



Pre-Engineered Building

University of Toronto Mississauga

3265 Principal's Road, Mississauga

Issued for Tender 2024-11-25

ARCHITECTURAL

Baird Sampson Neuert Architects
317 Adelaide St W, Suite 1002
Toronto, Ontario
M5V 1P9
T 416 363 8877

CIVIL

MTE Consultants Inc.
970 Lawrence Ave W, Suite 600
Toronto, Ontario
M6A 3B6
T 416 489 7888

LANDSCAPE

FRP Inc.
1877 Davenport Road
Toronto, Ontario
M6N 1B9
T 416 533 4990

MECHANICAL, ELECTRICAL, FIRE PROTECTION, TELECOMMUNICATION and SECURITY

The HIDI Group Inc.
155 Gordon Baker Road
Toronto, Ontario
M2H 3N5
T 416 364 2100

AUDIO / VISUAL

Smith + Andersen
100 Sheppard Ave E, Suite 1100
Toronto, Ontario
M2N 6N5
T 416 487 8151

STRUCTURAL - FOUNDATION

Artas Engineering & Design Inc.
413 Hibernia St., Unit 3
Stratford, Ontario
N5A 5W2
T 519 495 5976

STRUCTURAL - FRAME

U-Build Steel Buildings
120 Eastview Drive
Winkler, Manitoba
R6W 0K3
T 204 325 4368

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
	EASTERN FLOWERING DOGWOOD COMPENSATION PLANTING PLAN
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

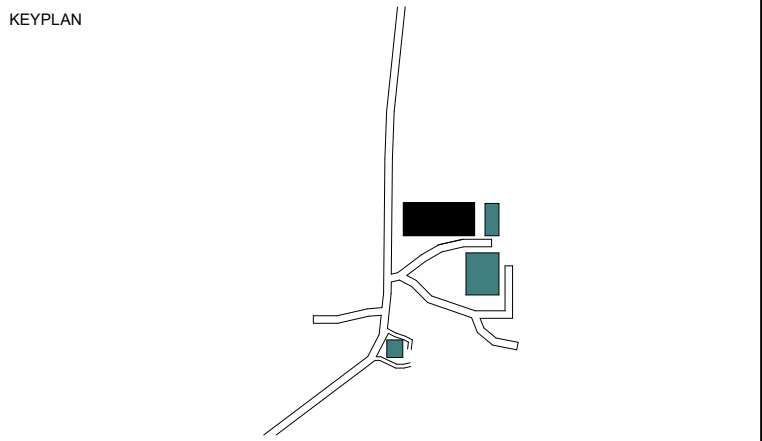
SECURITY DRAWING LIST	
Sheet Number	Sheet Name
SD-001	LEGEND, DRAWING LIST AND NOTES
SD-002	SPECIFICATIONS
SD-201	GROUND FLOOR SECURITY LAYOUT
SD-401	DETAILS

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
	GENERAL 3D VIEW
1	DRAWING SCHEDULE
1A	GENERAL INFORMATION SHEET AND CONFORMANCE
1B	GENERAL INFORMATION SHEET
1C	GENERAL INFORMATION SHEET
2	ANCHOR ROD PLAN
2A	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



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

University of Toronto Mississauga

Pre-Engineered Building

3265 Principal's Road, Mississauga, Ontario

COVER SHEET & DRAWING LIST

architects
Baird Sampson Neuert

416.363.8877 bsnarchitects.com







REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, 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, A PART OF WF GROUP. DO NOT SCALE THIS DRAWING.

COPYRIGHT © BSN Architects, A Part of WF Group Inc.

SCALE :	1 : 1	SHEET NO.:	A000
DATE :	03/28/2024		
PROJECT NO.:	2301		
DRAWN BY :	Author		
CHECKED BY :	Checker		



CLIENT LOGO		
<div><div>UNIVERSITY OF TORONTO MISSISSAUGA</div></div>		
<div><div>TRUE NORTH</div><div>PROJECT NORTH</div></div>		
No.	ISSUANCE	DATE
1	Issued for Class C Costing	2023-12-06
2	Issued for PEB Scope RFP	2023-12-15
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		
3265 Principal's Road, Mississauga, Ontario		
TITLE		
LIFE SAFETY AND CODE MATRIX		
<div><div>architects</div><div>Baird Sampson Neuert</div></div>		
416.363.8877 bsnarchitects.com		
SEAL		
<div></div>		
REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS. A PART OF W.F. GROUP, 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, A PART OF W.F. GROUP. - DO NOT SCALE THIS DRAWING -		
COPYRIGHT © BSN Architects, A Part of WF Group Inc.		
SCALE : 1 : 150	SHEET NO :	
DATE : 06/16/20	<div>A002</div>	
PROJECT NO : 2301		
DRAWN BY : Author		
CHECKED BY : Checker		

ASSEMBLIES

WALL ASSEMBLIES

W1:	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-ft ² °F/Btu MINIMUM HORIZONTAL GALVANIZED STEEL Z-GIRTS. REFER TO STRUCTURAL 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	BY OTHER
------------	---	----------

W1A:	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-ft ² °F/Btu MINIMUM HORIZONTAL GALVANIZED STEEL Z-GIRTS 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	BY OTHER
-------------	--	----------

W2:	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:	W2A: CANOPY FOUNDATION WALL CONCRETE FOUNDATION WALL (REFER TO STRUCTURAL)	BY OTHER
W3:	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

ROOF ASSEMBLIES

R1:	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-ft ² °F/Btu MINIMUM	BY OTHER
R2:	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 CANOPY SOFFIT ASSEMBLY AS NOTED	BY OTHER

GLAZING ASSEMBLIES

G1:	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:	G1A: ALUMINUM STOREFRONT GLAZING, SINGLE GLAZED AT VESTIBULE INTERIOR 115mm MULLION BODY DEPTH ALUMINUM STOREFRONT GLAZING MIN 6mm TEMPERED GLASS (GL4)	
G2:	G2: FIRE RATED CURTAIN WALL GLAZING (1hr FRR) THERMALLY BROKEN FIRE RATED STEEL CURTAIN WALL FRAMING FIRE RATED INSULATED GLAZING UNIT (GL2)	
GP1:	GP1: INTERIOR GLAZED HOLLOW METAL SCREEN 38mm FACE WIDTH PAINTED HOLLOW METAL FRAMING MIN 6mm TEMPERED GLASS (GL4)	
GP2:	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:	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/°F-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 (5mm NOMINAL)**

FLOOR ASSEMBLIES

F1:	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:	F2: MECHANICAL MEZZANINE FLOOR POURED CONCRETE ON COMPOSITE STEEL DECK. REFER TO STRUCTURAL	
C1:	C1: 16MM GYPSUM BOARD CEILING PAINTED 16MM GYPSUM CEILING PANEL 75mm ACOUSTIC MINERAL WOOL BATT INSULATION METAL CEILING FRAMING AS REQUIRED	
C1A:	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 510mm 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:	C2: ACOUSTIC BAFFLES 9" DEEP ACOUSTIC BAFFLES SPACED 18" OC ON CABLE SUSPENSION SYSTEM	
S1:	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:	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:	P1A: GYPSUM WALL BOARD PARTITION 1 HR F.R.R (ULC W463) 16mm PAINTED GYPSUM WALL BOARD. 92mm STEEL STUDS @ 450mm o.c. MAX 89 mm MINERAL WOOL BATT INSULATION 16mm PAINTED GYPSUM WALL BOARD.	
P2:	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:	P2A: GYPSUM WALL BOARD PARTITION 1 HR F.R.R (ULC W463) 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			
Ratings			
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 (UL/cUL CLASSIFIED) WITH MINIMUM 3-1/2" WIDE STEEL STUDS (1-HR. FIRE-RATING). 4. MINIMUM 5/8" DEPTH HILTI CP 606 FLEXIBLE FIRESTOP SEALANT.			
NOTES : 1. MAXIMUM WIDTH OF JOINT = 1/2". 2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1". 3. [NOT SHOWN] WHEN ANNULAR SPACE IS 0", APPLY MINIMUM 1/2" BEAD HILTI CP 606 FLEXIBLE FIRESTOP SEALANT AT POINT OF CONTACT. 4. 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 FPE Austin Griffith NG Date Sep. 03, 2024	
Sheet 1 of 1 Scale 5/32" = 1"		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	LAM	LAMINATE
	AND MATERIALS	LED	LIGHT EMITTING DIODE
AC	AIR CONDITIONING	m	METRES
ALUM	ALUMINUM	MAX	MAXIMUM
ARCH	ARCHITECTURAL	MDF	MEDIUM DENSITY FIBREBOARD
ASPH	ASPHALT	MECH	MECHANICAL
AV	AUDIO-VISUAL	MEZZ	MEZZANINE
BD	BOARD	MIN	MINIMUM
BLDG	BUILDING	MIR	MIRROR
CB	CATCH BASIN	MISC	MISCELLANEOUS
CFM	CUBIC FEET PER MINUTE	mm	MILLIMETER
CG	CORNER GUARD	N	NORTH
CGSB	CANADIAN GENERAL STANDARD BOARD	ND	NAPKIN DISPOSAL
CJ	CONTROL JOINT	NIC	NOT IN CONTRACT
Cm	CENTIMETER	NFPA	NATIONAL FIRE PREVENTION ASSOCIATION
CONC	CONCRETE	No.	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	SCH	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
GFI	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	HOURLY	WD	WOOD
HT	HEIGHT	WPM	WATERPROOF MEMBRANE
IGU	INSULATED GLAZING UNIT	WR	WASHROOM
IMP	INSULATED METAL PANEL	WS	WEATHERSTRIPPING

DRAWING ANNOTATIONS

DRAWING LEGEND

FHC	FIRE HOSE CABINET C/W FIRE EXTINGUISHER.
101	DOOR NUMBER
W22	WINDOW NUMBER
RWL	RAIN WATER LEADER
FD	FLOOR DRAIN. REFER TO MECH.
FB	RECESSED FLOOR BOX. REFER TO ELEC..
CR	CARD READER. REFER TO ELEC.
DO	AUTOMATIC DOOR OPERATOR CONTROL. REFER TO ELEC.
	OWNER PROCURED FURNITURE

ELEVATION LEGEND

	GLAZING
TEMP.	TEMPERED GLAZING
	IMP 1 - METALIC MEDIUM GREY
	IMP 2 - CHARCOAL
	IMP 3 - METALIC COPPER / ORANGE

GENERAL NOTES

ALL DRAWINGS , SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR WHOLE IS FORBIDDEN WITHOUT THE ARCHITECT'S WRITTEN PERMISSION.

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 'ISSUED FOR CONSTRUCTION'

NOTES:
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

CLIENT

University of Toronto Mississauga

PROJECT

Pre-Engineered Building

3265 Principal's Road, Mississauga, Ontario

TITLE

ASSEMBLIES, LEGENDS & NOTES

architects
Baird Sampson Neuf

416.363.8877 bsnarchitects.com



REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS. A PART OF WF GROUP. 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. A PART OF WF GROUP. DO NOT SCALE THIS DRAWING.

COPYRIGHT © BSN Architects. A Part of WF Group Inc.

SCALE :	As Indicated	SHEET NO :
DATE :	06/16/20	
PROJECT NO :	2301	
DRAWN BY :	Author	
CHECKED BY :	Checker	

A003

ROOM FINISH SCHEDULE												
Room Number	Room Name	Area	Floors		Walls				Ceiling Finish	SIGNAGE REQUIREMENTS - REFER TO SIGNAGE PACKAGE		
			Floor Finish	Base Finish	North	East	South	West				
100K	Corridor	29 m²	FF-1	WB-1	PTD	PTD	PTD	PTD	EXP			
100V	Vestibule	6 m²	FF-4	WB-1	n/a	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	HM	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	HM	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.

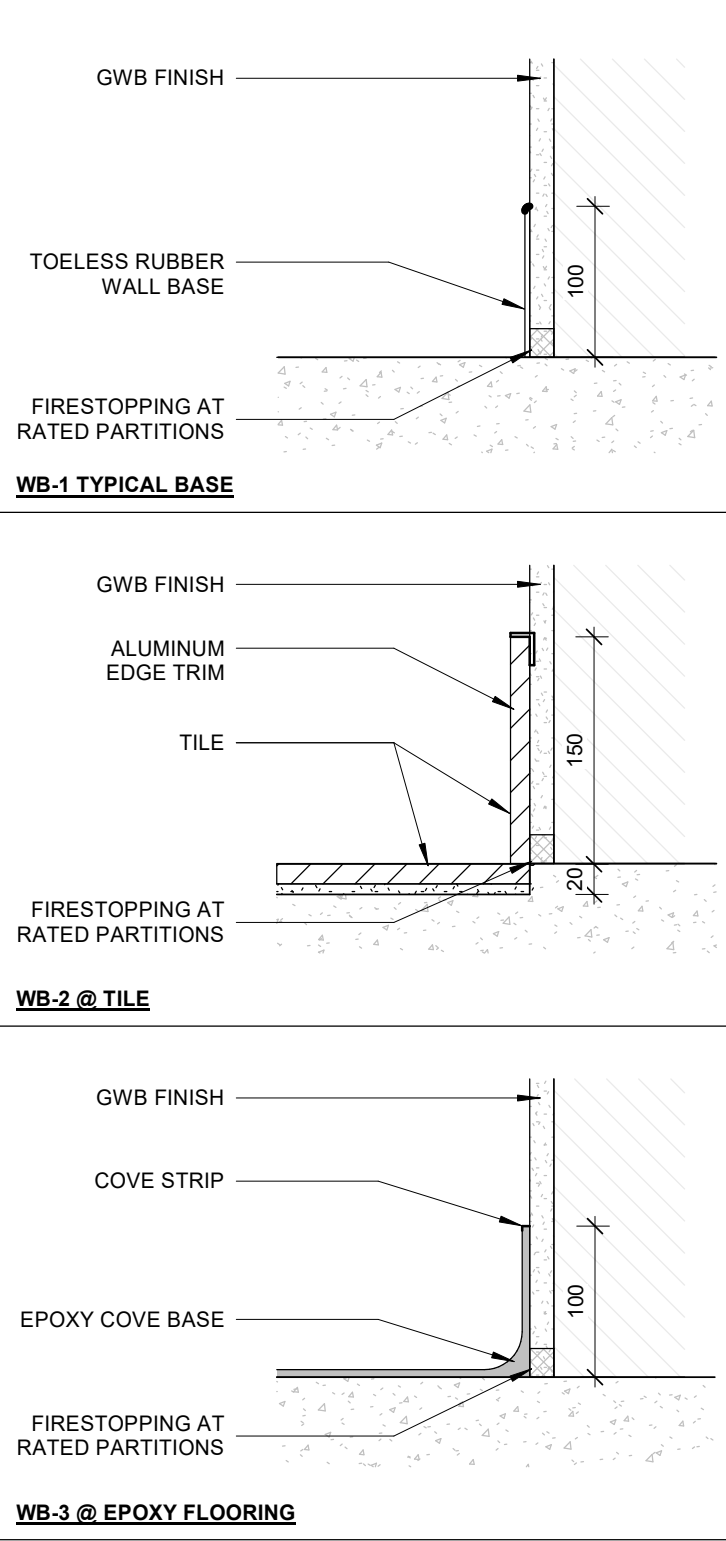
WALL FINISHES

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

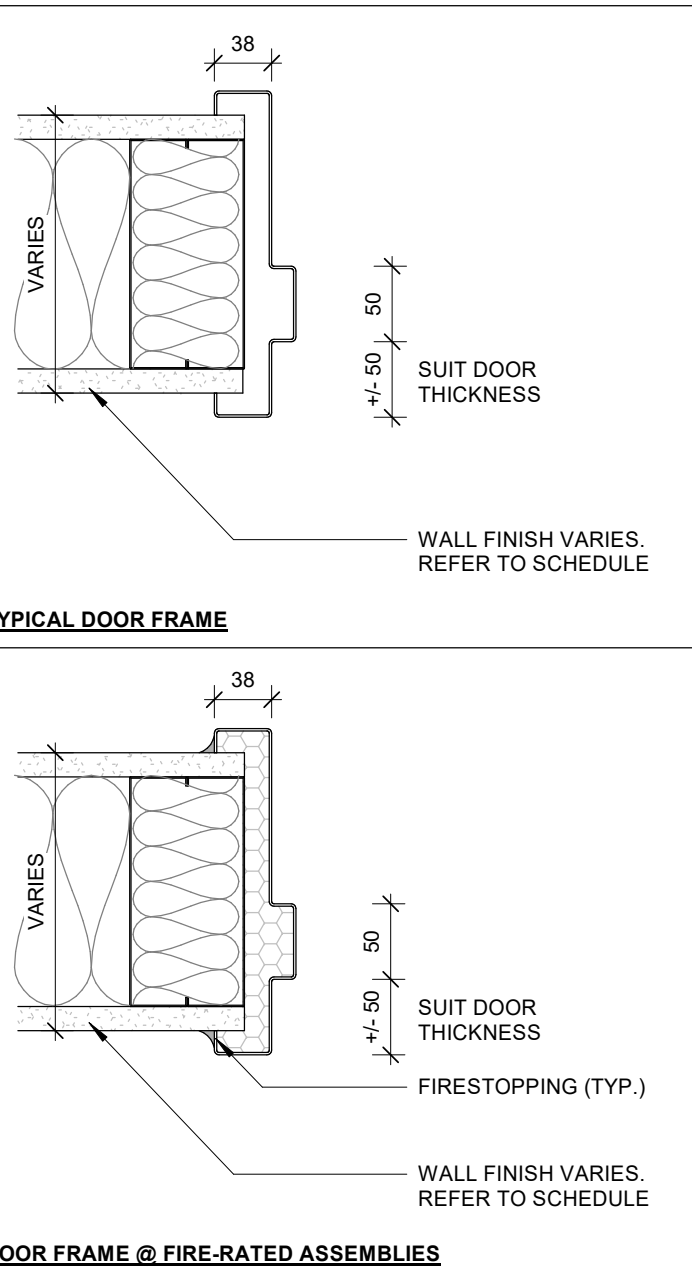


TYPICAL WALL BASE DETAILS

DOOR & SCREEN SCHEDULE

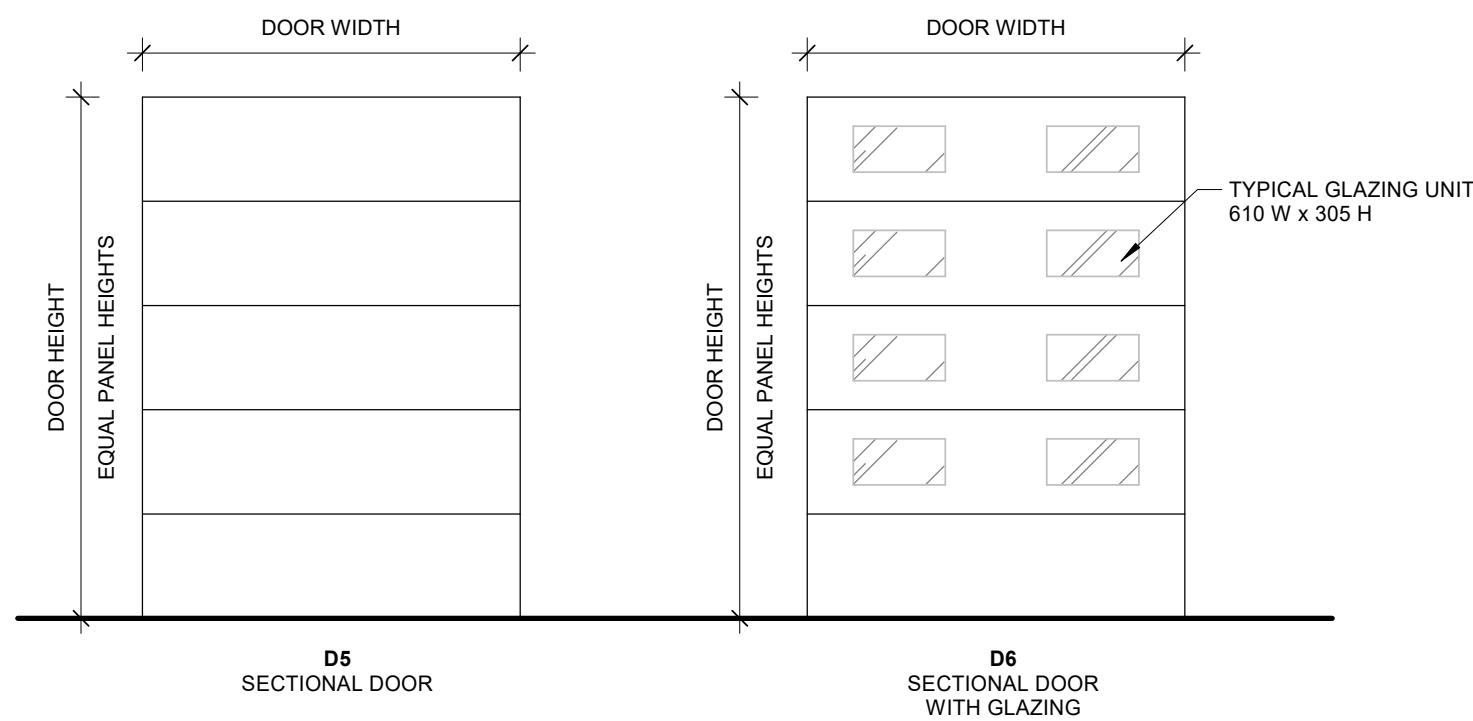
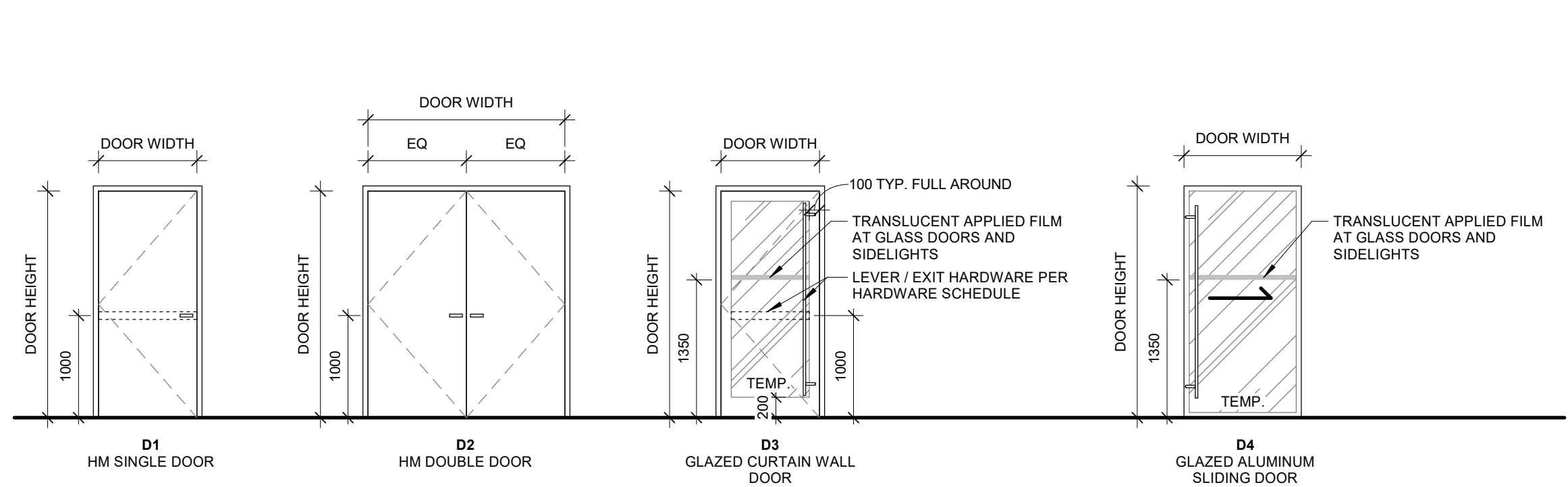
Door Mark	Location	Width	Height	Door Type / Elev	Material	Finish	Glazing	Frame Material	Finish	Hardware Schedule Set *	Fire Rating	Insulated / Thermal Break	Notes
GROUND FLOOR													
100V	Vestibule	965	2240	D3	AL	PTD	GL1A	AL	PTD	9.0		No	
101	Office	965	2240	D1	HM	PTD		HM	PTD	11.0		No	
102	Forensic 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		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



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

CLIENT

University of Toronto Mississauga

PROJECT

Pre-Engineered Building

3265 Principal's Road, Mississauga, Ontario

TITLE

SCHEDULES

architects
Baird Sampson Neuert

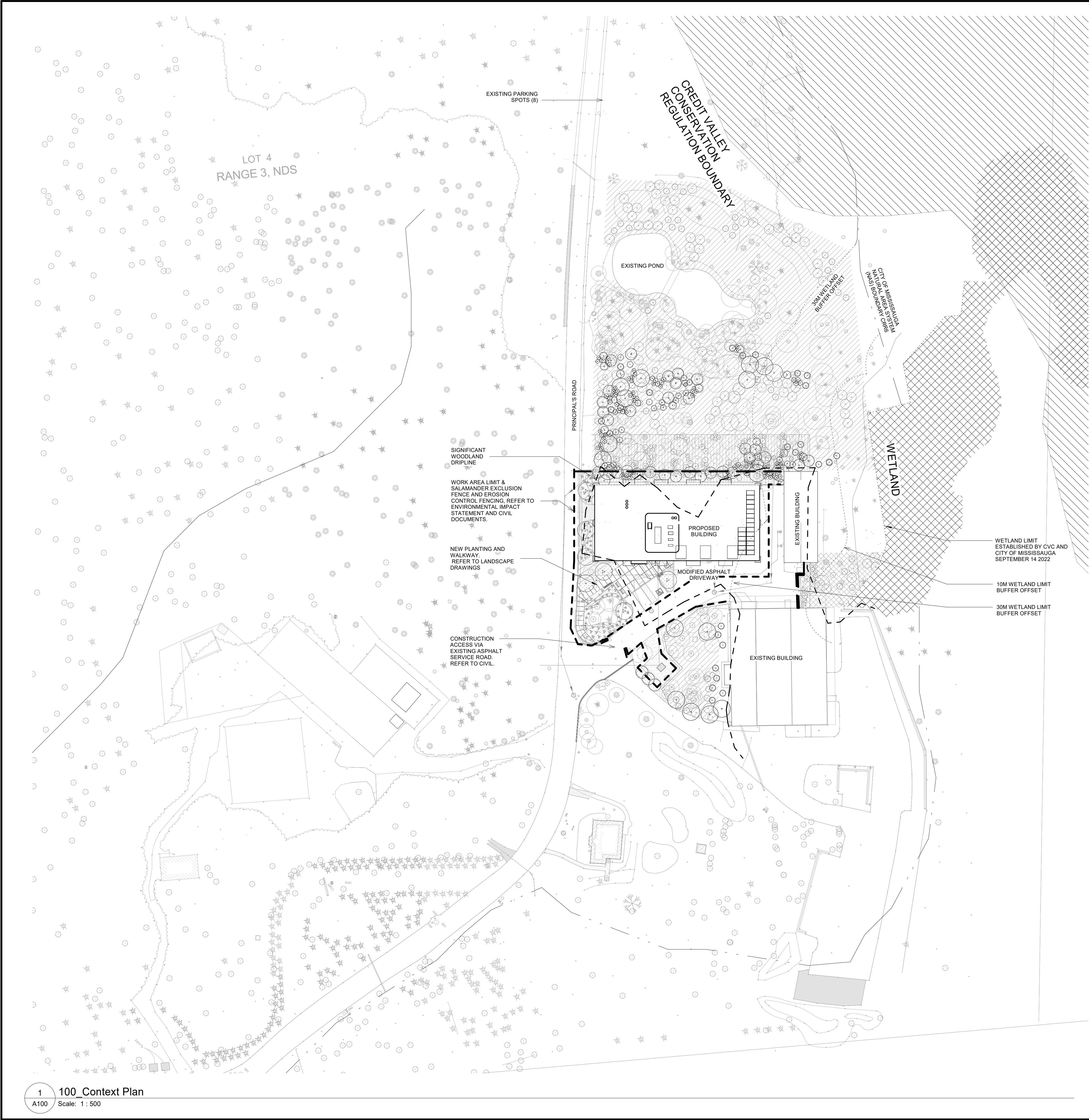
416.363.8877 bsnarchitects.com



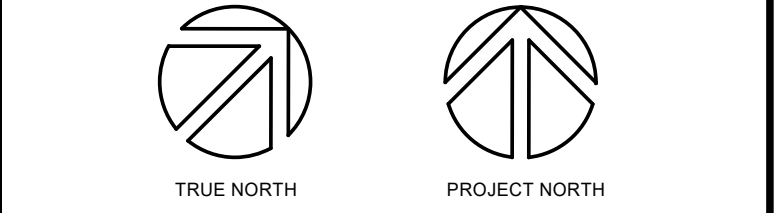
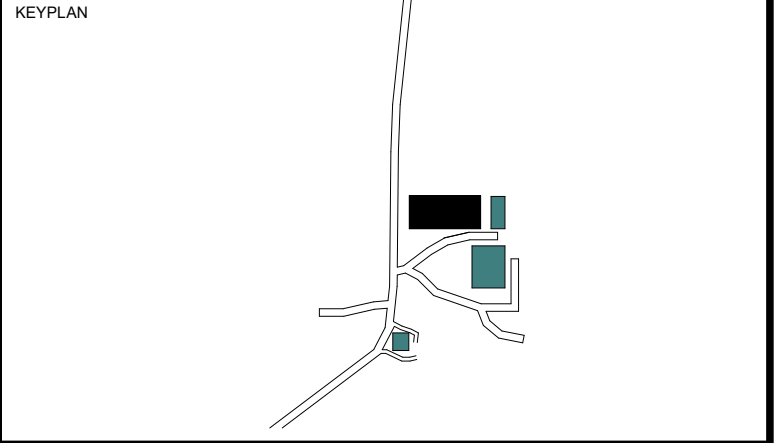
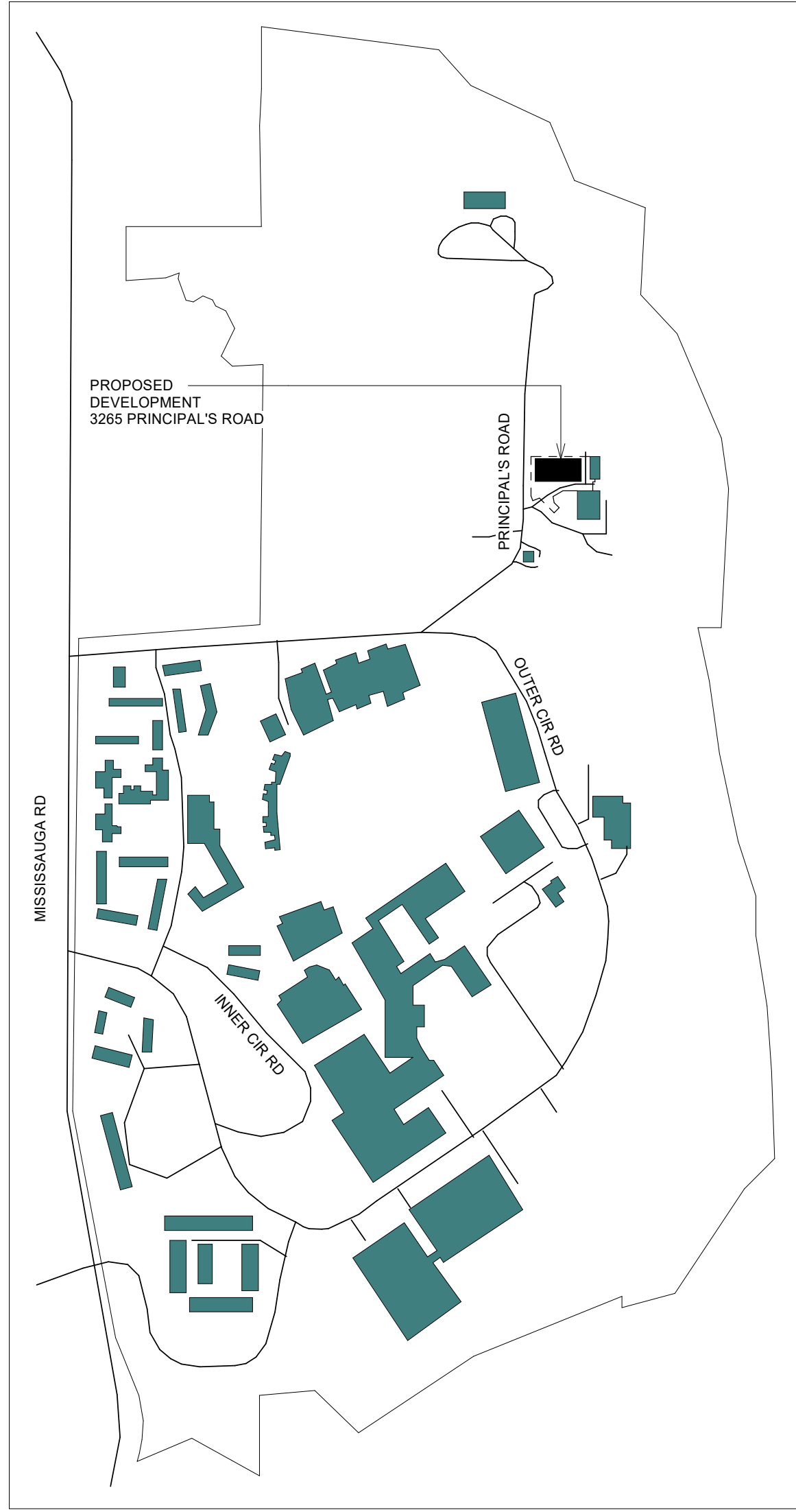
REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS,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

COPYRIGHT © BSN Architects, A Part of WF Group Inc.

SCALE :	As Indicated	SHEET NO :	A004
DATE :	06/16/20		
PROJECT NO :	2301		
DRAWN BY :	Author		
CHECKED BY :	Checker		



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



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

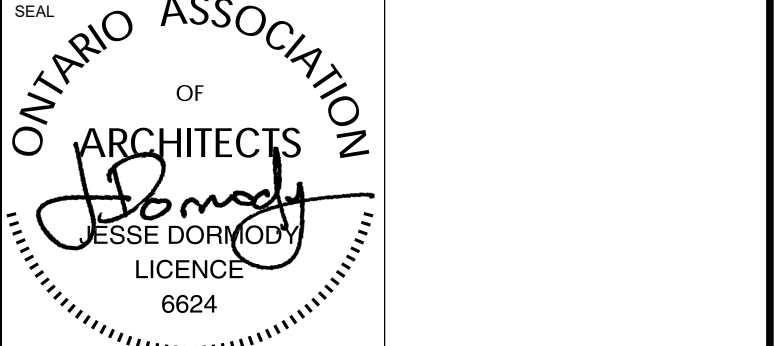
CLIENT
University of Toronto Mississauga

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

TITLE
CONTEXT PLAN

architects
Baird Sampson Neurt

416.363.8877 bsnarchitects.com

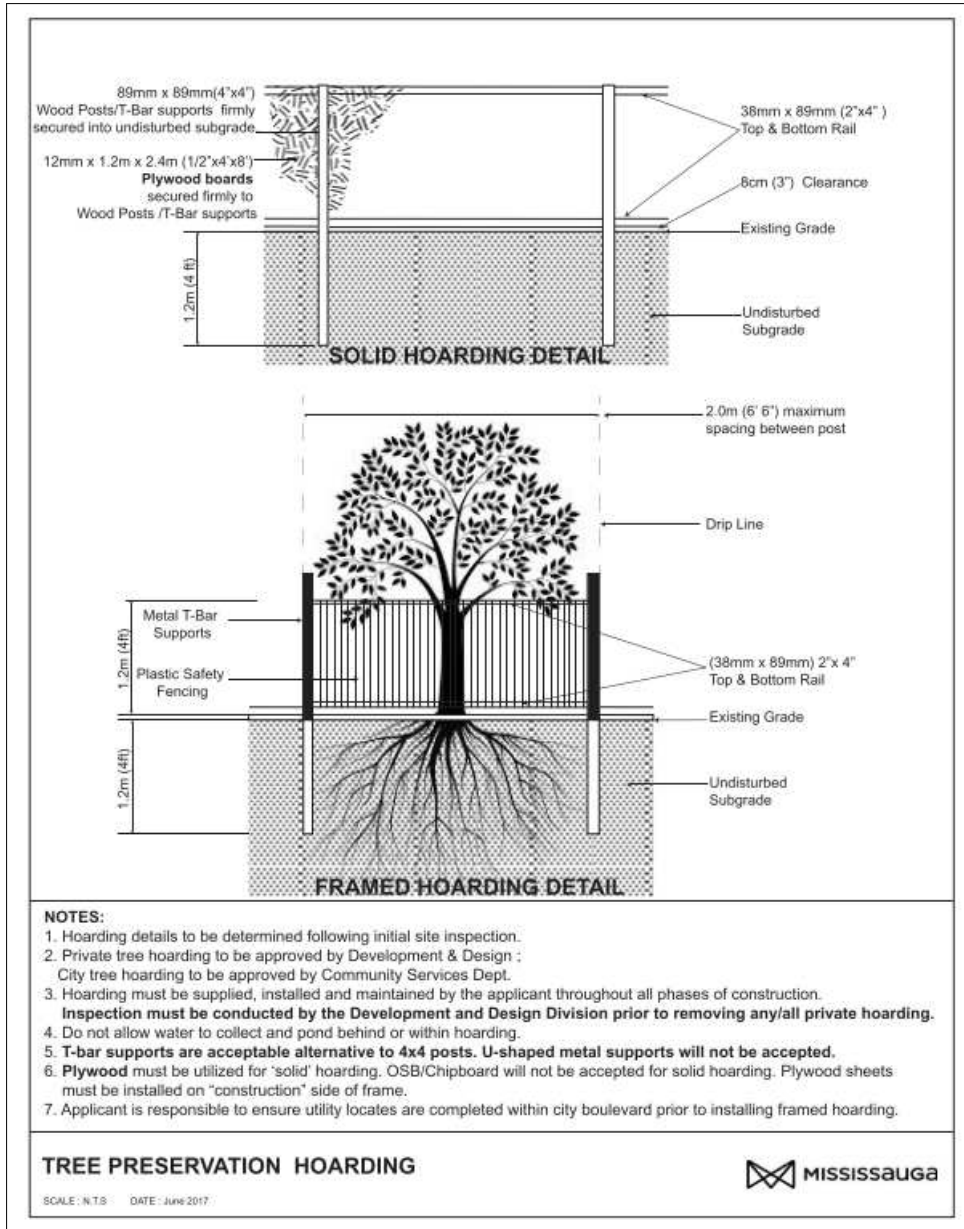


REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS,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

COPYRIGHT © BSN Architects, A Part of WF Group Inc.	
SCALE: As Indicated	SHEET NO:
DATE: 05/24/20	A100
PROJECT NO: 2301	
DRAWN BY: Author	
CHECKED BY: Checker	

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 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 B7N RANGE 2 & RANGE 3 NDS - 43R31817 PTS 4-6, 43R-18296 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: 95m2 (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)



- NOTES:
- Hoarding details to be determined following initial site inspection.
 - Private tree hoarding to be approved by Development & Design.
 - City tree hoarding to be approved by Community Services Dept.
 - Hoarding must be supplied, installed and maintained by the applicant throughout all phases of construction. Inspection must be conducted by the Development and Design Division prior to removing any/all private hoarding.
 - Do not allow water to collect and pond behind or within hoarding.
 - T-bar supports are acceptable alternative to 4x4 posts. Unlashed metal supports will not be accepted.
 - Plywood must be utilized for 'solid' hoarding. OSB/Chipboard will not be accepted for solid hoarding. Plywood sheets must be installed on 'interior' side of frame.
 - Applicant is responsible to ensure utility locates are completed within city boulevard prior to installing framed hoarding.

TREE PRESERVATION HOARDING



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.

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 C2.1, Revision 4, for the purposes of obtaining site grading information.

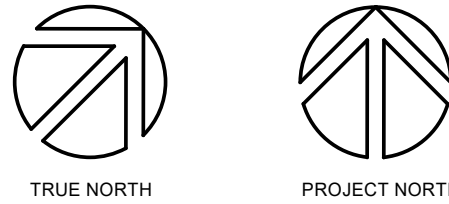
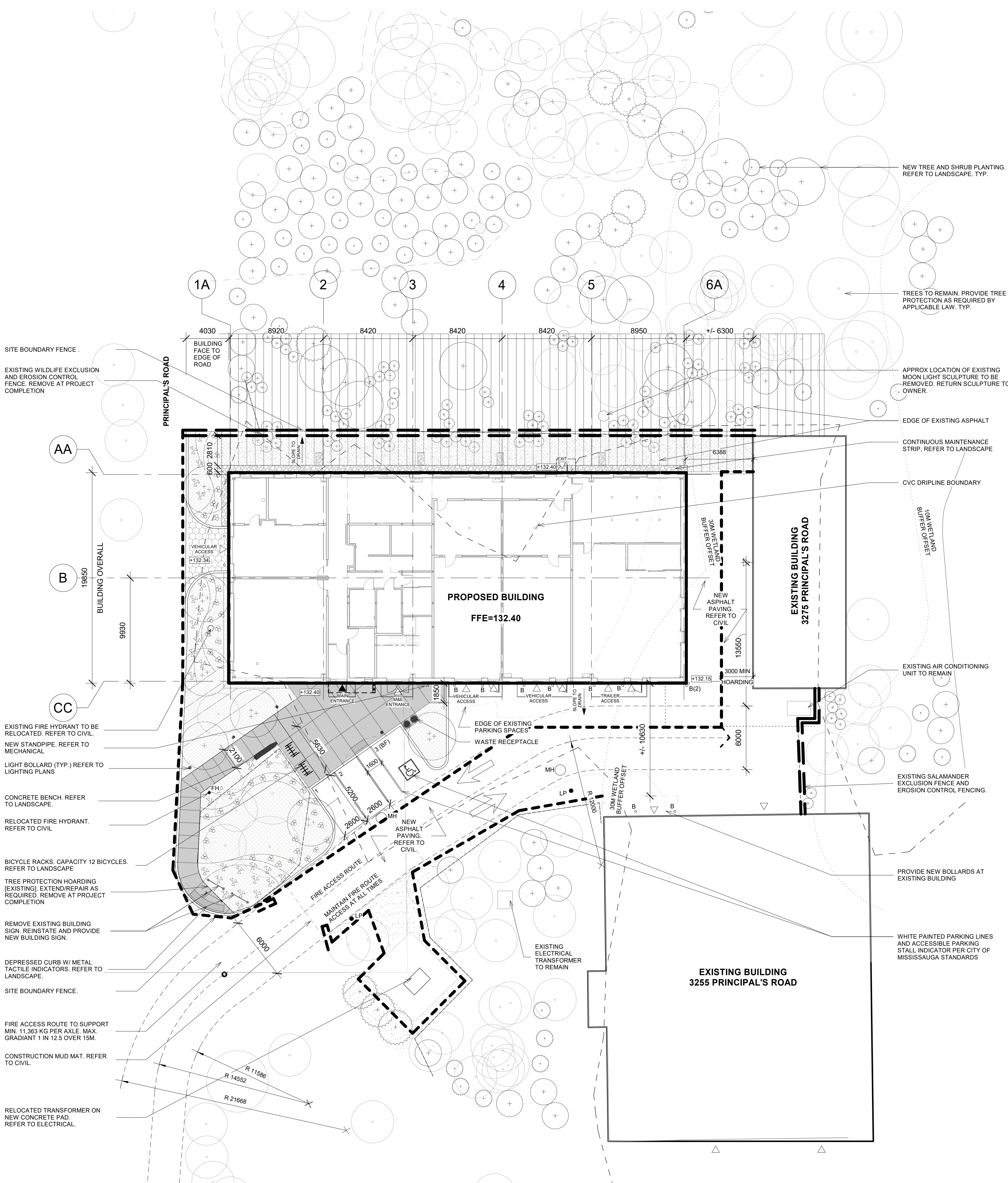
Prior to commencing construction, all required hoarding, in accordance with the Ontario Occupational Health & Safety Act and Regulations for construction projects, must be erected and then maintained throughout all phases of the project.

SITE PLAN LEGEND

- AREA OF WORK BOUNDARY LINE AND SITE BOUNDARY FENCE.
- 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
- CONC. FILLED STEEL BOLLARD
- MANHOLE. REFER TO CIVIL.
- FIRE HYDRANT. REFER TO CIVIL.
- POLE MOUNTED LIGHT FIXTURE.

1 SITE PLAN

A101 Scale: 1 : 200



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

University of Toronto Mississauga

Pre-Engineered Building

3265 Principal's Road, Mississauga, Ontario

SITE PLAN

architects
Baird Sampson Neurt

416.363.8877 bsnarchitects.com

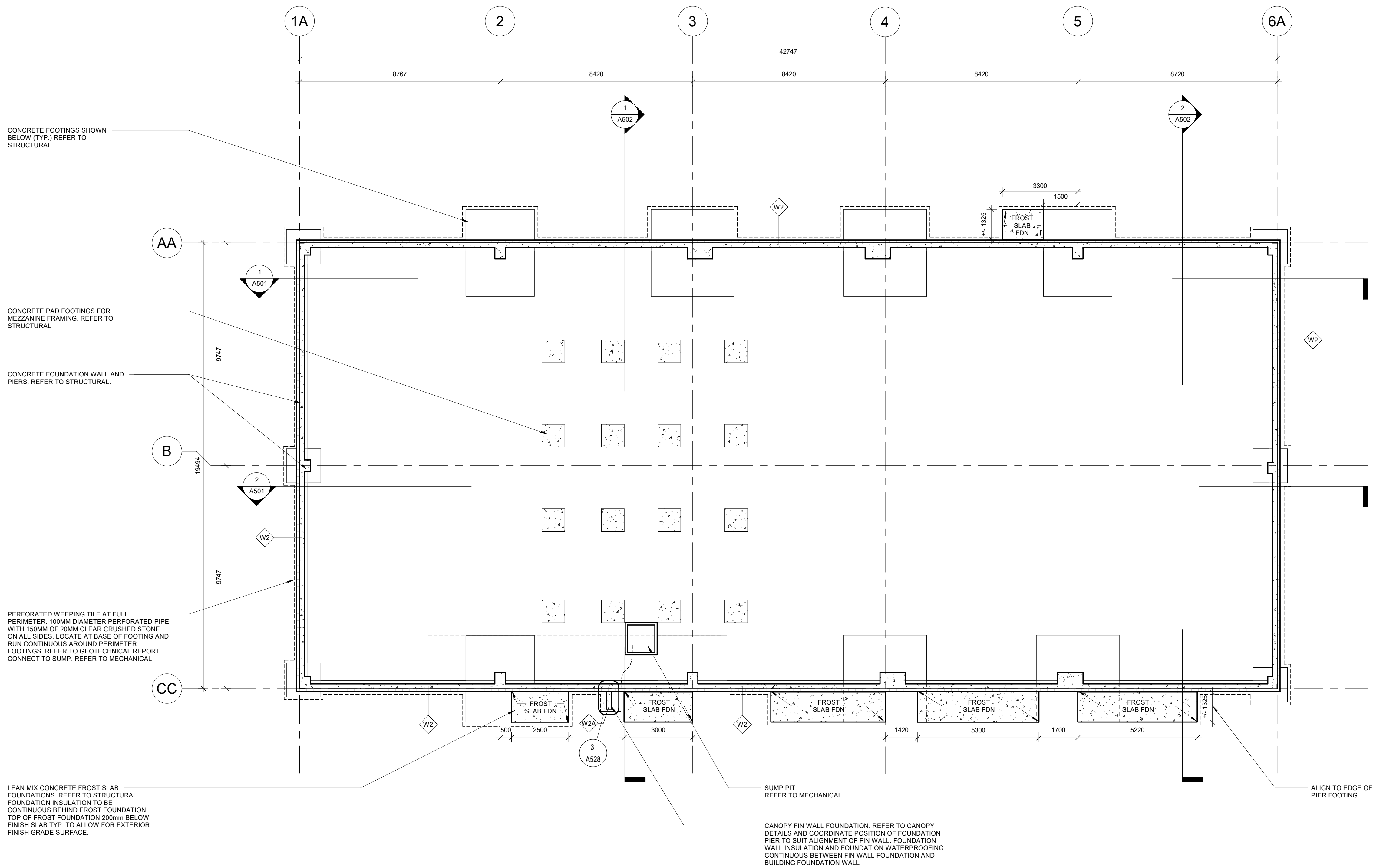


REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS. A PART OF WF GROUP. IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS.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

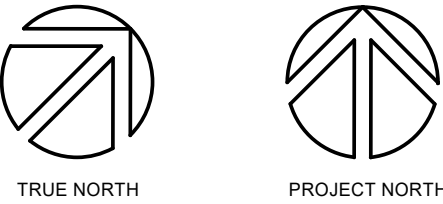
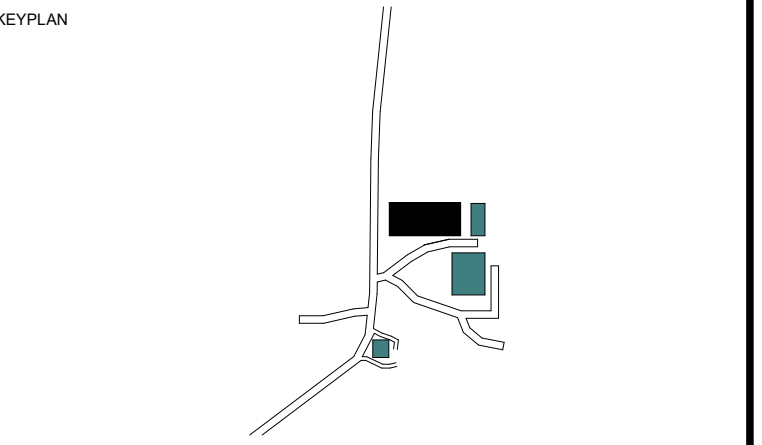
COPYRIGHT © BSN Architects. A Part of WF Group Inc.

SCALE:	As Indicated
DATE:	05/07/20
PROJECT NO:	2301
DRAWN BY:	Author
CHECKED BY:	Checker

A101



1 FOUNDATION PLAN
A200 Scale: 1 : 100



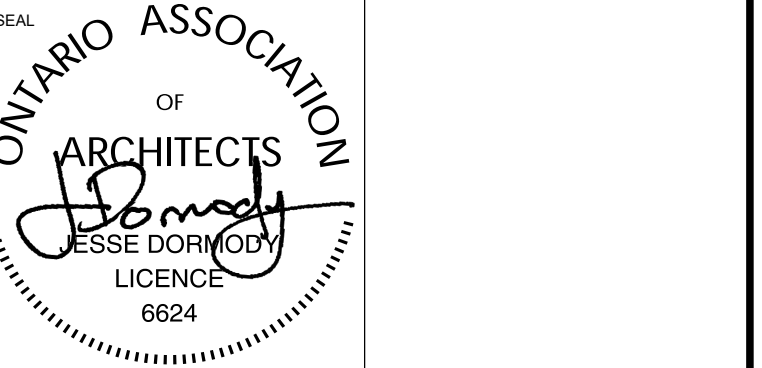
No.	ISSUANCE	DATE
1	Issued for Class C Costing	2023-12-06
2	Issued for PEB Scope RFP	2023-12-15
3	Issued for 100% SD	2023-12-21
4	Issued for SPA	2024-02-09
5	Issued for Design Development Costing	2024-03-28
6	Issued for Permit	2024-11-08
7	Issued for Tender	2024-11-25

CLIENT
University of Toronto Mississauga

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

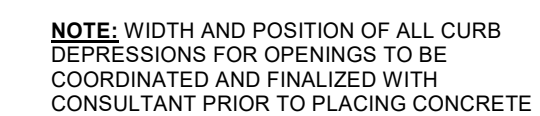
TITLE
FOUNDATION PLAN

architects
Baird Sampson Neuert
416.363.8877 bsnarchitects.com



REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, 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, A PART OF WF GROUP. - DO NOT SCALE THIS DRAWING -

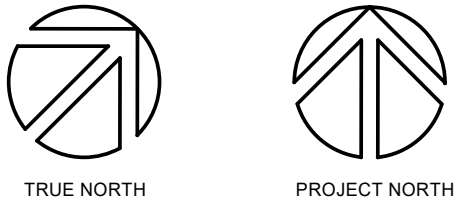
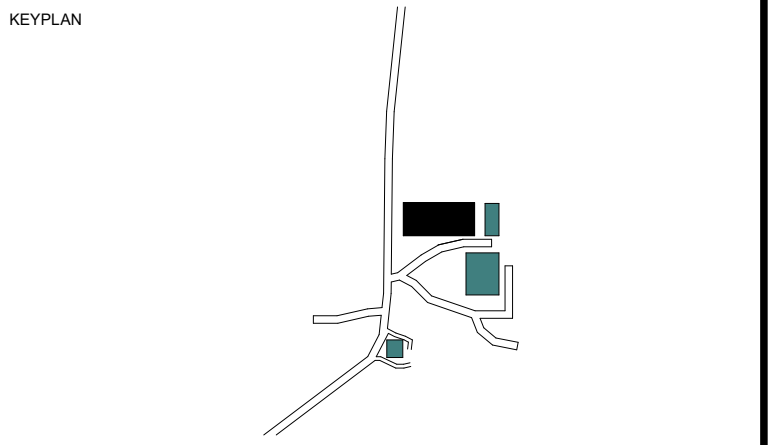
COPYRIGHT © BSN Architects, A Part of WF Group Inc.	
SCALE: 1 : 100	SHEET NO: A200
DATE: 05/12/20	
PROJECT NO: 2301	
DRAWN BY: Author	
CHECKED BY: Checker	



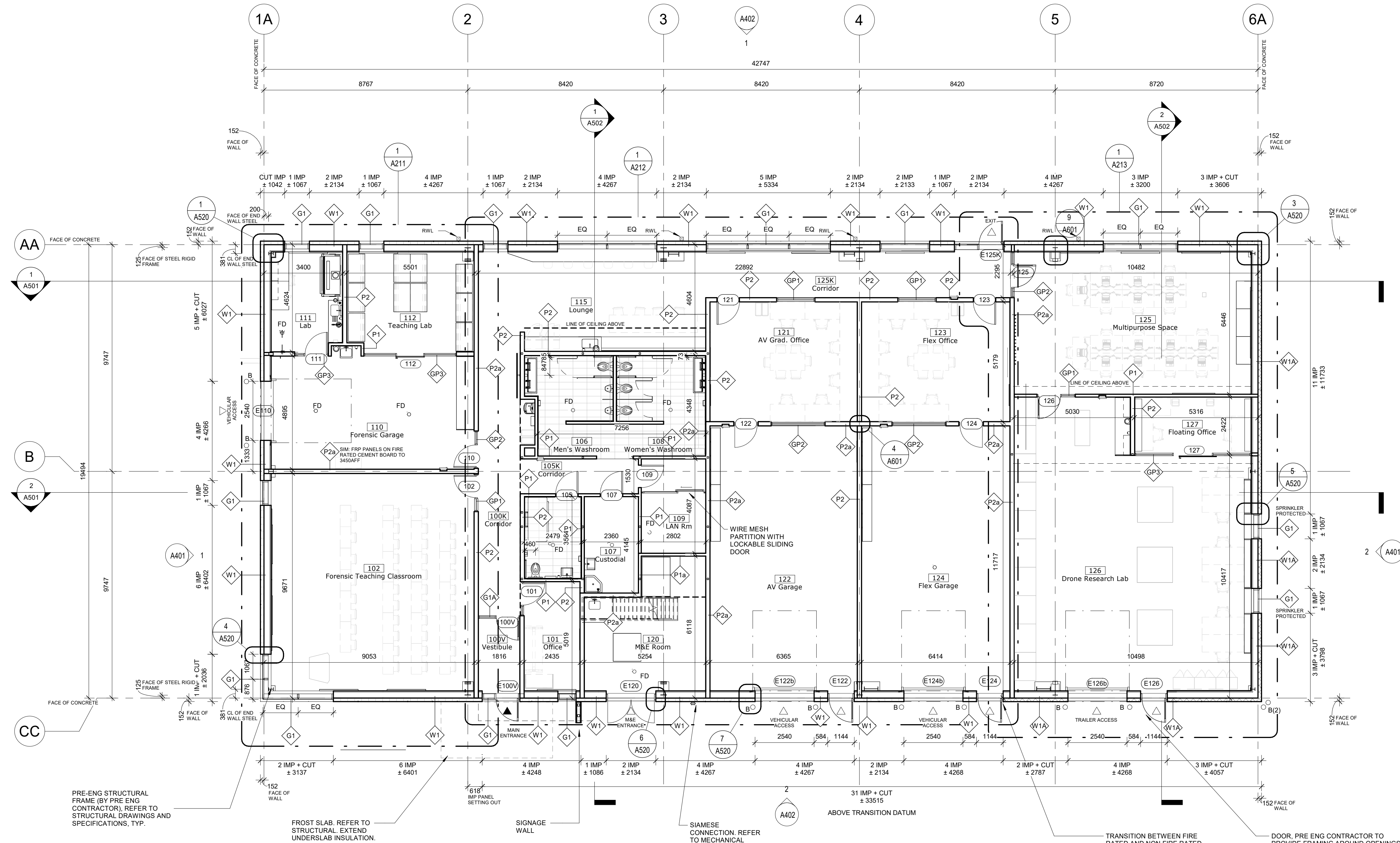
1 SLAB EDGE PLAN
A201 Scale: 1 : 100

SCALE :	As indicated	SHEET NO : <div style="font-size: 2em; font-weight: bold; text-align: center;">A201</div>
DATE :	05/12/20	
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. ALL DIMENSIONS FOR PARTITIONS ARE TO FACE OF STUD AND FROM GRIDLINE.



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



1 GROUND FLOOR PLAN
A202
Scale: 1 : 100

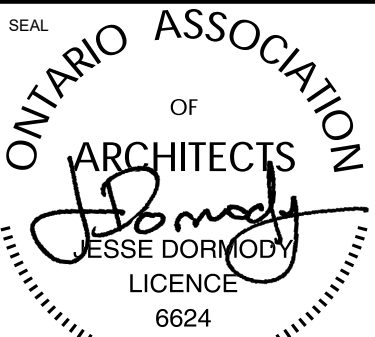
CLIENT
University of Toronto Mississauga

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

TITLE
GROUND FLOOR PLAN

architects
Baird Sampson Neuter

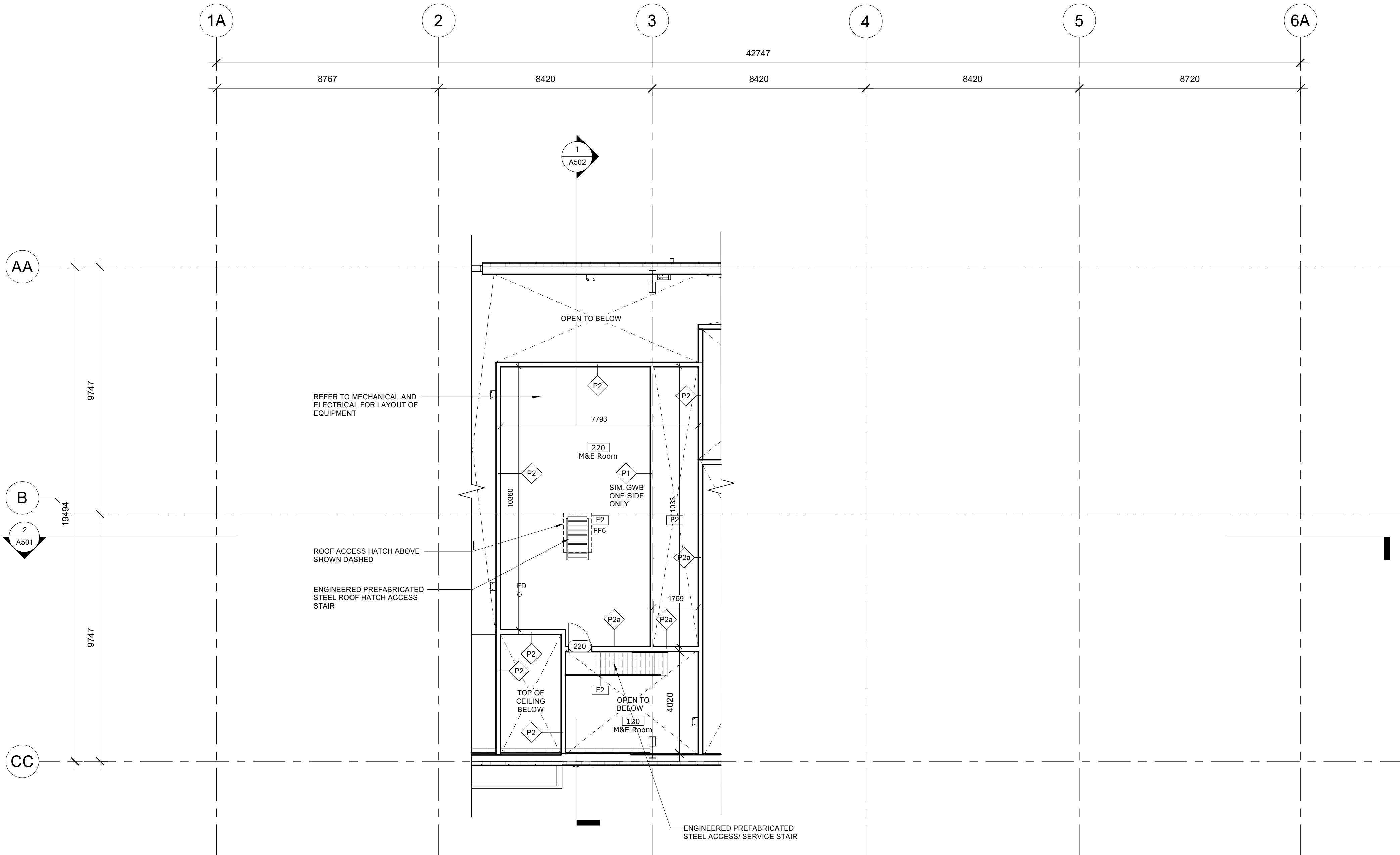
416.363.8877 bsnarchitects.com



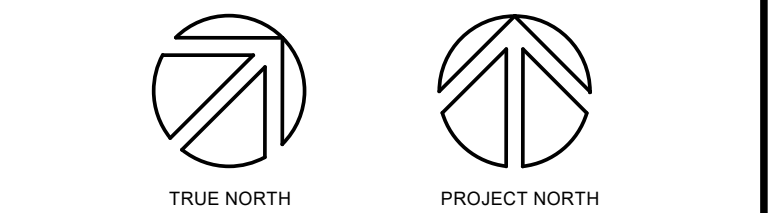
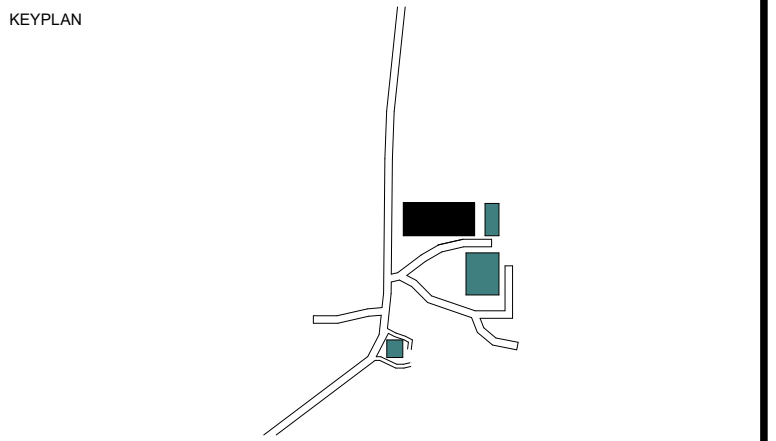
REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS,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

COPYRIGHT © BSN Architects, A Part of WF Group Inc.

SCALE: 1 : 100	SHEET NO: A202
DATE: 05/12/20	
PROJECT NO: 2301	
DRAWN BY: Author	
CHECKED BY: Checker	



1 MEZZANINE FLOOR PLAN
A203 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

CLIENT

University of Toronto Mississauga

PROJECT

Pre-Engineered Building

3265 Principal's Road, Mississauga, Ontario

TITLE

MEZZANINE FLOOR PLAN

architects

Baird Sampson Neuert

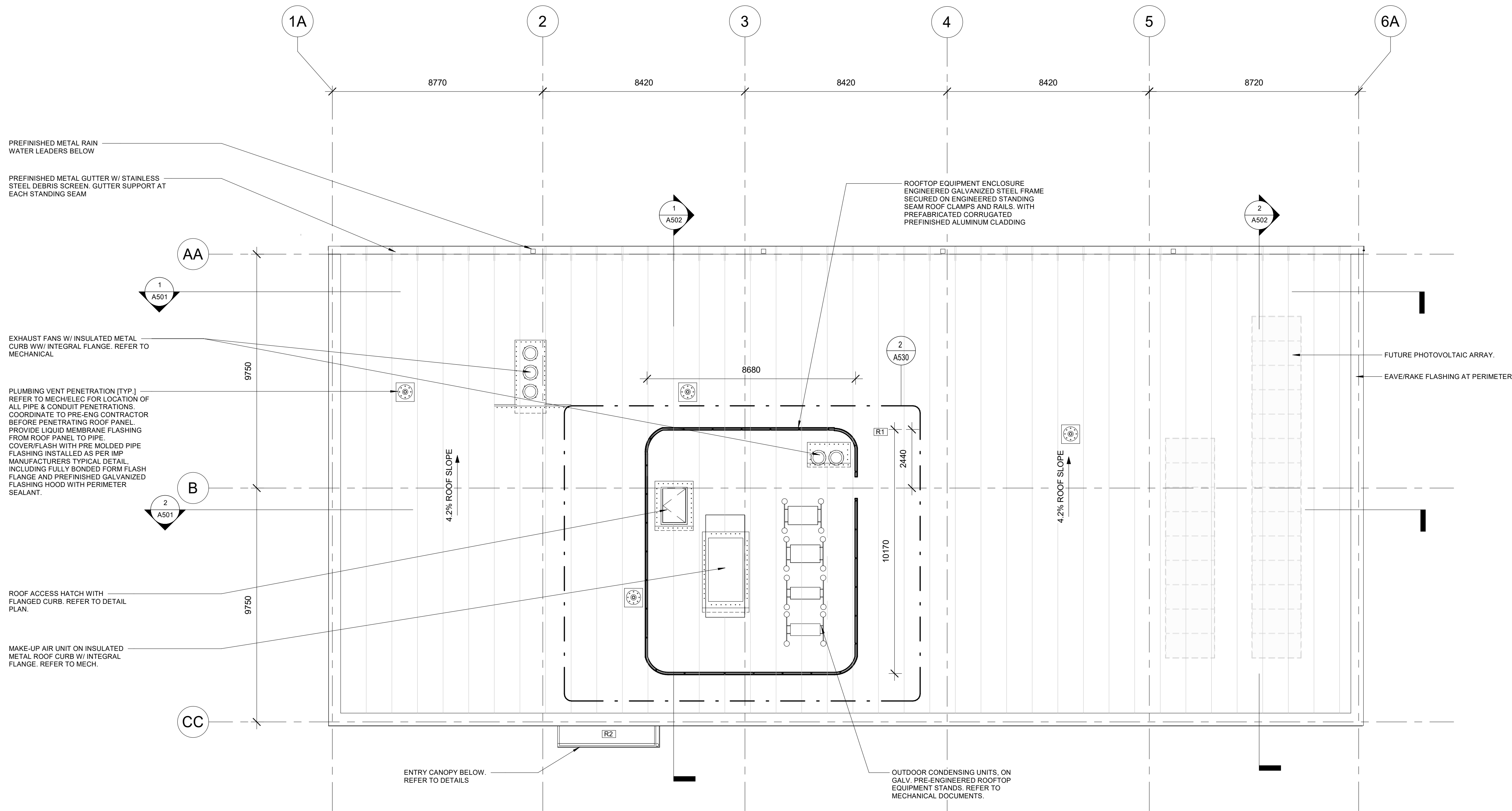
416.363.8877 bsnarchitects.com



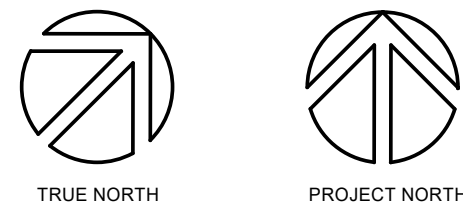
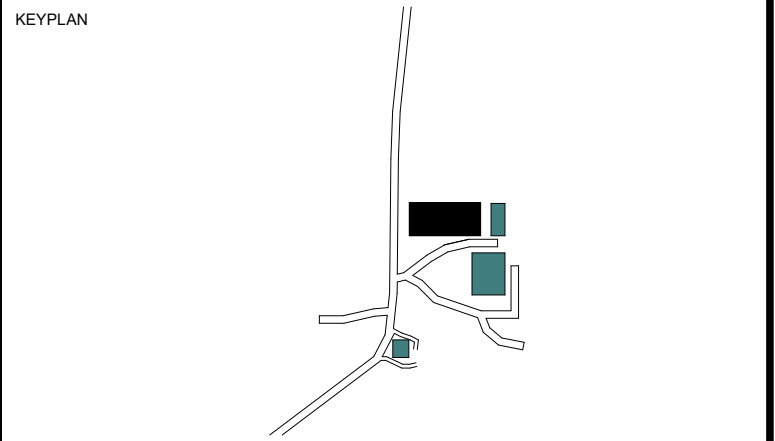
REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS,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

COPYRIGHT © BSN Architects, A Part of WF Group Inc.

SCALE: 1 : 100	SHEET NO: A203
DATE: 05/12/20	
PROJECT NO: 2301	
DRAWN BY: Author	
CHECKED BY: Checker	



- 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.



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

ROOF PLAN

architects

Baird Sampson Neuert

416.363.8877 bsnarchitects.com

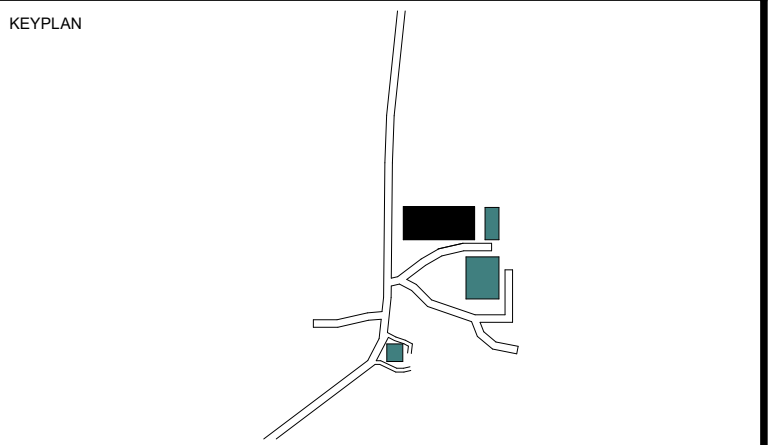


REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS,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

COPYRIGHT © BSN Architects, A Part of WF Group Inc.

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

A211



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

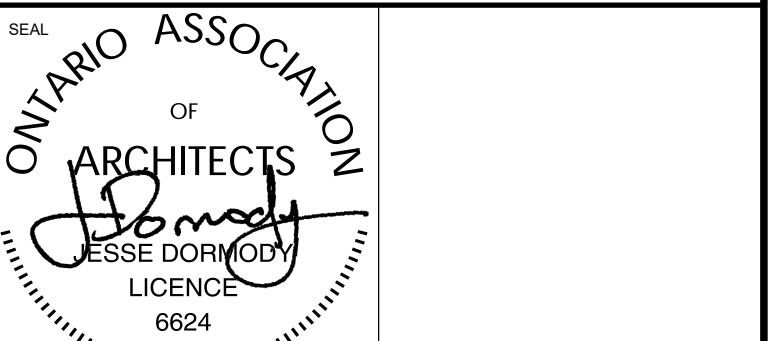
TITLE

ENLARGED PLANS - CENTRAL WING

architects

Baird Sampson Neuert

416.363.8877 bsnarchitects.com

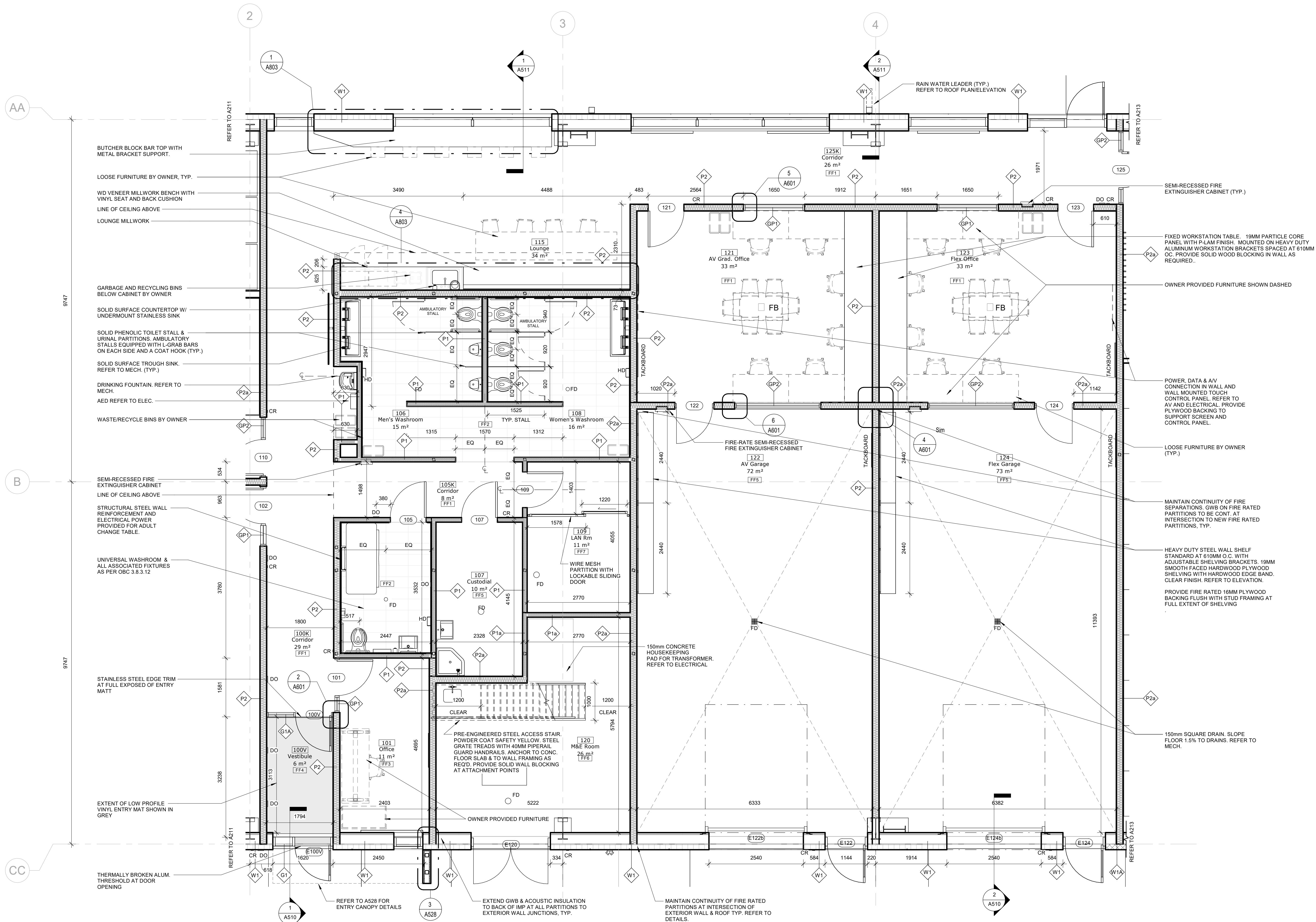


REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS,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

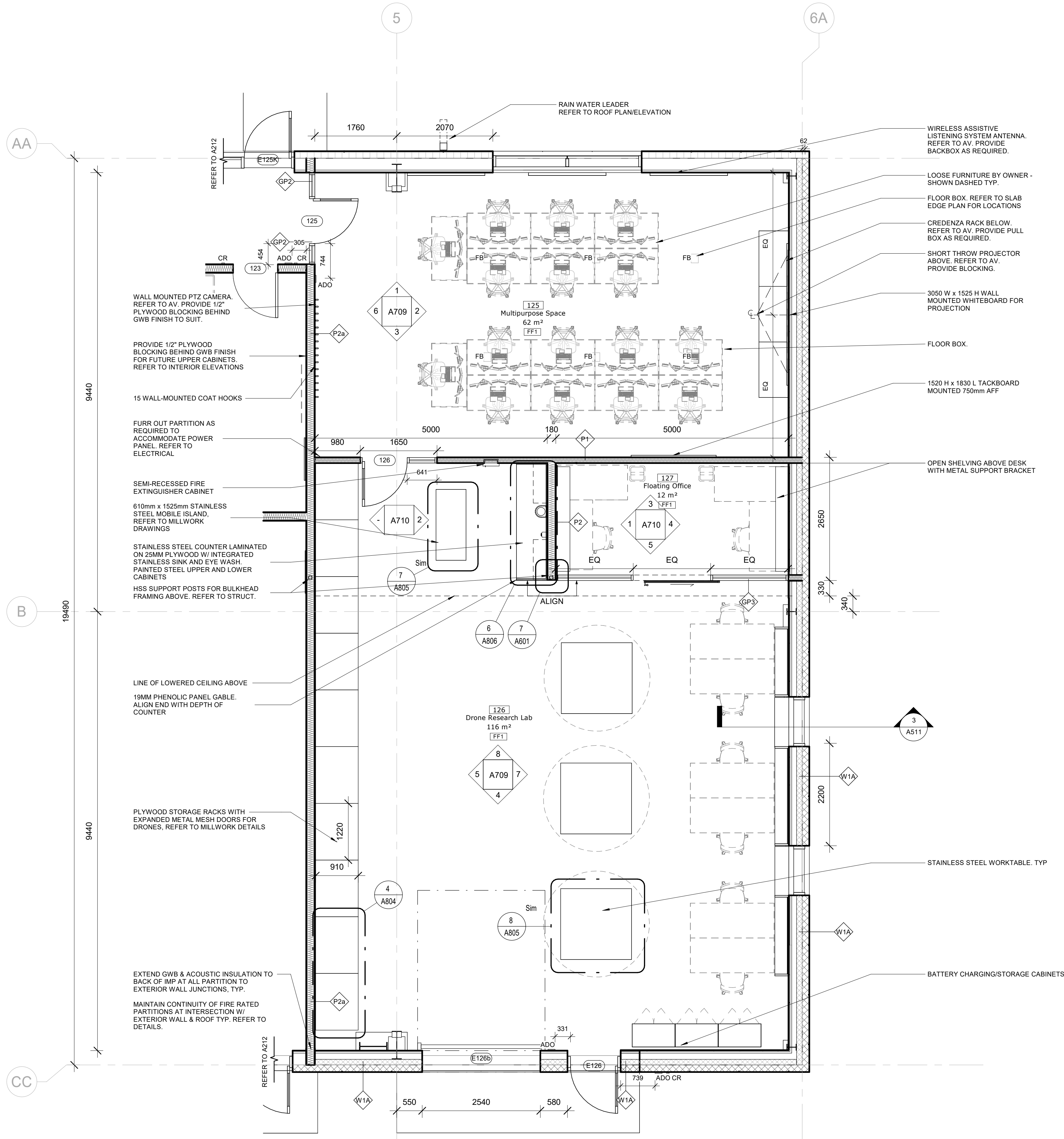
COPYRIGHT © BSN Architects, A Part of WF Group Inc.

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

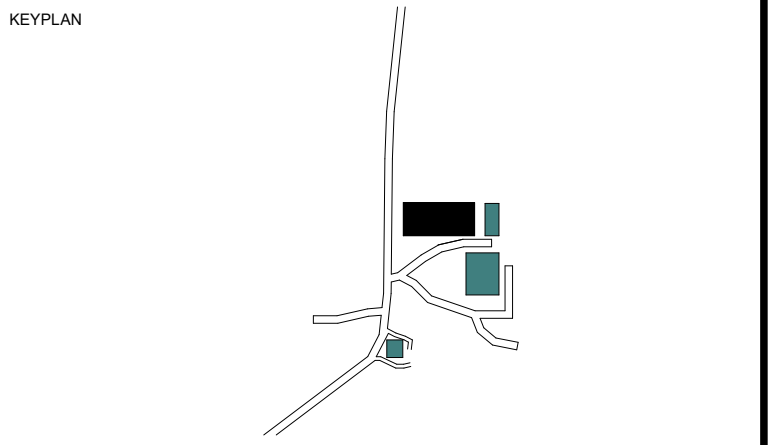
A212



1 ENLARGED PLAN - CENTRAL WING
A212 Scale: 1 : 50



1
A213
ENLARGED PLAN - EAST WING/CROBE
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

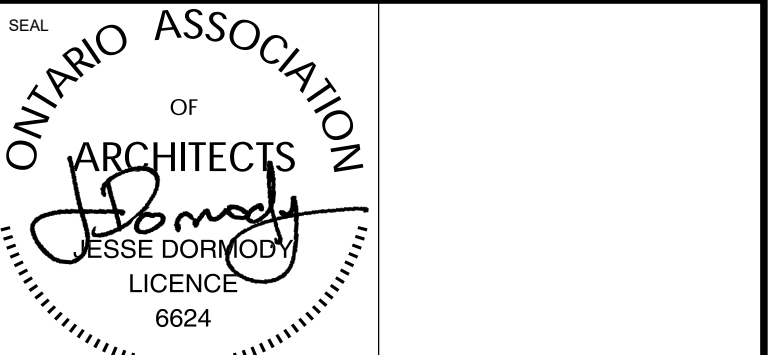
3265 Principal's Road, Mississauga, Ontario

TITLE

ENLARGED PLANS - EAST
WING/CROBE

architects
Baird Sampson Neuert

416.363.8877 bsnarchitects.com

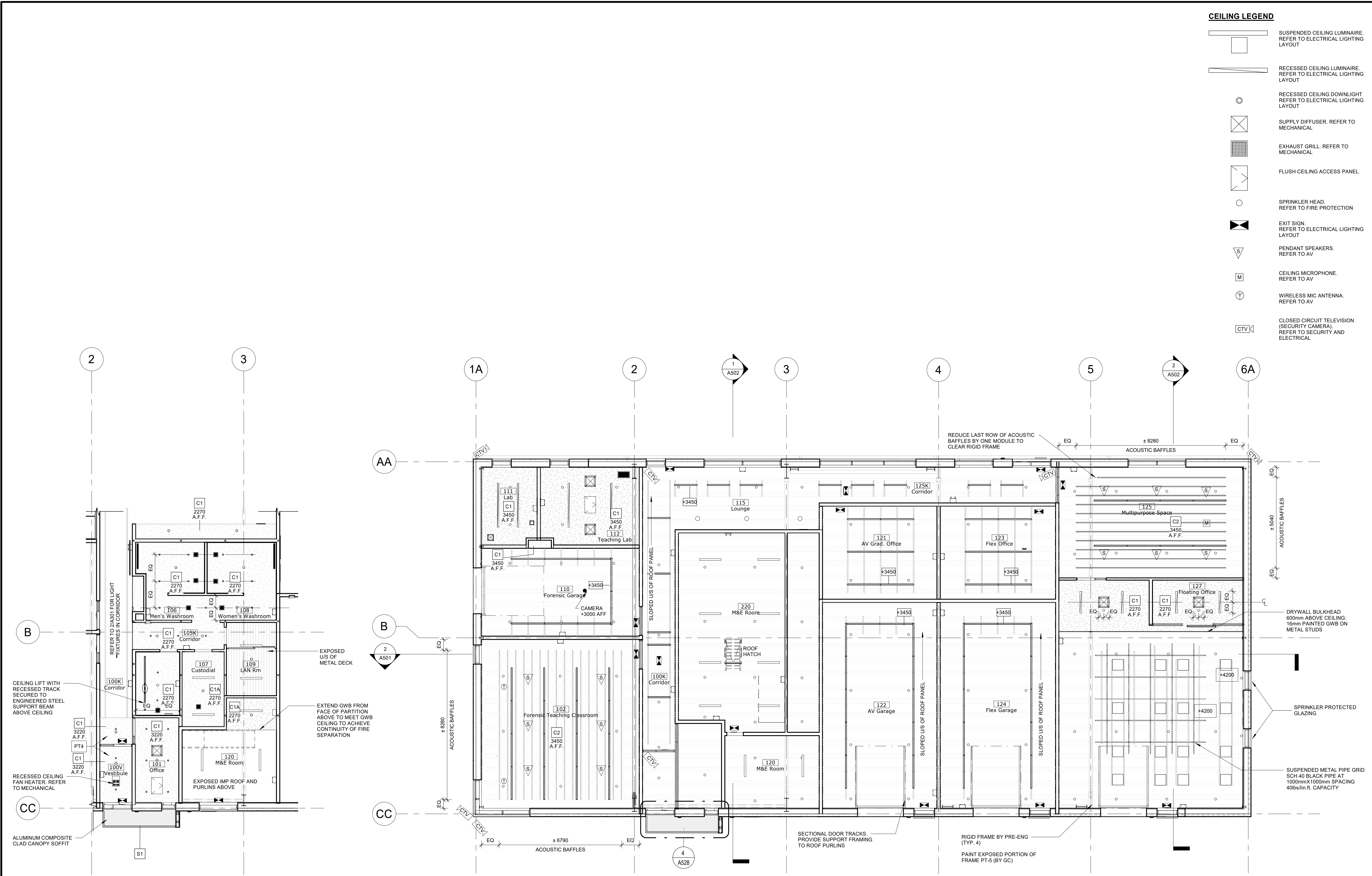


REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS,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

COPYRIGHT © BSN Architects, A Part of WF Group Inc.

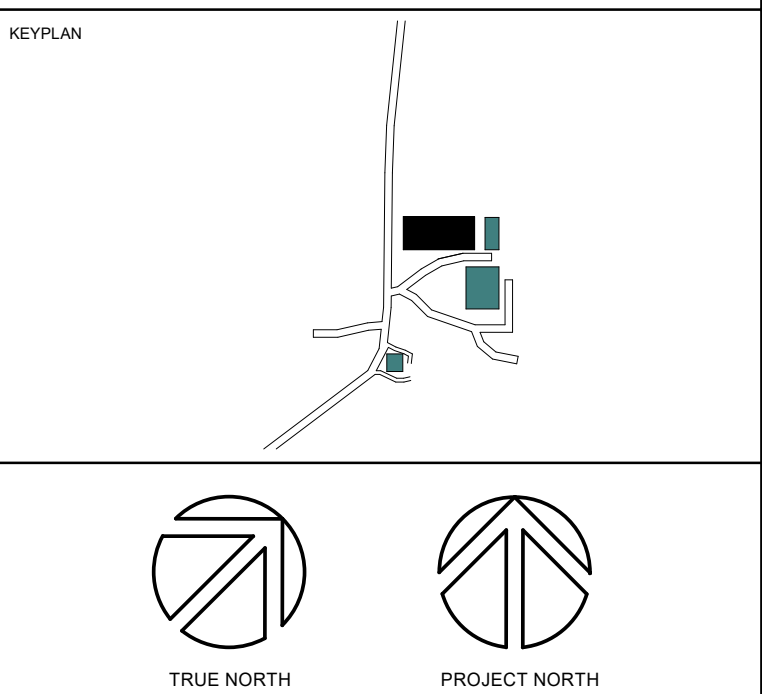
SCALE :	1 : 50	SHEET NO.:
DATE :	09/11/20	
PROJECT NO.:	2301	
DRAWN BY :	Author	
CHECKED BY :	Checker	

A213



CEILING LEGEND

- SUSPENDED CEILING LUMINAIRE. REFER TO ELECTRICAL LIGHTING LAYOUT
- RECESSED CEILING LUMINAIRE. REFER TO ELECTRICAL LIGHTING LAYOUT
- RECESSED CEILING DOWNLIGHT. REFER TO ELECTRICAL LIGHTING LAYOUT
- SUPPLY DIFFUSER. REFER TO MECHANICAL
- EXHAUST GRILL. REFER TO MECHANICAL
- FLUSH CEILING ACCESS PANEL
- SPRINKLER HEAD. REFER TO FIRE PROTECTION
- EXIT SIGN. REFER TO ELECTRICAL LIGHTING LAYOUT
- PENDANT SPEAKERS. REFER TO AV
- CEILING MICROPHONE. REFER TO AV
- WIRELESS MIC ANTENNA. REFER TO AV
- CLOSED CIRCUIT TELEVISION (SECURITY CAMERA). REFER TO SECURITY AND ELECTRICAL



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

CLIENT
University of Toronto Mississauga

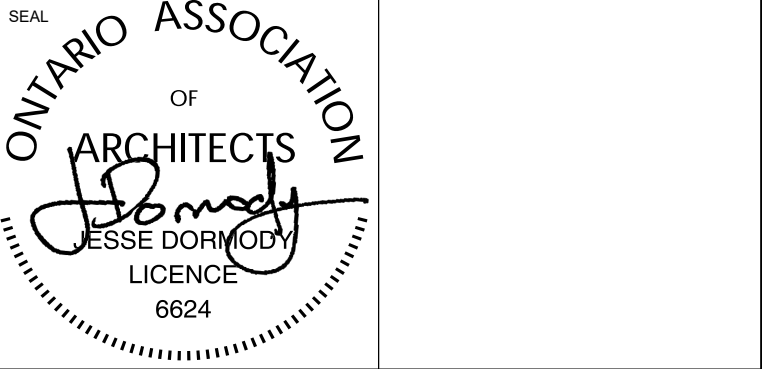
PROJECT
Pre-Engineered Building

3265 Principal's Road, Mississauga, Ontario

TITLE
REFLECTED CEILING PLAN

architects
Baird Sampson Neuert

416.363.8877 bsnarchitects.com

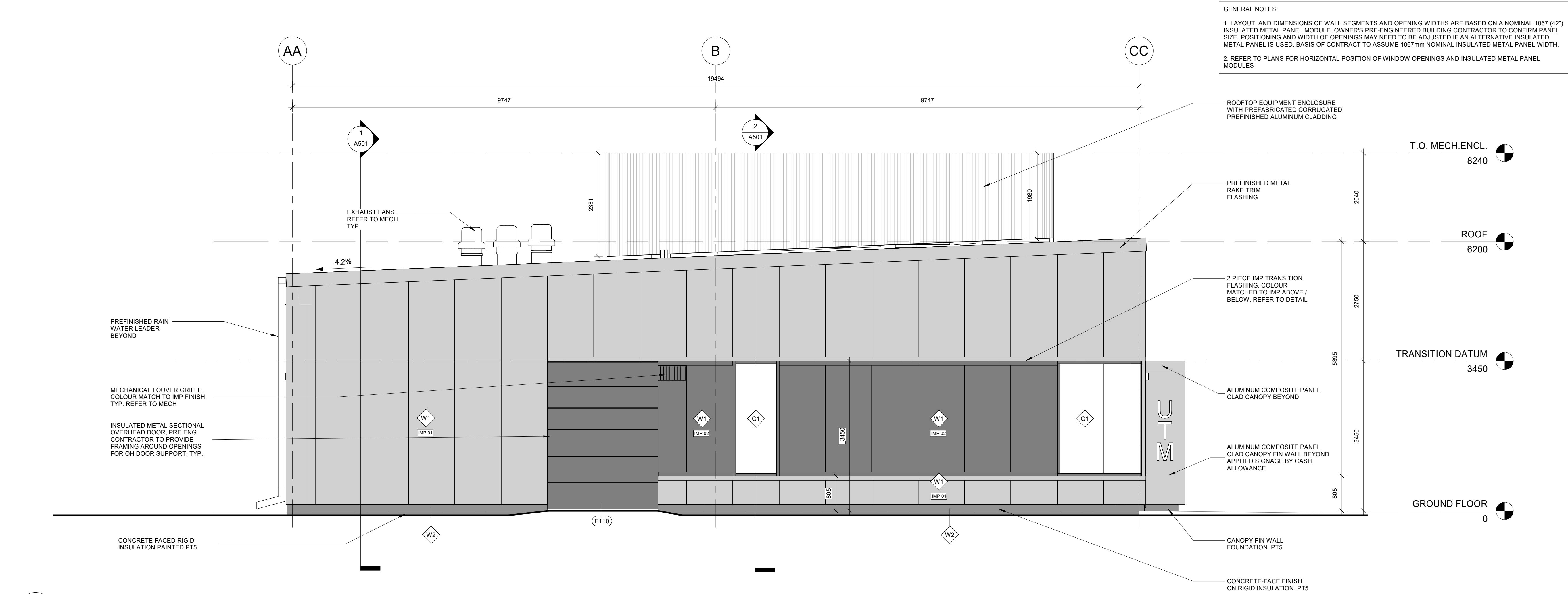


REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS,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

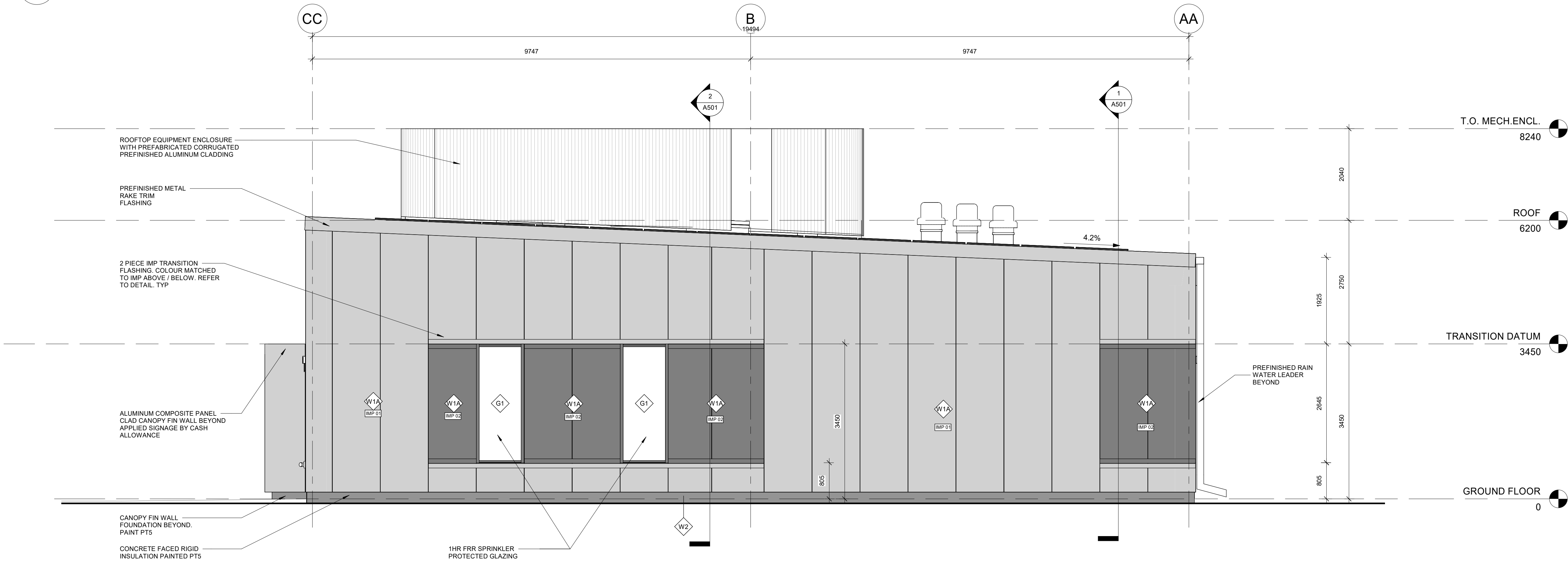
COPYRIGHT © BSN Architects, A Part of WF Group Inc.

SCALE:	As Indicated	SHEET NO.:
DATE:	05/19/20	
PROJECT NO.:	2301	
DRAWN BY:	Author	
CHECKED BY:	Checker	

A301



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

architects
Baird Sampson Neuert

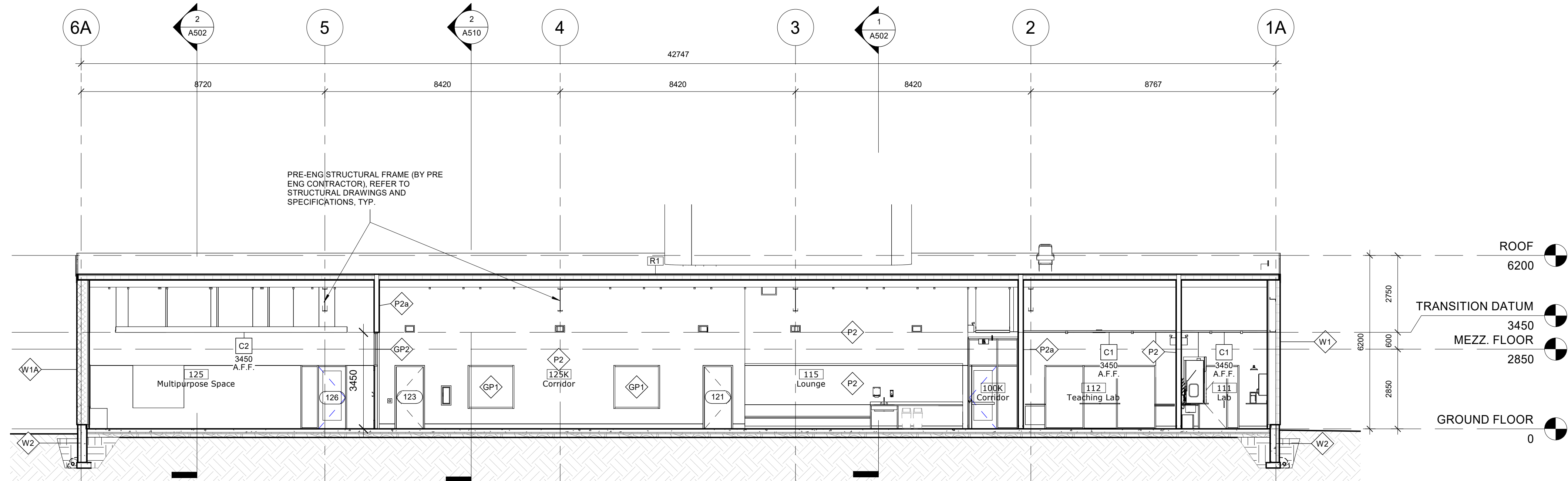
416.363.8877 bsnarchitects.com



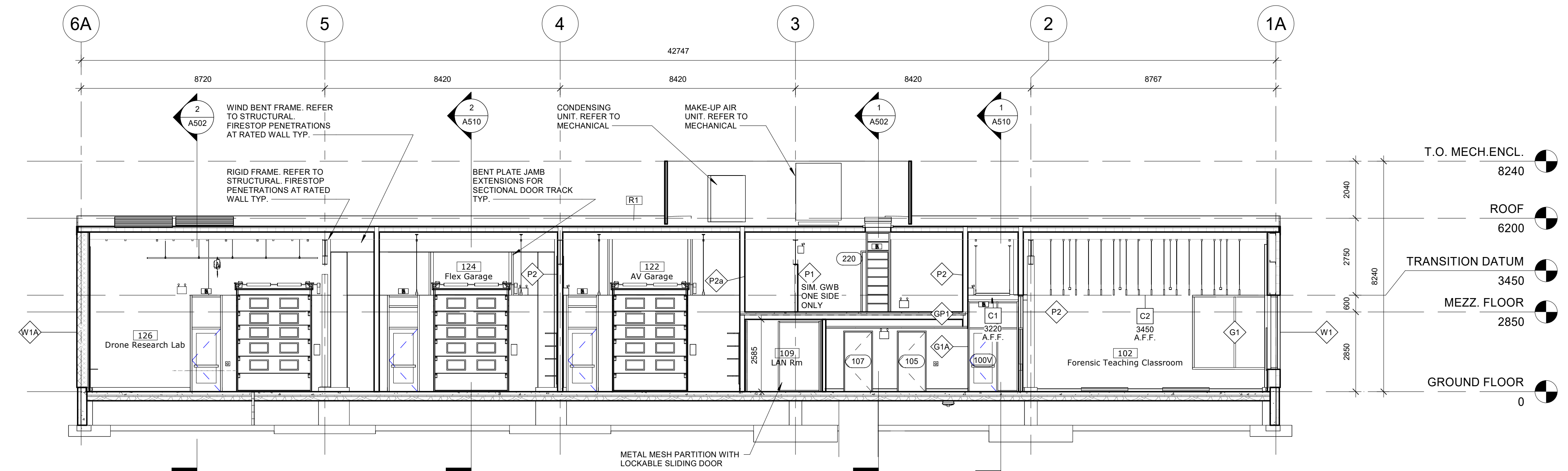
REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS,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

COPYRIGHT © BSN Architects, A Part of WF Group Inc.

SCALE:	1 : 50	SHEET NO.:	A401
DATE:	05/19/20		
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
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

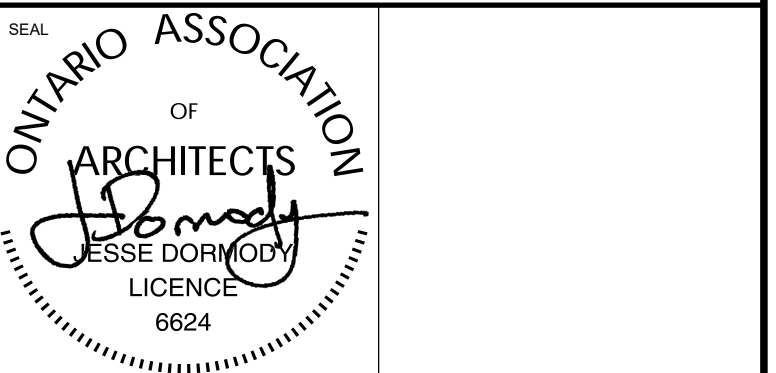
TITLE

BUILDING SECTIONS

architects

Baird Sampson Neurt

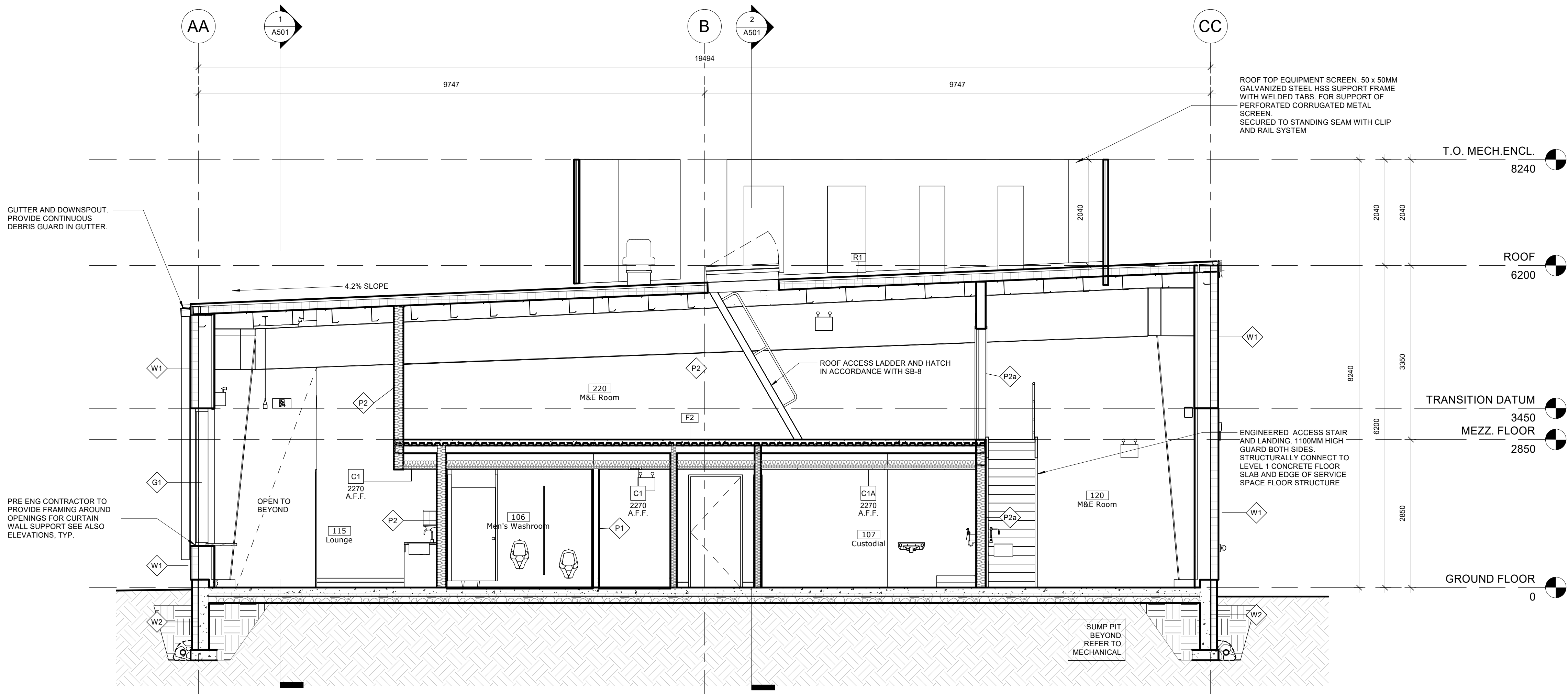
416.363.8877 bsnarchitects.com



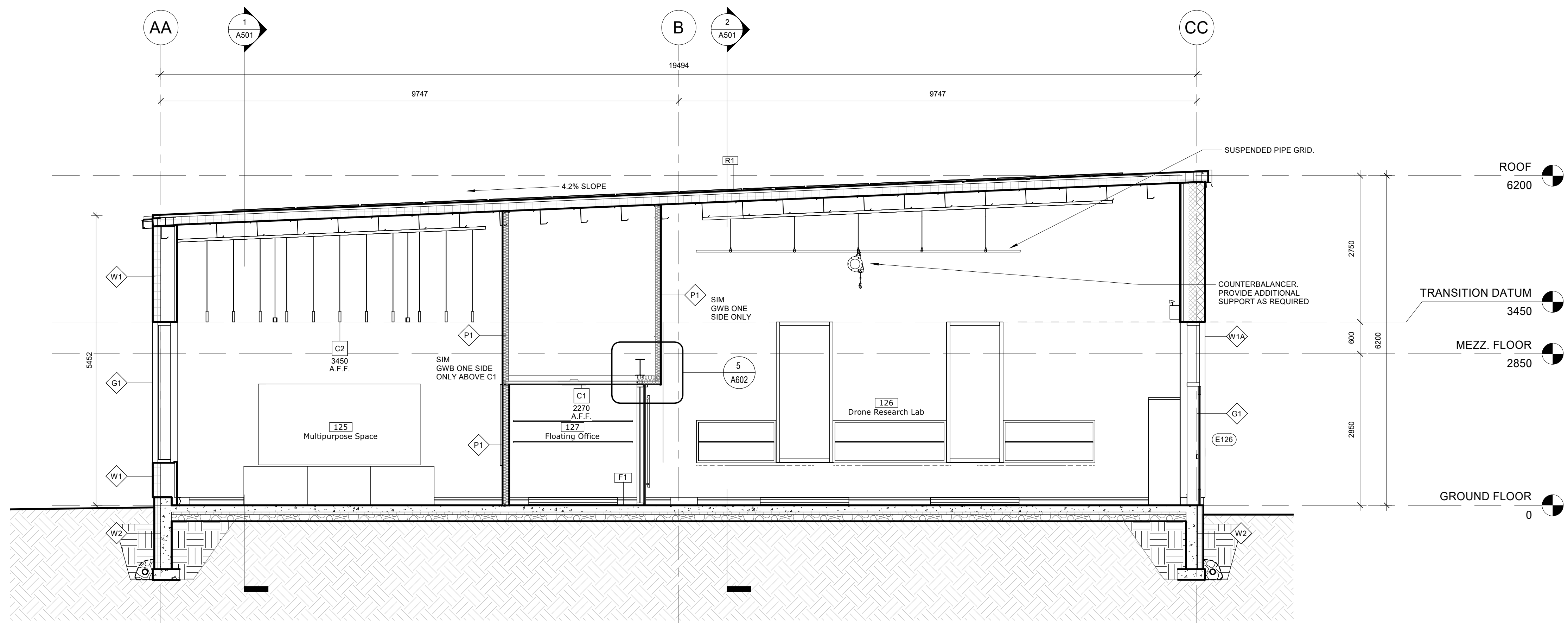
REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS,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

COPYRIGHT © BSN Architects, A Part of WF Group Inc.

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
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

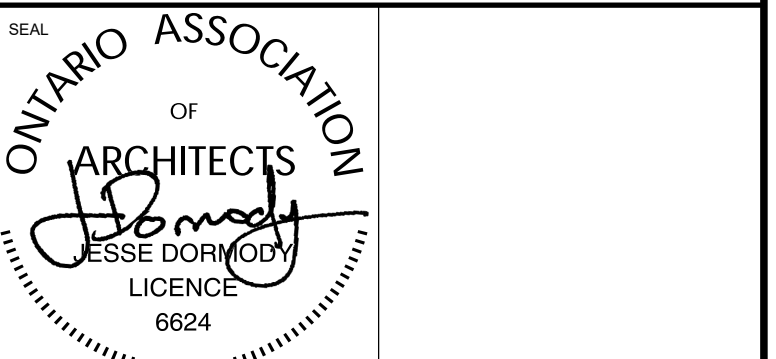
TITLE

BUILDING SECTIONS

architects

Baird Sampson Neuert

416.363.8877 bsnarchitects.com



REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, 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, A PART OF WF GROUP. - DO NOT SCALE THIS DRAWING -

COPYRIGHT © BSN Architects, A Part of WF Group Inc.

SCALE: 1 : 50 SHEET NO:

DATE: 05/26/20

PROJECT NO: 2301

DRAWN BY: Author

CHECKED BY: Checker

A502

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
4	Issued for Permit	2024-11-08
5	Issued for Tender	2024-11-25

University of Toronto Mississauga

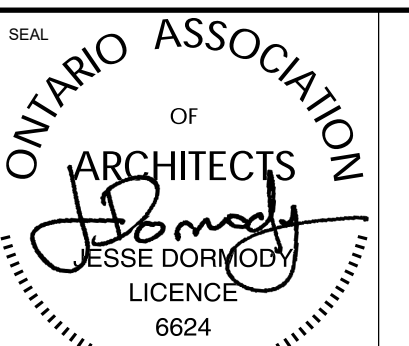
Pre-Engineered Building

3265 Principal's Road, Mississauga, Ontario

WALL SECTIONS

architects
Baird Sampson Neuert

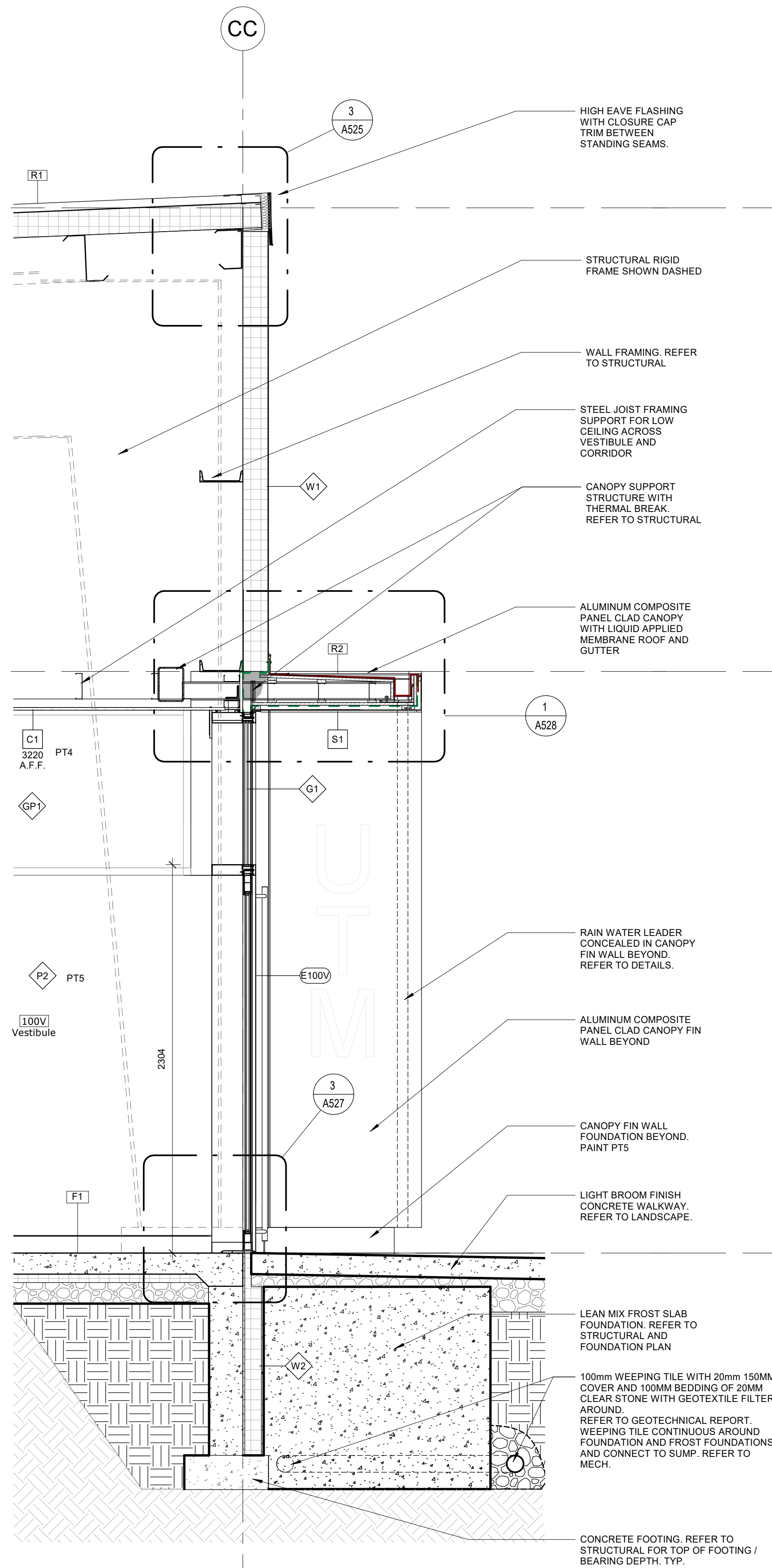
416.363.8877 bsnarchitects.com



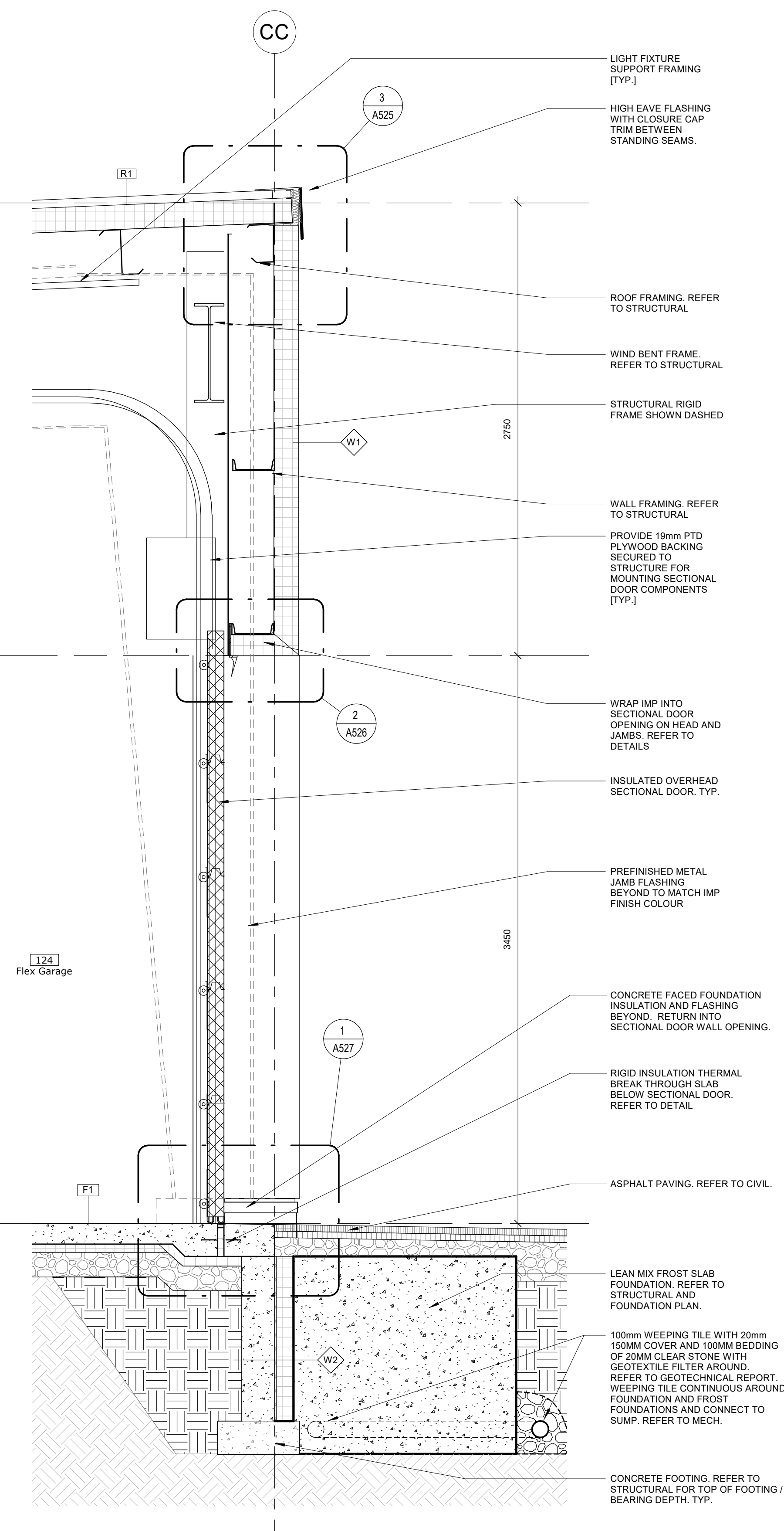
REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS,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

COPYRIGHT © BSN Architects, A Part of WF Group Inc.

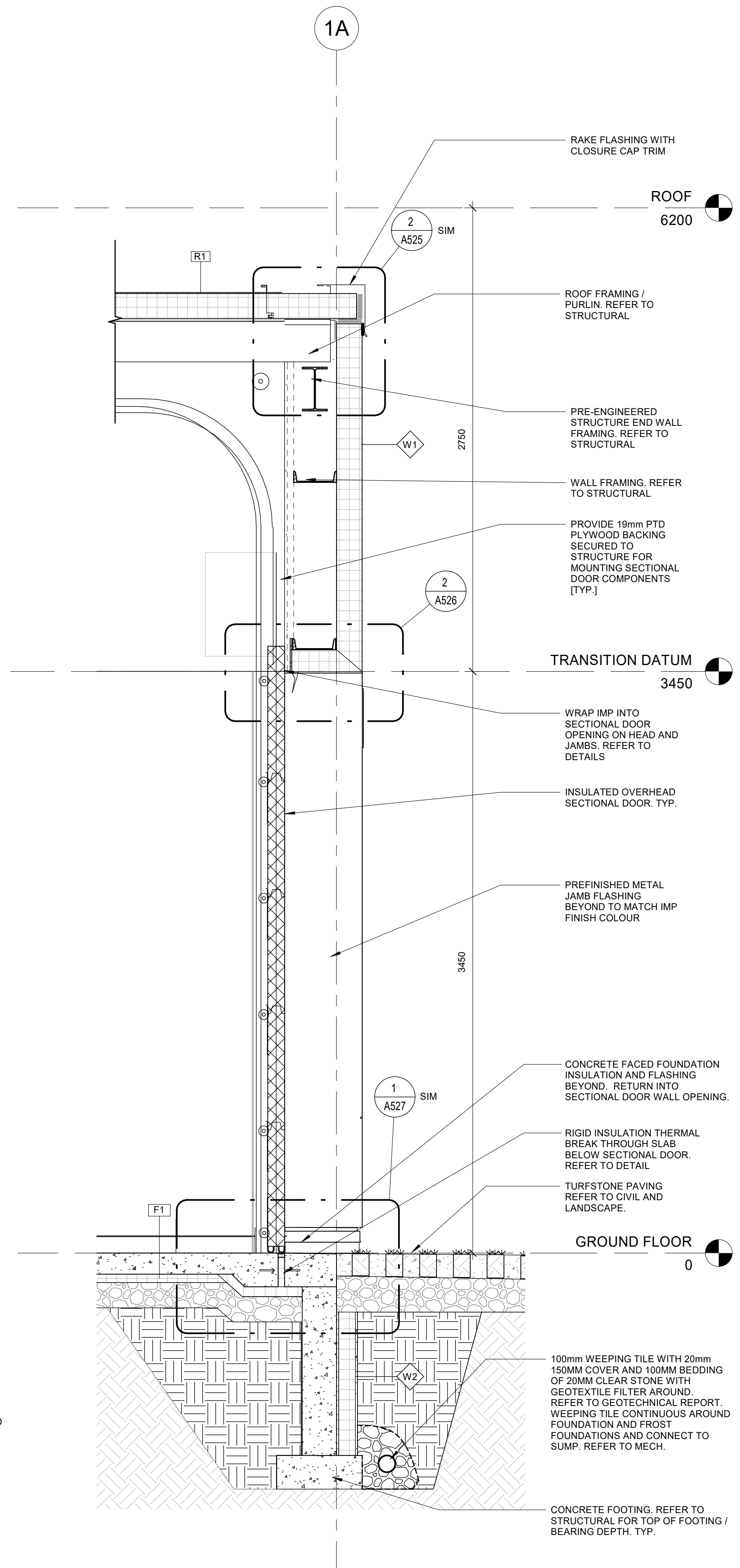
SCALE: 1 : 20	SHEET NO: A510
DATE: 05/26/20	
PROJECT NO: 2301	
DRAWN BY: Author	
CHECKED BY: Checker	



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
4	Issued for Permit	2024-11-08
5	Issued for Tender	2024-11-25

CLIENT

University of Toronto Mississauga

PROJECT

Pre-Engineered Building

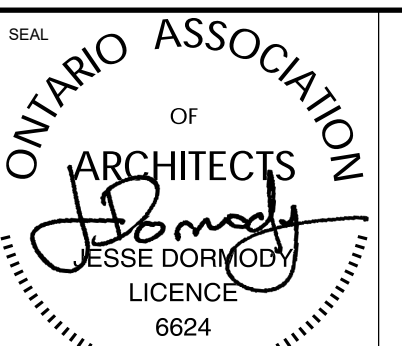
3265 Principal's Road, Mississauga, Ontario

TITLE

WALL SECTIONS

architects
Baird Sampson Neuert

416.363.8877 bsnarchitects.com

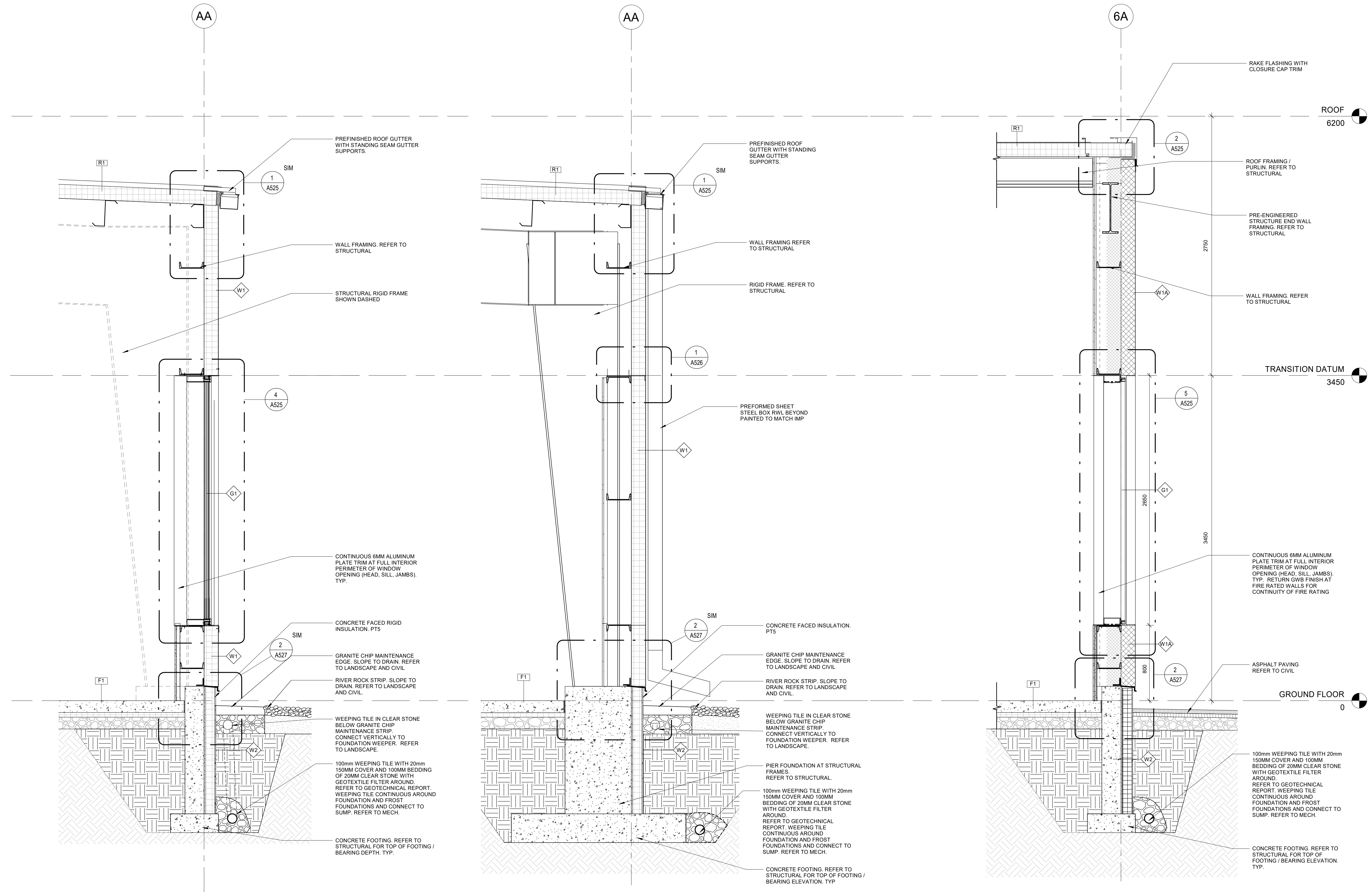


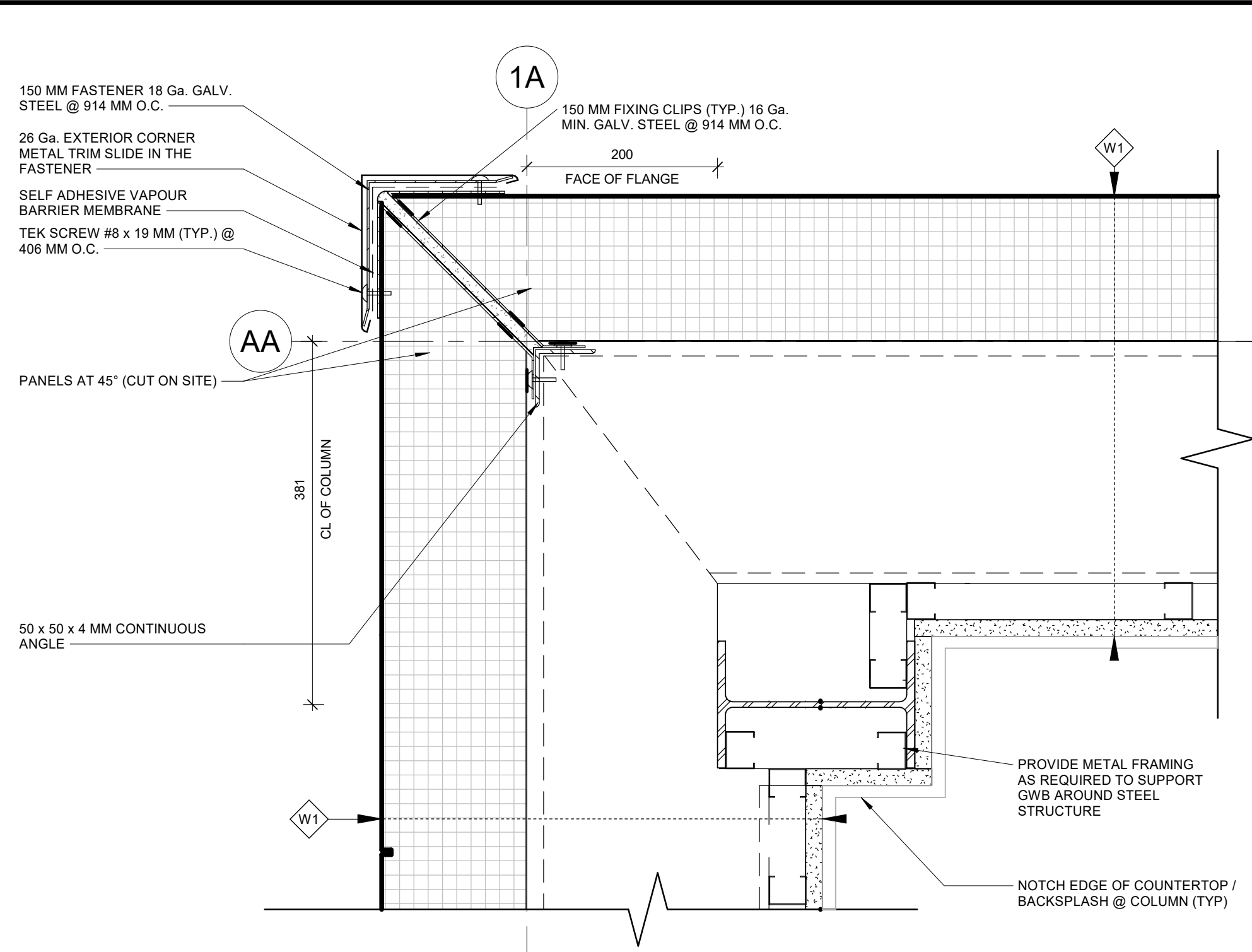
REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS,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

COPYRIGHT © BSN Architects, A Part of WF Group Inc.

