

## <ELECTRICAL PARTS LIST>

| CATEGORY | ITEM                                | QTY | DESCRIPTION                                          | MANUFACTURER | MODEL                        |
|----------|-------------------------------------|-----|------------------------------------------------------|--------------|------------------------------|
| SERVICE  | COP                                 | 1   | SEE DETAIL MANUFACTURER'S DRAWING                    | EATON        | CUSTOM                       |
|          | AIS                                 | 1   | 500A, SEE DETAIL MANUFACTURER'S DRAWING              | EATON        | ATC-300, A13M30C208KKC       |
|          | TVSS (SPD)                          | 1   | 200KA, SEE DETAIL MANUFACTURER'S DRAWING             | EATON        | SPD20020B7J                  |
|          | GENSET                              | 1   | 120/208VAC, 3PHASE, 171KVA, 137KW, 475A              | KOHLER       | 150R02JLF, SER3035763        |
|          | GENSET LOAD BANK                    | 1   | 208VAC, 3PHASE, 130KW/W/CONTROL UNIT                 | AVTRON       | LSH150/D940843               |
|          | LOAD BANK DISCONNECT SWITCH         | 1   | 600A, 3PHASE                                         | SQUARE D     | CHU566                       |
|          | MCC                                 | 1   | SEE DETAIL MANUFACTURER'S DRAWING                    | EATON        | CUSTOM                       |
|          | SOFT STARTER                        | 2   | SEE DETAIL MANUFACTURER'S DRAWING                    | EATON        | S811R10N3S                   |
|          | BREAKER PANEL                       | 1   | 120/208VAC, 3P/4W, 200A, 72CCT, WITHOUT MAIN BREAKER | EATON        | EZ2060                       |
|          | INDOOR FLUORESCENT LIGHT (200)      | 4   | FLUORESCENT, WF 32T8, BAKED WHITE ENAMEL             | METALUX      | STW-232-120V-ER81            |
| LIGHTING | INDOOR FLUORESCENT LIGHT (201/ 202) | 24  | FLUORESCENT, WF 32T8, FIBERGLASS HOUSING             | METALUX      | V12-232-LEX-120-ER8-WL       |
|          | OUTDOOR HID LIGHT (HID300)          | 3   | HPS 70W                                              | LUMARK       | WALLY CUTOFF L570C           |
|          | OUTDOOR HID LIGHT (HID301)          | 2   | HPS 70W                                              | LUMARK       | FALCON HPSF70DKTTRSFWG       |
|          | EXITS/EMERGENCY LIGHT               | 3   | 12V 20W MR16, 2-HOUR COMBO                           | BECHTEL      | SL12-180LR1/281NR-12V20WMR16 |
|          | EMERGENCY LIGHT                     | 3   | 12V 20W MR16, 2-HOUR                                 | BECHTEL      | NOVA12-180/281NR-12V20WMR16  |

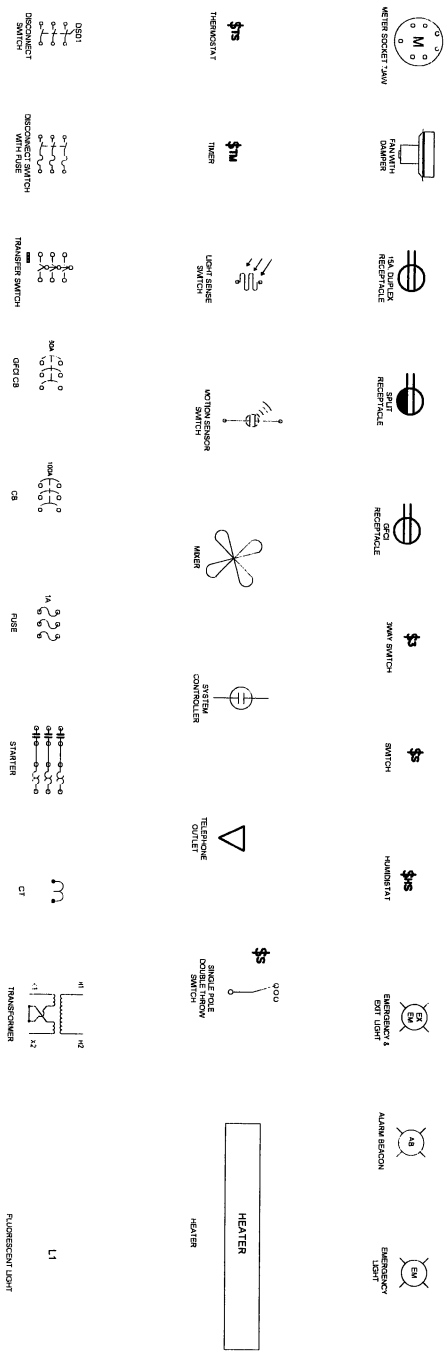
## <DEMAND LOAD CALCULATION>

[illegible]

|         |      |                           |                             |     |   |    |    |       |
|---------|------|---------------------------|-----------------------------|-----|---|----|----|-------|
| 201_202 | E101 | INDOOR FLOODESCENT LIGHT2 | METALUX 51W/220-120V/GR8U   | 120 | 1 | 60 | 15 | 1,200 |
| 201     | E101 | INDOOR FLOODESCENT LIGHT2 | METALUX V12 220-120V/GR8-WL | 120 | 1 | 60 | 15 | 1,040 |
| E02_E03 | E101 | EXIT LIGHT 2X6X8          | STELLA                      | 120 | 1 | 11 | 7  | 20    |
| E04_E05 | E101 | EXIT LIGHT 2X6X8          | STELLA                      | 120 | 1 | 11 | 7  | 20    |
| E06_E07 | E101 | EMERGENCY LIGHT 2X6X8     | NOVATLX-100/200/816         | 120 | 1 | 11 | 7  | 20    |
| E08_E09 | E101 | EMERGENCY LIGHT 2X6X8     | NOVATLX-100/200/816         | 120 | 1 | 11 | 7  | 30    |
| H0300   | E101 | OUTDOOR MID LIGHT2        | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 240   |
| H0300   | E101 | OUTDOOR MID LIGHT2        | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 240   |
| H0300   | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G100    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G101    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G102    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G103    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G104    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G105    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G106    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G107    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G108    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G109    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G110    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G111    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G112    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G113    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G114    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G115    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G116    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G117    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G118    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G119    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G120    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G121    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G122    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G123    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G124    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G125    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G126    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G127    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G128    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G129    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G130    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G131    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G132    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G133    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G134    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G135    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G136    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G137    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G138    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G139    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G140    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150   |
| G141    | E101 | GEN BATTERY CHARGER       | LUMARK 1WAL/CUTOFF          | 120 | 1 | 60 | 7  | 150</ |

