



## **ADDENDUM NO. 2**

**Request for Tenders #: T-734-26**

**BUILDING SYSTEM UPGRADES - HVAC, LED LIGHTING, NURSING CALL, AND KITCHEN FIRE SUPPRESSION HOOD AT 2387 INDUSTRIAL ST, BURLINGTON, ON**

**TO WHOM IT MAY CONCERN:**

---

This addendum, issued Friday, May 15, 2026, must be incorporated into and made part of the above noted Request for Tenders document.

### **ISSUE #1: AMENDMENTS TO THE SUPPLEMENTARY INSTRUCTIONS TO BIDDERS, SECTION 1 – KEY BID DATES (AND AS AMENDED UNDER ISSUE #1 OF ADDENDUM NO. 1)**

Section 1. Key Bid Dates of the Supplementary Instructions to Bidders were amended on May 7<sup>th</sup> by Addendum No. 1 and are now further amended by this Addendum No. 2 as follows:

1. The 'Question Deadline Date' referenced in subsection c. is hereby revised to:  
**Tuesday, May 19, 2026, at 4:00 p.m. ET.**
2. The 'Bid Closing Date and Closing Time' referenced in subsection d. is hereby revised to:  
**Tuesday, May 26, 2026, at 2:00 p.m. ET.**

### **ISSUE #2: AMENDMENTS TO THE CONTRACT DRAWINGS**

The following drawings are hereby deleted in their entirety and replaced by the attached revised drawings:

- a. Electrical Drawings E1, E2, E3, E4, E5, E6, E7, E8, E9, E10, E11, E12 (located on RFT T-734-26 pages 710 – 721); revised Drawings E1, E2, E3, E4, E5, E6, E7, E8, E9, E10, E11, E12 attached hereto on pages 4 - 15;
- b. Nurse Call Drawings EC1, EC2, EC3, EC4, EC5, EC6, EC7, EC8 (located on RFT T-734-26 pages 722 – 729); revised Drawings EC1, EC2, EC3, EC4, EC5, EC6, EC7, EC8 attached hereto on pages 16 – 23;

- c. Mechanical Drawings M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11 (located on RFT T-734-26 pages 730 – 740); revised Drawings M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11 attached hereto on pages 24 – 34.

### **ISSUE #3: RESPONSES TO QUESTIONS RECEIVED BY THE REGION**

**Question 1:** Don't find a specification for DB1 & 2. Please provide.

**Answer 1: Domestic hot water boiler specifications have been added to the boiler schedule. Refer to revised Drawing M1 attached hereto.**

**Question 2:** Electrical work for the mechanical work, boiler, pumps etc. No details provided. For pricing purposes, we should include to disconnect existing and re-use/reconnect to new? Anything else like wrong size, phase, amps etc. will be an extra? Otherwise, please provide drawings and details of all existing services, electrical panel locations, breaker sizes etc.

**Answer 2: Electrical information for pumps have been provided in the revised drawings attached hereto. New equipment is to be connected to the existing electrical panel in the Mechanical Room.**

**Question 3:** Please confirm only 3 nurse call data junction boxes are required per the drawings and contrary to the summary of work.

**Answer 3: Nurse call drawings have been updated, along with electrical wiring diagram. Revised drawings are attached hereto.**

**Question 4:** The high efficiency water heater (1123 Homewood Drive Laundry room) was removed from the Schedule of Prices, however, HWT-1 is still shown on the drawings. Please clarify.

**Answer 4: Mechanical drawings have been updated, Boiler schedule updated. Refer to revised Drawing M2 attached hereto. The Schedule of Prices was updated as a result of Addendum No. 1.**

**Question 5:** The updated Schedule of Prices, Item 6, includes an Expansion Tank 01, however, this is not shown anywhere on the drawings. Please clarify a scope of work.

**Answer 5: Expansion tanks have been added to the revised Mechanical Drawings attached hereto.**

**Question 6:** Electrical: Please provide the SLD, panel schedule and the specs-bus material, kAIC, etc.

**Answer 6: Electrical information has been updated. Refer to the revised Drawing M1 attached hereto for new equipment.**

**Question 7:** As requested by the subtrade's supplier, kindly provide the following information

1. Single Line Diagram (SLD)
2. Panel schedule
3. Specifications for bus material, KAIC rating, etc.

**Answer 7: Electrical information for new devices (boilers and pumps ) has been updated in the revised Drawings attached hereto.**

**Question 8:** Is there a make and model for DB-1 and DB-2?

**Answer 8: Refer to the Boiler Schedule on revised Drawing M1 attached hereto.**

**Question 9:** Due to the expected large addendum, we feel we'll need time to review and ask additional questions. We request an extension to the question period and bid closing date.

**Answer 9: Please see Issue #1 above.**

All other terms and conditions remain the same. This addendum must be acknowledged in the Bid submission.

Penny Howson  
Senior Strategic Sourcing Specialist

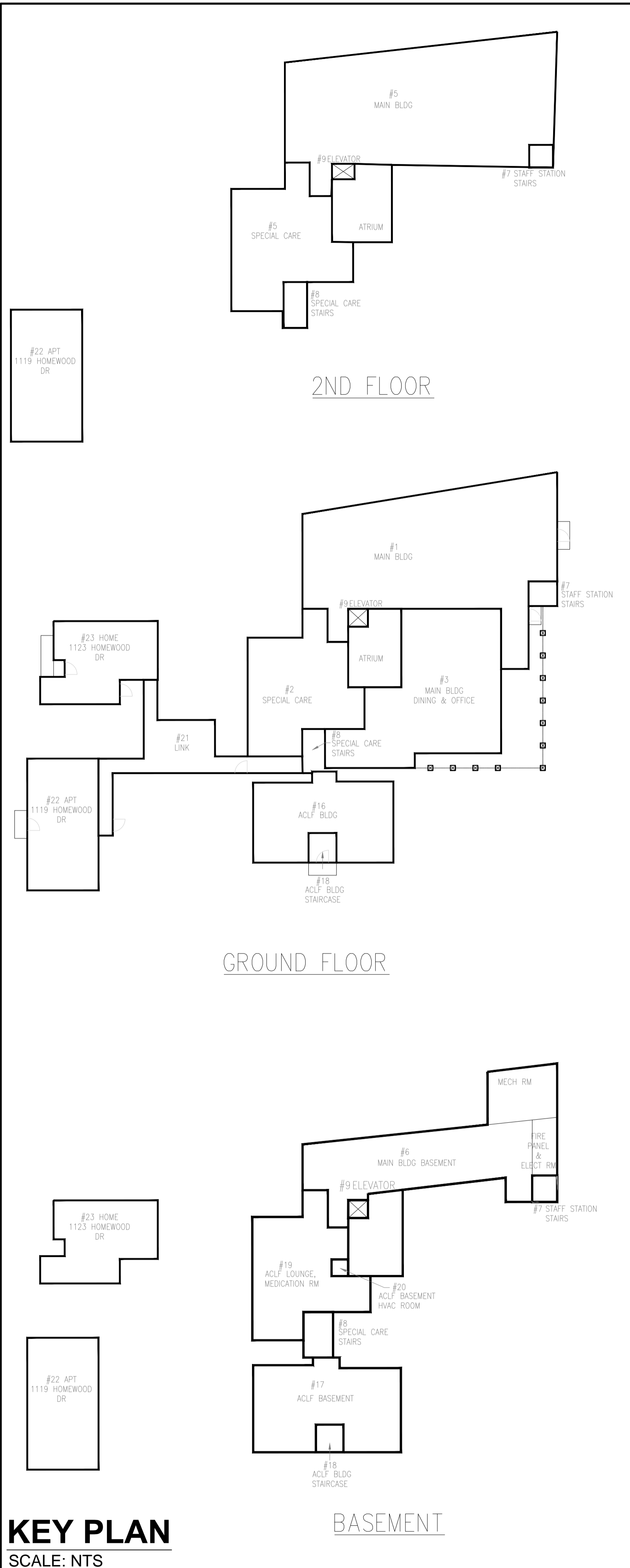
Regional Municipality of Halton

HEAD OFFICE: 1151 Bronte Rd, Oakville, ON L6M 3L1

905-825-6000 | Toll free: 1-866-442-5866

halton.ca 311





**KEY PLAN**  
SCALE: NTS



**SITE PLAN**  
SCALE: NTS

**BETHANY RESIDENCE — EMERGENCY EXIT SIGNS AND LIGHTS SCHEDULE**

TAG	MAKE	MODEL	QTY
BP1	BELUCE	NV-672-2SR-5WLED-120347V-BU	1
	BELUCE	SR2-6V-5WLED	3
	BELUCE	SL-RM-ACDC-U-OLR-M	2
BP2	BELUCE	NV-6-90-2SR-5WLED-120347V-BU	1
	BELUCE	SL-RM-ACDC-U-OLR-M	5
	BELUCE	SR2-6V-5WLED	4
BP3	BELUCE	NV-6-100-2SR-5WLED-120347V-LC-BU	1
	BELUCE	SR2-6V-5WLED	6
	BELUCE	SL-RM-ACDC-U-OLR-M	3
	BELUCE	SL-RM-636-L-U-OLR-M-2SR-5WLED-120347V-BU	2
BP4	BELUCE	NV-636-2SR-5WLED-120347V-BU	1
BP5	BELUCE	NV-672-2SR-5WLED-120347V-BU	1
	BELUCE	SR2-6V-5WLED	4
	BELUCE	SL-RM-ACDC-U-OLR-M	1
	BELUCE	SL-RM-636-L-U-OLR-M-2SR-5WLED-120347V-BU	2
BP6	BELUCE	NV-6-100-2SR-5WLED-120347V-BU	1
BP7	BELUCE	NV-6-100-2SR-5WLED-120347V-BU	1
	BELUCE	VE2-C-RM-L-U-OLR-M	1
	BELUCE	SL-RM-636-L-U-OLR-M-2SR-5WLED-120347V-BU	1
BP8	BELUCE	NV-672-2SR-5WLED-120347V-BU	1
	BELUCE	SL-RM-ACDC-U-OLR-M	1
	BELUCE	SR2-6V-5WLED	1
	BELUCE	SR2-6V-5WLED	4
	BELUCE	SL-RM-ACDC-U-OLR-M	1
BP9	BELUCE	NV-672-2SR-5WLED-120347V-BU	1
	BELUCE	SR2-6V-5WLED	4
	BELUCE	SL-RM-650-L-U-OLR-M-2SR-5WLED-120347V-BU	3
	BELUCE	SL-RM-ACDC-U-OLR-M	3
	BELUCE	SL-RM-636-L-U-DL-M-2SR-5WLED-120347V-BU	1
	BELUCE	NV-636-2SR-5WLED-120347V-BU	4
BP10	BELUCE	NV-636-2SR-5WLED-120347V-BU	1
	BELUCE	SL-RM-ACDC-U-OLR-M	1
	BELUCE	NV-636-2SR-5WLED-120347V-BU	1
	BELUCE	NV-636-2SR-5WLED-120347V-BU	1
BP11	BELUCE	NV-636-2SR-5WLED-120347V-BU	1
BP12	BELUCE	NV-636-2SR-5WLED-120347V-BU	1
	BELUCE	NV-636-2SR-5WLED-120347V-BU	1
	BELUCE	SL-RM-ACDC-U-OLR-M	1

- GENERAL ELECTRICAL NOTES:**
- THESE NOTES SHALL APPLY TO ALL DRAWINGS COMPRISED IN THE ELECTRICAL SET.
- THESE DRAWINGS ARE DIAGRAMATIC IN NATURE AND INTENDED TO OUTLINE THE GENERAL ELECTRICAL SCOPE OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE TO IDENTIFY ALL EXISTING CONDITIONS. NOT EXTRAS WILL BE CONSIDERED FOR NOT IDENTIFYING EXISTING CONDITIONS ON SITE PRIOR TO PRICING THE WORK.
  - REMOVE EXISTING AND PROVIDE NEW EXIT SIGNS AS INDICATED. EXIT SIGNS SHALL BE GREEN RUNNING MAN TYPE EXIT SIGN C/W INTEGRATED BATTERY WITH AND WITHOUT EMERGENCY LIGHTS. LOCATE NEAREST EXIT SIGN CIRCUIT AND CONNECT TO PROVIDE POWER TO NEW EXIT SIGNS.
  - ALL NEW INTERIOR LIGHT FIXTURES SHALL BE LED TYPE AND MATCH EXISTING LOCATIONS UNLESS NOTED OTHERWISE. WHERE NEW ADDITIONAL FIXTURES HAVE BEEN ADDED, CONTRACTOR TO EXTEND POWER FROM EX LOCATION TO SERVE NEW. EXTEND WIRING IN WALL/CEILING AND FINISH WALL/CEILING SURFACE TO MATCH EXISTING.
  - ALL NEW ELECTRICAL EQUIPMENT SHOWN ON DRAWINGS SHALL BE WIRED FROM THE NEAREST AVAILABLE CIRCUIT. ALL NEW BRANCH WIRING SHALL BE MINIMUM #12 AWG CU R90.
  - SUPPLY AND INSTALL EMERGENCY LIGHTING AS SHOWN. ENSURE THAT BATTERY PACKS PROVIDE MINIMUM 30 MINUTES OF EMERGENCY BACK UP POWER TO ALL CONNECTED EMERGENCY LIGHTS AND EXIT SIGNS. PROVIDE TEST RESULTS TO ENGINEER AS PART OF COMMISSIONING REQUIREMENTS.
  - EXTERIOR LIGHTING FOR EMERGENCY STAIRS SHALL BE RATED FOR OUTDOOR USE. SUPPLY AND INSTALL PHOTO SENSOR FOR EXTERIOR LIGHTING. PHOTO SENSOR SHALL TURN FIXTURES OFF DURING DAY LIGHT HOURS. EACH FIXTURE SHALL ALSO BE EQUIPPED WITH MOTION SENSOR SUCH THAT IT ONLY TURNS ON WHEN THERE IS MOTION ALONG THE EGRESS PATH.
  - COMPLETE ALL ARCH REPAIR SUCH AS CEILING AND DRYWALL REPAIRS WHERE EXISTING AND NEW WIRING HAS BEEN MODIFIED/INSTALLED. FINISH WALL/CEILING SURFACES TO MATCH EXISTING.
  - RE-USE EXISTING EMERGENCY LIGHTING AND EXIT SIGNAGE CIRCUITS, BREAKERS, AND WIRING TO FEED NEW EXIT AND EMERGENCY LIGHTING. CONTRACTOR TO FIELD VERIFY EXISTING PANEL AND PANEL LOCATION FEEDING EMERGENCY LIGHTING AND EXIT SIGNS.
  - LAYOUTS SHOWN ARE FOR REFERENCE ONLY. REVIEW THE EXACT LOCATION AND ROOMS SHOWN ON DRAWINGS DURING THE BID MEETING. NEW DEVICE LOCATIONS TO MATCH EXISTING.
  - CONTRACTOR SHALL COORDINATE LOCATIONS OF FIXTURES AND ELECTRICAL DEVICES INSTALLED IN OR ON THE CEILING WITH ARCH CEILING PLAN. CEILING MOUNTED ELECTRICAL DEVICES SHALL BE MOUNTED IN THE CENTER OF THE CEILING TILE, UNLESS OTHERWISE NOTED OR NOT APPLICABLE.
  - WHERE DIRECTED TO USE OR RETAIN EX CIRCUITS, AND THE CIRCUIT NUMBERS DIFFER FROM SITE CONDITION, UPDATE DIRECTORIES AND RECORD DRAWINGS.
  - PROPERLY SUPPORT PER CODE LOW VOLTAGE CABLING NOT IN CONDUIT. PROVIDE PROPER PERMANENT SUPPORTS AS NEEDED TO COMPLY WITH CODE AND TAKE WEIGHT OFF CEILING SUPPORTS. REMOVE AND REINSTALL ELECTRICAL DEVICES AND EQPT AS NEEDED FOR PAINTING. LOW VOLTAGE CABLING LOCATED IN EXPOSED STRUCTURE (CEILING) AREA SHALL BE INSTALLED IN CONDUIT (OR CABLE TRAY) AND ROUTED TIGHT TO DECK. INSTALLATION NOT IN COMPLIANCE WITH THIS REQUIREMENT SHALL BE REMOVED AND REINSTALLED AT CONTRACTOR'S EXPENSE.
  - UNLESS NOTED OTHERWISE, EXISTING NURSE CALL DEVICE, WIRING AND EQUIPMENT TO BE REMOVED.
  - CONTRACTOR TO CARRY COST FOR SUPPLY AND INSTALLATION OF 10 ADDITIONAL EMERGENCY EXIT SIGNS AND EMERGENCY LIGHT.

**ELECTRICAL LEGEND**

	BASE BUILDING FLUORESCENT FIXTURE
	FLUORESCENT LUMINAIRE
	WALL MOUNTED FLUORESCENT LUMINAIRE
	LUMINAIRES ON EMERGENCY POWER
	CEILING MOUNTED LUMINAIRE
	WALL MOUNTED LUMINAIRE
	WALL WASHER LUMINAIRE
	CEILING SUSPENDED LUMINAIRE
	LUMINAIRE DESIGNATOR LETTER DENOTES TYPE REFER TO LUMINAIRE SCHEDULE
	WALL MOUNTED EMERGENCY LIGHTING REMOTE HEAD(S)
	CEILING MOUNTED EMERGENCY LIGHTING REMOTE HEAD(S)
	WALL MOUNTED EMERGENCY LIGHTING BATTERY UNIT WITH HEAD(S)
	CEILING MOUNTED EXIT SIGN DIRECTIONAL ARROW(S) AND WALL FACE(S) AS SHOWN
	WALL MOUNTED EXIT SIGN DIRECTIONAL ARROW(S) AND WALL FACE(S) AS SHOWN
	EXIT SIGN WITH BATTERIES
	TOGGLE SWITCH - 120V
	SURFACE FLOOR MOUNTED COMBINATION OUTLETS WITH OUTLETS AS SHOWN
	RECESSED FLOOR MOUNTED COMBINATION OUTLETS WITH OUTLETS AS SHOWN
	NURSE CALL STATION PUSH BUTTON
	NURSE CALL STATION PULL STRING
	JUNCTION BOX
	DIRECT CONNECTION OUTLET
	SURFACE MOUNTED PANEL BOARD
	TRANSFORMER
	SURFACE MOUNTED RACEWAY FOR POWER AND/OR COMMUNICATIONS
	SERVICE POLE
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED OR RELOCATED
	EXISTING IN RELOCATED POSITION
	ABOVE FINISHED FLOOR
	NIGHT LIGHT CIRCUIT
	NORMAL CIRCUIT
	DEDICATED CIRCUIT FOR COMPUTERS
	SEPARATE CIRCUIT
	ISOLATED GROUND

**GENERAL NOTES:**

CONTRACTOR TO CHECK DRAWINGS AND VERIFY DIMENSIONS ON THE JOB.

REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION OR SHOP FABRICATION.

DO NOT SCALE DRAWINGS.

ALL DRAWINGS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF PROBUILD ENGINEERING INC.

REPRODUCTION OF DRAWINGS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION FROM PROBUILD ENGINEERING INC.

APPROVED BY:

**BETHANY RESIDENCE — EXTERIOR LUMINAIRE SCHEDULE**

LABEL	MAKE/MODEL	DESCRIPTION	REPLACEMENT/ NEW	LUMENS / LAMP	WATTAGE	NOTES
WC1	WAC LIGHTING WS-W190109	OUTDOOR WALL SCONCE, 90 CRI, 3K.	REPLACEMENT	545	120/160	PROVIDE JUNCTION AS REQD. PROVIDE WEATHERPROOF GASKET. COORDINATE MOUNTING HEIGHT WITH FACILITY TO ACHIEVE INTENDED LIGHT DISTRIBUTION & MINIMIZE GLARE. APPLY WEATHERPROOF SILICONE SEALANT AROUND TOP SIDE OF FIXTURE BASE. ALL EXTERIOR LIGHTS TO HAVE ON/OFF SWITCH. CONTRACTOR TO PROVIDE PHOTOCELL FOR DAYNIGHT OPERATION. COORDINATE ON/OFF SWITCH AND PHOTOCELL LOCATIONS WITH FACILITY
WC2	WAC LIGHTING 5CCT WS-W250114	OUTDOOR WALL SCONCE, 15W SWITCHABLE 2.7K-5K. PHOTOCELL WITH BYPASS.	REPLACEMENT	660	15W 120/160	
WCN	WAC LIGHTING 5CCT WS-W250114	OUTDOOR WALL SCONCE, 15W SWITCHABLE 2.7K-5K. PHOTOCELL WITH BYPASS.	NEW	660	15W 120/160	
LP	LITHONIA LIGHTING RSX1 LED P4 40K R2 MVOLT RPA FAO DDBXD	SQUARE POLE MOUNTING LIGHT, 15W SWITCHABLE 3K. PHOTOCELL WITH BYPASS.	REPLACEMENT	10,106	72W 120/160	

**BETHANY RESIDENCE — INTERIOR LUMINAIRE SCHEDULE**

LABEL	MAKE/MODEL	DESCRIPTION	NO. LAMPS	LUMENS / LAMP	WATTAGE	NOTES
A	Lithonia Lighting FM-15RN-930-WT	Flush-mounted Luminaires	1	2,539	27.05	
FA1	Lithonia Lighting CPX 1X4 6000LM 80CRI 35K SWL MVOLT	CPX 1X4, 6000 Lumens, 80 CRI, 3500K, Satin White Lens, 120-277	1	6,600	55.45	Surface mount: "1X4SMKSH"   Hanging: "PAC 2DF 36"   Drywall grid adapter: "DGA14"
FA1-1	Lithonia Lighting CPX 1X4 5000LM 80CRI 35K SWL MVOLT	CPX 1X4, 5000 Lumens, 80 CRI, 3500K, Satin White Lens, 120-277	1	5,166	42.25	Surface mount: "1X4SMKSH"   Hanging: "PAC 2DF 36"   Drywall grid adapter: "DGA14"
FA1-2	Lithonia Lighting CPX 1X4 4000LM 80CRI 35K SWL MVOLT	CPX 1X4, 4000 Lumens, 80 CRI, 3500K, Satin White Lens, 120-277	1	4,171	35.52	Surface mount: "1X4SMKSH"   Hanging: "PAC 2DF 36"   Drywall grid adapter: "DGA14"
FA1-3	Lithonia Lighting CPX 1X4 3200LM 80CRI 35K SWL MVOLT	CPX 1X4, 3200 Lumens, 80 CRI, 3500K, Satin White Lens, 120-277	1	3,313	29.30	Surface mount: "1X4SMKSH"   Hanging: "PAC 2DF 36"   Drywall grid adapter: "DGA14"
FA2	Juno Lighting JPD24 DB 1200LM 3500K 90CRI WWH	Juno Podz 4in LED Downlight Round Downlight Baffle 1200 Lumen 3500K 90CRI White, White Trim Ring	1	1,119	15.90	
FA3	Lithonia Lighting BLWP4 30L ADPT LP835	BLWP 4ft 3000 Nominal Lumens, Curved Linear Prismatic lens with trim rings, 3500K CCT, 80CRI	1	3,019	24.99	Contractor to provide mounting chains/wire as req'd.
FA3-1	Lithonia Lighting BLWP4 60L ADPT LP835	BLWP 4ft 6000 Nominal Lumens, Curved Linear Prismatic lens with trim rings, 3500K CCT, 80CRI	1	6,180	49.31	Contractor to provide mounting chains/wire as req'd.
FA3-2	Lithonia Lighting BLWP4 48L ADPT LP835	BLWP 4ft 4800 Nominal Lumens, Curved Linear Prismatic lens with trim rings, 3500K CCT, 80CRI	1	5,047	39.81	Contractor to provide mounting chains/wire as req'd.
FA4	Lithonia Lighting FMVCSLS 24IN MVOLT 30K35K40K	Contemporary Square 2ft, Switchable White CCT	1	1,574	17.92	
LRM6	Indy LBR6 ALO3 @30LM SWWW1 @35K AR LSS MVD	6IN LBR Retrofit 3000LM 3500K Clear Semi-Specular Medium Wide	1	3,501	37.76	

REV.	DATE	NAME	DESCRIPTION
01			
02			
03			
04	MAY 13, 26	MSK	ISSUED FOR TENDER ADD-0
05	MAR 26, 26	MSK	ISSUED FOR TENDER
06	NOV 27, 25	MSK	ISSUED FOR TENDER
07	MAY 23, 25	MSK	ISSUED FOR REVIEW



CONSULTANT:

**PROBUILD ENGINEERING**

50 Shandon Dr.,  
Toronto ON M1R 4M5, Canada  
Tel: (416) 671-0054  
www.ProBuildEngineering.ca  
info@ProBuildEngineering.ca

PROJECT NAME:

BUILDING UPGRADES  
BETHANY RESIDENCE

2387 INDUSTRIAL ST.  
BURLINGTON ON

DRAWING TITLE:

ELECT LEGEND, SITE  
PLAN & SCHEDULE

PROJECT NO:  
MK-2025-XXX

FILE NO:  
PBE-25-03

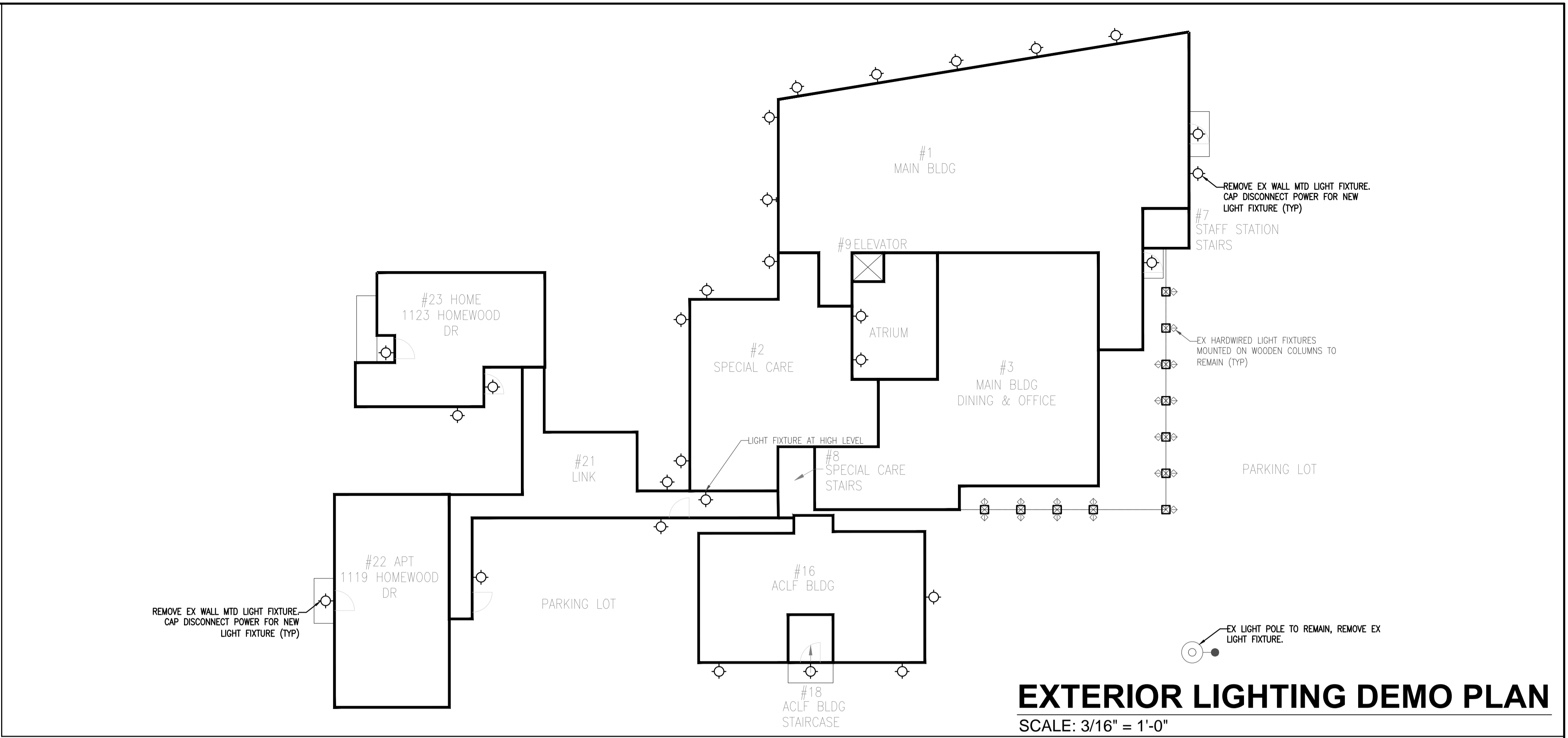
DATE: MAY 2025

SCALE: AS NOTED

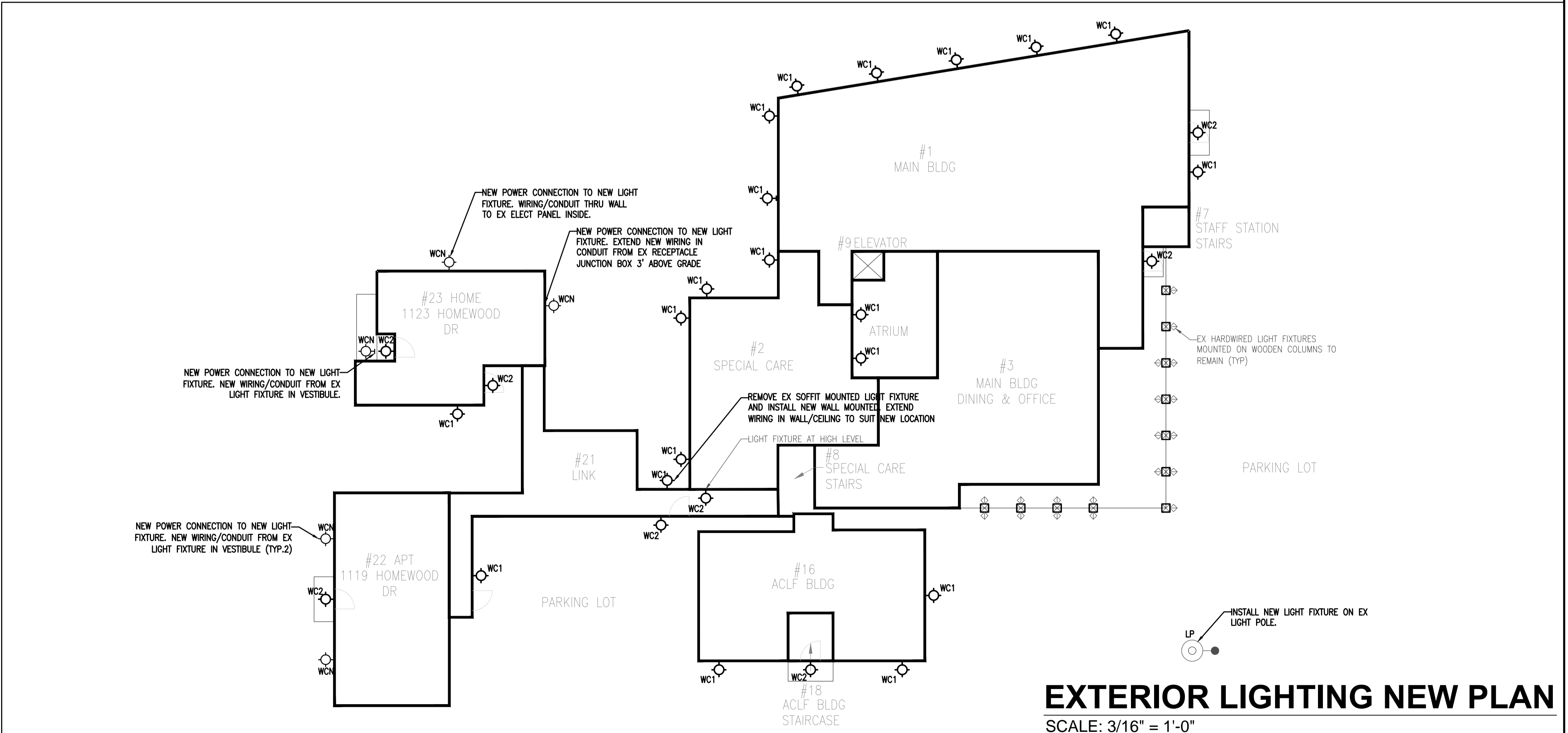
DRAWN BY: IE

CHECKED BY: MSK

DRAWING NO:  
**E1**



**EXTERIOR LIGHTING DEMO PLAN**  
SCALE: 3/16" = 1'-0"



**EXTERIOR LIGHTING NEW PLAN**  
SCALE: 3/16" = 1'-0"

GENERAL NOTES:  
CONTRACTOR TO CHECK DRAWINGS AND VERIFY DIMENSIONS ON THE JOB.  
REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION OR SHOP FABRICATION.  
DO NOT SCALE DRAWINGS.  
ALL DRAWINGS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF PROBUILD ENGINEERING INC.  
REPRODUCTION OF DRAWINGS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION FROM PROBUILD ENGINEERING INC.



APPROVED BY:

REV.	DATE	NAME	DESCRIPTION
01			
02			
03			
04	MAY 13, 26	MSK	ISSUED FOR TENDER ADD-0
05	MAR 26, 26	MSK	ISSUED FOR TENDER
06	NOV 21, 25	MSK	ISSUED FOR TENDER
07	MAY 23, 25	MSK	ISSUED FOR REVIEW

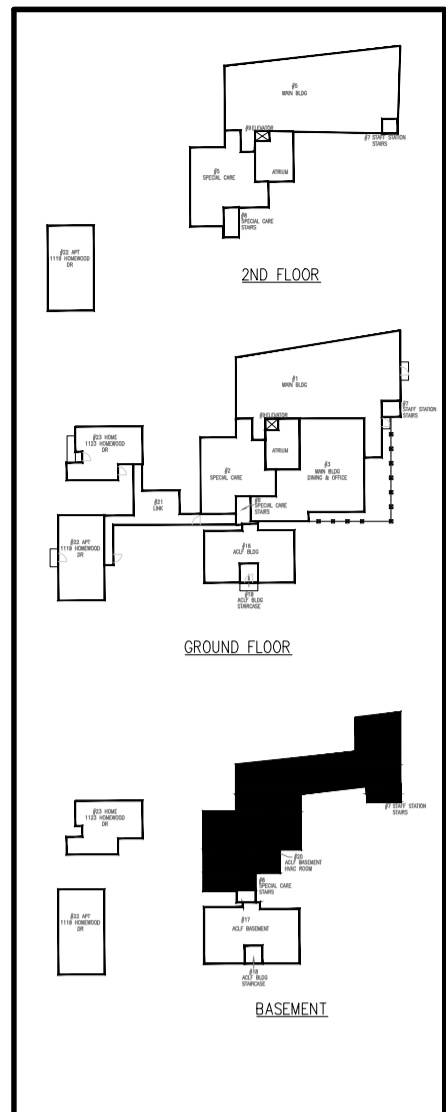
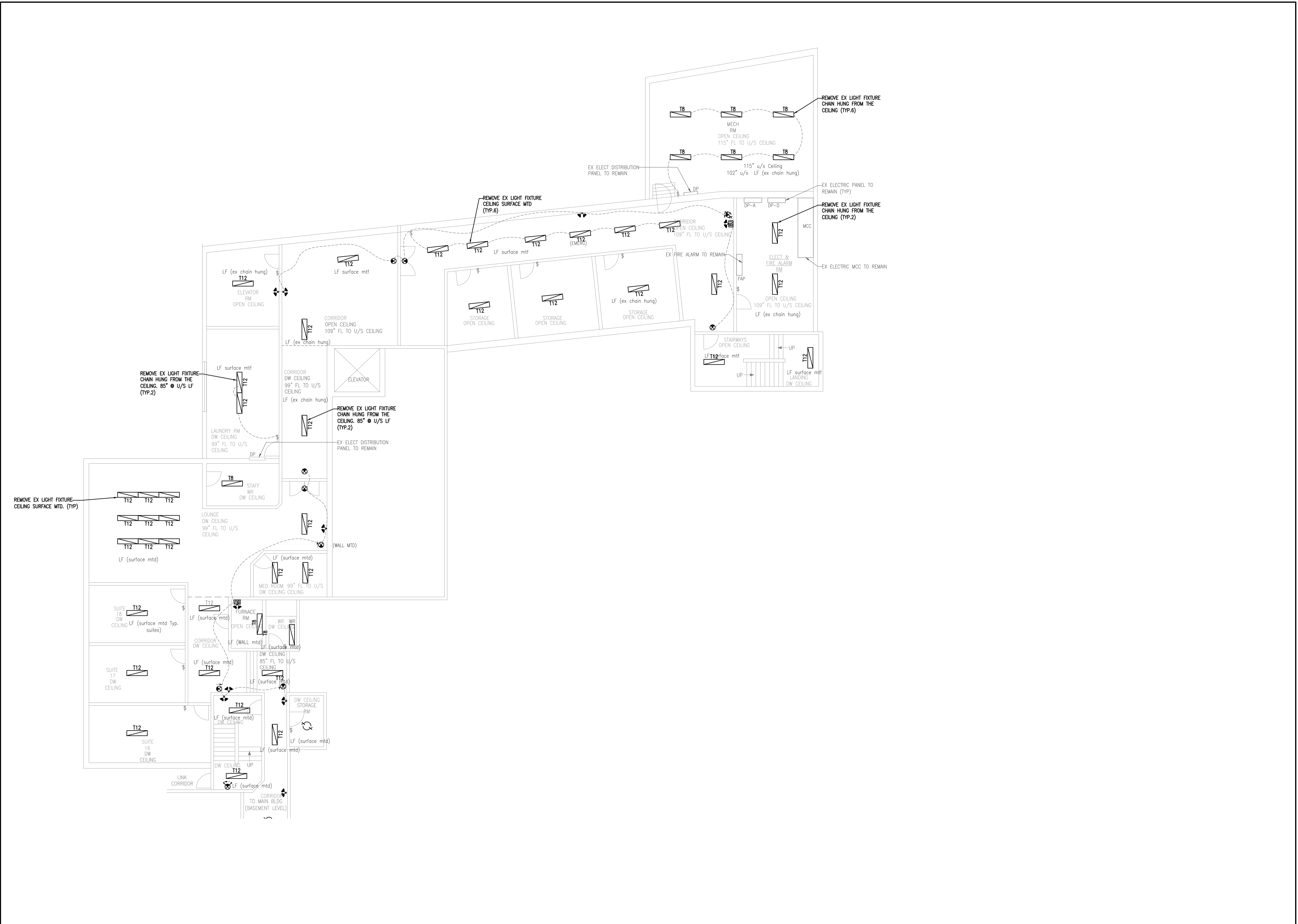


CONSULTANT:  
**PROBUILD ENGINEERING**  
50 Shandon Dr.,  
Toronto ON M1R 4M5, Canada  
Tel: (416) 671-0054  
www.ProBuildEngineering.ca  
info@ProBuildEngineering.ca

PROJECT NAME:  
BUILDING UPGRADES  
BETHANY RESIDENCE  
2387 INDUSTRIAL ST.  
BURLINGTON ON

DRAWING TITLE:  
ELECT EXTERIOR  
LIGHTING PLAN

PROJECT NO:  
MK-2025-XXX  
FILE NO:  
PBE-25-03  
DATE: MAY 2025  
SCALE: AS NOTED  
DRAWN BY: IE  
CHECKED BY: MSK  
DRAWING NO:  
**E2**



GENERAL NOTES:  
 CONTRACTOR TO CHECK DRAWINGS AND VERIFY DIMENSIONS ON THE JOB.  
 REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION OR SHOP FABRICATION.  
 DO NOT SCALE DRAWINGS.  
 ALL DRAWINGS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF PROBUILD ENGINEERING INC.  
 REPRODUCTION OF DRAWINGS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION FROM PROBUILD ENGINEERING INC.



APPROVED BY:

REV.	DATE	NAME	DESCRIPTION
04	MAY 13, 2026	MSK	ISSUED FOR TENDER ADD-03
03	MAR 26, 2026	MSK	ISSUED FOR TENDER
02	NOV 27, 2025	MSK	ISSUED FOR TENDER
01	MAY 23, 2025	MSK	ISSUED FOR REVIEW

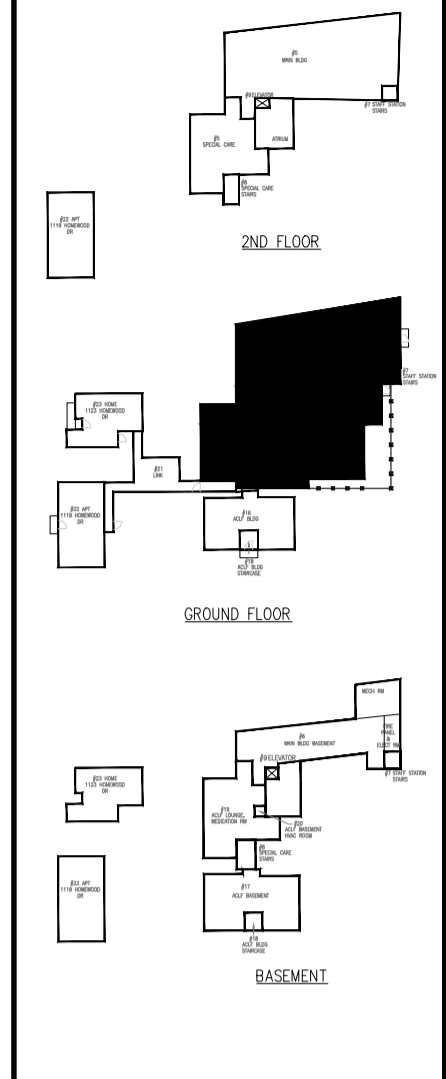


CONSULTANT:  
**PROBUILD ENGINEERING**  
 50 Shandon Dr.,  
 Toronto ON M1R 4M5, Canada  
 Tel: (416) 671-0054  
 www.ProBuildEngineering.ca  
 info@ProBuildEngineering.ca

PROJECT NAME:  
 BUILDING UPGRADES  
 BETHANY RESIDENCE  
 2387 INDUSTRIAL ST.  
 BURLINGTON ON

DRAWING TITLE:  
 MAIN BUILDING  
 BASEMENT  
 ELECT DEMO PLAN

PROJECT NO:  
 MK-2025-XXX  
 FILE NO:  
 PBE-25-03  
 DATE: MAY 2025  
 SCALE: AS NOTED  
 DRAWN BY: IE  
 CHECKED BY: MSK  
 DRAWING NO:  
**E3**



GENERAL NOTES:  
 CONTRACTOR TO CHECK DRAWINGS AND VERIFY DIMENSIONS ON THE JOB.  
 REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION OR SHOP FABRICATION.  
 DO NOT SCALE DRAWINGS.  
 ALL DRAWINGS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF PROBUILD ENGINEERING INC.  
 REPRODUCTION OF DRAWINGS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION FROM PROBUILD ENGINEERING INC.