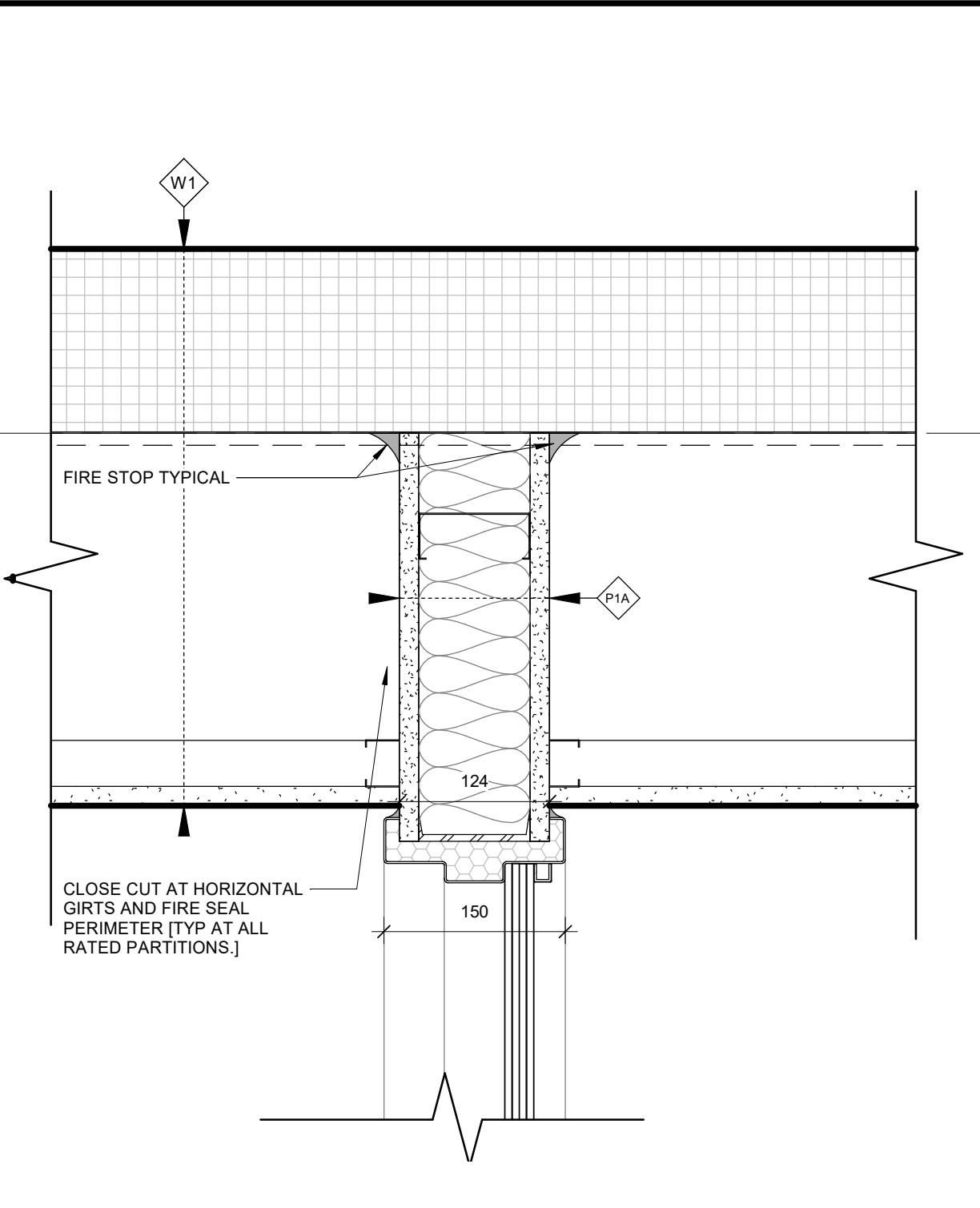
SCALE:	1 : 20	SHEET NO.:
DATE:	05/26/20	
PROJECT NO.:	2301	
DRAWN BY:	Author	
CHECKED BY:	Checker	

A511

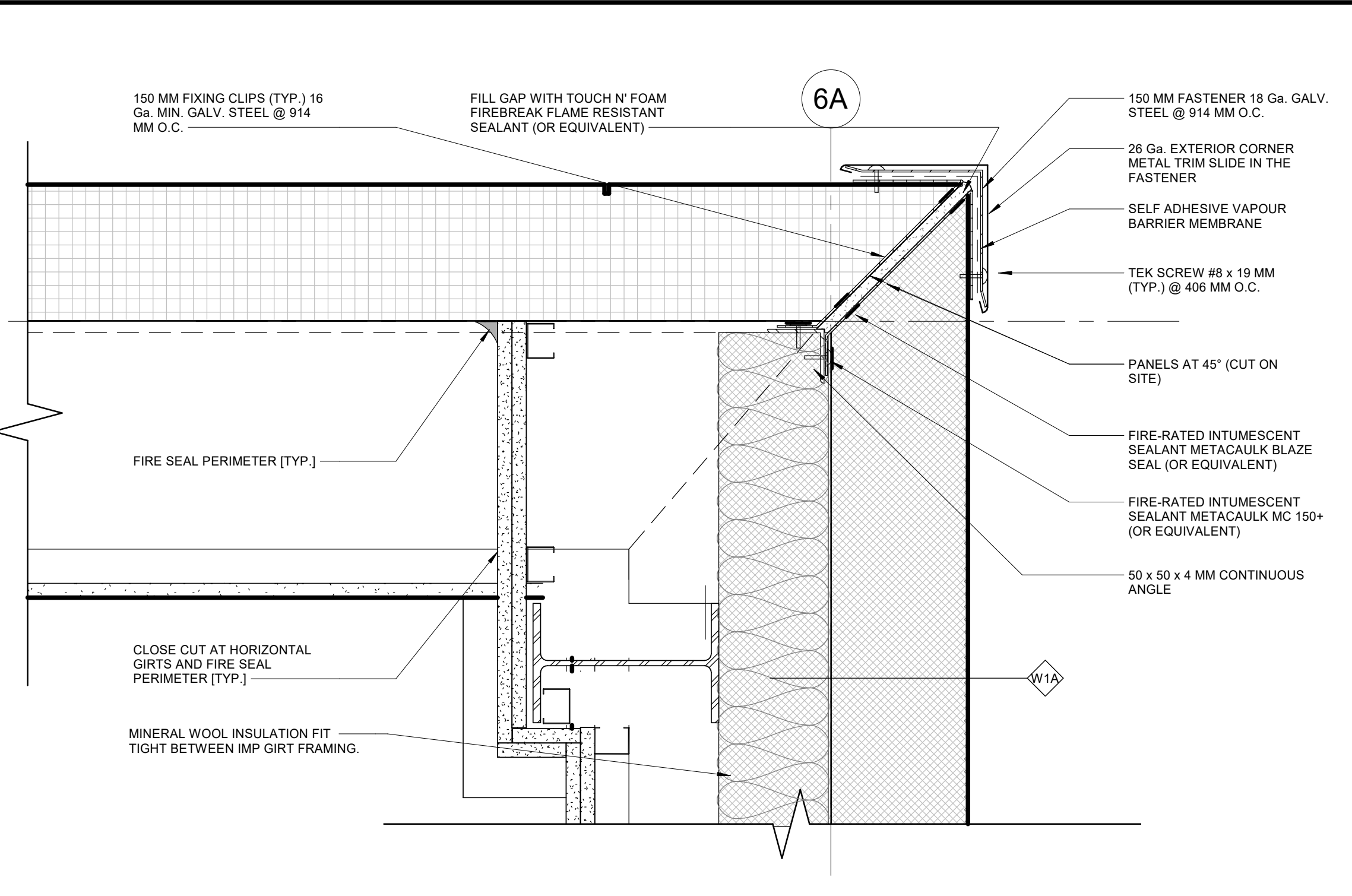




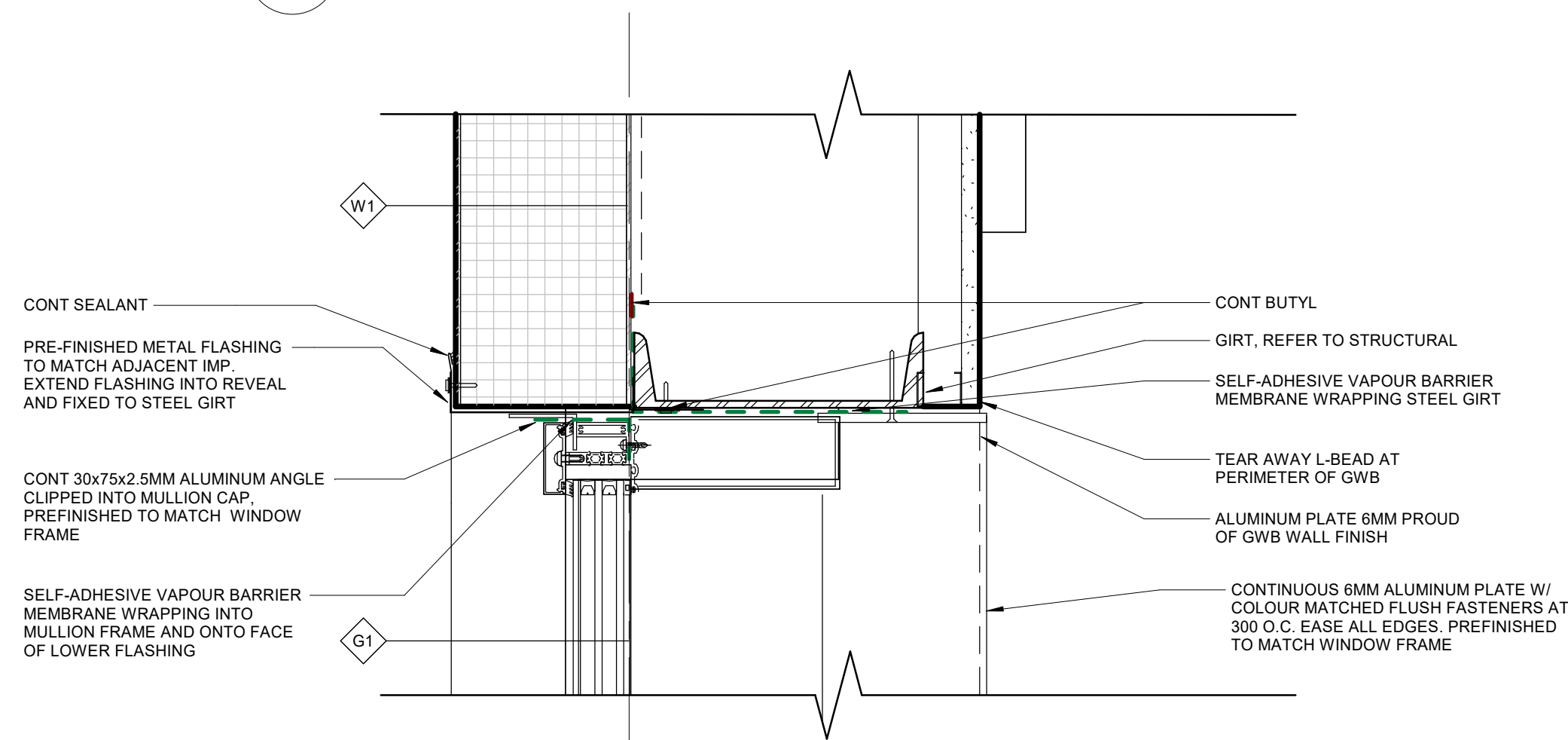
1 PLAN DETAIL AT NORTHWEST CORNER
A520 Scale: 1 : 5



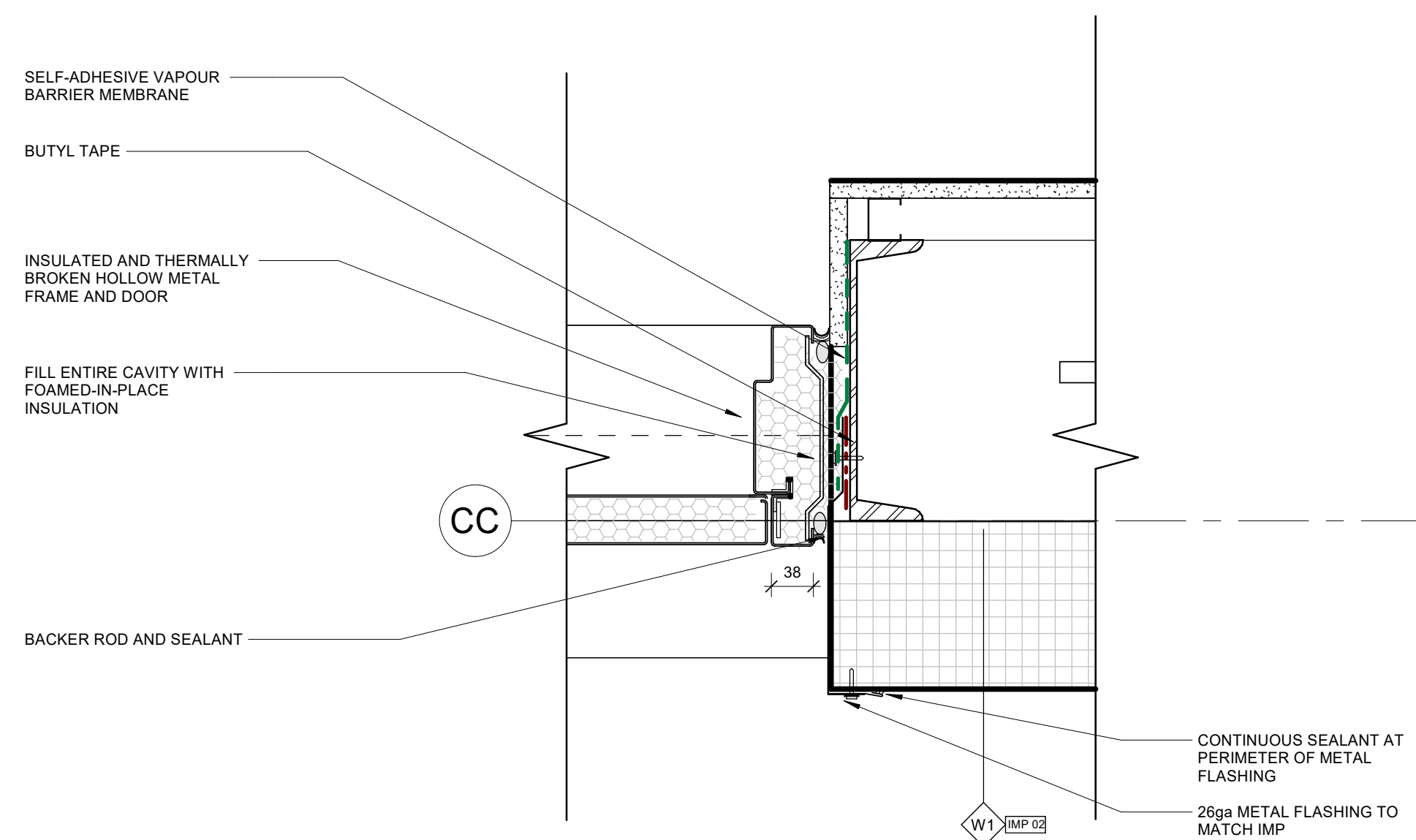
2 PLAN DETAIL AT FIRE RATED GLAZING PARTITION
A520 Scale: 1 : 5



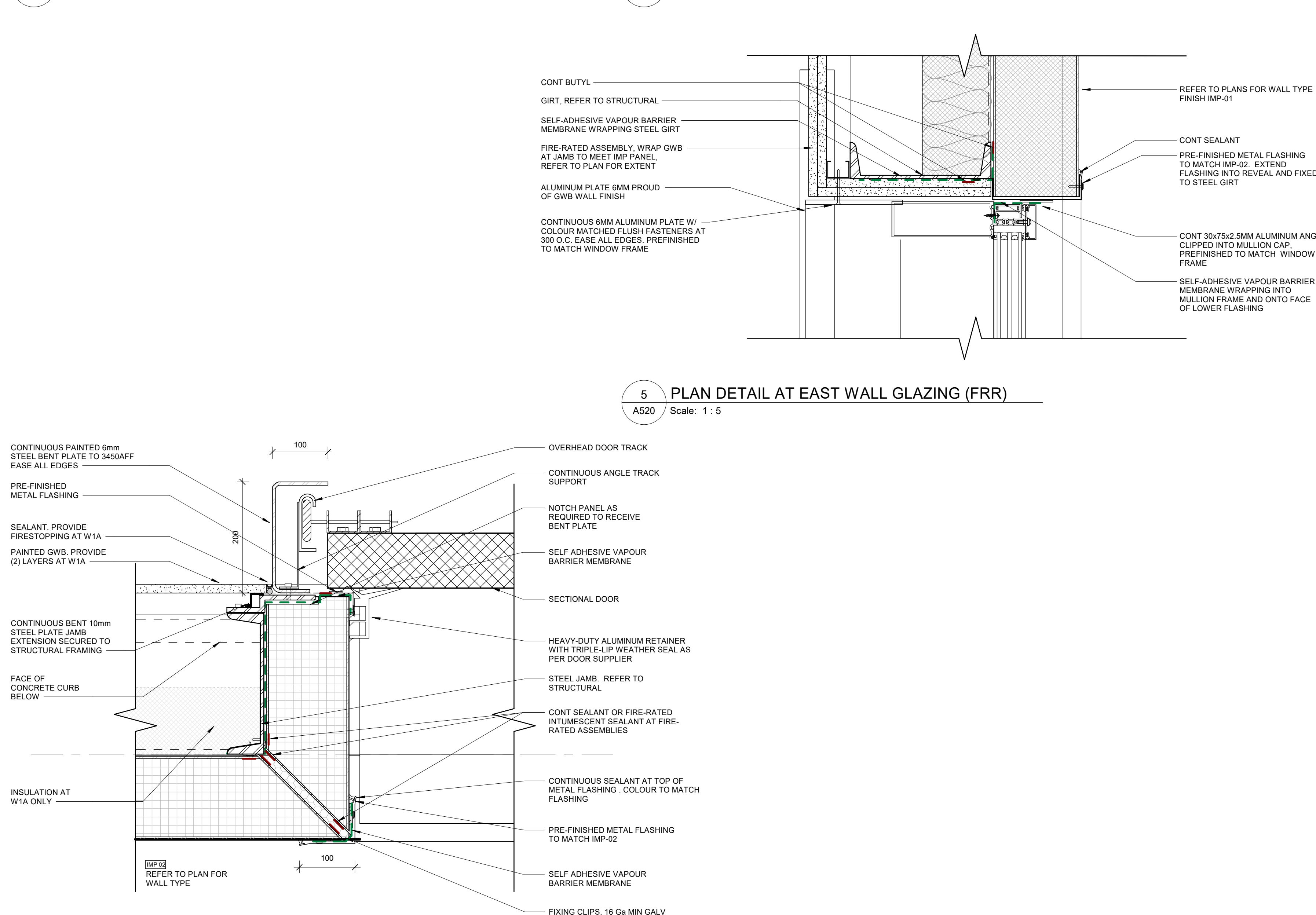
3 PLAN DETAIL AT NORTHEAST CORNER
A520 Scale: 1 : 5



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



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

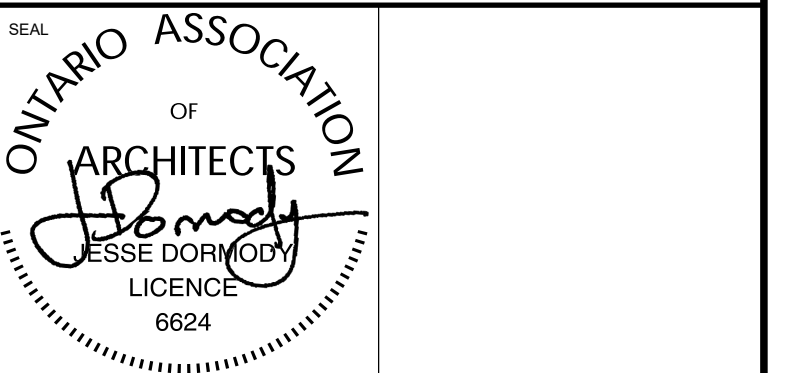
TITLE

PLAN DETAILS - ENVELOPE

architects

Baird Sampson Neuert

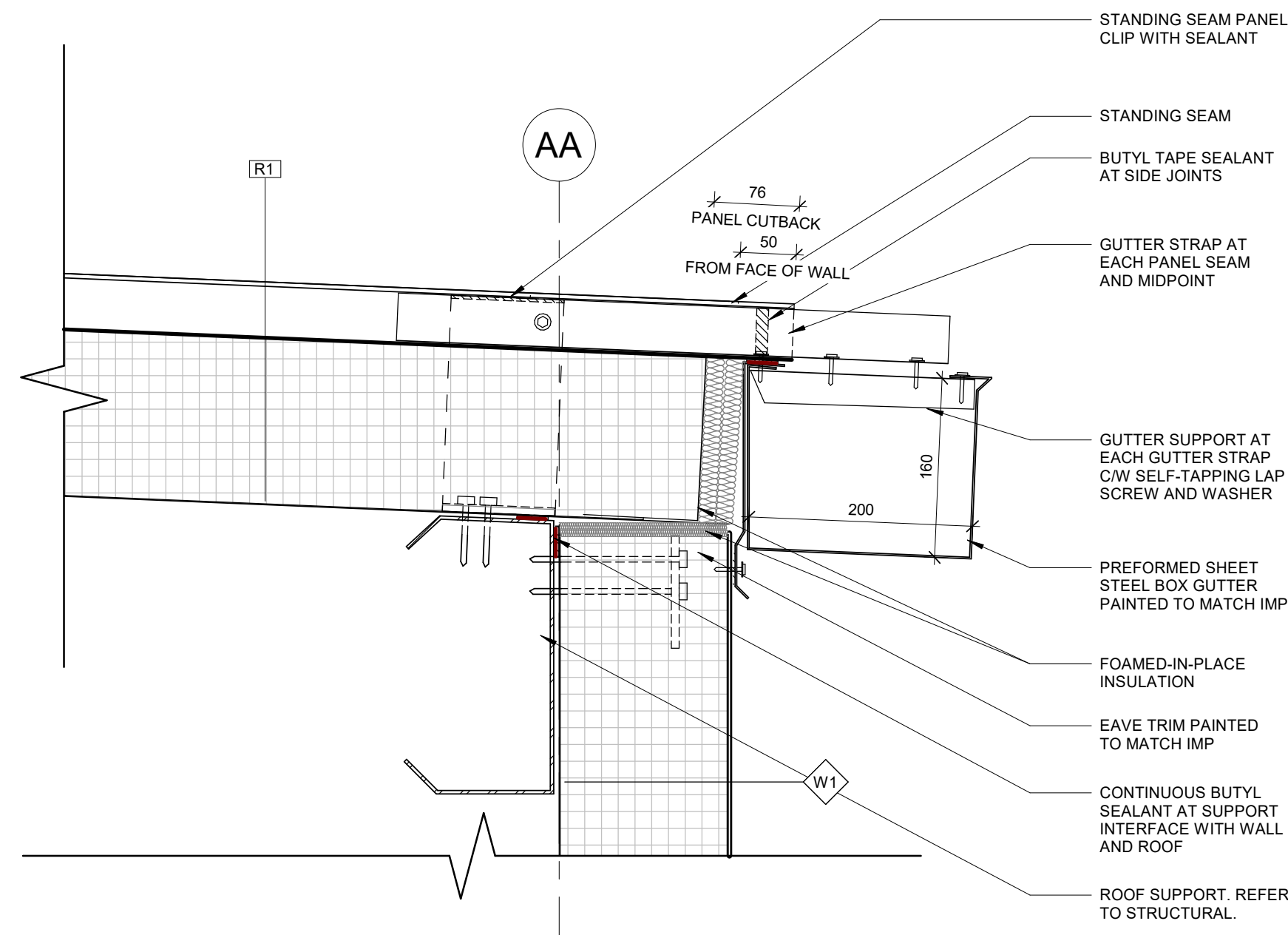
416.363.8877 bsnarchitects.com



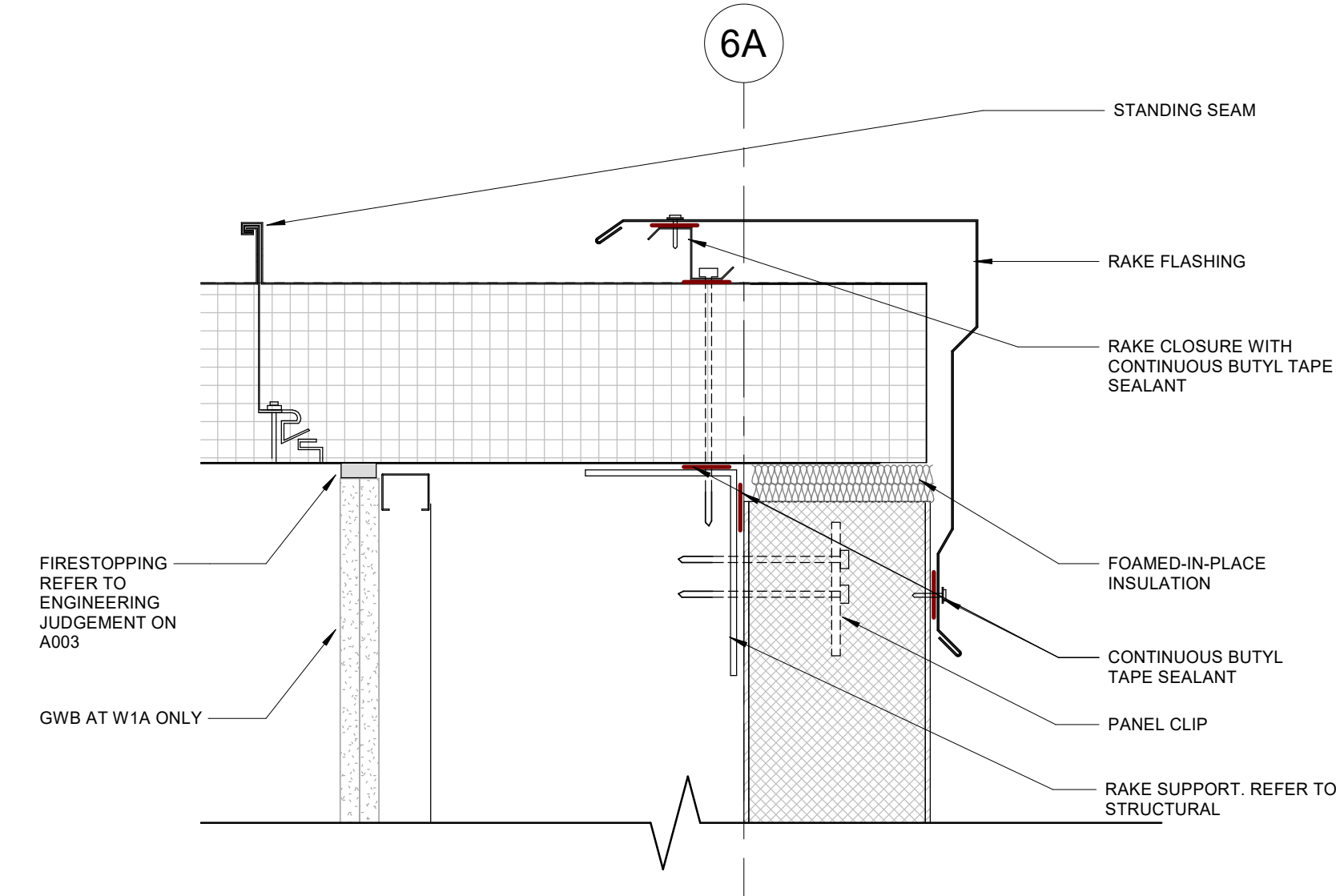
REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS. A PART OF WF GROUP. IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS.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

COPYRIGHT © BSN Architects. A Part of WF Group Inc.

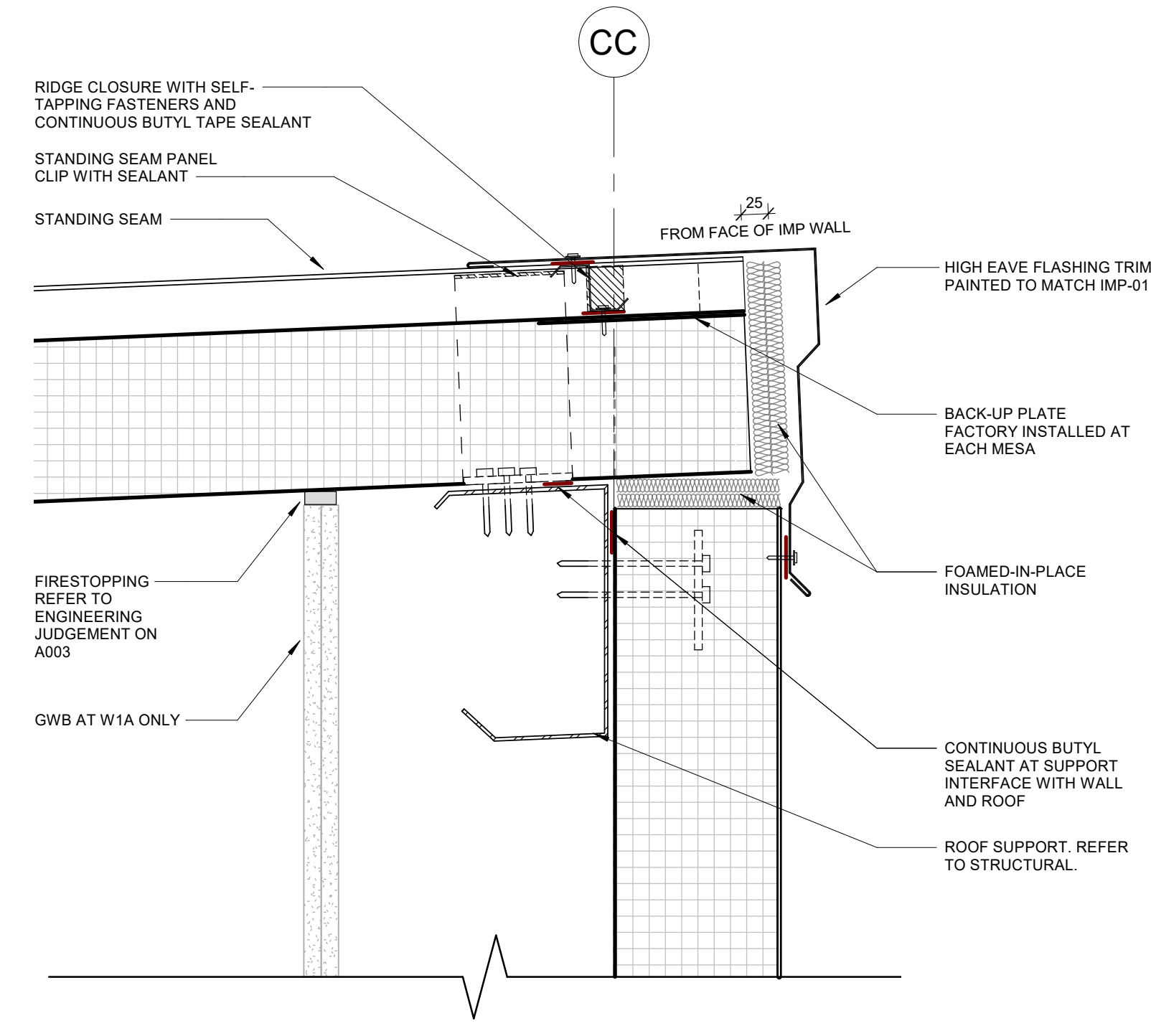
SCALE: 1 : 5	SHEET NO: A520
DATE: 05/26/20	
PROJECT NO: 2301	
DRAWN BY: Author	
CHECKED BY: Checker	



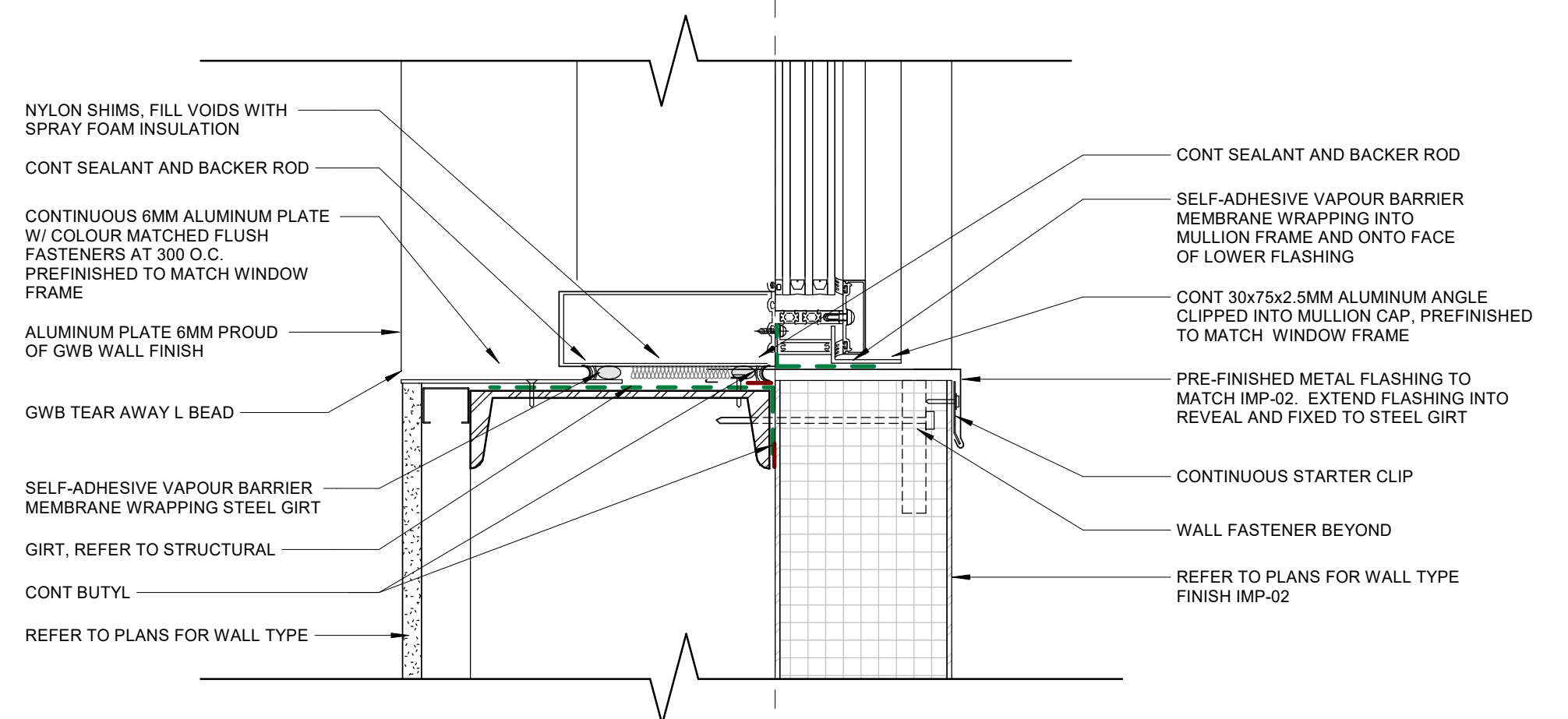
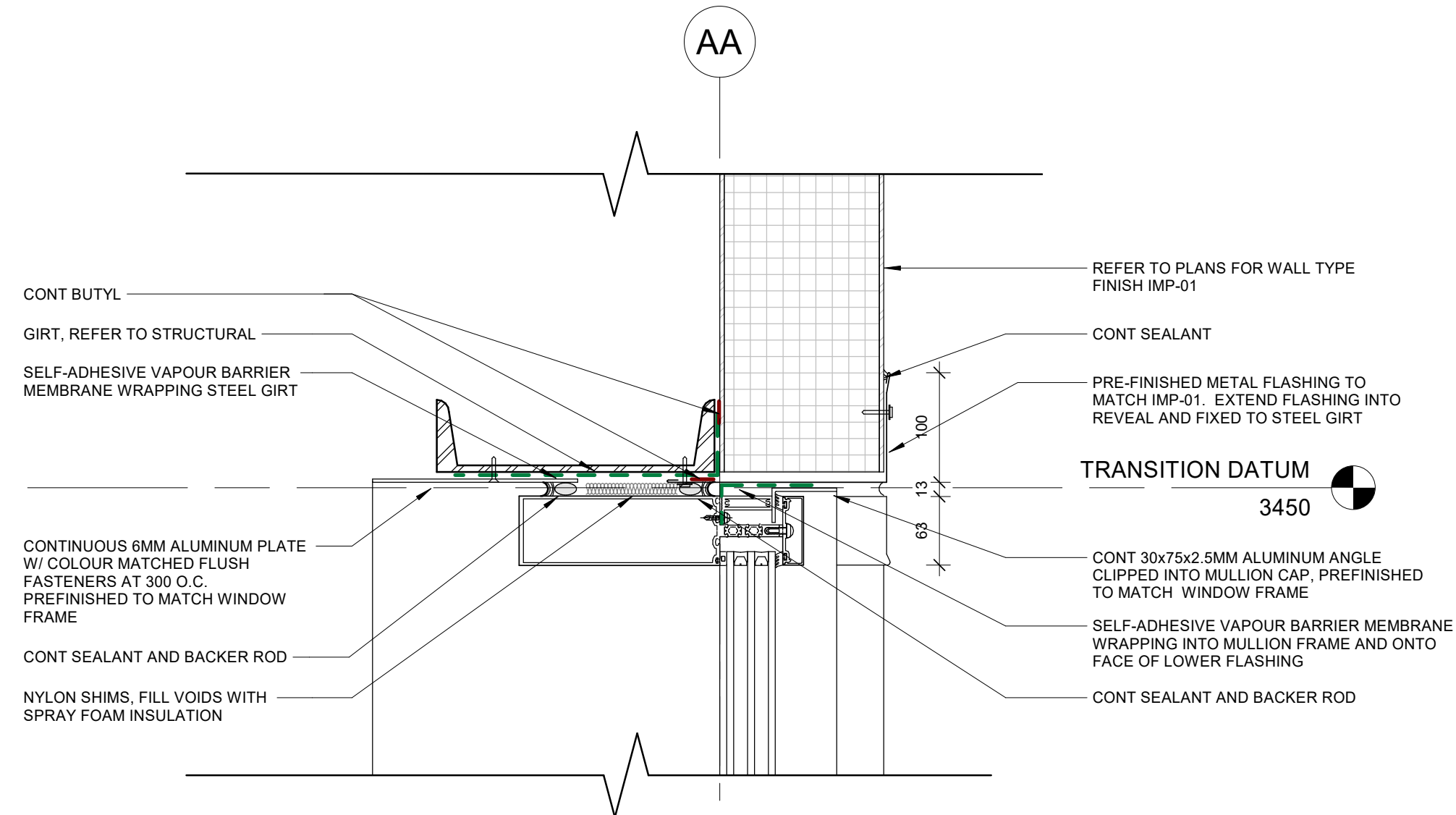
1 SECTION DETAIL AT LOW EAVE
A525 Scale: 1 : 5



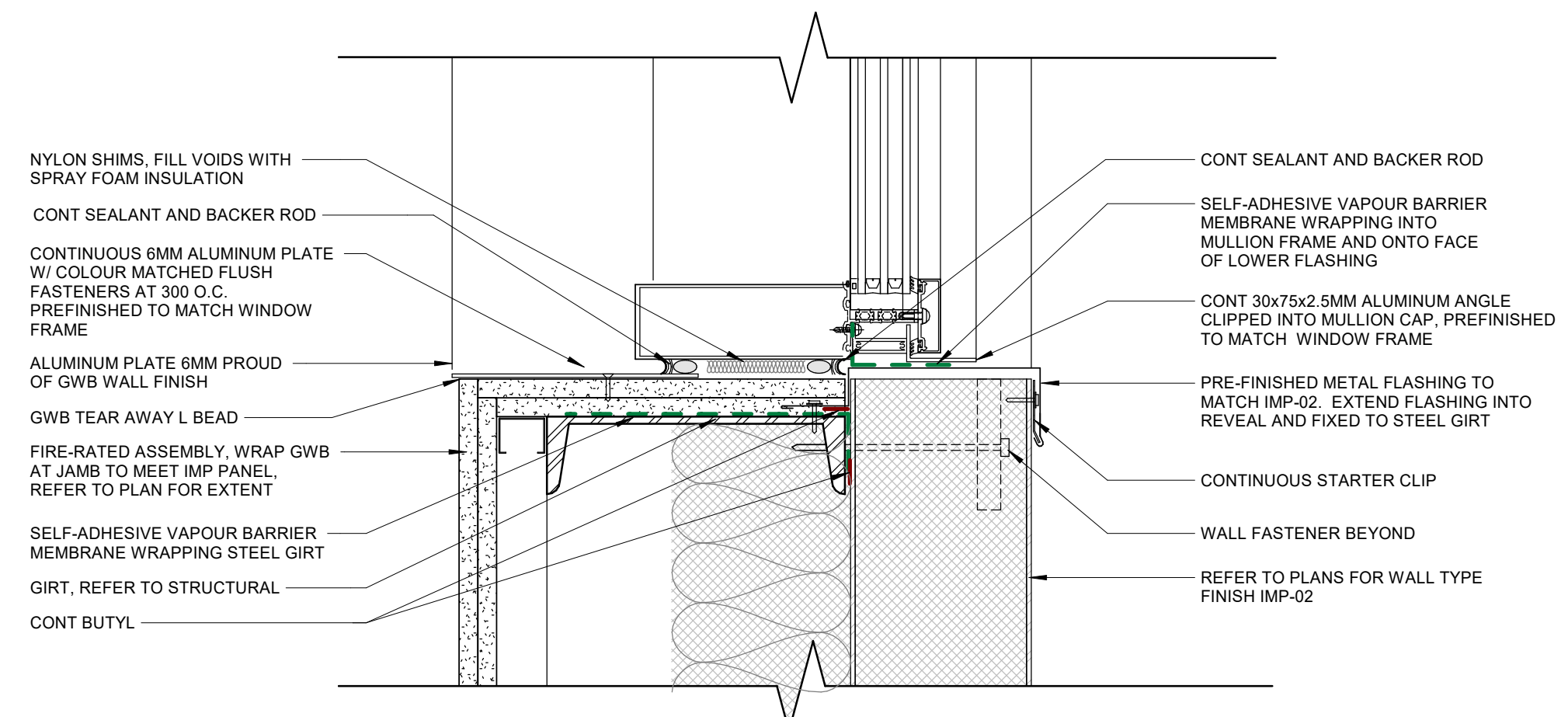
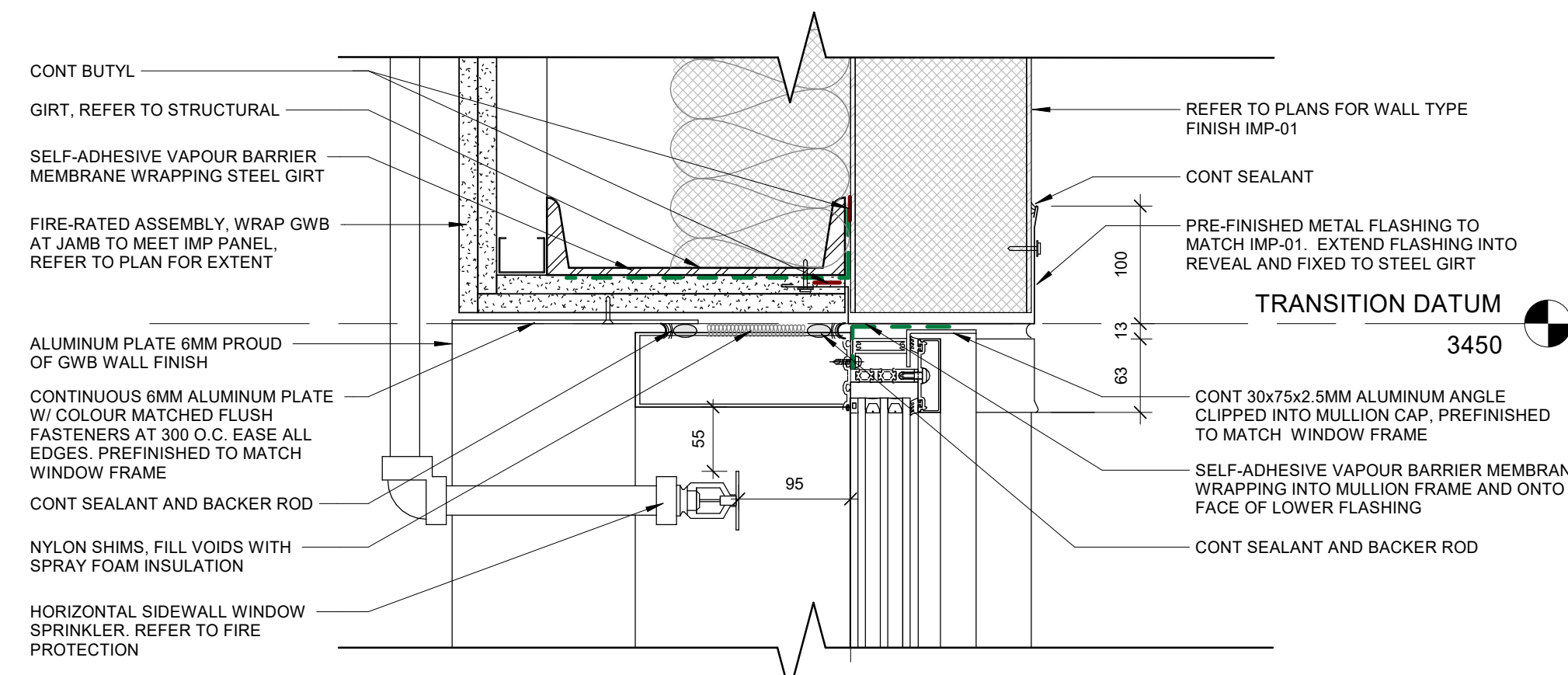
2 SECTION DETAIL AT RAKE WALL
A525 Scale: 1 : 5



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
1	Issued for Tender	2024-11-25

CLIENT

University of Toronto Mississauga

PROJECT

Pre-Engineered Building

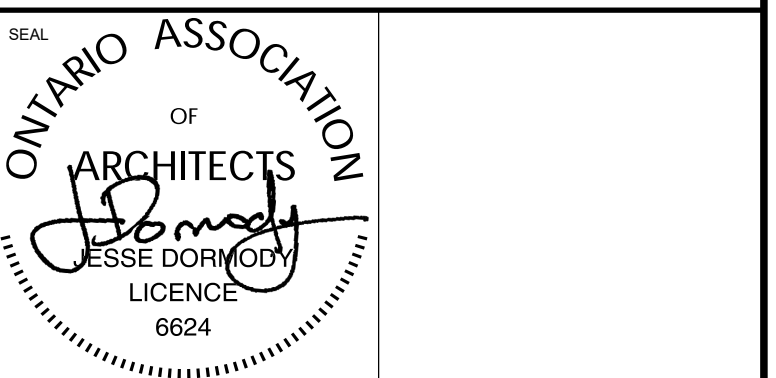
3265 Principal's Road, Mississauga, Ontario

TITLE

SECTION DETAILS - ENVELOPE

architects
Baird Sampson Neuert

416.363.8877 bsnarchitects.com



REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, 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, A PART OF WF GROUP. DO NOT SCALE THIS DRAWING.

COPYRIGHT © BSN Architects, A Part of WF Group Inc.

SCALE: 1 : 5	SHEET NO: A525
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

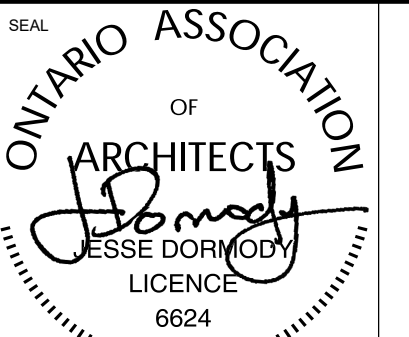
3265 Principal's Road, Mississauga, Ontario

TITLE

SECTION DETAILS - ENVELOPE

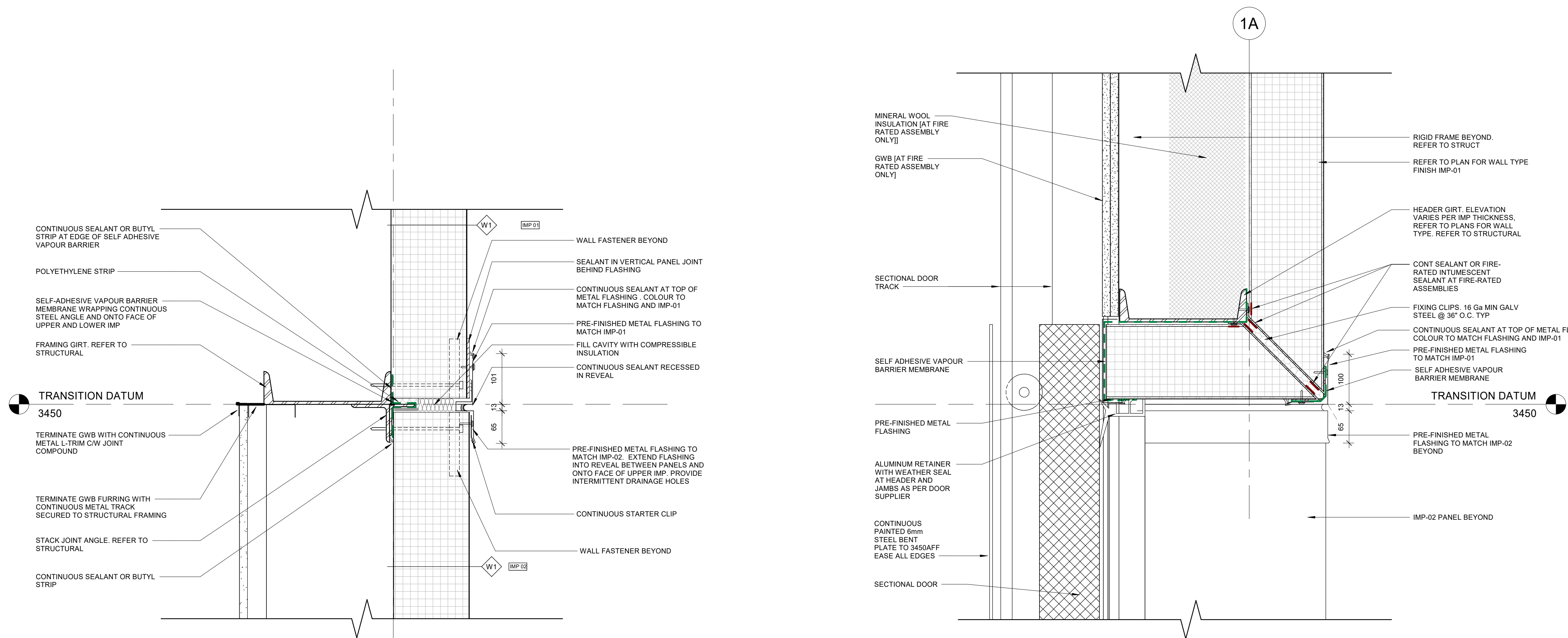
architects
Baird Sampson Neuert

416.363.8877 bsnarchitects.com



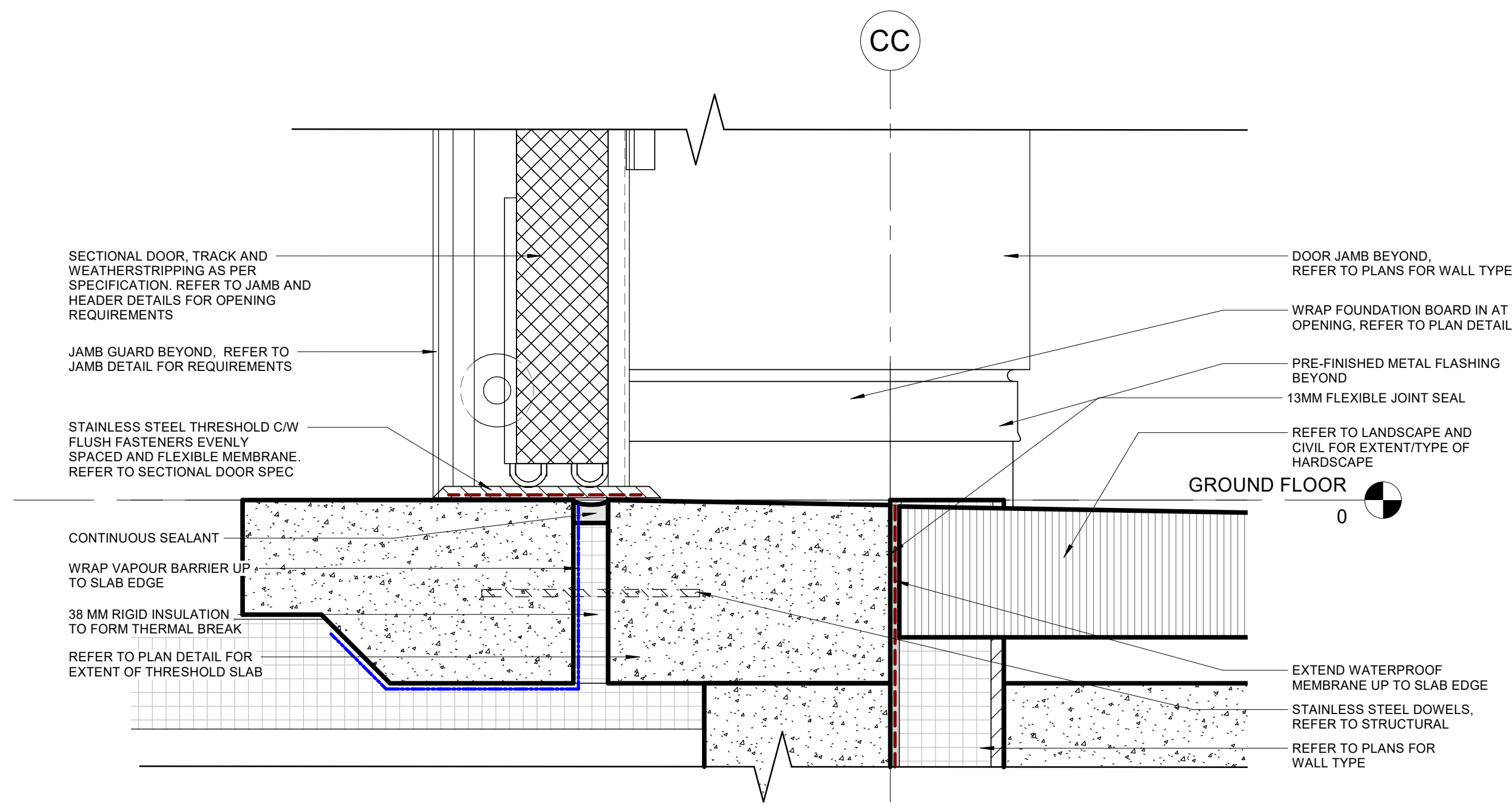
REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS,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

COPYRIGHT © BSN Architects, A Part of WF Group Inc.	
SCALE: 1 : 5	SHEET NO:
DATE: 05/26/20	A526
PROJECT NO: 2301	
DRAWN BY: Author	
CHECKED BY: Checker	

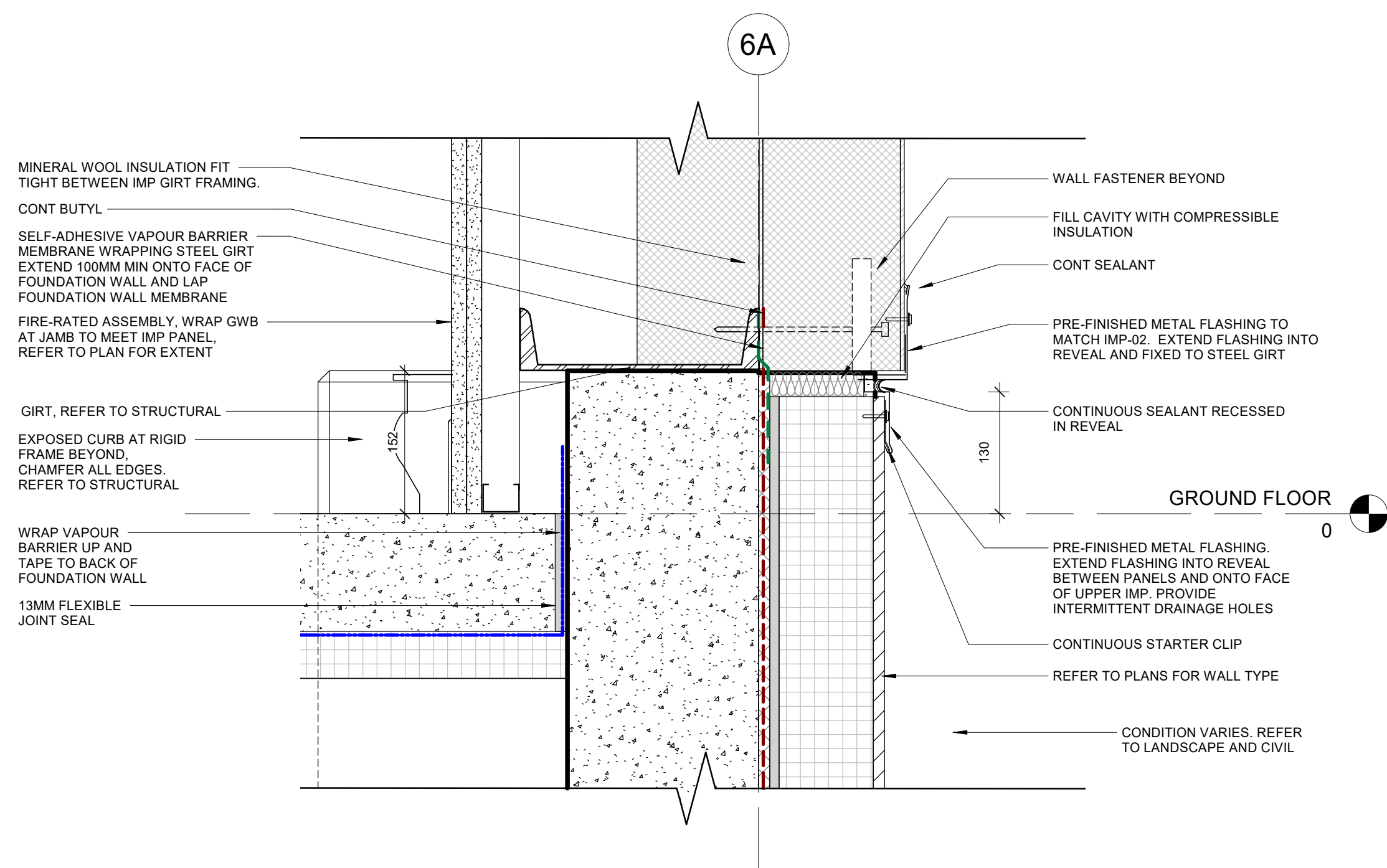


1 SECTION DETAIL AT IMP PANEL TRANSITION
A526 Scale: 1 : 5

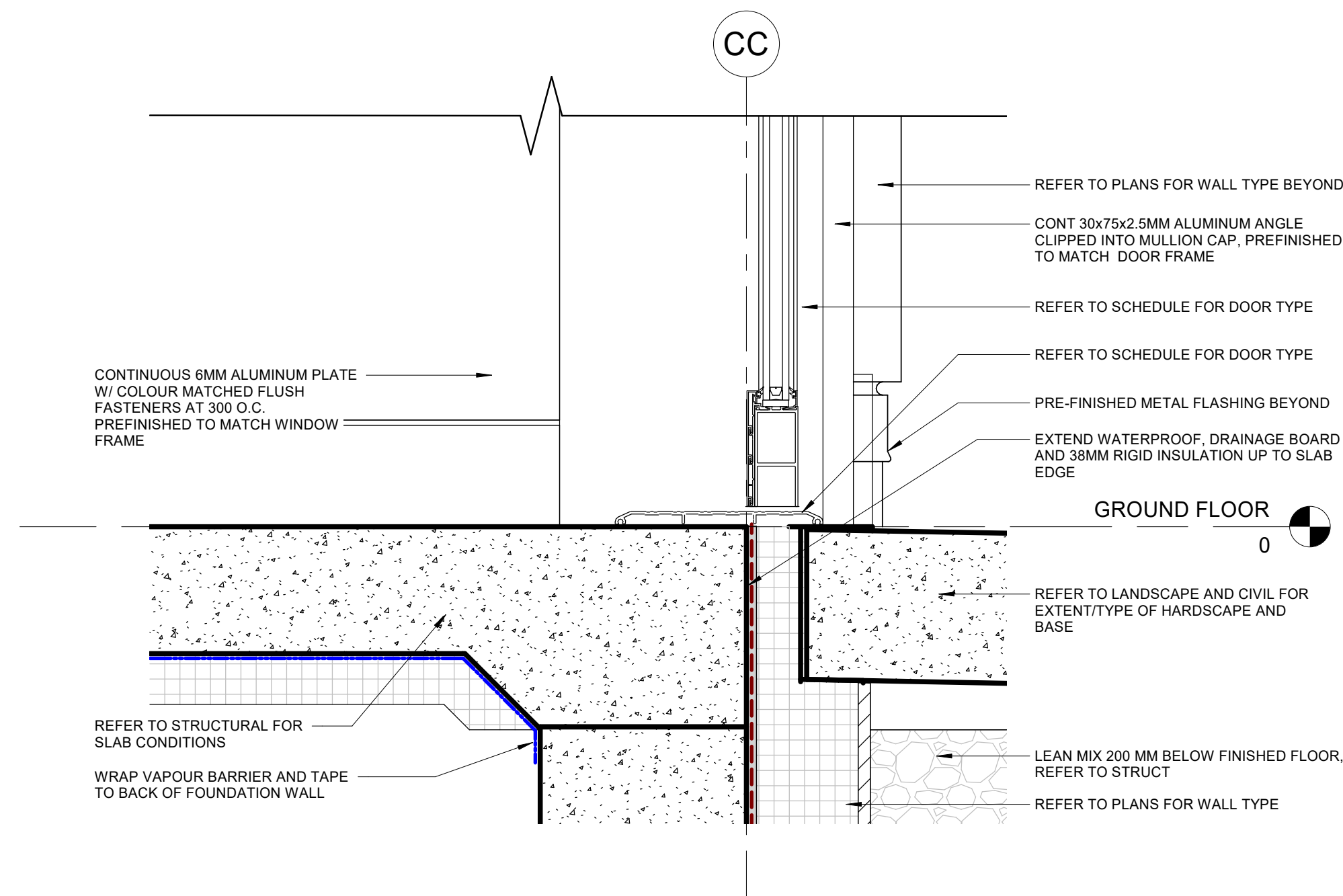
2 SECTION DETAIL AT SECTIONAL DOOR HEADER
A526 Scale: 1 : 5



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

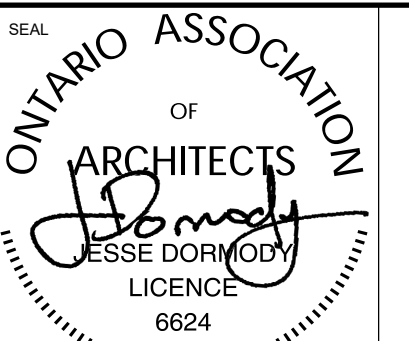
3265 Principal's Road, Mississauga, Ontario

TITLE

SECTION DETAILS - ENVELOPE

architects
Baird Sampson Neuert

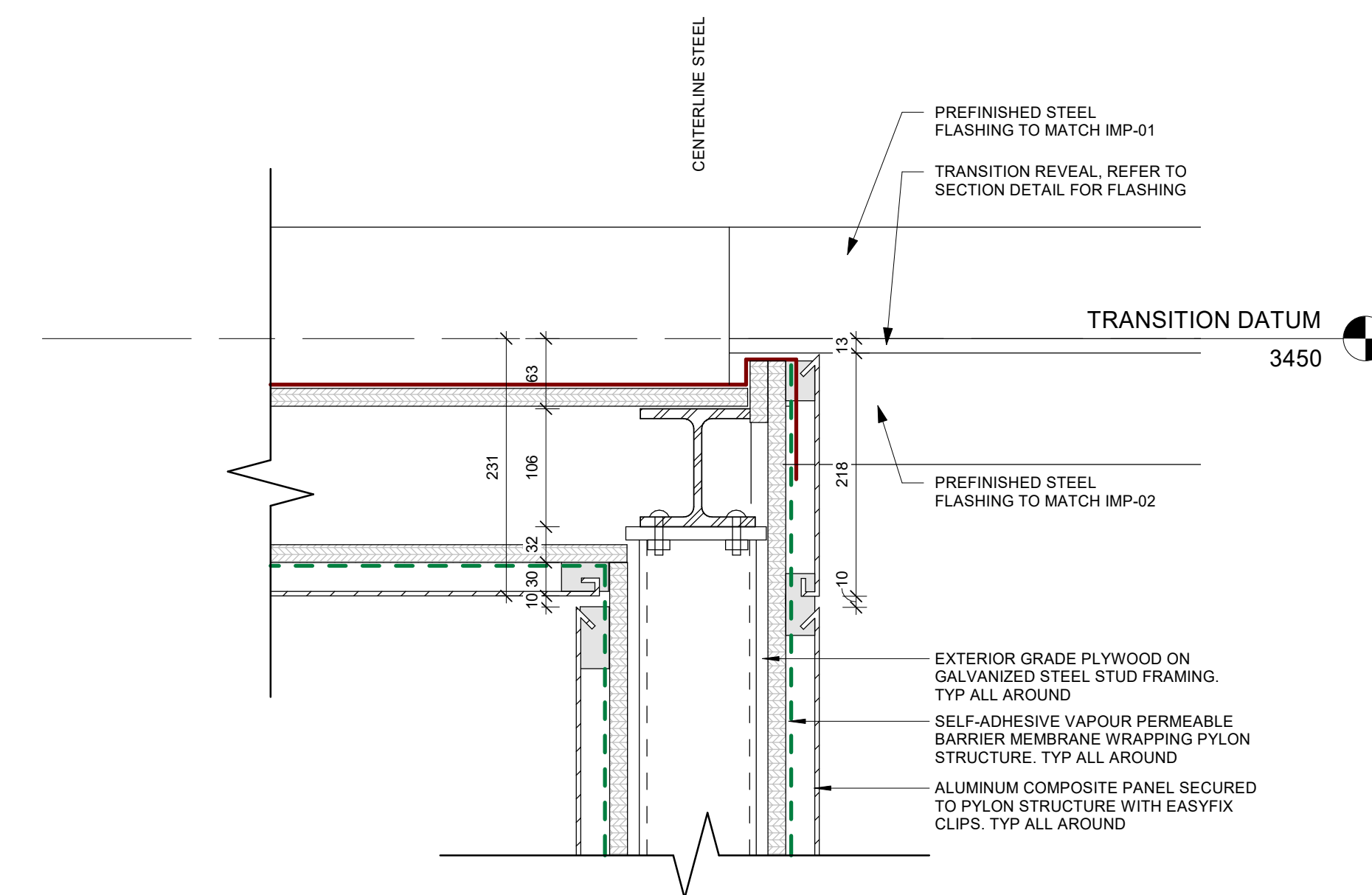
416.363.8877 bsnarchitects.com



REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, 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, A PART OF WF GROUP. - DO NOT SCALE THIS DRAWING -

COPYRIGHT © BSN Architects, A Part of WF Group Inc.

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



ALUMINUM PLATE 6MM PROUD OF GWB WALL FINISH

CONTINUOUS 6MM ALUMINUM PLATE W/ COLOUR MATCHED FLUSH FASTENERS AT 300 O.C. PREFINISHED TO MATCH WINDOW FRAME

CONT SEALANT AND BACKER ROD

NYLON SHIMS, FILL VOIDS WITH SPRAY FOAM INSULATION

CONT BUTYL

CC

CONT SEALANT AND BACKER ROD

SELF-ADHESIVE VAPOUR BARRIER MEMBRANE WRAPPING INTO MULLION FRAME

CONT 30x75x2.5MM ANGLE CLIPPED INTO MULLION CAP. PREFINISHED TO MATCH WINDOW FRAME

EXTEND ALUMINUM COMPOSITE PANEL TO ALIGN WITH BACK OF MULLION CAP

SELF-ADHESIVE VAPOUR BARRIER MEMBRANE WRAPPING INTO MULLION FRAME

EXTERIOR GRADE PLYWOOD ON GALVANIZED STEEL STUD FRAMING, TYP ALL AROUND

SELF-ADHESIVE VAPOUR PERMEABLE BARRIER MEMBRANE WRAPPING PYLON STRUCTURE, TYP ALL AROUND

ALUMINUM COMPOSITE PANEL SECURED TO PYLON STRUCTURE WITH EASYFIX CLIPS, TYP ALL AROUND

SOFFIT SEAMS ABOVE, REFER TO REFLECTED CEILING PLAN

GWB TEAR AWAY L BEAD

REFER TO PLAN FOR WALLTYPE

GIRT, REFER TO STRUCTURAL

SELF-ADHESIVE VAPOUR BARRIER MEMBRANE WRAPPING STEEL GIRT

NOTCH END OF IMP TO ALLOW ALUMINUM COMPOSITE PANEL TO ALIGN WITH BACK OF MULLION CAP. TYPICAL AT JAMB AND HEADER

TIE SELF-ADHESIVE VAPOUR PERMEABLE BARRIER MEMBRANES TOGETHER

HSS COLUMN REFER TO STRUCTURAL

125 X 250 BASEPLATE REFER TO STRUCTURAL

HSS COLUMN REFER TO STRUCTURAL

125 X 250 BASEPLATE REFER TO STRUCTURAL

DASHED LINE DENOTES FOUNDATION WALL, REFER TO STRUCTURAL

PREFINISHED GALVANIZED STEEL DOWNSPOUT CONCEALED WITHIN SIGNAGE WALL BEYOND OUTLETTING TO RIVER ROCK DRAINAGE STRIP, REFER TO LANDSCAPE

Dimensions: 150, 10, 125, 125, 460, 30, 158, 30, 815, 1060, 163, 125, 38, 75, 10, 218

Symbol: 2 A528

[illegible]

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

T.O. MECH.ENCL.

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

8240

CONTINUOUS GALVANIZED STEEL CHANNEL 50 x 100 x 6 MM BOLTED TO POST

22 MM GALVANIZED HEAVY GAUGE Z-GIRT SECURED TO
POST @ 450 MM O.C.

GALVANIZED STEEL 50 x 50 x 6 MM HSS POST, HEIGHT
VARIES TO ACCOMMODATE ROOF SLOPE, REFER TO
ELEVATION.

20 ga 22 MM DEEP PERFORATED CORRUGATED ALUMINUM
PANEL SECURED TO Z-GIRTS @ 150 MM O.C.
PANEL PERFORATED TO 23% OPENNESS

GALVANIZED STEEL ANGLE (100 x 100 x 6 M) OUTRIGGER SECURED
TO POSTS AND ALUMINUM STRUT

CONTINUOUS GALVANIZED STEEL CHANNEL 50 x 100 x 6 MM
BOLTED TO HSS POST AND BOLTED TO ALUMINUM STRUTS.

GALVANIZED PLATE WELDED TO CHANNEL AT OUTRIGGER
LOCATIONS

ALUMINUM STRUT SECURED TO STANDING SEAM
CLAMP ACROSS (3) SEAMS

ENGINEERED STANDING SEAM CLAMP TO IMP
STANDING SEAM RIBS

ROOF HATCH OUTLINE OF CUSTOM
CURB. SECURE TO IMP WITH
TRIPLE BEAD TAPE SEALANT AND
PANCAKE HEAD FASTENERS PER
IMP MANUFACTURER

INSULATED GALVANIZED STEEL
MECHANICAL ROOF CURBS BELOW.
INSTALL CURB IN SEQUENCE WITH
ROOF PANELS AS PER IMP
MANUFACTURERS STANDARD
DETAILS / INSTALLATION
REQUIREMENTS

OUTLINE OF ROOF CURB FLANGE
SHOWN DASHED. SECURE TO IMP
WITH TRIPLE BEAD TAPE SEALANT
AND PANCAKE HEAD FASTENERS
PER IMP MANUFACTURER

TYP AT CURBS:
FIELD REMOVE PANEL RIBS AT
UPSLOPE SIDE OF CURBS AND
HANDCRIMP AND TOOL SEAM AT
DOWN SLOPE SIDE AND NOTCH
CURB FLANGE OVER RIBS AND SEAL.

B

3

9879

R 1220

ROOF HATCH
FLANGE

ROOF HATCH

ROOF SLOPE

COORDINATE FINAL
PLACEMENT OF
SCREEN SUPPORT
FRAMES TO SUIT
LOCATION OF
MECHANICAL CURBS.

1

A530

ALUMINUM STRUTS
SECURED TO IMP
STANDING SEAM WITH
ENGINEERED CLAMPS

CURVED GALVANIZED
STEEL CHANNELS, Z-
GIRTS AND
CORRUGATED SHEETS

GALVANIZED STEEL
FRAME /
OUTRIGGER

INSULATED METAL
PANEL STANDING
SEAM [TYP.]

2

ENLARGED PLAN - ROOF TOP ENCLOSURE

A530

Scale: 1 : 50

1

SECTION DETAIL AT MECHANICAL ENCLOSURE

A530

Scale: 1 : 5

GALVANIZED STEEL OUTRIGGER
BELOW SECURED TO STRUT AND
CHANNEL

ALUMINUM STRUT BELOW

STANDING SEAM CLAMP BELOW

STANDING SEAM BELOW

GALVANIZED STEEL HSS POST (50 x 50 x 6
MM) SECURED TO CONT. GALVANIZED
STEEL CHANNELS

22 MM GALVANIZED HEAVY DUTY Z-
GIRT SECURED TO POST

20 Ga 22 MM DEEP PAINTED
PERFORATED CORRUGATED
ALUMINUM PANEL

CONTINUOUS GALVANIZED STEEL
CHANNEL 50 x 100 x 6 MM BOLTED TO
POST

LAP PANEL AT ENDS MIN. 200 MM

3

PLAN DETAIL AT MECHANICAL ENCLOSURE

A530

Scale: 1 : 5

CLIENT LOGO



UNIVERSITY OF
TORONTO
MISSISSAUGA

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

CLIENT

University of Toronto Mississauga

PROJECT

Pre-Engineered Building

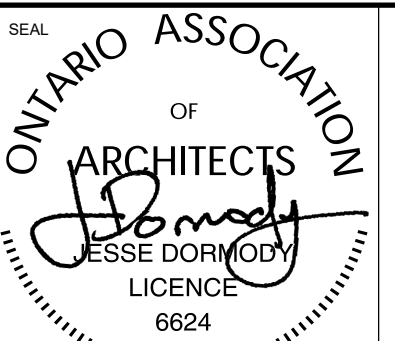
3265 Principal's Road, Mississauga, Ontario

TITLE

ROOF TOP ENCLOSURE
DETAILS

architects
Baird Sampson Neuert

416.363.8877 bsnarchitects.com

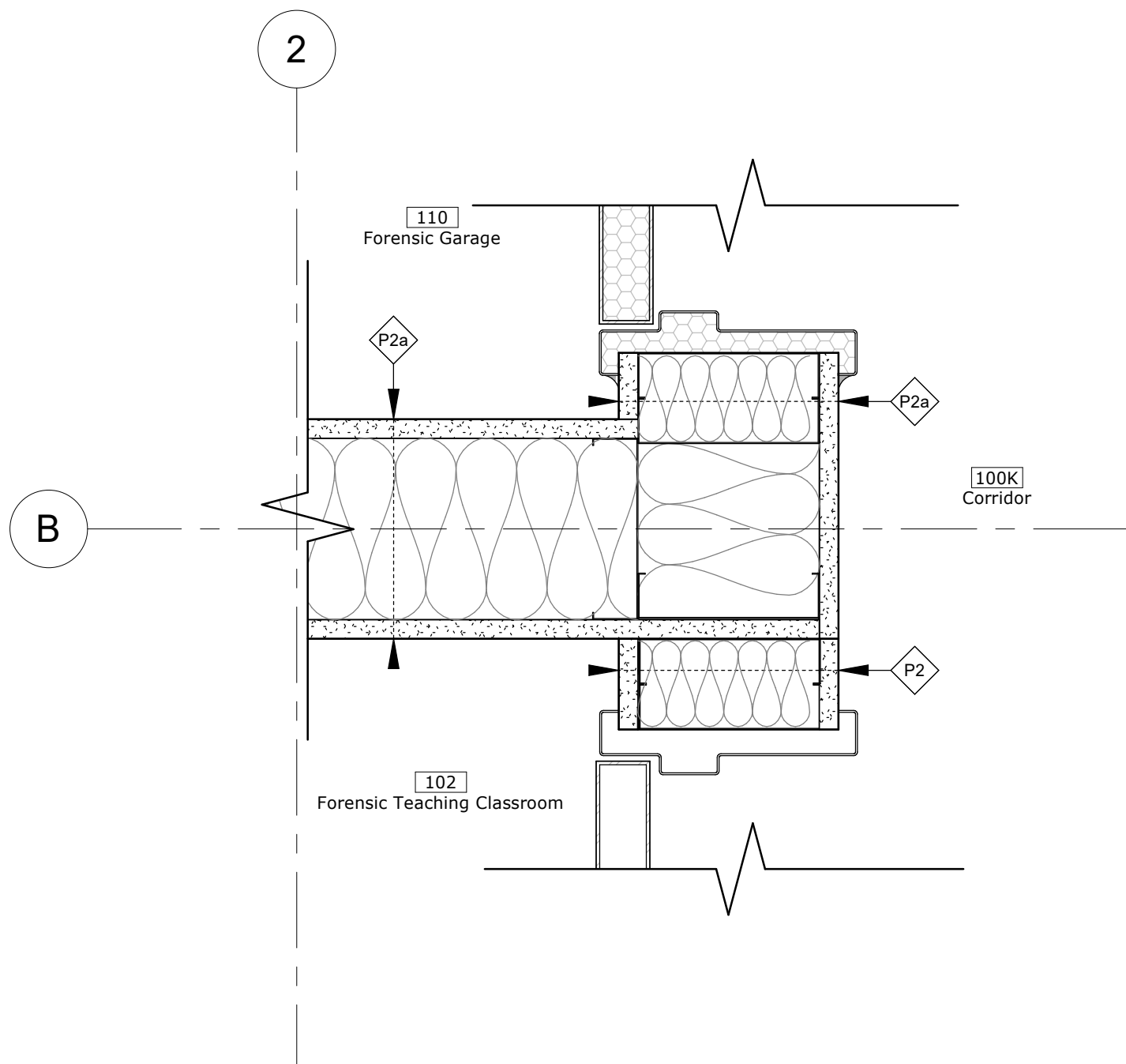


REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN
ARCHITECTS, A PART OF WF GROUP, IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND
BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY
VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN
ARCHITECTS,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

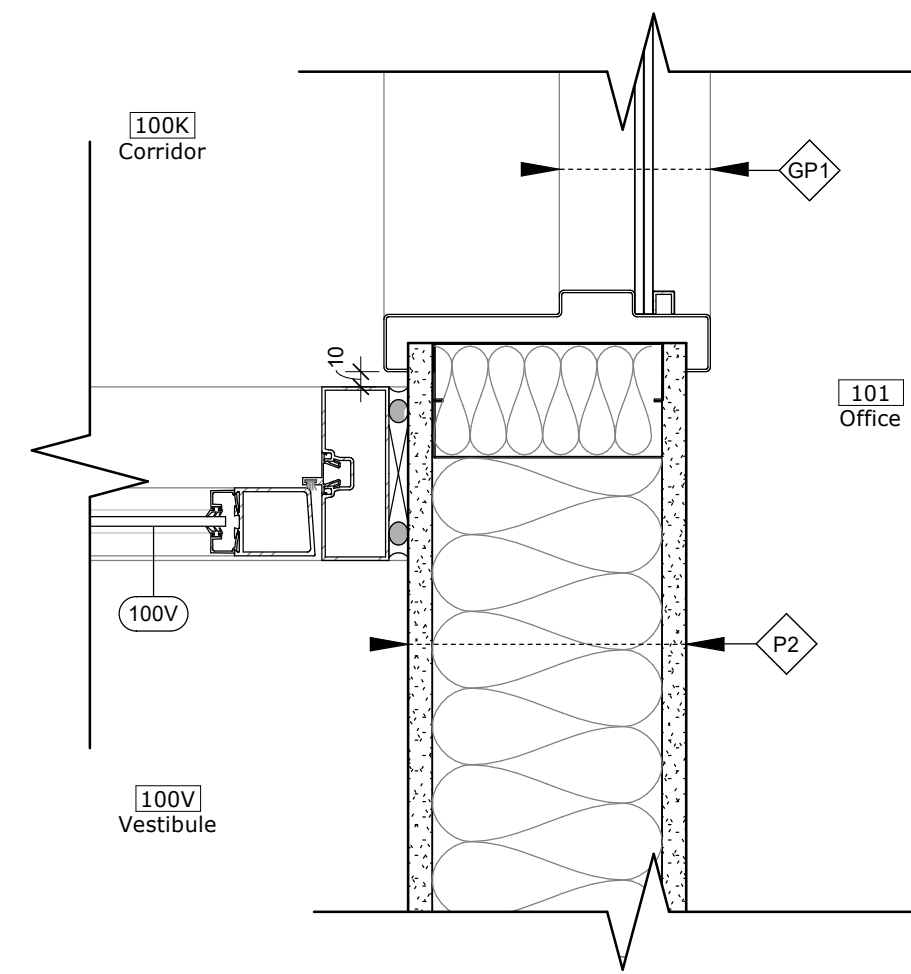
COPYRIGHT © BSN Architects, A Part of WF Group Inc.

SCALE:	As Indicated	SHEET NO.:
DATE:	05/26/20	
PROJECT NO.:	2301	
DRAWN BY:	Author	
CHECKED BY:	Checker	

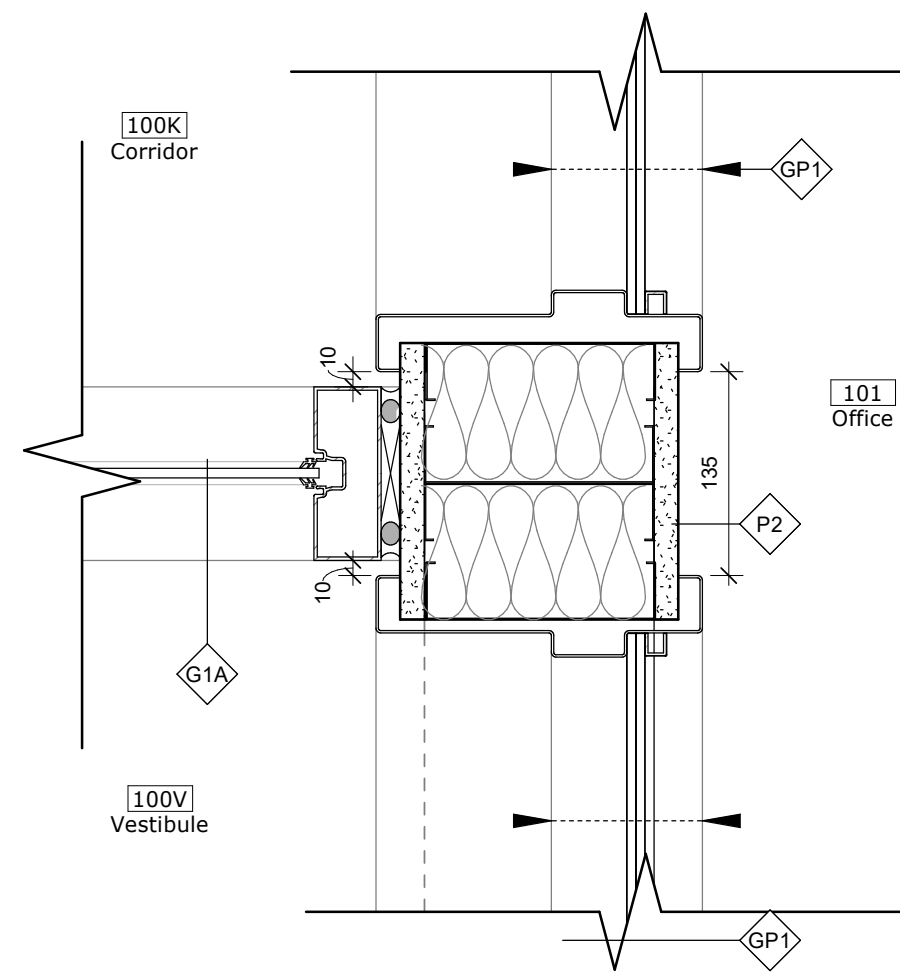
A530



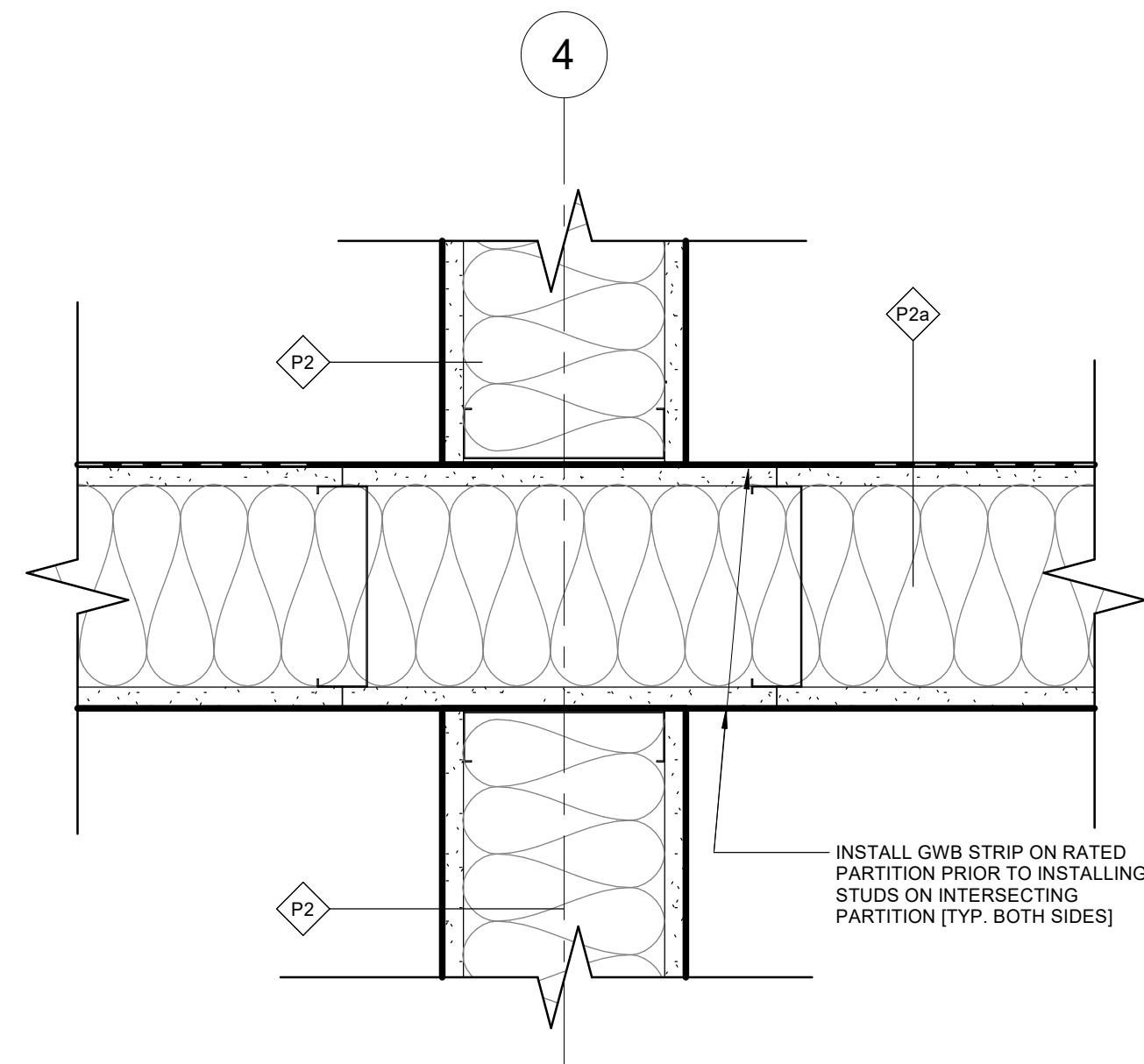
1 PLAN DETAIL - P2 / P2A CONNECTION
A601 Scale: 1 : 5



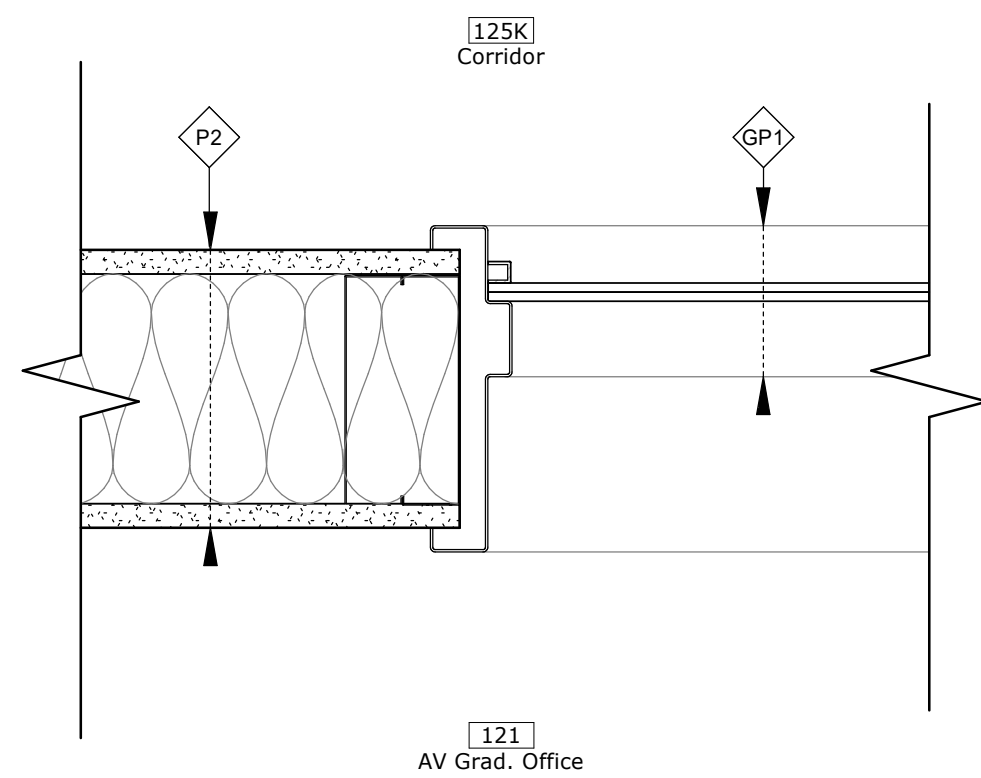
2 PLAN DETAIL - INTERIOR VESTIBULE
A601 Scale: 1 : 5



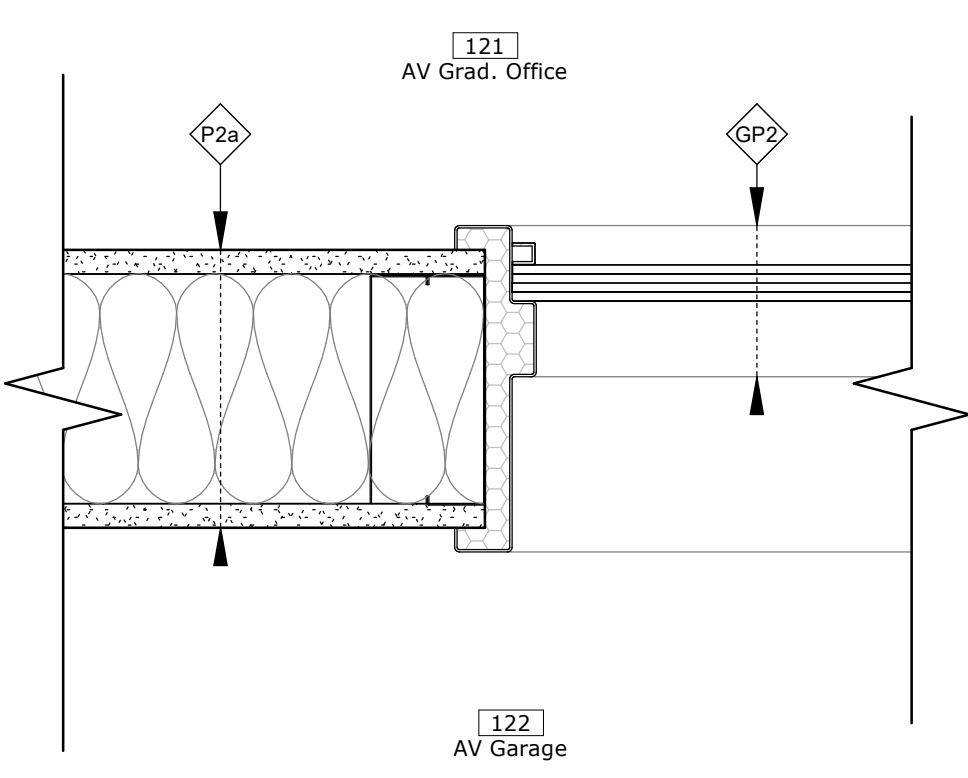
3 PLAN DETAIL - INTERIOR VESTIBULE AT TRANSOM
A601 Scale: 1 : 5



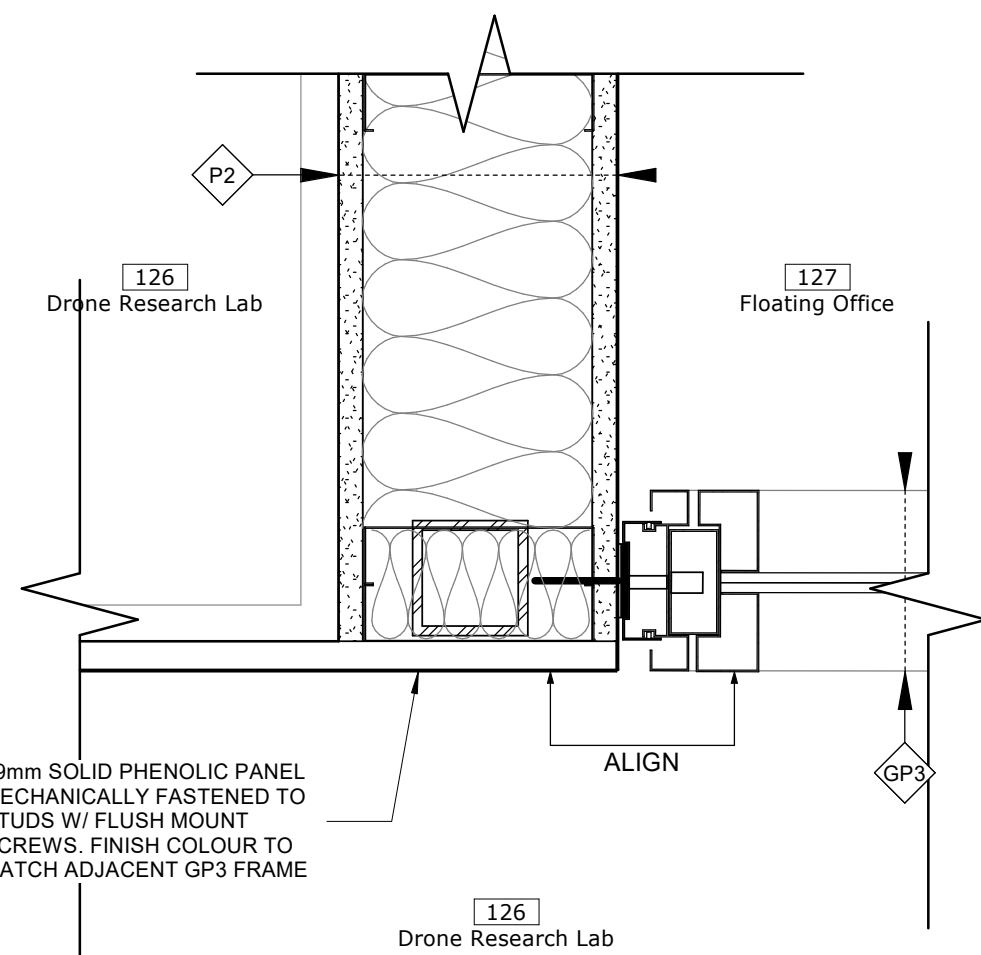
4 PLAN DETAIL - FIRE-RATED PARTITION INTERSECTION
A601 Scale: 1 : 5



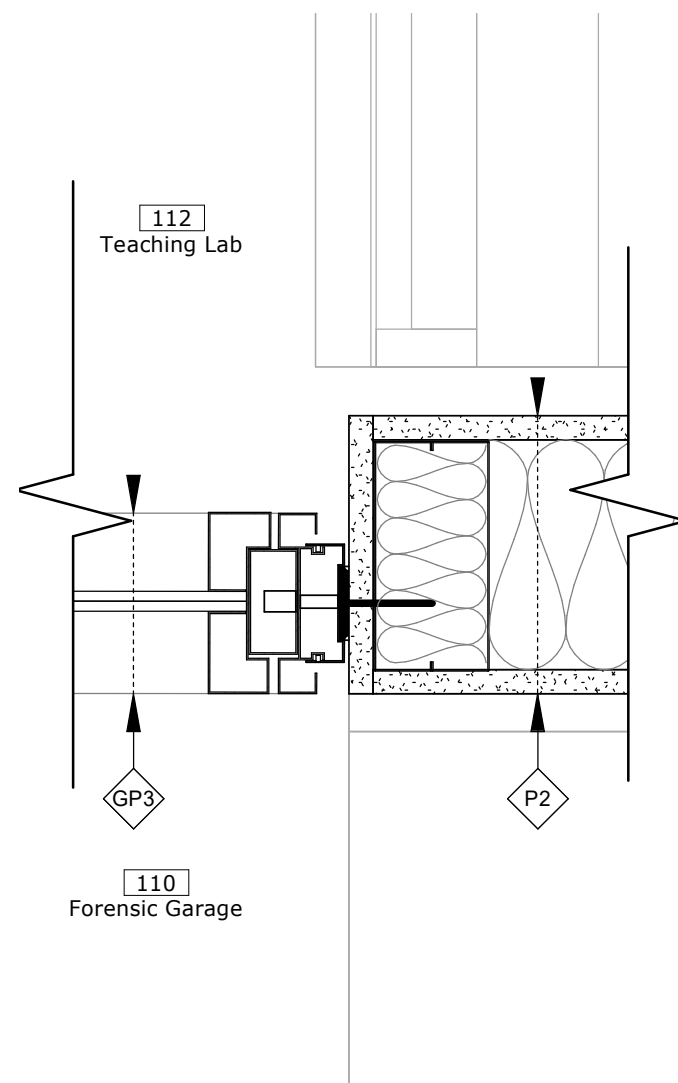
5 PLAN DETAIL - INTERIOR WINDOW GP1
A601 Scale: 1 : 5



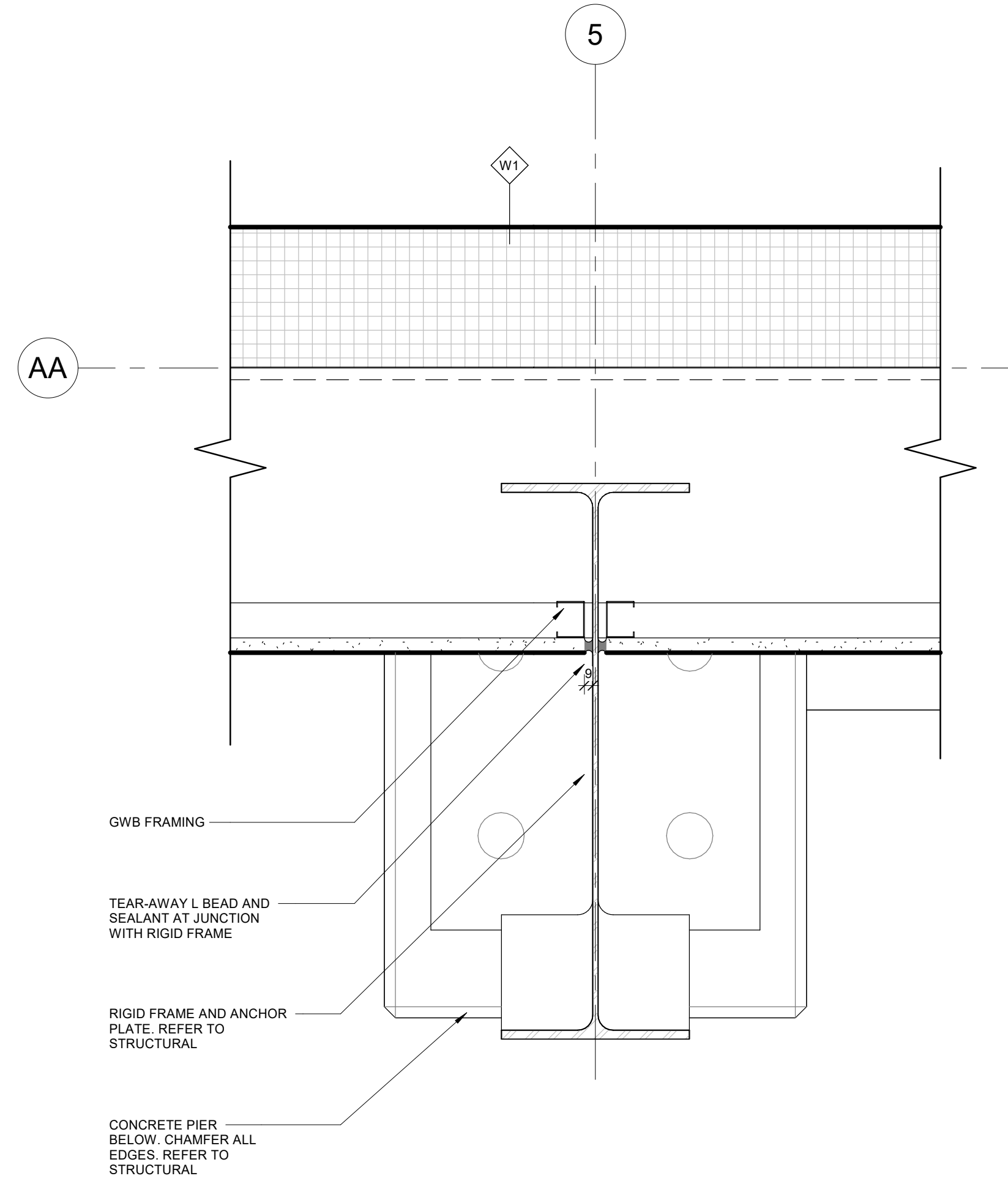
6 PLAN DETAIL - INTERIOR FIRE-RATED WINDOW GP2
A601 Scale: 1 : 5



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

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

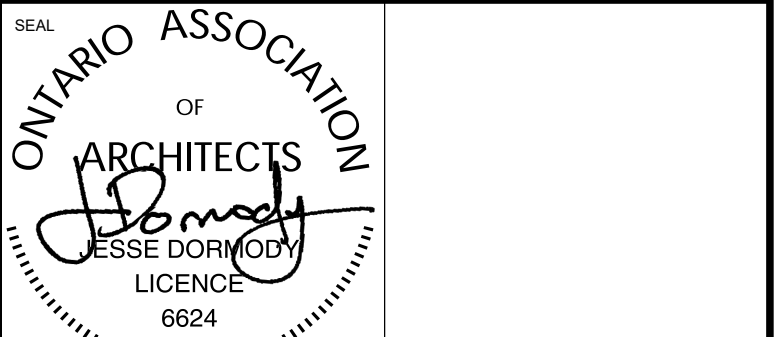
CLIENT
University of Toronto Mississauga

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

TITLE
PLAN DETAILS - INTERIOR

architects
Baird Sampson Neufert

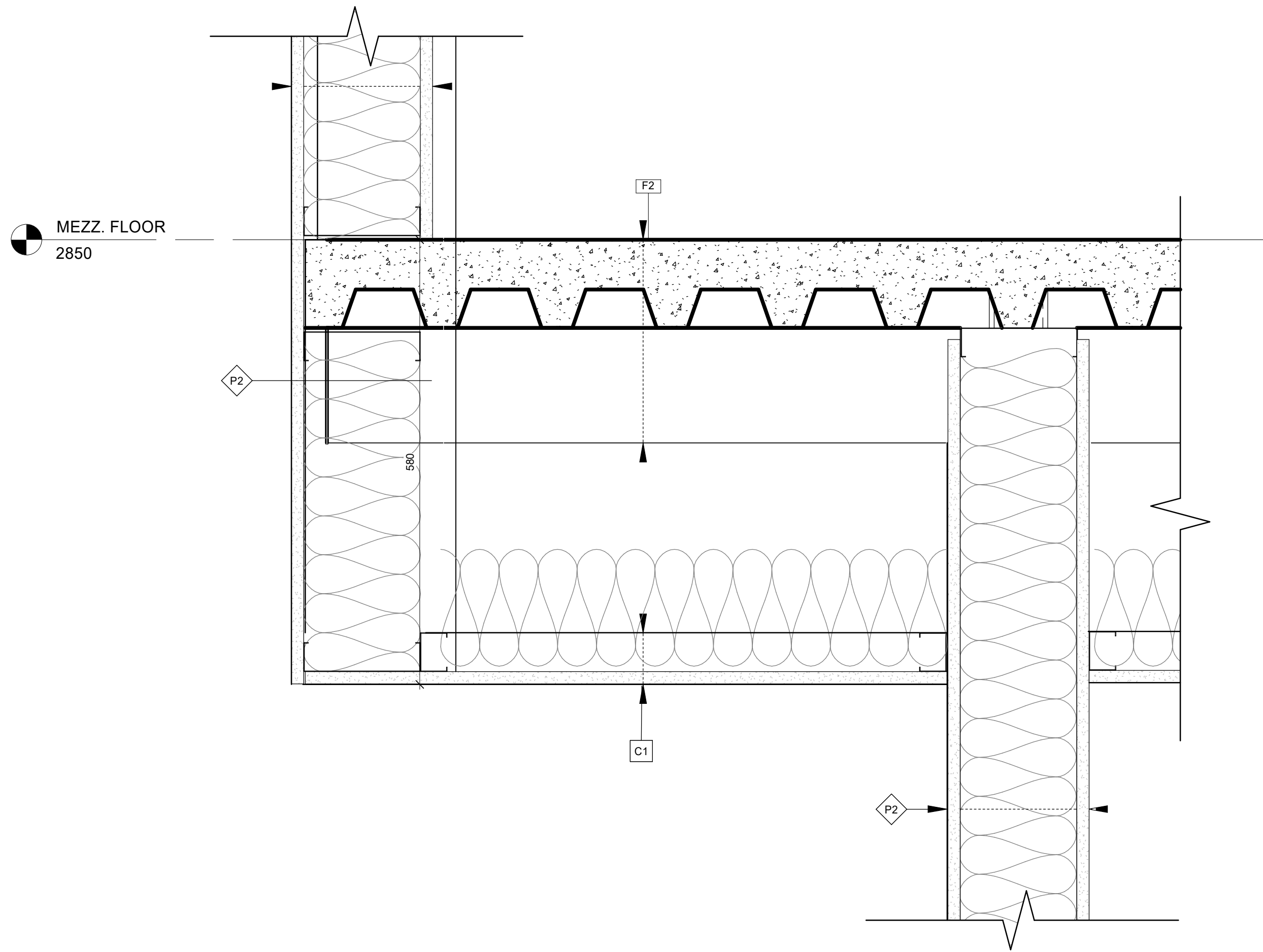
416.363.8877 bsnarchitects.com



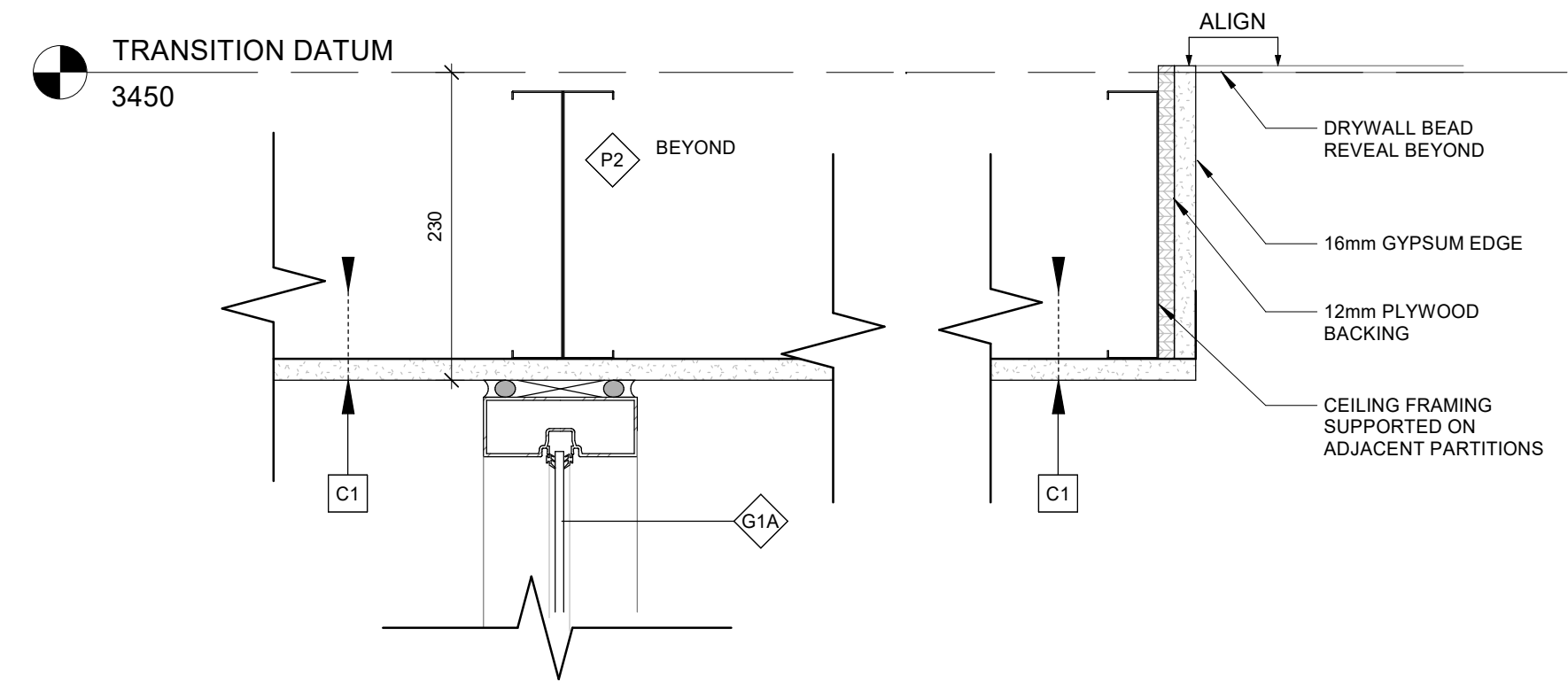
REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS. A PART OF WF GROUP. IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS.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

COPYRIGHT © BSN Architects. A Part of WF Group Inc.

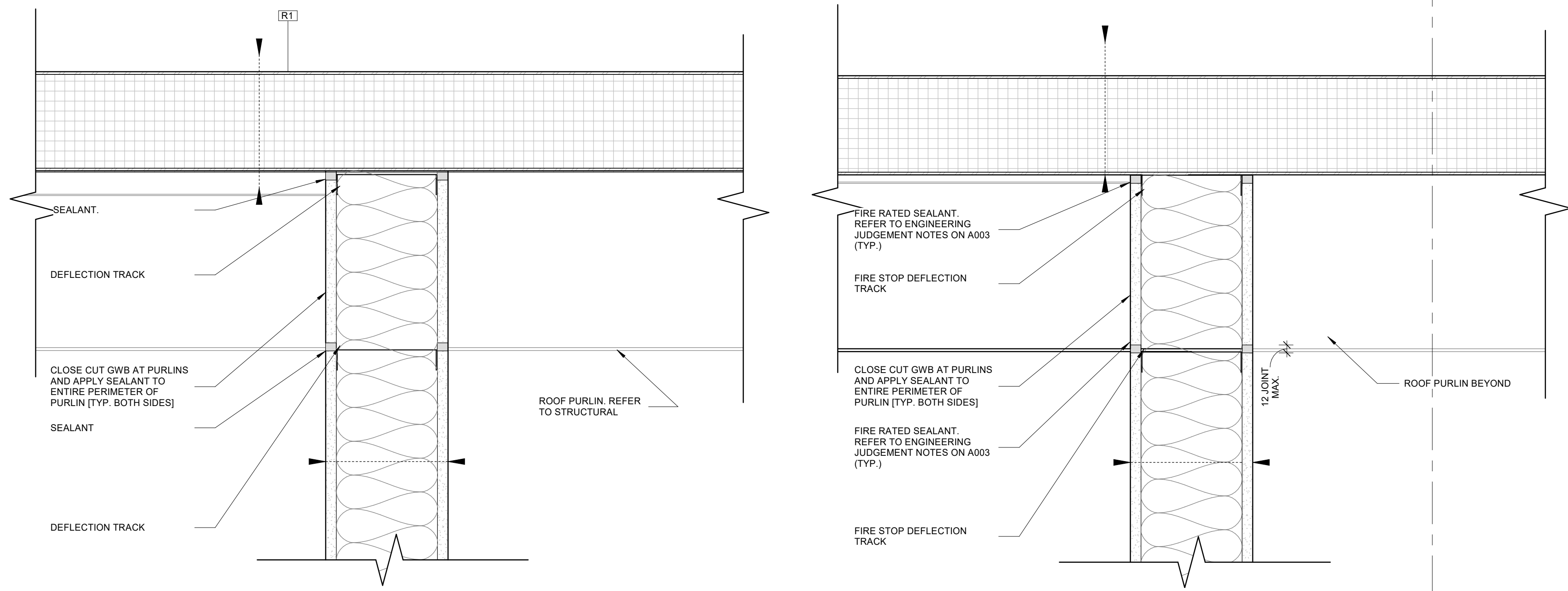
SCALE: 1 : 5	SHEET NO:
DATE: 05/26/20	A601
PROJECT NO: 2301	
DRAWN BY: Author	
CHECKED BY: Checker	



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

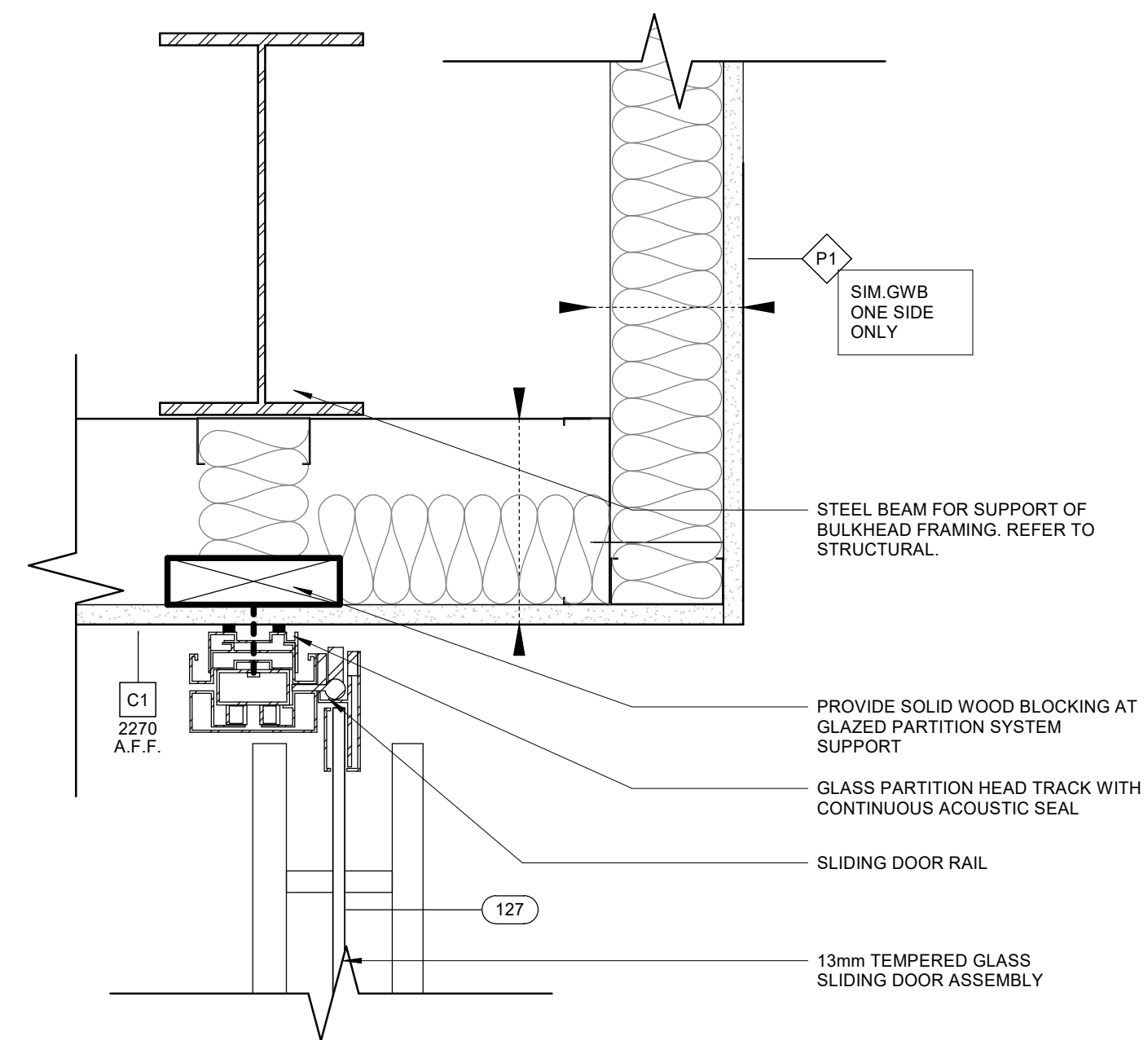


2 SECTION DETAIL - VESTIBULE CEILING
A602 Scale: 1 : 5



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

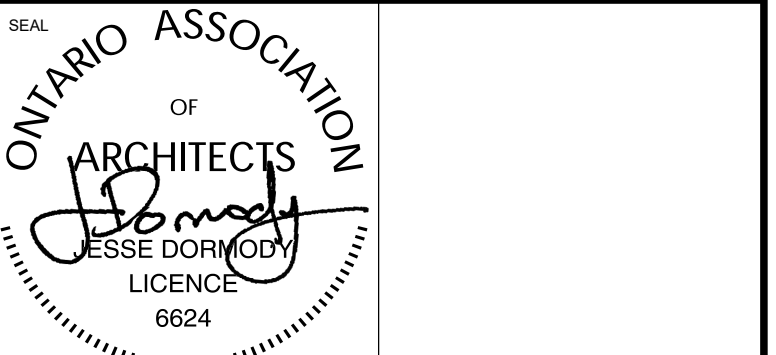
CLIENT
University of Toronto Mississauga

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

TITLE
SECTION DETAILS - INTERIOR

architects
Baird Sampson Neuert

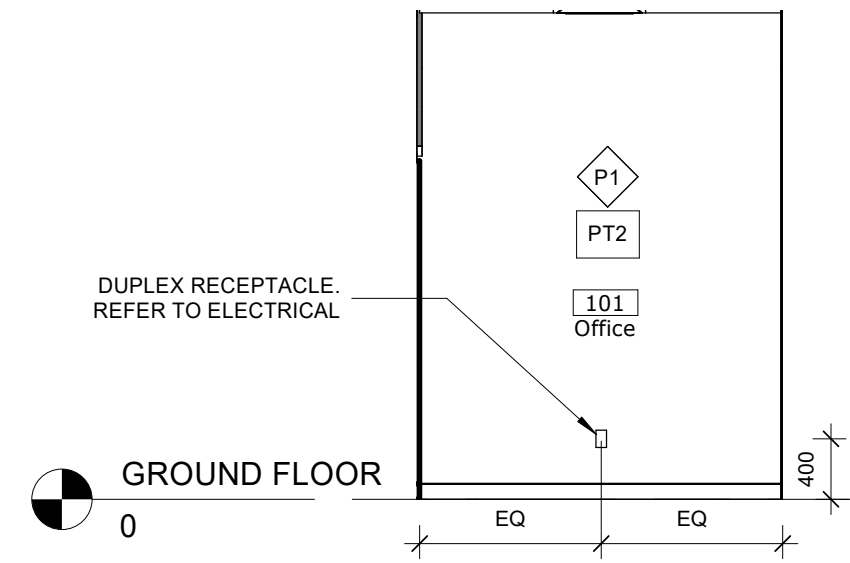
416.363.8877 bsnarchitects.com



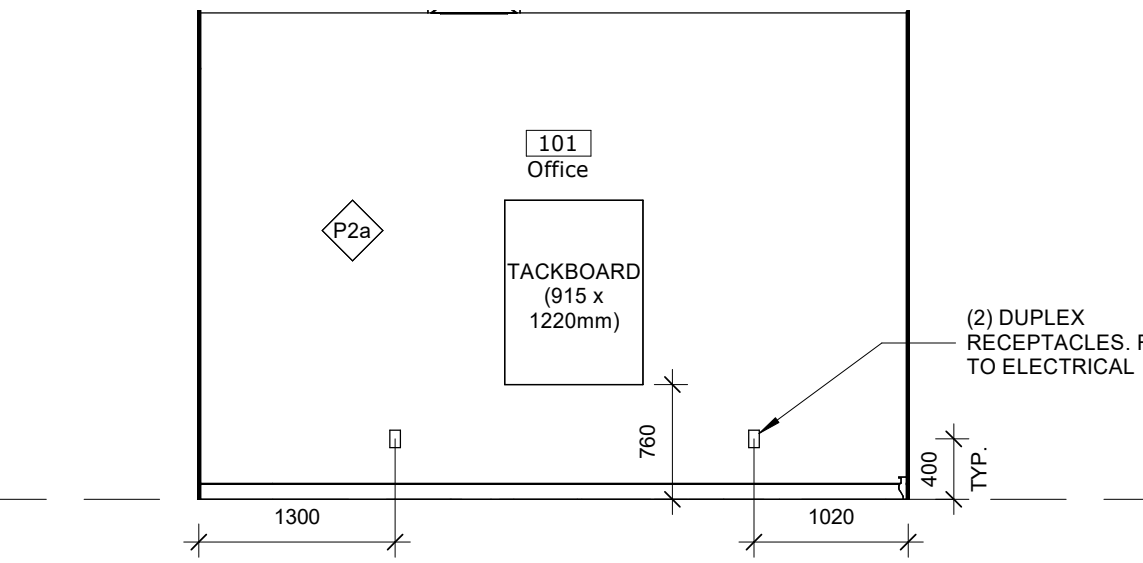
REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS,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

COPYRIGHT © BSN Architects, A Part of WF Group Inc.