|                         |                        | S&B TOTAL                            |     | 32.089 |     | -10.095 |  | 111 |  |
|-------------------------|------------------------|--------------------------------------|-----|--------|-----|---------|--|-----|--|
| EMCS<br>MOTION<br>PANEL | P-3.1/U.2/3            | WELL-CLAMP, 800' YIELD F-20          | 120 | 100    | 3   | 89      |  |     |  |
|                         | TELEMAN CONTROLLER     | 268.132 AND 132                      | 120 | 5      | 600 | 1       |  |     |  |
|                         | WFO (P-5.1)            | GROUNDING UNITS-549                  | 120 | 6      | 1   | 5       |  |     |  |
|                         | OH-1/U.2/3/1-4/1 5/1 6 | TRAINING LABS-971-1100A00A           | 120 | 1      | 48  | 6       |  |     |  |
|                         | WFO                    | UNIT W/HEAR                          | 120 | 1      | 10  | 10      |  |     |  |
| EMCS<br>PANEL           | WFO                    | ACTUATION                            | 120 | 1      | 10  | 10      |  |     |  |
|                         | WFO                    | MANU-TO-TELECONTROL (MAN TO SHIP)    | 120 | 5.8    | 1   | 11.25   |  |     |  |
|                         | WFO                    | MANU-TO-LOCAL CONTROL (MAN TO SHIP)  | 120 | 1      | 128 | 1       |  |     |  |
|                         | WFO                    | LOCAL CONTROL (LOCAL TO SHIP)        | 120 | 1      | 1   | 120     |  |     |  |
|                         | WFO                    | CONTROL ROOM (LOCAL TO SHIP)         | 120 | 1      | 1   | 120     |  |     |  |
| EMCS<br>P-4.5           | WFO                    | GROUND FILL PUMP                     | 120 | 1      | 150 | 1       |  |     |  |
|                         | S&B TOTAL              |                                      |     |        |     | 8       |  |     |  |
|                         | WFO                    | BOILER CONTROL PUMP (B&HP)           | 208 | 2.5    | 3   | 2.02    |  |     |  |
|                         | WFO                    | PRIMARY REFRIG. PUMP (L. SHIP WFO)   | 208 | 4.25   | 1   | 1.459   |  |     |  |
|                         | WFO                    | SECONDARY REFRIG. PUMP (L. SHIP WFO) | 208 | 2.25   | 3   | 981     |  |     |  |
| EMCS<br>MOTION<br>PANEL | P-4.3/U.4              | FUEL OIL TOWNSHIP PUMP               | 208 | 2.75   | 2   | 1.881   |  |     |  |
|                         | P-2.1/2.2              | WIKING                               | 208 | 7.5    | 2   | 1.955   |  |     |  |
|                         | P-4.4                  | DOMESTIC WATER PUMP (L. SHIP)        | 120 | 4.2    | 1   | 504     |  |     |  |
|                         | P-4.1/4.2              | FOULDS-AQUA-005011.04821095          | 120 | 2.66   | 1   | 688     |  |     |  |
|                         | WFO                    | TR-1 INJECTION PUMP (L. SHIP)        | 120 | 319    | 2   | 504     |  |     |  |
| S&B TOTAL               |                        |                                      |     |        |     | 10.229  |  |     |  |
|                         |                        |                                      |     |        |     | 28      |  |     |  |
|                         |                        |                                      |     |        |     | 36      |  |     |  |
|                         |                        |                                      |     |        |     | 12.011  |  |     |  |
|                         |                        |                                      |     |        |     | 36      |  |     |  |

