

# PRIVATE BLAKE WILLIAMSON MEMORIAL HALL

## CHANGE OF USE

### GENERAL SPECIFICATION:

HEREAFTER, "THE MUNICIPALITY OF NORTH GRENVILLE," "NORTH GRENVILLE," "NG," "NG REPRESENTATIVE," AND "OWNER" SHALL BE SYNONYMOUS AND HAVE THE SAME EFFECT AS IF PRINTED IN FULL.

HEREAFTER, "DDOG ENGINEERING SERVICES," "DDOG," "ENGINEER," AND "DESIGNER" SHALL BE SYNONYMOUS AND HAVE THE SAME EFFECT AS IF PRINTED IN FULL.

HEREAFTER, "GRAFF ARCHITECTURE," "GORDON GRAFF," AND "ARCHITECT" SHALL BE SYNONYMOUS AND HAVE THE SAME EFFECT AS IF PRINTED IN FULL.

EACH CONTRACTOR IS TO BE AN EXPERT IN HIS TRADE.

THE CONTRACTOR SHALL INSPECT THE PROJECT PRIOR TO TENDER TO REALIZE THE SCOPE OF WORK INVOLVED AND TO FAMILIARIZE HIMSELF WITH THE SITE CONDITIONS. THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL FIELD DATA INCLUDING MEASUREMENT, DRAWINGS, ORIENTATION, LOCATION AND SPECIFICATION. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY IN THIS REGARD. NOTIFY AND RECEIVE APPROVAL FROM THE UCLG REPRESENTATIVE, AND ENGINEER OF ANY DISCREPANCY BEFORE COMMENCING WORK.

THE CONTRACTOR IS EXPECTED TO SEEK BEFORE SUBMITTING BID, CLARIFICATIONS OF ANY ASPECT OF THE DRAWINGS THAT MAY OTHERWISE LEAD TO EXTRA COSTS. ANY CHALLENGE TO THE DRAWINGS BY THE CONTRACTOR POST-BID WILL BE REJECTED. THE ENGINEER WILL HAVE FINAL DETERMINATION.

ALL INQUIRIES AND/OR REQUESTS ARE TO BE SENT DIRECTLY TO THE OWNER.

OBEY ONLY WRITTEN INSTRUCTIONS BY OWNER OR ENGINEER.

REFER TO ARCHITECTURAL SPECIFICATIONS, GENERAL CONDITIONS, TENDER FORMS, SCHEDULE OF COMPLETION, DRAWINGS AND SPECIFICATIONS OF OTHER TRADES, ETC.

NO EXTRA WORK WILL BE AWARDED WITHOUT FIRST SUBMITTING A DETAILED BREAKDOWN OF PROPOSED WORK COMPLETE WITH FIRM QUOTE DOLLAR. NO EXTRA WORK IS TO BE CARRIED OUT WITHOUT RECEIVING SIGNED APPROVAL FROM THE OWNER.

NO SUBSTITUTIONS ARE TO BE MADE FOR ANY MECHANICAL/ELECTRICAL/PLUMBING/FIRE SAFETY MATERIALS OR EQUIPMENT DESCRIBED IN THE CONSTRUCTION DOCUMENTS WITHOUT FIRST PROVIDING SHOP DRAWINGS FOR REVIEW, AND A FIRM QUOTE DETAILED THE CHANGE IN MATERIAL AND INSTALLATION COST INCLUDING ORIGINAL BID PRICE. NO SUBSTITUTIONS ARE TO BE INSTALLED WITHOUT SIGNED APPROVAL FROM THE OWNER AND ENGINEER.

ARCHITECTURAL FINISH/MATERIAL/PRODUCT/COLOR APPROVALS MAY ONLY BE PROVIDED BY THE OWNER.

CONFER WITH ALL TRADES INSTALLING EQUIPMENT, AND ARRANGE THE WORK IN PROPER RELATION TO EQUIPMENT INSTALLED UNDER ALL DIVISIONS OF THE CONTRACT. THE TRADES ARE TO COORDINATE ON THE LOCATION OF EQUIPMENT AND FIXTURES BEFORE INSTALLATION. NO EXTRA WILL BE ALLOWED FOR LACK OF TRADES COORDINATION.

CONTRACTOR SHALL FURNISH ALL LABOUR, TOOLS, MATERIALS, OPERATIONS AND METHODS LISTED (EXCEPT AS NOTED OTHERWISE IN THIS DOCUMENT) TO ACCOMPLISH THE WORK AS OUTLINED IN THIS DOCUMENT.

THE CONTRACTOR IS RESPONSIBLE FOR SECURING ALL REQUIRED PERMITS TO COMPLETE THE SCOPE OF WORK OUTLINED IN THE CONSTRUCTION DRAWINGS.

ALL EXCAVATING AND BACKFILLING IS THE RESPONSIBILITY OF THE TRADE TO WHICH THE WORK IS RELATED. THE EXCAVATING AND BACKFILLING OPERATIONS ARE TO BE CARRIED OUT BY TRADES PEOPLE QUALIFIED FOR THIS TYPE OF WORK.

THE INSTALLATIONS GOVERNED BY THIS DOCUMENT SHALL BE COMPLETE IN EVERY RESPECT.

IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS THAT THE CONTRACTOR PROVIDE COMPLETE AND OPERATIONAL SYSTEMS AS REQUIRED. ANY MISCELLANEOUS ITEMS, HARDWARE, DEVICES, WIRING, ETC. NOT SPECIFICALLY DESCRIBED, BUT REQUIRED FOR THE OPERATION OF THE SYSTEM, MUST BE PROVIDED AND INCLUDED AS PART OF THE BID.

USE ONLY NEW MATERIAL AND EQUIPMENT.

ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT ONTARIO BUILDING CODE, MUNICIPAL BY-LAWS, AND WITH THE APPROVAL OF THE AUTHORITIES HAVING JURISDICTION.

INSTALLATION OF ALL EQUIPMENT, DUCTWORK, PLUMBING, ETC. IS TO BE FINISHED/CONCEALED IN A SUITABLE MANNER TO PROTECT FROM DAMAGE AND/OR VANDALISM, AND IN ORDER TO BE AESTHETICALLY PLEASING.

ALL CONCEALED EQUIPMENT, VALVES, ETC. TO BE PROVIDED WITH ACCESS HATCHES FOR USE, INSPECTION, AND MAINTENANCE OF EQUIPMENT.

### WOOD FRAME SPECIFICATION:

ALL FRAMING TO COMPLY WITH THE ONTARIO BUILDING CODE PART 9.23.

ALL EXISTING CUT/DRIILLED/NOTCHED JOISTS TO BE REINSTATED BY SECURING NEW EQUALLY-SIZED PLANKS TO THE SIDES OF THE JOIST EXTENDING MIN. 48" BEYOND CUT/DRIILLED/NOTCH OR TO THE NEAREST POINT OF BEARING.

NEW PLANKS TO REINSTATE DAMAGED JOISTS SHALL BE SECURED TO EXISTING JOISTS BY A DOUBLE ROW OF 3"x5" NAILS @ 16" o/c. WITH END NAILS LOCATED 4" FROM BOTH ENDS OF THE NEW PLANK.

ALL JOISTS TO BE PROVIDED WITH 1x3 STRAPPING @ 16" o/c.

DOUBLE TOP PLATES OR FIRE BLOCKS ARE TO BE PROVIDED AT ALL FLOORWALL JUNCTIONS.

### EXTERIOR SPECIFICATION:

EXTERIOR BRICKWORK IS TO BE COMPLETED IN ACCORDANCE WITH OBC 9.20.

CONTRACTOR TO PROVIDE BRICK AND MORTAR SAMPLES INCLUDING A 36" x 36" MOCK-UP LEFT TO CURE MINIMUM 48 HOURS FOR APPROVAL PRIOR TO ORDERING MATERIALS.

EXTERIOR FINISHES ARE TO BE INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS INCLUDING RELEVANT FLASHING DETAILS.

ALL PAVING AND GRADING TO SLOPE MIN. 2% AWAY FROM STRUCTURE.

COMPRESSIVE STRENGTH OF WALKWAY CONCRETE TO BE NOT LESS THAN 32 MPa AFTER 28 DAYS.

EXTERIOR CONCRETE WALKWAYS TO HAVE AIR ENTRAINMENT OF 5-8%.

CONTROL JOINTS IN CONCRETE WALKWAY TO BE 4" DEEP C/W ASPHALT EXPANSION JOINT MATERIAL.

ALL CONCRETE WORK TO COMPLY WITH PART 9.3 OF THE ONTARIO BUILDING CODE.

### FIRE ESCAPE

ALL FIRE ESCAPE COMPONENTS ARE TO CONFORM TO OBC 3.4.7, "FIRE ESCAPES"

ALL FINISHED FIRE ESCAPE COMPONENTS ARE TO BE PAINTED WITH MATTE BLACK RUST INHIBITING PAINT.

CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR PROPOSED FIRE ESCAPE INCLUDING ANCHORAGE TO EXISTING BUILDING AND ANY REQUIRED SUPPORT STRUCTURES SUCH AS PIERS OR OTHER FOUNDATIONS.

### ROOF SPECIFICATION:

THE ROOF IS TO REMAIN AS-IS UNLESS INSTRUCTED OTHERWISE BY THE OWNER.

CONTRACTOR TO PROVIDE AN ADDITIONAL COST TO PROVIDE THE FOLLOWING ROOF:

THE EXISTING ROOFING SYSTEM INCLUDING ENTRANCE CANOPY IS TO BE REMOVED UNTIL SUITABLE SUBSTRATE IS EXPOSED AND FREE OF REMNANT MATERIALS INCLUDING BUT NOT LIMITED TO ANY FLASHINGS, STRAPPING, FELTS, TAR PAPER, PROTRUDING NAILS AND SCREWS.

THE ROOF IS TO BE FINISHED WITH A SHEET STEEL ROOFING SYSTEM.

METAL ROOFING PANELS TO BE IDEAL ROOFING "HERITAGE SERIES" 16-INCHES IN WIDTH.

COLOUR TO BE MIDNIGHT BLACK OR EQUIVALENT.

ROOF SNOW GUARDS TO BE IDEAL ROOFING "IDEAL GUARD" SNOW GUARD. COLOUR TO MATCH ROOF PANELS.

ALL SOFFITS, FASCIA, EAVESTROUGH, AND DOWNSPOUTS TO BE NEW.

THE CONTRACTOR IS TO PROVIDE SHOP DRAWINGS OF ALL ROOFING MATERIALS, FLASHINGS, AND ACCESSORIES FOR APPROVAL. THE ENGINEER WILL HAVE FINAL DETERMINATION.

WORK UNDER THIS CONTRACT SHALL INCLUDE ALL THE NECESSARY LABOUR, MATERIAL, TRANSPORTATION AND SAFETY EQUIPMENT REQUIRED TO COMPLETE THE ABOVE IN ACCORDANCE WITH TERMS AND CONDITIONS CONTAINED HEREIN.

WORK COVERED BY THIS SECTION INCLUDES THE REMOVAL AND DISPOSAL OF ALL EXISTING ROOFING MATERIALS, FELTS, ICE & WATER SHIELDS, FLASHING, ETC. OFF-SITE, AND THE SUPPLY AND INSTALLATION OF ALL STEEL ROOF AND MEMBRANE MATERIALS AS SPECIFIED AND DETAILED.

ALL ROOF WORK IS TO BE COMPLETED DURING FAIR WEATHER, AND DURING TEMPERATURES OF 5°C OR WARMER. ALL SURFACES ARE TO BE COMPLETELY DRY THROUGHOUT WHEN INSTALLING NEW ROOF COMPONENTS.

DELIVER ALL MATERIALS IN ORIGINAL BUNDLES, PACKAGES AND CONTAINERS. TAKE PARTICULAR CARE THAT MATERIALS ARE CAREFULLY HANDLED TO PREVENT DAMAGE TO NEW AND EXISTING WORK.

PROVIDE ALL MANUFACTURER'S WARRANTIES AND FOLLOW THE REQUIREMENTS OF THOSE WARRANTIES TO ENSURE THAT THE WARRANTIES ARE NOT VOIDED.

THE CONTRACTOR IS TO PROVIDE A TWO-YEAR INSTALLATION AND WATER-TIGHTNESS WARRANTY WHICH COMMENCES ON THE DAY OF SUBSTANTIAL COMPLETION.

THE OWNER OR DESIGNATE, MUST INSPECT THE EXPOSED ROOF SHEATHING BEFORE COVERING OVER WITH NEW ROOFING MATERIALS.

ENSURE EXISTING ROOF SHEATHING IS IN GOOD CONDITION AND ADEQUATELY SECURED.

ANY DAMAGED ROOF SHEATHING IS TO BE IDENTIFIED TO THE OWNER AND A SEPARATE PRICE TO REPLACE WILL BE REQUIRED AND CONSIDERED AS AN EXTRA AND NOT PART OF THE SCOPE OF THIS TENDER.

REPLACE ALL FLASHING, INCLUDING STEP FLASHING, COUNTER FLASHING, CAP FLASHING, VALLEY FLASHING, RIDGE CAPS, ROOF VENTS, GOOSE NECK VENTS, ROUND STACK BOOTS, FLASHING AT FIRE SEPARATIONS.

INSTALL NEW DRIP EDGE ALONG EAVES AND GABLES ON ALL ROOF AREAS.

REPLACE ANY DETERIORATED OR DISCOLORED FASCIA BOARDS AS REQUIRED.

QUANTITIES PROVIDED ARE FOR CONTRACTOR INFORMATION ONLY. SUCCESSFUL CONTRACTOR IS TO CONFIRM ALL DIMENSIONS AND QUANTITIES.

SAFETY EQUIPMENT TO BE USED AT ALL TIMES.

UPON COMPLETION OF THE ROOF INSTALL, ALL CUTTINGS, DRILLINGS AND DEBRIS IS TO BE REMOVED FROM FINISHED ROOF. EAVES TROUGH ARE TO BE CLEARED OF ANY DEBRIS. ANY RESIDUAL CAULKING OR ADHESIVE TO BE REMOVED AND ROOF TO BE SWEEP OR WIRED CLEAN.

SWEEP ALL GROUND AREA AROUND THE BUILDING WITH MAGNET TO REMOVE NAILS AND CUTTINGS. CLEAR AWAY AND DISPOSE OF ALL DEBRIS.

### SOFFITS AND FASCIA

SOFFITS ARE TO BE VENTED ALUMINUM.

FASCIA TO BE CONTINUOUS ALUMINUM.

COLOUR OF SOFFITS AND FASCIA TO BE DETERMINED.

### SEAMLESS ALUMINUM EAVES TROUGH

SUPPLY AND INSTALL 5 INCH SEAMLESS EAVESTROUGH AND 3"x3" DOWNSPOUTS.

EAVESTROUGH TO HAVE MIN. 1/4-INCH SLOPE PER 10FT LENGTH.

HANGERS TO BE PLACED AT 12 INCH CENTERS. ALL OUTLETS AND ELBOWS TO BE SECURED WITH SCREWS.

COLOUR TO MATCH SOFFITS AND FASCIA.

### INSTALLATION OF STEEL ROOF

SUPPLY AND INSTALL HIGH-TEMPERATURE ICE AND WATER SHIELD OVER THE ENTIRE ROOF FOLLOWING MANUFACTURER'S INSTRUCTIONS, INCLUDING ANY ADDITIONAL PRIMING OR NAILING AS MAY BE REQUIRED.

SUPPLY AND INSTALL 1" x 4" LUMBER STRAPPING ON ALL OUTSIDE ROOF EDGES AND HORIZONTALLY ON 2" CENTERS, AND SCREWED TO ROOF TRUSSES USING WOOD SCREWS. ENSURE ALL STRAPPING IS LEVEL, AND SHIM AS REQUIRED TO ENSURE FINISHED ROOF HAS NO UNDULATIONS OR WARPING (OK, CANNING). PLACE DOUBLE STRAPPING AT 24" DIMENSION FROM ROOF EDGE TO ACCOMMODATE SNOW GUARDS.

ENSURE THAT THE ROOF IS SQUARE PRIOR TO INSTALLING NEW STEEL.

NEW STEEL TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS USING ALL RECOMMENDED TRIM, ROUND STACK BOOTS, FLASHINGS, GASKETS, SEALS, ADHESIVES AND FASTENERS.

ROOF PANELS ARE TO BE CONTINUOUS FROM RIDGE TO EAVE.

ROOF STEEL TO BE LAID AGAINST PREVAILING WIND.

INSTALL TO INCLUDE THE INSTALLATION OF LOW PROFILE RIDGE VENT, 4" DRIP EDGE, FLASHING AND TRIM.

ENSURE THAT ROOF SHEATHING IS CUT BACK TO ALLOW ADEQUATE AIRFLOW THROUGH RIDGE VENT.

INSTALL SNOW GUARDS ON THE FINISHED ROOF SLOPES FOR ENTIRE BUILDING. ROOF GUARDS TO BE 3" HEIGHT 29 GAUGE, COLOR MATCHED TO ROOF STEEL. PROVIDE LUMBER STRAPPING UNDER NEW STEEL TO ACCEPT GUARD MOUNTS.

### STEEL ROOF CLADDING:

EXTERIOR ROOF CLADDING: FACTORY PREFORMED, "PERSPECTRA PLUS" PAINTED GALVANIZED STEEL, 29 GAUGE THICKNESS C/W 40-YEAR MANUFACTURER'S WARRANTY.

FASTENERS ARE TO BE #10x2" CORROSION-RESISTANT HEX WASHER HEAD SCREWS C/W NEOPRENE SEALING WASHER AND FRE-PAINTED TO MATCH PANELS.

PROVIDE COMPONENTS APPROVED BY ROOF PANEL MANUFACTURER AND AS REQUIRED FOR A COMPLETE METAL ROOF PANEL ASSEMBLY INCLUDING TRIM, COPINGS, FASCIAE, CORNER UNITS, HEAD CLOSURES, CLEATS, FLASHINGS, SEALANTS, GASKETS, FILLERS, CLOSURE STRIPS, AND SIMILAR ITEMS.

ROOF TRIMS AND ACCESSORIES TO BE THE SAME MATERIAL AND COLOR AS THE STEEL CLADDING.

ICE AND WATER SHIELD HIGH TEMP. PEEL AND STICK, MIN 0.4 mil. ACCEPTABLE PRODUCTS. GRACE ICE AND WATER SHIELD HT OR APPROVED EQUAL.

STACK/VENT BOOT TO BE ROUND, PER MANUFACTURER'S RECOMMENDATION. COLOUR TO BE BLACK.

SUPPLY AND INSTALL CLOSURE STRIPS PROVIDED BY ROOFING MANUFACTURER AND INSTALLED AT HEAD, SILL, AND WHEREVER NECESSARY TO ENSURE A WEATHER-TIGHT INSTALLATION.

### INTERIOR SPECIFICATION:

#### WALLS

ALL GYPSUM WALLS ARE TO BE TAPED, MUDDED, AND SANDED.

METAL CORNER BEADS ARE TO BE INSTALLED AT ALL EXTERIOR ANGLES.

ALL WALLS ARE TO BE THOROUGHLY CLEANED, DUST-FREE, AND DRY BEFORE APPLYING PAINT OR PRIMER.

PROTECT ALL BUILDING EQUIPMENT AND ADJACENT FINISHES FROM PAINT. ANY UNINTENTIONALLY PAINTED ITEMS ARE TO BE CLEANED TO OWNER'S SATISFACTION, OR REPLACED AT CONTRACTOR'S EXPENSE.

FOLLOW MANUFACTURER'S INSTRUCTIONS FOR PREPARATION, APPLICATION, CURING, TEMPERATURE AND HUMIDITY LIMITS, AND ANY OTHER ASPECT THAT MAY AFFECT THE QUALITY OF THE END-PRODUCT.

ALL WALLS TO BE PRIMED BEFORE PAINTING WITH ONE (1) COAT BENJAMIN MOORE FRESH START HIGH-HIDING ALL PURPOSE PRIMER.

WALLS TO BE FINISHED WITH TWO (2) COATS OF BENJAMIN MOORE EGG-SHELL SCUFF-X UNLESS NOTED OTHERWISE.

COLOUR TO BE DETERMINED BY OWNER.

CEILING TO BE FINISHED WITH TWO (2) COATS OF BENJAMIN MOORE WATERBORNE CEILING PANT ULTRA FLAT.