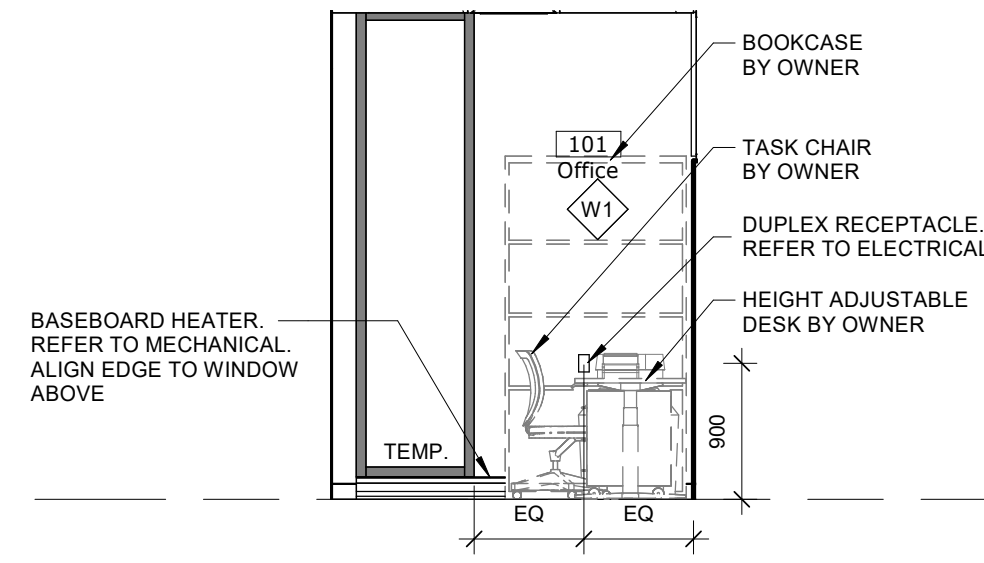
SCALE : 1 : 5	SHEET NO. : A602
DATE : 05/26/20	
PROJECT NO. : 2301	
DRAWN BY : Author	
CHECKED BY : Checker	



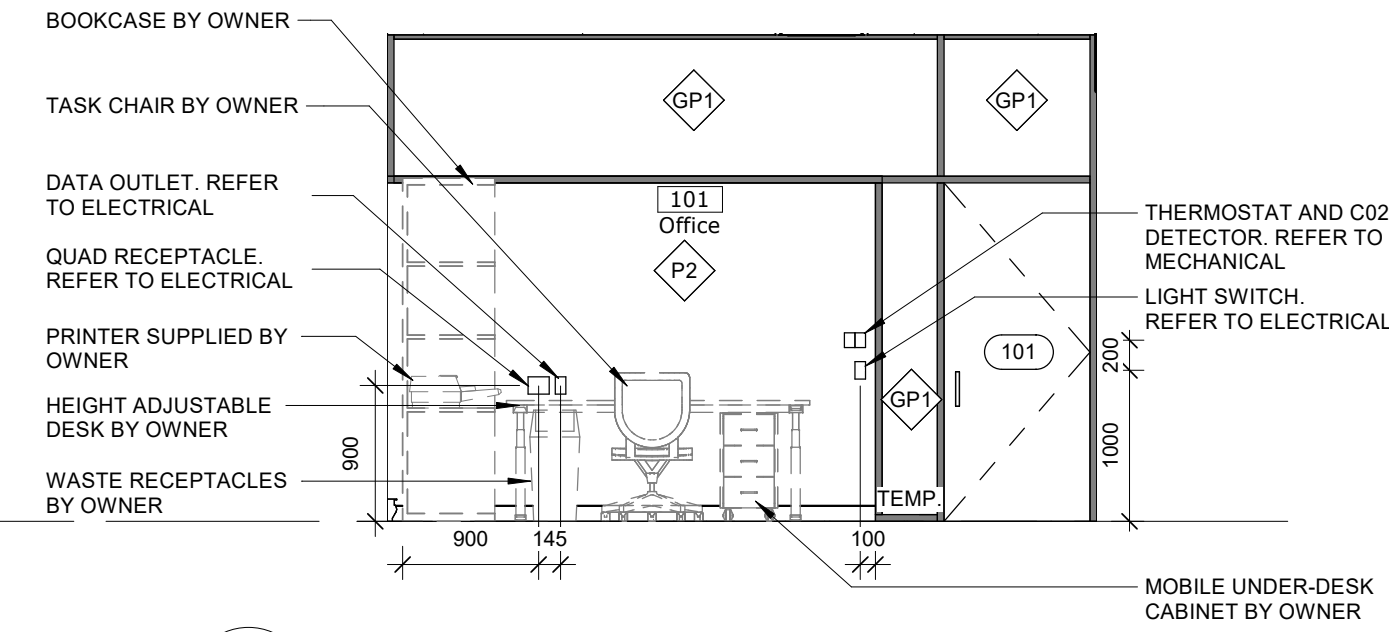
1 INT ELEV - OFFICE NORTH
A701 Scale: 1 : 50



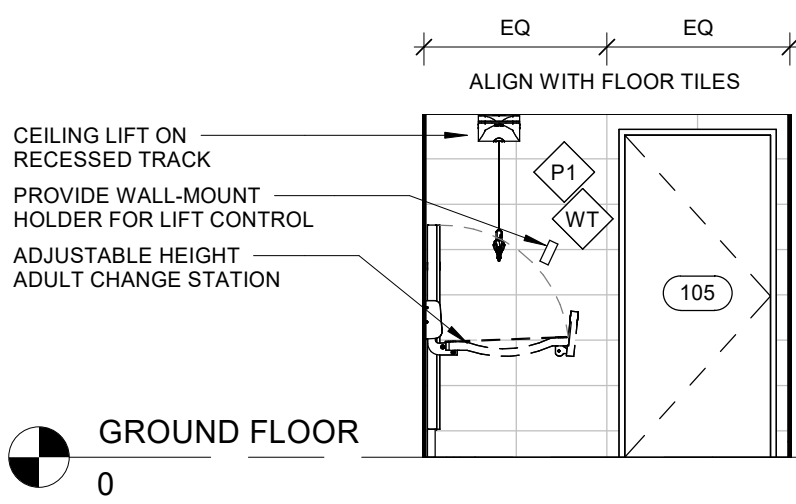
2 INT ELEV - OFFICE EAST
A701 Scale: 1 : 50



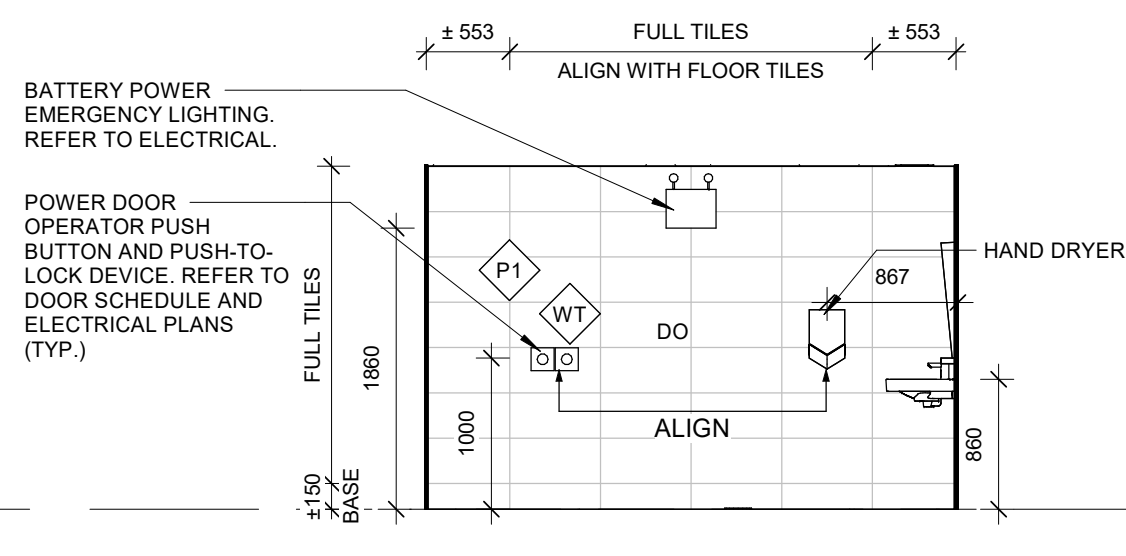
3 INT ELEV - OFFICE SOUTH
A701 Scale: 1 : 50



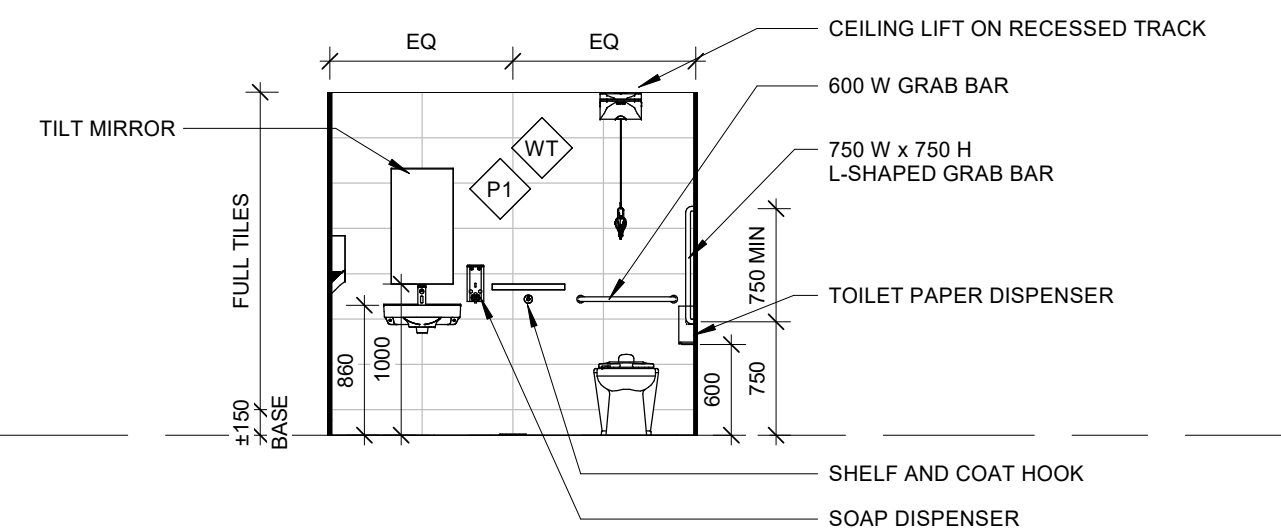
4 INT ELEV - OFFICE WEST
A701 Scale: 1 : 50



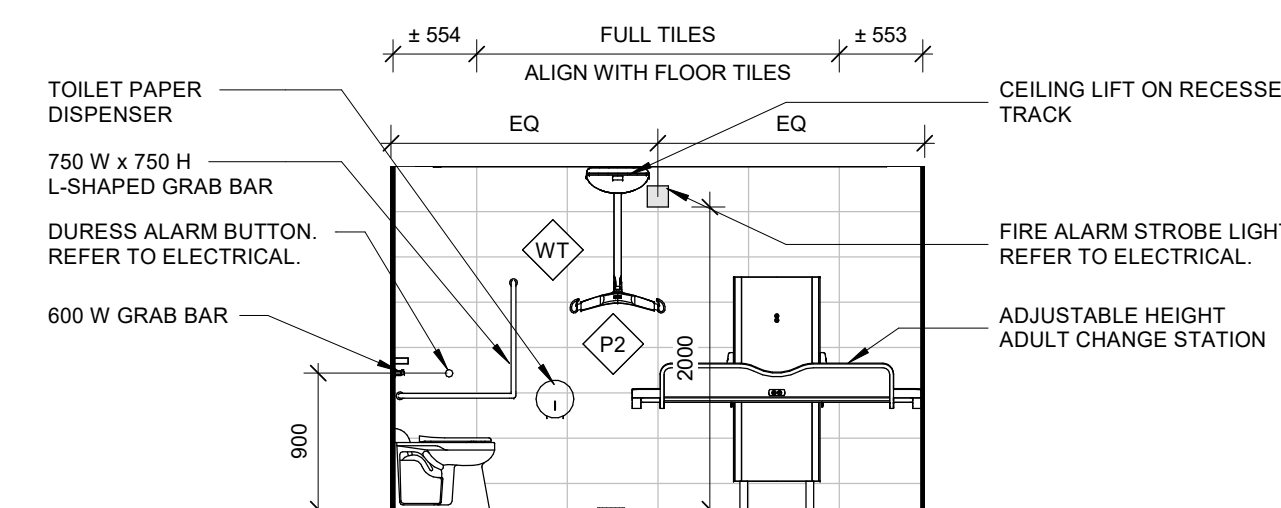
5 INT ELEV - UNIVERSAL WASHROOM NORTH
A701 Scale: 1 : 50



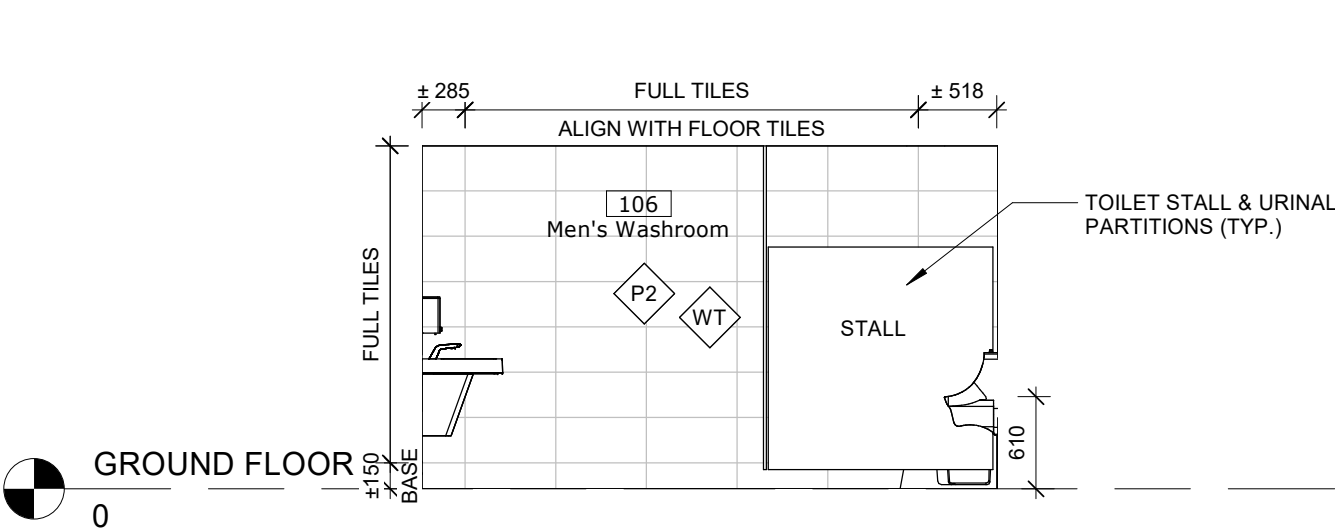
6 INT ELEV - UNIVERSAL WASHROOM EAST
A701 Scale: 1 : 50



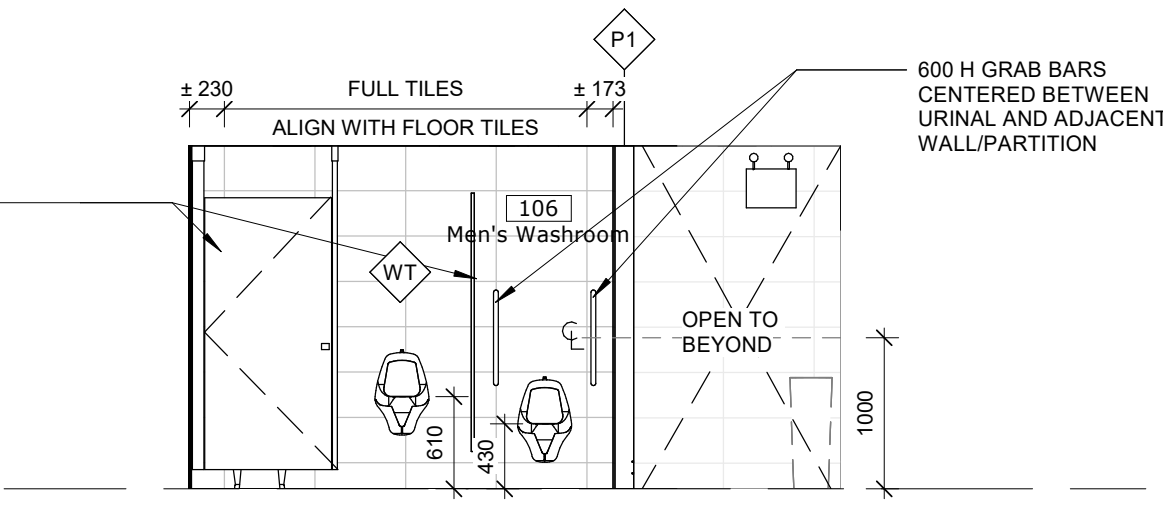
7 INT ELEV - UNIVERSAL WASHROOM SOUTH
A701 Scale: 1 : 50



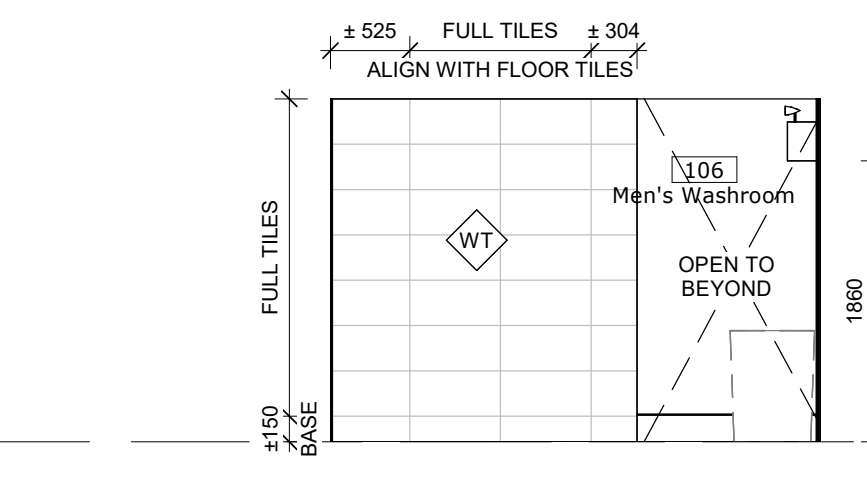
8 INT ELEV - UNIVERSAL WASHROOM WEST
A701 Scale: 1 : 50



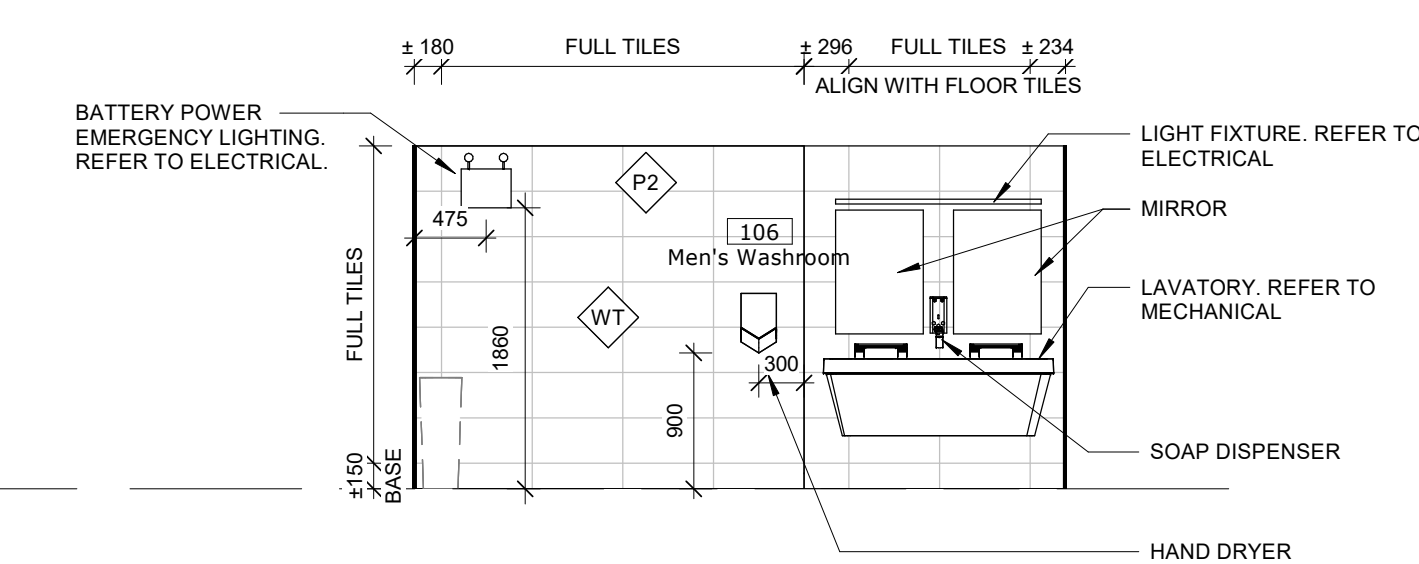
9 INT ELEV - MEN'S WASHROOM NORTH
A701 Scale: 1 : 50



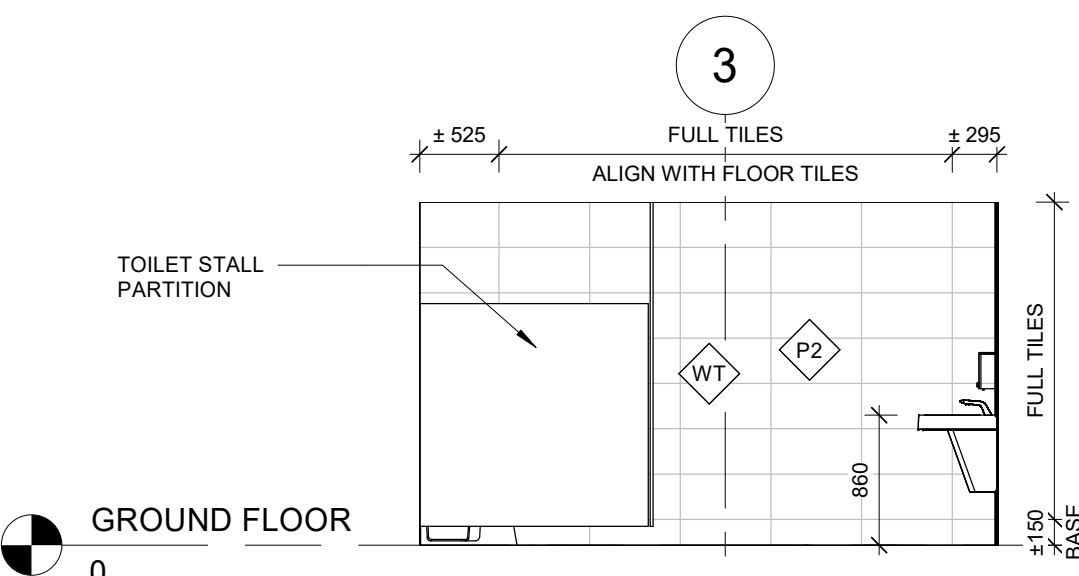
10 INT ELEV - MEN'S WASHROOM EAST
A701 Scale: 1 : 50



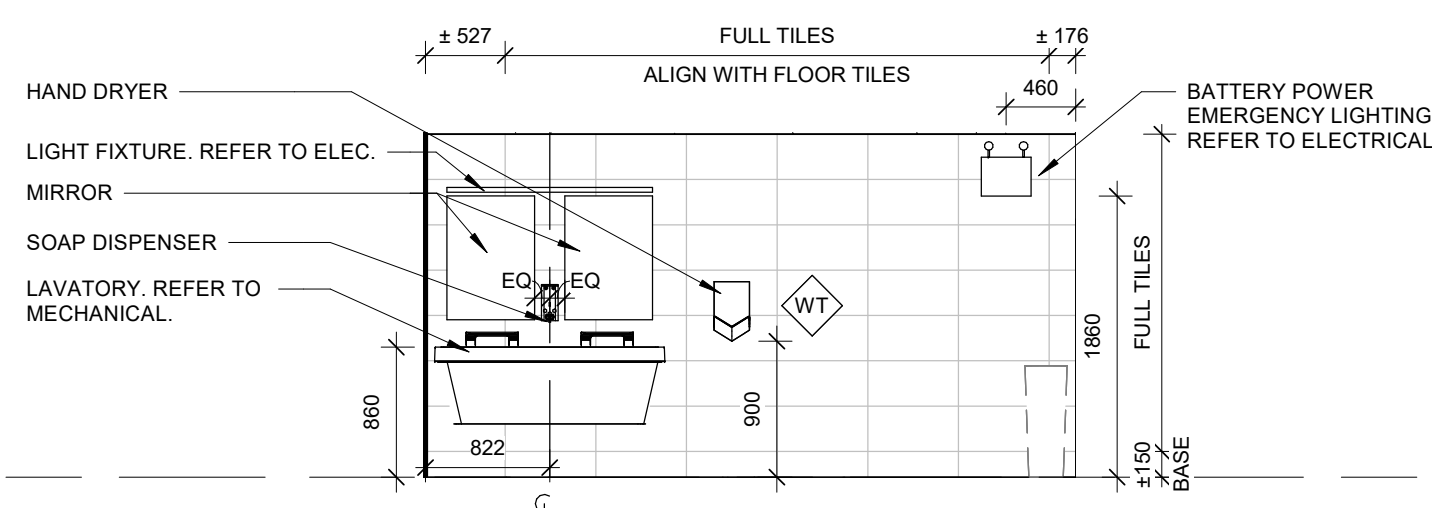
11 INT ELEV - MEN'S WASHROOM SOUTH
A701 Scale: 1 : 50



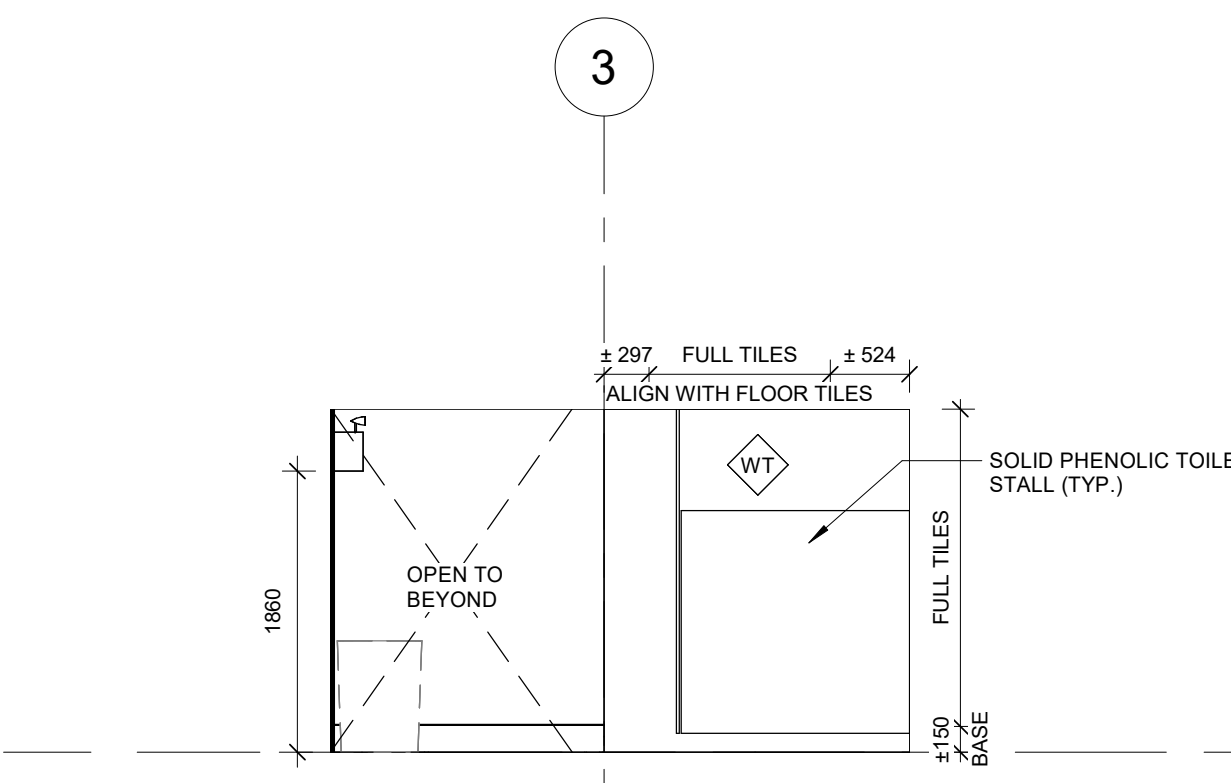
12 INT ELEV - MEN'S WASHROOM WEST
A701 Scale: 1 : 50



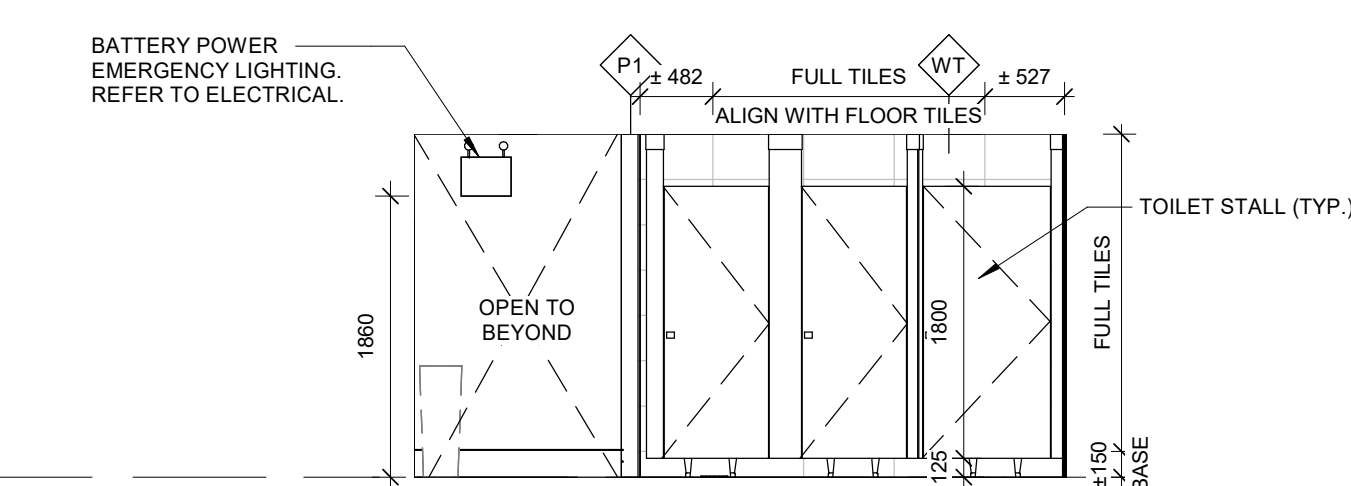
13 INT ELEV - WOMEN'S WASHROOM NORTH
A701 Scale: 1 : 50



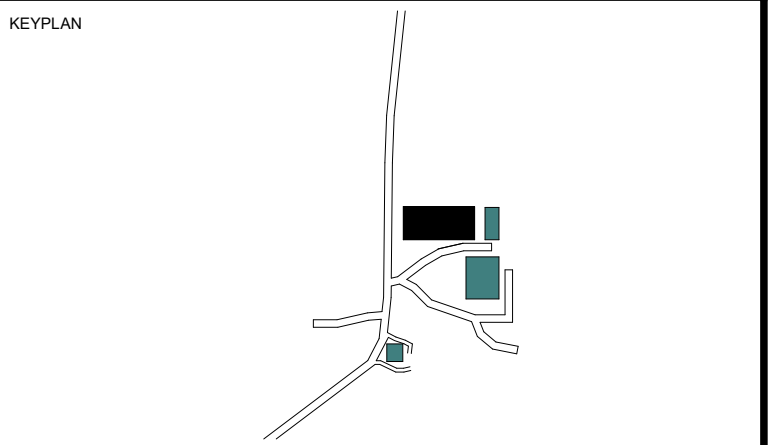
14 INT ELEV - WOMEN'S WASHROOM EAST
A701 Scale: 1 : 50



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



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



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

CLIENT
University of Toronto Mississauga

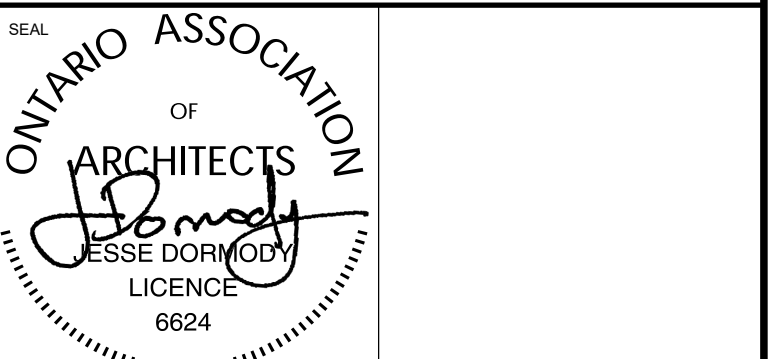
PROJECT
Pre-Engineered Building

3265 Principal's Road, Mississauga, Ontario

TITLE
INTERIOR ELEVATIONS

architects
Baird Sampson Neut

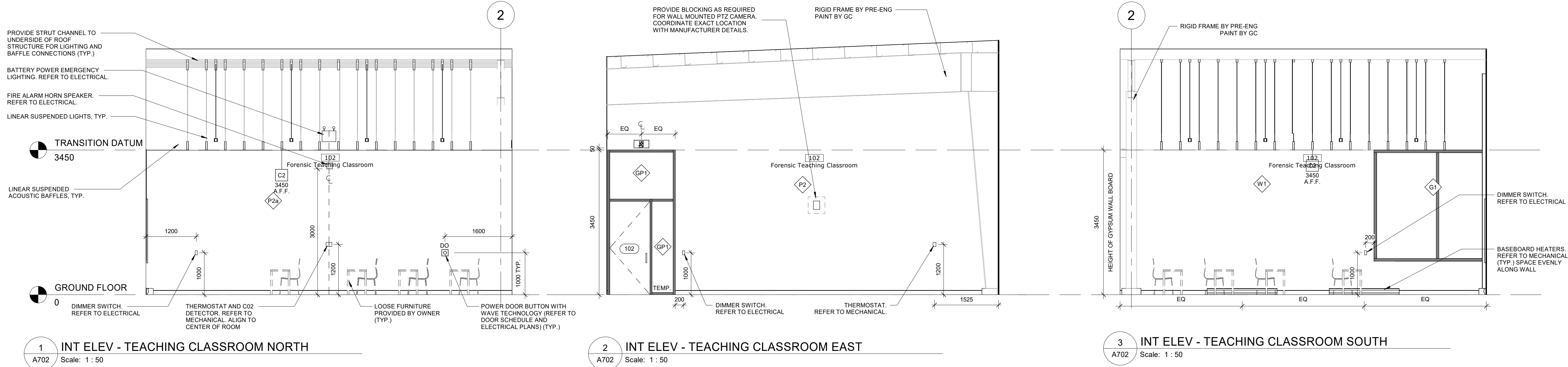
416.363.8877 bsnarchitects.com



REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, 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, A PART OF WF GROUP. - DO NOT SCALE THIS DRAWING. -

COPYRIGHT © BSN Architects, A Part of WF Group Inc.

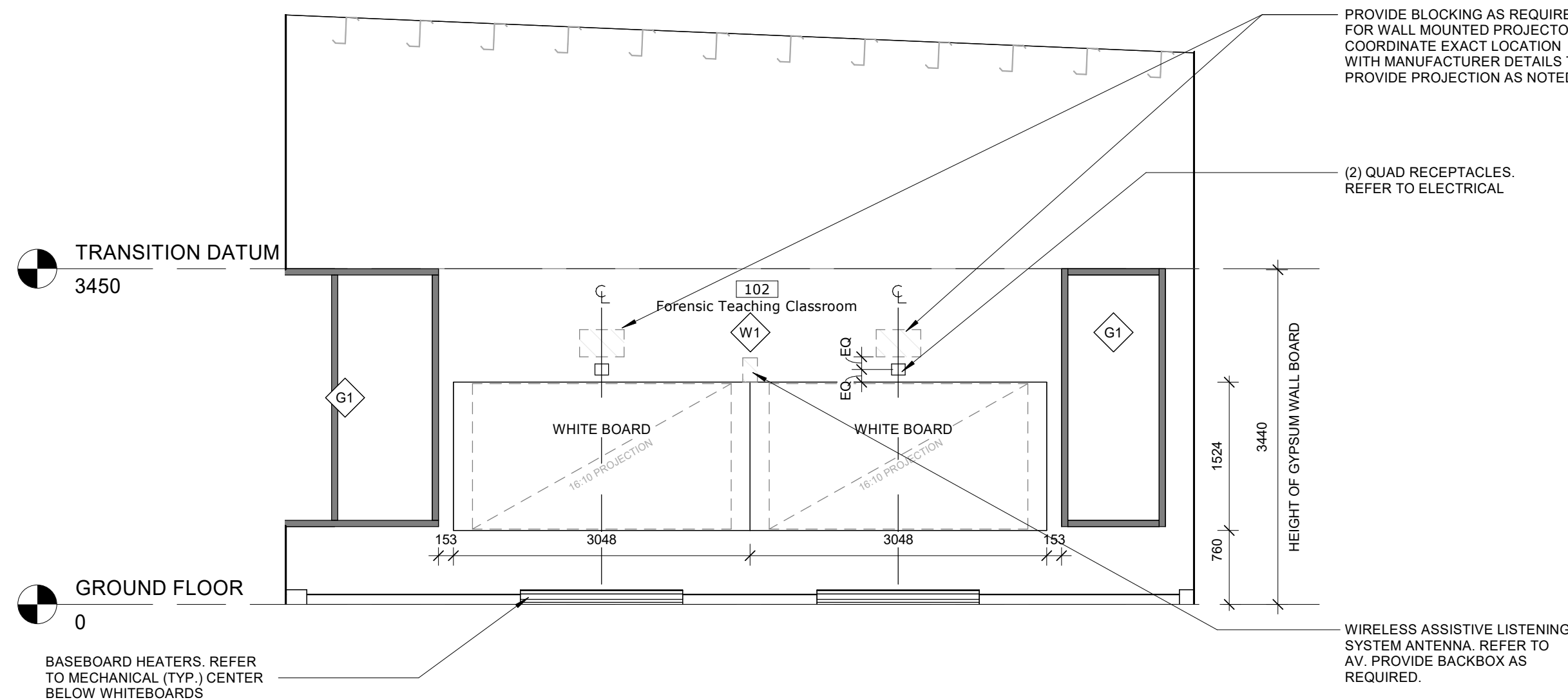
SCALE: 1 : 50	SHEET NO: A701
DATE: 02/22/24	
PROJECT NO: 2301	
DRAWN BY: Author	
CHECKED BY: Checker	



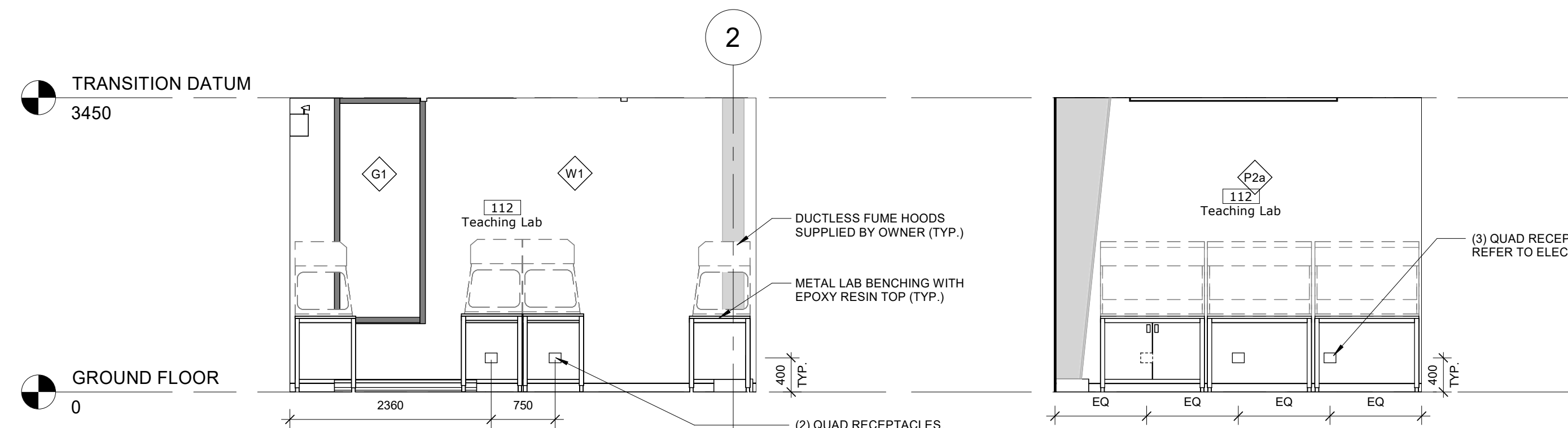
1 INT ELEV - TEACHING CLASSROOM NORTH
A702 Scale: 1 : 50

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

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

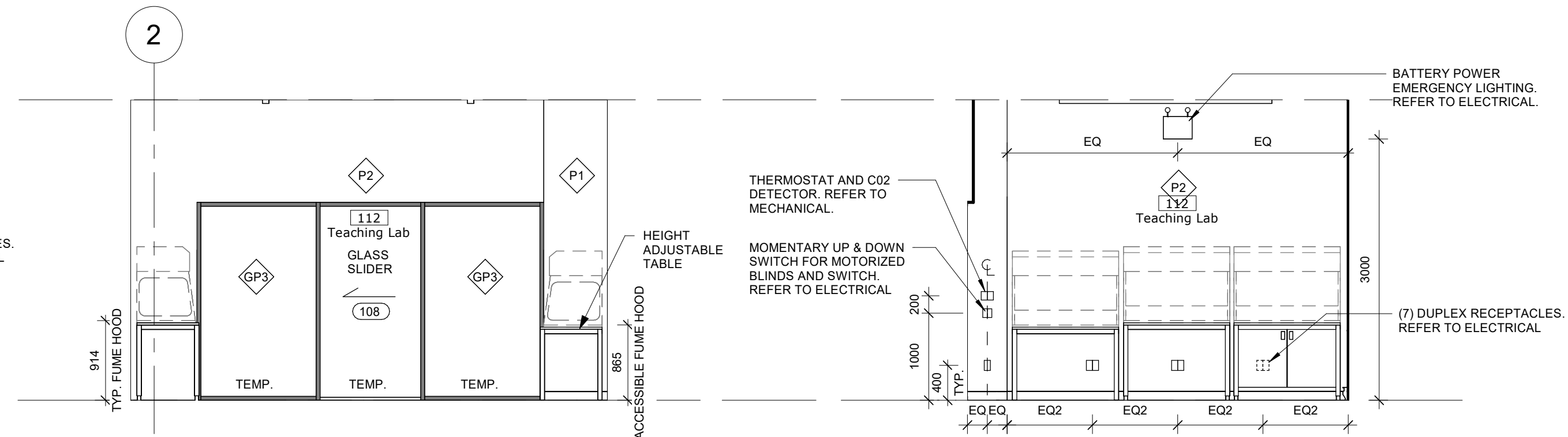


4 INT ELEV - TEACHING CLASSROOM WEST
A702 Scale: 1 : 50



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

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

CLIENT

University of Toronto Mississauga

PROJECT

Pre-Engineered Building

3265 Principal's Road, Mississauga, Ontario

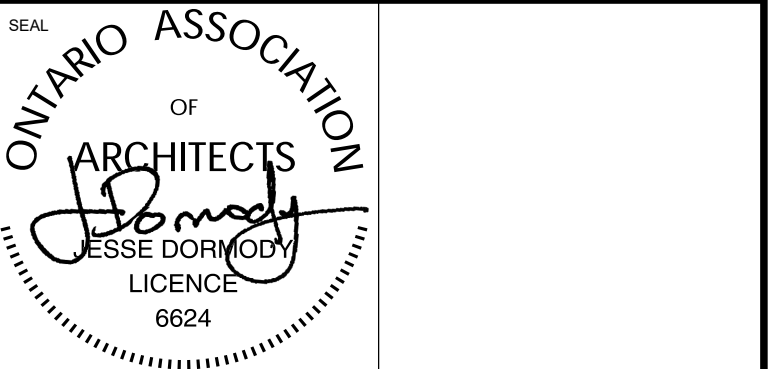
TITLE

INTERIOR ELEVATIONS

architects

Baird Sampson Neuert

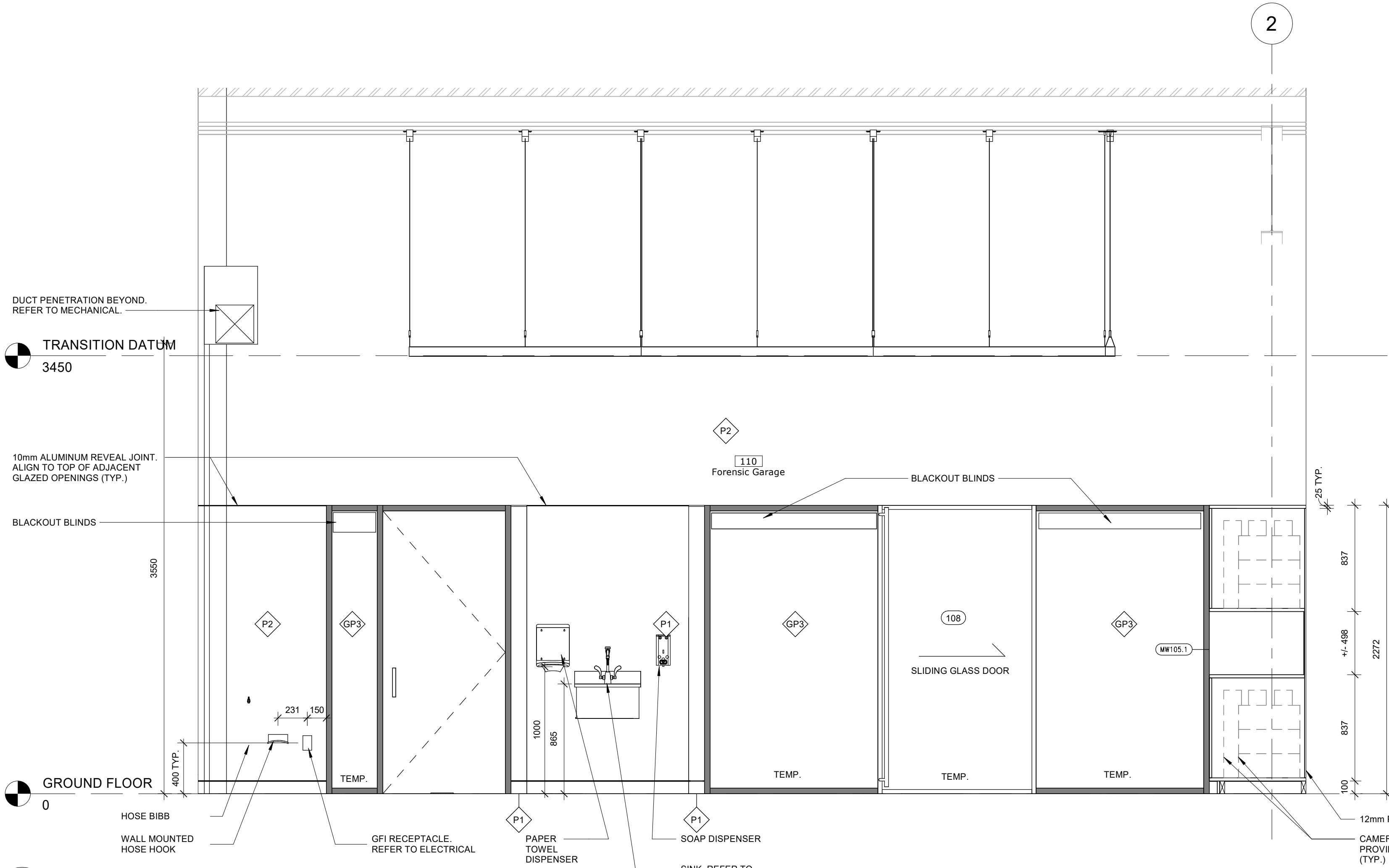
416.363.8877 bsnarchitects.com



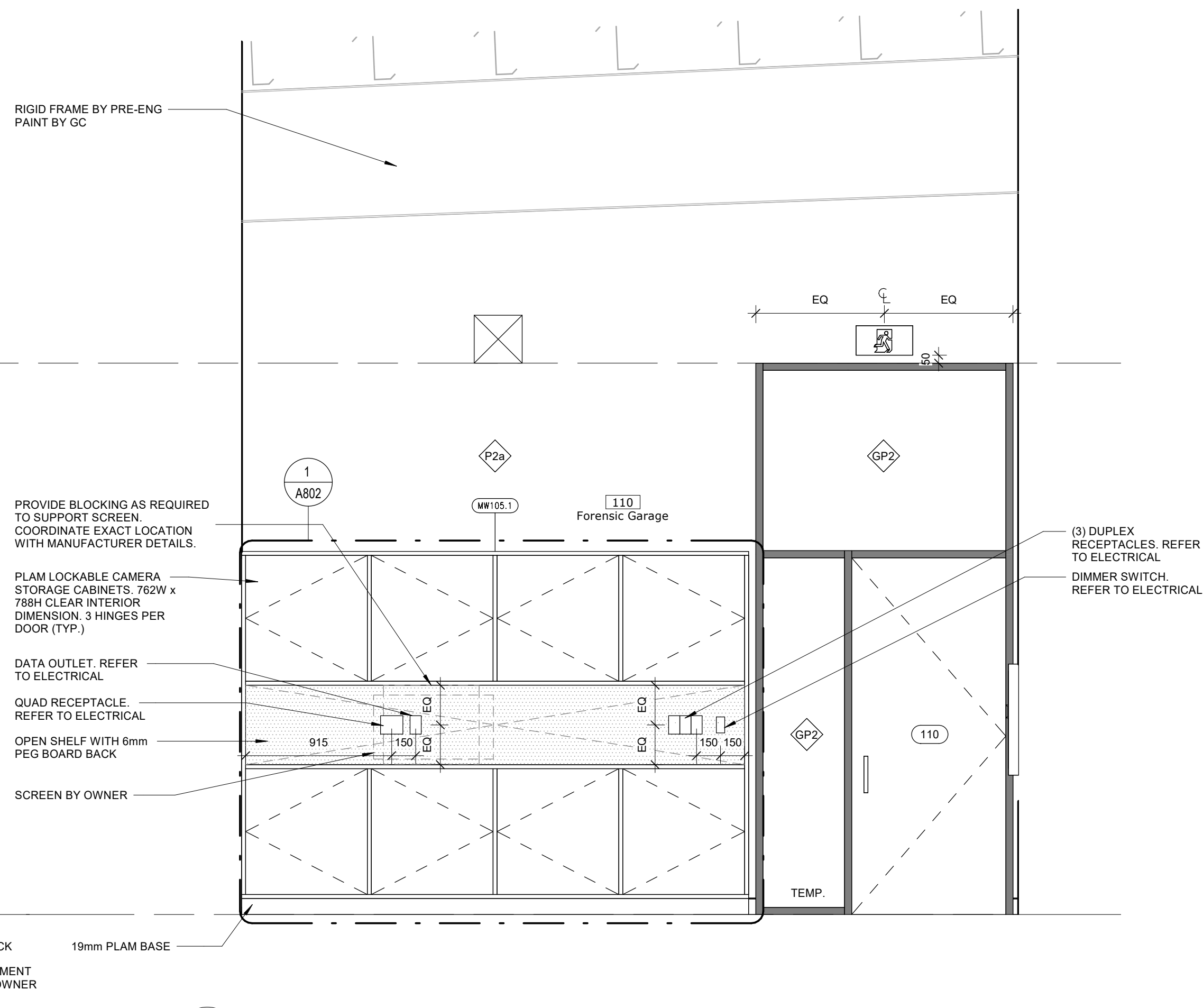
REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS,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

COPYRIGHT © BSN Architects, A Part of WF Group Inc.

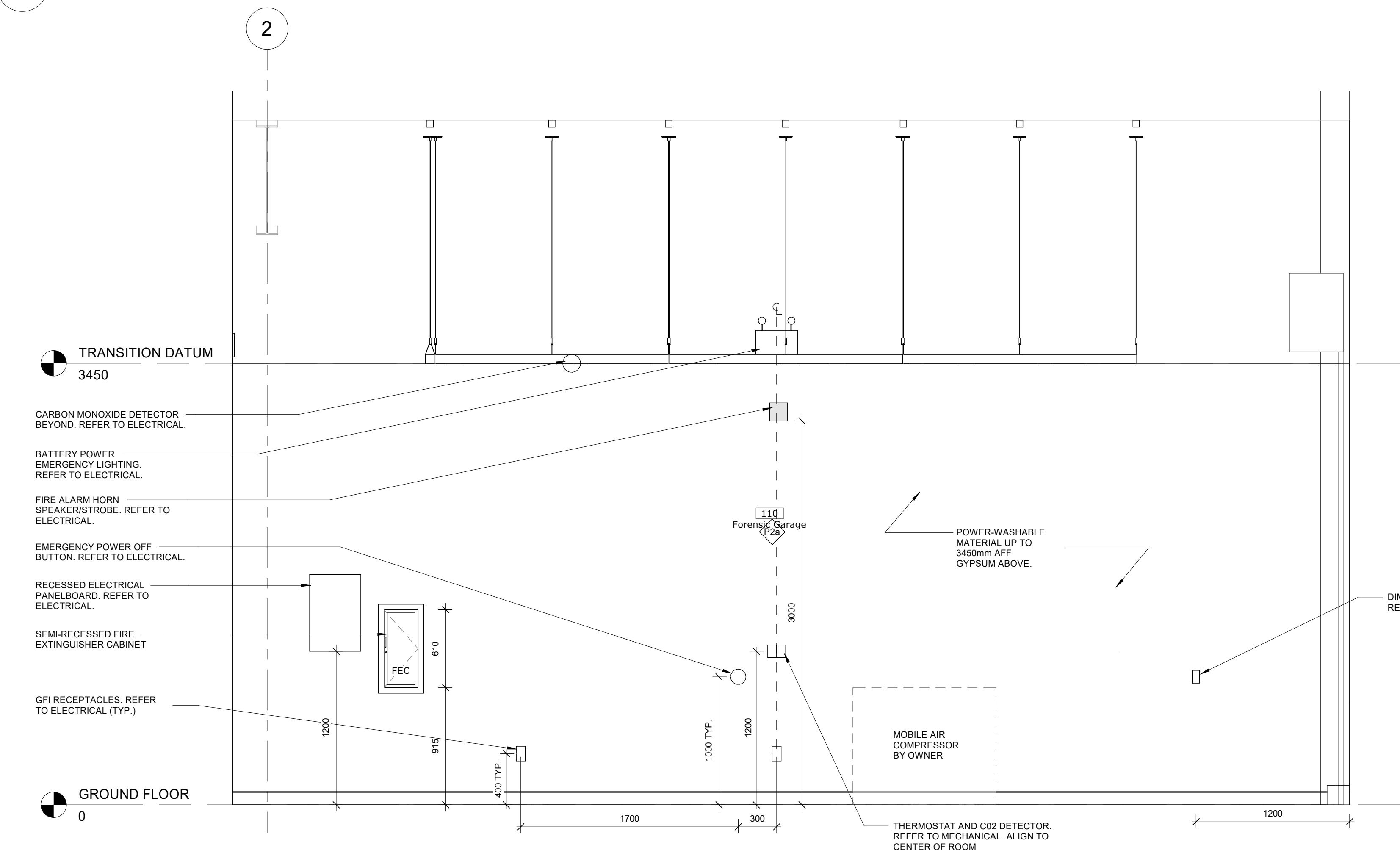
SCALE:	1 : 50	SHEET NO.:	A702
DATE:	02/22/24		
PROJECT NO.:	2301		
DRAWN BY:	Author		
CHECKED BY:	Checker		



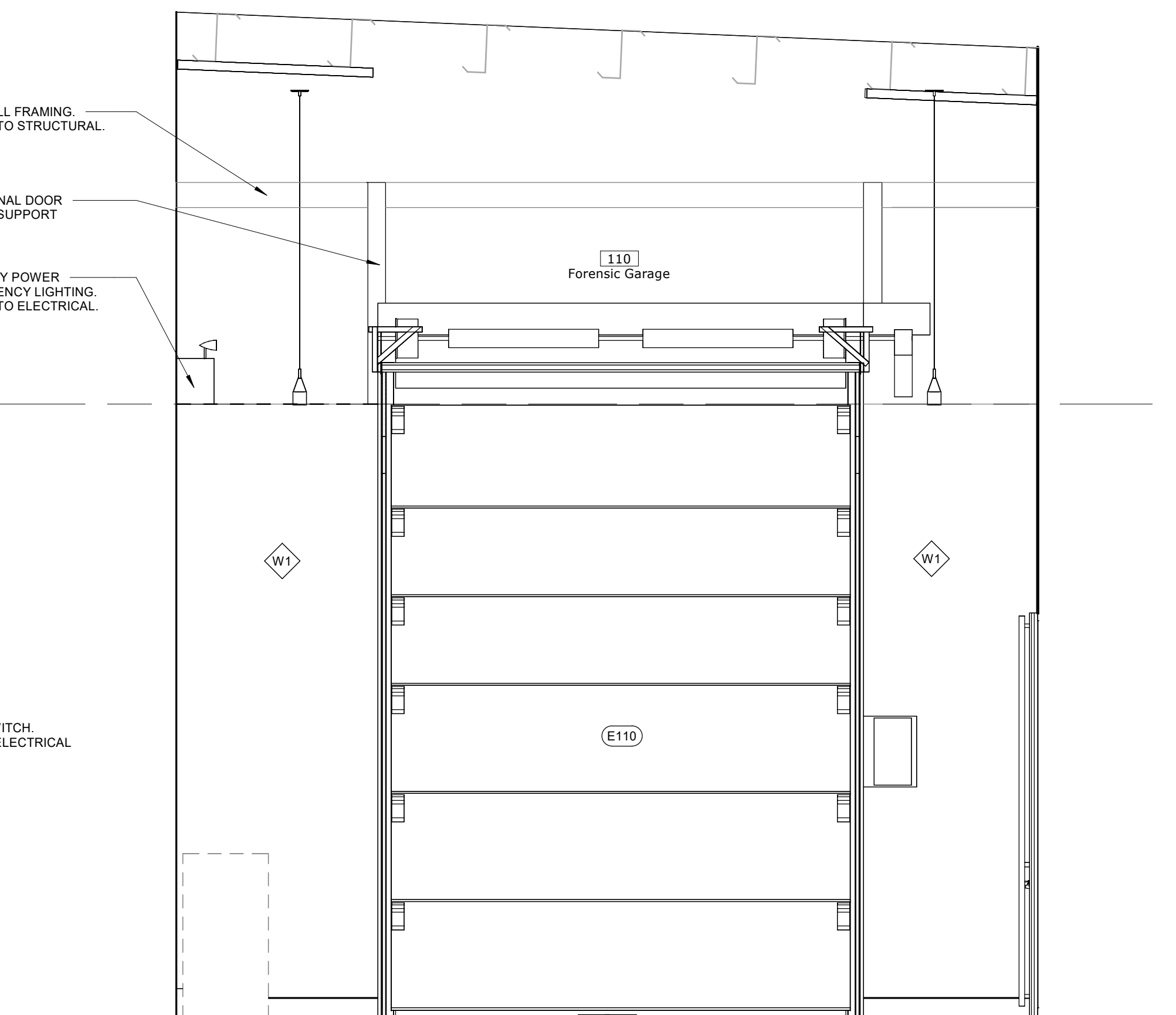
1 INT ELEV - FSC GARAGE NORTH
A703 Scale: 1 : 25



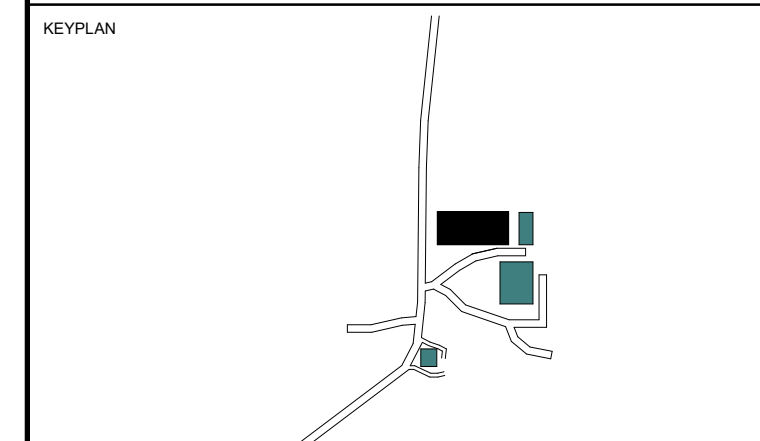
2 INT ELEV - FSC GARAGE EAST
A703 Scale: 1 : 25



3 INT ELEV - FSC GARAGE SOUTH
A703 Scale: 1 : 25



4 INT ELEV - FSC GARAGE WEST
A703 Scale: 1 : 25



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

CLIENT

University of Toronto Mississauga

PROJECT

Pre-Engineered Building

3265 Principal's Road, Mississauga, Ontario

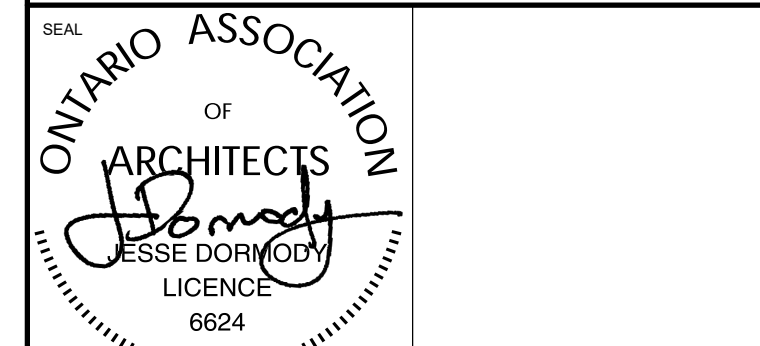
TITLE

INTERIOR ELEVATIONS

architects

Baird Sampson Neuert

416.363.8877 bsnarchitects.com

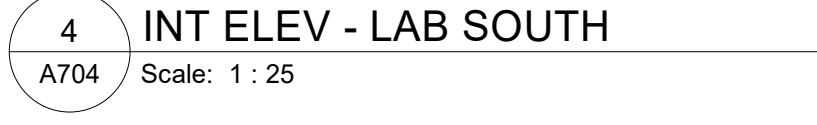
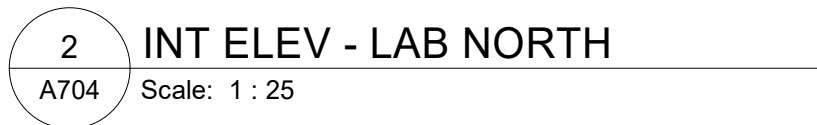


REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS,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

COPYRIGHT © BSN Architects, A Part of WF Group Inc.

SCALE:	1 : 25	SHEET NO.:
DATE:	02/22/24	
PROJECT NO.:	2301	
DRAWN BY:	Author	
CHECKED BY:	Checker	

A703



No.	ISSUANCE	DATE
1	Issued for Design Development Costing	2024-03-21
2	Issued for Tender	2024-11-21

CLIENT
University of Toronto Mississauga

PROJECT

Pre-Engineered Building

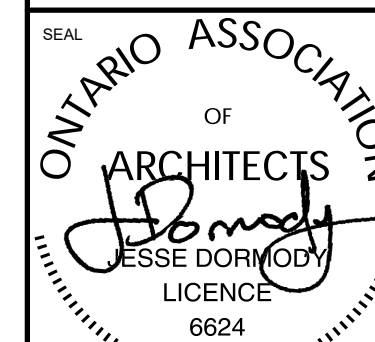
3265 Principal's Road, Mississauga, Ontario

TITLE

INTERIOR ELEVATIONS

Baird Sampson Neuert architects

416.363.8877 bsnarchitects.com

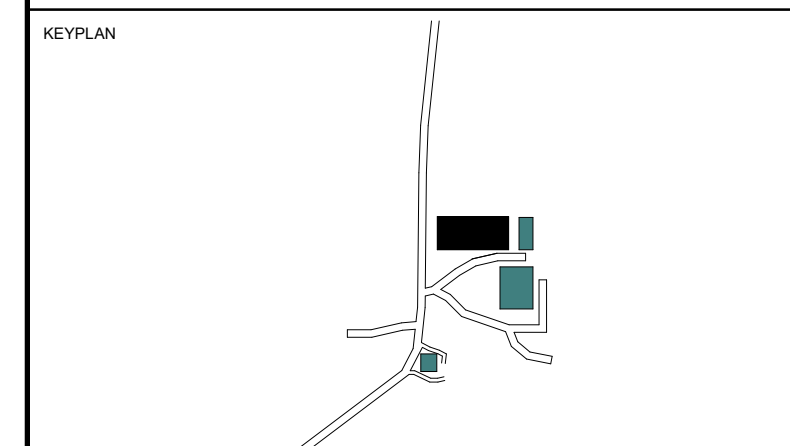
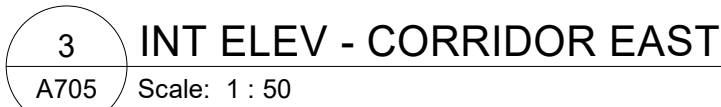
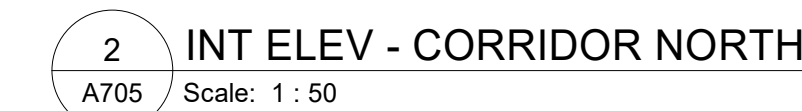
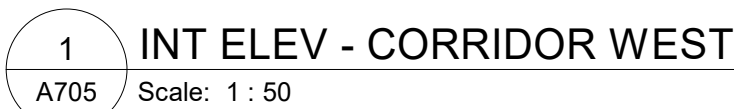


REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS,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

COPYRIGHT © BSN Architects, A Part of WF Group Inc.

SCALE :	1 : 25	SHEET NO : A704
DATE :	02/13/24	
PROJECT NO :	2301	
DRAWN BY :	Author	
CHECKED BY :	Checker	

A704



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

CLIENT
University of Toronto Mississauga

PROJECT

Pre-Engineered Building

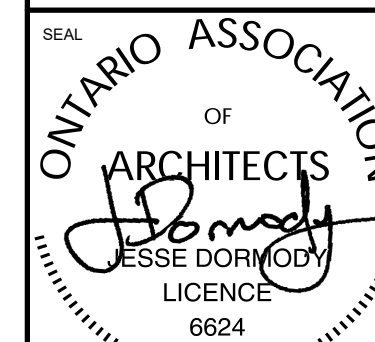
3265 Principal's Road, Mississauga, Ontario

TITLE

INTERIOR ELEVATIONS

architects
Baird Sampson Neuert

416.363.8877 bsnarchitects.com

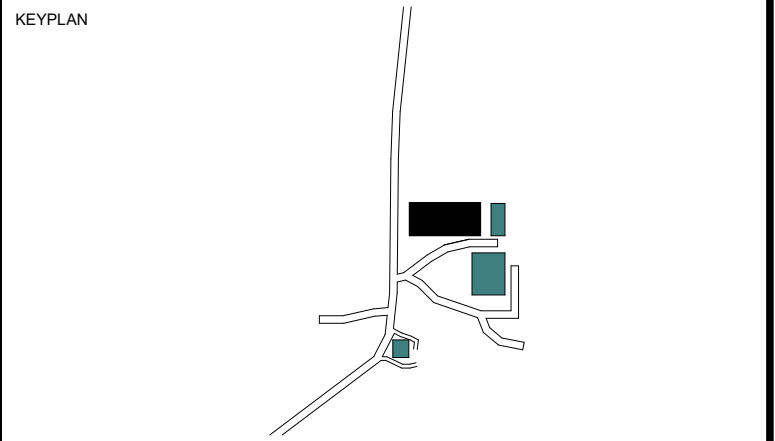
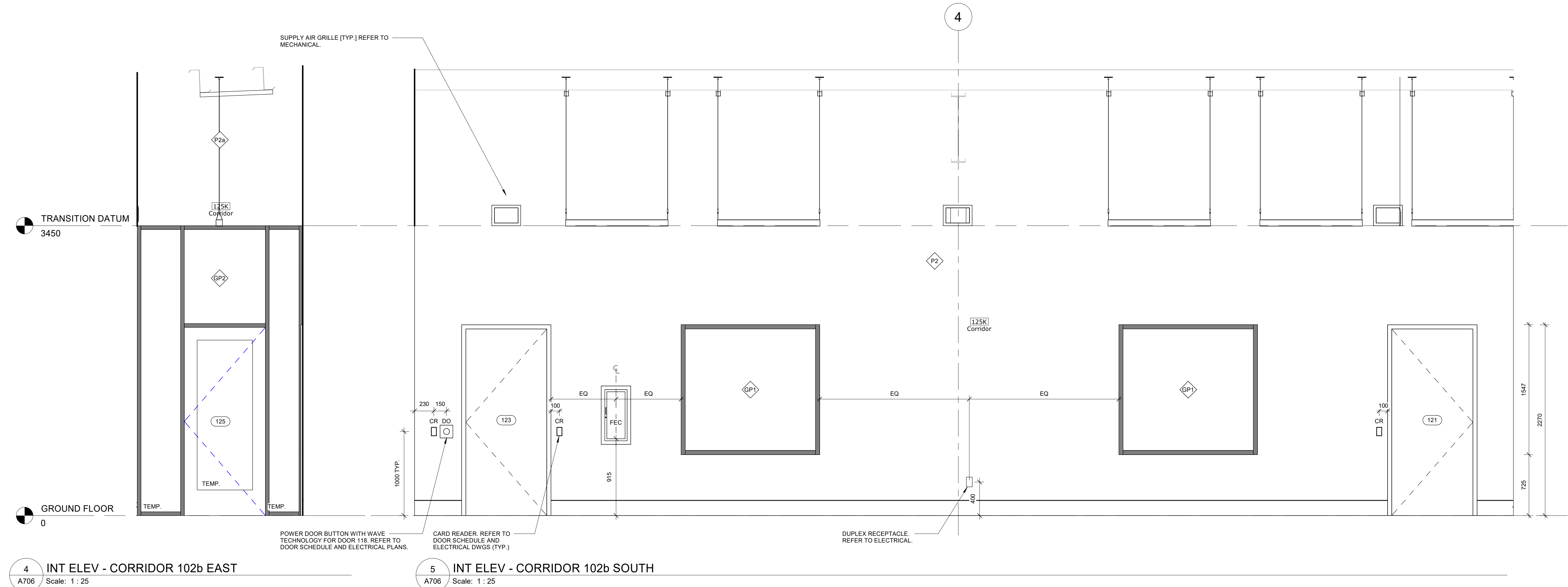
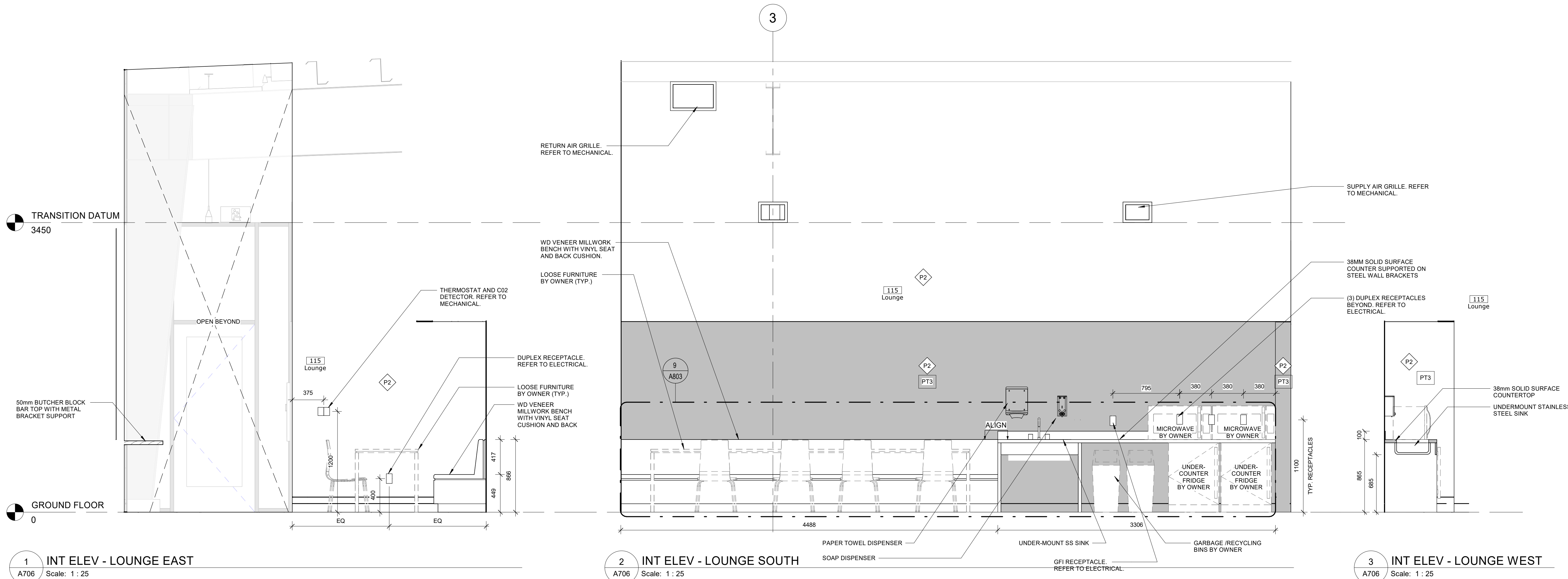


REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSM
ARCHITECTS, A PART OF WF GROUP, IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND
BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY
VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSM
ARCHITECTS,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

COPYRIGHT © BSN Architects. A Part of WF Group Inc.

SCALE :	1 : 50	SHEET NO : A70
DATE :	02/13/24	
PROJECT NO :	2301	
DRAWN BY :	Author	
CHECKED BY :	Checker	

A705



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

CLIENT

University of Toronto Mississauga

PROJECT

Pre-Engineered Building

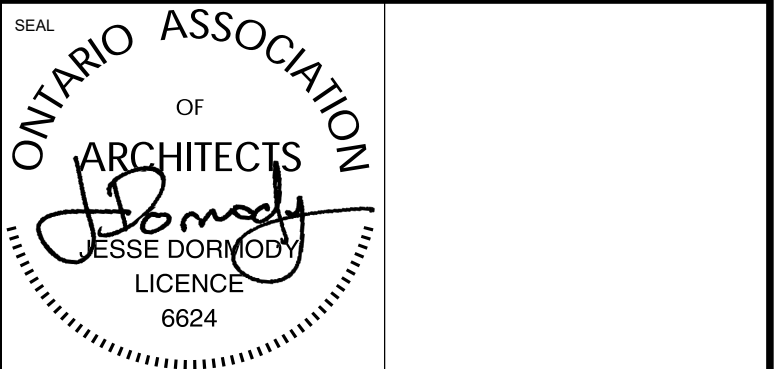
3265 Principal's Road, Mississauga, Ontario

TITLE

INTERIOR ELEVATIONS

architects
Baird Sampson Neuert

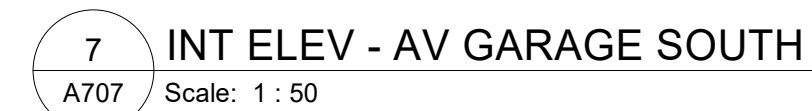
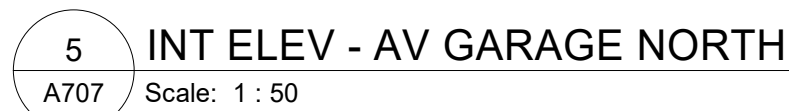
416.363.8877 bsnarchitects.com



REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, 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, A PART OF WF GROUP. DO NOT SCALE THIS DRAWING.

COPYRIGHT © BSN Architects, A Part of WF Group Inc.

SCALE: 1 : 25	SHEET NO: A706
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

CLIENT

University of Toronto Mississauga

PROJECT	Pre-Engineered Building
---------	-------------------------

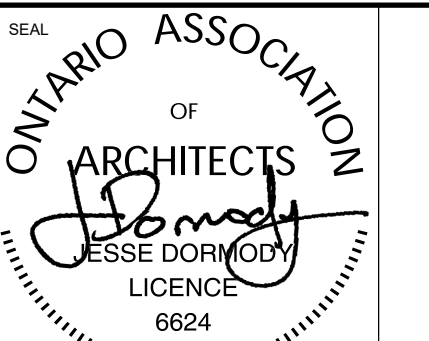
3265 Principal's Road, Mississauga, Ontario

TITLE

INTERIOR ELEVATIONS

Baird Sampson Neuert architects

416.363.8877 bsnarchitects.com



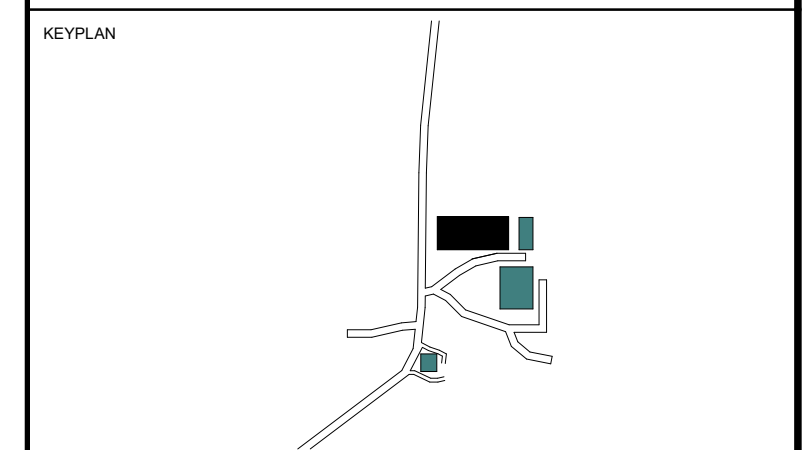
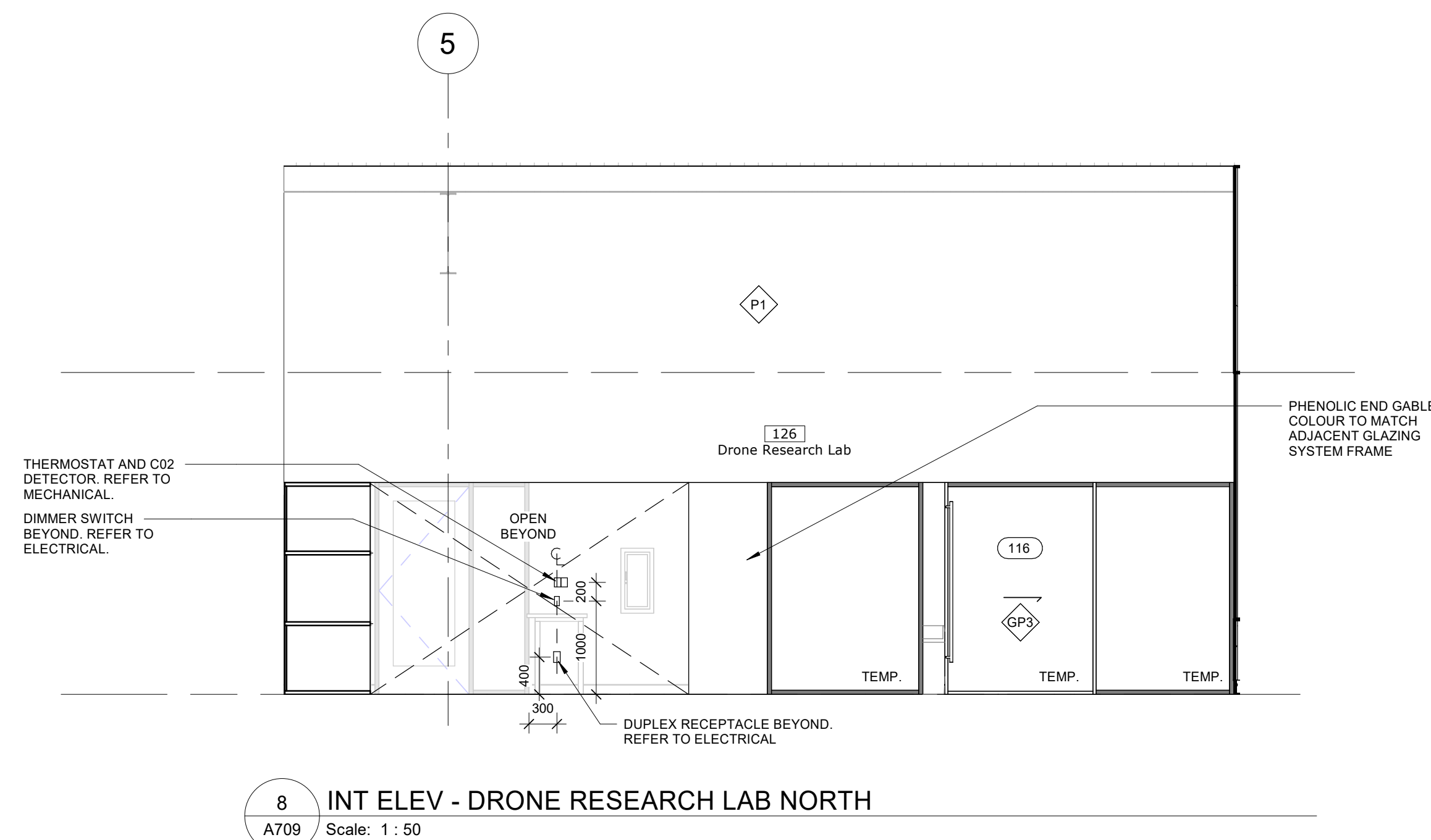
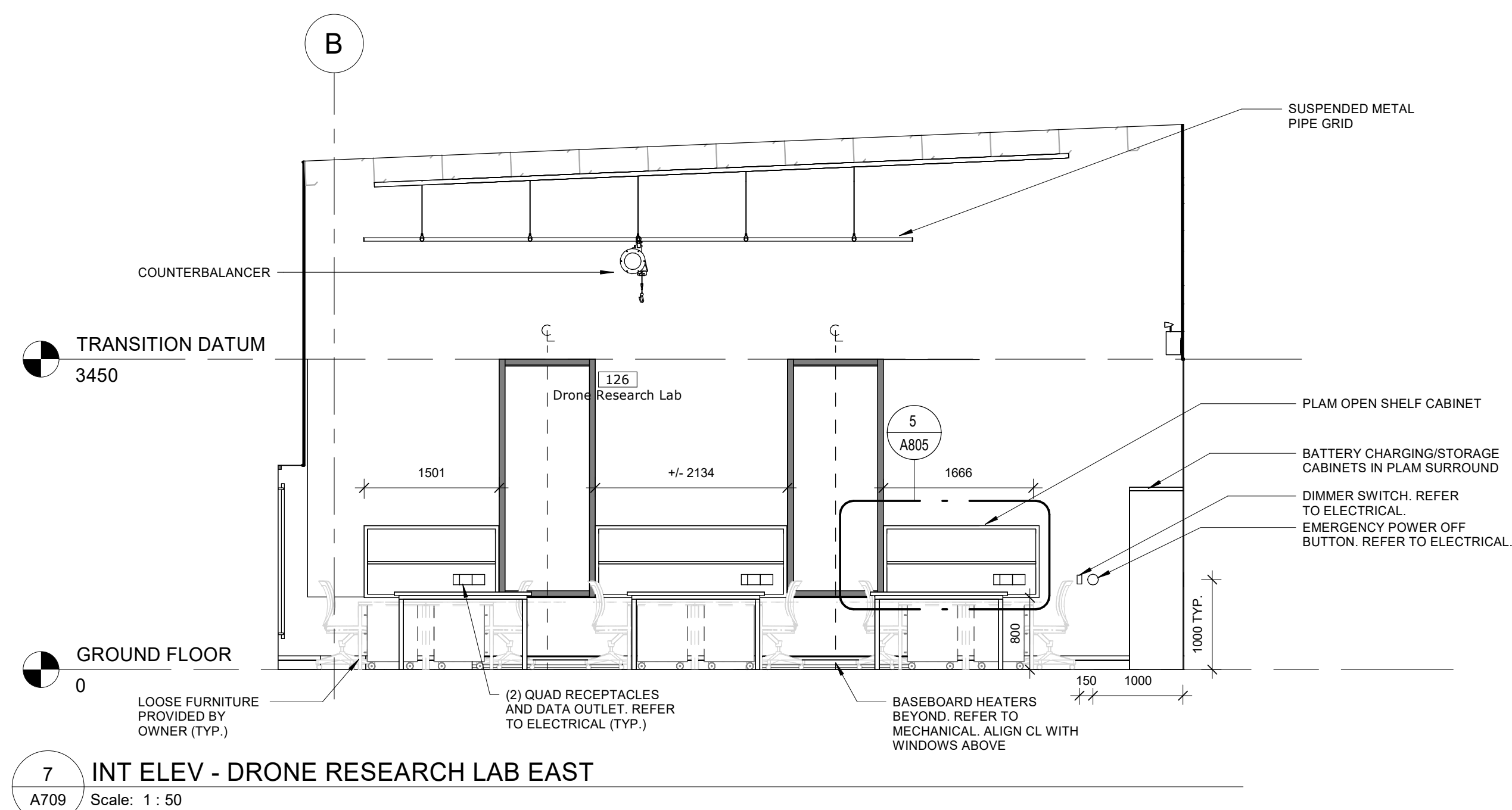
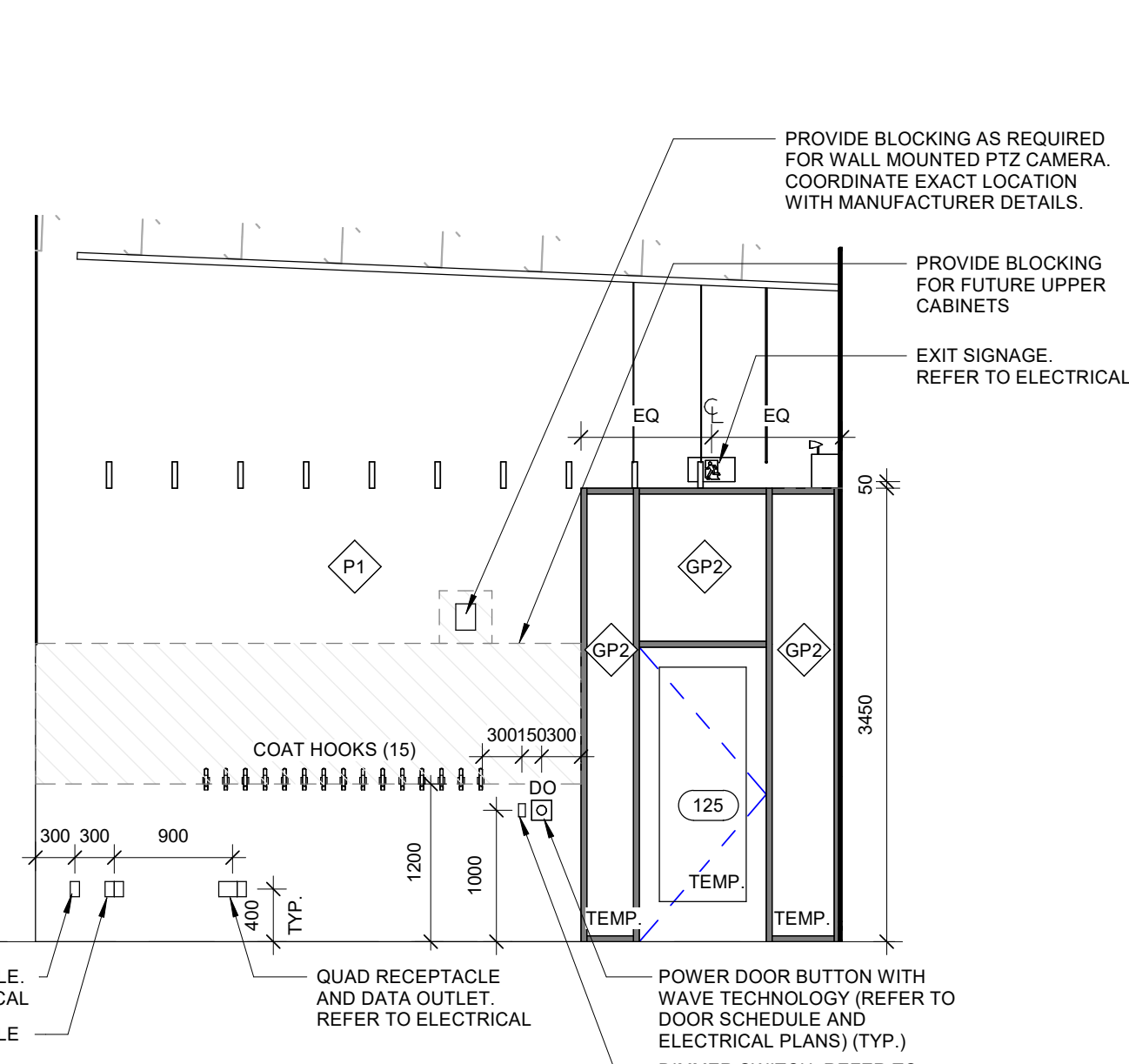
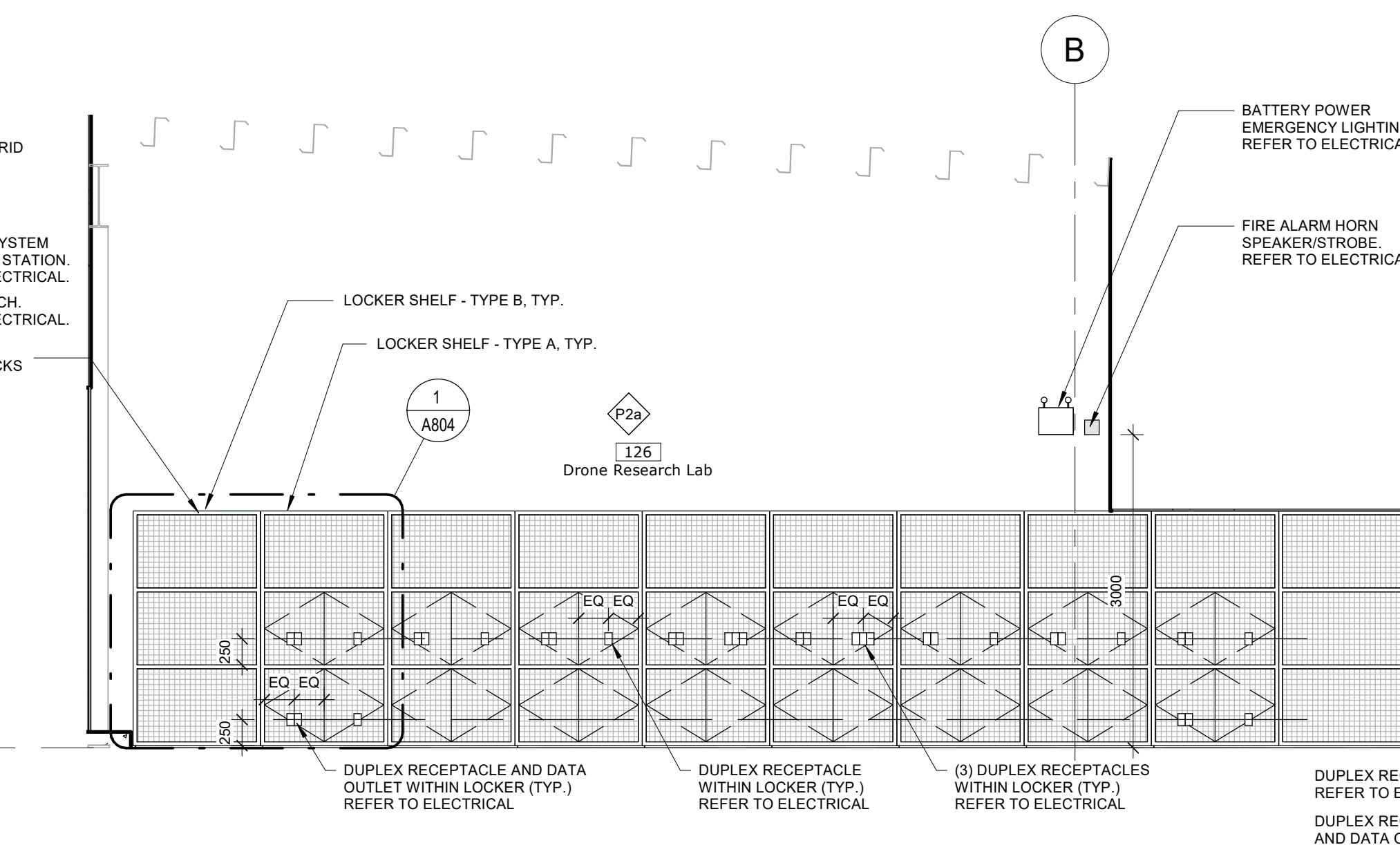
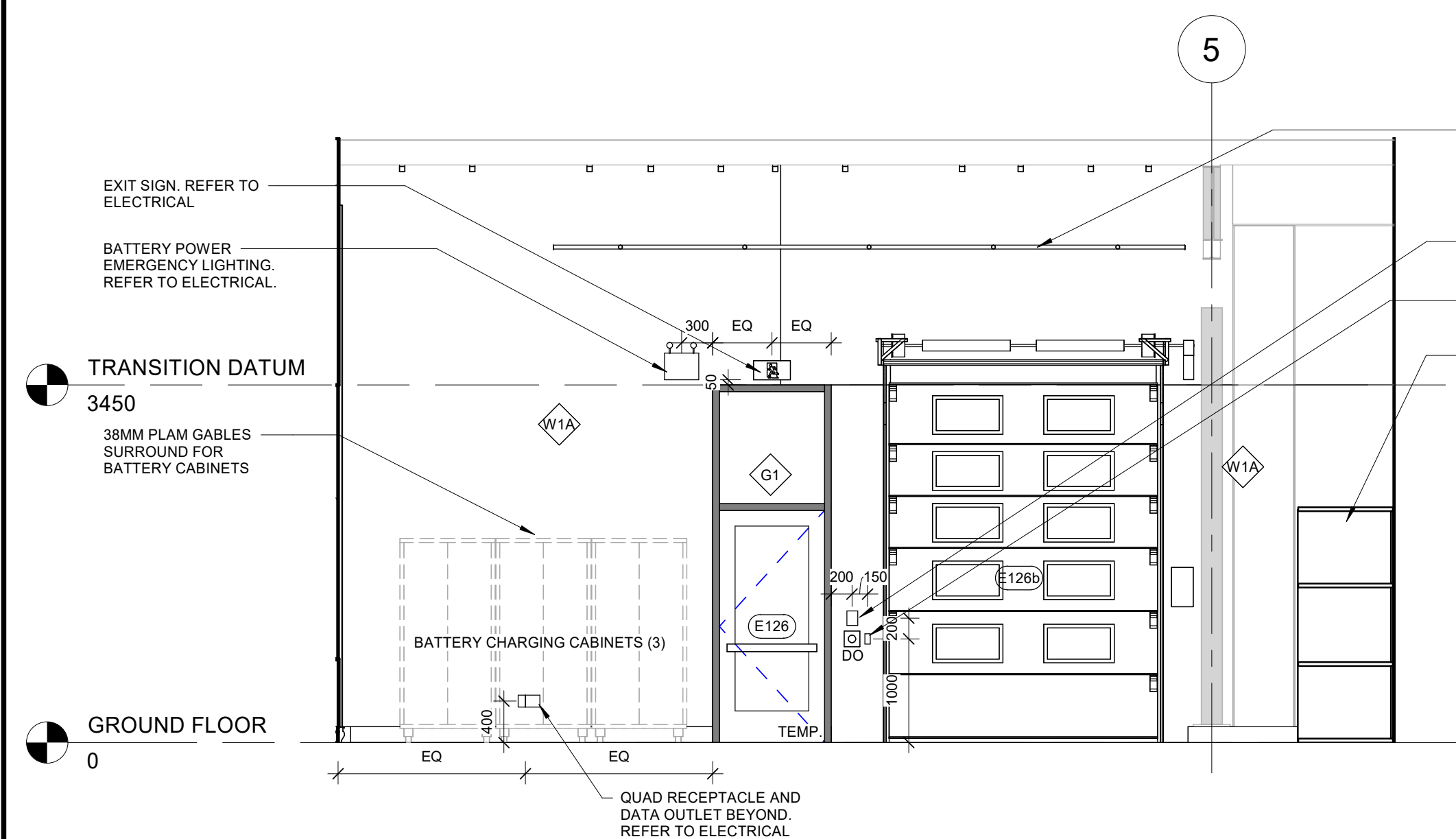
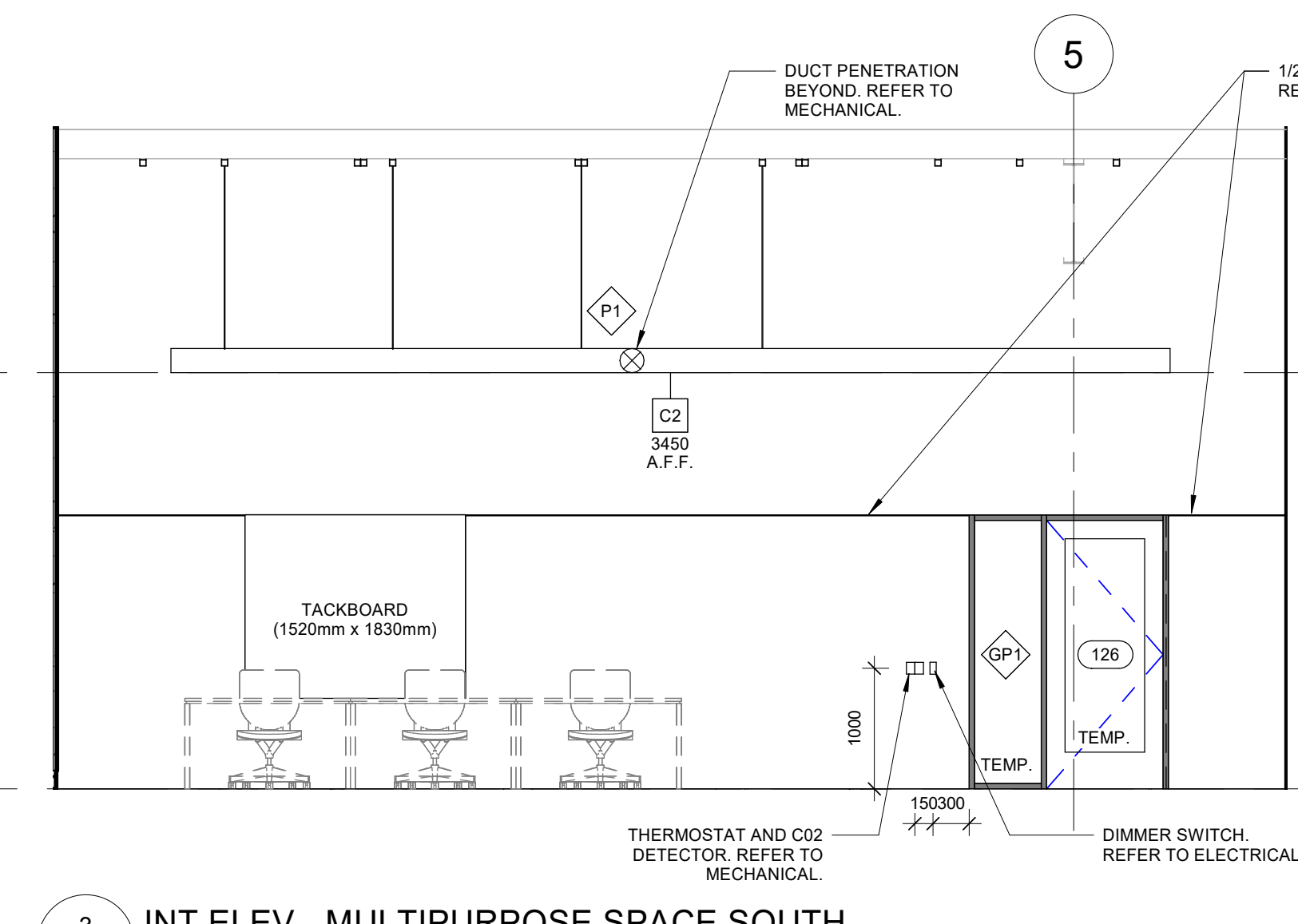
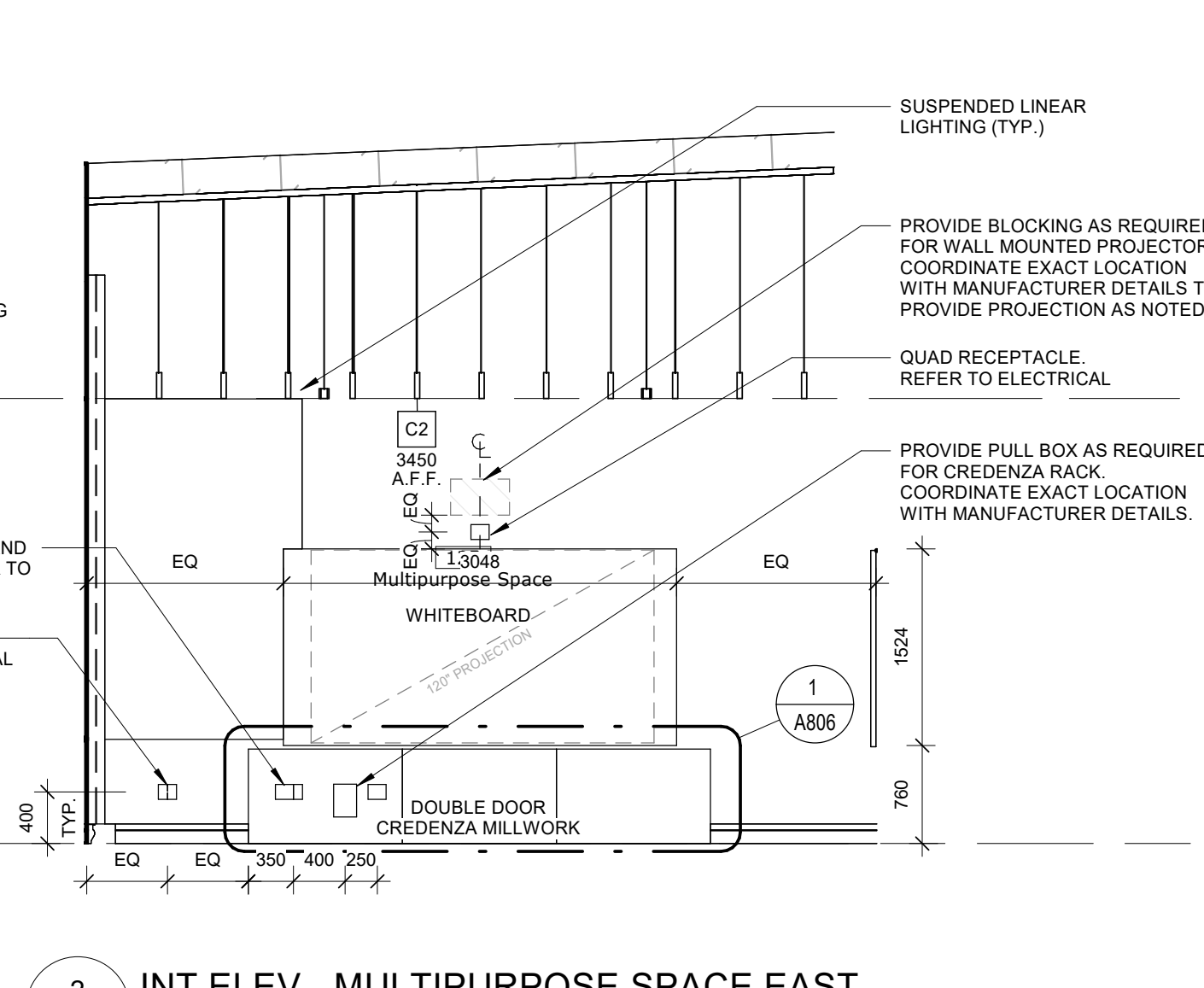
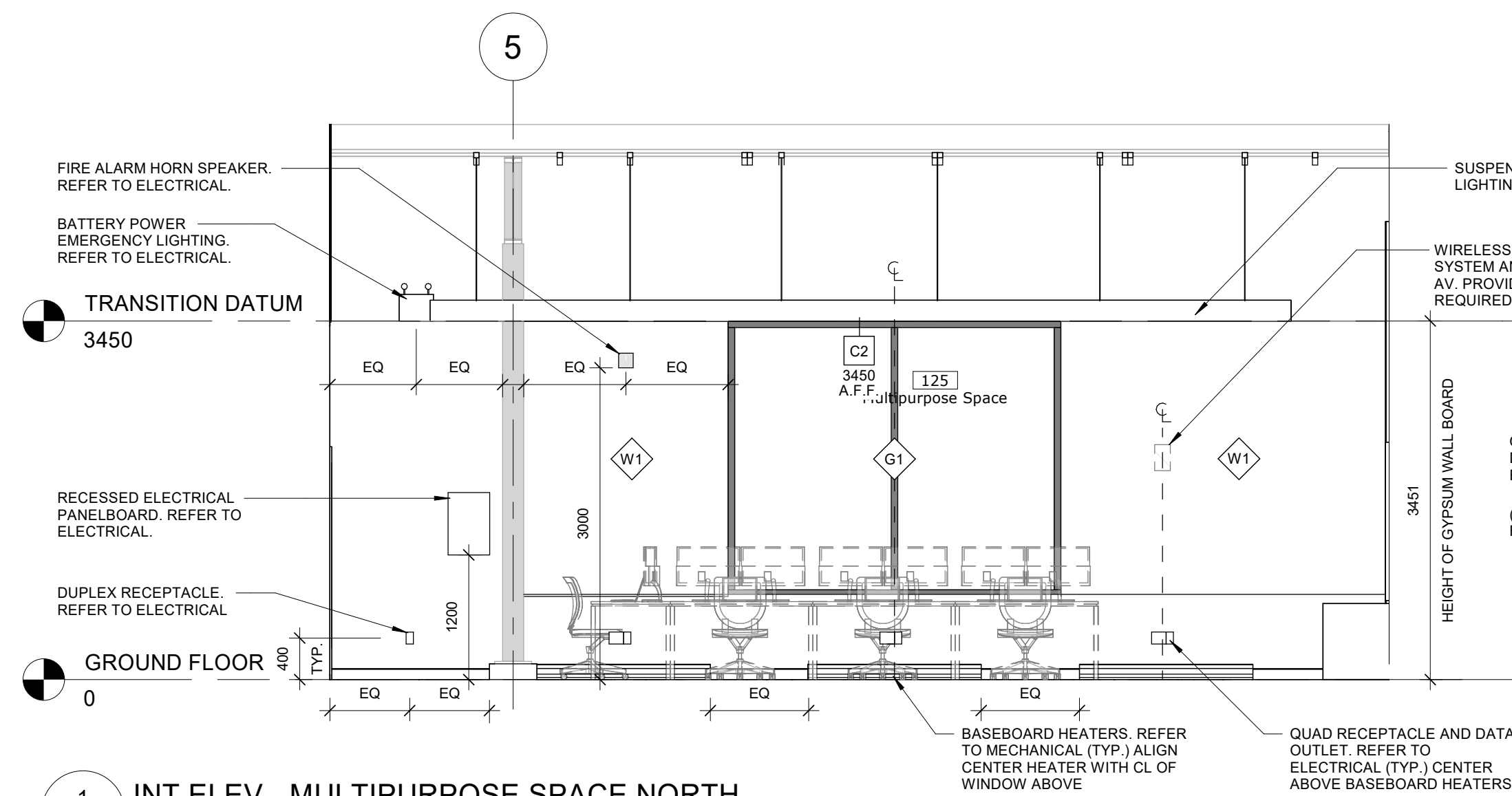
REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS,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

COPYRIGHT © BSN Architects, A Part of WF Group Inc.

SCALE :	1 : 50	SHEET NO : A707
DATE :	02/22/24	
PROJECT NO :	2301	
DRAWN BY :	Author	
CHECKED BY :	Checker	

A707

SCALE :	1 : 50	SHEET NO : <div style="font-size: 2em; font-weight: bold; text-align: center;">A708</div>
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

CLIENT
University of Toronto Mississauga

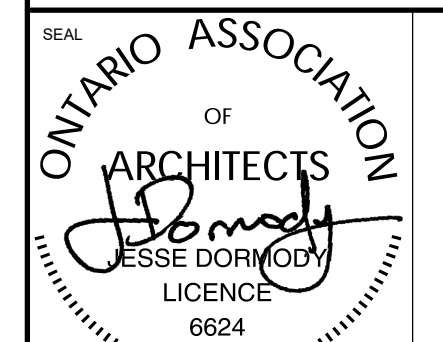
PROJECT
Pre-Engineered Building

3265 Principal's Road, Mississauga, Ontario

INTERIOR ELEVATIONS

Baird Sampson Neuert architects

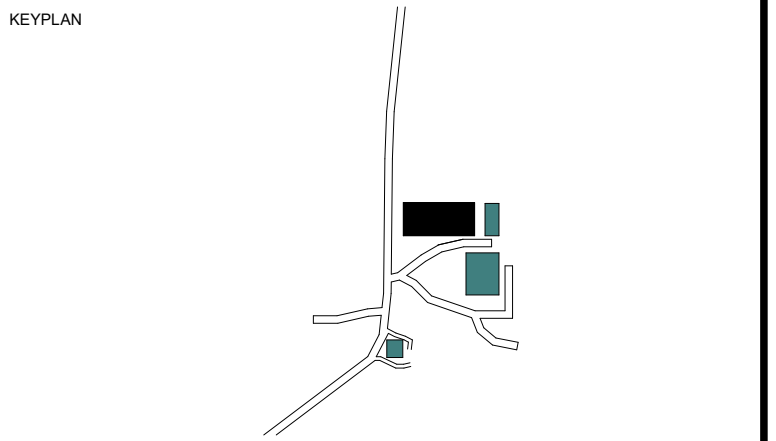
416.363.8877 bsnarchitects.com



REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, 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, A PART OF WF GROUP. - DO NOT SCALE THIS DRAWING -

COPYRIGHT © BSN Architects, A Part of WF Group Inc.

SCALE :	1 : 50	SHEET NO : <div style="font-size: 2em; font-weight: bold; text-align: center;">A709</div>
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

CLIENT

University of Toronto Mississauga

PROJECT

Pre-Engineered Building

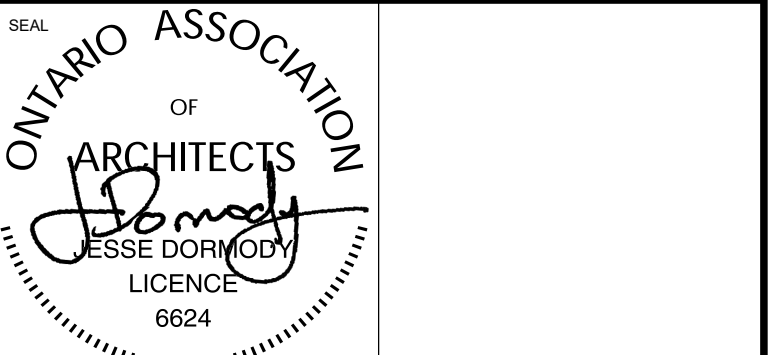
3265 Principal's Road, Mississauga, Ontario

TITLE

INTERIOR ELEVATIONS

architects
Baird Sampson Neurt

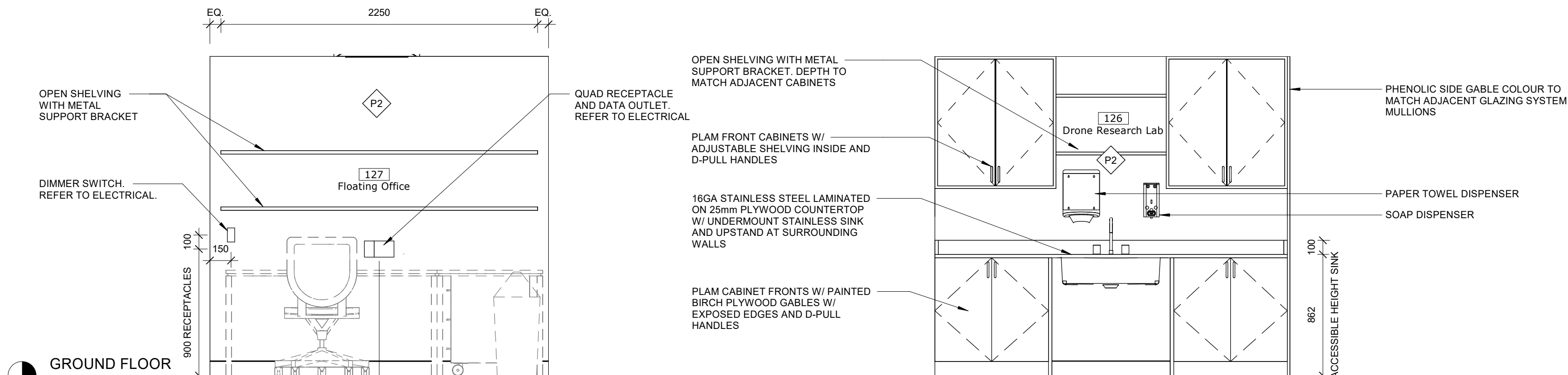
416.363.8877 bsnarchitects.com



REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, 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, A PART OF WF GROUP. DO NOT SCALE THIS DRAWING.

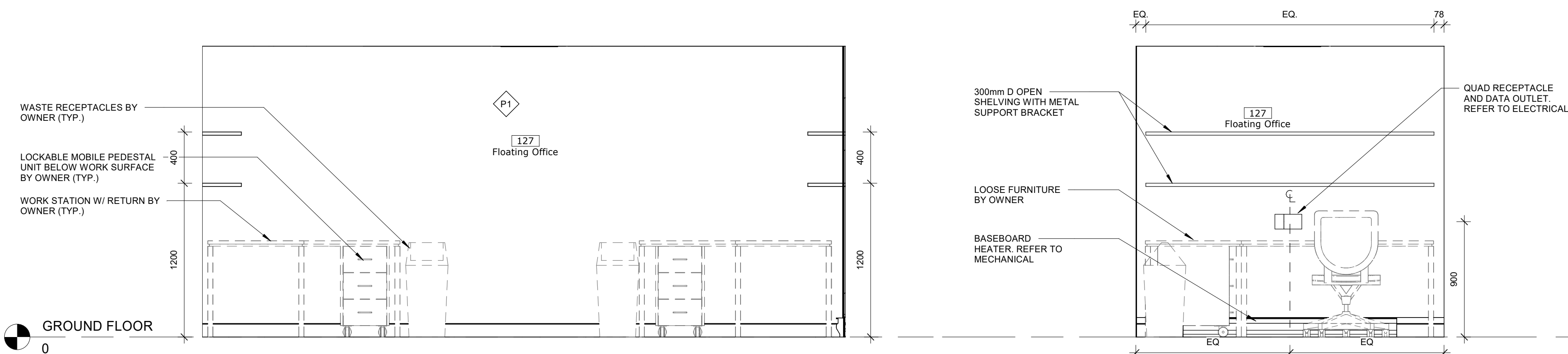
COPYRIGHT © BSN Architects, A Part of WF Group Inc.

SCALE: 1 : 25	SHEET NO:
DATE: 02/13/24	A710
PROJECT NO: 2301	
DRAWN BY: Author	
CHECKED BY: Checker	



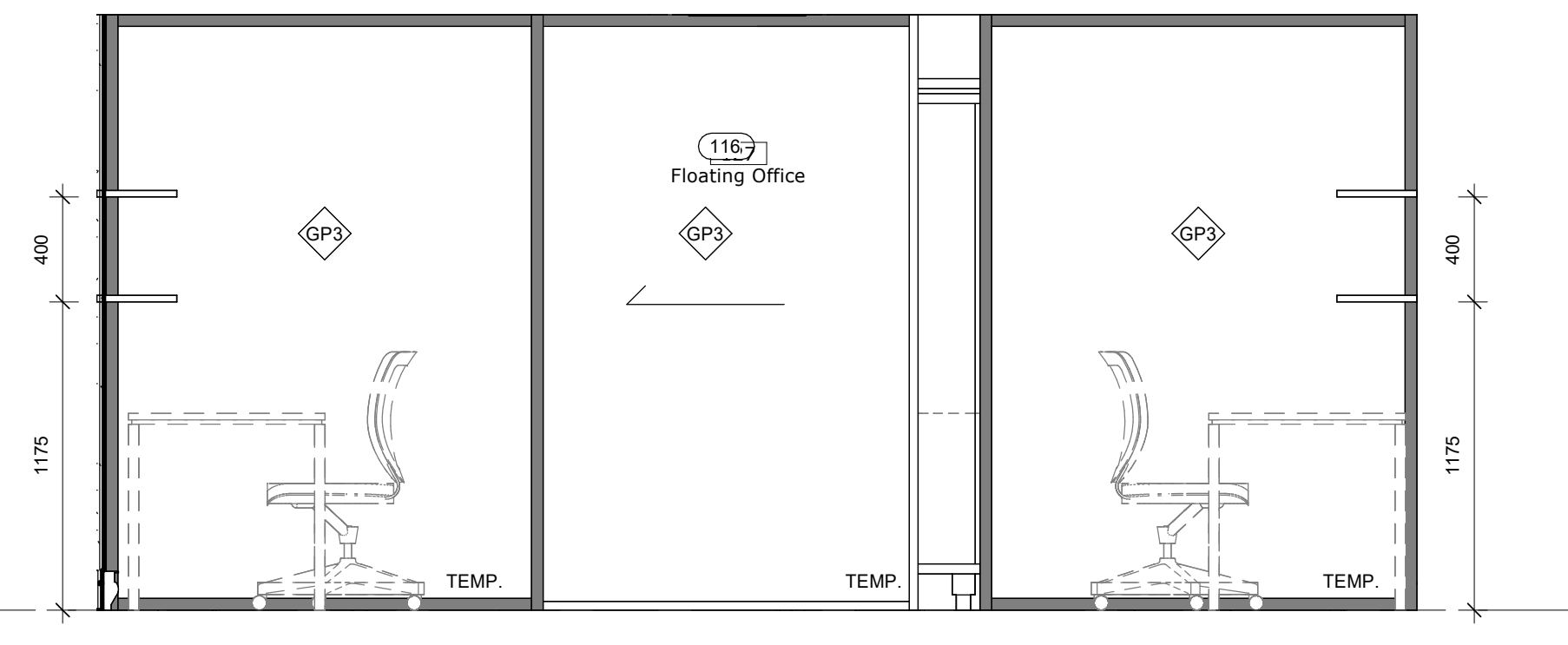
1 INT ELEV - FLOATING OFFICE WEST
A710 Scale: 1 : 25

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

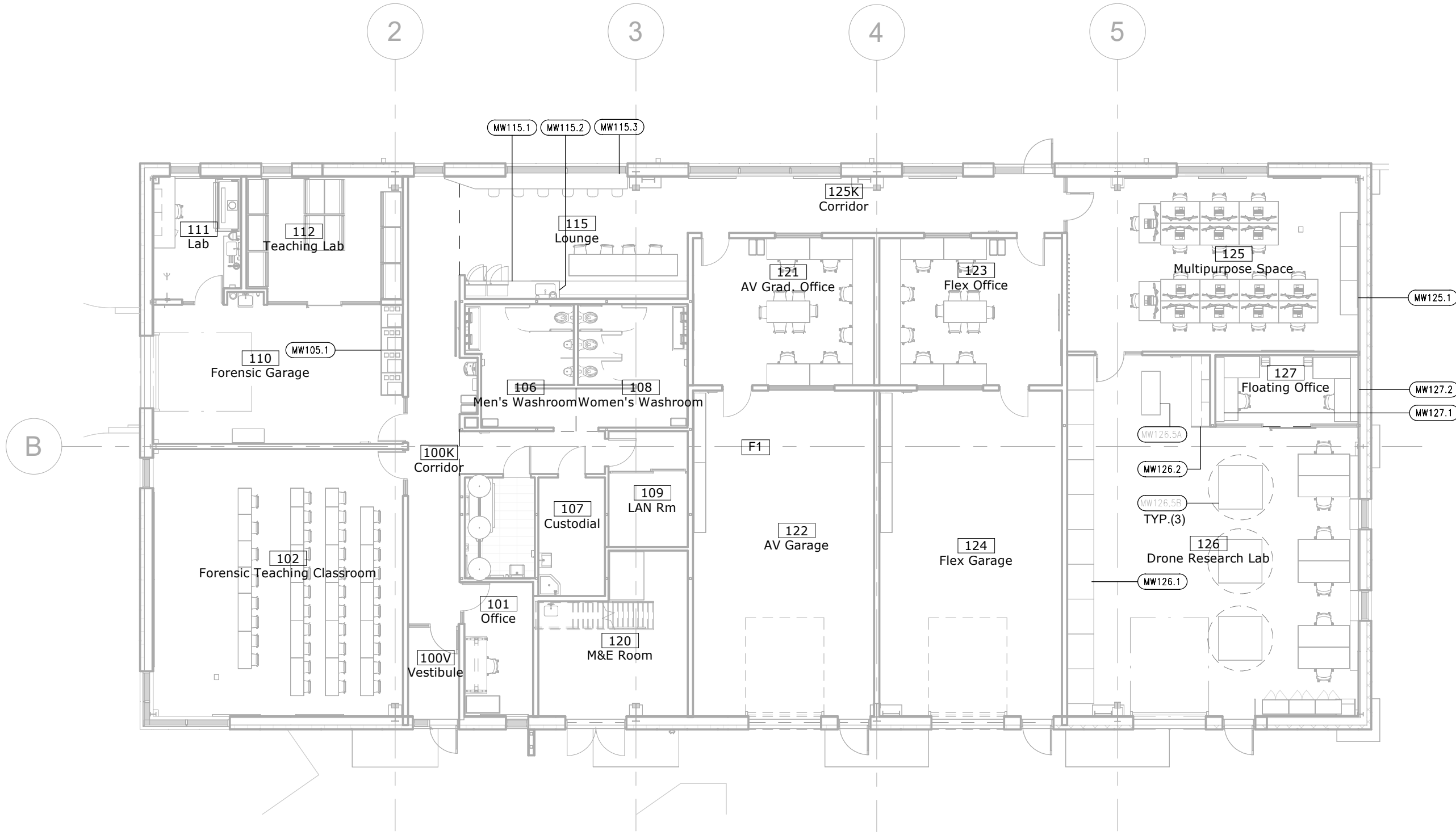


3 INT ELEV - FLOATING OFFICE NORTH
A710 Scale: 1 : 25

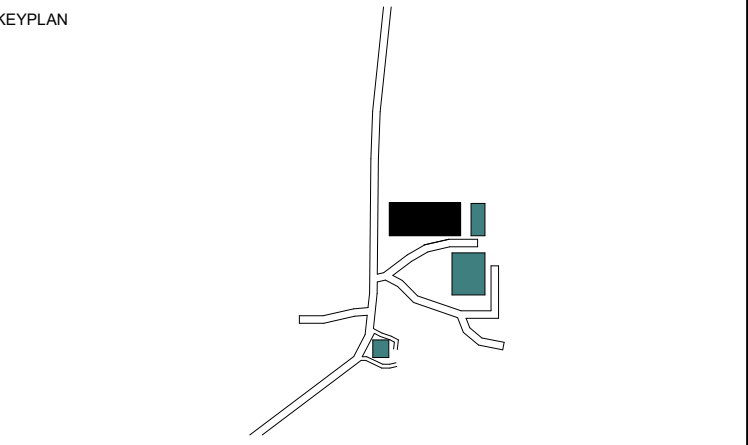
4 INT ELEV - FLOATING OFFICE EAST
A710 Scale: 1 : 25



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

CLIENT

University of Toronto Mississauga

PROJECT

Pre-Engineered Building

3265 Principal's Road, Mississauga, Ontario

TITLE

MILLWORK SCHEDULE KEY
PLAN

architects
Baird Sampson Neuert

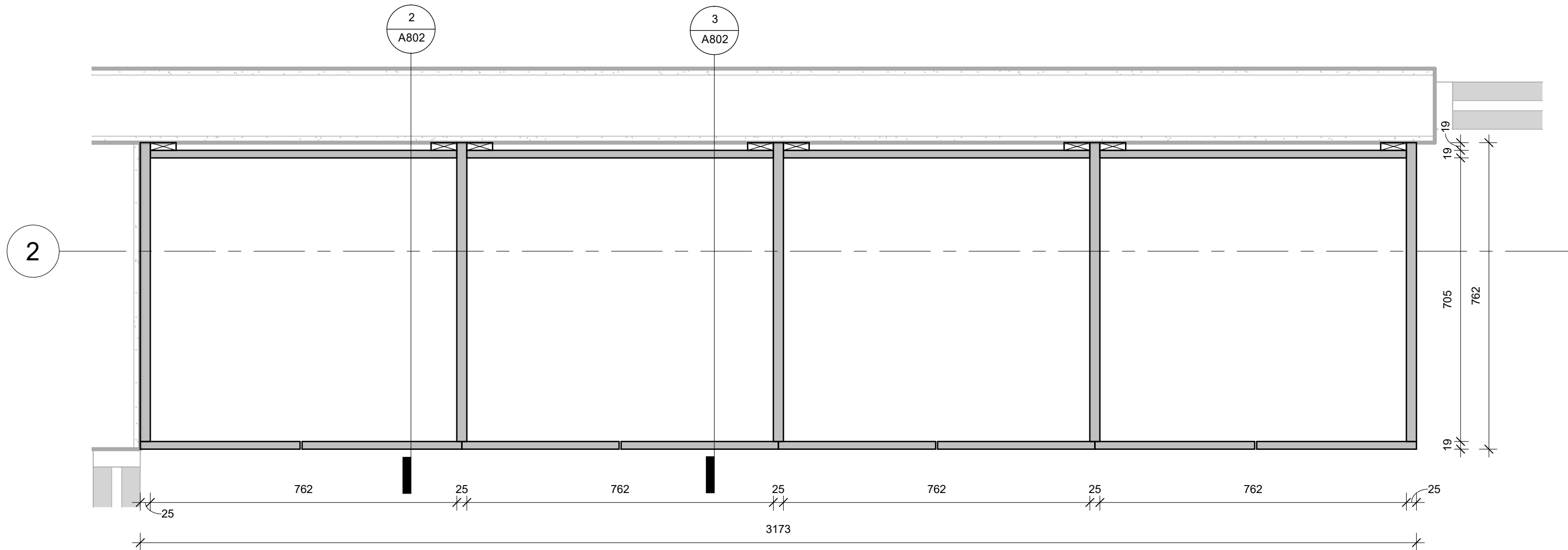
416.363.8877 bsnarchitects.com



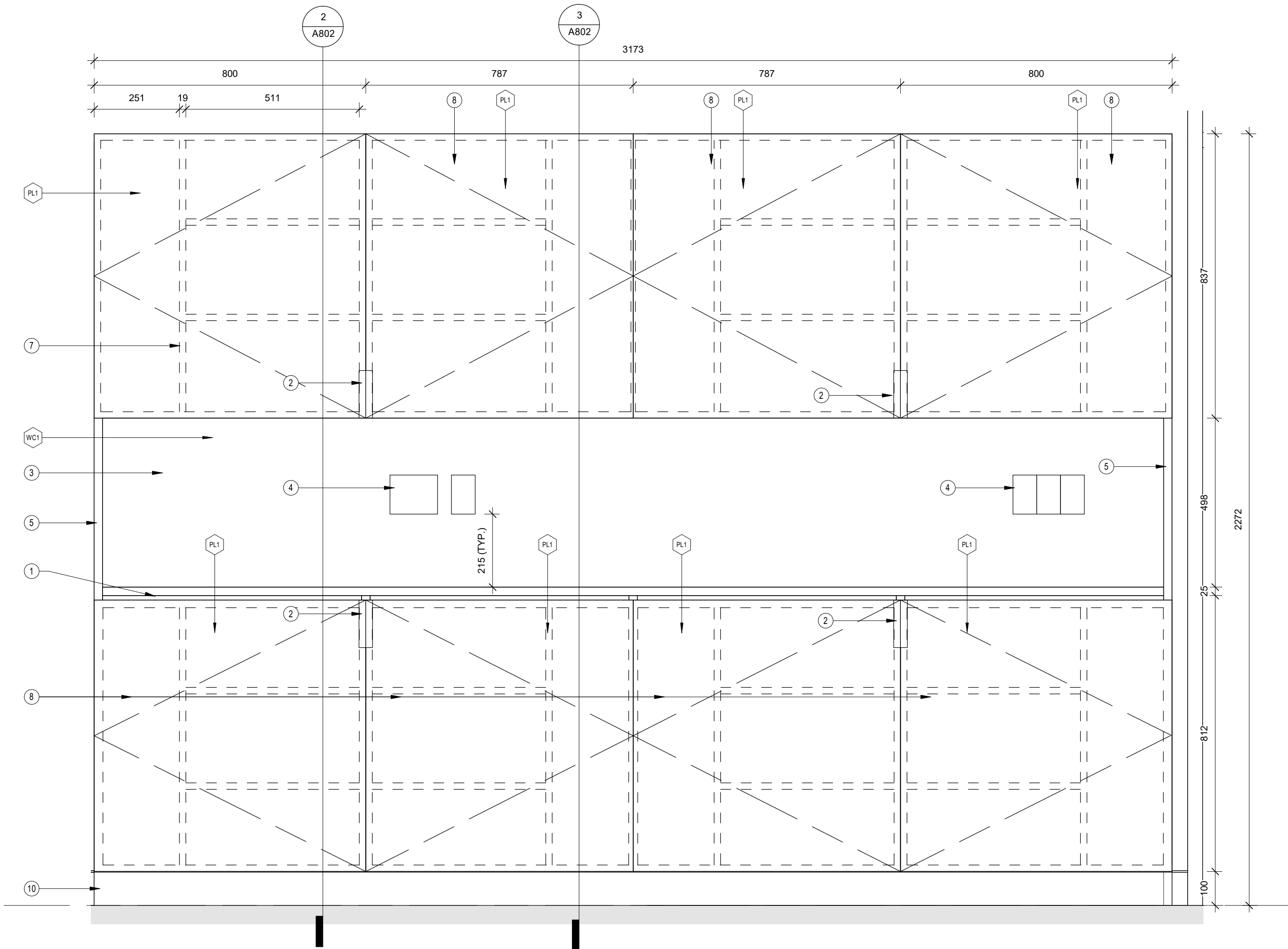
REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS,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

COPYRIGHT © BSN Architects, A Part of WF Group Inc.

