

ELECTRICAL LEGEND			
SYMBOL	SYMBOL MEANING		
	RECESSED PANEL		
2000	SURFACED MOUNTED PANEL		
Ф	DUPLEX RECEPTACLE, 120V, 15A		
ф	DUPLEX RECEPTACLE, 120V, 15A MOUNTED ABOVE COUNTER		
GF W	GROUND FAULT INTERRUPTOR RECEPTACLE MOUNTED ABOVE COUNTER		
Ö	SPLIT RECEPTACLE MOUNTED ABOVE COUNTER		
₽	CEILING MOUNTED RECEPTACLE		
•	STOVE RECEPTACLE, CSA 14-50R		
#	DRYER RECEPTACLE, CSA 14-30R		
d	SWITCHED RECEPTACLE		
Φ ^W	WEATHERPROOF RECEPTACLE		
	WELDING RECEPTACLE		
•	DIRECT CONNECTION TO EQUIPMENT VOLTAGE/PHASE/FREQUENCY AS NOTED		
Ø	MOTOR LOAD VOLTAGE/PHASE/FREQUENCY AS NOTED		
∇	TELEPHONE OUTLET		
\blacksquare	DATA OUTLET		
\Box	TELEVISION OUTLET		
CO	CARBON MONOXIDE DETECTOR		
	FIRE ALARM CONTROL PANEL		
\bigcirc	VIDEO CAMERA		
\$	TOGGLE SWITCH		
\$ ₃	3-WAY TOGGLE SWITCH		
\$ _D	DIMMER SWITCH		
\$ _F	FAN SWITCH		
\$ _M	MANUAL SWITCH		
	DISCONNECT		

	DEMOLITION LEGEND
E	EXISTING TO REMAIN
R	EXISTING TO RELOCATE
N	NEW DEVICE

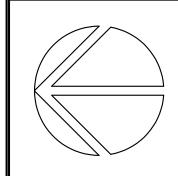
				NEL 'A'				
120/240V, 1	PHASE,	3 WIR	RE, 22	S, 60 (CIRC	CUIT W	TH 200A	MAIN BREAKER
DESCRIPTION	LOAD	BKR	ССТ) 0	СТ	BKR	LOAD	DESCRIPTION
EXISTING	×	15A	1	+ 2		15A	×	EXISTING
A/C	×	20A (3	4		15A	X	EXISTING
				6 8		15A	X	SPARE
HOT WATER TANK	×	30A (9	$\frac{1}{10}$,) 30A	×	DRYER BASEMENT
SPARE BEDROOM/SEWING ROOM	х	15A	11	12	2	15A	x	EXISTING
EXISTING	×	15A	13	<u> </u>) 15A	x	BASEMENT BATHROOM HEATE
LIVING ROOM/BASEMENT LIGHTS	×	15A	15	16	5 '			
STOVE	×	40A (17	18		15A	Х	UPSTAIRS BATH/MASTER BED
COMPLITED (CARACE		454	19	20		15A	X	SPARE COUNTER D
COMPUTER/GARAGE	X	15A	21	22		15A	X	KITCHEN LIGHTS COUNTER R
BASEMENT BEDROOM	×	15A	23	24		15A	X	BEDROOM LIFT
FRIDGE	X	15A	25	<u> 26</u>		15A	Х	BEDROOM LIFT
MICROWAVE	×	15A	27	28		15A	Х	WASHER/FURNACE
WASHING MACHINE	X	15A	29	<u> </u>		15A	Х	BATH LIFT
MEDICAL ROOM FRIDGE	×	15A	31	+ 32	2	15A	х	BASEMENT BATHROOM
MEDICAL ROOM COUNTER REC	X	15A	33	34) 30A	×	DRYER LAUNDRY ROOM
LAUNDRY/NEW GARAGE REC	×	15A	35	36				
FIRST FLOOR LIGHTING	×	15A	37	38) 20A	x	HP-1
1ST FL BED/BATH LIGHTING	×	15A	39	40) '			
BASEMENT WEST LIGHTING			41	<u> 42</u>		15A	X	SPARE
BASEMENT EAST LIGHTING			43	<u> 44</u>		15A	X	SPARE
EXTERIOR LIGHTING		15A	45	<u> 46</u>		15A	X	SPARE
			47	48		15A	X	SPARE
			49	<u> 50</u>		15A	X	SPARE
			51	<u>52</u>		15A	Х	SPARE
			53	<u>54</u>		15A	Х	SPARE
			55	<u>56</u>				
			57	<u>58</u>				E111E0
			59	60)	15A		EXITS

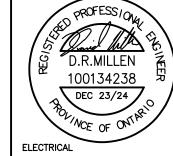
NOTES:

- WIRE EXISTING CIRCUITS INTO NEW PANEL EXISTING CIRCUITING IN PANEL SCHEDULE FOR REFERENCE ONLY. 2. RUN PHONE/NETWORK CABLE TO NEW ELECTRICAL PANEL
- FOR CONNECTION.
- OUTDOOR HEAT PUMP. INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT THROUGH FIELD—SUPPLIED INTERCONNECTED WIRING
- RUN 2 X 1" CONDUIT IN CEILING TO THE OLD LAUNDRY ROOM IN BASEMENT AS SHOWN FOR FUTURE USE. INTENDED FOR THE ELEVATOR PANEL AND COMMS.
- PROVIDE 2 X 2" CONDUITS TO THIS LOCATION FOR FUTURE GENERATOR INSTILLATION.
- PROVIDE DIRECT CONNECTION FOR SOAP DISPENSER. TO BE CIRCUITED WITH THE WASHING MACHINE ON CIRCUIT
- 5 PROVIDE HOLD OPENS (USE POWER FROM THE POWERED DOOR OPENER TO POWER)?

	REVISIONS				
NO.	DESCRIPTION	DATE	BY		
0	ISSUED FOR PERMIT	12.10.2024	DRM		
1	ISSUED FOR PERMIT & TENDER	12.23.2024	DRM		

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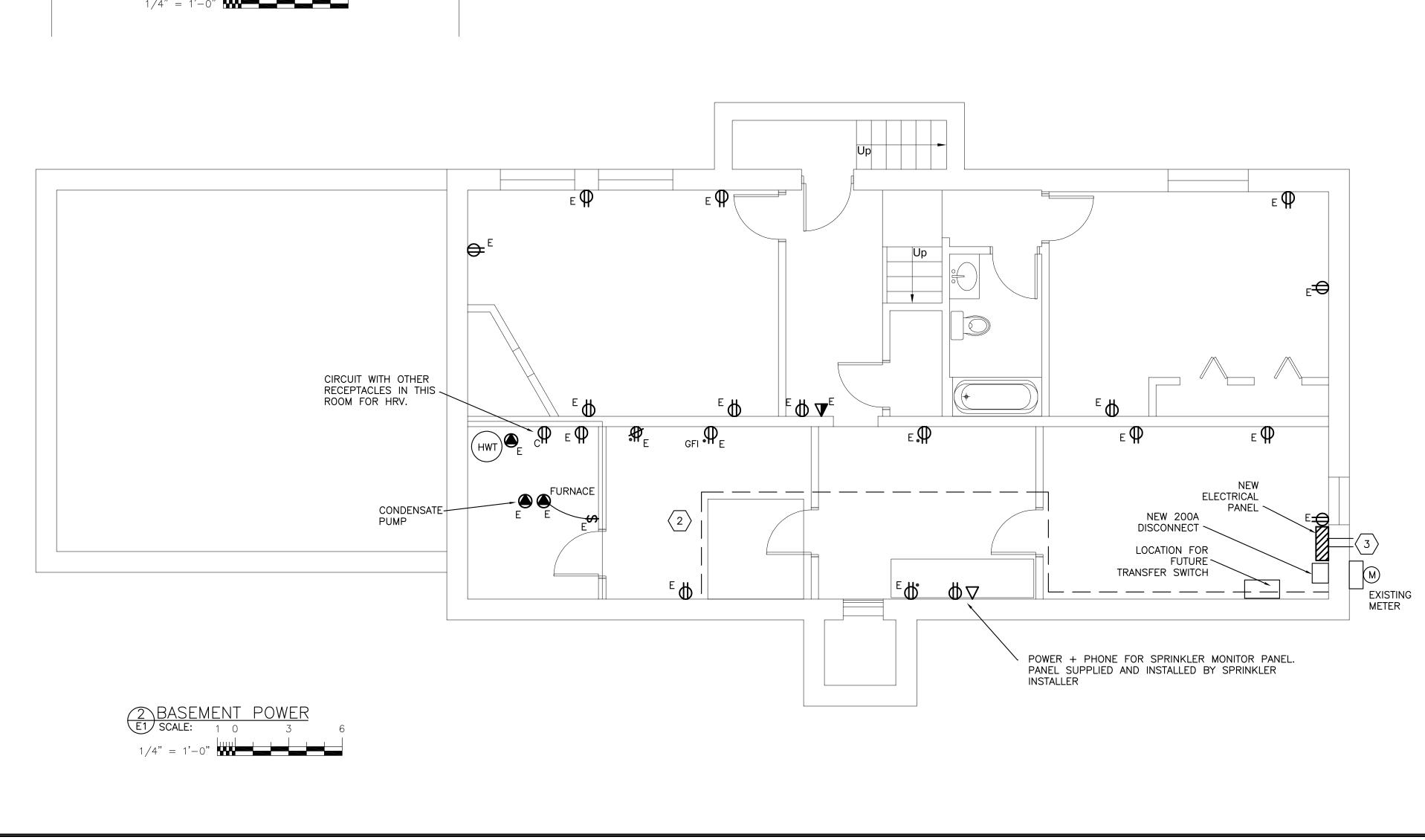
DEAF BLIND ONTARIO RENOVATION

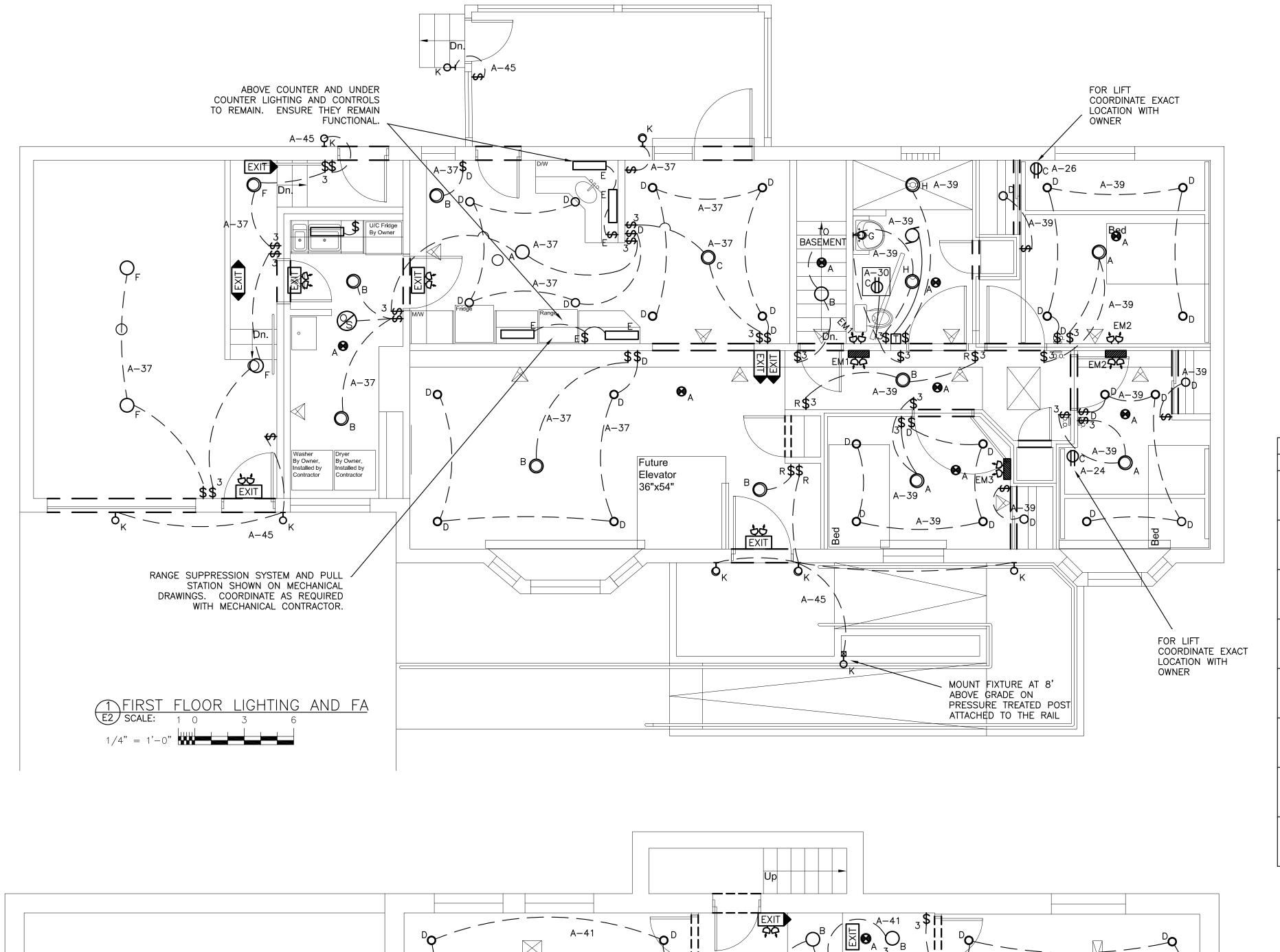
711 Crowley St. Peterborough, ON.

