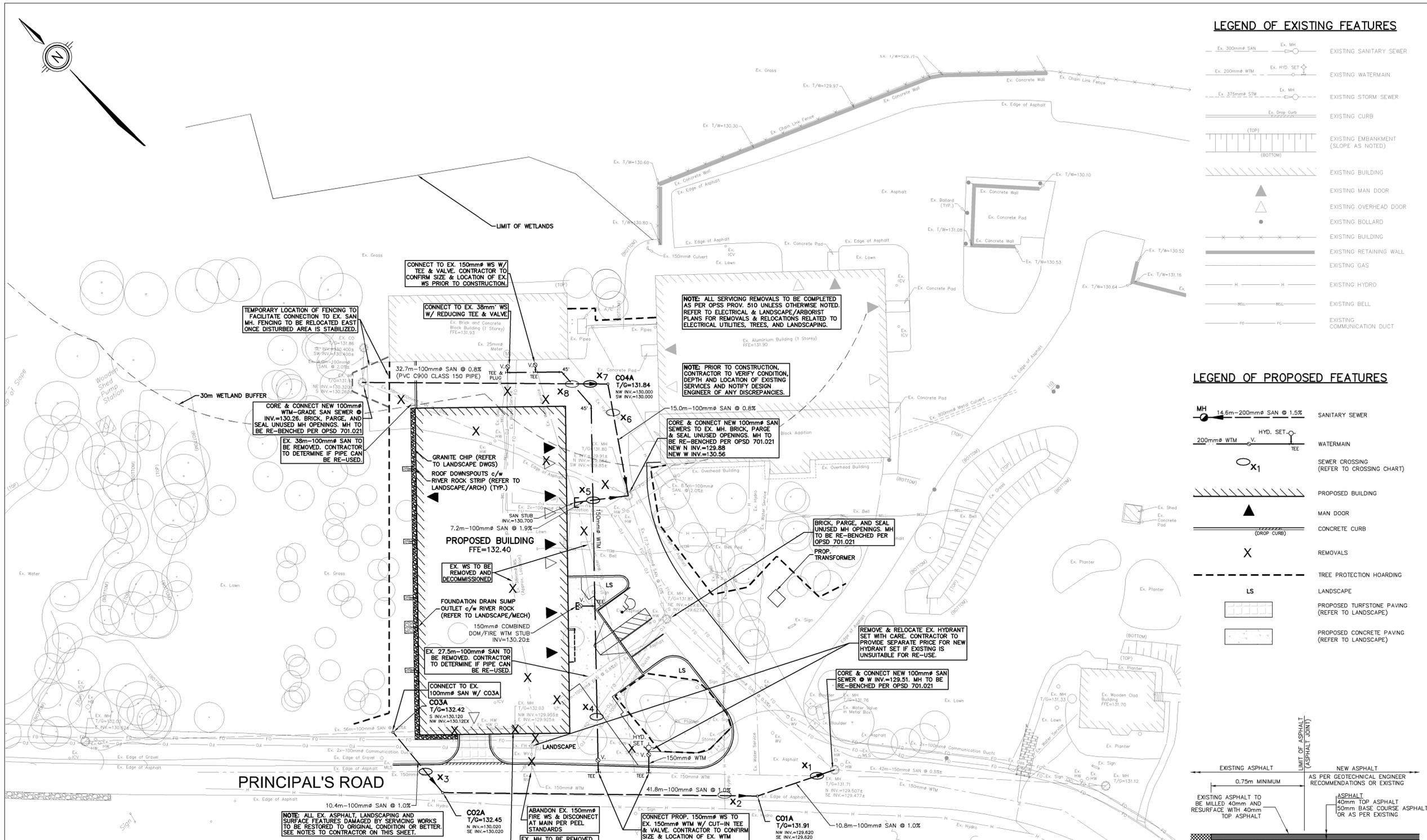
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| SCALE: | As indicated | SHEET NO.: |
|--------------|--------------|-------------|
| DATE: | 10/02/24 | A805 |
| PROJECT NO.: | 2301 | |
| DRAWN BY: | Author | |
| CHECKED BY: | Checker | |

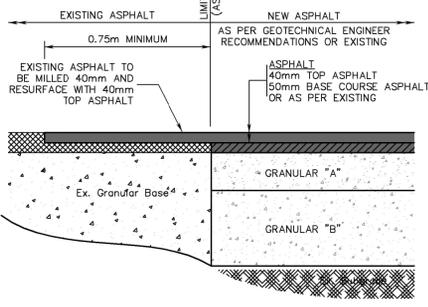


LEGEND OF EXISTING FEATURES

- Ex. 300mm SAN
- Ex. 200mm WTM
- Ex. 375mm STM
- Ex. Drop Curb
- EXISTING CURB
- EXISTING EMBANKMENT (SLOPE AS NOTED)
- EXISTING BUILDING
- EXISTING MAN DOOR
- EXISTING OVERHEAD DOOR
- EXISTING BOLLARD
- EXISTING RETAINING WALL
- EXISTING BUILDING WALL
- EXISTING GAS
- EXISTING HYDRO
- EXISTING BELL
- EXISTING COMMUNICATION DUCT

LEGEND OF PROPOSED FEATURES

- MH 14.6m-200mm SAN @ 1.5%
- 200mm WTM
- HYD. SET
- TEE
- SEWER CROSSING (REFER TO CROSSING CHART)
- PROPOSED BUILDING
- MAN DOOR
- CONCRETE CURB
- REMOVALS
- TREE PROTECTION HOARDING
- LANDSCAPE
- PROPOSED TURFSTONE PAVING (REFER TO LANDSCAPE)
- PROPOSED CONCRETE PAVING (REFER TO LANDSCAPE)



ASPHALT LAP JOINT DETAIL N.T.S.

REGION OF PEEL NOTES

- PUBLIC AND PRIVATE SERVICES, APPURTENANCES, MATERIALS AND CONSTRUCTION METHODS MUST COMPLY WITH THE MOST CURRENT REGION OF PEEL STANDARDS AND SPECIFICATIONS, THE LOCAL MUNICIPALITY'S REQUIREMENTS FOR THE ONTARIO BUILDING CODE AND ONTARIO PROVINCIAL STANDARDS. ALL WORKS SHALL ADHERE TO ALL APPLICABLE LEGISLATION, INCLUDING REGIONAL BY-LAWS.
- WATERMAIN AND/OR WATER SERVICE MATERIALS 100MM (4") AND LARGER MUST BE PVC DR-18 CONSTRUCTED AS PER AWWA C900-16, SIZE 50MM (2") AND SMALLER MUST BE TYPE "K" SOFT COPPER CONSTRUCTED AS PER ASTM B88-49.
- WATERMAIN AND/OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 1.7M (5'6") WITH A MINIMUM HORIZONTAL SPACING OF 1.2M (4') FROM THEMSELVES AND ALL OTHER UTILITIES.
- PROVISIONS FOR FLUSHING WATER LINE PRIOR TO TESTING ETC. MUST BE PROVIDED WITH AT LEAST A 50MM (2") OUTLET ON 100MM (4") AND LARGER LINES. COPPER LINES ARE TO HAVE FLUSHING POINTS AT THE END, THE SAME SIZE AS THE LINE. THEY MUST ALSO BE HOSED OR PIPED TO ALLOW THE WATER TO DRAIN ONTO A PARKING LOT OR DOWN A DRAIN, ON FIRE LINES, FLUSHING OUTLET TO BE 100MM (4") DIAMETER MINIMUM ON A HYDRANT.
- ALL CURB STOPS TO BE 3.0M (10') OFF THE FACE OF THE BUILDING UNLESS OTHERWISE NOTED.
- HYDRANT AND VALVE SET TO REGION STANDARD 1-6-1, DIMENSION A AND B, 0.7M (2") AND 0.9M (3") AND TO HAVE PUMPER NOZZLE.
- WATERMANS TO BE INSTALLED TO GRADES AS SHOWN ON APPROVED SITE PLAN, COPY OF GRADE SHEET MUST BE SUPPLIED TO INSPECTOR PRIOR TO COMMENCEMENT OF WORK, WHERE REQUESTED BY INSPECTOR.
- WATERMANS MUST HAVE A MINIMUM VERTICAL CLEARANCE OF 0.3M (12") OVER 0.5M (20") UNDER SEWERS AND ALL OTHER UTILITIES WHEN CROSSING.
- ALL PROPOSED WATER PIPING MUST BE ISOLATED FROM EXISTING LINES IN ORDER TO ALLOW INDEPENDENT PRESSURE TESTING AND CHLORINATING FROM EXISTING SYSTEMS.
- ALL LIVE TAPPING AND OPERATION OF REGION WATER VALVES SHALL BE ARRANGED THROUGH THE REGIONAL INSPECTOR ASSIGNED OR BY CONTACTING THE OPERATIONS AND MAINTENANCE DIVISION.
- LOCATION OF ALL EXISTING UTILITIES IN THE FIELD TO BE ESTABLISHED BY THE CONTRACTOR.
- THE CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE FOR LOCATES, EXPOSING, SUPPORTING AND PROTECTING OF ALL UNDERGROUND AND OVERHEAD UTILITIES AND STRUCTURES EXISTING AT THE TIME OF CONSTRUCTION IN THE AREA OF THE WORK, WHETHER SHOWN ON THE PLANS OR NOT AND FOR ALL REPAIRS AND CONSEQUENCES RESULTING FROM DAMAGE TO THE SAME.
- THE CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE TO GIVE 72 HOURS WRITTEN NOTICE TO THE UTILITIES PRIOR TO CROSSING SUCH UTILITIES, FOR THE PURPOSE OF INSPECTION BY THE CONCERNED UTILITY. THIS INSPECTION WILL BE FOR THE DURATION OF THE CONSTRUCTION, WITH THE CONTRACTOR RESPONSIBLE FOR ALL COSTS ARISING FROM SUCH INSPECTION.
- ALL PROPOSED WATER PIPING MUST BE ISOLATED THROUGH A TEMPORARY CONNECTION THAT SHALL INCLUDE AN APPROPRIATE CROSS-CONNECTION CONTROL DEVICE, CONSISTENT WITH THE DEGREE OF HAZARD, FOR BACKFLOW PREVENTION OF THE ACTIVE DISTRIBUTION SYSTEM, CONFORMING TO REGION OF PEEL STANDARDS 1-7-7 OR 1-7-8.
- ALL WATER METERS MUST BE INSTALLED IN HEATED AND ACCESSIBLE SPACE.

SEWER CROSSING CHART

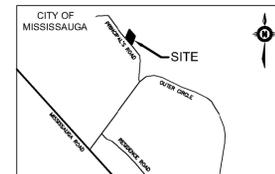
| CROSSING # | SEWER TYPE | SEWER SIZE (mm) | CROSSING ELEVATION | NOTES |
|------------|------------|-----------------|--------------------------|--|
| X1 | EX.WTM | 150 | INV=129.95± | MAINTAIN MIN. 0.3m VERTICAL CLEARANCE. CONTRACTOR TO VERIFY LOCATION OF EX. WTM. |
| | SAN | 100 | OBV=129.62 | |
| X2 | EX.HYDRO | UNKNOWN | UNKNOWN | MAINTAIN MIN. 0.3m VERTICAL CLEARANCE. CONTRACTOR TO VERIFY LOCATION OF EX. HYDRO. |
| | SAN | 100 | OBV=129.76 INV=129.66 | |
| X3 | EX.WTM | 150 | INV=130.65± | MAINTAIN MIN. 0.3m VERTICAL CLEARANCE. CONTRACTOR TO VERIFY LOCATION OF EX. WTM. |
| | SAN | 100 | OBV=130.15 | |
| X4 | EX.COM | UNKNOWN | UNKNOWN | MAINTAIN MIN. 0.3m VERTICAL CLEARANCE. CONTRACTOR TO VERIFY LOCATION OF EX. COMMUNICATION DUCTS. |
| | WTM | 150 | OBV=130.25 | |

| | | | | |
|----|----------|---------|--------------------------|--|
| X5 | SAN | 100 | INV=130.65 | MAINTAIN MIN. 0.5m VERTICAL CLEARANCE. |
| | WTM | 150 | OBV=130.15 | |
| X6 | EX.HYDRO | UNKNOWN | UNKNOWN | MAINTAIN MIN. 0.3m VERTICAL CLEARANCE. CONTRACTOR TO VERIFY LOCATION OF EX. HYDRO. |
| | SAN | 100 | OBV=130.08 INV=129.98 | |
| X7 | EX.HYDRO | UNKNOWN | UNKNOWN | MAINTAIN MIN. 0.3m VERTICAL CLEARANCE. CONTRACTOR TO VERIFY LOCATION OF EX. HYDRO. |
| | SAN | 100 | OBV=130.12 INV=130.02 | |
| X8 | SAN | 100 | INV=130.04 | DEFLECT WTM UNDER SANITARY. MAINTAIN MIN. 0.5m VERTICAL CLEARANCE. |
| | WTM | 150 | OBV=129.54 | |

BENCHMARK INFORMATION:
ELEVATIONS ARE REFERRED TO THE CITY OF MISSISSAUGA BENCHMARK NO. 58, LOCATED ON THE WEST FACE AT THE CORNER OF NO. 3057 MISSISSAUGA ROAD, HAVING A PUBLISHED ELEVATION OF 108.293 METERS.

NOTES TO CONTRACTOR:

- INSPECTION:** CONTRACTOR IS RESPONSIBLE FOR CONTACTING ENGINEER 48 HRS PRIOR TO COMMENCING WORK TO ARRANGE FOR INSPECTION. ENGINEER TO DETERMINE DEGREE OF INSPECTION AND TESTING REQUIRED FOR CERTIFICATION OF UNDERGROUND SERVICE INSTALLATION AS MANDATED BY ONTARIO BUILDING CODE DIVISION C, PART 1, SECTION 1.2.2. GENERAL REQUIRE. FAILURE TO NOTIFY ENGINEER WILL RESULT IN EXTENSIVE POST CONSTRUCTION INSPECTION AT CONTRACTORS EXPENSE.
- CONFIRMATION OF EXISTING INVERTS:** 72 HOURS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR IS TO LOCATE, EXPOSE AND VERIFY INVERTS OF EXISTING SEWERS AT CONNECTION POINTS WITH THE ENGINEER PRESENT. SHOULD THE CONTRACTOR PROCEED WITHOUT COMPLETING THESE LOCATES, EXTRA COSTS RESULTING FROM DELAYS AND STANDBY TIME WILL NOT BE CONSIDERED.
- RESTORATION:** CONTRACTOR TO RESTORE TO ORIGINAL CONDITION OR BETTER ALL EXISTING ASPHALT, LANDSCAPING, CONCRETE SIDEWALKS AND CURBS, AND ABOVE GROUND FEATURES DAMAGED BY THE INSTALLATION OF NEW UNDERGROUND SERVICES. NEW ASPHALT TO BE MATCHED INTO EXISTING ASPHALT USING ASPHALT LAPJOINT AS PER DETAIL ON THIS DRAWING.



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THE CONTRACTOR AND SUB-CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND DATA ON THE WORK AND REPORT ANY DISCREPANCY IN WRITING TO THE ARCHITECT BEFORE PROCEEDING WITH WORK.

THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS SIGNED AND SEALED BY THE ARCHITECT AND MARKED TO BE USED FOR CONSTRUCTION.

NOTE:
LOCATIONS AND SIZES OF W/ AND ALL ACCESS PANELS, LIGHTS, SWITCHES, EXIT SIGNS, AND OTHER SUCH DEVICES MUST BE APPROVED BY ARCHITECT PRIOR TO ERECTION OF FRAMING. ALL SUCH ITEMS CAST INTO CONCRETE WALLS OR SLABS MUST SIMILARLY BE APPROVED BEFORE CONCRETE IS POURED.

- GENERAL NOTE:**
- I hereby certify that this drawing conforms in all respects to the site development plans Architect or Engineer's Signature (if applicable) and Professional Seal.
 - The City of Mississauga requires that all working drawings submitted to the Building Division as part of an application for the issuance of a building permit shall be certified by the architect or engineer in conformity with the site development plan as approved by the City of Mississauga.
 - All exterior lighting will be recessed onto the site and will not infringe upon the adjacent properties.
 - All rooftop mechanical unit shall be screened from view by the applicant.
 - Parking spaces reserved for people with disabilities must be identified by a sign, installed at the applicant's expense, in accordance with the By-law Requirements and Building Code Requirements.
 - The applicant will be responsible for ensuring that all plans conform to Transport Canada's restrictions.
 - Grades will be met with a 3% maximum slope at the property lines and within the site.
 - All damaged areas are to be reinstated with topsoil and sod prior to the release of securities.
 - Signage shown on the site development plans is for information purposes only. All signs will be subject to the provisions of Sign by-law 0094-2002, as amended, and a separate sign application will be required through the Building Division.
 - Any fencing adjacent to municipal lands is to be located 15 cm (6.0 in) inside the property line.
 - Only "shielded" lighting fixtures are permitted for all development, except for detached and semi-detached dwellings within 60 m (196.8 ft) of a residentially zoned property and must conform to the Engineer Certified Lighting Plan.
 - The Engineer Certified Lighting Plan must be signed by the consulting Engineer.
 - The Owner consents to construct and install "shielded" lighting fixtures on the subject lands, in conformity with the Site Plan and Engineer Certified Lighting Plan in accordance with the By-law Requirements and Building Code Requirements.
 - The applicant will be responsible for ensuring that all plans conform to Transport Canada's restrictions.
 - Where planting is to be located in landscaped areas on top of an underground parking structure, it is the responsibility of the applicant to engage the coordination of the design of the underground parking structure with the landscape architect and the consulting Engineering. Underground parking structures with landscaping are to be capable of supporting the following loads:
 - 15 cm of drainage gravel plus 60 cm topsoil for shrubs
 - 15 cm of drainage gravel plus 80 cm topsoil for trees
 Or
 - Pre-fabricated sheet drain system with a compressive strength of 1000 Kpa plus 40 cm topsoil or sod
 - Pre-fabricated sheet drain system with a compressive strength of 1000 Kpa plus 60 cm topsoil or shrubs
 - Pre-fabricated sheet drain system with a compressive strength of 1000 Kpa plus 90 cm topsoil or trees
 - Terrazzo 600 or approved equal
 - The structural design of any retaining wall over 0.6 m in height or any retaining wall located on a property line is to be shown on the Site Grading Plan for this project and is to be approved by the Consulting Engineer for the project.
 - Continuous 15 cm high brick or type poured concrete curbing will be provided between all asphalt and landscaped areas throughout the site.
 - All utility companies will be notified for locates prior to the installation of the footing that lies within the site and within the limit of the City boundary area.

PROJECT NAME:
PRE-ENGINEERED BUILDING

PROJECT ADDRESS:
3057 PRINCIPALS ROAD
CITY IDENTIFIER:
1168080 (Z-24)

LEGAL DESCRIPTION:
PT LTS 3, 5 RANGE 1NDS., LT 4, PT LTS 3, 5 RANGE 2 NDS., PT LTS 3, 4 RANGE 3 NDS.
PT BLK M PL 550, PT RDAL BTH RANGE 2 & 3 NDS. - 43R1817 PTS 1-6, 43R-18296 PT 1

SITE PLAN APPLICATION NUMBER:
SP 21004 W8

| No. | DATE | DESCRIPTION |
|-----|------------|-------------------|
| 4. | 2024-11-15 | ISSUED FOR TENDER |
| 3. | 2024-09-17 | ISSUED FOR PERMIT |
| 2. | 2024-06-12 | RE-ISSUED FOR SPA |
| 1. | 2024-02-02 | ISSUED FOR SPA |

PRE-ENGINEERED BUILDING

University of Toronto Mississauga
3359 Mississauga Road

Baird Sampson Neuert architects

117 Peter Street, Suite 305
Toronto, Ontario
Canada M5V 1P9
T: (416) 363-8877
F: (416) 363-4029
mail@bnsarchitects.com

SITE SERVICING PLAN

SCALE: 1:250
DRAWN: SDU
CHECKED: RDZ
DATE: 04/28/21
JOB: 38225-103

C2.2

LEGEND

| | | | |
|--|--|--|---|
| | PROPOSED DECIDUOUS TREE | | EXISTING TREE TO REMAIN AND BE PROTECTED |
| | PROPOSED CONIFEROUS TREE | | EXISTING TREE TO BE REMOVED |
| | PLANTING Refer to L200 Planting Plan | | ELC / CVCA DRIPLINE BOUNDARY |
| | NATIVE SEED MIX | | 30m WETLAND BOUNDARY OFFSET |
| | NHS WOODLAND BUFFER PLANTING AREA | | 10m WETLAND BOUNDARY OFFSET |
| | NHS WOODLAND COMPENSATION PLANTING AREA | | WETLAND BOUNDARY |
| | CVC WETLAND & NHS WOODLAND COMPENSATION PLANTING AREA | | EXISTING TREE PROTECTION ZONE |
| | TURFSTONE PAVING | | TREE PROTECTION HOARDING |
| | CONCRETE PAVING | | SALAMANCA EXCLUSION FENCE |
| | GRANULAR MAINTENANCE EDGE | | BIKE RACK UTM Standard |
| | UNIT BLOCK MAINTENANCE EDGE | | PRECAST CONCRETE BENCH |
| | RIVER ROCK STRIP | | Waste Receptacles UTM Standard - By Owner |
| | Concrete Filled Steel HSS Bollard Refer to Architectural | | Light Bollard Refer to Electrical |
| | | | Accessible Signage Refer to Site Plan |
| | | | DRAINAGE TILE |

PROTECTION AND PRESERVATION OF EXISTING VEGETATION NOTE:
 All existing trees (singles and groups) which are to remain shall be fully protected with hoarding erected beyond the drip line of the tree canopy to the satisfaction of the Planning and Building Department prior to the issuance of the building permit. Areas within the hoarding shall remain undisturbed and shall not be used for the storage of building materials and equipment.

The Planning and Building Department will inspect the hoarding of trees on private property, while the Community Services Department will inspect the hoarding of public trees. Hoarding must remain in place until an inspection by the City and an appropriate removal time has been agreed upon.

The developer or agents shall take every precaution necessary to prevent damage to the existing vegetation to be retained. Where limbs or portions of trees are removed to accommodate construction, they will be removed in accordance with accepted arboriculture practice. Where root systems of protected trees adjacent to construction are exposed or damaged they shall be neatly trimmed and the area backfilled with appropriate material to prevent desiccation.

No open trenching shall occur through tree preservation zones (TPZ). Only directional boring can be used for service installation in these areas.

Where necessary, vegetation will be given an overall pruning to restore the balance between roots and top growth, or to restore its appearance.

Trees that have died or have been damaged beyond repair shall be removed and replaced at the owners' expense with trees of a size and species approved by the Planning and Building Department.

OWNER'S NOTE:

We agree to implement the approved Site Plan and Landscape Plans within 18 months after the execution of the Site Plan Undertaking and will retain the Landscape Architect to make periodic site inspections. Upon completion of the works we will forward to the City of Mississauga a copy of the Completion Notification Certificate from the Landscape Architect and the applicable inspection fee.

The Landscape Architect or Consulting Engineer will provide certification that:

- the recommendations outlined in the Acoustic Vibration Study have been implemented in accordance with the study;
- the Engineering Certificate lighting Plan and the LID techniques for this project have been installed in accordance with the approved plans.

Any revision to the Site Plan, Landscape Plans and Engineer Certified Lighting Plan (if applicable) will be submitted to the Planning and Building Department, Development and Design Division, City of Mississauga for review and approval, prior to the commencement of the works.

We hereby authorize the City, its authorized agents, servants or employees to enter upon our land to carry out inspections from time to time and agree to indemnify the City and its authorized agents and save them harmless from any and all actions arising out of the exercise by the City, its authorized agents, servants, or employees of the rights hereby given to them. We undertake to notify the City forthwith of any change of ownership of the said lands.

Signature of Owner:

Name of Owner:

Address:

Date:

GRADING NOTE:

I hereby certify that this Landscape Plan conforms to the Site Grading Plan for this Application.

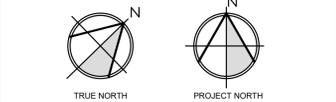
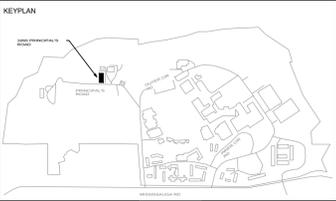
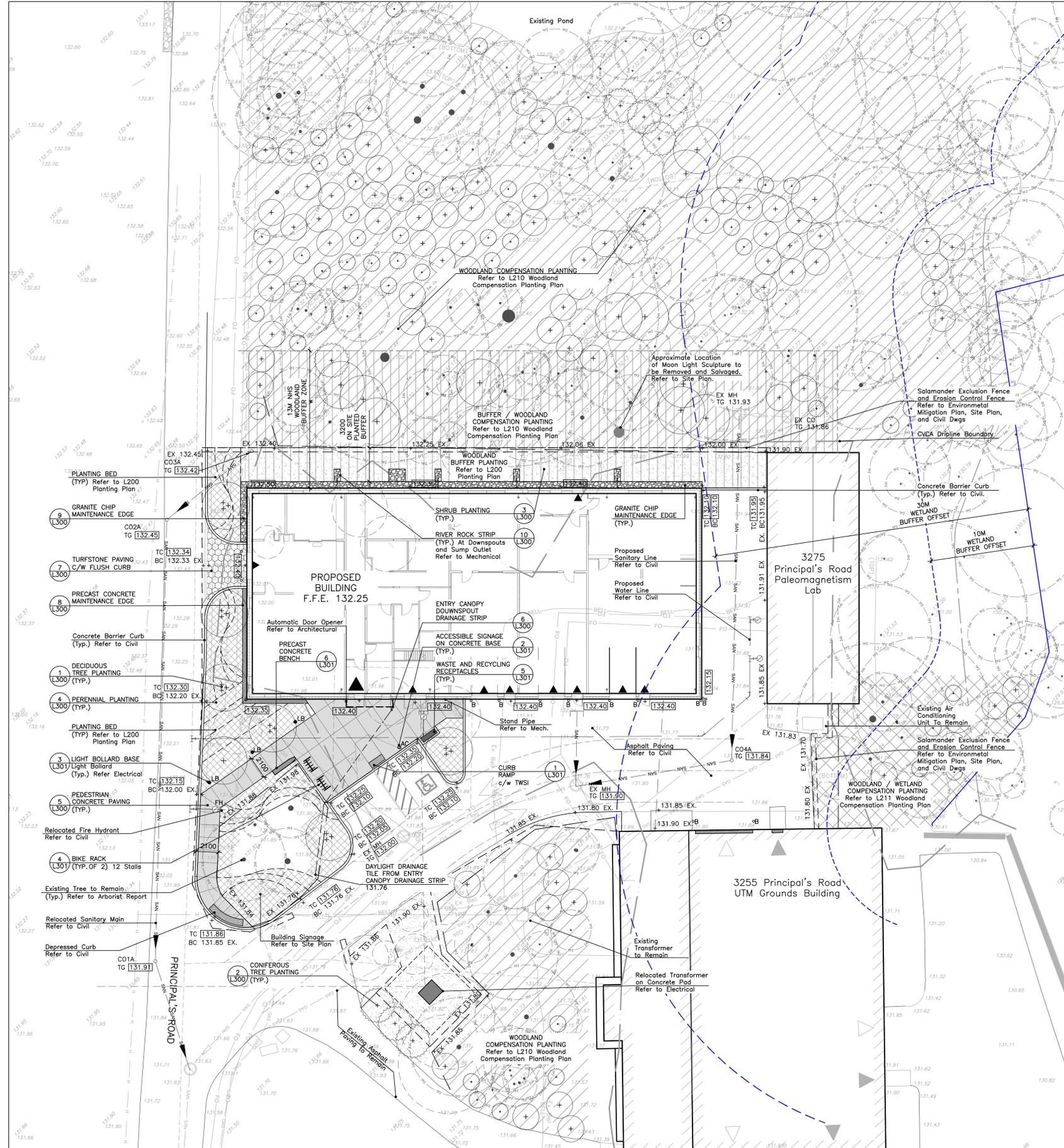
BRAD FLEISHER

Signature of Landscape Architect

Print Name:

Date:

04/09/2024



| No. | ISSUANCE | DATE |
|-----|---|------------|
| 1 | Issued for Class C Costing | 2023-12-06 |
| 2 | Issued for 100% Schematic Design Review | 2023-12-22 |
| 3 | Issued for Site Plan Approval | 2024-02-02 |
| 4 | Issued for Class B Costing | 2024-03-01 |
| 5 | Issued for Review | 2024-07-11 |
| 6 | Issued for Building Permit | 2024-09-06 |
| 7 | 100% Construction Documentation | 2024-11-05 |
| 8 | Issued for Tender | 2024-11-15 |

DISCLAIMER:
 NOT FOR CONSTRUCTION



CLIENT
 University of Toronto Mississauga

PROJECT
 Pre-Engineered Building
 3359 Mississauga Road

TITLE
 LANDSCAPE PLAN



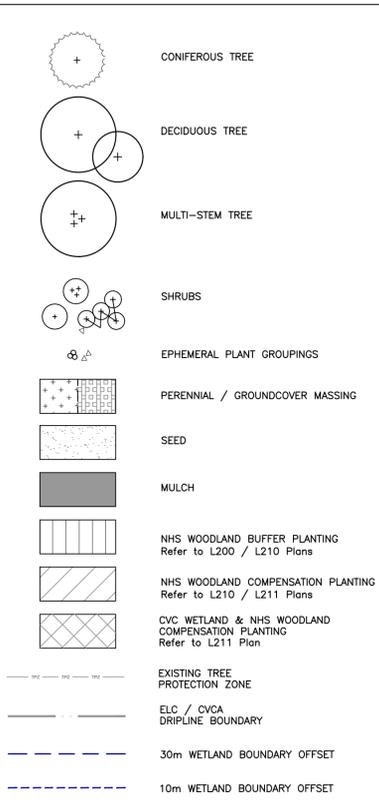
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| | |
|---------------------|-------------|
| SCALE: 1:200 | SHEET NO.: |
| DATE: November 2023 | |
| PROJECT NO.: 231533 | L100 |
| DRAWN BY: JBKH | |
| CHECKED BY: KWHF | |

PLANTING NOTES:

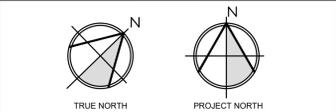
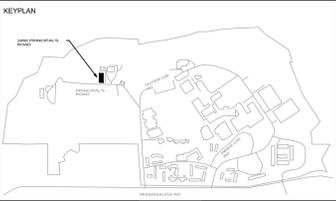
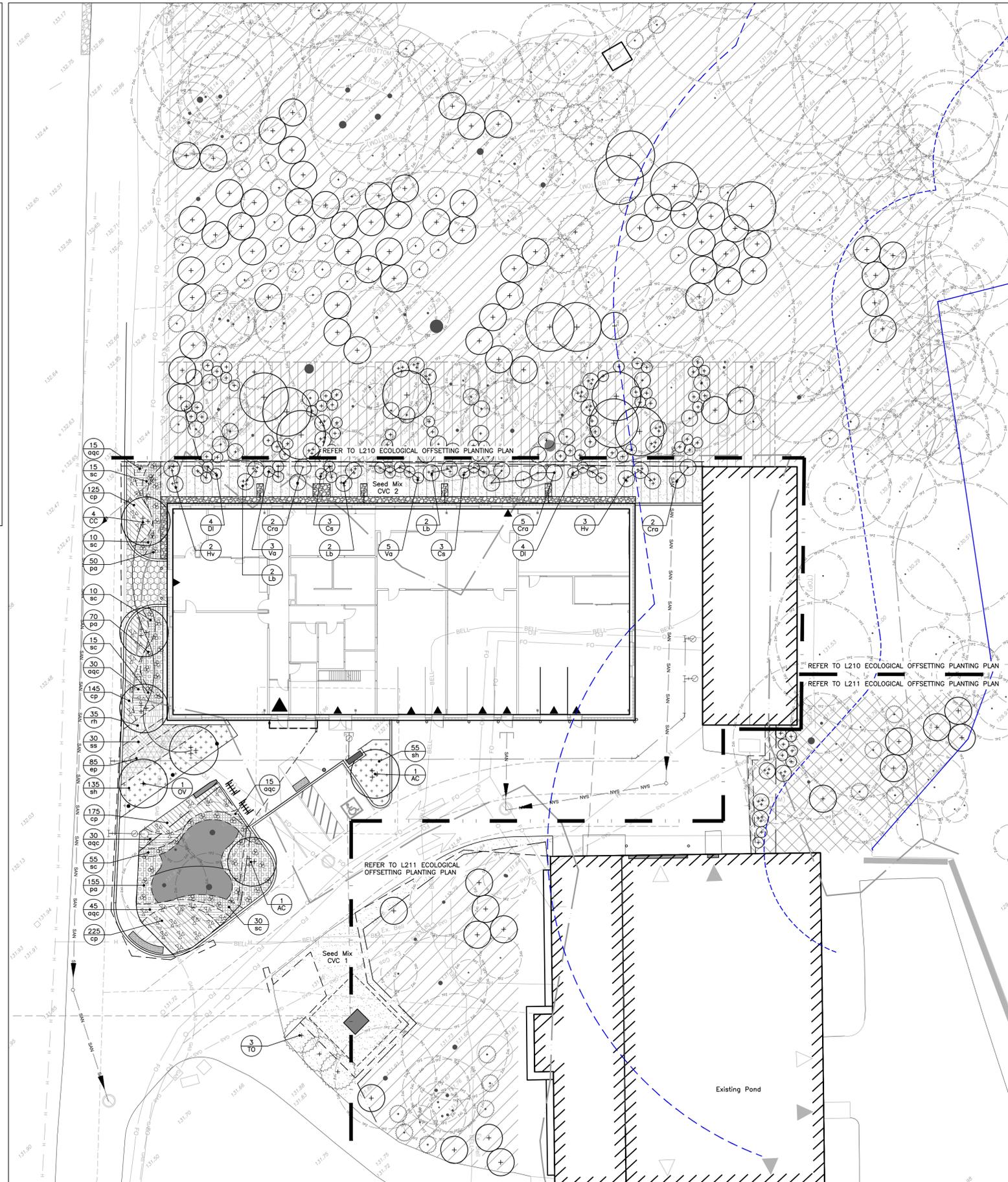
- All plant material is to meet the standards as outlined in the Canadian Standards for Nursery Stock, current edition.
- For all contractor purchased materials plant sizes will be as measured on site. Nursery waybills will not be acceptable for determination of plant sizes.
- Protect plant material from frost, excessive heat, wind and sun during transportation.
- All planting beds have subsoil scarified to a depth of 450mm.
- All planting soil to be amended with leafmulch equivalent to 13% dry weight of the soil.
- Warranty period for all planting is one year from substantial completion. Warranty replacements of all plant material will be undertaken by the contractor as requested by the landscape architect at any time during the warranty period.
- For burlapped root balls, cut away top one third of wrapping and wire basket without damaging root ball. Do not pull burlap or rope from under root ball. For potted plants remove entire container.
- Backfill soil in 150mm lifts. Tamp each lift to eliminate air pockets. When two thirds of depth of planting pit has been backfilled, fill remaining space with water. After water has penetrated into soil, backfill to finish grade.
- Shrubs shown in groups are to be planted in continuous plant beds as shown on planting detail.
- Plant material installed following leaf drop in the fall will be accepted after the start of the next growing season provided that acceptance conditions are fulfilled.
- Any planting or landscaping work that is rejected at the final inspection will be corrected in a timely manner at contractor's expense.
- Rejected plant material must be removed from the site within one working day.

LEGEND



PLANT LIST

| SYMBOL | BOTANICAL NAME | COMMON NAME | QUANTITY | SIZE | CONDITION | COMMENTS |
|---|-----------------------------------|----------------------------|---|--------------------|-----------|------------------------|
| TREES | | | | | | |
| CC | <i>Cercis canadensis</i> | Eastern Redbud | 4 | 45mm | WB | Treeform |
| OV | <i>Ostrya virginiana</i> | Ironwood | 1 | 60mm | WB | |
| TO | <i>Thuja occidentalis</i> | Eastern White Cedar | 3 | 1.8m ht. | BB | |
| | | Total | 8 | | | |
| SHRUBS | | | | | | |
| AC | <i>Amelanchier canadensis</i> | Shadblow Serviceberry | 2 | 2.25m ht. | WB | 3-Stem Clump |
| Cs | <i>Cornus sericea</i> | Red Osier Dogwood | 6 | 60cm, 3 gal | Potted | |
| Cra | <i>Cornus racemosa</i> | Gray Dogwood | 9 | 125cm, 3 gal. | Potted | |
| DI | <i>Dierilla lonicera</i> | Bush Honeysuckle | 8 | 60cm, 3 gal | | |
| Hv | <i>Hamamelis virginiana</i> | Witchhazel | 5 | 125cm, 3 gal. | Potted | Clump |
| Lb | <i>Lindera benzoin</i> | Spicebush | 6 | 125cm, 3 gal. | | Clump |
| Rc | <i>Ribes cynosbati</i> | Eastern Prickly Gooseberry | 8 | 60cm, 3 gal | Potted | |
| Ro | <i>Rubus odoratus</i> | Flowering raspberry | 10 | 60cm, 3 gal | Potted | |
| Va | <i>Viburnum acerifolium</i> | Mapleleaf viburnum | 8 | 60cm, 3 gal | Potted | |
| | | Total | 62 | | | |
| PERENNIALS | | | | | | |
| aqc | <i>Aquilegia canadensis</i> | Wild Columbine | 135 | 1 gal | Potted | |
| ep | <i>Echinacea purpurea</i> | Purple Coneflower | 85 | 1 gal | Potted | |
| rh | <i>Rudbeckia hirta</i> | Black Eyed Susan | 35 | 1 gal | Potted | |
| sc | <i>Symphotrichum cordifolium</i> | Heart leaved aster | 135 | 1 gal | Potted | |
| GROUNDCOVERS | | | | | | |
| cp | <i>Carex pensylvanica</i> | Oak Sedge | 670 | 1 gal | Potted | |
| FERNS | | | | | | |
| pa | <i>Polystichum acrostichoides</i> | Christmas Fern | 275 | 1 gal | Potted | |
| GRASSES | | | | | | |
| ss | <i>Schizachyrium scoparium</i> | Little Bluestem | 30 | 1 gal | Potted | |
| sh | <i>Sporobolus heterolepis</i> | Prairie Dropseed | 190 | 1 gal | Potted | |
| EPHEMERALS | | | | | | |
| dc | <i>Dicentra cucullaria</i> | Dutchman's Breeches | 175 | 1 gal | Potted | Plant in Groups of 5-7 |
| tg | <i>Trillium grandiflorum</i> | White Trillium | 225 | 1 gal | Potted | Plant in Groups of 5-7 |
| SEED MIXTURE - CVC 1 - UPLAND MIX | | | | | | |
| Scientific Name | Common Name | % | Scientific Name | Common Name | % | |
| <i>Anemone canadensis</i> | Canada Anemone | 1% | <i>Carex vulpinoidea</i> | Fox Sedge | 25% | |
| <i>Asclepias syriaca</i> | Common Milkweed | 2% | <i>Elymus virginicus</i> var. <i>virginicus</i> | Virginia Wildrye | 35% | |
| <i>Carex granularis</i> | Limestone Meadow Sedge | 15% | <i>Juncus tenuis</i> | Path Rush | 5% | |
| <i>Elymus virginicus</i> var. <i>virginicus</i> | Virginia Wildrye | 40% | <i>Poa palustris</i> | Fowl Bluegrass | 25% | |
| <i>Euthamia graminifolia</i> | Grass Leaved Goldenrod | 1% | <i>Scirpus atrovirens</i> | Dark-green Bulrush | 5% | |
| <i>Monarda fistulosa</i> var. <i>fistulosa</i> | Wild Bergamot | 1% | <i>Verbena hastata</i> | Blue Vervain | 5% | |
| <i>Oenothera biennis</i> | Common Evening Primrose | 25% | | | | |
| <i>Rudbeckia hirta</i> | Black Eyed Susan | 10% | Cover Crop for Seed Mixture | | | |
| <i>Solidago canadensis</i> var. <i>canadensis</i> | Canada Goldenrod | 1% | Seed at a rate of 150g/100m ² | | | |
| <i>Solidago juncea</i> | Early Goldenrod | 1% | <i>Avena sativa</i> | Oats | 40% | |
| <i>Solidago nemoralis</i> ssp. <i>Nemoralis</i> | Gray-stemmed Goldenrod | 1% | <i>Hordeum vulgare</i> | Barley | 45% | |
| <i>Symphotrichum novae-angliae</i> | New England Aster | 1% | | | | |
| <i>Verbena urticifolia</i> | White Vervain | 1% | | | | |
| Cover Crop for Seed Mixture | | | | | | |
| <i>Avena sativa</i> | Oats | 40% | | | | |
| <i>Hordeum vulgare</i> | Barley | 45% | | | | |



| No. | ISSUANCE | DATE |
|-----|---|------------|
| 1 | Issued for Class C Costing | 2023-12-06 |
| 2 | Issued for 100% Schematic Design Review | 2023-12-22 |
| 3 | Issued for Site Plan Approval | 2024-02-02 |
| 4 | Issued for Class B Costing | 2024-03-01 |
| 5 | Issued for Review | 2024-07-11 |
| 6 | Issued for Building Permit | 2024-09-06 |
| 7 | 100% Construction Documentation | 2024-11-05 |
| 8 | Issued for Tender | 2024-11-15 |

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PROJECT
Pre-Engineered Building
3359 Mississauga Road

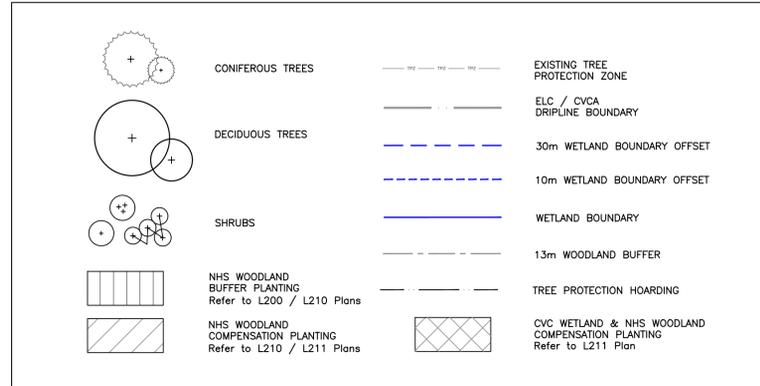
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SITE PLANTING PLAN



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| SCALE | DATE | PROJECT NO. | DRAWN BY | CHECKED BY | SHEET NO. |
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| 1:200 | November 2023 | 231533 | JBKH | KHBF | L200 |

LEGEND



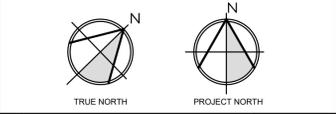
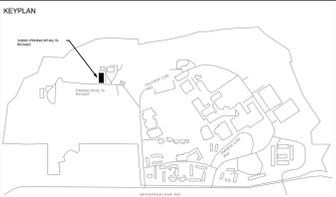
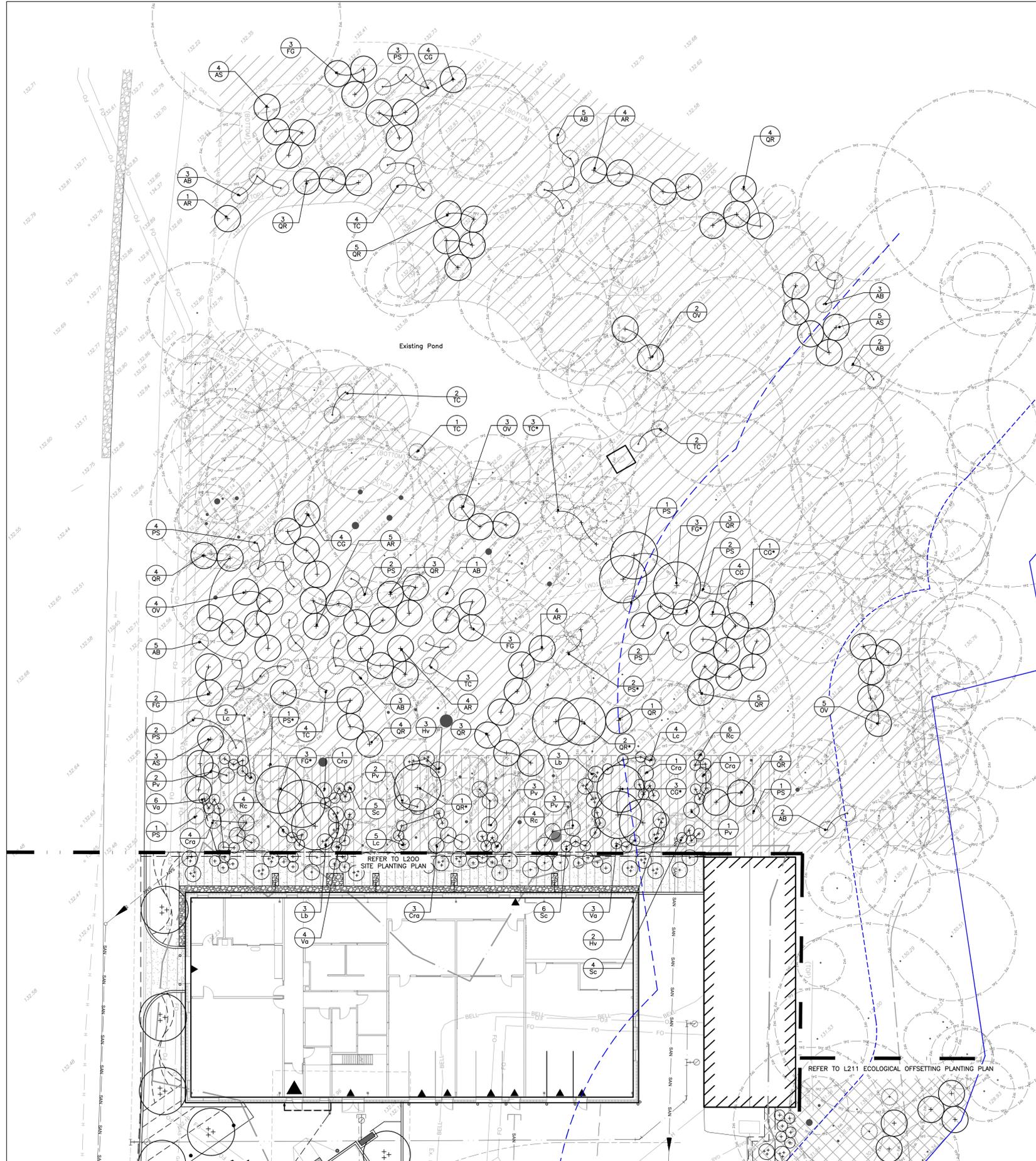
ECOLOGICAL OFFSETTING PLANT LIST

| SYMBOL | BOTANICAL NAME | COMMON NAME | QUANTITY | SIZE | CONDITION | COMMENTS |
|---------------|----------------------|----------------------------|------------|--------------|---------------|----------------------------|
| TREES | | | | | | |
| AB | Abies balsamea | Balsam Fir | 24 | 1.5m ht. | Branched whip | |
| AR | Acer rubrum | Red Maple | 18 | 1.5m ht. | Branched whip | |
| AS | Acer saccharum | Sugar Maple | 12 | 1.5m ht. | Branched whip | |
| CG | Carya glabra | Pignut Hickory | 14 | 1.5m ht. | Branched whip | |
| CG* | Carya glabra | Pignut Hickory | 4 | 60mm | BB | *Tree Removal Compensation |
| FG | Fagus grandifolia | American Beech | 13 | 1.5m ht. | Branched whip | |
| FG* | Fagus grandifolia | American Beech | 6 | 60mm | BB | *Tree Removal Compensation |
| OV | Ostrya virginiana | Ironwood | 20 | 1.5m ht. | Branched whip | |
| PS | Pinus strobus | Eastern White Pine | 21 | 1.5m ht. | Branched whip | |
| PS* | Pinus strobus | Eastern White Pine | 3 | 1.8m ht. | WB | *Tree Removal Compensation |
| QR | Quercus rubra | Northern Red Oak | 40 | 1.5m ht. | Branched whip | |
| QR* | Quercus rubra | Northern Red Oak | 3 | 60mm | BB | *Tree Removal Compensation |
| TC | Tsuga canadensis | Eastern Hemlock | 19 | 1.5m ht. | Branched whip | |
| TC* | Tsuga canadensis | Eastern Hemlock | 3 | 1.8m ht. | WB | *Tree Removal Compensation |
| | Total | | 200 | | | |
| SHRUBS | | | | | | |
| Cra | Cornus racemosa | Gray Dogwood | 10 | 125cm, 3 gal | Potted | |
| Hv | Hamamelis virginiana | Witchhazel | 9 | 125cm, 3 gal | Potted | Clump |
| Lb | Lindera benzoin | Spicebush | 6 | 125cm, 3 gal | Potted | Clump |
| Lc | Lonicera canadensis | American Fly Honeysuckle | 14 | 60cm, 3 gal | Potted | |
| Pv | Prunus virginiana | Chokecherry | 11 | 125cm, 3 gal | Potted | |
| Rc | Ribes cynosbati | Eastern Prickly Gooseberry | 16 | 60cm, 3 gal | Potted | |
| Sc | Sambucus canadensis | American Black Elderberry | 15 | 60cm, 3 gal | Potted | |
| Va | Viburnum acerifolium | Mapleleaf viburnum | 19 | 60cm, 3 gal | Potted | |
| | Total | | 100 | | | |

ECOLOGICAL OFFSETTING NOTES:

- Field Adjustments may be required for all proposed plant material based on presence of existing vegetation to remain. Refer to Environmental Impact Study prepared by Sumac Environmental Consulting.
- Tree Planting to be minimum 2.5m o.c. spacing.
- Tall shrub planting to be minimum 1.5m o.c. spacing.
- Low shrub planting to be minimum 1.0m o.c. spacing.
- Bat boxes to be located on site by a qualified Biologist. Refer to sheet L211 Ecological Offsetting Planting Plan for details, and Environmental Impact Study prepared by Sumac Environmental Consulting for recommendations.
- All disturbed areas associated with planting operations within existing Natural Heritage System Boundary and Wetland Buffer Offset to be reinstated with 100mm of topsoil, CVC-1 native upland seed mix and cover crop.

| SEED MIXTURE - CVC 1 - UPLAND MIX | Scientific Name | Common Name | % |
|---|-------------------------------------|--|-----|
| Seed at a rate of 250g/90m ² | Anemone canadensis | Canada Anemone | 1% |
| | Asclepias syriaca | Common Milkweed | 2% |
| | Carex granularis | Limestone Meadow Sedge | 15% |
| | Elymus virginicus var. virginicus | Virginia Wildrye | 40% |
| | Euthamia graminifolia | Grass Leaved Goldenrod | 1% |
| | Monarda fistulosa var. fistulosa | Wild Bergamot | 1% |
| | Oenothera biennis | Common Evening Primrose | 25% |
| | Rudbeckia hirta | Black Eyed Susan | 10% |
| | Solidago canadensis var. canadensis | Canada Goldenrod | 1% |
| | Solidago juncea | Early Goldenrod | 1% |
| | Solidago nemoralis ssp. Nemoralis | Gray-stemmed Goldenrod | 1% |
| | Symphoricarum novae-angliae | New England Aster | 1% |
| | Verbena urticifolia | White Vervain | 1% |
| | Cover Crop for Seed Mixture | Seed at a rate of 150g/100m ² | |
| Avena sativa | | Oats | 40% |
| Elymus canadensis | | Canada Wildrye | 15% |
| Hordeum vulgare | Barley | 45% | |



| No. | ISSUANCE | DATE |
|-----|---|------------|
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| 3 | Issued for Site Plan Approval | 2024-02-02 |
| 4 | Issued for Class B Costing | 2024-03-01 |
| 5 | Issued for Review | 2024-07-11 |
| 6 | Issued for Building Permit | 2024-09-06 |
| 7 | 100% Construction Documentation | 2024-11-05 |
| 8 | Issued for Tender | 2024-11-15 |

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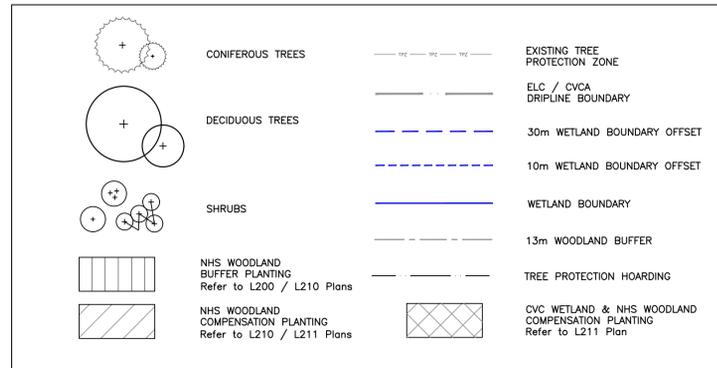
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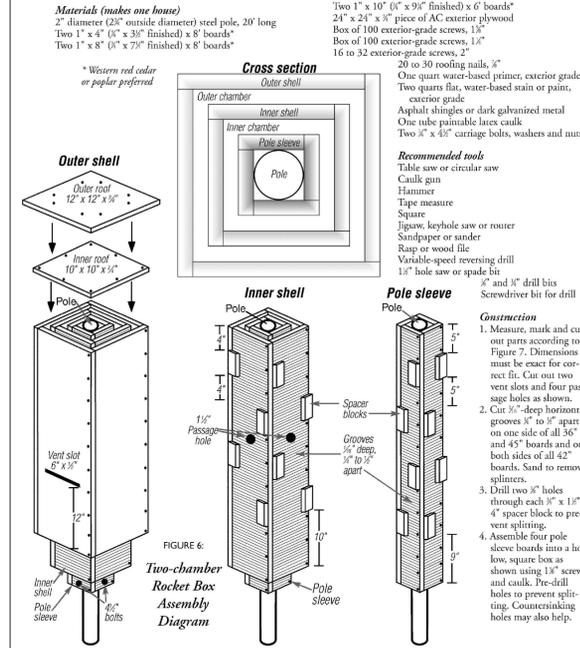
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| 1:200 | November 2023 | 231533 | JBNKH | KHBF | L210 |

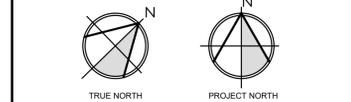
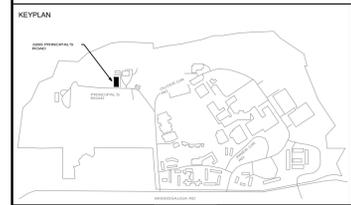
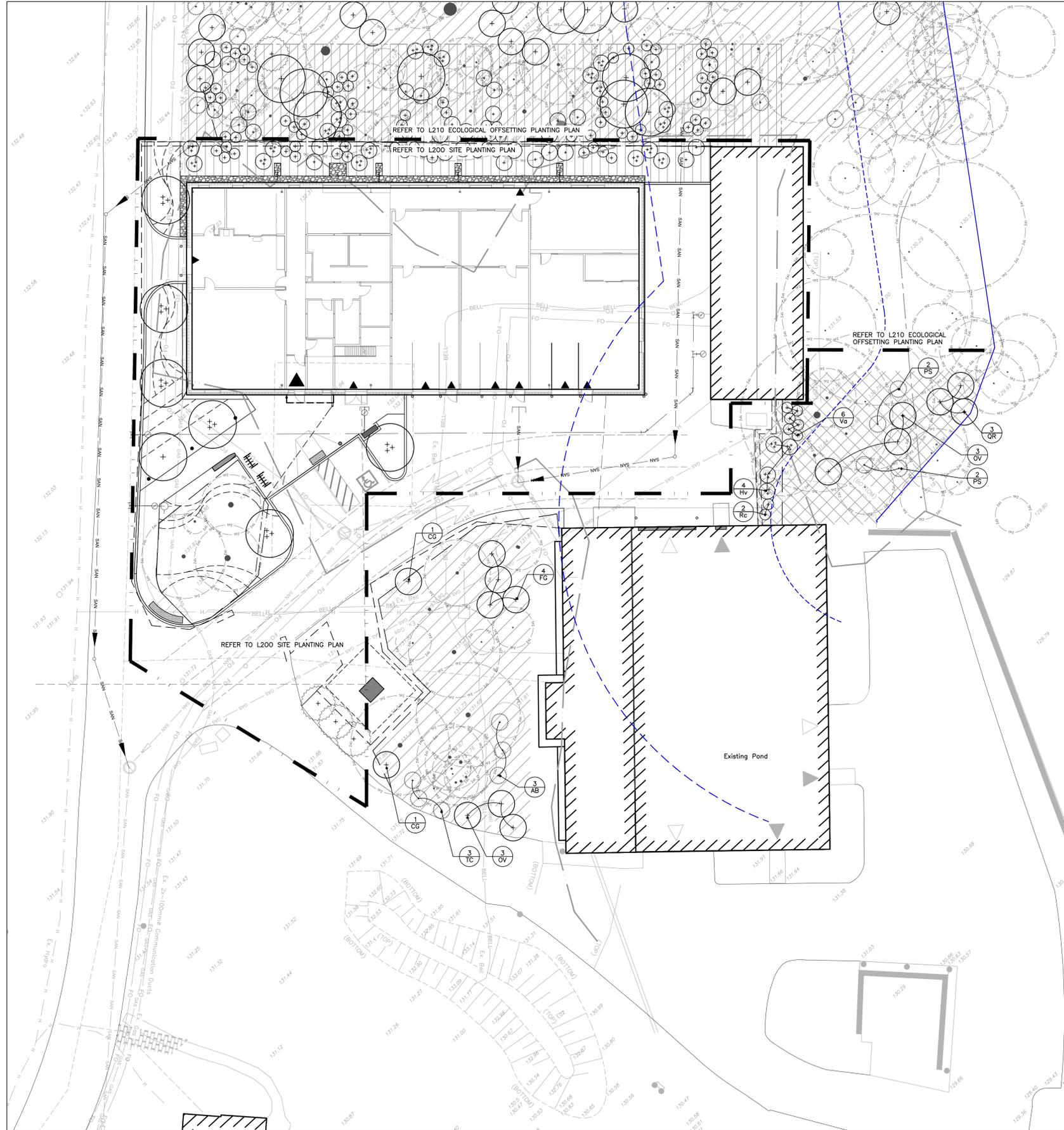
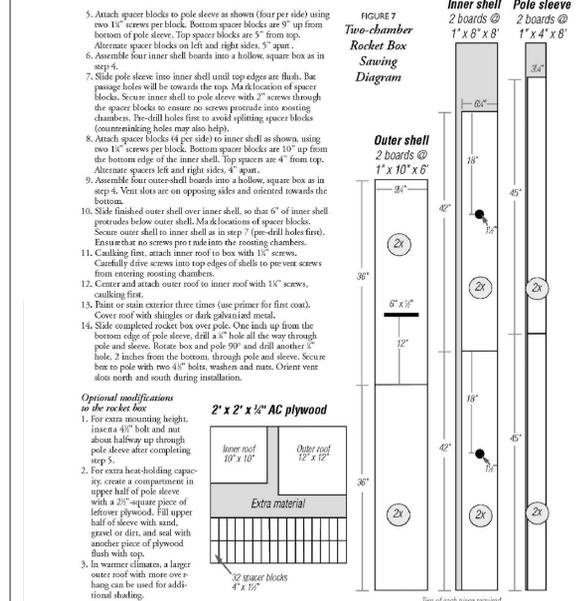
LEGEND



Two-chamber Rocket Box



© Bat Conservation International, www.batcon.org
 Adapted from The Bat House Builder's Handbook



| No. | ISSUANCE | DATE |
|-----|---|------------|
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| 3 | Issued for Site Plan Approval | 2024-02-02 |
| 4 | Issued for Class B Costing | 2024-03-01 |
| 5 | Issued for Building Permit | 2024-07-11 |
| 6 | Issued for Building Permit | 2024-09-06 |
| 7 | 100% Construction Documentation | 2024-11-05 |
| 8 | Issued for Tender | 2024-11-15 |

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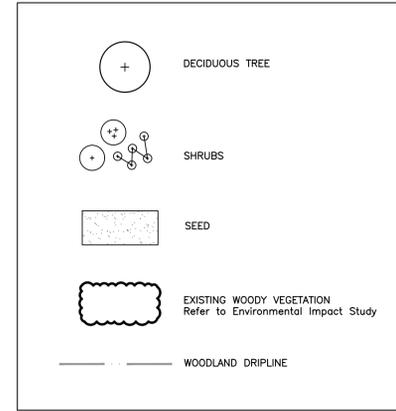
TITLE
 ECOLOGICAL OFFSETTING PLANTING PLAN



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|---------------------|-------------|
| SCALE: 1:200 | SHEET NO.: |
| DATE: November 2023 | |
| PROJECT NO.: 231533 | L211 |
| DRAWN BY: JBKH | |
| CHECKED BY: KWHF | |

LEGEND



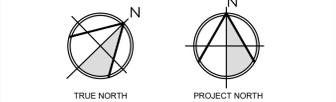
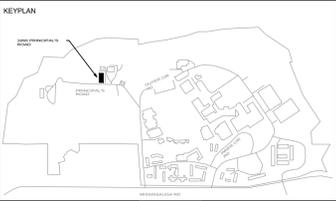
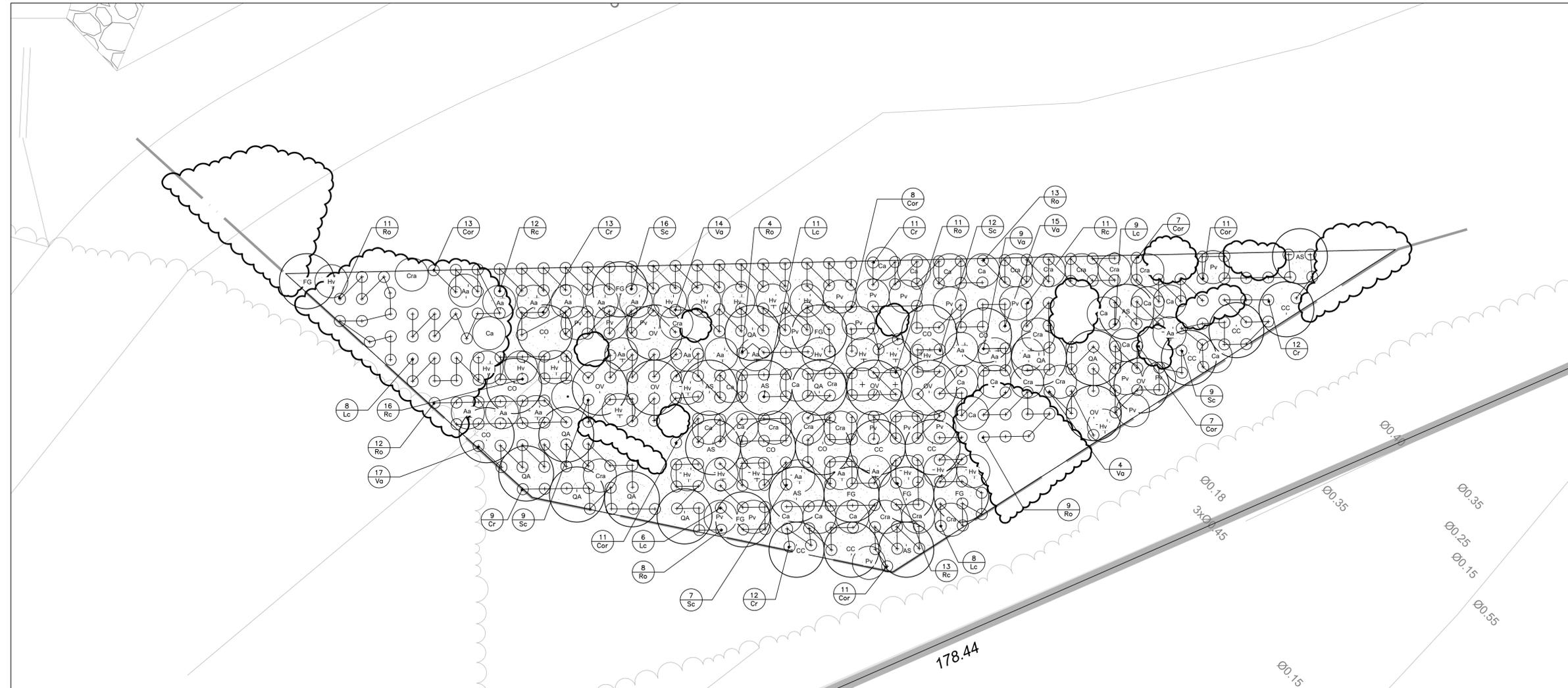
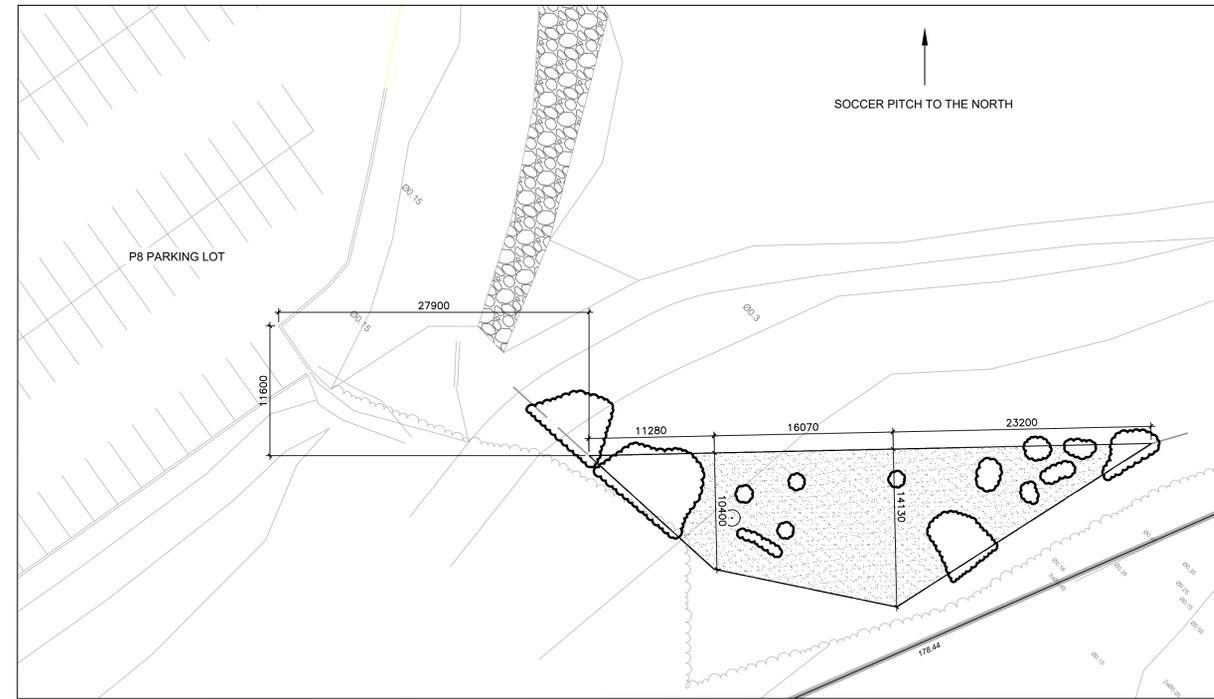
PLANT LIST

| SYMBOL | BOTANICAL NAME | COMMON NAME | QUANTITY | SIZE | CONDITION | COMMENTS |
|--------------------|----------------------|----------------------------|------------|---------------|-----------|----------|
| TREES | | | | | | |
| AS | Acer saccharum | Sugar Maple | 7 | 60mm | BB | |
| CO | Carya ovata | Shagbark Hickory | 7 | 60mm | BB | |
| FG | Fagus grandifolia | American Beech | 7 | 60mm | BB | |
| OV | Ostrya virginiana | Ironwood | 7 | 60mm | BB | |
| PT | Carpinus caroliniana | Musclemwood | 7 | 60mm | BB | |
| QA | Quercus alba | White Oak | 9 | 60mm | BB | |
| | | Total | 44 | | | |
| TALL SHRUBS | | | | | | |
| Aa | Amelanchier arborea | Common serviceberry | 20 | 125cm, 3 gal. | Potted | Clump |
| Ca | Cornus alternifolia | Alternate Leaved Dogwood | 20 | 125cm, 3 gal. | Potted | |
| Cra | Cornus racemosa | Gray Dogwood | 18 | 125cm, 3 gal. | Potted | Clump |
| Hv | Hamamelis virginiana | Witchhazel | 22 | 125cm, 3 gal. | Potted | |
| Pv | Prunus virginiana | Chokecherry | 20 | 125cm, 3 gal. | Potted | |
| | | Total | 100 | | | |
| LOW SHRUBS | | | | | | |
| Cr | Cornus rugosa | Round-Leaved Dogwood | 57 | 60cm, 3 gal | Potted | |
| Cor | Corylus cornuta | Beaked Hazelnut | 68 | 60cm, 3 gal | Potted | |
| Lc | Lonicera canadensis | American Fly Honeysuckle | 42 | 60cm, 3 gal | Potted | |
| Rc | Ribes cynosbati | Eastern Prickly Gooseberry | 52 | 60cm, 3 gal | Potted | |
| Ro | Rubus odoratus | Flowering raspberry | 68 | 60cm, 3 gal | Potted | |
| Sc | Sambucus canadensis | Common Elderberry | 53 | 60cm, 3 gal | Potted | |
| Va | Viburnum acerifolium | Mapleleaf viburnum | 59 | 60cm, 3 gal | Potted | |
| | | Total | 399 | | | |

| Scientific Name | Common Name | % |
|--|-------------------------|-----|
| SEED MIXTURE - CVC 1 - UPLAND MIX | | |
| Anemone canadensis | Canada Anemone | 1% |
| Asclepias syriaca | Common Milkweed | 2% |
| Carex granularis | Limestone Meadow Sedge | 15% |
| Elymus virginicus var. virginicus | Virginia Wildrye | 40% |
| Euthamia graminifolia | Grass Leaved Goldenrod | 1% |
| Monarda fistulosa var. fistulosa | Wild Bergamot | 1% |
| Oenothera biennis | Common Evening Primrose | 25% |
| Rudbeckia hirta | Black Eyed Susan | 1% |
| Solidago canadensis var. canadensis | Canada Goldenrod | 1% |
| Solidago juncea | Early Goldenrod | 1% |
| Solidago nemoralis ssp. Nemoralis | Gray-stemmed Goldenrod | 1% |
| Symphotrichum novae-angliae | New England Aster | 1% |
| Verbena urticifolia | White Vervain | 1% |
| Cover Crop for Seed Mixture | | |
| Avena sativa | Oats | 40% |
| Elymus canadensis | Canada Wildrye | 15% |
| Hordeum vulgare | Barley | 45% |