## &lt;ELECTRICAL LIBRARY&gt;



**BI Pure Water  
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## AS BUILT

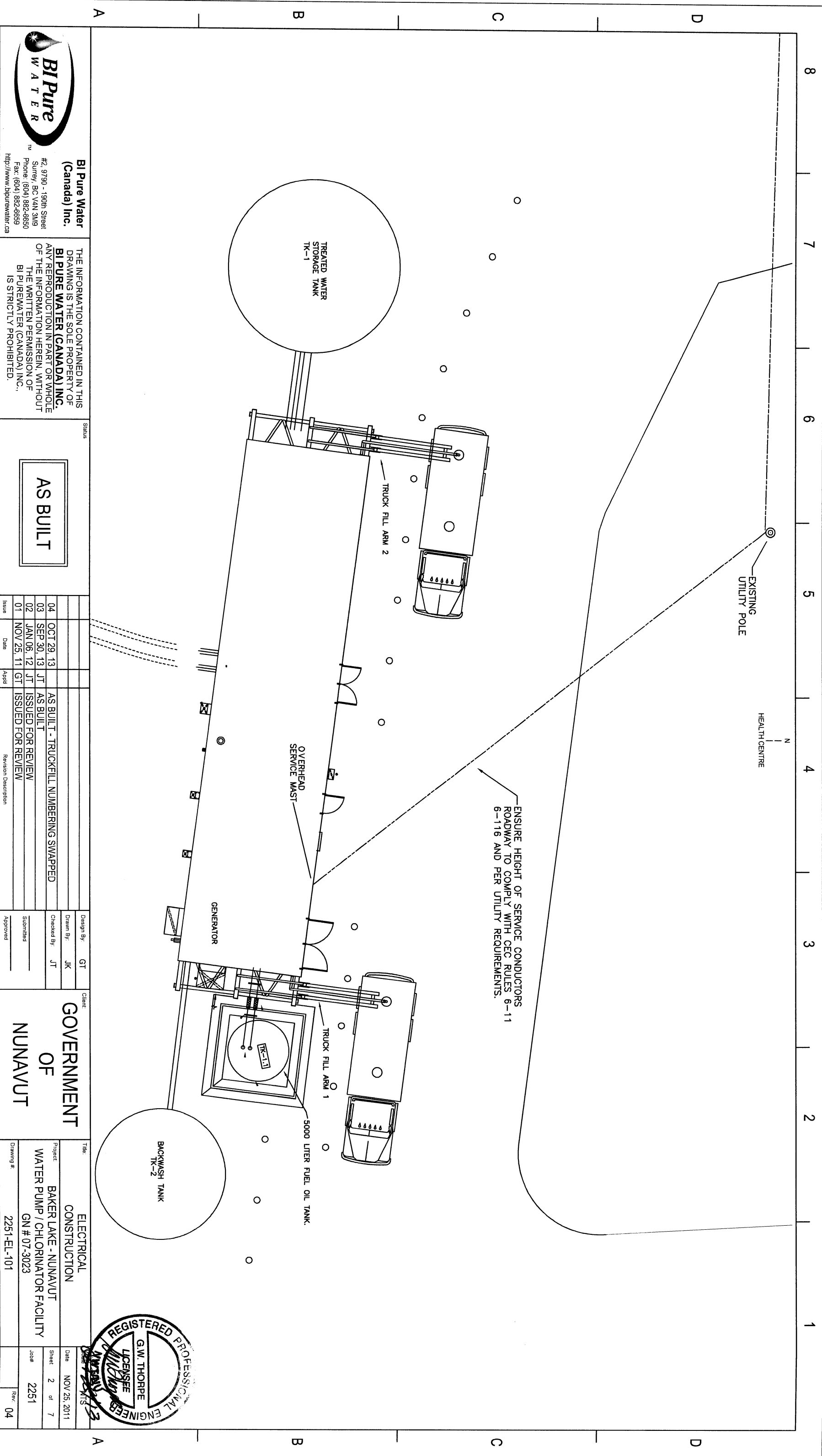
|       |             |       |                                        |             |    |
|-------|-------------|-------|----------------------------------------|-------------|----|
|       |             |       |                                        | Design By   | GT |
|       |             |       |                                        | Drawn By    | JK |
|       |             |       |                                        | Checked By: | JT |
| 04    | OCT 29, '13 |       | AS BUILT - TRUCKFILL NUMBERING SWAPPED | Submitted   |    |
| 03    | SEP 30, '13 | JT    | AS BUILT                               |             |    |
| 02    | JAN 06, '12 | JT    | ISSUED FOR REVIEW                      |             |    |
| 01    | NOV 25, '11 | GT    | ISSUED FOR REVIEW                      |             |    |
| Issue | Date        | App'd | Revision Description                   | Approved    |    |

Client: **GOVERNMENT  
OF  
NUNAVUT**

|           |                                                                           |
|-----------|---------------------------------------------------------------------------|
| Title     | ELECTRICAL<br>CONSTRUCTION                                                |
| Project   | BAKER LAKE - NUNAVUT<br>WATER PUMP / CHLORINATOR FACILITY<br>GN # 07-3023 |
| Drawing # | 0054-ET-404                                                               |

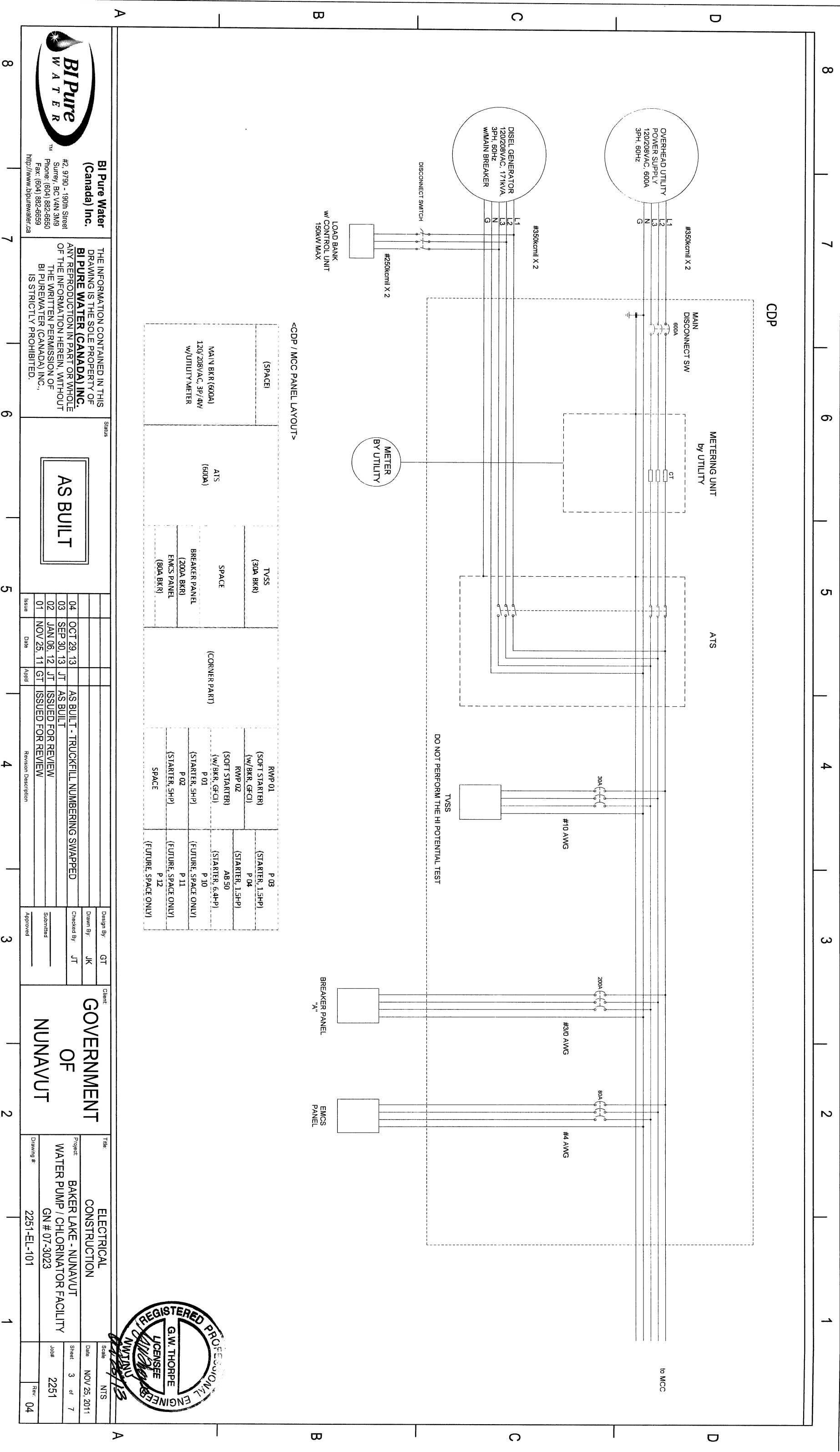
|       |              |
|-------|--------------|
| Scale | NTS          |
| Date  | NOV 25, 2011 |
| Sheet | 1 of 7       |
| Job#  | 2251         |
| Rev.  | 04           |