#### FLOORS

EXISTING CONCRETE FLOORS IN THE ELECTRICAL ROOM, VESTIBULE, AND ASSEMBLY ROOM ARE TO BE LEVELED, POLISHED, AND SEALED UNLESS OTHERWISE INSTRUCTED BY THE OWNER.

UTILITY ROOM FLOORING IS TO BE AMERICAN BILTRITE MIRRA LVT "SMOKED ASH GREY" MSA-001 3mm THICKNESS WITH A 0.7mm WEAR LAYER, 7" x 48"

CONTRACTOR TO PROVIDE ADDITIONAL COST TO PROVIDE THE FOLLOWING FLOORING IN THE VESTIBULE AND ASSEMBLY ROOM. MONDO RAMFLEX 6mm PREFABRICATED INDOOR SPORT FLOORING. COLOUR TO BE DETERMINED BY OWNER. MATERIAL IS TO BE TRANSPORTED, STORED, AND INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS. CONTRACTOR COST TO INCLUDE ANY AND ALL SURFACE PREPARATION AND UNDERLAYMENT THAT MAY BE NECESSARY FOR A PROPER INSTALLATION INCLUDING THE REMEDIATION OF ANY IRREGULARITIES IN THE EXISTING CONCRETE FLOORING.

ALL PRODUCTS TO BE INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS.

APPROPRIATE TRANSITION STRIPS ARE TO BE PROVIDED AT ALL CHANGES IN FLOORING MATERIAL.

FLOOR DEMOLITION AND REINSTATEMENT IS REQUIRED WHERE NEW PLUMBING IS TO BE RUN FOR NEW BARRIER-FREE WASHROOM. FLOORS ARE TO BE SAW-CUT, AND RUBBLE REMOVED FROM SITE. BACK-FILL WITH CLEAN SAND AROUND ALL PIPING BEFORE POURING NEW CONCRETE OF EQUAL THICKNESS TO ORIGINAL.

NEW BARRIER-FREE FLOOR FINISH TO MATCH EXISTING WASHROOMS INCLUDING BASE WALL TRIM.

#### DOORS

UNLESS PAINTED BY THE MANUFACTURER, INTERIOR STEEL DOORS AND FRAMES ARE TO BE PRIMED WITH ONE (1) COAT BENJAMIN MOORE ADVANCE PRIMER AND TWO (2) COATS BENJAMIN MOORE ADVANCE MATTE INTERIOR PAINT.

COLOUR TO BE DETERMINED BY OWNER.

ALL LOCKABLE DOORS ARE TO BE COMPATIBLE WITH NG EXISTING KEY SYSTEM. COORDINATE WITH NG REPRESENTATIVE FOR DETAILS.

#### BATHROOM ACCESSORIES

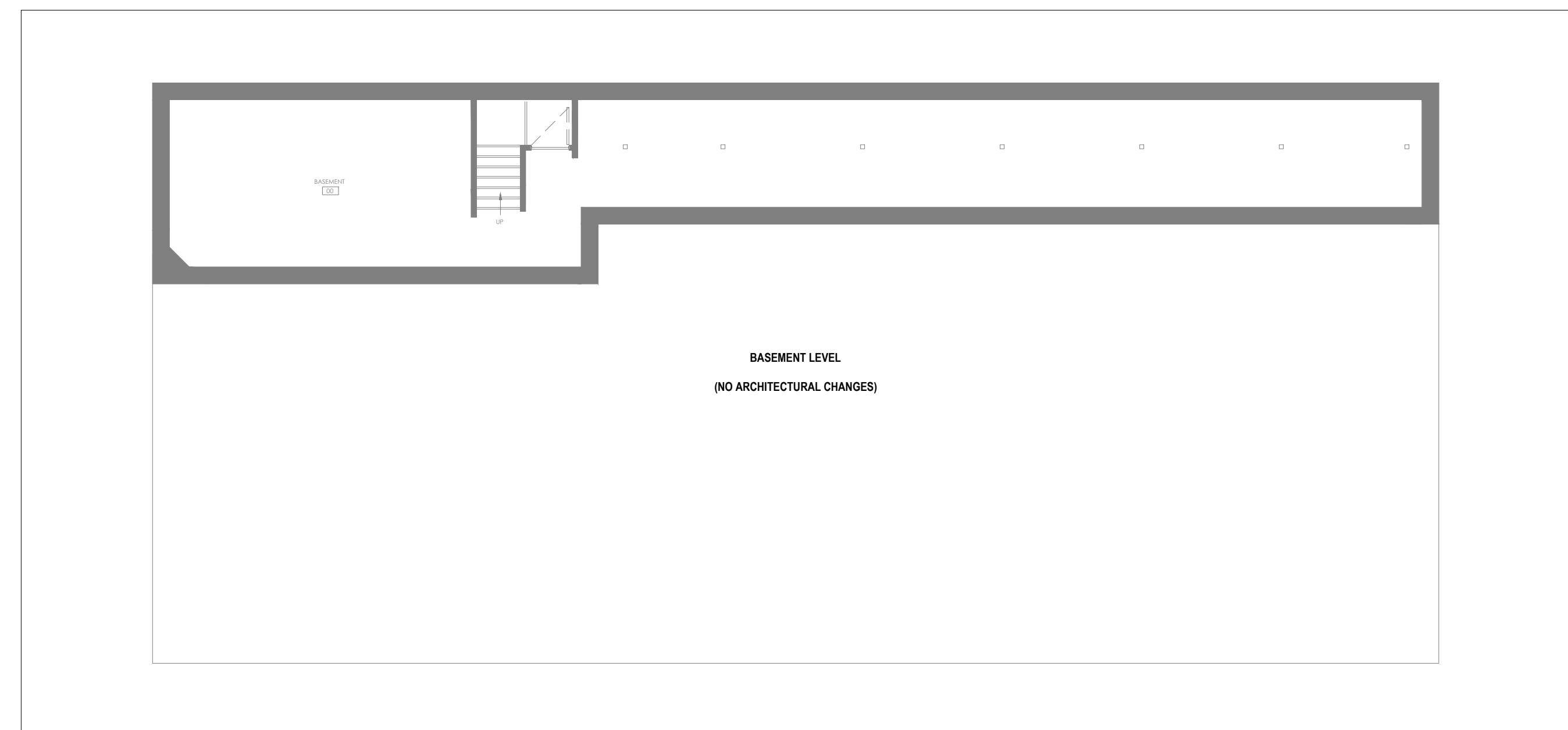
ALL BATHROOM ACCESSORIES, INCLUDING TOILET PAPER HOLDERS, VANITY CABINETS WITH MIRROR, TOWEL RACKS, ETC. TO BE INCLUDED. SEE SHEET P1.

ALL BATHROOM ACCESSORIES ARE TO BE PROVIDED WITH PLYWOOD BACKING.

#### ADDITIONAL DEMOLITION/REMOVAL

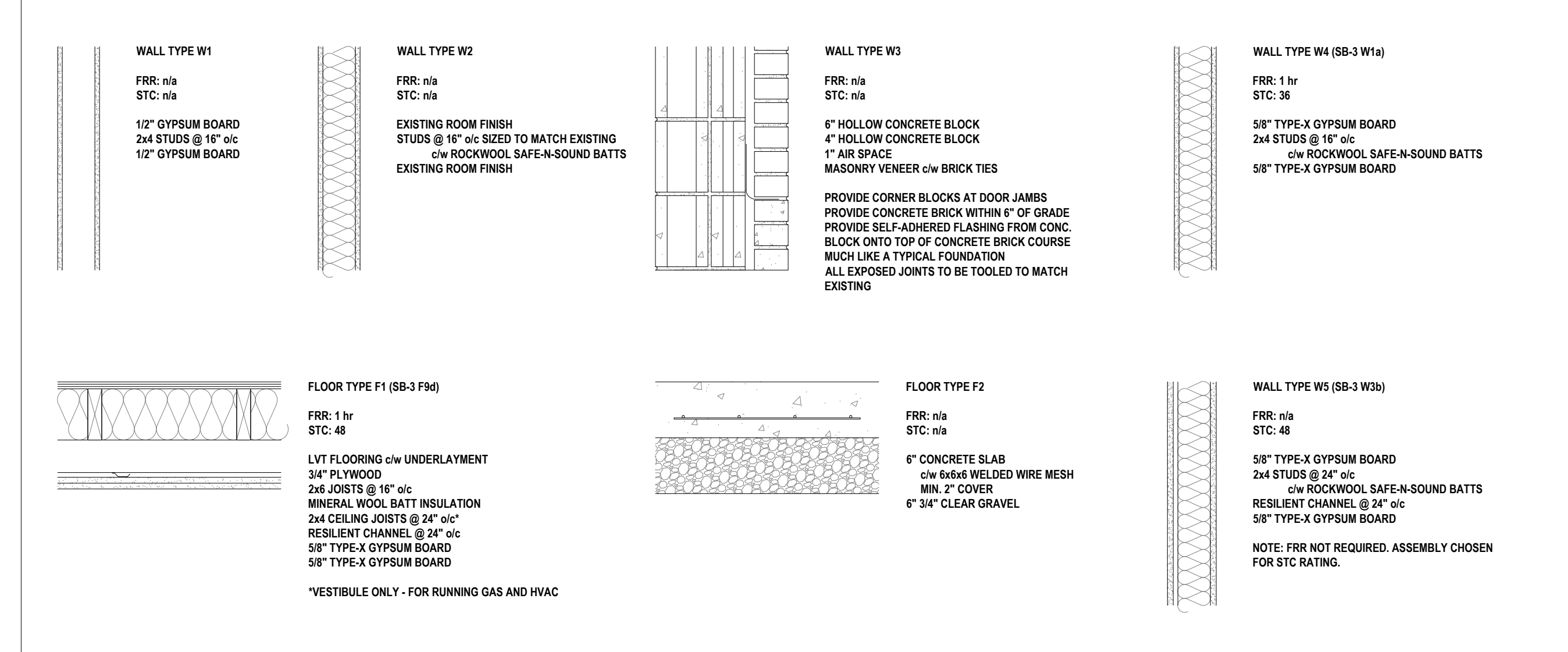
THE FOLLOWING ADDITIONAL ITEMS ARE TO BE REMOVED FROM SITE AND DISPOSED OF APPROPRIATELY BY THE CONTRACTOR. A. HVAC UNIT AND ASSOCIATED SHELF IN THE ASSEMBLY ROOM

ANY DAMAGE CAUSED OR OPENINGS CREATED BY THE DEMOLITION/REMOVAL OF THE ITEMS ABOVE IS TO BE REPAIRED OR MADE WHOLE AGAIN BY THE CONTRACTOR.



### 1 BASEMENT PLAN

A1 / SCALE: 1/8" = 1'-0"



### 2 ASSEMBLIES

A1 / SCALE: NTS

WINDOW SCHEDULE									
WINDOW NO.	ROOM NO.	NOM. HEIGHT	NOM. WIDTH	FRAME	GLAZING	SCREEN	HARDWARE	COMMENTS	
1	27	48	60	STEEL	DUAL PANE	n/a	n/a	BLACK FRAME, PICTURE WINDOW	

DOOR & FRAME SCHEDULE														
DOOR NO.	ROOM NO.	DOOR SIZE	DOORS				FRAMES							REMARKS/ HARDWARE
			TYPE	MATERIAL	FINISH	GLAZING	TYPE	MATERIAL	FINISH	SIDELIGHT GLAZING	THRESHOLD	BARRIER FREE CLEARANCES		
001	27	38 x 60	3	INSULATED STEEL	PAINTED BLACK	TEMPERED	n/a	1	STEEL	PAINTED BLACK	n/a	n/a	BARRIER-FREE	PULL HANDLE/PUSH PLATE, DEADBOLT, PANIC BAR, POWER DOOR OPERATOR, WEATHER STRIPPING
002	26	42 x 80	1	STEEL	PAINTED BLACK	n/a	n/a	1	STEEL	PAINTED BLACK	n/a	n/a	STANDARD	KNOB, DEADBOLT, CLOSER
003	11	36 x 80	5	STEEL	SEE REMARKS	TEMPERED	n/a	1	STEEL	SEE REMARKS	12\"/>			

SHEET LIST		
SHEET	REV	TITLE
A1	1	SPECIFICATION / SCHEDULES / BASEMENT PLAN
A2	1	GROUND FLOOR PLAN
A3	1	SECOND FLOOR PLAN
A4	1	NORTH / SOUTH ELEVATIONS
A5	1	EAST / WEST ELEVATIONS
M1	1	SPECIFICATIONS / BASEMENT MECHANICAL PLAN
M2	1	GROUND FLOOR MECHANICAL PLAN
M3	1	SECOND FLOOR MECHANICAL PLAN
E1	1	SPECIFICATIONS / BASEMENT ELECTRICAL PLAN
E2	1	GROUND FLOOR ELECTRICAL PLAN
E3	1	SECOND FLOOR ELECTRICAL PLAN
P1	1	SPECIFICATIONS / BASEMENT PLUMBING PLAN
P2	1	GROUND FLOOR PLUMBING PLAN



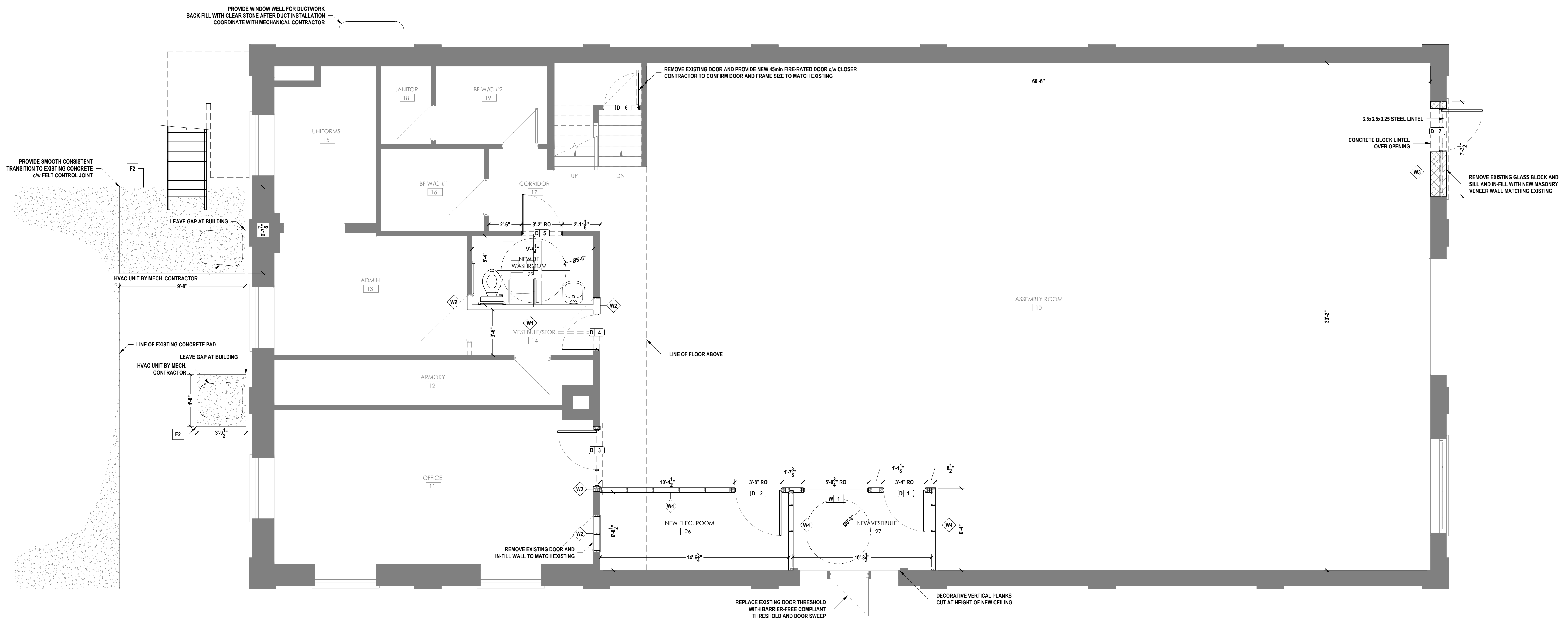
REV.	DATE	DESCRIPTION	INIT.	APP'D.	G. GRAFF
1	2024-11-14	ISSUED FOR PERMIT	AJ		
0	2024-10-11	ISSUED FOR TENDER	AJ		
C	2024-10-10	REVISED FOR ARCHITECT AND ENG. REVIEW	AJ		
B	2024-10-01	PRELIMINARY FOR ARCHITECT REVIEW	AJ		
A	2024-08-30	PRELIMINARY FOR ARCHITECT AND CLIENT REVIEW	AJ		

