

1 EXISTING ELECTRICAL SLD
E-100 SCALE : N.T.S.

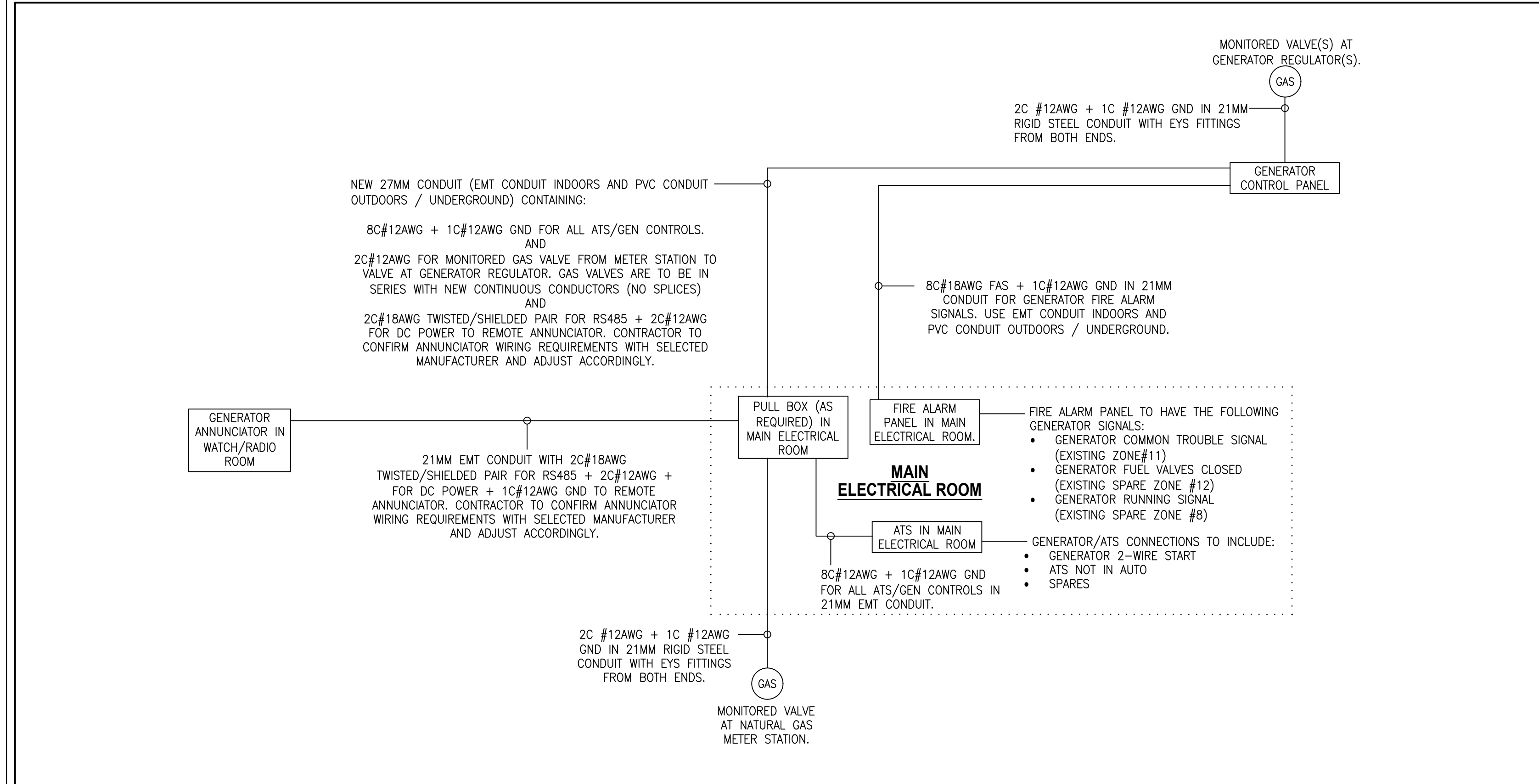
2 NEW ELECTRICAL SLD
E-100 SCALE : N.T.S.

ELECTRICAL NOTES:

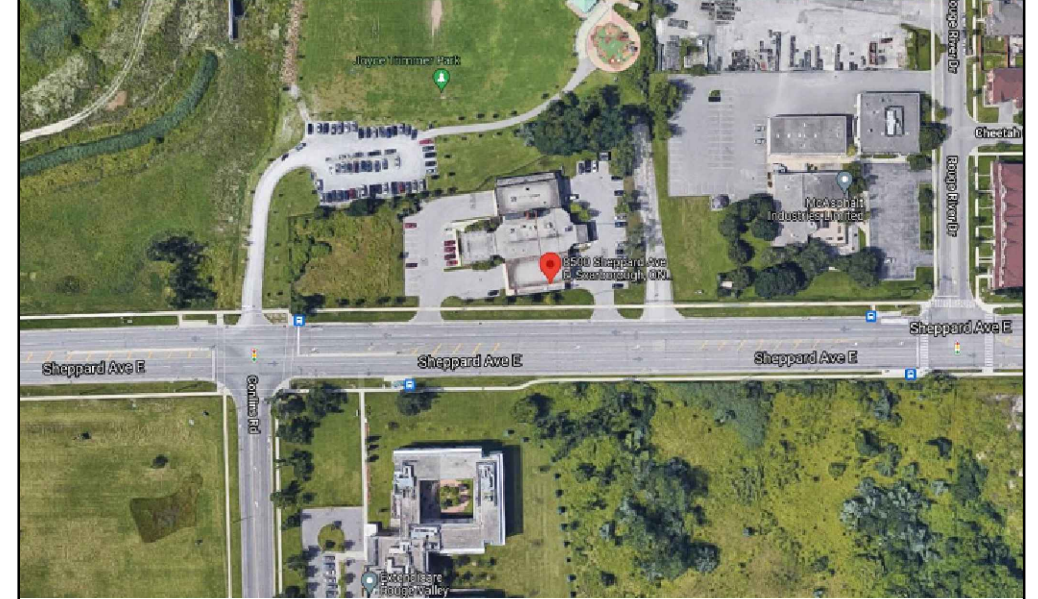
- IN GENERAL, THE WORK INCLUDES TO FURNISH AND INSTALL A NEW GENERATOR INCLUDING NEW ELECTRICAL, MECHANICAL, CIVIL/STRUCTURAL AND DEMOLITION OF EXISTING SYSTEMS, AS MORE THOROUGHLY DEFINED IN DRAWINGS AND SPECIFICATIONS.
- THIS PROJECT IS NOT A COMPLETE REPLACEMENT/UPGRADE OF THE ELECTRICAL LIFE SAFETY SYSTEMS WITHIN THE BUILDING. THE ELECTRICAL SCOPE OF WORK INCLUDES THE REPLACEMENT OF THE EMERGENCY GENERATOR, ASSOCIATED CONTROL EQUIPMENT, AND THE RECONNECTION OF THE EXISTING EMERGENCY LIFE SAFETY LOADS TO THE NEW GENERATOR AS SHOWN IN THE DRAWING PACKAGE. THE ELECTRICAL SCOPE OF WORK FOR THIS PROJECT DOES NOT EXTEND TO THE REPLACEMENT/UPGRADES OF THE INDIVIDUAL ELECTRICAL LIFE SAFETY DEVICES THROUGHOUT THE BUILDING.
 - THE DESIGN AND CONSTRUCTION OF THIS PROJECT INCLUDING ALL WORKS AND MATERIALS USED SHALL COMPLY AS REQUIRED IN ACCORDANCE WITH THE LATEST EDITION OF THE ONTARIO BUILDING CODE, ONTARIO ELECTRICAL SAFETY CODE, AND CSA STANDARD C282 "EMERGENCY ELECTRICAL POWER SUPPLY FOR BUILDINGS".
 - BUILDING TEMPORARY POWER IS NOT ANTICIPATED TO BE REQUIRED BY THE CONTRACTOR DURING THE TIME OF RECONNECTION TO THE NEW POWER DISTRIBUTION SYSTEM (CONNECTING NEW GENERATOR FEEDERS AT THE EXISTING ATS) WITH THE UNDERSTANDING THAT THE OUTAGE WOULD BE LESS THAN 4H. OUTAGE CONTRACTOR MUST PROVIDE CITY PM 10 BUSINESS DAY ADVANCE NOTICE OF ANY POWER OUTAGES SO THAT POWER OUTAGES CAN BE RESCHEDULED OR TEMPORARY POWER CAN BE ARRANGED AT AN ADDITIONAL COST IF DEEMED NECESSARY BY THE OWNER/CLIENT.
 - ALL MATERIALS AND EQUIPMENT AS HEREINAFTER SPECIFIED AND/OR SHOWN ON THE DRAWINGS SHALL BE FURNISHED AND INSTALLED IN SUCH MANNER AS TO LEAVE EACH OF THE SYSTEMS OF THE VARIOUS TRADES COMPLETE AND IN SATISFACTORY OPERATING CONDITION.
 - THE CONTRACTOR SHALL INSTALL AND HAVE THE EQUIPMENT MANUFACTURER(S) COMMISSION THE SYSTEM AS A WHOLE TO PROVIDE A COMPLETE READY TO OPERATE EMERGENCY (LIFE-SAFETY) POWER SYSTEM CAPABLE OF OPERATING UNDER ALL APPLICABLE REGULATORY/CODE REQUIREMENTS (CSA 282, MOE, ESA, TSSA, BUILDING CODE, ETC.). MAJOR EQUIPMENT FAT RESULTS SHALL BE PROVIDED TO CONSULTANT AND OWNER FOR REVIEW/APPROVAL PRIOR TO EQUIPMENT DELIVERY ON SITE.
 - THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED EQUIPMENT TO COMPLETE THE GENERATOR INSTALLATION AS FURTHER DEFINED IN THE PROJECT SPECIFICATIONS WHICH INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:
 - NEW 200KW 120/208V 3PH 4W NATURAL GAS POWERED GENERATOR C/W WEATHERPROOF SOUND RATED ENCLOSURE EQUIPPED IN ACCORDANCE WITH CSA C282;
 - NEW MONITORING AND PROTECTION SYSTEMS FOR GENERATOR OPERATION INCLUDING REMOTE GENERATOR ANNUNCIATOR IN THE FIRE HALL RADIO/WATCH ROOM;
 - CONNECTION OF THE NEW GENERATOR TO THE EXISTING FIRE ALARM PANEL (USE SPARE ZONES) C/W ALL REQUIRED PROGRAMING AND UPDATING OF LABELS ON REMOTE ANNUNCIATOR(S) FOR THE NEW CONNECTIONS AS REQUIRED;
 - CONTRACTOR TO RETAIN A MANUFACTURER AUTHORIZED SERVICE PROVIDER TO PERFORM AN INSPECTION, PREVENTATIVE MAINTENANCE INCLUDING CLEANING/LUBRICATION/ADJUSTMENTS OF THE EXISTING ASCO DOUBLE BYPASS ATS. THE AUTHORIZED SERVICE PROVIDER SHALL ALSO COMMISSION THE ATS WITH ONCE CONNECTED TO THE NEW GENERATOR SYSTEM TO ENSURE PROPER OPERATION OF THE COMPLETE SYSTEM;
 - NEW LED EMERGENCY LIGHTING UNITS IN THE NEW GENERATOR ENCLOSURE AND IN THE ELECTRICAL ROOM AROUND THE EXISTING TRANSFER SWITCH TO PROVIDE A MINIMUM LIGHTING LEVEL OF 50 LUX FOR 2 HOURS AS PER CSA 282;
 - PROVIDE AND INSTALL THREE NEW 4' LED STRIP FIXTURES THE EXISTING MAIN ELECTRICAL ROOM AND THREE NEW 4' LED STRIP FIXTURES THE EXISTING GENERATOR ROOM AS A REPLACEMENT FOR THE EXISTING LIGHTING FIXTURES WITHIN THESE ROOMS. LIGHT FIXTURES LOCATIONS & HEIGHT SHALL BE ADJUSTED TO SUIT THE NEW EQUIPMENT INSTALLATIONS / LAYOUT;
 - RELOCATE ANY EXISTING EQUIPMENT/CONDUITS WHERE NOTED AND/OR REQUIRED TO ACCOMMODATE THE NEW INSTALLATION;
 - VERIFY EXISTING ELECTRICAL EQUIPMENT INFORMATION SHOWN ON DRAWING WITH SITE CONDITION PRIOR TO START OF WORK;
 - EXISTING DISTRIBUTION SYSTEM SHOWN IS DIAGRAMMATIC TO SHOW THE DESIGN INTENT. CONTRACTOR IS BE RESPONSIBLE TO CONFIRM/VERIFY IT PRIOR TO FABRICATION OR ROUGH-IN AND ENSURE ALL EXISTING LOADS ARE RE-CONNECTED AND BALANCED BY THE NEW ELECTRICAL DISTRIBUTION SYSTEM. CONTRACTOR TO PROVIDE ALL ASSOCIATED ACCESSORIES AS REQUIRED TO FACILITATE THE NEW INSTALLATION COMPLETELY;
 - CONDUCTORS AND CONDUITS TO BE OVERSIZED TO SUIT VOLTAGE DROP AS PER OESC WHERE REQUIRED;
 - ALL FEEDER AND CONTROL CABLES FORMING PART OF THE LIFE SAFETY EMERGENCY POWER SYSTEM INSTALLED OUTSIDE OF THE FIRE RATED ELECTRICAL ROOM SHALL BE ULC S139 LISTED WITH A 2 HOUR FIRE RATING UNLESS THE CABLES ARE LOCATED OUTSIDE OF THE BUILDING ENVELOPE (ON THE ROOF / UNDERGROUND).
 - THE CONTRACTOR SHALL DISCONNECT, DEMOLISH, REMOVE AND/OR RECONNECT EXISTING EQUIPMENT WHERE NOTED AND/OR REQUIRED TO COMPLETE THE INSTALLATION. ALL EQUIPMENT/CONDUITS WHICH IS NOT BEING REUSED SHALL BE REMOVED. WHEN ELECTRICAL EQUIPMENT (LIGHTING, POWER AND SYSTEMS) IS SHOWN TO BE REMOVED OR RELOCATED, BLANK-OFF EXISTING JUNCTION BOX, CUT BACK EXISTING UNUSED CONDUIT AND WIRING, MAKE SAFE. SHOULD ANY CIRCUITS BE ABANDONED, THE CONDUCTORS TO BE REMOVED OR PROPERLY TERMINATED AS DETAILED IN OESC RULE 2-130, RULE 12-144, RULE 12-3000, AND BULLETIN 12-25--*. REMOVED ALL UNUSED ELECTRICAL EQUIPMENT AND CONSULT WITH OWNER IF EQUIPMENT IS TO BE DISPOSED OF OR TURNED BACK TO THE OWNER.
 - CONTRACTOR SHALL COORDINATE CABLE TERMINATIONS WITH EQUIPMENT MANUFACTURES TO ENSURE THE EQUIPMENT LUGS WILL ACCOMMODATE THE FEEDERS.
 - CONTRACTOR SHALL SUPPLY AND INSTALL UPDATED LAMACOID LABELS AND PANEL SCHEDULES FOR ALL EXISTING/NEW ELECTRICAL EQUIPMENT MODIFIED/INSTALLED UNDER THIS CONTRACT. CONTRACTOR SHALL UPDATE AND SUPPLY LAMINATED AS-BUILT ELECTRICAL SLD AND MOUNT IN THE FIRE HALL ELECTRICAL ROOM.
 - CONTRACTOR TO PROVIDE POWER AND CONTROLS AS REQUIRED BY MECHANICAL TRADE AND RELOCATE ANY EXISTING POWER / CONTROLS AS REQUIRED BY THE MECHANICAL TRADE.
 - CONTRACTOR SHALL PROVIDE PROJECT AS-BUILT DOCUMENTATION ACCORDING TO CITY REQUIREMENTS.

GROUNDING NOTES:

- ALL GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH THE LATEST OESC EDITION AND ALL LOCAL ELECTRICAL INSPECTION AUTHORITY REQUIREMENTS.
- ALL INSTALLED EQUIPMENT INCLUDING ANY INSTALLED BOLLARDS OR METAL FENCING AROUND THE GENERATOR SHALL BE GROUNDED/BONDED BY THE CONTRACTOR IN ACCORDANCE WITH OESC LATEST EDITION AS MAY BE REQUIRED. FOR FENCE GROUNDING/BONDING REFER TO OESC SECTION 10 AND OESC 26-300 THRU 26-324.
- IF REQUIRED, THE CONTRACTOR SHALL UPGRADE THE EXISTING GROUNDING SYSTEM AND INSTALL ARTIFICIAL GROUNDING ELECTRODES AS REQUIRED TO MEET THE REQUIREMENTS OF THE OESC LATEST EDITION.



3 NEW GENERATOR CONTROLS
E-100 SCALE : N.T.S.



KEY PLAN:
N.T.S.

GENERAL NOTES

- VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
- DO NOT SCALE DRAWINGS.
- REPORT ALL DISCOVERIES OF ERRORS, OMISSIONS OR DISCREPANCIES TO THE DESIGN ENGINEER AS APPLICABLE.
- USE ONLY LATEST REVISED DRAWINGS OR THOSE THAT ARE MARKED "ISSUED FOR CONSTRUCTION".
- CONTRACTOR IS RESPONSIBLE TO VERIFY SHORT CIRCUIT RATING BEFORE PURCHASE OF POWER EQUIPMENT.
- THE DESIGN AND CONSTRUCTION OF THIS PROJECT INCLUDING ALL WORKS AND MATERIALS USED SHALL COMPLY AS REQUIRED IN ACCORDANCE WITH THE LATEST EDITION OF THE BUILDING AND ELECTRICAL CODES.
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS & SPECIFICATIONS.
- THE CONTRACTOR SHALL APPLY FOR, OBTAIN AND PAY FOR ALL PERMITS, LICENCES, INSPECTIONS, EXAMINATIONS AND FEES REQUIRED.
- THE CONTRACTOR SHALL PROVIDE ALL LABOUR, MATERIAL AND EQUIPMENT (UNLESS OTHERWISE INDICATED) NECESSARY TO COMPLETE ALL ELECTRICAL WORK AS SHOWN.
- CABLE/CONDUIT ROUTING AND TERMINATIONS ARE DIAGRAMMATIC, SHOWING THE APPROXIMATE ARRANGEMENT. ACTUAL CABLE/CONDUIT POSITIONS SHALL BE DETERMINED TO SUIT FIELD CONDITIONS AND EQUIPMENT LOCATIONS.
- THE ELECTRICAL CONTRACTOR TO VERIFY IN FIELD EXISTING UNDERGROUND SERVICES BEFORE EXCAVATING AND REPAIR ANY DAMAGES DURING CONSTRUCTION AT NO COST TO OWNER.
- CONTRACTOR TO REMOVE AND RELOCATE EXISTING ELECTRICAL SERVICES AS REQUIRED TO COMPLETE THE ELECTRICAL WORK.
- CONTRACTOR SHALL SIZE ALL FEEDERS ACCORDING TO THE LATEST EDITION OF THE OESC CODE BASED ON FINAL FEEDER LENGTHS AND VOLTAGE DROP.
- ALL UNDERGROUND CONDUITS TO BE BURIED MIN. 600MM BELOW FINISHED GRADE IN NON TRAFFIC AREAS AND MIN. 900MM BELOW FINISHED GRADE IN TRAFFIC AREAS. CONTRACTOR TO INSTALL WARNING TAPE AND REFER TO CEC FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR TO COORDINATE ALL ACTIVITIES AND POWER DISRUPTIONS WITH OWNER TO AVOID DISRUPTIONS TO TENANTS.
- EXISTING CONDITIONS ARE BASED ON OBSERVATIONS OF VISIBLE PARTS OF THE ELECTRICAL SYSTEM AND ON EXISTING DOCUMENTS. CONDITIONS SHOWN MAY NOT BE ACCURATE WITH RESPECT TO CIRCUIT USAGE, UNDOCUMENTED MODIFICATIONS MADE AFTER THE DATE OF THE EXISTING DRAWINGS OR CONCEALED CONDITIONS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND ADAPT WORK TO SUIT.