POWER LAYOUT

DESIGN	DRM	SCALE $1/4" = 1'-0"$
DRAWN	AJM	DWG NO.
CHECKED	DRM	
APPROVED	DRM	
PROJECT	7471	

CADD FILE NO. 7471E1





₩ EM5

A - 43

New HRV (As per Mechanical)

1/4" = 1'-0"

	CWITCH LECEND
	SWITCH LEGEND
\$	TOGGLE SWITCH
\$ ₃	3-WAY TOGGLE SWITCH
\$ _D	DIMMER SWITCH
\$ _F	FAN SWITCH
\$ _M	MANUAL SWITCH
<i>////////</i>	BATTERY PACK
	EMERGENCY LIGHTS
8	CEILING MOUNTED DUEL TECH OCCUPANCY SENSOR
	5 BUTTON TIMER
EXIT	EXIT SIGN SELF POWERED
Ø	EXHAUST FAN

	DEMOLITION LEGEND
E	EXISTING TO REMAIN
R	EXISTING TO RELOCATE
N	NEW DEVICE

	LIGHT FIXTURE SCHEDULE				
FIXTURE TYPE	DESCRIPTION	MANUFACTURER	MODEL NO.		
Α	11" DIAMETER, LOW PROFILE CEILING MOUNTED LED FIXTURE WITH WHITE ACRYLIC DIFFUSER AND 1100 LUMENS, 16 WATTS, 4000K CCT FOR OPERATION AT 120V.	LITHONIA OR APPROVED EQUAL	FMLRL 11 14840 M4		
В	14" DIAMETER, LOW PROFILE CEILING MOUNTED LED FIXTURE WITH WHITE ACRYLIC DIFFUSER AND 1600 LUMENS, 24 WATTS, 4000K CCT FOR OPERATION AT 120V.	LITHONIA OR APPROVED EQUAL	FMLRL 14 20840 M4		
С	16" ROUND LED PENDANT FIXTURE 22W, 1900 LUMEN, 3500K WHITE FINISH, DIMMABLE 120V	BROWNLEE OR APPROVED EQUAL	2680-16-WH-R11-WH-CC1 -WHC-35K-DTR		
D	6 DIAMETER, SURFACE MOUNTED LED DISK LIGHT, 1000 LUMENS, 15 WATTS, 4000K CCT FOR OPERATION AT 120V.	LITHONIA OR APPROVED EQUAL	JSBT 6IN SWW 90CRI WL MW M6		
F	2' LED LOW PROFILE WRAPAROUND FIXTURE, SURFACE MOUNTED WHITE, 3000 LUMENS, 3500K, 120V	LITHONIA OR APPROVED EQUAL	FMLWL 24 8 35 MVOLT		
G	24" LONG LED VANITY WALL BRACKET C/W ACRYLIC DIFFUSER AND BRUSHED NICKLE FINISH, 27W LIGHTING, 3500K, 1550 LUMENS, 120V OPERATION.	LITHONIA OR APPROVED EQUAL	FMVCSLS 24IN MVOLT 30K35K40K 90CRI BN M6		
Н	6" ROUND RECESSED LED DOWNLIGHT FOR WET LOCATION, 1300 LUMEN 16 W 3500K, 120V, MATTE WHITE, 120V	LITHONIA OR APPROVED EQUAL	WF6 DREG B ALO20 SWW5 90CRI MW M6		
К	WALL MOUNTED LED WALL PACK, DARK BRONZE FINISH, SELECTABLE MAX 13 W WEATHER PROOF, SELECTABLE SET AT 3000K 120V, WITH PHOTOCELL	LITHONIA OR APPROVED EQUAL	WPX0 LED ALO SWW2 MVOLT PE DDBXD		

DRAWING NOTES:

SPRINKLER TAMPER/FLOW/PRESSURE SENSORS AND MONITORING PANEL SUPPLIED AND INSTALLED BY SPRINKLER CONTRACTOR. COORDINATE ELECTRICAL REQUIREMENTS

NOTES:

FIRE ALARM DEVICE LEGEND

DESCRIPTION

SMOKE/CO/STROBE

SMOKE ALARM COMBO

SYMBOL

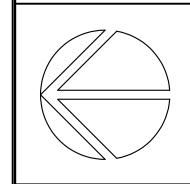
- SMOKE ALARMS TO BE 120V WITH BATTERY BACK UP SMOKE AND CO DETECTION WITH STROBE AND INTERCONNECTED AS PER ONTARIO BUILDING CODE REQUIREMENTS.
 EMERGENCY LIGHT BATTERY PACKS TO BE
- ON SAME CIRCUIT AS LIGHTING IN THAT ROOM.

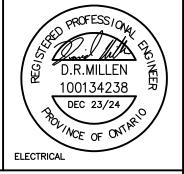
 3. EXIT SIGNS TO BE POWERED FROM A
- DEDICATED CIRCUIT A-60

 4. MECHANICAL TO PROVIDE DUCT TYPE SMOKE DETECTOR TO SHUTDOWN FURNACE FAN ON ACTIVATION. COORDINATE WITH MECHANICAL CONTRACTOR FOR ELECTRICAL REQUIREMENTS.

DESCRIPTION	DATE	B)
ISSUED FOR PERMIT	12.10.2024	DR
ISSUED FOR PERMIT & TENDER	12.23.2024	DF
	ISSUED FOR PERMIT	ISSUED FOR PERMIT 12.10.2024

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570 Water Street
Peterborough, Ontario
K9H 3M8
p. (705) 745-2831
f. (705) 741-1526
www.kirklandeng.com

KIRKLAND ENGINEERING LTD.

DEAF BLIND ONTARIO RENOVATION

711 Crowley St. Peterborough, ON.

LIGHTING AND FA LAYOUT

DESIGN	DRM	SCALE $1/4" = 1'-0"$
DRAWN	AJM	DWG NO.
CHECKED	DRM	
APPROVED	DRM	
PROJECT	7471	

SPECIFICATION

. GENERAL CONDITIONS

DO ALL WORK IN ACCORDANCE WITH ONTARIO ELECTRICAL SAFETY CODE, CURRENT EDITION, BASED UPON THE CANADIAN ELECTRICAL CODE, PART I, CSA STANDARD C22.1,

2. SCOPE OF WORK
2.1 PROVIDE ALL MATERIALS EQUIPMENT AND LABOUR TO PROVIDE A COMPLETE OPERATING INSTALLATION AS DESIGNATED IN THIS SPECIFICATION AND AS INDICATED ON THE DRAWINGS EXCEPT WHERE OTHERWISE NOTED. 2.2 THE SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO, SUPPLY AND

INSTALLATION OF THE FOLLOWING ITEMS: 2.2.1 POWER DISTRIBUTION. 2.2.2 LIGHTING

2.2.6 FIRE ALARM SYSTEM

2.2.3 EMERGENCY LIGHTING AND EXIT SIGNAGE.

2.2.4 FEEDERS AND OVER CURRENT PROTECTION FOR MECHANICAL EQUIPMENT. 2.2.5 EMPTY RACEWAY SYSTEM FOR TELEPHONE AND CABLE TV SYSTEMS

3.1 ALL MATERIALS SHALL BE CSA APPROVED, NEW AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

4. IDENTIFICATION
4.1 WIRES TO BE COLORED AS FOLLOWS: 120V AC NEUTRAL WHITE 12V DC BLUE.

120V AC SWITCHED, BLACK OR RED. 120V AC LINE, BLACK.

4.2 PROVIDE LAMICOID LABELS FOR NEW OR REVISED BREAKER PANELS, SPLITTERS AND DISCONNECTS. 4.3 PROVIDE TYPED CIRCUIT LISTING FOR NEW OR REVISED BREAKER PANELS.

5. EXAMINATION OF SITE5.1 PRIOR TO SUBMITTING TENDERS, THIS CONTRACTOR SHALL VISIT THE SITE TO DETERMINE ALL EXISTING CONDITIONS. 5.2 ALLOW FOR ALL COSTS ASSOCIATED WITH COMPLETING THE WORK OF DIVISION 16 IN ACCORDANCE WITH EXISTING SITE AND BUILDING CONDITIONS. 5.3 NO ALLOWANCE FOR EXTRA PAYMENTS TO THE CONTRACTOR WILL BE MADE BY THE OWNER FOR FAILING TO VISIT AND EXAMINE SITE CONDITIONS.

6.1 SUB-CONTRACTOR SHALL MAINTAIN SUCH INSURANCE AS WILL FULLY PROTECT BOTH THE OWNER AND THE SUB-CONTRACTOR FROM ANY AND ALL CLAIMS UNDER THE WORKMEN'S COMPENSATION ACT, ALSO ALL INSURANCE AS NOTED WITHIN ARCHITECTURAL GENERAL CONDITIONS.

<u>. AS BUILT DRAWINGS</u> 7.1 MAINTAIN A SEPARATE SET OF WHITE PRINTS ON THE SITE AND NOTE ALL CHANGES AND DEVIATIONS FROM THE ORIGINAL DESIGN. TWO SETS OF THESE DRAWINGS SHOWING ALL AS-BUILT CONDITIONS SHALL BE FORWARDED TO THE ARCHITECT AT THE COMPLETION OF THIS CONTRACT AND BEFORE APPLYING FOR FINAL PAYMENT.

<u>B. REVISIONS AND EXTRAS</u>

8.1 ADDITIONAL MONEY OVER THE CONTRACT PRICE SHALL NOT BE PAID UNLESS AN APPROVED CHANGE ORDER IS ISSUED BY THE ARCHITECT. CLAIMS FOR EXTRAS SHALL BE SUBMITTED WITH A COMPLETE BREAKDOWN OF MATERIAL, LABOUR, HOURLY RATES,

9.1 BE RESPONSIBLE TO KEEP THE AREA CLEAN AT ALL TIMES AND TO PERIODICALLY REMOVE ALL DEBRIS.

10. CUTTING AND PATCHING

10.1 ALL CUTTING AND PATCHING REQUIRED FOR THE WORK OF THIS DIVISION SHALL BE CARRIED OUT BY THIS DIVISION. NO CHASING BLOCK WORK WILL BE ALLOWED. CUTTING AND DRILLING SHALL BE PERFORMED IN A MANNER SO AS TO CAUSE LITTLE DAMAGE. BE RESPONSIBLE AND PAY FOR ANY DAMAGE TO THE BUILDING INCURRED BY WORK OF THIS DIVISION.

11. COORDINATION

11.1 BE RESPONSIBLE TO COORDINATE THE INSTALLATION OF EQUIPMENT, CONDUIT WORK, LIGHTING FIXTURES, ETC. WITH OTHER TRADES AND THE OWNER'S REPRESENTATIVE PRIOR TO THE ACTUAL INSTALLATION.

12. RESPONSIBILITY
12.1 BE RESPONSIBLE FOR ELECTRICAL WORK UNTIL THE COMPLETION AND FINAL ACCEPTANCE, FOR REPLACING ANY ITEM THAT MAY BE DEFECTIVE, DAMAGED, LOST OR STOLEN WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY TO THE COMPLETION OF THE PROJECT.

13. WIRING MATERIALS AND METHODS

13.1 USE MATERIALS AND METHODS APPROVED BY ONTARIO ELECTRICAL CODE FOR USE IN NON-COMBUSTIBLE CONSTRUCTION. 13.2 ALL BUILDING WIRE SHALL BE COPPER TYPE RW90-XLPE WHERE APPROPRIATE EXCEPT WHERE OTHERWISE NOTED.

13.3 USE MINIMUM OF #12 AWG FOR BRANCH CIRCUIT WIRING.

13.4 ARMORED CABLE TYPE AC90 (BX) WITH INTERLOCKING ARMOUR FABRICATED FROM ALUMINUM STRIP C/W COPPER INSULATED CONDUCTORS, SIZE AS INDICATED, TO BE USED IN CONCEALED WALL AND CEILING CAVITIES.