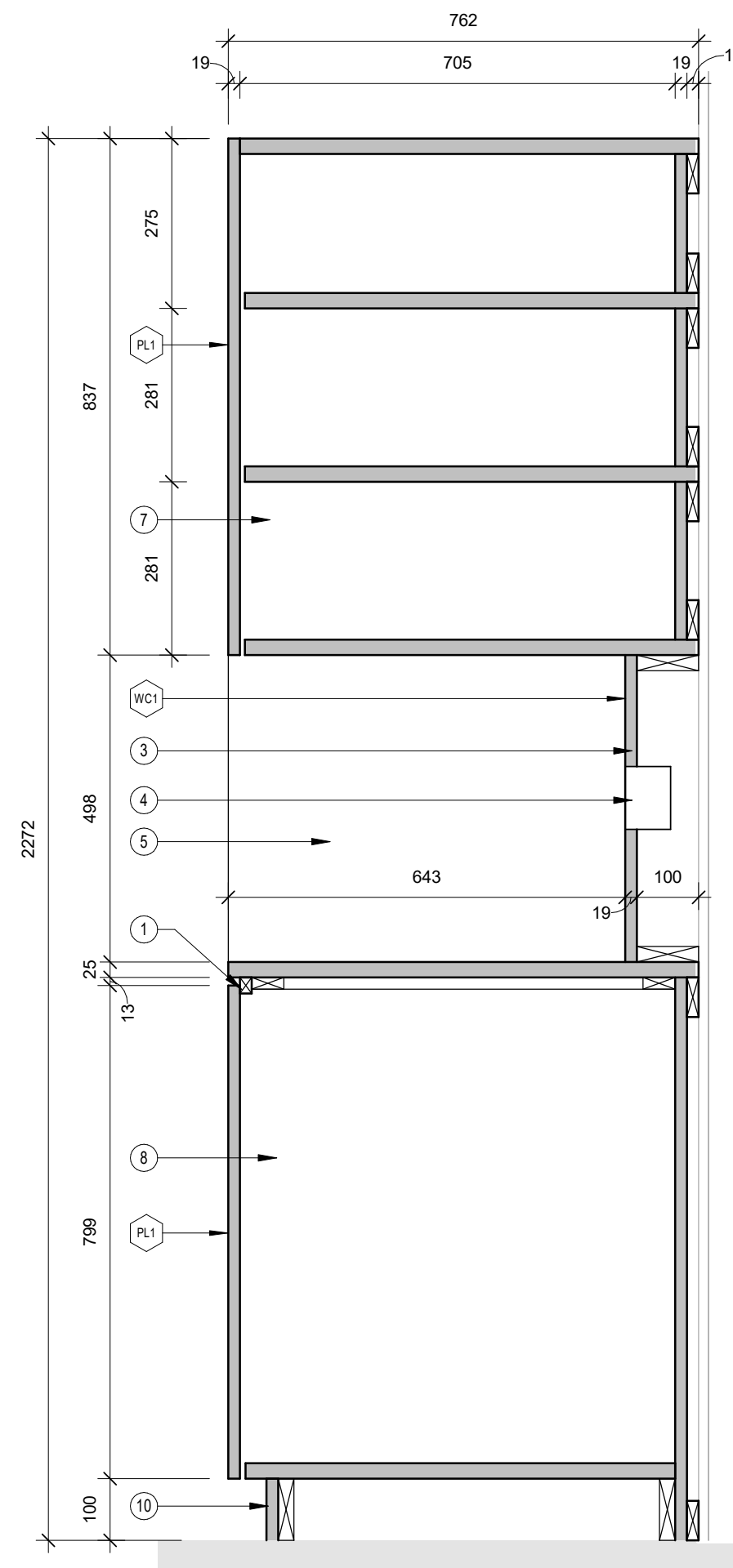
SCALE :	1 : 150	SHEET NO.:
DATE :	09/26/24	A801
PROJECT NO.:	2301	
DRAWN BY :	Author	
CHECKED BY :	Checker	



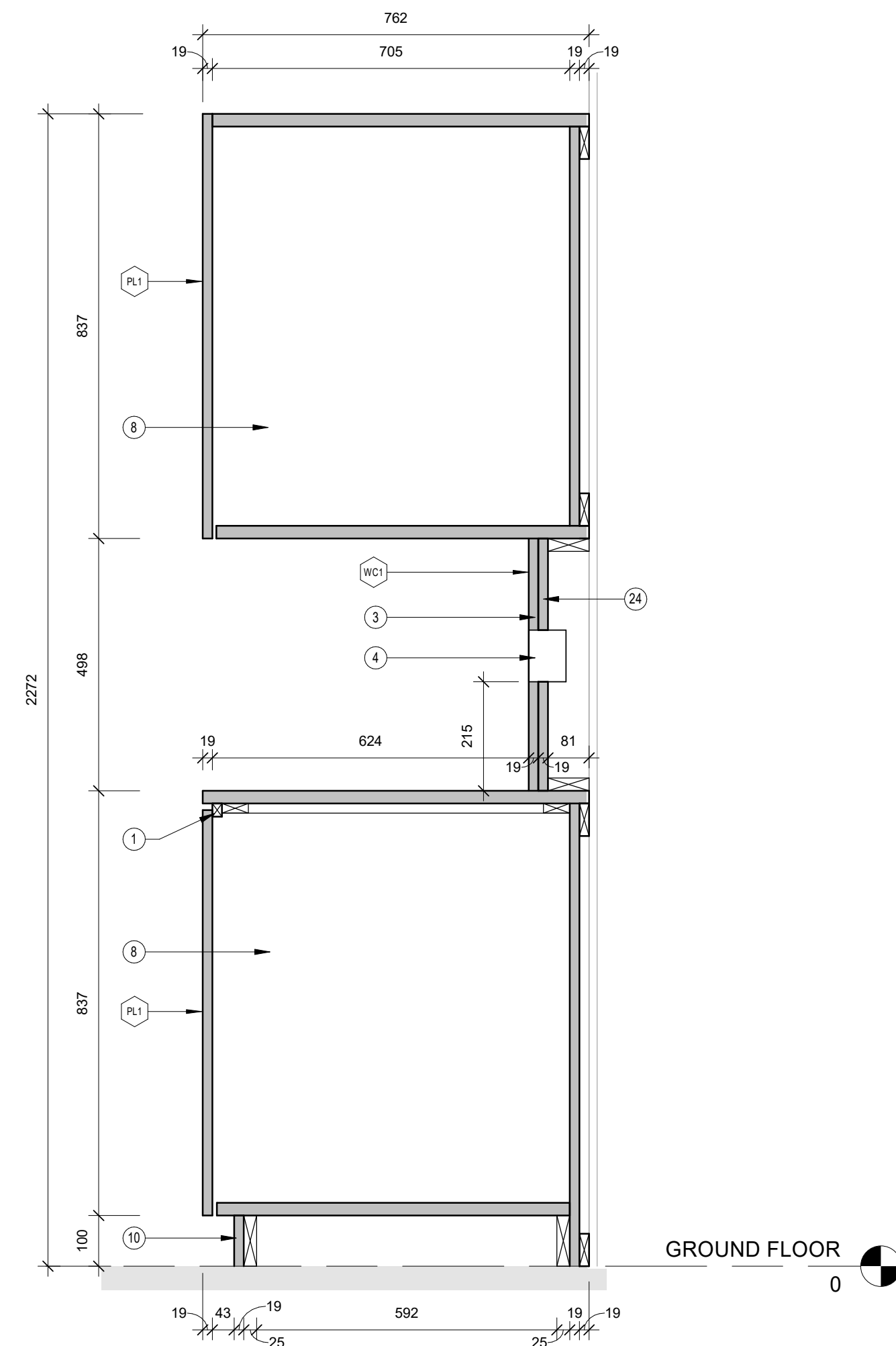
4 MW105.1 - MILLWORK PLAN
A802 Scale: 1 : 10



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



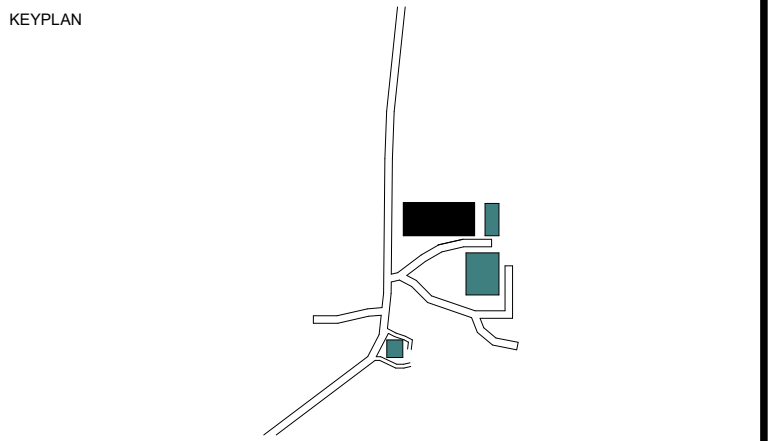
2 MW105.1 - MILLWORK SECTION
A802 Scale: 1 : 10



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

- MILLWORK DRAWING NOTES:**
- 13mm REVEAL BETWEEN COUNTER AND LOWER CABINETS.
 - EDGE PULL.
 - OPEN SHELF WITH 6mm PEG BOARD BACK.
 - RECESSED POWER/ DATA RECEPTACLE MOUNTED TO MILLWORK. REFER TO ELECTRICAL DRAWINGS FOR DETAILS.
 - 25mm LAMINATE END GABLE.
 - PLAM LOCKABLE CAMERA STORAGE CABINETS. 762W x 788H CLEAR INTERIOR DIMENSION. 3 HINGES PER DOOR (TYP.)
 - GABLE AND FIXED SHELVES.
 - INNER CABINET 25mm HIGH DENSITY PARTICLE BOARD, MELAMINE FINISH. TYPICAL OF ALL CABINETS.
 - OPEN CABINET - NO SHELVING.
 - 19mm PLYWOOD BASE FOR EACH UNIT C/W PLASTIC LAMINATE FINISH.
 - UNDERMOUNTED SINK & FAUCET. REFER TO MECHANICAL DWGS.
 - RECESSED SHELVING PILASTERS & ADJUSTABLE SHELVES.
 - CABINET DOOR D-PULL HANDLE.
 - FIXED OPEN SHELVING WITH METAL SUPPORT BRACKET.
 - STAINLESS STEEL LAMINATED ON 25mm PLYWOOD COUNTERTOP AND UPSTAND AT SURROUNDING WALLS.
 - PHENOLIC SIDE GABLE COLOUR TO MATCH ADJACENT GLAZING SYSTEM MULLIONS.
 - PAINTED PLYWOOD GABLES W/ EXPOSED EDGES.
 - FACE OF FRAME TO HAVE FINISH TO MATCH DOOR FRONTS.
 - CUT OUT IN GABLE FOR CABCOOL FAN.
 - CUT OUT IN GABLE BETWEEN LEFT AND RIGHT BAYS.
 - CUT OUT IN BOTTOM OF CABINET.
 - CUT OUT IN BACK OF CABINET.
 - LINE OF SINK BEYOND.
 - PLYWOOD BACK SUPPORT FOR TV (REFER TO AV AND ELECTRICAL PLANS FOR LOCATION).

- MILLWORK FINISHES:**
- PL1 PLASTIC LAMINATE FINISH
 - SB1 SOLID SURFACE FINISH
 - ST1 16GA STAINLESS STEEL
 - WC1 PEG BOARD WALL COVERING



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

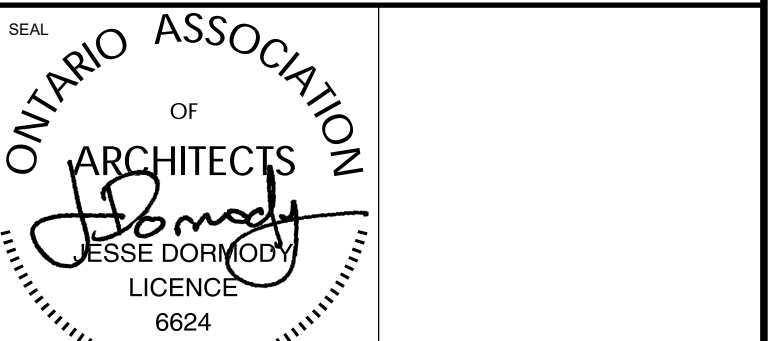
TITLE

MILLWORK DRAWINGS -
FORENSIC GARAGE

architects

Baird Sampson Neurt

416.363.8877 bsnarchitects.com



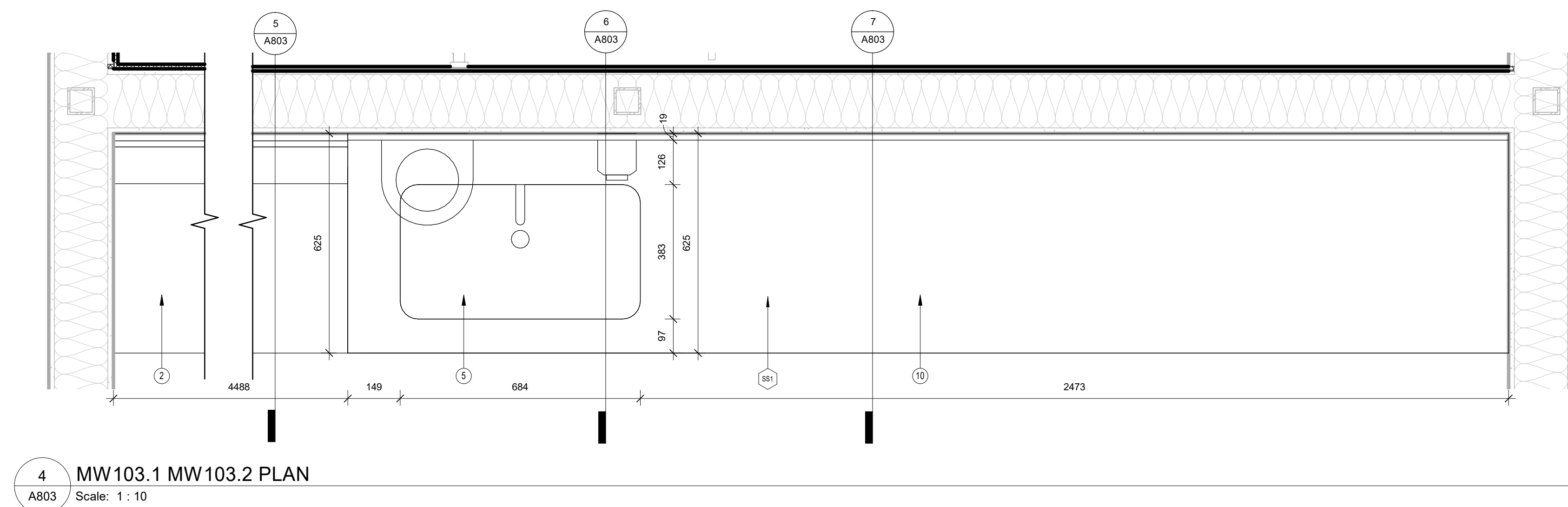
REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS. A PART OF WF GROUP. IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS.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

COPYRIGHT © BSN Architects. A Part of WF Group Inc.

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

- 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.

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



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 -
LOUNGE

Baird Sampson Neuert architects

416.363.8877 bsnarchitects.com

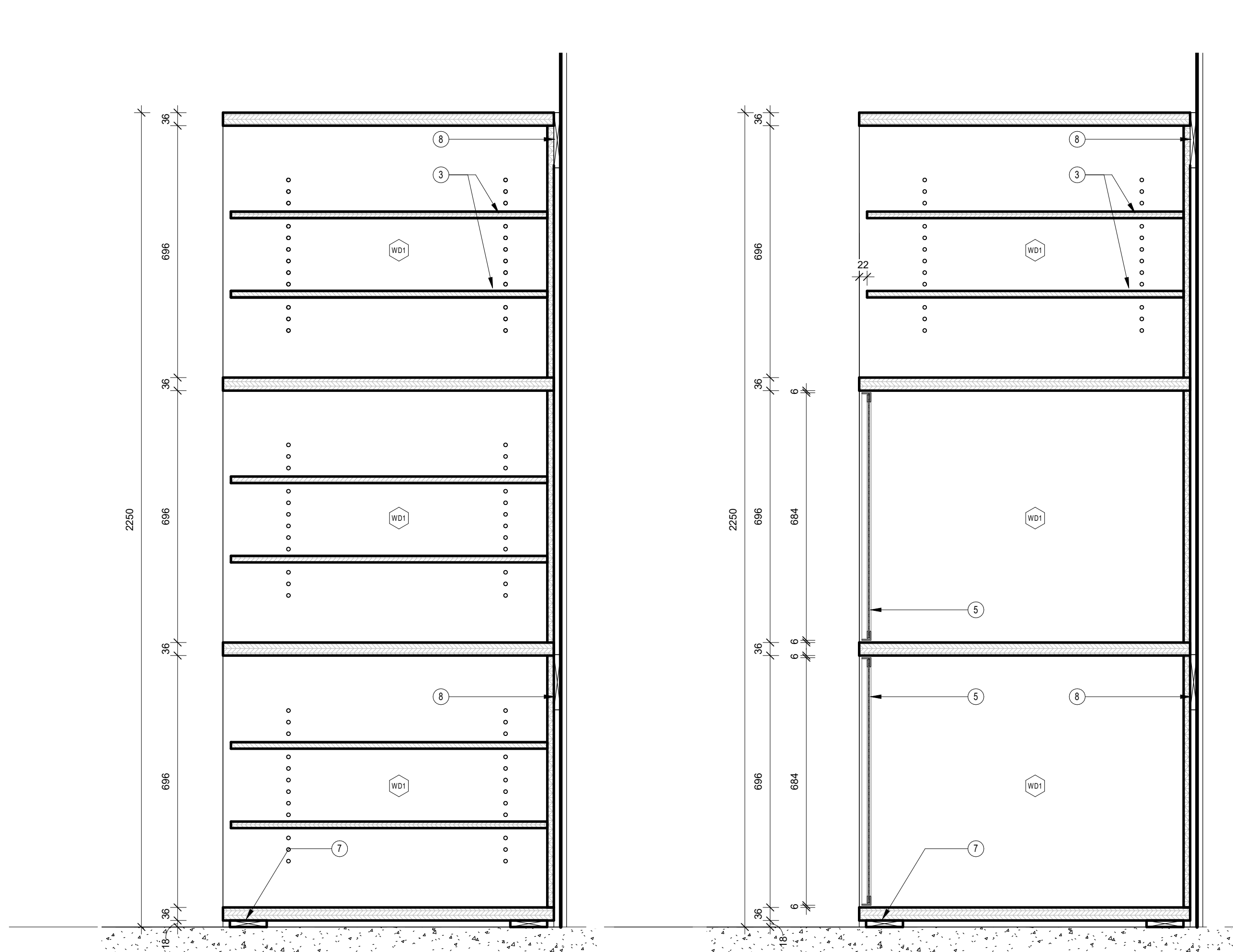


REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS,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

COPYRIGHT © BSN Architects, A Part of WF Group Inc.

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

A803



3 MW120.1 - SECTION OF TYPE B
A804 Scale: 1 : 10

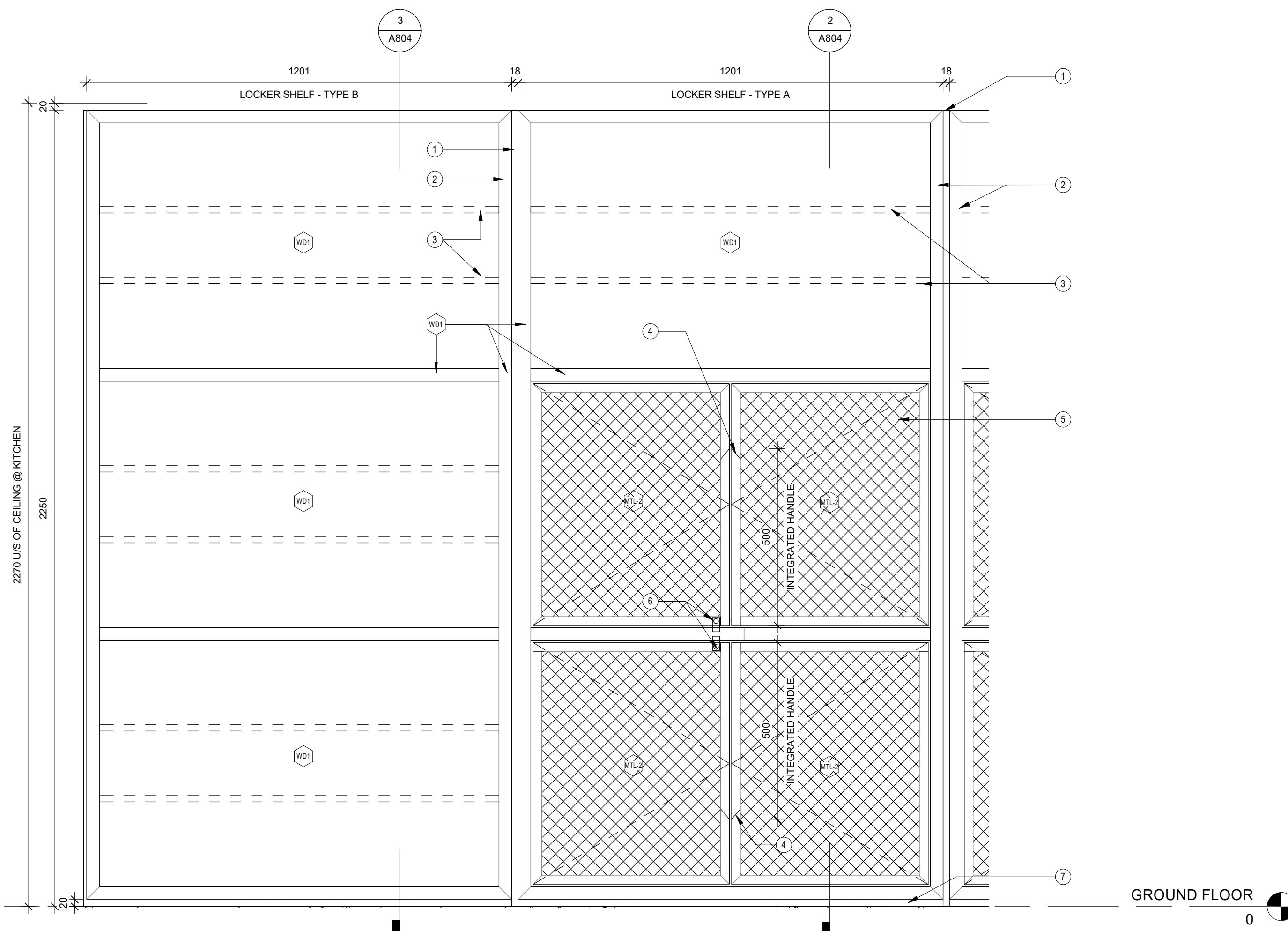
2 MW120.1 - SECTION OF TYPE A
A804 Scale: 1 : 10

MILLWORK DRAWING NOTES:

- 1 RECESSED POPLAR FILLER PIECE, SET BACK 19MM FROM F/O CABINET
- 2 36MM CLEARCOAT BALTIM BIRCH PLY CABINET FRAME W/ EXPOSED EDGES, MITER FRAME AT CORNERS
- 3 2X 18MM CLEARCOAT BALTIM BIRCH PLY ADJUSTABLE SHELVES PER OPEN SEGMENT, TYP.
- 4 STAINLESS STEEL CHANNEL PULL, CUT AWAY TO MATCH PROFILE OF CHANNEL
- 5 EXPANDED METAL MESH LOCKER DOOR
- 6 CAM LOCK
- 7 19MM RECESSED POPLAR BASE PAINTED BLACK, SHIM AS REQUIRED TO LEVEL CABINETS
- 8 SECURE LOCKER CABINETS TO CONT. HORIZONTAL 19MM THK POPLAR STRAPPING ALONG GWB SURFACE
- 9 JOIN BALTIM BIRCH LOCKER CABINETS THRU EQUALLY SPACED, VERTICALLY ALIGNED, COUNTERSUNK SS SCREWS, FROM BOTH SIDES, W/ 19MM POPLAR SPACER
- 10 CLAMP EXPANDED METAL MESH BETWEEN STAINLESS STEEL ANGLE 3MM X 25MM X 25MM AND STAINLESS STEEL PLATE 3MM X 19MM W/ COUNTERSUNK MACHINE SCREWS SPACED 150MM
- 11 CONTINUOUS SS PIANO HINGE, 1-1/2" WIDE, RICHELIEU PRODUCT #40072170 OR EQ.
- 12 EXPOSED BALTIM BIRCH PLYWOOD EDGE TO BE FREE OF GAPS, W/ EDGES CHAMFERED 2MM
- 13 STAINLESS STEEL 3MM X 55MM ASTRAGAL, SECURED W/ MACHINE SCREW TO RIGHT-SIDE DOOR HANDLE
- 14 STAINLESS STEEL CHANNEL PULL, 3MM X 25MM X 25MM TO CLAMP EXPANDED METAL MESH, CUT AWAY TO MATCH PROFILE OF CHANNEL AT LOCATION INDICATED ON ELEVATIONS

MILLWORK FINISHES:

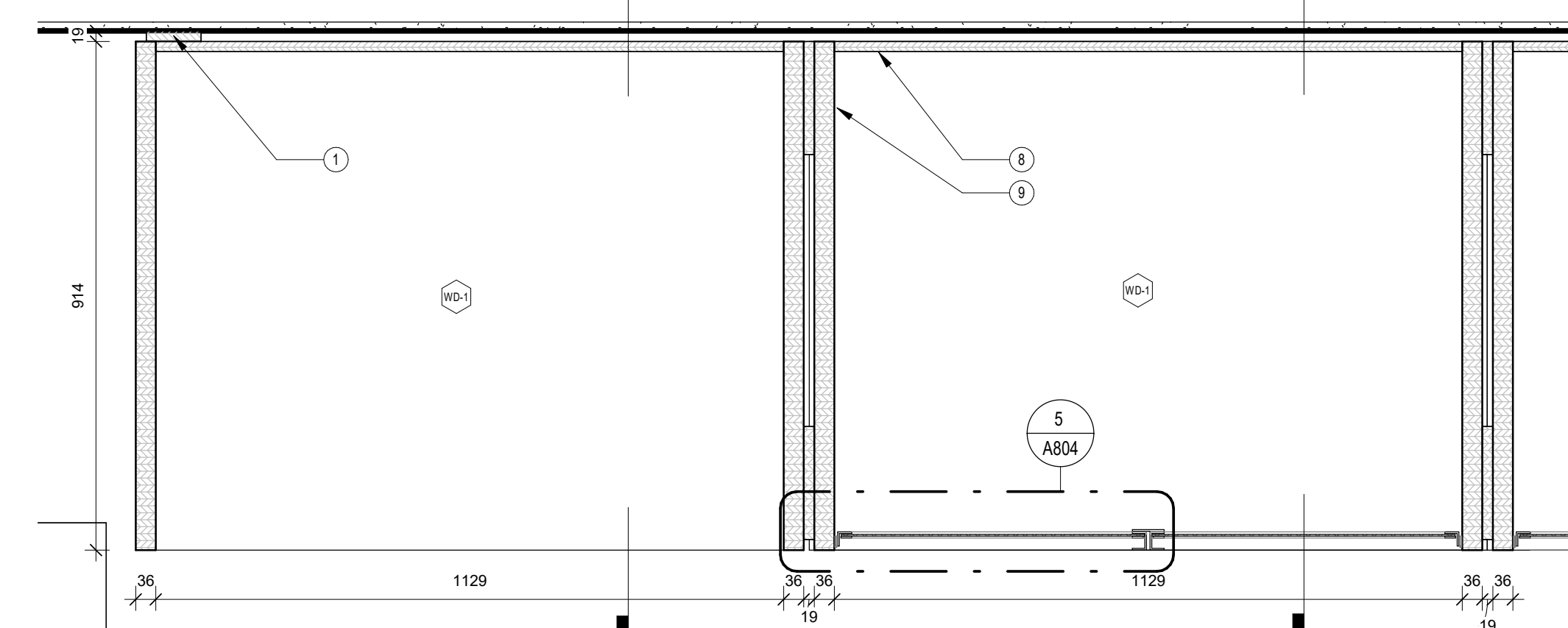
- PL1 PLASTIC LAMINATE FINISH
- SB1 SOLID SURFACE FINISH
- ST1 16GA STAINLESS STEEL
- WC1 PEG BOARD WALL COVERING
- WB1 BALTIM BIRCH PLYWOOD - CLEARCOAT
- MTL-1 STAINLESS STEEL PLATE
- MTL-2 EXPANDED METAL MESH (MCNICHOL'S EXPANDED METAL MESH PANEL NO. 460N121648)



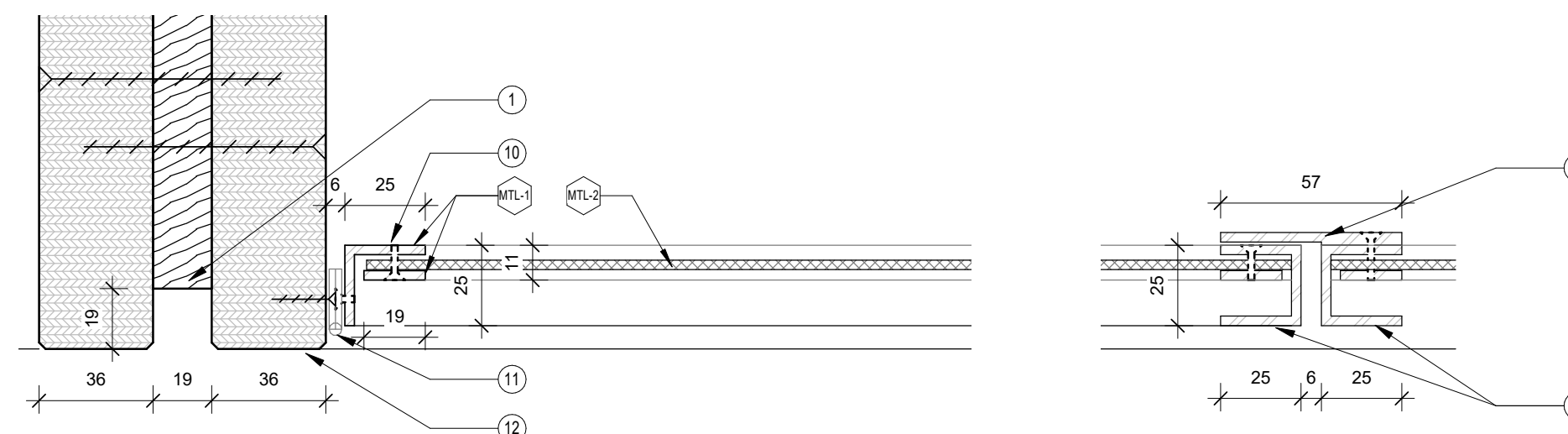
1 MW 120.1 - ELEVATION
A804 Scale: 1 : 10

3 A804

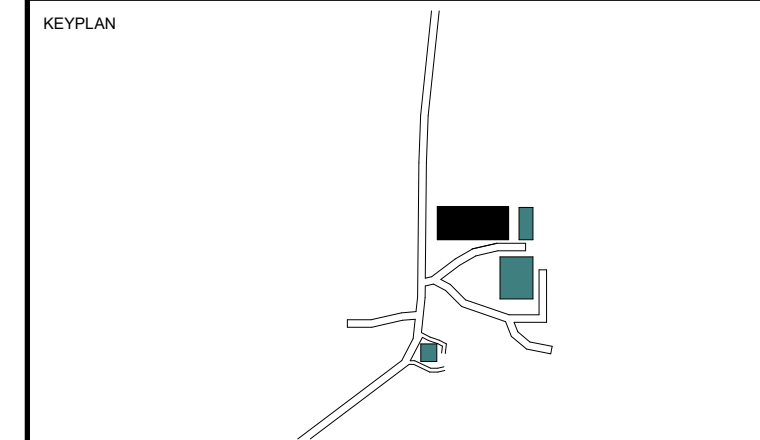
2 A804



4 MW120.1 - PLAN
A804 Scale: 1 : 10



5 MW120.1 - DOOR DETAIL
A804 Scale: 1 : 2



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

CLIENT

University of Toronto Mississauga

PROJECT

Pre-Engineered Building

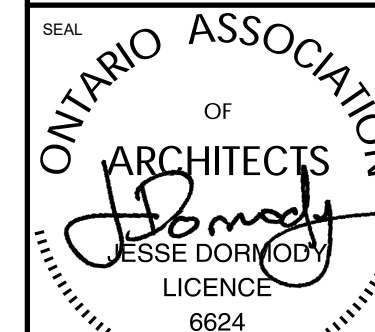
3265 Principal's Road, Mississauga, Ontario

TITLE

MILLWORK DRAWINGS - CROBE

architects
Baird Sampson Neuert

416.363.8877 bsnarchitects.com



REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, 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, A PART OF WF GROUP. - DO NOT SCALE THIS DRAWING -

COPYRIGHT © BSN Architects, A Part of WF Group Inc.

SCALE :	As Indicated	SHEET NO.:
DATE :	10/01/24	
PROJECT NO.:	2301	
DRAWN BY :	Author	
CHECKED BY :	Checker	

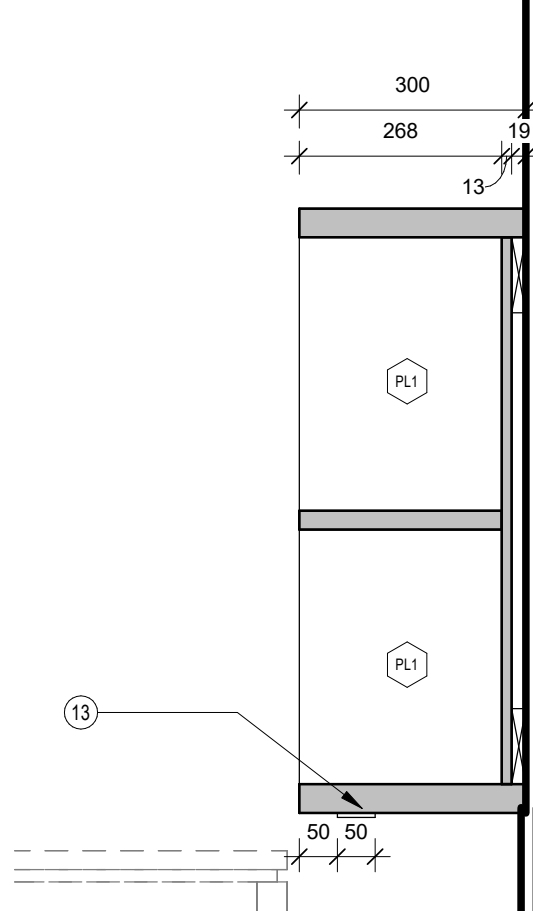
A804

MILLWORK DRAWING NOTES:

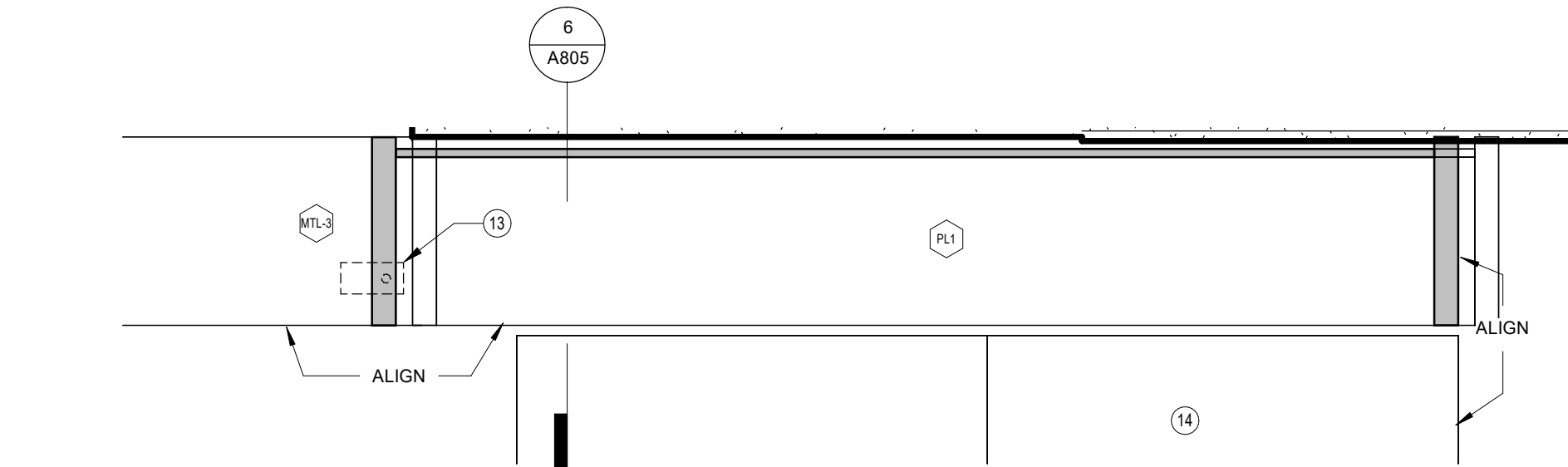
- 1 13mm REVEAL BETWEEN COUNTER AND LOWER CABINETS.
- 2 RECESSED SHELVING PILASTERS & ADJUSTABLE SHELVES.
- 3 19mm PLYWOOD BASE FOR EACH UNIT C/W PLASTIC LAMINATE FINISH.
- 4 19mm PLAM SHELF
- 5 38mm PLAM GABLE
- 6 CELLBLOCK BATTERY CHARGING CABINET CBSC3672 [1969H x 919W x 561D]
- 7 CONT. POPLAR STRAPPING 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:

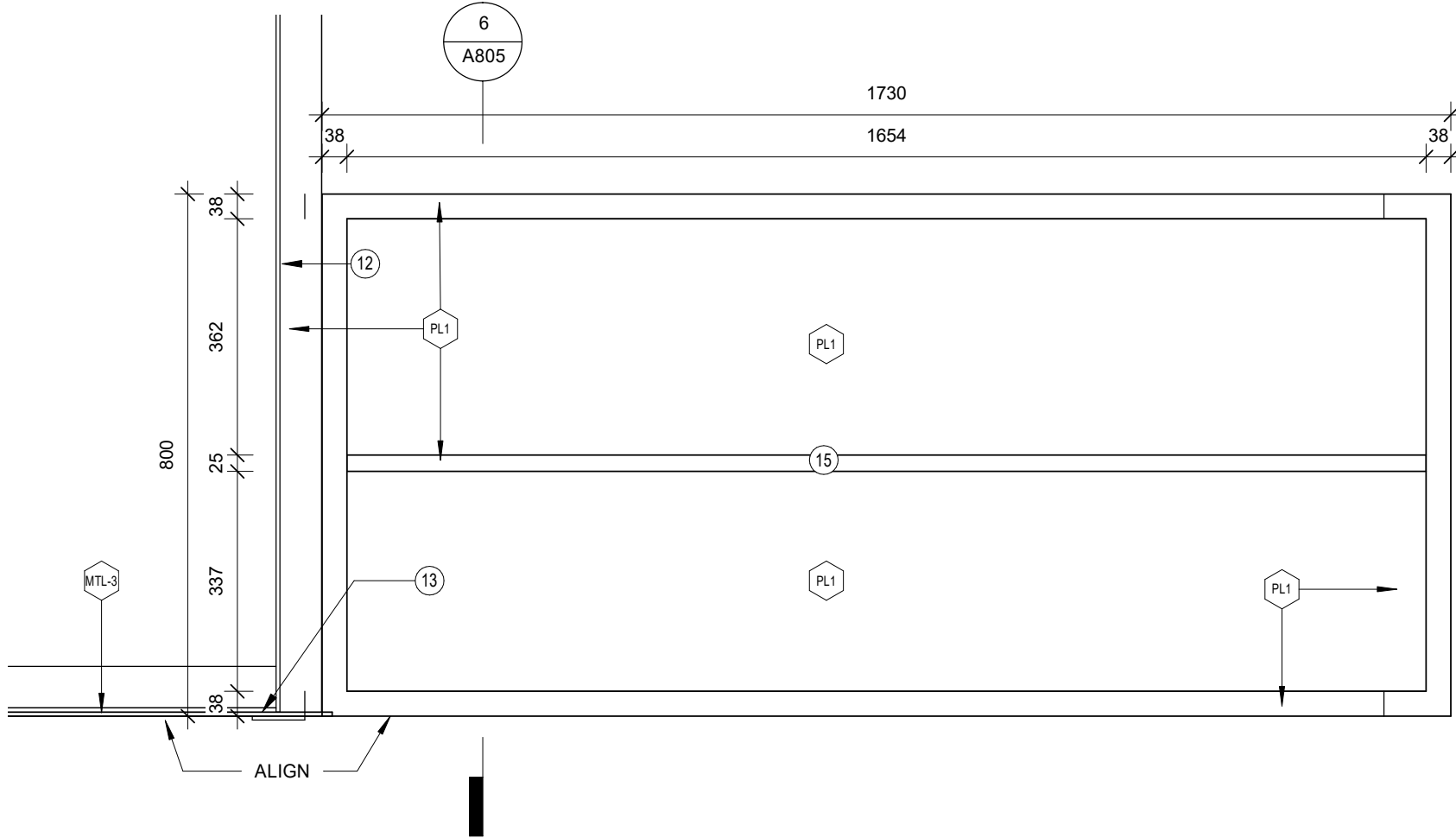
- PL1 PLASTIC LAMINATE FINISH
- BS1 SOLID SURFACE FINISH
- ST1 16GA STAINLESS STEEL
- HC1 PEG BOARD WALL COVERING
- WD1 BAL TIC BIRCH PLYWOOD - CLEARCOAT
- MTL-1 STAINLESS STEEL PLATE
- MTL-2 EXPANDED METAL MESH [MCNICHOLAS EXPANDED METAL MESH PANEL NO. 460N121648]
- MTL-3 POWDER COATED ALUMINUM PLATE



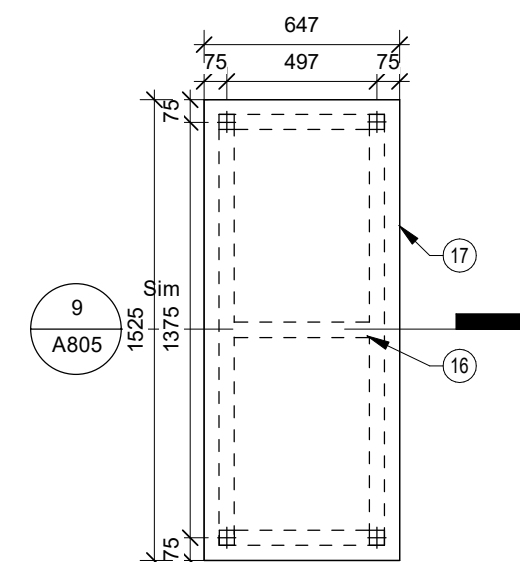
6 MW126.3 SECTION
A805 Scale: 1 : 10



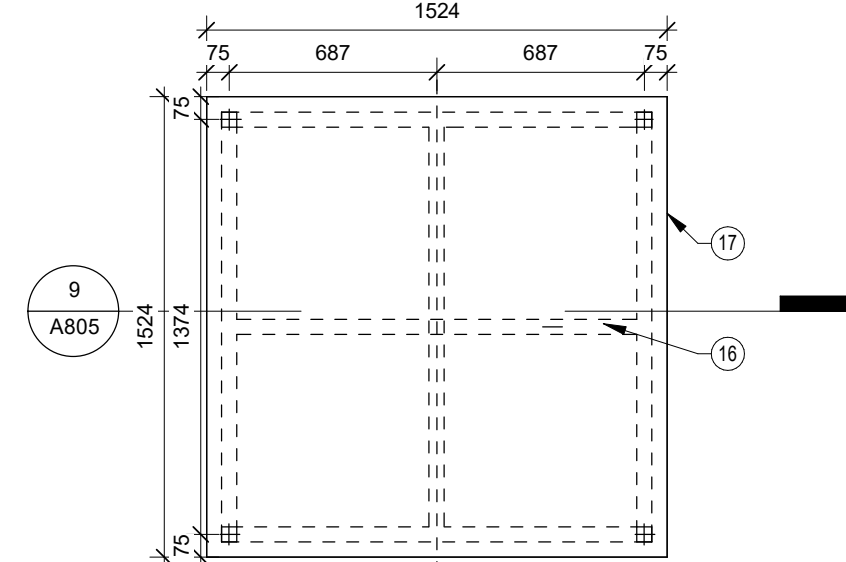
4 MW126.3 PLAN
A805 Scale: 1 : 10



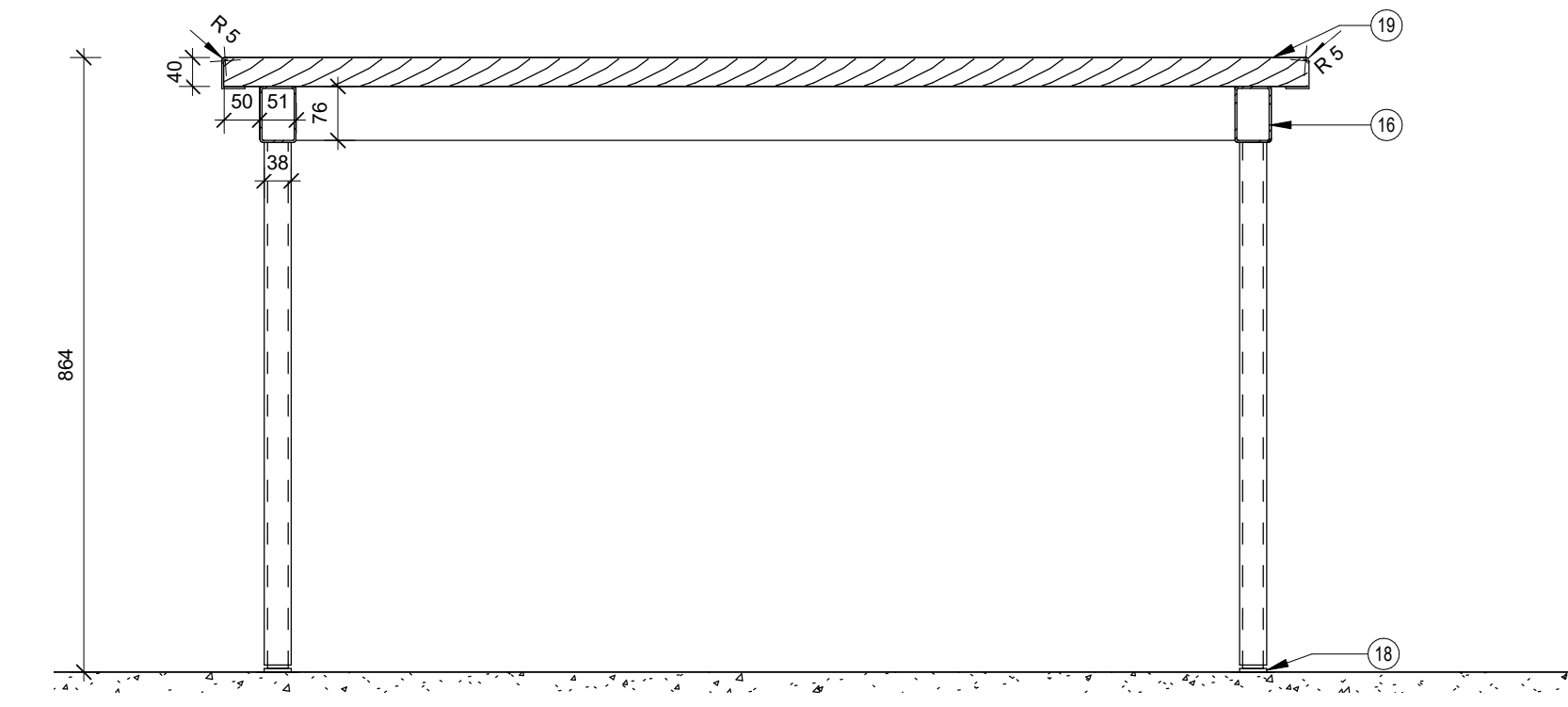
5 MW126.3 ELEVATION
A805 Scale: 1 : 10



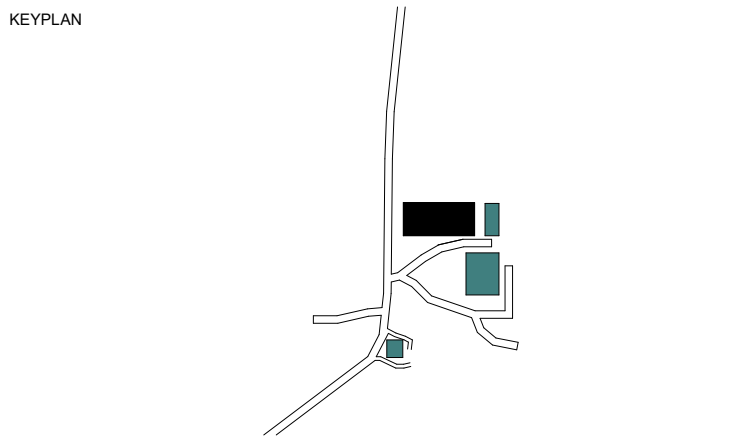
7 MW 126.5A PLAN
A805 Scale: 1 : 25



8 MW 126.5B PLAN
A805 Scale: 1 : 25



9 MW 126.5 SECTION
A805 Scale: 1 : 10



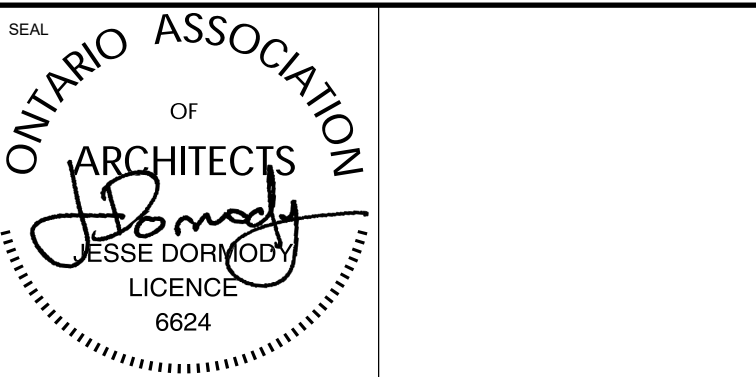
No.	ISSUANCE	DATE
1	Issued for Tender	2024-11-25

CLIENT
University of Toronto Mississauga

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

TITLE
MILLWORK DRAWINGS - CROBE

architects
Baird Sampson Neuert
416.363.8877 bsnarchitects.com



REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, 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, A PART OF WF GROUP. - DO NOT SCALE THIS DRAWING -

COPYRIGHT © BSN Architects, A Part of WF Group Inc.	
SCALE: As Indicated	SHEET NO:
DATE: 10/02/24	
PROJECT NO: 2301	
DRAWN BY: Author	
CHECKED BY: Checker	

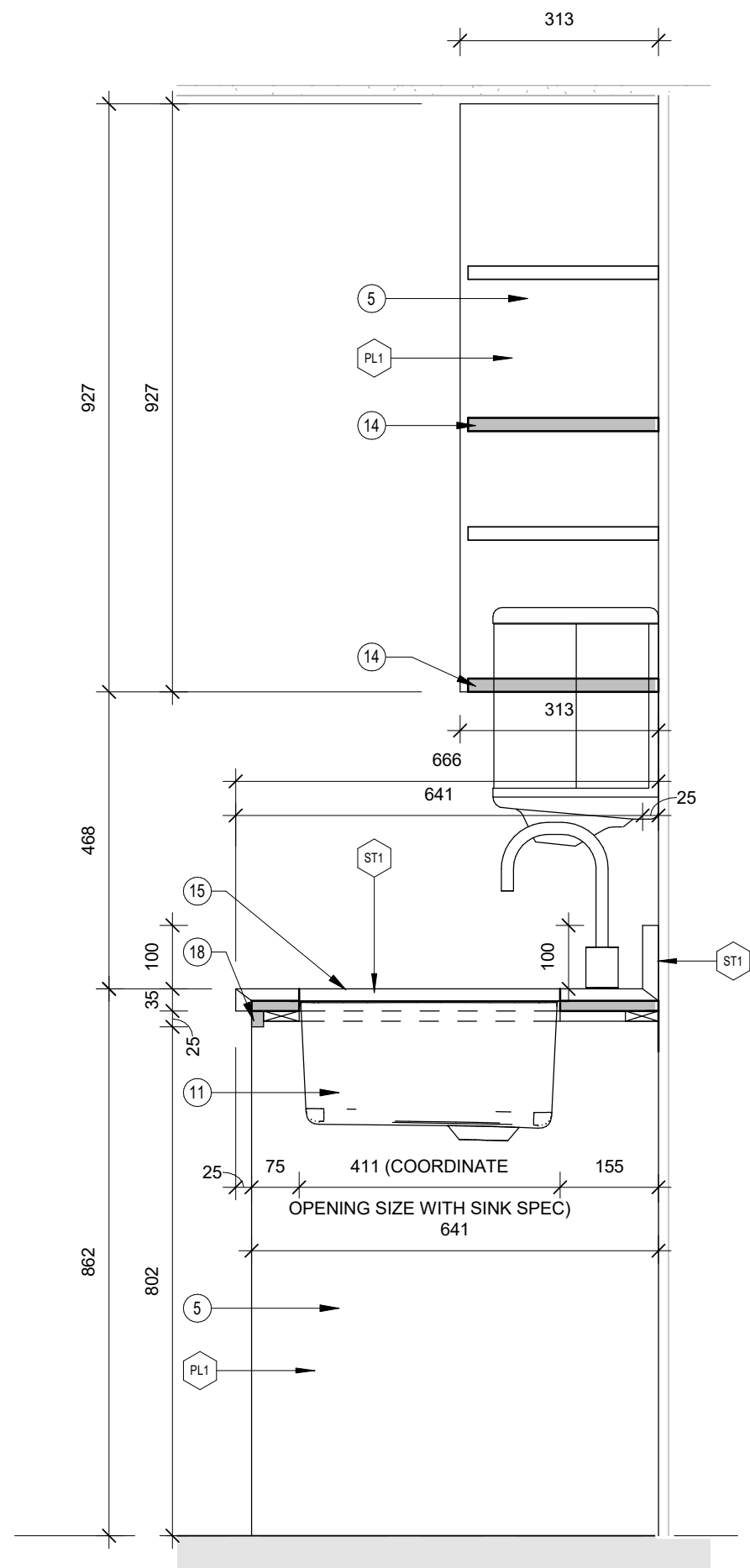
A805

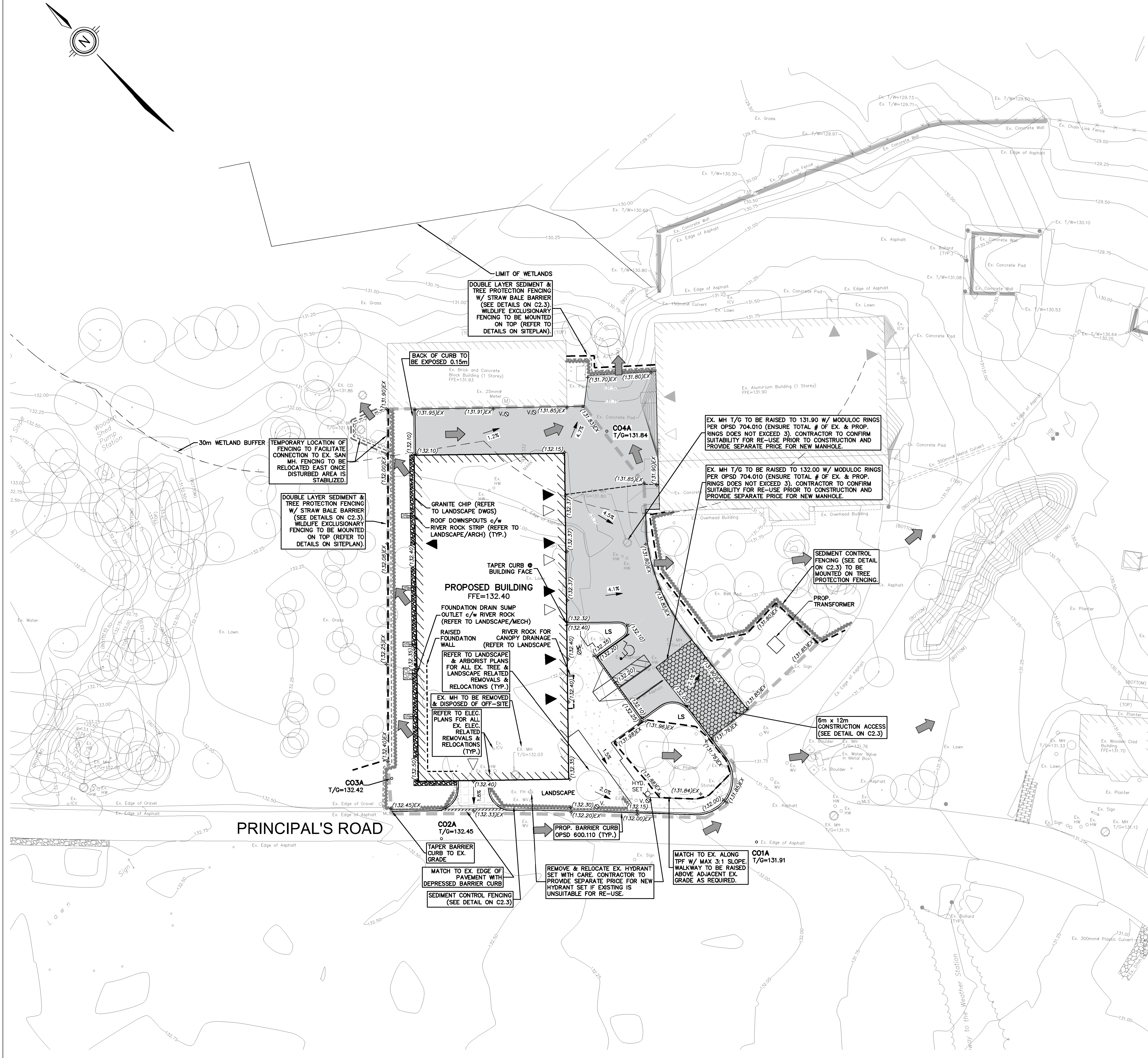
MILLWORK DRAWING NOTES:

- 13mm REVEAL BETWEEN COUNTER AND LOWER CABINETS.
- EDGE PULL.
- OPEN SHELF WITH 6mm PEG BOARD BACK.
- RECESSED POWER/ DATA RECEPTACLE MOUNTED TO MILLWORK. REFER TO ELECTRICAL DRAWINGS FOR DETAILS.
- 25mm LAMINATE END GABLE.
- PLAM LOCKABLE CAMERA STORAGE CABINETS. 762W x 788H CLEAR INTERIOR DIMENSION. 3 HINGES PER DOOR (TYP.)
- GABLE AND FIXED SHELVES.
- INNER CABINET 25mm HIGH DENSITY PARTICLE BOARD, MELAMINE FINISH. TYPICAL OF ALL CABINETS.
- OPEN CABINET - NO SHELVEING.
- 19mm PLYWOOD BASE FOR EACH UNIT C/W PLASTIC LAMINATE FINISH.
- UNDERMOUNTED SINK & FAUCET. REFER TO MECHANICAL DWGS.
- RECESSED SHELVING PILASTERS & ADJUSTABLE SHELVES.
- CABINET DOOR D-PULL HANDLE.
- FIXED OPEN SHELVING WITH METAL SUPPORT BRACKET.
- STAINLESS STEEL LAMINATED ON 25mm PLYWOOD COUNTERTOP AND UPSTAND AT SURROUNDING WALLS.
- PHENOLIC SIDE GABLE COLOUR TO MATCH ADJACENT GLAZING SYSTEM MULLIONS.
- PAINTED PLYWOOD GABLES W/ EXPOSED EDGES.
- FACE OF FRAME TO HAVE FINISH TO MATCH DOOR FRONTS.
- CUT OUT IN GABLE FOR CABCOOL FAN.
- CUT OUT IN CABLE BETWEEN LEFT AND RIGHT BAYS.
- CUT OUT IN BOTTOM OF CABINET.
- CUT OUT IN BACK OF CABINET.
- LINE OF SINK BEYOND.
- PLYWOOD BACK SUPPORT FOR TV (REFER TO AV AND ELECTRICAL PLANS FOR LOCATION).

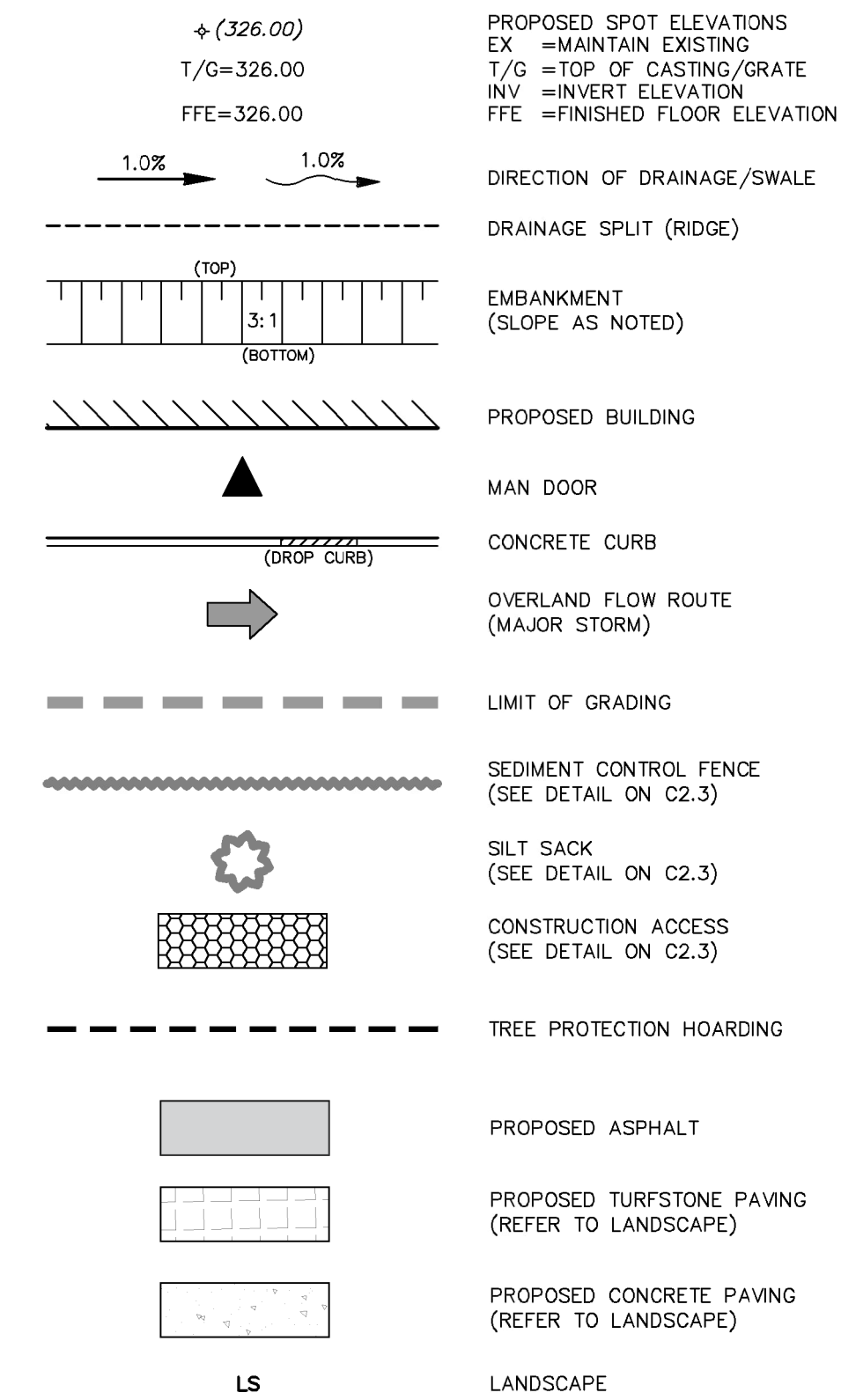
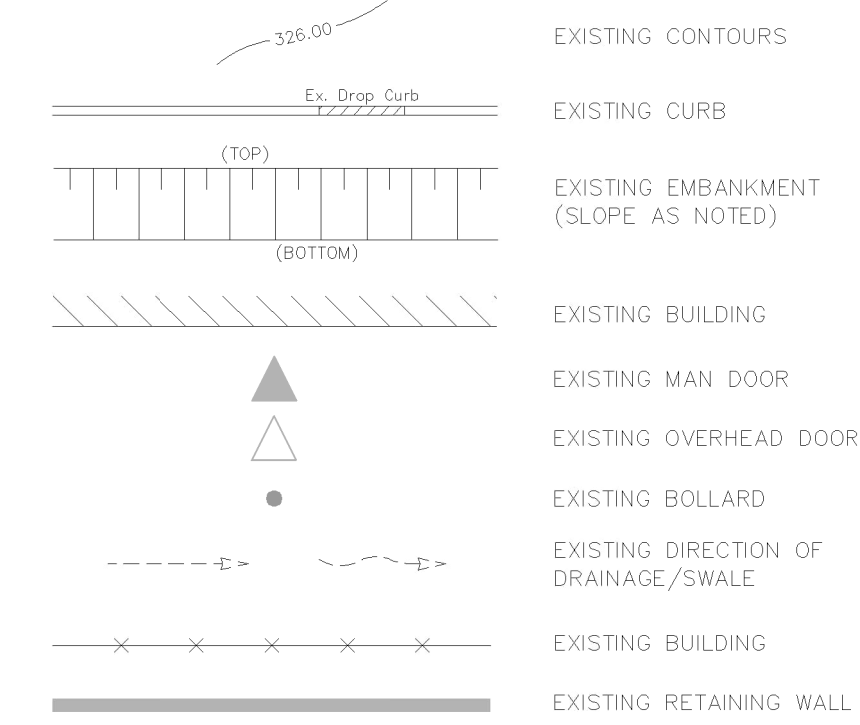
MILLWORK FINISHES:

- PL1 PLASTIC LAMINATE FINISH
- S81 SOLID SURFACE FINISH
- ST1 16GA STAINLESS STEEL
- WC1 PEG BOARD WALL COVERING





LEGEND OF PROPOSED FEATURES



GRADING CERTIFICATION NOTE:

MATERIAL		RECOMMENDED THICKNESS	
		LIGHT TRAFFIC	HEAVY TRAFFIC
ASPHALTIC CONCRETE	HL3	40mm	40mm
	HL4 or HL8	40mm	60mm
GRANULAR 'A' BASE		150mm	150mm
GRANULAR 'B' SUBBASE		250mm	350mm

BASED ON GEOTECHNICAL INVESTIGATION PREPARED BY: DS CONSULTANTS LTD. - NOVEMBER 19, 2020

GRADING CERTIFICATION NOTE:
I HAVE REVIEWED THE PLANS FOR THE CONSTRUCTION OF THE PROPOSED PRE-ENGINEERED BUILDING LOCATED AT 3265 PRINCIPAL'S ROAD IN MISSISSAUGA, ONTARIO AND HAVE PREPARED THIS PLAN TO INDICATE THE COMPATIBILITY OF THE PROPOSAL TO EXISTING ADJACENT PROPERTIES AND MUNICIPAL SERVICES. IT IS MY BELIEF THAT ADHERENCE TO THE PROPOSED GRADES AS SHOWN WILL PRODUCE ADEQUATE SURFACE DRAINAGE AND PROPER FACILITY OF THE MUNICIPAL SERVICES WITHOUT ANY DETRIMENTAL EFFECT TO THE EXISTING DRAINAGE PATTERNS OR ADJACENT PROPERTIES.

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.

CITY OF MISSISSAUGA

Hwy 104

Hwy 108

Hwy 106

SITE

North Arrow

ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR WHOLE IS FORBIDDEN WITHOUT THE ARCHITECT'S WRITTEN PERMISSION.

THE CONTRACTOR AND SUB-CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND DATA OF 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 ISSUED FOR CONSTRUCTION.

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.

GENERAL NOTE:	
---------------	--

- i. I hereby certify that this drawing conforms in all respects to the development plans for Architect's or Engineer's Office (as applicable) and Professional seal.
- ii. I hereby certify that this drawing conforms in all respects to the Building Department's plan of application for the issuance of a building permit by the City of Mississippi.
- iii. I hereby certify that this drawing conforms in all respects to the plans prepared by the architect or engineer as being in conformity with the site development plan approved by the City of Mississippi.
- iv. All exterior lighting will be directed onto the site and will not intrude upon the adjacent properties.
- v. All rooftop mechanical unit shall be screened from view by the sign.
- vi. Parking spaces reserved for people with disabilities must be defined by a sign.
- vii. The lighting shall be installed, maintained, in accordance with the City Regulations and Building Code requirements.
- viii. The applicant will be responsible for ensuring that all plans conform to Traffic Control and Safety.
- ix. Grades will be met with a 3% maximum slope at the property lines and within the site.
- x. Landscaped areas are low restrained with topsoil and sorrel prior to the release of the site.
- xi. The landscaped areas will be maintained in accordance with the City Regulations, and a separate sign application will be required through the Building Division.
- xii. Any existing adjacent to municipal lands to be located 15m (50 ft.) inside the boundary line.
- xiii. Any "dry" shielded lighting is permitted for all (1) roadway or for detached and semi-detached buildings within 60 m (195 ft.) of a residentially zoned area, and must conform to the City of Mississippi Engineer-Certified Lighting Plan.
- xiv. The Engineer-Certified Lighting Plan must be signed by the consulting Engineer.
- xv. The Owner covenants on agree to construct and install "shielded" lighting fixtures on the subject lands, in conformity with the State Park and Recreation Board's Lighting Plan to the attention of the City of Mississippi.
- xvi. The applicant will be responsible for ensuring that all plans conform to Traffic Control and Safety.
- xvii. Where planning is to be located in landscaped areas on part of an underground parking structure, the applicant shall be responsible for the following: a. The coordination of the design of an underground parking structure with the design of the surrounding building; b. The consulting Engineer's underground parking structures with landscaping area to be capable of supporting the following loads: i. 15 m of dead or granular load ii. 15 m of dead or granular load iii. Or a combination of the above
- xviii. a. Prestressed sheet drapery/curtains with a compressive strength of 1003 Kpa plus 60 cm topsoil or shrub b. Prestressed sheet drapery/curtains with a compressive strength of 1003 Kpa plus 60 cm topsoil or shrub c. Prestressed sheet drapery/curtains with a compressive strength of 1003 Kpa plus 90 cm topsoil or trees d. Prestressed 100 or approved equal
- xix. The structural design of any retaining wall over 6m in height or if any retaining wall located on a primary line is to be shown on the Site Grading plan and shall be designed in accordance with the City of Mississippi's project.
- xx. Continuous 15 cm horizontal fibre type curved concrete curbing will be provided between all adjacent and landscaped areas throughout the site.
- xxi. The site owner shall be responsible for the maintenance of the curbing of the hoarding that lies within the site and within the limit of the City boulevard area.

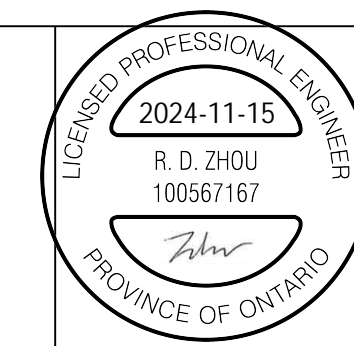
PROJECT NAME:
PRE-ENGINEERED
BUILDING
PROJECT ADDRESS:
3265 PRINCIPAL'S ROAD
CITY IDENTIFIER:
11680600 (Z-24)
LEGAL DESCRIPTION:
PT LTS 3, 5 RANGE 1 NDS., LT 4, PT LTS 3, 5 RANGE 2
NDS., PT LTS 3, 4 RANGE 3 NDS.
PT BLK M PL 550, PT RDAL BTN RANGE 2 & RANGE 3
NDS - 43R31817 PTS 4-6, 43R-18295 PT 1
SITE PLAN APPLICATION NUMBER:
SP 21/004 W8

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

No.	DATE	DESCRIPTION
-----	------	-------------

University of Toronto Mississauga

3359 Mississauga Road



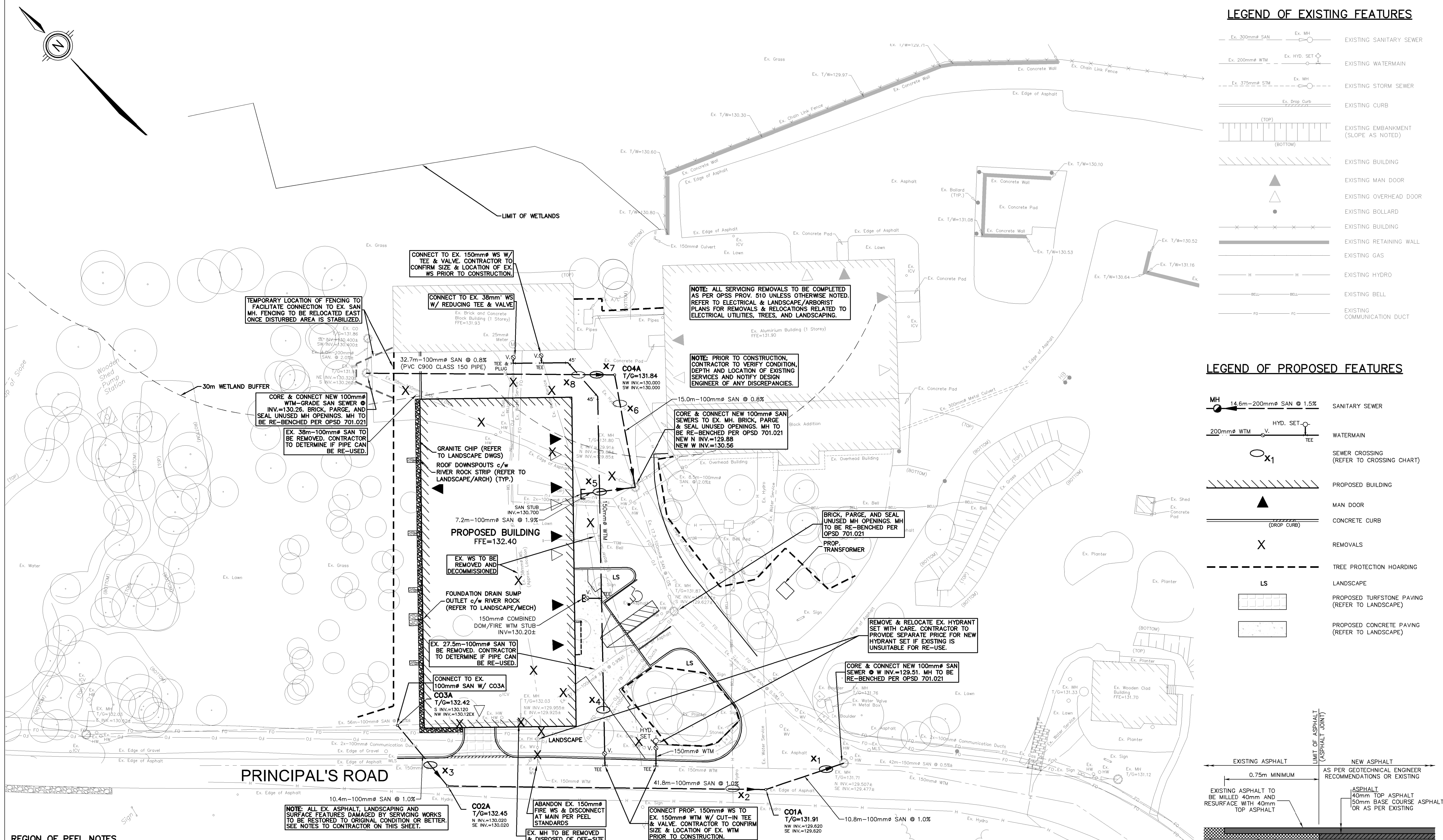
Baird Sampson
Neuert 11

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

SITE GRADING, EROSION & SEDIMENT CONTROL PLAN

SCALE:	1 : 250	C2.1
DRAWN:	SDU	
CHECKED:	RDZ	
DATE:	04/28/21	
JOB:	38225-103	

C2.1



1. PUBLIC AND PRIVATE SERVICES, APPURTENANCES, MATERIALS AND CONSTRUCTION METHODS MUST COMPLY WITH THE MOST CURRENT REGIONAL, STATE, FEDERAL, AND CANADIAN STANDARDS, THE LOCAL MUNICIPALITY REQUIREMENTS FOR THE ONTARIO BAY OF GEORGE AND ONTARIO PROVINCIAL STANDARDS. ALL WORKS SHALL ADHERE TO ALL APPLICABLE LEGISLATION, INCLUDING REGIONAL BY-LAWS.
2. WATERMAIN AND/OR WATER SERVICE MATERIALS 100MM (4") AND LARGER MUST BE PVC DR-18 CONSTRUCTED AS PER "AWWA C900-2005" SOFT OR RIGID AND SMALLER MUST BE TYPE "K" SOFT CONCRETE CONSTRUCTED AS PER ASTM B88-49.
3. WATERMAIN AND/OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 0.7M (2'5") WITH A MINIMUM HORIZONTAL SPACING OF 1.2M (4') FROM THEMSELVES AND ALL OTHER UTILITIES.
4. 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 HOLED UP PRIOR TO ALLOW THE WATER TO DRAIN INTO A PARKING LOT OR DOWN A DRAIN, ON FIRE LINES, FLUSHING OUTLET TO BE 100MM (4") DIAMETER MINIMUM ON A HYDRANT.
5. ALL CURB STOPS TO BE 3.0M (10') OFF THE FACE OF THE BUILDING UNLESS OTHERWISE NOTED.
6. HYDRANT AND VALVE SET TO REGION STANDARD 1-6-1. DIMENSION A AND B, 0.7M (2") AND 0.9M (3") AND TO HAVE PUMP NOZZLE.
7. APPROVED SET 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.
8. WATERMAINS MUST HAVE A MINIMUM VERTICAL CLEARANCE OF 0.3M (12") OVER ANY "Z" (20") UNDER SEWERS AND ALL OTHER UTILITIES WHEN CROSSING.

9. ALL PROPOSED WATER PIPING MUST BE ISOLATED FROM EXISTING LINES IN ORDER TO ALLOW INDEPENDENT PRESSURE TESTING AND CHLORINATING FROM EXISTING SYSTEMS.
10. 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.
11. LOCATION OF ALL EXISTING UTILITIES IN THE FIELD TO BE ESTABLISHED BY THE CONTRACTOR
12. 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 SUCH ARE ON THE PLANS OR NOT AND FOR ALL REPAIRS AND CONSEQUENCES RESULTING FROM DAMAGE TO THE SAME.
13. 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 UTILITIES. THIS INSPECTION WILL BE FOR THE DURATION OF THE CONSTRUCTION. THE CONTRACTOR RESPONSIBLE FOR ALL COSTS ARISING FROM SUCH INSPECTION.
14. ALL PROPOSED WATER PIPING MUST BE ISOLATED THROUGH A TEMPORARY CONNECTION THAT SHALL INCLUDE AN APPROPRIATE CROSS-CONNECTION CONTROL DEVICE, CONSISTENT WITH THE DESIGN AND REQUIREMENTS OF THE CONTRACTOR OF THE ACTIVE DISTRIBUTION SYSTEM, CONFORMING TO REGION OF PEEL STANDARDS 1-7-7 OR 1-7-8.
15. ALL WATER METERS MUST BE INSTALLED IN HEATED AND ACCESSIBLE SPACE.

SEWER CROSSING CHART

NOTE:

- Maintain minimum 0.3m(0.6m vertical clearance above all watermain or sewer when watermain cross o-verlunder sewer. Where watermain is deflected, ensure 1.7m cover is achieved or assewer is isolated.
- Maintain 0.5m vertical watermain between main and sanitary sewers when sewers cross over sanitary s sewers. Maintain vertical clearance all other crossings.
- Existing art proposed watermain depths are approximate only. Notify Design Engineer of any discrepancies.
- Contractors verify all existing inverts prior to product ordering. Notify Design Engineer of any discrepancies.

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	

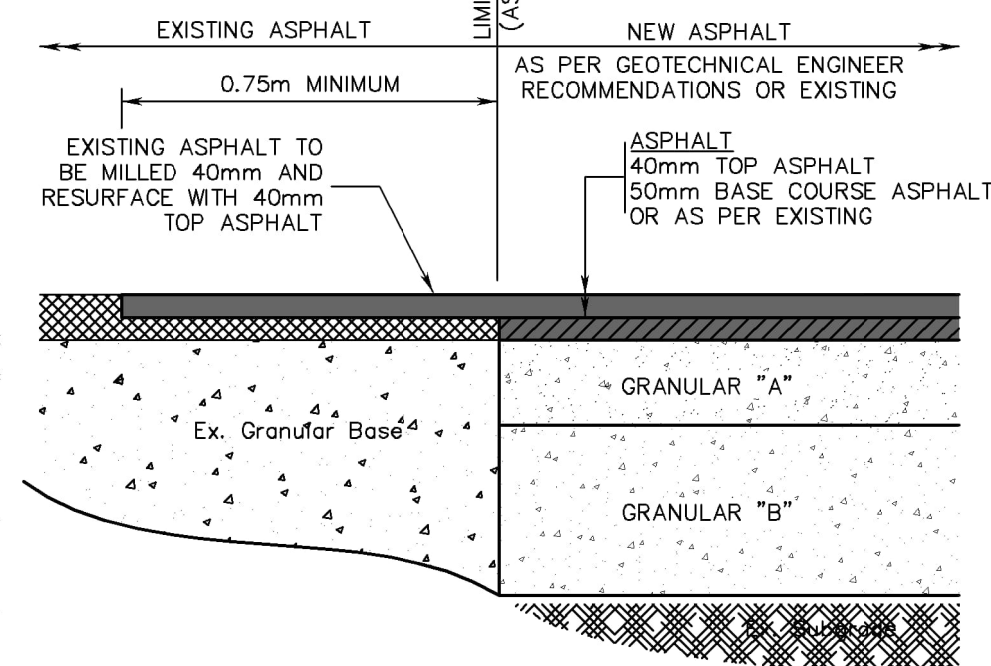
X5	SAN	100	INV=130.65	MAINTAIN MIN. 0.5m VERTICAL CLEARANCE.
	WTM	150	OBV=130.15	
X6	EX.HYDRO	UNKNOWN	UNKNOWN	MAINTAIN MIN. 0.3m VERTICAL CLEARANCE. CONTRACTOR TO VERIFY LOCATION OF EX. HYDRO.
	SAN	100	OBV=130.08 INV=129.98	
X7	EX.HYDRO	UNKNOWN	UNKNOWN	MAINTAIN MIN. 0.3m VERTICAL CLEARANCE. CONTRACTOR 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.

Ex. 300mm ϕ SAN	EX. MH	EXISTING SANITARY SEWER
Ex. 200mm ϕ RTM	Ex. HYD. SET	EXISTING WATERMAIN
Ex. 375mm ϕ STM	Ex. MH	EXISTING STORM SEWER
	Ex. Drop. Curb	EXISTING CURB
(TOP)		EXISTING EMBANKMENT (SLOPE AS NOTED)
(BOTTOM)		
		EXISTING BUILDING
		EXISTING MAN DOOR
		EXISTING OVERHEAD DOOR
		EXISTING BOLLARD
		EXISTING BUILDING
		EXISTING RETAINING WALL
		EXISTING GAS
H	H	EXISTING HYDRO
BELL	BELL	EXISTING BELL
FO	FC	EXISTING COMMUNICATION DUCT

Figure 1: Sanitary Sewer Main and Watermain Diagram

The diagram illustrates the layout and components of a sanitary sewer main and its connection to a watermain. The top section shows the 'SANITARY SEWER' with a manhole (MH) at the left end, followed by a 14.6m segment and a 200mm diameter pipe. A 'HYD. SET' (hydraulic set) is indicated on the sewer line. The sewer line then connects to a 'WATERMAIN' via a 'TEE' fitting. The watermain is shown as a 200mm diameter pipe with a 'V.' (valve) and a 'W.T.M.' (watermain) label. A 'SEWER CROSSING' is noted, with a reference to a 'CROSSING CHART'. Below the main lines, a 'PROPOSED BUILDING' is shown with a 'MAN DOOR' and a 'CONCRETE CURB'. A 'DROP CURB' is also indicated. The diagram includes a 'REMOVALS' section and a 'TREE PROTECTION HOARDING' section. The 'LS' (landscaping) section shows a 'PROPOSED TURFSTONE PAVING' and a 'PROPOSED CONCRETE PAVING' area.



ASPHALT LAP JOINT DETAIL
N.T.S.

1. **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 REVIEW FAILURE TO NOTIFY ENGINEER WILL RESULT IN EXTENSIVE POST CONSTRUCTION INSPECTION AT CONTRACTORS EXPENSE.
2. **CONFIRMATION OF EXISTING INVERTS**
72 HOURS PRIOR TO 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.
3. **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 LAP JOINT AS PER DETAIL ON THIS DRAWING.

<p>CITY OF MISSISSAUGA</p> <p align="center">SITE</p>		
ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE ARCHITECT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN PART OR WHOLE IS FORBIDDEN WITHOUT THE ARCHITECT'S WRITTEN PERMISSION. 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 ISSUED AND SIGNED BY THE ARCHITECT AND MARKED "ISSUED FOR CONSTRUCTION" NOTE: SWITCHES, EXTENSION BOXES AND ALL ACCESS PANELS, LIGHTS, SWITCHES, EXIT SIGNS, AND OTHER SUCH DEVICES MUST BE APPROVED BY THE ARCHITECT PRIOR TO ERECTION OF TRAILING. ALL SUCH ITEMS CAST INTO CONCRETE WALLS OR SLABS MUST SIMILARLY BE APPROVED BEFORE CONCRETE IS POURED. GENERAL NOTE: <ol style="list-style-type: none"> 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 application for the issuance of a building permit shall be certified. If the architect or engineer is acting in conformity with the site development plan as approved by the City of Mississauga. All exterior lighting will be erected onto the side and will not intrude upon adjacent properties. All rooftop mechanical unit shall be screened from view by the signpost. Parking spaces reserved for people with disabilities must be identified by a sign, installed at the applicant's expense, in accordance with the Bylaw Requirements adopted by Council Resolution No. 1523 dated March 2nd, 2002. The applicant will be responsible for ensuring that all plans conform to Transport Canada's restrictions. Gades will be met with a 3% maximum slope at the property lines and within the adjacent properties. All damaged areas are to be reinstated with topsoil and sod prior to the release of securities. Signage shown on the site development plan is for information purposes only. The Building Division may require additional signage beyond the 2002 and secondly, a separate sign application will be required through the Building Division. Any fencing adjacent to municipal lands is to be located 15 m (8.0 ft.) inside the property line. Only "shielded" lighting fixtures are permitted for all development, except for detached and semi-detached dwellings within 60 m (196 ft.) of a residentially zoned area. Refer to the Engineering Department Certified Lighting Plan. The Engineer Certified Lighting Plan must be signed by the consulting Engineer. The Owner covenants an agrees to construct and install "shielded" lighting fixtures on the subject lands, in conformity with the Site Plan and Engineer Certified Lighting Plan to the satisfaction of the City of Mississauga. The Applicant will be responsible for ensuring that all plans conform to Transport Canada's restrictions. Where planning to be located in landscaped areas on top of an underground parking structure, it is the responsibility of the applicant to arrange the footcandle of the design to be underground parking structure with the Landscape Architect and the Consulting Engineer. Underground parking structures with landscaping was be capable of supporting the following loads: - 15 cm of drainage gravel plus 40 cm top soil for pad - 15 cm of drainage gravel plus 30 cm top soil for drive - 15 cm of drainage gravel plus 30 cm for trees <ul style="list-style-type: none"> - * Prefabricated sheet drain systems with a compressive strength of 1003 Kpa for 40 cm top soil or slab - * Prefabricated sheet drain systems with a compressive strength of 1003 Kpa plus 60 cm top soil or slab - * Prefabricated sheet drain systems with a compressive strength of 1003 Kpa plus 90 cm top soil or slab * Terradrain 900 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. This Continuous 15 cm high granular type poured concrete curbing will be provided between all asphalt and landscaped areas throughout the site. All utility companies will be notified for locations prior to the installation of the hoarding that lies within the site and within the limited city of the boulevard area. 		
<p>PROJECT NAME: PRE-ENGINEERED BUILDING</p> <p>PROJECT ADDRESS: 3265 PRINCIPAL'S ROAD CITY IDENTIFIER: 11690600 (2-2)</p> <p>LEGAL DESCRIPTION: PT LTS 3 & RANGE 1NDS, LT 4 PT LITS 3 & RANGE 2 NDS, PT BLK M PL 55D, PT RDAL BTR RANGE 2 & RANGE 3 SP 21/093187 PTS 46, 43R-1R26Z PT 1 SITE PLAN APPLICATION NUMBER: SP 2-4004 W8</p>		
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

Engineers, Scientists, Surveyors

Baird Sampson Neuert

LICENSED PROFESSIONAL ENGINEER

2024-11-15

R. D ZHOU

10056717

(Signature)

PROVINCE OF ONTARIO

architects

117 Peter Street, Suite 305
Toronto, Ontario
Canada M5W 1P9
T (416) 363-5817
F (416) 363-4029
mail@bsnarchitects.com

SITE SERVICING PLAN

SCALE: 1 : 250	C2-D
DRAWN: SDU	
CHECKED: RDZ	
DATE: 04/28/21	
JOB: 38225-103	

CONSTRUCTION NOTES AND SPECIFICATIONS**1. GENERAL**

- 1.1. THESE PLANS ARE NOT FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY ENGINEER AND APPROVED BY THE LOCAL MUNICIPALITY.
- 1.2. THESE PLANS ARE TO BE USED FOR SERVING AND GRADING ONLY; ANY OTHER INFORMATION SHOWN IS FOR ILLUSTRATION PURPOSES ONLY. THESE PLANS MUST NOT BE USED TO SITE THE PROPOSED BUILDING.
- 1.3. NO CHANGES ARE TO BE MADE WITHOUT THE APPROVAL OF THE DESIGN ENGINEER.
- 1.4. THESE PLANS ARE NOT TO BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE PERMISSION OF MTE CONSULTANTS INC.
- 1.5. PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST:
 - 1.5.1. CHECK AND VERIFY ALL EXISTING CONDITIONS, LOCATIONS AND ELEVATIONS WHICH INCLUDES BUT IS NOT LIMITED TO THE BENCHMARK ELEVATIONS, EXISTING SERVICE CONNECTIONS AND EXISTING INVERTS. REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO PROCEEDING.
 - 1.5.2. OBTAIN ALL UTILITY LOCATES AND REQUIRED PERMITS AND LICENSES.
 - 1.5.3. VERIFY THAT THE FINISHED FLOOR ELEVATIONS AND BASEMENT FLOOR ELEVATIONS (WHICH MAY APPEAR ON THIS PLAN) COMPLY WITH THE FINAL ARCHITECTURAL DRAWINGS.
 - 1.5.4. CONFIRM ALL DRAWINGS USED FOR CONSTRUCTION ARE OF THE MOST RECENT REVISION.
- 1.6. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR ANY DAMAGE TO EXISTING WORKS. THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL DAMAGED AND/OR DISTURBED PROPERTY WITHIN THE MUNICIPAL RIGHT-OF-WAY TO LOCAL MUNICIPALITY STANDARDS
- 1.7. ALL WORKS ON A MUNICIPAL RIGHT-OF-WAY WITH THE EXCEPTION OF WATERMAIN TAPPING, TO BE INSTALLED BY THE OWNER'S CONTRACTOR AT OWNER'S EXPENSE IN ACCORDANCE WITH THE LOCAL MUNICIPALITY'S "PROCEDURE FOR OFF-SITE WORKS BY PRIVATE CONTRACTOR". THE OWNER AND CONTRACTOR ARE TO ENSURE OFF-SITE WORKS PERMIT IS IN PLACE PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL AFFECTED PROPERTY TO ORIGINAL CONDITION. ALL BOULEVARD AREAS SHALL BE RESTORED WITH 150mm TOPSOIL AND SOO.
- 1.8. ALL UNDERGROUND SERVICES ARE TO BE CONSTRUCTED IN FULL COMPLIANCE WITH THE ONTARIO PROVINCIAL BUILDING CODE (PART 7, PLUMBING), THE ONTARIO PROVINCIAL STANDARD SPECIFICATIONS (OPSS) AND THE REQUIREMENTS OF THE CITY OF MISSISSAUGA AND THE REGION OF PEEL; WHICH CODES AND REGULATIONS SHALL SUPERSEDE ALL OTHERS.
- 1.9. **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 7, SECTION 1.2.2. EXTERNAL REVIEW. FAILURE TO NOTIFY ENGINEER WILL RESULT IN EXTENSIVE POST CONSTRUCTION INSPECTION AT CONTRACTORS EXPENSE.**
- 1.10. PLAN TO BE READ IN CONJUNCTION WITH SWM BRIEF AND DRAWING C2.1 AND C2.2 PREPARED BY MTE CONSULTANTS INC.
- 1.11. SITE PLAN INFORMATION TAKEN FROM PLAN PREPARED BY BAIRD SAMPSON NEUERT ARCHITECTS, RECEIVED NOVEMBER 2024.
- 1.12. EXISTING TOPOGRAPHIC AND LEGAL INFORMATION TAKEN FROM PLAN PREPARED BY SPEIGHT, VAN NOSTRAND & GIBSON LIMITED, DATED JUNE 8, 2020. MTE ASSUMES THAT ALL TOPOGRAPHICAL INFORMATION IS AN ACCURATE REPRESENTATION OF CURRENT CONDITIONS.
- 1.13. CONTRACTOR TO OBTAIN WRITTEN PERMISSION FROM ADJACENT PROPERTY OWNER PRIOR TO ENTERING UPON NEIGHBOURING LANDS TO UNDERTAKE ANY WORK. COPIES OF THESE LETTERS OF PERMISSION SHALL BE SUBMITTED TO THE DEPARTMENT OF PUBLIC WORKS FOR APPROVAL PRIOR TO ANY WORK BEING PERFORMED. FAILURE TO COMPLY WITH THE ABOVE IS AT CONTRACTOR'S OWN RISK.
- 1.14. SITE SERVING CONTRACTOR TO TERMINATE ALL SERVICES 1 METRE FROM FOUNDATION WALL.
- 1.15. FILTER FABRIC TO BE TERRAFIX 200R OR APPROVED EQUAL.
- 1.16. MAXIMUM GRASSSED SLOPE TO BE 3:1. SLOPES GREATER THAN 3:1 TO BE LANDSCAPED WITH LOW MAINTENANCE GROUND COVER.
- 1.17. SIDE SLOPES OF ALL STOCKPILES OR EXTRACTION FACES TO BE MAINTAINED AT 70 DEGREES OR LESS BETWEEN EARLY APRIL AND LATE AUGUST TO DETER BANK SWALLOWS FROM NESTING.
- 1.18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC AND SAFETY MEASURES DURING THE CONSTRUCTION PERIOD INCLUDING THE SUPPLY, INSTALLATION AND REMOVAL OF ALL NECESSARY SIGNALS, DELINEATORS, MARKERS, AND BARRIERS. ALL SIGNS, ETC. SHALL CONFORM TO THE STANDARDS OF THE LOCAL MUNICIPALITY AND THE MTO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 1.19. THE POSITION OF POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
- 1.20. CONTRACTOR TO MAINTAIN A "CONFINED TRENCH CONDITION" IN ALL SEWER AND SERVICE TRENCHES.
- 1.21. FOLLOWING COMPLETION OF PROPOSED WORKS AND PRIOR TO OCCUPANCY INSPECTION, ALL STORM AND SANITARY SEWERS ARE TO BE FLUSHED, AND ALL CATCHBASIN AND CATCHBASIN MANHOLE SUMPS ARE TO BE CLEANED OF DEBRIS AND SILT.

2. SANITARY SEWERS

- 2.1. PIPE BEDDING FOR RIGID PIPE TO BE CLASS "B" AS PER OPSS 802.030. PIPE BEDDING FOR FLEXIBLE PIPE TO BE AS PER OPSS 802.010. BEDDING MATERIAL AND COVER MATERIAL TO BE GRANULAR "A". TRENCH BACKFILL TO BE NATIVE MATERIAL REPLACED IN 300mm LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- 2.2. SANITARY SEWERS 150mmØ AND SMALLER SHALL BE POLYVINYL CHLORIDE (PVC) PIPE DR28 ASTM-D3034 WITH INTEGRAL BELL AND SPIGOT UTILIZING FLEXIBLE ELASTOMERIC SEALS.
- 2.3. SANITARY CLEANOUTS TO BE IN ACCORDANCE WITH SANITARY CLEANOUT DETAIL ON THIS SHEET OR APPROVED EQUIVALENT.
- 2.4. MANHOLES TO BE 1200mmØ PRECAST WITH ALUMINIUM STEPS AT 300mm CENTRES AS PER OPSS 701.010 UNLESS OTHERWISE SPECIFIED.
- 2.5. MANHOLES TO BE BENCHED PER OPSS 701.021.
- 2.6. SANITARY MANHOLE LIDS TO BE PER OPSS 401.010 -TYPE 'A'.
- 2.7. MANHOLE FRAMES, CASTINGS AND LIDS TO BE QUALITY GREY IRON ASTM A48 CLASS 30B.
- 2.8. ADJUSTMENT UNITS FOR SANITARY STRUCTURES TO BE IN ACCORDANCE WITH OPSS 704.010 OR 704.011.
- 2.9. FACTORY FABRICATED WYES SHALL BE USED FOR ALL SERVICE CONNECTIONS.
- 2.10. SANITARY SEWERS AND SERVICES TO HAVE MINIMUM 1.2m COVER ON TOP OF PIPE.

- 2.11. CONTRACTOR RESPONSIBLE FOR TESTING OF SANITARY SEWERS IN ACCORDANCE WITH OPSS 410 INCLUDING CCTV AND MANDREL TESTING

3. WATERMAINS

- 3.1. PIPE BEDDING FOR RIGID PIPE TO BE CLASS "B" AS PER OPSS 802.030. PIPE BEDDING FOR FLEXIBLE PIPE TO BE AS PER OPSS 802.010. BEDDING MATERIAL AND COVER MATERIAL TO BE GRANULAR "A". TRENCH BACKFILL TO BE NATIVE MATERIAL REPLACED IN 300mm LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- 3.2. WATERMAINS 100mmØ AND LARGER SHALL BE PVC C900 CLASS 150 INSTALLED WITH MINIMUM 1.7 METRES OF COVER. FITTINGS 100mmØ AND LARGER SHALL BE PVC CLASS 150 (DR18) CSA B137.3.
- 3.3. WATERMAIN FITTINGS TO BE SUPPLIED WITH MECHANICAL JOINT RESTRAINTS. FOR WATERMAIN PIPE SIZES 150mmØ OR LESS ALL PIPE JOINTS TO BE RESTRAINED WITHIN 5.0m FROM ALL FITTINGS. IN EACH DIRECTION, UNLESS SHOWN OTHERWISE ON THE CONTRACT DRAWINGS. ALL TEES TO HAVE MINIMUM 2.0m SOLID PIPE LENGTH ON EACH RUN OF THE TEE, OR PROVIDE A THRUST BLOCK PER OPSS 1103.010.
- 3.4. ALL METALLIC FITTINGS (EXCLUDING CURB/MAIN STOP AND BRASS FITTINGS) AND APPURTENANCES INCLUDING SADDLES, VALVES, TEES, BENDS ETC ARE TO BE WRAPPED WITH AN APPROVED PETROLATUM SYSTEM CONSISTING OF PASTE, MASTIC AND TAPE. PARTICULAR ATTENTION SHALL BE PAID TO ANODE INSTALLATION. CONTRACTOR TO REFER TO THE MOST RECENT EDITION OF THE LOCAL MUNICIPALITY AND AREA MUNICIPALITIES DESIGN GUIDELINES AND SUPPLEMENTAL SPECIFICATIONS FOR MUNICIPAL SERVICES.
- 3.5. WATERMAIN VALVES 100mmØ AND LARGER SHALL BE AS PER AWWA C509 – MUELLER A2360–23 OR APPROVED EQUIVALENT (OPEN LEFT) INCLUDING VALVE BOX AND 2.3kg ANODE INCLUDING ANODE PROTECTION INSTALLED PER LOCAL MUNICIPALITY STANDARDS.
- 3.6. PVC WATERMAIN SHALL HAVE TWO STRANDED COPPER, AWGB TRACER WIRE STRAPPED TO TOP AT 5 METRE INTERVALS. TRACER WIRE SHALL BE BROUGHT TO THE SURFACE AT ALL HYDRANTS AND CAD WELDED TO THE LOWER FLANGE OF THE HYDRANT.
- 3.7. HYDRANTS SHALL BE CANADA VALVE "CENTURY" OR APPROVED EQUIVALENT WITH 2–64mm HOSE CONNECTIONS INCLUDING 5.5kg ANODE.
- 3.8. MAIN STOPS, CURB STOPS AND COUPLINGS SHALL BE AWWA C-800 COPPER TO COPPER FLANGED OR COMPRESSION CONNECTION OR APPROVED EQUIVALENT.
- 3.9. SERVICE BOXES TO BE FERGUSON ECLIPSE TYPE FIGURE 222 SIZE NO. 9 OR APPROVED EQUIVALENT COMPLETE WITH ROD AND PLUG.
- 3.10. WATER CONNECTIONS MAY BE PLACED IN THE SAME TRENCH WITH A STORM OR SANITARY CONNECTION ONLY IF A MINIMUM VERTICAL SEPARATION OF 500mm IS MAINTAINED BETWEEN THE WATER SERVICE AND ANY OTHER PIPE, IN ACCORDANCE WITH SECTION 7.3.5.7.(2)(a)(i) OF THE ONTARIO BUILDING CODE.
- 3.11. ALL WATERMAINS AND SERVICES TO HAVE MINIMUM 1.7m COVER ON TOP OF PIPE, WHERE COVER TO TOP OF PIPE IS DEFICIENT, CONTRACTOR SHALL CONTACT DESIGN ENGINEER FOR "WATER PIPE INSULATION DETAIL".
- 3.12. ALL WATERMAIN TO BE PRESSURE TESTED IN ACCORDANCE WITH OPSS 441. DISINFECT ALL WATERMAIN IN ACCORDANCE WITH AWWA C 651–99 INCLUDING CHLORINATION, BACKFLOW PREVENTOR AND 24 HOUR DUPLICATE SAMPLING. ALL TESTING AND DISINFECTION TO BE COMPLETED UNDER THE SUPERVISION OF THE ENGINEER. (CONTRACTOR TO SUBMIT WATER COMMISSIONING PLAN IN ACCORDANCE WITH REGION OF PEEL STANDARDS. THIS PLAN MUST BE APPROVED BY THE LOCAL MUNICIPALITY PRIOR TO ANY WATERMAIN WORK).

4. EROSION AND SEDIMENT CONTROL

- 4.1. CONTRACTOR TO INSTALL EROSION CONTROL MEASURES AS SHOWN PRIOR TO CONSTRUCTION AND MAINTAIN IN GOOD CONDITION UNTIL CONSTRUCTION IS COMPLETED AND ALL DISTURBED GROUND SURFACES HAVE BEEN RESTABILIZED EITHER BY PAVING OR RESTORATION OF VEGETATIVE COVER.
- 4.2. ALL SEDIMENT CONTROL FENCING TO BE INSTALLED PRIOR TO ANY AREA GRADING, EXCAVATING OR DEMOLITION COMMENCING.
- 4.3. EROSION CONTROL FENCING TO BE INSTALLED AROUND BASE OF ALL STOCKPILES. ALL STOCKPILES TO BE KEPT 2.5m MINIMUM FROM PROPERTY LINE.
- 4.4. EROSION PROTECTION TO BE PROVIDED AROUND ALL STORM AND SANITARY MHS AND CBS.
- 4.5. CONSTRUCTION ACCESS (MUD MAT) TO BE PROVIDED ON-SITE AT ALL LOCATIONS WHERE CONSTRUCTION VEHICLES EXIT THE SITE. CONSTRUCTION ACCESS (MUD MAT) SHALL BE A MINIMUM OF 3.0m WIDE, 15.0m LONG (LENGTH MAY VARY DEPENDING ON SITE LAYOUT) AND 0.3m DEEP AND SHALL CONSIST OF 200mm CLEAR STONE MATERIAL OR APPROVED EQUIVALENT. PROCEED WITH EROSION FENCING TO THE INTO MUD MAT. CONTRACTOR TO ENSURE ALL VEHICLES LEAVE THE SITE VIA THE MUD MAT AND THAT THE MAT IS MAINTAINED IN A MANNER TO MAXIMIZE EFFECTIVENESS AT ALL TIMES.
- 4.6. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS SITE DEVELOPMENT PROGRESSES. CONTRACTOR TO PROVIDE ALL ADDITIONAL EROSION CONTROL STRUCTURES.
- 4.7. EROSION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN RESTABILIZED.
- 4.8. NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THE ENGINEER AND THE LOCAL MUNICIPALITY'S DEPARTMENT OF PUBLIC WORKS.
- 4.9. CONTRACTOR TO CLEAN ROADWAY AND SIDEWALKS OF SEDIMENTS RESULTING FROM CONSTRUCTION TRAFFIC FROM THE SITE EACH DAY.
- 4.10. CONTRACTOR MUST REMOVE EROSION AND SEDIMENTATION FENCING PRIOR TO COMPLETION OF PROJECT. CONTRACTOR TO HAVE EROSION AND SEDIMENTATION FENCE INSPECTED WHEN VEGETATION HAS ESTABLISHED, BUT PRIOR TO FENCE BECOMING OVERGROWN. ENGINEER'S REPRESENTATIVE TO DETERMINE IF VEGETATION HAS REACHED THE CRITICAL POINT AND WILL THEN INSTRUCT CONTRACTOR TO REMOVE FENCE.
- 4.11. ADDITIONAL EROSION AND SEDIMENT CONTROL MATERIALS (I.E. SILT FENCE, STRAW BALES, CLEAR STONES ETC.) ARE TO BE KEPT ON SITE FOR EMERGENCIES AND REPAIRS.
- 4.12. EROSION AND SEDIMENT CONTROL METHODS ARE TO BE CONTINUOUSLY EVALUATED; AND UPGRADES ARE TO BE IMPLEMENTED, WHEN NECESSARY.
- 4.13. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR CONTROLLING SEDIMENT & EROSION WITHIN THE SITE FOR THE TOTAL PERIOD OF THE CONSTRUCTION. THE SEDIMENT ADEN WATER WILL NOT BE ALLOWED TO DISCHARGE TO THE CREEK.
- 4.14. AN AFTER HOURS CONTACT NUMBER TO BE BE VISIBLY POSTED ON-SITE FOR EMERGENCIES. ALL PLANS SHOULD HAVE NAME AND CONTACT INFO OF THE PERSON RESPONSIBLE FOR ESC MEASURES.
- 4.15. ANY SEDIMENT SPILL FROM THE SITE MUST BE REPORTED TO MINISTRY OF ENVIRONMENT AND CLIMATE CHANGE (CALL SPILL ACTION CENTRE AT 1 800 268 6060).

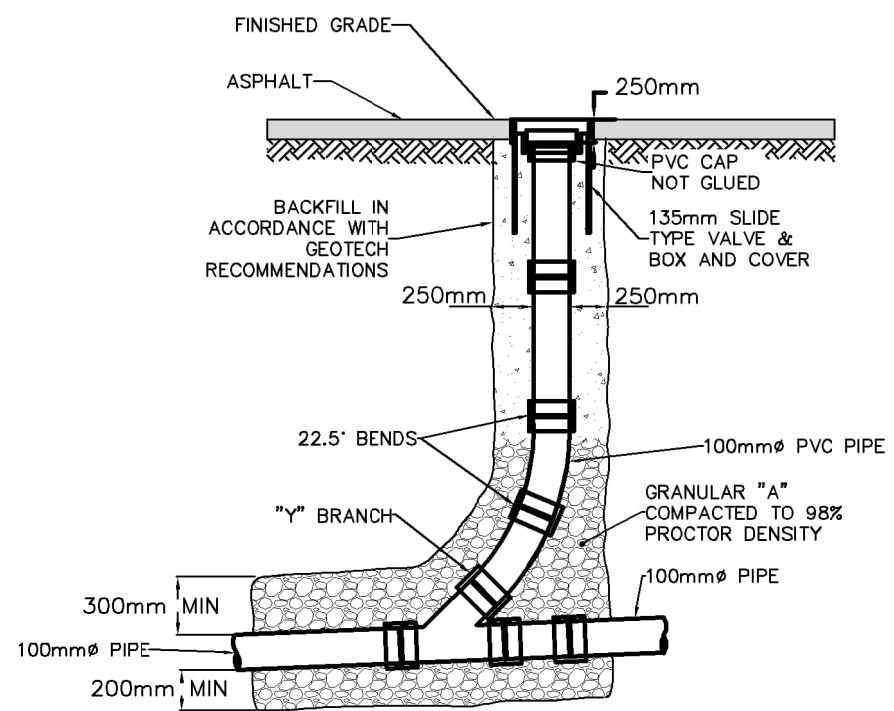
5. MAINTENANCE RECOMMENDATIONS

- 5.1. REMOVE SEDIMENT AND CONTAMINANTS ANNUALLY AND REINSTATE STORM WATER MANAGEMENT FACILITY ACCORDING TO THE DESIGN OUTLINED ON THIS PLAN.
- 5.2. EROSION CONTROL STRUCTURES TO BE MONITORED REGULARLY AND ANY DAMAGE REPAIRED IMMEDIATELY. SEDIMENTS TO BE REMOVED WHEN ACCUMULATIONS REACH A MAXIMUM OF 1/3 THE HEIGHT OF THE FENCE.
- 5.3. OWNER'S REPRESENTATIVE TO MONITOR EROSION CONTROL

REGION OF PEEL WATERMAIN NOTES

STRUCTURES TO ENSURE FENCING IS INSTALLED AND MAINTENANCE IS IN ACCORDANCE TO CITY REQUIREMENTS.

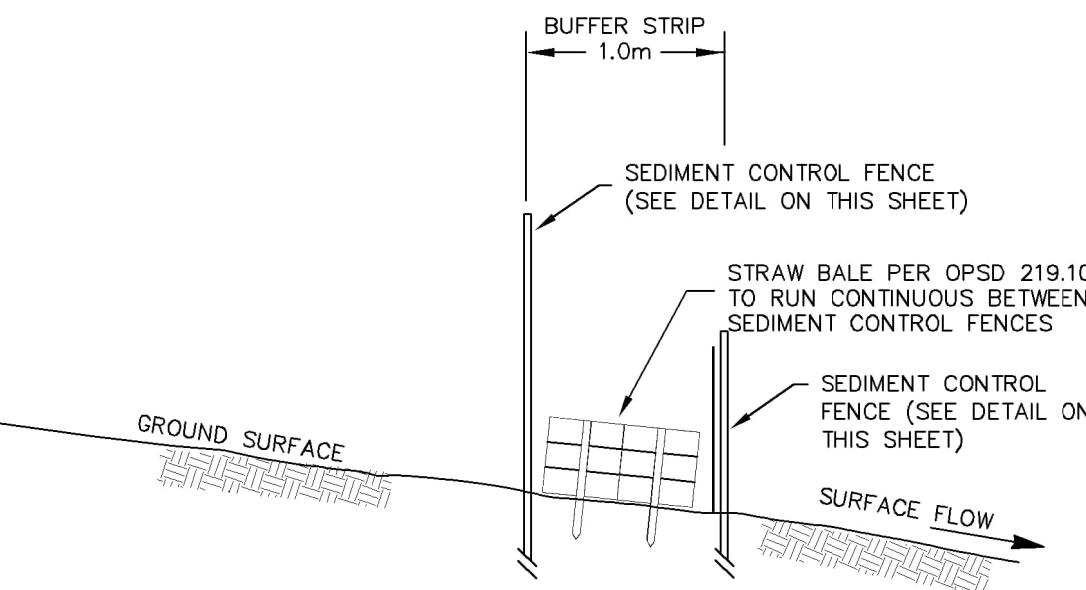
1. **WATERMAINS**
 - 1.1. ALL WATERMAINS AND WATER SERVICE MATERIALS AND CONSTRUCTION METHODS MUST CORRESPOND TO THE CURRENT REGION OF PEEL PUBLIC WORKS STANDARDS AND SPECIFICATIONS.
 - 1.2. WATERMAINS 100mm AND LARGER SHALL BE PVC C900 CLASS 150 INSTALLED WITH MINIMUM 1.7 METRES OF COVER. FITTINGS 100mm AND LARGER SHALL BE PC CLASS 150 (DR18) CSA B137.3.
 - 1.3. ALL WATERMAINS AND SERVICES TO HAVE MINIMUM 1.7m COVER ON TOP OF PIPE, WITH A MINIMUM HORIZONTAL SPACING OF 1.2m FROM THEMSELVES AND OTHER UTILITIES. WHERE COVER TO TOP OF PIPE IS DEFICIENT, CONTRACTOR SHALL CONTACT DESIGN ENGINEER FOR "WATER PIPE INSULATION DETAIL".
 - 1.4. PROVISIONS FOR FLUSHING WATER LINE PRIOR TO TESTING etc. MUST BE PROVIDED WITH AT LEAST A 50mm (2") OUTLET TO 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.
 - 1.5. ALL CURB STOPS TO BE 3.0m OFF THE FACE OF THE BUILDING UNLESS OTHERWISE NOTED.
 - 1.6. 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.
 - 1.7. WATERMAINS TO BE INSTALLED TO GRADES SHOWN ON APPROVED PLAN. COPY OF GRADE SHEET MUST BE SUPPLIED TO INSPECTOR PRIOR TO COMMENCEMENT OF WORK, WHERE REQUESTED BY INSPECTOR.
 - 1.8. WATERMAINS MUST HAVE A MINIMUM VERTICAL CLEARANCE OF 0.3m (12") OVER 0.15m (20") UNDER SEWERS AND ALL OTHER UTILITIES WHEN CROSSING.
 - 1.9. ALL PROPOSED WATER PIPING MUST BE ISOLATED FROM EXISTING LINES IN ORDER TO ALLOW INDEPENDENT PRESSURE TESTING AND CHLORINATING FROM EXISTING SYSTEMS.
 - 1.10. 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.



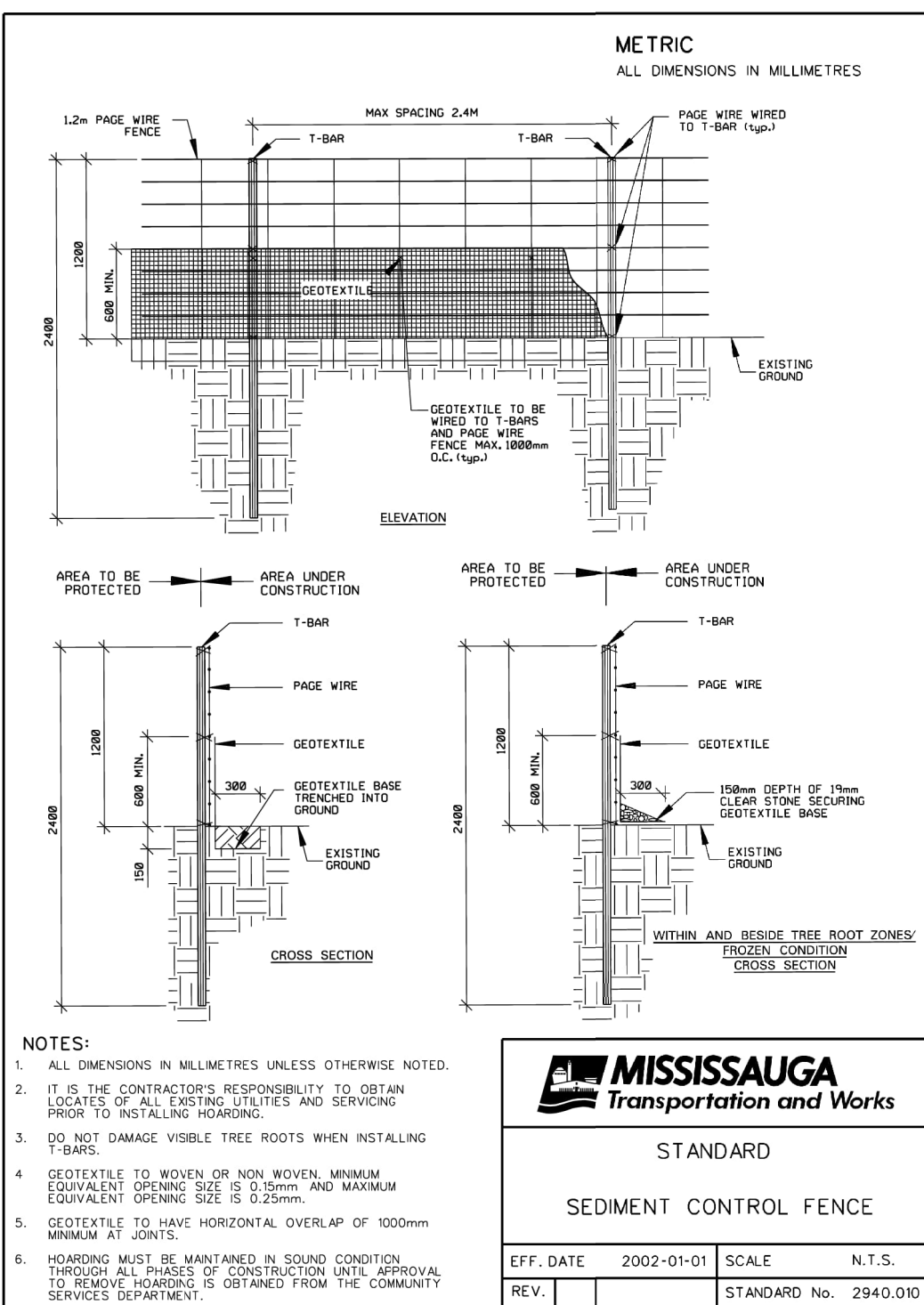
- NOTES:
1. INSTALL 135mm SLIDE TYPE VALVE BOX AND COVER (MARKED SEWER) OVER PVC CAP, NOT GLUED.
 2. USE EAST JORDAN IRON WORKS PRODUCT NO. 85508024 WITH 6800 SERIRM DROP LID OR APPROVED EQUIVALENT.
 3. FOR USE IN PAVED AREAS

SANITARY CLEANOUT DETAIL

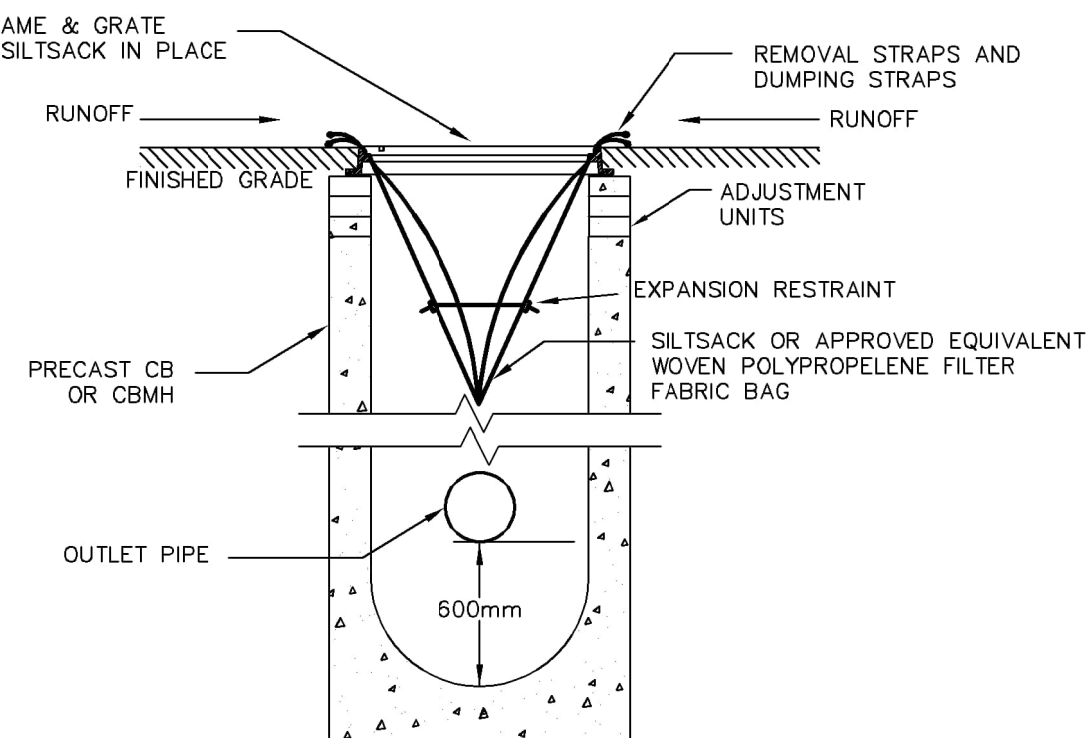
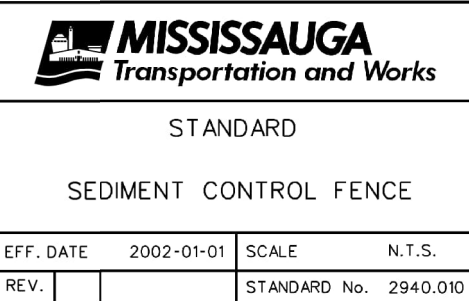
N.T.S.

**DOUBLE PROTECTION FENCE w/ STRAW BALE DETAIL**

N.T.S.