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1	2024-11-14				



1 GROUND FLOOR PLAN  
SCALE: 1/4" = 1'-0"



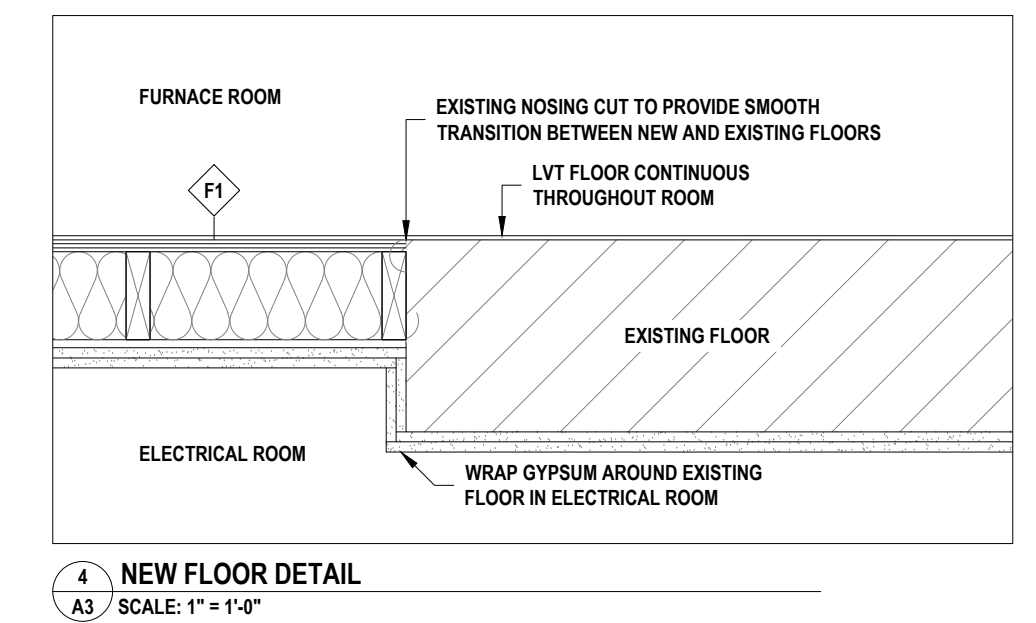
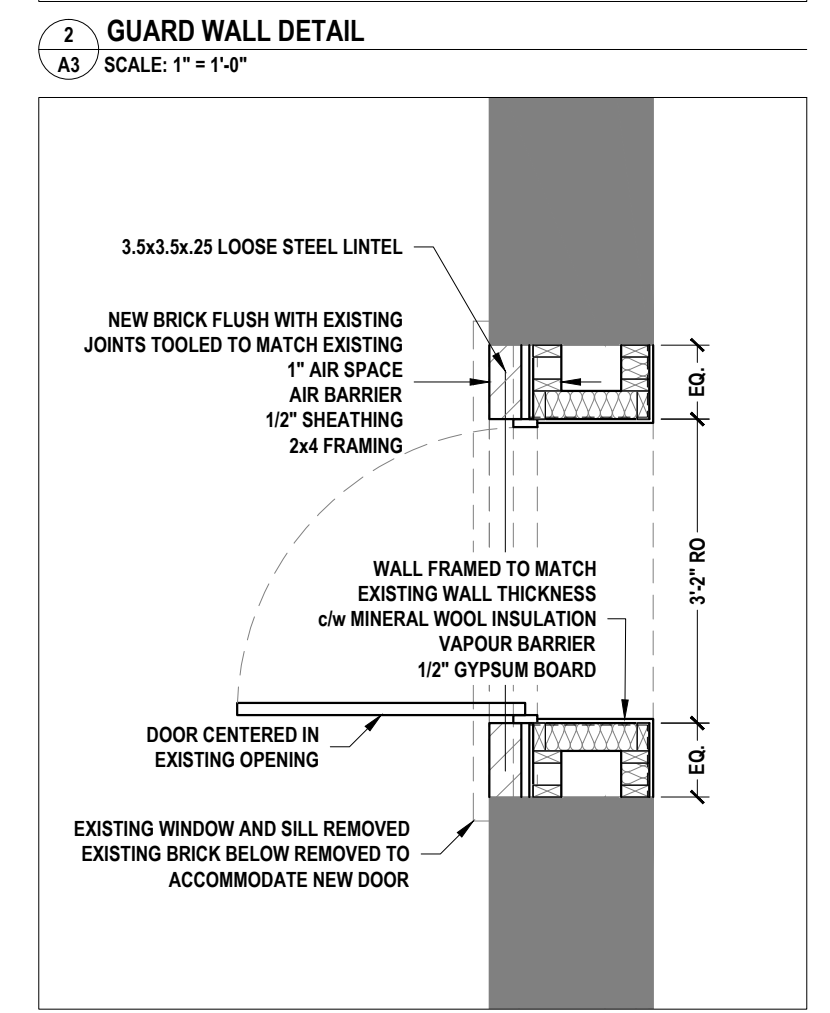
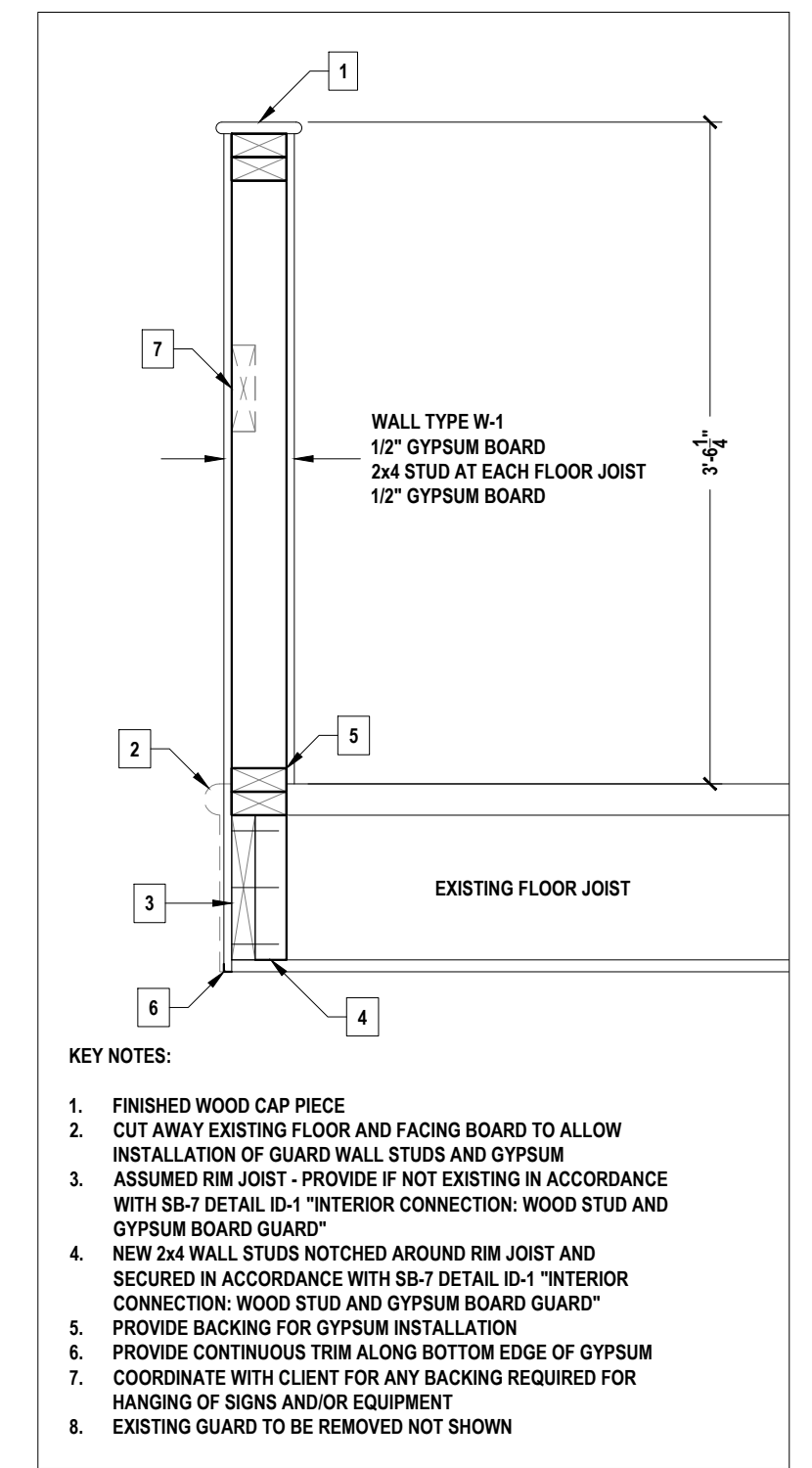
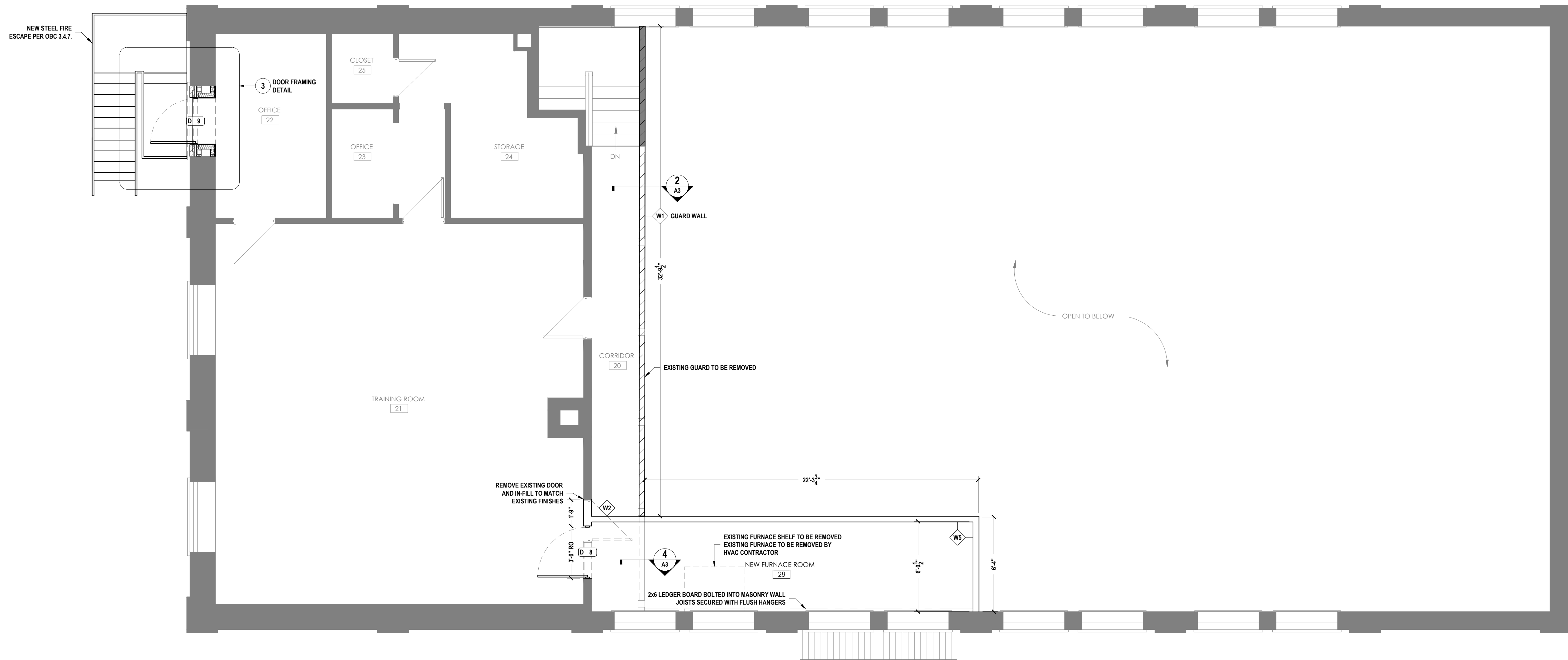
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	253 Hudson Point Road, Elizabethtown, Ont. K6V 7E3 Phone: (613) 498-2191 E-mail: dondegroot@dddg.ca Website: www.dddg.ca
	DYN: A. JENSEN CH'D: D. DE GROOT APP'D: G. GRAFF

CLIENT	MUNICIPALITY OF NORTH GRENVILLE KEMPTVILLE, ON
FILE NO.	241961 A.dwg
SCALE	AS NOTED
SHEET	2 OF 13
CONTINUED ON SHEET NO.	A5

TITLE	Pvt. BLAKE WILLIAMSON MEMORIAL HALL CHANGE OF USE GROUND FLOOR PLAN
DWG. NO.	A2
	1



1 SECOND FLOOR PLAN  
A3 SCALE: 1/4" = 1'-0"



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C	2024-10-10	REVISED FOR ARCHITECT AND ENG. REVIEW	AJ		
B	2024-10-01	PRELIMINARY FOR ARCHITECT REVIEW	AJ		
A	2024-08-30	PRELIMINARY FOR ARCHITECT AND CLIENT REVIEW	AJ		

**Engineering Services**  
253 Hudson Point Road, Elizabethtown, Ont. K6V 7E3  
Phone: (613) 498-2191  
E-mail: dondegroo@dddg.ca  
Website: www.dddg.ca

DATE	2024-07-30	FILE NO.	241961 A.dwg	PROJECT NO.	241961
DATE		SCALE	AS NOTED	SHEET	3 OF 13
DATE	2024-11-14	CONTINUED ON SHEET NO.	B4		

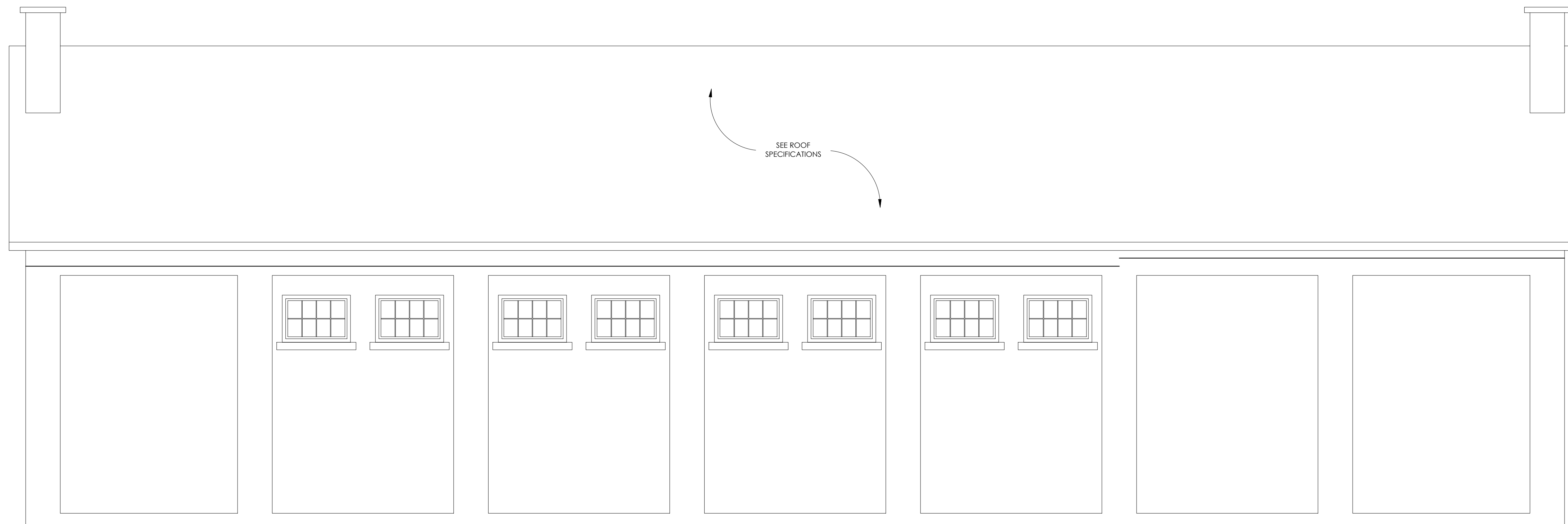
CLIENT: MUNICIPALITY OF NORTH GRENVILLE  
KEMPTVILLE, ON

TITLE: PVT. BLAKE WILLIAMSON MEMORIAL HALL  
CHANGE OF USE  
SECOND FLOOR PLAN

DWG. NO. A3



1 SOUTH ELEVATION  
A4 SCALE: 1/4" = 1'-0"



1 NORTH ELEVATION  
A4 SCALE: 1/4" = 1'-0"



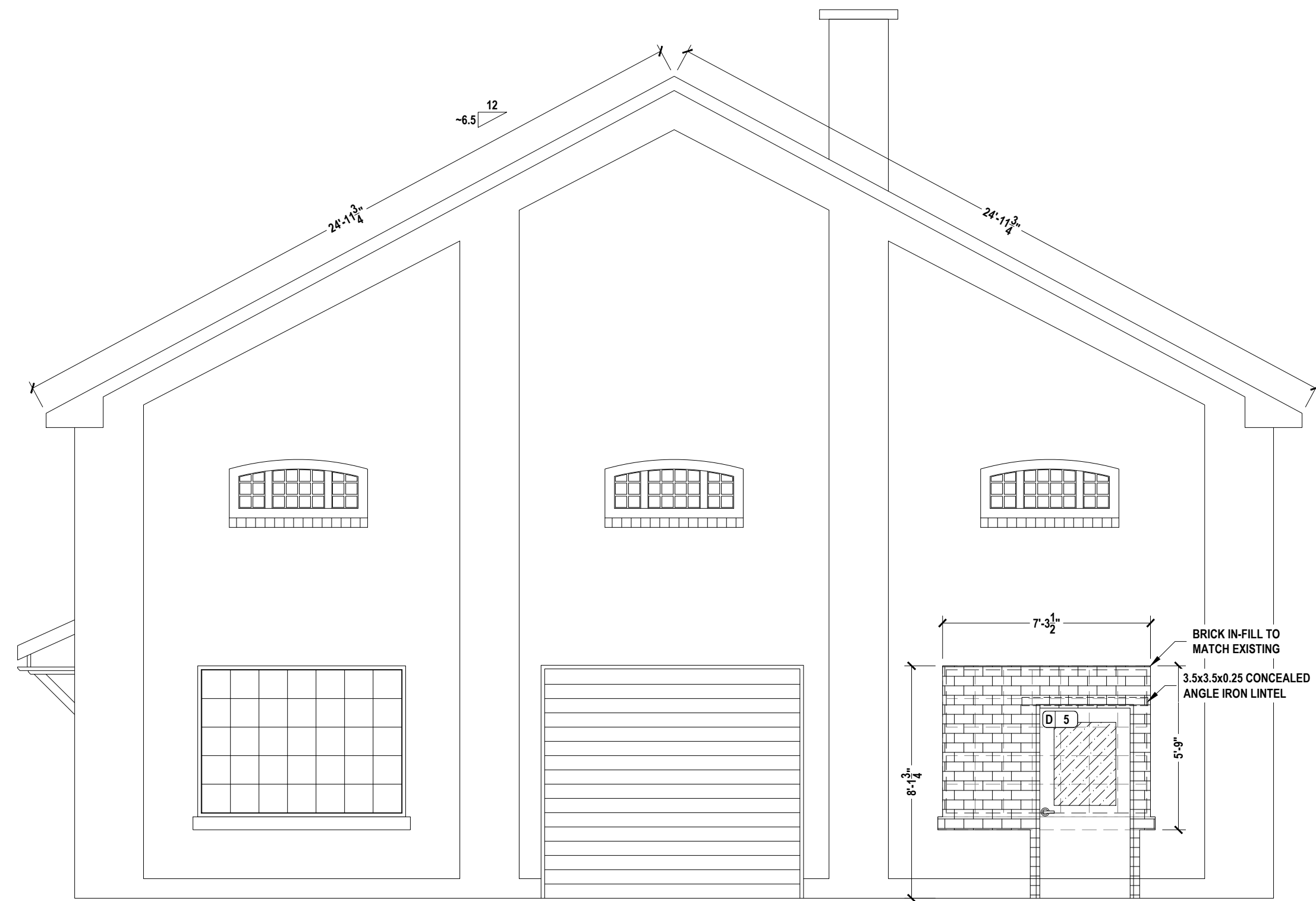
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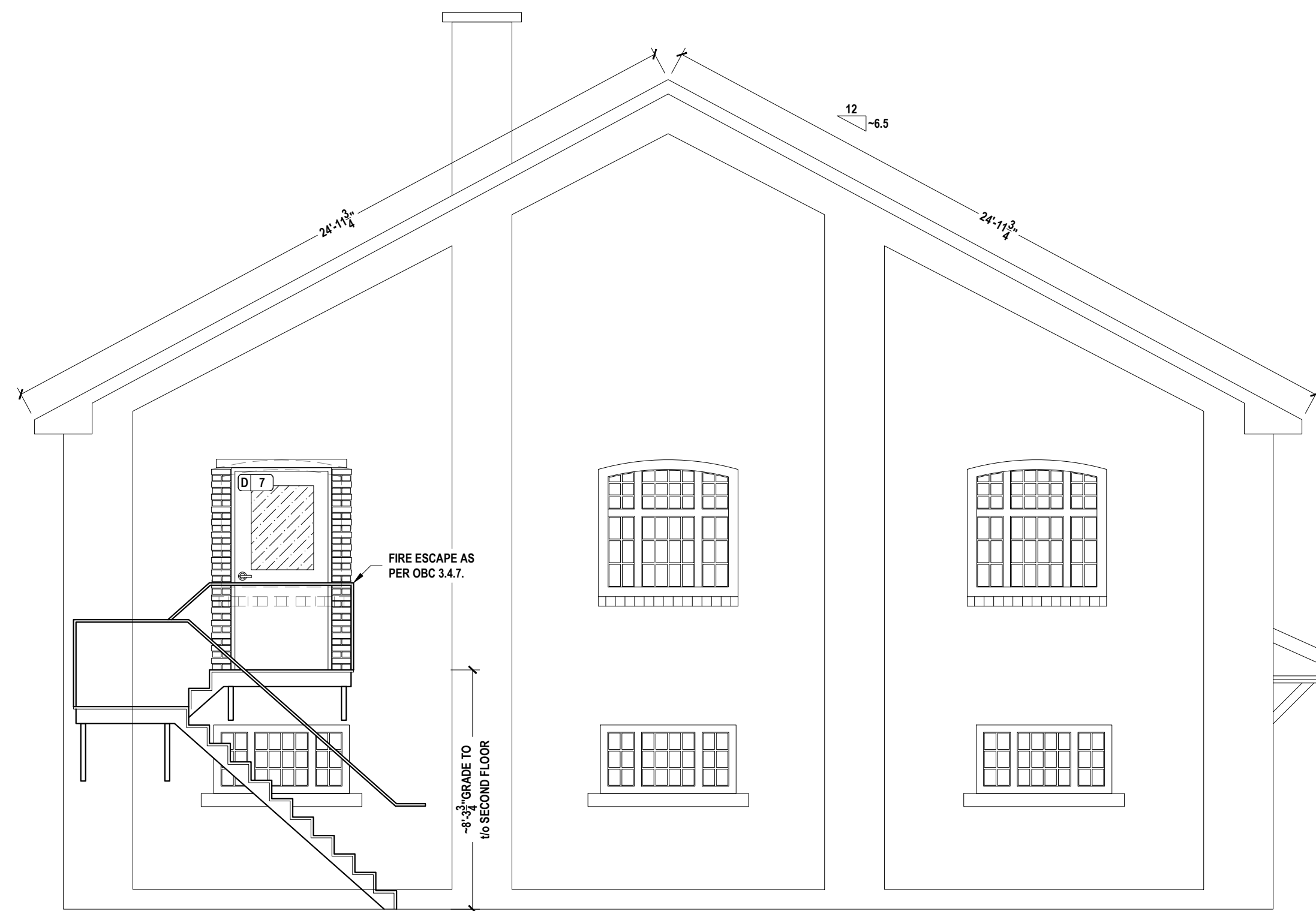
	253 Hudson Point Road, Elizabethtown, Ont. K6V 7E3
	Phone: (613) 498-2191 E-mail: dondegroot@dddg.ca Website: www.dddg.ca

CLIENT	MUNICIPALITY OF NORTH GRENVILLE KEMPTVILLE, ON
FILE NO.	241961 A.dwg
PROJECT NO.	241961
SCALE	AS NOTED
SHEET	4 OF 13
CONTINUED ON SHEET NO.	A5

TITLE	Pvt. BLAKE WILLIAMSON MEMORIAL HALL CHANGE OF USE NORTH / SOUTH ELEVATIONS
DWG. NO.	A4
	1



1 EAST ELEVATION  
A5 SCALE: 1/4" = 1'-0"



2 WEST ELEVATION  
A5 SCALE: 1/4" = 1'-0"



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FILE NO.	241961 A.dwg
PROJECT NO.	241961
SCALE	AS NOTED
SHEET	5 OF 13
CONTINUED ON SHEET NO. 11	

TITLE	Pvt. BLAKE WILLIAMSON MEMORIAL HALL CHANGE OF USE EAST / WEST ELEVATIONS
DWG. NO.	A5
	1

**MECHANICAL SPECIFICATION:**

REFER ALSO TO GENERAL SPECIFICATIONS ON SHEET A0.

