THE CORPORATION OF THE TOWNSHIP OF CHISHOLM

2847 CHISWICK LINE, POWASSAN, ONTARIO

PUBLIC WORKS GARAGE PHASE 1 ADDITION

2373 CHISWICK LINE, POWASSAN, ONTARIO

CONTRACT No. CH-2202-03

PROJECT No: 20-53 JULY 2022

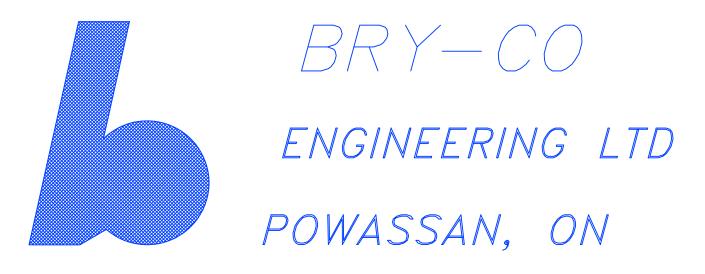


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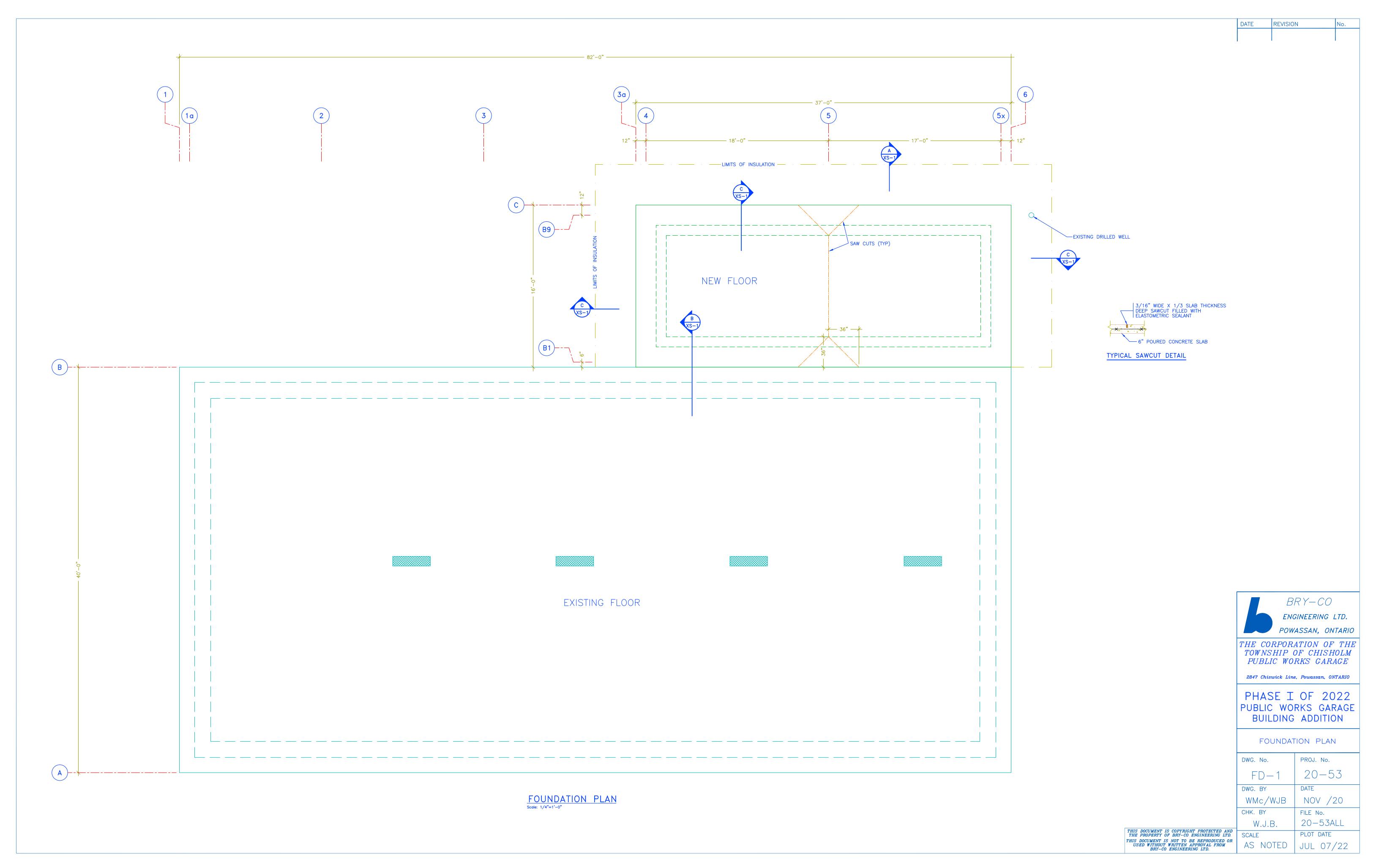
M101 MECHANICAL HEATING & VENTILATION, REMOVALS & UPGRADES FLOOR PLAN