APPROVED BY:  
 \_\_\_\_\_  
 \_\_\_\_\_

REV.	DATE	NAME	DESCRIPTION
01			
02			
03			
04	MAY 13, 26	MSK	ISSUED FOR TENDER ADD-01
05	MAR 26, 26	MSK	ISSUED FOR TENDER
06	NOV 21, 25	MSK	ISSUED FOR TENDER
07	MAY 23, 25	MSK	ISSUED FOR REVIEW

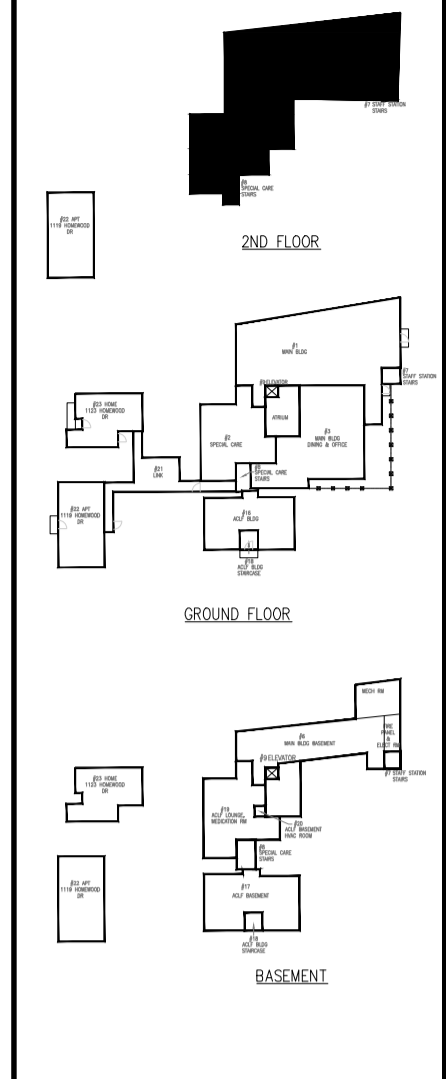
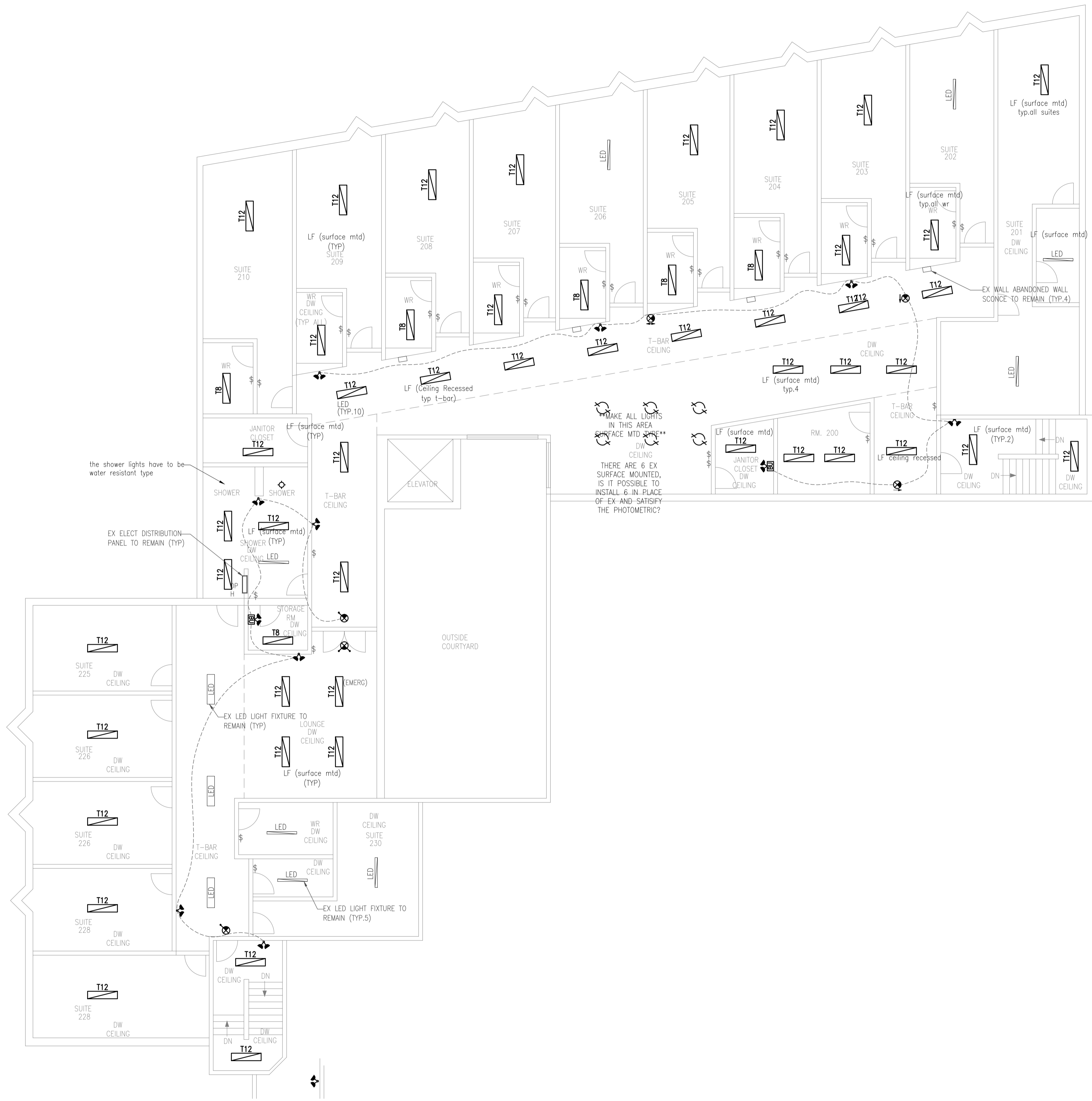


CONSULTANT:  
**PROBUILD ENGINEERING**  
 50 Shandon Dr.,  
 Toronto ON M1R 4M5, Canada  
 Tel: (416) 671-0054  
 www.ProBuildEngineering.ca  
 info@ProBuildEngineering.ca

PROJECT NAME:  
 BUILDING UPGRADES  
 BETHANY RESIDENCE  
 2387 INDUSTRIAL ST.  
 BURLINGTON ON

DRAWING TITLE:  
 MAIN BUILDING GF  
 ELECT DEMO PLAN

PROJECT NO:  
 MK-2025-XXX  
 FILE NO:  
 PBE-25-03  
 DATE: MAY 2025  
 SCALE: AS NOTED  
 DRAWN BY: IE  
 CHECKED BY: MSK  
 DRAWING NO:  
**E4**



GENERAL NOTES:  
 CONTRACTOR TO CHECK DRAWINGS AND VERIFY DIMENSIONS ON THE JOB.  
 REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION OR SHOP FABRICATION.  
 DO NOT SCALE DRAWINGS.  
 ALL DRAWINGS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF PROBUILD ENGINEERING INC.  
 REPRODUCTION OF DRAWINGS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION FROM PROBUILD ENGINEERING INC.



APPROVED BY:

REV.	DATE	NAME	DESCRIPTION
04	MAY 13, 2025	MSK	ISSUED FOR TENDER ADD-0
03	MAR 26, 2025	MSK	ISSUED FOR TENDER
02	NOV 21, 2024	MSK	ISSUED FOR TENDER
01	MAY 23, 2024	MSK	ISSUED FOR REVIEW

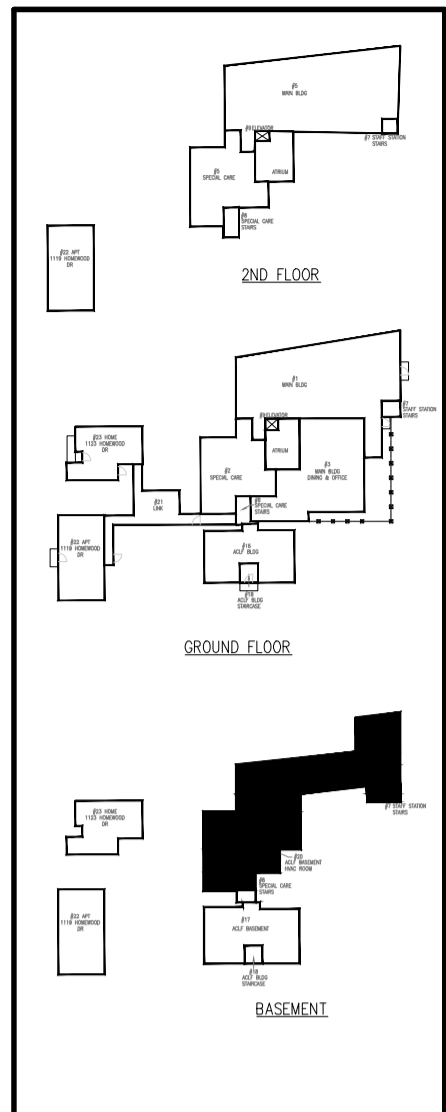
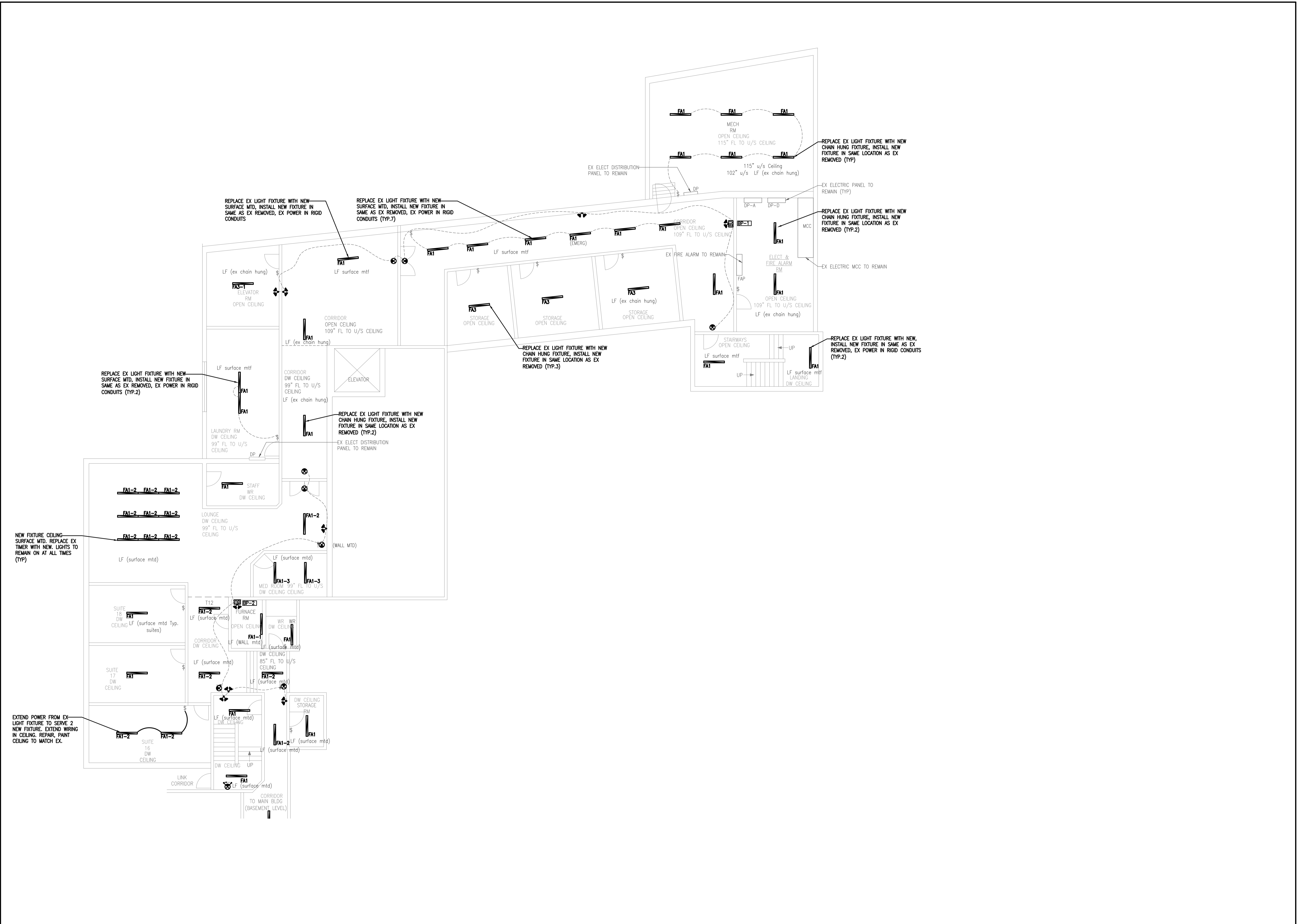


CONSULTANT:  
**PROBUILD ENGINEERING**  
 50 Shandon Dr.,  
 Toronto ON M1R 4M5, Canada  
 Tel: (416) 671-0054  
 www.ProBuildEngineering.ca  
 info@ProBuildEngineering.ca

PROJECT NAME:  
 BUILDING UPGRADES  
 BETHANY RESIDENCE  
 2387 INDUSTRIAL ST.  
 BURLINGTON ON

DRAWING TITLE:  
 MAIN BUILDING SF  
 ELECT DEMO PLAN

PROJECT NO:  
 MK-2025-XXX  
 FILE NO:  
 PBE-25-03  
 DATE: MAY 2025  
 SCALE: AS NOTED  
 DRAWN BY: IE  
 CHECKED BY: MSK  
 DRAWING NO:  
**E5**



GENERAL NOTES:  
 CONTRACTOR TO CHECK DRAWINGS AND VERIFY DIMENSIONS ON THE JOB.  
 REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION OR SHOP FABRICATION.  
 DO NOT SCALE DRAWINGS.  
 ALL DRAWINGS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF PROBUILD ENGINEERING INC.  
 REPRODUCTION OF DRAWINGS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION FROM PROBUILD ENGINEERING INC.



APPROVED BY:  
 \_\_\_\_\_  
 \_\_\_\_\_

REV.	DATE	NAME	DESCRIPTION
01	MAY 23 2025	MSK	ISSUED FOR REVIEW
02	MAY 23 2025	MSK	ISSUED FOR TENDER
03	NOV 27 2024	MSK	ISSUED FOR TENDER
04	MAY 13 2026	MSK	ISSUED FOR TENDER ADD-0

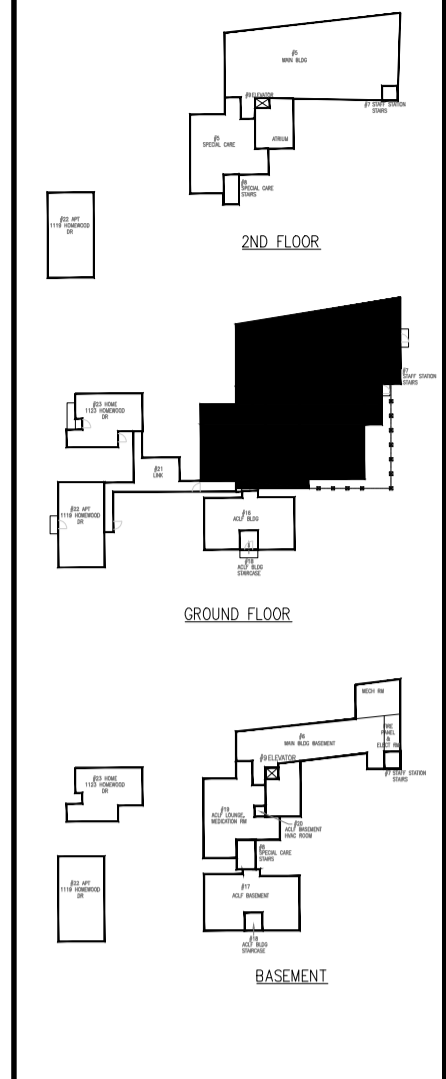


CONSULTANT:  
**PROBUILD ENGINEERING**  
 50 Shandon Dr.,  
 Toronto ON M1R 4M5, Canada  
 Tel: (416) 671-0054  
 www.ProBuildEngineering.ca  
 info@ProBuildEngineering.ca

PROJECT NAME:  
 BUILDING UPGRADES  
 BETHANY RESIDENCE  
 2387 INDUSTRIAL ST.  
 BURLINGTON ON

DRAWING TITLE:  
 MAIN BUILDING  
 BASEMENT  
 ELECT NEW PLAN

PROJECT NO:  
 MK-2025-XXX  
 FILE NO:  
 PBE-25-03  
 DATE: MAY 2025  
 SCALE: AS NOTED  
 DRAWN BY: IE  
 CHECKED BY: MSK  
**E6**



GENERAL NOTES:  
 CONTRACTOR TO CHECK DRAWINGS AND VERIFY DIMENSIONS ON THE JOB.  
 REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION OR SHOP FABRICATION.  
 DO NOT SCALE DRAWINGS.  
 ALL DRAWINGS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF PROBUILD ENGINEERING INC.  
 REPRODUCTION OF DRAWINGS AND RELATED DOCUMENTS IN WHATEVER MANNER IS FORBIDDEN WITHOUT WRITTEN PERMISSION FROM PROBUILD ENGINEERING INC.



APPROVED BY:  
 \_\_\_\_\_  
 \_\_\_\_\_

REV.	DATE	NAME	DESCRIPTION
01			
02			
03			
04	MAY 13, 2025	MSK	ISSUED FOR TENDER ADD-01
05	MAR 26, 2025	MSK	ISSUED FOR TENDER
06	NOV 27, 2024	MSK	ISSUED FOR TENDER
07	MAY 23, 2024	MSK	ISSUED FOR REVIEW

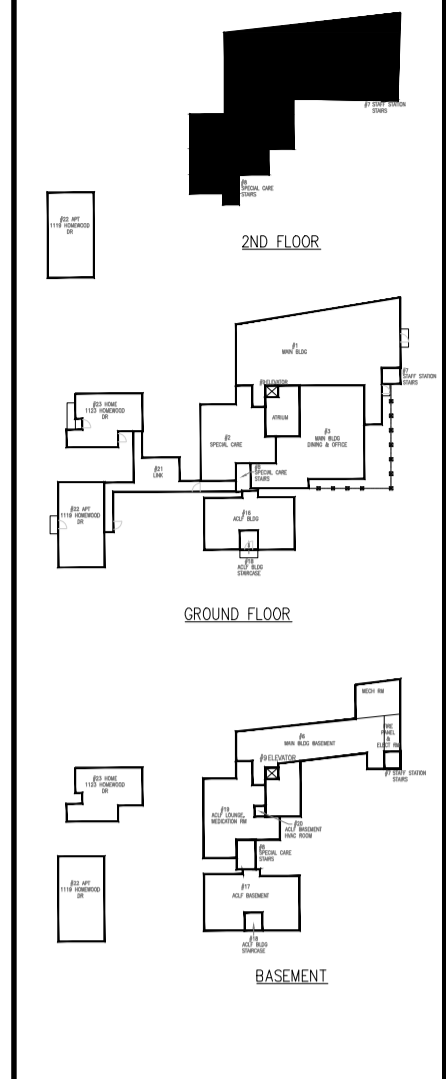


CONSULTANT:  
**PROBUILD ENGINEERING**  
 50 Shandon Dr.,  
 Toronto ON M1R 4M5, Canada  
 Tel: (416) 671-0054  
 www.ProBuildEngineering.ca  
 info@ProBuildEngineering.ca

PROJECT NAME:  
 BUILDING UPGRADES  
 BETHANY RESIDENCE  
 2387 INDUSTRIAL ST.  
 BURLINGTON ON

DRAWING TITLE:  
 MAIN BUILDING GF  
 ELECT NEW PLAN

PROJECT NO:  
 MK-2025-XXX  
 FILE NO:  
 PBE-25-03  
 DATE: MAY 2025  
 SCALE: AS NOTED  
 DRAWN BY: IE  
 CHECKED BY: MSK  
 DRAWING NO:  
**E7**



GENERAL NOTES:  
 CONTRACTOR TO CHECK DRAWINGS AND VERIFY DIMENSIONS ON THE JOB.  
 REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION OR SHOP FABRICATION.  
 DO NOT SCALE DRAWINGS.  
 ALL DRAWINGS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF PROBUILD ENGINEERING INC.  
 REPRODUCTION OF DRAWINGS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION FROM PROBUILD ENGINEERING INC.



APPROVED BY:

REV.	DATE	NAME	DESCRIPTION
01			
02			
03			
04	MAY 13, 26	MSK	ISSUED FOR TENDER ADD-0
05	MAR 26, 26	MSK	ISSUED FOR TENDER
06	NOV 21, 25	MSK	ISSUED FOR TENDER
07	MAY 23, 25	MSK	ISSUED FOR REVIEW



CONSULTANT:  
**PROBUILD ENGINEERING**  
 50 Shandon Dr.,  
 Toronto ON M1R 4M5, Canada  
 Tel: (416) 671-0054  
 www.ProBuildEngineering.ca  
 info@ProBuildEngineering.ca

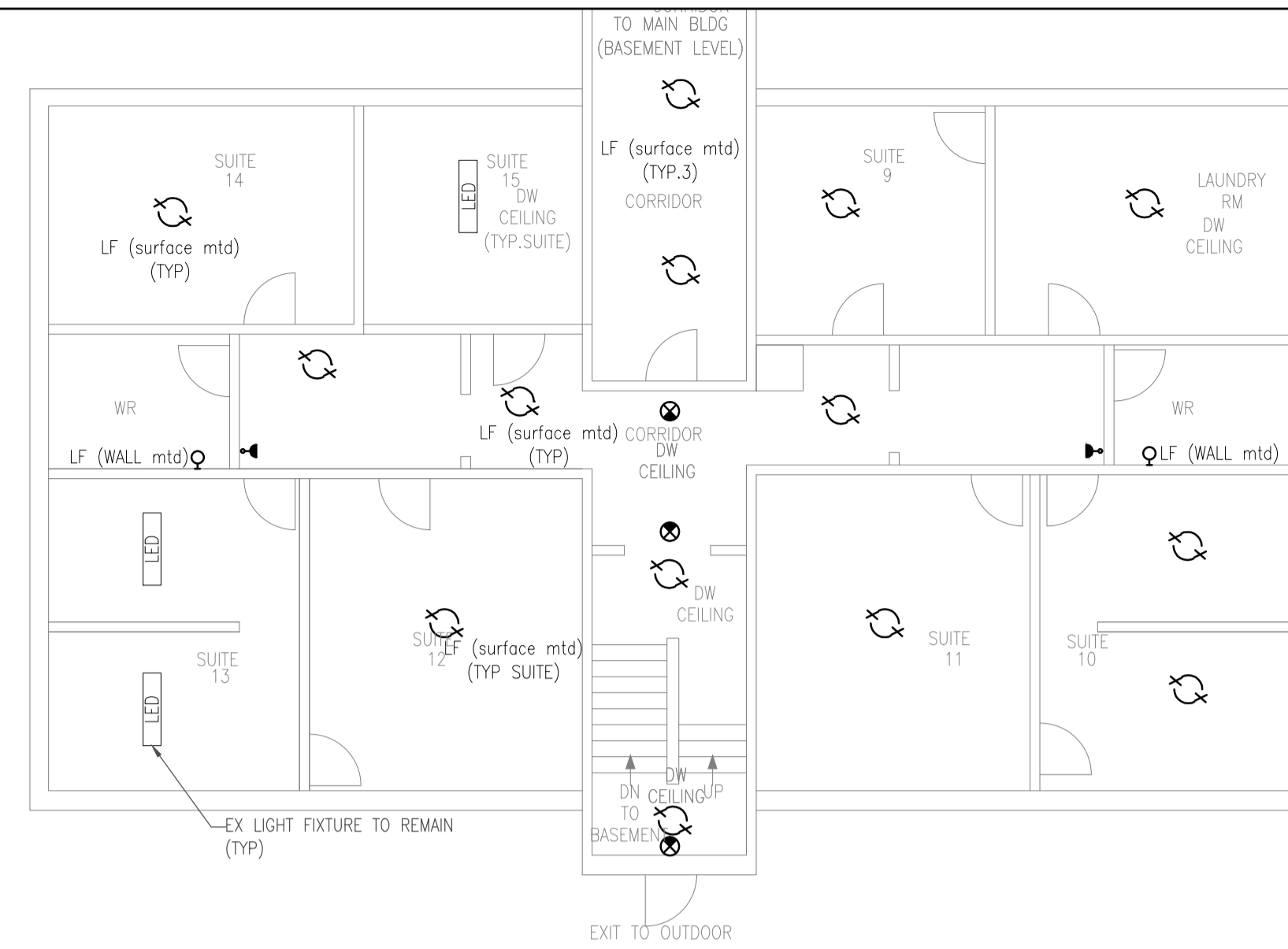
PROJECT NAME:  
 BUILDING UPGRADES  
 BETHANY RESIDENCE  
 2387 INDUSTRIAL ST.  
 BURLINGTON ON

DRAWING TITLE:  
 MAIN BUILDING SF  
 ELECT NEW PLAN

PROJECT NO:  
 MK-2025-XXX  
 FILE NO:  
 PBE-25-03  
 DATE: MAY 2025  
 SCALE: AS NOTED  
 DRAWN BY: IE  
 CHECKED BY: MSK  
 DRAWING NO:  
**E8**



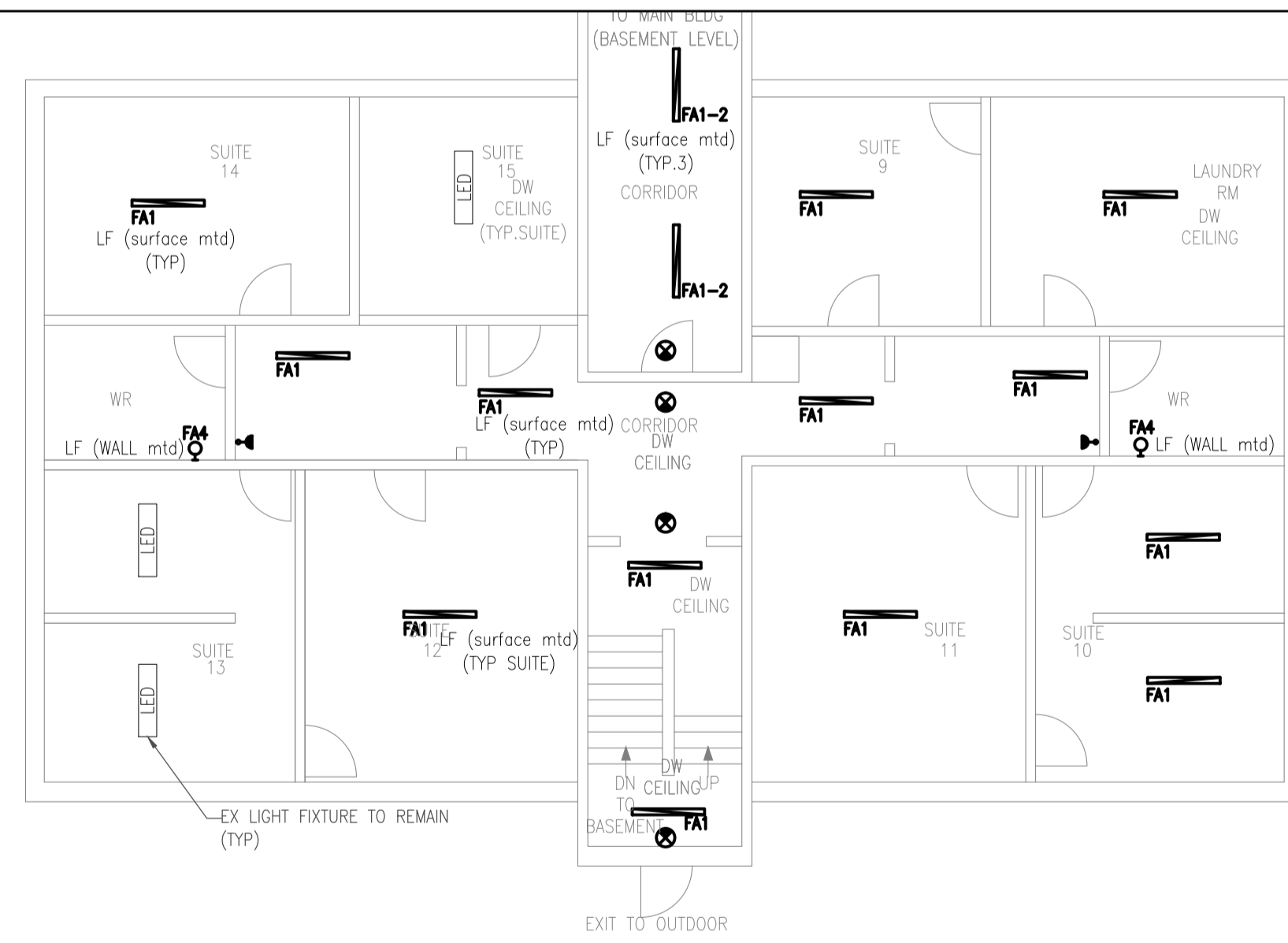
**FIRST FL DEMO PLAN**  
SCALE: 1/8" = 1'-0"



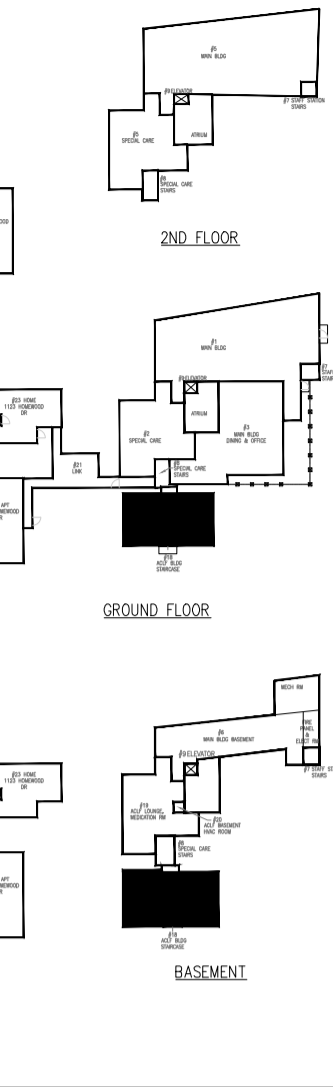
**BASEMENT FL DEMO PLAN**  
SCALE: 1/8" = 1'-0"



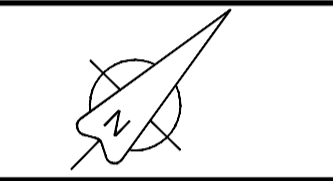
**FIRST FL NEW PLAN**  
SCALE: 1/8" = 1'-0"



**BASEMENT FL NEW PLAN**  
SCALE: 1/8" = 1'-0"



GENERAL NOTES:  
CONTRACTOR TO CHECK DRAWINGS AND VERIFY DIMENSIONS ON THE JOB.  
REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION OR SHOP FABRICATION.  
DO NOT SCALE DRAWINGS.  
ALL DRAWINGS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF PROBUILD ENGINEERING INC.  
REPRODUCTION OF DRAWINGS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION FROM PROBUILD ENGINEERING INC.



APPROVED BY:

REV.	DATE	NAME	DESCRIPTION
01			
02			
03			
04	MAY 13, 2025	MSK	ISSUED FOR TENDER ADD-03
05	MAR 26, 2025	MSK	ISSUED FOR TENDER
06	NOV 21, 2024	MSK	ISSUED FOR TENDER
07	MAY 23, 2025	MSK	ISSUED FOR REVIEW

REV.	DATE	NAME	DESCRIPTION
01			
02			
03			
04			
05			
06			
07			
08			
09			
10			



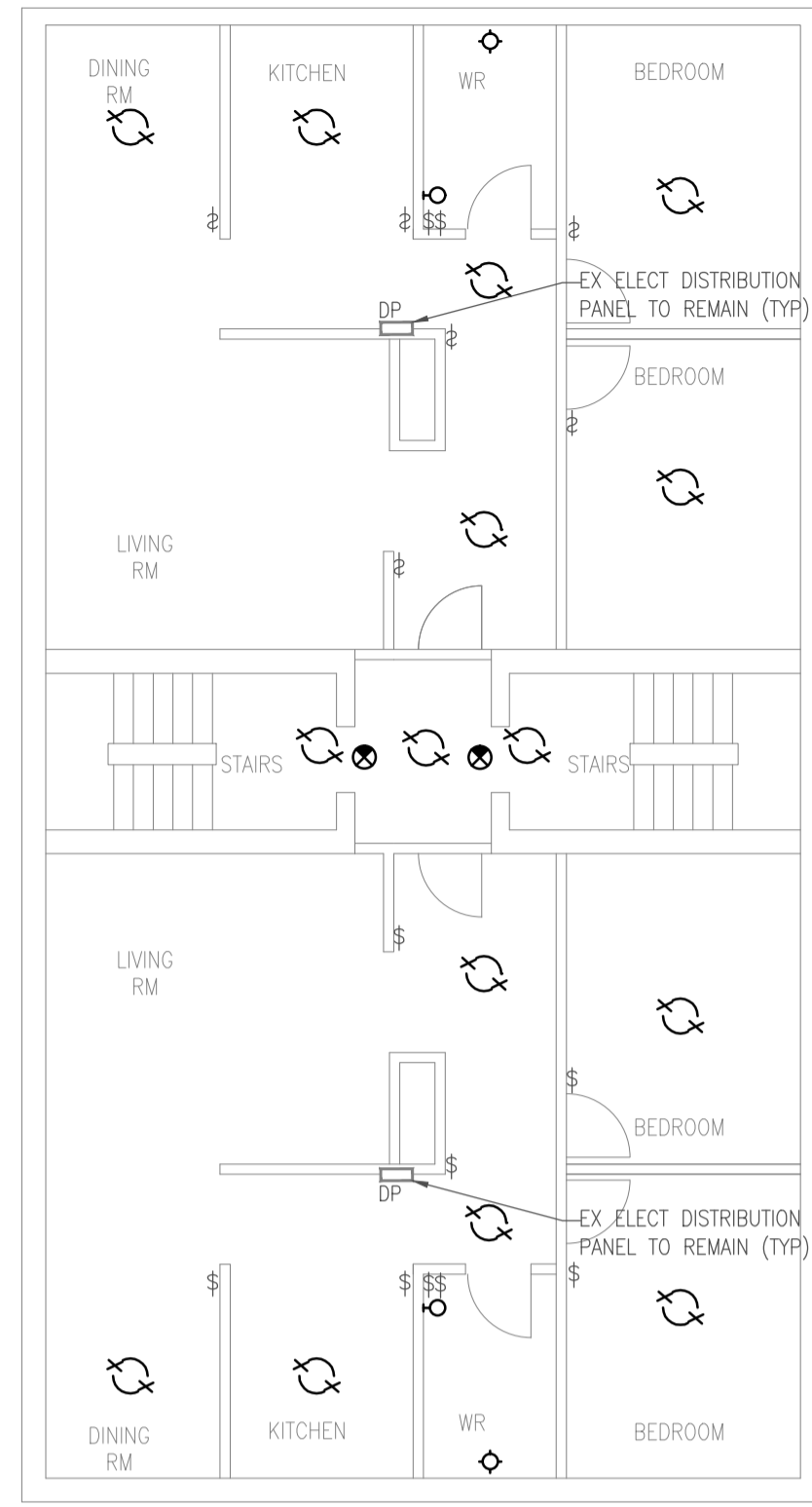
CONSULTANT:  
**PROBUILD ENGINEERING**  
50 Shandon Dr.,  
Toronto ON M1R 4M5, Canada  
Tel: (416) 671-0054  
www.ProBuildEngineering.ca  
info@ProBuildEngineering.ca

PROJECT NAME:  
BUILDING UPGRADES  
BETHANY RESIDENCE  
2387 INDUSTRIAL ST.  
BURLINGTON ON

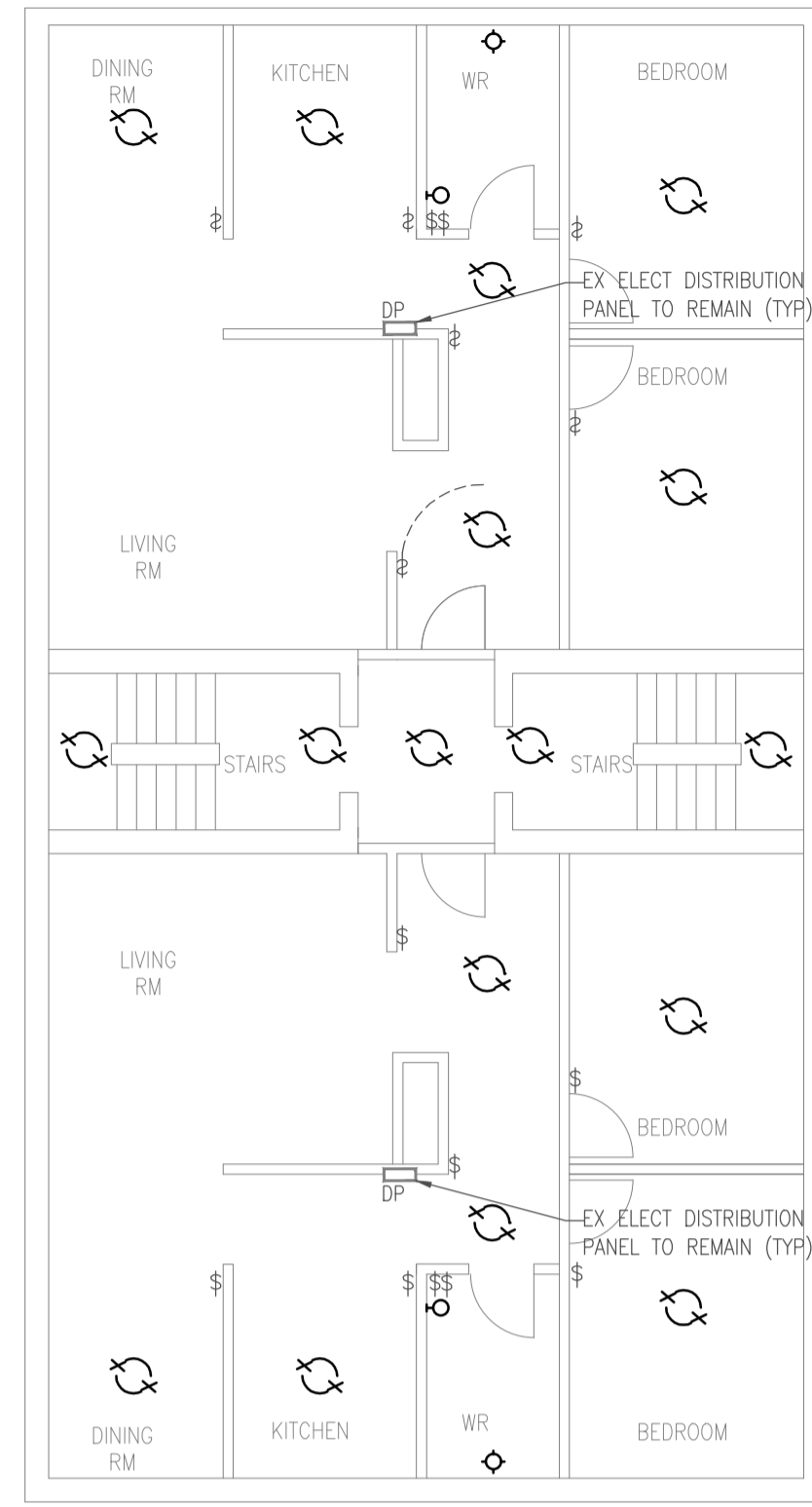
DRAWING TITLE:  
ACLF BLDG ELECT  
DEMO & NEW

PROJECT NO:  
MK-2025-XXX  
FILE NO:  
PBE-25-03

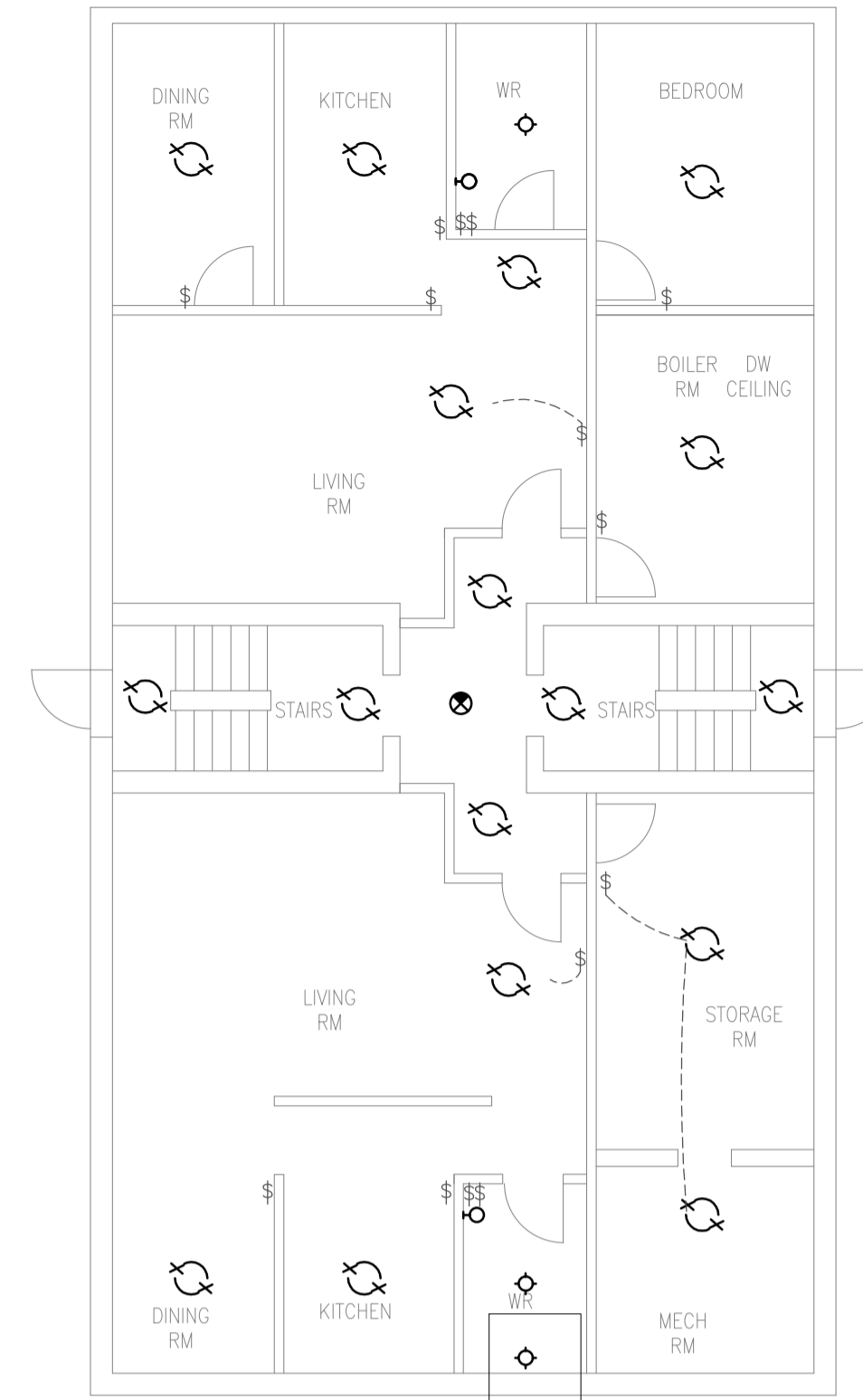
DATE: MAY 2025  
SCALE: AS NOTED  
DRAWN BY: IE  
CHECKED BY: MSK  
DRAWING NO:  
**E9**



