

CEILING DEMOLITION LEGEND

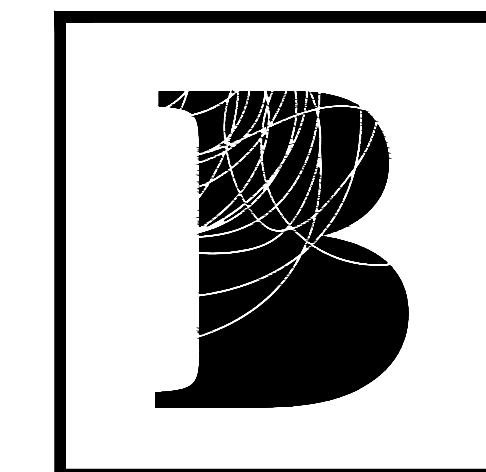
SYMBOL	DESCRIPTION
	DENOTES EXISTING BASE BUILDING STANDARD LUMINAIRES TO BE REMOVED AND/OR RELOCATED.
	DENOTES EXISTING RECESSED DOWN LIGHT TO BE REMOVED AND/OR RELOCATED.
	DENOTES EXISTING UNDER CABINET STRIP LIGHTING TO BE REMOVED AND/OR RELOCATED.
	DENOTES EXISTING OPERABLE PARTITION AND SYSTEM TO BE REMOVED.
	EXISTING CEILING TILES TO REMAIN. CONTRACTOR TO REPLACE IF DAMAGED OR STAINED.
	EXISTING GWB BULKHEAD TO REMAIN.
	AREA NOT IN CONTRACT (NIC)

DRAWING NOTES

SYMBOL	DESCRIPTION
NOTE 1	REMOVE EXISTING SOUND MASKING EQUIPMENT FROM LARGE MEETING ROOM 1003.
NOTE 2	REMOVE AND REPLACE EXISTING T-BAR CEILING WHERE MOVABLE WALL INFRASTRUCTURE IS REMOVED.

DEMOLITION NOTES

- THIS DRAWINGS & NOTES TO BE READ IN CONJUNCTION WITH GENERAL NOTES, REFER TO DRAWING #1000.
- THE ENTIRE DRAWING PACKAGE TO BE REFERENCED AND REVIEWED AS A WHOLE.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH MECHANICAL AND ELECTRICAL ENGINEER'S DRAWINGS AND SPECIFICATIONS.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL CONSTRUCTION SPECIFICATIONS AND DOCUMENTS.
- WHERE DEMOLISHED PARTITIONS PENETRATED SUSPENDED T-BAR CEILING GRID, REPAIRS SHALL BE MADE TO MAKE GOOD A CONTINUOUS CEILING GRID.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE GOOD ALL AREAS AFFECTED BY DEMOLITION.
- DEMOLITION AND NEW CONSTRUCTION SHALL BE DONE IN PHASES AS REQUIRED. DURING EACH PHASE, THE AREA UNDER CONSTRUCTION SHALL BE COMPLETELY SEALED OFF, MAINTAINING EXIST WITHIN ACCORDANCE WITH BUILDING CODE.
- THE CONTRACTOR SHALL SALVAGE ALL ELEMENTS OF THE BASE BUILDING, SUCH AS (BUT NOT LIMITED TO) CEILING COMPONENTS, LIGHT FIXTURES, SPEAKERS, ETC. ALL ELEMENTS REMAIN THE PROPERTY OF AND SHALL BE TURNED OVER TO THE LANDLORD/CLIENT AND STORED WHERE DIRECTED UNLESS SCHEDULED FOR REUSE AND/OR SHOWN TO BE REMOVED AND RELOCATED UNDER THIS CONTRACT.
- ALL DEBRIS AND MATERIALS RESULTING FROM THE DEMOLITION AND NOT CLAIMED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PREMISES AND BE LEGALLY DISPOSED OF.
- EXISTING CEILING TILES AND FIXTURES ARE TO BE REMOVED AND SALVAGED FOR REUSE. NEW TILES AS REQUIRED TO MATCH. ALL DISCOLOURED TILES TO BE SEGREGATED IN SPECIFIC AREAS TO ACHIEVE AN EVEN COLOUR WITHIN ONE AREA. REFER TO REFLECTED CEILING PLAN I-1002.
- CONFIRM THAT DEMOLITION DRAWINGS ACCURATELY REFLECT THE EXTENT OF ABOVE CEILING GWB BAFFLING TO BE REMOVED AND REMOVE ANY REDUNDANT BAFFLES ABOVE THE CEILING.
- THE CONTRACTOR IS TO BE RESPONSIBLE FOR ALL DAMAGES TO FINISHES, SURFACES, MATERIALS ETC., DUE TO WORK PERFORMED UNDER THIS CONTRACT AND BEARS ALL COSTS INCURRED TO MAKE GOOD, REPAIR OR REPLACE SAME TO DESIGNER'S SATISFACTION.
- THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD, PROPER AND SAFE MEANS OF FIRE EXIT SHALL BE PROVIDED FROM ALL ZONES OF THE BUILDING AT ALL TIMES TO THE APPROVAL OF THE AUTHORITIES HAVING JURISDICTION.
- PROTECT EXISTING PERIMETER WINDOW BLINDS DURING CONSTRUCTION BY SUITABLE METHODS TO THE APPROVAL OF THE LANDLORD/TENANT AND THOROUGHLY CLEAN BLINDS UPON COMPLETION OF WORK. IF NO PRACTICAL MEANS OF PROTECTION CAN BE FOUND, THE CONTRACTOR SHALL REMOVE THE EXISTING BLINDS AND STORE WHERE DIRECTED AND REINSTALL WHEN CONSTRUCTION IS COMPLETE.
- CONTRACTOR TO CONTACT VIKING RECYCLING TO COORDINATE RECLAMATION OF DEMOLISHED CONSTRUCTION MATERIALS SUCH AS BUT NOT LIMITED TO CEILING TILES AND LIGHTING. CONTACT VIKING RECYCLING, KELLY MC CAIG @ 416.452.7873 OR KELLY@VIKINGRECYCLING.CA.



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 bennettdesign.ca

GENERAL NOTES

- THIS DRAWING IS THE PROPERTY OF BENNETT DESIGN ASSOCIATES INC. AND CANNOT BE REPRODUCED WITHOUT WRITTEN PERMISSION.
- ALL MEASUREMENTS MUST BE VERIFIED ON SITE BY CONTRACTOR AND REPORT ANY DISCREPANCIES TO BENNETT DESIGN ASSOCIATES INC. BEFORE PROCEEDING WITH THE WORK.
- DO NOT SCALE DRAWINGS.

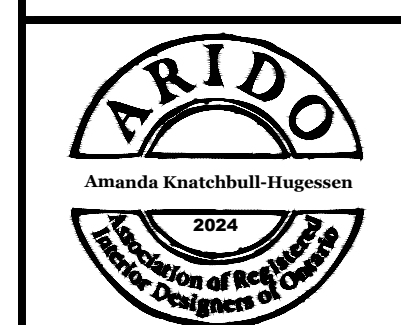
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REVISIONS

no.	date	by	description
04	16AUG24	AH	ISSUED FOR TENDER
03	13AUG24	AH	ISSUED FOR PERMIT
02	08AUG24	AH	ISSUED FOR 90% REVIEW
01	08JUL24	AH	ISSUED FOR COORDINATION

no. date by description

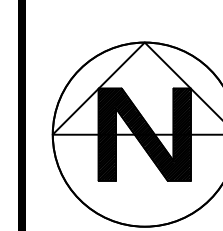
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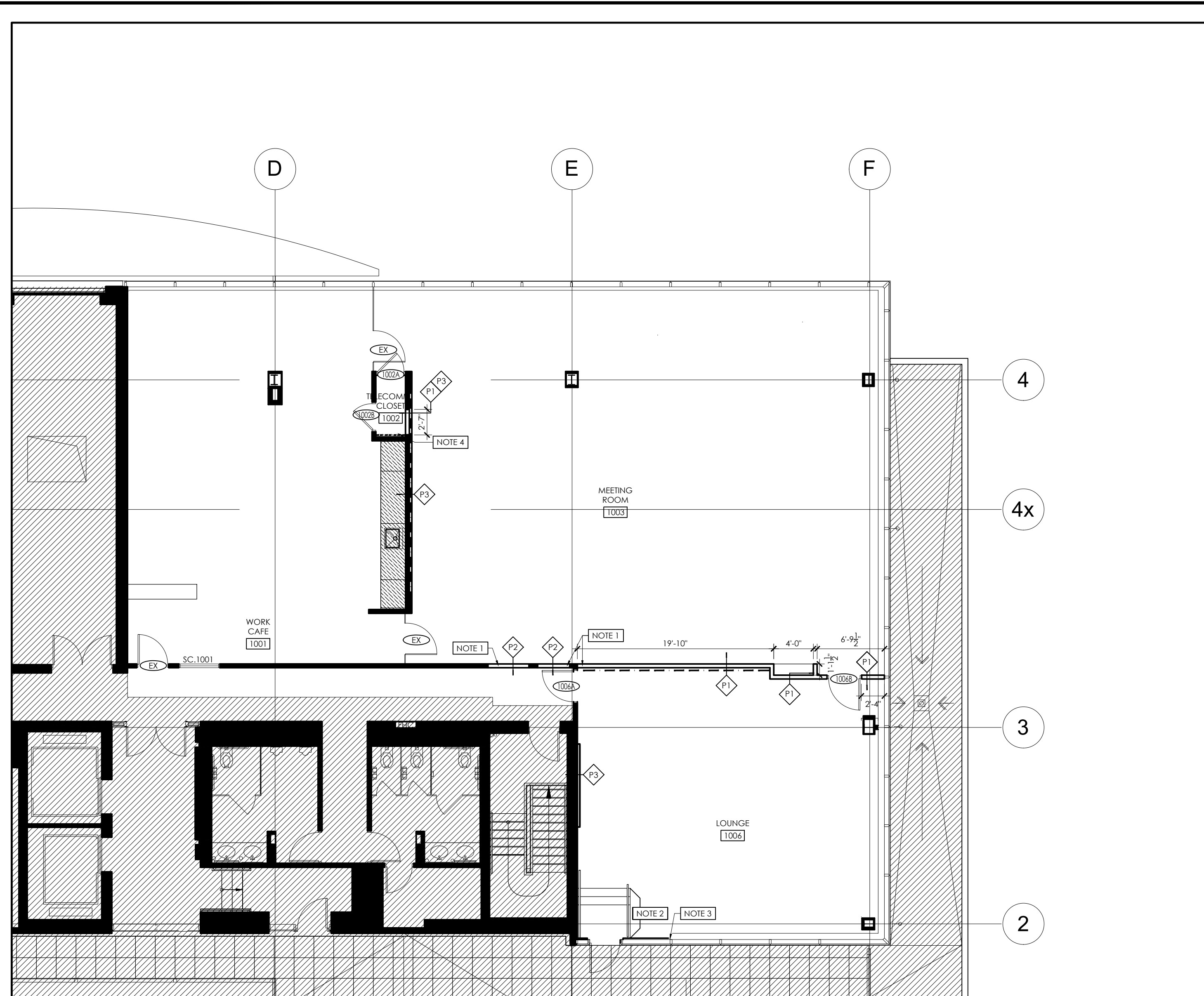


Project title
MPAC
 1340 PICKERING PKWY
 10TH FLOOR
 PICKERING, ON

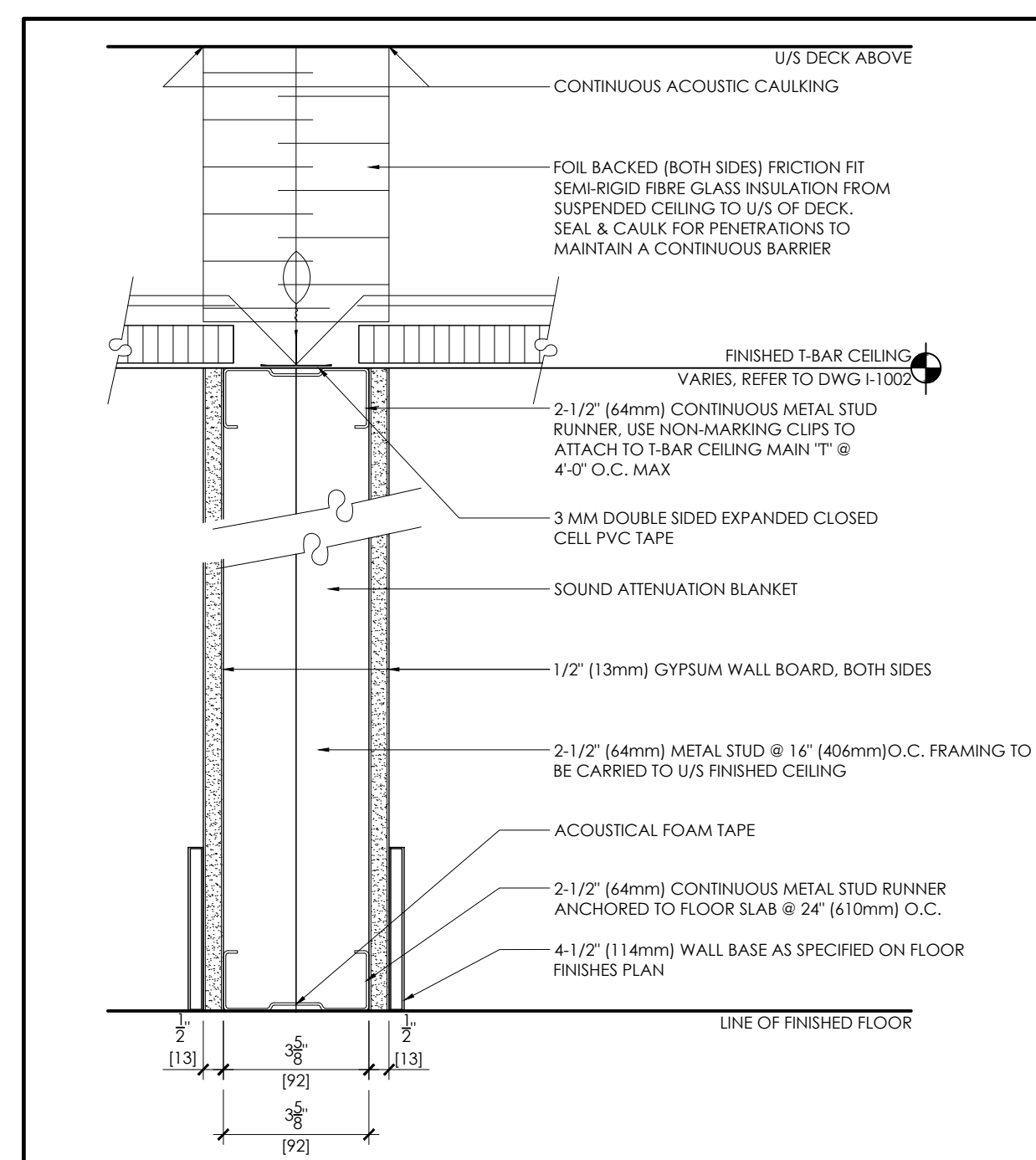
Drawing title
**REFLECTED CEILING
 DEMOLITION PLAN**

date	22APR24	project no.	24-1008
drawn by	JC	cod file:	24-1008_1-1000
checked by	AH	drawing no.	
scale	1/8" = 1'-0"		I-1000.1

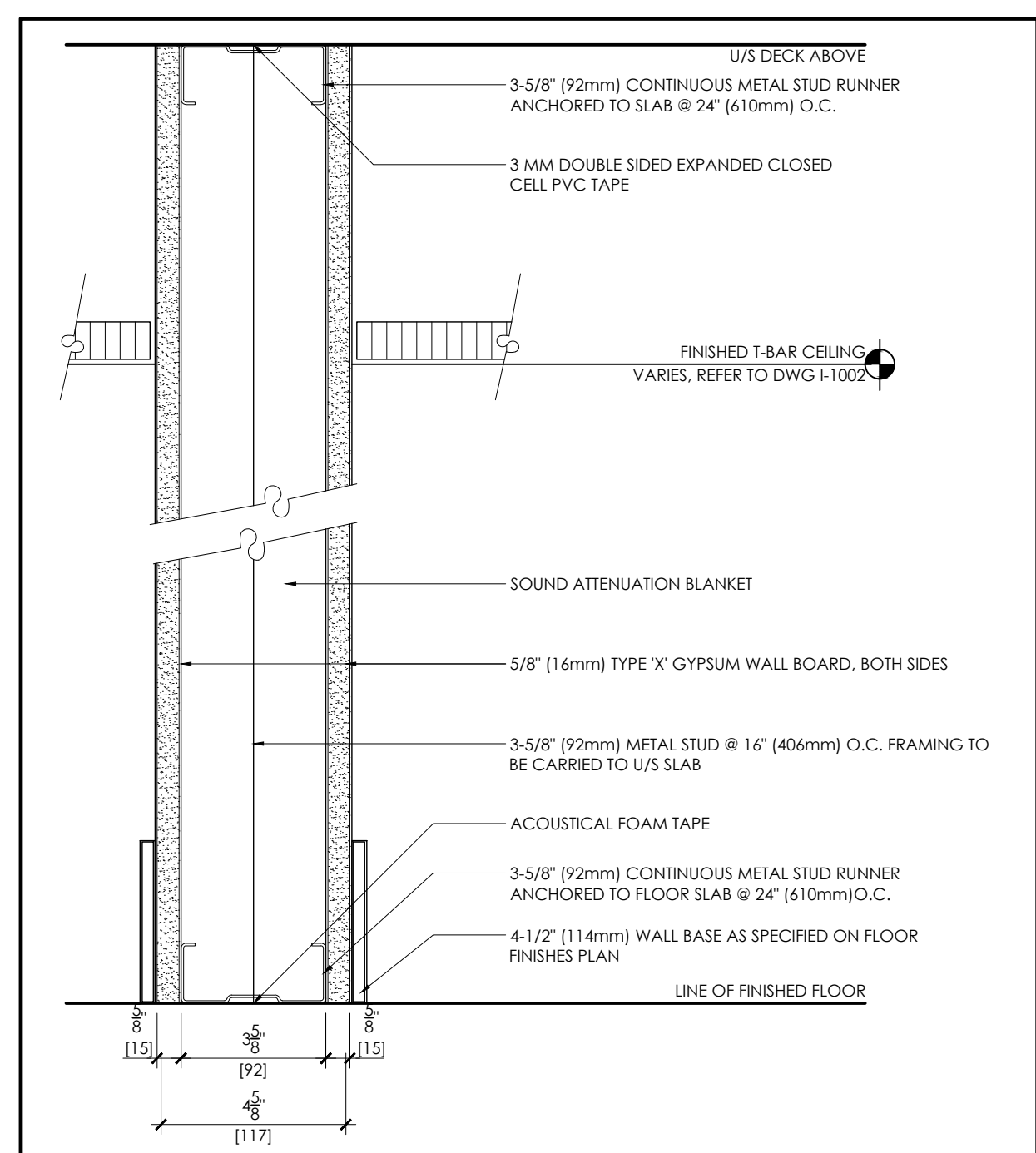




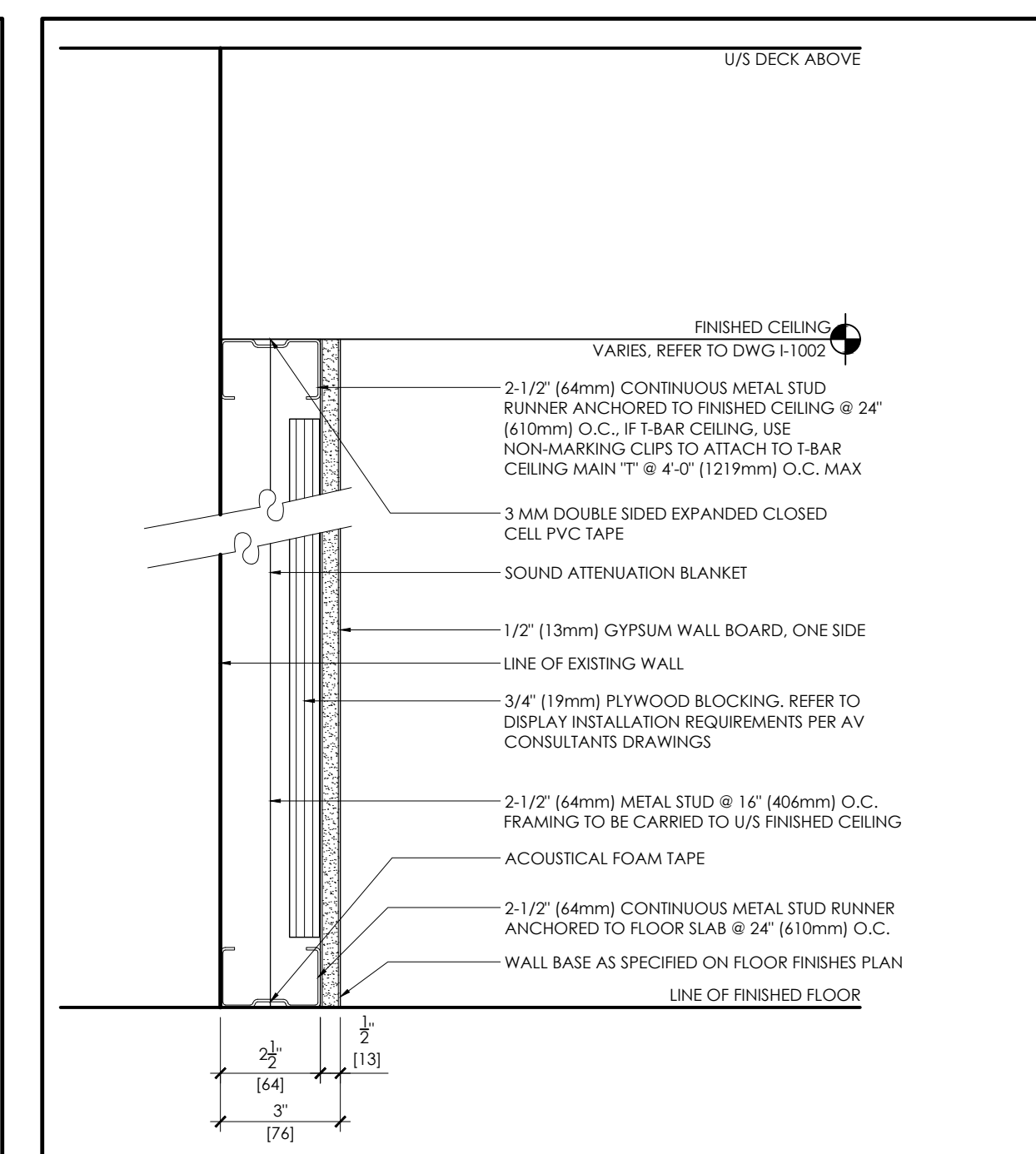
1 PARTITION PLAN
1/8" = 1'-0"



2 PARTITION TYPE 'P1'
3" = 1'-0"



3 PARTITION TYPE 'P2'
3" = 1'-0"



4 PARTITION TYPE 'P3'
3" = 1'-0"

PARTITION LEGEND

SYMBOL	DETAIL	DESCRIPTION
---		DENOTES EXISTING PARTITION TO REMAIN
⊥	2 (1/001)	NEW PARTITION ASSEMBLY 'P1' - 3-5/8" METAL STUDS AT 16" O.C. - ONE LAYER 1/2" BOTH SIDES - SOUND ATTENUATION BLANKET - SLAB TO U/S OF CEILING - FOIL BACKED (BOTH SIDES) RIGID INSULATION ABOVE CEILING TO U/S OF DECK (CERTAPRO THERMAL FOIL FACED BATTS BY CERTANTEED CORP. OR EQUAL)
⊥	3 (1/001)	NEW PARTITION ASSEMBLY 'P2' DENISING PARTITION - 3-5/8" METAL STUDS AT 16" O.C. (U.S.A.C.) - ONE LAYER 5/8" TYPE 'X' GWB, BOTH SIDES - SOUND ATTENUATION BLANKET - SLAB TO SLAB - TO MATCH EXISTING -# MIN F.R.R PARTITION NOTES: EXISTING CONSTRUCTION TO BE VERIFIED PRIOR TO CONSTRUCTION
⊥	4 (1/001)	NEW FURRING PARTITION ASSEMBLY 'P3' - 2-1/2" METAL STUDS AT 16" O.C. - ONE LAYER 1/2" ONE SIDE - SLAB TO U/S OF CEILING - BLOCKING REQUIRED FOR MOUNTED DISPLAYS, CONTRACTOR TO REFER TO INSTALLATION REQUIREMENTS AS PER AV CONSULTANTS SPECIFICATIONS
⊥		EXISTING DOOR & FRAME TO REMAIN
⊥		NEW DOOR & FRAME REFER TO DOOR SCHEDULE I-1007 PROVIDE DOOR HEADERS AS REQUIRED FOR ALL DOORS NOT FULL HEIGHT
⊥		NEW GLAZING ASSEMBLY REFER TO SCREEN SCHEDULE I-1007 GLAZING C/W VISION STRIP: 3M FILM, DUSTED CRYSTAL - 7725SE-314 CONTACT:
---		DENOTES NEW MILLWORK, REFER TO I-1008.
---		DENOTES BLOCKING INSIDE NEW PARTITIONS FOR WALL MOUNTED FIXTURES, DISPLAY SCREENS AND SIGNAGE.
FE		FIRE EXTINGUISHER
FHC		FIRE HOSE CABINET
JSM		JOB SITE MEASUREMENT
AFF		ABOVE FINISHED FLOOR
CCD		CRITICAL CLEAR DIMENSION
---		AREA NOT IN CONTRACT (NIC)

REFER TO FURNITURE PLAN I-1006 FOR LOCATION WHITEBOARDS, TV'S ETC.

DRAWING NOTES

SYMBOL	DESCRIPTION
NOTE 1	ALIGN FINISHED FACE OF WALL WITH EXISTING (BOTH CORRIDOR AND WITHIN SUITE).
NOTE 2	CONTRACTOR TO APPLY GWB ON SIDES OF EXISTING STAIRS. REFER TO ELEVATION XA-100X.
NOTE 3	CONTRACTOR TO PATCH AND REPAIR PARTITION, MAKE READY TO ACCEPT NEW FINISH.
NOTE 4	ADHERE PLYWOOD BACKER BOARD TO EXISTING WALL COORDINATE SIDE OF BACKER BOARD WITH AV GROUP DRAWING

PARTITION NOTES

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- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL CONSTRUCTION SPECIFICATIONS AND DOCUMENTS.
- THE CONTRACTOR IS TO READ REFLECTED CEILING PLAN I-1002 IN CONJUNCTION WITH PARTITION PLAN TO ESTABLISH EXACT LOCATION OF PARTITIONS.
- REFER TO REFLECTED CEILING PLAN DRAWING I-1002 FOR DRYWALL CEILING AND FLUSH (MUD-IN) LIGHT FIXTURE DETAILS.
- REFER TO ELECTRICAL AND MECHANICAL ENGINEER'S DRAWINGS FOR FURTHER SPECIFICATIONS. DISCREPANCIES BETWEEN THE DESIGNERS' AND ENGINEERS' DRAWINGS ARE TO BE REPORTED TO THE DESIGNER IN WRITING.
- THE CONTRACTOR IS TO COORDINATE WITH THE TENANT'S CABLING CONSULTANTS. REFER TO DRAWING I-1003.
- THE CONTRACTOR IS TO CHECK ALL SITE CONDITIONS PRIOR TO SUBMITTING QUOTATION.
- THE CONTRACTOR IS TO VERIFY ALL JOB DIMENSIONS, ALL DRAWING DETAILS, ALL SPECIFICATIONS, AND REPORT ANY DISCREPANCIES IN WRITING TO THE DESIGNER PRIOR TO INSTALLATION.
- ALL TEMPORARY BUILDING SHUTDOWNS ARE TO BE COORDINATED BY THE CONTRACTOR WITH LANDLORD.
- FINAL CLEANING SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR INCLUDING CLEANING OF FLOORS, WALLS, CONVECTORS, BLINDS, ALL GLAZING AND CEILING, PROFESSIONALLY STEAM CLEAN OF CARPET AND WAXING OF HARD SURFACES.
- PRIOR TO FABRICATION AND ORDERING OF MATERIALS, THE CONTRACTOR IS TO SUBMIT SHOP DRAWINGS TO THE DESIGNER FOR APPROVAL OF ALL MILLWORK ITEMS, DOOR ASSEMBLIES & HARDWARE AND WASHROOM FIXTURES & ACCESSORIES.
- THE CONTRACTOR IS TO PROVIDE ELEVATOR CAB BLANKET PROTECTION AND FLOORING PROTECTION DURING CONSTRUCTION PERIOD.
- ALL PARTITIONS TO BE MARKED ON THE FLOOR AND APPROVED BY DESIGNER PRIOR TO INSTALLATION OF STUDS.
- THE CONTRACTOR IS TO MAKE GOOD ALL FLOORS, BASES, WALLS, CORE PARTITIONS, COLUMNS AND CEILINGS SUITABLE TO ACCEPT NEW FINISHES OR MATERIALS. THE CONTRACTOR IS TO VISIT SITE TO EVALUATE EXTENT OF WORK PRIOR TO BID SUBMISSION.
- WHERE NEW WORK CONNECTS WITH EXISTING AND/OR WHERE EXISTING WORK IS ALTERED, ENSURE NECESSARY CUTTING, FITTING AND TIE-IN'S REQUIRED TO BE SATISFACTORY AND PERFORMED UNDER THIS CONTRACT.
- PROVIDE WOOD BLOCKING WHERE NECESSARY WITHIN PARTITIONS AND WITHIN CEILING SPACE WHEREVER SHELVING, CABINETS, TV'S, WHITEBOARDS, EQUIPMENT OR WALL AND CEILING FIXTURES AND ACCESSORIES MAY GO.
- THE CONTRACTOR IS TO CONSULT WITH MECHANICAL CONSULTANT TO ENSURE READY ACCESS FOR MAINTENANCE TO ALL MECHANICAL UNITS BEFORE NEW PARTITIONS AND CEILINGS ARE ERECTED AND INSTALLED.
- SOUND ATTENUATION BLANKET IN PARTITIONS TO BE CONTINUOUS BEHIND ALL POWER AND COMMUNICATION WALL OUTLETS AND ACROSS DOOR/WINDOW HEADERS WITHOUT INTERRUPTION TO PREVENT SOUND TRANSFER.
- MAINTAIN CONTINUOUS SOUND ATTENUATION AT PERIMETER CONVECTOR UNIT CAVITIES AND AT SOUND ATTENUATED PARTITION CONNECTIONS.
- COMPLETE INSTALLATION TO BE SMOOTH, LEVEL OR PLUMB, FREE FROM WAVES AND OTHER DEFECTS AND READY TO ACCEPT SPECIFIED FINISH.
- ALL WOOD SOLIDS AND VENEERS TO BE FIRE TREATED AS NECESSARY TO MEET BUILDING CODE REQUIREMENTS.
- ALL EXPOSED EDGES OF GWB TO BE TRIMMED WITH J-MOULD OR CORNER BEAD OR AS OTHERWISE DETAILED.
- DO NOT APPLY GWB UNTIL BUCKS, ANCHORS AND BLOCKING, ELECTRICAL AND MECHANICAL WORK HAVE BEEN INSPECTED AND APPROVED BY DESIGNER.
- MAINTAIN REQUIRED FIRE RATING AROUND MECHANICAL AND ELECTRICAL EQUIPMENT AND OTHER PENETRATIONS AT ALL TIMES.
- ERECT ACCESSORIES STRAIGHT, PLUMB OR LEVEL, RIGID AND AT THE PROPER PLANE.
- PARTITIONS NOT DIMENSIONED ARE TO BE TYPICALLY LOCATED ON THE CENTER OF THE CEILING GRID.
- DIMENSIONS FOR NEW PARTITIONS ARE TO BE ESTABLISHED FROM THE CENTERLINE OR FINISHED FACE, UNLESS OTHERWISE NOTED.
- ENSURE THAT ALL OPENINGS FOR GLAZING ARE SQUARE AND SOLID FOR RECEIVING GLASS OR GLAZING FRAMES. REFER TO DOOR & SCREEN SCHEDULE FOR DETAILS.
- WHERE MULTIPLE GLAZING PANELS ARE SHOWN, ALL SECTIONS TO BE EQUAL, UNLESS NOTED OTHERWISE. REFER TO DOOR & SCREEN SCHEDULE FOR DETAILS.
- UNLESS NOTED OTHERWISE, PARTITIONS SHOWN ON WINDOW MULLIONS TO BE INSTALLED CENTERED ON WINDOW MULLIONS. CAULKING FOR SOUND ATTENUATION TO BE PROVIDED FROM FLOOR TO CEILING.
- WHERE NEW PARTITIONS MEET A WINDOW MULLION, CLEANLY BUILD USING LANDLORD APPROVED FINISH DETAILS.
- FILLER PANELS TO BE PROVIDED BETWEEN COLUMNS AND MULLIONS AS REQUIRED.
- WHERE EXISTING PARTITIONS ARE TO BE PAINTED AND/OR RECEIVE NEW WALLCOVERING, REMOVE EXISTING WALL FINISH, FILL AND SAND AS REQUIRED.
- PROVIDE DOUBLE SIDED FOAM ACOUSTICAL TAPE OR GASKET WHERE PARTITIONS MEET WITH CORE WALLS, COLUMNS, CONVECTORS, COVERS, SLAB AND CEILING.
- ALL DOORS TO BE 6" AWAY FROM PARTITIONS ON HINGED SIDE OF DOOR UNLESS NOTED OTHERWISE.
- UNDERCUT DOORS TO ALLOW FOR 1/8" CLEARANCE ABOVE FINISHED FLOOR WHERE REQUIRED.
- WHERE STRUCTURAL MEMBERS PENETRATE FULL HEIGHT PARTITIONS, PROVIDE ACOUSTICAL SEAL AND FINISH OPENING TO BE APPROVED BY LANDLORD/OWNER.
- PLUMBING FIXTURES TO BE AS SPECIFIED WITH THE REQUIRED SUPPORT, ACCESSORIES AND ALL DRAINAGE VENT AND WATER CONNECTIONS AS REQUIRED. REFER TO ENGINEERING DRAWINGS.
- REFER TO POWER & COMMUNICATIONS DRAWING I-1003 FOR LOCATIONS OF NEW OUTLETS AND CONDUITS. ALLOW FOR CUTTING AND PATCHING OF ON EXISTING PERIMETER WALLS.
- DESIGNER TO APPROVE ACCESS PANEL LOCATION(S) PRIOR TO INSTALLATION.
- REFER TO I-1004 FOR WALL BASE DETAILS.



GENERAL NOTES

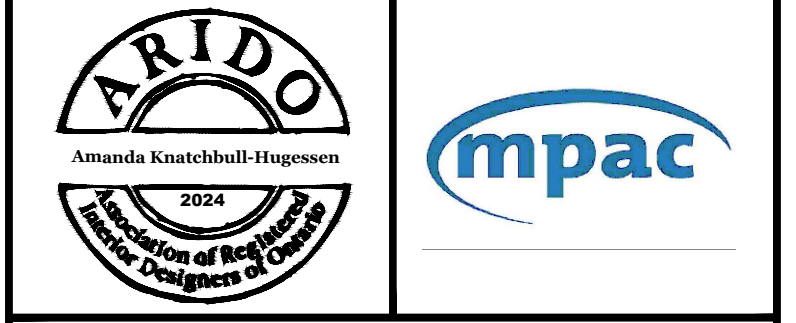
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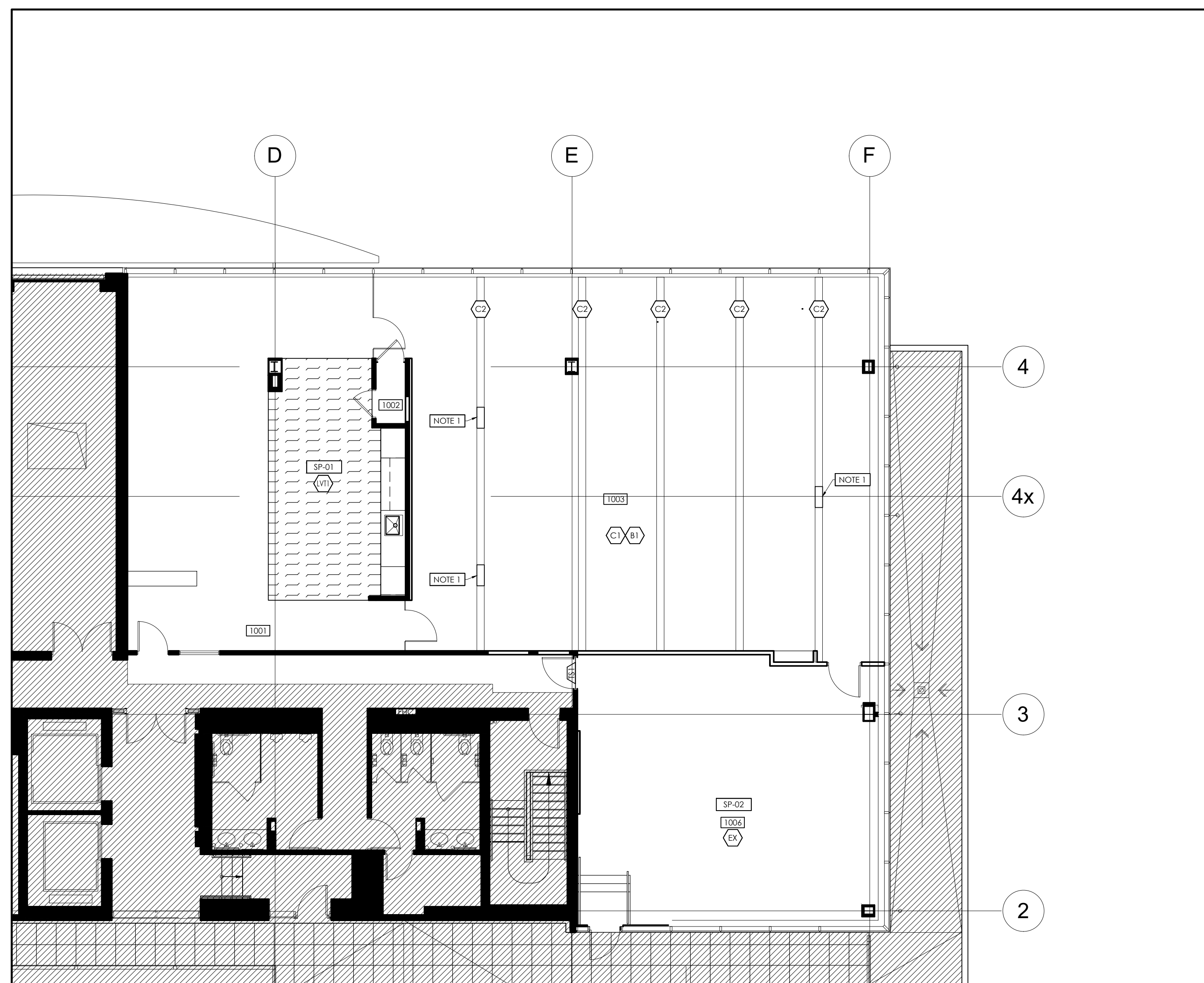
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MPAC
1340 PICKERING PKWY
10TH FLOOR
PICKERING, ON

PARTITION PLAN

date	project no.
22APR24	24-1008
drawn by JC	cad file 24-1008_1-1001
checked by AH	drawing no.
scale 1/8"=1'-0"	I-1001



FLOOR FINISH LEGEND

SYMBOL	DESCRIPTION
	DENOTES EXISTING PARTITION TO REMAIN
	DENOTES NEW PARTITION
	CARPET TILE - FIELD: C1 (SEPARATE PRICE ITEM SP-02) MANUFACTURER: SHAW CONTRACT SERIES: BASALT I COLOUR: SLATE 98481 SIZE: 9' X 36" INSTALL METHOD: BRICK SUPPLIER/TEL: BRETT VAN PELT / 416.938.6712 / brett.van.pelt@shawcontract.com
	CARPET TILE - ACCENT: C2 MANUFACTURER: SHAW CONTRACT SERIES: SUSPEND TILE COLOUR: DEEP SKY 88485 SIZE: 9' X 36" INSTALL METHOD: MONOLITHIC SUPPLIER/TEL: BRETT VAN PELT / 416.938.6712 / brett.van.pelt@shawcontract.com
	LUXURY VINYL TILE: LV1 (SEPARATE PRICE ITEM SP-01) MANUFACTURER: TARKETT SERIES: EVENT - WOOD COLOUR: PACIFIC WALNUT - PECF 11218 NG SIZE: 48" X 6" PLANK INSTALL METHOD: UNID-DIRECTIONAL SUPPLIER/TEL: VICTORIA KITELEY / 416.770.2319 / victoria.kiteley@tarkett.com
	AREA NOT IN CONTRACT (NIC)

BASE TYPE LEGEND

SYMBOL	DESCRIPTION
	VINYL WALL BASE: B1 (SEPARATE PRICE ITEM SP-02) MANUFACTURER: TARKETT - JOHNSONITE SERIES: MILLWORK - MONUMENT COLOUR: CHARCOAL - MW 2014 SIZE: 4" SUPPLIER/TEL: VICTORIA KITELEY / 416.770.2319 / victoria.kiteley@tarkett.com NOTES: TO BE PRICED AS PART OF SEPARATE PRICE ITEM SP-02. ONLY TO BE USED IN AREAS WHERE NEW 'C1' IS INSTALLED.

TRANSITION STRIP LEGEND

SYMBOL	DESCRIPTION
	TRANSITION STRIP: TS1 MANUFACTURER: TARKETT SERIES: COLOUR: CONDITION:

DRAWING NOTES

SYMBOL	DESCRIPTION
	EXISTING CARPET (OR 'C1') TO BE NOTCHED IN 'C2' CARPET WHERE DIMENSIONED.

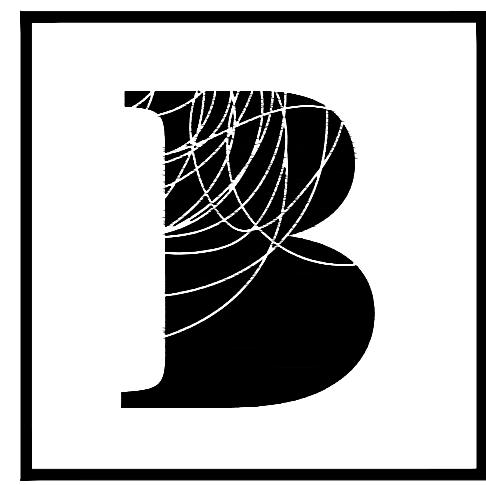
SEPARATE PRICE ITEMS

SYMBOL	DESCRIPTION
	SEPARATE PRICE - ITEM 1 CONTRACTOR TO PROVIDE PRICE TO INSTALL NEW LV1 AND LVT2 AT EXTENT SHOWN.
	SEPARATE PRICE - ITEM 2 CONTRACTOR TO PROVIDE PRICE TO REMOVE EXISTING CARPET FINISH AND BASE AT EXTENT SHOWN. REPLACE EXISTING CARPET WITH C-1 AND C-2 ACCENTS AS SHOWN.

REFER TO I-000 FOR COMPLETE SEPARATE PRICING LIST

FLOOR FINISH NOTES

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- THIS DRAWING TO BE READ IN CONJUNCTION WITH MECHANICAL AND ELECTRICAL ENGINEER'S DRAWINGS AND SPECIFICATIONS.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL CONSTRUCTION SPECIFICATIONS AND DOCUMENTS.
- THE CONTRACTOR IS TO MAKE GOOD ALL AREAS TO RECEIVE NEW FLOOR FINISHES.
- ALL MATERIALS SPECIFIED ARE TO BE SUPPLIED BY THE GENERAL CONTRACTOR UNLESS NOTED OTHERWISE.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL FLOOR FINISH SPECIFICATIONS, EXECUTION AND INSTALLATION GUIDES PROVIDED IN MANUFACTURER'S DOCUMENTATION.
- CONCRETE SLAB TO BE CLEAN, SOUND AND LEVEL PRIOR TO INSTALLATION OF FLOOR FINISHES - CRACKS TO BE FIELDED, OLD GLUE TO BE REMOVED, THE CONTRACTOR IS TO LIFT AND DISPOSE OF OLD CARPET AND BASE AND DISPOSE OF RESPONSIBLY. REFER TO DEMOLITION PLAN #I-000.
- SURFACES TO RECEIVE NEW CARPET SHALL BE DRY, CLEAN AND FREE OF RIDGES AND DUST. THE CONTRACTOR IS TO ENSURE THAT THE NEW CARPET IS VACUUMED UPON COMPLETION OF INSTALLATION.
- INSTALL CARPET AFTER ALL FINISHING TRADES HAVE COMPLETED THEIR WORK, EXCEPT WHERE CARPET EXTENDS UNDER PARTITIONS.
- WHERE CARPET IS JOINED OR TERMINATED AT DOORWAYS, LOCATE THE SEAM OR TERMINATION UNDER DOORS IN ITS CLOSED POSITION. PROVIDE SEAMING PLAN INDICATING SEAM LOCATIONS (AWAY FROM HIGH TRAFFIC AREAS) PRIOR TO ORDERING OF GOODS FOR DESIGNER'S APPROVAL. DIRECTION OF GRAIN TO BE CONSISTENT. NO CROSS SEAMS, SEAMS TO BE AS CONCEALED AS POSSIBLE.
- PROVIDE ALL SEAM WELDS AS REQUIRED TO COMPLETE THE WORK AS INDICATED ON DRAWINGS AND FINISH SCHEDULE IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- THE CONTRACTOR IS TO INSTALL ALL FLOOR FINISHES AS SPECIFIED AND AS PER MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS, OR CONTRACTOR WILL BE HELD RESPONSIBLE FOR FAULTY APPLICATION.
- THE CONTRACTOR IS TO COORDINATE INSTALLATION OF CARPET WITH INSTALLATION OF OTHER FLOOR AND BASE MATERIALS.
- ALL MATERIALS TO BE AS SPECIFIED OR EQUAL - ANY ALTERNATIVES ARE SUBJECT TO APPROVAL BY DESIGNER/CLIENT.
- INSTALLER TO ENSURE SMOOTH LEVEL TRANSITION BETWEEN DIFFERENT FLOORING.
- TILES TO BE LAID IN ONE DIRECTION TO OBTAIN UNIFORM EFFECT, ABRUPT VARIATION WILL NOT BE ACCEPTABLE.
- CONTRACTOR TO MOCK UP ALL FLOOR FINISH PATTERNS FOR DESIGNER'S/CLIENT'S REVIEW/APPROVAL PRIOR TO PERMANENT INSTALLATION.
- INSTALL EDGE STRIPS AT UNPROTECTED OR EXPOSED EDGES WHERE FLOORING TERMINATES.
- FLOOR FINISHES SHALL EXTEND UNDER ALL RADIATORS/CONVECTORS AND NEW MILLWORK UNITS.
- THE CONTRACTOR SHALL FEATHER FLOOR SLABS WHERE TILE AND CARPET MEET TO MAKE A SMOOTH LEVEL TRANSITION.
- NO BASE REQUIRED AT BRICK VENEER WALLS. INSTALL BASE AFTER CARPET INSTALLATION. EDGE OF BASE TO ALIGN WITH EDGE OF REVEAL AT DOOR/GLAZING FRAMES.
- PROTECT CARPET DURING CONSTRUCTION WITH 6 MIL POLYETHYLENE SHEETS, TAPED AT ALL SEAMS.
- CARPET CONTRACTOR TO NOTIFY DESIGNER IMMEDIATELY UPON FINDING ANY FLAWS OR DEFECTS IN CARPET, OR ANY OTHER FLOOR FINISHES.
- ALL MATERIALS TO HAVE FLAME SPREAD RATING IN ACCORDANCE WITH THE BUILDING CODE.
- THE CONTRACTOR IS TO ENSURE SAME DYE LOT WHEN ORDERING SPECIFIED FINISHES TO AVOID COLOR VARIANCE.
- CARPET CONTRACTOR IS TO PROVIDE BINDER BAR WHERE CARPET BUTTS VINYL TILE OR OTHER FLOORING. FINISH: XXXXXXXX.
- CARPET CONTRACTOR IS TO FOLLOW RECOMMENDED MANUFACTURER'S DIRECTIONS AND MATERIALS WHERE CARPET TILES WITH RELEASE GLUE ARE BEING USED.
- SHOP DRAWINGS FOR INSTALLATION OF RAISED FLOOR IS TO BE SUBMITTED TO DESIGNER FOR APPROVAL.
- WHERE A SHOWER IS SPECIFIED, CONCRETE FLOOR IS TO BE SLOPED TOWARD DRAIN.
- CONTRACTOR TO INSTALL WATERPROOF MEMBRANE, SCHRUTER OR EQUAL, WHERE SHOWERS ARE SPECIFIED. MEMBRANE TO ENCOMPASS ENTIRE SHOWER, INCLUDING WALLS. ALL SEAMS TO BE CLOSED WITH WATERPROOFING STRIPS. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- COORDINATE WITH THE CARPET MANUFACTURER AND THE OWNER FOR FINAL QUANTITY REQUIREMENTS AND DELIVERY OF FLOOR FINISHES TO COMPLY WITH THE CONSTRUCTION SCHEDULE.
- CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES TO SURFACES, FINISHES AND MATERIALS DUE TO THE WORK UNDER THIS CONTRACT AND WILL BEAR ALL COSTS INCURRED TO MAKE GOOD, REPAIR OR REPLACE SAME TO DESIGNER'S SATISFACTION.
- SUBMIT 3 PIECES MINIMUM 8" X 8" OF EACH TYPE OF FLOOR FINISH FOR DESIGNER'S REVIEW.
- REMOVE EXCESS ADHESIVE FROM VINYL FLOOR, BASE AND WALL SURFACE WITHOUT DAMAGE. CLEAN, SEAL, WAX FLOOR AND BASE SURFACES TO FLOORING MANUFACTURER'S INSTRUCTION.
- INTERIOR FINISHES TO COMPLY WITH MAXIMUM THICKNESS, FLAME SPREAD RATINGS AND SMOKE DEVELOPED CLASSIFICATIONS AS IDENTIFIED IN SUBSECTIONS 3.1.5, 3.1.12, AND 3.1.13 OF DIVISION 8 OF 2012 OBC, INCLUDING BEING BASED ON TRIPLICATE TESTING TO CAN/ULC 5102 OR CAN/ULC 5102.2 AS APPLICABLE. SUBMIT DOCUMENTATION TO BUILDING INSPECTOR UPON REQUEST.



