



Public Works
Government Services
Canada
Ontario Region

Canada

AECOM

GENERAL DRAWINGS

000 COVER SHEET - LIST OF DRAWINGS

MECHANICAL

- 100 DAM GATE - GENERAL ARRANGEMENT VIEWS
- 101 DAM GATE - GENERAL ARRANGEMENT - SECTIONS
- 102 DAM GATE - GATES PLAN & SECTIONS
- 103 DAM GATE - EMBEDDED PARTS - DETAILS
- 104 DAM GATE - GATE HOIST - DETAILS
- 105 DAM GATE - PRIMARY ANCHORS - DETAILS

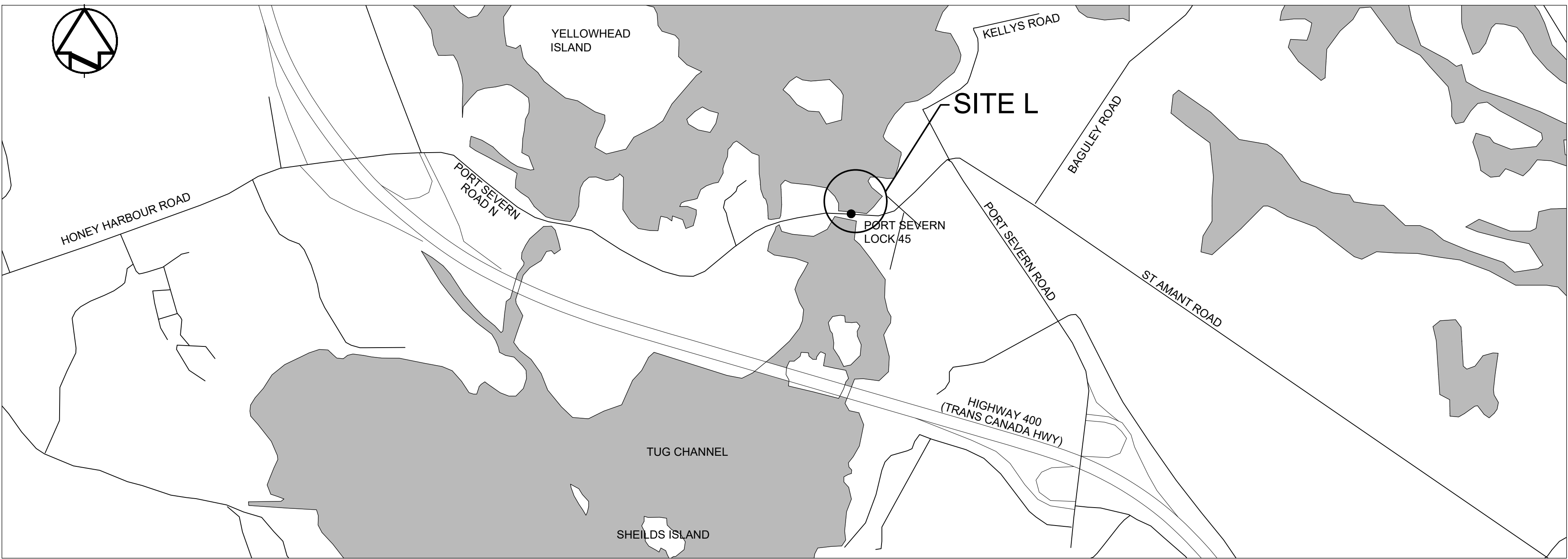
ELECTRICAL

- 200 ELECTRICAL LEGEND
- 201 SINGLE LINE SCHEMATIC - MAIN DAM - GENERAL LAYOUT
- 202 LOCK/CONTROL BUILDING EQUIPMENT LAYOUT
- 203 ELECTRICAL BURIED AND SURFACE GROUNDING
- 204 GATE AND GAIN HEATING
- 205 BASIC DIAGRAM - GATE HOIST CONTROL
- 206 ELECTRICAL CABLE ROUTING - CABLE TRAY/SECTIONS
- 207 600V RECEPTACLES - GROUND FAULT PROTECTION
- 208 ELECTRICAL CABLE SCHEDULE

PORT SEVERN, ONTARIO.
PUBLIC WORKS and GOVERNMENT SERVICES CANADA

Port Severn Area Dams
PWGSC Proj. No.: R.076951.039

Site L – Main Dam Replacement



Canada

SITE PLAN

| | | | |
|-----|-------------------------|--------|------------|
| | | | |
| C | ISSUED FOR TENDER 2020 | S.B. | 2020-07-06 |
| B | ISSUED FOR ADDENDUM | S.B. | 2019-12-03 |
| A | FINAL ISSUED FOR TENDER | S.B. | 2019-10-31 |
| No. | Description | Dwn.By | Date |

| Revision | |
|----------|------------------------|
| A | A Detail number |
| B | B Location dwg. number |

Project title

PORT SEVERN
MAIN DAM
MECHANIZATION

Drawing title

COVER SHEET
LIST OF DRAWINGS

| | |
|--------------------------------|------------------------------------|
| Drawn by K.KANAGASABAI | Designed by S. BONIN & P. AUGER |
| Approved by P. PLACENTINO | Drawing Date 2018-08-30 |
| Project manager J. BIBEAU | |
| File Number PWL-6-39059 | Drawing Number 000 |
| Project Number R.076951.039 | Sheet of |

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 millimetres

NOTES

1- LEVELS SHOWN ARE
IN METERS AND DIMENSIONS IN
MILLIMETERS UNLESS NOTED OTHERWISE.

2- THE MECHANICAL AND ELECTRICAL
EQUIPMENT ARE SHOWN FOR INFORMATION
ONLY. DRAWINGS DO NOT DEFINE THE FINAL
DETAILED DESIGN OF ELEMENTS TO BE
SUPPLIED. THE DIMENSIONS INDICATED BY
"REF" ARE PROVIDED FOR INFORMATION ONLY.
ALL OTHER DIMENSIONS CANNOT BE
MODIFIED.

3- BEFORE FINAL DETAILED DESIGN,
DIMENSIONS SHALL BE VERIFIED ON SITE BY
THE VENDOR.

4- STOPLOGS, UPSTREAM SERVICE GAINS (ALL
SLUICES 1 TO 9) AND LOG LIFTER ARE NOT PART
OF THE MECHANICAL CONTRACT AND ARE
SHOWN FOR INFORMATION ONLY.

5- THE LEVELS INDICATED ON THE DRAWINGS ARE
THE LEVELS OF THE DAM INDICATED ON THE
AS-BUILT DRAWINGS DATED FROM 1918 AND
CONVERTED FROM THE IMPERIAL SYSTEM TO
SI SYSTEM. COORDINATES ARE BASED ON THE
UTM NAD83 (CSRS), ELEVATION (IN METRES)
ARE BASED ON THE CGVD 1928-1978 DATUM.

LEGEND

- BECKED
CONCRETE (SECTION)
CONCRETE (PLAN)
NEW CONCRETE (TOP EL. 181.80)
CHECKERED PLATE

| | | | |
|---|-------------------------|------|------------|
| C | ISSUED FOR TENDER 2020 | S.B. | 2020-07-07 |
| B | ISSUED FOR ADDENDUM | S.B. | 2019-12-03 |
| A | FINAL ISSUED FOR TENDER | S.B. | 2019-10-31 |

| No. | Description | Drawn By Des. Par | Date |
|-----|-------------|----------------------|------|
|-----|-------------|----------------------|------|

Revision / Révision

| | |
|---|---|
| A | A Detail number Numéro du détail |
| B | B Location dwg. number Numéro sur dessin |

NOT FOR CONSTRUCTION



Project title / Titre du projet

PORT SEVERN
MAIN DAM
MECHANIZATION

Drawing title / Titre du dessin

DAM GATE
GENERAL ARRANGEMENT
VIEWS

Drawn by / Dessiné par
B. GIGUÈRE
Designed by / Conçu par
S. BONIN

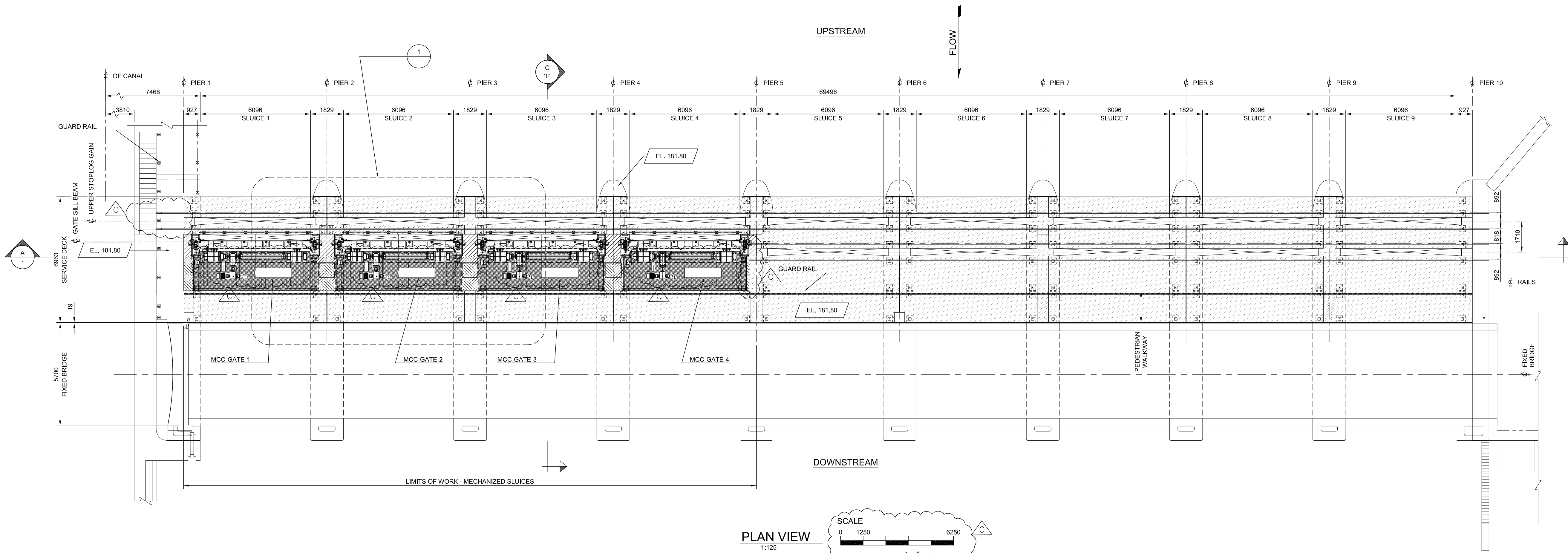
Approved by / Approuvé par
P. PLACENTINO
Drawing Date / Date du dessin
2019-04-16

Project manager / Administrateur de projet
J. BIBEAU

File Number / Numéro du Dossier

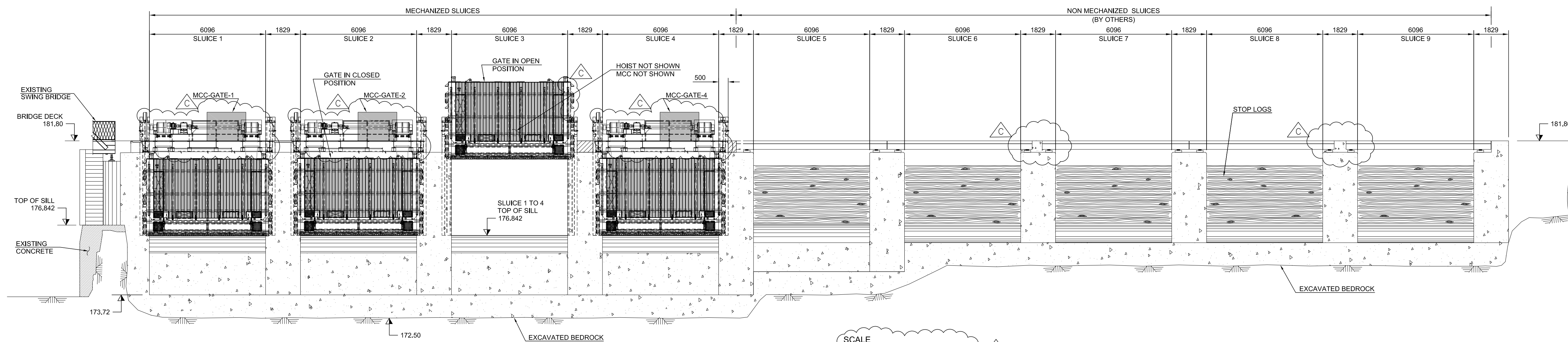
Project Number / Numéro du projet
60522156

