



DRAWING LIST

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WATERLOO REGIONAL DISTRICT SCHOOL BOARD JACOB HESPELER SS HEAT PUMP REPLACEMENT

355 Holiday Inn Dr, Cambridge, ON N3C 1Z2

2021-0807-12

2024.02.28 ISSUED FOR BID AND PERMIT

ABBREVIATIONS

ACT	ACOUSTIC CEILING TILE	LAB	LABORATORY
AFF	ABOVE FINISHED FLOOR	LAM	LAMINATE
ALT	ALTERNATE	LAV	LAVATORY
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	LED	LIGHT EMITTING DIODE
AC	AIR CONDITIONING	M	MEN'S
ALUM	ALUMINUM	m	METERS
ARCH	ARCHITECTURAL	MAS	MASONRY
ASPH	ASPHALT	MAX	MAXIMUM
BD	BOARD	MECH	MECHANICAL
BLK	BLOCK	MET	METAL
BM	BEAM	MEZZ	MEZZANINE
BRK	BRICK	MFR	MANUFACTURER
BLDG	BUILDING	MIN	MINIMUM
BLKG	BLOCKING	MIR	MIRROR
BOT	BOTTOM	MIRH	MIRROR HANDICAPPED
BRKT	BRACKET	MISC	MISCELLANEOUS
CB	CATCH BASIN	mm	MILIMETER
CEM	CEMENT	MO	MASONRY OPENING
CER	CERAMIC	MPH	MOP HOLDER
CFM	CUBIC FEET PER MINUTE	N	NORTH
CG	CORNER GUARD	ND	NAPKIN DISPOSAL
CH	COAT HOOK	NIC	NOT IN CONTRACT
CHH	COAT HOOK HANDICAPPED	No.	NUMBER
CJ	CONTROL JOINT	NOM	NOMINAL
Cm	CENTIMETER	NTS	NOT TO SCALE
CONC	CONCRETE	OA	OVERALL
CORR	CORRIDOR	OBC	ONTARIO BUILDING CODE
CR	CARD READER	OC	ON CENTRE
CT	CERAMIC TILE	OD	OUTSIDE DIAMETER
CW	COLD WATER	O/H	OVERHEAD
CL	CENTRE LINE	OH	OPPOSITE HAND
COL	COLUMN	OPNG	OPENING
CONT	CONTINUOUS	OPP	OPPOSITE
CPT	CARPET	OWSJ	OPEN WEB STEEL JOIST
CTR	CENTRE	PTN	PARTITION
C/W	COMPLETE WITH	PCONC	PRECAST CONCRETE
DBL	DOUBLE	PG	PIPE GUARD
DET	DETAIL	PL	PLATE
DIA	DIAMETER	PLAM	PLASTIC LAMINATE
DIM	DIMENSION	PLEXI	PLEXIGLASS
DO	DITTO	PLYWD	PLYWOOD
DR	DOOR	PNT	PAINT
DS	DOWNSPOUT	POL	POLISHED
DWG	DRAWING	PR	PAIR
E	EAST	PSF	POUNDS PER SQUARE FOOT
EA	EACH	PSI	POUNDS PER SQUARE INCH
ELEV	ELEVATION	PT	POINT
ELEC	ELECTRIC(AL)	PVC	POLYVINYL CHLORIDE
ENCL	ENCLOSURE	QT	QUARRY TILE
ENG	ENGINEER	R	RADIUS
ENT	ENTRANCE	RCP	REFLECTED CEILING PLAN
EQ	EQUAL	RD	ROOF DRAIN REINFORCE
EXP	EXPOSED	REQ'D	REQUIRED
EXPAN JT	EXPANSION JOINT	RESIL	RESILIENT
EXT	EXTERIOR	REV	REVISION
FA	FIRE ALARM	RM	ROOM
FAS	FIRE ALARM STATION	RO	ROUGH OPENING
FD	FLOOR DRAIN	RWL	RAIN WATER LEADER
FDN	FOUNDATION	S	SOUTH
FE	FIRE EXTINGUISHER	SCH	SCHEDULE
FEC	FIRE EXTINGUISHER CABINET	SD	SOAP DISPENSER
FF	FINISH FLOOR	SEAL	SEALANT
FFD	FUNNEL FLOOR DRAIN	SECT	SECTION
FH	FIRE HYDRANT	SF	SQUARE FEET
FHC	FIRE HOSE CABINET	SHT	SHEET
FHV	FIRE HOSE VALVE	SIM	SIMILAR
FIN	FINISHED	SN	STAIR NOSING
FLUOR	FLUORESCENT	SP	STANDPIPE
FT	FOOT or FEET	SPEC	SPECIFICATION
FTG	FOOTING	SQ	SQUARE
FURR	FURRING	S.S.	STAINLESS STEEL
FVC	FIRE VALVE CABINET	STD	STANDARD
GA	GAUGE	STL	STEEL
GAL	GALVANIZED	STRUCT	STRUCTURAL
GB	GRAB BAR	SYM	SYMMETRICAL
GEN	GENERATOR	TB	TACK BOARD
GF	GROUND FLOOR	TD	TRENCH DRAIN
GL	GLASS	TEL	TELEPHONE
GR	GRADE	T & G	TONGUE & GROOVE
GRAN A	GRANULAR A	THK	THICK
GRAN B	GRANULAR B	THR	TRESHOLD
GWB	GYPSUM WALL BOARD	T.O.	TOP OF
HB	HOSE BIBB	TYP	TYPICAL
HC	HANDICAPPED	U/C	UNDERCUT
HM	HOLLOW METAL	U/G	UNDERGROUND
HORIZ	HORIZONTAL	UL	UNDERWRITER LABORATORY
HP	HYDRO POLE	UNFIN	UNFINISHED
HR	HOUR	UON	UNLESS OTHERWISE NOTED
HT	HEIGHT	U/S	UNDERSIDE
HW	HOT WATER	UTIL	UTILITY
ID	INSIDE DIAMETER	VCT	VINYL COMPOSITION TILE
INCAN	INCANDESCENT	VEST	VESTIBULE
INSUL	INSULATION or INSULATED	W	WEST
INV	INVERT	WC	WATER CLOSET
JAN	JANITOR'S CLOSET	WD	WOOD
JT	JOINT	WHTR	WATER HEATER
JST	JOIST	WP	WATERPROOF(ING)
KD	KNOCK DOWN	WR	WASHROOM
		WS	WEATHERSTRIPPING
		WT	WEIGHT

General Annotations

Building Section Tag

Wall Section Tag

Callout Tag

Exterior Elevation Tag

Interior Elevation Tag

Grid Marker

Revision

North Arrow

Level Marker

View Title

Room Tags

ROOM NAME (0000) Name & Number	ROOM NAME (0000) Name, Number & Primary Area
ROOM NAME (0000) Name, Number & Primary and Secondary Areas	ROOM NAME (0000) Room Number
ROOM NAME (0000) Number & Primary Area	ROOM NAME (0000) Number & Primary and Secondary Areas
ID Finish Tag (xxx)	Number & Interior Design Finishes (0000) (0000) (0000) (0000) (0000) (0000)

Family Tags

Wall Tag WX-0x	Equipment & Furniture Tag 000
Material Tag ?	Drawing Note Symbol 00
Door Tag 0000	Multi-Leader TEXT

Curtain Wall, Window, Louver & Screen Tag

Drawing Note Tags	Roof Tag R-00
Floor Tag F-00	

Ceiling/Soffit Tags

w/ ceiling/soffit height	w/o ceiling/soffit height	only ceiling/soffit height
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Building Entry Symbols - Site Planning

Building Entrance (Primary)	Building Entrance (Secondary)	Barrier Free (Primary)	Barrier Free (Secondary)	Overhead Door (Optional)
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GENERAL NOTES:

- ALL WALLS TO EXTEND TO UIS STRUCTURAL DECK UNLESS OTHERWISE NOTED.
 - ASSEMBLY CONSTRUCTION READ FROM TAG SIDE OF ASSEMBLY.
 - ALL DIMENSIONS ARE APPROXIMATE. CONTRACTOR TO SITE VERIFY ALL DIMENSIONS.
 - DIMENSIONING TO/FROM EXISTING CONDITIONS SHALL BE AT FACE OF EXISTING ASSEMBLY.
 - PROVIDE BLOCKING AS REQUIRED TO SUPPORT WALL MOUNTED EQUIPMENT.
 - REFER TO ELECTRICAL DRAWINGS FOR ALL CEILING MOUNTED EQUIPMENT SIZE AND TYPE.
 - SEE MECHANICAL DRAWINGS FOR HVAC EQUIPMENT SIZE AND TYPE.
 - HANY DAMAGE TO EXISTING ADJACENT CONSTRUCTION INCLUDING BUT NOT LIMITED TO (INTERIOR AND EXTERIOR) MASONRY, DRYWALL, SILLS, SOFFITS, A.C.T. CEILING AND GYPSUM BOARD CEILING, EQUIPMENT, LIGHT FIXTURES, MILLWORK, FURNITURE, FASCIA OR TRIM, ETC., WHICH ARE TO REMAIN ARE TO BE REPAIRED/REPLACED AT NO EXPENSE TO THE SCHOOL BOARD.
 - CONTRACTOR TO PROTECT ALL EXISTING INTERIOR FINISHES, MECHANICAL, ELECTRICAL, MILLWORK AND FURNITURE DURING ALL PHASES OF CONSTRUCTION.
 - MAKE GOOD ALL CEILING TILE WALLS/SURFACES AFTER CONSTRUCTION. FIX AND PAINT WALLS DAMAGED BY CONSTRUCTION AND/OR REPLACE CEILING IF DAMAGED BY CONSTRUCTION AT NO EXPENSE TO THE SCHOOL BOARD.
 - REMOVE AND REINSTALL CEILING REQ'D TO BE DISTURBED DURING DEMOLITION AND CONSTRUCTION WHERE NEEDED. ADJUST CEILING ACCORDINGLY WHERE REQUIRED.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REFER TO ASBESTOS AUDIT PRIOR TO DEMOLITION WORKS.
 - CAREFULLY REMOVE SECTIONS OF EXISTING CEILING AS REQUIRED FOR MECHANICAL/ELECTRICAL WORK.
- GENERAL DEMOLITION NOTES:**
- CONTRACTOR TO BE READ IN CONJUNCTION W/ ALL OTHER CONTRACT DOCUMENTS INCLUDING ABATEMENT SPECIFICATION, COORDINATE W/ OTHER TRADES PRIOR TO COMMENCING WORK.
 - CAREFULLY REMOVE SECTIONS OF EXISTING CEILING AS REQUIRED FOR MECHANICAL/ELECTRICAL WORK.
 - CAREFULLY REMOVE SECTIONS OF EXISTING CEILING AS REQUIRED FOR MECHANICAL/ELECTRICAL WORK.
 - EXECUTE DEMOLITION IN AN ORDERLY AND CAREFUL MANNER WITH DUE CONSIDERATION FOR ADJACENT STRUCTURES AND FINISHES.
 - ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO GUARD AGAINST MOVEMENT OR SETTLEMENT OF THE REMAINING STRUCTURE, INCLUDING ALL NECESSARY BRACING OR SHORING THAT IS REQUIRED.
 - ALL DEMOLITION DEBRIS TO BE DISPOSED BY DEMOLITION/ABATEMENT TRADE UNLESS OTHERWISE NOTED.
 - ALL CONTRACTORS INCLUDING ABATEMENT TO REFER TO MECHANICAL AND ELECTRICAL DRAWINGS OR DEMOLITION NOTES FOR DETAILS OF SCOPE OF MECHANICAL AND ELECTRICAL DEMOLITIONS.
 - CONTRACTOR SHALL BE ENTIRELY RESPONSIBLE FOR, AND MAKE GOOD ALL DAMAGE TO ADJACENT FINISHED SURFACES AND ASSEMBLIES.
 - CONTRACTOR TO ENSURE ALL EXIT SIGNAGE TO REMAIN AS INSTALLED AND ENSURE FIXTURES ARE OPERATIONAL. CONTRACTOR TO PROVIDE RE-SUPPORT AS REQUIRED TO SUIT PHASING.
 - CONTRACTOR TO ENSURE ALL EMERGENCY LIGHT FIXTURES TO REMAIN ALONG EGRESS ROUTES.
 - PATCH AND MAKE GOOD ANY DAMAGED FIRE ASSEMBLIES WITH CONTINUOUS FIRESTOPPING/FIREBLOCKING EQUAL TO THAT OF WALL/FLOOR.
 - CONTRACTOR TO ENSURE ALL MANUAL PULL STATIONS AND FIRE ALARM BELLS REMAIN OPERATIONAL. IF A DEVICE MUST BE REMOVED, THE DEVICE MUST BE PROPERLY DE-PROGRAMMED BY LICENSED FIRE ALARM TECHNICIAN AND RE-ACTIVATED AT END OF WORKING DAY. FIRE WATCH MUST BE PROVIDED BY DEMOLITION/ABATEMENT TRADE WITHOUT ADDITIONAL COST TO OWNER OR CONSULTANT.
 - CONTRACTOR TO PROVIDE DUST CONTROL AND HOARDING IN ISOLATED DEMOLITION, TYP. FOR EACH LOCATION.
 - CONTRACTOR SHALL PATCH AND MAKE GOOD ALL FLOORS WHERE DISTURBED BY REMOVAL OF WALL ASSEMBLY AND/OR EXISTING FINISHES.
 - IF AN ITEM IS NOT NOTED TO BE REINSTALLED OR TURNED OVER TO THE OWNER, IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO DISPOSE OF ITEMS.
 - IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO REVIEW ALL DESIGNATED SUBSTANCES DOCUMENTATION PRIOR TO COMMENCING WORK.
 - IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO REMOVE ALL LOOSE FURNITURE AND WALL MOUNTED DISPLAYS PRIOR TO CONSTRUCTION START.

Ontario's 2012 Building Code Data Matrix Part 11

Ontario's 2012 Building Code Data Matrix Part 11			OBC Reference
11.1	Existing Building Classification	Describe Existing Use: GROUP A2 TO REMAIN (SECONDARY SCHOOL) Construction Index: - Hazard Index: - ■ Not Applicable (no change of major occupancy)	11.2.1. T11.2.1.1A T11.2.1.1B-N
11.2	Alteration to Existing Building Is	Basic Renovation ■ Extensive Renovation	
11.3	Reduction in Performance Level	Structural ■ No □ Yes By Increase in Occupant Load ■ No □ Yes By Change of Major Occupancy ■ No □ Yes Plumbing ■ No □ Yes Sewage-System ■ No □ Yes	11.4.2. 11.4.2.1-5
11.4	Compensating Construction	Structural ■ No □ Yes (explain) - Increase in Occupant Load ■ No □ Yes (explain) - Change of Major Occupancy ■ No □ Yes (explain) - Plumbing ■ No □ Yes (explain) - Sewage System ■ No □ Yes (explain) -	11.4.3. 11.4.3.2. 11.4.3.3. 11.4.3.4. 11.4.3.5. 11.4.3.6.
11.5	Compliance Alternatives Proposed	■ No □ Yes (give number(s))	11.5.1.
11.6	Alternative Measures Proposed	■ No □ Yes (give number(s))	11.5.2.

- OBC NOTES:**
- MAJOR OCCUPANCY: GROUP A2 TO REMAIN (SECONDARY SCHOOL)
 - EXISTING BUILDING AREA: **9,036.21m² (97,265 SF) EXISTING**
 - AREA OF RENOVATION: **300.35 m² (3233 ft²)**
 - EXISTING BUILDING: SPRINKLERED
 - FIRE ALARM - EXISTING

DRAWING LEGEND:

- DOOR, FRAME/SIDELIGHT TO BE REMOVED. REFER TO DEMOLITION NOTES FOR SPECIFIC SCOPE.
- WALL ASSEMBLY TO BE REMOVED. REFER TO DEMOLITION NOTES FOR SPECIFIC SCOPE.
- DENOTES EXISTING DOOR TO REMAIN UNDISTURBED.
- DENOTES EXISTING WALL TO REMAIN.
- HATCH DENOTES AREA NOT IN SCOPE OF ARCHITECTURAL WORK - TYPICAL

DOOR ELEVATION

DOOR FRAME ELEVATION

LEGEND:

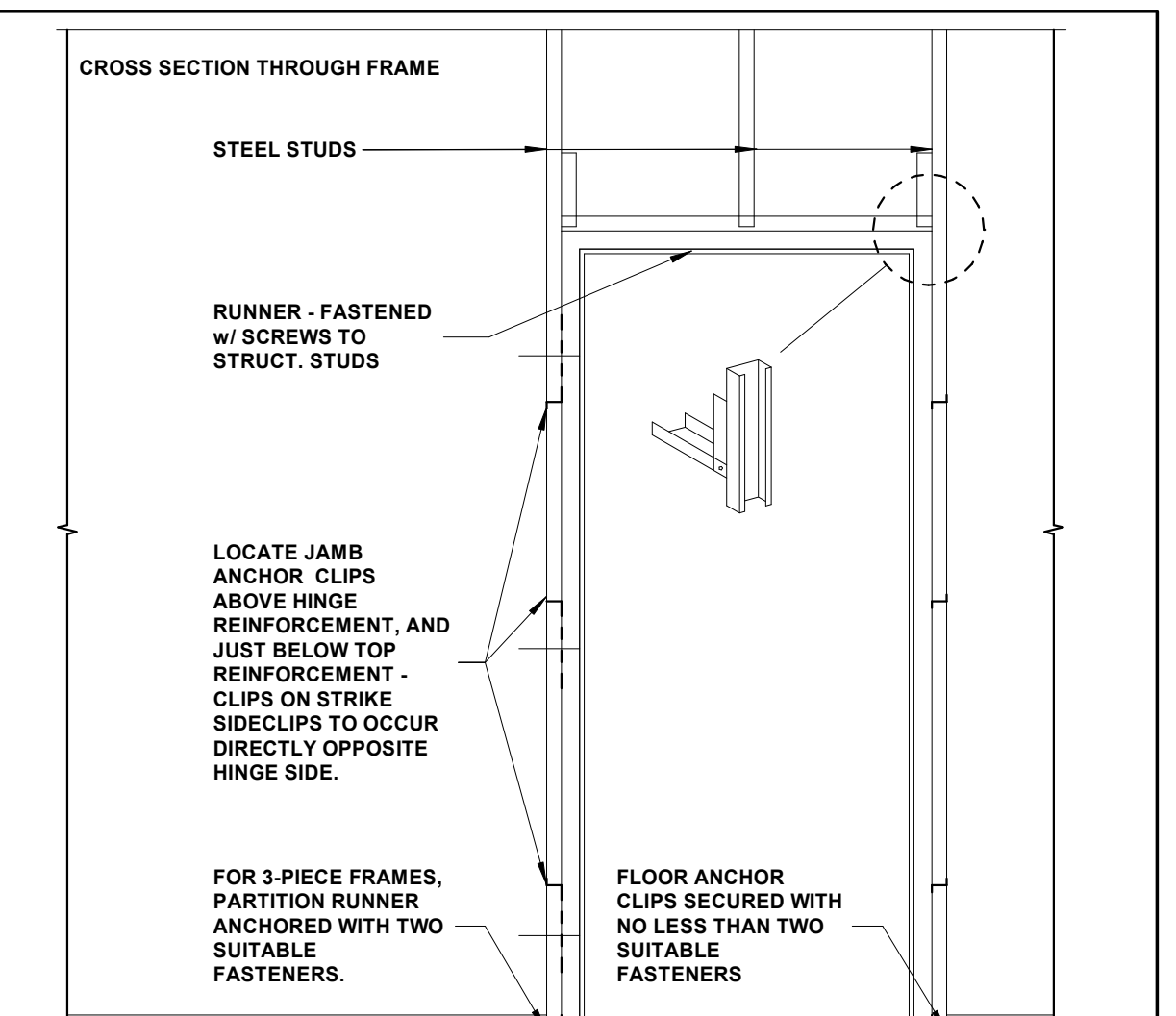
- ALUMINUM LOUVRE, WHERE INDICATED ON DOOR SCHEDULE

GENERAL NOTES:

FOR TYPICAL CONSTRUCTION DETAILS REFER TO DETAIL DRAWINGS.

DOOR AND GLASS PROFILES AND SIZES ARE SHOWN DIAGRAMMATICALLY ONLY. ACTUAL SIZES TO COMPLY WITH THE MAXIMUM LIMITS AS PERMITTED UNDER THE O.B.C. FOR INDIVIDUAL DOOR REQUIREMENTS.

FOR METAL STUD SIZES AND GWB THICKNESS, REFER TO WALL TYPES LEGEND AND DETAIL DRAWINGS.



DOOR & SCREEN SCHEDULE

Door/Screen Mark	WidthxHeight Thickness	Door/Screen				Frame				Hardware				Weather Strip	Fire Rating	Temp Rise	Notes
		Type / Elev	Material	Finish	Glazing	Grille	Type / Elev	Profile	Material	Finish	ULC Panics	Closer	Threshold				
201	813x2134x51	A	HM	PNT	---	600x700	F1	DF1	HM	PNT	No	No	No	No	-		OHS, KS
202	813x2134x51	A	HM	PNT	---	750x1200	F1	DF1	HM	PNT	No	No	No	No	-		OHS, KS
203	813x2134x51	A	HM	PNT	---	600x700	F1	DF1	HM	PNT	No	No	No	No	-		OHS, KS
204	813x2134x51	A	HM	PNT	---	600x700	F1	DF1	HM	PNT	No	No	No	No	-		OHS, KS
206	813x2134x51	A	HM	PNT	---	600x700	F1	DF1	HM	PNT	No	No	No	No	-		KS
301	813x2134x51	A	HM	PNT	---	750x1200	F1	DF1	HM	PNT	No	No	No	No	-		OHS, KS
302	813x2134x51	A	HM	PNT	---	750x1200	F1	DF1	HM	PNT	No	No	No	No	-		OHS, KS
303	813x2134x51	A	HM	PNT	---	750x1200	F1	DF1	HM	PNT	No	No	No	No	-	No	OHS, KS

DOOR FRAME PROFILES:

LEGEND:

- LINE OF BASE BELOW - SEE FINISHES PLAN FOR BASE MATERIAL
- FILL WITH GROUT (TYPICAL)
- G.W.B. WRAP-AROUND FRAME
- WOOD SHIM
- DOUBLE STEEL STUD
- GYPSUM WALL BOARD

GENERAL NOTE:

- REFER TO SPEC. FOR CONCRETE BLOCK CORNER TREATMENT.
- FOR GLAZING TYPE REFER TO DOOR SCHEDULE.

DOOR SCHEDULE LEGEND

HM	HOLLOW METAL
PNT	PAINT
PDO	POWER DOOR OPERATOR
OHS	OVERHEAD STOP
TGL	TEMPERED GLASS
FRGL	FIRE RATED GLASS
KS	KICK STOP

CLIENT LOGO

KEYPLAN

TRUE NORTH PROJECT NORTH

No.	ISSUANCE	DATE
1	ISSUED FOR 60% OWNER REVIEW	2024-01-25
2	ISSUED FOR 90% OWNER REVIEW	2024-02-21
3	ISSUED FOR BID AND PERMIT	2024-02-28

CLIENT

WATERLOO REGIONAL DISTRICT SCHOOL BOARD

51 Ardelt Avenue, Kitchener, ON N2C 2R5

PROJECT

JACOB HESPELER SS HEAT PUMP REPLACEMENT

355 Holiday Inn Dr, Cambridge, ON N3C 1Z2

TITLE

ASSEMBLIES, LEGENDS, NOTES

WALTERFEDY

KITCHENER | HAMILTON | TORONTO

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SEAL

2021-0807-12

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SCALE: _____ SHEET NO: _____

DATE: 2024.02.28

PROJECT NO: 2021-0807-12

DRAWN BY: HA

CHECKED BY: MM

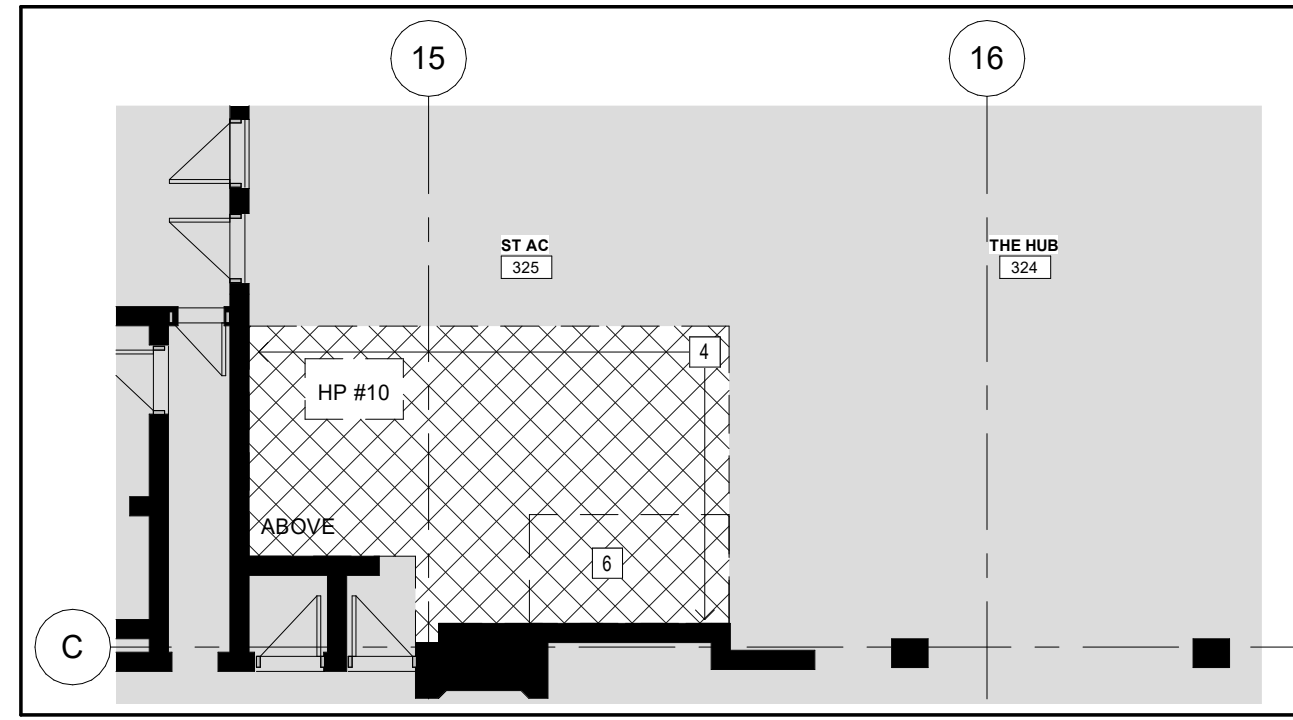
A001

DEMOLITION NOTES

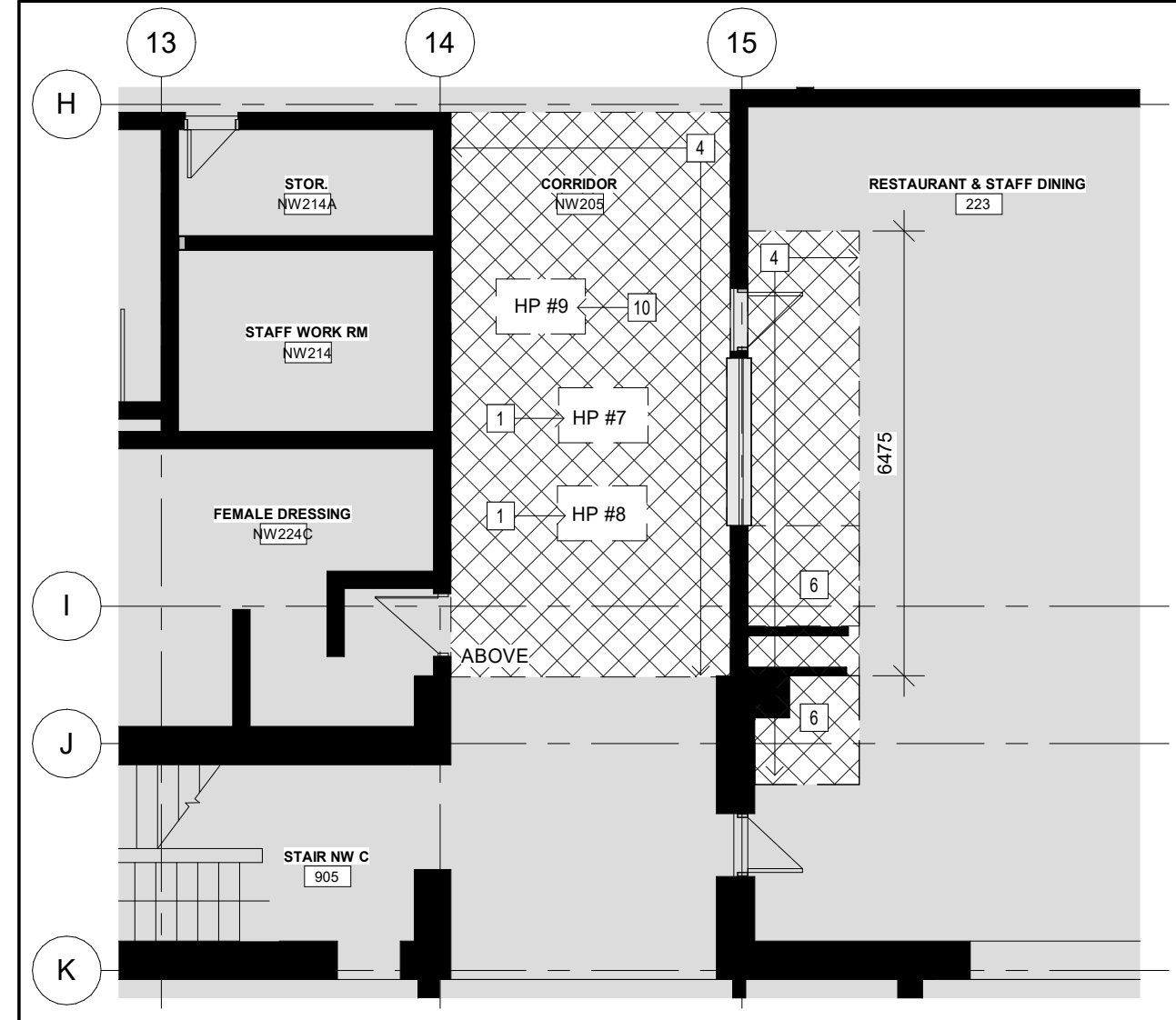
- 1 REMOVE, REPLACE AND RELOCATE EXISTING HEAT PUMP. REFER TO RENOVATION DRAWINGS FOR NEW LOCATION. EXTEND DUCTS AS REQ'D. REFER TO MECHANICAL DRAWINGS FOR REPLACEMENT.
- 2 EXISTING EXPOSED CEILING MOUNTED HEAT PUMP TO REMAIN UNDISTURBED
- 3 REMOVE AND REPLACE EXISTING HEAT PUMP WITH NEW UNITS. REFER TO MECHANICAL DRAWINGS FOR REPLACEMENT. PREPARE DUCTS AND ELECTRICAL WIRING TO ACCOMMODATE NEWLY INSTALLED UNITS.
- 4 REMOVE AND STORE CEILING TILES AND T-BAR AS REQ'D. TO BE REINSTATED UPON COMPLETION OF MECH/ELEC. WORK. PATCH AND MAKE GOOD ADJACENT SURFACES AFFECTED BY WORK. PROVIDE NEW CEILING TILES TO MATCH EXISTING WHERE DAMAGED BY WORK
- 5 REMOVE AND DISPOSE OF EXISTING CEILING TILES AND T-BARS. INSTALL NEW MATCHING TILES AND T-BARS UPON COMPLETION OF MECH/ELEC. WORK. PATCH AND MAKE GOOD ADJACENT SURFACES AFFECTED BY WORK.
- 6 FLOORING FINISH TO RECEIVE NEOPRENE ISOLATORS FOR HEAT PUMP INSTALLATION.
- 7 REMOVE AND REPLACE EXISTING EXPOSED CEILING MOUNTED HEAT PUMPS
- 8 REMOVE EXISTING GYPSUM CEILING AND METAL FURRING AS REQ'D. DEMOLISHED AREAS OF CEILING TO BE REPLACED UPON COMPLETION OF MECH/ELEC. WORK. PATCH AND MAKE GOOD ALL SURFACES AFFECTED BY WORK. PRIME AND PAINT AFFECTED AREAS WITH MATCHING COLORS TO EXISTING.
- 9 REMOVE AND DISPOSE OF EXISTING CEILING TILES AND T-BAR COMPLETE. PATCH AND MAKE GOOD ADJACENT SURFACES AFFECTED BY WORK.
- 10 REMOVE AND DISPOSE OF EXISTING HEAT PUMPS AND TERMINATE UNUSED DUCTS AS REQ'D. REWORK CEILING TO MATCH EXISTING. SUPPLY NEW CEILING TILES AND GRIDS AS REQUIRED. REFER TO MECHANICAL DRAWINGS.

FLOOR PLAN LEGEND:

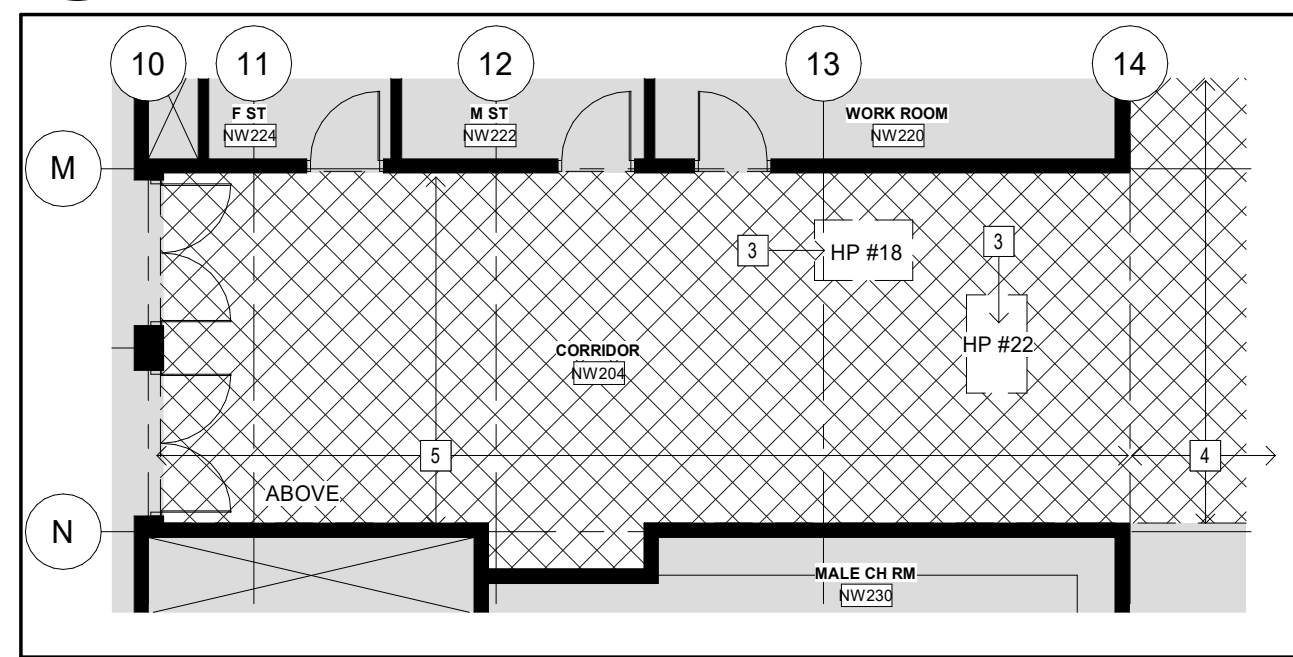
- 1 DEMOLITION NOTE SYMBOL
- ① RENOVATION NOTE SYMBOL
- DOOR, FRAME/SIDELIGHT TO BE REMOVED. REFER TO DEMOLITION NOTES FOR SPECIFIC SCOPE.
- WALL ASSEMBLY TO BE REMOVED. REFER TO DEMOLITION NOTES FOR SPECIFIC SCOPE.
- DENOTES EXISTING DOOR TO REMAIN UNDISTURBED.
- DENOTES EXISTING WALL TO REMAIN.
- HATCH DENOTES AREA NOT IN SCOPE OF ARCHITECTURAL WORK - TYPICAL
- HATCHED AREA DENOTES APPROX. AREA OF CEILING REMOVAL OR RE-WORK TO ACCOMMODATE MECH/ELEC. STRUC. WORK. REFER TO DEMOLITION NOTES BELOW. FINAL REMOVAL EXTENTS TO BE COORDINATED ON SITE.
- CEILING TILES:** REMOVE AND STORE CEILING TILE AND GRID AS REQ'D. TO BE RE-INSTATED UPON COMPLETION OF MECH/ELEC. STRUC. WORK. PATCH AND MAKE GOOD ADJACENT SURFACES AFFECTED BY WORK. PROVIDE NEW CEILING TILES TO MATCH EXISTING WHERE DAMAGED BY WORK.
- GYPSUM PLASTER:** CAREFULLY REMOVE AS REQ'D. PROTECT ADJACENT SURFACES AND FINISHES. PATCH AND MAKE GOOD ADJACENT SURFACES AFFECTED BY WORK. PROVIDE NEW GYPSUM CEILING C/W STUD SUPPORT AT AREAS OF REMOVAL. PRIME AND PAINT TO MATCH EXISTING ADJACENT.