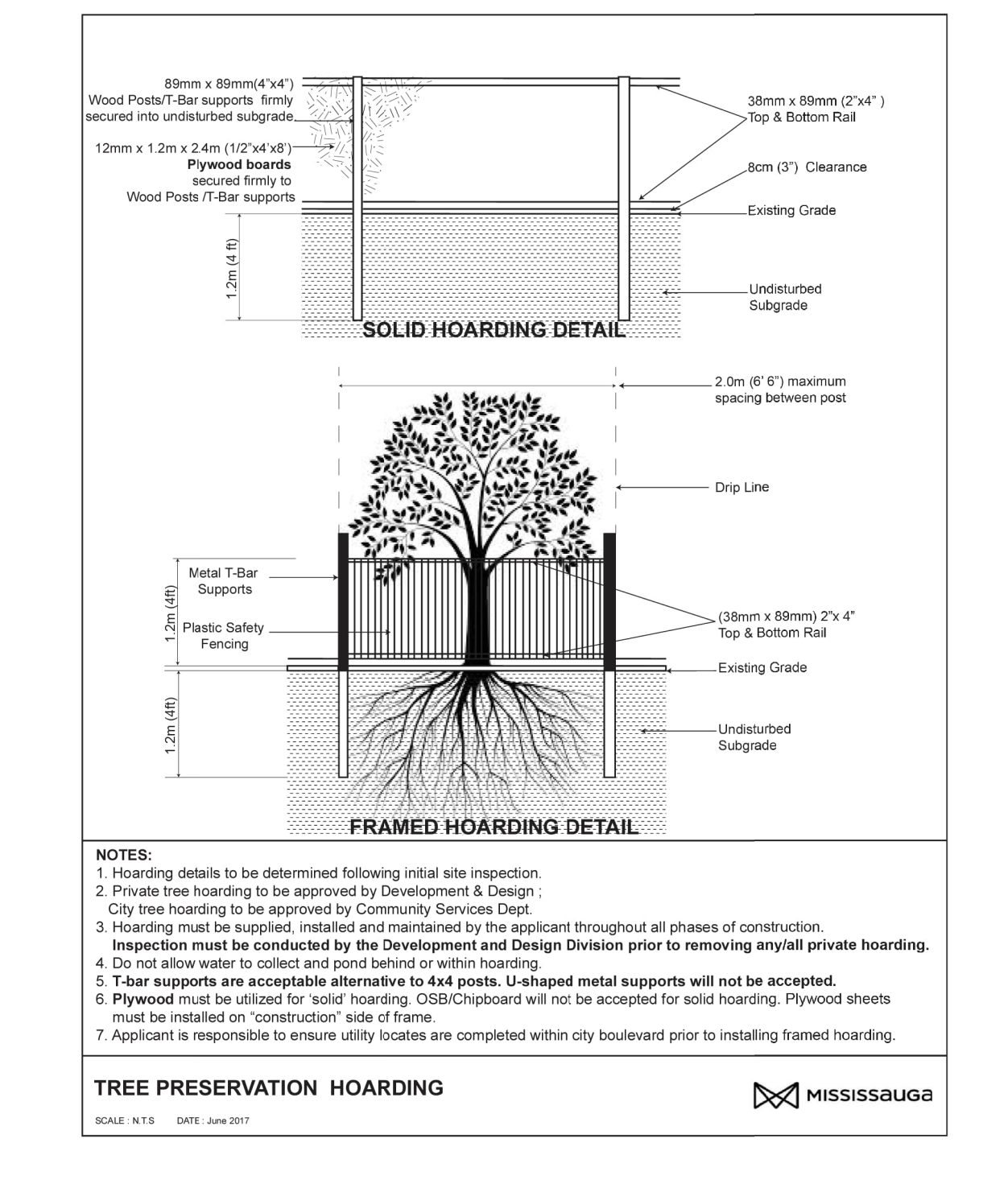
- NOTES:
1. ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED.
 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN LOCATES OF ALL EXISTING UTILITIES AND SERVICES PRIOR TO INSTALLING HOARDING.
 3. DO NOT DAMAGE VISIBLE TREE ROOTS WHEN INSTALLING T-BARS.
 4. GEOTEXTILE TO MOVE OR NOT WORKED. MINIMUM EQUIVALENT OPENING SIZE IS 8.0mm AND MAXIMUM EQUIVALENT OPENING SIZE IS 16.0mm.
 5. HOARDING MUST BE MAINTAINED IN SOUND CONDITION THROUGHOUT CONSTRUCTION. IF HOARDING IS OBTAINED FROM THE COMMUNITY SERVICES DEPARTMENT.

**MAINTENANCE SCHEDULE**

- INSPECT AFTER EVERY MAJOR RAIN EVENT.
- INSPECT EVERY 3 WEEKS MINIMUM.
- SILTSACK SHOULD NEVER BE OVER HALF FULL.
- FULL BAG CAN BE REMOVED, DUMPED, CLEANED AND REUSED (TO REMOVE INSERT 25mm REBAR INTO REMOVAL FLAP POCKETS) (TO DUMP INSERT 25mm REBAR INTO BOTH DUMPING STRAPS)

TEMPORARY SILTSACK SILTATION CONTROL IN CB

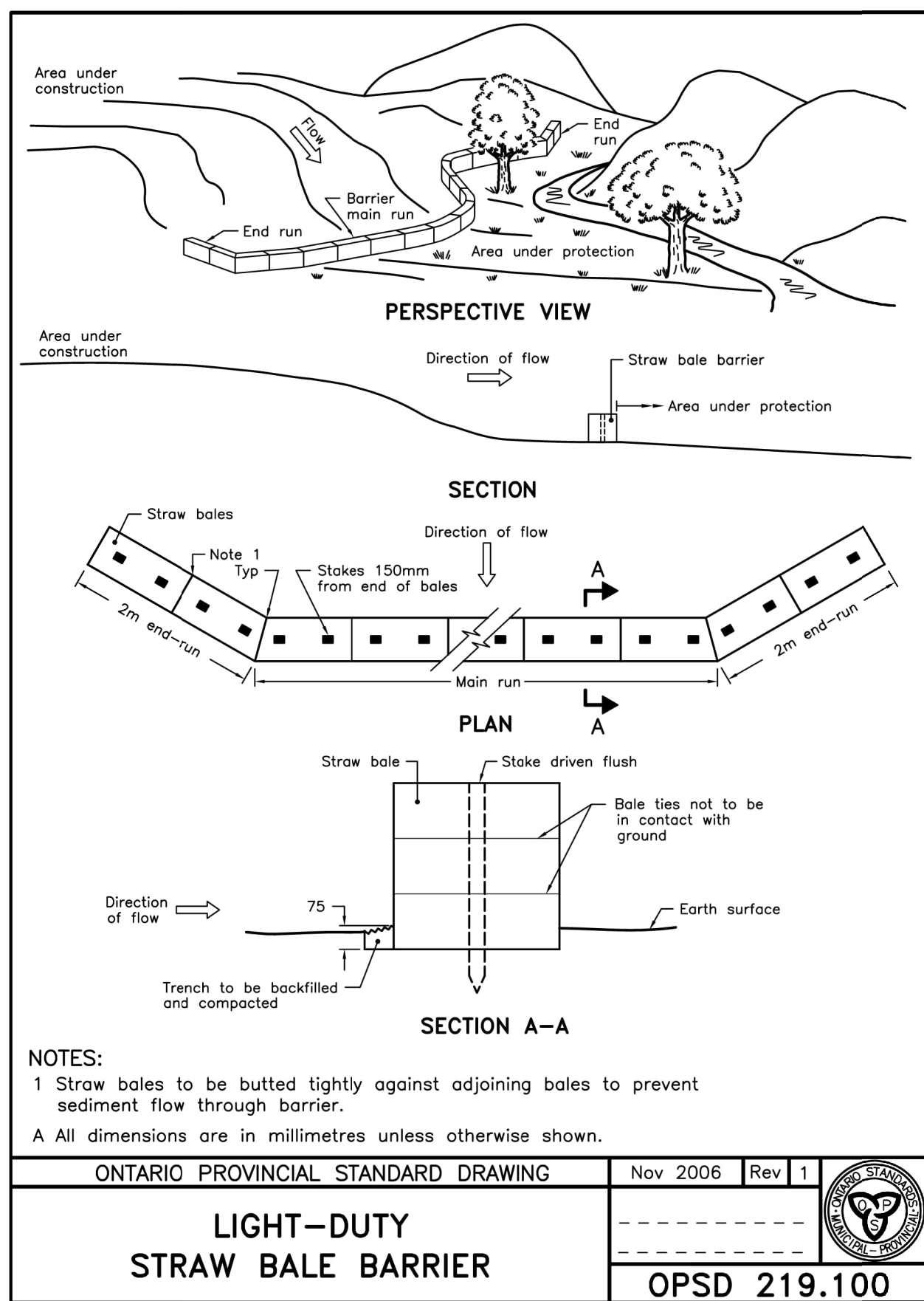
N.T.S.



- NOTES:
1. Hoarding details to be determined following initial site inspection.
 2. Private tree hoarding to be approved by Development & Design.
 3. City tree hoarding to be approved by Community Services Dept.
 3. Hoarding must be supplied, installed and maintained by the applicant throughout all phases of construction.
 4. Do not allow water to collect and pond behind or within hoarding.
 5. T-bar supports are acceptable alternative to 4x4 posts. U-shaped metal supports will not be accepted.
 6. Plywood must be utilized for solid hoarding. OSB/Chipboard will not be accepted for solid hoarding. Plywood sheets must be installed on "construction" side of frame.
 7. Applicant is responsible to ensure utility locates are completed within city boulevard prior to installing framed hoarding.

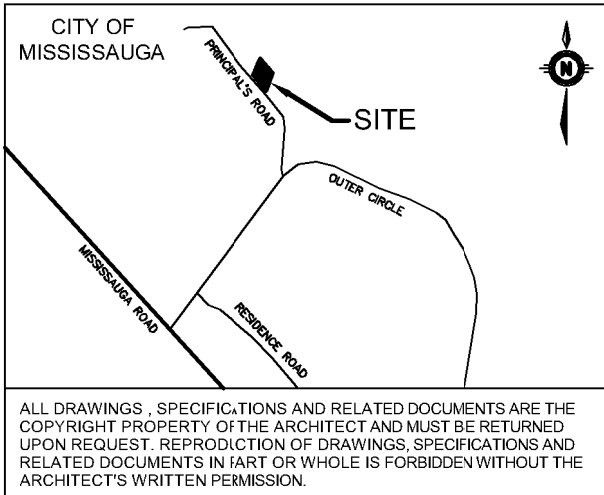
TREE PRESERVATION HOARDING

SCALE: N.T.S. DATE: June 2017



- NOTES:
- 1 Straw bales to be butted tightly against adjoining bales to prevent sediment flow through barrier.
- A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING		Nov 2006	Rev 1	
LIGHT-DUTY STRAW BALE BARRIER				
OPSD 219.100				



ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE PROPERTY OF MTE CONSULTANTS INC. ANY REPRODUCTION OR REUSE OF ANY PART OF THESE DOCUMENTS WITHOUT THE WRITTEN PERMISSION OF MTE CONSULTANTS INC. IS STRICTLY FORBIDDEN.

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 ISSUED AND SEALED BY THE ARCHITECT AND NAMED TITLE FOR CONSTRUCTION.

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 DIRECTION OF FRAMING. ALL SUCH ITEMS CAST INTO CONCRETE WALLS OR SLABS MUST SIMILARLY BE APPROVED BEFORE CONCRETE IS POURED.

GENERAL NOTE:

- i. I hereby certify that this drawing confirms in all respects to the site development plans and drawings of the project, and that it is the responsibility of the architect to ensure that the drawing is in accordance with the Building Division's requirements.
- ii. 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 be certified by the architect or engineer as being in conformity with the site development plan as approved by the City of Mississauga.
- iii. All exterior lighting will be erected onto the site and not infringe upon the adjacent properties.
- iv. All rooftop mechanical unit shall be screened from view by the applicant.
- v. Parking spaces reserved to 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.
- vi. The applicant will be responsible for ensuring that all plans conform to Transport Canada's restrictions.
- vii. Grades will be met with a 3% maximum slope at the property lines and within the site.
- viii. All damaged areas are to be reinstated with topsoil and sod prior to the release of security.
- ix. Storage shown on the site development plan is for information purposes only. All signs will be subject to the provisions of Sign by-law 0064-2002, as amended, and a separate sign application will be required through the Building Division.
- x. Any fencing adjacent to municipal lands is to be located 15 cm (6.0 in.) inside the property line.
- xi. Only "shades" lighting fixtures are permitted for all residential, except for detached and semi-detached dwellings within 60 m (196 ft.) of a residentially zoned property and must conform to the Engineer Certified Lighting Plan.
- xii. The Engineer Certified Lighting Plan must be signed by the consulting Engineer.
- xiii. The Owner consents to agree to construct and install "shades" lighting fixtures on the subject lands, in conformity with the Site Plan and Engineer Certified Lighting Plan to the satisfaction of the City of Mississauga.
- xiv. The applicant will be responsible for ensuring that all plans conform to Transport Canada's restrictions.
- xv. Where planting is to be located in landscaped areas on top of an underground parking structure, it is the responsibility of the applicant to arrange the coordination of the design of the underground parking structure with the Landscape Architect and the Consulting Engineer. Underground parking structures with landscaping are to be capable of supporting the following loads:
 - 15 cm of drainage gravel plus 40 cm topsoil for shrubs
 - 15 cm of drainage gravel plus 80 cm topsoil for trees
 - Or
 - Precast concrete "drainage" with a compressive strength of 1000 Kpa plus 40 cm topsoil for shrubs
 - Precast concrete "drainage" with a compressive strength of 1000 Kpa plus 60 cm topsoil for shrubs
 - Precast concrete "drainage" with a compressive strength of 1000 Kpa plus 80 cm topsoil for trees
 - Tensar 600 or approved equal
- xvi. 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.
- xvii. Continuous 15 cm high barrier type poured concrete curbing will be provided between all asphalt and landscaped areas throughout the site.
- xviii. All utility companies will be notified for location prior to the installation of the hoarding that lies within the site and within the limit of the City boulevard area.

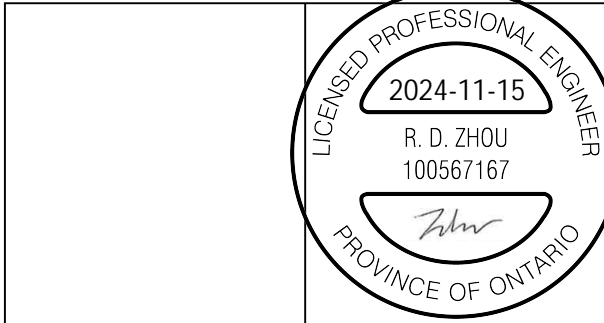
PROJECT NAME:
PRE-ENGINEERED BUILDING
PROJECT ADDRESS:
3355 PRINCIPALS ROAD
CITY IDENTIFIER:
11680800 (Z-24)
LEGAL DESCRIPTION:
PT LITS 3, 5 RANGE 1NDS., LT 4, PT LITS 3.5 RANGE 2 NDS., PT LITS 3, 4 RANGE 3 NDS., PT BLK M PL 550, PT RDAL BTH RANGE 2 & RANGE 3 NDS. - 43R1817/PTS 1-6, 43R-1826/PT 1
SITE PLAN APPLICATION NUMBER:
SP 21004 W8

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

No.	DATE	DESCRIPTION
-----	------	-------------

PRE-ENGINEERED BUILDING

University of Toronto Mississauga
3359 Mississauga Road



Baird Sampson
Neuert

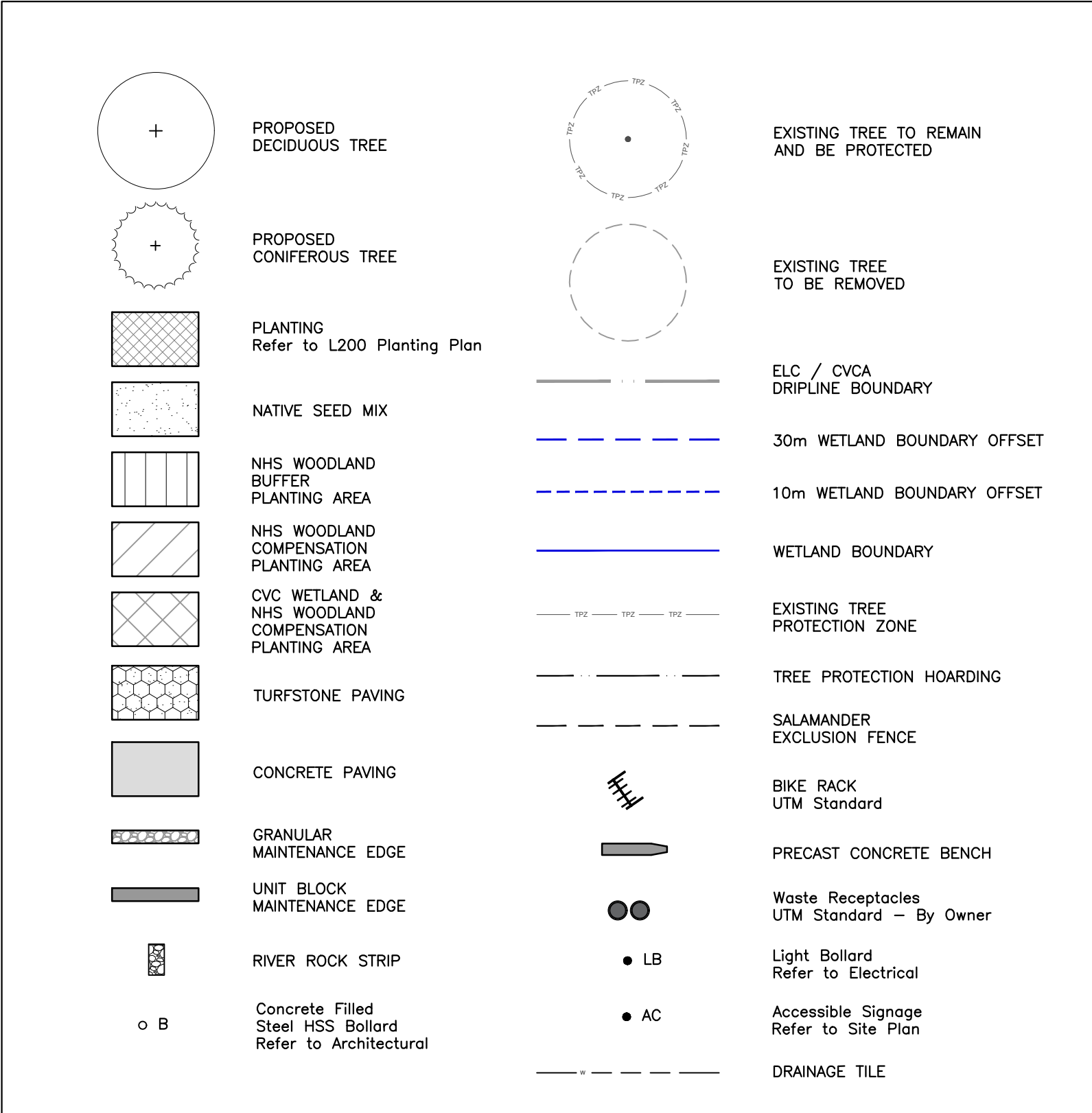
117 Peter Street, Suite 305
Toronto, Ontario
Canada M5V 1P9
T: (416) 363-8877
F: (416) 363-4029
mail@bsarchitects.com

NOTES AND DETAILS PLAN

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

C2.3

LEGEND



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

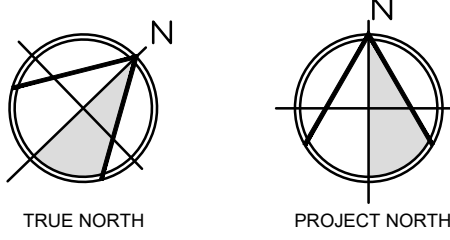
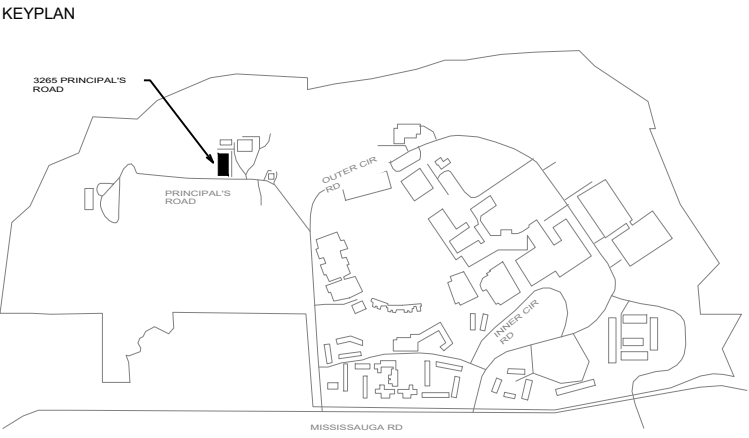
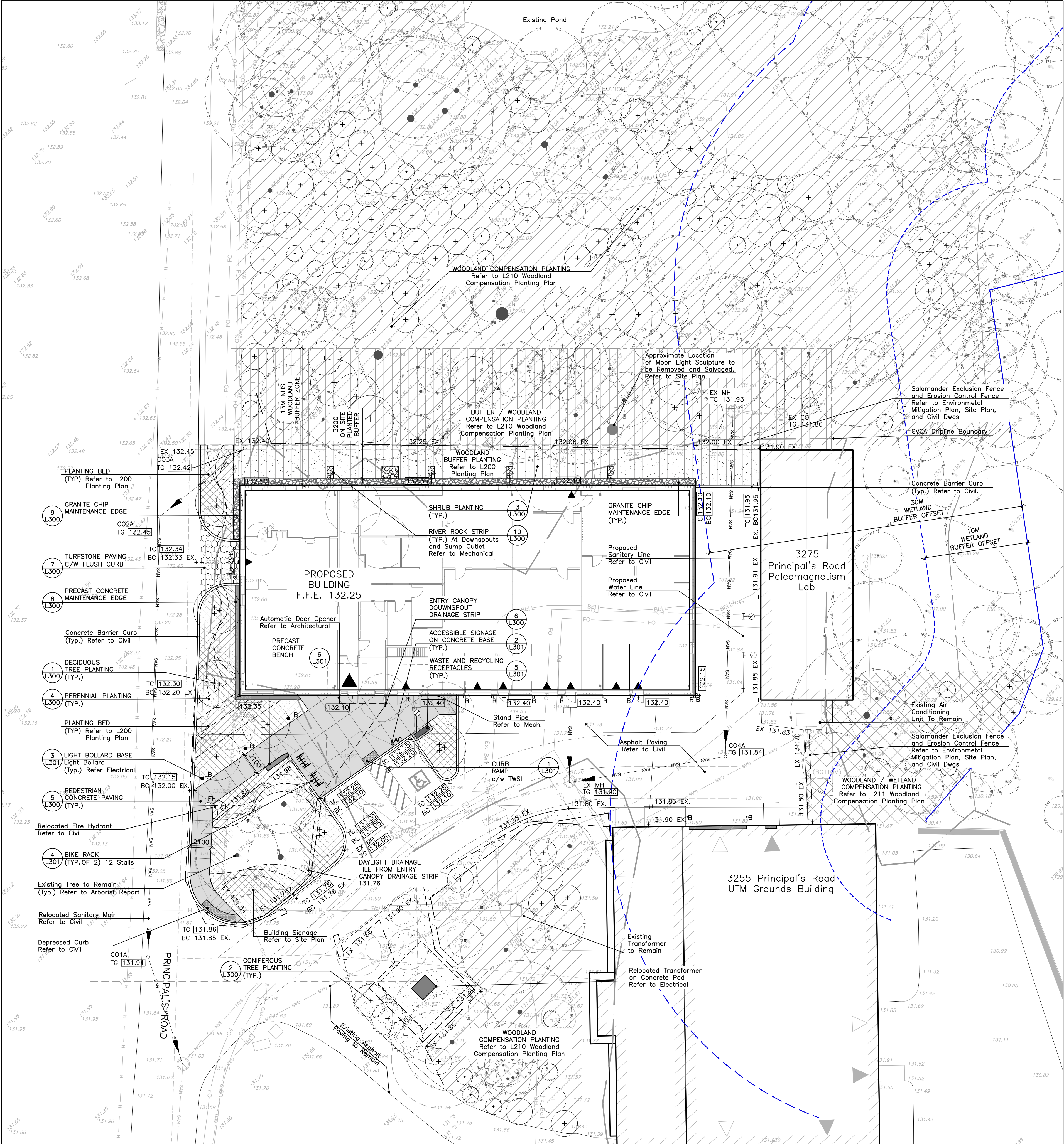
BRAD FLEISHER

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

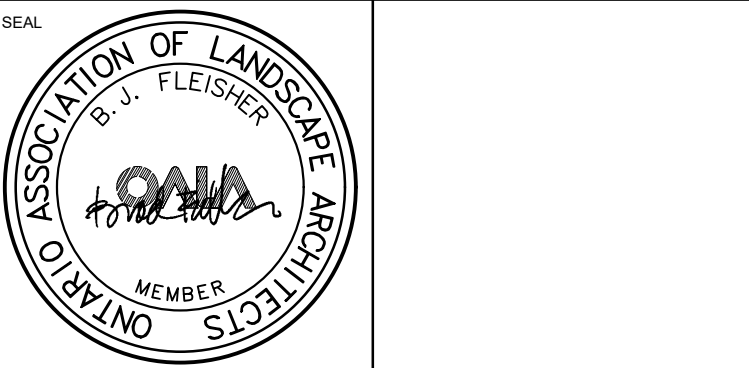
PROJECT

Pre-Engineered Building

3359 Mississauga Road

TITLE

LANDSCAPE PLAN



REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY FLEISHER RUDOLPH PARTNERSHIP INC. (FRP) 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 FRP. DO NOT SCALE THIS DRAWING.

COPYRIGHT ©	FRP Inc.	SHEET NO.:
SCALE:	1:200	
DATE:	November 2023	
PROJECT NO.:	231533	
DRAWN BY:	JBKH	
CHECKED BY:	KWBF	

L100

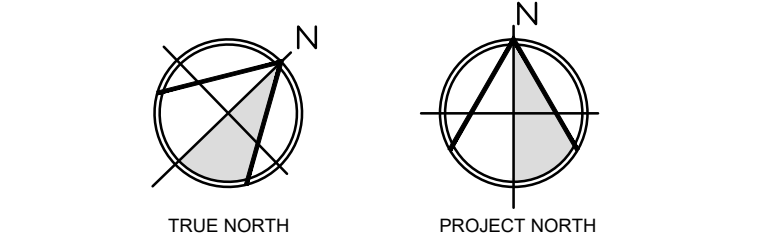
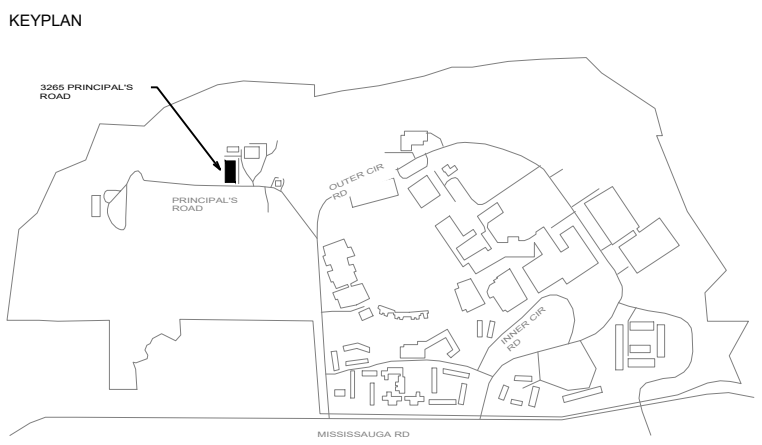
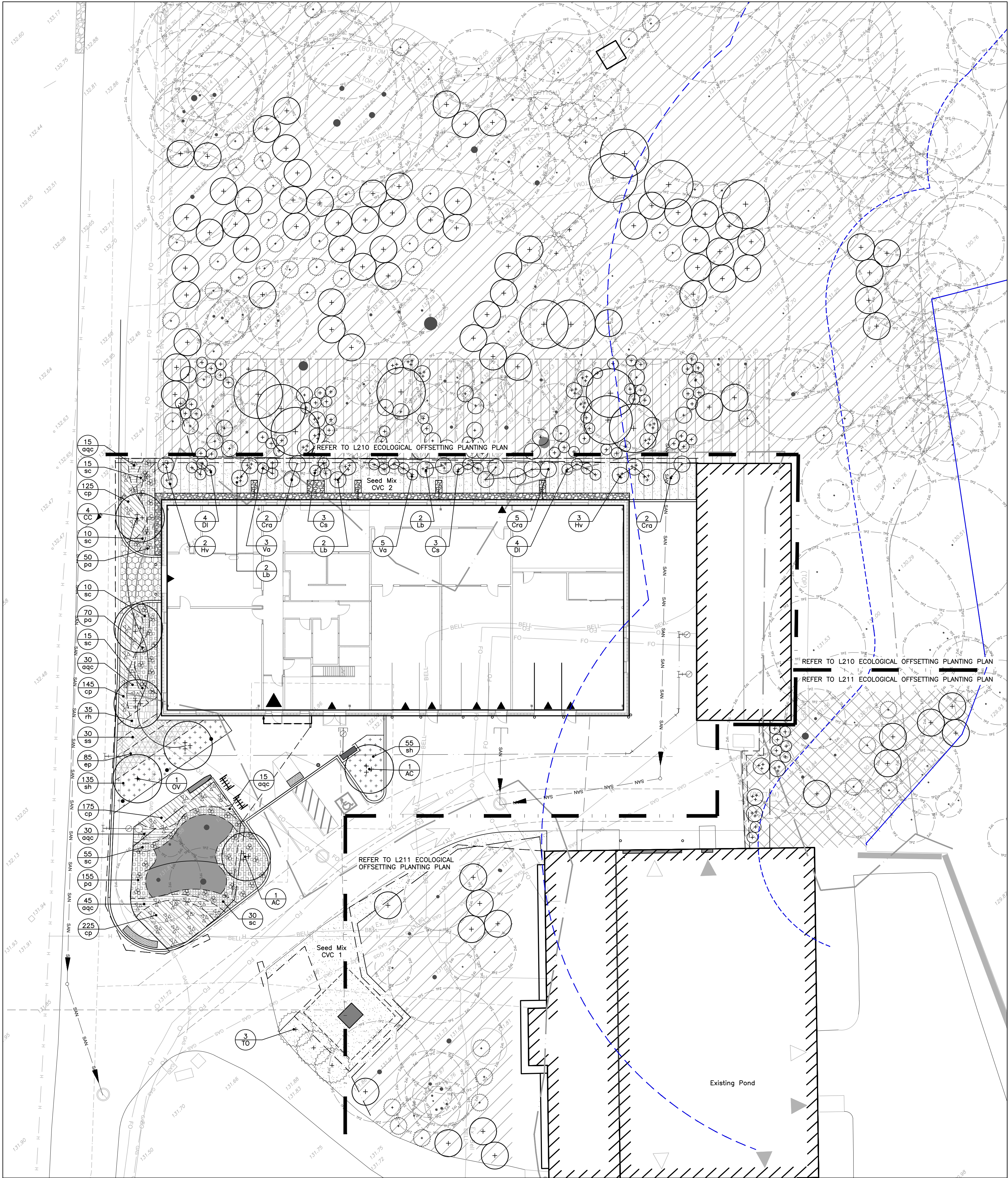
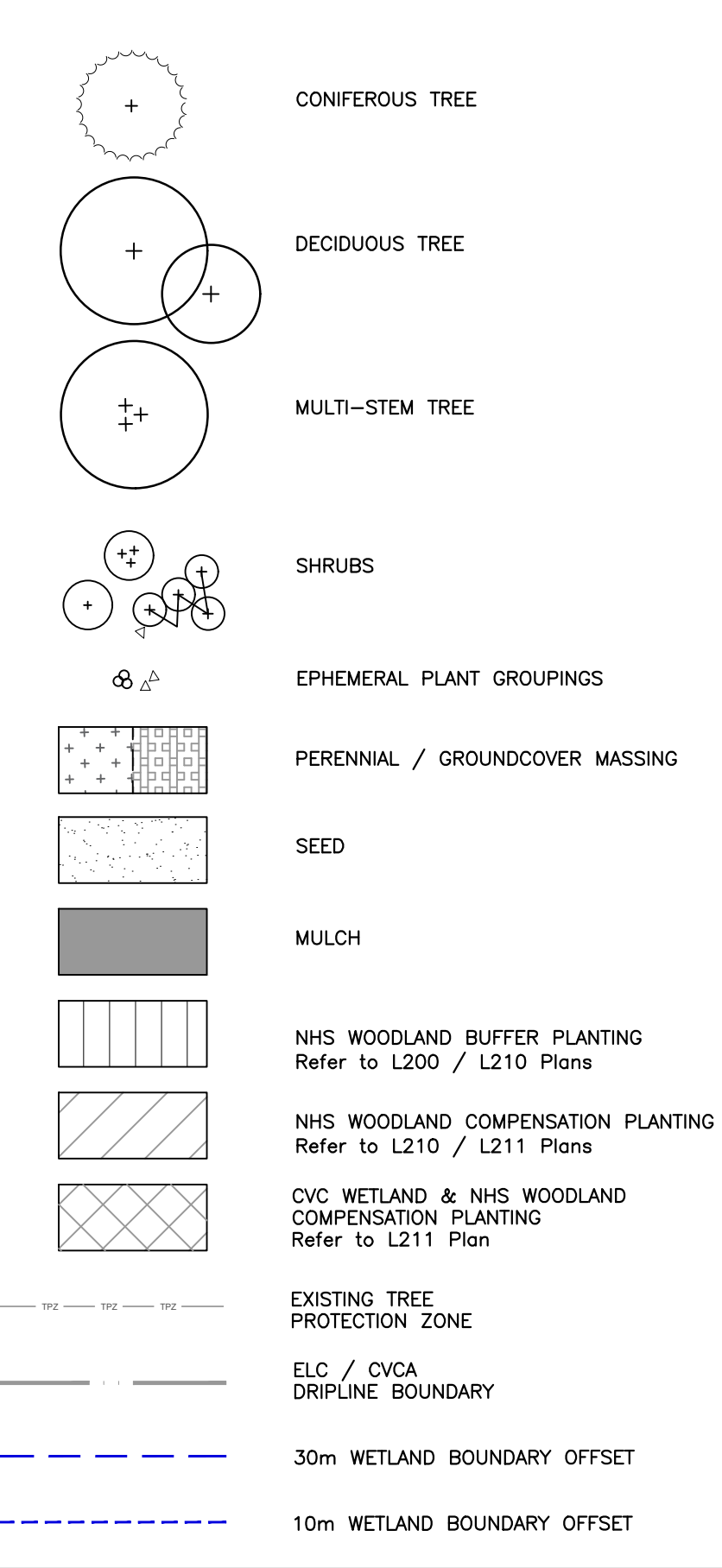
PLANTING NOTES:

- 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.

PLANT LIST

SYMBOL	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	CONDITION	COMMENTS
TREES						
CC	Cercis canadensis	Eastern Redbud	4	45mm	WB	Treeform
OV	Ostrya virginiana	Ironwood	1	60mm	WB	
TO	Thuja occidentalis	Eastern White Cedar	3	1.8m ht.	BB	
		Total	8			
SHRUBS						
AC	Amelanchier canadensis	Shadblow Serviceberry	2	2.25m ht.	WB	3-Stem Clump
Cs	Cornus sericea	Red Osier Dogwood	6	60cm, 3 gal	Potted	
Cra	Cornus racemosa	Gray Dogwood	9	125cm, 3 gal.	Potted	
DI	Dieriva lonicera	Bush Honeysuckle	8	60cm, 3 gal		
Hv	Hamelalis virginiana	Witchhazel	5	125cm, 3 gal.	Potted	Clump
Lb	Lindera benzoin	Spicebush	6	125cm, 3 gal.		Clump
Rc	Ribes cynosbati	Eastern Prickly Gooseberry	8	60cm, 3 gal	Potted	
Ro	Rubus odoratus	Flowering raspberry	10	60cm, 3 gal	Potted	
Va	Viburnum acerifolium	Mapleleaf viburnum	8	60cm, 3 gal	Potted	
		Total	62			
PERENNIALS						
aqc	Aquilegia canadensis	Wild Columbine	135	1 gal	Potted	
ep	Echinacea purpurea	Purple Coneflower	85	1 gal	Potted	
rh	Rudbeckia hirta	Black Eyed Susan	35	1 gal	Potted	
sc	Symphyotrichum cordifolium	Heart leaved aster	135	1 gal	Potted	
GROUNDCOVERS						
cp	Carex pensylvanica	Oak Sedge	670	1 gal	Potted	
FERNS						
pa	Polystichum acrostichoides	Christmas Fern	275	1 gal	Potted	
GRASSES						
ss	Schizachyrium scoparium	Little Bluestem	30	1 gal	Potted	
sh	Sporobolus heterolepis	Prairie Dropseed	190	1 gal	Potted	
EPHEMERALS						
dc	Dicentra cucullaria	Dutchman's Breeches	175	1 gal	Potted	Plant in Group of 5-7
tg	Trillium grandiflorum	White Trillium	225	1 gal	Potted	Plant in Group of 5-7
SEED MIXTURE - CVC 1 - UPLAND MIX						
Scientific Name	Common Name	%	SEED MIXTURE - CVC 2 - LOWLAND MIX (Semi-Moist)			
Anemone canadensis	Canada Anemone	1%	Carex vulpinoidea	Fox Sedge	25%	Common Name
Asclepias syriaca	Common Milkweed	2%	Elymus virginicus var. virginicus	Virginia Wildrye	35%	Common Name
Carex granularis	Limestone Meadow Sedge	15%	Juncus tenuis	Path Rush	5%	Common Name
Elymus virginicus var. virginicus	Virginia Wildrye	40%	Poa palustris	Fowl Bluegrass	25%	Common Name
Euthamia graminifolia	Grass Leaved Goldenrod	1%	Scirpus atrovirens	Dark-green Bulrush	5%	Common Name
Monarda fistulosa var. fistulosa	Wild Bergamot	1%	Verbena hastata	Blue Vervain	5%	Common Name
Oenothera biennis	Common Evening Primrose	25%	Cover Crop for Seed Mixture			
Rudbeckia hirta	Black Eyed Susan	10%	Avena sativa	Oats		Seed at 1000
Solidago canadensis var. canadensis	Canada Goldenrod	1%	Hordeum vulgare	Barley		Seed at 1000
Solidago juncea	Early Goldenrod	1%				
Solidago nemoralis ssp. Nemoralis	Gray-stemmed Goldenrod	1%				
Symphyotrichum novae-angliae	New England Aster	1%				
Verbena urticifolia	White Vervain	1%				
Cover Crop for Seed Mixture						
Avena sativa	Oats	40%				
Hordeum vulgare	Barley	45%				

LEGEND



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

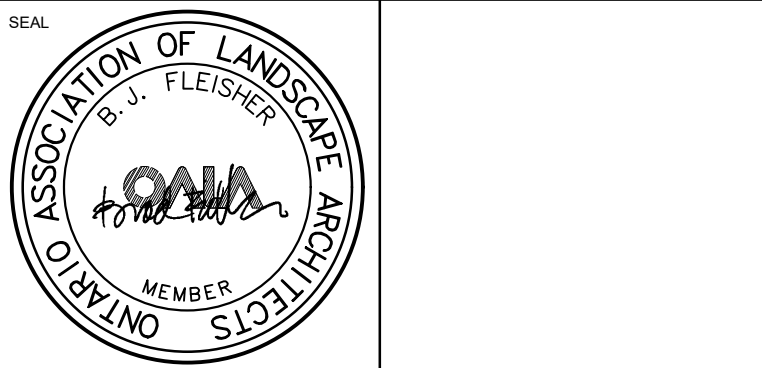


University of Toronto Mississauga

Pre-Engineered Building

3359 Mississauga Road

SITE PLANTING PLAN

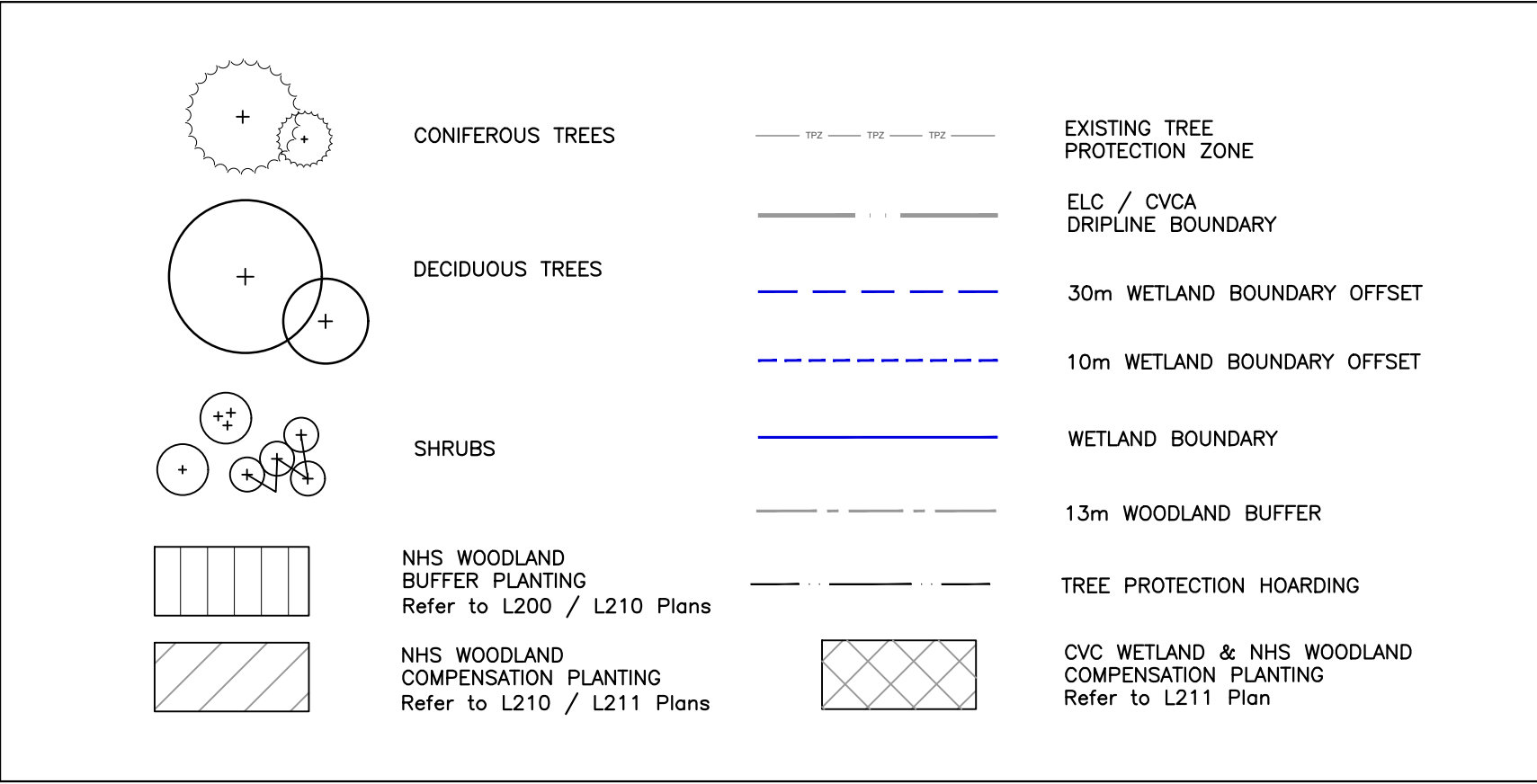


REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY FRP INC. IS PROHIBITED. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO FRP. DO NOT SCALE THIS DRAWING.

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

L200

LEGEND



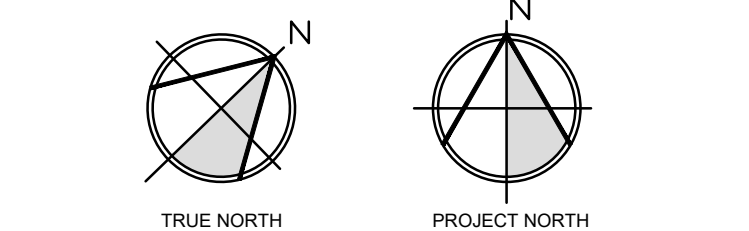
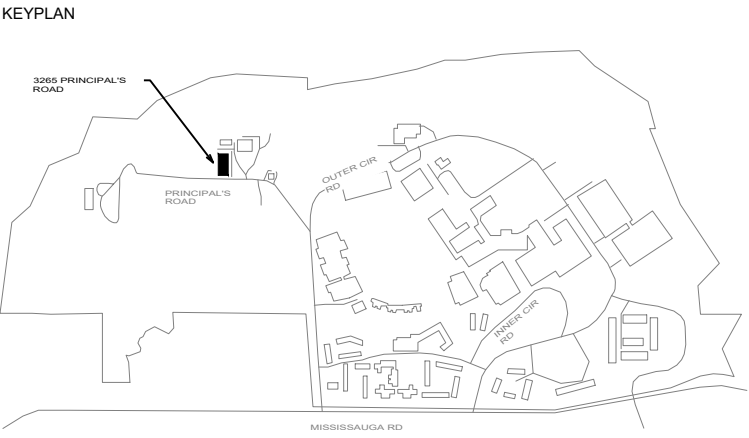
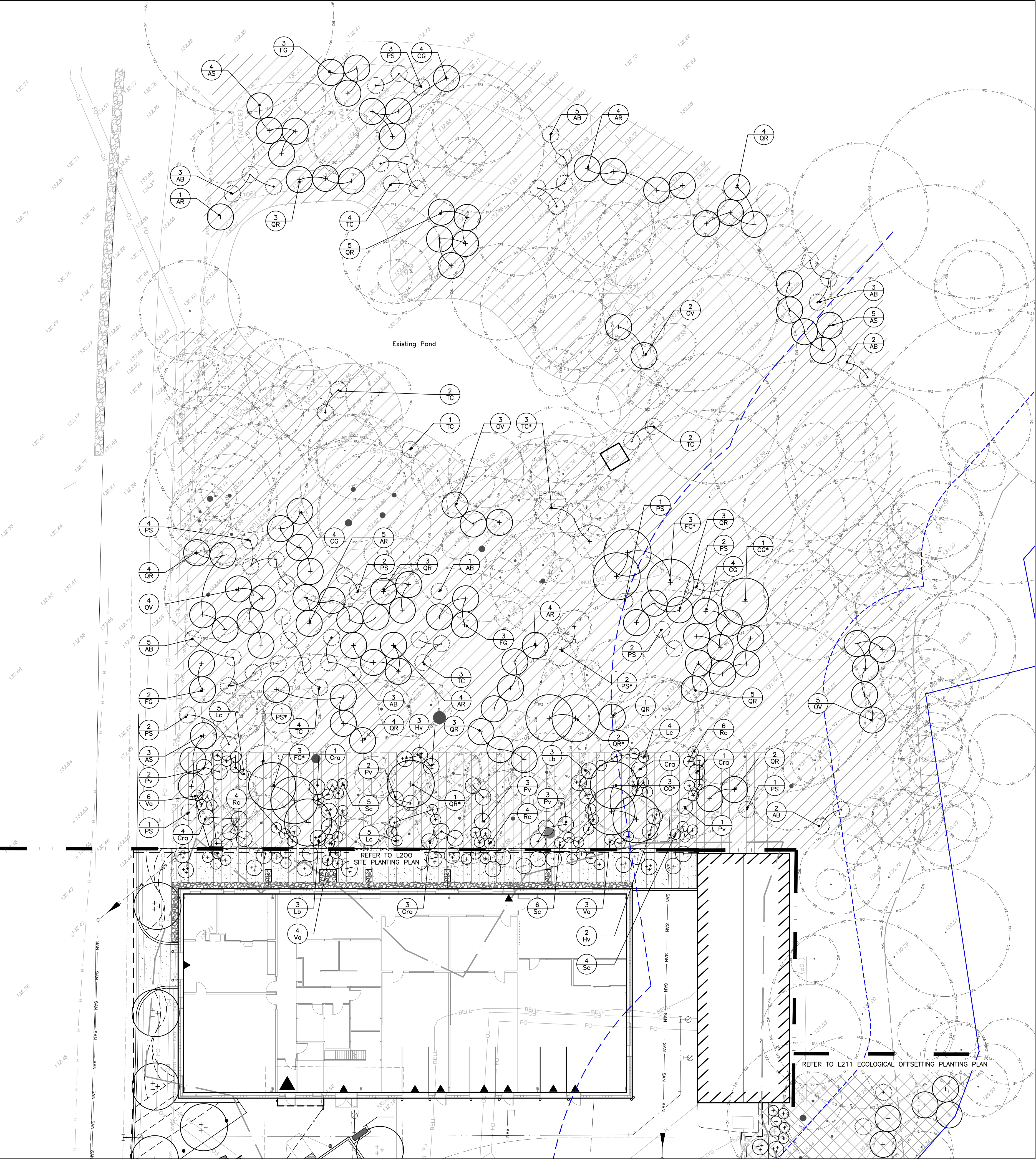
ECOLOGICAL OFFSETTING PLANT LIST

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			Seed at a rate of 250g/90m2	
Scientific Name	Common Name		%	
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%	
Symphytichum novae-angliae	New England Aster		1%	
Verbena urticifolia	White Vervain		1%	
Cover Crop for Seed Mixture			Seed at a rate of 150g/100m2	
Avena sativa	Oats		40%	
Elymus canadensis	Canada Wildrye		15%	
Hordeum vulgare	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

DISCLAIMER:

NOT FOR CONSTRUCTION



CLIENT

University of Toronto Mississauga

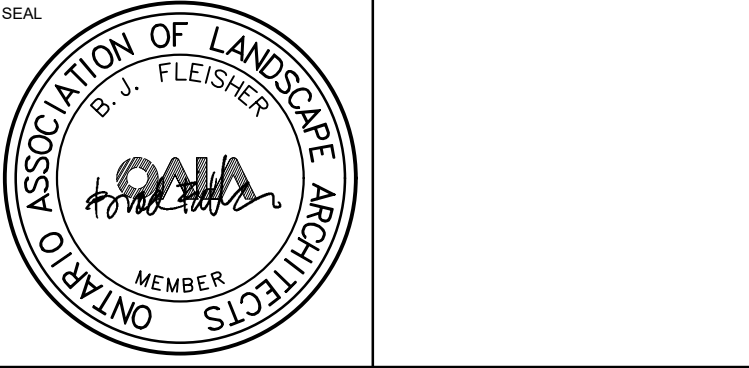
PROJECT

Pre-Engineered Building

3359 Mississauga Road

TITLE

ECOLOGICAL OFFSETTING PLANTING PLAN

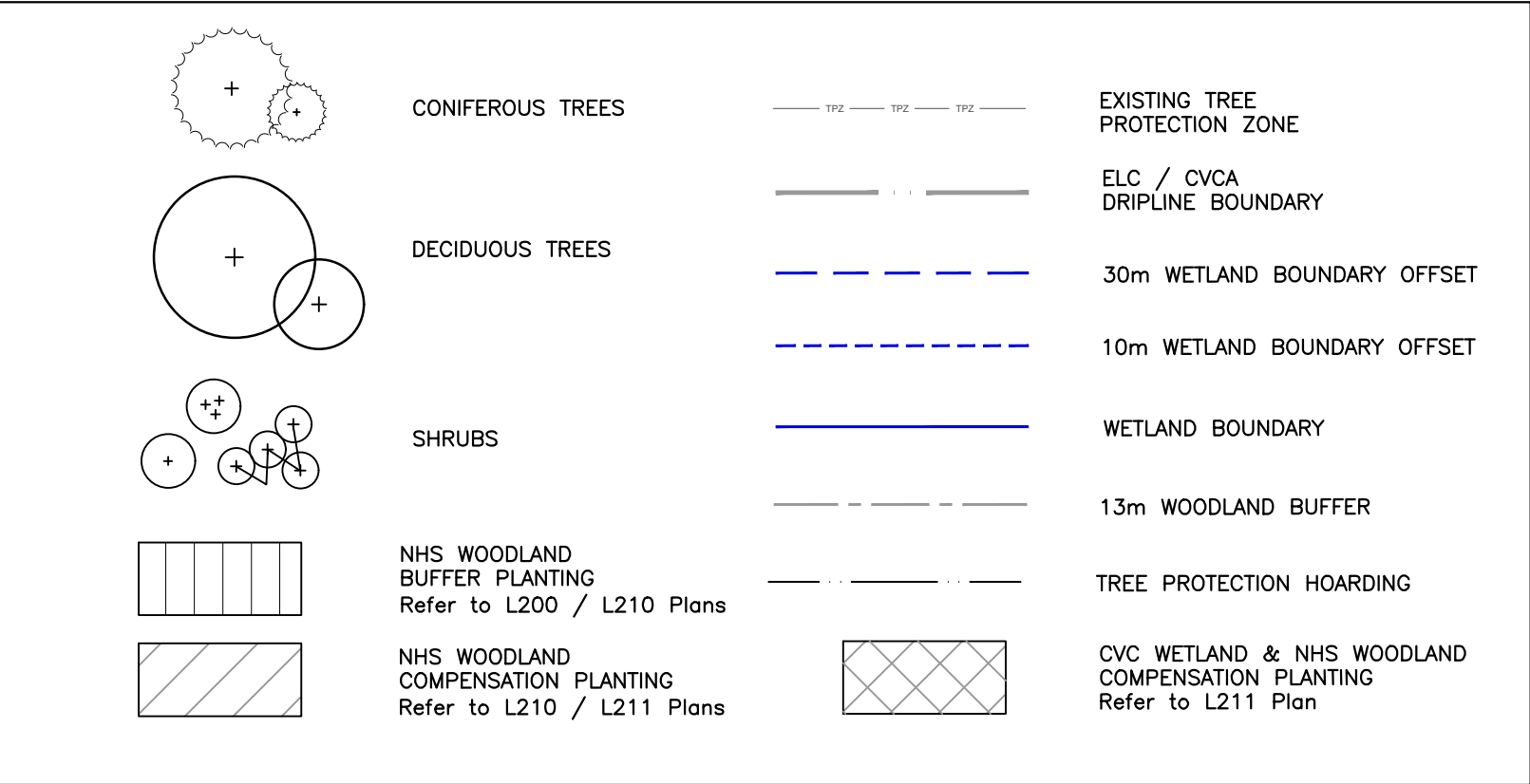


REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY FLEISHER RODDY PARTNERSHIP INC. (FRP) IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO FRP. DO NOT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

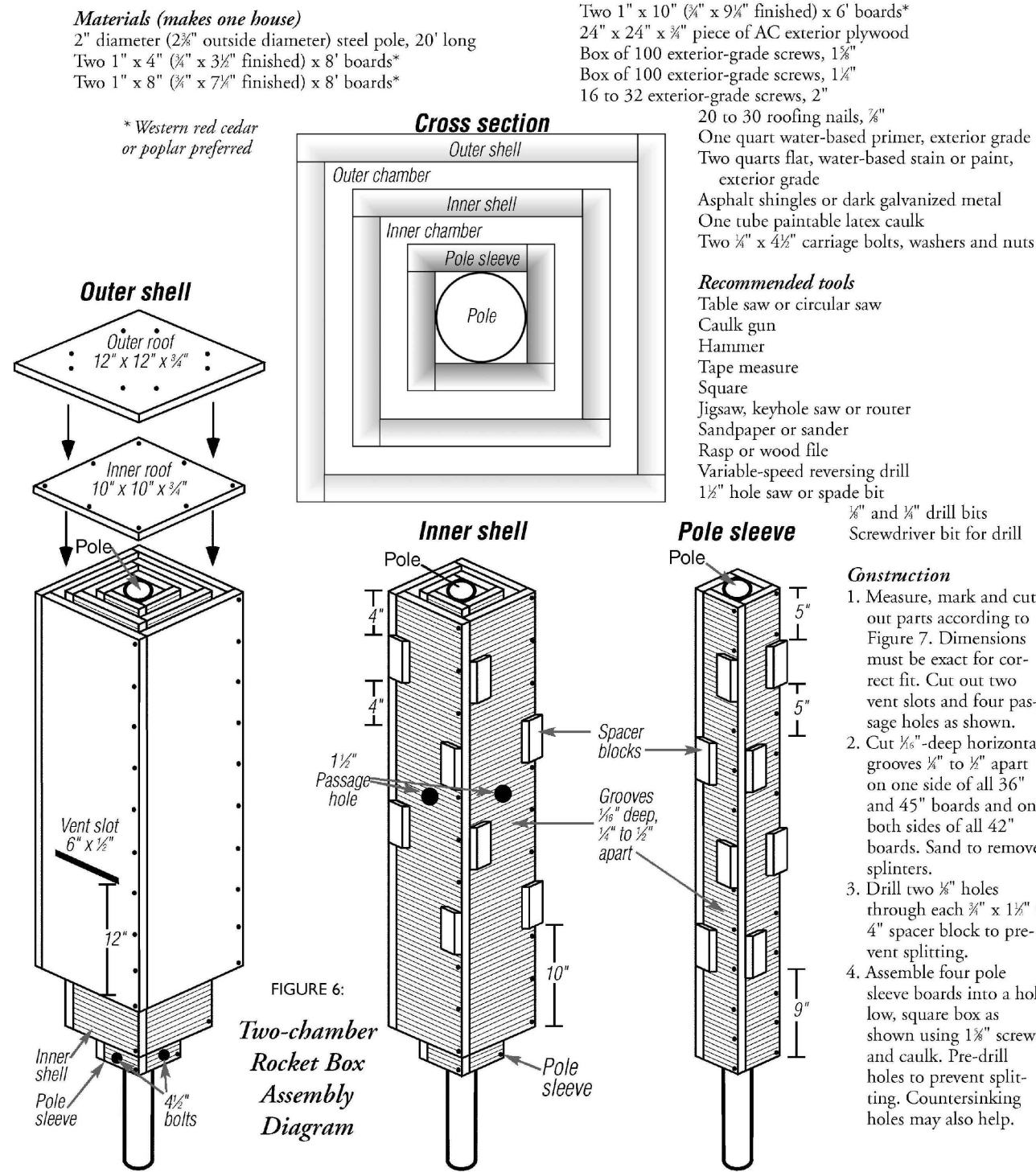
SCALE: 1:200	SHEET NC:
DATE: November 2023	
PROJECT NO: 231533	
DRAWN BY: JBNH	
CHECKED BY: KWB	

L210

LEGEND



Two-chamber Rocket Box

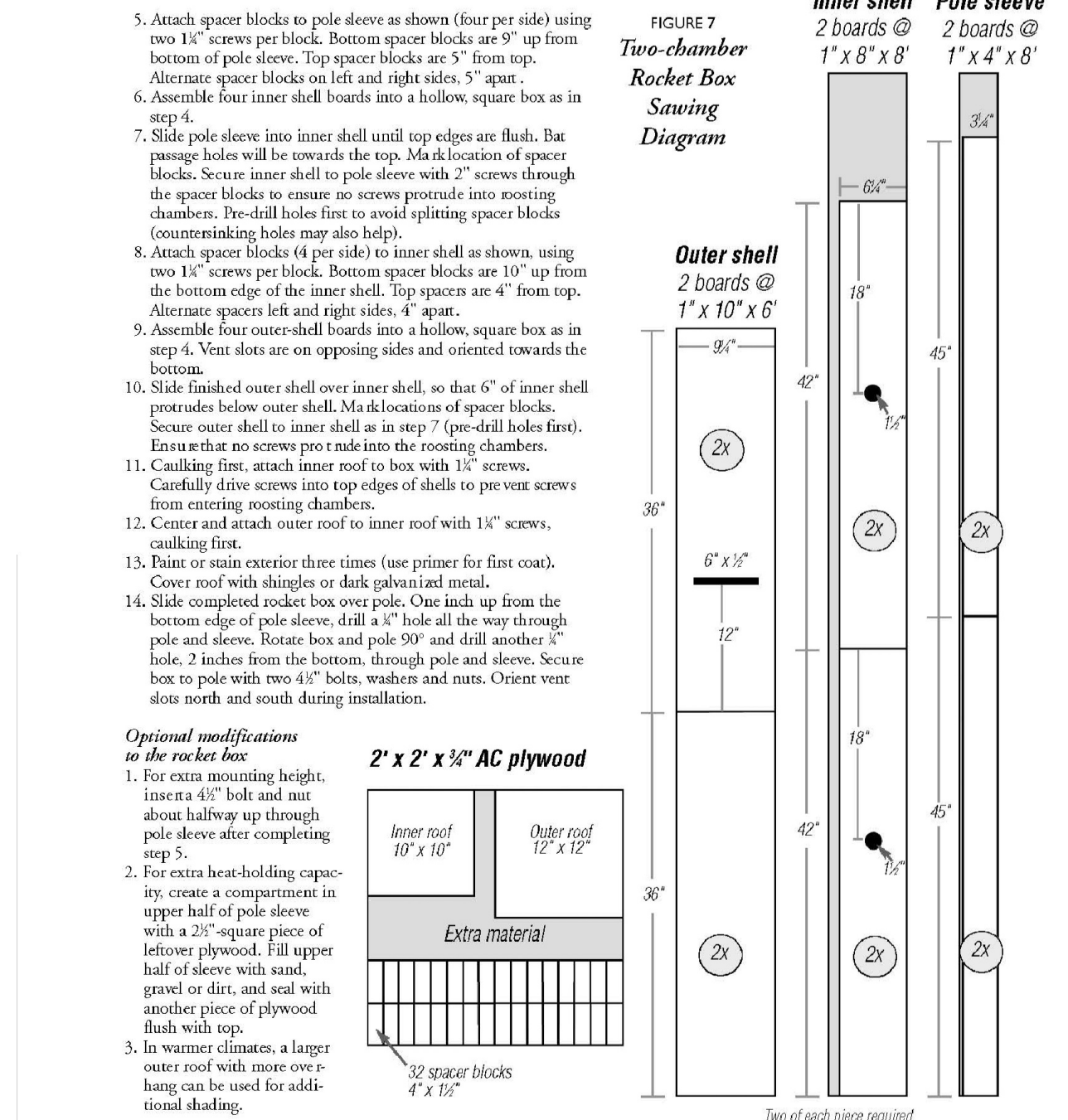


BAT BOX

NTS

1

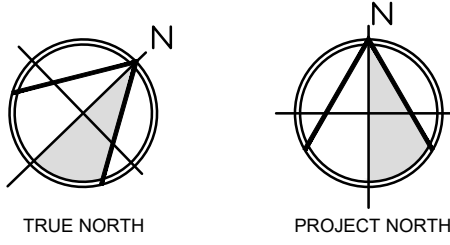
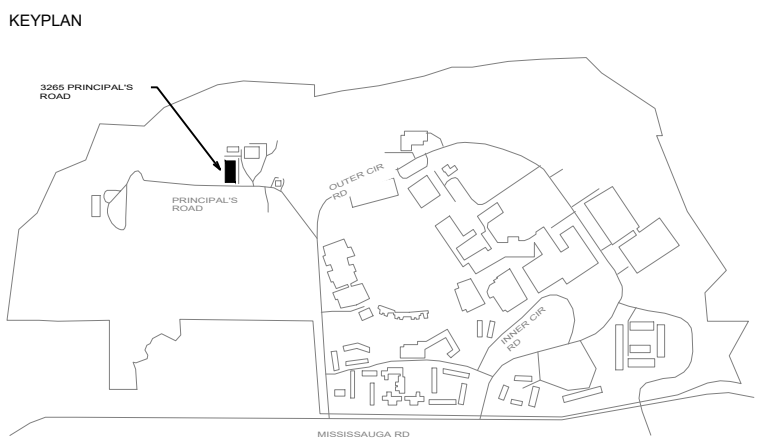
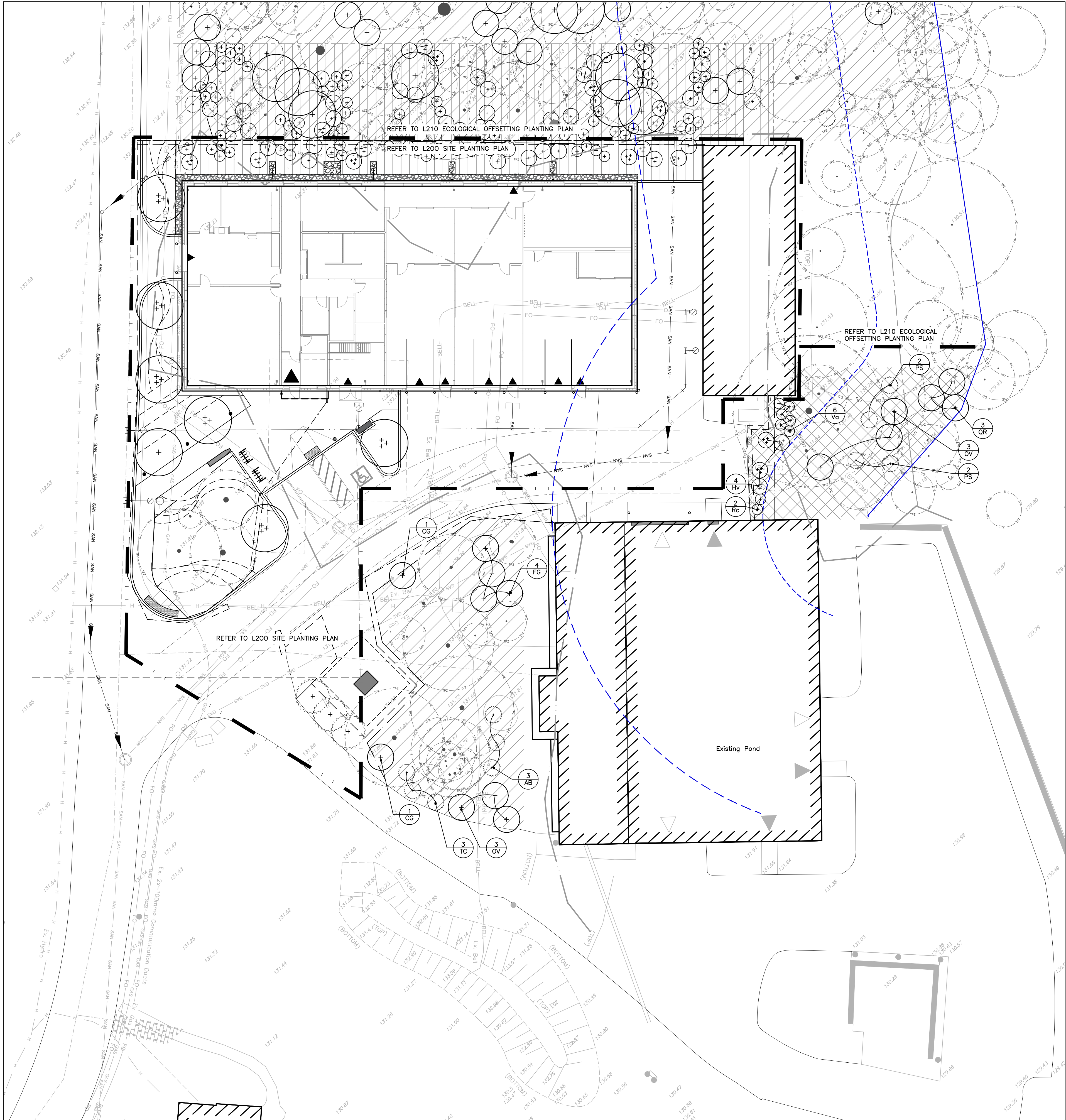
© Bat Conservation International, www.batscan.org
Adapted from The Bat House Builder's Handbook



BAT BOX

NTS

2



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

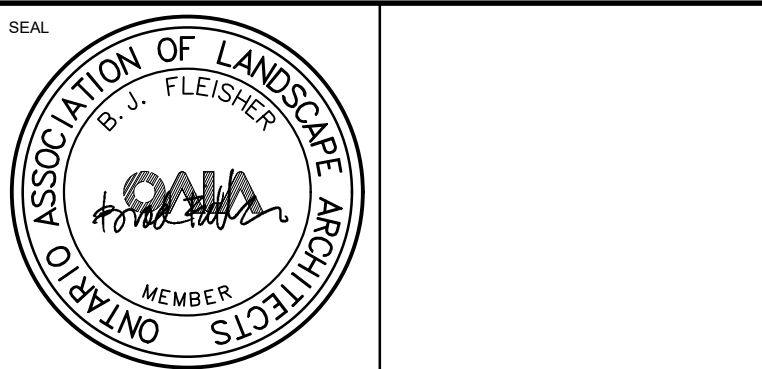
PROJECT

Pre-Engineered Building

3359 Mississauga Road

TITLE

ECOLOGICAL OFFSETTING PLANTING PLAN

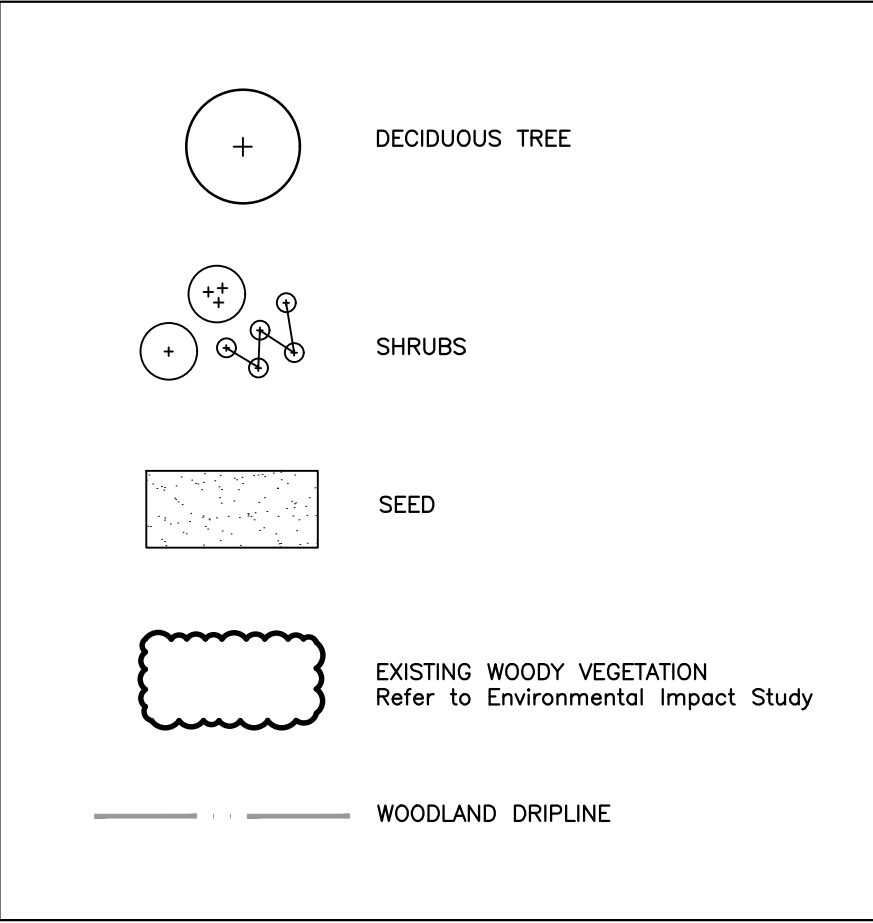


REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY FRP INC. IS PROHIBITED. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO FRP. DO NOT SCALE THIS DRAWING.

COPYRIGHT ©	FRP Inc.
SCALE: 1:200	SHEET NC:
DATE: November 2023	
PROJECT NO.: 231533	
DRAWN BY: JBKH	
CHECKED BY: KBWF	

L211

LEGEND

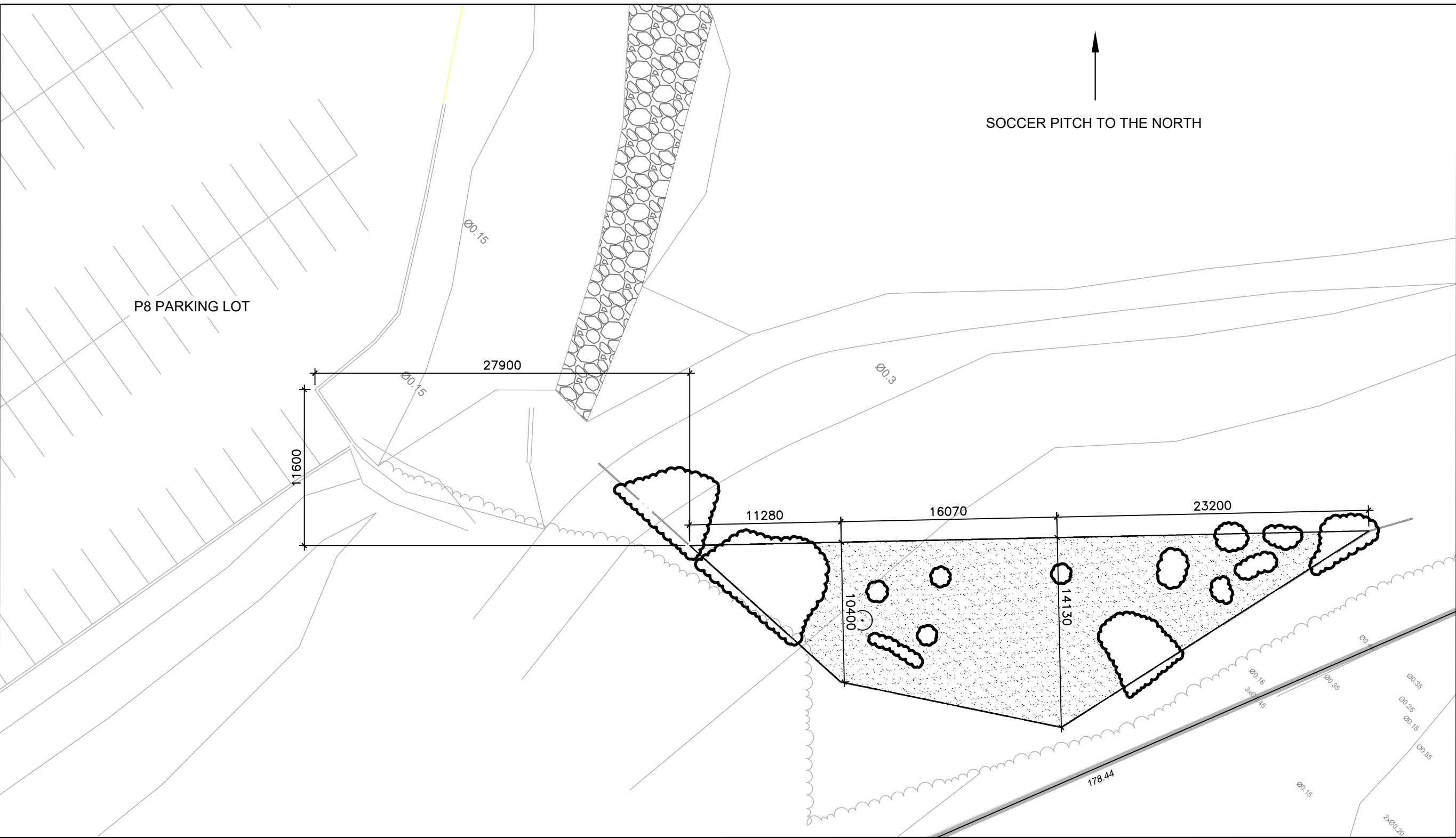


LAND-BASED OFFSETTING NOTES:

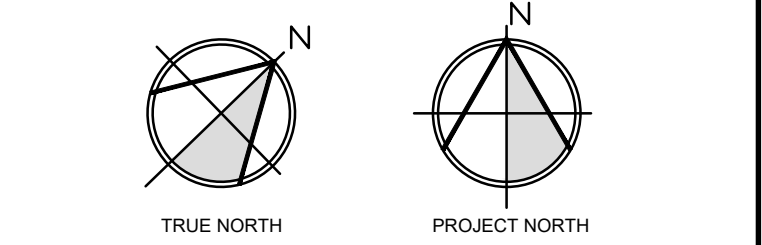
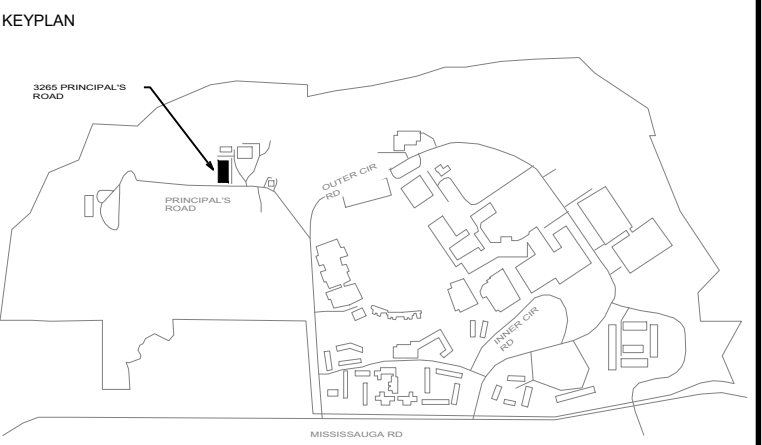
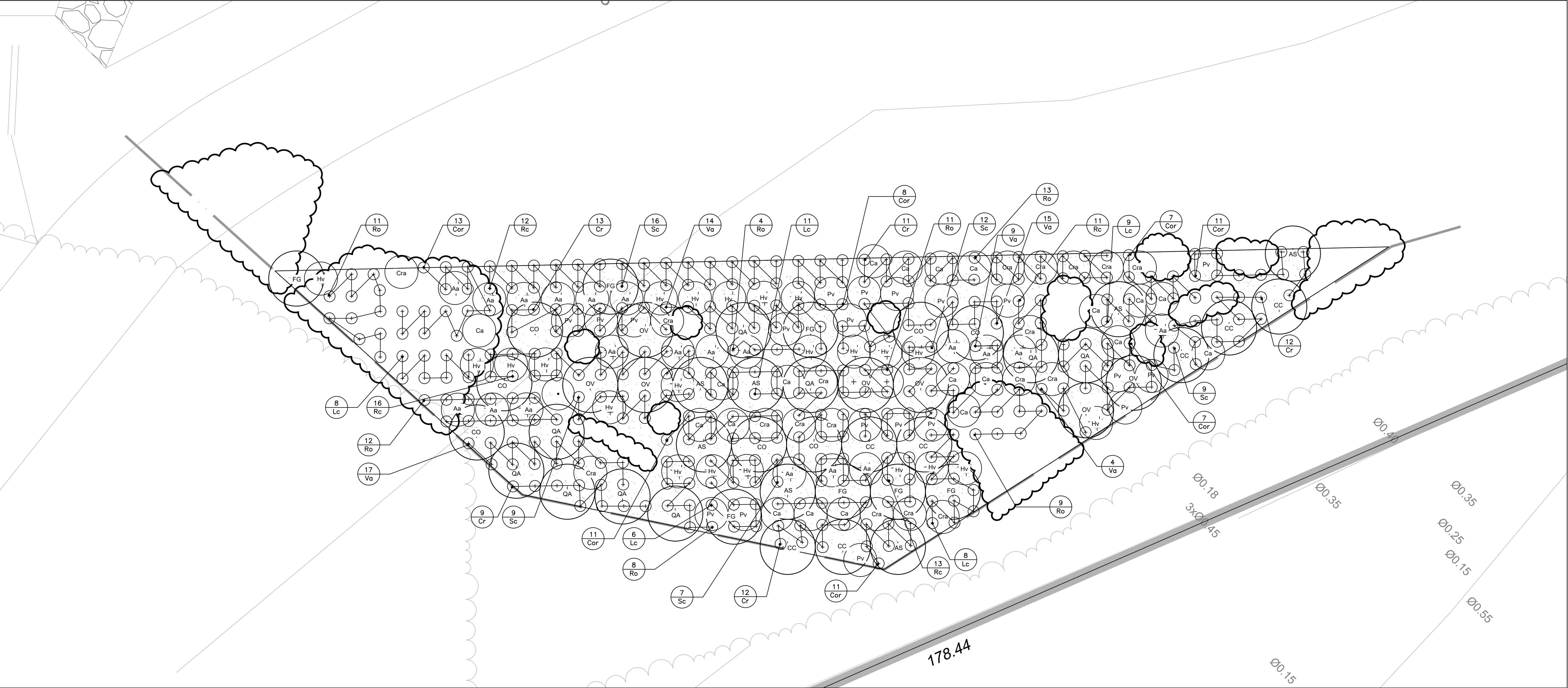
- Field adjustments may be required for all proposed plant material based on presence of existing vegetation to remain. Refer to Environmental Impact Study prepared by Sumac Environmental Consulting.
- Total Land-Based Offsetting Area to be 422 sq.m.
- Tree Planting to be minimum 2.5m o.c. spacing.
-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

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	Muscledwood	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	Hamelis 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			
SEED MIXTURE - CVC 1 - UPLAND MIX			Seed at a rate of 250g/90m2			
Scientific Name		Common Name	%			
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%			
Symphyotrichum novae-angliae		New England Aster	1%			
Verbena urticifolia		White Vervain	1%			
Cover Crop for Seed Mixture			Seed at a rate of 150g/100m2			
Avena sativa		Oats	40%			
Elymus canadensis		Canada Wildrye	15%			
Hordeum vulgare		Barley	45%			



LAND-BASED OFFSETTING LAYOUT 1:300



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

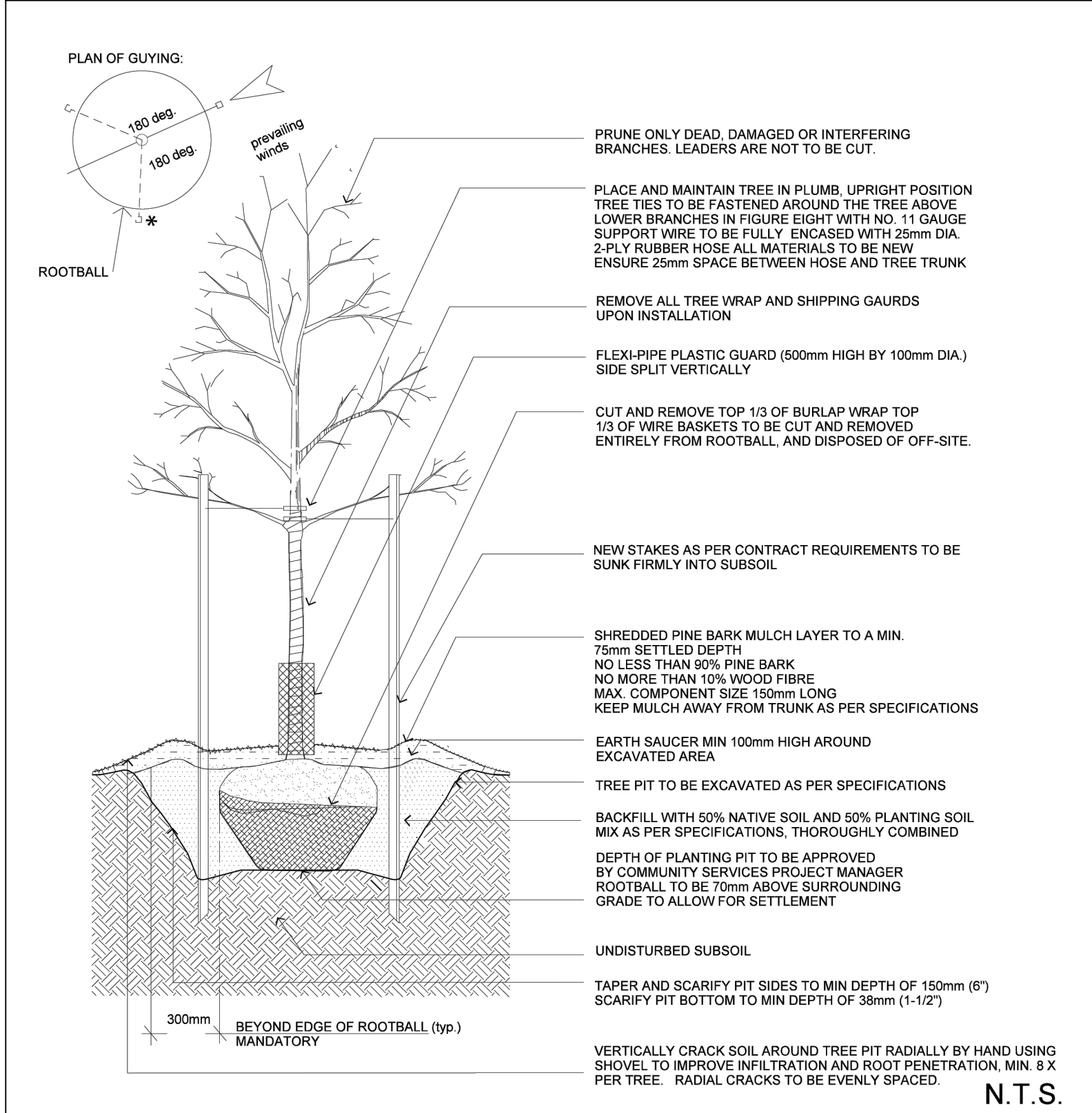
PROJECT
Pre-Engineered Building
3359 Mississauga Road

TITLE
LAND-BASED OFFSETTING
PLANTING PLAN

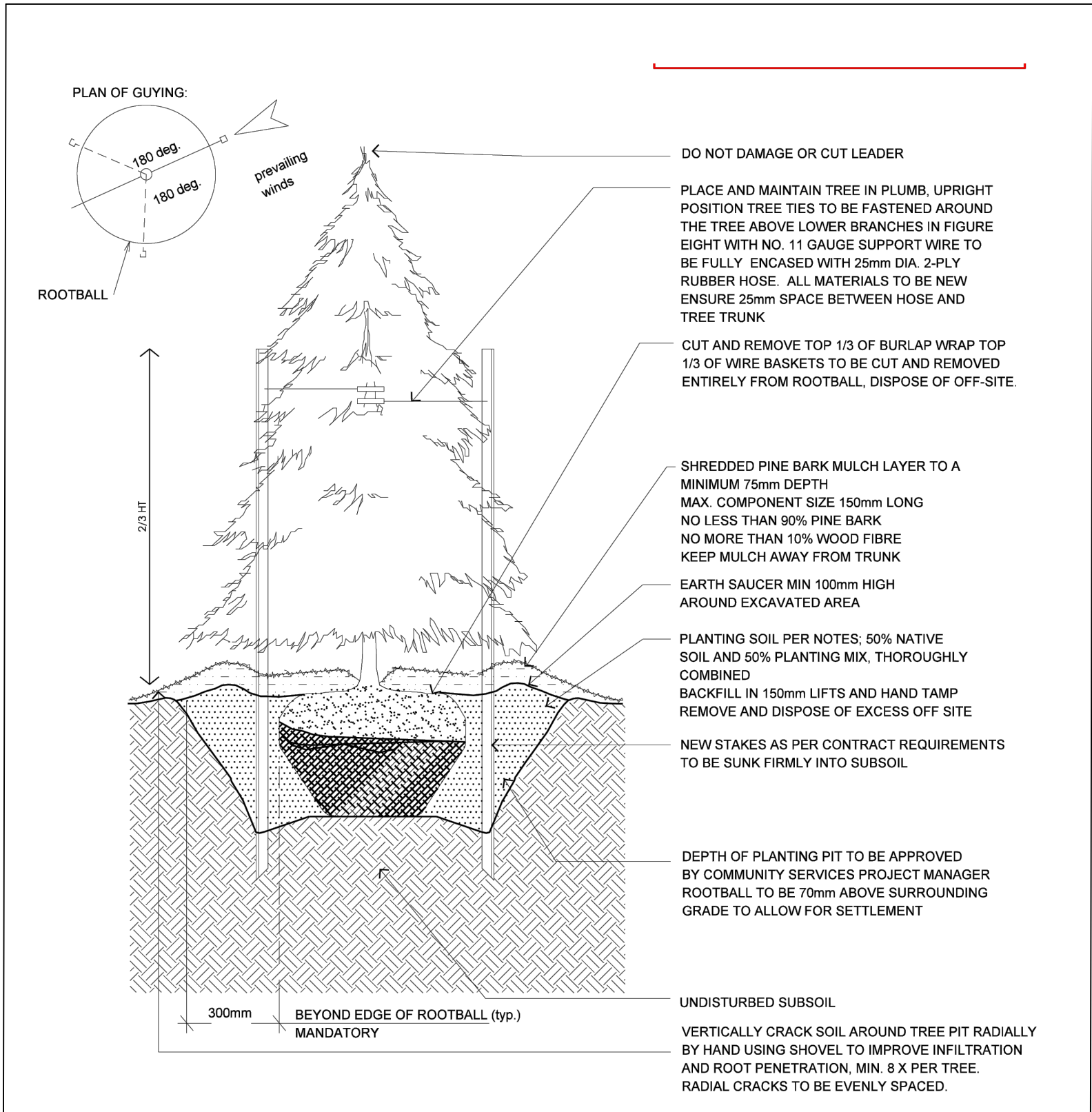


REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY
FLEISHER RIDDY PARTNERSHIP INC. (FRP) IS FORBIDDEN. CONTRACTORS SHALL VERIFY
AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT
ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO
FRP. DO NOT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

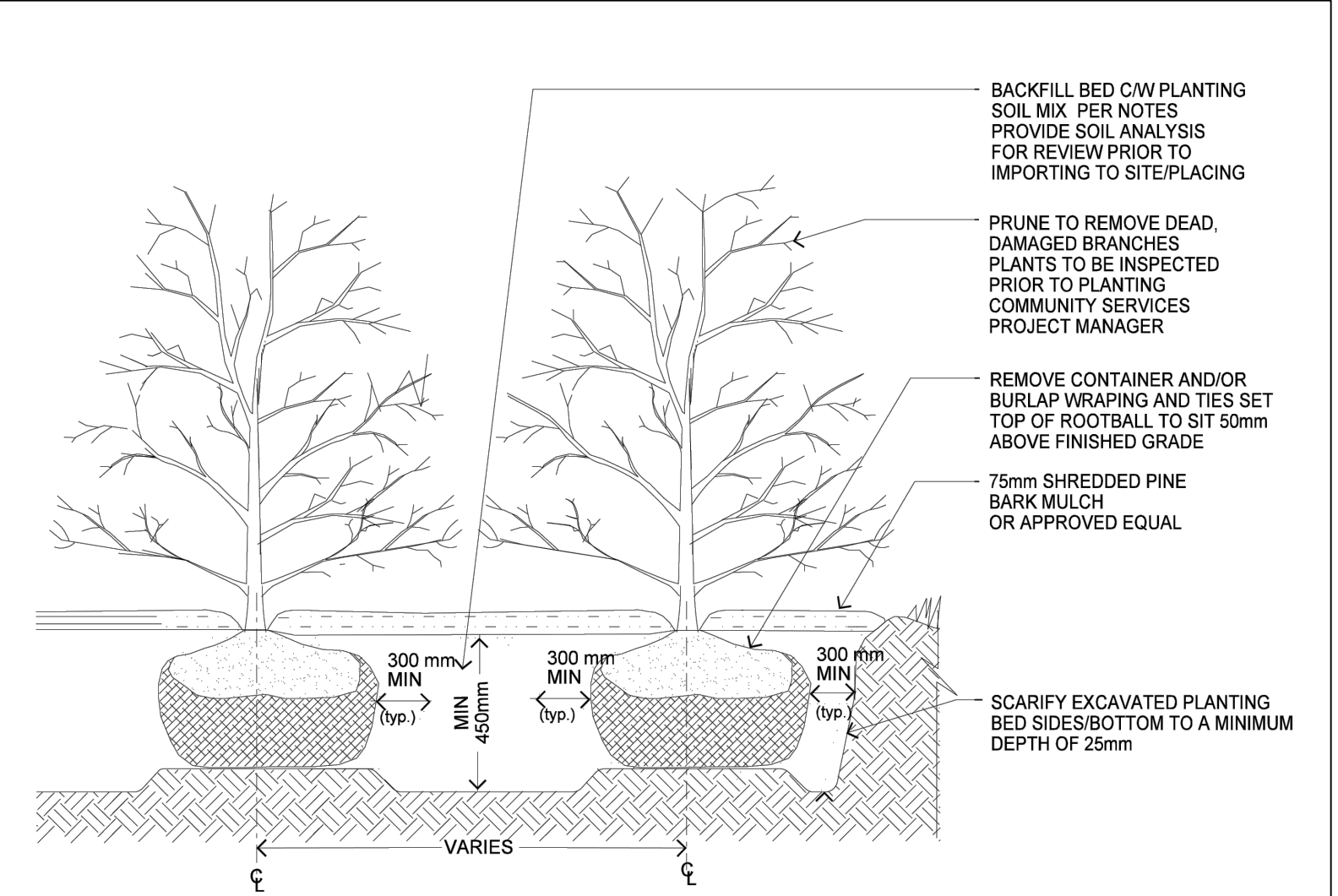
SCALE: 1:100	SHEET NO: L220
DATE: November 2023	
PROJECT NO: 231533	
DRAWN BY: JBKH	
CHECKED BY: KWB	



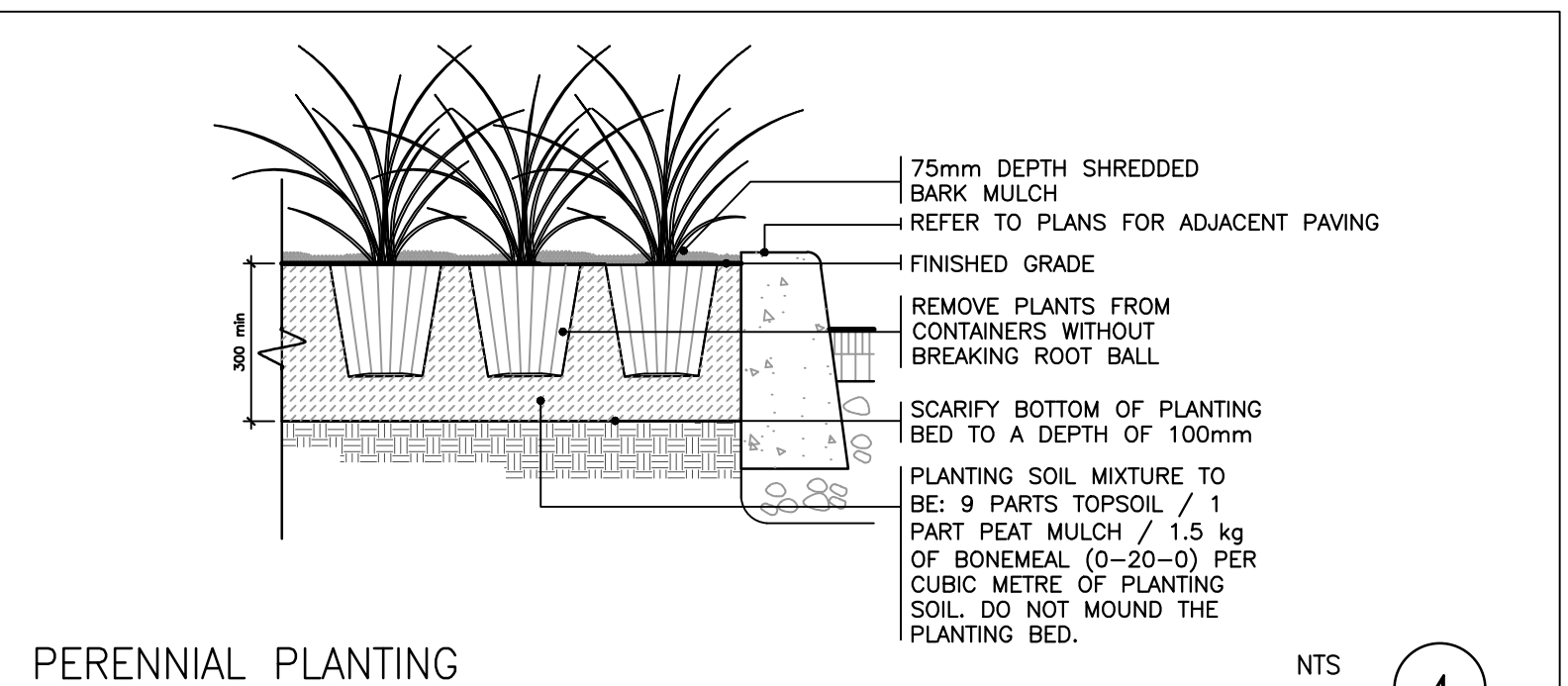
DECIDUOUS TREE PLANTING
City of Mississauga Standard Detail 02950-1



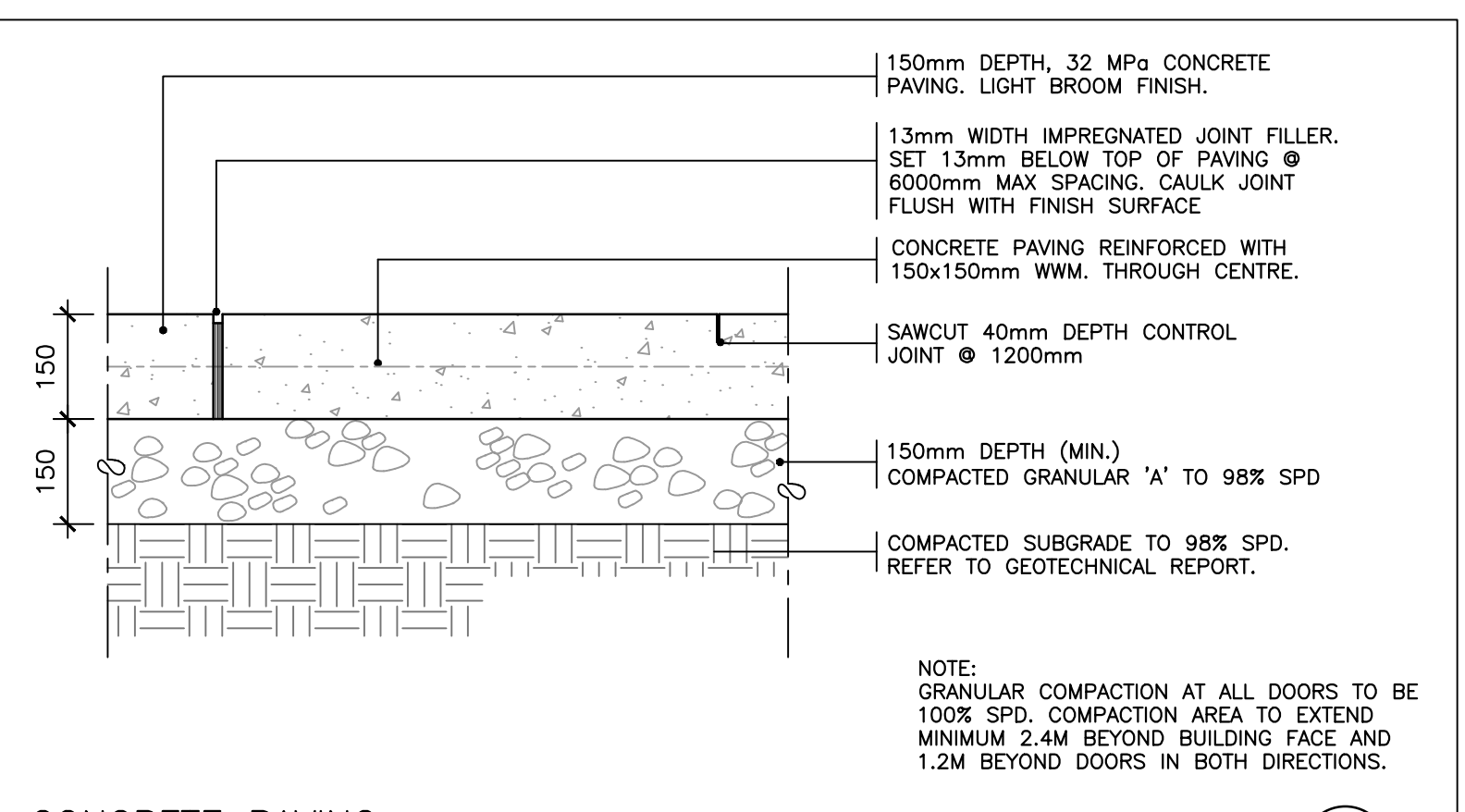
CONIFEROUS TREE PLANTING
City of Mississauga Standard Detail 09950-2



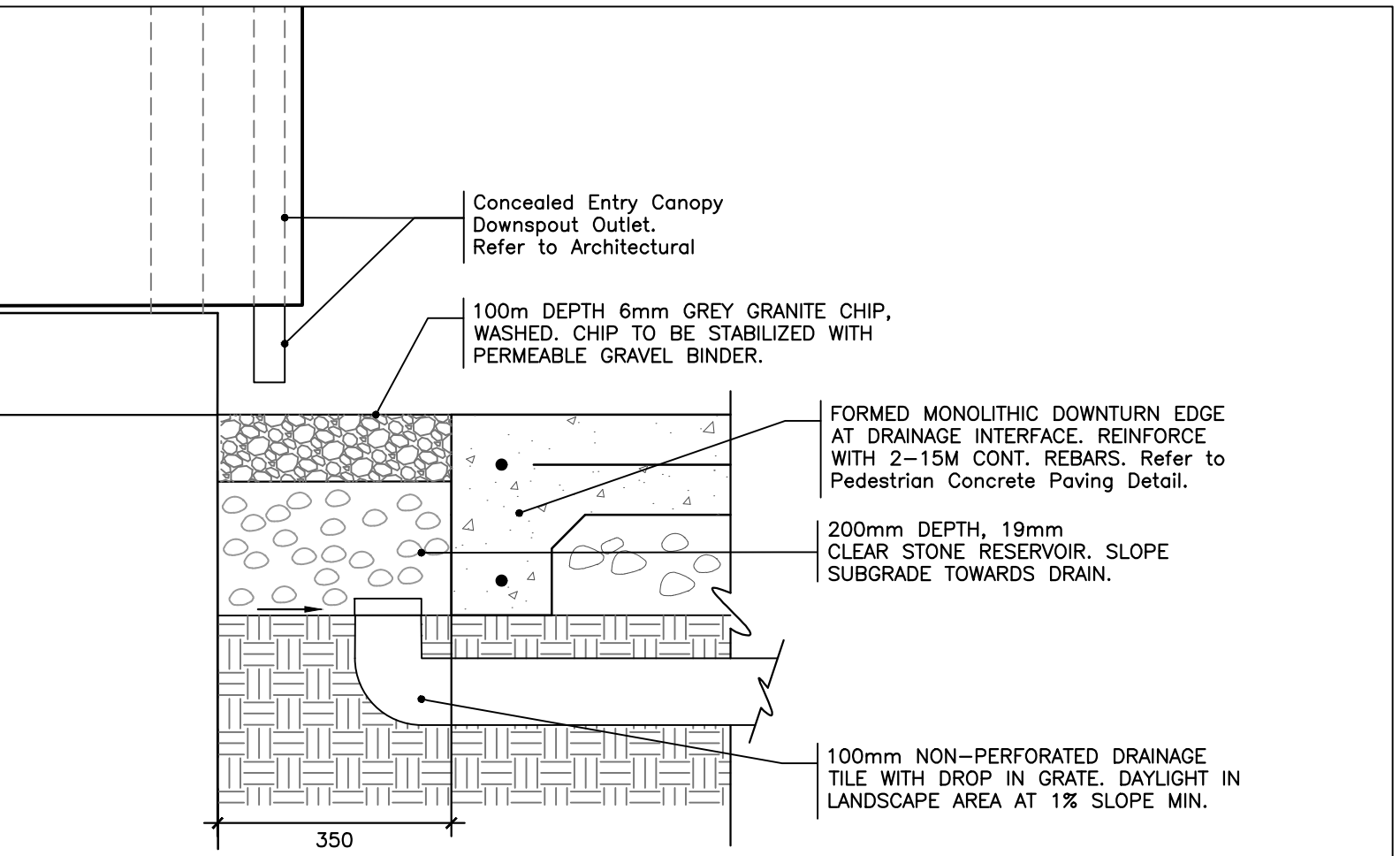
SHRUB PLANTING
City of Mississauga Standard Detail 02950-6



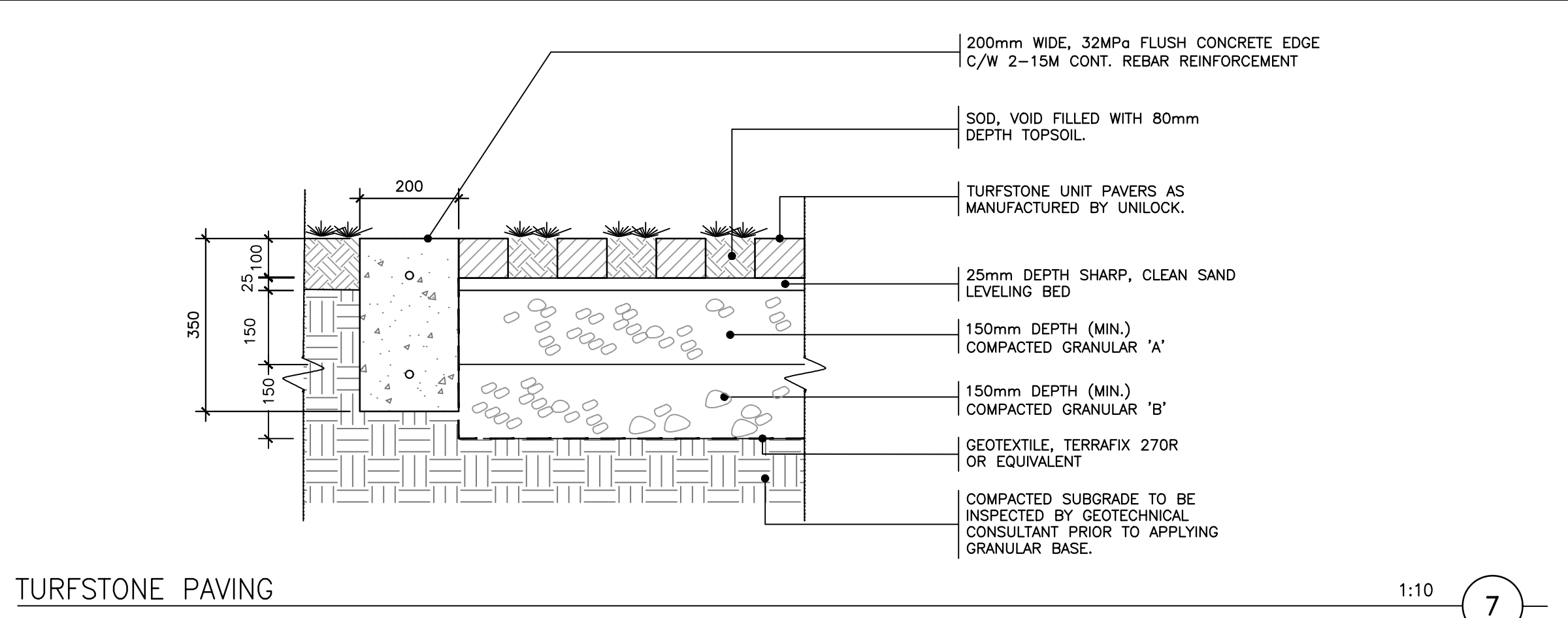
PERENNIAL PLANTING



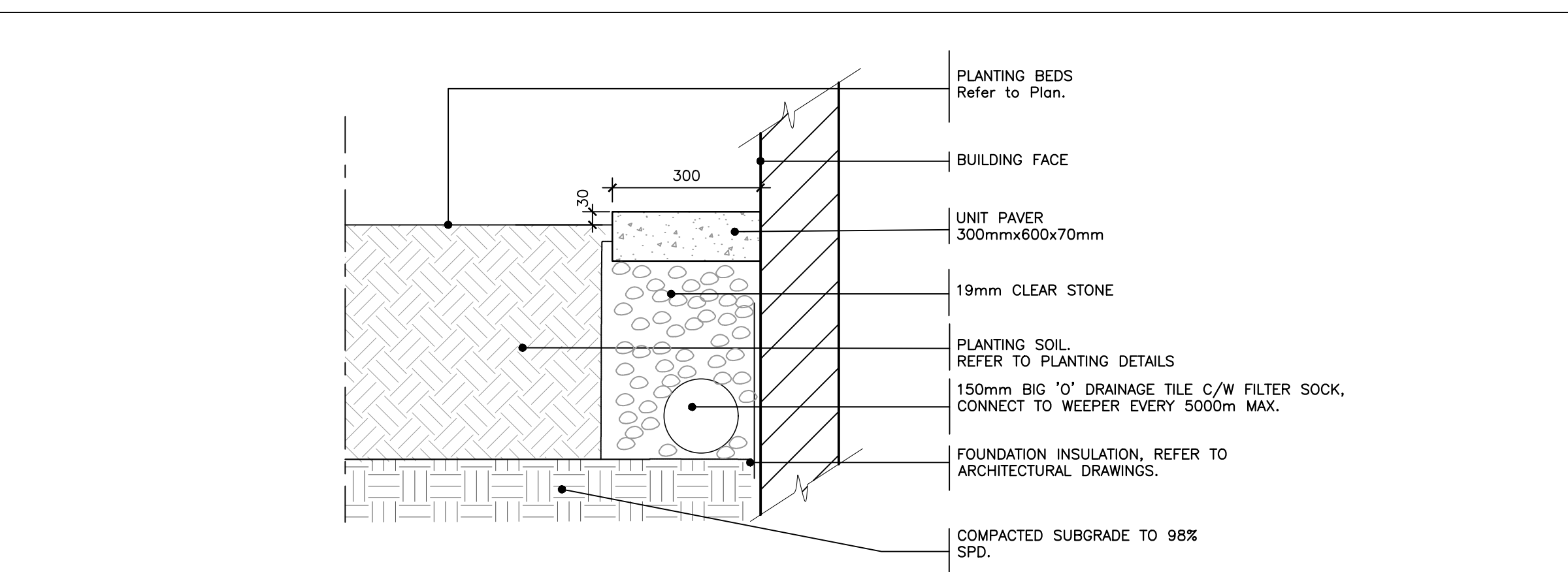
CONCRETE PAVING



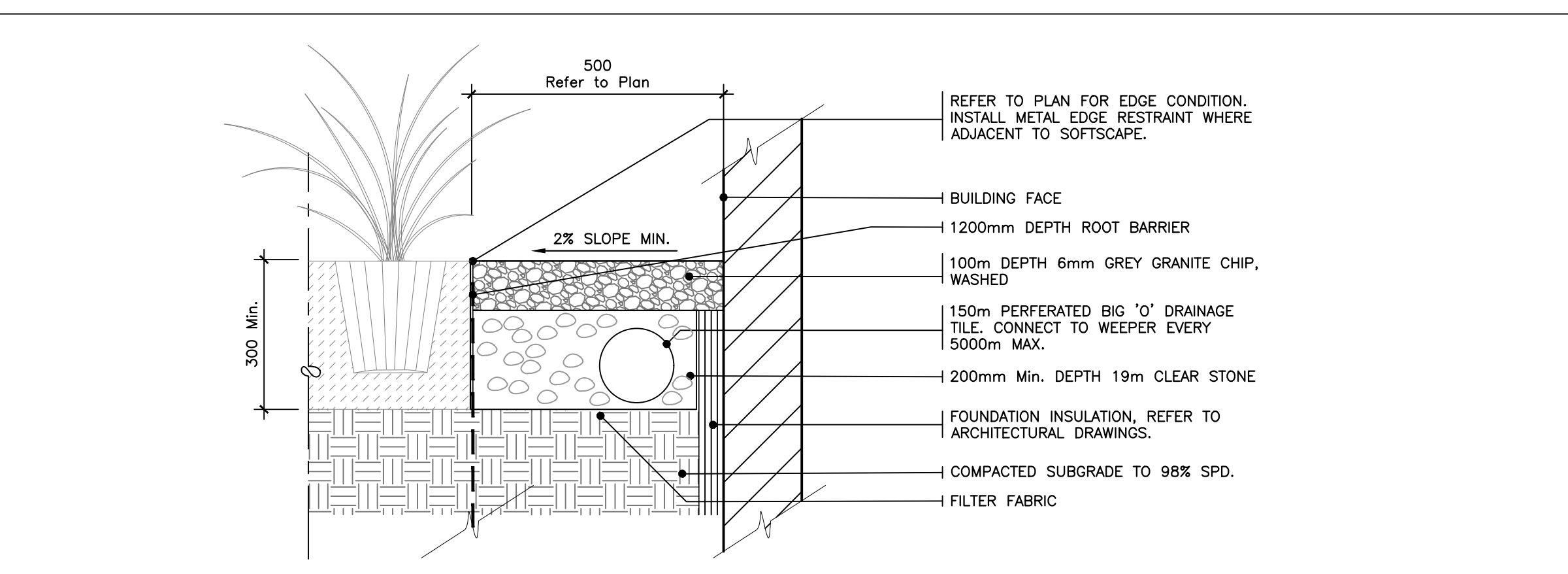
ENTRY CANOPY DOWNSPOUT DRAINAGE STRIP



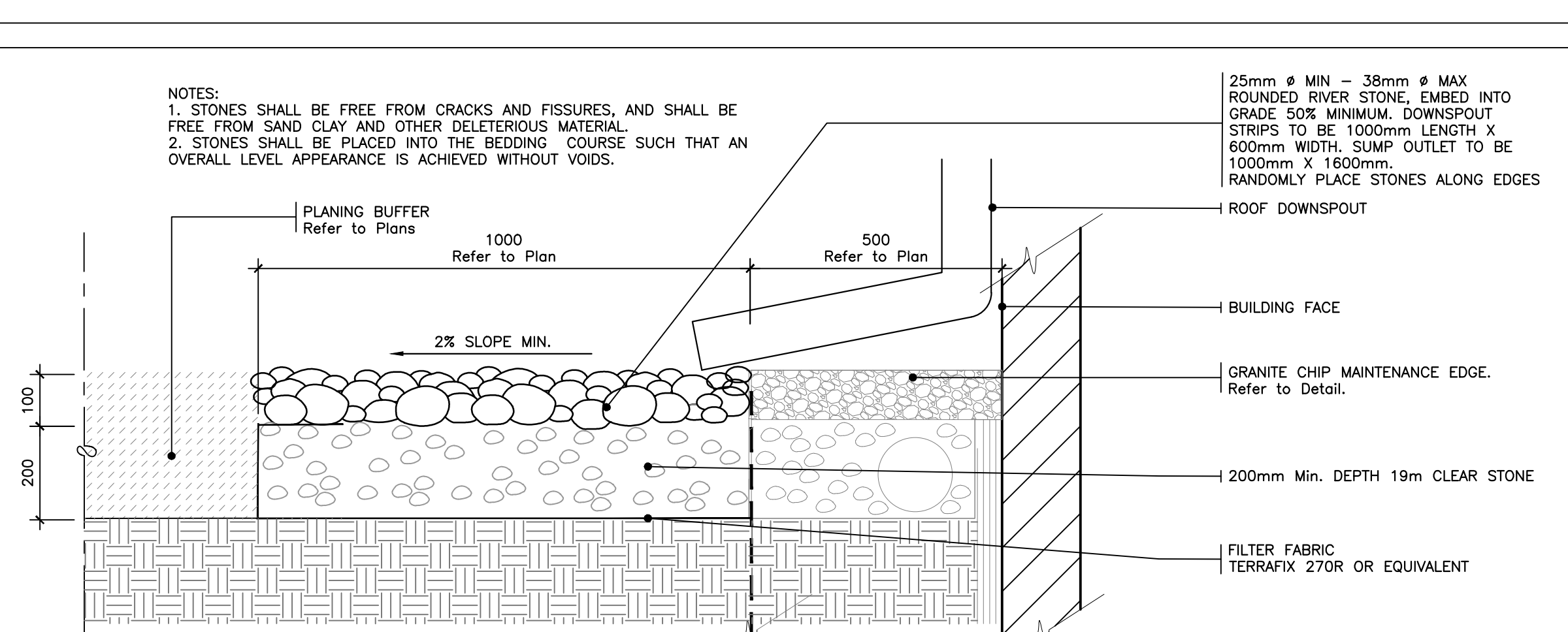
TURFSTONE PAVING



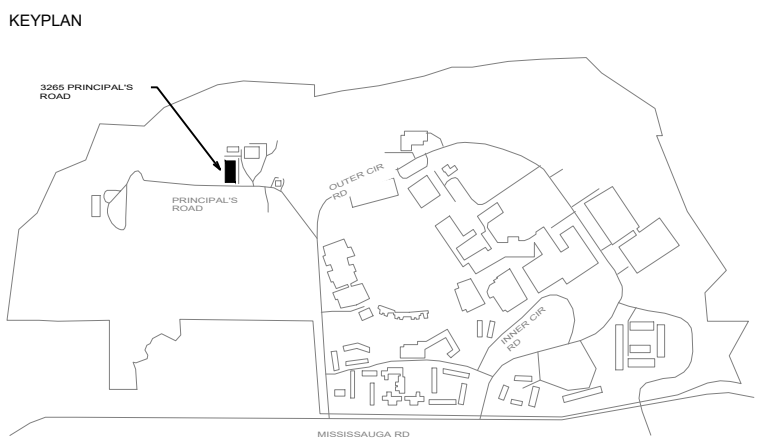
PRECAST CONCRETE MAINTENANCE EDGE



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:
NOT FOR CONSTRUCTION

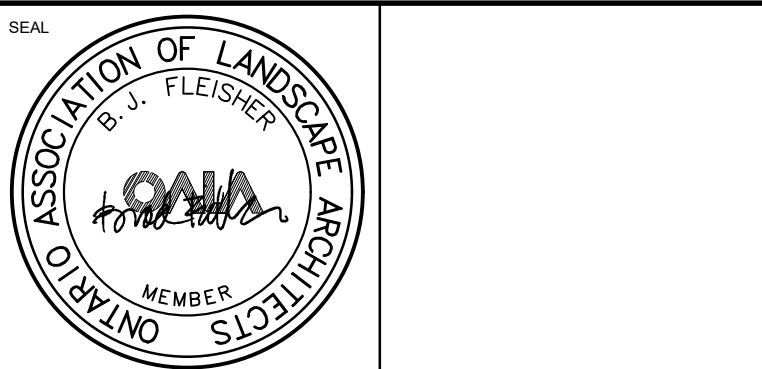


CLIENT
University of Toronto Mississauga

PROJECT
Pre-Engineered Building

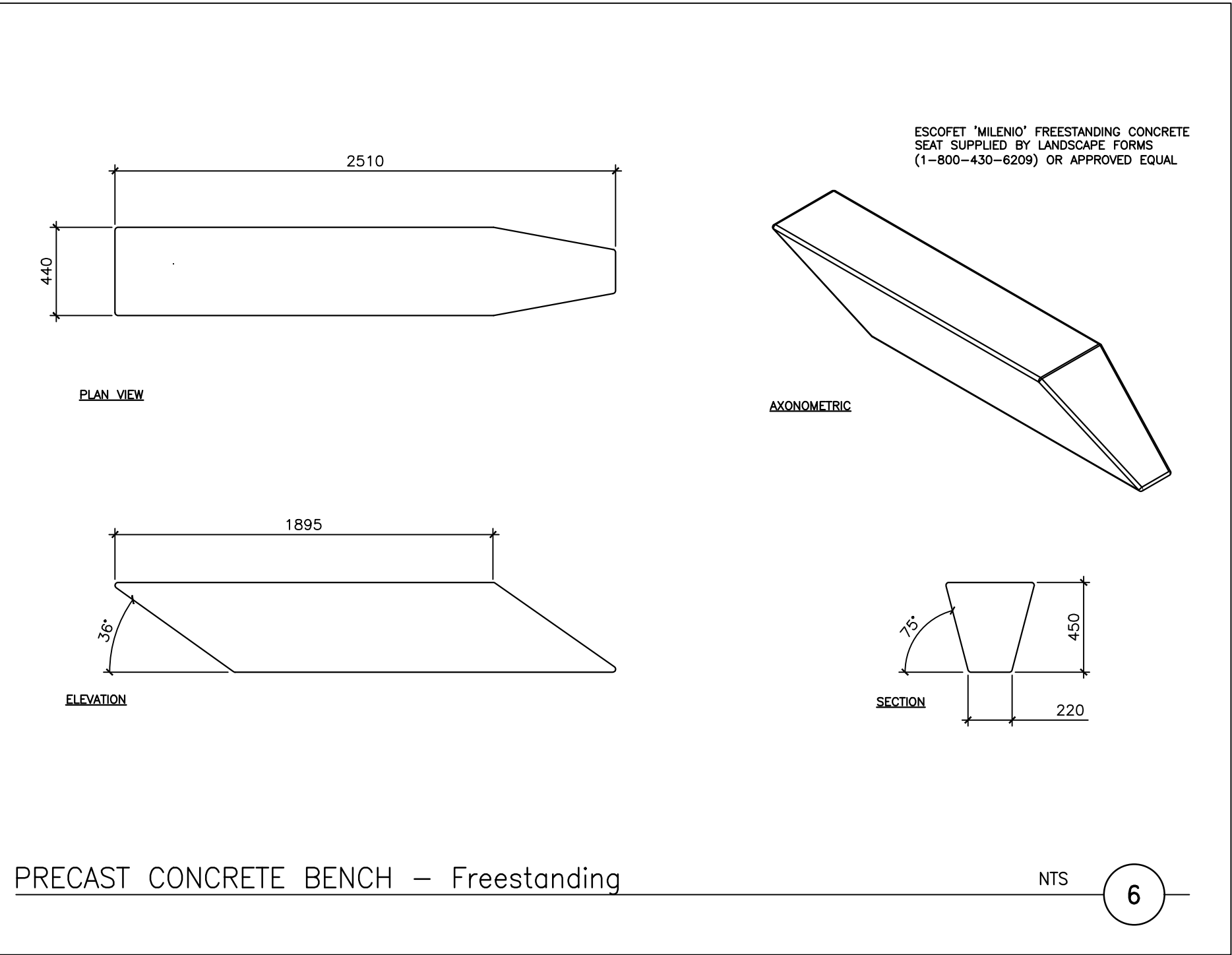
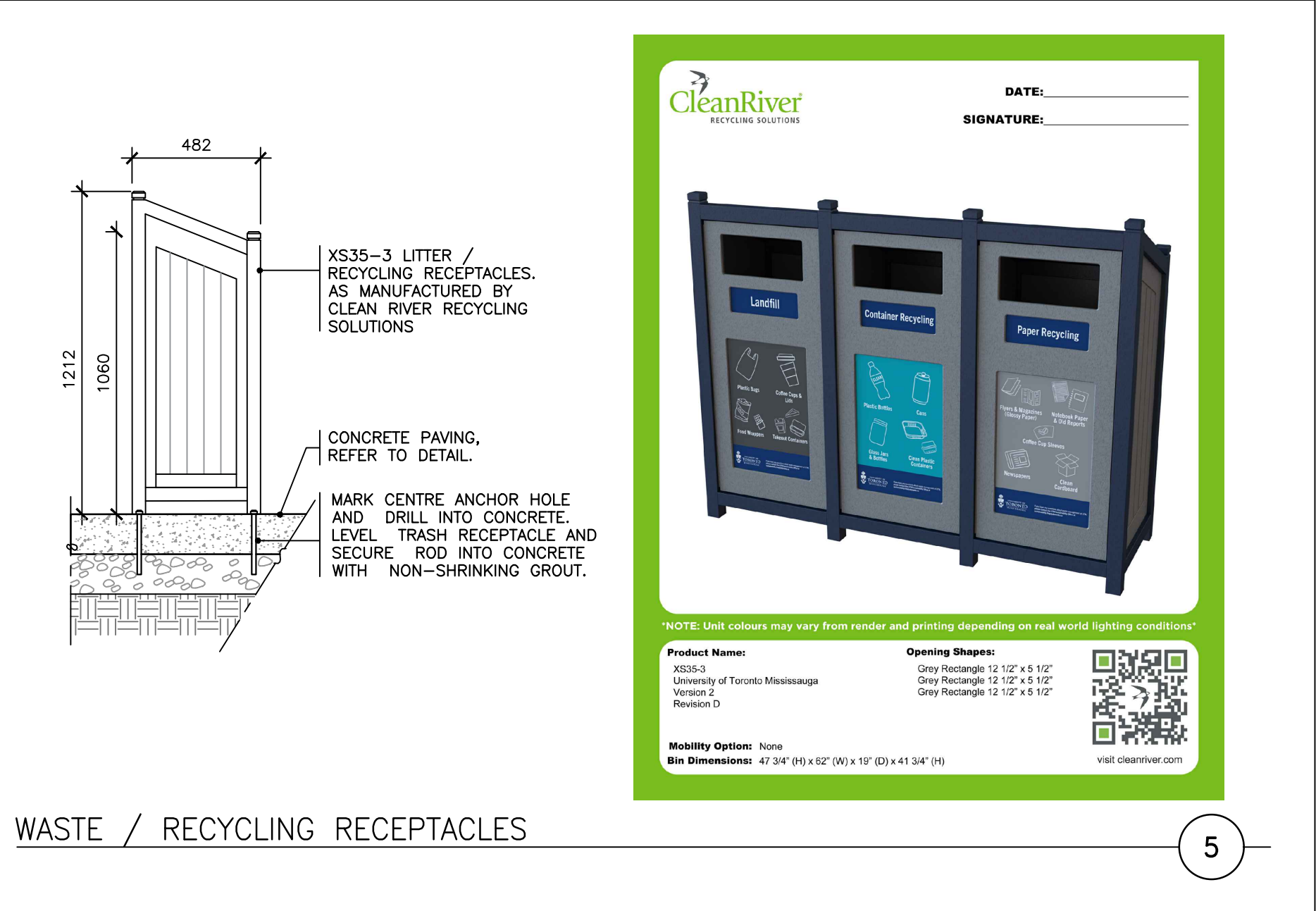
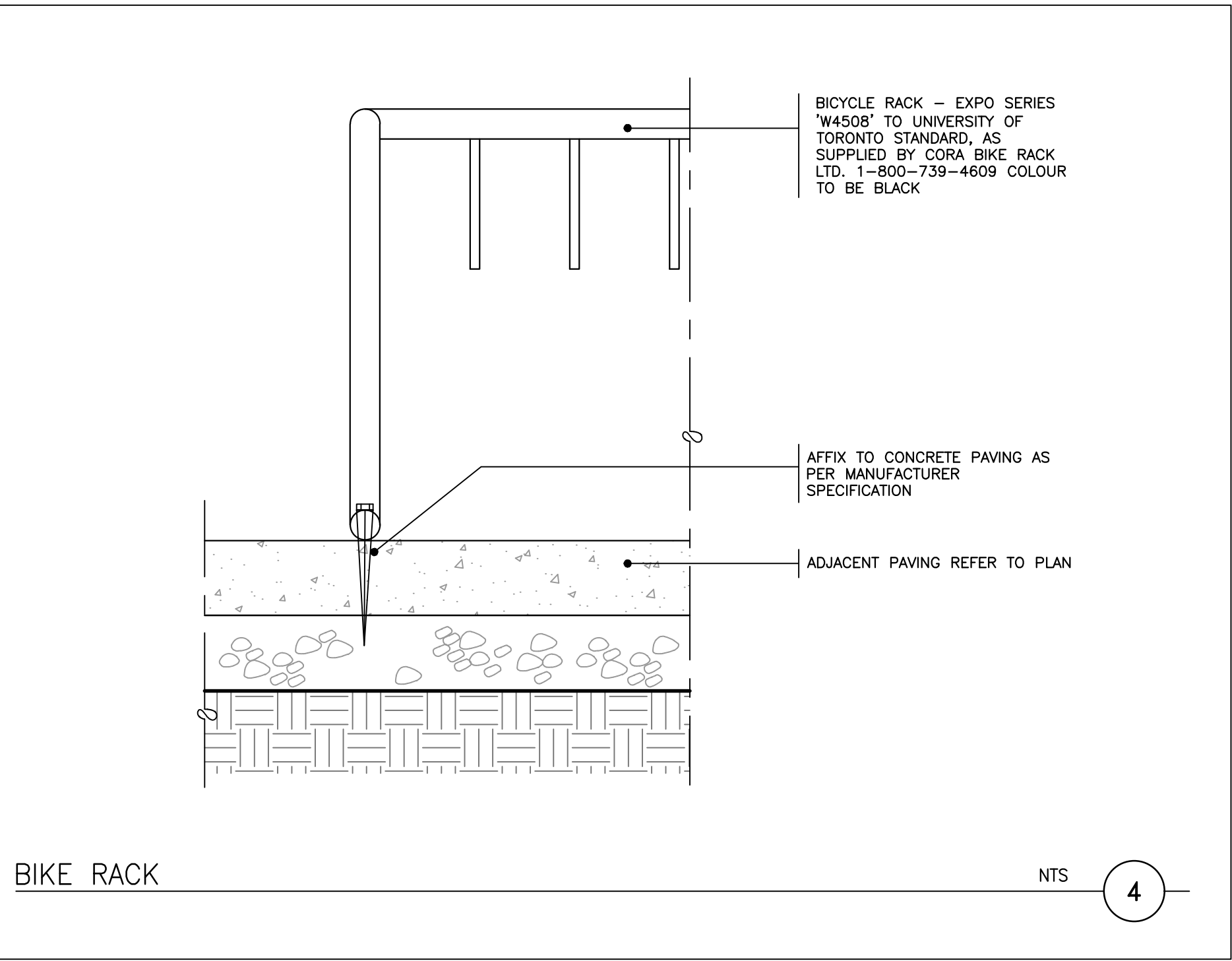
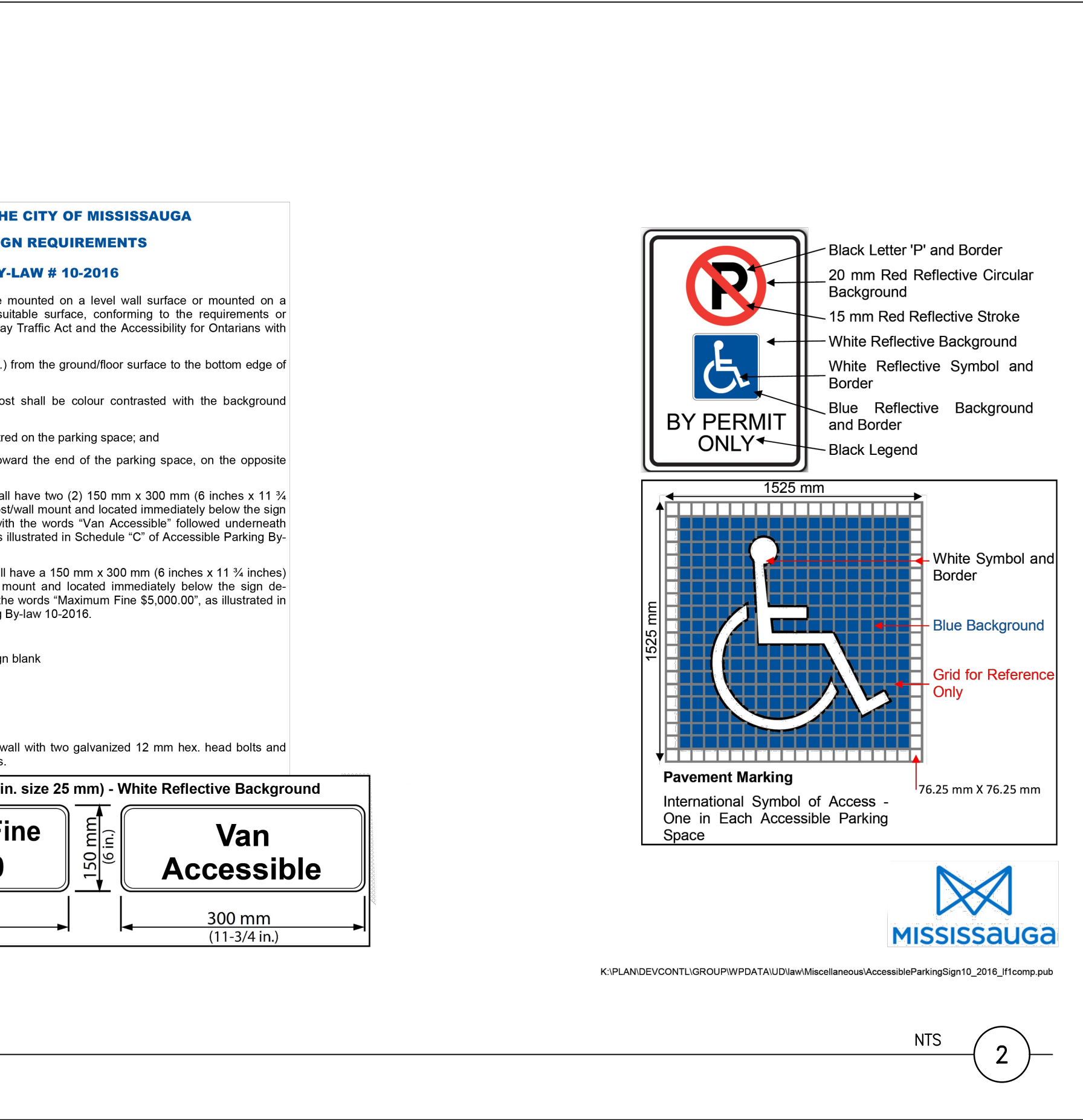
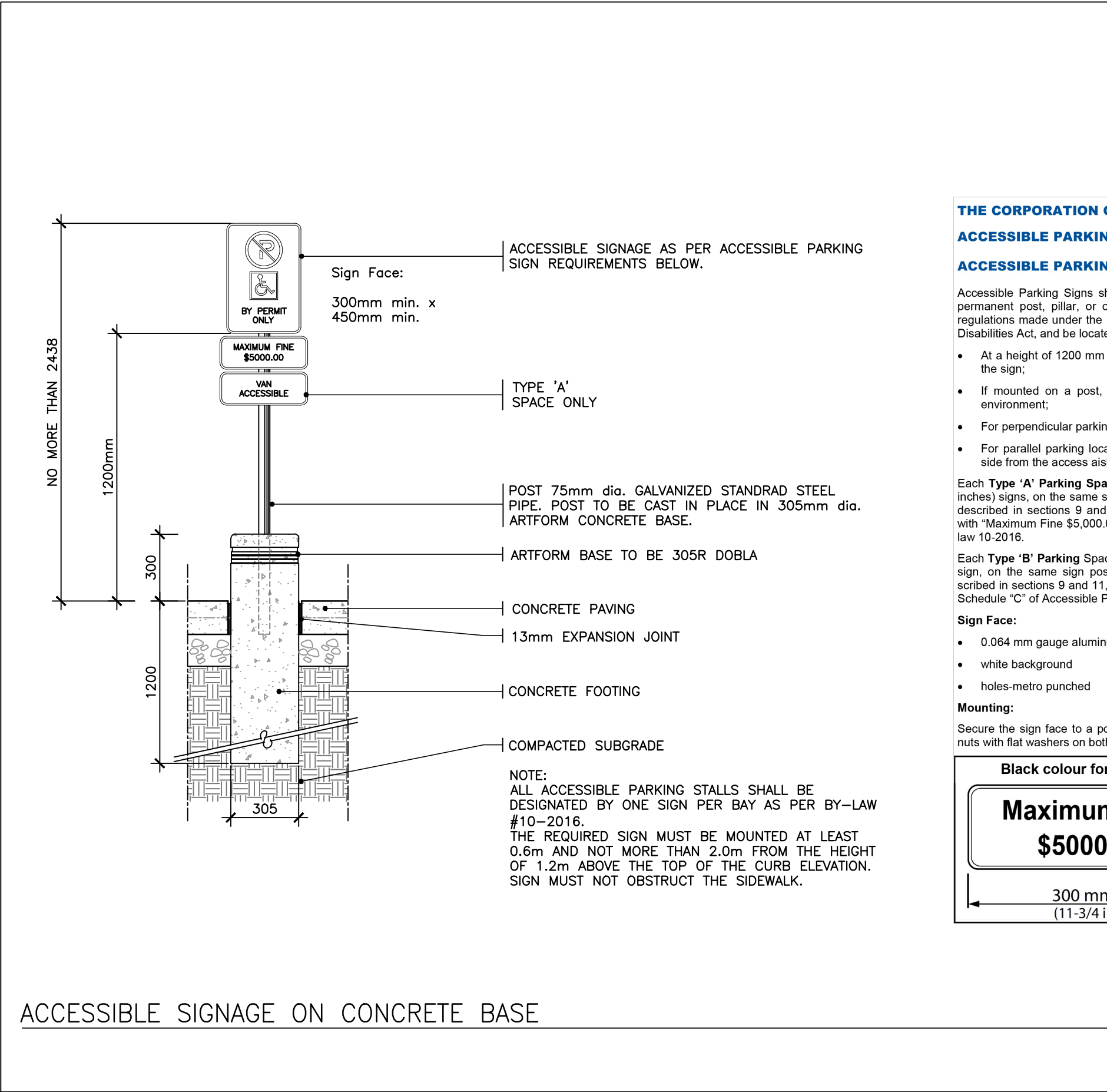
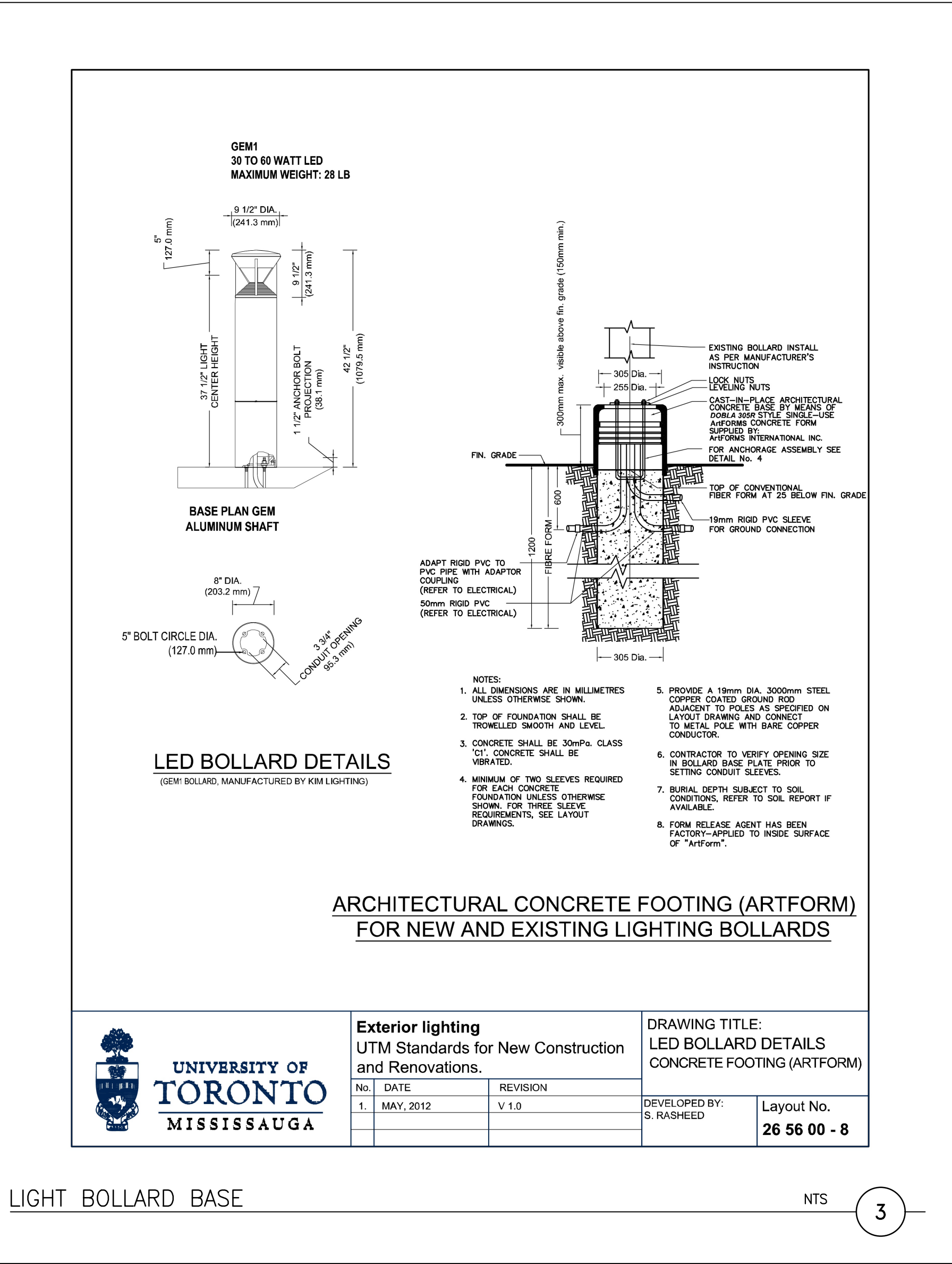
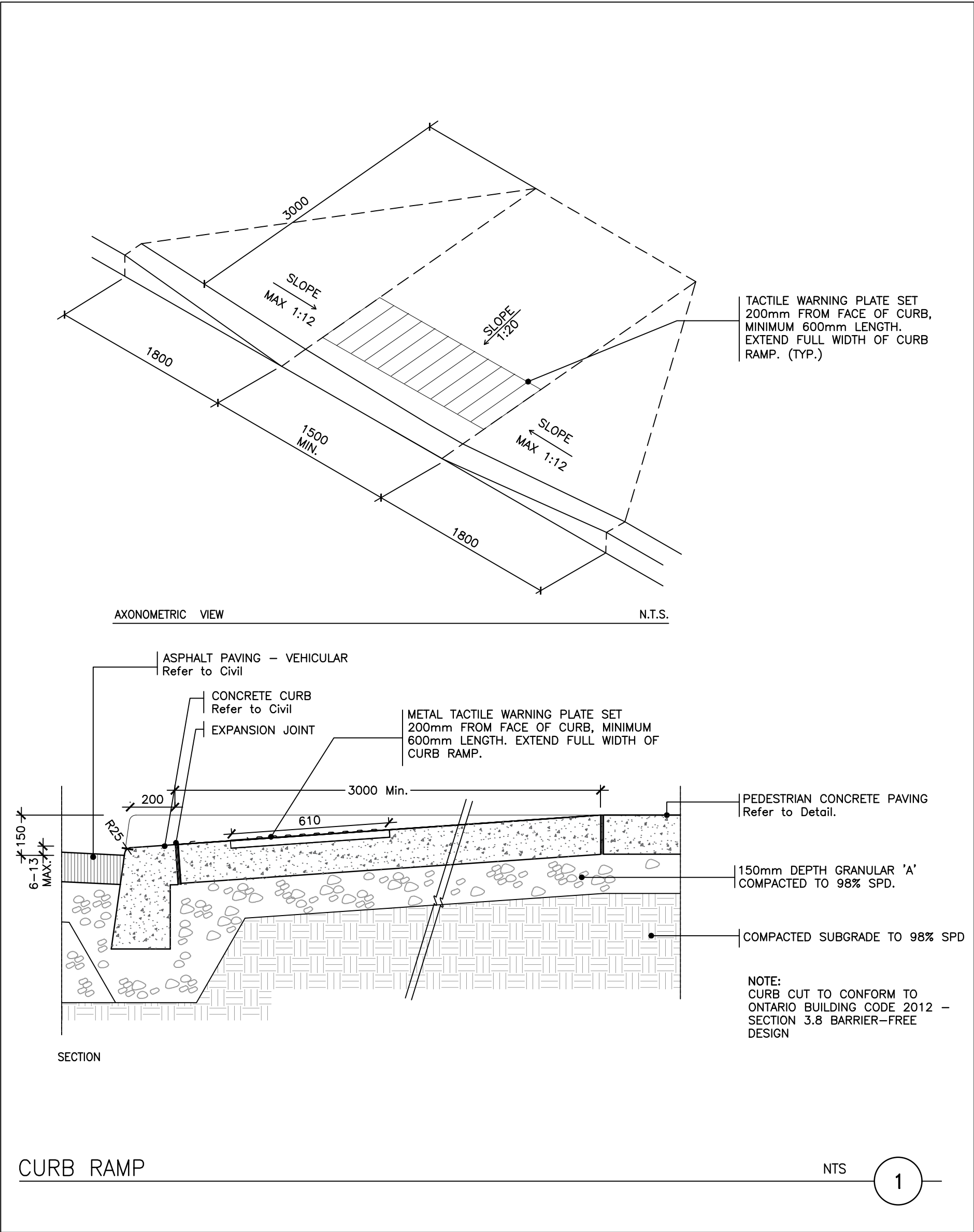
3359 Mississauga Road

TITLE
LANDSCAPE DETAILS



REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY FLEISHER RUDY PARTNERSHIP INC. (FRP) 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 FRP. DO NOT SCALE THIS DRAWING.