Drawing Number/
Numéro du Dessin
100
Sheet
Feuille
of
du



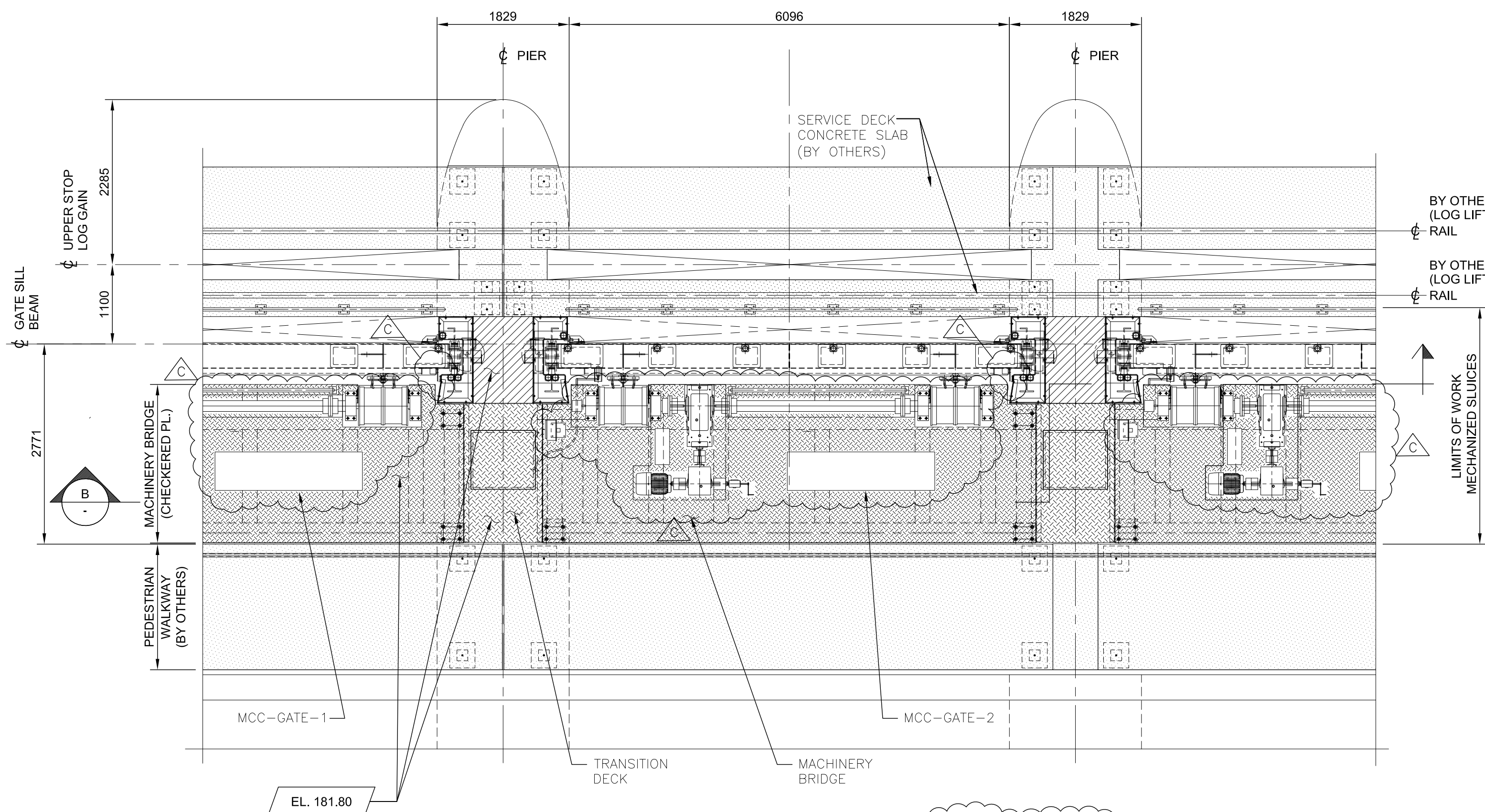
PLAN VIEW
1:125

SCALE
0 1250 6250



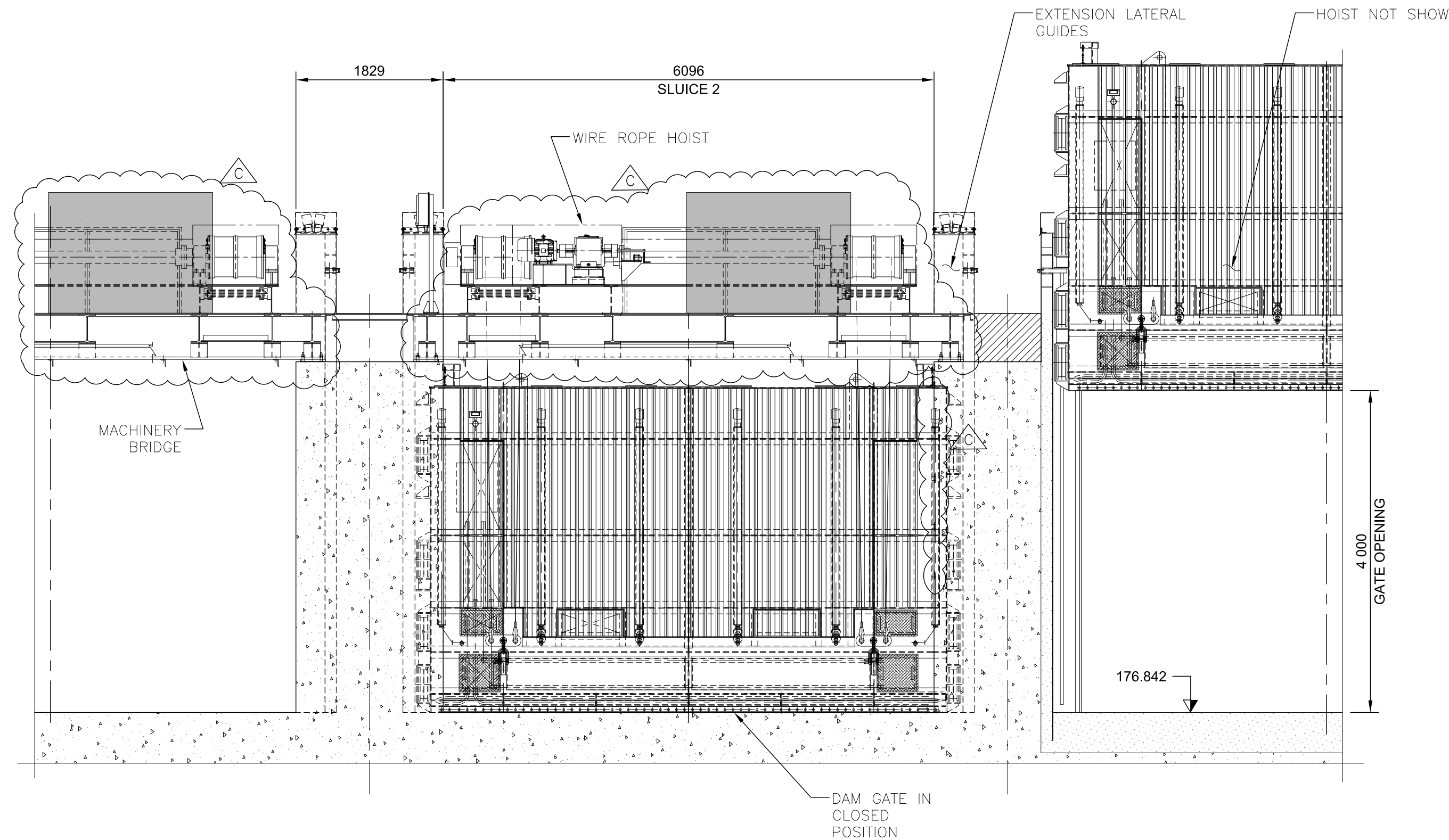
SECTION
1:125

SCALE
0 1250 6250



DETAIL
1:50

SCALE
0 500 2500



SECTION
1:50

SCALE
0 500 2500

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- 3- BEFORE FINAL DETAILED DESIGN, DIMENSIONS SHALL BE VERIFIED ON SITE BY THE VENDOR.
- 4- STRUCTURAL MEMBERS AND HOIST EQUIPMENTS TO BE PAINTED AND GALVANIZED AS PER TECHNICAL SPECIFICATION SECTION 11 50 00.

LEGEND

- BEDROCK
- CONCRETE (SECTION)
- PREFABRICATED CONCRETE (BY OTHERS)

C ISSUED FOR TENDER 2020 S.B. 2020-07-07

B ISSUED FOR ADDENDUM S.B. 2019-12-03

A FINAL ISSUED FOR TENDER S.B. 2019-10-31

No. Description Dwn.By Date

Revision / Révision

- A Detail number
Numéro du détail
- B Location dwg. number
Numéro sur dessin

NOT FOR CONSTRUCTION



Project title / Titre du projet

PORT SEVERN
MAIN DAM
MECHANIZATION

Drawing title / Titre du dessin

DAM GATE
GENERAL ARRANGEMENT
SECTIONS

Drawn by / Dessiné par

B. GIGUÈRE S. BONIN

Approved by / Approuvé par

P. PLACENTINO 2019-04-16

Project manager / Administrateur de projet

J. BIBEAU

File Number / Numéro du Dossier

Drawing Number / Numéro du Dessin

Project Number / Numéro du projet

60522156

101
Sheet
Feuille

NOTES

1- LEVELS SHOWN ARE IN METERS AND DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.

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3- BEFORE FINAL DETAILED DESIGN, DIMENSIONS SHALL BE VERIFIED ON SITE BY THE VENDOR.

4- STEEL CLADDING TO BE PAINTED AS PER TECHNICAL SPECIFICATIONS SECTION 11 50 00.

5- THIS LEVEL INDICATOR SYSTEM IS ONLY SHOWN AS AN EXAMPLE AND THE VENDOR'S SYSTEM SHALL COMPLY WITH TECHNICAL SPECIFICATIONS.

6- LIQUIDTIGHT CONDUIT AND HEATING CABLE ARE SHOWN AS AN EXAMPLE TO HEAT DOWNSTREAM SKIN PLATE AND BOTTOM LIP. THE VENDOR'S HEATING SYSTEM SHALL COMPLY WITH TECHNICAL SPECIFICATIONS.

7- THE DRAINAGE ARRANGEMENT OF THE HEATING TUBE IS SHOWN AS AN EXAMPLE. THE VENDOR'S SYSTEM SHALL COMPLY WITH TECHNICAL SPECIFICATIONS.

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|-----|-------------------------|---------------------|------------|
| C | ISSUED FOR TENDER 2020 | S.B. | 2020-07-07 |
| B | NO REVISION B ISSUED | N/A | N/A |
| A | FINAL ISSUED FOR TENDER | S.B. | 2019-10-31 |
| No. | Description | Drawn By Des.Par | Date |

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|---------------------|---|---|--|
| Revision / Révision | | | |
| A | A | Detail number Numéro du détail | |
| B | B | Location dwg. number Numéro sur dessin | |

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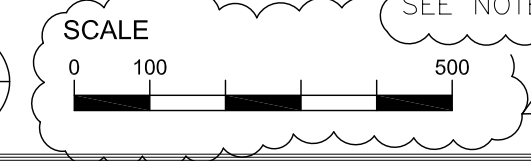
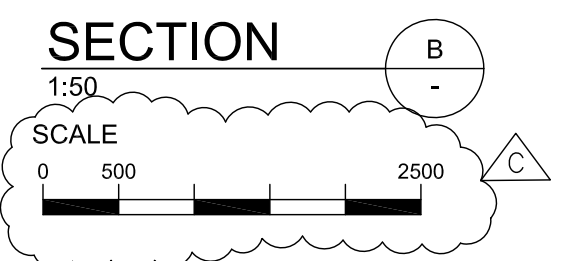
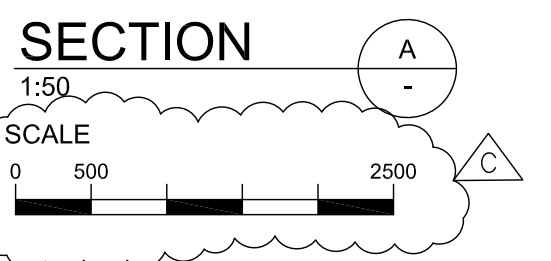
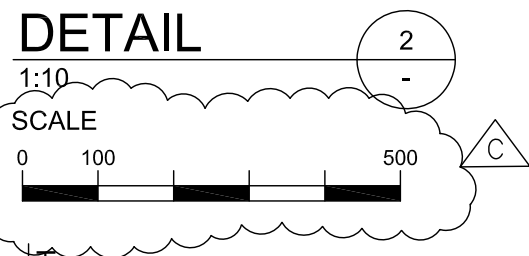
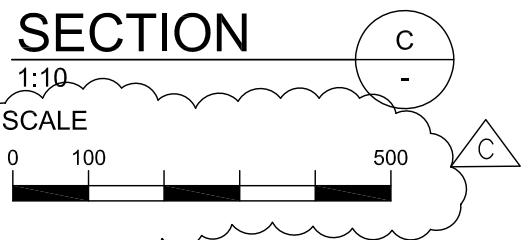
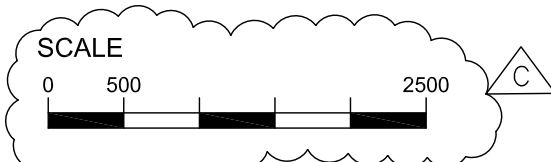
Project title / Titre du projet