LAND-BASED OFFSETTING NOTES:

- Field adjustments may be required for all proposed plant material based on presence of existing vegetation to remain. Refer to Environmental Impact Study prepared by Sumac Environmental Consulting.
- Total Land-Based Offsetting Area to be 422 sq.m.
- Tree Planting to be minimum 2.5m o.c. spacing.
- Tall shrub planting to be minimum 1.5m o.c. spacing and low shrub planting to be minimum 1.0m o.c. spacing.



| No. | ISSUANCE | DATE |
|-----|---|------------|
| 1 | Issued for Class C Costing | 2023-12-06 |
| 2 | Issued for 100% Schematic Design Review | 2023-12-22 |
| 3 | Issued for Site Plan Approval | 2024-02-02 |
| 4 | Issued for Class B Costing | 2024-03-01 |
| 5 | Issued for Review | 2024-07-11 |
| 6 | Issued for Building Permit | 2024-09-06 |
| 7 | 100% Construction Documentation | 2024-11-05 |
| 8 | Issued for Tender | 2024-11-15 |

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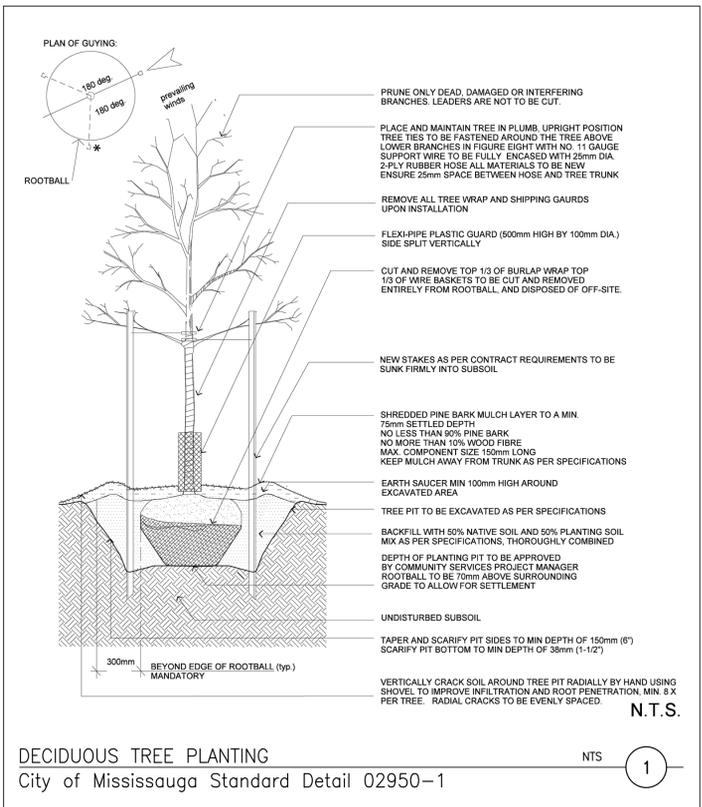
PROJECT
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TITLE
LAND-BASED OFFSETTING PLANTING PLAN

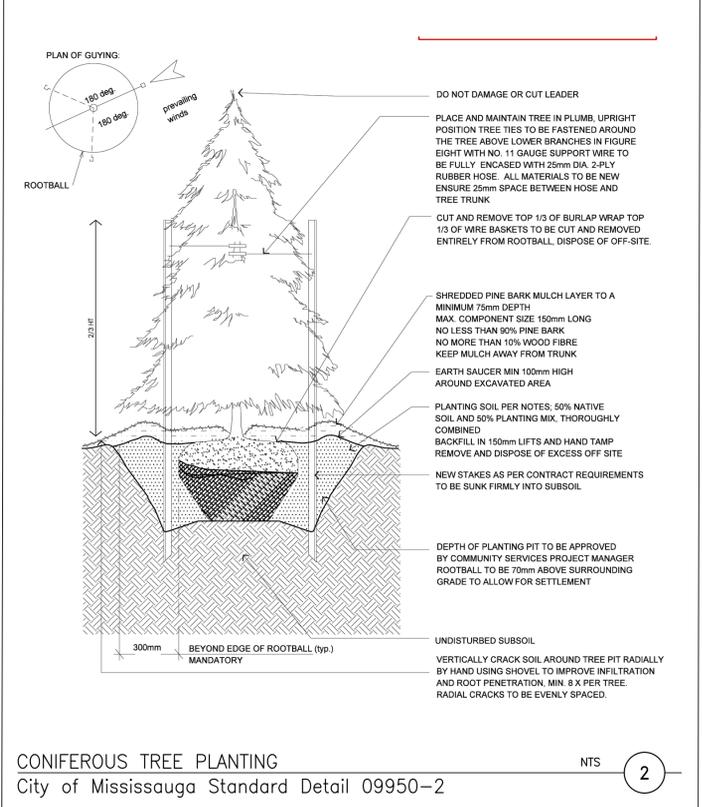


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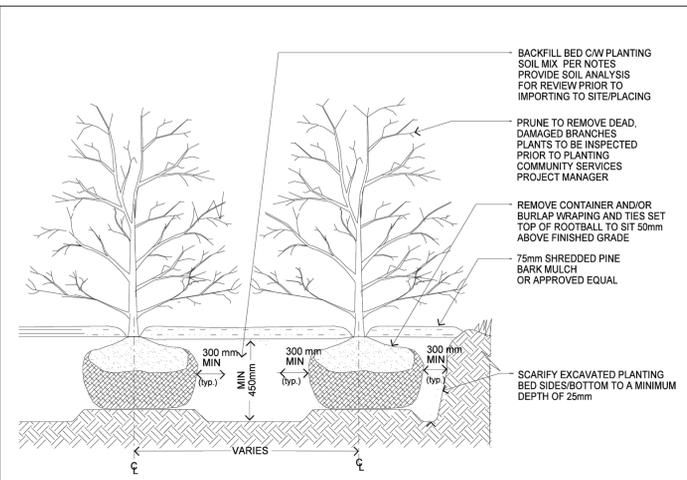
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|-------|---------------|-------------|----------|------------|-----------|
| 1:100 | November 2023 | 231533 | JBKH | KHBF | L220 |



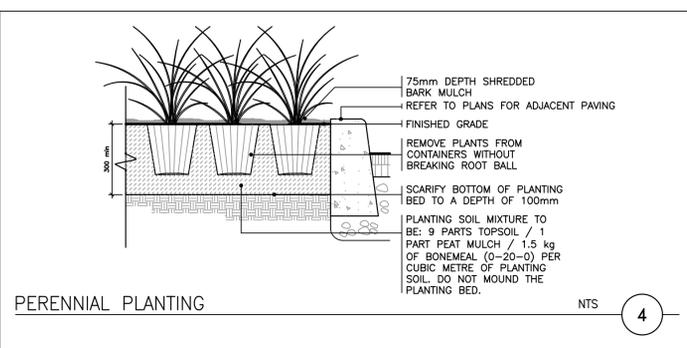
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City of Mississauga Standard Detail 02950-1



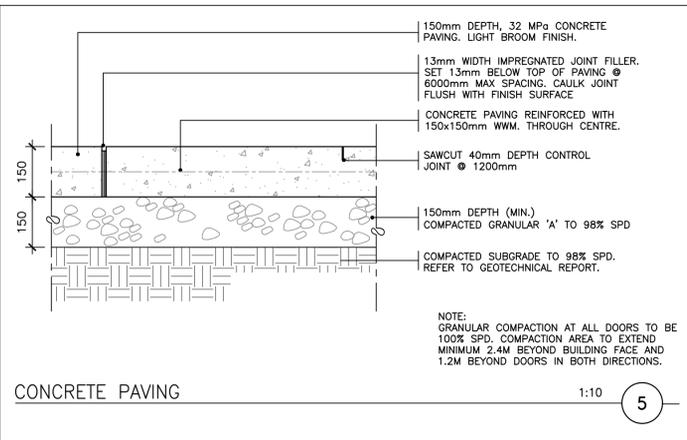
CONIFEROUS TREE PLANTING
City of Mississauga Standard Detail 09950-2



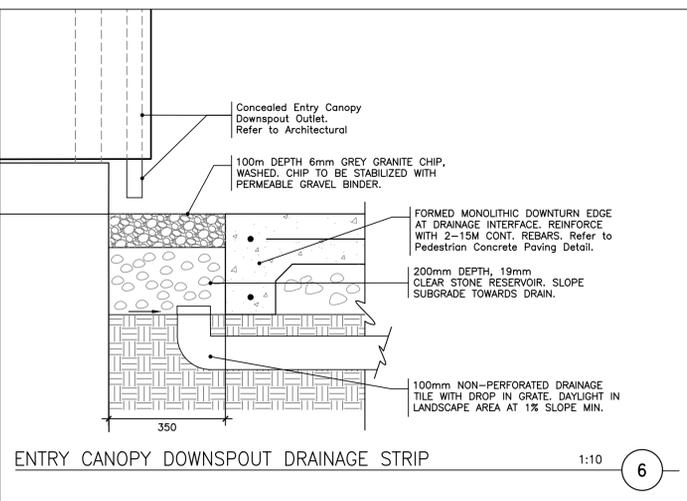
SHRUB PLANTING
City of Mississauga Standard Detail 02950-6



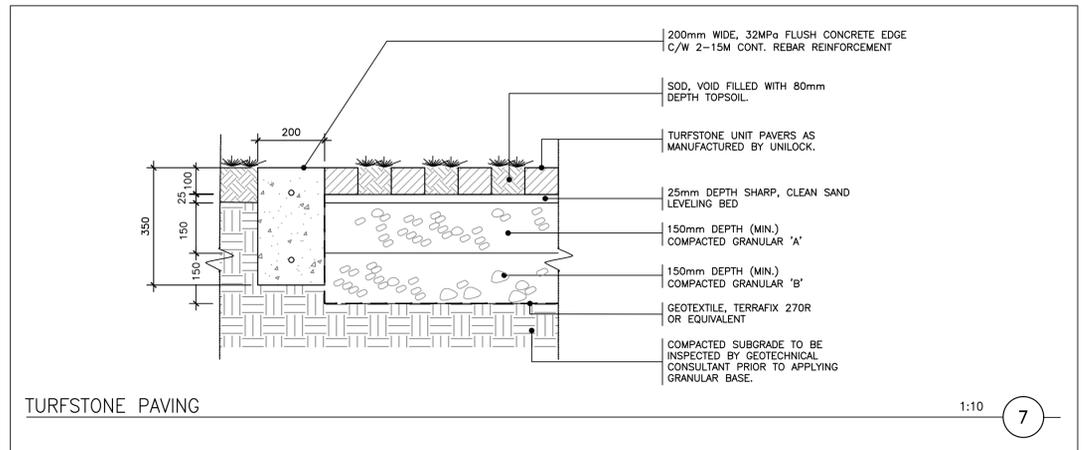
PERENNIAL PLANTING



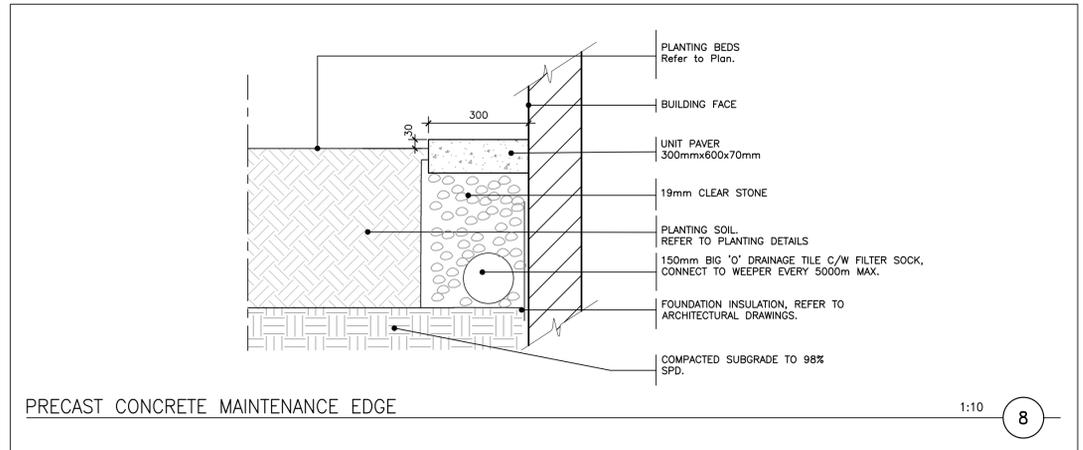
CONCRETE PAVING



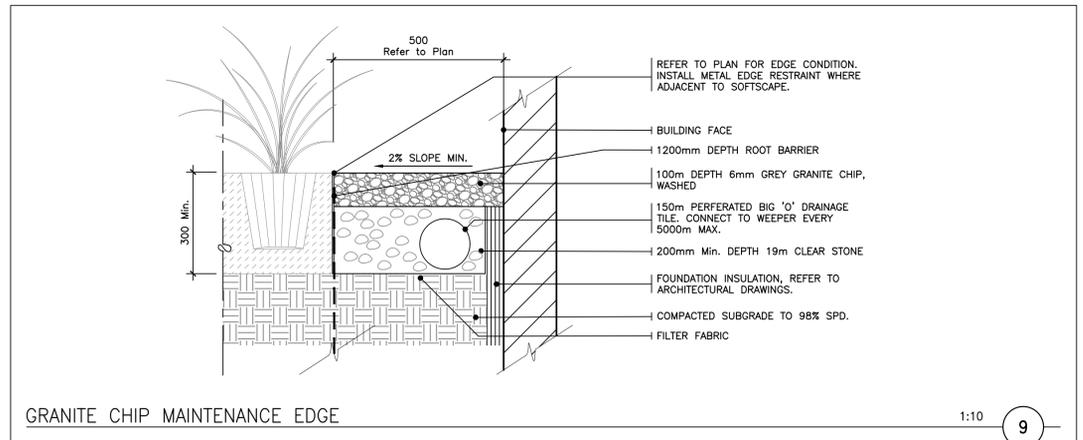
ENTRY CANOPY DOWNSPOUT DRAINAGE STRIP



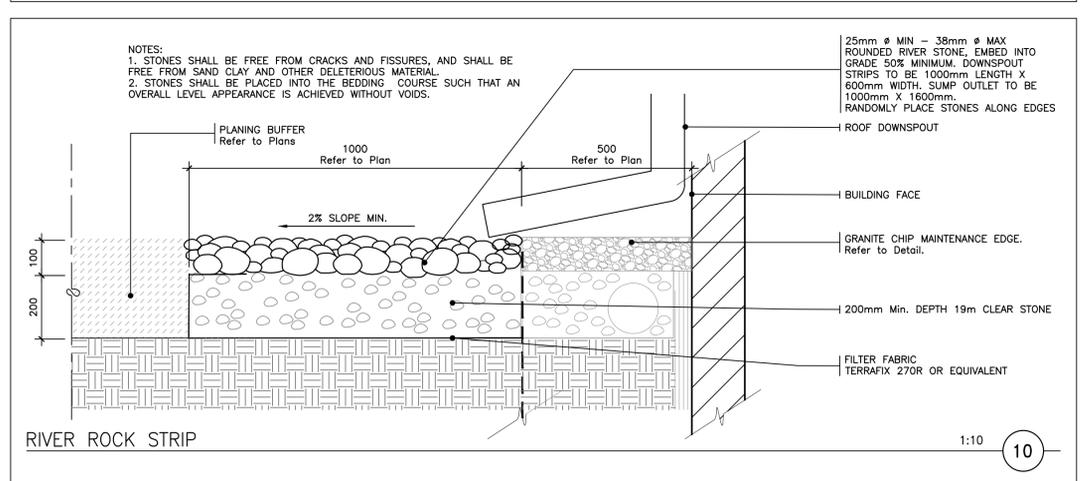
TURFSTONE PAVING



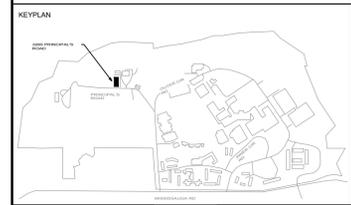
PRECAST CONCRETE MAINTENANCE EDGE



GRANITE CHIP MAINTENANCE EDGE



RIVER ROCK STRIP



| No. | ISSUANCE | DATE |
|-----|---|------------|
| 1 | Issued for Class C Costing | 2023-12-06 |
| 2 | Issued for 100% Schematic Design Review | 2023-12-22 |
| 3 | Issued for Site Plan Approval | 2024-02-02 |
| 4 | Issued for Class B Costing | 2024-03-01 |
| 5 | Issued for Review | 2024-07-11 |
| 6 | Issued for Building Permit | 2024-09-06 |
| 7 | 100% Construction Documentation | 2024-11-05 |
| 8 | Issued for Tender | 2024-11-15 |

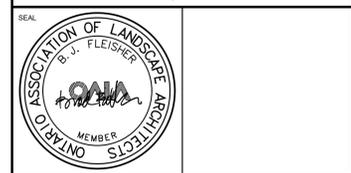
DISCLAIMER:
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CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building
3359 Mississauga Road

TITLE
LANDSCAPE DETAILS

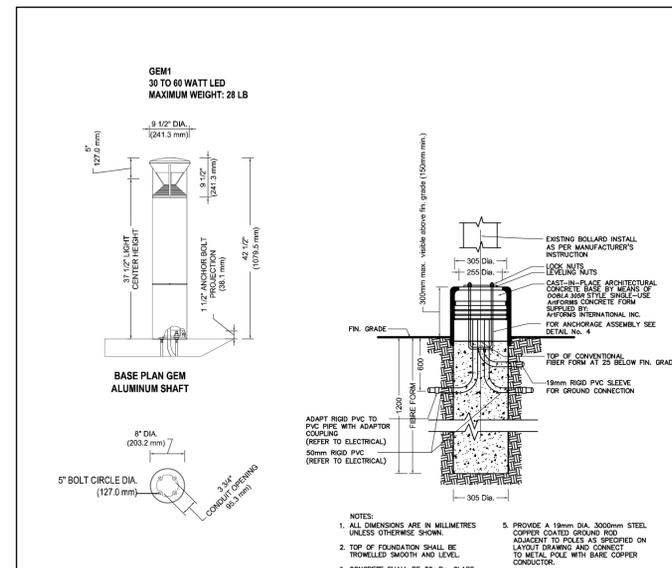
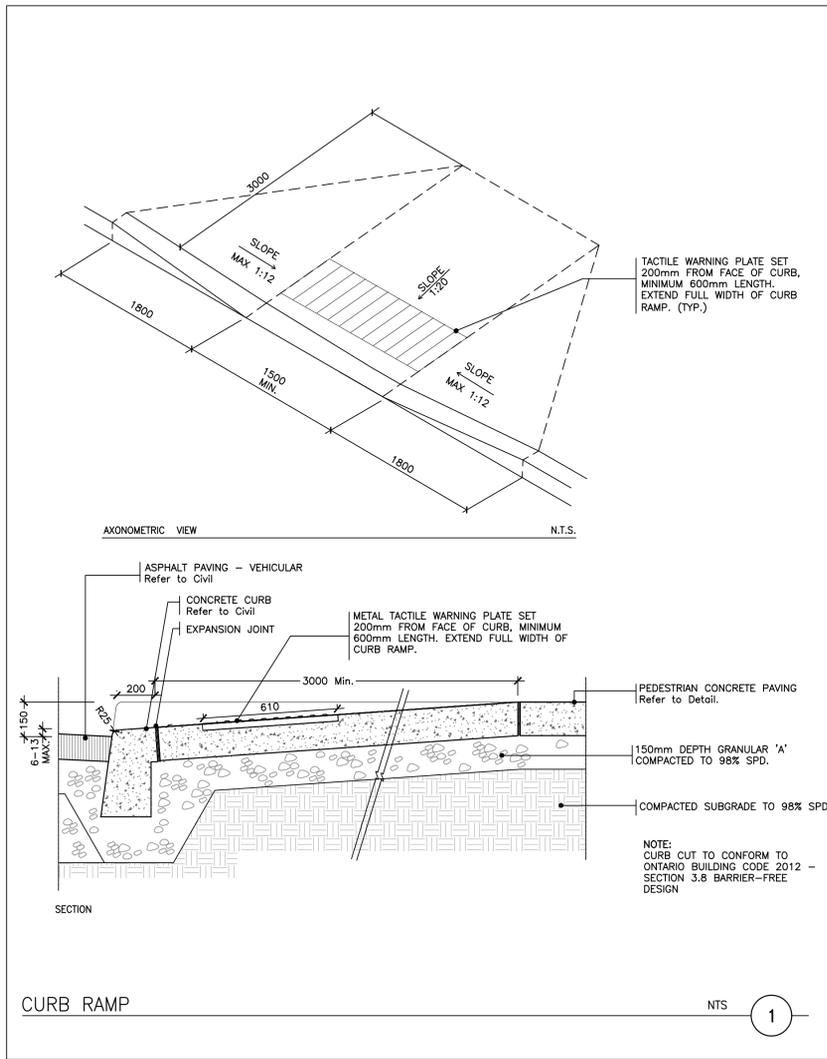


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| DATE: | November 2023 | | |
| PROJECT NO.: | 231533 | | |
| DRAWN BY: | JBK/H | | |
| CHECKED BY: | KWB/F | | |

L300



ARCHITECTURAL CONCRETE FOOTING (ARTFORM) FOR NEW AND EXISTING LIGHTING BOLLARDS

UNIVERSITY OF TORONTO MISSISSAUGA

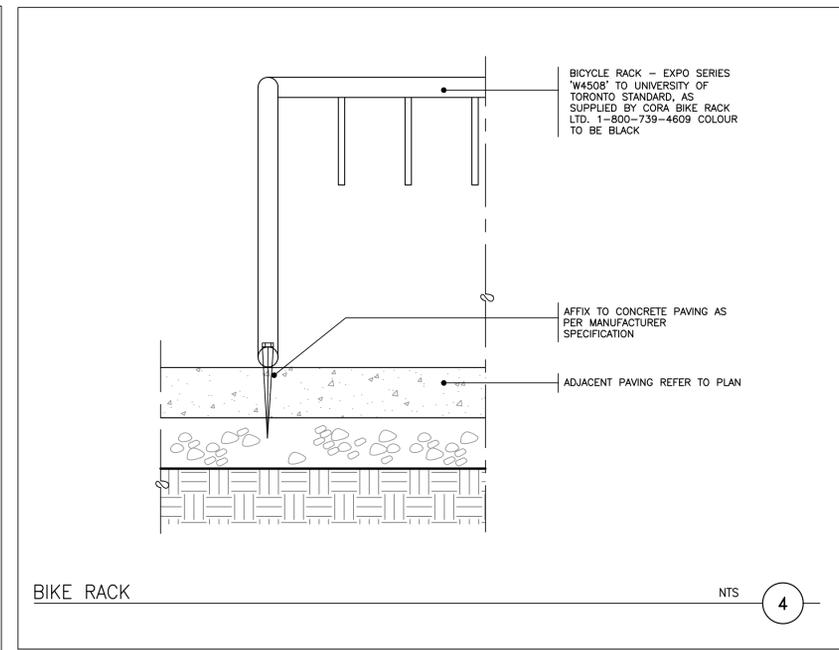
Exterior lighting
UTM Standards for New Construction and Renovations.

| No. | DATE | REVISION |
|-----|-----------|----------|
| 1. | MAY, 2012 | V 1.0 |

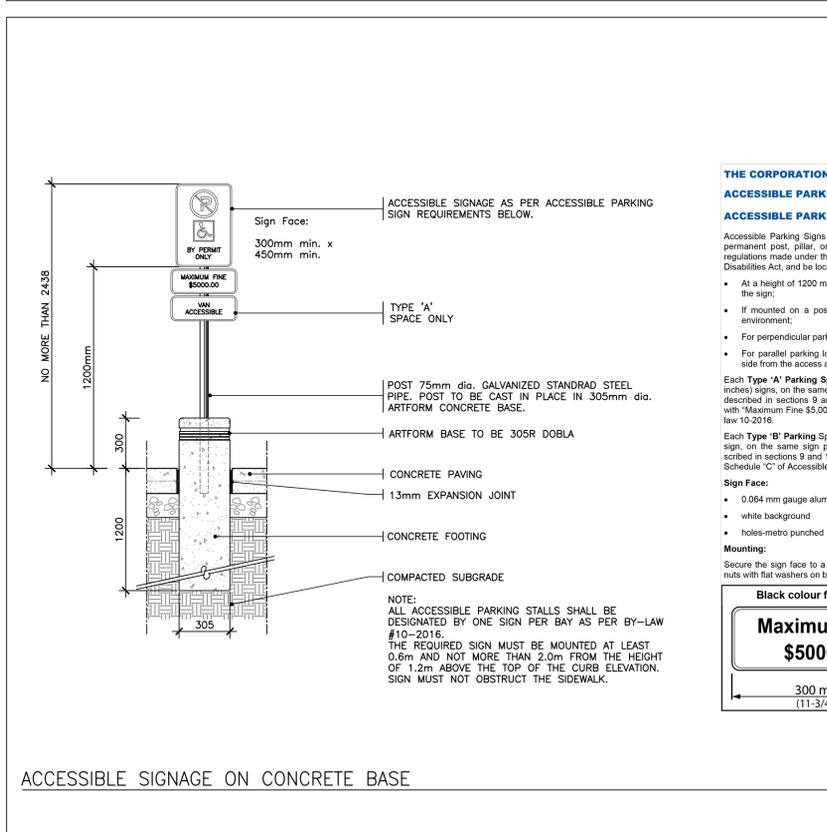
DRAWING TITLE:
LED BOLLARD DETAILS
CONCRETE FOOTING (ARTFORM)

DEVELOPED BY: S. RASHEED
Layout No. **26 56 00 - 8**

LIGHT BOLLARD BASE 3



WASTE / RECYCLING RECEPTACLES 5



THE CORPORATION OF THE CITY OF MISSISSAUGA
ACCESSIBLE PARKING SIGN REQUIREMENTS
ACCESSIBLE PARKING BY-LAW # 10-2016

Accessible Parking Signs shall be mounted on a level wall surface or mounted on a permanent post, pillar, or other suitable surface, conforming to the requirements or regulations made under the Highway Traffic Act and the Accessibility for Ontarians with Disabilities Act, and be located:

- At a height of 1200 mm (47 in.) from the ground/floor surface to the bottom edge of the sign;
- If mounted on a post, the post shall be colour contrasted with the background environment;
- For perpendicular parking centred on the parking space; and
- For parallel parking located toward the end of the parking space, on the opposite side from the access aisle.

Each Type 'A' Parking Space shall have two (2) 150 mm x 300 mm (6 inches x 11 3/4 inches) signs, on the same sign post/wall mount and located immediately below the sign described in sections 9 and 11, with the words "Van Accessible" followed underneath with "Maximum Fine \$5,000.00", as illustrated in Schedule "C" of Accessible Parking By-law 10-2016.

Each Type 'B' Parking Space shall have a 150 mm x 300 mm (6 inches x 11 3/4 inches) sign, on the same sign post/wall mount and located immediately below the sign described in sections 9 and 11, with the words "Maximum Fine \$5,000.00", as illustrated in Schedule "C" of Accessible Parking By-law 10-2016.

Sign Face:

- 0.064 mm gauge aluminum sign blank
- white background
- holes-metro punched

Mounting:
Secure the sign face to a post or wall with two galvanized 12 mm hex. head bolts and nuts with flat washers on both sides.

Sign Face Details:

- Black Letter 'P' and Border
- 20 mm Red Reflective Circular Background
- 15 mm Red Reflective Stroke
- White Reflective Background
- White Reflective Symbol and Border
- Blue Reflective Background and Border
- Black Legend

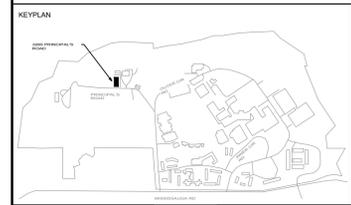
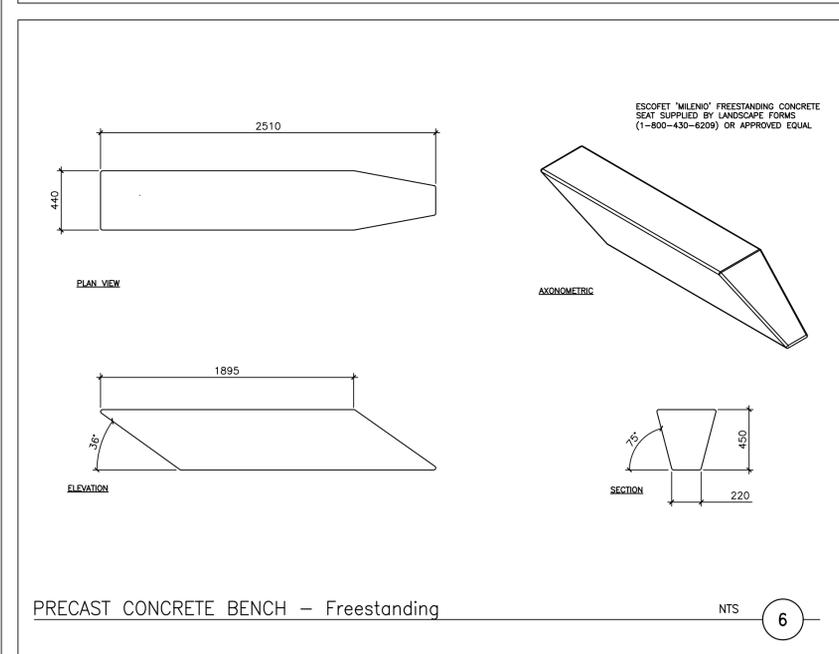
Pavement Marking:
International Symbol of Access - One in Each Accessible Parking Space

Sign Face Dimensions:

- Maximum Fine \$5000.00: 300 mm (11-3/4 in.)
- Van Accessible: 300 mm (11-3/4 in.)

MISSISSAUGA

K:\PLANDEV\CONTL\GROUP\WP\DATA\Jaw\Miscellaneous\AccessibleParkingSign10_2016_Ifcompub



TRUE NORTH PROJECT NORTH

| No. | ISSUANCE | DATE |
|-----|---|------------|
| 1 | Issued for Class C Costing | 2023-12-06 |
| 2 | Issued for 100% Schematic Design Review | 2023-12-22 |
| 3 | Issued for Site Plan Approval | 2024-02-02 |
| 4 | Issued for Class B Costing | 2024-03-01 |
| 5 | Issued for Review | 2024-07-11 |
| 6 | Issued for Building Permit | 2024-09-06 |
| 7 | 100% Construction Documentation | 2024-11-05 |
| 8 | Issued for Tender | 2024-11-15 |

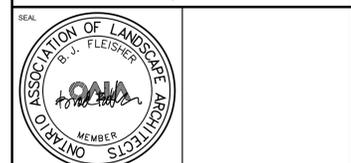
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University of Toronto Mississauga

Pre-Engineered Building

LANDSCAPE DETAILS



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| DATE: | November 2023 | L301 |
| PROJECT NO.: | 231533 | |
| DRAWN BY: | JBK/H | |
| CHECKED BY: | KHBF | |

| DRAWING LIST | |
|--------------|---------------------------------------|
| DWG NO. | DRAWING NAME |
| M001 | MECHANICAL LEGEND, DRAWING LIST |
| M100 | PLUMBING – UNDERSLAB |
| M101 | PLUMBING – GROUND FLOOR AND MEZZANINE |
| M102 | PLUMBING – ROOF |
| M301 | HVAC – GROUND FLOOR AND MEZZANINE |
| M302 | HVAC – ROOF |
| M500 | MECHANICAL DETAILS |
| M501 | MECHANICAL DETAILS |
| M502 | REFRIGERANT PIPING DIAGRAM |
| M800 | MECHANICAL SCHEDULES |

| LEGEND | | | |
|---------------------------------------|-----------------------|------------------------------|--|
| NEW | EXISTING | DEMOLISHED | DESCRIPTION |
| | | | FIRE DAMPER – D/F |
| | | | MANUAL BALANCING DAMPER – D/B |
| | | | STANDARD 'DOUBLE-LINE' DUCTWORK |
| | | | STANDARD 'SINGLE-LINE' DUCTWORK |
| | | | FLEXIBLE DUCT WITH TAKE-OFF C/W MANUAL BALANCING DAMPER |
| | | | RETURN AIR GRILLE |
| | | | SQUARE DIFFUSER |
| | | | ROUND DIFFUSER |
| | | | LINEAR DIFFUSER |
| | | | VAV-BOX |
| | | | HEAT PUMP/FAN COIL/EVAPORATOR |
| | | | EXHAUST FAN |
| | | | THERMOSTAT |
| | | | FAN SWITCH/CONTROLLER |
| | | | CONTROL WIRING |
| | | | CAP |
| | | | TRANSFER-AIR DUCTWORK |
| | | | SANITARY DRAIN IN CEILING SPACE |
| | | | SANITARY DRAIN BELOW FLOOR/BURIED |
| | | | CONDENSATE DRAIN |
| | | | PUMPED SANITARY DRAIN |
| | | | SANITARY VENT |
| | | | DOMESTIC COLD WATER |
| | | | DOMESTIC HOT WATER |
| | | | DOMESTIC HOT WATER RECIRCULATION |
| | | | GATE VALVE |
| | | | CIRCUIT BALANCING VALVE |
| | | | FLOOR DRAIN – F.D. |
| | | | UNDER FLOOR CLEANOUT |
| | | | IN-FLOOR CLEANOUT |
| | | | FIRE LINE |
| | | | SPRINKLER LINE |
| | | | FIRE HOSE CABINET |
| | | | FIRE EXTINGUISHER |
| | | | UPRIGHT SPRINKLER HEAD |
| | | | PENDANT SPRINKLER HEAD |
| | | | SEMI-RECESSED SPRINKLER HEAD |
| | | | RECESSED SPRINKLER HEAD |
| | | | MISC. MECHANICAL COMPONENTS |
| MAX. AIR QUANTITY 000 SIZE 0 | MIN. AIR QUANTITY 000 | MAX. AIR QUANTITY 400 SIZE 6 | TERMINAL BOX DESIGNATION |
| SIZE 00"x00" AIR QUANTITY 0000 TYPE A | | AIR QUANTITY 120 | DIFFUSER OR GRILLE DESIGNATION |
| | | | RELOCATED EQUIPMENT |

| No. | ISSUANCE | DATE |
|-----|-------------------------------|------------|
| 1 | ISSUED FOR DESIGN DEVELOPMENT | 01/03/2024 |
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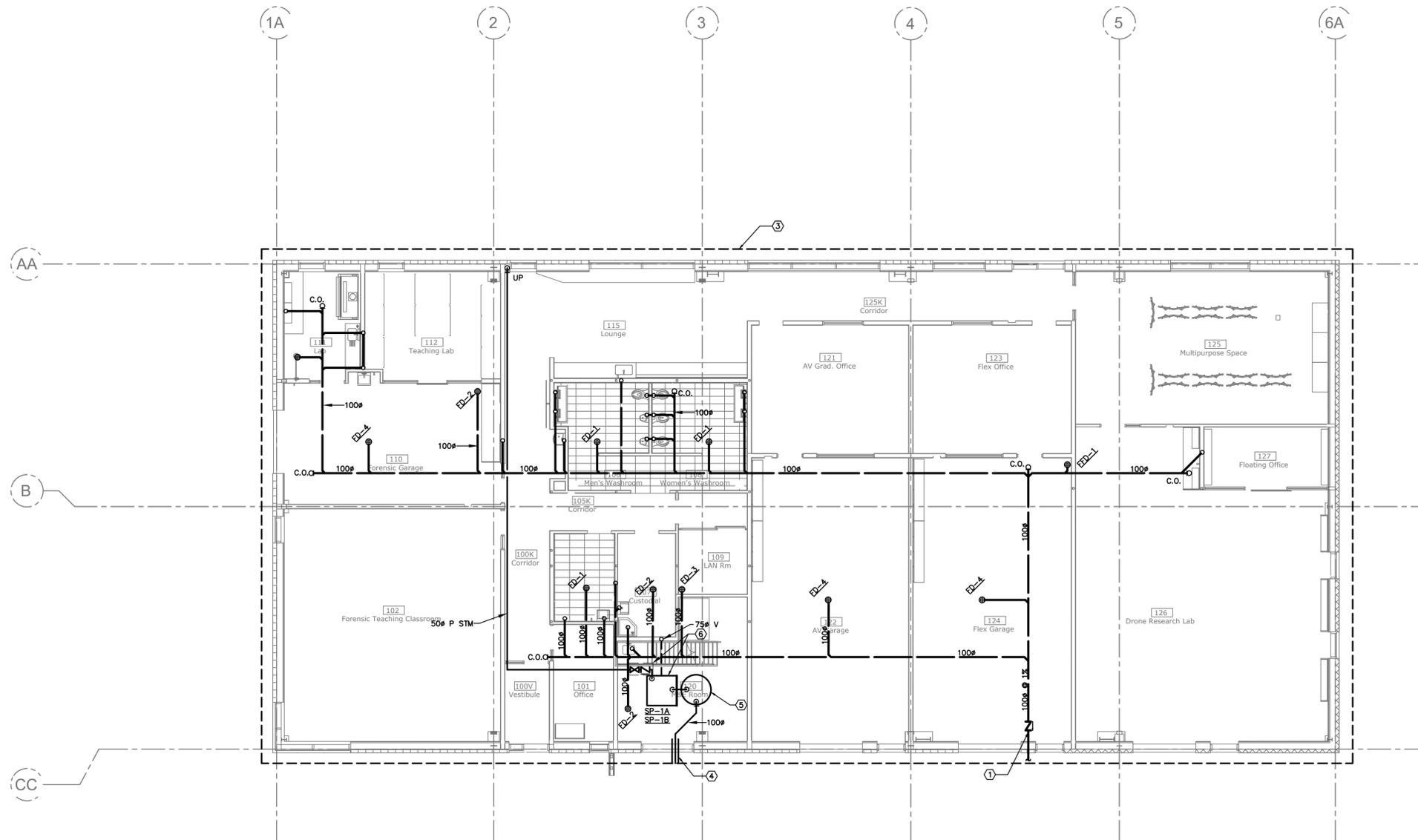
PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

TITLE
MECHANICAL LEGEND, DRAWING LIST



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DATE : FEB 2024
PROJECT NO : 2023-0059
DRAWN BY : LT
CHECKED BY : MS



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 - PROVIDE TRAP SEAL PRIMERS FOR ALL TRAPS OF FLOOR DRAINS.
- DRAWING NOTES:**
- PROVIDE BACKWATER VALVE ON LEAVING SANITARY CONNECTION.
 - PROVIDE BACKWATER VALVE ON LEAVING STORM WATER CONNECTION.
 - 100# WEeping TILE SYSTEM LOCATED APPROXIMATELY 1200MM BELOW GRADE.
 - 100# SOLID DRAIN PIPE SHALL CONNECT TO PERIMETER WEeping TILE SYSTEM. SHALL BE PROPERLY SEALED THROUGH FOUNDATION WALL.
 - 900mm DIAMETER X 3000mm DEEP SAND TRAP PIT.
 - 1200x1200x3500 GROUNDWATER SUMP PIT COMPLETE WITH DUPLEX SUMP PUMP, CONTROLS, FLOATS. REFER TO DETAIL 3 ON DRAWING M-500 FOR MORE INFORMATION. PROVIDE ACCESS HATCH FOR CHECK VALVES AND ISOLATION VALVES

| No. | ISSUANCE | DATE |
|-----|-------------------------------|------------|
| 1 | ISSUED FOR DESIGN DEVELOPMENT | 01/03/2024 |
| 2 | ISSUED FOR PERMIT | 13/09/2024 |
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PROJECT
 PRE-ENGINEERED BUILDING
 3359 MISSISSAUGA ROAD

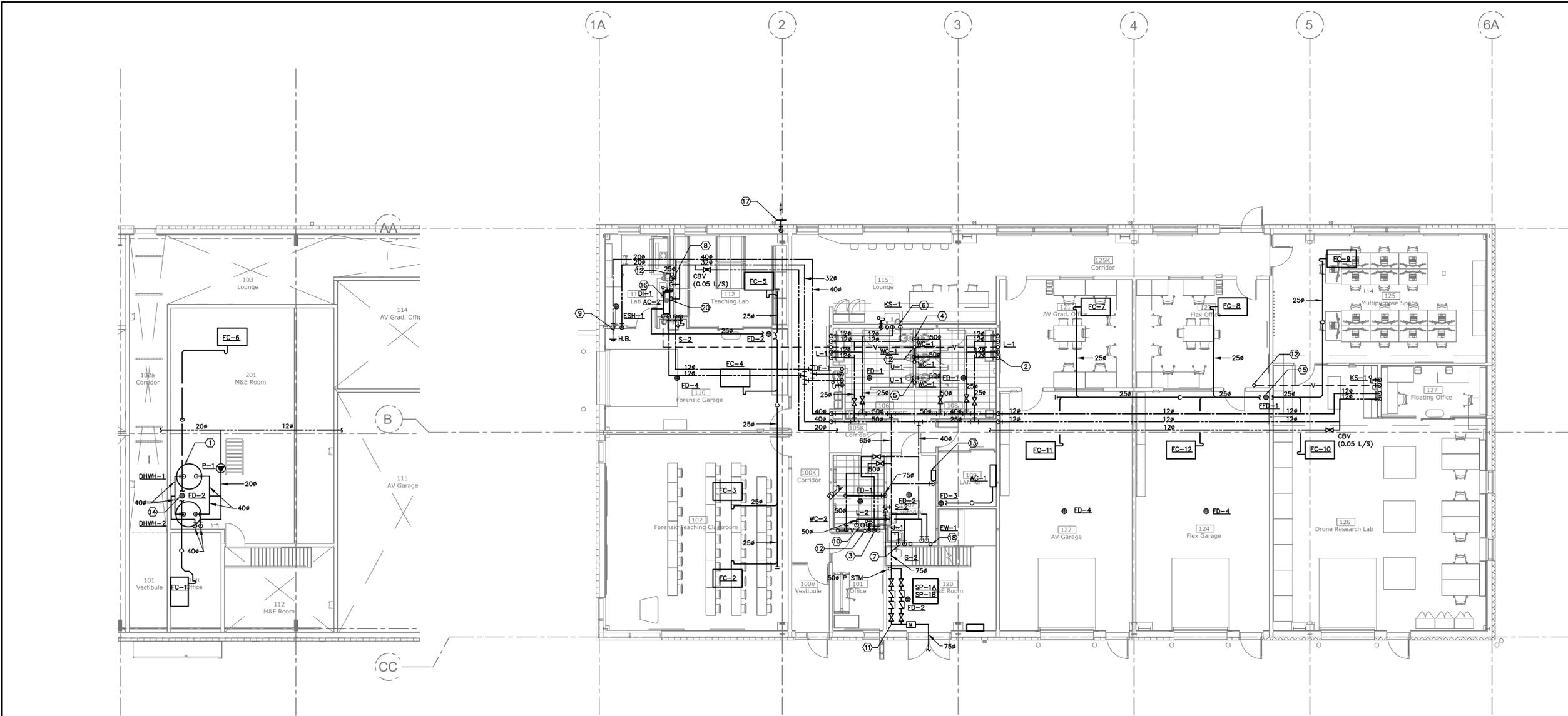
TITLE
 PLUMBING - UNDERSLAB

THEHIDIGROUP
 155 Gordon Baker Road, Suite 200
 Toronto, ON M2H 3N5 Canada
 t. 416 364 2100 | HIDI.com



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PROJECT
 PRE-ENGINEERED BUILDING
 3359 MISSISSAUGA ROAD

TITLE
 PLUMBING - GROUND FLOOR AND MEZZANINE

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 t. 416 364 2100 | HIDI.com

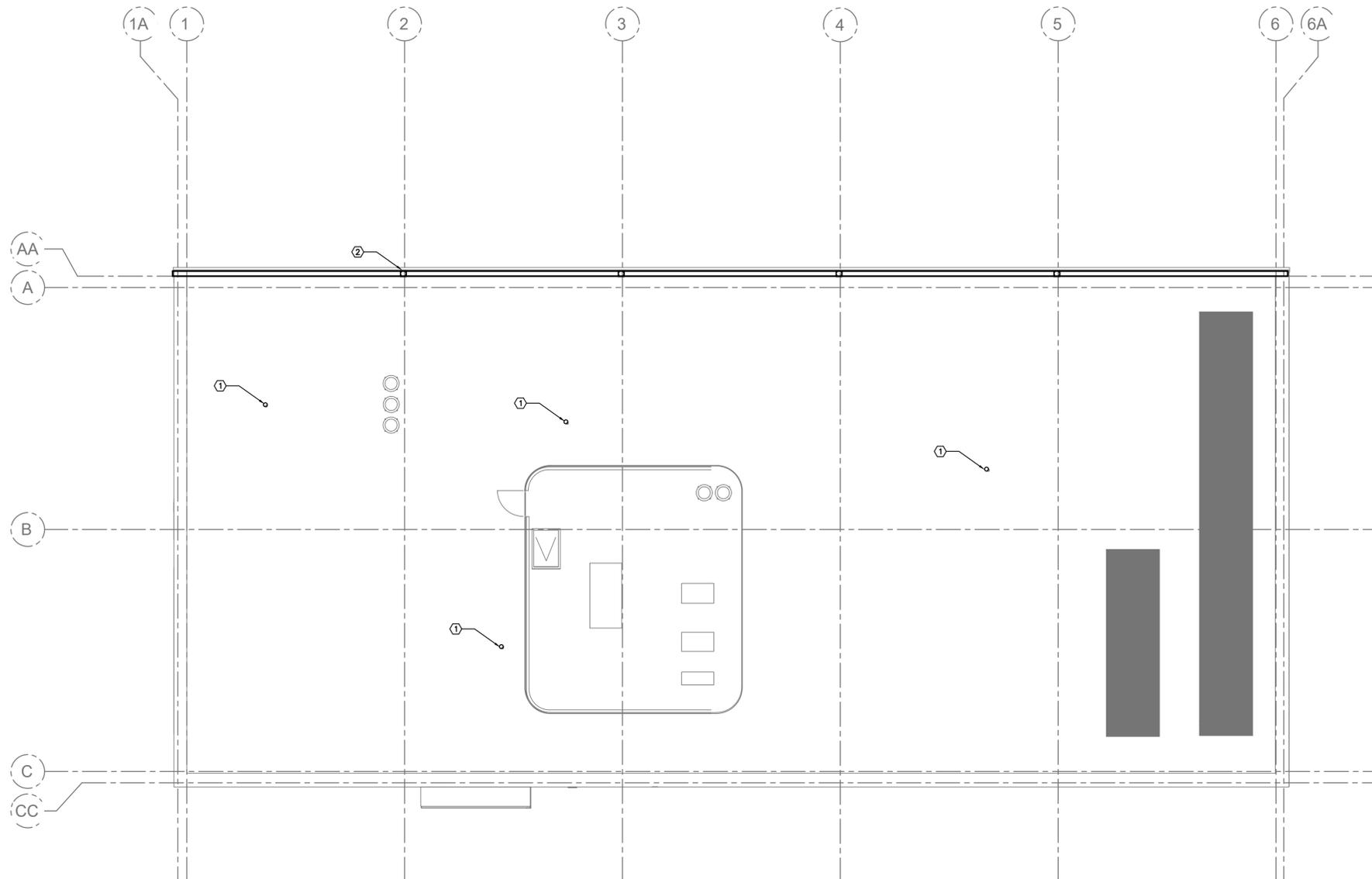


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- DO NOT SCALE DRAWINGS. LOCATIONS OF ITEMS ARE APPROXIMATE AND ARE INTENDED TO BE USED FOR COORDINATION. EXACT LOCATIONS ARE DEPENDANT UPON SITE CONDITIONS. REVIEW ANY REVISIONS WITH CONSULTANT.
 - PROVIDE ALL SANITARY VENTING TO BE SIZED AND INSTALLED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE.
 - PROVIDE WATER HAMMER ARRESTORS IN ACCORDANCE WITH PLUMBING AND DRAINAGE INSTITUTE STANDARD PDI-WH201 AND MANUFACTURER'S INSTRUCTIONS. WATER HAMMER ARRESTORS SHALL BE STAINLESS STEEL CONSTRUCTION WITH NESTING BELLOWS PRECHARGED WITH AIR - WADE 'SHOCKSTOP' OR EQUAL.
 - PROVIDE TRAP SEAL PRIMERS FOR ALL TRAPS OF FLOOR DRAINS.
- DRAWING NOTES:**
- PROVIDE AND INSTALL NEW ELECTRIC DOMESTIC HOT WATER TANK IN MECHANICAL MEZZANINE C/W 20# DRAIN LINE. DRAIN LINE TO BE PIPED FLOOR DRAIN. REFER TO DETAIL 2 ON DRAWING M-500 FOR MORE INFORMATION.
 - EXTEND 12# HOT AND COLD WATER LINES DOWN TO NEW 'L-1', 30# VENT LINE UP FROM 'L-1' AND 40# SANITARY LINE DOWN FROM 'L-1'. (TYPICAL)
 - EXTEND 12# HOT AND COLD WATER LINES DOWN TO NEW 'L-2', 30# VENT LINE UP FROM 'L-2' AND 40# SANITARY LINE DOWN FROM 'L-2'. (TYPICAL)
 - EXTEND 40# COLD WATER LINE DOWN TO NEW 'WC-1', 50# VENT LINE UP FROM 'WC-1' AND 75# SANITARY LINE DOWN FROM 'WC-1'. (TYPICAL)
 - EXTEND 40# COLD WATER LINE DOWN TO NEW 'U-1', 50# VENT LINE UP FROM 'U-1' AND 75# SANITARY LINE DOWN FROM 'U-1'. (TYPICAL)
 - EXTEND 20# HOT AND COLD WATER LINE DOWN TO NEW 'KS-1', 30# VENT LINE UP FROM 'KS-1' AND 40# SANITARY LINE DOWN FROM 'KS-1'. (TYPICAL)
 - EXTEND 12# HOT AND COLD WATER LINE DOWN TO NEW 'L-1' AND TWO (2) 'S-2', 50# VENT LINE UP FROM 'L-1' AND TWO (2) 'S-2' AND 40# SANITARY LINE DOWN FROM 'L-1' AND TWO (2) 'S-2'.
 - EXTEND HOT AND COLD WATER, SANITARY DRAIN, AND VENT TO NEW LABORATORY SINK AND EYEWASH STATION. REFER TO ARCHITECTURAL DRAWINGS FOR PRODUCT SPECIFICATION. CONTRACTOR SHALL PROVIDE ROUGH-IN CONNECTIONS AND ALLOW FOR FINAL HOOK-UP. (TYPICAL)
 - EXTEND 12# HOT AND COLD WATER LINE DOWN TO NEW EMERGENCY SHOWER, PROVIDE MIXING VALVE AND PROVIDE TEMPERED WATER TO EMERGENCY SHOWER FIXTURE. PROVIDE FLOOR DRAIN.
 - 40# DOMESTIC HOT AND COLD WATER LINE UP TO MECHANICAL MEZZANINE.
 - PROVIDE WATER METER AND BACKFLOW PREVENTER ON INCOMING DOMESTIC WATER LINE. PROVIDE EXPANSION TANK ET-1.
 - PLUMBING VENT UP TO ROOF. (TYPICAL)
 - PROVIDE ELECTRONIC TRAP SEAL PRIMER.
 - VRF COIL CONDENSATE DRAIN LINE TO TERMINATE INDIRECTLY INTO JANITOR'S SINK.
 - VRF COIL CONDENSATE DRAIN LINE TO TERMINATE INDIRECTLY AT FUNNEL FLOOR DRAIN.
 - PROVIDE DISTILLED WATER SYSTEM C/W 12mm DCW CONNECTION AND DEDICATED FAUCET.
 - GROUNDWATER STORM DISCHARGE AT GRADE FROM PUMPED STORM LINE BELOW.
 - VENT FROM SUMP PIT.
 - RESERVED.
 - PROVIDE 12# COLD WATER CONNECTION DOWN TO NEW WATER PURIFICATION SYSTEM Q-1, CONNECT TO FAUCET, REFER TO ARCHITECTURAL SPECIFICATIONS FOR FAUCET.

PROVIDE PLUMBING VENTING AS PER OBC



| No. | ISSUANCE | DATE |
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| 3 | ISSUED FOR TENDER | 26/11/2024 |
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PROJECT
 PRE-ENGINEERED BUILDING
 3359 MISSISSAUGA ROAD

TITLE
 PLUMBING - ROOF

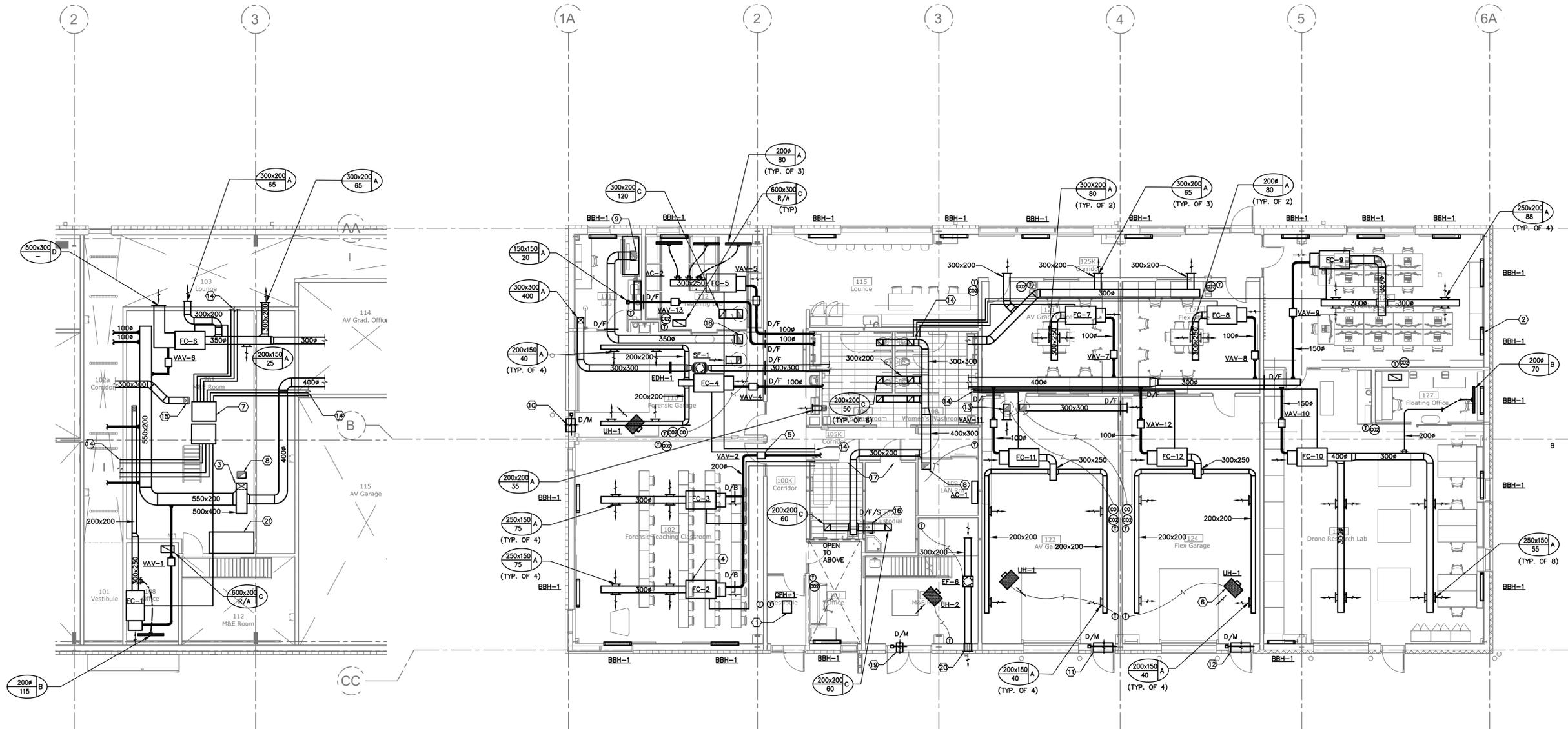
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| SCALE : | 1:100 | | |
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| PROJECT NO. : | 2023-0059 | | |
| DRAWN BY : | LT | | |
| CHECKED BY : | MS | | |

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- DO NOT SCALE DRAWINGS. LOCATIONS OF ITEMS ARE APPROXIMATE AND ARE INTENDED TO BE USED FOR COORDINATION. EXACT LOCATIONS ARE DEPENDANT UPON SITE CONDITIONS. REVIEW ANY REVISIONS WITH CONSULTANT.
 - PROVIDE ALL SANITARY VENTING TO BE SIZED AND INSTALLED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE.
- DRAWING NOTES:**
- PLUMBING VENT. (TYPICAL)
 - PERIMETER ROOF GUTTER COMPLETE WITH RAINWATER LEADERS. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION. (TYPICAL 4)



| No. | ISSUANCE | DATE |
|-----|-------------------------------|------------|
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| 3 | ISSUED FOR TENDER | 26/11/2024 |

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PROJECT
 PRE-ENGINEERED BUILDING
 3359 MISSISSAUGA ROAD

TITLE
 HVAC - GROUND FLOOR AND MEZZANINE

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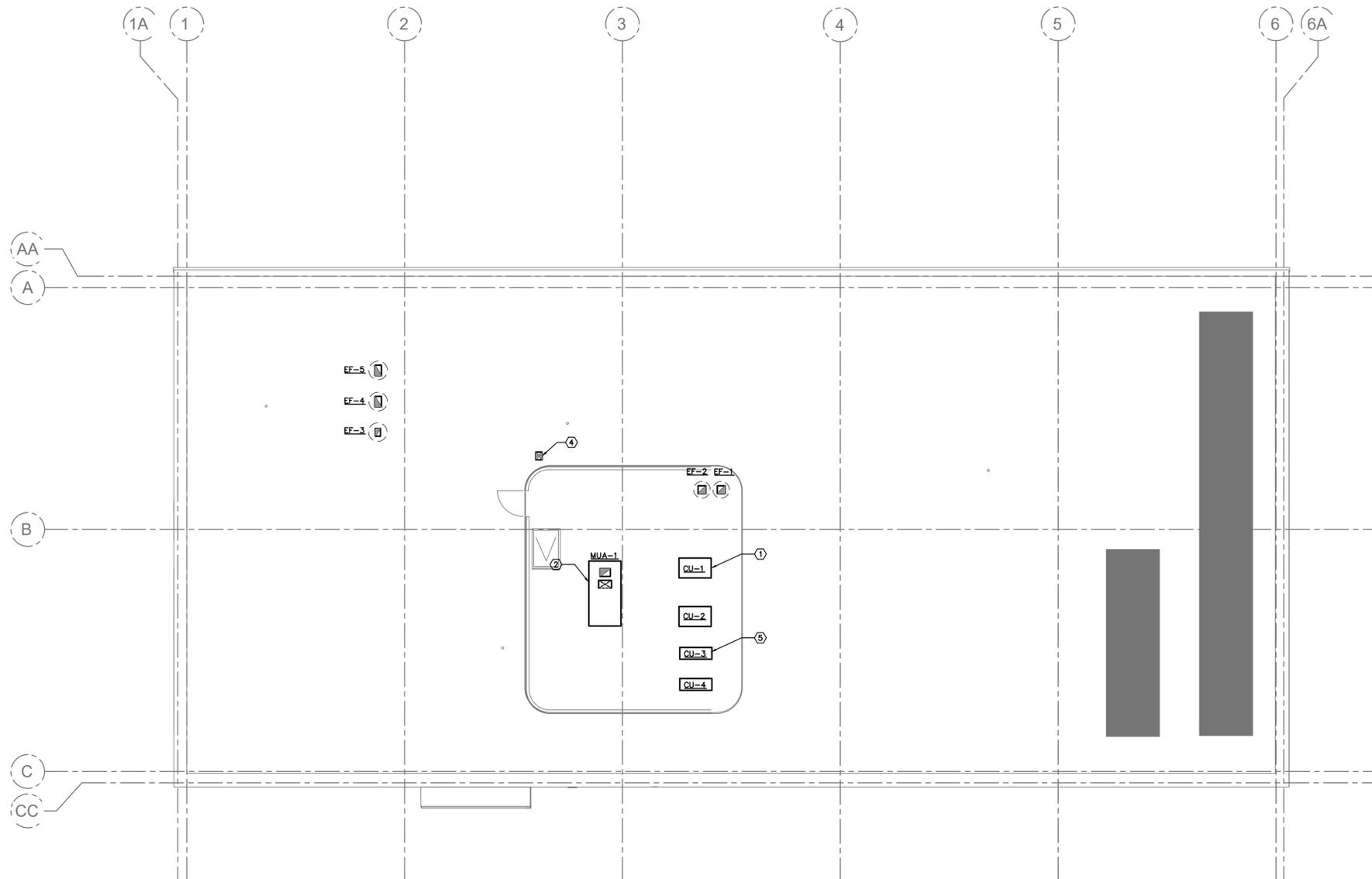


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M301

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 - CONTRACTOR SHALL BALANCE THE SYSTEM BASED ON THE AIR VALUES AS SHOWN.
- DRAWING NOTES:**
- PROVIDE CEILING FAN HEATER C/W REMOTE THERMOSTAT. (TYPICAL)
 - PROVIDE SEPARATE PRICE FOR SUPPLY AND INSTALLATION OF ALL BASEBOARD HEATERS (TYPICAL).
 - MAKE-UP AIR DUCT UP TO ROOF.
 - PROVIDE VRF SYSTEM INCLUDING INDOOR FAN COIL UNITS, CONDENSING UNIT, BRANCH SELECTOR BOX, REFRIGERANT PIPING, AND ALL CONTROLS. REFER TO DETAIL MXX FOR MORE INFORMATION. (TYPICAL)
 - PROVIDE VAV BOXES AS SHOWN. VAV BOX SHALL BE INTERLOCKED WITH ROOM CO2 SENSOR FOR DEMAND CONTROL VENTILATION. (TYPICAL)
 - PROVIDE ELECTRIC UNIT HEATER. (TYPICAL)
 - VRF HEAT RECOVERY BRANCH SELECTOR BOX. (TYPICAL 2)
 - EXHAUST DUCT UP TO ROOF. (TYPICAL)
 - LABORATORY EXHAUST FUME HOOD DUCTED UP TO ROOF MOUNTED EXHAUST FAN.
 - 600x300 INTAKE AIR LOUVER, RAINPROOF, BIRDSCREEN. PROVIDE MOTORIZED DAMPER INTERLOCKED WITH GARAGE EXHAUST FAN.
 - 900x300 INTAKE AIR LOUVER, RAINPROOF, BIRDSCREEN. PROVIDE MOTORIZED DAMPER INTERLOCKED WITH GARAGE EXHAUST FAN.
 - 900x300 INTAKE AIR LOUVER, RAINPROOF, BIRDSCREEN. PROVIDE MOTORIZED DAMPER INTERLOCKED WITH GARAGE EXHAUST FAN.
 - GARAGE EXHAUST FAN SHALL BE INTERLOCKED WITH CARBON MONOXIDE AND NITROUS DIOXIDE DETECTION SYSTEM. (TYPICAL 3)
 - REFRIGERANT PIPING. (TYPICAL)
 - SUPPLY INTAKE DUCT UP TO ROOF COMPLETE WITH GOOSENECK.
 - PROVIDE BACKDRAFT DAMPER.
 - PROVIDE 20mm DOOR UNDERCUT FOR TRANSFER AIRFLOW
 - SLOPE LABORATORY EXHAUST DUCTWORK AND PROVIDE DRAIN IN DUCTWORK AT LOWEST POINT. DRAIN SHALL TERMINATE AT NEARBY FLOOR DRAIN.
 - 300x300 INTAKE AIR LOUVER, RAINPROOF, BIRDSCREEN. PROVIDE MOTORIZED DAMPER INTERLOCKED WITH EXHAUST FAN.
 - 300x200 EXHAUST LOUVER, RAINPROOF, BIRDSCREEN.
 - OPERATOR WORK STATION (OWS) FOR BUILDING AUTOMATION SYSTEM.



GENERAL NOTES:

- DO NOT SCALE DRAWINGS. LOCATIONS OF ITEMS ARE APPROXIMATE AND ARE INTENDED TO BE USED FOR COORDINATION. EXACT LOCATIONS ARE DEPENDANT UPON SITE CONDITIONS. REVIEW ANY REVISIONS WITH CONSULTANT.

DRAWING NOTES:

- VRF CONDENSER UNITS. (TYPICAL).
- PROVIDE DEDICATED OUTDOOR AIR SYSTEM MUA-1 COMPLETE WITH ROOF CURB, DUCTWORK, CONTROLS.
- PROVIDE ROOF MOUNTED EXHAUST FAN COMPLETE WITH ROOF CURB, DUCTWORK, AND ALL CONTROLS. (TYPICAL)
- SUPPLY INTAKE DUCTWORK WITH GOOSENECK
- CONDENSER UNITS. CONTRACTOR TO ENSURE ALL NECESSARY CLEARANCES ARE ACCOMMODATED. (TYPICAL)

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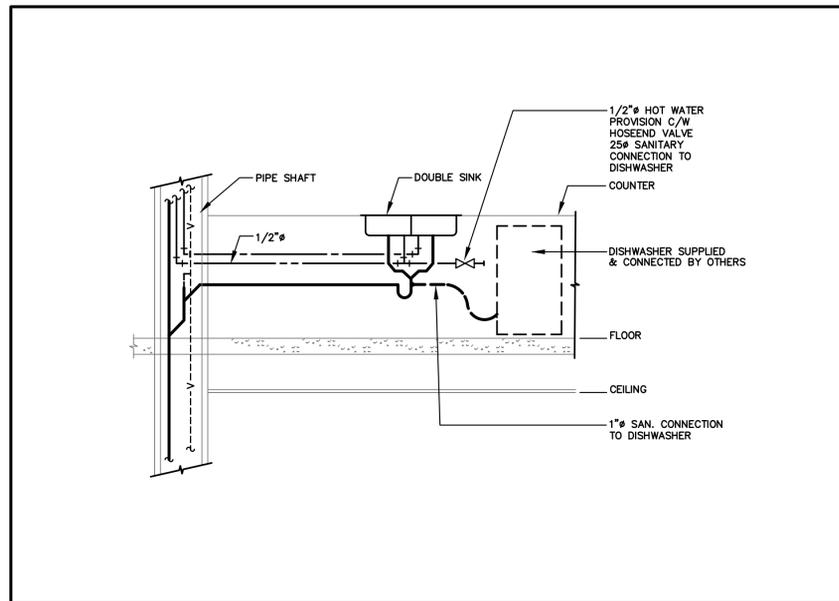
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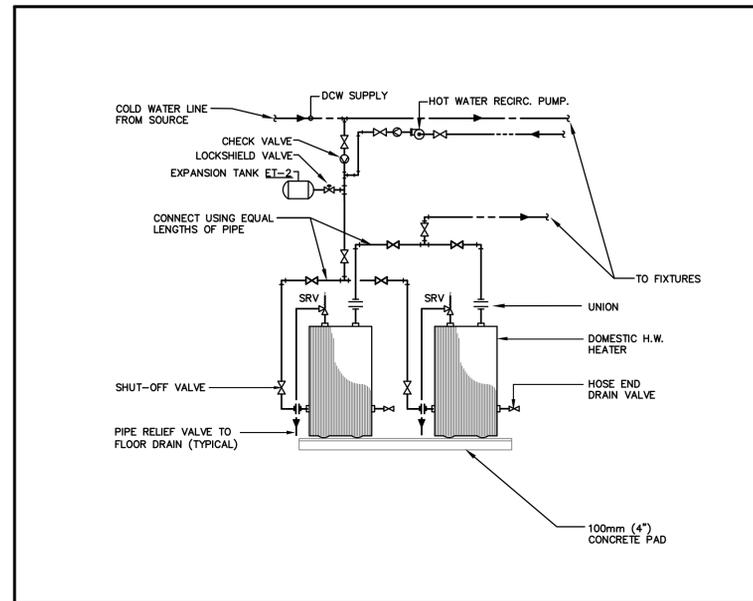


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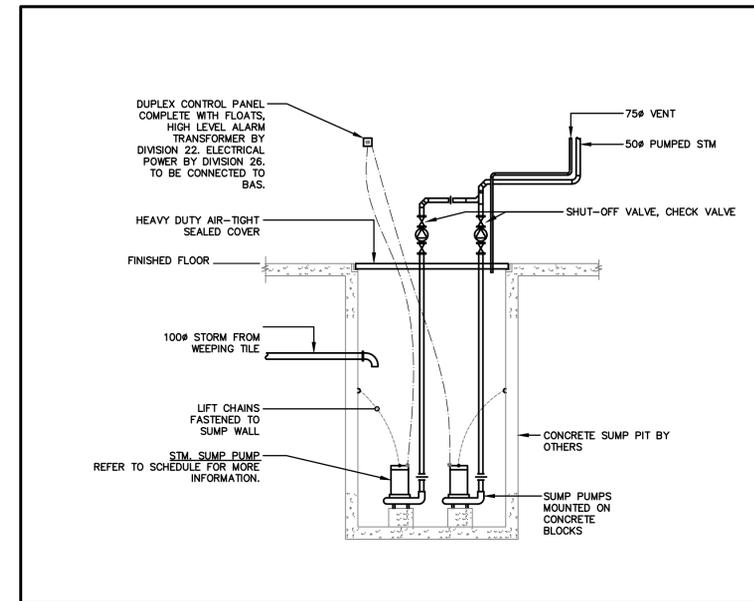
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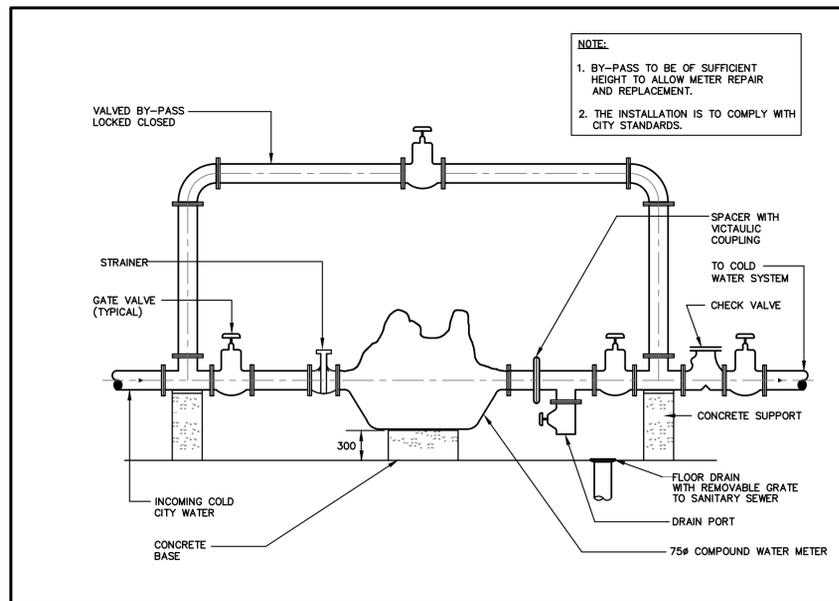
1 DISHWASHER PIPING CONNECTION DETAIL
M-500 N.T.S.



