

CONDÜCTOR.

- GROUND RODS TO BE SUITABLY

INTERCONNECTED WITH #1 AWG

TO FORM COMPLETE LOOP

AROUND THE EQUIPMENT.

ANNEALED COPPER CONDUCTOR

ALL CONNECTIONS TO BE HIGH STRESS COMPRESSION FITTINGS, U.O.N.

GENERATOR ENCLOSURE

4 Generator Grounding Detail

600mm Ø CONCRETE ---

2 LAYERS OF 6 MILL -

FILLED SONO TUBE

POLYPLASTIC

5 \ Bollard Detail

-RIGID PVC DUCT BANK (LEFT TO RIGHT)

1X63mmC-SPARE

1X53mmC-SPARE

POWER CABLE INSTALLATION TO BE AS PER OESC DIAGRAM D11, DETAIL 3 FOR POWER FEEDS TO ATS-ED2A/ED2B.

∖ Generator Duct Bank Detail

1X35mmC-FIRE PUMP POWER

1X53mmC—FIRE ALARM SIGNALS 1X53mmC—ATS CONTROLS

1X53mmC-GENSET ANNUNCIATIOR

1X53mmC-AUXILIARY GENSET POWER

2X63mmC-STAND BY POWER (ATS-ED2A)

1X63mmC-STAND BY POWER (ATS-ED2B)

6 Emergency Generator - Elevation

1. ISSUED FOR TENDER APRIL 20, 20

date

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detail no. sheet no. where detailed

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100128434 ELECTRICAL

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RFTND22-06 GOLDEN AGE APPARTMENTS 135 WORTHINGTON ST. W. EMERGENCY GENERATOR UPGRADE