PORT SEVERN
MAIN DAM
MECHANIZATION

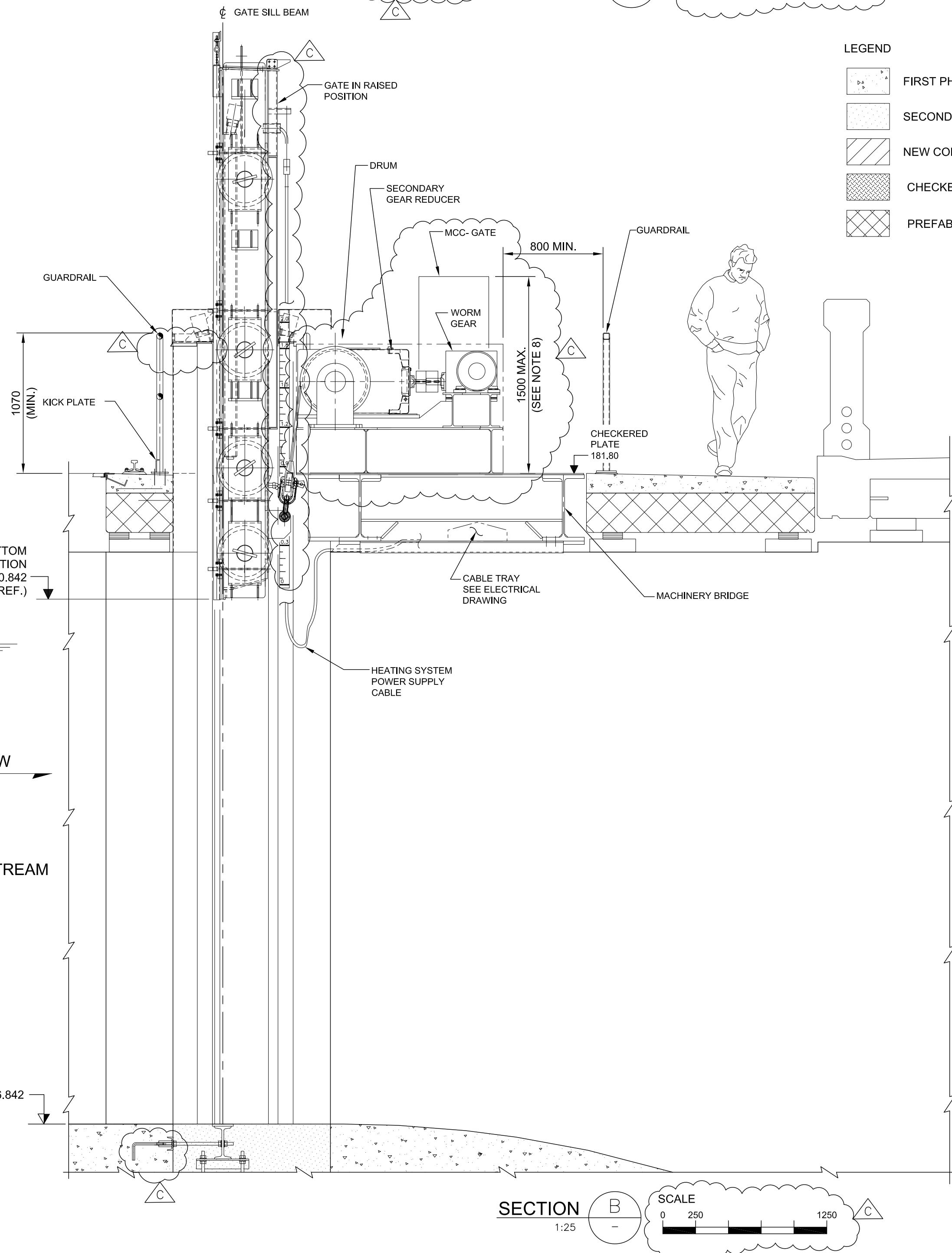
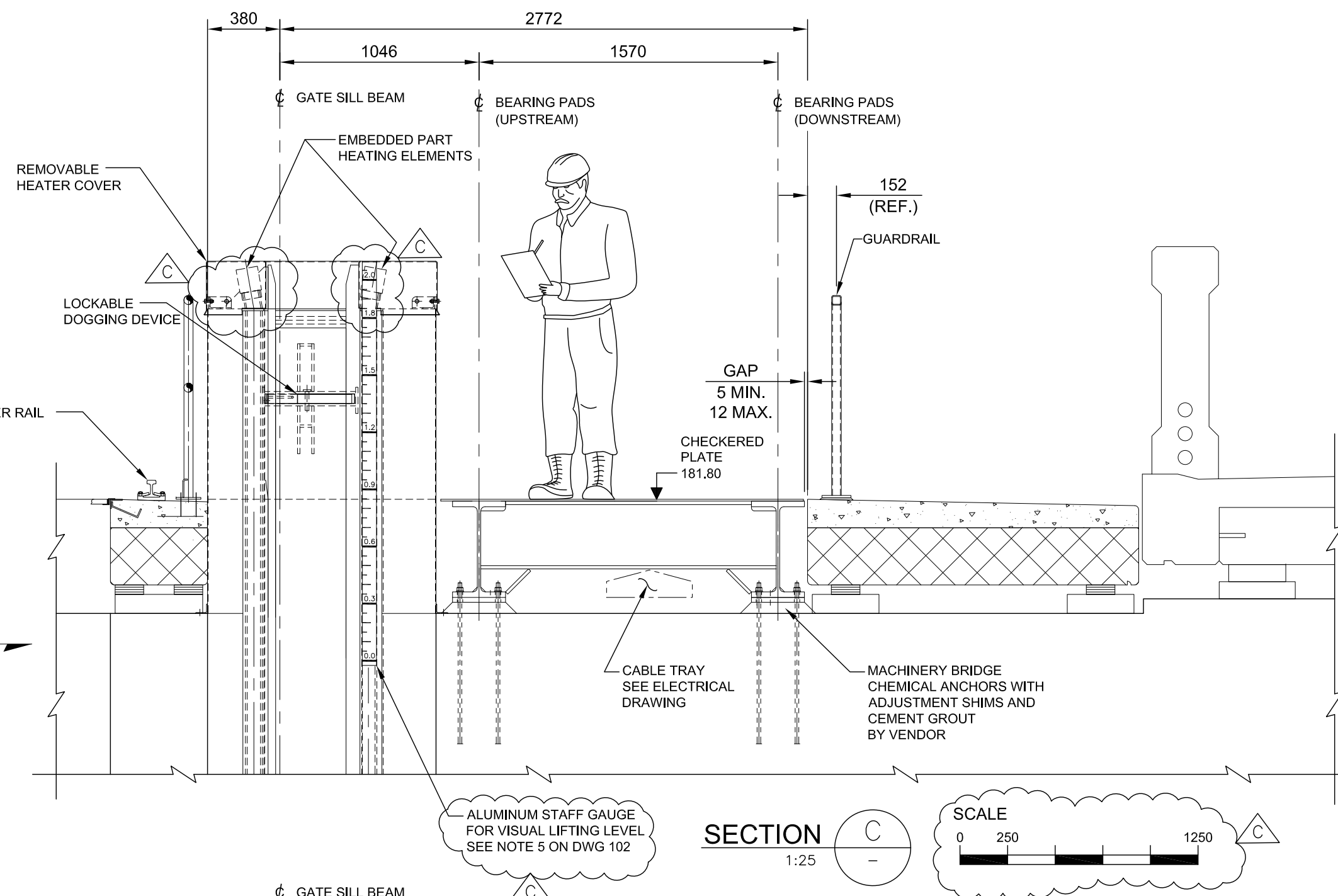
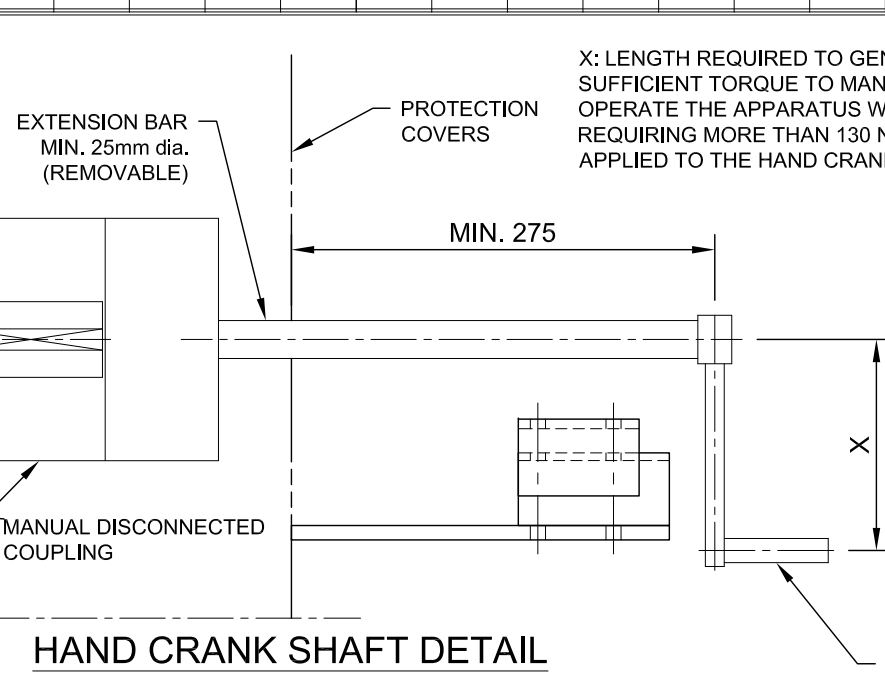
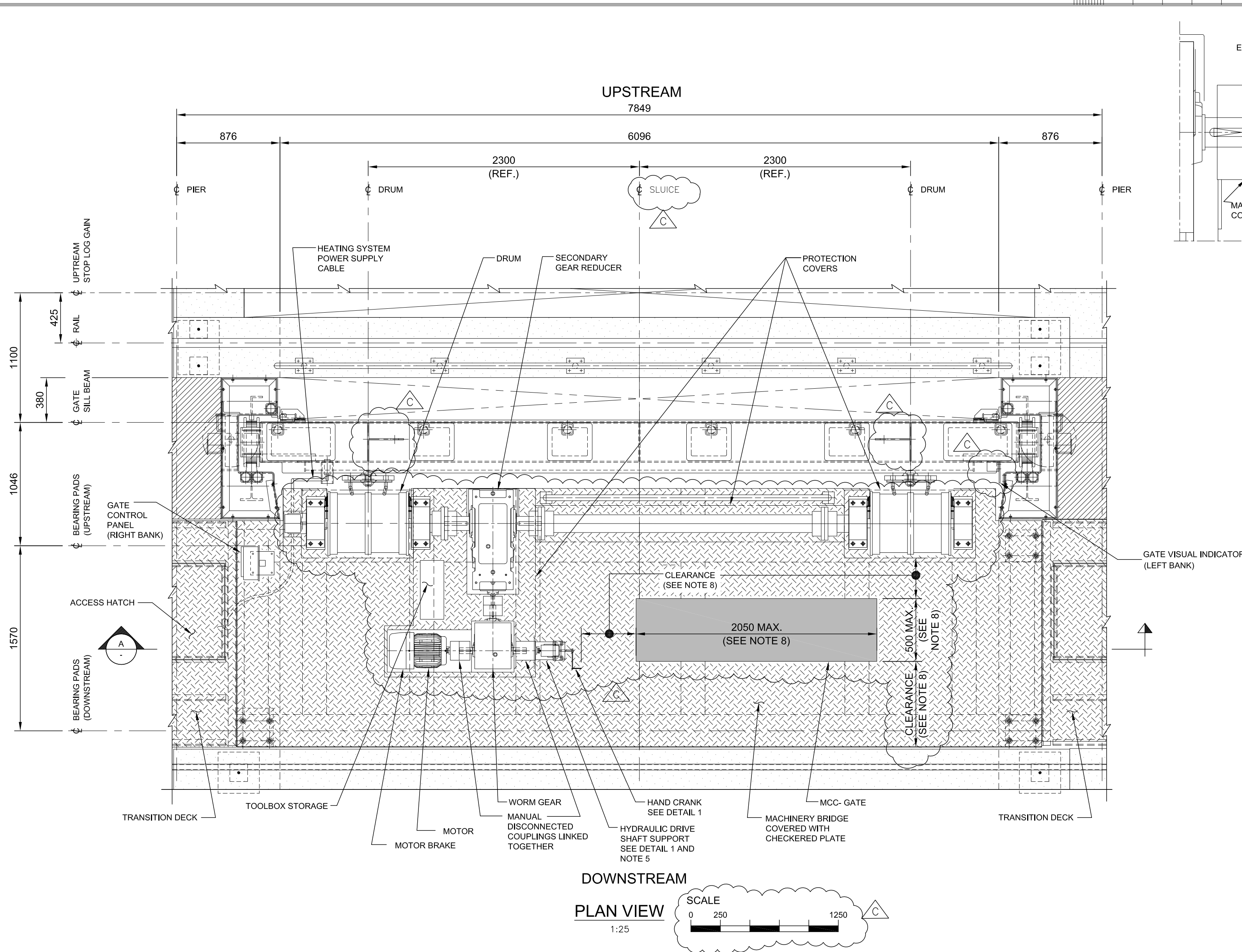
Drawing title / Titre du dessin

DAM GATE
GATES
PLAN & SECTIONS

| | |
|---|---|
| Drawn by / Dessiné par B. GIGUÈRE | Designed by / Conçu par S. BONIN |
| Approved by / Approuvé par P. PLACENTINO | Drawing Date / Date du dessin 2019-04-16 |
| Project manager / Administrateur de projet J. BIBEAU | |
| File Number / Numéro du Dossier | Drawing Number / Numéro du Dessin |
| Project Number / Numéro du projet 60522156 | 102 Sheet Feuille of du |



0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 millimetres



- NOTES
- 1- LEVELS SHOWN ARE IN METERS AND DIMENSIONS IN MILLIMETERS UNLESS NOTED OTHERWISE.
 - 2- THE MECHANICAL AND ELECTRICAL EQUIPMENT ARE SHOWN FOR INFORMATION ONLY. DRAWINGS DO NOT DEFINE THE FINAL DETAILED DESIGN OF ELEMENTS TO BE SUPPLIED. THE DIMENSIONS INDICATED BY "REF" ARE PROVIDED FOR INFORMATION ONLY. ALL OTHER DIMENSIONS CANNOT BE MODIFIED.
 - 3- BEFORE FINAL DETAILED DESIGN, DIMENSIONS SHALL BE VERIFIED ON SITE BY THE VENDOR.
 - 4- STRUCTURAL MEMBERS AND HOIST EQUIPMENT TO BE PAINTED AS PER TECHNICAL SPECIFICATION SECTION 11 50 00.
 - 5- VENDOR SHALL ENSURE THAT HYDRAULIC DRIVE SUPPORT DIMENSIONS ARE COMPATIBLE WITH "Y2K" DEVICE AND ADAPTED TO HOIST ENCLOSURE AND MECHANICAL LAYOUT.
 - 6- THE MACHINERY DECK BEARING PADS SHALL BE POSITIONED AS SHOWN ON CIVIL DRAWINGS.
 - 7- THE LEVELS INDICATED ON THE DRAWINGS ARE THE LEVELS OF THE DAM INDICATED ON THE AS-BUILT DRAWINGS DATED FROM 1918 AND CONVERTED FROM THE IMPERIAL SYSTEM TO SI SYSTEM. COORDINATES ARE BASED ON THE UTM NAD83 (CSRS). ELEVATION (IN METRES) ARE BASED ON THE CGVD 1928-1978 DATUM.
 - 8- THE FINAL POSITION AND SIZE OF THE MCC CABINET SHALL BE OPTIMIZED BY THE VENDOR. CLEARANCES AROUND MCC CABINET SHALL BE MAXIMIZED AND THE MCC CABINET DIMENSIONS SHALL BE MINIMAL. MAXIMUM DIMENSIONS ARE DEFINED IN TECHNICAL SPECIFICATIONS DIVISION 26 00 00.

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| C | ISSUED FOR TENDER 2020 | S.B. | 2020-07-07 |
| B | ISSUED FOR ADDENDUM | S.B. | 2019-12-03 |
| A | FINAL ISSUED FOR TENDER | S.B. | 2019-10-31 |
| No. | Description | Dwn.By Des.Par | Date |

| Revision / Révision | | | |
|---------------------|---|---|--|
| A | A | Detail number Numéro du détail | |
| B | B | Location dwg. number Numéro sur dessin | |