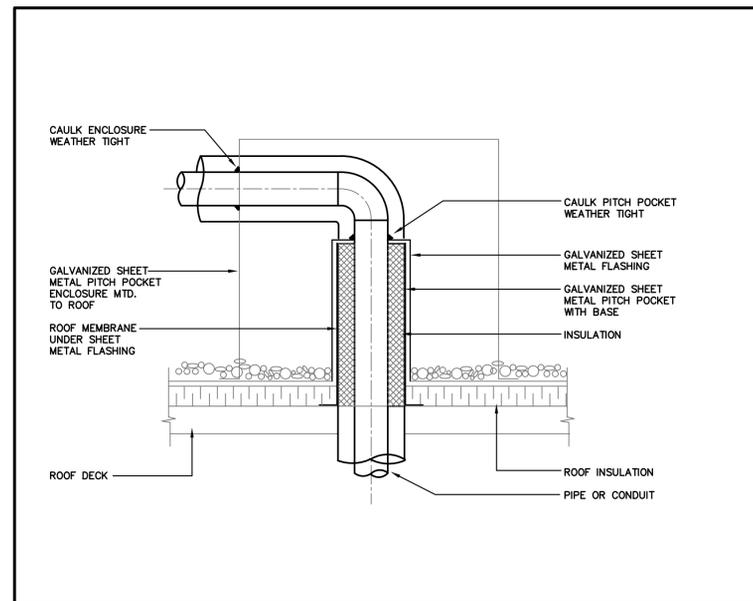
2 FLOOR MOUNT ELECTRIC DOMESTIC HOT WATER TANK DETAIL
M-500 N.T.S.



3 GROUNDWATER SUMP PUMP DETAIL
M-500 N.T.S.



4 WATER METER
M-500 N.T.S.



5 PITCH POCKET DETAIL
M-500 N.T.S.

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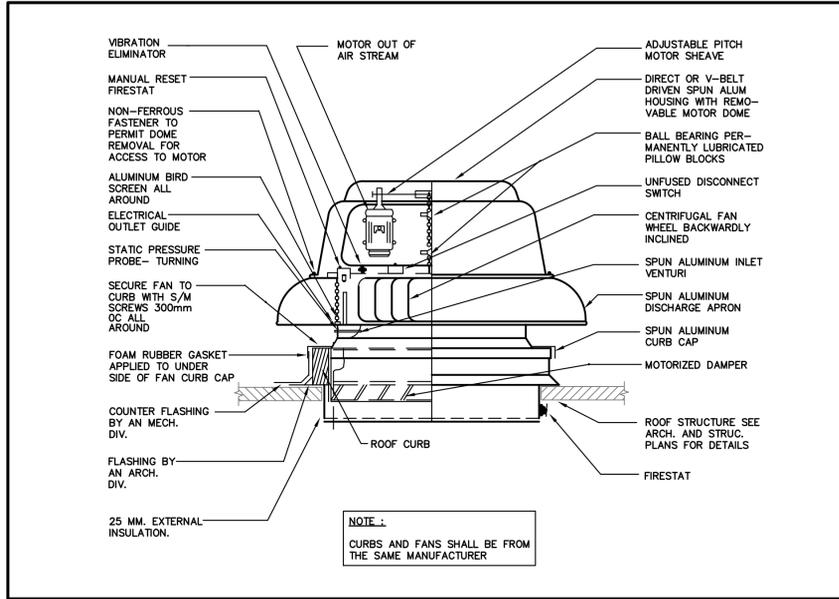
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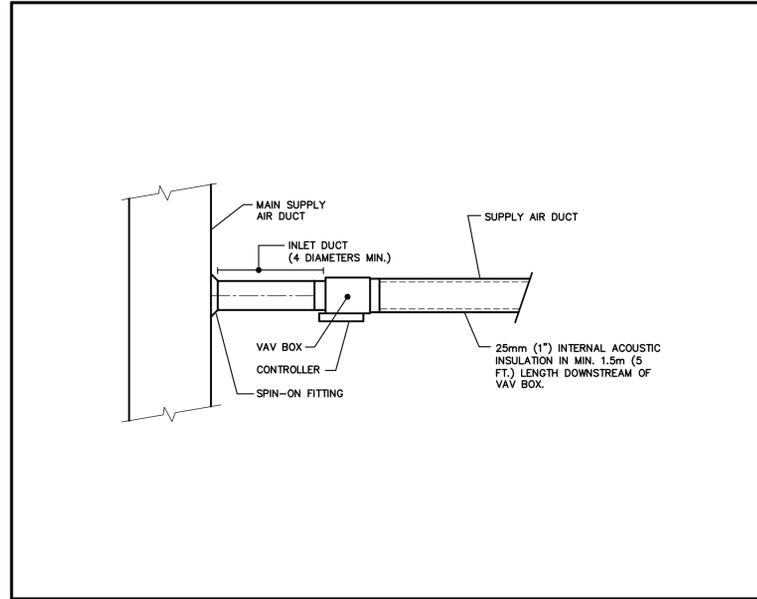
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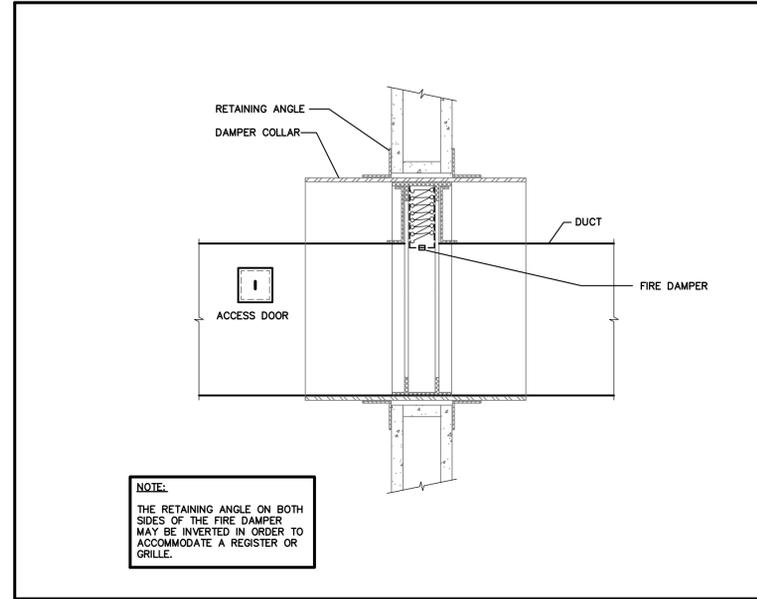
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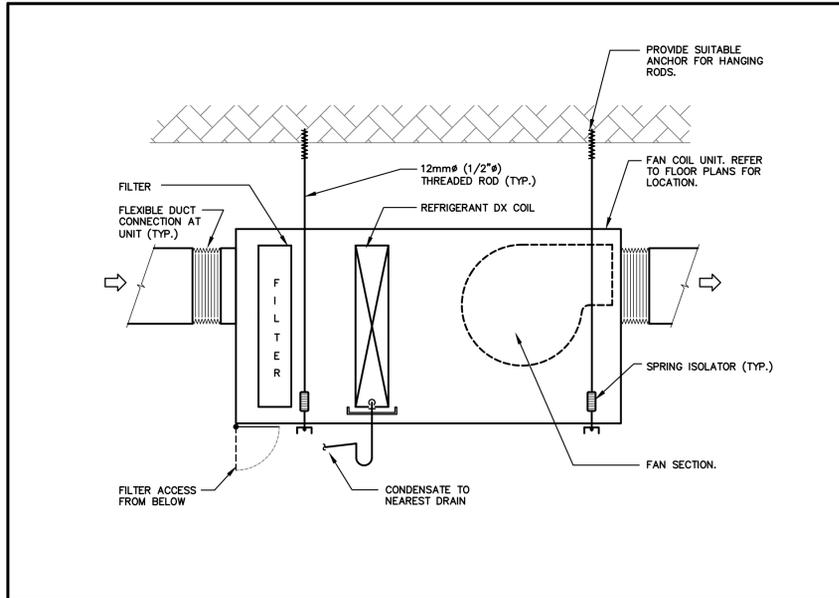
1 ROOF MTG. CENTRIFUGAL EXHAUST FAN
M-501 N.T.S.



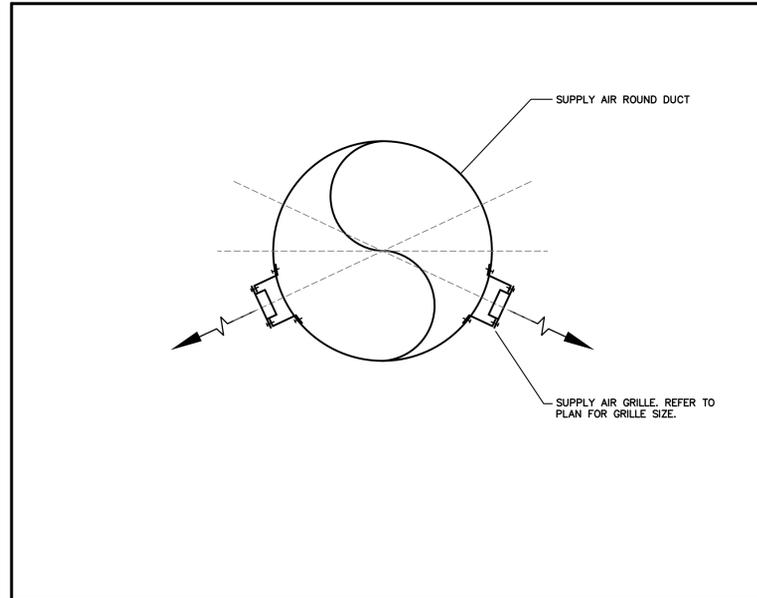
2 VAV BOX DETAIL
M-501 N.T.S.



3 FIRE DAMPER INSTALLATION DETAIL
M-501 N.T.S.



4 VRF INDOOR UNIT INSTALLATION DETAIL
M-501 N.T.S.



5 ROUND DUCT SUPPLY AIR GRILLE LOCATION
M-501 N.T.S.

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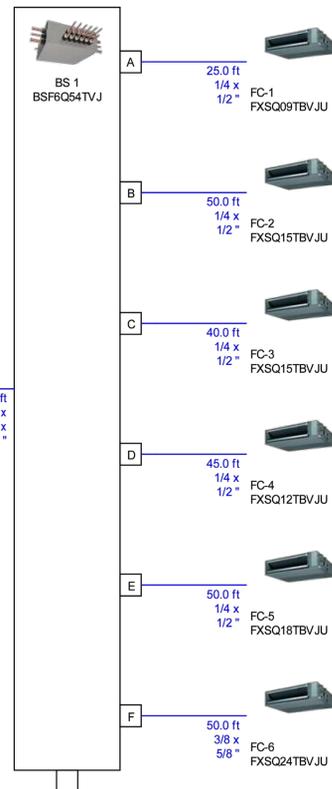
M501



3. Piping Diagrams

Piping CU-1

CU-1
REYQ96AATJA



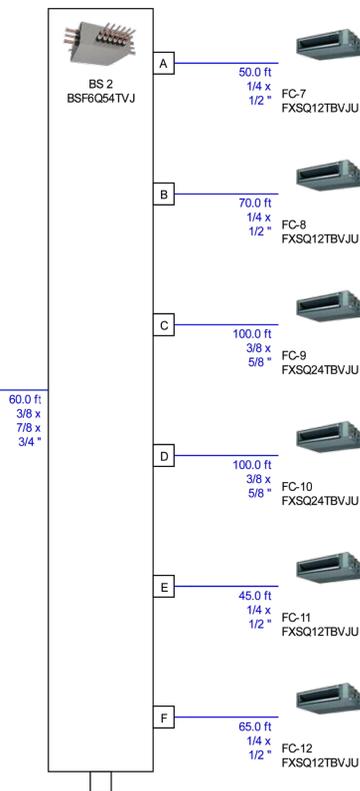
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4



Piping CU-2

CU-2
REYQ96AATJA



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VARIABLE REFRIGERANT FLOW (VRF) SCHEDULE

| INDOOR UNITS | | | | | | | | | | | | OUTDOOR UNITS | | | | | | | | | | | | BRANCH SELECTOR BOX | ELEC. (V/PH/Hz) | MCA (A) | REFRIGERANT | EMERGENCY POWER | REMARKS | |
|--------------|---------------------------------|--------------|-------------|-----------------|----------|------------------------|----------|------------------------|---------|----------|-----------------|---------------|---------|------|--------------|-------------|--------------------------|------------------------|--------------------------|------------------------|-----------------|---------|---------|---------------------|-----------------|----------|-------------|-----------------|---------|-------------------------------------|
| TAG | LOCATION | MANUFACTURER | MODEL No. | FLOW RATE (L/S) | ESP (Pa) | COOLING CAPACITY (MBH) | | HEATING CAPACITY (MBH) | MCA (A) | MOCP (A) | ELEC. (V/PH/Hz) | WEIGHT (KG) | FILTER | TAG | MANUFACTURER | MODEL No. | AMBIENT TEMPERATURE (°C) | COOLING CAPACITY (MBH) | AMBIENT TEMPERATURE (°C) | HEATING CAPACITY (MBH) | ELEC. (V/PH/Hz) | MCA (A) | MOP (A) | | | | | | | WEIGHT (KG) |
| | | | | | | TOTAL | SENSIBLE | | | | | | | | | | | | | | | | | | | | | | | |
| FC-1 | OFFICE 109 | DAIKIN | FXSQ09TBVJU | 150 | 0.3 | 8.5 | 6.1 | 10.0 | 1.8 | 15 | 208/1/60 | 35.1 | MERV 13 | CU-1 | DAIKIN | REYQ96AATJA | 35 | 78.3 | -20 | 73.2 | 208/3/60 | 34.1 | 35 | 325 | BSF6Q54TVJ | 208/1/60 | 0.6 | R-410A | N | BACNET, VIBRATION ISOLATION HANGERS |
| FC-2 | FORENSIC TEACHING CLASSROOM 104 | DAIKIN | FXSQ18TBVJU | 300 | 0.3 | 15.7 | 12.0 | 19.3 | 1.9 | 15 | 208/1/60 | 35.1 | MERV 13 | | | | | | | | | | | | | | | R-410A | N | BACNET, VIBRATION ISOLATION HANGERS |
| FC-3 | FORENSIC TEACHING CLASSROOM 104 | DAIKIN | FXSQ18TBVJU | 300 | 0.3 | 15.7 | 12.0 | 19.3 | 1.9 | 15 | 208/1/60 | 35.1 | MERV 13 | | | | | | | | | | | | | | | R-410A | N | BACNET, VIBRATION ISOLATION HANGERS |
| FC-4 | FORENSIC GARAGE 105 | DAIKIN | FXSQ12TBVJU | 160 | 0.3 | 10.5 | 8.4 | 13.2 | 1.8 | 15 | 208/1/60 | 35.1 | MERV 13 | | | | | | | | | | | | | | | R-410A | N | BACNET, VIBRATION ISOLATION HANGERS |
| FC-5 | TEACHING LAB 108 | DAIKIN | FXSQ15TBVJU | 250 | 0.3 | 13.1 | 10.0 | 16.4 | 1.8 | 15 | 208/1/60 | 35.1 | MERV 13 | | | | | | | | | | | | | | | R-410A | N | BACNET, VIBRATION ISOLATION HANGERS |
| FC-6 | LOUNGE 103 | DAIKIN | FXSQ24TBVJU | 350 | 0.3 | 21.1 | 15.2 | 26.0 | 1.9 | 15 | 208/1/60 | 37.5 | MERV 13 | | | | | | | | | | | | | | | R-410A | N | BACNET, VIBRATION ISOLATION HANGERS |
| FC-7 | AV. GRAD OFFICE 110 | DAIKIN | FXSQ12TBVJU | 160 | 0.3 | 10.5 | 8.4 | 13.2 | 1.8 | 15 | 208/1/60 | 35.1 | MERV 13 | | | | | | | | | | | | | | | R-410A | N | BACNET, VIBRATION ISOLATION HANGERS |
| FC-8 | FLEX OFFICE 112 | DAIKIN | FXSQ12TBVJU | 160 | 0.3 | 10.5 | 8.4 | 13.2 | 1.8 | 15 | 208/1/60 | 35.1 | MERV 13 | | | | | | | | | | | | | | | R-410A | N | BACNET, VIBRATION ISOLATION HANGERS |
| FC-9 | MULTIPURPOSE SPACE 114 | DAIKIN | FXSQ24TBVJU | 350 | 0.3 | 21.1 | 15.2 | 26.0 | 1.9 | 15 | 208/1/60 | 37.5 | MERV 13 | | | | | | | | | | | | | | | R-410A | N | BACNET, VIBRATION ISOLATION HANGERS |
| FC-10 | DRONE RESEARCH LAB 115 | DAIKIN | FXSQ30TBVJU | 515 | 0.3 | 26.4 | 19.8 | 32.7 | 3.0 | 15 | 208/1/60 | 46.1 | MERV 13 | | | | | | | | | | | | | | | R-410A | N | BACNET, VIBRATION ISOLATION HANGERS |
| FC-11 | AV GARAGE 111 | DAIKIN | FXSQ12TBVJU | 160 | 0.3 | 10.5 | 8.4 | 13.2 | 1.8 | 15 | 208/1/60 | 35.1 | MERV 13 | | | | | | | | | | | | | | | R-410A | N | BACNET, VIBRATION ISOLATION HANGERS |
| FC-12 | FLEX GARAGE 113 | DAIKIN | FXSQ12TBVJU | 160 | 0.3 | 10.5 | 8.4 | 13.2 | 1.8 | 15 | 208/1/60 | 35.1 | MERV 13 | | | | | | | | | | | | | | | R-410A | N | BACNET, VIBRATION ISOLATION HANGERS |

NOTES: PROVIDE INDIVIDUAL POWER CONNECTIONS FOR EACH INDOOR AND OUTDOOR UNIT. APPROVED ALTERNATES: LG, MITS, YORK (JCI)

VARIABLE AIR VOLUME BOX SCHEDULE

| TAG | MANUFACTURER | MODEL No. | INLET SIZE (MM) | FLOW (L/S) | | REMARKS |
|--------|--------------|-----------|-----------------|------------|------------|----------------|
| | | | | DESIGN MIN | DESIGN MAX | |
| VAV-1 | EH PRICE | SDV-8000 | 100 | 10 | 20 | CONNECT TO BAS |
| VAV-2 | EH PRICE | SDV-8000 | 200 | 80 | 245 | CONNECT TO BAS |
| VAV-4 | EH PRICE | SDV-8000 | 100 | 10 | 30 | CONNECT TO BAS |
| VAV-5 | EH PRICE | SDV-8000 | 150 | 40 | 125 | CONNECT TO BAS |
| VAV-6 | EH PRICE | SDV-8000 | 100 | 15 | 45 | CONNECT TO BAS |
| VAV-7 | EH PRICE | SDV-8000 | 100 | 15 | 45 | CONNECT TO BAS |
| VAV-8 | EH PRICE | SDV-8000 | 100 | 15 | 45 | CONNECT TO BAS |
| VAV-9 | EH PRICE | SDV-8000 | 150 | 40 | 125 | CONNECT TO BAS |
| VAV-10 | EH PRICE | SDV-8000 | 150 | 30 | 90 | CONNECT TO BAS |
| VAV-11 | EH PRICE | SDV-8000 | 100 | 15 | 40 | CONNECT TO BAS |
| VAV-12 | EH PRICE | SDV-8000 | 100 | 15 | 40 | CONNECT TO BAS |
| VAV-13 | EH PRICE | SDV-8000 | 100 | 10 | 20 | CONNECT TO BAS |

NOTES:

DI WATER SYSTEM

DI-1
 PROVIDE MILL-DI SYSTEM, RESISTIVITY > 1 MΩ·CM @ 25°C, FLOW RATE 0.5 L/MIN TO 0.7 L/MIN. BATTERY POWERED. FOR FAUCET REFER TO ARCHITECTURAL SPECIFICATIONS
 APPROVED ALTERNATE: THERMAL SCIENTIFIC "B-PURE WATER PURIFICATION SYSTEM"

ELECTRIC HEATER SCHEDULE

| TAG | MANUFACTURER | MODEL No. | ARRANGEMENT | HEATING CAPACITY (kW) | ELEC (V/PH/Hz) | LENGTH (INCHES) | REMARKS |
|-------|--------------|-----------|--------------------|-----------------------|----------------|-----------------|---|
| CFH-1 | QUELLET | OACP2008 | CEILING FAN HEATER | 2 | 208/1/60 | - | REMOTE THERMOSTAT, CONTROL RELAY |
| BBH-1 | RUNTAL | EB3-208D | BASEBOARD HEATER | 1.5 | 208/1/60 | 36 | LINE VOLTAGE WALL THERMOSTAT, SEPARATE PRICE |
| EDH-1 | GREENHECK | IDHE | DUCT HEATER | 12 | 208/3/60 | - | SCR CONTROL, AIRFLOW SWITCH, DUCT THERMOSTAT, SIZE TO MATCH DUCT SIZE |

NOTES:

EXPANSION TANK SCHEDULE

| TAG | SERVICE | LOCATION | MANUFACTURER | MODEL No. | ACCEPTANCE VOLUME (L) | TEMPERATURE (°C) | | PRE-CHARGED PRESSURE (kPa) | FLUID | DIMENSIONS (MM) | | PRESSURE RATING (kPa) | WEIGHT (KG) | REMARKS |
|------|---------------------|--------------|--------------|-----------|-----------------------|------------------|------|----------------------------|-------|-----------------|-----|-----------------------|-------------|--------------|
| | | | | | | MIN | MAX | | | D | H | | | |
| ET-1 | DOMESTIC COLD WATER | M&E ROOM 121 | WATTS | PLT-20 | 27 | 4.44 | 26.6 | 140 | WATER | 320 | 500 | 1034 | 7 | BLADDER TANK |
| ET-2 | DOMESTIC HOT WATER | M&E ROOM 201 | WATTS | PLT-5 | 5.6 | 4.44 | 26.6 | 140 | WATER | 200 | 325 | 1034 | 3 | BLADDER TANK |

NOTES:

ELECTRIC UNIT HEATER SCHEDULE

| TAG | MANUFACTURER | MODEL No. | HEATER SPECIFICATIONS | | | | | REMARKS |
|------|--------------|------------|-----------------------|---------------|------------|-----------------|-------------|---------------------------------|
| | | | AIR FLOW (CFM) | CAPACITY (kW) | MOTOR (HP) | ELEC. (V/PH/Hz) | WEIGHT (KG) | |
| UH-1 | QUELLET | OAS10008AM | 700 | 10 | 1/30 | 208/1/60 | 20 | 24V RELAY FOR REMOTE THERMOSTAT |
| UH-2 | QUELLET | OAS05008AM | 700 | 5 | 1/30 | 208/1/60 | 20 | 24V RELAY FOR REMOTE THERMOSTAT |

NOTES:

SUPPLY FAN SCHEDULE

| TAG | FAN TYPE CLASS | MANUFACTURER | MODEL No. | AIR FLOW (L/S) | FAN SPEED (RPM) | ESP (Pa) | MOTOR SIZE (HP) | ELEC. (V/PH/Hz) | VFD/STARTER | WEIGHT (KG) | EMERGENCY OR NORMAL POWER | LOCAL OR BAS CONTROL | MAXIMUM FAN SOUND POWER LEVEL OF SPECIFIED EQUIPMENT MAX. PWL IN DB RE 10W ⁻¹² | | | | | | | | REMARKS |
|------|----------------|--------------|---------------|----------------|-----------------|----------|-----------------|-----------------|-------------|-------------|---------------------------|----------------------|---|-----|-----|-----|------|------|------|------|---|
| | | | | | | | | | | | | | ACTIVE BAND INLET SOUND POWER LABEL | | | | | | | | |
| | | | | | | | | | | | | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | |
| SF-1 | IN-LINE | PENNBARRY | SQX122-0541GP | 400 | 1684 | 100 | 0.5 | 120/1/60 | | 35 | N | | 73 | 71 | 72 | 66 | 64 | 71 | 62 | 56 | VIBRATION ISOLATION HANGERS, INTERLOCKED WITH FUME HOOD EXHAUST |

NOTES:

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MAKE-UP (VENTILATION) AIR UNIT SCHEDULE

| TAG | MANUFACTURER | MODEL No. | SUPPLY FAN | | | | | | EXHAUST FAN | | | | | | HEATING PERFORMANCE - HEAT PUMP | | | | | | COOLING PERFORMANCE - HEAT PUMP | | | | | | BACKUP HEAT (ELECTRIC) | | ELECTRICAL | | |
|-------|----------------|-----------------------------|----------------|-------------------|-------------------|------------------|----------|----------------|----------------|----------------|--|------------------|----------------|-------------|---|----------------|----------|----------|---|--------------------------------|---------------------------------|----------------|----------------|----------------|---------------------------------|----------------------------|------------------------|------|-------------------|------|------|
| | | | AIR FLOW (L/S) | ESP (Pa) | SPEED (RPM) | MOTOR POWER (HP) | BHP (HP) | VFD/STARTER | AIR FLOW (L/S) | ESP (kPa) | SPEED (RPM) | MOTOR POWER (HP) | BHP (HP) | VFD/STARTER | HEATING CAPACITY (kW) | AIR SIDE | | | TOTAL COOLING CAPACITY (kW) | SENSIBLE COOLING CAPACITY (kW) | EER | AIR SIDE | | | PRE-WHEEL HEATING CAPACITY (kW) | POST-HEATING CAPACITY (kW) | VOLTAGE | MCA | MAXIMUM FUSE SIZE | | |
| | | | | | | | | | | | | | | | | AIR FLOW (L/S) | EAT (°C) | LAT (°C) | | | | AIR FLOW (L/S) | EAT DB/WB (°C) | LAT DB/WB (°C) | | | | | | | |
| MUA-1 | ADDISON | PROH 72 B1 | 860 | 500 | 2147 | 1.5 | 1.28 | VFD | 425 | 125 | 2261 | 1 | 0.27 | VFD | 15.00 | 860 | 6.2 | 20.8 | 21.2 | 14.1 | 15.6 | 860 | 28.3/21.1 | 14.1/14.0 | 20 | 30 | 575/3/60 | 95.7 | 100 | | |
| TAG | AIR FLOW (L/S) | TOTAL ENERGY RECOVERED (kW) | | EFFECTIVENESS (%) | | EAT DB/WB (°C) | | LAT DB/WB (°C) | | AIR FLOW (L/S) | EAT DB/WB (°C) | | LAT DB/WB (°C) | | MAXIMUM FAN SOUND POWER LEVEL OF SPECIFIED EQUIPMENT MAX. PWL IN DB RE 10W ⁽⁻¹²⁾ | | | | | | | | FILTERS | WEIGHT (KG) | REFRIGERANT | EMERGENCY OR NORMAL POWER | REMARKS | | | | |
| | | SUMMER | WINTER | SUMMER SENS/TOTAL | WINTER SENS/TOTAL | SUMMER | WINTER | SUMMER | WINTER | | ACTIVE BAND SOUND POWER LABEL (SUPPLY) | | | | | | | | ACTIVE BAND SOUND POWER LABEL (EXHAUST) | | | | | | | | | | | | |
| | | | | | | | | | | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | 63 | 125 | 250 | 500 | | | | | | 1000 | 2000 | 4000 | 8000 |

NOTES:

EXHAUST FAN SCHEDULE

| TAG | FAN TYPE CLASS | MANUFACTURER | MODEL No. | AIR FLOW (L/S) | FAN SPEED (RPM) | ESP (Pa) | MOTOR SIZE (HP) | ELEC. (V/PH/Hz) | WEIGHT (KG) | EMERGENCY OR NORMAL POWER | LOCAL OR BAS CONTROL | MAXIMUM FAN SOUND POWER LEVEL OF SPECIFIED EQUIPMENT MAX. PWL IN DB RE 10W ⁽⁻¹²⁾ | | | | | | | | REMARKS |
|------|------------------------|--------------|------------------|----------------|-----------------|----------|-----------------|-----------------|-------------|---------------------------|----------------------|---|-----|-----|-----|------|------|------|------|---|
| | | | | | | | | | | | | ACTIVE BAND INLET SOUND POWER LABEL | | | | | | | | |
| | | | | | | | | | | | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | |
| EF-1 | ROOF MOUNTED | PENNBARRY | DX13R-SC | 330 | 1522 | 125 | 1/4 | 120/1/60 | 20 | N | LOCAL | 70 | 71 | 74 | 62 | 58 | 55 | 51 | 45 | ROOF CURB, GRAVITY OPERATED BACKDRAFT DAMPER, DISCONNECT SWITCH, SPEED CONTROLLER, BACNET |
| EF-2 | ROOF MOUNTED | PENNBARRY | DX13R-SC | 330 | 1522 | 125 | 1/4 | 120/1/60 | 20 | N | LOCAL | 70 | 71 | 74 | 62 | 58 | 55 | 51 | 45 | ROOF CURB, GRAVITY OPERATED BACKDRAFT DAMPER, DISCONNECT SWITCH, SPEED CONTROLLER, BACNET |
| EF-3 | ROOF MOUNTED | PENNBARRY | DX11R-SC | 165 | 1440 | 125 | 1/5 | 120/1/60 | 19 | N | LOCAL | 68 | 72 | 68 | 56 | 56 | 53 | 45 | 36 | ROOF CURB, GRAVITY OPERATED BACKDRAFT DAMPER, DISCONNECT SWITCH, SPEED CONTROLLER, BACNET |
| EF-4 | LABORATORY EXHAUST FAN | PENNBARRY | VPLUME 105-5 1X1 | 470 | 3728 | 200 | 3/4 | 575/3/60 | 220 | N | LOCAL | 89 | 87 | 85 | 85 | 82 | 77 | 77 | 76 | ROOF CURB, GRAVITY OPERATED BACKDRAFT DAMPER, DISCONNECT SWITCH, DISCHARGE NOZZLE, BACNET |
| EF-5 | ROOF MOUNTED | PENNBARRY | DX11Q-SC | 120 | 1369 | 125 | 1/5 | 120/1/60 | 19 | N | LOCAL | 68 | 74 | 63 | 56 | 54 | 52 | 46 | 38 | ROOF CURB, GRAVITY OPERATED BACKDRAFT DAMPER, DISCONNECT SWITCH, SPEED CONTROLLER, BACNET |
| EF-6 | IN-LINE CENTRIFUGAL | PENNBARRY | Z10H-INLINE-SC | 125 | 1086 | 150 | 390W | 120/1/60 | 14 | N | LOCAL | 63 | 63 | 59 | 54 | 51 | 51 | 47 | 42 | VIBRATION ISOLATION HANGERS, BACKDRAFT DAMPER |

NOTES:

DIFFUSER & GRILLE SCHEDULE

| TAG | UNIT | | | | DAMPER | | MATERIAL | FINISH | REMARKS |
|-----|--------------|-----------|----------------|------|--------------|----------------|----------|--------------|---|
| | MANUFACTURER | MODEL No. | APPLICATION | DUTY | PART OF UNIT | REMOTE IN DUCT | | | |
| A | EH PRICE | 520D | SUPPLY | - | Y | N | STEEL | BY ARCHITECT | DOUBLE DEFLECTION |
| B | E.H. PRICE | SDS100 | SUPPLY | - | Y | N | ALUMINUM | BY ARCHITECT | C/W SDB PLENUM, CABLE OPERATED FACE DAMPER, 1200MM LONG, DOUBLE SLOT, 25mm SLOT, REFER TO DRAWING FOR NECK SIZE |
| C | EH PRICE | 80 SERIES | RETURN/EXHAUST | - | Y | N | ALUMINUM | BY ARCHITECT | |
| D | E.H. PRICE | 530 | RETURN | - | - | - | ALUMINUM | BY ARCHITECT | DOUBLE DEFLECTION |

NOTES:

DOMESTIC WATER HEATER SCHEDULE

| TAG | SERVICE | MANUFACTURER | MODEL NO. | CAPACITY (L) | RECOVERY RATE @ 100°F RISE (L/HR) | HEATER ELEMENT (kW) | ELEC. (V/PH/Hz) | WEIGHT (DRY) (KG) | REMARKS |
|--------|--------------------|--------------|-----------|--------------|-----------------------------------|---------------------|-----------------|-------------------|----------------------------------|
| DHWH-1 | DOMESTIC HOT WATER | A.O. SMITH | DVE52-12 | 189 | 189 | 12.3 | 208/3/60 | 120 | MANIFOLD KIT, BMS GATEWAY MODULE |
| DHWH-2 | DOMESTIC HOT WATER | A.O. SMITH | DVE52-12 | 189 | 189 | 12.3 | 208/3/60 | 120 | MANIFOLD KIT, BMS GATEWAY MODULE |

NOTES:

PUMP SCHEDULE

| TAG | SERVICE | LOCATION | MANUFACTURER | MODEL No. | PUMP SPECIFICATIONS | | | | ELEC. (V/PH/Hz) | EMERGENCY POWER | PRESSURE RATING (kPa) | FLUID | WEIGHT (KG) | REMARKS |
|------|---------------------------------------|--------------|--------------|--------------|---------------------|------------|-------------|------------------|-----------------|-----------------|-----------------------|-------------|-------------|--|
| | | | | | FLOW (L/S) | HEAD (kPa) | SPEED (RPM) | MOTOR POWER (HP) | | | | | | |
| P-1 | DOMESTIC HOT WATER RECIRCULATION PUMP | M&E ROOM 201 | WLO | STAR S 33 ZF | 0.1 | 90 | 1700 | 1/4 | 120/1/60 | N | 965 | WATER | - | |
| SP-1 | WEEPING TILE SUMP PIT | M&E ROOM 121 | SULZER | EF 100-2 | 3.15 | 135 | 1750 | 2 | 575/3/60 | N | - | GROUNDWATER | 26 | DUPLEX SUMP PUMP SYSTEM COMPLETE WITH CONTROLS, FLOATS, CONNECT TO BAS, PIT SHALL BE 1200x1200x3500 DEEP |

NOTES:

SPLIT TYPE AC/HEAT PUMP UNIT SCHEDULE

| INDOOR UNITS | | | | | | | | | | | | | OUTDOOR UNITS | | | | | | | | | | REFRIGERANT | EMERGENCY POWER | REMARKS | |
|--------------|--------------|--------------|--------------|-------------|-------------------------------|----------|-----------------------|------|-----------------------|------------------|-----------------|-------------|---------------|--------------|------------|--------------------------|-----------------------|-----------------|------|------|---------|---------|-------------|-----------------|---------|--|
| TAG | SERVICE | LOCATION | MANUFACTURER | MODEL No. | FLOW RATE - MEDIUM FLOW (L/S) | ESP (Pa) | COOLING CAPACITY (kW) | | HEATING CAPACITY (kW) | MOTOR POWER (kW) | ELEC. (V/PH/Hz) | WEIGHT (KG) | TAG | MANUFACTURER | MODEL No. | AMBIENT TEMPERATURE (°C) | HEAT REJECTION (kW/h) | ELEC. (V/PH/Hz) | SEER | EER | MCA (A) | MOP (A) | | | | WEIGHT (KG) |
| AC-1 | 120 LAN ROOM | 120 LAN ROOM | DAIKIN | FTKF24AXJU | 285 | - | 6.56 | 4.80 | - | - | 208/1/60 | 14 | CU-3 | DAIKIN | RKF24AXJU | 35 | 6.56 | 208/1/60 | 21 | 12 | 14.23 | 20 | 46 | R32 | N | BACNET ADAPTER, LOW AMBIENT COOLING, MAXIMUM REFRIGERANT LENGTH 99 FT, WIND BAFFLE |
| AC-2 | 107 LAB | 107 LAB | DAIKIN | FTXM12WVJU9 | 185 | - | 3.51 | - | 3.98 | - | 208/1/60 | 13 | CU-4 | DAIKIN | RXM12WVJU9 | 35 | 3.51 | 208/1/60 | 25.2 | 13.2 | 12.3 | - | 44 | R32 | N | BACNET ADAPTER, LOW AMBIENT COOLING, MAXIMUM REFRIGERANT LENGTH 82 FT, WIND BAFFLE, MINI UNIVOLT CONDENSATE PUMP KIT |

NOTES: PROVIDE INDIVIDUAL POWER CONNECTIONS TO EACH INDOOR AND OUTDOOR UNIT.

| No. | ISSUANCE | DATE |
|-----|-------------------------------|------------|
| 1 | ISSUED FOR DESIGN DEVELOPMENT | 01/03/2024 |
| 2 | ISSUED FOR PERMIT | 13/09/2024 |
| 3 | ISSUED FOR TENDER | 26/11/2024 |

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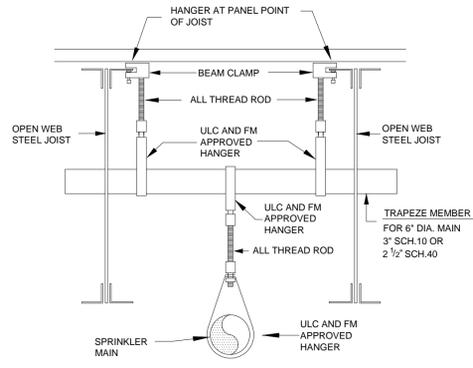
PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

TITLE
MECHANICAL SCHEDULES

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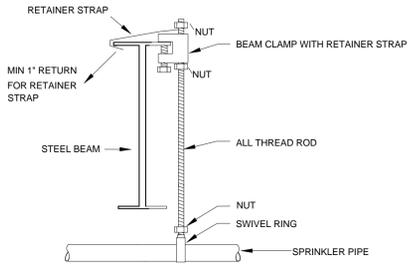
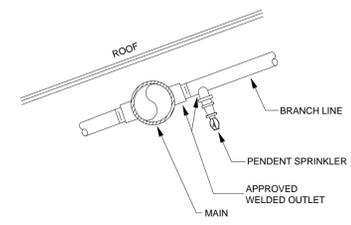


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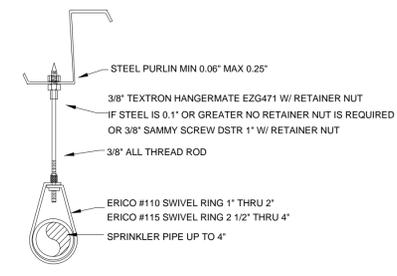


ALL 6\"/>

- MINIMUM TRAPEZE MEMBER SIZE SHALL BE ONE OF THE BELOW LISTED:
- 3\"/>



CLAMP & THREAD ROD SIZES:
 - 1\"/>

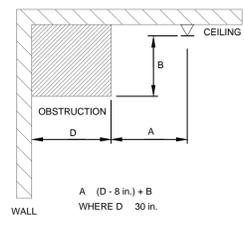
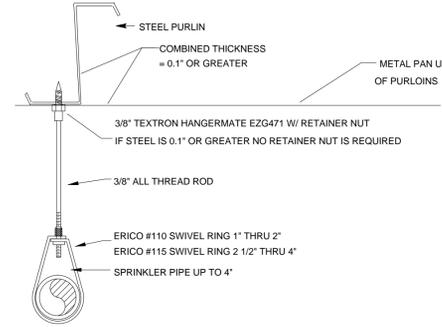


7 MAIN TRAPEZE HANGER DETAIL (PIPE PARALLEL TO JOISTS)
 FP 2.2 SCALE: N.T.S. (AS PER NFPA13)

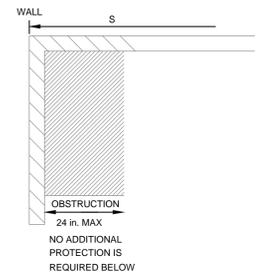
8 LINE RISER DETAILS
 FP 2.2 SCALE: N.T.S.

9 BEAM CLAMP HANGER
 FP 2.2 SCALE: N.T.S.

10 TYPICAL PIPE HANGER DETAILS-1
 FP 2.2 SCALE: N.T.S.



STANDARD SPRAY UPRIGHT & PENDENT SPRINKLER OBSTRUCTIONS
 PER FIGURE 6.6.5.1.2(b) & FIGURE 6.6.5.1.2(c) OF NFPA 13, 2013 EDITION



| DISTANCE FROM SPRINKLER TO SIDE OF CEILING OBSTRUCTION (DIMENSION A) | MAX DISTANCE OF DEFLECTOR ABOVE OBSTRUCTION (DIMENSION B) |
|--|---|
| LESS THAN 1'-0" | 0" |
| 1'-0" TO LESS THAN 1'-6" | 2 1/2" |
| 1'-6" TO LESS THAN 2'-0" | 3 1/2" |
| 2'-0" TO LESS THAN 2'-6" | 5 1/2" |
| 2'-6" TO LESS THAN 3'-0" | 7 1/2" |
| 3'-0" TO LESS THAN 3'-6" | 9 1/2" |

| (DIMENSION A) | (DIMENSION B) |
|--------------------------|---------------|
| 3'-6" TO LESS THAN 4'-0" | 12" |
| 4'-0" TO LESS THAN 4'-6" | 14" |
| 4'-6" TO LESS THAN 5'-0" | 16" |
| 5'-0" TO LESS THAN 5'-6" | 18" |
| 5'-6" TO LESS THAN 6'-0" | 20" |
| 6'-0" TO LESS THAN 6'-6" | 24" |
| 6'-6" TO LESS THAN 7'-0" | 30" |
| 7'-0" TO LESS THAN 7'-6" | 35" |

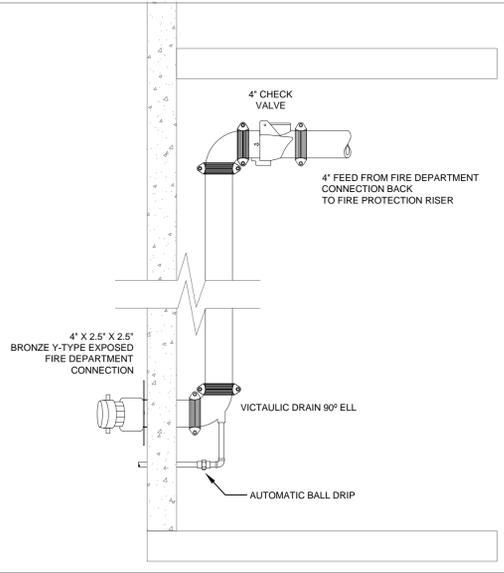
STANDARD SPRAY UPRIGHT & PENDENT SPRINKLER OBSTRUCTIONS
 PER TABLE 6.6.5.1.2 & FIGURE 6.6.5.1.2(a) OF NFPA 13, 2013 EDITION

11 TYPICAL PIPE HANGER DETAILS-2
 FP 2.2 SCALE: N.T.S.

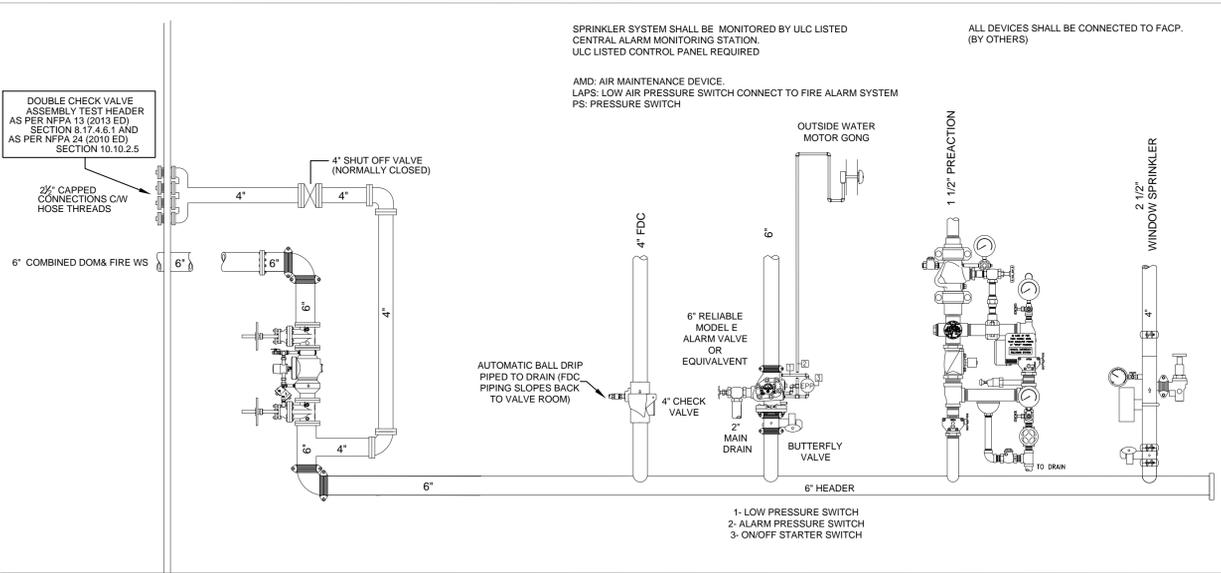
12 TYPICAL PIPE HANGER DETAILS-3
 FP 2.2 SCALE: N.T.S.

13 OBSTRUCTIONS AGAINST WALL
 FP 2.2 SCALE: N.T.S. (AS PER NFPA13)

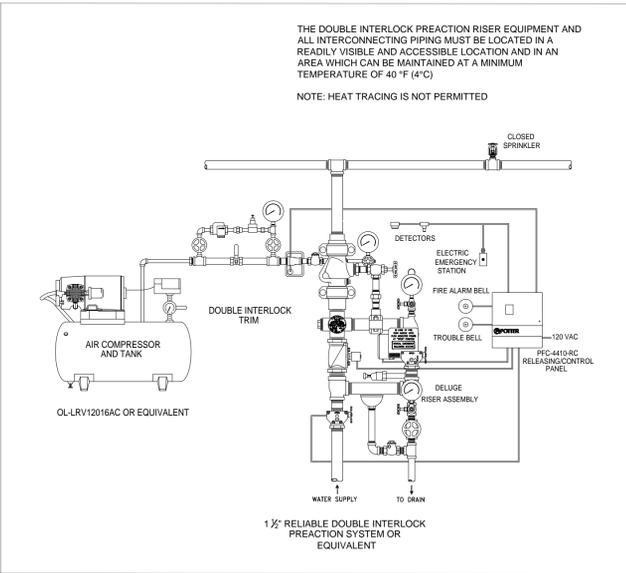
14 POSITIONING OF SPRINKLERS TO AVOID OBSTRUCTIONS TO DISCHARGE
 FP 2.2 SCALE: N.T.S.



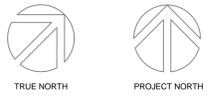
15 FIRE DEPARTMENT CONNECTION
 FP 2.2 SCALE: N.T.S.



16 SPRINKLER HEADERS
 FP 2.2 SCALE: N.T.S.



17 DOUBLE INTERLOCK PRACTION SYSTEM
 FP 2.2 SCALE: N.T.S.



| No. | ISSUANCE | DATE |
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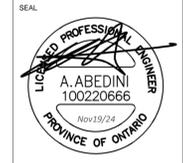


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PROJECT
 PRE-ENGINEERED BUILDING
 3265 PRINCIPAL'S ROAD MISSISSAUGA

TITLE
 NFPA FIGURES AND GENERAL NOTES

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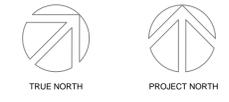
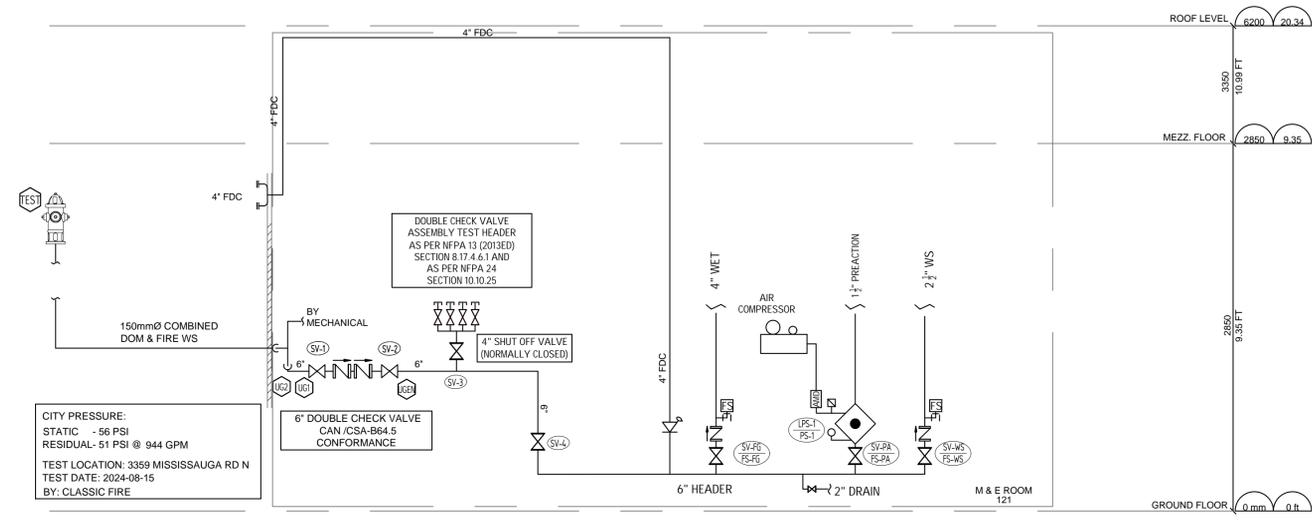
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| N.T.S. | AUG 2024 | 2023-0059 | SK | AA |

FP 2.2

| FIRE PROTECTION SYSTEM SUPERVISED VALVE SCHEDULE | | |
|--|---|----------|
| VALVE NUMBER | DESCRIPTION | LOCATION |
| SV-1 | DOUBLE CHECK VALVE ASSEMBLY IN | M&E ROOM |
| SV-2 | DOUBLE CHECK VALVE ASSEMBLY OUT | M&E ROOM |
| SV-3 | SHUT - OFF VALVE DCVA TEST | M&E ROOM |
| SV-4 | MAIN SHUT - OFF SPRINKLER HEADER | M&E ROOM |
| SV-FG | WET SPR. SYSTEM ISOLATION (GROUND & MEZZ FLOOR) | M&E ROOM |
| SV-PA | PREACTION SPR. SYSTEM ISOLATION (GROUND FLOOR) | M&E ROOM |
| SV-WS | WINDOW SPR. SYSTEM ISOLATION (GROUND FLOOR) | M&E ROOM |
| LPS-1 | LOW AIR PRESSURE GROUND LEVEL (PREACTION) | M&E ROOM |

| FIRE PROTECTION SYSTEM FLOW SWITCH SCHEDULE | | |
|---|---|----------|
| VALVE NUMBER | DESCRIPTION | LOCATION |
| FS-FG | WET SPR. SYSTEM FLOW SWITCH (GROUND & MEZZ FLOOR) | M&E ROOM |
| FS-PA | PREACTION SPR. SYSTEM FLOW SWITCH | M&E ROOM |
| FS-WS | WINDOW SPR. SYSTEM FLOW SWITCH | M&E ROOM |
| PS-1 | WATER FLOW PS GROUND LEVEL (PREACTION) | M&E ROOM |



| No. | ISSUANCE | DATE |
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| 3 | RE-ISSUED FOR TENDER | 2024-11-19 |

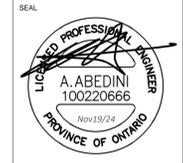
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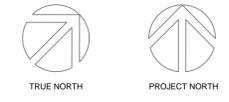
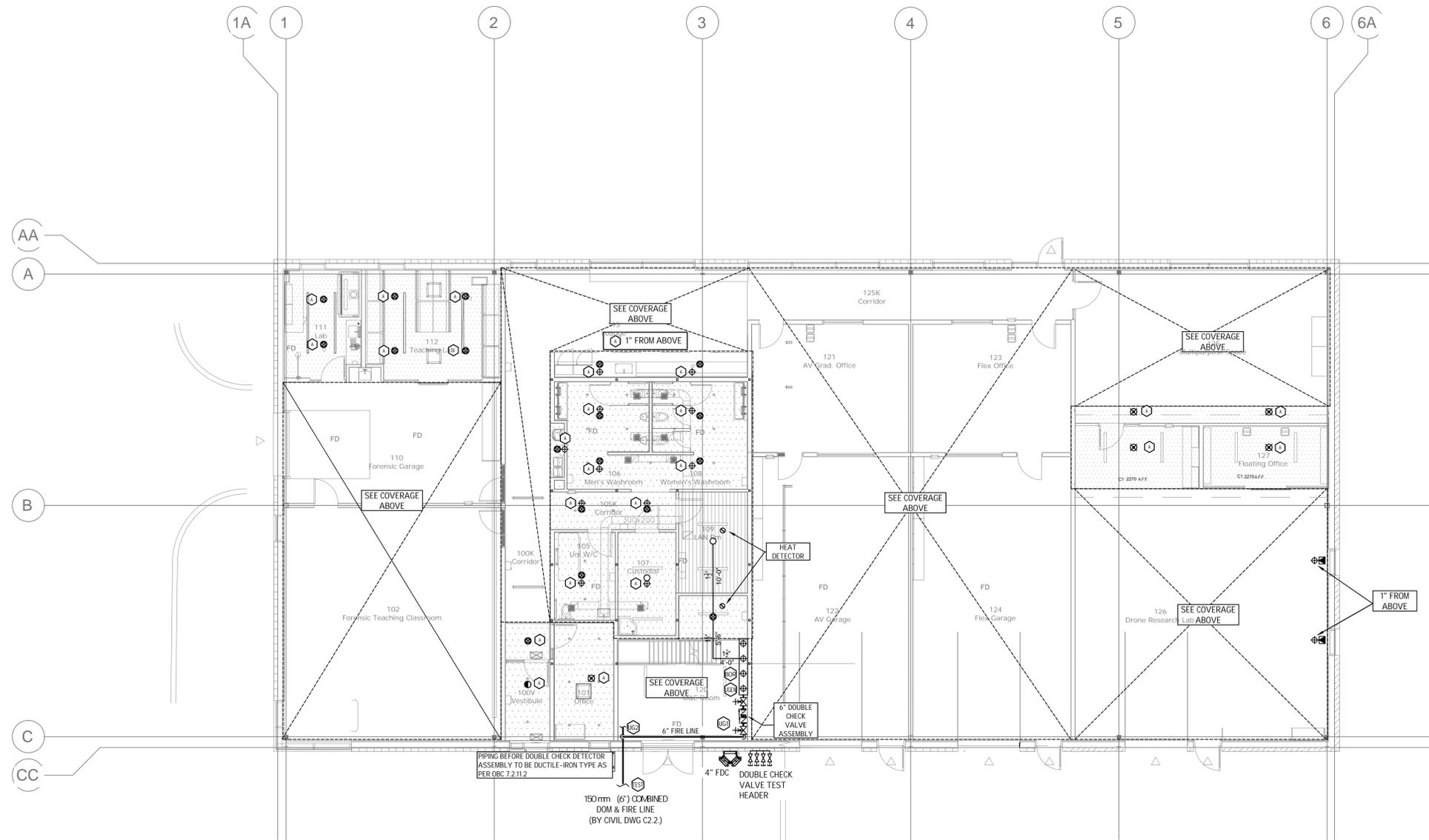
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 3265 PRINCIPAL'S ROAD MISSISSAUGA

TITLE
 RISER SCHEMATIC & SUPERVISED SCHEDULE



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| DATE: AUG 2024 | |
| PROJECT NO: 2023-0059 | |
| DRAWN BY: SK | |
| CHECKED BY: AA | |



| No. | ISSUANCE | DATE |
|-----|----------------------|------------|
| 1 | ISSUED FOR REVIEW | 2024-09-03 |
| 2 | ISSUED FOR PERMIT | 2024-09-06 |
| 3 | ISSUED FOR TENDER | 2024-11-15 |
| 4 | RE-ISSUED FOR TENDER | 2024-11-19 |

SPRINKLER HEAD COUNT & LEGEND

| SYMBOL | DESCRIPTION | QTY. |
|--------|---------------------------------------|------|
| ○ | PENDENT S/C | 2 |
| ⊗ | CONCEALED PENDENT E/C | 5 |
| ⊗ | CONCEALED PENDENT S/C(VKS.4) | 18 |
| ● | DRY CONCEALED PENDENT S/C | 1 |
| ⊕ | WINDOW SPRINKLERS HORIZONTAL SIDEWALL | 2 |

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PROJECT
PRE-ENGINEERED BUILDING
3265 PRINCIPAL'S ROAD MISSISSAUGA

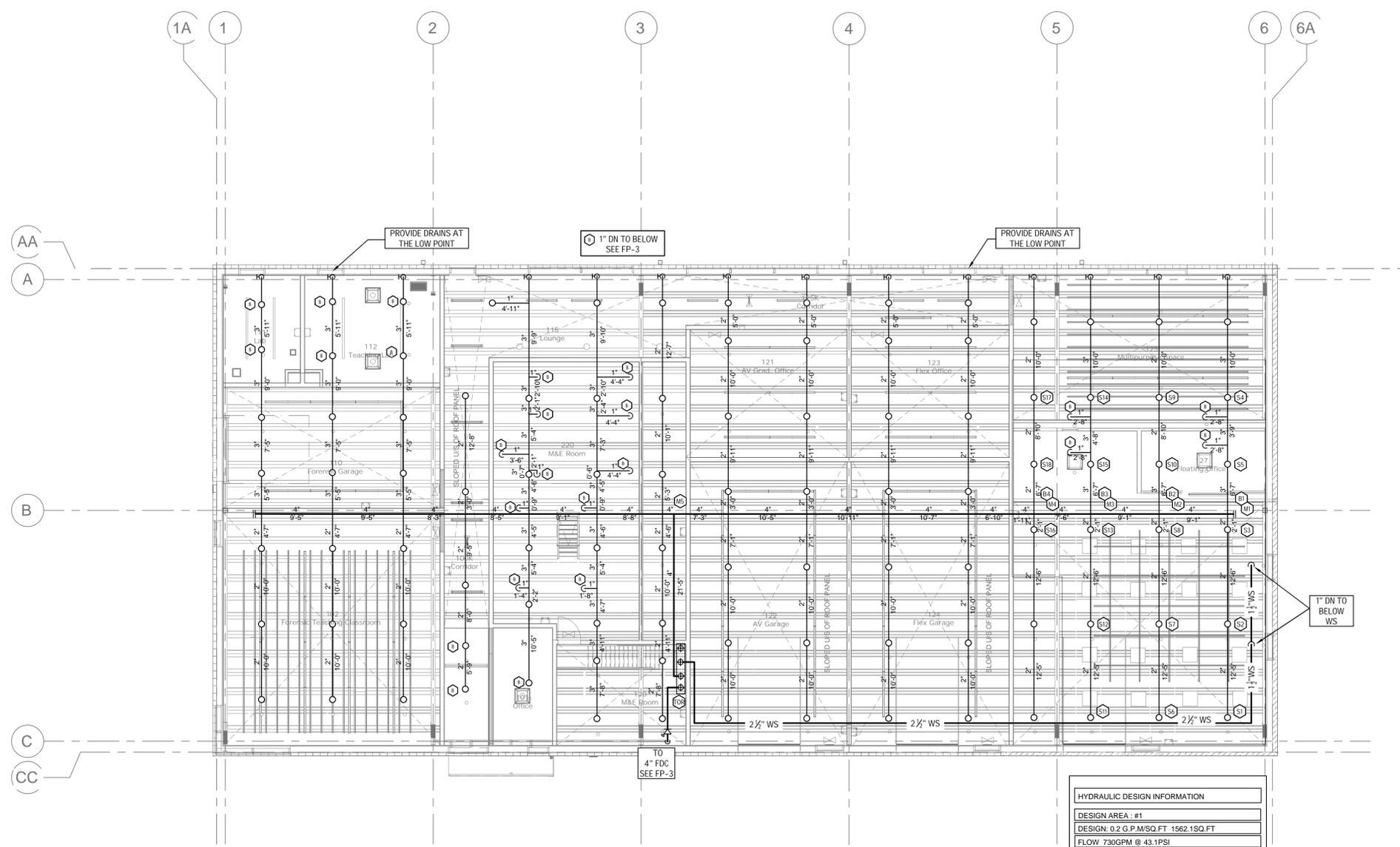
TITLE
PROPOSED SPRINKLER LAYOUT
- GROUND FLOOR

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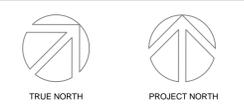


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| DATE : AUG 2024 | FP 3 |
| PROJECT NO : 2023-0059 | |
| DRAWN BY : SK | |
| CHECKED BY : AA | |



| HYDRAULIC DESIGN INFORMATION | |
|---|--|
| DESIGN AREA : #1 | |
| DESIGN : 0.2 G.P./MSQ.FT 1562.1SQ.FT | |
| FLOW 730GPM @ 43.1PSI | |
| INCLUDES OUTSIDE 250 GPM HOSE ALLOWANCE | |
| 18 SPRINKLERS FLOWING | |



| No. | ISSUANCE | DATE |
|-----|----------------------|------------|
| 1 | ISSUED FOR REVIEW | 2024-09-03 |
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| 3 | ISSUED FOR TENDER | 2024-11-15 |
| 4 | RE-ISSUED FOR TENDER | 2024-11-19 |

SPRINKLER HEAD COUNT & LEGEND

| SYMBOL | THREAD SIZE | K-FACTOR | TEMP. RATING | STYLE(MODEL) | RESPONSE | |
|--------|-------------|----------|--------------|---------------------------------------|----------|-----|
| | | | | | Q/R | QTY |
| ○ | 1/2" | 5.6 | 155°F | PENDENT S/C | O/R | 98 |
| ⊗ | 1/2" | 11.2 | 165°F | CONCEALED PENDENT S/C | O/R | - |
| ⊙ | 1/2" | 5.6 | 155°F | CONCEALED PENDENT S/CS(VKS.6) | O/R | - |
| ● | 1" | 5.6 | 155°F | DRY CONCEALED PENDENT S/C | O/R | - |
| ▽ | 1/2" | 5.6 | 155°F | WINDOW SPRINKLERS HORIZONTAL SIDEWALL | F/R | - |

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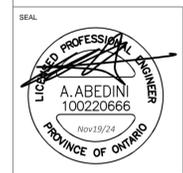


