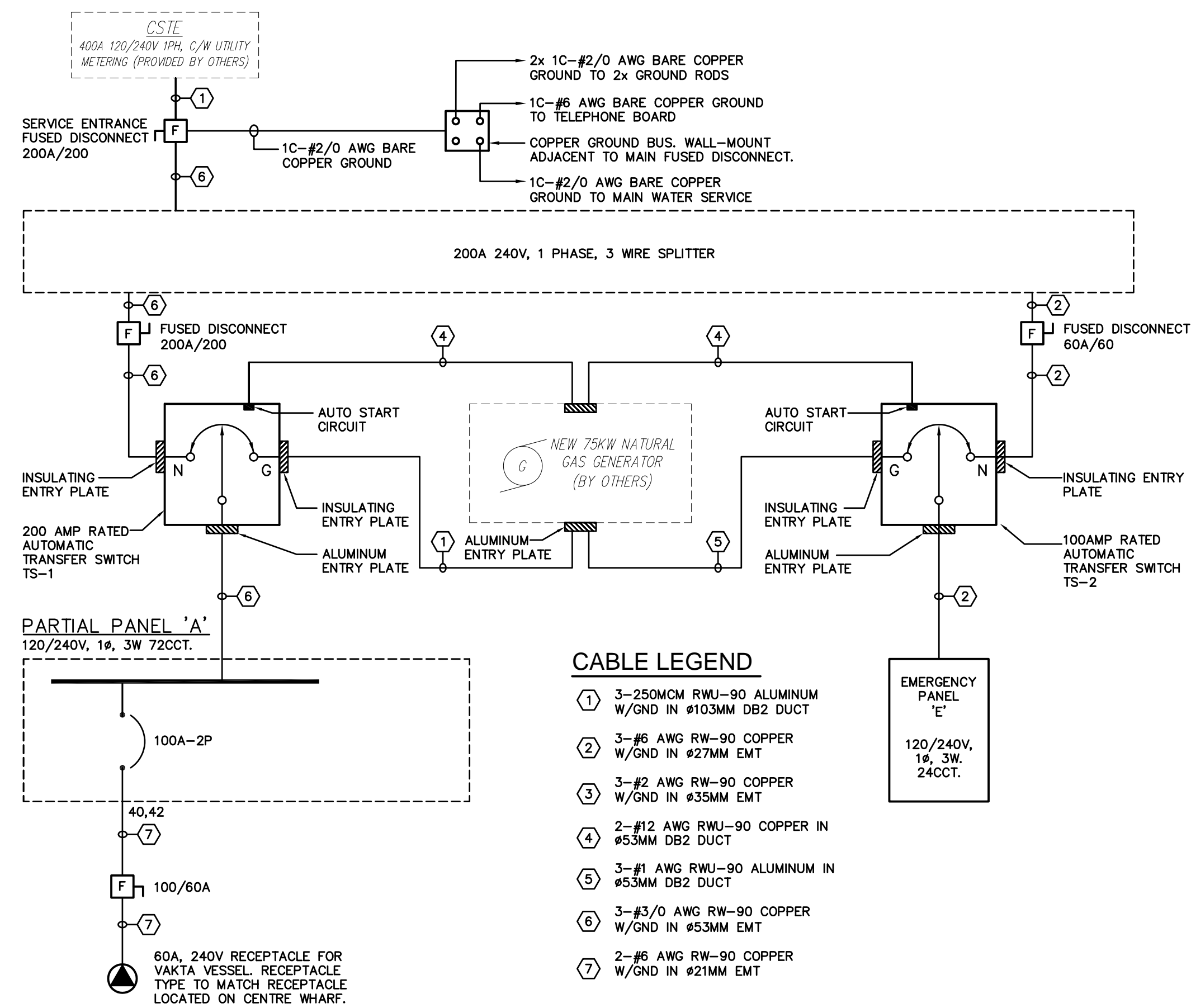


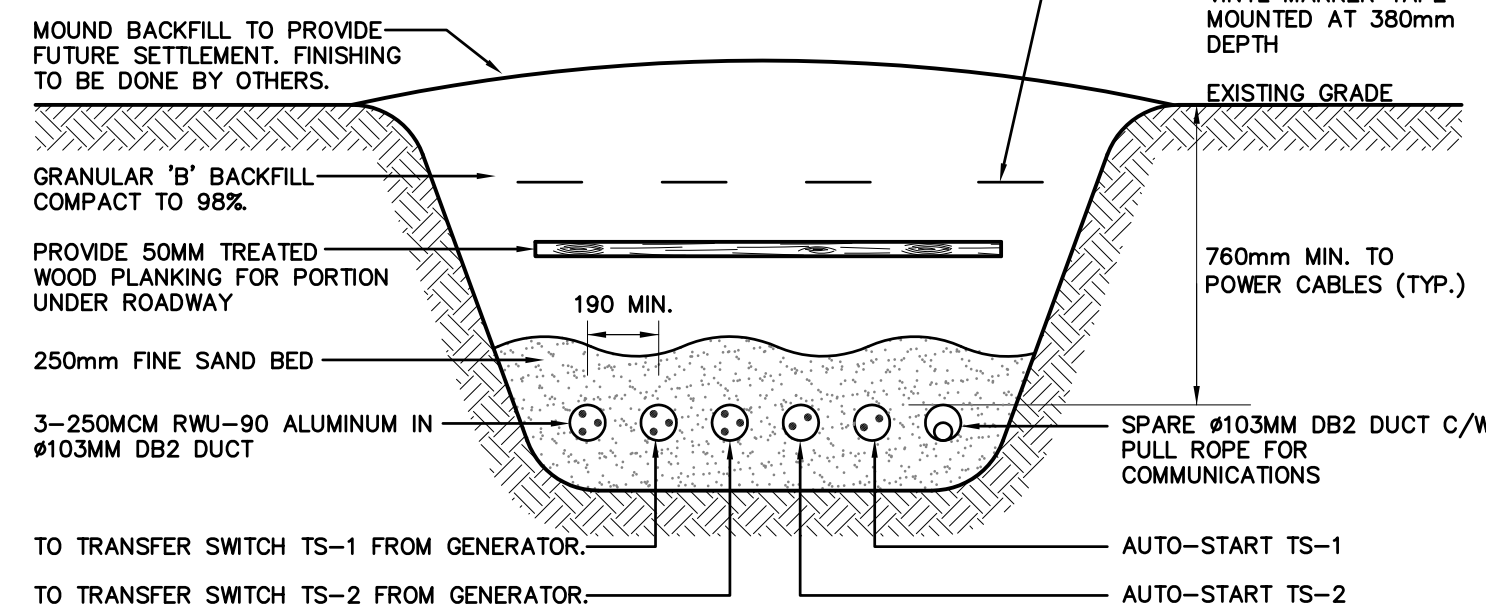
MAIN FLOOR PLAN - LIGHTING PLAN
SCALE: 1:125



SINGLE LINE DISTRIBUTION - POWER REQUIREMENTS
SCALE: N.T.S.

CABLE LEGEND

- 1 3-250MCM RWJ-90 ALUMINUM W/GND IN #103MM DB2 DUCT
- 2 3-#6 AWG RW-90 COPPER W/GND IN #27MM EMT
- 3 3-#2 AWG RW-90 COPPER W/GND IN #35MM EMT
- 4 2-#12 AWG RWJ-90 COPPER IN #53MM DB2 DUCT
- 5 3-#1 AWG RWJ-90 ALUMINUM IN #53MM DB2 DUCT
- 6 3-#3/0 AWG RW-90 COPPER W/GND IN #53MM EMT
- 7 2-#6 AWG RW-90 COPPER W/GND IN #21MM EMT