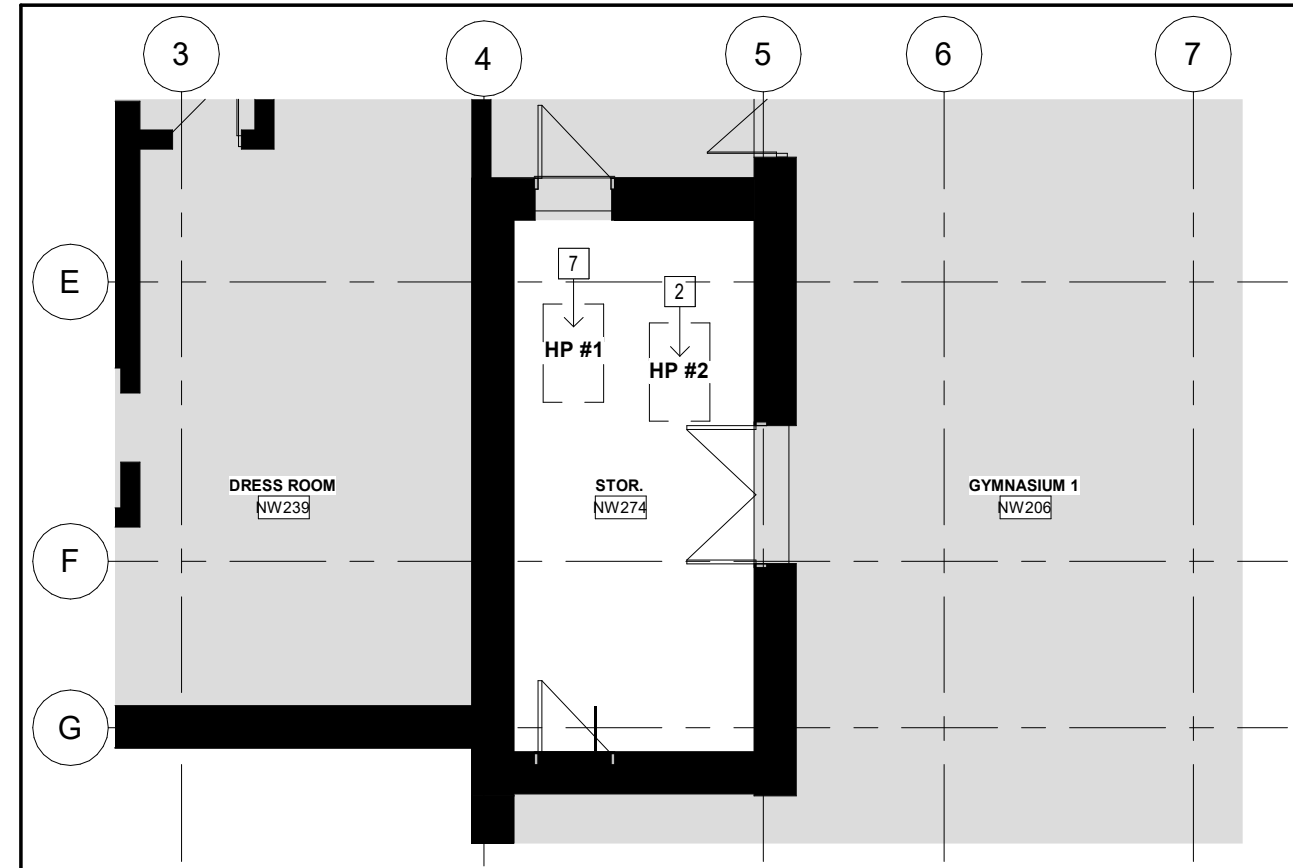
6 PARTIAL DEMOLITION FLOOR PLAN LEVEL 02 - PART E
A002 Scale: 1 : 100



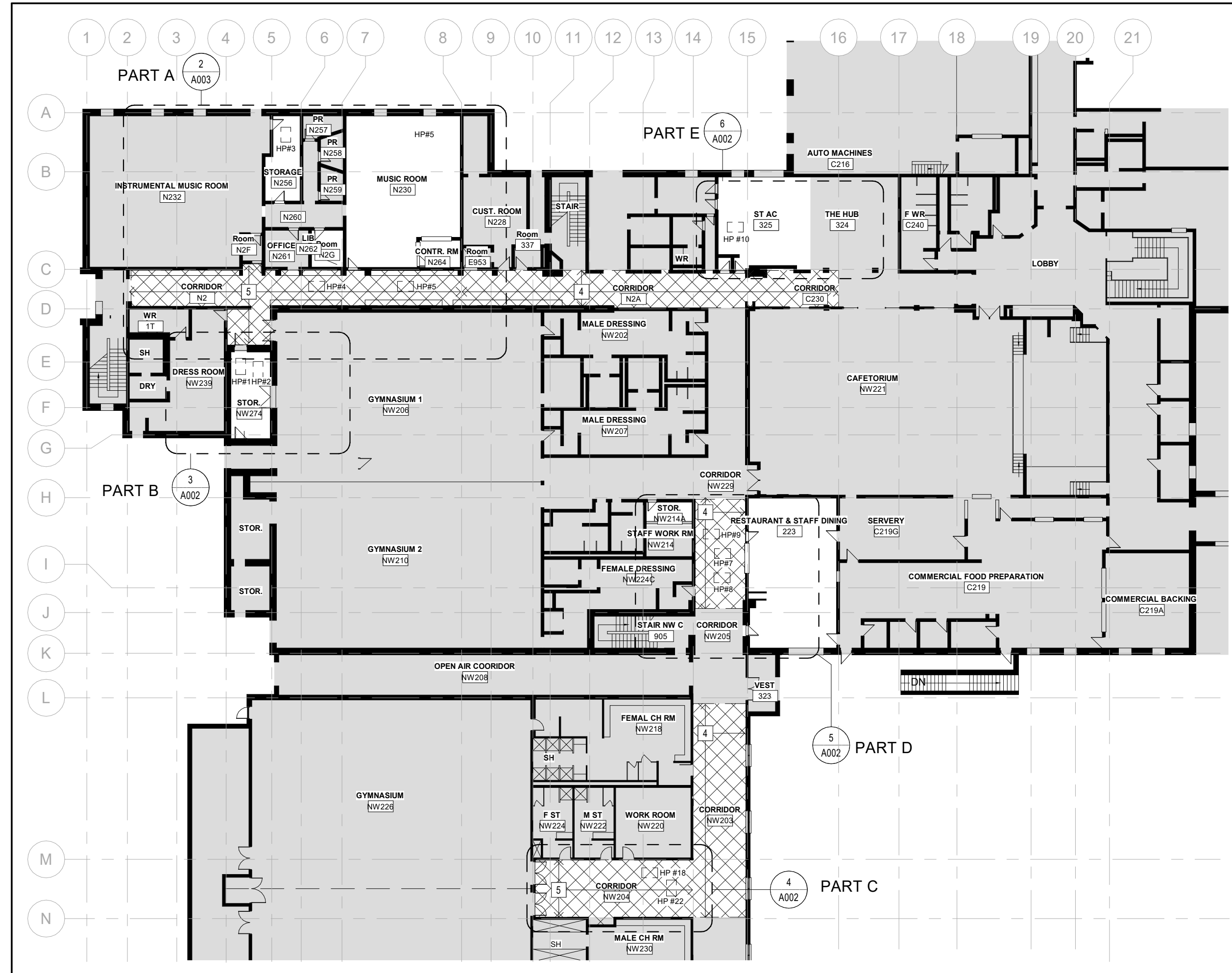
5 PARTIAL DEMOLITION FLOOR PLAN LEVEL 02 - PART D
A002 Scale: 1 : 100



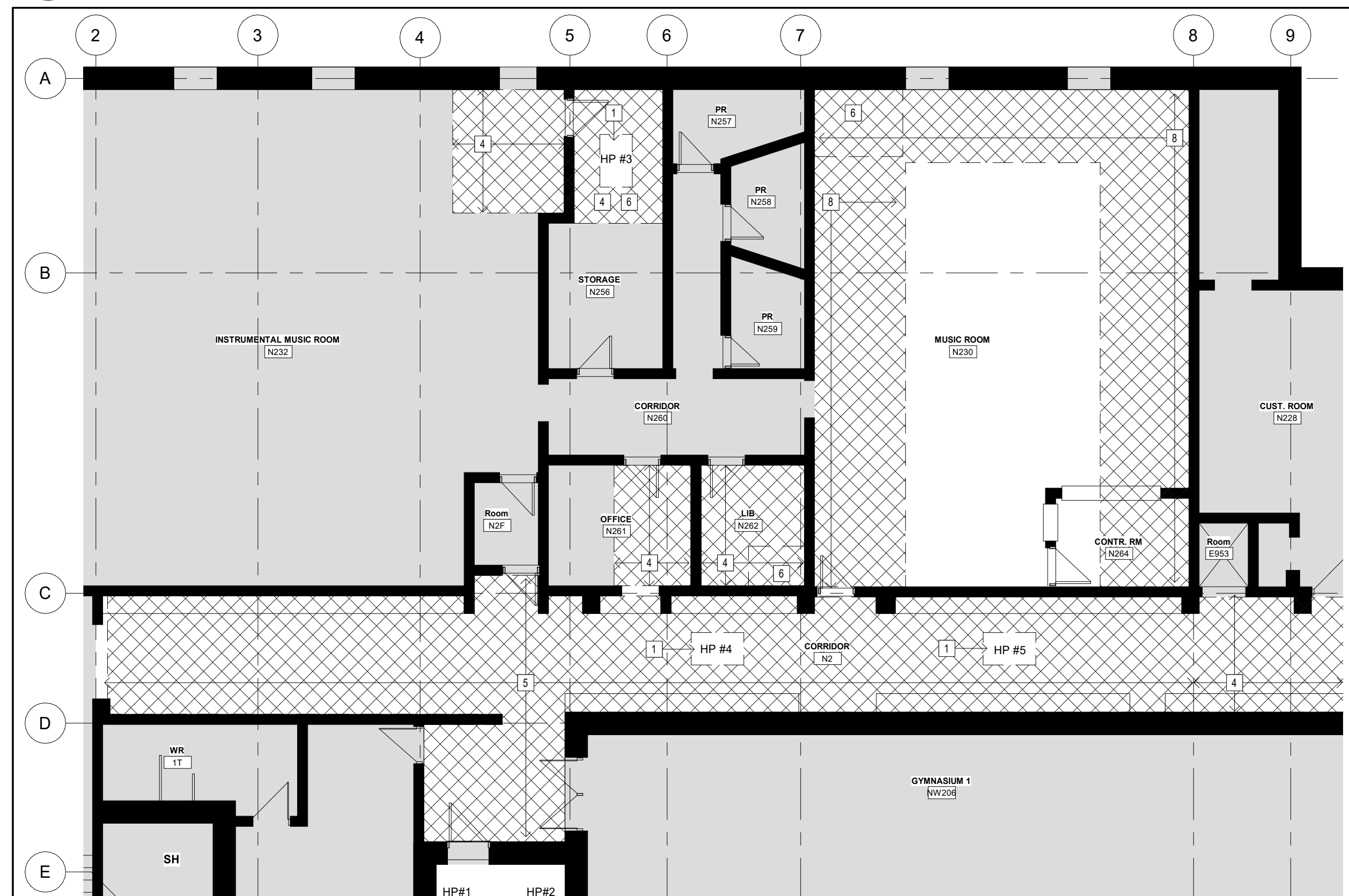
4 PARTIAL DEMOLITION FLOOR PLAN LEVEL 02 - PART C
A002 Scale: 1 : 100



3 PARTIAL DEMOLITION FLOOR PLAN LEVEL 02 - PART B
A002 Scale: 1 : 100



1 OVERALL DEMOLITION FLOOR PLAN LEVEL 02 - WING B
A002 Scale: 1 : 300

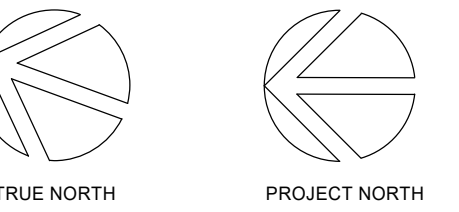
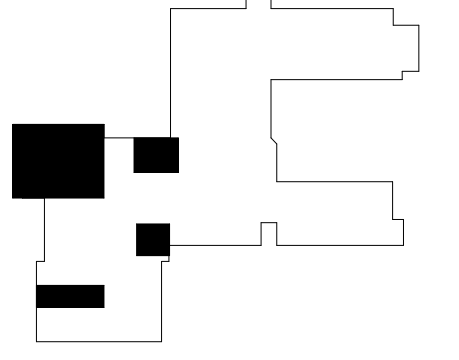


2 PARTIAL DEMOLITION FLOOR PLAN LEVEL 02 - PART A
A002 Scale: 1 : 100

CLIENT LOGO



KEYPLAN



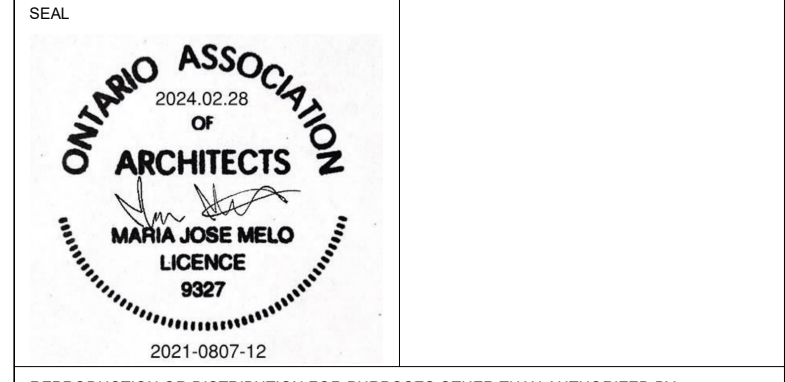
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CLIENT
WATERLOO REGIONAL DISTRICT SCHOOL BOARD
51 Ardelt Avenue, Kitchener, ON N2C 2R5

PROJECT
JACOB HESPELER SS HEAT PUMP REPLACEMENT
355 Holiday Inn Dr, Cambridge, ON N3C 1Z2

TITLE
DEMOLITION FLOOR PLANS - LEVEL 02-WING B

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SCALE:		SHEET NO:	A002
DATE:	2024.02.28		
PROJECT NO.:	2021-0807-12		
DRAWN BY:	HA		
CHECKED BY:	MM		

DRAWING NOTES:

- REMOVE AND DISPOSE OF EXISTING CEILING TILES AND T-BAR SYSTEM WITHIN THE DESIGNATED ENCLOSURE TO ACCOMMODATE FOR NEW FLOOR MOUNTED HEAT PUMP AND DUCTS. ANY EXTRA CEILING WORK OUTSIDE THE ENCLOSURES TO BE RE-INSTATED OR REPLACED AS REQUIRED.
- REMOVE AND DISPOSE OF EXISTING CEILING TILES AND T-BAR SUSPENSION SYSTEM. COMPLETE MECHANICAL AND ELECTRICAL WORK AND INSTALL NEW ACoustic CEILING TILES AND T-BAR TO MATCH EXISTING. REFER TO REFLECTED CEILING PLAN AND ELECTRICAL DRAWINGS.
- REMOVE AND RE-STALL EXISTING ACoustic CEILING TILE AND T-BAR SUSPENSION SYSTEM AS REQUIRED TO ACCOMMODATE FOR NEW WALLS AND COMPLETED MECH/ELEC. WORK. RE-STALL UPON COMPLETION OF WORK AND REPLACE ANY DAMAGED TILES/T-BARS OR LIGHT FIXTURES WITH NEW TO MATCH EXISTING AS REQUIRED.
- INSTALL NEW GYPSUM STUD WALLS. REFER TO WALL ASSEMBLY FOR COMPOSITION, REWORK CEILING AND BULKHEAD AS REQUIRED. PATCH AND MAKE GOOD TO ACCOMMODATE NEWLY INSTALLED HOLLOW METAL DOORS AND THERMOSTATS WHERE INDICATED ON MECHANICAL DRAWINGS. REPAIR WALLS TO MATCH EXISTING ADJACENT WALLS.
- ALL NEW WALLS TO INCLUDE BASE BOARDS ON THE EXTERIOR SIDE TO MATCH EXISTING.
- REPLACE EXISTING CEILING HEAT PUMP AND RELOCATE TO FLOOR MOUNTING. EXTEND DUCTS AND TERMINATE UNUSED DUCTS AS REQ'D. REWORK CEILING OUT SIDE THE MECHANICAL ENCLOSURES TO MATCH EXISTING. REFER TO MECHANICAL DRAWINGS FOR REPLACEMENT AND FURTHER NOTES.
- REPLACE EXISTING CEILING HEAT PUMP WITH NEW UNITS. REFER TO MECHANICAL REWORK DUCTS. CEILING TILES AND GRIDS AS REQUIRED/INDICATED. CAREFULLY NAVIGATE AROUND EXISTING SPRINKLER SYSTEMS, ENSURING NO DAMAGE AND CONFIRM PROPER FUNCTIONALITY. CONTRACTOR TO BARE RESPONSIBILITY FOR ANY DAMAGE OCCURS DURING CONSTRUCTION.
- INFILL WALL OPENINGS WHERE EXISTING DUCTING IS BEING REMOVED. OPENINGS TO BE INFILLED WITH INSULATED STEEL STUD AND GIB ASSEMBLY, PRIMED AND PAINTED TO MATCH EXISTING COLOUR AND FINISH. FOR AREAS THAT ARE STILL VISIBLE (NOT CONCEALED ABOVE CEILING SPACE).
- EXISTING PORTION OF WINDOW GLAZING TO REMAIN UNFROSTED.
- INSTALL FROSTED FILM TO EXISTING WINDOW GLAZING.
- ALLOW FOR REPAIR AND PATCHING OF GYPSUM BOARD CEILING IN THE EVENT OF FINISH DAMAGE DUE TO HEAT PUMP AND DUCTING INSTALLATION. CEILING AND ALL SERVICES INCLUDING DUCTING, PIPING AND CONDUITS TO BE PAINTED TO MATCH EXISTING FINISH.
- REPLACE EXISTING EXPOSED BELOW CEILING HEAT PUMPS. PATCH AND MAKE GOOD ANY DISTURBED SURFACES.
- EXISTING HEAT PUMP TO REMAIN UNDISTURBED.
- CUT OPENINGS THROUGH EXISTING WALL ASSEMBLY AS REQUIRED TO ACCOMMODATE NEW DUCTING. REFER TO MECHANICAL DRAWINGS. PATCH AND MAKE GOOD. PRIME AND PAINT TO MATCH EXISTING COLOUR AND FINISH. FOR AREAS THAT ARE STILL VISIBLE (NOT CONCEALED ABOVE CEILING SPACE).
- REPAIR AND PATCH EXISTING WALLS TO ACCOMMODATE FOR THERMOSTAT CONNECTIONS. PRIME AND PAINT TO MATCH EXISTING COLOUR AND FINISH. REFER TO MECHANICAL DRAWINGS.

FLOOR PLAN LEGEND:

- 1 DEMOLITION NOTE SYMBOL
- 1 RENOVATION NOTE SYMBOL
- DOOR, FRAME/SIDE/LIGHT TO BE REMOVED. REFER TO DEMOLITION NOTES FOR SPECIFIC SCOPE.
- WALL ASSEMBLY TO BE REMOVED. REFER TO DEMOLITION NOTES FOR SPECIFIC SCOPE.
- DENOTES EXISTING DOOR TO REMAIN UNDISTURBED.
- DENOTES EXISTING WALL TO REMAIN.
- HATCH DENOTES AREA NOT IN SCOPE OF ARCHITECTURAL WORK - TYPICAL.

WALL ASSEMBLIES:

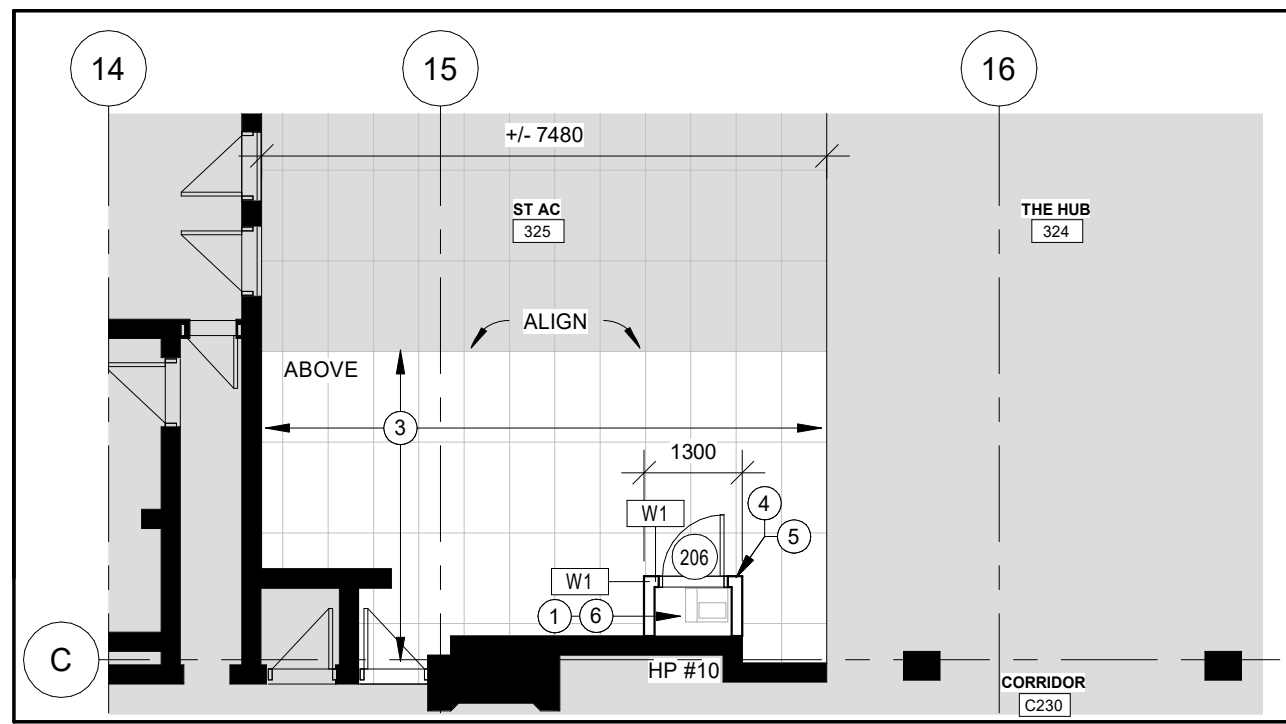
- W-1 15mm ABUSE-RESISTANT GYPSUM WALL BOARD
- 52mm STEEL STUDS @400mm O.C. WITH BATT INSULATION
- 15mm ABUSE-RESISTANT GYPSUM WALL BOARD
- GYPSUM WALL BOARD TO EXTEND TO U/S OF DECK. PRIME AND PAINT WALLS TO MATCH EXISTING

CEILING LEGEND:

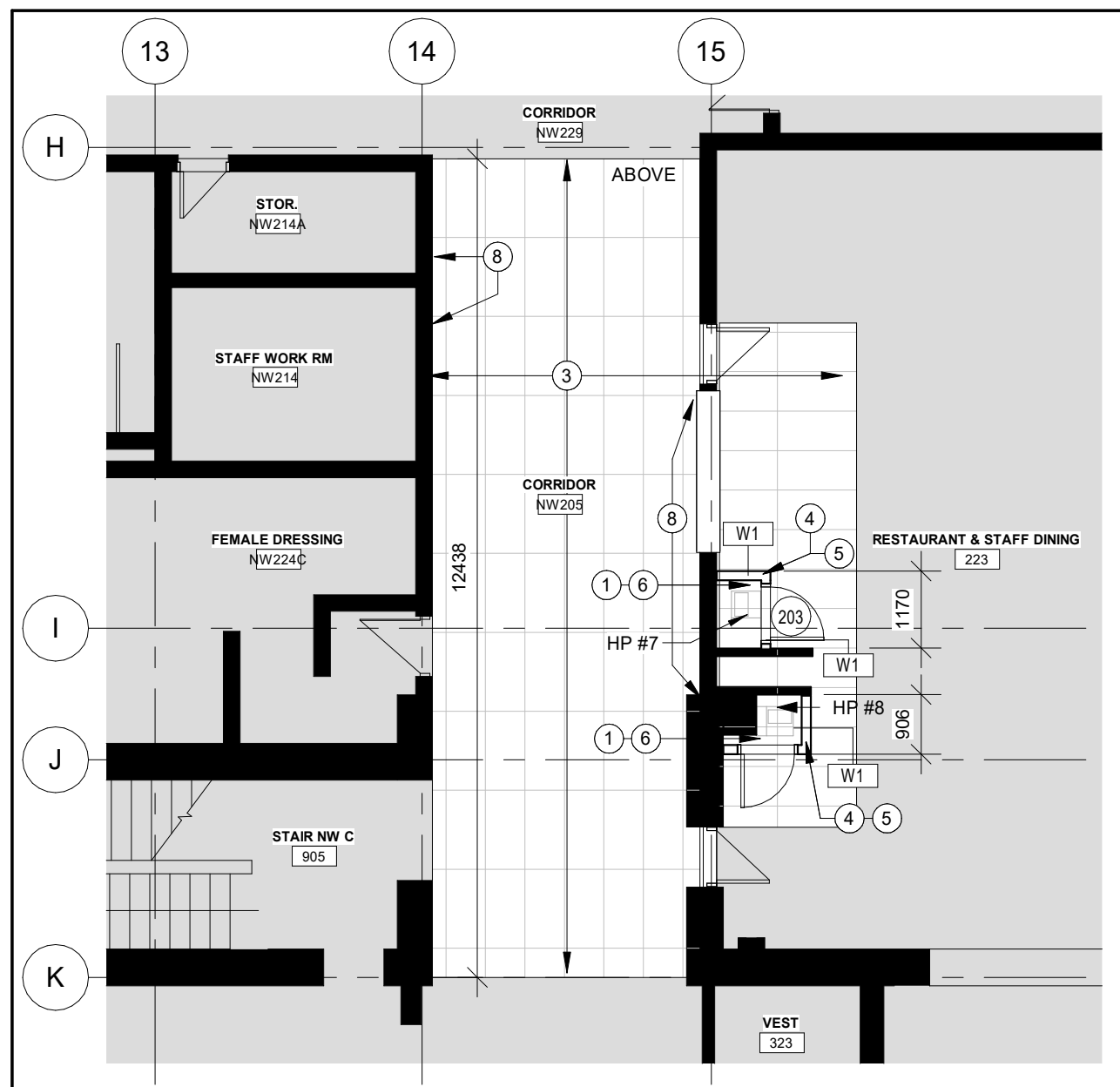
- DENOTES AREAS NOT IN SCOPE
- C-1 CEILING ASSEMBLY
- XXXX CEILING HEIGHT ABOVE FINISHED FLOOR
- RECESSED LED LIGHT FIXTURE. REFER TO ELEC. DRAWINGS FOR TYPE AND SIZE
- MECHANICAL SUPPLY AIR DIFFUSER. REFER TO MECHANICAL DRAWINGS FOR TYPE AND SIZE
- RETURN AIR GRILLE. REFER TO MECHANICAL DRAWINGS FOR TYPE AND SIZE

CEILING ASSEMBLIES:

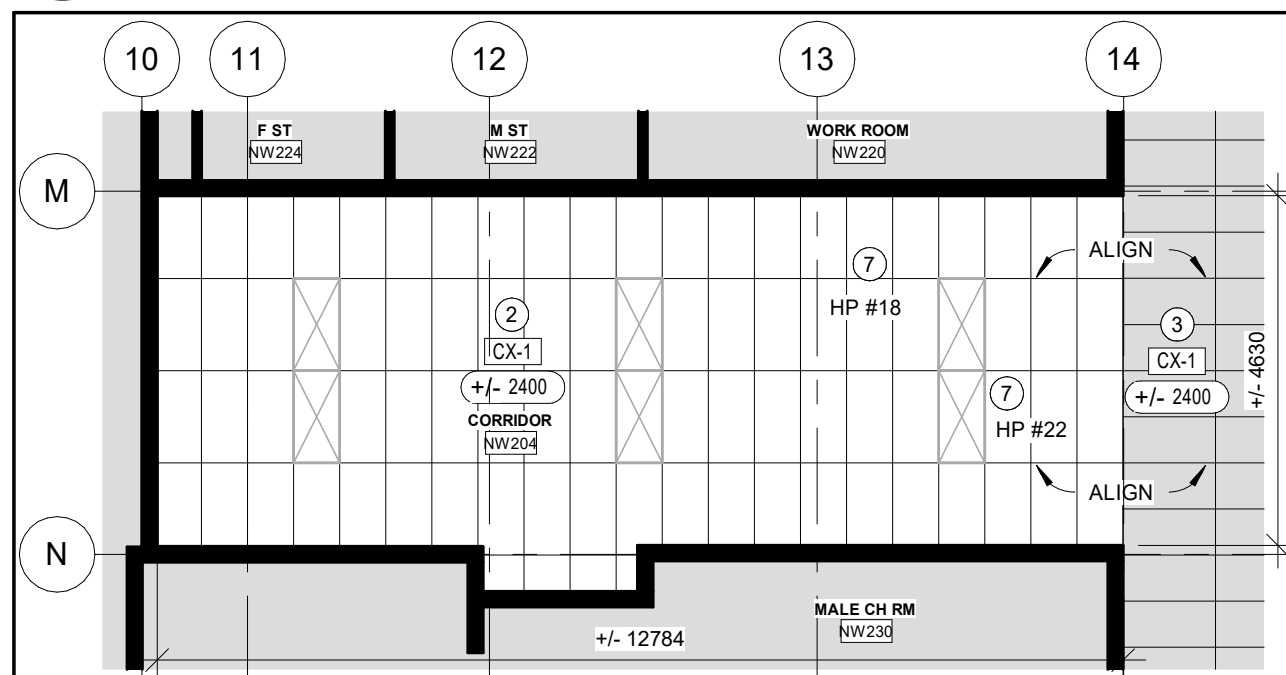
- C-X1 610 x 1220 ACoustic CEILING TILE ASSEMBLY WITH EXISTING METAL T-BAR SUSPENSION SYSTEM. REMOVE AND REPLACE NEW ACoustic CEILING TILES UPON COMPLETION OF MECH/ELEC.
- C-X2 610 x 1220 ACoustic CEILING TILE ASSEMBLY WITH EXISTING METAL T-BAR SUSPENSION SYSTEM. REMOVE AND RE-INSTALL UPON COMPLETION OF MECH/ELEC.
- C-X3 EXISTING GYPSUM WALL BOARD CEILING TO BE LEFT UNDISTURBED UNLESS OTHERWISE NOTED.
- C-X4 U/S OF DECK TO BE LEFT UNDISTURBED UNLESS OTHERWISE NOTED.



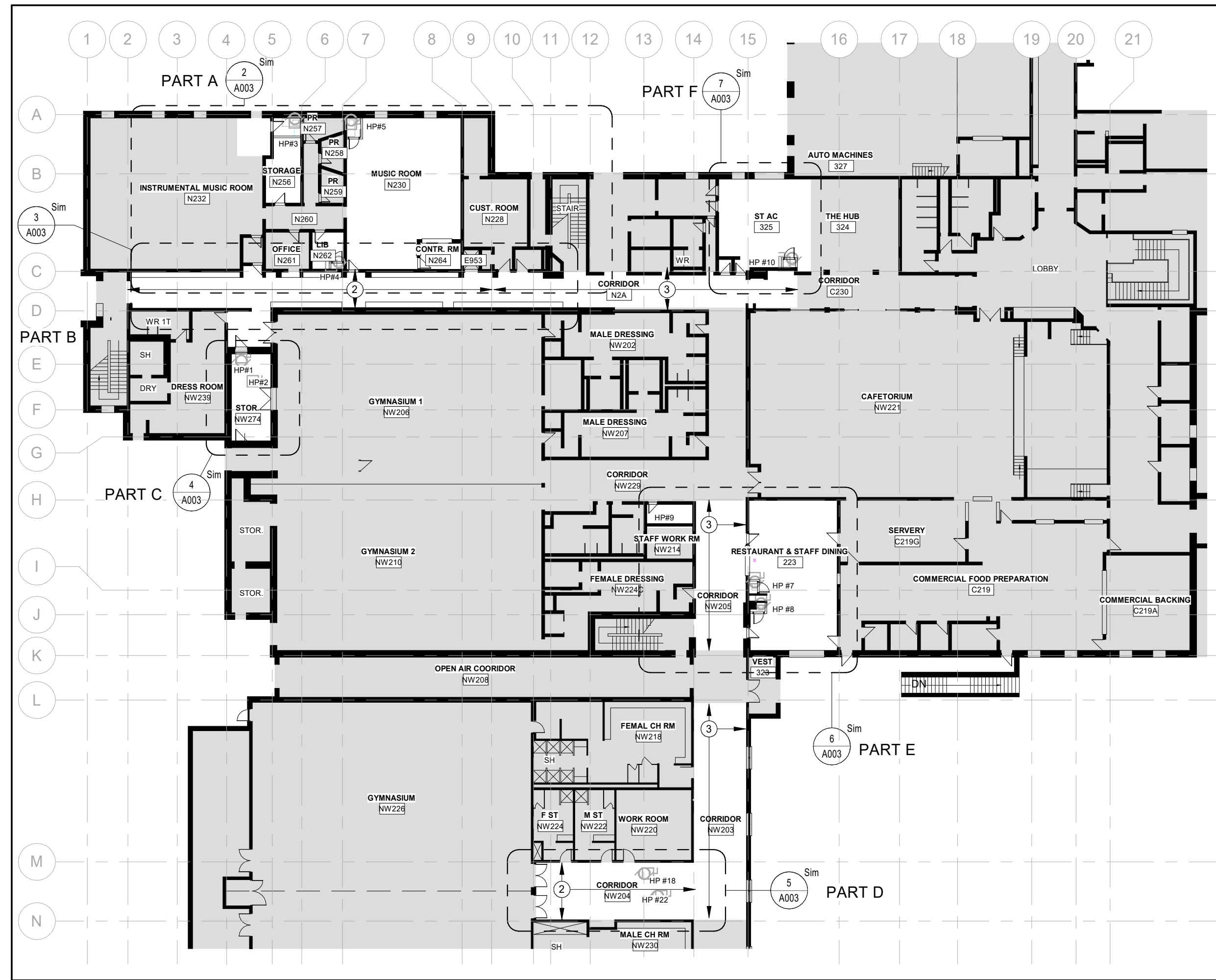
7 PARTIAL FLOOR PLAN LEVEL 02 - PART F
A003 Scale: 1 : 100



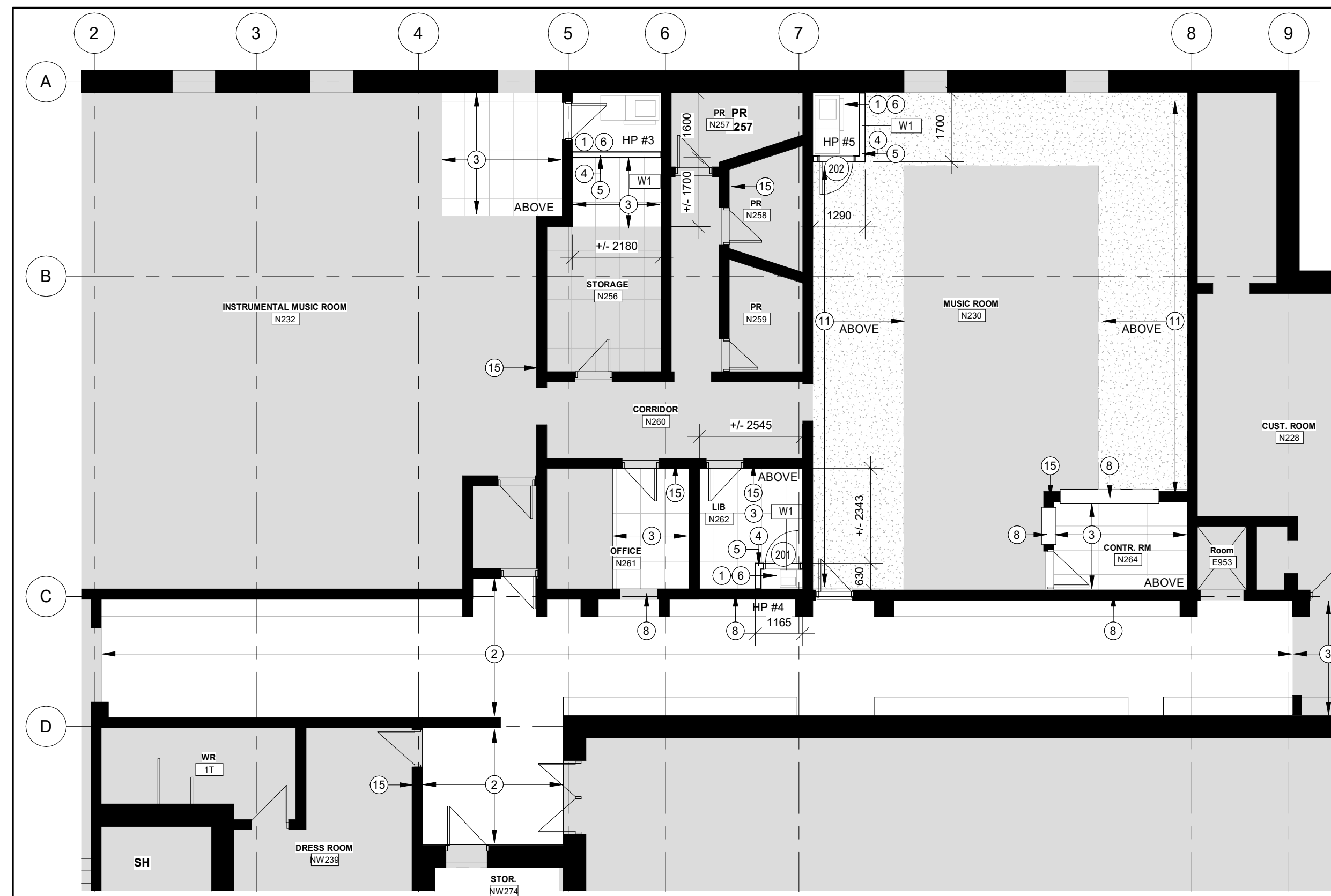
6 PARTIAL FLOOR PLAN LEVEL 02 - PART E
A003 Scale: 1 : 100



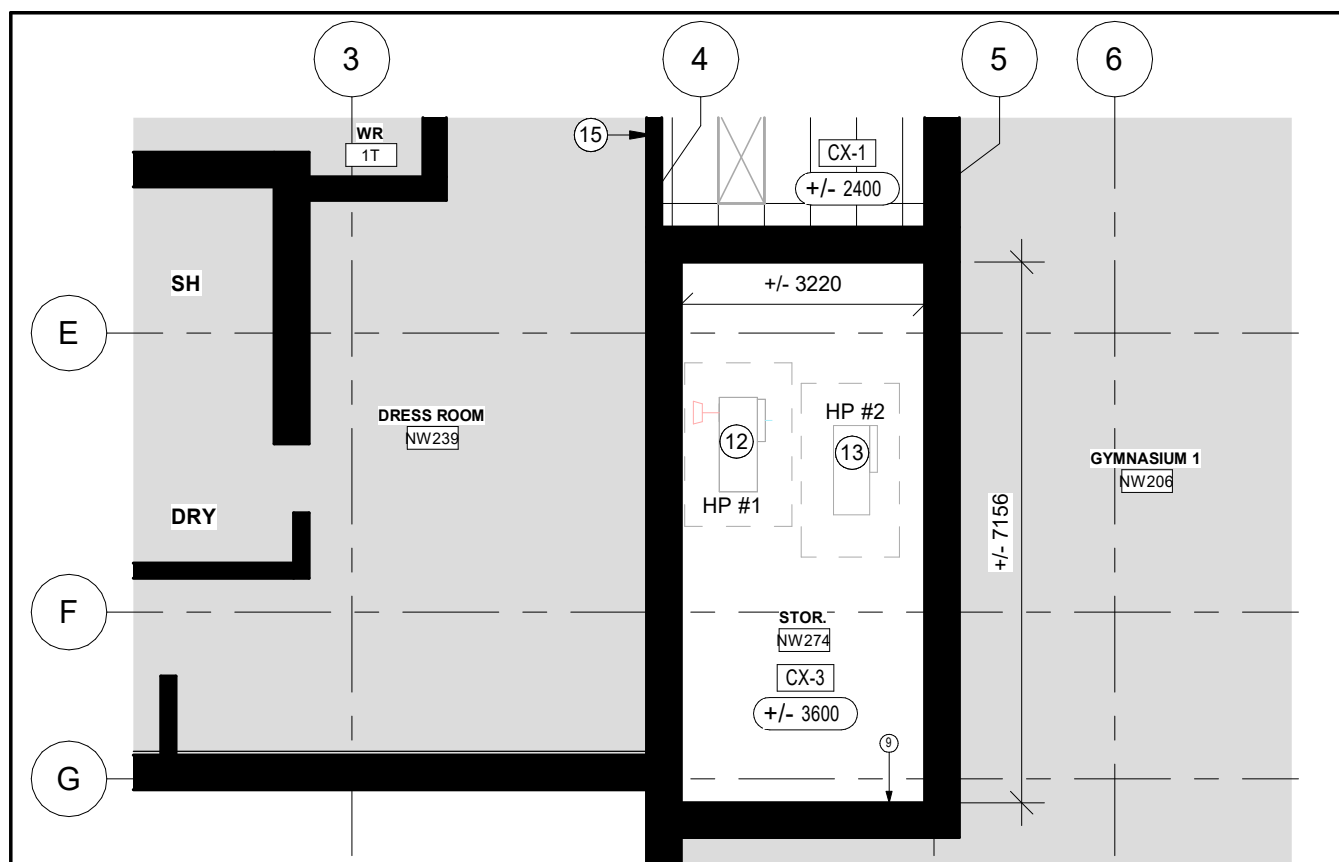
5 PARTIAL RCP LEVEL 02 - PART D
A003 Scale: 1 : 100



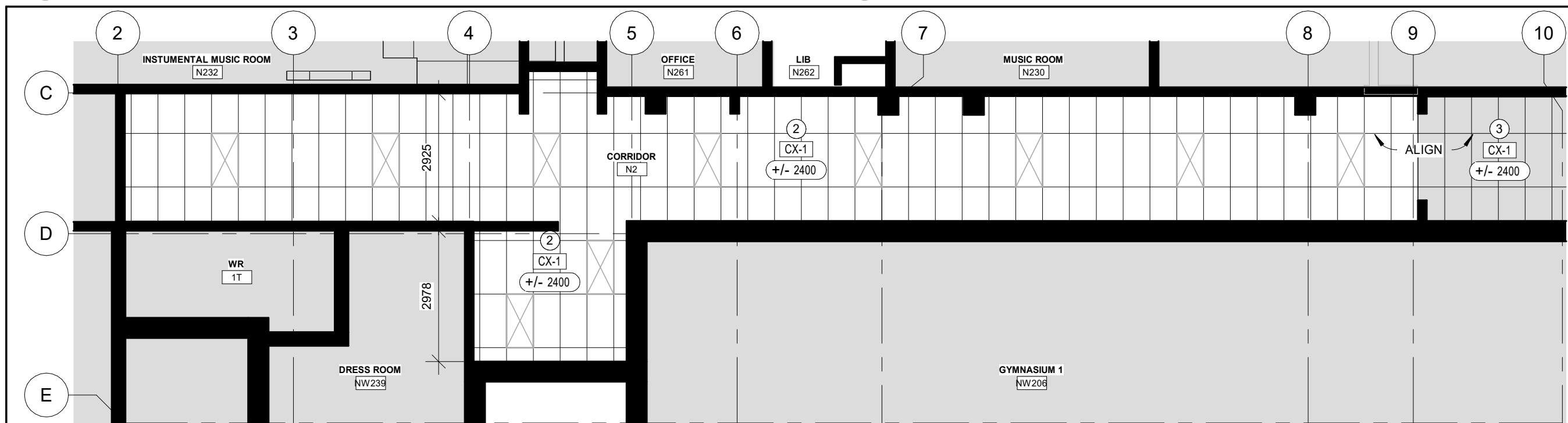
1 OVERALL FLOOR PLAN LEVEL 02 - WING B
A003 Scale: 1 : 300



2 PARTIAL FLOOR PLAN LEVEL 02 - PART A
A003 Scale: 1 : 100



4 PARTIAL RCP LEVEL 02 - PART C
A003 Scale: 1 : 100

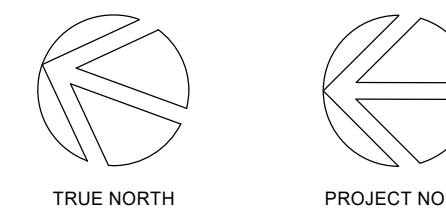
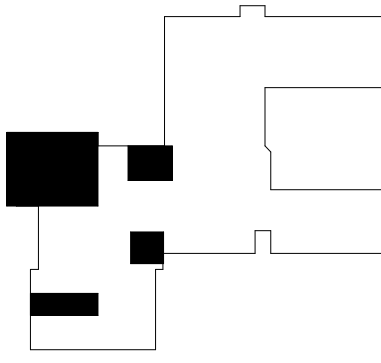


3 PARTIAL RCP LEVEL 02 - PART A
A003 Scale: 1 : 100

CLIENT LOGO



KEYPLAN



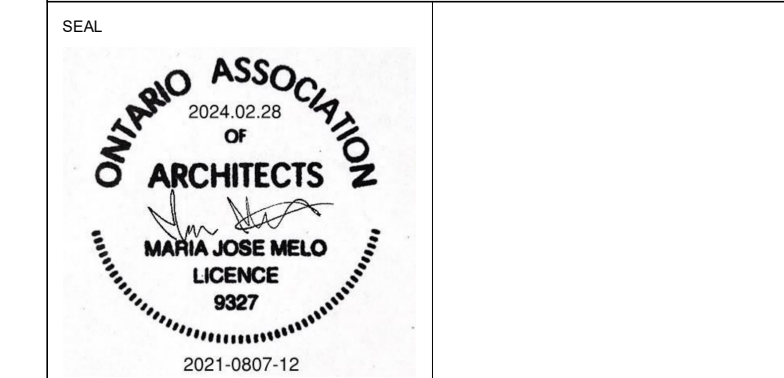
No.	ISSUANCE	DATE
1	ISSUED FOR 60% OWNER REVIEW	2024-01-25
2	ISSUED FOR 90% OWNER REVIEW	2024-02-21
3	ISSUED FOR BID AND PERMIT	2024-02-28

CLIENT
WATERLOO REGIONAL DISTRICT SCHOOL BOARD
51 Ardelt Avenue, Kitchener, ON N2C 2R5

PROJECT
JACOB HESPELER SS HEAT PUMP REPLACEMENT
355 Holiday Inn Dr, Cambridge, ON N3C 1Z2

TITLE
FLOOR PLANS AND REFLECTED CEILING PLANS - LEVEL 02 - WING B

WALTERFEDY
KITCHENER | HAMILTON | TORONTO
800.685.1378 walterfedy.com



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SCALE:		SHEET NO:	
DATE:	2024.02.28		
PROJECT NO:	2021-0807-12		
DRAWN BY:	HA		
CHECKED BY:	MM		

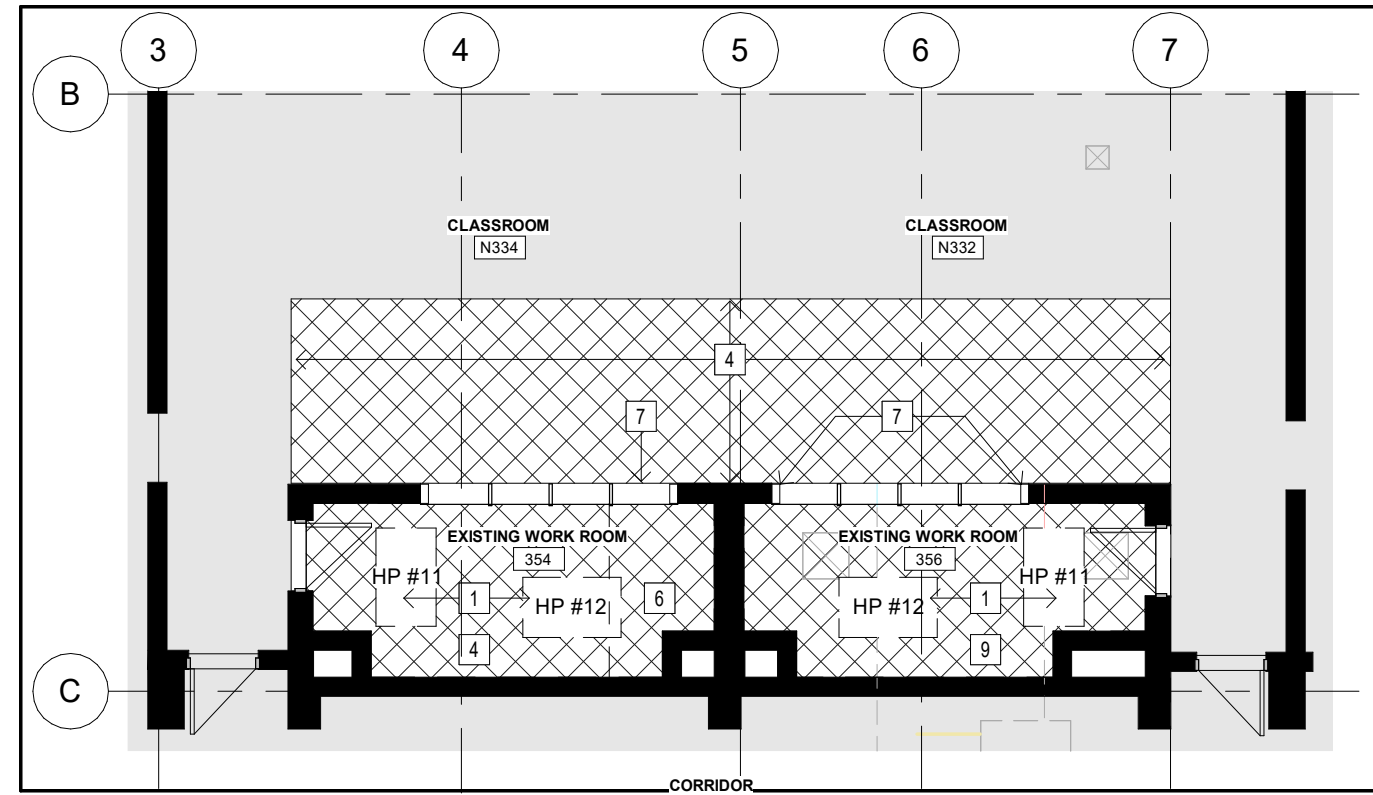
A003

DEMOLITION NOTES

- 1 REMOVE, REPLACE AND RELOCATE EXISTING HEAT PUMP AND EXTEND DUCTS AS REQ'D. REFER TO MECHANICAL DRAWINGS.
- 2 REMOVE AND DISPOSE OF EXISTING HEAT PUMP AND TERMINATE UNUSED DUCTS AS REQ'D. REFER TO MECHANICAL DRAWINGS.
- 3 REMOVE AND REPLACE EXISTING HEAT PUMP. REFER TO MECHANICAL DRAWINGS. PREPARE DUCTS AND ELECTRICAL WIRING TO ACCOMMODATE NEWLY INSTALLED UNITS.
- 4 REMOVE AND STORE CEILING TILES, T-BAR AND LIGHTING AS REQ'D. TO BE RE-INSTATED UPON COMPLETION OF MECH./ELEC. WORK. PATCH AND MAKE GOOD ADJACENT SURFACES AFFECTED BY WORK. PROVIDE NEW CEILING TILES OR LIGHT FIXTURES TO MATCH EXISTING WHERE DAMAGED BY WORK.
- 5 REMOVE AND DISPOSE OF EXISTING CEILING TILES AND T-BAR. NEW MATCHING CEILING TILES AND T-BAR TO BE INSTATED UPON COMPLETION OF MECH./ELEC. WORK. PATCH AND MAKE GOOD ADJACENT SURFACES AFFECTED BY WORK.
- 6 FLOORING FINISH TO RECEIVE NEOPRENE ISOLATORS FOR HEAT PUMP INSTALLATION.
- 7 SURFACE PREP AND CLEAN WINDOW GLAZING FROM ANY DIRT PRIOR TO INSTALLATION OF FROSTED FILMS.
- 8 REMOVE EXISTING GYPSUM CEILING AND METAL FURRING AS REQ'D. DEMOLISHED AREAS OF CEILING TO BE REPLACED UPON COMPLETION OF MECH./ELEC. WORK. PATCH AND MAKE GOOD ALL SURFACES AFFECTED BY WORK. PRIME AND PAINT AFFECTED AREAS WITH MATCHING COLORS TO EXISTING.
- 9 REMOVE AND DISPOSE OF EXISTING CEILING TILES AND T-BAR COMPLETE. PATCH AND MAKE GOOD ADJACENT SURFACES AFFECTED BY WORK.