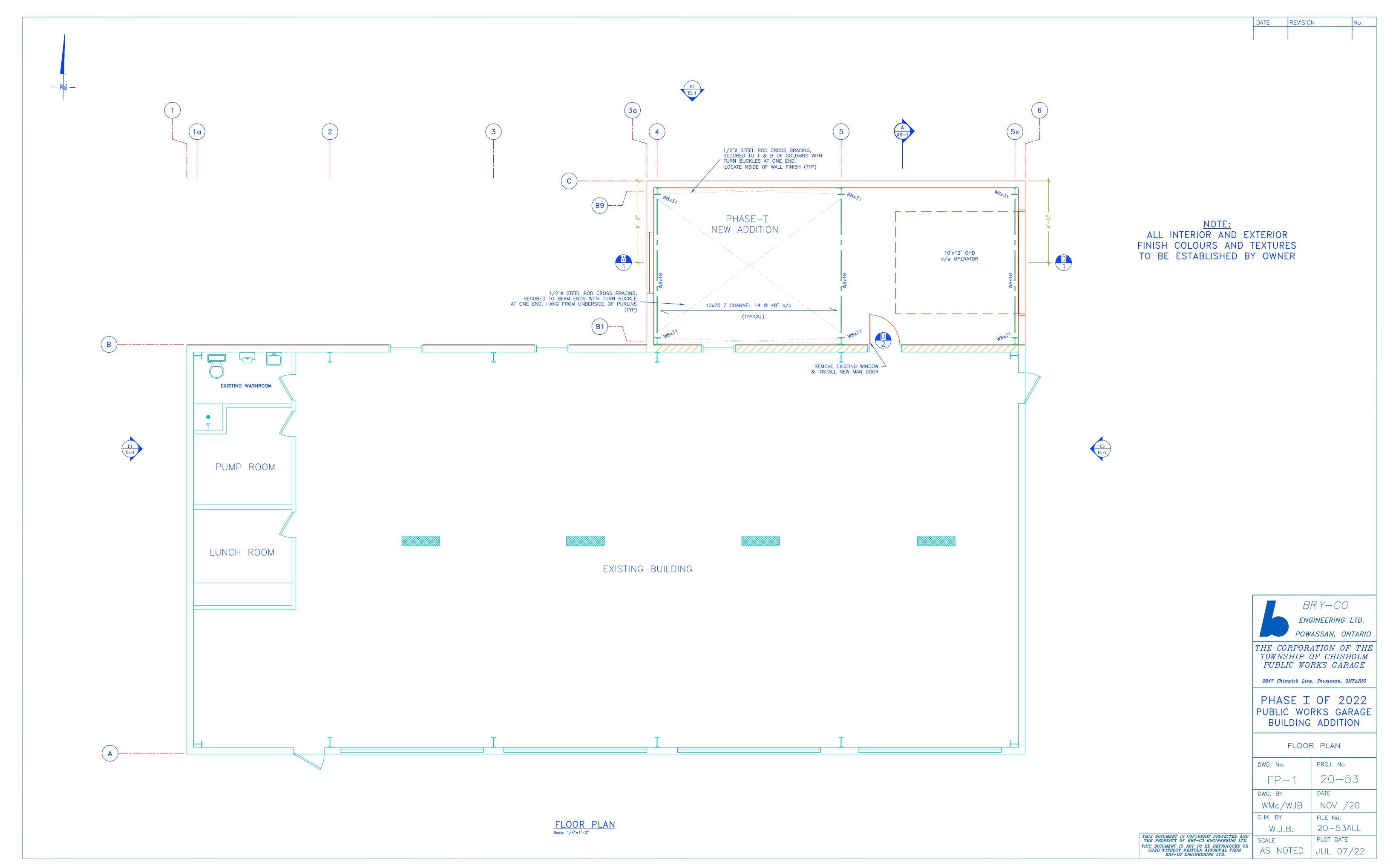
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20-53ALL