No.	Date	Description	Drawn	Checked
3	JULY 05 '23	ISSUED FOR TENDER	AM	JK
2	JUNE 30 '23	ISSUED FOR BP	AM	JK
1	MAR 12 '23	ISSUED FOR 100% REVIEW	AM	JK
0	JAN 09 '23	ISSUED FOR 75% REVIEW	AM	JK

J+B
J + B ENGINEERING INC.

TORONTO: 25 CENTURIAN DR. SUITE 201 MARKHAM, ON L3R 9N8 416.226.2038
CALGARY: 707-10TH AVE. SW. SUITE 150 CALGARY AB T2R 0B3 403.526.2036

OWNER/CLIENT:

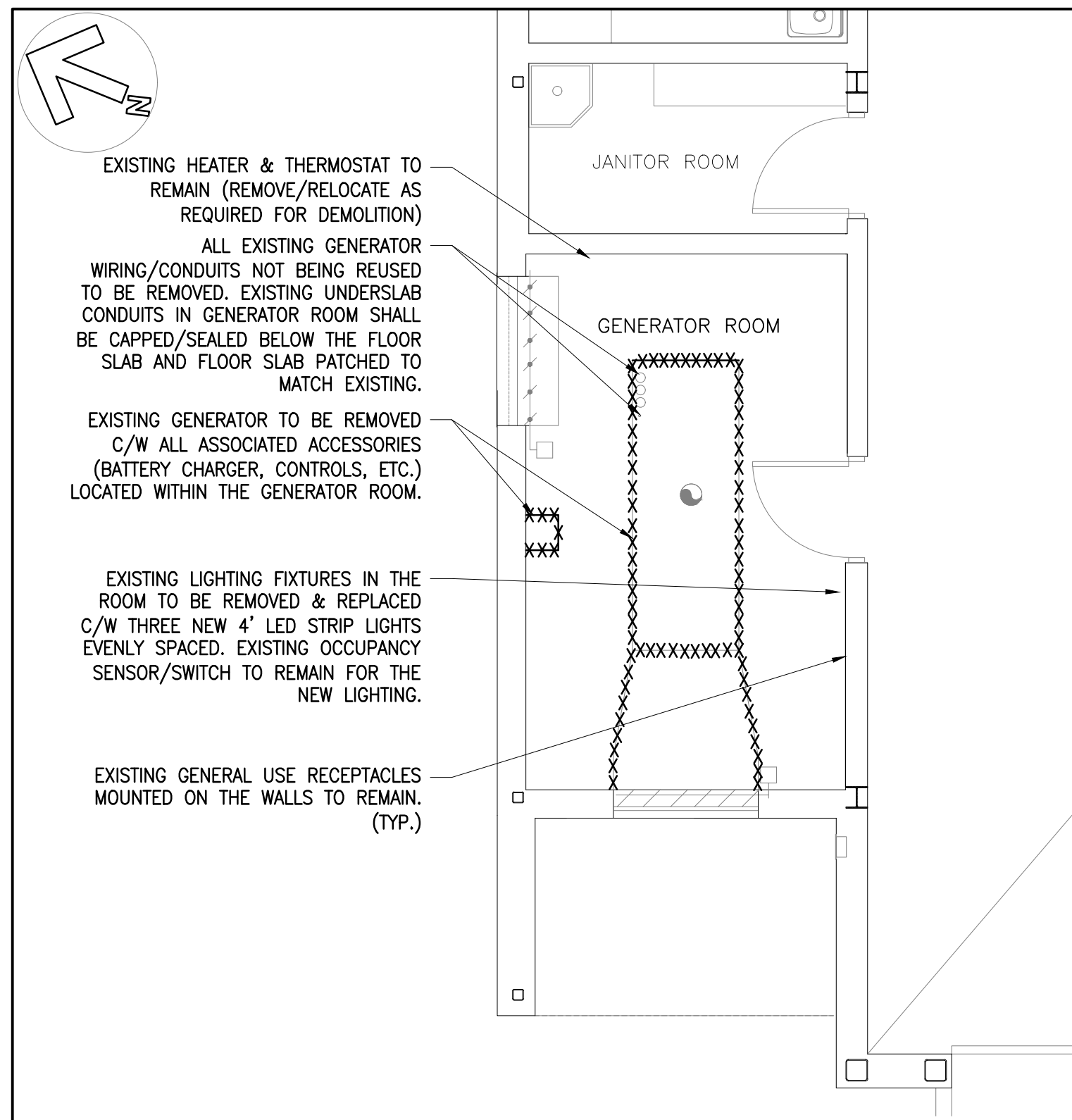
Toronto

Project: EMERGENCY GENERATOR REPLACEMENT/UPGRADE

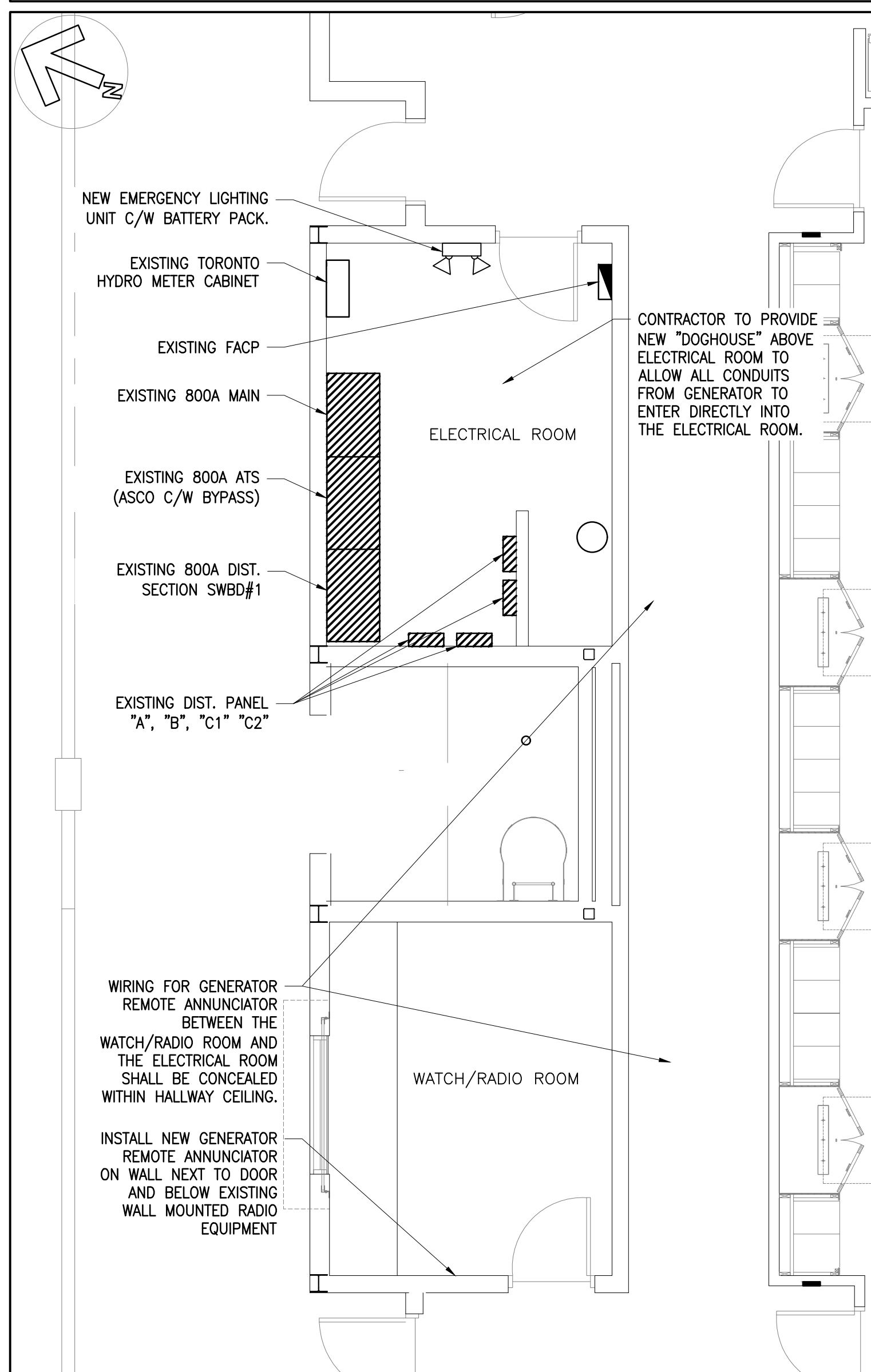
ELECTRICAL SLD AND PUMP/CABLE ROOM LAYOUT