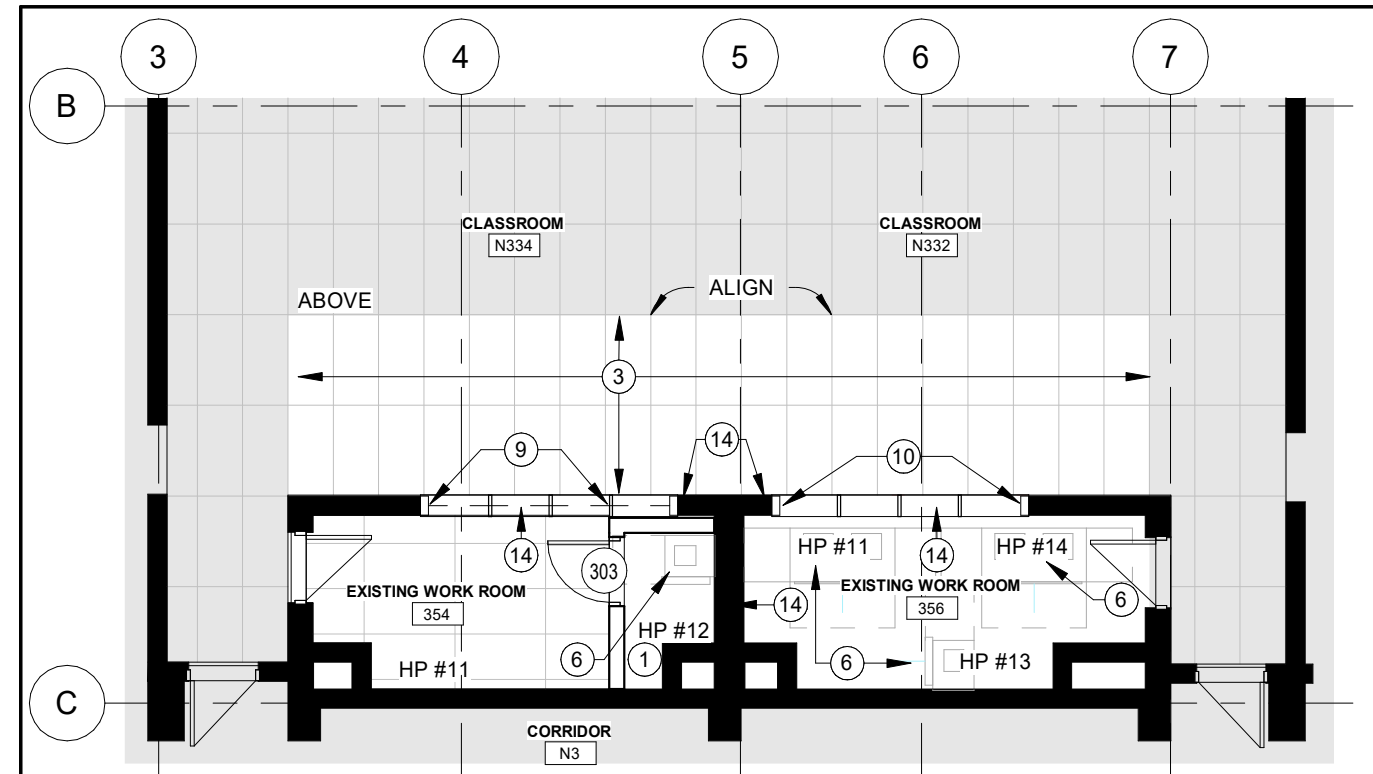
DRAWING NOTES:

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- 2 REMOVE AND DISPOSE OF EXISTING CEILING TILES AND T-BAR SUSPENSION SYSTEM. COMPLETE MECHANICAL AND ELECTRICAL WORK AND INSTALL NEW ACOUSTIC CEILING TILES AND T-BAR TO MATCH EXISTING. REFER TO REFLECTED CEILING PLAN AND ELECTRICAL DRAWINGS.
- 3 REMOVE AND RE-STALL EXISTING ACOUSTIC CEILING TILE AND T-BAR SUSPENSION SYSTEM AS REQUIRED TO ACCOMMODATE FOR NEW WALLS AND COMPLETED MECH./ELEC. WORK. RE-STALL UPON COMPLETION OF WORK AND REPLACE ANY DAMAGED TILES, T-BARS OR LIGHT FIXTURES WITH NEW TO MATCH EXISTING AS REQUIRED.
- 4 INSTALL NEW GYPSUM STUD WALLS. REFER TO WALL ASSEMBLY FOR COMPOSITION, REWORK CEILING AND BULKHEAD AS REQUIRED. PATCH AND MAKE GOOD TO ACCOMMODATE NEWLY INSTALLED HOLLOW METAL DOORS AND THRESHOLDS WHERE INDICATED ON MECHANICAL DRAWINGS. PRIME AND PAINT WALLS TO MATCH EXISTING ADJACENT WALLS.
- 5 ALL NEW WALLS TO INCLUDE BASE BOARDS ON THE EXTERIOR SIDE TO MATCH EXISTING.
- 6 REPLACE EXISTING CEILING HEAT PUMP AND RELOCATE TO FLOOR MOUNTING. EXTEND DUCTS AND TERMINATE UNUSED DUCTS AS REQ'D. REWORK CEILING OUTSIDE THE MECHANICAL ENCLOSURES TO MATCH EXISTING. REFER TO MECHANICAL DRAWINGS FOR REPLACEMENT AND FURTHER NOTES.
- 7 REPLACE EXISTING CEILING HEAT PUMP WITH NEW UNITS. REFER TO MECHANICAL, REWORK DUCTS, CEILING TILES AND GRID AS REQUIRED. PATCH AND MAKE GOOD TO ACCOMMODATE NEWLY INSTALLED SPRINKLER SYSTEMS, ENSURING NO DAMAGE AND CONFIRM PROPER FUNCTIONALITY. CONTRACTOR TO BARE RESPONSIBILITY FOR ANY DAMAGE OCCURS DURING CONSTRUCTION.
- 8 INFILL WALL OPENINGS WHERE EXISTING DUCTING IS BEING REMOVED. OPENINGS TO BE INFILLED WITH INSULATED STEEL STUD AND GIB ASSEMBLY, PRIMED AND PAINTED TO MATCH EXISTING COLOUR AND FINISH. FOR AREAS THAT ARE STILL VISIBLE (NOT CONCEALED ABOVE CEILING SPACE).
- 9 EXISTING PORTION OF WINDOW GLAZING TO REMAIN UNFROSTED.
- 10 INSTALL FROSTED FILM TO EXISTING WINDOW GLAZING.
- 11 ALLOW FOR REPAIR AND PATCHING OF GYPSUM BOARD CEILING IN THE EVENT OF FINISH DAMAGE DUE TO HEAT PUMP AND DUCTING INSTALLATION. CEILING AND ALL SERVICES INCLUDING DUCTING, PIPING AND CONDUITS TO BE PAINTED TO MATCH EXISTING FINISH.
- 12 REPLACE EXISTING EXPOSED BELOW CEILING HEAT PUMPS. PATCH AND MAKE GOOD ANY DISTURBED SURFACES.
- 13 EXISTING HEAT PUMP TO REMAIN UNDISTURBED.
- 14 CUT OPENINGS THROUGH EXISTING WALL ASSEMBLY AS REQUIRED TO ACCOMMODATE NEW DUCTING. REFER TO MECHANICAL DRAWINGS. PATCH AND MAKE GOOD. PRIME AND PAINT TO MATCH EXISTING COLOUR AND FINISH. FOR AREAS THAT ARE STILL VISIBLE (NOT CONCEALED ABOVE CEILING SPACE).
- 15 REPAIR AND PATCH EXISTING WALLS TO ACCOMMODATE FOR THERMOSTAT CONNECTIONS. PRIME AND PAINT TO MATCH EXISTING COLOUR AND FINISH. REFER TO MECHANICAL DRAWINGS.



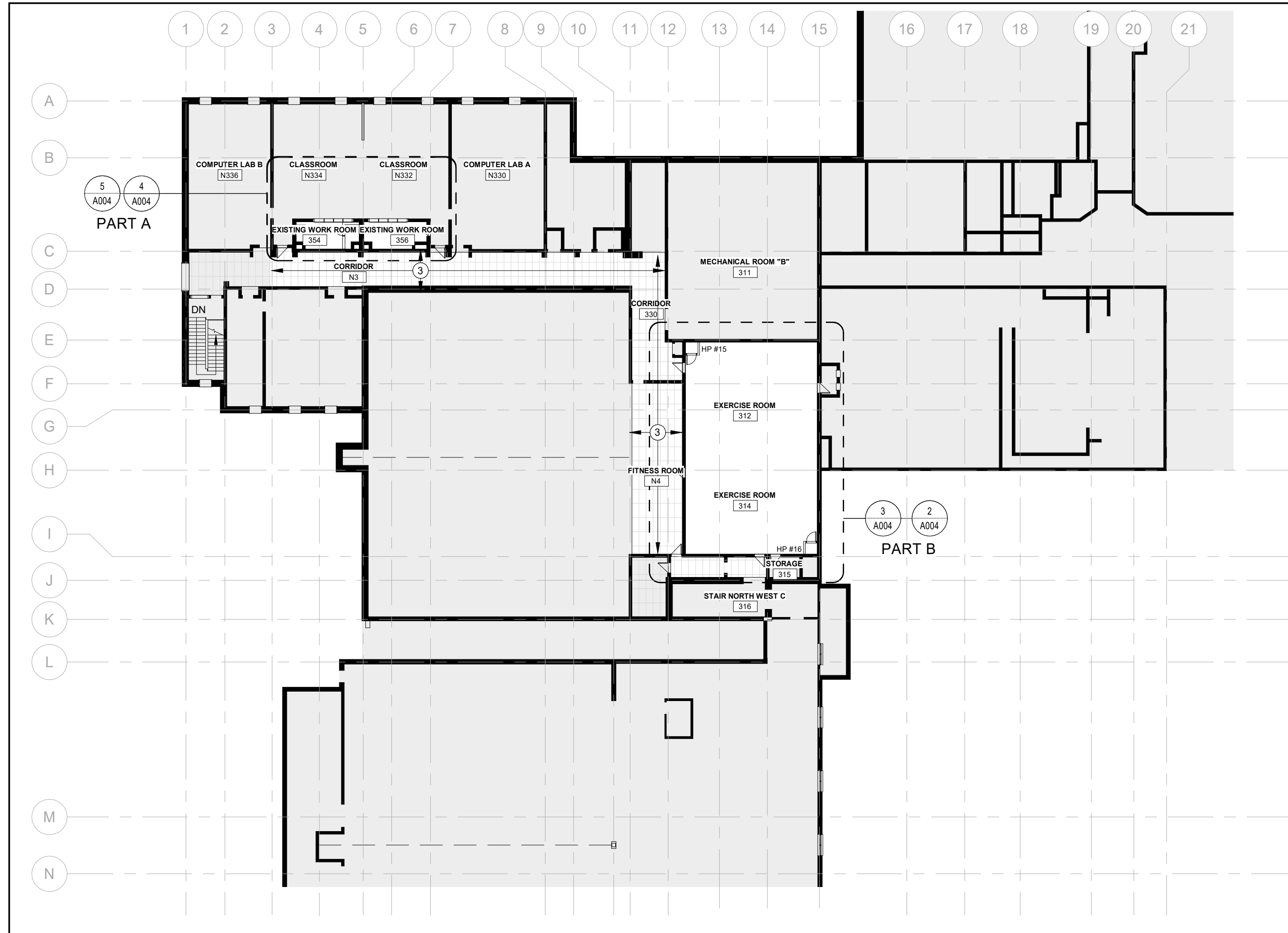
4 PARTIAL DEMOLITION FLOOR PLAN LEVEL 03 - PART A

A004 Scale: 1 : 100



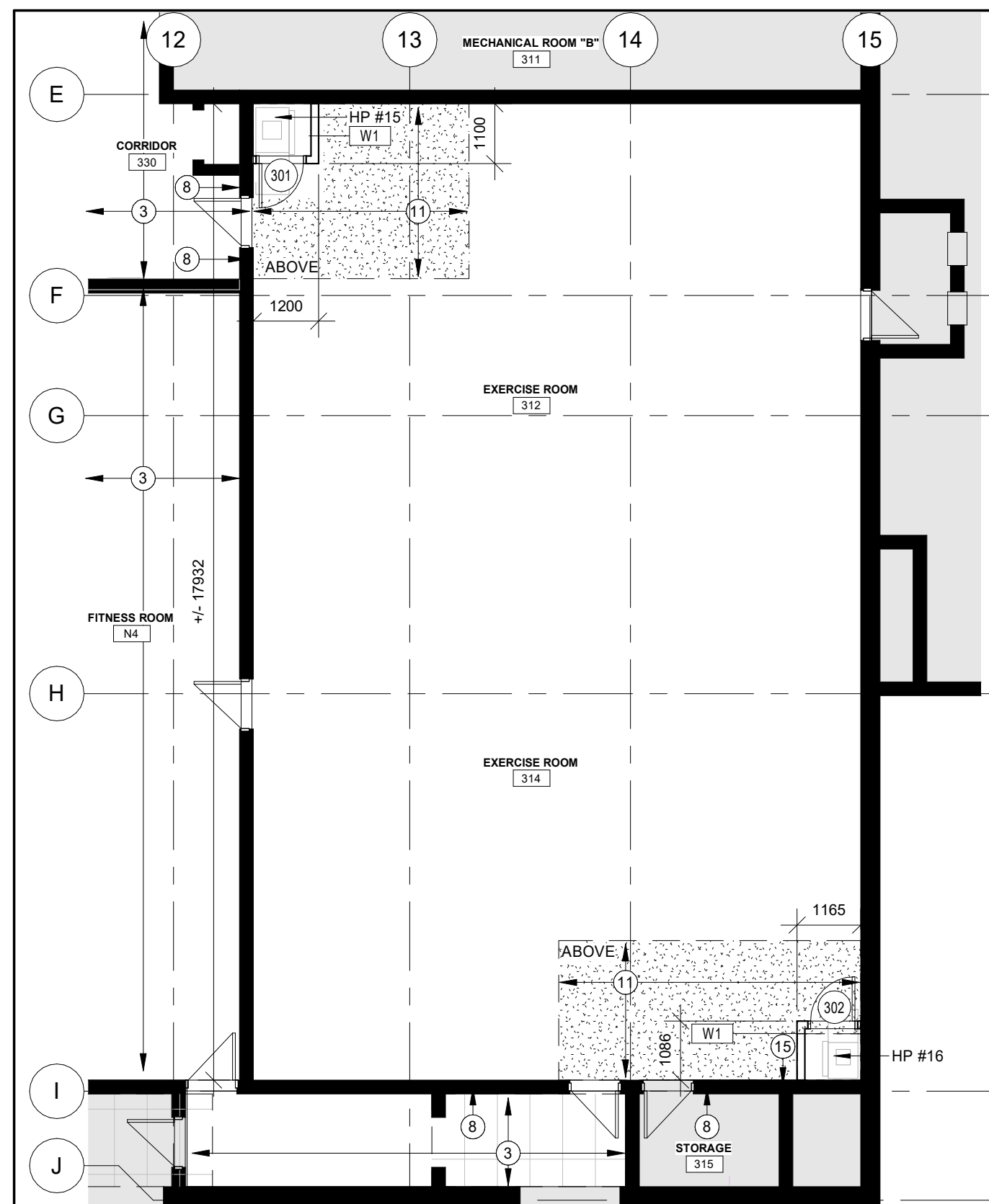
5 PARTIAL FLOOR PLAN LEVEL 03 - PART A

A004 Scale: 1 : 100



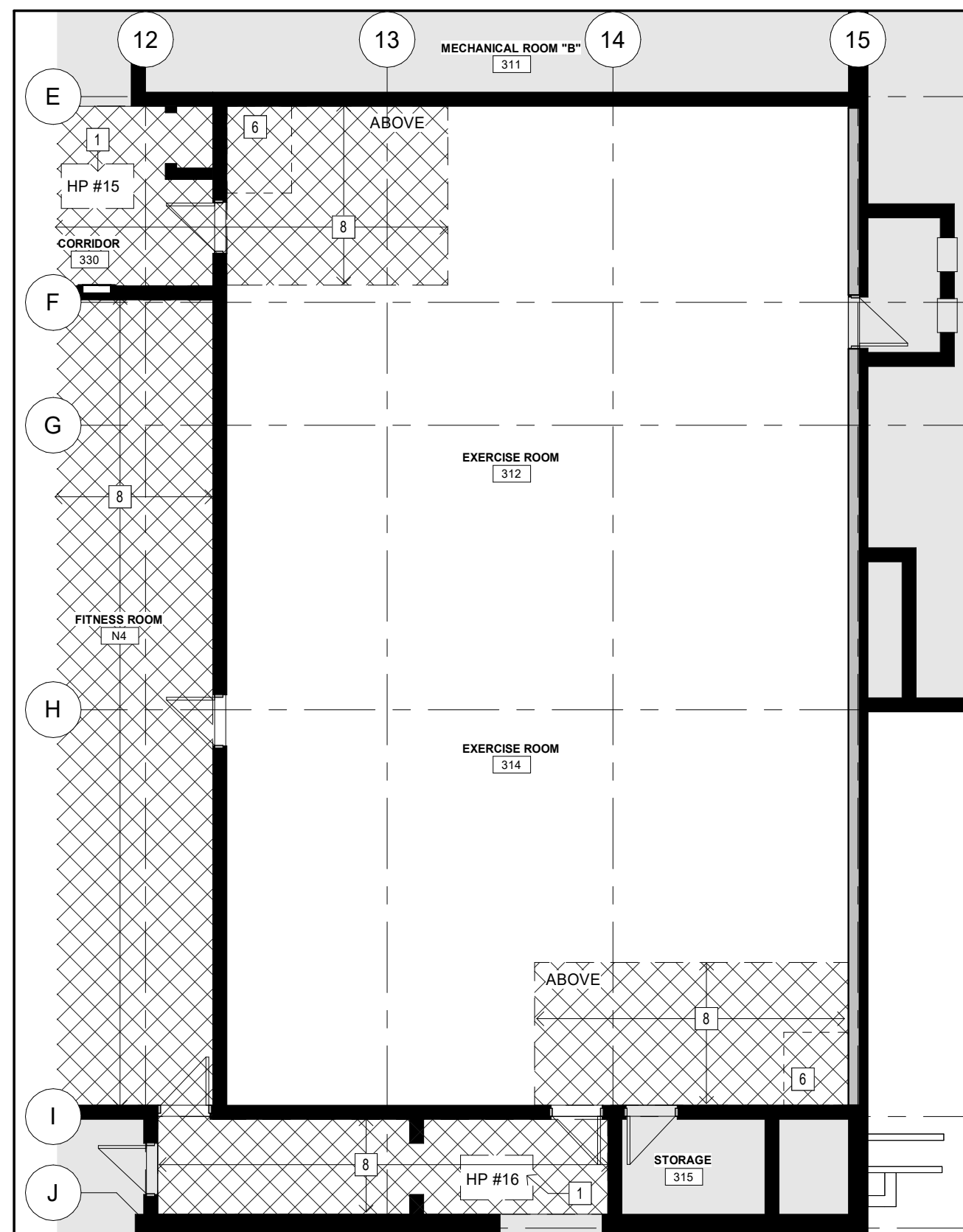
1 OVERALL FLOOR PLAN LEVEL 03- WING B

A004 Scale: 1 : 100



3 PARTIAL FLOOR PLAN LEVEL 03 - PART B

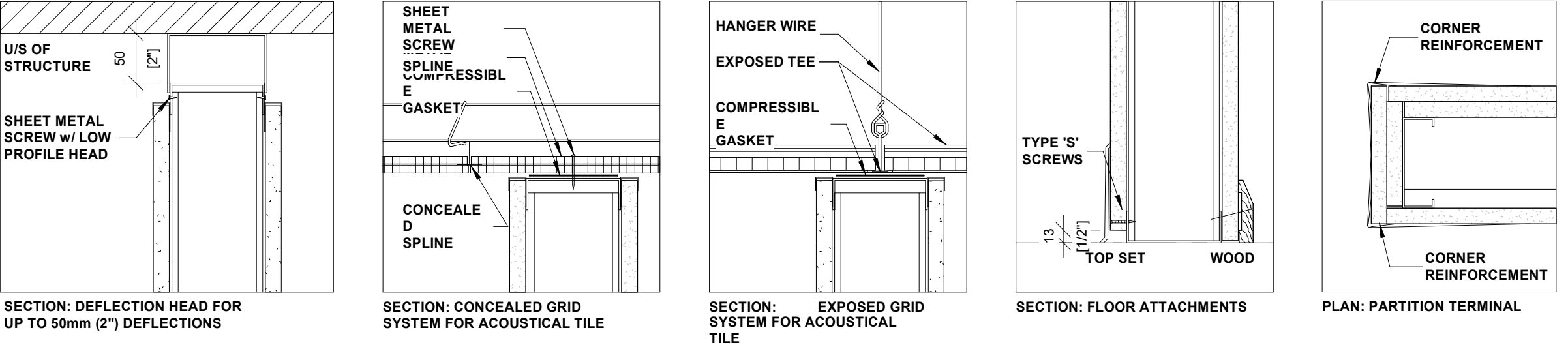
A004 Scale: 1 : 100



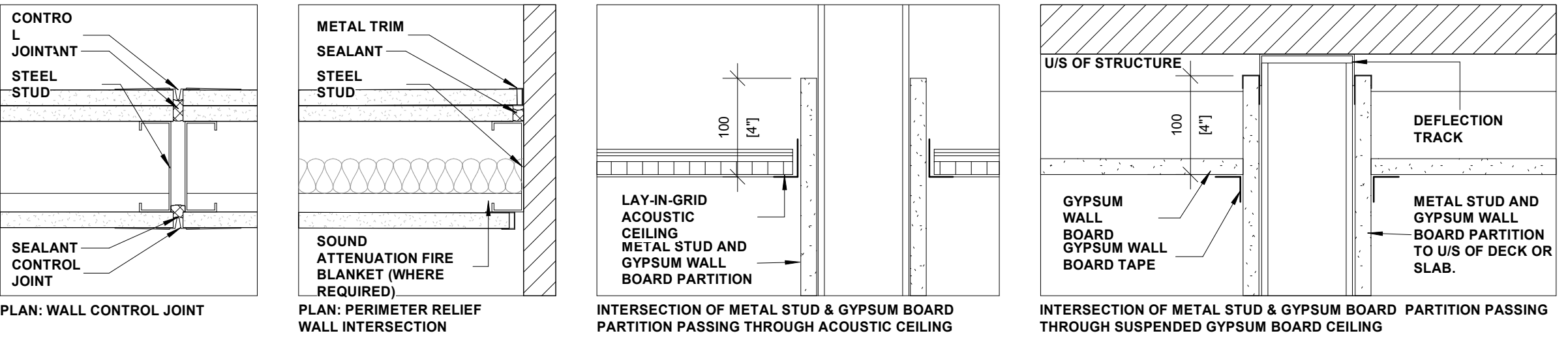
2 PARTIAL DEMOLITION FLOOR PLAN LEVEL 03 - PART B

A004 Scale: 1 : 100

CEILING ATTACHMENTS



TILE & BOARD



6 GYPSUM BOARD TYPICAL DETAILS

A004 Scale: 1 : 5

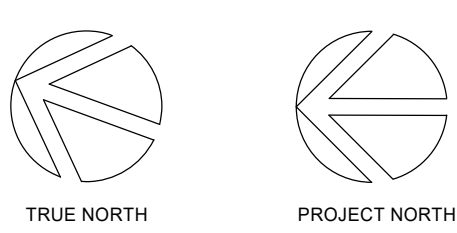
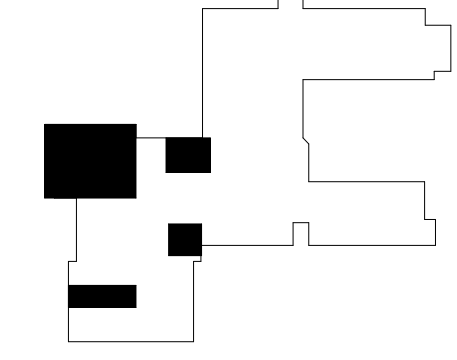
FLOOR PLAN LEGEND:

- 1 DEMOLITION NOTE SYMBOL
- ① RENOVATION NOTE SYMBOL
- DOOR, FRAME/SIDELIGHT TO BE REMOVED. REFER TO DEMOLITION NOTES FOR SPECIFIC SCOPE.
- WALL ASSEMBLY TO BE REMOVED. REFER TO DEMOLITION NOTES FOR SPECIFIC SCOPE.
- DENOTES EXISTING DOOR TO REMAIN UNDISTURBED.
- DENOTES EXISTING WALL TO REMAIN.
- HATCH DENOTES AREA NOT IN SCOPE OF ARCHITECTURAL WORK - TYPICAL
- HATCHED AREA DENOTES APPROX. AREA OF CEILING REMOVAL OR REWORK TO ACCOMMODATE MECH./ELEC./STRUC. WORK. REFER TO DEMOLITION NOTES. FINAL REMOVAL EXTENTS TO BE COORDINATED ON SITE.
- CEILING TILES:** REMOVE AND STORE CEILING TILE AND GRID AS REQ'D. TO BE RE-INSTATED UPON COMPLETION OF MECH./ELEC./STRUC. WORK. PATCH AND MAKE GOOD ADJACENT SURFACES AFFECTED BY WORK. PROVIDE NEW CEILING TILES TO MATCH EXISTING WHERE DAMAGED BY WORK.
- GYPSUM/PLASTER:** CAREFULLY REMOVE AS REQ'D. PROTECT ADJACENT SURFACES AND FINISHES. PATCH AND MAKE GOOD ADJACENT SURFACES AFFECTED BY WORK. PROVIDE NEW GYPSUM CEILING C/W STUD SUPPORT AT AREAS OF REMOVAL. PRIME AND PAINT TO MATCH EXISTING ADJACENT.

CLIENT LOGO



KEYPLAN



No.	ISSUANCE	DATE
1	ISSUED FOR 60% OWNER REVIEW	2024-01-25
2	ISSUED FOR 90% OWNER REVIEW	2024-02-21
3	ISSUED FOR BID AND PERMIT	2024-02-28

CLIENT
WATERLOO REGIONAL DISTRICT SCHOOL BOARD
51 Ardelt Avenue, Kitchener, ON N2C 2R5

PROJECT
JACOB HESPELER SS HEAT PUMP REPLACEMENT
355 Holiday Inn Dr, Cambridge, ON N3C 1Z2

TITLE
FLOOR PLAN AND DETAILS- LEVEL 03-WING B

WALTERFEDY
KITCHENER | HAMILTON | TORONTO
800.685.1378 walterfedycan.com



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SCALE: SHEET NO:
DATE: 2024.02.28
PROJECT NO: 2021-0807-12
DRAWN BY: HA
CHECKED BY: MM

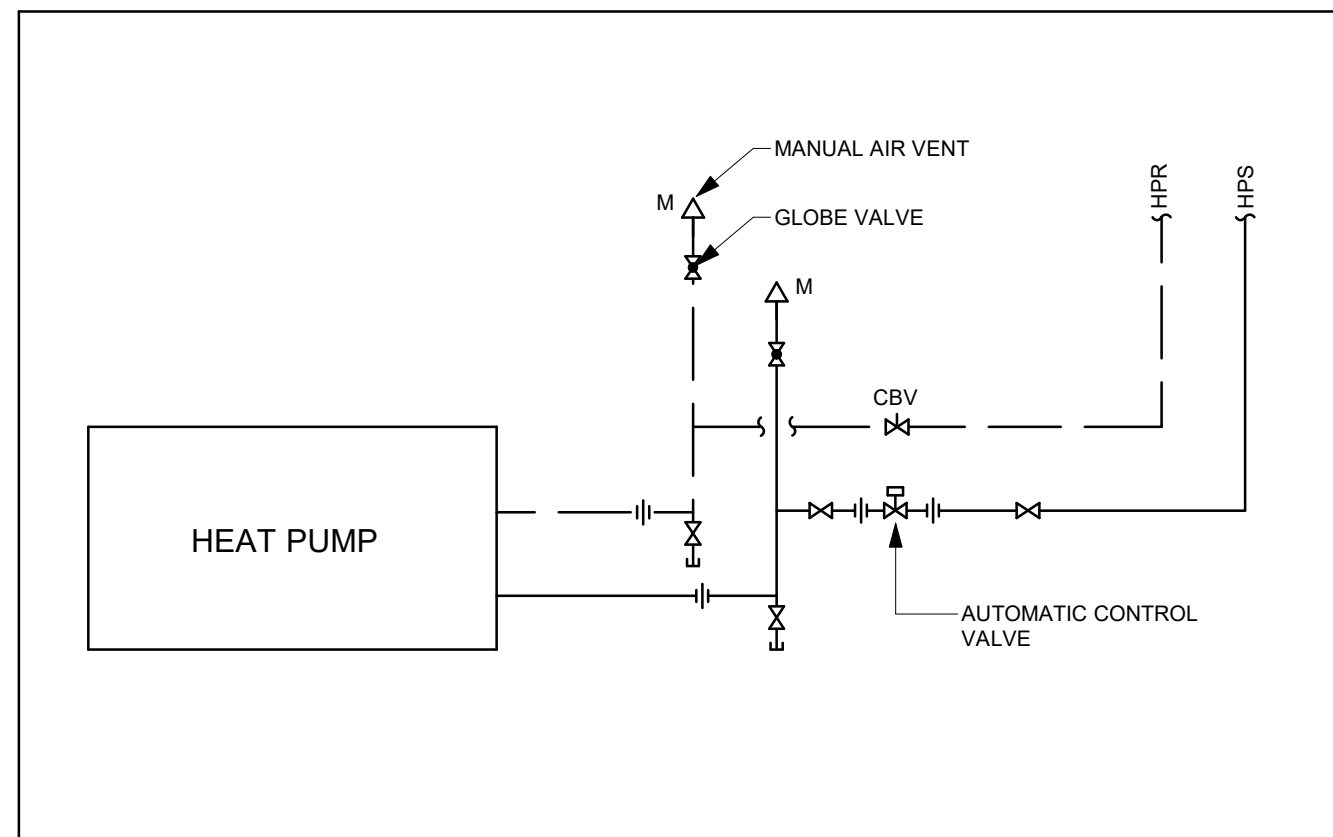
A004



WATER SOURCE HEAT PUMP SCHEDULE																															
TAG #	MANUFACTURER	MODEL	FAN		ELECTRICAL					OUTDOOR AIR FLOW	FILTER	COOLING					HEATING					DIMENSIONS			REMARKS						
			AIR FLOW	ESP	MCA	MOCF	V	Ph	H _z			TYPE / EFF.	EWT	LWT	EAT DB	EAT WB	LAT DB	LAT WB	FPD	TOTAL COOLING CAPACITY	EWT	LWT	EAT DB	LAT DB		FPD	TOTAL HEATING CAPACITY	L	W	H	WEIGHT
HP-1	DAIKIN	WGCH024	383 L/s	125.0 Pa	20	30	208	1	60	85 L/s	MERV 8	32.2 °C	37.8 °C	26.7 °C	19.4 °C	15.9 °C	14.3 °C	13.7 °C	2.6 kPa	18.3 kW	12.8 °C	9.4 °C	21.1 °C	36.2 °C	2.8 kPa	7.9 kW	1064 mm	439 mm	506 mm	82.8 kg	2-STAGE HEAT PUMP
HP-3	DAIKIN	WGTV0641	945 L/s	125.0 Pa	43	60	208	1	60	215 L/s	MERV 8	32.2 °C	37.8 °C	26.7 °C	19.4 °C	14.9 °C	13.7 °C	29.6 kPa	18.3 kW	12.8 °C	9.9 °C	21.1 °C	37.8 °C	30.0 kPa	19.2 kW	826 mm	635 mm	1486 mm	213.0 kg	2-STAGE HEAT PUMP	
HP-4	OMEGA	VSHV-080	368 L/s	125.0 Pa	18	25	208	1	60	70 L/s	MERV 8	32.2 °C	37.4 °C	26.7 °C	19.4 °C	16.4 °C	15.0 °C	28.1 kPa	6.5 kW	12.8 °C	9.7 °C	21.1 °C	36.2 °C	28.1 kPa	8.2 kW	622 mm	559 mm	3175 mm	101.2 kg		
HP-5	DAIKIN	WGTV0641	945 L/s	125.0 Pa	43	60	208	1	60	215 L/s	MERV 8	32.2 °C	37.8 °C	26.7 °C	19.4 °C	14.9 °C	13.7 °C	29.6 kPa	18.3 kW	12.8 °C	9.0 °C	21.1 °C	37.8 °C	30.0 kPa	19.2 kW	826 mm	635 mm	1486 mm	213.0 kg	2-STAGE HEAT PUMP	
HP-7	OMEGA	VSHV-080	368 L/s	125.0 Pa	18	25	208	1	60	85 L/s	MERV 8	32.2 °C	37.4 °C	26.7 °C	19.4 °C	16.4 °C	15.0 °C	28.1 kPa	6.5 kW	12.8 °C	9.7 °C	21.1 °C	36.2 °C	28.1 kPa	8.2 kW	622 mm	559 mm	3175 mm	101.2 kg		
HP-8	OMEGA	VSHV-080	368 L/s	125.0 Pa	18	25	208	1	60	85 L/s	MERV 8	32.2 °C	37.4 °C	26.7 °C	19.4 °C	16.4 °C	15.0 °C	28.1 kPa	6.5 kW	12.8 °C	9.7 °C	21.1 °C	36.2 °C	28.1 kPa	8.2 kW	622 mm	559 mm	3175 mm	101.2 kg		
HP-10	OMEGA	VSHV-080	368 L/s	125.0 Pa	18	25	208	1	60	85 L/s	MERV 8	32.2 °C	37.4 °C	26.7 °C	19.4 °C	16.4 °C	15.0 °C	28.1 kPa	6.5 kW	12.8 °C	9.7 °C	21.1 °C	36.2 °C	28.1 kPa	8.2 kW	622 mm	559 mm	3175 mm	101.2 kg		
HP-11	DAIKIN	WLWV1096	1130 L/s	300.0 Pa	36	45	208	3	60	215 L/s	MERV 8	32.2 °C	37.1 °C	26.7 °C	19.4 °C	15.1 °C	13.1 °C	3.3 kPa	24.1 kW	12.8 °C	9.5 °C	21.1 °C	40.7 °C	3.3 kPa	26.8 kW	711 mm	1387 mm	1417 mm	267.0 kg		
HP-12	DAIKIN	WGTV0441	660 L/s	125.0 Pa	25	35	208	3	60	215 L/s	MERV 8	32.2 °C	37.9 °C	26.7 °C	19.4 °C	15.0 °C	13.7 °C	14.3 kPa	12.9 kW	12.8 °C	9.1 °C	21.1 °C	37.3 °C	14.5 kPa	12.9 kW	826 mm	635 mm	1384 mm	159.0 kg	2-STAGE HEAT PUMP	
HP-13	DAIKIN	WGTV0441	660 L/s	125.0 Pa	25	35	208	3	60	215 L/s	MERV 8	32.2 °C	37.9 °C	26.7 °C	19.4 °C	15.0 °C	13.7 °C	14.3 kPa	12.9 kW	12.8 °C	9.1 °C	21.1 °C	37.3 °C	14.5 kPa	12.9 kW	826 mm	635 mm	1384 mm	159.0 kg	2-STAGE HEAT PUMP	
HP-14	DAIKIN	WLWV1096	1096 L/s	300.0 Pa	36	45	208	3	60	215 L/s	MERV 8	32.2 °C	37.1 °C	26.7 °C	19.4 °C	15.1 °C	13.1 °C	3.3 kPa	24.1 kW	12.8 °C	9.5 °C	21.1 °C	40.7 °C	3.3 kPa	26.8 kW	711 mm	1387 mm	1417 mm	267.0 kg		
HP-15	DAIKIN	WGTV0641	945 L/s	125.0 Pa	43	60	208	1	60	215 L/s	MERV 8	32.2 °C	37.8 °C	26.7 °C	19.4 °C	14.9 °C	13.7 °C	29.6 kPa	18.3 kW	12.8 °C	9.9 °C	21.1 °C	37.8 °C	30.0 kPa	19.2 kW	826 mm	635 mm	1486 mm	213.0 kg	2-STAGE HEAT PUMP	
HP-16	DAIKIN	WGTV0441	660 L/s	125.0 Pa	25	35	208	3	60	215 L/s	MERV 8	32.2 °C	37.9 °C	26.7 °C	19.4 °C	15.0 °C	13.7 °C	14.3 kPa	12.9 kW	12.8 °C	9.1 °C	21.1 °C	37.3 °C	14.5 kPa	12.9 kW	826 mm	635 mm	1384 mm	159.0 kg	2-STAGE HEAT PUMP	
HP-18	DAIKIN	WGCH024	383 L/s	125.0 Pa	8	15	208	1	60	50 L/s	MERV 8	32.2 °C	37.4 °C	26.7 °C	19.4 °C	15.1 °C	13.6 °C	1.3 kPa	3.2 kW	12.8 °C	9.4 °C	21.1 °C	39.9 °C	1.4 kPa	3.7 kW	861 mm	480 mm	292 mm	47.2 kg		
HP-22	DAIKIN	WGDH048	755 L/s	125.0 Pa	23	35	208	3	60	95 L/s	MERV 8	32.2 °C	37.6 °C	26.7 °C	19.4 °C	15.3 °C	14.2 °C	32.4 kPa	13.5 kW	12.8 °C	9.2 °C	21.1 °C	37.6 °C	32.8 kPa	15.1 kW	1369 mm	607 mm	533 mm	134.3 kg	2-STAGE HEAT PUMP	

RETURN GRILLE SCHEDULE								
TAG	MANUFACTURER	MODEL	MOUNTING	OVERALL SIZE		DUCT SIZE		REMARKS
				H	W	H	W	
R1	KRUEGER	EGC5	CEILING	306 mm	306 mm	300 mm	300 mm	ALUMINUM EGG-CRATE RETURN GRILLE WITH 12.7x12.7x12.7mm GRID AND CHANNEL FRAM

SUPPLY DIFFUSER SCHEDULE							
TAG	MANUFACTURER & MODEL	MOUNTING	NECK SIZE		OVERALL SIZE		REMARKS
			H	W	H	W	
S1	KRUEGER 880	CEILING	150 mm	150 mm	195 mm	195 mm	ALUMINUM CONSTRUCTION, DOUBLE DEFLECTION, 1/2 IN. BLADE SPACING
S2	KRUEGER 880	CEILING	200 mm	150 mm	245 mm	195 mm	ALUMINUM CONSTRUCTION, DOUBLE DEFLECTION, 1/2 IN. BLADE SPACING
S3	KRUEGER 880	CEILING	250 mm	250 mm	295 mm	295 mm	ALUMINUM CONSTRUCTION, DOUBLE DEFLECTION, 1/2 IN. BLADE SPACING



1 M001 HEAT PUMP PIPING DETAIL
N.T.S.

GENERAL DRAWING NOTES

- A DRAWINGS ARE GENERALLY DIAGRAMATIC. CONTRACTOR IS RESPONSIBLE FOR LAYING OUT MATERIAL IN CONJUNCTION WITH THE INTENT OF THESE DRAWINGS.
- B DRAWINGS ARE TO BE INTERPRETED IN CONJUNCTION WITH ALL OTHER DISCIPLINE DRAWINGS AND SPECIFICATIONS.
- C SYSTEMS CONNECT TO EXISTING SERVICES. ALLOW FOR ADDITIONAL FITTINGS AND OFFSETS AS REQUIRED IN ORDER TO CONNECT TO EXISTING. ALSO, ALLOW FOR ADDITIONAL LABOUR AND MATERIAL IN ORDER TO ADJUST DESIGNS TO AVOID INTERFERENCE WITH EXISTING SERVICES.
- D TEMPORARY MEASURES SHALL BE DONE IN ORDER TO MAINTAIN SERVICES TO ALL OCCUPIED PORTIONS OF THE BUILDING DURING CONSTRUCTION. COORDINATE WITH THE OWNER FOR ANY REQUIRED SHUT-DOWNS, WHICH SHALL BE AFTER-HOURS OR WEEKENDS. PROVIDE TEMPORARY MATERIALS TO ALLOW FOR SWITCH-OVERS OR SHUT-DOWNS; TEMPORARY SERVICES MATERIAL AND INSTALLATION SHALL MEET THE SPECIFICATIONS UNLESS SPECIFICALLY APPROVED BY THE CONSULTANT.
- E WHERE DUCTWORK MODIFICATIONS ARE REQUIRED AND IMPACT EXISTING SYSTEMS, SYSTEMS ARE TO BE RE-BALANCED AS NOTED. WHERE AND IF REQUIRED DRIVES AND SHEAVES ARE TO BE REPLACED AS REQUIRED BY THE BALANCING CONTRACTOR.
- F DUCT ELBOWS TO BE FULL RADIUS OR WITH TURNING VANES. REFER TO SPECIFICATIONS.
- G DUCT TO DIFFUSER SHALL MATCH DIFFUSER NECK SIZE, UNLESS NOTED OTHERWISE.
- H FOR FLEXIBLE DUCTWORK TO CEILING MOUNTED DIFFUSER. REFER TO TYPICAL DIFFUSER DUCTING DETAIL.
- J CONTRACTOR IS TO REVIEW EXISTING EQUIPMENT CONNECTIONS AND LAYOUT BEFORE DEMOLITION. ANY EQUIPMENT TO BE RE-INSTALLED SHALL BE INSTALLED PER MANUFACTURERS WRITTEN INSTRUCTIONS AND APPLICABLE CODES.
- K FOR DUST CONTROL, CAP EXISTING DUCTS IN THE CONSTRUCTION AREA. CONNECTION TO EXISTING AIR DUCTS TO BE DONE AFTER COMPLETION OF ALL DUST PRODUCING TASKS.
- L RELOCATE OR REROUTE EXISTING MECHANICAL EQUIPMENT AS REQUIRED TO ACCOMMODATE THE SCOPE OF NEW WORK.
- M FIRE DAMPERS ARE REQUIRED TO BE INSTALLED ON NEW AND EXISTING DUCTS PASSING THROUGH RATED WALLS, CEILING AND FLOORS.
- N RUN PIPING AND DUCTWORK IN CEILING SPACE UNLESS OTHERWISE NOTED.
- P RUN DUCTWORK BETWEEN AND THROUGH JOISTS AS REQUIRED TO MAINTAIN EXISTING CEILING HEIGHTS. MODIFY/RE-INSTALL EXISTING JOIST BRIDGING AS REQUIRED.
- Q REMOVE AND REINSTALL EXISTING CEILINGS AS REQUIRED TO COMPLETE DEMOLITION AND NEW INSTALLATIONS.
- R ALL MATERIALS WITHIN RETURN AIR PLENUMS SHALL HAVE A FLAME-SPREAD RATING NOT MORE THAN 25 AND A SMOKE DEVELOPED CLASSIFICATION NOT MORE THAN 50.
- S COORDINATE LOCATION OF ACCESS DOORS IN GWB CEILINGS WITH OTHER TRADES. PROVIDE REFLECTED CEILING PLAN INDICATING LOCATIONS OF ALL ACCESS DOORS FOR APPROVAL PRIOR TO FINAL INSTALLATION.