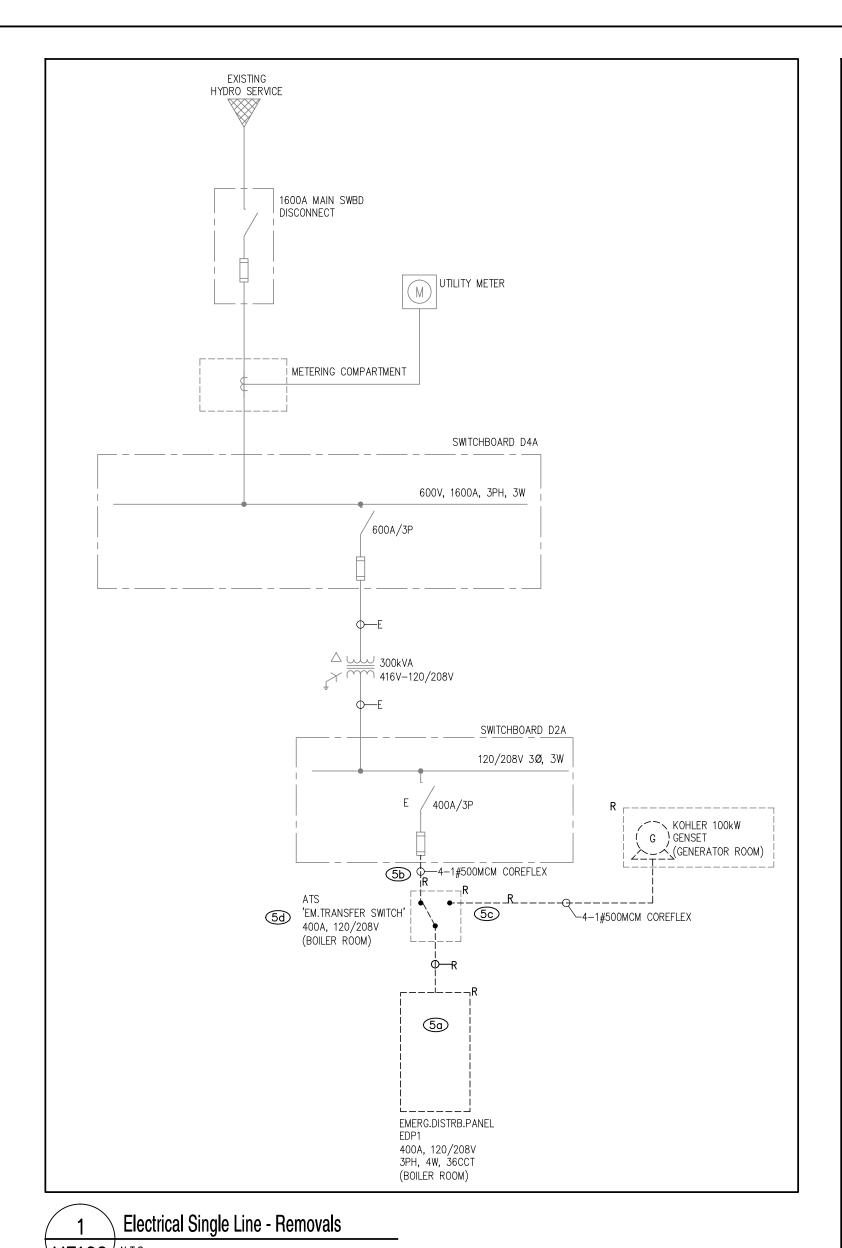
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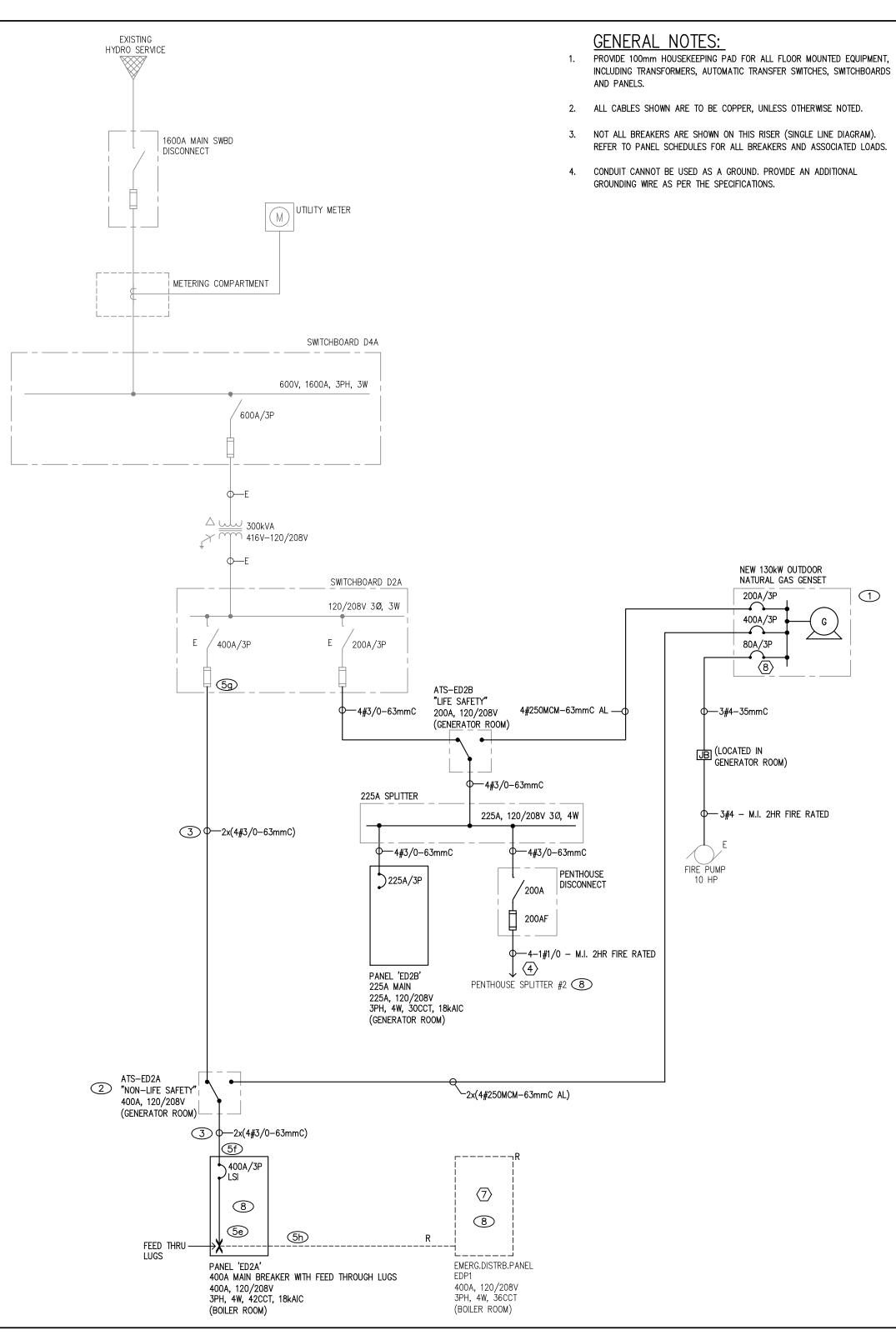
title **ELECTRICAL**