SF



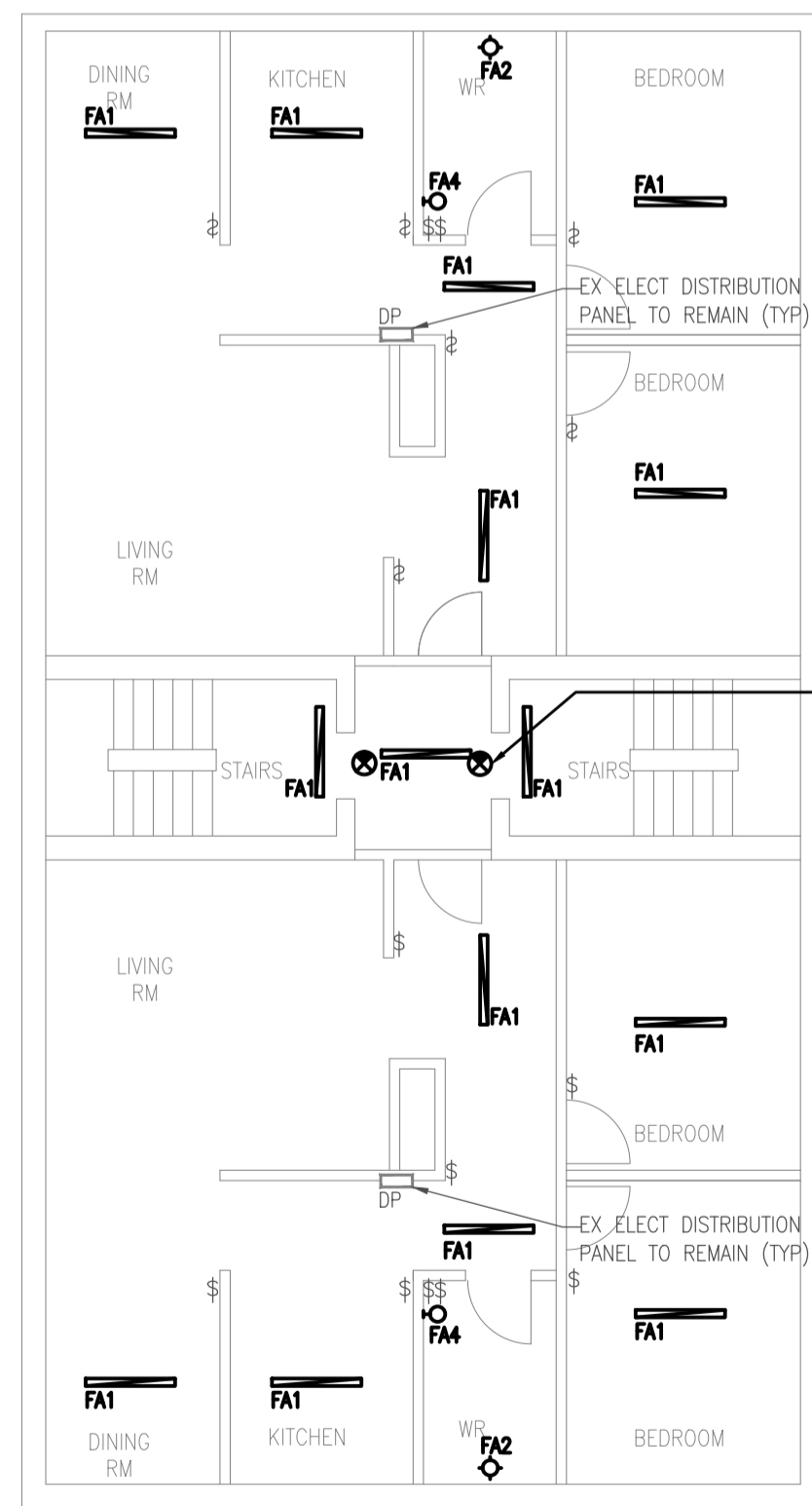
GF



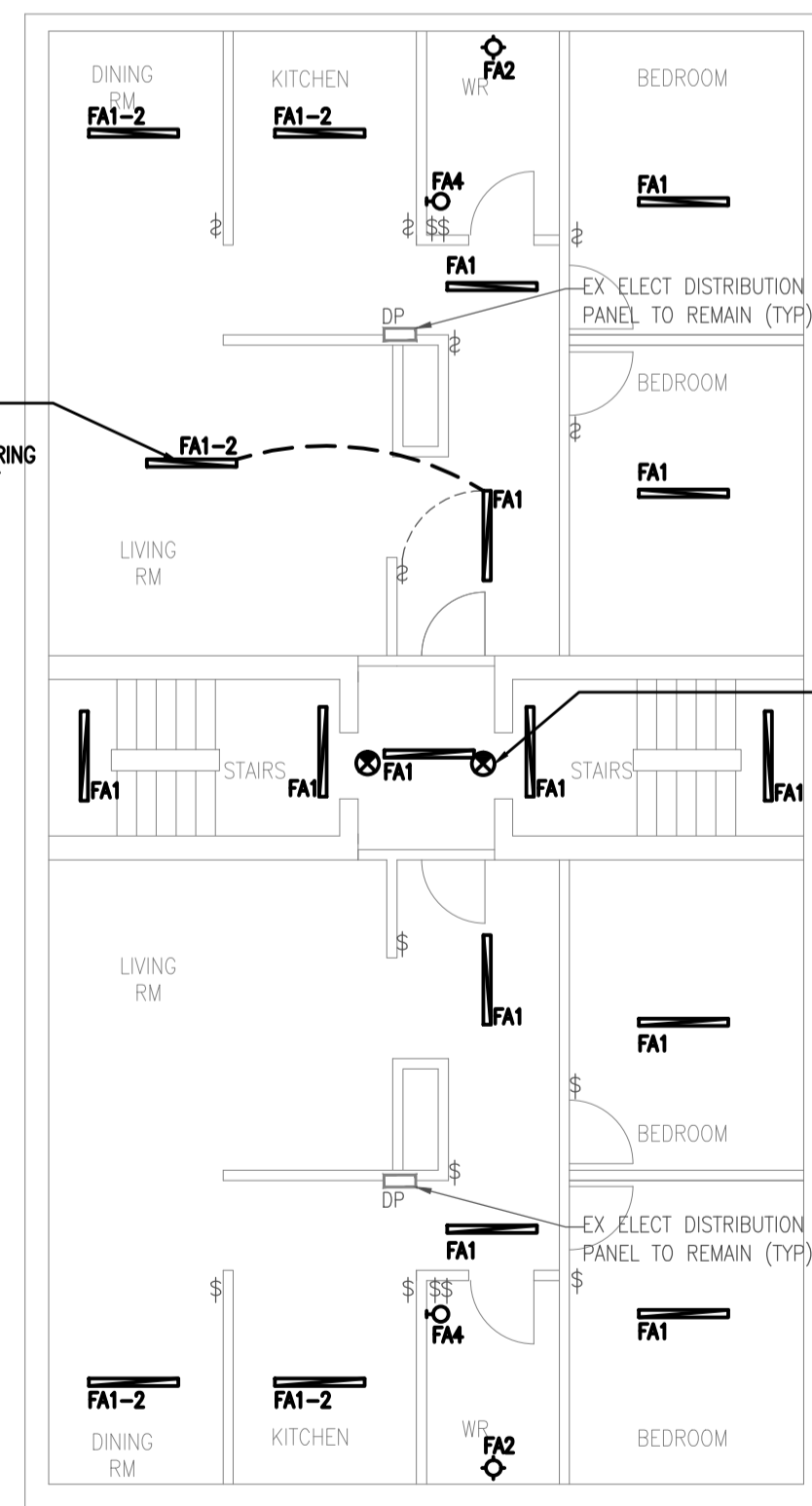
BASEMENT

ALL SPACES ARE DRYWALL CEILING  
ALL LF FIXTURES ARE TO BE SURFACE MTD.

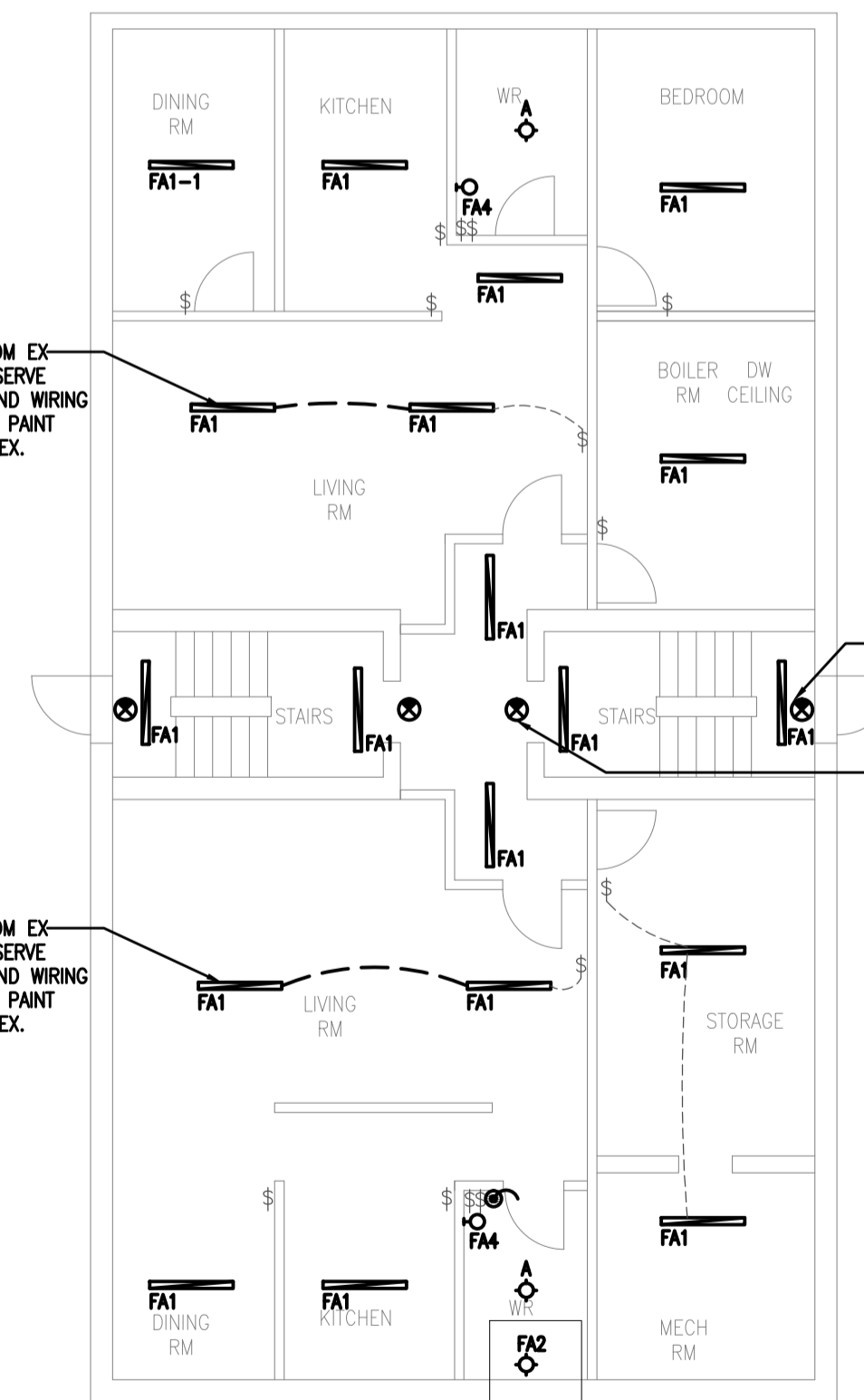
**DEMO PLAN**  
SCALE: 1/8" = 1'-0"



SF



GF



BASEMENT

ALL NEW EMERGENCY EXIT SIGNS TO HAVE EMERGENCY LIGHTS ATTACHED (TYP)

ALL SPACES ARE DRYWALL CEILING  
ALL LF FIXTURES ARE TO BE SURFACE MTD.

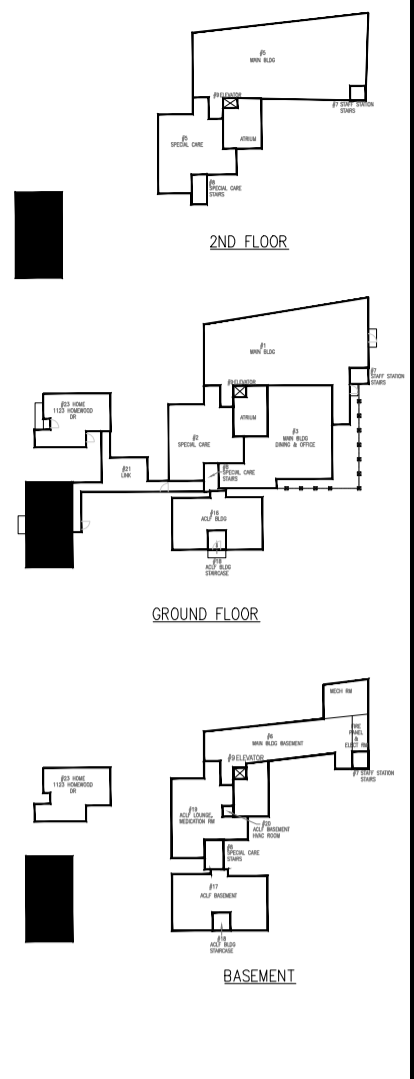
EXTEND POWER FROM EX LIGHT FIXTURE TO SERVE NEW FIXTURE. EXTEND WIRING IN CEILING. REPAIR, PAINT CEILING TO MATCH EX.

ALL NEW EMERGENCY EXIT SIGNS TO HAVE EMERGENCY LIGHTS ATTACHED (TYP)

EXTEND POWER FROM EX LIGHT FIXTURE TO SERVE NEW FIXTURE. EXTEND WIRING IN CEILING. REPAIR, PAINT CEILING TO MATCH EX.

EXTEND POWER FROM EX LIGHT FIXTURE TO SERVE NEW FIXTURE. EXTEND WIRING IN CEILING. REPAIR, PAINT CEILING TO MATCH EX.

INSTALL NEW EMERGENCY EXIT SIGN WITH BATTERY PACK. CONNECT POWER FROM EX ELECT ROUGH-IN (TYP.2)  
EXTEND WIRING FROM EX LOCATION TO NEW EMERGENCY EXIT SIGNS WITH BATTERY PACK WITH LIGHTS (TYP.2)



GENERAL NOTES:  
CONTRACTOR TO CHECK DRAWINGS AND VERIFY DIMENSIONS ON THE JOB.  
REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION OR SHOP FABRICATION.  
DO NOT SCALE DRAWINGS.  
ALL DRAWINGS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF PROBUILD ENGINEERING INC.  
REPRODUCTION OF DRAWINGS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION FROM PROBUILD ENGINEERING INC.



APPROVED BY:

REV.	DATE	NAME	DESCRIPTION
04	MAY 13, 2026	MSK	ISSUED FOR TENDER ADD-0
03	MAR 26, 2026	MSK	ISSUED FOR TENDER
02	NOV 27, 2025	MSK	ISSUED FOR TENDER
01	MAY 23, 2025	MSK	ISSUED FOR REVIEW



CONSULTANT:  
**PROBUILD ENGINEERING**  
50 Shandon Dr.,  
Toronto ON M1R 4M5, Canada  
Tel: (416) 671-0054  
www.ProBuildEngineering.ca  
info@ProBuildEngineering.ca

PROJECT NAME:  
BUILDING UPGRADES  
BETHANY RESIDENCE  
2387 INDUSTRIAL ST.  
BURLINGTON ON

DRAWING TITLE:  
#22 APT  
1119 HOMEWOOD DR  
ELECT PLAN

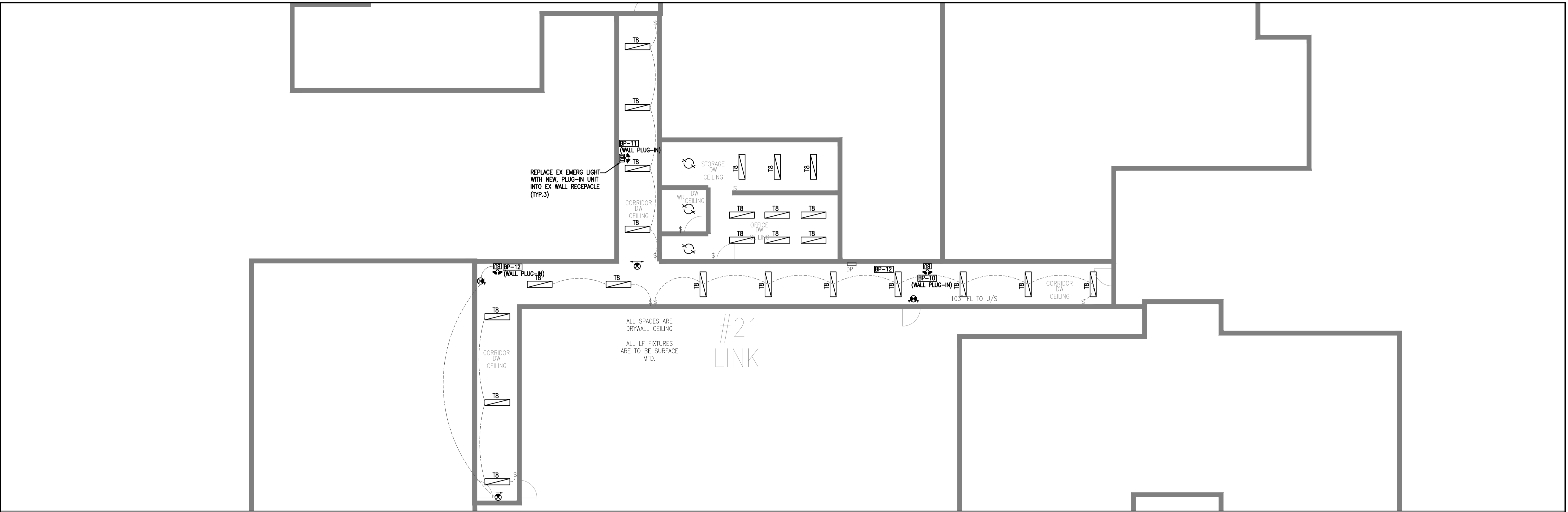
PROJECT NO:  
MK-2025-XXX  
FILE NO:  
PBE-25-03

DATE: MAY 2025  
SCALE: AS NOTED  
DRAWN BY: IE  
CHECKED BY: MSK

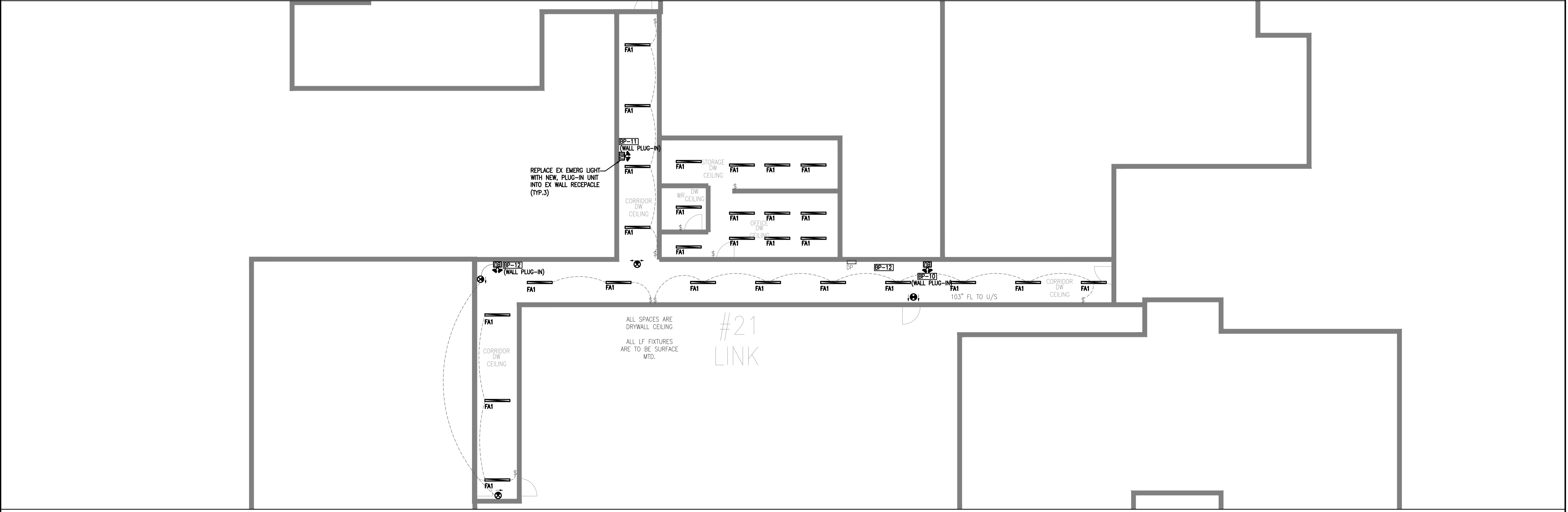
**NEW PLAN**  
SCALE: 1/8" = 1'-0"

**E10**

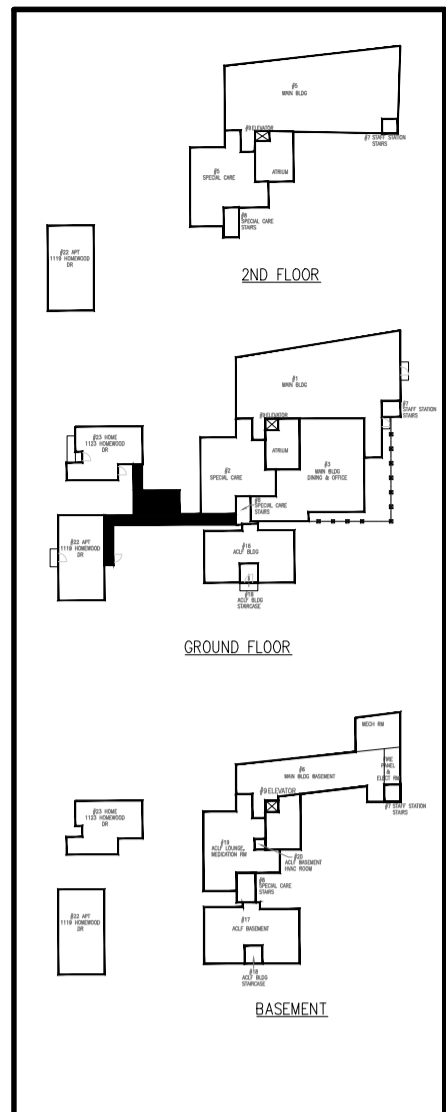




**DEMOPLAN**  
SCALE: 1/8" = 1'-0"



**NEW PLAN**  
SCALE: 1/8" = 1'-0"



GENERAL NOTES:  
CONTRACTOR TO CHECK DRAWINGS AND VERIFY DIMENSIONS ON THE JOB.  
REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION OR SHOP FABRICATION.  
DO NOT SCALE DRAWINGS.  
ALL DRAWINGS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF PROBUILD ENGINEERING INC.  
REPRODUCTION OF DRAWINGS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION FROM PROBUILD ENGINEERING INC.



APPROVED BY:

REV.	DATE	NAME	DESCRIPTION
04	MAY 13, 26	MSK	ISSUED FOR TENDER ADD-0
03	MAR 26, 26	MSK	ISSUED FOR TENDER
02	NOV 21, 25	MSK	ISSUED FOR TENDER
01	MAY 23, 25	MSK	ISSUED FOR REVIEW



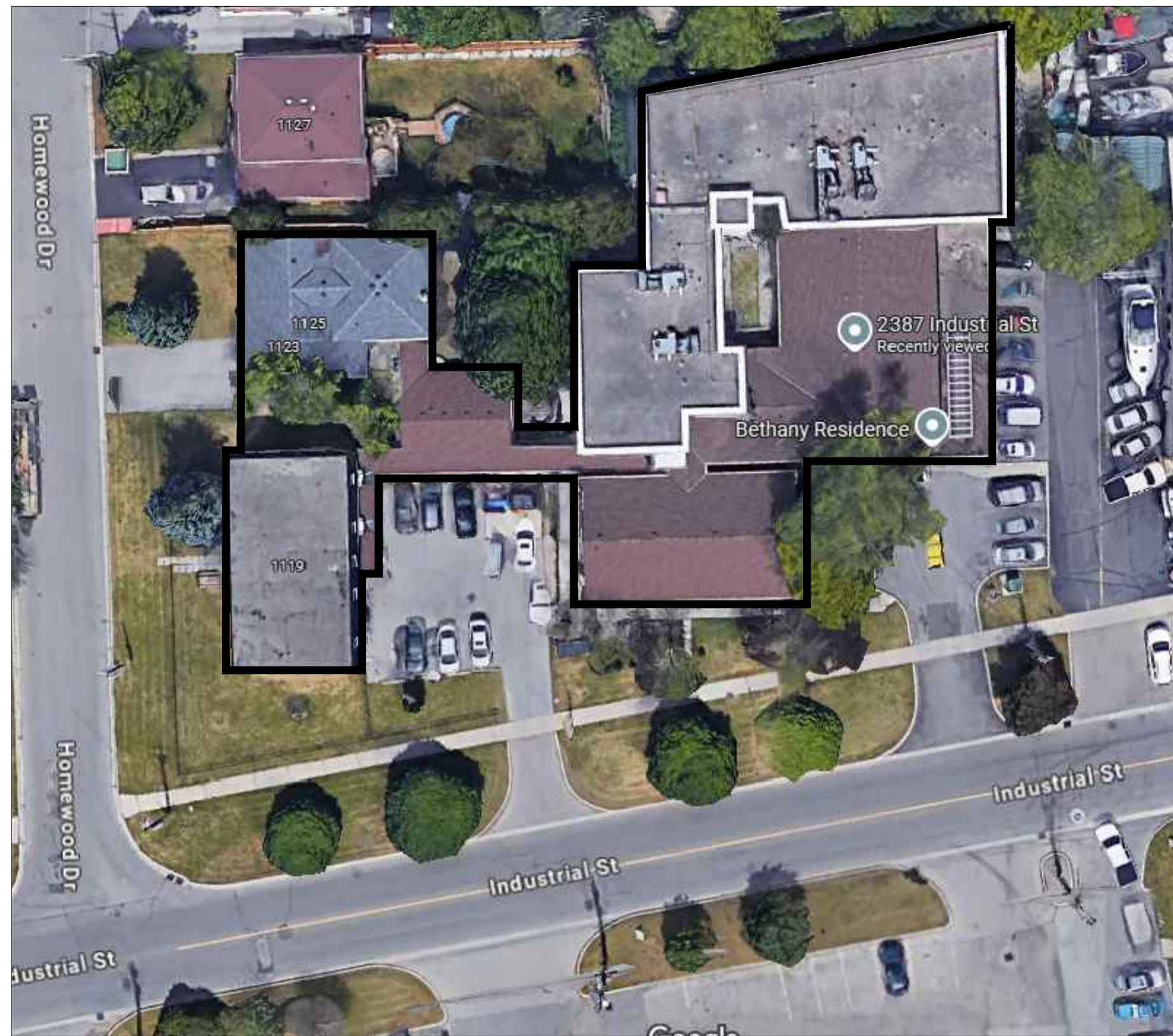
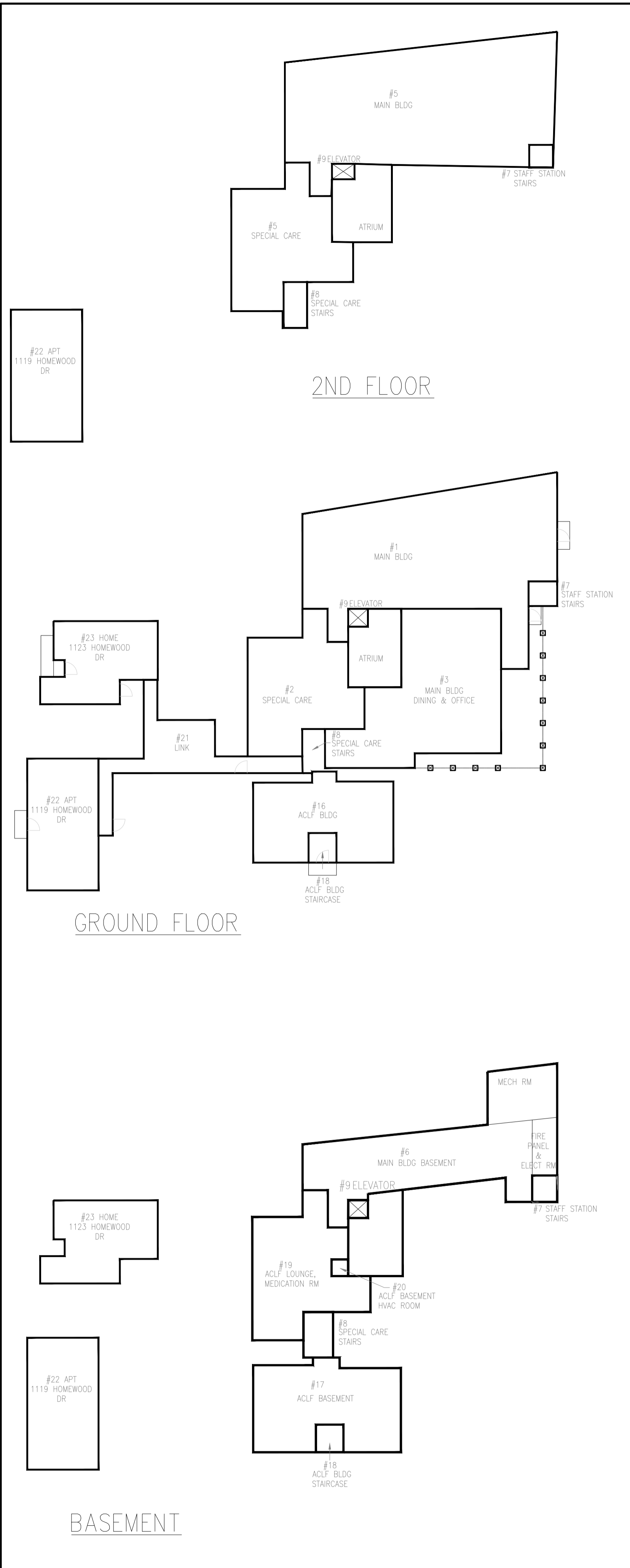
CONSULTANT:  
**PROBUILD ENGINEERING**  
50 Shandon Dr.,  
Toronto ON M1R 4M5, Canada  
Tel: (416) 671-0054  
www.ProBuildEngineering.ca  
info@ProBuildEngineering.ca

PROJECT NAME:  
BUILDING UPGRADES  
BETHANY RESIDENCE  
2387 INDUSTRIAL ST.  
BURLINGTON ON

DRAWING TITLE:  
#21 LINK  
(GF CORRIDOR)  
ELECT PLAN

PROJECT NO:  
MK-2025-XXX  
FILE NO:  
PBE-25-03

DATE: MAY 2025  
SCALE: AS NOTED  
DRAWN BY: IE  
CHECKED BY: MSK  
DRAWING NO:  
**E12**



**SITE PLAN**  
SCALE: NTS

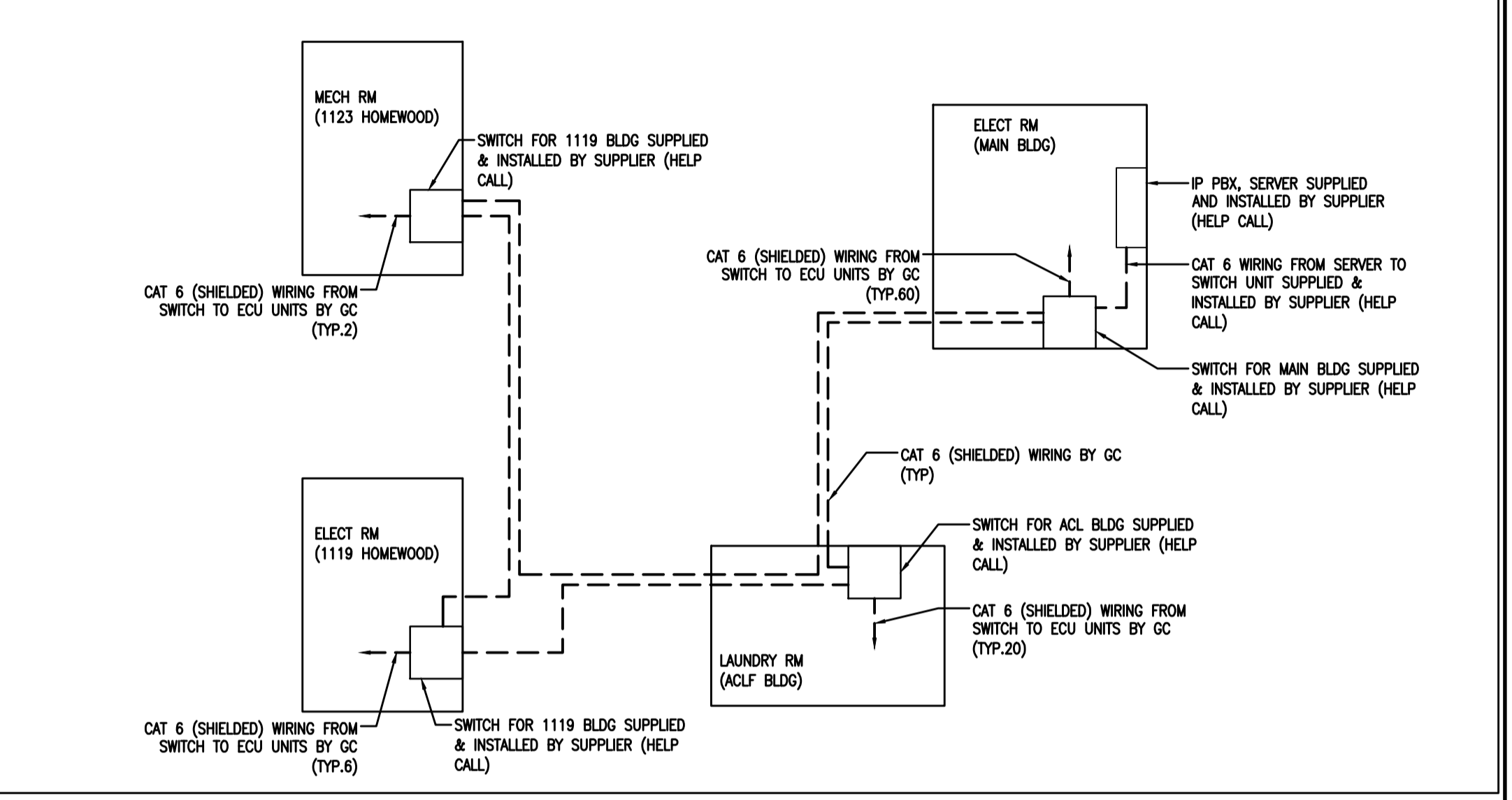
**NURSE CALL UNIT:**  
THE NURSE CALL UNIT IS TO BE PROVIDED BY THE SUPPLIER HELP CALL, CONTACT ENAMUL LATIFI, ENAMUL@HELPCALL.CA, 416-445-5712.

TWO-WAY NURSE CALL STATIONS ARE TO BE MALETT AP720 ANALOG EMERGENCY CALL UNIT (ECU) WIRELESS ENABLED, TWO-WAY SPEECH BETWEEN RESIDENT AND STAFF VIA IN-BUILT LOUDSPEAKER AND MICROPHONE. MESSENGER PLATFORM HOST 7001003, DESK PHONE, 4 POE SWITCH, MULTICELL DECT RUGGEDIZED HANDSET BLACK, MULTICELL DECT BASE STATION WHITE, MILNIX MINI SERVER (SERVER LICENSE), 4 PORT FXO UNIT, MPOWER 24V 6.5A POWER SUPPLY, 4 X UPS BATTERY BACKUP. ACTIVE POWER OVER ETHERNET (POE), WALL MOUNTING PLATE INCLUDED, UNIT IS TO BE WALL MOUNTED IN PLACE OF EXISTING WHERE POSSIBLE.

**WASHROOM WIRELESS PULL CORD UNIT:**  
PULL CORD UNIT IS TO BE BY HELP CALL MIBUS WIRELESS GEN 2 PULL CORD SURFACE MOUNT UNIT. SINGLE 3V CR2 BATTERY CELL.

- ALL DEVICES, EQUIPMENT AND LICENSES HAVE BEEN CONSIDERED FOR INSTALLATION OF THE MALETT SYSTEM WITH 2-WAY VOICE COMMUNICATION IN THE SUITES AND WIRELESS PULL CORD IN THE WASHROOMS (INCLUDING COMMON ONES). SCOPE INCLUDES SUPPLY OF ALL DEVICES AND EQUIPMENT, AND INSTALLATION AND TRAINING OF STAFF.
- SCOPE FOR CABLE WORKS:
  - ALL CABLING WORKS (CAT6) TO THE SUITES AND LINKS BETWEEN SWITCHES WILL BE IN THE SCOPE OF THE GENERAL CONTRACTOR.
  - CABLING (CAT6) TO DECT BASE STATIONS AND TO THE DESKPHONES INCLUDED IN THE SCOPE OF HELP CALL.
- THE ECU UNITS WILL BE CONNECTED TO THE CAT6 CABLES IN EACH SUITE (RUNNING THE CABLES TO SUITES IS GC SCOPE OF WORK).
- THE PULL STATIONS ARE WIRELESS OPTIONS THAT CONNECT WIRELESSLY TO THE EMERGENCY CALL UNITS (ECU).

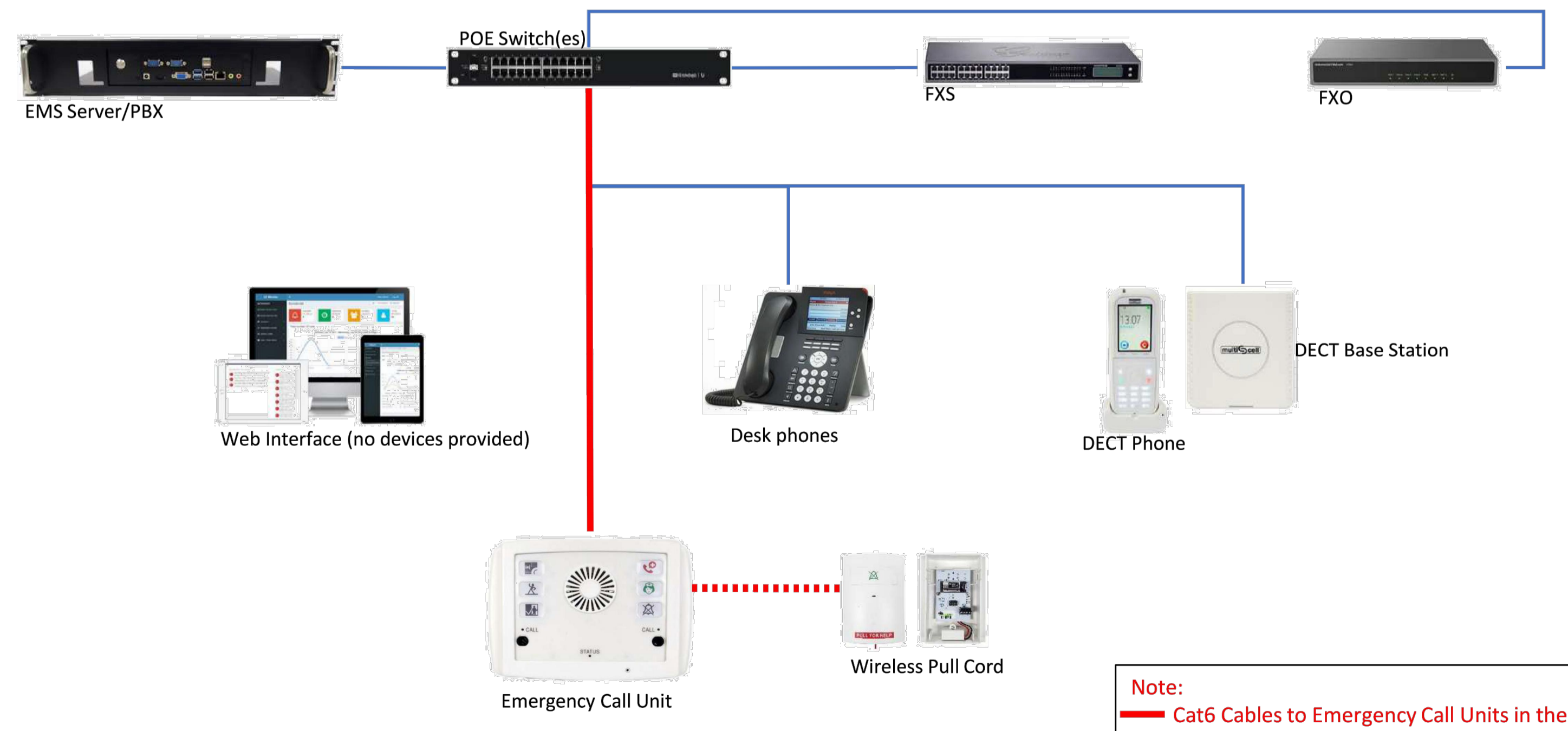
LEGEND	
■ RR	NEW NURSE CALL STATION PUSH BUTTON IN LOCATION OF EXISTING
■ N	NEW NURSE CALL STATION PUSH BUTTON IN NEW LOCATION
RR@	NEW NURSE CALL STATION PULL STRING IN LOCATION OF EXISTING
N@	NEW NURSE CALL STATION PULL STRING IN LOCATION OF EXISTING
EX	EXISTING TO REMAIN
R	EXISTING TO BE REMOVED OR RELOCATED
RL	EXISTING IN RELOCATED POSITION



**SITE GENERAL COMM WIRING PLAN**

## miAlert System with Emergency Call Units

(System to be installed by Help Call Inc.)



