LEGEND

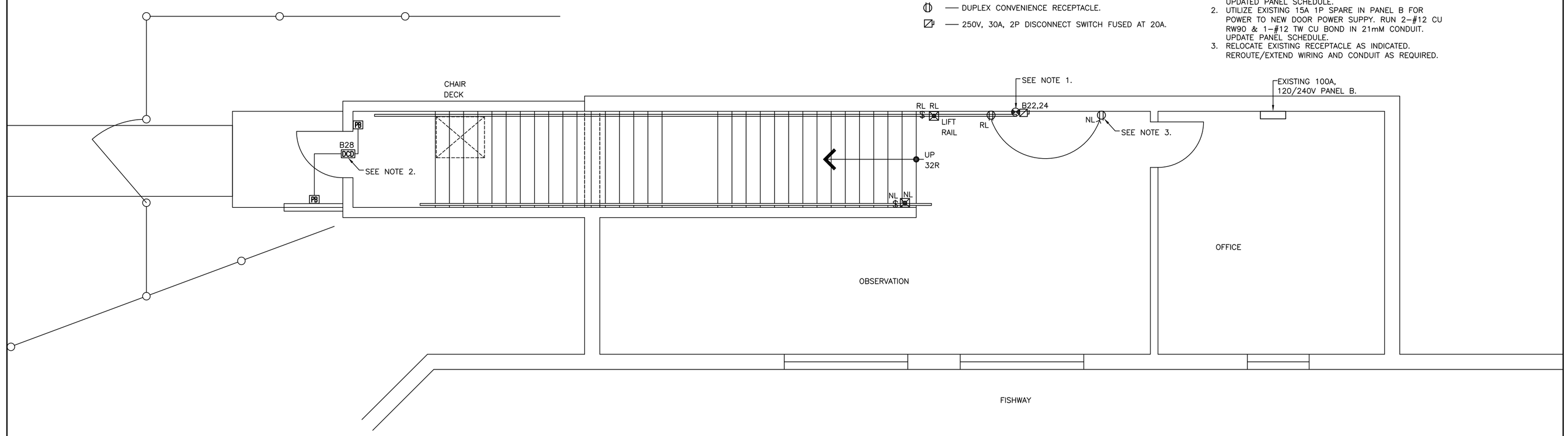
- DCD — DOOR POWER SUPPLY BY DOOR HARDWARE SUPPLIER.
- PB — PUSHBUTTON FOR HANDICAP DOOR OPERATOR. PROVIDE 100mm SQ. BOX AND 21mm EMT TO CEILING SPACE. MOUNT 1000mm AFF. PUSHBUTTON BY DOOR HARDWARE SUPPLIER.
- — ELECTRICAL CONNECTION TO EQUIPMENT.
- — SPEED CONTROLLER.
- $ — TOGGLE SWITCH.
- — DUPLEX CONVENIENCE RECEPTACLE.
- — 250V, 30A, 2P DISCONNECT SWITCH FUSED AT 20A.

SUBSCRIPTS

EX – EXISTING TO REMAIN.
RL – EXISTING TO BE RELOCATED.
NL – NEW LOCATION OF EXISTING.

NOTES

1. UTILIZE EXISTING 20A 2P SPARE IN PANEL B FOR POWER TO NEW ACCESSIBLE CHAIR LIFT. COORDINATE EXACT LOCATION ON SITE PRIOR TO ROUGH-IN. RUN 2-#12 CU RW90 AND 1-#12TW CU BOND IN 21mm CONDUIT TO LIFT DRIVE LOCATION AS INDICATED. UPDATED PANEL SCHEDULE.
2. UTILIZE EXISTING 15A 1P SPARE IN PANEL B FOR POWER TO NEW DOOR POWER SUPPY. RUN 2-#12 CU RW90 & 1-#12 TW CU BOND IN 21mM CONDUIT. UPDATE PANEL SCHEDULE.
3. RELOCATE EXISTING RECEPTACLE AS INDICATED. REROUTE/EXTEND WIRING AND CONDUIT AS REQUIRED.



ELECTRICAL LAYOUT – ACCESSIBILITY LIFT
SCALE 1:50

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

ELECTRICAL SPECIFICATION

1.0 GENERAL:

1.1 COMPLETE ELECTRICAL INSTALLATION SHALL CONFORM TO THE CANADIAN ELECTRICAL CODE C22.1-15 AND LOCAL BYLAWS CURRENTLY IN FORCE IN THE PROVINCE AND MUNICIPALITY.

1.2 ALL WORK SHALL BE PERFORMED BY PERSONNEL HAVING QUALIFICATIONS AS REQUIRED BY AN AUTHORITY HAVING JURISDICTION WHO ARE COMPETENT IN THEIR TRADE.

