



Public Works  
Government Services  
Canada

Ontario Region

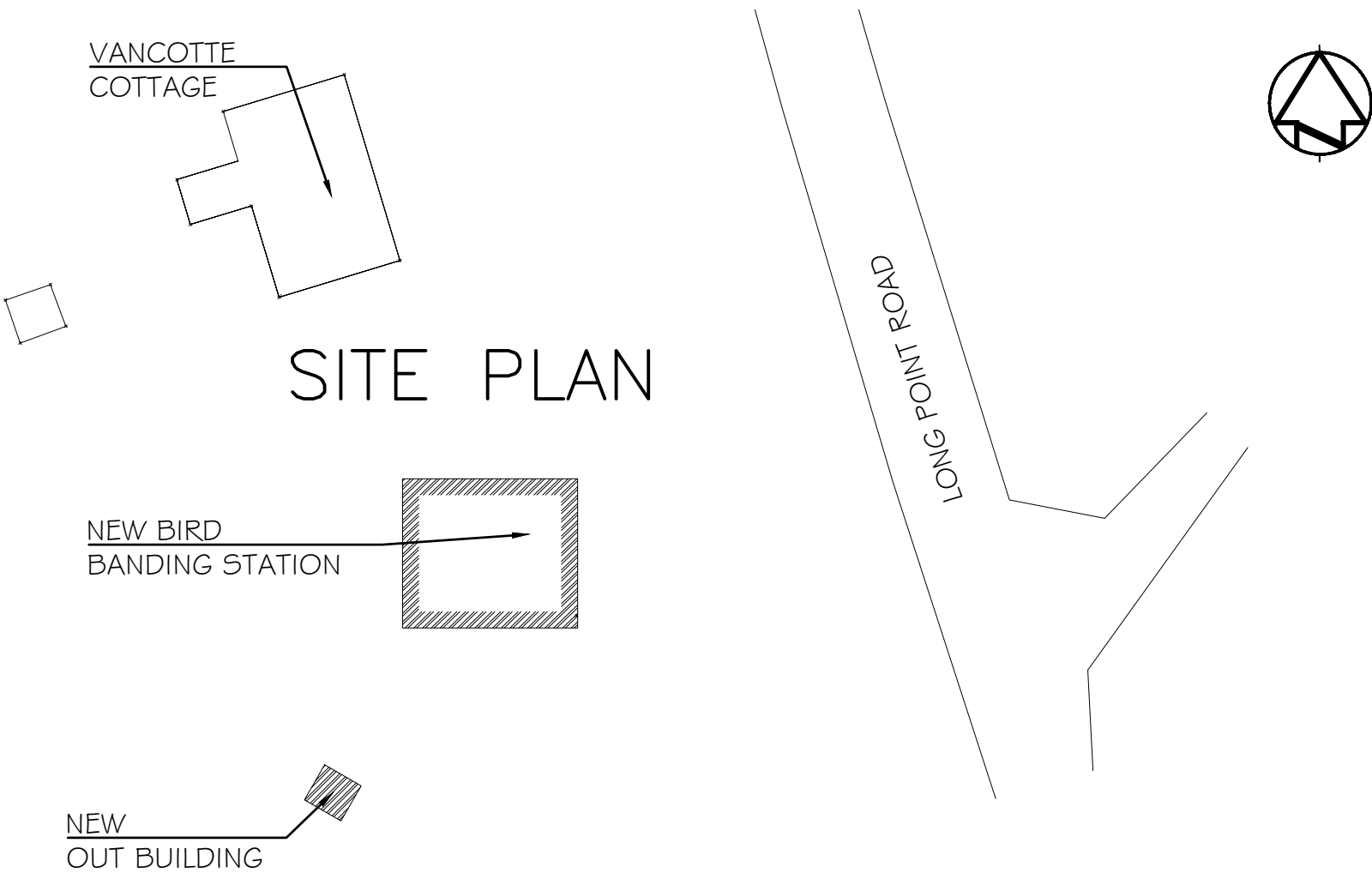
Travaux publics  
Services gouvernementaux  
Canada

R gion de l'Ontario

PRINCE EDWARD COUNTY, ONTARIO

PRINCE EDWARD POINT NATIONAL WILDLIFE AREA  
VISITOR'S EXPERIENCE IMPROVEMENTS

PSPC Proj. No.: R.080100.002



LIST OF DRAWINGS

| COVER SHEET   |                                       |
|---------------|---------------------------------------|
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| MECHANICAL    |                                       |
| M100          | MECHANICAL NOTES AND SCHEDULES        |
| M101          | VENTILATION AND PLUMBING              |
| ELECTRICAL    |                                       |
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| E101          | SINGLE LINE DIAGRAM                   |
| E102          | ELECTRICAL DISTRIBUTION AND LIGHTING  |
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|            |                                     |
|------------|-------------------------------------|
| WAYFINDING |                                     |
| W1         | SITE PLACEMENT MAP                  |
| W2         | FRONT VIEW OF SIGNAGE FAMILY        |
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| W4         | ARRIVAL SIGN DETAILS (1 UNIT)       |
| W5         | ORIENTATION SIGN DETAILS (5 UNITS)  |
| W6         | TRAIL MARKER SIGN DETAILS (5 UNITS) |
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| W11        | GRAPHIC ELEVATION SAMPLES           |
| W12        | GRAPHIC ELEVATION SAMPLES           |
| W13        | GRAPHIC ELEVATION SAMPLES           |

Watson MacEwen Teramura Architects  
Cleland Jardine Engineering Ltd.  
BPA Inc.  
Nuria Montblanch Design



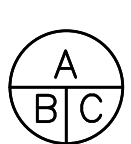
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Architects

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A Detail No.  
No. du d tail  
B drawing no. - where detail required  
dessin no. - o  d tail exig   
C drawing no. - where detailed  
dessin no. - o  d taill 

project title  
titre du projet  
ENVIRONMENT AND CLIMATE CHANGE CANADA  
Prince Edward Point National Wildlife Area  
VISITOR'S EXPERIENCE IMPROVEMENTS  
South Marysburgh Twp, Ontario

drawing title  
titre du dessin

COVER



drawn by  
dessine par  
HGM

designed by  
conc par  
AT

approved by  
approuve par

bid  
offre  
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MANAGER  
project manager  
administrateur  
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project date  
date du projet  
2018-08-24

project no.  
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R.080100.002

drawing no.  
dessine no.  
COVER SHEET

GENERAL NOTES

1. REVIEW ALL CONSTRUCTION DOCUMENTS AND REPORT ANY DISCREPANCIES TO THE DEPARTMENTAL REPRESENTATIVE PRIOR TO UNDERTAKING WORK.
2. DO NOT SCALE DIMENSIONS FROM DRAWINGS.
3. UNLESS OTHERWISE NOTED DIMENSIONS ARE TAKEN FROM CENTRE OF PARTITIONS; AND FROM THE EDGE OF WALLS.
4. UNLESS OTHERWISE NOTED, ALL PARTITIONS EXTEND TO THE UNDERSIDE OF ROOF SLAB ABOVE.
5. ALL MATERIALS AND COMPONENTS THAT ARE EXPOSED TO VIEW AND ARE NOT FACTORY PRE-FINISHED SHALL BE FINISHED WITH LINSEED OIL.
6. COORDINATE CEILING LAYOUT WITH ELECTRICAL.

ASSEMBLY TYPES

- ROOF TYPES

R1 ROOF TYPE R1 - STANDING SEAM SHEET METAL ROOF SYSTEM  
METAL STANDING SEAM ROOF  
METAL CLEATS  
SLIP SHEET  
UNDERLAYMENT  
SLOPED PRE-ENGINEERED CROSS-LAMINATED TIMBER (CLT) ROOF SLAB  
LINSEED OIL FINISH
- WALL TYPES

W1 EXTERIOR WALL - TYPE W1  
CEDAR BOARDS (VARIABLE EXPOSURE)  
19 X 38 STRAPPING @ 450 O.C.  
2 LAYERS BUILDING PAPER  
CLT WALL PANEL  
LINSEED OIL FINISH

W2 EXTERIOR WALL - TYPE W2  
CEDAR BOARDS (VARIABLE EXPOSURE)  
19 X 38 STRAPPING @ 450 O.C.  
2 LAYERS BUILDING PAPER  
CLT WALL PANEL  
BUILDING PAPER  
FULL HEIGHT PORTLAND CEMENT STUCCO or  
PORTLAND CEMENT STUCCO with BLACK BOARD (ABOVE STUCCO) or  
With 6 mm TACKBOARD ON 12.7 mm PLYWOOD BACKING (ABOVE STUCCO)

W3 EXTERIOR WALL - TYPE W3  
PORTLAND CEMENT STUCCO with  
BLACK BOARD (ABOVE STUCCO) or  
6 mm TACKBOARD ON 12.7 mm PLYWOOD BACKING (ABOVE STUCCO)  
2 LAYERS BUILDING PAPER  
CLT WALL PANEL  
LINSEED OIL FINISH

W4 EXTERIOR WALL - TYPE W4 (FRAME WALL)  
CEDAR BOARDS (VARIABLE EXPOSURE)  
38 X 140 DRESSED DOUGLAS FIR FRAMING  
LINSEED OIL FINISH

W5 EXTERIOR WALL - TYPE W5 (WATER CLOSET)  
CEDAR BOARDS (VARIABLE EXPOSURE)  
19 X 38 STRAPPING @ 450 O.C.  
2 LAYERS BUILDING PAPER  
SHEATHING (GOOD ONE SIDE PLYWOOD)  
38 X 140 DRESSED PINE STUDS  
LINSEED OIL FINISH
- PARTITION TYPES

P1 MILLWORK PARTITION TYPE P1  
DOUGLAS FIR LUMBER CORE PLYWOOD  
38 X 89 SPF STUDS  
ALUMINIUM TRACK

P2 PARTITION TYPE P2 - CLT PANEL  
25 mm CLT PANEL

P3 PARTITION TYPE P3 - CLT PANEL  
25 mm CLT PANEL

LEGEND

SYMBOLS

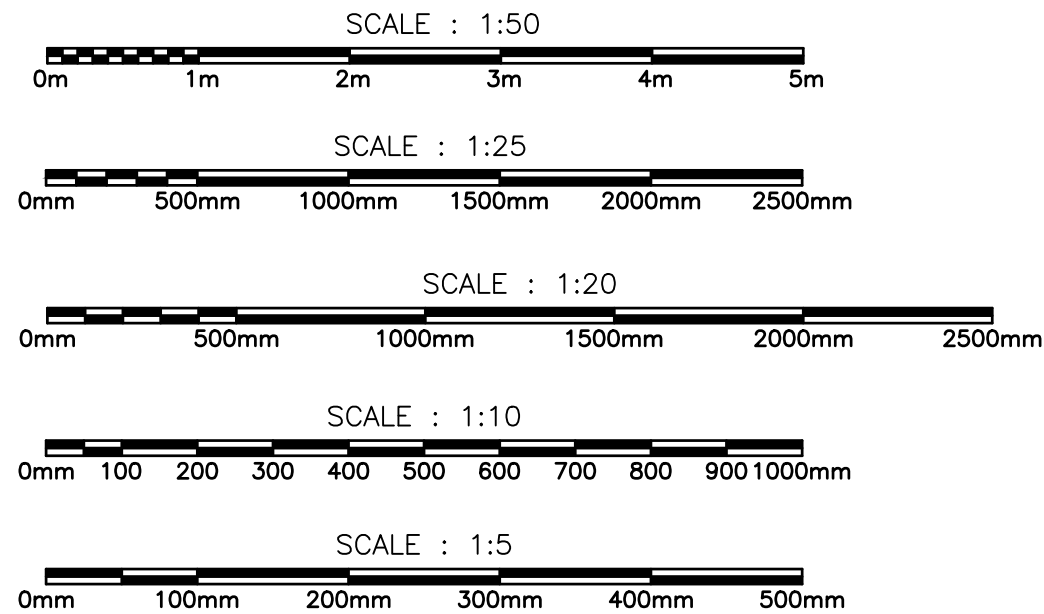
- PARTITION TYPE
- WALL TYPE
- WINDOW NUMBER
- DOOR NUMBER
- ROOM NUMBER
- CEILING MOUNTED LIGHT FIXTURE
- ULTRAVIOLET LIGHT FIXTURE
- DUPLEX RECEPTACLE - 120V, 15A
- DUPLEX RECEPTACLE - 120V, 15A MOUNTED AB
- SINGLE POLE LIGHT SWITCH
- MOTOR CONNECTION - SINGLE PHASE
- DOOR OPENING
- BI-FOLDING DOOR

OPENINGS

- JALOUSIE WINDOW
- INWARD OPENING CASEMENT WINDOW
- FIXED WINDOW
- FIXED SKYLIGHT
- VENTING SKYLIGHT

HATCH PATTERNS

- CLT WALL / ROOF PANEL
- PATTERNED FILM GLAZING
- SMOOTH STUCCO
- METAL ROOF



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A

B

C

Detail No.  
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Prince Edward Point National Wildlife Area  
VISITOR’S EXPERIENCE IMPROVEMENTS

South Marysburgh Twp, Ontario

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PROJECT  
DATA

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HGM

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conc par

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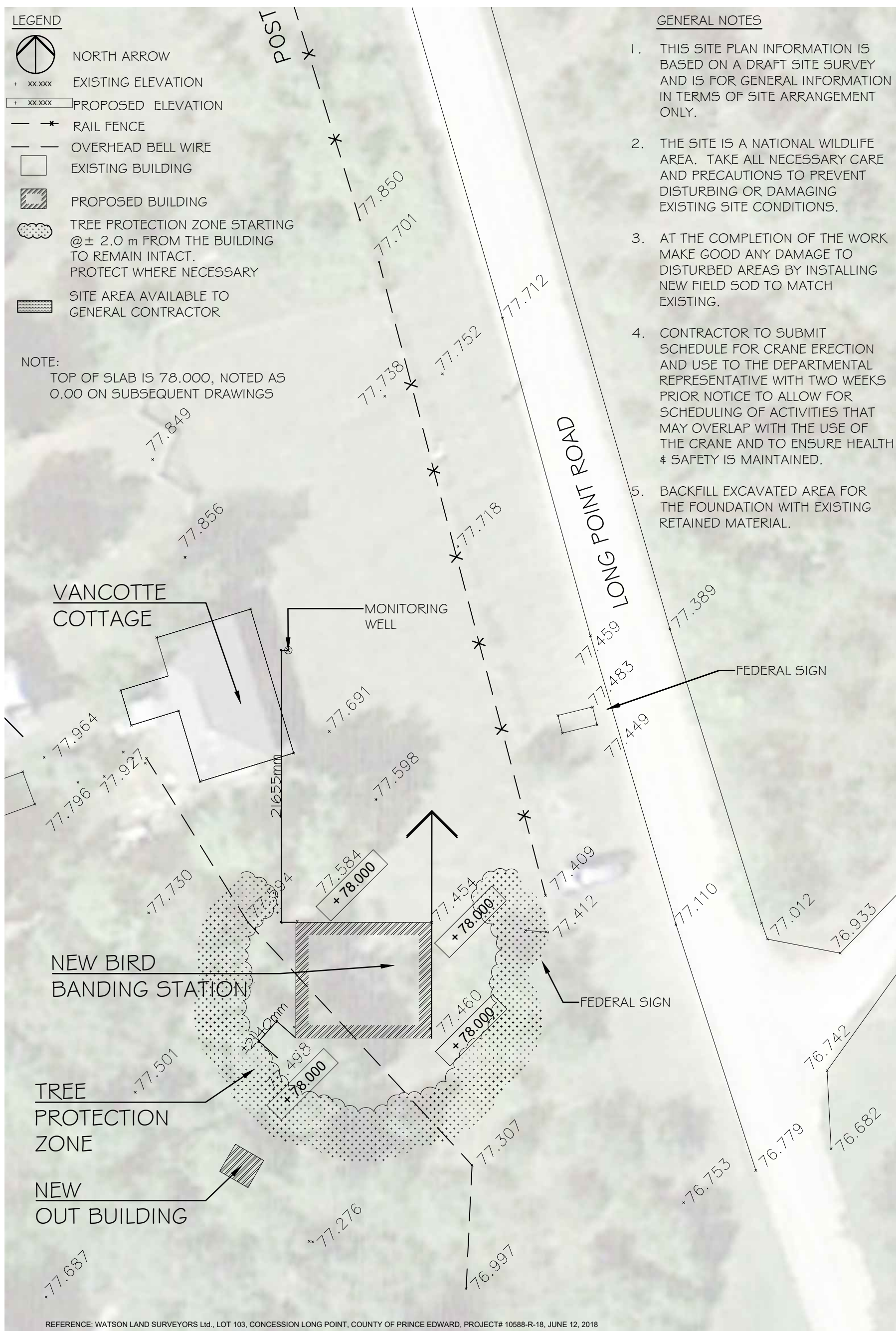
A0





1 MASTER SITE PLAN

1:5000



2 SITE PLAN

1:300



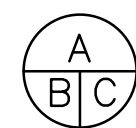
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Prince Edward Point National Wildlife Area  
VISITOR'S EXPERIENCE IMPROVEMENTS

South Marysburgh Twp, Ontario

drawing title  
titre du dessin

SITE PLAN



drawn by  
dessiné par

HGM / GA

designed by  
conc par

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drawing no.  
dessiné no.

A1





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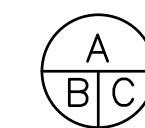
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South Marysburgh Twp, Ontario

drawing title  
titre du dessin

FLOOR PLAN



drawn by  
dessiné par

HGM

designed by  
conc par

AT

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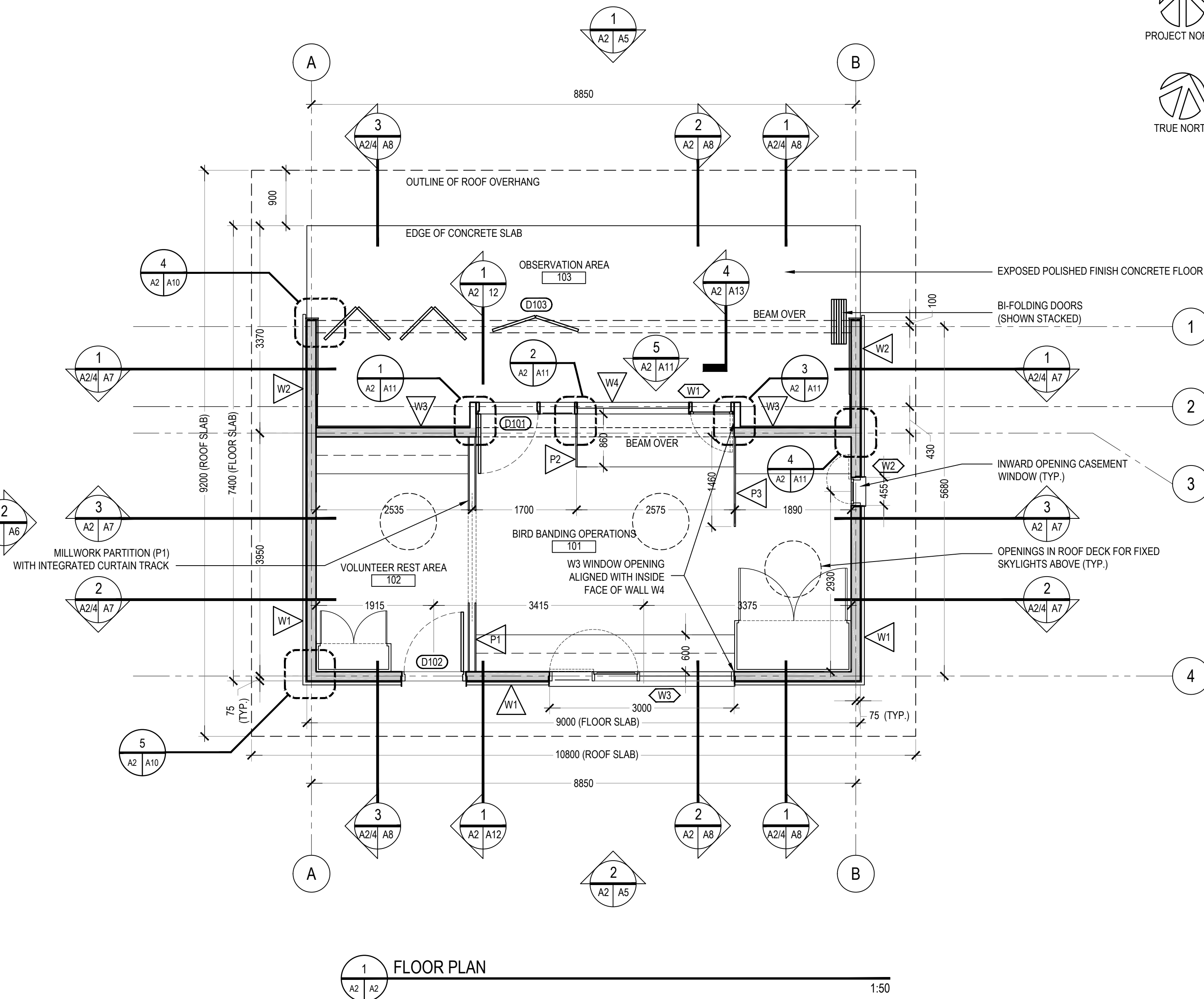
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dessiné no.