**Note:**  
— Cat6 Cables to Emergency Call Units in the suites  
To be done by General Contractor

**NURSE CALL WIRING DIAGRAM**

GENERAL NOTES:  
CONTRACTOR TO CHECK DRAWINGS AND VERIFY DIMENSIONS ON THE JOB.  
REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION OR SHOP FABRICATION.  
DO NOT SCALE DRAWINGS.  
ALL DRAWINGS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF PROBUILD ENGINEERING INC.  
REPRODUCTION OF DRAWINGS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION FROM PROBUILD ENGINEERING INC.

APPROVED BY:

REV.	DATE	NAME	DESCRIPTION
03	MAY 13, 2025	MSK	ISSUED FOR TENDER ADD-ON
02	MAR 26, 2025	MSK	ISSUED FOR TENDER
01	NOV 27, 2024	MSK	ISSUED FOR TENDER

CONSULTANT:

**PROBUILD ENGINEERING**

50 Shandon Dr.,  
Toronto ON M1R 4M5, Canada  
Tel: (416) 671-0054  
www.ProBuildEngineering.ca  
info@ProBuildEngineering.ca

PROJECT NAME:

BUILDING UPGRADES  
BETHANY RESIDENCE

2387 INDUSTRIAL ST.  
BURLINGTON ON

DRAWING TITLE:

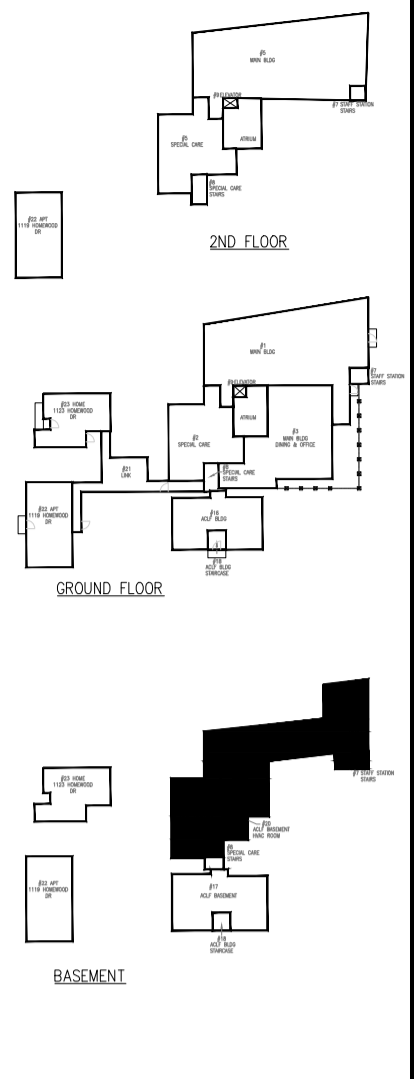
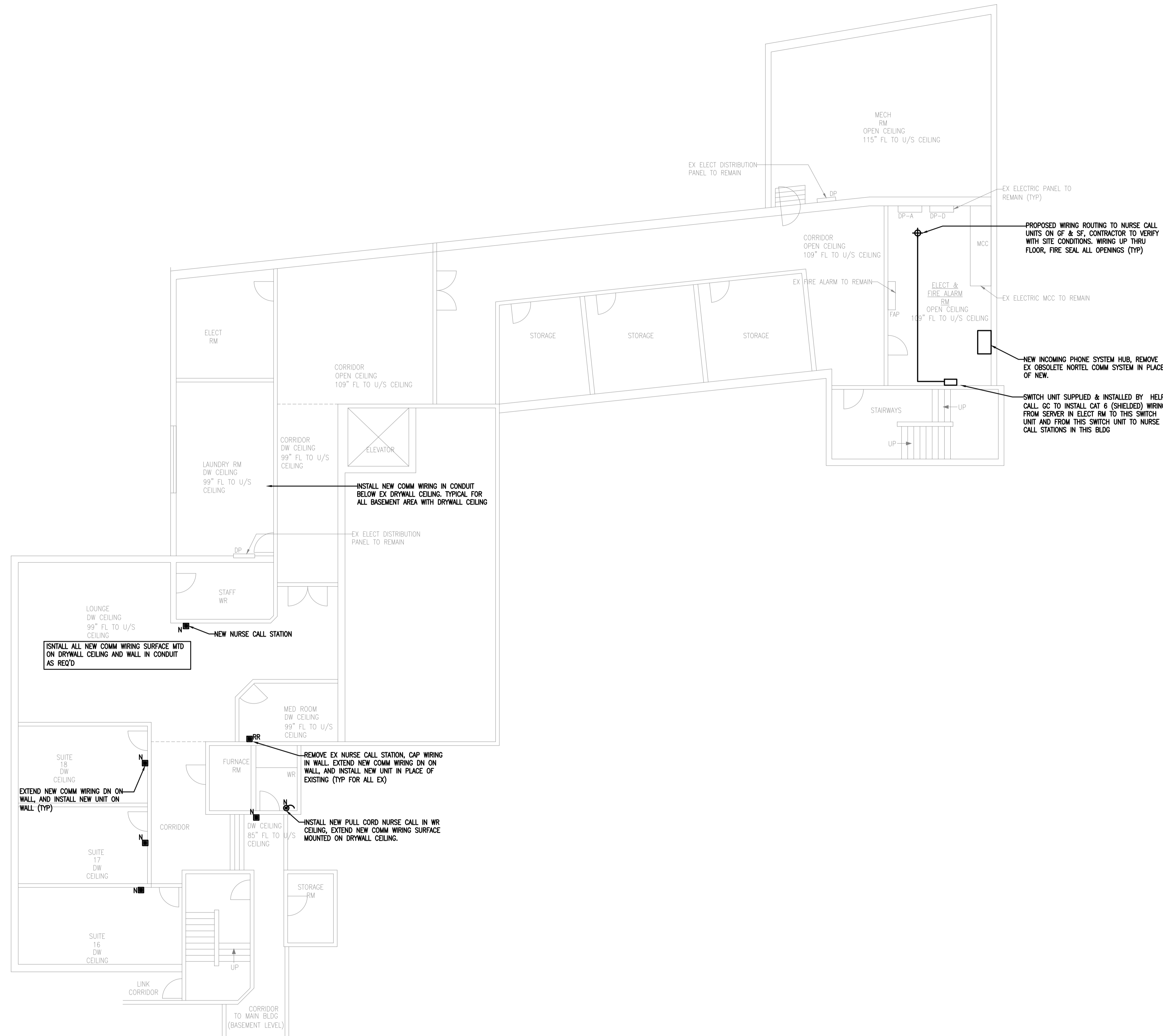
ELECT LEGEND,  
SPECIFICATIONS & KEY  
PLAN

PROJECT NO:  
MK-2025-03

FILE NO:  
PBE-25-03

DATE: MAY 2025  
SCALE: AS NOTED  
DRAWN BY: IE  
CHECKED BY: MSK

DRAWING NO:  
**EC1**



GENERAL NOTES:  
 CONTRACTOR TO CHECK DRAWINGS AND VERIFY DIMENSIONS ON THE JOB.  
 REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION OR SHOP FABRICATION.  
 DO NOT SCALE DRAWINGS.  
 ALL DRAWINGS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF PROBUILD ENGINEERING INC.  
 REPRODUCTION OF DRAWINGS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION FROM PROBUILD ENGINEERING INC.



APPROVED BY:



REV.	DATE	NAME	DESCRIPTION
03	MAY 13, 2025	MSK	ISSUED FOR TENDER ADD-03
02	MAR 26, 2025	MSK	ISSUED FOR TENDER
01	NOV 27, 2024	MSK	ISSUED FOR TENDER

CLIENT:

CONSULTANT:

**PROBUILD ENGINEERING**

50 Shandon Dr.,  
 Toronto ON M1R 4M5, Canada  
 Tel: (416) 671-0054  
 www.ProBuildEngineering.ca  
 info@ProBuildEngineering.ca

PROJECT NAME:

BUILDING UPGRADES  
 BETHANY RESIDENCE

2387 INDUSTRIAL ST.  
 BURLINGTON ON

DRAWING TITLE:

MAIN BUILDING  
 BASEMENT  
 ELECT COMM PLAN

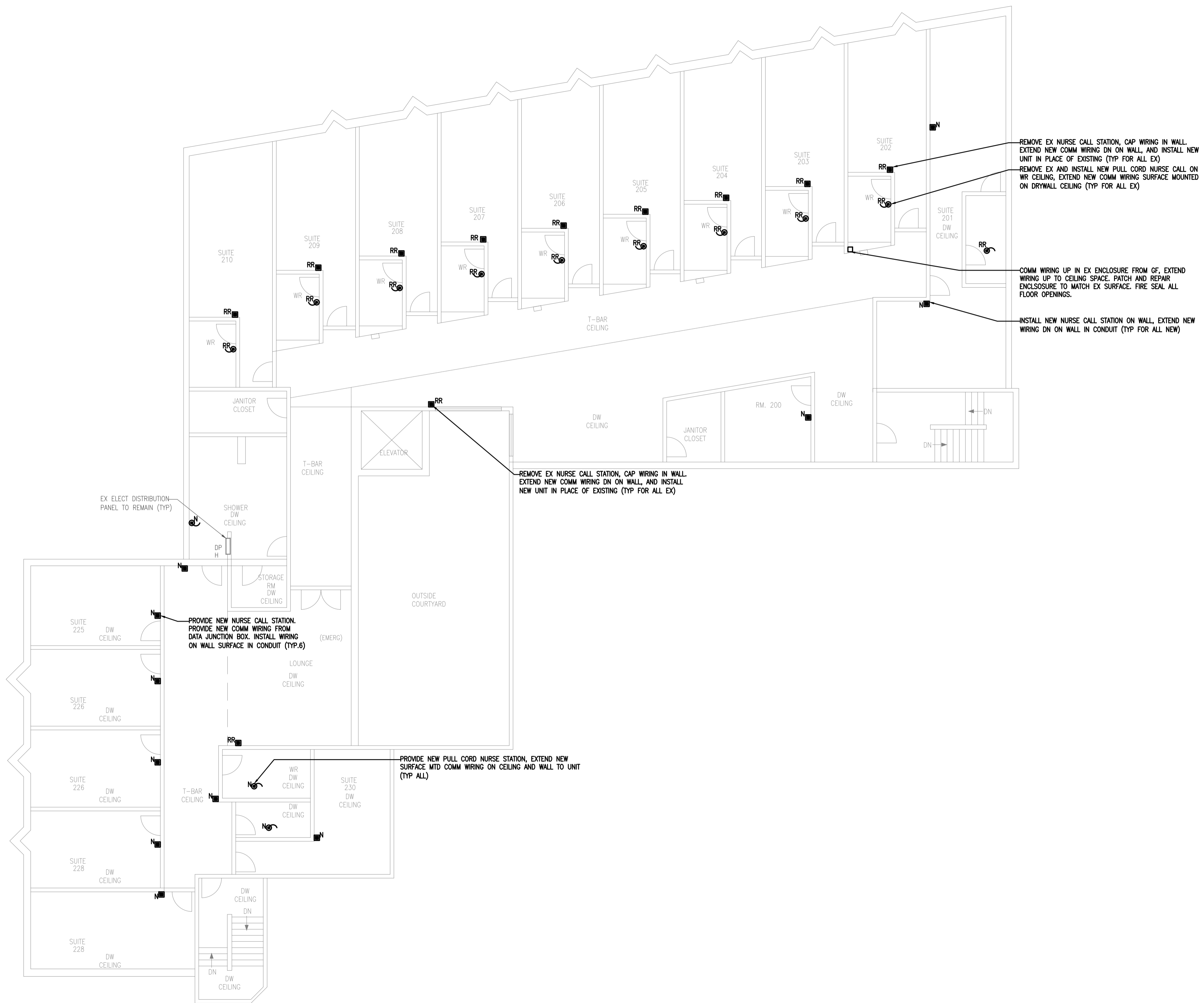
PROJECT NO:  
 MK-2025-03

FILE NO:  
 PBE-25-03

DATE: MAY 2025 DRAWING NO:  
 SCALE: AS NOTED  
 DRAWN BY: IE  
 CHECKED BY: MSK







REMOVE EX NURSE CALL STATION, CAP WIRING IN WALL. EXTEND NEW COMM WIRING DN ON WALL, AND INSTALL NEW UNIT IN PLACE OF EXISTING (TYP FOR ALL EX)  
 REMOVE EX AND INSTALL NEW PULL CORD NURSE CALL ON WR CEILING, EXTEND NEW COMM WIRING SURFACE MOUNTED ON DRYWALL CEILING (TYP FOR ALL EX)

COMM WIRING UP IN EX ENCLOSURE FROM GF, EXTEND WIRING UP TO CEILING SPACE. PATCH AND REPAIR ENCLOSURE TO MATCH EX SURFACE. FIRE SEAL ALL FLOOR OPENINGS.

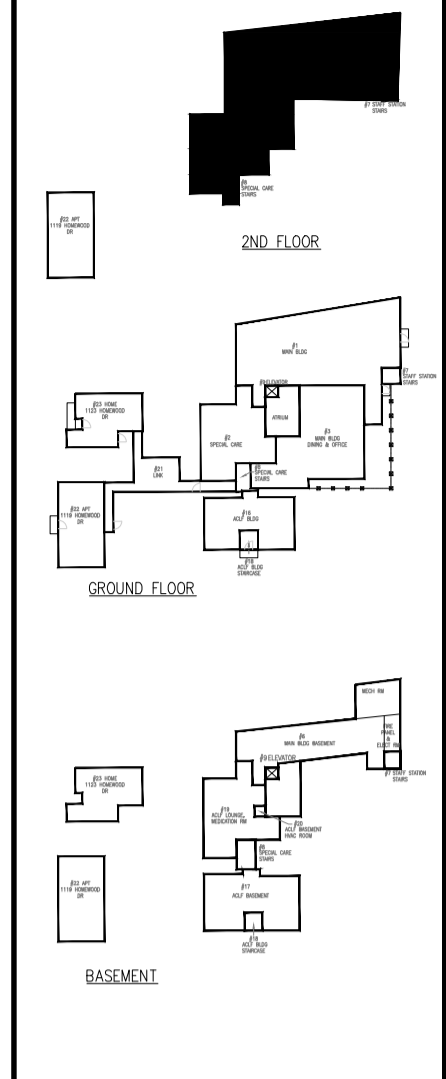
INSTALL NEW NURSE CALL STATION ON WALL, EXTEND NEW WIRING DN ON WALL IN CONDUIT (TYP FOR ALL NEW)

REMOVE EX NURSE CALL STATION, CAP WIRING IN WALL. EXTEND NEW COMM WIRING DN ON WALL, AND INSTALL NEW UNIT IN PLACE OF EXISTING (TYP FOR ALL EX)

PROVIDE NEW NURSE CALL STATION. PROVIDE NEW COMM WIRING FROM DATA JUNCTION BOX. INSTALL WIRING ON WALL SURFACE IN CONDUIT (TYP.6)

PROVIDE NEW PULL CORD NURSE STATION, EXTEND NEW SURFACE MTD COMM WIRING ON CEILING AND WALL TO UNIT (TYP ALL)

EX ELECT DISTRIBUTION PANEL TO REMAIN (TYP)



GENERAL NOTES:  
 CONTRACTOR TO CHECK DRAWINGS AND VERIFY DIMENSIONS ON THE JOB.  
 REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION OR SHOP FABRICATION.  
 DO NOT SCALE DRAWINGS.  
 ALL DRAWINGS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF PROBUILD ENGINEERING INC.  
 REPRODUCTION OF DRAWINGS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION FROM PROBUILD ENGINEERING INC.



APPROVED BY:  
  
 LICENSED PROFESSIONAL ENGINEER  
 MANPREET SINGH  
 1002015225  
 25-08-05  
 PROVINCE OF ONTARIO

REV.	DATE	NAME	DESCRIPTION
03	MAY 13, 2025	MSK	ISSUED FOR TENDER ADD-ON
02	MAR 26, 2025	MSK	ISSUED FOR TENDER
01	NOV 27, 2024	MSK	ISSUED FOR TENDER

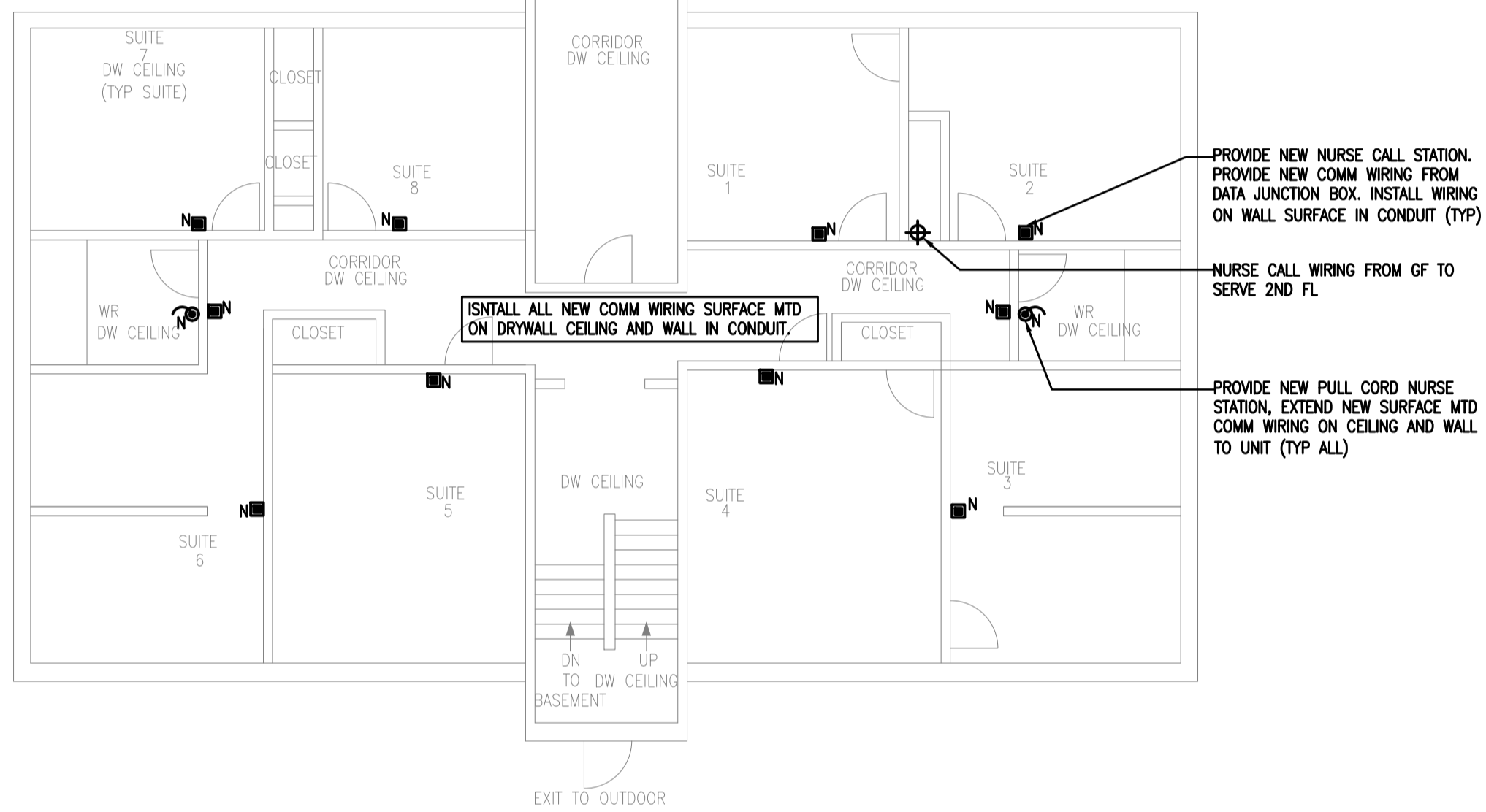
CLIENT:  
 CONSULTANT:

**PROBUILD ENGINEERING**  
 50 Shandon Dr.,  
 Toronto ON M1R 4M5, Canada  
 Tel: (416) 671-0054  
 www.ProBuildEngineering.ca  
 info@ProBuildEngineering.ca

PROJECT NAME:  
 BUILDING UPGRADES  
 BETHANY RESIDENCE  
 2387 INDUSTRIAL ST.  
 BURLINGTON ON

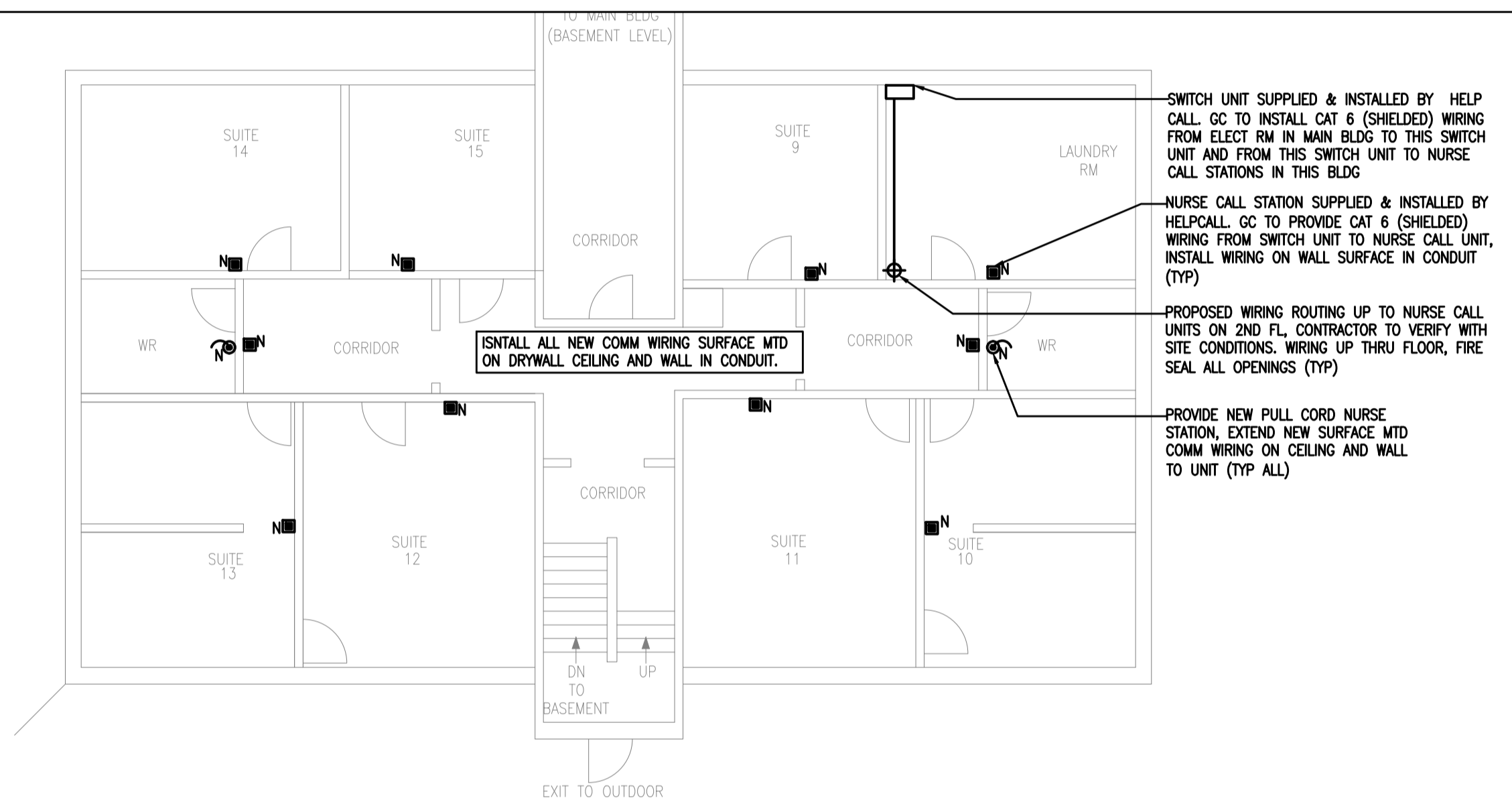
DRAWING TITLE:  
 MAIN BUILDING SF  
 ELECT COMM PLAN

PROJECT NO:  
 MK-2025-03  
 FILE NO:  
 PBE-25-03  
 DATE: MAY 2025  
 SCALE: AS NOTED  
 DRAWN BY: IE  
 CHECKED BY: MSK  
 DRAWING NO:  
**EC4**



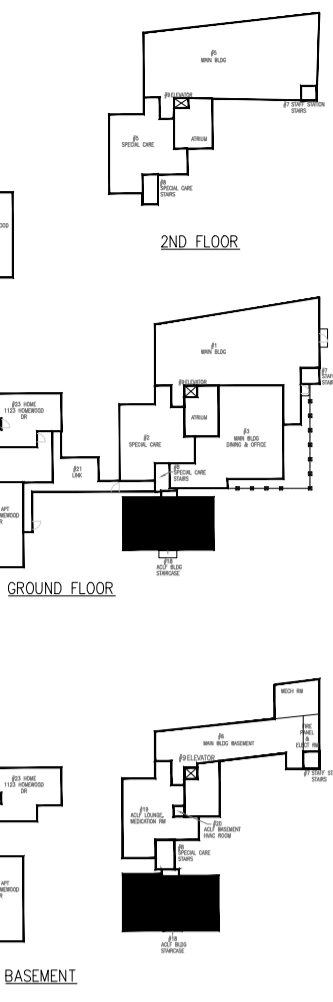
**FIRST FL NEW PLAN**

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



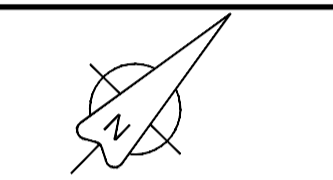
**BASEMENT FL NEW PLAN**

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



GENERAL NOTES:

CONTRACTOR TO CHECK DRAWINGS AND VERIFY DIMENSIONS ON THE JOB.  
 REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION OR SHOP FABRICATION.  
 DO NOT SCALE DRAWINGS.  
 ALL DRAWINGS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF PROBUILD ENGINEERING INC.  
 REPRODUCTION OF DRAWINGS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION FROM PROBUILD ENGINEERING INC.



APPROVED BY:



NO.	DATE	BY	DESCRIPTION
01			
02			
03			
04			
05			

REV.	DATE	NAME	DESCRIPTION
03	MAY 13, 2025	MSK	ISSUED FOR TENDER ADD-03
02	MAR 26, 2025	MSK	ISSUED FOR TENDER
01	NOV 27, 2024	MSK	ISSUED FOR TENDER

CLIENT:

CONSULTANT:

**PROBUILD ENGINEERING**  
 50 Shandon Dr.,  
 Toronto ON M1R 4M5, Canada  
 Tel: (416) 671-0054  
 www.ProBuildEngineering.ca  
 info@ProBuildEngineering.ca

PROJECT NAME:

BUILDING UPGRADES  
 BETHANY RESIDENCE  
 2387 INDUSTRIAL ST.  
 BURLINGTON ON

DRAWING TITLE:

ACLF BLDG  
 ELECT COMM PLAN

PROJECT NO.:

MK-2025-03

FILE NO.:

PBE-25-03

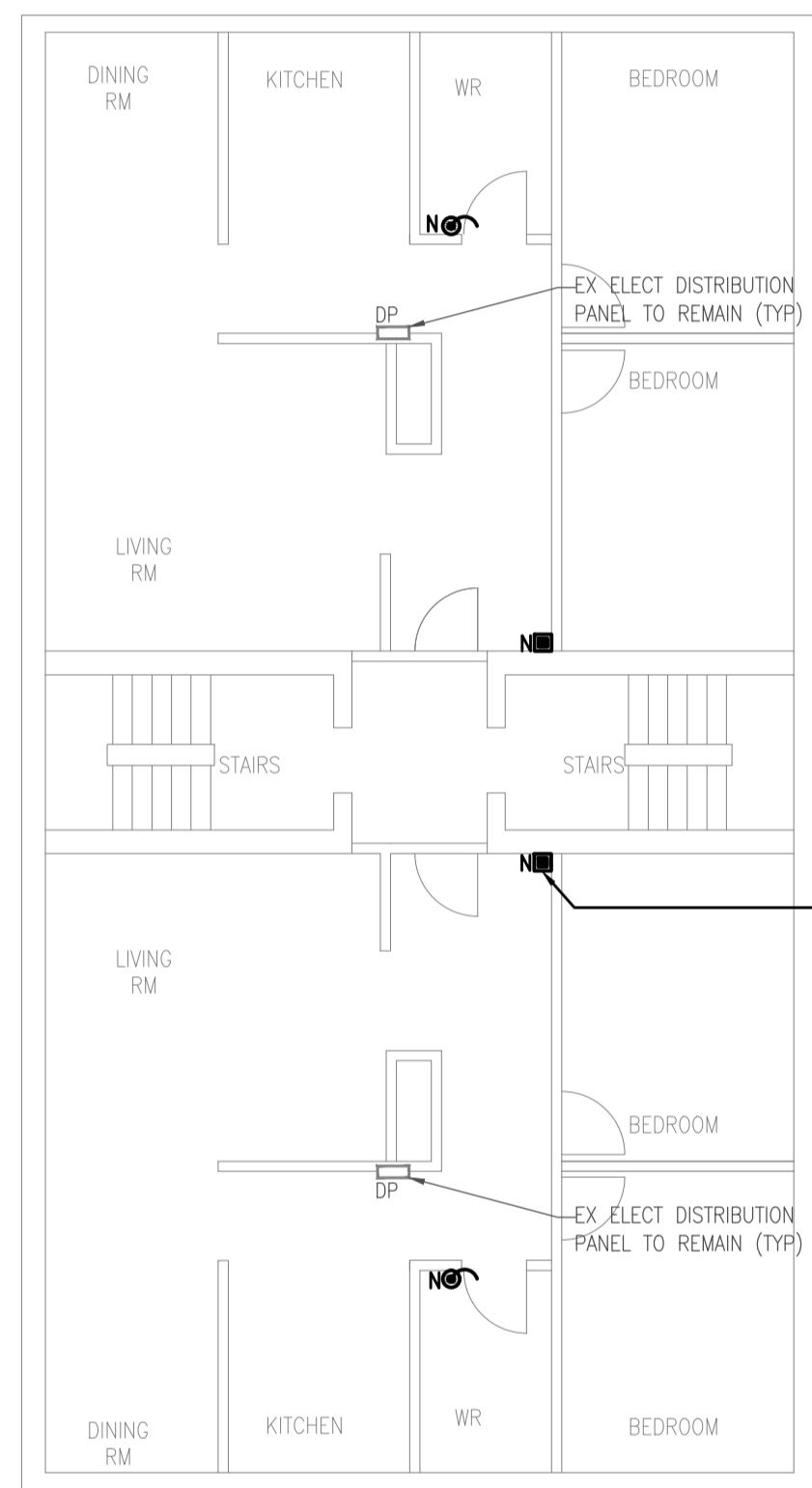
DATE: MAY 2025

SCALE: AS NOTED

DRAWN BY: IE

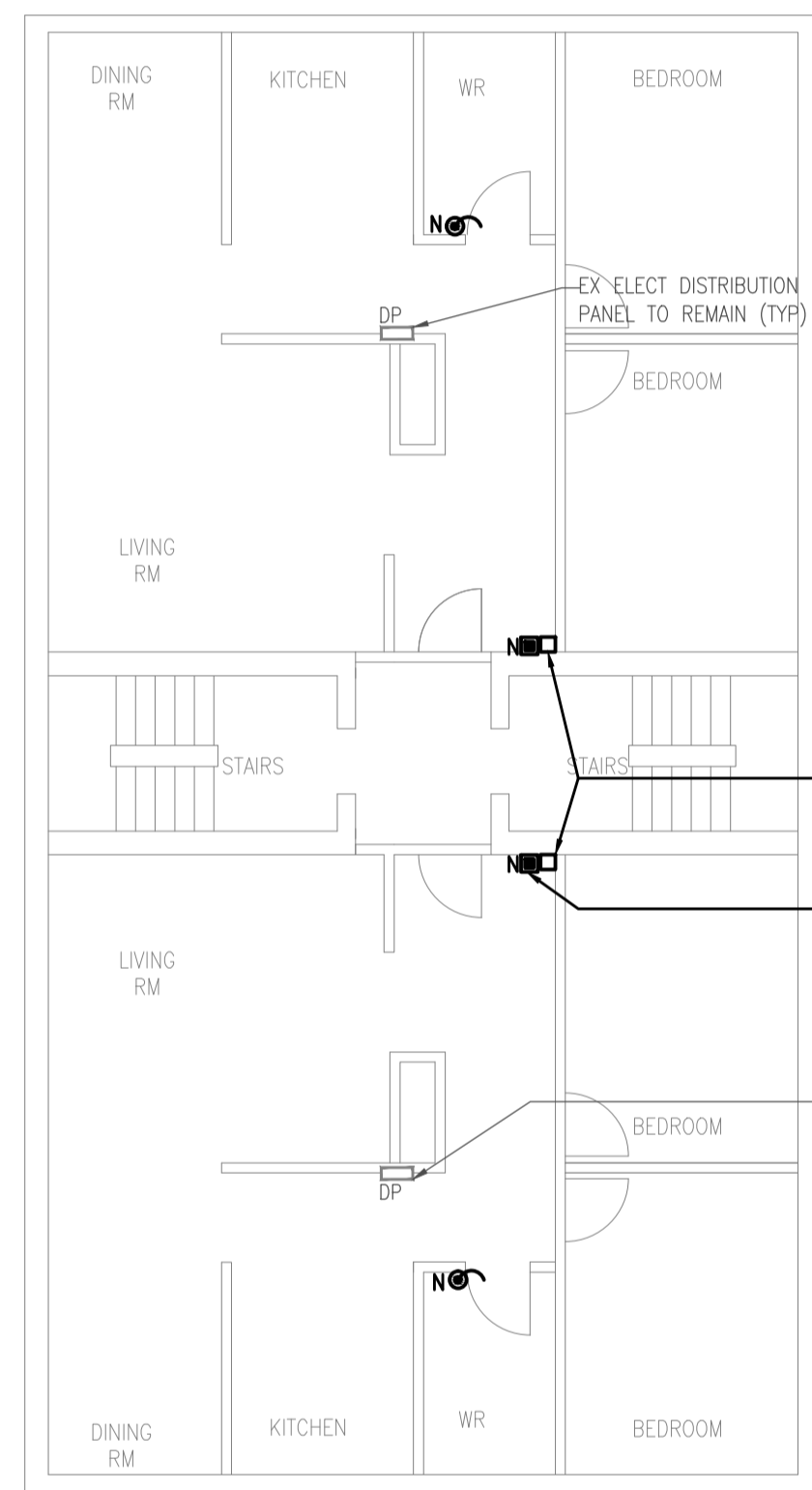
CHECKED BY: MSK





SF

NURSE CALL STATION SUPPLIED & INSTALLED BY HELPCALL. GC TO PROVIDE CAT 6 (SHIELDED) WIRING FROM SWITCH UNIT TO NURSE CALL UNIT, WIRING UP FROM FLOOR BELOW

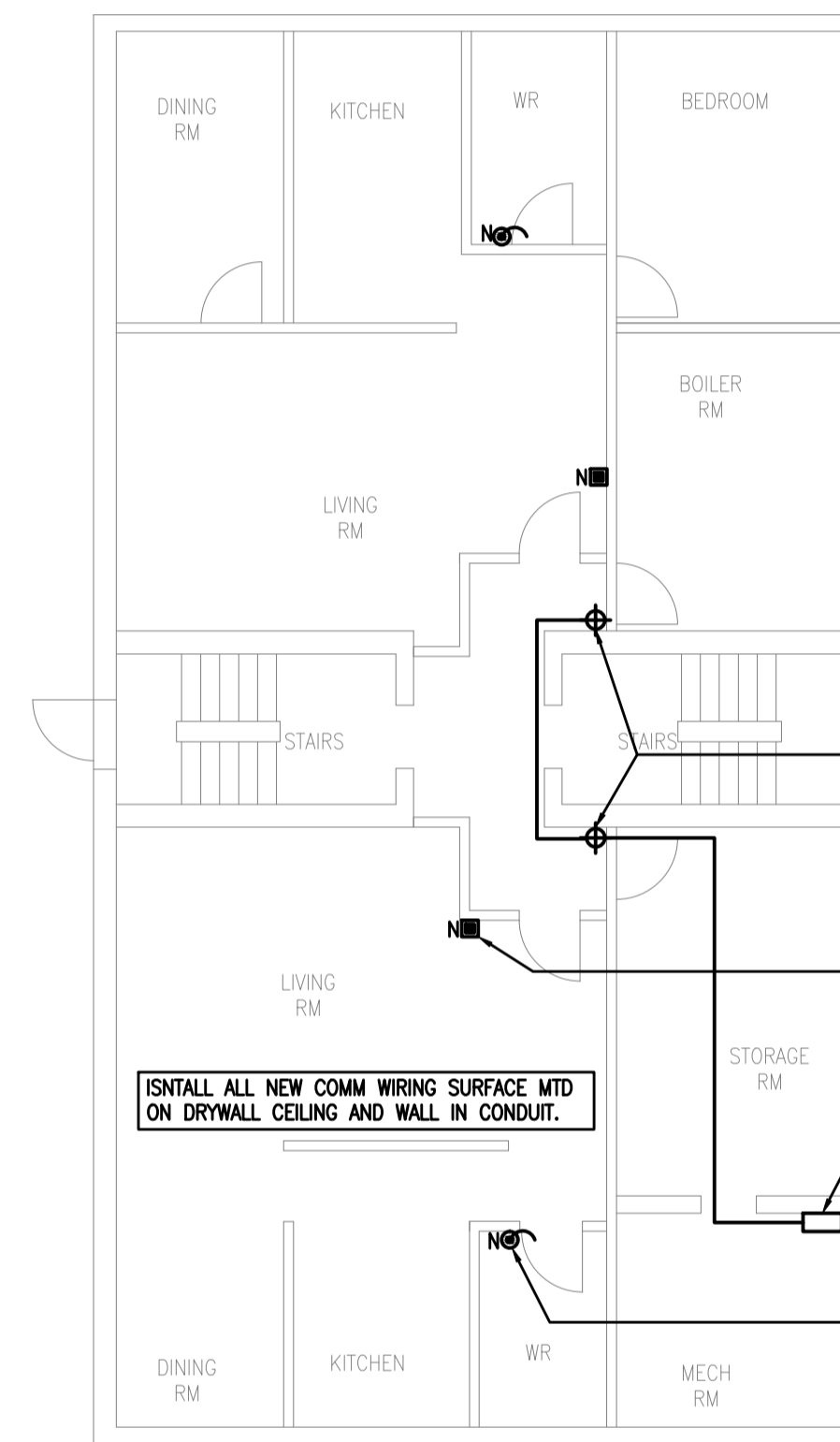


GF

PROVIDE A 6X6" DRYWALL ENCLOSURE TO EXTEND WIRING UP TO 2ND FLOOR. MUD/SAND/PAINT ENCLOSURE TO MATCH EX SURFACE.

NURSE CALL STATION SUPPLIED & INSTALLED BY HELPCALL. GC TO PROVIDE CAT 6 (SHIELDED) WIRING FROM SWITCH UNIT TO NURSE CALL UNIT, INSTALL WIRING ON WALL SURFACE IN CONDUIT (TYP)

EX ELECT DISTRIBUTION PANEL TO REMAIN (TYP)



BASEMENT

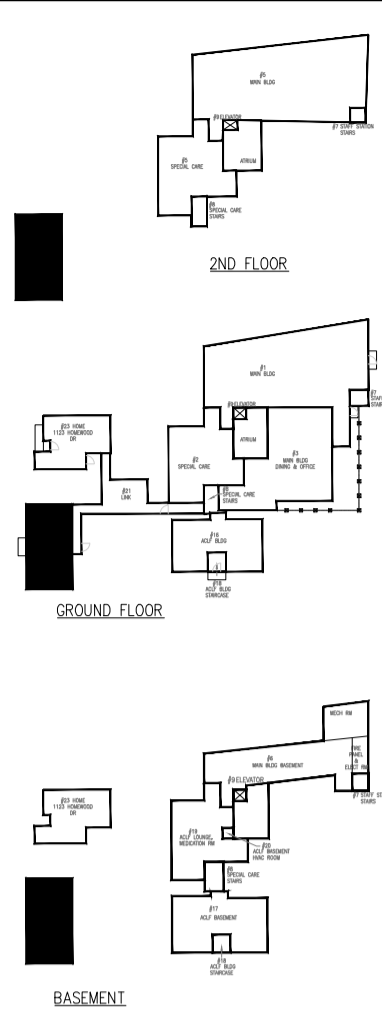
INSTALL ALL NEW COMM WIRING SURFACE MTD ON DRYWALL CEILING AND WALL IN CONDUIT.

PROPOSED WIRING ROUTING TO NURSE CALL UNITS, CONTRACTOR TO VERIFY WITH SITE CONDITIONS. WIRING UP THRU FLOOR, FIRE SEAL ALL OPENINGS (TYP)

NURSE CALL STATION SUPPLIED & INSTALLED BY HELPCALL. GC TO PROVIDE CAT 6 (SHIELDED) WIRING FROM SWITCH UNIT TO NURSE CALL UNIT, INSTALL WIRING ON WALL SURFACE IN CONDUIT (TYP)

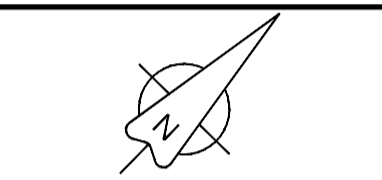
SWITCH UNIT SUPPLIED & INSTALLED BY HELPCALL. GC TO INSTALL CAT 6 (SHIELDED) WIRING FROM ELECT RM IN MAIN BLDG TO THIS SWITCH UNIT AND FROM THIS SWITCH UNIT TO NURSE CALL STATIONS IN THIS BLDG

PROVIDE NEW PULL CORD NURSE STATION, EXTEND NEW SURFACE MTD COMM WIRING ON CEILING AND WALL TO UNIT (TYP ALL)



GENERAL NOTES:

CONTRACTOR TO CHECK DRAWINGS AND VERIFY DIMENSIONS ON THE JOB  
 REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION OR SHOP FABRICATION.  
 DO NOT SCALE DRAWINGS.  
 ALL DRAWINGS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF PROBUILD ENGINEERING INC.  
 REPRODUCTION OF DRAWINGS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION FROM PROBUILD ENGINEERING INC.