BENNETT
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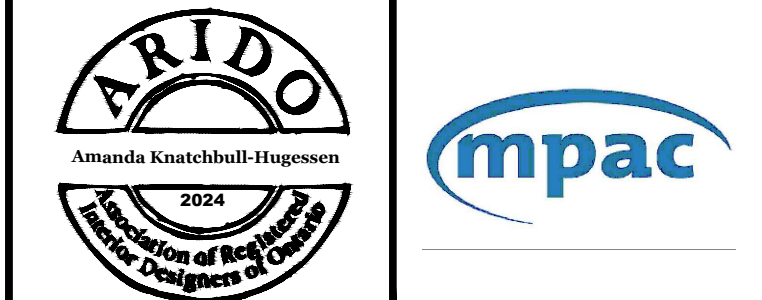
GENERAL NOTES

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- DO NOT SCALE DRAWINGS.

no.	date	by	description

no.	date	by	description

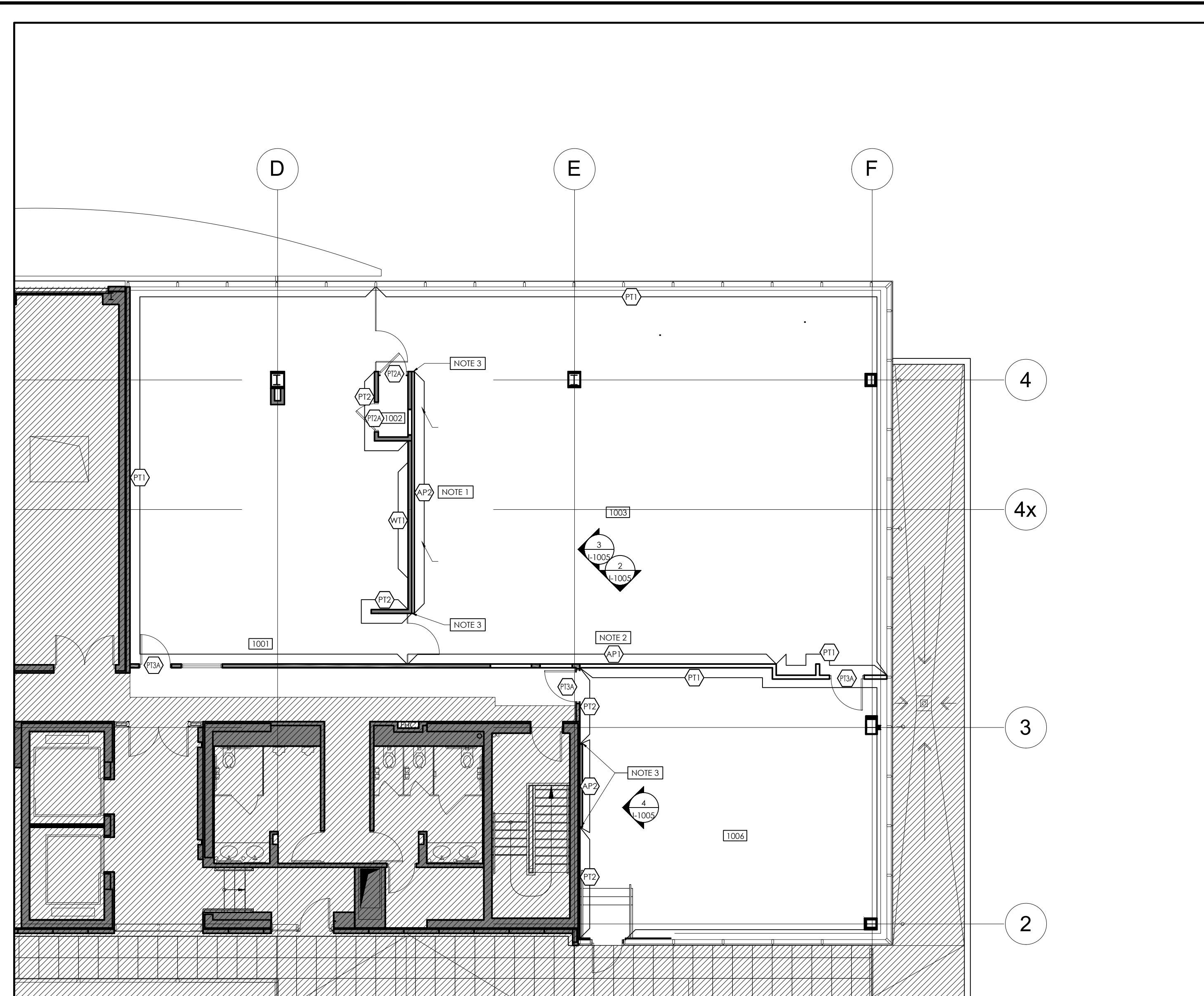
no.	date	by	description
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02	13AUG24	AH	ISSUED FOR PERMIT
01	08AUG24	AH	ISSUED FOR 90% REVIEW



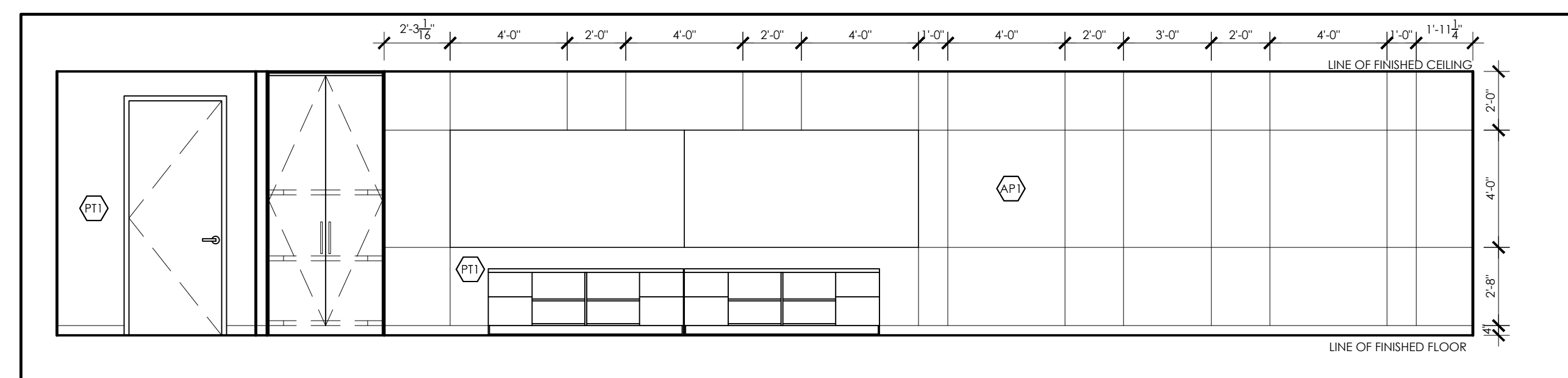
Project title
MPAC
 1340 PICKERING PKWY
 10TH FLOOR
 PICKERING, ON

Drawing title
FLOOR FINISH PLAN

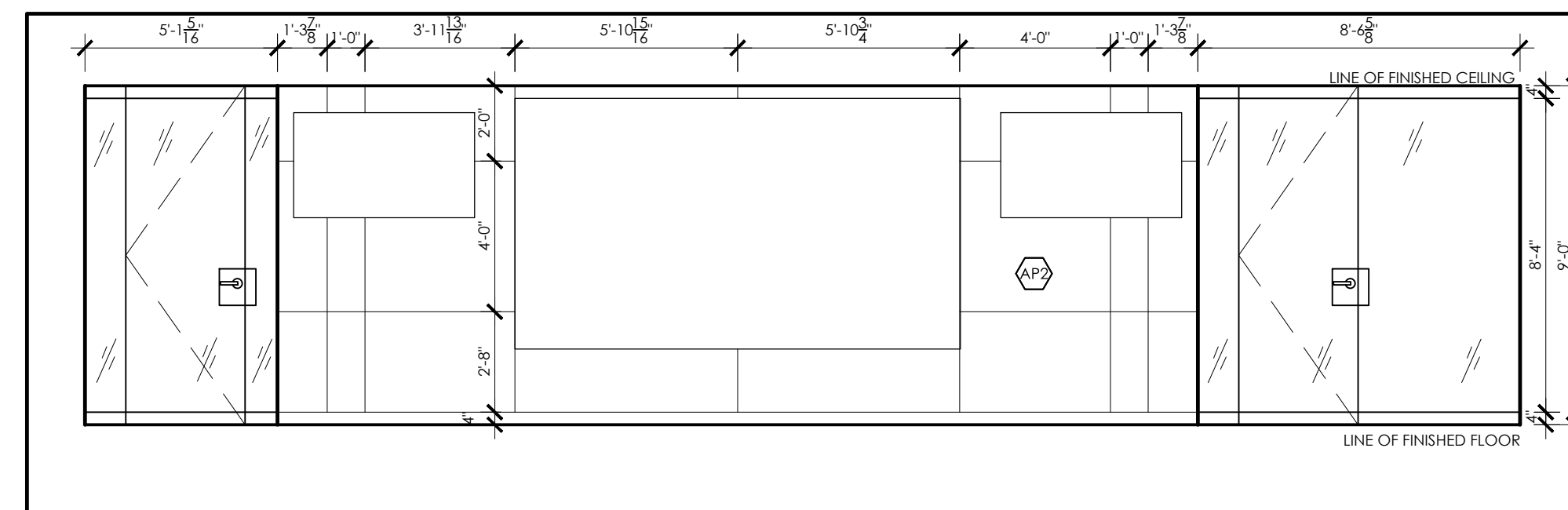
date	14FEB24	project no.	24-1008
drawn by	JC	cad file	24-1008_1-1004
checked by	AH	drawing no.	I-1004
scale	1/8" = 1'-0"		



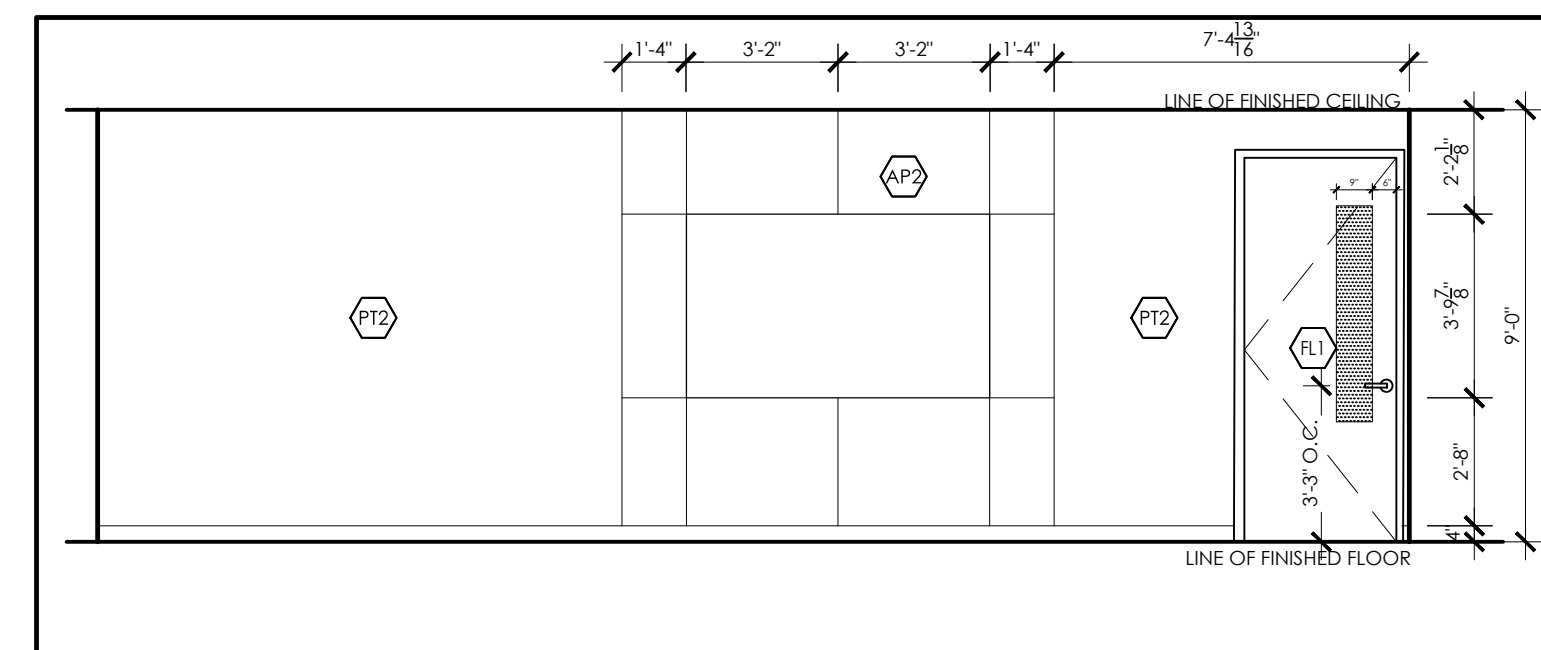
1 WALL FINISHES PLAN
1/8" = 1'-0"



2 ACOUSTIC PANEL ELEVATION
1/4" = 1'-0"



3 ACOUSTIC PANEL ELEVATION
1/4" = 1'-0"



4 ACOUSTIC PANEL ELEVATION
1/4" = 1'-0"

WALL FINISH LEGEND

SYMBOL	DESCRIPTION
—	DENOTES EXISTING PARTITION TO REMAIN
==	DENOTES NEW PARTITION
PT1	FIELD PAINT: PT1 (OFF WHITE) MANUFACTURER: BENJAMIN MOORE COLOUR: OC-28 COLLINGWOOD FINISH: EGGSHELL
PT2	ACCENT PAINT: PT2 (BLUE) MANUFACTURER: BENJAMIN MOORE COLOUR: 2129-30 BLUE NOTE FINISH: EGGSHELL
PT3	DOOR & FRAME PAINT: PT3A (BLUE) MANUFACTURER: BENJAMIN MOORE COLOUR: 2129-30 BLUE NOTE FINISH: SEMI-GLOSS
PT3A	ACCENT PAINT: PT3 (CHARCOAL) MANUFACTURER: BENJAMIN MOORE COLOUR: 2134-30 IRON MOUNTAIN FINISH: EGGSHELL
PT3B	DOOR & FRAME PAINT: PT3A (CHARCOAL) MANUFACTURER: BENJAMIN MOORE COLOUR: 2134-30 IRON MOUNTAIN FINISH: SEMI-GLOSS NOTE: ALL FIRE RATED DOORS AND FRAMES TO BE PAINTED WITH FLUORESCENT PAINT
PT3C	BULKHEADS TO BE PAINTED AS PER WALL FINISH PLAN
AP1	ACOUSTIC PANEL: AP1 MANUFACTURER: ACOUFELT COLOUR: GREY - GR03 SERIES: SOLID PANEL THICKNESS: 12MM CONTACT: ROBIN WARD T: 447.244.0381 E: robin.ward@acoufelt.com
AP2	ACOUSTIC PANEL: AP2 MANUFACTURER: ACOUFELT COLOUR: SHRAZ - SH63 SERIES: SOLID PANEL THICKNESS: 12MM CONTACT: ROBIN WARD T: 447.244.0381 E: robin.ward@acoufelt.com
WT1	WALL TILE: WT1 - KITCHEN BACKSPASH MANUFACTURER: OLYMPIA TILE SERIES: COLOUR & DIMENSION COLOUR: TENDER GREY BRIGHT SIZE: 5.5 CM X 21.8 CM PRODUCT CODE: QT.CD.TGR.0208R GROUT SPEC: MAFES TBC INSTALL METHOD: FROM TOP OF COUNTER TO U/S OF CEILING. REFER TO MILLWORK ELEVATIONS SUPPLIER/TEL:
---	AREA NOT IN CONTRACT (NIC)

DRAWING NOTES

SYMBOL	DESCRIPTION
NOTE 1	CONTRACTOR TO COORDINATE EXTENT OF ACOUSTIC PANEL WITH AV CONSULTANT DRAWINGS. PROVIDE OPENING IN PANELS FOR INSTALLATION OF DISPLAY, BRACKETS AND OUTLETS.
NOTE 2	CONTRACTOR TO COORDINATE EXTENT OF ACOUSTIC PANEL WITH GLASSBOARD INSTALLATION. REFER TO ELEVATION 2/1107 FOR DIMENSIONS.
NOTE 3	CONTRACTOR TO ADD 1/2" x 1/2" BLACK CORNER ANGLE TO GUARD FROM DAMAGE.

WALL FINISH NOTES

- CEILING HEIGHT: 9'-0"
- THIS DRAWING & NOTES TO BE READ IN CONJUNCTION WITH GENERAL NOTES, REFER TO DRAWING #1-000.
- THE ENTIRE DRAWING PACKAGE TO BE REFERENCED AND REVIEWED AS A WHOLE.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH MECHANICAL AND ELECTRICAL ENGINEERS DRAWINGS AND SPECIFICATIONS.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL CONSTRUCTION SPECIFICATIONS AND DOCUMENTS.
- THE CONTRACTOR IS TO PROVIDE ALL MATERIALS, LABOUR, EQUIPMENT AND SERVICES AS NECESSARY FOR A SOLID INSTALLATION TO COMPLETE WORK AS INDICATED ON PLANS.
- STORE ALL MATERIALS ON SITE IN A SPACE DESIGNATED BY THE LANDLORD, SUCH STORAGE SPACE TO BE KEPT CLEAN, REMOVE ANY OIL RAGS, WASTE ETC. FROM THE BUILDING EVERY NIGHT TO TAKE EVERY PRECAUTION TO AVOID THE DANGER OF FIRE. IN NO CASE SHALL AMOUNT OF MATERIALS EXCEED THAT PERMITTED BY LOCAL LAW.
- ALL MATERIALS ARE TO BE AS SPECIFIED OR EQUAL. ANY ALTERNATIVES TO HAVE A FLAME SPREAD RATING AS REQUIRED BY LOCAL BUILDING CODE AND ARE SUBJECT TO APPROVAL BY DESIGNER/CLIENT.
- THE CONTRACTOR IS TO CONFIRM ALL COLOURS, FINISHES AND MATERIALS SPECIFIED.
- CONTRACTOR TO REMOVE ANY EXISTING WALLCOVERING AND PREPARE FOR APPLICATION OF NEW FINISHES.
- CONTRACTOR TO REMOVE ALL EXISTING APPLIED SIGNS, COVER PLATES, ETC., BEFORE PREPARING SURFACE FOR APPLICATION OF NEW FINISHES. REINSTALL SAME AS REQUIRED.
- ALL SURFACES TO BE SANDED, FILLED AND PREPARED AS REQUIRED TO ACCEPT NEW FINISH.
- IF PATCHING OF GWB OCCURS, ENTIRE WALL TO RECEIVE NEW SPECIFIED FINISH.
- FINISHED WORK TO BE UNIFORM, OF APPROVED COLOUR, SMOOTH AND FREE FROM RUNS, SAGS, CLOGGING AND EXCESS FLOODING. MAKE EDGE OF PAINT ADJOINING OTHER COLOURS OR MATERIALS SHARP AND CLEAN WITH NO OVERLAPPING. WHERE GLASS ENAMEL IS USED, LIGHTLY SAND UNDERCOAT TO OBTAIN A SMOOTH FINISH.
- AT COMPLETION CONTRACTOR TO PROVIDE TOUCH UP. RESTORE SURFACES WHERE DAMAGED AND LEAVE FINISHED SURFACES IN GOOD CONDITION.
- WHEN ONE WALL FINISH IS INDICATED WITHIN ENCLOSED AREA, THIS FINISH MUST BE APPLIED TO ALL WALLS, INCLUDING VERTICAL BULKHEADS, PERIMETER WALLS AND COLUMNS, UNLESS NOTED OTHERWISE.
- ALL WALLS TO BE PT1, EGGSHELL FINISH, UNLESS NOTED OTHERWISE.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES TO SURFACES, FINISHES AND MATERIALS DUE TO THE WORK UNDER THIS CONTRACT, AND WILL BEAR ALL COSTS INCURRED TO MAKE GOOD, REPAIR OR REPLACE SAME TO DESIGNER'S SATISFACTION.
- THE CONTRACTOR IS TO INCLUDE PAINTING OF METAL DOORS AND FRAMES. REFER TO DOOR SCHEDULE FOR SPECIFICATIONS.
- PERIMETER CONVECTOR COVERS AND LINEAR DIFFUSER SURROUNDS TO BE PAINTED TO MATCH PT1 FINISH UNLESS OTHERWISE NOTED.
- INTERIOR FINISHES TO COMPLY WITH MAXIMUM THICKNESS, FLAME SPREAD RATINGS AND SMOKE DEVELOPED CLASSIFICATIONS AS IDENTIFIED IN SUBSECTIONS 3.1.5, 3.1.12, AND 3.1.13 OF DIVISION 8 OF 2012 OBC, INCLUDING BEING BASED ON TRIPPLICATE TESTING TO CAN/ULC S102 OR CAN/ULC S102.2 AS APPLICABLE. SUBMIT DOCUMENTATION TO BUILDING INSPECTOR UPON REQUEST.

ACOUSTIC PANEL:

- GENERAL CONTRACTOR TO:
- BE RESPONSIBLE FOR DEFECTIVE ACOUSTIC PANEL APPLICATION DUE TO UNSATISFACTORY WALL SURFACE PREPARATION.
 - ENSURE SAME DYE LOT FOR ALL ACOUSTIC PANEL.
 - ROLL OUT WALLCOVERING PRIOR TO INSTALLATION. CHECK FOR FLAWS AND INFORM DESIGNER IMMEDIATELY IF AN ALTERNATIVE IS REQUIRED.
 - INDICATE FLAME SPREAD AND FLAMMABILITY STANDARDS FOR ALL ACOUSTIC PANEL.
 - REMOVE DUST, DIRT AND GREASE AND SAND SURFACES SMOOTH BEFORE APPLYING ACOUSTIC PANEL.

PAINT:

- DELIVER ALL PAINT TO SITE IN THE MANUFACTURER'S LABELED AND SEALED CONTAINERS. LABELS ARE TO GIVE THE MANUFACTURER'S NAME BRAND, BATCH NUMBER, COLOUR OF PAINT WITH PRINTED INSTRUCTIONS FOR REPRODUCING. THIN PAINT ONLY IN ACCORDANCE WITH PRINTED INSTRUCTIONS FROM MANUFACTURER.
 - ALL NEW SURFACES TO BE CLEAN, SMOOTH AND DRY. ALL WALLS TO RECEIVE MINIMUM ONE (1) COAT OF PRIMER AND TWO (2) COATS OF PAINT. MEDIUM AND/OR DARK COLOURED WALLS TO RECEIVE MINIMUM (1) COAT OF PRIMER AND FOUR (4) COATS OF PAINT. CONTRACTOR TO ALLOW FOR PROPER DRYING TIME FOR ALL COATS OF PAINT BEFORE APPLYING NEXT COAT OF PAINT.
- ALL GWB SURFACES: EGGSHELL FINISH
PAINT TYPE: LATEX
UNLESS NOTED OTHERWISE.
- ALL WOOD AND METAL SURFACES: SEMI-GLOSS FINISH
PAINT TYPE: LATEX
- GENERAL CONTRACTOR TO ENSURE:
- ALL CLOSETS, INCLUDING SHELVES TO BE "PT1" UNLESS NOTED OTHERWISE.
 - ALL CONVECTORS TO BE PAINTED (SPRAYED) WITH AN OIL BASED PAINT AS PER WALL FINISH PLAN. CONVECTOR UNIT COVERS TO BE REMOVED PRIOR TO PAINTING.
 - ALL BASE BUILDING FIRE HOSE CABINETS, ELECTRICAL PANELS ETC. TO BE PAINTED TO MATCH THE WALL FINISH ON WHICH IT OCCURS.
 - ALL EXPOSED WALL GRILLES, PLATES, CONDUIT, ETC. TO BE PAINTED TO MATCH THE WALL FINISH ON WHICH IT OCCURS.
 - ALL REVEALS TO BE PAINTED AS PER WALL FINISH PLAN.
 - ALL NEW PRESSED STEEL FRAMES AND HOLLOW METAL DOORS TO BE AS PER WALL FINISH LEGEND.
 - ALL DOORS WITH TIMELY PRE-FINISHED FRAMES TO BE PAINTED SHOP FINISH
 - ALLOW FOR PAINT TOUCH-UPS AFTER MILLWORK AND FURNITURE INSTALLATION.

TILE WALL FINISH NOTES:

- ALL SEAMS IN WALL TILE BASE ARE TO ALIGN WITH SEAMS IN FLOOR TILES. IF VARIANCE OCCURS, DISCUSS WITH THE DESIGNER ON SITE PRIOR TO INSTALLATION.
- ALL GROUTING COMPOUND FOR FLOOR TILE APPLICATION ARE TO BE MADE WATERPROOF AS REQUIRED FOR INTENDED USAGE. REFER TO FLOOR FINISH LEGEND FOR GROUT COLOR.
- THE CONTRACTOR IS TO REMOVE GROUT FROM TILE FACE BEFORE IT SETS. SEAL GROUT IMMEDIATELY AFTER SETTING TO PREVENT ANY STAINING.

GREEN INITIATIVES:

- ALL ADHESIVE AND SEALANTS MUST COMPLY WITH VOC LIMITS (AS PER SCAQMP RULE 1148).
- SUGGESTED ZERO VOC LINES:
BENJAMIN MOORE - AURA, ben
SHERWIN WILLIAMS - PROMAR 200 ZERO VOC, HARMONY, ECOSELECT ZERO VOC
DULUX - ULTRA ZERO VOC
BEHR - PREMIUM PLUS LOW VOC
CIL - PREMIUM
OLYMPIC - PREMIUM
SICO - PRO ZERO VOC
PARA - PREMIUM ZERO
PITTSBURGH - PURE PERFORMANCE ZERO VOC

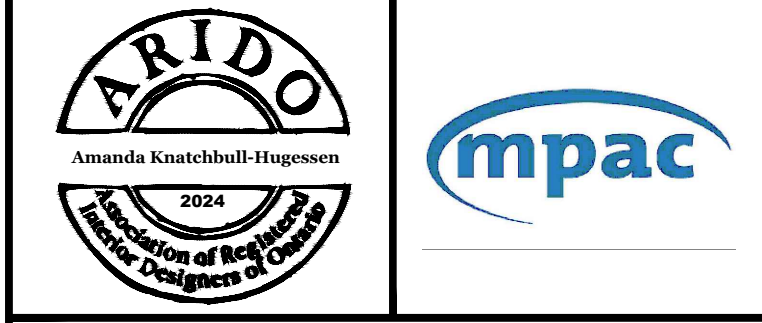


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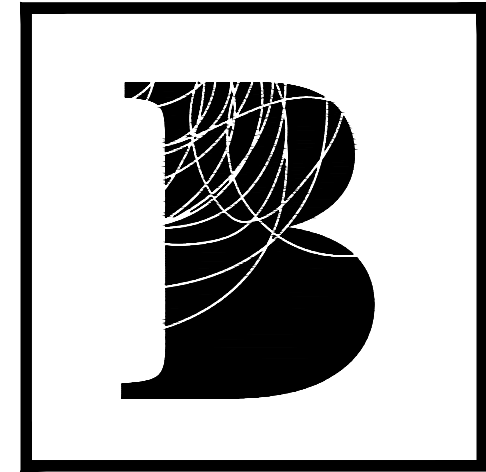
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04	16AUG24	AH	ISSUED FOR TENDER
03	13AUG24	AH	ISSUED FOR PERMIT
02	08AUG24	AH	ISSUED FOR 90% REVIEW
01	08JUL24	AH	ISSUED FOR COORDINATION



Project title
MPAC
1340 PICKERING PKWY
10TH FLOOR
PICKERING, ON

Drawing title
WALL FINISHES PLAN

date 14FEB24	project no. 24-1008
drawn by JC	cad file: 24-1008_1-1002
checked by AH	drawing no. I-1005
scale 1/8" = 1'-0"	



BENNETT

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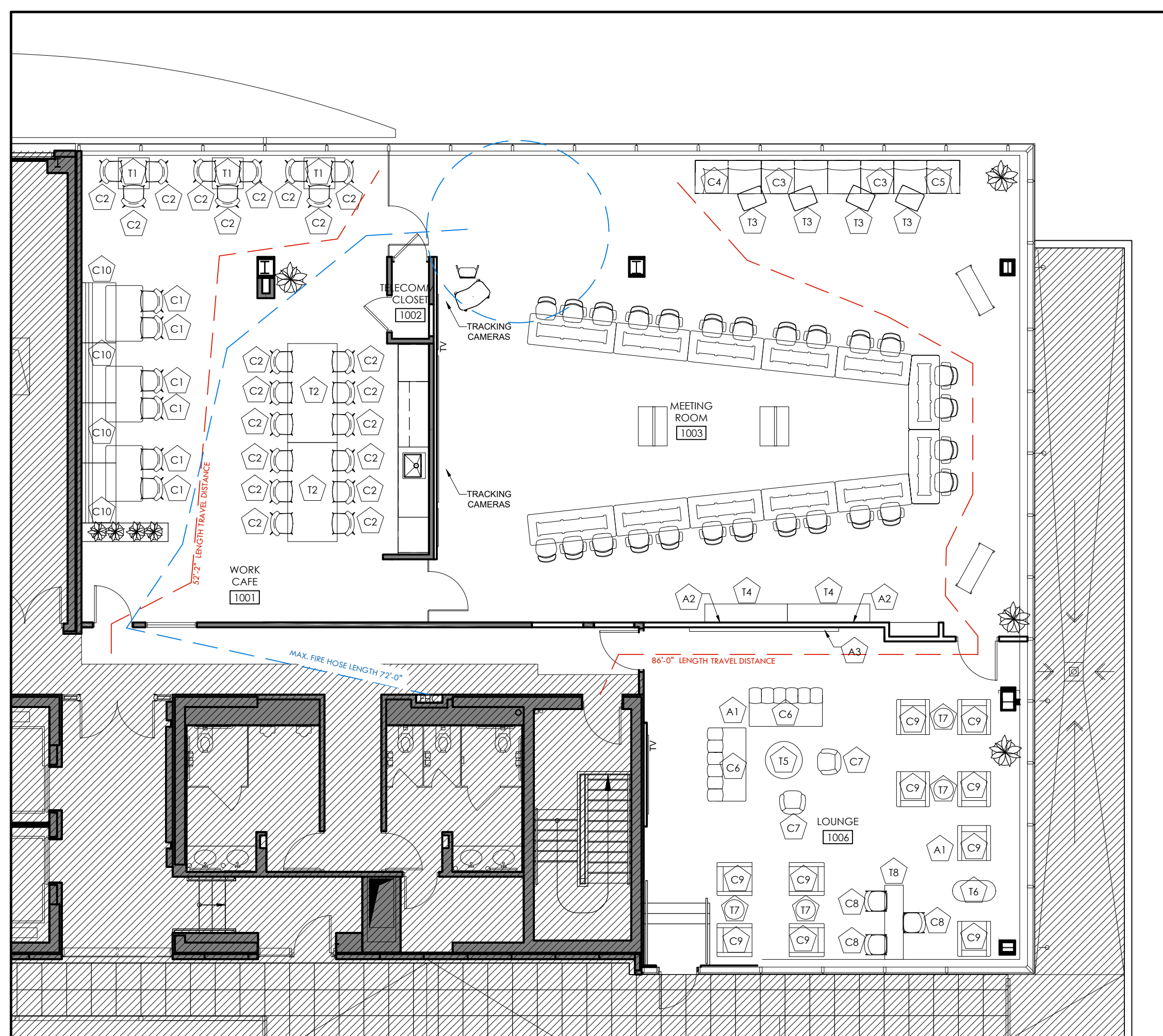
The undersigned has reviewed and takes responsibility for this design, and has the qualifications and meets the requirements set out in the Ontario Building Code to be a designer.

QUALIFICATION INFORMATION
Required unless design is exempt under 2.17.5.1 of the building code.

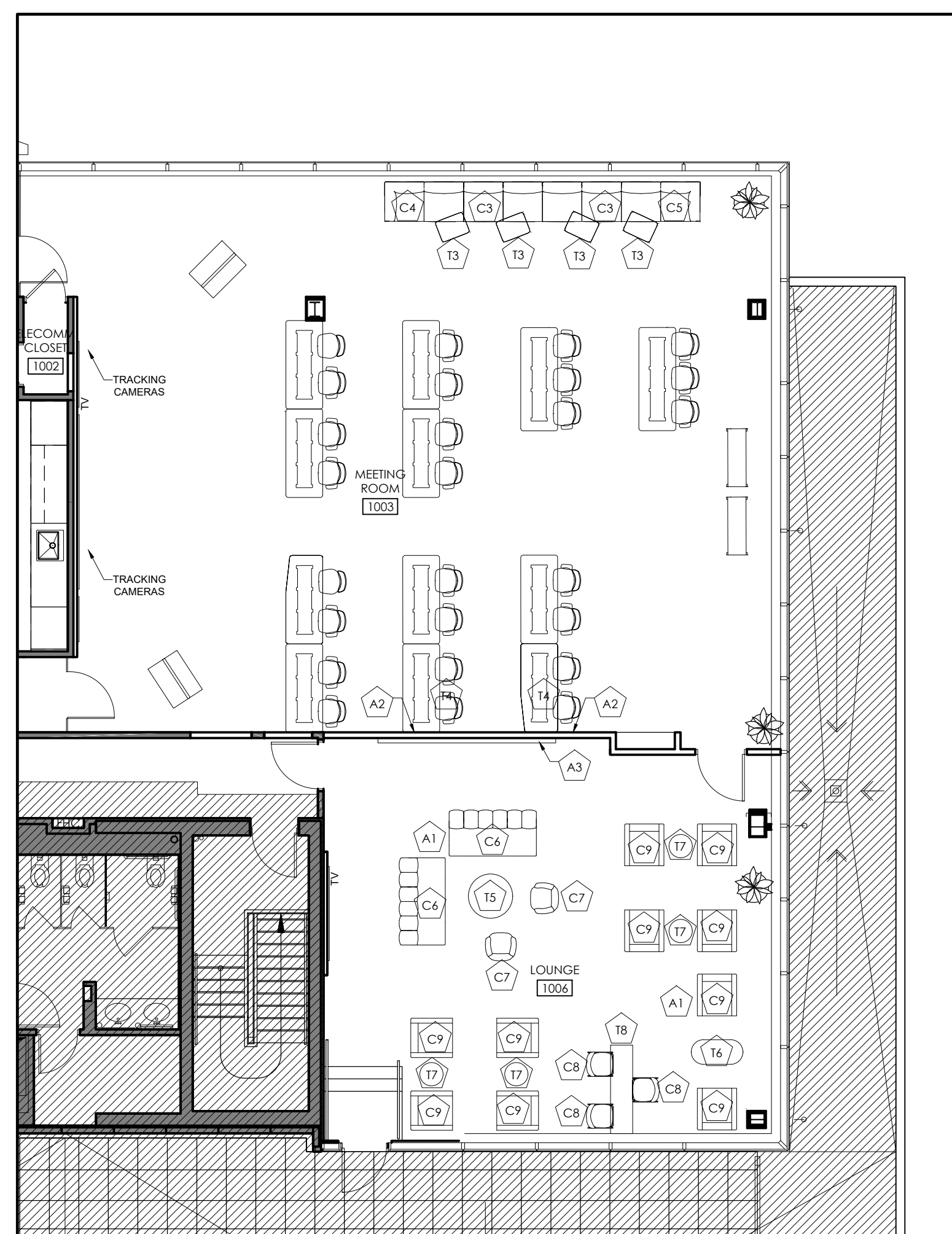
K. RIVERBEND WITH BCIN 30652
Name Signature BCIN/BCDN

REGISTRATION INFORMATION
Required unless design is exempt under Division C - 3.2.4.1 of the 2012 Ontario Building Code.

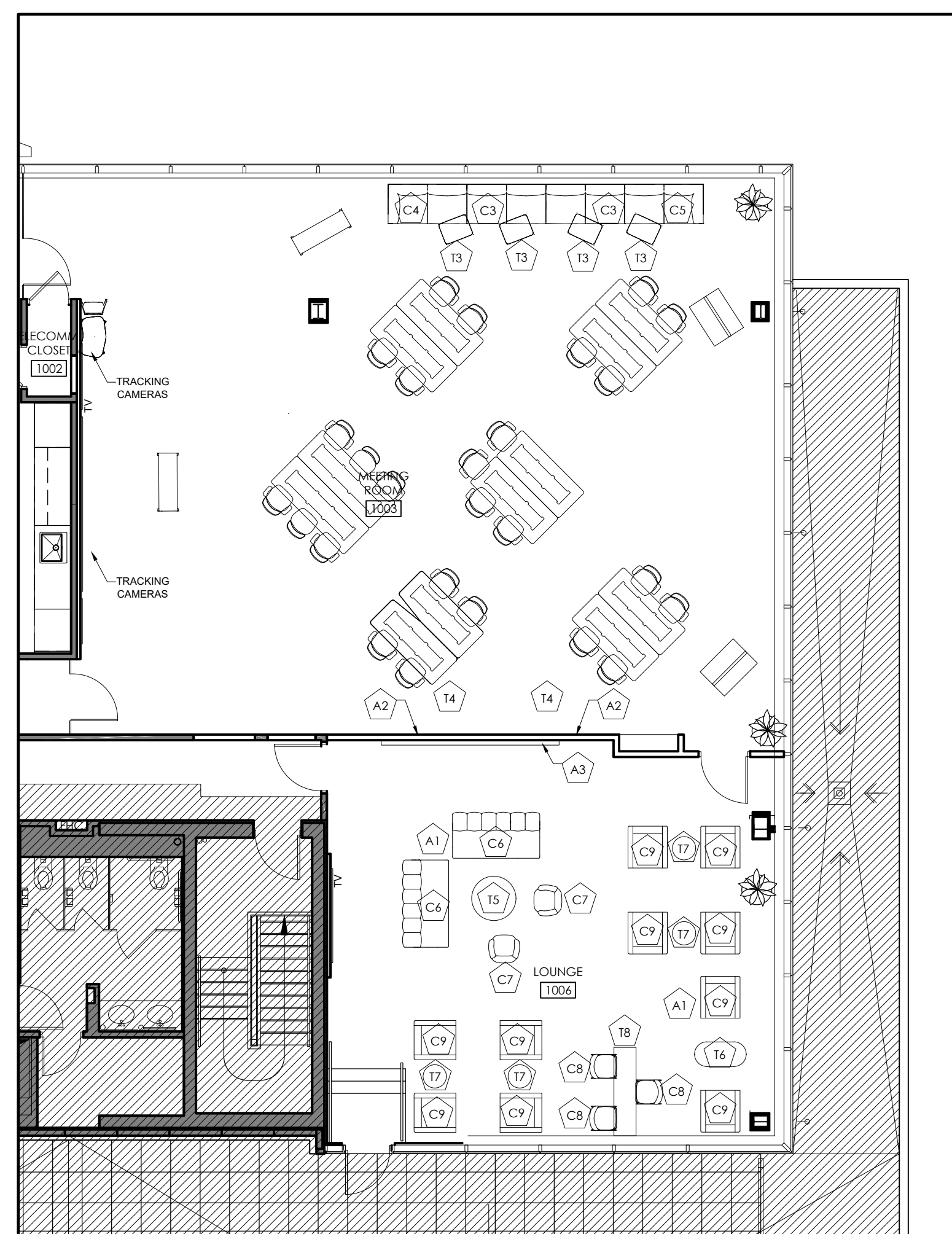
BENNETT DESIGN ASSOCIATES INC. BCIN 30635
Firm Name BCIN/BCDN



1 FURNITURE PLAN: BOARDROOM LAYOUT
1-I-1006 1/8" = 1'-0"



2 FURNITURE PLAN: TRAINING LAYOUT
1-I-1006 1/8" = 1'-0"



3 FURNITURE PLAN: CLUSTER LAYOUT
1-I-1006 1/8" = 1'-0"

SYMBOL	DESCRIPTION	QTY
	DENOTES EXISTING PARTITION TO REMAIN	
	DENOTES NEW PARTITION	
	INDICATES TRAVEL DISTANCE WITH DIMENSIONS TO EXIT PATHS	
	INDICATES DISTANCE WITH DIMENSIONS TO FIRE HOSE CABINET	
SEATING:		
C1	NEW CHAIR W/ UPHOLSTERED SEAT (WORK CAFE) TYPE: SHORTCUT CHAIR - X BASE SHELL FINISH: JAZZ - PG1 4336 CUSHION FINISH: SAILOR - 5878 QUOTE LINE ITEM #: 05 (POI)	6
C2	NEW STOOL W/ UPHOLSTERED SEAT (WORK CAFE) TYPE: SHORTCUT STOOL - X BASE SHELL FINISH: STERLING DARK SOLID - PG1 6059 CUSHION FINISH: FOGGY NIGHT - 5877 QUOTE LINE ITEM #: 06 (POI)	21
C3	NEW LOUNGE SOFA (MEETING ROOM) TYPE: WEST ELM MESA - ARMLESS COLOUR: BERRY - 301 QUOTE LINE ITEM #: 13 (POI)	2
C4	NEW LOUNGE SOFA (MEETING ROOM) TYPE: WEST ELM MESA - LEFT HAND COLOUR: BERRY - 301 QUOTE LINE ITEM #: 14 (POI)	1
C5	NEW LOUNGE SOFA (MEETING ROOM) TYPE: WEST ELM MESA - RIGHT HAND COLOUR: BERRY - 301 QUOTE LINE ITEM #: 15 (POI)	1
C6	NEW LOUNGE SOFA (LOUNGE) TYPE: BELLE LOUNGE - 2 SEAT COLOUR: PEWTER - SH20 QUOTE LINE ITEM #: 18 (POI)	2
C7	NEW LOUNGE CHAIR (LOUNGE) TYPE: POPPY LOUNGE, SWIVEL BASE COLOUR: KALEIDOSCOPE QUOTE LINE ITEM #: 02 (BRIGHOLME)	2
C8	NEW STOOL (LOUNGE) TYPE: MAARI STOOL, BAR HEIGHT COLOUR: INDIGO, DOTS QUOTE LINE ITEM #: 04 (BRIGHOLME)	3
C9	NEW LOUNGE CHAIR (LOUNGE) TYPE: KEBLHAUER LOUNGE CHAIR COLOUR: CALIFORNIA NAVY, PICASSO BLUE QUOTE LINE ITEM #: 05 (BRIGHOLME)	10
C10	NEW BANQUETTE (WORK CAFE) TYPE: RIVERBEND W/ POWER COLOUR: LARA, MYSTERY, KALEIDOSCOPE, RUBY QUOTE LINE ITEM #: 04 (BRIGHOLME)	4

SYMBOL	DESCRIPTION	QTY
TABLES:		
T1	NEW CAFE TABLE (WORK CAFE) TYPE: 42" H SQUARE CAFE TABLE COLOUR: ARCTIC WHITE - 2730 QUOTE LINE ITEM #: 08 (POI)	3
T2	NEW COLLABORATION TABLE (WORK CAFE) TYPE: CAMPFIRE BIG TABLE COLOUR: VIRGINIA WALNUT QUOTE LINE ITEM #: 12 (POI)	2
T3	NEW PERSONAL TABLE (MEETING ROOM) TYPE: 25.5" H PERSONAL TABLE COLOUR: ARCTIC WHITE QUOTE LINE ITEM #: 16 (POI)	4
T4	NEW CREDENZA (MEETING ROOM) TYPE: GREENPOINT CREDENZA COLOUR: VIRGINIA WALNUT QUOTE LINE ITEM #: 17 (POI)	2
T5	NEW LOUNGE TABLE (LOUNGE) TYPE: 28.5" H WORKING HEIGHT ROUND TABLE COLOUR: ARCTIC WHITE QUOTE LINE ITEM #: 19 (POI)	1
T6	NEW COFFEE TABLE (LOUNGE) TYPE: BASSLINE RACETRACK TABLE COLOUR: VIRGINIA WALNUT QUOTE LINE ITEM #: 20 (POI)	1
T7	NEW SIDE TABLE (LOUNGE) TYPE: MAISE SIDE TABLE COLOUR: WALNUT QUOTE LINE ITEM #: 21 (POI)	4
T8	NEW COLLABORATION TABLE (LOUNGE) TYPE: POPUP TABLE COLOUR: LINEN QUOTE LINE ITEM #: 03 (BRIGHOLME)	1
ACCESSORIES:		
A1	NEW POWER CONSOLE (LOUNGE) TYPE: THREAD HUB COLOUR: MERLE QUOTE LINE ITEM #: 23 (POI)	2
A2	NEW WALL MOUNTED GLASS BOARD TYPE: 4 X 6' GLASS BOARD COMPLETE W/ ACCESSORIES	2
A3	NEW WALL LIVING WALL TYPE: BREATHE BY DIRT NOTES: PLANTS TO BE SUPPLIED, INSTALLED, AND MAINTAINED BY PLANT VENDOR.	1

ALL UN-TAGGED FURNITURE ON PLAN IS EXISTING.