A2



1 FLOOR PLAN

1:50

SCALE : 1:50







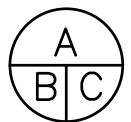
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Prince Edward Point National Wildlife Area  
VISITOR'S EXPERIENCE IMPROVEMENTS  
South Marysburgh Twp, Ontario

drawing title  
titre du dessin

REFLECTED  
CEILING PLAN



drawn by  
dessiné par

HGM

designed by  
conc par

AT

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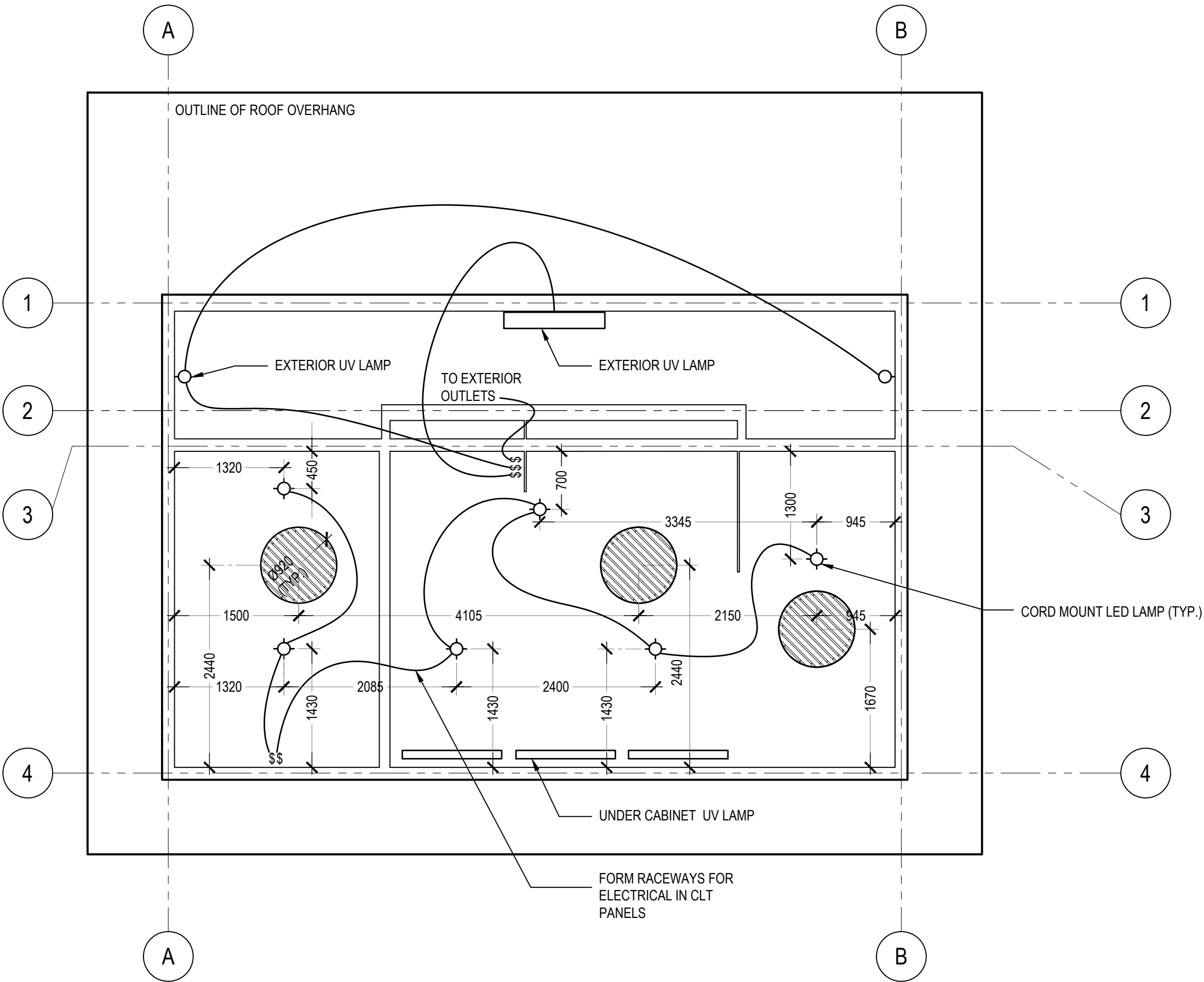
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A3



1 REFLECTED CEILING PLAN  
A3 A3

1:50

SCALE : 1:50





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ROOF PLAN



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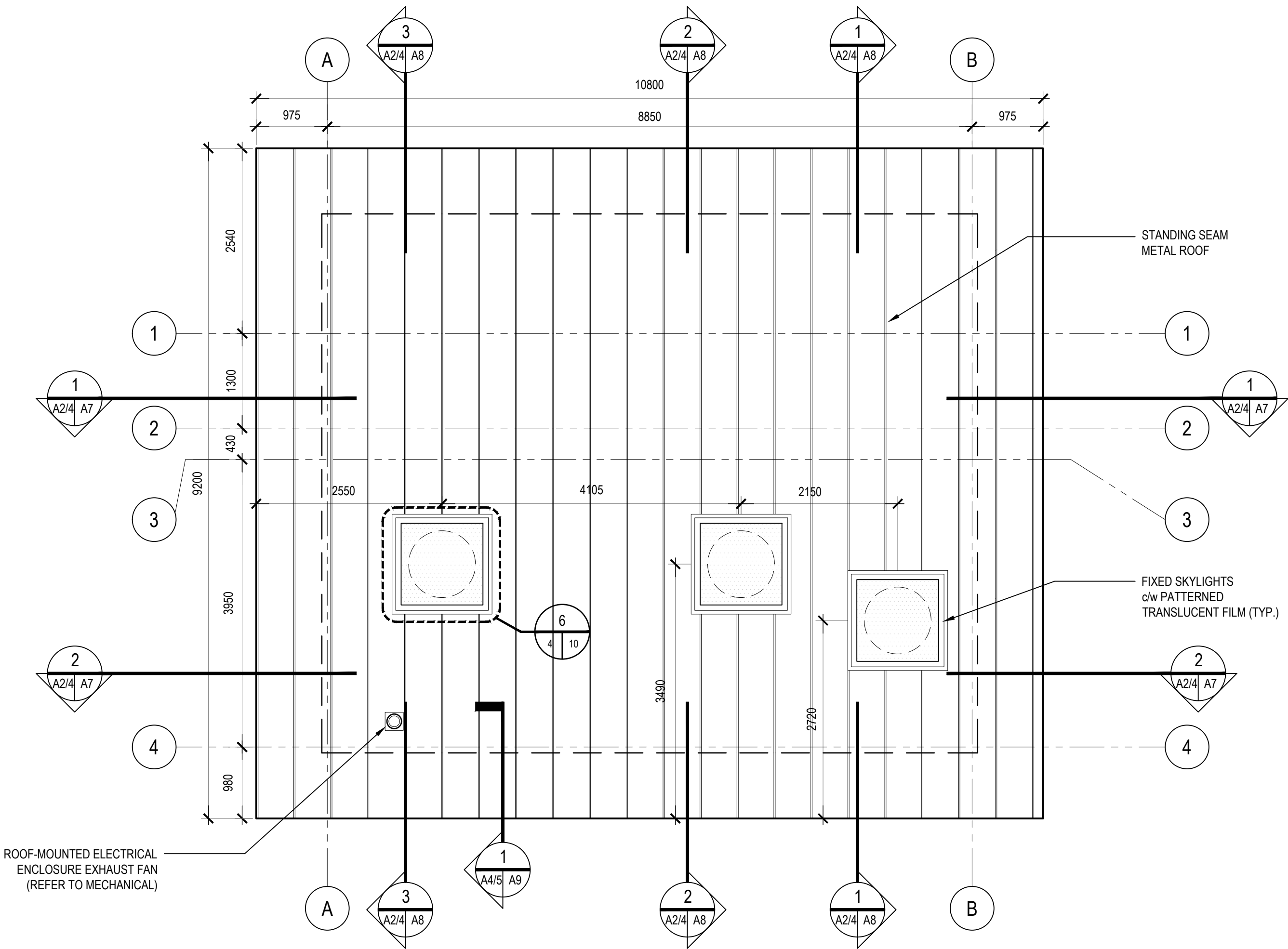
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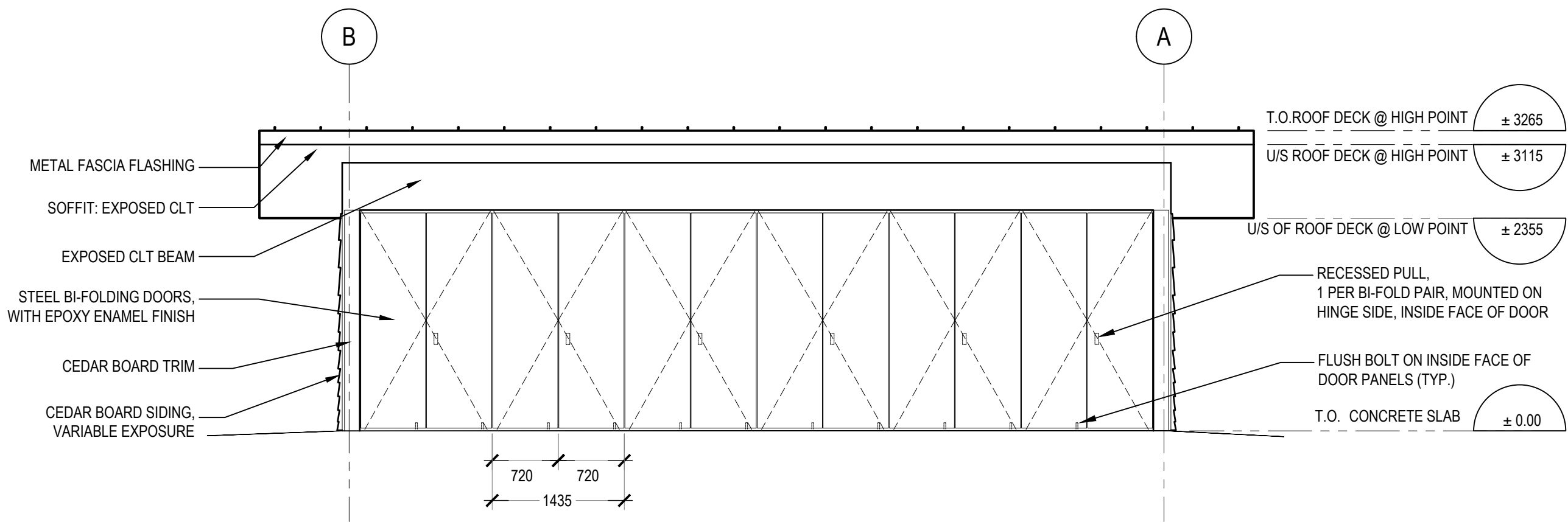
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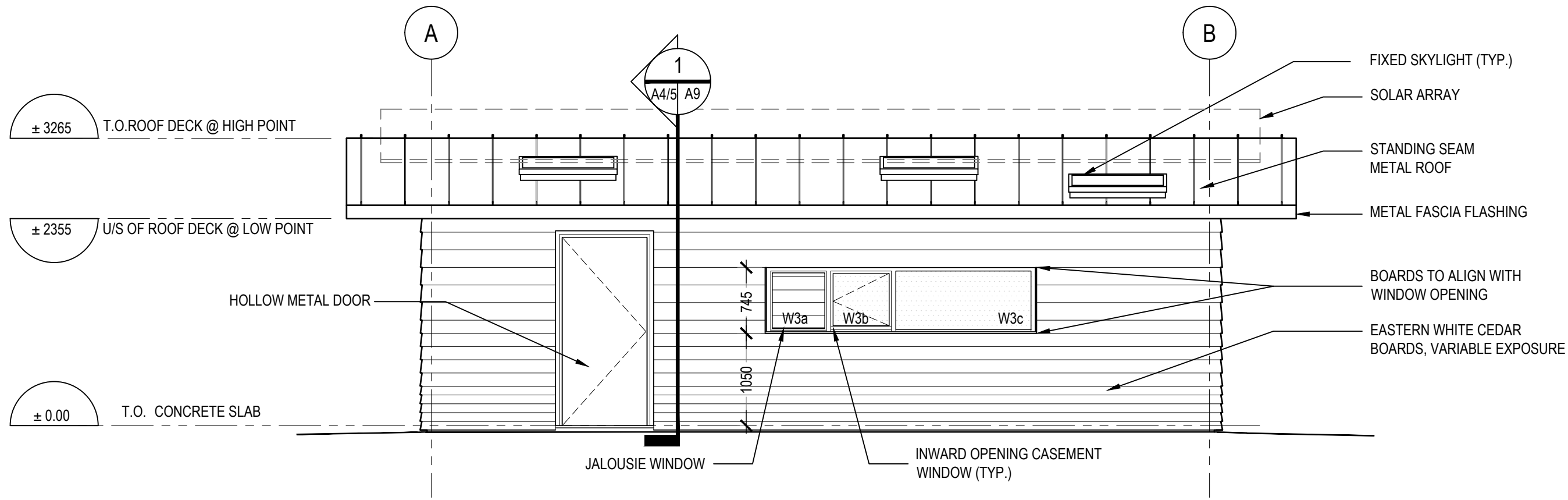
A4







1 NORTH ELEVATION  
A2 A5  
1:50



2 SOUTH ELEVATION  
A2 A5  
1:50

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

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South Marysburgh Twp, Ontario

drawing title  
titre du dessin  
  
**BUILDING  
ELEVATIONS 1**



drawn by  
dessine par  
**HGM**

designed by  
conc par  
**AT**

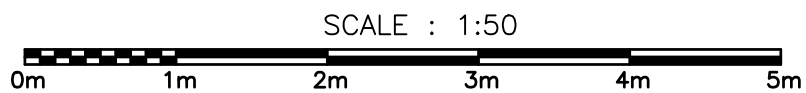
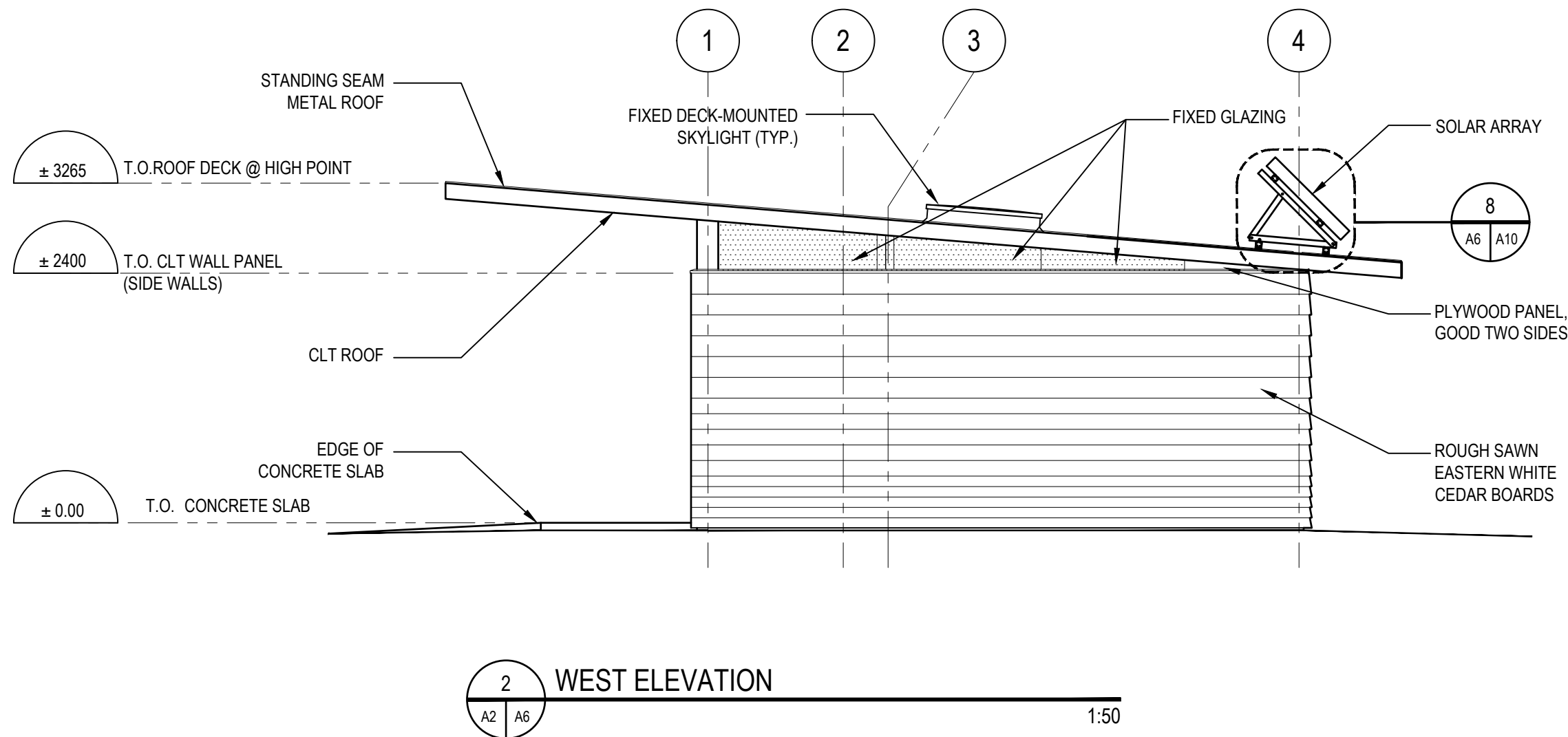
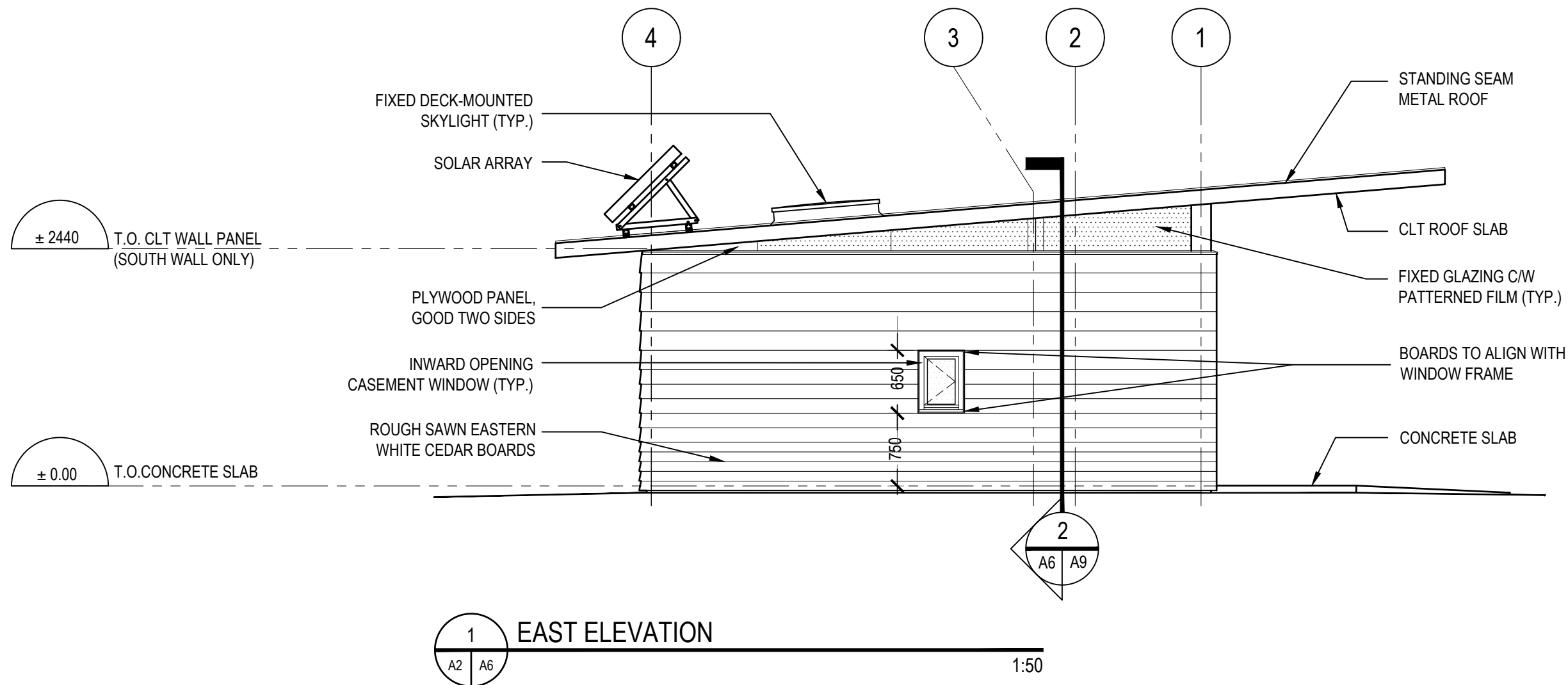
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**A5**



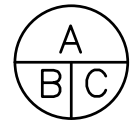
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BUILDING  
ELEVATIONS 2



drawn by  
dessiné par

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conçu par

AT

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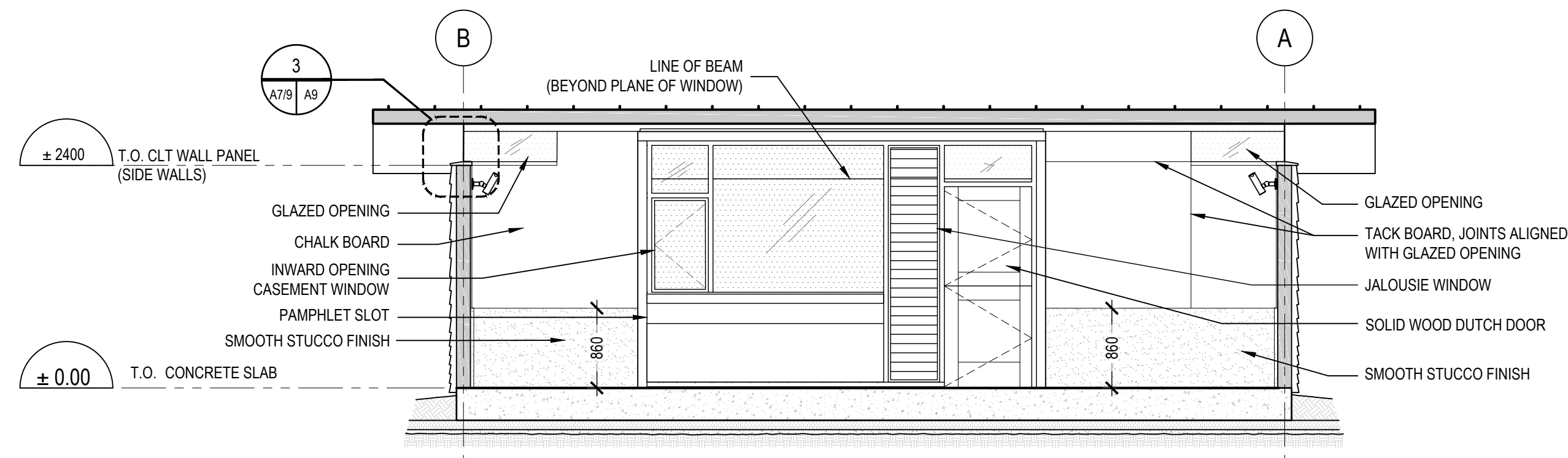
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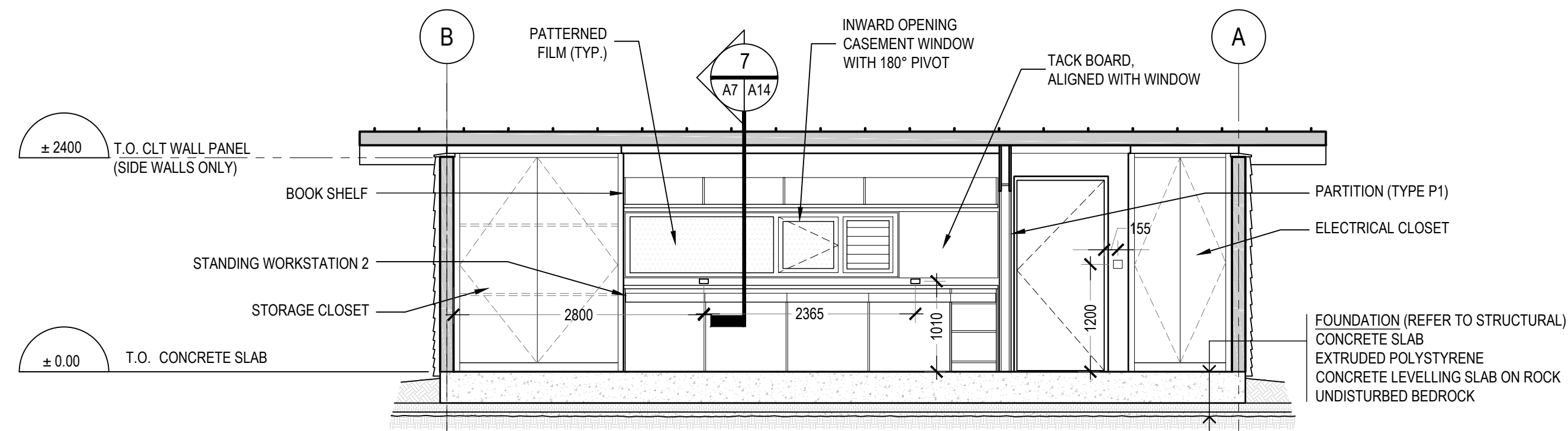
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A6