8500 SHEPPARD AVE. E. TORONTO, ON

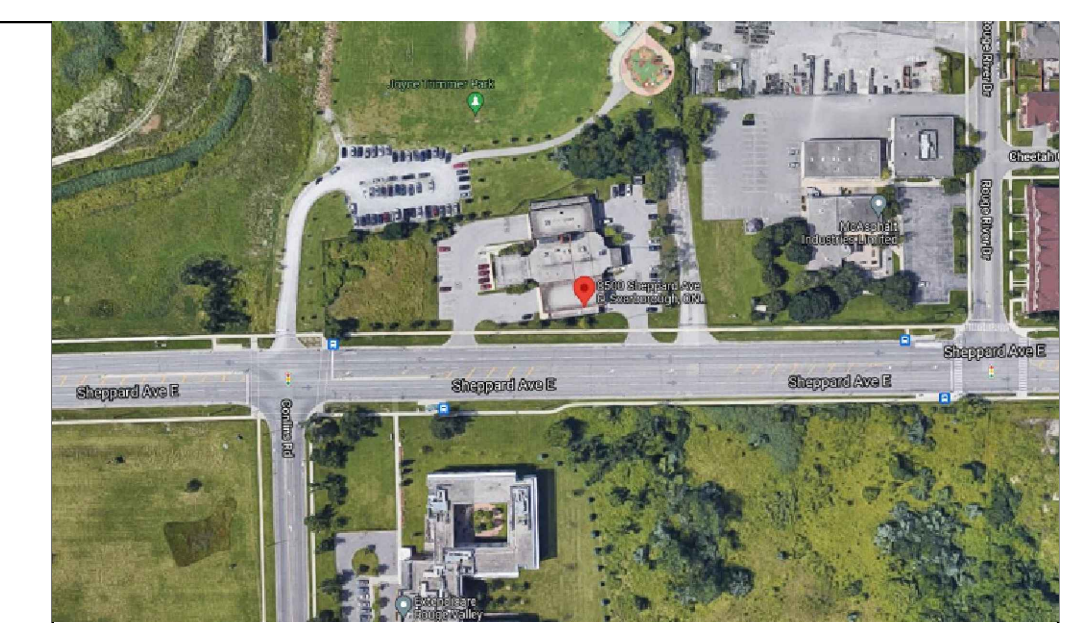
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Drawn By: AM	Scale: AS SHOWN	Dwg. File: 210240-E-100
Checked By: AM	Sheet 1 of 1	Plotting Scale: 1=1
Drawing No: E-100		Drawing Size: D



1 GENERATOR ROOM
E-101 SCALE : 1:50



2 ELECTRICAL ROOM & WATCH/RADIO ROOM
E-101 SCALE : 1:50



KEY PLAN:
N.T.S.

GENERAL NOTES

1. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
2. DO NOT SCALE DRAWINGS.
3. REPORT ALL DISCOVERIES OF ERRORS, OMISSIONS OR DISCREPANCIES TO THE DESIGN ENGINEER AS APPLICABLE.
4. USE ONLY LATEST REVISED DRAWINGS OR THOSE THAT ARE MARKED "ISSUED FOR CONSTRUCTION".
5. CONTRACTOR IS RESPONSIBLE TO VERIFY SHORT CIRCUIT RATING BEFORE PURCHASE OF POWER EQUIPMENT.
6. THE DESIGN AND CONSTRUCTION OF THIS PROJECT INCLUDING ALL WORKS AND MATERIALS USED SHALL COMPLY AS REQUIRED IN ACCORDANCE WITH THE LATEST EDITION OF THE BUILDING AND ELECTRICAL CODES.
7. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS & SPECIFICATIONS.
8. THE CONTRACTOR SHALL APPLY FOR, OBTAIN AND PAY FOR ALL PERMITS, LICENCES, INSPECTIONS, EXAMINATIONS AND FEES REQUIRED.
9. THE CONTRACTOR SHALL PROVIDE ALL LABOUR, MATERIAL AND EQUIPMENT (UNLESS OTHERWISE INDICATED) NECESSARY TO COMPLETE ALL ELECTRICAL WORK AS SHOWN.
10. CABLE/CONDUIT ROUTING AND TERMINATIONS ARE DIAGRAMMATIC, SHOWING THE APPROXIMATE ARRANGEMENT. ACTUAL CABLE/CONDUIT POSITIONS SHALL BE DETERMINED TO SUIT FIELD CONDITIONS AND EQUIPMENT LOCATIONS.
11. THE ELECTRICAL CONTRACTOR TO VERIFY IN FIELD EXISTING UNDERGROUND SERVICES BEFORE EXCAVATING AND REPAIR ANY DAMAGES DURING CONSTRUCTION AT NO COST TO OWNER.
12. CONTRACTOR TO REMOVE AND RELOCATE EXISTING ELECTRICAL SERVICES AS REQUIRED TO COMPLETE THE ELECTRICAL WORK.
13. CONTRACTOR SHALL SIZE ALL FEEDERS ACCORDING TO THE LATEST EDITION OF THE OESC CODE BASED ON FINAL FEEDER LENGTHS AND VOLTAGE DROP.
14. ALL UNDERGROUND CONDUITS TO BE BURIED MIN. 600MM BELOW FINISHED GRADE IN NON TRAFFIC AREAS AND MIN. 900MM BELOW FINISHED GRADE IN TRAFFIC AREAS. CONTRACTOR TO INSTALL WARNING TAPE AND REFER TO CEC FOR ADDITIONAL REQUIREMENTS.
15. CONTRACTOR TO COORDINATE ALL ACTIVITIES AND POWER DISRUPTIONS WITH OWNER TO AVOID DISRUPTIONS TO TENANTS.
16. EXISTING CONDITIONS ARE BASED ON OBSERVATIONS OF VISIBLE PARTS OF THE ELECTRICAL SYSTEM AND ON EXISTING DOCUMENTS. CONDITIONS SHOWN MAY NOT BE ACCURATE WITH RESPECT TO CIRCUIT USAGE, UNDOCUMENTED MODIFICATIONS MADE AFTER THE DATE OF THE EXISTING DRAWINGS OR CONCEALED CONDITIONS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND ADAPT WORK TO SUIT.

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0	JAN 09 '23	ISSUED FOR 75% REVIEW	AM	JK