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TITLE
PROPOSED SPRINKLER LAYOUT - MEZZ FLOOR

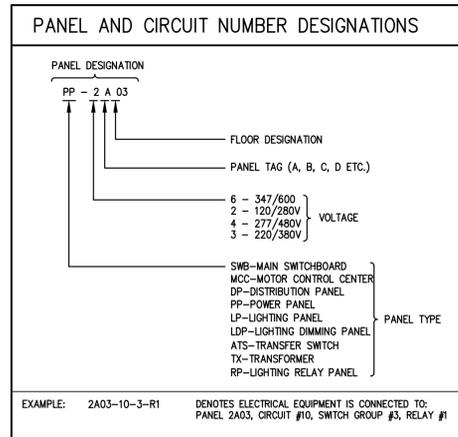
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| DATE : AUG 2024 | FP 4 |
| PROJECT NO : 2023-0059 | |
| DRAWN BY : SK | |
| CHECKED BY : AA | |

| LIGHTING LEGEND | |
|-----------------------------------|--|
| | 2' x 2' LED/FLUORESCENT LUMINAIRE – RECESSED, CEILING, SURFACE, OR SUSPENDED (NEW OR EXISTING IN RELOCATED POSITION) |
| | 1' x 4' |
| | 2' x 4' |
| | EXISTING BASE BUILDING FLUORESCENT LUMINAIRE TO REMAIN |
| | EXISTING BASE BUILDING FLUORESCENT LUMINAIRE TO BE REMOVED |
| | LED/FLUORESCENT LUMINAIRE – WALL MOUNTED |
| | LUMINAIRE – RECESSED FOR CEILING MOUNTED DOWNLIGHT |
| | SINGLE HEAD |
| | DOUBLE HEAD |
| | TRIPLE HEAD |
| | LUMINAIRE – WALL MOUNTED |
| | LUMINAIRE – WALL WASHER/ ADJUSTABLE LUMINAIRE |
| | LUMINAIRE – STEP LIGHT |
| | LUMINAIRE – SUSPENDED / PENDANTS |
| | POLE MOUNTED LUMINAIRE |
| | ILLUMINATED BOLLARD |
| | LINEAR TRACK c/w TRACK HEADS. QUANTITY OF TRACK HEADS AS PER LUMINAIRE SCHEDULE. |
| | DENOTES LUMINAIRE ON EMERGENCY POWER |
| | LUMINAIRE USED AS NIGHT LIGHT |
| | COVE, UNDERCABINET, AND/OR INTEGRATED LINEAR LIGHTING STRIP. LENGTH TO BE FIELD MEASURED. |
| BATTERY POWER EMERGENCY LIGHTING: | |
| | WALL MOUNTED EMERGENCY REMOTE LIGHTING HEAD. QUANTITY OF HEADS AS INDICATED. |
| | CEILING MOUNTED EMERGENCY REMOTE LIGHTING HEAD. QUANTITY OF HEADS AS INDICATED. |
| | EMERGENCY LIGHTING BATTERY UNIT c/w REMOTE LIGHTING HEADS AS INDICATED. |
| | TAG # INDICATES CIRCUITING FOR REMOTE HEADS. |
| EXIT SIGNS: | |
| | CEILING MOUNTED EXIT SIGN. MOUNTING AS INDICATED. DIRECTION AS INDICATED. |
| | END MOUNTED EXIT SIGN. MOUNTING AS INDICATED. DIRECTION AS INDICATED. |
| | WALL MOUNTED EXIT SIGN. MOUNTING AS INDICATED. DIRECTION AS INDICATED. |
| | TAG # DENOTES EXIT SIGN TYPE WHERE MULTIPLE TYPES ARE USED. REFER TO LUMINAIRE SCHEDULE. |
| SWITCHES AND SENSORS: | |
| | DENOTES SWITCH. TAG # INDICATES SWITCH TYPE/ACCESSORIES. |
| | '3' – 3-WAY SWITCH |
| | '4' – 4-WAY SWITCH |
| | 'K' – KEY SWITCH |
| | 'LV' – LOW VOLTAGE SWITCH |
| | 'M' – MASTER SWITCH |
| | DENOTES DIMMER SWITCH. TAG # INDICATES SWITCH TYPE/ACCESSORIES. |
| | '3' – 3-WAY DIMMER SWITCH |
| | '4' – 4-WAY DIMMER SWITCH |
| | 'LV' – LOW VOLTAGE DIMMER SWITCH |
| | DENOTES SWITCHES GANGED UNDER COMMON COVERPLATE (2, 3 & 4 SHOWN) |
| | VARIABLE SPEED SWITCH |
| | CEILING or WALL MOUNTED OCCUPANCY SENSOR. |
| | # DENOTES OCCUPANCY SENSOR TYPE. REFER TO OCCUPANCY SENSOR SCHEDULE |
| | PHOTOCELL |
| | TIME SWITCH |



| ELECTRICAL LEGEND | |
|---|---|
| | 120V, SINGLE PHASE DIRECT CONNECTION |
| | 208V, SINGLE PHASE DIRECT CONNECTION |
| | 208V, THREE PHASE DIRECT CONNECTION |
| | 600V, SINGLE PHASE DIRECT CONNECTION |
| | 600V, THREE PHASE DIRECT CONNECTION |
| | DISCONNECT SWITCH – NON-FUSED |
| | DISCONNECT SWITCH – FUSED |
| | DISTRIBUTION BOX. 'JB' DENOTES JUNCTION BOX OR PULL BOX. 'LB' DENOTES LIGHTING JUNCTION BOX. 'PB' DENOTES POWER DISTRIBUTION BOX. |
| | ELECTRICAL PANELBOARD – SURFACE MOUNTED |
| | ELECTRICAL PANELBOARD – RECESSED |
| | UTILITY PANELBOARD (IE: FIRE, COMMS etc.) – SURFACE MOUNTED |
| | UTILITY PANELBOARD (IE: FIRE, COMMS etc.) – RECESSED |
| | COMBINATION MOTOR STARTER |
| | LOOSE MOTOR STARTER |
| | CONTACTOR |
| | TRANSFORMER – FLOOR MOUNTED. SIZE AND TYPE AS INDICATED. |
| | TRANSFORMER – SUSPENDED. SIZE AND TYPE AS INDICATED. |
| | DUPLEX RECEPTACLE – 5-15R |
| | DUPLEX RECEPTACLE – CEILING MOUNTED. 5-15R UNLESS NOTED OTHERWISE. |
| | DUPLEX RECEPTACLE – FLOOR MOUNTED. 5-15R UNLESS NOTED OTHERWISE. |
| | DUPLEX RECEPTACLE – 5-20R |
| | SPLIT RECEPTACLE – 5-15R |
| | SPLIT RECEPTACLE – 5-20R |
| | GROUND FAULT INTERRUPTER (GFI) RECEPTACLE 5-20R, 5mA UNLESS NOTED OTHERWISE. |
| | DUPLEX RECEPTACLE – 5-15R. ONE HALF CONTROLLED BY WALL SWITCH |
| | SPECIAL RECEPTACLE – # INDICATES TYPE |
| | SINGLE SPECIALTY TWISTLOCK RECEPTACLE – # INDICATES TYPE |
| | STOVE RECEPTACLE – 14-50R, 125/250V, 50A |
| | DRYER RECEPTACLE – 14-30R, 125/250V, 30A |
| | QUAD RECEPTACLE |
| | QUAD RECEPTACLE – FLOOR MOUNTED |
| | DUPLEX RECEPTACLE WITH USB OR HDMI |
| | EMERGENCY POWER OFF BUTTON – RED MUSHROOM PUSH BUTTON TO DE-ENERGIZE CORRESPONDING CONTACTORS WHEN PUSHED. MUST TURN AND PULL BUTTON TO RESET. PROVIDE RED LAMPOOD INDICATING 'EMERGENCY POWER OFF' EPO BUTTONS TO BE ENCLOSED IN A CLEAR LIFT COVER. |
| | SURFACE RACEWAY |
| | SERVICE POLE |
| | FEED FOR POWER TO SYSTEM FURNITURE – WALL |
| | FEED FOR POWER TO SYSTEM FURNITURE – FLOOR |
| | ELECTRIC BASEBOARD HEATER, SIZE AS SHOWN (208V/1PH) ALL BASEBOARDS COMPLETE WITH BUILT-IN THERMOSTAT |
| | ELECTRIC PIPE TRACE HEATING CABLE – SIZE AS NOTED REFER TO PIPE TRACE SCHEDULE |
| | DRYER CURRENT SENSOR |
| LIGHTNING PROTECTION/GROUNDING DEVICES: | |
| | CONNECTION POINT |
| | DOWNLEAD |
| | LIGHTNING TERMINAL |
| | GROUNDING ROD |

| MISCELLANEOUS LEGEND | |
|----------------------|---|
| | DENOTES ARC FAULT INTERRUPTER |
| | DENOTES ABOVE FINISHED FLOOR |
| | DENOTES AUDIO/VISUAL DEVICE |
| | DENOTES DEVICES MOUNTED 12" ABOVE FINISHED COUNTER HEIGHT UNLESS SPECIFICALLY NOTED OTHERWISE |
| | DENOTES CHILD PROOF |
| | DENOTES EXISTING DEVICE TO REMAIN |
| | DENOTES EXPLOSION PROOF |
| | DENOTES GROUND FAULT INTERRUPTER |
| | DENOTES HOUSE KEEPING |
| | DENOTES HOSPITAL GRADE |
| | DENOTES ISOLATED GROUND |
| | DENOTES KEY OPERATED |
| | DENOTES MICROWAVE |
| | DENOTES NIGHT LIGHT |
| | DENOTES OVERHEAD |
| | DENOTES EXISTING TO BE REMOVED AND HANDED OVER TO OWNER |
| | DENOTES EXISTING TO BE RELOCATED |
| | DENOTES EXISTING SHOWN IN RELOCATED POSITION |
| | DENOTES REFRIGERATOR |
| | DENOTES RETURN AIR |
| | DENOTES SUPPLY AIR |
| | DENOTES TWIST LOCK |
| | DENOTES TAMPER RESISTANT |
| | DENOTES UNDERGROUND |
| | DENOTES UNDERSIDE |
| | DENOTES WIRE GUARD |
| | DENOTES WEATHER PROOF |
| | DENOTES WATER TIGHT |
| | DENOTES 'REFER TO DRAWING NOTE' NUMBER |
| | HIDDEN LINE DENOTES EXISTING DEVICE(S) TO REMAIN, UNLESS SPECIFICALLY NOTED OTHERWISE |
| | SOLID LINE DENOTES NEW DEVICE(S) TO BE PROVIDED UNDER THIS CONTRACT |
| | DENOTES EXISTING DEVICE(S) TO BE 'REMOVED' |
| | DENOTES MATCHLINE |
| | DENOTES CROSS SECTION DETAIL CALL OUT |
| | DENOTES DETAIL CALL OUT |
| | DENOTES MECHANICAL EQUIPMENT TAG |
| | DENOTES PANEL FEED |

| FIRE ALARM LEGEND | |
|-------------------|--|
| | FIRE ALARM SYSTEM MANUAL PULL STATION |
| | FIRE FIGHTER'S HANDSET |
| | FIRE ALARM STROBE LIGHT – CEILING, WALL MOUNTED |
| | FIRE ALARM BELL – WALL MOUNTED |
| | FIRE ALARM HORN SPEAKER – CEILING, WALL MOUNTED |
| | FIRE ALARM HORN SPEAKER/STROBE – CEILING, WALL MOUNTED |
| | IGNITION SMOKE DETECTOR – CEILING, WALL MOUNTED SB-DENOTES C/W SOUNDER BASE, RB-DENOTES C/W RELAY BASE |
| | DUCT TYPE SMOKE DETECTOR w/REMOTE INDICATION |
| | PHOTOELECTRIC BEAM TYPE SMOKE DETECTOR |
| | HEAT DETECTOR – 130° FIXED TEMPERATURE TYPE – CEILING, WALL MOUNTED |
| | HEAT DETECTOR – COMBINATION FIXED 135F & RATE OF RISE CEILING, WALL MOUNTED |
| | HEAT DETECTOR – RATE OF RISE – CEILING, WALL MOUNTED |
| | SMOKE ALARM C/W INTEGRAL STROBE LIGHT (RESIDENTIAL) – CEILING, WALL MOUNTED |
| | COMBINATION SMOKE ALARM/CARBON MONOXIDE (CO) DETECTOR |
| | CARBON MONOXIDE DETECTOR (CO) – CEILING, WALL MOUNTED |
| | REMOTE PILOT LIGHT FOR SMOKE DETECTOR – CEILING, WALL MOUNTED |
| | FIRE ALARM CONNECTION TO FLOW SWITCH |
| | FIRE ALARM CONNECTION TO SUPERVISED VALVE |
| | FIRE ALARM CONNECTION TO PRESSURE SWITCH |
| | FIRE ALARM CONNECTION TO WET ALARM VALVE |
| | FIRE ALARM CONNECTION TO DRY ALARM VALVE |
| | FIRE ALARM CONNECTION TO ITEMS AS INDICATED |
| | 'FIRE DO NOT ENTER' SIGN |
| | FIRE ALARM – ADDRESSABLE INPUT MODULE |
| | FIRE ALARM – ADDRESSABLE OUTPUT MODULE |
| | FIRE ALARM LINE ISOLATION MODULE |
| | FIRE ALARM END OF LINE RESISTOR |
| | FIRE ALARM CONNECTION TO SMOKE DAMPER |

| SYSTEMS LEGEND | |
|---------------------------------------|--|
| DATA OUTLETS: | |
| | WALL MOUNTED COMPLETE WITH BACKBOX, PULL CORD AND 27mm CONDUIT BACK TO THE NEAREST COMMUNICATIONS ROOM, CLOSET, OR LOCAL CABLE TRAY, UNLESS SPECIFICALLY NOTED OTHERWISE |
| | FLOOR MOUNTED |
| | CEILING MOUNTED # DENOTES NUMBER OF OUTLETS |
| VOICE (TELEPHONE) OUTLETS: | |
| | WALL MOUNTED COMPLETE WITH BACKBOX, PULL CORD AND 27mm CONDUIT BACK TO THE NEAREST COMMUNICATIONS ROOM, CLOSET, OR LOCAL CABLE TRAY, UNLESS SPECIFICALLY NOTED OTHERWISE |
| | FLOOR MOUNTED |
| | CEILING MOUNTED # DENOTES NUMBER OF OUTLETS |
| COMBINATION DATA/VOICE OUTLETS: | |
| | WALL MOUNTED COMPLETE WITH BACKBOX, PULL CORD AND 27mm CONDUIT BACK TO THE NEAREST COMMUNICATIONS ROOM, CLOSET, OR LOCAL CABLE TRAY, UNLESS SPECIFICALLY NOTED OTHERWISE |
| | FLOOR MOUNTED |
| | CEILING MOUNTED # DENOTES NUMBER OF OUTLETS |
| TV OUTLETS: | |
| | WALL MOUNTED COMPLETE WITH BACKBOX, PULL CORD AND 27mm CONDUIT BACK TO THE NEAREST COMMUNICATIONS ROOM, CLOSET, OR LOCAL CABLE TRAY, UNLESS SPECIFICALLY NOTED OTHERWISE |
| | CEILING MOUNTED |
| AUDIO/VISUAL LOCATION: | |
| | WALL MOUNTED AUDIO/VISUAL |
| | CEILING MOUNTED |
| WIRELESS ACCESS POINT (WAP) LOCATION: | |
| | WALL MOUNTED WIRELESS ACCESS POINT (WIFI) |
| | CEILING MOUNTED |
| PUBLIC ADDRESS SYSTEM LOCATION: | |
| | WALL MOUNTED DENOTES LOCATION OF PUBLIC ADDRESS SYSTEM SPEAKER. |
| | CEILING MOUNTED |
| SECURITY AND ACCESS DEVICES: | |
| | WALL or CEILING MOUNTED CLOSED CIRCUIT TELEVISION (SECURITY CAMERA) |
| | WALL MOUNTED MOTION DETECTOR – SECURITY |
| | CEILING MOUNTED |
| | WALL MOUNTED GLASS BREAK SENSING DEVICE |
| | CEILING MOUNTED |
| | CARD READER |
| | DOOR CONTACT |
| | ELECTRIC STRIKE |
| | ELECTRIC LATCH |
| | ELECTRO-MAGNETIC LOCKING DEVICE. (MAG LOCK) |
| | REQUEST TO EXIT DEVICE |
| | SECURITY KEY PAD |
| | DOOR BELL |
| | DOOR BUZZER |
| | DOOR CHIME |
| BARRIER-FREE WASHROOM DEVICES: | |
| | DOOR OPERATOR |
| | BARRIER-FREE DOOR OPERATOR ACTUATOR BUTTON |
| | DURESS ALARM BUTTON |
| | INTERCOM DEVICE |
| | SYSTEM PUSH BUTTON LOCATION |
| | EMERGENCY ASSISTANCE – AUDIBLE & VISUAL SIGNAL |
| | PUSH-TO-LOCK DOOR DEVICE |
| MISCELLANEOUS DEVICES: | |
| | MUSIC SPEAKER – CEILING, WALL MOUNTED |
| | SOUND MASKING SPEAKER |

| MULTI-GANG DEVICE DESIGNATIONS | |
|--------------------------------|---|
| | DENOTES MULTI-GANGS OUTLET FOR POWER/COMMUNICATIONS/AV. PROVIDE NUMBER OF GANGS AND DEVICES FOR EACH SYSTEM AS NOTED: |
| | DENOTES No. OF GANG(S) FOR AV DEVICES |
| | DENOTES No. OF GANG(S) FOR COMMUNICATIONS DEVICES |
| | DENOTES No. OF DUPLEX RECEPTACLES |
| | DENOTES OUTLET TAG (A, B, C) |
| | DENOTES LOCATION – 'FB' = FLOOR / 'CL' = CEILING / 'WL' = WALL |

| DISTRIBUTION LEGEND | |
|---------------------|--|
| | TRANSFORMER. VOLTAGE AND RATING AS INDICATED. |
| | ISOLATION TRANSFORMER C/W ELECTROSTATIC SHIELD |
| | CURRENT TRANSFORMER (CT) |
| | POTENTIAL TRANSFORMER (PT) |
| | MOLDED CASE CIRCUIT BREAKER (FIXED) |
| | AIR CIRCUIT BREAKER (FIXED) |
| | AIR CIRCUIT BREAKER (DRAW OUT) |
| | HIGH VOLTAGE CIRCUIT BREAKER |
| | CONTACTOR – NORMALLY OPEN, – NORMALLY CLOSED |
| | FUSE |
| | DISCONNECT SWITCH (FUSED) |
| | DISCONNECT SWITCH (UNFUSED) |
| | LOAD BREAKER SWITCH |
| | TRANSFER SWITCH |
| | FEEDER |
| | BUS |
| | BUS DUCT RISER |
| | GENERATOR |
| | HIRK KEY INTERLOCK |
| | UTILITY METER |
| | UTILITY METER SOCKET |
| | UTILITY METER CABINET |
| | METERING POINT |
| | DIGITAL METERING SYSTEM |
| | SURGE PROTECTIVE DEVICE |
| | NEUTRAL GROUND |
| | GROUND FAULT PROTECTION DEVICE |
| | GROUNDING CONNECTION |
| | LIGHTNING ARRESTER |
| | LIGHT INDICATOR (IE: VOLTAGE) |
| | STRESS CONE |
| | RELAY |
| | AMMETER |
| | VOLTMETER |
| | SINGLE PHASE MOTOR |
| | THREE PHASE MOTOR |
| | PANEL BOARD (SINGLE TUB) |
| | PANEL BOARD (DOUBLE TUB) |

| ELECTRICAL DRAWINGS LIST: | | |
|---------------------------|---|--------|
| DWG. No. | DRAWING TITLE | ISSUED |
| E001 | ELECTRICAL LEGEND AND DRAWING LIST | YES |
| E100 | ELECTRICAL SITE PLAN | YES |
| E101 | ELECTRICAL SITE LIGHTING PLAN | YES |
| E201 | LIGHTING LAYOUT | YES |
| E301 | ELECTRICAL POWER & SYSTEMS GROUND FLOOR PLAN | YES |
| E302 | ELECTRICAL POWER & SYSTEMS MEZZANINE LEVEL PLAN | YES |
| E303 | ELECTRICAL POWER & SYSTEMS ROOF PLAN | YES |
| E500 | ELECTRICAL SINGLE LINE DIAGRAM | YES |
| E501 | IT + SECURITY RISER DIAGRAM | YES |
| E502 | AV REQUIREMENTS | YES |
| E701 | MECHANICAL SCHEDULE | YES |
| E702 | LUMINAIRE & FLOOR BOX SCHEDULE | YES |
| E703 | FIRE ALARM SCHEDULE | YES |
| E801 | LIGHTING CONTROL DETAILS | YES |
| E802 | ELECTRICAL DETAILS I | YES |
| E803 | ELECTRICAL DETAILS II | YES |

| No. | ISSUANCE | DATE |
|-----|-------------------------------|------------|
| 1 | ISSUED FOR SD | 2023-08-04 |
| 2 | ISSUED FOR SD COSTING | 2023-12-01 |
| 3 | ISSUED FOR SD | 2023-12-21 |
| 4 | ISSUED FOR DESIGN DEVELOPMENT | 2024-03-01 |
| 5 | ISSUED FOR DESIGN DEVELOPMENT | 2024-03-21 |
| 6 | ISSUED FOR PERMIT | 2024-09-06 |
| 7 | ISSUED FOR ESA | 2024-10-21 |
| 8 | ISSUED FOR 100% CD | 2024-11-05 |
| 9 | ISSUED FOR TENDER | 2024-11-15 |

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PROJECT
PRE-ENGINEERED BUILDING

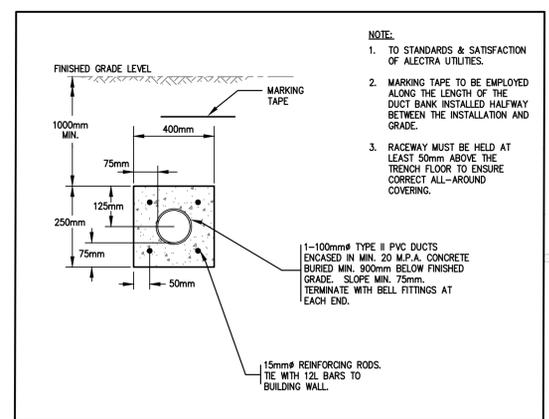
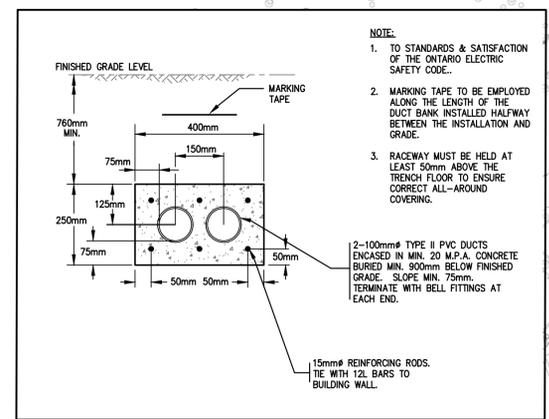
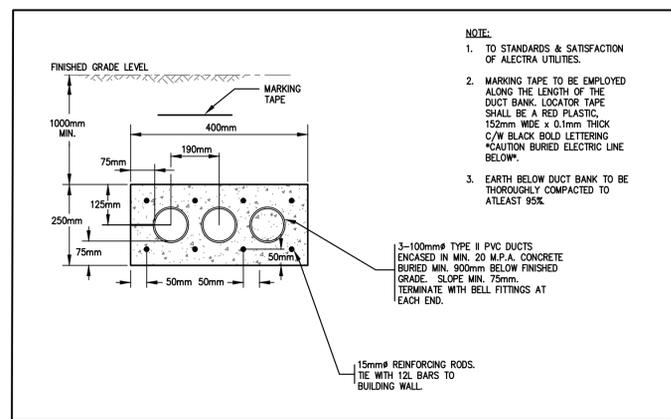
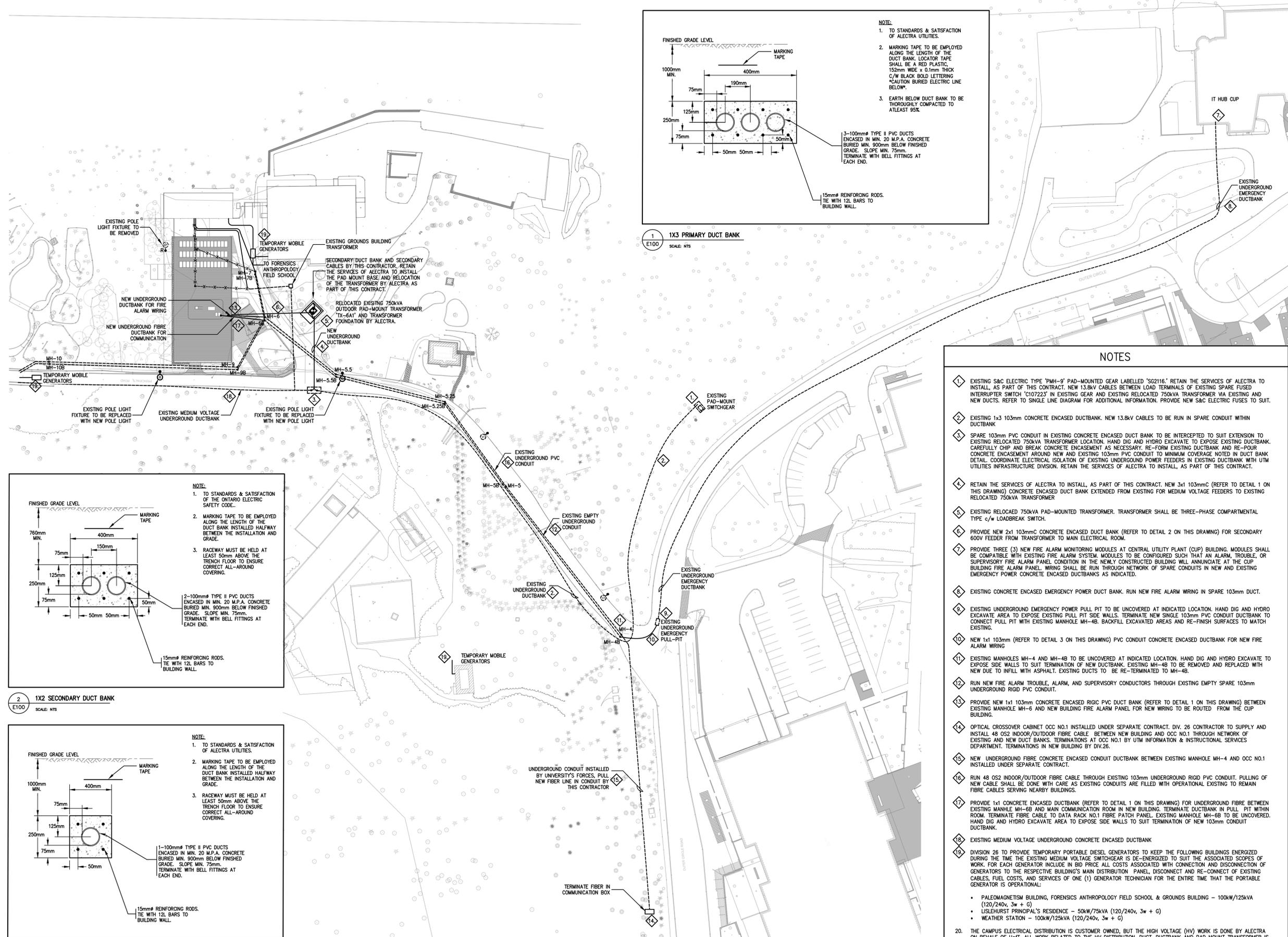
3359 MISSISSAUGA ROAD

TITLE
ELECTRICAL LEGEND AND DRAWING LIST

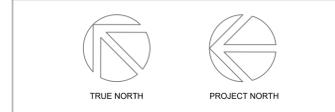


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SCALE: N.T.S.
DATE: FEB 2024
PROJECT NO: 2023-0059
DRAWN BY: MP
CHECKED BY: AT
SHEET NO: E001



- NOTES**
- EXISTING S&C ELECTRIC TYPE 'PMH-9' PAD-MOUNTED GEAR LABELLED 'SG2116.' RETAIN THE SERVICES OF ALECTRA TO INSTALL, AS PART OF THIS CONTRACT. NEW 13.8kV CABLES BETWEEN LOAD TERMINALS OF EXISTING SPARE FUSED INTERRUPTER SWITCH 'CIG7223' IN EXISTING GEAR AND EXISTING RELOCATED 750kVA TRANSFORMER VIA EXISTING AND NEW DUCTS. REFER TO SINGLE LINE DIAGRAM FOR ADDITIONAL INFORMATION. PROVIDE NEW S&C ELECTRIC FUSES TO SUIT.
 - EXISTING 1x3 103mm CONCRETE ENCASED DUCTBANK. NEW 13.8kV CABLES TO BE RUN IN SPARE CONDUIT WITHIN DUCTBANK.
 - SPARE 103mm PVC CONDUIT IN EXISTING CONCRETE ENCASED DUCT BANK TO BE INTERCEPTED TO SUIT EXTENSION TO EXISTING RELOCATED 750kVA TRANSFORMER LOCATION. HAND DIG AND HYDRO EXCAVATE TO EXPOSE EXISTING DUCTBANK. CAREFULLY CHIP AND BREAK CONCRETE ENCASUREMENT AS NECESSARY. RE-FORM EXISTING DUCTBANK AND RE-POUR CONCRETE ENCASUREMENT AROUND NEW AND EXISTING 103mm PVC CONDUIT TO MINIMUM COVERAGE NOTED IN DUCT BANK DETAIL. COORDINATE ELECTRICAL ISOLATION OF EXISTING UNDERGROUND POWER FEEDERS IN EXISTING DUCTBANK WITH UTM UTILITIES INFRASTRUCTURE DIVISION. RETAIN THE SERVICES OF ALECTRA TO INSTALL, AS PART OF THIS CONTRACT.
 - RETAIN THE SERVICES OF ALECTRA TO INSTALL, AS PART OF THIS CONTRACT. NEW 3x1 103mmC (REFER TO DETAIL 1 ON THIS DRAWING) CONCRETE ENCASED DUCT BANK EXTENDED FROM EXISTING FOR MEDIUM VOLTAGE FEEDERS TO EXISTING RELOCATED 750kVA TRANSFORMER.
 - EXISTING RELOCAED 750kVA PAD-MOUNTED TRANSFORMER. TRANSFORMER SHALL BE THREE-PHASE COMPARTMENTAL TYPE c/w LOADBREAK SWITCH.
 - PROVIDE NEW 2x1 103mmC CONCRETE ENCASED DUCT BANK (REFER TO DETAIL 2 ON THIS DRAWING) FOR SECONDARY 600V FEEDER FROM TRANSFORMER TO MAIN ELECTRICAL ROOM.
 - PROVIDE THREE (3) NEW FIRE ALARM MONITORING MODULES AT CENTRAL UTILITY PLANT (CUP) BUILDING. MODULES SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. MODULES TO BE CONFIGURED SUCH THAT AN ALARM, TROUBLE, OR SUPERVISORY FIRE ALARM PANEL CONDITION IN THE NEWLY CONSTRUCTED BUILDING WILL ANNUNCIATE AT THE CUP BUILDING FIRE ALARM PANEL. WIRING SHALL BE RUN THROUGH NETWORK OF SPARE CONDUITS IN NEW AND EXISTING EMERGENCY POWER CONCRETE ENCASED DUCTBANKS AS INDICATED.
 - EXISTING CONCRETE ENCASED EMERGENCY POWER DUCT BANK. RUN NEW FIRE ALARM WIRING IN SPARE 103mm DUCT.
 - EXISTING UNDERGROUND EMERGENCY POWER PULL PIT TO BE UNCOVERED AT INDICATED LOCATION. HAND DIG AND HYDRO EXCAVATE AREA TO EXPOSE EXISTING PULL PIT SIDE WALLS. TERMINATE NEW SINGLE 103mm PVC CONDUIT DUCTBANK TO CONNECT PULL PIT WITH EXISTING MANHOLE MH-4B. BACKFILL EXCAVATED AREAS AND RE-FINISH SURFACES TO MATCH EXISTING.
 - NEW 1x1 103mm (REFER TO DETAIL 3 ON THIS DRAWING) PVC CONDUIT CONCRETE ENCASED DUCTBANK FOR NEW FIRE ALARM WIRING.
 - EXISTING MANHOLES MH-4 AND MH-4B TO BE UNCOVERED AT INDICATED LOCATION. HAND DIG AND HYDRO EXCAVATE TO EXPOSE SIDE WALLS TO SUIT TERMINATION OF NEW DUCTBANK. EXISTING MH-4B TO BE REMOVED AND REPLACED WITH NEW DUE TO INFILL WITH ASPHALT. EXISTING DUCTS TO BE RE-TERMINATED TO MH-4B.
 - RUN NEW FIRE ALARM TROUBLE, ALARM, AND SUPERVISORY CONDUCTORS THROUGH EXISTING EMPTY SPARE 103mm UNDERGROUND RIGID PVC CONDUIT.
 - PROVIDE NEW 1x1 103mm CONCRETE ENCASED RIGID PVC DUCT BANK (REFER TO DETAIL 1 ON THIS DRAWING) BETWEEN EXISTING MANHOLE MH-6 AND NEW BUILDING FIRE ALARM PANEL FOR NEW WIRING TO BE ROUTED FROM THE CUP BUILDING.
 - OPTICAL CROSSOVER CABINET OCC NO.1 INSTALLED UNDER SEPARATE CONTRACT. DIV. 26 CONTRACTOR TO SUPPLY AND INSTALL 48 OS2 INDOOR/OUTDOOR FIBRE CABLE BETWEEN NEW BUILDING AND OCC NO.1 THROUGH NETWORK OF EXISTING AND NEW DUCT BANKS. TERMINATIONS AT OCC NO.1 BY UTM INFORMATION & INSTRUCTIONAL SERVICES DEPARTMENT. TERMINATIONS IN NEW BUILDING BY DIV.26.
 - NEW UNDERGROUND FIBRE CONCRETE ENCASED CONDUIT DUCTBANK BETWEEN EXISTING MANHOLE MH-4 AND OCC NO.1 INSTALLED UNDER SEPARATE CONTRACT.
 - RUN 48 OS2 INDOOR/OUTDOOR FIBRE CABLE THROUGH EXISTING 103mm UNDERGROUND RIGID PVC CONDUIT. PULLING OF NEW CABLE SHALL BE DONE WITH CARE AS EXISTING CONDUITS ARE FILLED WITH OPERATIONAL EXISTING TO REMAIN FIBRE CABLES SERVING NEARBY BUILDINGS.
 - PROVIDE 1x1 CONCRETE ENCASED DUCTBANK (REFER TO DETAIL 1 ON THIS DRAWING) FOR UNDERGROUND FIBRE BETWEEN EXISTING MANHOLE MH-6B AND MAIN COMMUNICATION ROOM IN NEW BUILDING. TERMINATE DUCTBANK IN PULL PIT WITHIN ROOM. TERMINATE FIBRE CABLE TO DATA RACK NO.1 FIBRE PATCH PANEL. EXISTING MANHOLE MH-6B TO BE UNCOVERED. HAND DIG AND HYDRO EXCAVATE AREA TO EXPOSE SIDE WALLS TO SUIT TERMINATION OF NEW 103mm CONDUIT DUCTBANK.
 - EXISTING MEDIUM VOLTAGE UNDERGROUND CONCRETE ENCASED DUCTBANK
 - DIVISION 26 TO PROVIDE TEMPORARY PORTABLE DIESEL GENERATORS TO KEEP THE FOLLOWING BUILDINGS ENERGIZED DURING THE TIME THE EXISTING MEDIUM VOLTAGE SWITCHGEAR IS DE-ENERGIZED TO SUIT THE ASSOCIATED SCOPES OF WORK. FOR EACH GENERATOR INCLUDE IN BID PRICE ALL COSTS ASSOCIATED WITH CONNECTION AND DISCONNECTION OF GENERATORS TO THE RESPECTIVE BUILDING'S MAIN DISTRIBUTION PANEL, DISCONNECT AND RE-CONNECT OF EXISTING CABLES, FUEL COSTS, AND SERVICES OF ONE (1) GENERATOR TECHNICIAN FOR THE ENTIRE TIME THAT THE PORTABLE GENERATOR IS OPERATIONAL:
 - PALEOMAGNETISM BUILDING, FORENSICS ANTHROPOLOGY FIELD SCHOOL & GROUNDS BUILDING - 100kW/125kVA (120/240, 3w + G)
 - LISLEHURST PRINCIPAL'S RESIDENCE - 50kW/75kVA (120/240, 3w + G)
 - WEATHER STATION - 100kW/125kVA (120/240, 3w + G)
 - THE CAMPUS ELECTRICAL DISTRIBUTION IS CUSTOMER OWNED, BUT THE HIGH VOLTAGE (HV) WORK IS DONE BY ALECTRA ON BEHALF OF UoT. ALL WORK RELATED TO THE HV DISTRIBUTION, DUCT, DUCTBANK AND PAD MOUNT TRANSFORMER IS PART OF THIS CONTRACT, BUT SHALL BE UNDERTAKEN BY ALECTRA. RETAIN THE SERVICES OF ALECTRA TO CONDUCT THIS PORTION OF WORK FOR A FULL AND COMPLETE SYSTEM.



| No. | ISSUANCE | DATE |
|-----|-------------------------------|------------|
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| 4 | ISSUED FOR SPA | 2024-01-19 |
| 5 | ISSUED FOR DESIGN DEVELOPMENT | 2024-03-01 |
| 6 | ISSUED FOR DESIGN DEVELOPMENT | 2024-03-21 |
| 7 | ISSUED FOR PERMIT | 2024-09-06 |
| 8 | ISSUED FOR ESA | 2024-10-21 |
| 9 | ISSUED FOR 100% CD | 2024-11-05 |
| 10 | ISSUED FOR TENDER | 2024-11-15 |

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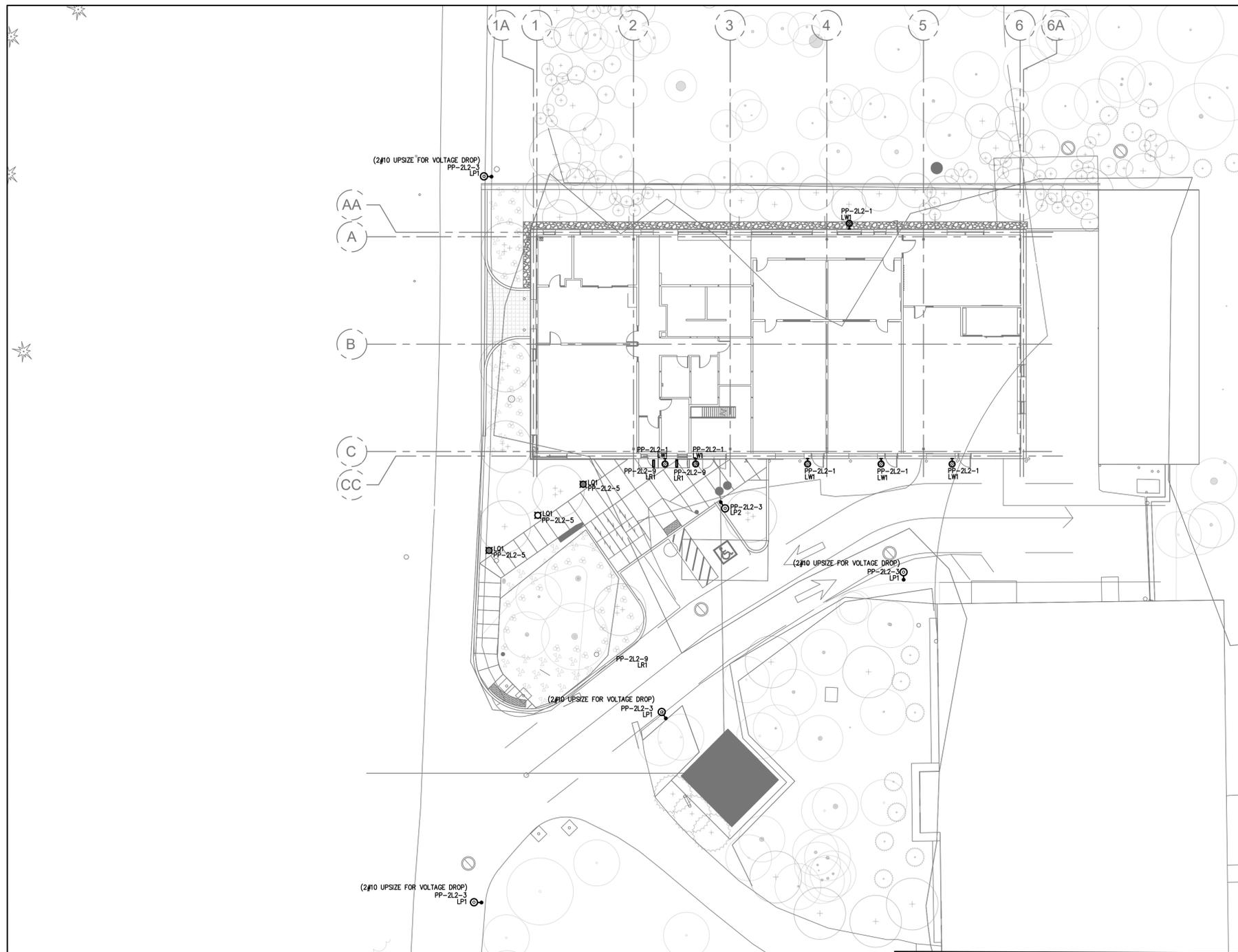
PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

TITLE
ELECTRICAL SITE PLAN

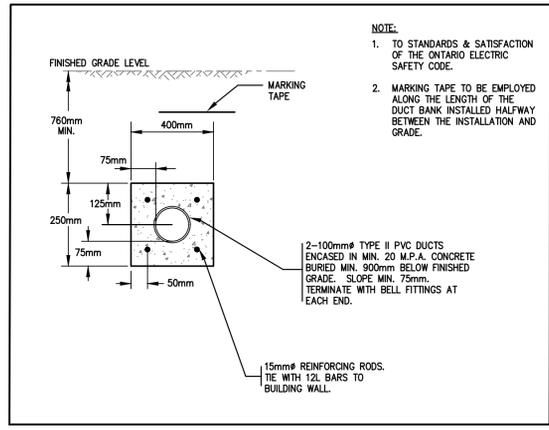


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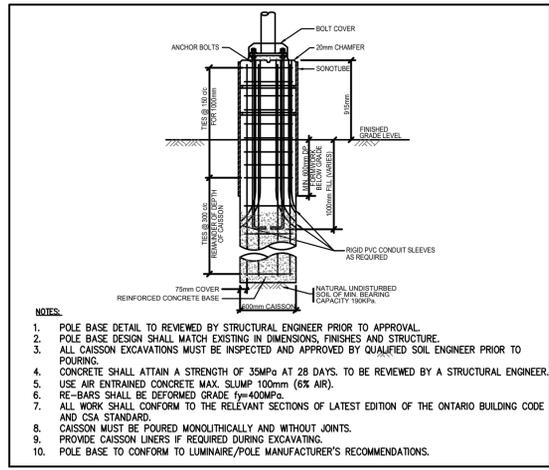
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| SCALE: N.T.S. | SHEET NO.: |
| DATE: FEB 2024 | |
| PROJECT NO.: 2023-0059 | |
| DRAWN BY: MP | |
| CHECKED BY: AT | |



NOTES:
 1. ALL SITE LIGHTS TO BE CONTINUED BY SITE LIGHT CONTROLS. REFER TO 6/E-802 FOR DETAILS.



1 DUCTBANK FOR FEEDERS TO SITE LIGHT POLES
 SCALE: NTS



2 TYPICAL LIGHT/SECURITY POLE BASE
 SCALE: NTS

3 ELECTRICAL SITE LIGHTING PLAN
 SCALE: 1:200

| UTM-PRE ENGINEERED BUILDING | | | | | | | | | |
|--------------------------------|--|--|------------------|---------------|--|--------------|---------------|--|--|
| Site Lighting Fixture Schedule | | | | | | | | | |
| Project No.: 2023-0059 | | | | | | | | | |
| Issued For | | | | | | | | | |
| Type | Luminaire Description | Lamp & Wattage | Control Protocol | Input voltage | Finish | Mounting | Location | Manufacturer & Catalogue # | Notes |
| LP1 | POLE MOUNTED LED FIXTURE WITH TYPE 3 DISTRIBUTION, CORROSION RESISTANT, DIE-CAST ALUMINUM HOUSING. TO BE MOUNTED AT 5500mm. | 35W 4748LMNS, 3000K, 80CRI, LED | 0-10V | 120V | ARCHITECT TO SELECT FROM STANDARD FINISHES | POLE | SITE LIGHTING | BEACON: VIPER AREA/SITE VP-1-160L-35-3K8-3-LINV POLE: VALMONT PATAGONIA SINGLE ARM POLE OR APPROVED EQUAL | FIXTURES SHALL BE IP65 RATED AND DARK SKY COMPLIANT. |
| LP2 | ASYMMETRIC WIDE BEAM POLE MOUNTED LED FIXTURE WITH TYPE 2 DISTRIBUTION, CONSTRUCTED IF DIE-CAST MARINE GRADE ALUMINUM. TO BE MOUNTED AT 4500mm. | 23W 2352LMNS, 3000K, 80CRI, LED | 0-10V | 120V | ARCHITECT TO SELECT FROM STANDARD FINISHES | POLE | SITE LIGHTING | BEGA: LIGHT BUILDING ELEMENT 88977+K3 OR APPROVED EQUAL | FIXTURES SHALL BE IP65 RATED AND DARK SKY COMPLIANT. |
| LQ1 | LED BOLLARD MOUNTED ON PLANTER. CONSTRUCTED WITH MARINE GRADE ALUMINUM. | 14.5W 13.61LMNS, 3000K, 80CRI, LED | 0-10V | 120V | ARCHITECT TO SELECT FROM STANDARD FINISHES | BOLLARD | SITE LIGHTING | BEGA: BOLLARD 95058 OR APPROVED EQUAL | FIXTURES SHALL BE IP65 RATED AND DARK SKY COMPLIANT. |
| LW1 | ARCHITECTURAL LOW PROFILE WALL MOUNTED OUTDOOR LIGHT WITH BUILT-IN NICKEL CADMIUM BATTERY FOR EMERGENCY LIGHTING. PROVIDE PHOTO-SENSOR AND PIR MOTION DETECTOR OPTION. PROVIDE LIGHT SUITABLE FOR -25 TO 50 DEGREES CELSIUS WITH OPTIONAL HEATER OPTION. | 3.4W 1600LMNS (AC), 600LMNS (EMS), 3000K, LED | | 120V | ARCHITECT TO SELECT FROM STANDARD FINISHES | WALL MOUNTED | SITE LIGHTING | HUBBELL COMPASS: CUSO BK-H OR APPROVED EQUAL | FIXTURES SHALL BE IP65 RATED AND DARK SKY COMPLIANT. |
| LR1 | ARCHITECTURAL EXTRUDED ALUMINUM NOMINALLY 2' L X 2' W RECESSED LINEAR FIXTURE. | 7.2W/FT, 750LMNS/FT, 3000K, 90CRI LEED | 0-10V | 120V | ARCHITECT TO SELECT FROM STANDARD FINISHES | RECESSED | SITE LIGHTING | AXIS LIGHTING: EXTEND 2 EX2R-750-90-30-SQ-2-X-120-DPX-X OR APPROVED EQUAL | FIXTURES SHALL BE IP65 RATED |



| No. | ISSUANCE | DATE |
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| 1 | ISSUED FOR SD | 2023-08-04 |
| 2 | ISSUED FOR SD COSTING | 2023-12-01 |
| 3 | ISSUED FOR SD | 2023-12-21 |
| 4 | ISSUED FOR DESIGN DEVELOPMENT | 2024-03-01 |
| 5 | ISSUED FOR DESIGN DEVELOPMENT | 2024-03-21 |
| 6 | ISSUED FOR PERMIT | 2024-09-06 |
| 7 | ISSUED FOR ESA | 2024-10-21 |
| 8 | ISSUED FOR 100% CD | 2024-11-05 |
| 9 | ISSUED FOR TENDER | 2024-11-15 |

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CLIENT
 UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT
 PRE-ENGINEERED BUILDING
 3359 MISSISSAUGA ROAD

TITLE
 ELECTRICAL SITE LIGHTING PLAN



REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS. DO NOT SCALE THIS DRAWING.

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 PROJECT NO.: 2023-0059
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NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND DOCUMENTS.
2. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR FINAL DEVICE LOCATIONS. COORDINATE ALL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATIONS.
3. REFER TO TYPICAL LIGHTING CONTROL DETAIL FOR ADDITIONAL INFORMATION.



| No. | ISSUANCE | DATE |
|-----|-------------------------------|------------|
| 1 | ISSUED FOR DESIGN DEVELOPMENT | 2024-03-21 |
| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2024-03-21 |
| 3 | ISSUED FOR PERMIT | 2024-09-06 |
| 4 | ISSUED FOR ESA | 2024-10-21 |
| 5 | ISSUED FOR 100% CD | 2024-11-05 |
| 6 | ISSUED FOR TENDER | 2024-11-15 |

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PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

TITLE
LIGHTING LAYOUT

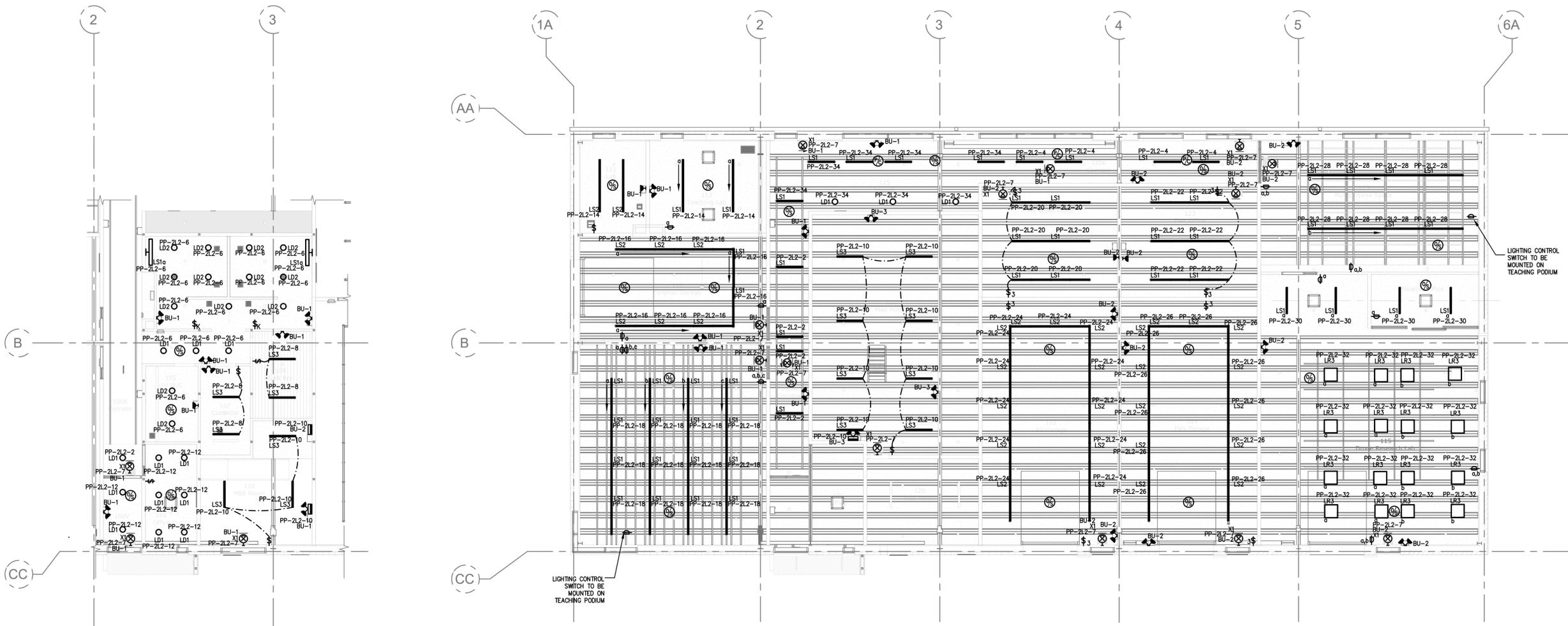
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E201

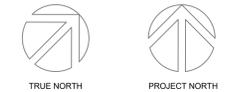


1 LIGHTING PLAN – ENTRY AND SERVICE CORE
E-201 1:100

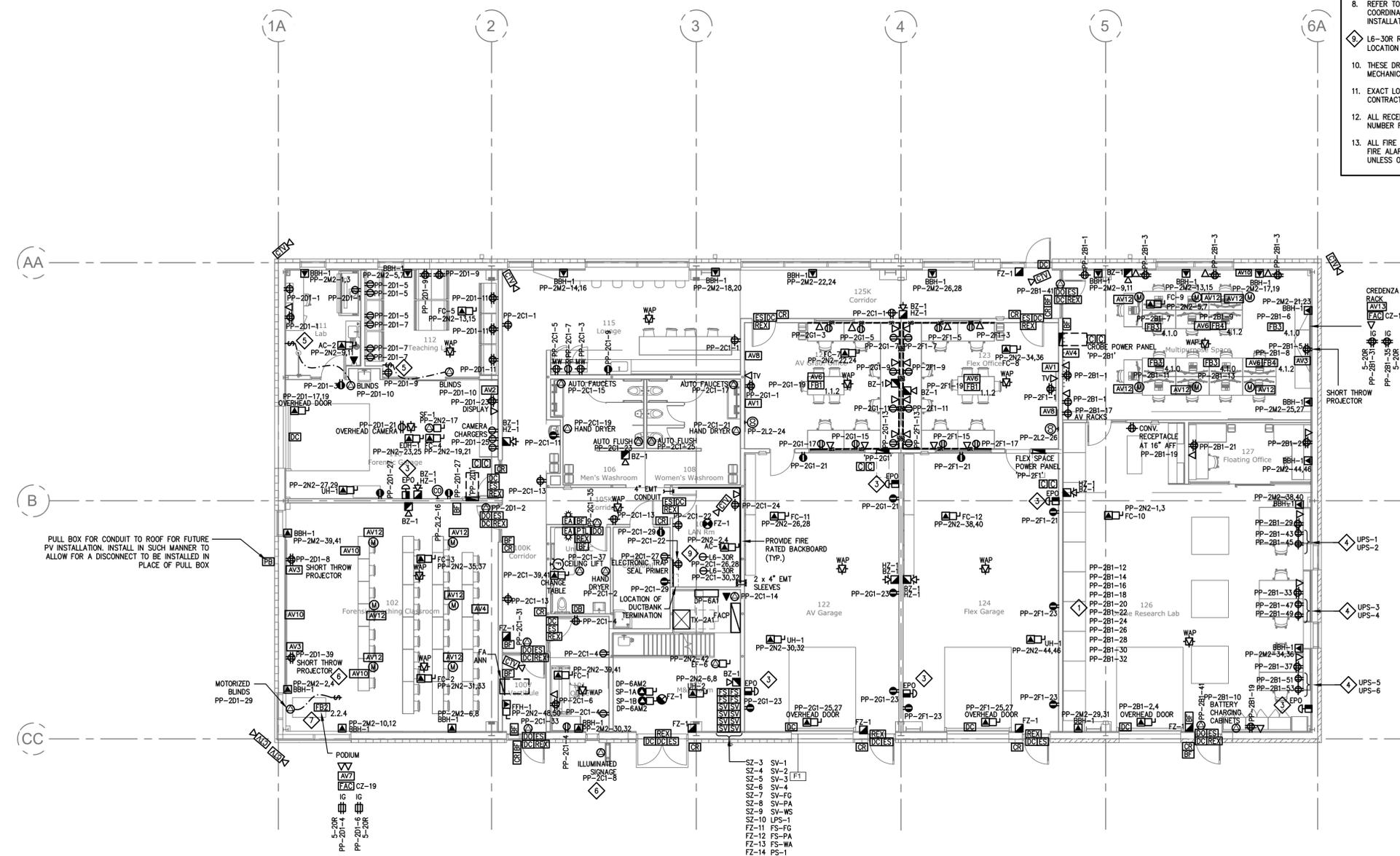
2 LIGHTING PLAN
E-201 1:100

KEY NOTES

1. PROVIDE ROUGH-INS AS LISTED FOLLOWING FOR VARIOUS EQUIPMENTS. FINAL LOCATION AND MOUNTING HEIGHTS TO BE COORDINATED WITH ARCHITECT.
 - 1.1. TEN (10) 5-15R DUPLEX RECEPTACLES WITH DATA CONNECTIONS TO LAPTOPS.
 - 1.2. TWO (2) 5-20R DUPLEX RECEPTACLES.
 - 1.3. TEN (10) 5-15R DUPLEX RECEPTACLES.
2. PROVIDE SEPARATE BACKBOXES AND FACEPLATES FOR POWER AND LOW VOLTAGE DEVICES.
3. PROVIDE PROTECTIVE PLASTIC COVER FOR EPO. PROVIDE RED LAMACOD INDICATING "EMERGENCY POWER OFF" EPO BUTTONS TO BE ENCLOSED IN A CLEAR LIFT COVER.
4. PROVIDE 1800W, LINE INTERACTIVE STANDALONE UPS FOR EACH COMPUTER WORKSTATION (QTY 6). 10MINUTES RUNTIME. UPS SHALL BE APC SMART UPS SERIES SMT2200C. PROVIDE RAISED STAND UNDER UPS SO THAT IT IS NOT SITTING DIRECTLY ON FLOOR. UPS ARE TAGGED UPS 1 TO 6.
5. PROVIDE 2 POSITION MOMENTARY UP & DOWN SWITCH FOR MOTORIZED BLINDS WITH 3#12 WIRE FOR BLINDS CONTROL.
6. ILLUMINATED SIGNAGE TO BE CONTROLLED BY SITE LIGHT CONTROLS. REFER TO 6/E-802.
7. COORDINATE THE FINAL LOCATION OF THE FLOOR BOX WITH AV CONSULTANT PRIOR TO INSTALLATION ON SITE.
8. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR FINAL DEVICE LOCATIONS. COORDINATE ALL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATIONS.
9. L6-30R RECEPTACLES TO BE MOUNTED TO REAR OF 12" MANAGER. COORDINATE THE FINAL LOCATION OF THE RECEPTACLES PRIOR TO INSTALLATION ON SITE.
10. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND DOCUMENTS.
11. EXACT LOCATION OF MECHANICAL EQUIPMENT TO BE COORDINATED WITH MECHANICAL CONTRACTOR, CONFIRM EXACT LOCATION WITH ARCHITECT.
12. ALL RECEPTACLES SHALL BE CLEARLY LABELLED WITH PANEL DESIGNATION AND CIRCUIT NUMBER FOLLOWING FINAL INSTALLATION.
13. ALL FIRE ALARM DEVICES SERVING THIS FLOOR, SHALL BE CONNECTED TO THE RESPECTIVE FIRE ALARM ZONE NUMBER AS INDICATED ON THE DRAWING E703 - FIRE ALARM SCHEDULE, UNLESS OTHERWISE NOTED.



| No. | ISSUANCE | DATE |
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| 4 | ISSUED FOR DESIGN DEVELOPMENT | 2024-03-01 |
| 5 | ISSUED FOR DESIGN DEVELOPMENT | 2024-03-21 |
| 6 | ISSUED FOR PERMIT | 2024-09-06 |
| 7 | ISSUED FOR ESA | 2024-10-21 |
| 8 | ISSUED FOR 100% CD | 2024-11-05 |
| 9 | ISSUED FOR TENDER | 2024-11-15 |



PULL BOX FOR CONDUIT TO ROOF FOR FUTURE PV INSTALLATION. INSTALL IN SUCH MANNER TO ALLOW FOR A DISCONNECT TO BE INSTALLED IN PLACE OF PULL BOX

MOTORIZED BLINDS PP-201-29

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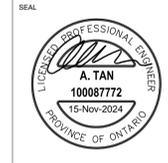


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UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

TITLE
POWER & SYSTEMS LAYOUT - GROUND FLOOR

THEHIDIGROUP
155 Gordon Baker Road, Suite 200
Toronto, ON M2H 3N5 Canada
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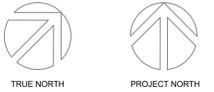
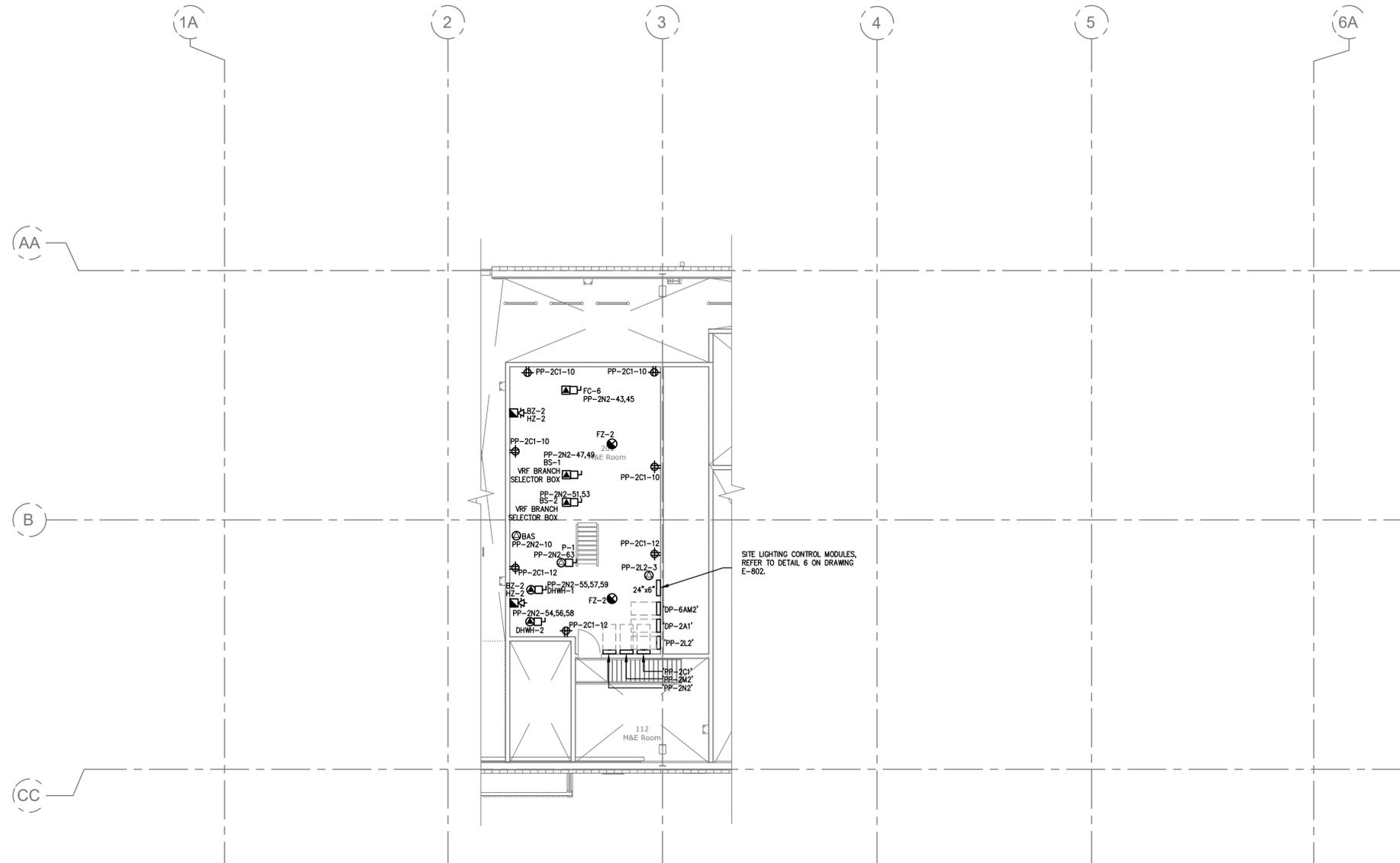


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| DATE: FEB 2024 | E301 |
| PROJECT NO: 2023-0059 | |
| DRAWN BY: MP | |
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NOTES

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2. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR FINAL DEVICE LOCATIONS. COORDINATE ALL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATIONS.
3. EXACT LOCATION OF MECHANICAL EQUIPMENT TO BE COORDINATED WITH MECHANICAL CONTRACTOR.
4. ALL RECEPTACLES SHALL BE CLEARLY LABELLED WITH PANEL DESIGNATION AND CIRCUIT NUMBER FOLLOWING FINAL INSTALLATION.
5. ALL FIRE ALARM DEVICES SERVING THIS FLOOR, SHALL BE CONNECTED TO THE RESPECTIVE FIRE ALARM ZONE NUMBER AS INDICATED ON DRAWING E703 - FIRE ALARM SCHEDULE, UNLESS OTHERWISE NOTED.



| No. | ISSUANCE | DATE |
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| 2 | ISSUED FOR SD | 2023-12-21 |
| 3 | ISSUED FOR DESIGN DEVELOPMENT | 2024-03-21 |
| 4 | ISSUED FOR PERMIT | 2024-09-06 |
| 5 | ISSUED FOR ESA | 2024-10-21 |
| 6 | ISSUED FOR 100% CD | 2024-11-05 |
| 7 | ISSUED FOR TENDER | 2024-11-15 |

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PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

TITLE
POWER & SYSTEMS LAYOUT -
MEZZANINE FLOOR

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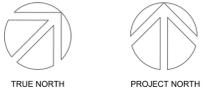
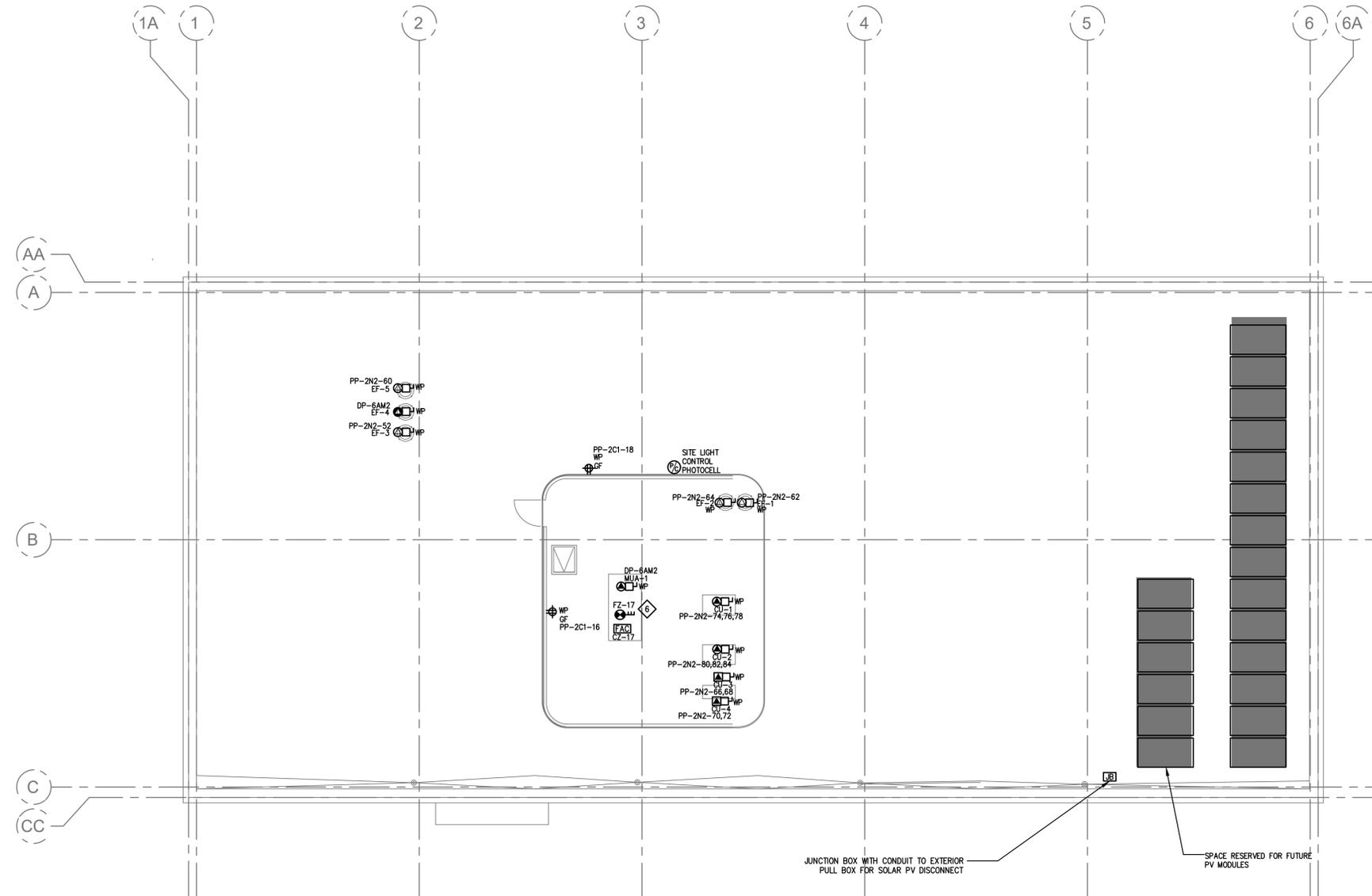


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KEY NOTES

- INSTALL DUCT SMOKE DETECTOR IN STRAIGHT SECTION OF DUCT WORK WHERE THERE IS LAMINAR FLOW
- THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND DOCUMENTS.
- REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR FINAL DEVICE LOCATIONS. COORDINATE ALL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATIONS.
- EXACT LOCATION OF MECHANICAL EQUIPMENT TO BE COORDINATED WITH MECHANICAL CONTRACTOR.
- ALL RECEPTACLES SHALL BE CLEARLY LABELLED WITH PANEL DESIGNATION AND CIRCUIT NUMBER FOLLOWING FINAL INSTALLATION.
- ALL FIRE ALARM DEVICES SERVING THIS FLOOR, SHALL BE CONNECTED TO THE RESPECTIVE FIRE ALARM ZONE NUMBER AS INDICATED ON DRAWING E703 - FIRE ALARM SCHEDULE, UNLESS OTHERWISE NOTED.



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| 5 | ISSUED FOR DESIGN DEVELOPMENT | 2024-03-21 |
| 6 | ISSUED FOR PERMIT | 2024-09-06 |
| 7 | ISSUED FOR ESA | 2024-10-21 |
| 8 | ISSUED FOR 100% CD | 2024-11-05 |
| 9 | ISSUED FOR TENDER | 2024-11-15 |

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PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

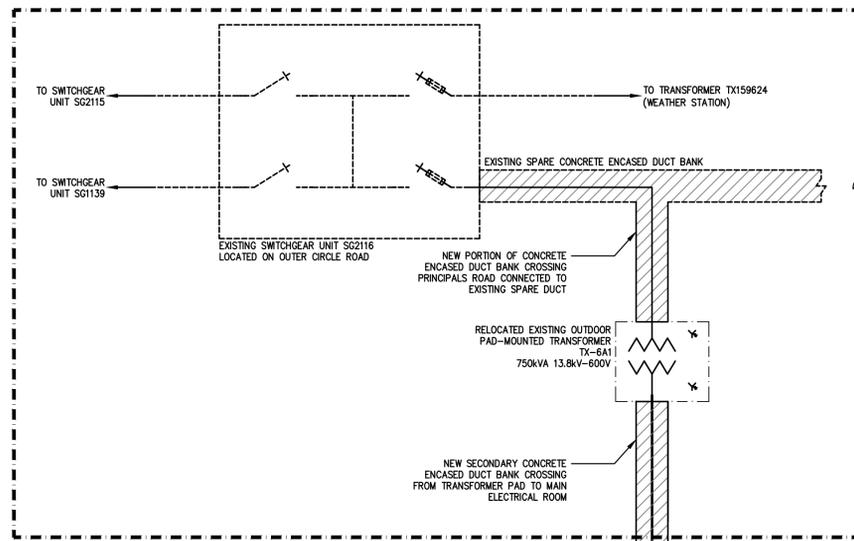
TITLE
POWER & SYSTEMS LAYOUT - ROOF

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Toronto, ON M2H 3N5 Canada
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| PROJECT NO: 2023-0059 | |
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DIV. 26 CONTRACTOR TO RETAIN ALECTRA TO COMPLETE SCOPE OF WORK. DIVISION OF MATERIAL SUPPLY, INSTALL AND TERMINATIONS SHALL BE AS PER UTM SERVICE AGREEMENT WITH ALECTRA

ALECTRA CONTACT:
ROB ELLIOTT
416-529-0391
ROB.ELLIOTT@ALECTRAPOWERSERVICES.COM

KEY NOTES

1 THIS BUILDING IS SUB-FED FROM THE CENTRAL UTILITIES PLANT, THEREFORE A HYDRO BULK METER IS NOT EQUIPPED IN THIS BUILDING.

2 PROVIDE A DIGITAL CHECK METER WHICH CAN RECORD THE PEAK LOAD OBSERVED IN KW AND KVA FROM ITS LAST RESET. PROVIDE SCHNEIDER ELECTRIC PM5563 METER. THIS METER SHALL BE INTEGRATED INTO THE CAMPUS PME SYSTEM.

RESPONSIBILITY MATRIX

| SCOPE | SUPPLY | INSTALL |
|------------------|---------|---------|
| PRIMARY CABLES | ALECTRA | ALECTRA |
| SECONDARY CABLES | DIV.26 | DIV.26 |
| TERMINATIONS | - | ALECTRA |
| TRANSFORMER | ALECTRA | ALECTRA |
| TRANSFORMER PAD | ALECTRA | ALECTRA |

NOTES:

1. RETAIN THE SERVICES OF ALECTRA TO PERFORM THE SCOPE OF WORK IDENTIFIED ABOVE AS PART OF THIS CONTRACT

- NOTES**
- ALL FLOOR MOUNTED ELECTRICAL ROOM EQUIPMENT SHALL BE MOUNTED ON A 100MM CONCRETE PAD. THIS CONTRACTOR SHALL PROVIDE THE PADS TO MEET THE REQUIREMENTS OF THE STRUCTURAL DIVISION.
 - ALL MAIN ELECTRICAL ROOM EQUIPMENT IS TO BE SPRINKLERPROOF DESIGNED WITH DRIP SHIELDS.
 - ELECTRICAL SERVICE GROUND MUST CONFORM TO OESC SECTION 36 AND TABLE 51.
 - ALL LIFE SAFETY ELECTRICAL DISTRIBUTION CABLES ARE TO BE 2 HOUR FIRE RATED CABLES (MI) OR ENCLOSED IN A 2 HOUR FIRE RATED ENCLOSURE. CONCRETE ENCASEMENT TO BE 76MM MINIMUM ON ALL SIDES.
 - ALL TRANSFORMERS LOCATED IN MAIN ELECTRICAL ROOM OR MECHANICAL PENTHOUSE ARE TO BE MOUNTED ON NEOPRENE "NSN" PADS WITH 13MM STATIC DEFLECTION. NEOPRENE MOUNTING PADS ARE TO SUPPORT CORE AND COIL FROM DIRECT CONTACT WITH CONCRETE BASE.