POWER SITE PLAN

drawn by: date: MARCH 2022 checked by: project no: 6503B scale:

dwg no: AS NOTED **ME101** plotted: April 20, 2022





Electrical Single Line - Proposed

ELECTRICAL LEGEND

STRIP LIGHTING FIXTURE (TYPE AS INDICATED) 120V WALL MOUNTED SWITCH UNLESS OTHERWISE SPECIFIED MOTOR RATED SWITCH WITH PILOT LIGHT EMERGENCY BATTERY PACK WITH DUAL HEADS (NUMBER AS SHOWN) INDOOR HORN FIRE ALARM PULL STATION HEAT DETECTOR- 57°C AND R.O.R. HEAT DETECTOR- 88°C AND R.O.R. DEVICE WITH WIRE GUARD FACP FIRE ALARM CONTROL PANEL

DUPLEX RECEPTACLE DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER ELECTRICAL PANEL, SURFACE MOUNTED EP'X (DESIGNATION AS SHOWN)

SAFETY DISCONNECT SWITCH DIRECT CONNECTION FOR EQUIPMENT THERMOSTAT

ELECTRIC BASEBOARD HEATER ELECTRICAL CONDUIT RISER ELECTRICAL CONDUIT DROP MINERAL INSULATED EXISTING DEVICE TO BE REMOVED EXISTING DEVICE TO BE RELOCATED EXISTING DEVICE TO REMAIN

METHOD OF PROCEDURE: **** REFER TO SINGLE LINE DIAGRAMS 1/E101 AND 2/E101

FOR CROSS REFERENCES*****

EXISTING DEVICE TO BE REPLACED WITH NEW

1) INSTALL NEW OUTDOOR NATURAL GAS GENERATOR.

2 INSTALL NEW ATS-ED2A AND ATS-ED2B IN EXISTING GENERATOR ROOM. PULL ALL CABLES INTO BUILDING AND TERMINATE AT BOTH ENDS.

3 INSTALL NEW NORMAL POWER FEEDS AND LOAD FEEDS. TERMINATE AT ATS END ONLY.

4 COMMISSION NEW GENERATOR WITH PORTABLE LOAD BANK.

5 PROVIDE PORTABLE GENSET TO TEMPORARILY POWER EMERGENCY LOADS: PRIOR TO SHUTDOWN, DISCONNECT 'EDP1' FROM EXISTING ATS AND ENERGIZE FROM 80kW PORTABLE STANDBY GENERATOR FOR

DURATION OF SHUTDOWN. ISOLATE NORMAL POWER TO EXISTING ATS AND DISCONNECT FEEDER

AT 'D2A' AND ATS. ISOLATE EMERGENCY POWER TO EXISTING ATS AND DISCONNECT FEEDER AT ATS.