|                                                                                                                                                                    |            |                                                                                                                                                                                                                                                          |                                        |              |                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------|-----------------------------|
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| Issue                                                                                                                                                              | Date       | App'd                                                                                                                                                                                                                                                    | Revision Description                   | Design By    | Client                      |
| 04                                                                                                                                                                 | OCT 29, 13 | JT                                                                                                                                                                                                                                                       | AS BUILT - TRUCKFILL NUMBERING SWAPPED | GT           | GOVERNMENT<br>OF<br>NUNAVUT |
| 03                                                                                                                                                                 | SEP 30, 13 | JT                                                                                                                                                                                                                                                       | AS BUILT                               | JK           |                             |
| 02                                                                                                                                                                 | JAN 06, 12 | JT                                                                                                                                                                                                                                                       | ISSUED FOR REVIEW                      | JK           |                             |
| 01                                                                                                                                                                 | NOV 25, 11 | GT                                                                                                                                                                                                                                                       | ISSUED FOR REVIEW                      | JK           |                             |
|                                                                                                                                                                    |            |                                                                                                                                                                                                                                                          |                                        |              |                             |
| Project: BAKER LAKE - NUNAVUT WATER PUMP / CHLORINATOR FACILITY                                                                                                    |            | Title: ELECTRICAL CONSTRUCTION                                                                                                                                                                                                                           |                                        | Drawn By: JT | GN # 07-3023                |
| Job #: 2251                                                                                                                                                        |            | Date: NOV 25, 2011                                                                                                                                                                                                                                       |                                        | Submitted    |                             |
| Drawing #: 2251-EL-101                                                                                                                                             |            | Rev: 04                                                                                                                                                                                                                                                  |                                        | Approved     |                             |





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| 01 | NOV 25, 11 | GT | ISSUED FOR REVIEW                      |
| 02 | JAN 06, 12 | JT | ISSUED FOR REVIEW                      |
| 03 | SEP 30, 13 | JT | AS BUILT                               |
| 04 | OCT 29, 13 |    | AS BUILT - TRUCKFILL NUMBERING SWAPPED |

Design By: GT  
Drawn By: JK  
Checked By: JT  
Submitted: \_\_\_\_\_  
Approved: \_\_\_\_\_