14. SHOP DRAWINGS AND PRODUCT DATA

14.1 'SHOP DRAWINGS' MEANS DRAWINGS, DIAGRAMS, ILLUSTRATIONS, SCHEDULES, PERFORMANCE, CHARTS, BROCHURES, AND OTHER DATA WHICH ARE TO BE PROVIDED BY CONTRACTOR TO ILLUSTRATE DETAILS OF A PORTION OF THE WORK. 14.2 INDICATE MATERIALS METHODS OF CONSTRUCTION AND ATTACHMENT OR

ANCHORAGE, NECESSARY FOR COMPLETION OF WORK. 14.3 ADJUSTMENTS MADE ON SHOP DRAWINGS BY OWNER OR ENGINEER ARE NOT

INTENDED TO CHANGE CONTRACT PRICE. 14.4 MAKE CHANGES IN SHOP DRAWINGS AS OWNER OR ENGINEER MAY REQUIRE. 14.5 SUBMIT 6 HARD COPIES, OR 1 HIGH QUALITY ELECTRONIC COPY OF PRODUCT DATA SHEETS OR BROCHURES FOR LIGHTING FIXTURES, EMERGENCY LIGHTING, EXIT

DISTRIBUTION EQUIPMENT. 14.6 PROVIDE 2 MAINTENANCE MANUALS COMPLETE WITH WARRANTEE, CERTIFICATE OF INSPECTION BY ESA, FIRE ALARM VERIFICATION REPORT, AND COPY OF ALL PRODUCT LITERATURE AND MAINTENANCE INFORMATION.

SIGNS, MAIN SERVICE BOARD, MOTOR STARTERS, FIRE ALARM EQUIPMENT AND POWER

15. SYSTEMS DEMONSTRATION

15.1 PRIOR TO FINAL INSPECTION DEMONSTRATE OPERATION OF EACH SYSTEM TO OWNER AND ENGINEER. 15.2 INSTRUCT PERSONNEL IN OPERATION ADJUSTMENT AND MAINTENANCE OF EQUIPMENT AND SYSTEMS, USING PROVIDED OPERATION AND MAINTENANCE DATA AS BASIS FOR INSTRUCTION.

AUTHORITIES HAVING JURISDICTION OF COMPLETION OF WORK TO ENGINEER.

16. PERMITS, FEES AND INSPECTION

16.1 SUBMIT TO ELECTRICAL SAFETY AUTHORITY NECESSARY NUMBER OF DRAWINGS AND SPECIFICATIONS FOR EXAMINATION AND APPROVAL PRIOR TO COMMENCEMENT OF WORK. 16.2 PAY ASSOCIATED FEES, INCLUDING EQUIPMENT APPROVAL INSPECTION FEE. 16.3 OWNER WILL PROVIDE DRAWINGS AND SPECIFICATIONS REQUIRED BY ELECTRICAL SAFETY AUTHORITY AT NO COST. 16.4 NOTIFY ENGINEER OF CHANGES REQUIRED BY ELECTRICAL SAFETY AUTHORITY PRIOR TO MAKING CHANGES. 16.5 FURNISH CERTIFICATES OF ACCEPTANCE FROM ELECTRICAL SAFETY AUTHORITY AND

17.1 THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THIRD PARTY TESTING OF THE LIGHTING SYSTEM IN ACCORDANCE WITH ASHRAE STANDARD 90.1-2010, SECTION 9.4.4 FUNCTIONAL TESTING. THE PARTY RESPONSIBLE FOR THE FUNCTIONAL TESTING SHALL NOT BE DIRECTLY INVOLVED IN EITHER THE DESIGN OR CONSTRUCTION OF THE PROJECT AND SHALL PROVIDE DOCUMENTATION CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET OR EXCEED ALL DOCUMENTED PERFORMANCE CRITERIA. 17.2 LIGHTING CONTROL DEVICES AND CONTROL SYSTEMS SHALL BE TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. 17.3 WHEN SENSORS, TIME SWITCHES, PROGRAMMABLE SCHEDULE CONTROLS OR PHOTOSENSORS ARE INSTALLED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED: 17.2.1 CONFIRM THAT THE PLACEMENT, SENSITIVITY AND TIME-OUT ADJUSTMENTS FOR OCCUPANT SENSORS YIELD ACCEPTABLE PERFORMANCE, LIGHTS TURN OFF ONLY AFTER SPACE IS VACATED. WHERE AN AUTO-ON MODE HAS BEEN SELECTED, LIGHTS DO NOT TURN ON UNLESS SPACE IS OCCUPIED.

17.2.2 CONFIRM THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS

17.2.3 WHERE DAYLIGHT HARVESTING CAPABILITY HAS BEEN INSTALLED, CONFIRM THAT

PHOTOSENSOR CONTROLS REDUCE ELECTRIC LIGHT LEVELS BASED ON THE AMOUNT OF

ARE PROGRAMMED CORRECTLY TO TURN THE LIGHTS OFF.

USABLE DAYLIGHT IN THE SPACE AS SPECIFIED.

18.1 AFTER THE WORK IS COMPLETED, GIVE A WRITTEN GUARANTEE FOR ONE YEAR COVERING WORKMANSHIP AND MATERIALS. REPAIR OR REPLACE, WITHOUT EXPENSE TO THE OWNER, ANY DEFECTS DUE TO WORKMANSHIP OR MATERIALS WHICH IN THE OWNER'S OPINION, ARE NOT DUE TO MISUSE OR NEGLECT.

19.1 RIGID GALVANIZED STEEL CONDUIT TO BE USED WHERE SUBJECT TO MECHANICAL DAMAGE. 19.2 ELECTRICAL METALLIC TUBING (EMT) WITH COUPLINGS TO BE USED EXCEPT WHERE EMBEDDED IN CONCRETE OR SUBJECT TO UNDUE MOISTURE OR MECHANICAL DAMAGE. 19.3 RIGID PVC CONDUIT WHERE EMBEDDED IN CONCRETE OR BELOW GRADE. 19.4 FLEXIBLE ALUMINUM CONDUIT WITH WEATHERPROOF COVERING TO BE USED WHERE SUBJECT TO VIBRATION OR STRAIN RELIEF. 19.5 CONDUITS IN FINISHED AREA SHALL BE CONCEALED.

19.6 CONDUITS SHALL BE MINIMUM 1/2".

20. INSTALLATION OF OUTLETS 20.1 THE DRAWINGS SHOW APPROXIMATE LOCATION OF OUTLETS, EXACT LOCATION SHALL BE COORDINATED ON THE SITE WITH OTHER TRADES, ARCHITECTURAL DRAWINGS, ETC. OUTLETS INACCURATELY LOCATED SHALL BE READJUSTED OR RELOCATED AT THE CONTRACTOR'S EXPENSE. UNLESS OTHERWISE NOTED ON THE DRAWING LOCATE

OUTLETS AS FOLLOWS: 20.1.1 RECEPTACLES, TELEPHONE AND DATA OUTLETS (15.7") 400mm ABOVE FINISHED

FLOOR. 20.1.2 OUTLETS OVER COUNTER (45") 1143mm ABOVE FLOOR OR CO-ORDINATION. 20.1.3 OUTLETS IN MECHANICAL, ELECTRICAL AND TELEPHONE ROOMS (48") 1220mm

ABOVE FLOOR. 20.1.4 LIGHT SWITCHES NOT LESS THAN (35.4") 900mm AND NOT MORE THAN (43") 1100mm ABOVE FLOOR.

20.2 RACEWAYS SHALL BE EMT UNLESS OTHERWISE NOTED. 20.3 SUPPORT OUTLET BOXES, JUNCTION BOXES, CONDUIT AND THE LIKE.

21.1 WHITE DUPLEX RECEPTACLES CSA TYPE 5-15R, 125V OR CSA 5-20A 20A, T-SLOT,

U GROUND. 21.2 BLACK COVER PLATES. 21.3 IF RECEPTACLE IS SURFACE MOUNTED USE CAST BOX AND STAINLESS STEEL COVER

22. EXCAVATION, BACKFILL AND CONCRETE WORK 22.1 WHERE REQUIRED FOR UNDERGROUND SERVICE (POWER OR TELEPHONE) THE EXCAVATION. BACKFILL AND CONCRETE WORK SHALL BE BY THE GENERAL CONTRACTOR. THE ELECTRICAL TRADE SHALL SUPERVISE THE PROCESSING OF CONCRETE AROUND DUCT BANK, TO ENSURE THEY ARE FREE FROM VOIDS SHALL ADVISE THE GENERAL CONTRACTOR OF THIS WORK FOR INCLUSION IN THE GENERAL CONTRACTOR'S TENDER PRICE.

23.1 PROVIDE ALL CONDUIT, WIRING, SPLITTERS, OUTLET BOXES AND DISCONNECT SWITCHES AS SHOWN. ALL MOTORS, STARTERS AND CONTROL WIRING PROVIDED BY MECHANICAL DIVISION UNLESS OTHERWISE NOTED. INSTALL ALL STARTERS AND WIRE COMPLETE. ALL EXTERIOR DISCONNECTS TO BE WEATHERPROOF. 23.2 THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL MOTOR CONNECTION FOR PROPER PHASE ROTATION, WHERE APPLICABLE.

24.1 20A, 120V, SINGLE POLE SWITCHES

24.2 WHITE TOGGLE

24.3 BLACK COVER PLATES. 24.4 IF SWITCH IS SURFACE MOUNTED USE CAST BOX.

25. EQUIPMENT FOR EMERGENCY LIGHTING 25.1 SUPPLY VOLTAGE: 120V AC

25.2 OUTPUT VOLTAGE: 12V DC.

25.3 OPERATIONS TIME: 30 MINUTES MINIMUM

25.4 CABINET: SUITABLE FOR DIRECT OR SHELF MOUNTING TO WALL C/W KNOCKOUTS FOR CONDUIT, REMOVABLE OR HINGED FRONT PANEL FOR EASY ACCESS TO BATTERIES.

<u> 26. TELEPHONE CABLE T.V./COMPUTER RACEWAY SYSTEM, (ETC.)</u>

26.1 PROVIDE CONDUIT SYSTEMS FOR TELEPHONE AS SHOWN ON THE DRAWINGS. 26.2 WHERE CONDUITS NOT SHOWN ON DRAWINGS PROVIDE CONDUITS FROM OUTLET BOX TO ACCESSIBLE CEILING SPACE AS NEEDED.

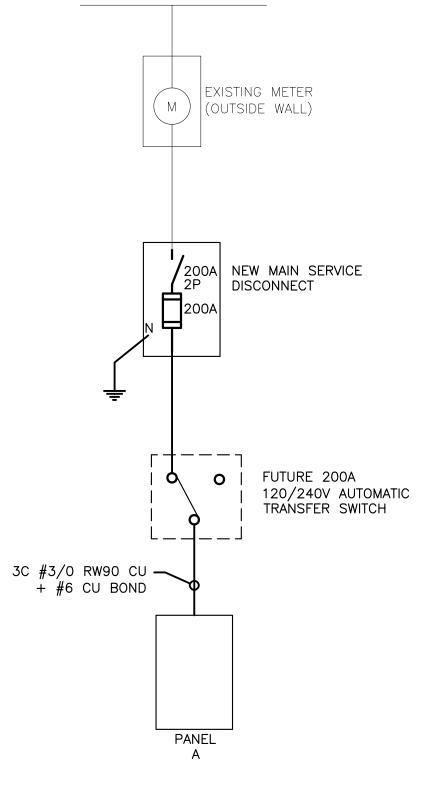
26.3 THIS CONTRACTOR SHALL PROVIDE AND/OR COORDINATE THE SIZE, TYPE AND LOCATION OF THE INCOMING TELEPHONE CONDUIT WITH THE TELEPHONE COMPANY OR THE BUILDING OWNER.

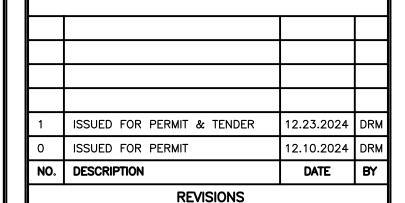
26.4 RACEWAYS (OTHER THAN INCOMING) SHALL BE EMT. 26.5 A MAXIMUM OF 2 LONG RADIUS 90 DEGREE BENDS SHALL BE PROVIDED BETWEEN

26.6 A WIRE SHALL BE PULLED AND LEFT IN EACH CONDUIT RUN TO FACILITATOR THE

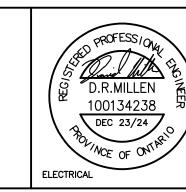
FUTURE PULLING OF WIRES. 26.7 PROVIDE NECESSARY BOXES AND ASSOCIATED COVER PLATES AS REQUIRED FOR THE ABOVE SYSTEMS.

26.8 CONTRACTOR TO PROVIDE CAT5 CABLE, OR PLENUM RATED EQUAL WHERE REQUIRED AND TERMINATIONS AT WALL AND PANEL FOR DATA. LEAVE 5' AT PANEL TO ALLOW FOR CONNECTIONS TO NETWORKING EQUIPMENT.