MECHANICAL LEGEND	
	EXISTING DRAIN PIPING TO REMAIN
	DRAIN PIPING
	NON-POTABLE HOT WATER
	EXISTING HEAT PUMP WATER SUPPLY TO REMAIN
	HEAT PUMP WATER SUPPLY
	EXISTING HEAT PUMP WATER RETURN TO REMAIN
	HEAT PUMP WATER RETURN
	THERMOSTAT CONTROL WIRING
	EXISTING EQUIPMENT/DUCTWORK TO REMAIN
	EQUIPMENT/DUCTWORK
	EXISTING TO BE REMOVED
	CLEAN OUT
	DOOR GRILLE
	UNDERCUT
	OPEN ENDED DUCT
	SHUT-OFF VALVE
	CIRCUIT BALANCING VALVE
	ELECTRICALLY SUPERVISED VALVE
	ELECTRICALLY SUPERVISED 3-WAY VALVE
	3-WAY VALVE
	AUTOMATIC CONTROL VALVE (ACV)
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	STRAINER
	ELECTRIC 2-WAY VALVE
	AUTOMATIC AIR VENT
	CHECK VALVE
	UNION
	PRESSURE GAUGE
	TEMPERATURE GAUGE
	FLOW SWITCH
	INLINE PUMP
	FLOOR CLEAN OUTS
	CEILING CLEAN OUT
	CAP
	PIPING UP
	PIPING DOWN
	THERMOSTAT
	SUPPLY OR OUTDOOR AIR DUCTWORK
	RETURN OR EXHAUST AIR DUCTWORK
	FIRE DAMPER
	MANUAL BALANCING DAMPER
	TURNING VANES
	LITERS PER SECOND
	GRILLE DESIGNATION
	SUPPLY AIR GRILLE OR DIFFUSER
	RETURN OR EXHAUST AIR GRILLE
	CONNECT TO EXISTING

DRAWING LIST

SHEET NUMBER	SHEET NAME
M001	LEGEND, ROOM SCHEDULE AND DRAWING LIST
MD01	LEVEL 02 PLAN - DEMOLITION MECHANICAL LAYOUT
MD02	LEVEL 03 PLAN - DEMOLITION MECHANICAL LAYOUT
M101	LEVEL 02 PLAN - MECHANICAL LAYOUT
M102	LEVEL 03 PLAN - MECHANICAL LAYOUT
F101	LEVEL 02 PLAN - FIRE PROTECTION LAYOUT
F102	LEVEL 03 PLAN - FIRE PROTECTION LAYOUT

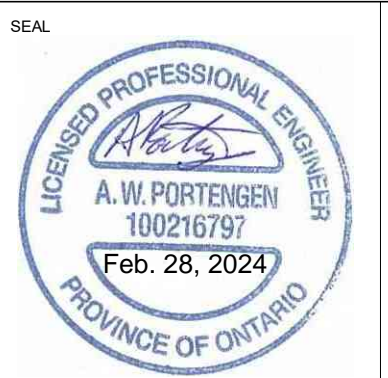
No.	ISSUANCE	DATE
1	ISSUED FOR 60% OWNER REVIEW	2024.01.25
2	ISSUED FOR 90% OWNER REVIEW	2024.02.21
3	ISSUED FOR BID AND PERMIT	2024.02.28

CLIENT
WATERLOO REGIONAL DISTRICT SCHOOL BOARD

PROJECT
JACOB HESPELER SS HEAT PUMP REPLACEMENT
355 Holiday Inn Dr, Cambridge, ON N3C 1Z2

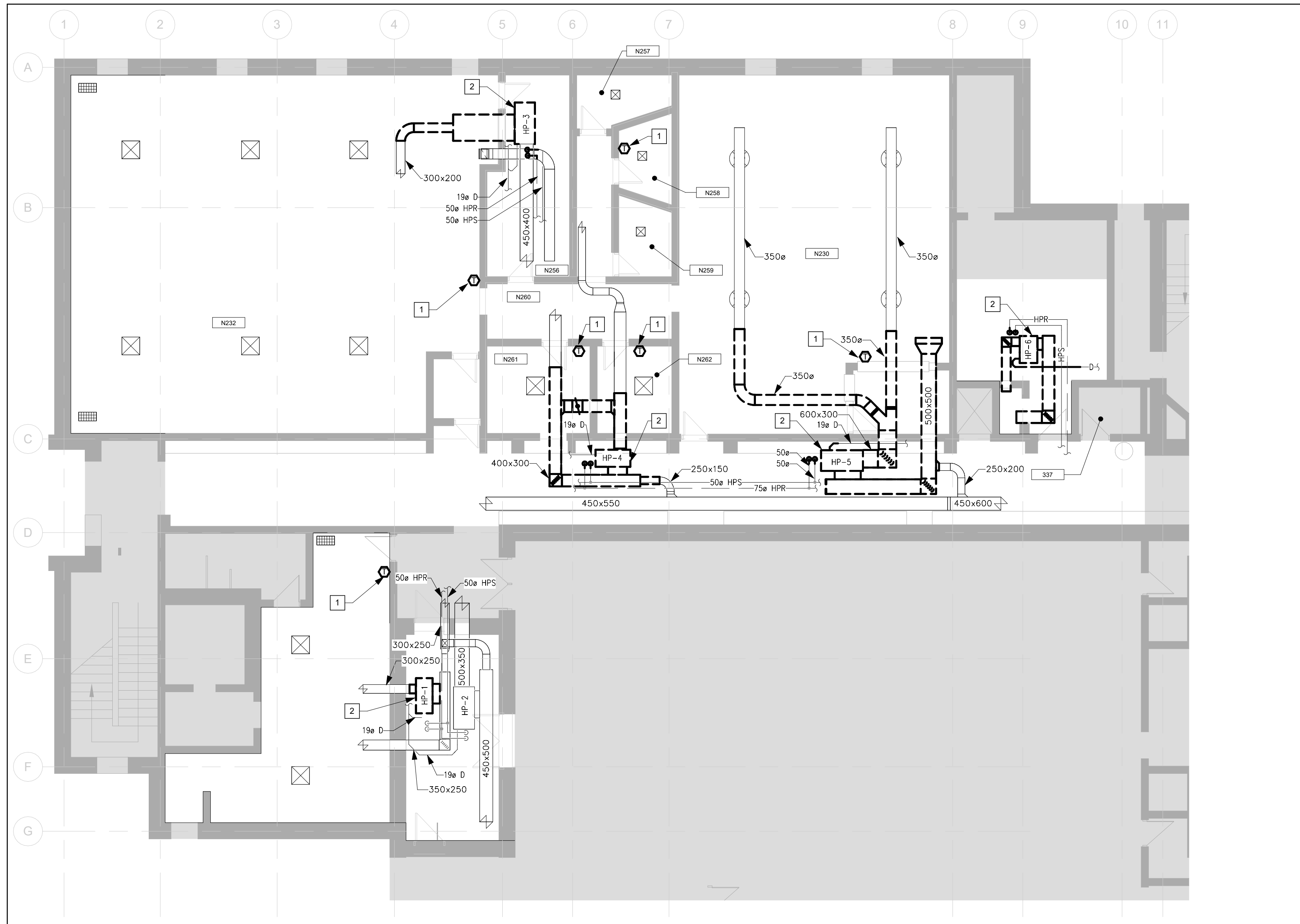
TITLE
LEGEND, ROOM SCHEDULE AND DRAWING LIST

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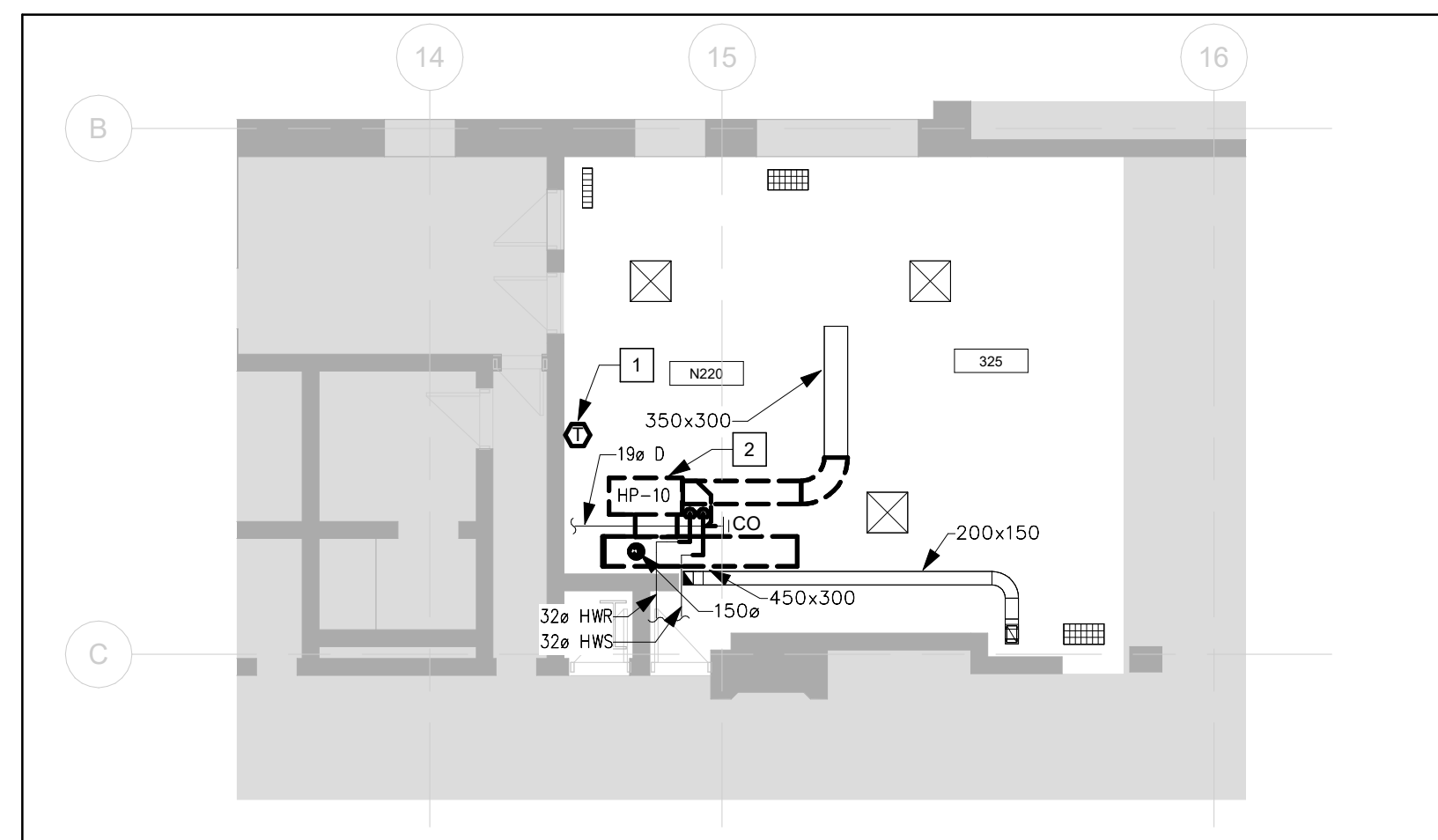
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SCALE:	As indicated	M001
DATE:	2024.02.28	
PROJECT NO:	2021-0807-12	
DRAWN BY:	DS	
CHECKED BY:	AP	



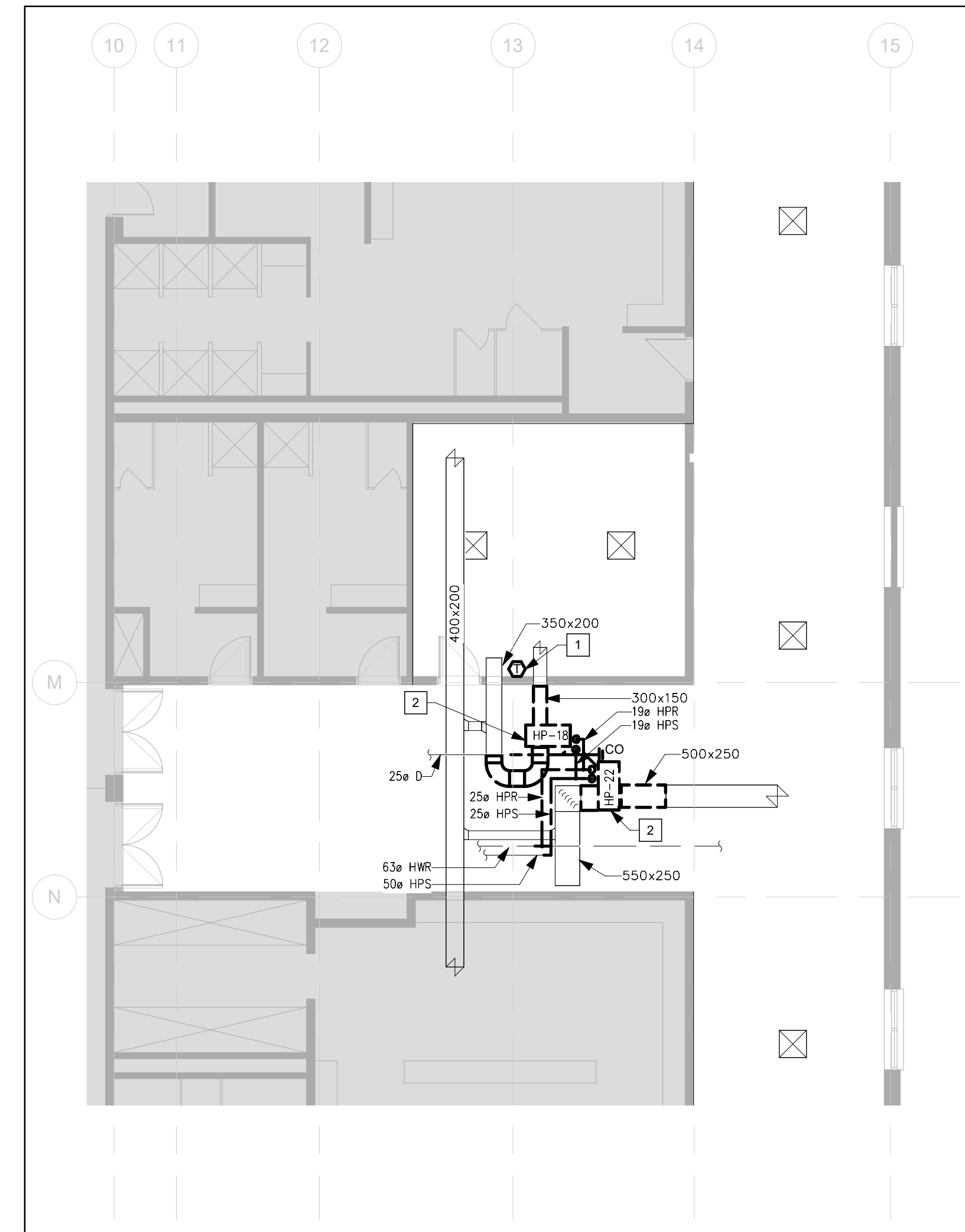
1 PARTIAL LEVEL 02 PLAN - DEMOLITION MECHANICAL LAYOUT
MD01 Scale: 1 : 100

DEMOLITION NOTES

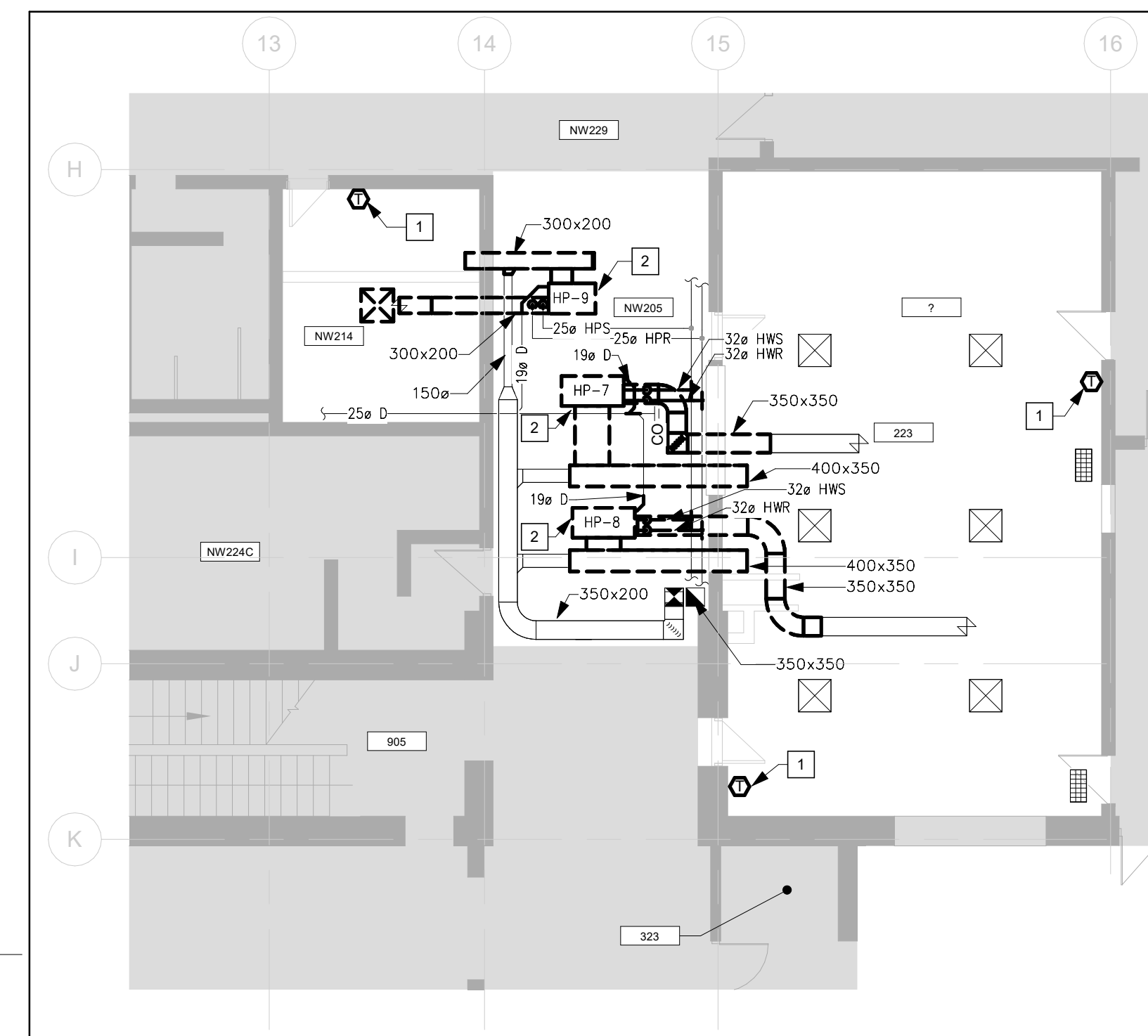
- 1 DEMOLISH EXISTING THERMOSTAT COMPLETE IN ALL RESPECTS. COORDINATE WALL REPAIR WITH OTHER TRADES.
- 2 DEMOLISH EXISTING HEAT PUMP. INCLUDE TEMPORARY REMOVAL OF ALL EXISTING SERVICES (PIPING, CEILING, CONDUIT, ETC.) TO ALLOW FOR DEMOLITION.



2 PARTIAL LEVEL 02 PLAN - DEMOLITION MECHANICAL LAYOUT
MD01 Scale: 1 : 100



3 PARTIAL LEVEL 02 PLAN - DEMOLITION MECHANICAL LAYOUT
MD01 Scale: 1 : 100

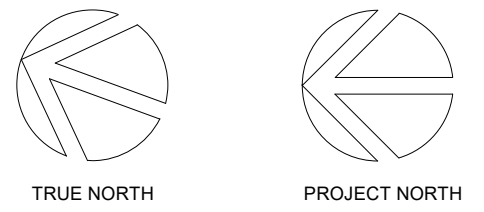
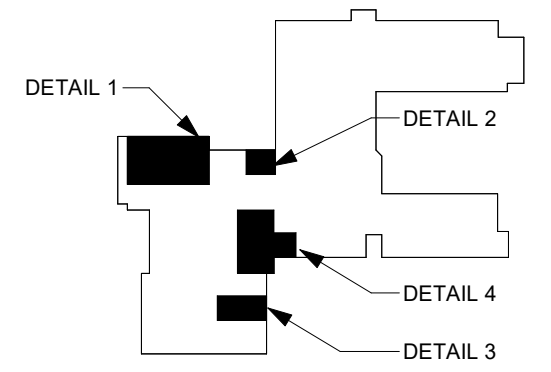


4 PARTIAL LEVEL 02 PLAN - DEMOLITION MECHANICAL LAYOUT
MD01 Scale: 1 : 100

CLIENT LOGO



KEYPLAN



No.	ISSUANCE	DATE
2	ISSUED FOR 90% OWNER REVIEW	2024.02.21
3	ISSUED FOR BID AND PERMIT	2024.02.28

CLIENT

WATERLOO REGIONAL DISTRICT SCHOOL BOARD

PROJECT

JACOB HESPELER SS HEAT PUMP REPLACEMENT
355 Holiday Inn Dr, Cambridge, ON N3C 1Z2

TITLE

LEVEL 02 PLAN - DEMOLITION MECHANICAL LAYOUT

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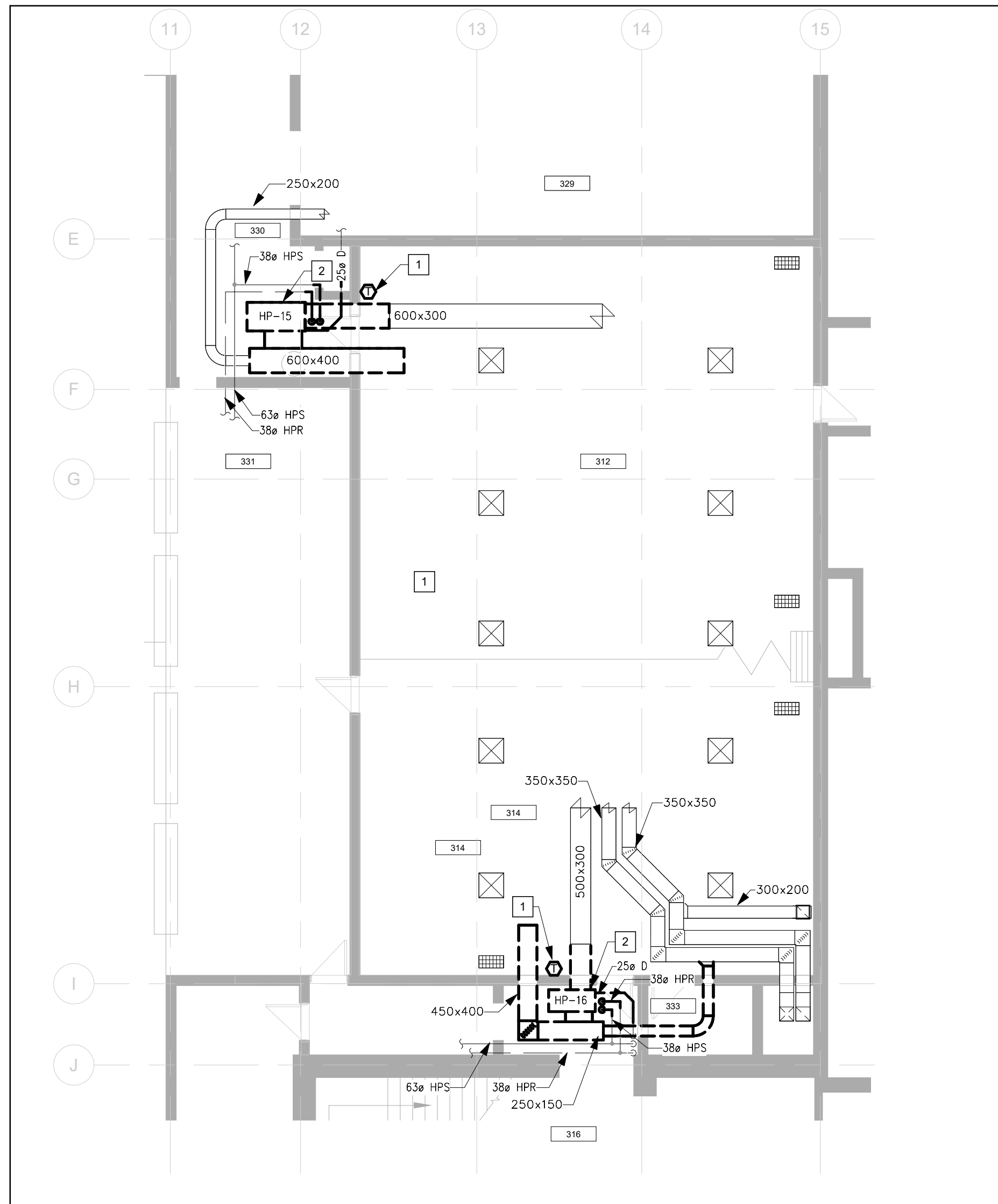
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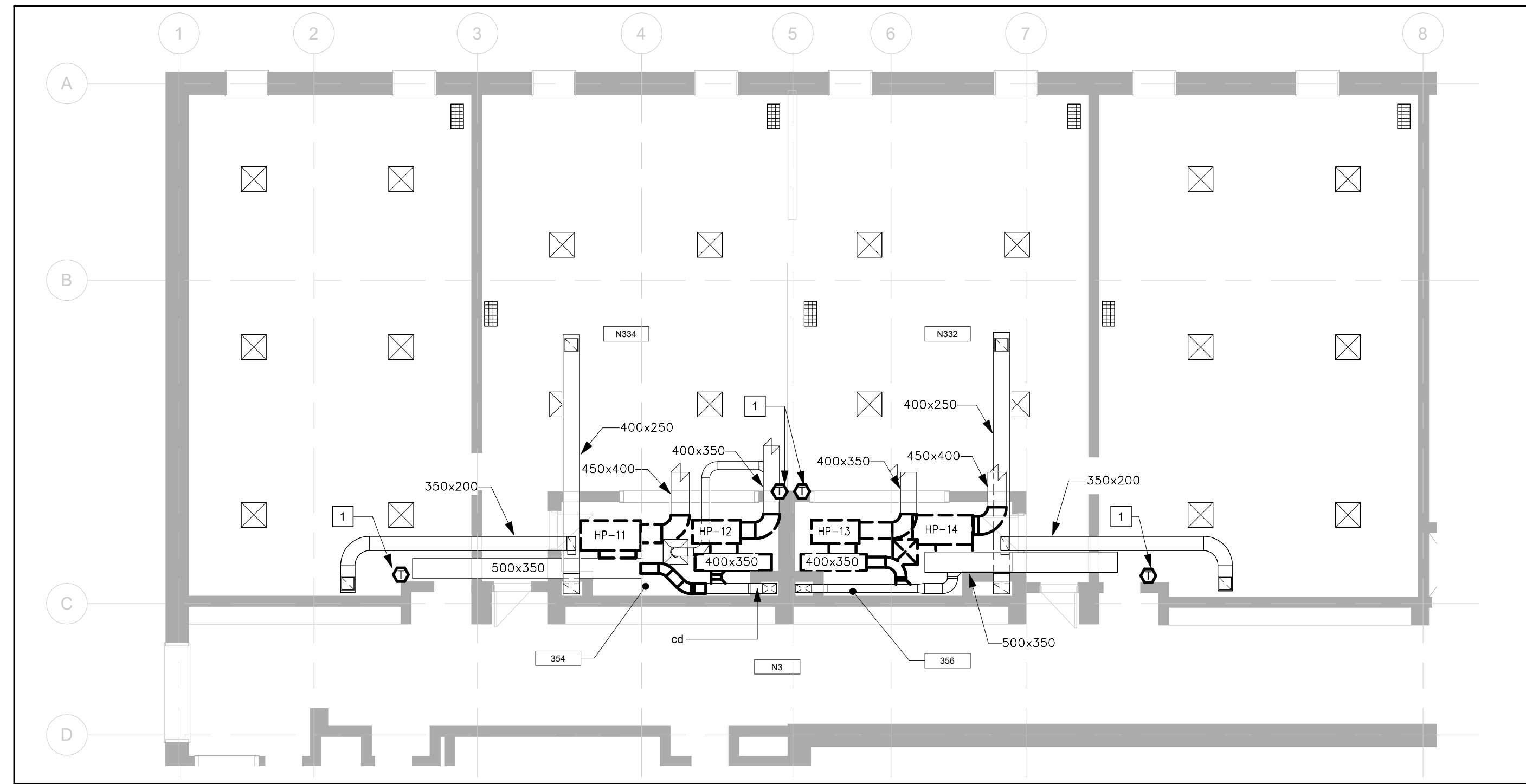
SCALE:	1 : 100	SHEET NO:
DATE:	2024.02.28	MD01
PROJECT NO:	2021-0807-12	
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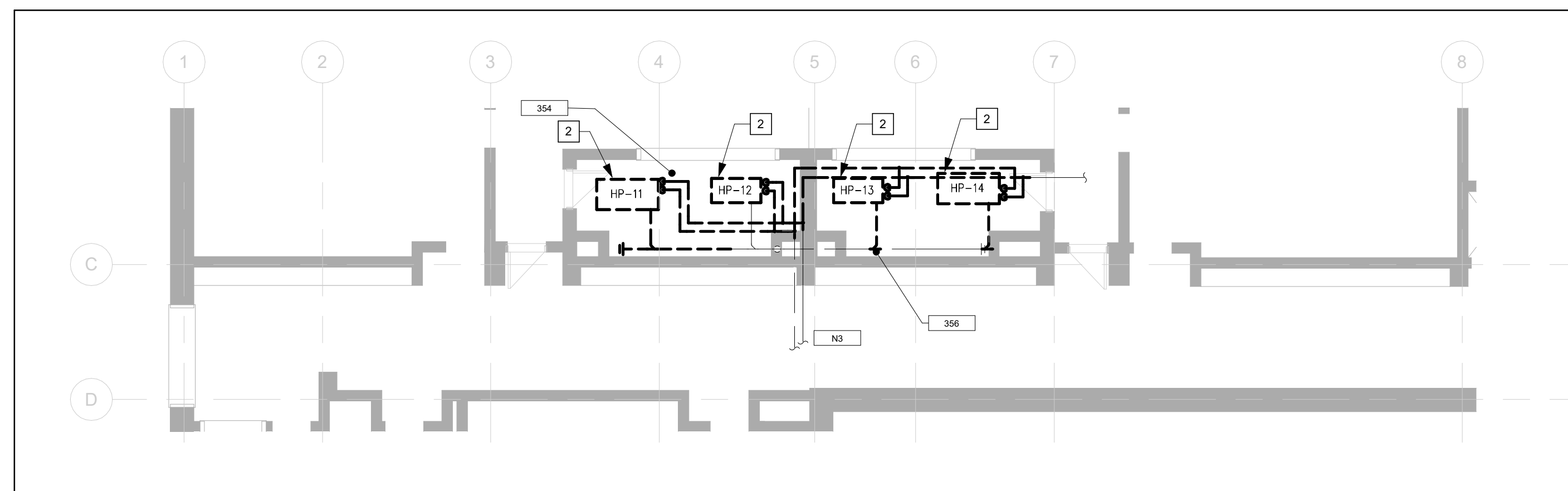
1 PARTIAL LEVEL 03 PLAN - DEMOLITION MECHANICAL LAYOUT
MD02 Scale: 1 : 100

DEMOLITION NOTES

- 1 DEMOLISH EXISTING THERMOSTAT COMPLETE IN ALL RESPECTS. COORDINATE WALL REPAIR WITH OTHER TRADES.
- 2 DEMOLISH EXISTING HEAT PUMP. INCLUDE TEMPORARY REMOVAL OF ALL EXISTING SERVICES (PIPING, CEILING, CONDUIT, ETC.) TO ALLOW FOR DEMOLITION.

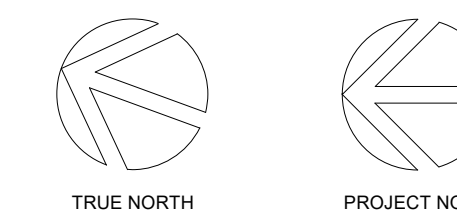
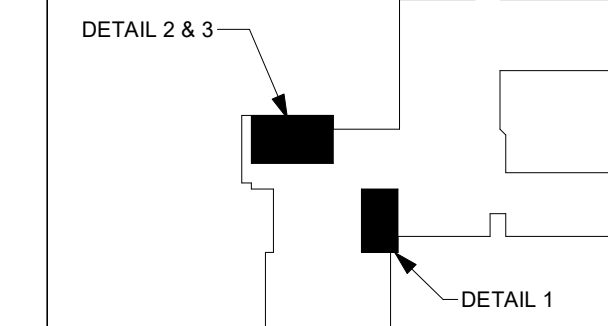


2 PARTIAL LEVEL 03 PLAN - DEMOLITION MECHANICAL LAYOUT
MD02 Scale: 1 : 100



3 PARTIAL LEVEL 03 PLAN - MECHANICAL PIPING LAYOUT
MD02 Scale: 1 : 100

CLIENT LOGO



No.	ISSUANCE	DATE
2	ISSUED FOR 90% OWNER REVIEW	2024.02.21
3	ISSUED FOR BID AND PERMIT	2024.02.28

CLIENT

WATERLOO REGIONAL DISTRICT SCHOOL BOARD

PROJECT

JACOB HESPELER SS HEAT PUMP REPLACEMENT
355 Holiday Inn Dr, Cambridge, ON N3C 1Z2

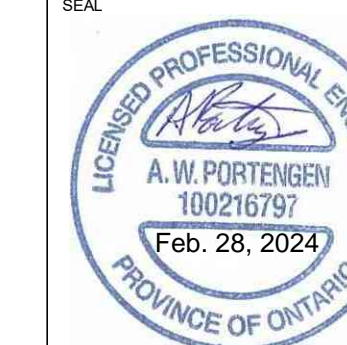
TITLE

LEVEL 03 PLAN - DEMOLITION MECHANICAL LAYOUT

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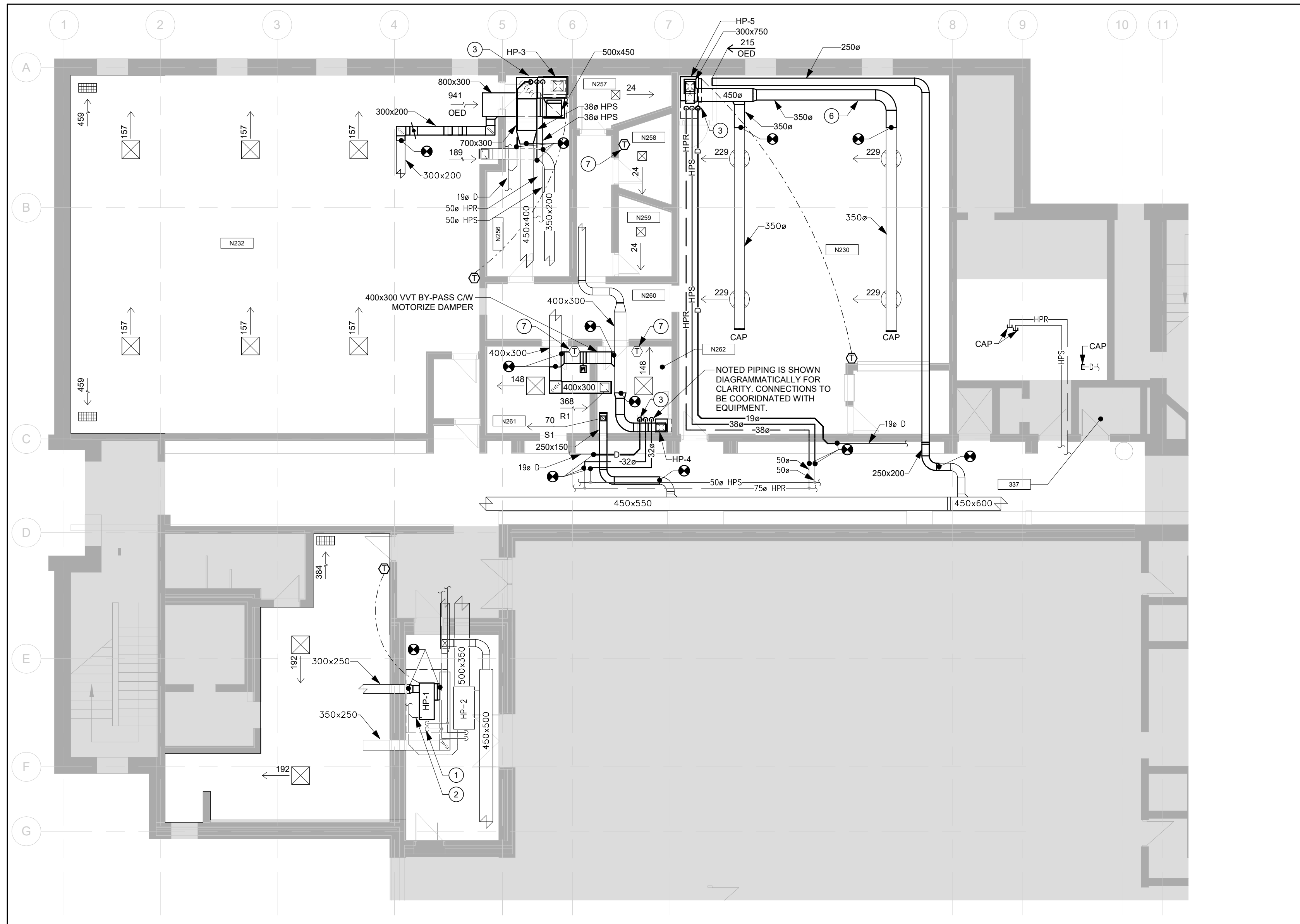
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MD02



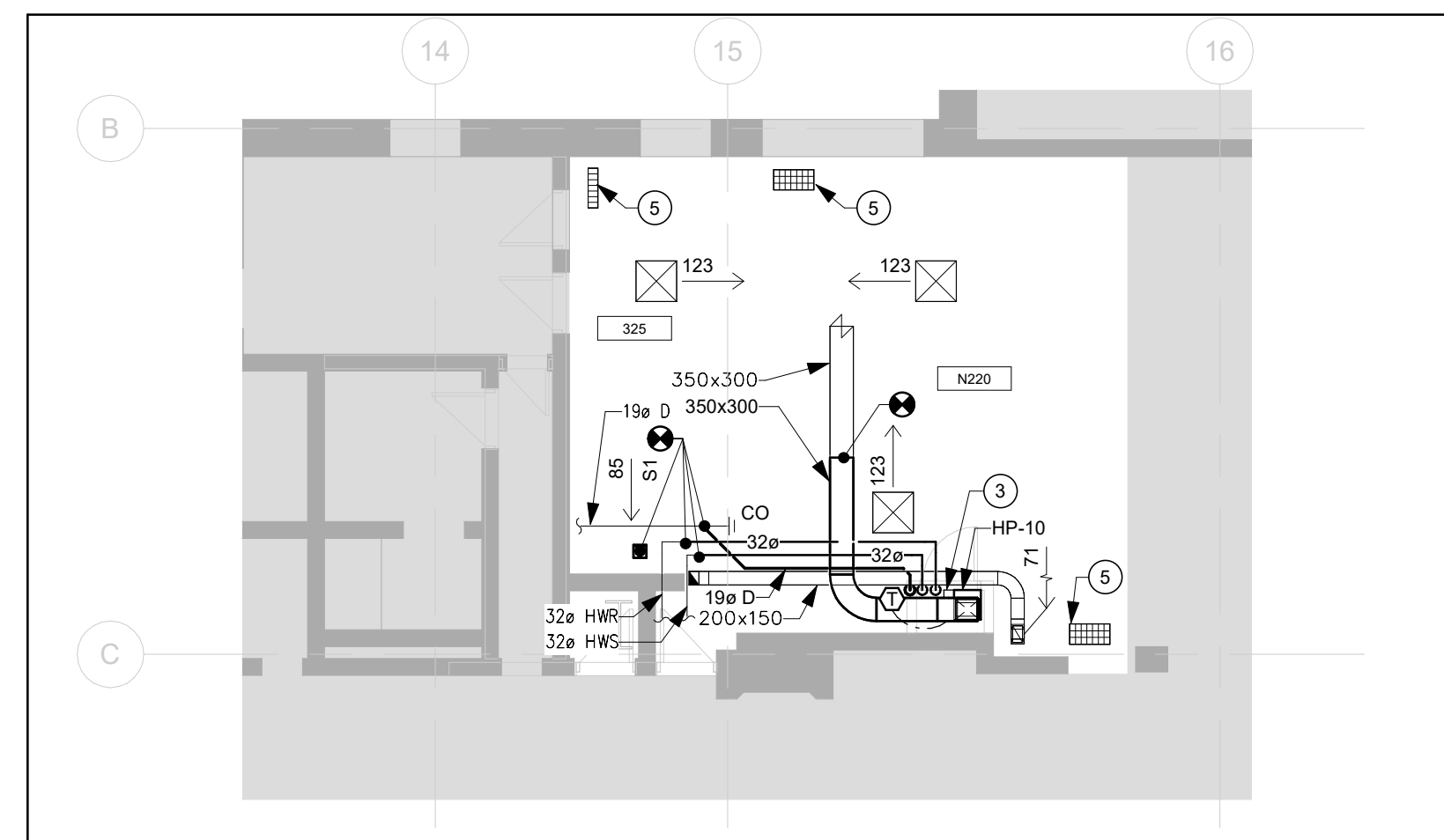
1 PARTIAL LEVEL 02 PLAN - MECHANICAL LAYOUT
M101 Scale: 1 : 100

DRAWING NOTES

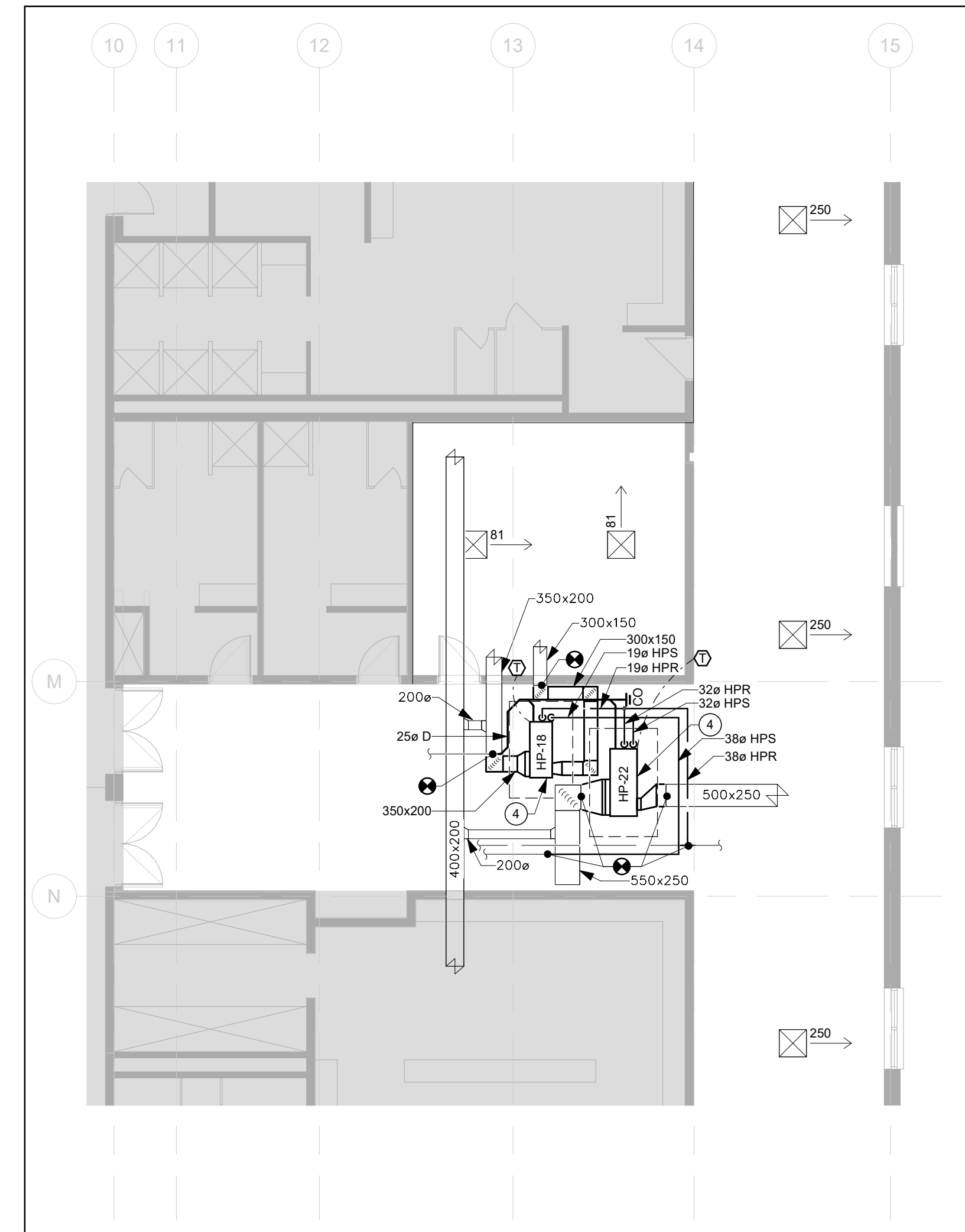
- REWORK EXISTING HVAC/R PIPING AS REQUIRED TO SUIT NEW HEAT PUMP. PROVIDE NEW MATERIALS AS REQUIRED FOR A COMPLETE INSTALLATION.
- REWORK EXISTING CONDENSATE PIPING AS REQUIRED TO SUIT NEW HEAT PUMP. PROVIDE NEW MATERIALS AS REQUIRED FOR A COMPLETE INSTALLATION.
- PROVIDE CONDENSATE PUMP AT NOTED HEAT PUMP. PROVIDE NEW CONDENSATE DRAIN LINES AS INDICATED. CONNECT INTO EXISTING CONDENSATE LINE IN CEILING SPACE.
- HEAT PUMP TO BE LOCATED DIRECTLY ABOVE FULL SIZED CEILING TILE AND AWAY FROM LIGHT FIXTURES. COORDINATE EXACT LOCATION ON SITE.
- REMOVE NOTED EXISTING GRILLE. PROVIDE SHEET METAL BLANK OFF COVER AND REINSTALL GRILLE.
- EXPOSED PIPING AND DUCTWORK THROUGHOUT ROOM TO BE PAINTED. REFER TO ARCHITECTURAL DRAWINGS FOR COLOUR.
- PROVIDE NEW THERMOSTAT FOR EXISTING VVT BOX.

