

1st FLOOR KEY PLAN

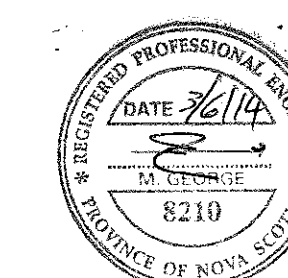


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PROJECT No. 133430020

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project project

BRIDGEWATER HRSDC
RE-FIT
77 DUFFERIN STREET
BRIDGEWATER
NOVA SCOTIA

drawing dessin

FIRST FLOOR EXISTING
AND NEW
ELECTRICAL SYSTEM
LAYOUTS

designed A.CAMERON conçu

date FEB. 21, 2014

drawn A.CAMERON dessiné

date FEB. 21, 2014

approved R.DUMARESQ approuvé

date FEB. 21, 2014

Tender THEA LUYPEN Soumission

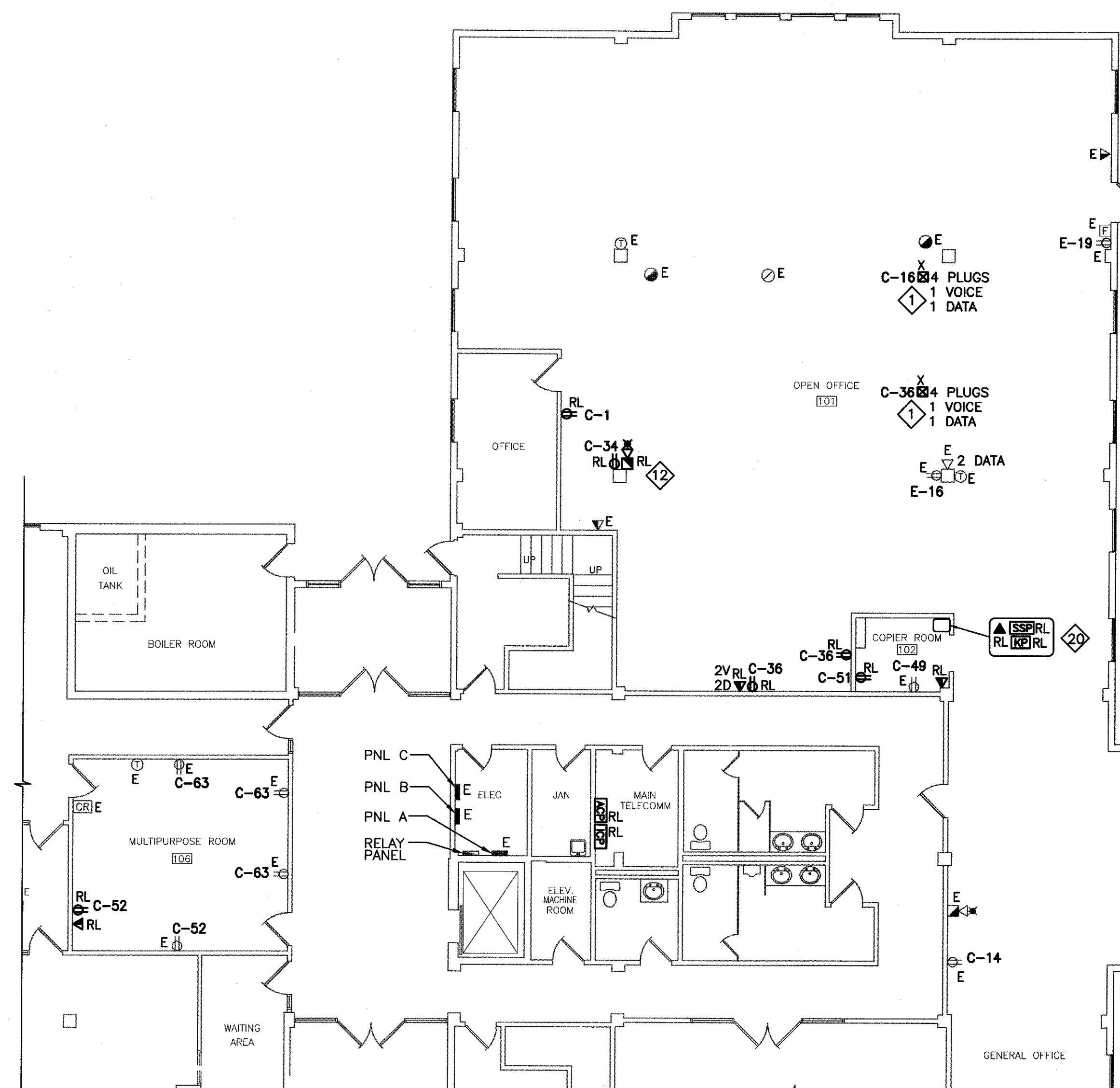
PWSSC Project Manager Administrateur de projets TPSGC