DRAWING NOTES

SYMBOL	DESCRIPTION
[NOTE 1]	ALL FURNITURE TO BE SUPPLIED BY MPAC. DRAWING FOR COORDINATION ONLY.

no.	date	by	description
REVISIONS			

04	16AUG24	AH	ISSUED FOR TENDER
03	13AUG24	AH	ISSUED FOR PERMIT
02	08AUG24	AH	ISSUED FOR 90% REVIEW
01	29JUL24	JC	ISSUED TO CLIENT

ISSUED

Project title
MPAC
1340 PICKERING PKWY
10TH FLOOR
PICKERING, ON

Drawing title
FURNITURE PLAN & LFE SAFETY

date	26JUL24	project no.	24-1008
drawn by	JC	cad file:	24-1008_1-1006
checked by	AH	drawing no.	I-1006
scale	1/8" = 1'-0"		

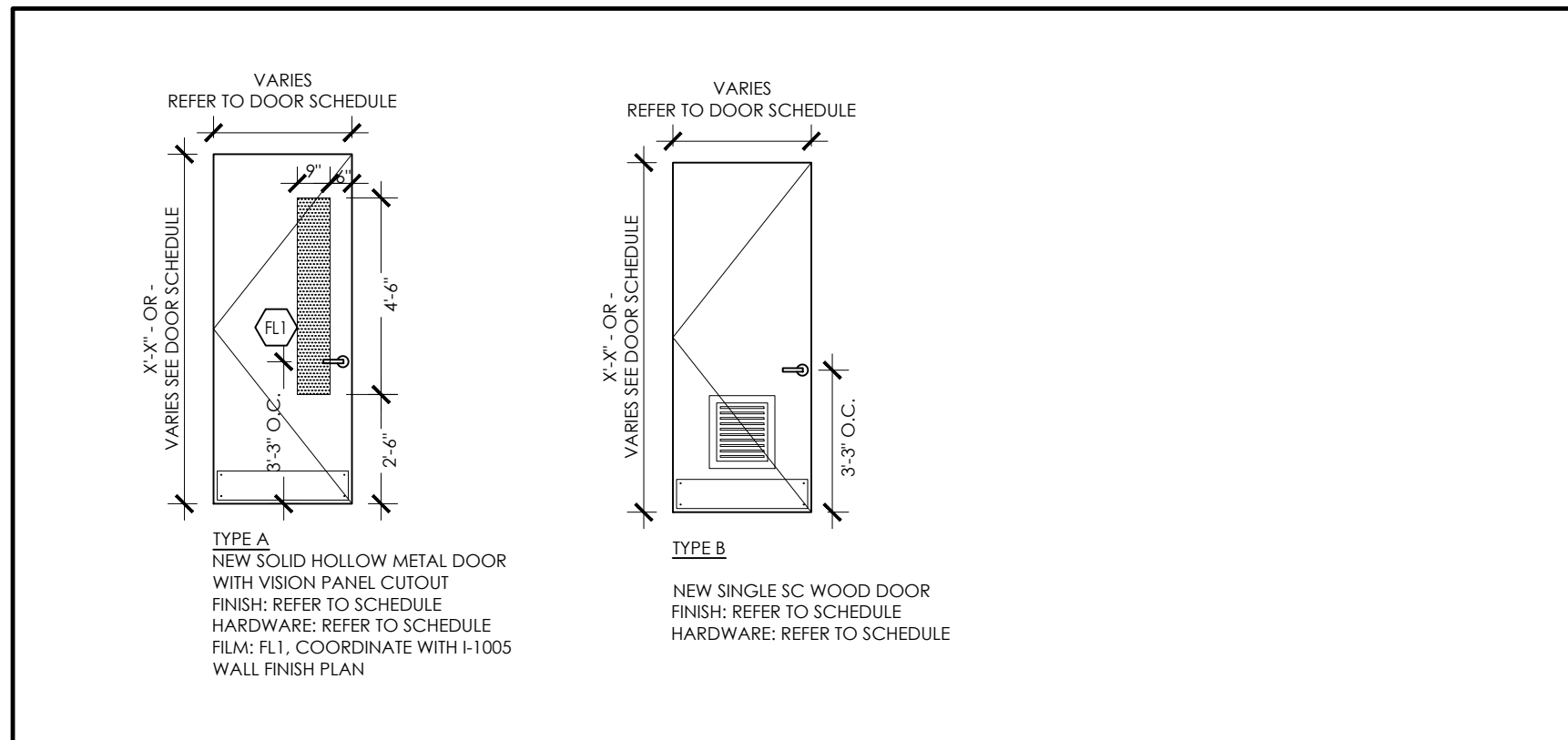
DOOR SCHEDULE									
DOOR #	TYPE	SIZE	LOCATION	SPECIFICATION	HARDWARE	SECURITY	FINISH	FILM	FRAME
1006A	A	MATCH EXISTING	SUITE ENTRY DOOR	NEW SOLID METAL ENTRY DOOR, COMPLETE WITH VISION PANEL AND NEW HARDWARE, INCLUDE TO KEY TO MASTER AND SUB-MASTER WITH NEW STRIKE, COORDINATE WITH ENGINEERS AND SECURITY VENDORS DRAWINGS, FRAME AND DOOR TO BE FIRE RATED AS PER OMC REQUIREMENTS.	<u>BUTT HINGES:</u> MCKINNEY MPB 79 BRUSHED S/S OR EQUAL <u>DOOR STOP:</u> GSH 209 240 <u>LEVER LOCKSET:</u> SARGENT 8204 UNB C/250 MORTISE LOCKET, STORE ROOM FUNCTION, BRUSHED CHROME	MAG LOCK, ELECTRIC STRIKE, AND KEY CARD READER TO BE COORDINATED WITH SECURITY VENDOR	PT3A (SUITE SIDE)	FL2	F1
1006B	A	3'-2" X 1-7'-0" X 1-3/4"	LOUNGE	NEW SOLID METAL DOOR, COMPLETE WITH VISION PANEL AND NEW HARDWARE, LEVER KEYS SEPARATELY AND TO MASTER, CLOSERS, KICKPLATE(S), WITH ACOUSTIC STRIPS	<u>BUTT HINGES:</u> MCKINNEY MPB 79 BRUSHED S/S OR EQUAL <u>DOOR STOP:</u> GSH 209 240 <u>LEVER LOCKSET:</u> SARGENT 8204 UNB C/250 MORTISE LOCKET, STORE ROOM FUNCTION, BRUSHED CHROME		PT3A	FL2	F1
1002A, 1002B	C	2'-6" X 1-7'-0" X 1-3/4"	TELECOMM. CLOSET	NEW SOLID CORE WOOD DOOR, INCLUDE TO SUPPLY AND INSTALL GRILLES AS REQUIRED, CLASSROOM FUNCTION LEVER KEYS SEPARATELY AND TO MASTER, CLOSERS, KICKPLATE(S), KICKDOWN DOOR STOPPER.	<u>BUTT HINGES:</u> MCKINNEY MPB 79 BRUSHED S/S OR EQUAL <u>DOOR STOP:</u> GSH 209 240 <u>LEVER LOCKSET:</u> CLASSROOM FUNCTION, DOUBLE CYLINDER, BRUSHED CHROME <u>KICKDOWN:</u> CSH 190 OR EQUAL, BRUSHED CHROME		PT3A	N/A	F1

NOTE:
CONTRACTOR SHALL PROVIDE 4 FULL MORITSE BUTT HINGES OF THE 3 BALL BEARING TYPE ON ALL DOORS UNLESS OTHERWISE NOTED
ALL DOOR HARDWARE AND ACCESSORIES SHALL BE BRUSHED CHROME/STAINLESS STEEL FINISHED UNLO
ALL HINGES TO BE BEARING TYPE UNLO, ALL HARDWARE TO BE BEARING, HAVING AN OBVIOUS METHOD OF OPERATION UNDER ALL LIGHTING CONDITIONS, THE RELEASING MECHANISM SHALL OPEN THE DOOR WITH NOT MORE THAN ONE RELEASING OPERATION, AS PER LOCAL CODE REQUIREMENTS
REFER TO 1-205 FOR FINISH LEGEND

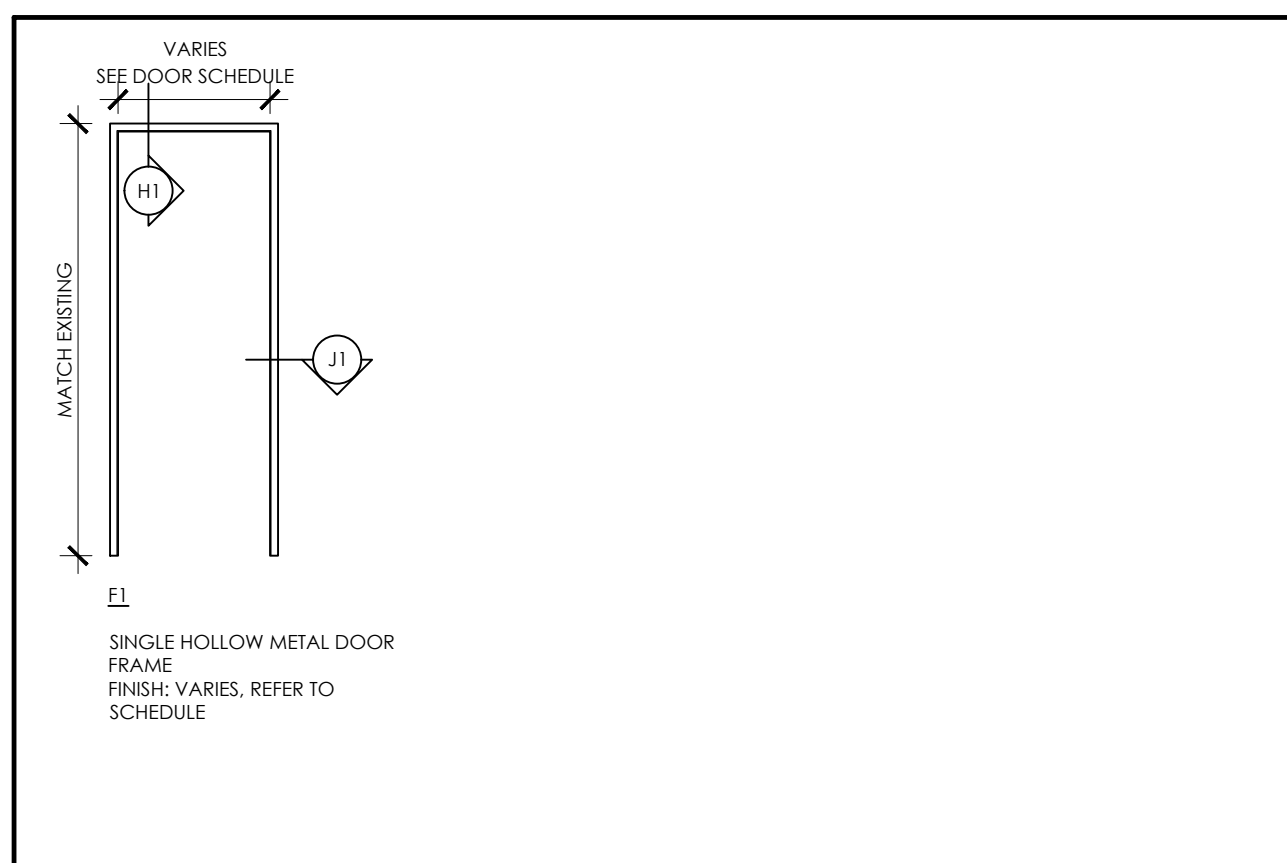
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- THE ENTIRE DRAWING PACKAGE TO BE REFERENCED AND REVIEWED AS A WHOLE.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH MECHANICAL AND ELECTRICAL ENGINEER'S DRAWINGS AND DOCUMENTS.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL CONSTRUCTION SPECIFICATIONS AND DOCUMENTS.
- EXISTING DOORS, GLAZING UNITS, HARDWARE, AND COAT HOOKS, TO BE REUSED WHERE POSSIBLE, ANY EXISTING NOT BEING REUSED SHALL BE DISPOSED OF AS PER CLIENT/LANDLORD DIRECTION.
- CONTRACTOR TO SUPPLY AND INSTALL ALL HARDWARE AS PER MANUFACTURER'S SPECIFICATIONS.
- MOUNT ALL NEW COAT HOOKS AT 60" AFF ON DOOR SIDE OF WALL.
- PROVIDE DOOR SILENCERS FOR ALL WOOD DOORS AND DOOR BUMPER FOR ALL HOLLOW METAL DOORS.
- WHERE NEW PAINT FINISH IS REQUIRED ON DOORS, FRAMES AND REVEALS, REFER TO WALL FINISHES PLAN FOR SPECIFICATION.
- WHERE DOORS AND FRAMES ARE REQUIRED TO BE STAINED, STAIN TO MATCH EXISTING DOORS UNLESS NOTED OTHERWISE.
- LOCK SETS OCCURRING ON JANITOR/STORAGE ROOMS TO BE LOCKABLE FROM CORRIDOR SIDE ONLY.
- CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL DOOR ASSEMBLIES AND HARDWARE FOR APPROVAL PRIOR TO FABRICATION/ORDERING.

13. KEY COPIES:
- MASTER KEY - x2
- SUB-MASTER KEY - x5
- 1002 - x2



1 TYPICAL DOORS
1/4" = 1'-0"



2 TYPICAL FRAMES AND SIDELIGHTS
1/4" = 1'-0"



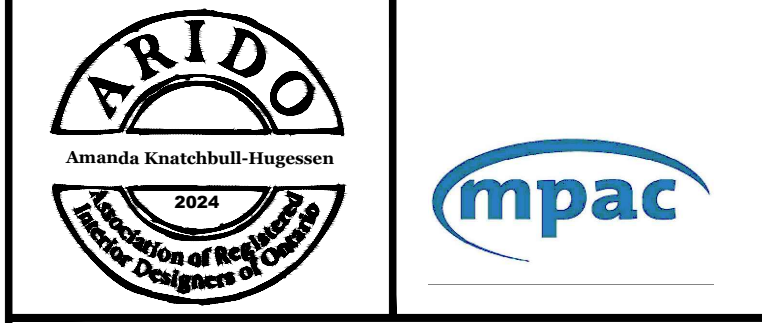
4 TYPICAL HEADER & JAMB DETAILS
3" = 1'-0"



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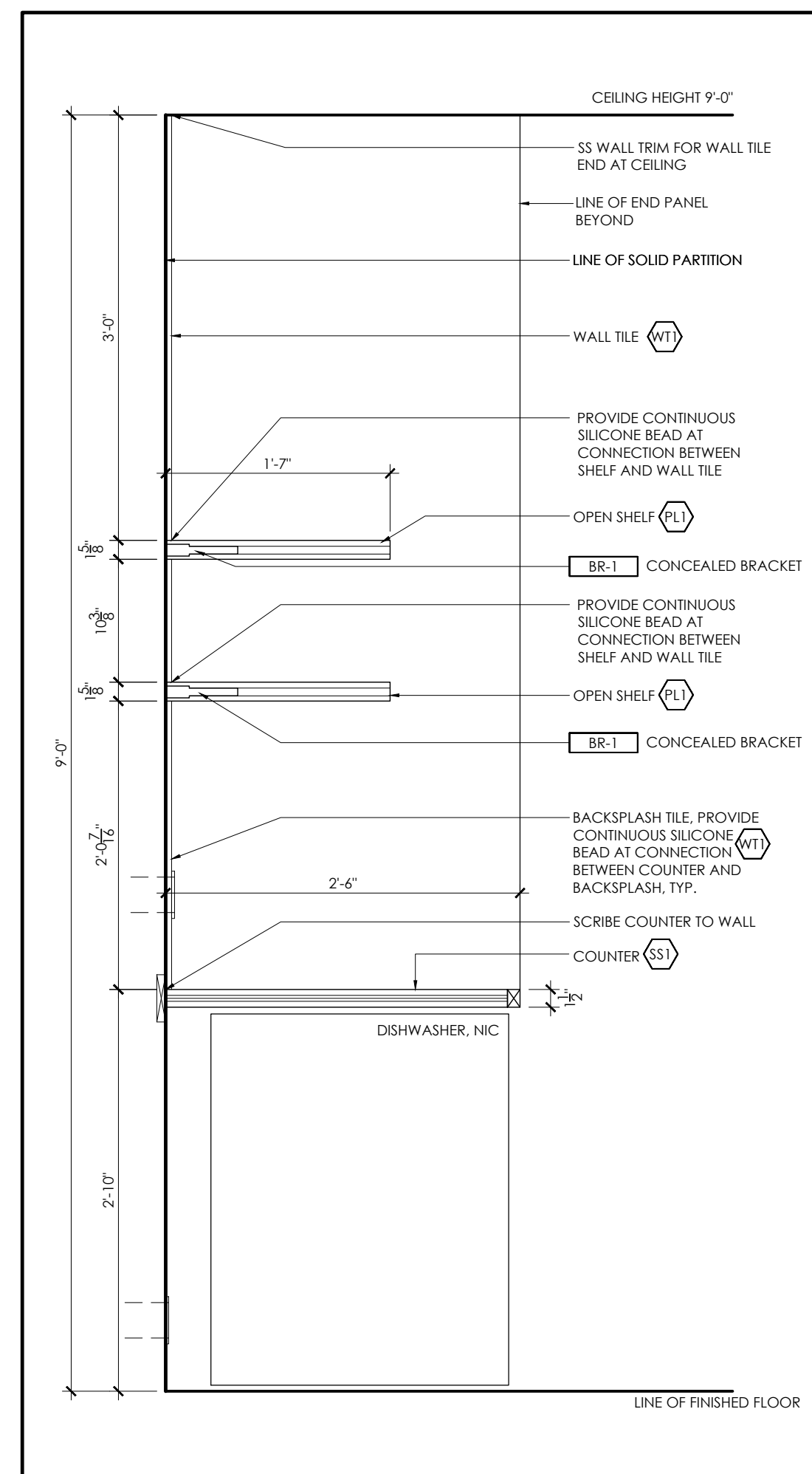
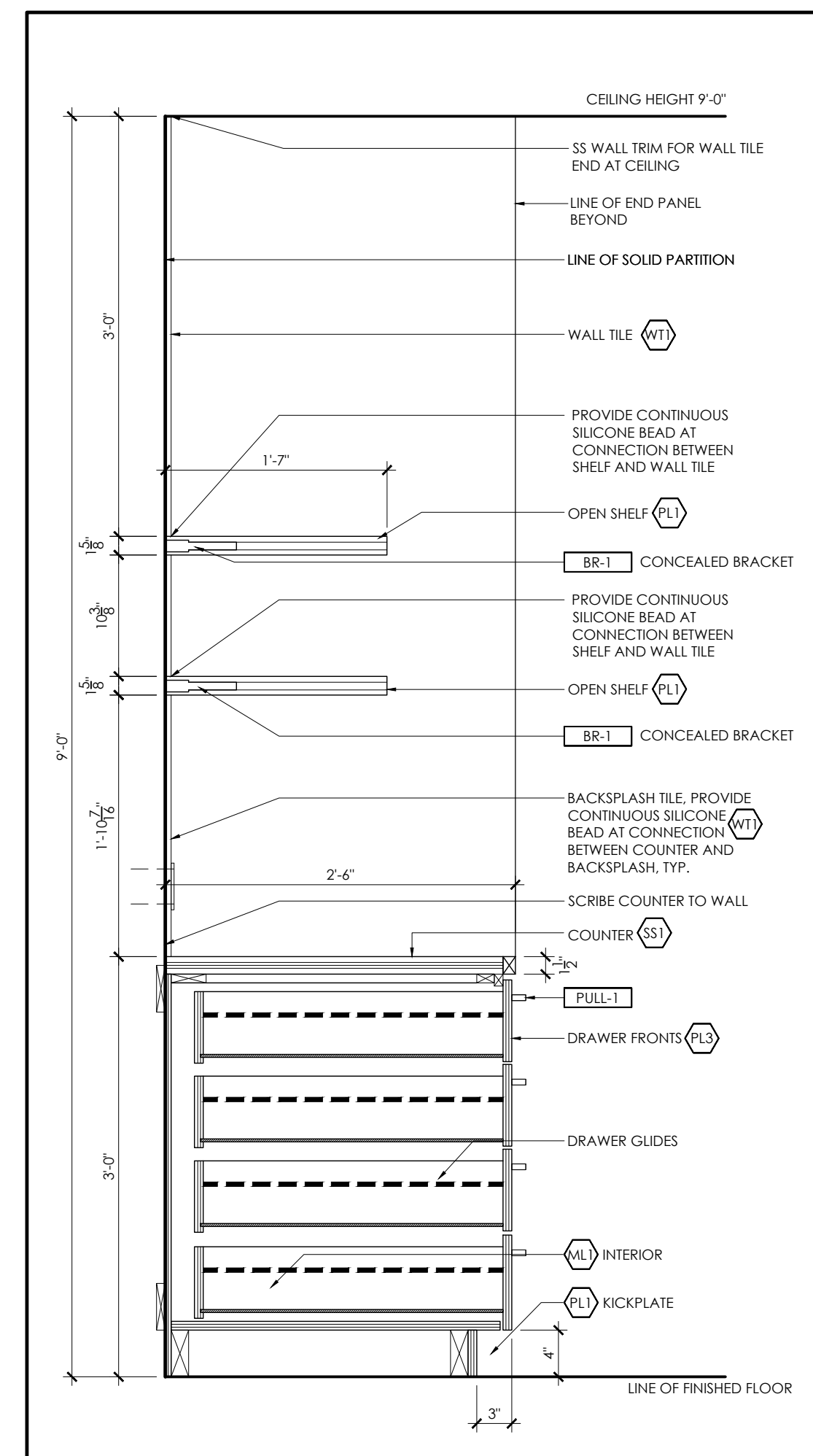
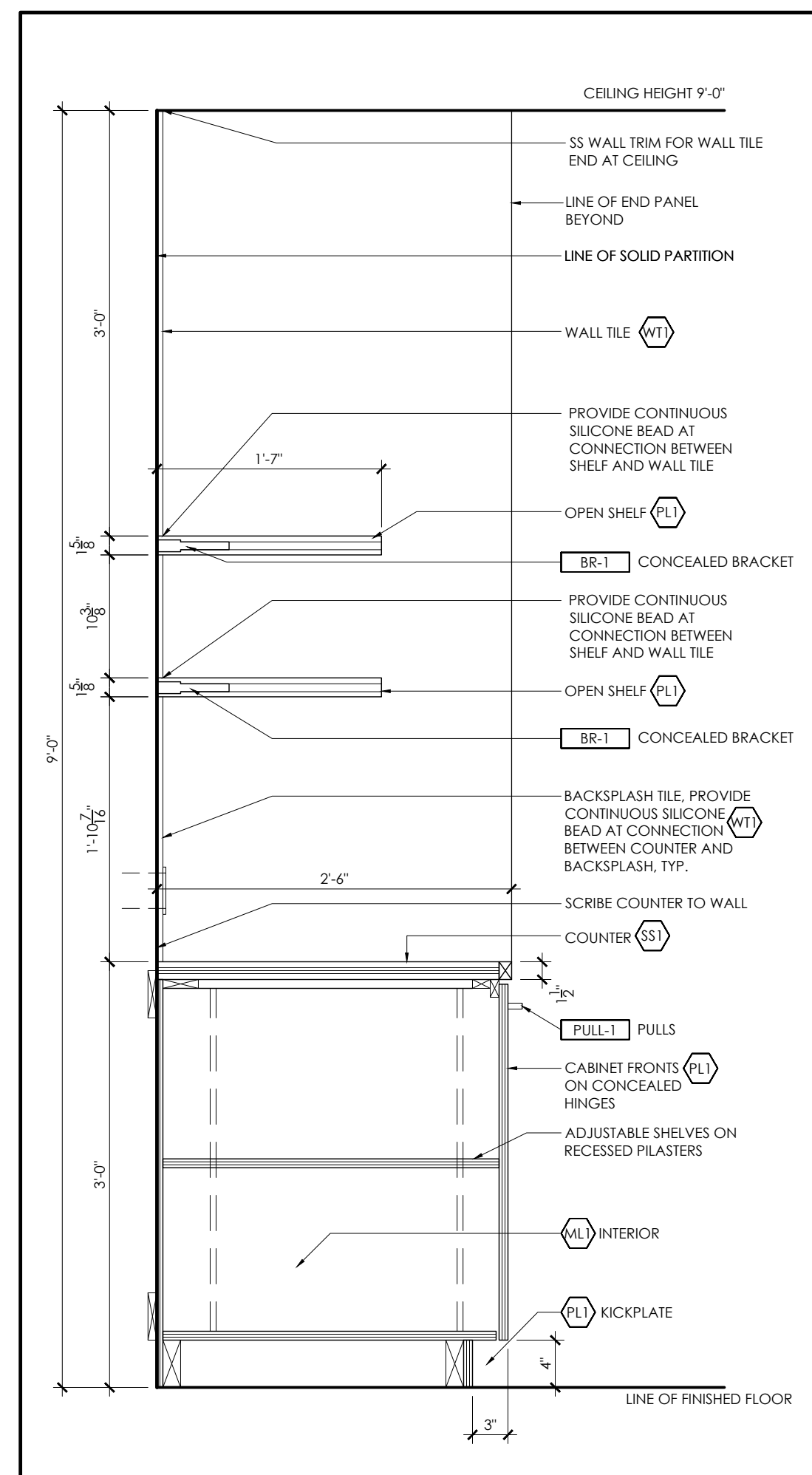
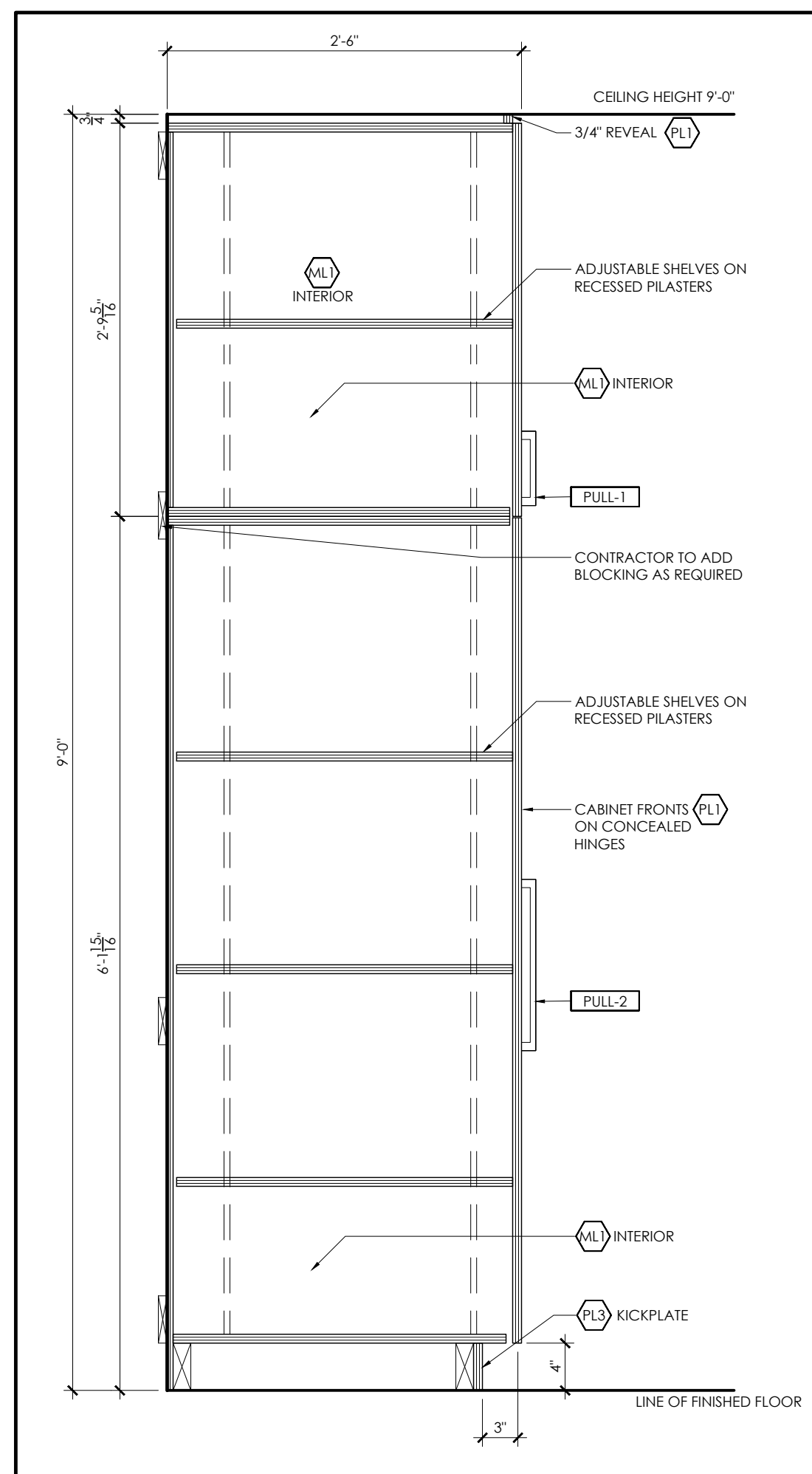
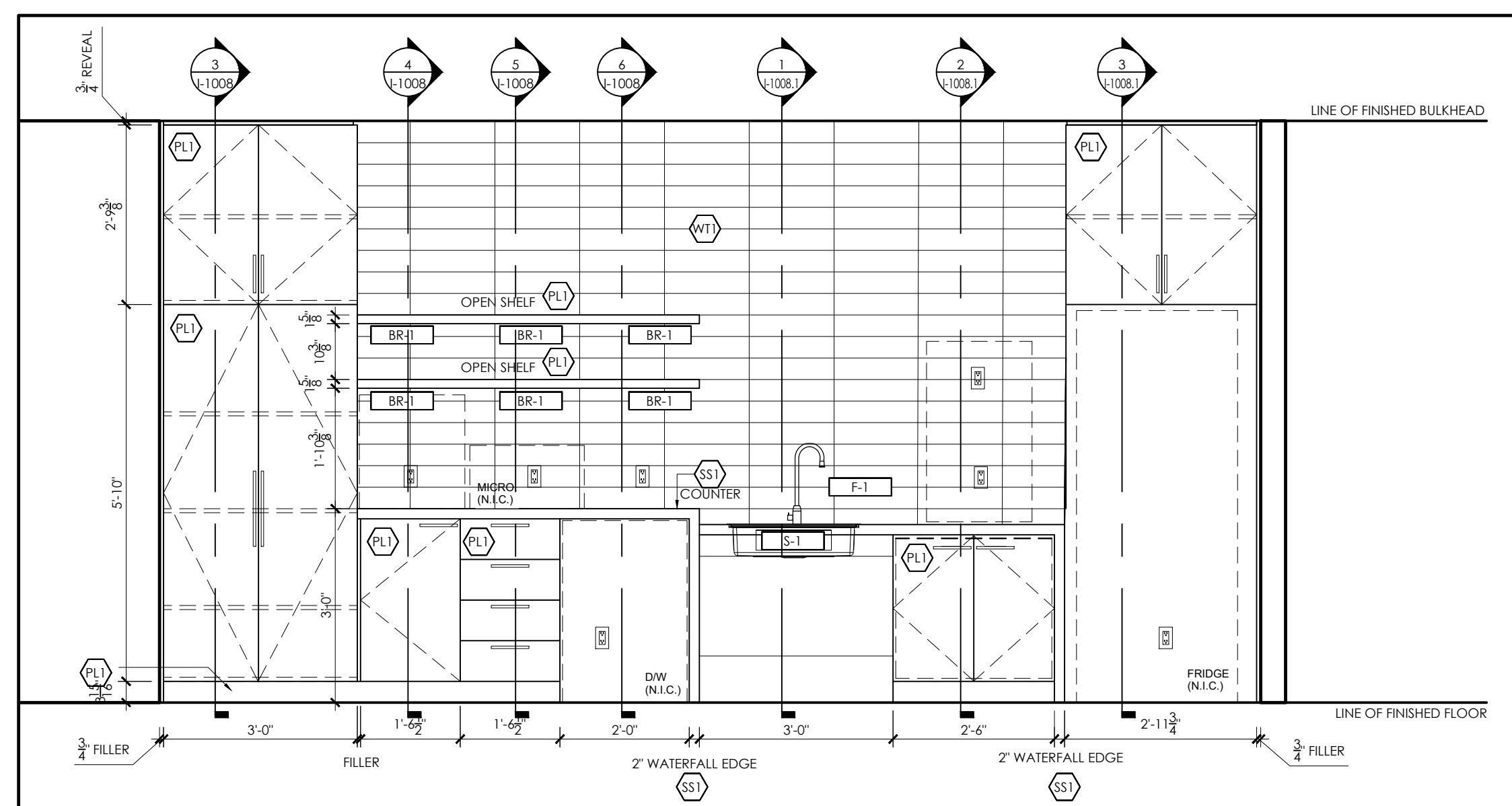
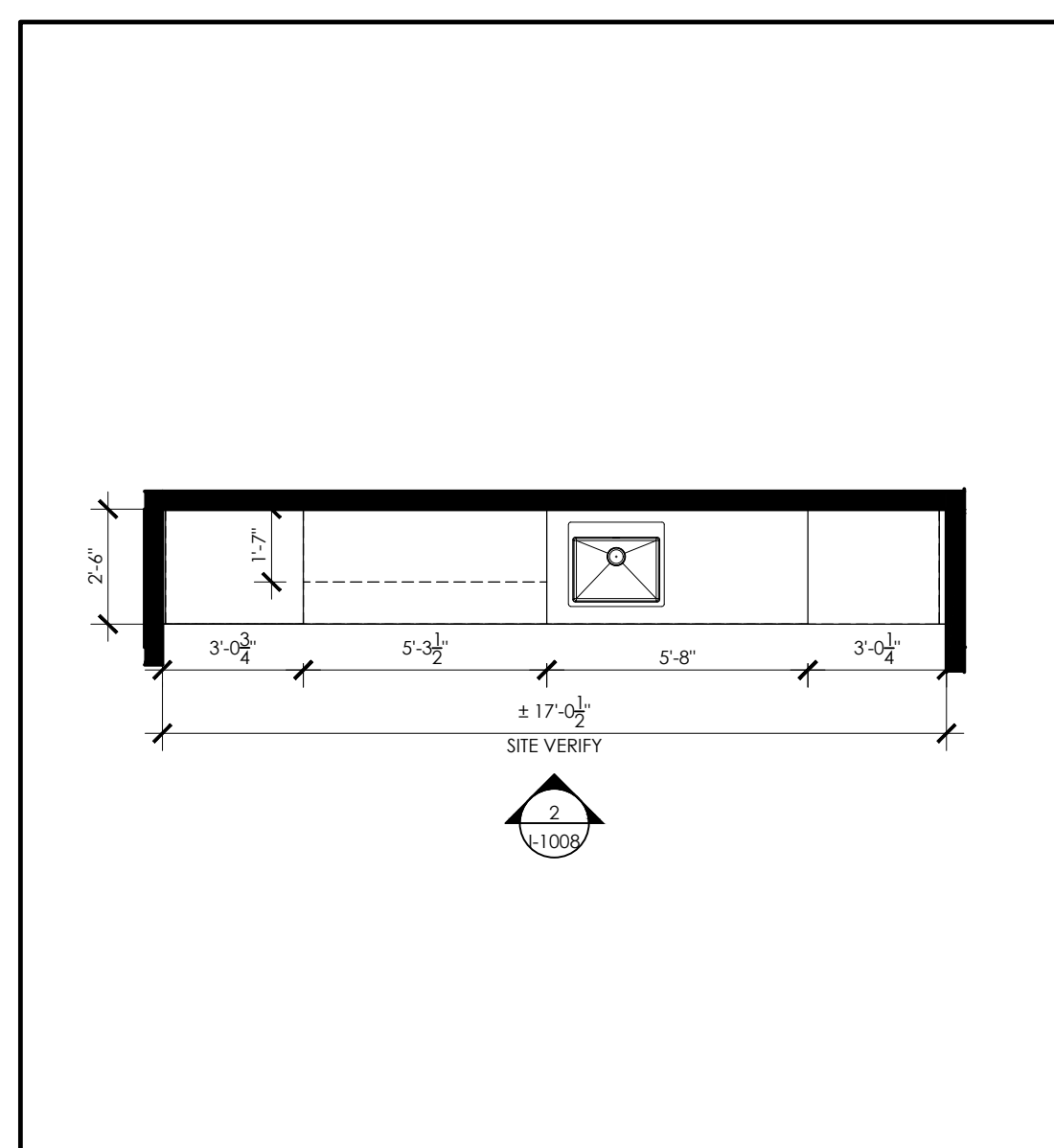
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03	16AUG24	AH	ISSUED FOR TENDER
02	13AUG24	AH	ISSUED FOR PERMIT
01	08AUG24	AH	ISSUED FOR 90% REVIEW



Project title
MPAC
1340 PICKERING PKWY
10TH FLOOR
PICKERING, ON

DOOR SCHEDULE

N	date	14FEB	project no.	24-1008
	drawn by	JC	cod file:	24-1008_1-1007
	checked by	AH	drawing no.	
	scale	1/8" = 1'-0"		I-1007



MILLWORK FINISHES LEGEND

SYMBOL	DESCRIPTION
(ML)	MELAMINE (CABINET INTERIORS) MANUFACTURER: PANOLAM COLOUR: WHITE
(PL)	PLASTIC LAMINATE FINISH #1 (VERTICAL) MANUFACTURER: WILSONART SERIES: STANDARD LAMINATE COLOUR: SAP WALNUT 821-38 FINISH: FINE VELVET FINISH
(SS)	SOLID SURFACE #1 MANUFACTURER: HANSTONE COLOUR: CALACATA GOLD FINISH: POLISHED SIZE: 2cm THICKNESS

MILLWORK HARDWARE LEGEND

SYMBOL	DESCRIPTION
	HINGES MANUFACTURER: RICHELIEU MODEL: HINGE W/ 125 GRADE OPENING MODEL: HINGE W/ 125 GRADE OPENING SECTION 3/MODEL B MANUFACTURER: BLUM DISTRIBUTOR: RICHELIEU
	HINGES (FOR DOORS OPENING INTO OBSTRUCTIONS) MANUFACTURER: RICHELIEU MODEL: CLIP TOP HINGE 110° #71358180, SPRING CLOSE C/W 86° OPENING ANGLE STOP #70335390 OR MODEL: 110° CLIP TOP BLUMOTION HINGE #71358180 C/W 86° OPENING ANGLE STOP #70335390
	GUIDES (ALL DRAWERS) STANDARD FULL EXTENSION DRAWER SLIDE
(PULL-1)	DOOR PULL #1 MANUFACTURER: RICHELIEU MODEL: MODERN METAL PULL - 8160 PRODUCT #: 8P8160Z8C8R2 SIZE: OVERALL LENGTH - 162mm FINISH: CHAMPAGNE BRONZE
(PULL-2)	DOOR PULL #2 MANUFACTURER: RICHELIEU MODEL: MODERN METAL PULL - 8160 PRODUCT #: 8P8160304C8R2 SIZE: OVERALL LENGTH - 162mm FINISH: CHAMPAGNE BRONZE
(BR-1)	BRACKET/BRACING FOR OPEN SHELF MANUFACTURER: RICHELIEU MODEL: TRADE MAXI CONCEALED MOUNTING BRACKET, 1/2" X 1/2" FINISH: NICKEL NOTE: CONTRACTOR TO CONFIRM REQUIRED QUANTITIES PER SHELF BASED ON MANUFACTURERS INSTRUCTION.
(CH-1)	SINGLE COAT HOOK MANUFACTURER: RICHELIEU MODEL: MODERN STAINLESS STEEL HOOK #51124 SIZE: 28mm DIAMETER FINISH: STAINLESS STEEL

MECHANICAL SPECIFICATIONS LEGEND

SYMBOL	DESCRIPTION
(SINK)	SINK #1 MFR: ELKAY PRODUCT CODE: ECTSAD25226TBG FINISH: STAINLESS STEEL SIZE: 25" X 22" X 6"
(FAUCET)	FAUCET #1 MFR: FRANK PRODUCT: FAUCET WITH PULL DOWN SPRAY - FFP3350 FINISH: STAINLESS STEEL

MILLWORK DEMOLITION LEGEND

SYMBOL	DESCRIPTION
(Hatched Box)	DENOTES AREA OF MILLWORK TO BE REMOVED IN ITS ENTIRETY

- MILLWORK NOTES**
- THE CONTRACTOR SHALL CONFIRM ALL COLOURS, FINISHES, HARDWARE AND MATERIALS REQUIRED TO PERFORM THE WORK AS SPECIFIED.
 - PRIOR TO FABRICATION OF MILLWORK THE CONTRACTOR MUST SUBMIT MILLWORK SHOP DRAWINGS FOR APPROVAL BY DESIGNER.
 - LOCATION OF LAMINATE SEAMS ON WORK SURFACES SHALL BE INSPECTED AND APPROVED BY DESIGNER.
 - ALL MILLWORK TO BE CONSTRUCTED OF 3/4" PLYWOOD WITH PLASTIC LAMINATE FINISH ON ALL EXPOSED FACES UNLESS NOTED OTHERWISE.
 - MILLWORK CONTRACTOR SHALL COORDINATE INSTALLATION OF MILLWORK THROUGH THE GENERAL CONTRACTOR TO ENSURE THAT ALL REQUIRED BLOCKING IS PROVIDED IN DESIGNATED WALLS TO ACCOMMODATE LIVE WEIGHT REQUIREMENTS OF ALL MILLWORK COMPONENTS AND EQUIPMENT.
 - AT COMPLETION, MILLWORK CONTRACTOR SHALL TOUCH UP AND RESTORE SURFACES WHERE DAMAGED AND LEAVE FINISHED SURFACES IN GOOD CONDITION.
- PLUMBING NOTES**
- PROVIDE FIXTURE AS SPECIFIED. ANY SUBSTITUTION IS TO BE EQUAL IN QUALITY AND WARRANTY AND MUST BE APPROVED BY BDA DESIGNER PRIOR TO PURCHASE.
 - PROVIDE SHIELDING FOR ALL SINK TRAPS AS PER ADA STANDARDS.



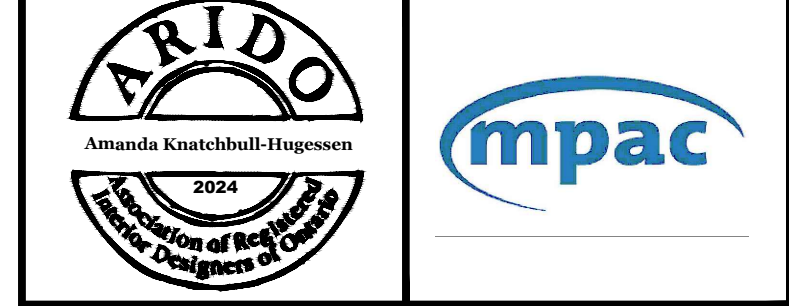
- GENERAL NOTES**
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 - DO NOT SCALE DRAWINGS.

no.	date	by	description

no.	date	by	description

no.	date	by	description

02	16AUG24	AH	ISSUED FOR TENDER
01	08AUG24	AH	ISSUED FOR 90% REVIEW



Project title
MPAC
1340 PICKERING PKWY
10TH FLOOR
PICKERING, ON

drawing title
MILLWORK DETAILS

date	14FEB24	project no.	24-1008
drawn by	JC	cad file	24-1008_1-1008
checked by	AH	drawing no.	I-1008
scale	1/8" = 1'-0"		



ALIGNED VISION

GROUP

AUDIO • VISUAL • ENTERTAINMENT
TECHNOLOGY SOLUTIONS

MPAC – 10TH FLOOR UPDATES
1340 PICKERING PARKWAY
PICKERING, ON

10TH FLOOR – UPGRADES – PHASE 2

AV DRAWINGS – ISSUED FOR COORDINATION – AUGUST 14TH, 2024

AUDIO VISUAL SYSTEMS DRAWINGS

DWG. #	DESCRIPTION	REV.	ISSUE DATE	INCLUDED IN THIS ISSUE
AV-001	AV DRAWING SCHEDULE	1	AUGUST 14, 2024	✓
AV-002	AV DEVICE TYPE, WIRE TYPE, AND - POWER AND COMMS SCHEDULES	1	AUGUST 14, 2024	✓
AV-110	10TH FLOOR - KEY PLAN	1	AUGUST 14, 2024	✓
AV-110A	10TH FLOOR - AV DEVICE LOCATIONS - PLAN	1	AUGUST 14, 2024	✓
AV-110B	10TH FLOOR - AV DEVICE LOCATIONS - RCP	1	AUGUST 14, 2024	✓
AV-210A	10TH FLOOR - RISER DRAWING	1	AUGUST 14, 2024	✓
AV-210B	10TH FLOOR - RISER DRAWING - CONTINUED	1	AUGUST 14, 2024	✓
AV-610A	MEETING ROOM - 1003 - ELEVATION & MOUNTING - DETAILS	1	AUGUST 14, 2024	✓

REV	DATE	DESCRIPTION
1	08/14/24	PHASE #2 - FOR COORDINATION
0	05/31/24	PHASE 1 - ISSUED FOR APPROVAL

REVISION HISTORY:

PROJECT:

MPAC - 10TH FLOOR UPDATES
1340 PICKERING PARKWAY
PICKERING, ON

SHEET NAME:

AV DRAWING SCHEDULE

PROJECT #: J1140
PLOTTED DATE: 8/14/2024 9:50:16 AM
LAST SAVED BY: AV GROUP
SCALE: NTS
DRAWN BY: DVJZ
DRAWING NUMBER: AV-001
SHEET REV: 1

REVISION HISTORY

#	ISSUE	DATE
△	PHASE 1 - ISSUED FOR APPROVAL	05/31/24
△	PHASE #2 - FOR COORDINATION	08/14/24

AV DEVICES INDEX

DEVICE	POWER	COMM	BACKBOX HEIGHT	CONDUIT	DESCRIPTION AND/OR NOTES
20N1 # -CEILING MOUNTED - SHURE WIRELESS MICROPHONE ANTENNA			EXISTING @CEILING	Free-Run	-
20N2 # -CEILING MOUNTED - HEARING ASSIST MAIN UNIT ANTENNA			@CEILING	Free-Run	-
20N3 # -CEILING MOUNTED - HEARING ASSIST EXTENDER ANTENNA			@CEILING	Free-Run	-
20M1 # -WALL MOUNTED - DUAL STACKED TRACKING CAMERAS			MP-2P @84" AFF	3/4" EMT	-
20M2 # -CEILING MOUNTED - AUTO-TRACKING CAMERA (EXISTING)			@CEILING	Free-Run	-
20M4 # -WALL MOUNTED - WIRELESS MICROPHONE CHARGING STATION	Ⓢ		MP-2P @TBD	1-1/4" EMT	(X1) 2-GANG MUDRING/LOW VOLTAGE BOX AND (X1) POWER RECEPTACLE PER SHELF - TO BE PROVIDED BY EC. REFER TO INTERIOR DRAWINGS FOR LAYOUT.
20M8 # -WALL MOUNTED - WIRELESS MICROPHONE CHARGING STATION	Ⓢ		MP-2P @TBD	1" EMT	(X1) 2-GANG MUDRING/LOW VOLTAGE BOX AND (X1) POWER RECEPTACLE PER SHELF - TO BE PROVIDED BY EC. REFER TO INTERIOR DRAWINGS FOR LAYOUT.
20F1 # -FLOOR RECESSED - FLOOR BOX (NEW)	Ⓢ	▲ ^{*2}	FLOOR BOX @FLOOR	1" EMT	NEW FLOOR BOX (TBD) - PROVIDE/DEDICATE (X2) KEYSTONE CONNECTIONS WITHIN FLOOR BOX FOR AV
20F4-EX # -FLOOR RECESSED - FLOOR BOX (EXISTING)	Ⓢ	▲ ^{*2}	FLOOR BOX @FLOOR	1" EMT	FLOOR BOX, POWER, COMMS AND CONDUIT EXISTING. NEW AV CABLING
20F5-EX # -FLOOR RECESSED - FLOOR BOX (EXISTING)	Ⓢ	▲ ^{*2}	FLOOR BOX @FLOOR	1" EMT	FLOOR BOX, POWER, COMMS AND CONDUIT EXISTING. NEW AV CABLING
20M3 # -CEILING MOUNTED - CEILING MICROPHONE ARRAY			@CEILING	Free-Run	-
20R1 # -CREDENZA RACK	Ⓢ	▲ ^{*2}	@RECEPTACLE	-	-
20R2 # -FREE STANDING - AV EQUIPMENT RACK	Ⓢ	▲ ^{*2}	EXISTING EXISTING	-	EXISTING RACK LOCATION. NEW POWER TO BE ADDED
20L1 # -CEILING RECESSED - CEILING LOUDSPEAKER			TILE BRIDGE @CEILING	Free-Run	-
20S1 # -CONDUIT STUB - BOARDROOM TABLE	Ⓢ ^{*2}	▲ ^{*2}	STUB @FLOOR	2" EMT	-
20S2 # -CONDUIT STUB - BOARDROOM TABLE	Ⓢ ^{*2}		STUB @FLOOR	2" EMT	-
20S3 # -CONDUIT STUB - PRESENTER TABLE	Ⓢ	▲	STUB @FLOOR	3/4" EMT	-
20P1 # -TOUCHPANEL			2-GANG @SWITCH HEIGHT	3/4" EMT	-
20P2 # -WALL MOUNTED - CONTROL TOUCHPANEL (EXISTING)			2-GANG @SWITCH HEIGHT	3/4" EMT	-
20T1 # -TABLE TOP USB ONLY	Ⓢ		IN TABLE	Free-Run	-
20T2 # -TABLE TOP USB AND HDMI	Ⓢ		IN TABLE	Free-Run	-
20V1 # -FLAT PANEL DISPLAY - CONFIDENCE MONITOR	Ⓢ	▲	N/A	Free-Run	-
20V2 # -FLAT PANEL DISPLAYS - VIDEO WALL	Ⓢ ^{*2}		N/A	1" EMT	-
20V3 # -WALL MOUNTED - LARGE FORMAT DVLED VIDEOWALL	Ⓢ ^{*2}		MP-2P @48" AFF	1" EMT	REFER TO ELEVATION FOR EXACT LOCATIONS OF POWER RECEPTACLES AND AV MUDRING
20V4 # -WALL MOUNTED - 65" VIDEO DISPLAY	Ⓢ		MP-2P @72" AFF	1" EMT	-
20V5 # -WALL MOUNTED - 65" VIDEO DISPLAY	Ⓢ		MP-2P @72" AFF	1" EMT	-

POWER AND COMMS INDEX

	LEGEND	BACKBOX	CABLE	DESCRIPTION AND/OR NOTES
Ⓢ	- DUPLEX OUTLET, 120V 15A - NEMA NUMBER - (5-15)	*1, *2	*1	
Ⓢ ₂₀	- DUPLEX OUTLET, 120V 20A - NEMA NUMBER - (5-20)	*1, *2	*1	
Ⓢ ₁₀	- SINGLE TWIST-LOCK OUTLET, 120V 20A - NEMA NUMBER - (L5-20)	*1, *2	*1	
▲	- AV DATA COMPLEMENT	*1, *2	*1	
▲	- CLIENT DATA COMPLEMENT	*1, *2	*1	

*1 - TO BE SPECIFIED/DETERMINED BY OTHERS
 *2 - POWER AND/OR COMMS TO BE TERMINATED IN LATERAL PROXIMITY OF AV BACKBOX
 *3 - TO BE SPECIFIED/DETERMINED BY AV CONTRACTOR UNLESS OTHERWISE NOTED
 *4 - POWER AND/OR COMMS TO BE TERMINATED WITHIN SPECIFIED AV BACKBOX

REV	DATE	DESCRIPTION
1	08/14/24	PHASE #2 - FOR COORDINATION
0	05/31/24	PHASE 1 - ISSUED FOR APPROVAL

REVISION HISTORY:

PROJECT:

MPAC - 10TH FLOOR UPDATES
 1340 PICKERING PARKWAY
 PICKERING, ON

SHEET NAME:

AV DEVICE TYPE,
 WIRE TYPE, AND
 POWER AND COMMS SCHEDULES

PROJECT #: J11140
 PLOTTED DATE: 8/14/2024 9:50:26 AM
 LAST SAVED BY: AV GROUP
 SCALE: NTS
 DRAWN BY: DVJZ
 DRAWING NUMBER: SHEET REV:

DIVISION OF RESPONSIBILITY

ITEM OF WORK	AV GROUP	ELECTRICAL CONTRACTOR	GENERAL CONTRACTOR
AV CONTROL SYSTEM, PAGE DESIGN AND TESTING	P PROVIDE; WRITE ALL PROGRAMMING CODE, DESIGN, AND IMPLEMENT	- -	- -
NEW - FLOOR BOXES	- -	P PROVIDE; ENSURE 2 KEYSTONE SLOTS AVAILABLE AT MINIMUM FOR AV	- -
EXISTING - FLOOR BOXES	- -	P PROVIDE; ENSURE 2 KEYSTONE SLOTS AVAILABLE AT MINIMUM FOR AV	- -
AV WALL BOX CONNECTOR PLATES, CUSTOM OR STANDARD	P PROVIDE; FINISH AS PER ARCHITECT'S INSTRUCTION	- -	- -
AV FLOOR BOX CONNECTOR PANELS, CUSTOM OR STANDARD	P PROVIDE	- -	- -
WALL-MOUNTED FLAT PANEL DISPLAYS	P SUPPLY AND INSTALL DISPLAY AND MOUNTS	- PROVIDE POWER TO EACH SCREEN LOCATION AS INDICATED ON AV DRAWINGS	- PROVIDE FULL WALL BLOCKING AS INDICATED ON AV DRAWINGS
EXISTING WALL-MOUNTED TOUCH PANEL CONTROL	P REPLACE AS REQUIRED	- -	- -
AV DEVICES IN MILLWORK	P FIT-UP MILLWORK WITH AV TECHNOLOGY DEVICES, COORDINATE WITH DESIGNERS, G.C., ELECTRICAL CONTRACTOR, AND MILLWORKER	- PROVIDE POWER AS REQUIRED	- PROVIDE AND COORDINATE CUTOUTS, AND WIRING CHASSIS
WALL MOUNT CAMERAS	P PROVIDE	- -	- PROVIDE BLOCKING AS REQUIRED
EXISTING - CEILING MOUNT CAMERA	P TO REMAIN AS INSTALLED	- -	- -
EXISTING - CEILING SPEAKERS	P TO REMAIN AS INSTALLED	- -	- -
CEILING MOUNTED MICROPHONE ARRAY	P PROVIDE	- -	- -
AV SYSTEMS BACK BOXES AND CONDUIT	- -	P PROVIDE ALL NEW AV CONDUIT, BOXES, AND INSTALL PULL STRING INTO ALL EMPTY AV CONDUITS AS INDICATED ON AV DRAWINGS	- -
AV SYSTEMS CABLE (LOW VOLTAGE)	P PROVIDE	- -	- -
POWER FOR AV SYSTEMS AT AV RACK LOCATION	- PROVIDE DISTRIBUTION WITHIN EQUIPMENT RACKS	P PROVIDE CIRCUITS AS REQUIRED AND TERMINATE TO PLYWOOD BACKING, REFER TO AV DRAWINGS	- -
LAN / TELCO DROP	- EXISTING TO REMAIN AND RETAIN CONNECTION TO AV SYSTEM	P PROVIDE, IF REQUIRED	- -
DRY CONTACT FROM FIRE ALARM SYSTEM	TC EXISTING TO REMAIN AND RETAIN CONNECTION TO AV SYSTEM	SI EXISTING TO REMAIN	- -

THE SCOPE OF WORK OF THE VARIOUS TRADES THAT RELATE TO THE AUDIO VISUAL (AV) IS DESCRIBED IN THE ABOVE TABLE.
THE TERM "PROVIDE" AS IT IS USED IN THIS DOCUMENT, DENOTES SUPPLY, INSTALL, TERMINATE, AND COMMISSION & TEST
S = SUPPLY I = INSTALL T = TERMINATE C = COMMISSION & TEST

REV	DATE	DESCRIPTION
1	08/14/24	PHASE #2 - FOR COORDINATION

REVISION HISTORY:

PROJECT:

MPAC - 10TH FLOOR UPDATES
1340 PICKERING PARKWAY
PICKERING, ON

SHEET NAME:

AUDIO VISUAL (AV)
DIVISION OF RESPONSIBILITY

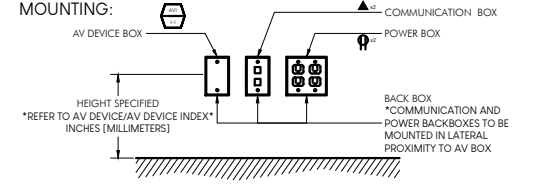
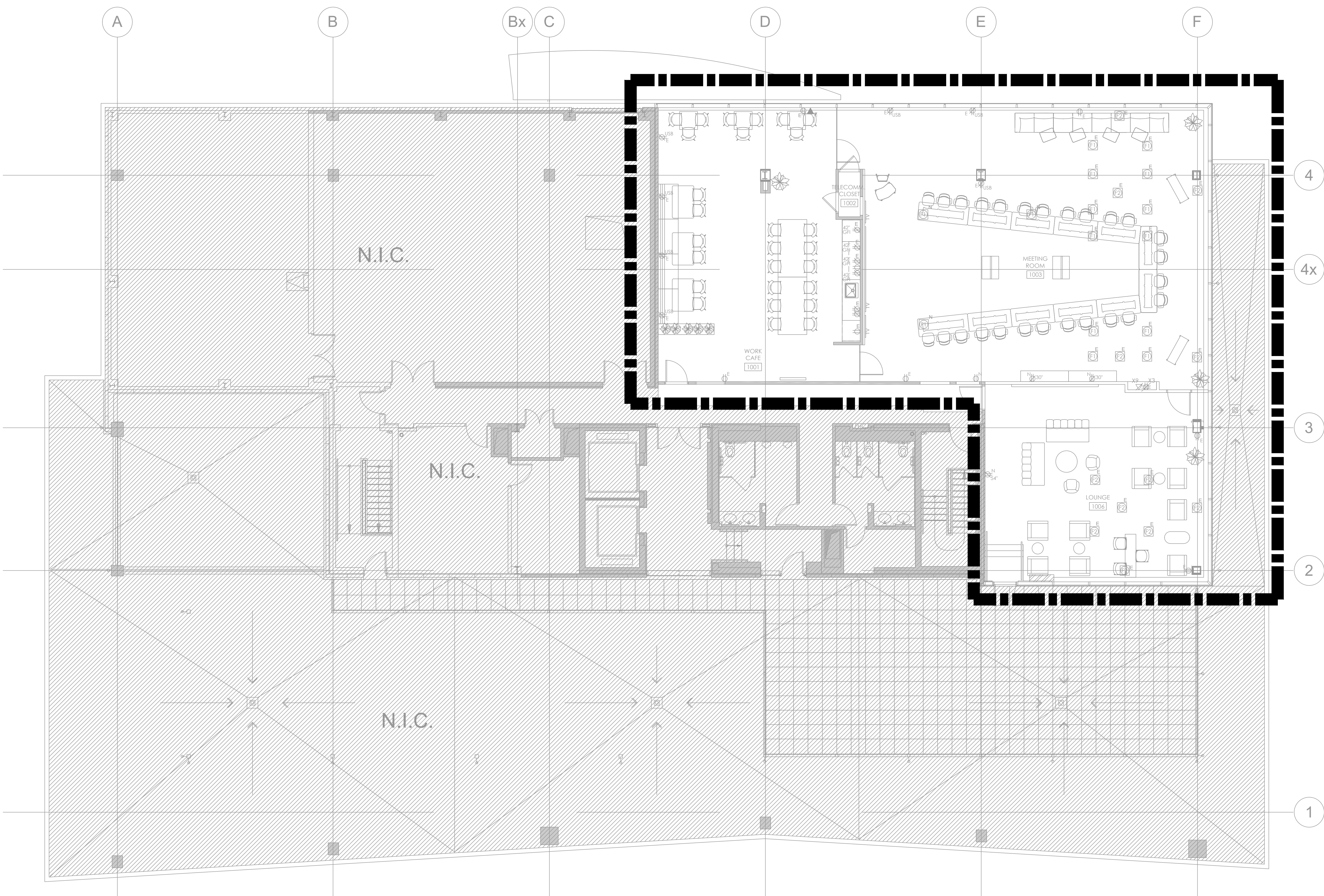
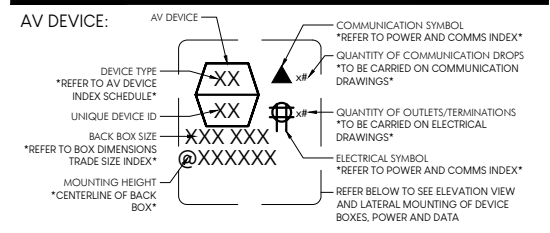
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LAST SAVED BY: AV GROUP
SCALE: NTS
DRAWN BY: DVJZ

DRAWING NUMBER: SHEET REV:

AV-003 1

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REV	DATE	DESCRIPTION
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REVISION HISTORY:

PROJECT:
 MPAC - 10TH FLOOR UPDATES
 1340 PICKERING PARKWAY
 PICKERING, ON

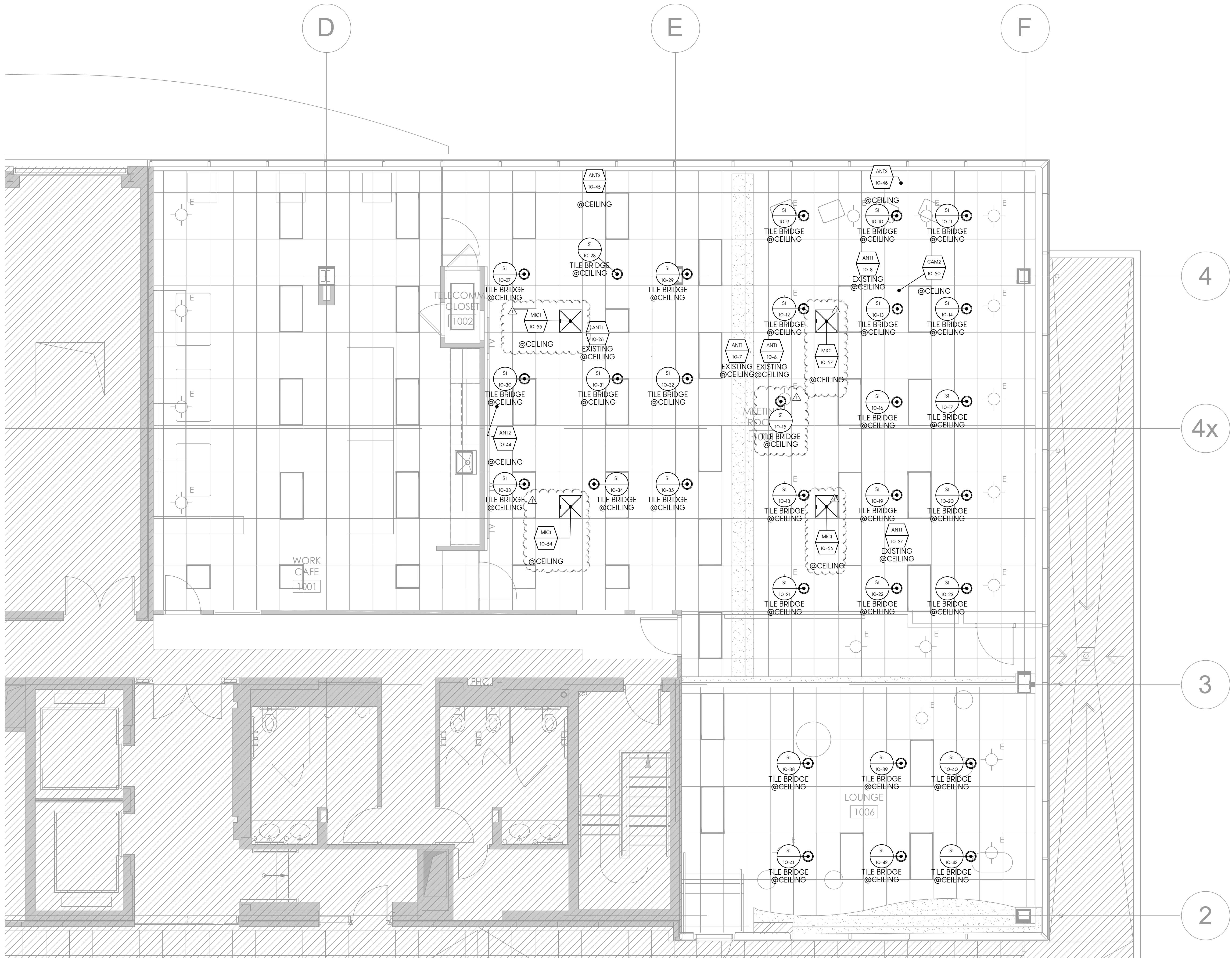
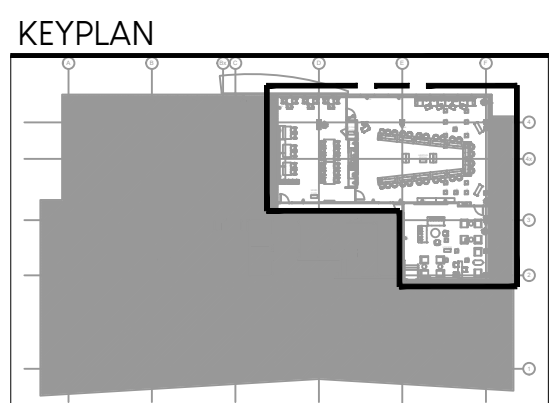
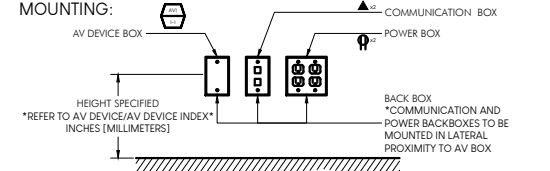
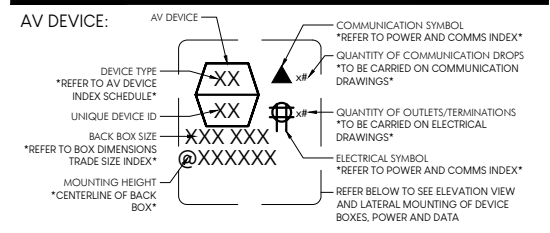
SHEET NAME:
 10TH FLOOR
 KEY PLAN

PROJECT #: J1140
 PLOTTED DATE: 8/14/2024 9:50:20 AM
 LAST SAVED BY: AV GROUP
 SCALE: NTS
 DRAWN BY: DVJZ

DRAWING NUMBER: AV-110
 SHEET REV: 1

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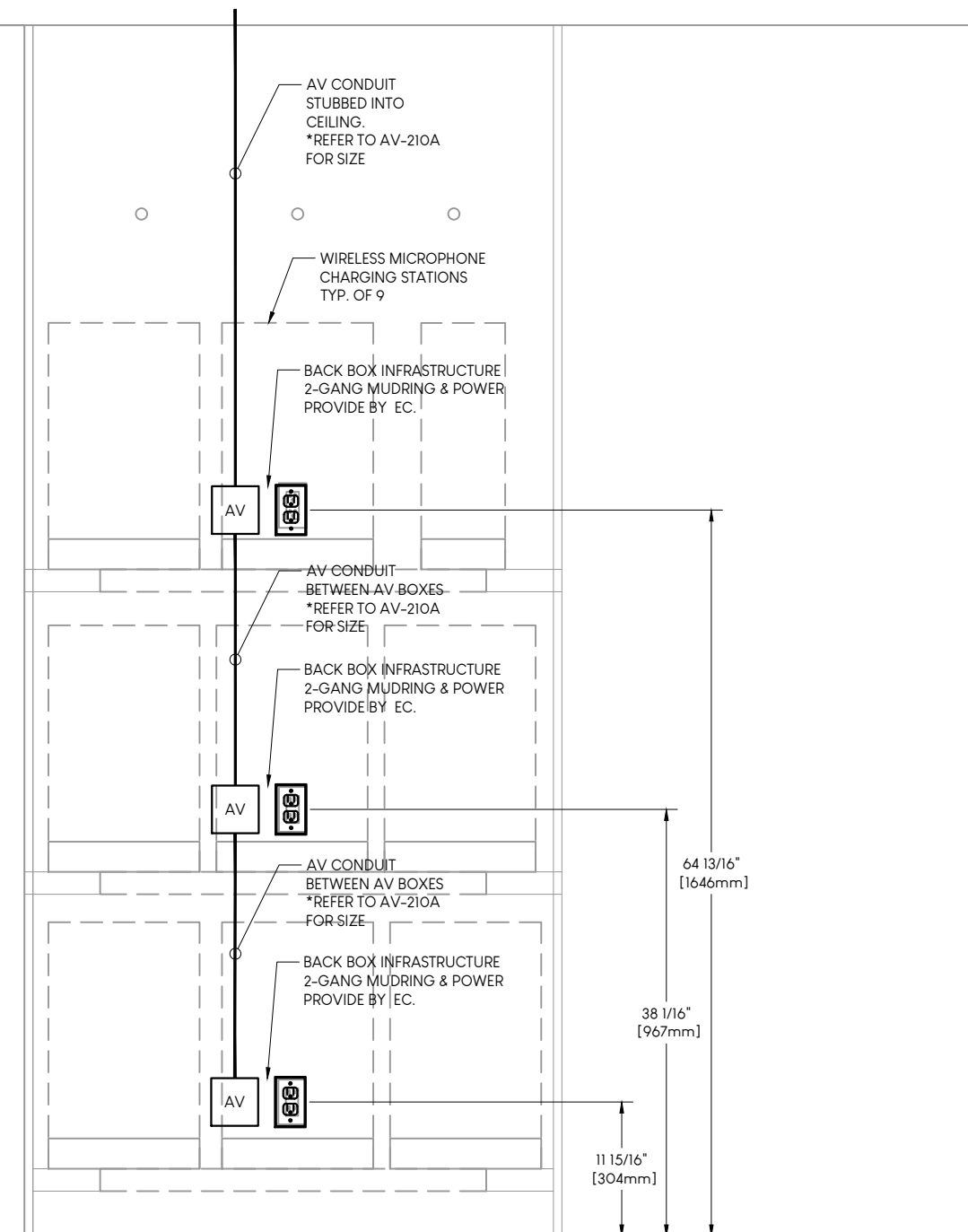
REV	DATE	DESCRIPTION
1	08/14/24	PHASE #2 - FOR COORDINATION
0	05/31/24	PHASE 1 - ISSUED FOR APPROVAL

REVISION HISTORY:
 PROJECT:

MPAC - 10TH FLOOR UPDATES
 1340 PICKERING PARKWAY
 PICKERING, ON

SHEET NAME:
 10TH FLOOR
 AV DEVICE LOCATIONS
 RCP

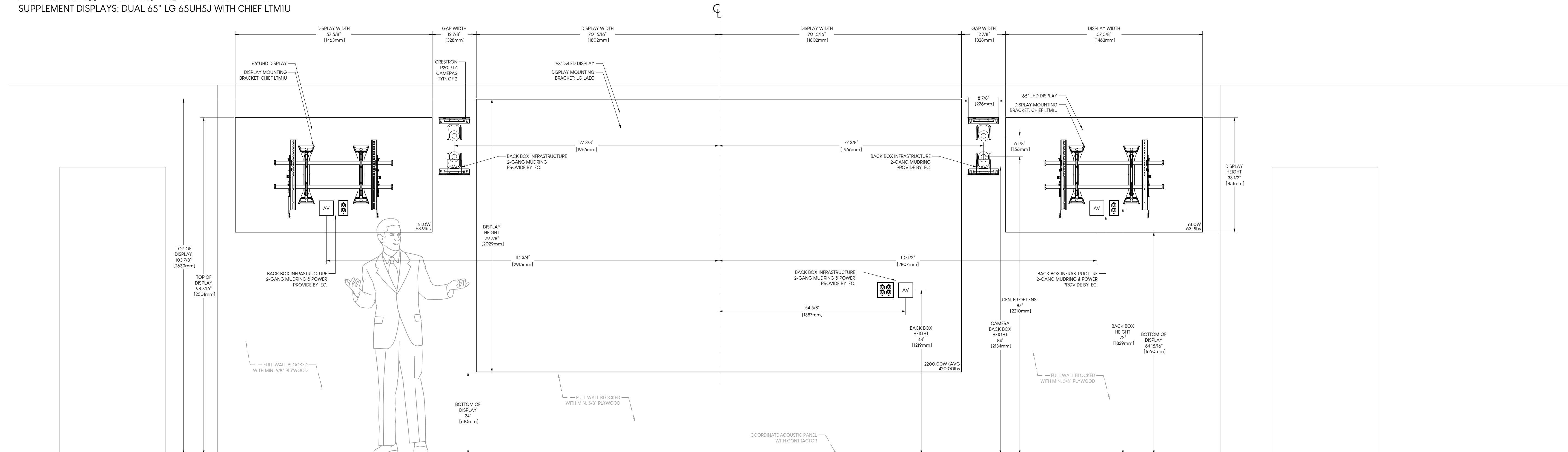
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 PLOTTED DATE: 8/14/2024 9:50:29 AM
 LAST SAVED BY: AV GROUP
 SCALE: NTS
 DRAWN BY: DVJZ
 DRAWING NUMBER: SHEET REV: 1



2 MICROPHONE CLOSET - ELEVATION VIEW / DETAIL
 AV-610A SCALE: NTS

ROOM NAME: MEETING ROOM
 ROOM NUMBER: 1003

MAIN DISPLAY: 163" LG LAECO18-GN2 WITH LG LAEC MOUNT
 SUPPLEMENT DISPLAYS: DUAL 65" LG 65UH5J WITH CHIEF LTMU



1 MEETING ROOM - ELEVATION VIEW
 AV-610A SCALE: NTS

REV	DATE	DESCRIPTION
1	08/14/24	PHASE #2 - FOR COORDINATION
0	05/31/24	PHASE 1 - ISSUED FOR APPROVAL

REVISION HISTORY:

PROJECT:

MPAC - 10TH FLOOR UPDATES
 1340 PICKERING PARKWAY
 PICKERING, ON

SHEET NAME:

MEETING ROOM - 1003
 ELEVATION & MOUNTING
 DETAILS

PROJECT #:	J11140
PLOTTED DATE:	8/14/2024 9:50:24 AM
LAST SAVED BY:	AV GROUP
SCALE:	NTS
DRAWN BY:	DV/JZ
DRAWING NUMBER:	AV-610A
SHEET REV:	1

GENERAL NOTES	
1.	ARCHITECTURAL GENERAL INSTRUCTIONS SHALL BE READ IN CONJUNCTION WITH AND FORM PART OF THIS CONTRACT. SPECIFICATIONS AND STANDARD DRAWINGS OF LOCAL AUTHORITIES HAVING JURISDICTION SHALL BE READ IN CONJUNCTION WITH AND FORM PART OF THIS CONTRACT. MAXIMUM CONDITIONS WILL GOVERN.
2.	SPECIFICATIONS ARE INTEGRAL PART OF ACCOMPANYING DRAWINGS. ANY ITEM OMITTED FROM ONE OR OTHER, BUT WHICH IS MENTIONED OR REASONABLY IMPLIED SHALL BE CONSIDERED AS PROPERLY AND SUFFICIENTLY SPECIFIED.
3.	PROVIDE ALL WORK AS INDICATED AND SPECIFIED HEREIN. INCLUDE SYSTEM COMPONENTS AND ACCESSORIES NOT INDICATED ON DRAWINGS OR STIPULATED HEREIN BUT REQUIRED TO ENSURE FULLY OPERATIONAL SYSTEMS.
4.	ALL WORK AND EQUIPMENT SHALL BE IN CONFORMANCE WITH ASHRAE 90.1.
5.	CONFER AND CO-OPERATE WITH ALL TRADES INSTALLING EQUIPMENT WHICH MAY AFFECT THE MECHANICAL WORK AND ARRANGE THE WORK IN PROPER RELATION WITH EQUIPMENT INSTALLED UNDER ALL DIVISIONS OF THE CONTRACT FOR THE SATISFACTORY COMPLETION OF THE JOB. IDENTIFY AND RESOLVE SITE INTERFERENCES PRIOR TO FABRICATION AND INSTALLATION OF EQUIPMENT. CO-ORDINATE INSTALLATION WITH OWNER'S INTERIOR DESIGN PLANS AND REFLECTED CEILING PLANS.
6.	"WORK" MEANS ALL PERMITS, EQUIPMENT, MATERIALS, LABOUR, START-UP AND TESTING TO PROVIDE A COMPLETE MECHANICAL INSTALLATION AS REQUIRED.
7.	"PROVIDE" MEANS SUPPLY AND INSTALL, WHERE USED IN REFERENCE TO SERVICES SUCH AS TESTING, START-UP AND COMMISSIONING, IT MEANS PROCEDURE, SUPERVISION, TAKE RESPONSIBILITY AND PAY FOR THESE SERVICES.
8.	"SUPPLY" MEANS FURNISH TO SITE IN LOCATION REQUIRED OR DIRECTED COMPLETE WITH ACCESSORY PARTS.
9.	"INSTALL" MEANS MOUNT, SECURE IN PLACE AND CONNECT FOR OPERATION AS REQUIRED OR DIRECTED.
10.	"CONCEALED" MEANS NOT VISIBLE ON COMPLETION.
11.	"EXPPOSED" MEANS VISIBLE ON COMPLETION.
12.	"AUTHORITIES HAVING JURISDICTION" MEANS ANY AND ALL CURRENT LAWS AND/OR BY-LAWS OF ANY AUTHORIZED AGENCY HAVING OR CLAIMING JURISDICTION OVER SUM TOTAL OR PARTS OF WORK.
13.	APPLY FOR, OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED. INCLUDE ALL H.S.T.
14.	COMPLY WITH ALL GOVERNMENT, MUNICIPAL, PROVINCIAL, FEDERAL AND UNDERWRITERS REGULATIONS AND LOCAL BY-LAWS. CARRY OUT ALL CHANGES REQUIRED BY INSPECTORS OR AUTHORITIES HAVING JURISDICTION WITHOUT EXTRA EXPENSE TO THE OWNER. PREPARE AND FURNISH ANY ADDITIONAL DRAWINGS, DETAILS OR INFORMATION AS MAY BE REQUIRED. NOTIFY CONSULTANT OF CHANGES REQUIRED PRIOR TO MAKING CHANGES.
15.	FURNISH NECESSARY CERTIFICATES AS EVIDENCE THAT WORK INSTALLED CONFORMS WITH LAWS AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
16.	ALL ELECTRICAL ITEMS SHALL BE CSA APPROVED OR BEAR A STAMP TO INDICATE SPECIAL ELECTRICAL SAFETY AUTHORITY APPROVAL.
17.	PRIOR TO TENDER SUBMISSION VISIT AND EXAMINE THE SITE AND PLANS, BECOME FAMILIAR WITH ALL FEATURES WHICH AFFECT THE WORK, VERIFY ALL CONDITIONS AND DIMENSIONS, AND ALLOW FOR ANY RE-ROUTING OF INSTALLED SERVICES AND EQUIPMENT IN TENDER PRICE. FAILURE TO DO SO SHALL BE AT RISK OF THE CONTRACTOR. PRIOR TO APPROVAL OF BIDDERS, CONTRACTOR WILL BE ALLOWED FOR ANY DIFFICULTIES ENCOUNTERED DUE TO ANY FEATURES OF THE BUILDING OR THE SITE OR THE ADJACENT PROPERTIES WHICH EXISTED AT THE TIME OF TENDER.
18.	REPORT TO THE ENGINEER ALL AMBIGUITIES, DISCREPANCIES, OMISSIONS, ERRORS AND DEPARTURES FROM BUILDING BYLAWS AND/OR FROM GOOD PRACTICE PRIOR TO TENDER CLOSING.
19.	IN CASE OF APPARENT CONTRADICTION OR AMBIGUITY IN TENDER DOCUMENTS, OR WHERE THERE ARE APPARENT DISCREPANCIES IN OR OMISSIONS FROM DOCUMENTS, OR IF THERE IS ANY DOUBT AS TO INTENT OF DOCUMENTS, REQUEST AND OBTAIN WRITTEN CLARIFICATION FROM CONSULTANT PRIOR TO SUBMITTING YOUR TENDER. CONSIDERATIONS WILL NOT BE GRANTED FOR MISUNDERSTANDING OF INTENT OF DOCUMENTS OR EXTENDED WORK.
20.	PROVIDE A COMPLETE BREAKDOWN OF MATERIALS, EQUIPMENT AND LABOUR COSTS WITH EACH SUBMISSION FOR EXTRA OR DELETED WORK. FAILURE TO DO SO WILL RESULT IN BACKCHARGES FOR ADDITIONAL CONSULTING SERVICES TO BE PERFORMED.
21.	PROVIDE PROPER SHOP DRAWINGS OF ALL SPECIFIED PRODUCTS AND SUBMIT FOR REVIEW TO THE ARCHITECT AND ENGINEER. SUBMIT SHOP DRAWINGS IN ELECTRONIC ("PDF") FILE FORMAT. SHOP DRAWINGS ARE TO INDICATE PROJECT SPECIFIC TECHNICAL DATA. CLEARLY MARK ITEMS BEING SUPPLIED, NORMAL AND OPTIONAL ACCESSORIES. DO NOT SUBMIT SALES LITERATURE.
22.	REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL AND CLEARLY CERTIFY AS "CORRECT FOR REVIEW BY CONSULTANT". SHOP COMPANY NAME, DATE AND SIGN ALL SHOP DRAWINGS.
23.	REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS FOR THE SOLE PURPOSE OF PERFORMANCE WITH GENERAL DESTINATION. SUCH REVIEW DOES NOT MEAN THAT CONSULTANT APPROVES DETAIL DESIGN INHERENT IN SHOP DRAWINGS. RESPONSIBILITY FOR WHICH REMAINS WITH THE CONTRACTOR. CONSULTANT'S REVIEW DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR ERRORS OR OMISSIONS CONTAINED IN SHOP DRAWINGS OR OF THE RESPONSIBILITY FOR MEETING ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL DIMENSIONS AT JOB SITE. FOR INFORMATION PERTAINING SOLELY TO FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION AND INSTALLATION, AND FOR CO-ORDINATION WITH RELATED TRADES.
24.	THE MECHANICAL CONTRACTOR IS TO CIRCULATE REVIEWED AND STAMPED SHOP DRAWINGS TO ALL ELECTRICAL, STRUCTURAL ENGINEERS AND TO CONTRACTORS FOR REVIEW PRIOR TO ORDERING ANY EQUIPMENT. REPORT ANY DISCREPANCIES TO THE ENGINEER.
25.	MATERIALS AND EQUIPMENT SPECIFICALLY DESCRIBED FOR PURPOSE OF INDICATING STANDARDS OF QUALITY AND WORKMANSHIP. BASE TENDER PRICE ON MATERIALS AND EQUIPMENT SPECIFIED OR NAMED AS ACCEPTABLE ALTERNATES. IF ACCEPTABLE ALTERNATE PRODUCT IS PROPOSED, INDICATE REASON FOR CHANGE, SHOP SAVINGS AND CLEARLY INDICATE ALL AREAS WHERE ALTERNATE PRODUCT DOES NOT MEET SPECIFIED PRODUCT. IF ACCEPTABLE ALTERNATE MANUFACTURER IS NOT LISTED, BASE THE TENDER PRICE ON THE PRODUCT SPECIFIED.
26.	DESIGN IS BASED ON DIMENSIONS AND PHYSICAL CONFIGURATION OF MANUFACTURER'S EQUIPMENT SPECIFIED. ASSUME FULL RESPONSIBILITY FOR ENSURING THAT PRODUCTS SUPPLIED BY AN ALTERNATE MANUFACTURER ARE EQUIVALENT IN PERFORMANCE AND OPERATING CHARACTERISTICS TO THE SPECIFIED PRODUCT. ASSUME FULL RESPONSIBILITY FOR ENSURING THAT THE SAME ACCESS AND MAINTENANCE SPACE IS ACHIEVED WHERE ALTERNATE PRODUCT IS PROVIDED.
27.	ALTERNATE PRODUCTS/EQUIPMENT MAY BE PROPOSED PRIOR TO PROGRESS OF WORK PROVIDING THE QUALITY AND PERFORMANCE CHARACTERISTICS ARE EQUAL TO THE SPECIFIED PRODUCTS AND SUBJECT TO THE APPROVAL OF THE PROPERLY SUBMITTED SHOP DRAWINGS TO THE ARCHITECT AND ENGINEER.
28.	DURING PROGRESS OF WORK, SUBSTITUTE PRODUCTS/EQUIPMENT WILL ONLY BE CONSIDERED WHEN TENDERED PRODUCTS BECOME UNOBTAINABLE AND WRITTEN PROOF IS SUBMITTED.
29.	ASSUME RESPONSIBILITY AND PAY FOR ANY ADDITIONAL INSTALLATION COSTS INCURRED BY ALL DIVISIONS RESULTING FROM THE ALTERNATE PRODUCT OR SUBSTITUTIONS. MAKE REVISIONS TO RECORD DRAWINGS INCORPORATING ALL ALTERNATES AND/OR SUBSTITUTIONS AND ALL RELATED CHANGES.
30.	CONTRACTOR WILL PAY TO THE ARCHITECT AND ENGINEERS FOR THEIR TIME SPENT FOR REVIEW OF ALTERNATE EQUIPMENT EVEN IF SUCH EQUIPMENT IS NOT ACCEPTABLE.
31.	WHERE MATERIALS AND EQUIPMENT ARE SUPPLIED BY OTHERS FOR INSTALLATION BY THIS CONTRACTOR, RECEIVE, UNLOAD, HANDLE, STORE, AND PROTECT MATERIALS AND EQUIPMENT UNTIL READY FOR ACTUAL INSTALLATION. UPON RECEIPT OF MATERIALS CHECK THE ENTIRE SHIPMENT AND PROMPTLY ADVISE THE CONSULTANT WRITING OF ANY DAMAGE AND/OR MISSING COMPONENTS. ANY MATERIAL WHICH IS SUBSEQUENTLY LOST OR DAMAGED DUE TO THIS CONTRACTOR'S NEGLIGENCE IS TO BE PROMPTLY REPLACED OR REPAIRED TO THE CONSULTANT'S SATISFACTION AT NO ADDITIONAL COST. INCLUDE FOR ONE YEAR WARRANTY ON RELATED LABOUR.
32.	DRAWINGS INDICATE DESIGN INTENT ONLY AND ARE TO BE CONSIDERED DIAGRAMMATIC INTENDED TO CONVEY SCOPE OF WORK AND INDICATE GENERAL ARRANGEMENT AND APPROXIMATE LOCATIONS OF EQUIPMENT AND ROUTES OF PIPES AND DUCTS. DRAWINGS DO NOT SHOW ARCHITECTURAL AND STRUCTURAL DETAILS.
33.	DO NOT SCALE DRAWINGS. OBTAIN INFORMATION INVOLVING ACCURATE MEASUREMENTS OF BUILDING FROM ARCHITECTURAL AND STRUCTURAL DRAWINGS OR AT THE SITE. MAKE NECESSARY CHANGES TO ACCOMMODATE STRUCTURAL CONDITIONS WITHIN ADDITIONAL CHARGE.
34.	CONTRACTOR IS TO PREPARE A SCHEDULE OF VALUES AND SUBMIT TO CONSULTANT TEAM FOR REVIEW AND ADJUSTMENT PRIOR TO FIRST APPLICATION FOR PAYMENT. SCHEDULE OF VALUES MUST INCLUDE, AMONG OTHER ITEMS, VALUE ASSIGNED TO CLOSE-OUT DOCUMENTS (AS-BUILT DRAWINGS, WARRANTIES, MAINTENANCE MANUALS, ETC.). THE AGREED UPON SCHEDULE OF VALUES WILL FORM THE BASIS FOR FACTORING PERCENTAGE OF WORK COMPLETED INTO CERTIFICATES FOR PAYMENT.

GENERAL NOTES	
35.	PROVIDE THE OWNER WITH A WRITTEN WARRANTY, FOR ALL LABOUR, MATERIALS AND EQUIPMENT IN THIS CONTRACT FOR A PERIOD OF ONE YEAR COMMENCING AT SUCH TIME THAT THE OWNER, OR HIS REPRESENTATIVE, DEEMS THE WORK ACCEPTABLE.
36.	PROVIDE ALL ITEMS, ARTICLES, MATERIALS, OPERATIONS OR METHODS LISTED, MENTIONED OR SCHEDULED ON THE DRAWINGS AND/OR HEREIN SPECIFIED, INCLUDING ALL LABOUR, MATERIALS, EQUIPMENT, AND INCIDENTALS, NECESSARY AND REQUIRED FOR THEIR COMPLETION (CURBS, MOUNTINGS, SUPPORTS, ETC.).
37.	EXISTING SERVICES SHALL BE FIELD CHECKED BEFORE WORK COMMENCEMENT INCLUDING LOCATION, SIZE AND ELEVATION OF RELEVANT PIPING, VALVES, MANHOLES, ETC. ALSO PROPOSED ELEVATIONS SHALL BE VERIFIED FOR FLOOR DRAINS, CATCH BASINS, GRADE AND MANHOLES TOP ELEVATIONS.
38.	CONSERVE HEADROOM AND MAINTAIN SERVICE SPACE AROUND SERVICEABLE EQUIPMENT AS PER MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION.
39.	BEAR THE COST OF CLEAN-UP, (FLOORS, WALLS, CEILINGS ETC.), CUTTING, PATCHING AND FLASHING OF BUILDING STRUCTURE AND ROOF. EMPLOY THE OWNER'S GENERAL CONTRACTOR TO DO THE WORK. INFORM THE ENGINEER PRIOR TO PROCEEDING.
40.	ENSURE THAT THE LABOUR UNION AFFILIATION IS COMPATIBLE WITH THAT OF THE OWNER'S GENERAL CONTRACTOR.
41.	ALL ELECTRICAL DISCONNECT SWITCHES AND ALL MANUAL OR AUTOMATIC STARTERS FOR MECHANICAL EQUIPMENT SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.
42.	ALL LINE SIDE POWER WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR AND SHALL BE INSTALLED IN A JUNCTION BOX AS PER TO THE BUILDING CODE OR AT THE STARTER OR AT THE DISCONNECT SWITCH OR AT THE PACKAGED EQUIPMENT CONTROL PANEL, AS INDICATED ON MECHANICAL AND/OR ELECTRICAL DRAWINGS. WHEN A JUNCTION BOX IS PROVIDED BY DIV-16 (REFER TO ELECTRICAL DRAWINGS), DIV-15 SHALL PROVIDE CONNECTION BETWEEN EQUIPMENT AND JUNCTION BOX. ALL LOAD SIDE AND CONNECTIONS BEING SHALL BE BY THE MECHANICAL CONTRACTOR.
43.	PROVIDE WHERE SHOWN AND/OR REQUIRED BY SITE CONDITIONS, ALL ACCESS DOORS COMPATIBLE WITH CEILING/WALL TIES AND FINISHES. MARK IN AN APPROVED MANNER, T-BAR CEILING TIES WHICH ARE USED FOR ACCESS. PROVIDE MILDOR, LEHAR OR APPROVED EQUAL ACCESS DOORS. PROVIDE MINIMUM SIZE OF CEILING ACCESS OF 4" SQUARE FEET.
44.	THIS CONTRACTOR SHALL COMPLY WITH LANDLORD'S GENERAL REQUIREMENTS FOR WORK TO BASE BUILDING SYSTEMS.
45.	INCLUDE FOR PREMIUM TIME FOR WORK REQUIRED OUTSIDE OF NORMAL BUSINESS HOURS. INCLUDE FOR THE OFFICER NECK TO WHICH IT CONNECTS TO UNLESS OTHERWISE SHOWN. SUPPORT FLEXIBLE DUCT AT MAXIMUM 5'-0" SPACING.
46.	USE GEAR CLAMPS FOR SECURING FLEXIBLE DUCTS TO RIGID DUCT CONNECTIONS SUCH AS SPRING-ON FITTINGS, ETC. AND NICKS OF DIFFUSERS AND SEAL AIR TIGHT WITH DUCT TAPE. ROUND FLEXIBLE DUCTS SHALL BE 3.0M (10') LONG AND REMOVAL SHALL BE ROUND RIGID DUCT OF THE SAME DIAMETER.
47.	PROVIDE BALANCING DAMPERS IN ALL BRANCHES OF THE MAIN DUCTWORK WITH SUITABLE MEANS OF CEILING ACCESS FOR BALANCING, AND VOLUME DAMPERS FOR ALL SUPPLY AIR DUCTS.
48.	PROVIDE GRILLES, DIFFUSERS, REGISTERS AND DOOR GRILLES OF SIZE AND TYPE CALLED FOR ON THE DRAWINGS. HAND OVER DOOR GRILLES TO THE GENERAL CONTRACTOR FOR INSTALLATION IN THE DOORS.
49.	PROVIDE ALL CONTROL WIRING AND APPURTENANCES NECESSARY FOR COMPLETE AND OPERATING SYSTEMS. CONNECT ALL ROOM THERMOSTATS, DAMPERS, BASEBOARD HEATERS AND OTHER CONTROL DEVICES AS NECESSARY.
50.	INSTALL AIR TERMINALS IN STRICT ACCORDANCE WITH FINAL REFLECTED ARCHITECTURAL LAYOUT PLANS.
51.	PROVIDE TRANSFER AIR DUCT IN CEILING SPACE FOR ALL WALLS EXTENDING TO UNDERSIDE OF DECK OR FLOOR SLAB ABOVE. TRANSFER AIR DUCTS ARE TO BE PROVIDED WHETHER OR NOT THEY ARE SHOWN ON PLANS. TRANSFER AIR DUCT SHALL BE MINIMUM 2" x 12" SHAPED CONSTRUCTION WITH MINIMUM 3/8" LONG SIZES C/W 1" ACOUSTICAL LINING.
52.	PROVIDE ROOF CURBS FOR ROOF MOUNTED EQUIPMENT, DUCT AND PIPE PENETRATIONS. PRE-MANUFACTURED CURBS ARE TO BE PROVIDED FOR MECHANICAL AND EQUIPMENT MOUNTED ON ROOF AND TO BE SUPPLIED BY EQUIPMENT MANUFACTURER. ROOF CURB IS TO BE AT LEAST 14" ABOVE FINISHED ROOF. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF ROOF CURBS WITH ROOFING CONTRACTORS.
53.	BALANCING
54.	TEST, BALANCE AND ADJUST ALL AIR, HYDRO-PNEUMATIC AND PLUMBING SYSTEMS ENTIRELY TO OBTAIN THE DESIGN FLOW QUANTITIES. MARK THE FINAL BALANCE POSITION ON ALL BALANCING DAMPERS AND ADJUSTABLE AIR TURNING DEVICES AND MAKE FITTING ENGINEER PRIOR TO CONSTRUCTION. TEST AND BALANCE REPORT TO THE ENGINEER AND PROJECT CO-ORDINATOR. INDICATE ALL TEST RESULTS CLOSEST AND FURTHEST OUTLET SUPPLY AIR TEMPERATURES AND ROOM TEMPERATURES FOR ALL AIR SYSTEMS. INCLUDE FOR REPLACEMENT OF DRIVE KITS. INCLUDE ADDITIONAL BALANCING AS PART OF SCOPE AT LEAST ONE (1) MONTH FOLLOWING OCCUPANCY. THIS WORK SHALL BE PERFORMED BY AN AGENCY CURRENTLY A MEMBER OF AND IN GOOD STANDING WITH EITHER THE ASSOCIATED AIR BALANCE, CHUBB OR NATIONAL ENVIRONMENTAL BALANCING BUREAU. TESTING AND BALANCING CONTRACTOR SHALL BE APPROVED BY THE LANDLORD AND HIRED AT THE EXPENSE OF DIVISION 15.
55.	CONTROLS
56.	A. THE MECHANICAL CONTRACTOR IS TO PROVIDE ALL CONTROL WIRING REGARDLESS OF VOLTAGE. THIS INCLUDES ALL INTERLOCKS BETWEEN MAKE-UP AIR UNITS AND EXHAUST FANS; MOTORIZED DAMPERS AND FANS AND ALL OTHER INTERLOCKS BETWEEN MECHANICAL EQUIPMENT.
57.	B. CONTROL WIRING BELOW 50 VOLTS RELATED TO CONTROL SYSTEMS SHALL BE PROVIDED IN ACCORDANCE WITH LATEST EDITION OF CSA C22.1, NATIONAL ELECTRICAL SAFETY CODE AND REQUIREMENTS OF ELECTRICAL SAFETY AUTHORITY.
58.	C. ELECTRONIC MOTORIZED DAMPER ACTUATOR SHALL BE EQUAL TO BELIMO MANUFACTURER. ACTUATOR TO BE SIZED FOR TORQUE REQUIRED TO COMPLETELY SEAL DAMPER AT LOAD CONDITION. ACTUATOR TO BE RATED FOR APPLICATION. CONSULT WITH DAMPER MANUFACTURER. LINE SIDE POWER WIRING FOR LINE VOLTAGE ACTUATORS SHALL BE BY THE ELECTRICAL CONTRACTOR FOR ACTUATORS REQUIRING LOW VOLTAGE POWER THE ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING AND TERMINATED AT A JUNCTION BOX ADJACENT TO THE ACTUATOR. ALL LOW VOLTAGE WIRING AND TRANSFORMER SHALL BE BY THE MECHANICAL CONTRACTOR.
59.	D. MANUFACTURE AND INSTALLATION WHEN REQUIRED SHALL BE BY OWNER'S/LANDLORD'S APPROVED CONTRACTOR.
60.	E. NEW THERMOSTATS SHALL MATCH BASE BUILDING AND SHALL BE PROVIDED BY OWNER'S/LANDLORD'S APPROVED CONTRACTOR.
61.	F. CONNECT ALL NEW AND RELOCATED EQUIPMENT TO EXISTING BUILDING AUTOMATION SYSTEM (BAS). BAS GRAPHICS SHALL BE UPDATED TO REFLECT NEW SPACES, ROOMS, THERMOSTATS/SENSORS AND EQUIPMENT. ALL BAS WORK SHALL BE CARRIED OUT BY OWNER'S/LANDLORD'S APPROVED CONTRACTOR.
62.	G. MOUNTING HEIGHT OF OCCUPANT ADJUSTABLE THERMOSTATS SHALL BE 1200MM [3 FT. 11 IN.] FROM FINISHED FLOOR. MOUNTING HEIGHT OF NON-ADJUSTABLE THERMOSTATS SHALL BE 1500 MM [5 FT. 0 IN.] FROM FINISHED FLOOR. COORDINATE LOCATION WITH ARCHITECT/DESIGNER. DO NOT INSTALL IN VIEW OF ELECTRICAL LIGHTING DIMMERS.
63.	H. CLEAN AND RECALIBRATE EXISTING THERMOSTATS UPON COMPLETION OF CONSTRUCTION. SUBMIT REPORT THAT THIS WORK WAS COMPLETED.
64.	I. INSTALL ALL EXPOSED WIRING WITH ENT CONDUIT, C/W ALL NECESSARY FITTINGS AND SUPPORTS FOR A COMPLETE AND OPERATING CONTROL SYSTEM. HARD WIRE ALL ELECTRICAL CONTROL SYSTEMS INTO THE ASSOCIATED SYSTEM MAGNETIC STARTERS. PROVIDE POWER TO CONTROL PANEL FROM THE NEAREST NORMAL POWER ELECTRICAL DISTRIBUTION PANEL.