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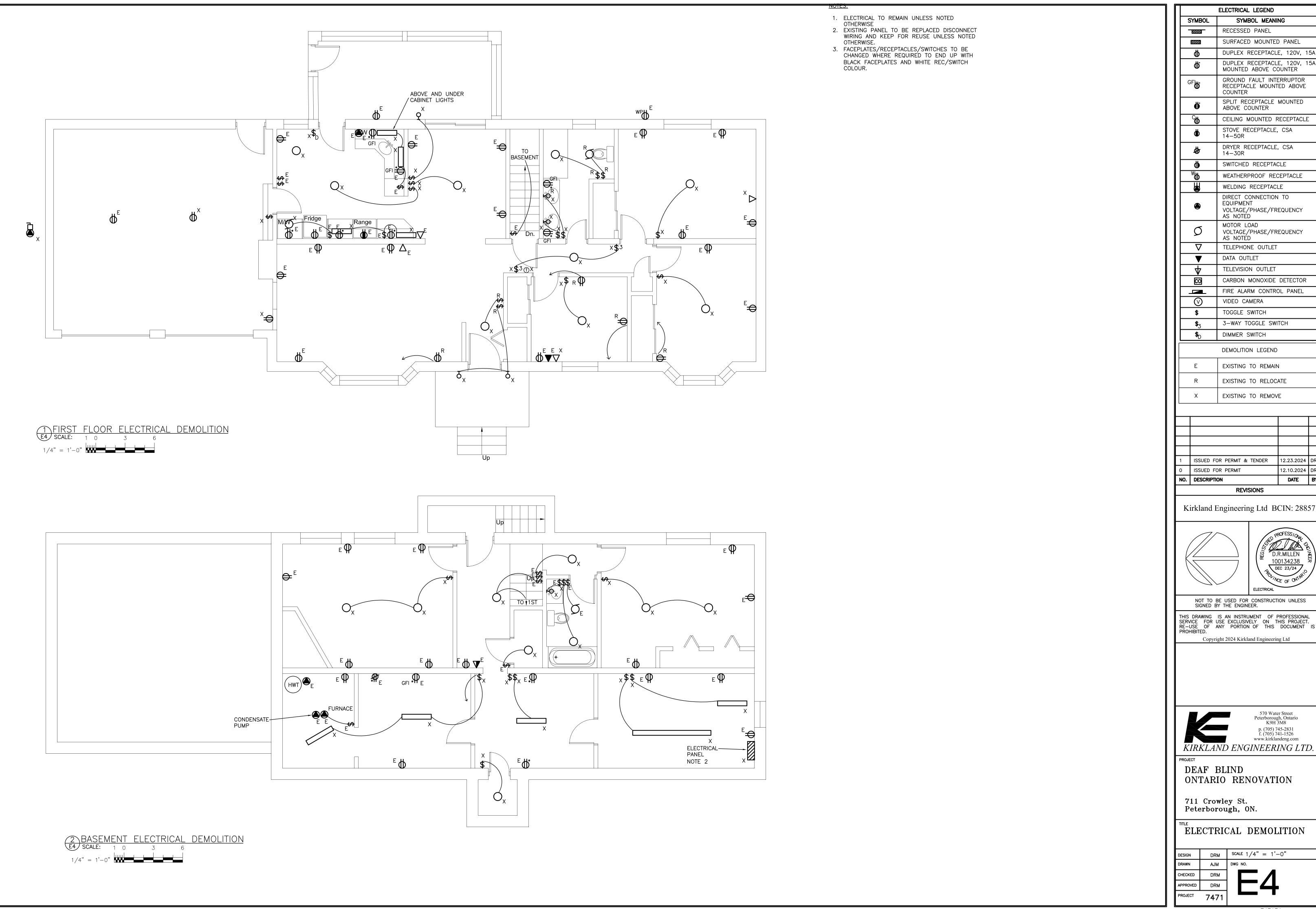
DEAF BLIND ONTARIO RENOVATION

711 Crowley St. Peterborough, ON.

SPECIFICATIONS

DRM | SCALE N.T.S. DESIGN DRAWN AJM DWG NO. CHECKED DRM APPROVED DRM PROJECT 7471

CADD FILE NO. 7471E3



12.23.2024 DRM

100134238 DEC 23/24

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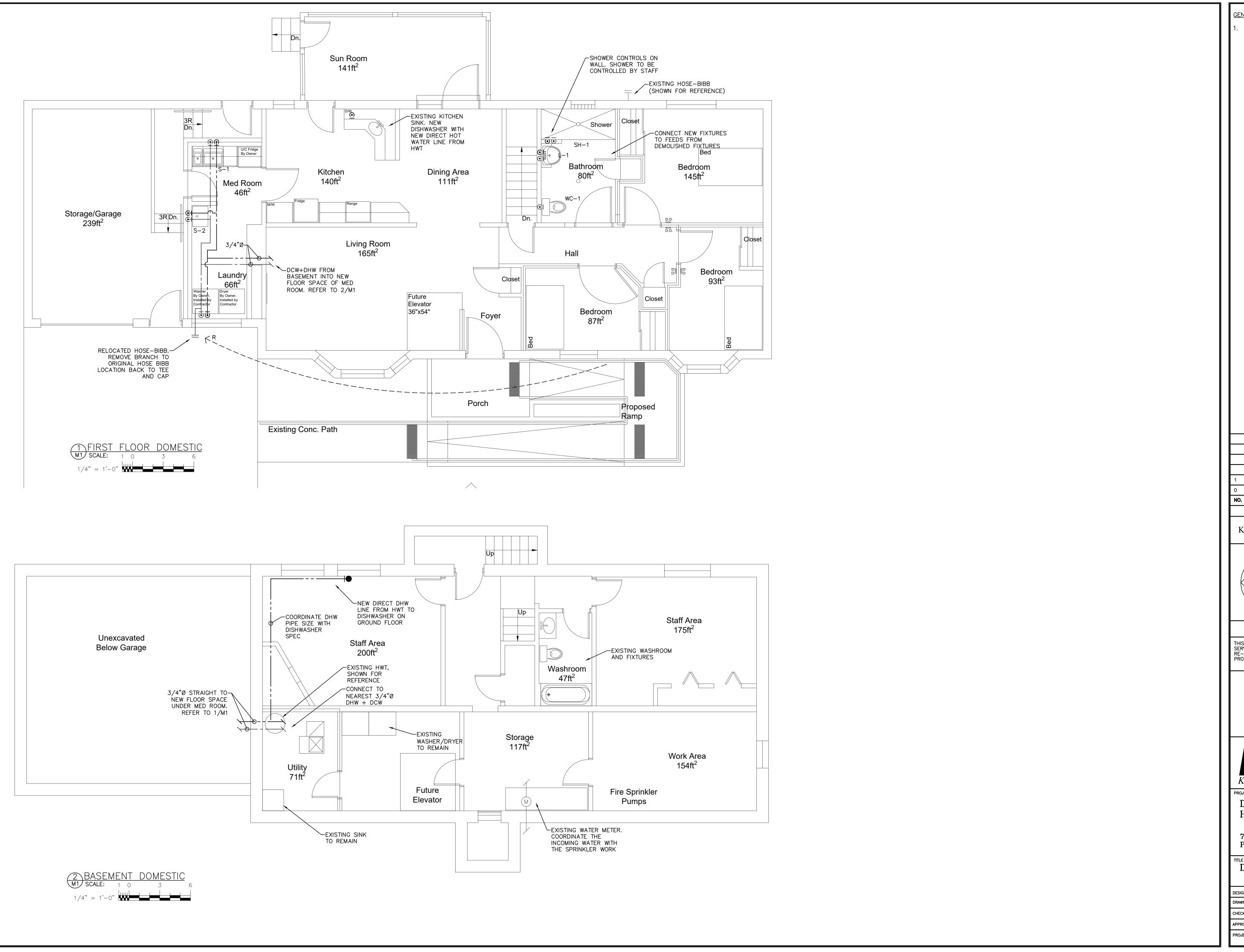
REVISIONS

12.10.2024 DRM

SYMBOL MEANING

CADD FILE NO. 7471E4

SCALE 1/4" = 1'-0"



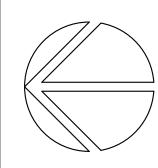
GENERAL NOTES

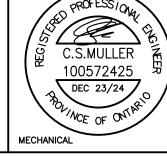
ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES TO BE COMPLETE WITH FIRE-STOP DEVICES OR COLLARS, OR FIRE-RESISTANT CAULKING IN CONFORMANCE WITH ASTM E 814.

NO.	DESCRIPTION	DATE	BY
0	ISSUED FOR PERMIT	2024.12.10	CSM
1	ISSUED FOR PERMIT AND TENDER	2024.12.23	CSM

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DEAFBLIND ONTARIO HOME CONVERSION

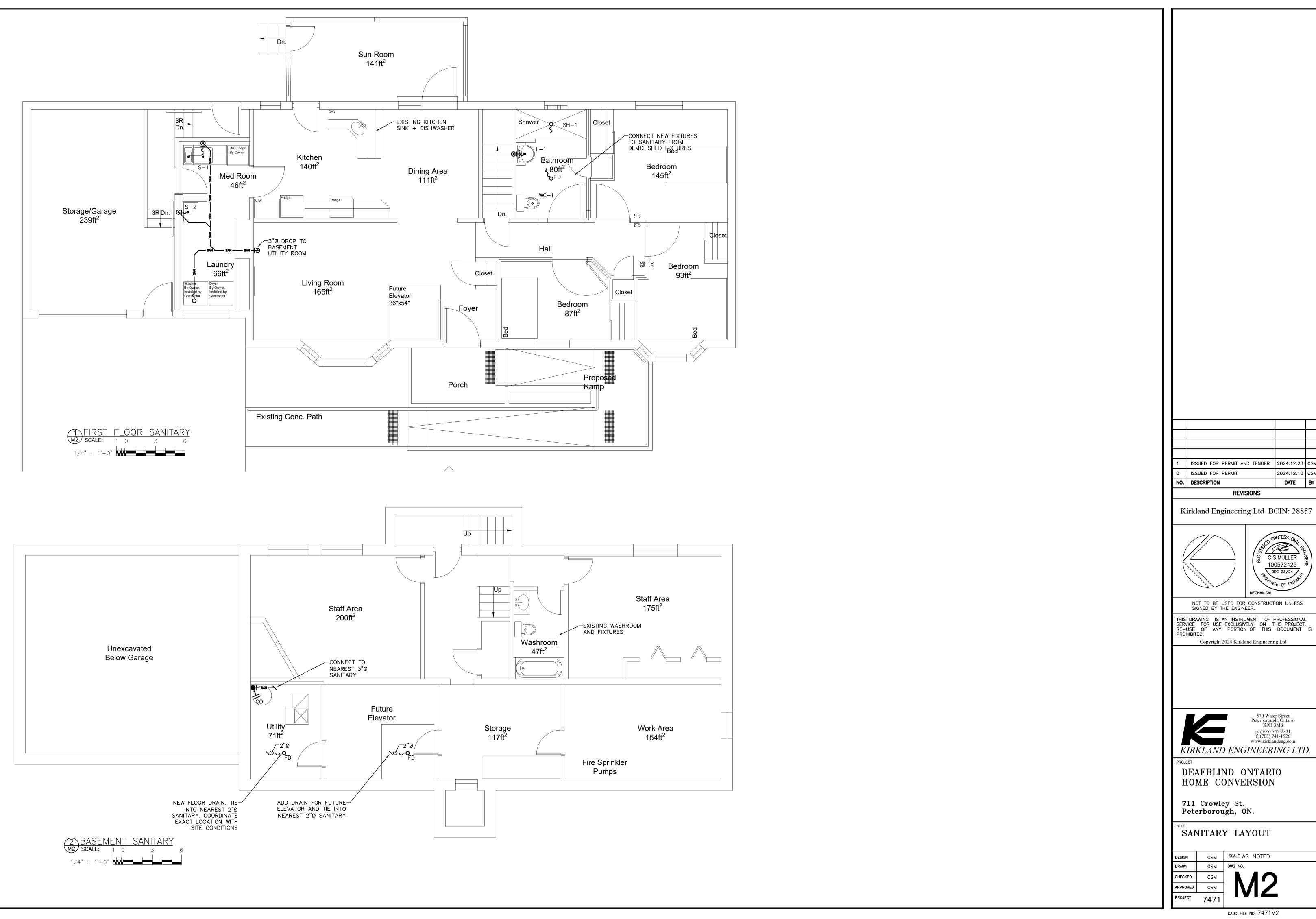
711 Crowley St. Peterborough, ON.