project number no. du projet

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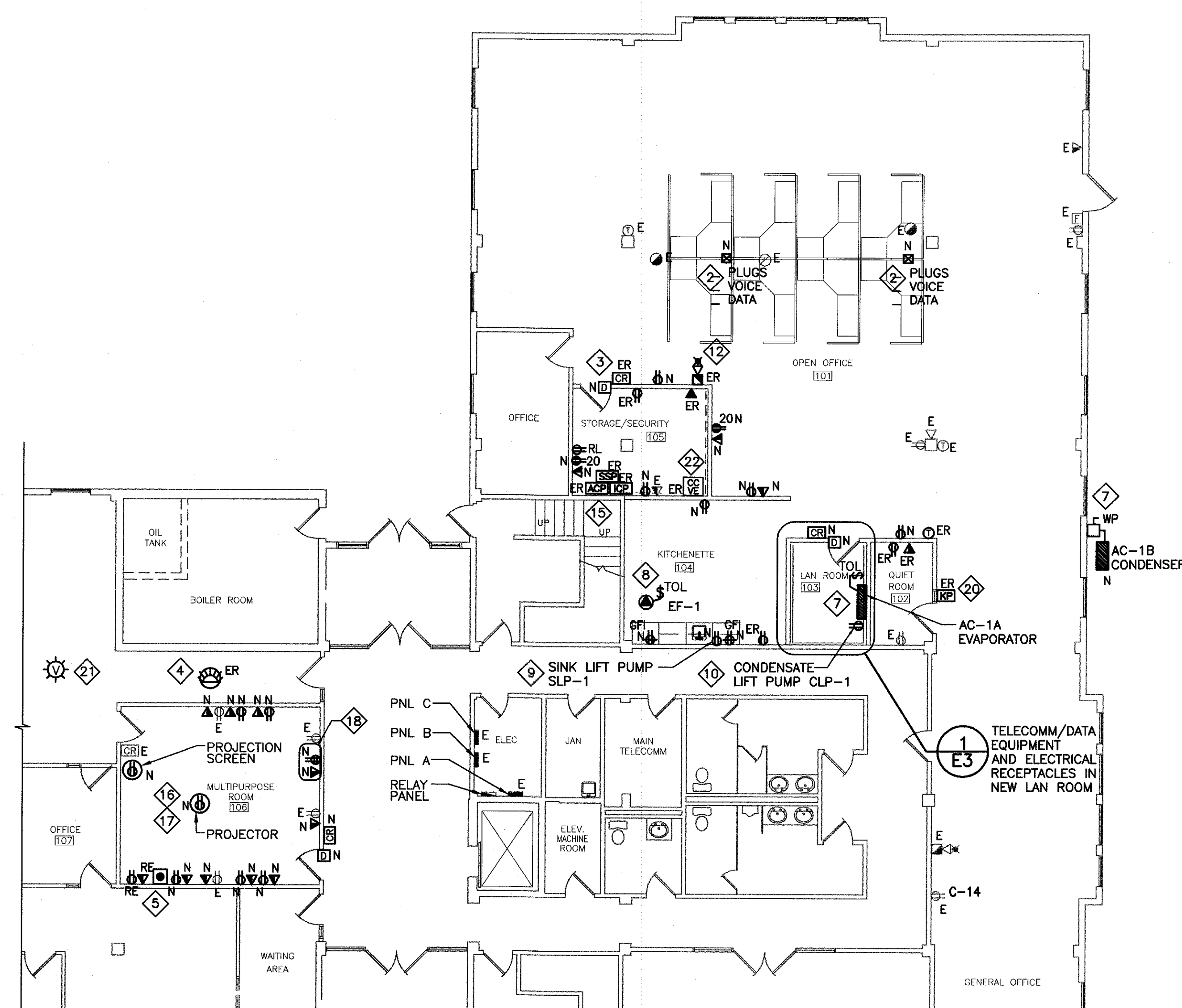
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E3