REVISIONS

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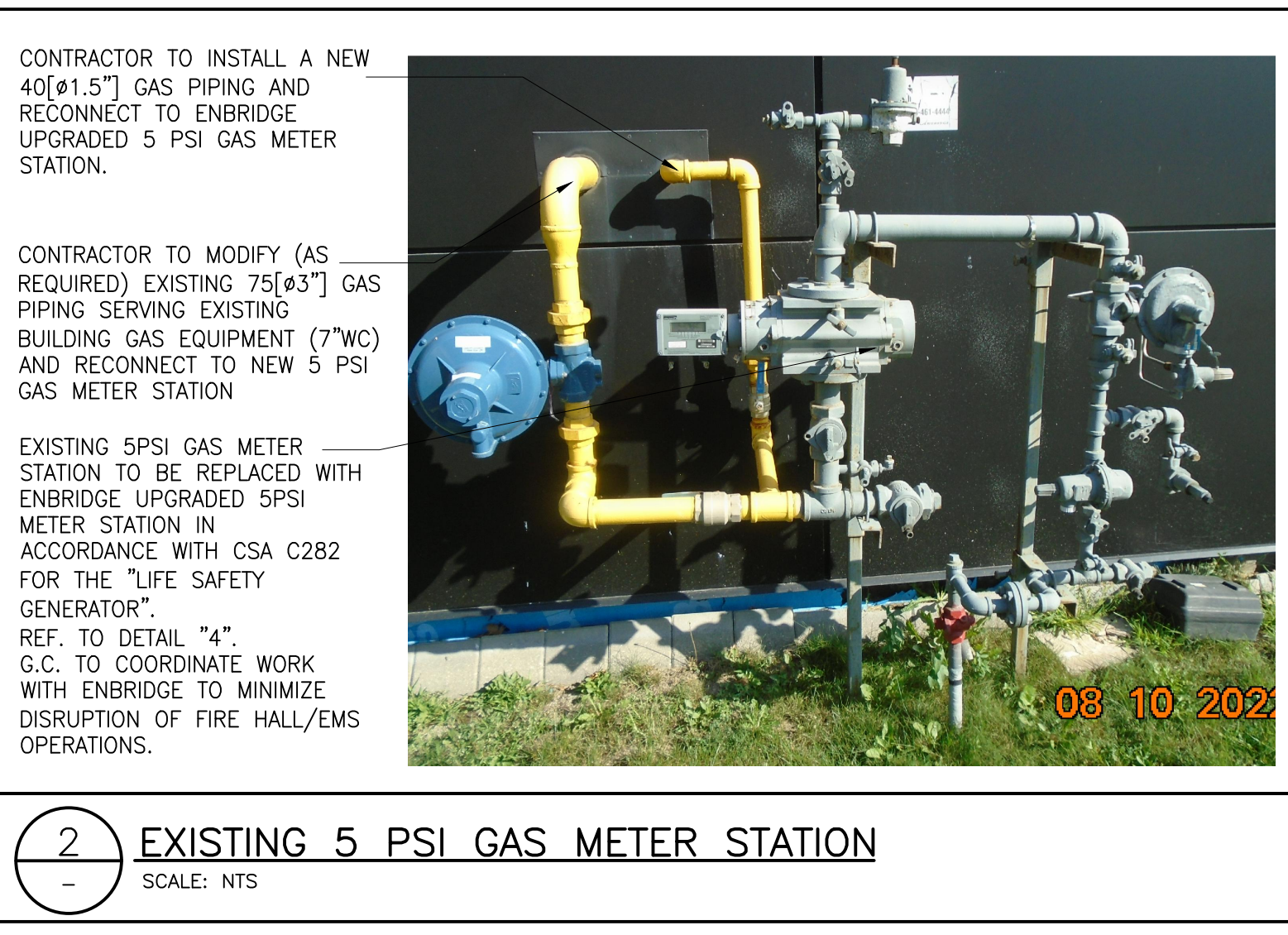
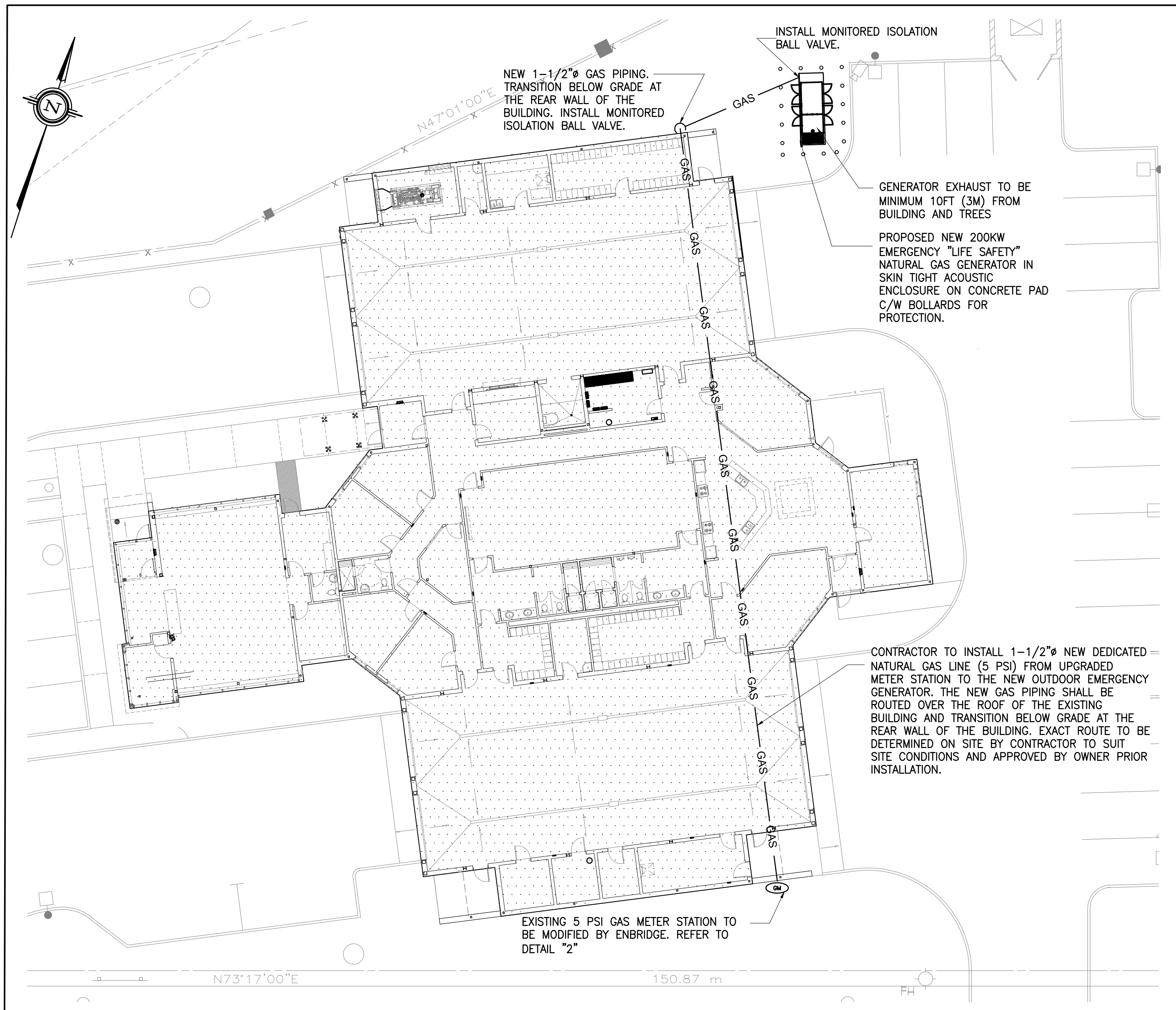
TORONTO: 25 CENTURIAN DR. SUITE 101 MARKHAM, ON L3R 9N8 416 225 2336
CALGARY: 707-10TH AVE. SW SUITE 150 CALGARY AB T2R 0B3 403 335 2336

OWNER/CLIENT:

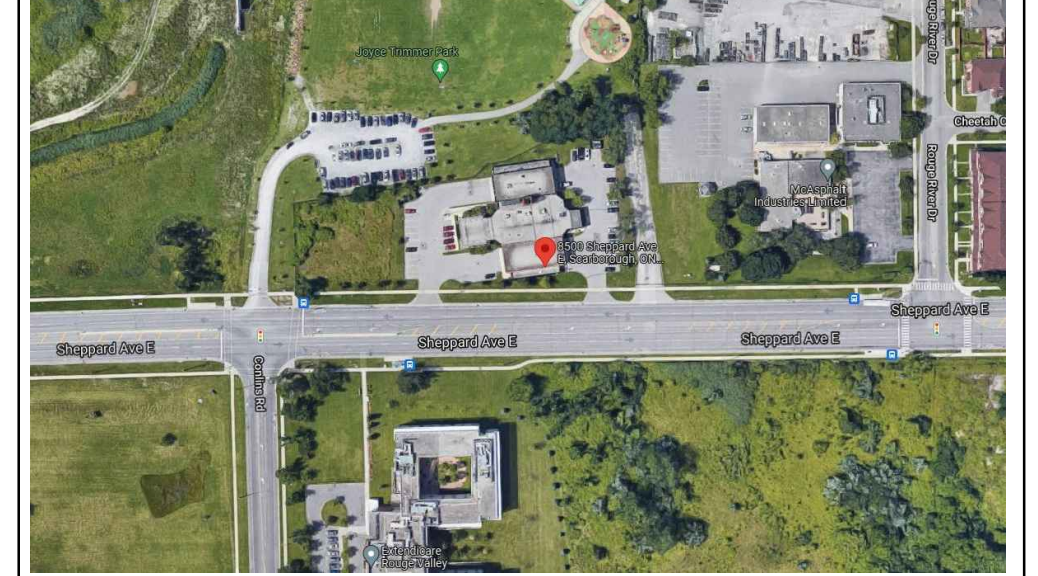
Toronto

Project: EMERGENCY GENERATOR REPLACEMENT/UPGRADE
GEN. RM LAYOUT, COMM./CONTROL, & ELECTRICAL DEMOLITION
8500 SHEPPARD AVE. E. TORONTO, ON

File No: 210240	Date: 28 OCT '21	ACAD INFO
Drawn By: AM	Scale: AS SHOWN	Dwg. File: 210240-E-101
Checked By: AM	Sheet 1 of 1	Plotting Scale: 1=1
Drawing No: E-101		Drawing Size: D