DOMESTIC LAYOUT

	PROJECT	7471
	APPROVED	CSM
	CHECKED	CSM
	DRAWN	CSM
	DESIGN	CSM

DWG NO.

SCALE AS NOTED



CADD FILE NO. 7471M2

2024.12.10 CSM

C.S.MULLER

100572425 DEC 23/24

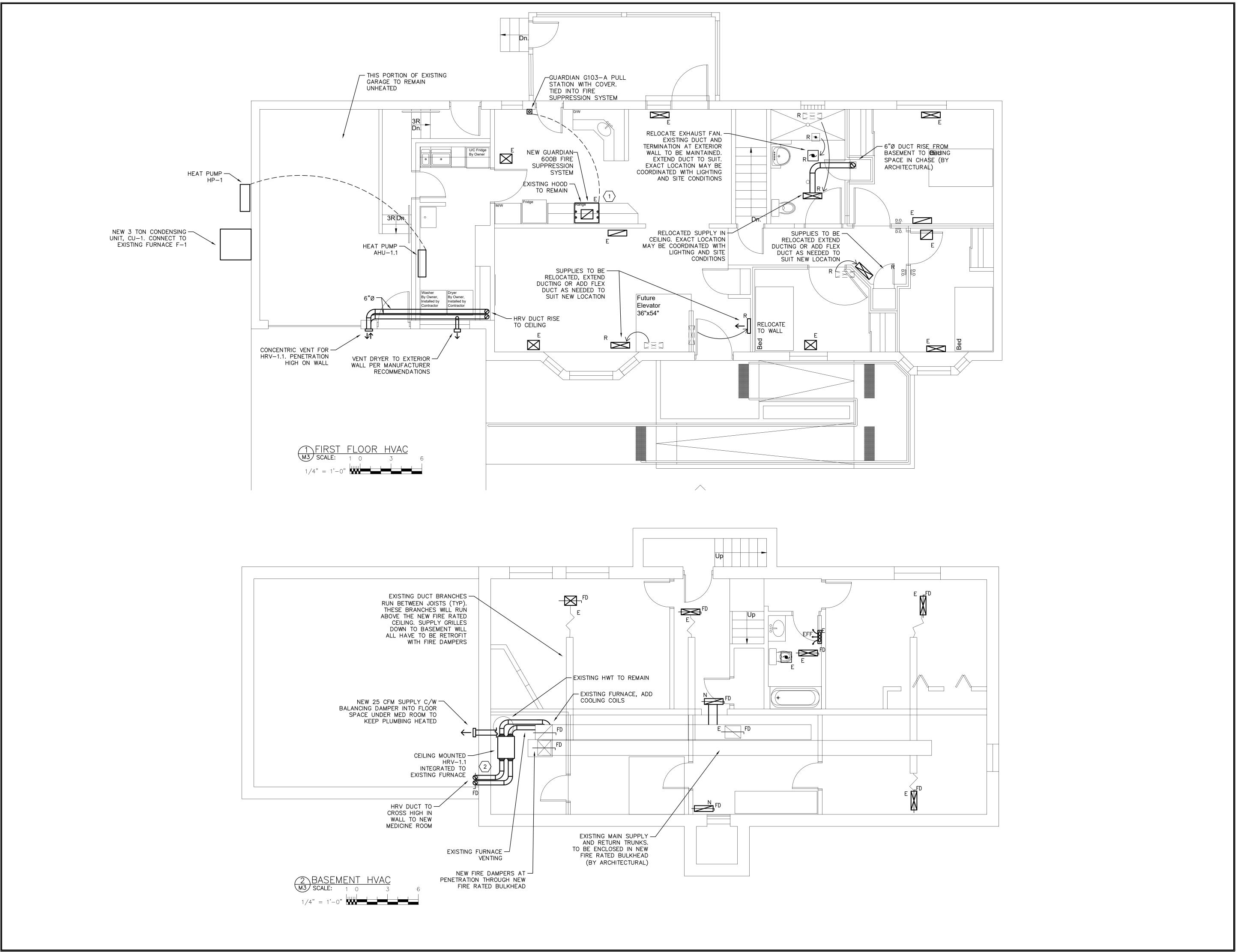
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DATE BY



<u> EGEND:</u>

E EXISTING TO REMAIN

R EXISTING TO RELOCATE

N NEW

GENERAL NOTES:

BASEMENT CEILING TO BE FIRE RATED (BY ARCHITECTURAL)

HORIZONTAL DUCT RUNS IN BASEMENT TO BE ROUTED ABOVE FIRE RATED CEILING. FIRE DAMPERS ARE TO BE ADDED TO ANY DUCT OR GRILLE THAT PENETRATES THE NEW FIRE RATED CEILING.

DRAWING NOTES

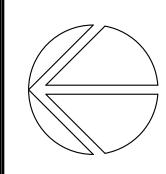
 \langle 1 angle existing range hood complete with New |GUARDIAN 600B FIRE SUPPRESSION SYSTEM. SUPPRESSION SYSTEM FOR RANGES WITH MAX WIDTH OF 30" WIDE X 24" DEEP OR 864 SQI. NOZZLE REQUIRES A MIN HEIGHT OF 16" FROM THE NOZZLE HOUSING TO THE RANGE AND CANNOT EXCEED 27". THE SENSOR REQUIRES A MIN HEIGHT OF 16" TO THE RANGE AND A MAX OF 27". COMPLETE WITH GUARDIAN G103-1 PULL STATION WITH COVER.

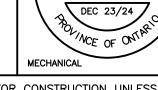
(2) PROVIDE FIRE DAMPER FOR THIS BRANCH WHERE IT CROSSES THE FIRE SEPARATION.

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HVAC LAYOUT

		-
DESIGN	CSM	SCALE AS NOTED
DRAWN	CSM	DWG NO.
CHECKED	CSM	
APPROVED	CSM	
PROJECT	7471	

GENERAL MECHANICAL SPECIFICATIONS

- 1. THE MECHANICAL DRAWINGS DO NOT SHOW ALL THE ARCHITECTURAL, STRUCTURAL AND ELECTRICAL DETAILS. INFORMATION INVOLVING ACCURATE DIMENSIONING OF THE SITE CONDITIONS SHALL BE TAKEN FROM SITE BY CONTRACTOR. CONTRACTOR TO MAKE ANY NECESSARY MODIFICATIONS OR ADDITIONS. WITHOUT CHARGE, TO ACCOMMODATE THE SITE CONDITIONS.
- 2. EQUIPMENT TO BE AS SPECIFIED OR APPROVED EQUIVALENT. DESIGN BASED ON EQUIPMENT AS SPECIFIED IN EQUIPMENT SCHEDULE AND IS NOT INTENDED TO SHOW EQUIPMENT IN EXACT LOCATIONS. CONTRACTOR IS RESPONSIBLE TO VERIFY EQUIPMENT DIMENSIONS TO ENSURE THAT EQUIPMENT WILL FIT SITE CONDITIONS. ANY COST ASSOCIATED WITH USING EQUIPMENT OTHER THAN WHAT IS SPECIFIED IS THE FULL RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA WILL BE ALLOWED FOR THESE COSTS.
- 3. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS, THE SPECIFICATION, AND ALL OTHER TENDER DOCUMENTS.
- 4. ALL PIPING AND DUCT WORK TO BE LABELED INCLUDING DIRECTION OF FLOW EVERY 8' AND EACH CHANGE IN DIRECTION.
- 5. CONTRACTOR IS RESPONSIBLE TO ENSURE ALL EQUIPMENT AND MATERIALS CAN FIT INTO MECHANICAL ROOM OR ITS PLACE, THROUGH FINISHED OPENINGS, OR THAT MATERIAL IS PLACED IN MECHANICAL ROOM AT APPROPRIATE PHASE OF CONSTRUCTION.
- 6. PRIOR TO SUBMITTING TENDERS, THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE ALL EXISTING CONDITIONS. ALLOW FOR ALL COSTS ASSOCIATED WITH COMPLETING THE WORK OF MECHANICAL DIVISION IN ACCORDANCE WITH EXISTING SITE AND BUILDING CONDITIONS. CONTRACTOR TO VERIFY LOCATION OF EXISTING UTILITY CONNECTIONS WHERE CONNECTIONS ARE REQUIRED. CONTRACTOR TO VERIFY LOCATION, DEPTH, ELEVATION, AND SIZE OF INVERT. NO ALLOWANCE FOR EXTRA PAYMENTS TO THE CONTRACTOR WILL BE MADE BY THE OWNER FOR FAILING TO VISIT AND EXAMINE SITE CONDITIONS.
- 7. SUB-CONTRACTOR SHALL MAINTAIN SUCH INSURANCE AS WILL FULLY PROTECT BOTH THE OWNER AND THE SUB-CONTRACTOR FROM ANY AND ALL CLAIMS UNDER THE WORKMEN'S COMPENSATION ACT. ALSO ALL INSURANCE AS NOTED WITHIN ARCHITECTURAL GENERAL CONDITIONS.
- 8. MAINTAIN A SEPARATE SET OF WHITE PRINTS ON THE SITE AND NOTE ALL CHANGES AND DEVIATIONS FROM THE ORIGINAL DESIGN. TWO SETS OF THESE DRAWINGS SHOWING ALL AS-BUILT CONDITIONS SHALL BE FORWARDED TO THE ARCHITECT AT THE COMPLETION OF THIS CONTRACT AND BEFORE APPLYING FOR FINAL PAYMENT.
- 9. ADDITIONAL MONEY OVER THE CONTRACT PRICE SHALL NOT BE PAID UNLESS AN APPROVED CHANGE ORDER IS ISSUED BY THE ARCHITECT. CLAIMS FOR EXTRAS SHALL BE SUBMITTED WITH A COMPLETE BREAKDOWN OF MATERIAL, LABOUR, HOURLY RATES, ETC.
- 10. BE RESPONSIBLE TO KEEP THE AREA CLEAN AT ALL TIMES AND TO PERIODICALLY REMOVE ALL DEBRIS. CONSTRUCTION AREA TO BE ISOLATED BY MEANS OF TARPS AND/OR TEMPORARY PARTITIONS.
- 11. ALL CUTTING AND PATCHING REQUIRED FOR THE WORK OF THIS DIVISION SHALL BE CARRIED OUT BY THIS DIVISION. CUTTING AND DRILLING SHALL BE PERFORMED IN A MANNER SO AS TO CAUSE LITTLE DAMAGE. BE RESPONSIBLE AND PAY FOR ANY DAMAGE TO THE BUILDING INCURRED BY WORK OF THIS DIVISION.
- 12. BE RESPONSIBLE TO COORDINATE THE INSTALLATION OF EQUIPMENT, DUCTING. PIPING, ETC. WITH OTHER TRADES AND THE OWNER'S REPRESENTATIVE PRIOR TO THE ACTUAL INSTALLATION.
- 13. BE RESPONSIBLE FOR MECHANICAL WORK UNTIL THE COMPLETION AND FINAL ACCEPTANCE, FOR REPLACING ANY ITEM THAT MAY BE DEFECTIVE, DAMAGED, LOST OR STOLEN WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY TO THE COMPLETION OF THE PROJECT.
- 14. SHOP DRAWINGS AND PRODUCT DATA. 'SHOP DRAWINGS' MEANS DRAWINGS, DIAGRAMS, ILLUSTRATIONS, SCHEDULES, PERFORMANCE, CHARTS, BROCHURES, AND OTHER DATA WHICH ARE TO BE PROVIDED BY THE CONTRACTOR TO ILLUSTRATE DETAILS OF A PORTION OF THE WORK. INDICATE MATERIALS METHODS OF CONSTRUCTION AND ATTACHMENT OR ANCHORAGE, NECESSARY FOR COMPLETION OF WORK. ADJUSTMENTS MADE ON SHOP DRAWINGS BY OWNER OR ENGINEER ARE NOT INTENDED TO CHANGE CONTRACT PRICE. MAKE CHANGES IN SHOP DRAWINGS AS OWNER OR ENGINEER MAY REQUIRE. SUBMIT 6 HARD COPIES, OR 1 HIGH QUALITY ELECTRONIC COPY OF PRODUCT DATA SHEETS OR BROCHURES FOR ALL MECHANICAL EQUIPMENT. PROVIDE 2 MAINTENANCE MANUALS COMPLETE WITH WARRANTEE. CERTIFICATE OF INSPECTIONS, AND COPY OF ALL PRODUCT LITERATURE AND MAINTENANCE INFORMATION.
- 15. PRIOR TO FINAL INSPECTION DEMONSTRATE OPERATION OF EACH SYSTEM TO OWNER AND ENGINEER. INSTRUCT PERSONNEL IN OPERATION ADJUSTMENT AND MAINTENANCE OF EQUIPMENT AND SYSTEMS, USING PROVIDED OPERATION AND MAINTENANCE DATA AS BASIS FOR INSTRUCTION.
- 16. AFTER THE WORK IS COMPLETED, GIVE A WRITTEN GUARANTEE FOR ONE YEAR COVERING WORKMANSHIP AND MATERIALS. REPAIR OR REPLACE, WITHOUT EXPENSE TO THE OWNER. ANY DEFECTS DUE TO WORKMANSHIP OR MATERIALS WHICH IN THE OWNER'S OPINION, ARE NOT DUE TO MISUSE OR NEGLECT.
- 17. THE MECHANICAL CONTRACTOR SHALL ENSURE THAT EVERY FIXTURE, PLUMBING APPLIANCE, INTERCEPTOR, CLEANOUT, VALVE, DEVICE OR PIECE OF EQUIPMENT SHALL BE LOCATED IN A MANNER THAT IT IS READILY ACCESSIBLE FOR USE, CLEANING, MAINTENANCE OR REPAIR. MECHANICAL CONTRACTOR SHALL PROVIDE ACCESS DOORS LARGE ENOUGH TO PERMIT EASY ACCESS TO CONCEALED FIXTURES, PLUMBING APPLIANCES, FIRE DAMPERS, INTERCEPTORS, CLEANOUTS, VALVES, DEVICES OR PIECES OF EQUIPMENT.
- 18. CONTRACTOR SHALL CARRY THE SERVICES OF AN APPROVED FIRE STOPPING INSTALLER AND SHALL PROVIDE ALL FIRE STOPPING FOR ALL MECHANICAL AND ELECTRICAL PENETRATIONS. PROVIDE SHOP DRAWINGS FOR FIRE STOPPING MATERIALS USED.
- 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF THEIR PROPERTY. THE OWNER BEARS NO RESPONSIBILITY FOR PROTECTION FROM THEFT, FIRE, OR ENVIRONMENTAL CONDITIONS.
- 20. ALL PIPING AND DUCTING SHOWN FOR SCHEMATIC AND SCOPE OF WORK PURPOSES IN GENERAL LOCATION OF USE. COORDINATE EXACT ROUTING ON SITE AND WITH BEST PRACTICES.
- 21. ALL EQUIPMENT (PUMPS, HVAC UNITS, ROOFTOP FANS, ETC.) TO BE PROVIDED WITH VIBRATION ISOLATION DEVICES.