Client: **GOVERNMENT OF NUNAVUT**

Title: **ELECTRICAL CONSTRUCTION**

Project: **BAKER LAKE - NUNAVUT WATER PUMP / CHLORINATOR FACILITY**

Drawing #: **2251-EL-101**

Scale: **NTS**

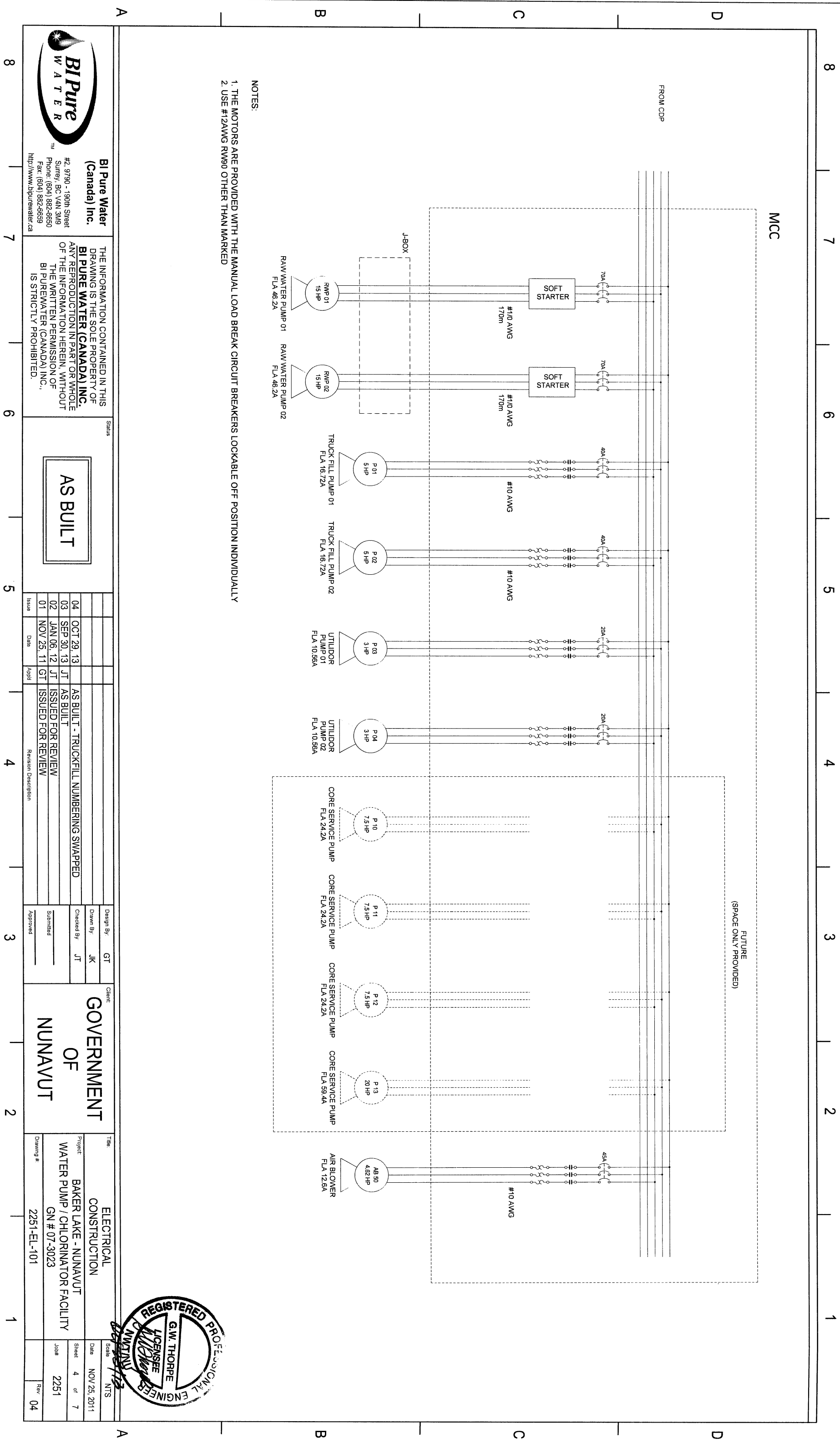
Date: **NOV 25, 2011**

Sheet: **3 of 7**

Job #: **2251**

Rev: **04**





- NOTES:
- 1. THE MOTORS ARE PROVIDED WITH THE MANUAL LOAD BREAK CIRCUIT BREAKERS LOCKABLE OFF POSITION INDIVIDUALLY
  - 2. USE #12AWG RWM90 OTHER THAN MARKED



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| 03    | SEP 30, 13 | JT    | AS BUILT - TRUCKFILL NUMBERING SWAPPED |
| 04    | OCT 29, 13 | GT    | AS BUILT                               |

Design By: GT  
Drawn By: JK  
Checked By: JT  
Submitted: \_\_\_\_\_  
Approved: \_\_\_\_\_

Client: **GOVERNMENT OF NUNAVUT**

Title: **ELECTRICAL CONSTRUCTION**

Project: **BAKER LAKE - NUNAVUT WATER PUMP / CHLORINATOR FACILITY**

Drawing #: **2251-EL-101**

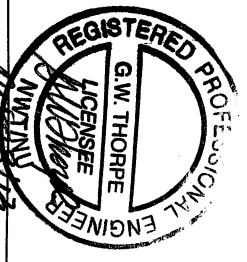
Scale: **NTS**

Date: **NOV 25, 2011**

Sheet: **4 of 7**

Job#: **2251**

Rev: **04**



8

7

6

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4

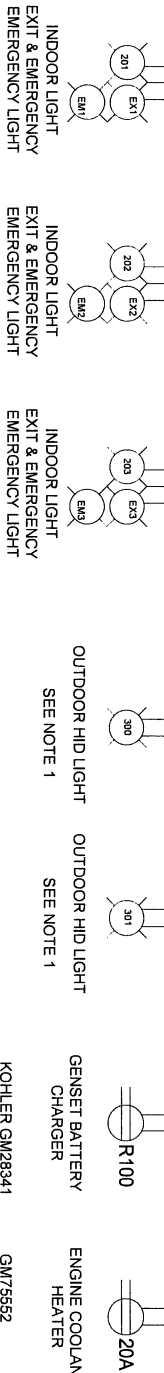
3

2

1

BREAKER PANEL "A"

<BREAKER PANEL SCHEDULE>



NOTES:

1. OUTDOOR HID LIGHTS ARE CONTROLLED BY LIGHT SENSOR
2. ALL NON ELECTRICAL METAL FRAMES AND PARTS ARE BONDED TO GROUND USING #6 AWG COPPER BONDING CONDUCTOR
3. PHASES ARE BY THE CIRCUIT NUMBERS NOT BY THE DRAWING
4. USE #12AWG RWM90 OTHER THAN MARKED