RECORD DRAWINGS	
1.	RECORD INVERTS OF UNDERGROUND PIPING AT BUILDING ENTRY/EXIT AND BELOW FLOOR SLAB AT EACH BRANCH, RESEAL BASE, CHANGE IN DIRECTION AS WELL AS LEAST THREE POINTS ON STRAIGHT RUNS.
2.	SHOW LOCATIONS OF ACCESS DOORS AND PANELS AND IDENTIFY THE EQUIPMENT AND COMPONENTS THAT THEY SERVE.
3.	OPERATING AND MAINTENANCE MANUALS
4.	1. SUBMIT ONE COPY FOR REVIEW AT LEAST TWO WEEKS BEFORE INSTRUCTIONS TO OWNER ARE COMMENCED.
5.	2. SUBMIT 2(TWO) COPIES OF FINAL MANUALS TO THE ENGINEER.
6.	3. ENSURE THAT THE TERMINOLOGY USED IN VARIOUS SECTIONS OF THE MANUAL IS CONSISTENT.
7.	4. EACH MANUAL SHALL CONTAIN THE FOLLOWING INFORMATION:
8.	DESCRIPTION OF EACH SYSTEM WITH DESCRIPTION OF EACH MAJOR COMPONENT OF SYSTEM
9.	- COMPLETE SETS OF PAGE SIZE EQUIPMENT SHOP DRAWINGS
10.	- EQUIPMENT MANUFACTURER'S INSTALLATION, STARTUP AND OPERATION MANUALS
11.	- EQUIPMENT MANUFACTURER'S RECOMMENDED SPARE PARTS LISTS
12.	- EQUIPMENT WIRING DIAGRAMS
13.	- LIBRARIAN SCHEDULE FOR ALL EQUIPMENT
14.	- EQUIPMENT IDENTIFICATION LIST WITH SERIAL NUMBERS
15.	- PAGE SIZE VALVE TAG SCHEDULE AND FLOW DIAGRAMS
16.	- FINAL BALANCING REPORTS
17.	- WATER TREATMENT PROCEDURE AND TESTS
18.	- CONTROL DRAWINGS, SEQUENCES OF OPERATION
19.	- WARRANTY DOCUMENTATION
20.	- EXTENDED WARRANTY DOCUMENTATION IF APPLICABLE
21.	OPERATING AND MAINTENANCE MANUALS SHALL BE SUBMITTED AS A BUSINESS HOUR PACKAGE IN A THREE RING BINDER AND PREPARED IN A PROFESSIONAL MANNER INCLUDING THE FOLLOWING:
22.	- TABLE OF CONTENTS
23.	- NUMBERED SECTION TABS
24.	- PAGE NUMBERS
25.	- FRONT COVER WITH PROJECT DETAILS SUCH AS CLIENT NAME, PROJECT LOCATION AND CONTRACTOR CONTACT INFORMATION.
26.	- INTRODUCTION SHEET
27.	- COPY OF EACH REVIEWED SHOP DRAWING.
28.	- EQUIPMENT OPERATING AND MAINTENANCE MANUALS AS DESCRIBED
29.	- START-UP AND VERIFICATION TEST REPORTS.
30.	- AS-BUILT DRAWINGS AS DESCRIBED ABOVE.
31.	- AIR AND WATER BALANCING REPORTS.
32.	- WARRANTY DOCUMENTATION.
33.	STRUCTURAL REINFORCING: MECHANICAL CONTRACTOR SHALL PROVIDE ALL STRUCTURAL REINFORCING TO BUILDING STRUCTURE AS PER LOCAL BUILDING CODE. IT IS THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO HIRE A LICENSED PROFESSIONAL ENGINEER TO DESIGN ALL STRUCTURAL REINFORCING REQUIRED FOR SEISMIC APPLICATION. REVIEW COMPLETE INSTALLATION AS REQUIRED. UPON COMPLETION THE ENGINEER SHALL ISSUE A CERTIFICATION LETTER INDICATING THAT SUCH INSTALLATION IS CONSTRUCTED IN COMPLIANCE WITH LOCAL BUILDING CODE AND ALL APPLICABLE REGULATIONS.
34.	STRUCTURAL REINFORCING: MECHANICAL CONTRACTOR SHALL PROVIDE ALL STRUCTURAL REINFORCING TO BUILDING STRUCTURE AS PER LOCAL BUILDING CODE. IT IS THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO HIRE A LICENSED PROFESSIONAL ENGINEER TO DESIGN ALL STRUCTURAL REINFORCING REQUIRED FOR SEISMIC APPLICATION. REVIEW COMPLETE INSTALLATION AS REQUIRED. UPON COMPLETION THE ENGINEER SHALL ISSUE A CERTIFICATION LETTER INDICATING THAT SUCH INSTALLATION IS CONSTRUCTED IN COMPLIANCE WITH LOCAL BUILDING CODE AND ALL APPLICABLE REGULATIONS.
35.	CHANGE NOTICE QUOTATIONS SHALL BE SUBMITTED COMPLETE WITH COST BREAKDOWN OF LABOR AND MATERIALS. FAILURE TO PROVIDE WILL RESULT IN REJECTION. ALL MECHANICAL CHANGE NOTICES SHALL BE PRICED IN ACCORDANCE WITH "MECHANICAL CONTRACTORS ASSOCIATION" (MCA). LABOR UNITS STRICTLY FOR LABOR AND FOR MATERIAL COST USE "ALL PRICER" LESS DISCOUNT, TYPICALLY 20% - 30%.
36.	PROTECT ALL MECHANICAL WORK FROM DAMAGE INCLUDING THAT CAUSED BY WEATHER. KEEP ALL EQUIPMENT DRY AND CLEAN AT ALL TIMES. COVER OPENINGS IN EQUIPMENT, PIPES AND DUCTS WITH CAPS OR HEAVY GAUGE PLASTIC SHEETING UNTIL FINAL CONNECTIONS ARE MADE. REPAIR ANY DAMAGE CAUSED BY IMPROPER STORAGE, HANDLING OR INSTALLATION OF EQUIPMENT AND MATERIALS.
37.	BUILDING FILTERS 25MM (1 IN.) SHALL BE PROVIDED AT ALL BASE BUILDING RETURN AIR OPENINGS WHICH REMAIN OPERATIONAL DURING CONSTRUCTION. FILTERS TO BE REPLACED WEEKLY. REMOVE UPON CONSTRUCTION COMPLETION.
38.	BASE BUILDING HVAC COMPONENTS REMOVED I.E. LIGHT TRAFFERS, DIFFUSERS VAV BOXES ETC. SHALL BE TURNED OVER TO THE LANDLORD/OWNER AT THEIR DIRECTIONS.
39.	COMPLY WITH THE GENERAL CONTRACTORS CONSTRUCTION SCHEDULE.
40.	THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING, COORDINATING AND MAINTAINING ALL TEMPORARY SERVICES INCLUDING GAS, WATER, SPACE HEATING AND ELECTRICITY AS REQUIRED TO COMPLETE THE MECHANICAL CONSTRUCTION/INSTALLATION. DO NOT USE PERMANENT TEMPORARY SERVICES DURING CONSTRUCTION UNLESS WRITTEN PERMISSION IS PROVIDED BY THE ENGINEER.
41.	FOLLOWING COMPLETION OF ALL INSTALLATION WORK, BALANCING, TESTING AND COMMISSIONING THE MECHANICAL CONTRACTOR IS TO FULLY INSTRUCT THE OCCUPANT OR OWNER IN ALL ASPECTS OF THE OPERATION OF THE MECHANICAL SYSTEMS AND EQUIPMENT. THIS INCLUDES BUT NOT LIMITED TO THERMOSTAT PROGRAMMING, SUMP PUMP CONTROLS, TIME-CLOCKS ETC....
42.	OFFSHORE MANUFACTURED PRODUCTS ARE NOT ACCEPTABLE UNLESS WRITTEN PERMISSION IS PROVIDED BY ENGINEER. THIS INCLUDES ALL PIPING, REINFORCING, VALVES, METAL, HANGERS, AND FASTENERS.
43.	CONTRACTOR TO INCLUDE IN BASE BID COST FOR SUPPLY AND INSTALLATION OF (6) NEW SPRINKLER HEADS C/W NEW DROP PIPING AND HANGERS.
44.	CONTRACTOR TO INCLUDE IN BASE BID COST FOR RELOCATION OF (6) EXISTING SPRINKLER HEADS.
45.	CONTRACTOR TO PROVIDE UNIT COSTS FOR THE FOLLOWING:
46.	1. SUPPLY AND INSTALL OF ONE (1) NEW PENDANT SPRINKLER HEAD.
47.	2. SUPPLY AND INSTALL OF ONE (1) NEW UPRIGHT SPRINKLER HEAD.
48.	3. RELOCATION OF ONE (1) EXISTING SPRINKLER HEAD.
49.	4. RELOCATION OF ONE (1) EXISTING FIRE HOSE CABINET TO A MAXIMUM OF 20 FEET.
50.	5. SUPPLY AND INSTALL OF ONE (1) NEW FIRE HOSE CABINET C/W 75 FOOT HOSE, 5 LBS. ABC FIRE EXTINGUISHER.
51.	6. PER FOOT COST FOR SUPPLY AND INSTALL OF NEW 3" FIRE LINE.
52.	7. SUPPLY AND INSTALL OF ONE (1) NEW 5 LBS. ABC FIRE EXTINGUISHER C/W WALL MOUNTING BRACKET.
53.	FIRE EXTINGUISHER
54.	1. PROVIDE AS REQUIRED, NATIONAL FIRE EQUIPMENT LTD., DIAMOND FIRE EXTINGUISHER MODEL AB-050W00 5LB MULT-PURPOSE DRY CHEMICAL EXTINGUISHERS C/W WALL HOOK.

HVAC SYSTEM	
1.	FABRICATE DUCTWORK FROM GALVANIZED SHEET METAL UNLESS OTHER MATERIALS ARE SPECIFICALLY NAMED. CONFORM TO FABRICATION AND INSTALLATION STANDARDS DESCRIBED IN THE LATEST EDITION OF ASHRAE AND SMACNA RECOMMENDATIONS.
2.	A. DUCTWORK SHALL BE SMOOTH ON THE INSIDE AND FREE FROM OBSTRUCTIONS, VIBRATIONS AND RATTLE.
3.	B. DAMPERS SHALL BE FREE TO MOVE IN EITHER DIRECTION WITHOUT BINDING AND SHALL NOT RATTLE. DAMPERS SHALL BE CONSTRUCTED FROM 18GA GALVANIZED SHEET METAL. USE MANUAL QUADRANTS ON SMALL DUCTS. ON DAMPERS LONGER THAN 12" USE PUSH RODS WITH DURODINE MODEL SRP BALL JOINTS. USE TWO PUSH RODS WITH 3/4" DIA. WIDER THAN 24".
4.	C. DUCT TRANSFORMATIONS SHALL BE MADE WITH EXPANSION FITTINGS HAVING SLOPES NOT EXCEEDING 1 TO 7 AND CONTRACTION FITTINGS HAVING SLOPES NOT EXCEEDING 1 TO 4.
5.	D. SEAL ALL JOINTS IN SUPPLY AIR AND EXHAUST AIR DUCTWORK WITH 3M EC-800, OR DURODINE 5-3 DUCT SEALER.
6.	E. PACK AROUND ALL DUCT OPENINGS IN ROOF AND WALLS WITH FIBERGLASS INSULATION.
7.	F. PROVIDE FULL RADIUS TEES, BENDS, AND ELBOWS FOR CHANGES IN DIRECTION EXCEPT WHERE SQUARE ELBOWS ARE REQUIRED. DUE TO SPACE RESTRICTIONS, PROVIDE DURODINE DOUBLE THICKNESS 24 GAUGE TURNING VANES ASSEMBLED IN TOP AND BOTTOM RAILS IN SQUARE ELBOWS.
8.	PROVIDE FIRE DAMPERS WHERE SHOWN ON DRAWINGS AND/OR WHERE REQUIRED BY LOCAL AUTHORITIES AND/OR APPLICABLE CODES IN DUCT SECTIONS COMPLETED WITH APPROVED ACCESS DOORS.
9.	FIRE DAMPERS SHALL BE ULC LABELED, FABRICATED AND INSTALLED IN ACCORDANCE WITH NFA 90A, CUA 90-1 AND APPROVAL OF ALL AUTHORITIES HAVING JURISDICTION.
10.	PROVIDE FLEXIBLE CONNECTIONS BETWEEN ALL FANS AND ADJACENT DUCTWORK CONSISTING OF A PRESSURIZED LINE WITH 7MM (7/16") LONG GALVANIZED DUCT CONNECTOR AND 50 MM (6") WIDE HEAVY GLOSS FIBRE FABRIC WITH ELASTOMER COATING UNTO DURO DINE "DUROLUR".
11.	NOTE THAT DUCT DIMENSIONS ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS. WHERE ACUSTIC INSULATION IS INSTALLED, INCREASE DIMENSIONS ACCORDINGLY.
12.	DUCTWORK INSULATION (PER ASHRAE 90.1)
13.	A. PROVIDE 25 MM (1") THICK ACUSTIC DUCT LINER WHERE SHOWN ON DRAWINGS. ACUSTIC LINER SHALL BE JOHNS MANVILLE PERMAKOTE UNACOUSTIC RECTANGULAR DUCT LINER MEETING ASTM 1071 WITH AIR SURFACE COATED WITH ACRIC GROUTING WITH UREA EPICATED ANTI-MICROBIAL AGENT PROVEN TO RESIST MICROBIAL GROWTH AS DETERMINED BY ASTM G21 AND G22.
14.	B. INSULATE SUPPLY AND RIGID DUCTWORK UNLESS UNCONDITIONED SPACE WITH THERMAL FIBERGLASS REINFORCED FOIL-FACED RIGID VAPOR SEAL DUCT INSULATION HAVING AN R-VALUE OF 3.3 HR FT ² /BTU.
15.	C. REFER TO "DUCTWORK INSULATION SCHEDULE".
16.	FLEXIBLE DUCT SHALL BE EQUAL TO FLEXMASTER TRIPLE LOK ALUMINUM AIR DUCT AND SHALL BE THE SAME SIZE PACKAGE IN A THREE RING BINDER AND PREPARED IN A PROFESSIONAL MANNER INCLUDING THE FOLLOWING:
17.	- TABLE OF CONTENTS
18.	- NUMBERED SECTION TABS
19.	- PAGE NUMBERS
20.	- FRONT COVER WITH PROJECT DETAILS SUCH AS CLIENT NAME, PROJECT LOCATION AND CONTRACTOR CONTACT INFORMATION.
21.	- INTRODUCTION SHEET
22.	- COPY OF EACH REVIEWED SHOP DRAWING.
23.	- EQUIPMENT OPERATING AND MAINTENANCE MANUALS AS DESCRIBED
24.	- START-UP AND VERIFICATION TEST REPORTS.
25.	- AS-BUILT DRAWINGS AS DESCRIBED ABOVE.
26.	- AIR AND WATER BALANCING REPORTS.
27.	- WARRANTY DOCUMENTATION.
28.	PROVIDE TRANSFER AIR DUCT IN CEILING SPACE FOR ALL WALLS EXTENDING TO UNDERSIDE OF DECK OR FLOOR SLAB ABOVE. TRANSFER AIR DUCTS ARE TO BE PROVIDED WHETHER OR NOT THEY ARE SHOWN ON PLANS. TRANSFER AIR DUCT SHALL BE MINIMUM 2" x 12" SHAPED CONSTRUCTION WITH MINIMUM 3/8" LONG SIZES C/W 1" ACOUSTICAL LINING.
29.	PROVIDE ROOF CURBS FOR ROOF MOUNTED EQUIPMENT, DUCT AND PIPE PENETRATIONS. PRE-MANUFACTURED CURBS ARE TO BE PROVIDED FOR MECHANICAL AND EQUIPMENT MOUNTED ON ROOF AND TO BE SUPPLIED BY EQUIPMENT MANUFACTURER. ROOF CURB IS TO BE AT LEAST 14" ABOVE FINISHED ROOF. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF ROOF CURBS WITH ROOFING CONTRACTORS.
30.	BALANCING
31.	TEST, BALANCE AND ADJUST ALL AIR, HYDRO-PNEUMATIC AND PLUMBING SYSTEMS ENTIRELY TO OBTAIN THE DESIGN FLOW QUANTITIES. MARK THE FINAL BALANCE POSITION ON ALL BALANCING DAMPERS AND ADJUSTABLE AIR TURNING DEVICES AND MAKE FITTING ENGINEER PRIOR TO CONSTRUCTION. TEST AND BALANCE REPORT TO THE ENGINEER AND PROJECT CO-ORDINATOR. INDICATE ALL TEST RESULTS CLOSEST AND FURTHEST OUTLET SUPPLY AIR TEMPERATURES AND ROOM TEMPERATURES FOR ALL AIR SYSTEMS. INCLUDE FOR REPLACEMENT OF DRIVE KITS. INCLUDE ADDITIONAL BALANCING AS PART OF SCOPE AT LEAST ONE (1) MONTH FOLLOWING OCCUPANCY. THIS WORK SHALL BE PERFORMED BY AN AGENCY CURRENTLY A MEMBER OF AND IN GOOD STANDING WITH EITHER THE ASSOCIATED AIR BALANCE, CHUBB OR NATIONAL ENVIRONMENTAL BALANCING BUREAU. TESTING AND BALANCING CONTRACTOR SHALL BE APPROVED BY THE LANDLORD AND HIRED AT THE EXPENSE OF DIVISION 15.
32.	CONTROLS
33.	A. THE MECHANICAL CONTRACTOR IS TO PROVIDE ALL CONTROL WIRING REGARDLESS OF VOLTAGE. THIS INCLUDES ALL INTERLOCKS BETWEEN MAKE-UP AIR UNITS AND EXHAUST FANS; MOTORIZED DAMPERS AND FANS AND ALL OTHER INTERLOCKS BETWEEN MECHANICAL EQUIPMENT.
34.	B. CONTROL WIRING BELOW 50 VOLTS RELATED TO CONTROL SYSTEMS SHALL BE PROVIDED IN ACCORDANCE WITH LATEST EDITION OF CSA C22.1, NATIONAL ELECTRICAL SAFETY CODE AND REQUIREMENTS OF ELECTRICAL SAFETY AUTHORITY.
35.	C. ELECTRONIC MOTORIZED DAMPER ACTUATOR SHALL BE EQUAL TO BELIMO MANUFACTURER. ACTUATOR TO BE SIZED FOR TORQUE REQUIRED TO COMPLETELY SEAL DAMPER AT LOAD CONDITION. ACTUATOR TO BE RATED FOR APPLICATION. CONSULT WITH DAMPER MANUFACTURER. LINE SIDE POWER WIRING FOR LINE VOLTAGE ACTUATORS SHALL BE BY THE ELECTRICAL CONTRACTOR FOR ACTUATORS REQUIRING LOW VOLTAGE POWER THE ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING AND TERMINATED AT A JUNCTION BOX ADJACENT TO THE ACTUATOR. ALL LOW VOLTAGE WIRING AND TRANSFORMER SHALL BE BY THE MECHANICAL CONTRACTOR.
36.	D. MANUFACTURE AND INSTALLATION WHEN REQUIRED SHALL BE BY OWNER'S/LANDLORD'S APPROVED CONTRACTOR.
37.	E. NEW THERMOSTATS SHALL MATCH BASE BUILDING AND SHALL BE PROVIDED BY OWNER'S/LANDLORD'S APPROVED CONTRACTOR.
38.	F. CONNECT ALL NEW AND RELOCATED EQUIPMENT TO EXISTING BUILDING AUTOMATION SYSTEM (BAS). BAS GRAPHICS SHALL BE UPDATED TO REFLECT NEW SPACES, ROOMS, THERMOSTATS/SENSORS AND EQUIPMENT. ALL BAS WORK SHALL BE CARRIED OUT BY OWNER'S/LANDLORD'S APPROVED CONTRACTOR.
39.	G. MOUNTING HEIGHT OF OCCUPANT ADJUSTABLE THERMOSTATS SHALL BE 1200MM [3 FT. 11 IN.] FROM FINISHED FLOOR. MOUNTING HEIGHT OF NON-ADJUSTABLE THERMOSTATS SHALL BE 1500 MM [5 FT. 0 IN.] FROM FINISHED FLOOR. COORDINATE LOCATION WITH ARCHITECT/DESIGNER. DO NOT INSTALL IN VIEW OF ELECTRICAL LIGHTING DIMMERS.
40.	H. CLEAN AND RECALIBRATE EXISTING THERMOSTATS UPON COMPLETION OF CONSTRUCTION. SUBMIT REPORT THAT THIS WORK WAS COMPLETED.
41.	I. INSTALL ALL EXPOSED WIRING WITH ENT CONDUIT, C/W ALL NECESSARY FITTINGS AND SUPPORTS FOR A COMPLETE AND OPERATING CONTROL SYSTEM. HARD WIRE ALL ELECTRICAL CONTROL SYSTEMS INTO THE ASSOCIATED SYSTEM MAGNETIC STARTERS. PROVIDE POWER TO CONTROL PANEL FROM THE NEAREST NORMAL POWER ELECTRICAL DISTRIBUTION PANEL.
42.	WHERE A BUILDING DRAIN OR A BRANCH MAY BE SUBJECT TO BACKFLOW, A BACKFLOW VALVE SHALL BE INSTALLED ON EVERY FUTURE DRAIN CONNECTED TO THEM WHEN THE FIXTURE IS LOCATED BELOW THE LEVEL OF THE ADJOINING STREET.
43.	ABOVE GROUND SANITARY DRAIN PIPING MATERIAL AND FITTINGS SHALL BE:
44.	A. PIPE SIZE 2-1/2" AND LESS: TYPE P-1 OR P-2.
45.	B. PIPE SIZE 3" AND GREATER: TYPE P-2 OR P-4.
46.	UNDERGROUND SANITARY DRAIN PIPING MATERIAL AND FITTINGS SHALL BE:
47.	A. PIPE SIZE 2-1/2" AND LESS: TYPE P-3 OR P-4.
48.	B. PIPE SIZE 3" AND GREATER: TYPE P-4, P-7, OR P-10.
49.	ABOVE GROUND VENT PIPING MATERIAL AND FITTINGS SHALL BE:
50.	A. PIPE SIZE 2-1/2" AND LESS: TYPE P-1 OR P-2.
51.	B. PIPE SIZE 3" AND GREATER: TYPE P-2 OR P-4.
52.	UNDERGROUND VENT PIPING MATERIAL AND FITTINGS SHALL BE:
53.	A. PIPE SIZE 2-1/2" AND LESS: TYPE P-4, P-7 OR P-8.
54.	B. PIPE SIZE 3" AND GREATER: TYPE P-4, P-7, OR P-10.
55.	ABOVE GROUND DOMESTIC HOT, COLD AND RECIRCULATION PIPING MATERIAL AND FITTINGS SHALL BE:
56.	A. PIPE SIZE 2-1/2" AND LESS: TYPE P-8.
57.	B. PIPE SIZE 3" AND GREATER: TYPE P-8.
58.	UNDERGROUND DOMESTIC HOT, COLD AND RECIRCULATION PIPING MATERIAL AND FITTINGS SHALL BE:
59.	A. PIPE SIZE 2-1/2" AND LESS: N/A
60.	B. PIPE SIZE 3" AND GREATER: TYPE P-4.
61.	UNDERGROUND STORM DRAIN PIPING MATERIAL AND FITTINGS SHALL BE:
62.	A. PIPE SIZE 2-1/2" AND LESS: N/A
63.	B. PIPE SIZE 3" AND GREATER: TYPE P-4 OR P-7.
64.	PIPING MATERIAL AND FITTINGS
65.	P-1: DWV COPPER PIPE WITH DRAINAGE FITTINGS AND 95/5 TIN/ANTIMONY SOLDER JOINTS

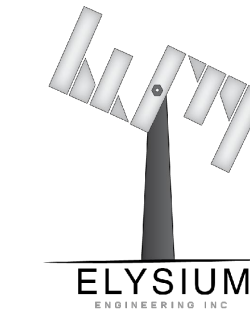
PLUMBING SYSTEM	
1.	PROVIDE PLUMBING SYSTEMS AS PER SPECIFICATIONS, DRAWINGS, THE ONTARIO PLUMBING AND MECHANICAL ACT AND ANY OTHER LOCAL AUTHORITIES. ALL NECESSARY ACCESSORIES AND FITTING REQUIRED FOR COMPLETE AND OPERATIONAL SYSTEMS.
2.	MAKE ALL WATER, WASTE AND VENT PIPING CONNECTIONS AS REQUIRED. PROVIDE VENTING, TRAPPING AND PRIMING AS PER THE APPLICABLE REGULATIONS.
3.	PROVIDE ALL CURBS, MOUNTINGS AND SUPPORTS FOR EQUIPMENT, FIXTURES AND PIPING AS REQUIRED AND SPECIFIED.
4.	ALL EXPOSED FITTINGS CONNECTED TO FIXTURES SHALL BE CHROME-PLATED BRASS. ALL EXPOSED FITTINGS AND TRIM SHALL BE CHROME PLATED. PROVIDE ESCUTCHEONS PLATES ON ALL PIPING THROUGH PARTITIONS.
5.	IN REFERENCE TO SANITARY SEWERS, STORM SEW

LEGEND - MECHANICAL				MECHANICAL DRAWING LIST		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	DRAWING NO.	DESCRIPTION	SCALE
	EXISTING FIRE EXTINGUISHER		DUCTWORK CONTINUATION	M-00	COVER PAGE	N.T.S.
	DUCTWORK CAP		FLEXIBLE ROUND DUCTWORK	M-01	SPECIFICATION	N.T.S.
	SUPPLY AIR DIFFUSER		DEMOLITION	M-02	MECHANICAL - LEGEND, DRAWING LIST	N.T.S.
	RETURN AIR GRILLE		NEW PENDANT SPRINKLER HEAD	M-03	MECHANICAL - DETAILS	N.T.S.
	EXISTING WASHROOM EXHAUST FAN		EXISTING PENDANT SPRINKLER TO BE RELOCATED	M-04	MECHANICAL - HVAC DEMO FLOOR PLAN	1/8"=1'-0"
	NEW EXHAUST FAN		EXISTING PENDANT SPRINKLER HEAD	M-05	MECHANICAL - HVAC NEW FLOOR PLAN	1/8"=1'-0"
	TRANSFER AIR WALL GRILLE		CONNECT TO EXISTING	M-06	MECHANICAL - FIRE PROTECTION NEW FLOOR PLAN	1/8"=1'-0"
	DUCTWORK TERMINATION		A - VAV BOX SIZE			
	HORIZONTAL SPIN-OFF WITH BALANCING DAMPER		MAX - MAXIMUM AIRFLOW DAMPER SETTING			
	EXISTING THERMOSTAT		MIN - MINIMUM AIRFLOW DAMPER SETTING			
	NEW/RELOCATED THERMOSTAT		AIRFLOW			
	PENDANT SPRINKLER HEAD		DRAWING KEY NOTE			
	CONTROL WIRING		NEW DIFFUSER TAG			
	EXISTING SUPPLY AIR DUCTWORK		A - AIR TERMINAL TAG			
	EXISTING WASHROOM EXHAUST DUCTWORK		BB - DIFFUSER DIMENSIONS			
	EXISTING RETURN AIR DUCTWORK		XXX - AIRFLOW BALANCE			
	NEW SUPPLY AIR DUCTWORK		AIRFLOW REBALANCE			
	EXISTING VAV BOX		ACOUSTICALLY LINED TRANSFER AIR DUCT			
	EXISTING SPLIT A/C UNIT		YY - DIMENSIONS			
	EXISTING ELECTRIC DUCT HEATER		SIDE WALL EXHAUST FAN			
	EXISTING PUMPED SANITARY LINE		CEILING HUNG IN-LINE WASHROOM EXHAUST FAN			
	EXISTING DOMESTIC COLD WATER		SUPPLY DUCT UP OR FROM ABOVE			
	EXISTING SANITARY LINE		SUPPLY DUCT DOWN OR FROM BELOW			
	GAS LINE		RETURN OR EXHAUST DUCT UP OR FROM ABOVE			
	NEW DOMESTIC COLD WATER		RETURN OR EXHAUST DUCT DOWN OR FROM BELOW			
	NEW DOMESTIC HOT WATER		ROUND DUCT UP OR FROM ABOVE			
	NEW SANITARY LINE		ROUND DUCT DOWN OR FROM BELOW			
	HORIZONTAL CLEANOUT		ACOUSTIC LINED DUCT			
	UPTURNED CLEANOUT		RADIUS ELBOW WITH TURNING VANES			
	P-TRAP		SQUARE ELBOW DUCT WITH TURNING VANES			
	ISOLATION VALVE		AUTOMATIC SHUT-OFF VALVE / SOLENOID VALVE			
	CHECK VALVE		UNION COUPLING			
	3-WAY VALVE (MIXING OR DIVERTING)		PIPE CONTINUATION			
	PRESSURE REDUCING VALVE		PRESSURE REGULATING VALVE			
	BALANCING VALVE		SWITCH			
	PRESSURE REDUCING VALVE ASSEMBLY		CEILING FAN			
	ACOUSTICALLY LINED CEILING TRANSFER AIR DUCT		ROUND CONE DIFFUSER			
	TOP/BOTTOM SPIN-OFF WITH BALANCING DAMPER					
	FAN POWERED BOX (FPB)					



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02	24-08-12	R.R.	ISSUED FOR PERMIT
01	24-08-08	R.R.	ISSUED FOR 90% REVIEW

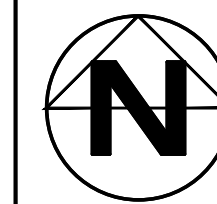
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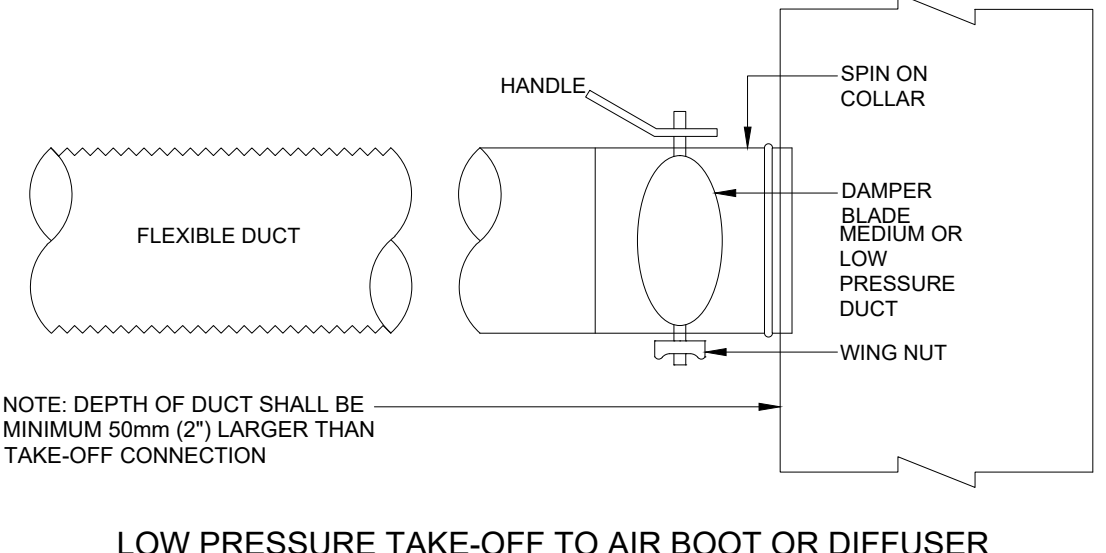
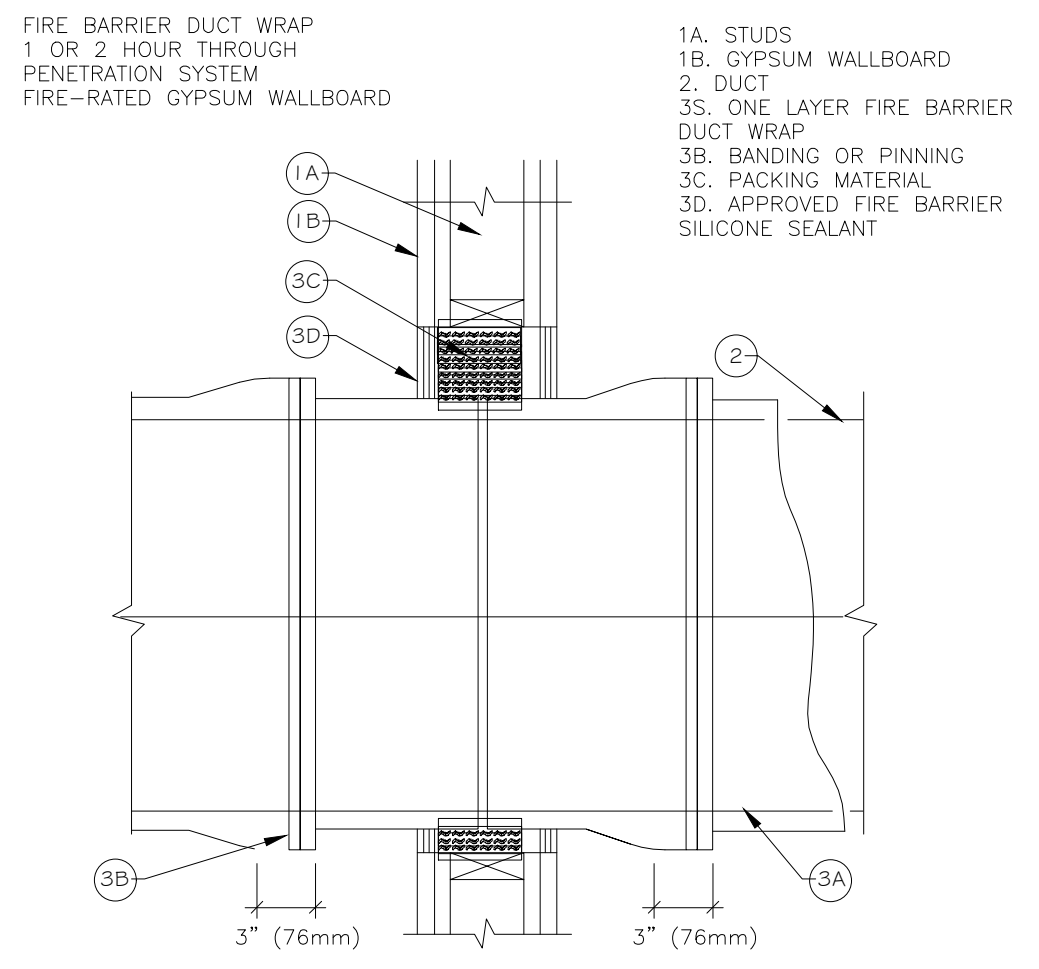
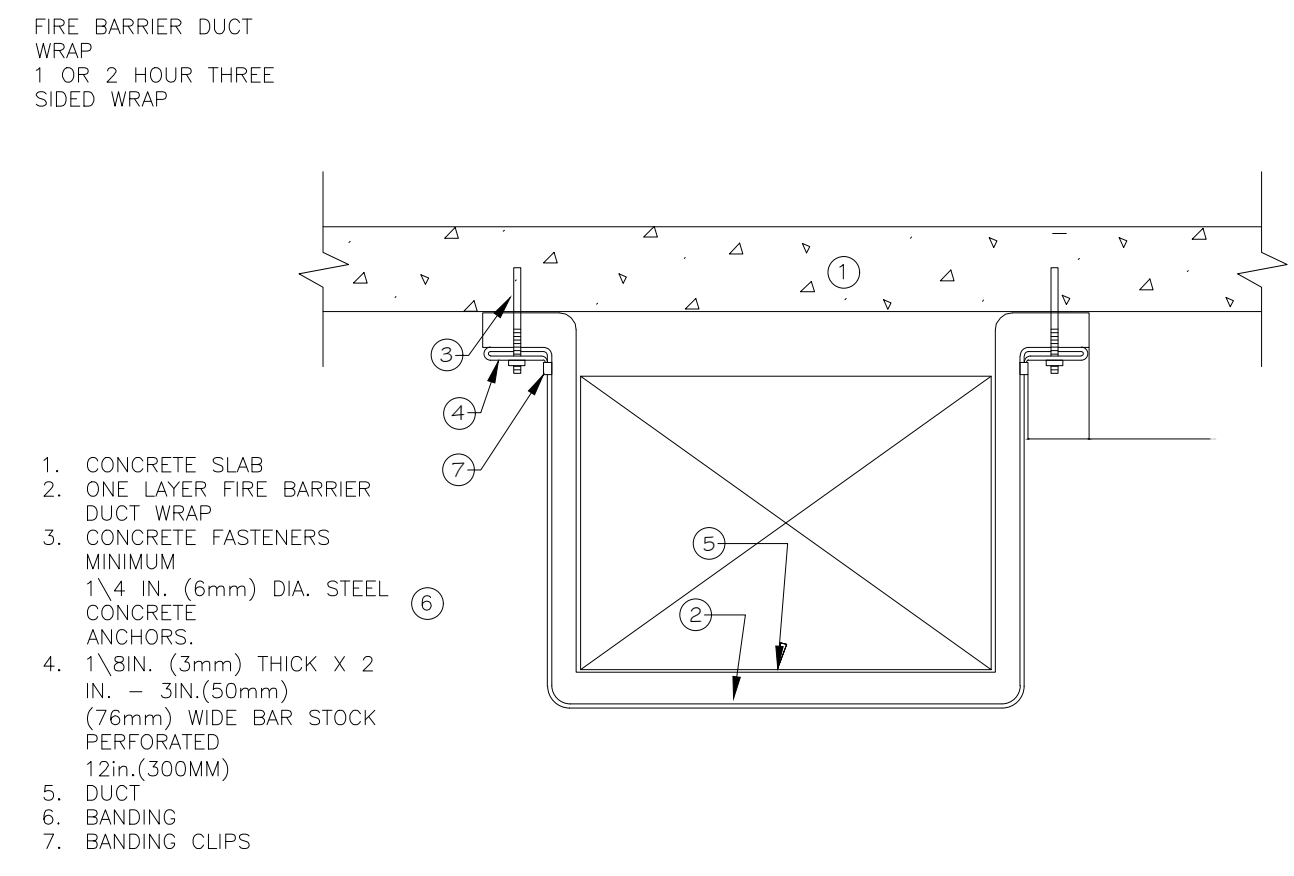
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Project title
MPAC
 1340 PICKERING PKWY
 10TH FLOOR
 PICKERING, ON

drawing title
MECHANICAL - LEGEND & DRAWING LIST

date	JULY 2024	project no.	24-000-15
drawn by	A.P.	cod file	
checked by	R.R.	drawing no.	
scale	N.T.S.		M-02

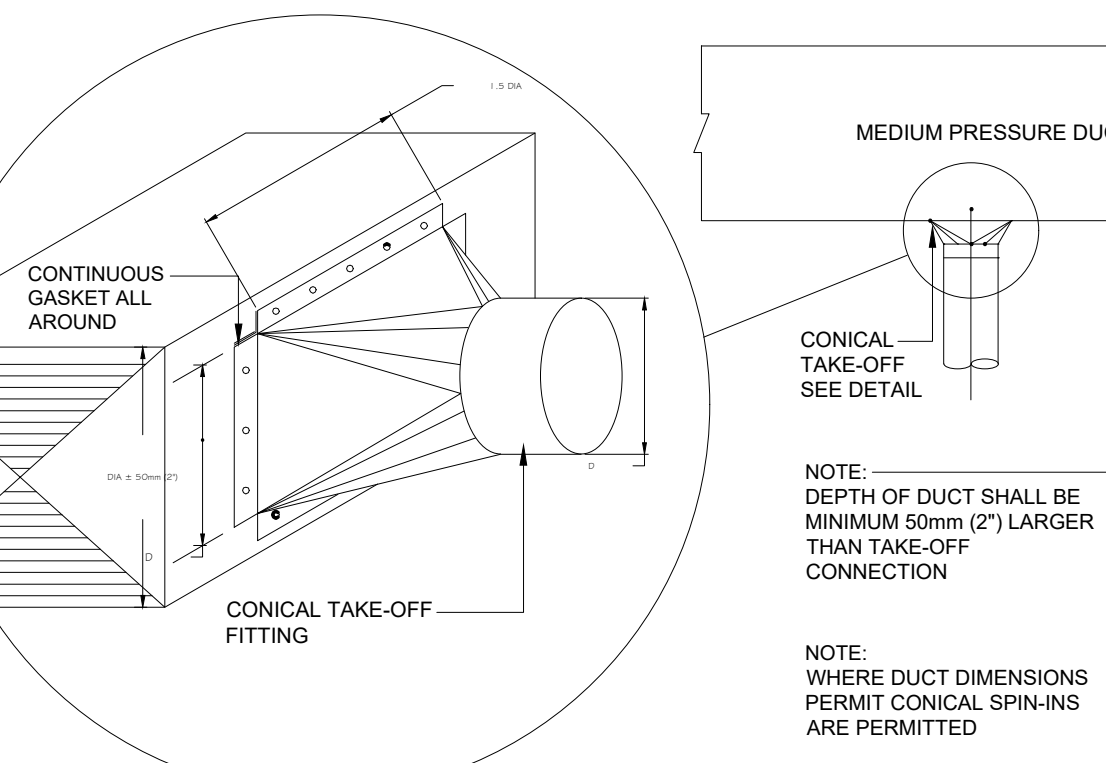
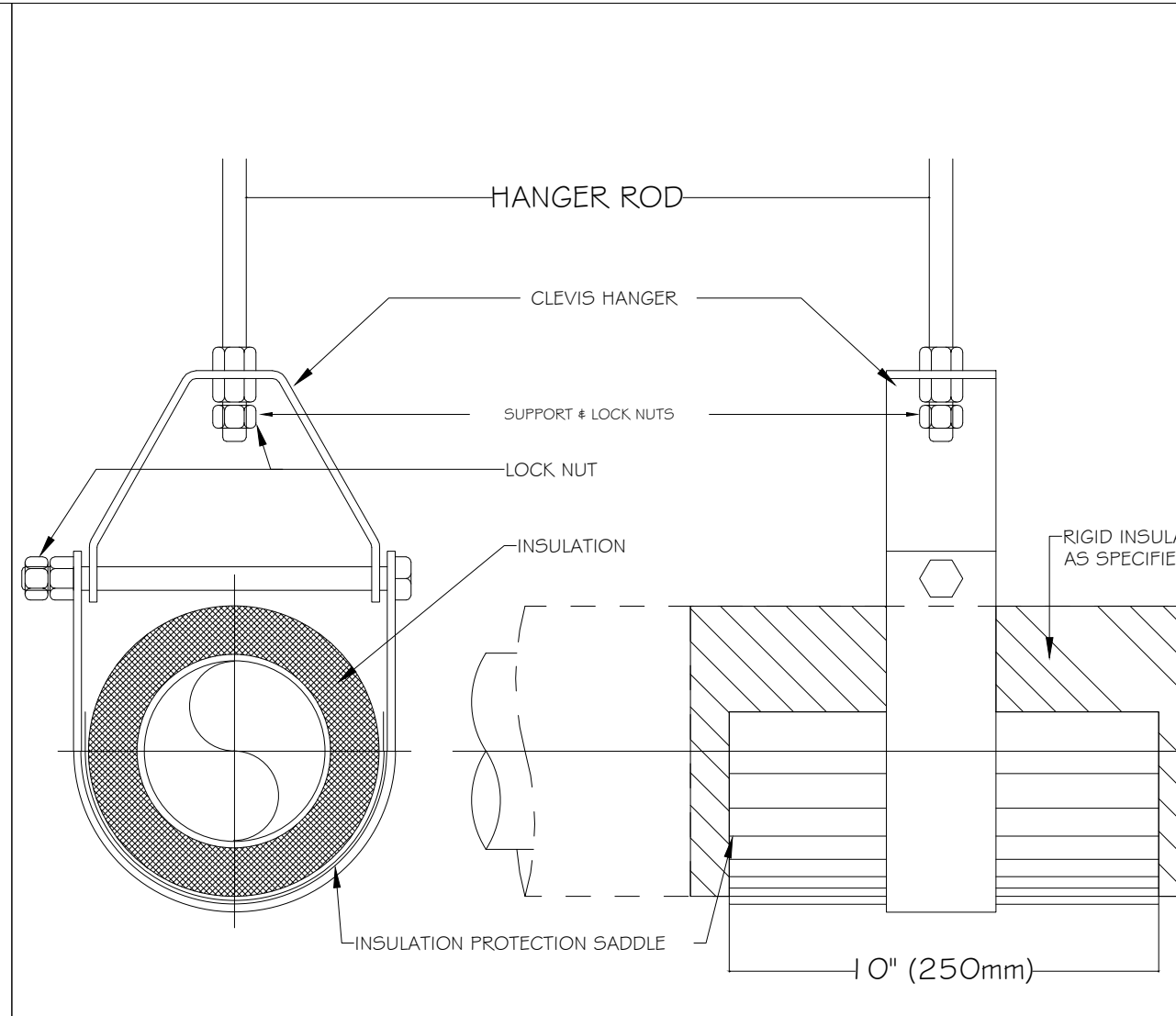
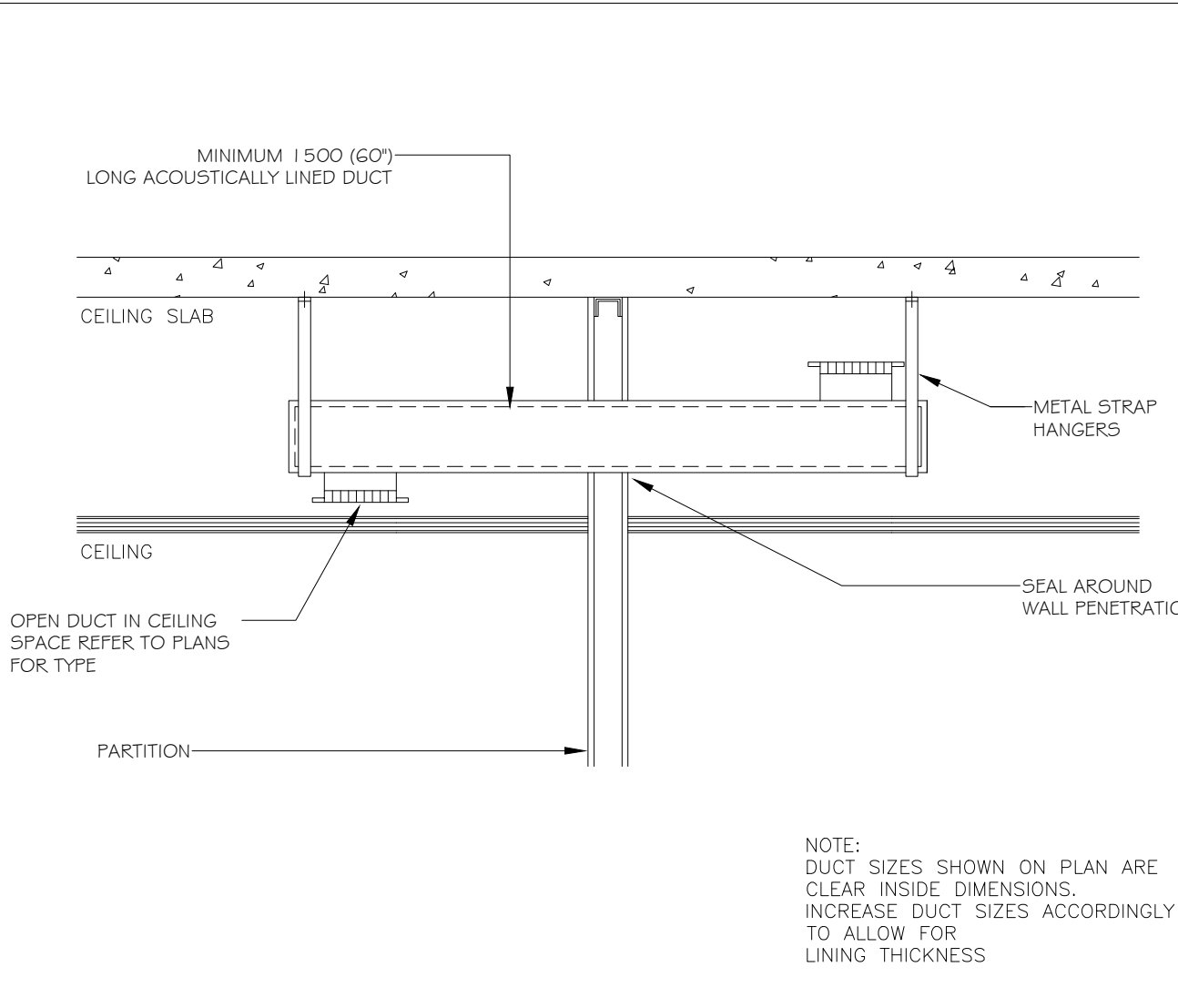