APPROVED BY:



REV.	DATE	NAME	DESCRIPTION
03	MAY 13, 2025	MSK	ISSUED FOR TENDER ADD-ON
02	MAR 26, 2025	MSK	ISSUED FOR TENDER
01	NOV 27, 2024	MSK	ISSUED FOR TENDER

CLIENT:

**PROBUILD ENGINEERING**  
 50 Shandon Dr.,  
 Toronto ON M1R 4M5, Canada  
 Tel: (416) 671-0054  
 www.ProBuildEngineering.ca  
 info@ProBuildEngineering.ca

PROJECT NAME:  
 BUILDING UPGRADES  
 BETHANY RESIDENCE  
 2387 INDUSTRIAL ST.  
 BURLINGTON ON

DRAWING TITLE:  
 #22 APT  
 1119 HOMEWOOD DR  
 ELECT COMM PLAN

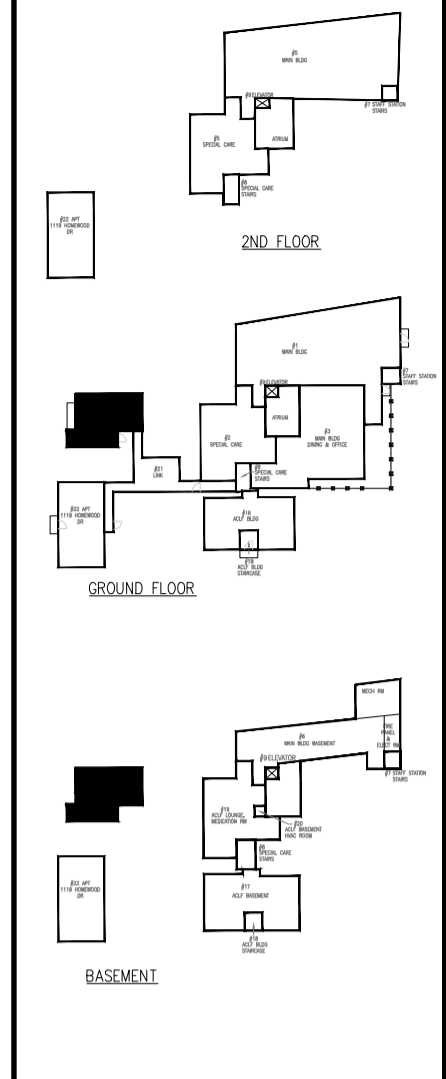
PROJECT NO:  
 MK-2025-03

FILE NO:  
 PBE-25-03

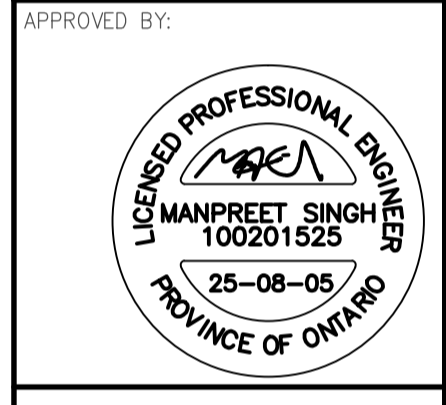
DATE: MAY 2025  
 SCALE: AS NOTED  
 DRAWN BY: IE  
 CHECKED BY: MSK

DRAWING NO:  
**EC6**

**NEW PLAN**  
 SCALE: 1/8" = 1'-0"



GENERAL NOTES:  
 CONTRACTOR TO CHECK DRAWINGS AND VERIFY DIMENSIONS ON THE JOB.  
 REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION OR SHOP FABRICATION.  
 DO NOT SCALE DRAWINGS.  
 ALL DRAWINGS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF PROBUILD ENGINEERING INC.  
 REPRODUCTION OF DRAWINGS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION FROM PROBUILD ENGINEERING INC.



REV.	DATE	NAME	DESCRIPTION
03	MAY 13, 2025	MSK	ISSUED FOR TENDER ADD-ON
02	MAR 26, 2025	MSK	ISSUED FOR TENDER
01	NOV 27, 2024	MSK	ISSUED FOR TENDER

CLIENT:  
 CONSULTANT:

**PROBUILD ENGINEERING**  
 50 Shandon Dr.,  
 Toronto ON M1R 4M5, Canada  
 Tel: (416) 671-0054  
 www.ProBuildEngineering.ca  
 info@ProBuildEngineering.ca

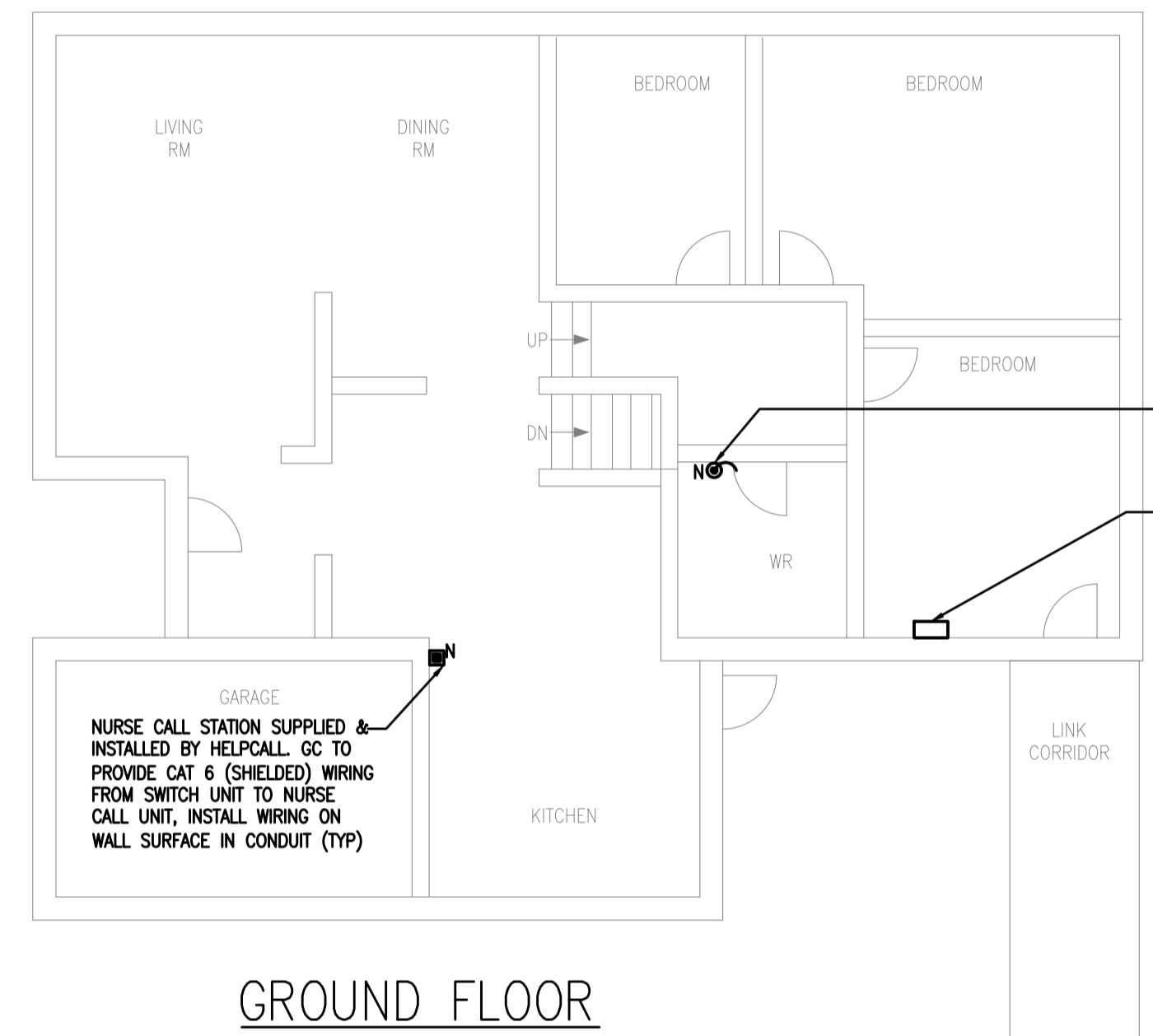
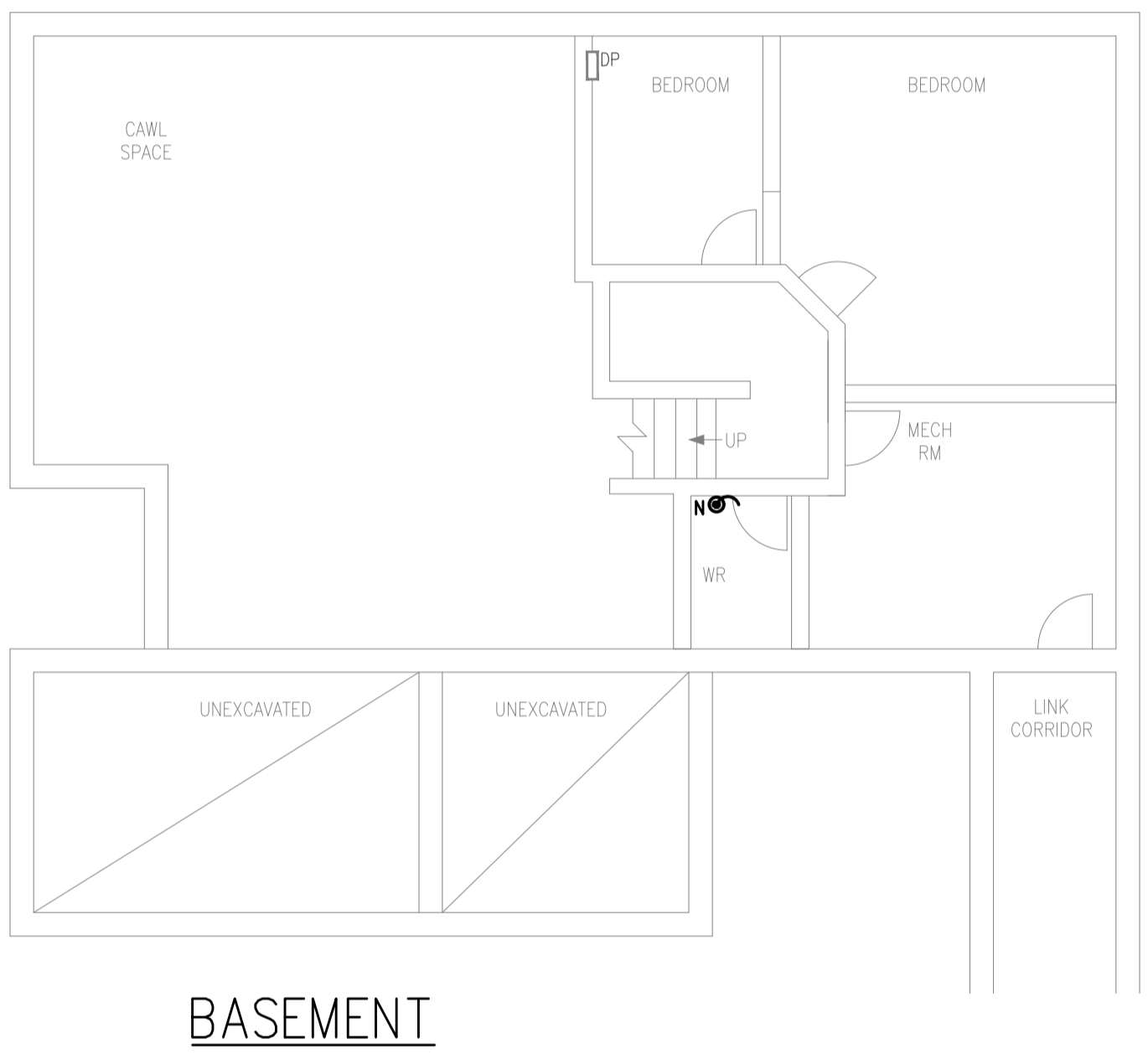
PROJECT NAME:  
 BUILDING UPGRADES  
 BETHANY RESIDENCE  
 2387 INDUSTRIAL ST.  
 BURLINGTON ON

DRAWING TITLE:  
 #23 APT  
 1123 HOMEWOOD DR  
 ELECT COMM PLAN

PROJECT NO:  
 MK-2025-03

FILE NO:  
 PBE-25-03

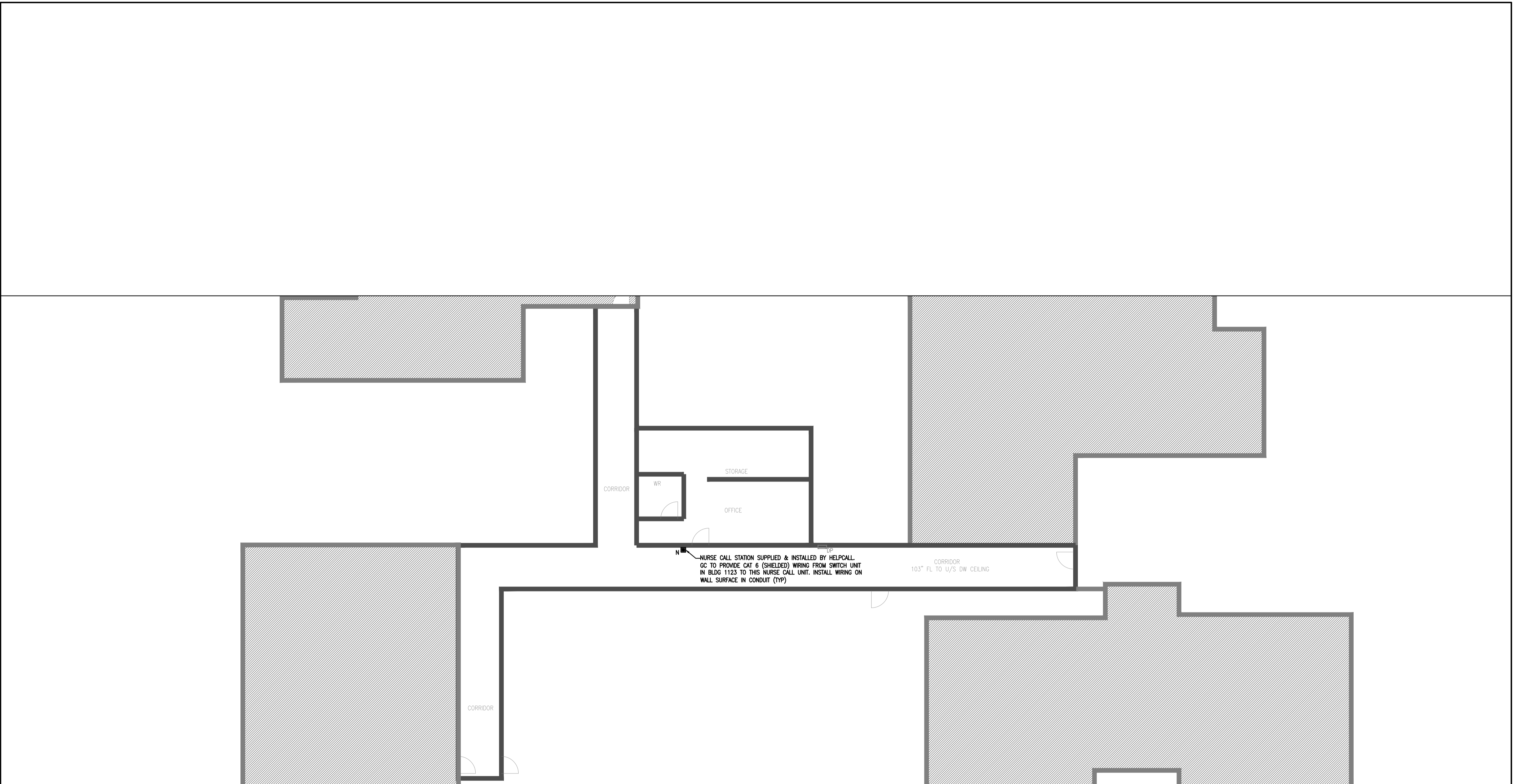
DATE: MAY 2025  
 SCALE: AS NOTED  
 DRAWN BY: IE  
 CHECKED BY: MSK



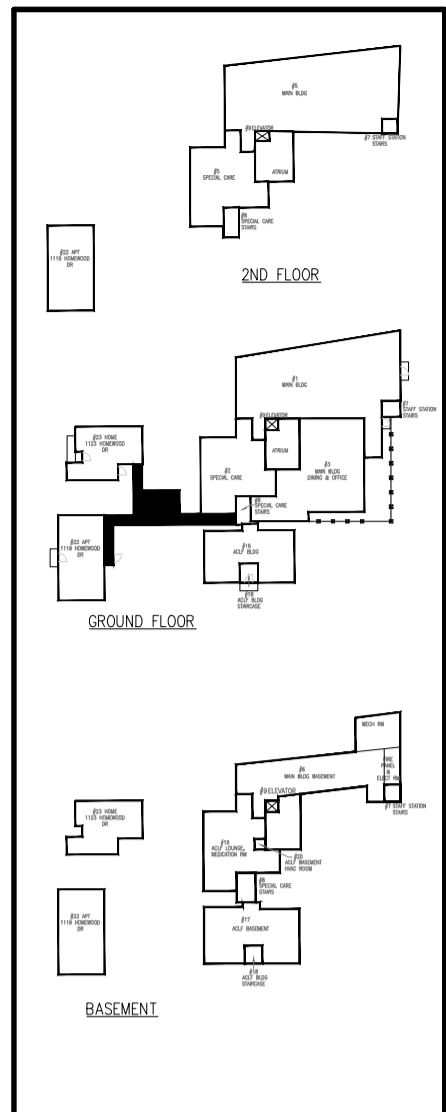
PROVIDE NEW PULL CORD NURSE STATION, EXTEND NEW SURFACE MTD COMM WIRING ON CEILING AND WALL TO UNIT (TYP ALL)  
 SWITCH UNIT SUPPLIED & INSTALLED BY HELP CALL. GC TO INSTALL CAT 6 (SHIELDED) WIRING FROM ELECT RM IN MAIN BLDG TO THIS SWITCH UNIT AND FROM THIS SWITCH UNIT TO NURSE CALL STATION IN KITCHEN & LINK (CORRIDOR)

NURSE CALL STATION SUPPLIED & INSTALLED BY HELPCALL. GC TO PROVIDE CAT 6 (SHIELDED) WIRING FROM SWITCH UNIT TO NURSE CALL UNIT, INSTALL WIRING ON WALL SURFACE IN CONDUIT (TYP)

**NEW PLAN**  
 SCALE: 1/8" = 1'-0"



**NEW PLAN**  
SCALE: 1/8" = 1'-0"



GENERAL NOTES:  
CONTRACTOR TO CHECK DRAWINGS AND VERIFY DIMENSIONS ON THE JOB.  
REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION OR SHOP FABRICATION.  
DO NOT SCALE DRAWINGS.  
ALL DRAWINGS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF PROBUILD ENGINEERING INC.  
REPRODUCTION OF DRAWINGS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION FROM PROBUILD ENGINEERING INC.



APPROVED BY:  
  
MANPREET SINGH  
1002015225  
25-08-05  
PROVINCE OF ONTARIO

REV.	DATE	NAME	DESCRIPTION
03	MAY 13, 2025	MSK	ISSUED FOR TENDER ADD-ON
02	MAY 26, 2025	MSK	ISSUED FOR TENDER
01	NOV 27, 2024	MSK	ISSUED FOR TENDER

CLIENT:  
CONSULTANT:

**PROBUILD ENGINEERING**  
50 Shandon Dr.,  
Toronto ON M1R 4M5, Canada  
Tel: (416) 671-0054  
www.ProBuildEngineering.ca  
info@ProBuildEngineering.ca

PROJECT NAME:  
BUILDING UPGRADES  
BETHANY RESIDENCE  
2387 INDUSTRIAL ST.  
BURLINGTON ON

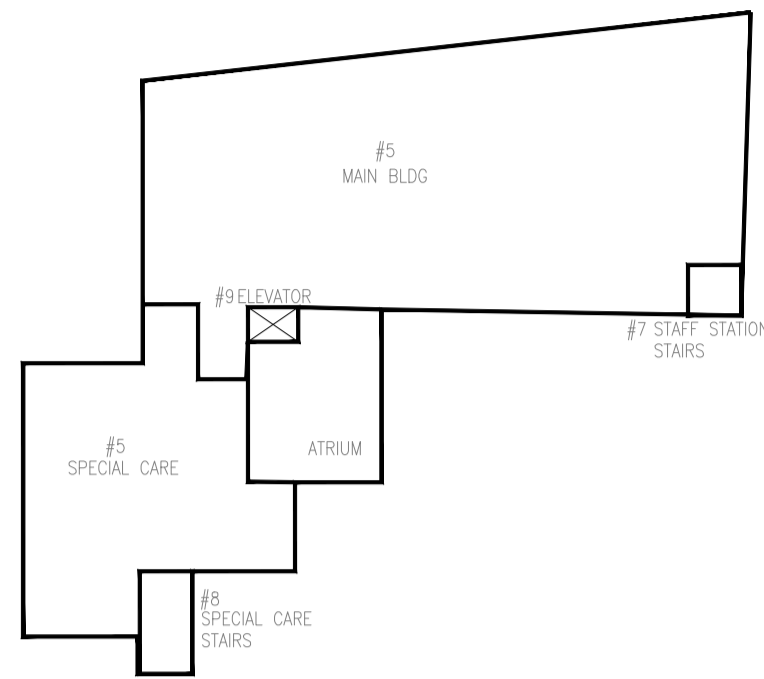
DRAWING TITLE:  
#21 LINK  
(GF CORRIDOR)  
ELECT COMM PLAN

PROJECT NO:  
MK-2025-03

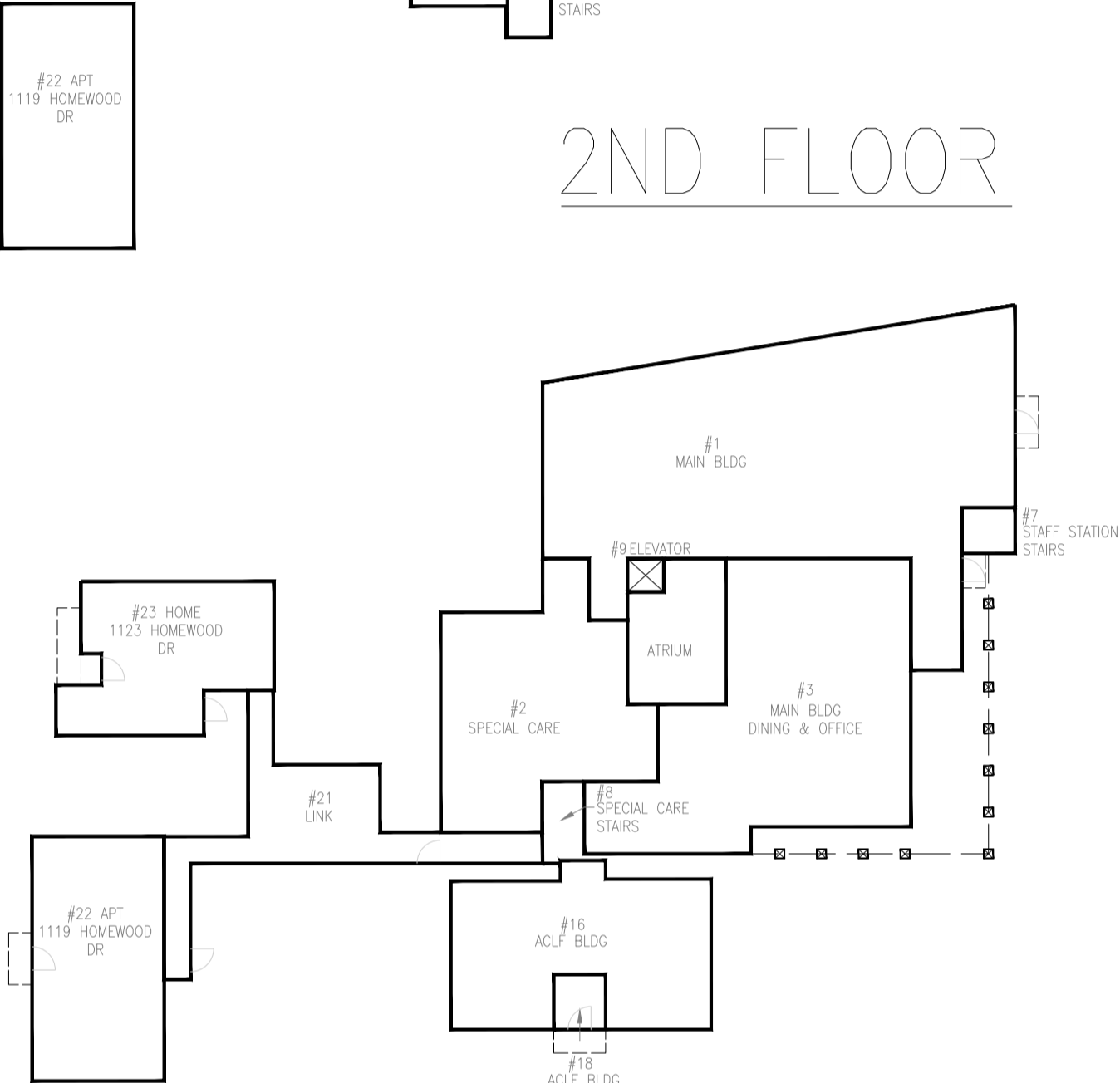
FILE NO:  
PBE-25-03

DATE: MAY 2025  
SCALE: AS NOTED  
DRAWN BY: IE  
CHECKED BY: MSK  
DRAWING NO: **EC8**

# KEY PLAN



# 2ND FLOOR



# GROUND FLOOR



# BASEMENT

BOILER SCHEDULE														BASIS OF DESIGN: AS NOTED APPROVED EQUIVALENT ACCEPTABLE	
TAG	MAKE	MODEL	TYPE	LOCATION	HEATING CAPACITY		MAX WATER FLOW GPM (L/S)	HEAD LOSS FT (M)	HEATING STAGES	EFFICIENCY AFUE (%)	ELECT	WEIGHT (LBS)	DIMENSION IN (M)	FLUE VENT ØIN (Ømm)	COMMENTS
					INPUT MBH	OUTPUT MBH									
DB-1 DB-2	LAARS	NEOTHERM NTV285	VOLUME WATER HEATER	MAIN BLDG BASEMENT MECH RM	285	264	27 (1.7)	14 (4.26)	MODULATING	95%	120/1/60 12A	205	38"Hx26.75"Dx24.5"W	100Ø CPVC	1-1/4" DHW/CW CONNECTION, 3/4" GAS CONN. WALL MTD UNIT C/W GALV FLOOR/WALL STAND.
HB-1 HB-1	NTI	TFTN399	CONDENSING	MAIN BLDG BASEMENT MECH RM	399	380	38 (2.39)	14 (4.26)	MODULATING	95.4%	120/1/60 12A	250	36.5"Hx21.25"Dx25.25W	100Ø CPVC	1-1/2" HWS/HWR CONNECTION, 3/4" GAS CONN. WALL MTD UNIT C/W GALV FLOOR/WALL STAND.
FHB-1	NTI	TFTN110	CONDENSING	1119 HOMEWOOD DR BASEMENT	101	88	8.8 (0.55)	15 (4.57)	MODULATING	95%	120/1/60 12A	107	34.2"Hx17.3"Dx19.8W	75Ø CPVC	1-1/4" HWS/HWR CONNECTION, 3/4" GAS CONN. WALL MTD UNIT C/W GALV FLOOR/WALL STAND.

NOTE:

- WALL MOUNTED, COMMERCIAL BOILER, WIFI ENABLED, STAINLESS STEEL HEAT EXCHANGER, WITH BACNET CAPABLE ACCESSORIES, LOW NOx, INTERNAL WATER PRESSURE SENSOR, BUILT-IN LOW WATER CUT-OFF WITH TEST BUTTON, 120V CONVENIENCE OUTLET.
- PROVIDE WALL MOUNTING BRACKET.
- CONNECT HEATING BOILERS TO NEW OUTSIDE AIR TEMP SENSOR
- INSTALL A NEW DHWT TEMP SENSOR (THERMISTOR) IN STORAGE TANK AND CONNECT TO DOM HOT WATER BOILERS DB-1 & DB-2. SET BOILER TO ENGAGE WHEN TANK TEMP DROPS 5°F BELOW SETPOINT.
- RECONNECT POWER TO HB-1 FROM EX SERVICE AND BRING NEW POWER TO HB-2 FROM ELECT PANEL J IN MECH RM.
- DOMESTIC BOILER TO BE COMMON VENTED CENTRITHERM POLYPROPYLENE 6", EXTEND OUT THRU WALL AND UP AGAINST EXTERIOR WALL. INSTALL VENTING AS PER MANUFACTURER INSTRUCTIONS
- HEAT BOILER (MECH RM) TO BE COMMON VENTED CENTRITHERM POLYPROPYLENE 6", EXTEND OUT THRU WALL AND UP AGAINST EXTERIOR WALL. INSTALL VENTING AS PER MANUFACTURER INSTRUCTIONS

PUMP SCHEDULE											BASIS OF DESIGN: GRUNDFOS APPROVED EQUIVALENT ACCEPTABLE	
PUMP NO.	PUMP NAME	LOCATION	MAKE/MODEL	FLOW GPM (L/S)	HEAD FT (M)	VOLT & PHASE	VFD	MOTOR SIZE HP	RPM	REMARKS		
HP-1	HEATING LOOP PUMP	MAIN BLDG BASEMENT MECH RM	GRUNDFOS MAGNA3-50-GF	78 (4.92)	15 (4.57)	115/1/60 341W	ECM	0.46	3930	RECONNECT POWER FROM EX PUMP SUPPLY,		
BP-1 BP-2	HEATING BOILER PUMP	MAIN BLDG BASEMENT MECH RM	GRUNDFOS UPS26-150	38 (2.39)	14 (4.26)	115/1/60 197W	3-SPD	0.2	1760	RECONNECT POWER FROM EX PUMP SUPPLY TO BP-1, AND PROVIDE NEW POWER FROM ELECT PANEL J TO BP-2		
DP-1 DP-2	DOMESTIC WATER BOILER PUMP	MAIN BLDG BASEMENT MECH RM	GRUNDFOS UPS26-99FC	12.7 (0.80)	22 (6.7)	115/1/60 197W	3-SPD	1/6	1760	RECONNECT POWER FROM EX PUMP SUPPLY,		
FHP-1	IN-FLOOR HEATING LOOP PUMP	1119 HOMEWOOD DR BASEMENT	GRUNDFOS UPS26-99FC	15 (0.94)	20 (6.01)	115/1/60 197W	3-SPD	1/6	3380	RECONNECT POWER FROM EX PUMP SUPPLY,		

NOTE:

- WALL MOUNTED, COMMERCIAL BOILER, WIFI ENABLED, STAINLESS STEEL HEAT EXCHANGER, WITH BACNET CAPABLE ACCESSORIES, VARIABLE SPEED BOILER PUMP, LOW NOx, INTERNAL WATER PRESSURE SENSOR, BUILT-IN LOW WATER CUT-OFF WITH TEST BUTTON, 120V CONVENIENCE OUTLET.
- PROVIDE WALL MOUNTING BRACKET.
- CONNECT HEATING BOILERS TO NEW OUTSIDE AIR TEMP SENSOR
- INSTALL A NEW DHWT TEMP SENSOR (THERMISTOR) IN STORAGE TANK AND CONNECT TO DOM HOT WATER BOILERS DB-1 & DB-2. SET BOILER TO ENGAGE WHEN TANK TEMP DROPS 5°F BELOW SETPOINT.

EXISTING PUMPS:

- EX HP-1: GRUNDFOS UP53-45 F (1X115-230V 60HZ)
- EX BP-1: GRUNDFOS UPS43-44FC (115/1/60)
- EX DP-1
- EX FHP-1: B&G SEAL BRG J22 (115/1/60)

UNIT HEATER SCHEDULE										
No.	MAKE/MODEL	LOCATION	TYPE	HEATING CAP. (MBH)	AIRFLOW (CFM)	L.A.T. (°F)	WATER FLOW (GPM)	E.W.T. (°F)	POWER	BASIS OF DESIGN
UH-1	TRANE UHSB-072	BASEMENT MECH RM	HORIZ. DISCHARGE	72	1100	104	5.3	180	120/1/60	INSTALL UNIT IN PLACE OF EX. RECONNECT EX HWS/R.

EX PANSION TANK SCHEDULE					
No.	MAKE	MODEL	SYSTEM	LOCATION	COMMENTS
DEXP-1	FLEXCON	WHV50	DOMESTIC WATER	MAIN BLDG MECH RM	DIAPHRAGM EXP TANK FLOOR MOUNTED, 40 PSIG FACTORY CHARGE, NON ASME 150 PSIG MAX WORKING PRESS 1" FNTP
HEXP-1	FLEXCON	SXHT160	HEATING SYSTEM	MAIN BLDG MECH RM	DIAPHRAGM EXP TANK FLOOR MOUNTED, 12 PSIG FACTORY CHARGE, NON ASME 100 PSIG MAX WORKING PRESS 1-1/4" FNTP
HEXP-2	FLEXCON	HTX30	IN-FLOOR HEATING	1119 BLDG BASEMENT	DIAPHRAGM EXP PIPE MTD MOUNTED, 12 PSIG FACTORY CHARGE, NON ASME 100 PSIG MAX WORKING PRESS 1/2" FNTP

LEGEND	
	NEW PIPING, DUCTWORK, EQUIPMENT
	DIRECTION OF FLOW
	DOMESTIC COLD WATER (DCW)
	DOMESTIC HOT WATER (DHW)
	DOMESTIC HOT WATER RECIRC (DHWR)
	VENT
	GAS LINE
	CONDENSATE
	DRAIN
	HEATING WATER RETURN
	HEATING WATER SUPPLY
	TEMPERATURE GAUGE
	PRESSURE GAUGE
	FLOW SWITCH
	UNION
	AUTOMATIC AIR VENT
	PUMP
	AUTOMATIC CONTROL VALVE - THREE WAY
	GATE VALVE
	CIRCUIT SETTER (CBV)
	NON-RETURN VALVE (CHECK VALVE)
	Y-STRAINER
	BUTTERFLY VALVE
	TRAP
	FIRE EXTINGUISHER
	PIPE DROP
	SPRINKLER HEAD UPRIGHT (EXPOSED CEILING)
	FLOOR DRAIN (FD), FUNNEL FLOOR DRAIN (FFD)
	STARTER
	EQUIPMENT TAG
	THERMOSTAT
	TEMPERATURE SENSOR (AQUASTAT)
	DIRECTION OF AIR FLOW
	INLINE FAN
	BALANCING DAMPER (SINGLE BLADE)
	EXISTING DUCTWORK
	FUNNEL FLOOR DRAIN
	FLOOR DRAIN
	HUB DRAIN
	EXPANSION
	EXISTING
	CONNECT TO EXISTING
	AUTOMATIC AIR VENT
	NORMALLY CLOSED

GENERAL NOTES:

CONTRACTOR TO CHECK DRAWINGS AND VERIFY DIMENSIONS ON THE JOB

REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION OR SHOP FABRICATION.

DO NOT SCALE DRAWINGS.

ALL DRAWINGS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF PROBUILD ENGINEERING INC.

REPRODUCTION OF DRAWINGS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION FROM PROBUILD ENGINEERING INC.

APPROVED BY:

CLIENT:

CONSULTANT:

**PROBUILD ENGINEERING**

50 Shandon Dr.,  
Toronto ON M1R 4M5, Canada  
Tel: (416) 671-0054  
www.ProBuildEngineering.ca  
info@ProBuildEngineering.ca

PROJECT NAME:

BUILDING UPGRADES BETHANY RESIDENCE  
2387 INDUSTRIAL ST.  
BURLINGTON ON

DRAWING TITLE:

MECH LEGEND,  
SCHEDULE & KEYPLAN

PROJECT NO:  
MK-2025-03

FILE NO:  
PBE-25-03

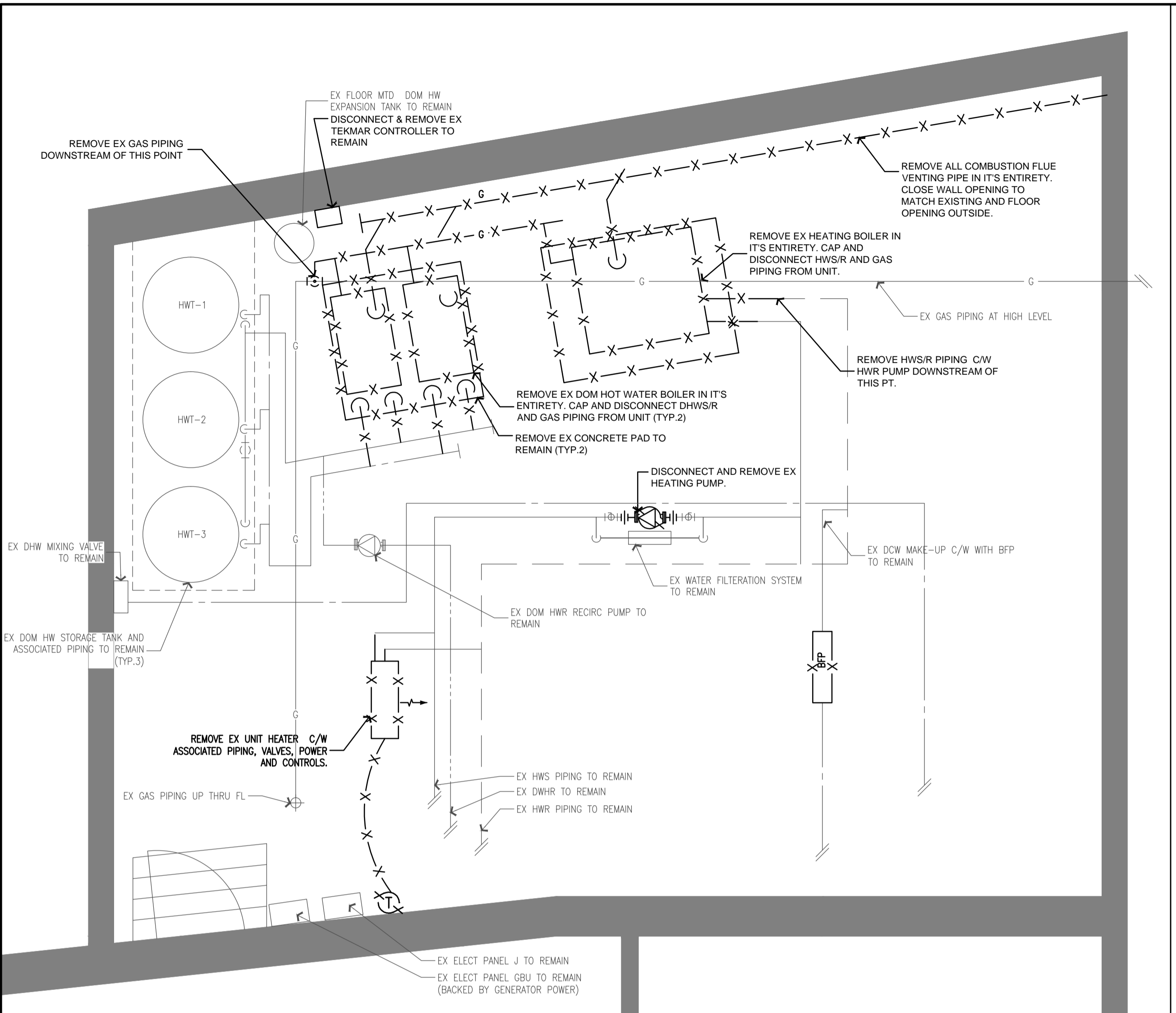
DATE: MAY 2025

SCALE: AS NOTED

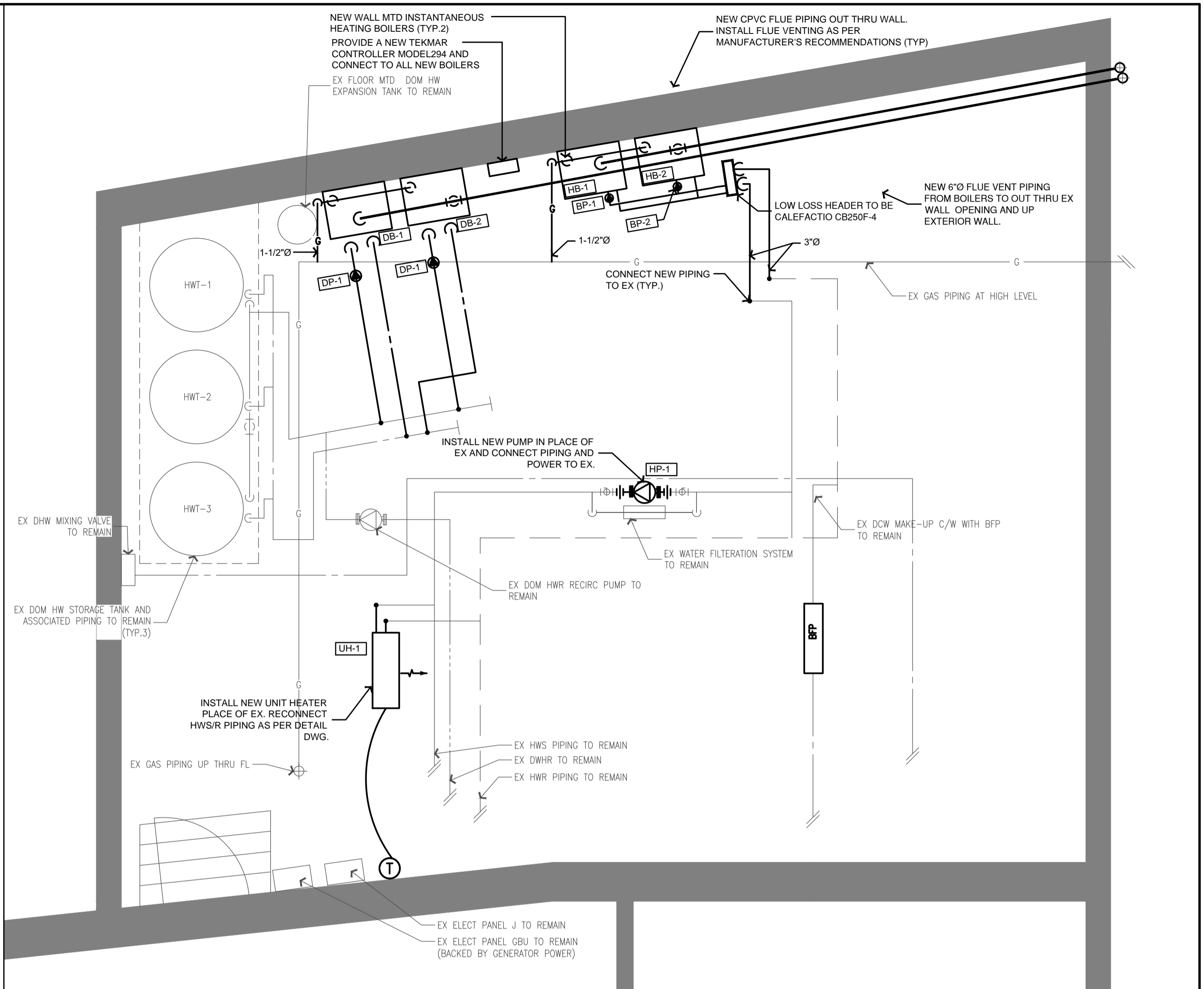
DRAWN BY: IE

CHECKED BY: MSK

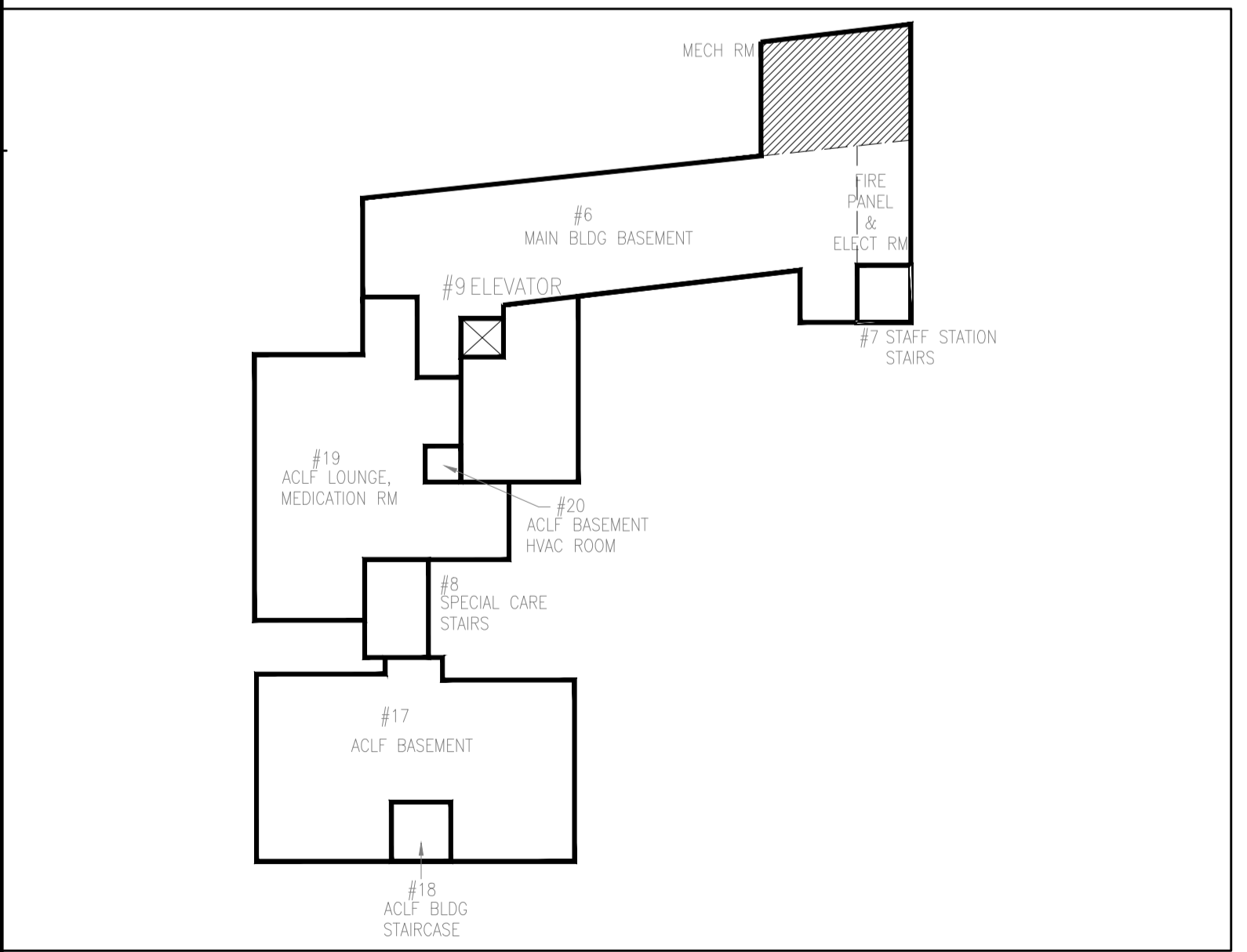
DRAWING NO:  
**M1**



**MECH RM DEMO PLAN**  
SCALE: 3/8" = 1'-0"



**MECH RM NEW PLAN**  
SCALE: 3/8" = 1'-0"



**BASEMENT KEY PLAN**  
NTS



**EX BOILER EXHAUST CHIMNEY**  
NTS

GENERAL NOTES:  
CONTRACTOR TO CHECK DRAWINGS AND VERIFY DIMENSIONS ON THE JOB.  
REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION OR SHOP FABRICATION.  
DO NOT SCALE DRAWINGS.  
ALL DRAWINGS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF PROBUILD ENGINEERING INC.  
REPRODUCTION OF DRAWINGS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION FROM PROBUILD ENGINEERING INC.