PANEL "A" - 120/208VAC, 3PHASE, 60Hz, 200A

|    |                                  |    |                                    |
|----|----------------------------------|----|------------------------------------|
| 1  | INDOOR FLUORESCENT LIGHT (201)   | 2  | EMCS PANEL (20A)                   |
| 3  | EXIT & EMERGENCY LIGHT (EX/EM1)  | 4  | PLC PANEL (20A)                    |
| 5  | INDOOR FLUORESCENT LIGHT (202)   | 6  |                                    |
| 7  | EXIT & EMERGENCY LIGHT (EX/EM2)  | 8  | UV 01                              |
| 9  | INDOOR FLUORESCENT LIGHT (203)   | 10 |                                    |
| 11 | EXIT & EMERGENCY LIGHT (EX/EM3)  | 12 | UV 02                              |
| 13 | OUTDOOR HID (300)-TRUCK FILL Arm | 14 |                                    |
| 15 | OUTDOOR HID (301)                | 16 | SUMP PUMP 01 (P20)                 |
| 17 | GENSET BATTERY CHARGER R100      | 18 | SUMP PUMP 02 (P21)                 |
| 19 | ENGINE COOLANT HEATER (20A)      | 20 | CHLORINE MIXER (MX01) (G)          |
| 21 |                                  | 22 | HEAT TRACE CONTROLLER #1 (40A)     |
| 23 |                                  | 24 |                                    |
| 25 | GENERAL RECEPTACLE R101          | 26 | HEAT TRACE CONTROLLER #2 (40A)     |
| 27 | GENERAL RECEPTACLE R102          | 28 |                                    |
| 29 | GENERAL RECEPTACLE R103          | 30 |                                    |
| 31 | GENERAL RECEPTACLE R104          | 32 | OUTDOOR RECTIPACLE R202 (G)        |
| 33 | GENERAL RECEPTACLE R105          | 34 | OUTDOOR RECTIPACLE R203 (G)        |
| 35 | GENERAL RECEPTACLE R106          | 36 | OUTDOOR RECTIPACLE R201 (G)        |
| 37 | GENERAL RECEPTACLE R107          | 38 |                                    |
| 39 | GENERAL RECEPTACLE R108          | 40 |                                    |
| 41 | GENERAL RECEPTACLE R109          | 42 |                                    |
| 43 | LOAD BANK HEATER                 | 44 | SANIPLUS PUMP (P-1.3)              |
| 45 | LOAD BANK CONTROLLER             | 46 |                                    |
| 47 |                                  | 48 |                                    |
| 49 |                                  | 50 |                                    |
| 51 |                                  | 52 | DOMESTIC HOT WATER HEATER (DWH-01) |
| 53 |                                  | 54 |                                    |
| 55 |                                  | 56 |                                    |
| 57 |                                  | 58 |                                    |
| 59 | SPARE                            | 60 |                                    |
| 61 | SPARE                            | 62 | SPARE                              |
| 63 | SPARE                            | 64 | SPARE                              |
| 65 | SPARE                            | 66 | SPARE                              |
| 67 | SPARE                            | 68 | SPARE                              |
| 69 | SPARE                            | 70 | SPARE                              |
| 71 | SPARE                            | 72 | SPARE                              |

\* USE 15A BREAKER OTHER THAN MARKED, G/GFCI BREAKER



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|-------|------------|------|----------------------------------------|
| Issue | Date       | Appd | Revision Description                   |
| 04    | OCT 29, 13 |      | AS BUILT - TRUCKFILL NUMBERING SWAPPED |
| 03    | SEP 30, 13 | JT   | AS BUILT                               |
| 02    | MAY 30, 12 | JT   | ISSUED FOR REVIEW                      |
| 01    | NOV 25, 11 | GT   | ISSUED FOR REVIEW                      |

Design By: GT

Drawn By: JK

Checked By: JT

Submitted

Approved

Client: **GOVERNMENT OF NUNAVUT**

Title: **ELECTRICAL CONSTRUCTION**

Project: **BAKER LAKE - NUNAVUT WATER PUMP / CHLORINATOR FACILITY**

Drawing #: **2251-EL-101**

Scale: **Nov 25, 2011**

Sheet **5** of **7**

Job#: **2251**

Rev: **04**

A

B

C

D

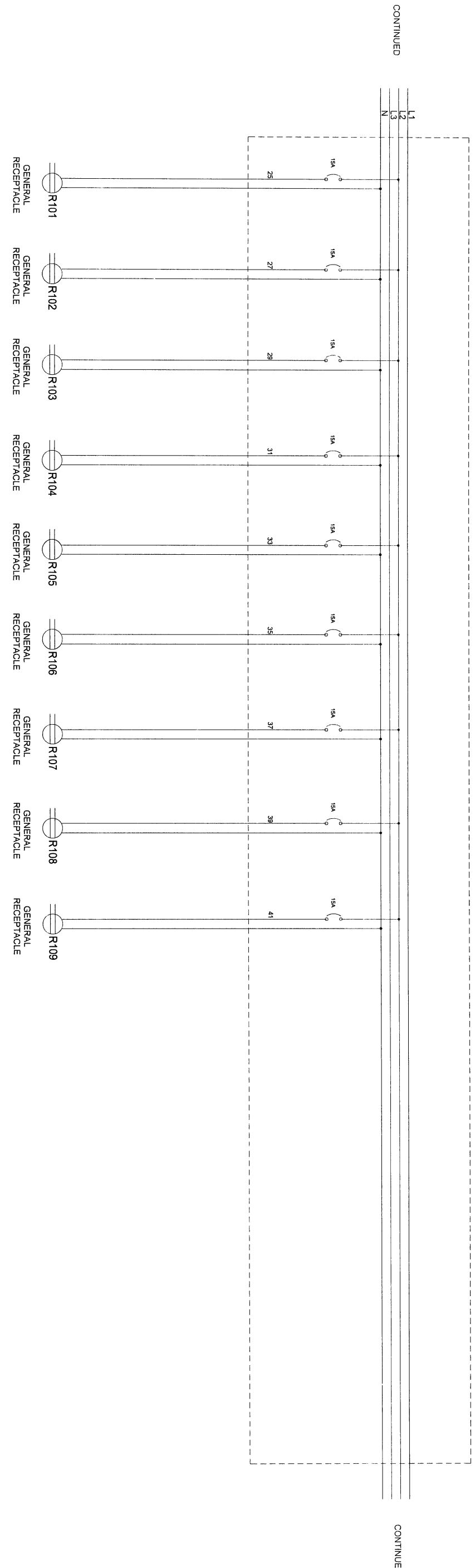
B

C

D

8 7 6 5 4 3 2 1

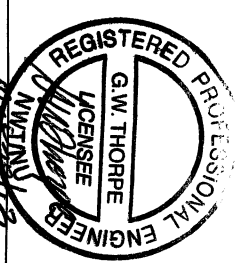
BREAKER PANEL "A"