REMOVE EXISTING ATS. INSTALL NEW PANEL ED2A IN PLACE OF EXISTING ATS. INSTALL NEW

TERMINATE FEEDERS FROM NEW ATS'S TO NEW EMERGENCY PANELS. INSTALL NEW ATS NORMAL POWER FEEDS FROM SWITCHBOARD 'D2A'

DISCONNECT PORTABLE GENERATOR FROM EXISTING 'EDP1'. BACKFEED EXISTING 'EDP1' FROM NEW EMERGENCY PANEL 'ED2A' UTILIZING FEED THRU LUGS AND EXISTING CABLE (FROM EXISTING

6 RETURN NORMAL POWER TO ALL EMERGENCY LOADS.

7 COMMISSION ATS-ED2A AND ATS-ED2B WITH NEW GENERATOR.

8 MOVE SPECIFIED "NON-LIFE SAFETY" CIRCUITS IN EXISTING PANEL 'EDP1' OVER TO NEW PANEL 'ED2A'. EXTEND WIRING AS REQUIRED. MOVE FEED TO PENTHOUSE SPLITTER #2 FROM EXISTING PANEL 'EDP1' TO NEW DISCONNECT AS SHOWN. M.I. 2HR FIRE RATED CABLE REQUIRED FOR PENTHOUSE SPLITTER FEED. REFER TO ELECTRICAL DRAWING NOTE 4 PERTAINING TO REPLACEMENT OF EXISTING WIRING ONLY.

ELECTRICAL GENERAL NOTES: ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ONTARIO ELECTRICAL SAFETY CODE. ELECTRICAL CONTRACTOR IS TO OBTAIN ALL APPROVALS FROM LOCAL

ELECTRICAL SAFETY AUTHORITY PRIOR TO COMMENCING WORK.

THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH NORTHSHORE ENGINEERING DRAWINGS. ENSURE ALL REQUIREMENTS ARE COORDINATED

AND CARRIFD. 4. ALL DEVICES SHOWN ARE NEW, UNLESS OTHERWISE NOTED.

5. FIRE STOP ALL PENETRATIONS THRU FIRE RATED ASSEMBLIES.

6. ALL UNUSED WIRING SHALL BE PROPERLY TERMINATED, OR REMOVED. WIRING THAT CANNOT BE REMOVED AND IS CONCEALED AND INACCESSIBLE MUST BE CUT OFF WHERE EXPOSED (SO AS TO BE TOO SHORT TO BE REUSED) AND BE MADE SAFE.

REFER TO DESIGNATED SUBSTANCE SURVEY IN PROJECT FRONT END FOR ALL POTENTIAL HAZARDOUS BUILDING MATERIALS. ENSURE ALL APPLICABLE SAFETY PROCEDURES ARE EXECUTED AND MAINTAINED.

POWER GENERAL NOTES:

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

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

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

LIGHTING GENERAL NOTES:

EMERGENCY BATTERY PACK TO BE NEW 12 VOLT, COMPLETE WITH TWO 6W LED HEADS, EQUAL TO STANPRO-SLC-12XXX-2S-6WLA WH-AT-LD-TD SERIES TO BE COMPLETE WITH AUTO-TEST, LAMP DISCONNECT, BATTERY DISCONNECT AND TIME DELAY. WATTAGE TO MATCH

FIRE ALARM GENERAL NOTES:

. FIRE ALARM WIRING IN CONCEALED SPACES TO BE INSTALLED IN CONDUIT. REFER TO SPECIFICATIONS FOR ALL INSTALLATION AND WIRING

PROVIDE FIRE ALARM DEVICES AS SHOWN AND PROVIDE PARTIAL FIRE ALARM SYSTEM VERIFICATION (TO CAN/ULC-S537 STANDARDS) UPON

. ALL FIELD WIRING SHALL BE IN ACCORDANCE WITH CSA C22.1, CANADIAN ELECTRICAL CODE, PART 1, SECTION 12 & 32, THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS AND THE REQUIREMENTS OF CAN/ULC-S524, CLAUSE 4.4.