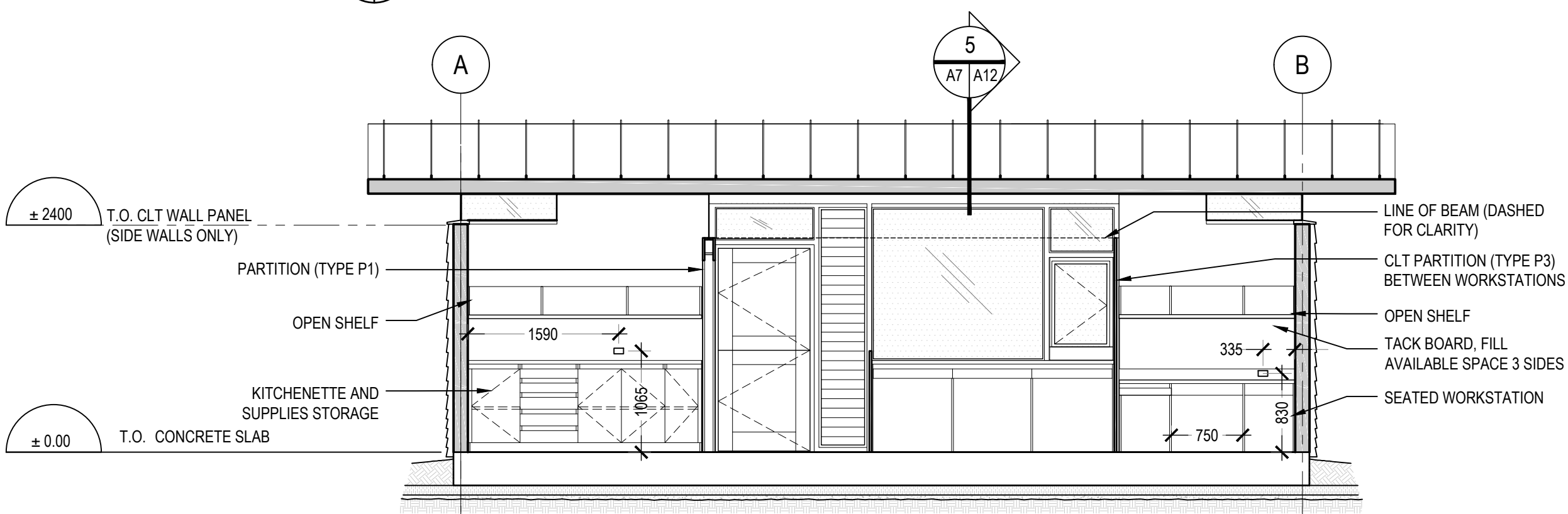




1 BUILDING SECTION 1  
LOOKING SOUTH 1:50



2 BUILDING SECTION 2  
LOOKING SOUTH 1:50



3 BUILDING SECTION 3  
LOOKING NORTH 1:50

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



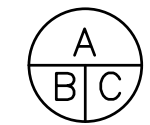
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BUILDING  
SECTIONS 1



drawn by  
dessiné par

HGM

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MANAGER

project manager  
administrateur  
de projets

project date  
date du projet

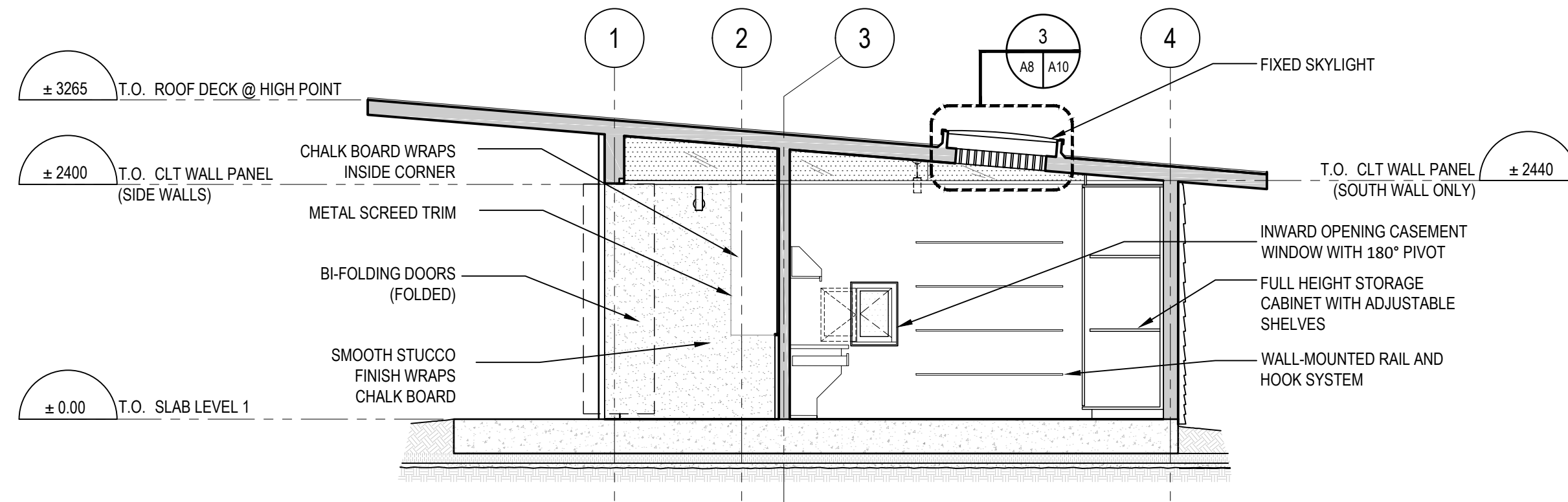
2018-08-24

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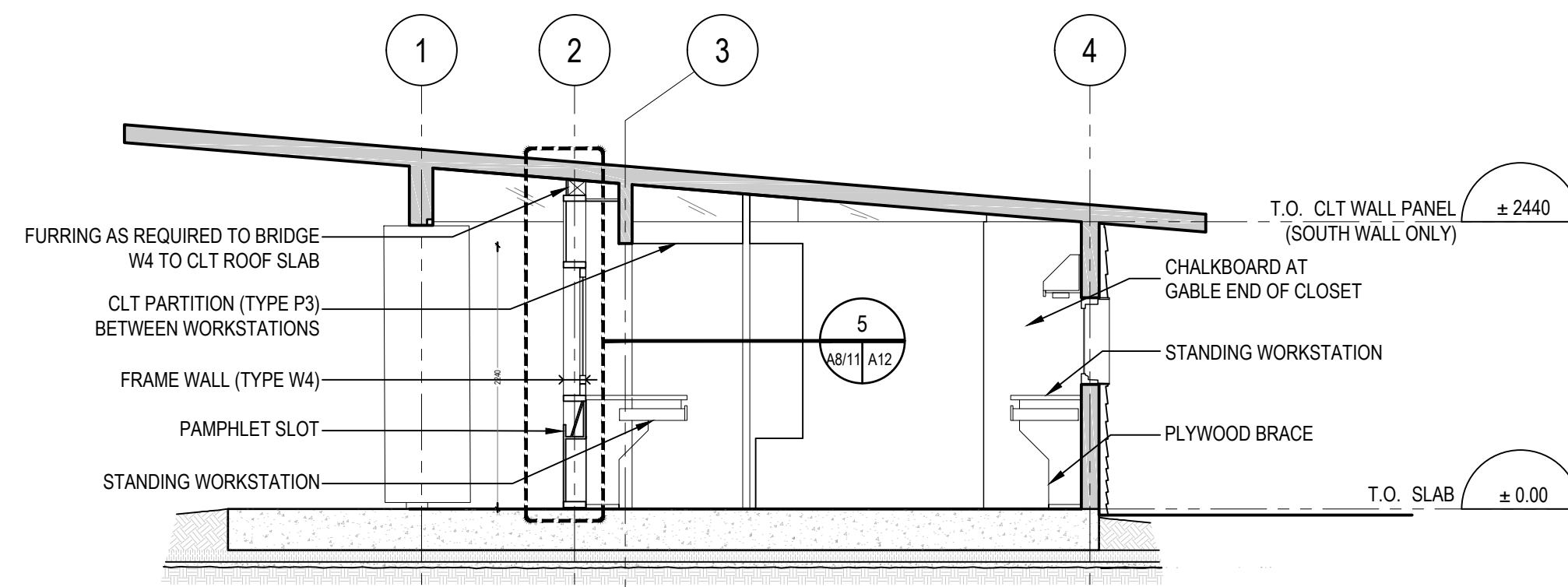
R.080100.002

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dessiné no.

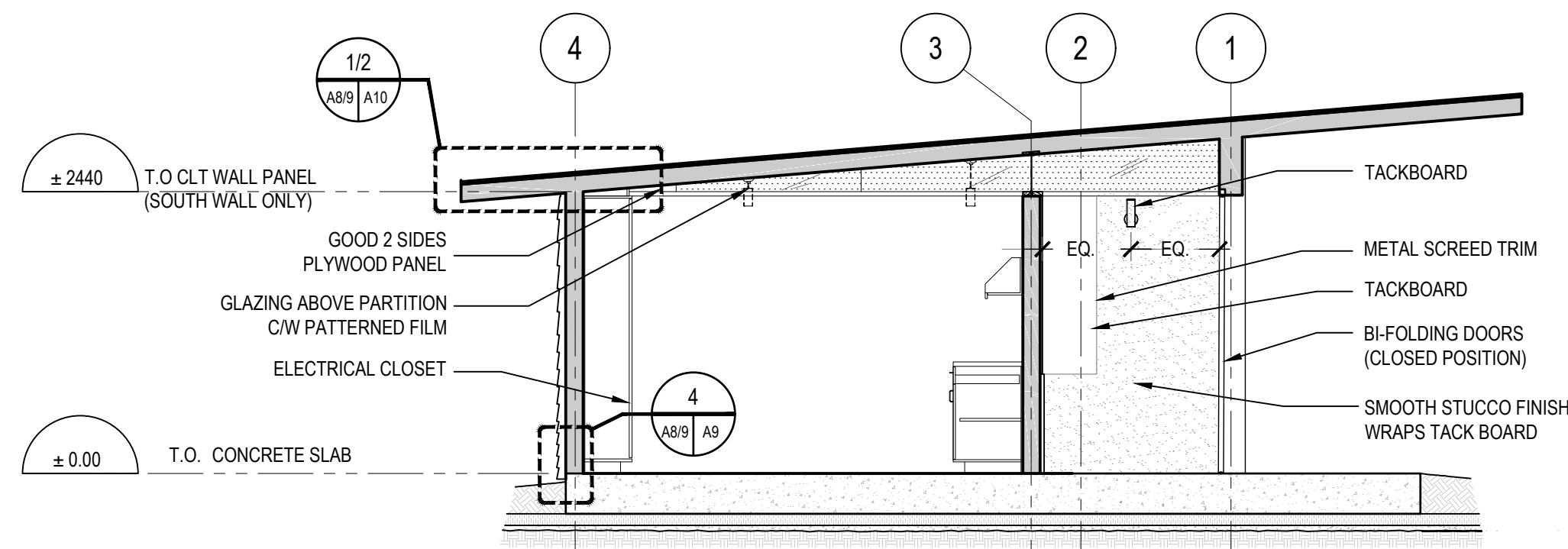
A7



1 BUILDING SECTION 1  
LOOKING EAST  
1:50



2 BUILDING SECTION 2  
LOOKING EAST  
1:50



3 BUILDING SECTION 3  
LOOKING WEST  
1:50

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



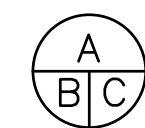
Public Works and  
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Travaux publics et  
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## Watson MacEwen Teramura Architects

400-116 Lisgar Street | Ottawa Ontario | Canada K2P 0C2 | 613.232.0330

| revision |                   | date        |
|----------|-------------------|-------------|
| 03       | ISSUED FOR TENDER | 24 AUG 2018 |
| 02       | 99% SUBMISSION    | 3 AUG 2018  |
| 01       | 66% SUBMISSION    | 6 JULY 2018 |

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ENVIRONMENT AND CLIMATE CHANGE CANADA  
Prince Edward Point National Wildlife Area  
VISITOR'S EXPERIENCE IMPROVEMENTS

South Marysburgh Twp, Ontario

drawing title  
titre du dessin

BUILDING  
SECTIONS 2



drawn by  
dessiné par

HGM

designed by  
conc par

AT

approved by  
approuvé par

bid  
offre

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MANAGER

project manager  
administrateur  
de projets

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2018-08-24

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drawing no.  
dessiné no.

A8



ROOF TYPE 1 - SHEET METAL  
STANDING SEAM METAL ROOF  
METAL CLEATS  
SLIP SHEET  
UNDERLAYMENT  
CLT ROOF PANEL  
LINSEED OIL FINISH

4

± 2440 T.O. CLT WALL PANEL  
(SOUTH WALL)

1/2  
A8/9 A10

EXTERIOR WALL - TYPE W1  
CEDAR BOARDS  
2 LAYERS BUILDING PAPER  
19 X 38 STRAPPING @ 450 O.C.  
CLT WALL PANEL  
LINSEED OIL FINISH

EXTERIOR

INTERIOR

4  
A8/9 A9

± 0.00 T.O. SLAB LEVEL

REFER TO  
STRUCTURAL FOR  
FOUNDATION DETAILS

1 W1 - WALL ASSEMBLY  
SECTION DETAIL

1:10

3  
A7/9 A9

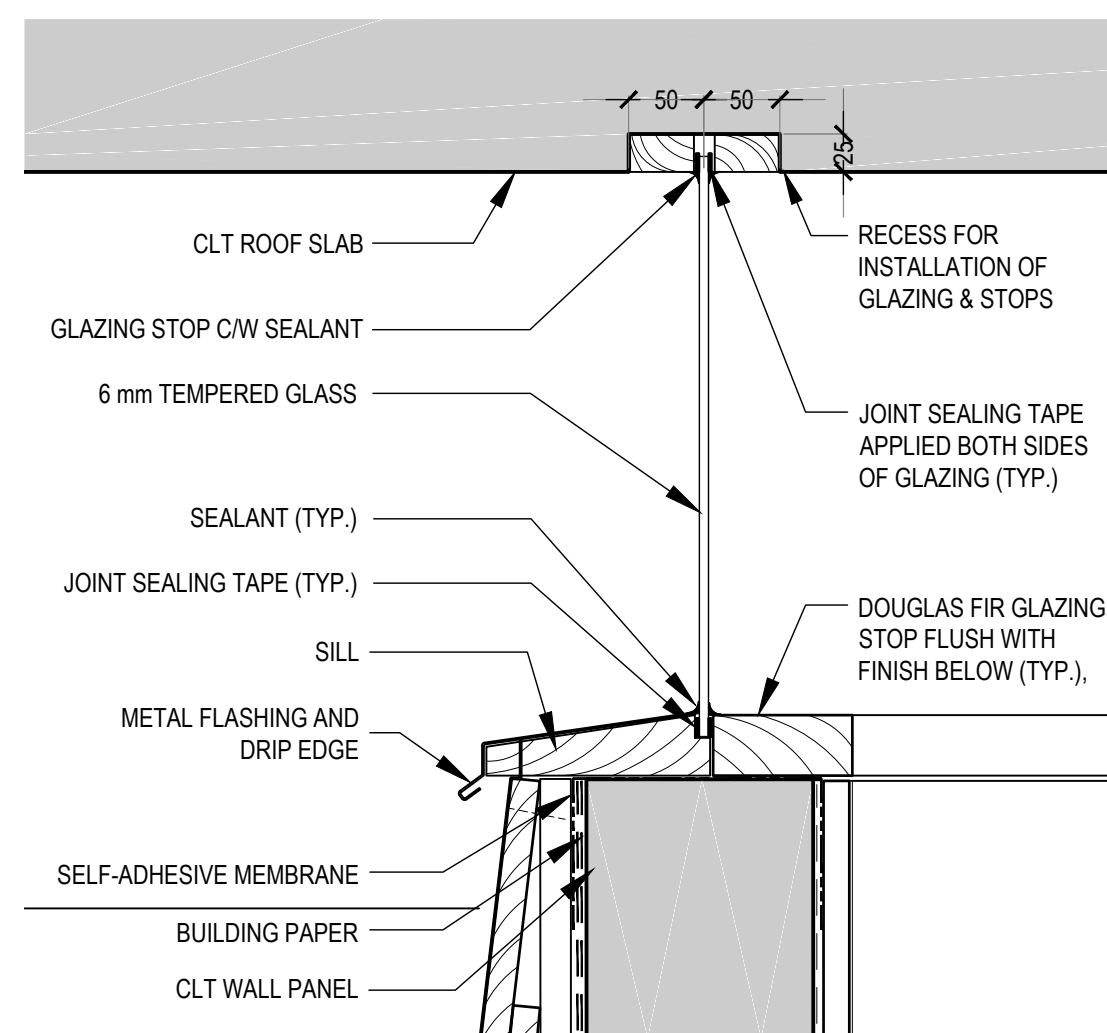
EXTERIOR WALL - TYPE W2 (ABOVE)  
CEDAR BOARDS (VAR. EXPOSURE)  
19 X 38 STRAPPING @ 450 O.C.  
2 LAYERS BUILDING PAPER  
CLT WALL PANEL  
BUILDING PAPER  
BLACKBOARD

BOARD EXPOSURE PATTERN  
100 EXPOSURE - 150 mm BOARD  
150 EXPOSURE - 200 mm BOARD  
200 EXPOSURE - 250 mm BOARD

EXTERIOR WALL - TYPE W2 (BELOW)  
CEDAR BOARDS (VAR. EXPOSURE)  
19 X 38 STRAPPING @ 450 O.C.  
2 LAYERS BUILDING PAPER  
CLT WALL PANEL  
BUILDING PAPER  
WIRE LATH  
25 mm STUCCO

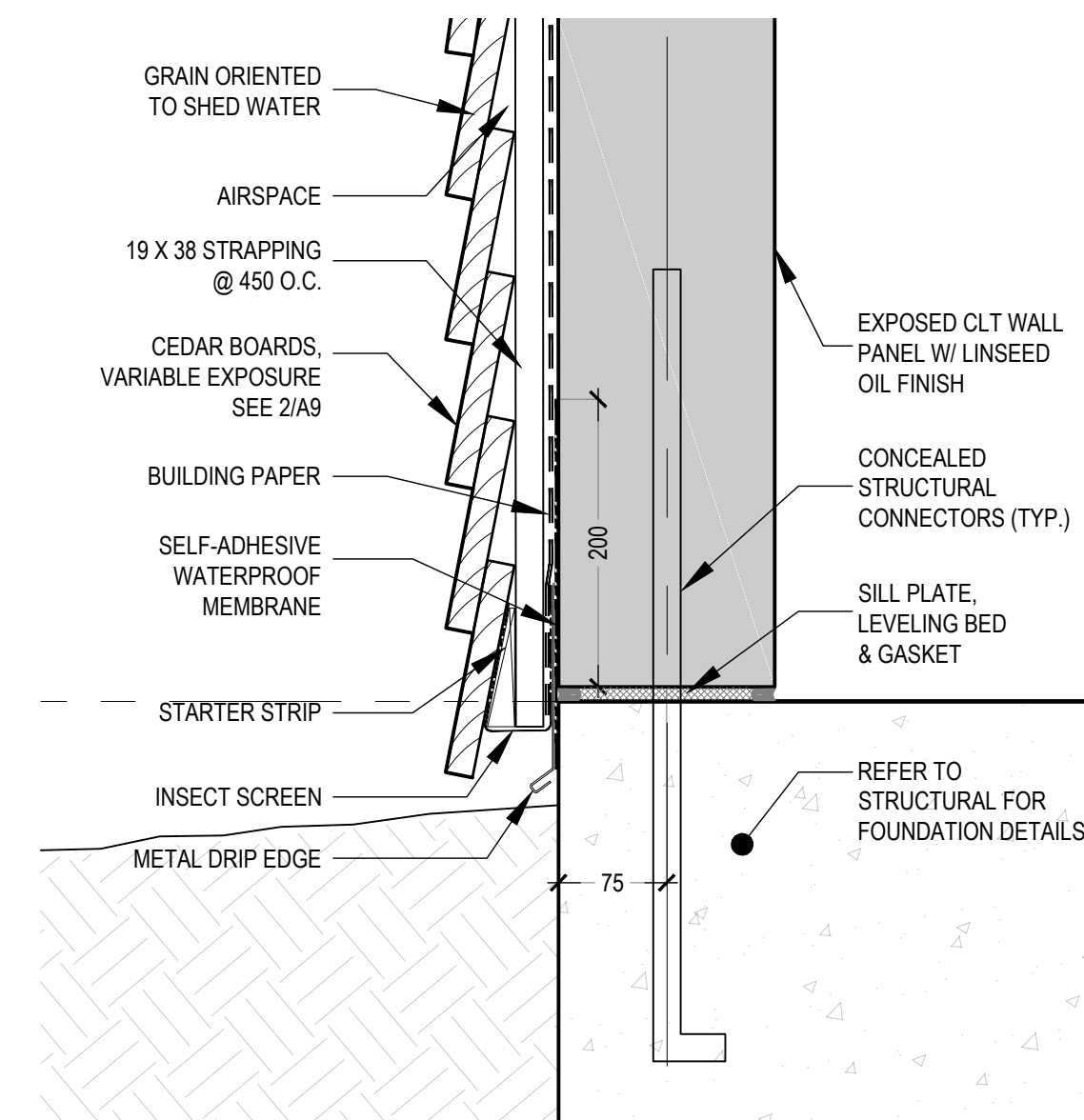
2 W2 - WALL ASSEMBLY  
SECTION DETAIL

1:10



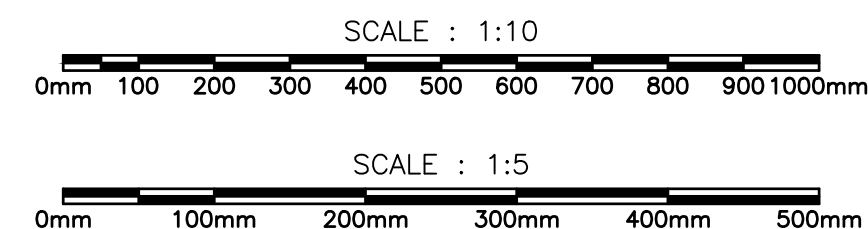
3 GLAZED INFILL PANEL  
SECTION DETAIL

1:5



4 WALL FOUNDATION INTERSECTION  
SECTION DETAIL

1:5



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**Watson MacEwen Teramura  
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Prince Edward Point National Wildlife Area  
VISITOR'S EXPERIENCE IMPROVEMENTS