GENERAL HVAC SPECIFICATIONS

1. PROVIDE DUCTWORK IN ACCORDANCE WITH A.S.H.R.A.E. AND INTERNATIONAL MECHANICAL CODES CHAPTER 5 SECTION 506,, LATEST EDITION. ALL DUCTS SHALL BE FABRICATED FROM PRIME QUALITY GALVANIZED STEEL AS PER A.S.H.R.A.E. STANDARDS. DUCTS SHALL BE INSTALLED AS HIGH AS POSSIBLE. PROPER ANGLE IRON SUPPORTS, HANGERS, ETC., SHALL BE PROVIDED FOR ALL DUCTS, SEAL ALL JOINTS OF DUCTS WITH HIGH PRESSURE SEALER. APPLY SEALANT TO OUTSIDE OF JOINTS AS PER MANUFACTURERS RECOMMENDATIONS. CONSTRUCT DUCTS IN ACCORDANCE WITH THE FOLLOWING:

MAX DUCT DIMENSION U.S. GAUGE UP TO 12" 26 13" TO 30" 24 31" TO 54"

CONSTRUCT ROUND DUCTS IN ACCORDANCE WITH THE FOLLOWING:

4" TO 8" DIAMETER - 26 GAUGE 9" TO 24" DIAMETER - 24 GAUGE

- EQUIVALENT DUCT SIZES MAY BE SUBSTITUTED IN LIEU OF THOSE SHOWN, IN ORDER TO AVOID INTERFERENCE WITH STRUCTURE AND OTHER MECHANICAL SERVICES. CONTRACTOR TO PROVIDE DRAWINGS OF ANY PROPOSED CHANGES TO ENGINEER FOR APPROVAL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN DESIGN AIR FLOW WITH DUCT INSTALLATION. ALL SUPPLY & RETURN BRANCHES SHALL BE AT 45° TAKE OFFS.
- 3. THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF EQUIPMENT PRIOR TO FABRICATION AND INSTALLATION OF DUCTWORK. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED ELBOWS, DUCT ACCESSORIES, ETC. TO COMPLETE THE INTENT OF THE MECHANICAL DRAWINGS.
- 4. HVAC EQUIPMENT MUST NOT BE USED DURING CONSTRUCTION. DUCT OPENINGS SHALL BE COVERED TO KEEP OUT DUST AND DEBRIS. COMMISSIONING MUST NOT
- 5. INSULATE ALL DUCTS IN ACCORDANCE WITH ASHRAE 90.1, LATEST EDITION.

BE PERFORMED UNTIL ALL INTERIOR FINISHES ARE COMPLETE.

- 6. MECHANICAL EQUIPMENT TO BE ISOLATED FROM DUCT WORK USING 6" FLEXIBLE DUCT CONNECTORS ON BOTH THE SUPPLY AND RETURN DUCTS.
- 7. ALL MITERED ELBOWS TO BE COMPLETE WITH DOUBLE THICKNESS AIR VANES. ALL RADIUSED ELBOWS TO BE COMPLETE WITH SPLITTER VANES PER SMACNA DUCT CONSTRUCTION STANDARDS.
- 8. PROVIDE VOLUME DAMPERS AT ALL DUCT BRANCHES AND TAKE-OFFS.
- 9. PROVIDE AN INDEPENDENT FIRM CERTIFIED BY NEBB TO CONDUCT TESTING, ADJUSTING AND BALANCING OF ALL MECHANICAL SYSTEMS AND COMPONENTS, INCLUDING ALL DUCTS AND HYDRONIC PIPING. SUBMIT WRITTEN REPORT IN TRIPLICATE TO MECHANICAL ENGINEER UPON COMPLETION.
- 10. MAXIMUM LENGTH OF FLEX DUCT PERMITTED IS 10' PER DIFFUSER. NO FLEX DUCT IS PERMITTED ON EXPOSED DUCT WORK.
- 11. PROVIDE FIRE DAMPERS IN DUCTS AT FLOOR, WALL, CEILING, AND ROOF PENETRATIONS WHERE FIRE SEPARATIONS ARE CROSSED, AND WHERE REQUIRED BY LOCAL AUTHORITIES AND CODES. FIRE DAMPERS SHALL MAINTAIN 100% FREE AREA OF DUCTWORK (TYPE 'B' FIRE DAMPERS). RATE FIRE DAMPERS TO MATCH THE FIRE RATING OF SEPARATION CROSSED. PROVIDE ONLY ULC LABELED DAMPERS AND INSTALL AS SPECIFIED IN NFPA/CUA 90A.
- 12. SUPPLY AND RETURN DUCTS SHALL BE CONNECTED TO THE HVAC UNIT THROUGH A FLEXIBLE NON METALLIC DUCT.
- 13. 10' OF ACOUSTIC SOUND INSULATION SHALL BE PROVIDED TO THE DUCTS AT THE BEGINNING NEAR THE HVAC UNIT.
- 14. SMOKE DETECTORS AT SUPPLY DUCTS SHALL BE PROVIDED TO AUTOMATICALLY SHUT DOWN UNITS UPON DETECTION OF SMOKE.

GENERAL PLUMBING SPECIFICATIONS

- 1. UNLESS OTHERWISE NOTED ALL HOT AND COLD WATER PIPING AFTER THE MAIN BUILDING CWS ISOLATION VALVE SHALL BE HARD COPPER TYPE L PIPING WHICH SHALL CONFORM TO ASTM B42 AND ASTM B88.
- 2. ALL DOMESTIC WATER PIPING TO BE INSULATED c/w VAPOUR BARRIER. PIPE INSULATION TO CONFORM O.B.C. TABLE 12.3.4.5.
- 3. ALL DRAINAGE, WASTE, AND VENT PIPE TO BE PVC DWV WITH FLAME SPREAD RATING < 25. PIPES TO BE XFR WHERE PENETRATING FIRE RATED WALLS.
- 4. WATER HAMMER ARRESTORS TO BE STAINLESS STEEL BELLOWS TYPE; WATTS SS-A OR APPROVED EQUIVALENT.
- 5. ROUTE ABOVE GROUND PIPING IN CEILING SPACE OF WALL INTERIORS FOR CONCEALMENT WHERE EVER POSSIBLE UNLESS SPECIFICALLY NOTED OTHERWISE ON DRAWINGS. COORDINATE PIPE INSTALLATION IN WALLS WITH MASON AND OR DRYWALLER OR APPROPRIATE TRADE INVOLVED.
- 6. INSTALL ISOLATION VALVES IN EACH BRANCH LINE FROM COLD AND HOT WATER MAINS, AT BASE OF EACH RISER, AND BEFORE EACH FIXTURE OR EQUIPMENT CONNECTED TO COLD/HOT WATER SYSTEM. PROVIDE A FIRE RATED ACCESS DOOR AT EACH CONCEALED VALVÉ.
- 7. INSTALL FLANGES OR UNIONS TO PERMIT REMOVAL OF EQUIPMENT WITHOUT DISTURBING PIPING SYSTEMS.
- 8. PROVIDE COMPLETE DRAINAGE AND VENT SYSTEMS TO SERVE FIXTURES AND ITEMS SPECIFIED AND AS SHOWN ON PLANS.
- 9. WHERE EXPOSED PIPES PASSES THROUGH FINISHED FLOORS, WALLS, OR CEILINGS, PROVIDE CHROME PLATED ESCUTCHEON WITH SET SCREW.
- 10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY MATERIALS & LABOUR TO MAINTAIN ALL FIRE SEPARATIONS AFFECTED BY THE WORK PERFORMED.
- 11. GRADE HORIZONTAL SANITARY DRAINAGE AND VENT PIPING AT MINIMUM 1:50.
- 12. ALL FAUCET AND TOILET SUPPLY LINES SHALL BE STAINLESS BRAIDED HOSE.
- 13. ALL FLOOR DRAINS TO BE TRAPPED, PRIMED, AND VENTED WITH STRAINER INSTALLED FLUSH WITH FINISHED FLOOR. SUPPLY AND INSTALL PRIMER AND TUBING FROM CLOSEST COLD WATER BRANCH, C/W SPECIALTY BLEED VALVE (P.P.P. OR EQUAL), UNLESS OTHERWISE SPECIFIED IN DRAWINGS.
- 14. EXPOSED P-TRAPS SHALL BE CHROME PLATED BRASS.
- 15. SIZE OF DRAINAGE PIPE SERVING FIXTURES:

DISHWASHER	1-1/2"	(38mm)	LAVATORY	1-1/2"	(38mm)
SINK	1-1/2"	(38mm)	SHOWER	1-1/2"	(38mm)
SERVICE SINK	1-1/2"	(38mm)	URINAL	2"	(51mm)
WC	3"	(76mm)	FLOOR DRAIN	2"	(51mm)

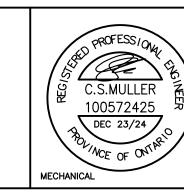
16. SIZE OF EITHER CWS & HWS ISOLATION VALVES SERVING FIXTURES:

DISHWASHER	1/2" (13mm)	LAVATORY	1/2" (13mm)
SINK	1/2" (13mm)	SHOWER	1/2" (13mm)
SERVICE SINK	1/2" (13mm)	URINAL	3/4" (19mm)
WC	1/2" (13mm)	WF	1/2" (13mm)

- 17. ALL PIPING FITTINGS WITH TERMINAL EQUIPMENT SHALL BE LEAD FREE.
- 18. THE CONTRACTOR IS RESPONSIBLE FOR THE INSULATION OF THE STORM PIPES INSIDE THE
- 19. ALL PIPING IS TO BE STRAIGHT, PARALLEL AND PERPENDICULAR TO THE BUILDING STRUCTURE. SLOPE ALL PIPING TO DRAIN POINTS.
- 20. WHEN PIPE LAYING NOT IN PROGRESS. CLOSE OFF OPEN ENDS OF PIPE WITH WATER TIGHT PLUG OR CAP.
- 21. INSTALL CLEANOUTS AS REQUIRED BY PLUMBING CODES. SIZE OF CLEANOUTS TO MATCH SIZE OF ASSOCIATED SANITARY PIPE. ENSURE CLEAN OUTS ARE MADE ACCESSIBLE.
- 22. CONNECT FIXTURES COMPLETE WITH SUPPLIES AND DRAINS, TRAPPED, SUPPORTED. SANITARY LEVEL AND SQUARE WITH HOT WATER FAUCETS ON THE LEFT.