SCALE: As Shown	SHEET NO: L300
DATE: November 2023	
PROJECT NO: 231533	
DRAWN BY: JBKH	
CHECKED BY: KWHF	



KEYPLAN

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

DISCLAIMER:

NOT FOR CONSTRUCTION

CLIENT LOGO

UNIVERSITY OF TORONTO MISSISSAUGA

CLIENT

University of Toronto Mississauga

PROJECT

Pre-Engineered Building

3359 Mississauga Road

TITLE

LANDSCAPE DETAILS

FRP Inc. landscape architects

1872 Dundas Street West, Toronto, ON M6J 1B4

www.frpinc.ca

SEAL

ASSOCIATION OF LANDSCAPE ARCHITECTS

REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY FLEISHER RODDY PARTNERSHIP INC. (FRP) 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 FRP. DO NOT SCALE THIS DRAWING.

COPYRIGHT © FRP Inc.

SCALE: As Shown

DATE: November 2023

PROJECT NO.: 231533

DRAWN BY: JBNKH

CHECKED BY: KWBIF

SHEET NO.: L301

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
<div>MAX. AIR QUANTITY MIN. AIR QUANTITY</div> <div>000000</div> <div>0</div> <div>SIZE</div>	<div>MAX. AIR QUANTITY MIN. AIR QUANTITY</div> <div>400000</div> <div>6</div> <div>SIZE</div>		TERMINAL BOX DESIGNATION
<div>SIZE AIR QUANTITY</div> <div>00"x00" 0000</div> <div>A</div> <div>TYPE</div>	<div>SIZE AIR QUANTITY</div> <div>120</div> <div></div> <div>TYPE</div>		DIFFUSER OR GRILLE DESIGNATION
C.T.E.		CONNECT TO EXISTING	
		RELOCATED EQUIPMENT	

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

DISCLAIMER:
NOT FOR CONSTRUCTION



CLIENT
UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

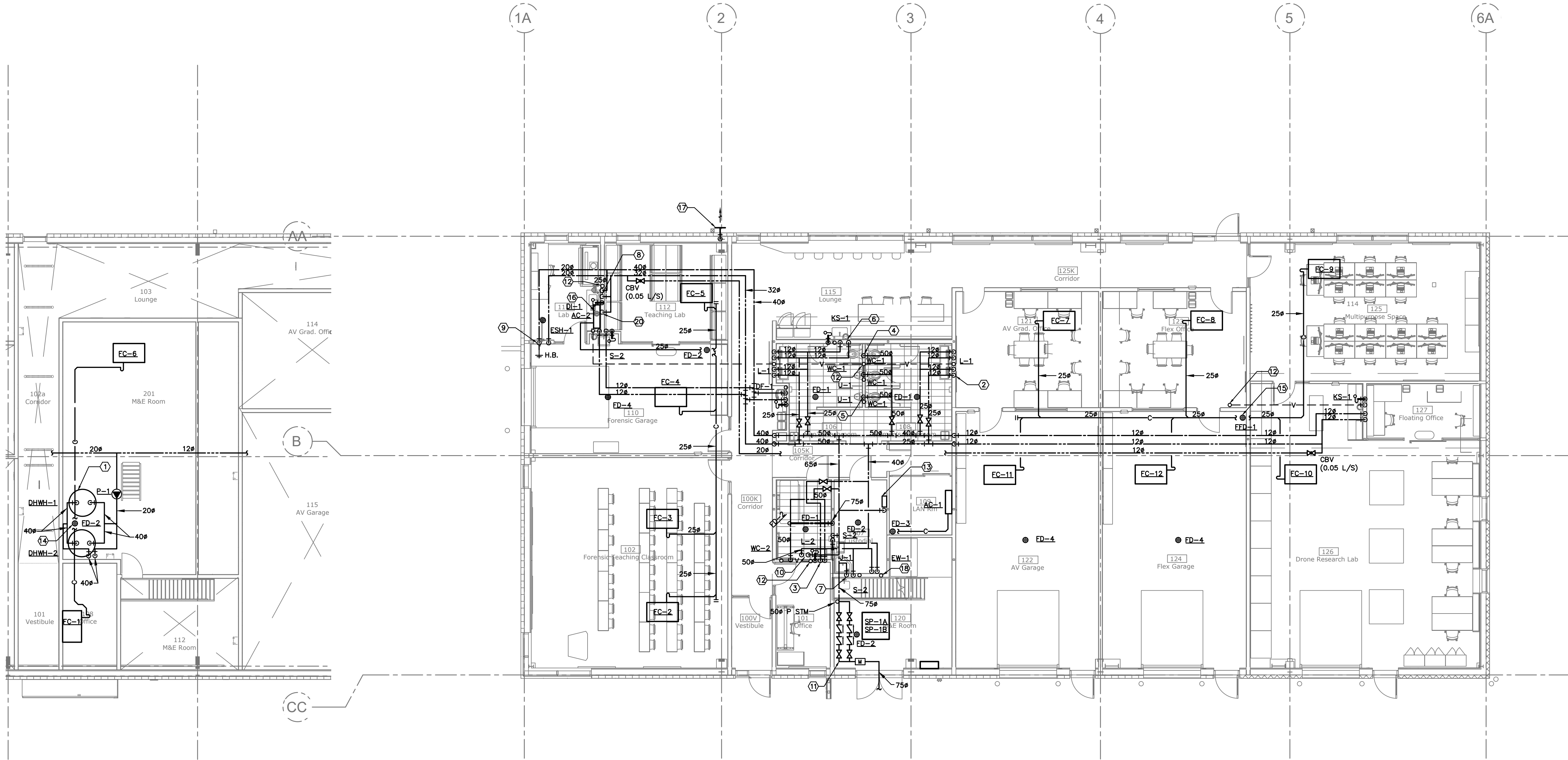
TITLE
MECHANICAL LEGEND, DRAWING LIST

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



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.

COPYRIGHT © BSN Architects	
SCALE : N.T.S.	SHEET NO : M001
DATE : FEB 2024	
PROJECT NO : 2023-0059	
DRAWN BY : LT	
CHECKED BY : MS	



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.
- 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 DI-1, CONNECT TO FAUCET, REFER TO ARCHITECTURAL SPECIFICATIONS FOR FAUCET.

PROVIDE PLUMBING VENTING AS PER OBC

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

DISCLAIMER:

NOT FOR CONSTRUCTION

CLIENT LOGO



CLIENT

UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT

PRE-ENGINEERED BUILDING

3359 MISSISSAUGA ROAD

TITLE

PLUMBING - GROUND FLOOR AND MEZZANINE

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

SEAL



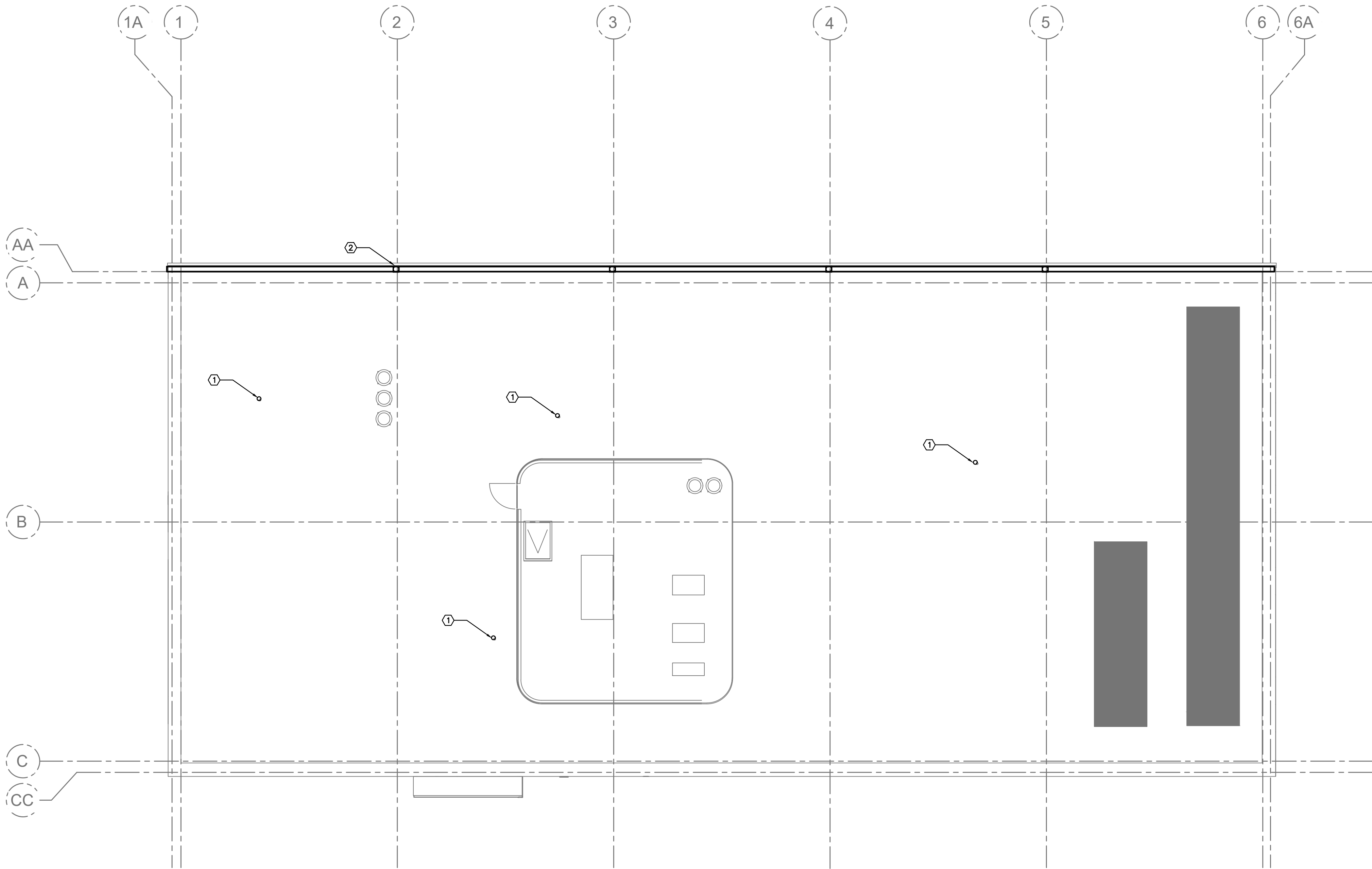
REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS. DO NOT SCALE THIS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

COPYRIGHT © BSN Architects

SCALE : 1:100
DATE : FEB 2024
PROJECT NO : 2023-0059
DRAWN BY : LT
CHECKED BY : MS

SHEET NO :

M101



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.
- 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
1	ISSUED FOR DESIGN DEVELOPMENT	01/03/2024
2	ISSUED FOR PERMIT	13/09/2024
3	ISSUED FOR TENDER	26/11/2024

DISCLAIMER:

NOT FOR CONSTRUCTION

CLIENT LOGO



CLIENT

UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT

PRE-ENGINEERED BUILDING

3359 MISSISSAUGA ROAD

TITLE

PLUMBING - ROOF



SEAL



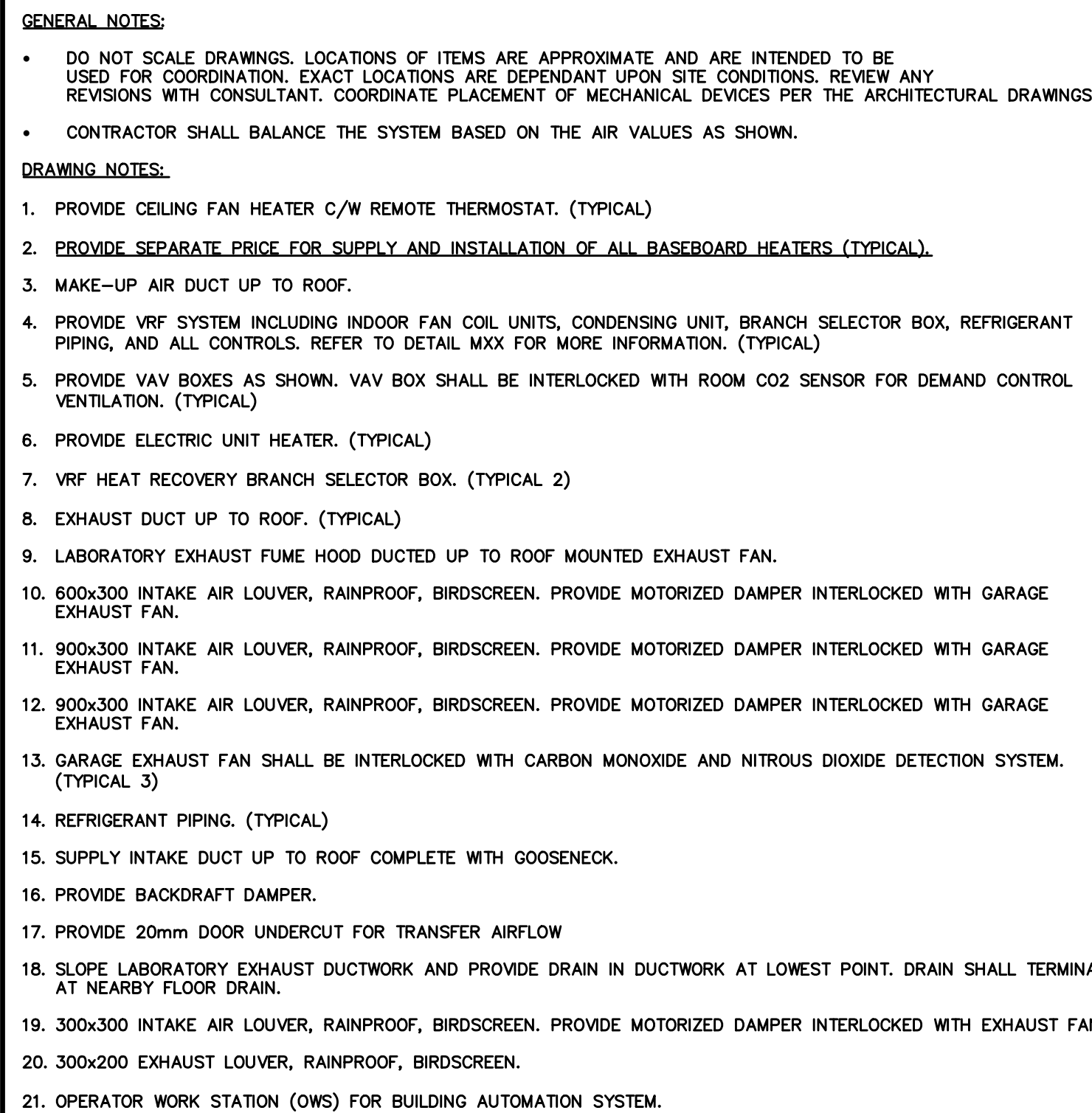
REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS. DO NOT SCALE THIS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

COPYRIGHT © BSN Architects

SCALE : 1:100
DATE : FEB 2024
PROJECT NO : 2023-0059
DRAWN BY : LT
CHECKED BY : MS

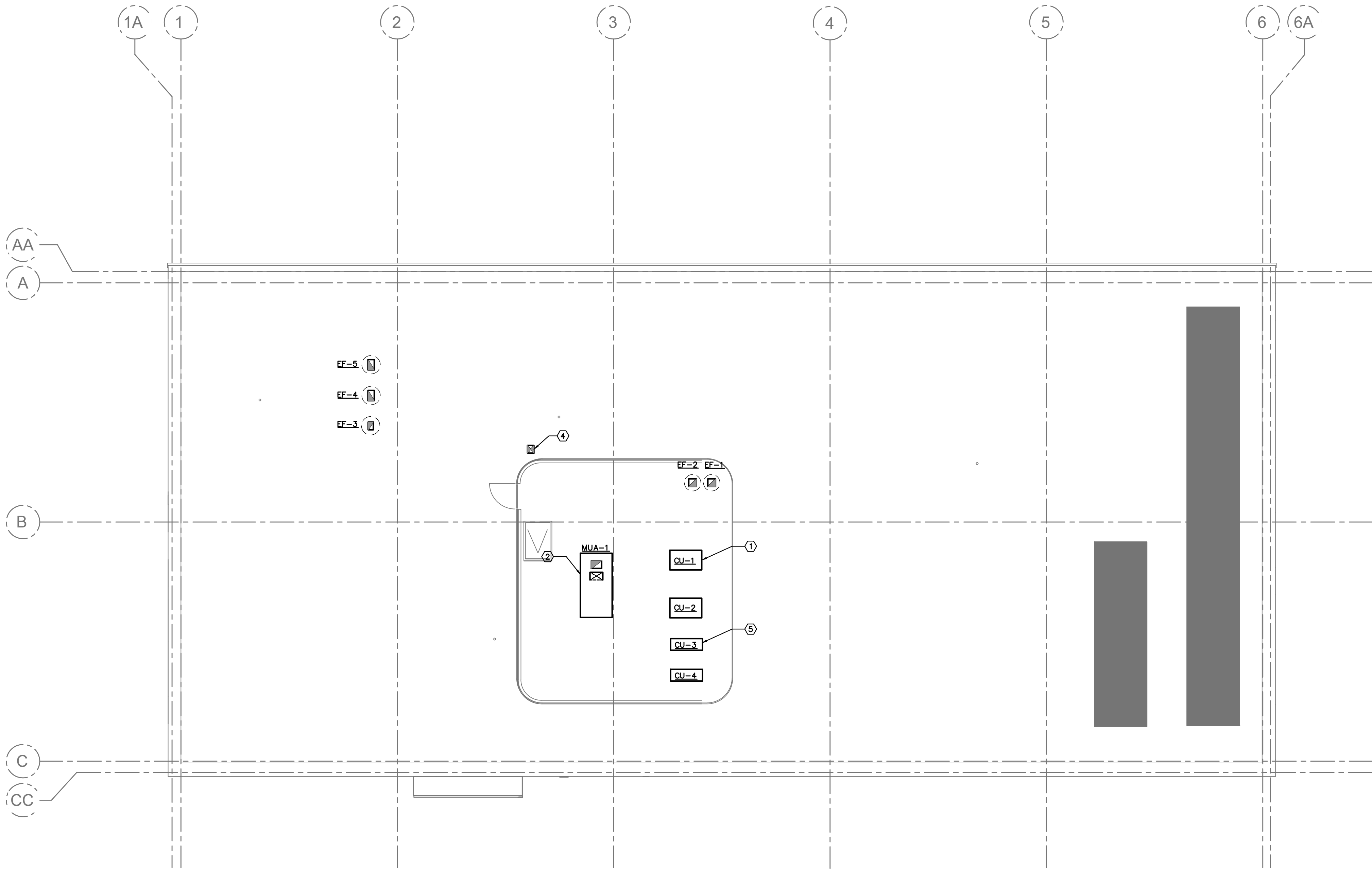
SHEET NO :

M102



COPYRIGHT ©		BSN Architects	
SCALE : 1:100		SHEET NO : M301	
DATE : FEB 2024			
PROJECT NO : 2023-0069			
DRAWN BY : LT			
CHECKED BY : MS			

M301



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)

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

DISCLAIMER:

NOT FOR CONSTRUCTION

CLIENT LOGO



CLIENT

UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT

PRE-ENGINEERED BUILDING

3359 MISSISSAUGA ROAD

TITLE

HVAC - ROOF



SEAL



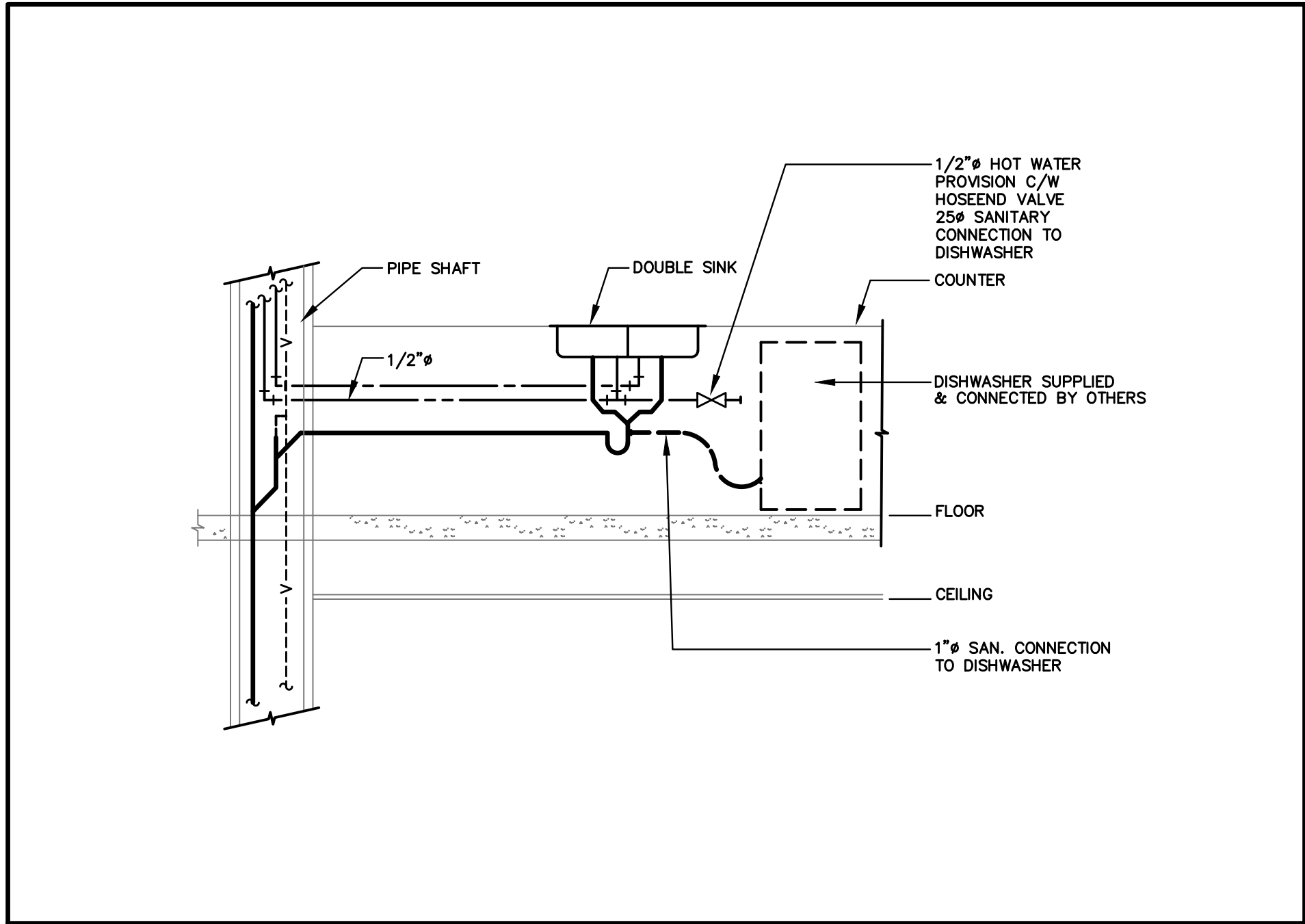
REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS. DO NOT SCALE THIS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

COPYRIGHT © BSN Architects

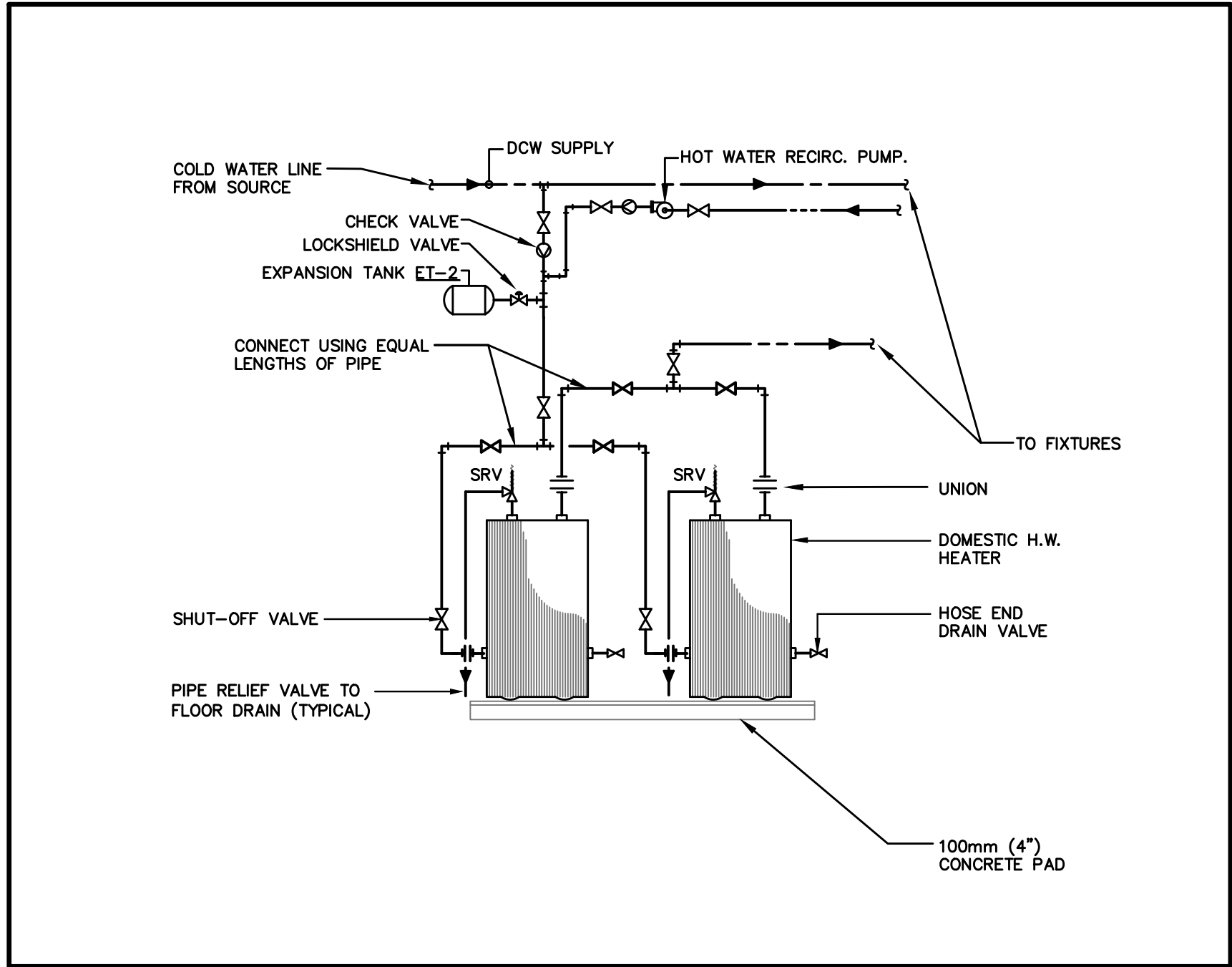
SCALE : 1:100
DATE : FEB 2024
PROJECT NO : 2023-0059
DRAWN BY : LT
CHECKED BY : MS

SHEET NO :

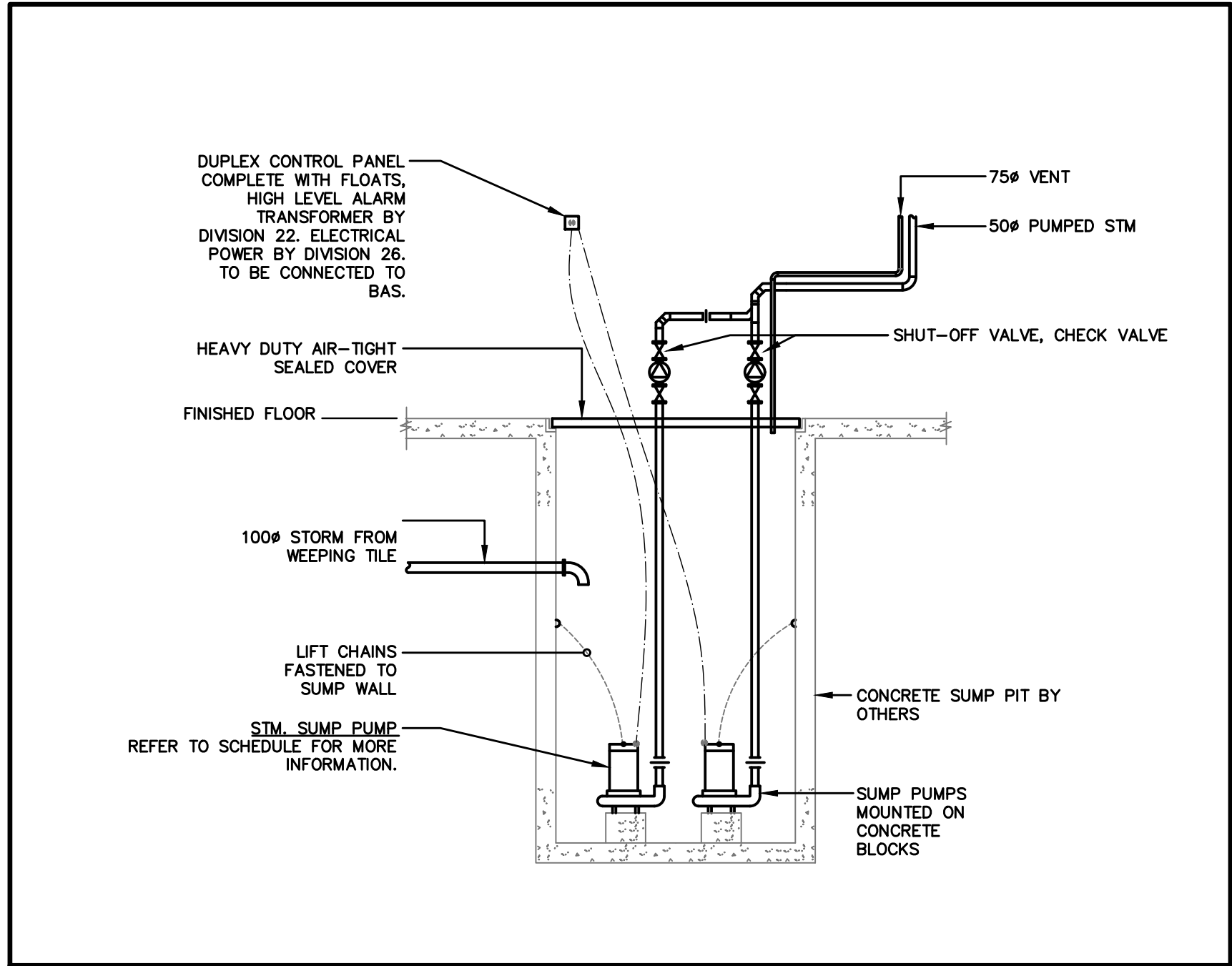
M302



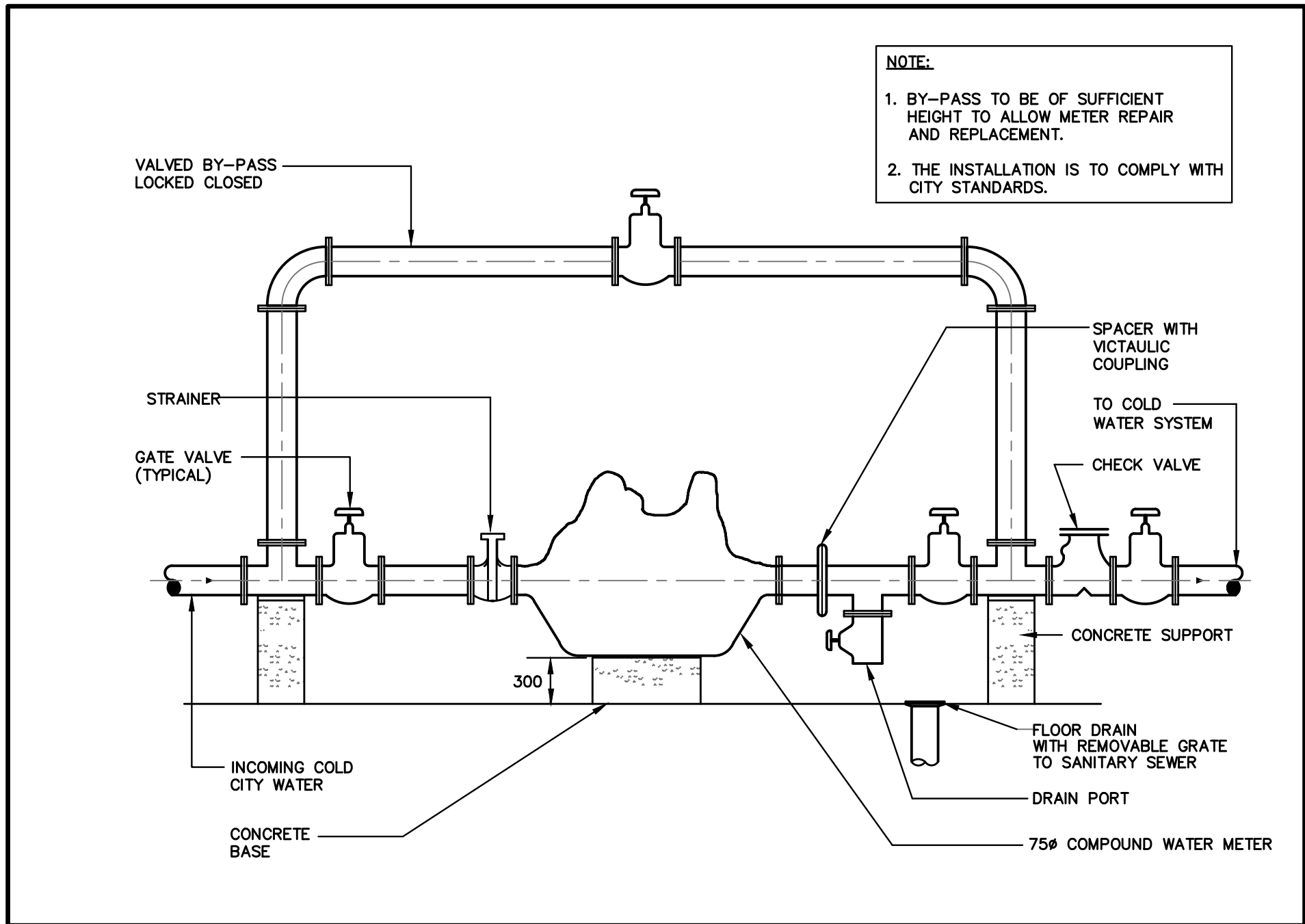
1 DISHWASHER PIPING CONNECTION DETAIL
M-500 N.T.S.



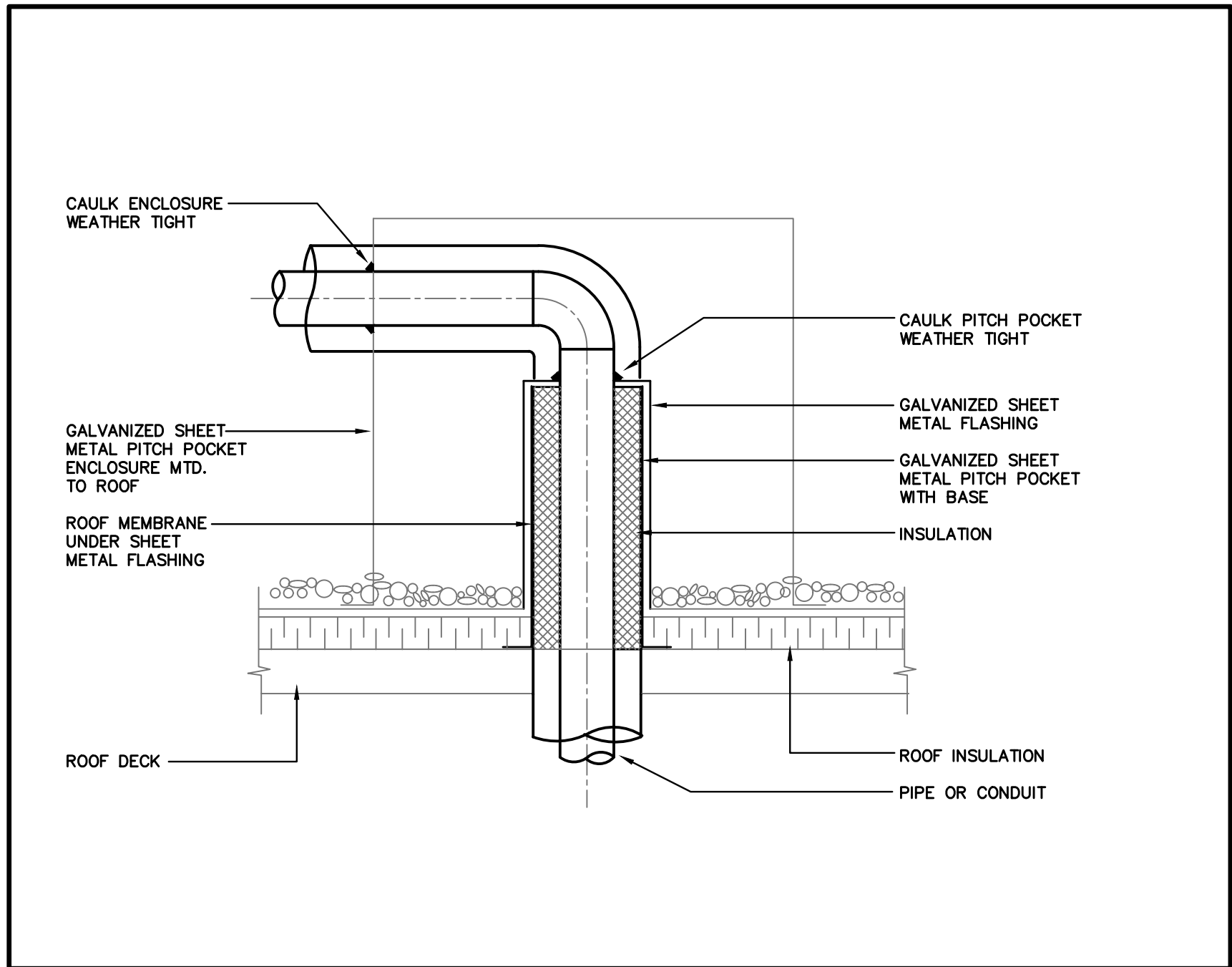
2 FLOOR MOUNT ELECTRIC DOMESTIC HOT WATER TANK DETAIL
M-500 N.T.S.



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.

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

DISCLAIMER:
NOT FOR CONSTRUCTION



CLIENT
UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

TITLE
MECHANICAL DETAILS

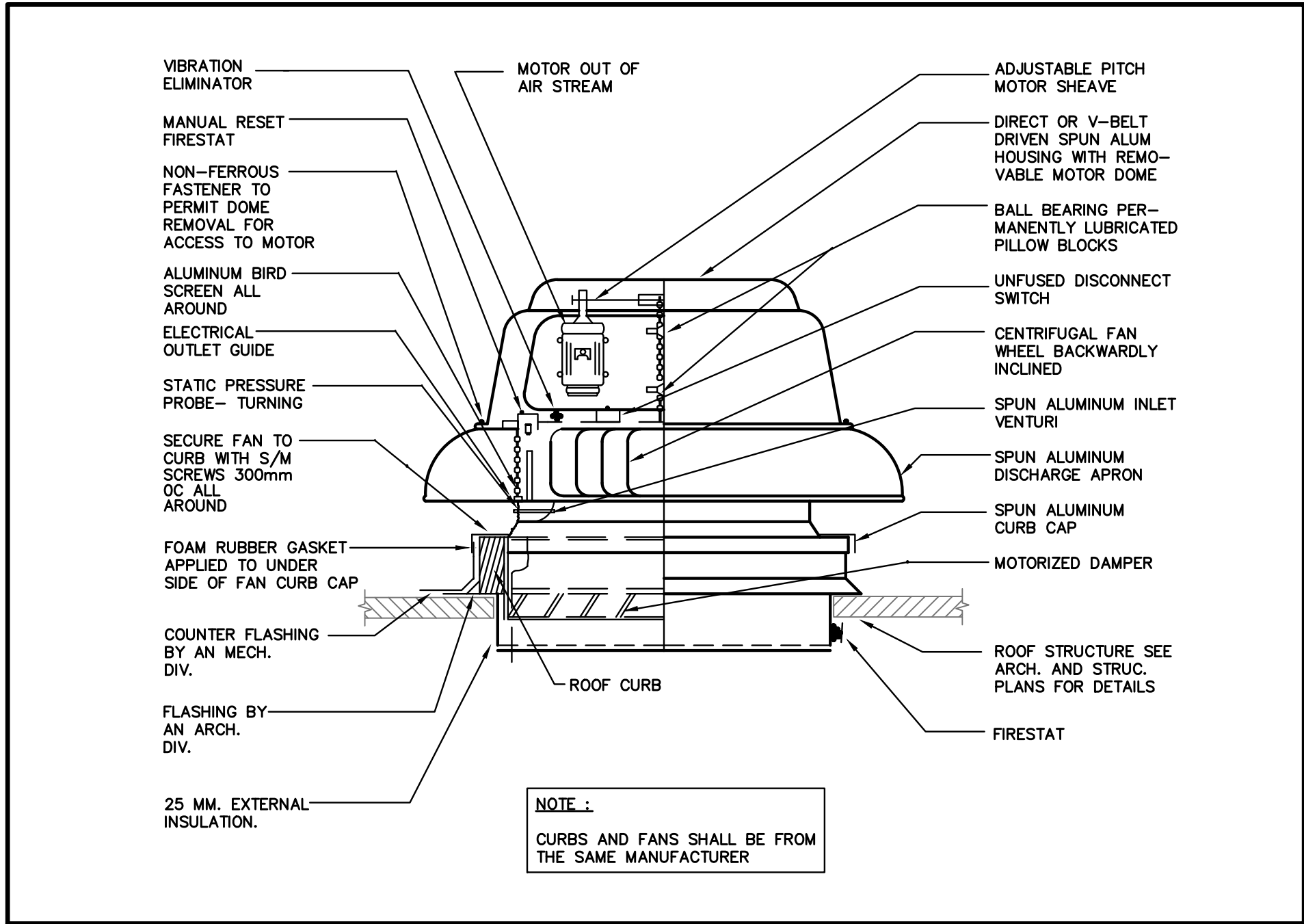
THEHIDIGROUP
155 Gordon Baker Road, Suite 200
Toronto, ON M2H 3N5 Canada
t. 416 364 2100 | HIDI.com



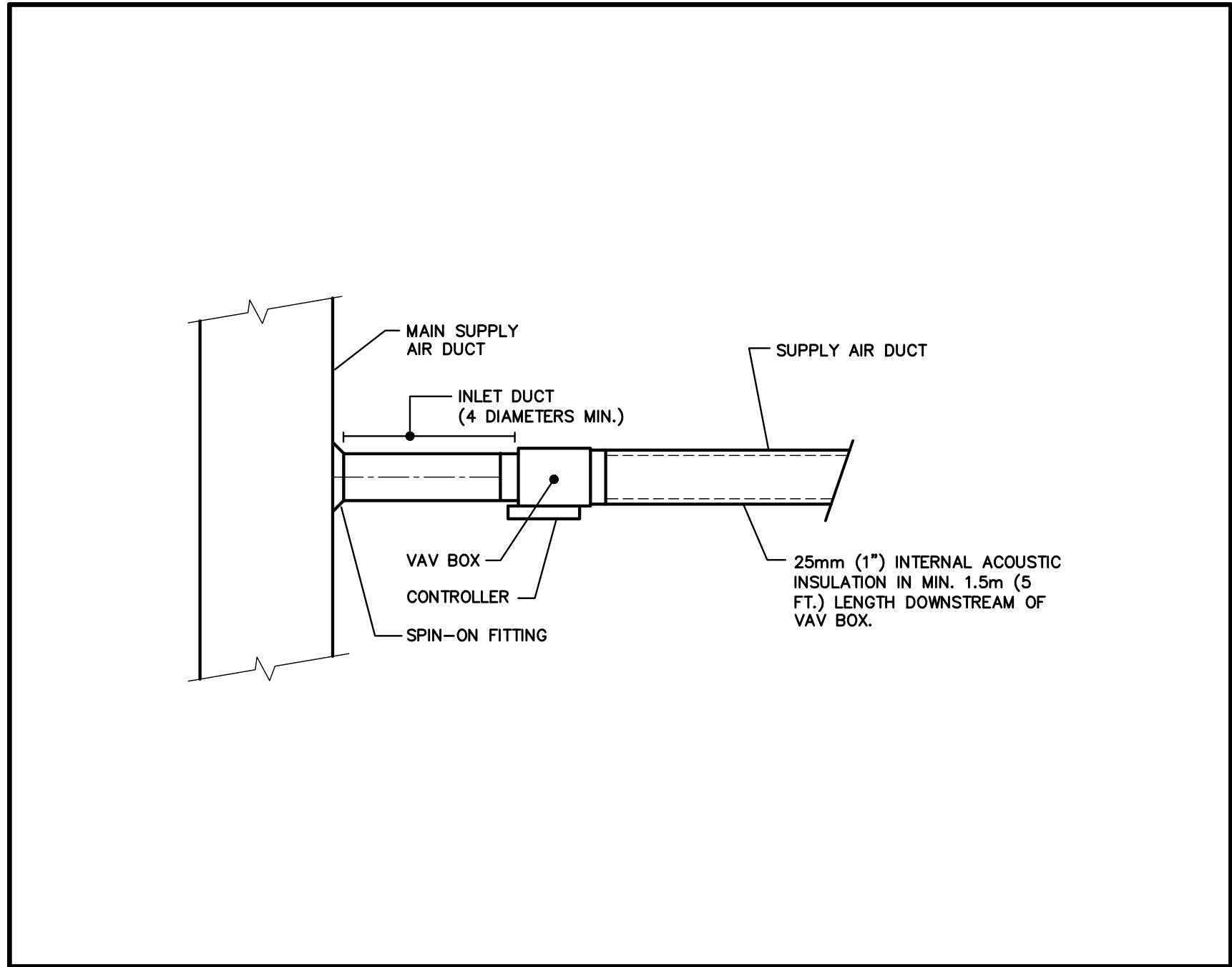
REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS. DO NOT SCALE THIS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

COPYRIGHT © BSN Architects	SHEET NO.:
SCALE : N.T.S.	
DATE : FEB 2024	
PROJECT NO. : 2023-0059	
DRAWN BY : LT	
CHECKED BY : MS	

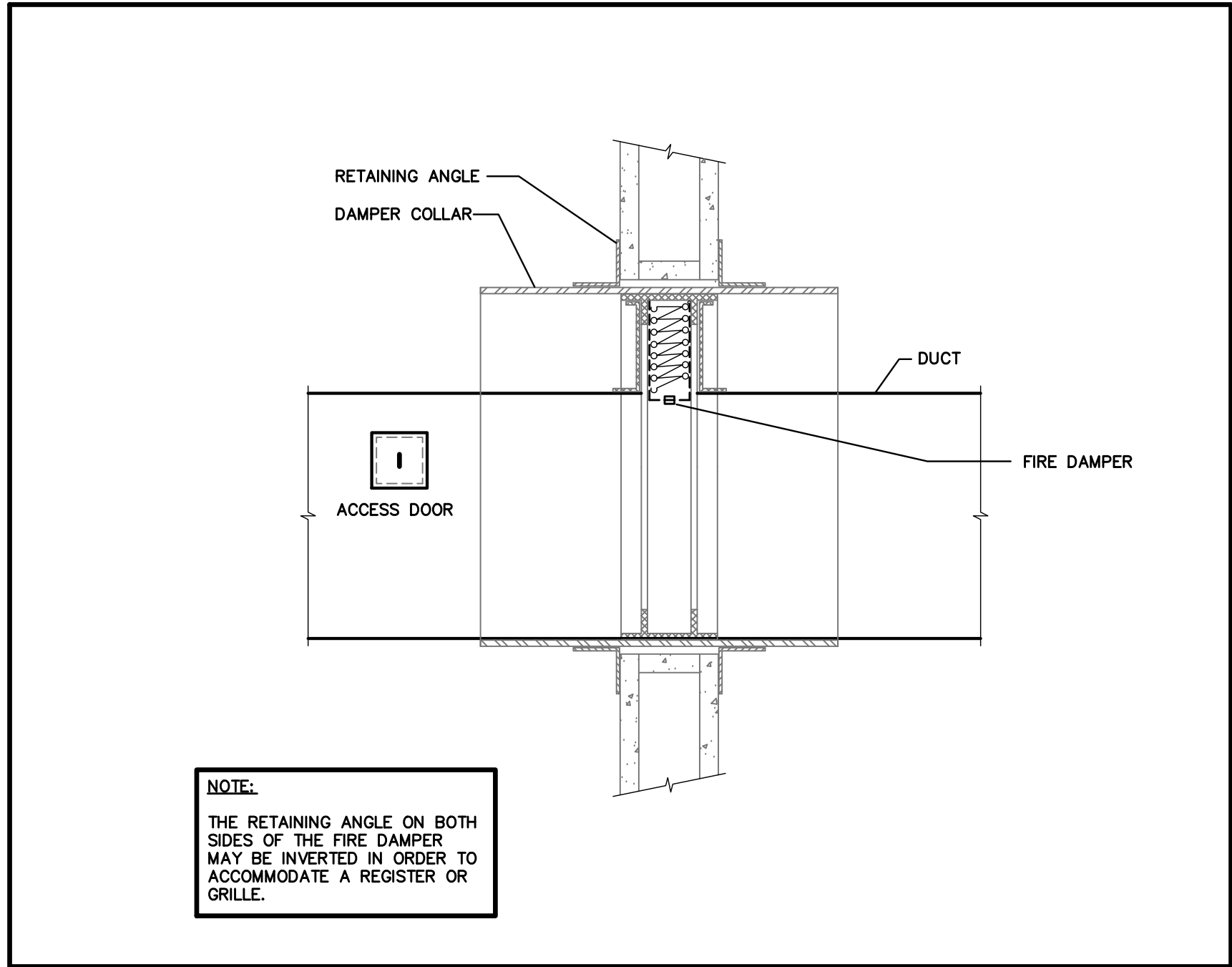
M500



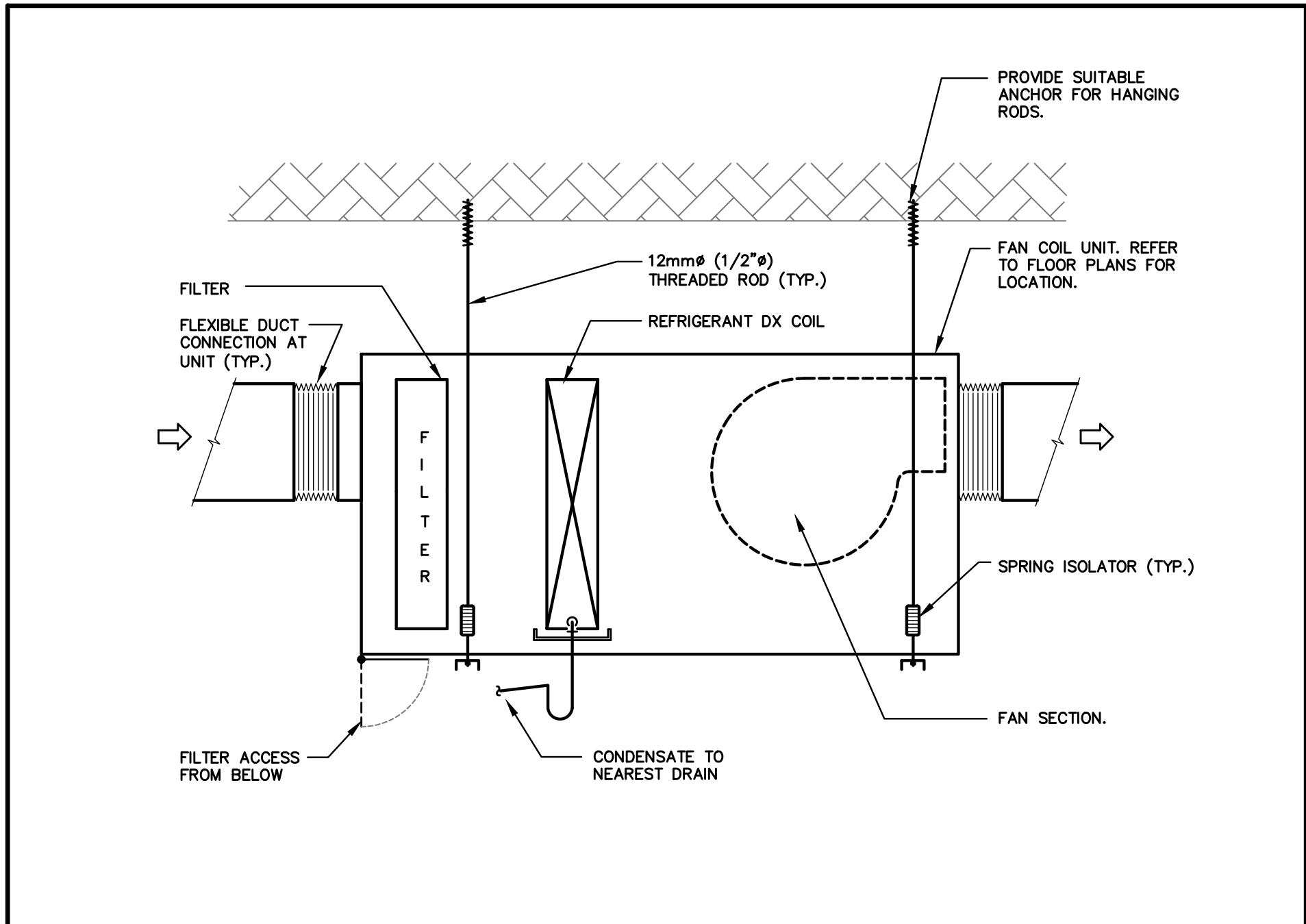
1 ROOF MTG. CENTRIFUGAL EXHAUST FAN
M-501 N.T.S.



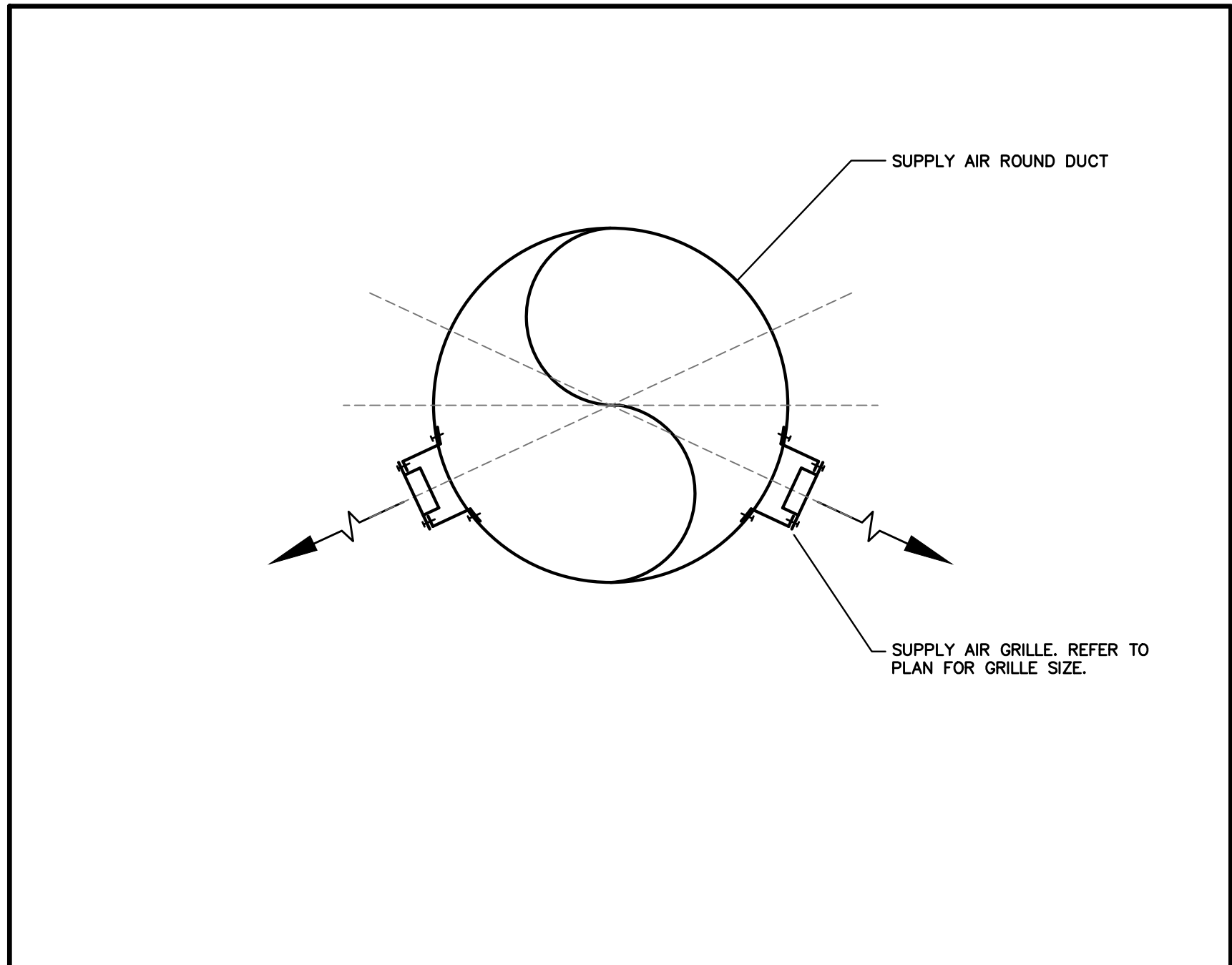
2 VAV BOX DETAIL
M-501 N.T.S.



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.

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

DISCLAIMER:
NOT FOR CONSTRUCTION



CLIENT
UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

TITLE
MECHANICAL DETAILS

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



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.

SCALE :	COPYRIGHT ©	BSN Architects	SHEET NO :
N.T.S.			
DATE : FEB 2024			
PROJECT NO : 2023-0059			
DRAWN BY : LT			
CHECKED BY : MS			

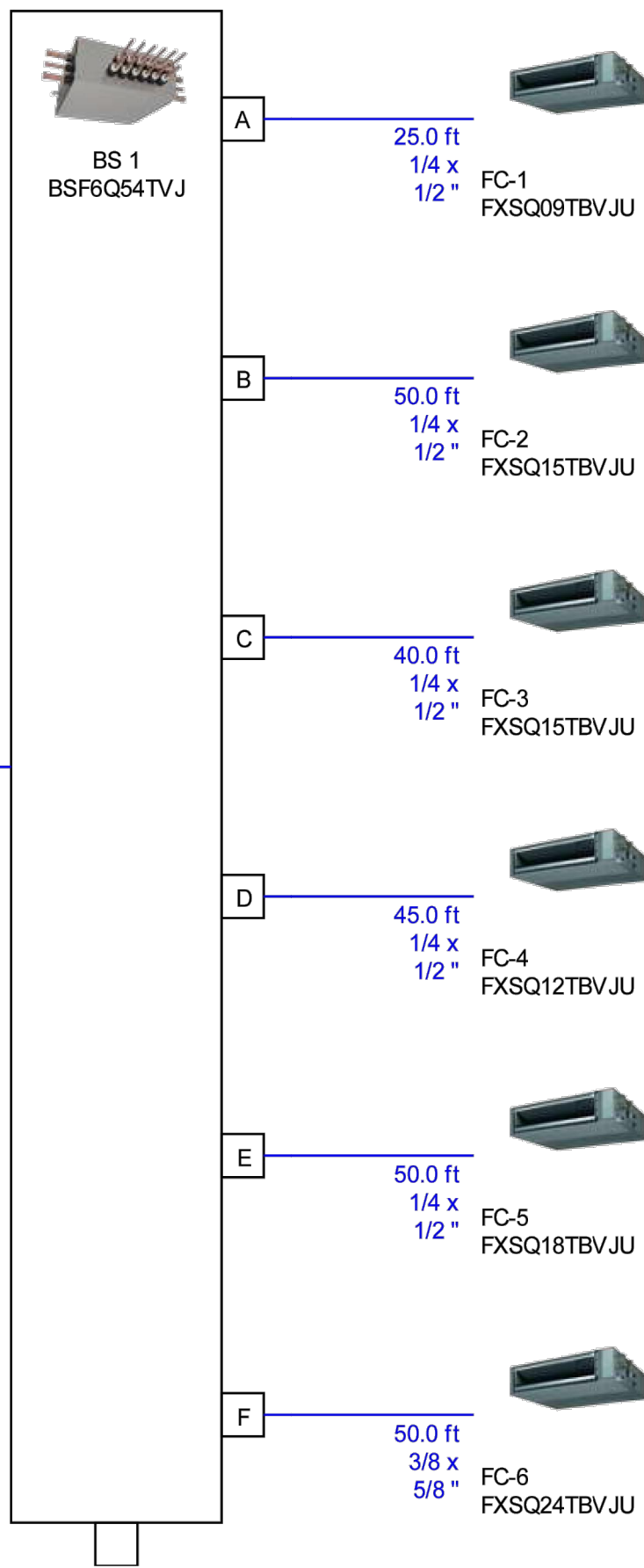
M501



3. Piping Diagrams

Piping CU-1

CU-1
REYQ96AATJA



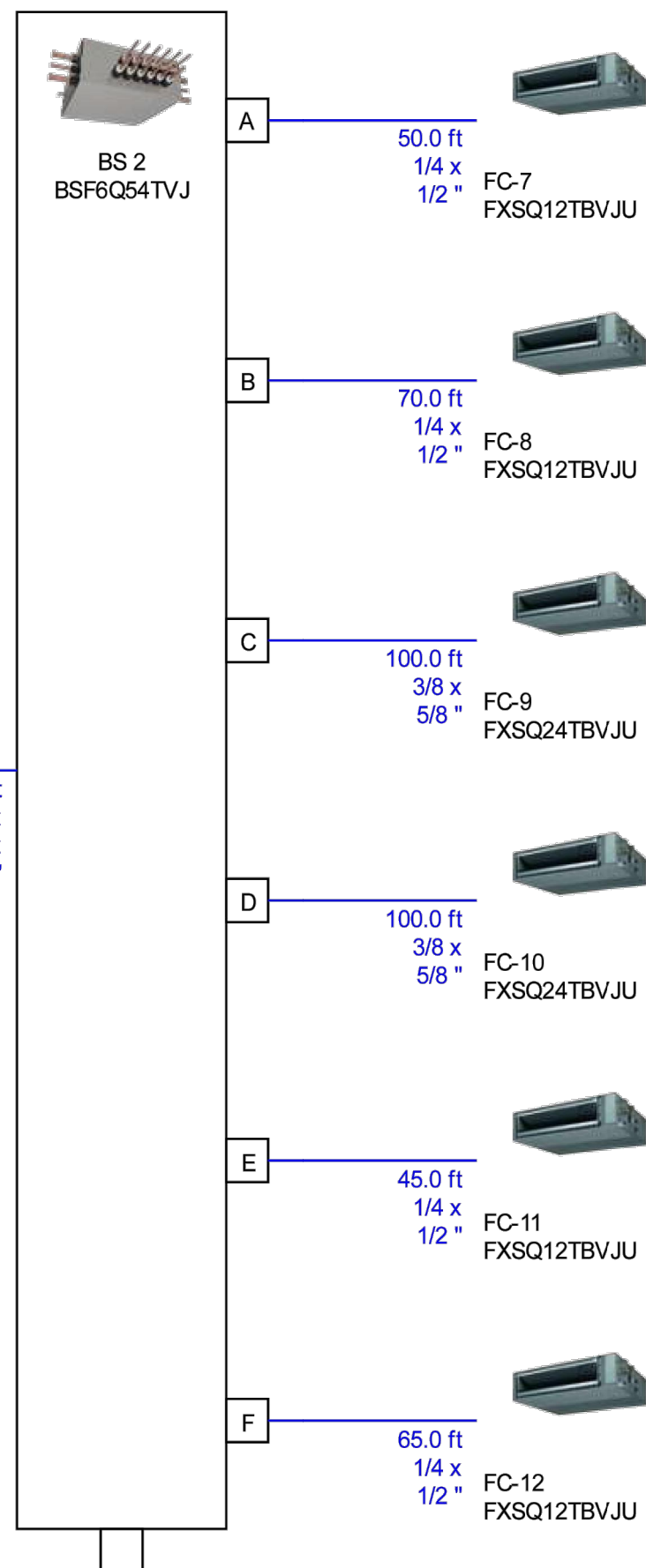
The VRV Selection application is property of Daikin Europe N.V. Daikin Europe N.V. cannot be held liable for any inaccuracy, reliability of the outcome of the VRV Selection application.

4



Piping CU-2

CU-2
REYQ96AATJA



The VRV Selection application is property of Daikin Europe N.V. Daikin Europe N.V. cannot be held liable for any inaccuracy, reliability of the outcome of the VRV Selection application.

5

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

DISCLAIMER:

NOT FOR CONSTRUCTION

CLIENT LOGO



CLIENT

UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT

PRE-ENGINEERED BUILDING

3359 MISSISSAUGA ROAD

TITLE

REFRIGERANT PIPING DIAGRAMS



SEAL



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.

COPYRIGHT © BSN Architects

SCALE : N.T.S.	SHEET NO :
DATE : FEB 2024	
PROJECT NO : 2023-0059	
DRAWN BY : LT	
CHECKED BY : MS	

M502

VARIABLE REFRIGERANT FLOW (VRF) SCHEDULE

INDOOR UNITS													OUTDOOR UNITS											BRANCH SELECTOR BOX	ELEC. (V/PH/Hz)	MCA (A)	RERIGERANT	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	MANUFACTU RER	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	8.3	93.0	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	CU-2	DAIKIN	REYQ96AATJA	35	76.4	8.3	92.0	208/3/60	34.1	35	325	BSF6Q54TVJ	208/1/60	0.6	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 MILLI-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	OUELLET	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	OUELLET	OAS10008AM	700	10	1/30	208/1/60	20	24V RELAY FOR REMOTE THERMOSTAT
UH-2	OUELLET	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:																					

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

DISCLAIMER:

NOT FOR CONSTRUCTION



CLIENT

UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT

PRE-ENGINEERED BUILDING

3359 MISSISSAUGA ROAD

TITLE

MECHANICAL SCHEDULES



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.

COPYRIGHT © BSN Architects
SCALE : N.T.S.
DATE : FEB 2024
PROJECT NO : 2023-0059
DRAWN BY : LT
CHECKED BY : MS

SHEET NO :

M800

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	ENERGY RECOVERY WHEEL – SUPPLY									ENERGY RECOVERY WHEEL – EXHAUST					MAXIMUM FAN SOUND POWER LEVEL OF SPECIFIED EQUIPMENT MAX. PWL IN DB RE 10W*(-12)								MAXIMUM FAN SOUND POWER LEVEL OF SPECIFIED EQUIPMENT MAX. PWL IN DB RE 10W*(-12)								FILTERS	WEIGHT (kg)	REFRIGERANT	EMERGENCY OR NORMAL POWER	REMARKS
	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)		ACTIVE BAND SOUND POWER LABEL (SUPPLY)								ACTIVE BAND SOUND POWER LABEL (EXHAUST)												
		SUMMER	WINTER	SUMMER SENS/TOTAL	WINTER SENS/TOTAL	SUMMER	WINTER	SUMMER	WINTER		SUMMER	WINTER	SUMMER	WINTER	63	125	250	500	1000	2000	4000	8000	63	125	250	500	1000	2000	4000	8000					
MUA-1	860	10.7	21.4	93/92	96/95	32.2/23.9	-20/-20.5	28.3/21.1	-3.8/-4.6	425	23.8/17.2	21.1/12.2	31.2/23.1	-16/-15.9	49	56	67	66	67	68	65	59	43	51	60	58	57	55	54	46	MERV 13	1150	R454B	N	HOT GAS REHEAT, 600mm ROOF CURB, BAGNET CONTROLLER
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	WILO	STAR S 33 ZF	0.1	90	1700	1/4	120/1/60	N	965	WATER	—	DUPLEX SUMP PUMP SYSTEM COMPLETE WITH CONTROLS, FLOATS, CONNECT TO BAS, PIT SHALL BE 1200x1200x3500 DEEP
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	

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)
							TOTAL	SENSIBLE																		
AC-1	120 LAN ROOM	120 LAN ROOM	DAIKIN	FTKF24AXVJU	285	—	6.56	4.80	—	—	208/1/60	14	CU-3	DAIKIN	RKF24AXVJU	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

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

DISCLAIMER:

NOT FOR CONSTRUCTION



UNIVERSITY OF TORONTO MISSISSAUGA

MECHANICAL SCHEDULES



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.

COPYRIGHT ©		BSN Architects
SCALE : N.T.S.	SHEET NO :	M801
DATE : FEB 2024		
PROJECT NO : 2023-0059		
DRAWN BY : LT		
CHECKED BY : MS		

M801

MISSISSAUGA

ONTARIO

DESIGN DATA

- CALCULATION #1 - WET PIPE SYSTEM- GROUND FL

DESIGN CRITERIA

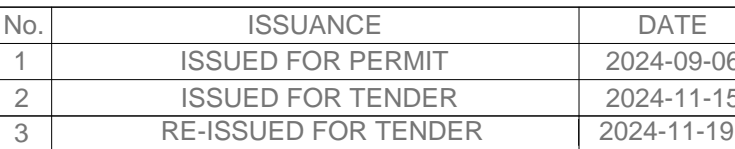
- LAR
ORDINARY GROUP 2, 0.2GPM/1950SQ.FT(DRY), 1500SQ.FT(WET) PLUS 250GPM (TOTAL INSIDE AND OUTSIDE HOSE)
- DESIGN AREA REDUCTION
USING QUICK RESPONSE HEADS(11.2.3.2 NFPA 13) INCLUDING E/C SPRINKLERS ARE USED THROUGHOUT THE SYSTEM, THE SYSTEM AREA SHALL BE PERMITTED TO BE REDUCED WITHOUT REVISING OF THE DENSITY WHEN ALL OF THE FOLLOWING CONDITIONS MEET THE CRITERIA.
1. WET PIPE SYSTEM
 2. LIGHT OR ORDINARY HAZARD
 3. MAX 20'-0" CEILING HEIGHT

CODES AND STANDARDS

- ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE (2012), NFPA 13 (2013), NFPA 14(2013), NFPA20 (2016)

NFPA DETAILS AND GENERAL NOTES.

- SPRINKLER CONTROLLER PROVIDE ADDITIONAL DRAINS AND INSPECTION TEST CONNECTION WHERE IT IS REQUIRED.**
- SPRINKLERS PROTECTING RESIDENTIAL AREAS INSTALLED NEAR SPECIFIC HEAT SOURCE IDENTIFIED IN TABLE 8.3.2(5) MUST BE INSTALLED IN ACCORDANCE WITH TABLE 8.3.2(5)(C).**
- FLOW SWITCHES AND CONTROL VALVES ARE TO BE CONNECTED TO FIRE ALARM SYSTEM BY OTHERS.**
- ALL PIPING IS ON THE FOLLOWS:**
- WET SYSTEMS**
- STEEL PIPE: ALL PIPE SCHED 40 BLACK WITH FLANGED, SCREWED, OR GROOVED ENDS, C-1020**
- PROVIDE FIRE GUARDS TO SPRINKLER HEADS WHEN SUSCEPTIBLE TO DAMAGE**
- ALL HANDERS SHALL BE NOTICED AND SPACED IN ACCORDANCE WITH NFPA 70B (2019)**
- TEST DRAIN CONNECTION TO DISCHARGE TO A SUITABLE LOCATION**
- TAMPER EVIDENT DEVICES SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 70B (2019)**
- SPARE SPRINKLERS SHALL BE PROVIDED IN ACCORDANCE WITH NFPA ADJUNCT TO THE MAIN RISER**
- THE FOLLOWING INFORMATION SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION AS FOLLOWS AND ASSOCIATED VENDOR'S IN THE BUILDING SHALL BE FURNISH FOR THE SAME:**
- a. FOR PROTECTED FACILITIES HAVING UNDER 300 SPRINKLERS; NO FEWER THAN SIX SPRINKLERS
 - b. FOR PROTECTED FACILITIES HAVING 300 TO 1000 SPRINKLERS; NO FEWER THAN 12 SPRINKLERS
 - c. FOR PROTECTED FACILITIES HAVING OVER 1000 SPRINKLERS; NO FEWER THAN 24 SPRINKLERS
- RATE OF TEST IS REQUIRED WHERE PENETRATE IN A RATED WALL/FLOOR AND MUST BE EQUAL TO THE RATING OF THE WALL/FLOOR BEING PENETRATED WITH GULI LISTED FIRE STOP . OWNERS SHALL MAINTAIN AN APPROPRIATE RECORD, AT ALL TIMES IN REGARD WHERE WET SYSTEMS INSTALLED TO PREVENT FREEZING SYSTEM**
- TESTING SHALL BE CONDUCTED PERIODICALLY TESTED IN ACCORDANCE WITH NFPA 13 FOR 30 MINUTS AT TWO PSI ABOVE THE SYSTEM RISK, ALL TESTING MUST BE WITNESSED AND SIGNED BY AN AUTHORIZED REPRESENTATIVE OF THE OWNER**
- FIRE PROTECTION SYSTEM INSTALLER SHALL CO-ORDINATE WITH ALL ARCHITECTURAL, MECHANICAL AND ELECTRICAL CONTRACTORS**
- WHERE PIPE PENETRATES RAISED FLOOR AND FLOORS, THE PENETRATION SHALL BE FIRE**



DISCLAIMER:

NOT FOR CONSTRUCTION



CLIENT

UNIVERSITY OF TORONTO MISSISSAUGA

PROJEC[®]

PRE-ENGINEERED BUILDING

3265 PRINCIPAL'S ROAD MISSISSAUGA

TITLE

SITE PLAN AND GENERAL NOTES



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.

COPYRIGHT © BSN Architect

SCALE : N.T.S	SHEET NO.
DATE : AUG 2024	
PROJECT NO : 2023-0059	
DRAWN BY : SK	
CHECKED BY : AA	

FP 1.1

THESE DRAWINGS ARE THE PROPERTY OF THE ENGINEERS AND SHALL NOT BE ALTERED WITHOUT APPROVAL. DRAWINGS SHALL BE RETURNED UPON REQUEST.

1.2. BEFORE SUBMITTING TENDER FOR THIS WORK, EXAMINE THE SITE, LOCAL SERVICES AND LOCAL CONDITIONS, MECHANICAL DRAWINGS, LOCATION OF EXISTING EQUIPMENT AND SPACE ALLOWANCES TO ASCERTAIN THAT THE WORK CAN BE SATISFACTORILY CARRIED OUT AS SHOWN ON THESE DRAWINGS AND AS HEREIN SPECIFIED. BEFORE COMMENCING WORK, EXAMINE THE WORK AND REPORT AT ONCE, ANY DEFECT OF INTERFERENCE AFFECTING THE WORK OF THIS SECTION OR THE GUARANTEE OF SAME. NO EXTRA WILL SUBSEQUENTLY BE ALLOWED TO COVER ANY THOROUGH INSPECTION OF THE GROUNDS, EXISTING CONDITIONS, DRAWINGS AND SPECIFICATION. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

1.3. THESE DRAWINGS ARE FOR PERMIT, AND FOR PRICING, AND MUST BE ADHERED TO FOR INSTALLATION. IF CONTRACTOR WISHES TO ALTER DRAWINGS, THEN CONTRACTOR IS RESPONSIBLE FOR OBTAINING RE-APPROVALS.

1.4. CONTRACTOR TO SUPPLY AND INSTALL A COMPLETE AND FULLY OPERATIONAL AUTOMATIC SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS AND AS INDICATED IN THE SPECIFICATIONS AND CONFORMING TO N.F.P.A. REQUIREMENTS, O.B.C. REQUIREMENTS AND THE REQUIREMENTS OF THE LOCAL AUTHORITIES.

1.5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL CODES, STANDARDS BY LAWS AND AUTHORITIES HAVING JURISDICTION.

1.6. SYSTEMS TO BE INSTALLED AS PER N.F.P.A. STANDARDS, AND LOCAL AUTHORITIES

1.7. ALL WORK SHALL CONFORM TO C.S.A., E.S.A. CODES, AND LOCAL, MUNICIPAL AND PROVINCIAL LAWS AND REGULATIONS.

1.8. SPRINKLER CONTRACTOR TO CO-ORDINATE INSTALLATION WITH EXISTING SITE CONDITIONS AND ACCEPT RESPONSIBILITY FOR AND COST OF MAKING ADJUSTMENTS TO PIPING TO AVOID INTERFERENCE WITH MECHANICAL, ELECTRICAL AND OTHER BUILDING COMPONENTS.

1.9. SPRINKLER CONTRACTOR TO INCLUDE FOR OFFSETS IN SPRINKLER PIPING AND MUST SUPPLY AND INSTALL TRAPEZIE HANGERS WHERE REQUIRED. HANGERS FOR MAINS TO BE INSTALLED AT PANEL POINTS OF JOISTS.

1.10. ALL MATERIALS USED IN THE INSTALLATION OF THE SPRINKLER SYSTEM SHALL BE CANADIAN MADE, UNLESS SPECIFICALLY APPROVED IN WRITING PRIOR TO INSTALLATION BY THE ARCHITECTS AND/OR ENGINEERS RESPONSIBLE FOR THE SYSTEM DESIGN.

1.11. ALL MATERIALS, PIPING, FITTINGS, VALVES, APPARATUS, SPRINKLERS AND FIRE PROTECTION EQUIPMENT SUPPLIED SHALL BE LISTED (ULC OR FM), AND IN COMPLIANCE WITH NFPA 13 AND 14 STANDARDS.

1.12. ALL SPRINKLERS SHALL BE U.L.C. LISTED AND SHALL BE THE TYPE AND TEMPERATURE RATING SPECIFIED ON THE DRAWINGS. SPRINKLERS OF SUITABLE TEMPERATURE RATING SHALL BE INSTALLED NEAR HEATING EQUIPMENT AS SPECIFIED IN N.F.P.A. STANDARD # 13 (2013 EDITION).

1.13. CONTRACTOR TO ALLOW IN PRICE FOR SUFFICIENT PIPE AND FITTINGS TO INSTALL PENDENT SPRINKLERS WITHIN A 2 FT. RADIUS OF THE LOCATION SHOWN ON DRAWINGS.

1.14. PROVIDE SPARE SPRINKLER HEADS AND WRENCH IN A METAL CABINET, MOUNTED ON THE WALL NEAR THE MAIN SPRINKLER VALVE HEADER. AMOUNT AS PER N.F.P.A. STANDARD # 13.

1.15. UPON COMPLETION OF THE INSTALLATION, THE CONTRACTOR SHALL TEST THE SYSTEM AND SUBMIT TO THE ENGINEER COMPLETED CONTRACTORS TEST CERTIFICATES STATING THAT THE SYSTEMS HAVE BEEN INSTALLED, TESTED AND APPROVED BY THE AUTHORITIES HAVING JURISDICTION IN ACCORDANCE WITH N.F.P.A.#13, LATEST EDITION.

1.16. PENDENT SPRINKLERS INSTALLED WHERE SUSPENDED CEILING TILES OR DRYWALL OCCUR ARE TO BE CONCEALED TYPE C/W ESCUTCHEON PLATES SUPPLIED WITH THE DESIRED COLOUR AND FINISH AS STIPULATED BY THE ARCHITECT AND/OR INTERIOR DESIGNER. (WHERE APPLICABLE)

1.17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF THE FIRE PROTECTION SYSTEMS AND FOR CO-ORDINATION WITH ALL SITE CONDITIONS. BEFORE COMMENCING WORK, EXAMINE THE SITE AND THE EXISTING CONDITIONS AND REPORT IMMEDIATELY TO THE ENGINEER ANY DEFECT OR INTERFERENCE AFFECTING THE COMPLETION OF THE WORK OR THE GUARANTEE OF THIS CONTRACTOR.

1.18. RECORD AS-BUILT DRAWINGS: BE RESPONSIBLE FOR CLEARLY MARKING, AS THE JOB PROGRESSES, ALL CHANGES AND DEVIATIONS FROM THE ROUTING OF SERVICES AND THE LOCATION OF EQUIPMENT SHOWN ON THE CONTRACT DOCUMENTS ON A BOUND SET OF WHITE PRINTS. KEEP THE PRINTS AVAILABLE AT THE SITE FOR PERIODIC INSPECTION THROUGHOUT THE DURATION OF THE WORK. NOTE THAT MARKED-UP WHITE PRINTS SHALL INCORPORATE ALL REVISIONS MADE BY CHANGE ORDERS, ADDENDA, FIELD INSTRUCTION, ETC. HAND THE AS-BUILT DRAWINGS TO THE ENGINEER AT THE END OF THE PROJECT.

1.19. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE CO-OPERATIVE. PERFORM ALL WORK WHICH IS SHOWN, SPECIFIED OR REASONABLY IMPLIED ON THE DRAWINGS, BUT NOT MENTIONED IN THE SPECIFICATIONS OR VICE-VERSA, AS THOUGH FULLY COVERED BY BOTH.

1.20. WARRANT THE MECHANICAL WORK TO BE IN STRICT ACCORDANCE WITH THE CONTRACT DOCUMENTS AND FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ISSUED OF CERTIFICATE OF SUBSTANTIAL PERFORMANCE OF THE WORK. PROVIDE EXTENDED WARRANTY WHERE SPECIFIED IN ALL SUBSEQUENT SECTIONS OF THE SPECIFICATION.

1.21. MAINTAIN LIABILITY INSURANCE WHICH WILL FULLY PROTECT THE OWNER AND THE CONTRACTORS FROM ANY AND ALL CLAIMS UNDER THE WORKPLACE SAFETY & INSURANCE BOARD ACT.

1.22. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THE LAYOUT OF WORK AND FOR ANY DAMAGE CAUSED TO THE PROPERTY OF THE OWNER OR OTHER TRADES THROUGH THE IMPROPER LOCATION OF MATERIALS, EQUIPMENT, OR CARRYING OUT OF THE WORK.

1.23. PROVIDE PIPE HANGERS OR SUPPORTS ON ALL PIPING. HANGER RODS MUST BE VERTICAL WITHOUT BENDS OR OFFSETS AND WORKMANSHIP MUST BE SUCH THAT FINISHED PIPING IS TRUE, BOTH WITH MANUFACTURER'S LINE AND GRADE. METAL STRAPS, WIRES, PERFORATED BANDS, CHAIN OR SOLID RING HANGERS USED AS PIPE HANGERS OR SUPPORTS WILL NOT BE ACCEPTABLE.

1.24. WHERE NEW PIPES PASS THROUGH EXISTING CONCRETE SLABS AND CONCRETE OR MASONRY WALLS, CORE DRILL OR SAW CUT AN OPENING. SIZE OPENINGS TO LEAVE 13 mm (1/2") CLEARANCES AROUND PIPES. PACK AND SEAL THE VOID BETWEEN THE OPENING AND THE PIPES FOR THE LENGTH OF THE OPENING WITH DOW CORNING SERIES 2000. "FIRESTOP" SEALANT U.L.C. APPROVED MATERIAL PACKED AND SECURED IN SUCH A MANNER THAT THE PACKING IN VERTICAL HOLES AND OPENINGS WILL NOT FALL OUT.

1.25. WHERE DISSIMILAR METALS ARE IN CLOSE PROXIMITY TO EACH OTHER, THEY SHALL BE SEPARATED BY MEANS OF WATERPROOF GASKETS OR OF APPROVED MATERIALS. SCREWS, BOLTS, RIVETS AND OTHER FASTENING DEVICES SHALL BE MADE OF THE SAME MATERIALS OR OF MATERIALS HAVING THE SAME CHARACTERISTICS AS THE METALS WHICH THEY FASTEN. IN ORDER TO PREVENT ELECTROLYTIC ACTION. PROVIDE HEAVY BRASS ADAPTORS FOR CONNECTIONS BETWEEN STEEL AND COPPER PIPES.

1.26. NO INSTALLATION SHALL BE CONCEALED OR RENDERED INACCESSIBLE BY DRYWALL, BOARDING OR OTHER BUILDING CONSTRUCTION, UNTIL IT HAS BEEN INSPECTED BY THE ENGINEER AND LOCAL AUTHORITIES HAVING JURISDICTION AND FOUND TO CONFORM TO CONTRACT DOCUMENT AND REGULATIONS. WHEN REQUESTING AN INSPECTION, THE CONTRACTOR SHALL PROVIDE A MINIMUM OF THREE (3) WORKING DAYS NOTICE IN ADVANCE.

1.27. DIMENSIONS AND/OR MEASUREMENTS INDICATED ON THE DRAWINGS ARE TO BE VERIFIED AT SITE AND ANY MAJOR DISCREPANCIES TO BE REPORTED PRIOR TO FABRICATION AND INSTALLATION. (IF APPLICABLE)

1.28. EXACT LOCATION AND ELEVATION OF MAINS TO BE DETERMINED BY CONTRACTOR TO SUIT SITE CONDITIONS.

1.29. CONTRACTOR TO CO-ORDINATE LOCATION OF SPRINKLERS WITH RESPECT TO SURFACE MOUNTED LIGHT FIXTURES AND MAINTAIN MINIMUM CLEARANCE AS REQUIRED BY NFPA 13 TO AVOID ANY OBSTRUCTION TO SPRAY PATTERN OF SPRINKLERS.

1.30. MINIMUM WALL THICKNESS OF SPRINKLER PIPING TO BE EQUIVALENT TO SCHEDULE 10S.

1.31. A COPY OF N.F.P.A STANDARD #25 IS TO BE PROVIDED AND LEFT IN A VISIBLE LOCATION IN THE SPRINKLER ROOM.

1.32. PROVIDE SHOP DRAWINGS FOR THE FOLLOWING: (WHERE APPLICABLE)

2.1. CONTRACTOR IS RESPONSIBLE FOR COMPLETING ALL WORK CONTAINED THROUGHOUT ALL DRAWINGS AND SPECIFICATIONS.

2.2. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND CARRYING ALL INSTALLATIONS IN ACCORDANCE WITH THE LATEST SET OF FIRE PROTECTION DRAWINGS.

2.3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE MOST CURRENT SET OF ARCHITECTURAL, MECHANICAL, ELECTRICAL, STRUCTURAL, INTERIOR DESIGN AND TO COORDINATE ALL WORK WITH THE SCOPE OF WORK ILLUSTRATED IN ALL DRAWINGS.

2.4. CONTRACTOR IS RESPONSIBLE FOR COMPLETING ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, BY LAWS AND REQUIREMENTS STIPULATED BY THE AUTHORITY HAVING JURISDICTION (AHJ).

2.5. CONTRACTOR IS RESPONSIBLE FOR CONDUCTING THEIR OWN QUALITY CONTROL INSPECTIONS AND SPOT CHECKS OF PREVIOUSLY COMPLETED WORK, TO ENSURE ALL SYSTEM COMPONENTS ARE FREE OF ANY DEFECTS AND TO ENSURE ALL DEFICIENCIES AND WORK HAS BEEN COMPLETED.

2.6. CONTRACTOR SHALL KEEP ONE CLEAN FULL SET OF DRAWINGS ON SITE, TO BE MARKED UP TO REFLECT ANY AND ALL CHANGES MADE TO THE DESIGN. THIS AS-BUILT DRAWING SHALL BE MADE AVAILABLE TO ANC AND/OR AHJ (IF REQUESTED) UPON ARRIVAL AND PRIOR TO ANY INSPECTIONS BEING CONDUCTED.

2.7. WORK SHALL BE INSPECTED AND APPROVED BY THE HIDI GROUP PRIOR TO INSTALLATION OF ANY WALLS, PARTITIONS, CEILINGS OR OTHER ASSEMBLIES THAT WOULD CONCEAL THE COMPLETED WORK. CONTRACTOR IS RESPONSIBLE FOR REQUESTING (AS PER THE TERMS STIPULATED IN THE SPECIFICATIONS) TIMELY INSPECTIONS (WHERE APPLICABLE) BY THE HIDI GROUP AND/OR AHJ.

2.8. UPON COMPLETION OF ALL WORK, CONTRACTOR SHALL COMPLETE THE NECESSARY TESTING AND COMMISSIONING, AS STIPULATED IN NPFA 13, 14, 25 THE ONTARIO BUILDING CODE, ONTARIO FIRE CODE AND AS REQUESTED BY THE LOCAL FIRE DEPARTMENT (AHJ).

3. SCOPE OF WORK NOT INCLUDED

3.1. ELECTRICAL WIRING (UNLESS SPECIFICALLY NOTED)

3.2. FIRE ALARM SYSTEM

3.3. ANY PIPING AND MECHANICAL WORK NOT RELATED TO SPRINKLER AND STANDPIPE

3.4. CONNECTION / WIRING FROM ANY SUPERVISORY DEVICES TO THE FIRE ALARM CONTROL PANEL / SYSTEM.

3.5. UNDERGROUND WATER SERVICE

3.6. ANY PIPE, FITTING OR APPARATUS UPSTREAM OF THE FIRE PROTECTION DOUBLE CHECK VALVE ASSEMBLY.

4. MATERIALS SUPPLIED

4.1. ALL PIPE, FITTINGS, HANGERS, ACCESSORIES AND OTHER MISCELLANEOUS PARTS SUPPLIED SHALL COMPLY WITH O.B.C., APPLICABLE NFPA STANDARDS, AND AS SPECIFIED THROUGHOUT MECHANICAL DIVISION 15 SPECIFICATIONS AND ANC BOOKLET SPECIFICATIONS (SECTIONS...)

4.2. SPRINKLERS

4.2.1. ALL SPRINKLER EQUIPMENT SHALL BE OF ONE MANUFACTURER FROM THE FOLLOWING:

4.2.1.1. VICTAULIC

4.2.1.2. VIKING

4.2.1.3. TYCO

4.2.1.4. RELIABLE, OR APPROVED EQUAL. ALL SHALL BE U.L.C. LISTED FOR THEIR SPECIFIC APPLICATION.

4.1. ALL PIPE, FITTINGS, HANGERS, ACCESSORIES AND OTHER MISCELLANEOUS PARTS SUPPLIED SHALL COMPLY WITH O.B.C., APPLICABLE NFPA STANDARDS, AND AS SPECIFIED THROUGHOUT MECHANICAL DIVISION 15 SPECIFICATIONS AND ANC BOOKLET SPECIFICATIONS (SECTIONS.....)

4.2. SPRINKLERS

4.2.1. ALL SPRINKLER EQUIPMENT SHALL BE OF ONE MANUFACTURER FROM THE FOLLOWING:

4.2.1.1. VICTAULIC

4.2.1.2. VIKING

4.2.1.3. TYCO

4.2.1.4. RELIABLE, OR APPROVED EQUAL. ALL SHALL BE U.L.C. LISTED FOR THEIR SPECIFIC APPLICATION.

4.3.1. FLEXIBLE HOSES SHALL BE 1/2" VCI ULIC MODEL APF-2.

4.3.2. CONTRACTOR MAY USE 1 INCH DIA. FLEXIBLE DROPS WITH A MAXIMUM LENGTH OF 4 FEET WITH A MAXIMUM OF 4, 90 DEGREE BENDS. FLEXIBLE PIPING IF USED IS TO BE STAINLESS STEEL WITH BRAIDED CONNECTION, SINGLE PIECE WELDED CONSTRUCTION WITH NO O-RINGS OR GASKETS, ULC LISTED AND FM APPROVED.

4.4. PIPING

4.4.1. REFER TO ANC SPECS AND GENERAL INSTALLATION NOTES CONTAINED ON FP-1.

4.4.2. CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROPER SLEEVING FOR ALL PIPING PENETRATIONS THROUGH WALLS AND FLOOR ASSEMBLIES.

4.4.3. CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, PATCHING AND FIRE STOPPING ASSOCIATED WITH FIRE PROTECTION PIPING AND APPARATUS.

4.4.1. REFER TO AISC SPECS AND GENERAL INSTALLATION NOTES CONTAINED ON FP-1.

4.4.2. CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROPER SLEEVING FOR ALL PIPING PENETRATIONS THROUGH WALLS AND FLOOR ASSEMBLIES.

4.4.3. CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, PATCHING AND FIRE STOPPING ASSOCIATED WITH FIRE PROTECTION PIPING AND APPARATUS.

4.5.1. ALL EQUIPMENT SUPPLIED AND INSTALLED SHALL BE U.L.C. LISTED.

4.5.2. ALL EQUIPMENT SHALL BE LISTED TO A MINIMUM OF 300 PSIG WORKING PRESSURE.

4.5.3. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND KEPT DEFECT FREE.

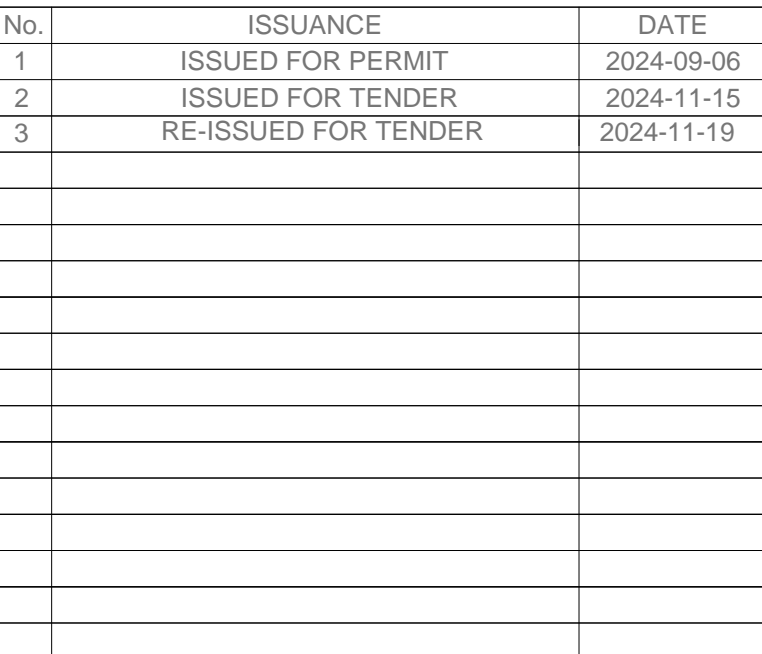
4.5.4. REFER TO ANC BOOKLET SPECIFICATIONS FOR DETAILS RELATED TO THE FIRE PUMP AND CONTROLLER AND OTHER ACCESSORIES

4.5.5. CONTRACTOR IS RESPONSIBLE TO INCLUDE FOR ALL CONCRETE PADS AND OTHER REQUIRED STRUCTURAL SUPPORTS RELATED TO FIRE PROTECTION.

5.1. CONTRACTOR SHALL CARRYOUT ALL TESTING AND COMMISSIONING AND QUALITY CONTROL AND RECTIFY ANY AND ALL DEFICIENCIES THAT MAY EXIST. ONCE SATISFACTORY AND DEFICIENT FREE, CONTRACTOR SHALL REQUEST IN WRITING TO HAVE THE HIDI CONDUCT A FINAL INSPECTION OF ALL WORK AND TO DEMONSTRATE SATISFACTORY OPERATION OF SUPERVISORY DEVICES AND ANY OTHER EQUIPMENT/APPARATUS.

5.2. CONTRACTOR SHALL PROVIDE ALL NECESSARY HYDRAULIC PLATES, STARTUP REPORTS, MANUALS, PRESSURE TEST AND OTHER VALVE/APPARATUS TEST CERTIFICATES.

5.3. IN ADDITION TO THE ABOVE LISTED, UPON COMPLETION OF ALL TESTING AND COMMISSIONING, CONTRACTOR SHALL PROVIDE 3 SETS OF MAINTENANCE AND OPERATING MANUALS, AS WELL AS ELECTRONIC AND HARD COPIES OF RECORD DRAWINGS.



NOT FOR CONSTRUCTION



3265 PRINCIPAL'S ROAD MISSISSAUGA

TITLE

SPECIFICATION



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.

COPYRIGHT ©		BSN Architects
SCALE : N.T.S	SHEET NO :	FP 1.2
DATE : AUG 2024		
PROJECT NO : 2023-0059		
DRAWN BY : SK		
CHECKED BY : AA		

FP 1.2

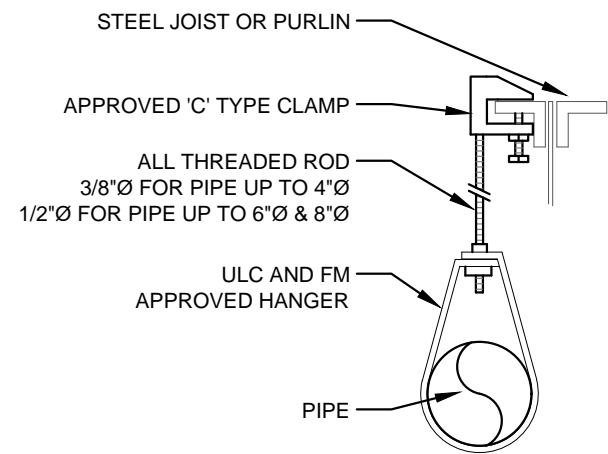


TABLE 9.2.2.1(A) MAXIMUM DISTANCE BETWEEN HANGERS (FT-IN.) 2013 EDITION

	NOMINAL PIPE SIZE (IN.)													
	3/4	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8		
STEEL PIPE EXCEPT THREADED LIGHT WALL	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0		
THREADED LIGHTWALL STEEL PIPE	N/A	12-0	12-0	12-0	12-0	12-0	12-0	N/A	N/A	N/A	N/A	N/A		
COPPER TUBE	8-0	8-0	10-0	10-0	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0		
CPVC	5-6	6-0	6-6	7-0	8-0	9-0	10-0	N/A	N/A	N/A	N/A	N/A		
DUCTILE IRON PIPE	N/A	N/A	N/A	N/A	N/A	N/A	15-0	N/A	15-0	N/A	15-0	15-0		

MAXIMUM
36 IN.(0.9 M) FOR 1 IN.PIPE
48 IN.(1.2 M) FOR 1 1/4" IN.PIPE
60 IN.(1.5M) FOR 1 1/2" IN.PIPE

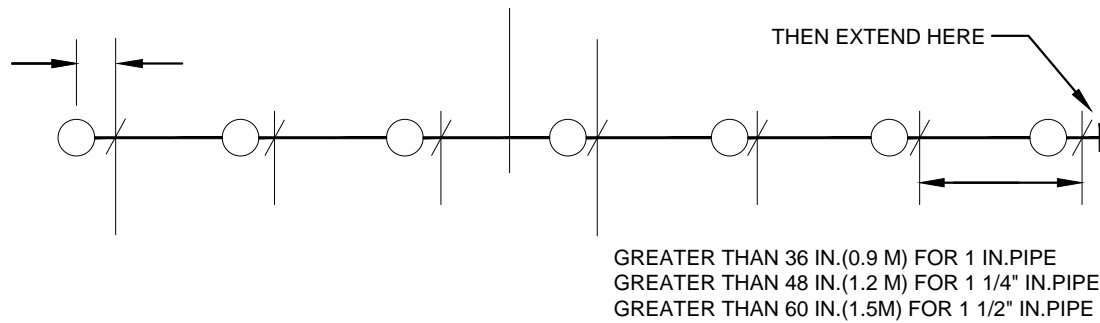


FIGURE A 9.2.3.4. DISTANCE FROM SPRINKLER TO HANGER.

FOR ANY PIPE SIZE:
12 IN.(305MM) MAXIMUM FOR STEEL PIPE
6 IN.(152MM) MAXIMUM FOR STEEL PIPE

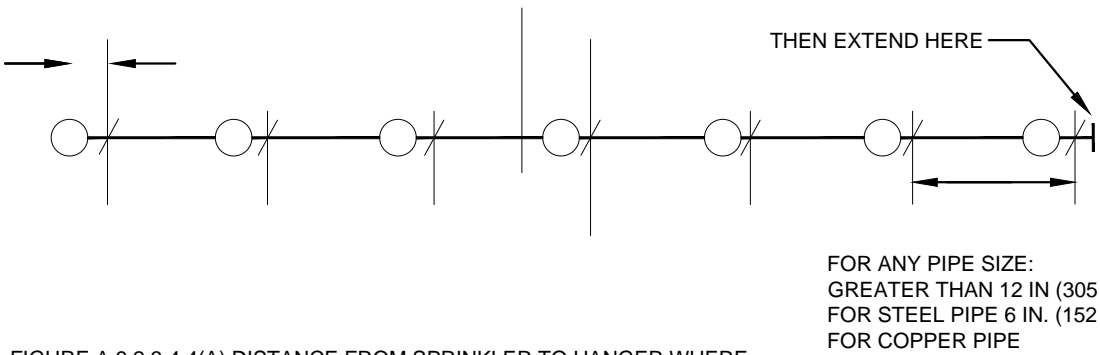


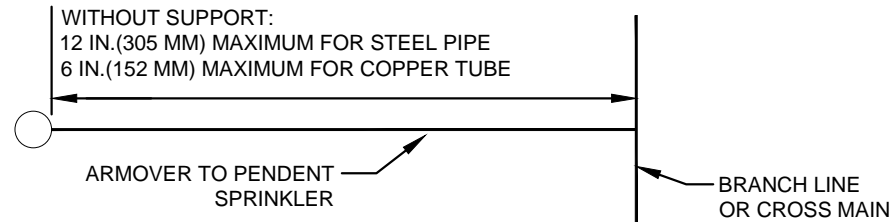
FIGURE A 9.2.3.4.4(A) DISTANCE FROM SPRINKLER TO HANGER WHERE MAXIMUM PRESSURE EXCEEDS 100 PSI(6.9 BAR) AND BRANCH LINE ABOVE CEILING SUPPLIES PENDENT SPRINKLERS BELOW CEILING.

1 TYPICAL HANGER INSTALLATION

FP 2.1

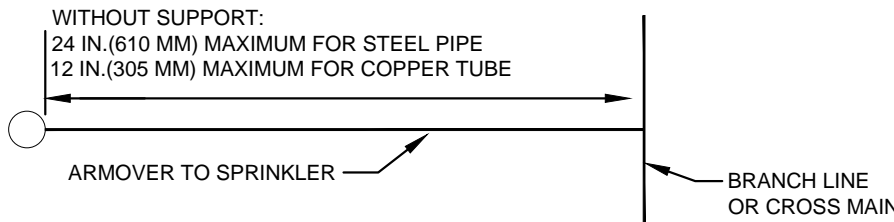
SCALE: N.T.S.

FIGURE A 9.2.3.5.2

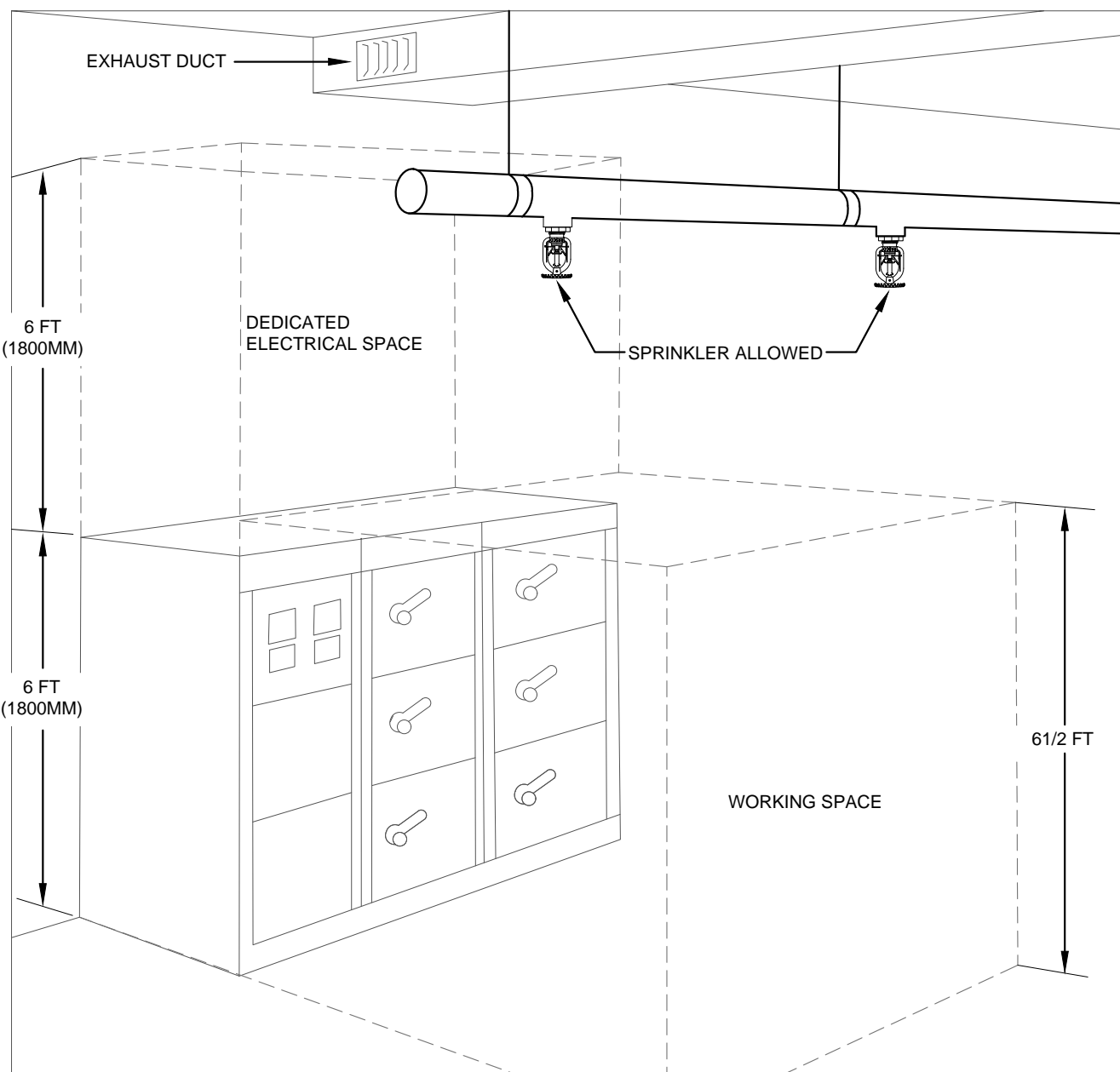


MAXIMUM LENGTH OF UNSUPPORTED ARMOVER WHERE MAXIMUM PRESSURE EXCEEDS 100PSI(6.9BAR) AND BRANCH LINE ABOVE CEILING SUPPLIES PENDENT SPRINKLERS BELOW CEILING

FIGURE A 9.2.3.5.



MAXIMUM LENGTH OF UNSUPPORTED ARMOVER



- SPRINKLERS AND SPRINKLER PIPING IS PERMITTED IN AND IS PERMITTED TO PASS THROUGH AN ELECTRICAL ROOM AS LONG AS THE PIPING IS NOT WITHIN THE "DEDICATED ELECTRICAL SPACE"
- DEDICATED ELECTRICAL SPACE IS DEFINED AS THE SPACE EQUAL TO THE WIDTH AND THE DEPTH OF THE EQUIPMENT EXTENDING FROM THE FLOOR TO A HEIGHT OF 1.8M ABOVE THE EQUIPMENT OR STRUCTURAL CEILING, WHICHEVER IS LOWER.
- FOREIGN (SPRINKLER PIPING) SYSTEMS ARE ALLOWED IN THE AREA ABOVE THE DEDICATED ELECTRICAL SPACE AS LONG AS THE ELECTRICAL EQUIPMENT IS PROPERLY PROTECTED AGAINST LEAKS OR BREAKS IN THE FOREIGN SYSTEM.
- SO THE SPRINKLER PIPING CAN RUN ABOVE THE DEDICATED ELECTRICAL SPACE 1.8M ABOVE EQUIPMENT AS LONG AS THE EQUIPMENT BELOW IS PROTECTED FROM LEAKS
- SPRINKLERS SHALL NOT BE REQUIRED IN ELECTRICAL ROOMS WHERE ALL OF THE FOLLOWING CONDITIONS ARE MET:
 - 1. THE ROOM IS DEDICATED TO ELECTRICAL EQUIPMENT ONLY.
 - 2. ONLY DRY-TYPE OR LIQUID-TYPE WITH LISTED K-CLASS FLUID ELECTRICAL EQUIPMENT IS USED
 - 3. EQUIPMENT IS INSTALLED IN A 2 HR FIRE RATED ENCLOSURE INCLUDING PROTECTION FOR PENETRATIONS
 - 4. STORAGE IS NOT PERMITTED IN THE ROOM

2 UNSUPPORTED ARMOVER LENGTH

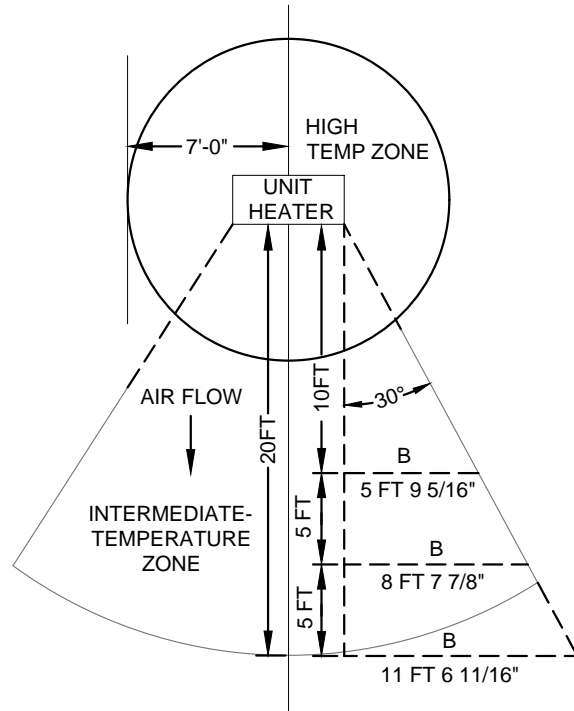
FP 2.1

SCALE: N.T.S.