South Marysburgh Twp, Ontario

drawing title  
titre du dessin

SECTION  
DETAILS 1



drawn by  
dessiné par

HGM

designed by  
conc par

AT

approved by  
approuvé par

bid  
offre

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project manager  
administrateur  
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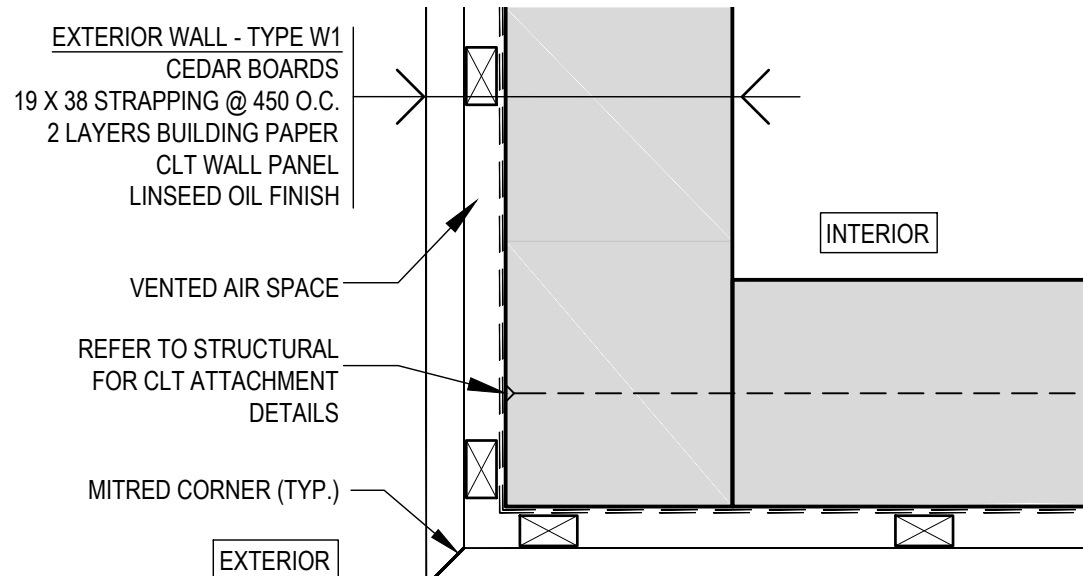
2018-08-24

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dessiné no.

A9







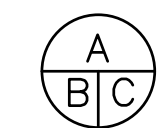
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Prince Edward Point National Wildlife Area  
VISITOR'S EXPERIENCE IMPROVEMENTS

South Marysburgh Twp, Ontario

drawing title  
titre du dessin

### SECTION DETAILS 3



drawn by  
dessiné par

HGM

designed by  
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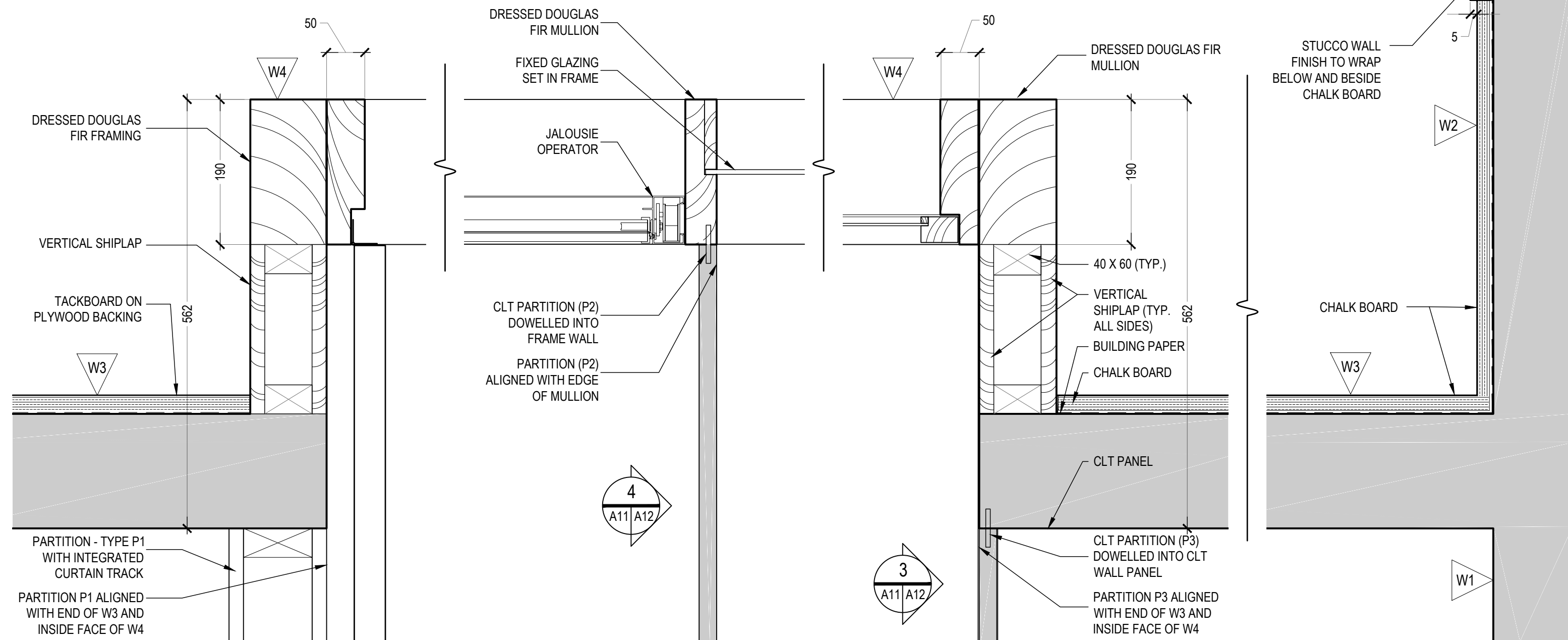
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drawing no.  
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A11

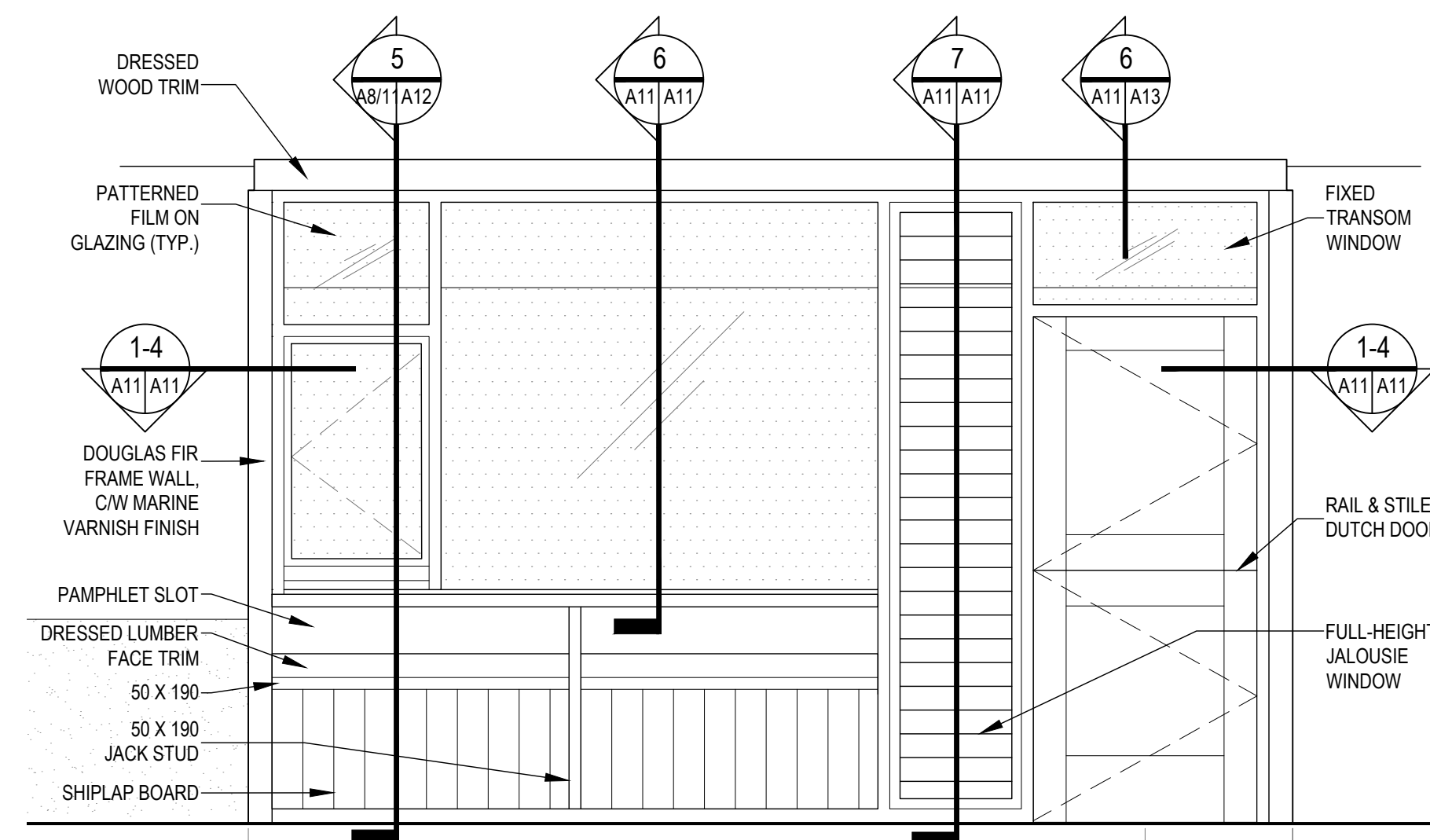


1 CLT / FRAME WALL CONNECTION  
PLAN DETAIL 1 1:5

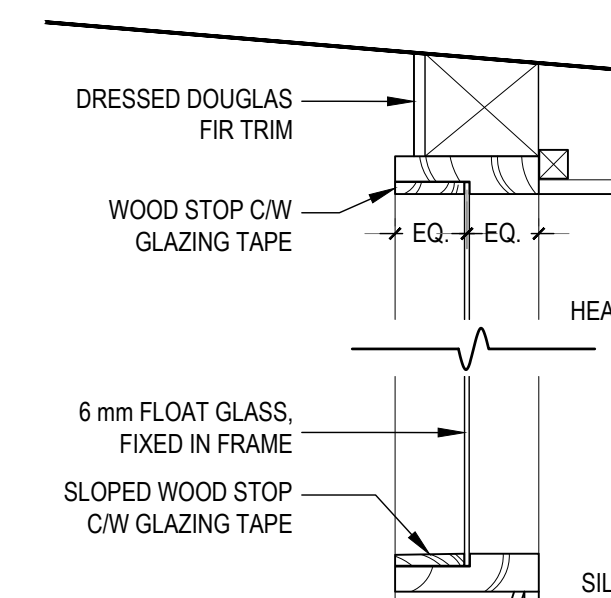
2 FRAME WALL DETAIL - W4  
PLAN DETAIL 2 1:5

3 FRAME WALL / CLT CONNECTION  
PLAN DETAIL 3 1:5

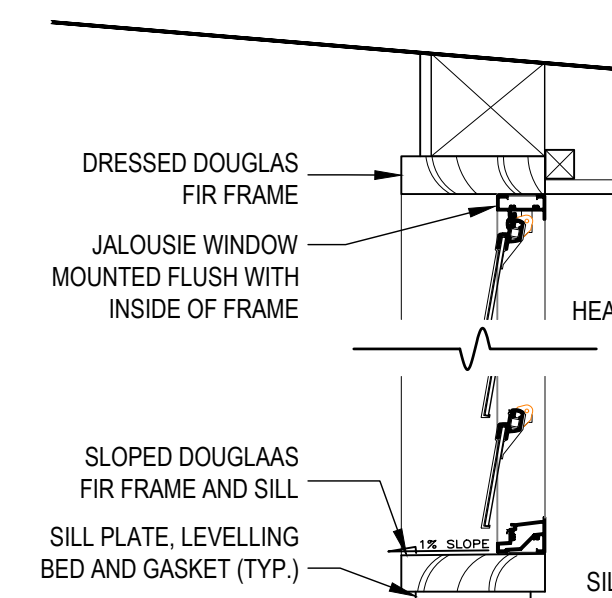
4 CLT WALL INTERSECTION  
PLAN DETAIL 4 1:5



5 FRAME WALL - W4  
ELEVATION DETAIL 1:25



6 FRAME WALL - W4  
SECTION DETAIL 1 1:10



7 FRAME WALL - W4  
SECTION DETAIL 2 1:10

SCALE : 1:25  
0mm 500mm 1000mm 1500mm 2000mm 2500mm

SCALE : 1:10  
0mm 100 200 300 400 500 600 700 800 900 1000mm

SCALE : 1:5  
0mm 100mm 200mm 300mm 400mm 500mm



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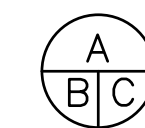
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Prince Edward Point National Wildlife Area  
VISITOR'S EXPERIENCE IMPROVEMENTS

South Marysburgh Twp, Ontario

drawing title  
titre du dessin

SECTION  
DETAILS 4



drawn by  
dessiné par HGM

designed by  
conc par AT

approved by  
approuvé par

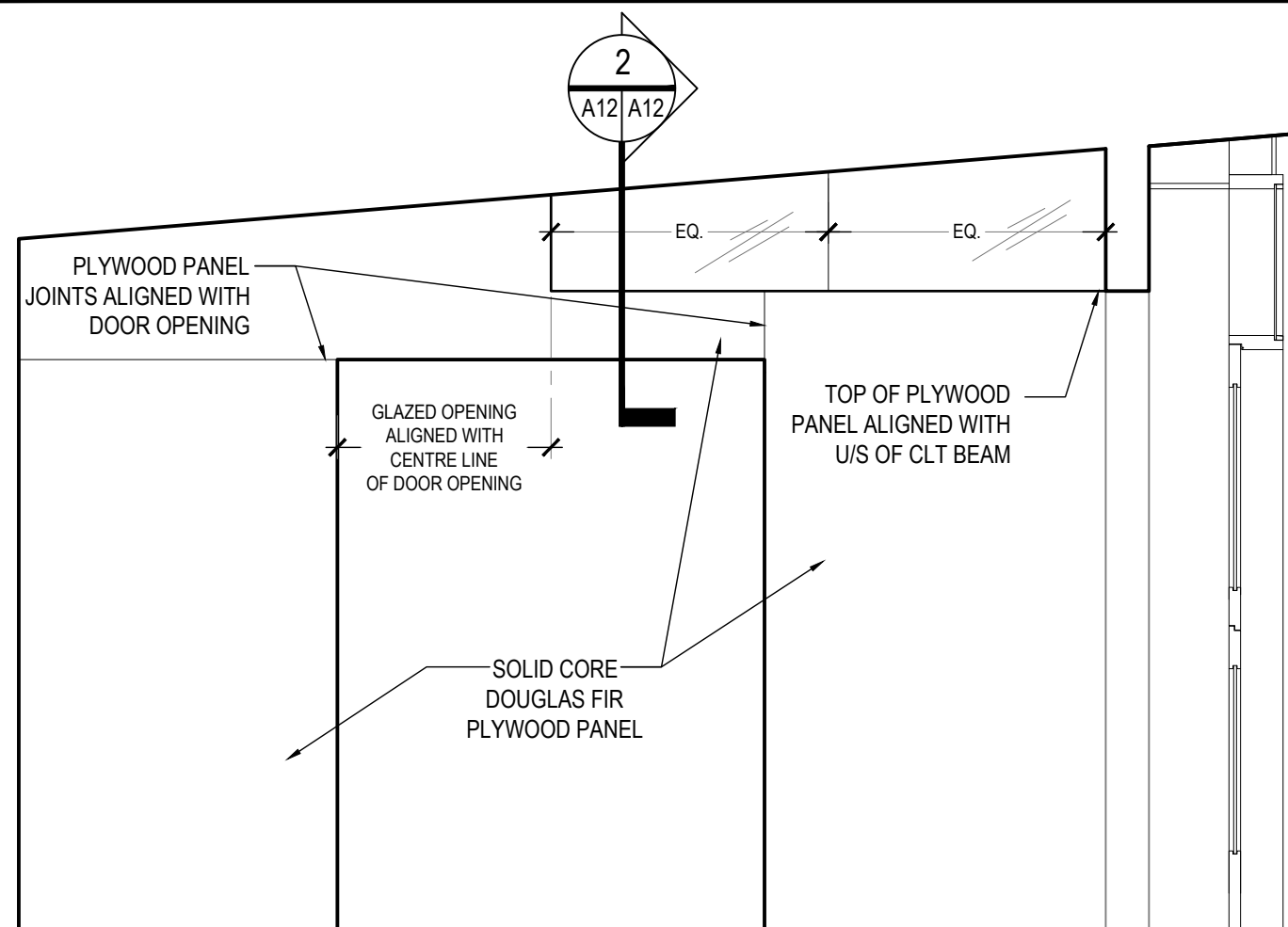
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offre PSPC PROJECT  
MANAGER

project manager  
administrateur  
de projets

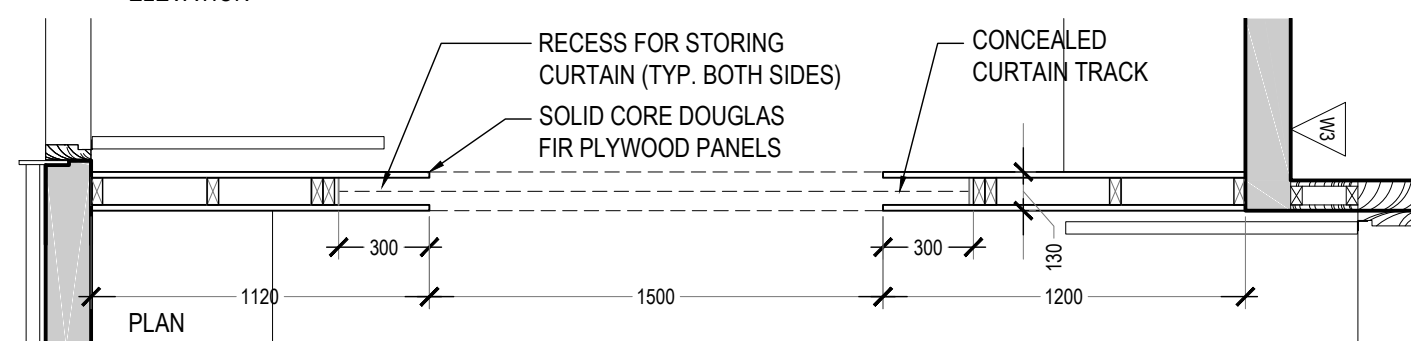
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date du projet 2018-08-24

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no. du projet R.080100.002

drawing no.  
dessiné no. A12



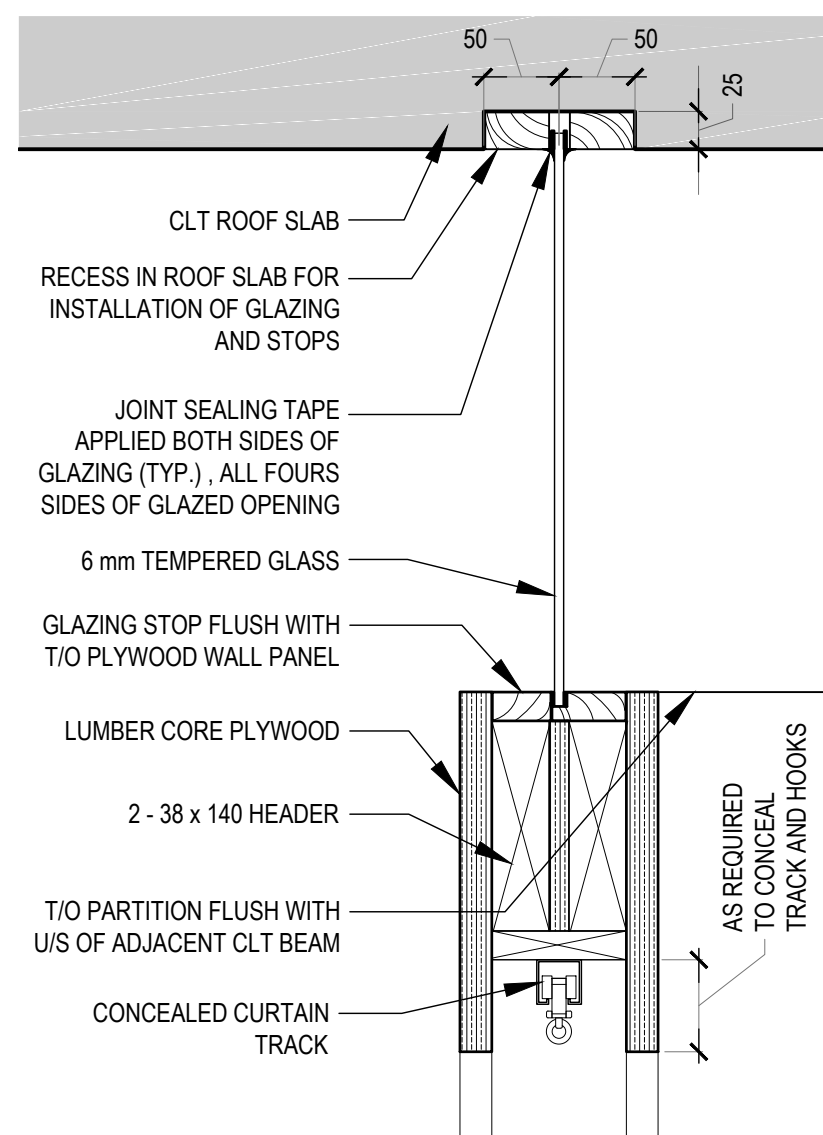
ELEVATION



PLAN

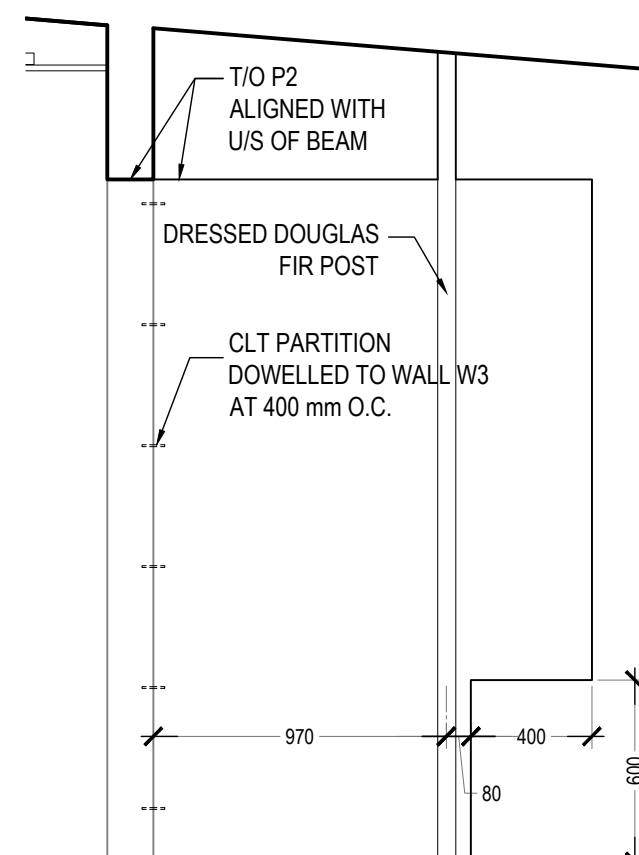
1 PARTITION P1  
A2 A12 PLAN AND ELEVATION DETAILS