**HVAC SCOPE OF WORK:**

SUPPLY AND INSTALL ALL MATERIALS, EQUIPMENT AND LABOUR TO INSTALL, CONSTRUCT AND COMMISSION THE FOLLOWING FULLY FUNCTIONING SYSTEMS AS DESCRIBED ON DRAWINGS IN SHEET LIST TABLE BELOW.

- A. RELOCATE EXISTING MAIN FLOOR FURNACE
- B. COMPLETE REMOVAL OF EXISTING UNUSED MAIN FLOOR FURNACE
- C. TWO NEW DUCTED HEAT PUMP UNITS INSTALLED WITH EXISTING FURNACES
- D. TWO NEW ENERGY RECOVERY VENTILATORS AND DUCTWORK
- E. DUCT WORK
  - E.A. RETAIN EXISTING DUCTWORK GRILLES, AND DIFFUSERS UNLESS INDICATED, REPAIR AS NECESSARY
  - E.B. PROVIDE NEW DUCTWORK, GRILLES, AND DIFFUSERS AS INDICATED

PROVIDE SETUP AND TRAINING FOR ALL EQUIPMENT, (I.E.) HVAC SYSTEMS AND THERMOSTATS.

THIS CONTRACTOR SHALL INSPECT THE PROJECT PRIOR TO TENDER TO REALIZE THE SCOPE OF WORK INVOLVED AND TO FAMILIARIZE HIMSELF WITH THE SITE CONDITIONS. THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL FIELD DATA INCLUDING MEASUREMENT, DRAWINGS, ORIENTATION, LOCATION AND SPECIFICATION. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY IN THIS REGARD. NOTIFY THE ENGINEER OF ANY DISCREPANCY BEFORE COMMENCING WORK. OBEY ONLY WRITTEN INSTRUCTIONS.

CONFER WITH ALL TRADES INSTALLING EQUIPMENT WHICH MAY AFFECT THE MECHANICAL WORK AND ARRANGE THE WORK IN PROPER RELATION WITH EQUIPMENT INSTALLED UNDER ALL DIVISIONS OF THE CONTRACT. NO EXTRA WILL BE ALLOWED FOR FAILURE TO DO SO.

LOCATION OF ALL REGISTERS, FANS, DIFFUSERS, THERMOSTATS, ACCESS PANELS, SWITCHES, ETC. TO BE APPROVED BY THE DESIGNER PRIOR TO INSTALLATION.

**HVAC SPECIFICATION:**

**GENERAL:**  
ALL MATERIALS AND INSTALLATION OF AIR DUCT SYSTEMS MUST CONFORM TO ONTARIO BUILDING CODE.

ALL DUCTWORK SHALL BE PERMANENTLY SUPPORTED OR CLIPPED TO PREVENT MOVEMENT/VIBRATION, SAGGING, PINCHING, DISTORTION, AND GENERALLY TO PROMOTE GOOD AIR FLOW.

PROVIDE HANGERS INSERTS, SLEEVES AND SUPPORTS AS REQUIRED/PREScribed BY APPLICABLE CODES.

WHEREVER ANY BASE BUILDING EQUIPMENT REQUIRES ACCESSIBILITY, MAINTENANCE OR ADJUSTMENT, PROVIDE ACCESS DOORS APPROVED BY ARCHITECT AND OWNER.

SUPPLY AND INSTALL FIRE DAMPERS COMPLETE WITH ACCESS DOORS AS REQUIRED BY AUTHORITIES. ALL DAMPERS SHALL BEAR THE LABEL OF UL/C OR OTHER APPROVED AUTHORITY'S LABEL.

PROVIDE BALANCING DAMPERS AS REQUIRED. DAMPERS SHALL BE COMPLETE WITH LOCKING QUADRANTS.

JOINTS AND SEAMS OF EVERY INTERIOR DUCT SHALL BE SECURELY FASTENED AND MADE SUBSTANTIALLY AIRTIGHT AND MEET DUCT SEAL LEVEL A (ASHRAE 90.1). PRESSURE SENSITIVE TAPE MAY ONLY BE USED IF IT MEETS UL-181A OR UL-181B. SLIP JOINTS SHALL HAVE A LAP OF AT LEAST 1" AND SHALL BE INDIVIDUALLY FASTENED.

**DUCTWORK:**  
EXISTING DUCTWORK, GRILLES, AND DIFFUSERS THROUGHOUT BUILDING ASSOCIATED WITH BASEMENT FURNACE ARE TO REMAIN. CONTRACTOR IS TO REPAIR ANY DAMAGE AS REQUIRED TO PROVIDE AN OPERABLE SYSTEM.

SHALL BE CONSTRUCTED OF ALUMINUM OR GALVANIZED SHEETS.

U.S. STANDARD GAUGE FOR DUCTS SHALL NOT BE LESS THAN #24 GAUGE.

EXHAUST DUCTS SHALL BE SUPPORTED BY HANGERS AND KEPT UP OFF OF THE TOPSIDE OF CEILINGS TO REDUCE SOUND TRANSMISSION.

INSTALLATION AND FABRICATION OF DUCTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ASHRAE AND SMACNA RECOMMENDATIONS.

ELBOWS SHALL BE MADE WITH A RADIUS RATIO OF 1-1/4. WHERE THIS IS NOT POSSIBLE, TURNING VANES SHALL BE USED.

INSTALL AND TEST EQUIPMENT ACCORDING TO THE MANUFACTURERS' INSTRUCTIONS FOR MOUNTING, SERVICE, CLEARANCES, AND COMMISSIONING. PROVIDE MINIMUM STRAIGHT RUNS WITH SECURE AND AIR-TIGHT DUCT-COLLAR CONNECTIONS. TEST, ADJUST, BALANCE, AND VERIFY SEQUENCE FOR INTENDED OPERATION. SUBMIT EQUIPMENT OPERATION AND MAINTENANCE INSTRUCTIONS WITH PROJECT MANUALS, INCLUDING FINAL SETTINGS AND TESTING/INSPECTION RECORDS WITH REFERENCE TO SERIAL OR LOCATION.

**AIR BALANCING:**  
AIR BALANCING TO BE PERFORMED BY A CERTIFIED AIR BALANCER IN THE PRESENCE OF THE MECHANICAL CONTRACTOR.

THE MECHANICAL CONTRACTOR IS RESPONSIBLE TO MAKE ANY AND ALL ADJUSTMENTS AS NECESSARY.

AIR BALANCING REPORT TO BE SUBMITTED TO THE OWNER.

**INSULATION:**  
PROVIDE R-4.2 MIN. EXTERNAL DUCT INSULATION WITH VAPOUR BARRIER FOR ALL FRESH AIR, MIXED AIR AND SUPPLY AIR DUCTWORK LOCATED IN CEILING SPACES AND IN NON-AIR-CONDITIONED AREAS OF THE BUILDING.

ALL FRESH AIR INTAKE DUCTS TO BE INSULATED ALONG THEIR ENTIRE LENGTH UP TO THE APPLIANCE THAT THEY SERVE.

ALL EXHAUST DUCTS TO BE INSULATED FOR A LENGTH OF AT LEAST 10' FROM THE EXTERIOR TERMINATION.

COMBUSTIBLE DUCTING, INSULATION, COVERINGS, TAPES AND ADHESIVES MUST HAVE A MAXIMUM FLAME-SPREAD RATING OF 25 AND MAXIMUM SMOKE-DEVELOPED RATING OF 50. THESE COMPONENTS MUST BE INSTALLED SUCH THAT THEY ARE INTERRUPTED AT A FIRE SEPARATION, DO NOT INTERFERE WITH OPERATION OF FIRE-DAMPERS & BALANCING DAMPERS, AND ARE NOT IN IMMEDIATE CONTACT WITH A HEAT SOURCE. COMBUSTIBLE COMPONENTS ARE PROHIBITED WHERE THEY MAY BE EXPOSED TO TEMPERATURES EXCEEDING 248F/120C.

**TERMINAL DEVICES:**  
EXHAUST OUTLETS MUST HAVE BACK-DRAFT DAMPERS AT THE DISCHARGE.

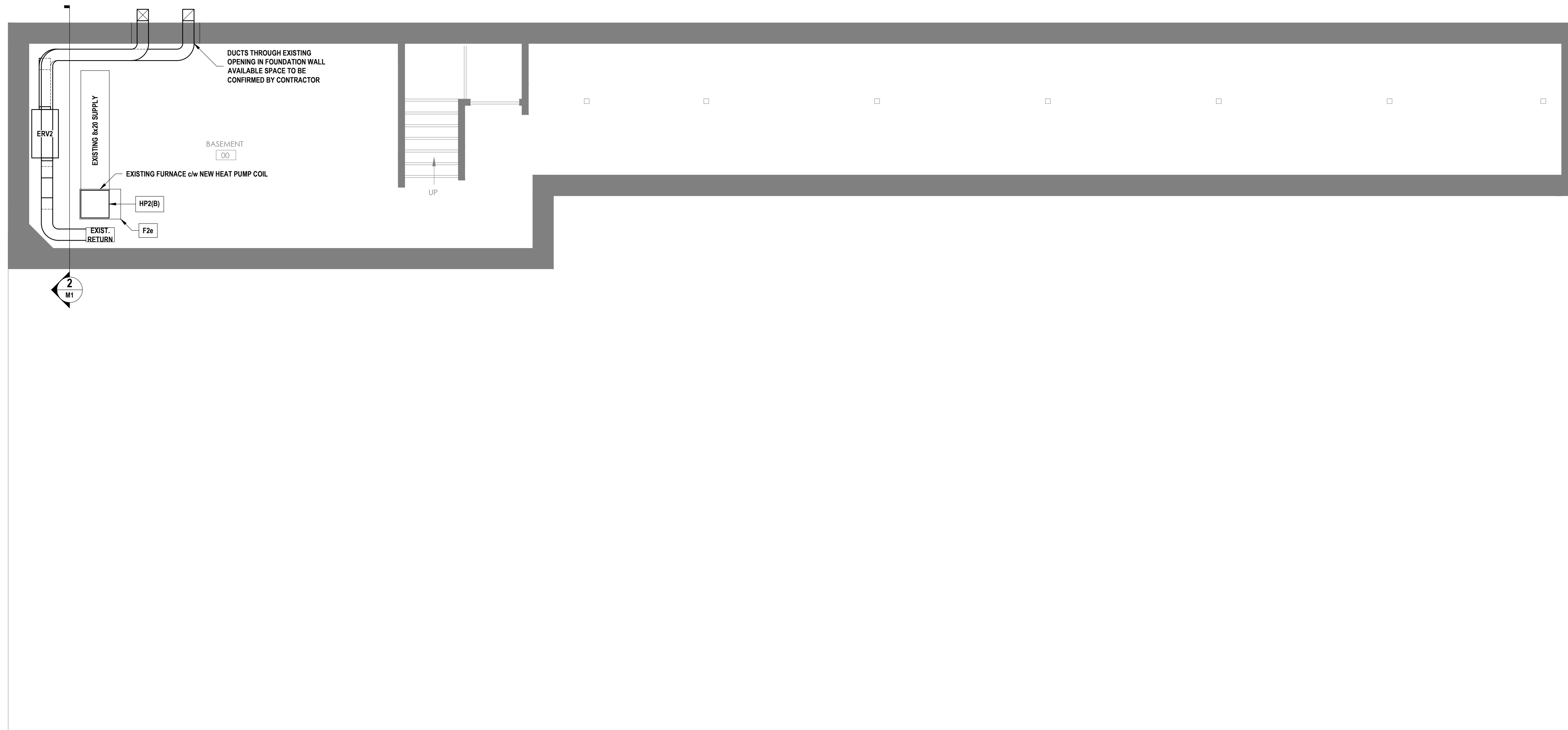
EXTERIOR OPENINGS FOR OUTDOOR AIR INTAKES AND EXHAUST OUTLETS MUST BE FITTED WITH CORROSION-RESISTANT MESH SCREENS AND WEATHER HOODS OR DRAINABLE LOUVRES WHILE ALLOWING THE DUCTS TO BE ACCESSED FOR MAINTENANCE.

PROVIDE ADEQUATE CLEARANCES BETWEEN EXHAUSTS AND INTAKES OR OPERABLE WINDOWS AS NOTED IN DRAWINGS OR OTHERWISE AS PRESCRIBED BY APPLICABLE CODES.

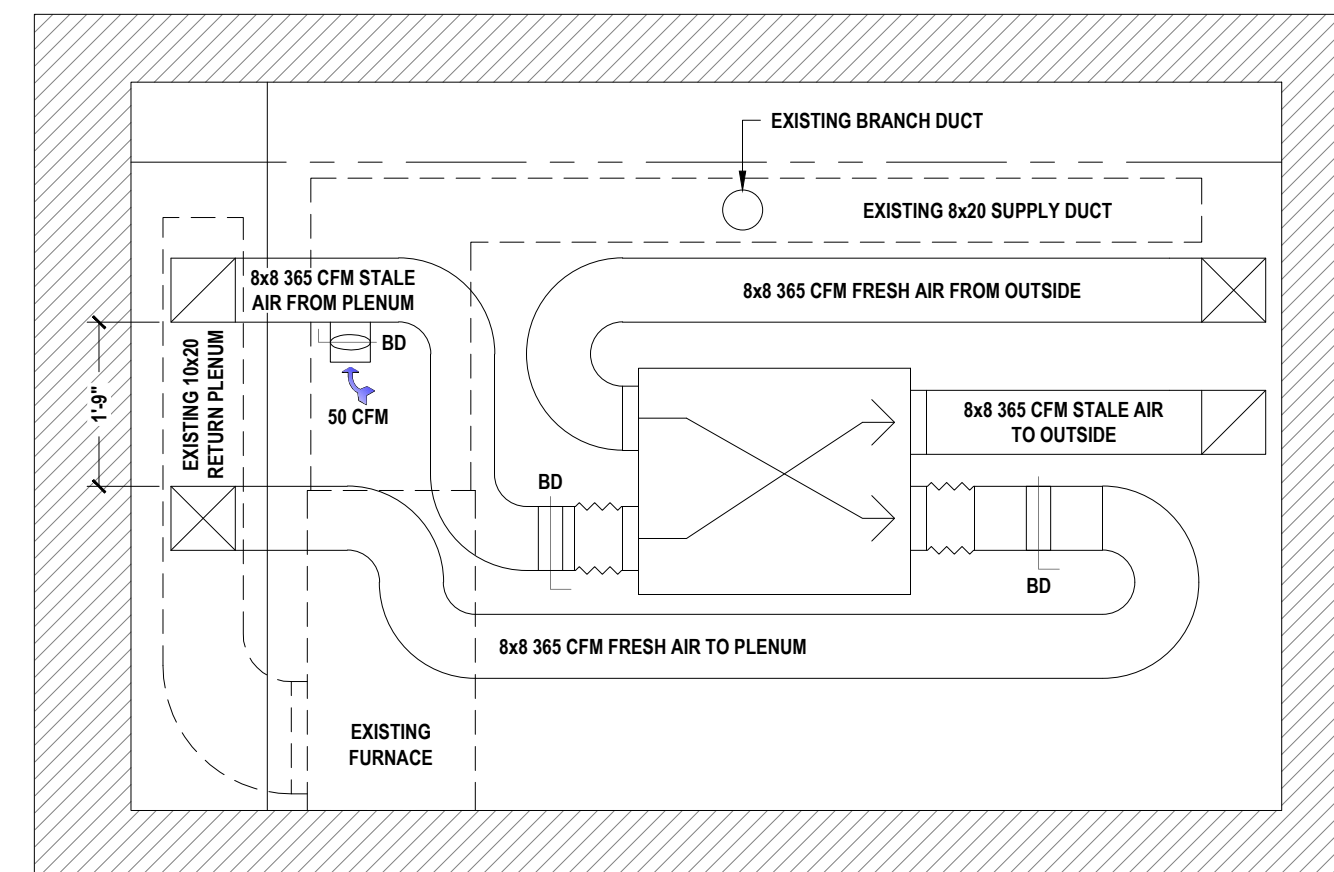
**THERMOSTATS:**  
PROVIDE ROUGH-IN FOR THERMOSTATS.

ROOM THERMOSTATS TO BE MOUNTED 1200MM [3'-11"] TO CENTRE AFF.

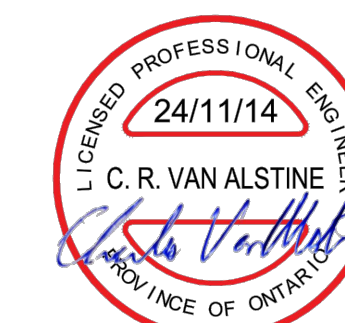
THERMOSTATS IN PUBLIC SPACES (E.G. VESTIBULE) SHALL INCLUDE LOCKING COVER.



**1 BASEMENT MECHANICAL PLAN**  
SCALE: 1/4" = 1'-0"

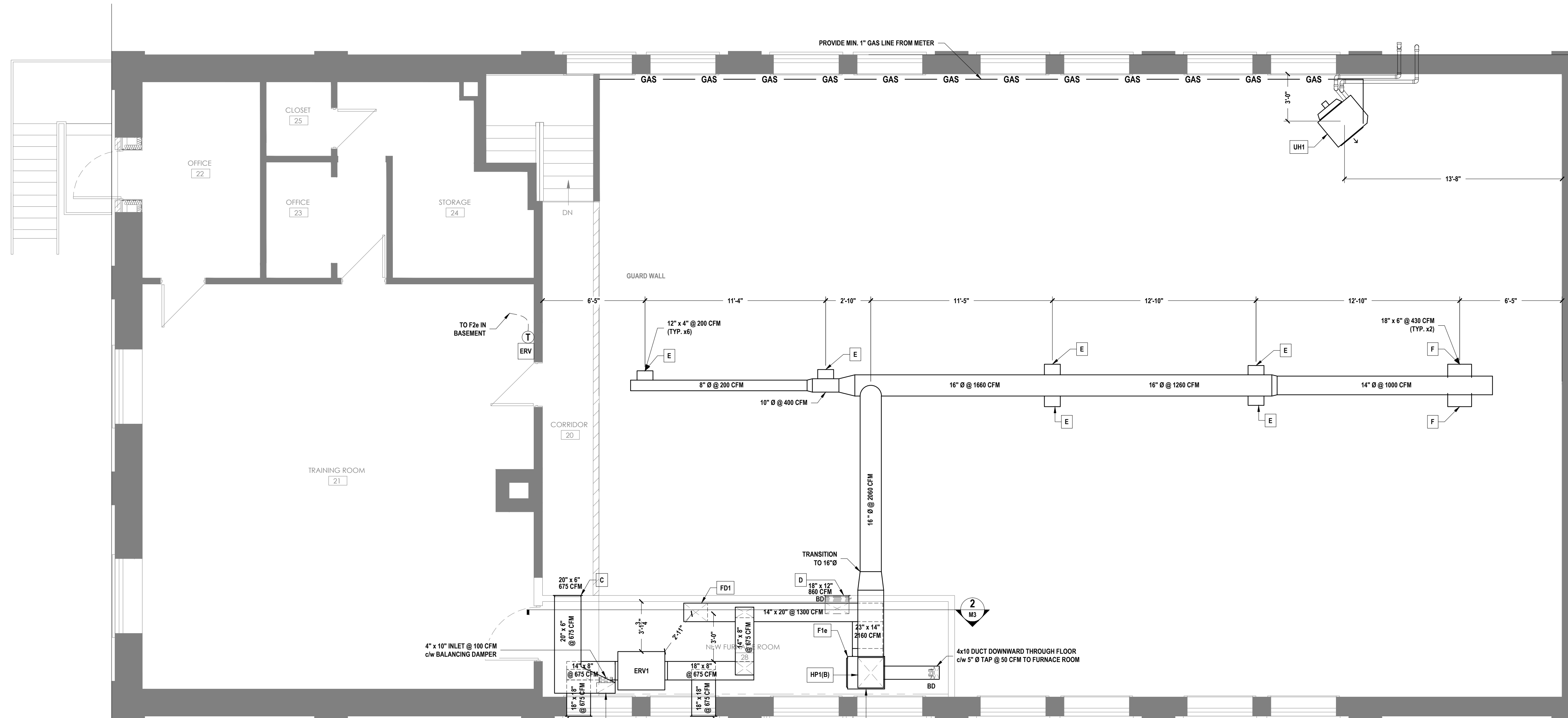


**2 SECTION THROUGH BASEMENT**  
SCALE: 1/2" = 1'-0"



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2									
1	2024-11-14	ISSUED FOR PERMIT	AJ						
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C	2024-10-10	REVISED FOR ARCHITECT AND ENG. REVIEW	AJ	DEN: A. JENSEN	DATE: 2024-07-30	FILE NO.: 241961 M.dwg	PROJECT NO.: 241961		
A	2024-08-30	PRELIMINARY FOR ARCHITECT AND CLIENT REVIEW	AJ	CH'D: D DE GROOT	DATE:	SCALE: AS NOTED	SHEET: 6 OF 13		
REV.	DATE	DESCRIPTION	INIT.	APP'D: C.VAN ALSTINE	DATE: 2024-11-14	CONTINUED ON SHEET NO. W2			





- NOTES:
- EXISTING TRAINING ROOM AND ADJACENT ROOMS AIR DISTRIBUTION, GRILLES, AND REGISTERS ARE TO BE MAINTAINED. REPAIR DAMAGE AS REQUIRED FOR AN OPERABLE SYSTEM.