NOT FOR CONSTRUCTION



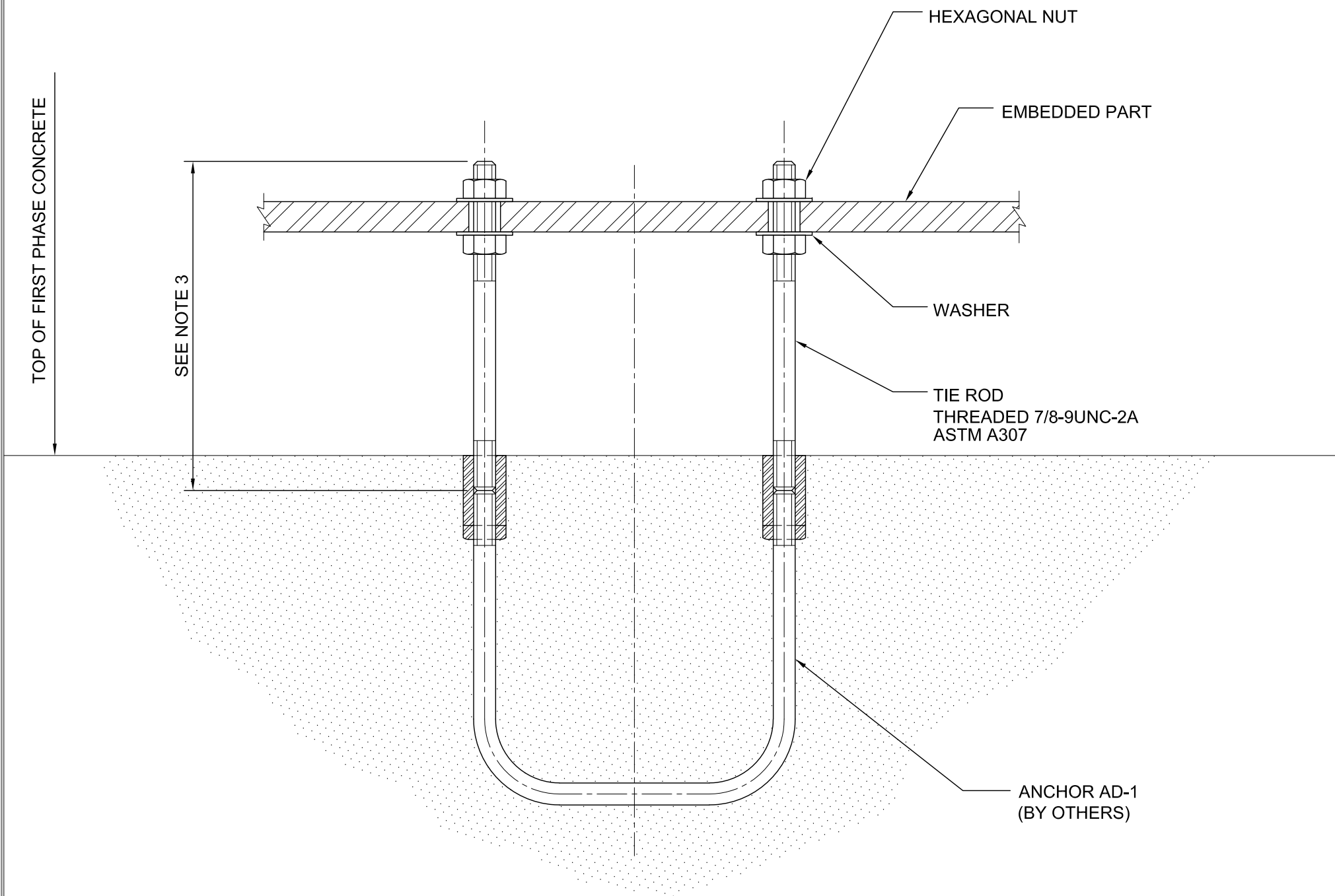
Project title / Titre du projet

PORT SEVERN
MAIN DAM
MECHANIZATION

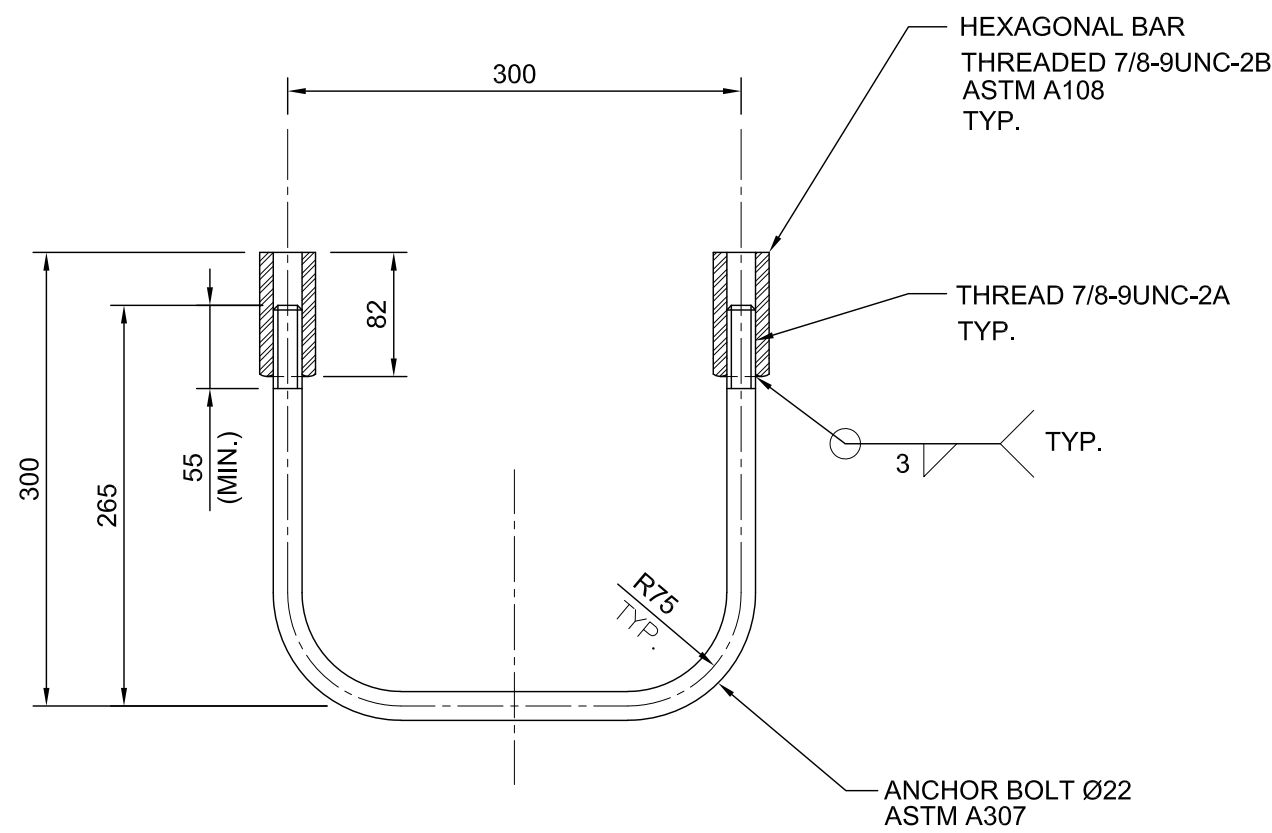
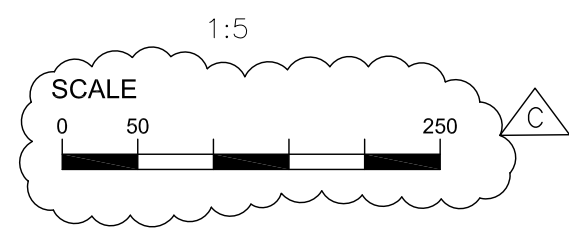
Drawing title / Titre du dessin

DAM GATE
GATE HOIST
DETAILS

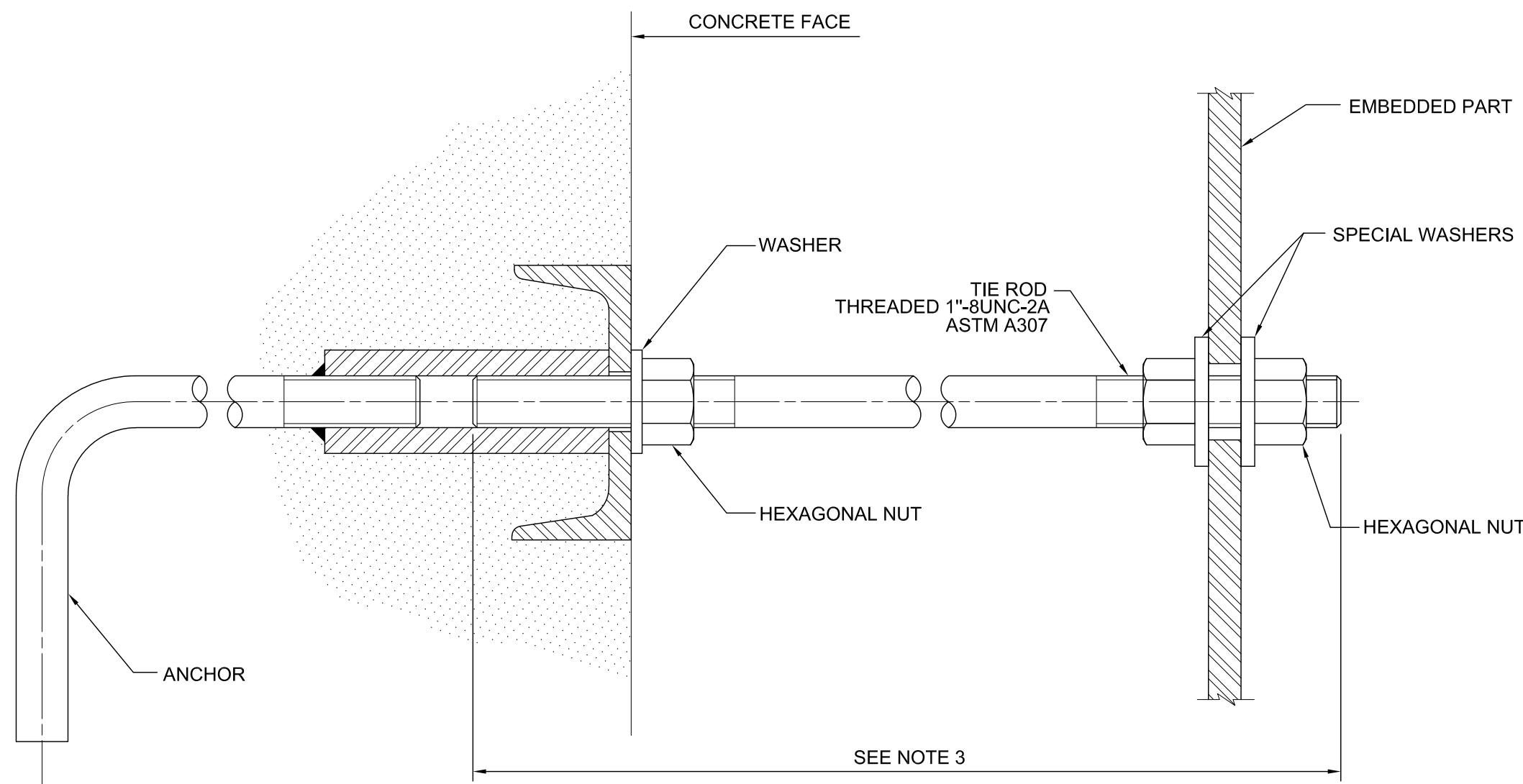
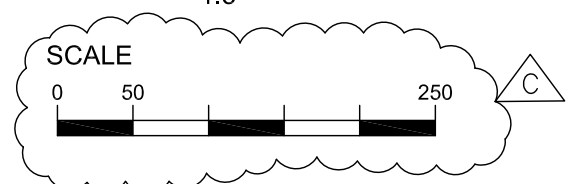
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| Drawn by / Dessiné par | Designed by / Conçu par |
| B. GIGUÈRE | S. BONIN |
| Approved by / Approuvé par | Drawing Date / Date du dessin |
| P. PLACENTINO | 2019-04-16 |
| Project manager / Administrateur de projet | |
| J. BIBEAU | |
| File Number / Numéro du Dossier | Drawing Number / Numéro du Dessin |
| Project Number / Numéro du projet | 104 |
| 60522156 | Sheet Feuille |



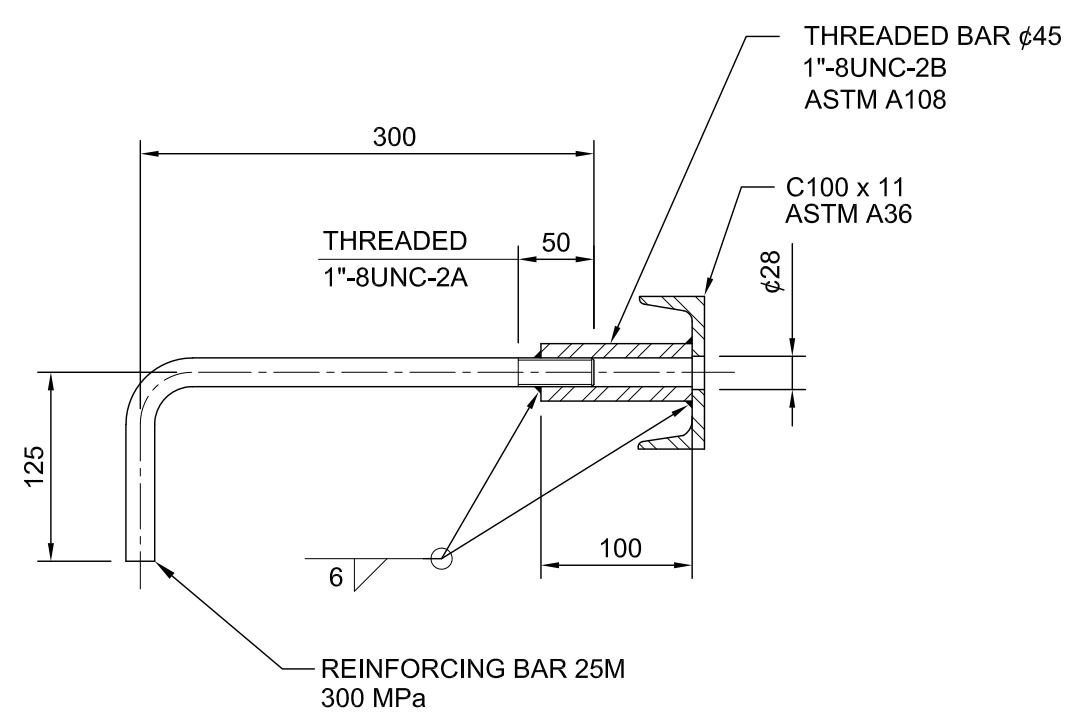
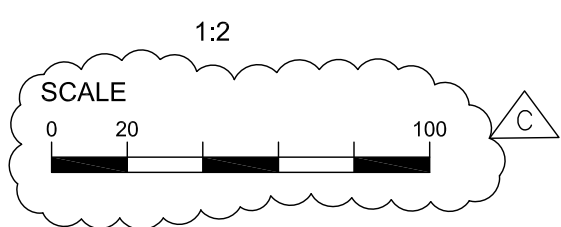
TYPICAL LAYOUT FOR
TYPE AD-1 ANCHORS



TYPE AD-1 ANCHOR
FOR REFERENCE ONLY (BY OTHERS)

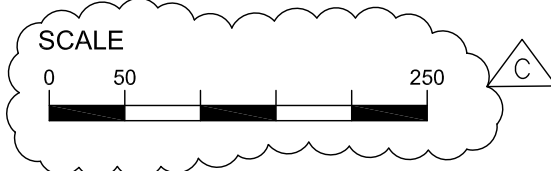


TYPICAL LAYOUT FOR
TYPE A-1 ANCHORS



TYPE A-1 ANCHOR

ANCHORS IN FIRST PHASE CONCRETE (BY OTHERS)
ANCHORS IN NEW CONCRETE (TO SUPPLY AND INSTALL SEE DWG. 103)



NOTES

- 1- DIMENSIONS SHOWN ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
- 2- LENGTH TO BE DETERMINED BY SUPPLIER OF EMBEDDED PARTS.
- 3- DO NOT APPLY ANY PAINT ON ANCHORS. APPLY LUBRICANT ON THREAD BEFORE SHIPPING.
- 4- ANCHORS IN FIRST PHASE CONCRETE ARE INSTALLED AND SUPPLIED BY OTHERS (CIVIL CONTRACTOR). ANCHORS IN NEW CONCRETE SHALL BE SUPPLIED AND INSTALLED BY VENDOR (SEE DWG 103).
- 5- NUTS AND WASHERS MATERIAL SHALL BE COMPATIBLE WITH RODS ASTM A307.