GENERAL DRAWING NOTES

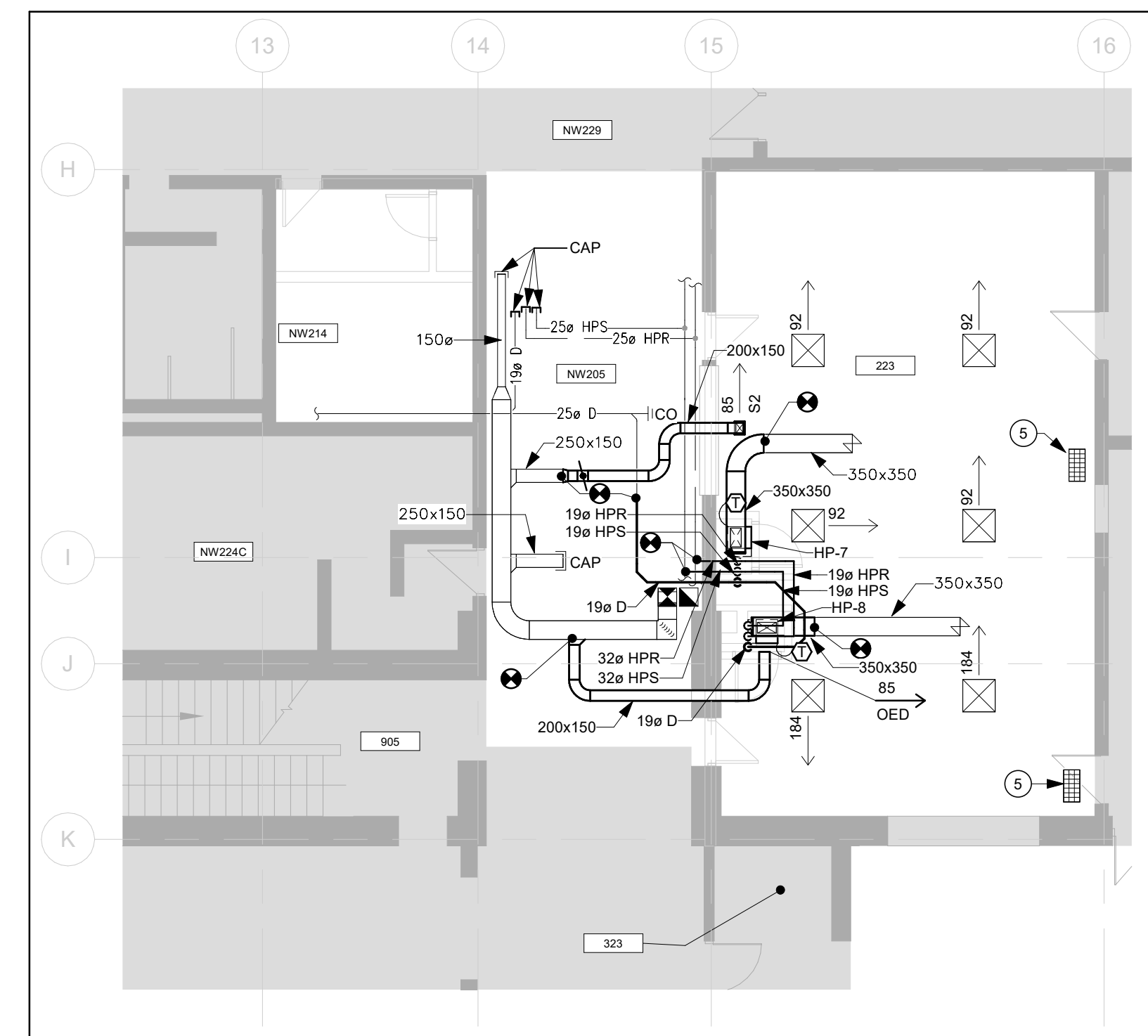
- REMOVE EXISTING PIPING AS REQUIRED TO ACCOMMODATE REMOVAL OF EXISTING HEAT PUMPS. FIELD VERIFY EXACT PIPING TO BE REMOVED ON SITE.



2 PARTIAL LEVEL 02 PLAN - MECHANICAL LAYOUT
M101 Scale: 1 : 100



3 PARTIAL LEVEL 02 PLAN - MECHANICAL LAYOUT
M101 Scale: 1 : 100

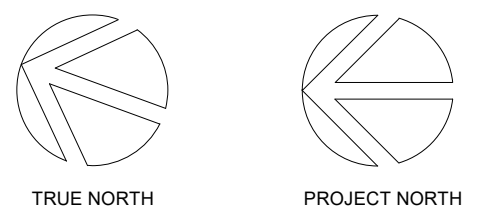
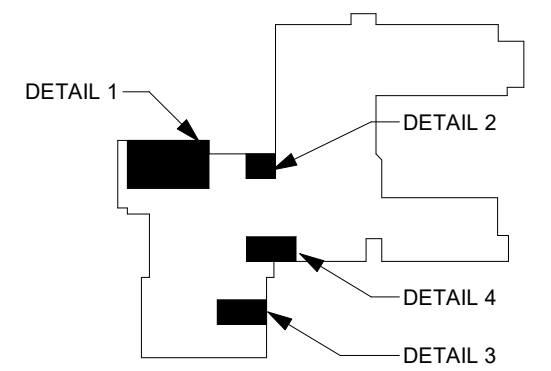


4 PARTIAL LEVEL 02 PLAN - MECHANICAL LAYOUT
M101 Scale: 1 : 100

CLIENT LOGO



KEYPLAN



No.	ISSUANCE	DATE
1	ISSUED FOR 60% OWNER REVIEW	2024.01.25
2	ISSUED FOR 90% OWNER REVIEW	2024.02.21
3	ISSUED FOR BID AND PERMIT	2024.02.28

CLIENT

WATERLOO REGIONAL DISTRICT SCHOOL BOARD

JACOB HESPELER SS HEAT PUMP REPLACEMENT
355 Holiday Inn Dr, Cambridge, ON N3C 1Z2

TITLE

LEVEL 02 PLAN - MECHANICAL LAYOUT

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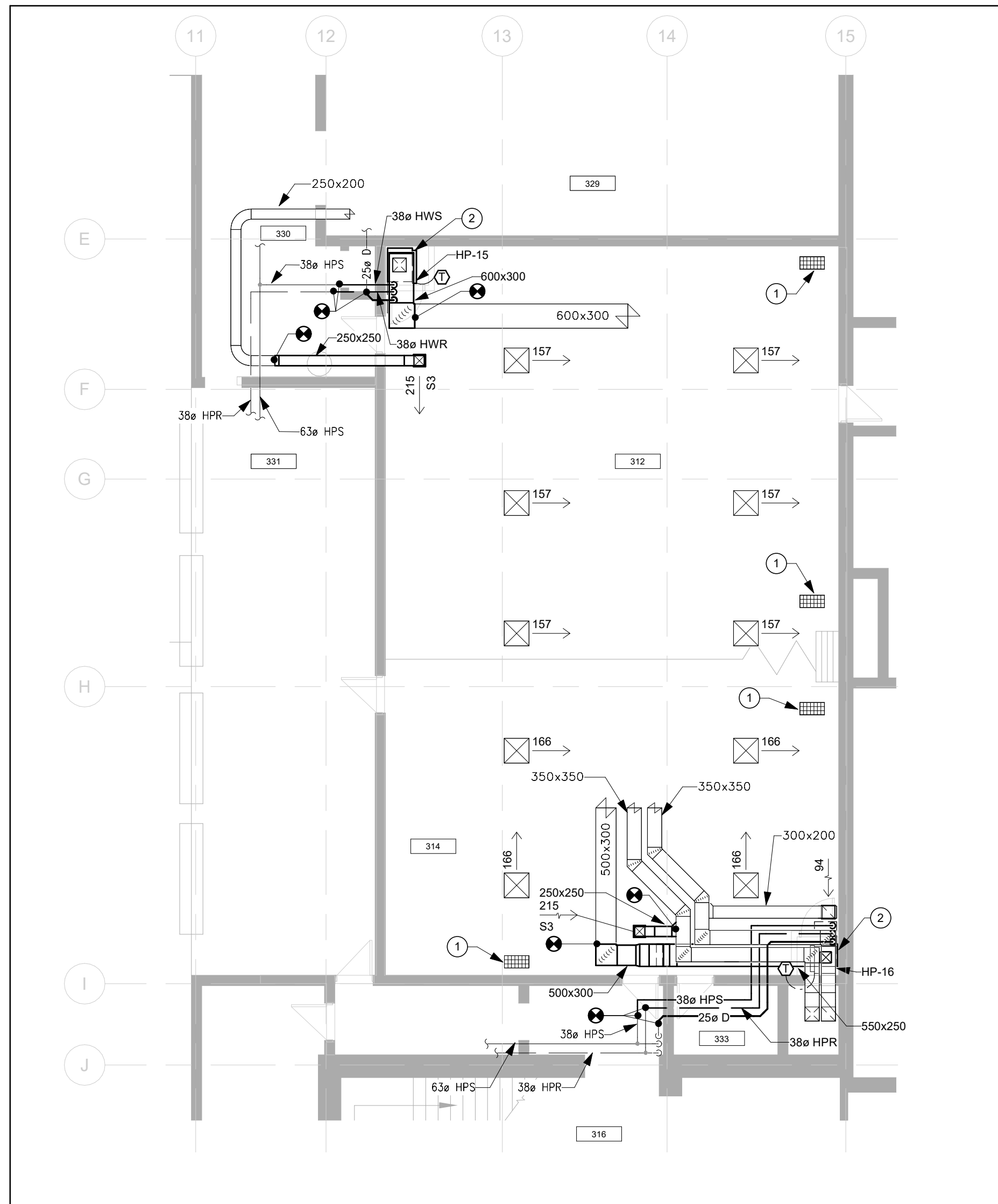
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PROJECT NO: 2021-0807-12
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SHEET NO:

M101



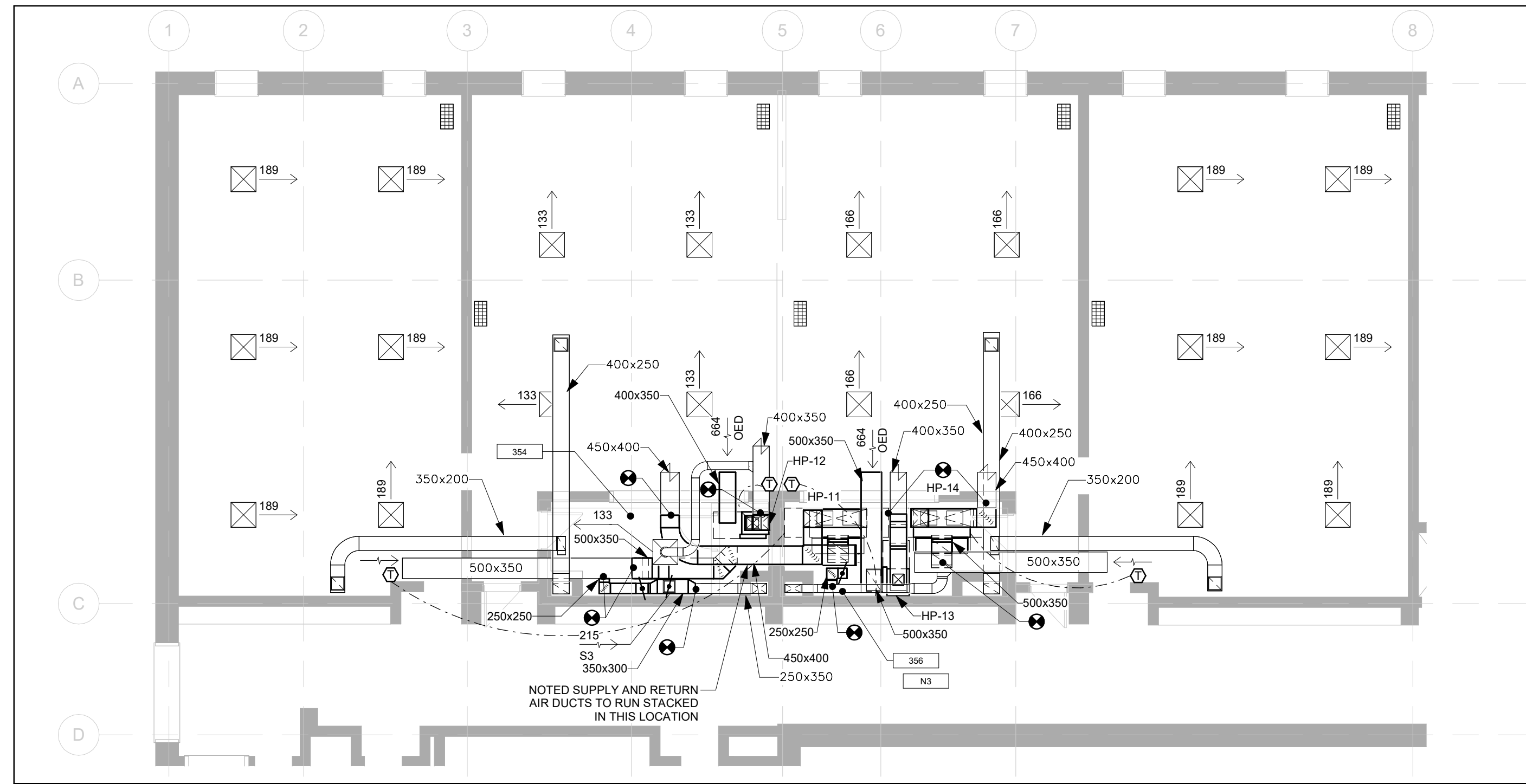
1 PARTIAL LEVEL 03 PLAN - MECHANICAL LAYOUT
M102 Scale: 1 : 100

DRAWING NOTES

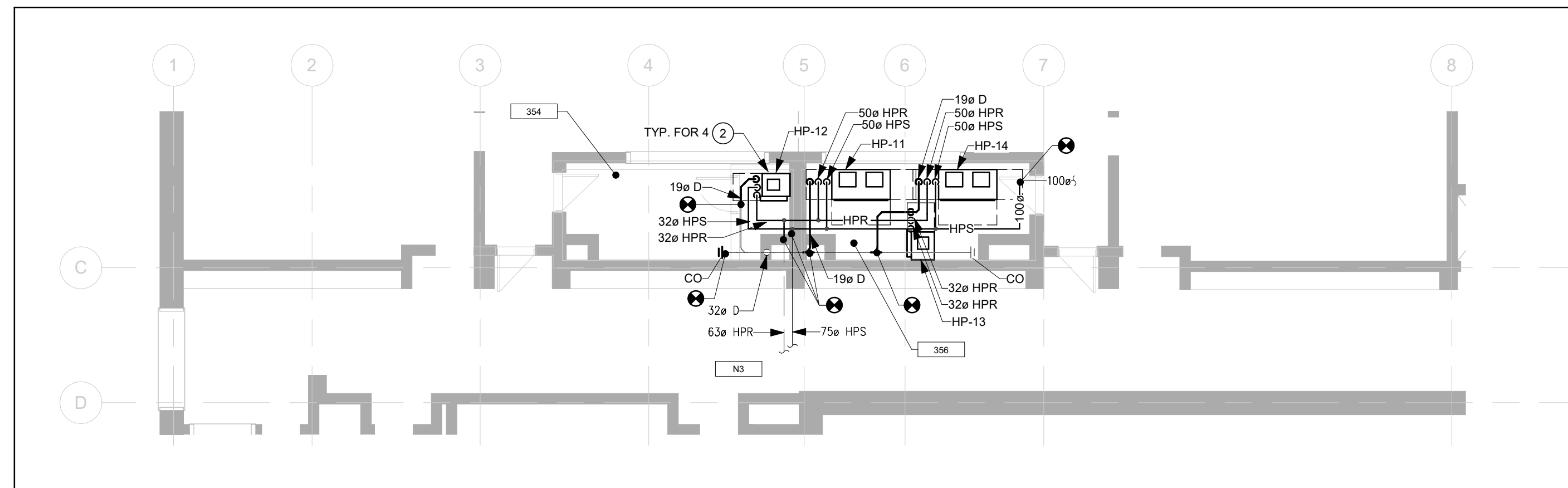
- REMOVE NOTED EXISTING GRILLE, PROVIDE SHEET METAL BLANK OFF COVER AND REINSTALL GRILLE.
- PROVIDE CONDENSATE PUMP AT NOTED HEAT PUMP. PROVIDE NEW CONDENSATE DRAIN LINES AS INDICATED. CONNECT INTO EXISTING CONDENSATE LINE IN CEILING SPACE.

GENERAL DRAWING NOTES

- A REMOVE EXISTING PIPING AS REQUIRED TO ACCOMMODATE REMOVAL OF EXISTING HEAT PUMPS. FIELD VERIFY EXACT PIPING TO BE REMOVED ON SITE.



2 PARTIAL LEVEL 03 PLAN - MECHANICAL LAYOUT
M102 Scale: 1 : 100

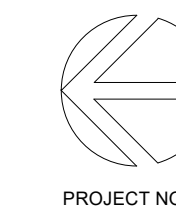
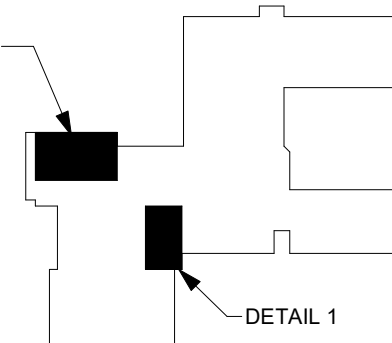


3 PARTIAL LEVEL 03 PLAN - MECHANICAL PIPING LAYOUT
M102 Scale: 1 : 100

CLIENT LOGO



DETAIL 2 & 3



No.	ISSUANCE	DATE
1	ISSUED FOR 60% OWNER REVIEW	2024.01.25
2	ISSUED FOR 90% OWNER REVIEW	2024.02.21
3	ISSUED FOR BID AND PERMIT	2024.02.28

CLIENT

WATERLOO REGIONAL DISTRICT SCHOOL BOARD

PROJECT

JACOB HESPELER SS HEAT PUMP REPLACEMENT
355 Holiday Inn Dr, Cambridge, ON N3C 1Z2

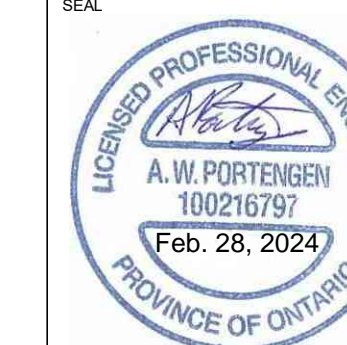
TITLE

LEVEL 03 PLAN - MECHANICAL LAYOUT

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SEAL



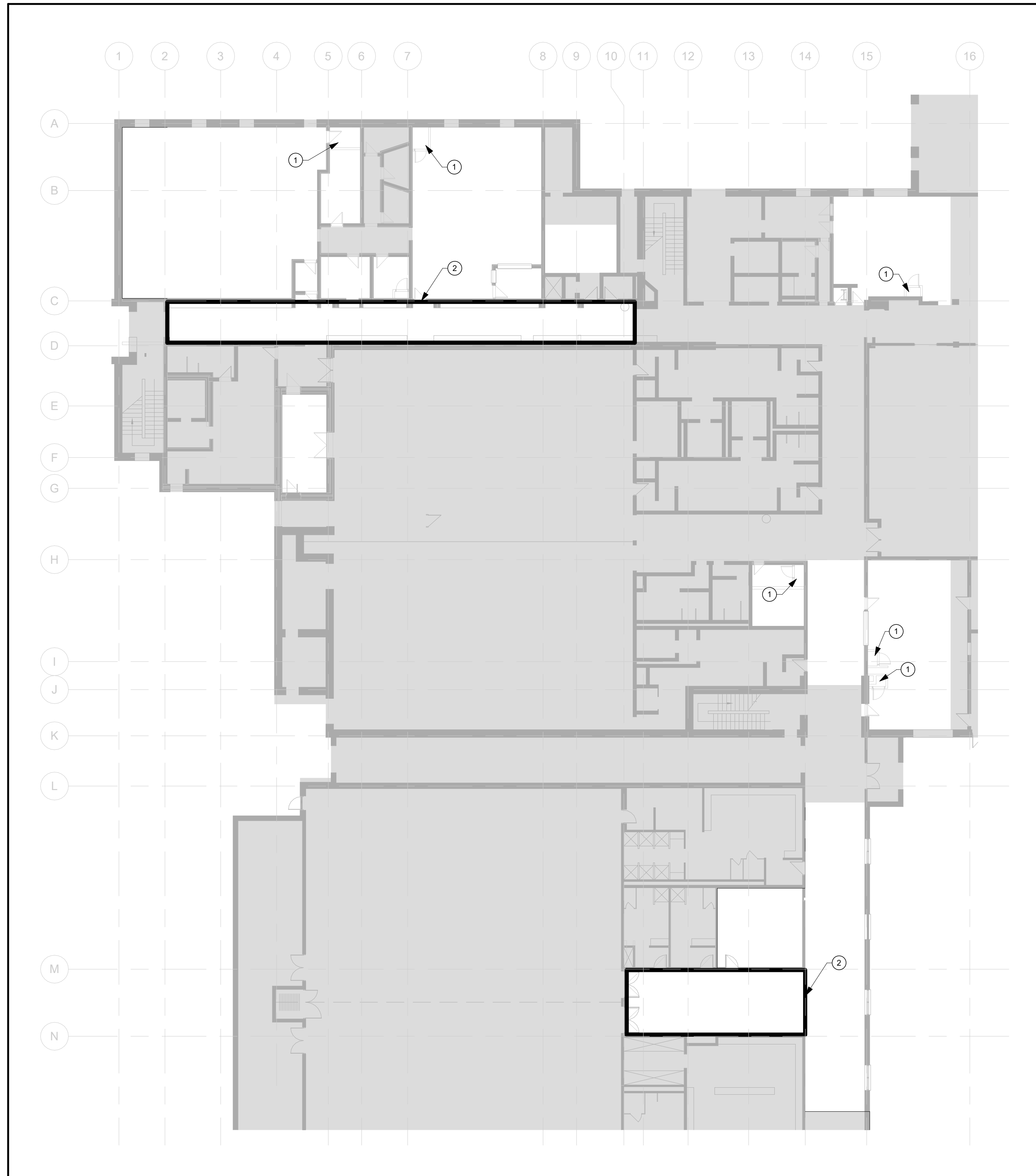
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SCALE: 1 : 100
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PROJECT NO: 2021-0807-12
DRAWN BY: DS
CHECKED BY: AP

SHEET NO:

M102



1 LEVEL 02 PLAN - FIRE PROTECTION LAYOUT
 F101 Scale: 1 : 200

DRAWING NOTES

- 1 PROVIDE SPRINKER HEAD IN HEAT PUMP CLOSET.
- 2 PROVIDE SPRINKER HEADS IN CORRIDOR WHERE CEILING IS REPLACED. REFER TO ARCHITECTURAL PLAN FOR EXTENT OF CEILING REPLACEMENT.

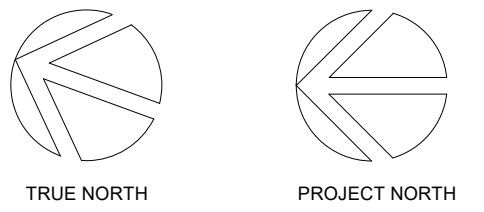
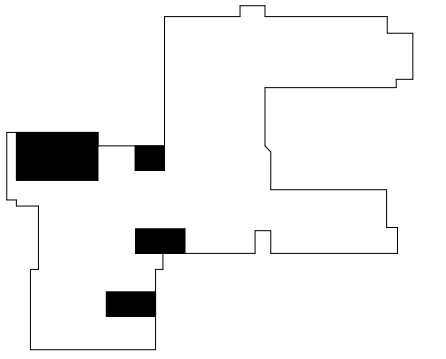
GENERAL FIRE PROTECTION NOTES

- GENERAL
- A PROVIDE A COMPLETE SYSTEM OF FIRE SUPPRESSION, AS INDICATED IN THESE DOCUMENTS.
 - B ALL SYSTEMS AND EQUIPMENT SHALL COMPLY WITH REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION (e.g. OBC, CSA, ULC, ETL, NFPA) AND SHALL BE PROVIDED NEW FOR THIS PROJECT.
 - C ALTERNATE EQUIPMENT SELECTED BY THE CONTRACTOR PLACES FULL RESPONSIBILITY ON THE CONTRACTOR TO REMEDY ANY SITE ISSUES CREATED BY THIS CHOICE.
 - D COORDINATE AND MINIMIZE ALL SERVICE INTERRUPTIONS NECESSARY TO COMPLETE THIS PROJECT.
 - E THE DOCUMENTS PROVIDE A REPRESENTATIVE VIEW OF SYSTEMS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR SPATIAL COORDINATION WITH ALL OTHER BUILDING SYSTEMS. PROVIDE ONLY NEW, COMMERCIAL GRADE EQUIPMENT/COMPONENTS FOR ALL SYSTEMS.
 - F THIS CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL FIRE PROTECTION PIPING AND COORDINATED SPACE REQUIREMENTS WITH OTHER TRADES. PROTECT PIPING INSTALLED BY THIS CONTRACTOR TO MEET REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION.
 - G PROVIDE STAMPED SHOP DRAWINGS FOR ALL EQUIPMENT.
 - H PROVIDE FIRE STOPPING AND IDENTIFICATION (LABELING AND/OR PAINTING) FOR ALL SYSTEMS.
 - I STARTUP, MONITOR, AND DOCUMENT PROPER OPERATION OF ALL EQUIPMENT AND SYSTEMS.
 - J PROVIDE A COMPLETE ONE YEAR WARRANTY ON THE ENTIRE PROJECT, COMMENCING AT SUBSTANTIAL COMPLETION.
 - K ALL MATERIALS WITHIN RETURN AIR PLENUMS SHALL HAVE A FLAME-SPREAD RATING NOT MORE THAN 25 AND A SMOKE DEVELOPMENT CLASSIFICATION NOT MORE THAN 50.
 - L PROVIDE UPRIGHT BRASS SPRINKLER HEADS IN EXPOSED STRUCTURE AREAS.
 - M PROVIDE CONCEALED SPRINKLER HEADS IN ALL FINISHED CEILING AREAS.

CLIENT LOGO



KEYPLAN



No.	ISSUANCE	DATE
1	ISSUED FOR 60% OWNER REVIEW	2024.01.25
2	ISSUED FOR 90% OWNER REVIEW	2024.02.21
3	ISSUED FOR BID AND PERMIT	2024.02.28

CLIENT

WATERLOO REGIONAL DISTRICT SCHOOL BOARD

PROJECT

JACOB HESPELER SS HEAT PUMP REPLACEMENT
 355 Holiday Inn Dr, Cambridge, ON N3C 1Z2

TITLE

LEVEL 02 PLAN - FIRE PROTECTION LAYOUT

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SEAL



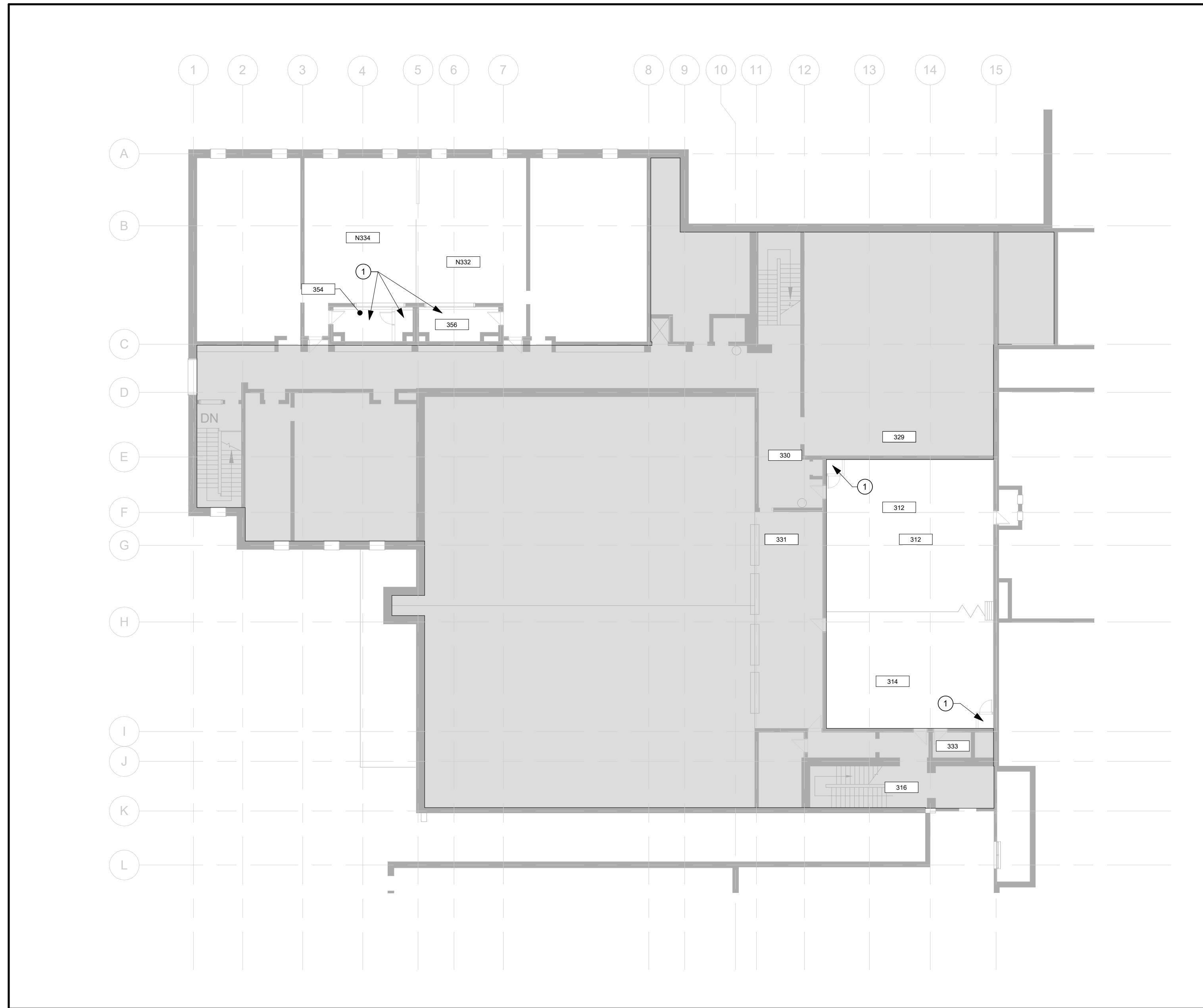
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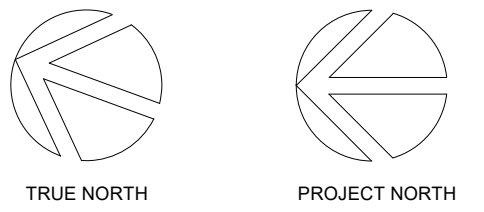
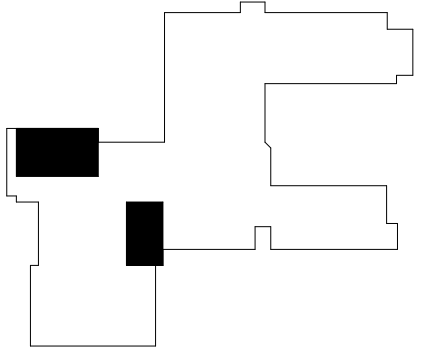
F101



1 LEVEL 03 PLAN - FIRE PROTECTION LAYOUT
 F102 Scale: 1 : 200

DRAWING NOTES
 1 PROVIDE REINVED SPRINKLER HEAD COVERAGE AND TYPE TO SUIT CEILING CONFIGURATION

CLIENT LOGO



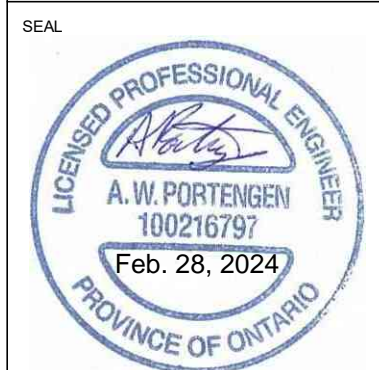
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CLIENT
WATERLOO REGIONAL DISTRICT SCHOOL BOARD

PROJECT
JACOB HESPELER SS HEAT PUMP REPLACEMENT
 355 Holiday Inn Dr, Cambridge, ON N3C 1Z2

TITLE
LEVEL 03 PLAN - FIRE PROTECTION LAYOUT

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F102

DISCONNECT AND REMOVAL OF MATERIALS AND EQUIPMENT:

- ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE AND/OR RELOCATE EXISTING CONDUIT, DUCTS, EQUIPMENT, ETC. WHERE REQUIRED OR NOTED ON THE DRAWINGS. REMOVE ALL REDUNDANT JUNCTION BOXES, CONDUIT, WIRING, ETC. BACK TO POINT OF ORIGIN AND RE-SUPPORT EXISTING CABLING, CONDUITS, ETC. AS REQUIRED FOR A NEAT AND COMPLETE INSTALLATION.
- EXISTING INSTALLATIONS ARE SHOWN FOR GENERAL REFERENCE ONLY. THE ELECTRICAL CONTRACTOR SHALL INCLUDE ALL COSTS TO MODIFY AND/OR EXTEND NEW WORK AS REQUIRED TO MEET THE DESIGN INTENT. WHERE EXISTING INSTALLATIONS NOT SHOWN ARE UNCOVERED AND DETERMINED TO BE APPROPRIATELY SIZED AND IN GOOD CONDITION, ALTERNATE CONNECTIONS WILL BE ACCEPTABLE WITH PRIOR APPROVAL.
- THE OWNER WILL DECIDE WHICH ITEMS OR EQUIPMENT THEY WISH TO RETAIN AS THEIR PROPERTY. ELECTRICAL CONTRACTOR SHALL CAREFULLY REMOVE THESE ITEMS INTACT AND HAND OVER TO THE OWNER'S REPRESENTATIVE. THIS CONTRACTOR SHALL REMOVE ALL OTHER MATERIAL FROM THE PREMISES.
- ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING CONDUIT, DUCTS AND/OR EQUIPMENT AS NOTED HEREIN OR AS SHOWN ON THE DRAWINGS. EXTEND ALL CONDUIT AND WIRE AS REQUIRED TO RECONNECT RELOCATED EQUIPMENT.
- IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO REVIEW ALL DRAWINGS AND VERIFYING ALL ON SITE CONDITIONS TO DETERMINE THE EXACT EXTENT OF WORK REQUIRED TO ACCOMMODATE THE INSTALLATION OF NEW DRYWALL CEILINGS, MECHANICAL PIPING AND DUCTWORK. THIS CONTRACTOR SHALL RELOCATE ALL EXISTING CONDUITS, BOXES, LIGHTING FIXTURES AND WIRING TO SUIT AND ENSURE ACCESSIBILITY IS MAINTAINED UPON COMPLETION OF OTHER DISCIPLINES NEW INSTALLATIONS.
- EXISTING INSTALLATIONS ABOVE EXISTING LAY-IN (ACOUSTIC) CEILINGS ARE CONSIDERED VISIBLE, ABLE TO BE SEEN, EXISTING CONDITIONS AND FULL ACCESS WILL BE GRANTED TO BIDDERS FOR THOROUGH INSPECTIONS AT THE MANDATORY SITE VISIT AND OTHER TIMES PRIOR TO BID. SCHEDULE ADDITIONAL VISITS IN WRITING WITH THE OWNER. NO EXTRAS WILL BE GRANTED FOR TRADE FAILURE TO IDENTIFY EXISTING CONDITIONS, OR COORDINATE WITH OTHER DRAWINGS AND TRADES, WHICH AFFECTS PROPER INSTALLATION, MODIFICATIONS TO EXISTING SYSTEMS, OR SUBSEQUENT REWORK.
- EXTENTS OF DEMOLITION SHOWN ARE APPROXIMATE. THIS TRADE SHALL BE RESPONSIBLE FOR ANY DEMOLITION REQUIRED SO AS TO MEET THE DESIGN INTENT. CUT, CAP, REMOVE ANY EXISTING INSTALLATIONS MADE OBSOLETE BY NEW WORK WHETHER OR NOT SHOWN. IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO VISIT THE SITE TO EVALUATE THE EXTENT OF DEMOLITION BEFORE SUBMITTING THEIR TENDERS. FAILURE TO DO SO WILL NOT RELIEVE THIS CONTRACTOR OF THIS RESPONSIBILITY.
- ELECTRICAL CONTRACTOR TO ALLOW FOR ANY AND ALL ADDITIONAL CHARGES FOR RELOCATING, REMOVING OR DISCONNECTING SERVICES AND/OR DEVICES NOT SHOWN ON THE ELECTRICAL PLANS THAT MAY INTERFERE WITH THE SCOPE OF OTHER DISCIPLINES. THE GENERAL CONTRACTOR SHALL COORDINATE THIS WORK WITH THE ELECTRICAL CONTRACTOR.
- IN GENERAL, ALL DEVICES (RECEPTACLES, COMMUNICATIONS OUTLETS, LIGHTS, SWITCHES, ETC.) SHOWN ON WALLS TO BE DEMOLISHED ARE TO BE DISCONNECTED AND REMOVED, COMPLETE TO SOURCE, UNLESS OTHERWISE INDICATED. UNLESS OTHERWISE NOTED, DEVICES REMOVED SHALL BE DISPOSED OF BY THIS CONTRACTOR.
- ALL INSTALLATIONS NOT SHOWN SHALL REMAIN AS CURRENTLY INSTALLED UNLESS OTHERWISE NOTED.
- CONTRACTOR IS RESPONSIBLE FOR SAFE REMOVAL, STORAGE AND INSTALLATION OF ALL EQUIPMENT DENOTED TO BE RELOCATED.
- DEVICES NOT SHOWN AND LOCATED ON WALLS TO BE DEMOLISHED SHALL BE COMPLETELY REMOVED. NOTIFY ENGINEER PRIOR TO REMOVAL.
- DEVICES NOT INDICATED TO BE RELOCATED WHICH MAY INTERFERE WITH NEW WALL CONSTRUCTION SHALL BE RELOCATED. NOTIFY ENGINEER PRIOR TO RELOCATION.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ON SITE ALL LOCATIONS AND SIZES OF ALL SERVICES & EQUIPMENT PRIOR TO THE COMMENCEMENT OF WORK.
- MAINTAIN EXISTING BRANCH WIRING AND CABLES TO ALL EXISTING DEVICES TO REMAIN. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT, WIRING, JUNCTION BOXES, ETC. AS REQUIRED TO MAINTAIN EXISTING SERVICES WITHIN NON-RENOVATED AREAS.
- COORDINATE WITH OWNER ANY TEMPORARY SHUT-DOWNS OR DISRUPTIONS FOR ANY SERVICES TO OCCUPIED AREAS. SERVICE SHUTDOWN TIMING SHALL BE DICTATED BY OWNER REQUIREMENTS.
- ELECTRICAL CONTRACTOR TO TAG ALL CABLES, CONDUITS, ETC TO REMAIN IN ALL AREAS WITH BRIGHT YELLOW TAPE AND ENSURE THESE SYSTEMS ARE NOT DISTURBED DURING CONSTRUCTION.
- EXISTING CONDUIT MADE EMPTY BY THE REMOVAL OF EQUIPMENT MAY BE REUSED TO FEED NEW EQUIPMENT AND OR DEVICES. ALL CONDUIT AND WIRE NOT BEING REUSED SHALL BE REMOVED COMPLETELY BACK TO SOURCE WHERE PRACTICAL.
- ALL OPENINGS THAT RESULT FROM THE REMOVAL OF EQUIPMENT, DEVICES AND/OR SERVICES SHALL BE INFILLED BY THE GENERAL CONTRACTOR. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ANY CUTTING AND PATCHING REQUIRED TO SUIT THE INSTALLATION OF ANY NEW EQUIPMENT. ALL PATCHING SHALL BE WITH NEW MATERIALS TO SUIT EXISTING AND NEW CONSTRUCTION TO THE SATISFACTION OF THE ENGINEER AND ARCHITECT. MAINTAIN EXISTING WALL AND FLOOR FIRE RATINGS WHEN PATCHING.
- ELECTRICAL EQUIPMENT TO BE REMOVED MUST BE ISOLATED AND DISCONNECTED AT THE SOURCE PRIOR TO REMOVAL OPERATIONS. DURING ISOLATION AND DISCONNECTION PROCEDURES DANGER TAGS MUST BE USED TO IDENTIFY ANY FEEDERS OR EQUIPMENT REMAINING ENERGIZED TO ACCOMMODATE NEW CONSTRUCTION.
- ITEMS DESIGNATED FOR RELOCATION SHALL BE REMOVED CAREFULLY TO AVOID MATERIAL DAMAGE. ITEMS DAMAGED BY METHODS OF REMOVAL OR STORAGE SHALL BE REPLACED AT NO COST TO OWNER.
- NOTIFY OWNER AND ENGINEER OF ANY DAMAGE OR NON-WORKING EQUIPMENT THAT IS INDICATED TO BE RE-USED OR RELOCATED PRIOR TO COMMENCING WORK.
- REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TILES TO BE REMOVED AND REPLACED. ELECTRICAL CONTRACTOR SHALL REMOVE OR TEMPORARILY SUPPORT ALL EXISTING CEILING MOUNTED DEVICES (EMERGENCY LIGHTING, EXIT SIGNS, FIRE DETECTORS, OCCUPANCY SENSORS, LIGHTS, ETC.) TO ACCOMMODATE CEILING WORK. REINSTALL ELECTRICAL DEVICES UPON COMPLETION OF CEILING WORK.
- WHERE CEILING ARE BEING REMOVED, ENSURE EXISTING LIGHT FIXTURES ARE PROPERLY SUPPORTED FROM STRUCTURE.