1 SECOND FLOOR MECHANICAL PLAN  
M3 SCALE: 1/4" = 1'-0"

GRILLE, DIFFUSER, AND LOUVER SCHEDULE

DETAIL No.	DESCRIPTION	STATUS	SIZE	PANEL	BORDER	MANUFACTURER	MODEL	CONES	CFM.	THROW (FT.)	NC.	VELOCITY (FPM.)	Pt (IN. W.G.)	Pv (IN. W.G.)	Ps (IN. W.G.)	FINISH	GENERAL COMMENTS
A	RECTANGULAR RETURN GRILLE	RETURN AIR	18" x 18"	n/a	n/a	E.H. PRICE	93	n/a	1300	n/a						STANDARD WHITE	c/w BALANCING DAMPER AT CEILING
B	RECTANGULAR SUPPLY CEILING REGISTER	SUPPLY AIR	10" x 4"	n/a	n/a	GENERIC	GENERIC	n/a	50	n/a						STANDARD WHITE	c/w BALANCING DAMPER
C	RECTANGULAR RETURN GRILLE	STALE AIR	20" x 6"	n/a	n/a	E.H. PRICE	93	n/a	625	n/a						STANDARD WHITE	c/w BALANCING DAMPER
D	RECTANGULAR RETURN GRILLE	RETURN AIR	18" x 12"	n/a	n/a	E.H. PRICE	93	n/a	860	n/a						STANDARD WHITE	c/w BALANCING DAMPER
E	ROUND SUPPLY GRILLE	SUPPLY AIR	12" x 4"	n/a	n/a	E.H. PRICE	520-SR	n/a	200							STANDARD WHITE	c/w OPPOSED BLADE DAMPER, SPIRAL DUCT FRAME, SQUARE-TO-ROUND ADAPTER, 30° DOWNWARD ANGLE
F	ROUND SUPPLY GRILLE	SUPPLY AIR	18" x 6"	n/a	n/a	E.H. PRICE	520-SR	n/a	430							STANDARD WHITE	c/w OPPOSED BLADE DAMPER, SPIRAL DUCT FRAME, SQUARE-TO-ROUND ADAPTER, 30° DOWNWARD ANGLE
G	FRESH AIR INTAKE LOUVER	FRESH AIR	18" x 18"	n/a	n/a	E.H. PRICE	DE439	n/a	675							BLACK	c/w LOOSE SILL AND DRIP EDGE
H	STALE AIR EXHAUST LOUVER	STALE AIR	18" x 18"	n/a	n/a	E.H. PRICE	ZE439	n/a	675							BLACK	c/w LOOSE SILL AND DRIP EDGE

ENERGY / HEAT RECOVERY VENTILATOR SCHEDULE

UNIT REF.	MANUFACTURER	MODEL No.	PART No.	AIRFLOW (Cfm.)	VOLTAGE(p) Hz/AMPS.	WEIGHT (Lbs.)	MOUNTING ARRANGEMENT	GENERAL COMMENTS
ERV1	LIFEBREATH	530 ERV	n/a	675	115V/1p/60Hz/9A.	260	CEILING HUNG	PROVIDE DXPLO2 WALL CONTROL, INSTALLED IN ASSEMBLY ROOM (10) c/w LOCKABLE COVER, PIPE CONDENSATE TO F1a CONDENSATE PUMP
ERV2	LIFEBREATH	330 ERV	n/a	365	115V/1p/60Hz/5.5A.	120	CEILING HUNG	PROVIDE DXPLO2 WALL CONTROL, INSTALLED IN TRAINING ROOM (21) c/w LOCKABLE COVER

UNIT / RADIANT HEATER SCHEDULE

UNIT REF.	DESCRIPTION	MANUFACTURER	MODEL	AIRFLOW (Cfm.)	HEAT INPUT/OUTPUT	WEIGHT (Lbs.)	VOLTS	AMPS.	MOUNTING HEIGHT (AFF.)	LOUVER ANGLE	GENERAL COMMENTS
UH1	UNIT HEATER	REZNOR	UEZ-110	1,793	110,000 / 102,300 BTU/h	123	115	15	12'-0"	32°	c/w T'STAT. SET 3° LOWER THAN FURNACE, VERT. OR HORIZ. INLET/EXHAUST TERMINAL KIT

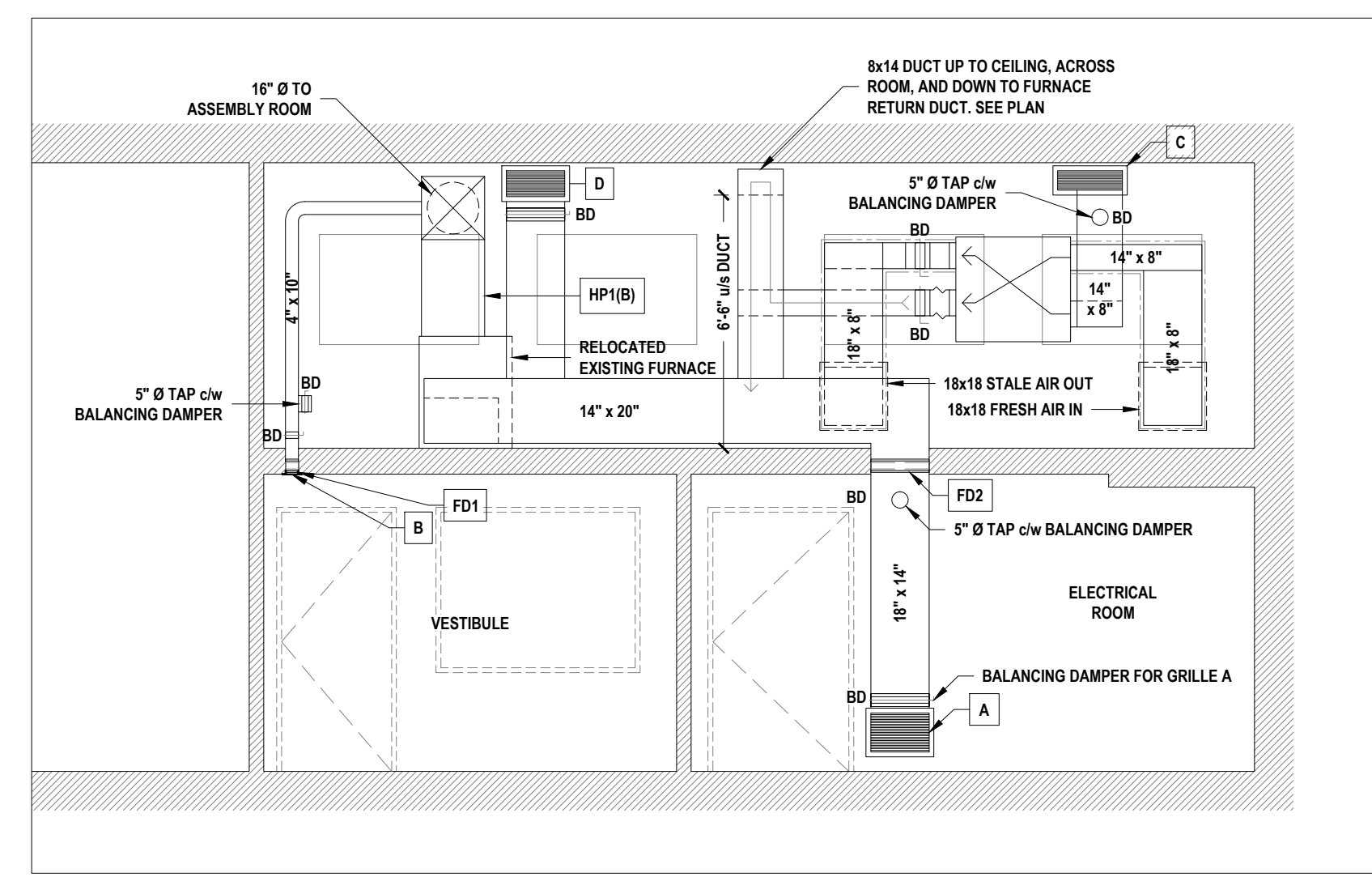
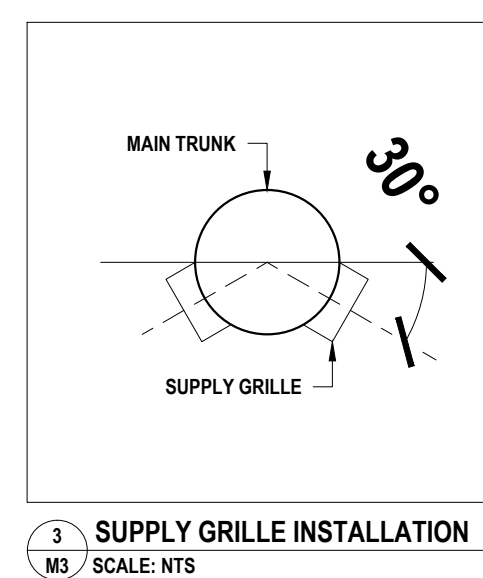
HVAC UNIT SCHEDULE

UNIT REF.	NOM. TONS	MANUFACTURER	MODEL No.	COOLING				HEATING				SUPPLY FAN			MIN. FRESH AIR (CFM.)	VOLTS / PHASE	MCA.	MOP.	WEIGHT (Lbs.)	MOUNTING ARRANGEMENT	INCLUDE OPTIONS	REMARKS
				TOTAL MBH	EER2	STAGES	ECONOMIZER	INPUT MBH	OUTPUT MBH	STAGES	CFM.	EXT. SP.	HP.									
HP1(A)	5	LENNOX	EL-17-X-P-1-660-230 OUTDOOR UNIT	57.0	12	1	n/a	54.0/35.4	2	n/a	n/a	208/230, 1ph	32.5	50	300	GROUND SUPPORT BRACKET (XTRA B2094 OR EQUIV.) BOLTED TO SLAB	OUTDOOR LINE SETS TO BE PROVIDED WITH COMPLETE COVER SYSTEM INCLUDING BRACKETS, SUPPORTS, END FITTINGS, COUPLINGS, ELBOWS, AND WALL INLET AS NECESSARY.	CAULK ALL JOINTS AND WALL PENETRATIONS. FOLLOW MANUFACTURER'S INSTRUCTIONS.				
HP1(B)			C35-60-D INDOOR UNIT												48	A-COIL IN FURNACE SUPPLY PLENUM	PROVIDE 2-STAGE THERMOSTAT WITH HEAT PUMP AS FIRST STAGE AND GAS FURNACE AS SECOND STAGE	RUN CONDENSATE BACK TO FURNACE CONDENSATE PUMP				
HP2(A)	3	LENNOX	EL-17-X-P-1-638-230 OUTDOOR UNIT	35.8	13	1	n/a	32.8/21.6	2	n/a	n/a	208/230, 1ph	17.8	30	250	GROUND SUPPORT BRACKET (XTRA B2094 OR EQUIV.) BOLTED TO SLAB	OUTDOOR LINE SETS TO BE PROVIDED WITH COMPLETE COVER SYSTEM INCLUDING BRACKETS, SUPPORTS, END FITTINGS, COUPLINGS, ELBOWS, AND WALL INLET AS NECESSARY.	CAULK ALL JOINTS AND WALL PENETRATIONS. FOLLOW MANUFACTURER'S INSTRUCTIONS.				
HP2(B)			C35-36-C INDOOR UNIT												29	A-COIL IN FURNACE SUPPLY PLENUM	PROVIDE 2-STAGE THERMOSTAT WITH HEAT PUMP AS FIRST STAGE AND GAS FURNACE AS SECOND STAGE	EXISTING TO REMAIN				
F1a	n/a	GOODMAN	GMEC961205DNAC					120	115.2	2	2160	0.2	1	n/a	115V/1p	13.3	15	154	FLOOR	CONDENSATE NEUTRALIZER, CONDENSATE PUMP BACK TO NEW WASHROOM SINK AHEAD OF TRAP	EXISTING TO BE RELOCATED	
F2a	n/a		GMIH50904CXAG					92	88.4	1	1,155	0.2	0.5	n/a	115V/1p	13.8	15	144	EXISTING		EXISTING TO REMAIN	

NOTES:  
-AMBIENT CONDITIONS BASED ON: SUMMER 95°F. DB, WINTER -5°F.

EXHAUST/INTAKE FAN SCHEDULE

UNIT REF.	DESCRIPTION	MANUF.	MODEL	CFM	VOLTAGE	MCA	WEIGHT	MOUNTING	CONTROL	COMMENTS	QUANTITY
EF1	WASHROOM EXHAUST FAN	GREENHECK	SP-890-QD	70	120V / 1p / 60 Hz.	0.65	10 lbs	CEILING	LIGHT SWITCH	c/w STANDARD GRILLE, ROUND DUCT CONNECTION, CEILING RADIATION DAMPER. TERMINATE OUTSIDE WITH WALL CAP c/w BACKDRAFT DAMPER & BIRD SCREEN	1



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CLIENT	MUNICIPALITY OF NORTH GRENVILLE KEMPTVILLE, ON
FILE NO.	241961 M.dwg
PROJECT NO.	241961
SCALE	AS NOTED
SHEET	8 OF 13
DATE	2024-07-30
DATE	2024-11-14

Pvt. BLAKE WILLIAMSON MEMORIAL HALL  
CHANGE OF USE  
SECOND FLOOR MECHANICAL PLAN

DWG. NO. M3 1

24/11/14  
C. R. VAN ALSTINE  
PROFESSIONAL ENGINEER  
PROVINCE OF ONTARIO



**ELECTRICAL SPECIFICATIONS:**

**ELECTRICAL SCOPE OF WORK:**  
 PROVIDE ALL MATERIALS, EQUIPMENT AND LABOUR REQUIRED TO CONSTRUCT A COMPLETE, PROPERLY FUNCTIONING ELECTRICAL SYSTEM FROM POINT OF ELECTRICAL SERVICE THROUGH TO DISTRIBUTION, FEEDERS, PANELBOARDS AND BRANCH CIRCUIT WIRING TO ALL OUTLETS, DEVICES, FIXTURES AND IN ACCORDANCE WITH THE SPECIFICATIONS AND PLANS. THE WORK SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

- A. DE-ENERGIZE AND DISCONNECT EXISTING ELECTRICAL COMPONENTS THAT ARE TO BE REMOVED OR REVISED.
- B. ELECTRIC SPACE HEATING EQUIPMENT.
- C. MISCELLANEOUS ELECTRICAL WORK FOR OTHER TRADES.
- D. SUPPLY, INSTALLATION, AND RELOCATION OF LIGHTING FIXTURES INDICATED ON DRAWINGS.
- E. RECONNECT EXISTING ELECTRICAL COMPONENTS THAT ARE TO REMAIN.

REFER TO GENERAL SPECIFICATIONS ON SHEET A0.

INSPECT THE PROJECT PRIOR TO TENDER TO REALIZE THE SCOPE OF WORK INVOLVED AND THE SITE CONDITIONS. VERIFY ALL FIELD DATA INCLUDING MEASUREMENT, DRAWINGS, ORIENTATION, LOCATION AND SPECIFICATION. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY IN THIS REGARD. NOTIFY THE ENGINEER OF ANY DISCREPANCY BEFORE COMMENCING WORK. OBEY ONLY WRITTEN INSTRUCTIONS.

CONFER WITH ALL TRADES INSTALLING EQUIPMENT WHICH MAY AFFECT THE ELECTRICAL WORK FOR EQUIPMENT INSTALLED UNDER ALL DIVISIONS OF THE CONTRACT. NO EXTRA WILL BE ALLOWED FOR FAILURE TO DO SO.

**DEMOLITION:**  
 VISIT THE SITE, EXAMINE THE EXISTING CONDITIONS AND BECOME FAMILIAR WITH THE EXTENT OF THE NECESSARY REMOVAL, RELOCATION, RECONNECTING, AND REROUTING OF ELECTRICAL EQUIPMENT AND WIRING AS NECESSARY FOR THE COMPLETION OF THE PROJECT.

REVIEW AND CONFIRM WITH THE ARCHITECT/DESIGNER'S DRAWINGS FOR THE COMPLETE EXTENT OF DEMOLITION AND ALTERATION. MAKE SAFE AND DISCONNECT ALL POWER AND SYSTEMS, AS AND WHEN, AND TO THE EXTENT REQUIRED TO FACILITATE WITH THE DEMOLITION.

ENSURE THAT ALL ELECTRICAL, LIFE SAFETY SERVICES, AND SERVICES FOR EXISTING EQUIPMENT, IN AREAS OUTSIDE THE AREAS OF THIS WORK, THAT ARE REQUIRED TO REMAIN IN SERVICE, SHALL DO SO.

RELOCATE ANY ELECTRICAL FEEDERS OR EQUIPMENT THAT ARE REQUIRED TO REMAIN IN SERVICE, THAT ARE SECURED TO EXISTING WALLS, FLOORS OR CEILINGS TO BE DEMOLISHED OR THAT ARE BURIED AND REQUIRED TO BE EXCAVATED FOR NEW WORK.

REMOVE AND REPLACE ANY ELECTRICAL EQUIPMENT ON WALLS OR CEILINGS THAT WILL BE DEMOLISHED AND REBUILT.

WHEN DELETING AND/OR MAKING SAFE EXISTING ELECTRICAL WORK, ENSURE THAT IT INCLUDES ALL WIRING BACK TO THE ASSOCIATED PANEL BOARDS OR CONTROL PANEL.

DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES, DEVICES, OUTLETS, ETC. WHICH ARE NOT TO BE REUSED. SUCH ITEMS SHALL BE RE-CARTONED AND TURNED OVER TO THE OWNER AT A PLACE DESIGNATED BY THE OWNER.

CUT BACK AND CAP UNUSED RACEWAY AND OUTLETS AND REMOVED UNLISED WIRING BACK TO PANEL BOARD IN APPROVED MANNER.

INCLUDE IN DEMOLITION WORK FOR REMOVAL OF ALL COMMUNICATION DEVICES, OUTLETS, CABLES, ETC., WHICH ARE NOT TO BE REUSED. REMOVE ALL UNNECESSARY CABLES AND EQUIPMENT IN HUB ROOMS AND/OR TELEPHONE ROOMS WITH EXTREME CARE TO AVOID ANY ACCIDENTAL SHUTDOWN TO EXISTING SERVICES SERVING OTHER PARTS OF THE BUILDING.

PROVIDE BLANK COVER PLATE WHERE OUTLETS ARE REMOVED FROM EXISTING WALLS TO REMAIN.

ALL EXISTING ELECTRICAL EQUIPMENT WHICH IS NO LONGER REQUIRED SHALL BE REMOVED AND DISPOSED OF, OFF SITE.