REVISIONS								
NO.	DESCRIPTION	DATE	BY					
0	2024.12.10	CSM						
1	ISSUED FOR PERMIT AND TENDER	2024.12.23	CSM					

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DEAFBLIND ONTARIO

HOME CONVERSION

711 Crowley St. Peterborough, ON.

MECHANICAL SPECIFICATIONS

CSM | SCALE N.T.S. DESIGN DRAWN CSM DWG NO. CHECKED CSM APPROVED CSM PROJECT 7471

CADD FILE NO. 7471M4

	HRV SCHEDULE										
IDENT. MANUFACTURER MODEL POWER DUCT SIZE CFM/STATIC CONTR								NOTES			
	HRV-1	LIFEBREATH	METRO 120D	120/1/60 1.4A 66W	5"ø COLLARS	129 CFM @ 0.3"	WALL MOUNT CONTROLLER (H)	c/w WALL MOUNTED CONTROL, MOUNTING BRACKETS, CONCENTRIC VENT KIT. DAMPER DEFROST. TO BE ORDERED WITH PLUG.			

	HEAT PUMP (OUTDOOR UNIT) SCHEDULE										
IDENT.	MANUFACTURER	MODEL #	COOLING NOMIAL CAPACITY (BTUH)	HEATING NOMINAL CAPACITY (BTUH)	QTY INDOOR UNITS	ELECTRICAL INFO	MCA / MOCP	DIMENSIONS (H"XW"XD")	SEER	WEIGHT (LBS)	REMARKS
HP-1	MITSUBISHI	MUZ-HM09NA	10,000	9,000	1	230/208V, 1-PHASE, 60 HZ	9.0A/15A	21-5/8"X 31-1/2"X 11-1/4"	18.0	73	OUTDOOR HEAT PUMP TO BE ORDERED COMPLETE WITH INDOOR AIR HANDLING UNITS AHU-1.1. INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT THROUGH FIELD-SUPPLIED INTERCONNECTED WIRING. WIRING AND CONNECTIONS BY ELECTRICAL. UNIT HEATING OPERATIONAL RANGE FROM -20°C TO 24°C. WALL BRACKET BY MANUFACTURER.

	AHU SCHEDULE										
IDENT.	MANUFACTURER	MODEL #	COOLING NOMINAL CAPACITY (BTUH)	HEATING NOMINAL CAPACITY (BTUH)	MIN/MAX AIR FLOW (CFM)	DIMENSIONS (H"XW"XD")	WEIGHT (LBS)	REMARKS			
AHU-1.1	MITSUBISHI	MSZ-HM09NA	9,000	10,000	170-406	11-5/8"X 31-7/16"X 9-1/8"	22	INDOOR AIR HANDLER TO BE PAIRED WITH OUTDOOR UNIT HP-1.			

CONDENSER SCHEDULE								
IDENT.	MANUFACTURER	TYPE	POWER	MODEL	CAPACITY (MBH)	REMARKS		
CU-1	YORK	CONDENSING UNIT	240/1/60 MCA:18.9A MOP:30A	YC2E36 SB21S	COOLING: 36MBH	TO REPLACE EXISTING CONDENSING UNIT. TO BE CONNECTED TO EXISTING FURNACE		

WC-1: TOILET - BF FLOOR MOUNTED WITH FLOOR OUTLET

AMERICAN STANDARD 215AA104.020 TOILET - CADET® PRO™, TANK TYPE TOILET, FLOOR MOUNTED WITH FLOOR OUTLET, HIGH EFFICIENCY HET 4.8 LPF (1.28 GPF), WHITE FINISH VITREOUS CHINA, EVERCLEAN® ANTIMICROBIAL SURFACE, ELONGATED BOWL, RIGHT HEIGHT® RIM AT 419 MM (16-1/2"), MINIMUM 305 MM (12") ROUGH-IN FROM WALL TO THE CENTER OF WASTE OUTLET, SIPHON JET FLUSH ACTION, MANUAL, POLISHED CHROME LEFT-HAND TRIP LEVER (7381231-200.0020A), GRAVITY-ASSISTED FLUSH, CADET® FLUSHING SYSTEM, 76 MM (3") FLUSH VALVE, TOILET SEAT NOT INCLUDED, COMPLIANCES: ASME A112.19.2 COMPLIANT, CSA B45.1 COMPLIANT, EPA WATERSENSE®

CENTOCO 600-407 SEAT - FOR ELONGATED BOWL, CLOSED FRONT, LIGHT DUTY, FOR COMMERCIAL APPLICATIONS, POLYPROPYLENE, TOILET SEAT, WITH SEAT COVER, TOP-MOUNTED HINGES, SPECIFIED IN BLACK FINISH, INCLUDES PLASTIC HARDWARE, 22 MM (7/8") HIGH, 381 MM (15") WIDE.

MCGUIRE LFBV172 SUPPLY - LEAD FREE, WITH CHROME-PLATED FINISH, CONVERTIBLE QUARTER-TURN SUPPLY, TOILET, TWO 13 MM (1/2) COPPER SWEAT X 10 MM (3/8)OUTER Ø BRASS BALL VALVE CONNECTION, 2 DEEP BELL FLANGE, CONVERTIBLE LOOSE KEY HANDLE, EXTENSION IS 127 MM (5") LENGTH, 304 MM (12") COPPER FLEXIBLE

L-1: LAVATORY - BF SEMI-COUNTERTOP LAVATORY

AMERICAN STANDARD 9960803.020 BASIN - MEZZO, SEMI-COUNTERTOP LAVATORY, FINE FIRE CLAY, WHITE FINISH, 203 MM (8") CENTERSET, REAR OVERFLOW, WITH FAUCET LEDGE, MOUNTING KIT SUPPLIED, OVERALL DIMENSIONS: 559 MM (22") LONG, 546 MM

(21-1/2") WIDE, 172 MM (6-25/32") HIGH, BOWL DIMENSIONS: 483 MM (19") LONG, 381 MM (15") WIDE, 175 MM (6-7/8") DEEP.

AMERICAN STANDARD 7075800.002 FAUCET - COLONY® PRO, COUNTER MOUNTED, MANUAL, TWO HANDLES, LAVATORY FAUCET, POLISHED CHROME FINISH, 203 MM (8") CENTERSET, LEAD FREE ANSI/NSF 61 AND ANSI/NSF 372 COMPLIANT METAL BODY, 610 MM (24") STAINLESS STEEL BRAIDED FLEXIBLE SUPPLY HOSES WITH 10 MM (3/8") COMPRESSION CONNECTIONS, 1/4 TURN WASHERLESS CERAMIC DISC VALVE CARTRIDGES, 4.5 LPM (1.2 GPM) MAXIMUM FLOWRATE. PRESSURE COMPENSATING AERATOR. FIXED MID-ARC SPOUT, 118 MM (4-5/8") SPOUT REACH, 98 MM (3-7/8") HIGH, LEVER HANDLE, METAL POP-UP DRAIN.

LAWLER 570-86820 MIXING VALVE - POINT OF USE AND MASTER CONTROLLED FIXTURES, THERMOSTATIC MASTER WATER MIXING CONTROL VALVE, THE TEMPERATURE IS ADJUSTED

MCGUIRE 155WC FIXTURE DRAIN - OFFSET DRAIN, OFFSET LAVATORY STRAINER, LAVATORY, CAST BRASS, CHROME-PLATED FINISH, INORGANIC MICROBIAL COMPOUND, 7/32" (5.5 MM) Ø HOLES SIZE, POLISHED CHROME, CAST BRASS ELBOW, 17 GAUGE 32 MM (1-1/4") Ø TAILPIECE, 146 MM (5-3/4") OFFSET, BRASS LOCKNUT, HEAVY RUBBER BASIN WASHER FIBER FRICTION WASHER, ADA COMPLIANT, ASME A112.18.2 CSA B125.2, CSA COMPLIANT

MCGUIRE LFBV170 SUPPLY - CONVERTIBLE™ COMMERCIAL FAUCET SUPPLY KIT, CONSISTING OF (2) STOP VALVES, (2) RISERS, (2) FLANGES (STANDARD), LEAD FREE BRASS BODY, CHROME-PLATED FINISH, 138 - 862 KPA (20 - 125 PSI) OPERATING PRESSURE, 4 TO 60 °C (40 TO 140 °F) OPERATING TEMPERATURE, CONVERTIBLE LOOSE KEY/TRIANGLE HANDLE, QUARTER TURN BALL VALVE, ANGLE STOP, C.P. WROUGHT STEEL DEEP BELL WALL FLANGE (STANDARD), C.P. PREFABRICATED 127 MM (5") COPPER SWEAT TUBE EXTENSION NIPPLE, 305 MM (12") C.P. LAVATORY FLEXIBLE COPPER RISER TUBES (STANDARD), 13 MM (1/2") SWEAT INLET X 10 MM (3/8") O.D. OUTLET, 82 °C (180 °F) MAXIMUM DURING HIGH-TEMPERATURE SYSTEM FLUSH, AB 100 COMPLIANT, ASME A112.18.1 COMPLIANT, ASME A112.18.2-2 (RISERS), CSA B125.2 COMPLIANT (RISERS), CERTIFIED TO NSF/ANSI 372, CERTIFIED TO NSF/ANSI 61, UPC

MCGUIRE PW2125WC P-TRAP - MOLDED CLOSED CELL VINYL (ANTI-MICROBIAL) WRAPPED CAST BRASS, GLOSSY WHITE, WITH CLEANOUT

S-1: COUNTER MOUNTED - UNDERMOUNT - KITCHEN SINKKINDRED QCUA1831L-8 SINK -DOUBLE COMPARTMENT SINK, KITCHEN SINK, WITH OVERALL DIMENSION 785 MM (30-7/8") LONG, 451 MM (17-3/4") WIDE, 203 MM (8") HIGH, CONSTRUCTED FROM 20 GAUGE TYPE 304 STAINLESS STEEL, LEFT BOWL IS 254 (10") LONG AND RIGHT BOWL IS 457 MM (18") LONG, LEFT BOWL IS 406 MM (16") WIDE AND RIGHT BOWL IS 406 MM (16") WIDE, LEFT BOWL IS 178 MM (7") DEEP AND RIGHT BOWL IS 203 MM (8") DEEP, RADIANT SILK FINISH, COLANDER (112.0202.209), CENTER BACK WASTE LOCATION, 89 MM (3-1/2") DIAMETER WASTE OUTLET, 838 MM (33") MINIMUM CABINET

CHICAGO FAUCETS 786-GN8FCXKABCP FAUCET - COUNTER MOUNTED, MANUAL, TWO HANDLES, SINK FAUCET, CHROME-PLATED FINISH, 203 MM (8") CENTERSET, LEAD FREE ANSI/NSF 61 AND ANSI/NSF 372 COMPLIANT ECAST® BRASS CONSTRUCTION, -377-XKAB CERAMIC 1/4 TURN CARTRIDGE, 5.7 LPM (1.5 GPM) MAXIMUM FLOWRATE, -FC 5.7 LPM (1.5 GPM) LAMINAR FLOW CONTROL INSERT IN SPOUT INLET, PLAIN END OUTLET, RIGID/SWING GOOSENECK SPOUT, 203 MM (8") SPOUT REACH, -317-PR VANDAL-RESISTANT 102 MM (4") METAL WRIST BLADE HANDLES WITH RED & BLUE INDEX, GRID DRAIN INCLUDED, 13 MM (1/2) NPSM SUPPLY INLET FOR 10 MM (3/8)OR 13 MM (1/2") FLEXIBLE RISER.

MCGUIRE LFBV170 SUPPLY - CONVERTIBLE™ COMMERCIAL FAUCET SUPPLY KIT, CONSISTING OF (2) STOP VALVES, (2) RISERS, (2) FLANGES (STANDARD), LEAD FREE BRASS BODY, CHROME-PLATED FINISH. 138 - 862 KPA (20 - 125 PSI) OPERATING PRESSURE, 4 TO 60 °C (40 TO 140 °F) OPERATING TEMPERATURE, CONVERTIBLE LOOSE KEY/TRIANGLE HANDLE, QUARTER TURN BALL VALVE, ANGLE STOP, C.P. WROUGHT STEEL DEEP BELL WALL FLANGE (STANDARD), C.P. PREFABRICATED 127 MM (5") COPPER SWEAT TUBE EXTENSION NIPPLE, 305 MM (12") C.P. LAVATORY FLEXIBLE COPPER RISER TUBES (STANDARD), 13 MM (1/2") SWEAT INLET X 10 MM (3/8") O.D. OUTLET, 82 °C (180 °F) MAXIMUM DURING HIGH-TEMPERATURE SYSTEM FLUSH, AB 100 COMPLIANT, ASME A112.18.1 COMPLIANT, ASME A112.18.2-2 (RISERS), CSA B125.2 COMPLIANT (RISERS), CERTIFIED TO NSF/ANSI 372, CERTIFIED TO NSF/ANSI 61, UPC COMPLIANT.