1:25

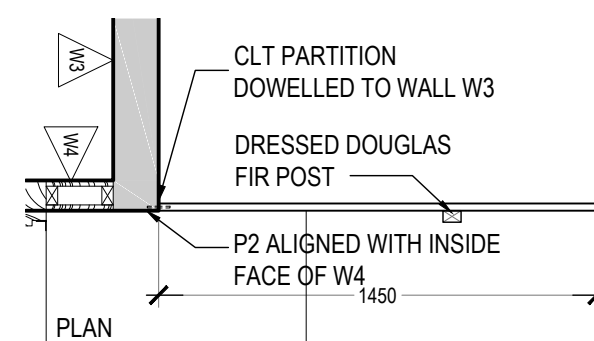


2 PARTITION P1  
A12 A12 SECTION DETAIL

1:5



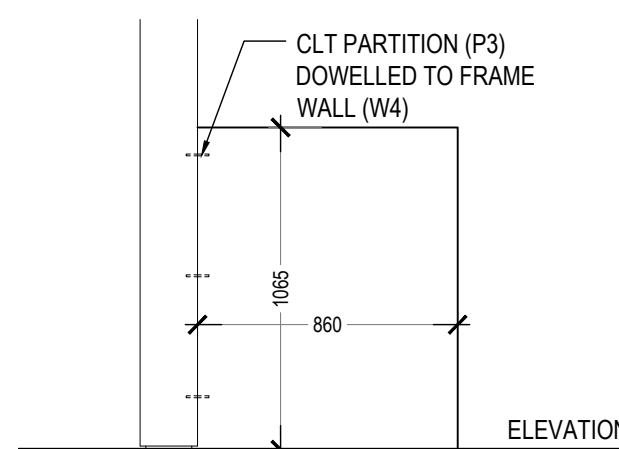
ELEVATION



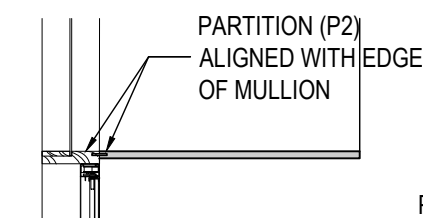
PLAN

3 PARTITION P3  
A11 A12 SECTION DETAILS

1:25



ELEVATION



PLAN

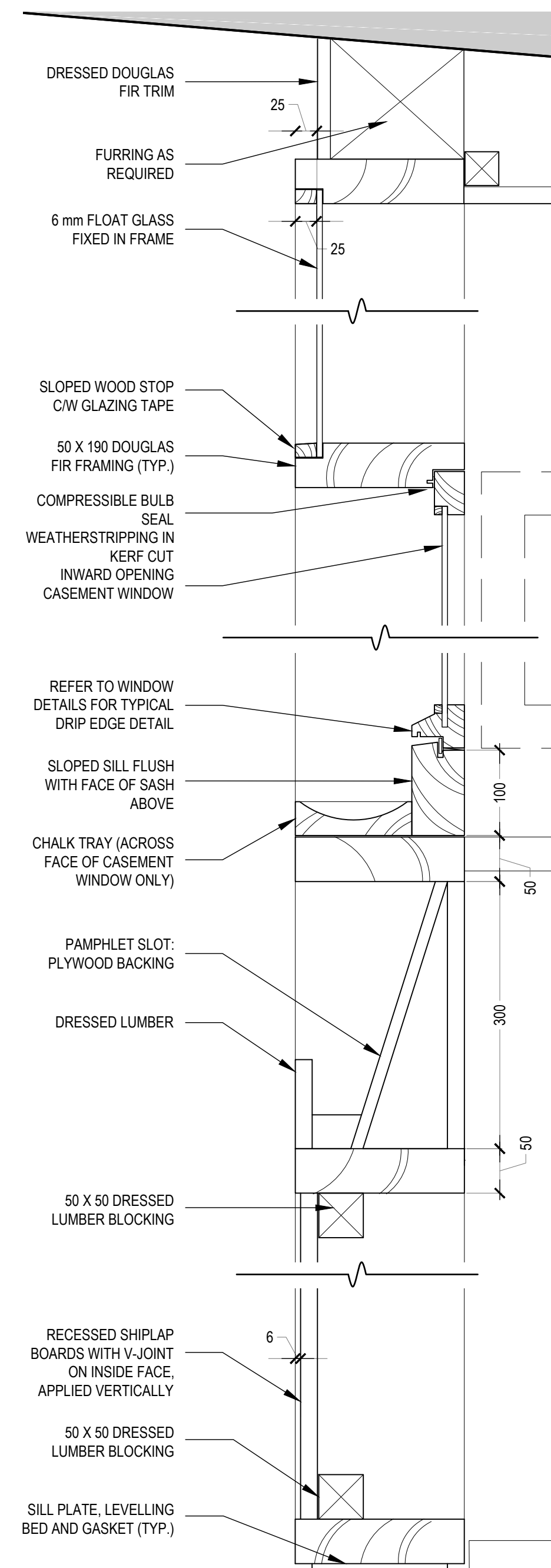
4 PARTITION P2  
A11 A12 SECTION DETAILS

1:10

SCALE : 1:25  
0mm 500mm 1000mm 1500mm 2000mm 2500mm

SCALE : 1:10  
0mm 100 200 300 400 500 600 700 800 900 1000mm

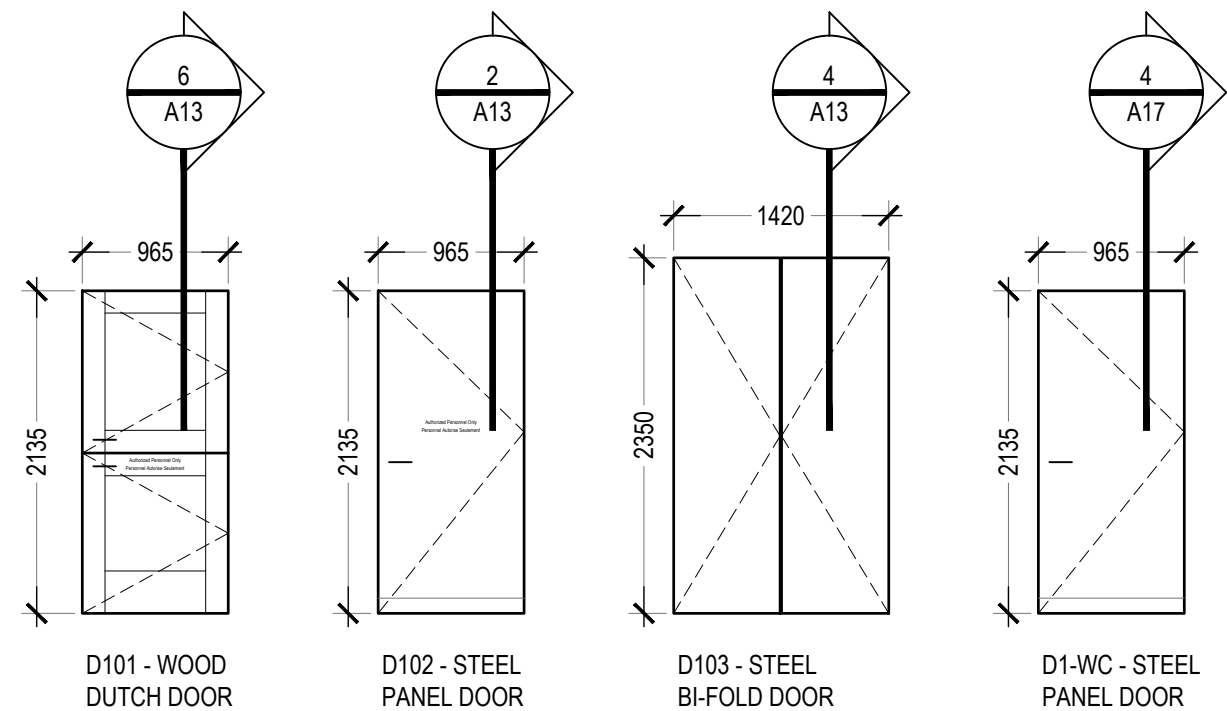
SCALE : 1:5  
0mm 100mm 200mm 300mm 400mm 500mm



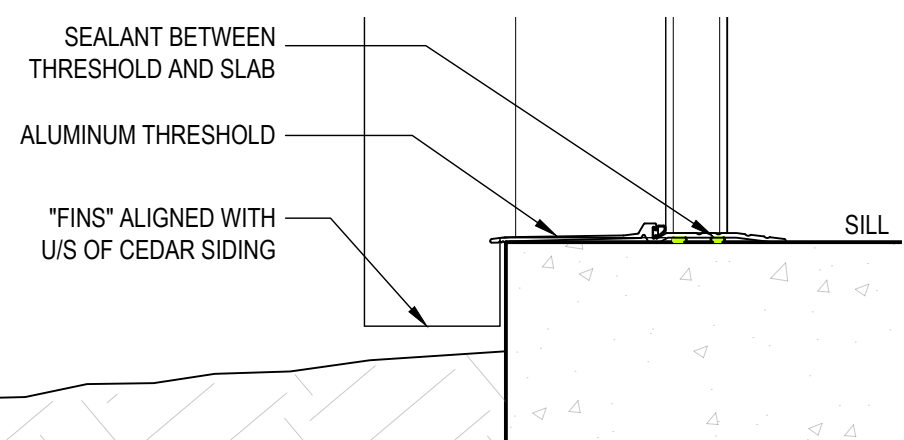
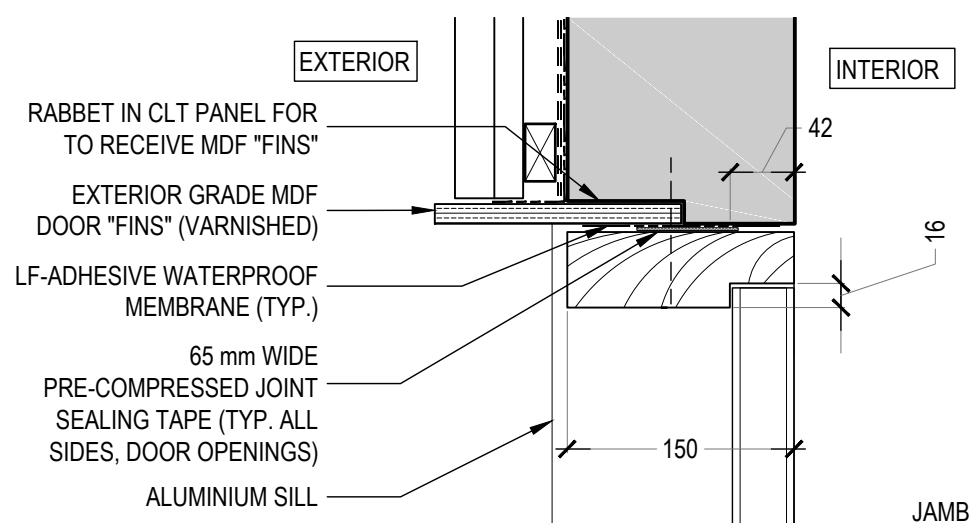
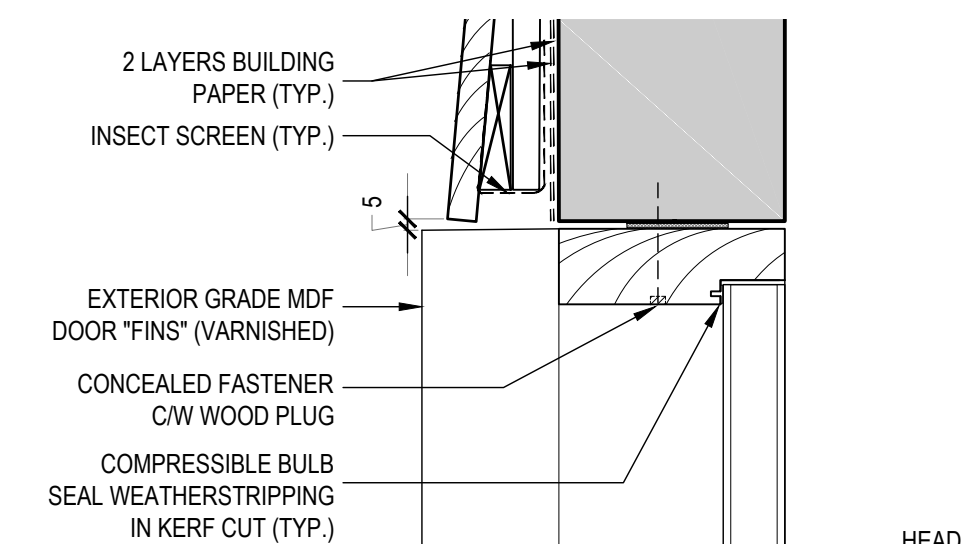
5 FRAME WALL - W4  
A7 A12 SECTION DETAIL

1:5

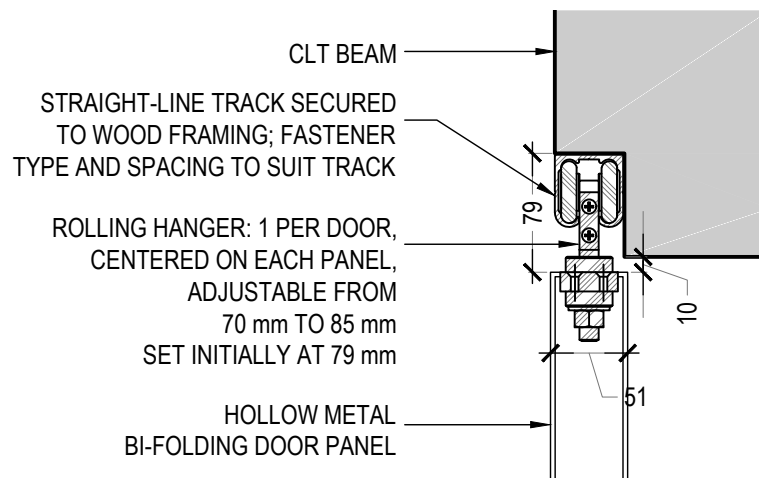




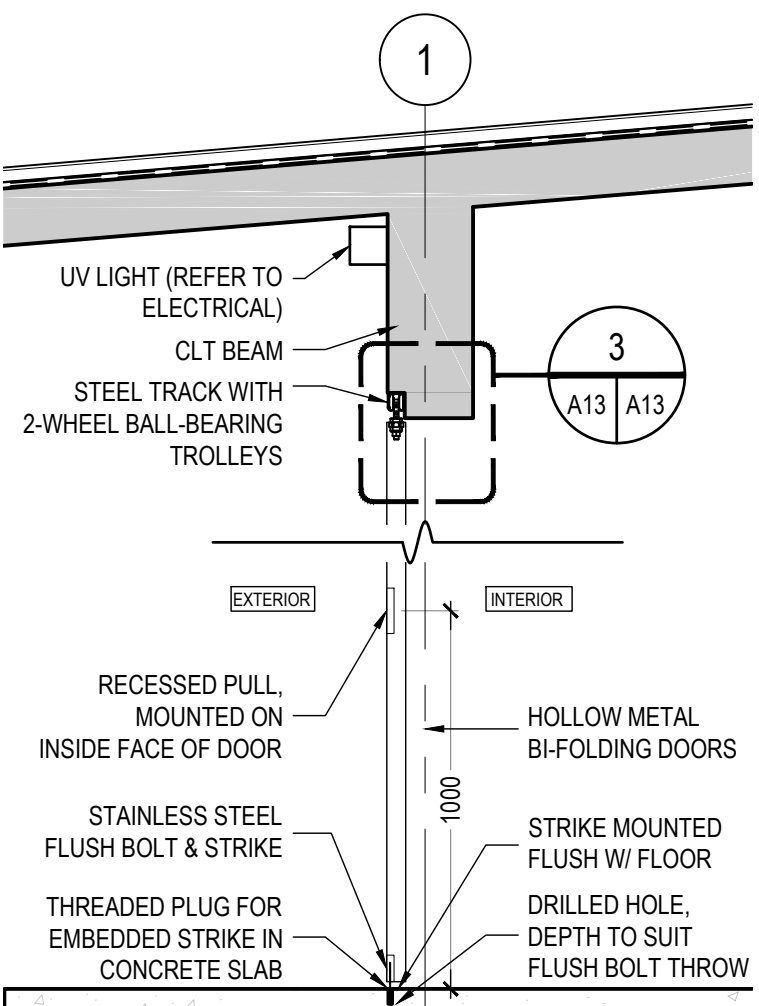
1 DOOR TYPES  
ELEVATIONS 1:50



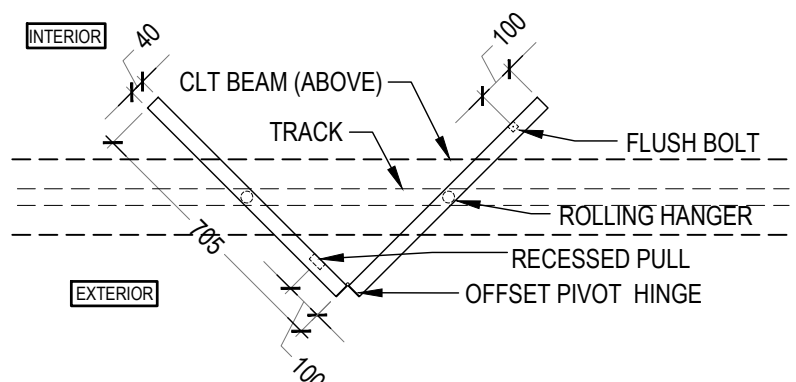
2 D102 -- STEEL PANEL DOOR  
SECTION DETAILS 1:5