3 SPRINKLERS WITHIN ELECTRICAL ROOM

FP 2.1

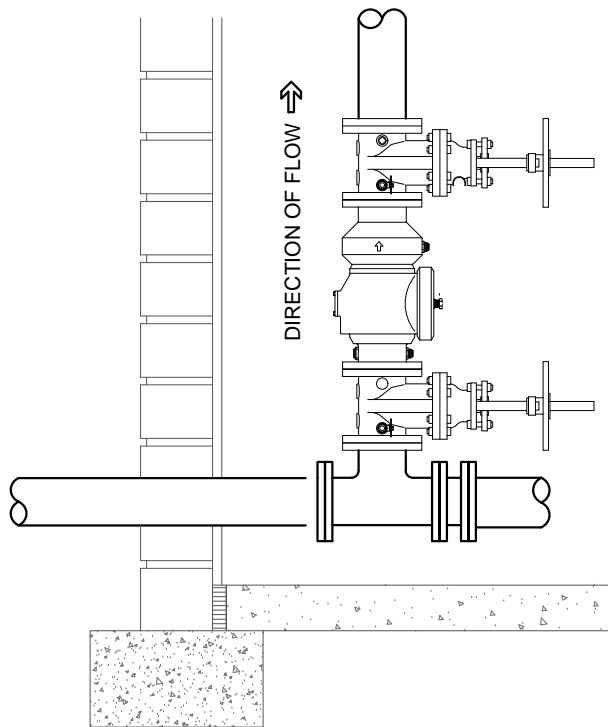
SCALE: N.T.S.



NOTE:

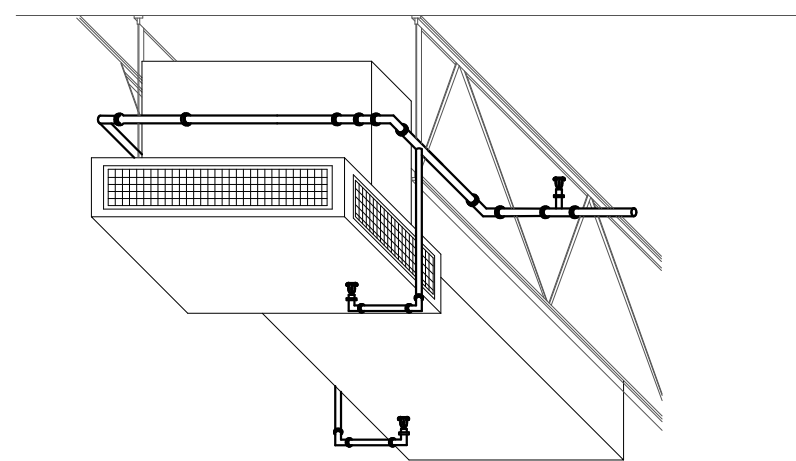
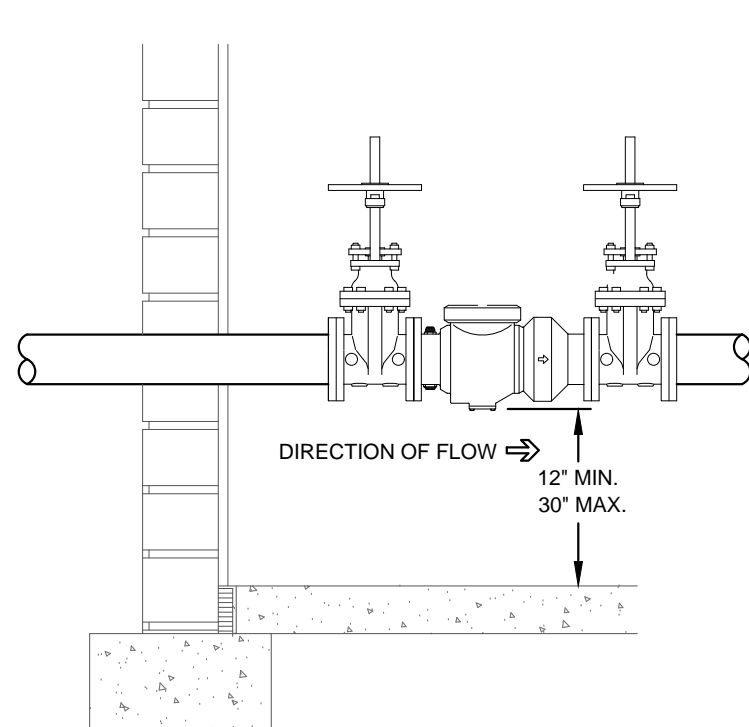
- PROVIDE ADDITIONAL SPRINKLER HEADS FOR MECHANICAL ROOMS TO ACCOMMODATE DUCTWORKS.
- HIGH TEMPERATURE RATING SPRINKLER TO BE INSTALLED WITHIN 7FT. OF UNIT HEATER.
- ALL OF SPRINKLERS ON MECHANICAL ROOMS TO BE C/W 1" OUTLET.
- SPRINKLER BRANCH LINE TO PROVIDE SPRINKLER PROTECTION (HEADS C/W WIRE GUARDS) LOCATED BELOW ALL EXPOSED DUCTWORK AS REQUIRED TO MEET NFPA 13 AND LOCAL AUTHORITY STANDARDS AND REQUIREMENTS. DETERMINE EXTENT OF COVERAGE ON SITE AND EXTEND PIPING AS REQUIRED.

INDOOR VERTICAL INSTALLATION



WILKINS MODEL 350A OR EQUIVALENT

INDOOR HORIZONTAL INSTALLATION



4 TEMPERATURE ZONE AT UNIT HEATER(FIGURE 8.3.2.5)

FP 2.1

SCALE: N.T.S.

5 6" DOUBLE CHECK DETECTOR ASSEMBLY

FP 2.1

SCALE: N.T.S.

6 SPRINKLER UNDER DUCTS

FP 2.1

SCALE: N.T.S.



TRUE NORTH



PROJECT NORTH

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

DISCLAIMER:

NOT FOR CONSTRUCTION

CLIENT LOGO



CLIENT

UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT

PRE-ENGINEERED BUILDING

3265 PRINCIPAL'S ROAD MISSISSAUGA

TITLE

NFPA FIGURES AND GENERAL NOTES

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

SEAL



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.

COPYRIGHT © BSN Architects

SCALE : N.T.S. SHEET NC :

DATE : AUG 2024

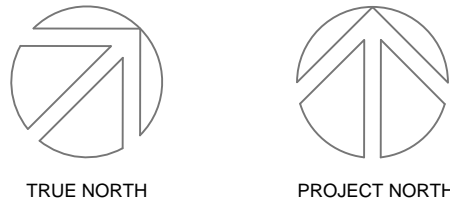
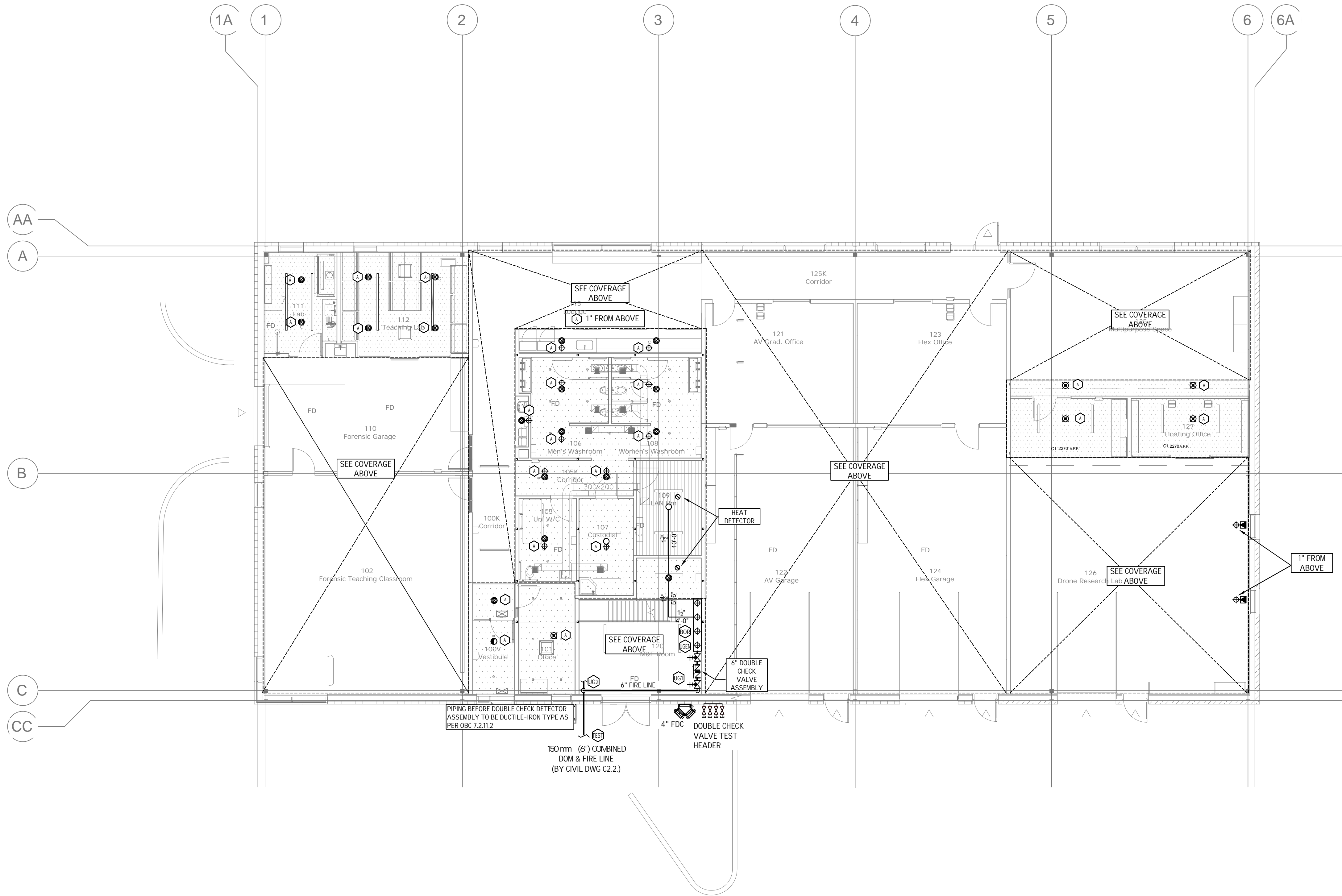
PROJECT NO : 2023-0059

DRAWN BY : SK

CHECKED BY : AA

FP 2.1

FP 2.2



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						
S/R-STANDARD RESPONSE			Q/R-QUICK RESPONSE			
S/C-STANDARD COVERAGE			E/C-EXTENDED COVERAGE			
F/R-FAST RESPONSE						
			C/W GUARD			
	THREAD SIZE	K-FACTOR	TEMP. RATING	STYLE(MODEL)	RESPONSE	QTY.
○	1/2"	5.6	155° F	PENDENT S/C	Q/R	2
⊗	1/2"	11.2	165° F	CONCEALED PENDENT E/C	Q/R	5
⊗	1/2"	5.6	155° F	CONCEALED PENDENT S/C(VKS.4)	Q/R	18
●	1"	5.6	155° F	DRY CONCEALED PENDENT S/C	Q/R	1
⬇	1/2"	5.6	155° F	WINDOW SPRINKLERS HORIZONTAL SIDEWALL	F/R	2
SYMBOL	DESCRIPTION					QTY.

DISCLAIMER:
NOT FOR CONSTRUCTION



CLIENT
UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT
PRE-ENGINEERED BUILDING
3265 PRINCIPAL'S ROAD MISSISSAUGA

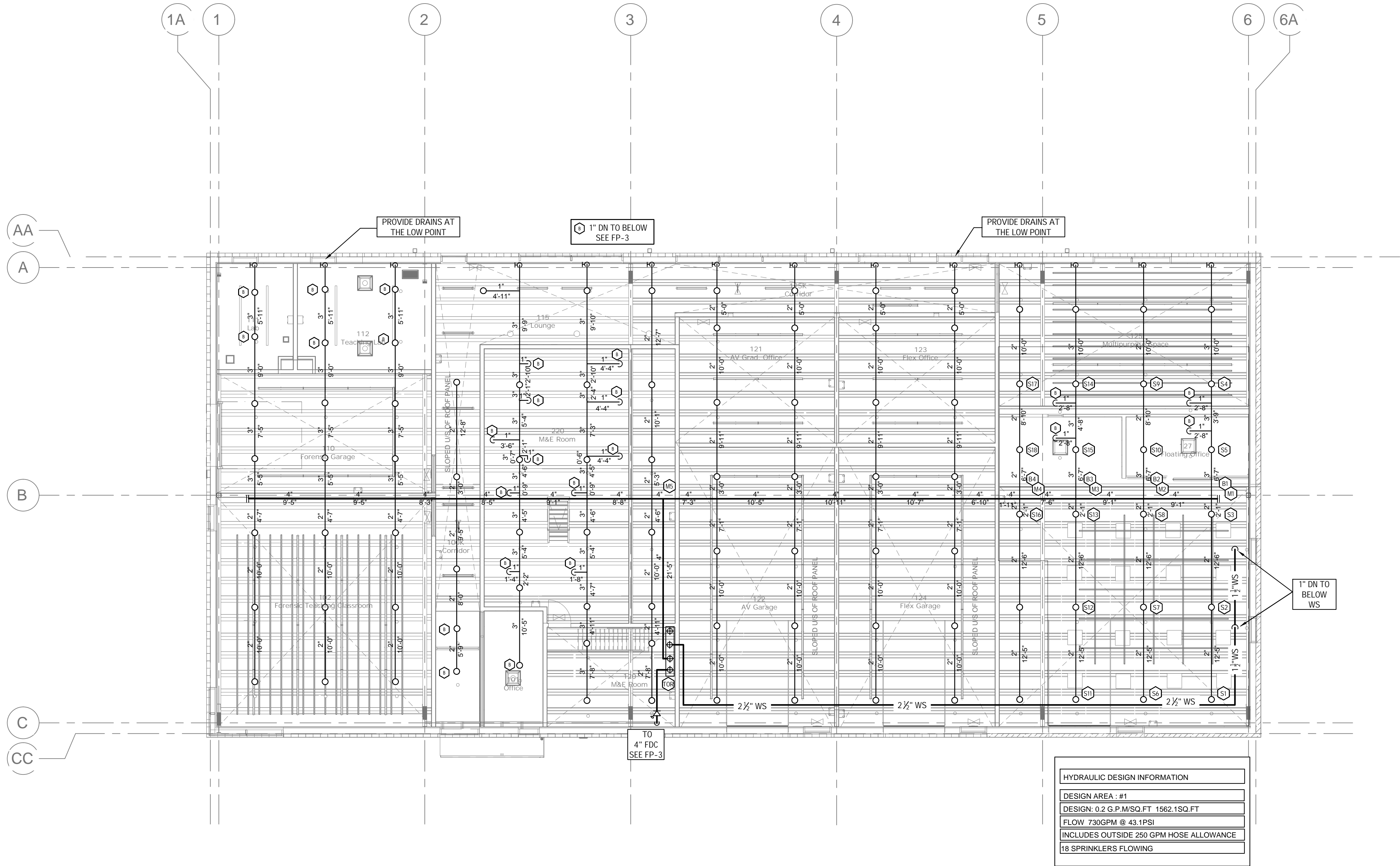
TITLE
PROPOSED SPRINKLER LAYOUT - GROUND FLOOR


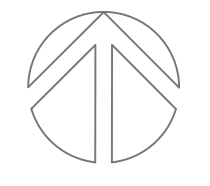
THEHIDIGROUP
155 Gordon Baker Road, Suite 200
Toronto, ON M2H 3N5 Canada
t. 416 364 2100 | HIDI.com

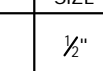
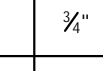
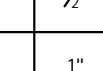
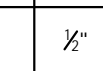
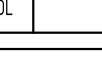


REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS. DO NOT SCALE THIS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

COPYRIGHT © BSN Architects	
SCALE : 1:100	SHEET NC :
DATE : AUG 2024	
PROJECT NO : 2023-0059	
DRAWN BY : SK	
CHECKED BY : AA	



<div><div>TRUE NORTH</div><div>PROJECT NORTH</div></div>		
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						
S/R-STANDARD RESPONSE			O/R-QUICK RESPONSE			
S/C-STANDARD COVERAGE			E/C-EXTENDED COVERAGE			
F/R-FAST RESPONSE			C/W GUARD			
	THREAD SIZE	K-FACTOR	TEMP. RATING	STYLE(MODEL)	RESPONSE	QTY.
	1/2"	5.6	155° F	PENDENT S/C	O/R	98
	1/2"	11.2	165° F	CONCEALED PENDENT E/C	O/R	-
	1/2"	5.6	155° F	CONCEALED PENDENT S/C(VK5.6)	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	-
SYMBOL	DESCRIPTION					QTY.

DISCLAIMER:
NOT FOR CONSTRUCTION



CLIENT
UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT
PRE-ENGINEERED BUILDING
3265 PRINCIPAL'S ROAD MISSISSAUGA

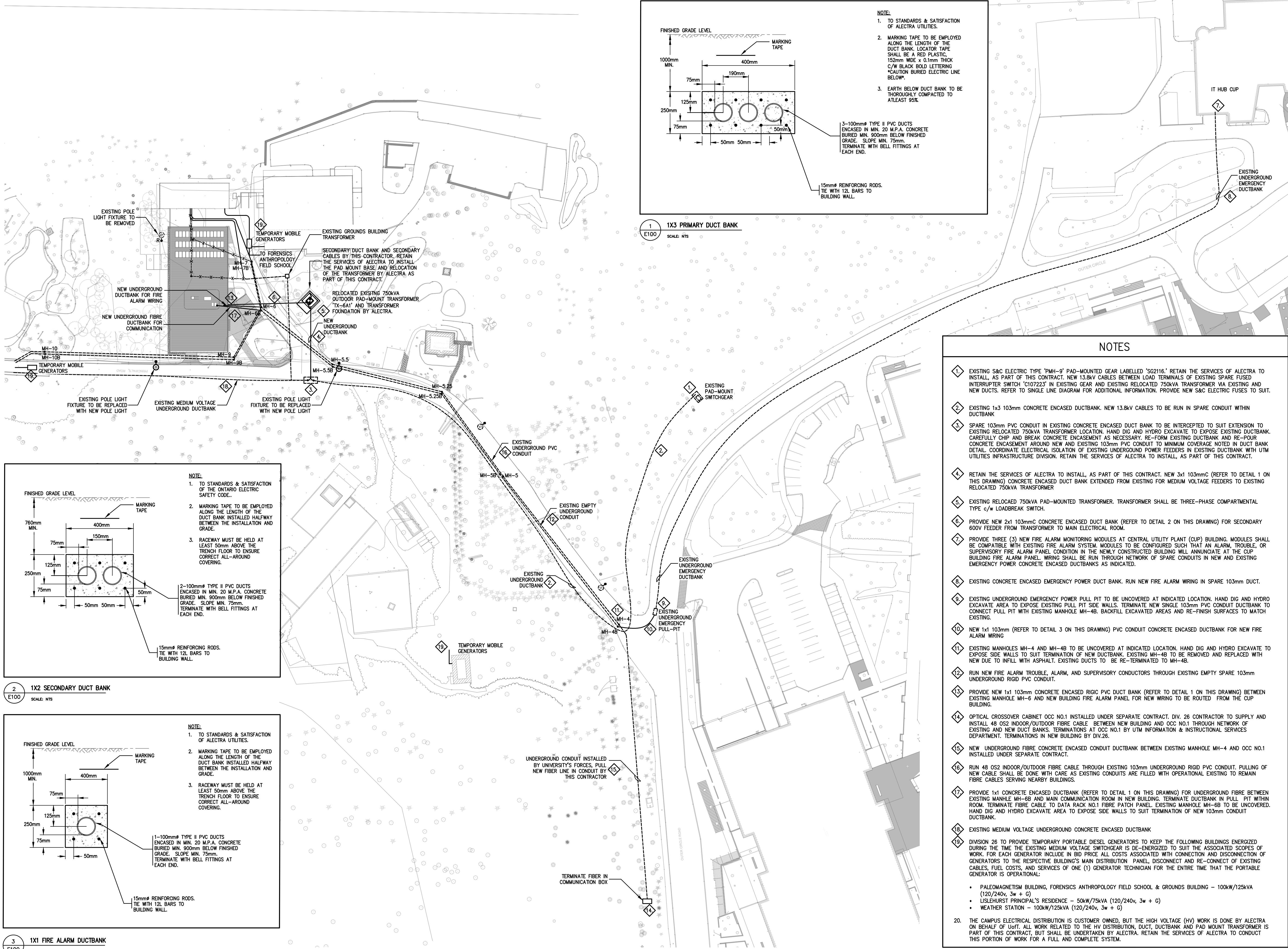
TITLE
PROPOSED SPRINKLER LAYOUT
- MEZZ FLOOR

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



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.

COPYRIGHT © BSN Architects	
SCALE : 1:100	SHEET NO :
DATE : AUG 2024	FP 4
PROJECT NO : 2023-0059	
DRAWN BY : SK	
CHECKED BY : AA	



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 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

DISCLAIMER:

NOT FOR CONSTRUCTION

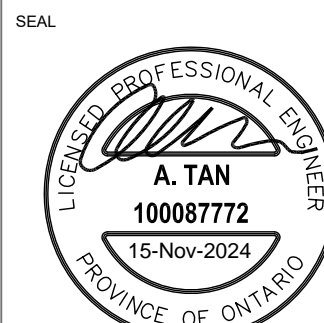


UNIVERSITY OF TORONTO MISSISSAUGA

PRE-ENGINEERED BUILDING

ELECTRICAL SITE PLAN

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



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.

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

E100

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	2024-03-01
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

DISCLAIMER:

NOT FOR CONSTRUCTION

CLIENT LOGO



CLIENT

UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT

PRE-ENGINEERED BUILDING

3359 MISSISSAUGA ROAD

TITLE

LIGHTING LAYOUT

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

SEAL



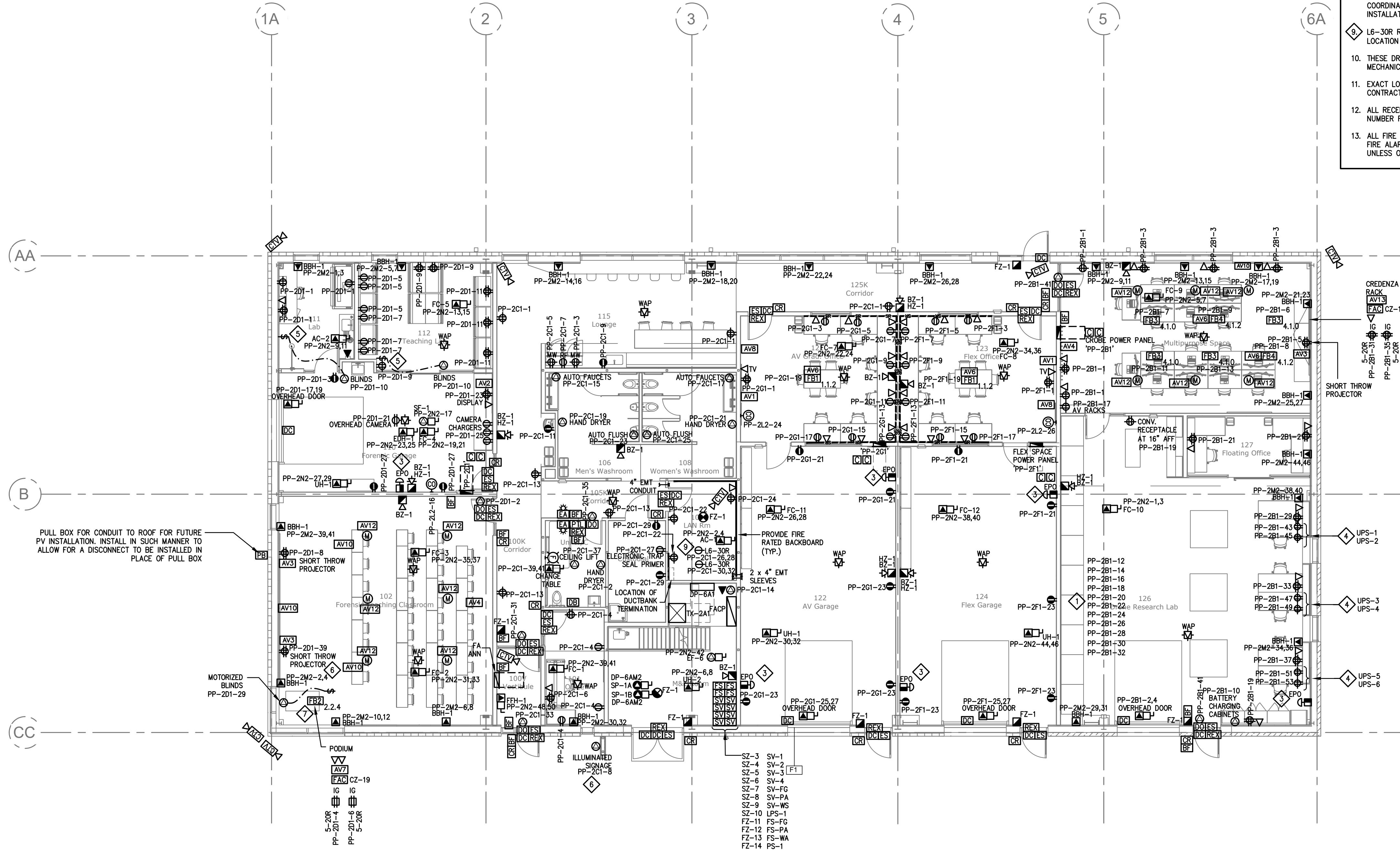
REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS.

COPYRIGHT ©

BSN Architects

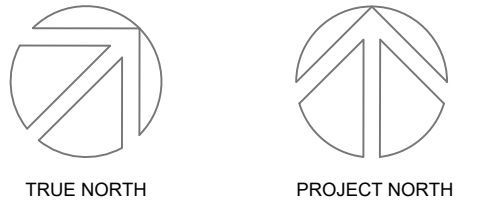
SCALE : 1:100	SHEET NO :
DATE : FEB 2024	
PROJECT NO : 2023-0059	
DRAWN BY : MP	
CHECKED BY : AT	

E201



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 LAMACOID 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
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

DISCLAIMER:
NOT FOR CONSTRUCTION



CLIENT
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
t. 416 364 2100 | HIDI.com



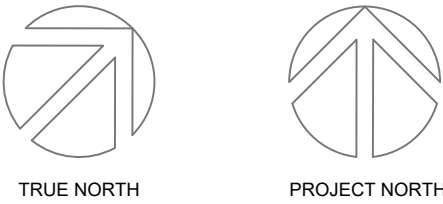
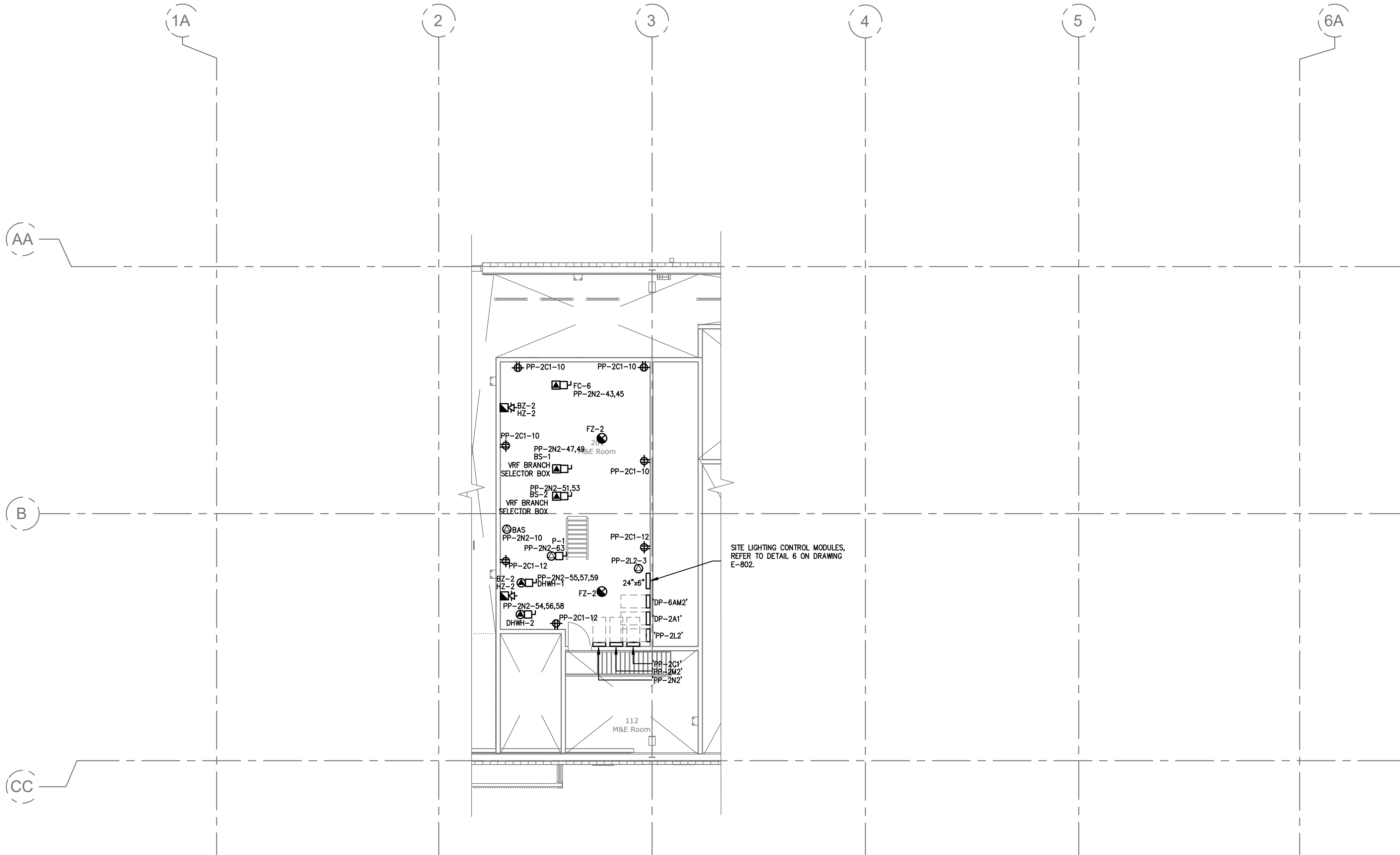
REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS. DO NOT SCALE THIS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

DATE	DATE
1:1000	SHEET NC :
DATE : FEB 2024	
PROJECT NO : 2023-0059	
DRAWN BY : MP	
CHECKED BY : AT	

E301

NOTES

- 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.



No.	ISSUANCE	DATE
1	ISSUED FOR SD	2023-08-04
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

DISCLAIMER:

NOT FOR CONSTRUCTION



CLIENT
UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

TITLE
POWER & SYSTEMS LAYOUT -
MEZZANINE FLOOR

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



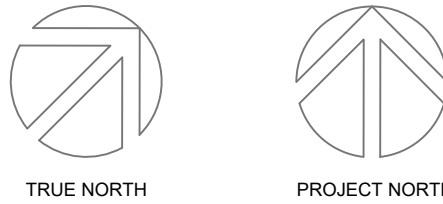
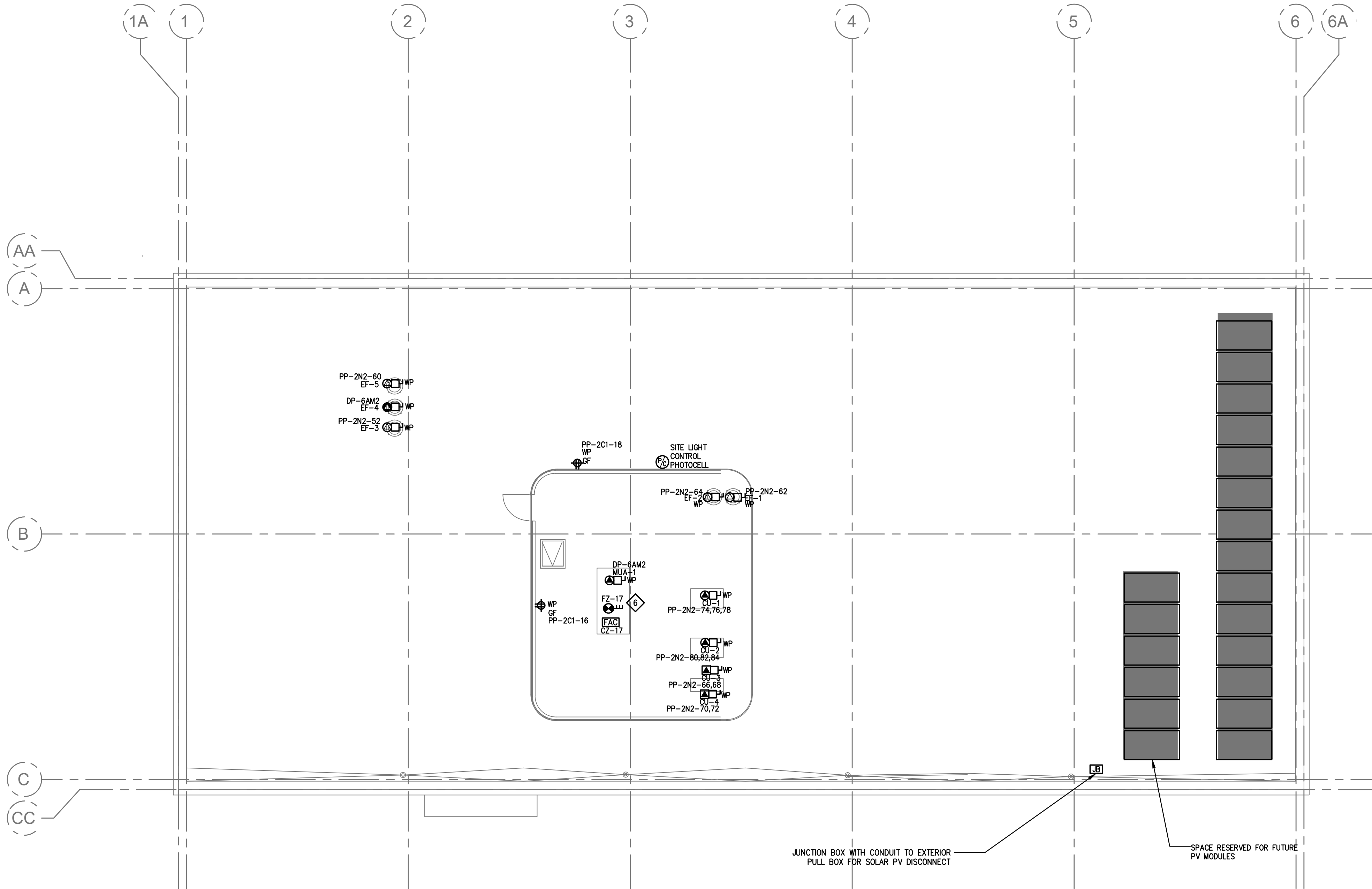
REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS. DO NOT SCALE THIS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

COPYRIGHT © BSN Architects	
SCALE : 1:100	SHEET NO :
DATE : FEB 2024	
PROJECT NO : 2023-0059	
DRAWN BY : MP	
CHECKED BY : AT	

E302

KEY NOTES

1. INSTALL DUCT SMOKE DETECTOR IN STRAIGHT SECTION OF DUCT WORK WHERE THERE IS LAMINAR FLOW.
2. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND DOCUMENTS.
3. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR FINAL DEVICE LOCATIONS. COORDINATE ALL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATIONS.
4. EXACT LOCATION OF MECHANICAL EQUIPMENT TO BE COORDINATED WITH MECHANICAL CONTRACTOR.
5. ALL RECEPTACLES SHALL BE CLEARLY LABELLED WITH PANEL DESIGNATION AND CIRCUIT NUMBER FOLLOWING FINAL INSTALLATION.
6. 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
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

DISCLAIMER:

NOT FOR CONSTRUCTION

CLIENT LOGO



CLIENT

UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT

PRE-ENGINEERED BUILDING

3359 MISSISSAUGA ROAD

TITLE

POWER & SYSTEMS LAYOUT - ROOF

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

SEAL



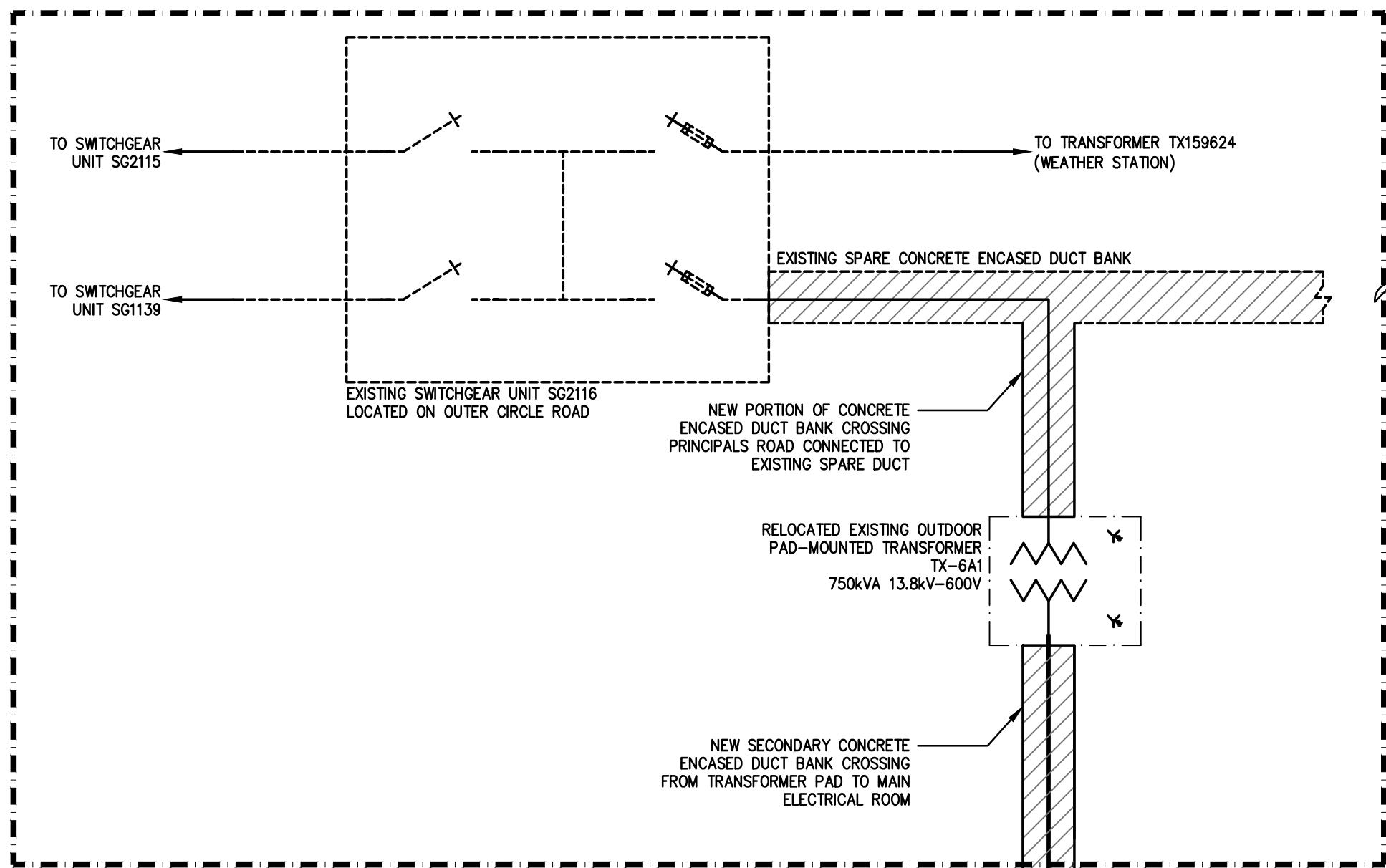
REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS. DO NOT SCALE THIS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

COPYRIGHT © BSN Architects

SCALE : 1:100
DATE : FEB 2024
PROJECT NO : 2023-0059
DRAWN BY : MP
CHECKED BY : AT

SHEET NC :

E303



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

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

- 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.

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

DISCLAIMER:

NOT FOR CONSTRUCTION



CLIENT

UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT

PRE-ENGINEERED BUILDING

3359 MISSISSAUGA ROAD

TITLE

ELECTRICAL SINGLE LINE DIAGRAM

THEHIDIGROUP

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



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.

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

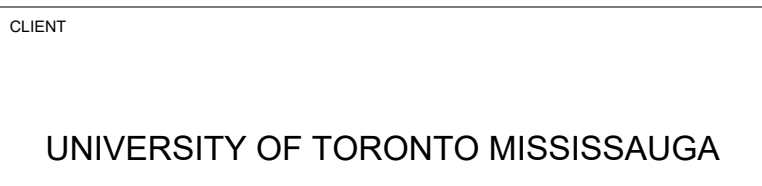
E500

01 DIVISION OF RESPONSIBILITY
E502 SCALE: NTS

02 AV COORDINATION MATRIX
E502 SCALE: NTS

03 SECURITY RESPONSIBILITY MATRIX
E502 SCALE: NTS

DISCLAIMER:
NOT FOR CONSTRUCTION



AV REQUIREMENTS

SEAL

LICENSED PROFESSIONAL ENGINEER

A. TAN

100087772

15-Nov-2024

PROVINCE OF ONTARIO

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.	
COPYRIGHT ©	BSN Architects
SCALE : N.T.S.	SHEET NO :
DATE : FEB 2024	
PROJECT NO : 2023-0059	
DRAWN BY : MP	E502
CHECKED BY : AT	

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



NOT FOR CONSTRUCTION



UNIVERSITY OF
TORONTO
MISSISSAUGA

UNIVERSITY OF TORONTO MISSISSAUGA

PRE-ENGINEERED BUILDING

3359 MISSISSAUGA ROAD

TITL

LIGHTING & FLOOR BOX SCHEDULE



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.

COPYRIGHT © BSN Architect

SCALE : N.T.S.

DATE : FEB 2024

PROJECT NO : 2023-0059

DRAWN BY : MP

CHECKED BY : AT

E702

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-90CIR-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-90CIR-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	9.7W/FT, 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	4.8W/FT, 443LMNS/FT, 3500K, 90CRI LED	0-10V	120V	ARCHITECT TO SELECT FROM STANDARD FINISHES	SURFACE WALL	WASHROOM	A LIGHT: ACL2ST - EACL2ST-4-DLS- 35-90CRI-U-DL-R-x-D OR APPROVED EQUAL	
LS2	4FT/8FT LENGTH VAPOR-TIGHT FEM LED LUMINAIRE	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 LUMINAIRE	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	5W LED	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 - RP EL SERIES	UTM STANDARD

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 #RFBA4R25OG (1) RFBADEC20TR - 20A Receptacle (3) RFBADEC - 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 RFBA10R55OG (1) RFBA10-2G - 2 Gang Adapter Plate (2) RFBADEC20TR - 20A Receptacle (6) RFBADEC - 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 RFBA6R30OG (4) RFBADEC20TR - 20A Receptacle (1) RFBADEC - 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 RFBA10R55OG (2) RFBA10-2G - 2 Gang Adapter Plate (4) RFBADEC20TR - 20A Receptacle (3) RFBADEC - 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.

NTS

[illegible]

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

DISCLAIMER:

NOT FOR CONSTRUCTION

CLIENT LOGO



CLIENT

UNIVERSITY OF TORONTO MISSISSAUGA

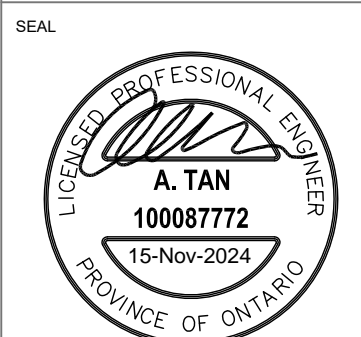
PROJECT

PRE-ENGINEERED BUILDING

3359 MISSISSAUGA ROAD

TITLE

FIRE ALARM SCHEDULE



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

COPYRIGHT © BSN Architects

SCALE : N.T.S.

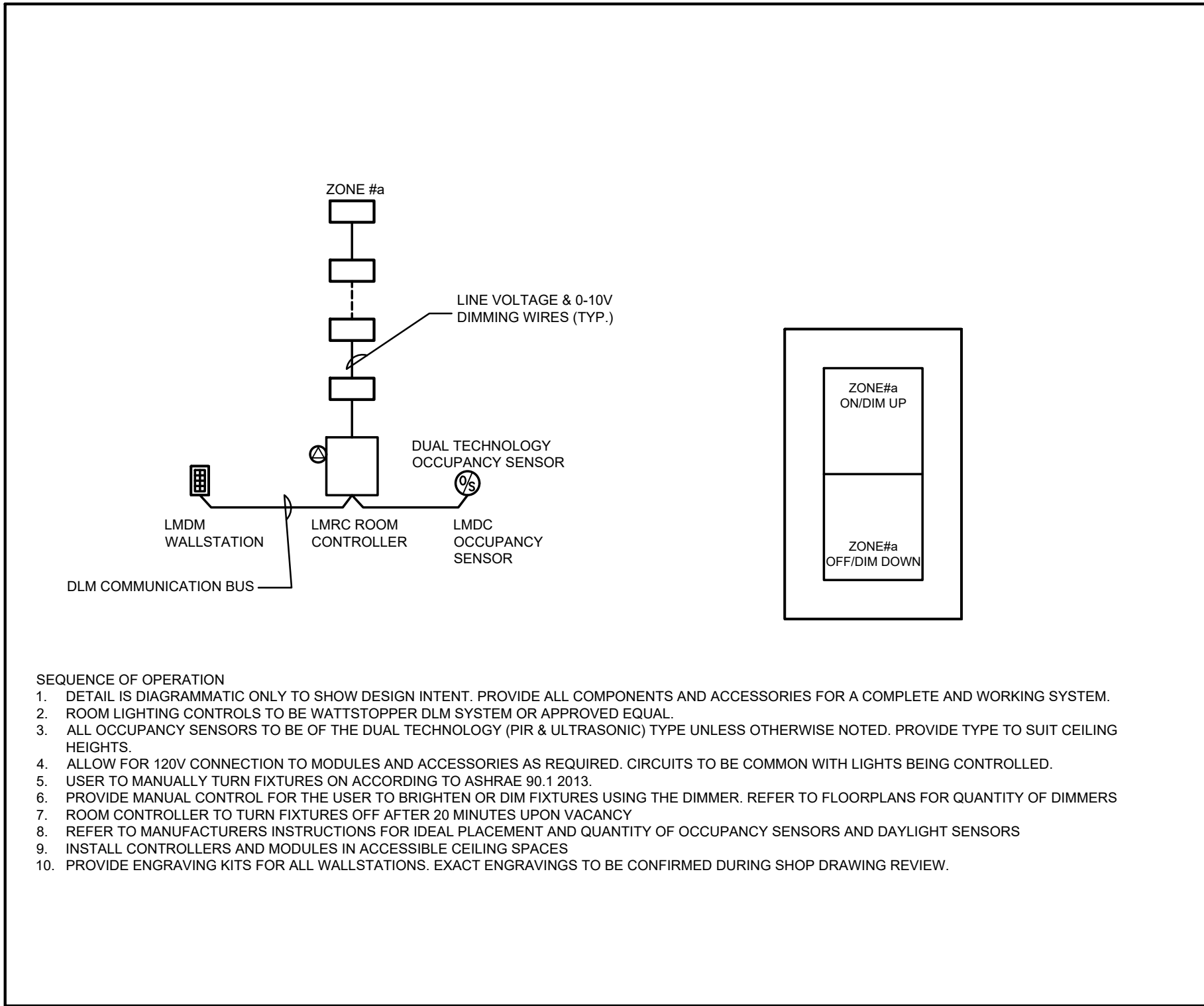
DATE : FEB 2024

PROJECT NO : 2023-00

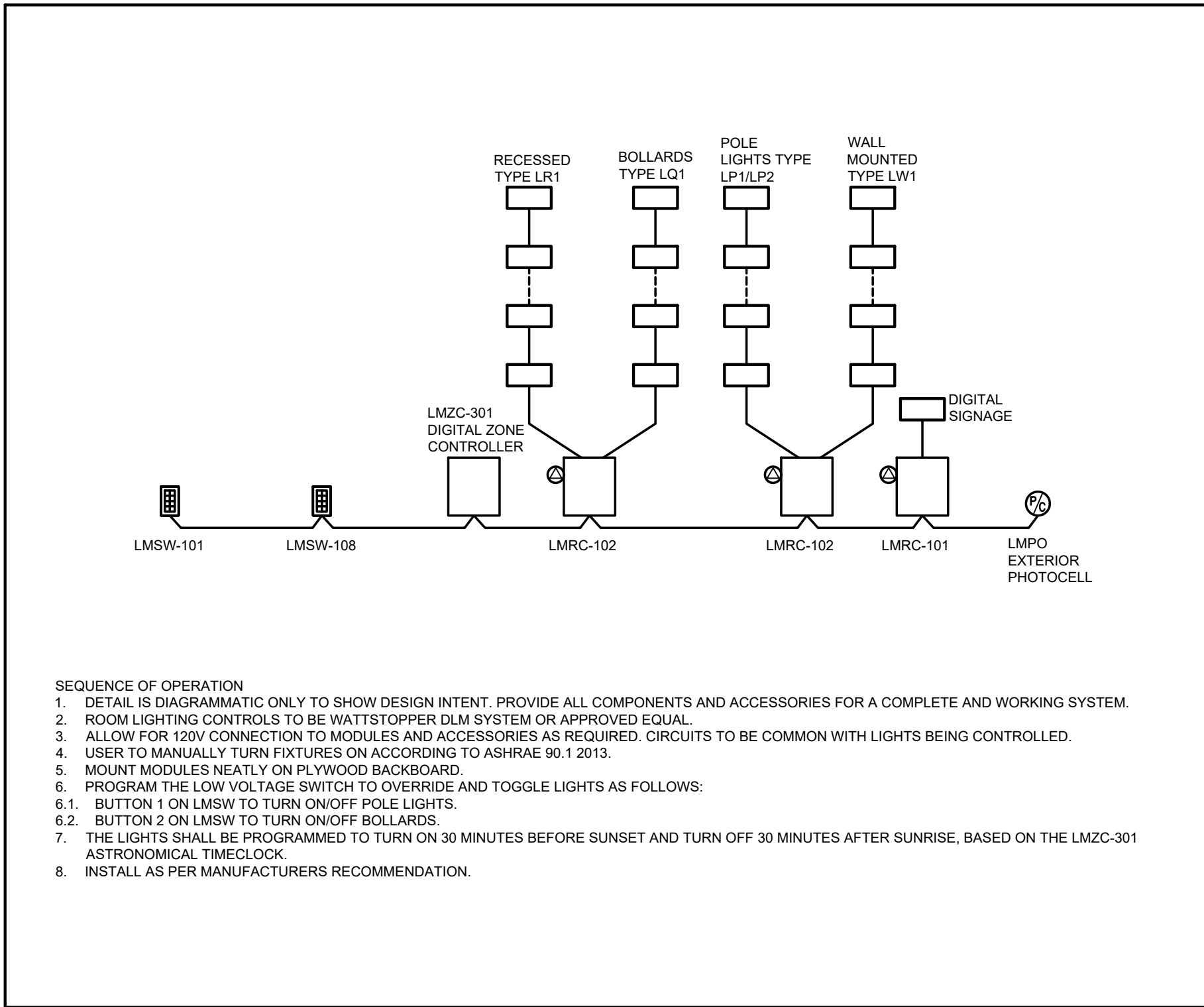
DRAWN BY : MP

SHEET NO :

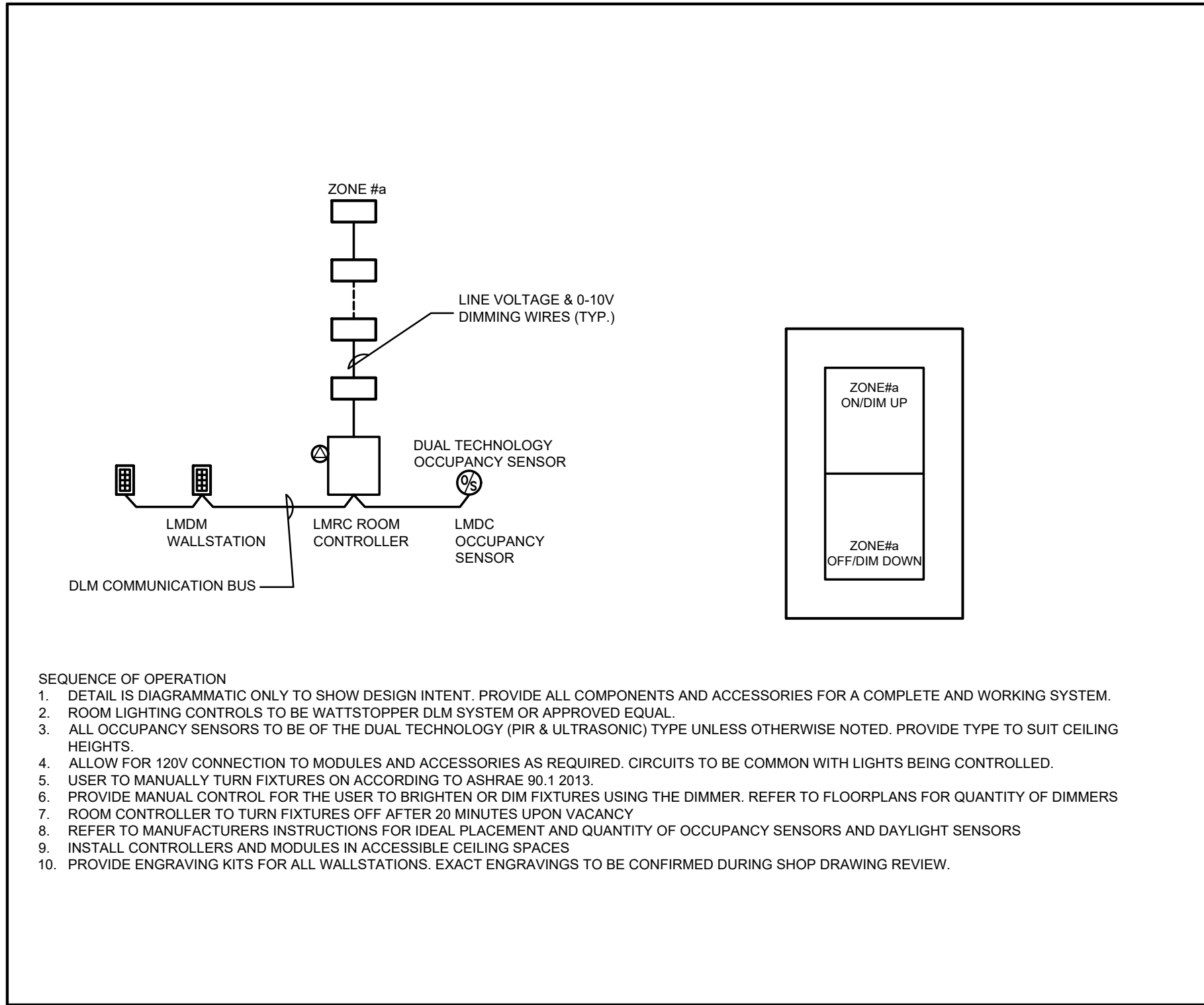
E703



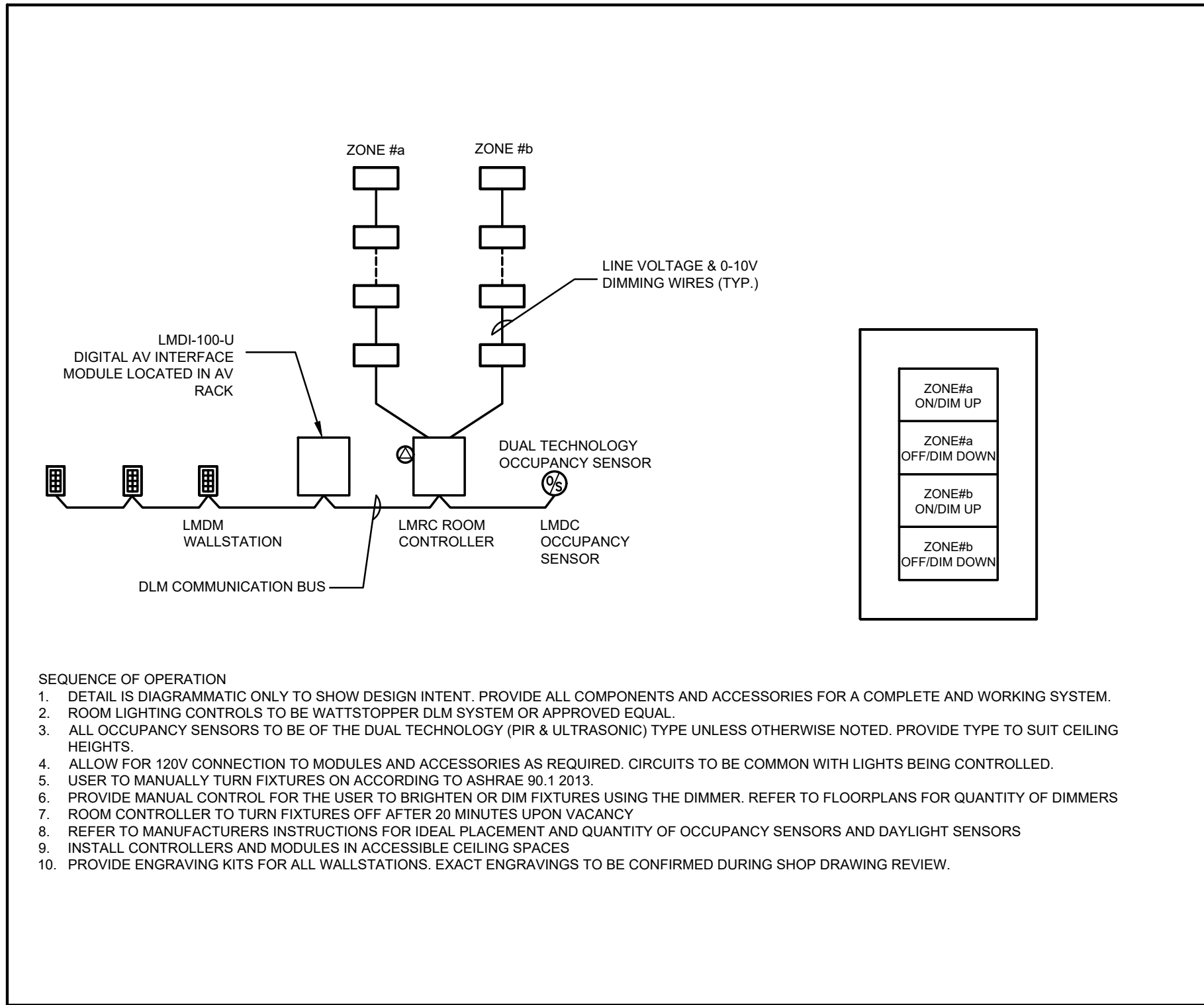
3
E-801
TEACHING LAB & FLOATING OFFICE
NTS



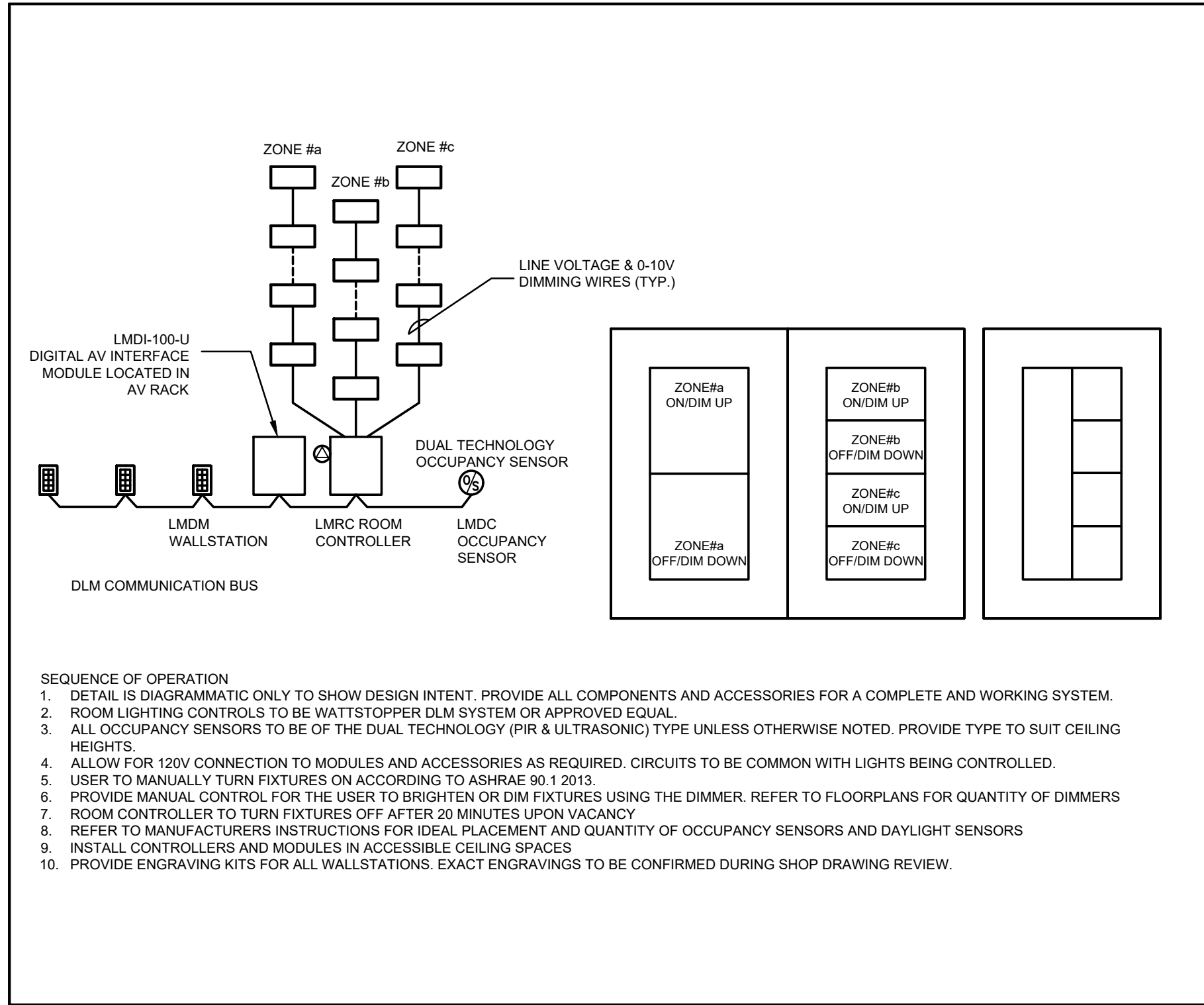
6
E-801
SITE LIGHT CONTROLLER
NTS



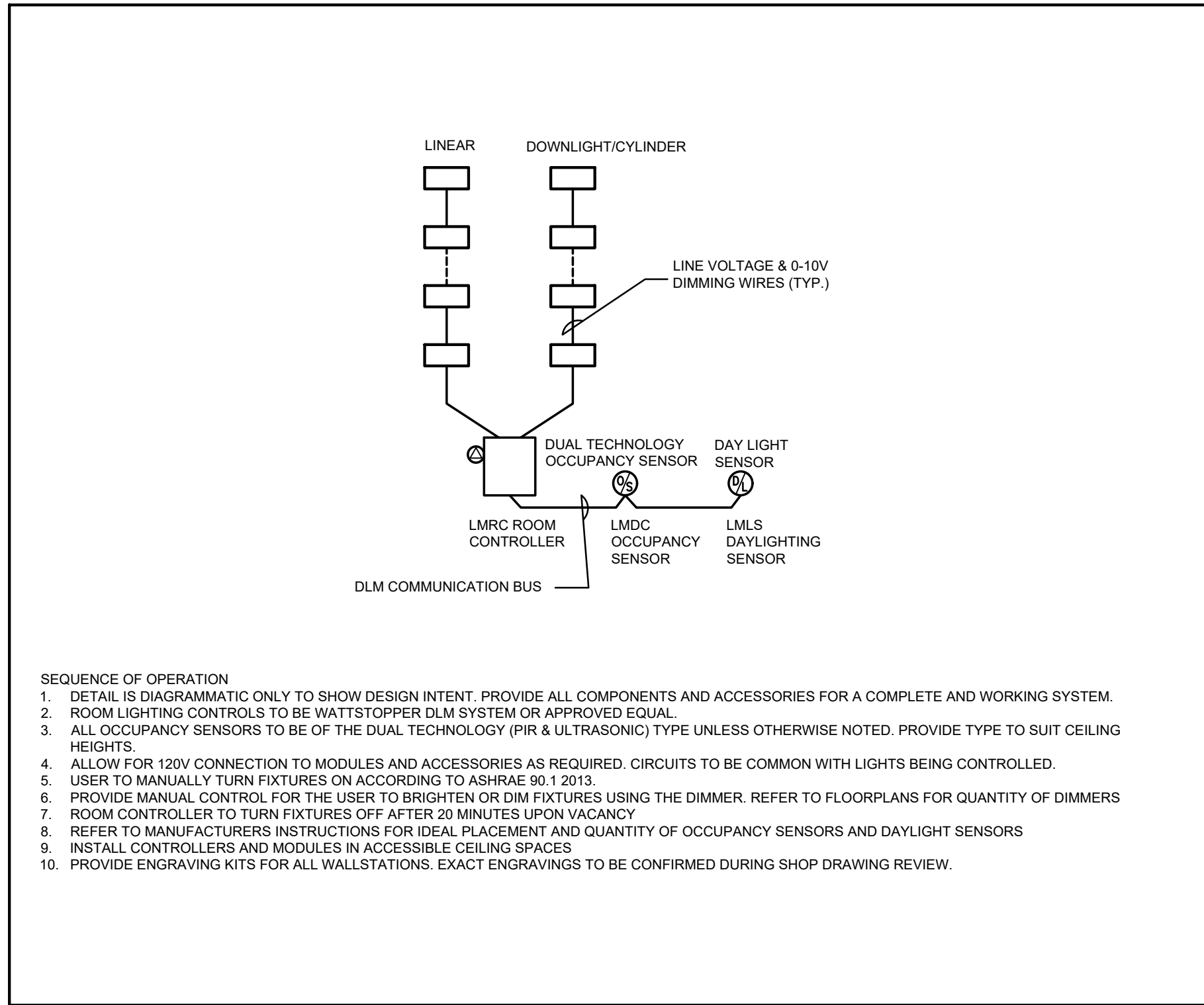
2
E-801
FORENSIC GARAGE
NTS



5
E-801
MULTIPURPOSE SPACE & DRONE CROBE LAB
NTS



1
E-801
FORENSIC TEACHING CLASSROOM
NTS



4
E-801
CORRIDOR, LOUNGE & VESTIBULE
NTS

No.	ISSUANCE	DATE
1	ISSUED FOR ESA	2024-10-21
2	ISSUED FOR 100% CD	2024-11-05
3	ISSUED FOR TENDER	2024-11-15

DISCLAIMER:

NOT FOR CONSTRUCTION



CLIENT

UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT

PRE-ENGINEERED BUILDING

3359 MISSISSAUGA ROAD

TITLE

LIGHTING CONTROL DETAILS

THEHIDIGROUP

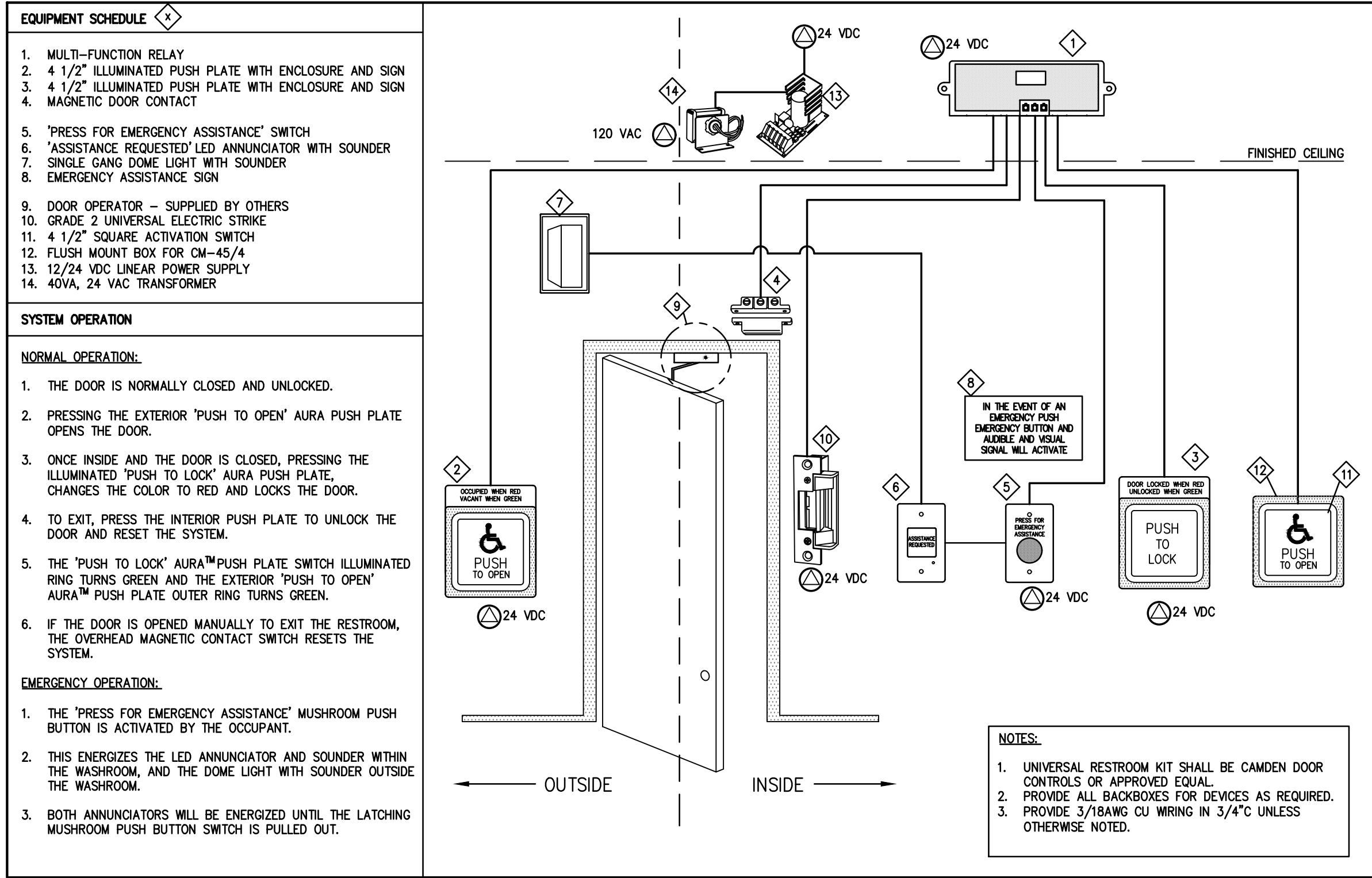
155 Gordon Baker Road, Suite 200
Toronto, ON M2H 3N5 Canada
t. 416 364 2100 | HIDI.com



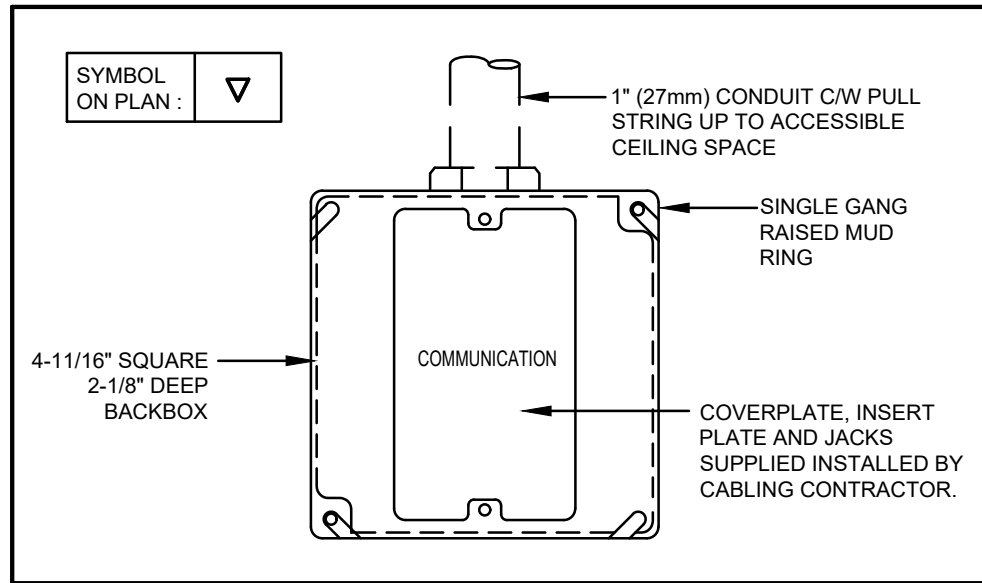
REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS. DO NOT SCALE THIS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

COPYRIGHT ©	BSN Architects
SCALE : N.T.S.	SHEET NC :
DATE : FEB 2024	
PROJECT NO : 2023-0059	
DRAWN BY : MP	
CHECKED BY : AT	

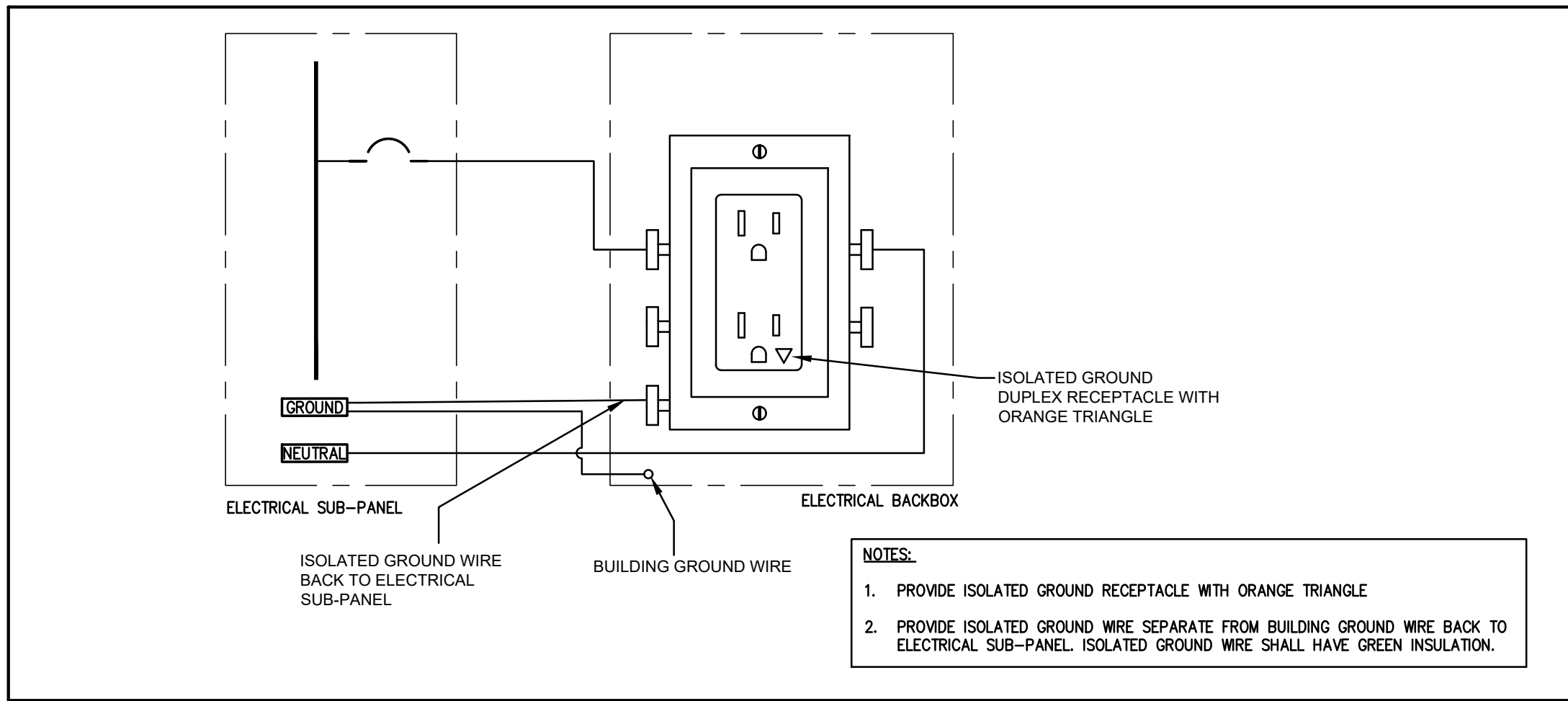
E801



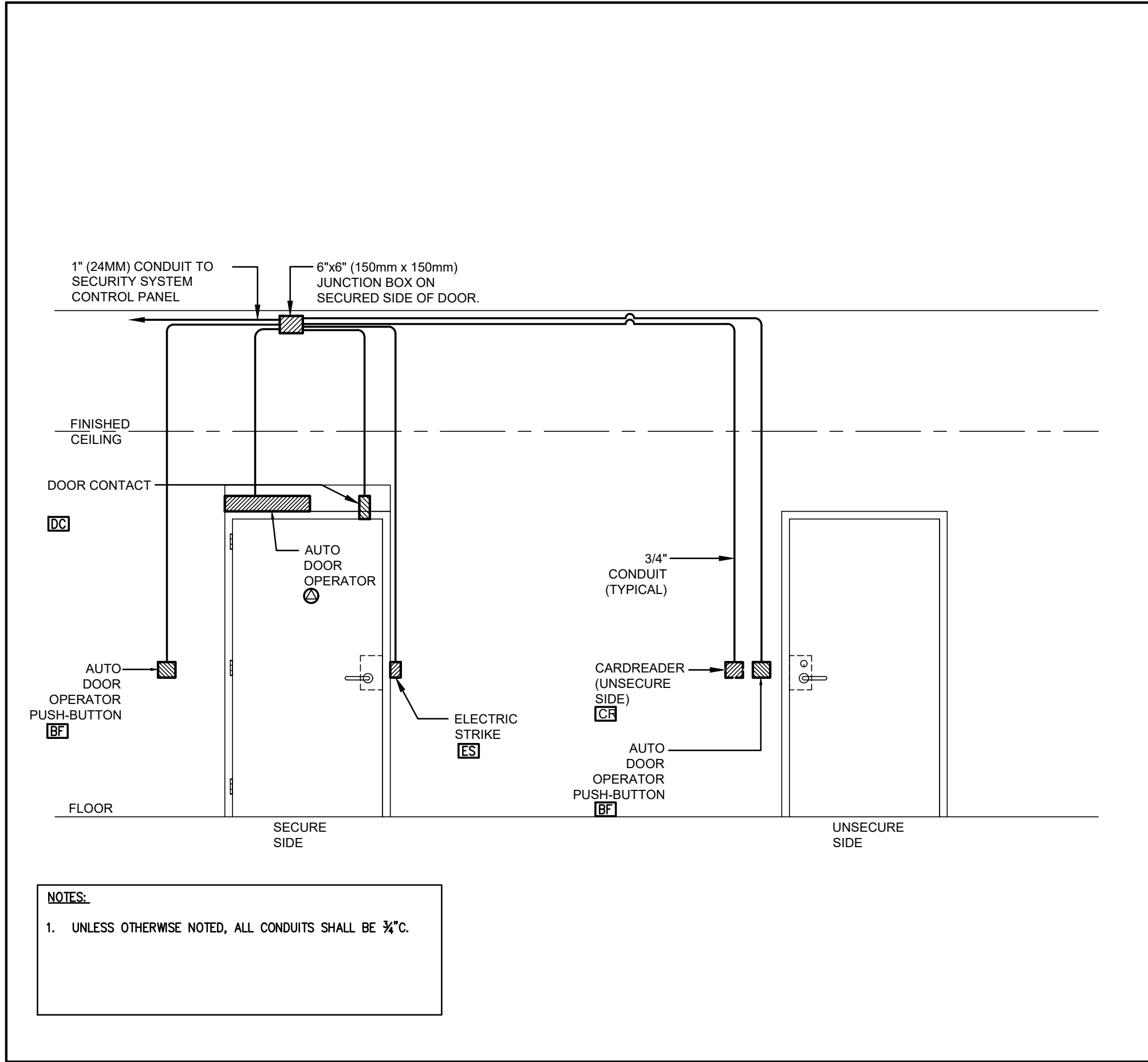
1 UNIVERSAL RESTROOM KIT
E-802 SCALE: NTS



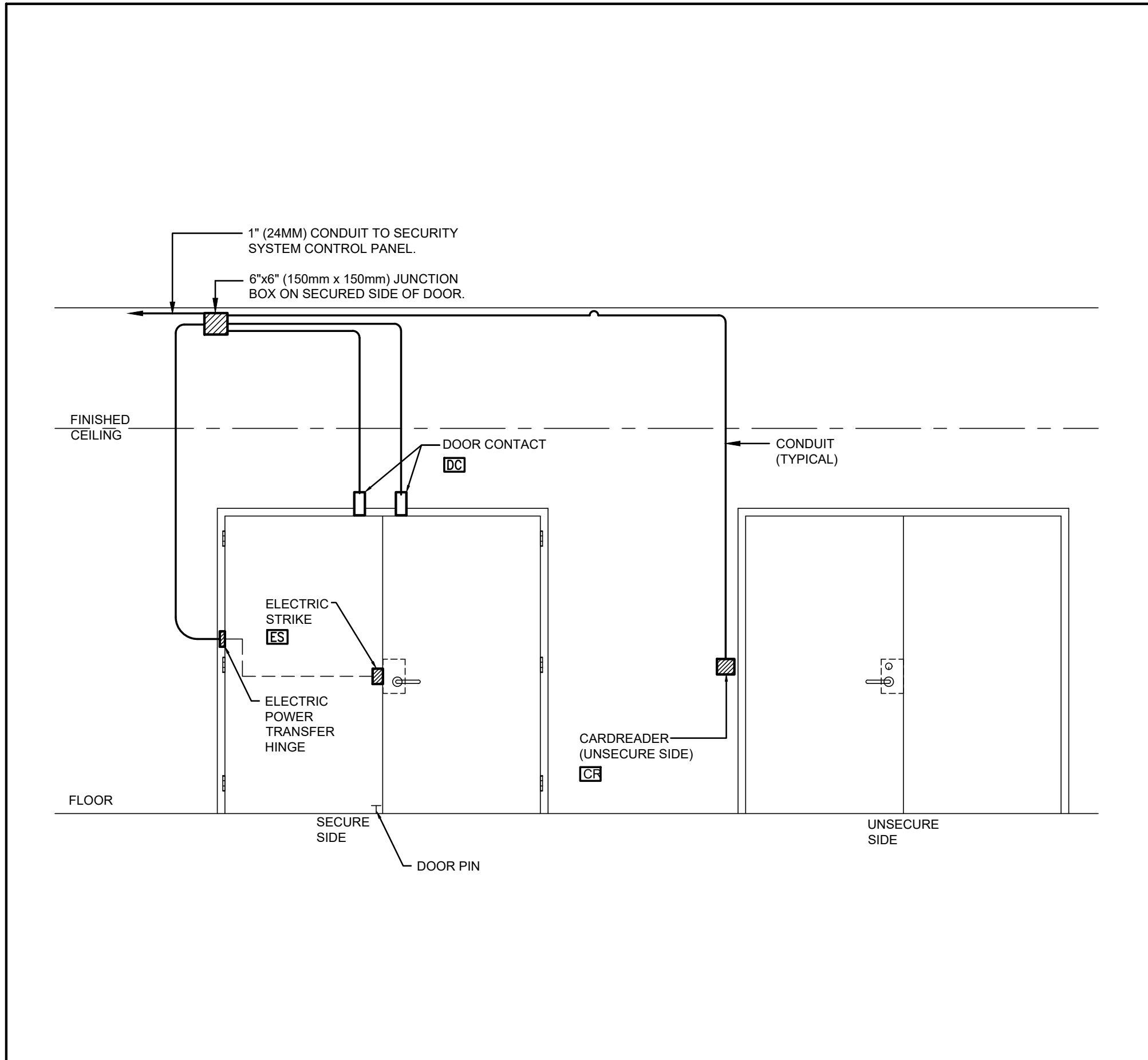
04 SINGLE COMMUNICATION WALL OUTLET
E-802 SCALE: NTS



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
1	ISSUED FOR PERMIT	2024-09-06
2	ISSUED FOR ESA	2024-10-21
3	ISSUED FOR 100% CD	2024-11-05
4	ISSUED FOR TENDER	2024-11-15

DISCLAIMER:

NOT FOR CONSTRUCTION



CLIENT

UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT

PRE-ENGINEERED BUILDING

3359 MISSISSAUGA ROAD

TITLE

ELECTRICAL DETAILS I

THEHIDIGROUP

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



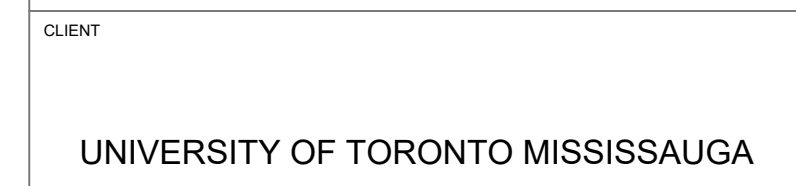
REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS.

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

E801



DISCLAIMER:
NOT FOR CONSTRUCTION



TITLE

ELECTRICAL DETAILS II



COPYRIGHT ©		BSN Architects
SCALE : N.T.S.	<div>SHEET NO :</div> <div>E803</div>	
DATE : FEB 2024		
PROJECT NO : 2023-0059		
DRAWN BY : MP		
CHECKED BY : AT		

E803

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. ▽ = ONE (1) COMMUNICATIONS CABLE IN A SINGLE ADAPTER/FACEPLATE ▽▽ = TWO (2) COMMUNICATIONS CABLES IN A SINGLE ADAPTER/FACEPLATE ▽▽▽ = THREE (3) COMMUNICATIONS CABLES IN A SINGLE ADAPTER/FACEPLATE
▣	FLOOR	
⌘	CEILING	
⌘	FURNITURE	

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'

▽	WALL	
▣	FLOOR	
⌘	CEILING	
⌘	FURNITURE	

TV		
⊙	WALL	COAXIAL CABLE(S) FOR AV APPLICATIONS. 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	

FIBRE LEGEND

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
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

DISCLAIMER:

NOT FOR CONSTRUCTION

CLIENT LOGO

CLIENT

UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT

PRE-ENGINEERED BUILDING

3359 MISSISSAUGA ROAD

TITLE

LEGEND, DRAWING LIST AND NOTES

HIDI

THEHIDIGROUP

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

SEAL

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.

COPYRIGHT © BSN Architects

SCALE : N.T.S.
DATE : FEB 2024
PROJECT NO : 2023-0059
DRAWN BY : SS
CHECKED BY : BC

SHEET NO :

T-001

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

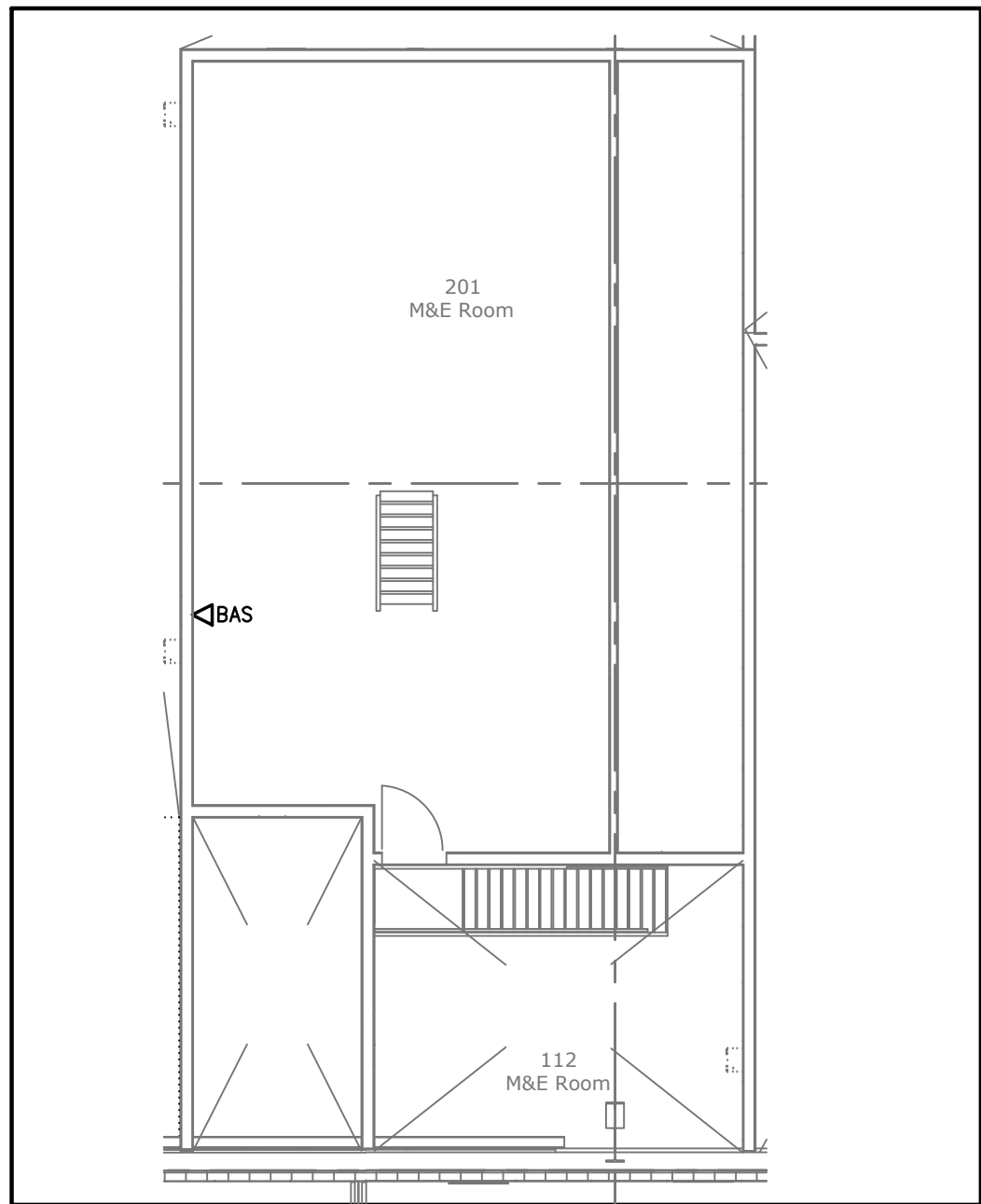
SPECIFICATIONS
27 00 00 GENERAL SPECIFICATIONS AND REQUIREMENTS FOR COMMUNICATIONS
1. GENERAL
a. THIS DOCUMENT SPECIFIES THE USE OF AN CAT6A/FT6 COPPER END TO END STRUCTURED CABLING PLATFORM AS MANUFACTURED AND WARRANTED BY PANDIUT OR BELDEN, NO SUBSTITUTIONS ARE PERMITTED.
b. THIS DOCUMENT SPECIFIES 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&ITS SHALL BE ADHERED TO. IF THERE ARE ANY DISCREPANCIES MADE BY THE CONTRACTOR WILL BE CORRECTED SO AS TO BE IN-LINE WITH THE UTM STANDARDS, AND ANY COSTS INCURRED TO BE PAID FOR BY THAT GIVEN TRADE.
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 CABLING.
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, CEILINGS, 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 ANSI/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 DIAGRAM, DETAILING PHYSICAL PORT LOCATIONS, QUANTITIES AND IDENTIFICATIONS MUST BE PROVIDED AHEAD OF TIME FOR I&ITS 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 CONFIGURATION TIME, HENCE A NETWORK MAP FOR A BUILDING WITH 500 DATA DROPS MUST BE PROVIDED AT LEAST 8 BUSINESS DAYS PRIOR TO COMMISSIOING 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&ITS.
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
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 THE 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 SEPARATELY. EACH SHALL HAVE THEIR OWN DEDICATED BONDING CONDUCTOR TO THE MESH–BN, SBB, PBB OR TEBC.
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 ANSI–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&ITS 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 REQUIRED SEPARATIONS FROM EM SOURCES.
h. TELECOMMUNICATIONS WIRE BASKET TRAY SHALL BE SUPPORTED 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 TIA/EIA–568–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 #6 AWG GROUNDING WIRE OR AS RECOMMENDED BY THE AHI. 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&ITS FOR DIRECTION AS REQUIRED.
2. VELCRO WRAPS
a. COMMUNICATIONS CABLING CONTRACTOR TO USE VELCRO TIES TO TIE BUNDLES OF CABLE, NYLON CABLE TIES WILL NOT BE ACCEPTED.
b. 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 ANSI/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&ITS FOR DIRECTION AS REQUIRED.
27 08 00 COMMISSIOING 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 ANSI/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 MANUFACTURER–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 TRANSCIVER 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 OTDR 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&ITS 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 1/4" THICK, FIRE RATED, 4' X 8' 000 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 FILTER 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&ITS FOR DIRECTION AS REQUIRED.
27 11 26 COMMUNICATIONS RACK MOUNTED POWER PROTECTION AND POWER STRIPS
1. THE CONTRACTOR SHALL PROVIDE UPS AND PDUS
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 EWAL630B 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&ITS 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&ITS FOR ACCESS TO OCC. PART NUMBERS ARE: COI–CS24–AD–PPORE 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&ITS FOR DIRECTION AS REQUIRED.
27 15 13 COMMUNICATIONS COPPER HORIZONTAL CABLING
1. ALL CABLING MUST BE TERMINATED USING ANSI–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&ITS 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 WPO (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 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
15. CONTRACTOR SHALL REFERENCE UTM COMMUNICATION CABLING STANDARDS R3.1 SECTION 27 15 43. CONTRACTOR SHALL ENGAGE UTM I&ITS FOR DIRECTION AS REQUIRED.
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

No.	ISSUANCE	DATE
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

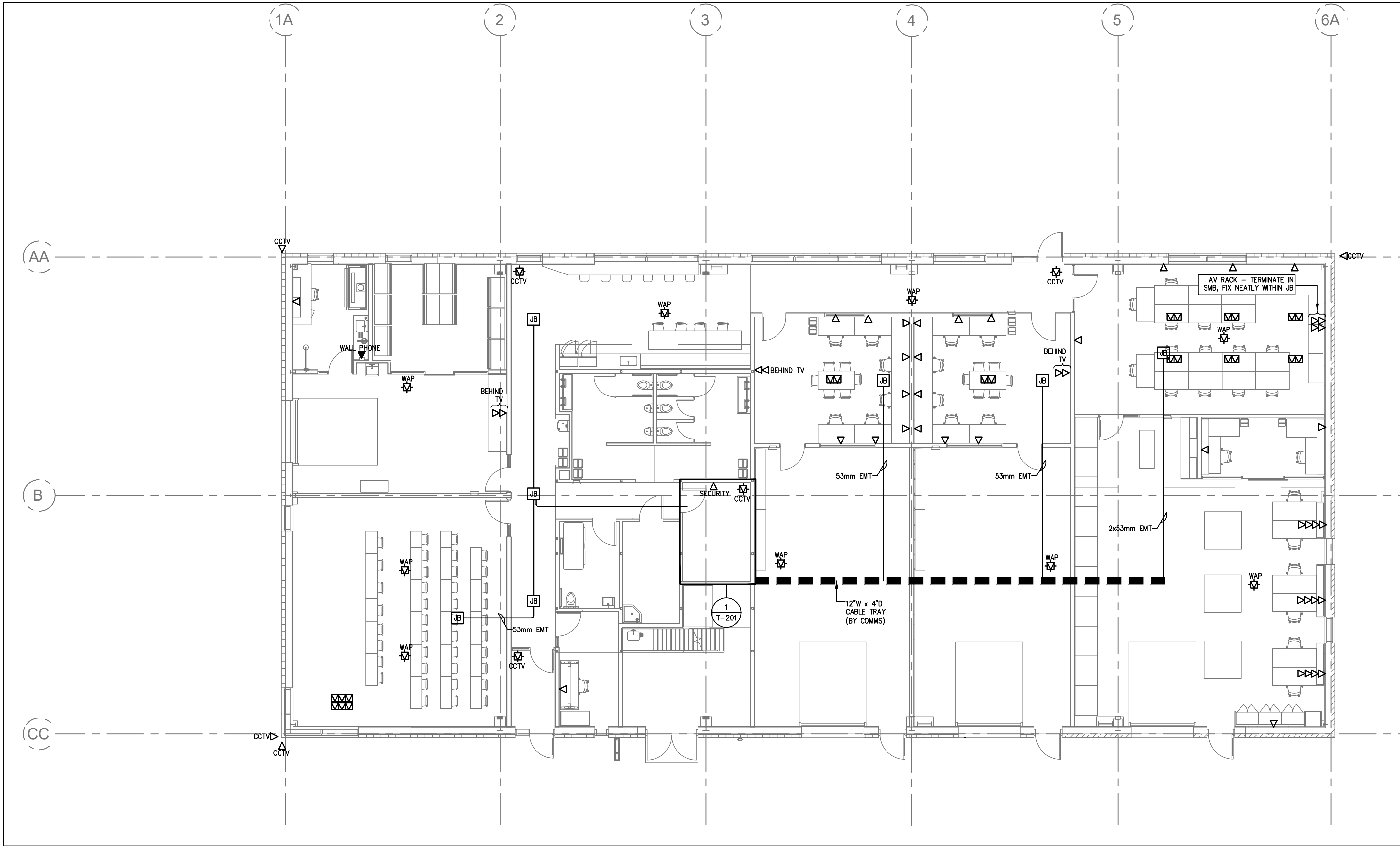
DISCLAIMER:
NOT FOR CONSTRUCTION

CLIENT LOGO
UNIVERSITY OF TORONTO MISSISSAUGA
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD
TITLE
SPECIFICATIONS
SEAL
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.
COPYRIGHT © BSN Architects
SCALE : N.T.S. SHEET NC :
DATE : FEB 2024
PROJECT NO : 2023-0059
DRAWN BY : SS
CHECKED BY : BC

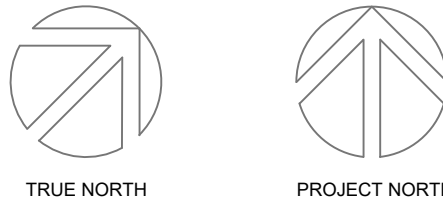
T-002



02 MEZZANINE PART PLAN
T-201 1:100



01 GROUND FLOOR STRUCTURED CABLING LAYOUT
T-201 1:100



No.	ISSUANCE	DATE
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

DISCLAIMER:
NOT FOR CONSTRUCTION

CLIENT LOGO

CLIENT

UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT

PRE-ENGINEERED BUILDING

3359 MISSISSAUGA ROAD

TITLE

GROUND FLOOR AND PARTIAL
MEZZANINE TELECOM LAYOUTS

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

SEAL

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.

COPYRIGHT © BSN Architects

SCALE : 1:100
DATE : FEB 2024
PROJECT NO : 2023-0059
DRAWN BY : SS
CHECKED BY : BC

SHEET NO :

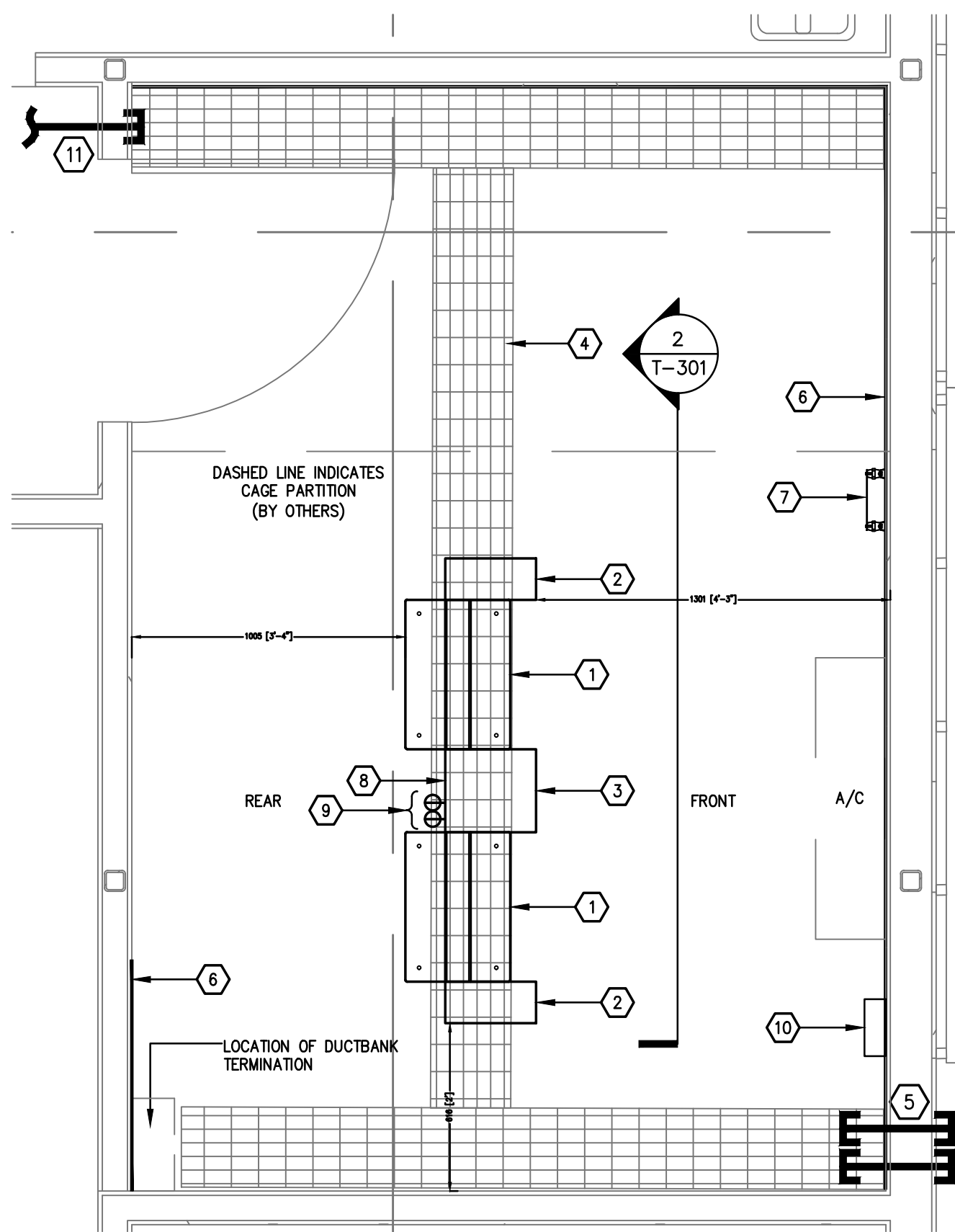
T-201

EQUIPMENT:

- 1 45U 2-POST RACK (BY COMMS)
- 2 6"W VERTICAL CABLE MANAGER (BY COMMS)
- 3 12"W VERTICAL CABLE MANAGER (BY COMMS)
- 4 12"W x 4"D CABLE-TRAY (BY COMMS)
- 5 2 x 4" EMT SLEEVES TO CABLE TRAY (BY DIV. 26)
- 6 3/4" FIRE-RATED PLYWOOD BACKBOARD (BY DIV. 26)
- 7 SECONDARY BONDING BUSBAR (BY DIV. 26)
- 8 TWO (2) PDUs MOUNTED TO REAR OF VERTICAL MANAGER, ONE ON UTILITY, ONE ON UPS (BY COMMS)
- 9 TWO (2) DEDICATED L6-30 RECEPTACLES MOUNTED CLOSE TO FLOOR ON REAR OF VERTICAL CABLE MANAGER. COORDINATE PLACEMENT WITH PDUs (BY DIV. 26)
- 10 BIX MOUNT AND WAFER - CONTRACTOR SHALL SUPPLY/INSTALL 25-PAIR CATEGORY 3 TO AMPHENOL VOICE PATCH PANEL IN RACK.
- 11 4" EMT ZONE CONDUIT TO JB (BY DIV. 26)

NOTES:

1. CONTRACTOR TO SUPPLY AND INSTALL VERTICAL CABLE TRAY TO TRANSITION CABLING TO SLEEVE/CONDUIT LOCATIONS.
2. SEE UTM SPECIFICATIONS FOR ALL METHODS AND MATERIALS.



01 HUB ROOM LAYOUT
T-301 1:20

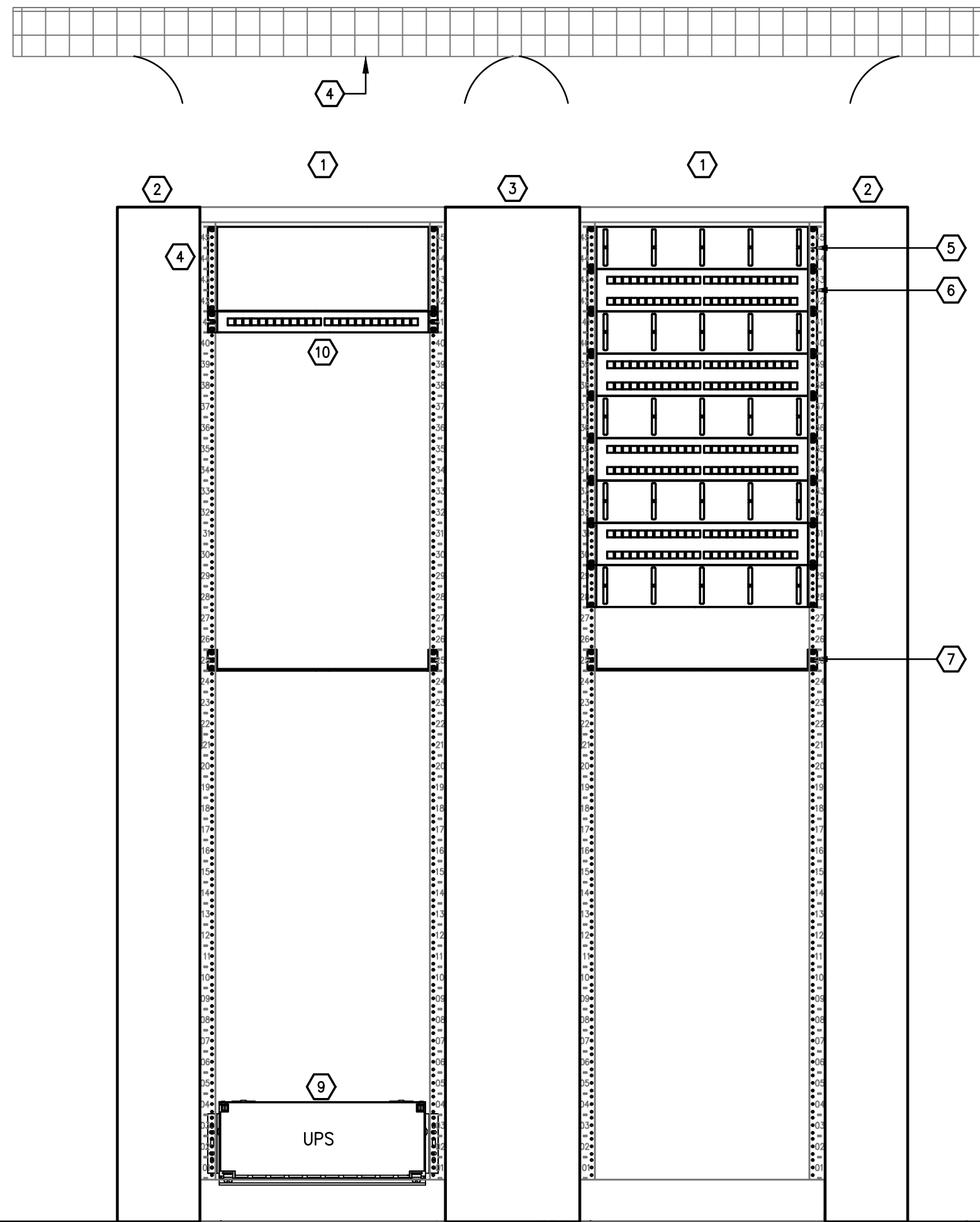
EQUIPMENT LIST:

- 1 45U 2-POST RACK (BY COMMS)
- 2 6" VERTICAL CABLE MANAGER (BY COMMS)
- 3 12" VERTICAL CABLE MANAGER (BY COMMS)
- 4 4U FIBRE ENCLOSURE (BY COMMS)
- 5 2U HORIZONTAL CABLE MANAGER, TYP (BY COMMS)
- 6 2U 48-PORT PATCH PANEL, TYP (BY COMMS)
- 7 1U EQUIPMENT SHELF (BY COMMS)
- 8 12"W CABLE-TRAY C/W WATERFALLS, TYP (BY COMMS)
- 9 UPS (BY COMMS)
- 10 VOICE PATCH PANEL (BY COMMS)

NOTES:

1. RACK ELEVATION IS NOT FINAL. COORDINATE FINAL REQUIREMENTS WITH UTM I&ITS RACK DIAGRAM.
2. SEE UTM SPECIFICATIONS FOR ALL METHODS AND MATERIALS.

INTER-BUILDING FIBRE BACKBONE MATRIX. CONTRACTOR SHALL SUPPLY AND INSTALL THE FOLLOWING.		
FROM	TO	QTY. OS2 INDOOR/OUTDOOR OFNR FIBRE
LAN RM [120]	OCC#2	1 x 48-STRAND



2 HUB ROOM ELEVATION
T-301 1:10



TRUE NORTH



PROJECT NORTH

No.	ISSUANCE	DATE
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

DISCLAIMER:

NOT FOR CONSTRUCTION

CLIENT LOGO

CLIENT

UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT

PRE-ENGINEERED BUILDING

3359 MISSISSAUGA ROAD

TITLE

HUB ROOM LAYOUT AND ELEVATION



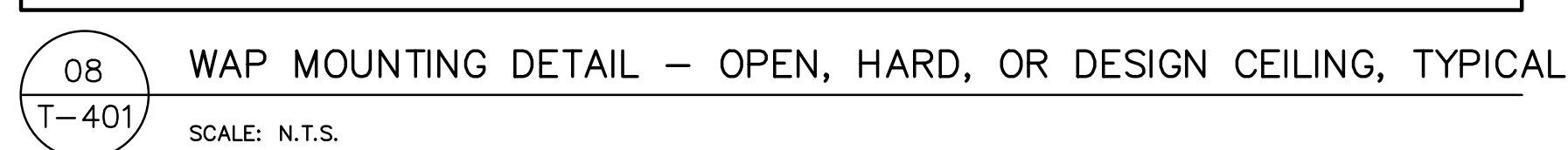
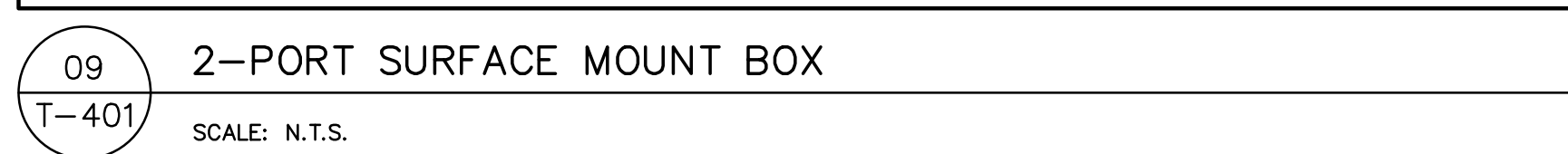
155 Gordon Baker Road, Suite 200
Toronto, ON M2H 3N5 Canada
t. 416 364 2100 | HIDI.com

SEAL

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.

COPYRIGHT © BSN Architects	
SCALE : AS NOTED	SHEET NO :
DATE : FEB 2024	
PROJECT NO : 2023-0059	
DRAWN BY : SS	
CHECKED BY : BC	

T-301



DISCLAIMER:
NOT FOR CONSTRUCTION

A blank sheet of white graph paper with a light gray grid. The grid consists of small squares formed by thin gray lines. A thicker vertical line runs down the left side, creating a margin. A horizontal line crosses the page near the top, creating a header area. The rest of the page is filled with the standard grid pattern.

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.

COPYRIGHT ©		BSN Architects
SCALE : N.T.S.	SHEET NO :	T-401
DATE : FEB 2024		
PROJECT NO : 2023-0059		
DRAWN BY : SS		
CHECKED BY : BC		

T-401

PRE-ENGINEERED BUILDING UTM

3359 MISSISSAUGA RD
MISSISSAUGA, ON L5L 1C6

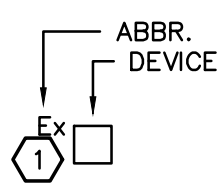
DRAWING INDEX

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

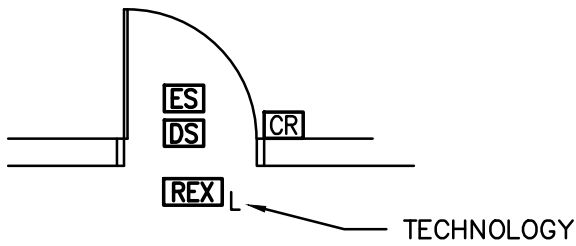


ABBR. DEVICE
AFF = ABOVE FINISHED FLOOR
AFG = ABOVE FINISHED GRADE
CLG = CEILING
EX = EXISTING TO REMAIN
NIC = NOT IN CONTRACT
PB = PULL BOX
R = EXISTING TO DEMO (REMOVE)
RL = EXISTING TO RELOCATE
RP = RELOCATED POSITION
TEMP = TEMPORARY
TYP = TYPICAL
UPS = UNINTERRUPTIBLE POWER SUPPLY
UON = UNLESS OTHERWISE 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)						

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 = WIRED GUEST ELEVATOR CARD READER R = WIRED GUEST REMOTE CARD READER C/W EXTERNAL HARDWARE
[KP] T	KEYPAD O = OVERRIDE OR DISARM I = INTRUSION SYSTEM KEYPAD
[BO] 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

BUILDING SECURITY SYSTEM (BSS) LEGEND

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	TRANSCIVER/COMMUNICATION DEVICE C = WIRELESS CARD READER V = WIRELESS VEHICLE FOB READER L = WIRELESS LOCK SET D = WIRELESS DURESS BUTTON G = WIRELESS GUESTROOM CARD READER W = WIRED DOOR GATEWAY
[NET] T	NETWORK SWITCH NO TAG = EDGE SWITCH C = CORE SWITCH
[FO] T	FIBER OPTIC TRANSCIVER V = VIDEO D = DATA TX = TRANSMITTER RX = RECEIVER
[RF] T	RF VIDEO/DATA TRANSCIVER

SENSORS & INPUT DEVICES

[DS] T	DOOR POSITION SWITCH NO TAG = STANDARD MAGNETIC L = 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
[]	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
[WKS] 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
[NCO] 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 = HANDBAG 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)
[]	20mm FIRE RATED PLYWOOD
[BF] [ADO] [BF]	AUTOMATIC DOOR OPERATOR WITH BARRIER-FREE PUSH BUTTONS (BY OTHERS)

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

DISCLAIMER:

NOT FOR CONSTRUCTION

CLIENT LOGO

CLIENT

UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT

PRE-ENGINEERED BUILDING

3359 MISSISSAUGA ROAD

TITLE

LEGEND, DRAWING LIST AND NOTES

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

SEAL

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.

SCALE : N.T.S.	SHEET NC :
DATE : FEB 2024	
PROJECT NO : 2023-0059	
DRAWN BY : SS	
CHECKED BY : DR	

SD-001

SPECIFICATIONS

1. SUPPLY AND INSTALL ALL MATERIALS, EQUIPMENT, PROGRAMMING, TESTING, AND COMMISSIONING NECESSARY TO PROVIDE A TURN-KEY BUILDING SECURITY SYSTEM (BSS) SOLUTION, INCLUDING ALL SYSTEMS, EQUIPMENT, AND FUNCTIONALITY DESCRIBED ON THESE DOCUMENTS.
2. PROVIDE ALL NECESSARY PERMITS AND OBTAIN ALL NECESSARY PERMITS FROM THE CITY OF CHICAGO TO ENSURE ALL INSTALLATIONS ARE COMPLIANT WITH BUILDING CODES. INCLUDE ALL NECESSARY FEES AND LABOR FOR PERMITS AND INSPECTIONS REQUIRED WITH AUTHORITIES HAVING JURISDICTION (A&H).
3. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND INDUSTRY BEST PRACTICES.
4. PROVIDE ALL NECESSARY O&M SERVICES, INCLUDING ALL NECESSARY O&M SERVICES ISSUED UNDER THESE AGREEMENTS.
5. ENSURE ALL EQUIPMENT IS GUARANTEED AND BONDED TO THE PROVIDED GROUNDING SYSTEM.
6. PROVIDE THE BSS WITH TRAINING FOR THE BSS OPERATOR. PROVIDE TWO (2) TRAINING SESSIONS OF FOUR (4) HOURS EACH. INCLUDE SYSTEM ADMINISTRATION, CONFIGURATION, OPERATOR, AND SYSTEM MAINTENANCE TRAINING. SUBMIT TRNG AGG AGREEMENT TO OWNER AND CONSULTANT TWO (2) WEEKS PRIOR TO TRAINING DATE FOR APPROVAL AND SCHEDULING AS FOLLOWS.
7. PROVIDE WARRANTY TO ALL BSS COMPONENTS PROVIDED. WARRANTY SHALL BE EFFECTIVE FOR ONE (1) YEAR PARTIAL SUBSTITUTIONAL COMPLETION DATE.
8. MAINTENANCE DURING THE WARRANTY PERIOD SHALL BE INCLUDED IN THE BSS CONTRACT.
9. COORDINATE ALL INSTALLATIONS WITH OWNER, ARCHITECT, AND CONSULTANT TO ENSURE AND MAINTAIN INTEGRITY AND CONSTRUCTION OF SECURE DOORS, WALLS, AND CEILING.
10. PROVIDE LABELLING FOR ALL ICIPs, RFFs, OTHER PANELS, ENCLOSURES AND CABLING, INDICATED ON THE RECORD DOCUMENTATION.
11. COMPLETE A COMPREHENSIVE COMMISSIONING PROCESS WITH THE OWNER AND CONSULTANT TO ENSURE EACH SYSTEM PERFORMS TO THE FUNCTIONALITY AS SPECIFIED IN THESE AGREEMENTS.
12. PROVIDE AS-BUILT DOCUMENTATION, INCLUDING DRAWINGS, OPERATOR, AND MAINTENANCE MANUALS FOR ALL BSS COMPONENTS.

1. PACS ARE EXISTING GENETEC, LOCATED ON THE MAIN CAMPUS.
2. PACS MAY BE PROVIDED IN A SINGLE BOX SOLUTION IN CONJUNCTION WITH THE VMS FOR THIS PROJECT.
3. ACCESS CONTROL, PANEL EQUIPMENT SHALL BE MERCURY AUTHENTICATED HARDWARE, NO ACCEPTED ALTERNATES.
4. PACS SHALL BE CAPABLE OF:
 - 4.1. SUPPORTING MULTIPLE CREDENTIAL FORMATS (MINIMUM OF 26-BIT PROX, IC-ASS, AND MIFARE FORMATS).
 - 4.2. INTEGRATING WITH ELEMETER FOR FLOOR SELECTIVE CONTROL.
 - 4.3. LOGGING ALL SYSTEM EVENTS AND ACTIONS TO A DATABASE, WITH A MINIMUM OF ONE HUNDRED THOUSAND (100,000) RECORDS TO BE RETAINED.
5. SECURITY CONTRACTOR SHALL:
 - 5.1. SUPPLY ALL NECESSARY GENETEC LICENSE.
 - 5.2. SUPPLY ALL ASSOCIATED LABOR, EQUIPMENT, AND PERIPHERALS NECESSARY FOR THE INTENDED FUNCTIONALITY.
 - 5.3. SUPPLY ALL PACS EQUIPMENT WITH SUFFICIENT BATTERY BACKUP FOR EIGHT (8) CONTINUOUS HOURS OF OPERATION ON FAILURE OF MAINS POWER.
 - 5.4. SUPPLY ALL PACS POWER SUPPLIES, CONTROL PANELS, AND BATTERY ENCLOSURES WITH TAMPER SWITCHES FOR DETECTION. ENCLOSURES COMMON TO A SINGLE LOCATION MAY ALL SHARE ONE (1) COMMON ALARM, CONNECTED IN SERIES.
 - 5.5. INSTALL ALL INPUT DEVICES WITH END OF LINE (EOL) RESISTORS FOR CIRCUIT SUPERVISION. EOL RESISTORS SHALL BE INSTALLED AT THE FIELD DEVICE, EOL RESISTORS VALIDATED AT THE CONTROLLER OR PANEL LOCATION SHALL NOT BE PERMITTED.
 - 5.6. COMPLY WITH THE COMMUNICATIONS CONSULTANT'S REQUIREMENTS FOR DEMONSTRATING THE FULL FUNCTION OF EACH PACS CARD AND DEVICE, INCLUDING INVALID/INVALID CARD READ, VALID/INVALID BIOMETRIC READ, DOOR FORCED AND OPEN ALARMS, ETC.

- 1.6. VMS IS A EXISTING GENETEC SOLUTION, LOCATED ON CAMPUS.
- 1.7. COORDINATE, FOCUS AND ADJUST FIELD OF VIEW (FOV) FOR EACH CAMERA WITH OWNER AND CONSULTANT

1. CAMERAS FOR THE VMS SHALL BE AXIS COMMUNICATIONS
2. EXTERIOR CAMERAS
 - 2.1. SHALL BE AXIS P3265-LVE
3. INTERIOR CAMERAS
 - 2.1. SHALL BE AXIS P3265-LVE

1. CARD READERS
 - 1.1. CARD READERS SUPPLIED SHALL BE CAPABLE OF READING MULTIPLE CREDENTIAL FORMATS AND TECHNOLOGIES.
 - 1.2. HID MULTICLASS OR EQUIVALENT.
2. REQUEST TO EXIT MOTION DETECTOR
 - 2.1. REQUEST TO EXIT MOTION DETECTOR SHALL BE PROGRAMMED ONLY TO SHUNT DOOR CONTACT ALARM, AND SHALL NOT RELEASE DOOR LOCK.
 - 2.2. KANTECH T-REXX-XL, BOSCH DS1601, HONEYWELL IS320 OR EQUIVALENT.
3. MONITORING CONTACTS
 - 3.1. DOORS
 - 3.1.1. SHALL BE RECESS MOUNTED, EITHER $\frac{3}{4}$ " OR 1" IN DIAMETER.
 - 3.1.2. GEINTELLOGIX 1078/1078 SERIES OR EQUIVALENT.
 - 3.2. OVERHEAD DOORS
 - 3.2.1. SHALL BE FIXED TO THEIR MOUNTING LOCATIONS USING APPROPRIATE HARDWARE.
 - 3.2.2. GEINTELLOGIX 2200 SERIES OR EQUIVALENT.
4. TAMPER SWITCHES
 - 4.1. SHALL BE FIXED TO THE ENCLOSURE USING APPROPRIATE HARDWARE.
 - 4.2. ADEMO 955, POTTER SIGNAL PSW-22, OR EQUIVALENT.
5. AUTOMATIC OPERATOR SEQUENCER
 - 5.1. SHALL BE INSTALLED AT ACCESS CONTROL DOORS REQUIRING AUTOMATIC OPERATORS TO MEET THE SEQUENCE OF OPERATIONS NOTED IN THE INTEGRATION SECTION.
 - 5.2. CAMDEN CONTROLS CX-22 OR EQUIVALENT.

1. SUPPLY ALL DOOR HARDWARE AT PACS DOORS, INCLUDING BUT NOT LIMITED TO TRANSFER HINGES, DOOR CONTACTS.
2. PROVIDE ALL LOCKSMITH SERVICES NECESSARY FOR CLEAN AND COMPLETE INSTALLATION OF ALL DOOR HARDWARE.
3. SECURITY CONTRACTOR SHALL:
 - 3.1. SUPPLY AND INSTALL ALL LOCKS AND LOCK POWER SUPPLIES TO PROVIDE POWER.
 - 3.2. SUPPLY ALL LOCK POWER SUPPLIES WITH SUFFICIENT BATTERY BACKUP FOR EIGHT (8) CONTINUOUS HOURS OF OPERATION UPON FAILURE OF MAINS POWER.

1. CAT6 NETWORK INFRASTRUCTURE SUPPORTING ALL BSS EQUIPMENT SHALL BE INSTALLED BY DIVISION 27.

[illegible]

NOT FOR CONSTRUCTION

CUEN

PROJECT

3359 MISSISSAUGA ROAD

TITL

SPECIFICATIONS



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.