TRENCH DETAIL - CS TE TO PANEL 'P1'
SCALE: NTS

DEMAND LOAD CALCULATION

REFERENCE RULE 8-210

WORKSHOP (INDUSTRIAL/COMMERCIAL)	25 W/M ² X 73 M ²	= 1,825 WATTS
BOAT HOUSE (STORAGE WAREHOUSE)	5 W/M ² X 210 M ²	= 1,050 WATTS

MECHANICAL EQUIPMENT

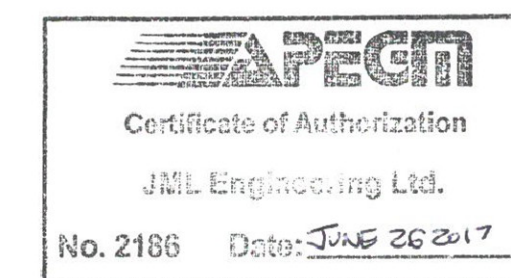
MUA-1 (MAKE UP AIR UNIT)	45.6 AMPS AT 240 VOLTS	= 10,944 WATTS
UH-1, UH-2, UH-3 (GAS UNIT HEATERS)	4.35 AMPS AT 120 VOLTS X 3	= 1,620 WATTS
DF-1, DF-2, DF-3 (DESTRATIFICATION FANS)	1500 WATTS X 3	= 4,500 WATTS
EF-1, EF-2 (EXHAUST FANS)	4.9 AMPS AT 240 VOLTS X 3	= 3,528 WATTS
OH-1, OH-2 (OVERHEAD DOORS)	4.9 AMPS AT 240 VOLTS X 2	= 2,352 WATTS
TOTAL		= 25,819 WATTS