THE CONTRACTOR IS RESPONSIBLE AND WILL PAY FOR ANY DAMAGE TO THE BASE BUILDING INCURRED BY WORK OF THIS DIVISION, OR REPAIR TO THE SATISFACTION OF THE CONSULTANT.

CARRY OUT THE WORK WITH MINIMUM OF NOISE, DUST AND DISTURBANCE.

INSERTS, HANGERS AND SLEEVES:  
 PROVIDE HANGERS INSERTS, SLEEVES AND SUPPORTS AS REQUIRED.

BURNING OF HOLES IN STRUCTURAL STEEL IS PROHIBITED.

FOLLOW I-JOIST MANUFACTURER'S INSTRUCTIONS WHEN DRILLING HOLES THROUGH WOOD I-JOISTS.

**ACCESS DOORS:**  
 WHEREVER ANY BASE BUILDING EQUIPMENT REQUIRES ACCESSIBILITY, MAINTENANCE OR ADJUSTMENT, PROVIDE ACCESS DOORS APPROVED BY DESIGN BUILDER/ARCHITECT AND OWNER. ARRANGE FOR ITS INSTALLATION BY THE DIVISION IN WHOSE WORK IT OCCURS.

**NOISE AND VIBRATION:**  
 ELECTRICAL EQUIPMENT IS TO OPERATE WITHOUT OBJECTIONABLE NOISE OR VIBRATION.

CONNECTIONS TO NOISE-PRODUCING AND VIBRATING EQUIPMENT MUST BE MADE WITH FLEXIBLE CONDUIT.

VIBRATION ISOLATORS ARE TO BE PROVIDED WHERE INDICATED OR REQUIRED. TRANSFORMERS TO BE ISOLATED FROM THE STRUCTURE, WITH SPRING AND RUBBER ISOLATORS WHEN WALL MOUNTED OR SUSPENDED AND 12MM (1/2") HIGH DENSITY NEOPRENE SANDWICH PADS (TYPE MW) WHEN FLOOR MOUNTED.

**IDENTIFICATION:**  
 PROVIDE LAMINATED NAMEPLATES ON ALL PANELS, DISCONNECT SWITCHES, SPLITTERS, ETC. TO MATCH BASE BUILDING. NAMEPLATES SHALL BE MECHANICALLY ATTACHED TO EQUIPMENT BY MEANS OF RIVETS OR SELF TAPPING SCREWS.

PROVIDE TYPEWRITTEN DIRECTORIES FOR NEW PANELS.

CLEARLY MARK ALL EXPOSED CONDUIT, PULL BOXES, JUNCTION BOXES, ETC., TO INDICATE THE NATURE OF THE SERVICE TO MATCH BASE BUILDING STANDARDS.

**GROUNDING AND BALANCING:**  
 REASSESS ALL POWER CIRCUIT FEEDERS. IF GROUND RESISTANCE ON ANY CIRCUIT IS LESS THAN THAT REQUIRED BY CSA OR OTHER GOVERNING REGULATIONS, SUCH CIRCUITS ARE TO BE CONSIDERED DEFECTIVE AND MUST BE REPLACED.

MEASURE PHASE CURRENT TO PANEL BOARDS WITH NORMAL LOADS OPERATING AT TIME OF ACCEPTANCE. ADJUST BRANCH CIRCUIT CONNECTIONS AS REQUIRED TO OBTAIN BEST BALANCE OF CURRENT BETWEEN PHASES AND SUBMIT A REPORT FOR INSERTION INTO MANUALS.

**LIGHTING FIXTURES AND LAMPS:**  
 SUPPLY, INSTALL, ADJUST AND CLEAN ALL FIXTURES, LAMPS AND LENSES AS DESCRIBED IN THE FIXTURE SCHEDULE. PROVIDE ALL AUXILIARY SUPPORTS AS REQUIRED. FIXTURES, LAMPS AND LENSES WILL BE SUPPLIED BY THIS CONTRACTOR.

ALL LUMINAIRES WILL BE COMPLETE WITH NEW LAMPS, BALLASTS, ACCESSORIES AND MOUNTING APPURTENANCES. ALL LUMINAIRES TO BE CSA APPROVED. AIM AND ADJUST ALL LUMINAIRES IN PRESENCE OF ENGINEER.

**EMERGENCY LIGHTING AND EXIT LIGHTS:**  
 SUPPLY AND INSTALL ALL EXIT & EMERGENCY LIGHTS AS SHOWN ON DRAWINGS.

ALL FIXTURES TO BE CSA APPROVED. AIM AND ADJUST ALL LUMINAIRES AND DEMONSTRATE TO ENGINEER.

EMERGENCY LIGHTING CONDUCTORS MUST BE PROTECTED AS PER CBC, 3.2.7.10 (PROTECTION OF ELECTRICAL CONDUCTORS)

**ELECTRICAL WIRING:**  
 ALL POWER WIRING TO BE CARRIED OUT UNDER ELECTRICAL CONTRACTORS WORK. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL DISCONNECT SWITCHES FOR ALL MOTORS UNLESS OTHERWISE NOTED. THIS CONTRACTOR SHALL SUBMIT SCHEMATIC DIAGRAMS FOR CONTROL WIRING, RELATING TO MECHANICAL EQUIPMENT FOR REVIEW PRIOR TO INSTALLATION.

**SERVICE EQUIPMENT:**  
 ALL NEW PANEL BOARDS, DISCONNECT SWITCHES, METERS, TRANSFORMERS, ETC. TO BE SAME MANUFACTURER.

**OUTLET BOXES:**  
 SHALL BE 4" OCTAGONAL OR 4" SQUARE. EXTRA LARGE BOXES SHALL BE IN ACCORDANCE TO OHERC CODE IN LIEU OF SIZES SPECIFIED WHERE NECESSARY IN ORDER TO PREVENT UNLIE QUOD CROWDING OF WIRE. USE NON-FERROUS ALLOY OR ALUMINIUM BOXES WITH GASKETED BLANK OR SPRING LOADED COVERS FOR ALL EXTERIOR LOCATIONS. RECEPTACLE AND SWITCH BOXES SHALL BE STANDARD 1104 OR AS REQUIRED FOR WALL CONSTRUCTION OR FINISH.

OUTLET BOXES SHALL BE ELECTRO-GALVANIZED STEEL, SIZED AS REQUIRED BY CODE. PROVIDE EACH LIGHT SWITCH, RECEPTACLE, COMMUNICATION AND OTHER OUTLET WITH AN OUTLET BOX. INSTALL PLUMB AND TRUE. PROVIDE 76MM (3") DEEP 1004 BOXES FOR DIMMING SWITCHES. ADJUST ALL OUTLET BOXES TO THEIR RESPECTIVE LOCATIONS AND SUPPORT INDEPENDENTLY OF THE CONDUIT. DO NOT CADDIE CLIP TO CEILING HANGERS. PROVIDE BLANK COVER PLATES FOR BOXES WITHOUT WIRING DEVICES. DO NOT INSTALL OUTLET BOXES BACK TO BACK IN PARTITIONS. STAGGER TO PREVENT SOUND TRANSFER AND REDUCTION OF FIRE RESISTANCE RATING. TWO OR MORE OUTLET BOXES THAT OCCUR AT THE SAME LOCATION SHALL BE GANGED TOGETHER IN THE SAME COVER PLATE UNLESS OTHERWISE NOTED.

OUTLET AND JUNCTION BOXES LOCATED IN FIRE RATED WALL AND CEILING ASSEMBLIES SHALL HAVE A FIRE RESISTANCE RATING TO MATCH OR EXCEED ASSEMBLY.

**LOCATION OF OUTLETS:**  
 REFER TO DRAWINGS FOR LOCATIONS OF ALL LIGHTING FIXTURES AND WIRING DEVICES.

CHANGE LOCATION OF OUTLETS AT NO COST OR CREDIT, PROVIDING DISTANCE DOES NOT EXCEED 3M (10'-0") AND INFORMATION IS GIVEN PRIOR TO INSTALLATION.

ALL OUTLETS TO BE MARKED ON JOB SITE FOR APPROVAL BY BUILDER/ARCHITECT PRIOR TO INSTALLATION.

RECEPTACLE & SWITCH MOUNTING HEIGHTS (AFF.):

RECEPTACLES	SWITCHES
16"	36" - 43"
EXTERIOR	N/A
OFFICE AREAS	48"
MECH AREAS	48"

**WIRE & CABLE:**  
 ALL CONDUCTORS SHALL BE COPPER UNLESS OTHERWISE NOTED. USE #14, #12 AND #10 SOLID, #8 AND LARGER STRANDED, WITH RW90 INSULATION, 600 VOLT RATING. BRANCH CIRCUIT RUNS EXCEEDING 75 FEET SHALL BE #10 AWG OR LARGER TO THE FIRST OUTLET.

NMD CABLE IS ACCEPTABLE FOR BRANCH WIRING ROUTED WITHIN WALLS & JOISTS.

BX#12 MAY BE USED IN CEILING SPACE FROM CEILING DISTRIBUTION BOX DOWN TO RECEPTACLES IN PARTITIONS. BX RUNS IN CEILING SPACE NOT TO EXCEED 3048MM, (10'-0") IN LENGTH. DO NOT RUN BX CABLES INTO PANEL BOARDS.

SIZE ALL WIRE FOR MAXIMUM 3% VOLTAGE DROP. ALL HOME RUNS TO BE IN CONDUIT.

WHERE CONDUCTORS OR CONDUITS PASS THROUGH FIRE RATED WALLS OR FLOORS, PROVIDE FIRE STOPPING MATERIAL LISTED WITH, AND BEAR LABEL OF CSA AND ULC, AND MAINTAIN SAME FIRE RATING OF BUILDING COMPONENT PENETRATION.

**1 BASEMENT ELECTRICAL PLAN**  
 E1 SCALE: 1/4" = 1'-0"

**GROUNDING:**  
 GROUND ALL EQUIPMENT IN ACCORDANCE WITH LATEST EDITION OF THE ELECTRICAL SAFETY CODE. PROVIDE SEPARATE GREEN INSULATED GROUND CONDUCTOR IN EVERY CONDUIT TO ALL DEVICES, LUMINAIRES AND FEEDERS (PANEL BOARDS, SPLITTERS, DISCONNECT SWITCHES, ETC.).

**ELECTRIC HEATERS:**  
 PROVIDE AND INSTALL ELECTRIC WALL, SUSPENDED, & BASEBOARD HEATERS WITH THERMOSTATS.

**BUILDING THERMOSTATS:**  
 PROVIDE ROUGH-IN CONDUIT FOR THERMOSTATS & CONTROLS FOR FRESH AIR, MUA, ERV, AND A/C UNITS. (SEE MECHANICAL DRAWINGS)

**JUNCTION BOXES AND PULL BOXES:**  
 JUNCTION BOXES AND PULL BOXES SHALL BE SUITABLE FOR SURFACE MOUNTING AND BE OF WELDED STEEL CONSTRUCTION WITH INSULATED GROUND CONDUCTOR IN EVERY CONDUIT TO ALL DEVICES, LUMINAIRES AND FEEDERS (PANEL BOARDS, SPLITTERS, DISCONNECT SWITCHES, ETC.).

CONNECT THE ZONES AS FOLLOWS:  
 EACH FLOOR IS ITS OWN ZONE (3)  
 THE OPEN ASSEMBLY SPACE (ROOM 10) IS ITS OWN ZONE (1)  
 EACH STAIR IS ITS OWN ZONE (2)  
 THE ELECTRICAL ROOM (ROOM 26) IS ITS OWN ZONE (1)  
 THE BASEMENT FURNACE IS ITS OWN ZONE (1)  
 THE FURNACE ROOM (ROOM 28) IS ITS OWN ZONE (1)

CONTRACTOR TO ENSURE FOLLOWING MINIMUM SOUND LEVELS ARE ATTAINED:  
 75 DBA (MIN.) IN ALL SLEEPING ROOMS WITH INTERVENING DOORS CLOSED.  
 10 DBA ABOVE AMBIENT (65 DBA (MIN.) IN ALL OTHER AREAS.

SUPPLY DEDICATED POWER CIRCUITS TO ALARM PANEL.

ALL FIRE-RATED DOORS WITH POWER DOOR OPERATORS SHALL BE TESTED TO ENSURE THAT THE HOLD-OPEN PERIOD IS LESS THAN 10 SECONDS OR THE DOOR SHALL BE CONNECTED TO THE FIRE ALARM TO DE-ENERGIZE UPON ACTIVATION OF THE ALARM.

**MANUAL PULL STATIONS:**  
 PULL STATIONS SHALL BE MOUNTED ON THE LATCH SIDE OF EXIT DOORS AT A HEIGHT OF 4'-0" (1200 MM) AFF AND NO MORE THAN 5'-0" (1500 MM) FROM EDGE OF DOOR.

**FIRE HORNS / STROBES:**  
 ULC AUDIBLE SIGNAL DEVICE TO BE NOT LESS THAN 7'-6" (2300MM) ABOVE FINISHED FLOOR AND AT LEAST 6" (150MM) BELOW CEILING MEASURED FROM TOP OF DEVICE.

**SMOKE DETECTOR:**  
 ALL SMOKE DETECTORS SHALL BE CEILING MOUNTED AND AT LEAST 4" (100MM) FROM WALL.

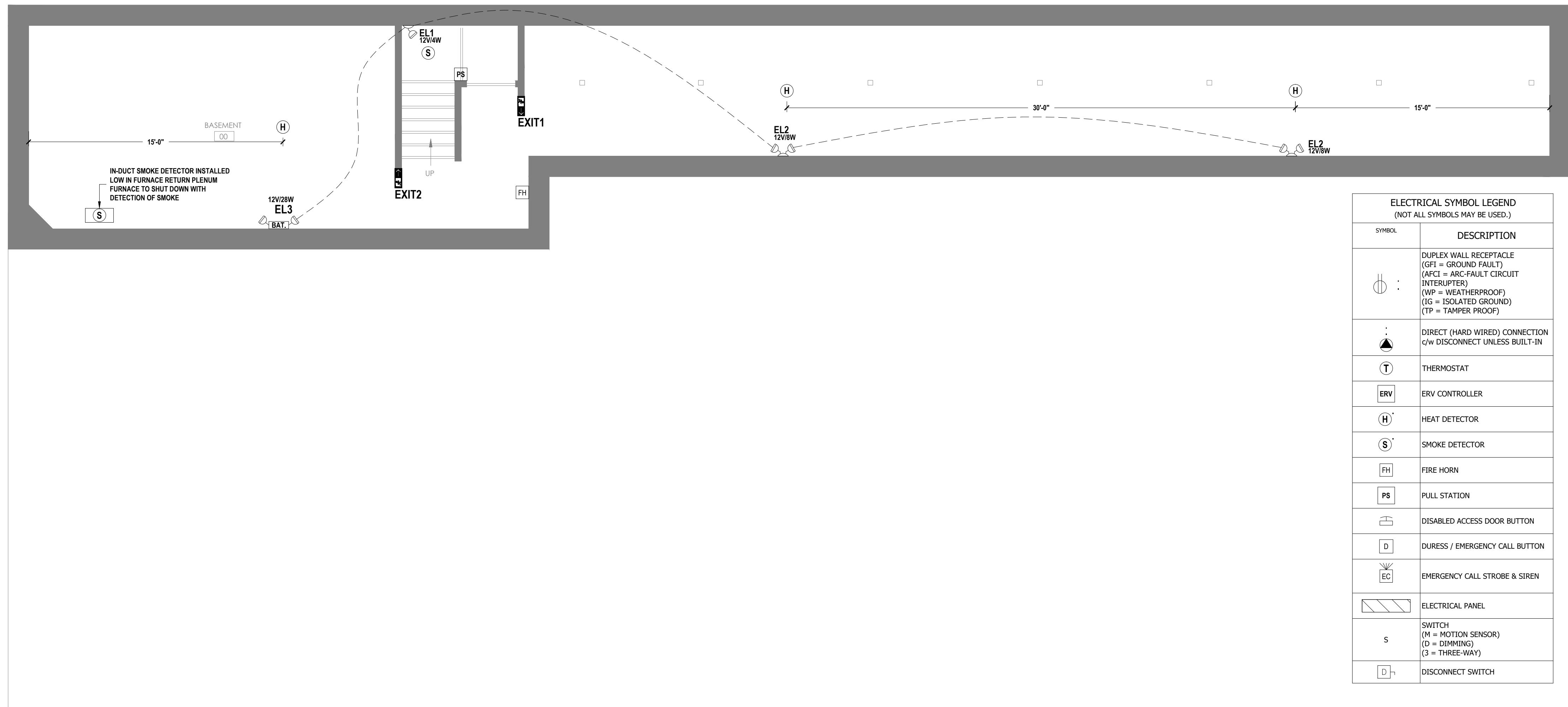
**HEAT DETECTOR:**  
 ALL HEAT DETECTORS SHALL BE CEILING MOUNTED AND AT LEAST 4" (100MM) FROM WALL.

**RECEPTACLES:**  
 PROVIDE SPECIFICATION GRADE 15A, 120 VOLT "U" GROUND RECEPTACLES, DUPLEX TYPE WITH MATCHING COVER PLATES:  
 PAS #2622 SERIES  
 HUBBELL #HBL2162 SERIES  
 LEVITON #5621-2 SERIES.  
 REFER TO LEGEND FOR OTHER TYPES.

**RECEPTACLES ON SEPARATE CIRCUITS ARE TO HAVE CIRCUIT NUMBER IDENTIFIED ON THE WALL PLATE AND FURTHER IDENTIFIED WITH THE EXACT LOCATION LISTED IN THE PANEL DIRECTORY.**

**POWER DOOR OPERATORS:**  
 CENTRE LOCATED BETWEEN 900MM (3'-0") AND 1100MM (3'-7") AFF., AND 600MM (2'-0") TO 1500MM (5'-0") BEYOND THE SWING OF THE DOOR WHERE THE DOOR OPENS TOWARD THE CONTROL.

**SEISMIC PROTECTION:**  
 CONTRACTOR TO PROVIDE FOR ENGINEERED DESIGN AND INSTALLATION OF SEISMIC CONSTRAINTS AS PER CBC 4.1.8 AND PROVIDE DOCUMENTATION TO SATISFY AUTHORITY.