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| | | | |
| C | ISSUED FOR TENDER 2020 | S.B. | 2020-07-07 |
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| A | FINAL ISSUED FOR TENDER | S.B. | 2019-10-31 |
| No. | Description | Drawn By Des. Par | Date |

Revision / Révision

| | |
|---|---|
| A | A Detail number Numéro du détail |
| B | B Location dwg. number Numéro sur dessin |



Project title / Titre du projet

PORT SEVERN
MAIN DAM
MECHANIZATION

Drawing title / Titre du dessin

DAM GATE
PRIMARY ANCHORS
DETAILS

| | |
|--|---|
| Drawn by / Dessiné par B. GIGUÈRE | Designed by / Conçu par S. BONIN |
| Approved by / Approuvé par P. PLACENTINO | Drawing Date / Date du dessin 2019-04-16 |
| Project manager / Administrateur de projet J.BIBEAU | |
| File Number / Numéro du Dossier | Drawing Number / Numéro du Dessin |
| Project Number / Numéro du projet 60522156 | 105 Sheet Feuille of du |

| CONTROL & CONNECTION MEEND | |
|-----------------------------------|---|
| | WIRE CONNECTION |
| | TERMINAL BLOCK |
| | TERMINAL BLOCK MOTOR CONTROL CENTER (MCC) |
| | TERMINAL BLOCK IN HOIST MACHINERY ENCLOSURE |
| | TERMINAL BLOCK LOCATED IN THE GATE CONTROL STATION |
| <div><div></div><div></div></div> | |
| | DEVICE LOCATED IN THE FIELD |
| | DEVICE MOUNTED ON CONTROL COMPARTMENT OF MCC |
| | NORMALLY CLOSED (NC) CONTACT CLOSED (BREAK) |
| | NORMALLY OPEN (NO) CONTACT OPEN (MAKE) |
| | NO PUSH BUTTON |
| | NC PUSH BUTTON |
| | EMERGENCY STOP |
| | SELECTOR SWITCH |
| | SELECTOR SWITCH WITH SPRING RETURN |
| | THERMOSTAT CLOSE ON TEMPERATURE INCREASE |
| | THERMOSTAT OPENS ON TEMPERATURE INCREASE |
| | NO LIMIT SWITCH |
| | NO LIMIT SWITCH HELD CLOSED |
| | NC LIMIT SWITCH |
| | NC LIMIT SWITCH HELD OPEN |
| | NORMALLY OPEN ON DELAY |
| | NORMALLY CLOSE ON DELAY |
| | NORMALLY OPEN OFF DELAY |

| CONTROL & CONNECTION LEGEND | |
|-----------------------------|--|
| | PILOT LIGHT B - AMBER B - BLUE R - RED C - CLEAR G - GREEN Y - YELLOW W - WHITE |
| | CONTROL TRANSFORMER |
| | GATE POSITION ENCODER |
| | TIMER (ON DELAY OFF DELAY) |
| | RELAY COIL (ASTERISK DENOTES THE RELAY DESIGNATION) |

| GENERAL ARRANGEMENT LEGEND | |
|----------------------------|-----------------------------|
| | DISCONNECT SWITCH |
| | SINGLE POLE SWITCH |
| | FLUORESCENT LIGHT FIXTURE |
| | RECEPTACLE 15A 120V DUPLEX |
| | EMERGENCY LIGHT |
| | UNIT HEATER |
| | LOCAL CONTROL STATION |
| | 600 V POWER OUTLET 3 PH 3 W |
| | JUNCTION BOX |
| | LIGHTING POST |
| | TEMPERATURE SENSOR |
| | HORN I STROBE |

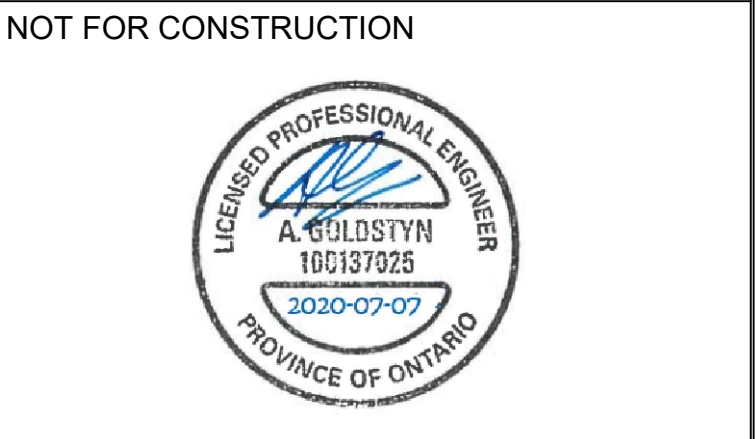
| GROUNDING LEGEND | |
|------------------|---|
| | GROUNDING ROD |
| | SURFACE GROUND CONDUCTOR |
| | EMBEDDED GROUND CONDUCTOR |
| | GROUND CONDUCTOR 1 m LONG COILED UP FOR FUTURE CONNECTION |

| SINGLE LINE LEGEND | |
|--------------------|--|
| | NON-FUSED DISCONNECT SWITCH |
| | FUSED DISCONNECT SWITCH |
| | FUSE |
| | RESISTOR |
| | CURRENT TRANSFORMER |
| | A C GENERATOR |
| | POTENTIAL TRANSFORMER |
| | CIRCUIT BREAKER |
| | REACTOR |
| | CONNECTION ON CROSSING CONDUCTORS (DOT) |
| | GROUND |
| | LOCKABLE DEVICE |
| | DRAW-OUT |
| | AC MOTOR |
| | THERMOSTAT |
| | UTILITY METER |
| | CONTACTOR (No INDICATES NEMA SIZE) |
| | THERMAL OVERLOAD |
| | HEATING ELEMENT |
| | DIGITAL AMMETER |
| | GROUND FAULT PROTECTOR CURRENT SENSOR & RELAY |
| | DEVICE (IDENTIFICATION NEAR SYMBOL) |
| | 600 V POWER OUTLET, 3 PH, 3 W |
| | DUPLEX RECEPTACLE GFCI = GROUND FAULT CIRCUIT INTERRUPTOR |

| LEGEND | |
|--------|---|
| BC | BRAKE CONTACTOR |
| BMR | BRAKE MANUAL RELEASE (CLOSE WHEN LEVER NOT MANUALLY OPERATED) |
| CR | CONTROL RELAY |
| CT | CURRENT TRANSFORMER |
| DS | DISCONNECT SWITCH |
| FU | FUSE |
| GFR | GROUND FAULT RELAY |
| GPE | GATE POSITION ENCODER |
| HCS | HOIST CONTROL STATION |
| HLSR | HEATING LOAD SHED RELAY |
| HB | HOIST HOLDING BRAKE |
| HO | HOIST MOTOR UNIT |
| HOLS | HOIST OVERTRAVEL LIMIT SWITCH |
| HS | HORN AND STROBE |
| HTR | HEATER |
| L | LOWER CONTACTOR |
| LS | LIMIT SWITCH |
| O/L | OVERLOAD RELAY |
| OVT | OVERTRAVEL |
| PTT | TEST PUSH BUTTON |
| R | RAISE CONTACTOR |
| RL | REMOTE LOWER |
| RR | REMOTE RAISE |
| SS | SELECTOR SWITCH |

| | | | |
|-----|-------------------------|---------------------|------------|
| | | | |
| C | ISSUED FOR TENDER 2020 | P.A. | 2020-07-07 |
| B | NO REVISION B ISSUED | N/A | N/A |
| A | FINAL ISSUED FOR TENDER | P.A. | 2010-10-31 |
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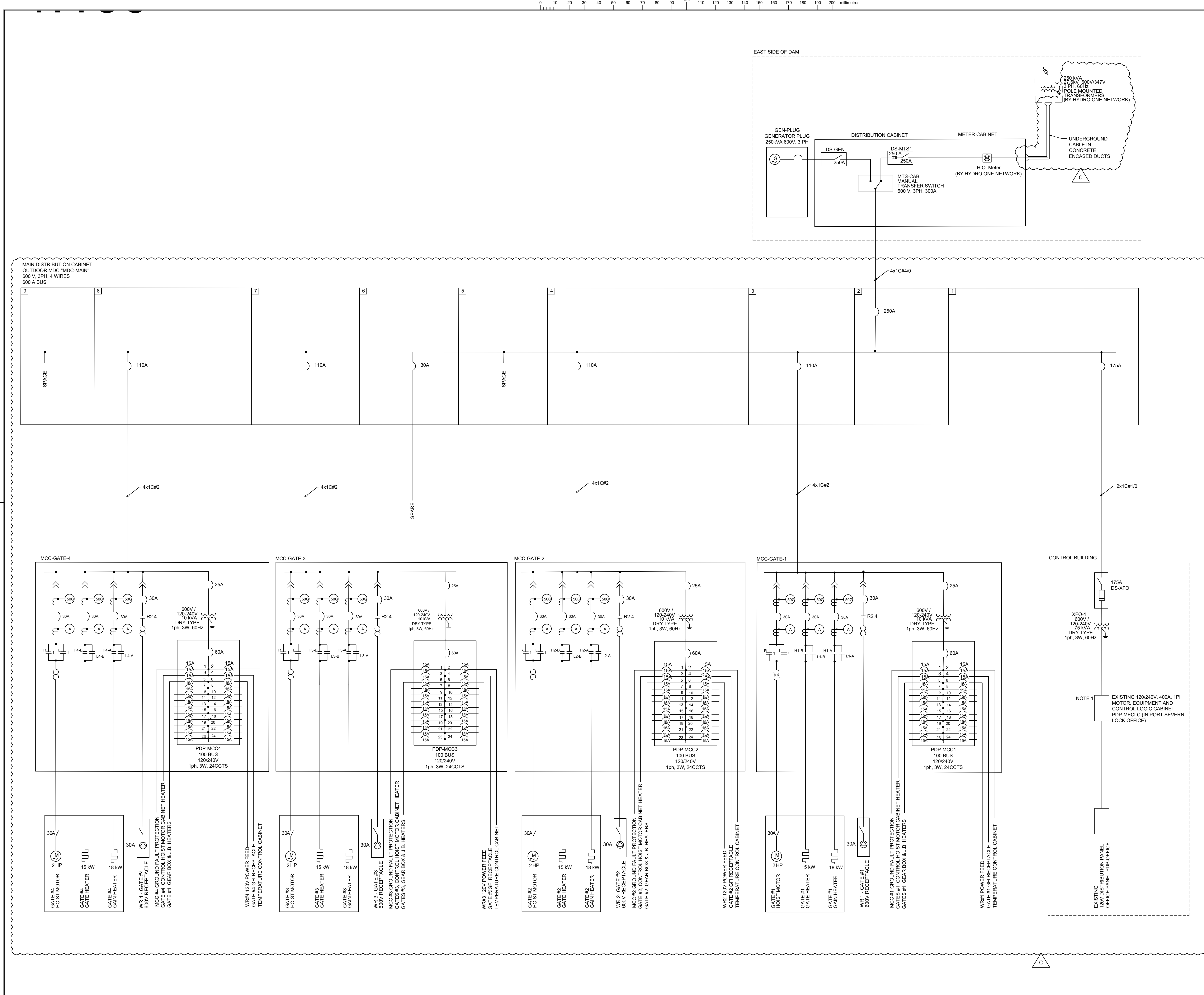
Project title / Titre du projet


PORT SEVERN

Drawing title / Titre du dessin


ELECTICAL
LEGEND

| | |
|--|--------------------------------------|
| Drawn by / Dessiné par | Designed by / Conçu par |
| P. AUGER | P. AUGER |
| Approved by / Approuvé par | Drawing Date / Date du dessin |
| G. TCHAKEDJIAN | 2019-10-31 |
| Project manager / Administrateur de projet | |
| J. BIBEAU | |
| File Number / Numéro du Dossier | Drawing Number / Numéro du Dessin |
| Project Number / Numéro du projet | 200 |
| 60522156 | Sheet Feuille |
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Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada



Heritage Canals and Engineering Works
Heritage Conservation Directorate
Canaux historiques et travaux d'ingénierie
Direction de la conservation du patrimoine

Canada

AECOM

NOTES

1- ROAD AND WALKWAY LIGHTING CIRCUIT TO BE
FED FROM PDP-MECLC SPARE CIRCUIT.

| No. | Description | Down By Des Par | Date |
|-----|-------------------------|--------------------|------------|
| C | ISSUED FOR TENDER 2020 | P.A. | 2020-07-07 |
| B | ISSUED FOR ADDENDUM | P.A. | 2019-12-03 |
| A | FINAL ISSUED FOR TENDER | P.A. | 2019-10-31 |


Revision / Révision

A

B

A Detail number
Numéro du détail
B Location dwg. number
Numéro sur dessin

NOT FOR CONSTRUCTION



LICENSED PROFESSIONAL ENGINEER
A. GOLDSTYN
100137025
2020-07-07
PROVINCE OF ONTARIO

Project title / Titre du projet

PORT SEVERN

Drawing title / Titre du dessin

SINGLE LINE SCHEMATIC
MAIN DAM
GENERAL LAYOUT

Drawn by / Dessiné par
P. AUGER

Designed by / Conçu par
P. AUGER

Approved by / Approuvé par
A. GOLDSTYN

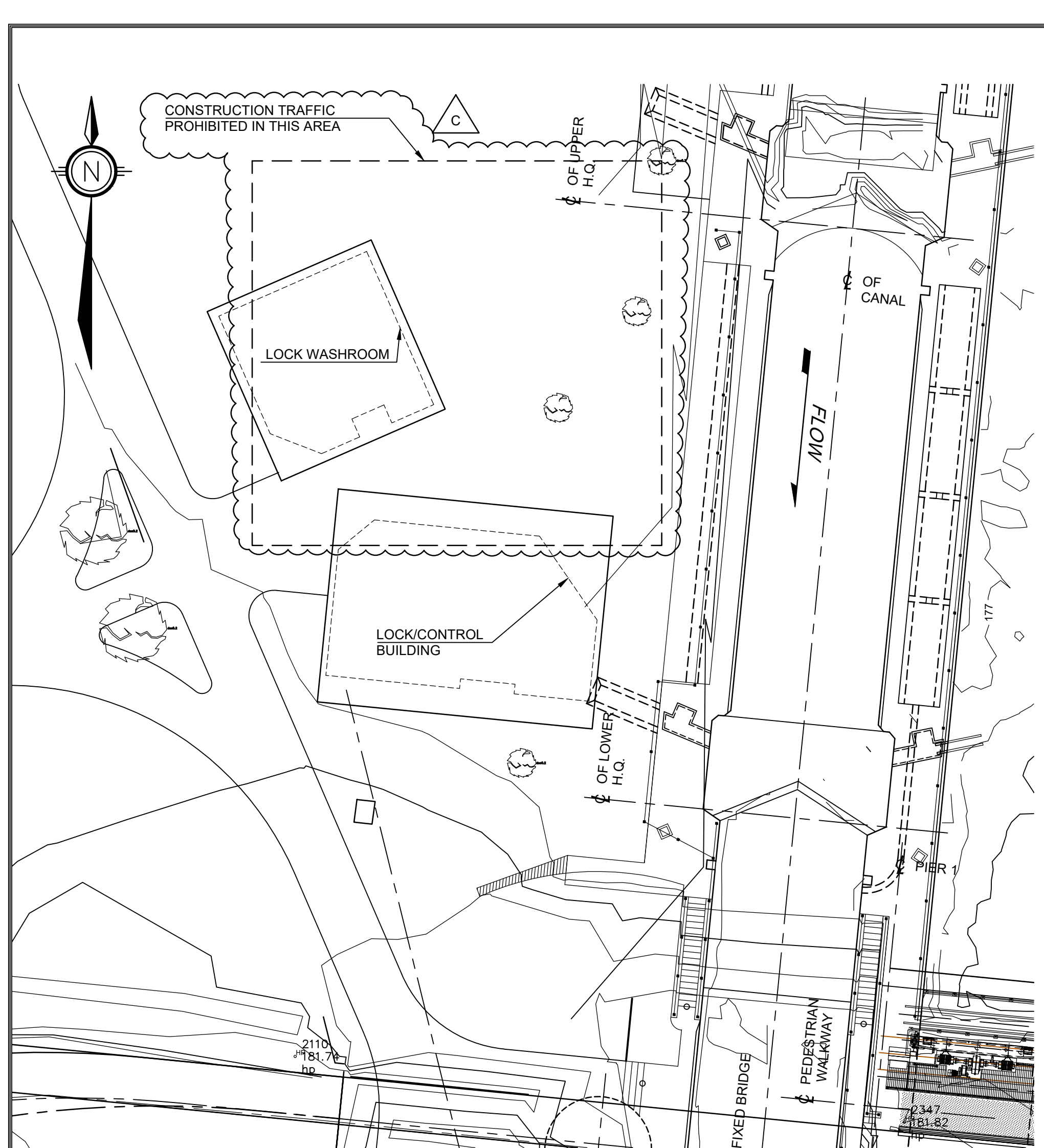
Drawing Date / Date du dessin
2019-12-03