PLOT DATE

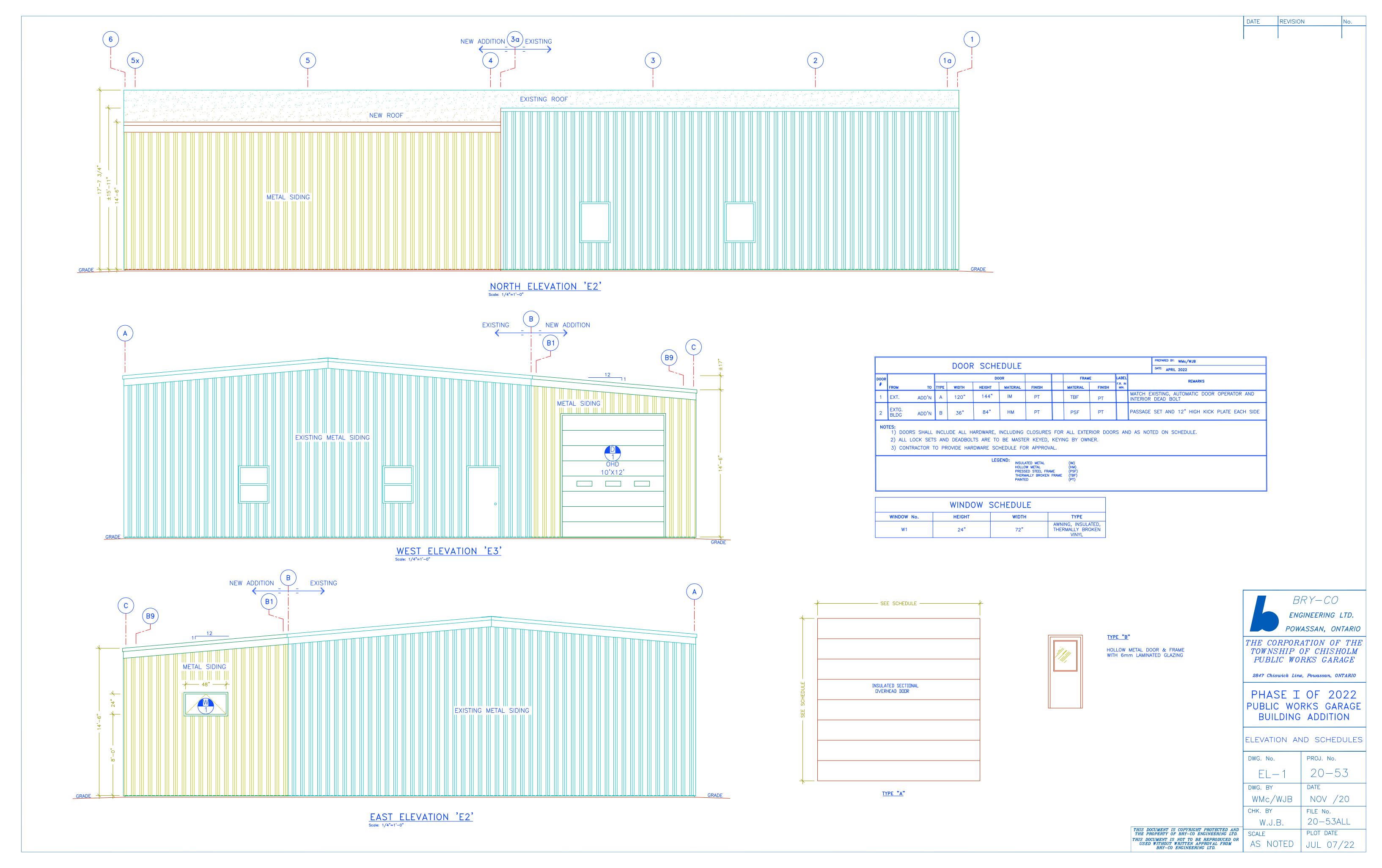
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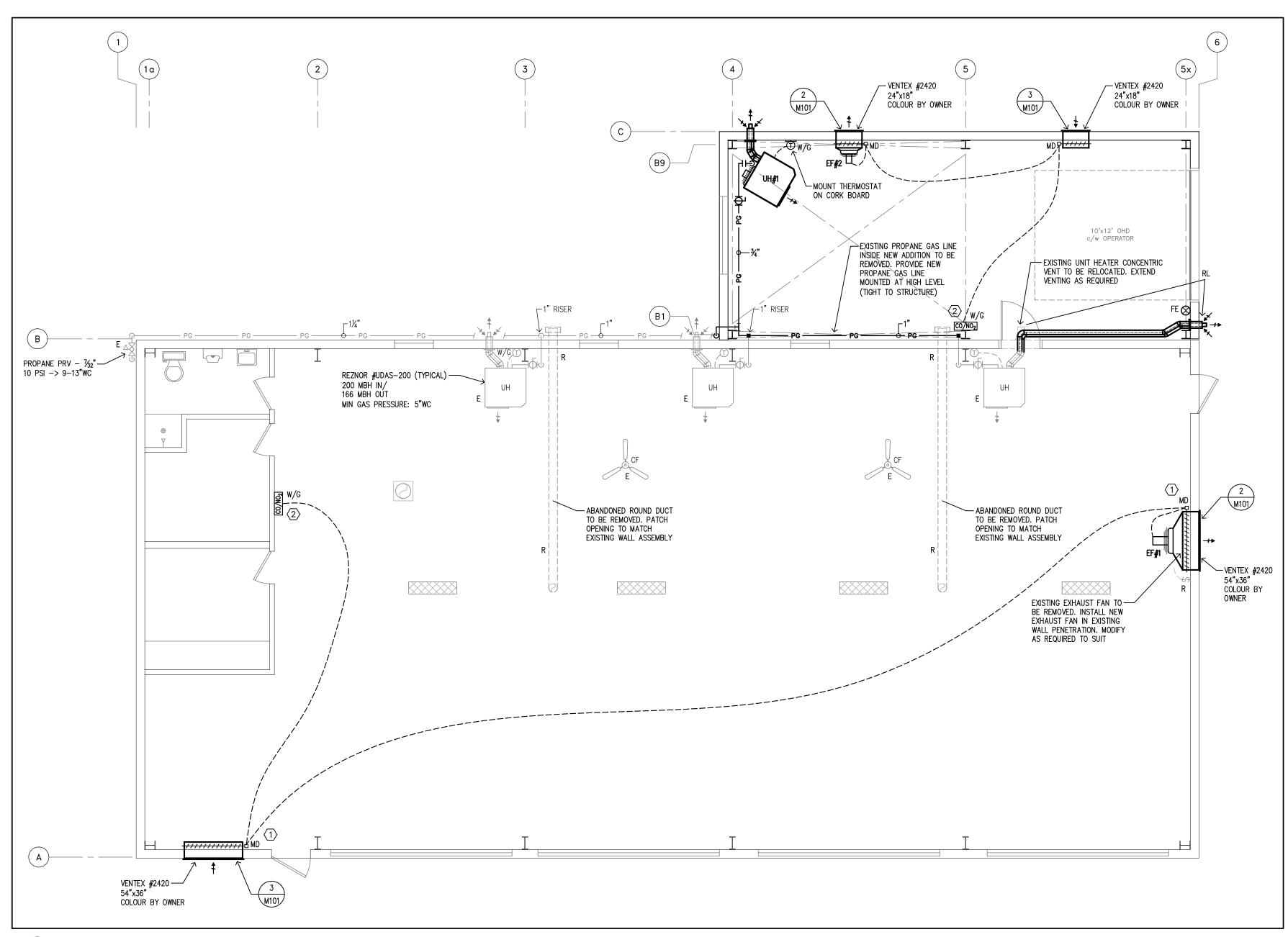
W.J.B.