1ST FLOOR EXISTING ELECTRICAL PLAN

SCALE : 1:100
0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m



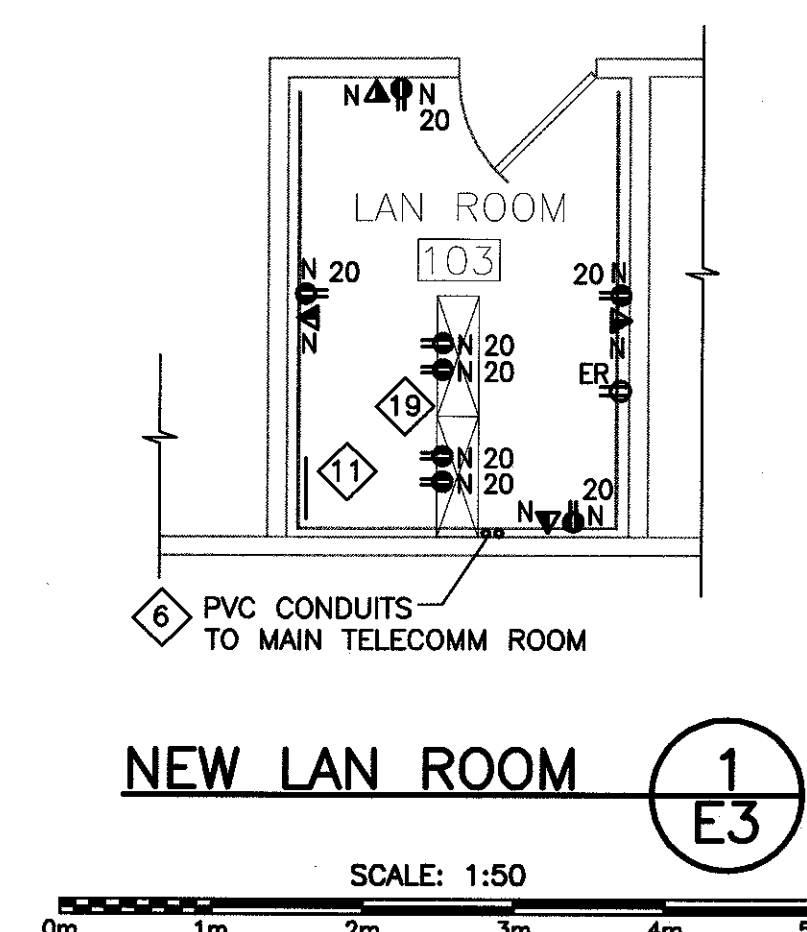
1ST FLOOR PROPOSED ELECTRICAL PLAN

SCALE : 1:100
0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m

ELECTRICAL KEY NOTES

ELECTRICAL CIRCUITING: NEW EQUIPMENT SHALL BE FED FROM CIRCUITS MADE FREE UNDER THE SCOPE OF THIS PROJECT OR FROM SPARE CAPACITY IN EXISTING ELECTRICAL PANELS LOCATED IN ELECTRICAL ROOM. CONTRACTOR SHALL VERIFY EXISTING AVAILABLE CIRCUITS AND PANEL CAPACITY ON SITE.