MCGUIRE 8912CB P-TRAP - HEAVY CAST BRASS, ADJUSTABLE P-TRAP, 292 MM (11-1/2") LENGTH. WITH CLEANOUT PLUG. STEEL BOX FLANGE, NEOPRENE GASKET. SEAMLESS TUBULAR BRASS BEND, SLIPNUTS

SH-1: BF SHOWER: LONGEVITY BARRIER-FREE WHEELCHAIR ROLL-IN SHOWER LONGEVITY SC2366 CSA 3BAR PHENOLIC SEAT. 1-PIECE SHOWER. CENTRE DRAIN, RIGHT SEAT, H 84" W 66" D 36.5". DOMED, WHITE. CSA COMPLIANT: B45.5-11/IAPMO

Z124-2011 CAN/ULC - S102.2 - M88 FLAME SPREAD FRP LAMINATE RATING. AMERICAN STANDARD TU662SG213.002 COMPLETE SHOWER TRIM - POLISHED CHROME FINISH, HAND SHOWER, SHOWERHEAD AND VALVE TRIM, 5.7 LPM (1.5 GPM) SHOWERHEAD FLOWRATE, FLOWISE SHOWERHEAD, 3-FUNCTION HAND SHOWER WITH NON-POSITIVE SHUT OFF (1660.766), 5.7 LPM (1.5 GPM) HANDSHOWER FLOWRATE. 59" (1500 MM) SHOWER HOSE (8888.035), METAL LEVER HANDLE, PRESSURE BALANCE VALVE, ADJUSTABLE HIGH TEMPERATURE LIMIT STOP, VALVE TRIM WITH METAL HANDLE AND ESCUTCHEON, 914 MM (36") SLIDE GRAB BAR (1662.236), 2-WAY DIVERTER (R422), COMBINATION OF CERAMIC DISC MIXING VALVE AND A CERAMIC BALANCING SPOOL IN A ONE-PIECE CARTRIDGE, WATERSENSE® CERTIFIED, ADA, ASSE 1016, ASME A112.18.1016, CSA B125.16, ASME A112.18.1, CSA B125.1

AMERICAN STANDARD T105430.002 DIVERTER VALVE TRIM - STUDIO® S, IN-WALL DIVERTER VALVES, SOLID BRASS CONSTRUCTION, POLISHED CHROME FINISH, STAMPED BRASS ESCUTCHEON, LESS VALVE, VALVE TRIM ONLY, 1/2" NPT CONNECTIONS ON MIXED WATER INLET AND TWO (R422/R422S) OR THREE (R433/R433S) OUTLETS, LEVER HANDLE, MEETS THE AMERICAN DISABILITIES ACT GUIDELINES AND ANSI A117.1 REQUIREMENTS FOR THE PHYSICALLY CHALLENGED., ASME A112.18.1, PERMITS CHECKING OF VALVE INSTALLATION PRIOR TO INSTALLING TRIM PARTS, CANNOT BE USED AS A SHUT-OFF VALVE

AMERICAN STANDARD 1660.505.002 W/ 95866 HAND SHOWER - GROHE 95866 VOLUME CONTROL WITH NON-POSITIVE SHUTOFF, FIXED PERSONAL SHOWER, POLISHED CHROME FINISH, HAND HELD PERSONAL SHOWERS, 9.5 LPM (2.5 GPM), FIXED CONVENTIONAL SPRAY, (2-5/8"), (5-3/4"), AMERICAN STANDARD 1662.236.002 SLIDE BAR — CONCEALED SCREW MOUNTING SYSTEM, COMMERCIAL, COMMERCIAL SHOWER SYSTEMS, SLIDE/GRAB BAR, POLISHED CHROME FINISH, 38 MM (1-1/2)DIAMETER STAINLESS STEEL BAR, 914 MM (36") STAINLESS BAR, CHROME-PLATED HAND SHOWER HOLDER, CHROME-PLATED ADJUSTABLE SLIDE MECHANISM, MEETS ANSI STANDARD 250 LB PULL TEST.MEETS AMERICAN DISABILITIES ACT (ADA),

INCLUDES MOUNTING SCREWS AND ANCHORS AMERICAN STANDARD 8888.037.075 WALL SUPPLY - WALL SUPPLY, PVD STAINLESS STEEL FINISH, INCLUDES CHECK VALVE, 1/2" NPT FEMALE THREAD, 1/2" NPSM MALE HOSE THREAD

AMERICAN STANDARD 8888.036.002 HAND SHOWER HOLDER - FIXTURE WALL BRACKET, POLISHED CHROME FINISH

AMERICAN STANDARD 1660.400.002 VACUUM BREAKER - VACUUM BREAKER, POLISHED CHROME FINISH FOR INLINE WITH 13 MM (1/2") SIZE, ATTACHES BETWEEN SUPPLY OUTLET AND PERSONAL SHOWER HOSE.

S-2: FLOOR MOUNTED - LAUNDRY SINK

FIAT FL1100 SINK - SINGLE COMPARTMENT SINK, 102 MM (4") KNOCKOUT CENTER (FIELD DRILLED), LAUNDRY SINK, WITH OVERALL DIMENSION 584 MM (23") LONG, 546 MM (21-1/2) WIDE, 851 MM (33-1/2) HIGH, CONSTRUCTED FROM MOLDED STONE, BOWL DIMENSIONS ARE 341 MM (13-7/16") DEEP, WHITE FINISH, WHITE BAKED ENAMEL STEEL ANGLE LEGS {533 MM (21")} THAT SLIP INTO MOLDED RETAINERS AND/OR SOCKETS FOR RIGID FRICTION FIT, LEGS ARE SUPPLIED WITH LEVELING DEVICE (1898800100), INCLUDES DRAIN WITH STOPPER, CP FAUCET CLAMP-ON, CHROME-PLATED FAUCET WITH 102 MM (4") BLADE HANDLES, 203 MM (8") 360° SWING SPOUT, ANGLED HOSE CONNECTION FOR OVERHEAD SUPPLIES (A17), COMPLIANCES AND CERTIFICATIONS: UPC COMPLIANT.

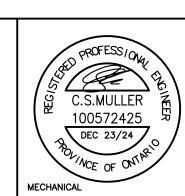
FIAT A1000 FAUCET - COUNTER MOUNTED, MANUAL, TWO HANDLES, LAUNDRY FAUCET, CHROME-PLATED FINISH, 102 MM (4") CENTERSET, METAL, NO FLOW RESTRICTOR, AERATOR, SWIVEL DOUBLE-BEND SPOUT, 172 MM (6-3/4") SPOUT REACH, WRIST BLADE HANDLES.

MCGUIRE LFBV170 SUPPLY - CONVERTIBLE™ COMMERCIAL FAUCET SUPPLY KIT, CONSISTING OF (2) STOP VALVES, (2) RISERS, (2) FLANGES (STANDARD), LEAD FREE BRASS BODY, CHROME-PLATED FINISH, 138 - 862 KPA (20 - 125 PSI) OPERATING PRESSURE, 4 TO 60 °C (40 TO 140 °F) OPERATING TEMPERATURE, CONVERTIBLE LOOSE KEY/TRIANGLE HANDLE, QUARTER TURN BALL VALVE, ANGLE STOP, C.P. WROUGHT STEEL DEEP BELL WALL FLANGE (STANDARD), C.P. PREFABRICATED 127 MM (5") COPPER SWEAT TUBE EXTENSION NIPPLE, 305 MM (12") C.P. LAVATORY FLEXIBLE COPPER RISER TUBES (STANDARD), 13 MM (1/2") SWEAT INLET X 10 MM (3/8") O.D. OUTLET, 82 °C (180 °F) MAXIMUM DURING HIGH-TEMPERATURE SYSTEM FLUSH, AB 100 COMPLIANT, ASME A112.18.1 COMPLIANT, ASME A112.18.2-2 (RISERS), CSA B125.2 COMPLIANT (RISERS), CERTIFIED TO NSF/ANSI 372, CERTIFIED TO NSF/ANSI 61, UPC COMPLIANT.

MCGUIRE 8912CB P-TRAP - HEAVY CAST BRASS, ADJUSTABLE P-TRAP, 292 MM (11-1/2") LENGTH, WITH CLEANOUT PLUG, STEEL BOX FLANGE, NEOPRENE GASKET, SEAMLESS TUBULAR BRASS BEND, SLIPNUTS

ISSUED FOR PERMIT AND TENDER 2024.12.23 C ISSUED FOR PERMIT 2024.12.10 CSM NO. DESCRIPTION **REVISIONS**

Kirkland Engineering Ltd BCIN: 28857



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570 Water Street Peterborough, Ontario K9H 3M8 p. (705) 745-2831 f. (705) 741-1526 www.kirklandeng.com

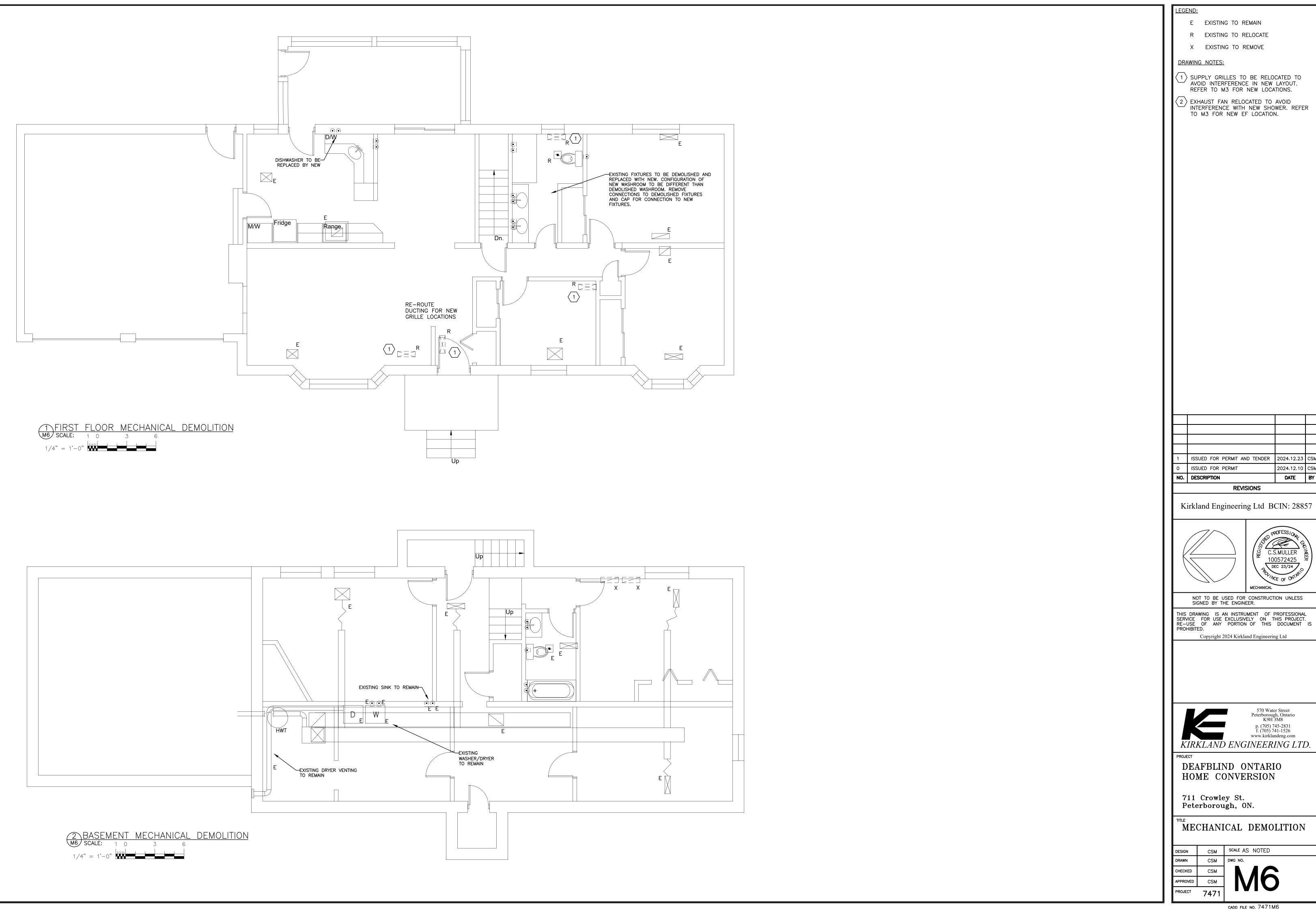
DEAFBLIND ONTARIO HOME CONVERSION

711 Crowley St. Peterborough, ON.

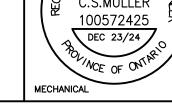
SCHEDULES

CSM | SCALE N.T.S. DESIGN DRAWN CSM DWG NO. CHECKED CSM APPROVED CSM PROJECT 7471

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2024.12.10 CSM DATE BY



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