1.3 BEFORE SUBMITTING A PROPOSAL FOR THE WORK COVERED BY THE SPECIFICATIONS, IT IS RECOMMENDED THAT EACH BIDDER SHALL VISIT AND INSPECT THE SITE OF THE PROPOSED WORK IN ORDER THAT THEY MAY BE THOROUGHLY FAMILIAR WITH THE SITE AND LOCAL CONDITIONS, WITH THE CHARACTER AND DETAIL OF THE BUILDING CONSTRUCTION AND WITH ALL MATTERS WHICH CAN, IN ANY WAY, AFFECT THE WORK COVERED BY THE SPECIFICATIONS. MAKE ALLOWANCE FOR REMOVAL OF EXISTING POWER/LIGHTING AND SYSTEMS THAT INTERFERES WITH NEW WORK. NO CLAIM WILL BE ENTERTAINED FOR ANY LABOR, MATERIALS OR OTHER EXTRAS THAT MAY BE REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE CONTRACT WHICH COULD HAVE BEEN DETERMINED BY SITE EXAMINATION.

1.4 PAYMENT FOR PERMITS AND DEPOSITS FOR THE WORK SHALL BE INCLUDED IN THE TENDER PRICE.

1.5 USE ONLY NEW CSA APPROVED MATERIALS EXCEPT WHERE SPECIFICALLY NOTED.

1.6 THE CONTRACTOR SHALL GUARANTEE ALL NEW MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM DATE OF COMPLETION OF THE WORK AND FINAL ACCEPTANCE BY THE OWNER.

1.7 SHOP DRAWINGS SHOWING THE DESIGN AND CONSTRUCTION OF ALL APPARATUS SHALL BE PROVIDED. ELECTRONIC COPIES OF DRAWINGS SHALL BE SUBMITTED FOR EXAMINATION. ALL SHOP DRAWINGS TO INCLUDE ELECTRICAL SUBCONTRACTORS REVIEW STAMP, NAME OF PROJECT AND SIGNATURE INDICATING ITEM HAS BEEN REVIEWED BY ELECTRICAL SUBCONTRACTOR PRIOR TO SUBMISSION. IF CORRECTIONS ARE REQUIRED, COPIES WILL BE RETURNED WITH CORRECTIONS NOTED.

1.8 PROVIDE "AS-BUILT" DRAWINGS TO INDICATE ACTUAL CIRCUIT NUMBERS TO ALL ELECTRICAL EQUIPMENT SHOWN ON THE DRAWINGS AND ALL EXISTING REMAINING EQUIPMENT.

1.9 THIS CONTRACTOR SHALL PROVIDE PROPER PROTECTION FOR ALL EQUIPMENT, FIXTURES, MATERIALS, ETC. DURING THE CONSTRUCTION PERIOD. UPON COMPLETION OF THE WORK ALL PROTECTIVE MATERIALS, DIRT, RUBBISH AND DEBRIS DUE TO THE WORK SHALL BE REMOVED FROM THE SITE.

1.10 CONTRACTOR SHALL SUPPLY AND INSTALL ALL MATERIALS EXCEPT AS OTHERWISE SPECIFIED.

1.11 CSA AND MANUFACTURERS LABELS MUST BE VISIBLE AND AND LEGIBLE AFTER EQUIPMENT IS INSTALLED.

2.0 COORDINATION

2.1 COORDINATE WORK WITH WORK OF OTHER DIVISIONS TO AVOID CONFLICT.

2.2 NOTWITHSTANDING THE REVIEW OF SHOP DRAWINGS, THIS DIVISION MAY BE REQUIRED TO RELOCATE ELECTRICAL EQUIPMENT WHICH INTERFERES WITH THE EQUIPMENT OF OTHER TRADES, DUE TO LACK OF COORDINATION BY THIS DIVISION. THE COST OF THIS RELOCATION SHALL BE THE RESPONSIBILITY OF THIS DIVISION. THE OWNER SHALL DECIDE THE EXTENT OF THE RELOCATION REQUIRED.

3.0 SAFETY

3.1 NO WORK SHALL BE CARRIED OUT ON ANY LIVE EQUIPMENT. DISCONNECT POWER COMPLETELY TO ALL EQUIPMENT BEFORE PROCEEDING WITH WORK ON THAT EQUIPMENT. UTILIZE LOCK-OUTS & TAG-OUTS ON ALL EQUIPMENT WHICH IS BEING WORKED ON.