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| 9 | ISSUED FOR TENDER | 2024-11-15 |

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UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT

PRE-ENGINEERED BUILDING

3359 MISSISSAUGA ROAD

TITLE

ELECTRICAL SINGLE LINE DIAGRAM

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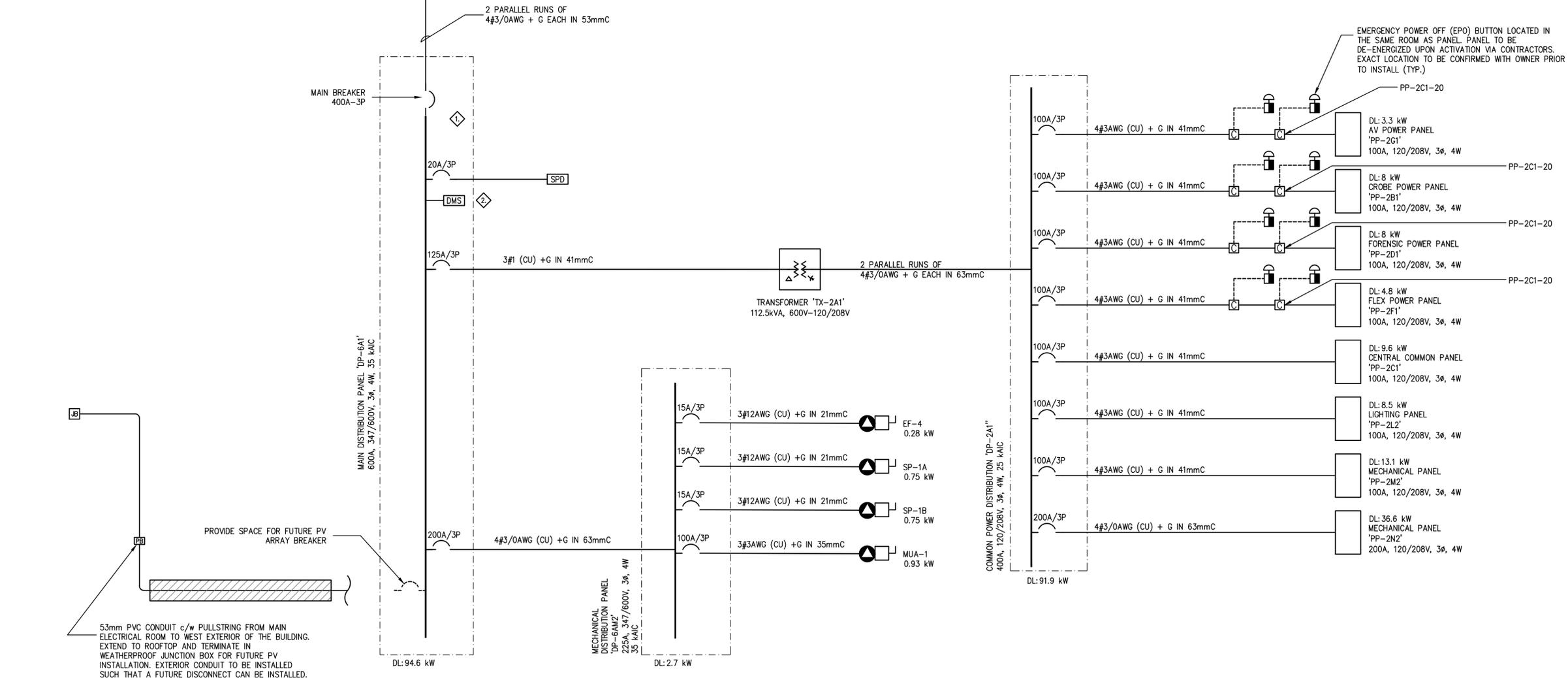
SCALE: N.T.S. SHEET NO: E500

DATE: FEB 2024

PROJECT NO: 2023-0059

DRAWN BY: MP

CHECKED BY: AT



| SCOPE ITEM | AUDIOVISUAL CONTRACTOR (A.V.C.) | ELECTRICAL CONTRACTOR (E.C.) | GENERAL CONTRACTOR (G.C.) | COMMUNICATIONS CONTRACTOR (C.C.) |
|--|--|--|--|--|
| AV SYSTEMS CONDUIT, BACKBOXES AND CABLE TRAYS | - | PROVIDE PULL-READY SYSTEM INCLUDING ALL CONDUIT, BACKBOXES AND CABLE TRAYS. ALL CONDUITS TO BE COMPLETE WITH PULLSTRING. | - | - |
| AV WALLBOX CONNECTOR PLATES, CUSTOM OR STANDARD | PROVIDE. FINISH PER ARCHITECT'S INSTRUCTIONS | - | - | - |
| AV FLOORBOXES | MODIFY PLATES TO SUIT FLOORBOX AND INSTALL | PROVIDE FLOORBOX; COORDINATE BOX TYPE WITH AV CONSULTANT; SUPPLY SAMPLE IF REQUESTED, SUPPLY BLANK PLATES TO AV CONTRACTOR | - | - |
| AV SYSTEMS CABLE (LOW VOLTAGE, INCLUDING NETWORK CABLING WITH PATCH CABLES FOR AV SYSTEMS) | PROVIDE | - | - | - |
| AC OUTLETS FOR DISPLAYS, PROJECTORS, AV EQUIPMENT, FLOORBOXES, ETC | - | PROVIDE | - | - |
| DIRECT POWER CONNECTIONS FOR AV SYSTEMS RACKS | PROVIDE DISTRIBUTION WITHIN RACK | PROVIDE POWER CIRCUITS AS REQUIRED AT LOCATIONS NOTED ON DRAWINGS. COORDINATE LOCATIONS WITH AV CONTRACTOR. PROVIDE SEPARATE NEUTRAL CONDUCTOR FOR EACH CIRCUIT. | - | - |
| LAN DROPS FOR OWNER NETWORK | SPECIFY LOCATIONS AND COORDINATE WITH G.C. | - | - | PROVIDE. REFER TO COORDINATION MATRIX FOR LOCATIONS AND QUANTITIES |
| PATCH CABLING TO CLIENT NETWORK FOR AV DEVICES | INSTALL | - | - | SUPPLY |
| MILLWORK FURNITURE (TABLES, RACK ENCLOSURES, LECTERNS AND CREDENZAS) | FIT-UP MILLWORK WITH AV DEVICES. COORDINATE WITH DESIGNERS, G.C., E.C. AND FURNITURE/MILLWORK MANUFACTURER | PROVIDE POWER AND LAN CONNECTIVITY SHOWN ON DRAWINGS AND INSTALL ROUGH-INS AS REQUIRED | PROVIDE AND COORDINATE CUTOUTS, WIRING AND DEVICE PLACEMENTS | - |
| DISPLAY AND PROJECTOR MOUNTING | SUPPLY AND INSTALL STANDARD OR CUSTOM BRACKETS AS REQUIRED | - | PROVIDE BLOCKING AND MISCELLANEOUS METALS AS REQUIRED | - |
| CEILING MOUNTED LOUDSPEAKER BACKBOXES INTO DRYWALL CEILINGS | PROVIDE | PROVIDE CONDUIT TO SPEAKER BACKBOXES. COORDINATE WITH AV CONTRACTOR ON SITE | PROVIDE CEILING SPEAKER CUTOUTS | - |
| CEILING MOUNTED LOUDSPEAKERS INTO TILE CEILINGS | PROVIDE | - | PROVIDE CEILING SPEAKER CUTOUTS | - |
| AV SYSTEMS ELECTRONICS, HARDWARE, RACKS (PERMANENT AND PORTABLE) | PROVIDE; REUSE OWNER SUPPLIED EQUIPMENT AS NOTED IN TENDER DOCUMENTS | - | - | - |
| AV CONTROL SYSTEM PAGE DESIGN AND TESTING | PROVIDE; WRITE ALL PROGRAMMING CODE; DESIGN AND IMPLEMENT | - | - | - |
| LOW VOLTAGE RELAY CONTROLLERS (LVC) FOR MOTORIZED PROJECTION SCREENS AND LIFTS | SUPPLY LVC TO E.C.; PROVIDE LOW VOLTAGE CONTROL CABLE | PROVIDE HIGH VOLTAGE CABLE, TERMINATIONS AND LABOR AS REQUIRED | PROVIDE ACCESS HATCH AS REQUIRED FOR BACKBOX ACCESS | - |
| INTELLIGENT LIGHTING AND BLIND/SHADE SYSTEMS | CONNECT AV CONTROL SYSTEM TO RS-232 PROTOCOL CONVERTER. COORDINATE INSTALLATION LOCATION WITH E.C. | PROVIDE LIGHTING/BLIND SYSTEM TO RS-232 PROTOCOL CONVERTER. COORDINATE INSTALLATION LOCATION WITH A.V.C. | PROVIDE BLINDS SYSTEM AND SHADE MOTOR GROUP CONTROLLERS. | - |
| CEILING RECESSED PROJECTION SCREENS | PROVIDE | PROVIDE HIGH VOLTAGE CABLE TO LVC | PROVIDE CUTOUT. FINISH CEILING AFTER INSTALLATION. | - |
| FIRE ALARM CONNECTION | PROVIDE MUTE FUNCTIONALITY ON ALL SOUND SYSTEMS. TO BE TRIGGERED ON ACTIVATION OF FIRE ALARM. | PROVIDE FACP DRY CONTACT RELAY CONNECTION TO AV CONTRACTOR | - | - |
| REMOVAL OF EXISTING INSTALLED AUDIOVISUAL EQUIPMENT NOT PLANNED FOR REUSE | COORDINATE. IF AV CONTRACTOR IS NOT ONBOARD, COORDINATE WITH AV CONSULTANT. | - | PROVIDE REMOVAL AND DISPOSAL | - |

- NOTES:
1) THE SCOPE OF WORK OF THE TRADES AS IT RELATES TO AUDIO VISUAL SYSTEMS IS DESCRIBED IN THE TABLE ABOVE. THE TERM "PROVIDE" MEANS "SUPPLY, INSTALL, TERMINATE, TEST AND COMMISSION"
2) PROVIDE ALL SCOPE INDICATED UNDER ELECTRICAL CONTRACTOR (EC) COLUMN. REFER TO AV DRAWINGS PREPARED BY SMITH AND ANDERSEN WHICH FORMS PART OF THIS CONTRACT

01 DIVISION OF RESPONSIBILITY
E502 SCALE: NTS

| AUDIOVISUAL | | | | ELECTRICAL | | | | | | | | | | COMMUNICATION | MECHANICAL | GENERAL |
|---|--------|-------|----------------------------------|-----------------|-------------|---|---------------------------------|-------------|-------------|----------------|-------------|-------|----------|-----------------------------|-----------------|---------|
| DEVICE DETAILS | | | | REQUIREMENTS | | | | | | | | | | RECEPTACLES | HEAT LOAD | NOTES |
| SYMBOL NAME | SYMBOL | ID | MOUNTING HEIGHT (TO CENTRE LINE) | FLOOR BOX MODEL | MUDRING BOX | AV BACKBOX/MUDRING SIZE | BACKBOX/MUDRING MOUNTING HEIGHT | VOLTAGE [V] | CURRENT [A] | UNIT POWER [W] | GROUND TYPE | TYPE | QUANTITY | LAN DROPS FOR OWNER NETWORK | UNIT HEAT [BTU] | |
| 65" WALL MOUNT FLAT PANEL DISPLAY | | FPD1 | 1625mm (64") AFF | | AV1 | (1)2 GANG AV MUDRING + CONDUIT | 1830mm (72") AFF | 120 | 2 | 240 | NORMAL | 5-15R | (1)QUAD | (2)NETWORK DROPS | 818.88 | |
| 32" WALL MOUNT FLAT PANEL DISPLAY | | FPD2 | 1625mm (64") AFF | | AV2 | (1)2 GANG AV MUDRING + CONDUIT | 1830mm (72") AFF | 120 | 1 | 120 | NORMAL | 5-15R | (1)QUAD | (2)NETWORK DROPS | 409.44 | |
| SHORT THROW PROJECTOR | | PROJ | 2685mm (108") AFF | | AV3 | (1)2 GANG AV MUDRING + CONDUIT | 2685mm (108") AFF | 120 | 4 | 480 | NORMAL | 5-15R | (1)QUAD | - | 1637.76 | |
| WALL MOUNT PTZ CAMERA | | CAM1 | 2135mm (84") AFF | | AV4 | (1)2 GANG AV MUDRING + CONDUIT | 2135mm (84") AFF | - | - | - | - | - | - | - | - | |
| CEILING MOUNT PTZ CAMERA | | CAM2 | AT FINISHED CEILING | | AV5 | - | - | - | - | - | - | - | - | - | - | |
| FLOORBOX TABLE MONUMENT | | FB1 | AT FINISHED FLOOR | | AV6 | (1)2 GANG OPENING AT FLOORBOX + CONDUIT | AT FINISHED FLOOR | 120 | 1 | 120 | NORMAL | 5-15R | (1)DUPEX | (2)NETWORK DROPS | 409.44 | |
| PODIUM | | FB2 | AT FINISHED FLOOR | | AV7 | (1)4 GANG OPENING AT FLOORBOX + CONDUIT | AT FINISHED FLOOR | 120 | 20.00 | 2400 | ISOLATED | 5-20R | (2)DUPEX | (6)NETWORK DROPS | 5118 | |
| WALL MOUNT BUTTON CONTROL PANEL | | BP | AT SWITCH HEIGHT | | AV8 | (1)1 GANG AV MUDRING + CONDUIT | AT SWITCH HEIGHT | - | - | - | - | - | - | - | - | |
| WIRELESS MIC ANTENNA | | ANT1 | AT FINISHED CEILING | | AV9 | (1)1 GANG AV BACKBOX + CONDUIT | AT FINISHED CEILING | - | - | - | - | - | - | - | - | |
| WIRELESS ASSISTIVE LISTENING SYSTEM ANTENNA | | ALS | 2135mm (84") AFF | | AV10 | (1)1 GANG AV BACKBOX + CONDUIT | 2135mm (84") AFF | - | - | - | - | - | - | - | - | |
| CEILING MICROPHONE | | MIC1 | AT FINISHED CEILING | | AV11 | - | - | - | - | - | - | - | - | - | - | |
| PENDANT SPEAKERS | | S1 | AT FINISHED CEILING | | AV12 | (1)1 GANG AV BACKBOX + CONDUIT | AT FINISHED CEILING | - | - | - | - | - | - | - | - | |
| CREDENZA RACK | | RACK1 | AT RECEPTACLE HEIGHT | | AV13 | (1)PULL BOX SIZED TO CONDUIT REQUIREMENTS + CONDUIT | AT RECEPTACLE HEIGHT | 120 | 20.00 | 2400 | ISOLATED | 5-20R | (2)QUAD | (4)NETWORK DROPS | 5118 | |

02 AV COORDINATION MATRIX
E502 SCALE: NTS

| RESPONSIBILITY MATRIX | | | | | | |
|---|----------------|------------------|------------------|------------------|----------|---------------|
| SYSTEM WORK | ACCESS CONTROL | BIOMETRIC SYSTEM | GUESTROOM ACCESS | VIDEO MANAGEMENT | INTERCOM | DOOR HARDWARE |
| ROUGH-IN & CONDUIT | ELEC | ELEC | ELEC | ELEC | ELEC | ELEC/DOOR |
| CABLING & TERMINATION | SEC | SEC/CBL | CBL | CBL | SEC/CBL | DOOR/SEC |
| FIELD DEVICE INSTALLATION & TERMINATION | SEC | SEC | SEC | SEC | SEC | DOOR/SEC |
| PROGRAMMING | SEC | SEC | SEC | SEC | SEC | N/A |
| COMMISSIONING & TESTING | SEC | SEC | SEC | SEC | SEC | DOOR/SEC |

ELEC = ELECTRICAL CONTRACTOR (DN. 26)
CBL = STRUCTURED CABLING CONTRACTOR (DN. 27)
SEC = SECURITY CONTRACTOR (DN. 28)
DOOR = DOOR HARDWARE CONTRACTOR (DN. 8)

NOTES:
1. PROVIDE ALL CONDUIT BACKBOX AND PULLSTRING AS SHOWN ON THE SECURITY DRAWINGS PREPARED BY THE HDI GROUP, WHICH FORMS PART OF THIS CONTRACT.

03 SECURITY RESPONSIBILITY MATRIX
E502 SCALE: NTS

| No. | ISSUANCE | DATE |
|-----|--------------------|------------|
| 1 | ISSUED FOR 100% CD | 2024-11-05 |
| 2 | ISSUED FOR TENDER | 2024-11-15 |

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CLIENT
UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

TITLE
AV REQUIREMENTS

THEHIDIGROUP
155 Gordon Baker Road, Suite 200
Toronto, ON M2H 3N5 Canada
T. 416 364 2100 | HDI.com



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DATE: FEB 2024
PROJECT NO: 2023-0059
DRAWN BY: MP
CHECKED BY: AT

| MECHANICAL EQUIPMENT & MOTOR STARTER SCHEDULE | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---------------------------------|-------|------|-------|----|---------|---------|---------|----------|---------|-------------------------------|---------------------------|---------------------|------|------|---------------|----------------|--------------|-------------------------|---------|-------------|
| EQUIPMENT | | | MOTOR | | | | | | | | STARTER | | | | | | POWER | | | | REMARKS | |
| TAG | DESCRIPTION | LOCATION | KW | HP | VOLTS | PH | FLA (A) | MCA (A) | MOP (A) | FED FROM | TYPE | HAND-OFF-AUTO SELECTOR SWITCH | RUNNING PILOT LIGHT GREEN | OFF PILOT LIGHT RED | N.O. | N.C. | F.A. START UP | F.A. SHUT DOWN | BREAKER SIZE | WIRE SIZE | | LIFE SAFETY |
| FC-1 | VARIABLE REFRIGERANT FLOW (INDOOR UNITS) | OFFICE 109 | | | 208 | 1 | - | 0.8 | 15 | PP-2N2 | | | | | | | | | 15A-2P | 2# 12 AWG (CU) IN 21mmC | | |
| FC-2 | VARIABLE REFRIGERANT FLOW (INDOOR UNITS) | FORENSIC TEACHING CLASSROOM 104 | | | 208 | 1 | - | 1.4 | 15 | PP-2N2 | | | | | | | | | 15A-2P | 2# 12 AWG (CU) IN 21mmC | | |
| FC-3 | VARIABLE REFRIGERANT FLOW (INDOOR UNITS) | FORENSIC TEACHING CLASSROOM 104 | | | 208 | 1 | - | 1.4 | 15 | PP-2N2 | | | | | | | | | 15A-2P | 2# 12 AWG (CU) IN 21mmC | | |
| FC-4 | VARIABLE REFRIGERANT FLOW (INDOOR UNITS) | FORENSIC GARAGE 105 | | | 208 | 1 | - | 0.8 | 15 | PP-2N2 | | | | | | | | | 15A-2P | 2# 12 AWG (CU) IN 21mmC | | |
| FC-5 | VARIABLE REFRIGERANT FLOW (INDOOR UNITS) | TEACHING LAB 108 | | | 208 | 1 | - | 1.4 | 15 | PP-2N2 | | | | | | | | | 15A-2P | 2# 12 AWG (CU) IN 21mmC | | |
| FC-6 | VARIABLE REFRIGERANT FLOW (INDOOR UNITS) | LOUNGE 103 | | | 208 | 1 | - | 1.8 | 15 | PP-2N2 | | | | | | | | | 15A-2P | 2# 12 AWG (CU) IN 21mmC | | |
| FC-7 | VARIABLE REFRIGERANT FLOW (INDOOR UNITS) | AV. GRAD OFFICE 110 | | | 208 | 1 | - | 0.8 | 15 | PP-2N2 | | | | | | | | | 15A-2P | 2# 12 AWG (CU) IN 21mmC | | |
| FC-8 | VARIABLE REFRIGERANT FLOW (INDOOR UNITS) | FLEX OFFICE 112 | | | 208 | 1 | - | 0.8 | 15 | PP-2N2 | | | | | | | | | 15A-2P | 2# 12 AWG (CU) IN 21mmC | | |
| FC-9 | VARIABLE REFRIGERANT FLOW (INDOOR UNITS) | MULTIPURPOSE SPACE 114 | | | 208 | 1 | - | 1.8 | 15 | PP-2N2 | | | | | | | | | 15A-2P | 2# 12 AWG (CU) IN 21mmC | | |
| FC-10 | VARIABLE REFRIGERANT FLOW (INDOOR UNITS) | DRONE RESEARCH LAB 115 | | | 208 | 1 | - | 1.8 | 15 | PP-2N2 | | | | | | | | | 15A-2P | 2# 12 AWG (CU) IN 21mmC | | |
| FC-11 | VARIABLE REFRIGERANT FLOW (INDOOR UNITS) | AV GARAGE 111 | | | 208 | 1 | - | 0.8 | 15 | PP-2N2 | | | | | | | | | 15A-2P | 2# 12 AWG (CU) IN 21mmC | | |
| FC-12 | VARIABLE REFRIGERANT FLOW (INDOOR UNITS) | FLEX GARAGE 113 | | | 208 | 1 | - | 0.8 | 15 | PP-2N2 | | | | | | | | | 15A-2P | 2# 12 AWG (CU) IN 21mmC | | |
| CU-1 | VARIABLE REFRIGERANT FLOW (OUTDOOR UNITS) | | | | 208 | 3 | | | 34.1 | 35 | PP-2N2 | | | | | | | | 35A-3P | 3# 10 AWG (CU) IN 21mmC | | |
| CU-2 | VARIABLE REFRIGERANT FLOW (OUTDOOR UNITS) | | | | 208 | 3 | | | 34.1 | 35 | PP-2N2 | | | | | | | | 35A-3P | 3# 10 AWG (CU) IN 21mmC | | |
| BS-1 | BRANCH SELECTOR BOX | | | | 208 | 1 | | | 0.6 | 15 | PP-2N2 | | | | | | | | 15A-2P | 2# 12 AWG (CU) IN 21mmC | | |
| BS-2 | BRANCH SELECTOR BOX | | | | 208 | 1 | | | 0.6 | 15 | PP-2N2 | | | | | | | | 15A-2P | 2# 12 AWG (CU) IN 21mmC | | |
| FFH-1 | WALL FORCE FLOW HEATER | | 2 | - | 208 | 1 | | | | 15 | PP-2N2 | | | | | | | | 15A-2P | 2# 12 AWG (CU) IN 21mmC | | |
| BBH-1 | BASEBOARD HEATER | | 1.125 | - | 208 | 1 | | | | 15 | PP-2N2 | | | | | | | | 15A-2P | 2# 12 AWG (CU) IN 21mmC | | |
| EDH-1 | DUCT HEATER | | 12 | | 208 | 1 | | | | 80 | PP-2N2 | | | | | | | | 80A-2P | 2# 8 AWG (CU) IN 21mmC | | |
| UH-1 | ELECTRIC UNIT HEATER | | - | 1/30 | 208 | 1 | | | | 15 | PP-2N2 | | | | | | | | 15A-2P | 2# 12 AWG (CU) IN 21mmC | | |
| UH-2 | ELECTRIC UNIT HEATER | | - | 1/30 | 208 | 1 | | | | 15 | PP-2N2 | | | | | | | | 15A-2P | 2# 12 AWG (CU) IN 21mmC | | |
| SF-1 | SUPPLY FAN | | - | 0.5 | 120 | 1 | | | | 15 | PP-2N2 | | | | | | | | 15A-1P | 2# 12 AWG (CU) IN 21mmC | | |
| MUA-1 | MAKE-UP (VENTILATION) AIR UNIT | | | | 575 | 3 | 76.8 | 95.7 | | | DP-6AM2 | | | | | | | | 100A-3P | 3#3 AWG (CU) IN 35mmC | | |
| EF-1 | ROOF MOUNTED EXHAUST FAN | | | 1/4 | 120 | 1 | | | | | PP-2N2 | | | | | | | | 15A-1P | 2# 12 AWG (CU) IN 21mmC | | |
| EF-2 | ROOF MOUNTED EXHAUST FAN | | | 1/4 | 120 | 1 | | | | | PP-2N2 | | | | | | | | 15A-1P | 2# 12 AWG (CU) IN 21mmC | | |
| EF-3 | ROOF MOUNTED EXHAUST FAN | | | 1/5 | 120 | 1 | | | | | PP-2N2 | | | | | | | | 15A-1P | 2# 12 AWG (CU) IN 21mmC | | |
| EF-4 | LABORATORY EXHAUST FAN | | | 3/4 | 575 | 3 | | | | | DP-6AM2 | | | | | | | | 15A-3P | 3# 12 AWG (CU) IN 21mmC | | |
| EF-5 | ROOF MOUNTED EXHAUST FAN | | | 1/5 | 120 | 1 | | | | | PP-2N2 | | | | | | | | 15A-1P | 2# 12 AWG (CU) IN 21mmC | | |
| EF-6 | IN-LINE CENTRIFUGAL | | 0.39 | - | 120 | 1 | | | | | PP-2N2 | | | | | | | | 15A-1P | 2# 12 AWG (CU) IN 21mmC | | |
| P-1 | DOMESTIC HOT WATER RECIRCULATION PUMP | M&E ROOM 201 | | 1/4 | 120 | 1 | | | | | PP-2N2 | | | | | | | | 15A-1P | 2# 12 AWG (CU) IN 21mmC | | |
| SP-1 A&B | WEEPING TILE SUMP PIT | M&E ROOM 121 | 2 | 575 | 3 | | | | | | DP-6AM2 | | | | | | | | 15A-3P | 3# 12 AWG (CU) IN 21mmC | | |
| AC-1 | | 120 LAN ROOM | | | 208 | 1 | | | 20 | | PP-2N2 | | | | | | | | 15A-2P | 2# 12 AWG (CU) IN 21mmC | | |
| AC-2 | | 107 LAB | | | 208 | 1 | | 12.3 | | | PP-2N2 | | | | | | | | 15A-2P | 2# 12 AWG (CU) IN 21mmC | | |
| CU-3 | | | | | 208 | 1 | | 14.23 | 20 | | PP-2N2 | | | | | | | | 15A-2P | 2# 12 AWG (CU) IN 21mmC | | |
| CU-4 | | | | | 208 | 1 | | 12.3 | 20 | | PP-2N2 | | | | | | | | 15A-2P | 2# 12 AWG (CU) IN 21mmC | | |
| DHW-1 | DOMESTIC HOT WATER HEATER | M&E ROOM 201 | | | 208 | 3 | 34 | 42.5 | 85 | | PP-2N2 | | | | | | | | 45A-3P | 3# 8 AWG (CU) IN 21mmC | | |
| DHW-2 | DOMESTIC HOT WATER HEATER | M&E ROOM 201 | | | 208 | 3 | 34 | 42.5 | 85 | | PP-2N2 | | | | | | | | 45A-3P | 3# 8 AWG (CU) IN 21mmC | | |

| No. | ISSUANCE | DATE |
|-----|-------------------------------|------------|
| 1 | ISSUED FOR DESIGN DEVELOPMENT | 2024-03-01 |
| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2024-03-21 |
| 3 | ISSUED FOR PERMIT | 2024-09-06 |
| 4 | ISSUED FOR ESA | 2024-10-21 |
| 5 | ISSUED FOR 100% CD | 2024-11-05 |
| 6 | ISSUED FOR TENDER | 2024-11-15 |

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UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

TITLE
MECHANICAL SCHEDULE

THEHIDIGROUP
155 Gordon Baker Road, Suite 200
Toronto, ON M2H 3N5 Canada
T. 416 364 2100 | HIDI.com



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SCALE: N.T.S. SHEET NO: E701
DATE: FEB 2024
PROJECT NO: 2023-0059
DRAWN BY: MP
CHECKED BY: AT

UTM-PRE ENGINEERED BUILDING

Lighting Fixture Schedule
Project No.: 2023-0059
Issued For



| Type | Luminaire Description | Lamp & Wattage | Control Protocol | Input voltage | Finish | Mounting | Location | Manufacturer & Catalogue # | Notes |
|---------------------------|--|--|------------------|---------------|--|--------------------|---|--|--|
| LD1 | NOMINAL 3" DIA. RECESSED ADJUSTABLE DOWNLIGHT. | 8W, 800LMNS, 3500K, 90CRI, LED | 0-10V | 120V | ARCHITECT TO SELECT FROM STANDARD FINISHES | RECESSED | VESTIBULE & CORRIDOR | ACULUX: INITIA INIT3 INIT3 A-08LM-35K-90CRI-X-EZ1-120-X OR APPROVED EQUAL | |
| LD2 | NOMINAL 3" DIA. RECESSED DOWNLIGHT. | 8W, 800LMNS, 3500K, 90CRI, LED | 0-10V | 120V | ARCHITECT TO SELECT FROM STANDARD FINISHES | RECESSED | WASHROOMS | ACULUX: INITIA INIT3 INIT3 D-08LM-35K-90CRI-X-EZ1-120-X OR APPROVED EQUAL | |
| LR3 | 2'X2' LED FLAT PANEL | 45W, 4800LMNS, 4000K, 80CRI, LED | 0-10V | 120V | ARCHITECT TO SELECT FROM STANDARD FINISHES | SUSPENDED | DRONE REASERCH LAB | LITHONIA LIGHTING: EPANL LED EPANL-2X2-4800LM-80CRI-40K-MIN10-ZT OR APPROVED EQUAL | |
| LS1 | 4FT LENGTH DIRECT LED LINEAR FIXTURE | 9.7WFT, 1075LMNS/FT, 4000K, 90CRI, LED | 0-10V | 120V | ARCHITECT TO SELECT FROM STANDARD FINISHES | SUSPENDED | CLASSROOMS, CORRIDOR, LOUNGE & MULTIPURPOSE SPACE | A LIGHT: ACL2ST - ACCOLED ACL2ST-4-DLH-40-90CRI-U-X-HE-X OR APPROVED EQUAL | |
| LS1a | 4FT LENGTH DIRECT LED LINEAR TYPE | 4.8WFT, 443LMNS/FT, 3500K, 90CRI LED | 0-10V | 120V | ARCHITECT TO SELECT FROM STANDARD FINISHES | SURFACE WALL | WASHROOM | A LIGHT: ACL2ST - EAQL2ST-4-DLS-35-90CRI-U-DL-R-x-D OR APPROVED EQUAL | |
| LS2 | 4FT/8FT LENGTH VAPOR-TIGHT FEM LED LUMINARE | 50W, 8000LMNS, 4000K, 90CRI, LED | 0-10V | 120V | ARCHITECT TO SELECT FROM STANDARD FINISHES | SUSPENDED /SURFACE | GARAGES, LAB & TEACHING LAB | LITHONIA LIGHTING: FEM LED FEM-L48-8000LM-X-MD-120-GZ10-40K-90CRI FEM-L96-8000LM-X-MD-120-GZ10-40K-90CRI OR APPROVED EQUAL | |
| LS3 | 4FT LENGTH SURFACE MOUNT LED STRIP LUMINARE | 35.3W, 4000LMNS, 4000K, 80CRI, LED | 0-10V | 120V | ARCHITECT TO SELECT FROM STANDARD FINISHES | SUSPENDED /SURFACE | SERVICE ROOMS | LITHONIA LIGHTING: CSS CSS-L48-4000LM-MVOLT-40K-80CRI OR APPROVED EQUAL | |
| | DOUBLE REMOTE HEAD | 5WLED | NON-DIM | 24V | N/A | WALL/CEILING | VARIOUS | BELLUCE CANADA: NOVA SERIES CAT# SR-2-24V-5WLED OR APPROVED EQUAL | |
| BU W/ REMOTE HEADS | BATTERY UNIT WITH REMOTE DOUBLE HEADS | 96W LED | NON-DIM | 120V | N/A | WALL/CEILING | VARIOUS | BELLUCE CANADA: NOVA SERIES CAT# NV-24-X-2SR-X-120V OR APPROVED EQUAL | 30 MIN RUNTIME UNDER FULL LOAD WITH 20% SPARE CAPACITY |
| X1 | DIE-CAST ALUMINUM PICTOGRAM EDGE-LIT EXIT SIGN | 3.5W LED | NON-DIM | 120V | N/A | WALL/CEILING | Exit Signs | AIM LIGHT - RPFL SERIES | UTM STANDARD |

01 LIGHTING SCHEDULE
E702 NTS

| FLOOR BOX SCHEDULE | | | | | |
|--------------------|----------|-----------------------|--|------------------------------|---|
| Floor Box Type | No Gangs | Gang Use | Size | Location | Manufacturer & Accessories Product # |
| FB1 | 4 | 1-Power, 1-Data, 2-AV | 17-3/4" length x 11-15/16" width x 2-1/2" height | AV Grad. Office, Flex Office | Legrand Wiremold CAT #RFB4R25OG (1) RFBADCE20TR - 20A Receptacle (3) RFBADCE - For Comms & AV Device |
| FB2 | 10 | 2-Power, 2-Data, 4-AV | 15-7/8" length x 10-5/8" width x 5-1/2" height | Forensic Teaching Classroom | Legrand Wiremold RFB410R55OG (1) RFB410-2G - 2 Gang Adapter Plate (2) RFBADCE20TR - 20A Receptacle (6) RFBADCE - For Comms & AV Device |
| FB3 | 6 | 4-Power, 1-Data | 16-1/4" length x 10-3/8" width x 3" height | Multipurpose Space | Legrand Wiremold RFB46R30OG (4) RFBADCE20TR - 20A Receptacle (1) RFBADCE - For Comms Device |
| FB4 | 10 | 4-Power, 1-Data, 2-AV | 15-7/8" length x 10-5/8" width x 5-1/2" height | Multipurpose Space | Legrand Wiremold RFB410R55OG (2) RFB410-2G - 2 Gang Adapter Plate (4) RFBADCE20TR - 20A Receptacle (3) RFBADCE - For Comms & AV Device |

NOTES:
1. THIS CONTRACTOR TO PROVIDE RECESSED (FLUSH MOUNTED) FLOOR BOX LEGRAND. RFB SERIES SUITABLE FOR SLAB ON GRADE APPLICATION AS INDICATED ABOVE. BOX SIZE TO ACCOMMODATE # OF OPENINGS, OUTLETS AND NETWORK DROPS INDICATED ABOVE.
2. COVER FINISHES TO BE SELECTED AT THE TIME OF SHOP DRAWINGS REVIEW BY ARCHITECT.

02 FLOOR BOX SCHEDULE
E702 NTS

| No. | ISSUANCE | DATE |
|-----|-------------------------------|------------|
| 1 | ISSUED FOR DESIGN DEVELOPMENT | 2024-03-01 |
| 2 | ISSUED FOR DESIGN DEVELOPMENT | 2024-03-21 |
| 3 | ISSUED FOR PERMIT | 2024-09-06 |
| 4 | ISSUED FOR ESA | 2024-10-21 |
| 5 | ISSUED FOR TENDER | 2024-11-05 |
| 6 | ISSUED FOR 100% CD | 2024-11-05 |
| 7 | ISSUED FOR TENDER | 2024-11-15 |

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CLIENT
UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

TITLE
LIGHTING & FLOOR BOX SCHEDULE



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DATE: FEB 2024
PROJECT NO: 2023-0059
DRAWN BY: MP
CHECKED BY: AT

| FIRE ALARM SCHEDULE | | | | | | | | | | | | | | | | | | |
|---------------------|---|-------------------|-----------------------------|-----------------------|----------------------------|-----------------------|--------------------|---------------------|----------------------|--------------------|--------------------|------------------|------------------|--------------|----------------------------|--------------------------|------------------------|--|
| ZONE # | ZONE DESCRIPTION | PULL STATION (FZ) | HEAT OR SMOKE DETECTOR (FZ) | SUPERVISED VALVE (SZ) | SPRINKLER FLOW SWITCH (FZ) | LOSS OF PRESSURE (SZ) | DUCT DETECTOR (FZ) | STARTUP SIGNAL (CZ) | SHUTDOWN SIGNAL (CZ) | STROBE CCT. A (HZ) | STROBE CCT. B (HZ) | HORN CCT. 1 (BZ) | HORN CCT. 2 (BZ) | HANDSET (PZ) | FIRE ALARM CONNECTION (CZ) | AUX. SYSTEM TROUBLE (SZ) | AUX. SYSTEM ALARM (FZ) | REMARKS |
| 1 | GROUND | * | * | | | | | | | * | * | * | * | | | | | |
| 2 | MEZZANINE | | * | | | | | | | * | * | * | * | | | | | |
| 3 | SV-1 DOUBLE CHECK VALVE ASSEMBLY IN | | | * | | | | | | | | | | | | | | |
| 4 | SV-2 DOUBLE CHECK VALVE ASSEMBLY OUT | | | * | | | | | | | | | | | | | | |
| 5 | SV-3 SHUT - OFF VALVE DCVA TEST | | | * | | | | | | | | | | | | | | |
| 6 | SV-4 MAIN SHUT - OFF SPRINKLER HEADER | | | * | | | | | | | | | | | | | | |
| 7 | SV-FG WET SPR. SYSTEM ISOLATION (GROUND & MEZZ FLOOR) | | | * | | | | | | | | | | | | | | |
| 8 | SV-PA PREACTION SPR. SYSTEM ISOLATION (GROUND FLOOR) | | | * | | | | | | | | | | | | | | |
| 9 | SV-W5 WINDOW SPR. SYSTEM ISOLATION (GROUND FLOOR) | | | * | | | | | | | | | | | | | | |
| 10 | LPS-1 LOW AIR PRESSURE GROUND LEVEL (PREACTION) | | | * | | | | | | | | | | | | | | |
| 11 | FS-FG WET SPR. SYSTEM FLOW SWITCH (GROUND & MEZZ FLOOR) | | | | * | | | | | | | | | | | | | |
| 12 | FS-PA PREACTION SPR. SYSTEM FLOW SWITCH | | | | * | | | | | | | | | | | | | |
| 13 | FS-W5 WINDOW SPR. SYSTEM FLOW SWITCH | | | | * | | | | | | | | | | | | | |
| 14 | PS-1 WATER FLOW PS GROUND LEVEL (PREACTION) | | | | * | | | | | | | | | | | | | |
| 15 | BAS COMMUNICATION (ALARM) | | | | | | | | | | | | | | * | | | |
| 16 | BAS COMMUNICATION (TROUBLE) | | | | | | | | | | | | | | * | | | |
| 17 | MUA-1 | | | | | | * | * | | | | | | | * | | | UNIT TO SHUTDOWN ONLY WHEN DUCT SMOKE DETECTOR ACTIVATES |
| 18 | AV RACK CREDENZA MULTIPURPOSE SPACE | | | | | | | | | | | | | | * | | | |
| 19 | AV RACK PODIUM FORENSIC CLASSROOM | | | | | | | | | | | | | | * | | | |
| | PROVIDE 20% SPARE CAPACITY | | | | | | | | | | | | | | | | | |

1 FIRE ALARM SCHEDULE
E703 N.T.S

| FIRE ALARM SEQUENCE OF OPERATION |
|--|
| <p>1.0. GENERAL</p> <p>1.1. REFER TO FLOOR PLANS FOR QUANTITY AND LOCATION OF DEVICES. PROVIDE ISOLATION MODULES NOT SHOWN TO MEET ULC524 REQUIREMENTS.</p> <p>1.2. ALL FIRE ALARM RISERS SHALL BE ULC LISTED 2 HOUR FIRE RATED CABLE.</p> <p>2.0. FIRE ALARM SYSTEM</p> <p>2.1. SYSTEM SHALL BE BY MIRCOP, CONVENTIONAL, SINGLE STAGE, CLASS A WIRING. PROVIDE ALL REQUIRED ACCESSORIES, INCLUDING RELAY MODULES, DACT/DIALER, ETC AS REQUIRED FOR A COMPLETE AND WORKING SYSTEM. SYSTEM SHALL BE INTEGRATED TO THE EXISTING NOTIFIER SYSTEM AT CENTRAL UTILITY PLANT (CUP) BUILDING.</p> <p>2.2. ALL ADJACENT FIRE ALARM NOTIFICATION DEVICES TO BE ON ALTERNATING CIRCUITS.</p> <p>2.3. PROVIDE THREE (3) NEW FIRE ALARM MONITORING MODULES AT CENTRAL UTILITY PLANT (CUP) BUILDING. MODULES SHALL BE COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM. MODULES TO BE CONFIGURED SUCH THAT AN ALARM, TROUBLE, OR SUPERVISORY FIRE ALARM PANEL CONDITION IN THE NEWLY CONSTRUCTED BUILDING WILL ANNUNCIATE AT THE CUP BUILDING FIRE ALARM PANEL.</p> <p>2.4. PROVIDE ALLOWANCE FOR ADDITION OF 10% ADDITIONAL DEVICES TO THE FIRE ALARM SYSTEM WITH ALL ASSOCIATED PROGRAMMING, TO BE AS DIRECTED BY AUTHORITIES HAVING JURISDICTION OR ENGINEER AT LATER DATE.</p> <p>2.5. PROVIDE AND ARRANGE FOR TELEPHONE CONNECTION OF FIRE ALARM SYSTEM TO LOCAL FIRE DEPARTMENT OR ULC LISTED MONITORING COMPANY.</p> <p>2.6. FIRE ALARM RISER WIRING BETWEEN THE FIRE ALARM PANEL AND THE FIRE ALARM ISOLATING MODULES ON EACH FLOOR SHALL BE ULC LISTED 2 HOUR FIRE RATED CABLE.</p> <p>3.0. SEQUENCE OF OPERATION</p> <p>3.1. ACTUATION OF ANY ALARM INITIATING DEVICE IN THIS BUILDING SHALL CAUSE THE FOLLOWING:</p> <p>3.1.1. TURN ON THE RESPECTIVE RED ALARM FOR THE ZONE LED AT THE CONTROL PANEL LOCATED IN THE ELECTRICAL ROOM AND ANNUNCIATOR PANEL LOCATED IN THE VESTIBULE AS INDICATED ON THE PLANS.</p> <p>3.1.2. TURN ON RED LED INDICATOR AND ALARM BUZZER TONE AT MAIN MONITORING PANEL AT CENTRAL UTILITY PLANT AND CAMPUS SAFETY FIRE ALARM PANELS.</p> <p>3.1.3. DISPLAY THE ACTIVATED DEVICE ON THE LCD DISPLAY AT THE MAIN FIRE ALARM CONTROL PANEL AND ALL FIRE ALARM REMOTE ANNUNCIATOR PANELS.</p> <p>3.1.4. A TEMPORAL PATTERN ALARM SIGNAL TONE SHALL OCCUR WITHIN THE CONTROL PANEL AND ANNUNCIATORS.</p> <p>3.1.5. CAUSE ALL AUDIBLE NOTIFICATION DEVICES TO SOUND CONTINUOUSLY WITH TEMPORAL PATTERN THROUGHOUT THE BUILDING UNTIL SILENCED.</p> <p>3.1.5.1. AFTER A PERIOD OF NOT MORE THAN 10 MINUTES, THE SILENCED AUDIBLE SIGNAL DEVICES WILL BE RESTORED TO CONTINUOUS AUDIBLE SIGNAL IF THE ALARM HAS NOT BEEN ACKNOWLEDGED.</p> <p>3.1.6. THE AUDIBLE NOTIFICATION DEVICES SHALL CONTINUE TO SOUND DURING ALARM CONDITIONS UNTIL MANUALLY OR AUTOMATICALLY SILENCED. THE MANUAL SILENCING VIA A SIGNAL SILENCE SWITCH ON THE FIRE ALARM SYSTEM CONTROL PANEL, SHALL BE INHIBITED DURING THE FIRST MINUTE OF ALARM.</p> <p>3.1.7. ACTIVATION OF A SUBSEQUENT ALARM INITIATING DEVICE SHALL REACTIVATE THE ALARM SIGNALS AFTER THEY HAVE EITHER TIMED OUT OR HAVE BEEN MANUALLY SILENCED.</p> <p>3.1.8. CAUSE ANY VISUAL NOTIFICATION DEVICE TO ACTIVATE. VISUAL SIGNALS MUST BE SYNCHRONIZED WITH THE AUDIBLE SIGNALS AND WITH ALL OTHER VISUAL SIGNAL DEVICES IN EACH FLOOR AREA.</p> <p>4.0. INTERLOCK TO MECHANICAL EQUIPMENT</p> <p>4.1. FRESH AIR UNITS</p> <p>4.1.1. UNLESS THE CORRESPONDING DUCT SMOKE DETECTOR IS ACTIVATED, THE FRESH AIR UNIT IS TO CONTINUE TO RUN DURING FIRE ALARM CONDITION. IMMEDIATELY SHUT DOWN FRESH AIR UNIT UPON ACTIVATION OF DUCT SMOKE DETECTOR.</p> <p>5.0. SIGNALS TO MONITORING STATION.</p> <p>5.1. PROVIDE PHONE LINE FOR REMOTE MONITORING SERVICE. REGISTER AND CONNECT TO REMOTE MONITORING SERVICE ON BEHALF OF OWNER.</p> <p>5.2. PROVIDE CONNECTIONS TO FIRE ALARM PANEL AT CENTRAL UTILITY PLANT (C.U.P.). FIRE ALARM PANEL AT C.U.P. SHALL DISPLAY TROUBLE INDICATIONS FOR ALARM TROUBLE OR SUPERVISORY AT THIS NEW FIRE ALARM PANEL.</p> <p>5.3. PROVIDE INDICATIONS AS PER 3.1.2. ABOVE.</p> <p>6.0. INTERLOCK TO AV EQUIPMENT.</p> <p>6.1. UPON ACTIVATION OF FIRE ALARM SYSTEM, SEND SIGNAL TO AV RACK IN CREDENZA (MULTIPURPOSE ROOM) AND PODIUM (TEACHING CLASSROOM) TO MUTE SOUND SYSTEM.</p> |

2 FIRE ALARM SEQUENCE OF OPERATION
E703 N.T.S

| No. | ISSUANCE | DATE |
|-----|--------------------|------------|
| 1 | ISSUED FOR PERMIT | 2024-09-06 |
| 2 | ISSUED FOR ESA | 2024-10-21 |
| 3 | ISSUED FOR TENDER | 2024-11-05 |
| 4 | ISSUED FOR 100% CD | 2024-11-05 |
| 5 | ISSUED FOR TENDER | 2024-11-15 |

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PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

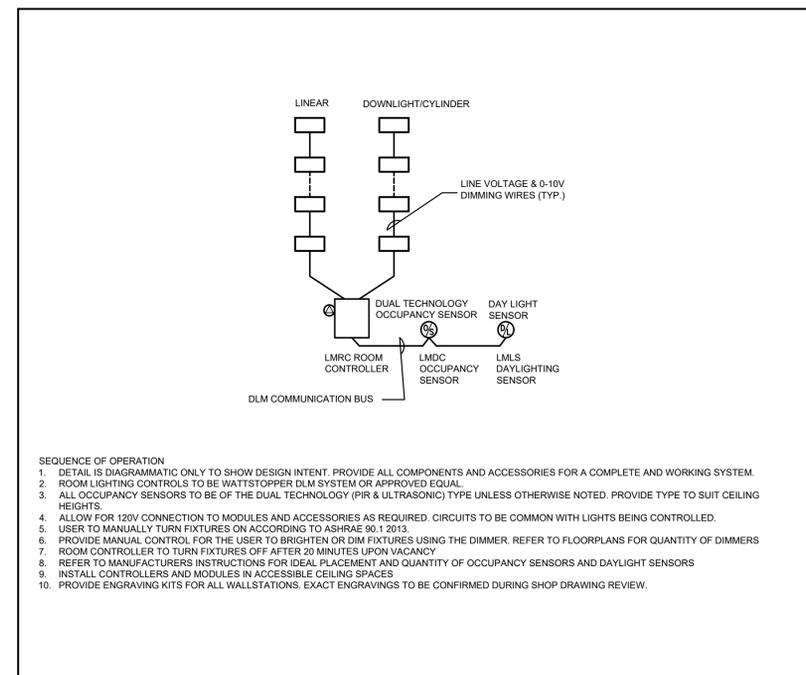
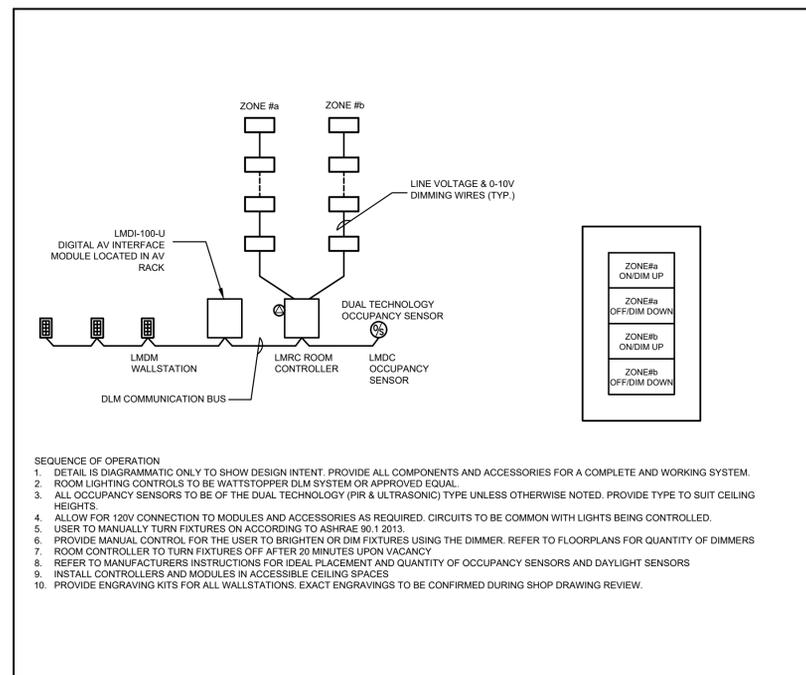
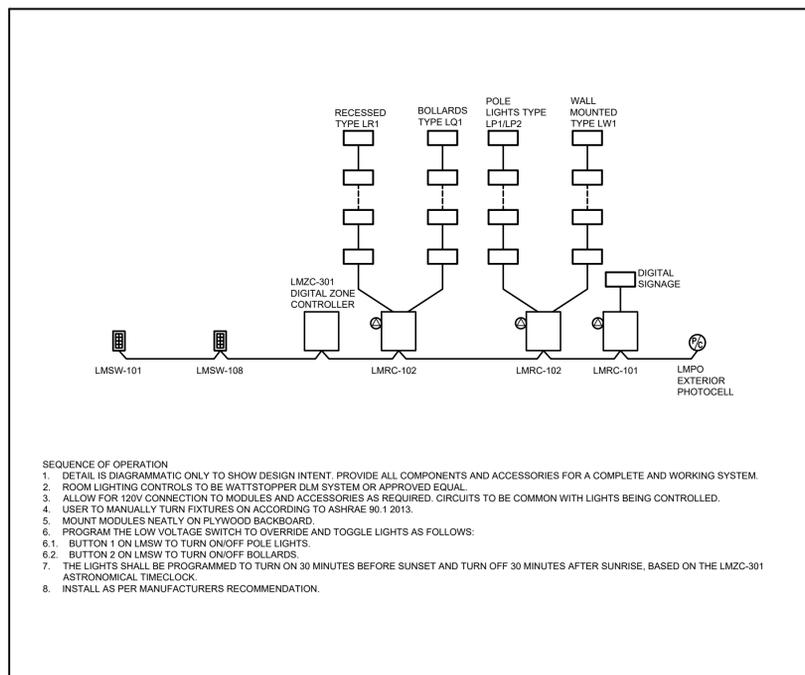
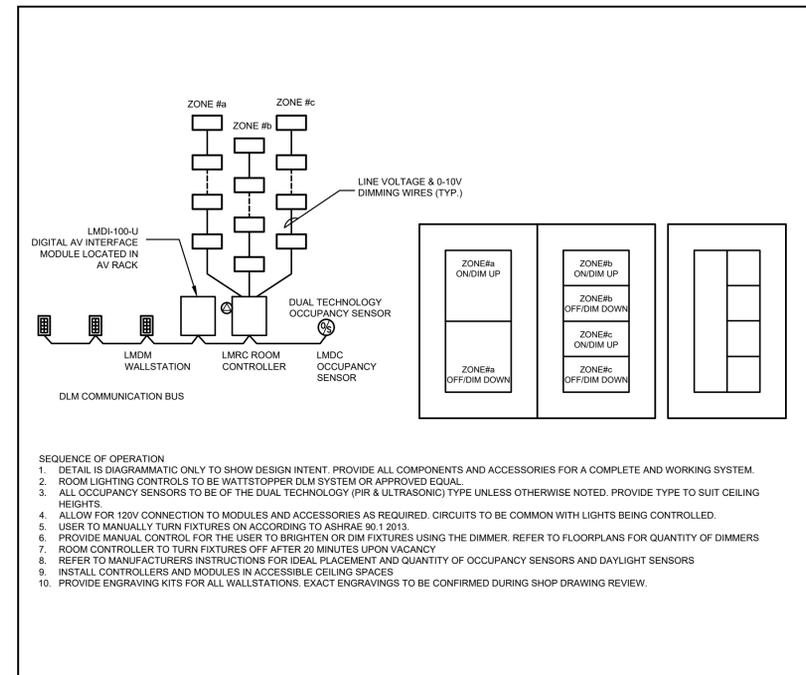
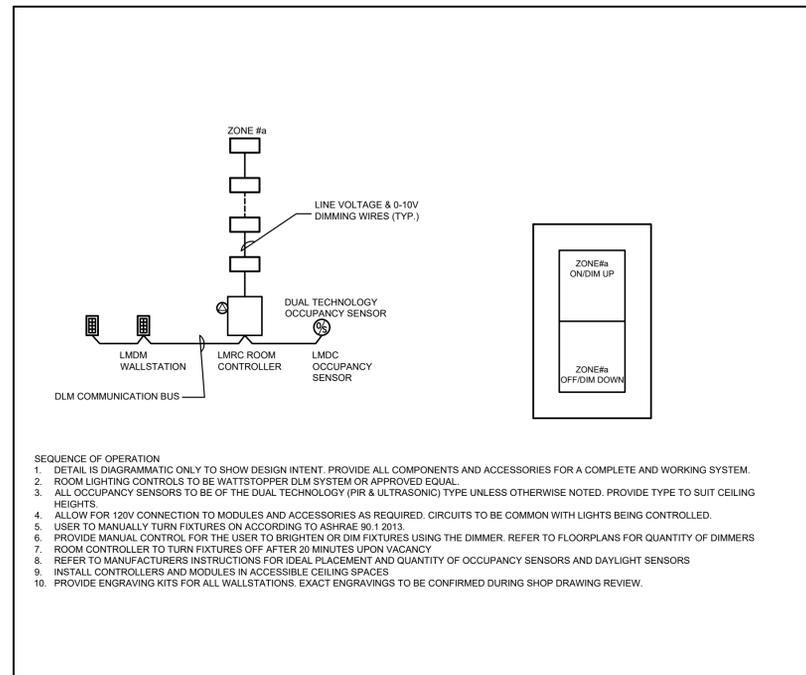
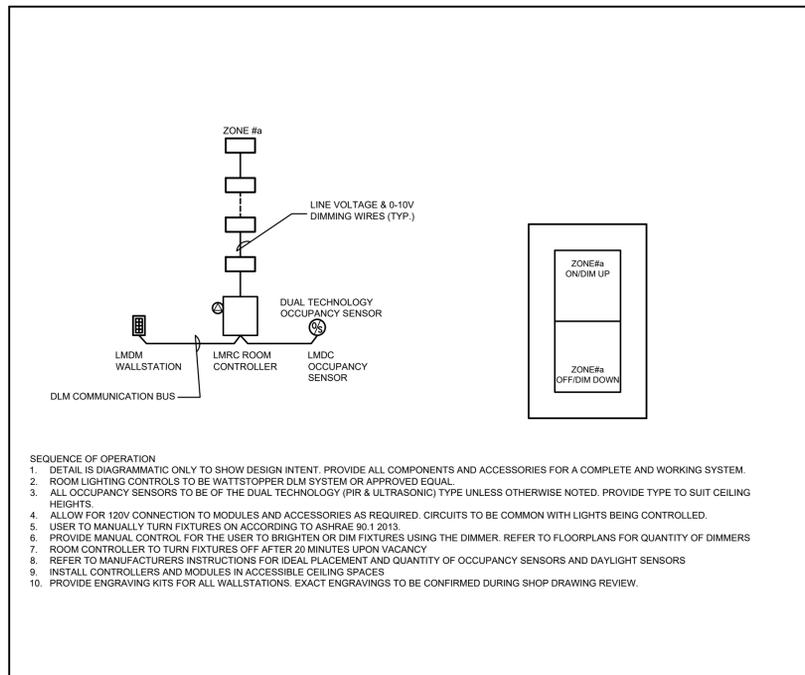
TITLE
FIRE ALARM SCHEDULE

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Toronto, ON M2H 3N5 Canada
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PROJECT NO: 2023-0059
DRAWN BY: MP
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| 1 | ISSUED FOR ESA | 2024-10-21 |
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| 3 | ISSUED FOR TENDER | 2024-11-15 |

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TITLE
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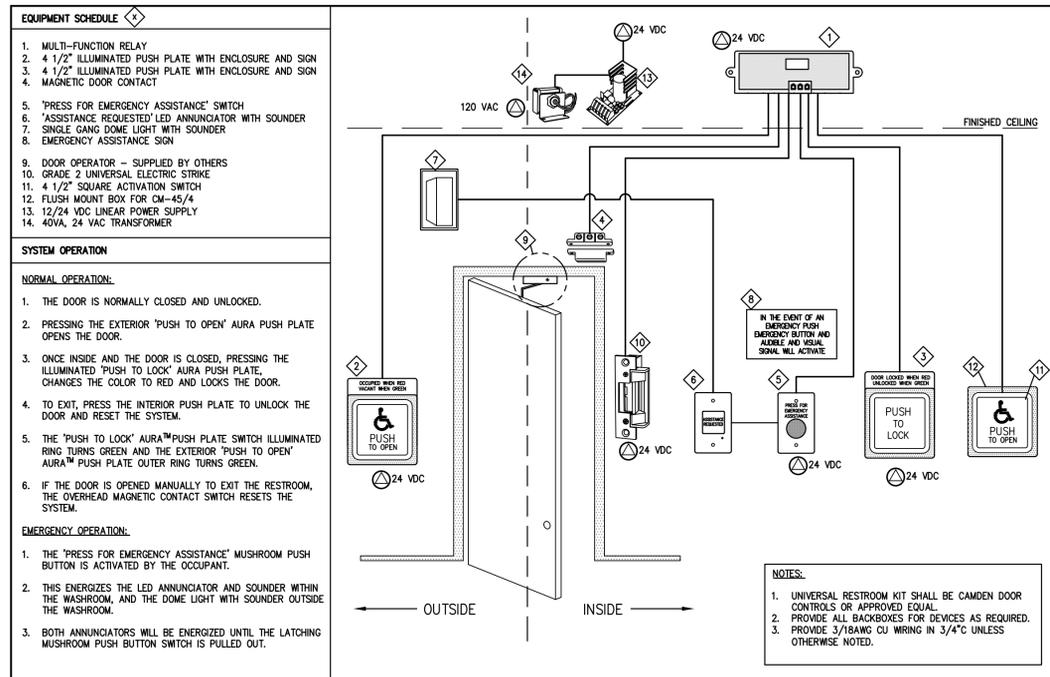
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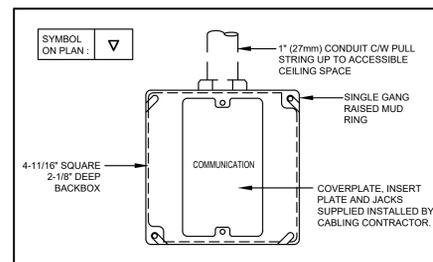
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| PROJECT NO : 2023-0059 | |
| DRAWN BY : MP | |
| CHECKED BY : AT | |

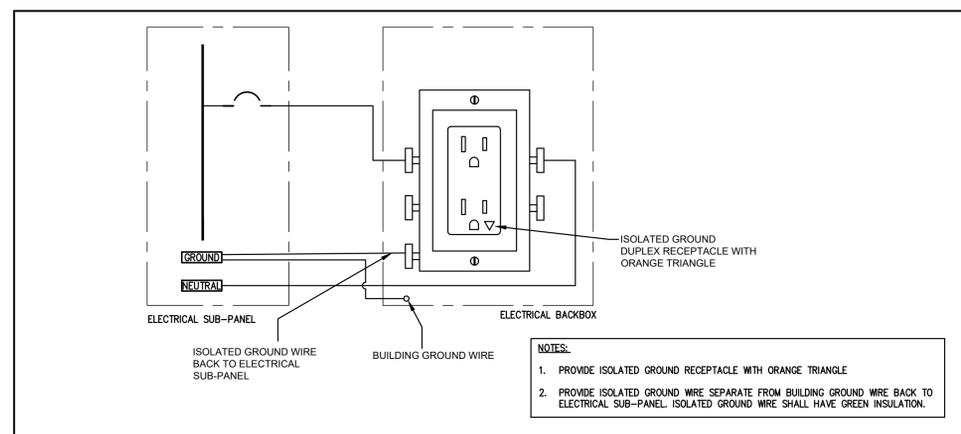
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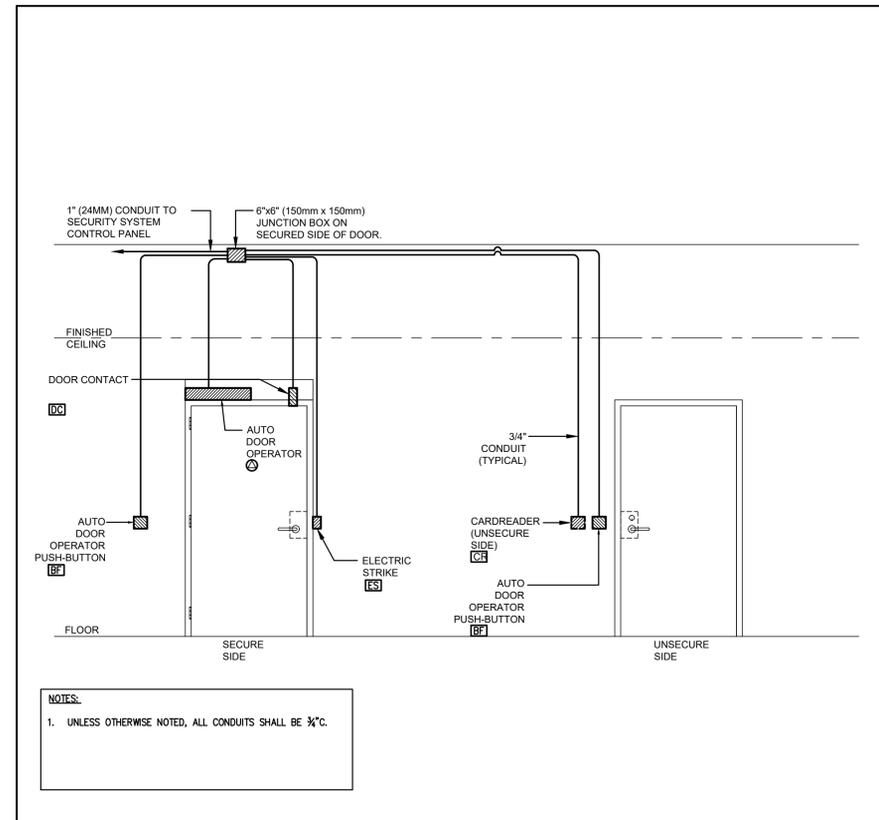
1 UNIVERSAL RESTROOM KIT
E-802 SCALE: NTS



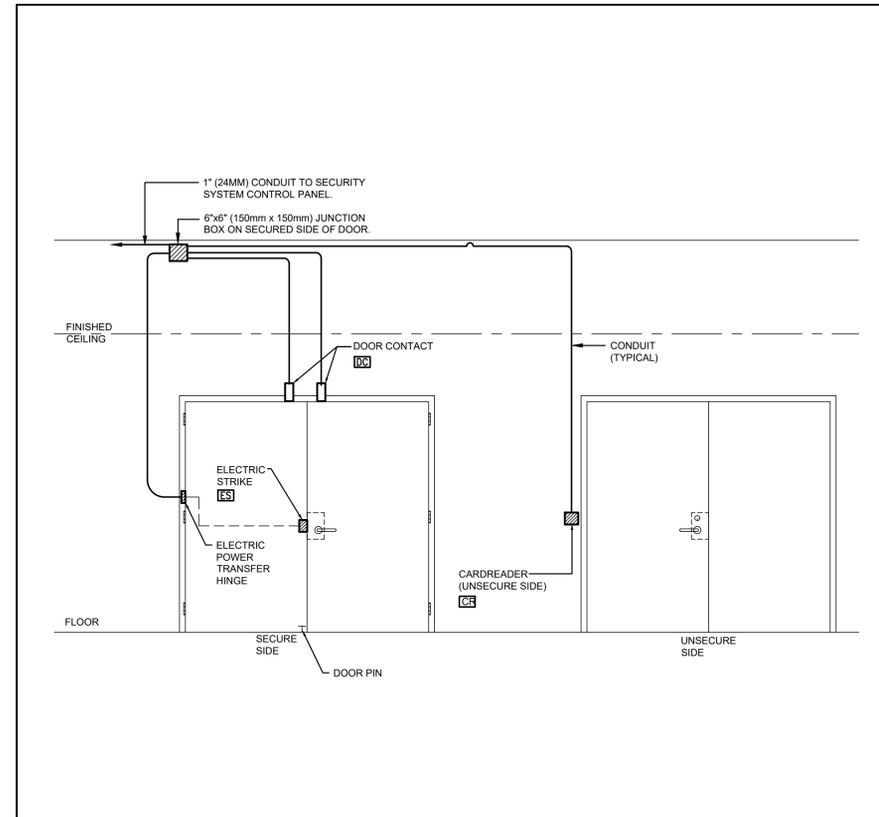
04 SINGLE COMMUNICATION WALL OUTLET
E-802 SCALE: NTS



05 ISOLATED GROUND RECEPTACLE
E-802 SCALE: NTS



02 TYPICAL SINGLE DOOR WITH ELECTRIC STRIKE
E-802 N.T.S.



03 TYPICAL DOUBLE DOOR WITH ELECTRIC STRIKE
E-802 N.T.S.

| No. | ISSUANCE | DATE |
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| 1 | ISSUED FOR PERMIT | 2024-09-06 |
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3359 MISSISSAUGA ROAD

TITLE
ELECTRICAL DETAILS I

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| PROJECT NO : 2023-0059 | |
| DRAWN BY : MP | |
| CHECKED BY : AT | |

PROJECT NOTES

1. DEVICE LOCATIONS INDICATED ON DRAWINGS ARE APPROXIMATE. COORDINATE FINAL INSTALLATION LOCATIONS AND DETAILS WITH THE ARCHITECT/INTERIOR DESIGNER. REFER TO ARCHITECTURAL DRAWINGS AND REVIEW SITE CONDITIONS FOR INSTALLATION REQUIREMENTS. COORDINATE FINAL DEVICE LOCATIONS TO SUIT SITE CONDITIONS.
2. CONTRACTOR IS RESPONSIBLE FOR REVIEWING ARCHITECTURAL, ELECTRICAL, SECURITY, AND AUDIOVISUAL DRAWINGS.
3. ARCHITECTURAL PLAN DRAWING BACKGROUNDS ARE FOR REFERENCE ONLY. REFER TO PROJECT ARCHITECTURAL DRAWINGS AND SITE CONDITIONS. SITE MEASURE FOR EXACT DIMENSIONS AND INSTALLATION REQUIREMENTS.
4. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE TELECOMMUNICATIONS SPECIFICATIONS.
5. PROVIDE ALL MOUNTS, BACK BOXES, ADAPTERS, FACEPLATES, BEZELS, TRIM, ETC. UNLESS OTHERWISE NOTED.
6. ALL SLAB AND WALL PENETRATIONS TO BE FIRE-STOPPED AS REQUIRED TO MAINTAIN FIRE RATING OF SLAB OR WALL. FIRE STOPPING MATERIAL SHALL BE A TYPE THAT WILL FACILITATE FUTURE MOVES, ADDS, AND CHANGES. OBTAIN APPROVAL FROM THE GC OR OWNER.
7. PROVIDE COMPLETE SHOP DRAWINGS WITH PRODUCT NUMBERS/FINISHES HIGHLIGHTED, AND DETAILS FOR ALL PROPOSED INSTALLATIONS. OBTAIN ARCHITECT/INTERIOR DESIGNER APPROVAL FOR ALL INSTALLATIONS.
8. COORDINATE ALL INSTALLATIONS AND WORK. OBTAIN ALL NECESSARY APPROVALS AND PERMITS.
9. PROVIDE ALL INSTALLATIONS IN COMPLIANCE WITH APPLICABLE CODES AND SITE INSTALLATION STANDARDS AND GUIDELINES.
10. OBTAIN ARCHITECT'S/INTERIOR DESIGNER'S APPROVAL FOR INSTALLATION OF ALL DEVICES AND COMPONENTS (THIS INCLUDES COLOUR AND FINISHES).
11. NOTIFY THE ARCHITECT/INTERIOR DESIGNER AND ICT CONSULTANT OF ANY DRAWING DISCREPANCIES.
12. DO NOT COPY OR DISTRIBUTE THESE TELECOMMUNICATIONS DRAWINGS. UNAUTHORIZED DISTRIBUTION OF ANY PORTION OF THESE DRAWINGS, ELECTRONIC OR PAPER IS PROHIBITED.

ACRONYMS & ABBREVIATIONS

MANY OF THE ACRONYMS AND ABBREVIATIONS BELOW ARE USED IN COMBINATION WITH THE SYMBOLS IN THE TELECOMMUNICATIONS LEGEND TO REFERENCE A SPECIFIC SCOPE OF WORK DESCRIBED IN THE DETAIL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THOROUGHLY ALL DETAILS FOR FURTHER GUIDANCE AND EXPECTATIONS ON SCOPE OF WORK.

| | | | |
|-------|---|--------|--|
| AFF | ABOVE FINISHED FLOOR | PB | PULLBOX |
| AFG | ABOVE FINISHED GRADE | PBB | PRIMARY BONDING BUSBAR |
| AP | ACCESS PROVIDER | PBX | PRIVATE BRANCH EXCHANGE |
| BAS | BUILDING AUTOMATION SYSTEM | POP | POINT OF PRESENCE |
| BFC | BELOW FINISHED CEILING | PR | PAIR |
| CCTV | CLOSED-CIRCUIT TELEVISION (CABLE FOR SECURITY CAMERA) | R | TO BE REMOVED / RELOCATED |
| CLG | CEILING | RBP | ROOM BOOKING PANEL |
| CP | CONSOLIDATION POINT | RE/RE | REMOVE & RE-INSTALL |
| CRO | CORROSION-RESISTANT OUTLET | RF | RADIO FREQUENCY |
| DS | DIGITAL SIGNAGE | RL | DEVICE OR OUTLET/CABLE IN RELOCATED POSITION |
| EF | ENTRANCE FACILITY | RMC | RIGID METALLIC CONDUIT |
| EMT | ELECTRICAL METALLIC TUBING | RU / U | RACK UNIT (RACK MOUNTING UNIT) |
| ENT | ELECTRICAL NON-METALLIC TUBING | SBB | SECONDARY BONDING BUSBAR |
| ESS | ELECTRONIC SAFETY AND SECURITY | SEC | SECURITY |
| F/UTP | FOILED, UNSHIELDED TWISTED PAIR | SMF | SINGLE-MODE FIBRE |
| Ex | EXISTING TO REMAIN | SR | SURFACE RACEWAY |
| GND | GROUND | STP | SHIELDED TWISTED PAIR |
| IC | INTERCOM | TEMP | TEMPORARY |
| ICT | INFORMATION AND COMMUNICATIONS TECHNOLOGY | TR | TELECOMMUNICATIONS ROOM |
| IDF | INTERMEDIATE DISTRIBUTION FRAME | TSER | TELECOMMUNICATIONS SERVICE ENTRANCE ROOM |
| ISP | INTERNET SERVICE PROVIDER | TYP | TYPICAL |
| JB | JUNCTION BOX | UPS | UNINTERRUPTIBLE POWER SUPPLY |
| LAN | LOCAL-AREA NETWORK | U/S | UNDERSIDE |
| LOC | LOCATION | UTP | UNSHIELDED TWISTED PAIR |
| MC | MAIN CROSS-CONNECT | WAN | WIRE-AREA NETWORK |
| MCR | MAIN COMPUTER ROOM | WAP | WIRELESS ACCESS POINT |
| MDF | MAIN DISTRIBUTION FRAME | WP | WALL PHONE |
| MH | MAINTENANCE HOLE | WPO | WEATHERPROOF OUTLET |
| MPTL | MODULAR PLUG TERMINATED LINK | WW | WIREWAY |
| MMF | MULTI-MODE FIBRE | | |
| OFE | OWNER-FURNISHED EQUIPMENT | | |

TELECOMMUNICATIONS DRAWING LIST

| | |
|-------|--|
| T-001 | LEGEND, DRAWING LIST AND PROJECT NOTES |
| T-002 | SPECIFICATIONS |
| T-101 | SITE PLAN |
| T-201 | GROUND FLOOR AND PARTIAL MEZZANINE TELECOM LAYOUTS |
| T-301 | HUB ROOM LAYOUT AND ELEVATION |
| T-401 | DETAILS |

TELECOMMUNICATIONS LEGEND

ALL SYMBOLS IN THIS LEGEND REPRESENT THE COMPLETE, END-TO-END INSTALLATION OF COMMUNICATIONS CABLES; TERMINATED, LABELLED, AND TESTED.
 THIS INSTALLATION INCLUDES TERMINATION AT A PATCH PANEL OR BACKBOARD WITHIN THE NEAREST TELECOMMUNICATIONS ROOM/ENCLOSURE, TO THE TERMINATION AT THE SERVICE AREA OUTLET LOCATION IDENTIFIED ON THE FLOORPLANS.
 CONTRACTOR SHALL REVIEW THOROUGHLY ALL TELECOMMUNICATIONS SPECIFICATIONS AND DRAWINGS FOR FURTHER INSTRUCTION ON TERMINATION REQUIREMENTS AND SCOPE OF WORK ASSOCIATED WITH THE SYMBOLS FOUND IN THIS LEGEND.