APPROVED BY:

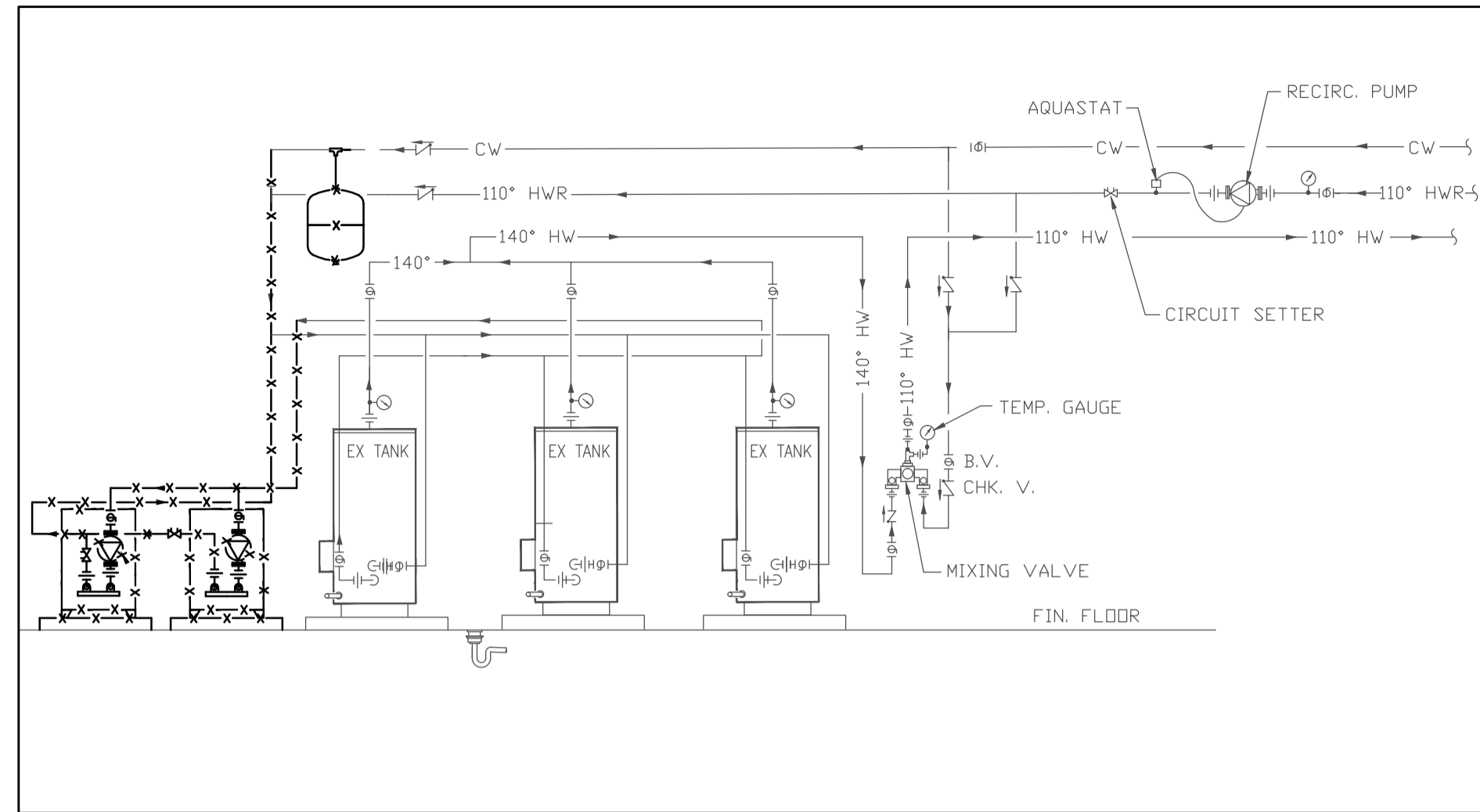
REV.	DATE	NAME	DESCRIPTION
04	MAY 13, 26	MSK	ISSUED FOR TENDER ADD-01
03	MAR 26, 26	MSK	ISSUED FOR TENDER
02	JUN 11, 25	MSK	ISSUED FOR REVIEW
01	MAY 23, 25	MSK	ISSUED FOR REVIEW

CONSULTANT:  
**PROBUILD ENGINEERING**  
50 Shandon Dr.,  
Toronto ON M1R 4M5, Canada  
Tel: (416) 671-0054  
www.ProBuildEngineering.ca  
info@ProBuildEngineering.ca

PROJECT NAME:  
BUILDING UPGRADES  
BETHANY RESIDENCE  
2387 INDUSTRIAL ST.  
BURLINGTON ON

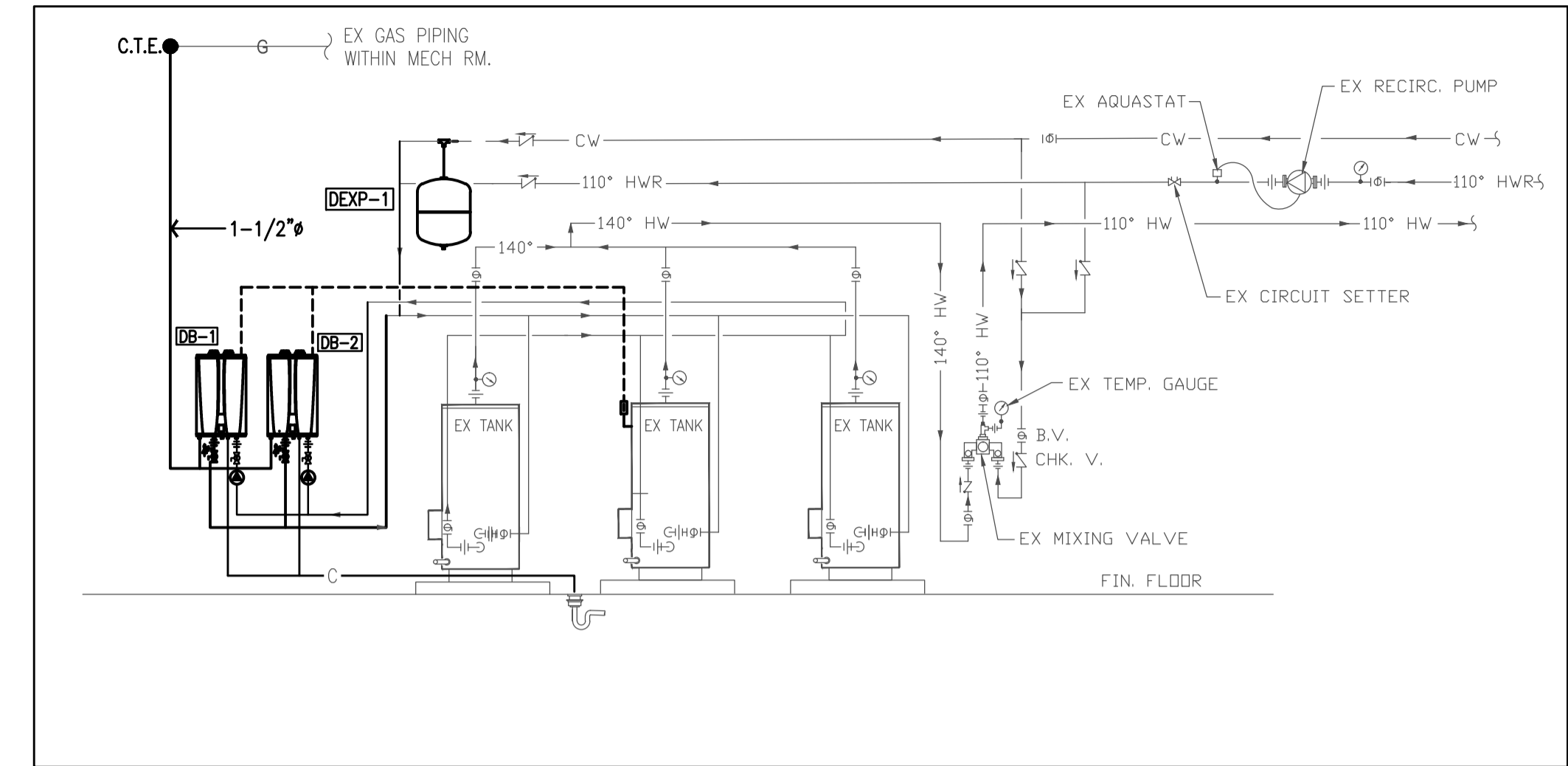
DRAWING TITLE:  
MAIN BLDG MECH RM  
PLAN (BASEMENT  
LEVEL)

PROJECT NO:  
MK-2025-03  
FILE NO:  
PBE-25-03  
DATE: MAY 2025  
SCALE: AS NOTED  
DRAWN BY: IE  
CHECKED BY: MSK  
DRAWING NO:  
**M2**



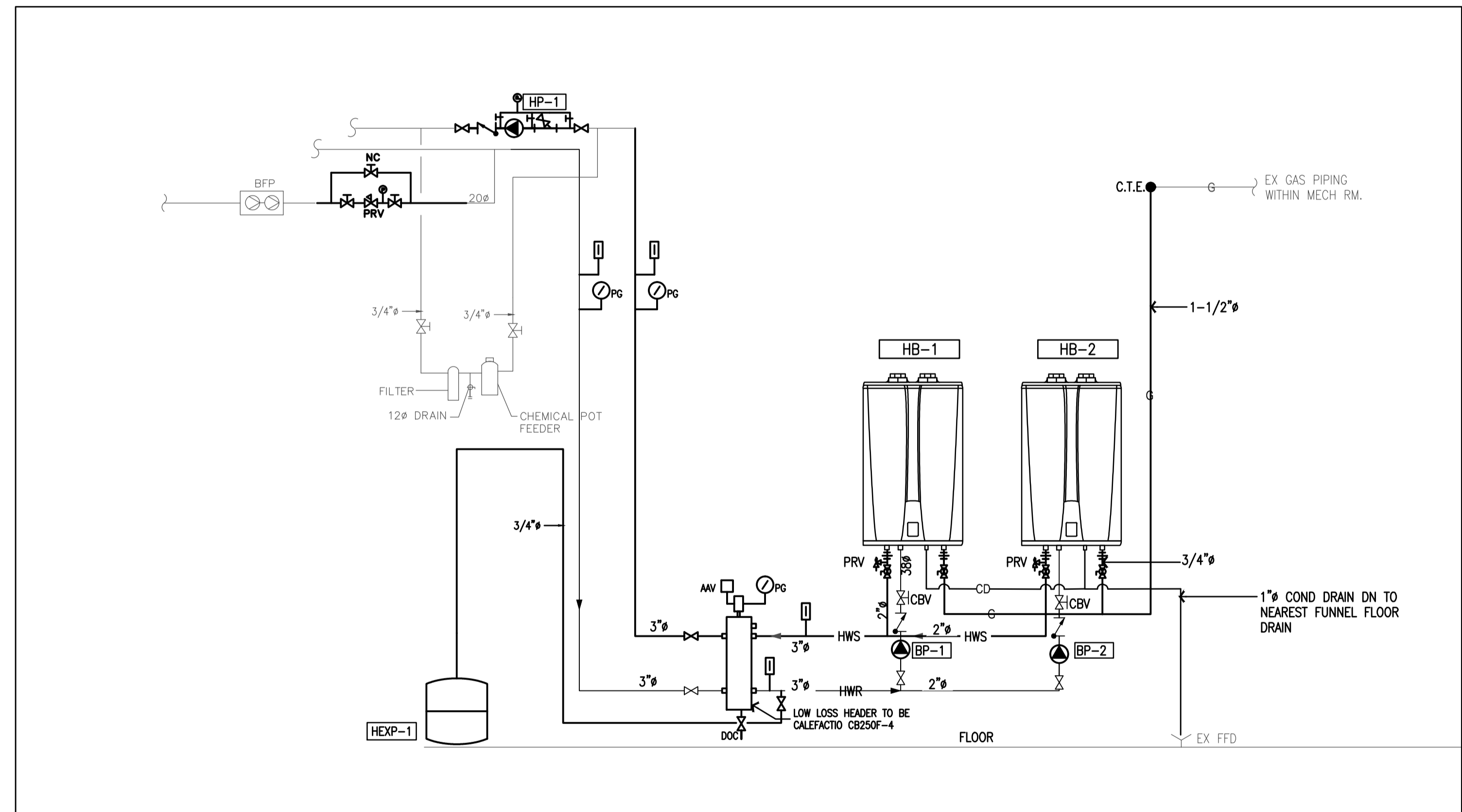
**DHW PIPING DEMO SCHEMATIC**

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



**DHW PIPING NEW SCHEMATIC**

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



**HEATING SYSTEM SCHEMATIC**

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

GENERAL NOTES:

CONTRACTOR TO CHECK DRAWINGS AND VERIFY DIMENSIONS ON THE JOB.  
 REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION OR SHOP FABRICATION.  
 DO NOT SCALE DRAWINGS.  
 ALL DRAWINGS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF PROBUILD ENGINEERING INC.  
 REPRODUCTION OF DRAWINGS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION FROM PROBUILD ENGINEERING INC.



APPROVED BY:



REV.	DATE	NAME	DESCRIPTION
01			
02			
03			
04			

REV.	DATE	NAME	DESCRIPTION
01	MAY 13, 26	MSK	ISSUED FOR TENDER ADD-01
02	MAR 26, 26	MSK	ISSUED FOR TENDER
03	JUN 11, 25	MSK	ISSUED FOR REVIEW
04	MAY 23, 25	MSK	ISSUED FOR REVIEW

CLIENT:

CONSULTANT:

**PROBUILD ENGINEERING**  
 50 Shandon Dr.,  
 Toronto ON M1R 4M5, Canada  
 Tel: (416) 671-0054  
 www.ProBuildEngineering.ca  
 info@ProBuildEngineering.ca

PROJECT NAME:

BUILDING UPGRADES  
 BETHANY RESIDENCE  
 2387 INDUSTRIAL ST.  
 BURLINGTON ON

DRAWING TITLE:

MECH RM HEATING &  
 DHW PIPING SCHEMATIC

PROJECT NO:

MK-2025-03

FILE NO:

PBE-25-03

DATE:

MAY 2025

SCALE:

AS NOTED

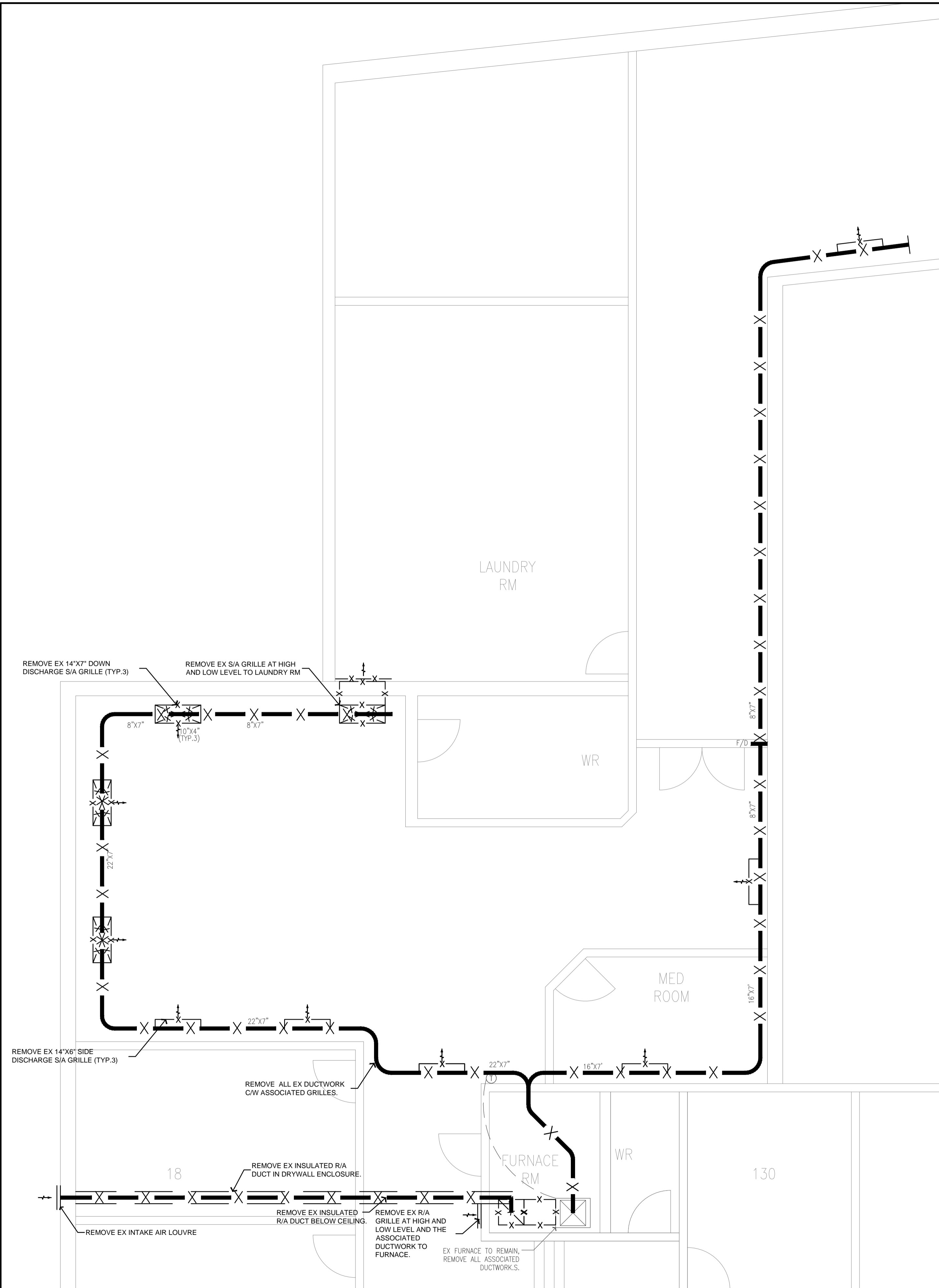
DRAWN BY:

IE

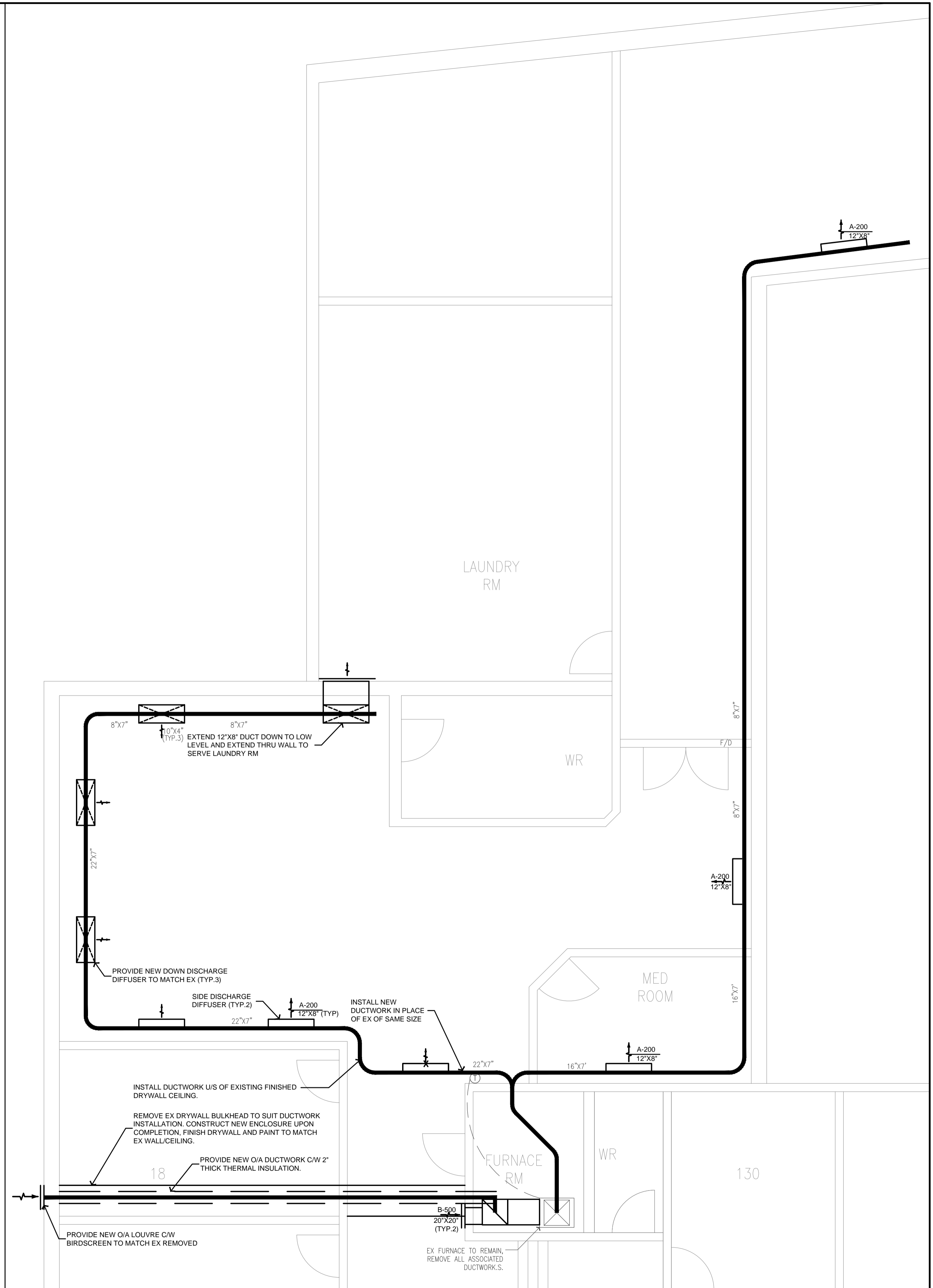
CHECKED BY:

MSK

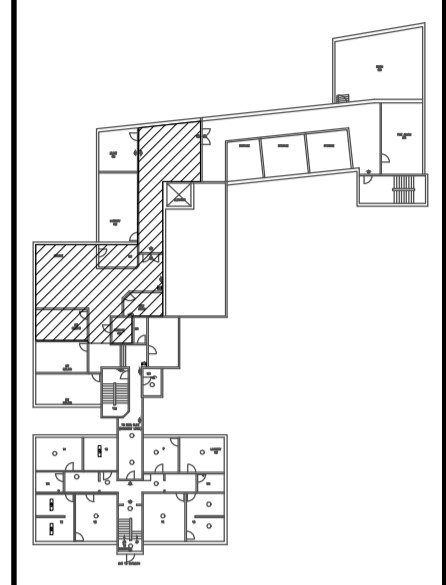
**M3**



**LOUNGE MECH DEMO PLAN**  
SCALE: 3/8" = 1'-0"



**LOUNGE MECH NEW PLAN**  
SCALE: 3/8" = 1'-0"



APPROVED BY:

REV.	DATE	NAME	DESCRIPTION
01	MAY 13, 26	MSK	ISSUED FOR TENDER ADD-01
02	MAR 26, 26	MSK	ISSUED FOR TENDER
03	JUN 11, 25	MSK	ISSUED FOR REVISION
04	MAY 23, 25	MSK	ISSUED FOR REVIEW

CLIENT:  
CONSULTANT:  
**PROBUILD ENGINEERING**  
50 Shandon Dr.,  
Toronto ON M1R 4M5, Canada  
Tel: (416) 671-0054  
www.ProBuildEngineering.ca  
info@ProBuildEngineering.ca

PROJECT NAME:  
BUILDING UPGRADES  
BETHANY RESIDENCE  
2387 INDUSTRIAL ST.  
BURLINGTON ON

DRAWING TITLE:  
BASEMENT LOUNGE  
HVAC PLAN

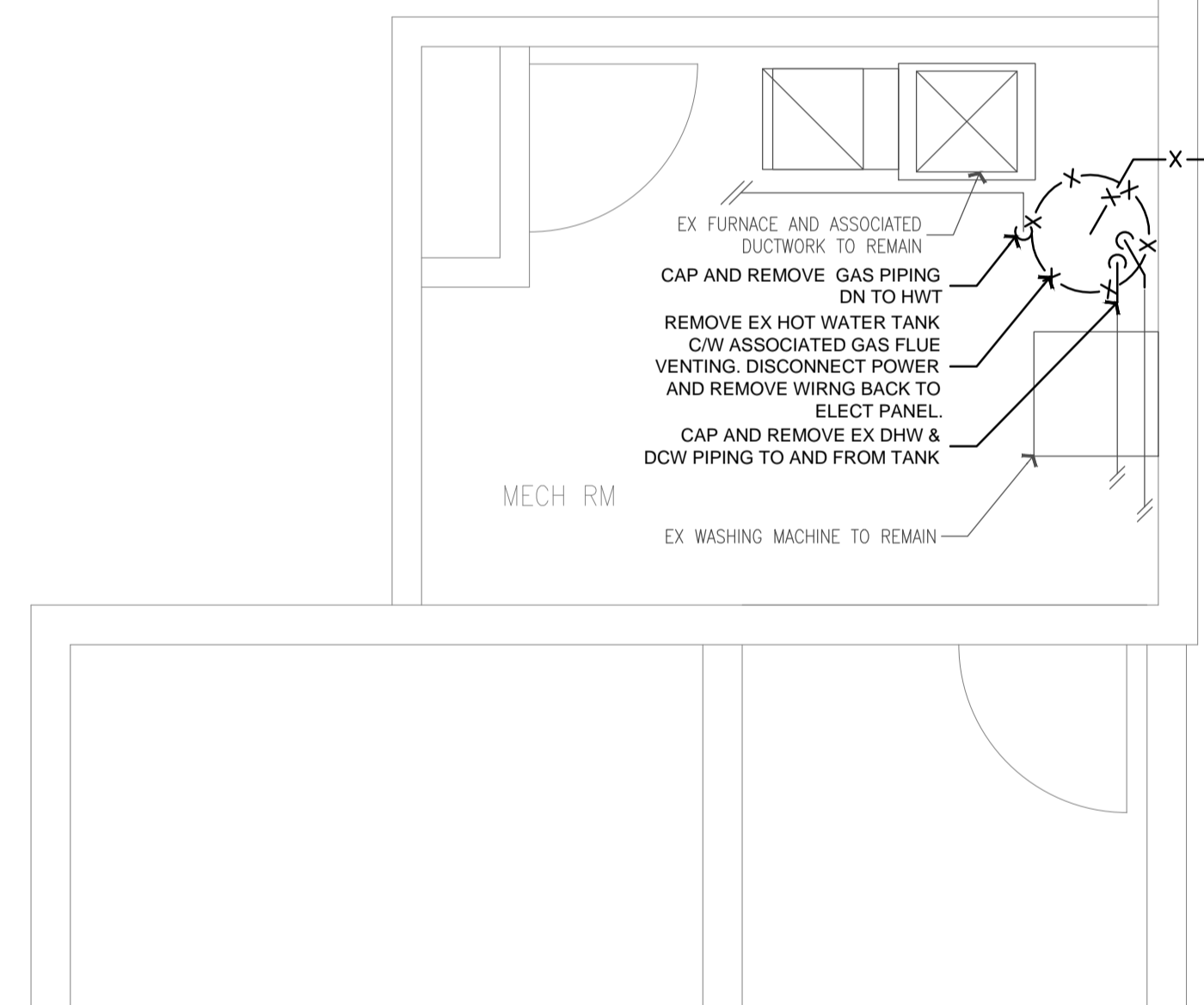
PROJECT NO:  
MK-2025-03

FILE NO:  
PBE-25-03

DATE: MAY 2025  
SCALE: AS NOTED  
DRAWN BY: IE  
CHECKED BY: MSK

DRAWING NO:  
**M4**

#23 HOME  
1123 HOMEWOOD  
DR

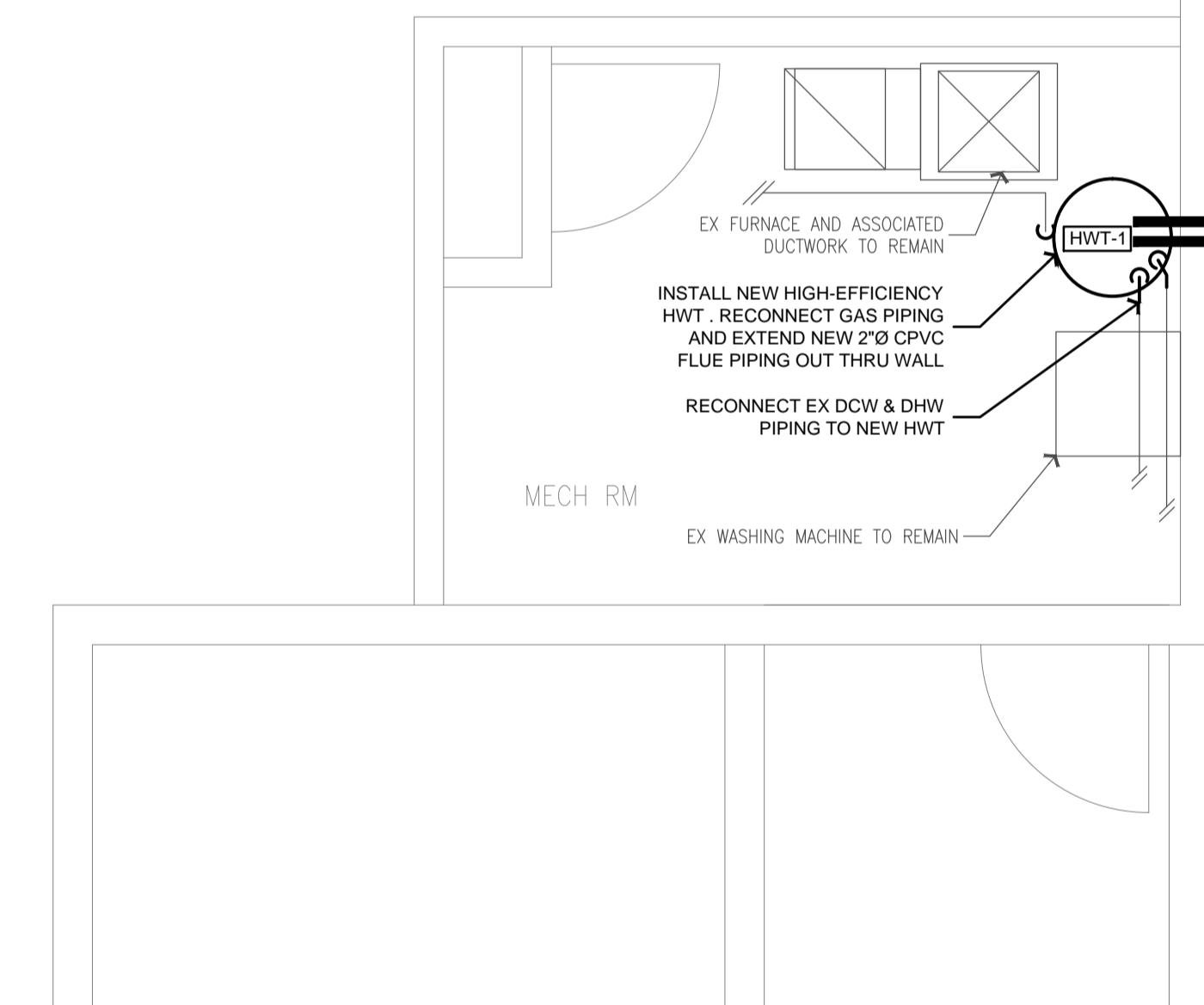


- EX FURNACE AND ASSOCIATED DUCTWORK TO REMAIN
- CAP AND REMOVE GAS PIPING DN TO HWT
- REMOVE EX HOT WATER TANK C/W ASSOCIATED GAS FLUE VENTING. DISCONNECT POWER AND REMOVE WIRING BACK TO ELECT PANEL.
- CAP AND REMOVE EX DHW & DCW PIPING TO AND FROM TANK
- EX WASHING MACHINE TO REMAIN

### LAUNDRY RM DEMO PLAN

SCALE: 3/8" = 1'-0"

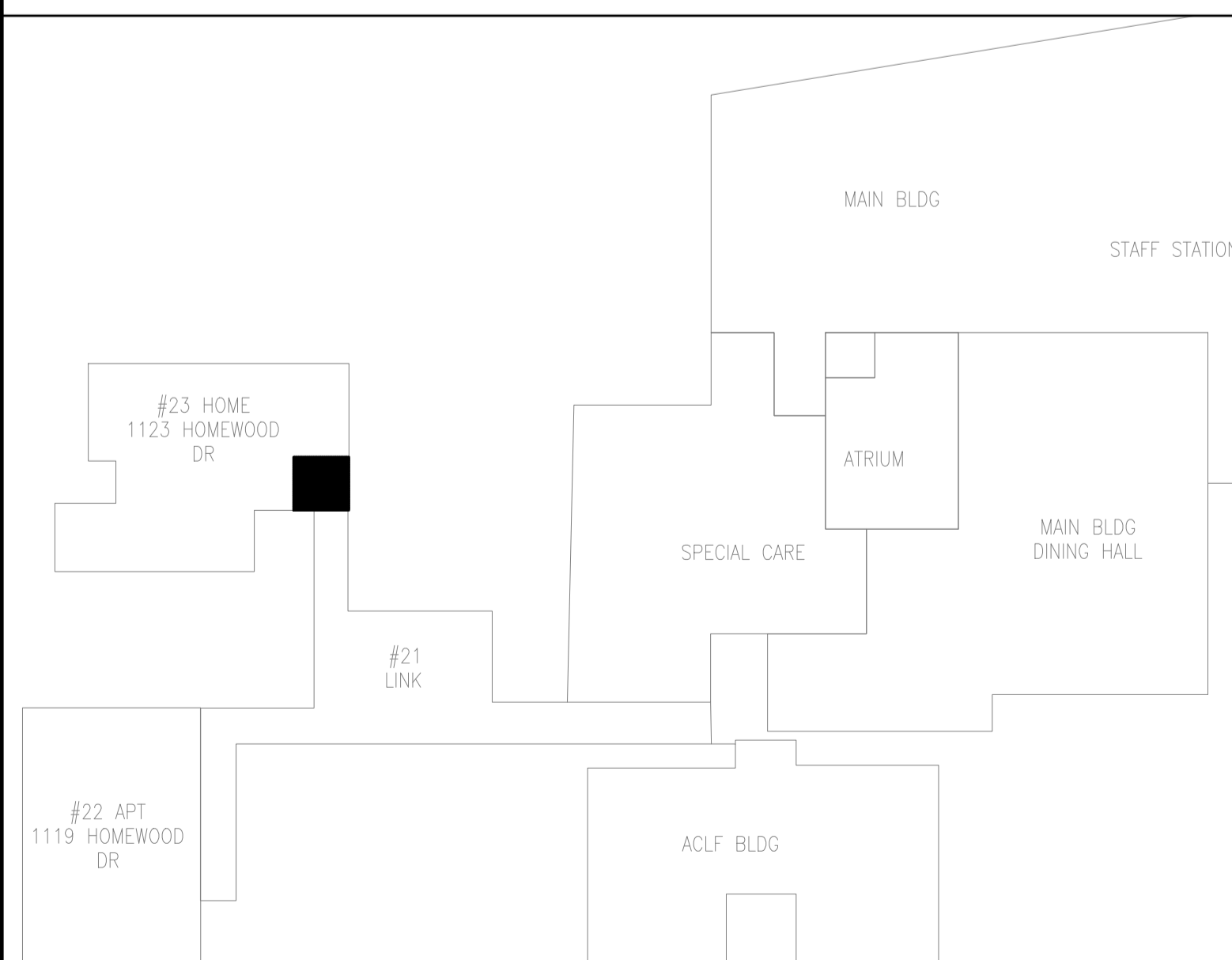
#23 HOME  
1123 HOMEWOOD  
DR



- EX FURNACE AND ASSOCIATED DUCTWORK TO REMAIN
- INSTALL NEW HIGH-EFFICIENCY HWT. RECONNECT GAS PIPING AND EXTEND NEW 2"Ø CPVC FLUE PIPING OUT THRU WALL
- RECONNECT EX DCW & DHW PIPING TO NEW HWT
- EX WASHING MACHINE TO REMAIN

### LAUNDRY RM NEW PLAN

SCALE: 3/8" = 1'-0"



### PLUMBING FIXTURE SCHEDULE

**HWT HOT WATER SYSTEM – STORAGE TYPE – NATURAL GAS OR PROPANE**  
 A.O. SMITH BTH-120 NG, 95% THERMAL EFFICIENCY, INPUT RATING OF 120,000BTU/H, 138GPH (522LPH) RECOVERY AT 100°F, 160 PSI MAXIMUM HYDROSTATIC WORKING PRESSURE. NATURAL GAS, SPIRAL SHAPED, GLASS LINED HEAT EXCHANGER, HIGH EFFICIENCY MODULATING PRE-MIX POWERED BURNER, ADVANCE ELECTRONIC GAS CONTROL SYSTEM, DIRECT SPARK IGNITOR, 60 GALLONS (227 LITERS) STORAGE CAPACITY, STEEL TANK CONSTRUCTION, POWERED ANODES FOR CORROSION PROTECTION, BLUE DIAMOND GLASS-LINED, 3 YEAR LIMITED WARRANTY AGAINST LEAKS. POWER VENT OR DIRECT VENT DESIGN OPTIONS. U.S. DEPARTMENT OF ENERGY AND CURRENT EDITION OF ASHRAE/IESNA 90.1 THERMAL EFFICIENCY COMPLIANT, ANSI Z21.10.3 – CSA 4.3 STANDARDS, UL TO NSF STANDARD 5 DESIGN CERTIFIED, SCAQMD RULE 1146.2 AND OTHER AIR QUALITY MANAGEMENT DISTRICTS WITH SIMILAR REQUIREMENTS FOR LOW NOX EMISSIONS COMPLIANT. 120V, 60HZ, 1Ø AND 15 AMPS. APPROVED VENT AND INTAKE AIR PIPE MATERIALS: ULC S636 PVC / CPVC, ULC S636 POLYPROPYLENE, AL29-4C STAINLESS STEEL

GENERAL NOTES:  
 CONTRACTOR TO CHECK DRAWINGS AND VERIFY DIMENSIONS ON THE JOB  
 REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION OR SHOP FABRICATION.  
 DO NOT SCALE DRAWINGS.  
 ALL DRAWINGS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF PROBUILD ENGINEERING INC.  
 REPRODUCTION OF DRAWINGS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION FROM PROBUILD ENGINEERING INC.