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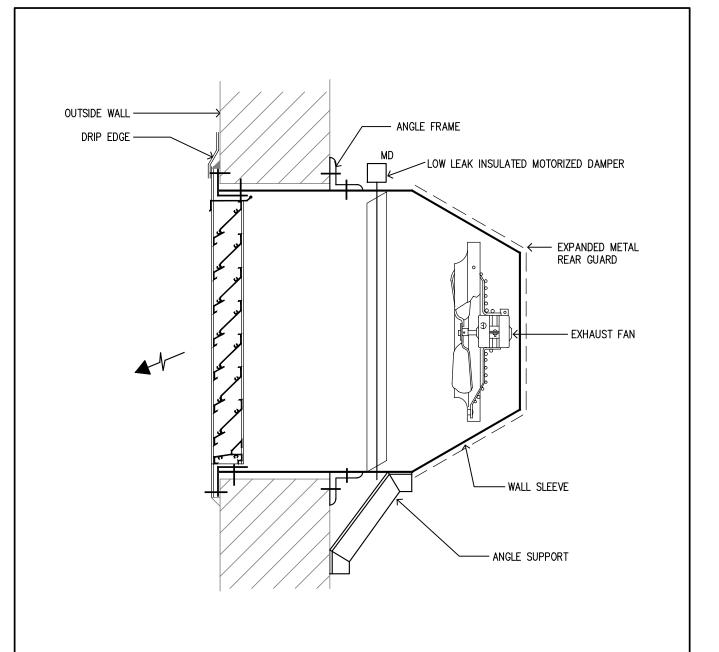
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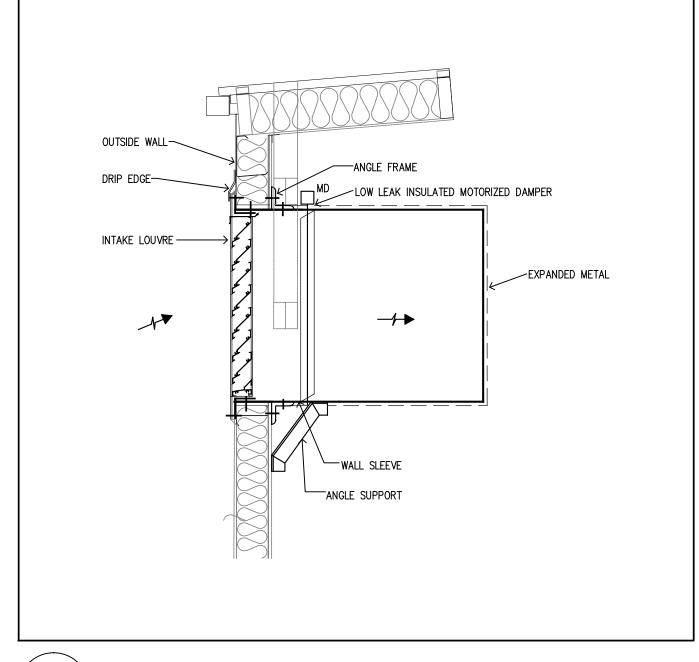
 ROOF MEMBRANE
 2" [R-10] RIGID INSULATION (SM ROOFMATE OR EQUIVALENT).
 VICWEST RD938 ROOF DECKING 10x25Z14 Z-BAR'S @ 48" o/c. c/w 2x4 ON THE FLAT SECURED TO THE TOP FLANGE R-50 {8"} BLOWN IN INSULATION - 16'-0" --- TIE NEW ROOF INTO EXISTING USING THE
— SAME SIKA SARNAFIL PVC ROOFING SYSTEM
AND INSULATION ALL READY IN PLACE. AND INSULATION ALL READY IN PLACE. 2"x3" END BLOCK — 10ES13 — 3/4"ø THROUGH BOLT
[c/w 4"x?"x8" STEEL SPACER BLOCK] —/
EACH SIDE OF WEB
TO TIE NEW STEEL TO EXISTING MATCH EXISTING METAL SIDING
MOISTURE BARRIER 2"x2"x2" HORZ Z-BARS @ 24"oc - REMOVE PURLINS
AND EXISTING WALL SYSTEM R-10 RIGID 'SM' INSULATION - W8x18 (W22x27) - C/W 1/2" T&B END PLATES 6"-20Ga MS @ 16"oc c/w BLOCKING @ 48"oc -R-20 BATT INSULATION 6Mil VB 1x4 HORZ WOOD STRAPPING @ 24"oc METAL LINER PANEL NEW BUILDING EXISTING BUILDING W8x31 (W200x46) c/w 1/2" T&B END PLATES W8x31 (W200x46) c/w 1/2" T&B END PLATES -REMOVE RAKERS 2% SLOPE 6" THICK 32MPa CONCRETE FLOOR SLAB WITH ONE COAT HARDENED AND TWO COATS SEALER
FLOOR FINISH TO BE WITH A STEEL TROWEL 2"-'SM' INSULATION EXTENDING OUT 48" FROM SLAB PERIMETER ASPHALT IMPREGNATED FIBERBOARD _6x6"- 6/6 WWF 2 × × 4×/4 × 4× × × × × BRY-CO 2" RIGID 'SM' INSULATION EXISTING HAUNCH 18"WD x 24"DP ENGINEERING LTD. 6" GRANULAR 'A' OVER GEANULAR 'B' TYPE 2
COMPACTED TO 100%
PROCTOR DENSITY POWASSAN, ONTARIO THE CORPORATION OF THE TOWNSHIP OF CHISHOLM $\frac{\text{SECTION}}{\text{Scale: } 1/2" = 1'-0"} \stackrel{\text{C}}{\text{XS-1}}$ SECTION B
Scale: 1/2" = 1'-0" XS-1 PUBLIC WORKS GARAGE 2847 Chiswick Line, Powassan, ONTARIO PHASE I OF 2022 PUBLIC WORKS GARAGE BUILDING ADDITION SECTIONS AND DETAILS DWG. No. PROJ. No. DWG. BY DATE NOV /20 WMc/WJB CHK. BY FILE No.





1 Mechanical - Heating & Ventilation - Removals & Upgrades - Floor Plan M101 3/16" = 1'-0"





2 Exhaust Fan Mounting Detail (EF#1, EF#2) M101 N.T.S.

\ Intake Louvre Detail M101 N.T.S.

MECHANICAL LEGEND

PG	PROPANE GAS LINE
G C	PIPE DROP
\odot	THERMOSTAT
CO/NO ₂	CO/NO ₂ CONTROLLER
Ф	BALL VALVE
፟	PRESSURE REDUCING VALVE
П	UNION
■ _{MD}	MOTORIZED DAMPER
—	INTAKE LOUVER/VENT
─	EXHAUST LOUVER/VENT
⊗FE	FIRE EXTINGUISHER
W/G	DEVICE WITH GUARD AS NOTED
R	EXISTING DEVICE TO BE REMOVED
$RL \longrightarrow$	EXISTING DEVICE TO BE RELOCATED
E	EXISTING DEVICE TO REMAIN

MECHANICAL GENERAL NOTES:

- 1. FIRE STOP ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. 2. REMOVE ALL UNUSED EQUIPMENT, PIPING, DUCTWORK, ETC. CUT CAP AND
- MAKE SAFE.
- 3. VERIFY ALL POINTS OF CONNECTION TO EXISTING SERVICES PRIOR TO
- 4. PROVIDE CLEARANCE TO EQUIPMENT AS PER MANUFACTURERS RECOMMENDATIONS.
- 5. CO & NO2 CONTROLLERS TO BE VERIFIED. SUBMIT REPORT.
- 6. NEW THERMOSTATS, TEMPERATURE SENSORS, OPERATOR INTERFACE CONTROLLERS, ETC. TO BE INSTALLED AT MAXIMUM HEIGHT OF 47" (1200mm) ABOVE FINISHED FLOOR. COORDINATE ON SITE WITH ALL OTHER TRADES PRIOR TO ROUGH IN.