ELECTRICAL DRAWING NOTES:

1) DISCONNECT AND REMOVE EXISTING DUCTS, ACTUATORS AND ALL SUPPORT BRACKETS FOR GENERATOR INTAKE AND VENTILATION.

(2) FUEL TANK SHALL BE REMOVED AND DISPOSED IN A MANNER THAT SATISFIES TSSA AND MOE. REMOVE ALL UNUSED PIPING. PENETRATIONS THROUGH EXTERIOR WALL FROM VENTING AND FILLING PIPES SHALL BE PATCHED WITH MASONRY TO MATCH EXISTING. RESTORE EXTERIOR TO MATCH EXISTING.

REMOVE ALL UNUSED CONDUITS, TRAY, WIRING, AND SUPPORT BRACKETS.

4 A CASH ALLOWANCE SHALL BE PROVIDED TO COVER COSTS ASSOCIATED WITH CONVERTING EXISTING BRANCH WIRING TO M.I. 2HR FIRE RATED CABLE WHERE REQUIRED. COSTS ASSOCIATED WITH ADDITIONAL LENGTH TO EXTEND CABLE TO NEW DISCONNECT SHALL BE

5 MODIFY EXISTING UNISTRUT RACK TO SUIT NEW PANEL 'ED2A'.

(6) RESTORE ALL REQUIRED CONNECTIONS TO ELEVATOR CONTROLLERS AND RELATED SYSTEMS.

(7) A CASH ALLOWANCE SHALL BE PROVIDED TO COVER COSTS ASSOCIATED WITH MOVING OTHER POSSIBLE LIFE SAFETY CIRCUITS CURRENTLY FED FROM SUBPANELS ON EXISTING PANEL EDP1.

8 COORDINATE BREAKER SIZE WITH OVERCURRENT PROTECTION ON FIRE PUMP CONTROLLER.

1. ISSUED FOR TENDER APRIL 20, 20 revision date

the Contractor shall check and verify all dimensions before proceeding with the work