LIGHTING DEMOLITION NOTES:

- CONTRACTOR TO ENSURE ALL EXIT SIGNAGE AND EMERGENCY LIGHTING REMAINS IN OPERATION DURING DEMOLITION AND BE ADEQUATELY SUPPORTED WHERE LOCATED ON A WALL OR CEILING BEING REMOVED.
- REMOVE AND MAKE SAFE EXISTING LIGHTING, DEVICES, ETC. AS WELL AS CONDUIT AND BRANCH CIRCUIT WIRING FEEDING DEVICES NOTED TO BE REMOVED.
- REMOVE AND MAKE SAFE EXISTING LIGHTING, MAINTAIN EXISTING CONDUIT AND BRANCH CIRCUIT WIRING FEEDING LIGHTING NOTED TO BE REMOVED. EXISTING BRANCH LIGHTING CIRCUIT TO BE REWORKED AS REQUIRED AND RECONNECTED TO NEW LIGHTING FIXTURES.
- ALL LIGHT FIXTURES DESIGNATED TO BE RELOCATED SHALL BE DISCONNECTED, REMOVED AND PROPERLY STORED. ANY FIXTURES DAMAGED AS A RESULT OF THIS PROCESS ARE TO BE REPLACED AT THE CONTRACTOR'S EXPENSE. RELOCATED LIGHT FIXTURES ARE TO BE CLEANED AND RE-LAMPED PRIOR TO RE-INSTALLATION.
- ELECTRICAL CONTRACTOR TO ALLOW FOR ALL COSTS TO REMOVE & DISPOSE OF ANY FIXTURES WITH PCB BALLASTS TO COMPLY WITH ENVIRONMENT CANADA'S "IDENTIFICATION OF FLUORESCENT LAMP BALLAST CONTAINING PCB'S" (EPS2/CC/2 August 1991) AND "ENVIRONMENT CANADA'S HANDBOOK ON PCB'S IN ELECTRICAL EQUIPMENT" APRIL 1989

LIGHTING RENOVATION NOTES:

- CONNECT NEW LIGHTING TO EXISTING LOCAL BRANCH LIGHTING CIRCUIT IN EACH RESPECTIVE ROOM. SWITCHING CONFIGURATION AND LIGHTING CONTROL SHALL BE REWORKED AS INDICATED ON PLANS.
- ELECTRICAL CONTRACTOR TO COORDINATE ALL LIGHTING INSTALLATIONS WITH MECHANICAL CONTRACTOR PRIOR TO DUCTWORK INSTALLATIONS.
- ELECTRICAL CONTRACTOR TO ENSURE THAT AREAS OUTSIDE OF RENOVATED SCOPE REMAIN AS EXISTING. ALLOW FOR CONDUIT, WIRE & LABOUR AS REQUIRED TO ENSURE ALL SYSTEMS REMAIN IN OPERATION.

POWER GENERAL NOTES:

- MAINTAIN MIN. 3'-4" (1000mm) CLEARANCE FROM ALL ELECTRICAL DISTRIBUTION EQUIPMENT.
- ALL NEW CONDUIT INSTALLATION TO BE INSTALLED TIGHT TO THE CEILING DECK, ABOVE MECHANICAL DUCTS, IN ORDER NOT TO DETER INSTALLATION OF LIGHTING FIXTURES AND DIFFUSERS.
- UNLESS OTHERWISE NOTED, ALL NEW DEVICES AND FACEPLATES SUPPLIED SHALL BE WHITE. DECORA WITH MATCHING COVER PLATE, IN SHOP AREAS, NEW DEVICES SHALL BE WHITE WITH STAINLESS STEEL COVER PLATE. ALL OUTLETS SHALL BE FLUSH MOUNTED IN WALL UNLESS OTHERWISE NOTED.
- EACH RECEPTACLE SHALL BEAR IDENTIFICATION OF THE CIRCUIT(S) CONNECTED ON ITS FACEPLATE. PROVIDE LAMCOID TAG IDENTIFICATION (CIRCUIT AND RELAY NUMBER) ON ALL RECEPTACLES. REFER TO DETAIL 6 ON DRAWING E802.
- ALL WIRING TO BE CODED WITH SHRINK WRAP TAPE SHOWING CIRCUITS ON ALL HOT AND NEUTRAL WIRING AT PANEL, OUTLETS AND ANY JUNCTION OR PULL BOXES (TYP. FOR ALL POWER, LIGHTING, OR MECHANICAL SYSTEMS)
- WHERE CONDUITS PASS THROUGH FLOORS AND FIRE RATED WALL, SEAL SPACE BETWEEN CONDUIT AND STRUCTURE. PROVIDE FIRE BARRIER AROUND ALL COMPONENTS IN HOLES WHICH PENETRATE FIRE SEPARATIONS. THE FIRE BARRIER MEDIUM PROVIDED SHALL MAKE THE FIRE SEPARATION EQUAL TO OR BETTER THAN ONE WHICH HAS CUT AWAY.
- WHEREVER CORE HOLES ARE REQUIRED THROUGH SLAB, ELECTRICAL CONTRACTOR TO PROVIDE A MINIMUM OF 1-2" SLEEVE FOR FUTURE AS SPARE.
- ELECTRICAL CONTRACTOR SHALL PROVIDE BLANK COVER PLATES FOR ALL THE COMMUNICATION OUTLETS
- OUTLETS FOR ALL MECHANICAL EQUIPMENT SHALL BE MOUNTED AT SUITABLE HEIGHT FOR EQUIPMENT BEING SERVED. EXACT LOCATION AND MOUNTING HEIGHT TO BE COORDINATED WITH MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.
- ELECTRICAL CONTRACTOR TO PROVIDE 8"x8"x6" JUNCTION BOX FOR CONTROL TRANSFORMERS ETC. BY MECHANICAL CONTROLS CONTRACTOR. PROVIDE 120V CIRCUIT AND MAKE ALL FINAL CONNECTIONS TO TRANSFORMER PRIMARY.
- CONTRACTOR TO COORDINATE LOCATION AND MOUNTING HEIGHTS OF ALL RECEPTACLES WITH ARCHITECTURAL DRAWINGS AND DETAILS PRIOR TO ROUGH-IN.
- ALL CONDUITS AND CABLING TO RUN ABOVE CEILING.
- ALL POWER PULL BOXES TO BE 18"x18"x6" MINIMUM. PROVIDE LAMICOID CIRCUIT DESCRIPTOR ON OUTSIDE OF COVER AND COLOUR CODE PAINT THE COMPLETE COVER, TYPICAL.
- PROVIDE TEMPORARY ELECTRICAL POWER FOR THE WORK OF THE OTHER TRADES AS REQUIRED BY THE GENERAL CONTRACTOR.
- MARK CEILING TILES WITH RED DOT WHERE ANY POWER SUPPLIES ARE LOCATED ABOVE CEILING.

POWER RENOVATION NOTES:

- EXISTING DEVICES TO REMAIN SHALL BE RECIRCUITED AS NOTED ON NEW PANEL SCHEDULES AND PROPOSED PLANS.
- CONNECT NEW DEVICES IN AREAS NOTED ON PLANS TO EXISTING BRANCH CIRCUITS IN THEIR RESPECTIVE AREAS.
- ALL EXISTING DUPLEX RECEPTACLES NOTED AS EXISTING TO BE RELOCATED SHALL BE REPLACED WITH NEW DEVICES. COLOR TO MATCH EXISTING. THIS CONTRACTOR SHALL EXTEND OR CUT BACK EXISTING BRANCH CIRCUIT WIRING TO NEW LOCATION AND MAKE ALL FINAL CONNECTIONS.
- ELECTRICAL CONTRACTOR TO ENSURE THAT AREAS OUTSIDE OF RENOVATED SCOPE REMAIN AS EXISTING. ALLOW FOR CONDUIT, WIRE AND LABOUR AS REQUIRED TO ENSURE SYSTEMS REMAIN IN OPERATION.
- ALLOW FOR REVISIONS TO EXISTING SERVICES WHERE NEW SERVICES MEET EXISTING. ENSURE EXISTING SERVICES ARE RE-ROUTED AS REQUIRED TO ALLOW FOR A COMPLETE OPERATING SYSTEM.

ELECTRICAL LEGEND	
LIGHTING FIXTURES	
	RECTANGULAR LIGHT FIXTURE RECESSED, SURFACE, SUSPENDED
	LIGHT FIXTURE ON EMERGENCY POWER
	PLUG-IN EMERGENCY LIGHTING BATTERY UNIT WITHOUT EMERGENCY HEADS, WITH EMERGENCY HEADS
	HARDWIRED EMERGENCY LIGHTING BATTERY UNIT WITHOUT EMERGENCY HEADS, WITH EMERGENCY HEADS
	EMERGENCY LIGHTING REMOTE HEAD SINGLE HEAD, DOUBLE HEAD
	RUNNING MAN EXIT SIGN CEILING MOUNTED, END MOUNTED, WALL MOUNTED ARROW INDICATES DIRECTION OF TRAVEL DOUBLE BORDER INDICATES DOUBLE FACE
LIGHTING DEVICES	
	LINE VOLTAGE LIGHTING SWITCHES ON/OFF SWITCH, DIMMER SWITCH
	LINE VOLTAGE LIGHTING SWITCHES SINGLE BUTTON SWITCH, MULTIBUTTON SWITCH
POWER	
	DUPLEX RECEPTACLE STANDARD, MOUNTED ABOVE COUNTER, 20A, PLUG LOAD CONTROL
	GFCI DUPLEX RECEPTACLE STANDARD, MOUNTED ABOVE COUNTER, 20A, PLUG LOAD CONTROL
	DIRECT CONNECTION
	JUNCTION BOX
	PANELBOARD SURFACE MOUNT, FLUSH MOUNT
	DISCONNECT SWITCH (SIZE AS NOTED) NON-FUSIBLE, FUSIBLE
	EQUIPMENT TAG ELECTRICAL, FIRE ALARM, HEATER, CAMERA, DATA, MECHANICAL, KITCHEN, LABORATORY, OWNER
MECHANICAL	
	MOTOR
	STARTERS MANUAL, MAGNETIC, COMBINATION, SOLID STATE, VARIABLE FREQUENCY DRIVE (VFD)
RENOVATION	
	EXISTING DEVICE TO REMAIN AS PRESENTLY INSTALLED
	DISCONNECT AND REMOVE EXISTING DEVICE COMPLETELY
	DISCONNECT AND REMOVE EXISTING DEVICE FOR RELOCATION
	EXISTING DEVICE IN RELOCATED POSITION AND RECONNECTED AS PREVIOUS UNLESS NOTED OTHERWISE
ABBREVIATIONS	
CM	= CEILING MOUNTED
WM	= WALL MOUNTED
FM	= FLOOR MOUNTED
AFF	= ABOVE FINISHED FLOOR
AFG	= ABOVE FINISHED GRADE
BFG	= BELOW FINISHED GRADE
BFC	= BELOW FINISHED CEILING
W/P	= WEATHERPROOF
LSIG	= LONG, SHORT, INSTANTANEOUS, GROUND-FAULT TRIP SETTINGS
AWG	= AMERICAN WIRE GAUGE
NO/NC	= NORMALLY OPEN / NORMALLY CLOSED
U/G	= UNDERGROUND
O/H	= OVERHEAD
ATS	= AUTOMATIC TRANSFER SWITCH
MTS	= MANUAL TRANSFER SWITCH
CT/PT	= CURRENT TRANSFORMER / POTENTIAL TRANSFORMER

ELECTRICAL DRAWING LIST	
NO.	DRAWING NAME
E001	ELECTRICAL NOTES, LEGENDS AND DRAWING LIST
E002	ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 02 - WING B
E003	ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 03 - WING B
E301	ELECTRICAL RENOVATION FLOOR PLAN - LEVEL 02 - WING B
E302	ELECTRICAL RENOVATION FLOOR PLAN - LEVEL 03 - WING B
E802	ELECTRICAL DETAILS
E901	ELECTRICAL SCHEDULES



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CLIENT
WATERLOO REGIONAL DISTRICT SCHOOL BOARD
 51 Ardelt Avenue, Kitchener, ON N2C 2R5

PROJECT
JACOB HESPELER SS HEAT PUMP REPLACEMENT
 355 Holiday Inn Dr, Cambridge, ON, N3H 1Z2

TITLE
ELECTRICAL NOTES, LEGENDS, AND DRAWING LIST

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 TORONTO | CALGARY | KITCHENER | HAMILTON

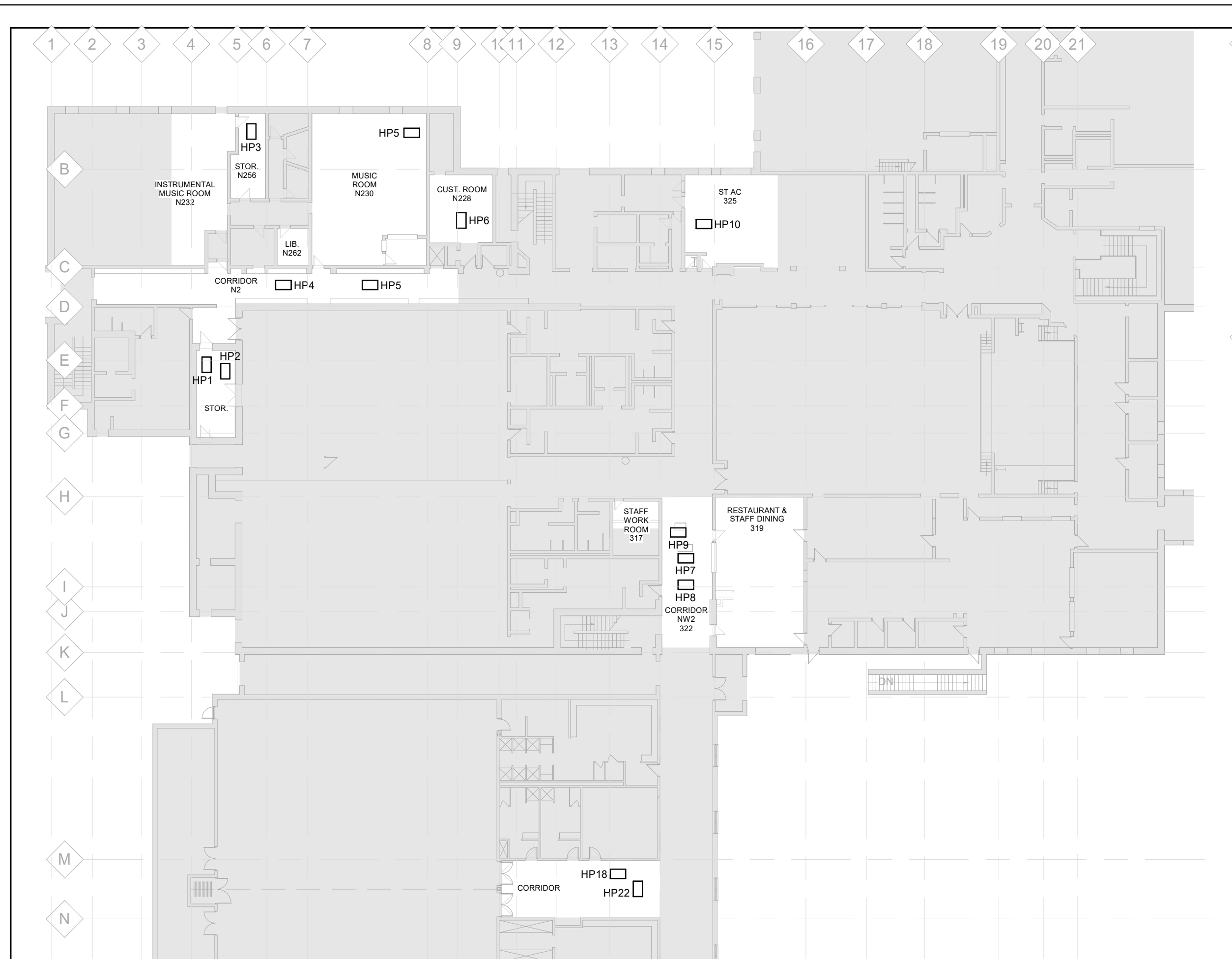
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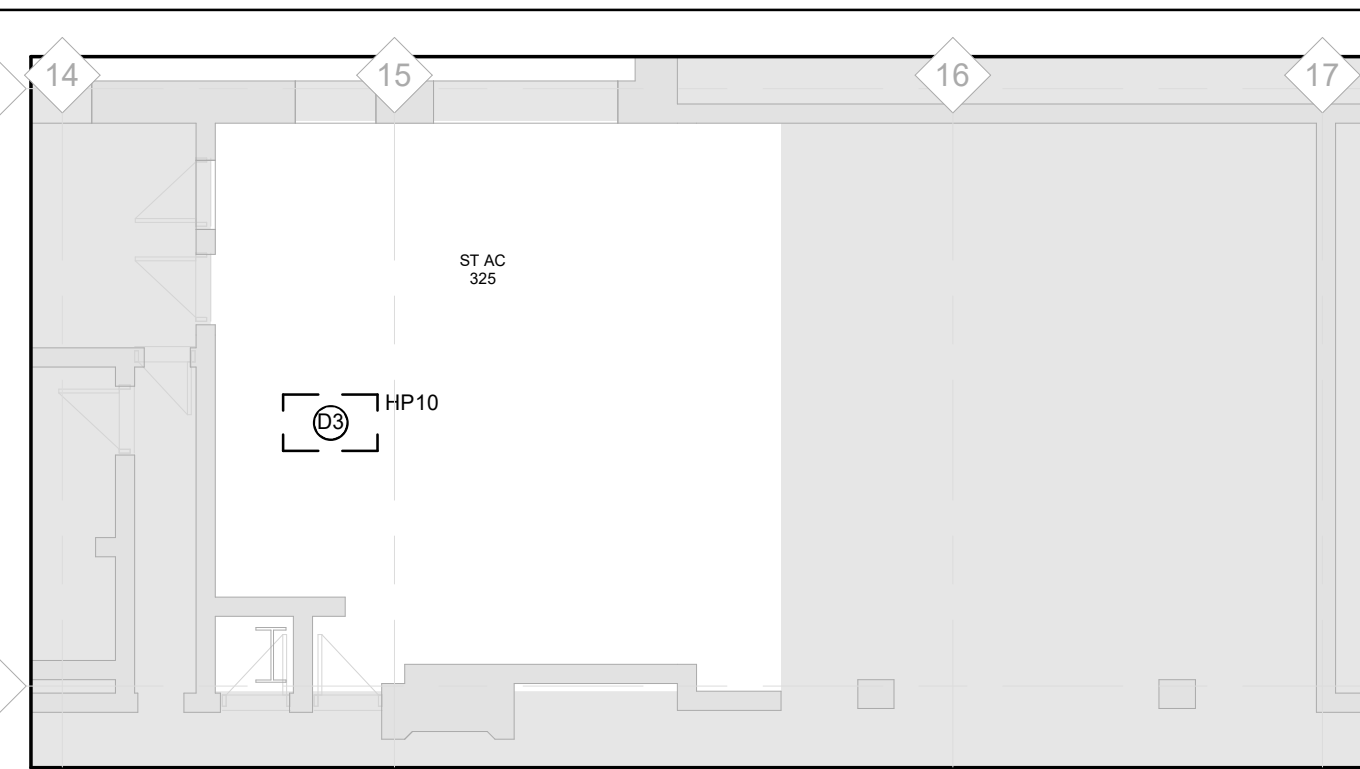
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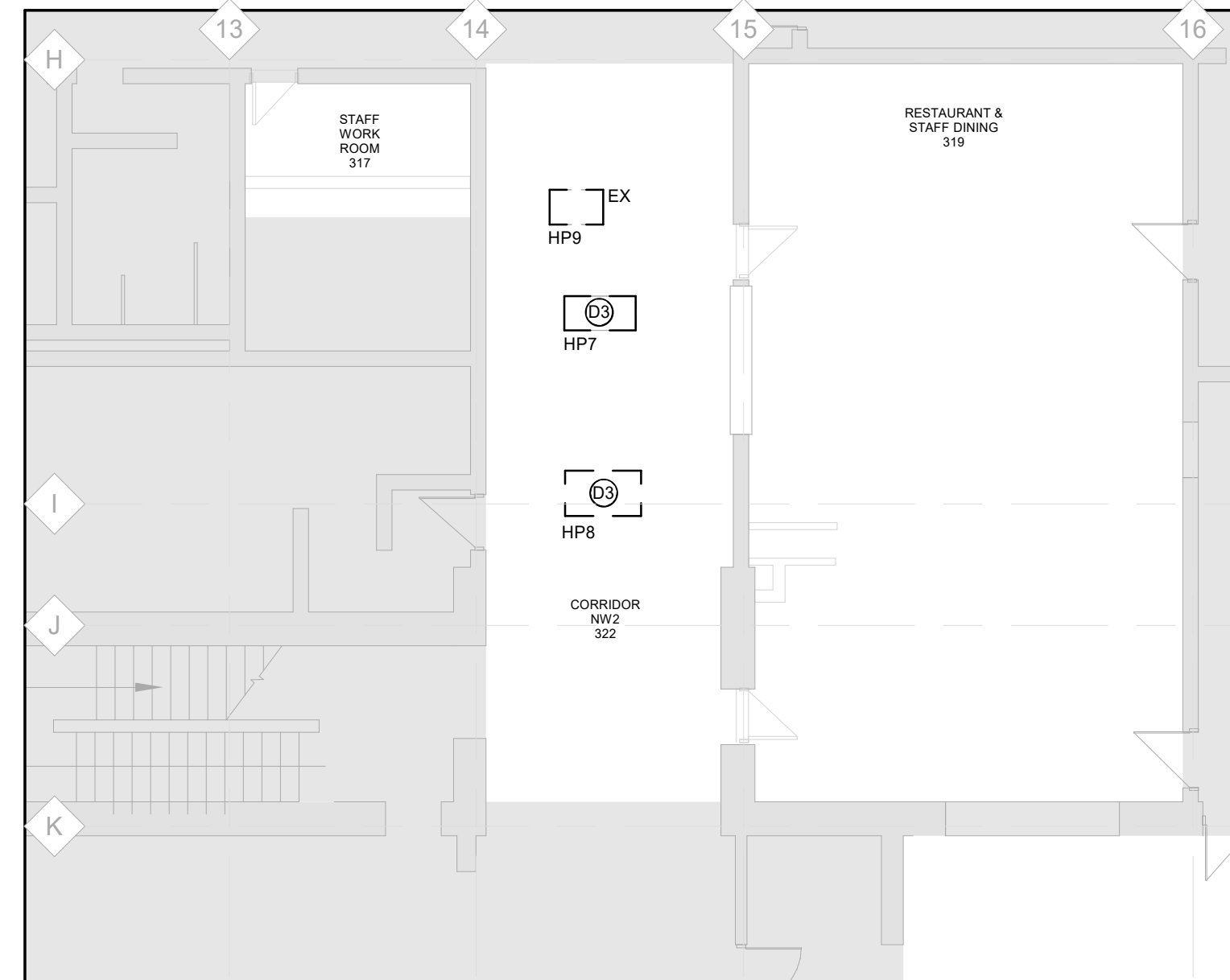
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ED02 Scale: 1 : 300



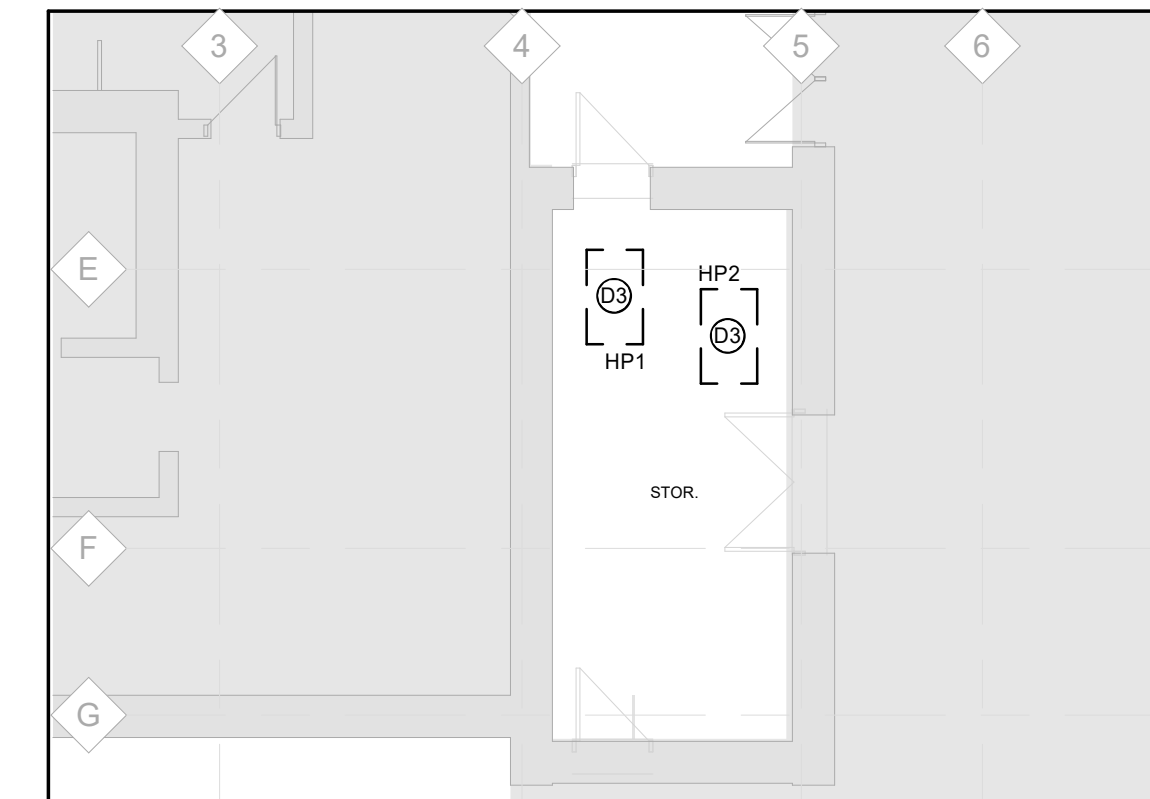
2 LEVEL 2 WING B - POWER & SYSTEMS - MUSIC ROOM
ED02 Scale: 1 : 100



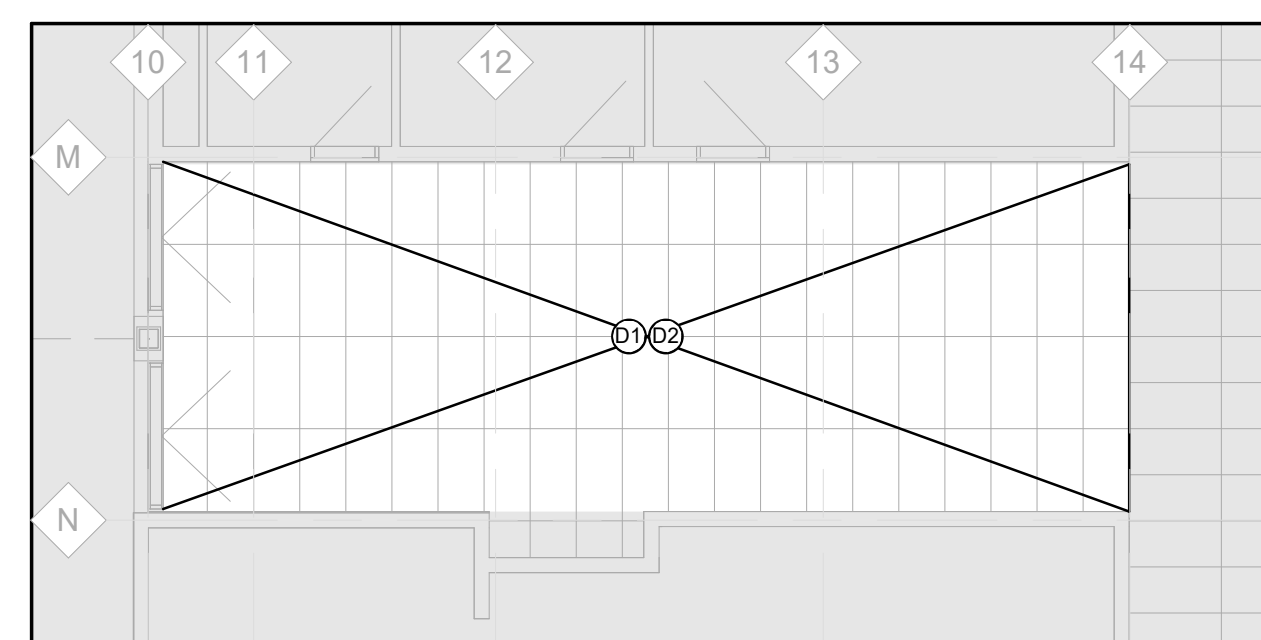
3 LEVEL 2 WING B - POWER & SYSTEMS - ST AC
ED02 Scale: 1 : 100



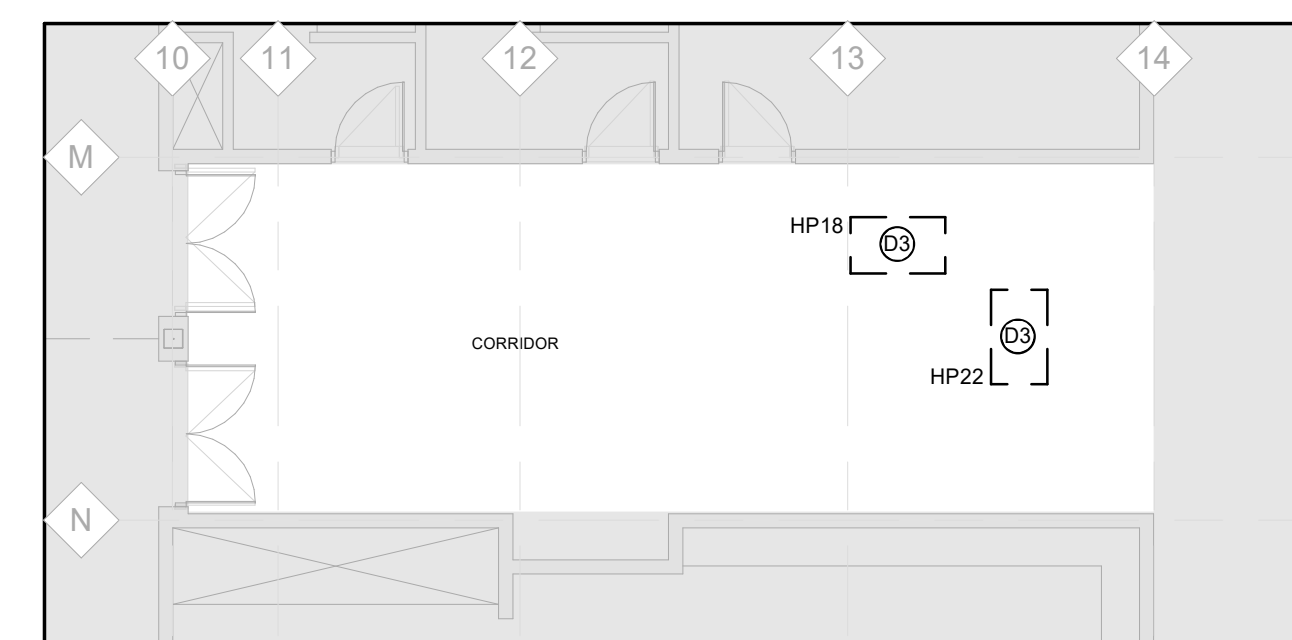
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ED02 Scale: 1 : 100



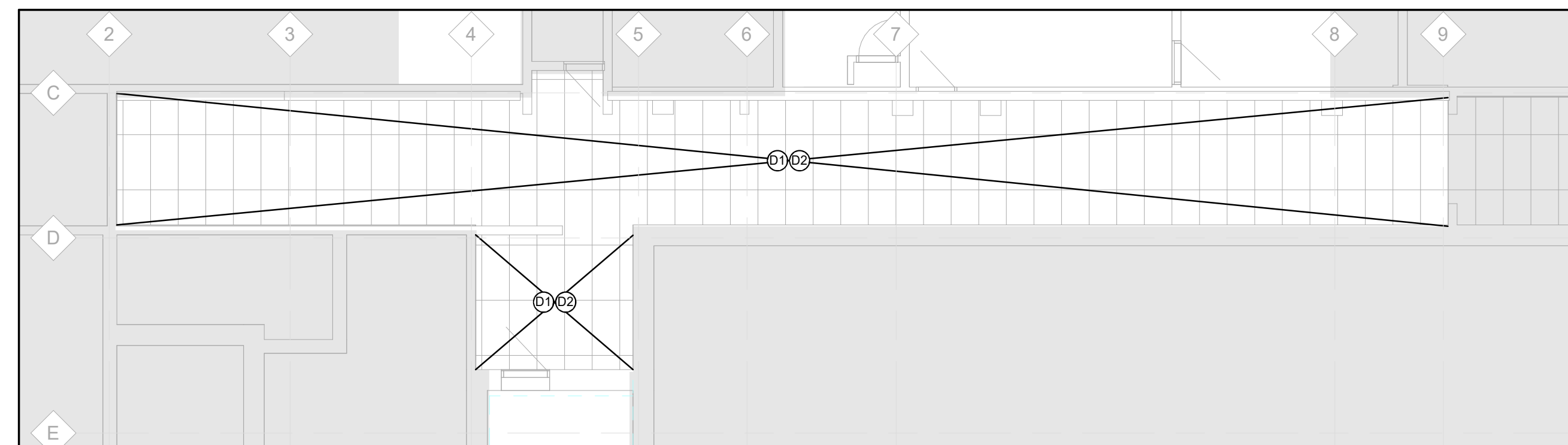
5 LEVEL 2 WING B - POWER & SYSTEMS - STORAGE
ED02 Scale: 1 : 100



6 LEVEL 2 WING B - LIGHTING - CORRIDOR B
ED02 Scale: 1 : 100

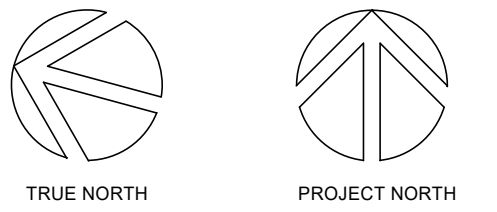
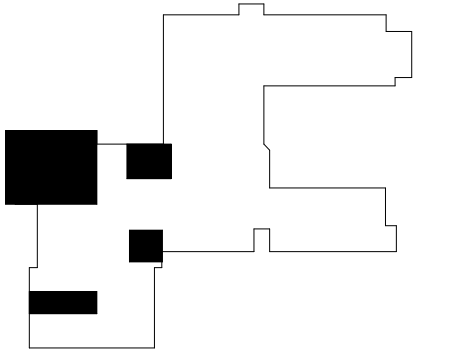


7 LEVEL 2 WING B - POWER & SYSTEMS - CORRIDOR B
ED02 Scale: 1 : 100



8 LEVEL 2 WING B - LIGHTING - CORRIDOR A
ED02 Scale: 1 : 100

- DEMOLITION NOTES:**
- ① DISCONNECT EXISTING LIGHT FIXTURES THIS AREA. MAINTAIN WIRING IN CEILING FOR RECONNECTION TO NEW LIGHTING.
 - ② EXISTING CEILING MOUNTED DEVICES THIS AREA TO BE DISCONNECTED AND STORED IN SAFE LOCATION OR TEMPORARILY SUPPORTED AS REQUIRED DURING CONSTRUCTION FOR INSTALLATION ON NEW CEILING.
 - ③ DISCONNECT POWER TO EXISTING HEAT PUMPS BEING REMOVED (BY MECHANICAL TRADE). WIRING IS TO BE MAINTAINED AND REWORKED/EXTENDED AS REQUIRED TO SUIT NEW HEAT PUMP LOCATION.
 - ④ REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF CEILING REMOVAL.
 - ⑤ COORDINATE LOCATION OF CONDUITS IN CEILING SPACE WITH CONSULTANT AND GENERAL CONTRACTOR FOR EXTENT OF ADDITIONAL CEILING TILE REMOVAL IF REQUIRED.