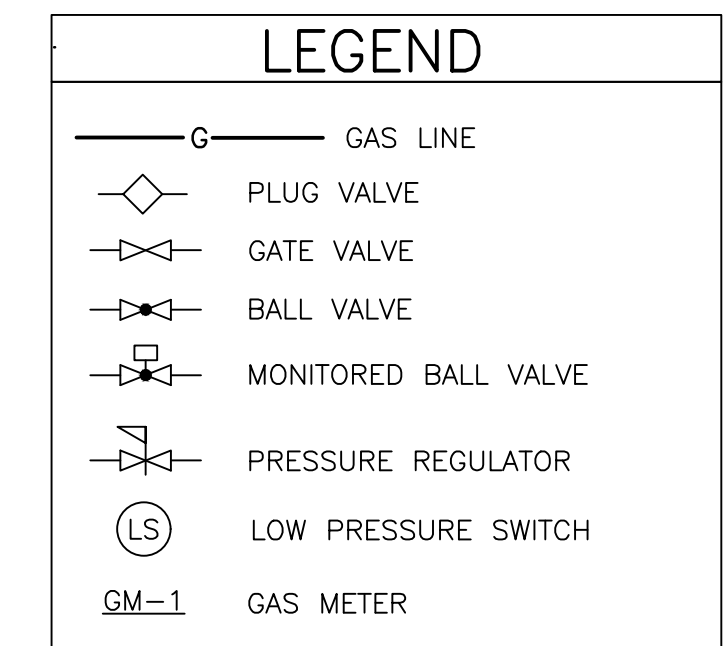
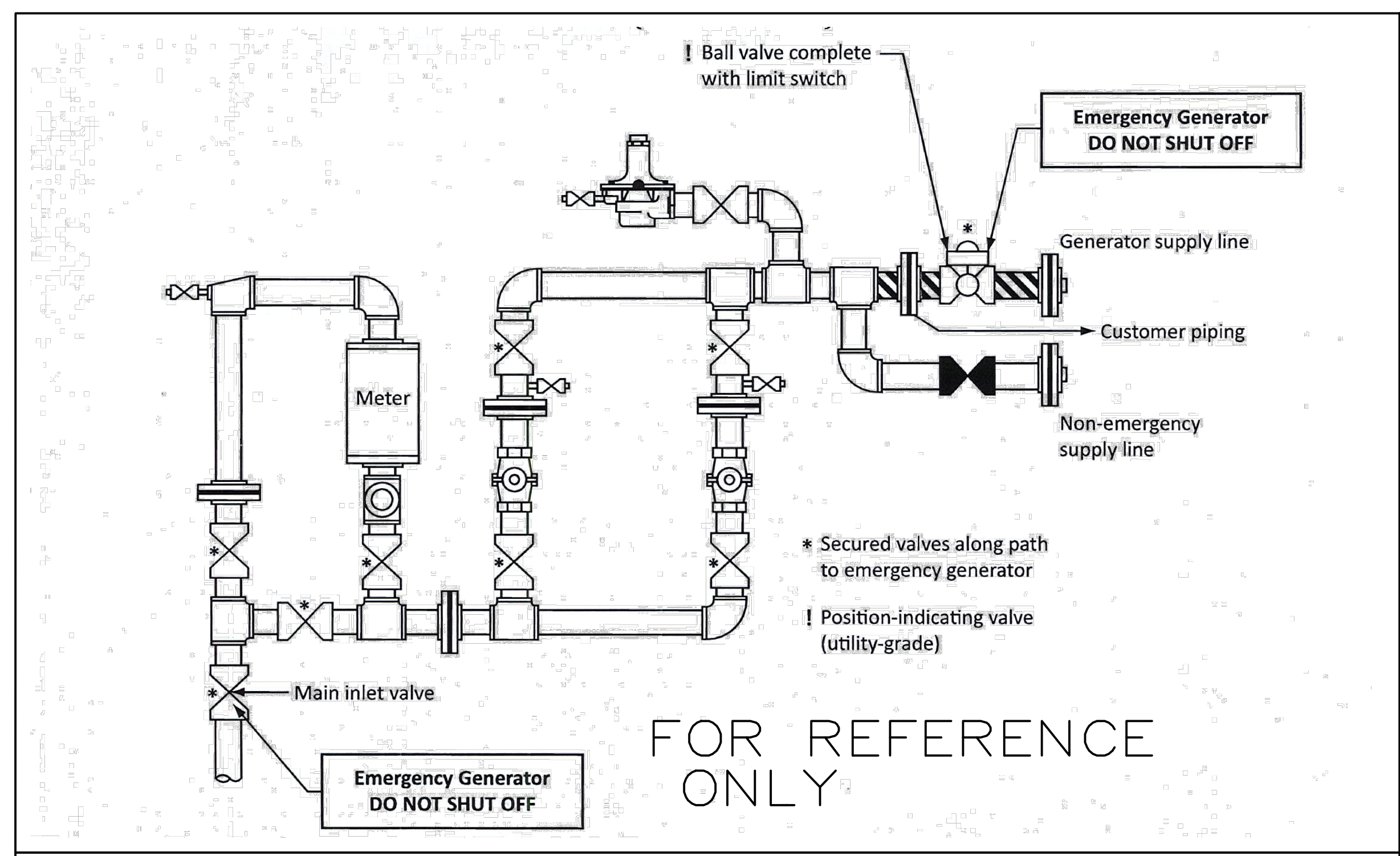
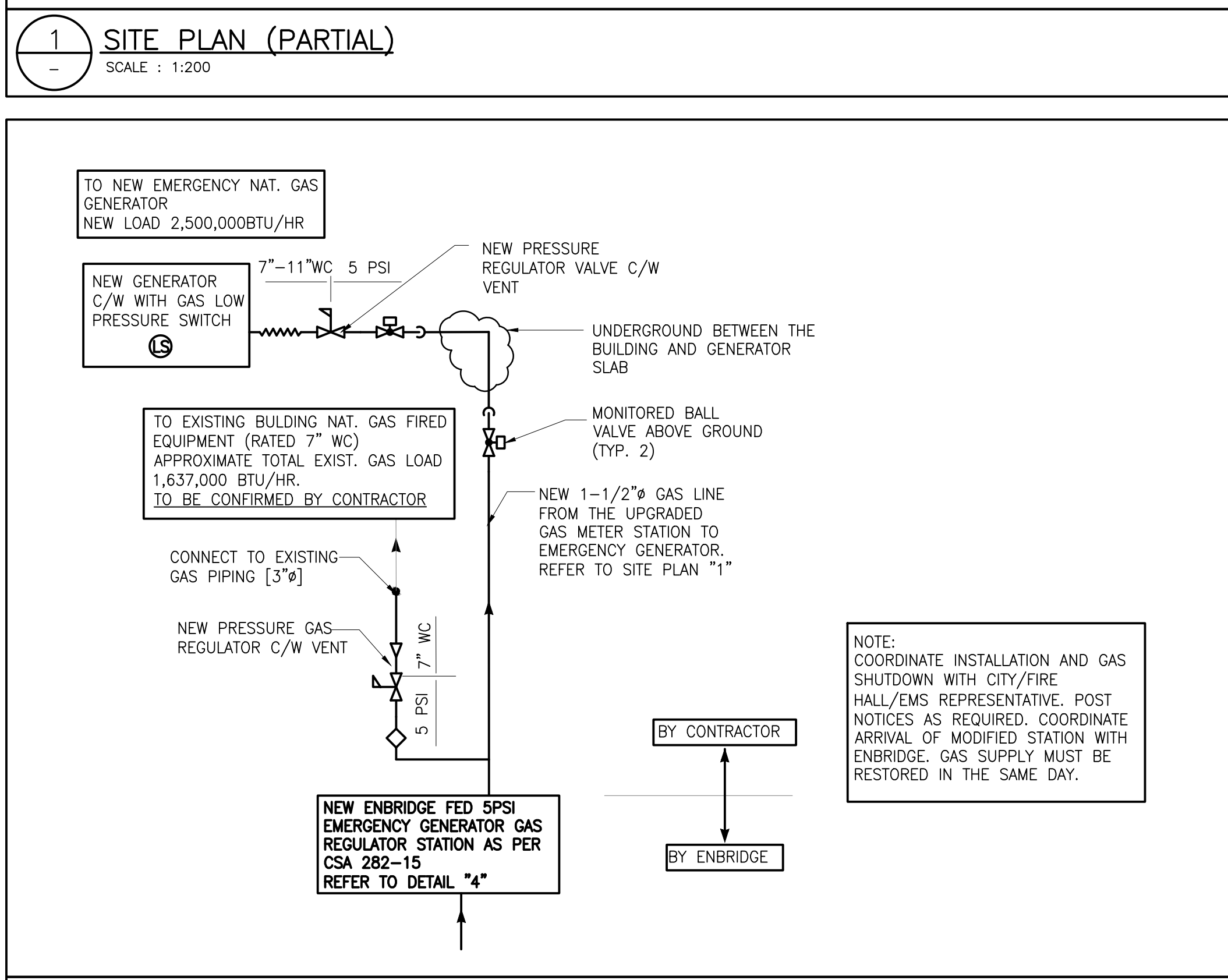
- GAS PIPING NOTES:**
- CONTRACTOR TO PAY AND CO-ORDINATE WITH ENBRIDGE REPLACEMENT/UPGRADE OF THE EXISTING 5PSI METER STATION WITH NEW 5PSI GAS METER STATION IN ACCORDANCE WITH CSA C282-REF. TO DETAIL IN THIS DRAWING. PROTECTIVE BOLLARDS TO BE INSTALLED AS REQUIRED TO PROTECT METER STATION FROM VEHICLE DAMAGE. REFER TO P-200 FOR BOLLARDS DETAILS.
 - CONTRACTOR TO CO-ORDINATE WITH ENBRIDGE THE TERMINATION POINTS OF THE NEW GAS LINE AND EXISTING GAS LINE AT THE NEW/UPGRADED 5 PSI GAS METER STATION. CHECK WITH ENBRIDGE REGARDING THE INSTALLATION OF PIPING METHOD OF CORROSION PROTECTION (IF REQUIRED). SUPPORT PIPE FROM BUILDING STRUCTURE.
 - INSTALL NEW GAS LINE FOR GENERATOR FROM ENBRIDGE UPGRADED GAS STATION AS SHOWN ON THE PLAN. THE GAS FUEL CONSUMPTION AT 100% LOAD IS SITE SPECIFIC. VERIFY THIS WITH SHOP DRAWINGS.
 - CO-ORDINATE WITH THE GENERATOR MANUFACTURER THE EXACT ENTRY POINT ON THE GENERATOR OF THE NATURAL GAS LINE.
 - THE FINAL ROUTE OF NEW GAS LINE FROM UPGRADED GAS METER TO THE NEW GENERATOR TO BE DETERMINED AND VERIFIED BY THE CONTRACTOR.
 - CONTRACTOR TO COORDINATE WITH GENERAL CONTRACTOR FOR EXCAVATION, BACKFILLING AND COMPACTION FOR INSTALLATION OF BURIED GAS LINE (AS REQUIRED/SITE SPECIFIC). GENERAL CONTRACTOR IS RESPONSIBLE TO PERFORM EXCAVATION, BACKFILLING AND COMPACTION. GENERAL CONTRACTOR TO COORDINATE ANY TRENCHING AND INSTALLATION WITH CITY REPRESENTATIVE TO MINIMIZE DISRUPTION TO FACILITY OPERATION.
 - GAS SYSTEM SHALL COMPLY WITH THE LATEST EDITION OF CSA B149.1&2 THE ONTARIO GAS UTILIZATION CODE, THE ONTARIO ENERGY ACT AND LOCAL BY-LAWS AND AUTHORITIES HAVING JURISDICTION.
 - USE WELDERS QUALIFIED AND LICENSED BY PROVINCIAL AUTHORITIES. FURNISH WELDER'S QUALIFICATIONS UPON REQUEST.
 - ALL EQUIPMENT AND MATERIALS TO BE C.G.A. OR C.S.A. CERTIFIED.
 - GAS PIPING ABOVE GROUND SHALL BE SCHEDULE 40 STEEL PIPE, BURIED GAS PIPES SHALL BE YELLOW JACKET STEEL PIPE OR PLASTIC PIPE.
 - FITTINGS SHALL BE 150 PSI BLACK MALLEABLE IRON. USE SCREWED FITTING FOR PIPE UP TO 2" DIAMETER WHERE ACCEPTABLE AND STEEL WELDED FITTINGS FOR PIPE OVER 50mm DIAMETER.
 - USE C.S.A AND C.G.A. APPROVED BALL AND LUBRICATED PLUG VALVES WITH LEVER HANDLES.
 - TEST ALL GAS PIPING AS REQUIRED BY GAS CODE. SYSTEM SHALL RETAINED THE TEST PRESSURE FOR THE MIN. DURATION OF 1 HOUR WITHOUT LOSS OF PRESSURE.
 - JOINTS SHALL BE CHECKED WITH SOAP AND WATER SOLUTION DURING AIR TEST TO ASCERTAIN ANY LEAKS.
 - ALL BURIED PIPING SHALL BE TESTED BEFORE BACKFILLING.
 - ALL GAS PIPING, INCLUDING PIPING IN CONCEALED SPACES SHALL BE PAINTED "YELLOW" AS PER DEPARTMENT OF ENERGY AND RESOURCES REQUIREMENTS.
 - PIPE ALL RELIEF VALVES AND GAS VENTS TO THE EXTERIOR OF THE BUILDING AS DETAILED ON THE DRAWINGS OR AS SPECIFIED.
 - MINIMUM GAS PIPE SIZE SHALL BE IN COMPLIANCE WITH GAS UTILIZATION CODE.