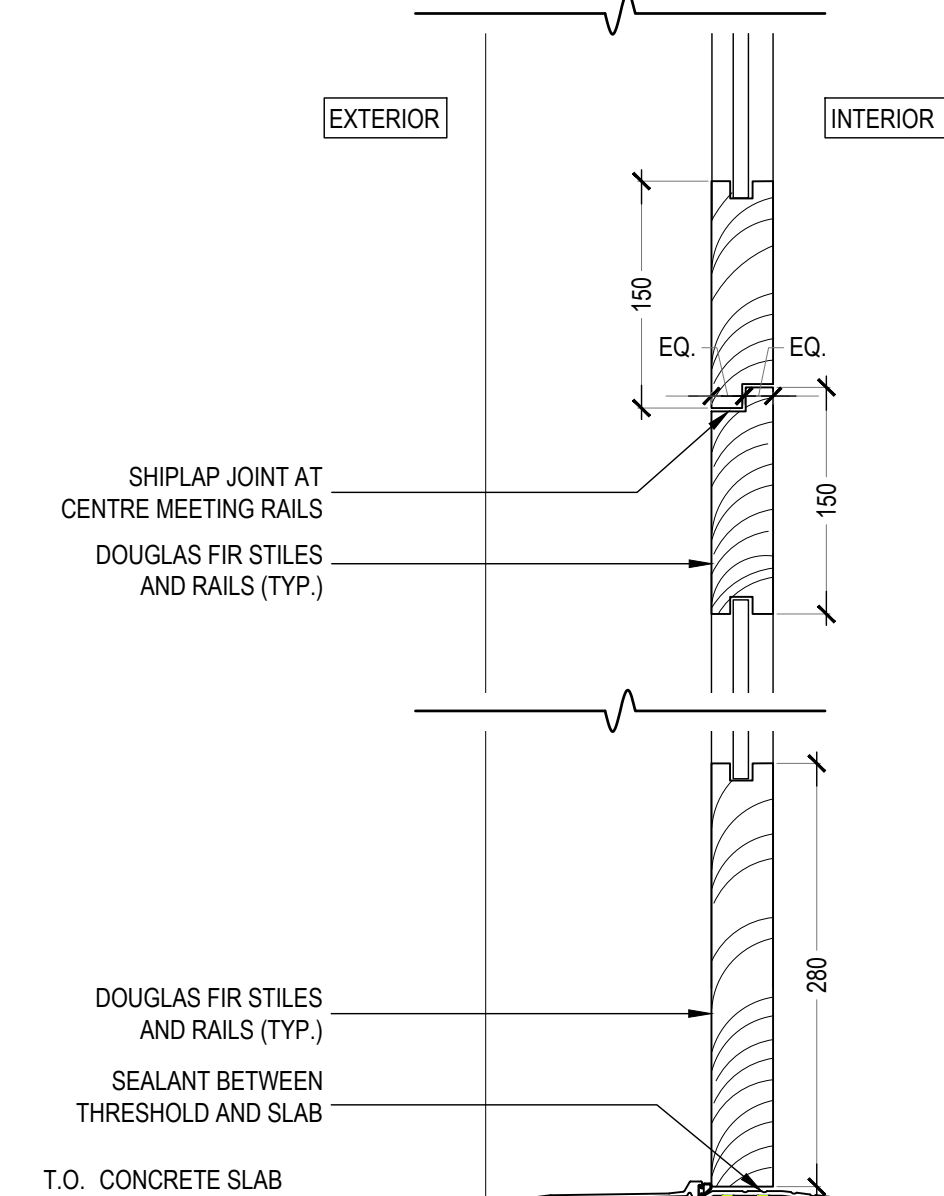
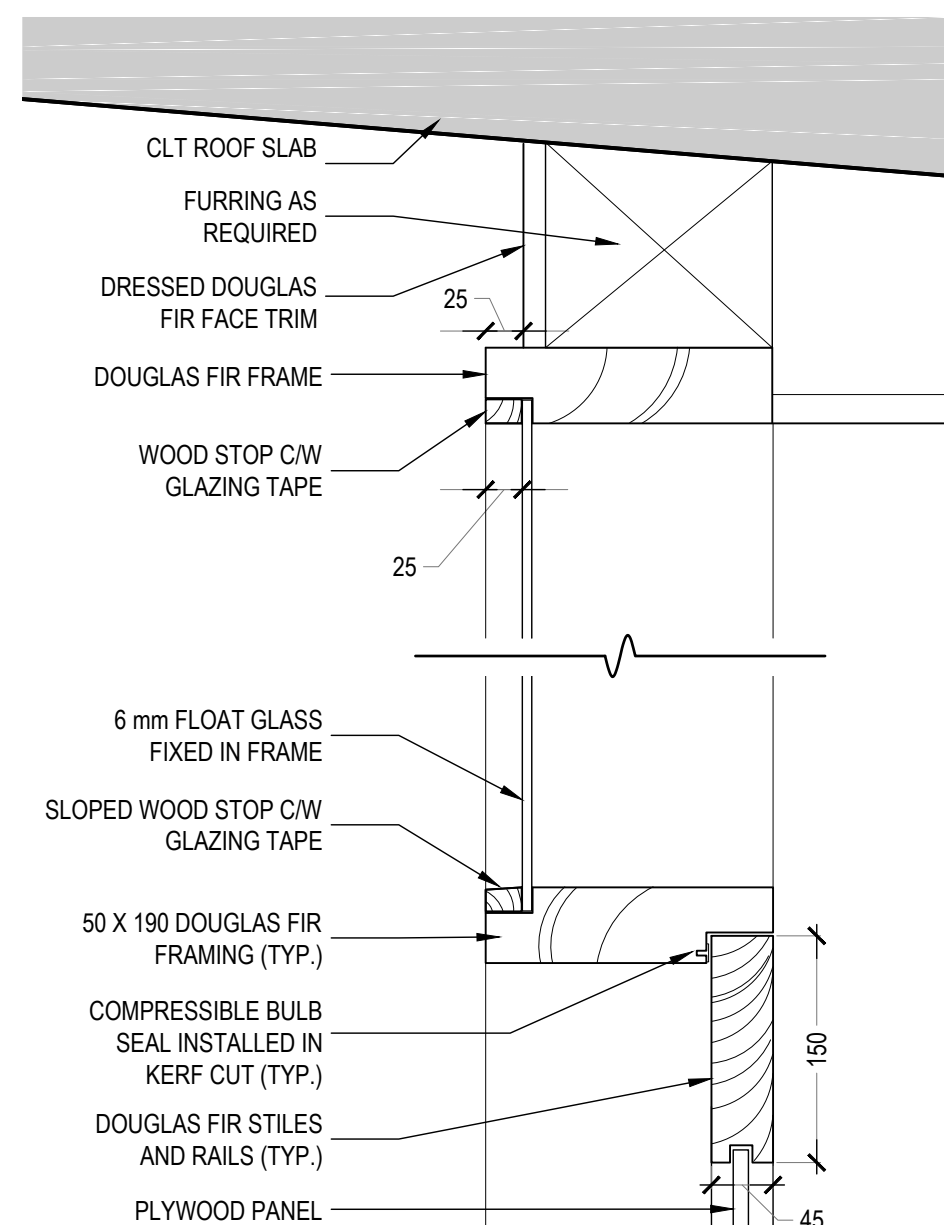
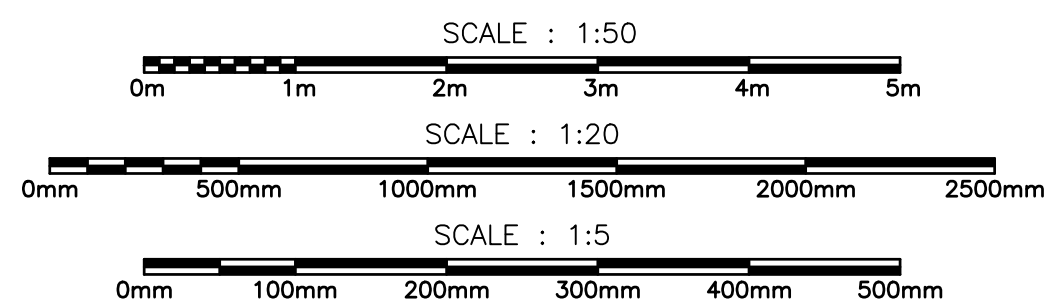
3 D103 - BIFOLD DOOR  
TRACK DETAIL 1:5



4 D103 -- BIFOLD DOOR  
SECTION DETAIL 1:20



5 D103 -- BIFOLD DOOR  
PLAN DETAIL 1:20



6 D101 - WOOD DUTCH DOOR AND TRANSOM  
SECTION DETAILS 1:5



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Services gouvernementaux Canada

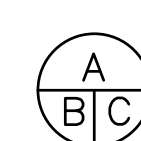
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ENVIRONMENT AND CLIMATE CHANGE CANADA  
Prince Edward Point National Wildlife Area  
VISITOR'S EXPERIENCE IMPROVEMENTS

South Marysburgh Twp, Ontario

drawing title  
titre du dessin

DOOR  
DETAILS



drawn by  
dessiné par HGM

designed by  
conc par AT

approved by  
approuvé par

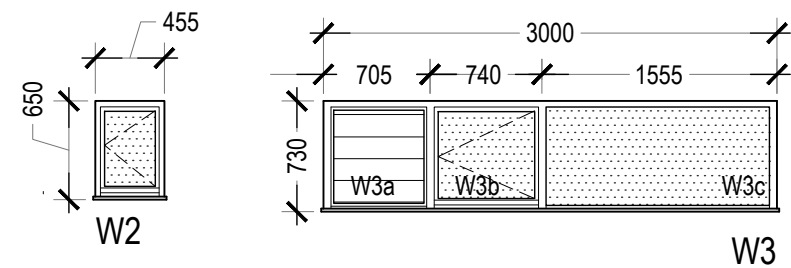
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administrateur  
de projets

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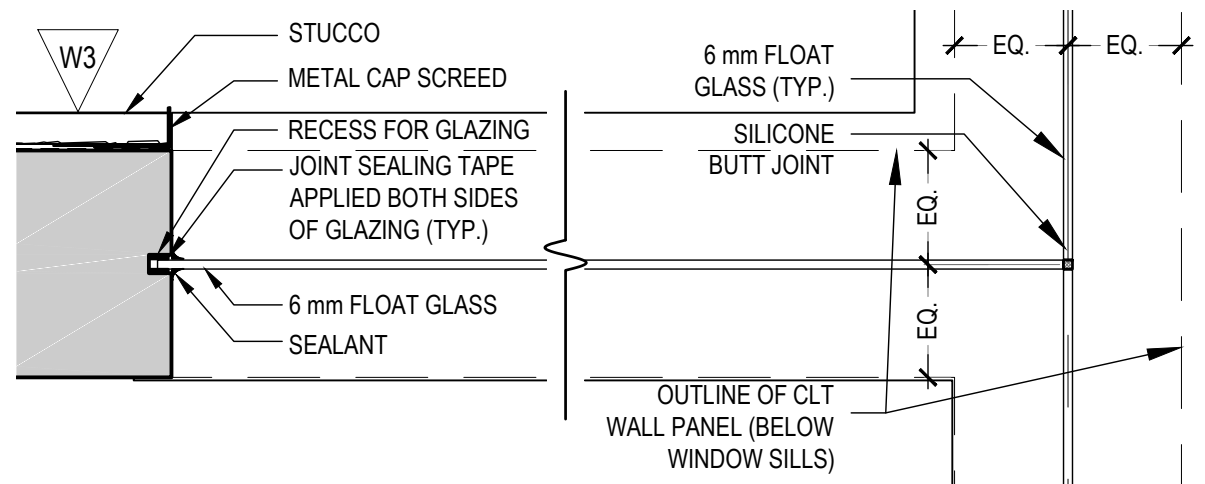
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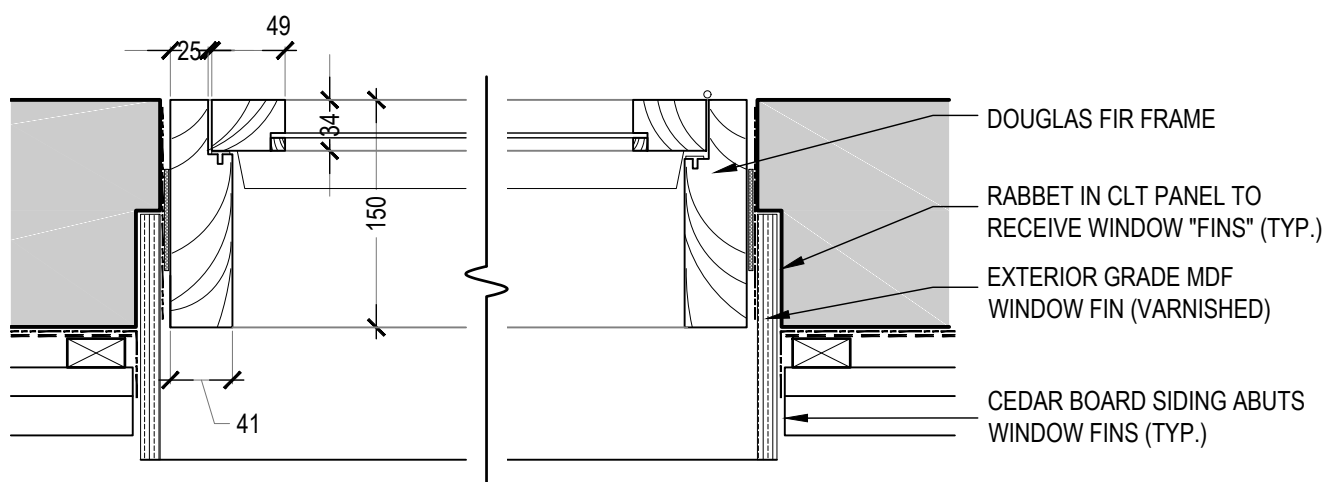
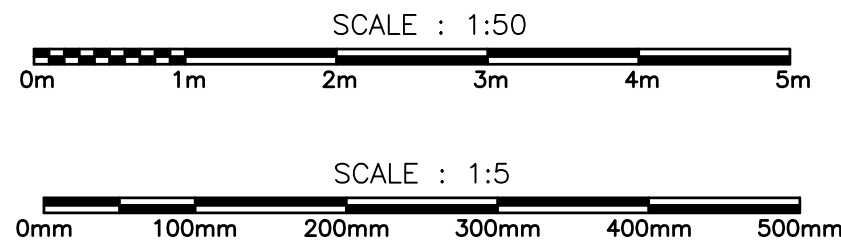




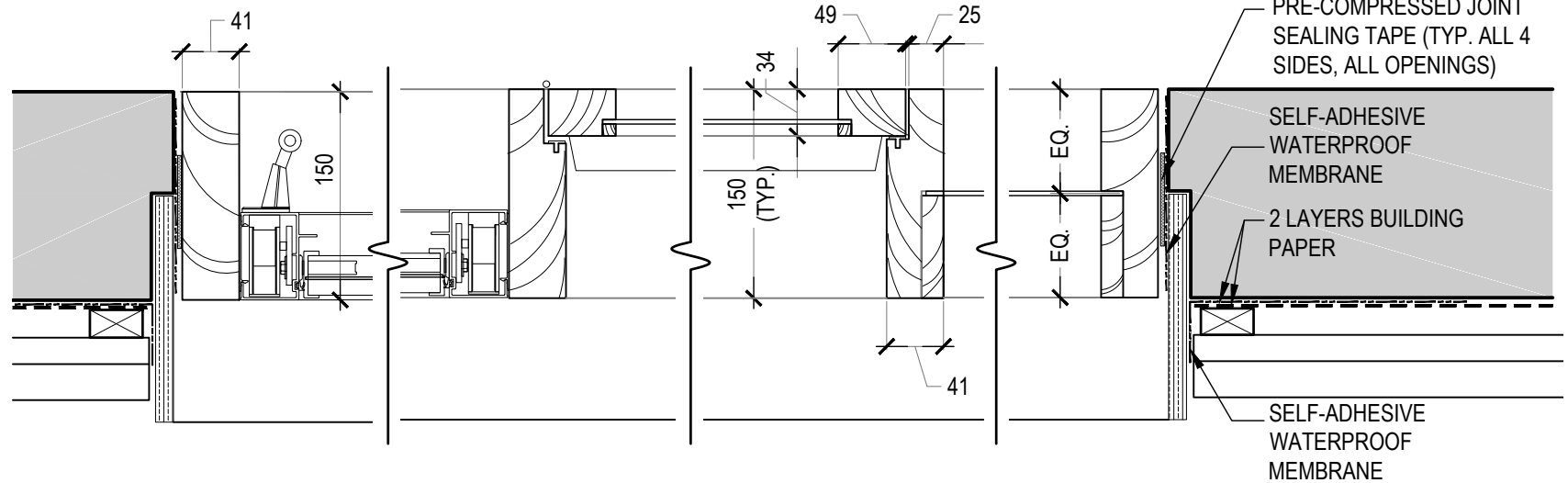
1 WINDOW TYPES  
ELEVATION  
1:50



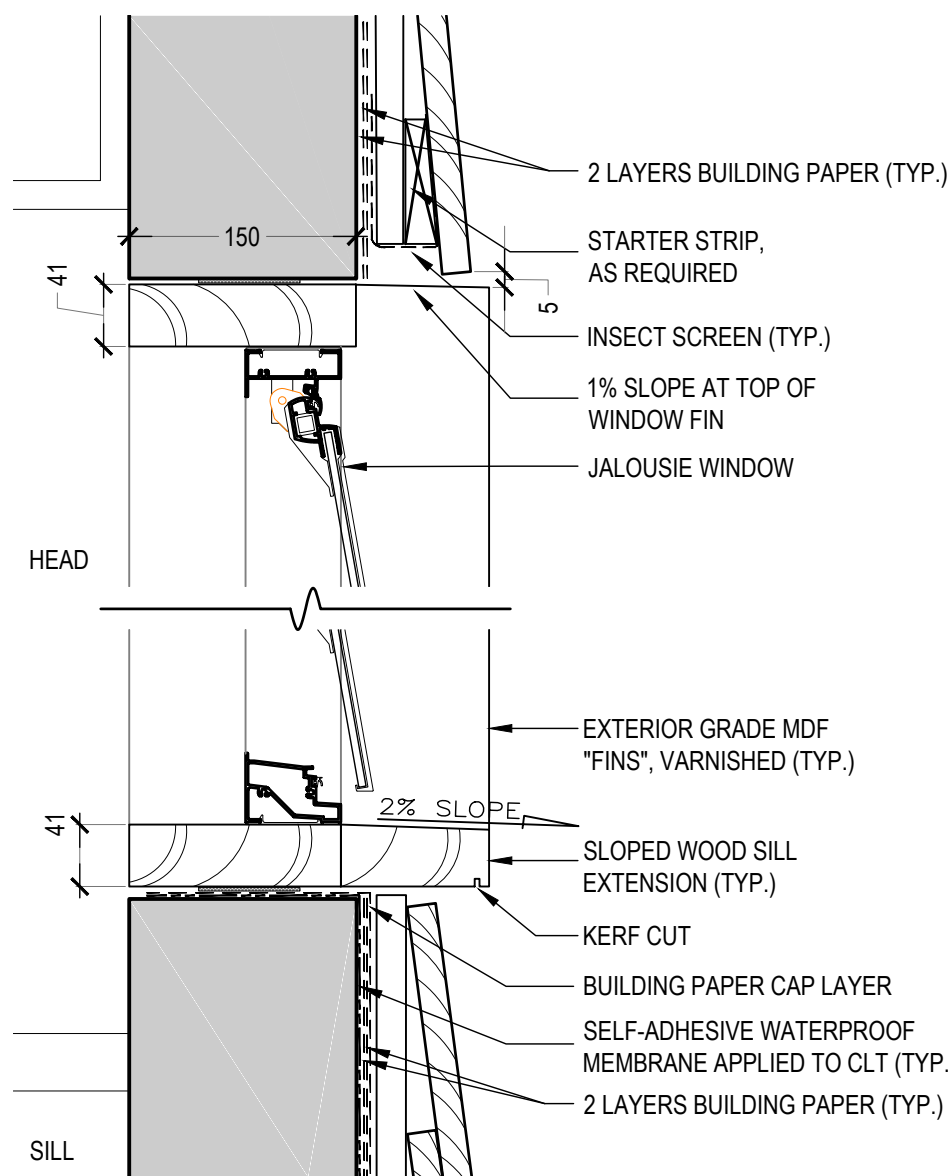
2 GLAZED OPENINGS  
CONNECTION DETAIL (TYP.)  
1:10



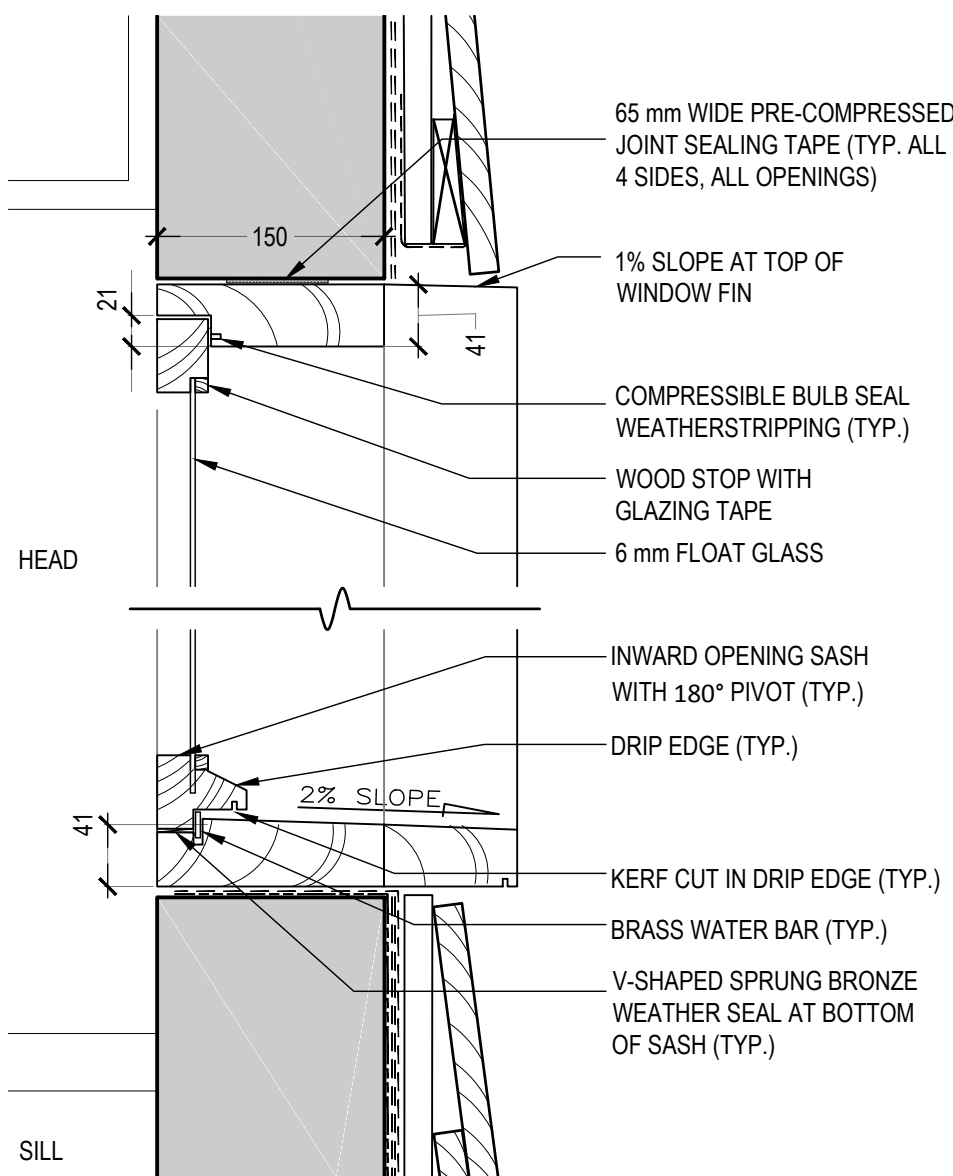
3 WINDOW W2  
JAMB DETAILS  
1:5



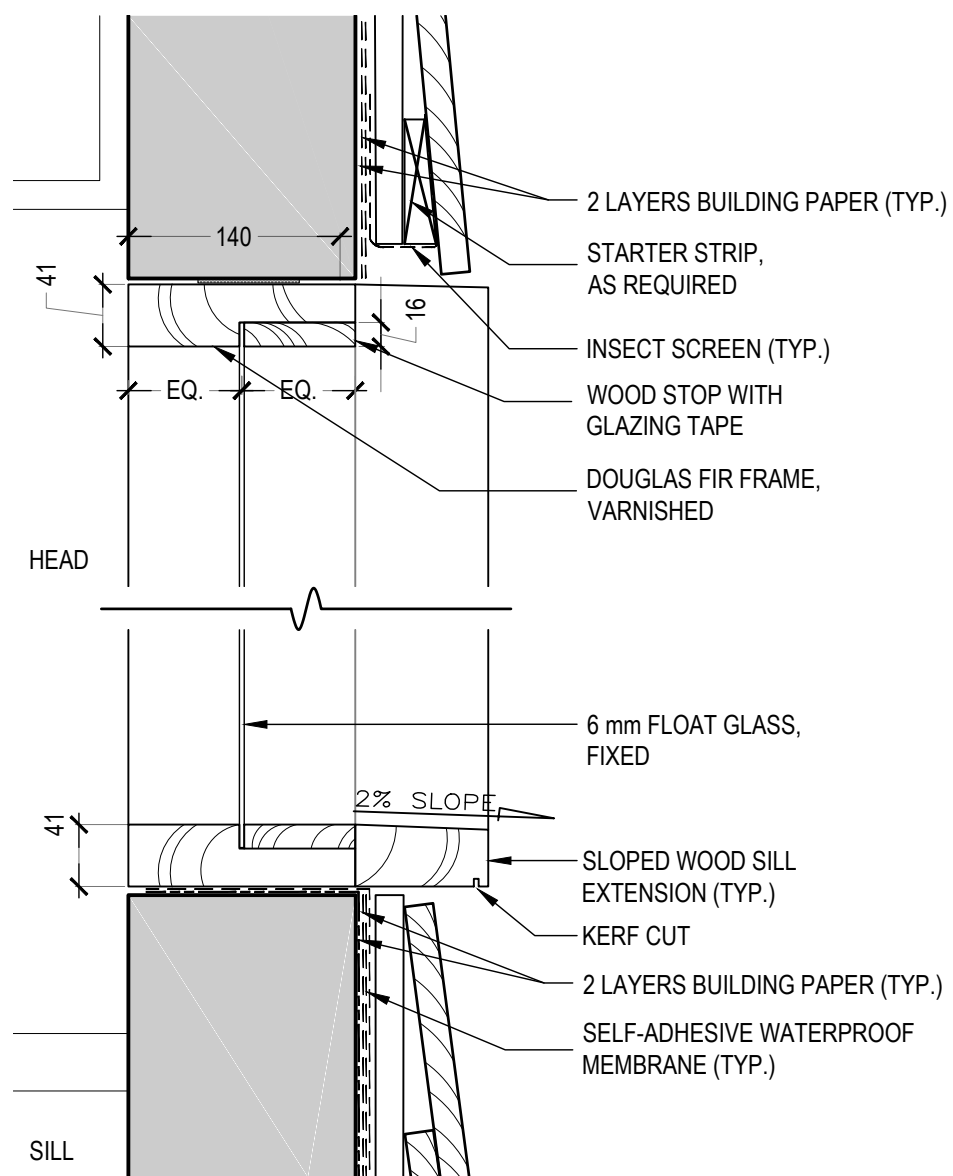
4 WINDOW W3  
JAMB DETAILS  
1:5



5 WINDOW TYPE W3a  
SECTION DETAILS  
1:5



6 WINDOW TYPE W3b & W2  
SECTION DETAILS  
1:5



7 WINDOW TYPE W3c  
SECTION DETAILS  
1:5



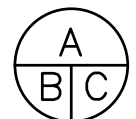
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Prince Edward Point National Wildlife Area  
VISITOR'S EXPERIENCE IMPROVEMENTS