1 FIRE WRAPPED HORIZONTAL DUCT
M-03 NTS

2 FIRE WRAPPED DUCT PASSING THROUGH DRY WALL
M-03 NTS

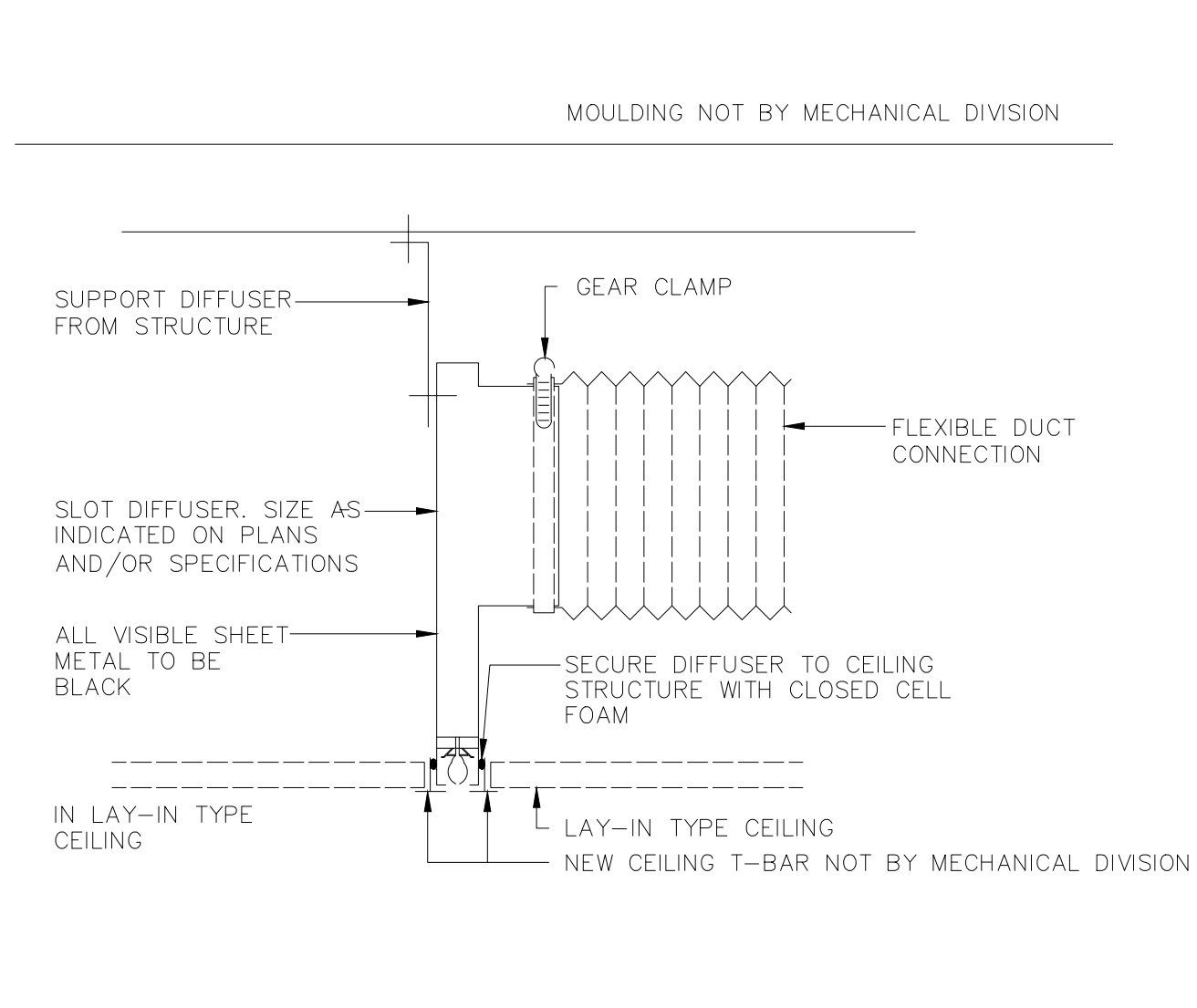
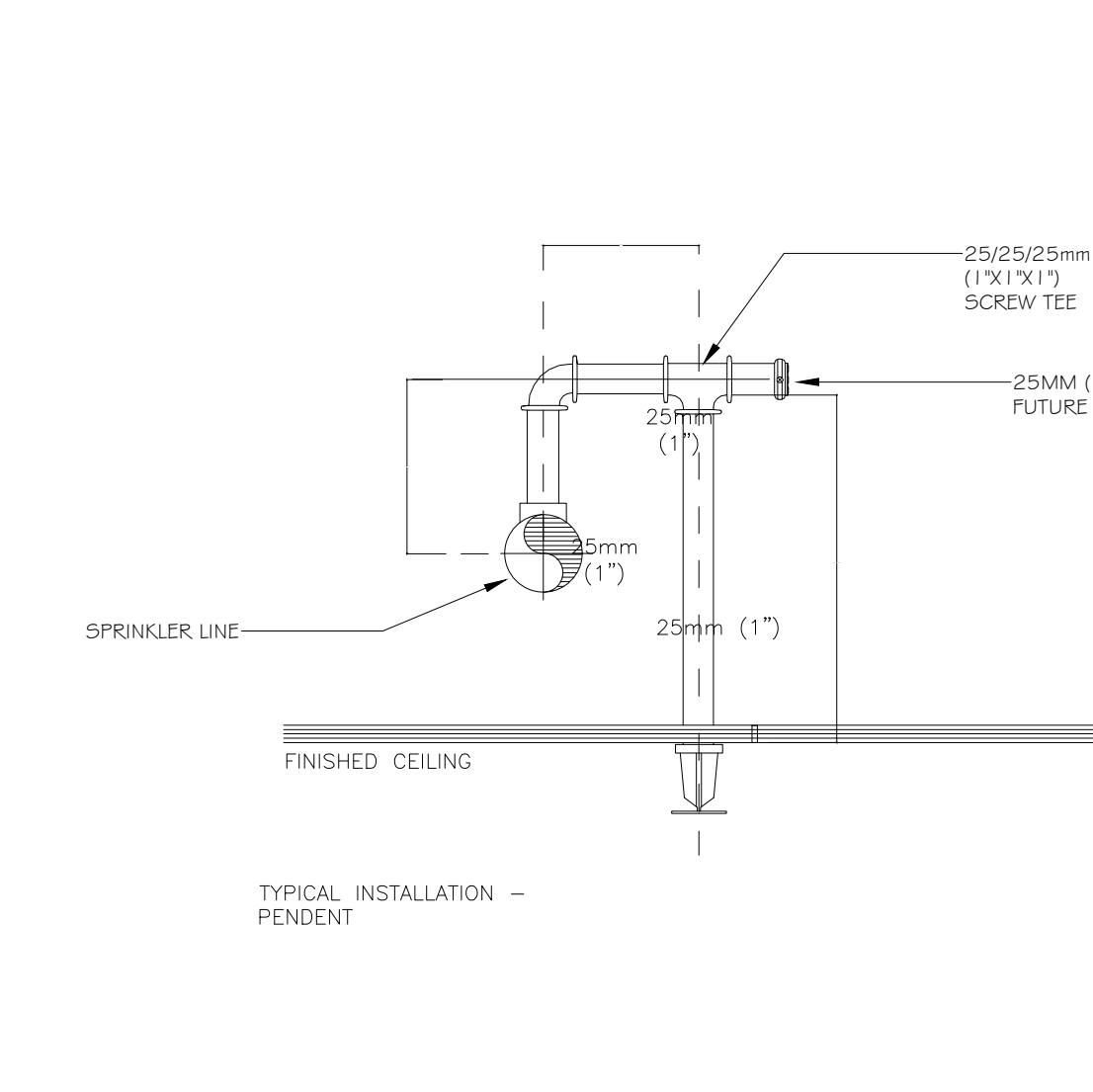
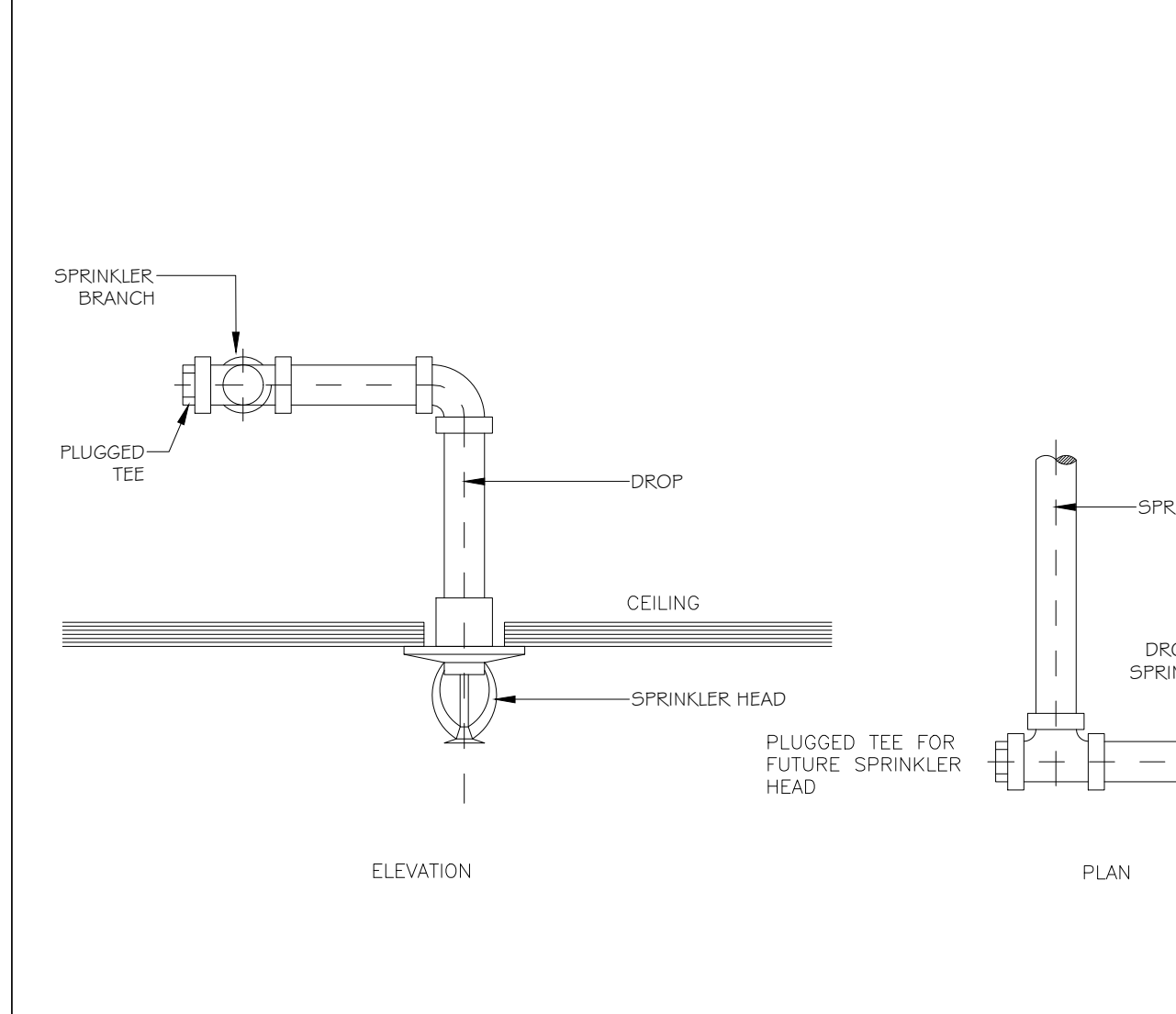
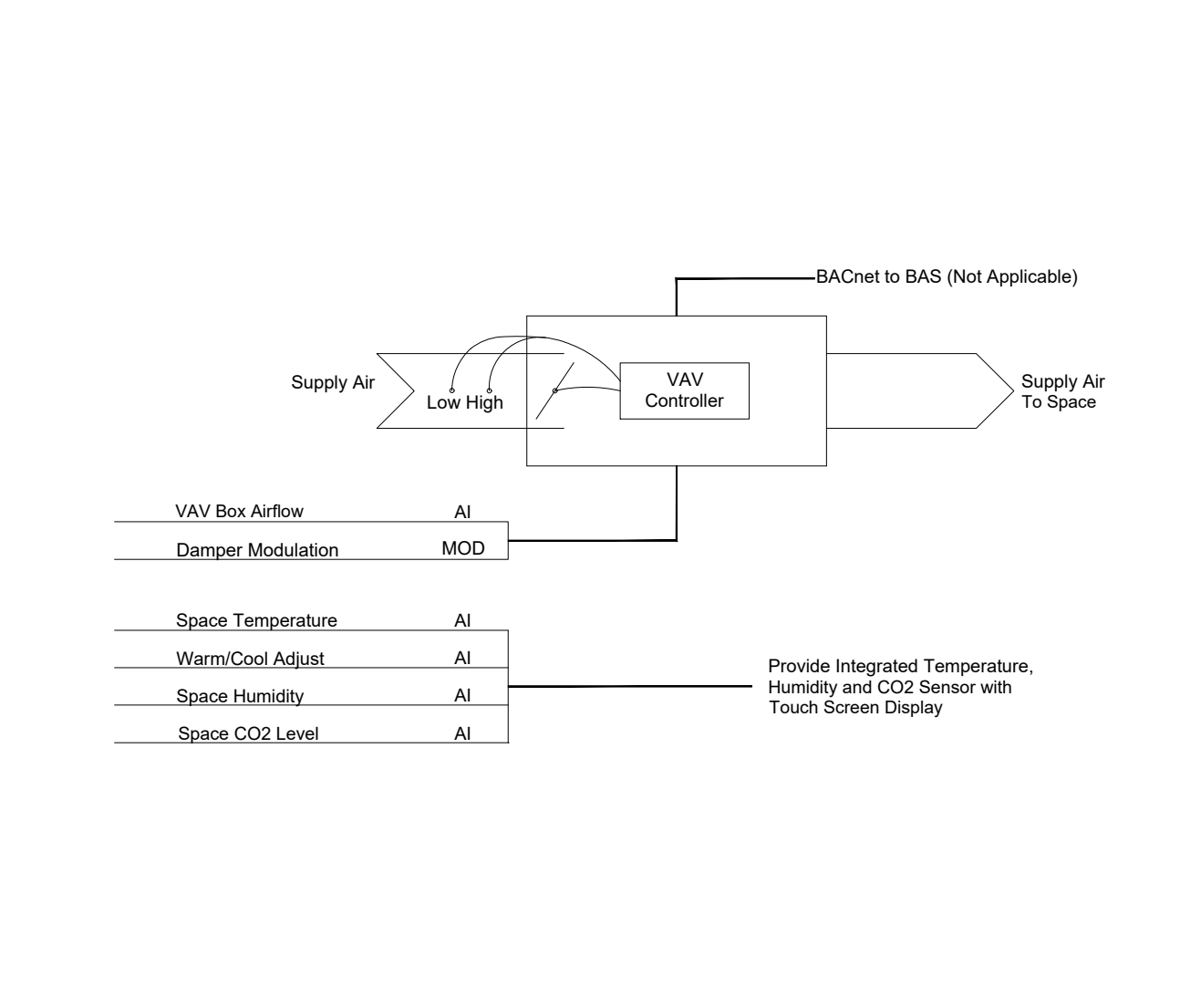
LOW PRESSURE TAKE-OFF TO AIR BOOT OR DIFFUSER



3 TRANSFER AIR DUCT
M-03 NTS

4 INSULATION PIPE HANGER
M-03 NTS

5 VARIABLE AIR VOLUME
M-03 NTS



6 VARIABLE AIR VOLUME
M-03 NTS

7 TYPICAL SPRINKLER HEAD INSTALLATION
M-03 NTS

8 TYPICAL SPRINKLER HEAD INSTALLATION
M-03 NTS

9 SLOT DIFFUSER (SUPPLY AIR)
M-03 NTS

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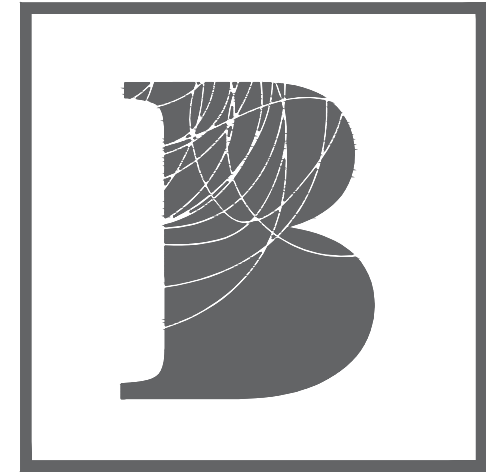
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Project title
MPAC
1340 PICKERING PKWY
10TH FLOOR
PICKERING, ON

MECHANICAL - DETAILS

date JULY 2024	project no. 24-000-15
drawn by A.P.	cod file
checked by R.R.	drawing no.
scale N.T.S.	M-03

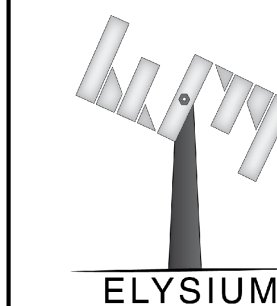


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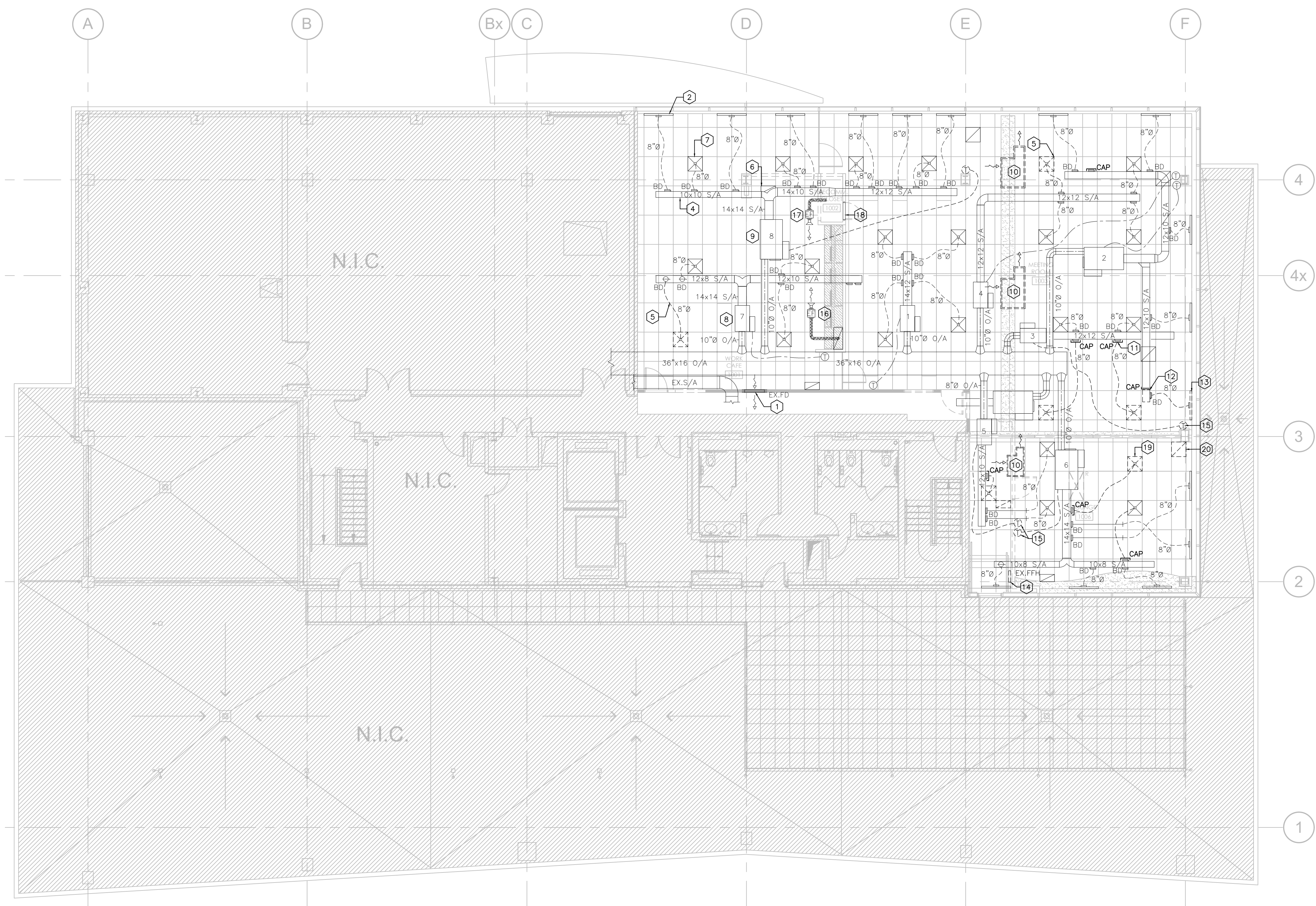
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1340 PICKERING PKWY
10TH FLOOR
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drawing title

MECHANICAL – HVAC
DEMO FLOOR PLAN

date JULY 2024	project no. 24-000-15
drawn by A.P.	coord file
checked by R.R.	drawing no.
scale 1/8" = 1'-0"	M-04

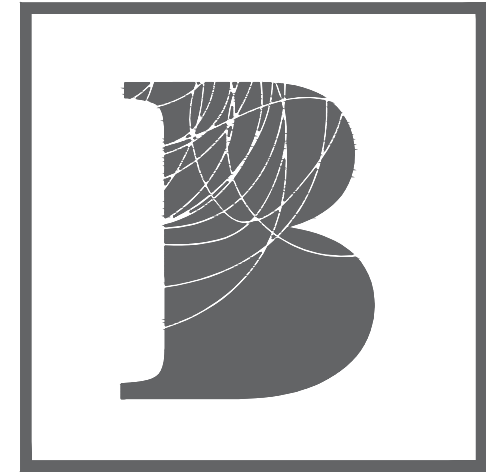


MECHANICAL DRAWING NOTES

- EXISTING RETURN AIR TRANSFER GRILLE C/W FIRE DAMPER SERVING AIRFLOW BACK TO COMPARTMENT UNIT TO REMAIN.
- EXISTING LINEAR SLOT DIFFUSERS SERVING PERIMETER TO REMAIN (TYPICAL).
- EXISTING THERMOSTAT AND ASSOCIATED CONTROL WIRING SERVING EXISTING VAV BOX TO REMAIN (TYPICAL).
- EXISTING SUPPLY DUCTWORK IN CEILING SPACE TO REMAIN (TYPICAL).
- REMOVE EXISTING SQUARE CONE DIFFUSER AND DISCARD EXISTING FLEX DUCTWORK AND PREP FOR NEW LOCATION.
- EXISTING EGG-CRATE RETURN GRILLE TO REMAIN (TYPICAL).
- EXISTING SQUARE CONE DIFFUSER TO REMAIN (TYPICAL).
- EXISTING VAV BOX TO REMAIN IN CEILING SPACE AND ASSOCIATED INLET & DISCHARGE DUCTWORK TO REMAIN (TYPICAL).
- EXISTING FAN POWERED BOX (FPB) TO REMAIN IN CEILING SPACE AND ASSOCIATED INLET & DISCHARGE DUCTWORK TO REMAIN (TYPICAL).
- REMOVE AND DISCARD EXISTING TRANSFER AIR DUCT IN CEILING SPACE (TYPICAL OF 3).
- REMOVE & DISCARD EXISTING FLEX DUCTWORK AS SHOWN, CAP AND SEAL SPIN-OFF AIR TIGHT (TYP. OF 5).
- REMOVE & DISCARD EXISTING RIGID DUCTWORK AS SHOWN, CAP AND SEAL DUCTWORK AIR TIGHT.
- REMOVE EXISTING LINEAR SLOT DIFFUSER AND PREP FOR RELOCATION AS SHOWN ON NEW FLOOR PLAN. DISCARD EXISTING RIGID DUCTWORK.
- REMOVE EXISTING ELECTRIC FORCED FLOW HEATER (EX.FFH) AND PREP FOR RELOCATION AS SHOWN ON NEW FLOOR PLAN.
- REMOVE EXISTING THERMOSTAT AND PREP CONTROL WIRING FOR RELOCATION SHOWN AS NEW ON NEW FLOOR PLAN (TYP. OF 4).
- EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK SERVING TELECOMMUNICATIONS CLOSET TO REMAIN.
- EXISTING EXHAUST FAN AND ASSOCIATED DUCTWORK SERVING CAFE REMAIN.
- EXISTING DOOR GRILLE SERVING TELECOMMUNICATIONS CLOSET TO REMAIN.
- REMOVE EXISTING SQUARE CONE DIFFUSER AND PREP FOR RELOCATION AS SHOWN ON NEW FLOOR PLAN. DISCARD EXISTING FLEX DUCTWORK CONNECTION. (TYP. OF 4)
- REMOVE EXISTING EGG-CRATE RETURN AIR GRILLE AND PREP FOR RELOCATION AS SHOWN ON NEW FLOOR PLAN.

HVAC GENERAL NOTES

- WORK SHALL CONFORM TO O.B.C. AND ALL APPLICABLE LOCAL AND NATIONAL CODES & STANDARDS.
- INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN DOCUMENTATION.
- PROVIDE MECHANICAL EQUIPMENT THAT IS LISTED AND LABELED BY UNDERWRITERS LABORATORIES (U.L.).
- CONTRACTOR TO VERIFY SITE CONDITIONS AND REPORT ANY DISCREPANCIES PRIOR TO WORK. FAILURE TO VERIFY AND REPORT SHALL CONSTITUTE CONTRACTOR'S ACCEPTANCE OF EXISTING CONDITIONS AS FIT FOR THE PROPER EXECUTION OF WORK.
- CONTRACTOR TO VERY SITE CONDITIONS AND REPORT ANY DISCREPANCIES PRIOR TO WORK.
- INSTALL EQUIPMENT AS INDICATED, ALLOWING FOR SUFFICIENT ACCESS AND CLEARANCE SPACE FOR MAINTENANCE, REPAIRS, AND REPLACEMENT.
- COORDINATE LOCATION, INSTALLATION, AND ROUTING OF DUCTWORK, PIPING AND EQUIPMENT WITH WORK OF ALL OTHER TRADES.
- PROVIDE SUPPORT FOR MECHANICAL EQUIPMENT. COORDINATE SUPPORT LOCATIONS WITH ALL CONTRACTORS PRIOR TO INSTALLATION.
- PROVIDE POWER CONNECTIONS TO EQUIPMENT PROVIDED UNDER THIS CONTRACT AS WORK OF DIVISION 26.
- PROVIDE POWER CONNECTIONS AND CONTROL WIRING TO EQUIPMENT PROVIDED UNDER THIS CONTRACT AS WORK OF DIVISION 26.
- PATCH, PAINT AND CLEAN SURFACES SUSTAINING DAMAGE ASSOCIATED WITH MECHANICAL WORK OF THIS CONTRACT, UNLESS NOTED OTHERWISE.
- REPAIR AND SEAL ALL CEILING BAFFLING WHERE DUCTWORK PENETRATIONS WERE RELOCATED. PARTITION AND CEILING BAFFLING TO RETAIN INITIAL INTEGRITY.
- CONFIRM FINAL LOCATIONS WITH ARCHITECT/INTERIOR DESIGNER PRIOR TO INSTALLATION. INSTALL NO MORE THAN 5 FEET ABOVE FINISHED FLOOR.

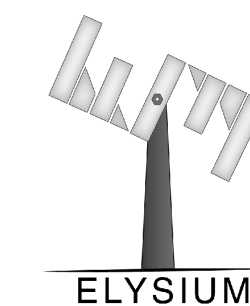


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MECHANICAL DRAWING NOTES

- REBALANCE EXISTING PERIMETER LINEAR SLOT DIFFUSERS AS INDICATED (TYPICAL).
- RELOCATED THERMOSTAT AND ASSOCIATED CONTROL WIRING SERVING CORRESPONDING VAV OR FPB AS INDICATED (TYP. OF 4).
- INSTALL RELOCATED SQUARE CONE DIFFUSER AS SHOWN. BALANCE AIRFLOW AS INDICATED ON DRAWING (TYP. OF 4).
- REBALANCE AIR FLOW ON EXISTING SQUARE CONE DIFFUSER AS INDICATED (TYPICAL).
- PROVIDE NEW FLEX DUCTWORK AND CONNECT TO EXISTING DIFFUSER. SIZE DUCTWORK AS SHOWN ON DRAWING (TYPICAL).
- PROVIDE NEW RIGID & FLEX DUCTWORK AND CONNECT TO EXISTING DIFFUSER. SIZE DUCTWORK AS SHOWN ON DRAWING (TYP. OF 3).
- PROVIDE NEW SPIN-OFF WITH RIGID DUCTWORK FROM EXISTING MAIN SUPPLY DUCTWORK (TYPICAL).
- PROVIDE NEW SPIN-OFF TRANSITION DUCTWORK FROM EXISTING MAIN SUPPLY DUCTWORK C/W WITH BALANCING DAMPER (TYPICAL).
- REBALANCE EXISTING VAV BOX IN CEILING SPACE AS SHOWN UPDATE BAS ACCORDINGLY. DAMPER TO MODULATE BETWEEN MIN. & MAX. SETTINGS IN RESPONSE TO TEMPERATURE & VENTILATION DEMANDS (TYPICAL).
- REBALANCE EXISTING FAN POWERED BOX (FPB) WITH REHEAT (RH) IN CEILING SPACE AS SHOWN UPDATE BAS ACCORDINGLY. DAMPER SETTING TO MODULATE BETWEEN MIN. & MAX. SETTINGS IN RESPONSE TO TEMPERATURE & VENTILATION DEMANDS (TYPICAL).
- INSTALL RELOCATED NEW EGG-CRATE RETURN AIR GRILLE AS SHOWN (TYP. OF 2).
- RELOCATED EXISTING ELECTRIC FORCED FLOW HEATER (EX.FFH) TO WHERE SHOWN AS NEW.
- PROVIDE NEW 32x14 ACOUSTICALLY LINED TRANSFER AIR DUCT.
- PROVIDE NEW 8x8 EH PRICE EGG-CRATE RETURN AIR GRILLE SERIES 80.

HVAC GENERAL NOTES

- WORK SHALL CONFORM TO O.B.C. AND ALL APPLICABLE LOCAL AND NATIONAL CODES & STANDARDS.
- INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN DOCUMENTATION.
- PROVIDE MECHANICAL EQUIPMENT THAT IS LISTED AND LABELED BY UNDERWRITERS LABORATORIES (U.L.).
- CONTRACTOR TO VERIFY SITE CONDITIONS AND REPORT ANY DISCREPANCIES PRIOR TO WORK. FAILURE TO VERIFY AND REPORT SHALL CONSTITUTE CONTRACTOR'S ACCEPTANCE OF EXISTING CONDITIONS AS FIT FOR THE PROPER EXECUTION OF WORK.
- CONTRACTOR TO VERY SITE CONDITIONS AND REPORT ANY DISCREPANCIES PRIOR TO WORK.
- INSTALL EQUIPMENT AS INDICATED, ALLOWING FOR SUFFICIENT ACCESS AND CLEARANCE SPACE FOR MAINTENANCE, REPAIRS, AND REPLACEMENT.
- COORDINATE LOCATION, INSTALLATION, AND ROUTING OF DUCTWORK, PIPING AND EQUIPMENT WITH WORK OF ALL OTHER TRADES.
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- PROVIDE POWER CONNECTIONS AND CONTROL WIRING TO EQUIPMENT PROVIDED UNDER THIS CONTRACT AS WORK OF DIVISION 26.
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- REPAIR AND SEAL ALL CEILING BAFFLING WHERE DUCTWORK PENETRATIONS WERE RELOCATED. PARTITION AND CEILING BAFFLING TO RETAIN INITIAL INTEGRITY.
- CONFIRM FINAL LOCATIONS WITH ARCHITECT/INTERIOR DESIGNER PRIOR TO INSTALLATION. INSTALL NO MORE THAN 5 FEET ABOVE FINISHED FLOOR.

REVISIONS

no.	date	by	description
03	24-08-16	R.R.	ISSUED FOR TENDER
02	24-08-12	R.R.	ISSUED FOR PERMIT
01	24-08-08	R.R.	ISSUED FOR 90% REVIEW

ISSUED

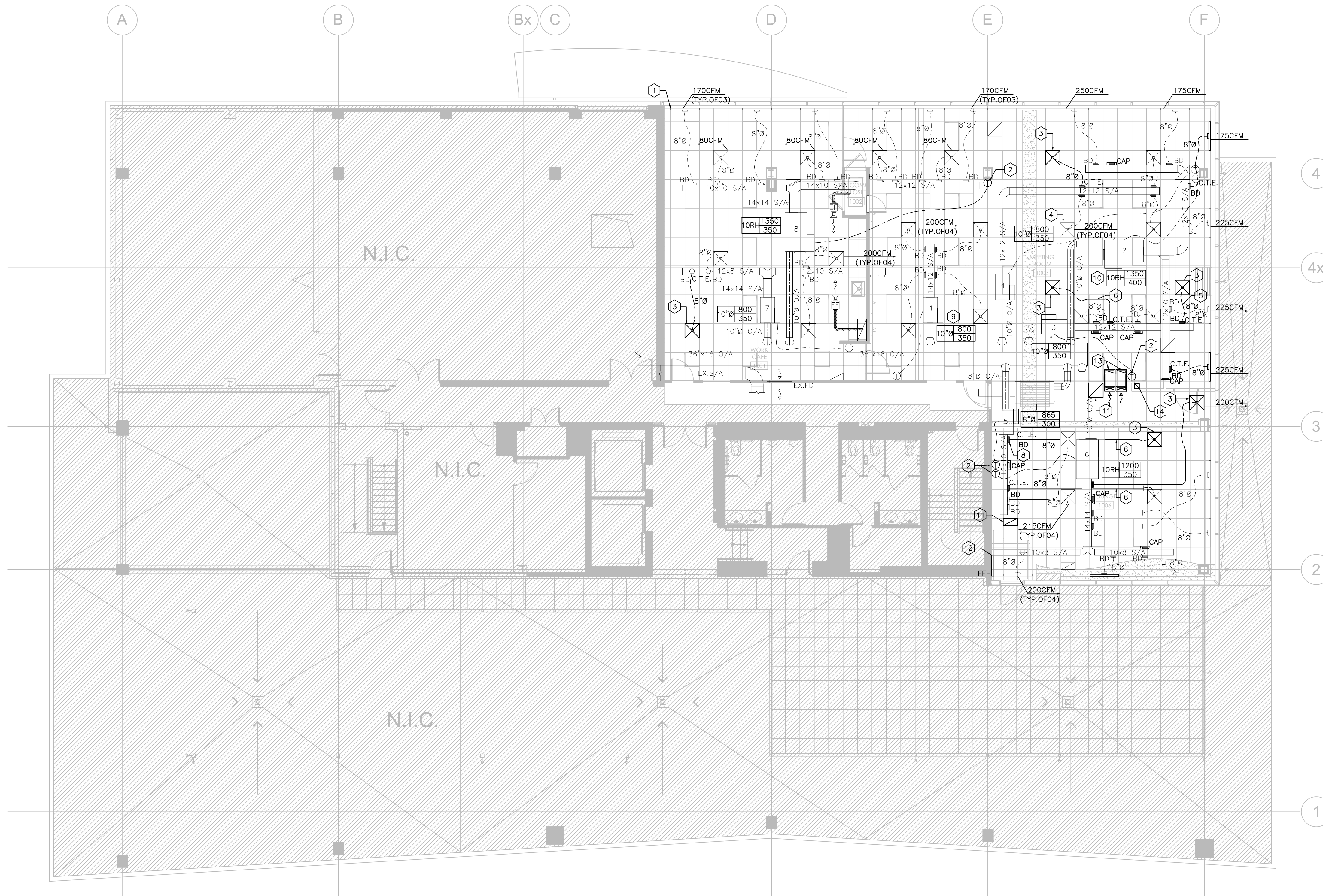
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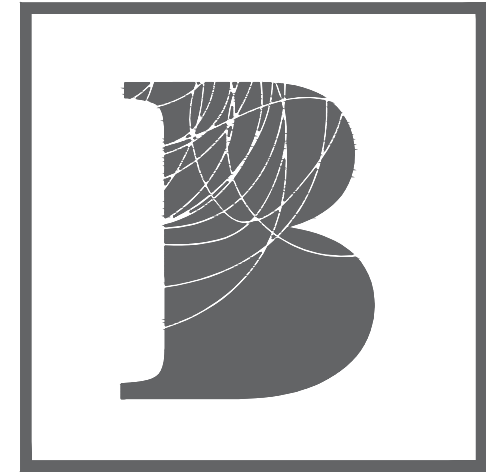
Project title
MPAC
1340 PICKERING PKWY
10TH FLOOR
PICKERING, ON

MECHANICAL - HVAC NEW FLOOR PLAN

date
JULY 2024
project no.
24-000-15
drawn by
A.P.
checked by
R.R.
scale
1/8" = 1'-0"

project no.
24-000-15
cod file
drawing no.
M-05



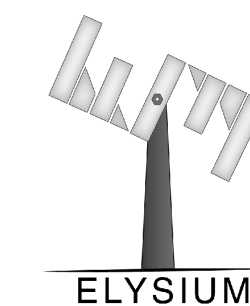


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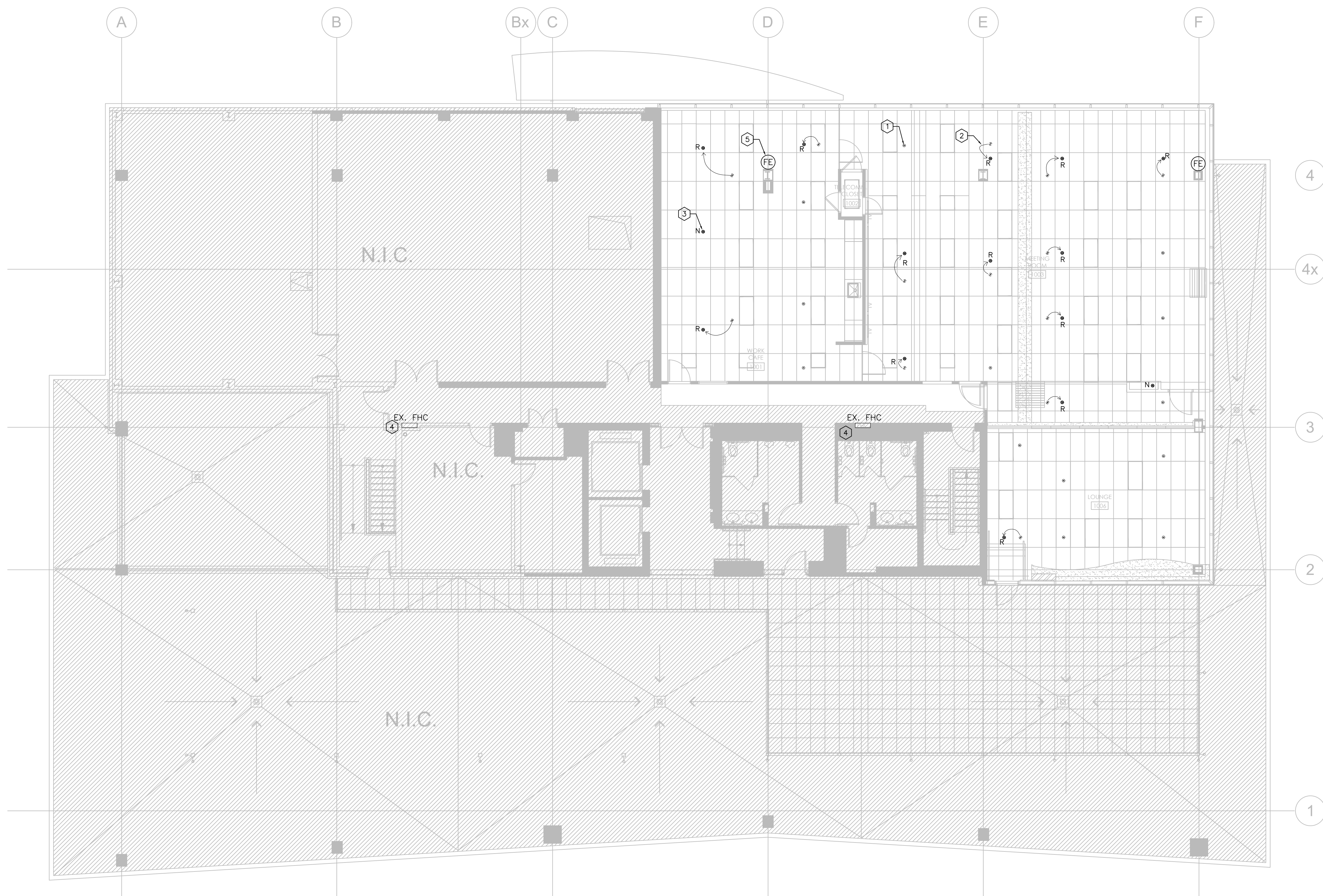
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- MECHANICAL DRAWING NOTES**
- EXISTING PENDANT SPRINKLER HEAD TO REMAIN (TYPICAL).
 - RELOCATE EXISTING PENDANT SPRINKLER HEAD TO WHERE SHOWN AS NEW. PROVIDE NEW SPRINKLER HEAD AND BRANCH PIPING USING RIGID PIPING AND FITTINGS (TYPICAL).
 - PROVIDE NEW PENDANT SPRINKLER HEAD C/W WITH RIGID PIPING DROP FROM MAIN. REFER TO MECHANICAL DETAILS FOR CONSTRUCTION.
 - EXISTING 100 FEET FIRE HOSE CABINET IN PUBLIC CORRIDOR TO REMAIN (TYP. OF 2).
 - PROVIDE NEW FIRE EXTINGUISHER, COORDINATE WITH LOCAL FIRE MARSHALL FOR EXACT QUANTITY AND LOCATION (TYPICAL).

- FIRE PROTECTION GENERAL NOTES**
- THE WORK UNDER THIS SECTION INCLUDES ALL LABOUR, MATERIALS, FEES AND ACTIVITIES NECESSARY TO INSTALL TEST AND COMMISSION A FULLY FUNCTIONAL AND CODE COMPLIANT SUPPRESSION SYSTEM.
 - THE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE INTENDED FOR PURPOSE OF OBTAINING A BUILDING PERMIT AND AS THE BASIS OF DESIGN FOR PREPARATION OF DETAILED SHOP DRAWINGS. THE DRAWINGS ARE NOT INTENDED TO SHOW EXACT LOCATION, BUT TO DEMONSTRATE THE CONFIGURATION. FIELD VERIFY LOCATIONS OF ALL SPRINKLERS AND COMPONENTS.
 - ALL COMPONENTS SHOWN ARE NEW UNLESS SPECIFICALLY NOTED AS EXISTING.
 - COORDINATE WITH THE LOCAL FIRE MAR SHALL FOR EXACT QUANTITY AND LOCATION OF FIRE EXTINGUISHERS.
 - CONTRACTOR TO ACCOUNT FOR (5) ADDITIONAL PENDANT SPRINKLER HEAD.
 - CONTRACTOR TO VERY SITE CONDITIONS AND REPORT ANY DISCREPANCIES PRIOR TO WORK.

no.	date	by	description
03	24-08-16	R.R.	ISSUED FOR TENDER
02	24-08-12	R.R.	ISSUED FOR PERMIT
01	24-08-08	R.R.	ISSUED FOR 90% REVIEW

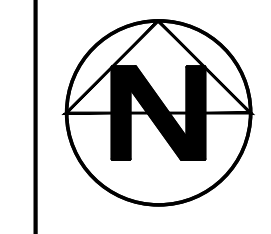
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Stamp

Project title
**MPAC
1340 PICKERING PKWY
10TH FLOOR
PICKERING, ON**

Drawing title
**MECHANICAL – FIRE
PROTECTION NEW FLOOR
PLAN**

date JULY 2024	project no. 24-000-15
drawn by A.P.	cod file
checked by R.R.	drawing no. M-06
scale 1/8" = 1'-0"	



MPAC

1340 PICKERING PKWY
10TH FLOOR

ELECTRICAL DRAWINGS

ISSUED FOR TENDER

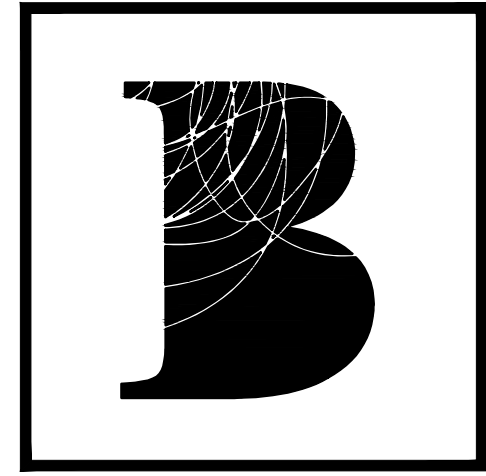
GENERAL NOTES

1. GENERAL:
 - 1.1 THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, STRUCTURAL ETC. DRAWINGS.
 2. LIGHTING:
 - 2.1 TO INSTALL NEW EMERGENCY LIGHTING, CONNECT WIRING FROM THE EXISTING CIRCUITS THAT ARE PRESENT IN THE CEILING SPACE. ENSURE THAT THE CIRCUIT IS NOT OVERLOADED. IN CASE IT IS REQUIRED, NEW CIRCUITS MUST BE PROVIDED. IF THE CURRENT EMERGENCY LIGHTING CIRCUITS ARE RATED AT 347V, AND THE EMERGENCY LIGHTS ARE RATED AT 120V, PROVIDE ALL NECESSARY AUTO TRANSFORMERS. RECIRCUIT THE EXISTING NORMAL AND EMERGENCY LIGHTING CIRCUITS TO MATCH THE LAYOUT THAT IS PROVIDED IN THE PLANS.
 - 2.2 CONNECT EXIT LIGHTS TO NEAREST EXIT LIGHT CIRCUIT ON THIS FLOOR. EXIT SIGNS TO MATCH BASE BUILDING STANDARD WITH GREEN RUNNING MAN PICTOGRAM. ENSURE THAT THE CIRCUIT IS NOT OVERLOADED. IN CASE IT IS REQUIRED, NEW CIRCUITS MUST BE PROVIDED. EXIT SIGN TO BE CERTIFIED AS PER CSA 22.2 NO.141-10, AND MEET ISO 3864-1 AND 7010. EXIT SIGNS TO BE PENDANT MOUNTED WHEN INSTALLED IN AN EXPOSED CEILING AREA.
3. POWER:
 - 3.1 CIRCUIT NUMBERS SHOWN ARE FOR GROUPING PURPOSES ONLY. ENSURE EVEN DISTRIBUTION OF CIRCUITS.
4. LIFE SAFETY:
 - 4.1 ALL NEW LIFE SAFETY DEVICES TO MATCH BASE BUILDING STANDARDS. ALL TIE-IN TO BASE BUILDING LIFE SAFETY SYSTEM TO BE DONE BY LANDLORD'S BASE BUILDING LIFE SAFETY CONTRACTOR. INCLUDE COST IN THIS CONTRACT. PROVIDE COST FOR ADDITION, RELOCATION, VERIFICATION AND TESTING OF THE LIFE SAFETY SYSTEM COMPONENTS.
5. IT/COMMS:
 - 5.1 PROVIDE EMPTY CONDUIT C/W PULL STRING, JUNCTION BOXES AND ALL NECESSARY ACCESSORIES TO FACILITATE THE PROPER INSTALLATION OF VOICE/ DATA CABLING. THE SUPPLY AND INSTALLATION OF VOICE/DATA CABLES TO BE BY THE COMMUNICATIONS CONTRACTOR.
6. SECURITY:
 - 6.1 PROVIDE 120V POWER AND CONDUIT COMPLETE WITH PULL STRING, JUNCTION BOXES AND ALL ANCILLARY DEVICES REQUIRED FOR THE PROPER INSTALLATION OF SECURITY CABLING AND DEVICES. SUPPLY AND INSTALLATION OF SECURITY DEVICES AND WIRING TO BE BY SECURITY CONTRACTOR. CONFIRM EXACT REQUIREMENTS WITH TENANT PRIOR TO COMMENCEMENT OF WORK.
 - 6.2 PROVIDE DOUBLE CONTACT FIRE ALARM PULL STATIONS WHERE FIRE ALARM PULL STATIONS ARE REQUIRED AT DOORS EQUIPPED WITH ELECTRO MAGNETIC LOCKS. CONNECT ONE CONTACT DIRECTLY TO THE SECURITY ELECTRO MAGNETIC LOCK AND THE OTHER CONTACT TO THE BASE BUILDING FIRE ALARM SYSTEM. CONFIRM FIRE ALARM PULL STATIONS HAVE DUAL CONTACTS IN LOCATIONS WHERE FIRE ALARM PULL STATIONS ARE SHOWN AS EXISTING AND REPLACE WITH NEW IF REQUIRED.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	NEW/RELOCATED BASE BUILDING LIGHT FIXTURE.
	BASE BUILDING LIGHT FIXTURE TO BE REMOVED.
	EXISTING BASE BUILDING LIGHT FIXTURE.
	LIGHT FIXTURES ON EMERGENCY CIRCUIT.
	CEILING MOUNTED POTLIGHT.
	SUSPENDED PENDANT.
	LIGHT SWITCH, 120V.1P.
	CEILING OR WALL MOUNTED OCCUPANCY SENSOR.
	LIGHT STRIP.
	EXIT SIGN TO MATCH BASE BUILDING STANDARD.
	CEILING MOUNTED AUDIO VISUAL SPEAKER.
	WALL MOUNTED DUPLEX RECEPTACLE. 120V.1P, 15A UNLESS OTHERWISE NOTED.
	WALL MOUNTED QUAD RECEPTACLE. 120V.1P, 20A UNLESS OTHERWISE NOTED.
	WALL MOUNTED T-SLOT RECEPTACLE. 120V.1P, 20A UNLESS OTHERWISE NOTED.
	WALL MOUNTED DUPLEX RECEPTACLE WITH DEDICATED NEUTRAL. 120V.1P, 15A UNLESS OTHERWISE NOTED.
	WALL MOUNTED DUPLEX/USB RECEPTACLE COMBINATION. 120V.1P, 15A UNLESS OTHERWISE NOTED.
	WALL MOUNTED SINGLE GANG DATA ROUGH-IN.
	WALL MOUNTED DOUBLE GANG DATA ROUGH-IN.
	WALL MOUNTED FOUR GANG DATA ROUGH-IN C/W MUDRING.
	SINGLE PHASE MOTOR CONNECTION COMPLETE WITH DISCONNECT SWITCH.
	JUNCTION BOX.
	SURFACE MOUNTED ELECTRICAL PANEL.
	FIRE ALARM PULL STATION.
	CEILING MOUNTED FIRE ALARM SPEAKER.
	CARD READER ROUGH-IN.
	DOOR CONTACT ROUGH-IN.
	MAGNETIC LOCK ROUGH-IN.
	PUSH BUTTON ROUGH-IN.
	CEILING MOUNTED TRANSFORMER.

NOMENCLATURE:
 D - DEMOLISH DEVICE
 E - EXISTING TO REMAIN
 R - EXISTING TO BE REMOVED OR RELOCATED
 ER - EXISTING IN RELOCATED POSITION
 R/R - REMOVE AND RE-INSTALL



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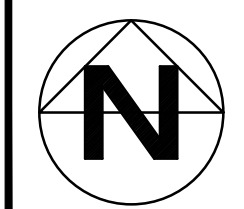
no.	date	by	description
03	16AUG24	AA	ISSUED FOR TENDER
02	12AUG24	AA	ISSUED FOR PERMIT
01	08AUG24	AA	ISSUED FOR 90% REVIEW



project title
MPAC
 1340 PICKERING PKWY
 10TH FLOOR
 PICKERING, ON

drawing title
ELECTRICAL LEGEND & GENERAL NOTES

date	16AUG2024	project no.	Z411
drawn by	AA	cod file	2411-E001
checked by	KA	drawing no.	E001
scale	N.T.S.		



ELECTRICAL SPECIFICATIONS

1. GENERAL REQUIREMENTS, CODES AND STANDARDS:

1.1. GENERAL REQUIREMENTS, INSTRUCTIONS TO BIDDERS, THIS SPECIFICATION AND ANY ADDENDA HERETO FORM PART OF THE CONTRACT DOCUMENTS AND MUST BE READ IN CONJUNCTION WITH THEM. WORK TO INCLUDE THE FURNISHING OF ALL LABOUR AND MATERIALS UNLESS SPECIFIED OTHERWISE. COMPLETE AND PUT INTO OPERATING CONDITION ALL ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS HEREIN.

1.2. ENSURE THAT THE INSTALLATION OF THE WORK IS CARRIED OUT IN ACCORDANCE WITH THE MOST RECENT EDITIONS OF THE ONTARIO BUILDING CODE, ONTARIO ELECTRICAL SAFETY CODE, C.S.A. STANDARDS, U.L.C., N.F.P.A., O.H.S.A., AND OTHER RELEVANT CODES AS NECESSARY. ADHERE TO ELECTRICAL AND BUILDING CODE BULLETINS APPLICABLE AT THE TIME OF BID SUBMISSION, ALTHOUGH NOT IDENTIFIED AND SPECIFIED BY NUMBER IN THIS DIVISION, THEY MUST BE REGARDED AS INTEGRAL COMPONENTS OF ASSOCIATED STANDARDS. ALL ELECTRICAL WORK MUST MEET THE LANDLORD'S SPECIFICATIONS/REQUIREMENTS AND THE BASE BUILDING STANDARDS. THE CONTRACTOR MUST OBTAIN ALL LANDLORD'S REQUIREMENTS AND BASE BUILDING STANDARDS FROM THE LANDLORD DURING THE TENDER PERIOD.

2. PERMITS, CODES AND INSPECTION OF EXISTING CONDITIONS:

2.2. THE ELECTRICAL CONTRACTOR, IN ACCORDANCE WITH SECTION 2 OF THE O.E.S.C., MUST ACT AS THE OWNERS AGENT AND SHALL PROMPTLY UPON CONTRACT AWARD, SUBMIT TO THE LOCAL ELECTRICAL INSPECTION DEPARTMENT, THE NECESSARY DOCUMENTS FOR EXAMINATION, SPECIALIZED INSPECTION AND APPROVAL IN ADVANCE OF WORK COMMENCEMENT, WHILE COVERING ALL ASSOCIATED COSTS AND FEES. IF NECESSARY, PREPARE ANY SUPPLEMENTARY DRAWINGS OR DOCUMENTATION AS MANDATED BY THE AUTHORITY.