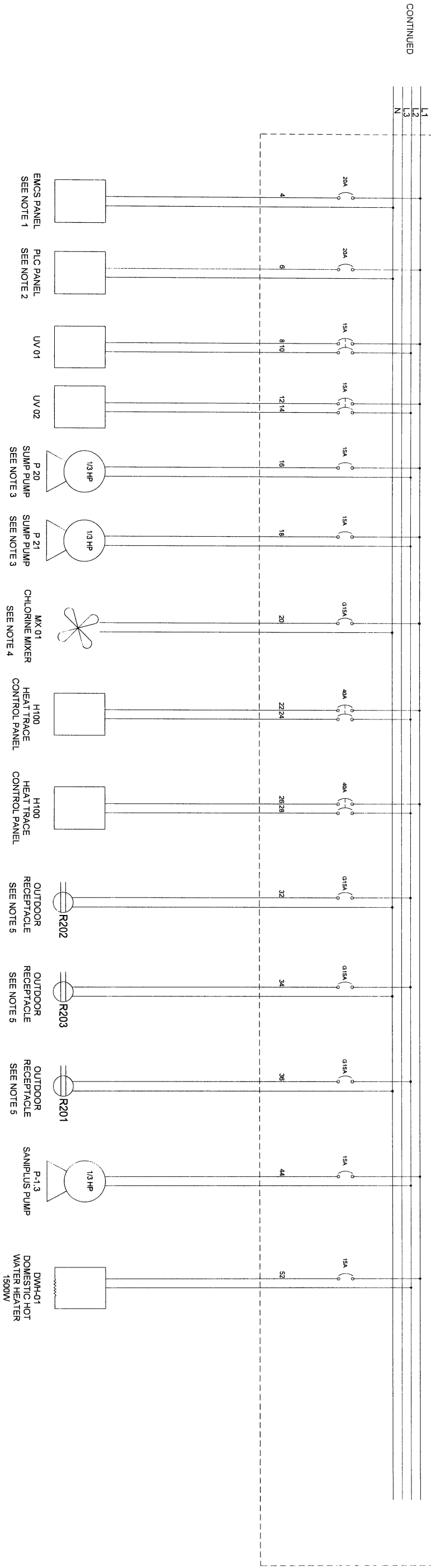
- NOTES:
- 1. OUTSIDE RECEPTACLES ARE PROTECTED BY GFCI BREAKERS
  - 2. THE RECEPTACLES IN WATER TREATMENT ROOM ARE GFCI PROTECTED OTHER THAN POWERED BY PLC CONTROL PANEL.
  - 3. ALL NON ELECTRICAL METAL FRAMES AND PARTS ARE BONDED TO GROUND USING #6 AWG COPPER BONDING CONDUCTOR
  - 4. PHASES ARE BY THE CIRCUIT NUMBERS NOT BY THE DRAWING
  - 5. USE #12AWG RWM0 OTHER THAN MARKED

|                                                                                                                                                                    |  |                                    |  |                                                                                                                                                                                                                                                          |  |        |  |               |  |                                        |  |                                |  |                                                                              |  |                    |  |              |  |           |  |        |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------|--|---------------|--|----------------------------------------|--|--------------------------------|--|------------------------------------------------------------------------------|--|--------------------|--|--------------|--|-----------|--|--------|--|
|                                                                                                                                                                    |  | <b>BI Pure Water (Canada) Inc.</b> |  | THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF <b>BI PURE WATER (CANADA) INC.</b> ANY REPRODUCTION IN PART OR WHOLE OF THE INFORMATION HEREIN, WITHOUT THE WRITTEN PERMISSION OF BI PURE WATER (CANADA) INC., IS STRICTLY PROHIBITED. |  | Status |  | Design By: GT |  | Client: GOVERNMENT OF NUNAVUT          |  | Title: ELECTRICAL CONSTRUCTION |  | Project: BAKER LAKE - NUNAVUT WATER PUMP / CHLORINATOR FACILITY GN # 07-3023 |  | Date: NOV 25, 2011 |  | Sheet 6 of 7 |  | Job# 2251 |  | Rev 04 |  |
| #2, 9790 - 190th Street<br>Surrey, BC V4N 3M9<br>Phone: (604) 882-8550<br>Fax: (604) 882-8559<br><a href="http://www.bipurewater.ca">http://www.bipurewater.ca</a> |  |                                    |  |                                                                                                                                                                                                                                                          |  |        |  | Drawn By: JK  |  |                                        |  |                                |  | Checked By: JT                                                               |  |                    |  |              |  |           |  |        |  |
|                                                                                                                                                                    |  |                                    |  |                                                                                                                                                                                                                                                          |  |        |  | 04 OCT 29, 13 |  | AS BUILT - TRUCKFILL NUMBERING SWAPPED |  |                                |  |                                                                              |  |                    |  |              |  |           |  |        |  |
|                                                                                                                                                                    |  |                                    |  |                                                                                                                                                                                                                                                          |  |        |  | 03 SEP 30, 13 |  | JT AS BUILT                            |  |                                |  |                                                                              |  |                    |  |              |  |           |  |        |  |
|                                                                                                                                                                    |  |                                    |  |                                                                                                                                                                                                                                                          |  |        |  | 02 JAN 06, 12 |  | JT ISSUED FOR REVIEW                   |  |                                |  |                                                                              |  |                    |  |              |  |           |  |        |  |
|                                                                                                                                                                    |  |                                    |  |                                                                                                                                                                                                                                                          |  |        |  | 01 NOV 25, 11 |  | GT ISSUED FOR REVIEW                   |  |                                |  |                                                                              |  |                    |  |              |  |           |  |        |  |
|                                                                                                                                                                    |  |                                    |  |                                                                                                                                                                                                                                                          |  |        |  | Issue         |  | Date                                   |  | Appd                           |  | Revision Description                                                         |  |                    |  |              |  |           |  |        |  |