4.0 WORK IN EXISTING AREAS:

4.1 IN AREAS WHERE EXISTING DEVICES ARE BEING REMOVED, THE CONTRACTOR SHALL ENSURE THAT A SAFE AND WORKING SYSTEM IS MAINTAINED TO ALL REMAINING DEVICES.

4.2 REUSE EXISTING CIRCUITS WHERE POSSIBLE AND PROVIDE NEW AS REQUIRED. WHERE NEW LOADS ARE ADDED TO EXISTING CIRCUITS CONTRACTOR IS TO VERIFY EXISTING CIRCUIT CAPACITY AND REDISTRIBUTE LOADS WHERE LOAD IS >80% OR BREAKER RATING.

4.3 IF ANY CIRCUITS ARE DAMAGED OR INTERRUPTED DURING CONSTRUCTION, CIRCUITS SHALL BE EXTENDED AND RECONNECTED AS REQUIRED TO MAINTAIN EXISTING DEVICES AND EQUIPMENT IN SERVICE.

4.4 RELOCATE ALL EXISTING JUNCTION BOXES, CONDUITS, DEVICES, ETC. AS REQUIRED TO ACCOMMODATE DEMOLITION OF EXISTING AND CONSTRUCTION OF NEW WALL & CEILING ASSEMBLIES.

5.0 DEMOLITION:

5.1 PERFORM ALL REQUIRED DEMOLITION. DO NOT LEAVE POWERED WIRING EXPOSED IN DEMOLISHED AREAS.

5.2 VISIT SITE TO DETERMINE FULL EXTENT OF DEMOLITION WORK.

5.3 REMOVE ALL ELECTRICAL EQUIPMENT DEEMED OBSOLETE BY RENOVATION.

5.4 OWNER TO HAVE FIRST RIGHT OF REFUSAL FOR ALL EQUIPMENT BEING REMOVED. ALL OTHER OBSOLETE ELECTRICAL EQUIPMENT TO BE REMOVED FROM SITE BY DIVISION 26.

5.5 PROVIDE NEW TYPE WRITTEN DIRECTORIES FOR ALL EXISTING PANEL BOARDS INDICATING ALL NEW & EXISTING CIRCUITS.

5.6 REMOVE WIRING ASSOCIATED WITH OBSOLETE ELECTRICAL EQUIPMENT BACK TO SOURCE.

6.0 FIRE RATING PENETRATIONS:

6.1 MAINTAIN FIRE RATING AROUND CONDUITS PASSING THROUGH WALLS AND CEILINGS.

6.2 USE 3M BRAND, OR EQUAL, FIRE BARRIER PRODUCTS AT EACH PENETRATION.

6.3 STANDARD OF ACCEPTANCE FOR FIRE BARRIER PRODUCTS SHALL BE 3M #CP25 FIRE BARRIER CAULK, #303 PUTTY, #FS195 WRAP AND #CS195 SHEET.

7.0 WIRING METHODS:

7.1 THE ELECTRICAL WIRING SYSTEM AND VARIOUS ELECTRICAL EQUIPMENT TO BE GROUNDED IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE C22.1-15.

7.2 MINIMUM WIRE SIZE: #12 AWG.

7.3 PERFORM SPLICES ON #8 AWG AND SMALLER WIRES USING 3M-SCOTHLOC OR IDEAL-WIRENUT CONNECTORS.

7.4 LUGS, TERMINALS AND SCREWS USED FOR TERMINATION OF WIRING TO BE SUITABLE FOR EITHER COPPER OR ALUMINUM CONDUCTORS.

8.0 NOT USED

9.0 NOT USED

10.0 OUTLET BOXES

10.1 BOXES ARE TO BE FLUSH MOUNTED.

10.2 DO NOT INSTALL OUTLETS BACK TO BACK IN WALL. ALLOW MINIMUM 150mm HORIZONTAL CLEARANCE BETWEEN BOXES.

11.0 NOT USED

12.0 EXECUTION

12.1 INSTALL MATERIALS IN STRICT ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

12.2 PROVIDE INSPECTION CERTIFICATE UPON COMPLETION OF THIS WORK.

12.3 MOUNTING HEIGHTS:
- .1 INSTALL THE FOLLOWING MOUNTING HEIGHTS UNLESS OTHERWISE NOTED. ALL MOUNTING HEIGHTS ARE TO CENTER LINE OF EQUIPMENT ABOVE FINISHED FLOOR:
  - .1 LOCAL SWITCHES----------1200mm
  - .2 RECEPTACLES----------300mm