COPPER LEGEND

| OUTLET TYPE | MOUNT TYPE | |
|---------------------|------------|---|
| DATA / NETWORK 'A' | | |
| ▽ | WALL | COMMUNICATIONS CABLE(S) DESIGNATED FOR DATA OR NETWORK 'A'. QUANTITIES OF CABLES EXCEEDING ONE (1) PER POSITION ARE INDICATED BY MULTIPLES OF STACKED SYMBOLS AS OUTLINED BELOW. SEE SPECIFICATIONS FOR CABLE/CONNECTOR TYPES, FINISHES, AND LABELLING REQUIREMENTS. |
| ⊞ | FLOOR | ▽ = ONE (1) COMMUNICATIONS CABLE IN A SINGLE ADAPTER/FACEPLATE |
| ⊞ | CEILING | ▽ = TWO (2) COMMUNICATIONS CABLES IN A SINGLE ADAPTER/FACEPLATE |
| ▽ | FURNITURE | ▽ = THREE (3) COMMUNICATIONS CABLES IN A SINGLE ADAPTER/FACEPLATE |
| VOICE / NETWORK 'B' | | |
| ▽ | WALL | COMMUNICATIONS CABLE(S) DESIGNATED FOR VOICE OR NETWORK 'B'. QUANTITIES OF CABLES EXCEEDING ONE (1) PER POSITION ARE INDICATED BY MULTIPLES OF STACKED SYMBOLS AS DEMONSTRATED ABOVE. SEE SPECIFICATIONS FOR CABLE/CONNECTOR TYPES, FINISHES, AND LABELLING REQUIREMENTS. |
| ⊞ | FLOOR | |
| ⊞ | CEILING | |
| ▽ | FURNITURE | |

DATA & VOICE / NETWORK 'A' & NETWORK 'B'

| OUTLET TYPE | MOUNT TYPE | |
|-------------|------------|--|
| ▽ | WALL | |
| ⊞ | FLOOR | |
| ⊞ | CEILING | |
| ▽ | FURNITURE | |

DATA & VOICE / NETWORK 'A' & NETWORK 'B'

| OUTLET TYPE | MOUNT TYPE | |
|-------------|------------|--|
| ▽ | WALL | |
| ⊞ | FLOOR | |
| ⊞ | CEILING | |
| ▽ | FURNITURE | |

FIBRE LEGEND

| OUTLET TYPE | MOUNT TYPE | |
|-------------|------------|---|
| FIBRE | | |
| ▽ | WALL | SMF/MMF COMMUNICATIONS CABLE(S). EACH SYMBOL REPRESENTS TWO (2) STRANDS FOR DUPLEX CONNECTIONS. SEE SPECIFICATIONS FOR CABLE, CONNECTOR/POLISH/TERMINATION TYPES, AND LABELLING REQUIREMENTS. |
| ⊞ | FLOOR | |
| ⊞ | CEILING | |
| ▽ | FURNITURE | |

MISC. LEGEND

| FEED | FEED TYPE |
|------|--|
| ⊞ | POWER & COMMUNICATIONS SERVICE POLE (BY DIV. 26) |
| ⊞ | POWER & COMMUNICATIONS SERVICE POLE WITH SYSTEMS FURNITURE FEED (BY DIV. 26) |
| ⊞ | WALL OR COLUMN FEED TO SYSTEMS FURNITURE (BY DIV. 26) |
| ⊞ | FLOOR FEED TO SYSTEMS FURNITURE (BY DIV. 26) |
| ○ | DRAWING NUMBER / DETAIL CALLOUT |
| — | SURFACE RACEWAY (BY DIV. 26) |

| No. | ISSUANCE | DATE |
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| 1 | ISSUED FOR 50% CD | 2024-09-06 |
| 2 | ISSUED FOR PROGRESS | 2024-10-15 |
| 3 | ISSUED FOR 100% CD | 2024-11-05 |
| 4 | ISSUED FOR TENDER | 2024-11-15 |

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CLIENT LOGO

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 UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT
 PRE-ENGINEERED BUILDING
 3359 MISSISSAUGA ROAD

TITLE
 LEGEND, DRAWING LIST AND NOTES

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UNIT PRICES

UNIT PRICING – CONTRACTOR SHALL SUBMIT ADD AND DELETE PRICES FOR THE FOLLOWING ITEMS AT TIME OF BID.

COPPER HORIZONTAL CABLING:

- 1. CATEGORY 6A FT6 HORIZONTAL CABLE: SUPPLY AND INSTALL ONE (1) CABLE END TO END, LABELED, TERMINATED, AND TESTED (BASED ON AN AVERAGE LENGTH OF 200 FEET)
2. CATEGORY 6A FT6 HORIZONTAL CABLES: SUPPLY AND INSTALL TWO (2) CABLES END TO END, LABELED, TERMINATED, AND TESTED (BASED ON AN AVERAGE LENGTH OF 200 FEET)
3. CATEGORY 6A FT6 HORIZONTAL CABLES: SUPPLY AND INSTALL THREE (3) CABLES END TO END, LABELED, TERMINATED, AND TESTED (BASED ON AN AVERAGE LENGTH OF 200 FEET)
4. CATEGORY 6A FT6 HORIZONTAL CABLES: SUPPLY AND INSTALL FOUR (4) CABLES END TO END, LABELED, TERMINATED, AND TESTED (BASED ON AN AVERAGE LENGTH OF 200 FEET)

COPPER CABLE TERMINATION:

- 1. SUPPLY AND INSTALL ONE (1) 1U 24-PORT MODULAR PATCH PANEL
2. SUPPLY AND INSTALL ONE (1) 2U 48-PORT MODULAR PATCH PANEL

PATCH CABLES:

- 1. SUPPLY ONE (1) 1.2m CATEGORY 6A PATCH CABLE (28 AWG)
2. SUPPLY ONE (1) 2.1m CATEGORY 6A PATCH CABLE (28 AWG)
3. SUPPLY ONE (1) 3m CATEGORY 6A PATCH CABLE (28 AWG)
4. SUPPLY ONE (1) 7-FOOT OS2 UPC LC-TO-LC PATCH CABLE

WAPs:

- 1. INSTALL ONE (1) CLIENT-SUPPLIED WAP AND MOUNTING BRACKET

END OF RFQ

SPECIFICATIONS

27 00 00 GENERAL SPECIFICATIONS AND REQUIREMENTS FOR COMMUNICATIONS

- 1. GENERAL
a. THIS DOCUMENT SPECIFIES THE USE OF AN CAT6A/FT6 COPPER END TO END STRUCTURED CABLING PLATFORM AS MANUFACTURED AND WARRANTED BY PANDUIT OR BELDEN; NO SUBSTITUTIONS ARE PERMITTED.
b. THIS DOCUMENT SPECIFIES THE USE OF AN OS2 FT4/FT6 FIBRE OPTICAL END TO END STRUCTURED CABLING PLATFORM AS MANUFACTURED AND WARRANTED BY CORNING; NO SUBSTITUTIONS ARE PERMITTED.
c. ALL COMMUNICATIONS PRODUCT FOR THIS INSTALLATION SHALL BE NEW UNUSED UNLESS OTHERWISE DESCRIBED IN THESE DOCUMENTS.
d. CONTRACTOR MUST BE A CERTIFIED INSTALLER OF THE PROPOSED SOLUTION AND CAPABLE OF PROVIDING THE WARRANTY ON MATERIALS AND LABOUR DIRECTLY FROM THE PROPOSED CABLING SYSTEM SOLUTION MANUFACTURER.
e. CERTIFICATION BY THIRD PARTY OR ANY OTHER MEANS IS NOT ACCEPTABLE.
f. THE CONTRACTOR SHALL SUPPLY A MINIMUM 20 YEAR MANUFACTURER WARRANTY.
g. CONTRACTOR SHALL SUBMIT THEIR CERTIFICATION DOCUMENTS FOR THEIR PROPOSED SOLUTION AT TIME OF BID.
h. CONTRACTOR MUST IDENTIFY ALL PRODUCTS WITH THEIR BIDS INCLUDING MANUFACTURER AND PART NUMBERS.
i. CONTRACTOR IS RESPONSIBLE FOR READING ALL TELECOMMUNICATIONS DRAWINGS AS WELL AS ELECTRICAL AND ARCHITECTURAL DRAWINGS.
j. CONTRACTOR IS OBLIGED TO CONTACT THE TELECOMMUNICATIONS DESIGNER FOR ANY CLARIFICATION ON SCOPE, MATERIALS, AND ANY DISCREPANCIES ENCOUNTERED ON THE PROJECT.
k. CONTRACTOR SHALL CONFIRM ALL DIMENSIONS AND CLEARANCES PRIOR TO ORDERING AND INSTALLING EQUIPMENT.
l. REFER TO THE ARCHITECTURAL/INTERIOR DESIGNER'S DRAWINGS FOR EXACT LOCATIONS, DIMENSIONS, MOUNTING HEIGHTS, AND FINISHES OF DEVICES PRIOR TO COMMENCEMENT OF WORK. WHERE DISCREPANCIES OCCUR, CONTRACTOR TO CONFIRM WITH ARCHITECT, INTERIOR DESIGNER, AND/OR CONSULTANT PRIOR TO COMMENCEMENT OF WORK.
m. ANY NETWORK EQUIPMENT IS TO BE PROVIDED AND INSTALLED BY THE CLIENT UNLESS SPECIFICALLY NOTED OTHERWISE.
n. ANY COST INCURRED BY FAILING THE POINTS STATED ABOVE WILL HAVE TO BE COVERED BY THE CONTRACTOR.
o. CONTRACTOR SHALL REVIEW IN-TANDEM WITH THESE DRAWINGS AND SPECIFICATIONS THE UTM COMMUNICATION CABLING STANDARDS R3.1. IF ANY DISCREPANCIES OCCUR BETWEEN THESE DOCUMENTS, THE UTM STANDARD SHALL BE CONSIDERED AUTHORITY AND BE ADHERED TO. UTM I&TS SHALL BE CLEARANCE OF 2 INCHES ABOVE THE TRAY. 12 INCHES MUST BE LEFT IN-BETWEEN THE TRAY AND THE CEILING BUILDING TRUSS STRUCTURE. MULTIPLE TIERS OF WIRE MESH CABLE TRAY SHALL BE INSTALLED WITH A MINIMUM CLEARANCE OF 12 INCHES IN-BETWEEN THE TRAYS.
p. WHEN INSTALLED UNDER A RAISED FLOOR, WIRE MESH CABLE TRAY SHALL BE INSTALLED WITH A MINIMUM 1/4 INCH CLEARANCE BETWEEN THE TOP OF THE TRAY AND THE BOTTOM OF THE FLOOR TILES OR FLOOR SYSTEM STRINGERS (WHICHEVER ARE LOWER IN ELEVATION). WIRE MESH CABLE TRAY SHALL BE SUPPORTED BY MANUFACTURER'S SPECIFICATIONS.
q. SEE UTM COMMUNICATION CABLING STANDARD R3.1 SECTION 27 05 29 PART 3.1.9 FOR REQUIREMENTS FOR BASKET TRAY SHALL BE SECURED INDEPENDENTLY TO THE STRUCTURAL CEILING, BUILDING TRUSS SYSTEM, WALL OR FLOOR USING MANUFACTURER'S RECOMMENDED SUPPORTS AND APPROPRIATE HARDWARE AS DEFINED BY LOCAL CODE.
r. WHEN THE PATHWAY IS OVERHEAD, WIRE MESH CABLE TRAY SHALL BE INSTALLED WITH A MINIMUM CLEARANCE OF 12 INCHES ABOVE THE TRAY. 12 INCHES MUST BE LEFT IN-BETWEEN THE TRAY AND THE CEILING BUILDING TRUSS STRUCTURE. MULTIPLE TIERS OF WIRE MESH CABLE TRAY SHALL BE INSTALLED WITH A MINIMUM CLEARANCE OF 12 INCHES IN-BETWEEN THE TRAYS.
s. WHEN INSTALLED UNDER A RAISED FLOOR, WIRE MESH CABLE TRAY SHALL BE INSTALLED WITH A MINIMUM 1/4 INCH CLEARANCE BETWEEN THE TOP OF THE TRAY AND THE BOTTOM OF THE FLOOR TILES OR FLOOR SYSTEM STRINGERS (WHICHEVER ARE LOWER IN ELEVATION). WIRE MESH CABLE TRAY SHALL BE SUPPORTED BY MANUFACTURER'S SPECIFICATIONS.
t. SEE UTM COMMUNICATION CABLING STANDARD R3.1 SECTION 27 05 29 PART 3.1.9 FOR REQUIREMENTS FOR BASKET TRAY SHALL BE SECURED INDEPENDENTLY TO THE STRUCTURAL CEILING, BUILDING TRUSS SYSTEM, WALL OR FLOOR USING MANUFACTURER'S RECOMMENDED SUPPORTS AND APPROPRIATE HARDWARE AS DEFINED BY LOCAL CODE.
u. TELECOMMUNICATIONS WIRE BASKET TRAY SHALL BE SECTIONED AT LEAST EVERY 1.5 M (5 FT) CENTERS UNLESS THEY ARE DESIGNED FOR GREATER SPANS. A SUPPORT SHALL ALSO BE PLACED WITHIN 0.6 M (2 FT) ON EACH SIDE OF ANY CONNECTION TO A FITTING.
v. SEE 20201112 – UTM COMMUNICATION CABLING STANDARDS – R3.1 SECTION 27 15 01 19 PART 3.1.10 CABLE RACEWAYS SHALL NOT BE FILLED GREATER THAN THE TA/EA-569-B RECOMMENDED MAXIMUM FILL FOR THE PARTICULAR RACEWAY TYPE, OR 40% WHICHEVER IS LESS.
w. TELECOMMUNICATIONS WIRE BASKET TRAY SHALL BE BONDED TO THE SECONDARY BONDING BUSBAR (SBB) OVERHEAD OR UNDER FLOOR BONDING CONDUCTOR GRID SYSTEM USING AN APPROVED GROUND LUG ON THE WIRE BASKET TRAY AND A MINIMUM #8 AWG GROUNDING WIRE OR AS RECOMMENDED BY THE A.H.J. VERIFY BONDS AT SPLICES AND INTERSECTIONS BETWEEN INDIVIDUAL CABLE TRAY SECTIONS AND SUPPORTS. CABLE PATHWAY SHOULD BE ELECTRICALLY CONTINUOUS THROUGH BONDING AND ATTACHED TO THE SBB.
x. CONTRACTOR SHALL REFERENCE UTM COMMUNICATION CABLING STANDARDS R3.1 SECTION 27 05 36. CONTRACTOR SHALL ENGAGE UTM I&TS FOR DIRECTION AS REQUIRED.

2. SITE CONDITIONS

- a. THE COMMUNICATION CONTRACTOR IS REQUIRED TO BE ON SITE DURING EACH PHASE/MOVE AND PROVIDE FOR EIGHT (8) HOURS SUPPORT ON THE PHASE/MOVE ON WEEKENDS. INCLUDE ALL NECESSARY ALLOWANCES FOR OVERTIME WORK ON WEEKENDS AND/OR AFTER REGULAR HOURS TO SUIT PROJECT SCHEDULE AND FURNITURE DELIVERY PLAN.
b. CONTRACTOR IS RESPONSIBLE FOR COMPLETE HANDLING, DELIVERY, STORAGE, AND INSTALLATION OF ALL MATERIALS USED IN THE PERFORMANCE OF THE WORK.
c. CONTRACTOR IS RESPONSIBLE FOR KEEPING THE WORKPLACE CLEAN, SAFE, AND FREE FROM DEBRIS AT ALL TIMES. ALL DEBRIS MUST BE REMOVED FROM THE SITE ON A DAILY BASIS.
d. COSTS FOR CLEANING ARE THE RESPONSIBILITY OF THE CONTRACTOR.
e. CONTRACTOR WILL BEAR ANY COSTS FOR DAMAGE CAUSED BY THEM OR CLEAN-UPS AND DEBRIS REMOVAL THAT REMAIN ON SITE ONE DAY AFTER THE COMPLETION OF THE COMMUNICATIONS CABLING INSTALLATION.
f. CONTRACTOR SHALL COORDINATE WITH FURNITURE AND CARPET INSTALLERS FOR DISCONNECT/RECONNECT OF FURNITURE.
g. CONTRACTOR TO NEATLY BUNDLE AND SECURE LOOSE CABLES WITH SPLIT LOOM. SPIRAL WRAP IS NOT ACCEPTABLE.
h. ROUTE HORIZONTAL CABLING THROUGH IN-CEILING CABLE TRAY OR CONDUIT. SEE DRAWINGS FOR DETAILS.
i. CONTRACTOR IS NOT PERMITTED TO INSTALL OR DE-INSTALL EQUIPMENT ON CUSTOMER PREMISES WITHOUT PRIOR APPROVAL FROM OWNER OR GENERAL CONTRACTOR.
j. CONTRACTOR IS NOT ALLOWED TO REMOVE ANY EQUIPMENT INSTALLED BY ANOTHER TRADE WHERE THE MOVEMENT OF EQUIPMENT NOT CONTROLLED BY THE CONTRACTOR IS REQUIRED. THE CONTRACTOR MUST INFORM THE OWNER OR THE GENERAL CONTRACTOR AND THEY WILL DIRECT ACCORDINGLY.
k. CONTRACTOR IS REQUIRED TO CONSIDER WHERE CABLES WILL BE INSTALLED AND IF ANY LIFTS OR ADDITIONAL EQUIPMENT IS REQUIRED TO INSTALL.
l. ALL COMMUNICATIONS CONTRACTOR EMPLOYEES SHALL HAVE WORKING AT HEIGHTS AND WHIMIS CERTIFICATION.
m. CONTRACTOR IS NOT PERMITTED TO CORE/DRILL OR PENETRATE ANY WALLS, CEILING, FLOORS OR ANY OTHER AREAS WITHOUT PERMISSION FROM THE OWNER OR GENERAL CONTRACTOR.
n. ANY CABLES PASSING THROUGH A FIRE RATED PARTITION MUST BE FIRE STOPPED WITH A UL/CSA LISTED ASSEMBLY. REFER TO ARCHITECTURAL DETAILS.

3. DOCUMENTATION / PROJECT CLOSE OUT

- a. CONTRACTOR SHALL SUBMIT WARRANTIES, CERTIFICATIONS, AS-BUILT DRAWINGS, AND ALL CABLE TEST RESULTS AS PART OF THE PROJECT CLOSEOUT DOCUMENTATION.
b. CONTRACTOR SHALL PREPARE AS-BUILT DRAWINGS IDENTIFYING ALL VOICE/DATA OUTLETS, PATCH PANELS, AND IDC CONNECTIONS AS PER THE REQUIREMENTS OF ANS/TIA 606-C.
c. AS-BUILT DRAWINGS SHALL BE PROVIDED IN AUTOCAD (VERSION 2010 OR LATER), SOFT COPY FORMAT, PDF, AND HARD COPY FULL SIZE DRAWINGS.
d. DRAWINGS SHALL DESCRIBE CABLE ID'S ON DRAWINGS.
e. AS-BUILT DRAWINGS SHALL INCLUDE FLOOR LAYOUTS AND BACKBONE DIAGRAMS.
f. THIS PROJECT REQUIRES THE CONTRACTOR TO PROVIDE THE MANUFACTURER WARRANTY, WHICH COMBINES AN EXTENDED PRODUCT WARRANTY WITH AN APPLICATIONS ASSURANCE WARRANTY, ALONG WITH CONTRACTOR'S WARRANTY.
g. CONTRACTOR SHALL PROVIDE THE WARRANTY CERTIFICATE AS THE FINAL DELIVERABLE TO SIGNIFY COMPLETION OF WORK.
h. DOCUMENTATION FOR TEST RESULTS SHALL INCLUDE SOFT COPIES AND ONE (1) BINDER WITH COLOUR DOCUMENTS.
i. THE DOCUMENTATION BINDER AND SOFT COPY CASE SHALL BE MARKED WITH THE PROJECT NAME, PROJECT DESCRIPTION, AND DATE OF PROJECT COMPLETION (DAY, MONTH, AND YEAR).
j. TEST RESULTS SHALL INCLUDE FULL TEST RESULTS AND SUMMARY, IN THE NATIVE FORMAT OF THE CERTIFICATION TESTER, WITH INCLUDED READER SOFTWARE, ON CD OR FLASH DRIVE.
k. CABLE ID ON THE TEST RESULTS SHALL MATCH THE ID ON THE AS-BUILT DRAWINGS.
l. A DRAFT NETWORK DRAWING, DETAILING PHYSICAL PORT LOCATIONS, QUANTITIES AND IDENTIFICATIONS MUST BE PROVIDED AHEAD OF TIME FOR I&TS NETWORK ENGINEERING TO CONFIGURE NETWORK EQUIPMENT. THIS LENGTH OF TIME IS VARIABLE AND IS REPRESENTED AS A FUNCTION OF THE NUMBER OF DATA DROPS. EACH DROP REQUIRES APPROXIMATELY 7 MINUTES OF CONTRIBUTION TIME, HENCE A NETWORK MAP FOR A BUILDING WITH 500 DATA DROPS MUST BE PROVIDED AT LEAST 8 BUSINESS DAYS PRIOR TO COMMISSIONING NETWORK EQUIPMENT: 500 DROPS X 7 MINUTES PER DROP = 3,500 MINUTES = 58.33 HOURS; 58.33 / 7.25 WORKING HOURS PER DAY = 8.04 DAYS.
m. CONTRACTOR SHALL REFERENCE UTM COMMUNICATION CABLING STANDARDS R3.1. ALL DATA POINTS WILL BE DOCUMENTED BY THE CONTRACTOR IN UTM-PROVIDED 'DATA COUNT' EXCEL SHEET. CONTRACTOR SHALL COORDINATE WITH UTM I&TS.

4. WARRANTY

- a. PRODUCT SHALL BE WARRANTED FREE OF DEFECTS IN MATERIAL OR WORKMANSHIP.
b. PRODUCT SHALL BE WARRANTED TO PERFORM THE INTENDED FUNCTION WITHIN DESIGN LIMITS.
c. FIELD-APPLIED PAINT COATINGS ON RACEWAY, BOXES, PLATES OR FITTINGS SHALL BE EXCLUDED FROM RACEWAY MANUFACTURER'S WARRANTY.
d. INSTALLED CABLING COMPONENTS SHALL BE GRANTED A PERMANENT LINK OR CHANNEL WARRANTY BY THE MANUFACTURER UNDER THE CONDITIONS STATED BELOW.
e. CONSTRUCTION IS PERFORMED BY AN INSTALLER THAT IS CERTIFIED BY THE MANUFACTURER'S TRAINING PROGRAM.
f. CONTRACTORS PERFORMING THE CERTIFIED INSTALLATION ARE PROPERLY REGISTERED IN THE MANUFACTURER'S WARRANTY PROGRAM.
g. PERMANENT LINK OR CHANNEL COMPONENTS ARE SUPPLIED ENTIRELY BY THE MANUFACTURER (INCLUDING PATCH CORDS FOR CHANNEL).
h. A WARRANTY FROM THE CONTRACTOR IS NOT ACCEPTED IN LIEU OF MANUFACTURER WARRANTY/CERTIFICATION.
i. CONTRACTOR TO PROVIDE HARD COPY EVIDENCE OF MANUFACTURER'S CERTIFICATION WITH TENDER SUBMISSION AND UPON COMPLETION OF THE PROJECT.
j. CONTRACTOR TO PROVIDE THE MANUFACTURER'S WARRANTY UNDER THE CLIENT'S NAME AND SHALL BE TRANSFERABLE.

27 00 01 SCOPE OF WORK FOR STRUCTURED CABLING COMMUNICATIONS

- 1. THE SPECIFIC STRUCTURED CABLING SCOPE OF WORK FOR THIS PROJECT INCLUDES BUT IS NOT LIMITED TO THE SUPPLY AND INSTALL OF:
a. INTER-BUILDING FIBRE BACKBONE CABLING
b. HORIZONTAL CABLING
c. RACKS AND ACCESSORIES
d. CABLE TRAY/SLINGS
e. CONTRACTOR TO PROVIDE LABOUR TO INSTALL CLIENT-PROVIDED ACCESS POINTS AND

- BRACKETS (WAP)
f. ALL FIRE STOP MATERIALS/MECHANISMS FOR ALL COMMUNICATION CABLING PENETRATIONS AS PER SECTION 27 00 00.
g. ALL CLOSE OUT DOCUMENTATION REQUIREMENTS NEEDED AS PER SECTION 27 00 00.

27 05 44 FIRE STOPPING FOR COMMUNICATIONS PATHWAY AND CABLING

- 1. ANY CABLES PASSING THROUGH A FIRE RATED PARTITION MUST BE FIRE STOPPED WITH A UL/CSA LISTED ASSEMBLY. REFER TO ARCHITECTURAL DETAILS.
27 05 26 GROUNDING AND BONDING FOR COMMUNICATIONS SYSTEMS
1. GROUNDING TO TIE INTO A SINGLE GROUND POINT ONLY
2. ALL METALLIC ENCLOSURES, RACKS, CABLE TRAY, PATCH PANELS, VOICE CABLES SHALL BE BONDED TO THE MESH-BN, SBB OR FIBR USING A MINIMUM SIZED CONDUCTOR OF 6 AWG.
3. CABINETS, RACKS, AND OTHER ENCLOSURES SHALL NOT BE BONDED SERIALLY. EACH SHALL HAVE THEIR OWN DEDICATED BONDING CONDUCTOR TO THE MESH-BN, SBB, PBB OR TERC.
4. RAISED FLOOR PEDESTALS SHALL BE BONDED USING A MINIMUM SIZED CONDUCTOR OF 6 AWG.
5. GROUND CABLE SHALL BE INSULATED GREEN JACKET, COPPER WIRE INSTALLED IN EACH COMMUNICATION ROOM THAT CONNECTS TO THE BUILDING GROUND SYSTEM.
6. COMMUNICATIONS CABLING CONTRACTOR TO FOLLOW ANS-TIA 607-C STANDARD TO GROUND AND BOND SYSTEMS.
7. CONTRACTOR SHALL REFERENCE UTM COMMUNICATION CABLING STANDARDS R3.1 SECTIONS 27 05 26. CONTRACTOR SHALL ENGAGE UTM I&TS FOR DIRECTION AS REQUIRED.

27 05 28 PATHWAYS FOR COMMUNICATIONS SYSTEMS

- 1. CABLE TRAY
a. COMMUNICATIONS CABLING CONTRACTOR TO SUPPLY AND INSTALL CABLE TRAY (REFER TO DRAWINGS FOR SIZE AND LOCATION).
b. THE COMMUNICATIONS CONTRACTOR SHALL BE RESPONSIBLE FOR MEASURING AND CONFIRMING CABLE PATHWAYS PRIOR TO INSTALLATION TO ENSURE NO CABLING WILL EXCEED THE SPECIFIED DISTANCE LIMITATIONS. WHERE THE DISTANCE LIMITATIONS ARE EXCEEDED, THE COMMUNICATIONS CONTRACTOR SHALL INFORM THE COMMUNICATIONS CONSULTANT PRIOR TO INSTALLATION.
c. ALL CABLING EXTENDING BEYOND CABLE TRAY SHALL BE SUPPORTED USING CONDUIT OR CABLE SLINGS.
d. TELECOMMUNICATIONS WIRE BASKET TRAY SHALL BE SECURED INDEPENDENTLY TO THE STRUCTURAL CEILING, BUILDING TRUSS SYSTEM, WALL OR FLOOR USING MANUFACTURER'S RECOMMENDED SUPPORTS AND APPROPRIATE HARDWARE AS DEFINED BY LOCAL CODE.
e. WHEN THE PATHWAY IS OVERHEAD, WIRE MESH CABLE TRAY SHALL BE INSTALLED WITH A MINIMUM CLEARANCE OF 12 INCHES ABOVE THE TRAY. 12 INCHES MUST BE LEFT IN-BETWEEN THE TRAY AND THE CEILING BUILDING TRUSS STRUCTURE. MULTIPLE TIERS OF WIRE MESH CABLE TRAY SHALL BE INSTALLED WITH A MINIMUM CLEARANCE OF 12 INCHES IN-BETWEEN THE TRAYS.
f. WHEN INSTALLED UNDER A RAISED FLOOR, WIRE MESH CABLE TRAY SHALL BE INSTALLED WITH A MINIMUM 1/4 INCH CLEARANCE BETWEEN THE TOP OF THE TRAY AND THE BOTTOM OF THE FLOOR TILES OR FLOOR SYSTEM STRINGERS (WHICHEVER ARE LOWER IN ELEVATION). WIRE MESH CABLE TRAY SHALL BE SUPPORTED BY MANUFACTURER'S SPECIFICATIONS.
g. SEE UTM COMMUNICATION CABLING STANDARD R3.1 SECTION 27 05 29 PART 3.1.9 FOR REQUIREMENTS FOR BASKET TRAY SHALL BE SECURED INDEPENDENTLY TO THE STRUCTURAL CEILING, BUILDING TRUSS SYSTEM, WALL OR FLOOR USING MANUFACTURER'S RECOMMENDED SUPPORTS AND APPROPRIATE HARDWARE AS DEFINED BY LOCAL CODE.
h. TELECOMMUNICATIONS WIRE BASKET TRAY SHALL BE SECTIONED AT LEAST EVERY 1.5 M (5 FT) CENTERS UNLESS THEY ARE DESIGNED FOR GREATER SPANS. A SUPPORT SHALL ALSO BE PLACED WITHIN 0.6 M (2 FT) ON EACH SIDE OF ANY CONNECTION TO A FITTING.
i. SEE 20201112 – UTM COMMUNICATION CABLING STANDARDS – R3.1 SECTION 27 15 01 19 PART 3.1.10 CABLE RACEWAYS SHALL NOT BE FILLED GREATER THAN THE TA/EA-569-B RECOMMENDED MAXIMUM FILL FOR THE PARTICULAR RACEWAY TYPE, OR 40% WHICHEVER IS LESS.
j. TELECOMMUNICATIONS WIRE BASKET TRAY SHALL BE BONDED TO THE SECONDARY BONDING BUSBAR (SBB) OVERHEAD OR UNDER FLOOR BONDING CONDUCTOR GRID SYSTEM USING AN APPROVED GROUND LUG ON THE WIRE BASKET TRAY AND A MINIMUM #8 AWG GROUNDING WIRE OR AS RECOMMENDED BY THE A.H.J. VERIFY BONDS AT SPLICES AND INTERSECTIONS BETWEEN INDIVIDUAL CABLE TRAY SECTIONS AND SUPPORTS. CABLE PATHWAY SHOULD BE ELECTRICALLY CONTINUOUS THROUGH BONDING AND ATTACHED TO THE SBB.
k. CONTRACTOR SHALL REFERENCE UTM COMMUNICATION CABLING STANDARDS R3.1 SECTION 27 05 36. CONTRACTOR SHALL ENGAGE UTM I&TS FOR DIRECTION AS REQUIRED.

2. VELCRO WRAPS

- k. COMMUNICATIONS CABLING CONTRACTOR TO USE VELCRO TIES TO THE BUNDLES OF CABLE, NYLON CABLE TIES WILL NOT BE ACCEPTED.
l. VELCRO WRAPS SHALL BE SUPPLIED AND INSTALLED TO SUPPORT AND NEATLY BUNDLE ALL HORIZONTAL AND VERTICAL CABLING.

4. INNERDUCT

- a. INNERDUCT SHALL BE SUPPLIED AND INSTALLED NON-PLENUM (FT4) OR PLENUM (FT6) RATED TO SUIT THE FIRE RATING AT THE LOCATION OF INSTALLATION.
b. INNERDUCT SHALL BE COLOURED FOR USE WITH DIFFERENT CABLING AS FOLLOWS:
c. MULTIMODE FIBRE : ORANGE
d. SINGLEMODE FIBRE : YELLOW

5. SPLIT LOOM

- a. COMMUNICATIONS CABLING CONTRACTOR SHALL SUPPLY SPLIT LOOM TO DRESS THE CABLING FROM THE WALL/FLOOR FEED TO FURNITURE FEED LOCATIONS.
b. THE SPLIT LOOM SHALL BE SIZED AND COLOUR MATCHED TO SUIT EACH LOCATION.

27 05 53 IDENTIFICATION FOR COMMUNICATIONS SYSTEMS

- 1. CONTRACTOR SHALL LABEL EACH CABLE BY USING SELF-ADHESIVE, SELF-LAMINATING LABELS IN ACCORDANCE WITH THIS SPECIFICATION AND ANS/TIA-606-C.
2. ALL LABELS SHALL BE MACHINE-GENERATED; HAND WRITTEN LABELS ARE NOT ACCEPTABLE.
a. CABLE LABELING: ALL CABLING SHALL BE LABELED IN FOUR (4) LOCATIONS, EACH END OF THE CABLE FOUR (4) INCHES FROM THE END, ON THE CORRESPONDING FACEPLATE, AND PATCH PANEL/IDC MOUNT.
b. PIGTAIL LABELING: ALL CABLING SHALL BE LABELED IN THREE (3) LOCATIONS, EACH END OF THE CABLE FOUR (4) INCHES FROM THE END, AND ON THE CORRESPONDING FACEPLATE.
c. PATCH CORD LABELING: ALL PATCH CABLES SHALL BE LABELED IN TWO (2) LOCATIONS, EACH END OF THE CABLE.
3. CONTRACTOR SHALL REFERENCE UTM COMMUNICATION CABLING STANDARDS R3.1 SECTION 27 05 53. CONTRACTOR SHALL ENGAGE UTM I&TS FOR DIRECTION AS REQUIRED.

27 08 00 COMMISSIONING OF STRUCTURED CABLING SYSTEMS

- 1. THE INSTALLATION SHALL BE TESTED AND WARRANTED TO THE CATEGORY OF CABLE BEING INSTALLED AND TESTED TO THE STANDARDS AS DETAILED IN ANS/TIA DOCUMENTS 568.0-D, 568.1-D, 568.2-D, AND 568.3-D INCLUDING ALL APPENDA.
2. COPPER CATEGORY CABLES MUST BE TESTED AS PER TIA-1152 AND THE MANUFACTURER'S REQUIREMENTS TO MEET THE CATEGORY CABLE LEVEL SPECIFIED IN THIS DOCUMENT AND AS NECESSARY TO BE ELIGIBLE FOR THE MANUFACTURER'S 20+ YEAR WARRANTY.
3. PRE-APPROVED LEVEL IV CABLE CERTIFICATION TESTERS ARE THE FLUKE VERSIV DSX RANGE AND THE IDEAL NETWORKS LANTEK IV.
4. TESTER SHALL BE CALIBRATED AND HAVE LATEST VERSIONS OF FIRMWARE AND SOFTWARE.
5. TESTING OF TELECOMMUNICATIONS CABLING SHALL BE DONE AT THE TIME OF INSTALLATION.
6. ALL CABLING IS TO BE TESTED AND CERTIFIED.
7. TESTING OF BACKBONE CABLING SHALL BE DONE PRIOR TO THE DELIVERY OF THE SYSTEM.
8. THE ACCEPTABLE OPTICAL LOSS MUST BE LESS THAN THE ALLOWABLE LOSS THAT WILL SUPPORT THE CLIENT NETWORK PROTOCOL.
9. ALL OPTICAL FIBRE STRANDS SHALL BE TESTED WITH A SINGLE-MANUFACTOR-APPROVED OPTICAL LOSS TEST SET (OLTS), ACCORDING TO TIA-526-7-A-2015 FOR SINGLE MODE CABLES, AND TIA-526-14-C-2015 FOR MULTI-MODE CABLES.
10. PRE-APPROVED OLTS ARE THE FLUKE VERSIV DSX RANGE (WITH OPTICAL FIBRE ADAPTERS), AND EXFO FOT SERIES.
11. CONTRACTOR SHALL ENSURE THAT THE OLTS UNITS ARE EQUIPPED TO SUPPORT THE REQUIRED SINGLE-MODE AND MULTI-MODE BANDWIDTHS.
12. THE PASS/FAIL REPORTING MUST BE REFERENCED TO THE OPTICAL POWER BUDGET ESTABLISHED FOR THE FIBRE TYPE AND OPTICAL TRANSDUCER EQUIPMENT TO BE USED. CONTRACTOR SHALL CONFIRM WITH CLIENT.
13. TEST SHALL BE PERFORMED BIDIRECTIONAL AT 850 AND 1300 NM FOR MULTIMODE, AND 1310 AND 1550 NM, FOR SINGLE MODE UNLESS OTHER-WISE REQUIRED.
14. FOR OSP SINGLE MODE FIBRE, BIDIRECTIONAL ODR TESTING IS REQUIRED.
15. ALL TEST RESULTS SHALL BE DELIVERED TO THE MANUFACTURER AND BOTH A SOFT COPY AND HARD COPY SHALL BE DELIVERED TO THE HDI GROUP FOR REVISION OF THE RESULTS.
16. CABLE USED IN THE INSTALLATION SHALL BE QUALIFIED AND RECOGNIZED BY THE MANUFACTURER OF THE CABLING SOLUTION.
17. LINKS OR CHANNELS IN THE INSTALLATION ARE PROPERLY DOCUMENTED AND TESTED WITH A 'PASS' RESULT, CONDITIONAL/MARGINAL PASSES (PASS) MUST BE FIXED AND RETESTED UNTIL THEY ACHIEVE A CLEAN PASS.
18. REQUIRED TEST RESULTS AND PROJECT DOCUMENTATION SHALL BE SUBMITTED TO MANUFACTURER BY THE REGISTERED CONTRACTOR, IN ORDER TO OBTAIN PROPER SYSTEM CERTIFICATION.
19. CONTRACTOR SHALL REFERENCE UTM COMMUNICATION CABLING STANDARDS R3.1 SECTION 27 05 55. ENGAGE UTM I&TS FOR DIRECTION AS REQUIRED.

27 11 16 COMMUNICATIONS CABINETS, RACKS, FRAMES, AND ENCLOSURES

- 1. THE COMMUNICATIONS CONTRACTOR SHALL SUPPLY AND INSTALL CABINET/RACKS AS PER

- DRAWING
2. THE CABINETS/RACKS SHALL BE BONDED TO BUILDING GROUND AND BOLTED TO FLOOR USING APPROPRIATELY-SIZED LAG BOLTS.
3. THE CABINETS/RACKS SHALL BE NEW AND FREE OF DEFECTS.
4. HORIZONTAL CABLE MANAGERS SHALL BE COMPATIBLE WITH 19" STANDARD CABINETS/RACKS.
5. VERTICAL CABLE MANAGERS SHALL BE INSTALLED TO RUN THE FULL HEIGHT OF THE RACK.
6. SHELVES SHALL BE RATED FOR NO LESS THAN 200LBS.
7. CABLE DROP CONTROLS / WATERFALLS SHALL BE INSTALLED IN LOCATIONS WHERE THE CABLE DROPS INTO CABINETS AND OR RACKS.
8. PLYWOOD BACKBOARDS SHALL BE SUPPLIED AND INSTALLED BY USING 1/2" THICK, FIRE RATED, 4' X 8' GOOD ONE SIDE, AS PER LOCATION NOTED ON DRAWING.
9. ALL PLYWOOD BACKBOARDS SHALL BE PAINTED WITH TWO (2) COATS OF FIRE RETARDANT NON-CONDUCTIVE WHITE PAINT. FIRE RATING STAMP SHALL BE LEFT UNPAINTED TO ALLOW FOR VERIFICATION OF RATING.
10. CONTRACTOR SHALL REFERENCE UTM COMMUNICATION CABLING STANDARDS R3.1 SECTION 27 11 16 FOR ADDITIONAL REQUIREMENTS ON RACKS/CABINETS AND CABLE MANAGEMENT.

27 11 19 COMMUNICATIONS TERMINATION BLOCKS AND PATCH PANELS

- 1. ALL HORIZONTAL UTP CABLING SHALL BE TERMINATED ON MODULAR, BLACK PATCH PANELS.
2. ALL MODULAR PATCH PANELS SHALL BE POPULATED WITH UTP MODULES WITH THE CATEGORY MEETING THE REQUIREMENTS SET OUT IN SECTION 27 15 43.
3. ALL UTP MODULES SHALL MEET THE COLOUR REQUIREMENTS SET OUT IN SECTION 27 15 43.
4. ALL FIBRE OPTIC CABLING SHALL BE TERMINATED IN RACK MOUNTED PATCH PANELS.
5. BLANK FILLER STRIPS SHALL BE PROVIDED FOR ALL UNUSED OPENINGS.
6. CONTRACTOR SHALL REFERENCE UTM COMMUNICATION CABLING STANDARDS R3.1 SECTIONS 27 11 19 AND 27 11 23. CONTRACTOR SHALL ENGAGE UTM I&TS FOR DIRECTION AS REQUIRED.

27 11 26 COMMUNICATIONS RACK MOUNTED POWER PROTECTION AND POWER STRIPS

- 1. THE CONTRACTOR SHALL PROVIDE UPS AND PDU'S.
2. THE POWER CORDS SHALL BE A MINIMUM OF NINE (9) FEET TO REACH UP TO THE CABLE TRAY OR DOWN TO THE FLOOR WHERE IT WILL PLUG INTO A RECEPTACLE SUPPLIED BY DIVISION 26.
3. SUPPLY AND INSTALL UPS/PDUS AS PER LOCATIONS ON DRAWINGS.
4. UPS, SPECIFIED PRODUCT: Eaton 9PX6-L 6kVA (SUPPLY AND INSTALL ONE)
5. PDU, SPECIFIED PRODUCT: Eaton EVMAL630B W/ L6-30P (SUPPLY AND INSTALL TWO)

27 13 13 COMMUNICATIONS COPPER BACKBONE CABLING

- 1. ALL BACKBONE CABLING SHALL COMPLY WITH MANUFACTURER'S RECOMMENDED BUNDLING PRACTICES FOR INSTALLATION; CABLES SHALL NOT BE SCRATCHED, DENTED OR OTHERWISE DAMAGED BEFORE, DURING, OR AFTER THE INSTALLATION.
2. THE COMMUNICATIONS CABLING CONTRACTOR SHALL ENSURE THAT ALL INSTALLED CABLING DOES NOT EXCEED THE MINIMUM BEND RADIUS AT ANY POINT IN THE LINK.
3. LUBRICATION: IN ORDER TO REDUCE CABLE FRICTION WHEN INSTALLING COMMUNICATION CABLES IN CONDUITS, IT IS PERMISSIBLE FOR THE CONTRACTOR TO USE AN APPROVED PULLING LUBRICANT PROVIDING IT MEETS OR EXCEEDS THE MANUFACTURER'S SPECIFICATIONS AND GUIDELINES.
4. ALL BACKBONE LINKS SHALL BE POINT-TO-POINT WITH NO SPLICES.
5. VERTICAL RUNS OF MORE THAN 30 FEET OR 3 FLOORS SHALL BE RESTRAINED EVERY 30 FEET WITH SPLIT MESH GRIPS OR CADDY VERTICAL GRIPS.
6. ALL PENETRATIONS OF THE FIRE RATED SLABS OR PARTITIONS MUST BE FIRE STOPPED WITH CSA /ULC LISTED ASSEMBLY TO MAINTAIN THE ORIGINAL FIRE RATING.
7. CONTRACTOR SHALL REFERENCE UTM COMMUNICATION CABLING STANDARDS R3.1 SECTION 27 13 13. CONTRACTOR SHALL ENGAGE UTM I&TS FOR DIRECTION AS REQUIRED.

27 13 23 COMMUNICATIONS OPTICAL FIBRE BACKBONE CABLING

- 1. ALL BACKBONE CABLING SHALL COMPLY WITH MANUFACTURER'S RECOMMENDED BUNDLING PRACTICES FOR INSTALLATION; CABLES SHALL NOT BE SCRATCHED, DENTED, OR OTHERWISE DAMAGED BEFORE, DURING, OR AFTER THE INSTALLATION.
2. THE COMMUNICATIONS CABLING CONTRACTOR SHALL ENSURE THAT ALL INSTALLED CABLING DOES NOT EXCEED THE MINIMUM BEND RADIUS AT ANY POINT IN THE LINK.
3. LUBRICATION: IN ORDER TO REDUCE CABLE FRICTION WHEN INSTALLING COMMUNICATION CABLES IN CONDUITS IT IS PERMISSIBLE FOR THE CONTRACTOR TO USE AN APPROVED PULLING LUBRICANT PROVIDING IT MEETS OR EXCEEDS THE MANUFACTURER'S SPECIFICATIONS AND GUIDELINES.
4. ALL BACKBONE LINKS SHALL BE POINT-TO-POINT.
5. ALL STRANDS OF THE OPTICAL FIBRE SHALL BE FUSION SPLICED.
6. VERTICAL RUNS OF MORE THAN 30 FEET OR 3 FLOORS SHALL BE RESTRAINED EVERY 30 FEET WITH SPLIT MESH GRIPS OR CADDY VERTICAL GRIPS.
7. ALL PENETRATIONS OF THE FIRE RATED SLABS OR PARTITIONS MUST BE FIRE STOPPED WITH CSA /ULC ASSEMBLY TO MAINTAIN THE ORIGINAL FIRE RATING.
8. REFER TO DRAWINGS FOR FIBRE TYPES.
9. FOR TERMINATIONS IN EXISTING OPTICAL CROSS-CONNECT CABINET (OCC), CONTRACTOR SHALL SUPPLY AND INSTALL ALL NECESSARY HARDWARE FOR FUSION TERMINATION WITHIN CORNING FIBRE DISTRIBUTION INTERFACE. COORDINATE WITH UTM I&TS FOR ACCESS TO OCC. PART NUMBERS ARE: COH-CS24-49-POORE AND RMB-CASS-12C. SUPPLY AND INSTALL FDI-CASSETTE AND FDI-TRAY AS REQUIRED.
10. CONTRACTOR SHALL REFERENCE UTM COMMUNICATION CABLING STANDARDS R3.1 SECTION 27 13 23 AND 27 13 23 13. CONTRACTOR SHALL ENGAGE UTM I&TS FOR DIRECTION AS REQUIRED.

27 15 13 COMMUNICATIONS COPPER HORIZONTAL CABLING

- 1. ALL CABLING MUST BE TERMINATED USING ANS-TIA 568A CONFIGURATION, UNLESS SPECIFICALLY NOTED OTHERWISE.
2. ALL CABLE SLACK SHALL BE NEATLY COILED AND SECURED TO THE PATHWAY WITH VELCRO.
3. CONTRACTOR SHALL ENSURE THAT ALL INSTALLED SPECIFIED CATEGORY CABLING DOES NOT EXCEED THE MINIMUM BEND RADIUS AT ANY POINT IN THE LINK.
4. ALL CABLE BUNDLES SHALL NOT EXCEED 12 CABLE PER BUNDLE.
5. ALL UTP CABLES SHALL BE BLUE.
6. CONTRACTOR SHALL REFERENCE UTM COMMUNICATION CABLING STANDARDS R3.1 SECTION 27 15 01 19. CONTRACTOR SHALL ENGAGE UTM I&TS FOR DIRECTION AS REQUIRED.

27 15 43 COMMUNICATIONS FACEPLATES AND CONNECTORS

- 1. UTP TERMINATION MODULES SHALL BE OF THE SAME CATEGORY AS THE UTP CABLING SOLUTION TO ENSURE THAT THE MANUFACTURER'S END-TO-END WARRANTY.
2. ALL I/O (WEATHERPROOF OUTLET) SHALL BE INSTALLED WITH CORROSIVE RESISTANT UTP JACK MODULE.
3. ALL UTP CONNECTORS SHALL MEET REQUIREMENTS IDENTIFIED BELOW:
3.1. DATA: BLUE
3.2. SECURITY: YELLOW
3.3. WAP: ORANGE
3.4. BAS/BMS: RED
4. OPTICAL FIBRE CONNECTORS SHALL BE FUSION SPLICED AND BE OF THE SAME MANUFACTURER AS THE CABLE INSTALLED.
5. OPTICAL FIBRE SHALL BE TERMINATED WITH LC CONNECTORS.
6. OPTICAL FIBRE ADAPTER STRIPS SHALL BE OF THE SAME MANUFACTURER AND STYLE TO SUIT THE CABLING INSTALLED.
7. WORKSTATION FACEPLATES AND ADAPTERS:
8. WORKSTATION OUTLETS SHALL BE OF THE SAME MANUFACTURER AND STYLE TO SUIT THE CONNECTORS INSTALLED.
9. MODULAR FURNITURE FACEPLATES SHALL HAVE A MINIMUM OF THREE (3) PORTS AND BLANKS SHALL BE INSTALLED FOR ALL UN-USED PORTS.
10. WALL FACEPLATES SHALL HAVE A MINIMUM OF FOUR (4) PORTS AND BLANKS SHALL BE INSTALLED FOR ALL UN-USED PORTS.
11. WALL FACEPLATE FOR MOUNTED PHONES SHALL MADE OF STEEL AND HAVE ONE (1) PORT AND SHALL HAVE TWO (2) MOUNTING POSTS TO SUPPORT CLIENT PROVIDED PHONE.
12. SURFACE MOUNTED BOXES SHALL HAVE A MINIMUM OF TWO (2) PORTS AND BLANKS SHALL BE INSTALLED FOR ALL UN-USED PORTS.
13. SYSTEMS FURNITURE:
13.1. COMMUNICATIONS CONTRACTOR SHALL ROUTE CABLES THROUGH THE CHANNEL/COMPARTMENT OF THE SYSTEMS FURNITURE.
13.2. COMMUNICATIONS CONTRACTOR SHALL COORDINATE WITH FURNITURE VENDOR FOR SPECIFIC FACEPLATE AND MOUNTING REQUIREMENTS.

14. FLOOR BOXES:

- 14.1. COMMUNICATIONS CONTRACTOR SHALL COORDINATE WITH ELECTRICAL/GENERAL CONTRACTOR TO ENSURE TERMINATION HARDWARE COMPATIBILITY IN SPECIFIED FLOORBOXES AND/OR POKE-THROUGHS

27 16 19 COMMUNICATIONS PATCH CORDS, STATION CORDS, AND CROSS-CONNECT WIRE

- 1. THE COMMUNICATIONS CONTRACTOR SHALL SUPPLY AND INSTALL ALL PATCH CORDS AT BOTH ENDS.
2. PATCH CORDS SHALL BE OF THE SAME MANUFACTURER AND CATEGORY TO PROVIDE A COMPLETE END TO END SOLUTION.
3. THE COMMUNICATION CONTRACTOR SHALL ASSUME ALL PORTS SHALL BE PATCHED AND USED CABLE MANAGEMENT/VELCRO WHILE MAINTAINING CABLE BEND RADIUS.
4. SUPPLY AND INSTALL TWO (2) FT4 RATED PATCH CORDS FOR EVERY HORIZONTAL CABLE

Table with 3 columns: No., ISSUANCE, DATE. Rows 1-4 detailing issuance dates for CD, PROGRESS, 100% CD, and TENDER.

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UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT

PRE-ENGINEERED BUILDING

3359 MISSISSAUGA ROAD

TITLE

SPECIFICATIONS



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|-----|---------------------|------------|
| 1 | ISSUED FOR 50% CD | 2024-09-06 |
| 2 | ISSUED FOR PROGRESS | 2024-10-15 |
| 3 | ISSUED FOR 100% CD | 2024-11-05 |
| 4 | ISSUED FOR TENDER | 2024-11-15 |

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SITE PLAN

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155 Gordon Baker Road, Suite 200
Toronto, ON M2H 3N5 Canada
t. 416 364 2100 | HIDI.com

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SCALE: 1:600 SHEET NO: T-101

DATE: FEB 2024

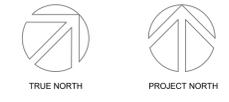
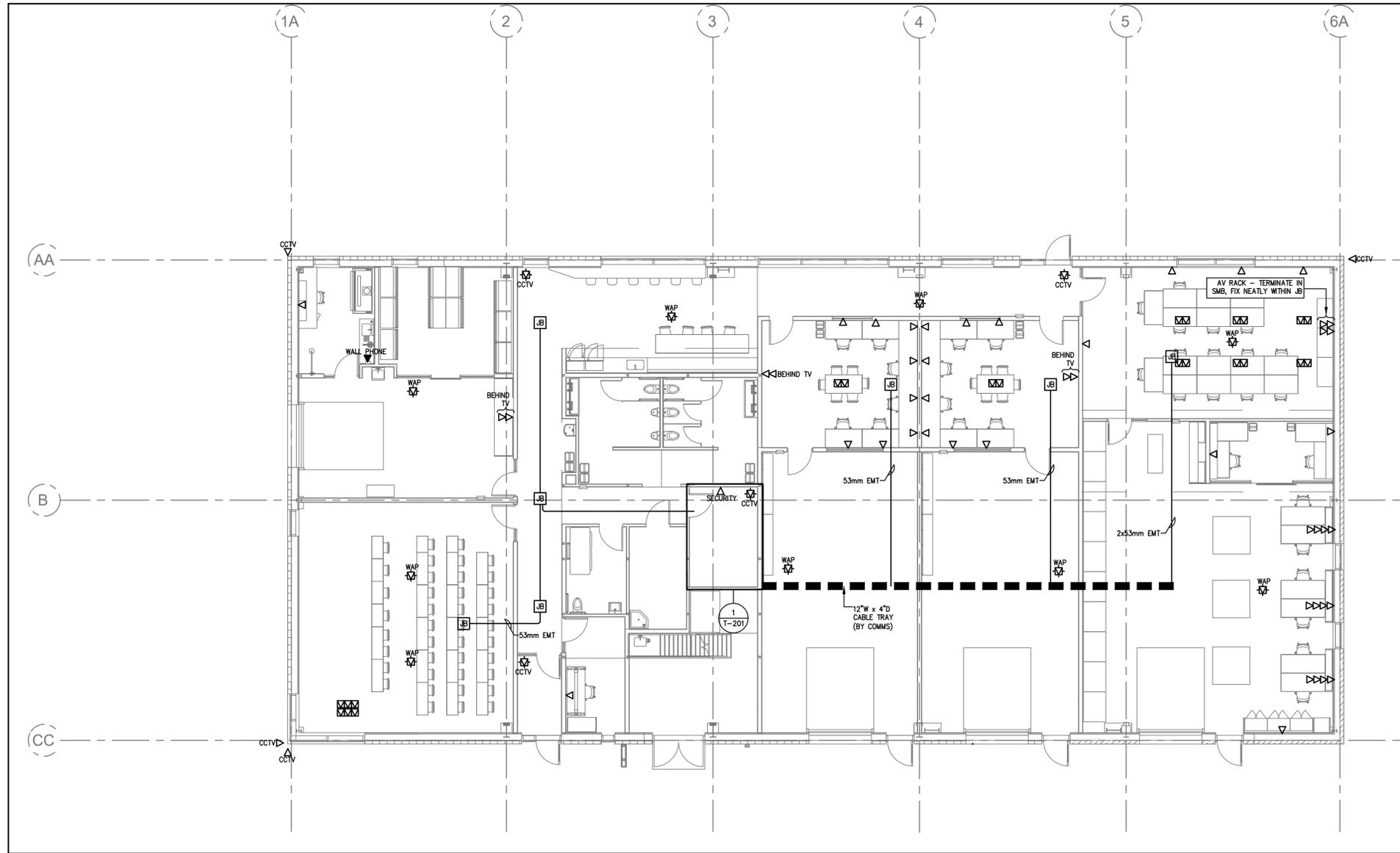
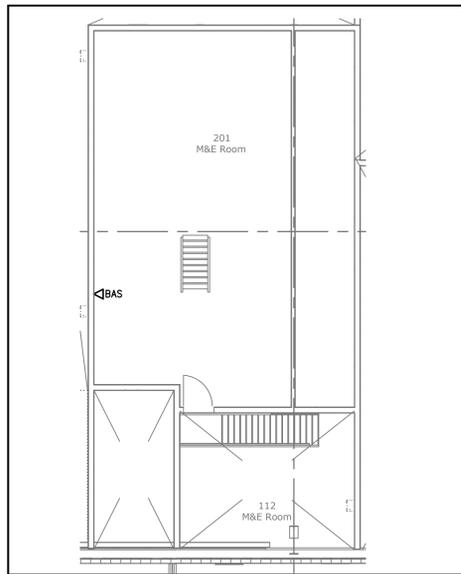
PROJECT NO: 2023-0059

DRAWN BY: SS

CHECKED BY: BC

NOTES

◆ CONTRACTOR TO SUPPLY AND INSTALL 48-STRAND OS2 INDOOR/OUTDOOR FIBRE CABLE BETWEEN NEW BUILDING LAN ROOM AND OPTICAL CROSSOVER CABINET (OCC) NO.2 THROUGH NETWORK OF EXISTING AND NEW DUCT BANKS. ALL TERMINATIONS BY DIVISION 27. COORDINATE WITH UTM I&TS.



| No. | ISSUANCE | DATE |
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| 3 | ISSUED FOR 100% CD | 2024-11-05 |
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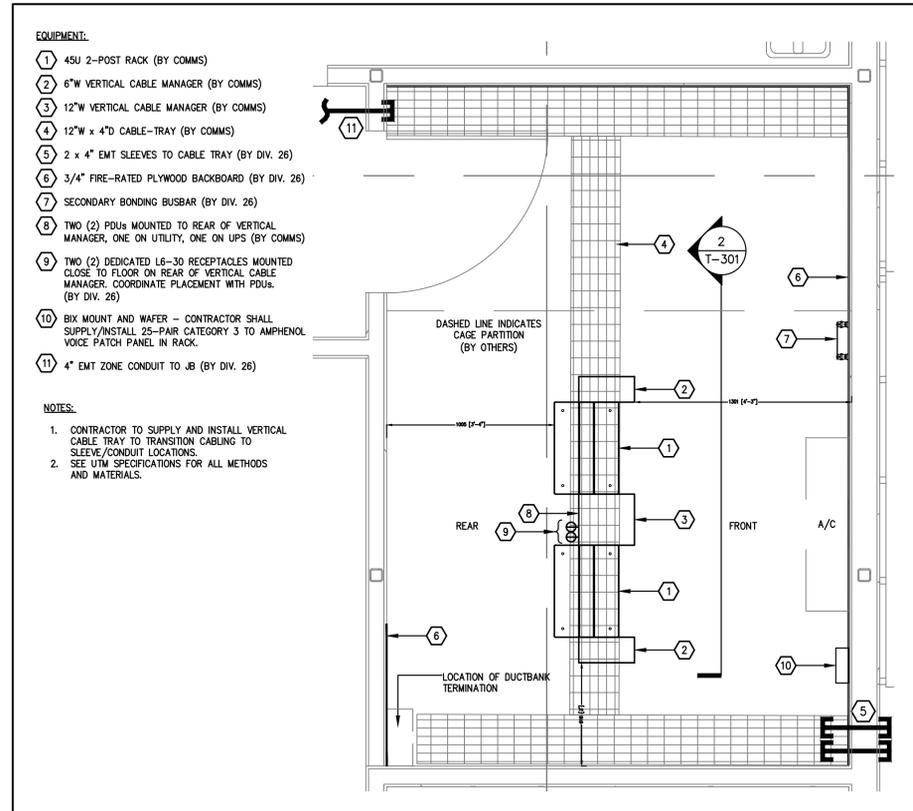
TITLE
GROUND FLOOR AND PARTIAL MEZZANINE TELECOM LAYOUTS

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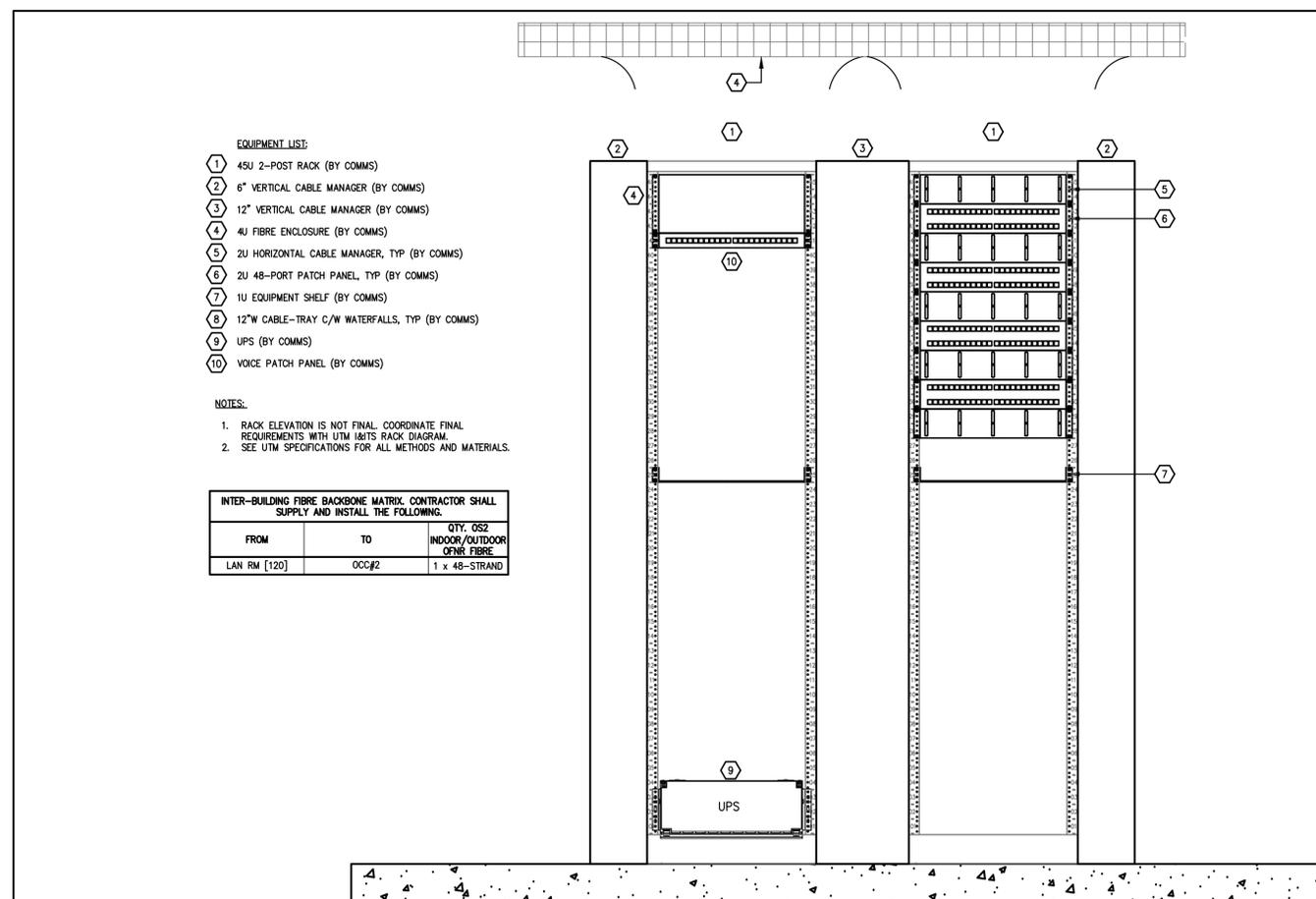
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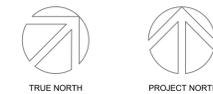
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| SCALE : 1:100 | SHEET NO : |
| DATE : FEB 2024 | T-201 |
| PROJECT NO : 2023-0059 | |
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01 HUB ROOM LAYOUT
T-301 1:20



2 HUB ROOM ELEVATION
T-301 1:10



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TITLE

HUB ROOM LAYOUT AND ELEVATION

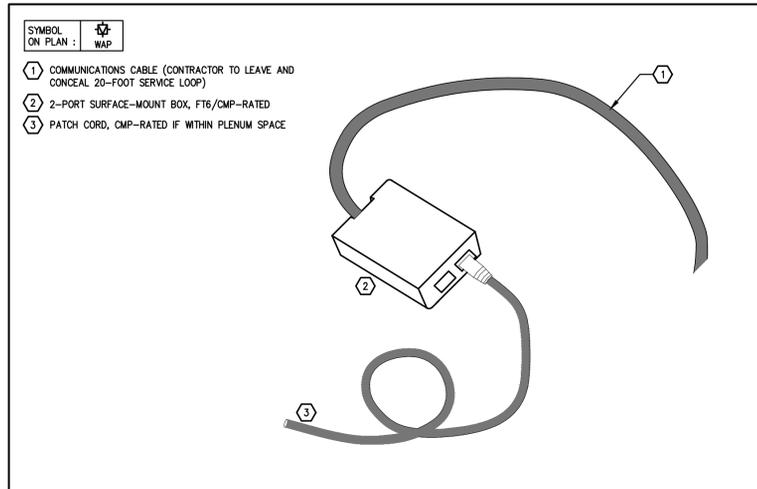
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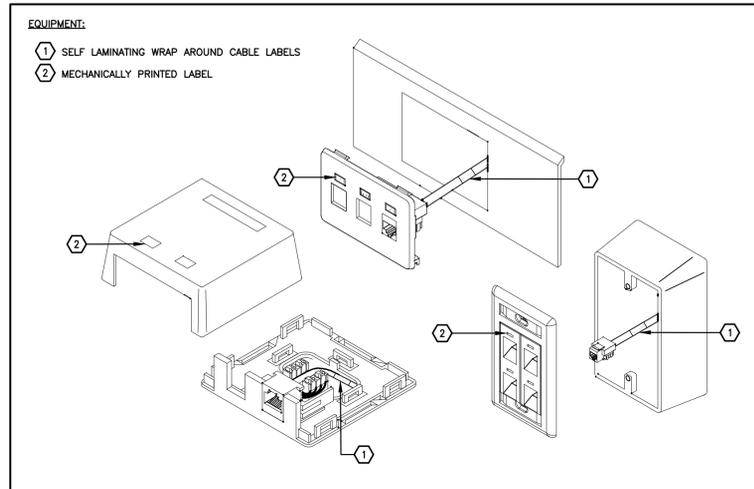
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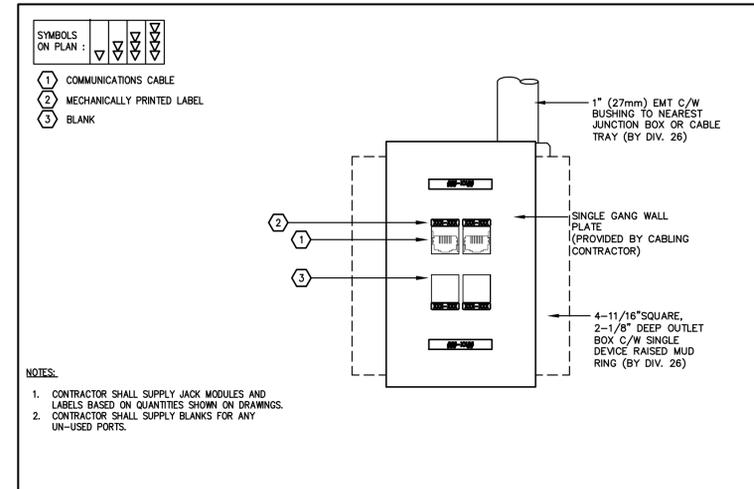
T-301



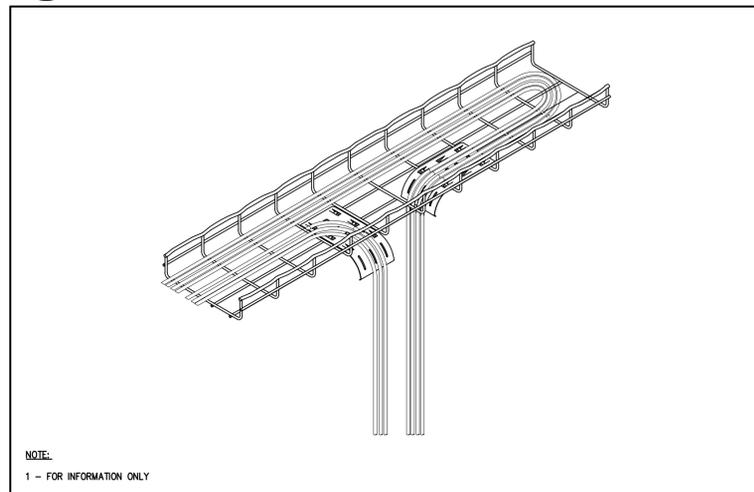
09 2-PORT SURFACE MOUNT BOX
 T-401 SCALE: N.T.S.



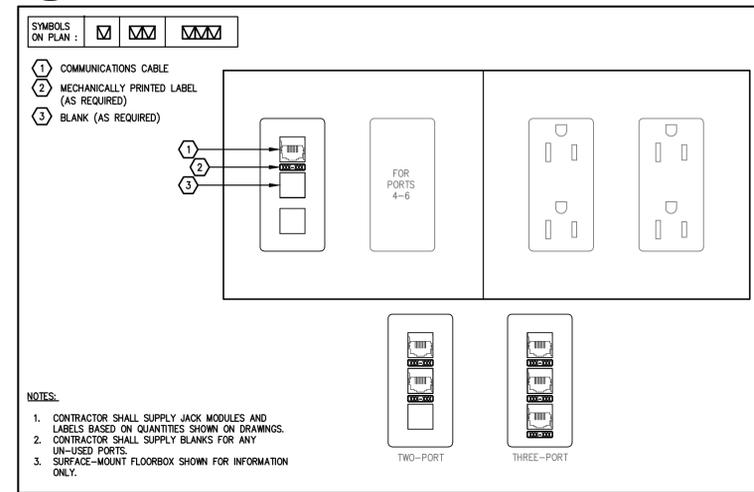
05 FACEPLATE / CABLE LABELLING (TYPICAL)
 T-401 SCALE: N.T.S.