MECHANICAL DRAWING NOTES:

- 1 WIRE CORRESPONDING CO/NO2 SENSOR TO ASSOCIATED MOTORIZED DAMPER C/W END SWITCH. FROM END SWITCH TO CORRESPONDING EXHAUST FAN. SYSTEM TO BE VERIFIED AND CERTIFIED UPON COMPLETION, SUBMIT
- $\langle 2 \rangle$ CO/NO $_2$ CONTROLLER C/W CO AND NO $_2$ SENSORS QEL Q6 CO/NO $_2$ CONTROLLER, Q6-CO-250-0 (CO SENSOR), Q6-NO2-10P-0 (NO $_2$ SENSOR) C/W 6 HOUR OVERRIDE TIMER

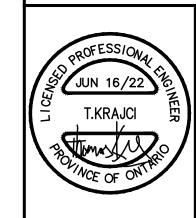
1. ISSUED FOR TENDER	JUNE 16/22
revision	date

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project

2373 CHISWICK LINE PUBLIC WORKS GARAGE

CHISHOLM

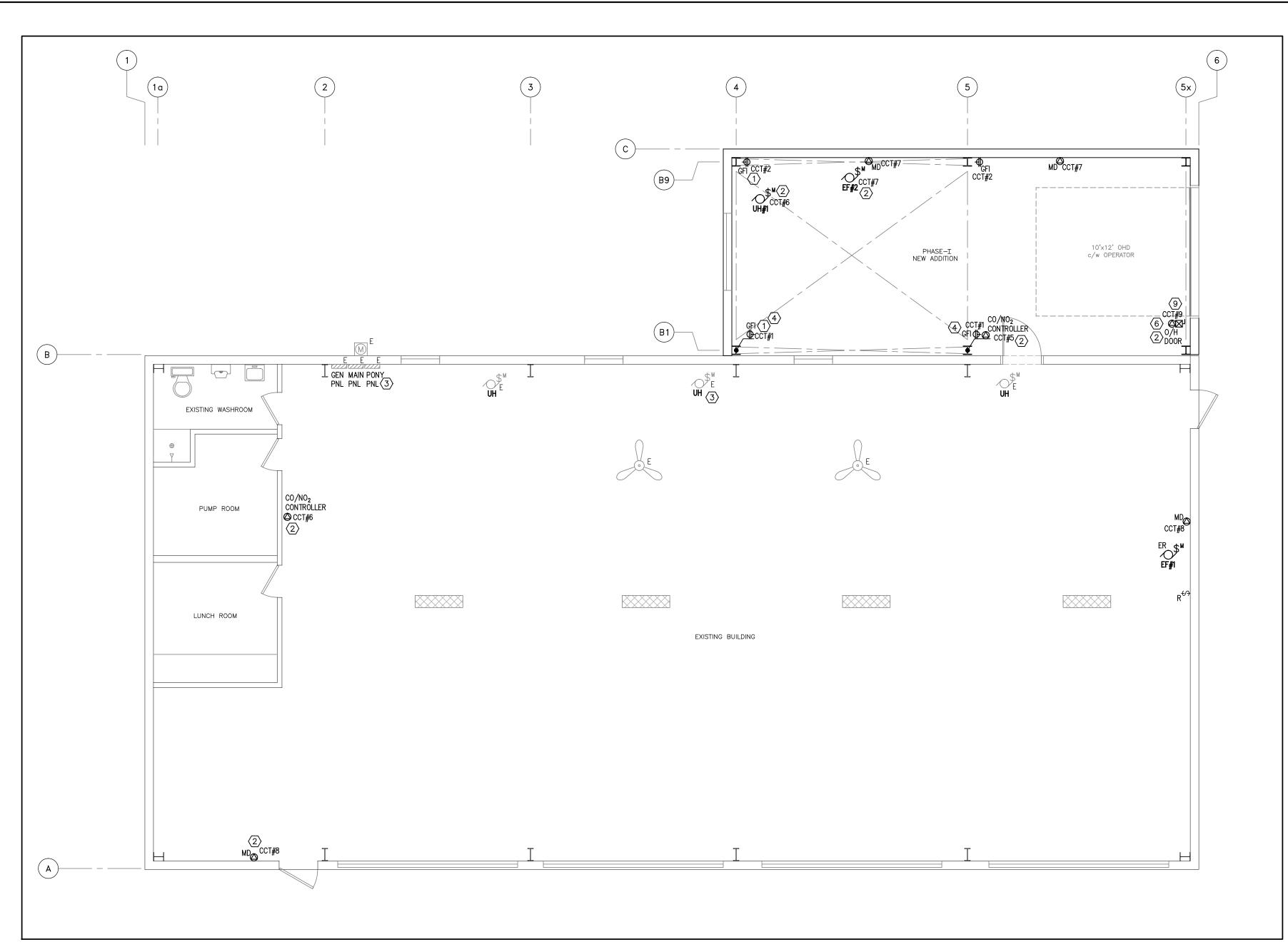
ONTARIO

PHASE I — MECHANICAL HEATING & VENTILATION REMOVALS & UPGRADES FLOOR PLAN

	_
drawn by:	date:
AC	JUNE 2022
checked by:	project no:
TK	6487
scale:	dwg no:
AS NOTED	- M101
plotted: June 16, 2022	

Unit Heater Schedule					
No.	MODEL BY REZNOR	AIR FLOW CFM	HEATING CAPACITY (IN/OUT) MBH	MOTOR & POWER SUPPLY	NOTES
UH#1	UDAS-150	1921	150.0 / 124.5	120V/1PH 15A	PROPELLER TYPE UNIT HEATER C/W REMOTE THERMOSTAT, VIBRATION ISOLATORS, HORIZONTAL COMBUSTION AIR/VENT KIT INCLUDING CONCENTRIC ADAPTER

Exhaust Fan Schedule					
No.	MODEL BY JENCO	AIR FLOW CFM	ESP "	MOTOR & POWER SUPPLY	NOTES
EF#1	LC20-1/2-E	3000	0.3	120V 1PH	C/W DISCONNECT SWITCH, NEW VIBRATION ISOLATORS, HANGERS. INSULATE ALL ASSOCIATED DUCTWORK.
EF#2	GED12-1/4	500	0.3	120/208V 1PH	C/W DISCONNECT SWITCH, NEW VIBRATION ISOLATORS, HANGERS. INSULATE ALL ASSOCIATED DUCTWORK.



1 \ Electrical - Power - Floor Plan E101 3/16" = 1'-0"

ELECTRICAL LEGEND

LIGHTING FIXTURE, CLG MTD (TYPE AS NOTED) EXISTING LIGHTING FIXTURE TO REMAIN

EXISTING LIGHTING FIXTURE TO BE REMOVED

WALL MOUNTED LIGHT FIXTURE (TYPE AS INDICATED)

STRIP LIGHTING FIXTURE (TYPE AS INDICATED)

120V WALL MOUNTED SWITCH UNLESS OTHERWISE SPECIFIED

SINGLE ZONE CAT5 CONNECTED, 0-10V WALL MOUNTED DIMMER SWITCH WITH ON/OFF CONTROL

COMBINATION PICTOGRAM EXIT/EMERGENCY LIGHT TO BE EQUAL TO

MOTOR RATED SWITCH WITH PILOT LIGHT

STANPRO PRMXL SERIES, 12V, 36 WATTS, AUTO TEST OPTION.