A detail no. B / sheet no. where detailed

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project

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NORTH BAY

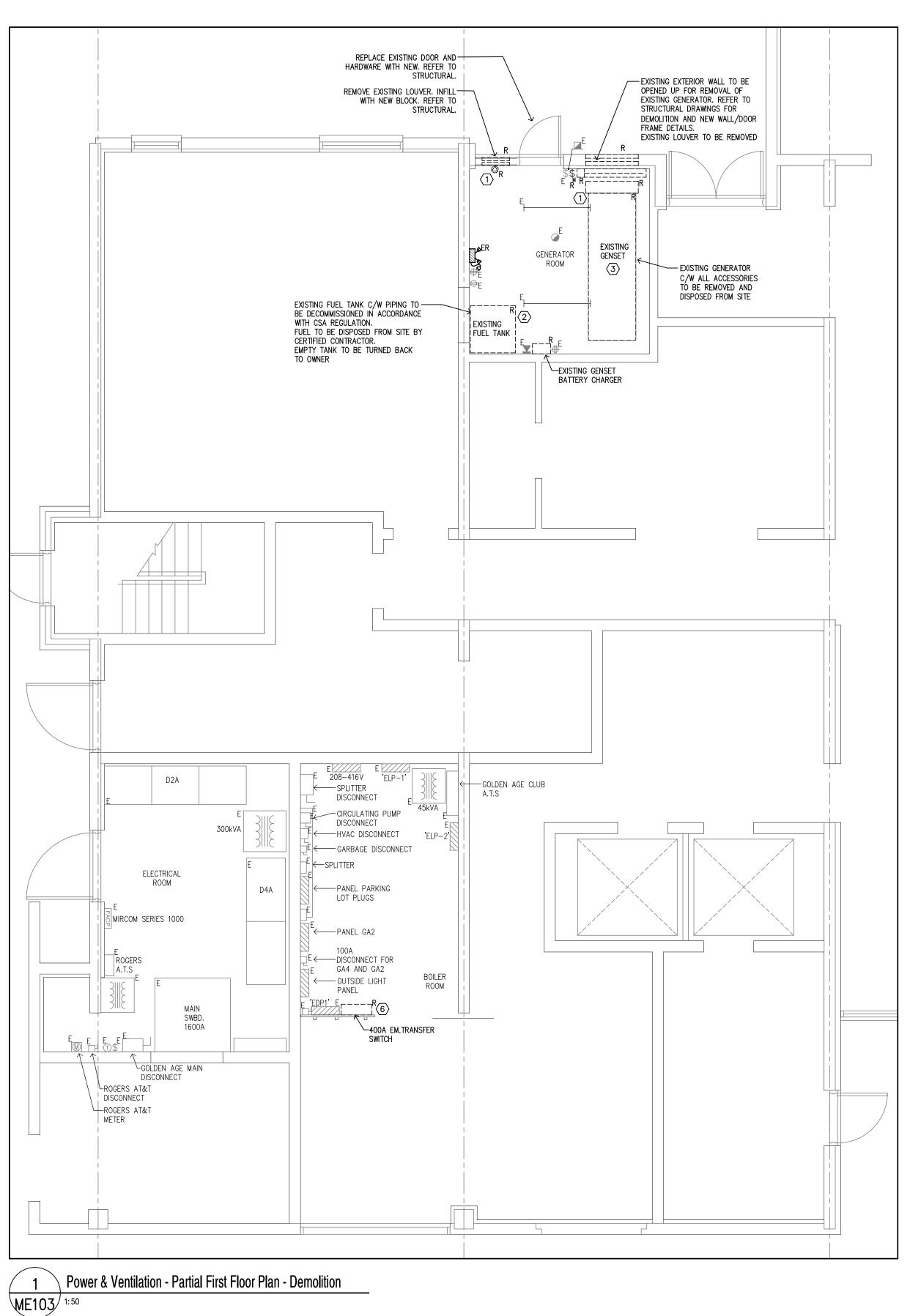