Project manager / Administrateur de projet
J. BIBEAU

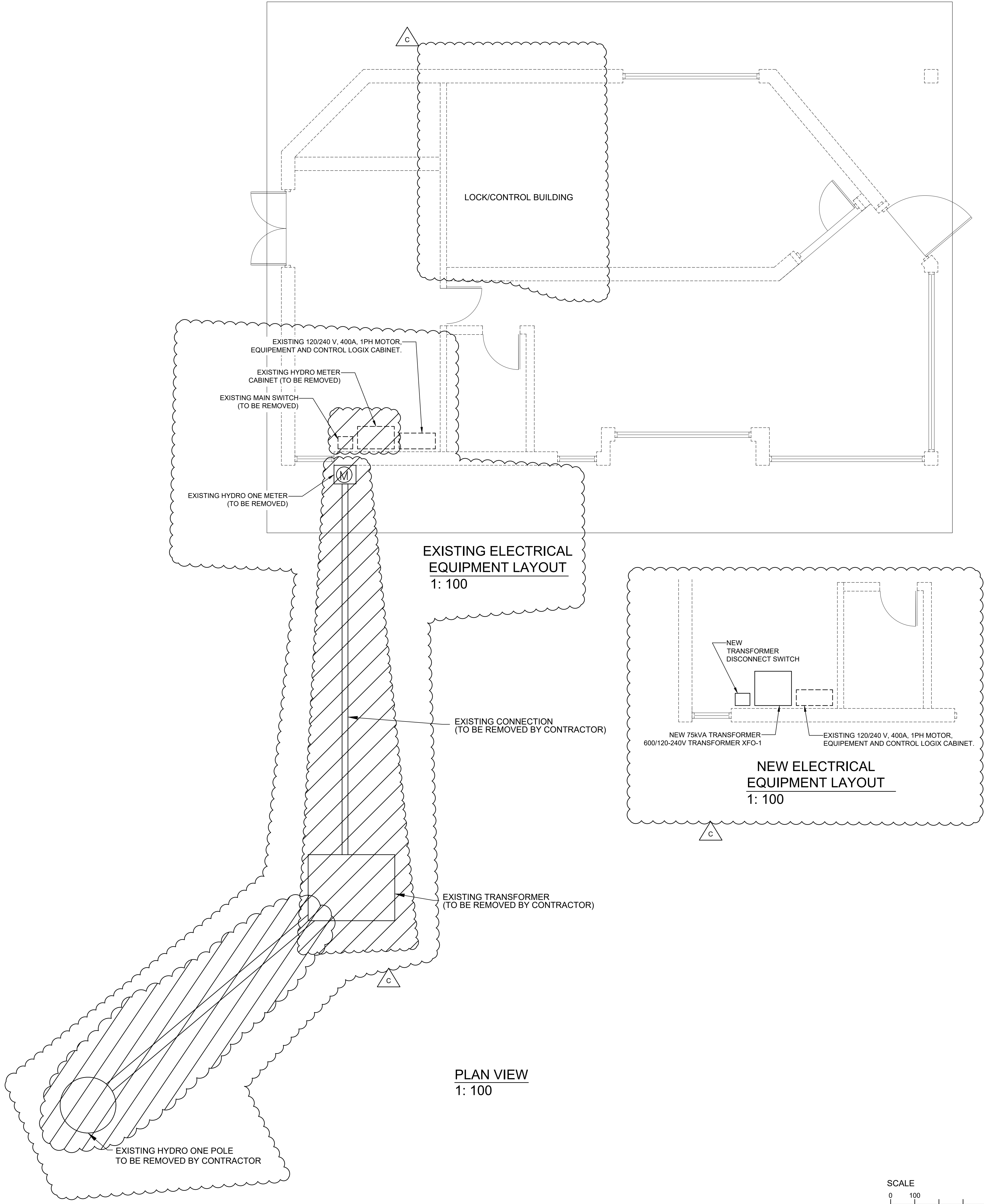
File Number / Numéro du Dossier
60522156

Drawing Number/
Numéro du Dessin
201
Sheet
Feuille
of
du

PWGSC-B1 PLOTTED BY: MORIELLIA DATE PLOTTED: Jul 06, 2020 FILE NAME: E-201_ONE LINE SCHEMATIC.dwg LAYOUT NAME: Layout1



GENERAL VIEW
N.T.S.




EXISTING ELECTRICAL
EQUIPMENT LAYOUT
1: 100


NEW ELECTRICAL
EQUIPMENT LAYOUT
1: 100

PLAN VIEW
1: 100





Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada



Heritage Canals and Engineering Works
Heritage Conservation Directorate
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Direction de la conservation du patrimoine

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AECOM

NOTES

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| No. | Description | Drawn By Des. Par | Date |

Revision / Révision


A

B

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Numéro du détail

B Location dwg. number
Numéro sur dessin

NOT FOR CONSTRUCTION



Project title / Titre du projet

PORT SEVERN
MAIN DAM
REPLACEMENT

Drawing title / Titre du dessin

LOCK/CONTROL BUILDING
EQUIPMENT LAYOUT

Drawn by / Dessiné par
P. AUGER

Designed by / Conçu par
P. AUGER

Approved by / Approuvé par
A. GOLDSTYN

Drawing Date / Date du dessin
2019-12-03

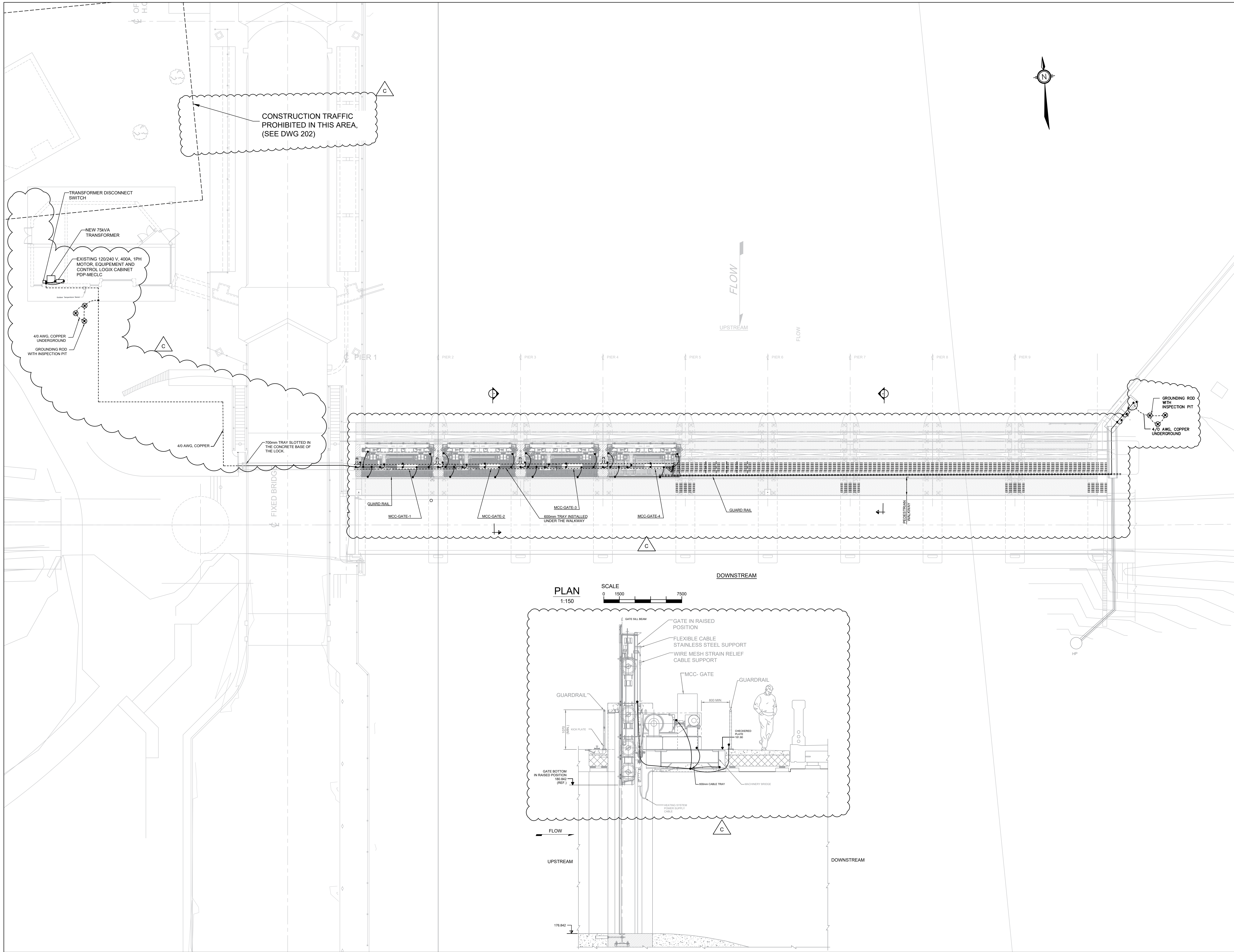
Project manager / Administrateur de projet
J. BIBEAU

File Number / Numéro du Dossier
60522156

Drawing Number/
Numéro du Dessin
202

Project Number / Numéro du projet
60522156

Sheet
Feuille
of
du



- NOTES :
1. CONNECT MAIN GROUNDING CONDUCTOR FOR NEW EQUIPMENT IN CONTROL BUILDING TO EXISTING GROUNDING SYSTEM. IF EXISTING GROUNDING SYSTEM IS NOT FOUND, INSTALL NEW GROUNDING ARRANGEMENT AS SHOWN.
 2. VERIFY THAT THERE ARE NO EXISTING UTILITIES UNDERGROUND IN THE WAY OF GROUNDING INSTALLATION NEAR CONTROL BUILDING. OTHERWISE, COORDINATE AN ALTERNATE LOCATION TO SUIT FIELD CONDITIONS.

| No. | Description | Drawn By Des. Par | Date |
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| Revision / Révision | |
|---------------------|---|
| A | A Detail number Numéro du détail |
| B | B Location dwg. number Numéro sur dessin |

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Project title / Titre du projet

PORT SEVERN

Drawing title / Titre du dessin

ELECTRICAL
BURIED AND SURFACE
GROUNDING

| | |
|---|---|
| Drawn by / Dessiné par P. AUGER | Designed by / Conçu par P. AUGER |
| Approved by / Approuvé par A. GOLDSTYN | Drawing Date / Date du dessin 2019-10-31 |
| Project manager / Administrateur de projet J. BIBEAU | |
| File Number / Numéro du Dossier 60522156 | Drawing Number / Numéro du Dessin 203 |

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 millimetres

NOTES

1- THE OUTDOOR TEMPERATURE SENSOR
CONTROL IS COMMON FOR GATES 1, 2, 3 & 4

| No. | Description | Drawn By Des. Par | Date |
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Project title / Titre du projet