DUAL REMOTE EMERGENCY LIGHTING HEAD

WALL MOUNTED DUPLEX RECEPTACLE

GROUND FAULT DUPLEX RECEPTACLE

DUPLEX RECEPTACLE 5-20R 20A T-SLOT

SPECIAL RECEPTACLE AS NOTED

ELECTRICAL PANEL, SURFACE MOUNTED (DESIGNATION AS SHOWN) EP'X'

SAFETY DISCONNECT SWITCH — UNFUSED

SAFETY DISCONNECT SWITCH - FUSED

COMBINATION MAGNETIC STARTER WITH INTERNAL CIRCUIT BREAKER AND OVERLOAD PROTECTION

DIRECT CONNECTION FOR EQUIPMENT

MOTORIZED DAMPER

⊘ MOTOR CONNECTION

EF#'X' EXHAUST FAN (DESIGNATION AS SHOWN)

UH**#**'X' UNIT HEATER (DESIGNATION AS SHOWN)

WEATHERPROOF DEVICE

DEVICE WITH GUARD AS NOTED

GROUND FAULT DEVICE

CENTERLINE DEVICE MOUNTING HEIGHT ABOVE FINISHED FLOOR

CENTERLINE DEVICE MOUNTING HEIGHT ABOVE FINISHED GRADE

EXISTING DEVICE TO BE REMOVED

EXISTING DEVICE TO BE RELOCATED

EXISTING DEVICE TO REMAIN

EXISTING DEVICE TO BE REPLACED WITH NEW

ELECTRICAL GENERAL NOTES: 1. ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ONTARIO

ELECTRICAL SAFETY CODE.

2. ELECTRICAL CONTRACTOR IS TO OBTAIN ALL APPROVALS FROM LOCAL ELECTRICAL SAFETY AUTHORITY PRIOR TO COMMENCING WORK.

3. ALL DEVICES SHOWN ARE NEW, UNLESS OTHERWISE NOTED. 4. FIRE STOP ALL PENETRATIONS THRU FIRE RATED ASSEMBLIES.

1. PROVIDE BONDING CONDUCTOR AND CONNECTION (AS PER OESC) FOR ALL PERMANENTLY CONNECTED EQUIPMENT. COORDINATE EXACT REQUIREMENTS

2. BRANCH CIRCUIT WIRING TO BE INSTALLED IN EMT CONDUIT. REFER TO THE SPECIFICATIONS ON THE MAXIMUM LENGTH OF ARMOURED CABLES THAT CAN BE USED.

3. ENSURE A MINIMUM OF 1M CLEARANCE IS MAINTAINED IN FRONT OF ALL PANELS AND DISCONNECT SWITCHES.

4. ELECTRICAL CONTRACTOR TO TRACE OUT ALL EXISTING CIRCUITS IN EXISTING PANELS AND UPDATE AS-BUILT DRAWINGS WITH ALL CIRCUITING - TYPE WRITTEN PANEL SCHEDULES TO BE PROVIDED FOR ALL PANELS.

5. ELECTRICAL CONTRACTOR TO PROVIDE THE DEVICE AND ROOM LOCATION INFORMATION ON ALL CIRCUITS IN THE PANEL SCHEDULE. (FOR EXAMPLE, RECEPT - RM 100)

6. PROVIDE CLEAR LABELS ON ALL WIRING DEVICES INDICATING PANEL AND CIRCUIT NUMBERING, (FOR EXAMPLE PNL#A CCT 11.)

<u>LIGHTING GENERAL NOTES:</u>

1. DASHED LINES JOINING FIXTURES, SENSORS, AND SWITCHES INDICATE THE FIXTURES THAT ARE CONTROLLED BY EACH SENSOR AND SWITCH.

. COMBINATION STEEL PICTOGRAM EXIT/EMERGENCY LIGHT TO BE NEW 12 VOLT, 72 WATT, COMPLETE WITH TWO 7W LED HEADS, EQUAL TO STANPRO PRMS-1072 SERIES TO BE COMPLETE WITH AUTO-TEST AND SELF-DIAGNOSTIC.

3. CUBIC REMOTE EMERGENCY LIGHTING HEADS TO BE: FULLY ADJUSTABLE LED REMOTE EMERGENCY LIGHT FIXTURE 360° HORIZONTAL AND 180° VERTICAL ADJUSTMENT INSIDE CUBE IMPACT— RESISTANT POLYCARBONATE CUBE HOUSING. LAMP TYPE: 7W LED, SINGLE OR DOUBLE LAMP, PRODUCTS: STANPRO SMC1-12-7W-LA-WH, STANPRO SMC2-12-7W-LA-WH OR EQUAL.

4. EXISTING LAMPS AND BALLASTS TO BE DISPOSED OF IN MANNER THAT SATISFIES ALL LOCAL AND ENVIRONMENTAL CODES, IN ACCORDANCE WITH MOE GUIDELINES AND IN APPROVED DISPOSAL FACILITY.

5. ALL EXISTING LIGHT FIXTURES IN AREAS SHOWN WITH NEW LIGHT FIXTURES ARE TO BE REMOVED. NEW LIGHT FIXTURES TO BE RECONNECTED TO EXISTING CIRCUITS AND WIRING. EXTEND WIRING AS

6. ALL EXISTING SWITCHES AND EXISTING WIRING ARE TO BE RE-USED UNLESS OTHERWISE NOTED. COORDINATE ALL WIRING OF LIGHTING FIXTURES ON SITE.

7. ALL HIGH BAY FIXTURES ARE SUPPORTED FROM STEEL BEAM WITH AIRCRAFT CABLE.

ELECTRICAL DRAWING NOTES:

PROVIDE A NEW 20A/SP BREAKER IN EXISTING 120/240V PONY PANEL PANEL AND FEED WITH 2#12-16mmC. NEW BREAKER SHALL MATCH EXISTING PANEL KAIC INTERRUPTING RATING. PONY PANEL IS AN EATON

2 PROVIDE A NEW 15A/SP BREAKER IN EXISTING 120/240V PONY PANEL AND FEED WITH 2#12-16mmC. NEW BREAKER SHALL MATCH EXISTING PANEL KAIC INTERRUPTING RATING. PONY PANEL IS AN EATON CBM118.