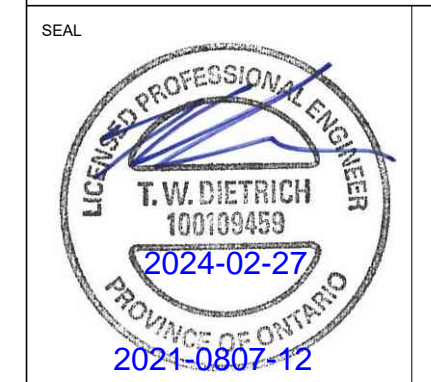
No.	ISSUANCE	DATE
1	ISSUED FOR 60% OWNER REVIEW	2024.01.25
2	ISSUED FOR 90% OWNER REVIEW	2024.02.21
3	ISSUED FOR BID AND PERMIT	2024.02.28

CLIENT
WATERLOO REGIONAL DISTRICT SCHOOL BOARD
51 Ardelt Avenue, Kitchener, ON N2C 2R5

PROJECT
JACOB HESPELER SS HEAT PUMP REPLACEMENT
355 Holiday Inn Dr, Cambridge, ON, N3H 1Z2

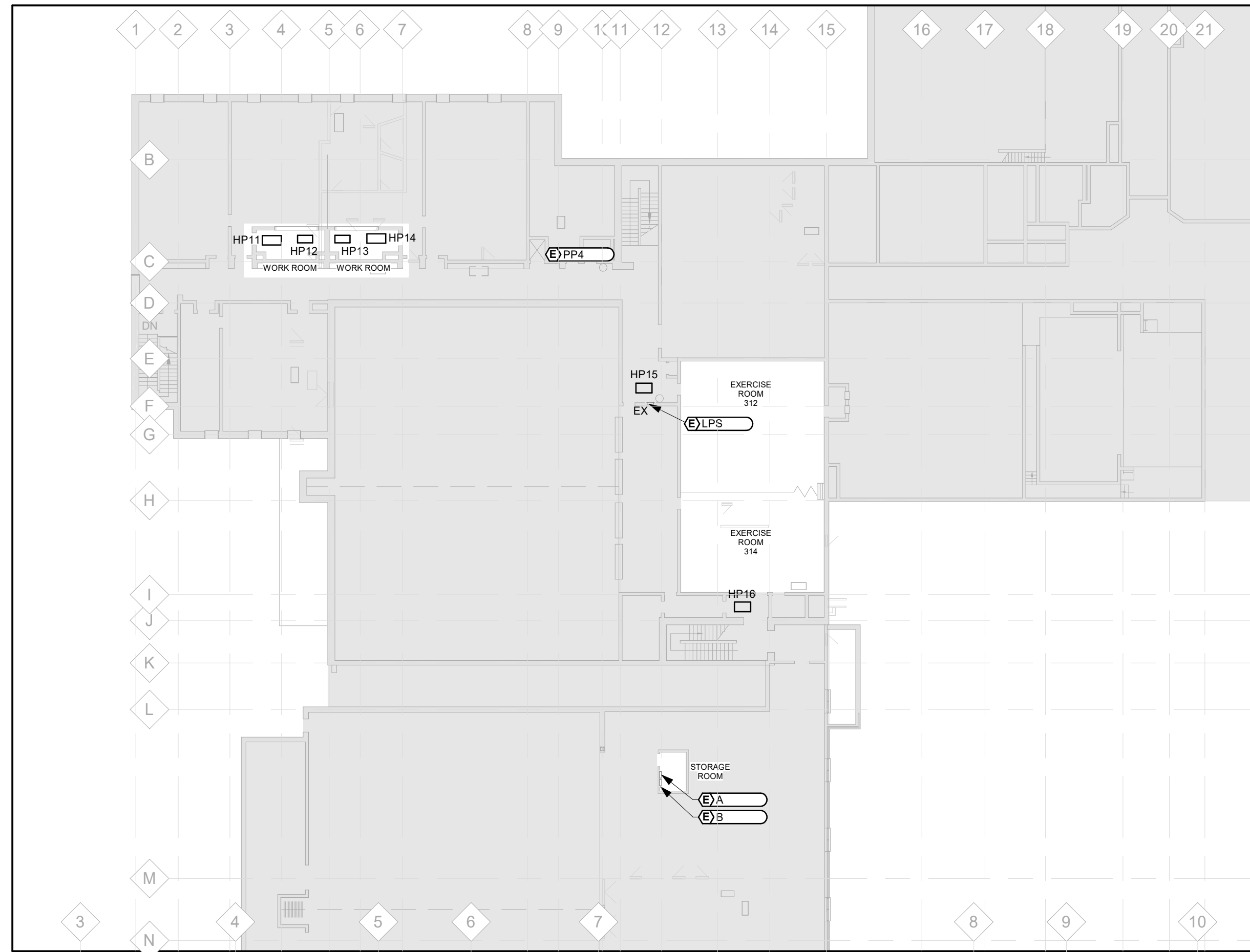
TITLE
ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 02 - WING B

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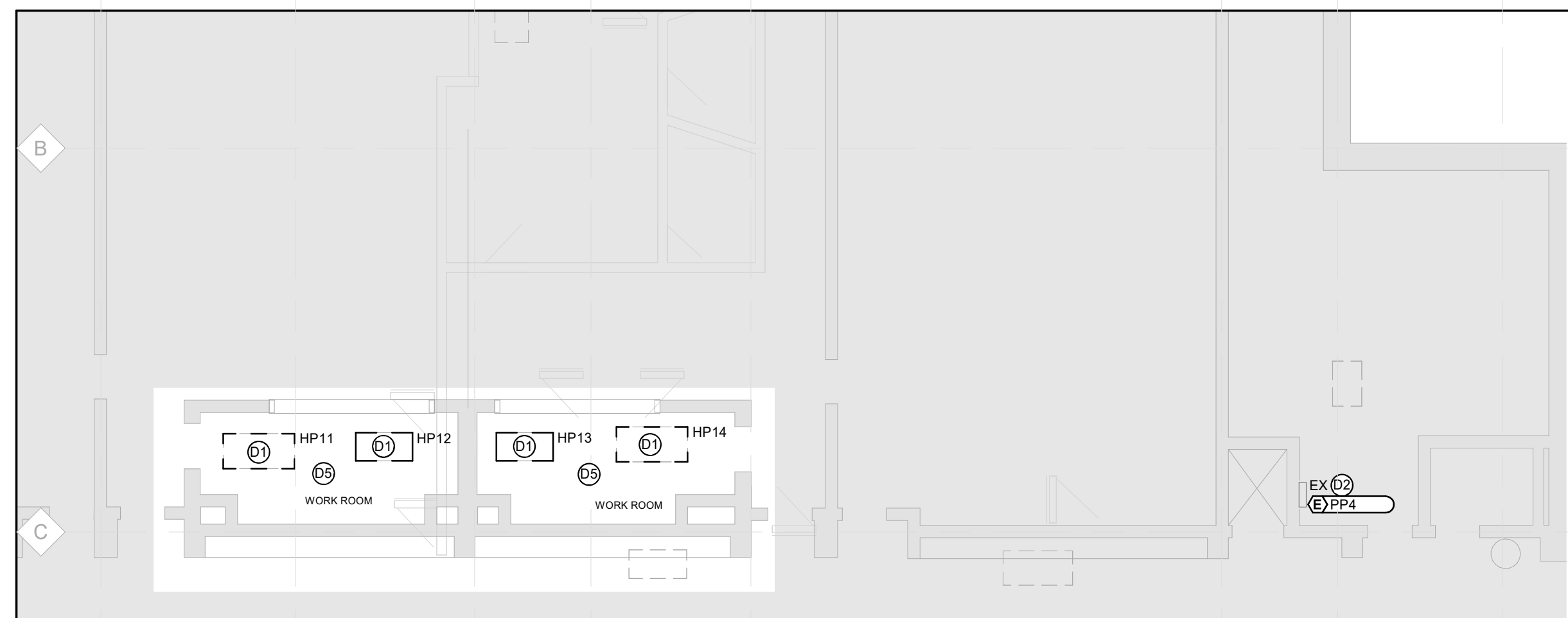


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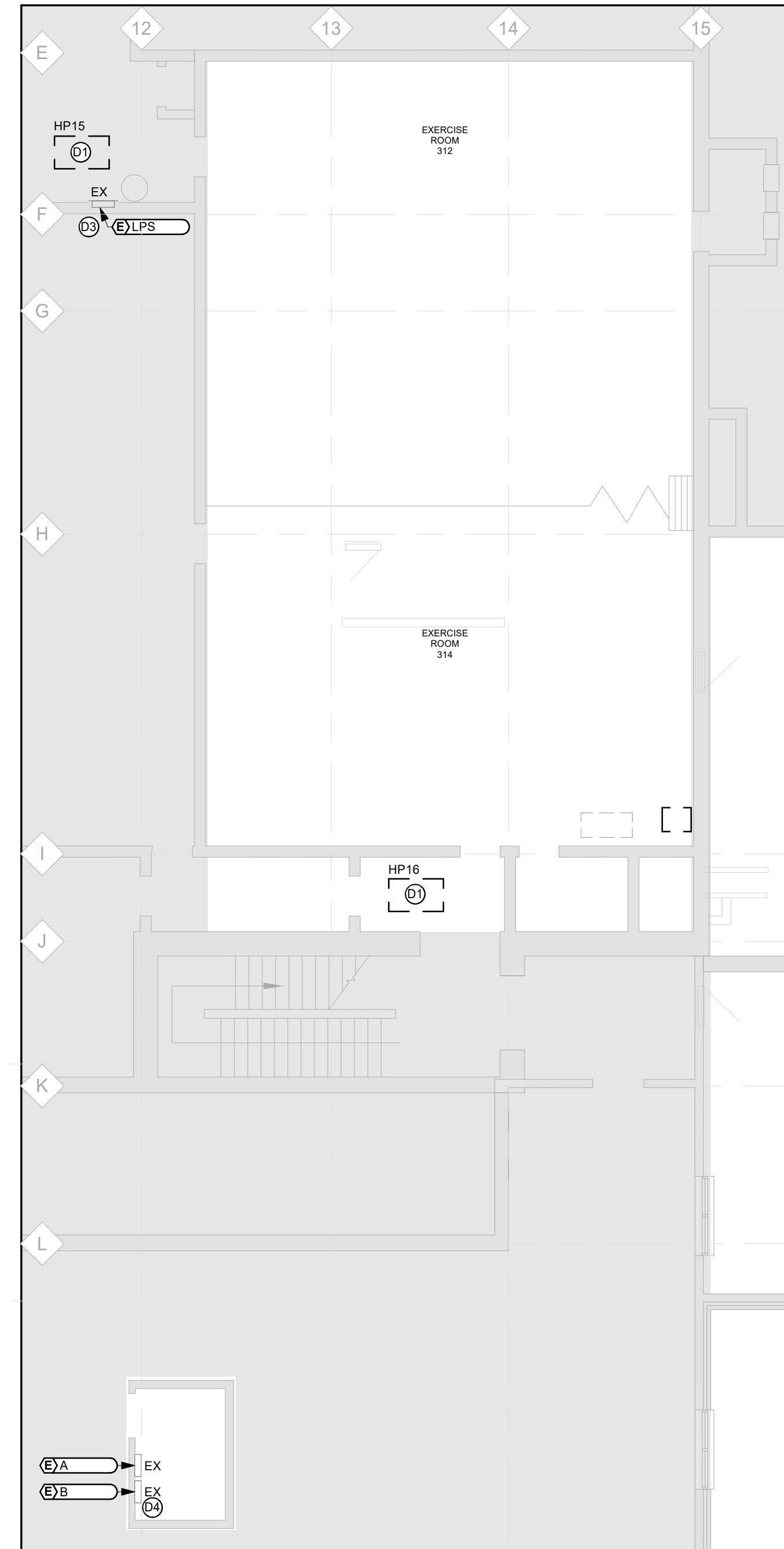
SCALE:	As indicated	SHEET NO:	ED02
DATE:	07/30/21		
PROJECT NO:	2021-0807-12		
DRAWN BY:	D.E.		
CHECKED BY:	T.D.		



1 OVERALL FLOOR PLAN LEVEL 03 - WING B
ED03 Scale: 1 : 300

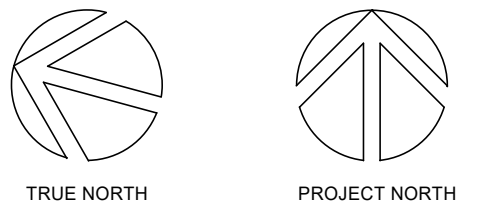
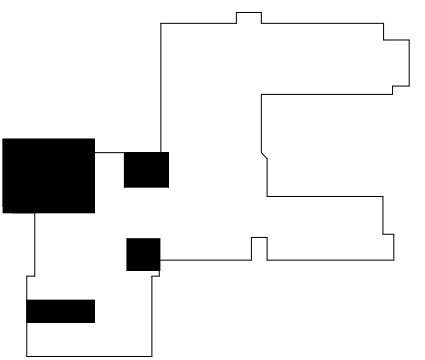


2 LEVEL 3 POWER & SYSTEMS - WORK ROOM Copy 1
ED03 Scale: 1 : 100



3 LEVEL 3 POWER & SYSTEMS - EXERCISE ROOM Copy 1
ED03 Scale: 1 : 100

- DEMOLITION NOTES:
- ①1 DISCONNECT POWER TO EXISTING HEAT PUMPS BEING REMOVED (BY MECHANICAL TRADE). WIRING IS TO BE MAINTAINED AND REWORKED/EXTENDED AS REQUIRED TO SUIT NEW HEAT PUMP LOCATION. REFER TO WIRING FOR MECHANICAL EQUIPMENT SCHEDULE AND ASSOCIATED NOTES FOR ADDITIONAL INFORMATION.
 - ②2 EXISTING PANEL PP4. REUSE BREAKERS FEEDING EXISTING HEAT PUMPS TO FEED NEW HEAT PUMPS WHERE APPLICABLE OR PROVIDE NEW BREAKERS AS REQUIRED TO FEED NEW EQUIPMENT. REWORK EXISTING WIRING OR PROVIDE NEW TO FEED EQUIPMENT WHERE REQUIRED.
 - ③3 EXISTING PANEL LPS. REUSE BREAKERS FEEDING EXISTING HEAT PUMPS TO FEED NEW HEAT PUMPS WHERE APPLICABLE OR PROVIDE NEW BREAKERS AS REQUIRED TO FEED NEW EQUIPMENT. REWORK EXISTING WIRING OR PROVIDE NEW TO FEED EQUIPMENT WHERE REQUIRED.
 - ④4 EXISTING PANEL LPB (FEEDS HEAT PUMPS HP18 AND HP22 ON FLOOR BELOW).
 - ⑤5 EXISTING CEILING MOUNTED LIGHTING AND DEVICES THIS AREA TO BE DISCONNECTED AND STORED IN SAFE LOCATION OR TEMPORARILY SUPPORTED AS REQUIRED DURING CONSTRUCTION FOR INSTALLATION ON NEW CEILING.
 - ⑥6 REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF CEILING REMOVAL.
 - ⑦7 COORDINATE LOCATION OF CONDUITS IN CEILING SPACE WITH CONSULTANT AND GENERAL CONTRACTOR FOR EXTENT OF ADDITIONAL CEILING TILE REMOVAL IF REQUIRED.



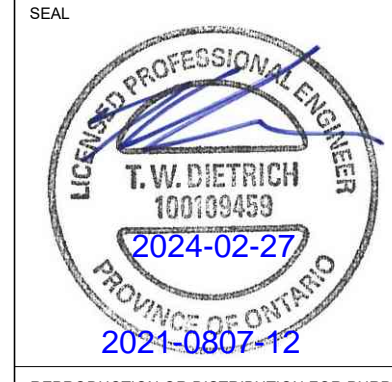
No.	ISSUANCE	DATE
1	ISSUED FOR 60% OWNER REVIEW	2024.01.25
2	ISSUED FOR 90% OWNER REVIEW	2024.02.21
3	ISSUED FOR BID AND PERMIT	2024.02.28

CLIENT
WATERLOO REGIONAL DISTRICT SCHOOL BOARD
51 Ardelt Avenue, Kitchener, ON N2C 2R5

PROJECT
JACOB HESPELER SS HEAT PUMP REPLACEMENT
355 Holiday Inn Dr, Cambridge, ON, N3H 1Z2

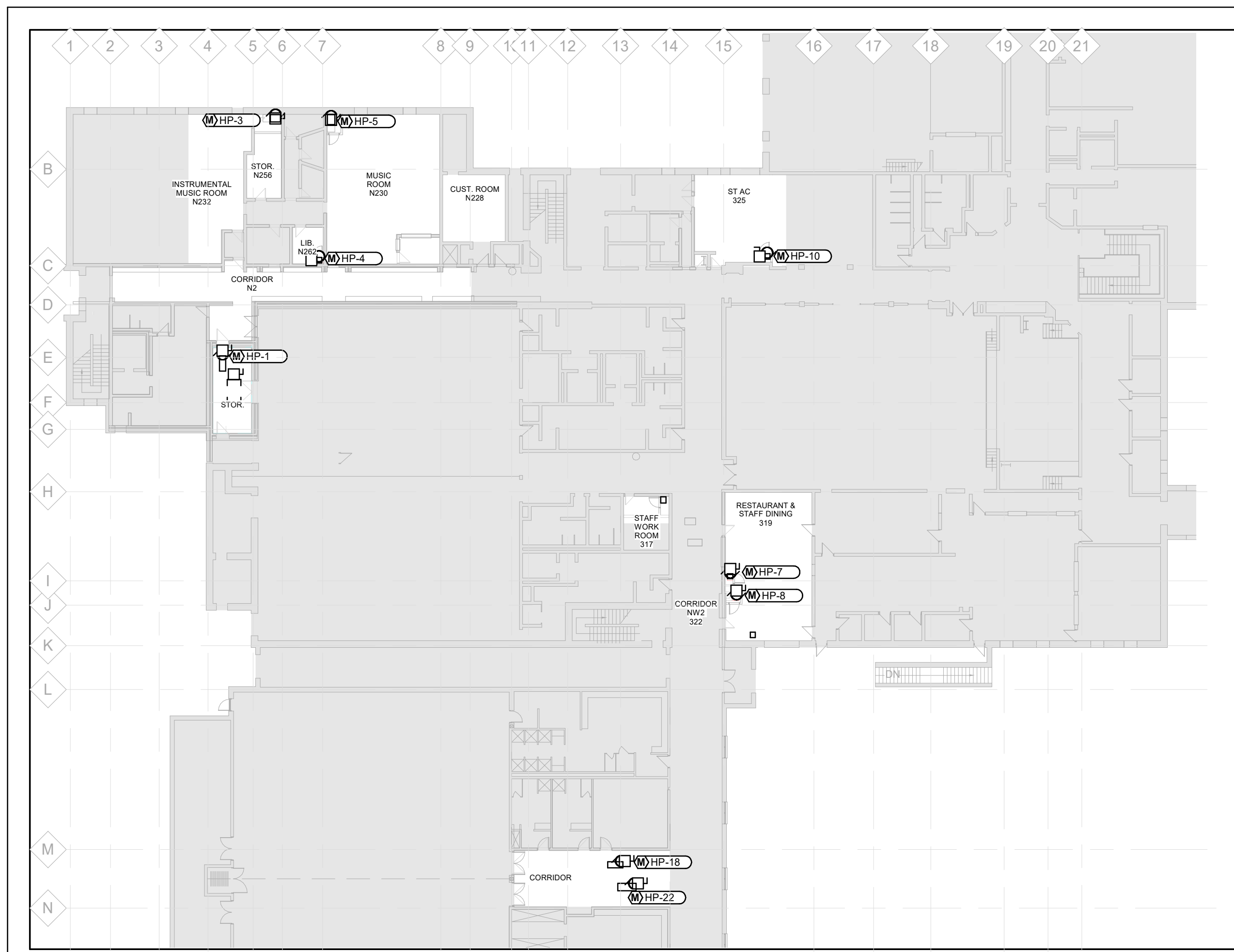
TITLE
ELECTRICAL DEMOLITION FLOOR PLAN - LEVEL 03 - WING B

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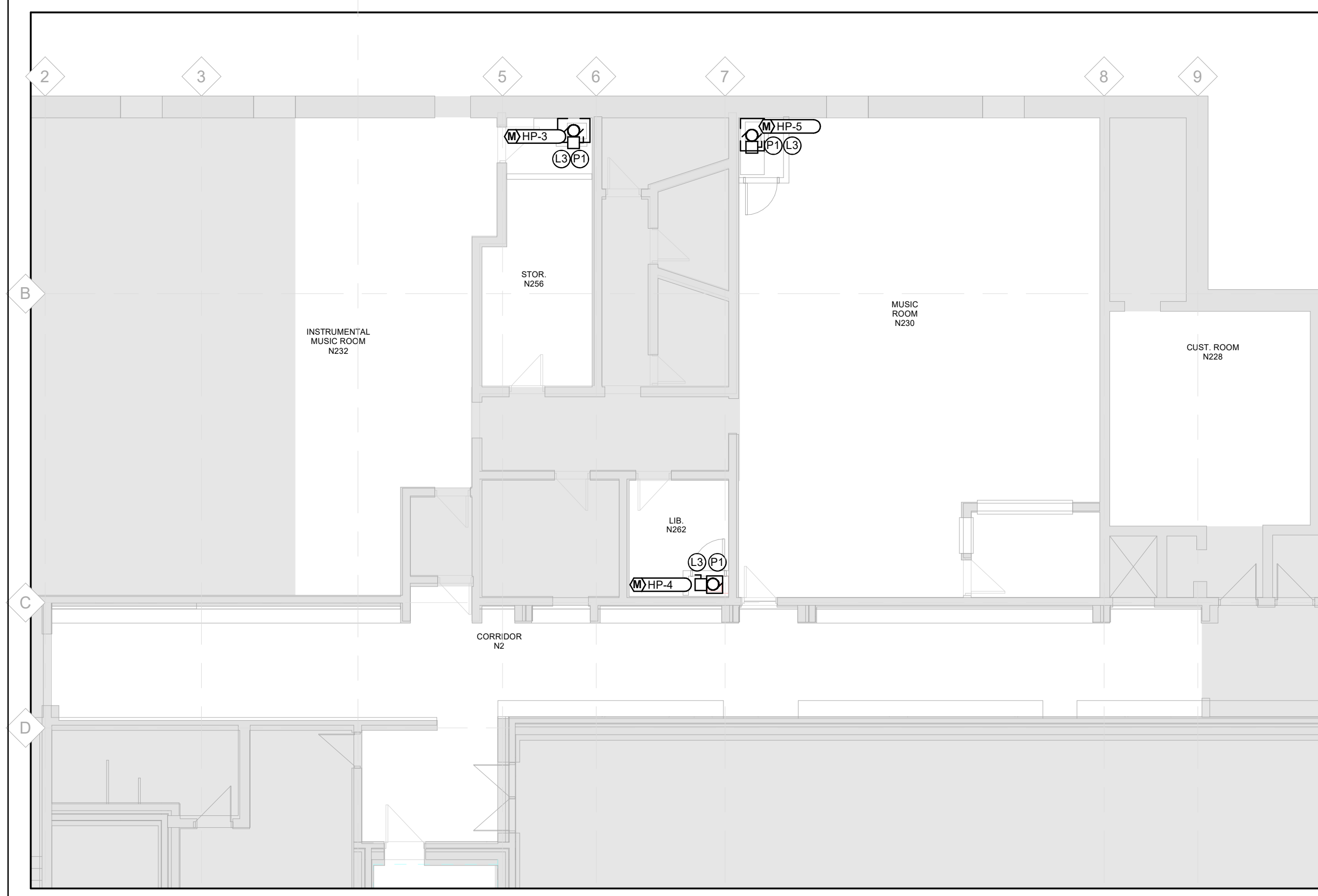


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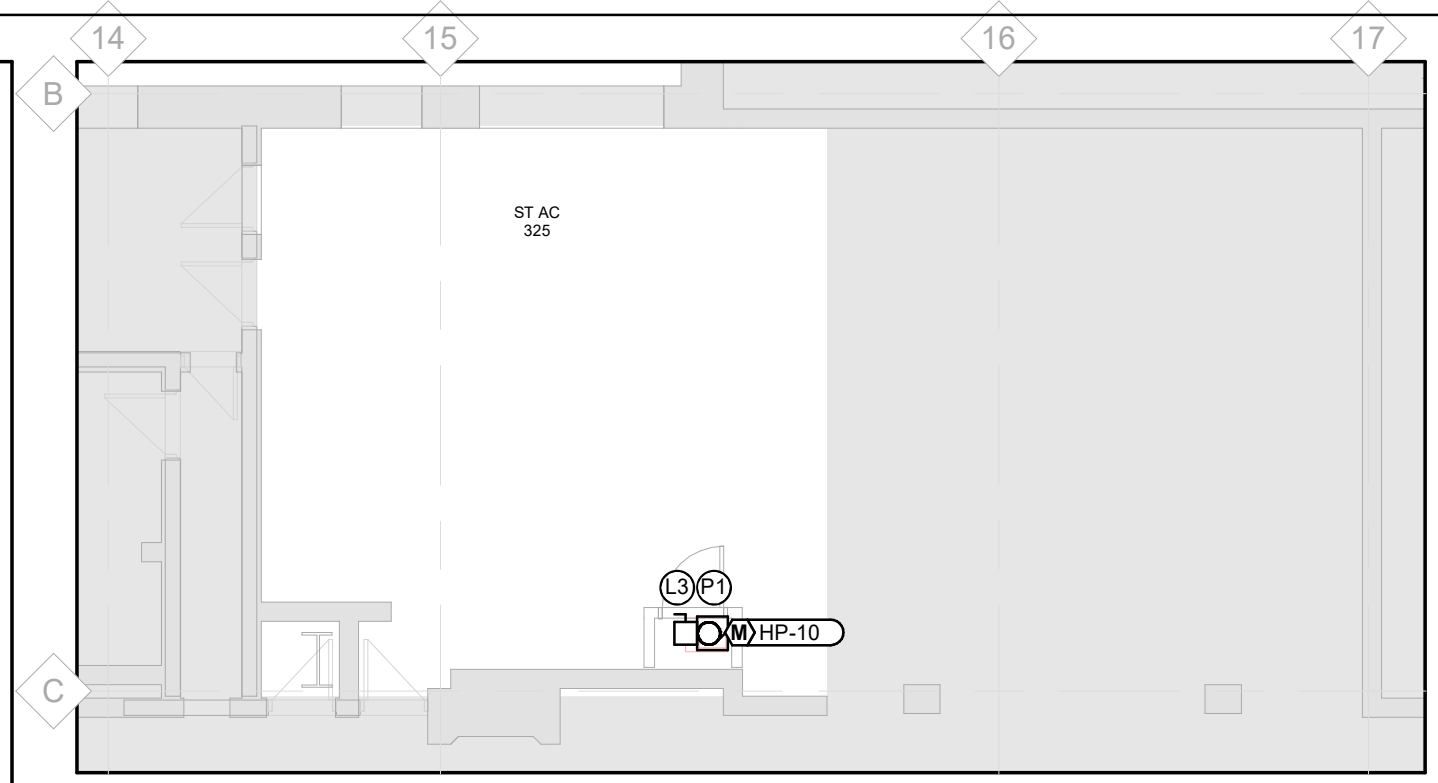
SCALE:	As indicated	SHEET NO:	ED03
DATE:	01/24/24		
PROJECT NO:	2021-0807-12		
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CHECKED BY:	T.D.		



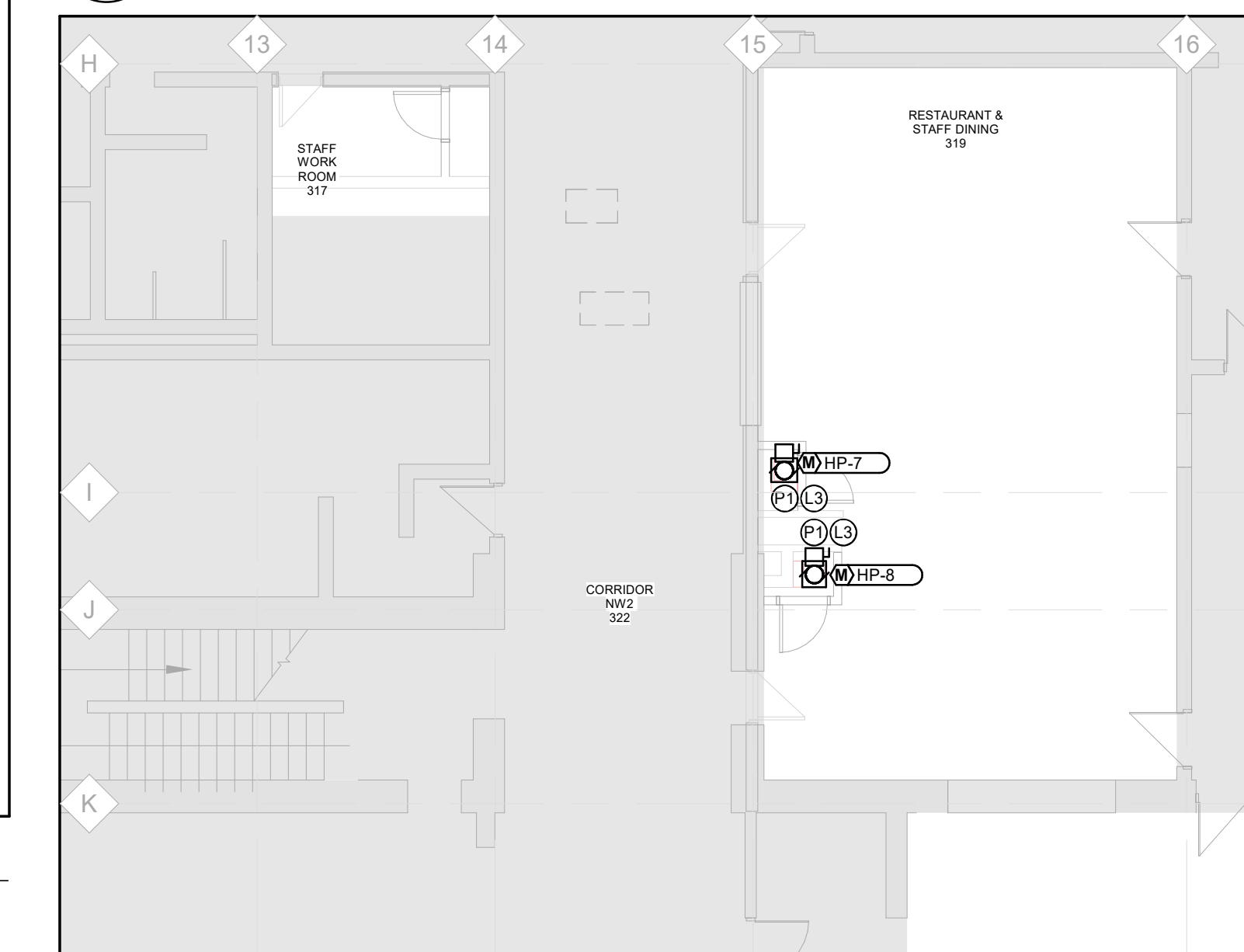
1 LEVEL 2 POWER & SYSTEMS - OVERALL
E301 Scale: 1 : 300



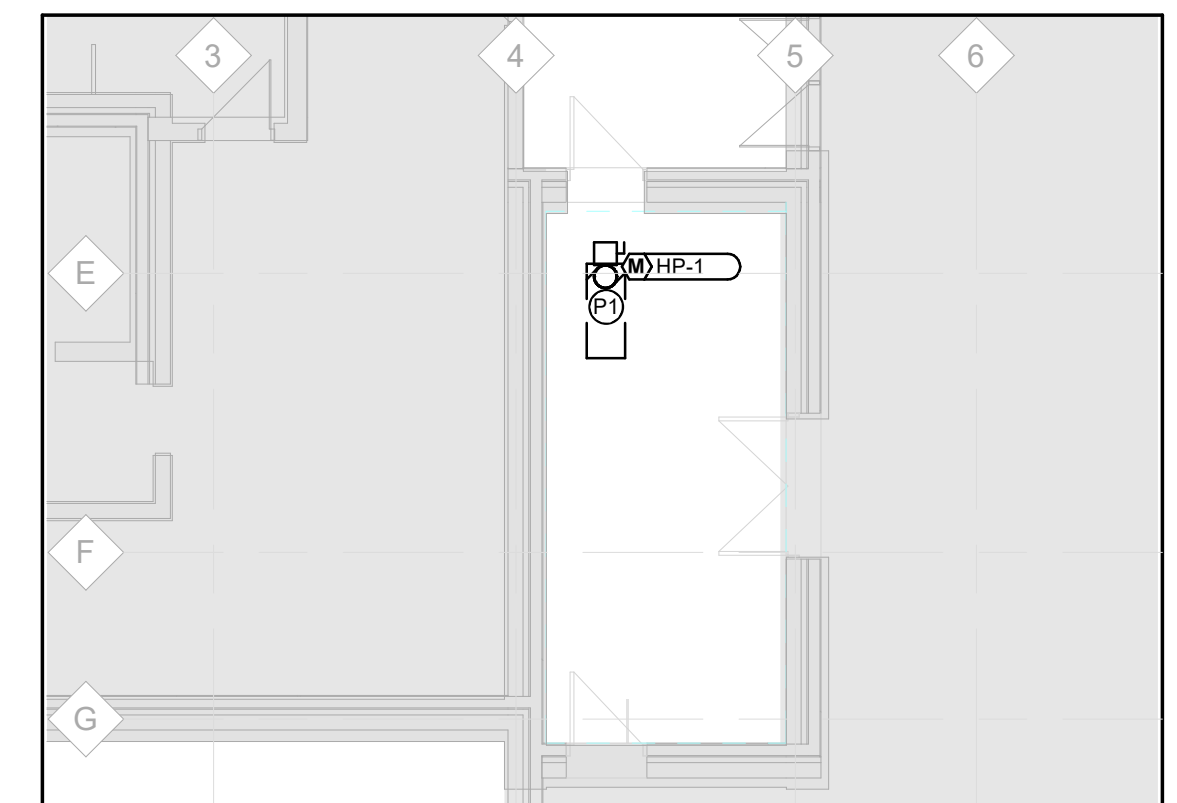
2 L2-POWER & SYSTEMS - MUSIC ROOM
E301 Scale: 1 : 100



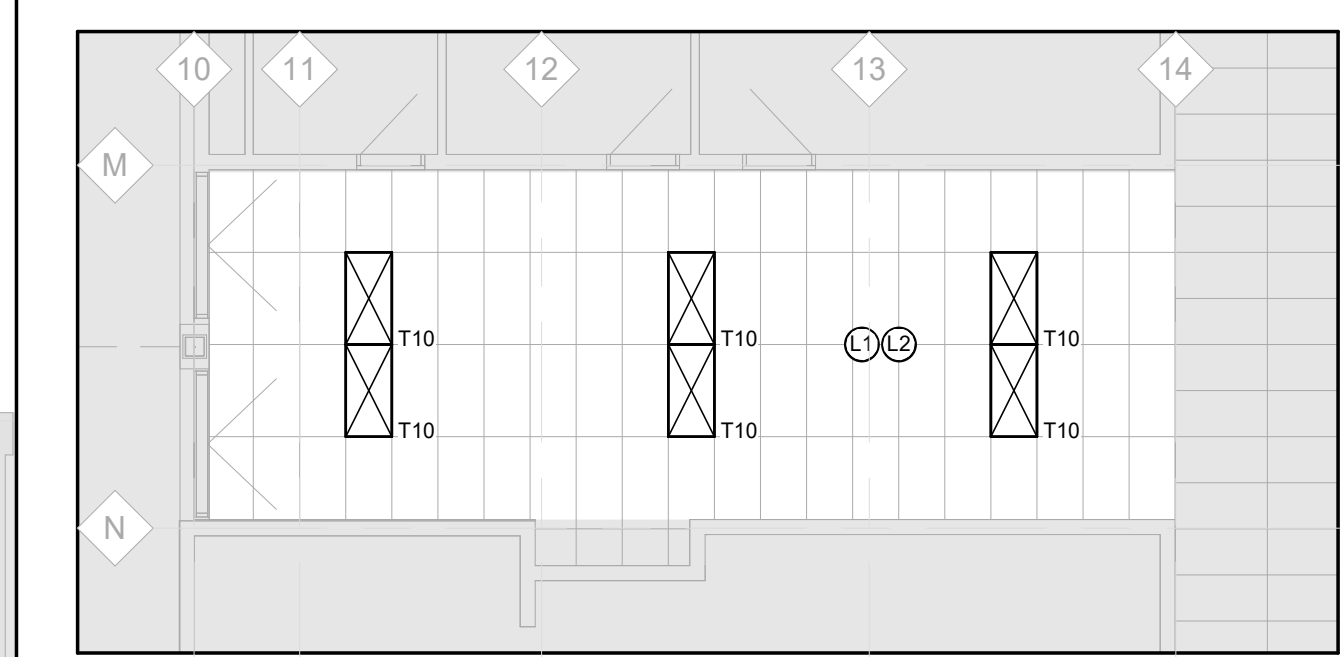
3 LEVEL 2 POWER & SYSTEMS - ST AC
E301 Scale: 1 : 100



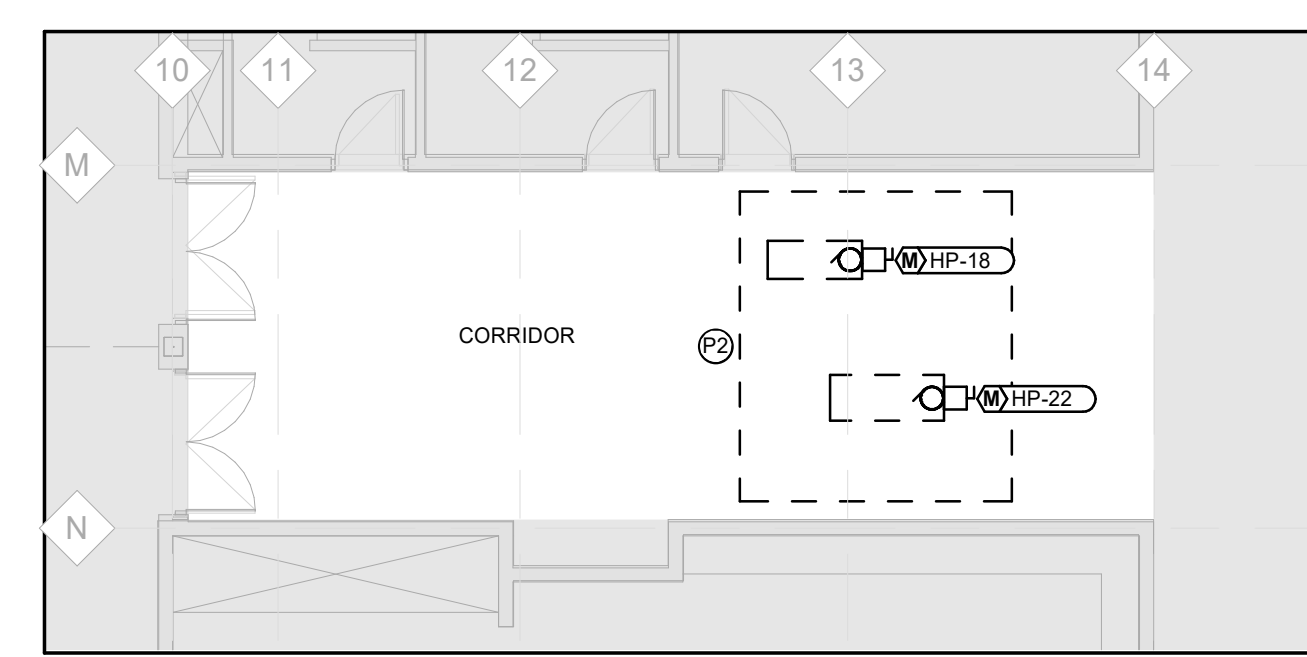
4 LEVEL 2 POWER & SYSTEMS - CORRIDOR NW2
E301 Scale: 1 : 100



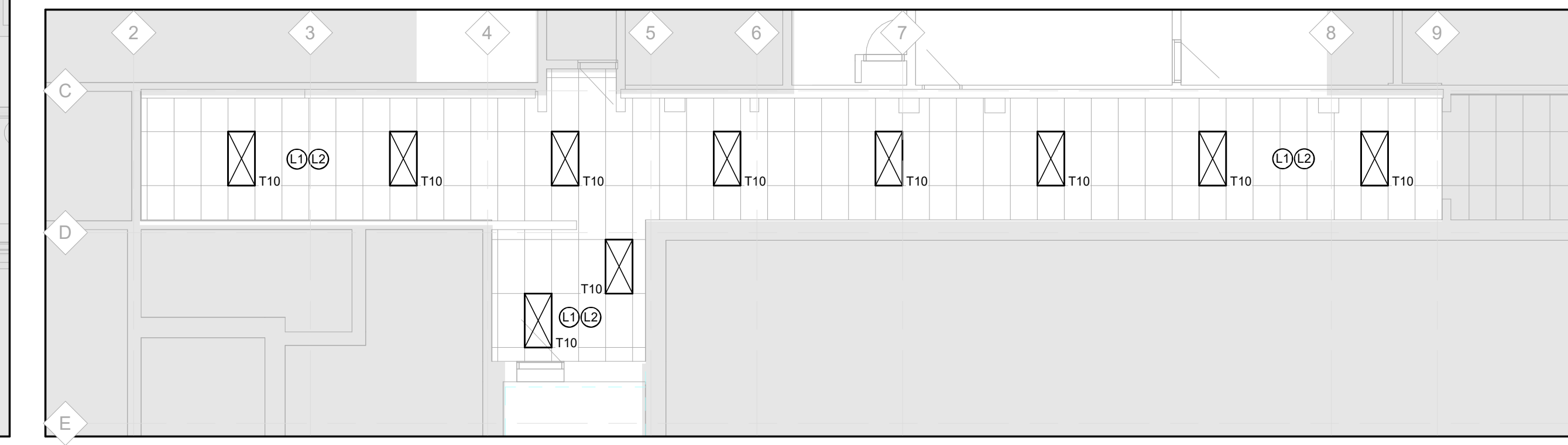
5 LEVEL 2 POWER & SYSTEMS - STORAGE
E301 Scale: 1 : 100



6 LEVEL 2 LIGHTING - CORRIDOR B
E301 Scale: 1 : 100

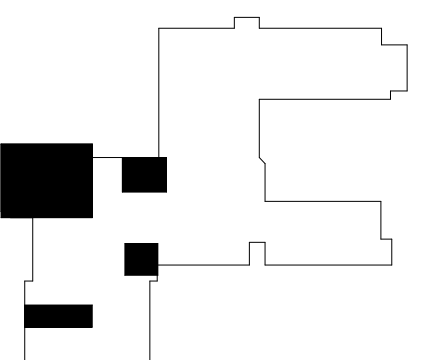


7 LEVEL 2 POWER & SYSTEMS - CORRIDOR B
E301 Scale: 1 : 100



8 LEVEL 2 LIGHTING - CORRIDOR A
E301 Scale: 1 : 100

- LIGHTING NOTES:**
- CONNECT NEW LIGHT FIXTURES TO EXISTING CORRIDOR LIGHTING CIRCUIT THIS AREA.
 - REINSTALL EXISTING CEILING MOUNTED DEVICES (INCLUDING BUT NOT LIMITED TO OCCUPANCY SENSORS, FIRE DETECTORS, SPEAKERS, ETC.) IN ORIGINAL LOCATIONS ON NEW CEILING.
 - PROVIDE NEW LIGHT FIXTURE (CW INTEGRAL OCCUPANCY SENSOR AND LOCAL LIGHT SWITCH) IN NEW HEAT PUMP ENCLOSURES WHERE THERE IS NO EXISTING LIGHT SOURCE AND WIRE TO LOCAL AREA LIGHTING CIRCUIT.
- POWER AND SYSTEMS NOTES:**
- PROVIDE NEW BREAKERS TO FEED NEW HEAT PUMPS COMPLETE WITH CONDUIT AND WIRING. EXISTING BREAKERS FEEDING HEAT PUMPS BEING REMOVED MAY BE REUSED TO FEED NEW HEAT PUMPS WHERE SUITABLY SIZED AND IN GOOD CONDITION. EXISTING CONDUIT AND WIRING FEEDING EXISTING HEAT PUMPS MAY BE REUSED/REWORKED (WHERE SUITABLY SIZED) TO FEED NEW HEAT PUMPS.
 - ENSURE NO CEILING MOUNTED DEVICES ARE MOUNTED BELOW HEAT PUMPS IN THIS AREA TO ALLOW FOR FUTURE MAINTENANCE.
 - REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF CEILING REMOVAL.
 - COORDINATE LOCATION OF CONDUITS IN CEILING SPACE WITH CONSULTANT AND GENERAL CONTRACTOR FOR EXTENT OF ADDITIONAL CEILING TILE REMOVAL IF REQUIRED.
 - REFER TO DRAWING E901 FOR WIRING FOR MECHANICAL EQUIPMENT SCHEDULE AND ASSOCIATED NOTES FOR ADDITIONAL INFORMATION.