- EXISTING DROP/POLE TO BE REMOVED. PULL EXISTING SERVICES BACK TO PANEL.
- ESDC TO PROVIDE NEW DROP/POLE IN TWO LOCATIONS AS INDICATED WHICH WILL BE INSTALLED BY FURNITURE INSTALLERS. PROVIDE THREE 15A 1P CIRCUIT BREAKERS IN AVAILABLE PANEL SPACE FOR EACH NEW FEED TO SYSTEM FURNITURE. PROVIDE 2#12 + #12 BOND AWG IN 27mm CONDUIT FROM EACH CIRCUIT TO JUNCTION BOX INSTALLED IN CEILING SPACE NEAR NEW POLE LOCATIONS. REFER TO SYSTEM FURNITURE ELECTRICAL DIAGRAM ON DRAWING E1. TELECOMM CABLING AND CONNECTIONS BY OTHERS. ALL EXTENSIONS ARE TO BE COMPLETED IN APPROVED BOXES IN CEILING SPACE.
- RELOCATE CARD READER FROM SECOND LEVEL LAN ROOM LOCATION. TO DOOR PF NEW SECURITY ROOM. COORDINATE FINAL LOCATION ON SITE WITH DEPARTMENTAL REPRESENTATIVE.
- RELOCATE AUDIBLE ALARM DEVICE FROM SECOND FLOOR TO CORRIDOR OUTSIDE MULTIPURPOSE ROOM. COORDINATE FINAL LOCATION ON SITE WITH DEPARTMENTAL REPRESENTATIVE.
- RELOCATE MOBILE PANIC BUTTON FROM SECOND FLOOR TO MULTIPURPOSE ROOM. COORDINATE FINAL LOCATION ON SITE WITH DEPARTMENTAL REPRESENTATIVE.
- PROVIDE 2 X 103mm CONDUIT C/W NYLON PULL CORD FROM NEW LAN ROOM TO MAIN TELECOMM ROOM. CABLING AND CONNECTIONS BY OTHERS.
- PROVIDE 2P 20A BREAKER IN HEAT TRACE PANEL IN MAIN ELECTRICAL ROOM ON MAIN FLOOR FOR SPLIT A/C SYSTEM. PROVIDE 2#12 + #12 BOND IN 27mm CONDUIT FOR CONNECTION OF COMPLETE SYSTEM. RUN MAIN FEED TO EXTERIOR CONDENSER. FEED INTERIOR EVAPORATOR UNIT FROM EXTERIOR CONDENSER. PROVIDE 20A RATED THERMAL OVERLOAD SWITCH FOR EVAPORATOR IN LAN ROOM. PROVIDE 30A DISCONNECT IN WEATHERPROOF ENCLOSURE FOR OUTDOOR CONDENSER. A/C SYSTEM PROVIDED AND INSTALLED BY MECHANICAL TRADE. COORDINATE FINAL INSTALLATION LOCATIONS ON SITE. CONTROL WIRING BY MECHANICAL CONTRACTOR. CIRCUIT BREAKER SHALL MATCH EXISTING PANEL MANUFACTURER AND I.C. RATING.
- PROVIDE 2#12 + #12 AWG IN 27mm CONDUIT AND 15A RATED THERMAL OVERLOAD SWITCH FOR EXHAUST FAN EF-1. FEED FROM A NEARBY CIRCUIT MADE FREE BY DEMOLITION UNDER THIS SCOPE. FAN AND CONTROLS BY MECHANICAL TRADES. INSTALL SWITCH IN CEILING SPACE ADJACENT TO FAN. COORDINATE FINAL LOCATION ON SITE WITH MECHANICAL TRADE.
- PROVIDE 2#12 + #12 BOND IN 27mm CONDUIT AND A 5-15R RECEPTACLE FOR SINK LIFT PUMP. FEED FROM A NEARBY CIRCUIT MADE FREE BY DEMOLITION UNDER THIS SCOPE. INSTALL RECEPTACLE IN CABINET ADJACENT TO PUMP. PUMP AND CONTROLS BY MECHANICAL TRADES. COORDINATE FINAL LOCATION ON SITE WITH MECHANICAL TRADE.