(3) UNIT HEATER'S CIRCUIT TO BE MOVED FROM PONY PANEL TO GEN PANEL. EXTEND WIRING WITH 2#12-16mmC FEED TO SPARE 15A/SP BREAKER LABELLED FURNACE IN GEN PANEL. REVISE PANEL SCHEDULE.

(4) RECEPTACLE TO BE SURFACE MOUNTED TO I-BEAM COLUMN AND FED WITH EMT CONDUIT TO PREVENT MECHANICAL DAMAGE.

5 ELECTRICAL DEVICE TO BE RE-FED FROM ELECTRICAL PANEL TO ACCOMMODATE WALL DEMOLITION. CONDUCTOR SIZE TO BE MINIMUM #12AWG FOR 15A AND 20A DEVICES. LARGER CONDUCTORS TO BE SIZED AS PER TABLE 2 (OESC). ALL NEW FEEDERS TO HAVE EMT CONDUIT TO PREVENT MECHANICAL DAMAGES.

(6) CONTRACTOR TO SITE VERIFY OVERHEAD DOOR MOTOR POWER REQUIREMENTS AND FEED FROM APPROPRIATELY SIZED BREAKER AND

(7) LIGHTING FIXTURE TO MATCH MOUNTING HEIGHT OF EXISTING LIGHTING FIXTURE ON SAME WALL.

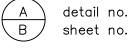
8 PROVIDE JUNCTION BOX FOR EACH RELOCATED PANEL AND EXTEND ALL WIRING IN EMT CONDUIT. ALL WIRING IN JUNCTION BOX TO BE TERMINATED TO NUMBERED TERMINAL BLOCK. LABEL ALL WIRING TO

(9) INSTALLATION OF CONTROL BOX, CONDUIT AND WIRING BY DIV. 16.

(10) RETURN FIXTURE TO OWNER.

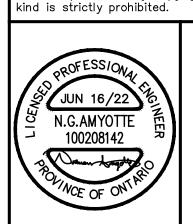
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2373 CHISWICK LINE PUBLIC WORKS GARAGE

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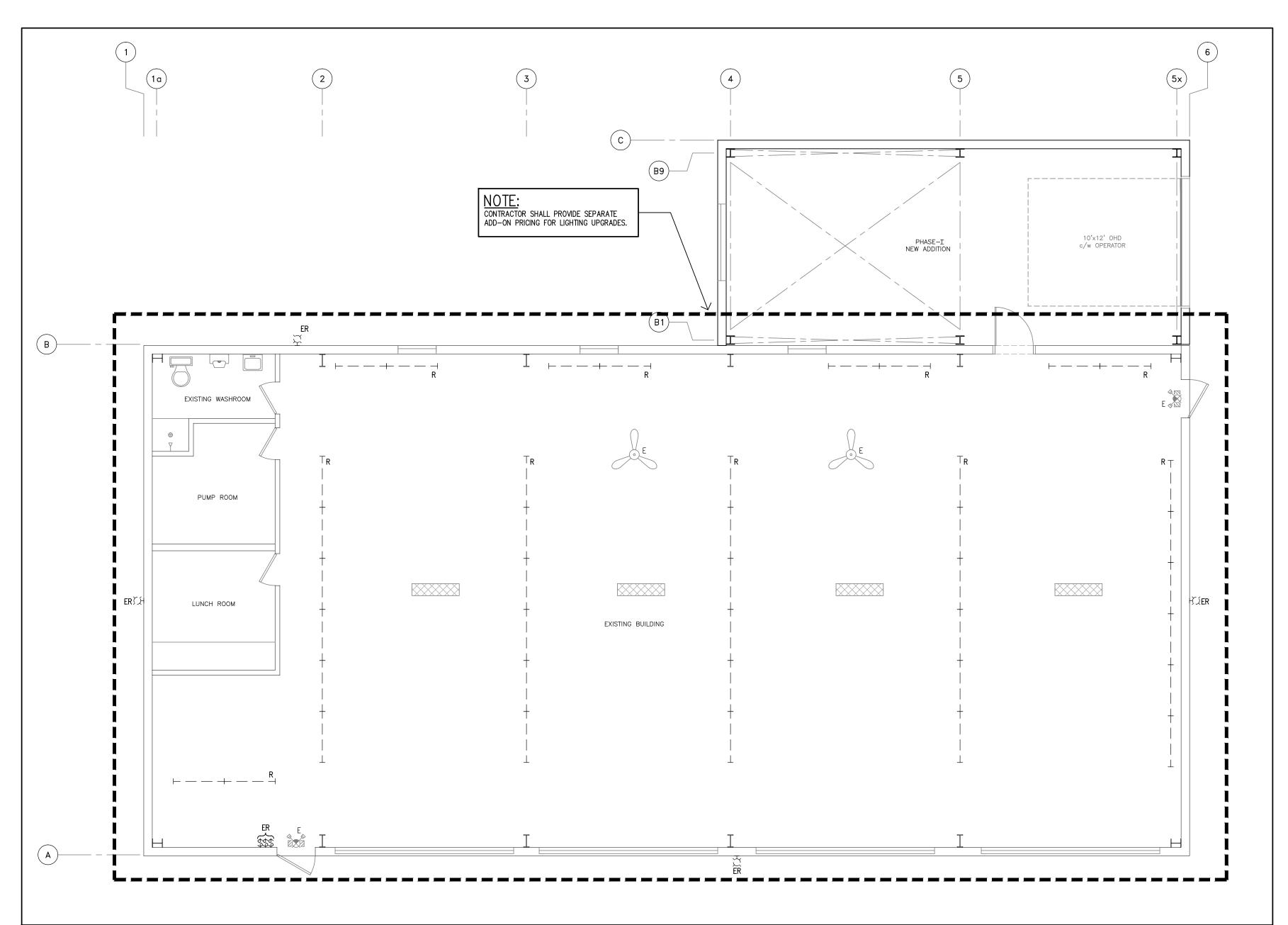
PHASE I — ELECTRICAL