TOTAL BUILDING LOAD	= 25,819 WATTS
THEREFORE SERVICE	= 25,819 + 240
	= 108 AMPS @ 240V 1P

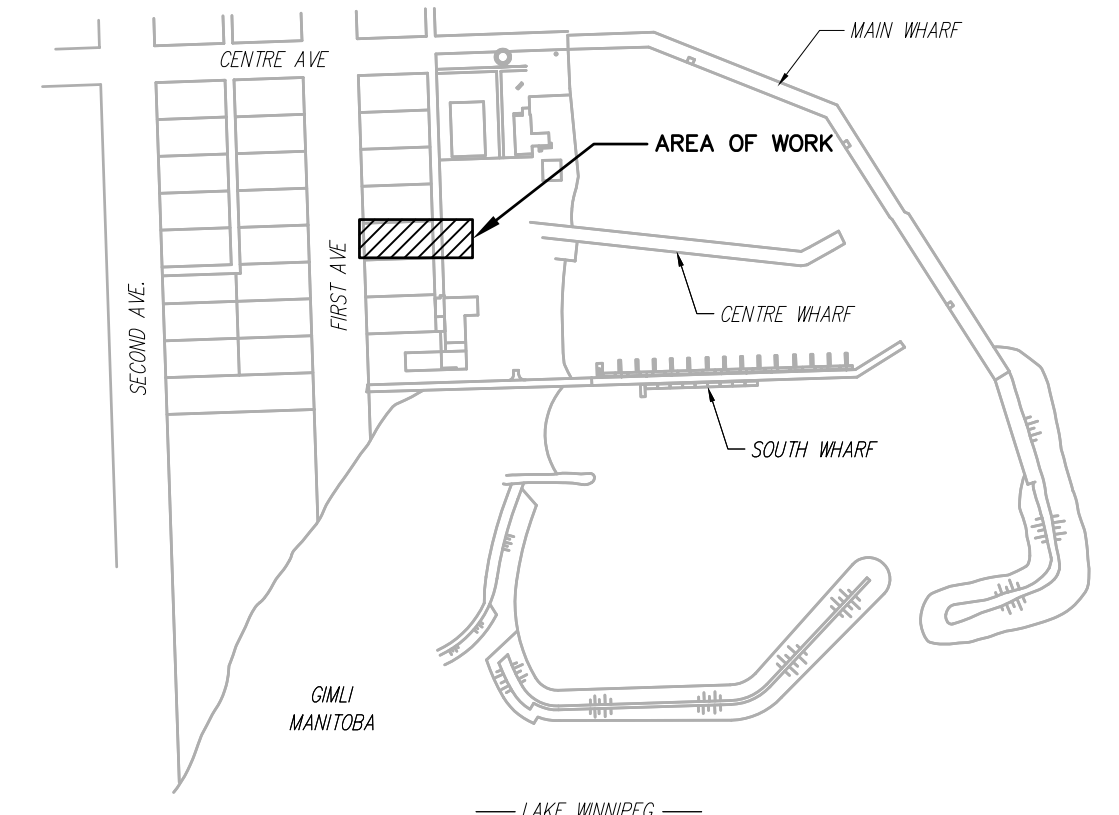
SERVICE SIZE = 200 AMP 80% RATED

ELECTRICAL LEGEND

- LED LIGHT FIXTURE
- LED FIXTURE - WALL MOUNTED
- PHOTOCELL SENSOR
- LED EXIT LIGHT FIXTURE - WALL MOUNTED
- EMERGENCY LIGHTING BATTERY PACK C/W REMOTE HEAD(S)
- EMERGENCY LIGHTING UNIT SINGLE REMOTE HEAD
- SINGLE POLE SWITCH
- TWO GANG SWITCH
- THREE WAY SWITCH
- WALL MOUNTED OCCUPANCY SENSOR
- WP DENOTES WEATHERPROOF DEVICE
- 20A DENOTES 20 AMP RECEPTACLE
- DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE - MOUNTED ABOVE COUNTER
- W DENOTES DUPLEX RECEPTACLE - WASHER
- D DENOTES DUPLEX RECEPTACLE - NATURAL GAS DRYER
- GFI RECEPTACLE (GROUND FAULT INTERRUPTER)
- SPLIT RECEPTACLE - MOUNTED ABOVE COUNTER
- VOICE/DATA OUTLET
- VOICE/DATA OUTLET - MOUNTED ABOVE COUNTER
- SPECIAL PURPOSE OUTLET - AS DESCRIBED
- HAND DRYER
- OVERHEAD DOOR OPERATOR
- SINGLE PHASE MOTOR
- DISCONNECT
- LOCAL DISCONNECT
- GROUND PLATE
- BASEBOARD HEATER - TYPE
- FUTURE CARD READER



ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH MECHANICAL DRAWINGS



KEY PLAN
N.T.S.

Department of Fisheries and Oceans Canada
Small Craft Harbours
Central and Arctic Region

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4	RE-ISSUED FOR CONSTRUCTION	JULY 5/17	FG
3	RE-ISSUED FOR CONSTRUCTION	JUN. 26/17	FG
2	RE-ISSUED FOR CONSTRUCTION	JUN. 23/17	FG
1	RE-ISSUED FOR CONSTRUCTION	DEC. 21/16	FG
0	ISSUED FOR CONSTRUCTION	DEC. 16/16	FG
A	ISSUED FOR CLIENT REVIEW	DEC. 13/16	FG
No.	Revision	Date	Initial

Notes:
1. CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING DIMENSIONS AND EXISTING CONDITIONS AT THE OUTSET OF CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER. DO NOT PROCEED WITHOUT FURTHER WRITTEN DIRECTION FROM THE ENGINEER.
2. DRAWING SHOWS GENERAL ARRANGEMENT ONLY. DO NOT SCALE.

Approved	Approved

TBT ENGINEERING CONSULTING GROUP

Thunder Bay Phone: (807) 624-5160
E-mail: info@tbt.ca

SAR BOATHOUSE AND WORKSHOP
GIMLI, MANITOBA

ELECTRICAL
PARTIAL SITE PLAN
ELECTRICAL LEGEND
DETAILS, SINGLE LINE DIAGRAM

Scale:	Drawn By: SN	Date:
AS NOTED	Ckd. By: FG	JULY 2017
	Dwg. No.: 16-336-E1	Rev. 4