PORT SEVERN

Drawing title / Titre du dessin

GATE AND GAIN
HEATING

Drawn by / Dessiné par

P. AUGER

Designed by / Conçu par

P. AUGER

Approved by / Approuvé par

A. GOLDSTYN

Drawing Date / Date du dessin

2019-10-31

Project manager / Administrateur de projet

J. BIBEAU

File Number / Numéro du Dossier

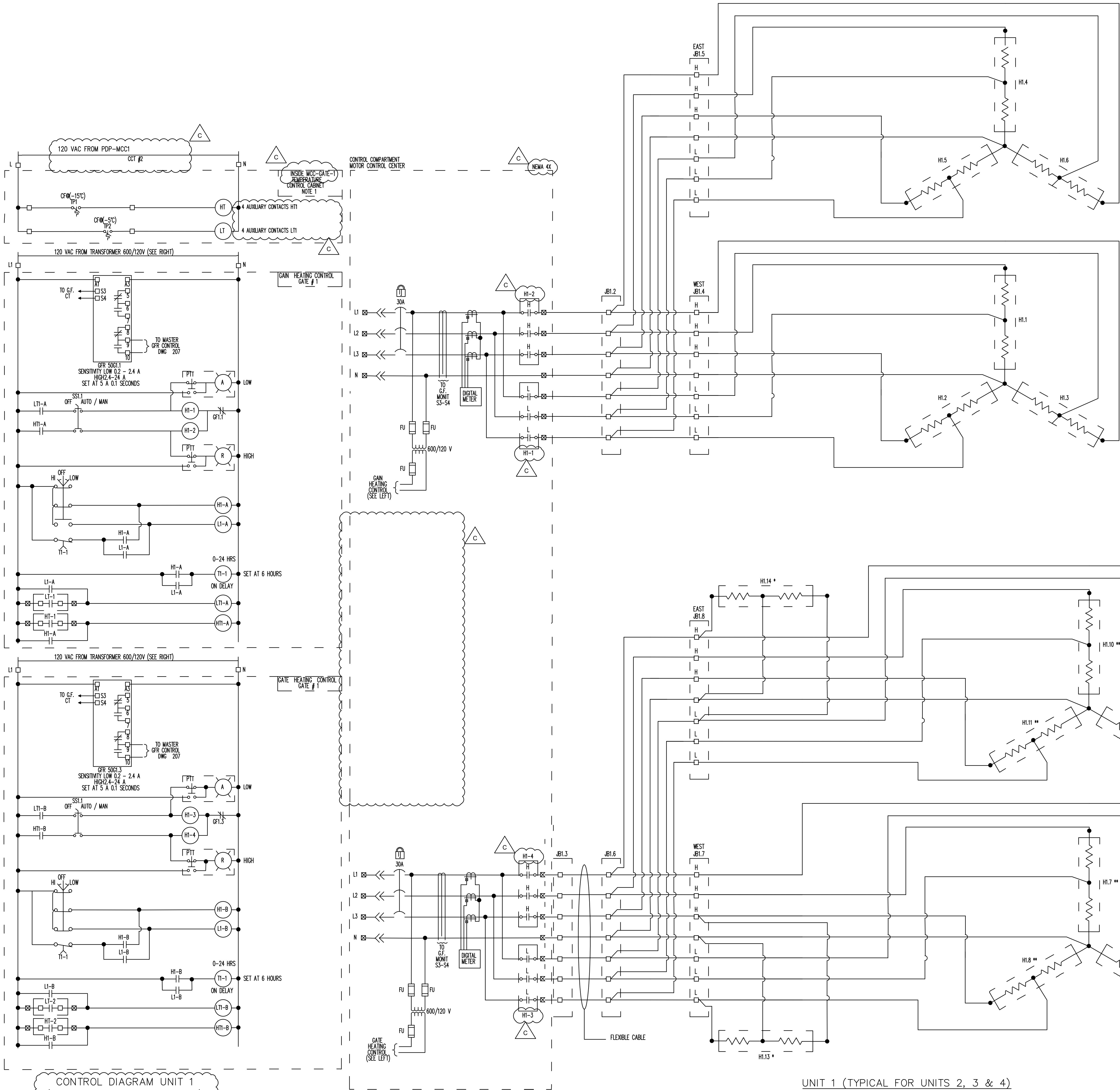
60522156

Drawing Number/
Numéro du Dessin

204

Sheet
Feuille

of
du



GAIN HEATER EAST BANK

3 kW PER HEATER
18 kW PER GATE

GAIN HEATER WEST BANK

GATE HEATER EAST BANK

* 1.5 kW PER HEATER
** 2 kW PER HEATER
15 kW PER GATE

GATE HEATER WEST BANK

UNIT 1 (TYPICAL FOR UNITS 2, 3 & 4)

NOTES

1- THE GAIN AND GATE HEATING JUNCTION
BOXES ARE LOCATED IN THE HOISTING
SYSTEM ENCLOSURE

| | | | |
|-----|-------------------------|----------------------|------------|
| | | | |
| | | | |
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PORT SEVERN

Drawing title / Titre du dessin

600V RECEPTACLES
GROUND FAULT PROTECTION

| | |
|---|---|
| Drawn by / Dessiné par P. AUGER | Designed by / Conçu par P. AUGER |
| Approved by / Approuvé par A. GOLDSTYN | Drawing Date / Date du dessin 2019-10-31 |

Project manager / Administrateur de projet

J. BIBEAU

File Number / Numéro du Dossier

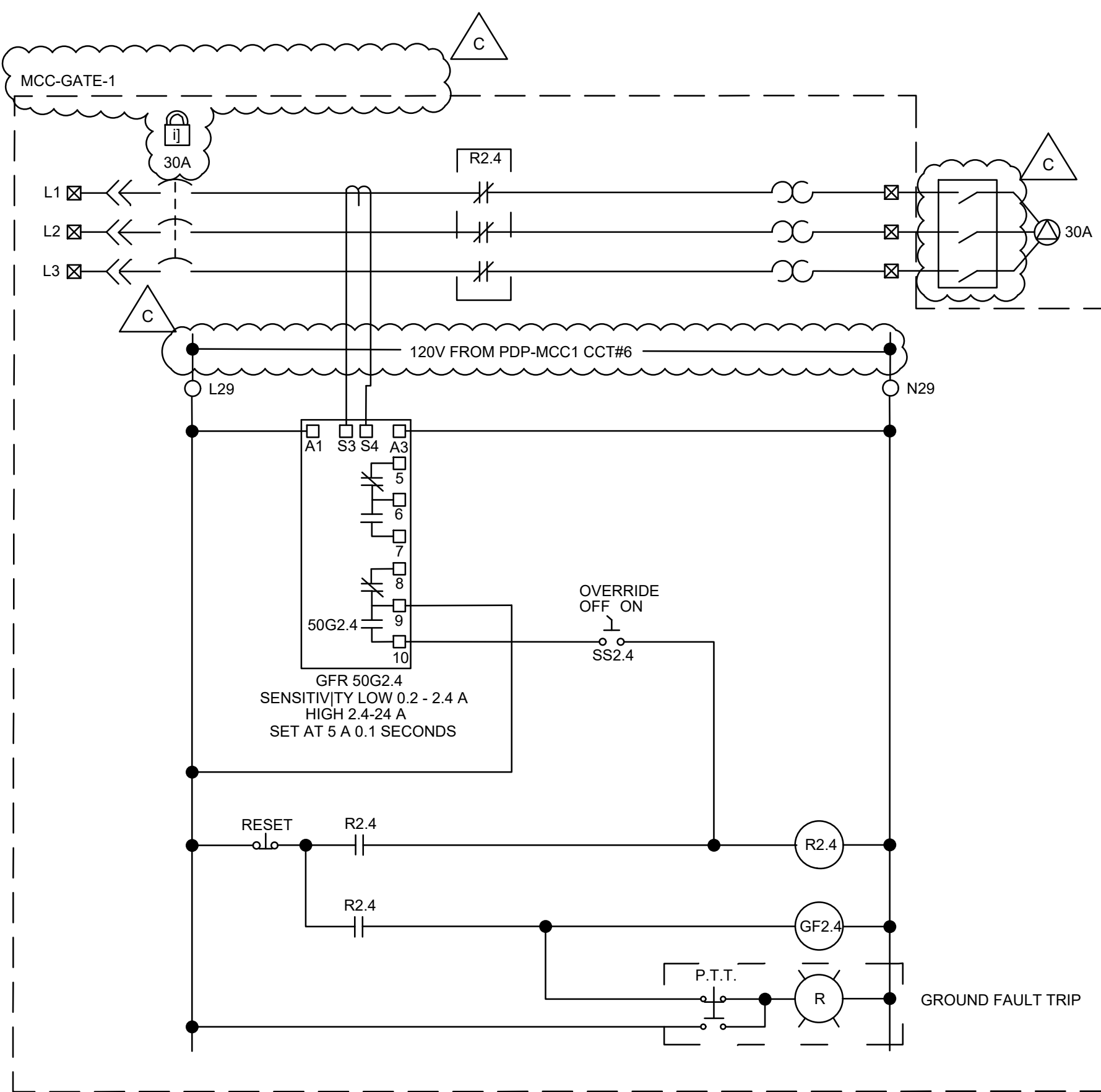
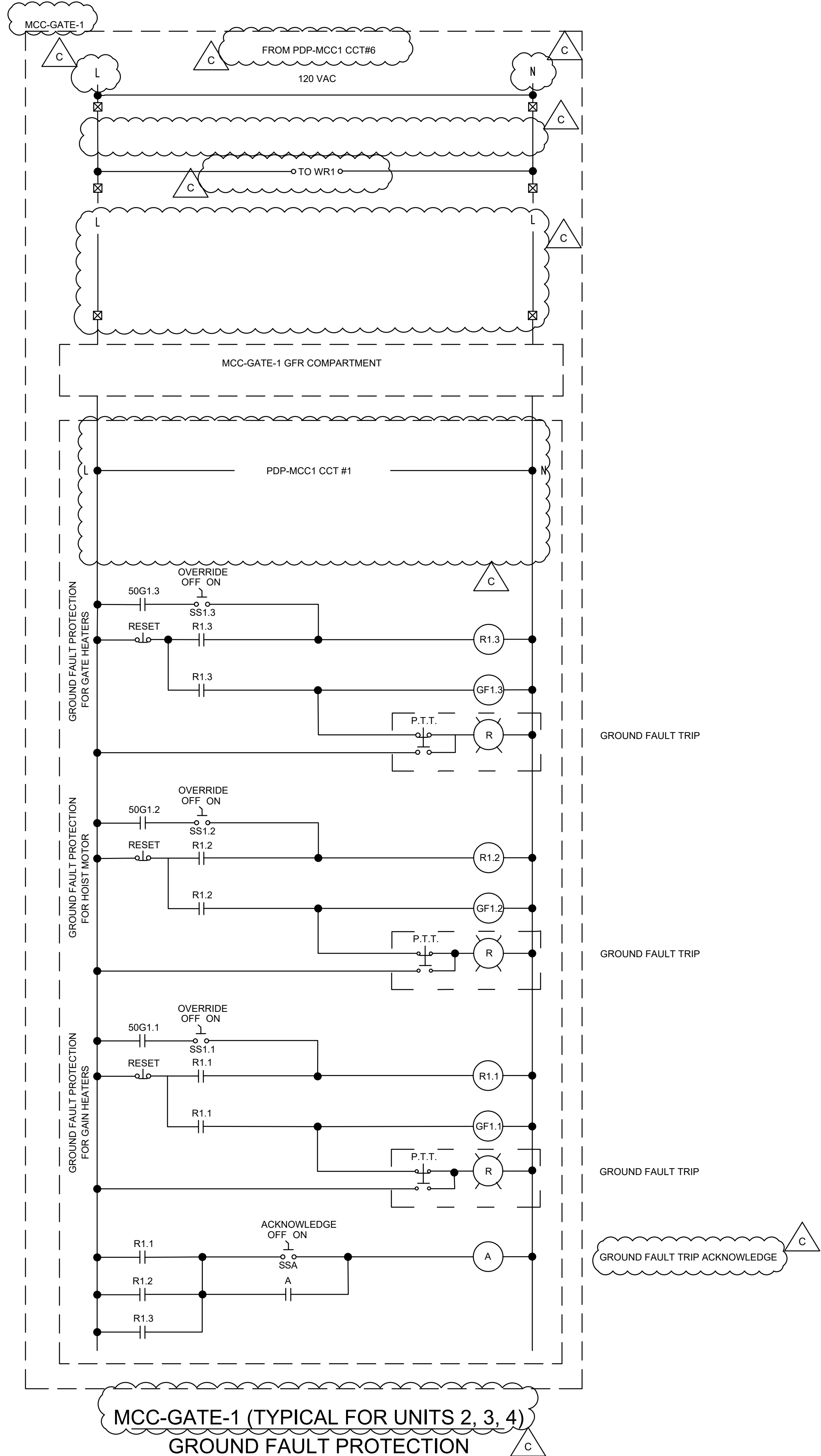
Project Number / Numéro du projet
60522156

Drawing Number/
Numéro du Dessin

207

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Feuille

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du



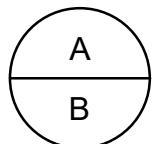
600V RECEPTACLES
MCC-GATE-1 (TYPICAL FOR UNIT 2, 3, 4)
SCHEMATIC