- GENERAL NOTES**
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 - THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS & SPECIFICATIONS.
 - REPORT ALL DISCOVERIES OF ERRORS, OMISSIONS OR DISCREPANCIES TO THE DESIGN ENGINEER AS APPLICABLE.
 - USE ONLY LATEST REVISED DRAWINGS OR THOSE THAT ARE MARKED "ISSUED FOR CONSTRUCTION".
 - DESIGN AND CONSTRUCTION OF THIS PROJECT SHALL COMPLY WITH THE ONTARIO BUILDING CODE, GAS CODE, CSA, ULC, TSSA AND ANY OTHER AUTHORITIES HAVING JURISDICTION.
 - ALL EQUIPMENT, ETC. TO BE REUSED SHALL BE CAREFULLY REMOVED AND STORED. ANY PIECE OF EQUIPMENT OR FITTING ACCESSORY, ETC., WHICH FORMS A PART OF THE EQUIPMENT TO BE REUSED WHICH IS LOST OR DAMAGED SHALL BE REPLACED BY THE CONTRACTOR AT HIS OWN COST.
 - PROVIDE SPACE FOR SERVICE AND ACCESSIBILITY TO ALL NEW EQUIPMENTS UNIT AS PER MANUFACTURER'S REQUIREMENTS AND INSTRUCTIONS.
 - DO NOT INTERRUPT SERVICES TO OR WITHIN BUILDINGS WITHOUT PRIOR TO CONSULTATION WITH THE CITY AND THE FIRE STATION CAPTAIN.
 - ALL WELDING SHALL BE IN ACCORDANCE WITH CWB AND AUTHORITIES HAVING JURISDICTION.
 - CONTRACTOR TO COORDINATE ALL UNIT CONTROL REQUIREMENT WITH MANUFACTURER OF THE UNIT TO ENSURE CO-ORDINATION OF CONTROLS AND UNITS.

NOTE A

THE DRAWING WAS PREPARED BASED ON CITY OF TORONTO MAPS V2 DATA AND CLIENT PROVIDED RECORD DRAWINGS. CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR STARTING CONSTRUCTION.



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REVISIONS

J + B ENGINEERING INC.

TORONTO: 25 CENTURIAN DR. SUITE 101 MARKHAM, ON L3R 9S8 416 295 9358

CALGARY: 707-10TH AVE. SW SUITE 150 CALGARY AB T2R 0B3 403 505 2285

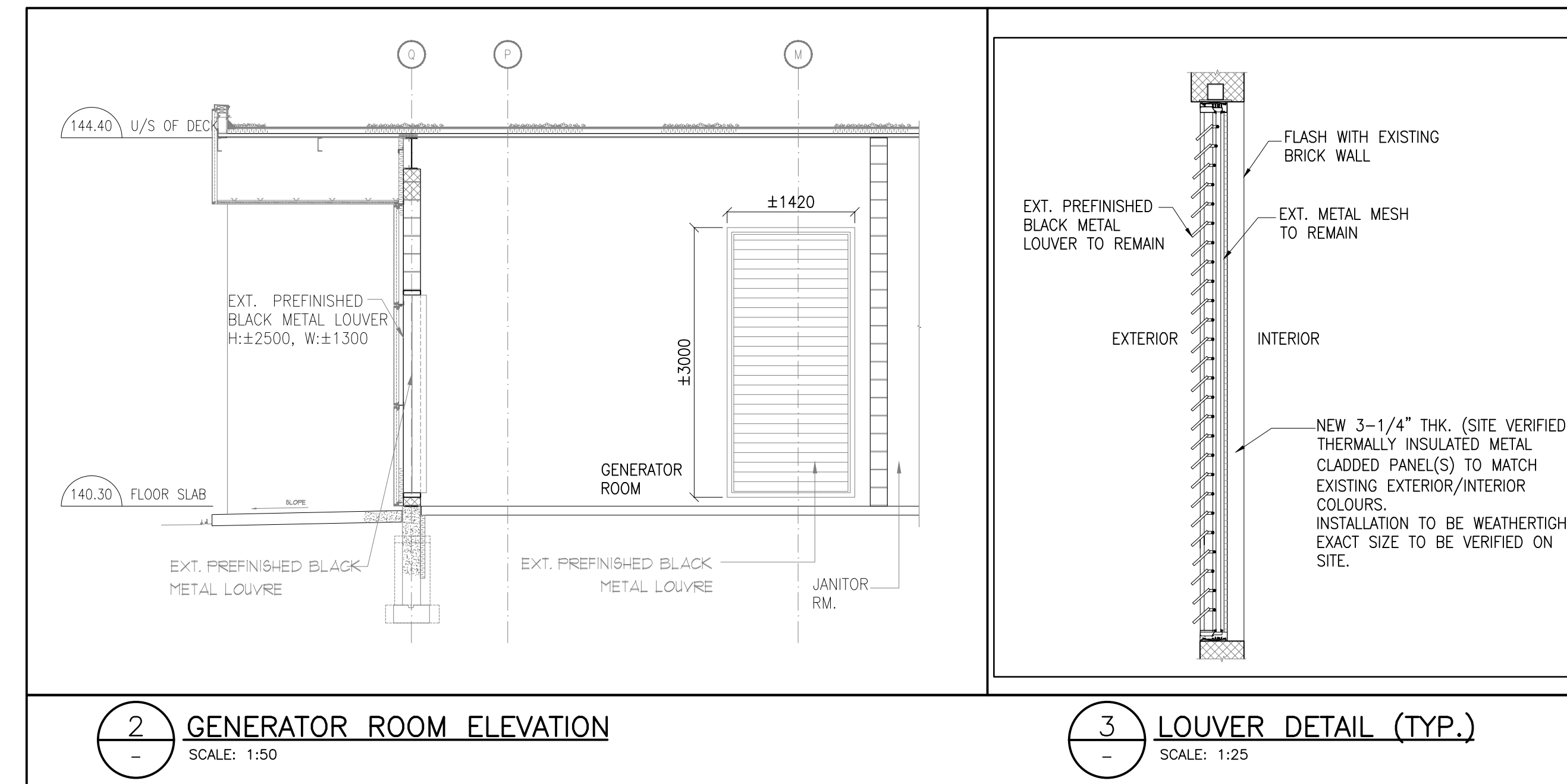
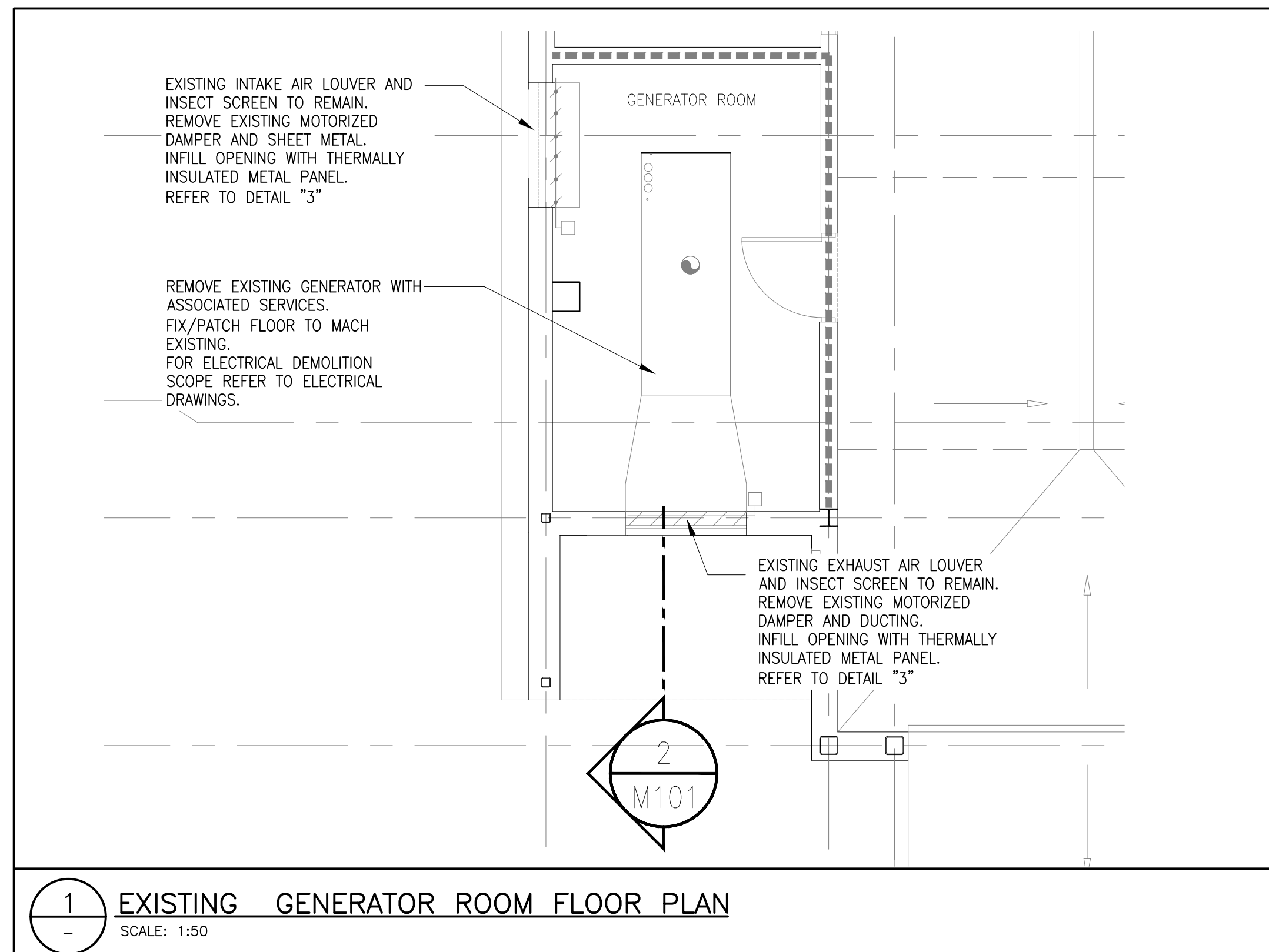
OWNER/CLIENT:

Project: EMERGENCY GENERATOR REPLACEMENT/UPGRADE

SITE PLAN
NATURAL GAS GENERATOR

8500 SHEPPARD AVE. E. TORONTO, ON

File No: 210240	Date: 28 OCT '21	ACAD INFO
Drawn By: JK	Scale: AS SHOWN	Dwg. File: 210240-M-100
Checked By: JK	Sheet 1 of 1	Plotting Scale: 1=1
Drawing No: M-100		Drawing Size: D



NOTES:

- REMOVE AND DISPOSE EXISTING GENERATOR WITH ALL ASSOCIATED SERVICES, INCLUDING EXHAUST AIR DUCTING SYSTEM. FIX/PATCH THE FLOOR TO MAKE EXISTING. CONFIRM WITH CITY THE DISPOSED EQUIPMENT PRIOR TO ITS REMOVAL. (1)(2)(6)
- DISCONNECT SILENCER AND FLEX PIPE FROM GENERATOR AND REMOVE/DISPOSE ENTIRE GENERATOR FLUE VENT LINE. EXISTING ROOF OPENING TO BE "WEATERTIGHT" CAPPED. (1)(2)(6)(3)
- REMOVE AND DISPOSE GAS PIPING ASSOCIATED WITH EXISTING GENERATOR FROM THE GENERATOR ROOM. MAKE GOOD WALL/CEILING TO MATCH EXISTING AT PIPE REMOVAL. (1)(2)(3)
- REMOVE AND DISPOSE EXISTING INTAKE AND EXHAUST AIR DAMPERS C/W WIRING POWER AND CONTROLS. INFILL OPENINGS WITH THERMALLY INSULATED METAL CLADDED PANEL(S). REFER TO DETAILS ON THIS DRAWING. (1)(2)(3)(4)
- EXISTING INFRA-RED SPACE HEATING SYSTEM TO REMAIN IN OPERATION. IT INCLUDES POWER, CONTROLS AND SEPARATE 7"WC GAS. (5)
- REMOVE AND DISPOSE ALL DUCTWORK ASSOCIATED WITH EXISTING GENERATOR. (1)(6)
- DISCONNECT AND REMOVE EXISTING NATURAL GAS PIPING SYSTEM (C/W ASSOCIATED VALVES, PRESSURE REGULATOR AND SUPPORTS) SERVING THE EXISTING NATURAL GAS GENERATOR WITH EXCEPTION OF GAS PIPING LOCATED INSIDE THE EMS AND FIRE HALL GARAGE BAYS. (8)(9)(10)(11)(12)(13)
- EXISTING GAS PIPING INSIDE THE GARAGE BAY TO REMAIN. (14)
- EXISTING PIPING TO BE CUT AND CAPPED (OUTDOOR) AT THE WALLS PENETRATION OPENINGS. (8)(9)(10)(11)(12)
- EXISTING WALL/ROOF OPENINGS TO BE "WEATERTIGHT" CAPPED. (8)(9)(10)(11)(12)(13)

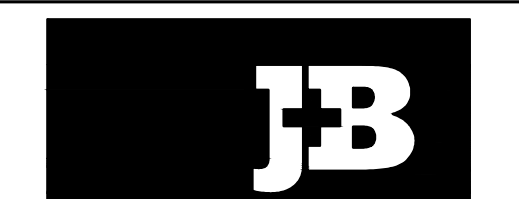


GENERAL NOTES

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- ALL DIMENSIONS AND ELEVATIONS ARE METRIC, UNLESS NOTED OTHERWISE.
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS & SPECIFICATIONS.
- REPORT ALL DISCOVERIES OF ERRORS, OMISSIONS OR DISCREPANCIES TO THE DESIGN ENGINEER AS APPLICABLE.
- USE ONLY LATEST REVISED DRAWINGS OR THOSE THAT ARE MARKED "ISSUED FOR CONSTRUCTION".
- DESIGN AND CONSTRUCTION OF THIS PROJECT SHALL COMPLY WITH THE ONTARIO BUILDING CODE, GAS CODE, CSA, ULC, TSSA AND ANY OTHER AUTHORITIES HAVING JURISDICTION.
- ALL EQUIPMENT, ETC. TO BE REUSED SHALL BE CAREFULLY REMOVED AND STORED. ANY PIECE OF EQUIPMENT OR FITTING ACCESSORY, ETC., WHICH FORMS A PART OF THE EQUIPMENT TO BE REUSED WHICH IS LOST OR DAMAGED SHALL BE REPLACED BY THE CONTRACTOR AT HIS OWN COST.
- PROVIDE SPACE FOR SERVICE AND ACCESSIBILITY TO ALL NEW EQUIPMENTS UNIT AS PER MANUFACTURER'S REQUIREMENTS AND INSTRUCTIONS.
- DO NOT INTERRUPT SERVICES TO OR WITHIN BUILDINGS WITHOUT PRIOR TO CONSULTATION WITH THE CITY AND THE FIRE STATION CAPTAIN.
- ALL WELDING SHALL BE IN ACCORDANCE WITH CWB AND AUTHORITIES HAVING JURISDICTION.
- CONTRACTOR TO COORDINATE ALL UNIT CONTROL REQUIREMENT WITH MANUFACTURER OF THE UNIT TO ENSURE CO-ORDINATION OF CONTROLS AND UNITS.

No.	Date	Description	Drawn	Checked
3	JULY 05 '23	ISSUED FOR TENDER	JK	JK/HF
2	JUNE 30 '23	ISSUED FOR BP	JK	JK/HF
1	MAR 12 '23	ISSUED FOR 100% REVIEW	JK	JK
0	JAN 09 '23	ISSUED FOR 75% REVIEW	EM	JK

REVISIONS



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OWNER/CLIENT:
Toronto

Project: EMERGENCY GENERATOR REPLACEMENT/UPGRADE

DEMOLISHING SCOPE

8500 SHEPPARD AVE. E. TORONTO, ON

File No:	Date:	ACAD INFO
210240	29 OCT '21	Drawn By: EM Scale: File: 210240-M-101
Checked By: JK	Sheet 1 of 1	Plotting Scale: 1=1
Drawing No: M-101		Drawing Size: D