APPROVED BY:  
  
 MANPREET SINGH  
 100201525  
 25-08-05  
 PROVINCE OF ONTARIO

REV.	DATE	NAME	DESCRIPTION
01			
02			
03			
04	MAY 13, 26	MSK	ISSUED FOR TENDER ADD-01
05	MAR 26, 26	MSK	ISSUED FOR TENDER
06	JUN 11, 25	MSK	ISSUED FOR REVIEW
07	MAY 23, 25	MSK	ISSUED FOR REVIEW

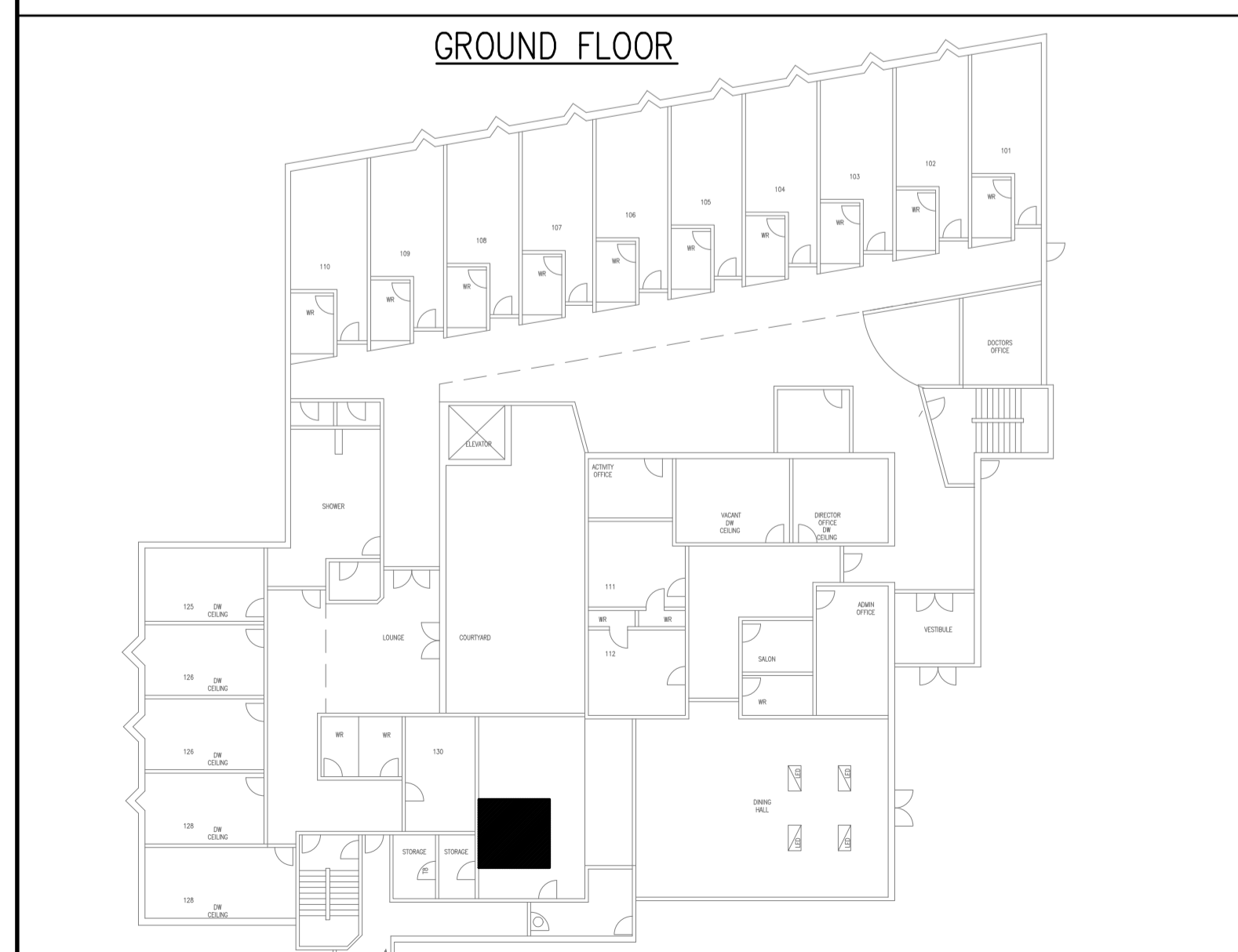
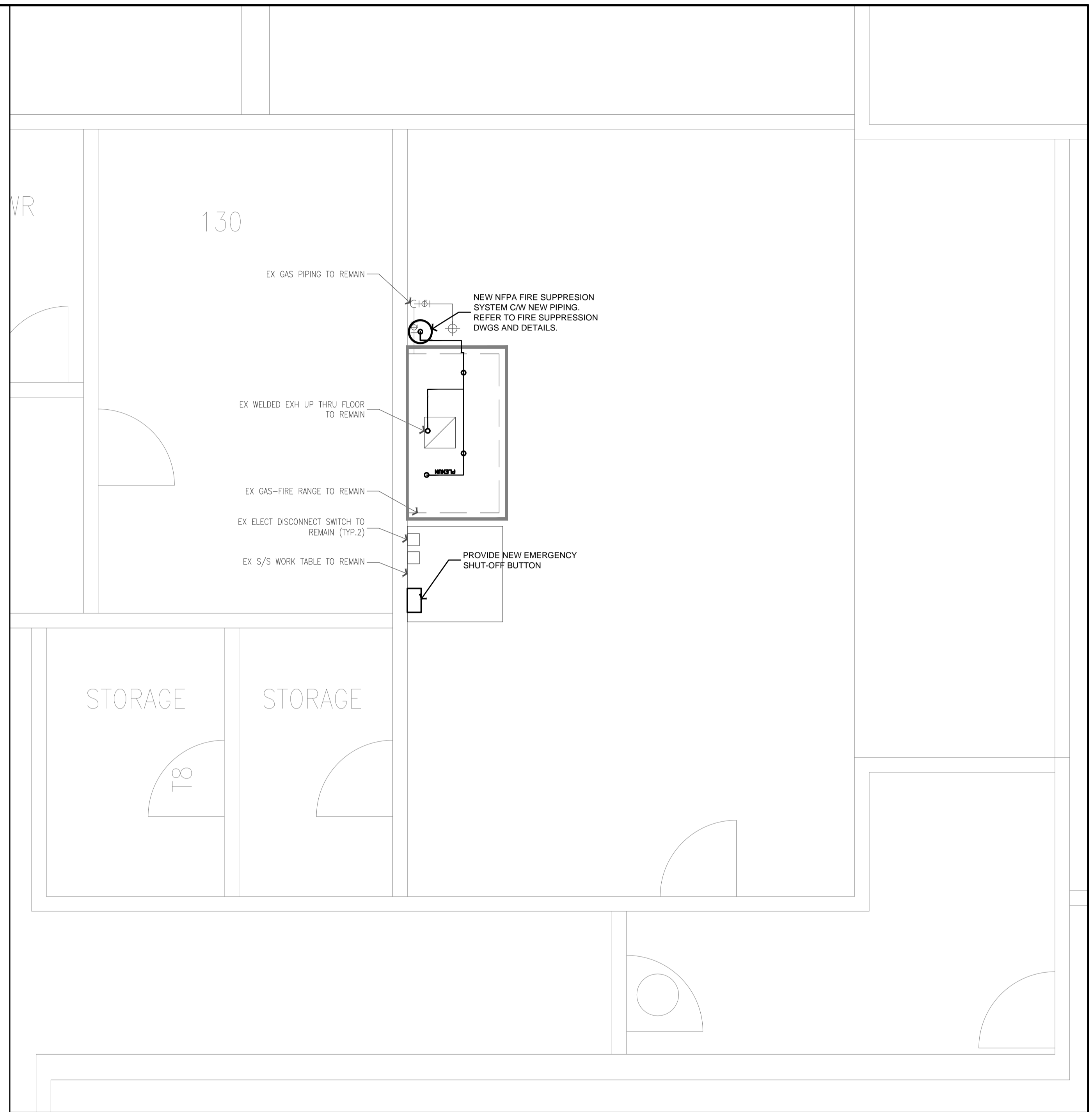
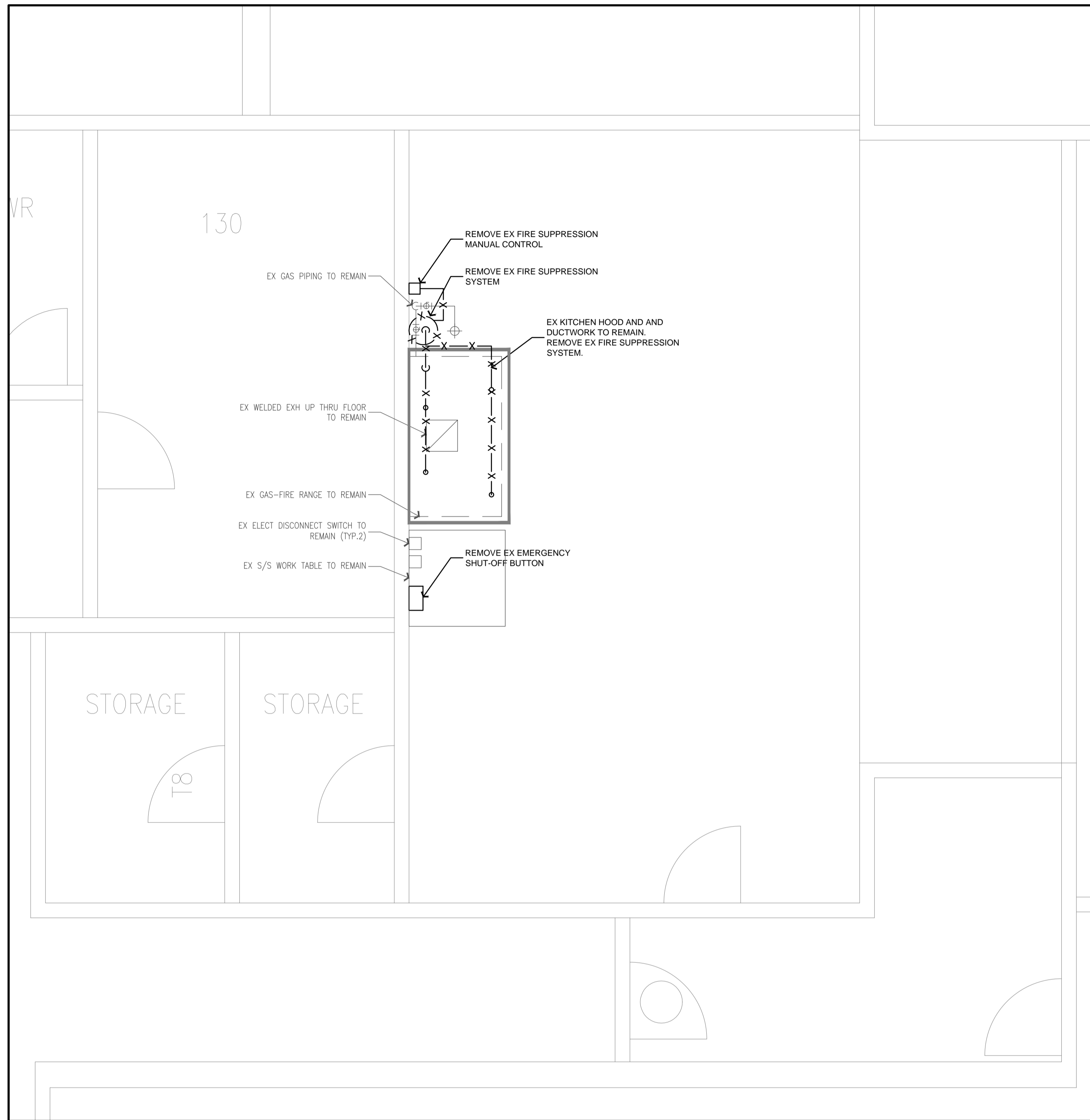
CLIENT:  
 CONSULTANT:  
**PROBUILD ENGINEERING**  
 50 Shandon Dr.,  
 Toronto ON M1R 4M5, Canada  
 Tel: (416) 671-0054  
 www.ProBuildEngineering.ca  
 info@ProBuildEngineering.ca

PROJECT NAME:  
 BUILDING UPGRADES  
 BETHANY RESIDENCE  
 2387 INDUSTRIAL ST.  
 BURLINGTON ON

DRAWING TITLE:  
 1123 HOMEWOOD DR  
 GROUND FLOOR PLAN  
 (LAUNDRY RM)

PROJECT NO:  
 MK-2025-03  
 FILE NO:  
 PBE-25-03  
 DATE: MAY 2025  
 SCALE: AS NOTED  
 DRAWN BY: IE  
 CHECKED BY: MSK





**KITCHEN HOOD DEMO PLAN**  
SCALE: 3/8" = 1'-0"

**MAIN BLDG GROUND FLOOR KEY PLAN**  
NTS

**KITCHEN HOOD NEW PLAN**  
SCALE: 3/8" = 1'-0"

GENERAL NOTES:  
CONTRACTOR TO CHECK DRAWINGS AND VERIFY DIMENSIONS ON THE JOB.  
REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION OR SHOP FABRICATION.  
DO NOT SCALE DRAWINGS.  
ALL DRAWINGS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF PROBUILD ENGINEERING INC.  
REPRODUCTION OF DRAWINGS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION FROM PROBUILD ENGINEERING INC.



APPROVED BY:  
  
MANPREET SINGH  
100201525  
25-08-05  
PROVINCE OF ONTARIO

REV.	DATE	NAME	DESCRIPTION
04	MAY 13, 26	MSK	ISSUED FOR TENDER ADD-01
03	MAR 26, 26	MSK	ISSUED FOR TENDER
02	JUN 11, 25	MSK	ISSUED FOR REVIEW
01	MAY 23, 25	MSK	ISSUED FOR REVIEW

CLIENT:  
CONSULTANT:

**PROBUILD ENGINEERING**  
50 Shandon Dr.,  
Toronto ON M1R 4M5, Canada  
Tel: (416) 671-0054  
www.ProBuildEngineering.ca  
info@ProBuildEngineering.ca

PROJECT NAME:  
BUILDING UPGRADES  
BETHANY RESIDENCE  
2387 INDUSTRIAL ST.  
BURLINGTON ON

DRAWING TITLE:  
MAIN BLDG  
KITCHEN HOOD  
REPLACEMENT  
PART 1

PROJECT NO:  
MK-2025-03  
FILE NO:  
PBE-25-03  
DATE: MAY 2025  
SCALE: AS NOTED  
DRAWN BY: IE  
CHECKED BY: MSK  
DRAWING NO:  
**M7**

SECTION 21 23 00  
WET- CHEMICAL FIRE-EXTINGUISHING SYSTEMS  
TAG: TANK Fire Suppression

PART 1 - GENERAL

1.1 SUMMARY

A. TANK Fire Suppression is a pre-engineered, stored-pressure wet chemical solution extinguishing system.

1.2 SUBMITTALS

A. The manufacturer assumes no liability for the use or results of use from this document. Specifications are to be reviewed by the engineer to confirm the requirements of the project and meet Federal, State, and Local codes.

B. As the manufacturer continues product development, it reserves the right to change design and specifications without notice.

1.3 QUALITY ASSURANCE

A. The TANK Fire Suppression System is ETL Listed in accordance with ANSI/CAN/UL/ULC 300, ULCORD-C 1254.6.

B. Microprocessor-based control board shall be ETL Listed to UL Standard 864 and CAN/ULC-S527-11.

C. TANK Fire Suppression System intended for installation and for use in accordance with the National Fire Protection Association Standards:

1. Wet Chemical Extinguishing Systems, NFPA 17A
2. National Electrical Code, NFPA 70
3. National Fire Alarm & Signaling Code, NFPA 72

D. New York City and FDNY approved under COA# 5870.

E. California State Fire Marshal (CFSM), Listing No. 7085-21990502.

1.4 WARRANTY

A. All units shall be provided with the following standard warranties:

1. TANK Fire Suppression System is warranted to be free from defects in materials and workmanship, under normal use and service, for a period of 60-months from date of shipment.

B. Warranty does not cover consumable products such as batteries and nitrogen.

C. The manufacturer shall not be liable for incidental and consequential losses and damages potentially attributable to malfunctioning equipment. Should any part of the equipment prove to be defective in material or workmanship within the 60-month warranty period, upon examination by the manufacturer, such part will be repaired or replaced by manufacturer at no charge. The buyer shall pay all labor costs incurred in connection with such repair or replacement. Equipment shall not be returned without manufacturer's prior authorization, and all returned equipment shall be shipped by the buyer, freight prepaid to a destination determined by the manufacturer.

D. Refer to Manufacturer's Operation, Installation, and Maintenance (OIM) Manual for detailed descriptions of what is/is not covered and contact information for warranty claims.

PART 2 - PRODUCTS

2.1 GENERAL

A. A pre-engineered, fixed pipe, automatic wet chemical agent fire suppression system for protection of all hazard areas associated with cooking operations, including exhaust hoods, plenums, ductwork, and cooking appliances.

2.2 COMPONENTS

A. Exhaust hood fire system components to be factory installed.

B. Cylinder and Valve Assembly

1. The cylinders shall have a tin-nickel alloy plated brass valve with pressure gauge.
2. Wet chemical agent shall be contained in one or more stored pressure DOT/TC rated steel cylinder and valve assemblies.
3. Each cylinder is factory-filled with liquid fire suppressant and pressurized to 200 PSIG at 70°F.
4. Maximum cylinder flow points = 20.

C. Distribution Nozzles

1. Nozzles shall be located to protect the exhaust ducts, plenums, and all cooking appliances requiring protection.
2. All nozzles shall be equipped with a metal blow off cap. The cap prevents contamination from entering the pipe network and is designed to pop-off upon system discharge, allowing agent to flow to the protected hazard area.
3. All nozzles shall incorporate a stamped part number to easily identify nozzle type.

D. Distribution System

1. The distribution system shall consist of Copper, Schedule 40 black iron, chrome-plated or stainless-steel pipe and fittings. All exposed piping and fittings must be chrome-plated or stainless steel.
2. Fittings shall be minimum class 150. Galvanized fittings shall not be used.

E. Suppression System

1. The system control equipment shall be capable of all functions associated with automatically and manually discharging the wet chemical agent from all cylinder and valve assemblies, including automatic shutdown of the heat source or fuel and electrical power to all protected areas upon system discharge.
2. Liquid Fire Suppressant shall be Aqueous Potassium Carbonate (APC).
3. All mechanical components of the actuator kit shall be enclosed.
4. The actuator kit shall be capable of automatic or manual activation means.
5. Supervisory Pressure Switch added to monitor operating system pressure.
6. For manual activation, an electrically operated manual release shall be used to actuate the system manually.
7. For automatic activation, the system will be activated by a Firestat (heat) detector.

F. Electrical

1. Electrical Division to provide shunt trip breakers at main power panel, or disconnects, as designated by the Electrical Engineer; interconnection provided at hood control panel for the signal to shut down all electricity in and under the exhaust hood. Shunt trips/disconnects to accomplish shut off of electricity in the event of fire system activation by others.
2. Printed circuit board with microprocessor-based controller that provides all the necessary monitoring, timing, and supervision functions required for the reliable operation of the fire system.
3. Independent supervised loops incorporate redundancy and fault detection.
4. Real-time cloud-based monitoring connection provided with system by ownership.
5. Primary power supply, with battery backup for power loss.
6. All wiring must be in accordance to NFPA 70 and the Authority Having Jurisdiction (AHJ).
7. Electric gas valve provided for equipment below exhaust hood. Coordinate size and installation with Plumbing Division.
8. All wiring is to be in accordance with the applicable manufacturer's instructions for the fire alarm control panel, gas shut-off valve, manual reset relay, and contractor supplied shut-off devices.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas and conditions under which the system is installed. Do not proceed with work until unsatisfactory conditions have been corrected in manner acceptable to Installer.

3.2 APPLICATION

A. Wet chemical-based fire suppression system for use in commercial kitchens. It can be mounted in the integral cabinet located at the end of the hood or offered as a wall mount package.

3.3 INSTALLATION

- A. As part of this item, provide wall mounted type K handheld portable fire extinguisher, placard, and mounting bracket as required in the immediate vicinity of each cooking area, per NFPA-96 and NFPA-10. Additional fire extinguishers as required in the kitchen area are to be specified by the Architect and provided by the General Contractor.
- B. Install in accordance with manufacturer's instructions, drawings, written specifications, manufacturer's installation manual, and all applicable building codes.
- C. Six-month and twelve-month inspections, servicing, and replacement of components as per NFPA 96 to be provided by the General Contractor or Owner.

GENERAL NOTES:

CONTRACTOR TO CHECK DRAWINGS AND VERIFY DIMENSIONS ON THE JOB.  
REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION OR SHOP FABRICATION.  
DO NOT SCALE DRAWINGS.  
ALL DRAWINGS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF PROBUILD ENGINEERING INC.  
REPRODUCTION OF DRAWINGS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION FROM PROBUILD ENGINEERING INC.



APPROVED BY:



REV.	DATE	NAME	DESCRIPTION
01			
02			
03			
04	MAY 13, 26	MSK	ISSUED FOR TENDER ADD-01
05	MAR 26, 26	MSK	ISSUED FOR TENDER
06	JUN 11, 25	MSK	ISSUED FOR REVIEW
07	MAY 23, 25	MSK	ISSUED FOR REVIEW

CLIENT:

CONSULTANT:

**PROBUILD ENGINEERING**

50 Shandon Dr.,  
Toronto ON M1R 4M5, Canada  
Tel: (416) 671-0054  
www.ProBuildEngineering.ca  
info@ProBuildEngineering.ca

PROJECT NAME:

BUILDING UPGRADES  
BETHANY RESIDENCE  
2387 INDUSTRIAL ST.  
BURLINGTON ON

DRAWING TITLE:

KITCHEN HOOD  
FIRE SUPPRESSION  
SYSTEM SPECIFICATIONS

PROJECT NO:

MK-2025-03

FILE NO:

PBE-25-03

DATE: MAY 2025

SCALE: AS NOTED

DRAWING NO:

DRAWN BY: IE

CHECKED BY: MSK

**M8**

**FIRE SYSTEM INFORMATION - JOB#7649475**

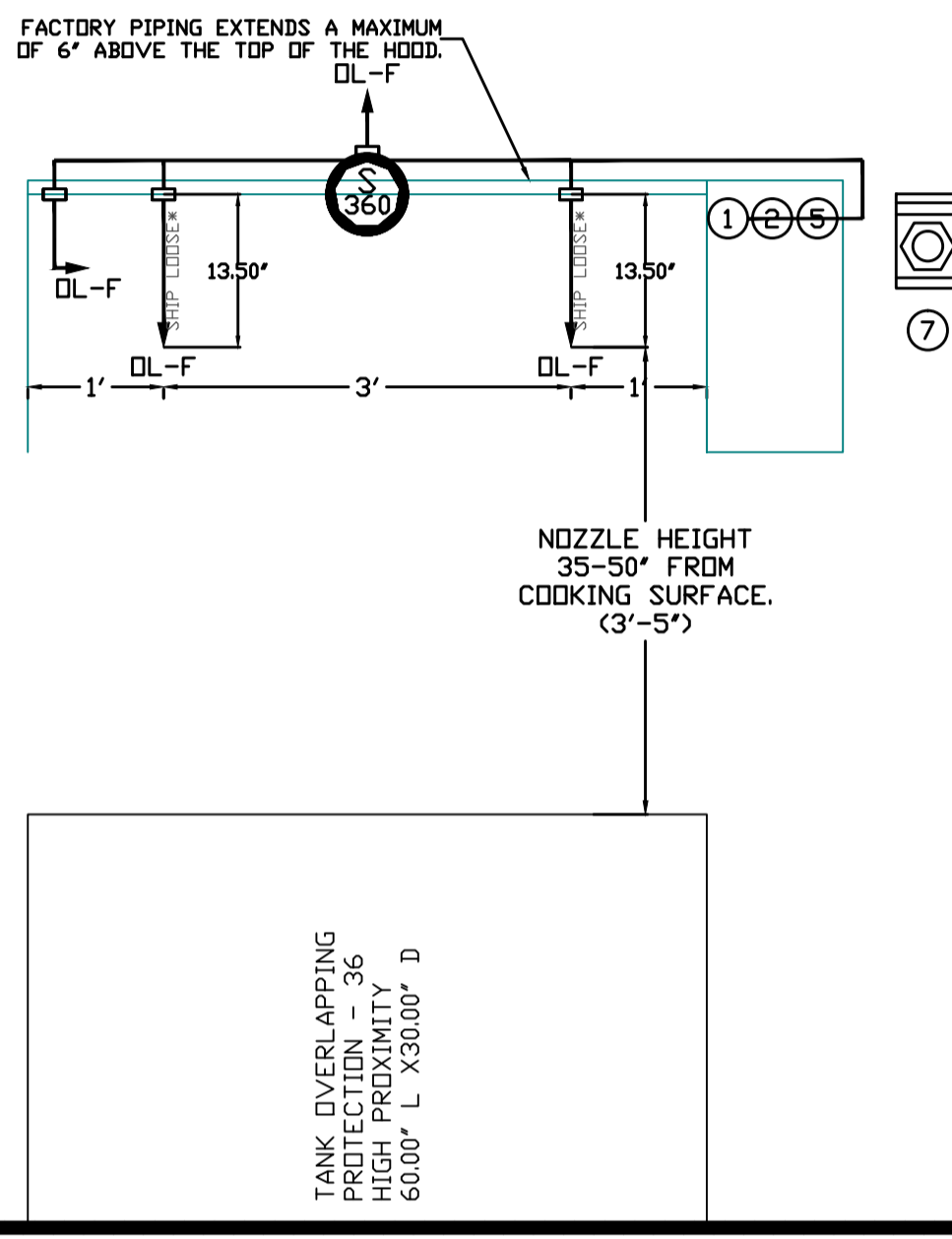
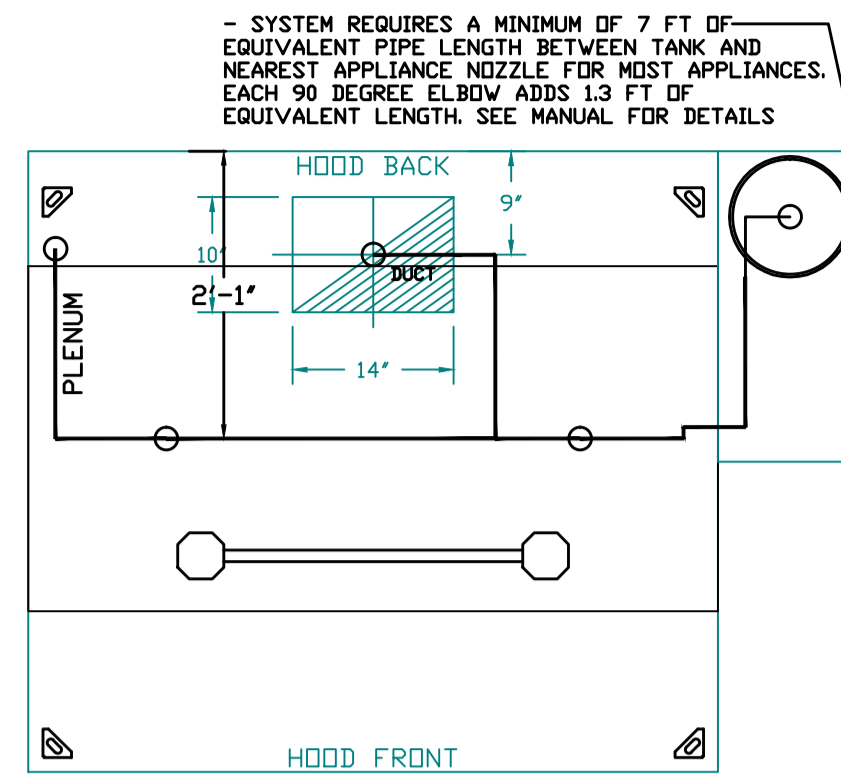
FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0	20	16	FIRE CABINET RIGHT	RIGHT, HOOD 1

**GAS VALVE(S)**

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	1.500	CAPTIVEAIRE SYSTEMS

**FIRE SYSTEM PARTS LIST KEY**

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
0 - 0 -		TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
0 - 0 -		TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	0
0 - 0 -		12-F28021-32144-0T-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO. CLOSE ON TEMP RISE AT 360°F. (A0034310).	1	0
0 - 0 -		32-30002 QUIK SEAL - 1/2" (UL).	1	0
0 - 0 -		4429K153 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	1	0
0 - 0 -		4429K422 1/2" X 1/4" BRASS REDUCING BUSHING.	1	0
0 - 0 -		79525 1/2" 90 PRO-PRESS ELBOW WITH 1/2" NPT FEMALE CONNECTION, VIEGA.	1	0
0 - 0 -		79580 1/2" X 1/2" PRO-PRESS TEE X 1/2" NPT FEMALE CONNECTION, VIEGA.	1	0
0 - 0 -		87-30001-001 TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	1	0
0 - 0 -		87-30003-001 PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
0 - 0 -		87-30003-001 DIN CONNECTOR, CANFIELD PART #5J560-201-EU0A, TANK FIRE SUPPRESSION, SUBMINATURE SOLENOID CONNECTION (CED VENDOR 30377).	1	0
0 - 0 -		87-30015-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	4	0
0 - 0 -		9055455PC PRO PRESS 1/2 PRESS X PRESS 90 ELBOW LD.	4	0
0 - 0 -		9097200PC PRO PRESS PC611 1/2 PRESS TEE LD.	3	0
0 - 0 -		98694A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	2	0
0 - 0 -		A0034332 JUNCTION BOX FOR MANUAL PULL STATION. 1.5" DEEP BACK BOX, RED COLOR.	1	0
0 - 0 -		A31484 1/4" NPT SCHRADER VALVE AND CAP, JB INDUSTRIES. 1/4" FLARE X 1/4" MPT HALF UNION. USED ON TANK SERVICE PURT.	1	0
0 - 0 -		B1145 3/8" BLACK IRON 90 ELL.	2	0
0 - 0 -		DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	1	0
0 - 0 -		TANK STRAP TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	3	0
0 - 0 -		TFS-UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	1	0
0 - 0 -		WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	1	0
16 - 16 -		79210 1/2" X 3/8" NPT MALE ADAPTER, VIEGA.	4	0
16 - 16 -		DL-F NOZZLE - TANK PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL BLOW OFF CAP, LANYARD, USED WITH CHROME-PLATED PIPE).	4	0
26 - 26 -		QSA-3/8 QUIK SEAL - 3/8" (UL).	4	0
34 - 34 -		A0034331 RED COLOR - 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT.	1	0



**NOTES**

- FIELD PIPE DROPS AS SHOWN
- PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6' ABOVE THE TOP OF THE HOOD.
- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.
- THIS PRE-ENGINEERED FIRE SYSTEM COMPLIES WITH UL 300 REQUIREMENTS.

DL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS  
 JOB #: 7649475.  
 JOB NAME: RESTAURANT - 3313 SUPERIOR CRT DAKVILLE.

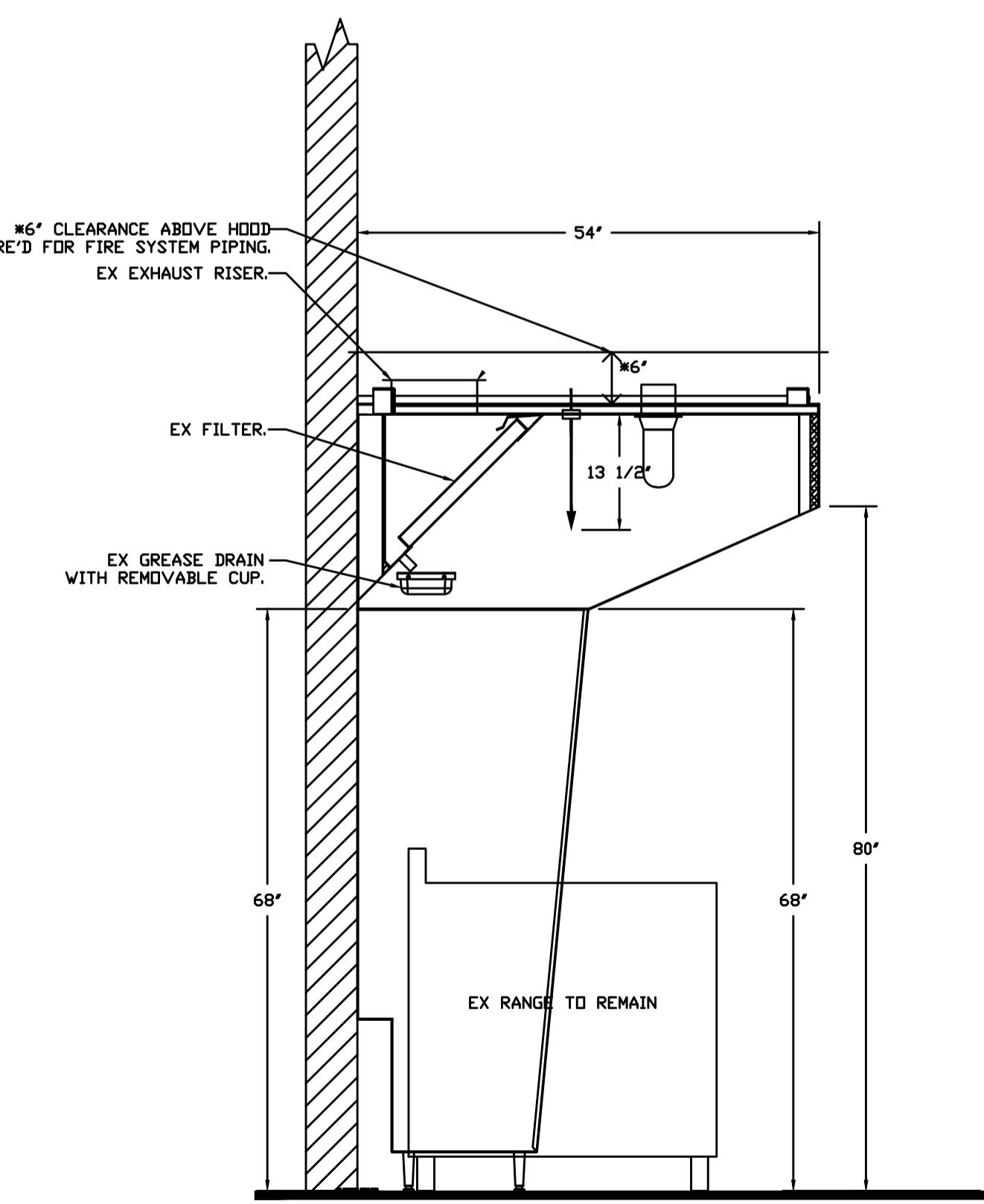
SYSTEM SIZE: TANK-SP-1 DESIGN FP: 16, MAXIMUM FP: 20.  
 HOOD # 1 5' 0.00" LONG X 54" WIDE X 12" HIGH.  
 RISER # 1 SIZE: 10' X 14"  
 HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.  
 - MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

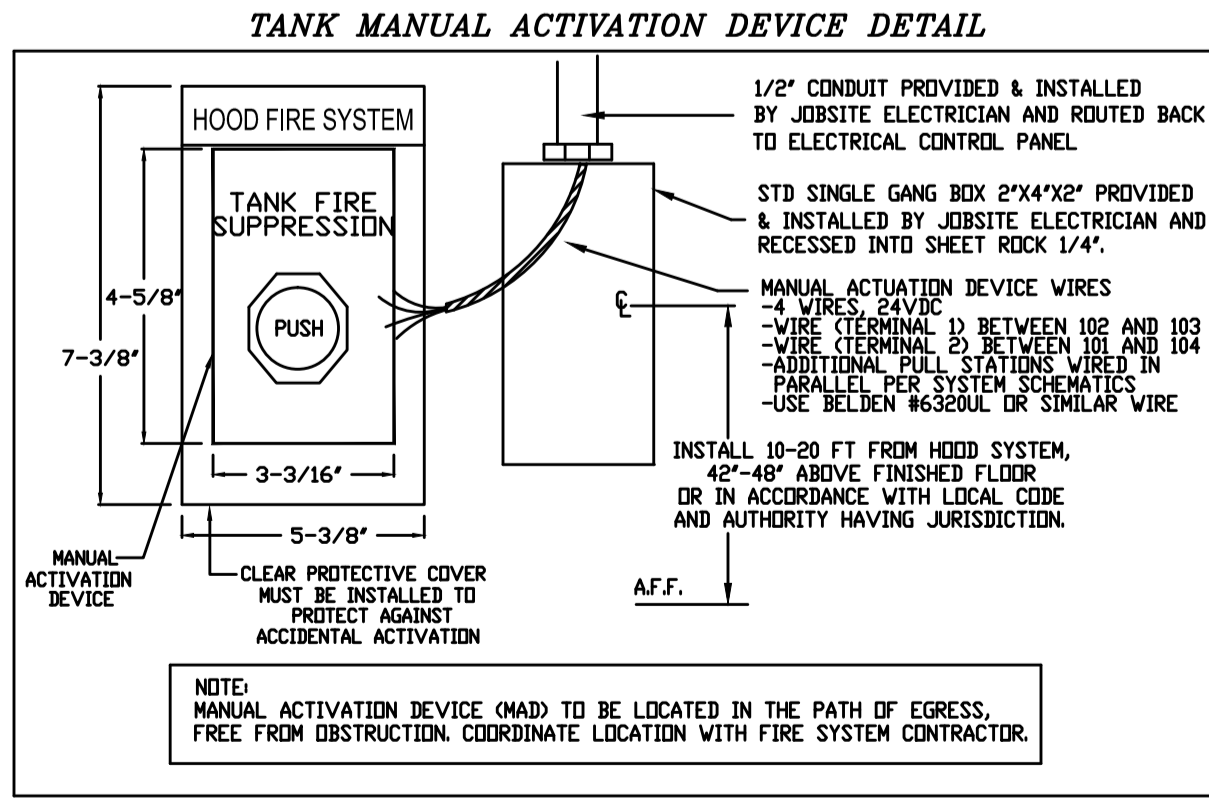
AGENT DISTRIBUTION PIPING LIMITATIONS	
PIPE SECTION	MAX PIPE LENGTH (FT)
MAX SUPPLY LINE TO FIRST OVERLAPPING NOZZLE	42
OVERLAPPING NOZZLE APPLIANCE BRANCH	10
DEDICATED NOZZLE APPLIANCE BRANCH	10

**LEGEND - FIRE CABINET TANK SYSTEM**

- 4 GALLON TANK.
- PRIMARY ACTUATOR RELEASE.
- SECONDARY ACTUATOR RELEASE.
- PRESSURE SUPERVISION SWITCH.
- PRIMARY HOSE ASSEMBLY.
- SECONDARY HOSE ASSEMBLY.
- REMOTE MANUAL ACTUATION DEVICE.



**ELEVATION VIEW**

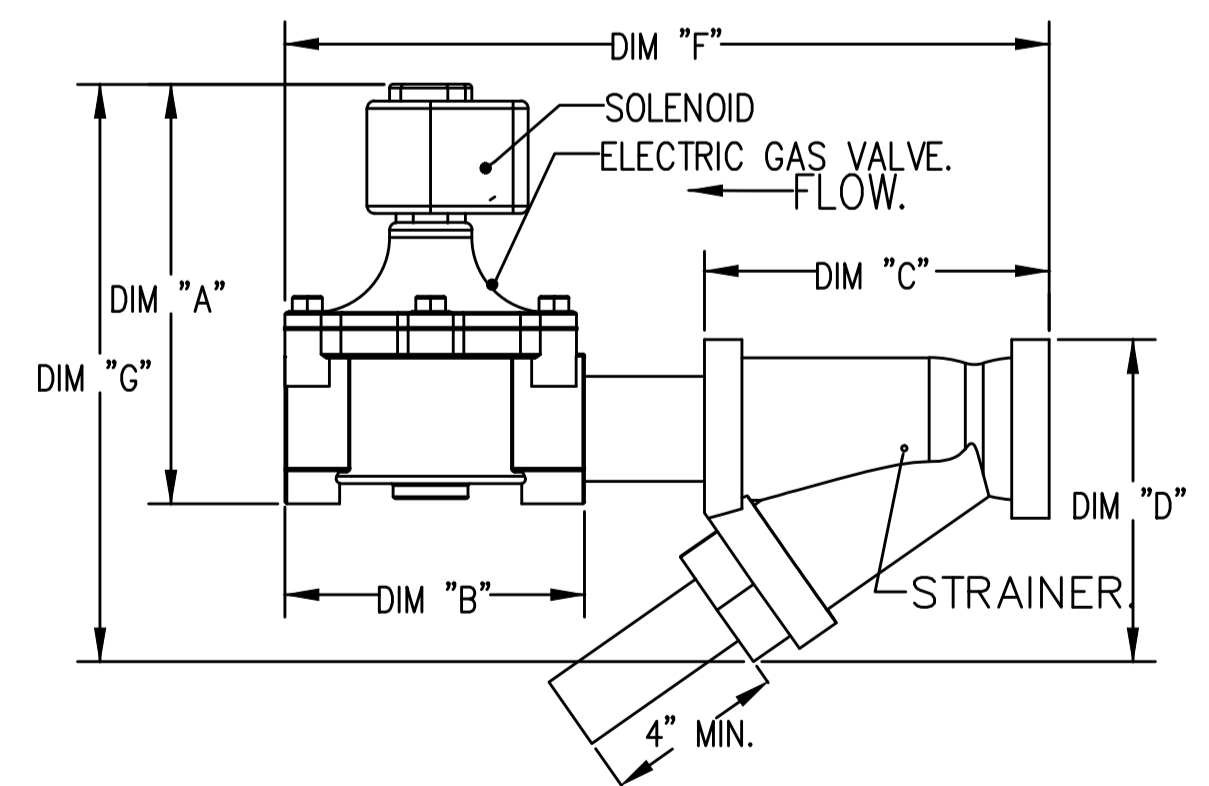


GAS VALVES AND STRAINERS															
TYPE	SIZE	VOLTAGE	GAS VALVE SIZING			GAS VALVE DIMENSIONS					INSTALLATION	PART NUMBERS			
			MIN. INLET PRESSURE	MAX. INLET PRESSURE	FLOW AT 1 IN.W.C. DROP NATURAL GAS	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "F"		DIM "G"	PIPE ORIENTATION	GAS VALVE PART NUMBER	STRAINER PART NUMBER
ELECTRICAL	1-1/2"	120 VAC	0 PSI (0 IN.W.C.)	5 PSI (138 IN.W.C.)	2,406,000 BTU/HR	7-5/8"	6-3/8"	5-3/4"	6-3/16"	14-1/8"	12-5/16"	HORIZONTAL/VERTICAL	8214275	4417K67	(SC)EJVAT-1/2

**ELECTRIC GAS VALVES ONLY: SOLENOID ORIENTATION**  
 3/4"-2" 120VAC GAS VALVES CAN BE MOUNTED WITH THE SOLENOID IN ANY POSITION AT OR ABOVE HORIZONTAL.  
 2 1/2"-3" 120VAC GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT.  
 24VDC GAS VALVES MUST BE MOUNTED WITH THE SOLENOID VERTICAL AND UPRIGHT.