C

| FUNCTION | TYPE | Total Quantity | 0 (OTHER) | | | | 1 | | | | 2 | | | | 3 | | | | 4 | | | |
|---|--------------------------|----------------|-----------|------------------|------------------|---------|-----|------------------|---|---------|-----|------------------|---|---------|-----|------------------|---|---------|-----|------------------|---|---------|
| | | | No. | FROM | TO | Qty.(m) | No. | FROM | TO | Qty.(m) | No. | FROM | TO | Qty.(m) | No. | FROM | TO | Qty.(m) | No. | FROM | TO | Qty.(m) |
| HOIST (POWER) | 3c#12 - Teck 1000 V | 40 | | | | | 101 | MCC-GATE-1 | DS-HO1 | 10 | 201 | MCC-GATE-2 | DS-HO2 | 10 | 301 | MCC-GATE-3 | DS-HO3 | 10 | 401 | MCC-GATE-4 | DS-HO4 | 10 |
| HOIST (POWER) | 3c#12 - Teck 1000 V | 20 | | | | | 102 | DS-HO1 | HO1 | 5 | 202 | DS-HO2 | HO2 | 5 | 302 | DS-HO3 | HO3 | 5 | 402 | DS-HO4 | HO4 | 5 |
| HOIST (POWER) | 2c#12 - Teck 600 V | 40 | | | | | 103 | MCC-GATE-1 | JB1.1 | 10 | 203 | MCC-GATE-2 | JB2.1 | 10 | 303 | MCC-GATE-3 | JB3.1 | 10 | 403 | MCC-GATE-4 | JB4.1 | 10 |
| HOIST (CONTROL) | 30c#14 - Teck 600 V | 40 | | | | | 104 | MCC-GATE-1 | JB1.1 | 10 | 204 | MCC-GATE-2 | JB2.1 | 10 | 304 | MCC-GATE-3 | JB3.1 | 10 | 404 | MCC-GATE-4 | JB4.1 | 10 |
| HOIST (CONTROL) | 2pr#16 shld - Teck 600 V | 40 | | | | | 105 | MCC-GATE-1 | JB1.1 | 10 | 205 | MCC-GATE-2 | JB2.1 | 10 | 305 | MCC-GATE-3 | JB3.1 | 10 | 405 | MCC-GATE-4 | JB4.1 | 10 |
| BRAKE MOTOR SOLENOID ACTUATOR | 2c#14 - Teck 600 V | 20 | | | | | 106 | JB1.1 | BC1.1 | 5 | 206 | JB2.1 | BC2.1 | 5 | 306 | JB3.1 | BC3.1 | 5 | 406 | JB4.1 | BC4.1 | 5 |
| HOIST HOLDING BRAKE MAN/OPEN | 2c#14 - Teck 600 V | 20 | | | | | 107 | JB1.1 | LS1.7 | 5 | 207 | JB2.1 | LS2.7 | 5 | 307 | JB3.1 | LS3.7 | 5 | 407 | JB4.1 | LS4.7 | 5 |
| HOIST CONTROL STATI O N | 4c#14 - Teck 600 V | 20 | | | | | 108 | JB1.1 | HCS1 | 5 | 208 | JB2.1 | HCS1 | 5 | 308 | JB3.1 | HCS1 | 5 | 408 | JB4.1 | HCS1 | 5 |
| HOIST CONTROL STATI O N | 1pr#16 shld - Teck 300 V | 20 | | | | | 109 | JB1.1 | HCS1 | 5 | 209 | JB2.1 | HCS1 | 5 | 309 | JB3.1 | HCS1 | 5 | 409 | JB4.1 | HCS1 | 5 |
| HOIST GATE POSITION ENCODER | 1pr#16 shld - Teck 300 V | 20 | | | | | 110 | JB1.1 | GPE1 | 5 | 210 | JB2.1 | GPE1 | 5 | 310 | JB3.1 | GPE1 | 5 | 410 | JB4.1 | GPE1 | 5 |
| HOIST SLACK ROPE #1 | 2c#14 - Teck 600 V | 20 | | | | | 111 | JB1.1 | LS1.3 | 5 | 211 | JB2.1 | LS2.3 | 5 | 311 | JB3.1 | LS3.3 | 5 | 411 | JB4.1 | LS4.3 | 5 |
| HOIST SLACK ROPE #2 | 2c#14 - Teck 600 V | 20 | | | | | 112 | JB1.1 | LS1.4 | 5 | 212 | JB2.1 | LS2.4 | 5 | 312 | JB3.1 | LS3.4 | 5 | 412 | JB4.1 | LS4.4 | 5 |
| HOIST SLACK ROPE #3 | 2c#14 - Teck 600 V | 20 | | | | | 113 | JB1.1 | LS1.5 | 5 | 213 | JB2.1 | LS2.5 | 5 | 313 | JB3.1 | LS3.5 | 5 | 413 | JB4.1 | LS4.5 | 5 |
| HOIST SLACK ROPE #4 | 2c#14 - Teck 600 V | 20 | | | | | 114 | JB1.1 | LS1.6 | 5 | 214 | JB2.1 | LS2.6 | 5 | 314 | JB3.1 | LS3.6 | 5 | 414 | JB4.1 | LS4.6 | 5 |
| HOIST OVERTRAVEL | 2c#14 - Teck 600 V | 20 | | | | | 115 | JB1.1 | LS1.2 | 5 | 215 | JB2.1 | LS2.2 | 5 | 315 | JB3.1 | LS3.2 | 5 | 415 | JB4.1 | LS4.2 | 5 |
| ROTARY LIMIT SWITCH | 4c#14 - Teck 600 V | 20 | | | | | 116 | JB1.1 | LS1.1 | 5 | 216 | JB2.1 | LS2.1 | 5 | 316 | JB3.1 | LS3.1 | 5 | 416 | JB4.1 | LS4.1 | 5 |
| MOTOR SPACE HEATER | 2c#12 - Teck 600 V | 20 | | | | | 117 | JB1.1 | HO1 SPACE HEATER | 5 | 217 | JB2.1 | HO2 SPACE HEATER | 5 | 317 | JB3.1 | HO3 SPACE HEATER | 5 | 417 | JB4.1 | HO4 SPACE HEATER | 5 |
| GAIN HEATING | 8c#12 - Teck 600 V | 40 | | | | | 118 | MCC-GATE-1 | JB1.2 | 10 | 218 | MCC-GATE-2 | JB2.2 | 10 | 318 | MCC-GATE-3 | JB3.2 | 10 | 418 | MCC-GATE-4 | JB4.2 | 10 |
| GAIN HEATING - JB WEST SIDE | 8c#12 - Teck 600 V | 20 | | | | | 119 | JB1.2 | JB1.4 | 5 | 219 | JB2.2 | JB2.4 | 5 | 319 | JB3.2 | JB3.4 | 5 | 419 | JB4.2 | JB4.4 | 5 |
| GAIN HEATING - HEATER WESTA | 3c#12 - Teck 1000 V | 20 | | | | | 120 | JB1.4 | H1.1 | 5 | 220 | JB2.4 | H2.1 | 5 | 320 | JB3.4 | H3.1 | 5 | 420 | JB4.4 | H4.1 | 5 |
| GAIN HEATING - HEATER WEST B | 3c#12 - Teck 1000 V | 20 | | | | | 121 | JB1.4 | H1.2 | 5 | 221 | JB2.4 | H2.2 | 5 | 321 | JB3.4 | H3.2 | 5 | 421 | JB4.4 | H4.2 | 5 |
| GAIN HEATING - HEATER WEST C | 3c#12 - Teck 1000 V | 20 | | | | | 122 | JB1.4 | H1.3 | 5 | 222 | JB2.4 | H2.3 | 5 | 322 | JB3.4 | H3.3 | 5 | 422 | JB4.4 | H4.3 | 5 |
| GAIN HEATING - JB EAST SIDE | 8c#12 - Teck 600 V | 20 | | | | | 123 | JB1.2 | JB1.5 | 5 | 223 | JB2.2 | JB2.5 | 5 | 323 | JB3.2 | JB3.5 | 5 | 423 | JB4.2 | JB4.5 | 5 |
| GAIN HEATING - HEATER EAST A | 3c#12 - Teck 1000 V | 20 | | | | | 124 | JB1.5 | H1.4 | 5 | 224 | JB2.5 | H2.4 | 5 | 324 | JB3.5 | H3.4 | 5 | 424 | JB4.5 | H4.4 | 5 |
| GAIN HEATING - HEATER EAST B | 3c#12 - Teck 1000 V | 20 | | | | | 125 | JB1.5 | H1.5 | 5 | 225 | JB2.5 | H2.5 | 5 | 325 | JB3.5 | H3.5 | 5 | 425 | JB4.5 | H4.5 | 5 |
| GAIN HEATING - HEATER EAST C | 3c#12 - Teck 1000 V | 20 | | | | | 126 | JB1.5 | H1.6 | 5 | 226 | JB2.5 | H2.6 | 5 | 326 | JB3.5 | H3.6 | 5 | 426 | JB4.5 | H4.6 | 5 |
| GATE HEATING | 8c#12 - Teck 600 V | 40 | | | | | 127 | MCC-GATE-1 | JB1.3 | 10 | 227 | MCC-GATE-2 | JB2.3 | 10 | 327 | MCC-GATE-3 | JB3.3 | 10 | 427 | MCC-GATE-4 | JB4.3 | 10 |
| GATE HEATING - JB ON GATE | 8c#12 - Flex 600 V | 40 | | | | | 128 | JB1.3 | JB1.6 | 10 | 228 | JB2.3 | JB2.6 | 10 | 328 | JB3.3 | JB3.6 | 10 | 428 | JB4.3 | JB4.6 | 10 |
| GATE HEATING - JB WEST SIDE | 8c#12 - Teck 600 V | 20 | | | | | 129 | JB1.6 | JB1.7 | 5 | 229 | JB2.6 | JB2.7 | 5 | 329 | JB3.6 | JB3.7 | 5 | 429 | JB4.6 | JB4.7 | 5 |
| GATE HEATING - HEATER WEST A | 3c#12 - Teck 1000 V | 20 | | | | | 130 | JB1.7 | H1.7 | 5 | 230 | JB2.7 | H2.7 | 5 | 330 | JB3.7 | H3.7 | 5 | 430 | JB4.7 | H4.7 | 5 |
| GATE HEATING - HEATER WEST B | 3c#12 - Teck 1000 V | 20 | | | | | 131 | JB1.7 | H1.8 | 5 | 231 | JB2.7 | H2.8 | 5 | 331 | JB3.7 | H3.8 | 5 | 431 | JB4.7 | H4.8 | 5 |
| GATE HEATING - HEATER WEST C | 3c#12 - Teck 1000 V | 20 | | | | | 132 | JB1.7 | H1.9 | 5 | 232 | JB2.7 | H2.9 | 5 | 332 | JB3.7 | H3.9 | 5 | 432 | JB4.7 | H4.9 | 5 |
| GATE HEATING - HEATER WEST D (Lower Heater) | 3c#12 - Teck 1000 V | 20 | | | | | 133 | JB1.7 | H1.13 | 5 | 233 | JB2.7 | H2.13 | 5 | 333 | JB3.7 | H3.13 | 5 | 433 | JB4.7 | H4.13 | 5 |
| GATE HEATING - JB EAST SIDE | 8c#12 - Teck 600 V | 20 | | | | | 134 | JB1.6 | JB1.8 | 5 | 234 | JB2.6 | JB2.8 | 5 | 334 | JB3.6 | JB3.8 | 5 | 434 | JB4.6 | JB4.8 | 5 |
| GATE HEATING - HEATER EAST A | 3c#12 - Teck 1000 V | 20 | | | | | 135 | JB1.8 | H1.10 | 5 | 235 | JB2.8 | H2.10 | 5 | 335 | JB3.8 | H3.10 | 5 | 435 | JB4.8 | H4.10 | 5 |
| GATE HEATING - HEATER EAST B | 3c#12 - Teck 1000 V | 20 | | | | | 136 | JB1.8 | H1.11 | 5 | 236 | JB2.8 | H2.11 | 5 | 336 | JB3.8 | H3.11 | 5 | 436 | JB4.8 | H4.11 | 5 |
| GATE HEATING - HEATER EAST C | 3c#12 - Teck 1000 V | 20 | | | | | 137 | JB1.8 | H1.12 | 5 | 237 | JB2.8 | H2.12 | 5 | 337 | JB3.8 | H3.12 | 5 | 437 | JB4.8 | H4.12 | 5 |
| GATE HEATING - HEATER EAST D (Lower Heater) | 3c#12 - Teck 1000 V | 20 | | | | | 138 | JB1.8 | H1.14 | 5 | 238 | JB2.8 | H2.14 | 5 | 338 | JB3.8 | H3.114 | 5 | 438 | JB4.8 | H4.14 | 5 |
| 120 V RECEPTACLE | 2c#10 - Teck 600 V | 20 | | | | | 139 | 'PDP-MCC1" | GF1 | 5 | 239 | 'PDP-MCC2" | GF12 | 5 | 339 | 'PDP-MCC3" | GF13 | 5 | 439 | 'PDP-MCC4" | GF14 | 5 |
| OUTDOOR TEMP CONTROL CABINET | 2c#12 - Teck 600 V | 20 | | | | | 140 | 'PDP-MCC1" | OUTDOOR TEMP. CAB. | 5 | 240 | 'PDP-MCC2" | OUTDOOR TEMP. CAB. | 5 | 340 | 'PDP-MCC3" | OUTDOOR TEMP. CAB. | 5 | 440 | 'PDP-MCC4" | OUTDOOR TEMP. CAB. | 5 |
| 600 VAC RECEPTACLE | 4c#6 - Teck 1000 V | 40 | | | | | 142 | MCC-GATE-1 | WR1 | 10 | 242 | MCC-GATE-2 | WR2 | 10 | 342 | MCC-GATE-3 | WR3 | 10 | 442 | MCC-GATE-4 | WR4 | 10 |
| GATE MCC MAIN POWER SUPPLY | 4 x 1c#2 - Teck 1000V | 310 | | | | | 143 | MDC-MAIN Sect. 3 | MCC-GATE-1 | 90 | 243 | MDC-MAIN Sect. 4 | MCC-GATE-2 | 85 | 343 | MDC-MAIN Sect. 7 | MCC-GATE-3 | 70 | 443 | MDC-MAIN Sect. 8 | MCC-GATE-4 | 65 |
| MCC GROUND FAULT PROTECTION 120V POWER SUPPLY | 2c#10 - Teck 600 V | 20 | | | | | 144 | 'PDP-MCC1" | MCC-GATE-1 | 5 | 244 | 'PDP-MCC2" | MCC-GATE-2 | 5 | 344 | 'PDP-MCC3" | MCC-GATE-3 | 5 | 444 | 'PDP-MCC4" | MCC-GATE-4 | 5 |
| CONTROL HOIST MOTOR CABINET HEATER | 2c#12 - Teck 600 V | 40 | | | | | 145 | 'PDP-MCC1" | GATE #1, CONTROL HOIST MOTOR CABINET HEATER | 10 | 245 | 'PDP-MCC2" | GATE #2, CONTROL HOIST MOTOR CABINET HEATER | 10 | 345 | 'PDP-MCC3" | GATE #3, CONTROL HOIST MOTOR CABINET HEATER | 10 | 445 | 'PDP-MCC4" | GATE #4, CONTROL HOIST MOTOR CABINET HEATER | 10 |
| GEAR BOX & JB HEATERS | 2c#12 - Teck 600 V | 80 | | | | | 146 | 'PDP-MCC1" | GATE #1, GEAR BOX & JB HEATERS | 20 | 246 | 'PDP-MCC2" | GATE #2, GEAR BOX & JB HEATERS | 20 | 346 | 'PDP-MCC3" | GATE #3, GEAR BOX & JB HEATERS | 20 | 446 | 'PDP-MCC4" | GATE #4, GEAR BOX & JB HEATERS | 20 |
| MTS FUSE DISCONNECT (POWER SUPPLY) | 4 x 1c#4/0 - Teck 1000V | 5 | 001 | REVENUE METER | DS-MTS1 | | 5 | | | | | | | | | | | | | | | |
| MTS POWER SUPPLY (HYDRO ONE) | 4 x 1c#4/0 - Teck 1000V | 5 | 002 | DS-MTS1 | MTS CAB. | | 5 | | | | | | | | | | | | | | | |
| MTS DISCONNECT (GENERATOR) | 4 x 1c#4/0 - Teck 1000V | 5 | 003 | GEN-PLUG | DS-GEN | | 5 | | | | | | | | | | | | | | | |
| MTS POWER SUPPLY (GENERATOR) | 4 x 1c#4/0 - Teck 1000V | 5 | 004 | DS-GEN | MTS CAB. | | 5 | | | | | | | | | | | | | | | |
| MAIN DISTRIBUTION CABINET - (MDC) - POWER SUPPLY | 4 x 1c#4/0 - Teck 1000V | 5 | 005 | MTS CAB. | MDC-MAIN Sect. 2 | | 5 | | | | | | | | | | | | | | | |
| LOCK/CONTROL BUILDING MAIN POWER SUPPLY 600V - TRANSFORMER DISCONNECT | 2 x 1c#1/0 - Teck 1000V | 160 | 006 | MDC-MAIN Sect. 1 | DS-XFO | | 160 | | | | | | | | | | | | | | | |
| 600V / 120-240V TRANSFORMER POWER SUPPLY | 2 x 1c#1/0 - Teck 1000V | 10 | 007 | DS-XFO | XFO-1 | | 10 | | | | | | | | | | | | | | | |
| EXISTING PANEL 120V/240V (SWING BRIDGE) | 3c500kcmil -Teck 600V | 10 | 008 | XFO-1 | PDP-MECLC | | 10 | | | | | | | | | | | | | | | |

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Project title / Titre du projet

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REPLACEMENT

Drawing title / Titre du dessin

ELECTRICAL
CABLE SCHEDULE

| | | | |
|--|--|-------------------------------------|--|
| Drawn by / Dessiné par | | Designed by / Conçu par | |
| P. AUGER | | P. AUGER | |
| Approved by / Approuvé par | | Drawing Date / Date du dessin | |
| A. GOLDSTYN | | 2019-10-31 | |
| Project manager / Administrateur de projet | | | |
| J. BIBEAU | | | |
| File Number / Numéro du Dossier | | Drawing Number/ Numéro du Dessin | |
| Project Number / Numéro du projet | | 208 | |
| 60522156 | | | |
| | | Sheet du | |