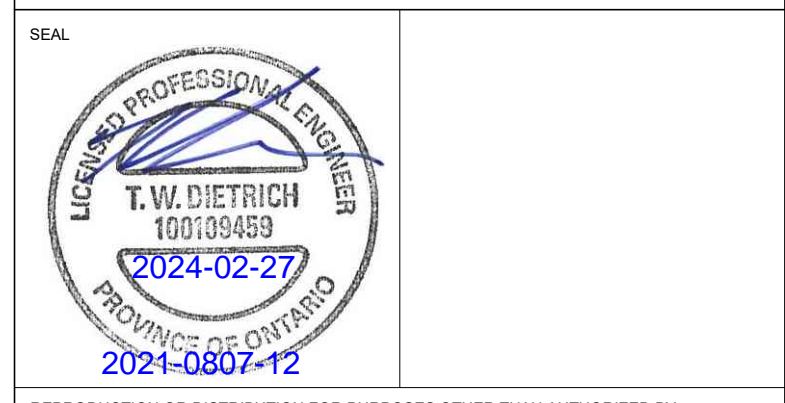
No.	ISSUANCE	DATE
1	ISSUED FOR 60% OWNER REVIEW	2024.01.25
2	ISSUED FOR 90% OWNER REVIEW	2024.02.21
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CLIENT
WATERLOO REGIONAL DISTRICT SCHOOL BOARD
51 Ardelt Avenue, Kitchener, ON N2C 2R5

PROJECT
JACOB HESPELER SS HEAT PUMP REPLACEMENT
355 Holiday Inn Dr, Cambridge, ON, N3H 1Z2

TITLE
ELECTRICAL RENOVATION FLOOR PLAN - LEVEL 02 - WING B

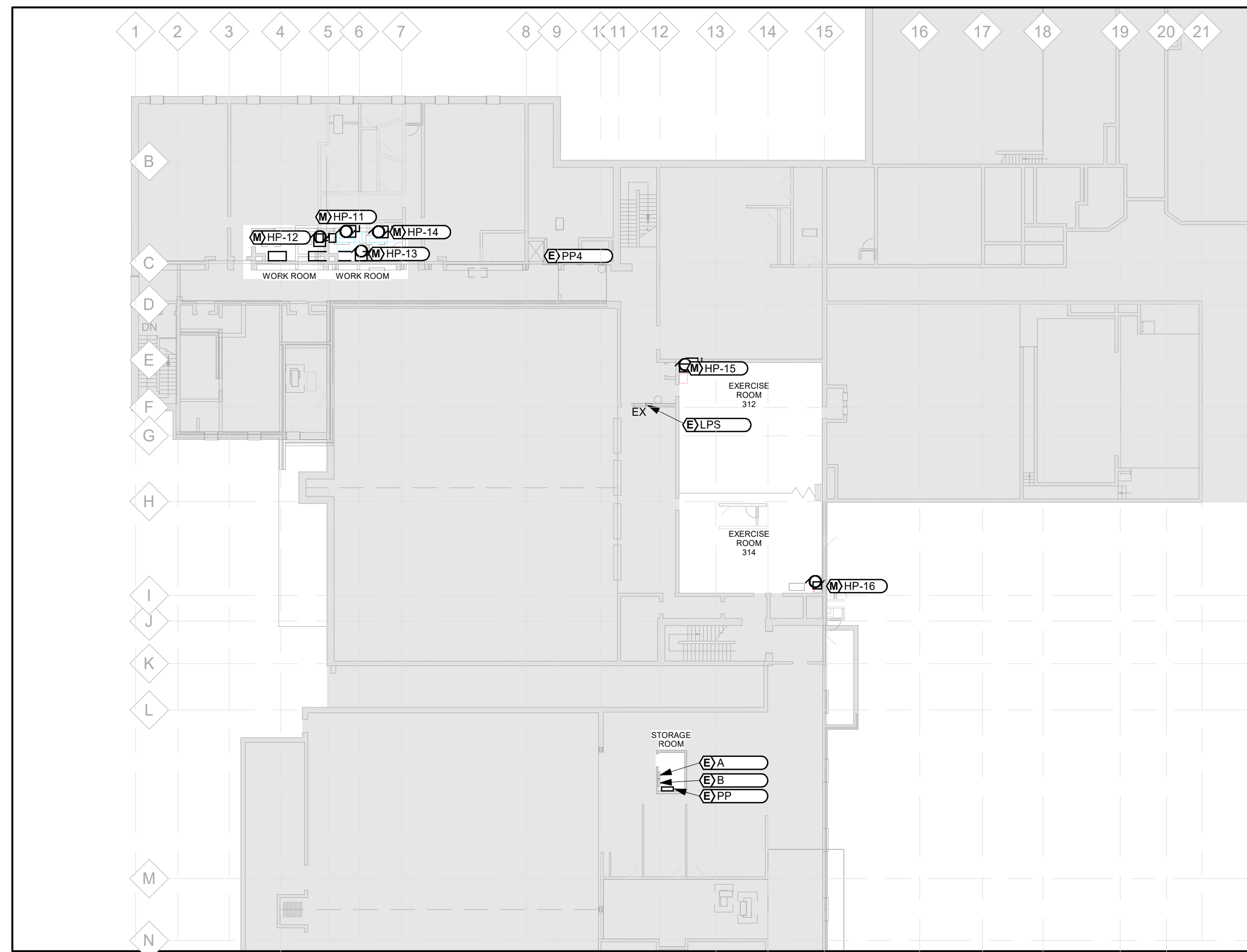
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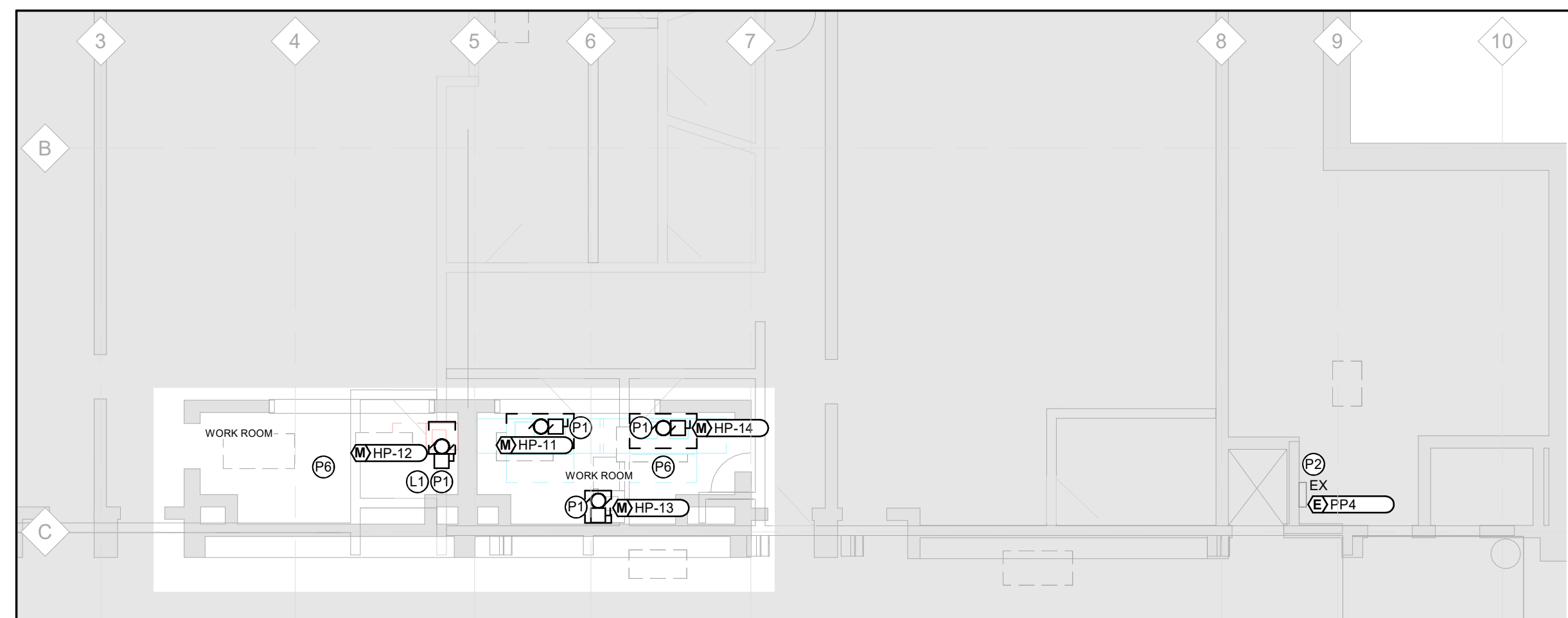
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SCALE: As indicated
DATE: 07/30/21
PROJECT NO: 2021-0807-12
DRAWN BY: D.E.
CHECKED BY: T.D.

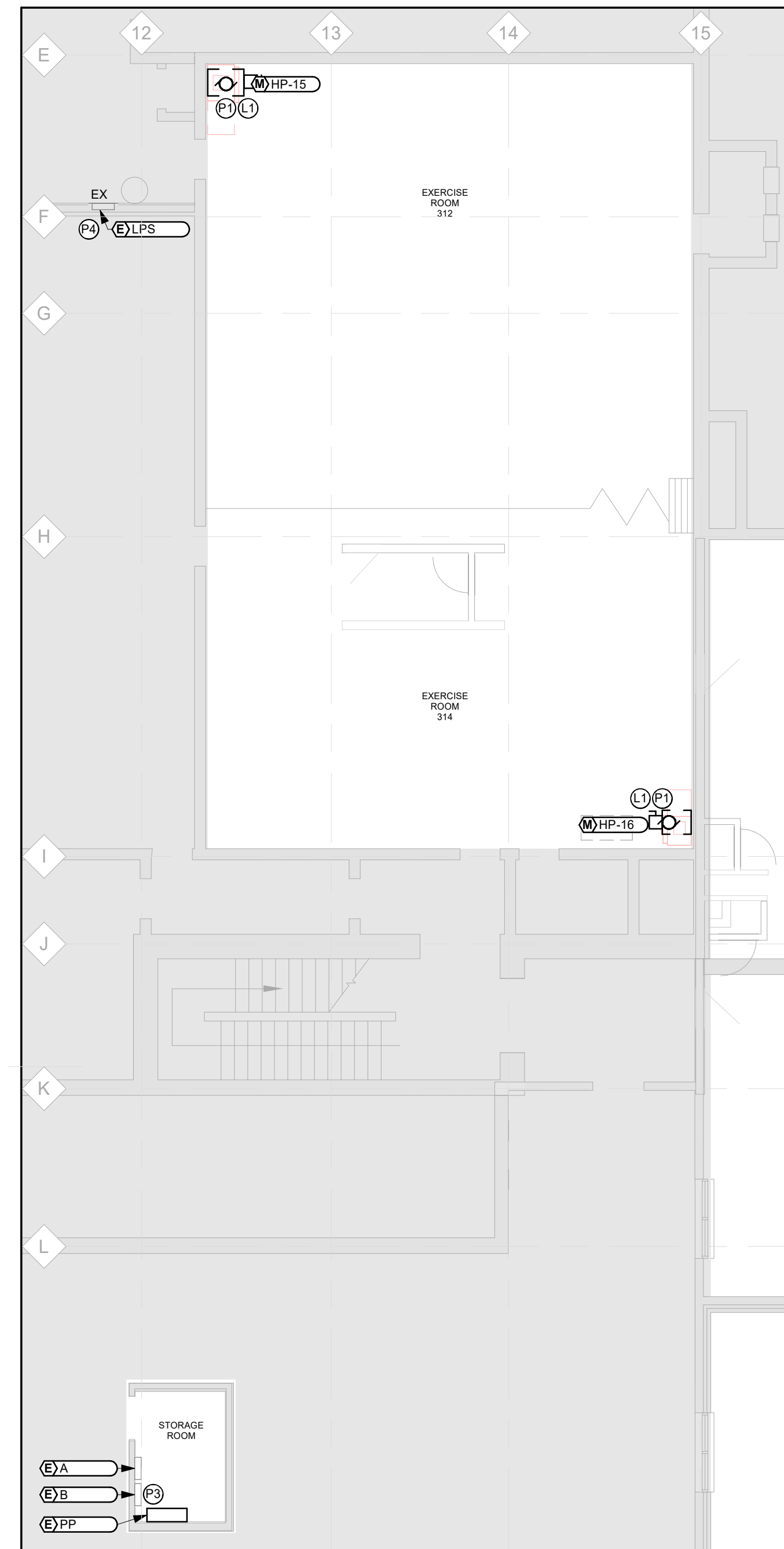
E301



1 OVERALL FLOOR PLAN LEVEL 03 - WING B
E302 Scale: 1 : 300

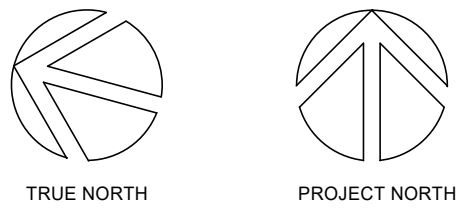
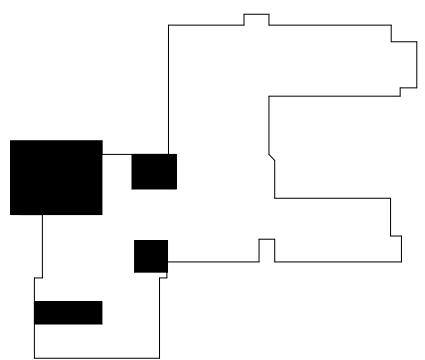


2 LEVEL 3 POWER & SYSTEMS - WORK ROOM
E302 Scale: 1 : 100



3 LEVEL 3 POWER & SYSTEMS - EXERCISE ROOM
E302 Scale: 1 : 100

- LIGHTING NOTE:**
- ① PROVIDE NEW LIGHT FIXTURE (CW INTEGRAL OCCUPANCY SENSOR AND LOCAL LIGHT SWITCH) IN NEW HEAT PUMP ENCLOSURES WHERE THERE IS NO EXISTING LIGHT SOURCE AND WIRE TO LOCAL AREA LIGHTING CIRCUIT.
- POWER AND SYSTEMS NOTES:**
- ① RECONNECT NEW HEAT PUMP TO EXISTING HEAT PUMP CIRCUIT WHERE NEW LOAD DOES NOT EXCEED ORIGINAL LOAD OR CAPACITY OF EXISTING WIRING.
 - ② EXISTING PANEL PP4. PROVIDE NEW BREAKERS TO FEED NEW HEAT PUMPS COMPLETE WITH CONDUIT AND WIRING. EXISTING BREAKERS FEEDING HEAT PUMPS BEING REMOVED MAY BE REUSED TO FEED NEW HEAT PUMPS WHERE SUITABLY SIZED AND IN GOOD CONDITION. EXISTING CONDUIT AND WIRING FEEDING EXISTING HEAT PUMPS MAY BE REUSED/REWORKED (WHERE SUITABLY SIZED) TO FEED NEW HEAT PUMPS.
 - ③ EXISTING PANEL LPB (FEEDS HEAT PUMPS HP18 AND HP22 ON FLOOR BELOW).
 - ④ EXISTING PANEL LPS. PROVIDE NEW BREAKERS TO FEED NEW HEAT PUMPS COMPLETE WITH CONDUIT AND WIRING. EXISTING BREAKERS FEEDING HEAT PUMPS BEING REMOVED MAY BE REUSED TO FEED NEW HEAT PUMPS WHERE SUITABLY SIZED AND IN GOOD CONDITION. EXISTING CONDUIT AND WIRING FEEDING EXISTING HEAT PUMPS MAY BE REUSED/REWORKED (WHERE SUITABLY SIZED) TO FEED NEW HEAT PUMPS.
 - ⑤ REFER TO DRAWING E901 FOR WIRING FOR MECHANICAL EQUIPMENT SCHEDULE AND ASSOCIATED NOTES AND ELECTRICAL PANEL PP-4 DETAILS.
 - ⑥ REINSTALL CEILING MOUNTED LIGHTING AND DEVICES THIS AREA TO SUIT NEW EQUIPMENT LAYOUT AS REQUIRED AND RECONNECT.
 - ⑦ REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT OF CEILING REMOVAL.
 - ⑧ COORDINATE LOCATION OF CONDUITS IN CEILING SPACE WITH CONSULTANT AND GENERAL CONTRACTOR FOR EXTENT OF ADDITIONAL CEILING TILE REMOVAL IF REQUIRED.



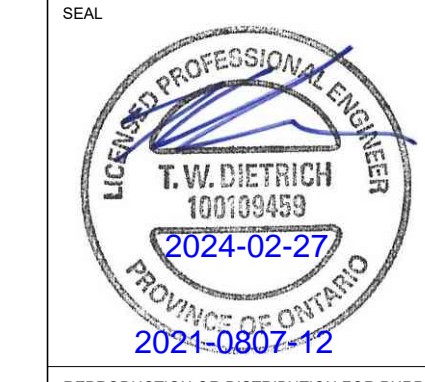
No.	ISSUANCE	DATE
1	ISSUED FOR 60% OWNER REVIEW	2024.01.25
2	ISSUED FOR 90% OWNER REVIEW	2024.02.21
3	ISSUED FOR BID AND PERMIT	2024.02.28

CLIENT
WATERLOO REGIONAL DISTRICT SCHOOL BOARD
51 Ardelt Avenue, Kitchener, ON N2C 2R5

PROJECT
JACOB HESPELER SS HEAT PUMP REPLACEMENT
355 Holiday Inn Dr, Cambridge, ON, N3H 1Z2

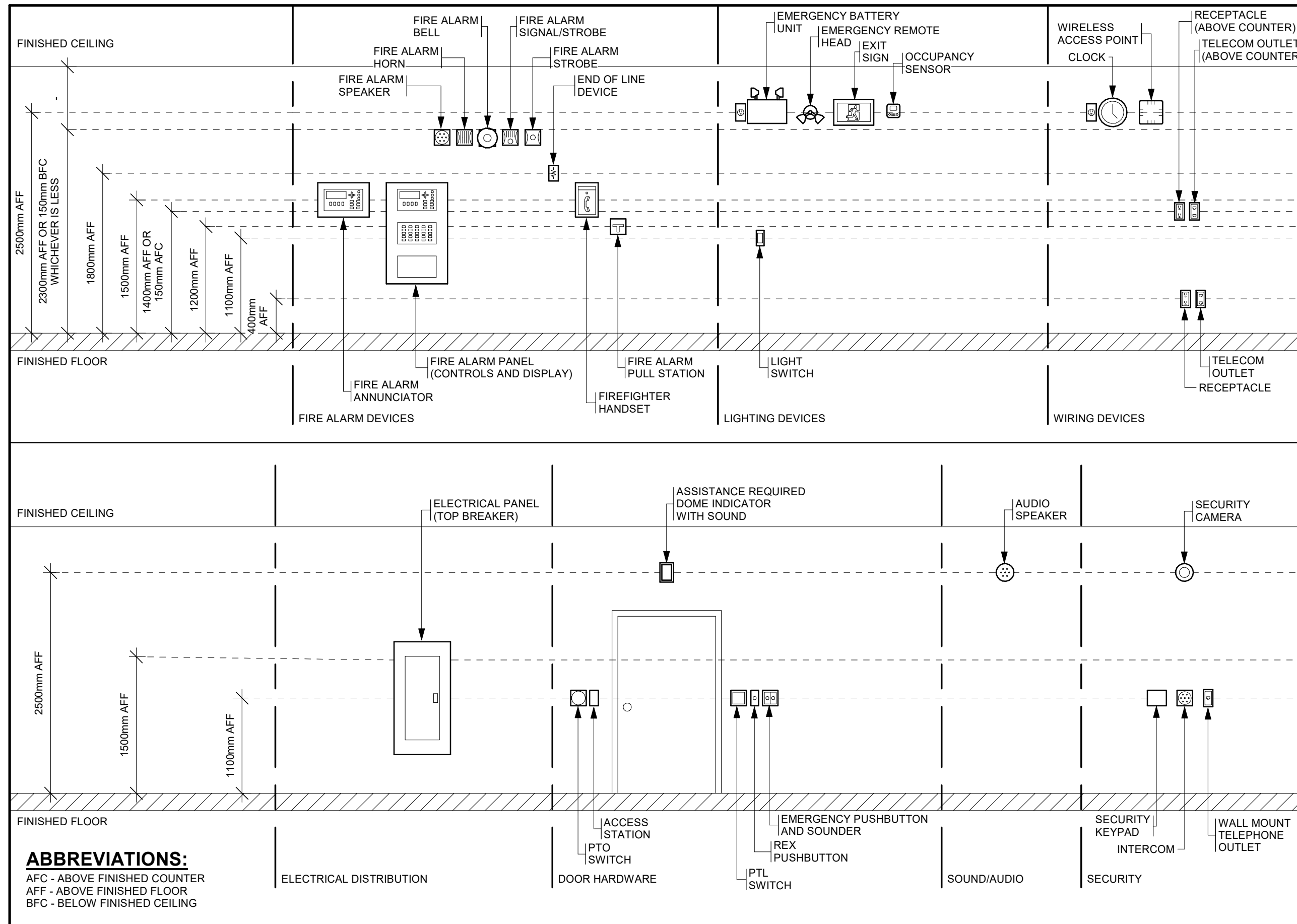
TITLE
ELECTRICAL RENOVATION FLOOR PLAN - LEVEL 03 - WING B

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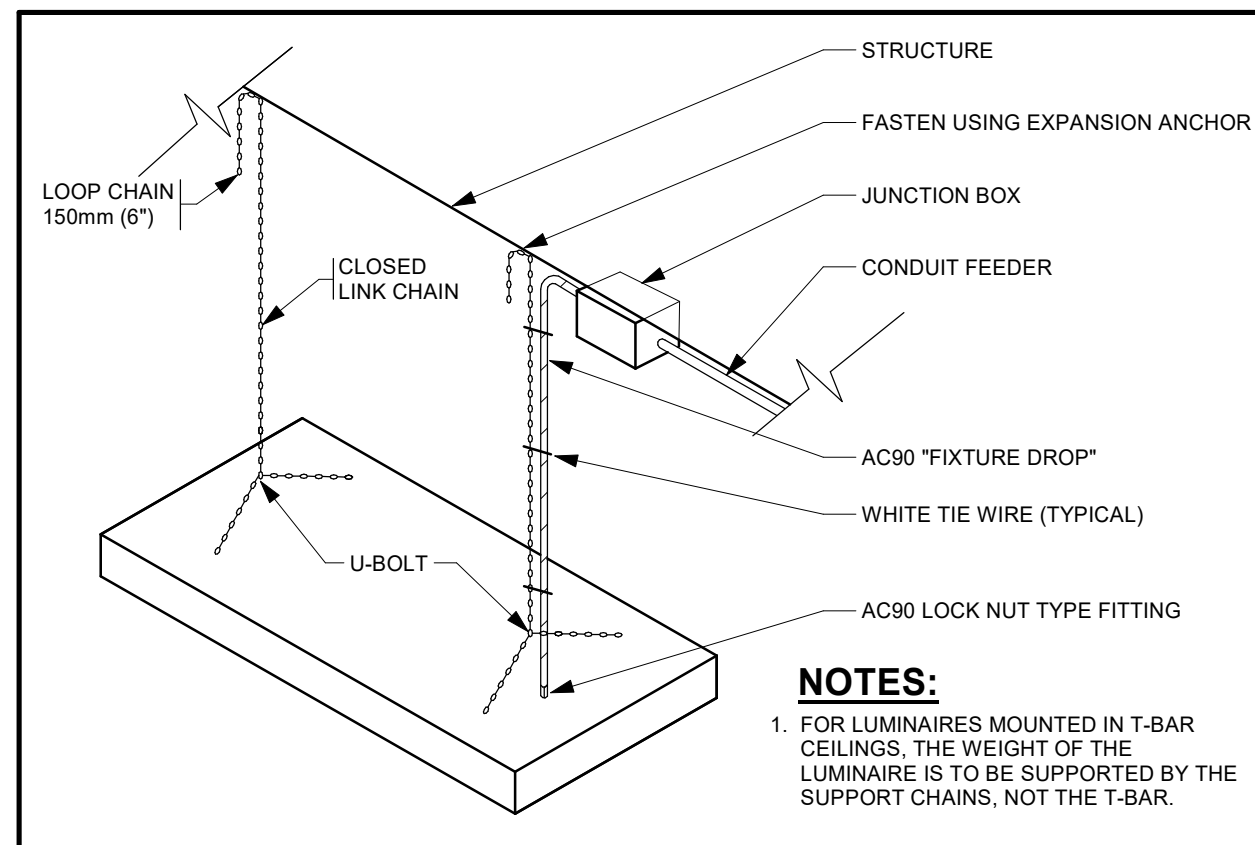


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DATE:	01/24/24		
PROJECT NO:	2021-0807-12		
DRAWN BY:	D.E.		
CHECKED BY:	T.D.		



1 ELECTRICAL STANDARD WALL MOUNTING HEIGHTS DETAIL
 E802 Scale: N.T.S.



2 LUMINAIRE SUSPENSION DETAIL
 E802 Scale: N.T.S.

No.	ISSUANCE	DATE
1	ISSUED FOR 60% OWNER REVIEW	2024.01.25
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CLIENT
WATERLOO REGIONAL DISTRICT SCHOOL BOARD

51 Ardelt Avenue, Kitchener, ON N2C 2R5

PROJECT
JACOB HESPELER SS HEAT PUMP REPLACEMENT

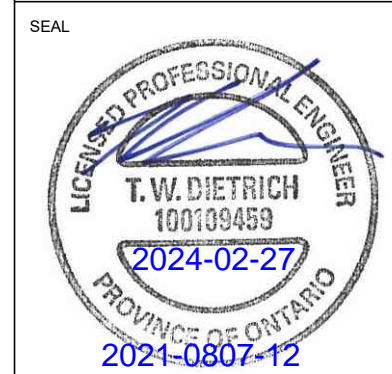
355 Holiday Inn Dr, Cambridge, ON, N3H 1Z2

TITLE
ELECTRICAL DETAILS

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SCALE:	1 : 100	SHEET NO:	E802
DATE:	07/30/21		
PROJECT NO:	2021-0807-12		
DRAWN BY:	D.E.		
CHECKED BY:	T.D.		



WIRING FOR MECHANICAL EQUIPMENT SCHEDULE																			
TAG	EQUIPMENT	LOCATION	NAME	NO.	ELECTRICAL			STARTER		CONTROL			COMMUNICATION	INTERLOCK		MAINTENANCE REC	INTEGRAL LTG	FA SHUTDOWN	REMARKS
					VOLTAGE	PHASE	LOAD	WATTAGE	TYPE	LOCATION	LOCAL	ELECTRICAL		MECHANICAL	TO				
HP-1	WATER SOURCE HEAT PUMP				208 V	1	2.00 kW	INT											REPLACES EXISTING UNIT. PROVIDE 1-30A,2P BREAKER IN PANEL PP-4 TO REPLACE EXISTING. REFER TO NOTE 9.10.
HP-3	WATER SOURCE HEAT PUMP				208 V	1	4.10 kW	INT											REPLACES EXISTING UNIT. PROVIDE 1-60A,2P BREAKER IN PANEL PP-4 TO REPLACE EXISTING. REFER TO NOTE 9.10.
HP-4	WATER SOURCE HEAT PUMP				208 V	1	1.80 kW	INT											REPLACES EXISTING UNIT. PROVIDE 1-25A,2P BREAKER IN PANEL PP-4 TO REPLACE EXISTING. REFER TO NOTE 9.10.
HP-5	WATER SOURCE HEAT PUMP				208 V	1	4.10 kW	INT											REPLACES EXISTING UNIT. PROVIDE 1-60A,2P BREAKER IN PANEL PP-4 TO REPLACE EXISTING. REFER TO NOTE 9.10.
HP-7	WATER SOURCE HEAT PUMP				208 V	1	1.80 kW	INT											REPLACES EXISTING UNIT. PROVIDE 1-25A,2P BREAKER IN PANEL PP-4 TO REPLACE EXISTING. REFER TO NOTE 9.10.
HP-8	WATER SOURCE HEAT PUMP				208 V	1	1.80 kW	INT											REPLACES EXISTING UNIT. PROVIDE 1-25A,2P BREAKER IN PANEL PP-4 TO REPLACE EXISTING. REFER TO NOTE 9.10.
HP-10	WATER SOURCE HEAT PUMP				208 V	1	1.80 kW	INT											REPLACES EXISTING UNIT. PROVIDE 1-25A,2P BREAKER IN PANEL PP-4 TO REPLACE EXISTING. REFER TO NOTE 9.10.
HP-11	WATER SOURCE HEAT PUMP				208 V	3	4.20 kW	INT											REPLACES EXISTING UNIT. PROVIDE 1-45A,3P BREAKER IN PANEL PP-4 TO REPLACE EXISTING. REFER TO NOTE 9.10.
HP-12	WATER SOURCE HEAT PUMP				208 V	3	2.10 kW	INT											REPLACES EXISTING UNIT. PROVIDE 1-35A,3P BREAKER IN PANEL PP-4 TO REPLACE EXISTING. REFER TO NOTE 9.10.
HP-13	WATER SOURCE HEAT PUMP				208 V	3	2.10 kW	INT											REPLACES EXISTING UNIT. PROVIDE 1-35A,3P BREAKER IN PANEL PP-4 TO REPLACE EXISTING. REFER TO NOTE 9.10.
HP-14	WATER SOURCE HEAT PUMP				208 V	3	4.20 kW	INT											REPLACES EXISTING UNIT. PROVIDE 1-45A,3P BREAKER IN PANEL PP-4 TO REPLACE EXISTING. REFER TO NOTE 9.10.
HP-15	WATER SOURCE HEAT PUMP				208 V	3	2.70 kW	INT											REPLACES EXISTING UNIT. UTILIZE EXISTING 1-40A,3P BREAKER IN PANEL LP-S. REFER TO NOTE 9.10.
HP-16	WATER SOURCE HEAT PUMP				208 V	3	2.10 kW	INT											REPLACES EXISTING UNIT. UTILIZE EXISTING 1-30A,3P BREAKER IN PANEL LP-S. REFER TO NOTE 9.10.
HP-18	WATER SOURCE HEAT PUMP				208 V	1	0.80 kW	INT											REPLACES EXISTING UNIT. UTILIZE EXISTING 1-15A,2P BREAKER IN PANEL B. REFER TO NOTE 9.10.
HP-22	WATER SOURCE HEAT PUMP				208 V	3	2.30 kW	INT											REPLACES EXISTING UNIT. PROVIDE 1-35A,3P BREAKER IN PANEL B. MARK EXISTING 1-15A,2P BREAKER AS 'SPARE'. REFER TO NOTE 9.10.

WIRING FOR MECHANICAL EQUIPMENT SCHEDULE NOTES:

- PROVIDE CONTROL VOLTAGE FROM A PROPER FUSED CONTROL CIRCUIT TRANSFORMER MOUNTED INTEGRALLY WITHIN THE CORRESPONDING DEVICE/STARTER.
- PROVIDE 'SPRING RETURN' TO OFF (O) FROM HAND (H) POSITION FOR SUPERVISED TEST PURPOSES ONLY.
- ON/OFF CONTROL SWITCH SHALL BE MOTOR RATED FOR LOAD.
- INTEGRATE WITHIN CONTROL DEVICE ENCLOSURE ALL STATUS CONTACTS FOR ALARM AND DEVICE STATE, ETC.
- RATE ALL MECHANICAL EQUIPMENT FEEDERS TO MATCH THE OVERCURRENT PROTECTION DEVICE SPECIFIED.
- PROVIDE LED PILOT LIGHTS IN FRONT FACE OF ALL CONTROL DEVICES AS FOLLOWS:
 - a. GREEN-RUNNING
 - b. RED-FAILED/FAULT
 - c. AMBER-MANUAL
- ABSENCE OF ANY ILLUMINATED LIGHT INDICATES MOTOR IS OFF AND/OR AVAILABLE FOR USE.
- PROVIDE ALL FANS AND MOTORS WITH LOCAL ISOLATION SWITCH (EVEN IF NOT SHOWN ON DRAWINGS).
- LOOSE STARTERS SHALL BE SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
- CONDENSATE PUMPS TO BE PROVIDED FOR HEAT PUMPS NOTED BY MECHANICAL TRADE. PROVIDE 15A,1P BREAKERS IN PANELS PP-4, LP-S, AND PANEL B AS REQUIRED TO FEED CONDENSATE PUMPS ASSOCIATED WITH HEAT PUMPS HP-3, HP-4, HP-5, HP-7, HP-8, HP-10, HP-11, HP-12, HP-13, HP-14, HP-15, AND HP-16 COMPLETE WITH CONDUIT AND WIRING FOR A COMPLETE INSTALLATION.
- WHERE RATINGS ARE SUITABLE, EXISTING CIRCUIT BREAKERS, CONDUIT AND WIRING MAY BE REUSED (OR REWORKED AS REQUIRED) TO SUIT NEW HEAT PUMP INSTALLATIONS. CONDUIT AND WIRING MAY BE EXTENDED OR REWORKED TO SUIT NEW HEAT PUMP LOCATIONS WHERE SUITABLE FOR REUSE, OTHERWISE PROVIDE NEW CONDUIT AND WIRING TO HEAT PUMP LOCATION.

STARTER TYPES:	LOCAL CONTROL TYPES:	MECHANICAL REMOTE CONTROL TYPES:
MAN - MANUAL	HLS - HIGH LOW SELECTOR	TST - THERMOSTAT
MAG - MAGNETIC	HDA - HAND-OFF-AUTO	BAS - BUILDING AUTOMATION SYSTEM
CON - CONTACTOR	OOS - ON-OFF SELECTOR	CP - CONTROL PANEL
VFD - VARIABLE FREQUENCY DRIVE	SSP - START-STOP PUSHBUTTONS	FST - FIRESTAT
CMB - COMBINATION	HMI - HUMAN MACHINE INTERFACE	AGT - AQUASTAT
SFT - SOFT STARTER		
SSS - SOLID STATE STARTER		
ZSP - TWO SPEED STARTER	ELECTRICAL REMOTE CONTROL TYPES:	COMMUNICATION/MONITOR TYPES:
RVS - REDUCED VOLTAGE STARTER	TST - THERMOSTAT	BAS - BUILDING AUTOMATION SYSTEM
REV - REVERSING STARTER	OOS - ON-OFF SELECTOR	IP - ETHERNET
INT - INTEGRAL	SSP - START-STOP PUSHBUTTON	MOD - MODBUS
LOS - LOOSE	TCK - TIME CLOCK	
	REL - CONTROL RELAY	

STARTER LOCATION TYPES:

INT - INTEGRAL
REM - REMOTE
MCC - MOTOR CONTROL CENTRE

LIGHTING FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	SERIES	NOMINAL SIZE	PHYSICAL CHARACTERISTICS					ELECTRICAL CHARACTERISTICS					ACCESSORIES	NOTES	REV
					HOUSING FINISH	MOUNTING		OPTIC	VOLTS	LOAD	LUMENS	CCT	CRI	DRIVER			
L. LINEAR																	
L10	2' LED STRIP LIGHT	LITHONIA	ZL1D	24" x 3" x 3"	STL	WHT	PWD	SURFACE	ABOVE DOOR		120 V	20 VA	1500lm		80 CRI	INTEGRAL OCCUPANCY SENSOR	
T. TROFFER																	
T10	2x4 LED FLAT PANEL	LITHONIA	EPANL	48" x 24" x 3"	STL	WHT	PWD	RECESSED	CEILING		120 V	40 VA	4000lm		80 CRI		0-10V DIMMING.

LIGHTING FIXTURE SCHEDULE NOTES:

- PRODUCTS OTHER THAN THOSE LISTED WILL BE CONSIDERED. OTHER PRODUCTS MUST BE CAPABLE OF PROVIDING THE SAME LEVEL OF PERFORMANCE, INCLUDING CONTROL CAPACITY, AS THE BASIS OF DESIGN PRODUCTS NAMED. SUBMIT PRODUCT DATA IN ACCORDANCE WITH THE 'LIGHTING' SECTION OF THE ELECTRICAL SPECIFICATIONS.
- ALL INTERIOR LIGHTING FIXTURES SHALL HAVE A MINIMUM CRI OF 80; EXTERIOR FIXTURES SHALL HAVE A MINIMUM CRI OF 70. WHENEVER A CRI OF 80+ OR HIGHER IS CALLED FOR IN THE SCHEDULE, A R9 VALUE OF >50 SHALL ALSO BE PROVIDED.
- ALL LED DRIVERS SHALL BE FREE OF NOTICABLE FLICKER AS DETERMINED BY THE OWNER AND/OR CONSULTANT. DIMMING DRIVERS SHALL PROVIDE SMOOTH AND CONTINUOUS DIMMING. ANY LED DRIVER THAT PRODUCES NOTICABLE FLICKER SHALL BE REPLACED BY THE LUMINAIRE MANUFACTURER FREE OF CHARGE.
- UNLESS NOTED OTHERWISE, ALL FIXTURES SHALL HAVE INTEGRAL 0-10V DIMMABLE DRIVERS WITH A DIMMING RANGE OF 100% TO 10% MINIMUM.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE PRODUCTS SUPPLIED AND INSTALLED ARE COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM AND/OR DEVICES. THE CONTRACTOR SHALL PROVIDE THE CONTROLS SYSTEM MANUFACTURER OF THEIR CHOICE WITH A COPY OF ALL DRAWINGS AND SCHEDULES.

HOUSING RATING TYPES:	HOUSING FINISH TYPES:	OPTIC TYPES:	DRIVER TYPES:	ACCESSORIES TYPES:
DRY - DRY LOCATION	ANO - ANODIZED	DIF - DIFFUSE OPTIC	NON - NON-DIMMING	AT - AUTO-TEST
DAMP - DAMP LOCATION	BRU - BRUSHED	BAT - BAITING	BI - BI-LEVEL OUTPUT	EM - UL924 EMERGENCY TRANSFER
WET - WET LOCATION	PNT - PAINTED	SPXX - SPOT OPTIC XX DEGREES	DIM1 - 0-10V 1% DIMMING OUTPUT	
OUT - IP65 MIN / COLD RATED	PWD - POWDER COATED	TXPX - OUTDOOR TYPE X OPTIC	DIM10 - 0-10V 10% DIMMING OUTPUT	
IPXX - IP XX RATING	TEX - TEXTURED	WW - WALL WASH	DALI - DALI	
NEXX - NEMA XX RATING		ELI - ELLIPTICAL	BLOS - BLOS	
ZNXX - ZONE XX RATING	HOUSING MATERIAL TYPES:	STPX - STEP LENS X*	DMX - DIGITAL MULTIPLEX	
VAN - VANDAL RESISTANT	STL - STEEL		WIR - WIRELESS	
	ALU - ALUMINIUM		REM - REMOTE	

Branch Panel: PP4 **EXISTING**

Location:	Volts: 120/208 Wye	A.I.C. Rating:
Supply From:	Phases: 3	Mains Type: MLO
Mounting: SURFACE	Wires: 4	Mains Rating: 600 A
Enclosure: NEMA 2		Bus Material: COPPER
Manufacturer: FEDERAL PIONEER		
Model: NBDP		

Notes:
Provided for reference only. Replace existing breakers with new to suit new heat pumps as noted in wiring for mechanical equipment schedule.

CCT	Circuit Description	Trip	Poles	A (kW)	B (kW)	C (kW)	Poles	Trip	Circuit Description	CCT
1	HEAT PUMP #3	40 A	3	0	0		2	30 A	EXISTING LOAD	2
3	--	--	--		0	0		--	--	4
5	--	--	--			0	0	1	15 A	EXISTING LOAD
7	HEAT PUMP #4	30 A	2	0	0		3	40 A	HEAT PUMP #2	8
9	--	--	--		0	0		--	--	10
11	HEAT PUMP #6	20 A	2			0	0	--	--	12
13	--	--	--	0	0		3	40 A	HEAT PUMP #5	14
15	EXISTING LOAD	30 A	3		0	0		--	--	16
17	--	--	--			0	0	--	--	18
19	--	--	0	0			3	50 A	EXISTING LOAD	20
21	EXISTING LOAD	15 A	1		0	0		--	--	22
23	EXISTING LOAD	15 A	1			0	0	--	--	24
25	EXISTING LOAD	15 A	1	0	0		1	15 A	EXISTING LOAD	26
27	EXISTING LOAD	15 A	1		0	0	1	15 A	EXISTING LOAD	28
29	EXISTING LOAD	15 A	1			0	0	1	15 A	EXISTING LOAD
31	EXISTING LOAD	15 A	1	0	0		2	15 A	HEAT PUMP #9	32
33	HEAT PUMP #7	30 A	2		0	0		--	--	34
35	--	--	--			0	0	2	30 A	HEAT PUMP #10
37	HEAT PUMP #8	30 A	2	0	0			--	--	38
39	--	--	--		0	0	3	40 A	HEAT PUMP #13	40
41	HEAT PUMP #11	40 A	3			0	0	--	--	42
43	--	--	--	0	0			--	--	44
45	--	--	--		0	0	3	40 A	HEAT PUMP #14	46
47	HEAT PUMP #12	30 A	3			0	0	--	--	48
49	--	--	0	0				--	--	50
51	--	--	--		0	0	1	15 A	EXISTING LOAD	52
53	EXISTING LOAD	15 A	1			0	0	1	15 A	EXISTING LOAD
55	SPACE	--	1	--	0		3	15 A	HEAT PUMP #1	56
57	SPACE	--	1		--	0		--	--	58
59	SPACE	--	1			--	0	--	--	60
61	SPACE	--	1	--	0		3	100 A	EXISTING LOAD	62
63	SPACE	--	1		--	0		--	--	64
65	SPACE	--	1			--	0	--	--	66
Total Load:		0 kW		0 kW		0 kW				
Total Amps:		0 A		0 A		0 A				

Prefix Legend:
ALL BREAKERS SHALL BE NEW UNLESS OTHERWISE NOTED
+ - BREAKER MADE AVAILABLE BY DEMOLITION
* - EXISTING BREAKER
M - METER
ST - SHUNT TRIP
GFCI - GROUND FAULT CIRCUIT INTERRUPT
AFCI - ARC FAULT CIRCUIT INTERRUPT
LSI - LONG-TIME + SHORT-TIME + INSTANTANEOUS
LSIG - LONG-TIME + SHORT-TIME + INSTANTANEOUS + GND FAULT

Branch Panel: LPS **EXISTING**

Location:	Volts: None	A.I.C. Rating:
Supply From:	Phases: Not Computed	Mains Type: MLO
Mounting: RECESSED	Wires: Not Computed	Mains Rating: 100 A
Enclosure: NEMA 2		Bus Material: COPPER
Manufacturer: FEDERAL PIONEER		
Model:		

Notes:
Provided for reference only. Replace existing breakers with new to suit new heat pumps as noted in wiring for mechanical equipment schedule.

CCT	Circuit Description	Trip	Poles	A (kW)	B (kW)	C (kW)	Poles	Trip	Circuit Description	CCT
1	EXISTING LOAD	15 A	1	0	0		1	15 A	EXISTING LOAD	2
3	EXISTING LOAD	15 A	1		0	0	1	15 A	EXISTING LOAD	4
5	EXISTING LOAD	15 A	1			0	0	1	15 A	EXISTING LOAD
7	EXISTING LOAD	15 A	1	0	0		1	15 A	EXISTING LOAD	8
9	EXISTING LOAD	15 A	1		0	0	1	15 A	EXISTING LOAD	10
11	EXISTING LOAD	15 A	1			0	0	1	15 A	EXISTING LOAD
13	EXISTING LOAD	15 A	1	0	0		1	15 A	EXISTING LOAD	14
15	EXISTING LOAD	15 A	1		0	0	1	15 A	EXISTING LOAD	16
17	EXISTING LOAD	15 A	1			0	0	1	15 A	EIXTING LOAD
19	EXISTING LOAD	15 A	1	0	0		1	15 A	EXISTING LOAD	20
21	EXISTING LOAD	15 A	1		0	0	1	15 A	EXISTING LOAD	22
23	EXISTING LOAD	15 A	1			0	0	1	15 A	EXISTING LOAD
25	HEAT PUMP #15	40 A	3	0	0		1	15 A	EXISTING LOAD	26
27	--	--	--		0	0	1	15 A	EXISTING LOAD	28
29	--	--	--			0	0	1	15 A	EXISTING LOAD
31	HEAT PUMP #16	30 A	3	0	--		1	--	SPACE	32
33	--	--	--		0	--	1	--	SPACE	34
35	--	--	--			0	--	1	SPACE	36
37	EXISTING LOAD	15 A	1	0	--		1	--	SPACE	38
39	SPACE	--	1		--	--	1	--	SPACE	40
41	SPACE	--	1			--	--	1	SPACE	42
Total Load:		0 kW		0 kW		0 kW</				