8 7 6 5 4 3 2 1



BREAKER PANEL "A"



NOTES:

- 1. SEE DETAIL FOR CS-201 EMCS PANEL DRAWING
- 2. SEE DETAIL FOR CS-101 PLC PANEL DRAWING
- 3. SUMP PUMPS ARE CONTROLLED BY INTEGRATED LEVEL SWITCHES
- 4. CHLORINE MIXER IS PROTECTED BY GFCI BREAKER
- 5. OUTDOOR RECEPTACLES ARE PROTECTED BY GFCI BREAKER
- 6. ALL NON ELECTRICAL METAL FRAMES AND PARTS ARE BONDED TO GROUND USING #6 AWG COPPER BONDING CONDUCTOR
- 7. PHASES ARE BY THE CIRCUIT NUMBERS NOT BY THE DRAWING
- 8. USE #12AWG RW90 OTHER THAN MARKED

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|-------------|------------|------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------|------|------|----------------------|----|------------|----|----------------------------------------|----|------------|----|----------|----|------------|----|-------------------|----|------------|----|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|----|-----------|----|-------------|----|-----------|--|----------|--|----------------------------------------|--|-----------------------------------------|--|--------------------------------------------------------------------------|--|-----------------------------|--|------------------------|--|---------------------|--|------------------|--|
| Issue       | Date       | Appd                               | Revision Description                   |                                                                                                                                                                                                                                                        |  |                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |       |      |      |                      |    |            |    |                                        |    |            |    |          |    |            |    |                   |    |            |    |                   |                                                                                                                                                                                                                                           |  |            |    |           |    |             |    |           |  |          |  |                                        |  |                                         |  |                                                                          |  |                             |  |                        |  |                     |  |                  |  |
| 04          | OCT 29, 13 | JT                                 | AS BUILT - TRUCKFILL NUMBERING SWAPPED |                                                                                                                                                                                                                                                        |  |                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |       |      |      |                      |    |            |    |                                        |    |            |    |          |    |            |    |                   |    |            |    |                   |                                                                                                                                                                                                                                           |  |            |    |           |    |             |    |           |  |          |  |                                        |  |                                         |  |                                                                          |  |                             |  |                        |  |                     |  |                  |  |
| 03          | SEP 30, 13 | JT                                 | AS BUILT                               |                                                                                                                                                                                                                                                        |  |                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |       |      |      |                      |    |            |    |                                        |    |            |    |          |    |            |    |                   |    |            |    |                   |                                                                                                                                                                                                                                           |  |            |    |           |    |             |    |           |  |          |  |                                        |  |                                         |  |                                                                          |  |                             |  |                        |  |                     |  |                  |  |
| 02          | JAN 06, 12 | JT                                 | ISSUED FOR REVIEW                      |                                                                                                                                                                                                                                                        |  |                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |       |      |      |                      |    |            |    |                                        |    |            |    |          |    |            |    |                   |    |            |    |                   |                                                                                                                                                                                                                                           |  |            |    |           |    |             |    |           |  |          |  |                                        |  |                                         |  |                                                                          |  |                             |  |                        |  |                     |  |                  |  |
| 01          | NOV 25, 11 | GT                                 | ISSUED FOR REVIEW                      |                                                                                                                                                                                                                                                        |  |                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |       |      |      |                      |    |            |    |                                        |    |            |    |          |    |            |    |                   |    |            |    |                   |                                                                                                                                                                                                                                           |  |            |    |           |    |             |    |           |  |          |  |                                        |  |                                         |  |                                                                          |  |                             |  |                        |  |                     |  |                  |  |
| Design By:  | GT         |                                    |                                        |                                                                                                                                                                                                                                                        |  |                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |       |      |      |                      |    |            |    |                                        |    |            |    |          |    |            |    |                   |    |            |    |                   |                                                                                                                                                                                                                                           |  |            |    |           |    |             |    |           |  |          |  |                                        |  |                                         |  |                                                                          |  |                             |  |                        |  |                     |  |                  |  |
| Drawn By:   | JK         |                                    |                                        |                                                                                                                                                                                                                                                        |  |                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |       |      |      |                      |    |            |    |                                        |    |            |    |          |    |            |    |                   |    |            |    |                   |                                                                                                                                                                                                                                           |  |            |    |           |    |             |    |           |  |          |  |                                        |  |                                         |  |                                                                          |  |                             |  |                        |  |                     |  |                  |  |
| Checked By: | JT         |                                    |                                        |                                                                                                                                                                                                                                                        |  |                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |       |      |      |                      |    |            |    |                                        |    |            |    |          |    |            |    |                   |    |            |    |                   |                                                                                                                                                                                                                                           |  |            |    |           |    |             |    |           |  |          |  |                                        |  |                                         |  |                                                                          |  |                             |  |                        |  |                     |  |                  |  |
| Submitted   |            |                                    |                                        |                                                                                                                                                                                                                                                        |  |                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |       |      |      |                      |    |            |    |                                        |    |            |    |          |    |            |    |                   |    |            |    |                   |                                                                                                                                                                                                                                           |  |            |    |           |    |             |    |           |  |          |  |                                        |  |                                         |  |                                                                          |  |                             |  |                        |  |                     |  |                  |  |
| Approved    |            |                                    |                                        |                                                                                                                                                                                                                                                        |  |                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |       |      |      |                      |    |            |    |                                        |    |            |    |          |    |            |    |                   |    |            |    |                   |                                                                                                                                                                                                                                           |  |            |    |           |    |             |    |           |  |          |  |                                        |  |                                         |  |                                                                          |  |                             |  |                        |  |                     |  |                  |  |