South Marysburgh Twp, Ontario

drawing title  
titre du dessin

WINDOW  
DETAILS



drawn by  
dessiné par

HGM

designed by  
conc par

AT

approved by  
approuvé par

bid  
offre

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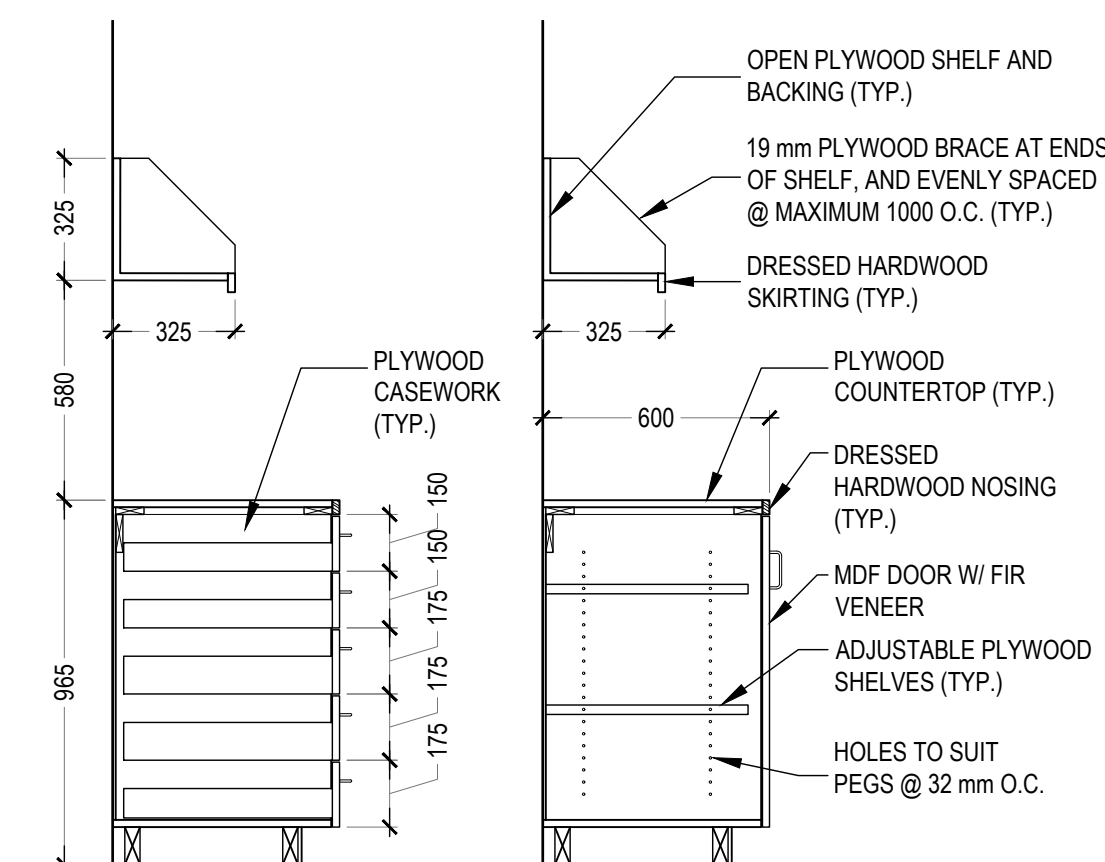
2018-08-24

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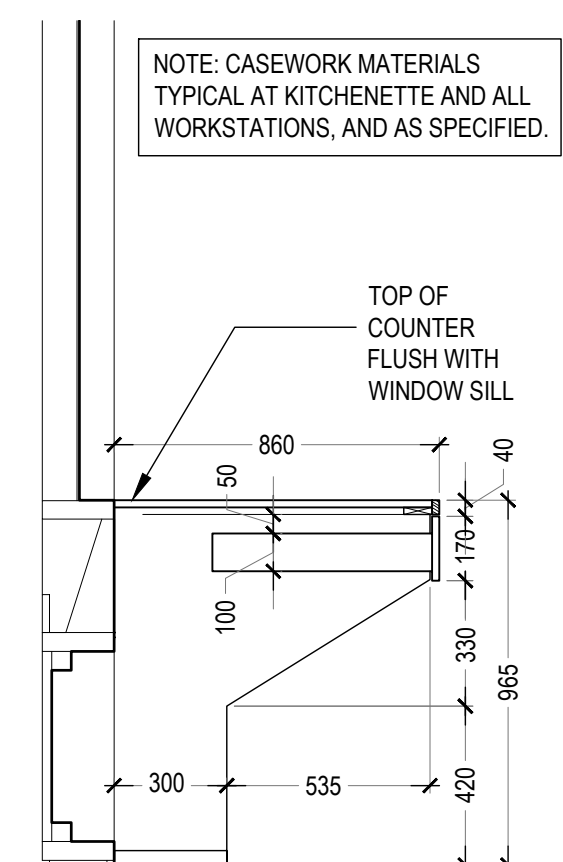
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drawing no.  
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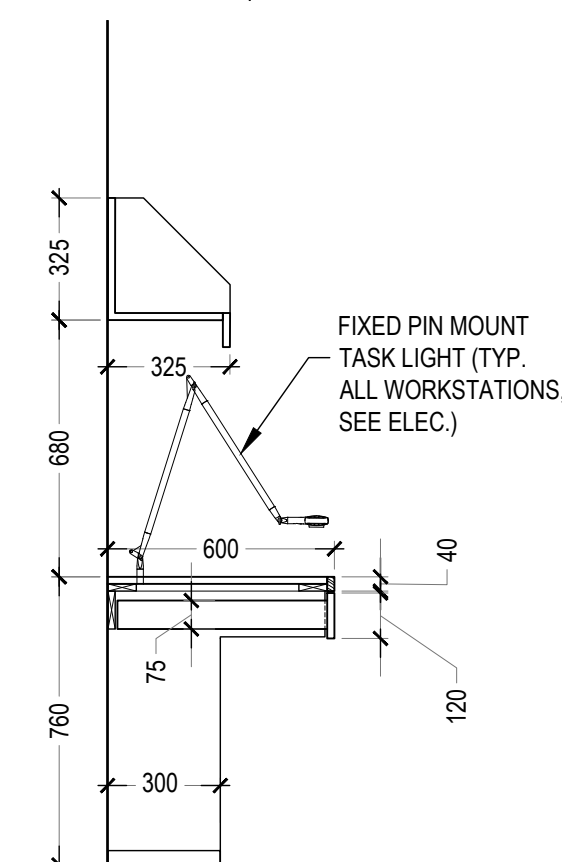
A14



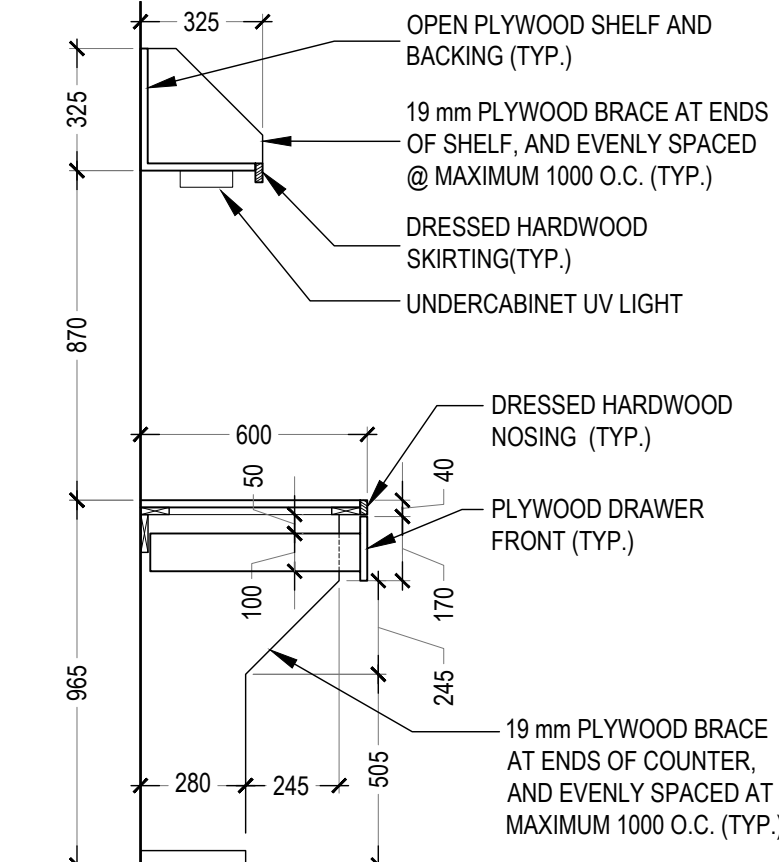
1 KITCHENETTE DETAILS 1:20



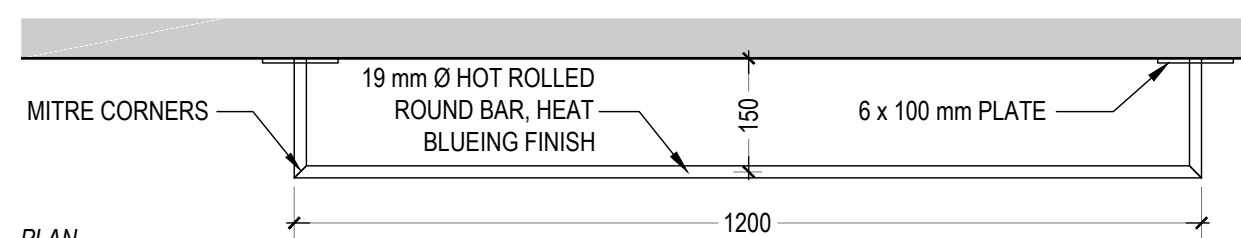
2 STANDING STATION 1 DETAILS (TYP.) 1:20



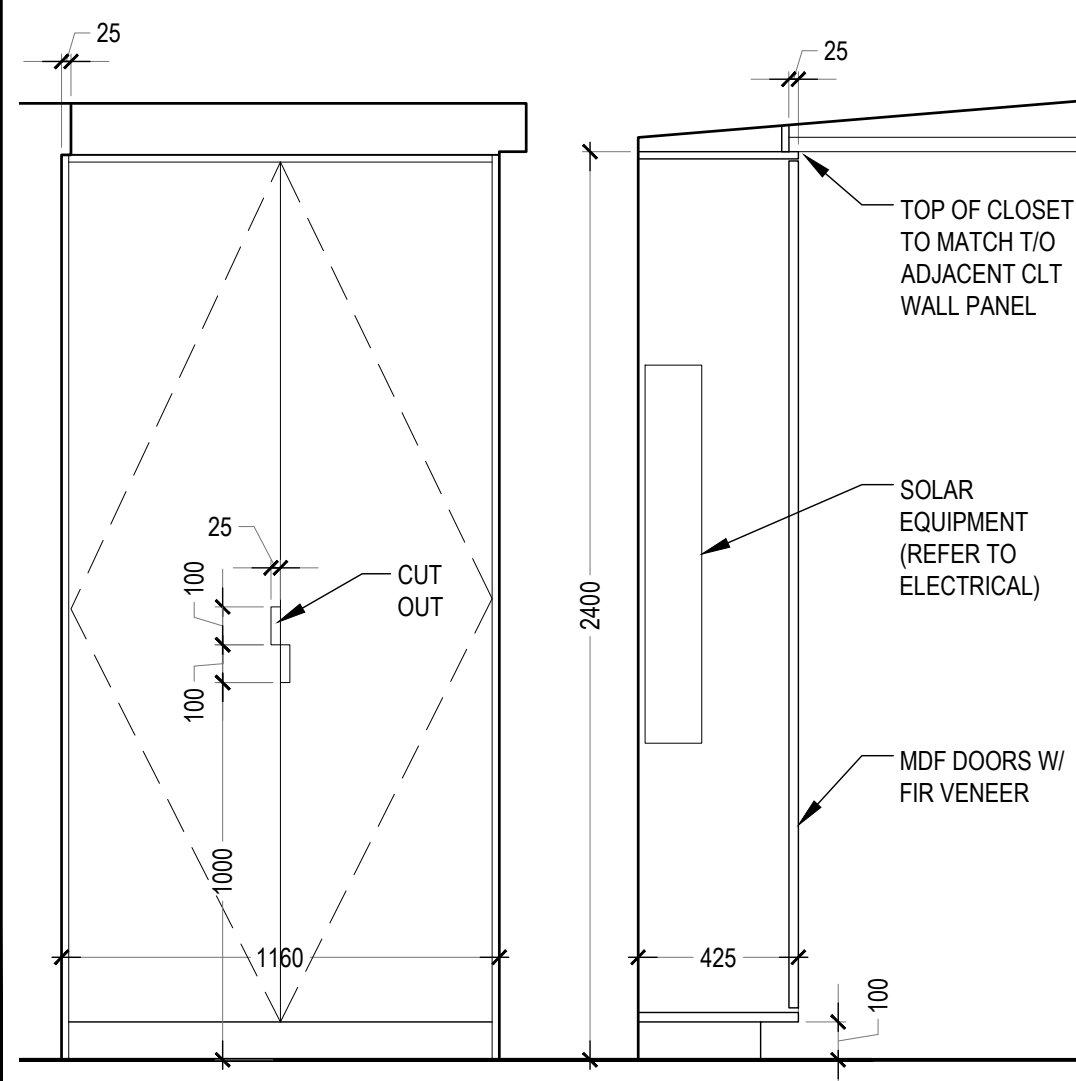
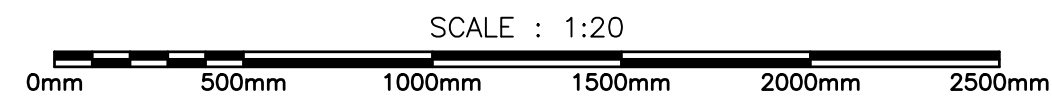
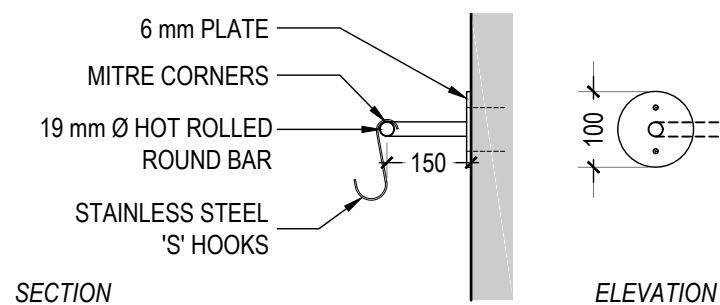
3 SEATED STATION DETAILS (TYP.) 1:20



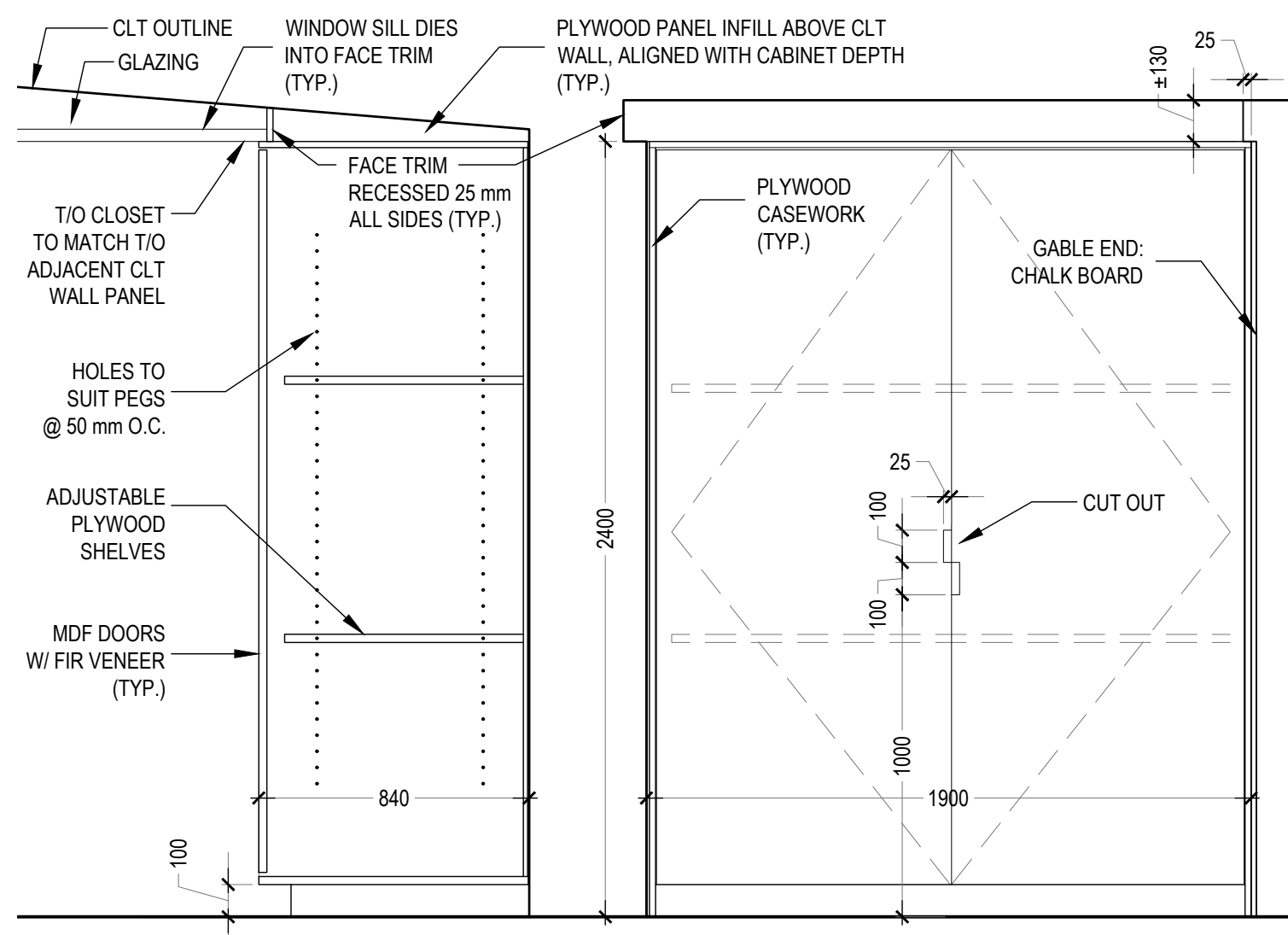
4 STANDING STATION 2 DETAILS 1:20



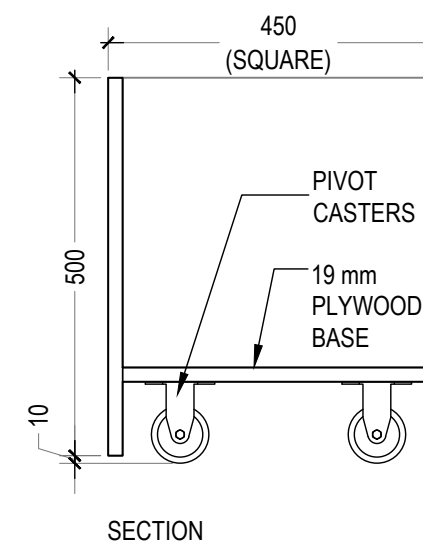
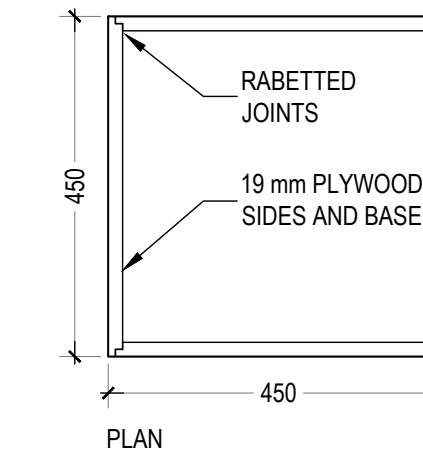
5 RAIL & HOOK SYSTEM DETAILS 1:10



6 ELECTRICAL CLOSET DETAILS 1:20



7 STORAGE CLOSET DETAILS 1:20



8 LAUNDRY BIN DETAILS 1:10



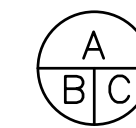
Public Works and  
Government Services Canada  
Travaux publics et  
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**Watson MacEwen Teramura  
Architects**