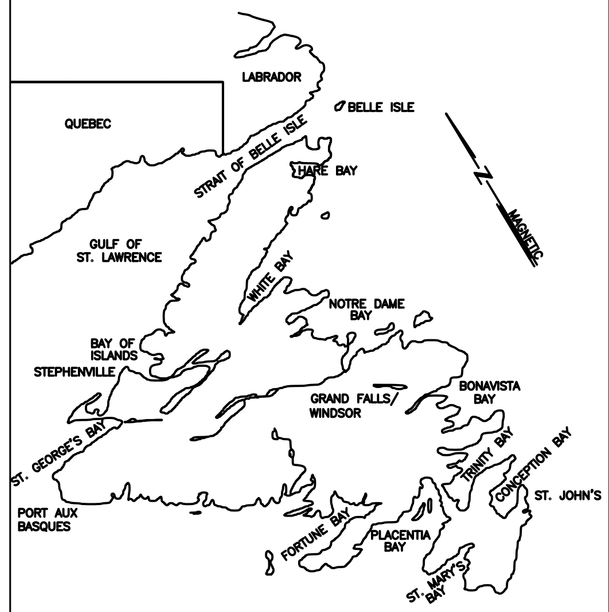
12.4 FIELD QUALITY CONTROL:
- .1 CONDUCT THE FOLLOWING TESTS:
  - .1 CIRCUITS ORIGINATING FROM BRANCH DISTRIBUTION PANELS.
- .2 FURNISH MANUFACTURERS CERTIFICATE OR LETTER CONFIRMING THAT THE INSTALLATION, AS IT PERTAINS TO EACH SYSTEM, HAS BEEN INSTALLED TO MANUFACTURERS INSTRUCTIONS.
- .3 INSTALLATION RESISTANCE TESTING:
  - .1 MEGGER CIRCUITS, FEEDERS AND EQUIPMENT UP TO 350V WITH 500V INSTRUMENT, UP TO 600V WITH 1000V INSTRUMENT.
- .2 CHECK RESISTANCE TO GROUND BEFORE TESTING.
- .3 PROVIDE INSTRUMENTS, METERS, EQUIPMENT AND PERSONAL REQUIRED TO CONDUCT TESTS.
- .4 SUBMIT TEST RESULTS FOR ENGINEER'S REVIEW.

13.0 STANDARD OF ACCEPTANCE

13.1 THE ITEMS NAMED MEET IN ALL RESPECT PERFORMANCE, QUALITY AND WORKMANSHIP AND ARE ACCEPTABLE TO THE OWNER WITHOUT QUALIFICATIONS.

13.2 EQUIPMENT PROPOSED SHALL MEET THE SAME STANDARDS OF PERFORMANCE, QUALITY AND WORKMANSHIP.

Fisheries and Oceans / Pêches et Océans
Real Property, Safety & Security / Biens immobiliers, protection et securite



KEY LOCATION PLAN

PRIME CONSULTANT

NEWLAB ENGINEERING LIMITED
CONSULTING ENGINEERS – PROJECT MANAGERS
SOUTH RIVER OFFICE P.O. BOX 400, CLARKE'S BEACH, NL, A0A 1W0
TEL. 709-786-4446
FAX. 709-786-4140
ST. JOHN'S OFFICE
TEL. 709-738-2065
FAX. 709-738-2066
e-mail: info@newlabengineering.ca

SUB CONSULTANT

CORE PROJECT #17-2759

CORE ENGINEERING INC.
MECHANICAL & ELECTRICAL CONSULTANT
57 PIPPY PLACE
ST. JOHN'S, NL, CANADA A1B 4H8
TEL (709)722-6613
FAX (709)722-0910

PROVINCE OF NEWFOUNDLAND AND LABRADOR
PEG Newfoundland and Labrador
PERMIT HOLDER
This Permit Allows
CORE ENGINEERING INC.
To practice Professional Engineering in Newfoundland and Labrador.
Permit No. as issued by PEG D0209.
which is valid for the year 2017.

REGISTERED PROFESSIONAL ENGINEER
PEG Newfoundland and Labrador
GREGORY S. TUCKER
SIGNATURE
NOV 21/17
DATE
NEWFOUNDLAND & LABRADOR

no.	revision	date	by	approved
RO	ISSUED FOR TENDER	NOV.21,2017	T.B.	G.T.

Project – projet
TORRENT RIVER FISHWAY – OBSERVATION CHAMBER WHEELCHAIR LIFT INSATLLATION
HAWKE'S BAY, NL

Drawing – dessin
ELECTRICAL LAYOUT AND SPECIFICATIONS

drawn – dessine: T.B.	designed – dessine par: G.T.
date – date: OCTOBER 2017	checked – verifie: G.T.
scale – echelle: AS SHOWN	approved for tender– approuve pour l'offre

project no. – projet no.	drawing no. – no du dessin	sheet – feuille
F6879-179229	12I1104A010E01	