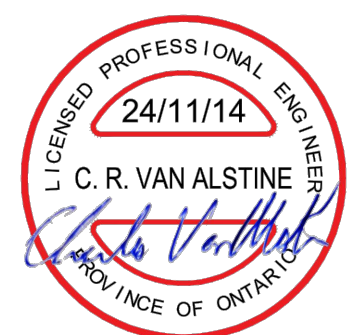


ELECTRICAL SYMBOL LEGEND (NOT ALL SYMBOLS MAY BE USED.)	
SYMBOL	DESCRIPTION
	DUPLEX WALL RECEPTACLE (GFI = GROUND FAULT) (AFCI = ARC-FAULT CIRCUIT INTERRUPTER) (WP = WEATHERPROOF) (IG = ISOLATED GROUND) (TP = TAMPER PROOF)
	DIRECT (HARD WIRED) CONNECTION C/W DISCONNECT UNLESS BUILT-IN
	THERMOSTAT
	ERV CONTROLLER
	HEAT DETECTOR
	SMOKE DETECTOR
	FIRE HORN
	PULL STATION
	DISABLED ACCESS DOOR BUTTON
	DURESS / EMERGENCY CALL BUTTON
	EMERGENCY CALL STROBE & SIREN
	ELECTRICAL PANEL
	SWITCH (M = MOTION SENSOR) (D = DIMMING) (3 = THREE-WAY)
	DISCONNECT SWITCH

ELECTRIC HEATER SCHEDULE											
DETAIL	DESCRIPTION	MANUF.	MODEL NO.	VOLTAGE	AMPS.	LOCATION	COLOUR	UNIT WATTS.	QTY.	GENERAL COMMENTS	TOTAL UNIT Kw.
FA1	FORCED AIR HEATER (160 Cfm.)	OUELLET	OAC02000-T	240	8.3	ENTRANCE VESTIBULE	WHITE	2000	1	c/w BUILT-IN TAMPER PROOF THERMOSTAT	2.0

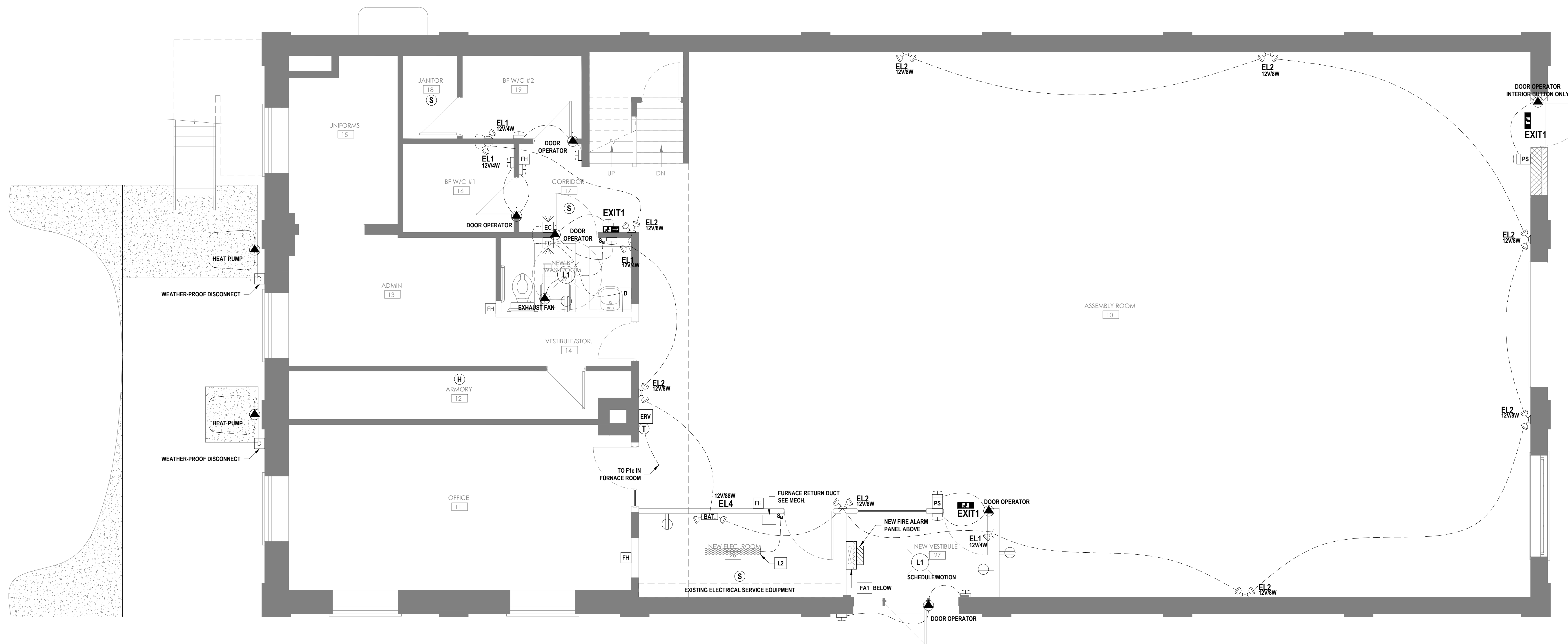
EMERGENCY LIGHT FIXTURE SCHEDULE															
DETAIL	DESCRIPTION	MANUF.	MODEL	CAT. NO.	MNTG.	WATTS	LAMPS	TYPE	DC VOLTS	AC VOLTS	MNTG. HEIGHT	GENERAL COMMENTS	QTY	WATTS/ FIXT.	TOTAL WATTS
EXIT1	PICTOGRAM EXIT SIGN - SINGLE FACE	LUMACELL	LS SERIES	LS1WS	WALL	2.5	1	LED	N/A	120	8' AFF	PICTOGRAM EXIT SIGNS TO MEET ISO 3864-1 (GREEN RUNNING MAN) & CSA 22.2 NO. 141-10 (SELF POWERED M.N. 2HRS.)	2	2.5	5
EXIT2	PICTOGRAM EXIT SIGN - DOUBLE FACE	LUMACELL	LS SERIES	LS2WS	WALL	2.5	1	LED	N/A	120	8' AFF	PICTOGRAM EXIT SIGNS TO MEET ISO 3864-1 (GREEN RUNNING MAN) & CSA 22.2 NO. 141-10 (SELF POWERED M.N. 2HRS.)	8	2.5	20
EL1	SINGLE REMOTE HEAD EMERGENCY LIGHT	EMERGL-LITE	EF9 SERIES	EF9M-LG	WALL	4	1	LED	12	N/A	7' AFF	TILT HEADS @ 45°	7	4	28
EL2	DOUBLE REMOTE HEAD EMERGENCY LIGHT	EMERGL-LITE	EF9 SERIES	EF9DM-LG	WALL	4	2	LED	12	N/A	7' AFF	TILT HEADS @ 45°	12	8	96
EL3	BATTERY PACK EMERGENCY LIGHT	EMERGL-LITE	ESL SERIES	12ESL362-LG	WALL	4	2	LED	12	120	7' AFF	TILT HEADS @ 45°	2	8	16
EL4	BATTERY PACK EMERGENCY LIGHT	EMERGL-LITE	ESL SERIES	12ESL1002-LG	WALL	4	2	LED	12	120	7' AFF	TILT HEADS @ 45°	1	8	8
													TOTAL LOAD (WATTS)	165	

INTERIOR LIGHT FIXTURE SCHEDULE											
DETAIL	DESCRIPTION	MANUFACTURER	MODEL	CAT. NO.	MNTG.	WATTS	TYPE	VOLTS	HEIGHT	GENERAL COMMENTS	QUANTITY
L1	12" CEILING LIGHT FIXTURE	CANARM	CLIP FLUSH MOUNT	IFM1612BPT	SURFACE	18	LED	120	CEILING	c/w PHILIPS 9W A-SHAPE LED BULB (x2)	2
L2	48" LED SHOP LIGHT	CANARM	LED WRAP LIGHT	LW48A40	SURFACE	40	LED	120	CEILING	CONTROLLED BY SWITCH	3
L3	OVERHEAD LIGHT	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	SURFACE		MATCH EXISTING		CEILING	WIRED TO OTHER CEILING LIGHTS	2



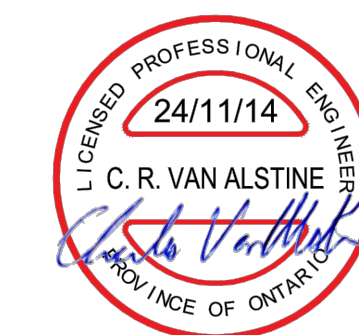
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ELECTRICAL SYMBOL LEGEND (NOT ALL SYMBOLS MAY BE USED.)	
SYMBOL	DESCRIPTION
	DUPLIX WALL RECEPTACLE (GFI = GROUND FAULT) (AFCI = ARC-FAULT CIRCUIT INTERLUPTER) (WP = WEATHERPROOF) (IG = ISOLATED GROUND) (TP = TAMPER PROOF)
	DIRECT (HARD WIRED) CONNECTION q/w DISCONNECT UNLESS BUILT-IN
	THERMOSTAT
	ERV CONTROLLER
	HEAT DETECTOR
	SMOKE DETECTOR
	FIRE HORN
	PULL STATION
	DISABLED ACCESS DOOR BUTTON
	DURESS / EMERGENCY CALL BUTTON
	EMERGENCY CALL STROBE & SIREN
	ELECTRICAL PANEL
	SWITCH (M = MOTION SENSOR) (D = DIMMING) (3 = THREE-WAY)
	DISCONNECT SWITCH



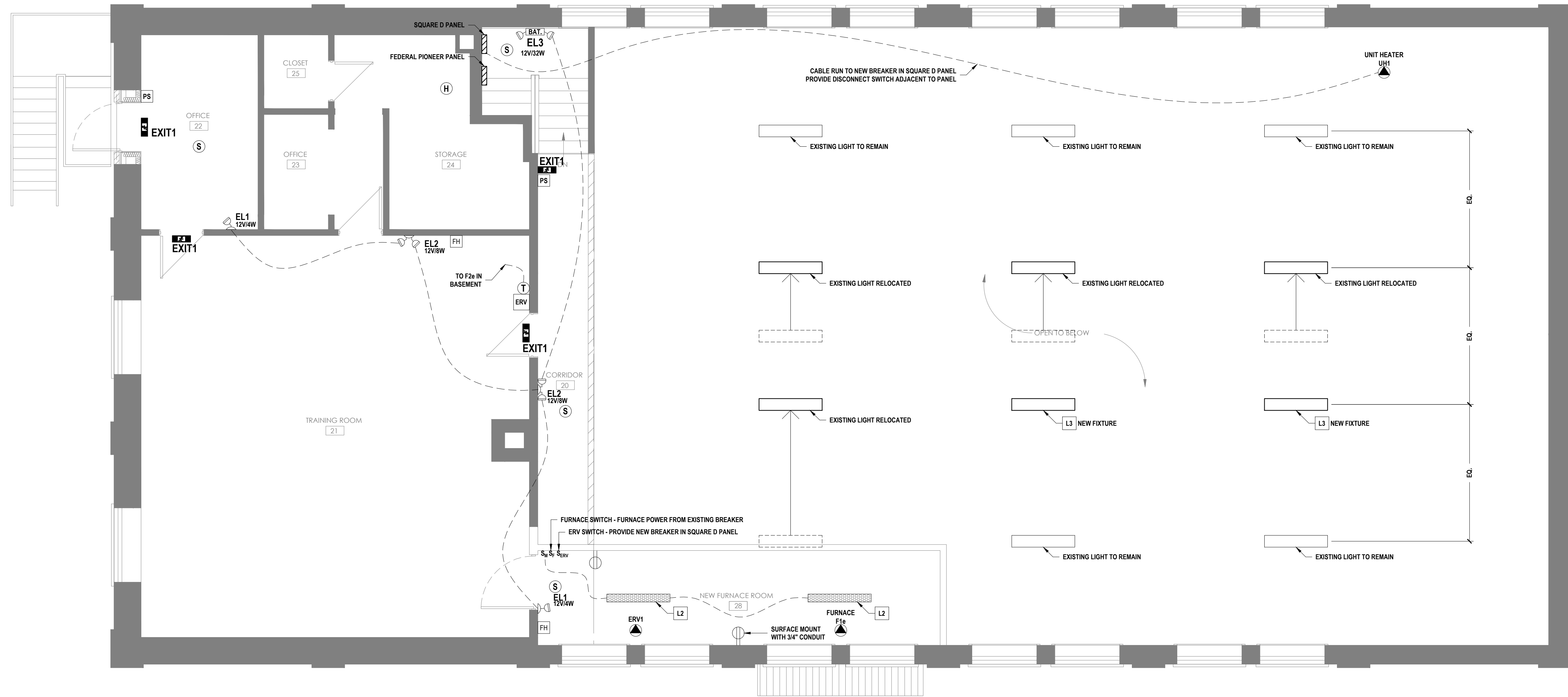
NOTES:  
ALL EMERGENCY LIGHTING TO BE MOUNTED AT 7' ABOVE FINISHED FLOOR.

1 GROUND FLOOR ELECTRICAL PLAN  
E2 SCALE: 1/4" = 1'-0"



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REV.	DATE	DESCRIPTION	INIT.	APP'D.	C.VAN ALSTINE	DATE	2024-11-14	FILE NO.	241961 E.dwg	PROJECT NO.	241961	SHEET	10 OF 13	DWG. NO.	E2	1

ELECTRICAL SYMBOL LEGEND (NOT ALL SYMBOLS MAY BE USED.)	
SYMBOL	DESCRIPTION
	DUPLIX WALL RECEPTACLE (GFI = GROUND FAULT) (AFCI = ARC-FAULT CIRCUIT INTERRUPTER) (WP = WEATHERPROOF) (IG = ISOLATED GROUND) (TP = TAMPER PROOF)
	DIRECT (HARD WIRED) CONNECTION c/w DISCONNECT UNLESS BUILT-IN
	THERMOSTAT
	ERV CONTROLLER
	HEAT DETECTOR
	SMOKE DETECTOR
	FIRE HORN
	PULL STATION
	DISABLED ACCESS DOOR BUTTON
	DURESS / EMERGENCY CALL BUTTON
	EMERGENCY CALL STROBE & SIREN
	ELECTRICAL PANEL
	SWITCH (M = MOTION SENSOR) (D = DIMMING) (3 = THREE-WAY)
	DISCONNECT SWITCH



NOTES:  
1. ASSEMBLY ROOM LIGHTING IS BEING RECONFIGURED TO ACCOMMODATE NEW CENTRAL HVAC DUCTING.

1 SECOND FLOOR ELECTRICAL PLAN  
E3 SCALE: 1/4" = 1'-0"



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**PLUMBING SPECIFICATION:**

REFER ALSO TO GENERAL SPECIFICATIONS ON SHEET A0.

INSTALLATION OF PLUMBING SERVICES AND SYSTEMS MUST CONFORM TO ONTARIO BUILDING CODE (OBC) AND APPLICABLE BY-LAWS.

ALL MATERIALS (PIPING AND ASSOCIATED COMPONENTS, ADHESIVES, INSULATIONS) SHALL BE LISTED FOR THE APPLICATION AND CONFORM TO OBC AND LOCAL FIRE SAFETY REQUIREMENTS FOR SMOKE AND FLAME DEVELOPMENT IN THE INSTALLED ORIENTATION.

ALL SYSTEMS MUST BE TESTED AND INSPECTED (BY AHJ) BEFORE INSULATION, BACKFILL, OR CONCEALMENT.

OPENINGS MADE IN FIRE-RATED ASSEMBLIES TO ACCOMMODATE INSTALLATION MUST BE REINSTATED, FIRE-STOPPED, OR FITTED WITH A LISTED ENCLOSURE.

PROVIDE HANGERS, INSERTS, SLEEVES AND SUPPORTS AS REQUIRED/PREScribed BY APPLICABLE CODES.

WHEREVER ANY BASE BUILDING EQUIPMENT REQUIRES ACCESSIBILITY, MAINTENANCE OR ADJUSTMENT, PROVIDE ACCESS DOORS APPROVED BY ARCHITECT AND OWNER.

**PLUMBING SCOPE OF WORK:**

SUPPLY AND INSTALL ALL MATERIALS, EQUIPMENT AND LABOUR TO INSTALL, CONSTRUCT AND COMMISSION THE FOLLOWING FULLY FUNCTIONING SYSTEMS AS DESCRIBED ON DRAWINGS.

1. PROVIDE ALL FIXTURES WITHIN THE BARRIER-FREE WASHROOM (ROOM 29)
2. ALL DOMESTIC COLD WATER PIPING FOR NEW BARRIER-FREE WASHROOM (ROOM 29)
3. ALL DOMESTIC HOT WATER PIPING FOR NEW BARRIER-FREE WASHROOM (ROOM 29)
4. ALL SANITARY DRAINS AND VENTS FOR NEW BARRIER-FREE WASHROOM (ROOM 29)
5. PIPE INSULATION
6. TRAP SEAL PRIMERS
7. FIRE STOPPING AT PENETRATIONS OF FIRE SEPARATIONS

ALL EXCAVATING, BACKFILLING, AND REINSTATEMENT OF CONCRETE RELATED TO THE PLUMBING WORK IS THE RESPONSIBILITY OF CONTRACTOR.

PIPE INSULATION:  
EXPOSED HOT PIPING IN ACCESSIBLE AREAS MUST BE INSULATED TO PROTECT AGAINST BURNS FROM INCIDENTAL CONTACT.

FIXTURES:  
ALL PLUMBING FIXTURES TO BE WHITE, FREE FROM BLEMISHES, WITH STRAIGHT SURFACES AND FULL GUARANTEE AGAINST WARPING, CRACKING, DISCOLOURING, ETC.

ALL EXPOSED PIPING, VALVES, TRAPS, FITTINGS, ETC. SHALL BE HEAVILY CHROME PLATED BRASS, UNLESS OTHERWISE NOTED.

DOMESTIC PIPES:  
POTABLE WATER TUBING:  
LEAD FREE CROSS-LINKED POLYETHYLENE TUBING USED FOR POTABLE WATER APPLICATIONS WITHOUT AN OXYGEN BARRIER.

- MAXIMUM WORKING PRESSURE:
- 160PSI (11 BAR) @ 73.4°F (23°C)
  - 100PSI (6.8 BAR) @ 180°F (82°C)
  - 80PSI (5.5 BAR) @ 200°F (93°C)

SYSTEM SHALL BE PLUMBED USING CROSS-LINKED POLYETHYLENE PIPE, AND ALL JOINTS SHALL BE MADE USING BRASS CRIMP RING AND/OR POLY-ALLOY CRIMP RING FITTINGS USING EITHER COPPER CRIMP RING OR STAINLESS STEEL CLAMPS. CRIMPING METHODS SHALL BE AS OUTLINED IN MANUFACTURERS INSTALLATION GUIDELINES.

PIPES 1" AND GREATER DIAMETER TO BE TYPE-L COPPER WITH SOLDERED JOINTS.

- APPROVALS:
- MANUFACTURED IN ACCORDANCE WITH AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM INTERNATIONAL) F876 AND F877 TO SDR-9 DIMENSIONAL STANDARDS
  - LISTED BY THE NSF INTERNATIONAL TO NSF STANDARDS 41 AND 61 FOR USE IN POTABLE WATER SYSTEMS
  - LISTED BY NSF INTERNATIONAL TO BE IN COMPLIANT TO THE UNIFORM PLUMBING CODE
  - LABELLED B137.5 WHICH INDICATES THAT IT IS COMPLIANT TO THE CSA STANDARDS B137.5
  - ASTM E84 AND CANULC S102.2 SMOKE DEVELOPED AND FLAME SPREAD CLASSIFICATION
  - FIRE RESISTANCE PER CANULC S101 AND ASTM E119-08

INSTALLATION:  
• PLASTIC WATER PIPE IS SUPPORTED AT INTERVALS NOT TO EXCEED 1M.  
• WALL STUBS FOR VALVE AND FIXTURE CONNECTIONS SHALL BE COPPER TUBE WITH MOUNTING PLATE.  
• INDIVIDUAL FIXTURES MAY BE SUPPLIED BY A 1/2" PEX TUBE.  
• FOLLOW OBC PLUMBING CODE GUIDANCE RESTRICTING USE OF PLASTIC PIPE NEAR THE WATER HEATER, IN PLENUM SPACES, AND FIRE STOPPING AT PENETRATIONS OF FIRE-RATED ASSEMBLIES.  
• USE OF PLASTIC PIPING DOES NOT REMOVE THE REQUIREMENT FOR INSULATION FOR ENERGY CONSERVATION AND TO MITIGATE CONDENSATION.

TYPE "K" COPPER FOR BURIED PIPE.

TYPE "L" COPPER WITH CAST OR WROUGHT COPPER SOLDER-JOINT PRESSURE FITTINGS FOR INSIDE AND EXPOSED PIPE, WITH SUPPORT EVERY 1.3M (5'-0") MAXIMUM.

- DOMESTIC WATER PIPE SIZES BASED ON:
- INCOMING WATER SERVICE PRESSURE: 311 TO 413 kPa (46 TO 60 PSI)
  - MAX. ALLOWABLE LENGTH: 61 M (200')

COVER ALL WATER RE-CIRCULATION PIPING AND DOMESTIC MAINS WITH 1/2" ON COLD & 1" ON HOT CLOSED CELL ELASTOMERIC INSULATION CONFORMING TO CANULC S102. EXPOSED HOT PIPING INCLUDING DRAINS IN ACCESSIBLE AREAS MUST BE INSULATED TO PROTECT AGAINST BURNS FROM INCIDENTAL CONTACT.