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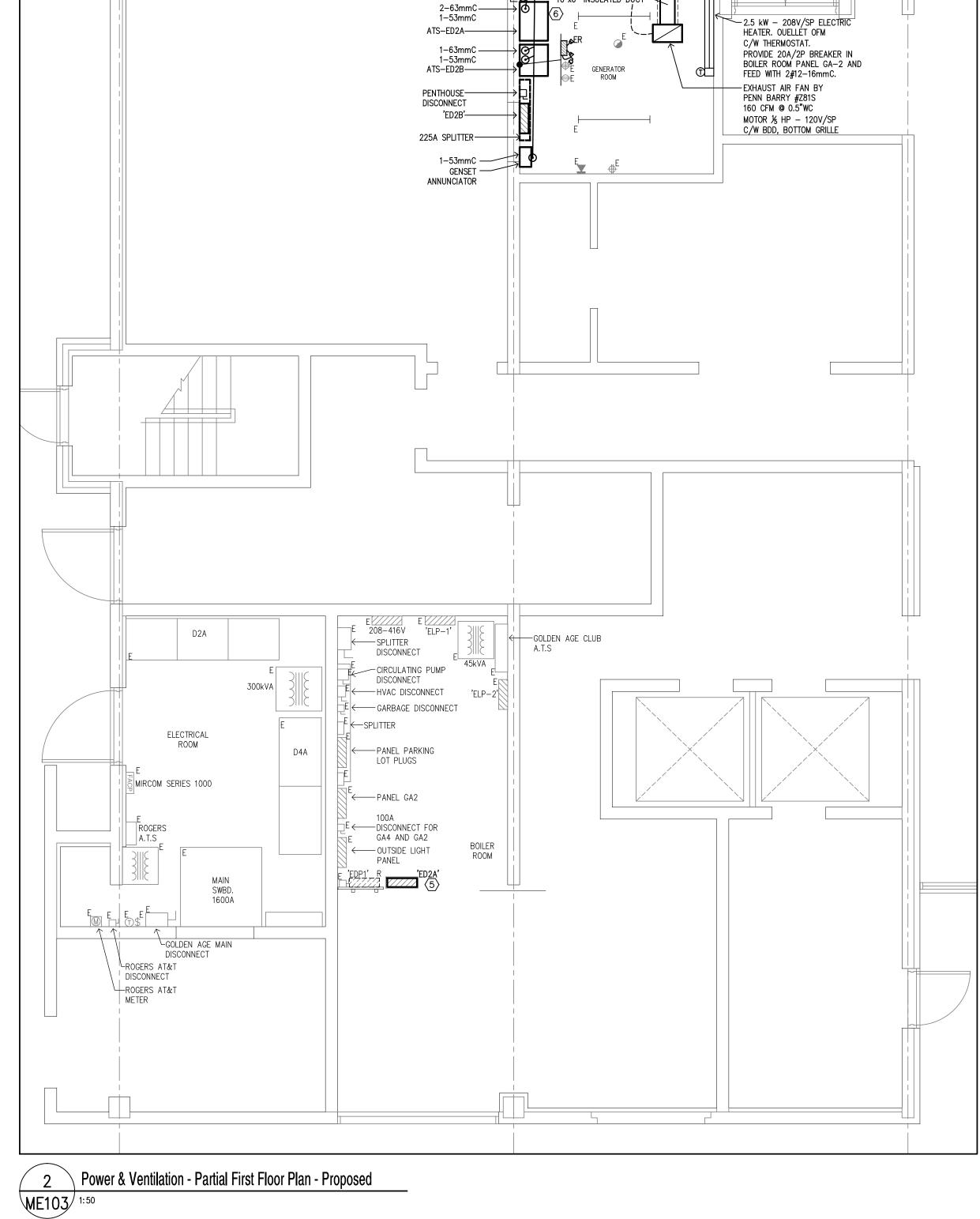
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ELECTRICAL POWER SINGLE LINE DIAGRAMS LEGEND AND NOTES