- PROVIDE 2#12 + #12 BOND IN 27mm CONDUIT AND A 5-15R RECEPTACLE FOR CONDENSATE LIFT PUMP. FEED FROM A NEARBY CIRCUIT MADE FREE UNDER THIS SCOPE. PUMP AND CONTROLS BY MECHANICAL TRADES. COORDINATE FINAL LOCATION ON SITE WITH MECHANICAL TRADE.
- RELOCATE LAN EQUIPMENT AND GROUNDING BAR FROM SECOND FLOOR LAN ROOM TO FIRST FLOOR LAN ROOM AND REGROUND RELOCATED LAN EQUIPMENT. PROVIDE GROUND CONDUCTORS FOR RECONNECTION OF GROUND BAR IN LAN ROOM TO GROUND BAR IN MAIN TELECOMM ROOM.
- RELOCATE FIRE ALARM HORN STROBE FROM COLUMN TO NEW SECURITY ROOM WALL. PROVIDE NEW DEVICE BOX AND EXTEND EXISTING SIGNALING CIRCUIT TO NEW STROBE LOCATION. WIRING METHOD AND TYPE TO MATCH EXISTING SYSTEM. DO NOT USE JUNCTION BOX FOR CIRCUIT EXTENSION. RUN NEW WIRING FROM PREVIOUS DEVICE IN SIGNALING CIRCUIT.
- FEEDERS AS REQUIRED. UTILIZE CSA APPROVED JUNCTION BOXES FOR ANY NECESSARY EXTENSIONS. ELECTRICAL FEEDERS REQUIRED FOR EXTENSIONS ARE TO MATCH EXISTING FEEDER SIZES.
- PROVIDE ALL NECESSARY CONDUCTORS AND CONDUIT FOR ALL NEW EQUIPMENT.
- EXISTING SECURITY DEVICES AND TELECOMM CONNECTION TO BE RELOCATED FROM STORAGE ROOM TO NEW SECURITY ROOM. MAINTAIN AND EXTEND EXISTING ELECTRICAL CIRCUIT. COORDINATE ON SITE WITH DEPARTMENTAL REPRESENTATIVE. PROVIDE JUNCTION BOX AND 2#12 + #12 BOND AWG IN 27mm CONDUIT AS REQUIRED. COORDINATE WITH SECURITY CONTRACTOR FOR FINAL INSTALLATION LOCATIONS.
- PROVIDE 2#12 + #12 BOND IN 27mm CONDUIT AND A 5-15R RECEPTACLE IN CEILING SPACE FOR PROJECTOR AND PROJECTOR SCREEN. FEED FROM CIRCUIT MADE FREE UNDER THIS SCOPE. COORDINATE FINAL LOCATION ON SITE WITH DEPARTMENTAL REPRESENTATIVE.
- PROVIDE 27mm CONDUIT AND NYLON PULL CORD FROM PROJECTOR TO TERMINATION POINT ADJACENT TO THE INSTRUCTOR'S DESK. COORDINATE FINAL LOCATION ON SITE WITH DEPARTMENTAL REPRESENTATIVE.
- INSTALL QUAD RECEPTACLE AND DATA OUTLET AT 1067mm A.F.F. IN ROOM 106 AS INDICATED.
- INSTALL ONE 20A TWIST LOCK RECEPTACLE AND ONE 20A REGULAR RECEPTACLE TO THE TOP OF EACH DATA RACK IN ROOM 103. RECEPTACLES SHALL BE DEDICATED AND NOT SWITCHED.
- RELOCATE EXISTING KEYPAD FROM EXISTING PHOTOCOPIER ROOM 102 TO WALL OUTSIDE NEW QUIET ROOM 102.
- VISUAL ALERT DEVICE RELOCATED FROM SECOND FLOOR. COORDINATE FINAL LOCATION ON SITE WITH DEPARTMENTAL REPRESENTATIVE.
- CLOSED CIRCUIT VIDEO EQUIPMENT RELOCATED FROM NON PUBLIC ZONE ON MAIN FLOOR. COORDINATE FINAL LOCATION ON SITE WITH DEPARTMENTAL REPRESENTATIVE.



NEW LAN ROOM 1 E3

SCALE: 1:50
0m 1m 2m 3m 4m 5m