**ALL GAS VALVES/STRAINERS**  
 PROPER CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE STRAINERS A MINIMUM OF 4" CLEARANCE DISTANCE MUST BE PROVIDED AT THE BASE OF THE STRAINER CUSTOMER MUST VERIFY BTU CONSUMPTION AS WELL AS PRESSURE RATING SPECIFIC GRAVITY OF NATURAL GAS = 0.64, SPECIFIC GRAVITY OF LP = 1.52.

**CALCULATIONS**  
 TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP  
 NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE DROP<sup>0.85</sup>  
 TO CALCULATE GAS FLOW FOR OTHER THAN 0.64 SPECIFIC GRAVITY  
 NEW BTU/HR = (BTU/HR AT 0.64) X (0.64 / NEW SPECIFIC GRAVITY)<sup>0.85</sup>



GENERAL NOTES:  
 CONTRACTOR TO CHECK DRAWINGS AND VERIFY DIMENSIONS ON THE JOB.  
 REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION OR SHOP FABRICATION.  
 DO NOT SCALE DRAWINGS.  
 ALL DRAWINGS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF PROBUILD ENGINEERING INC.  
 REPRODUCTION OF DRAWINGS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION FROM PROBUILD ENGINEERING INC.



REV.	DATE	NAME	DESCRIPTION
01			
02			
03			
04	MAY 13, 2025	MSK	ISSUED FOR TENDER ADD-01
05	MAR 26, 2025	MSK	ISSUED FOR TENDER
06	JUN 11, 2025	MSK	ISSUED FOR REVIEW
07	MAY 23, 2025	MSK	ISSUED FOR REVIEW

CLIENT:  
 CONSULTANT:  
**PROBUILD ENGINEERING**  
 50 Shandon Dr.,  
 Toronto ON M1R 4M5, Canada  
 Tel: (416) 671-0054  
 www.ProBuildEngineering.ca  
 info@ProBuildEngineering.ca

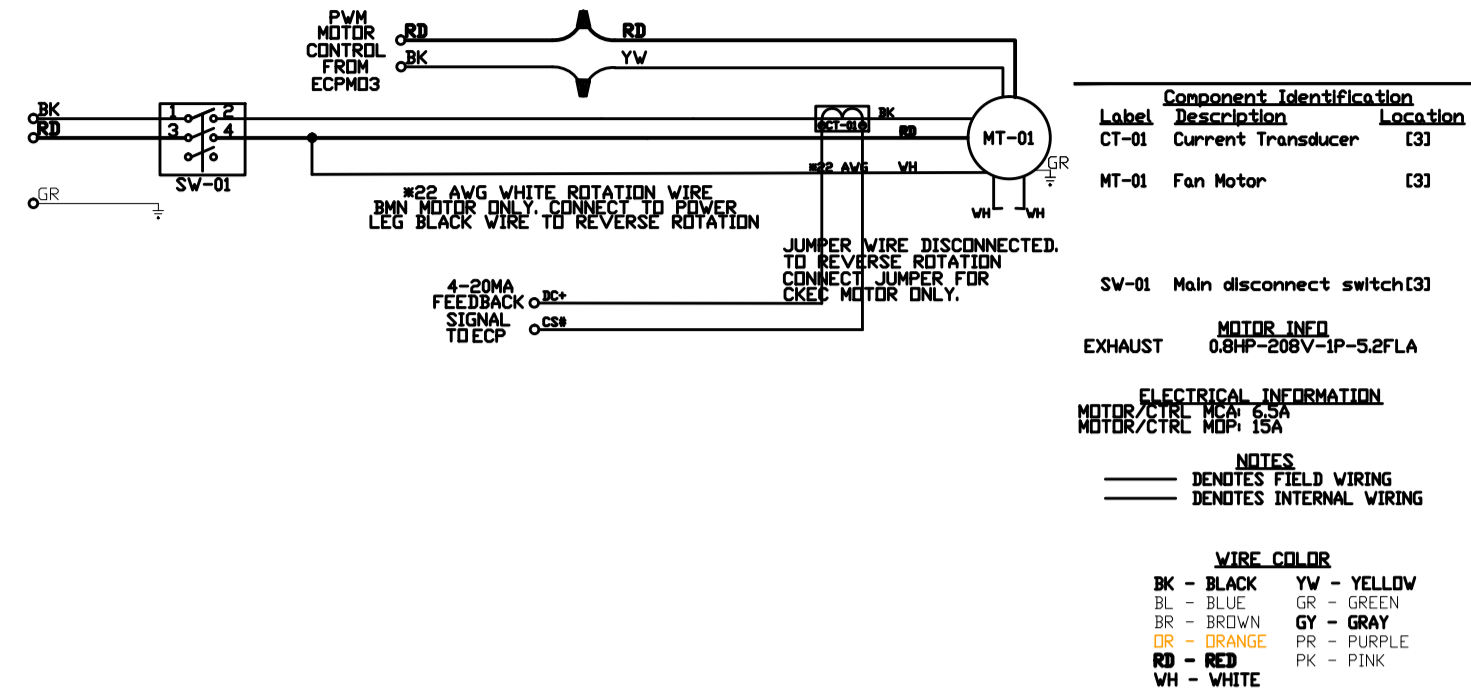
PROJECT NAME:  
 BUILDING UPGRADES  
 BETHANY RESIDENCE  
 2387 INDUSTRIAL ST.  
 BURLINGTON ON

DRAWING TITLE:  
 FIRE SUPPRESSION  
 SYSTEM DETAIL #1

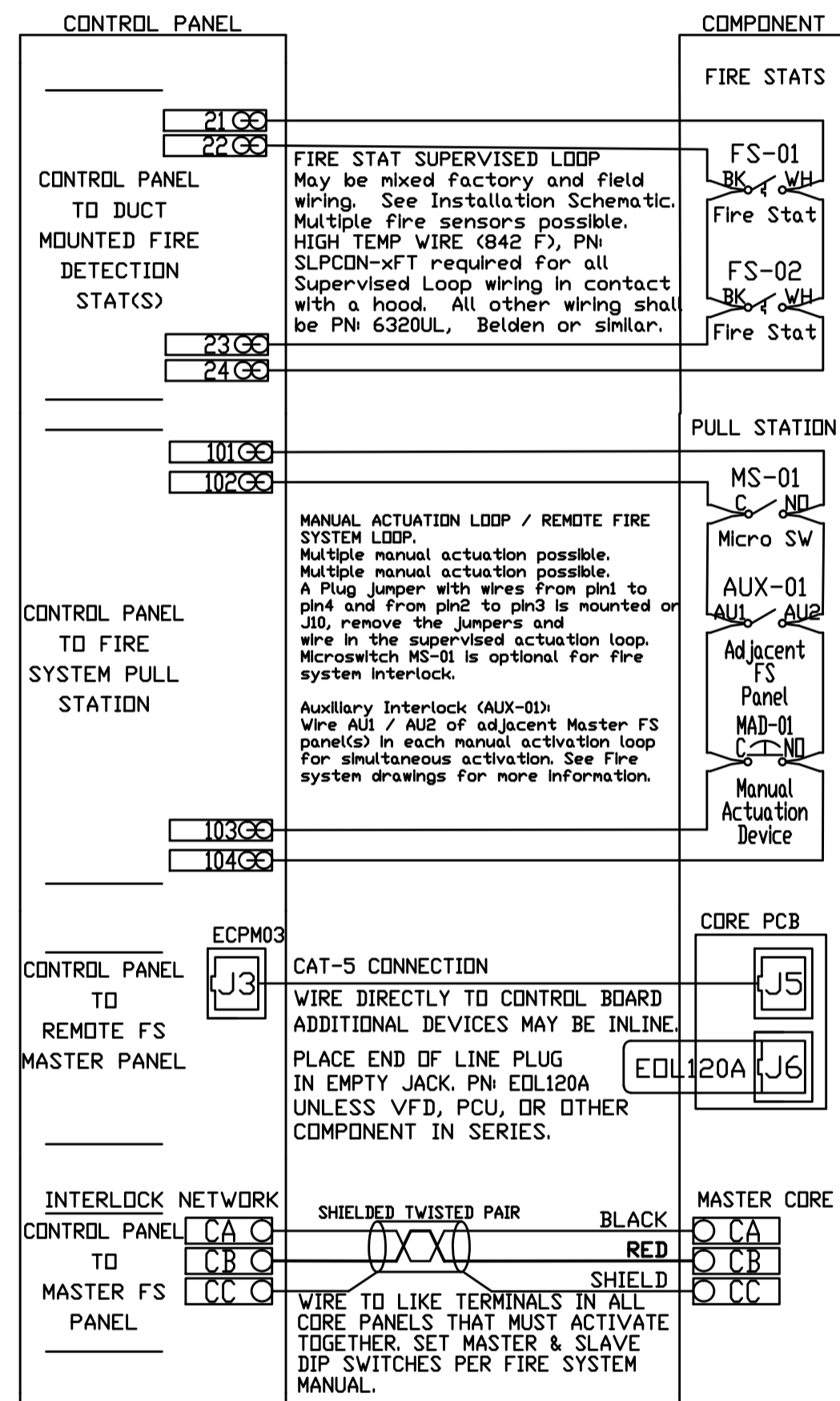
PROJECT NO:  
 MK-2025-03  
 FILE NO:  
 PBE-25-03  
 DATE: MAY 2025  
 SCALE: AS NOTED  
 DRAWN BY: IE  
 CHECKED BY: MSK  
**M9**

Exhaust Fan Wiring		JOB	7649475 - Restaurant - 3313 Superior Cr...		
DRAWING NUMBER	EXH7649475-1	SHIP DATE	7/22/2025	MODEL	DUB081FA

Installed Options



**CONTROL PANEL TO FIRE SYSTEM**  
Responsibility: CERTIFIED INSTALLER



JOB NO	7649475	MODEL NUMBER	SC-211110MA	DRAWN BY		SCHEMATIC TYPE	INSTALL	DESCRIPTION OF OPERATION:	Fire System #1 TANK FS - 4.0
		JOB NAME	Restaurant - 3313 Superior Cr...	DATE	7/22/2025	DWG NO	ECP #1-3		

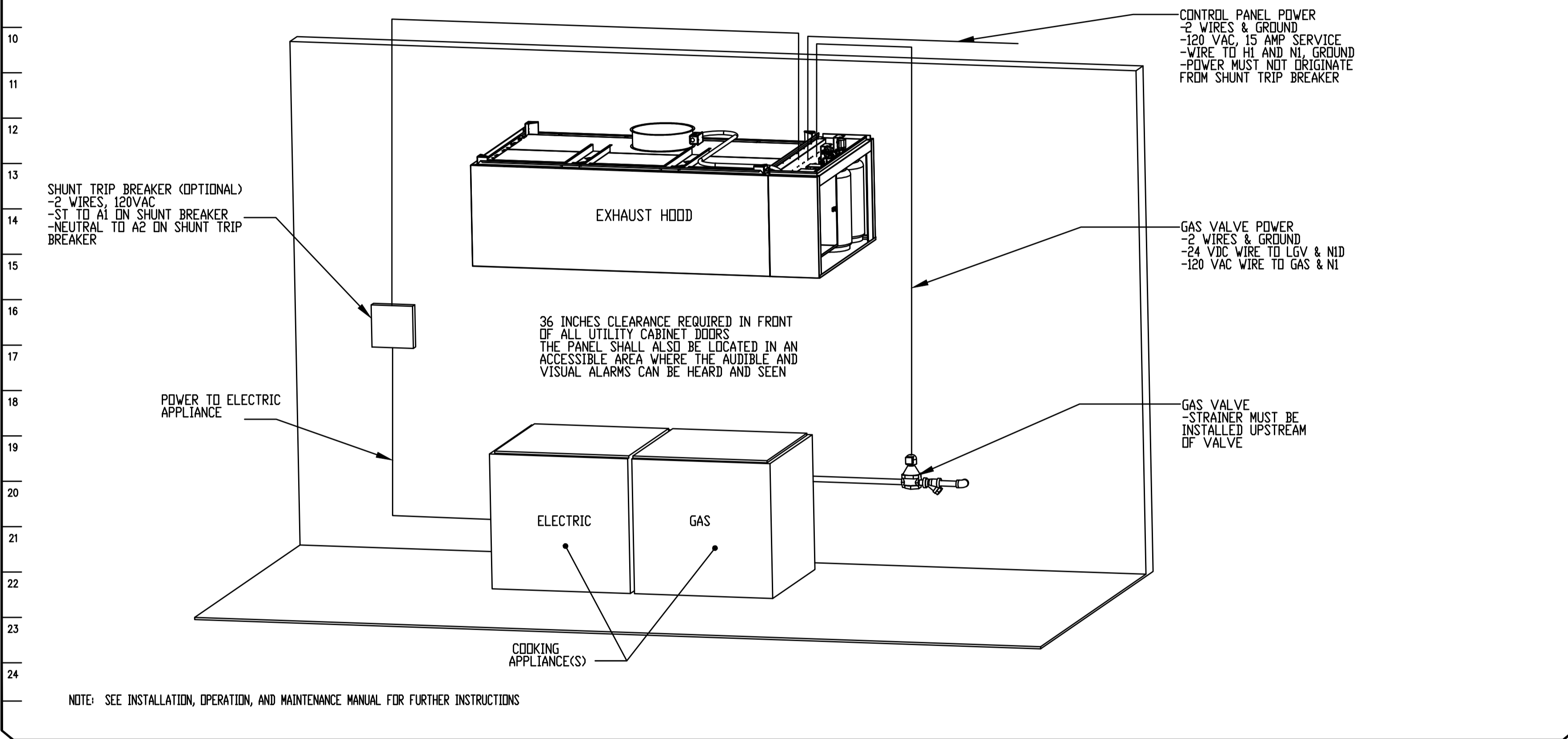
**TANK PROTECTION ELECTRICAL DETAIL**

02/10/2021 Rev. 2

- ELECTRICIAN:**
1. WIRE MAIN CONTROL PANEL PER INCLUDED SCHEMATIC
  2. WIRE ALL FANS PER INCLUDED SCHEMATIC
  3. WIRE SHUNT TRIP BREAKER (OPTIONAL)
  4. WIRE UDS APPLIANCE KILL SWITCH, IF EQUIPPED (OPTIONAL)
  5. WIRE GAS VALVE

FS-1: MASTER

ELECTRICAL CONTRACTOR REQUIREMENT					
ITEM	CONNECTION IN PANEL	CONNECTION IN DEVICE	VOLTAGE	AMPERAGE	COMMENTS
SHUNT TRIP BREAKER (OPTIONAL)	ST & NI	BREAKER COIL (A1 & A2)	120 VAC	< 4 AMPS	ST TO A1 ON SHUNT BREAKER COIL, AND NEUTRAL TO A2 ON SHUNT TRIP BREAKER COIL
CONTROL PANEL POWER	H1 & NI + GROUND	CIRCUIT BREAKER	120 VAC	15 AMPS	CONTROL PANEL POWER MUST NOT BE RUN THROUGH SHUNT TRIP BREAKER
UDS APPLIANCE KILL SWITCH (OPTIONAL)	KTS & NI	KTS & NI	120 VAC	< 4 AMPS	KILL SWITCH TERMINALS MUST BE IN SERIES WITH OTHER KILL SWITCHES
REMOTE 120VAC ANSUL AUTOMAN (OPTIONAL)	AU1, AU2	SOLENOID	120 VAC	< 6 AMPS	120V TO AU1, AU2 TO ANSUL ELECTRIC AUTOMAN, ANSUL SOLENOID TO NEUTRAL
GAS VALVE	LGV & NID (IF 24 VDC) GAS & NI (IF 120 VAC)	RED/RED/GREEN	24 VDC OR 120 VAC	< 1.0 AMPS	IF 24 VDC - 2 WIRES & GROUND, NID TO RED, LGV TO RED, AND GREEN TO GROUND IF 120 VAC - 2 WIRES & GROUND GAS TO RED, NI TO RED, AND GREEN TO GROUND



**GENERAL NOTES:**

CONTRACTOR TO CHECK DRAWINGS AND VERIFY DIMENSIONS ON THE JOB.

REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION OR SHOP FABRICATION.

DO NOT SCALE DRAWINGS.

ALL DRAWINGS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF PROBUILD ENGINEERING INC.

REPRODUCTION OF DRAWINGS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION FROM PROBUILD ENGINEERING INC.

APPROVED BY:

**MANPREET SINGH**  
LICENSED PROFESSIONAL ENGINEER  
100201525  
25-08-05  
PROVINCE OF ONTARIO

REV.	DATE	NAME	DESCRIPTION
04	MAY 13, 26	MSK	ISSUED FOR TENDER ADD-01
03	MAR 26, 26	MSK	ISSUED FOR TENDER
02	JUN 11, 25	MSK	ISSUED FOR REVIEW
01	MAY 23, 25	MSK	ISSUED FOR REVIEW

**PROBUILD ENGINEERING**

50 Shandon Dr.,  
Toronto ON M1R 4M5, Canada  
Tel: (416) 671-0054  
www.ProBuildEngineering.ca  
info@ProBuildEngineering.ca

PROJECT NAME:

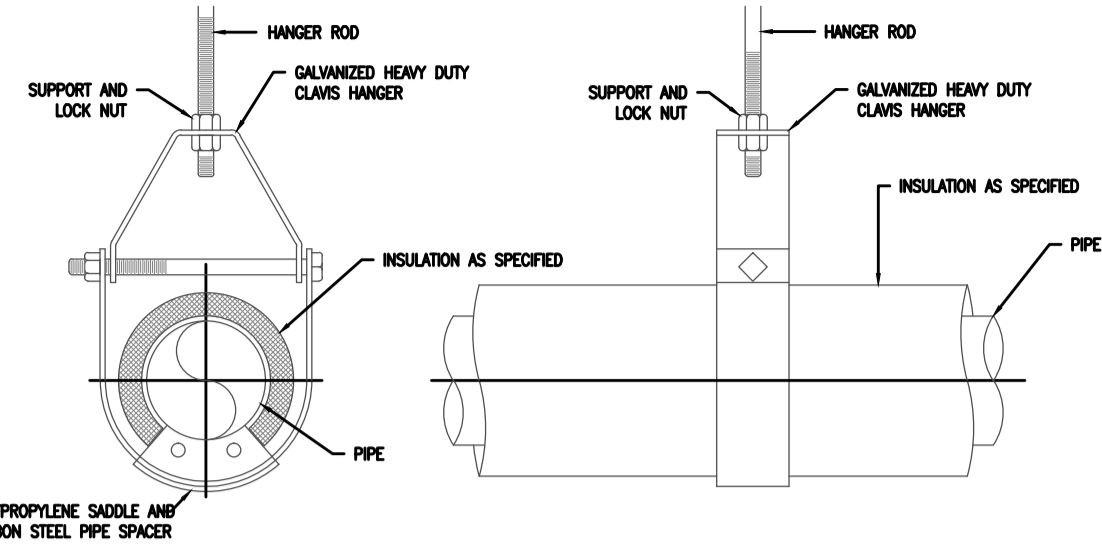
BUILDING UPGRADES  
BETHANY RESIDENCE  
2387 INDUSTRIAL ST.  
BURLINGTON ON

DRAWING TITLE:

FIRE SUPPRESSION  
SYSTEM DETAIL #2

PROJECT NO:	MK-2025-03
FILE NO:	PBE-25-03
DATE:	MAY 2025
SCALE:	AS NOTED
DRAWN BY:	IE
CHECKED BY:	MSK

**M10**

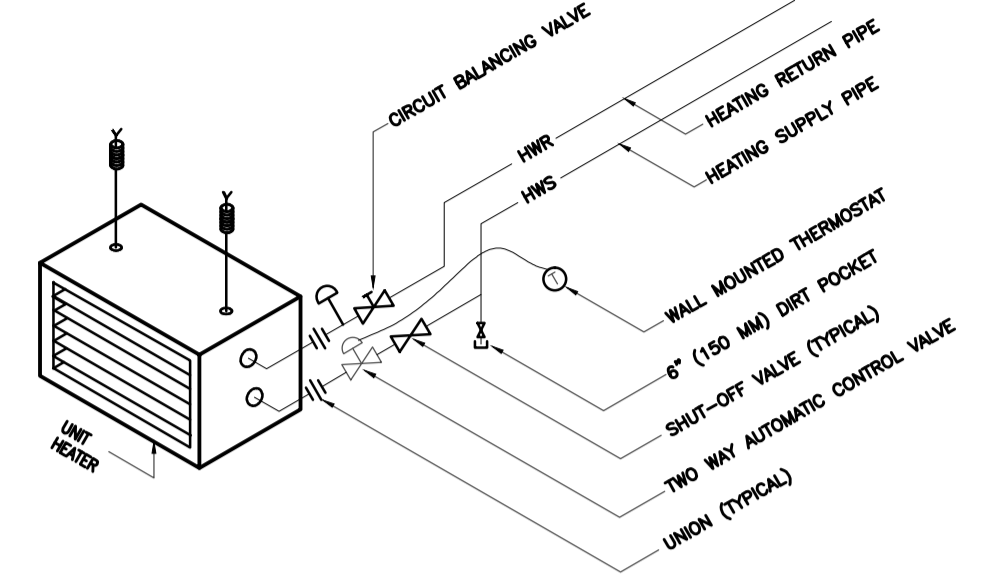


HANGER ROD SIZES				
PIPE SIZE	UP TO 2" (50)	2 1/2" - 3" (63.5-75)	4" - 5" (100-125)	6" - 12" (150-300)
HANGER ROD DIAMETER	3/8" (9.5)	1/2" (12)	5/8" (15.87)	3/4" (20)

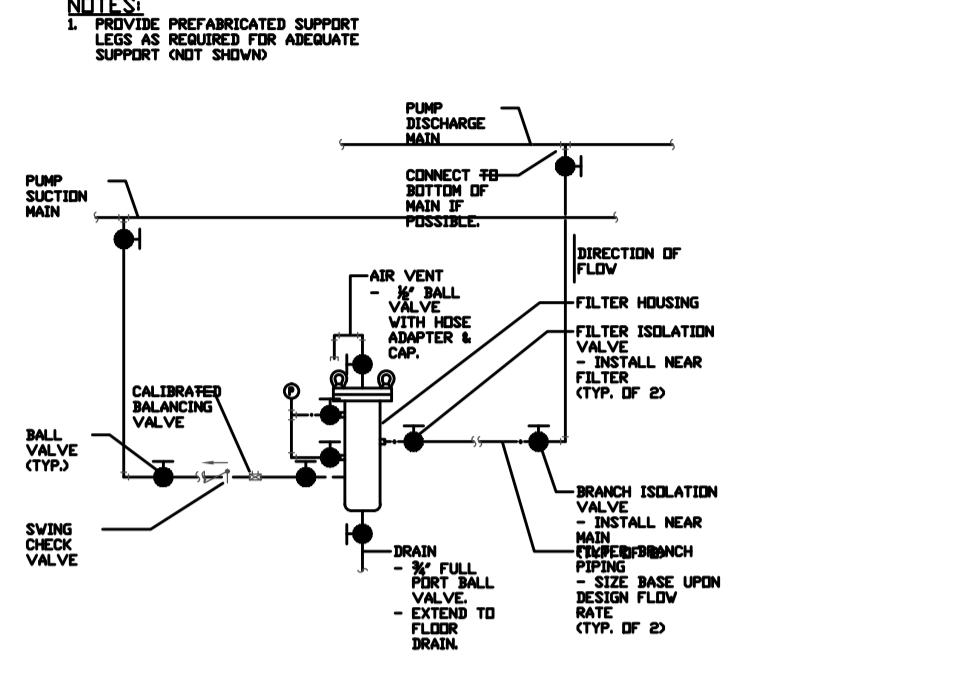
HANGER SPACING												
PIPE SIZE	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
MAXIMUM SPACING	7" (2133)	8" (2438)	9" (2743)	10" (3000)	11" (3352)	12" (3657)	14" (4267)	16" (4876)	17" (5181)	19" (5791)	22" (6705)	23" (7010)

UNIT: IMPERIAL

PIPE HANGER DETAIL  
N.T.S.



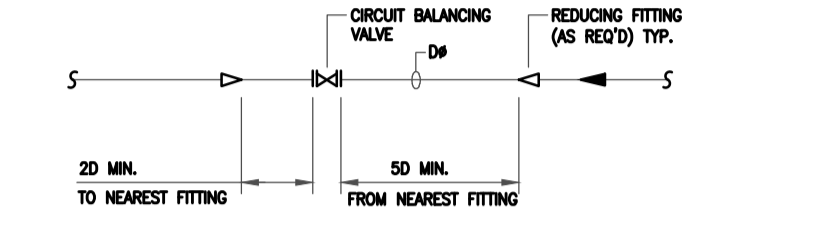
UNIT HEATER W/ 2-WAY CONTROL VALVE PIPING SCHEMATIC  
N.T.S.



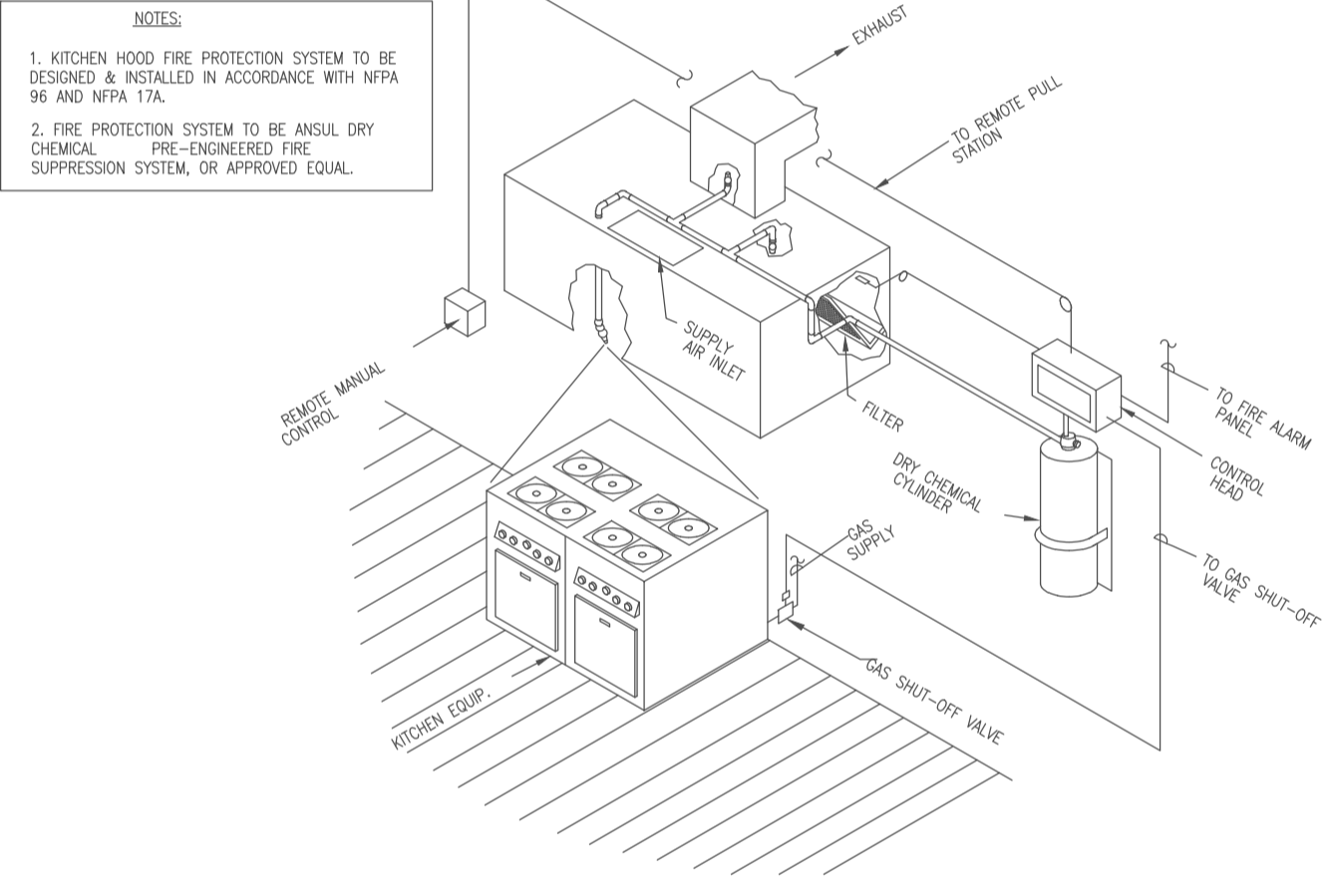
BYPASS FILTRATION PIPING DETAIL  
N.T.S.

CIRCUIT BALANCING VALVE SCHEDULE (IMPERIAL)			CIRCUIT BALANCING VALVE SCHEDULE (METRIC)		
SIZE	NOM. FLOW (GPM)	MAX. GPM	SIZE	NOM. FLOW (L/S)	MAX. L/S
3/8"	3	4.3	15	0.20	0.27
1/2"	6.8	10.1	20	0.19	0.61
3/4"	10.2	16.2	25	0.43	0.91
1"	15	24	32	0.64	1.51
1 1/4"	25	40	50	1.58	2.52
2"	40	100	65	2.52	6.3
2 1/2"	95	145	75	5.99	9.1
3"	145	235	100	9.15	15
4"	230	320	125	14.51	20
6"	330	490	150	20.19	31
8"	500	900	200	31.55	57

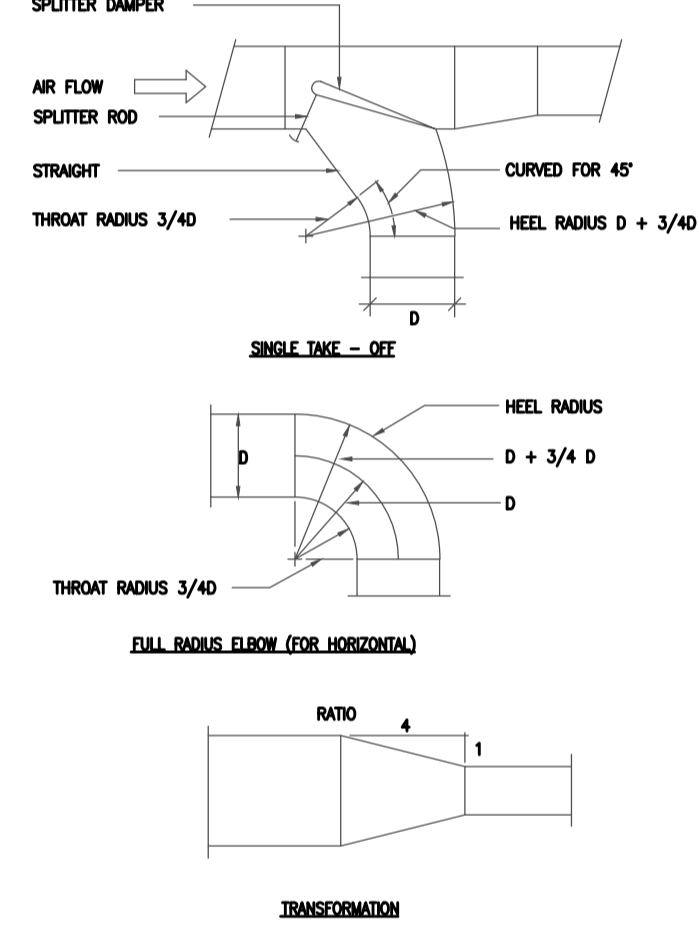
NOTE: ABOVE SELECTION BASED ON TOUR & ANDERSSON: 1FT AP @ MIN. 1 PSI (6.89kPa) NORMAL & 2 PSI (13.8 kPa) MAX AT FULL OPEN. MECHANICAL CONTRACTOR MUST SIZE AND PROVIDE WATER CIRCUIT BALANCING VALVE AS PER SCHEDULE AND DETAIL.



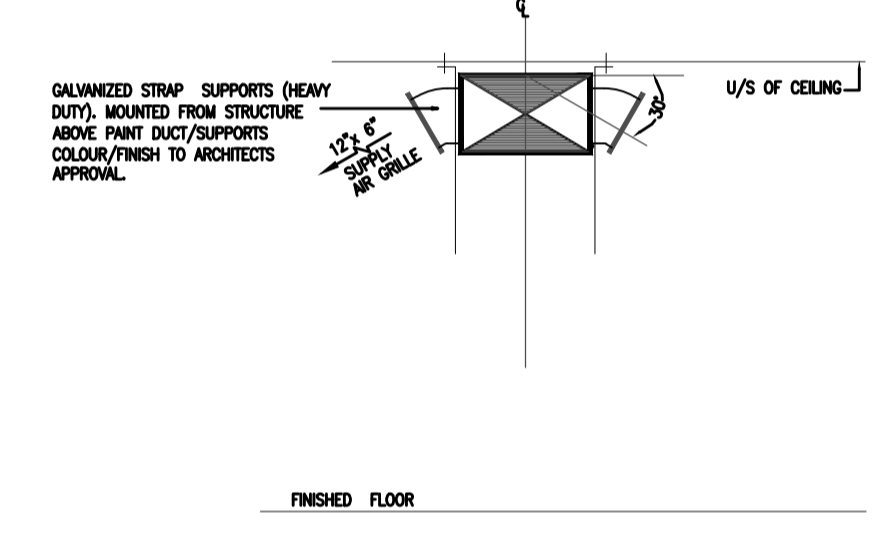
CIRCUIT BALANCING VALVE DETAIL & SCHEDULE  
N.T.S.



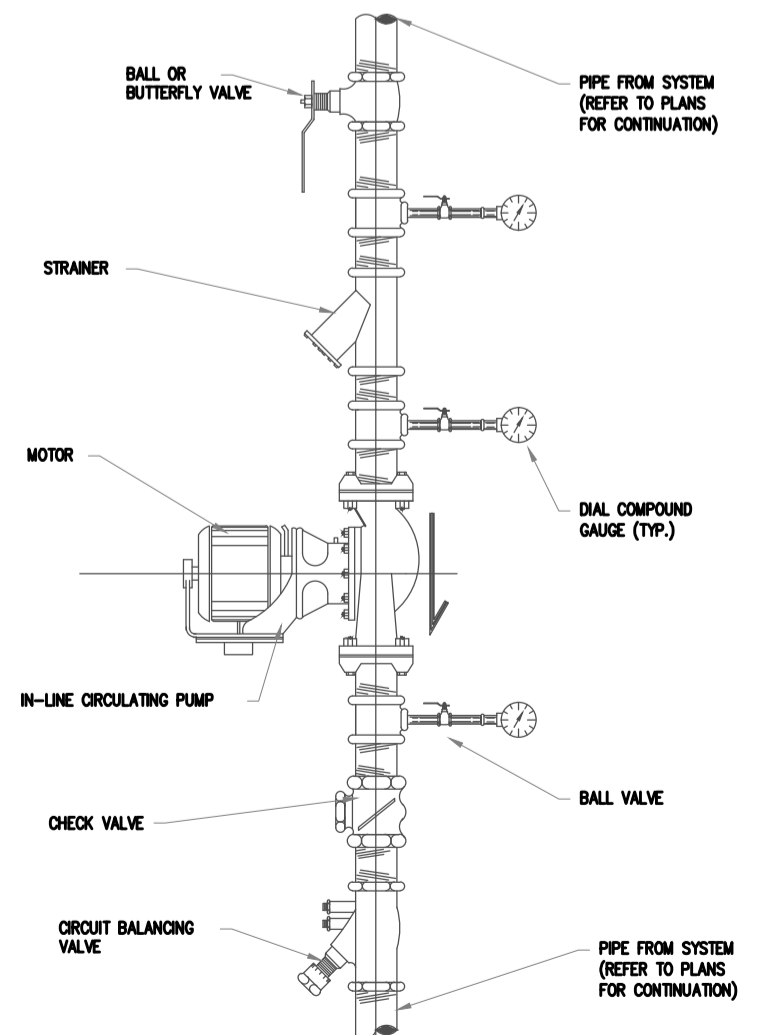
FIRE PROTECTION SYSTEM FOR KITCHEN EXHAUST HOOD  
N.T.S.



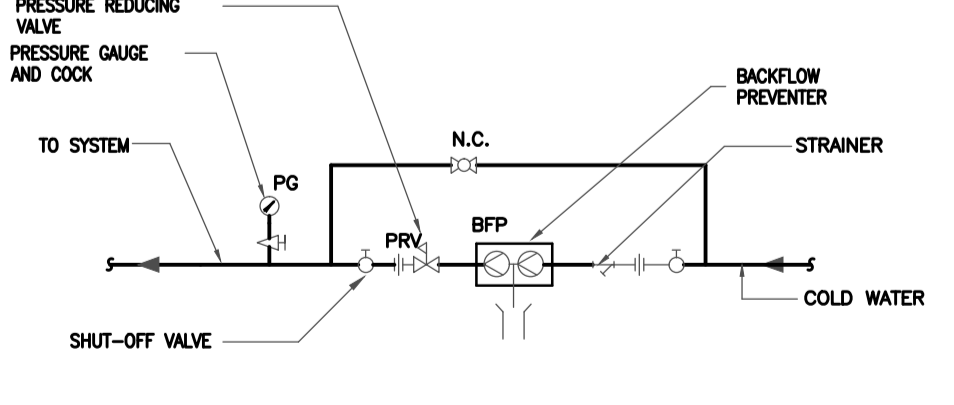
DUCT DETAILS  
N.T.S.



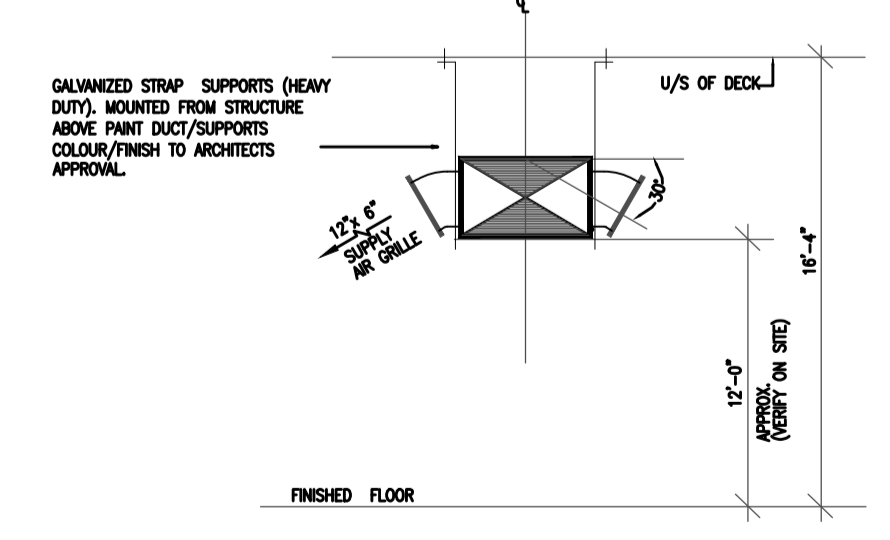
SQUARE DUCT WITH SIDEWALL GRILLES SHOWING MAIN DUCT  
N.T.S.



IN-LINE CIRCULATING PUMP DETAIL  
N.T.S.

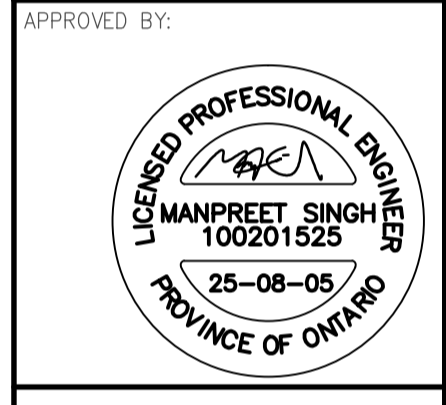


MAKE-UP WATER ASSEMBLY  
N.T.S.



SQUARE DUCT WITH SIDEWALL GRILLES SHOWING MAIN DUCT  
N.T.S.

GENERAL NOTES:  
CONTRACTOR TO CHECK DRAWINGS AND VERIFY DIMENSIONS ON THE JOB.  
REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION OR SHOP FABRICATION.  
DO NOT SCALE DRAWINGS.  
ALL DRAWINGS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF PROBUILD ENGINEERING INC.  
REPRODUCTION OF DRAWINGS AND RELATED DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT WRITTEN PERMISSION FROM PROBUILD ENGINEERING INC.



REV.	DATE	NAME	DESCRIPTION
01	MAY 13, 2025	MSK	ISSUED FOR TENDER ADD-01
02	MAR 26, 2025	MSK	ISSUED FOR TENDER
03	JUN 11, 2025	MSK	ISSUED FOR RE-OPEN
04	MAY 23, 2025	MSK	ISSUED FOR REVIEW

CONSULTANT:  
**PROBUILD ENGINEERING**  
50 Shandon Dr.,  
Toronto ON M1R 4M5, Canada  
Tel: (416) 671-0054  
www.ProBuildEngineering.ca  
info@ProBuildEngineering.ca

PROJECT NAME:  
BUILDING UPGRADES  
BETHANY RESIDENCE  
2387 INDUSTRIAL ST.  
BURLINGTON ON

DRAWING TITLE:  
MECHANICAL DETAILS

PROJECT NO:  
MK-2025-03  
FILE NO:  
PBE-25-03  
DATE: MAY 2025  
SCALE: AS NOTED  
DRAWN BY: IE  
CHECKED BY: MSK  
DRAWING NO:  
**M11**