drawn by: EH	date: MARCH 2022
checked by: RM	project no: 6503B
scale:	dwg no:

| ME102 plotted: April 20, 2022





REFER TO 3/ME101 FOR DUCT BANK DETAIL.

- CORE THROUGH FOUNDATION AND

BREAK UP FLOOR TO INSTALL

/CONDUIT. |

10"x6" INSULATED DUCT-

--- NEW 24"x18" LOUVER

(GREY COLOUR)

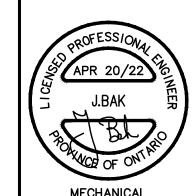
1-2 ME103 KEY PLAN - FIRST FLOOR

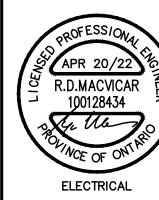
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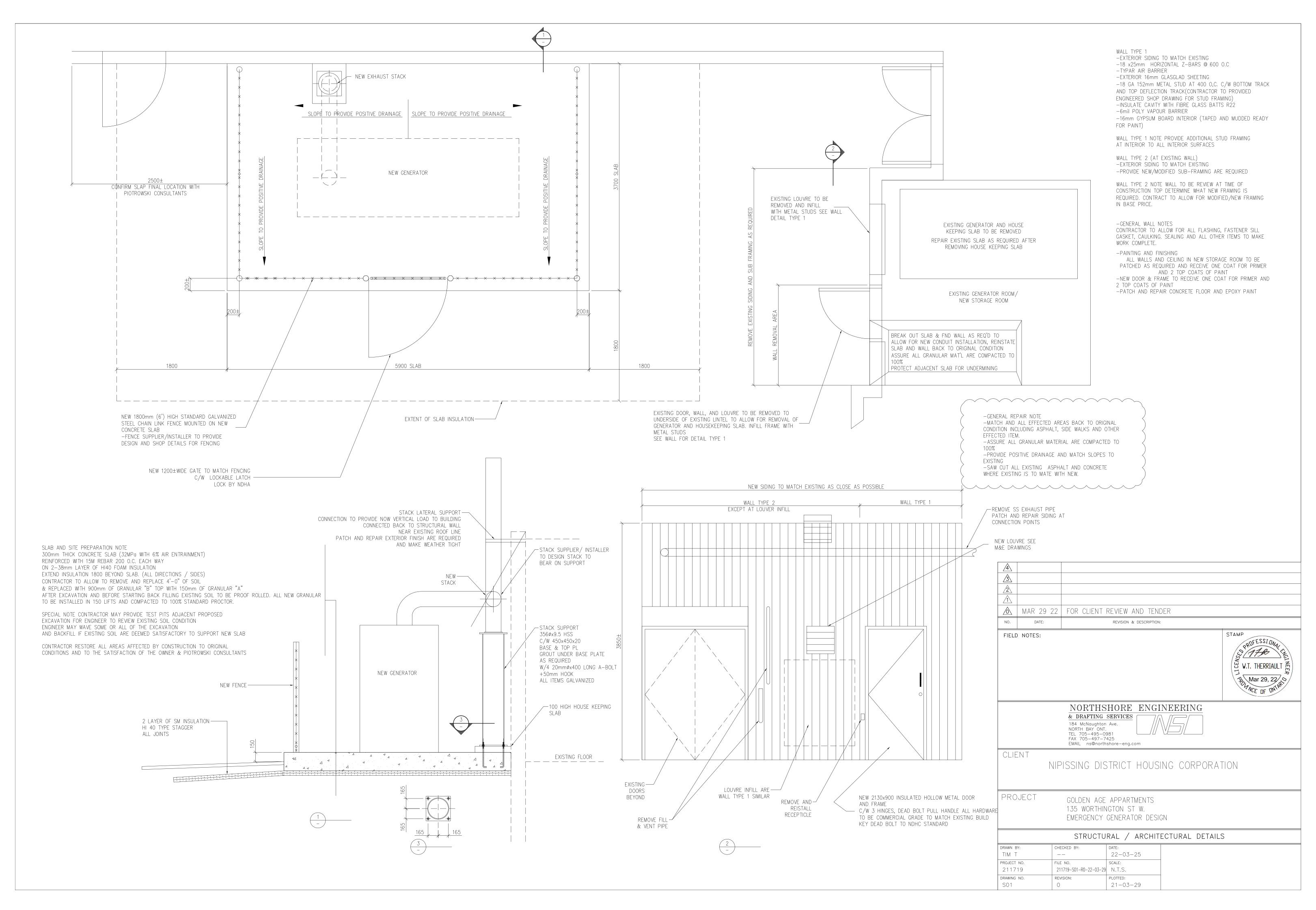
RFTND22-06 GOLDEN AGE APPARTMENTS 135 WORTHINGTON ST. W. EMERGENCY GENERATOR UPGRADE

NORTH BAY

ELECTRICAL & MECHANICAL POWER & VENTILATION PARTIAL FIRST FLOOR PLAN

	drawn by: EH	date: MARCH 2022
Ī	checked by: RM	project no: 6503B
Ī	scale: AS NOTED	dwg no:
ŀ	plotted:	ME103

plotted: April 20, 2022



TB