June 16, 2022

POWER REMOVALS & UPGRADES

drawn by: NGA	date: JUNE 2022	
checked by: NGA	project no: 6487	36"x24")
scale: AS NOTED	dwg no: E101	= ARCH D (
plotted:		SIZE

FLOOR PLAN, LEGEND & NOTES



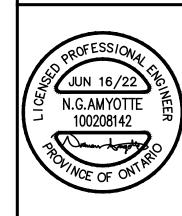
Lighting - Removals - Floor Plan $E102^{3/16"} = 1'-0"$

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project

2373 CHISWICK LINE PUBLIC WORKS GARAGE

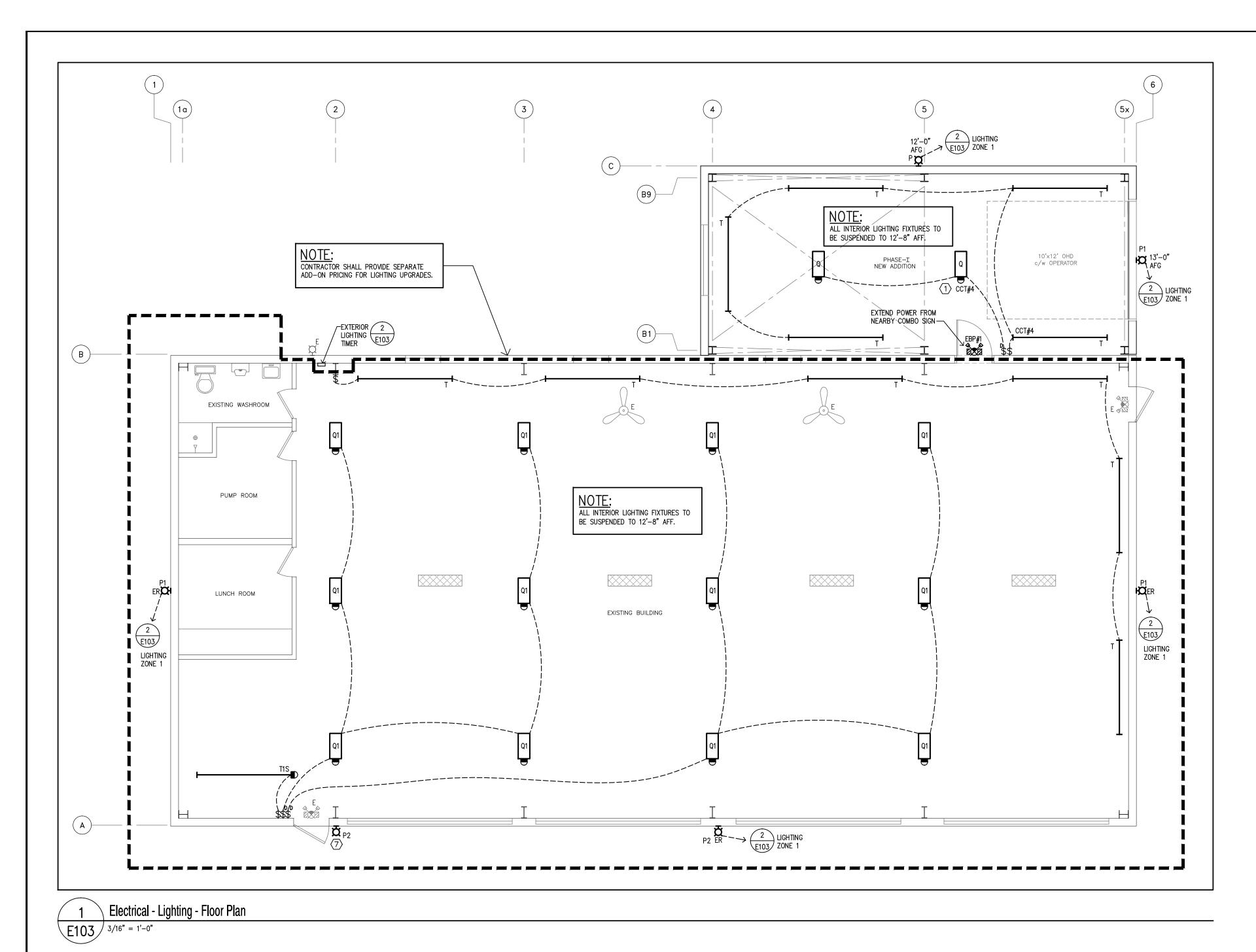
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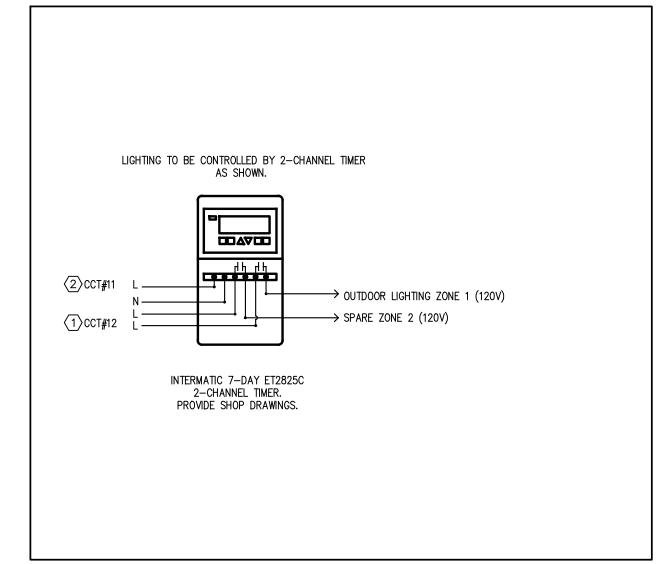
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PHASE 1 — ELECTRICAL LIGHTING REMOVALS FLOOR PLAN

	drawn by: NGA	date: JUNE 2022				
	checked by: NGA	project no: 6487				
	scale:	dwg no:				

AS NOTED E102 June 16, 2022





2 Lighting Timer Relay Detail

\E103 / N

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N.G.AMYOTTE

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2373 CHISWICK LINE PUBLIC WORKS GARAGE

CHISHOLM

June 16, 2022

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PHASE I — ELECTRICAL LIGHTING UPGRADES FLOOR PLAN

drawn by: NGA	date: JUNE 2022
checked by: NGA	project no: 6487
scale: AS NOTED	dwg no:
plotted:	