2.3. UPON REQUEST, THE CONSULTANT WILL PROVIDE THE REQUIRED QUANTITY OF DRAWINGS AT THE CONTRACTORS COST.

2.4. UPON COMPLETION OF WORK, PROVIDE CERTIFICATE(S) OF ACCEPTANCE FROM THE AUTHORITIES INSPECTION DEPARTMENT.

2.5. PERFORM A SITE VISIT TO INSPECT THE SITE AND ASSESS THE PRESENT CONDITIONS IMPACTING THE WORK OF THIS DIVISION PRIOR TO BID SUBMISSION. NO CLAIM FOR ADDITIONAL PAYMENT SHALL BE MADE FOR EXTRA WORK ARISING FROM CIRCUMSTANCES RESULTING FROM CONDITIONS EVIDENT DURING, OR REASONABLY DERIVABLE FROM, AN EVALUATION OF THE SITE BEFORE BID SUBMISSION. THIS ENCOMPASSES THE EXISTING SERVICES ABOVE CEILING.

2.6. NOTE THAT ASBESTOS FIBERS MAY BE PRESENT IN VARIOUS COATINGS OR ON VARIOUS SURFACES, LOCATED IN SPECIFIC AREAS OF THE BUILDING. ORGANIZE WORK/TASKS TO AVOID DISTURBING THESE MATERIALS, OR IMPLEMENT FULL AND NECESSARY MEASURES TO SHIELD ALL PERSONNEL FROM CONTACT WITH THEM, IN A MANNER SUBJECT TO APPROVAL BY THE LANDLORD. FACTOR IN ALL COSTS TIED TO ANY REQUIRED REMEDIAL WORK IN THE BID.

2.7. EXAMINE THE ARCHITECTURAL, STRUCTURAL, MECHANICAL DRAWINGS AND WORK OF OTHER TRADES TO ENSURE WORK UNDER THIS BID CAN BE CARRIED OUT SATISFACTORILY WITHOUT CHANGES TO THE BUILDING AS SHOWN ON THE PLANS. SHOULD ANY CHALLENGES ARISE THAT INDICATE CONFLICTS OR DEMAND ADDITIONAL WORK BEYOND WHAT IS DEPICTED IN THESE DRAWINGS, NOTIFY THE ENGINEER PRIOR TO TENDER SUBMISSION.

3. MATERIALS AND EQUIPMENT:

3.1. THE ELECTRICAL CONTRACTOR SHALL USE MATERIALS THAT MATCH BASE BUILDING STANDARDS, ALL NEW EQUIPMENT USED SHALL BE C.S.A. CERTIFIED.

3.2. THE ELECTRICAL CONTRACTOR SHALL USE CONDUIT FOR ALL FEEDER RUNS AS INDICATED ON DRAWINGS.

3.3. ALL MATERIAL AND EQUIPMENT MUST BE NEW, CERTIFIED AS PER CSA/CUL OR APPROVED BY THE O.E.S.C., AND MANUFACTURED TO THE MENTIONED GUIDELINES.

3.4. IN CASE THERE IS NO SUBSTITUTE FOR PROVIDING EQUIPMENT THAT LACKS CERTIFICATION AS PER C.S.A./C.U.L. OR AS APPROVED BY THE O.E.S.C., OBTAIN SPECIAL APPROVAL FROM THE ELECTRICAL SAFETY AUTHORITY.

3.5. ALL PANEL BOARDS, DISCONNECT SWITCHES, TRANSFORMERS, METERS ETC. TO HAVE COPPER WINDINGS AND TO BE OF THE SAME MANUFACTURER AND HAVE THE SAME RATING, MANUFACTURER AND BE OF THE SAME TYPE AS BASE BUILDING EQUIPMENT UNLESS OTHERWISE NOTED. MOLDED CASE CIRCUIT BREAKERS TO BE BOLT ON AND OF THE SAME MANUFACTURER, RATING AND TYPE AS BASE BUILDING BREAKERS. ALL SURFACE MOUNTED PANEL BOARDS TO BE SPRINKLER PROOF, IF UNABLE TO MATCH BASE BUILDING EQUIPMENT ONE OF THE FOLLOWING MANUFACTURERS MUST BE USED: SCHNEIDER ELECTRIC, SIEMENS OR CUTLER HAMMER.

3.6. ALL NEW PANEL BOARDS TO HAVE 200% RATED NEUTRAL BUS.

3.7. DRY TYPE TRANSFORMERS TO BE OF THE SAME TYPE AND MANUFACTURER AS BASE BUILDING, WITH A DESIGN K FACTOR OF 13 AND WITH ELECTROSTATICALLY SHIELDED COPPER WINDINGS. PROVIDE DOUBLE LUGS ON TRANSFORMER NEUTRALS FOR CABLE CONNECTIONS. IF UNABLE TO MATCH BASE BUILDING TRANSFORMER ONE OF THE FOLLOWING MANUFACTURERS MUST BE USED: SCHNEIDER, HAMMOND, REX, DELTA.

3.8. FOR GROUNDING BUS BARS COVER TIPS, LUGS AND COPPER GROUND BAR WITH "PENETROX E" FROM "BURNUDY" OR "KOPR-SHIELD" FROM "TAB" AND GROUND ALL RACKS, PANELS, CABLE TRAYS AND EQUIPMENT VIA INDIVIDUAL #6AWG GREEN INSULATED GROUND WIRE.

3.9. ELECTRICAL PANELS TO MATCH BASE BUILDING STANDARD. NEW PANELS TO BE COMPLETE WITH MOLDED CASE CIRCUIT BREAKERS, BALANCE PANEL LOADS FOR EACH PHASE A, B & C. ALLOW FOR RELOCATING CIRCUITS WITHIN PANEL BOARD TO BALANCE THE LOAD.

3.10. USE CONDUIT FOR ALL FEEDER RUNS AS INDICATED ON DRAWINGS. ¾" IS TO BE THE MINIMUM CONDUIT SIZE FOR ALL APPLICATIONS.

4. DEFINITIONS:

4.1. WHEREVER THE TERMS "PROVIDE" OR "SUPPLY AND INSTALL" ARE USED THEY SHALL MEAN TO "PROVIDE AND INSTALL, INCLUSIVE OF ALL LABOUR, MATERIAL, INSTALLATION, TESTING AND CONNECTIONS" TO THE ITEM IN QUESTION.

4.2. WHEREVER THE TERMS "EQUAL", "APPROVED", OR "APPROVED EQUAL" ARE USED, THEY SHALL MEAN "EQUAL", "APPROVED", OR "APPROVED EQUAL" IN THE OPINION OF THE CONSULTANT ONLY.

5. DRAWINGS AND SPECIFICATIONS:

5.1. DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY AND SHALL ACT AS ONE PACKAGE. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS TO ENSURE THE CONTRACTOR PROVIDES COMPLETE AND FULLY FUNCTIONAL SYSTEMS AS REQUIRED. SHOULD DISCREPANCIES ARISE, THE MOST STRINGENT CONDITION WILL TAKE PRECEDENCE.

5.3. ALL MISCELLANEOUS ELEMENTS, FITTINGS, EQUIPMENT, WIRING, ETC., NOT EXPLICITLY DESCRIBED BUT NECESSARY FOR SYSTEM OPERATION, MUST BE SUPPLIED AND INCORPORATED WITHIN THE BID.

5.4. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC PERFORMANCE DRAWINGS ONLY, AIMED AT OUTLINING THE SCOPE OF WORK, AND PROVIDING AN OVERVIEW OF ELECTRICAL EQUIPMENT'S APPROXIMATE SIZE AND LOCATION. THE DRAWINGS DO NOT INCLUDE ARCHITECTURAL, INTERIOR DESIGN, MECHANICAL, STRUCTURAL, OR BASE BUILDING SPECIFICS AND DETAILS. ELECTRICAL CONTRACTOR HAS THE RESPONSIBILITY TO THOROUGHLY FAMILIARIZE THEMSELVES WITH THIS INFORMATION BEFORE COMMENCING WORK.

5.5. DO NOT SCALE OR MEASURE THE DRAWINGS. INSTEAD, GATHER ACCURATE DIMENSIONAL DATA FROM THE DESIGN CONSULTANT'S/ARCHITECT'S DRAWINGS OR IN ACCORDANCE WITH SITE REQUIREMENTS.

5.6. IN CASE OF ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS, AND EXISTING CONDITIONS, CONTACT THE DESIGN CONSULTANT/ARCHITECT BEFORE INITIATING WORK ON THE AFFECTED AREA.

5.7. COLLABORATE AND COORDINATE WITH OTHER CONTRACTORS WHEN PLANNING OUT THE WORK TO AVOID CONFLICTS WITH THE WORK OF OTHER CONTRACTORS. EXECUTE THE WORK PROMPTLY AS PER THE CONSTRUCTION SCHEDULE, ENSURING IT IS COORDINATED WITH OTHER CONTRACTORS' TASKS.

5.8. MAKE ANY NECESSARY CHANGES OR ADDITIONS TO MATERIALS AND EQUIPMENT TO ACCOMMODATE STRUCTURAL CONDITIONS (SUCH AS OFFSETS AROUND BEAMS, COLUMNS, ETC.) AT NO ADDITIONAL COST.

6. INSURANCE:

6.1. OBTAIN AND UPKEEP INSURANCE COVERAGE TO SAFEGUARD THE LANDLORD, TENANT, AND TRADES AGAINST ANY POTENTIAL CLAIMS. INCLUDE WITH THE BID AT A LEVEL SATISFACTORY TO BOTH LANDLORD AND TENANT.

7. SETTING OUT OF WORK:

7.1. COORDINATE WITH THE LANDLORD BEFORE TURNING OFF ANY ELECTRICAL EQUIPMENT WHICH ARE INCLUDED WITHIN THE SCOPE OF WORK (PANELS, DISCONNECT SWITCHES ETC.)

7.2. THE ELECTRICAL TRADE SHALL RECTIFY ANY WORK DONE IN A MANNER CONTRARY TO THE INTENT OF THE DRAWINGS AND SPECIFICATIONS, AND SHALL BEAR ALL ASSOCIATED COSTS. IN CASES WHERE THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS AMBIGUOUS, SEEK CLARIFICATION PRIOR TO COMMENCING THE WORK.

8. CLEAN UP:

8.1. ELECTRICAL TRADE AND ITS SUB-TRADES TO KEEP THE SITE FREE OF ALL DEBRIS, BOXES, PACKING ETC. RESULTING FROM WORK OF THIS TRADE AT ALL TIMES.

8.2. ELECTRICAL INSTALLATION TO BE LEFT IN A CLEAN AND FINISHED CONDITION TO SATISFACTION OF THE CONSULTANT UPON COMPLETION OF WORK.

9. LOCATION OF OUTLETS:

9.1. REFER TO THE DESIGN CONSULTANT'S/ARCHITECT'S DRAWINGS FOR EXACT LOCATION AND PLACEMENT OF ALL LIGHTING FIXTURES AND WIRING DEVICES.

9.2. RELOCATE OUTLETS WITHOUT ANY ADDITIONAL EXPENSE OR CREDIT, SO LONG AS THE DISTANCE DOES NOT SURPASS 3 METERS (10').

9.3. ENSURE ALL OUTLETS ARE LABELED ON THE WORK SITE AND APPROVED BY THE DESIGN CONSULTANT/ARCHITECT BEFORE INSTALLATION.

10. CORING, CUTTING AND PATCHING:

10.1. PRIOR TO COMMENCING CORE DRILLING ON THE FLOOR SLAB OR STRUCTURAL WALLS, IT IS IMPERATIVE TO CONDUCT X-RAY EXAMINATION OF THE SLAB OR WALLS. ENSURE THAT THE LOCATIONS ARE FORMALLY APPROVED BY THE LANDLORD IN WRITING.

10.2. IN THE EVENT OF ANY EXISTING BUILDING SERVICE SUFFERING DAMAGE DUE TO CORE DRILLING, PROMPT REPAIRS MUST BE UNDERTAKEN WITHOUT INCURRING ANY COST TO EITHER THE LANDLORD OR TENANT.

10.3. FLOOR DRILLING SHALL BE EXECUTED POST REGULAR WORKING HOURS AND ONLY AT A TIME MUTUALLY AGREED UPON BY THE LANDLORD. ALLOWANCES FOR THIS TASK SHOULD BE INCLUDED IN THE BID PRICE UPON SUBMISSION.

10.4. ALL REQUIRED CUTTING AND PATCHING TO THE EXISTING BUILDING STRUCTURE MUST FALL WITHIN THE SCOPE OF THIS AGREEMENT AND MUST MEET THE LANDLORD'S APPROVAL. OBTAIN WRITTEN APPROVAL FROM THE LANDLORD BEFORE INITIATING ANY MODIFICATIONS.

10.5. IN CASE CONDUITS PASS THROUGH FIRE-RATED WALLS OR FLOORS, PROVIDE FIRE STOPPING MATERIALS THAT ARE CERTIFIED BY AND BEAR THE LABEL OF CSA AND ULC, AND ENSURE THEY MAINTAIN THE SAME FIRE RATING AS THE PENETRATED BUILDING COMPONENT.

11. ACCESS DOORS:

11.1. ENSURE THAT ANY BASE BUILDING EQUIPMENT NEEDING ACCESS, MAINTENANCE, OR ADJUSTMENT IS EQUIPPED WITH ACCESS DOORS THAT HAVE BEEN APPROVED BY THE DESIGN CONSULTANT/ARCHITECT AND THE LANDLORD. COORDINATE WITH THE RESPONSIBLE DIVISION TO FACILITATE ITS INSTALLATION.

12. PAINTING AND FINISHES:

12.1. ALL ELECTRICAL FITTINGS, SUPPORTS, HANGER RODS, PULLBOXES, CHANNEL FRAMES, CONDUIT RACKS, OUTLET BOXES, BRACKETS, CLAMPS ETC. TO HAVE GALVANIZED FINISH OR PAINT FINISH OVER CORROSION RESISTANT PRIMER.

13. MOUNTING HEIGHTS:

13.1. MOUNTING HEIGHTS TO BE PER ARCHITECTURAL AND/OR INTERIOR DESIGNER'S DRAWINGS UNLESS NOTED OTHERWISE.

14. SHOP DRAWINGS:

14.1. PROVIDE A SET OF SHOP DRAWINGS FOR ELECTRICAL EQUIPMENT SPECIFIED IN THIS PACKAGE FOR APPROVAL BY THE DESIGNER BEFORE ANY PURCHASE IS MADE.

14.2. CHANGES MADE TO THE SHOP DRAWINGS BY THE CONSULTANT WILL NOT AFFECT THE CONTRACT PRICE.

14.3. ALL WORK DONE PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

14.4. ENGINEER'S ASSESSMENT OF SHOP DRAWINGS IS FOR GENERAL DESIGN ONLY AND DOES NOT ABSOLVE THE ELECTRICAL TRADE OR SUPPLIERS FROM ENSURING ACCURACY, CORRECT ASSEMBLY, AND PROVISION OF MATERIALS. THIS REVIEW DOES NOT CONSTITUTE APPROVAL OF DEVIATIONS FROM CONTRACT SPECIFICATIONS UNLESS SPECIFICALLY INDICATED. THE ELECTRICAL TRADE IS ACCOUNTABLE FOR VERIFYING ALL DIMENSIONS.

15. RECORD DRAWINGS:

15.1. ONCE THE WORK IS CONCLUDED AND PRIOR TO FINAL APPROVAL, PROVIDE RECORD DRAWINGS OF THE INSTALLATION IN AUTOCAD 2018 OR A MORE RECENT VERSION. THE ELECTRICAL CONTRACTOR WILL RECEIVE AN ELECTRONIC COPY IN AUTOCAD FORMAT OF ALL DRAWINGS FROM THE CONSULTANT, WITHOUT ANY CHARGE. THESE DRAWINGS WILL ACCURATELY REPRESENT THE ORIGINAL TENDER AND CONSTRUCTION SET. ALL REVISIONS MADE ON SITE DURING CONSTRUCTION MUST BE ACCURATELY RECORDED.

15.2. INCORPORATE ALL MODIFICATIONS AND DEVIATIONS FROM THE TENDER DRAWINGS USING ESTABLISHED DRAFTING PRACTICES THAT ALIGN WITH THE ORIGINAL DRAFTING METHOD.

15.3. ENSURE THAT THE ELECTRICAL ENGINEER'S SEAL IS REMOVED FROM ALL RECORD DRAWINGS AND THAT RELIABLE ENGINEERING INC'S LOGO REMAINS VISIBLE ON ALL RECORD DRAWINGS.

15.4. CLEARLY DISPLAY THE TERM "RECORD DRAWINGS" OR "AS-BUILTS" IN THE TITLE BLOCK SECTION OF THE DRAWINGS, ALONG WITH THE ELECTRICAL CONTRACTOR'S NAME, ADDRESS AND CONTACT INFORMATION.

15.5. SHOW ALL MAJOR JUNCTION BOXES, CORE HOLES, CONDUIT HOME RUNS AND CIRCUIT NUMBERS ON AS-BUILT DRAWINGS.

15.6. PROVIDE THREE (3) COPIES OF MAINTENANCE MANUALS TO INCLUDE ALL NEW ELECTRICAL EQUIPMENT LIKE LIGHT FIXTURES, EXIT LIGHTS, BATTERY UNITS, LIGHTING CONTROLS, PANELS, TRANSFORMERS ETC.

15.7. SUBMIT A SINGLE (1) SET OF CAD AND PDF DRAWINGS TO THE CONSULTANT FOR REVIEW, ONCE APPROVED BY THE CONSULTANT, PROVIDE THREE (3) SETS OF PRINTS FOR PRESENTATION TO THE LANDLORD AND TENANT.

16. EQUIPMENT IDENTIFICATION:

16.1. LABEL ALL RECEPTACLES WITH CIRCUIT NUMBER AND PANEL NAME OR IDENTIFICATION.

17. WORK IN NEW AND RENOVATED AREAS:

17.1. DISCONNECT AND REMOVE EXISTING LUMINAIRES, DEVICES, OUTLETS, ETC., THAT WILL NOT BE REUSED. THESE ITEMS MUST BE PACKAGED AND HANDED OVER TO THE LANDLORD AT A LOCATION DESIGNATED BY THEM. CUT BACK AND CAP UNUSED RACKWAYS AND OUTLETS, AND REMOVE UNUSED WIRING BACK TO THE PANELBOARD IN AN APPROVED MANNER. REMOVE ALL UNNECESSARY AND/OR REDUNDANT COMMUNICATIONS CABLES BACK TO HUB ROOMS AND/OR TELEPHONE RISER ROOMS.

17.2. WHEN REMOVING AND/OR MAKING SAFE EXISTING ELECTRICAL WORK, ENSURE THAT IT ENTAILS THE COMPLETE REMOVAL OF ALL DISCONNECTED WIRING BACK TO THE ASSOCIATED PANEL BOARD OR DISTRIBUTION EQUIPMENT.

17.3. THOROUGHLY INSPECT AND REFURBISH ALL EXISTING EQUIPMENT SLATED FOR REUSE AND/OR RELOCATION TO ENSURE PROPER FUNCTIONALITY UPON REINTEGRATION INTO SERVICE. REPLACE OUTLET BOXES, WIRING, AND/OR CONDUITS THAT ARE CORRODED OR DAMAGED. ENSURE COMPLIANCE WITH LOCAL ELECTRICAL SAFETY AUTHORITY'S STANDARDS.

17.4. ALL EXISTING ELECTRICAL EQUIPMENT THAT IS NO LONGER REQUIRED MUST BE REMOVED AND DISPOSED OF OFF-SITE.

17.5. IN CASE EXISTING OUTLET BOXES ARE REMOVED FROM EXISTING UNDER-FLOOR DUCTS, SEAL AND CAP THE VACATED HOLES FLUSH WITH THE FLOOR USING APPROVED FITTINGS. REMOVE ALL REDUNDANT WIRE AND CABLE BACK TO SOURCE.

17.6. ASSUME RESPONSIBILITY AND COVER ANY DAMAGES TO THE BASE BUILDING CAUSED BY THE WORK IN THIS DIVISION, OR REPAIR TO THE SATISFACTION OF THE CONSULTANT.

17.7. EXECUTE THE WORK WITH MINIMAL NOISE, DUST, AND DISTURBANCE.

17.8. RELOCATE AND REROUTE EXISTING CONDUITS THAT ARE TO REMAIN IN "FINISHED" AREAS WHICH WILL BE EXPOSED.

17.9. CONDUITS THAT ARE TO BE CUT BACK MUST TERMINATE IN A JUNCTION BOX.

17.8. PROVIDE NECESSARY TOOLS AND CLEAN-UP EQUIPMENT. OBTAIN APPROVAL FROM THE LANDLORD FOR THE USE OF ELECTRICAL, ELEVATOR, PLUMBING, OR DRAINAGE OUTLETS.

17.9. PERFORM DAILY CLEAN-UP AND PROPER DISPOSAL OF DEBRIS GENERATED DURING DAILY OPERATIONS. UPON COMPLETION OF THE WORK, REMOVE ALL TOOLS, SURPLUS MATERIALS, AND WASTE MATERIALS, AND LEAVE THE PREMISES IN A CLEAN AND PRISTINE CONDITION.

17.10. THOROUGHLY CLEAN LUMINAIRE REFLECTORS AND LENSES, LAMPS, AND OTHER SURFACES THAT HAVE BEEN EXPOSED TO CONSTRUCTION DUST AND DIRT. CLEAN THE INSIDES AND OUTSIDES OF PANELBOARDS, SPLITTERS, AND OTHER ELECTRICAL EQUIPMENT, AND COMPLETELY REMOVE ALL DEBRIS AND TOOLS FROM THE PROJECT.

18. TESTING:

18.1. TEST ALL PORTIONS OF ELECTRICAL WORK AND ENSURE SATISFACTORY OPERATION.

18.2. PERFORM INSULATION RESISTANCE TESTING ON ALL POWER CIRCUIT FEEDERS USING A MEGGER. SHOULD THE GROUND RESISTANCE ON ANY CIRCUIT FALL BELOW THE STANDARDS MANDATED BY CSA OR OTHER APPLICABLE REGULATIONS, THESE CIRCUITS ARE DEEMED DEFECTIVE AND MUST BE REPLACED.

18.3. MEASURE PHASE CURRENT TO PANEL BOARDS, FEEDERS, DISTRIBUTION CENTERS ETC. WITH NORMAL LOADS OPERATING AT TIME OF ACCEPTANCE. TESTS TO BE CARRIED OUT BY TURNING ON ALL POSSIBLE LOADS AND CHECKING LOAD CURRENT BALANCE. ADJUST BRANCH CIRCUIT CONNECTIONS AS REQUIRED TO OBTAIN THE BEST BALANCE OF CURRENT BETWEEN PHASES AND SUBMIT A REPORT FOR INSERTION INTO MANUALS.

21. DEMOLITION:

21.1. DEMOLITION OF ELECTRICAL DEVICES INCLUDES REMOVAL OF DEVICE, AND ITS ELECTRICAL CONNECTION BACK TO THE PANEL AND/OR MAIN SOURCE OF POWER. REMOVE ALL CONDUIT AND CABLING BACK TO SOURCE AND MAKE SAFE ELECTRICALLY.

22. SERVICE INTERRUPTION:

22.1. ELECTRICAL SERVICE INTERRUPTIONS IN ANY PART OF THE BUILDING SHALL ONLY OCCUR THROUGH PRIOR ARRANGEMENT WITH AND AT TIMES AGREED UPON BY THE LANDLORD.

22.2. INTERRUPTIONS SHALL ONLY TAKE PLACE DURING PREMIUM TIME PERIODS. ALL COSTS FOR THIS SHALL BE INCLUDED IN THE SUBMITTED PRICE.

23. CONDUITS AND FITTINGS:

23.1. ALL CONDUITS USED HAVE TO EITHER TERMINATE IN AN ELECTRICAL DEVICE OR IN A JUNCTION BOX.

23.2. ALL CABLES MUST BE RUN IN THREADED METAL CONDUIT.

23.3. THE MINIMUM SIZE OF ELECTRICAL CONDUIT TO BE USED MUST BE 3/4" (21MM) INCLUDING ALL UNDIMENSIONED CONDUITS SHOWN IN THESE DRAWINGS.

23.4. PROVIDE CONDUITS UP TO AND INCLUDING 103MM (4") DIAMETER, UTILIZING EMT SLIM WALL TUBING WITH STEEL SET-SCREW TYPE FITTINGS AND WEATHER-RESISTANT CONNECTORS. FEATURING "O" RINGS IN SPRINKLER-EQUIPPED BUILDINGS. BUSHINGS AND CONNECTORS SHALL BE WITH INSULATED THROATS.

23.5. ARRANGE CONDUITS TO PRESERVE HEADROOM, ALIGNING THEM PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE. AVOID SUSPENDING CONDUITS FROM CEILING SUPPORTS.

23.6. PROVIDE FLEXIBLE LIQUID-TIGHT CONDUIT FOR LINKING TO MOTORS, TRANSFORMERS, AND WHEN CROSSING BUILDING EXPANSION JOINTS.

23.7. ALL EMPTY CONDUITS MUST BE COMPLETE WITH NYLON FISHING WIRE.

23.8. INSTALL TWO (2) SPARE CONDUITS WITH A DIAMETER OF 27MM (1") LEADING UP TO THE CEILING AREA FOR EACH RECESSED PANELBOARD. TERMINATE THESE CONDUITS IN A COVERED JUNCTION BOX OF 150MM X 150MM X 100MM (6" X 6" X 4") LOCATED IN THE CEILING SPACE.

23.9. FOR SPACES BENEATH RAISED FLOORS IN COMPUTER ROOMS AND LAN ROOMS, EMPLOY PLENUM-CERTIFIED LIQUID-TIGHT FLEXIBLE METAL CONDUITS. ENSURE CONDUITS FOLLOW THE GRID OF THE RAISED FLOOR AND LIE FLAT AGAINST THE FLOOR SURFACE.

23.10. ALL COMMUNICATIONS CONDUITS SHOULD BE PROPERLY REAMED AND FITTED WITH INSULATED BUSHINGS AT BOTH ENDS. THE CONTRACTOR IS REQUIRED TO NOTIFY THE CONSULTANT OF ANY COMMUNICATIONS CONDUIT LENGTHS EXCEEDING 70M (230 FT.) BEFORE INSTALLATION.

23.11. UTILIZE RIGID STEEL CONDUIT UP TO 2.4M (8'-0") ABOVE FINISHED FLOOR IN EXPOSED INDOOR AND OUTDOOR AREAS.

22. WIRING DEVICES:

22.1. ALL HOME RUNS MUST BE IN CONDUITS.

22.2. SIZE ALL WIRING FOR A MAXIMUM VOLTAGE DROP OF 2%.

22.3. ALL WALL MOUNTED DEVICES TO BE VERTICALLY FED. HORIZONTAL RUNS THROUGH PARTITIONS ARE PROHIBITED, UNLESS SPECIFIED FOR LOW HEIGHT PARTITIONS OR NOTED ON THE DRAWINGS.

22.4. ALL WIRE AND CABLE MUST BE COPPER, MINIMUM 12 GAUGE, CABLE NO. 12 AND NO. 10 TO BE SOLID, NO. 8 AND LARGER TO BE STRANDED WITH RW90XLP INSULATION, AND 600 VOLT RATING.

22.5. FOR CEILING SPACES, BX#12 MAY BE USED FROM THE CEILING DISTRIBUTION BOX TO RECEPTACLES IN PARTITIONS. ENSURE BX CABLES IN CEILING SPACES DO NOT EXCEED A LENGTH OF 5048MM (10'-0"). AVOID RUNNING BX CABLES INTO PANELBOARDS.

23. SUPPORTS:

23.1. ALL SURFACE CONDUITS, ELECTRICAL EQUIPMENT ETC., TO BE SECURELY AND ADEQUATELY SUPPORTED.

23.2. WHERE INSERTS ARE REQUIRED IN CONCRETE, EXPANSION INSERTS, LEAD INSERTS OR PLASTIC INSERTS TO BE USED IN DRILLED HOLES. SHOT DRIVEN PINS TO BE USED IN STRUCTURAL CONCRETE ONLY UPON BASE BUILDING STRUCTURAL ENGINEER'S APPROVAL.

24. GROUNDING:

24.1. ENSURE ALL EQUIPMENT IS PROPERLY GROUNDED IN COMPLIANCE WITH THE MOST RECENT EDITION OF THE ELECTRICAL SAFETY CODE. PROVIDE A SEPARATE GREEN INSULATED GROUND CONDUCTOR IN EVERY CONDUIT FOR ALL DEVICES, LUMINAIRES, AND FEEDERS (SUCH AS PANELBOARDS, SPLITTERS, DISCONNECT SWITCHES, ETC.).

25. LIGHTING LUMINAIRES, SWITCHES, DIMMERS, EXIT & EMERGENCY LIGHTING:

LUMINAIRES:

25.1. ALL LUMINAIRES MUST BE CSA APPROVED.

25.2. ALL LUMINAIRES TO BE PROVIDED AS PER DRAWINGS AND LUMINAIRE SCHEDULE.

25.3. ALL LUMINAIRES TO BE COMPLETE WITH NEW LAMPS, BALLASTS, ACCESSORIES AND MOUNTING COMPONENTS.

25.4. ALL LUMINAIRES TO BE ALIGNED AND ADJUSTED IN THE PRESENCE OF THE CONSULTANT.

25.5. ALL FLOURESCENT AND PL LAMP COLOURS MUST BE CONSISTENT. PROVIDE NEW LAMPS FOR NEW AND EXISTING LUMINAIRES AS REQUIRED. CONFIRM EXACT COLOUR ON SITE.

25.6. ALL NEW AND RELOCATED LUMINAIRES TO BE INSTALLED IN OR ON THE BASE BUILDING CEILINGS MUST BE INDEPENDENTLY SUPPORTED FROM CEILING STRUCTURE WITH TENSO CHAINS UNLESS OTHERWISE NOTED.

25.7. UNLESS WRITTEN CONFIRMATION IS AVAILABLE, ATTESTING THAT THE CURRENT CEILING DESIGN AND CONSTRUCTION OF THE BASE BUILDING CAN ACCOMMODATE THE EXTRA LOAD OF THE BASE BUILDING LUMINAIRES, THE ELECTRICAL CONTRACTOR IS REQUIRED TO INSTALL ADDITIONAL SUPPORTS FOR ALL NEWLY INSTALLED BASE BUILDING LUMINAIRES AND FOR ANY EXISTING LUMINAIRES THAT ARE BEING MOVED. TROFFER FIXTURES ARE TO BE SUPPORTED BY TWO TENSO CHAINS FROM THE OVERHEAD STRUCTURE, WHILE EACH DOWNLIGHTS MUST HAVE A MINIMUM OF ONE TENSO CHAIN FOR SUPPORT. THE ASSOCIATED COSTS MUST BE INCLUDED IN THE TENDER PRICE.

25.8. EACH LUMINAIRE INSTALLED ON BRANCH CIRCUITS OPERATING ABOVE 150 VOLTS TO GROUND MUST INCLUDE AN INTEGRAL DISCONNECTING MEANS WITH THE CAPABILITY TO SIMULTANEOUSLY DEACTIVATE ALL CIRCUIT CONDUCTORS LINKING THE BRANCH CIRCUIT CONDUCTORS AND THE CONDUCTORS SUPPLYING THE BALLAST(S), AND MUST DISPLAY CLEAR, PERMANENT MARKINGS ADJACENT TO THE DISCONNECTING FEATURE, IDENTIFYING ITS SPECIFIC FUNCTION.

25.9. COORDINATE AND COLLABORATE WITH ALL OTHER TRADES TO ENSURE THE PROPER INSTALLATION OF ALL LUMINAIRES.

25.10. DURING OPERATION LIMITED TO EMERGENCY LIGHTING AT NIGHT, MEASURE THE 'AVERAGE' ILLUMINATION ON THE FLOOR (ESTABLISHING BOTH MAXIMUM AND MINIMUM LEVELS) ALONG THE PRIMARY PATHWAYS LEADING TO EXITS (PATHS OF EGRESS). DOCUMENT ALL LIGHTING RESULTS ON A PDF DRAWING FOR REVIEW BY THE CONSULTANT AND SUBMIT TO BUILDING INSPECTION AUTHORITIES.

25.11. BOTH BALLASTS AND LAMPS MUST BE OF THE SAME MANUFACTURER UNLESS OTHERWISE NOTED. ACCEPTABLE MANUFACTURERS FOR ALL LAMP TYPES IN THE SPECIFIED LUMINAIRES INCLUDE THE FOLLOWING UNLESS OTHERWISE NOTED:

- PHILIPS
- OSRAM SYLVANIA
- GENERAL ELECTRIC (GE LIGHTING)

SWITCHES:

25.12. PROVIDE SWITCHES THAT MATCH BASE BUILDING STANDARD, WHERE NO STANDARD EXISTS, PROVIDE SPECIFICATION GRADE LOCAL, 20A, 120 VOLT AND 347 VOLT SWITCHES, A.C. TYPE WITH MATCHING COVERPLATE FROM THE FOLLOWING MANUFACTURERS:

120V SWITCHES:

- P&S #2621 SERIES
- HUBBELL #HBL2121 SERIES
- LEVITON #5621-2 SERIES

347V SWITCHES:

- P&S #2601-347 SERIES
- LEVITON #5621-C-347 SERIES

25.13. PROVIDE OCCUPANCY SENSOR LIGHT SWITCHES THAT MATCH BASE BUILDING STANDARD, WHERE NO STANDARD EXISTS, PROVIDE THE FOLLOWING HUBBELL DUAL TECHNOLOGY WALL MOUNT OCCUPANCY SENSOR OR AN EQUIVALENT FROM WATTSSTOPPER, CRESTRON, OR NULIGHT SUITABLE FOR EITHER 120V OR 347V AS REQUIRED:

- LHMTS-1-WH

THE SENSOR MUST OPERATE WITH MANUAL "ON" FUNCTIONALITY, FEATURING AN AUTOMATIC "OFF" CAPABILITY AND INCLUDE FIELD-ADJUSTABLE VIEWING ANGLES AND ADAPTIVE TECHNOLOGY. INDIVIDUAL ADJUSTMENTS FOR TIME AND SENSOR SETTINGS MUST BE PROVIDED BASED ON THE CLIENT'S SPECIFIC REQUIREMENTS.

25.14. PROVIDE CEILING-MOUNTED OCCUPANCY SENSORS WITH ADAPTIVE TECHNOLOGY THAT MATCH BASE BUILDING STANDARD, WHERE NO STANDARD EXISTS, PROVIDE THE FOLLOWING HUBBELL DUAL TECHNOLOGY OCCUPANCY SENSOR OR AN EQUIVALENT APPROVED BY WATTSSTOPPER, CRESTRON, OR NULIGHT SUITABLE FOR EITHER 120V OR 347V AS REQUIRED:

- OMNI-DT

THESE SENSORS MUST BE PROVIDED WITH A POWER PACK AND ALL REQUIRED WIRING ACCESSORIES TO MAKE SYSTEM FUNCTIONAL. SENSORS MUST BE SUITABLE FOR AREAS RANGING FROM 500 TO 2000 SQUARE FEET AS NEEDED. CUSTOMIZED TIME AND SENSOR ADJUSTMENTS MUST BE MADE TO MEET THE CLIENT'S SPECIFIC REQUIREMENTS.

25.15. MASTER SWITCHES (LOW VOLTAGE AND OTHERWISE) AND BUILDING LIGHTING CONTROL SYSTEM SHALL HAVE THE CAPABILITY TO TURN ON AND OFF ALL LIGHTING (120V AND 347V) WITH THE EXCEPTION OF LUMINAIRES ON EMERGENCY LIGHTING CIRCUITS OR UNSWITCHED NIGHT LIGHT CIRCUITS.

ELECTRICAL SPECIFICATIONS

TRANSFORMERS:

- 26.6. ALL DRY TYPE TRANSFORMERS MUST COMPLY WITH CSA C22.2 NO. 47, CSA C9, AND CAN/CSA C802 STANDARDS, AS WELL AS ADHERE TO NRCAN 2019 AND ONTARIO GREEN ACT - ON REG.404.12. THESE TRANSFORMERS MUST BE OF THE SAME MANUFACTURER AS THE EXISTING BUILDING SYSTEM AND MUST HAVE A DESIGN K FACTOR OF 1.3 AND INCLUDE ELECTROSTATICALLY SHIELDED, COPPER WINDINGS. DOUBLE LUGS TO BE PROVIDED ON TRANSFORMER NEUTRALS TO FACILITATE CABLE CONNECTIONS. "T-TAP" TYPE TRANSFORMERS MUST NOT BE UTILIZED. TRANSFORMER IMPEDANCE MUST NOT SURPASS 6% AT 170 DEGREES CELSIUS. IN CASE BASE BUILDING STANDARD CANNOT BE MATCHED, ONE OF THE FOLLOWING MANUFACTURERS' TRANSFORMERS MUST BE FURNISHED:
 - SCHNEIDER
 - HAMMOND
 - DELTA
 - ACME HUBBELL
 - ATLAS
 - REX
 - STI

- 26.7. TRANSFORMERS TO BE CEILING MOUNTED UP TO 45 KVA UTILIZING SUSPENSION RODS AND SPRING ISOLATORS. TRANSFORMERS SIZED 60 KVA AND ABOVE ARE TO BE FLOOR MOUNTED USING KORFUND ISOLATION PADS, UNLESS OTHERWISE NOTED.

- 26.8. PROVIDE CONCRETE PADS FOR ALL FLOOR MOUNTED DISTRIBUTION EQUIPMENT INCLUDING TRANSFORMERS, PANELBOARDS, UPS MODULES ETC. CONCRETE PAD TO BE 4" (100mm) TALL, EXTENDING 2" (50mm) ON ALL SIDES WITH BEVELED EDGES. ALL CONCRETE WORK IS TO BE PART OF THIS DIVISION.

- 26.9. A 4" (100mm) HIGH CONCRETE BASE MUST BE PROVIDED AT ALL SLEEVE LOCATIONS AND WHEREVER CONDUITS PENETRATE THE FLOOR SLAB. THIS CONCRETE BASE SHOULD EXTEND 4" (100mm) BEYOND THE SLEEVE OR CONDUIT EDGE. ALL CONCRETE WORK IS TO BE PART OF THIS DIVISION.

JUNCTION AND PULL BOXES:

- 26.10. JUNCTION BOXES AND PULLBOXES TO BE OF WELDED STEEL SUITABLE FOR SURFACE MOUNTING, EQUIPPED WITH FLAT COVERS THAT ARE SECURED USING SCREWS.
- 26.11. FLUSH-MOUNTED PULL AND JUNCTION BOXES MUST HAVE COVERS THAT EXTEND A MINIMUM OF 1" (27mm) ON ALL SIDES.
- 26.12. ALL JUNCTION BOXES TO BE INSTALLED IN DISCREET AND ACCESSIBLE LOCATIONS.
- 26.13. INSTALL AT LEAST ONE (1) PULL BOX FOR EVERY 100' (30m) OF CONDUIT. EACH 90 DEGREE BEND IS TO BE CONSIDERED AS EQUIVALENT TO A 30' (9m) LENGTH OF CONDUIT. DO NOT PROVIDE MORE THAN TWO (2) 90 DEGREE BENDS BETWEEN ANY TWO ADJACENT PULL BOXES.

METERING:

- 26.14. PROVIDE DIGITAL METERS TO MATCH THE BASE BUILDING STANDARD UNLESS OTHERWISE NOTED. CARRY THE COSTS OF THE BASE BUILDING METERING CONTRACTOR FOR ALL METER INSTALLATIONS.
- 26.15. PROVIDE ALL REQUIRED POTENTIAL TRANSFORMERS (PT'S), CURRENT TRANSFORMERS (CT'S), REFERENCE VOLTAGES, BREAKERS, CONDUIT, WIRE AND ALL ANCILLARY DEVICES REQUIRED FOR A COMPLETE INSTALLATION AS PER THE MANUFACTURER'S RECOMMENDATIONS.

OUTLET BOXES:

- 26.16. OUTLET BOXES MUST BE MADE OF ELECTRO-GALVANIZED STEEL AND SIZED ACCORDING TO THE RELEVANT CODE.
- 26.17. EVERY LIGHT SWITCH, RECEPTACLE, COMMUNICATION PORT, AND OTHER SIMILAR OUTLET MUST HAVE AN ASSOCIATED OUTLET BOX. ENSURE PRECISE AND PLUMB INSTALLATION. DIMMING SWITCHES TO BE EQUIPPED WITH 3" (76mm) DEEP 1004 BOXES.
- 26.18. ADJUST ALL OUTLET BOXES TO SUIT THEIR SPECIFIC LOCATIONS AND PROVIDE INDEPENDENT SUPPORT, AVOIDING RELIANCE ON THE CONDUIT. AVOID USING CADDIE CLIPS WITH CEILING HANGERS.
- 26.19. SUPPLY BLANK COVER PLATES FOR BOXES THAT DO NOT CONTAIN ANY WIRING DEVICES.
- 26.20. AVOID INSTALLING OUTLET BOXES BACK TO BACK WITHIN PARTITIONS. IMPLEMENT AN ALTERNATING PATTERN TO MINIMIZE SOUND TRANSFER.
- 26.21. UTILIZE "TS" OR "TD" FERALOY BOXES FOR ALL SURFACE-MOUNTED DEVICES, INCLUDING FIRE ALARM, SECURITY, AND AUXILIARY SYSTEMS.
- 26.22. WHEN MULTIPLE OUTLET BOXES ARE IN CLOSE PROXIMITY, THEY MUST BE GROUPED TOGETHER UNDER THE SAME COVER PLATE UNLESS OTHERWISE NOTED.

BREAKERS AND FUSES:

- 26.23. ALL BREAKERS (NEW AND EXISTING) SERVING EXIT LIGHTS, EMERGENCY LIGHTING AND EMERGENCY BATTERY PACKS TO BE PROVIDED WITH BREAKER LOCKS.
- 26.24. PROVIDE 15A.1P GROUND FAULT INTERRUPTER (G.F.I.) BREAKER FOR ALL DUPLEX RECEPTACLES AND 15A.2P GROUND FAULT INTERRUPTER (G.F.I.) BREAKER FOR ALL SPLIT RECEPTACLES INSTALLED WITHIN 59" (1.5m) OF SINKS, SHOWERS, OR SIMILAR FIXTURES.
- 26.25. TANDEM BREAKERS MUST NOT BE UTILIZED.
- 26.26. FUSES PROTECTING MOTOR LOADS, ELEVATORS, AND TRANSFORMERS MUST BE TIME DELAY FUSES, ABLE TO HANDLE 500% OF THEIR RATED CURRENT FOR A MINIMUM OF 10 SECONDS. FUSES FOR UP TO AND INCLUDING 600 AMPS MUST BE CLASS J, WHILE RATINGS ABOVE 600 AMPS MUST BE CLASS L FUSES.
- 26.27. FUSES PROTECTING SERVICE ENTRANCE AND FEEDER CIRCUITS MUST BE FAST-ACTING. USE CLASS J FUSES FOR UP TO AND INCLUDING 600 AMPS, AND CLASS L FUSES FOR RATINGS ABOVE 600 AMPS.

FIRE ALARM AND VOICE COMMUNICATIONS SYSTEM:

INITIATING DEVICES:

- 27.1. FIRE ALARM PULL STATIONS, BELLS, SPEAKERS, STROBES AND ALL FIRE ALARM DEVICES TO MATCH BASE BUILDING STANDARDS. COORDINATE INSTALLATION WITH BASE BUILDING FIRE ALARM CONTRACTOR AND PROVIDE ALL COMPONENTS AND PARTS NECESSARY FOR THE INSTALLATION OF A COMPLETE SYSTEM.
- 27.2. FIRE ALARM PULL STATIONS MUST BE MOUNTED SO THAT THE CENTER OF THE DEVICE IS LOCATED AT 1200MM (47 INCHES) ABOVE THE FINISHED FLOOR, AND NO MORE THAN 600MM (23 INCHES) AWAY FROM THE DOOR LATCH. IN CASES WHERE FIRE ALARM PULL STATIONS ARE BEING REMOVED AND RELOCATED, IT IS IMPERATIVE TO ENSURE THEIR REINSTALLATION ADHERES STRICTLY TO THE AFOREMENTIONED DIMENSIONAL SPECIFICATIONS.
- 27.3. PROVIDE TIE-IN TO BASE BUILDING MAGLOCK RISER ON EACH FLOOR,

ENSURING THAT ALL MAGLOCKS AUTOMATICALLY RELEASE IN RESPONSE TO A FIRE ALARM. MAGLOCKS MUST RESET VIA A MAGLOCK KEYSWITCH OVERRIDE. COORDINATE WITH BASE BUILDING FIRE ALARM CONTRACTOR FOR PROPER INSTALLATION. PROVIDE ALL ESSENTIAL COMPONENTS TO ENSURE A COMPREHENSIVE AND COMPLETE INSTALLATION. IN CASES WHERE EXISTING MAGLOCK RELEASE/RESET RELAYS ARE LOCATED IN THE FIELD, THEY MUST BE REMOVED AND RELOCATED INTO THE NEAREST DGP PANEL. THE INSTALLATION PROCESS MUST INCLUDE THE EXTENSION OF NEW CONDUIT AND WIRING BACK TO THE MAGLOCK POWER SUPPLY.

- 27.4. ENSURE ALL SMOKE DAMPERS ARE LINKED TO THE CLOSEST AVAILABLE 120V LIFE SAFETY EMERGENCY CIRCUIT. THE DEVICE INTO THE FIRE ALARM SYSTEM, PROVIDE ALL NECESSARY END SWITCHES AND ACCESSORIES FOR EFFECTIVE MONITORING AND CONTROL. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN TO FACILITATE SMOOTH WORKFLOW.
- 27.5. PROVIDE THE ELECTRICAL CONSULTANT WITH A DRAWING OUTLINING AUDIBILITY RESULTS THROUGHOUT THE RENOVATED AREAS UPON COMPLETION OF FIRE ALARM AUDIBILITY TESTING. INCLUDE FOR A RE-VISIT TO SITE TO ALLOW FOR ADJUSTMENTS TO SPEAKER TAP SETTINGS AS DIRECTED BY THE CONSULTANT. INCORPORATE ANY RE-VERIFICATION COSTS WITHIN THE TENDER. INCLUDE ALL SPEAKER TAP SETTINGS ON RECORD DRAWINGS.

LINE CIRCUIT SYSTEM CONNECTIONS:

- 27.6. SYSTEM CONNECTIONS FOR INITIATING AND SIGNALING LINE CIRCUITS MUST BE CLASS "A," AND SIMILARLY, CLASS "A" CONFIGURATION IS MANDATORY FOR NOTIFICATION APPLIANCE CIRCUITS. A NOTIFICATION APPLIANCE CIRCUIT IS A CIRCUIT THAT CARRIES POWER FROM THE CONTROL PANEL TO THE DEVICES THAT WARN PEOPLE OF DANGER: HORNS, STROBES, BELLS, SPEAKERS, CHIMES ETC.

CIRCUIT SUPERVISION AND INDICATION:

- 27.7. CIRCUIT FAULTS MUST BE INDICATED THROUGH A TROUBLE SIGNAL AT THE FIRE ALARM CONTROL PANEL (FACP). THIS INDICATION SHOULD INCLUDE A DISTINCTIVE AUDIBLE TONE AND ALPHANUMERIC ANNUNCIATION.

VISUAL DEVICE COMPATIBILITY:

- 27.8. ENSURE COMPATIBILITY OF VISUAL DEVICES WITH THE EXISTING FIRE ALARM SYSTEM. PROVIDE ALL ASSOCIATED DRIVERS, POWER SUPPLIES, CONDUIT, WIRING, AND ACCESSORIES TO ENSURE A FULLY OPERATIONAL SYSTEM.

STROBE SPECIFICATIONS:

- 27.9. ALL STROBES MUST BE LISTED TO ULC-S526 AND SUITED FOR OPERATION WITH THE EXISTING FIRE ALARM SYSTEM. THE VISIBLE/ONLY (V/O) COMPONENT SHOULD COMPRISE OF A XENON FLASH TUBE AND ASSOCIATED LENS/REFLECTOR SYSTEM. THE V/O ENCLOSURE MUST MOUNT DIRECTLY TO STANDARD SINGLE GANG, DOUBLE GANG, OR 4" SQUARE ELECTRICAL BOXES, WITHOUT THE USE OF SPECIAL ADAPTERS OR TRIM RINGS. THE V/O APPLIANCES MUST BE PROVIDED WITH DIFFERENT MINIMUM ADJUSTABLE FLASH INTENSITIES OF 15CD, 30CD, 75CD, AND 110CD. PROVIDE A LABEL INSIDE THE STROBE LENS INDICATING THE LISTED CANDELA RATING OF THE SPECIFIC V/O DEVICE. FOR LOCATIONS WHERE MULTIPLE STROBES AND REFLECTIONS ARE VISIBLE, PROVIDE STROBE FLASH SYNCHRONIZATION, QUANTITY, SPACING, AND CANDELA DESIGN OF VISUAL SIGNALS MUST COMPLY WITH THE CAN/ULC S524 STANDARD FOR FIRE ALARM SYSTEM INSTALLATIONS, SECTION 5.4.