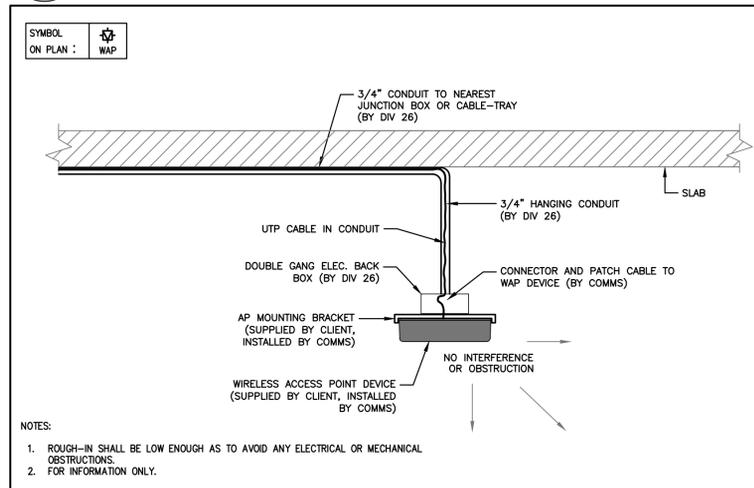
01 COMMUNICATIONS WALL OUTLET DETAIL
 T-401 SCALE: N.T.S.



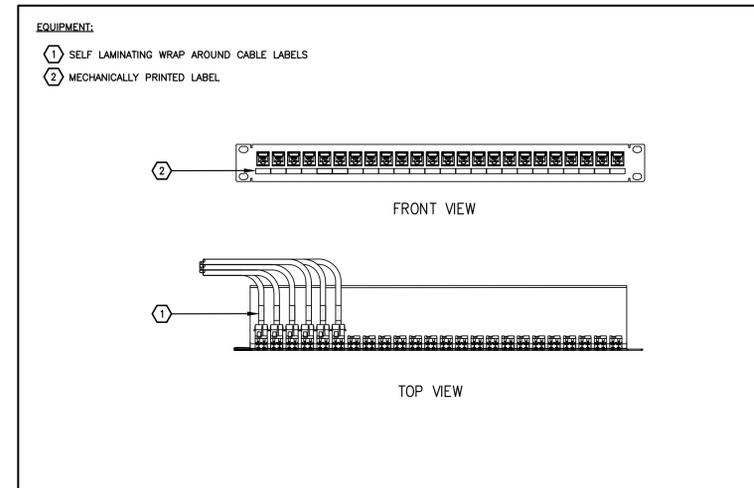
06 CABLE TRAY/WATERFALLS - CABLES SLACK DETAIL
 T-401 SCALE: N.T.S.



02 COMMUNICATIONS FLOOR OUTLET DETAIL
 T-401 SCALE: N.T.S.



08 WAP MOUNTING DETAIL - OPEN, HARD, OR DESIGN CEILING, TYPICAL
 T-401 SCALE: N.T.S.



03 PATCH PANEL / CABLE LABELLING (TYPICAL)
 T-401 SCALE: N.T.S.

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PRE-ENGINEERED BUILDING UTM

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DRAWING INDEX

| | |
|--------|--------------------------------|
| SD-001 | DRAWING LIST, NOTES AND LEGEND |
| SD-002 | SPECIFICATIONS |
| SD-201 | GROUND FLOOR SECURITY LAYOUT |
| SD-401 | DETAILS |

GENERAL NOTES

- SECURITY DEVICE LOCATIONS INDICATED ON DRAWINGS ARE APPROXIMATE. COORDINATE FINAL INSTALLATION LOCATIONS AND DETAILS WITH THE ARCHITECT. REFER TO ARCHITECTURAL DRAWINGS AND REVIEW SITE CONDITIONS FOR INSTALLATION REQUIREMENTS. ALL DETAILS SHOWN SHALL BE ADAPTED AS REQUIRED TO SUIT THE SITE CONDITIONS AND THE SPECIFIC APPLICATION.
- ARCHITECTURAL PLAN DRAWING BACKGROUNDS ARE FOR REFERENCE ONLY. REFER TO PROJECT ARCHITECTURAL DRAWINGS AND SITE CONDITIONS. SITE MEASURE FOR EXACT DIMENSIONS AND INSTALLATION REQUIREMENTS.
- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE BSS SPECIFICATIONS.
- PROVIDE ALL REQUIRED CUTTING, BORING, PATCHING AND FINISHING NECESSARY TO PROVIDE A COMPLETE INSTALLATION. PROVIDE ALL MOUNTS, BACK BOXES, ADAPTERS, FACEPLATES, BEZELS, TRIM, ETC. UNLESS OTHERWISE NOTED.
- PROVIDE COMPLETE SHOP DRAWINGS AND DETAILS FOR ALL PROPOSED INSTALLATIONS. OBTAIN ARCHITECT'S APPROVAL FOR ALL INSTALLATIONS.
- COORDINATE ALL INSTALLATIONS AND WORK. OBTAIN ALL NECESSARY APPROVALS AND PERMITS.
- PROVIDE ALL INSTALLATIONS IN COMPLIANCE WITH APPLICABLE CODES AND SITE INSTALLATION STANDARDS AND GUIDELINES.
- PROVIDE ALL DEVICES AND INSTALLATIONS WITH A COLOR AND FINISH TO MATCH THE INSTALLATION LOCATION. OBTAIN ARCHITECT'S APPROVAL FOR ALL INSTALLATION OF DEVICES AND COMPONENTS.
- NOTIFY THE ARCHITECT AND CONSULTANT OF ANY DRAWING DISCREPANCIES.
- ALL SECURITY SYSTEM CABLING SHALL BE INSTALLED WITHIN DEDICATED CONDUIT. PROVIDE ALL CONDUIT SLEEVES FOR SECURITY SYSTEM CABLING.
- CONDUIT SIZES INDICATED ON THE DRAWINGS AND HOME RUN SIZES SHOWN ON DETAIL SHEETS ARE TO BE CONSIDERED THE MINIMUM SIZE TO BE INSTALLED. PROVIDE LARGER OR ADDITIONAL CONDUIT IF REQUIRED. CONDUIT SIZES INDICATE DEDICATED HOME RUNS, BUT MAY BE COMBINED WITH OTHER LOCATIONS BY SYSTEM TYPE (CCTV, PACS, SIS) AS LONG AS CEC MAXIMUM FILL REQUIREMENTS ARE MAINTAINED. PROVIDE LARGER CONDUIT SIZES FOR COMBINED DEVICE HOME RUNS.
- UNLESS NOTED OTHERWISE, ALL CONDUIT AND BACKBOXES SHALL BE INSTALLED CONCEALED WITHIN WALLS AND ABOVE FINISHED CEILINGS. OBTAIN APPROVAL FOR ANY PROPOSED INSTALLATION OF EXPOSED OR SURFACE CONDUIT, DEVICES, ETC.
- SECURITY WIRING, CONDUIT AND JUNCTION BOXES SHALL BE INSTALLED ON THE SECURE SIDE OF DOOR (INSIDE SECURE SPACE).
- REFER TO THE BUILDING ELECTRICAL DRAWINGS FOR THE ELECTRICAL DISTRIBUTION PANEL AND POWER SUPPLY DETAILS.
- DO NOT COPY OR DISTRIBUTE THESE SECURITY DRAWINGS. UNAUTHORIZED DISTRIBUTION OF ANY PORTION OF THESE DRAWINGS, ELECTRONIC OR PAPER, IS PROHIBITED.

ABBREVIATIONS

| ABBR. | DEVICE |
|-------|------------------------------|
| AF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| CLG | CEILING |
| EX | EXISTING TO REMAIN |
| NIC | NOT IN CONTRACT |
| PB | PULL BOX |
| R | EXISTING TO DEMO (REMOVE) |
| RL | EXISTING TO RELOCATE |
| RP | RELOCATED POSITION |
| TEMP | TEMPORARY |
| TYP | TYPICAL |
| UPS | UNINTERRUPTIBLE POWER SUPPLY |
| UN | UNLESS OTHERWISE NOTED |
| WP | WEATHERPROOF |
| 1 | REFER TO DRAWING NOTE 1 |

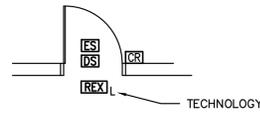
RESPONSIBILITY MATRIX

| SYSTEM WORK | ACCESS CONTROL | BIOMETRIC SYSTEM | GUESTROOM ACCESS | VIDEO MANAGEMENT | INTERCOM | DOOR HARDWARE |
|---|----------------|------------------|------------------|------------------|----------|---------------|
| ROUGH-IN & CONDUIT | ELEC | ELEC | ELEC | ELEC | ELEC | ELEC/DOOR |
| CABLING & TERMINATION | SEC | SEC/CBL | CBL | CBL | SEC/CBL | DOOR/SEC |
| FIELD DEVICE INSTALLATION & TERMINATION | SEC | SEC | SEC | SEC | SEC | DOOR/SEC |
| PROGRAMMING | SEC | SEC | SEC | SEC | SEC | N/A |
| COMMISSIONING & TESTING | SEC | SEC | SEC | SEC | SEC | DOOR/SEC |

ELEC = ELECTRICAL CONTRACTOR (DIV. 26)
CBL = STRUCTURED CABLING CONTRACTOR (DIV. 27)
SEC = SECURITY CONTRACTOR (DIV. 28)
DOOR = DOOR HARDWARE CONTRACTOR (DIV. 8)

BUILDING SECURITY SYSTEM (BSS) LEGEND

DEVICE TAG LEGEND



PHYSICAL ACCESS CONTROL SYSTEM (PACS)

| | |
|--------|---|
| [CR] T | PROXIMITY CARD READER (STANDARD) NO TAG = STANDARD WALL MOUNT E = ELEVATOR L = INTEGRAL TO LOCK SET K = WITH INTEGRAL KEYPAD T = TIME AND ATTENDANCE READER V = LONG RANGE / VEHICLE M = MULLION MOUNT |
| [GL] T | WIRELESS ELECTRONIC LOCK: G = WIRELESS GUESTROOM LOCK W/ INTEGRAL CARD READER AND DOOR STATUS (CONNECTED TO GUESTROOM MANAGEMENT SYSTEM) B = WIRELESS BACK OF HOUSE LOCK W/ INTEGRAL CARD READER AND DOOR STATUS (CONNECTED TO HOTEL ELECTRONIC ACCESS CONTROL SYSTEM) X = WIRELESS LOCK WITH EXIT TRIM AND DOOR STATUS E = WIRELESS LOCK WITH EXIT TRIM AND DOOR STATUS R = WIRELESS REMOTE CARD READER C/W EXTERNAL HARDWARE |
| [KP] T | KEYPAD O = OVERRIDE OR DISARM I = INTRUSION SYSTEM KEYPAD |
| [BI] T | BIOMETRIC ENTRY DEVICE F = FINGERPRINT C = FINGERPRINT W/ INTEGRAL CARD READER I = IRIS SCAN H = HAND GEOMETRY |

VIDEO MANAGEMENT SYSTEM (VMS)

| | |
|---------|--|
| [MON] T | VIDEO SURVEILLANCE MONITOR |
| [CAM] T | FIXED CAMERA NO TAG = INTERIOR DOME CAMERA (RECESSED) S = DOME CAMERA (SURFACE MOUNT) E = ELEVATOR MOUNT P = POLE MOUNT F = SOFFIT MOUNTED W = WALL MOUNT 180/360 = 180°/360° PANORAMIC VIEW CAMERA PD = PENDANT MOUNT H = THERMAL CAMERA IR = INFRARED CAMERA |
| [PTZ] T | PTZ CAMERA NO TAG = INTERIOR PTZ P = POLE MOUNT PTZ H = THERMAL CAMERA |
| [KEY] T | VIDEO CONTROL KEYBOARD |
| [REC] T | RECORDING EQUIPMENT N = NETWORK VIDEO RECORDER D = DIGITAL VIDEO RECORDER (ANALOG) A = AUDIO RECORDER |
| [ENC] T | ANALOG TO DIGITAL VIDEO ENCODER |

LOCKING DEVICES & ACCESSORIES

| | |
|--------|---|
| [EL] T | ELECTRONIC LOCK X = WITH INTEGRAL REQUEST TO EXIT SWITCH E = ELECTRIC LATCH RETRACTION P = PANIC HARDWARE L = INTEGRAL TO LOCK SET D = PANIC HARDWARE W/ DELAYED EGRESS M = WITH INTEGRAL LATCH BOLT MONITORING |
| [ES] T | ELECTRIC STRIKE M = WITH INTEGRAL LATCH BOLT MONITORING H = HEADER MOUNT STRIKE R = RIM MOUNT |
| [ML] T | MAGNETIC LOCK B = MAGNETIC LOCK WITH INTEGRAL BOND SENSOR |
| [PT] T | POWER TRANSFER HINGE (BY OTHERS) |
| [CO] T | CONTROL OUTPUT RELAY A = AUTO DOOR OPERATOR O = OVERHEAD DOOR T = TURNSTILES V = VEHICLE BARRIER / BOLLARD / GATE E = ELEVATOR CONTROL |

COMMUNICATIONS

| | |
|---------|---|
| [IC] T | INTERCOM STATION NO TAG = AUDIO SUB STATION M = INTERCOM MASTER STATION V = AUDIO/VIDEO SUB STATION E = DIRECTORY ENTRY PHONE P = PARKING/DURESS ASSISTANCE STATION VM = AUDIO/VIDEO MASTER STATION |
| [TEL] T | TELEPHONE DIALER D = DIGITAL (VOIP) V = VOICE (PBX) M = 24/7 MONITORING |
| [RX] T | TRANSCEIVER/COMMUNICATION DEVICE C = WIRELESS CARD READER V = WIRELESS VEHICLE FOB READER L = WIRELESS LOCK SET G = WIRELESS GUESTROOM CARD READER W = WIRELESS GUESTWAY |
| [NET] T | NETWORK SWITCH NO TAG = STANDARD SWITCH C = CORE SWITCH |
| [FO] T | FIBER OPTIC TRANSCEIVER V = VIDEO D = DATA TX = TRANSMITTER RX = RECEIVER |
| [RF] T | RF VIDEO/DATA TRANSCEIVER |

SENSORS & INPUT DEVICES

| | |
|---------|--|
| [DS] T | DOOR POSITION SWITCH NO TAG = STANDARD MAGNETIC I = INTEGRAL TO LOCK SET O = OVERHEAD DOOR T = CABINET TAMPER SWITCH |
| [PB] T | PUSH BUTTON D = DURESS R = REMOTE RELEASE C = CALL A = ALARM ACKNOWLEDGEMENT |
| [REX] T | REQUEST TO EXIT DEVICE M = MOTION SENSOR P = PUSH BUTTON T = TOUCHLESS SENSOR L = INTEGRAL TO LOCK SET K = KEY SWITCH |
| [MD] T | MOTION DETECTOR NO TAG = MICROWAVE IR = INFRARED D = DUAL TECHNOLOGY U = ULTRASONIC B = BURRIED INTRUSION |
| [GB] T | GLASS BREAK SENSOR |
| [ID] T | INTRUSION/DETECTION DEVICE V = VIBRATION F = FENCE MOUNTED FIBER OPTIC B = BURIED COAXIAL CABLE P = PHOTO BEAM SENSOR |
| [SEN] T | MONITORING SENSOR B = TEMPERATURE W = WATER L = LATCH H = HUMIDITY S = SAFE P = PARKING BARRIER POSITION |
| [KS] T | MANUALLY OPERATED KEY SWITCH |
| [FA] T | ADDRESSABLE FIRE ALARM RELEASE RELAY |
| [M] T | MANUAL PULL STATION C/W AUXILIARY CONTACT (BY OTHERS) |

COMPUTER & PERIPHERAL COMPONENTS

| | |
|---------|--|
| [SRV] T | SERVER COMPUTER/CPU A = PHYSICAL ACCESS CONTROL V = VIDEO MANAGEMENT I = INTERCOM EXCHANGE F = FRONT OF HOUSE DOOR LOCKING |
| [MKS] T | MONITORING WORKSTATION A = PHYSICAL ACCESS CONTROL V = VIDEO MANAGEMENT R = VISITOR REGISTRATION / KIOSK G = GUARD TOUR B = BADGING |
| [KVM] T | RACK MOUNTED KVM SWITCH WITH INTEGRAL KEYBOARD, MOUSE AND LCD SCREEN |
| [PRN] T | PRINTER A = ALARM REPORT C = CARD/ID V = VISITOR BADGE |
| [ENC] T | ENCODER DEVICE NO TAG = KEY CARD ENCODER B = BIOMETRIC ENROLMENT |

BARRIERS & VEHICLE CONTROLS

| | |
|--------|--|
| [TS] T | TURNSTILE F = FULL HEIGHT O = OPTICAL |
| [VB] T | VEHICLE CONTROL BARRIER NO TAG = PARKING ARM B = RISING BOLLARD S = SLIDING GATE W/ WEDGE O = OVERHEAD GRILLE/SHUTTER |
| [PC] T | PARKING CONTROL DEVICE A = AUTOMATIC VEHICLE ID READER W = WIRELESS RECEIVER T = TICKET DISPENSER F = PAY ON FOOT STATION P = PAY IN LANE STATION L = LOT FULL SIGNAGE |
| [VS] T | VEHICLE SENSOR NO TAG = INDUCTION LOOP B = BEAM DETECTOR |

MISCELLANEOUS SECURITY COMPONENTS

| | |
|---------|--|
| [SCR] T | SCREENING DEVICE M = METAL DETECTOR T = TAG SENSOR (EAS) H = HANDCAG X-RAY C = CARGO/MAIL X-RAY L = LUGGAGE X-RAY |
| [ICP] T | INTELLIGENT CONTROL PANEL NO TAG = PACS V = VOICE INTERCOM I = INTRUSION P = PARKING |
| [RFP] T | REMOTE FIELD PANEL NO TAG = PACS F = FENCE DETECTION |
| [PS] T | POWER SUPPLY L = ELECTRIC LOCK M = MAGNETIC LOCK / FAIL SAFE P = PANEL C = CAMERA I = INTERCOM A = AUXILIARY DEVICES |
| [AA] T | AUDIBLE/VISIBLE ALARM DEVICE NO TAG = LOCAL AUDIBLE ALARM B = BUZZER S = SPEAKER C = CHIME V = AUDIBLE W/ STROBE |
| [VA] T | VISUAL ALARM DEVICE NO TAG = STROBE LIGHT L = LED INDICATOR (IN CUSTOM ENCLOSURE OR FACE PLATE) |
| [BP] T | 20mm FIRE RATED PLYWOOD |
| [AD] T | AUTOMATIC DOOR OPERATOR WITH BARRIER-FREE PUSH BUTTONS (BY OTHERS) |

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| 2. | ISSUED FOR PERMIT | 10-11-2024 |
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UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT

PRE-ENGINEERED BUILDING

3359 MISSISSAUGA ROAD

TITLE

LEGEND, DRAWING LIST AND NOTES

THEHIDIGROUP
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Toronto, ON M2H 3N5 Canada
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DATE : FEB 2024
PROJECT NO : 2023-0059
DRAWN BY : SS
CHECKED BY : DR

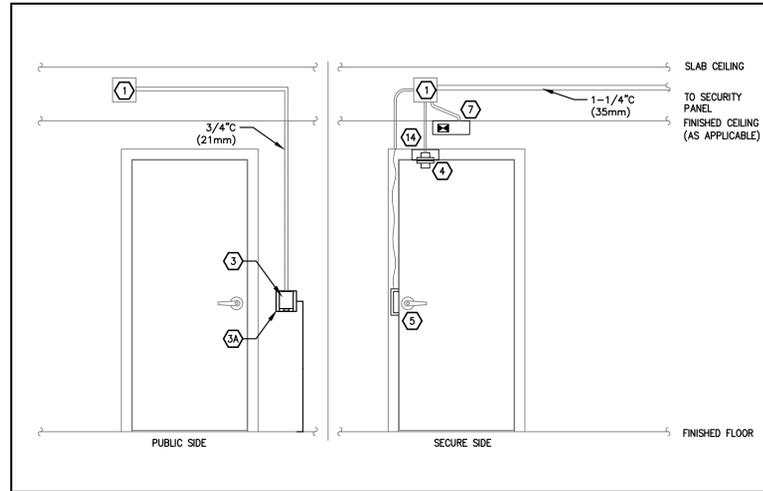
SD-001

DOOR LEGEND & MATERIALS

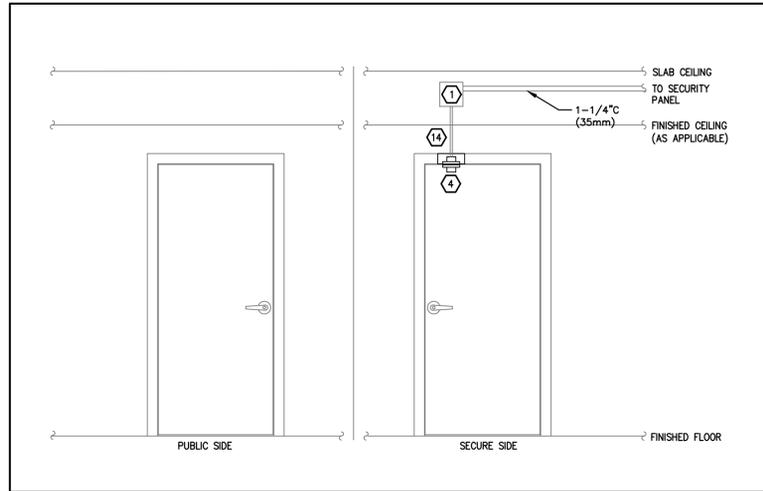
- ① SECURITY JUNCTION BOX ON SECURE SIDE OF DOOR (BY ELECTRICAL)
- ② MAGNETIC LOCK
- ③ PROXIMITY CARD READER
- ③A DOUBLE GANG BACK BOX W/ SINGLE GANG TRIM PLATE (BY ELECTRICAL)
- ④ RECESSED DOOR POSITION SWITCH
- ⑤ ELECTRIC STRIKE
- ⑥ POWER TRANSFER HINGE
- ⑦ REQUEST TO EXIT MOTION DETECTOR
- ⑧ REQUEST TO EXIT PUSH BUTTON
- ⑨ AUTO DOOR OPERATOR EQUIPMENT (BY DOOR HARDWARE)
- ⑩ CONCEALED LATCHING DURESS BUTTON
- ⑪ SINGLE GANG LATCHING DURESS
- ⑫ MANUAL FIRE ALARM PULL STATION C/W AUXILIARY CONTACTS (BY FIRE ALARM CONTRACTOR)
- ⑬ MECHANICAL FLUSH BOLT
- ⑭ DUST BOX / MORTAR SHIELD IN FRAME AS REQUIRED (BY DOOR HARDWARE)
- ⑮ OVER HEAD DOOR POSITION SENSOR WITH FLEXIBLE ARMOR CONDUIT
- ⑯ AUTOMATIC DOOR OPERATOR PUSHBUTTON (BY DOOR HARDWARE)
- ⑰ GUESTROOM WIRELESS LOCKSET W/ INTEGRATED CARD READER AND DOOR POSITION SWITCH
- ⑱ WIRELESS LOCK GATEWAY
- ⑲ PANIC BAR
- ⑳ RETRACTABLE LATCH
- ㉑ FOH REMOTE CARD READER BEHIND DECORATIVE PLATE
- ㉒ ELECTRIC MORTISE LOCK W/ INTEGRATED REQUEST TO EXIT
- ㉓ WIRELESS LOCK SET WITH INTEGRATED CARD READER, DOOR SWITCH, AND REQUEST TO EXIT
- ㉔ INTERCOM
- ㉕ ELECTRIFIED PANIC W/ INTEGRATED REQUEST TO EXIT
- ㉖ WIRED LOCK GATEWAY
- ㉗ GUESTROOM MANAGEMENT SYSTEM CONTROLLER BY GUESTROOM MANAGEMENT

LINE TYPES LEGEND

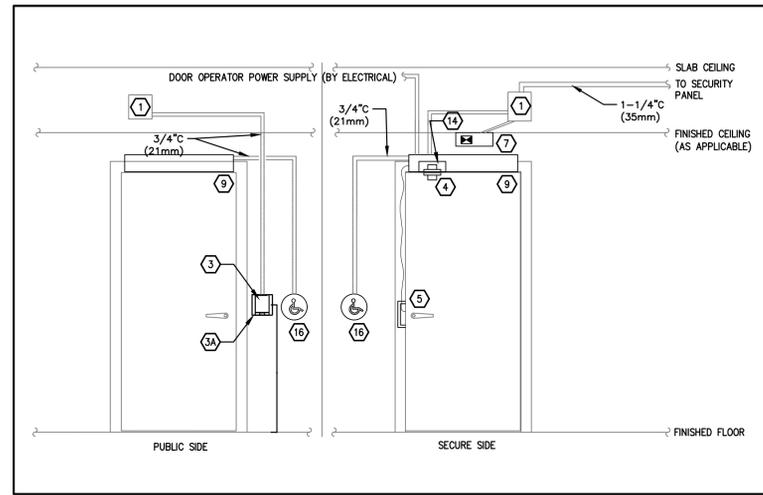
- CABLE RAN INSIDE DOOR FRAMES/DOORS
- CONDUIT INSTALLED IN WALL SPACE
- CONDUIT INSTALLED IN CEILING SPACE



01 SINGLE DOOR W/ READER IN, ELECTRIC STRIKE
SD-401 SCALE: N.T.S.



02 MONITORED SINGLE DOOR
SD-401 SCALE: N.T.S.



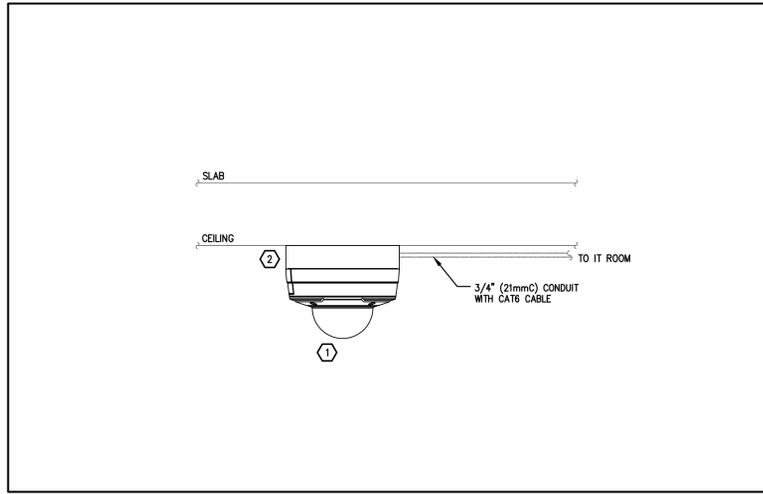
03 SINGLE DOOR W/ READER IN, BARRIER FREE, ELECTRIC STRIKE
SD-401 SCALE: N.T.S.

CAMERA LEGEND & MATERIALS

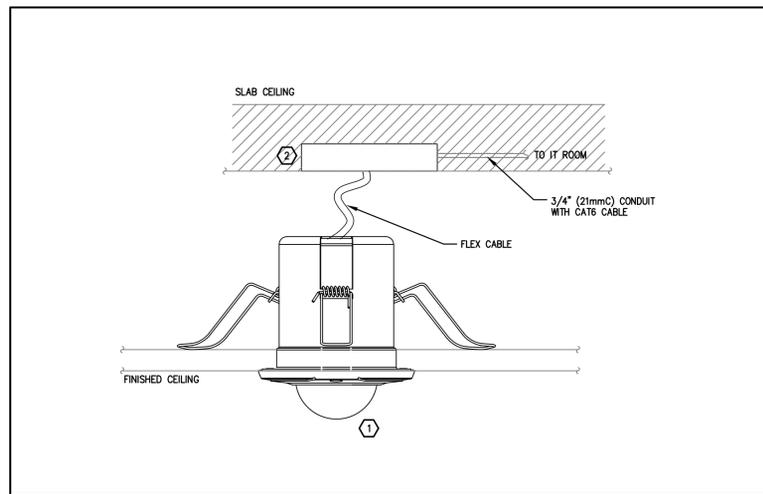
- ① SECURITY CAMERA
- ② SECURITY JUNCTION BOX
- ③ UTP MEDIA CONVERTOR
- ④ POE INJECTOR
- ⑤ CAMERA POWER SUPPLY
- ⑥ RECEPTACLE (BY ELECTRICAL CONTRACTOR)
- ⑦ PENDANT ADAPTOR
- ⑧ SECURITY JUNCTION BOX
- ⑨ STEEL STRAPS
- ⑩ PENDANT KIT
- ⑪ AUXILIARY DEVICE (GLASS BREAK, AUDIBLE ALARM, MOTION DETECTOR, ETC.)
- ⑫ BLUE STROBE LIGHT
- ⑬ PUSH RED BUTTON FOR ASSISTANCE
- ⑭ SPEAKER
- ⑮ MICROPHONE
- ⑯ VIDEO CAMERA FOR ASSISTANCE STATION
- ⑰ PARAPET MOUNT

LINE TYPES LEGEND

- CABLE RAN INSIDE DOOR FRAMES/DOORS
- CONDUIT INSTALLED IN WALL SPACE



04 TYPICAL SURFACE MOUNT CAMERA
SD-401 SCALE: N.T.S.



05 TYPICAL RECESSED MOUNTED CAMERA
SD-401 SCALE: N.T.S.

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PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

TITLE
DETAILS

THEHIDIGROUP
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Toronto, ON M2H 3N5 Canada
t. 416 364 2100 | HIDI.com

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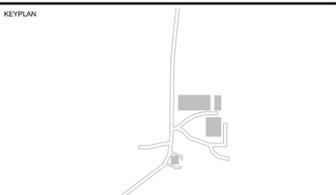
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| PROJECT NO: 2023-0059 | |
| DRAWN BY: SS | |
| CHECKED BY: DR | |

SD-401

UNIVERSITY OF TORONTO MISSISSAUGA - ROBOTICS LABORATORY ENVIRONMENT BUILDING

3359 MISSISSAUGA ROAD
AUDIO-VISUAL SYSTEMS DRAWINGS
ISSUED FOR AV TENDER - 2024.11.15



| SCOPE ITEM | AUDIOVISUAL CONTRACTOR (A.V.C.) | ELECTRICAL CONTRACTOR (E.C.) | GENERAL CONTRACTOR (G.C.) | COMMUNICATIONS CONTRACTOR (C.C.) |
|---|--|--|--|--|
| AV SYSTEMS CONDUIT, BACKBOXES AND CABLE TRAYS | – | PROVIDE PULL-READY SYSTEM INCLUDING ALL CONDUIT, BACKBOXES AND CABLE TRAYS. ALL CONDUITS TO BE COMPLETE WITH PULLSTRING. | – | – |
| AV WALLBOX CONNECTOR PLATES, CUSTOM OR STANDARD | PROVIDE, FINISH PER ARCHITECT'S INSTRUCTIONS | – | – | – |
| AV FLOORBOXES | MODIFY PLATES TO SUIT FLOORBOX AND INSTALL | PROVIDE FLOORBOX; COORDINATE BOX TYPE WITH AV CONSULTANT; SUPPLY SAMPLE IF REQUESTED, SUPPLY BLANK PLATES TO AV CONTRACTOR | – | – |
| AV SYSTEMS CABLE (LOW VOLTAGE, INCLUDING NETWORK CABLING WITH PATCH CABLES FOR AV SYSTEMS) | PROVIDE | – | – | – |
| AC OUTLETS FOR DISPLAYS, PROJECTORS, AV EQUIPMENT, FLOORBOXES, ETC | – | PROVIDE | – | – |
| DIRECT POWER CONNECTIONS FOR AV SYSTEMS RACKS | PROVIDE DISTRIBUTION WITHIN RACK | PROVIDE POWER CIRCUITS AS REQUIRED AT LOCATIONS NOTED ON DRAWINGS. COORDINATE LOCATIONS WITH AV CONTRACTOR. PROVIDE SEPARATE NEUTRAL CONDUCTOR FOR EACH CIRCUIT. | – | – |
| LAN DROPS FOR OWNER NETWORK | SPECIFY LOCATIONS AND COORDINATE WITH C.C. | – | – | PROVIDE. REFER TO COORDINATION MATRIX FOR LOCATIONS AND QUANTITIES |
| PATCH CABLING TO CLIENT NETWORK FOR AV DEVICES | INSTALL | – | – | SUPPLY |
| MILLWORK FURNITURE (TABLES, RACK ENCLOSURES, LECTERNS AND CREDENZAS) | FIT-UP MILLWORK WITH AV DEVICES, COORDINATE WITH DESIGNERS, G.C., E.C. AND FURNITURE/MILLWORK MANUFACTURER | PROVIDE POWER AND LAN CONNECTIVITY SHOWN ON DRAWINGS AND INSTALL ROUGH-INS AS REQUIRED | PROVIDE AND COORDINATE CUTOUTS, WIRING AND DEVICE PLACEMENTS | – |
| DISPLAY AND PROJECTOR MOUNTING | SUPPLY AND INSTALL STANDARD OR CUSTOM BRACKETS AS REQUIRED | – | PROVIDE BLOCKING AND MISCELLANEOUS METALS AS REQUIRED | – |
| CEILING MOUNTED LOUDSPEAKER BACKBOXES INTO DRYWALL CEILINGS | PROVIDE | PROVIDE CONDUIT TO SPEAKER BACKBOXES. COORDINATE WITH AV CONTRACTOR ON SITE | PROVIDE CEILING SPEAKER CUTOUTS | – |
| CEILING MOUNTED LOUDSPEAKERS INTO TILE CEILINGS | PROVIDE | – | PROVIDE CEILING SPEAKER CUTOUTS | – |
| AV SYSTEMS ELECTRONICS, HARDWARE, RACKS (PERMANENT AND PORTABLE) | PROVIDE; REUSE OWNER SUPPLIED EQUIPMENT AS NOTED IN TENDER DOCUMENTS | – | – | – |
| AV CONTROL SYSTEM PAGE DESIGN AND TESTING | PROVIDE; WRITE ALL PROGRAMMING CODE; DESIGN AND IMPLEMENT | – | – | – |
| LOW VOLTAGE RELAY CONTROLLERS (LVC) FOR MOTORIZED PROJECTION SCREENS AND LIFTS | SUPPLY LVC TO E.C.; PROVIDE LOW VOLTAGE CONTROL CABLE | PROVIDE HIGH VOLTAGE CABLE, TERMINATIONS AND LABOR AS REQUIRED | PROVIDE ACCESS HATCH AS REQUIRED FOR BACKBOX ACCESS | – |
| INTELLIGENT LIGHTING AND BLIND/SHADE SYSTEMS | CONNECT AV CONTROL SYSTEM TO RS-232 PROTOCOL CONVERTER. COORDINATE INSTALLATION LOCATION WITH E.C. | PROVIDE LIGHTING/BLIND SYSTEM TO RS-232 PROTOCOL CONVERTER. COORDINATE INSTALLATION LOCATION WITH A.V.C. | PROVIDE BLINDS SYSTEM AND SHADE MOTOR GROUP CONTROLLERS. | – |
| CEILING RECESSED PROJECTION SCREENS | PROVIDE | PROVIDE HIGH VOLTAGE CABLE TO LVC | PROVIDE CUTOUT. FINISH CEILING AFTER INSTALLATION. | – |
| FIRE ALARM CONNECTION | PROVIDE MUTE FUNCTIONALITY ON ALL SOUND SYSTEMS. TO BE TRIGGERED ON ACTIVATION OF FIRE ALARM. | PROVIDE FACP DRY CONTACT RELAY CONNECTION TO AV CONTRACTOR | – | – |
| REMOVAL OF EXISTING INSTALLED AUDIOVISUAL EQUIPMENT NOT PLANNED FOR REUSE | COORDINATE. IF AV CONTRACTOR IS NOT ONBOARD, COORDINATE WITH AV CONSULTANT. | – | PROVIDE REMOVAL AND DISPOSAL | – |
| THE SCOPE OF WORK OF THE TRADES AS IT RELATES TO AUDIO VISUAL SYSTEMS IS DESCRIBED IN THE TABLE ABOVE. THE TERM "PROVIDE" MEANS "SUPPLY, INSTALL, TERMINATE, TEST AND COMMISSION" | | | | |

2 DIVISION OF RESPONSIBILITY
AV000

| AV DRAWING LIST | |
|-----------------|---|
| DWG NO. | DRAWING TITLE |
| AV000 | AV DRAWING LIST |
| AV001 | AV LEGENDS, NOTES & COORDINATION MATRIX |
| AV101A | GROUND LEVEL – AV DEVICE FLOOR PLAN |
| AV101B | GROUND LEVEL – AV DEVICE FLOOR RCP |
| AV200 | AV ELEVATIONS |
| AV300 | AV CONDUIT NOTES |
| AV301 | AV RISER DIAGRAMS |
| AV400 | AV DETAILS |
| AV401 | AV DETAILS |
| AV500 | AV FUNCTIONALS |
| AV501 | AV FUNCTIONALS |
| AV502 | AV FUNCTIONALS |

1 DRAWING LIST
AV000

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Baird Sampson Neuert

416.363.8877 bsnarchitects.com

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| DATE: | | | |
| PROJECT NO.: | | | |
| DRAWN BY: | S.R. | | |
| CHECKED BY: | P.G. | | |

| AUDIOVISUAL | | | | ELECTRICAL | | | | | | | COMMUNICATION | MECHANICAL | GENERAL | |
|---|--------|-------|----------------------------------|---|---------------------------------|-------------|-------------|----------------|-------------|-------|-----------------------------|------------------|---------|--|
| DEVICE DETAILS | | | | REQUIREMENTS | | | | | | | LAN DROPS FOR OWNER NETWORK | HEAT LOAD | NOTES | |
| SYMBOL NAME | SYMBOL | ID | MOUNTING HEIGHT (TO CENTRE LINE) | AV BACKBOX/MUDRING SIZE | BACKBOX/MUDRING MOUNTING HEIGHT | VOLTAGE [V] | CURRENT [A] | UNIT POWER [W] | GROUND TYPE | TYPE | | QUANTITY | | UNIT HEAT [BTU] |
| 65" WALL MOUNT FLAT PANEL DISPLAY | | FPD1 | 1625mm (64") AFF | (1)2 GANG AV MUDRING | 1830mm (72") AFF | 120 | 2 | 240 | NORMAL | 5-15R | (1)QUAD | (2)NETWORK DROPS | 818.88 | |
| 32" WALL MOUNT FLAT PANEL DISPLAY | | FPD2 | 1625mm (64") AFF | (1)2 GANG AV MUDRING | 1830mm (72") AFF | 120 | 1 | 120 | NORMAL | 5-15R | (1)QUAD | (2)NETWORK DROPS | 409.44 | |
| SHORT THROW PROJECTOR | | PROJ | 2685mm (106") AFF | (1)2 GANG AV MUDRING | 2685mm (106") AFF | 120 | 4 | 480 | NORMAL | 5-15R | (1)QUAD | - | 1637.76 | |
| WALL MOUNT PTZ CAMERA | | CAM1 | 2135mm (84") AFF | (1)2 GANG AV MUDRING | 2135mm (84") AFF | - | - | - | - | - | - | - | - | |
| CEILING MOUNT PTZ CAMERA | | CAM2 | AT FINISHED CEILING | - | - | - | - | - | - | - | - | - | - | |
| FLOORBOX TABLE MONUMENT | | FB1 | AT FINISHED FLOOR | (1)2 GANG OPENING AT FLOORBOX | AT FINISHED FLOOR | 120 | 1 | 120 | NORMAL | 5-15R | (1)DUPLX | (2)NETWORK DROPS | 409.44 | |
| PODIUM | | FB2 | AT FINISHED FLOOR | (1)4 GANG OPENING AT FLOORBOX | AT FINISHED FLOOR | 120 | 20.00 | 2400 | ISOLATED | 5-20R | (2)DUPLX | (6)NETWORK DROPS | 5118 | DEDICATED CIRCUITS REQUIRED, WITH ISOLATED GROUND, FIRE ALARM, LIGHTING INTERCONNECTION REQUIRED. |
| WALL MOUNT BUTTON CONTROL PANEL | | BP | AT SWITCH HEIGHT | (1)1 GANG AV MUDRING | AT SWITCH HEIGHT | - | - | - | - | - | - | - | - | |
| WIRELESS MIC ANTENNA | | ANT1 | AT FINISHED CEILING | (1)1 GANG AV BACKBOX | AT FINISHED CEILING | - | - | - | - | - | - | - | - | |
| WIRELESS ASSISTIVE LISTENING SYSTEM ANTENNA | | ALS | 2135mm (84") AFF | (1)1 GANG AV BACKBOX | 2135mm (84") AFF | - | - | - | - | - | - | - | - | |
| CEILING MICROPHONE | | MIC1 | AT FINISHED CEILING | - | - | - | - | - | - | - | - | - | - | |
| PENDANT SPEAKERS | | S1 | AT FINISHED CEILING | (1)1 GANG AV BACKBOX | AT FINISHED CEILING | - | - | - | - | - | - | - | - | |
| CREDENZA RACK | | RACK1 | AT RECEPTACLE HEIGHT | (1)PULL BOX SIZED TO CONDUIT REQUIREMENTS | AT RECEPTACLE HEIGHT | 120 | 20.00 | 2400 | ISOLATED | 5-20R | (2)QUAD | (4)NETWORK DROPS | 5118 | DEDICATED CIRCUITS REQUIRED, WITH ISOLATED GROUND, FIRE ALARM & LIGHTING INTERCONNECTION REQUIRED. |

3 AV001 AV COORDINATION MATRIX

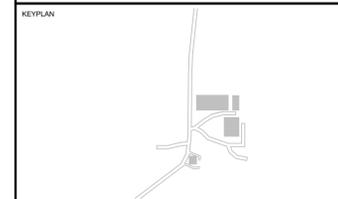
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER CONSULTANT'S DRAWINGS AND SPECIFICATION. ANY DISCREPANCIES OR CONFLICT BETWEEN CONSULTANT'S DRAWINGS FOR A/V SCOPE, SHALL BE REPORTED TO S+A IMMEDIATELY FOR CLARIFICATION.
- ALL EQUIPMENT AND CABLING HAVE BEEN SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. CONTRACTOR IS TO PROVIDE SHOP DRAWINGS FOR ALL HARDWARE, FIXTURES AND EQUIPMENT, FOR CONSULTANT'S APPROVAL PRIOR TO PURCHASE.
- ALL DEVICE LOCATIONS ARE SCHEMATIC ONLY. EXACT LOCATIONS SHOULD BE LOCATED USING ARCHITECTURAL OR INTERIOR DESIGN DRAWINGS. IF LOCATION IS UN-CLEAR A REQUEST FOR INFORMATION SHOULD BE ISSUED.
- CONTRACTOR TO ENSURE ALL WORK INSTALLATIONS ARE IN COMPLIANCE WITH ALL AUTHORITIES HAVING JURISDICTION.
- CONTRACTOR MUST REVIEW SITE AND ENSURE ALL AV WORK WITHIN EXTENT IS INCLUDED IN THE AV CONTRACT.
- CARE AND ATTENTION SHALL BE MADE TO ALL DRAWING NOTES AND ITEMS INCLUDED WITHIN SPECIFICATION FOR INCLUSION IN SCOPE OF WORK. QUESTIONS OR CONCERNS SHALL BE REPORTED TO CONSULTANT BY THE BIDDER PRIOR TO AWARD FOR TENDER. OTHERWISE, SUCCESSFUL BIDDER ASSUMES ALL RESPONSIBILITY FOR INCLUDING ALL EQUIPMENT AND PROVISIONS AS STATED WITHIN THE DRAWING AND SPECIFICATION PACKAGE IN SCOPE OF WORK.
- ALL EQUIPMENT INSTALLATIONS SHALL ADHERE TO EXACT MANUFACTURERS SPECIFICATIONS AND REQUIREMENTS. ANY INSTALLATIONS NOT MEETING CORRECT INSTALLATION METHODS AS OUTLINED BY THE MANUFACTURER SHALL BE RECTIFIED TO OPERATE AS INTENDED AT THE EXPENSE OF THE CONTRACTOR.
- CONTRACTOR TO COORDINATE ON SITE WITH OTHER TRADES FOR EXACT LOCATION AND MOUNTING HEIGHTS OF REQUIRED BACKBOXES AND RECEPTACLES FOR DISPLAYS, PROJECTORS, SPEAKERS AND OTHER AV EQUIPMENT. ALL RECEPTACLES SHALL BE CONCEALED BEHIND EQUIPMENT.
- ALL EQUIPMENT MUST BE SECURELY FASTENED AND INSTALLED TO SUPPORT WEIGHT, USER FUNCTION AND OPERATION. SCREENS SHALL BE ANCHORED TO STUDS AND SUPPORTED BY THREADED RODS AND CHAIN LINKS. PROJECTOR POLE MOUNTS AND DISPLAYS SHALL ALSO BE ANCHORED TO STUDS, AS REQUIRED TO SUPPORT EQUIPMENT FUNCTION. CONTRACTOR TO WARRANTY INSTALLATION FROM ANY IMPROPER INSTALLATION WITH NO EXPENSE TO THE USER.
- AV CONTRACTOR SHALL INCLUDE FOR ALL MISCELLANEOUS CONNECTORS, SIGNAL CONVERTERS, SIGNAL REPEATERS, EXPANSION MODULES, POLE EXTENSIONS, SHELVING, MOUNTING HARDWARE ETC. THAT IS NOT STATED BUT IS REQUIRED TO COMPLETE THE SCOPE OF WORK AND PROVIDE THE SYSTEM FUNCTIONALITY AS WAS INTENDED WITH NO DEGRADATION IN QUALITY AND PERFORMANCE. ANY CONCERNS WITH RESPECT TO EQUIPMENT NOT INCLUDED WITHIN THE SCOPE OF WORK SHALL BE REPORTED TO THE CONSULTANT PRIOR TO TENDER CLOSE FOR INCLUSION. FAILURE TO DO SO WILL BE AT THE EXPENSE OF THE BIDDER/SUCCESSFUL CONTRACTOR DURING CONSTRUCTION AND EXTRAS WILL NOT BE TOLERATED.
- REVIEW ALL PROJECT RELATED ARCHITECTURAL, MECHANICAL, ELECTRICAL, COMMUNICATIONS AND SECURITY DRAWINGS AND SPECIFICATIONS, DISCERN AND COORDINATE ALL OVERLAPPING WORK WITH AUDIOVISUAL SYSTEMS TO AVOID COLLISIONS AND CONFLICTS OF DEVICES.
- DEVICES SHALL NOT BE INSTALLED IN WALL AREAS THAT ARE DESIGNATED TO HAVE MARKER BOARD, FABRIC PANELS, OR ACCENT FINISHES/DETAIL UNLESS INDICATED SPECIFICALLY ON AN ELEVATION DRAWING.
- DEVICES SHALL NOT BE INSTALLED ABOVE ANY FURNITURE - AND SHALL BE LOCATED WHERE THERE IS ADEQUATE ACCESS FOR USE UNLESS INDICATED SPECIFICALLY ON AN ELEVATED DRAWING.
- INFORM THE ENGINEER'S REPRESENTATIVE AND GC OF ALL DEVICE AND FURNITURE CONFLICTS PRIOR TO INSTALLATION. OBTAIN RESOLUTION TO DEVICE AND FURNITURE CONFLICTS FROM THE ENGINEER'S REPRESENTATIVE PRIOR TO INSTALLATION.

1 AV001 GENERAL NOTES - AUDIOVISUAL BIDDER INFORMATION

| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|-------------|--|-------------|--|
| | AUDIO VISUAL SYSTEM | PROJ-## | PROJECTOR. |
| | DEVICE IDENTIFICATION NUMBER | LIFT-## | PROJECTOR ON LIFT. |
| RACK-## | AV EQUIPMENT RACK RACK 'ID' DESIGNATION: 'AV' = FREE STANDING EQUIPMENT RACK. 'CR' = CREDENZA RACK. 'RC' = RACK ON CASTERS. | SCR-## | PROJECTION SCREEN. NOTE: 'XX' DENOTES SCREEN SIZE (IN INCHES) |
| TAG-## | WALL MOUNT FLAT PANEL DISPLAY. DISPLAY 'TAG' DESIGNATION: 'FPD' = FLAT PANEL DISPLAY. 'IAD' = INTERACTIVE DISPLAY. 'DS' = DIGITAL SIGNAGE DISPLAY. 'MW' = MEDIA WALL DISPLAY(S). SEE DRAWING FOR QUANTITIES. 'VW' = VIDEO WALL NOTE: 'XX' DENOTES SCREEN SIZE (IN INCHES) | TAG-## | CEILING RECESSED SPEAKER. 'S' = AV SPEAKER. 'POS' = PAGING SPEAKER. |
| TAG-## | CEILING MOUNT FLAT PANEL DISPLAY. DISPLAY 'TAG' DESIGNATION: 'PMD' = POLE MOUNT FLAT PANEL DISPLAY. 'PDD' = POLE MOUNT DUAL FLAT PANEL DISPLAYS. NOTE: 'XX' DENOTES SCREEN SIZE (IN INCHES) | TAG-## | SURFACE MOUNT SPEAKER. 'TAG' DESIGNATION: 'S' = AV SPEAKER. 'POS' = PAGING SPEAKER. 'SC' = SPEAKER CLUSTER |
| TAG-## | WALL MOUNT AV INTERFACE. 'TAG' DESIGNATION: 'RSD' = ROOM SCHEDULING DISPLAY. 'MRD' = MEETING ROOM DISPLAY. 'CTL' = TOUCH CONTROL PANEL. NOTE: 'XX' DENOTES SCREEN SIZE (IN INCHES) | TAG-## | WALL MOUNT ANTENNA. 'TAG' DESIGNATION: 'ANT' = MICROPHONE ANTENNA. 'ALS' = ASSISTIVE LISTENING ANTENNA. |
| TAG-## | BUTTON CONTROL PANEL BY AUDIOVISUAL CONTRACTOR. 'TAG' DESIGNATION: 'BP' = BUTTON PANEL. 'VC' = VOLUME CONTROL. 'SC' = SCREEN CONTROL (FOR PROJECTION SCREENS). | TAG-## | CEILING MOUNT ANTENNA. 'TAG' DESIGNATION: 'ANT' = MICROPHONE ANTENNA. 'ALS' = ASSISTIVE LISTENING ANTENNA. |
| FB-## | FLOORBOX CONNECTION FOR TABLETOP CONNECTIVITY. | MIC-## | CEILING MOUNT MICROPHONE. |
| CAM-## | WALL MOUNT AV CAMERA. | AV-## | AV MUDRING AV INPUT PLATE. (1 GANG) (2 GANG) |
| CAM-## | CEILING MOUNT AV CAMERA. | AV-## | AV BACKBOX. (1 GANG) (2 GANG) (3 GANG) |
| OC-## | OCCUPANCY SENSORS. | AV | AV CABLE PULL BOX. SIZE DESIGNATION: '6X6' = 6X6X6 AV CABLE PULL BOX. '12X12' = 12X12X6 AV CABLE PULL BOX. |
| PT-## | PARTITION SENSORS. | | |

NOTE: NOT ALL SYMBOLS APPLY. REFER TO FLOOR PLANS AND DRAWINGS. REFER TO AV COORDINATION MATRIX OR AV CONSULTANT DRAWINGS FOR BACKBOX SIZE, MOUNTING HEIGHT, AND ALL INFRASTRUCTURE REQUIREMENTS.

2 AV001 AUDIO-VISUAL LEGEND



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PROJECT

TITLE
AV LEGENDS, NOTES & COORDINATION MATRIX

architects
Baird Sampson Neuert

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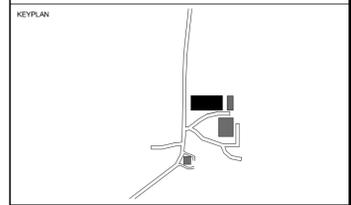
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AV001

DRAWING NOTE:
 (N-1) INFRASTRUCTURE ONLY. FOR FUTURE USE. REFER TO AV001 (AV COORDINATION MATRIX) FOR REQUIREMENTS.



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 3350 Mississauga Road

TITLE
 GROUND FLOOR - AV DEVICE FLOOR PLAN

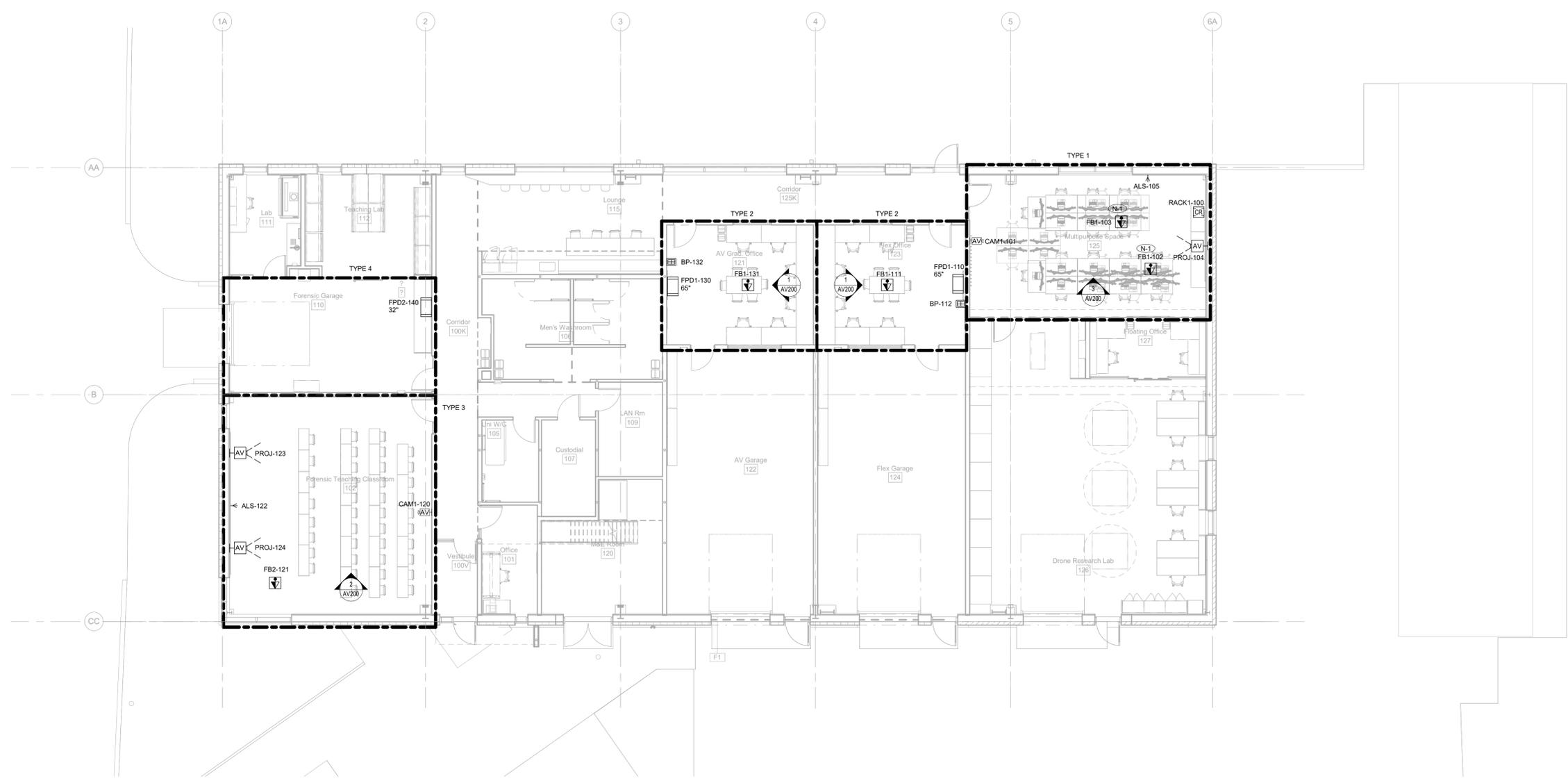
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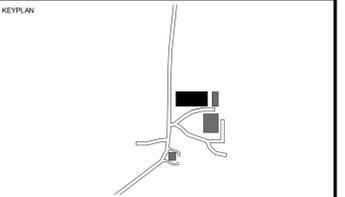
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| PROJECT NO: 21352.002 | |
| DRAWN BY: Author | |
| CHECKED BY: Checker | |



DRAWING NOTE:
 (N-1) THE CAMERA BE CEILING-MOUNTED, 360 DEGREE RANGE, ABOVE THE VEHICLE LOCATION, SLIGHTLY TOWARDS THE REAR SIDE. THE CAMERA SHOULD BE POSITIONED BELOW THE LIGHT FIXTURES, WHICH ARE AT 3650MM AFF.



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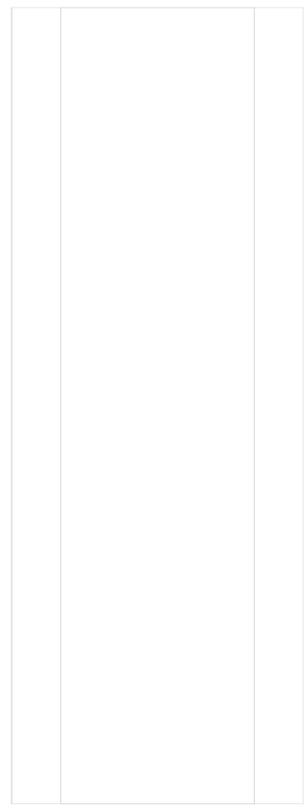
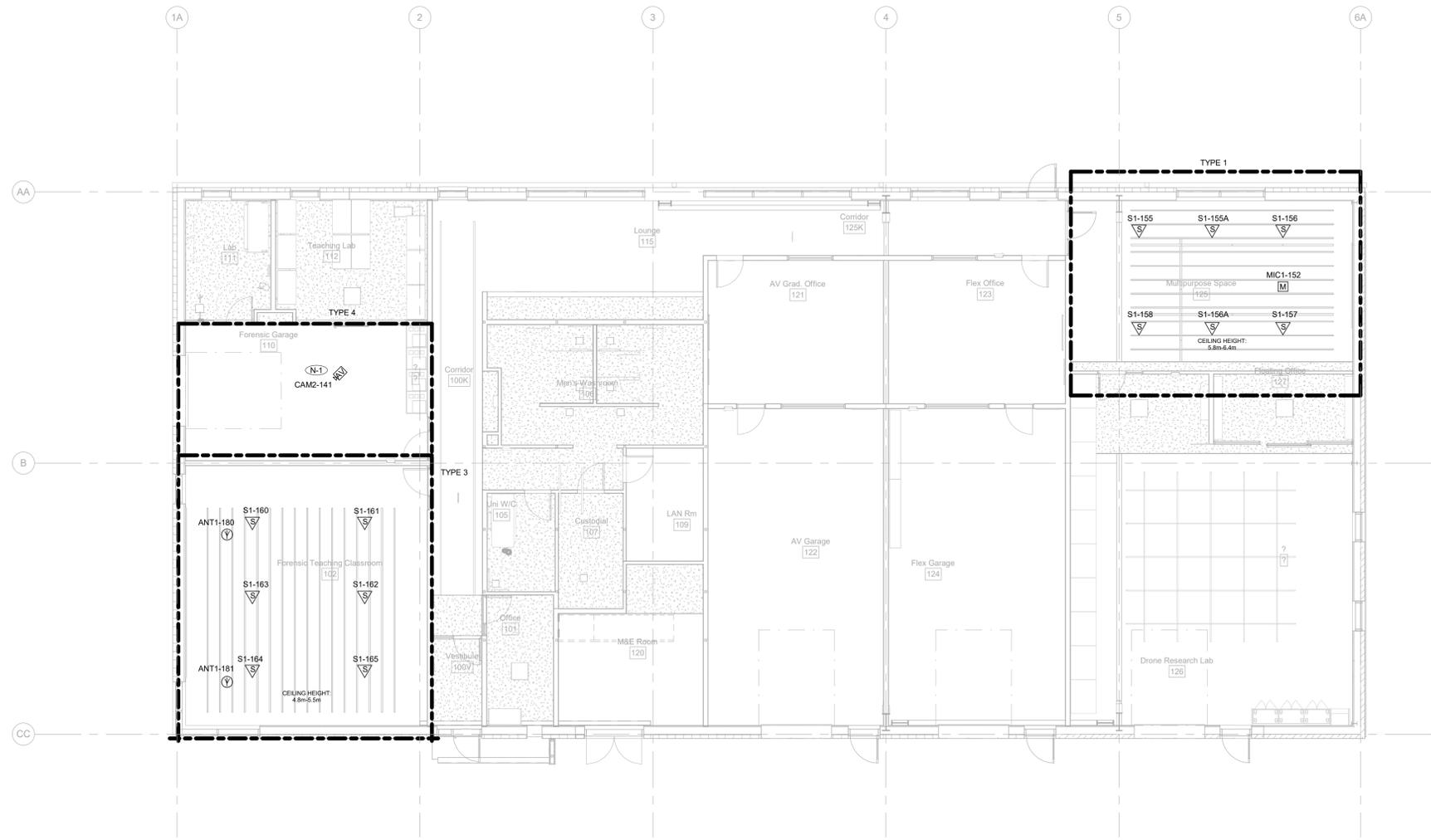
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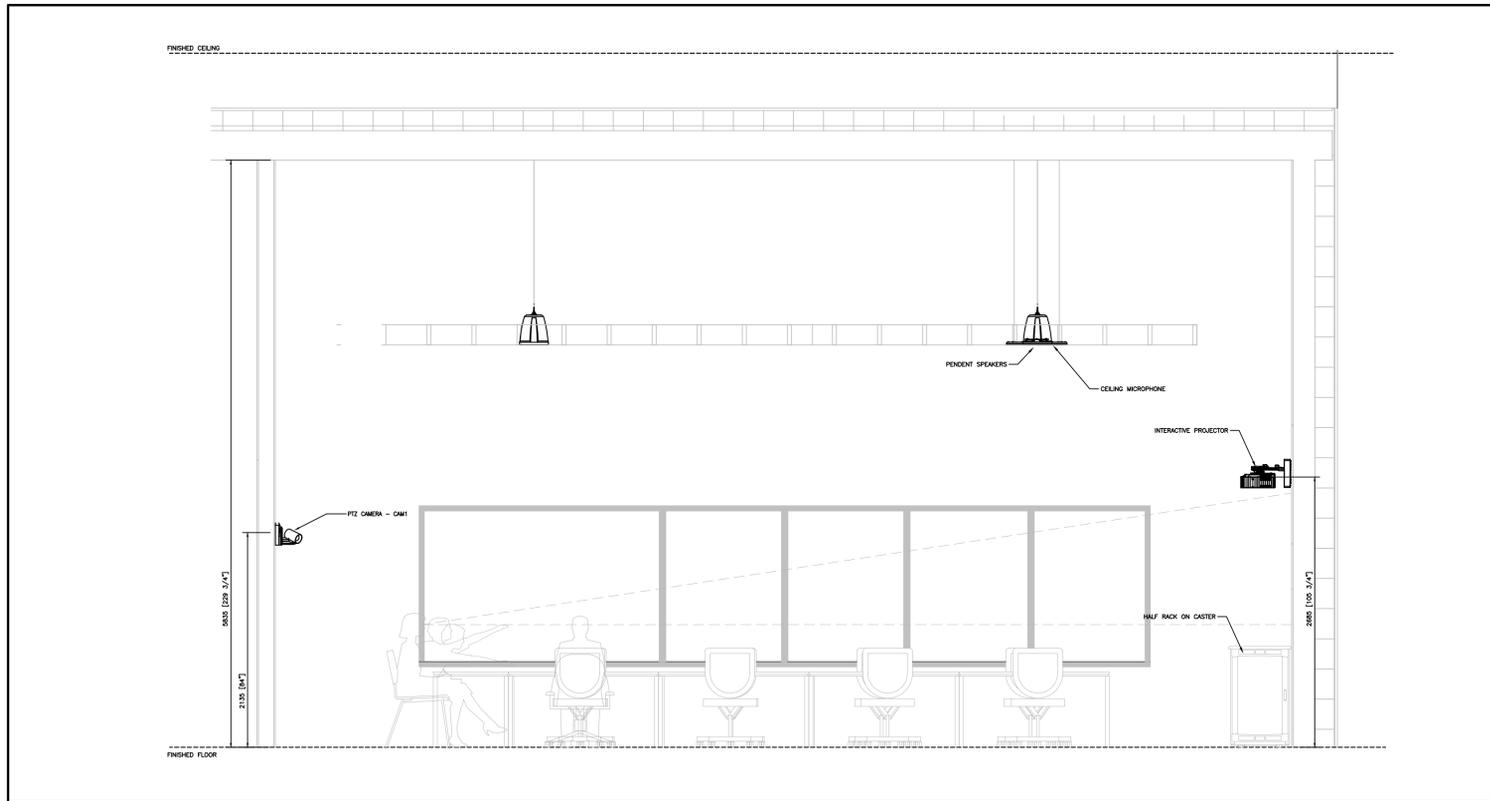
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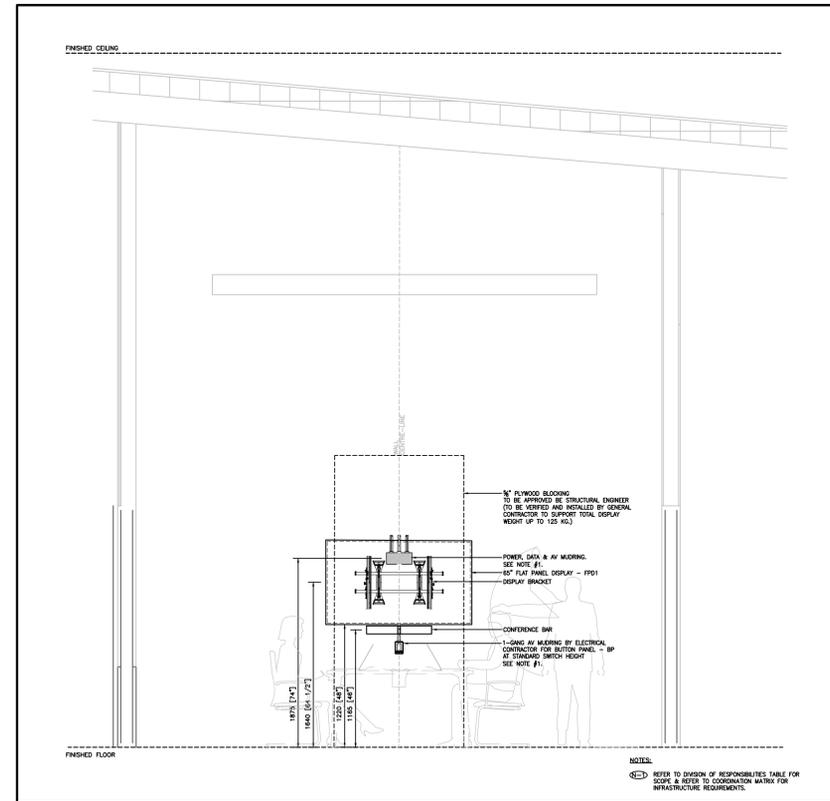
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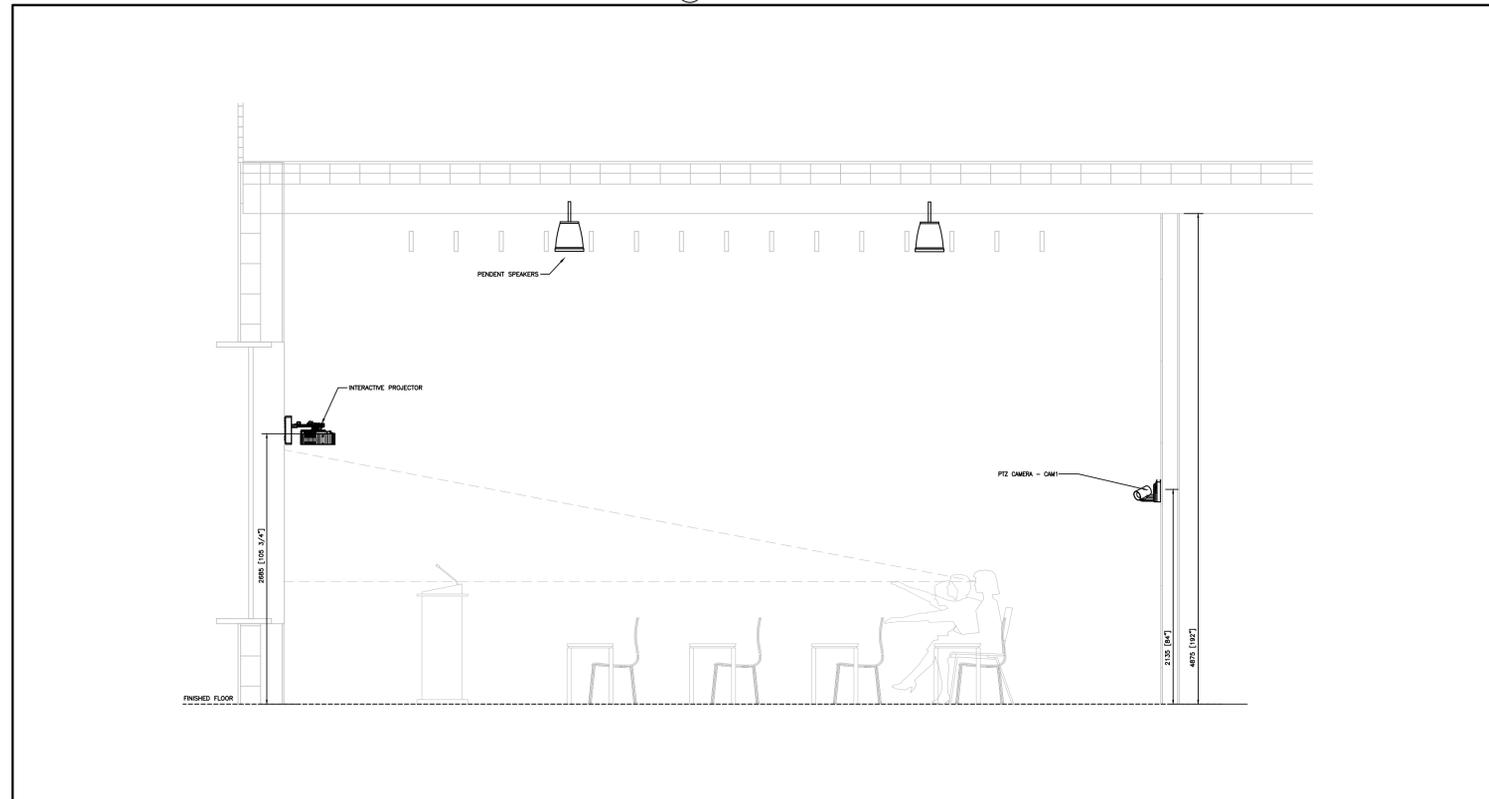




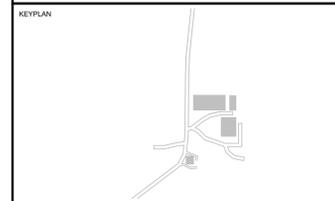
1 TYPE 1 - MULTIPURPOSE ROOM
AV DEVICE SIDE ELEVATION



1 TYPE 2 - AV GRAD & FLEX SPACE OFFICES
AV DEVICE ELEVATION

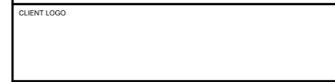


2 TYPE 3 - FORENSIC TEACHING LAB
AV DEVICE SIDE ELEVATION



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| CONDUIT SIZES | |
|---------------|--------|
| IMPERIAL | METRIC |
| 1/2" | 16MM |
| 3/4" | 21MM |
| 1" | 1" |
| 1-1/4" | 35MM |
| 1-1/2" | 1.5" |
| 2" | 53MM |
| 2-1/2" | 65MM |
| 3" | 78MM |
| 4" | 103MM |

4 AV300 CONDUIT SIZE CONVERSIONS

UNLESS NOTED ON RISER, PROVIDE THE FOLLOWING CONDUIT SIZES AND QUANTITY:

- ALL BUTTON PANEL CONDUITS ARE (1) 1" [1"]
- ALL WALL PLATE CONDUITS ARE MINIMUM (1) 1.5" [41mm]
- ALL SPEAKER CONDUITS ARE MINIMUM (1) 1" [1"]
- ALL ANTENNA CONDUITS ARE MINIMUM (1) 1.5" [41mm]
- ALL FLOORBOX CONDUITS ARE MINIMUM (2) 1.5" [41mm]
- ALL DISPLAY CONDUITS ARE MINIMUM (1) 1" [1"]
- ALL CONTROL PANELS ARE MINIMUM (1) 1" [1"]
- ALL PROJECTORS ARE MINIMUM (1) 1" [1"]
- ALL PROJECTION LIFTS ARE MINIMUM (1) 1.25" [35mm]
- ALL PROJECTION SCREENS ARE MINIMUM (1) 0.75" [21mm]

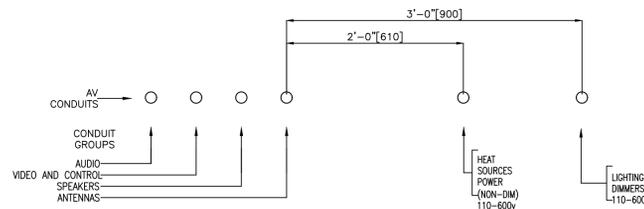
5 CONDUIT SIZES

AUDIO-VISUAL CONDUIT SEPARATION CRITERIA

1. DO NOT RUN AV CONDUITS PARALLEL TO AC AND LIGHTING CONDUITS. WHERE RUNS ARE PARALLEL, ADHERE TO THE SEPARATION SHOWN BELOW:

| LENGTH OF RUN PARALLEL TO HIGH VOLTAGE CONDUITS meters (feet) | MIN. SEPARATION OF AV CONDUITS FROM AC CONDUITS mm (inch) | MIN. SEPARATION OF AV CONDUITS FROM DIMMER CONDUITS mm (inch) |
|---|---|---|
| <= 1.8 (6) | 150 (6) | 228 (9) |
| 1.8 (6) to 9.1 (30) | 300 (12) | 406 (16) |
| >= 9.1 (30) | 600 (24) | 812 (32) |

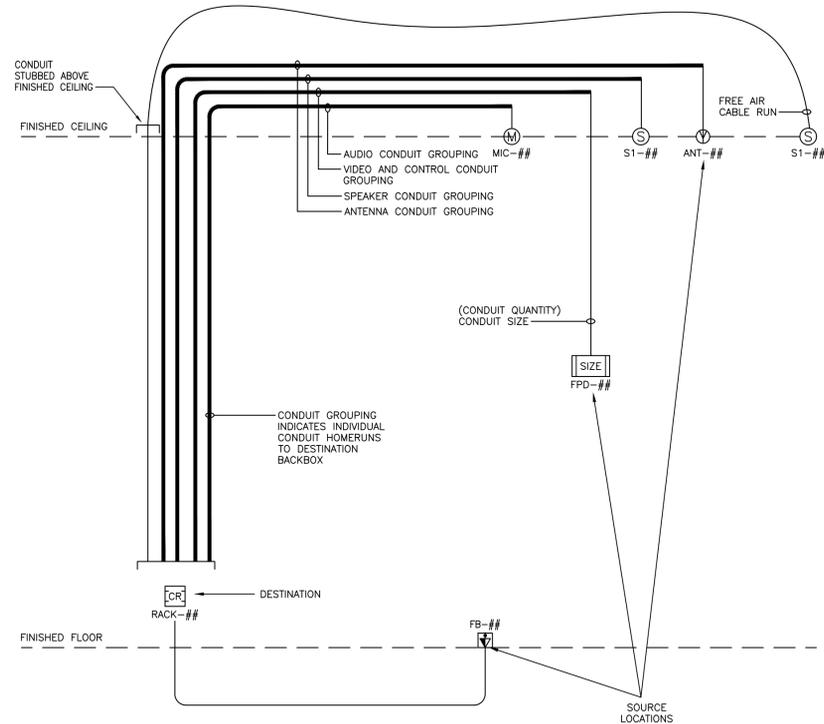
2. WHERE SYSTEM CONDUITS ARE RUN TOGETHER AND PARALLEL THEY SHALL BE IN THE FOLLOWING ORDERED SEQUENCE, STARTING AT THE SIDE FURTHEST FROM AC CONDUITS:



- WHERE AUDIO-VISUAL CONDUITS CROSS HIGH VOLTAGE CONDUITS, CROSSINGS SHOULD BE AS CLOSE TO 90° AS POSSIBLE.
- AV CONDUITS CONTAINING MICROPHONE CABLE SHOULD BE RUN AS FAR AS POSSIBLE FROM HIGH VOLTAGE CONDUITS. WHEN MULTIPLE AV CONDUITS ARE PROVIDED, ENSURE CONDUIT DESIGNATED FOR MICROPHONE CABLE IS FURTHEST AWAY FROM HIGH VOLTAGE CONDUIT.
- NOTIFY AV CONSULTANT IF AV CONDUITS ARE TO BE RUN AT A DISTANCE CLOSER THAN RECOMMENDED SEPARATIONS.
- ALL DIMENSIONS ARE MINIMUM VALUES.
- FOR RUNS OF LENGTH GREATER THAN 75', DOUBLE ALL VALUES.
- IF NOT PHYSICALLY POSSIBLE TO PROVIDE THE SEPARATION SPECIFIED FOR PARALLEL RUNS FOR DISTANCES OVER 75' WRAP THE EXTERIOR OF THE SIGNAL CONDUIT IN 1/32" THICK LEAD SHEET.