SCALE : N.T.S.	SHEET NO : SD
DATE : FEB 2024	
PROJECT NO : 2023-0059	
DRAWN BY : SS	
CHECKED BY : DR	

SD-002



DISCLAIMER:
NOT FOR CONSTRUCTION

SCALE : 1:100	SHEET NO : SD-201
DATE : FEB 2024	
PROJECT NO : 2023-0059	
DRAWN BY : SS	
CHECKED BY : DR	

SD-201

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

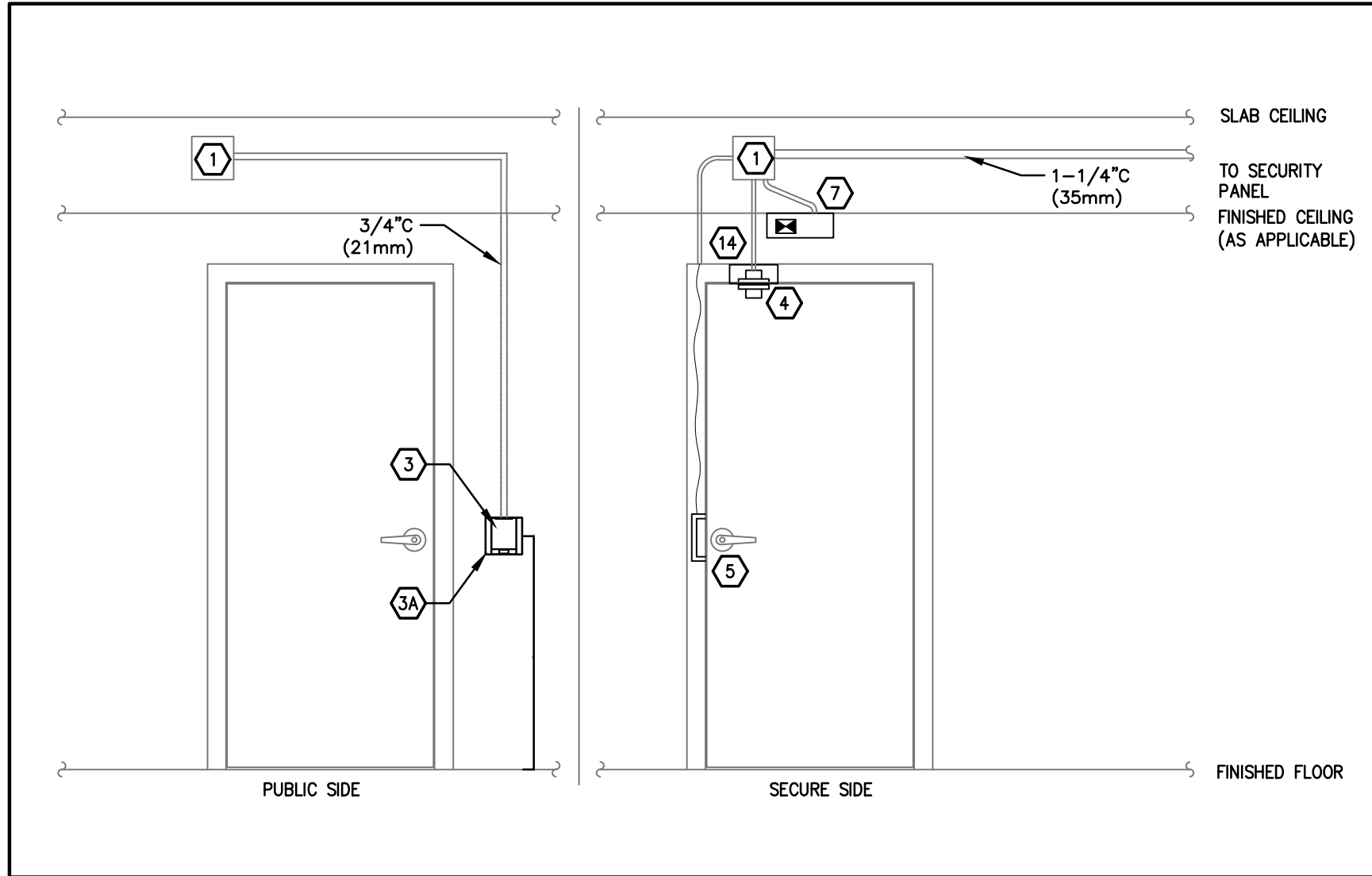
26 WIRED LOCK GATEWAY

27 GUESTROOM MANAGEMENT SYSTEM CONTROLLER BY GUESTROOM MANAGEMENT
- LINE TYPES LEGEND

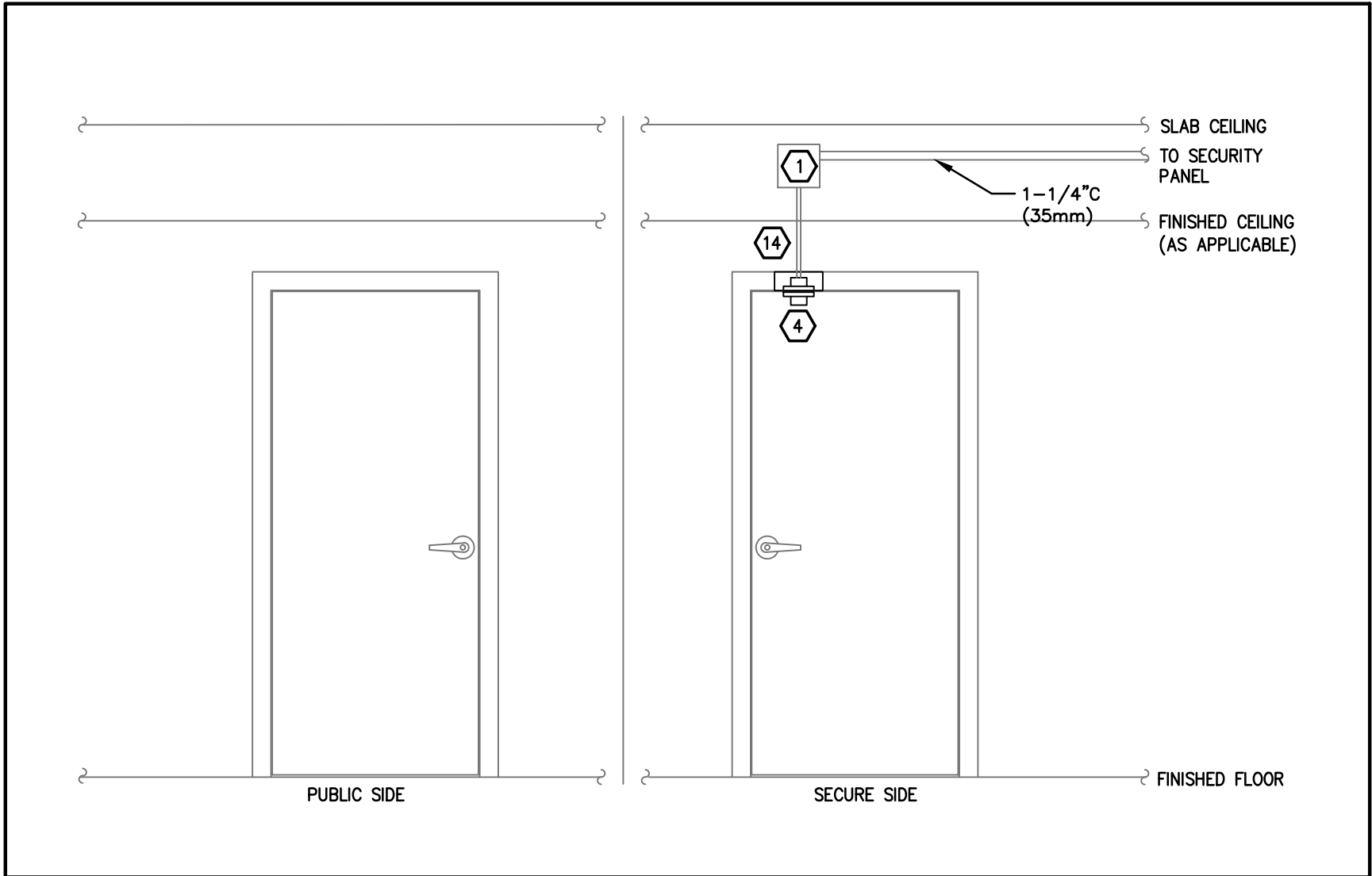
 CABLE INSIDE DOOR FRAMES/DOORS

 CONDUIT INSTALLED IN WALL SPACE

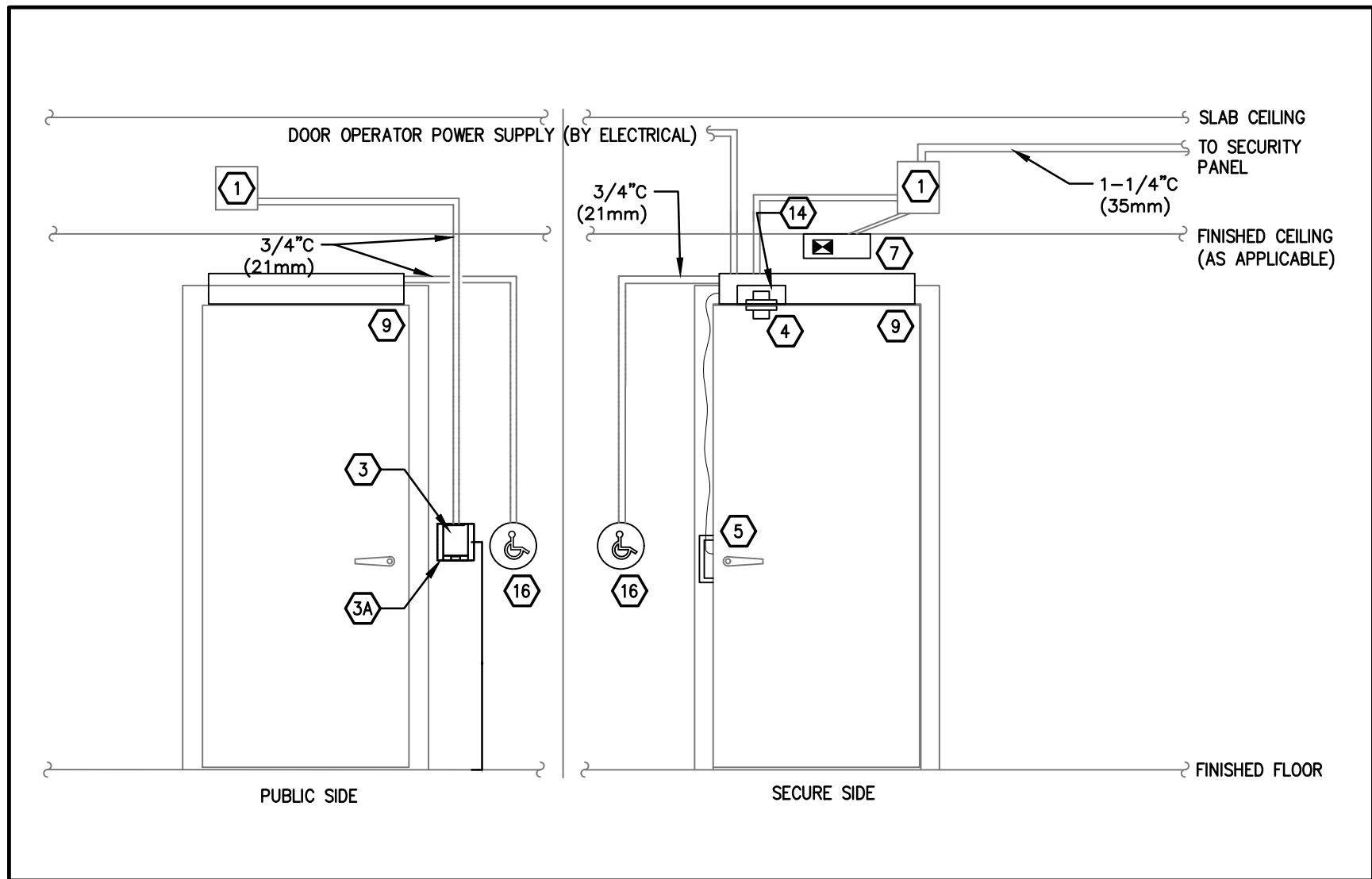
 CONDUIT INSTALLED IN CEILING SPACE



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

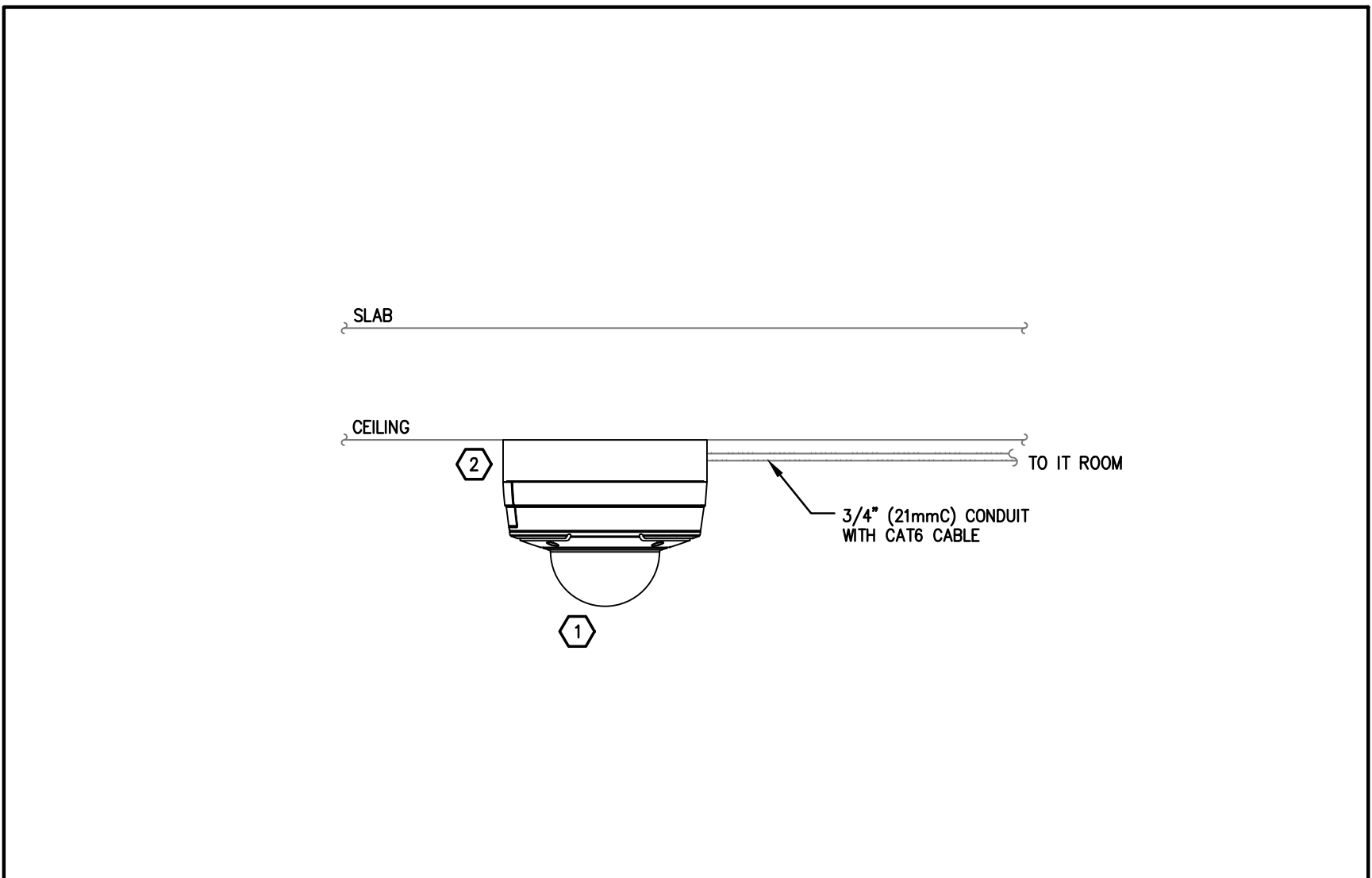
15 MICROPHONE

16 VIDEO CAMERA FOR ASSISTANCE STATION

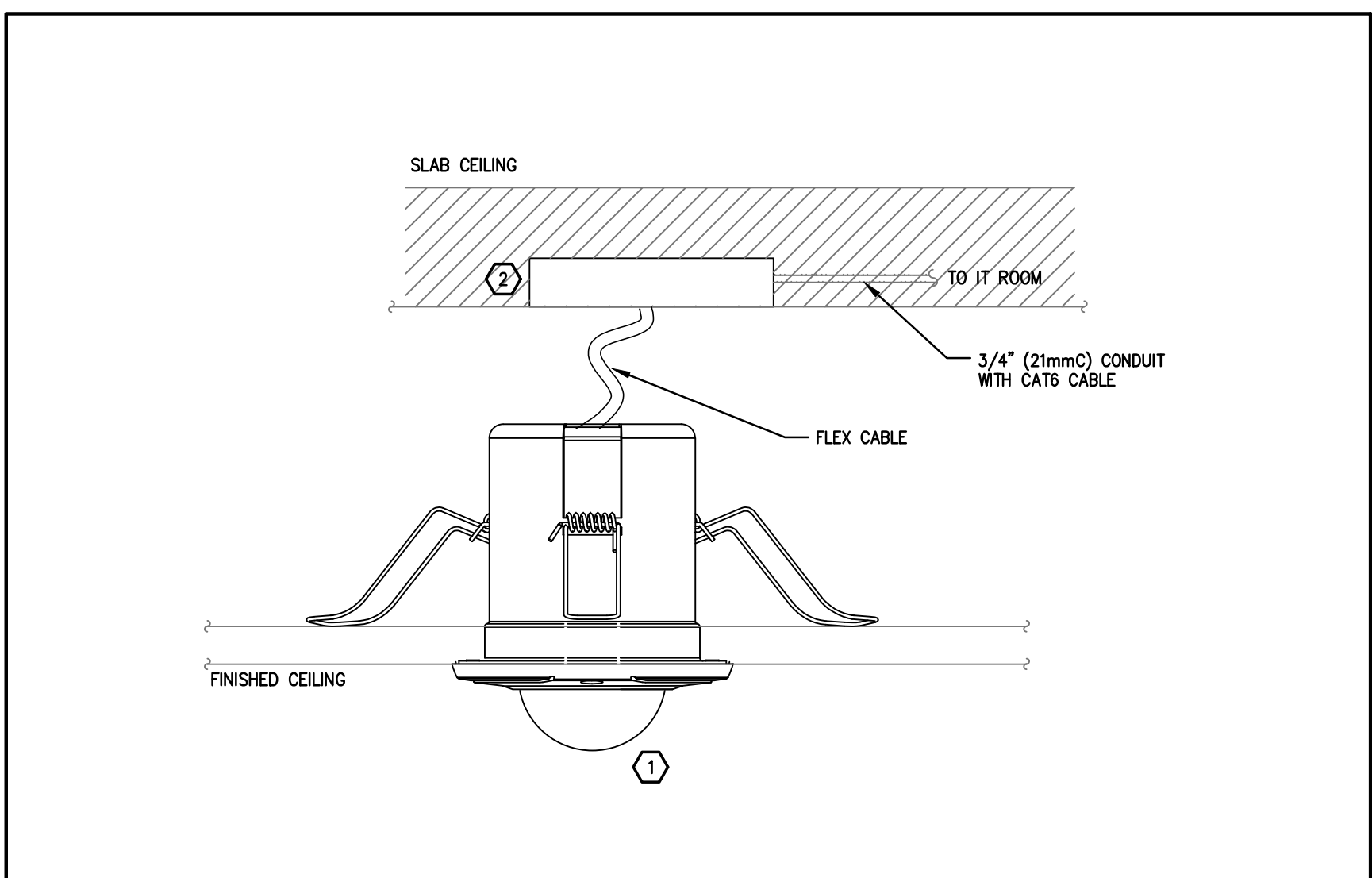
17 PARAPET MOUNT
- LINE TYPES LEGEND

 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.

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

DISCLAIMER:
NOT FOR CONSTRUCTION

CLIENT LOGO

CLIENT
UNIVERSITY OF TORONTO MISSISSAUGA

PROJECT
PRE-ENGINEERED BUILDING
3359 MISSISSAUGA ROAD

TITLE
DETAILS

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

SEAL	
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.	
COPYRIGHT © BSN Architects	SHEET NC :
SCALE : N.T.S.	DATE : FEB 2024
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
AV000

DIVISION OF RESPONSIBILITY

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
AV000

DRAWING LIST

CLIENT LOGO



UNIVERSITY OF
TORONTO
MISSISSAUGA

KEYPLAN



No.

ISSUANCE

DATE

1

ISSUED FOR AV TENDER

2024/11/15

DISCLAIMER:

NOT FOR CONSTRUCTION

CLIENT LOGO

CONSULTANT LOGO



Smith + Andersen
1100 - 100 Sheppard Ave East, Toronto ON, M2N 6N5
1 416 487 8151 smithandandersen.com

CLIENT

PROJECT

TITLE

AV DRAWING LIST

architects

Baird Sampson Neuert

416.363.8877bsnarchitects.com

REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, 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, A PART OF WF GROUP. DO NOT SCALE THIS DRAWING.

COPYRIGHT ©BSN Architects, A Part of WF Group Inc.

SCALE :1 : 100

DATE:

PROJECT NO:

DRAWN BY:S.R.

CHECKED BY:P.G.

SHEET NO:

AV000

AV COORDINATION MATRIX													
AUDIOVISUAL				ELECTRICAL								COMMUNICATION	MECHANICAL
DEVICE DETAILS				REQUIREMENTS						RECEPTACLES		LAN DROPS FOR OWNER NETWORK	HEAT LOAD
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)DUPLEX	(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)DUPLEX	(6)NETWORK DROPS	5118
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 AV COORDINATION MATRIX

- 1

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/Y SCOPE, SHALL BE REPORTED TO S+A IMMEDIATELY FOR CLARIFICATION.
- 2

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.
- 3

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.
- 4

CONTRACTOR TO ENSURE ALL WORK INSTALLATIONS ARE IN COMPLIANCE WITH ALL AUTHORITIES HAVING JURISDICTION.
- 5

CONTRACTOR MUST REVIEW SITE AND ENSURE ALL AV WORK WITHIN EXTENT IS INCLUDED IN THE AV CONTRACT.
- 6

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.
- 7

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.
- 8

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.
- 9

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.
- 10

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.
- 11

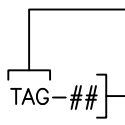
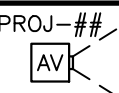
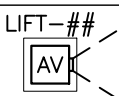

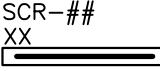






















REVIEW ALL PROJECT RELATED ARCHITECTURAL, MECHANICAL, ELECTRICAL, COMMUNICATIONS AND SECURITY DRAWINGS AND SPECIFICATIONS, DISCERN AND COORDINATE ALL OVERLAPPING WORK WITH AUDIOVISUAL SYSTEMS TO AVOID COLLISIONS AND CONFLICTS OF DEVICES.
- 12

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.
- 13

DEVICES SHALL NOT BE INSTALLED ABOVE ANY FURNITURE – AND SHALL BE LOCATED WHERE THERE IS ADEQUATE ACCESS FOR USE UNLESS INDICATED SPECIFICALLY ON AN ELEVATION DRAWING.
- 14

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 GENERAL NOTES – AUDIOVISUAL BIDDER INFORMATION

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
<div></div>		<div></div>	PROJECTOR.
		<div></div>	PROJECTOR ON LIFT.
<div>RACK-## </div>	AV EQUIPMENT RACK RACK 'ID' DESIGNATION: 'AV' = FREE STANDING EQUIPMENT RACK. 'CR' = CREDENZA RACK. 'RC' = RACK ON CASTERS.	<div>SCR-## </div>	PROJECTION SCREEN. NOTE: 'XX' DENOTES SCREEN SIZE (IN INCHES)
	<div>TAG-## XX </div>	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)	<div>TAG-## </div>
<div>TAG-## XX </div>		<div>TAG-## </div>	SURFACE MOUNT SPEAKER. 'TAG' DESIGNATION: 'S' = AV SPEAKER. 'PGS' = PAGING SPEAKER. 'SC' = SPEAKER CLUSTER
<div>TAG-## XX </div>	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)	<div>TAG-## </div>	WALL MOUNT ANTENNA. 'TAG' DESIGNATION: 'ANT' = MICROPHONE ANTENNA. 'ALS' = ASSISTIVE LISTENING ANTENNA.
<div>TAG-## XX </div>	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)	<div>TAG-## </div>	CEILING MOUNT ANTENNA. 'TAG' DESIGNATION: 'ANT' = MICROPHONE ANTENNA. 'ALS' = ASSISTIVE LISTENING ANTENNA.
<div>TAG-## </div>	BUTTON CONTROL PANEL BY AUDIOVISUAL CONTRACTOR. 'TAG' DESIGNATION: 'BP' = BUTTON PANEL. 'VC' = VOLUME CONTROL. 'SC' = SCREEN CONTROL (FOR PROJECTION SCREENS).	<div>MIC-## </div>	CEILING MOUNT MICROPHONE.
<div>FB-## </div>	FLOORBOX CONNECTION FOR TABLETOP CONNECTIVITY.	<div>AV-## </div>	AV MUDRING AV INPUT PLATE. ( 1 GANG) ( 2 GANG)
<div>CAM-## </div>	WALL MOUNT AV CAMERA.	<div>AV-## </div>	AV BACKBOX. ( 1 GANG) ( 2 GANG) ( 3 GANG)
<div>CAM-## </div>	CEILING MOUNT AV CAMERA.	<div>AV 'SIZE'</div>	AV CABLE PULL BOX. SIZE DESIGNATION: '6X6' = 6X6X6 AV CABLE PULL BOX. '12X12' = 12X12X6 AV CABLE PULL BOX.
<div>OC-## </div>	OCCUPANCY SENSORS.		
<div>PT-## </div>	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 AUDIO–VISUAL LEGEND

CLIENT LOGO

KEYPLAN

No.	ISSUANCE	DATE
1	ISSUED FOR AV TENDER	2024/11/15

DISCLAIMER:

NOT FOR CONSTRUCTION

CLIENT LOGO

1100 – 100 Sheppard Ave East, Toronto ON, M2N 6N5
1 416 487 8151 smithandandersen.com

CLIENT

PROJECT

TITLE

AV LEGENDS, NOTES & COORDINATION MATRIX

architects
Baird Sampson Neuert

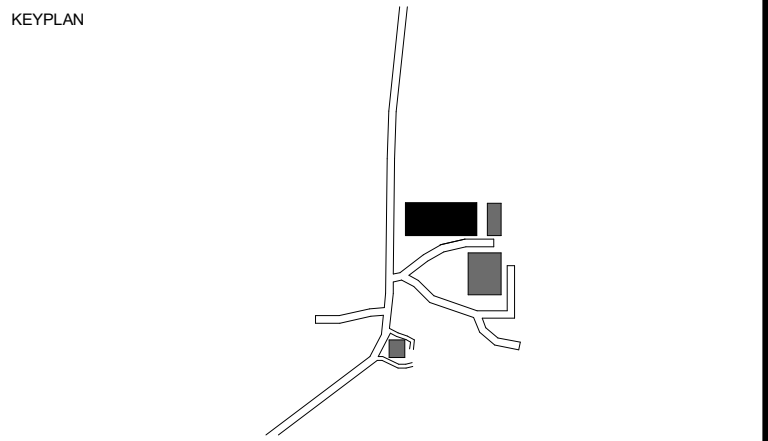
416.363.8877 bsnarchitects.com

REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, 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, A PART OF WF GROUP. DO NOT SCALE THIS DRAWING.

COPYRIGHT © BSN Architects, A Part of WF Group Inc.

SCALE :	1 : 100	SHEET NO : AV001
DATE :		
PROJECT NO :		
DRAWN BY :	S.R.	
CHECKED BY :	P.G.	

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



No.	ISSUANCE	DATE
1	ISSUED FOR AV TENDER	2024/11/15

DISCLAIMER:
NOT FOR CONSTRUCTION



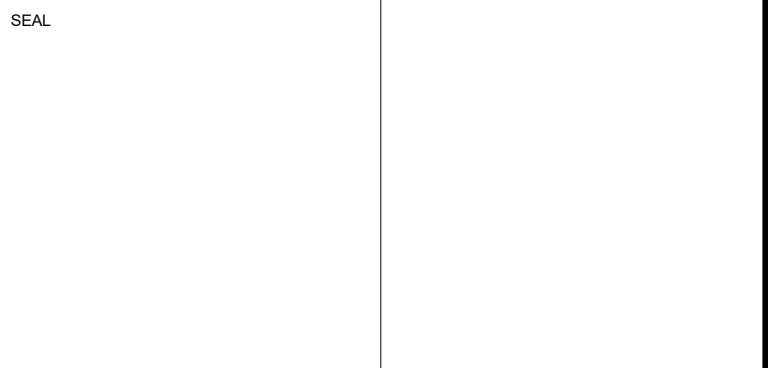
CLIENT
University of Toronto Mississauga

PROJECT
Robotics Laboratory Environment Building
3350 Mississauga Road

TITLE
GROUND FLOOR - AV DEVICE FLOOR PLAN

architects
Baird Sampson Neuert

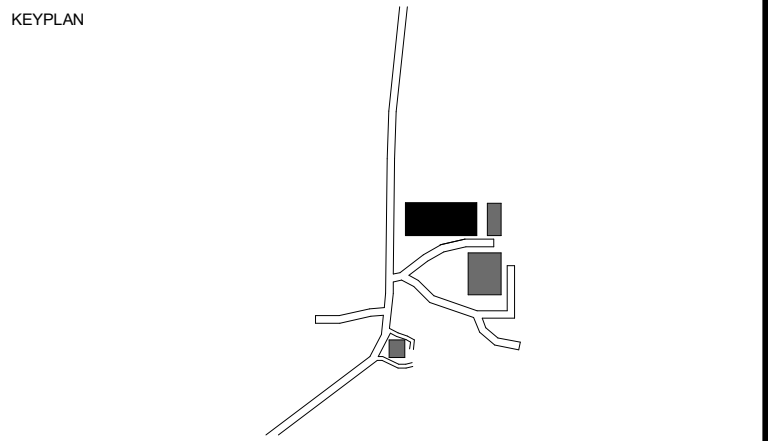
416.363.8877 bsnarchitects.com



REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, 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, A PART OF WF GROUP.
DO NOT SCALE THIS DRAWING.

COPYRIGHT ©		BSN Architects, A Part of WF Group Inc.	
SCALE :	1 : 100	SHEET NO :	AV101A
DATE :	03/16/20		
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.



No.	ISSUANCE	DATE
1	ISSUED FOR AV TENDER	2024/11/15

DISCLAIMER:
NOT FOR CONSTRUCTION



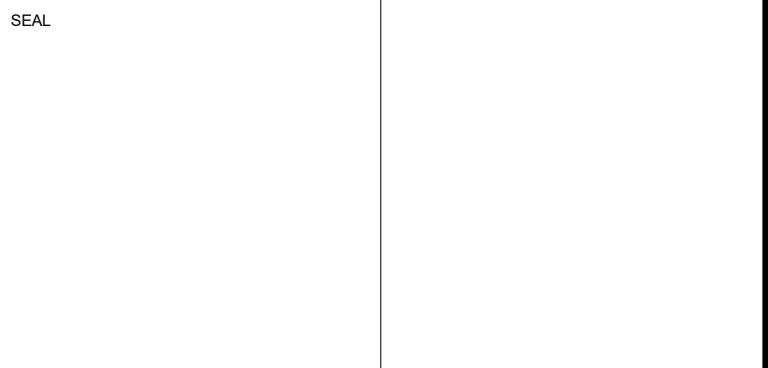
CLIENT
University of Toronto Mississauga

PROJECT
Robotics Laboratory Environment Building
3359 Mississauga Road

TITLE
GROUND FLOOR - AV DEVICE RCP

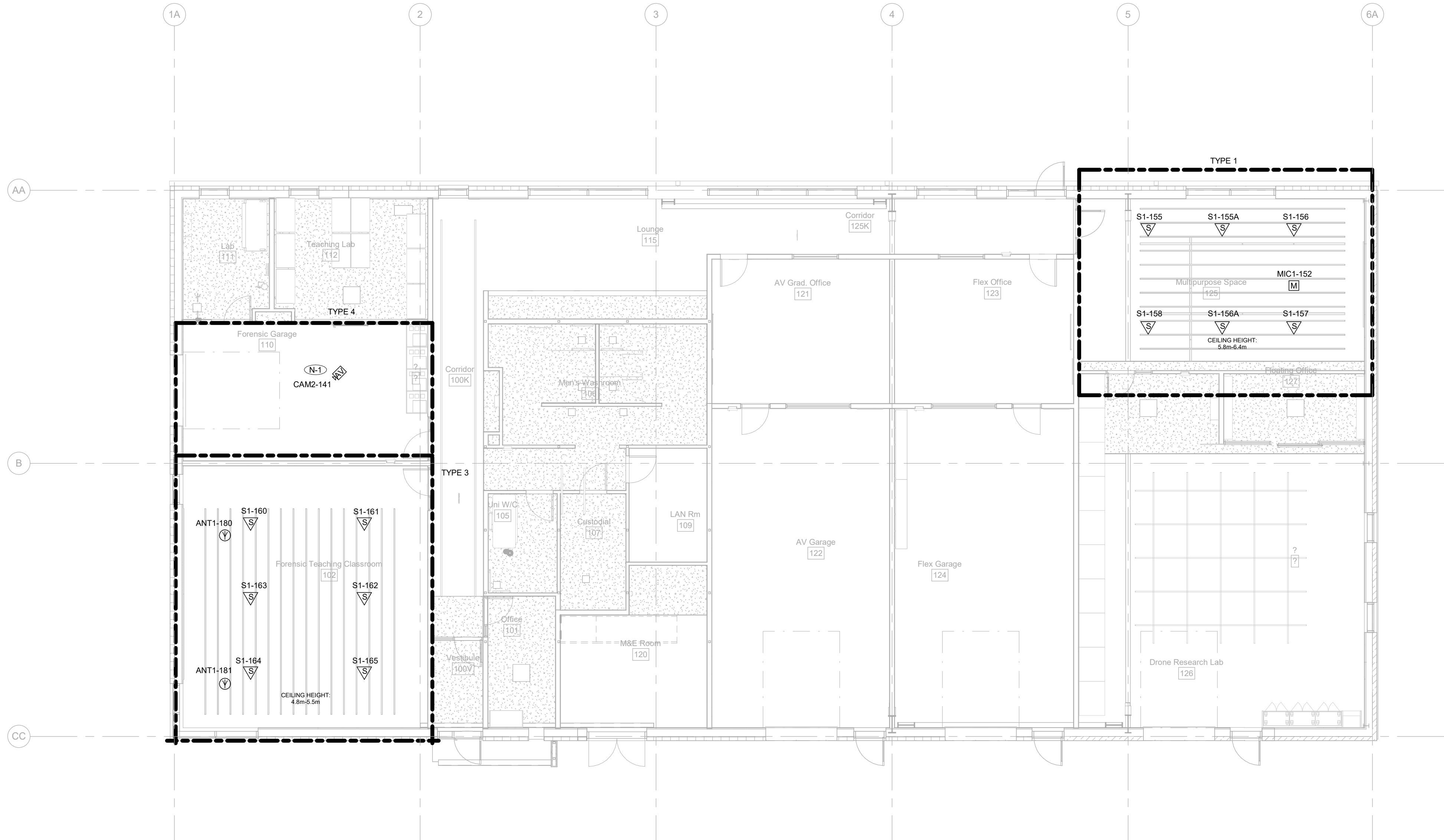
architects
Baird Sampson Neuert

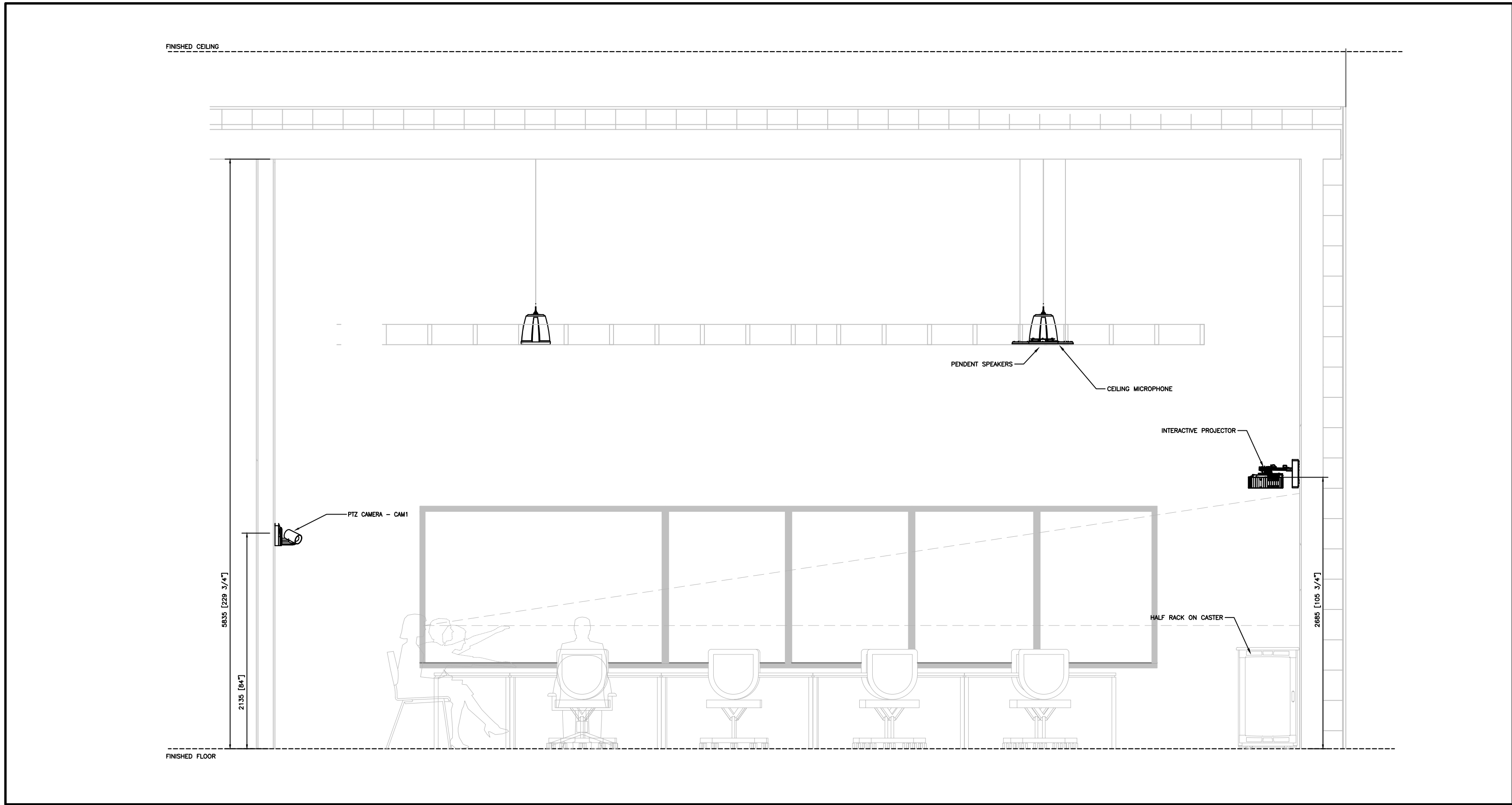
416.363.8877 bsnarchitects.com



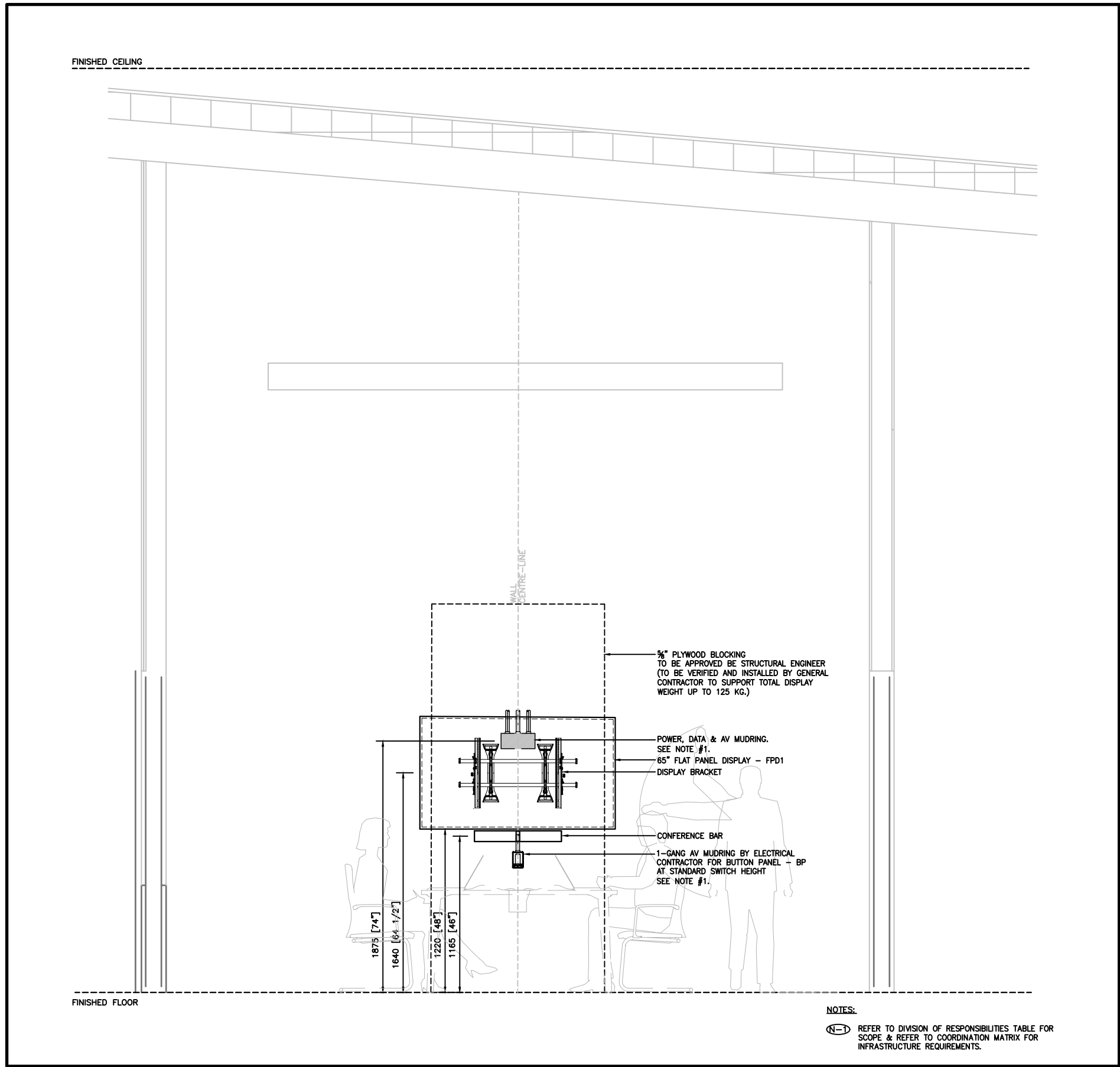
REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS,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

COPYRIGHT © BSN Architects, A Part of WF Group Inc.	
SCALE: 1 : 100	SHEET NO:
DATE: 03/16/20	AV101B
PROJECT NO: 21352.002	
DRAWN BY: Author	
CHECKED BY: Checker	

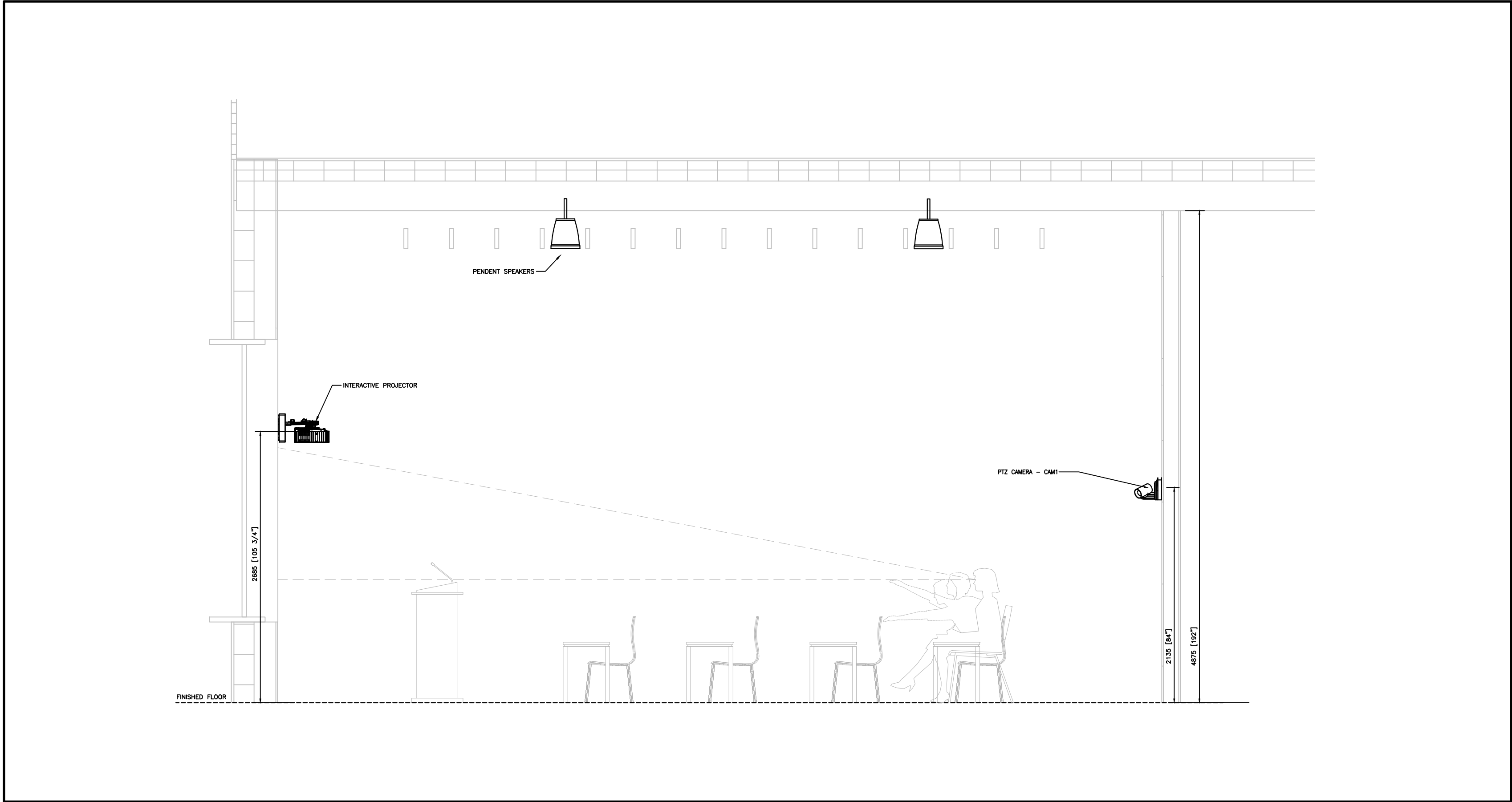




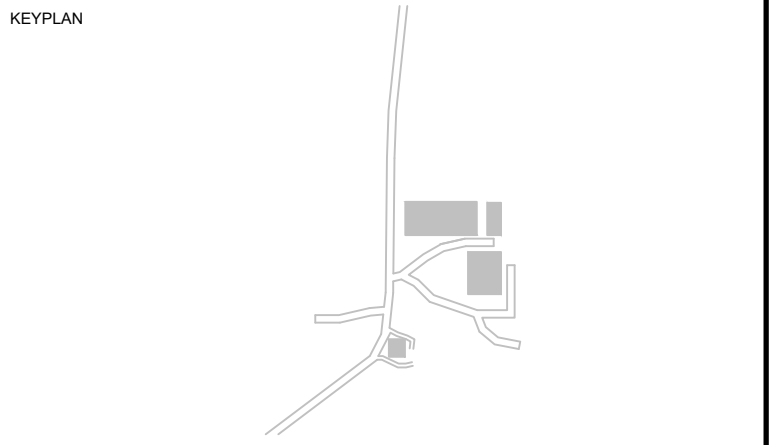
1 TYPE 1 - MULTIPURPOSE ROOM
AV DEVICE SIDE ELEVATION



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



2 TYPE 3 - FORENSIC TEACHING LAB
AV DEVICE SIDE ELEVATION



No.	ISSUANCE	DATE
1	ISSUED FOR AV TENDER	2024/11/15

DISCLAIMER:

NOT FOR CONSTRUCTION



TITLE
AV ELEVATIONS

architects |
Baird Sampson Neuert

416.363.8877 bsnarchitects.com

REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, 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, A PART OF WF GROUP. - DO NOT SCALE THIS DRAWING. -

COPYRIGHT © BSN Architects, A Part of WF Group Inc.

SCALE :	AS NOTED	SHEET NO :
DATE :		
PROJECT NO :		
DRAWN BY :	S.R.	
CHECKED BY :	P.G.	

AV200

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
AV300

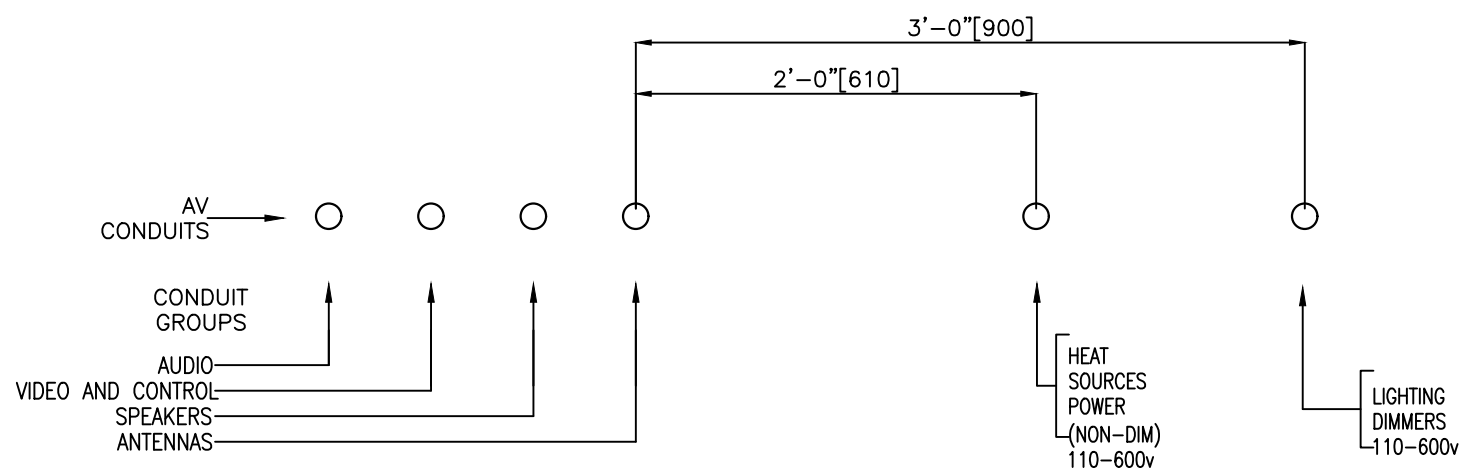
CONDUIT SIZES

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:

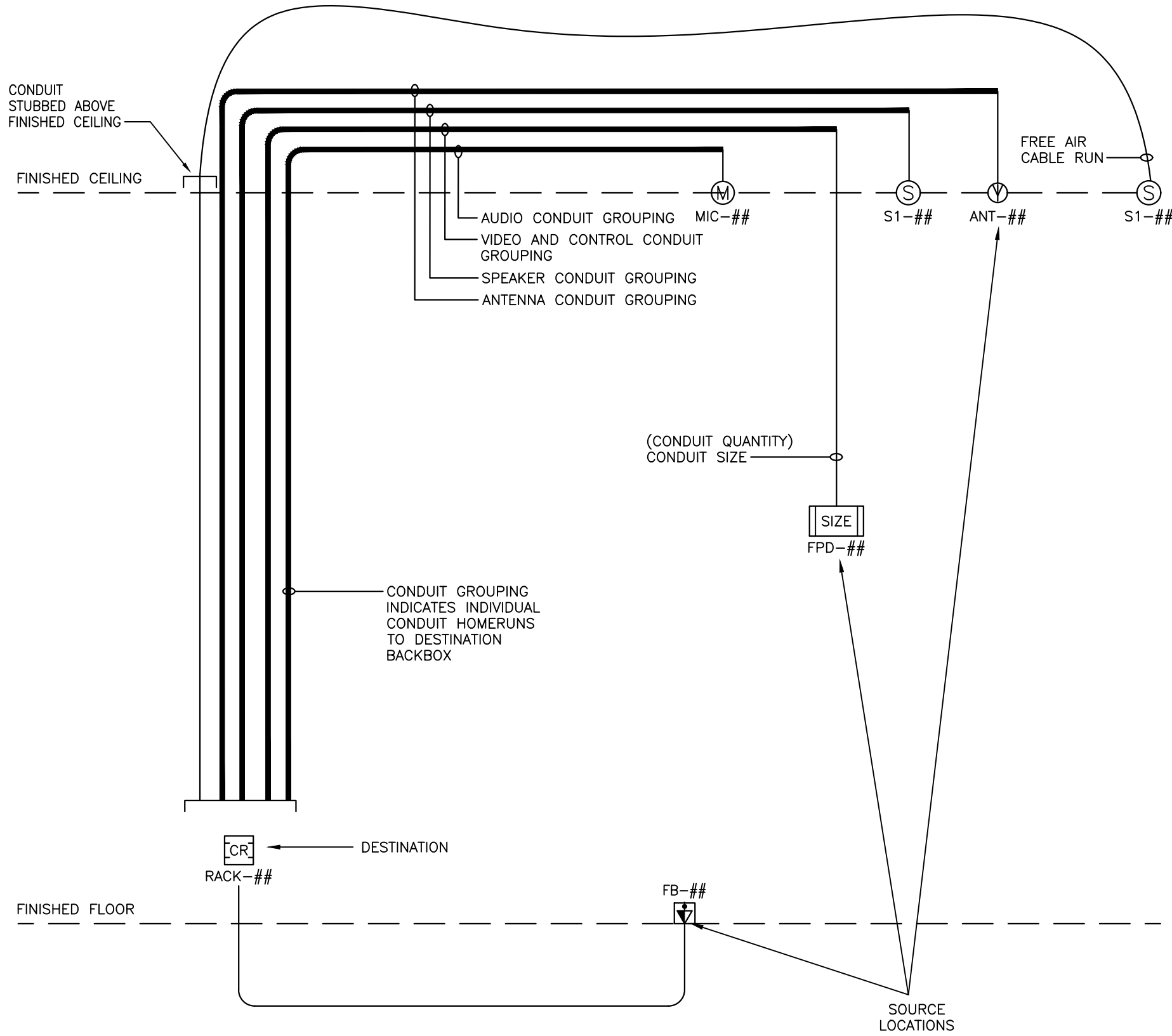


3. WHERE AUDIO-VISUAL CONDUITS CROSS HIGH VOLTAGE CONDUITS, CROSSINGS SHOULD BE AS CLOSE TO 90° AS POSSIBLE.
4. AV CONDUITS CONTAINING MICROPHONE CABLE SHOULD BE RUN AS FAR AS POSSIBLE FROM HIGH VOLTAGE CONDUITS. WHEN MULTIPLE AV CONDUITS ARE PROVIDED, ENSURE CONDUIT DESIGNATED FOR MICROPHONE CABLE IS FURTHEST AWAY FROM HIGH VOLTAGE CONDUIT.
5. NOTIFY AV CONSULTANT IF AV CONDUITS ARE TO BE RUN AT A DISTANCE CLOSER THAN RECOMMENDED SEPARATIONS.
6. ALL DIMENSIONS ARE MINIMUM VALUES.
7. FOR RUNS OF LENGTH GREATER THAN 75', DOUBLE ALL VALUES.
8. 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. EXAMPLE 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, RACEWAYS AND CONDUIT NEAR POWER TRANSFORMERS, LIGHTING DIMMERS, POWER CONTROL EQUIPMENT, HEAVY CURRENT SWITCHGEAR, FUSEBOARDS, FLUORESCENT BALLASTS, MOTORS, OR ANY OTHER EQUIPMENT WHICH RADIATES EMI.
- 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 DEGREES 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

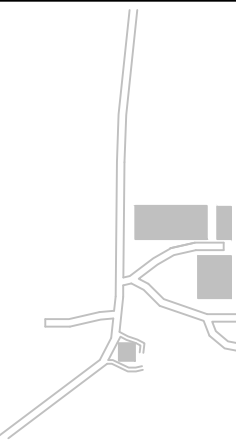
AV CONDUIT AND BACKBOX NETWORK
SCALE: NTS

CLIENT LOGO



UNIVERSITY OF
TORONTO
MISSISSAUGA

KEYPLAN



No.	ISSUANCE	DATE
1	ISSUED FOR AV TENDER	2024/11/15

DISCLAIMER:

NOT FOR CONSTRUCTION

CLIENT LOGO

CONSULTANT LOGO



CLIENT

PROJECT

TITLE

AV CONDUIT NOTES

architects
Baird Sampson Neuert

416.363.8877 bsnarchitects.com

REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, 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, A PART OF WF GROUP. DO NOT SCALE THIS DRAWING.

COPYRIGHT © BSN Architects, A Part of WF Group Inc.

SCALE : 1 : 100

DATE :

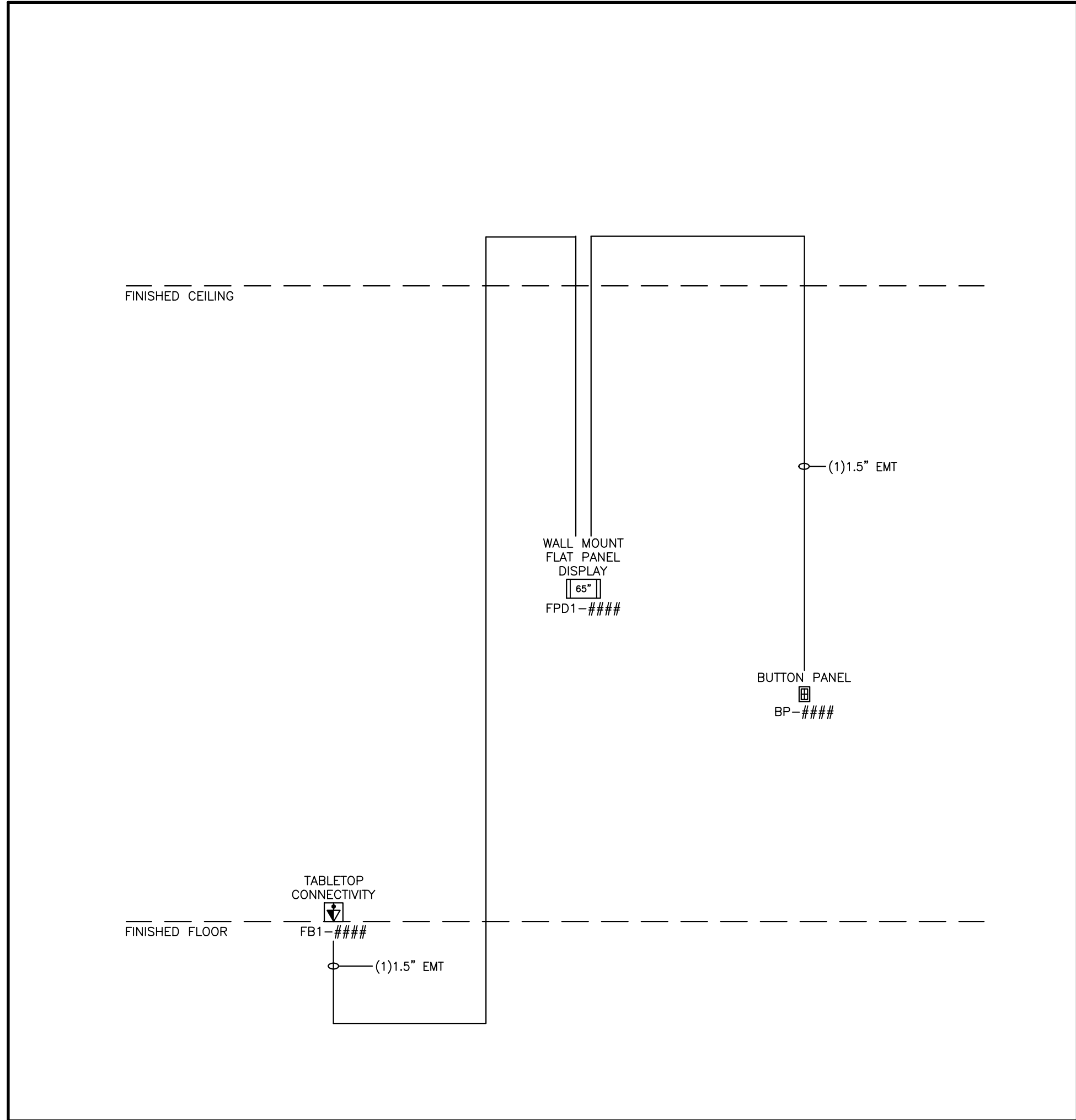
PROJECT NO :

DRAWN BY : S.R.

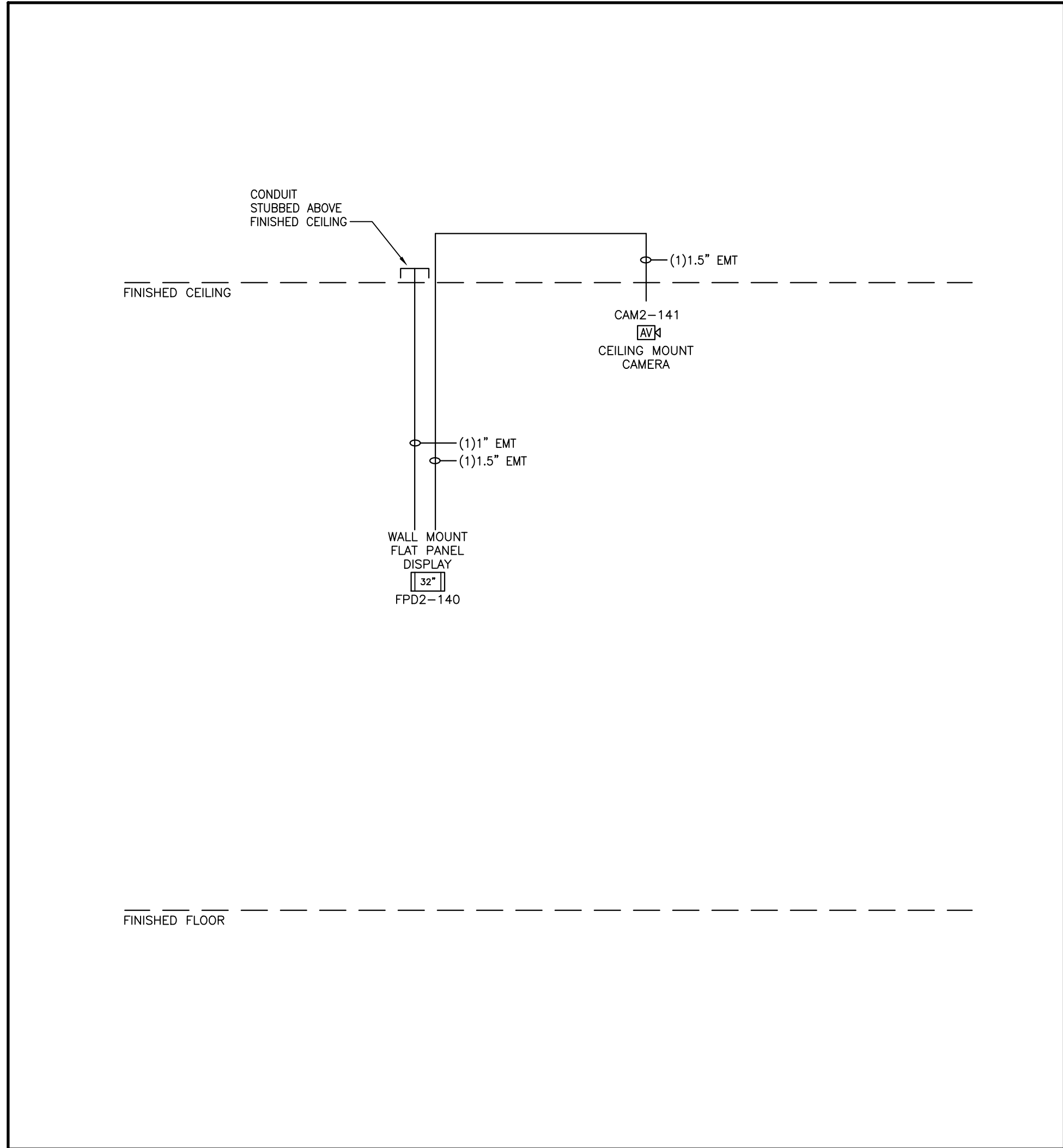
CHECKED BY : P.G.

SHEET NO :

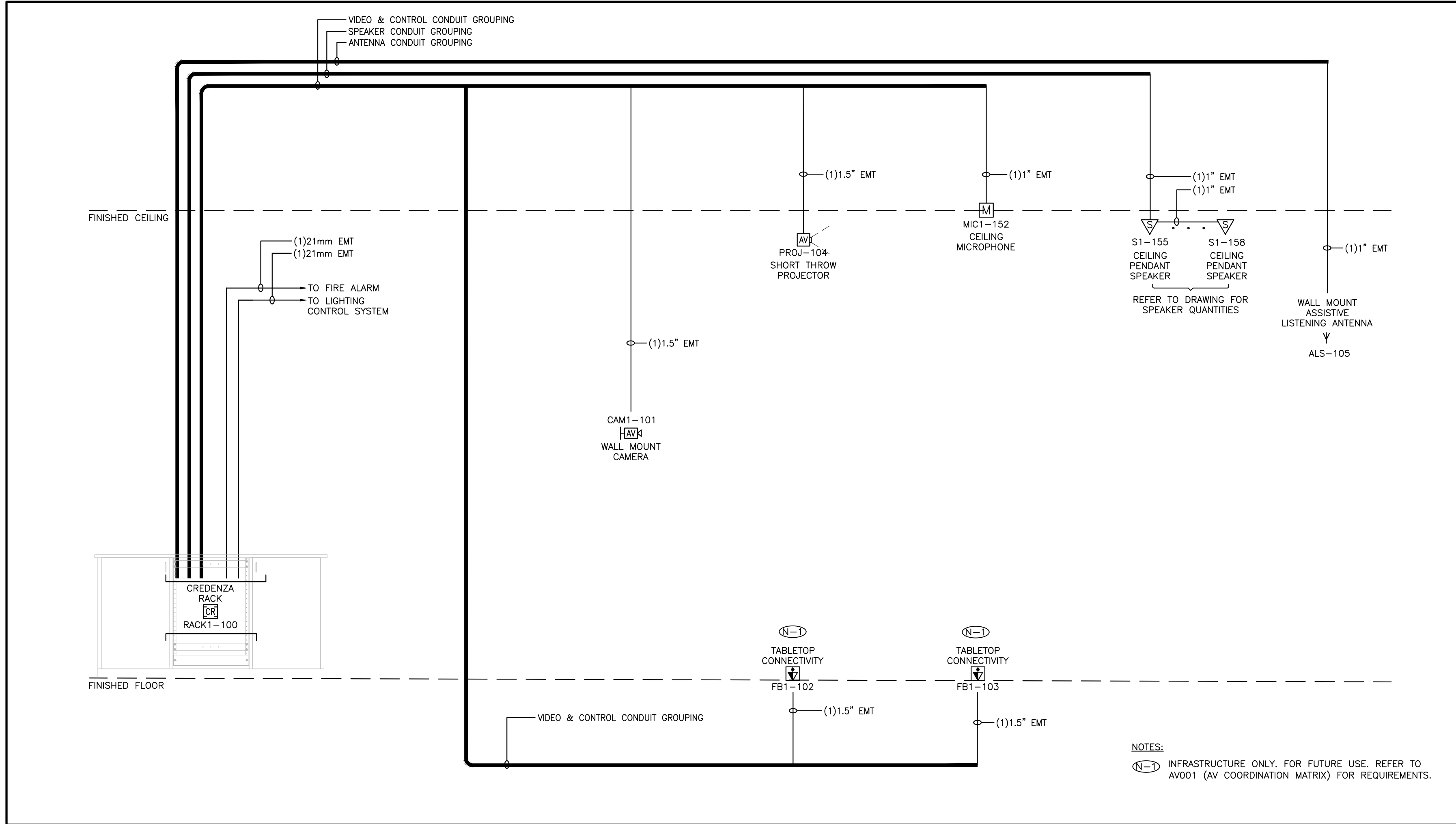
AV300



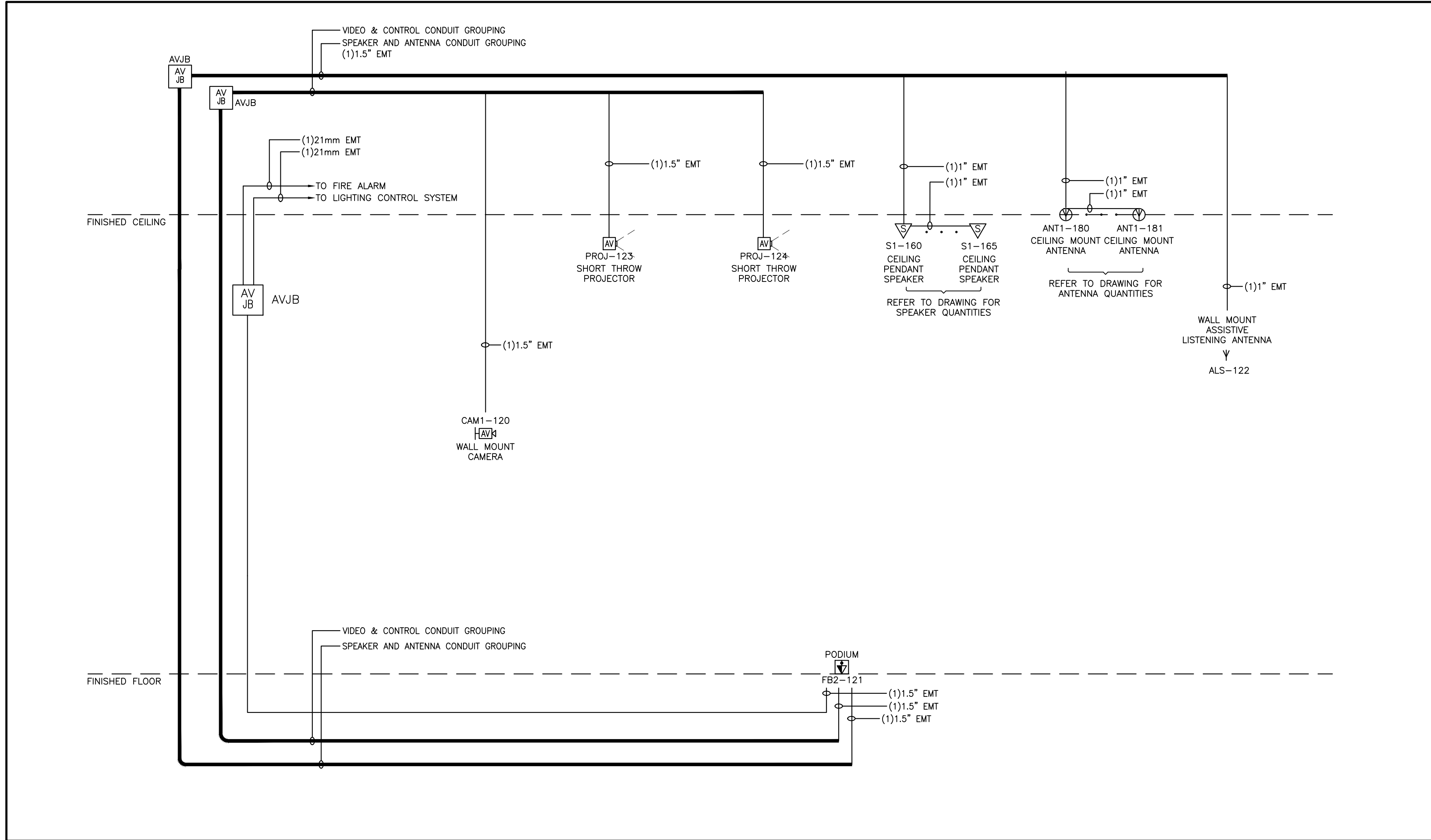
3 TYPE 2 - AV GRAD & FLEX SPACE OFFICES
AV RISER DIAGRAM



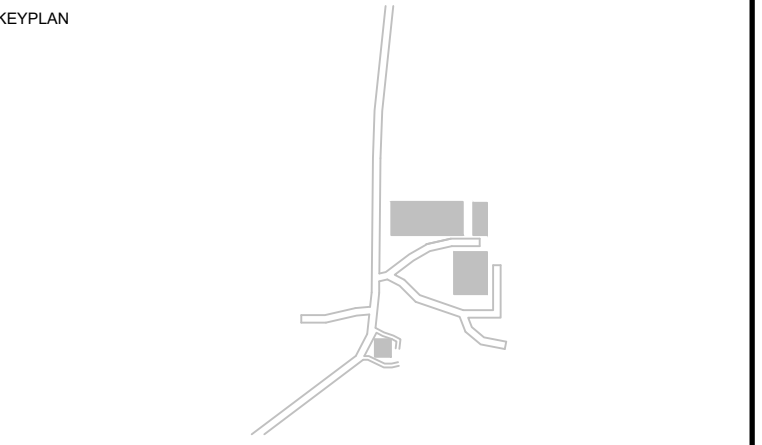
4 TYPE 4 - FORENSIC GARAGE
AV RISER DIAGRAM



1 TYPE 1 - MULTI-PURPOSE SPACE
AV RISER DIAGRAM

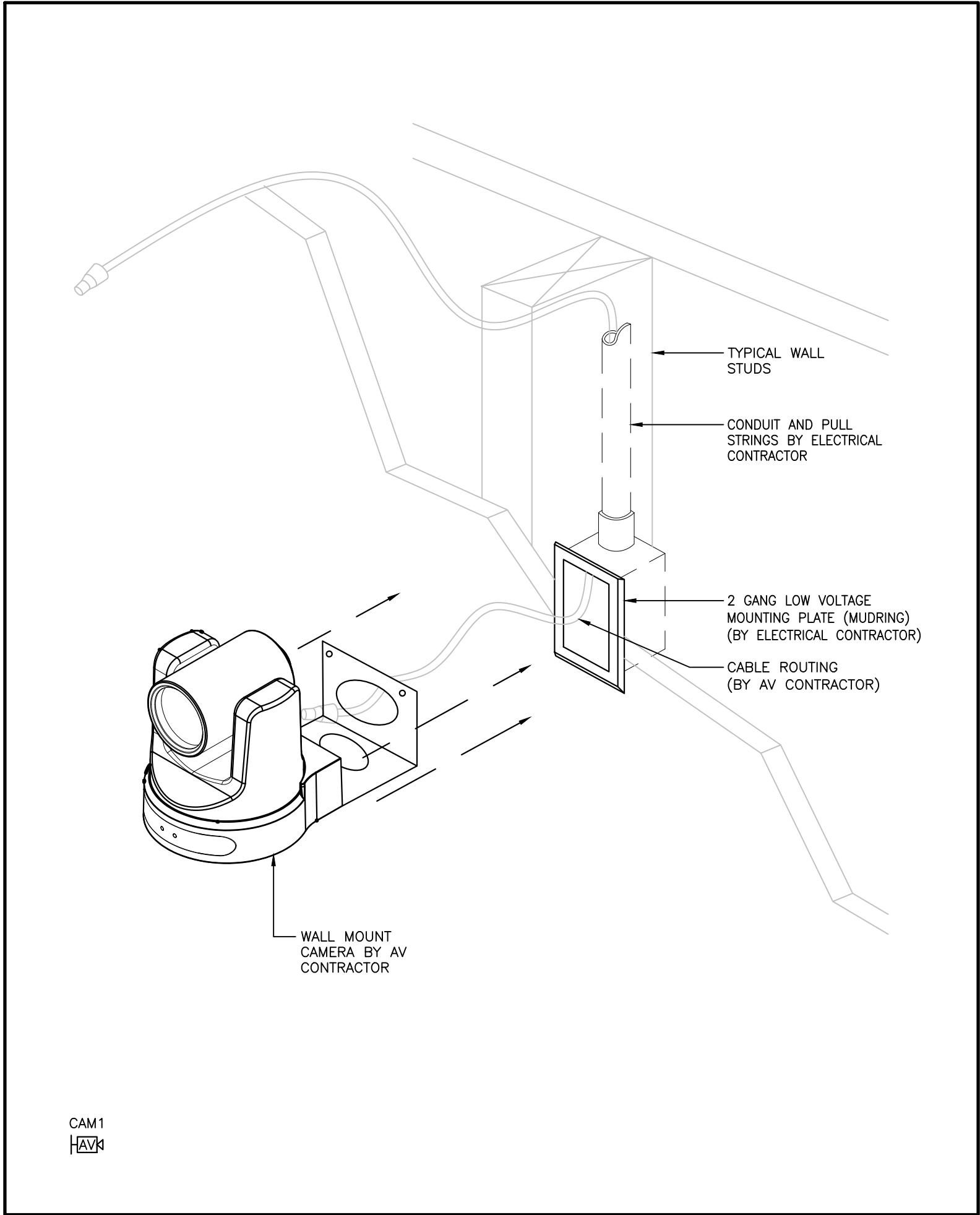


2 TYPE 3 - FORENSIC TEACHING LAB
AV RISER DIAGRAM

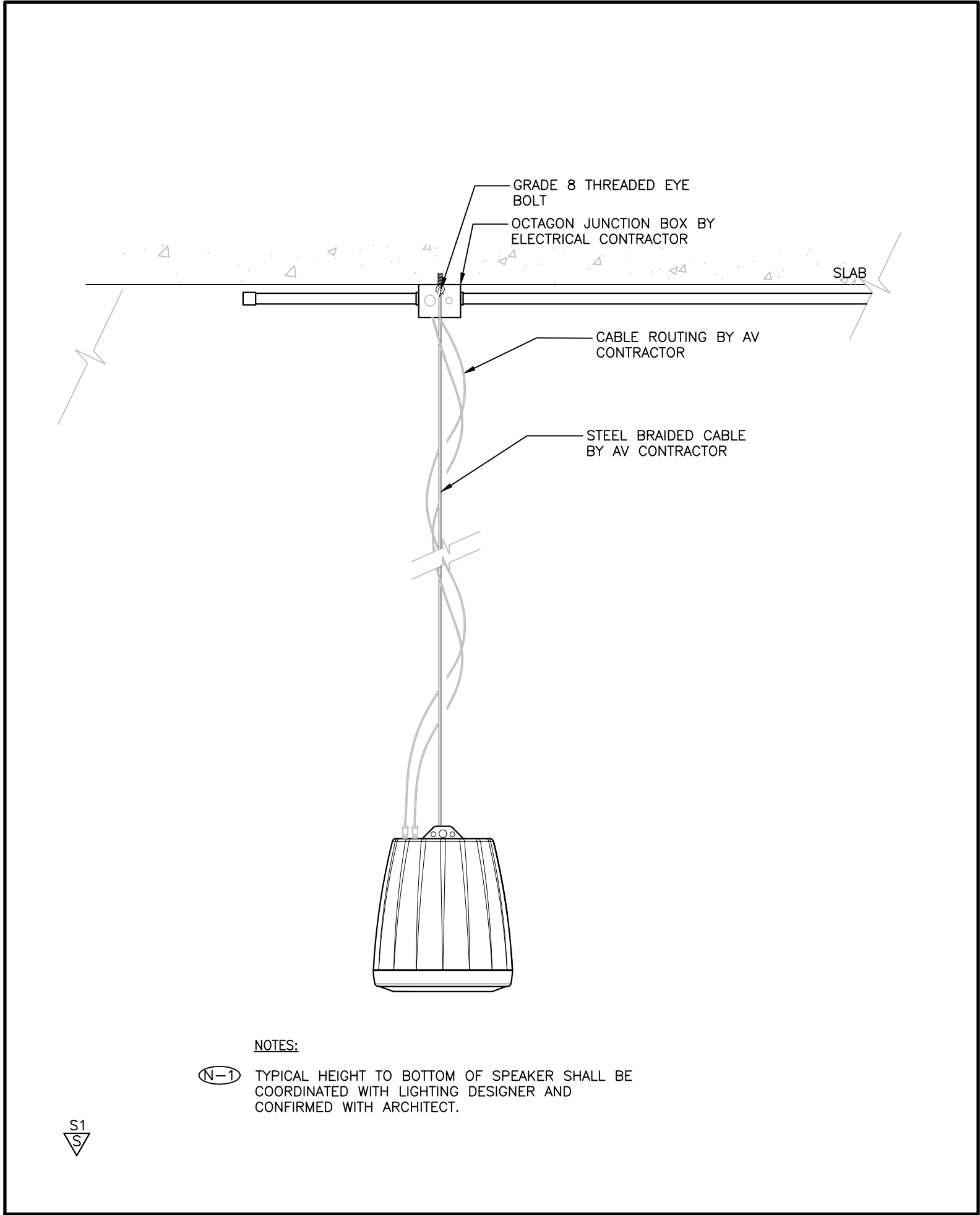


No.	ISSUANCE	DATE
1	ISSUED FOR AV TENDER	2024/11/15

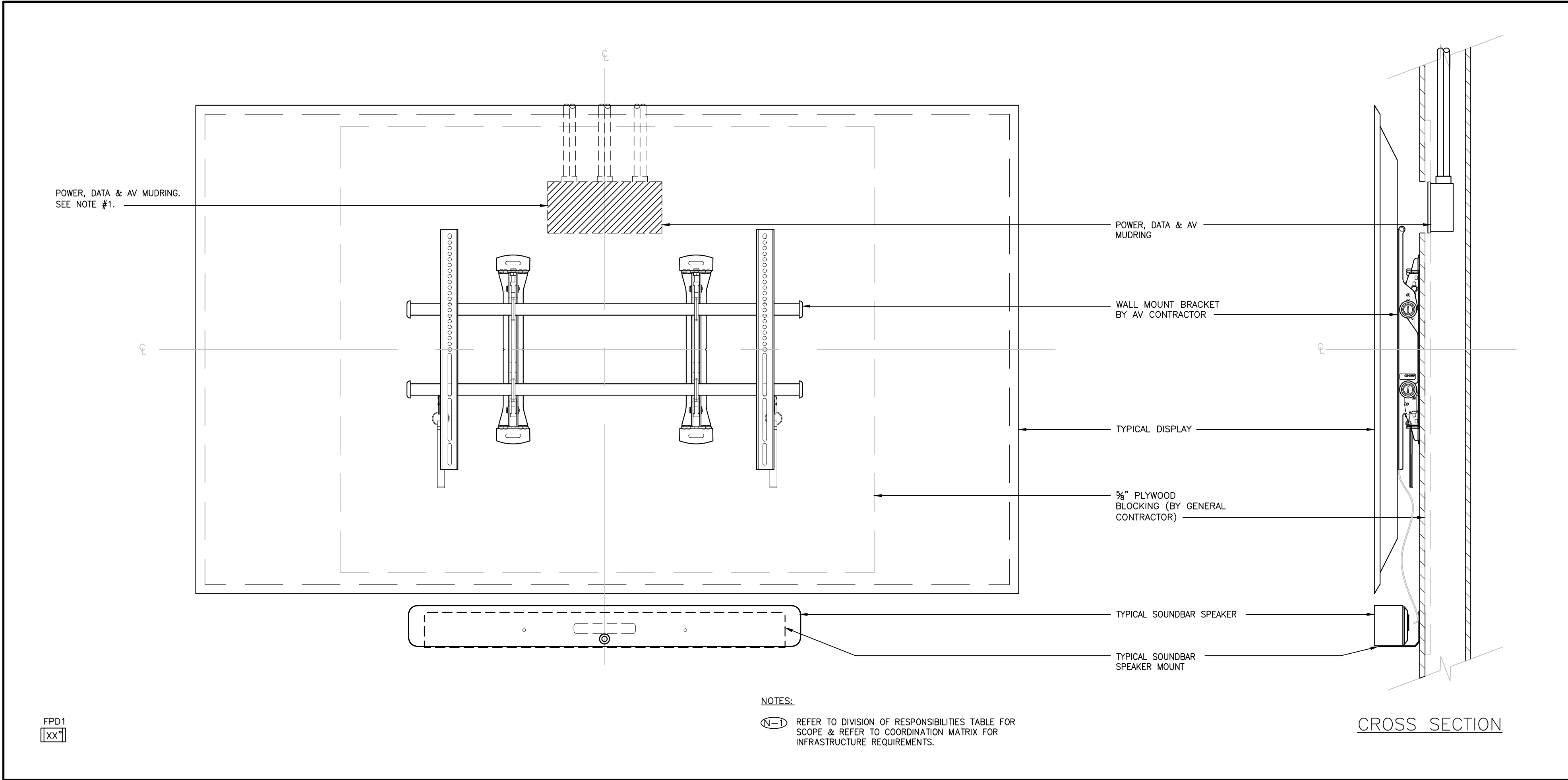
DISCLAIMER:
NOT FOR CONSTRUCTION



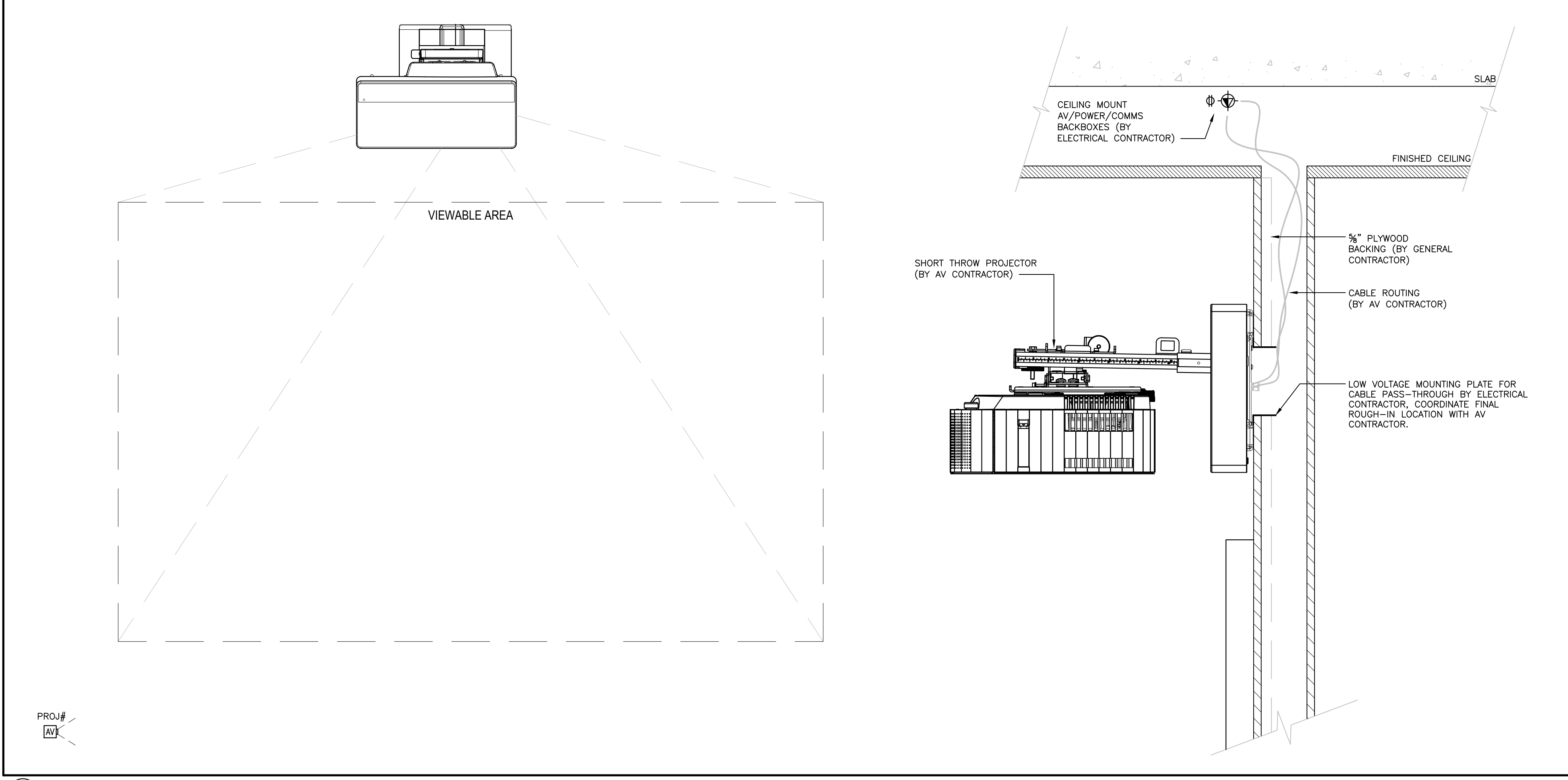
3 WALL MOUNT CAMERA
SCALE: NTS



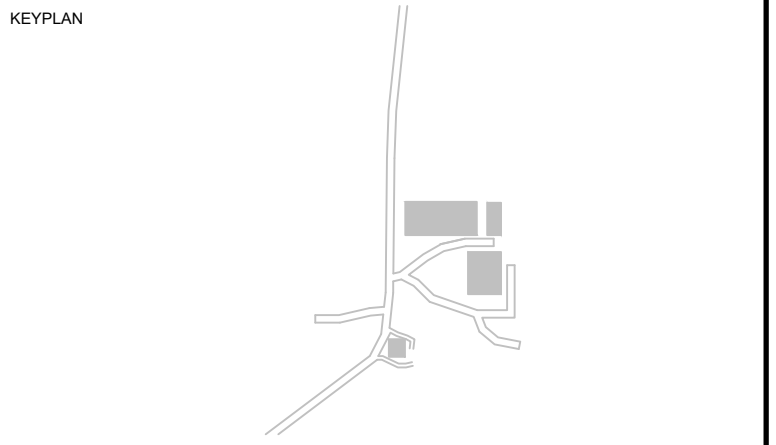
4 PENDANT SPEAKER
SCALE: NTS



1 WALL MOUNT DISPLAY W/ SOUND BAR
SCALE: NTS



2 SHORT THROW PROJECTOR
SCALE: NTS



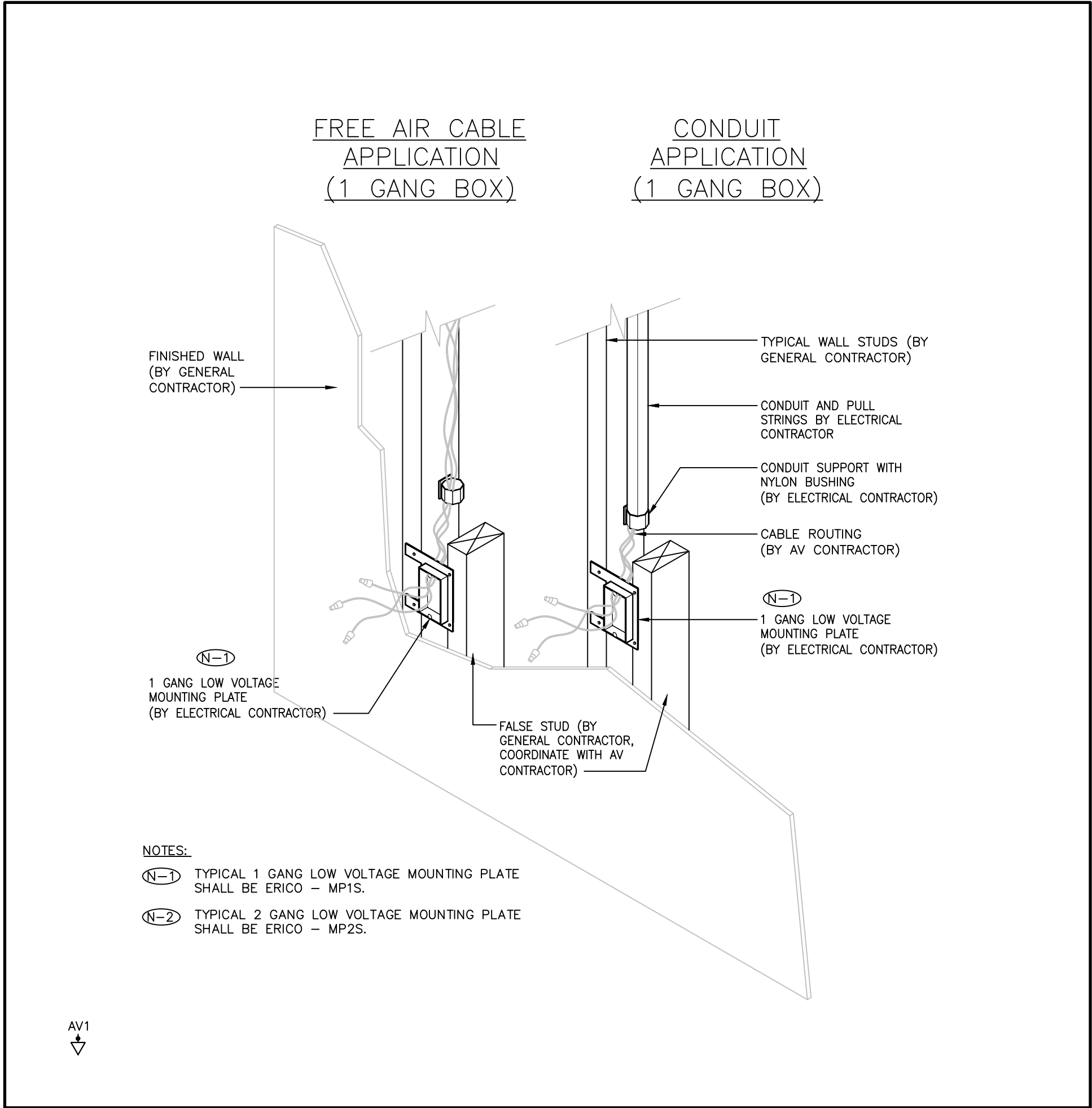
No.	ISSUANCE	DATE
1	ISSUED FOR AV TENDER	2024/11/15

DISCLAIMER:
NOT FOR CONSTRUCTION

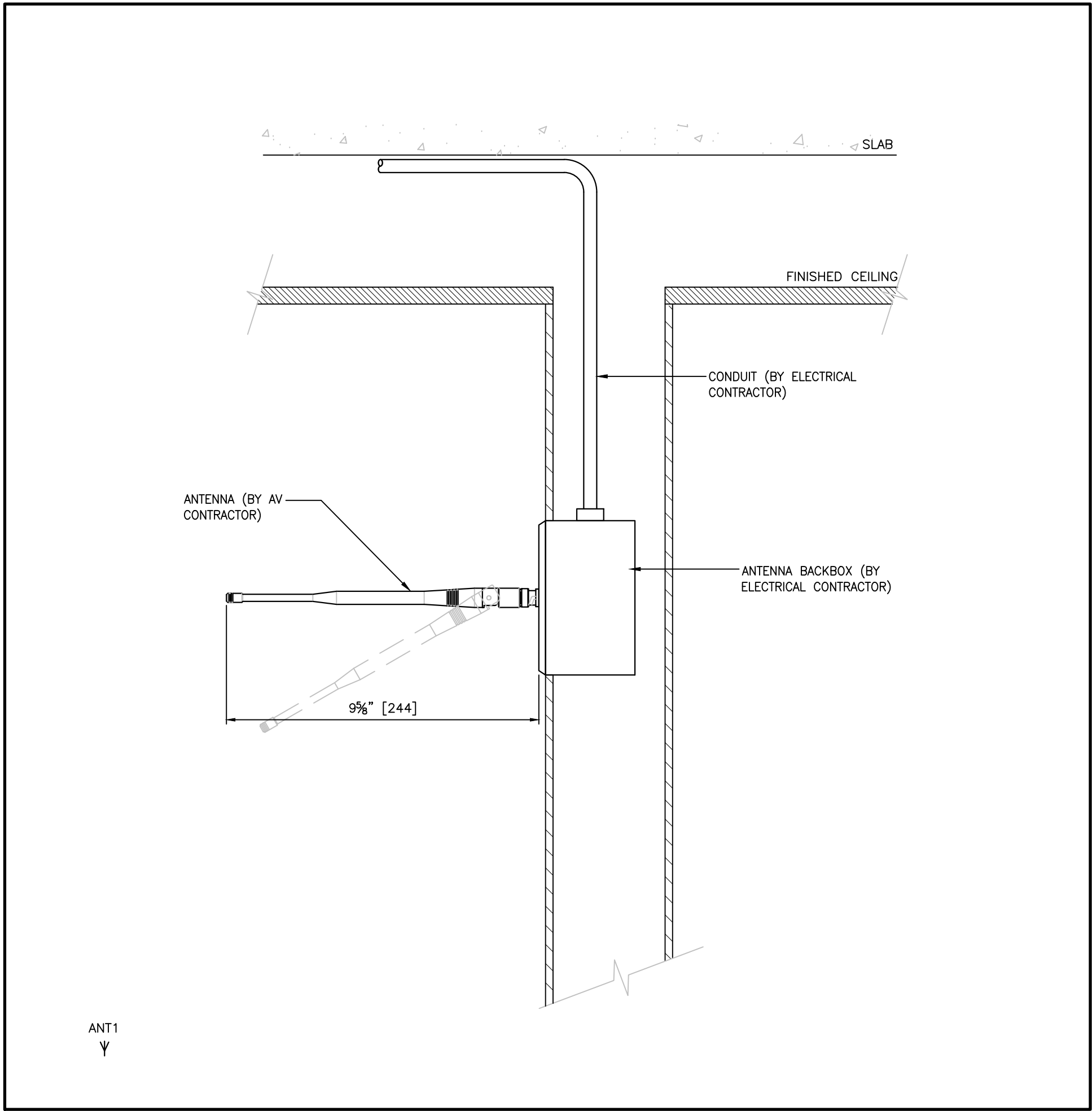
CLIENT LOGO

CONSULTANT LOGO

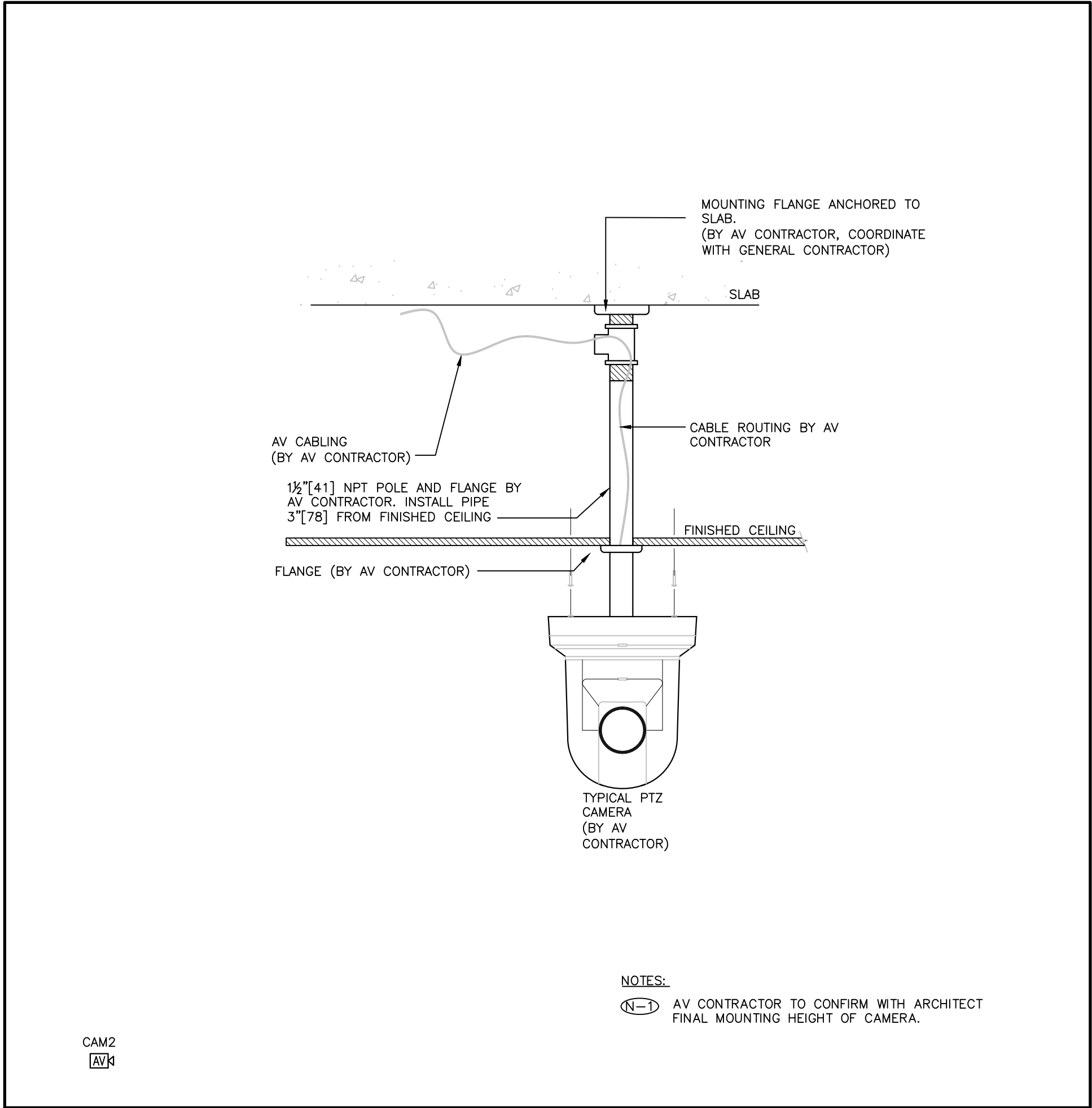
 **Smith + Andersen**
1100 - 100 Sheppard Ave East, Toronto ON, M2N 6N5
1416 487 8151 | smithandandersen.com



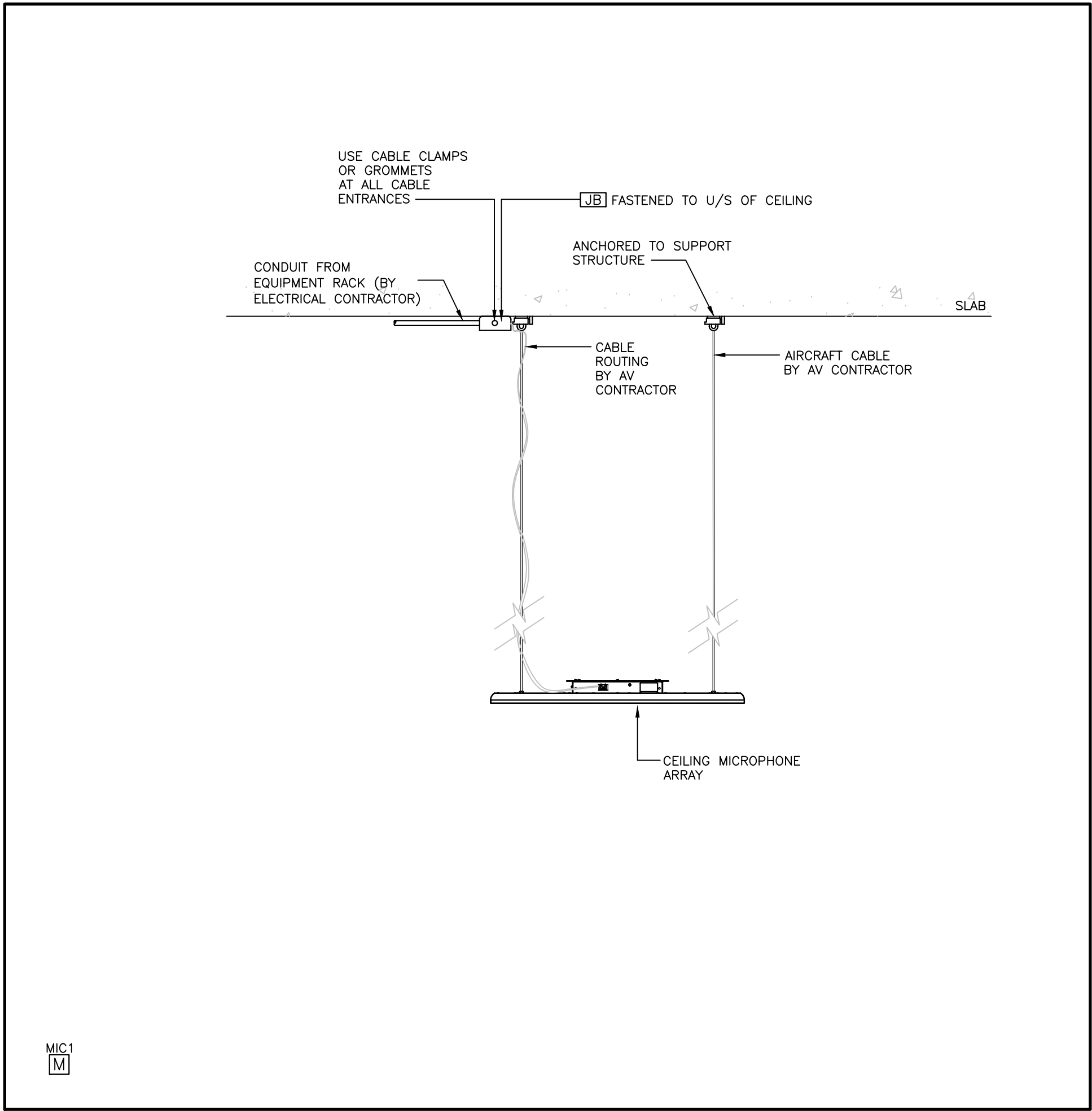
3 LOW VOLTAGE MOUNTING PLATE
SCALE: NTS



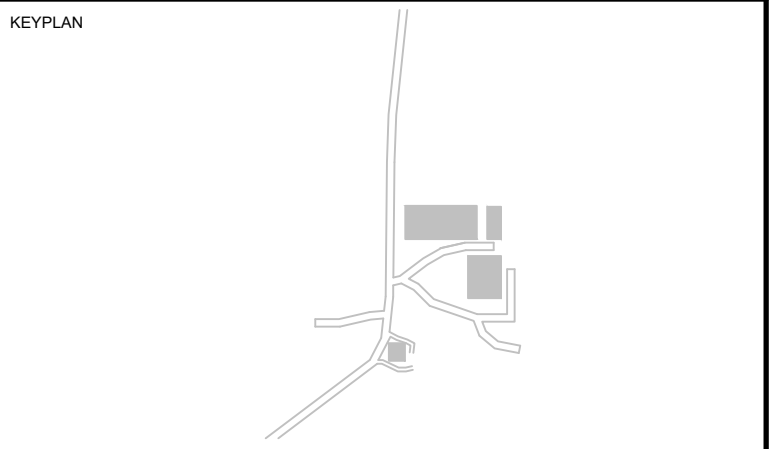
4 WALL MOUNTED ANTENNA
SCALE: NTS



1 CEILING MOUNT CAMERA
SCALE: NTS



2 TYPICAL CEILING MICROPHONE ARRAY WITH AIRCRAFT CABLES
SCALE: NTS



No.	ISSUANCE	DATE
1	ISSUED FOR AV TENDER	2024/11/15

DISCLAIMER:

NOT FOR CONSTRUCTION



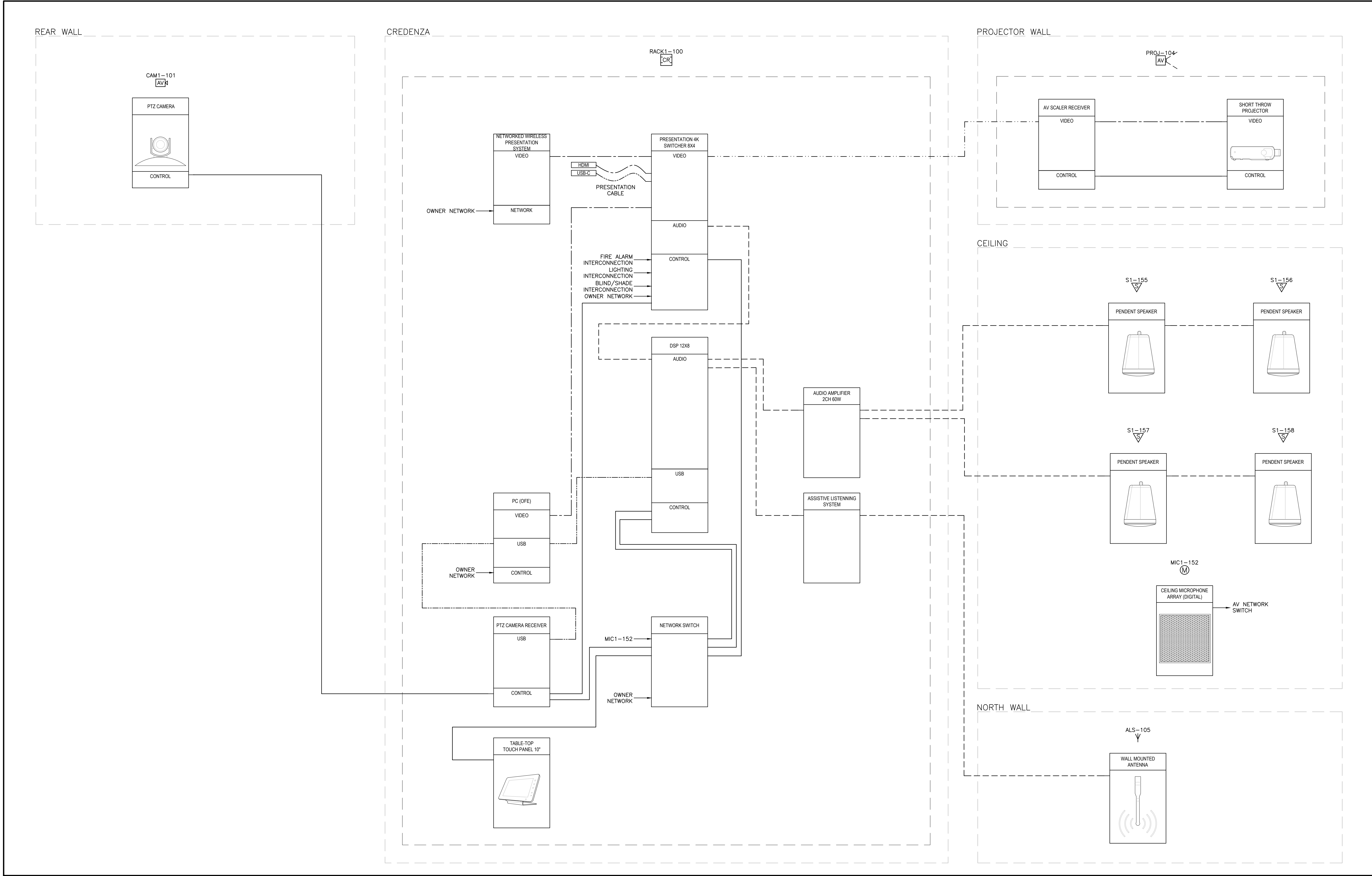
TITLE
AV DETAILS

architects
Baird Sampson Neuert

416.363.8877 bsnarchitects.com

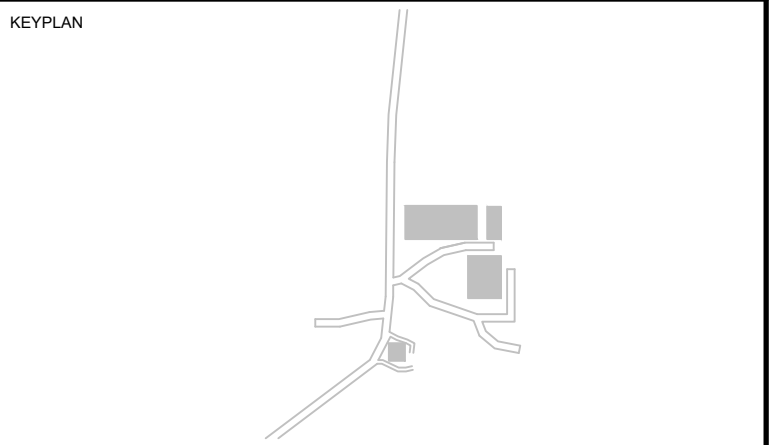
REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, IS FORBIDDEN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS TO BSN ARCHITECTS,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

COPYRIGHT ©	BSN Architects, A Part of WF Group Inc.	SHEET NO.:
SCALE :	1 : 100	AV401
DATE :		
PROJECT NO.:		
DRAWN BY :	S.R.	
CHECKED BY :	P.G.	



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

LEGEND	
HDBaseT	-----
VIDEO	-----
AUDIO	-----
CONTROL	-----
USB	-----



No.	ISSUANCE	DATE
1	ISSUED FOR AV TENDER	2024/11/15

DISCLAIMER:
NOT FOR CONSTRUCTION



CLIENT

PROJECT

TITLE
AV FUNCTIONALS

architects
Baird Sampson Neuert

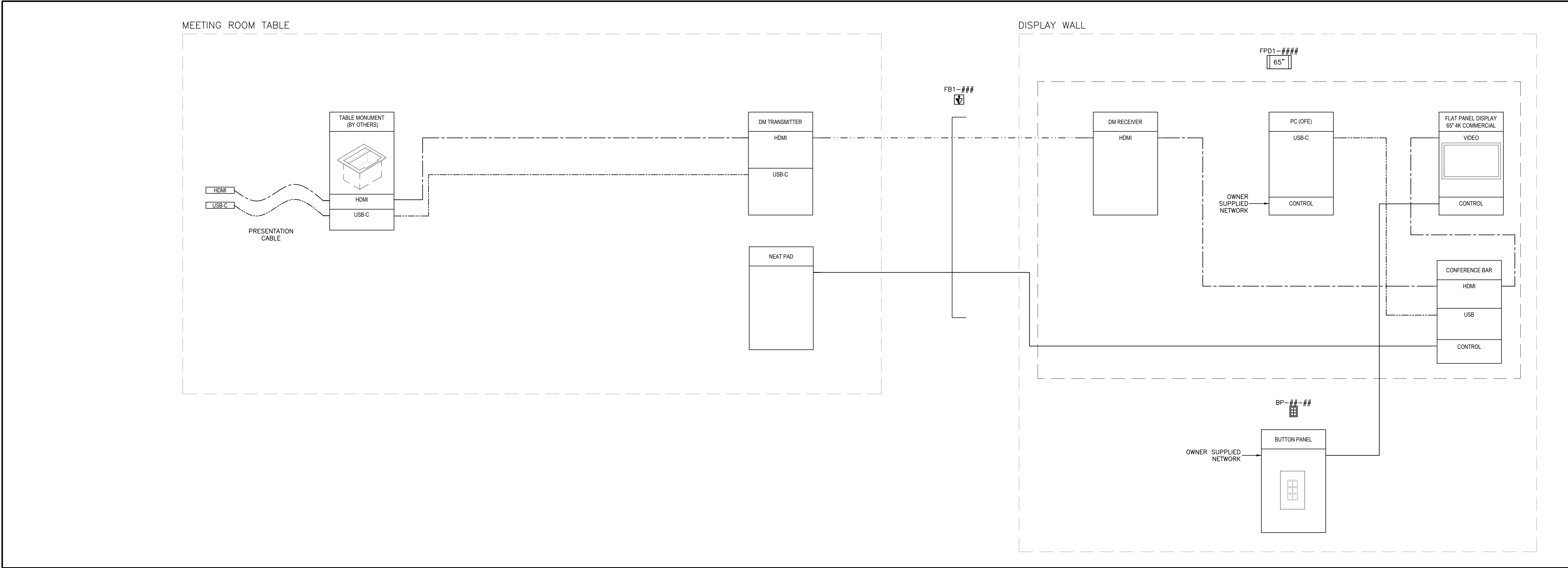
416.363.8877 bsnarchitects.com

REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, 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, A PART OF WF GROUP. - DO NOT SCALE THIS DRAWING.

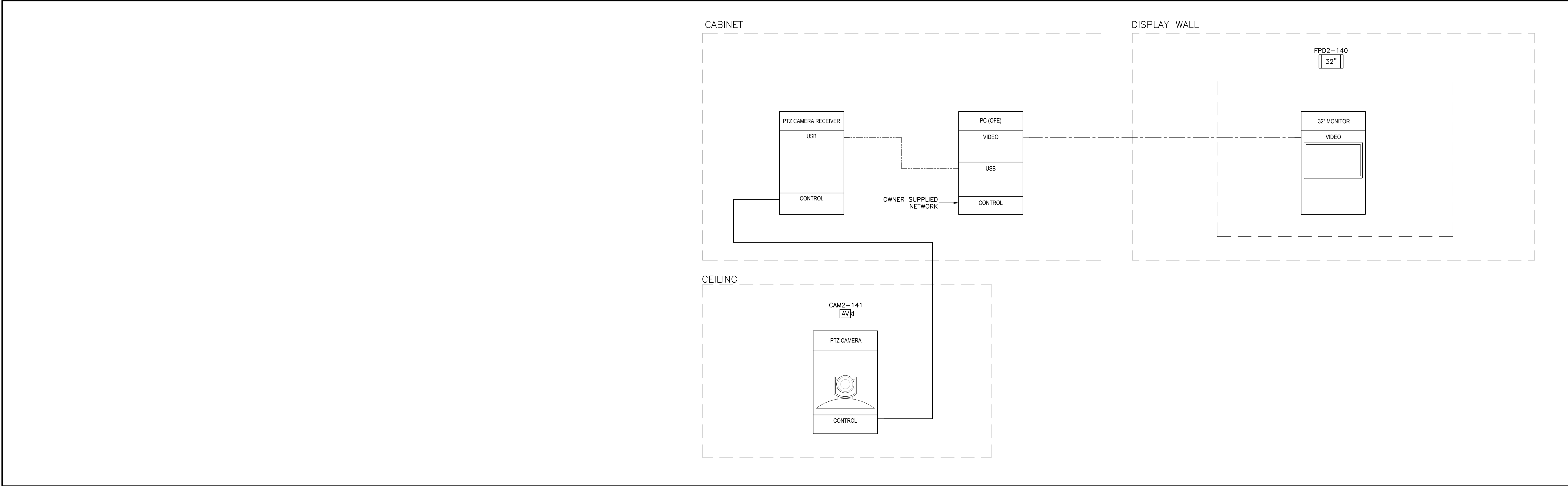
COPYRIGHT © BSN Architects, A Part of WF Group Inc.

SCALE :	NOTED	SHEET NO. :
DATE :		
PROJECT NO. :		
DRAWN BY :	S.R.	
CHECKED BY :	P.G.	

AV500

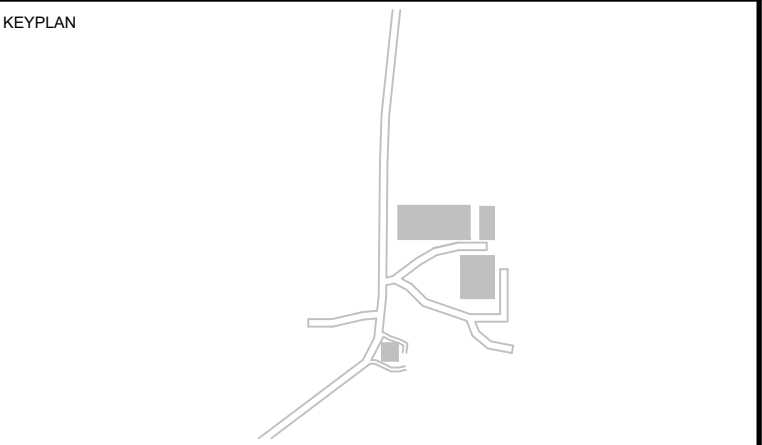


1 TYPE 2 - AV GRAD & FLEX SPACE OFFICES
TYPICAL SYSTEM FUNCTIONAL SCHEMATIC



2 TYPE 4 - FORENSIC GARAGE
TYPICAL SYSTEM FUNCTIONAL SCHEMATIC

LEGEND	
HDBaseT	-----
VIDEO	-----
AUDIO	-----
CONTROL	-----
USB	-----



No.	ISSUANCE	DATE
1	ISSUED FOR AV TENDER	2024/11/15

DISCLAIMER:
NOT FOR CONSTRUCTION



CLIENT

PROJECT

TITLE
AV FUNCTIONALS

architects
Baird Sampson Neuert

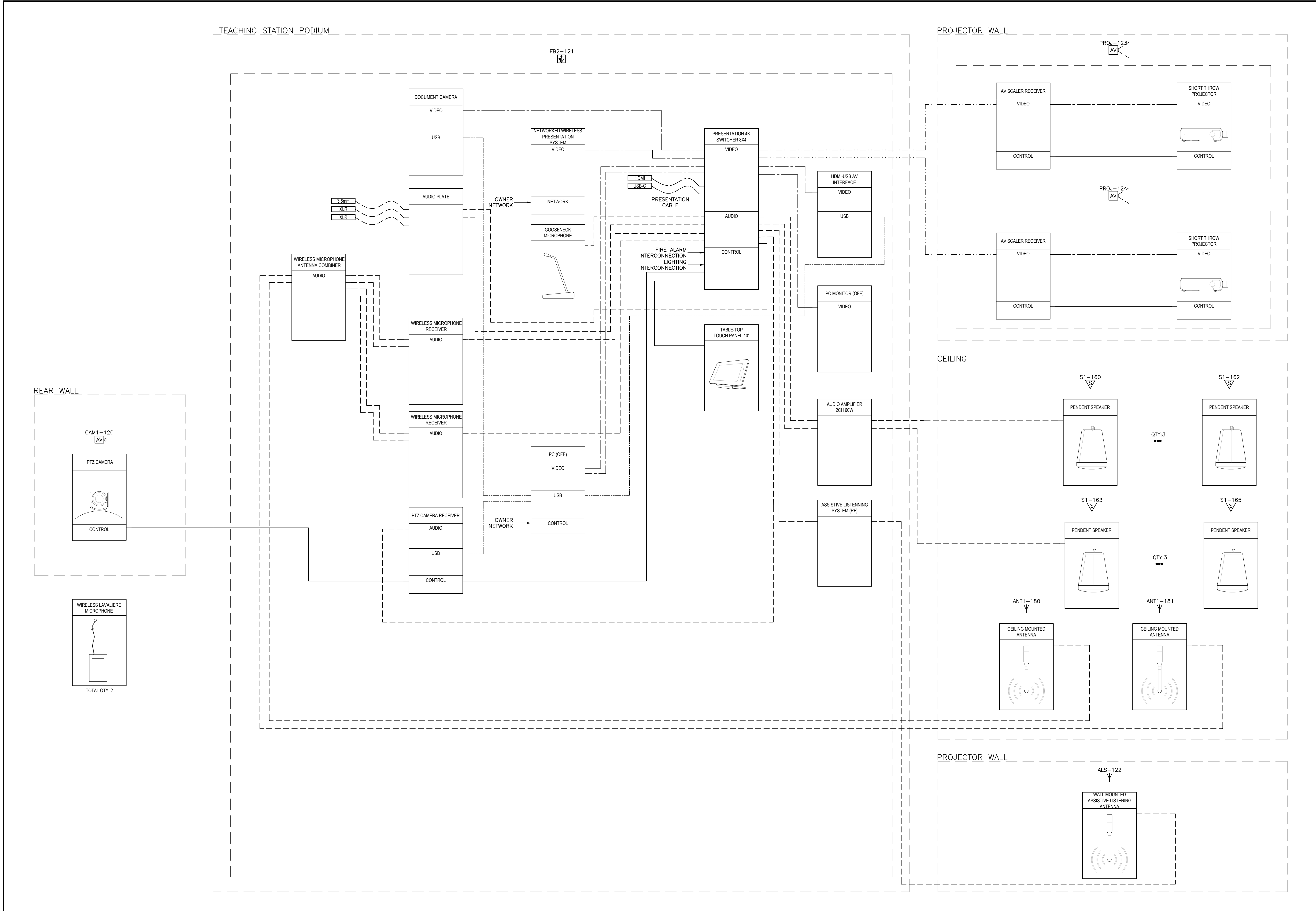
416.363.8877 bsnarchitects.com

REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, 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, A PART OF WF GROUP. - DO NOT SCALE THIS DRAWING -

COPYRIGHT © BSN Architects, A Part of WF Group Inc.

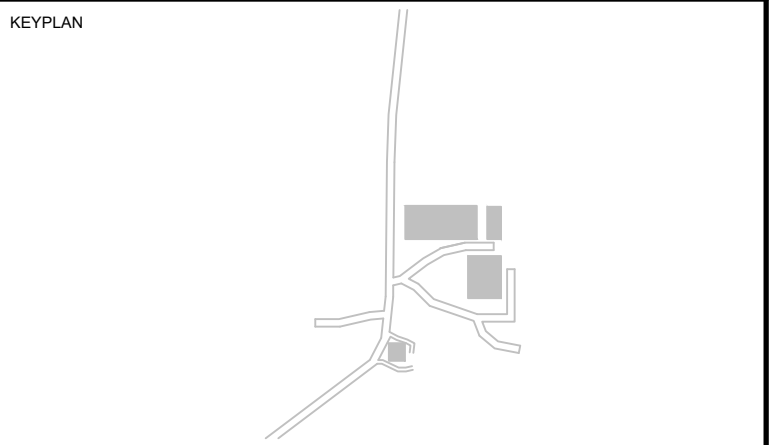
SCALE :	NOTED	SHEET NC :
DATE :		
PROJECT NO :		
DRAWN BY :	S.R.	
CHECKED BY :	P.G.	

AV501



1 TYPE 3 - FORENSIC TEACHING CLASSROOM
AV502 TYPICAL SYSTEM FUNCTIONAL SCHEMATIC

LEGEND	
HDBaseT	-----
VIDEO	-----
AUDIO	-----
CONTROL	-----
USB	-----



No.	ISSUANCE	DATE
1	ISSUED FOR AV TENDER	2024/11/15

DISCLAIMER:
NOT FOR CONSTRUCTION



CLIENT

PROJECT

TITLE
AV FUNCTIONALS

architects
Baird Sampson Neuert

416.363.8877 bsnarchitects.com

REPRODUCTION OR DISTRIBUTION FOR PURPOSES OTHER THAN AUTHORIZED BY BSN ARCHITECTS, A PART OF WF GROUP, 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, A PART OF WF GROUP. DO NOT SCALE THIS DRAWING.

COPYRIGHT © BSN Architects, A Part of WF Group Inc.

SCALE :	NOTED	SHEET NC :
DATE :		
PROJECT NO :		
DRAWN BY :	S.R.	
CHECKED BY :	P.G.	

AV502