SYSTEM COMMISSIONING:

- 27.10. AN INDEPENDENT THIRD PARTY FIRE ALARM VERIFICATION IS TO BE CONDUCTED UPON THE INSTALLATION OF THE FIRE ALARM SYSTEM AND IN CONJUNCTION WITH THE FIRE ALARM MANUFACTURERS VERIFICATION AS PER CAN/ULC-S537. SEPARATE FIRE ALARM VERIFICATION REPORTS TO BE SUBMITTED TO THE COMMISSIONING AGENT AND THE ELECTRICAL ENGINEER FOR REVIEW AND APPROVAL. SUBMIT CERTIFICATE OF VERIFICATION OF FIRE ALARM SYSTEM TO LANDLORD ONCE APPROVED AND INCLUDE A COPY IN THE MAINTENANCE MANUAL.
- 27.11. MEASURE THE DECIBEL LEVEL (dBA) AND INTELLIGIBILITY LEVEL (CIS) PRIOR TO THE INSPECTION BY AUTHORITIES HAVING JURISDICTION (AHJ), AND ENSURE READINGS COMPLY WITH LATEST OBC STANDARDS. AUDIBILITY TESTING SHALL OCCUR AFTER ALL CEILINGS, WALLS AND FLOOR FINISHES ARE SUBSTANTIALLY COMPLETE AND REFLECTIVE OF THE FINAL ACOUSTICAL CONDITION. PLOT ALL READINGS IN CAD AND PDF DRAWING FOR REVIEW BY THE CONSULTANT. SUBMIT RESULTS TO THE AHJ IF REQUIRED.
- 27.12. PROVIDE INDEPENDENT 3RD PARTY VERIFICATION AND COMMISSIONING OF ALL LIFE SAFETY SYSTEMS INCLUDING EXIT LIGHTING, EMERGENCY LIGHTING AND OTHER LIFE SAFETY SYSTEMS. SUBMIT SEPARATE REPORTS TO THE CONSULTANT AND COMMISSIONING AGENT FOR REVIEW. INCLUDE COPY OF THE REPORT IN THE OPERATIONS AND MAINTENANCE MANUAL.

COMMUNICATION CABLING RACEWAY SYSTEM:

- 28.1. PROVIDE EMPTY RACEWAY SYSTEM INCLUDING BUT NOT LIMITED TO FISH WIRES, OUTLET BOXES, PULL BOXES, COVER PLATES, CONDUITS, SERVICE POLES AND ALL MISCELLANEOUS ITEMS REQUIRED TO MAKE A COMPLETE SYSTEM.
- 28.2. VERIFY LOCATIONS OF OUTLETS WITH CONSULTANT TO SUIT FURNITURE LAYOUT.
- 28.3. FISH CONDUITS, CLEAR BLOCKAGES AND CLEAN OUT PULL BOXES AT COMPLETION OF INSTALLATION. ENSURE CONDUITS ARE FREE OF WATER AND MOISTURE AND INSTALL PULL CORD CONTINUOUSLY FROM OUTLET TO OUTLET THROUGH CONDUITS AND FASTEN AT EACH BOX.
- 28.4. ENSURE CONDUIT BENDS HAVE BENDING RADIUS OF NOT LESS THAN TEN (10) TIMES THE CONDUIT DIAMETER. REAM OUT CONDUITS AND IDENTIFY END WITH GREEN PAINT.
- 28.5. PROVIDE STEEL PULL BOXES SUCH THAT WITHIN THE ENTIRE SYSTEM, THERE IS NOT MORE THAN TWO (2) 90 DEGREE BENDS OR MORE THAN 100 FEET IN EACH RUN, SUCH THAT WIRES AND CABLES CAN BE PULLED WITH REASONABLE EASE. PULL BOXES MUST NOT BE USED AS 90 DEGREE BENDS.

SEALING AND FIRE PROTECTION:

- 29.1. MAINTAIN INTEGRITY OF FIRE RATING AROUND ELECTRICAL CONDUITS, RACEWAYS AND CABLES PASSING THROUGH FIRE RATED PARTITIONS, WALLS AND FLOORS BY PROVIDING FIRE SEALED PENETRATIONS.
- 29.2. ALL MATERIALS USED TO MAINTAIN FIRE RATING MUST BE CAN/ULC RATED AND MUST HAVE A MINIMUM FIRE RATING OF TWO (2) HOURS.
- 29.3. WHERE WIRING IS SET TO PENETRATE A FIRE RATED ASSEMBLY IT MUST BE ENCLOSED IN NON-COMBUSTIBLE CONDUIT. ENSURE CONDUIT PATH IS SEALED AND FIRE RATED IN A WAY THAT MAINTAINS THE FIRE RATING OF THE SURFACE BEING PENETRATED.
- 29.4. WHERE SINGLE CONDUCTOR METAL SHEATHED CABLES ARE USED TO PENETRATE A FIRE RATED ASSEMBLY, ENSURE CABLES ARE ARRANGED TO INDIVIDUALLY PENETRATE THE FIRE RATED ASSEMBLY AND ARE INDIVIDUALLY FIRE STOPPED.
- 29.5. WHERE WIRING IS INSTALLED IN CABLE TRAYS AND MUST PENETRATE A

FIRE RATED ASSEMBLY, STOP AND INDEPENDENTLY SUPPORT THE CABLE TRAY IMMEDIATELY ON EACH SIDE OF THE FIRE RATED ASSEMBLY WHILE ALLOWING SUFFICIENT WORKING ROOM TO PROPERLY INSTALL AND INSPECT THE FIRE RATED MATERIALS AND PENETRATION.

LUMINAIRES:

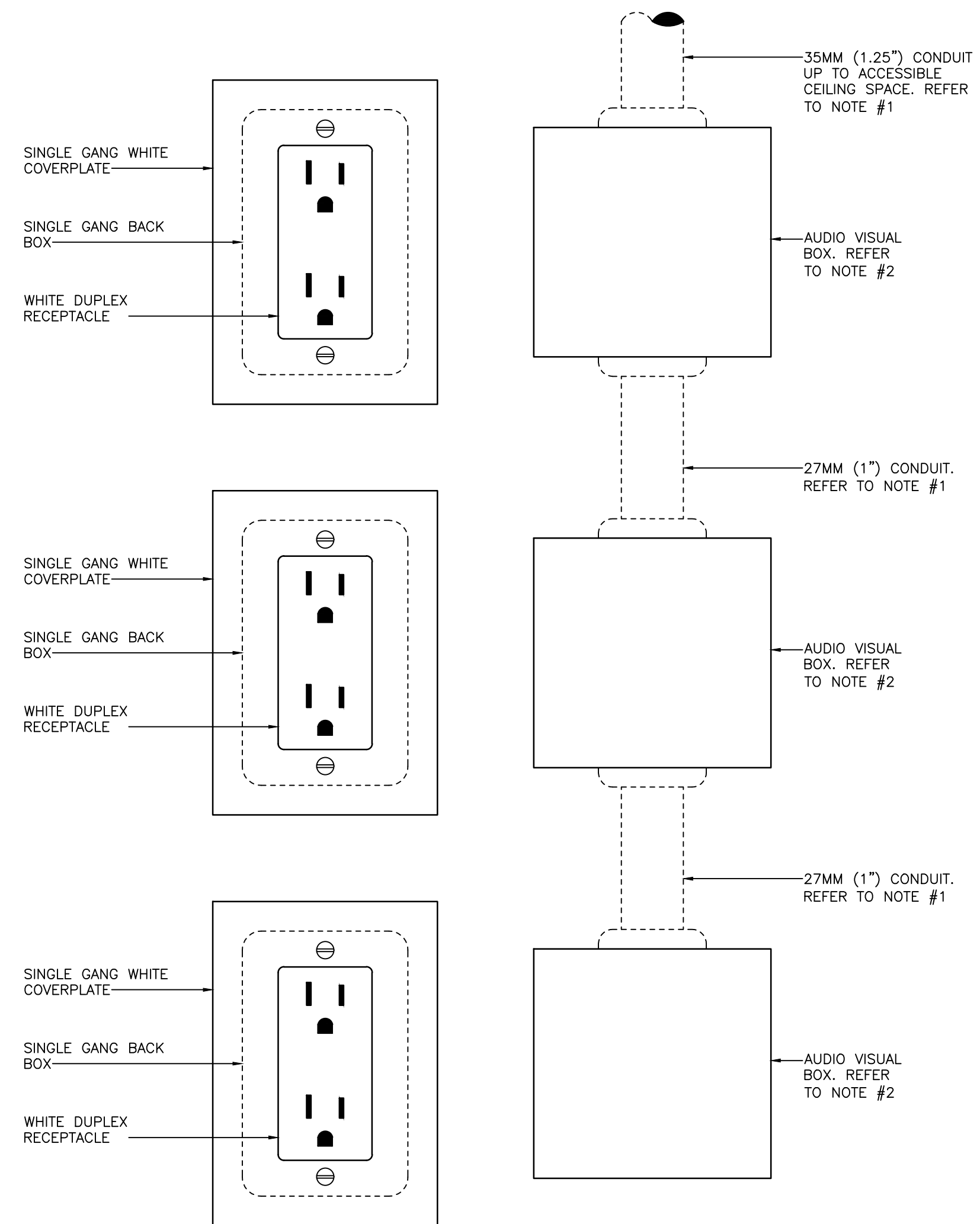
- 30.1. SUPPLY AND INSTALL ALL LUMINAIRES COMPLETE WITH LAMPS, MOUNTING BRACKETS, BALLASTS, DRIVERS AND ALL NECESSARY EQUIPMENT TO MAKE LUMINAIRES FUNCTION PROPERLY.
- 30.2. SUPPLY AND INSTALL ALL LIGHTING CONTROL SWITCHES, MODULES, DIMMER SWITCHES (ELV, 0-10V ETC.), LIGHTING RELAYS AND ALL DEVICES, WIRING AND COMPONENTS REQUIRED TO MAKE LIGHTING SYSTEM OPERATIONAL AS PER CODE AND AS PER MANUFACTURERS RECOMMENDATIONS.

MECHANICAL EQUIPMENT WIRING:

- 31.1. ALL STARTERS AND CONTROL WIRING TO BE PROVIDED BY MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED. ELECTRICAL CONTRACTOR TO RECEIVE, INSTALL STARTERS AND PROVIDE ALL LINE SIDE AND LOAD SIDE POWER WIRING ALONG WITH ALL REQUIRED ISOLATION DISCONNECT SWITCHES.
- 31.2. ELECTRICAL REQUIREMENTS AND EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT TO BE CONFIRMED WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.

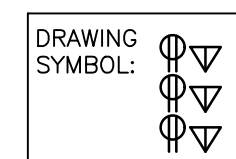
INSPECTIONS:

- 32.6. ELECTRICAL CONTRACTOR SHALL ARRANGE FOR AN ESA INSPECTION OF THE COMPLETED WORK ON BEHALF OF THE CLIENT, AS WELL AS PERFORM ALL NECESSARY REQUIREMENTS FROM ESA AND THE CITY TO MAKE SURE WORK IS DONE UP TO CODE. ELECTRICAL CONTRACTOR TO CONTACT RELIABLE ENGINEERING INC. BEFORE WALLS AND CEILINGS ARE CLOSED.
- 32.7. A FINAL INSPECTION IS IMPERATIVE. CONTACT RELIABLE ENGINEERING INC. AND THE LANDLORD'S REPRESENTATIVE PRIOR TO CEILING CLOSING TO PERFORM A FINAL INSPECTION. WHEN CEILING TILES HAVE BEEN INSTALLED IT WILL BE THE CONTRACTORS RESPONSIBILITY TO REMOVE PORTIONS OF THE CEILING FOR THE INSPECTION. ELECTRICAL CONTRACTOR TO CONTACT RELIABLE ENGINEERING INC. BEFORE WALLS AND CEILINGS ARE CLOSED.

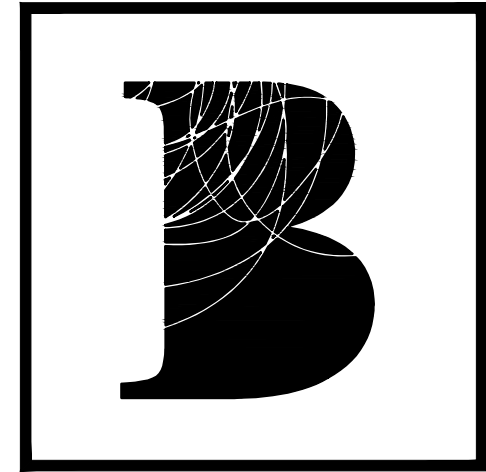


NOTES:

1. PROVIDE INSULATED THROAT BUSHING AT END OF CONDUIT. PROVIDE PULL STRINGS IN ALL EMPTY CONDUIT.
2. PROVIDE 4" SQUARE DEEP BOX FOR AUDIO VISUAL OUTLETS COMPLETE WITH PLASTER RING AND INSULATED BUSHING AT END OF CONDUIT. AUDIO VISUAL CONTRACTOR TO SUPPLY AND INSTALL AUDIO VISUAL COVER PLATE, MOUNTING PLATES AND JACKS.

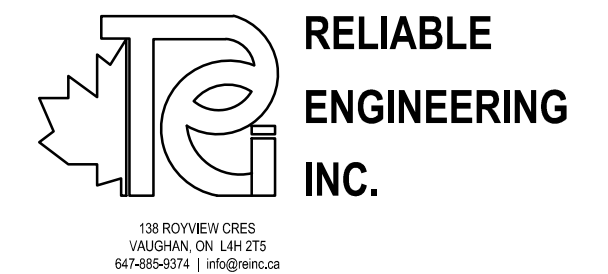


1 TYPICAL POWER AND AUDIO VISUAL COMBINATION OUTLET
E003 SCALE: NTS



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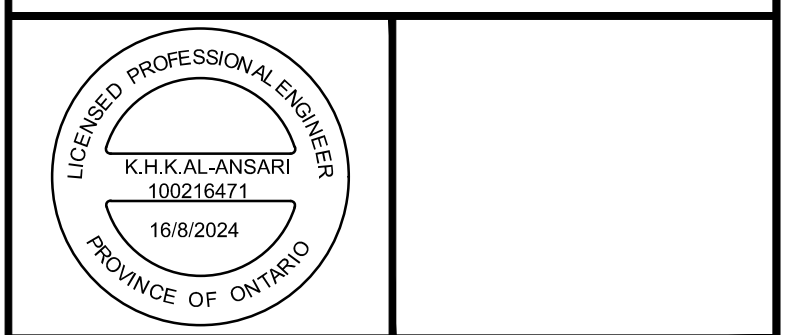
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REVISIONS

03	16AUG24	AA	ISSUED FOR TENDER
02	12AUG24	AA	ISSUED FOR PERMIT
01	8AUG24	AA	ISSUED FOR 90% REVIEW

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ISSUED



project title
MPAC
 1340 PICKERING PKWY
 10TH FLOOR
 PICKERING, ON

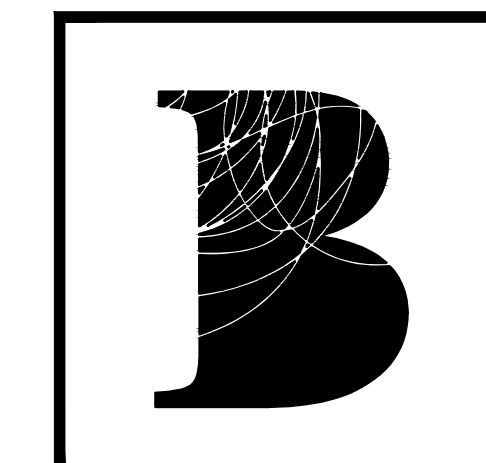
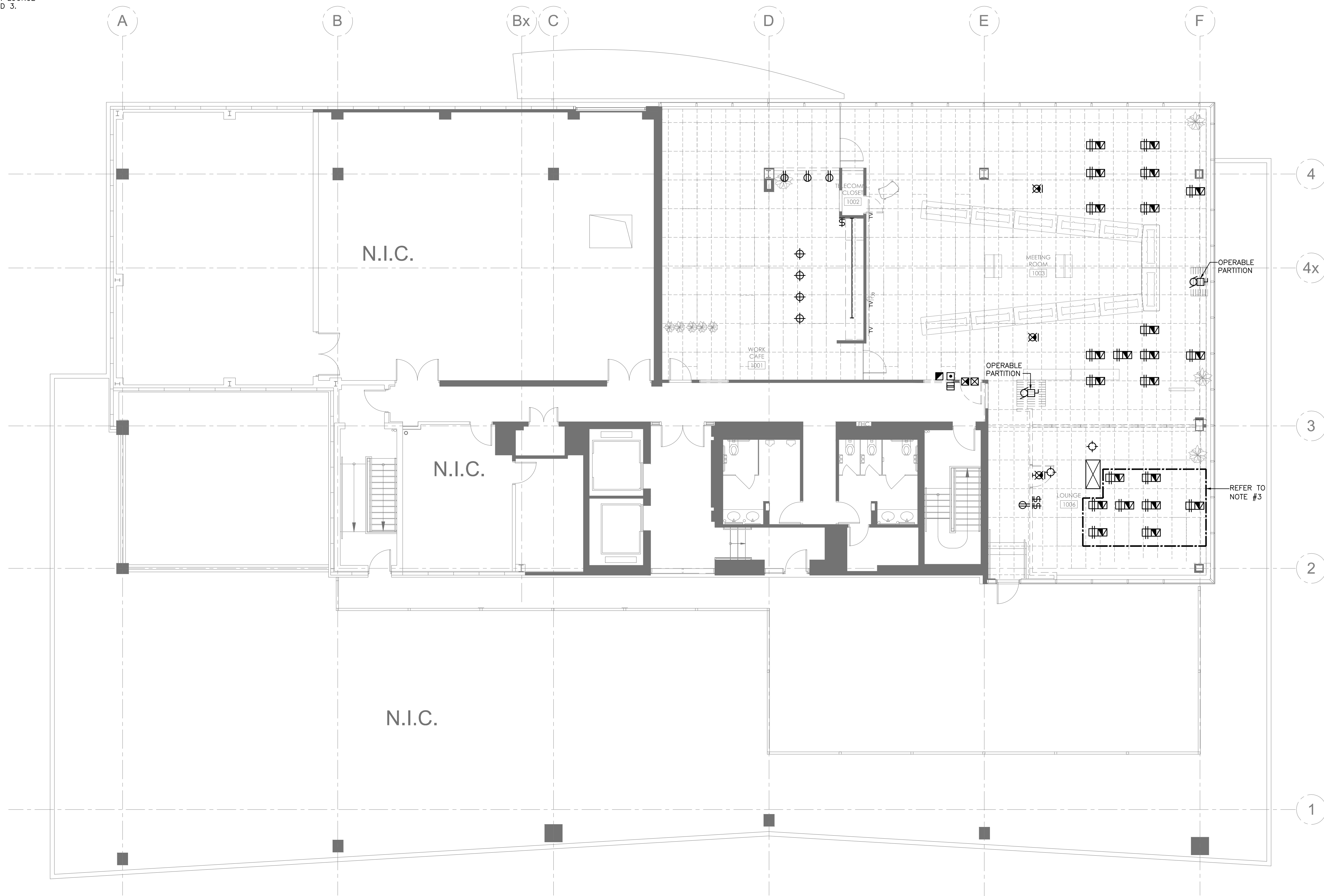
drawing title

ELECTRICAL SPECIFICATIONS

date	16AUG2024	project no.	2411
drawn by	AA	code lib.	2411-E003
checked by	KA	drawing no.	E003
scale	N.T.S.		

NOTES:

1. RETURN BASE BUILDING LIGHT FIXTURES LANDLORD.
2. PROVIDE SEPARATE PRICE (SP-01) FOR THE DEMOLITION OF FLOOR BOXES IN LOUNGE 1006 BETWEEN GRID LINES 2 AND 3.



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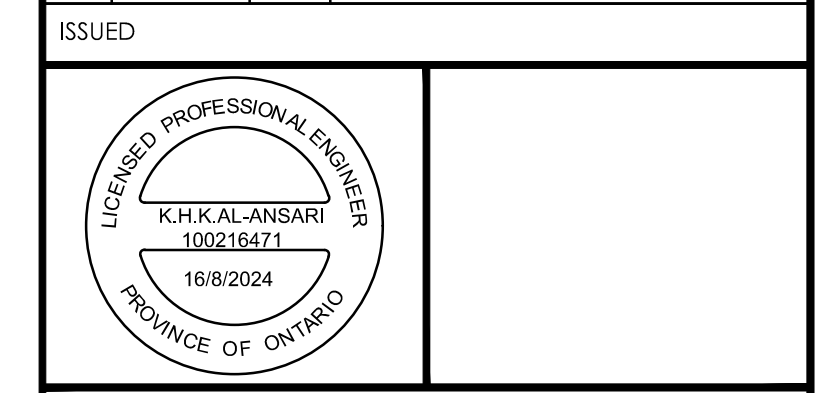
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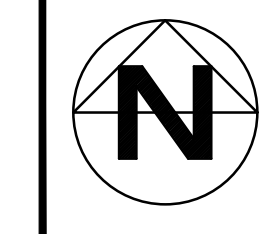
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02	12AUG24	AA	ISSUED FOR PERMIT
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Project title
MPAC
 1340 PICKERING PKWY
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 PICKERING, ON

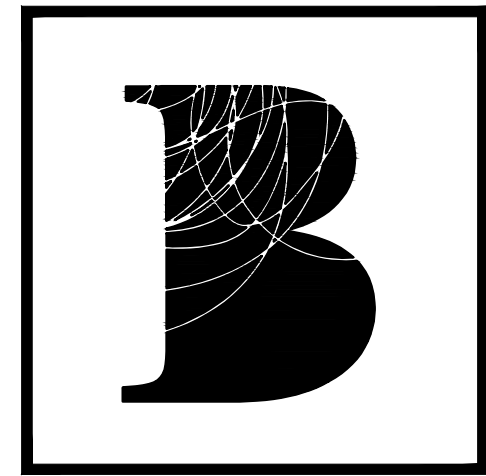
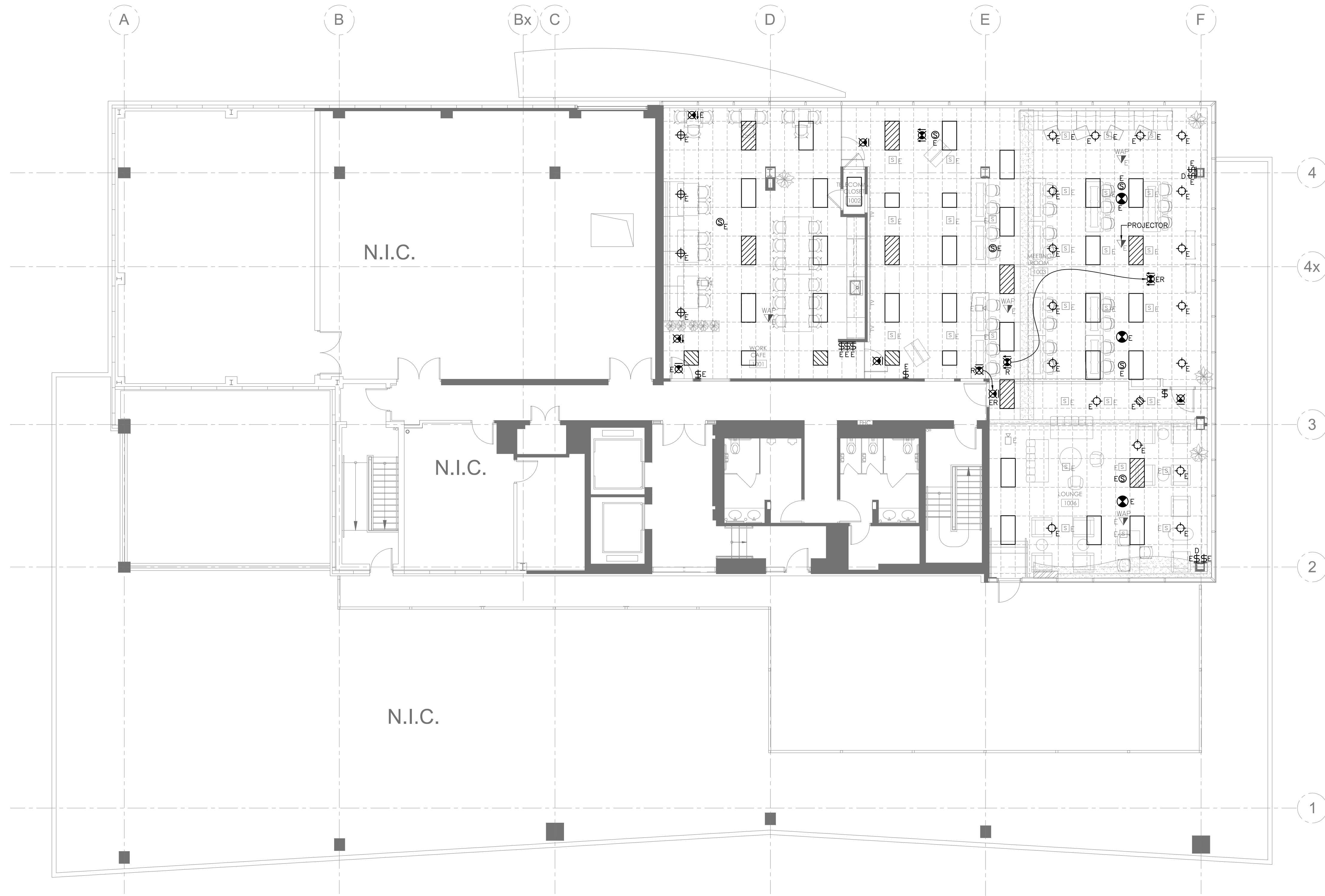
Drawing title
**10TH FLOOR
 DEMOLITION PLAN**

date	16AUG2024	project no.	2411
drawn by	AA	cod file	2411-E110
checked by	KA	drawing no.	E110
scale	1/8" = 1' - 0"		



NOTES:

- EMERGENCY LIGHTING LAYOUT IS NEW. CONNECT FIXTURES TO NEAREST EMERGENCY LIGHTING CIRCUIT. PROVIDE ADDITIONAL CIRCUITS ARE REQUIRED.



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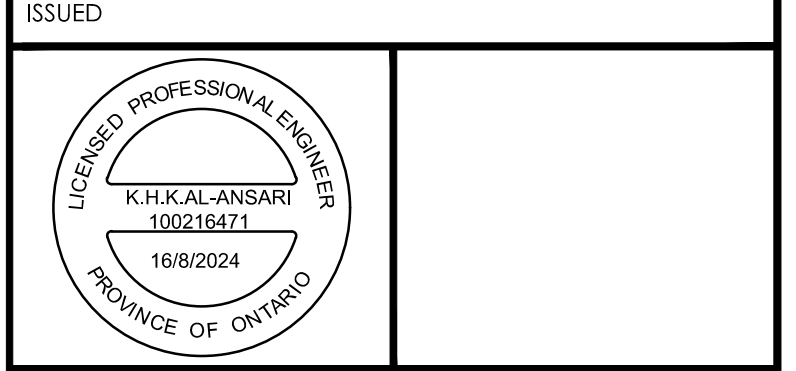
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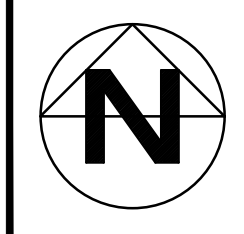
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02	12AUG24	AA	ISSUED FOR PERMIT
01	8AUG24	AA	ISSUED FOR 90% REVIEW



project title
MPAC
 1340 PICKERING PKWY
 10TH FLOOR
 PICKERING, ON

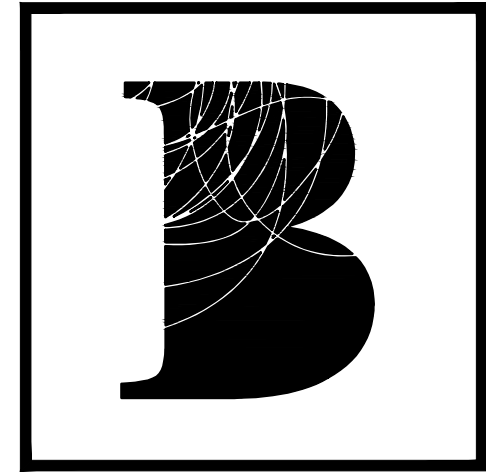
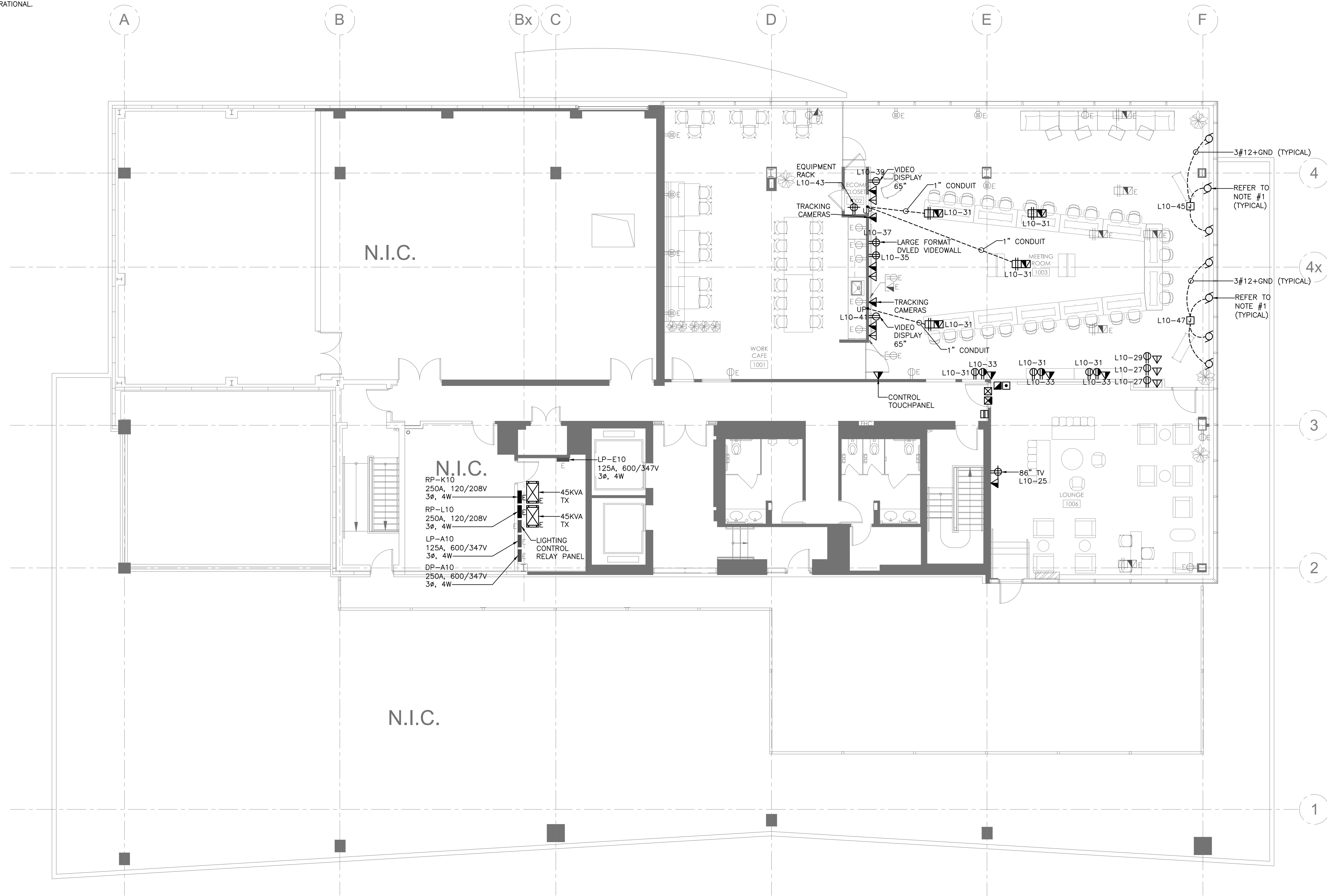
drawing title
**10TH FLOOR
 DEMOLITION PLAN**

date	16AUG2024	project no.	2411
drawn by	AA	cad file	2411-E210
checked by	KA	drawing no.	E210
scale	1/8" = 1' - 0"		



NOTES:

- MOTORIZED BLINDS TO BE SUPPLIED BY SOLARFACTIVE OR APPROVED EQUAL. COORDINATE EXACT POWER, WIRING AND CONTROL WIRING WITH SOLARFACTIVE. INCLUDE FOR ALL TIE INS, WIRING AND ANCILLARY DEVICES TO MAKE SYSTEM OPERATIONAL.



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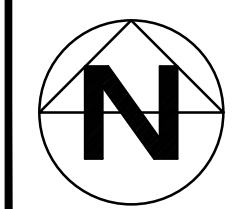
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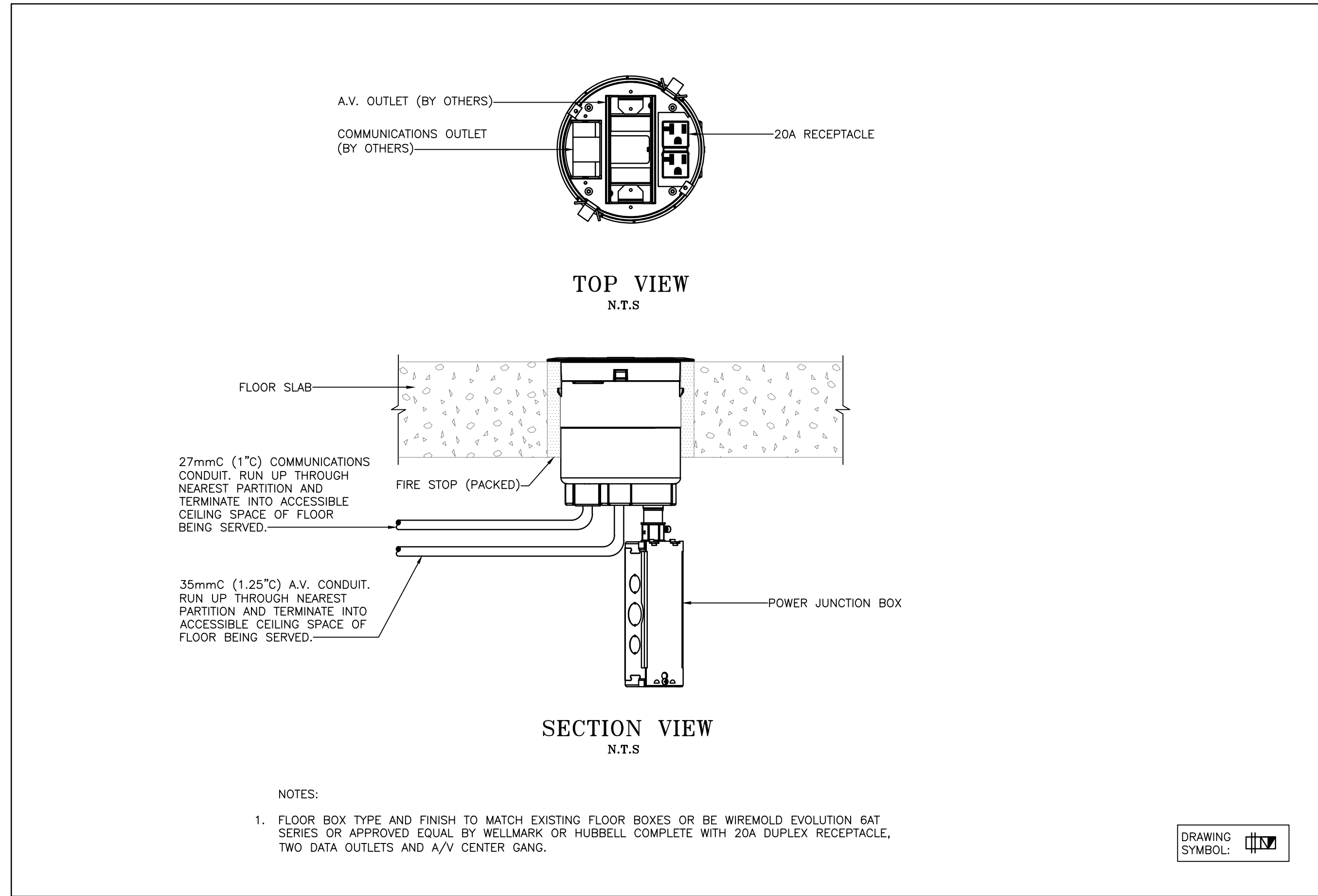


Project title
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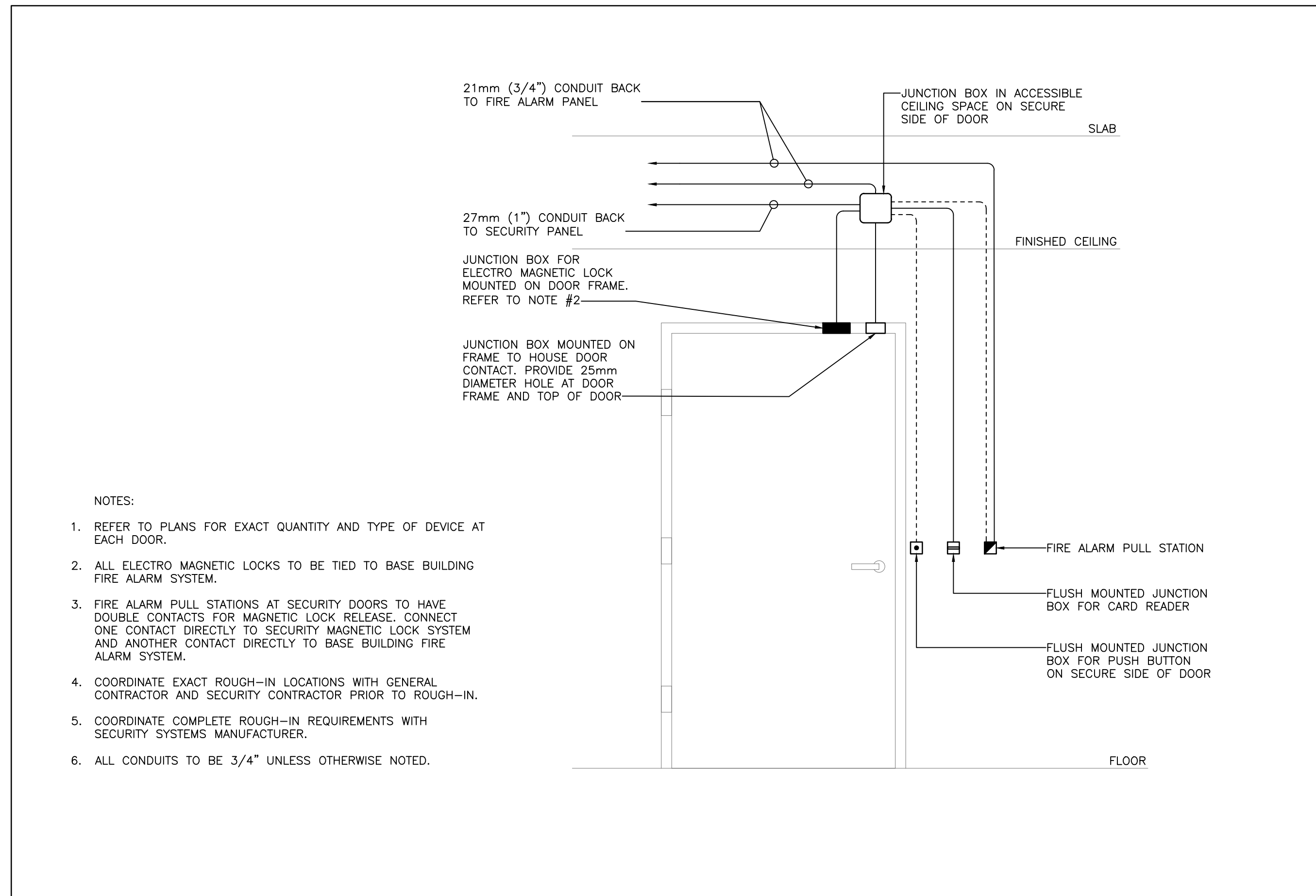
Drawing title
10TH FLOOR POWER & SYSTEMS PLAN

date	16AUG2024	project no.	2411
drawn by	AA	cod file:	2411-E310
checked by	KA	drawing no.	E310
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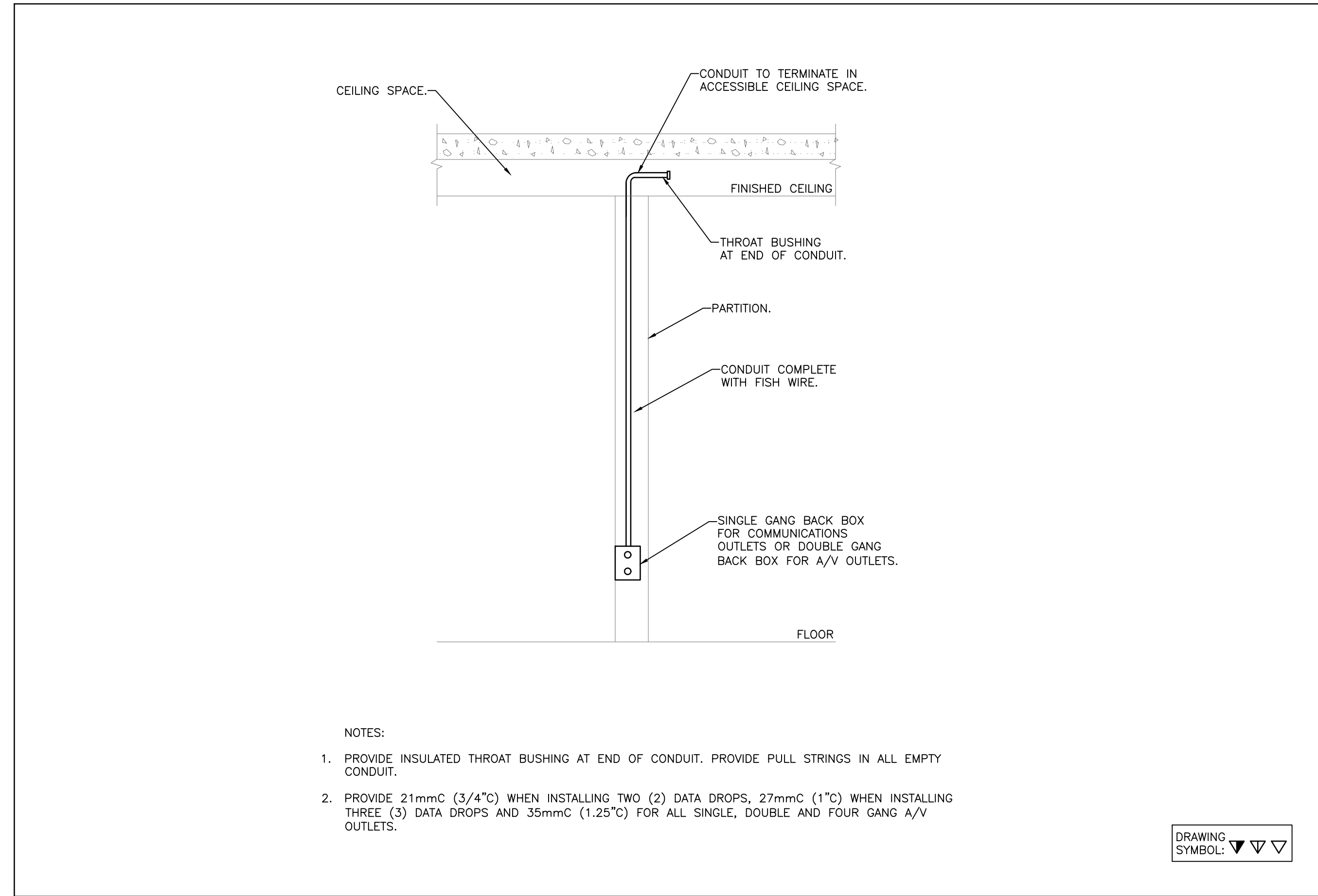




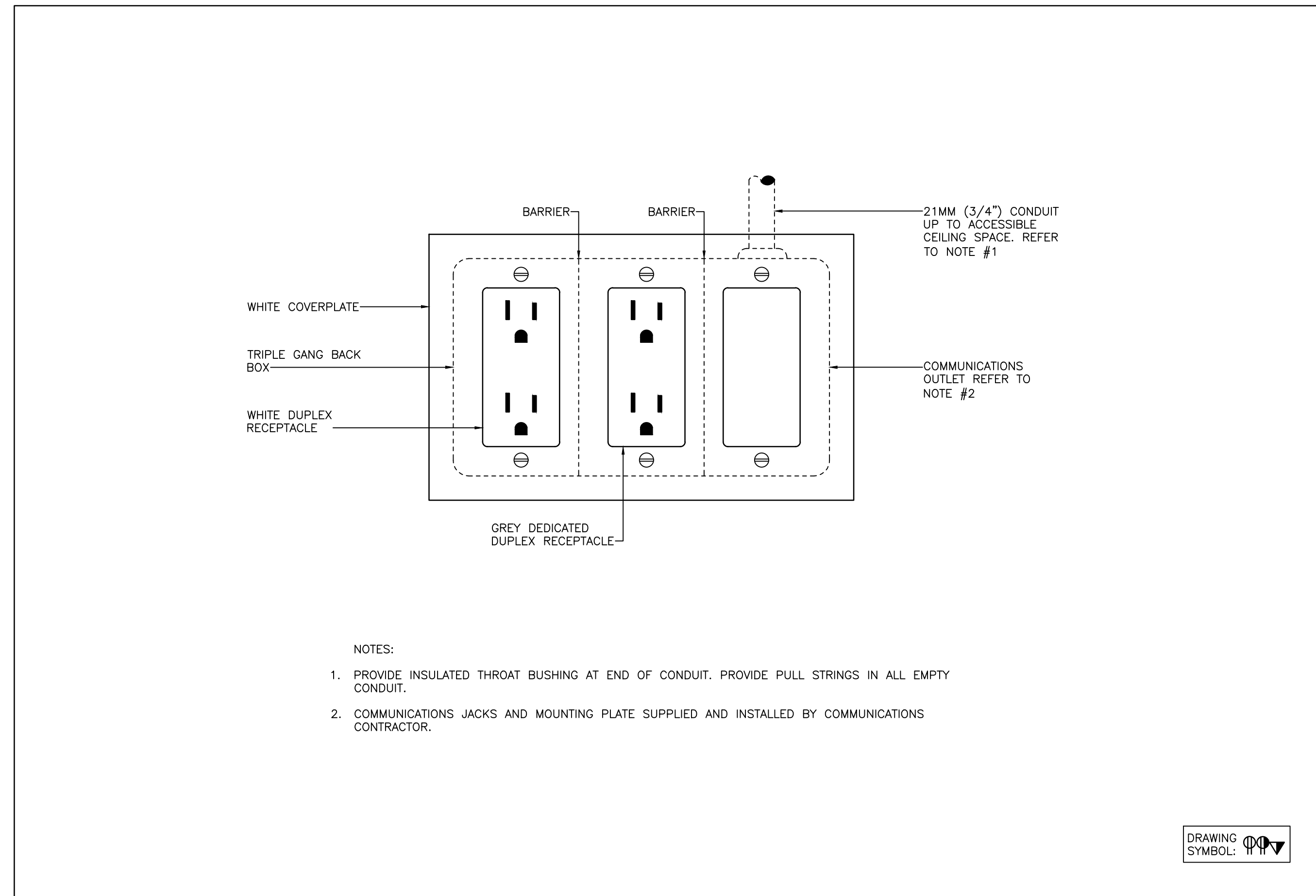
4 FLUSH MOUNTED 6" POKE THROUGH FLOOR BOX DETAIL
E601 SCALE: NTS



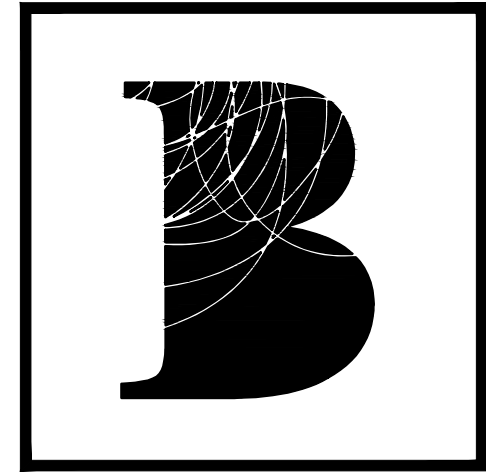
3 SINGLE DOOR MAGNETIC LOCK DETAIL
E601 SCALE: NTS



2 TYPICAL COMMUNICATIONS OUTLET DETAIL
E601 SCALE: NTS



1 TYPICAL POWER AND COMMUNICATIONS COMBINATION OUTLET
E601 SCALE: NTS



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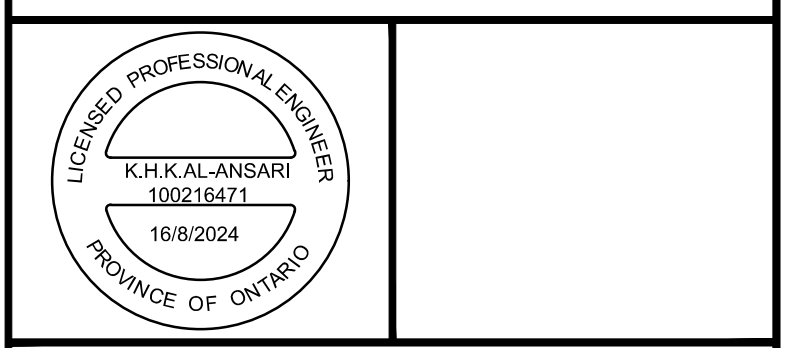
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Drawing title
ELECTRICAL DETAILS

date	16AUG2024	project no.	Z411
drawn by	AA	cod lib:	2411-E601
checked by	KA	drawing no.	E601
scale	N.T.S.		