2 AV300 AUDIO-VISUAL CONDUIT SEPARATION CRITERIA SCALE: NTS

Cable pathway shall not exceed 300 ft. Pathways that exceed 300 ft must be coordinated with the Systems Designer and AV Contractor.



3 AV300 RISER DIAGRAM DEFINITION

GENERAL

- SUPPLY AND INSTALL NETWORKS OF CONDUITS (INCLUDING PULLBOXES AND JUNCTION BOXES) AND BACKBOXES, READY FOR PULLING OF WIRE TO CAPTURE THE REQUIREMENTS SHOWN ON AV DRAWINGS.
- THE DESCRIPTION OF CONDUIT SYSTEMS AS SHOWN IN AV SCHEDULES AND RISERS IS SCHEMATIC ONLY AND IS INTENDED TO CONVEY THE REQUIREMENTS OF THE AV CONDUIT SYSTEM SUCH THAT THE AV SYSTEMS WILL FUNCTION CORRECTLY.

BACKBOXES

- THE TERM "BACKBOX" INCLUDES TERMINATION BOXES MOUNTED TO WALLS, CEILINGS AND IN FLOORS. ALL BACKBOXES TO BE SUPPLIED WITH UTILITY COVERS, FASTENED IN PLACE.
- THE DRAWINGS SHOW APPROXIMATELY WHERE BACKBOXES ARE TO BE LOCATED. FOR EXACT LOCATIONS, SEE ARCHITECTURAL DRAWINGS OR OBTAIN DIRECTION FROM THE ARCHITECT. THE LOCATIONS OF SOME PULL-BOXES AND JUNCTION BOXES ARE INDICATED FOR REFERENCE. THEIR EXACT LOCATIONS TO BE DETERMINED BY THE CONTRACTOR IN THE FIELD, SUBJECT TO THE REQUIREMENTS SHOWN HEREIN AND IN THE DRAWINGS.
- PROVIDED THAT THE STATED REQUIREMENTS ARE MET, THE ELECTRICAL CONTRACTOR MAY USE ITS DISCRETION TO ADJUST THE DESIGN OF THE CONDUIT NETWORK TO CONFORM TO SITE CONDITIONS AND REALIZE ECONOMIES IN MATERIALS AND/OR PHYSICAL SPACE. EXAMPLES OF SUCH CONDITIONS ARE AS FOLLOWS:
 - ROUTING OF CONDUIT FROM POINT TO POINT MAY BE CHANGED TO RUN VIA AVAILABLE BUILDING LINES AND ACCESSIBLE AREA.
 - WITH SHARE GROUPS, MANY SMALLER CONDUITS MAY BE COMBINED INTO FEWER LARGER CONDUITS THAT THE STATED FILL RATIO IS OBSERVED AND NET CAPACITY IS NOT REDUCED.

NOMENCLATURE

- CONSULT AV DRAWINGS FOR DETAILS OF BACKBOX INSTALLATION REQUIREMENTS (SIZE, MOUNTING HEIGHT, ETC.).
- EACH BACKBOX IS IDENTIFIED BY SYSTEM CODE ACCORDING TO THE AV SYSTEM(S) CABLES THAT WILL BE TERMINATED THERE.

SIZE

- UNLESS NOTED OTHERWISE, SIZE CONDUIT ACCORDING TO REQUIREMENTS OF WIRES TO BE CONTAINED THEREIN. THE QUANTITY AND TYPES OF CABLES SHALL BE PROVIDED BY THE AV CONTRACTOR.
- THE FILL RATIO SHALL NOT EXCEED 40%.

MATERIALS

- ALL BACKBOXES TO BE MANUFACTURED OF STEEL.
- ALL BACKBOXES TO BE 75MM (3") DEEP OR GREATER, EXCEPT CEILING LOUDSPEAKER BACKBOXES, WHICH ARE SPECIFIED SEPARATELY.
- ALL SUSPENDED BACKBOXES SHALL INCLUDE AT LEAST ONE REDUNDANT CHAIN TO BE FASTENED TO THE CEILING SLAB OR OTHER STRUCTURAL MEMBER FOR SEISMIC AND FIRE SAFELY PURPOSES. TENSION RATING OF CHAIN AND FASTENERS TO MEET CODE REQUIREMENTS.
- WHERE NOTED ON DRAWINGS, USE RIGID CONDUIT UP TO 2400MM (8'-0") ABOVE FINISHED FLOOR WHERE EXPOSED INDOORS AND SUBJECT TO DAMAGE. USE EPOXY COATED RIGID CONDUIT WHERE EXPOSED IN CORROSIVE AREAS INDOORS.
- UNLESS NOTED OTHERWISE, PVC CONDUIT, BUSHINGS AND CONNECTIONS ARE NOT ACCEPTABLE.
- ALL EXPOSED SURFACE-MOUNTED GANG BACKBOXES (I.E. MOUNTED TO EXPOSED CONCRETE COLUMNS OR WALLS) SHALL BE SIMILAR TO WIREMOLD V5744-SERIES, ALLOWING FOR ALL COVER PLATES TO NOT OVERHANG BACKBOX. STANDARD METAL ELECTRICAL BACKBOXES ARE NOT ACCEPTABLE.

INSTALLATION

- COORDINATE BACKBOX LOCATIONS AS REQUIRED WITH ELECTRICAL POWER RECEPTACLES AND LIGHT SWITCHES TO PRESENT A UNIFORM APPEARANCE TO THE SATISFACTION OF THE ARCHITECT.
- MOUNT SURFACE OR RECESSED ACCORDING TO LOCAL FINISH REQUIREMENTS, AT THE DISCRETION OF THE ARCHITECT.
- MARK BACKBOXES IN THE FIELD CONSISTENT WITH THE DRAWINGS FOR IDENTIFICATION PURPOSES. USE PERMANENT MARKER TO MARK ID AND SYSTEM CODE ON THE FACING SURFACE OF THE BACKBOX.
- COORDINATE CEILING BACKBOXES WITH OTHER SERVICES IN CEILING SUCH THAT BACKBOXES ARE CLEAR OF INTERFERENCES AND DIRECTLY ACCESSIBLE FROM BELOW.
- IN OPEN CEILINGS, WHERE CHAIN OR STRUT IS THE PRIMARY HANGING SUPPORT, ENSURE THAT LOUDSPEAKER ARE SUSPENDED PLUMB AND LEVEL AT CONSISTENT HEIGHT ABOVE FINISHED FLOOR.
- WHERE LOUDSPEAKER BACKBOXES WILL BE CONCEALED ABOVE PLASTER OR GYPSUM BOARD CEILING PRIOR TO INSTALLATION OF THE LOUDSPEAKERS, PROVIDE PULLSTRING SUSPENDED BELOW THE CEILING LINE TO INDICATE ITS LOCATION.
- ALL JUNCTION BOXES MUST BE ACCESSIBLE AFTER THE INSTALLATION OF WALL FINISHES AND OTHER PERMANENT BUILDING FEATURES.

CONDUIT ORGANIZATION

- UNLESS NOTED OTHERWISE, PROVIDE A SEPARATE NETWORK CONNECTING ALL BACKBOXES OF EACH SYSTEM, AS IDENTIFIED ON THE DRAWINGS.
- UNLESS NOTED OTHERWISE, PROVIDE CONDUIT TO JOIN EVERY BACKBOX TO THE NETWORK(S), WHETHER OR NOT THE CONDUIT IS SPECIFICALLY DESCRIBED HEREIN.

BONDING

- ALL CONDUIT, PULL BOXES AND JUNCTION BOXES TO BE CONTINUOUSLY GROUNDED BY MEANS OF BONDING STRAPS LINKING EACH ELEMENT.
- LOW VOLTAGE CONDUITS SHALL BE MECHANICALLY AND ELECTRICALLY ISOLATED FROM SOUND SYSTEM EQUIPMENT RACKS. AT RACKS, USE ISOLATED CONNECTION, SUCH AS PVC BUSHING, SUCH THAT CONDUIT REMAINS ISOLATED FROM THE RACK. CONNECT LOW VOLTAGE CONDUITS WITH HEAVY INSULATED GROUND WIRE TO THE NEAREST GROUND OF A UTILITY PANEL.

PROXIMITIES AND ROUTING

- AV CONDUITS AND AC CONDUITS RUN IN PARALLEL SHOULD BE SEPARATED BY A DISTANCE OF 24" FOR RUNS LESS THAN 75'. FOR PARALLEL RUNS GREATER THAN 75' DOUBLE ALL VALUES.
- DO NOT RUN WIRING, BACKWAYS AND CONDUIT NEAR POWER TRANSFORMERS, LIGHTING DIMMERS, POWER CONTROL EQUIPMENT, HEAVY CURRENT SWITCHGEAR, FUSEBOARDS, FLUORESCENT BALLASTS, MOTORS, OR ANY OTHER EQUIPMENT WHICH RADIATES EM.
- CROSS CONDUITS OF POWER SYSTEMS AT 90 DEGREES.
- UNUSUALLY HEAVY CURRENT DEMANDS IN ADJACENT CONDUIT OR LONG PARALLEL RUNS MAY DICTATE GREATER SEPARATION TO AVOID INTERFERENCE IN THE SOUND AND VIDEO. IDENTIFY SUCH INSTANCES ON SITE AND CONSULT WITH ELECTRICAL CONSULTANT FOR RESOLUTION PRIOR TO INSTALLATION OF CONDUITS.
- WHERE CONDUIT CROSSES ACOUSTICAL JOINTS, PROVIDE ISOLATION METHODS AS SHOWN IN ARCHITECTURAL DETAIL.
- CONDUIT EXPANSION FITTINGS TO BE PROVIDED WHEN CROSSING BUILDING EXPANSION JOINTS. CROSSING TO BE DONE AT 90 DEGREES TO JOINT.
- ALL WALL-MOUNTED PAGING LOUDSPEAKER AND ATTENUATOR BACKBOXES ARE TO BE SERVED BY CONDUIT ROUTED INTO CEILING SPACE ABOVE.

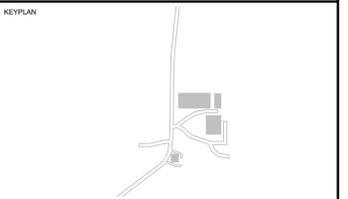
INSTALLATION

- BEND RADIUS OF CONDUIT MUST BE NO LESS THAN 10 (TEN) TIMES THE CONDUIT DIAMETER. BEND CONDUIT WITHOUT HEATING, REPLACE CONDUIT IF CHINKED OR FLATTENED MORE THAN 1/10 OF THE ORIGINAL DIAMETER.
- MINIMUM DISTANCE BETWEEN TWO PULL BOXES TO INCLUDE A MAXIMUM OF 2 (TWO) 90 DEGREE BENDS OR EQUIVALENT UP TO 180 DEGREES, OR 30M (100') OF CONDUIT, WHICHEVER IS LESS.
- MARK ALL CONDUITS IN THE FIELD FOR IDENTIFICATION PURPOSES. FOR RISERS, SHOW SHARE GROUP LETTER AT EVERY JUNCTION BOX. FOR HORIZONTAL RUNS, SHOW DEVICE LOCATION ID AND SHARE GROUP LETTER AT EVERY JUNCTION BOX.

PULL STRINGS

- FISH PULL-STRINGS THROUGH ALL NETWORKS. AT EACH END OF EACH PULL-STRING, LABEL STRING WITH ID OF OTHER END. SECURE BOTH ENDS OF STRING TO CONDUIT OUTSIDE BACKBOX TO PREVENT IT FROM RE-ENTERING CONDUIT.
- WHERE LOUDSPEAKER BACK BOXES WILL BE CONCEALED ABOVE PLASTER OR GYPSUM BOARD CEILING PRIOR TO INSTALLATION OF THE LOUDSPEAKERS, PROVIDE PULL STRING SUSPENDED BELOW THE CEILING LINE TO INDICATE ITS LOCATION.
- FASTEN UTILITY COVERS TO ALL BACKBOXES.

1 AV300 AV CONDUIT AND BACKBOX NETWORK SCALE: NTS



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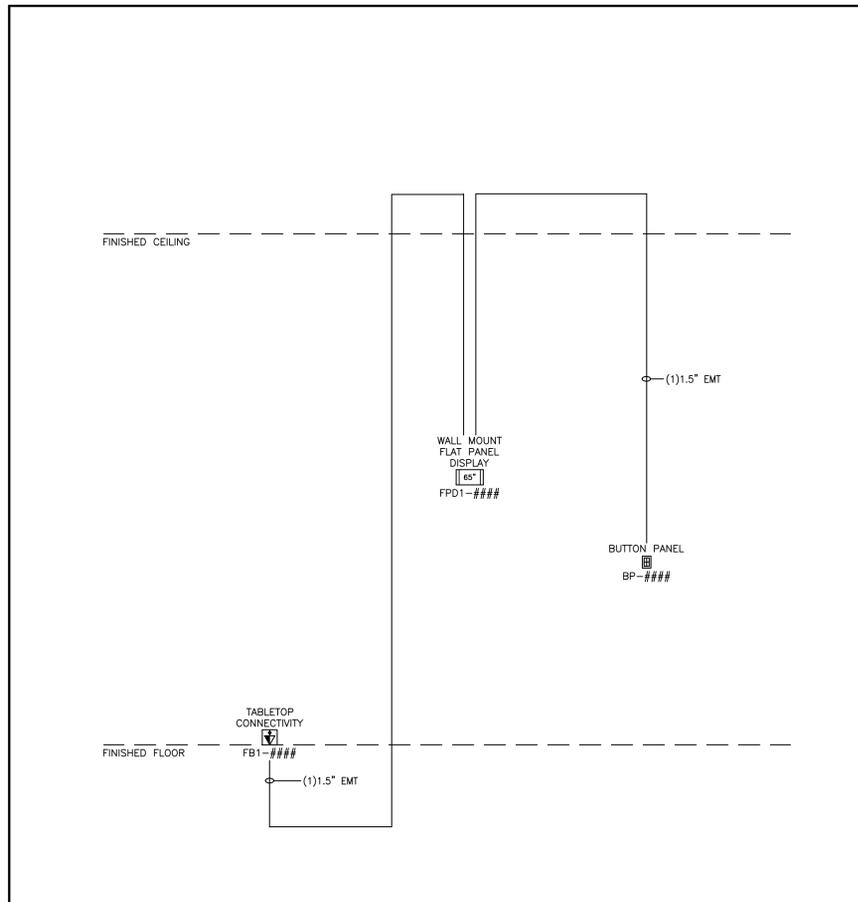
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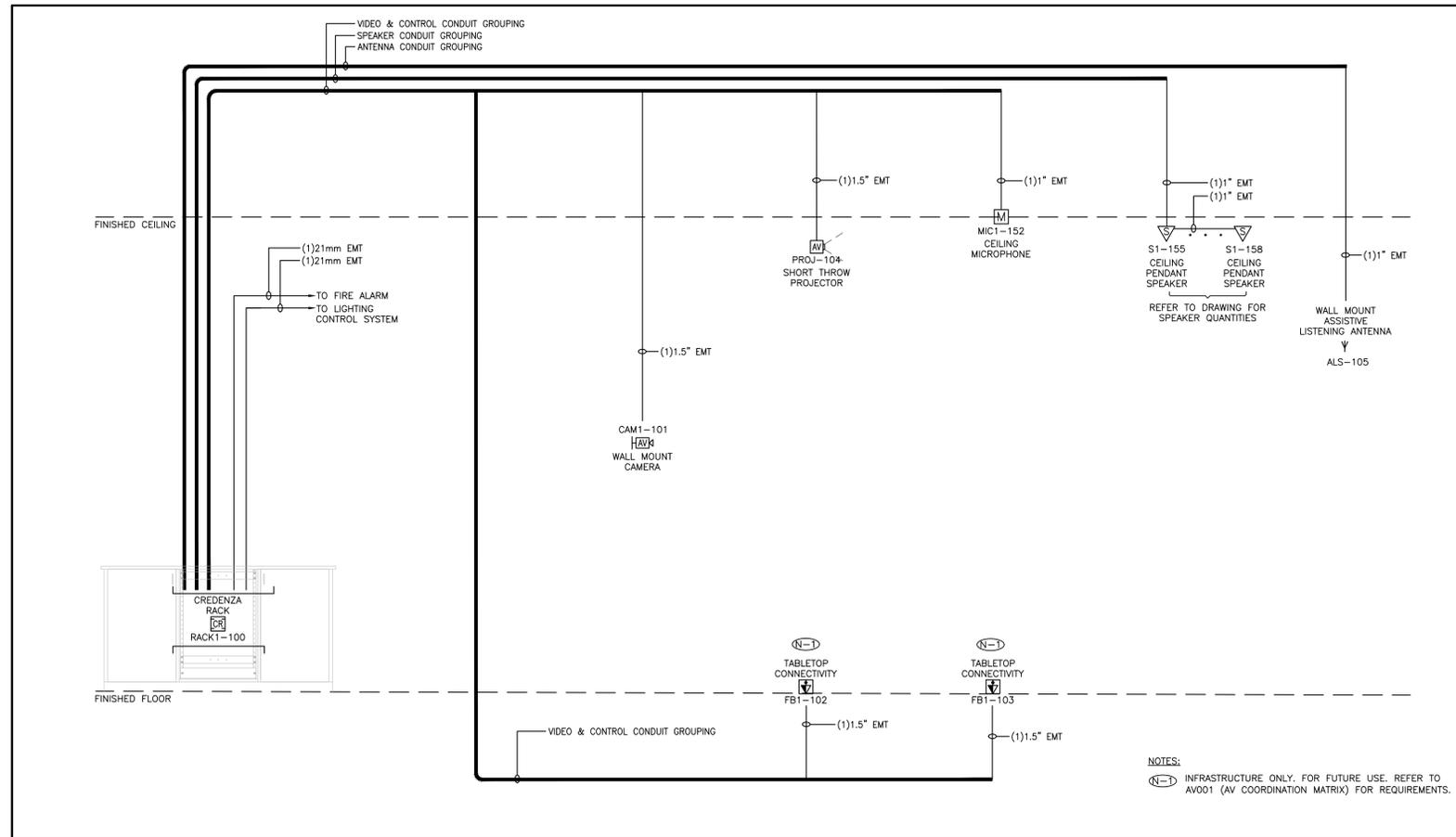
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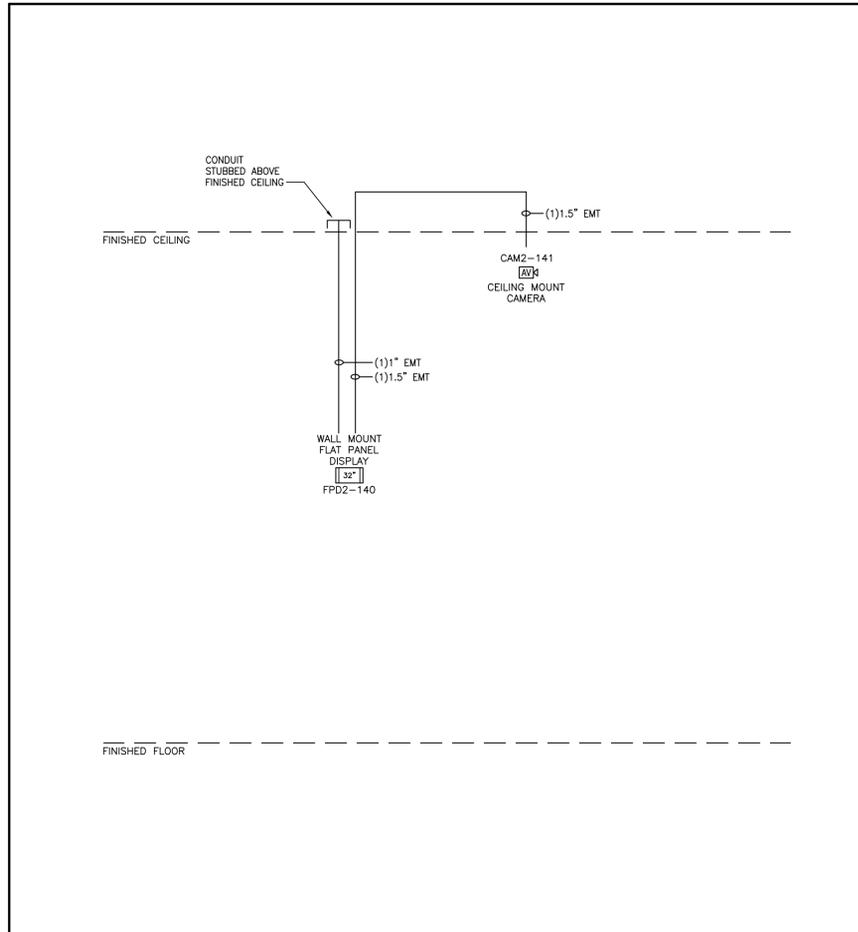
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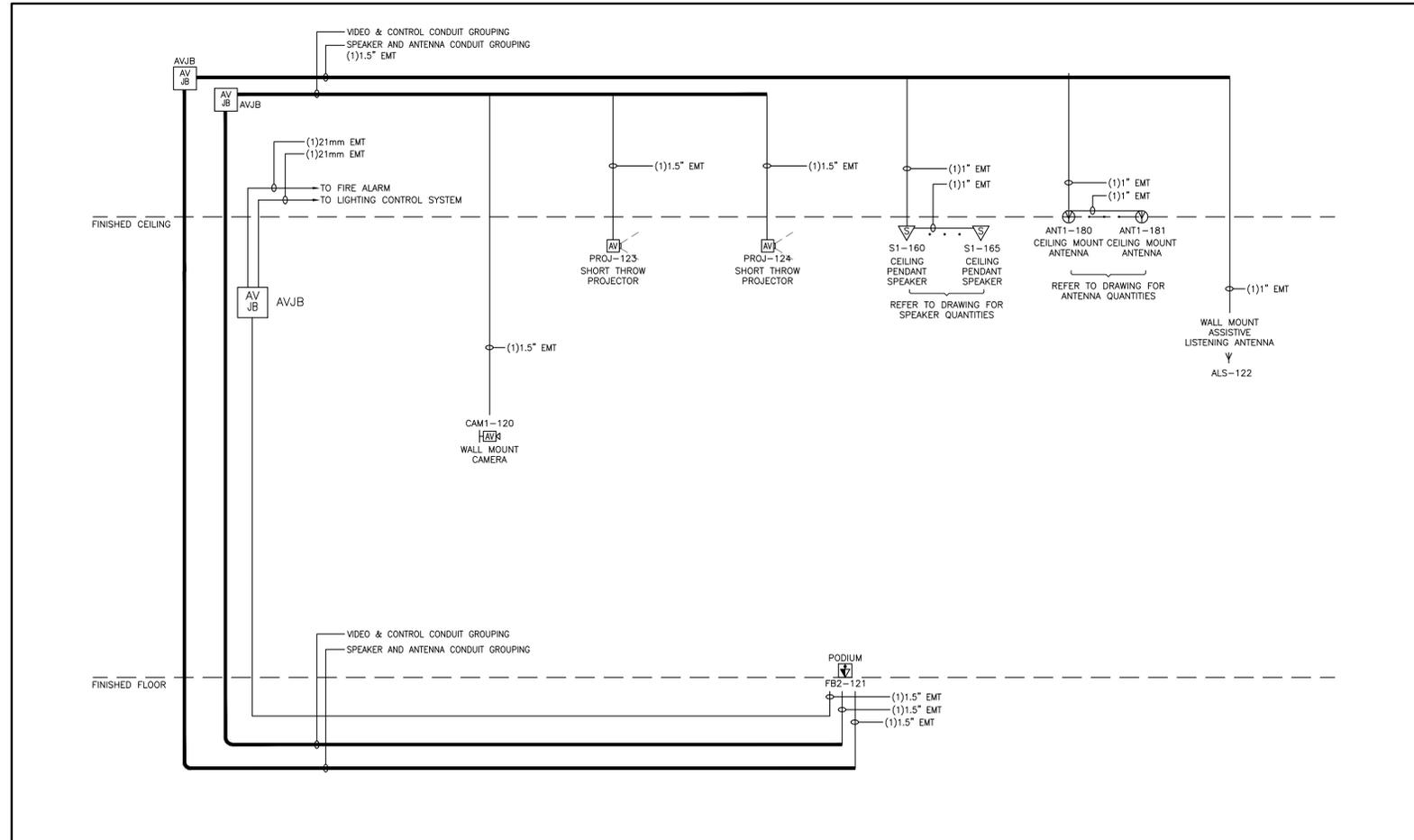
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AV301 TYPE 2 - AV GRAD & FLEX SPACE OFFICES
AV RISER DIAGRAM



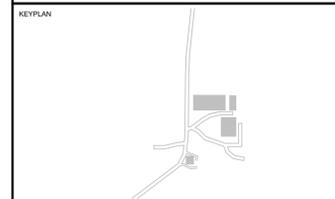
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AV301 TYPE 1 - MULTI-PURPOSE SPACE
AV RISER DIAGRAM



4
AV301 TYPE 4 - FORENSIC GARAGE
AV RISER DIAGRAM



2
AV301 TYPE 3 - FORENSIC TEACHING LAB
AV RISER DIAGRAM



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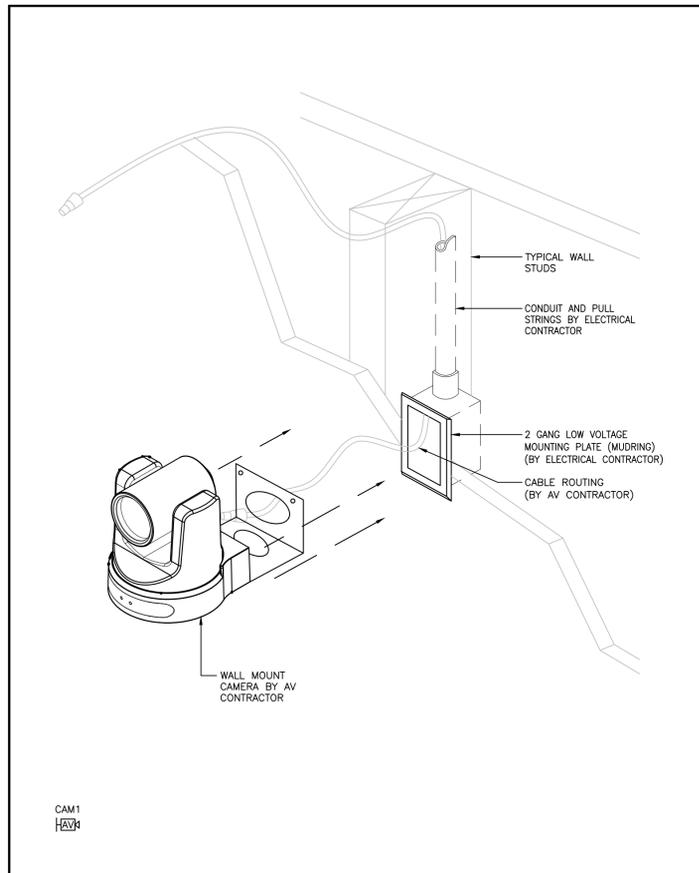
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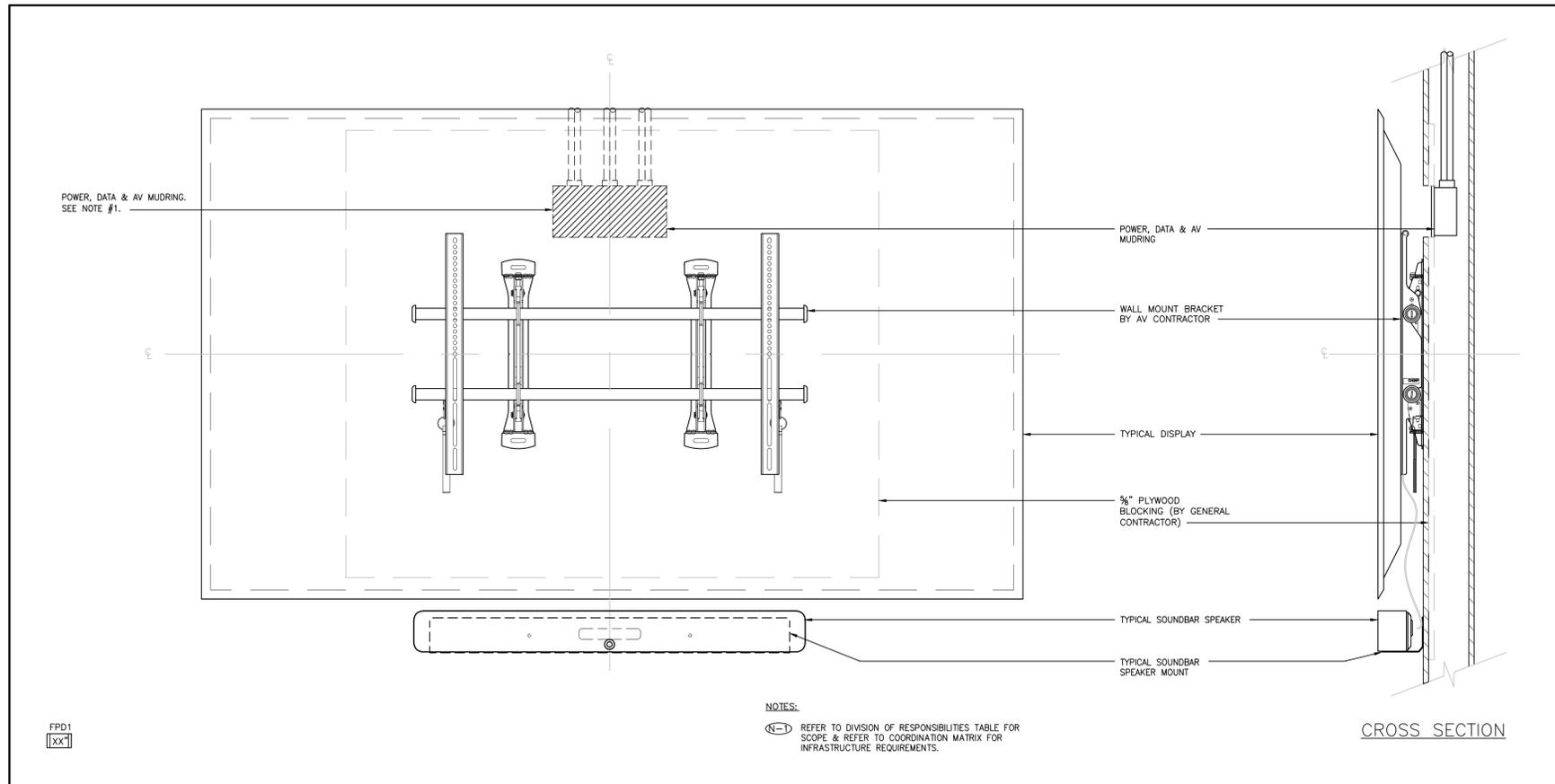
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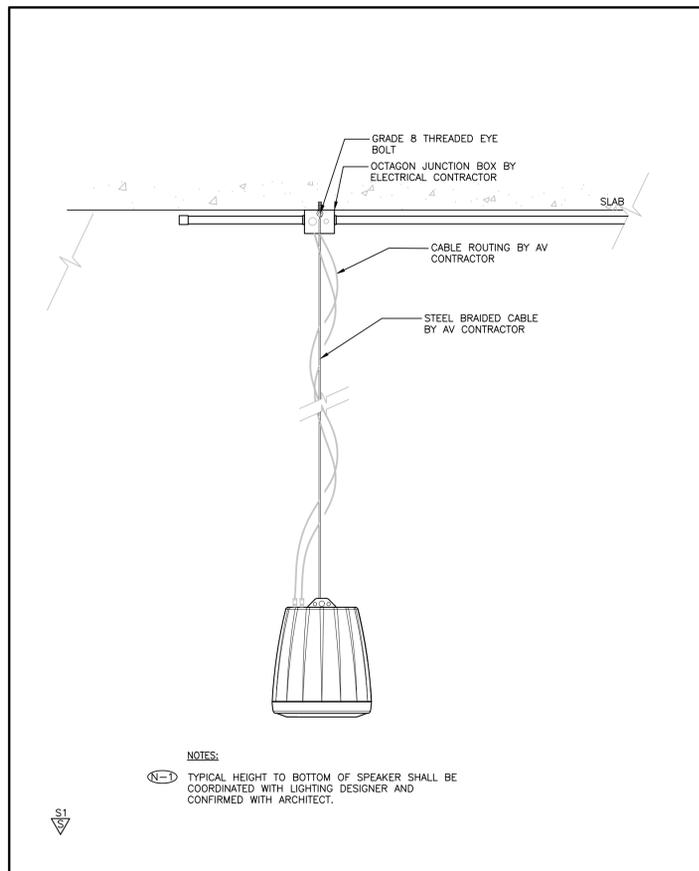
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| CHECKED BY: | P.G. | | |



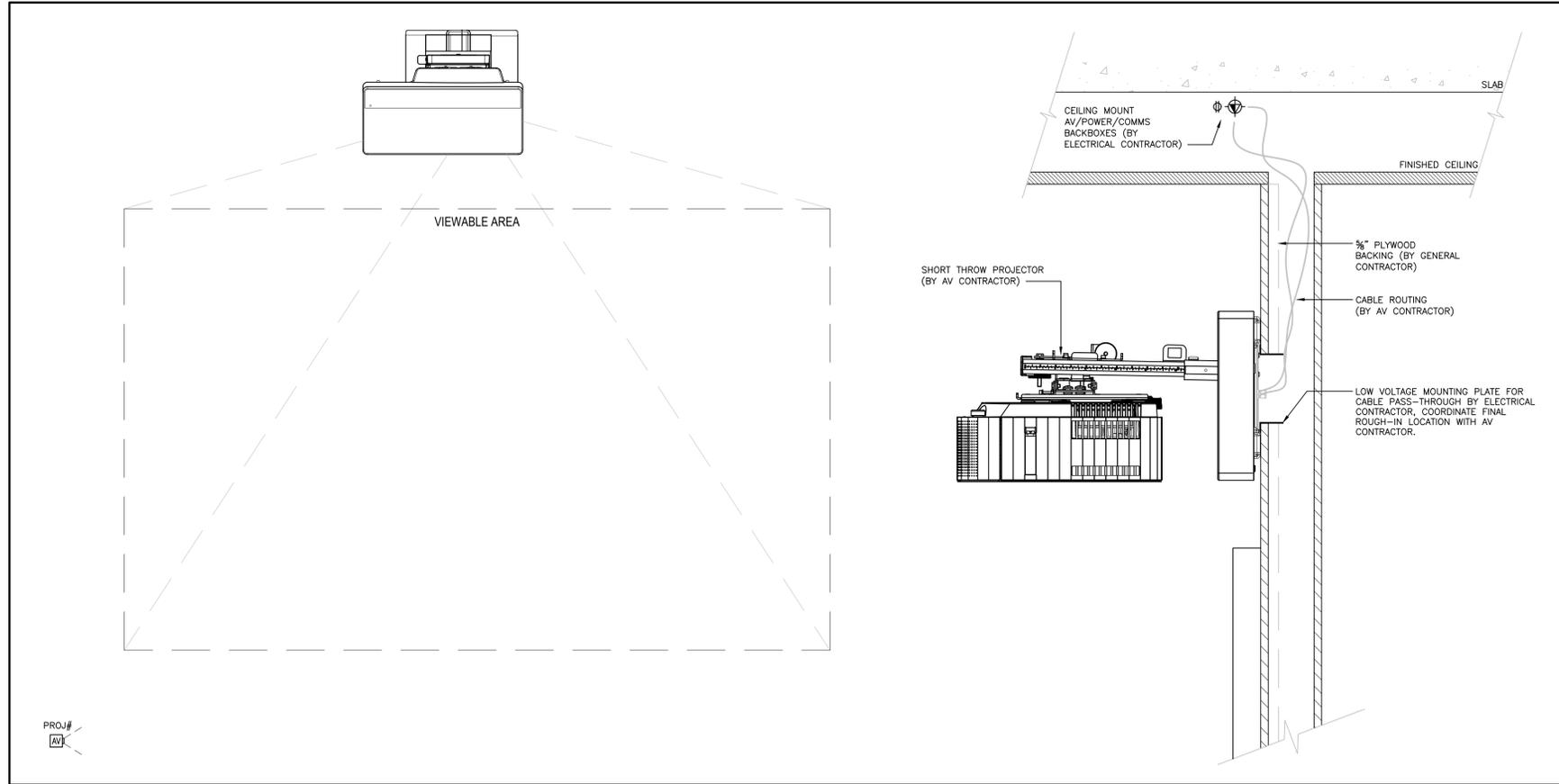
3 WALL MOUNT CAMERA
SCALE: NTS



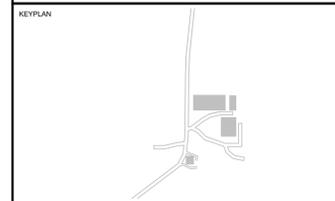
1 WALL MOUNT DISPLAY W/ SOUND BAR
SCALE: NTS



4 PENDANT SPEAKER
SCALE: NTS



2 SHORT THROW PROJECTOR
SCALE: NTS



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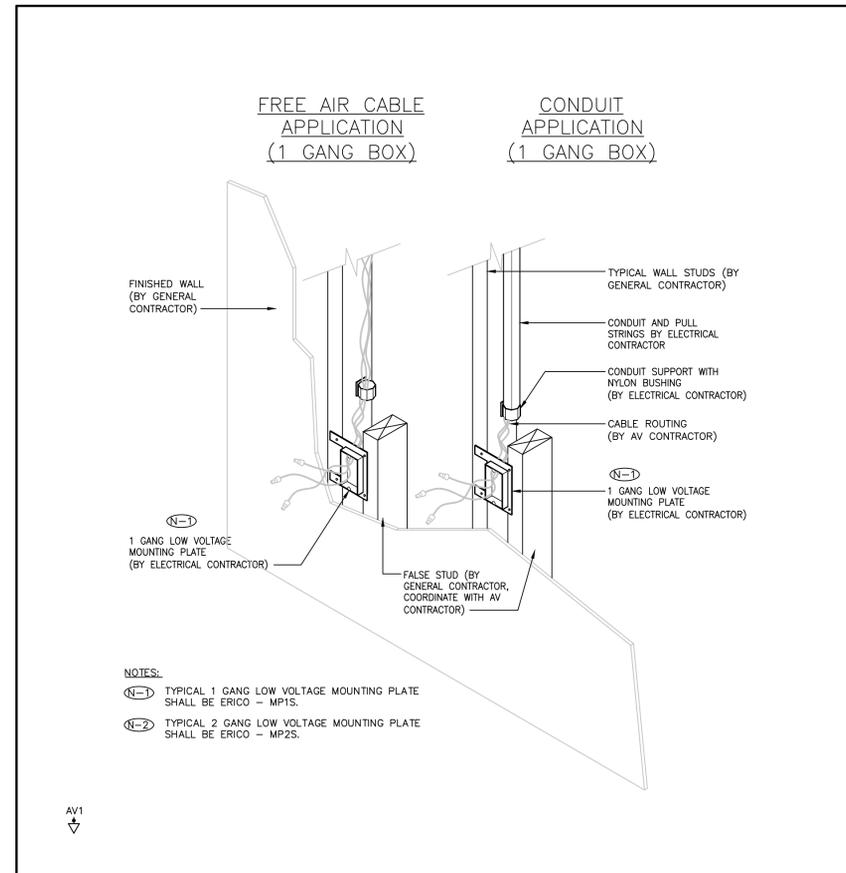
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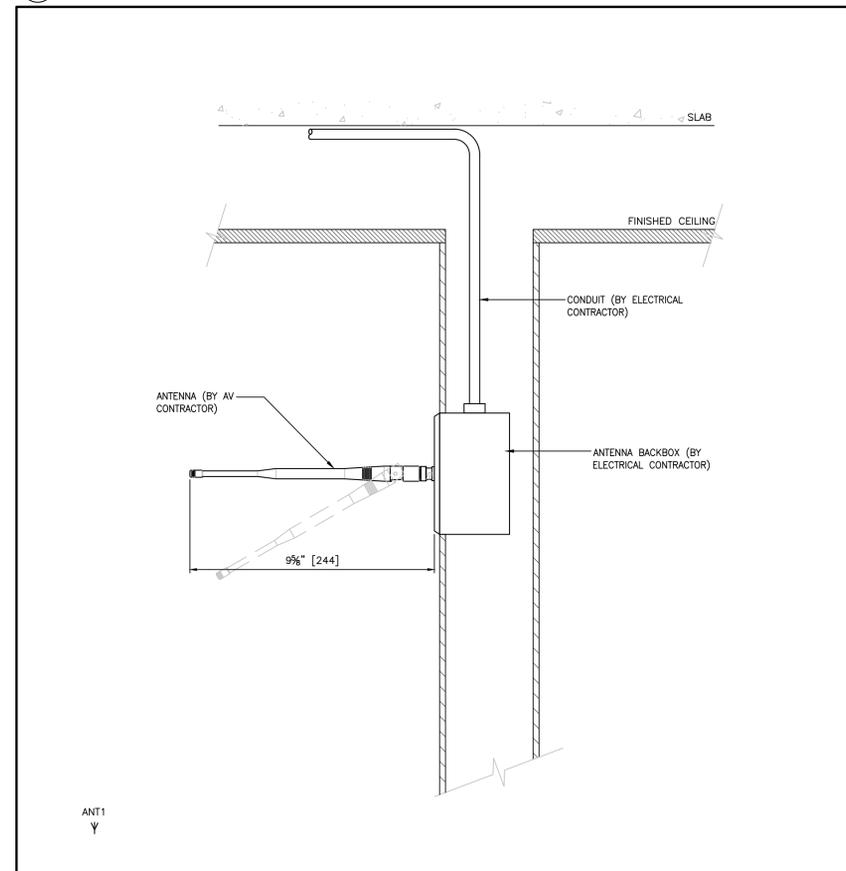
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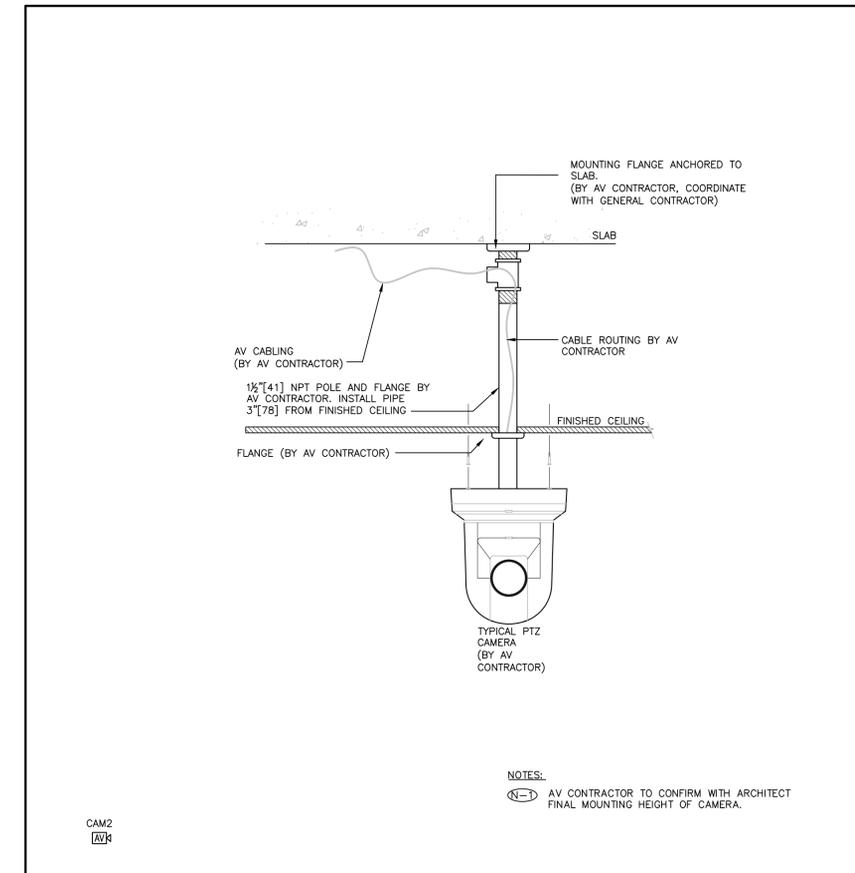
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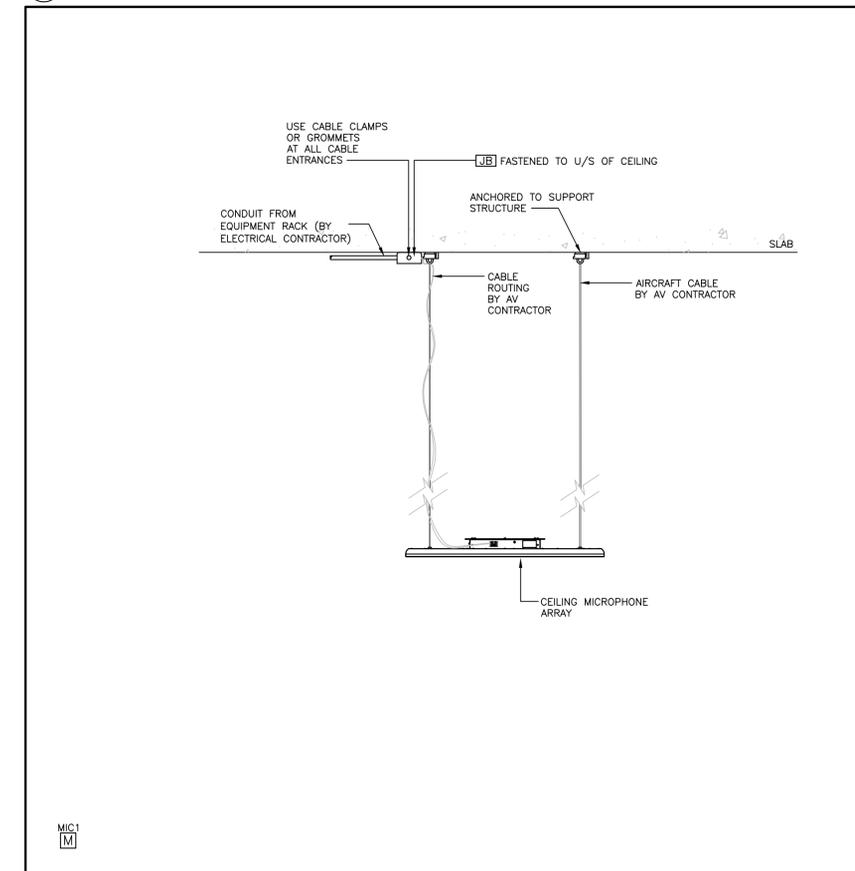
3 LOW VOLTAGE MOUNTING PLATE
SCALE: NTS



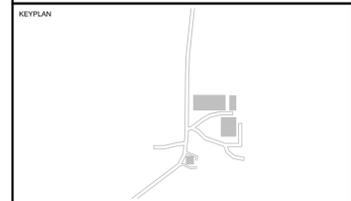
4 WALL MOUNTED ANTENNA
SCALE: NTS



1 CEILING MOUNT CAMERA
SCALE: NTS



2 TYPICAL CEILING MICROPHONE ARRAY WITH AIRCRAFT CABLES
SCALE: NTS



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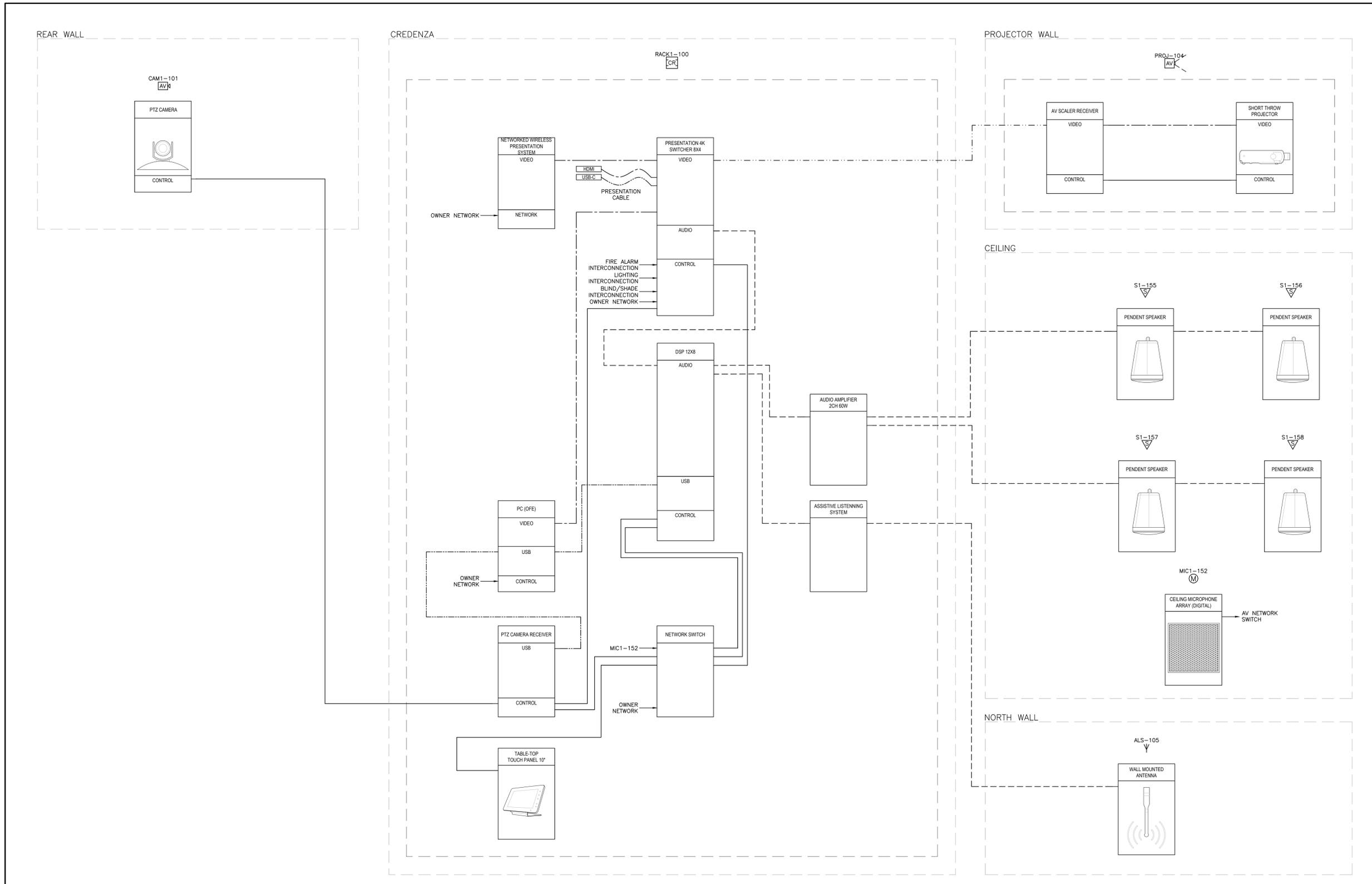
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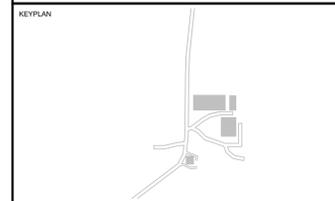
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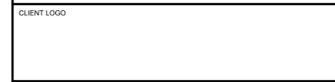
1 TYPE 1 - MULTI-PURPOSE SPACE
AV500 TYPICAL SYSTEM FUNCTIONAL SCHEMATIC

| LEGEND | |
|---------|-------|
| HDB898T | ----- |
| VIDEO | ----- |
| AUDIO | ----- |
| CONTROL | ----- |
| USB | ----- |



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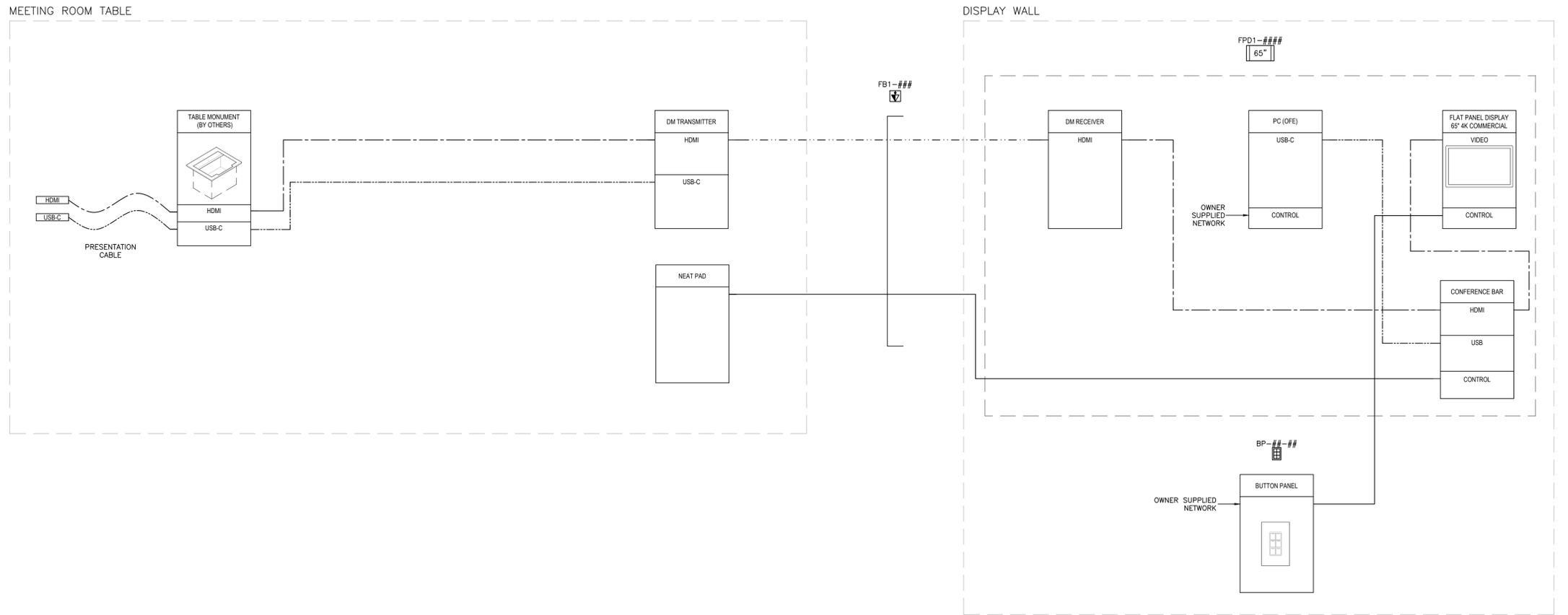
TITLE
AV FUNCTIONALS

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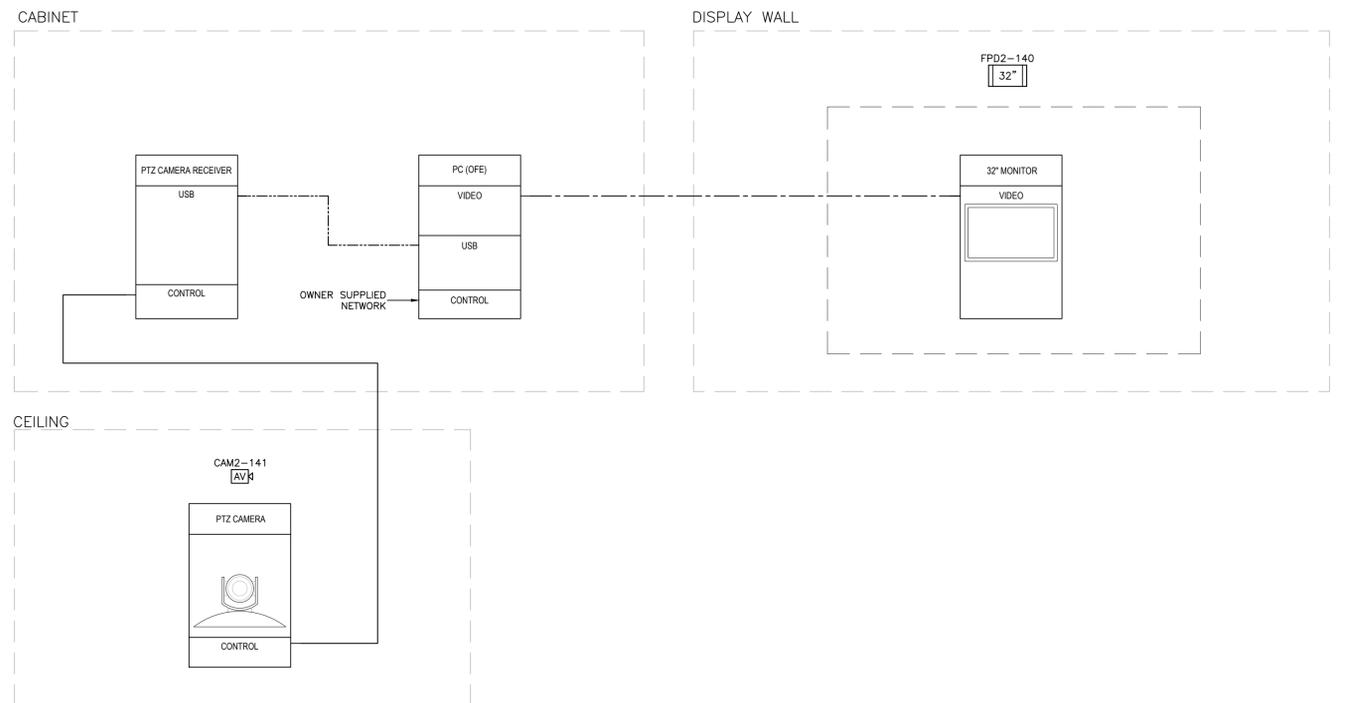
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| PROJECT NO.: | | | |
| DRAWN BY: | S.R. | | |
| CHECKED BY: | P.G. | | |

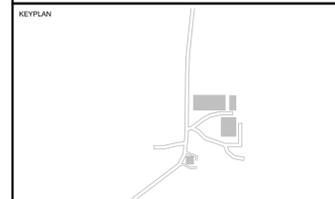


1 TYPE 2 - AV GRAD & FLEX SPACE OFFICES
TYPICAL SYSTEM FUNCTIONAL SCHEMATIC



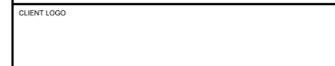
2 TYPE 4 - FORENSIC GARAGE
TYPICAL SYSTEM FUNCTIONAL SCHEMATIC

| LEGEND | |
|---------|-------|
| HDB888T | ----- |
| VIDEO | ----- |
| AUDIO | ----- |
| CONTROL | ----- |
| USB | ----- |



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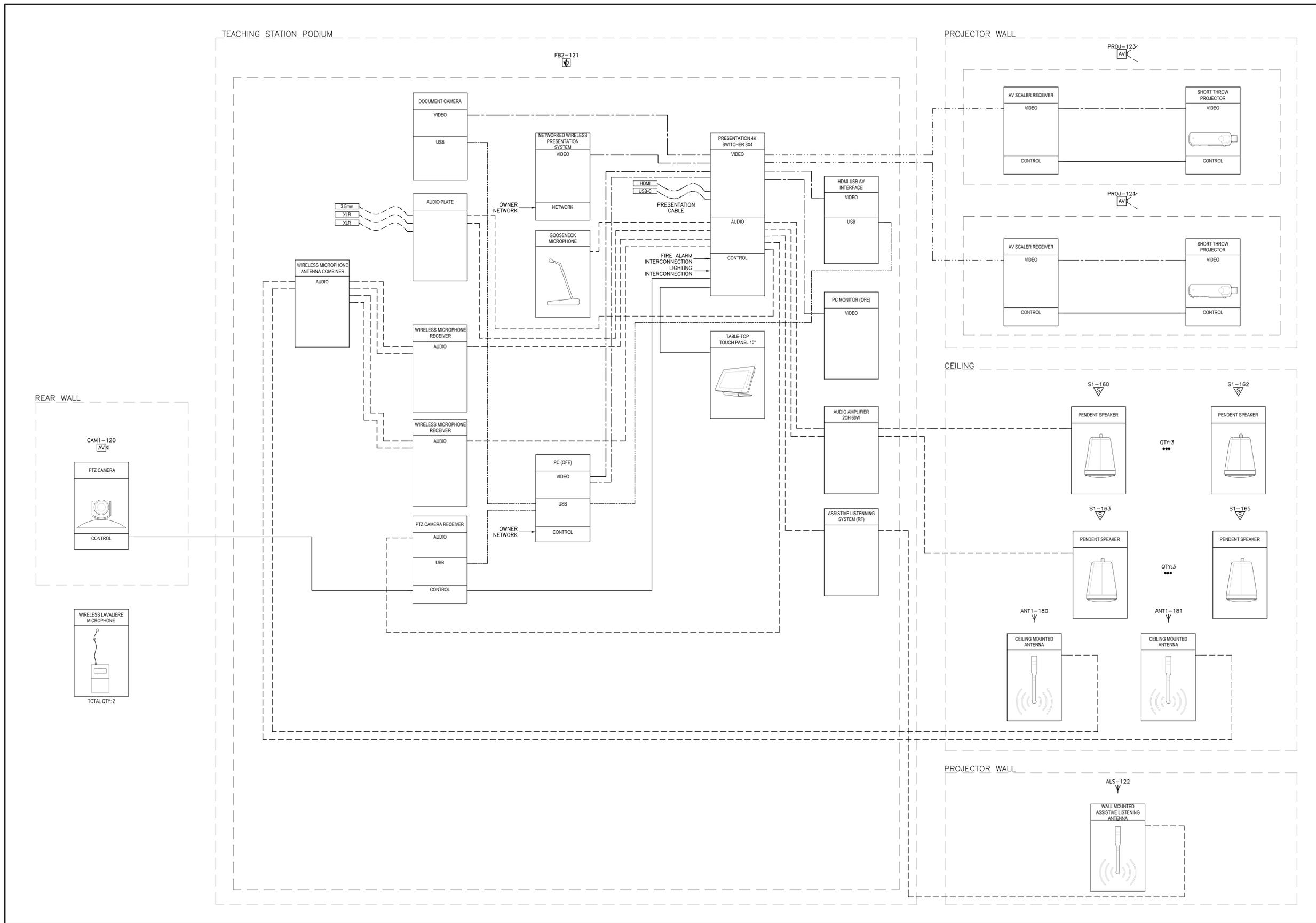
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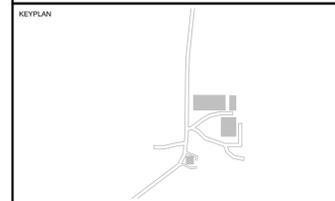
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| PROJECT NO.: | | | |
| DRAWN BY: | S.R. | | |
| CHECKED BY: | P.G. | | |



1 TYPE 3 - FORENSIC TEACHING CLASSROOM
TYPICAL SYSTEM FUNCTIONAL SCHEMATIC

| LEGEND | |
|---------|-------|
| HD0898T | ----- |
| VIDEO | ----- |
| AUDIO | ----- |
| CONTROL | ----- |
| USB | ----- |



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