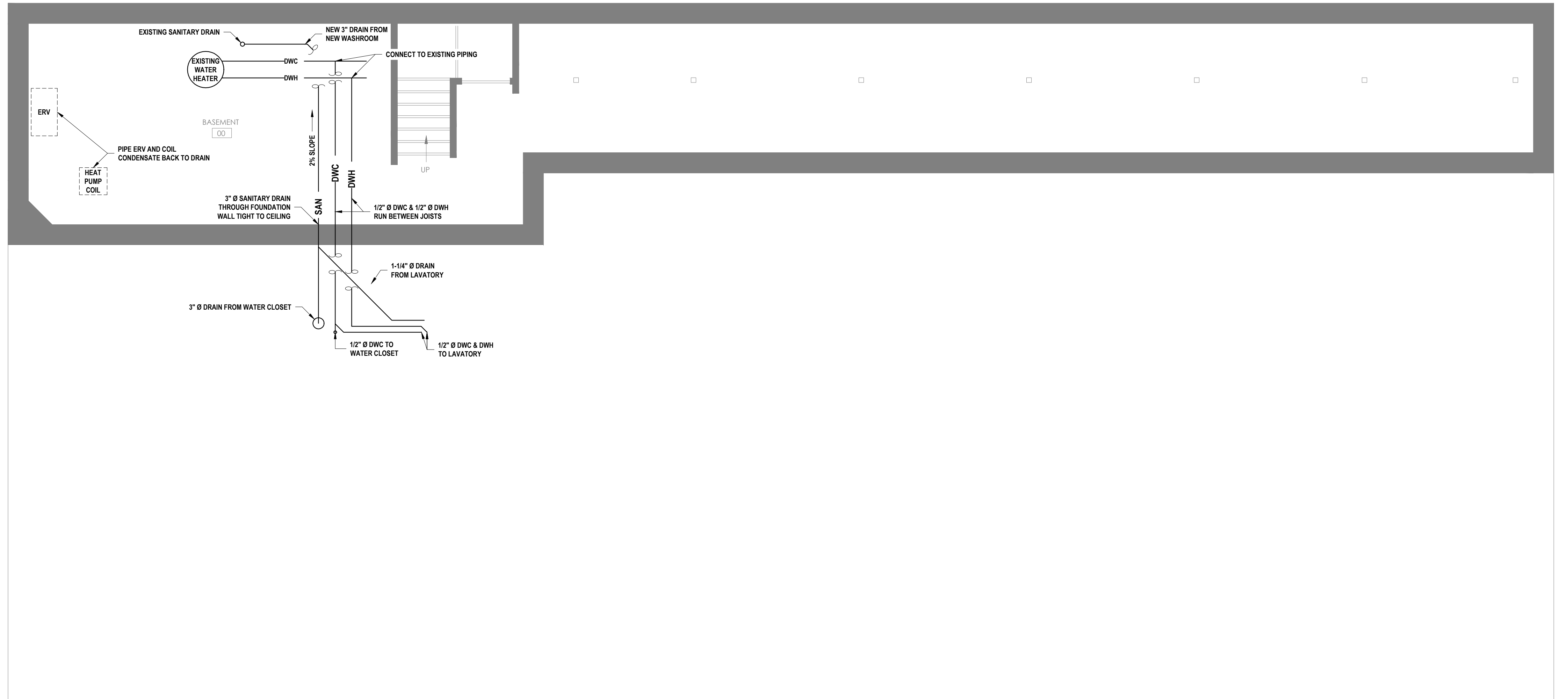
PROVISION FOR PROTECTION FROM WATER HAMMER AS PER OBC SECTION 7.6.1.14.

DRAIN PIPES:  
INSTALL SDR 35 PLASTIC GASKET BELL SEWER PIPE UNDER CONCRETE SLAB.

DRAIN PIPES SHALL BE ABS-DWV PIPE. USE COPPER OR RATED PIPE IN PLENUM SPACES IN SIZES INDICATED ON DRAWINGS.

VENTING:  
DRAINAGE SYSTEM VENTING IS TO CONFORM TO SECTION 7.5 OF OBC & IS NOT SHOWN.

VENT PIPES SHALL BE ABS-DWV PIPE. USE COPPER OR RATED PIPE IN PLENUM SPACES.



**1 BASEMENT PLUMBING PLAN**  
P1 SCALE: 1/4" = 1'-0"

**PLUMBING FIXTURE SCHEDULE - FOR CONTINUATION (SEE SHEET M2)**

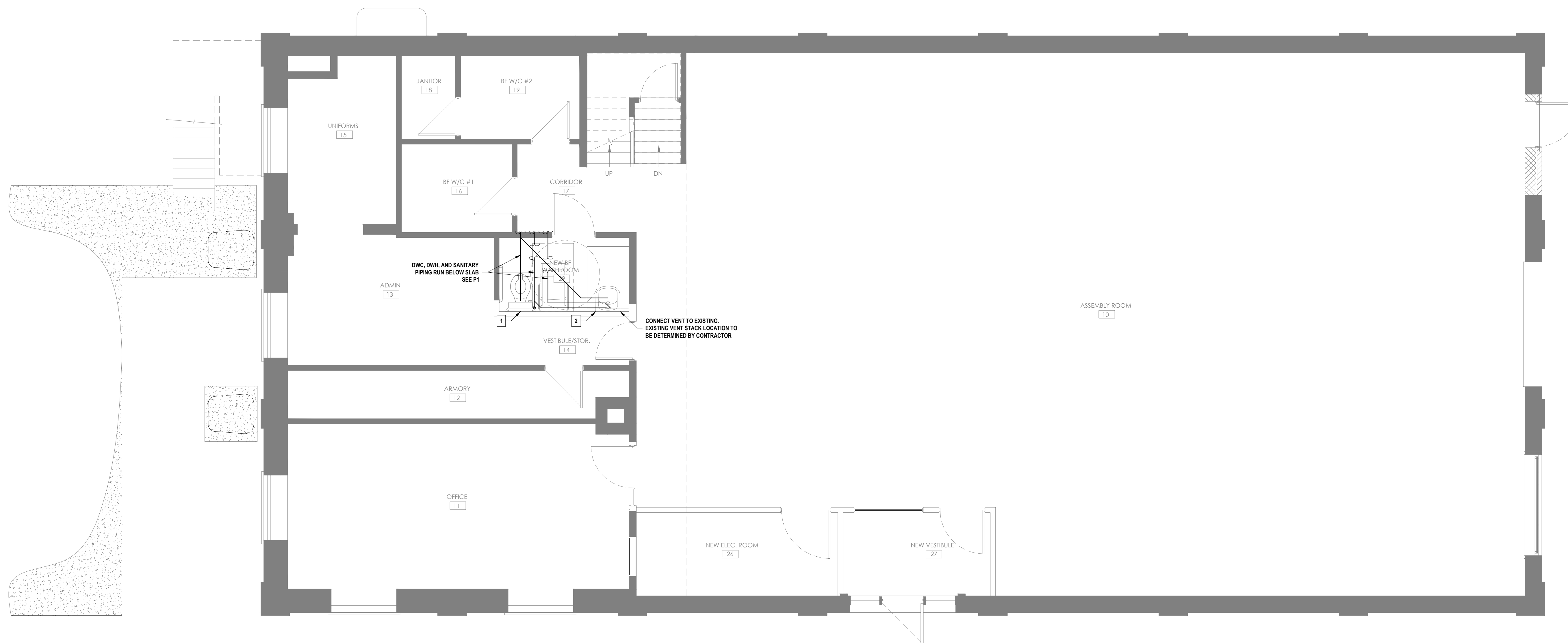
NOTE: MANUFACTURER NAMES AND MODEL NUMBERS ESTABLISH STANDARD OF ACCEPTANCE. EQUIVALENT PRODUCTS OF ALTERNATE MANUFACTURE ARE ACCEPTABLE, SUBJECT TO SHOP DRAWING REVIEW BY CONSULTANT.								DESCRIPTION
DETAIL	QTY	FIXTURE	TRAP	WASTE SIZE	VENT SIZE	C.W.	H.W.	
1	1	WATER CLOSET	INTERNAL	3"	2"	12"	N/A	AMERICAN STANDARD "CADET ELONGATED 16" (406mm.) HIGH #AF-2216.143F "AQUA-LITE" BARRIER FREE TOILET. VITREOUS CHINA ELONGATED SIPHON JET ACTION BOWL AND LINED TANK COMPLETE. 2.9 GAL. (13L) FLUSH WITH LARGE CAST RIB FOR CHINA-TO-CHINA TANK ASSEMBLY AND SPLASH BLOCK. CONCEALED TRAPWAY AND WITH FLANGE BOLTS, BOLT CAPS, FLOOR FLANGE AND GASKET. TECH #K7315 SUPPLY C.P. RIGID HORIZONTAL WITH ANGLE STOP, ESCUTCHEON AND FLEXIBLE RISER, CENTOCO #220STCC SEAT, ELONGATED HEAVY DUTY SOLID PLASTIC OPEN FRONT WITH COVER, CHECK HINGES AND CHROMATED STEEL POSTS, WASHERS AND NUTS FOR PUBLIC USE. (INSTALL IN ACCORDANCE WITH OBC SECTION 3.8)
2	1	BARRIER FREE LAVATORY	1 1/4"	1 1/4"	1 1/4"	12"	12"	TOTO PROMINENCE #L242.4G, 26" x 21 1/2" WALL MOUNTED LAVATORY SINK, VITREOUS CHINA WITH OVERFLOW DRAIN, 4" CENTER SET, COLOUR: COLONIAL WHITE

**WASHROOM ACCESSORIES (INSTALL IN ACCORDANCE TO LATEST VERSION OF OBC, SECTION 3.8)**

DETAIL	QTY	DESCRIPTION
A		FROST CODE 622 SURFACE MOUNT NAPKIN DISPOSAL. TYPE 304 STAINLESS STEEL CONSTRUCTION WITH A NO. 4 BRUSHED FINISH.
B		FROST CODE 303-3 WALL MOUNTED WASTE RECEPTACLE. STAINLESS STEEL TYPE 304 No. 4 FINISH WITH LINER. CAPACITY 50 Ltrs. (11 Gal.)
C		FROST CODE 708A TANK TYPE LIQUID SOAP DISPENSER VERTICAL MOUNTING. 20 Ga. STAINLESS STEEL BODY WITH LUCITE SOAP LEVEL INDICATOR WINDOW. CAPACITY 1.2 Kg. (40 oz.) ALL LOCKS ARE TO BE KEYPED ALIKE.
D		FROST CODE 165 MULTI-ROLL TOILET TISSUE DISPENSER WITH TUMBLER LOCK. TYPE 304 STAINLESS STEEL CONSTRUCTION WITH A NO. 4 BRUSHED FINISH. ALL LOCKS ARE TO BE KEYPED ALIKE.
E		FROST CODE 941-1838FT VANDAL RESISTANT FIXED TILT MIRROR 458mm.(18")x914mm.(36") 24ga. STAINLESS STEEL FRAME. FULL GALVANIZED BACK PANEL. 4mm. GLASS WITH SHOCK RESISTANT PRIMARY BACK.
F		FROST CODE 1001 12" (300 mm.) STAINLESS STEEL GRAB BAR 1 1/4"Ø (38 mm.) IN A BRUSHED AND PEENED FINISH. STAMPED FLANGE IS 12 GAUGE STAINLESS WITH A FULL 360 DEGREE BEAD WELD TO THE 18 GAUGE STAINLESS TUBING. CONCEALED MOUNTING.
G		FROST CODE 1001 24" (600 mm.) STAINLESS STEEL GRAB BAR 1 1/4"Ø (38 mm.) IN A BRUSHED AND PEENED FINISH. STAMPED FLANGE IS 12 GAUGE STAINLESS WITH A FULL 360 DEGREE BEAD WELD TO THE 18 GAUGE STAINLESS TUBING. CONCEALED MOUNTING.
H		FROST CODE 1003 30" (760 mm.) x 30" (760 MM.) STAINLESS STEEL GRAB BAR 1 1/4"Ø (38 mm.) IN A BRUSHED AND PEENED FINISH. STAMPED FLANGE IS 12 GAUGE STAINLESS WITH A FULL 360 DEGREE BEAD WELD TO THE 18 GAUGE STAINLESS TUBING. CONCEALED MOUNTING.
I		FROST CODE 1150 ALL STAINLESS STEEL TYPE 304 #4 FINISH. SPRING LOADED HOOK WILL SUPPORT A MAX. WEIGHT OF 11 Kg. (25 Lbs.)
J		FROST CODE 1125 FLIP DOWN HIGH DENSITY POLYETHYLENE BABY CHANGING STATION. STATIC LOAD CAPACITY 250 Lbs. c/w CONCEALED PNEUMATIC GAS SPRING MECH., BUILT IN LINER DISPENSER AND DIAPER BAG HOOKS.
K		MAX-ABILITY FOLDING ADULT CHANGE TABLE MODEL # L12403.190

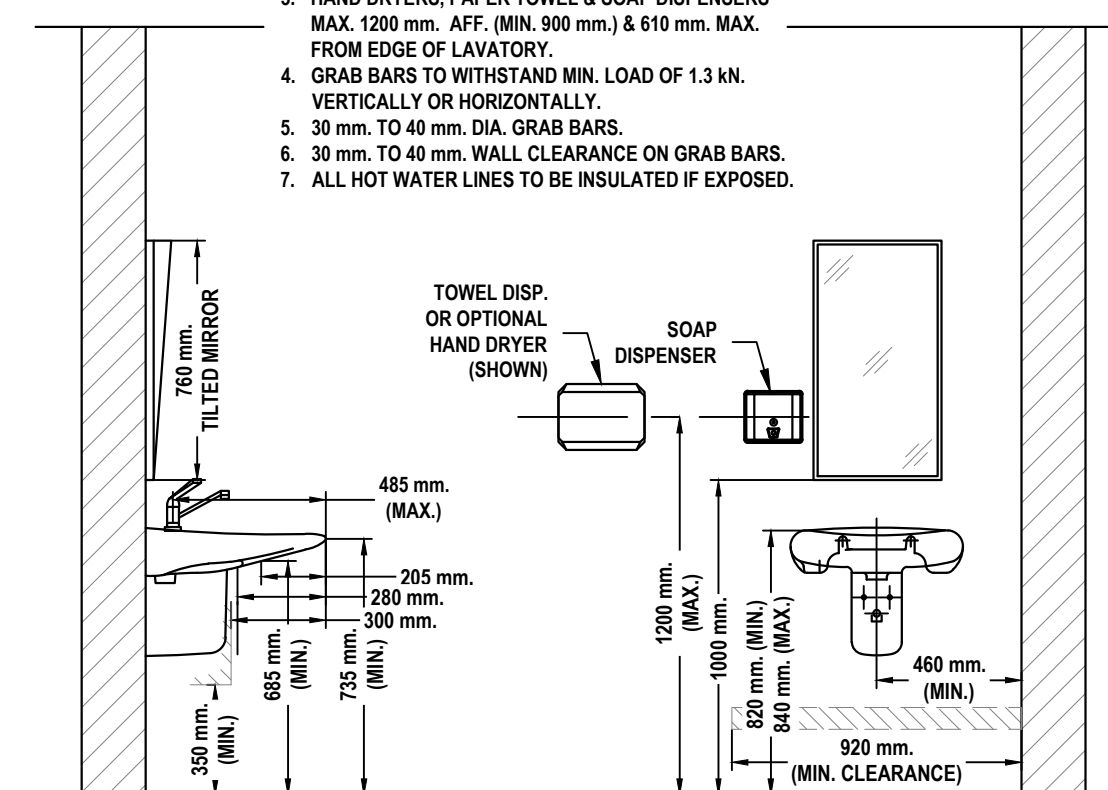
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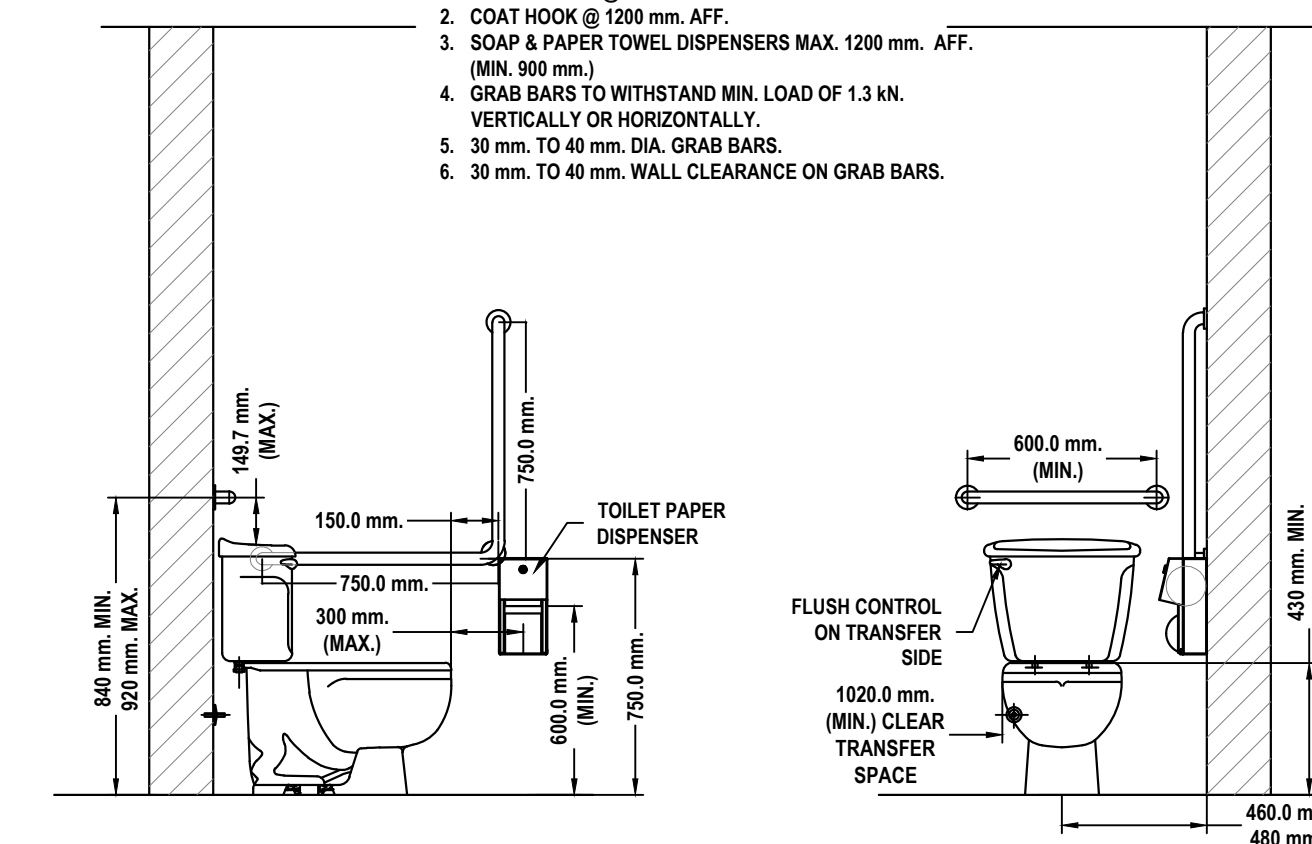
1 GROUND FLOOR PLUMBING PLAN  
SCALE: 1/4" = 1'-0"

- NOTES: PER OBC, 2012 SECTION 3.8
1. LIGHT SWITCH @ 1200 mm. AFF.
  2. COAT HOOK @ 1200 mm. AFF.
  3. HAND DRYERS, PAPER TOWEL & SOAP DISPENSERS MAX. 1200 mm. AFF. (MIN. 900 mm.) & 610 mm. MAX. FROM EDGE OF LAVATORY.
  4. GRAB BARS TO WITHSTAND MIN. LOAD OF 1.3 kN. VERTICALLY OR HORIZONTALLY.
  5. 30 mm. TO 40 mm. DIA. GRAB BARS.
  6. 30 mm. TO 40 mm. WALL CLEARANCE ON GRAB BARS.
  7. ALL HOT WATER LINES TO BE INSULATED IF EXPOSED.

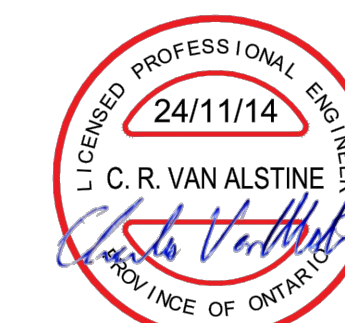


2 BARRIER-FREE LAVATORY  
SCALE: 1/2" = 1'-0"

- NOTES: PER OBC, 2012 SECTION 3.8
1. LIGHT SWITCH @ 1200 mm. AFF.
  2. COAT HOOK @ 1200 mm. AFF. (MIN. 900 mm.)
  3. SOAP & PAPER TOWEL DISPENSERS MAX. 1200 mm. AFF. (MIN. 900 mm.)
  4. GRAB BARS TO WITHSTAND MIN. LOAD OF 1.3 kN. VERTICALLY OR HORIZONTALLY.
  5. 30 mm. TO 40 mm. DIA. GRAB BARS.
  6. 30 mm. TO 40 mm. WALL CLEARANCE ON GRAB BARS.



3 BARRIER-FREE WATER CLOSET  
SCALE: 1/2" = 1'-0"



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FILE NO.	241961 P.dwg	SHEET	13 OF 13
SCALE	AS NOTED	CONTINUED ON SHEET NO.	

TITLE	Pvt. BLAKE WILLIAMSON MEMORIAL HALL CHANGE OF USE GROUND FLOOR PLUMBING PLAN
DWG. No.	P2
	1