400-116 Lisgar Street | Ottawa Ontario | Canada K2P 0C2 | 613.232.0330

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No. du détail  
B drawing no. - where detail required  
dessin no. - où détail exigé  
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dessin no. - où détaillé

project title  
titre du projet

ENVIRONMENT AND CLIMATE CHANGE CANADA

Prince Edward Point National Wildlife Area  
VISITOR'S EXPERIENCE IMPROVEMENTS

South Marysburgh Twp, Ontario

drawing title  
titre du dessin

MILLWORK  
DETAILS 1



drawn by  
dessiné par

HGM

designed by  
conc par

AT

approved by  
approuvé par

bid  
offre

PSPC PROJECT  
MANAGER

project manager  
administrateur  
de projets

project date  
date du projet

2018-08-24

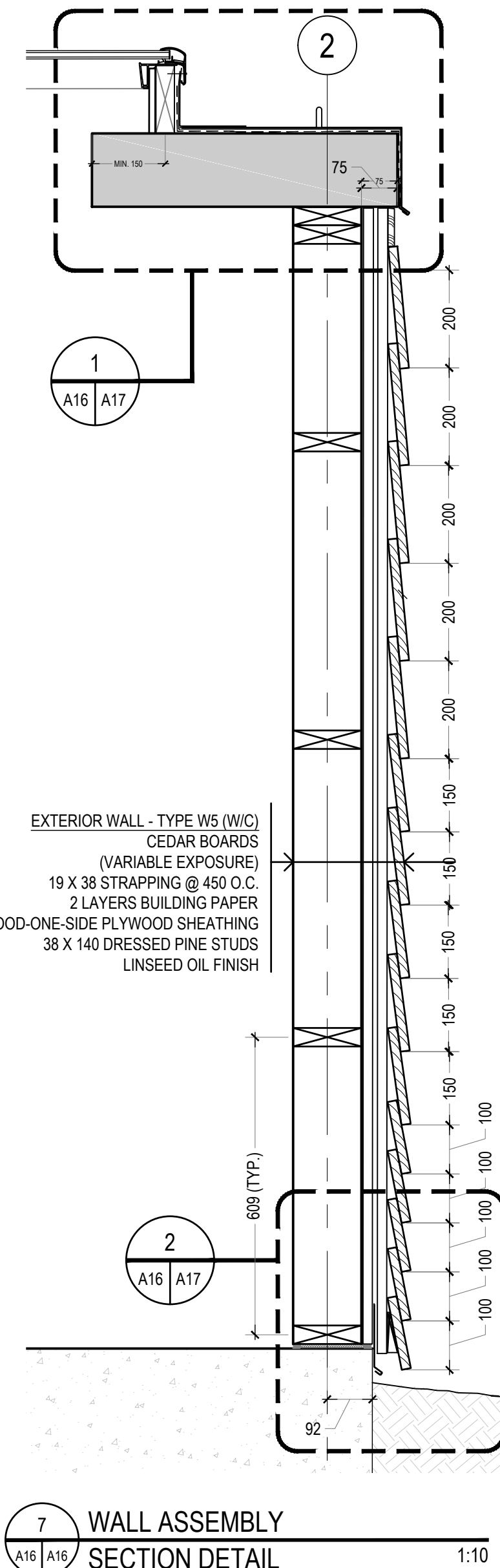
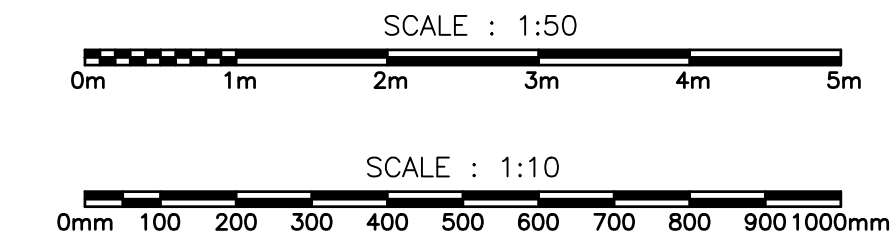
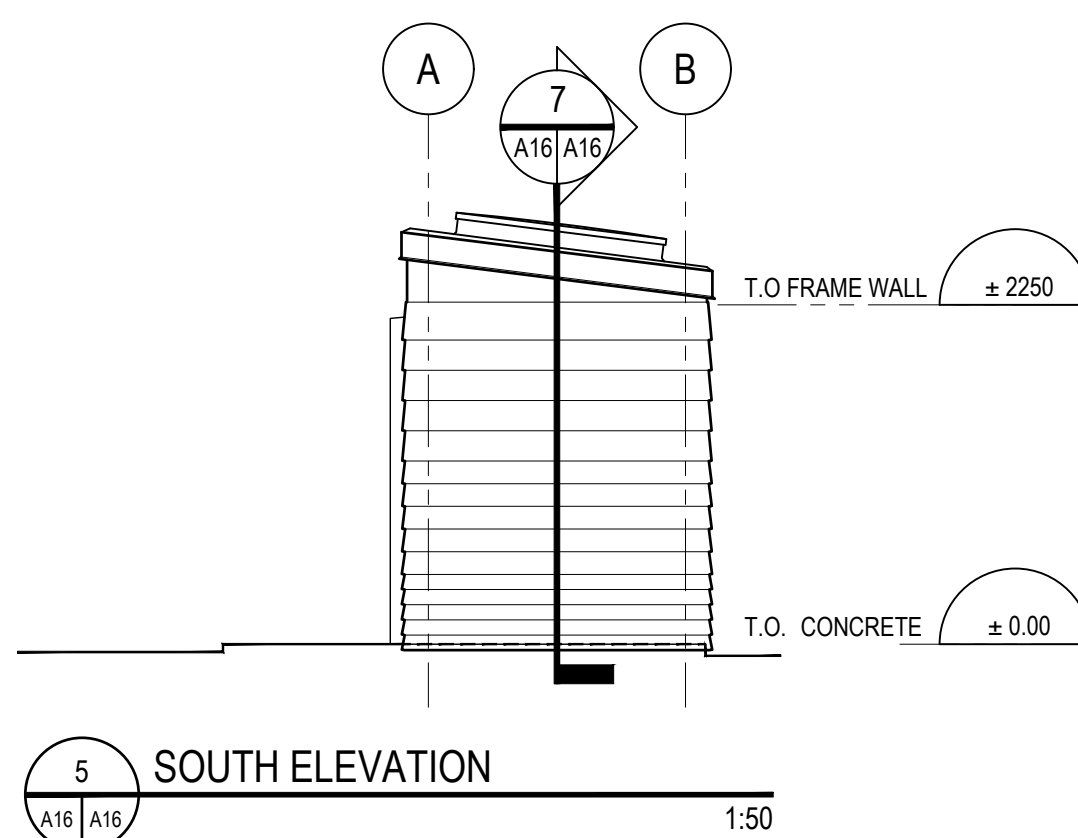
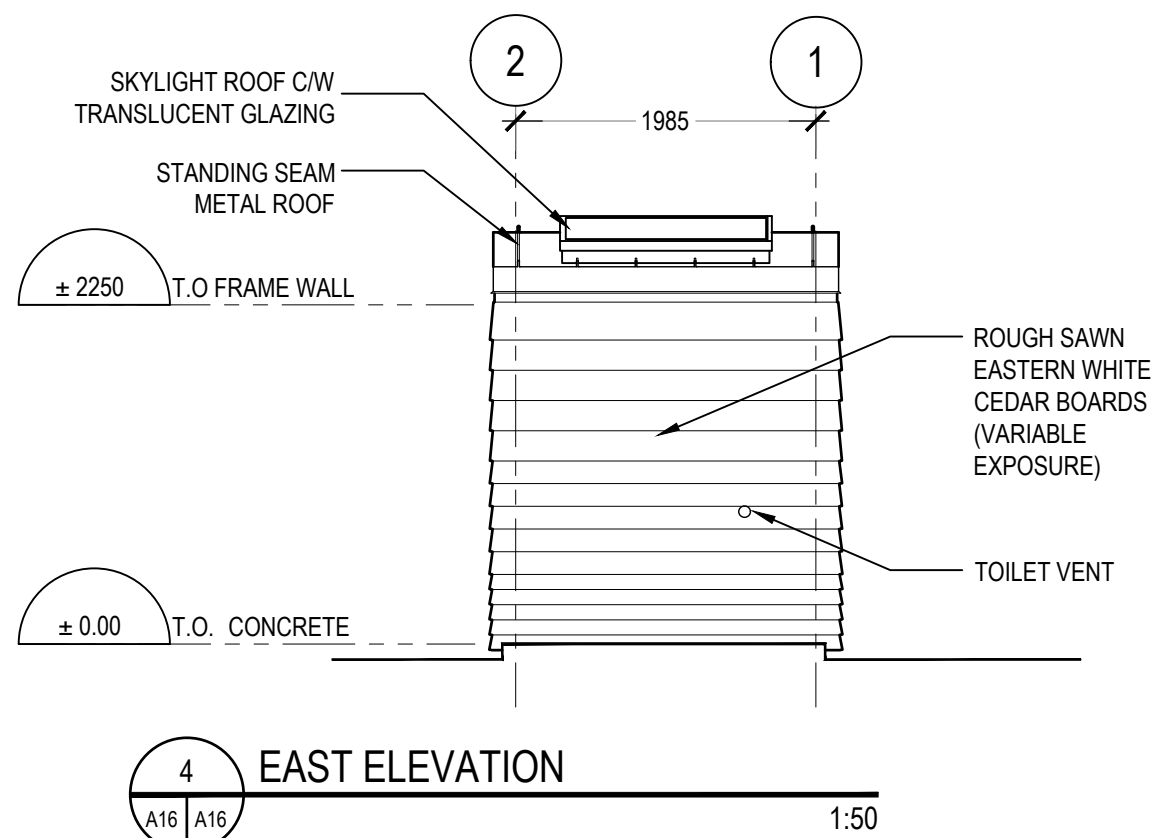
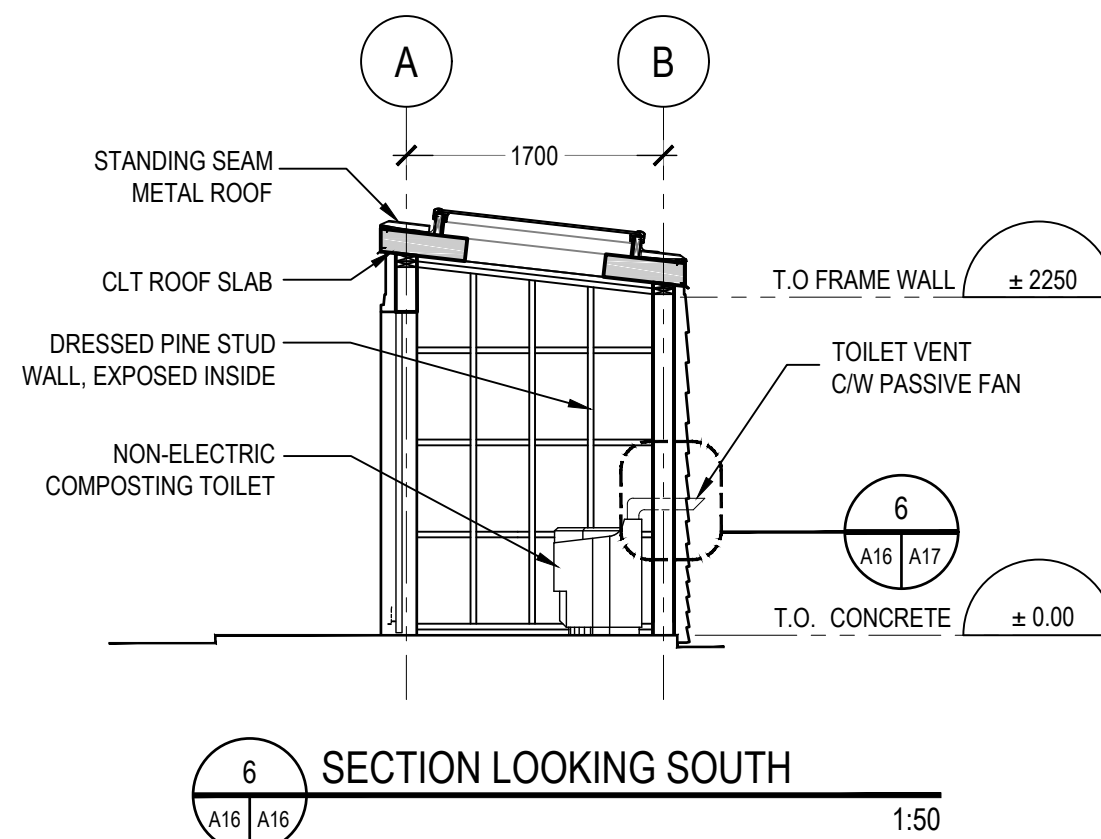
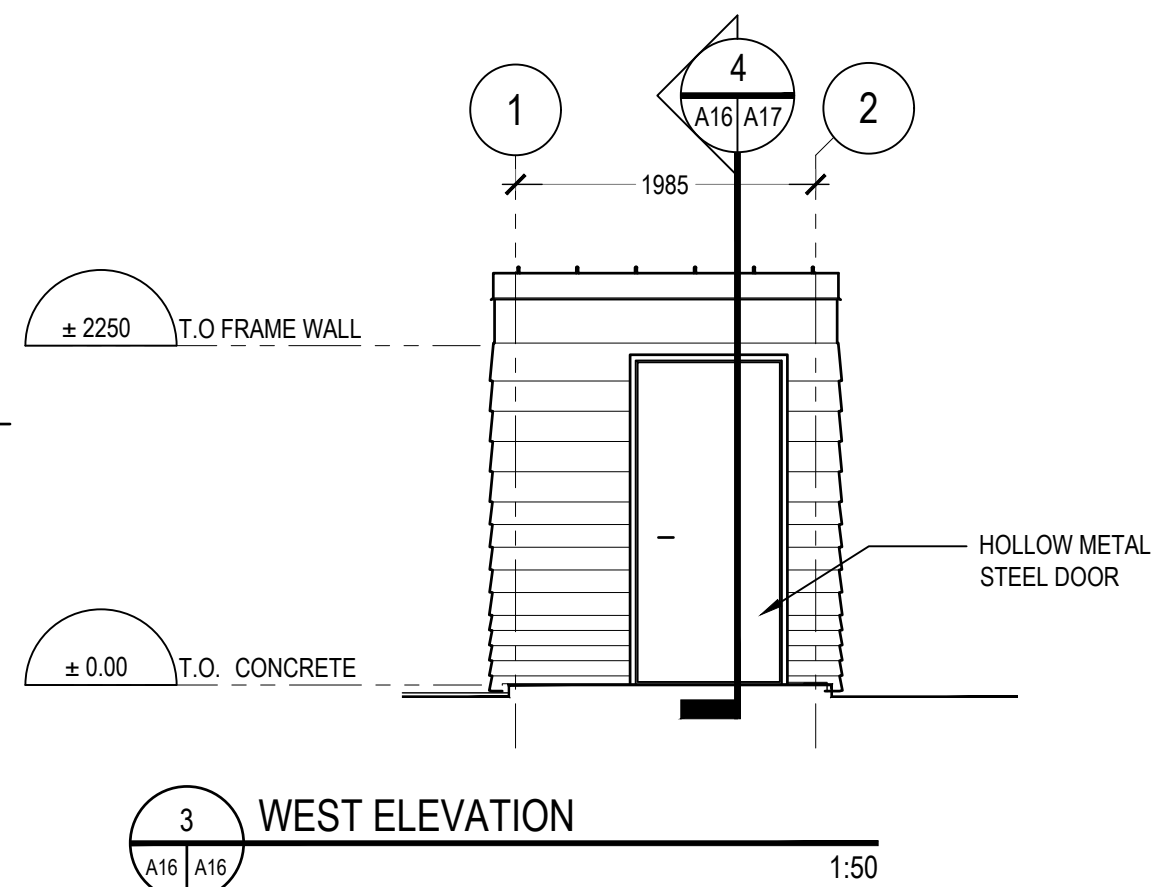
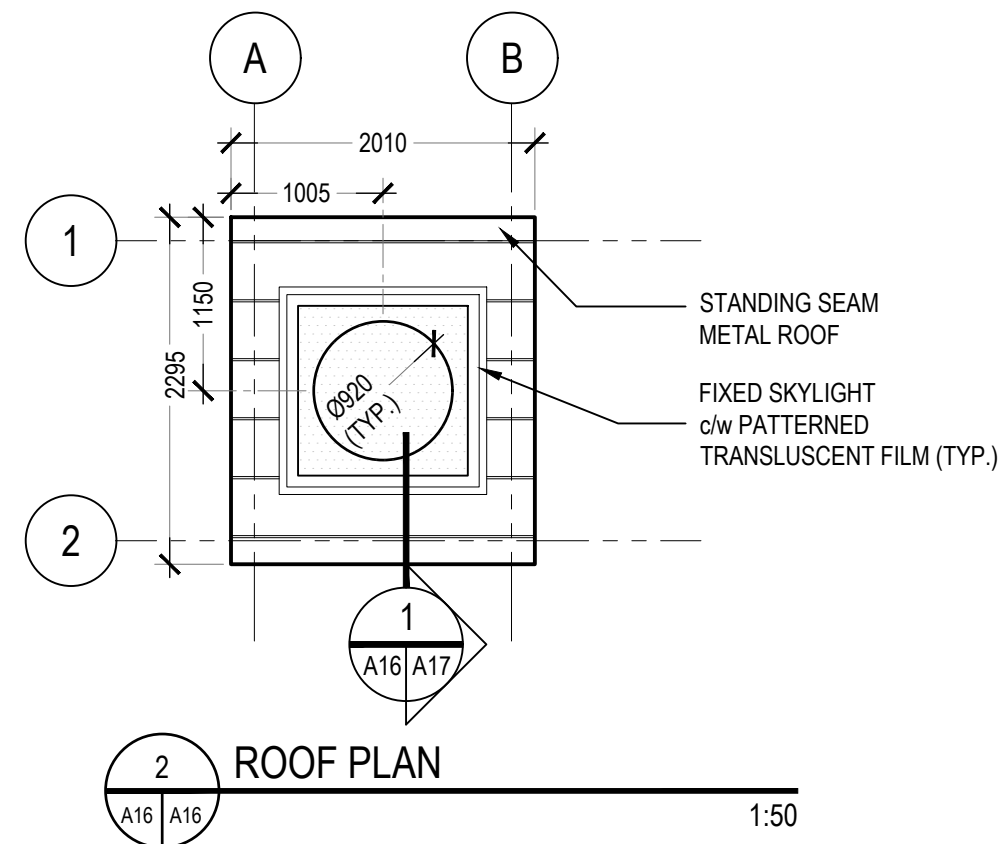
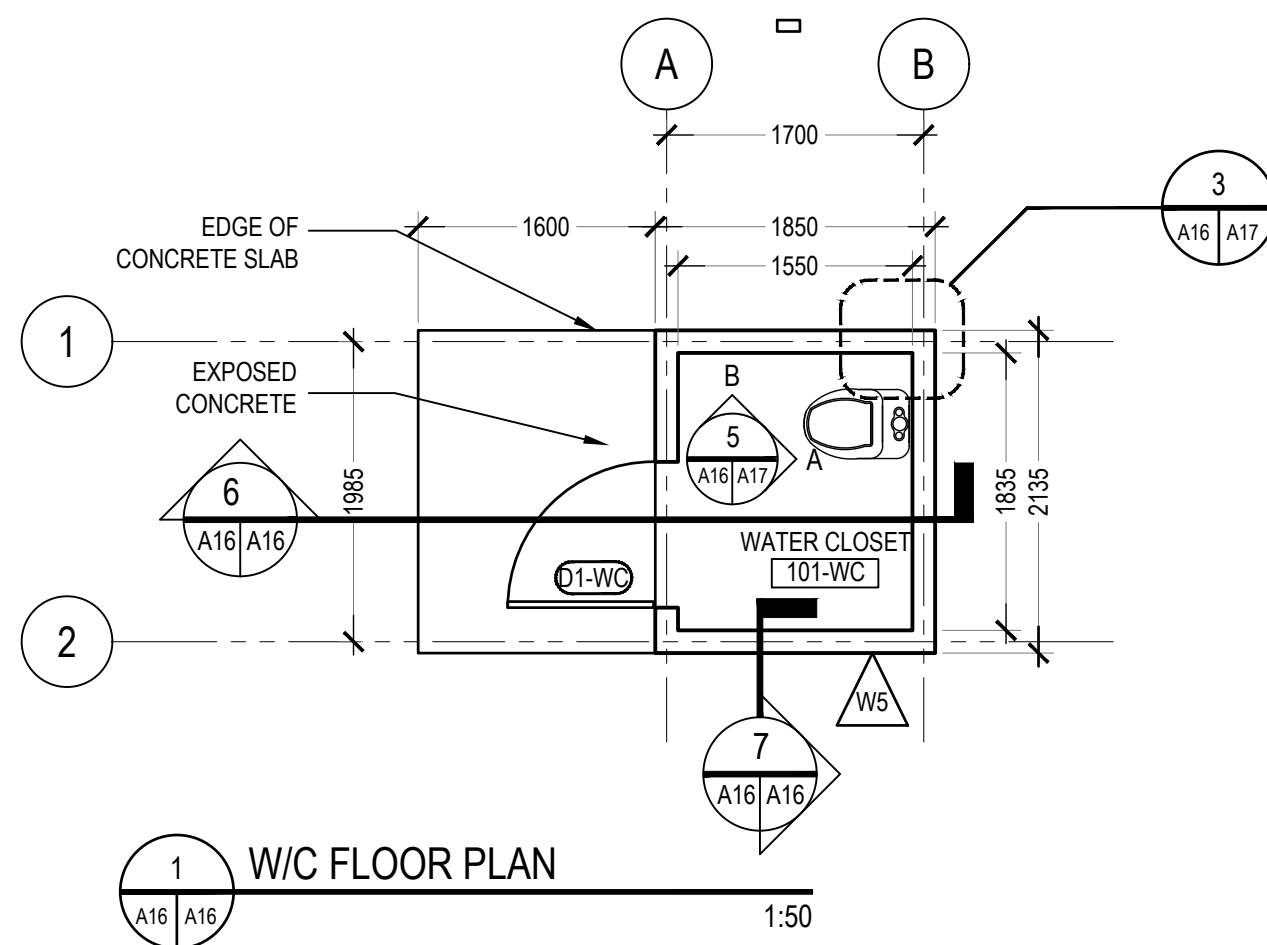
project no.  
no. du projet

R.080100.002

drawing no.  
dessiné no.

A15





Public Works and  
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## Watson MacEwen Teramura Architects

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Prince Edward Point National Wildlife Area  
VISITOR'S EXPERIENCE IMPROVEMENTS

South Marysburgh Twp, Ontario

drawing title  
titre du dessin

WATER CLOSET  
OUTBUILDING



drawn by  
dessiné par

HGM

designed by  
conc par

AT

approved by  
approuvé par

bid  
offre

PSPC PROJECT  
MANAGER

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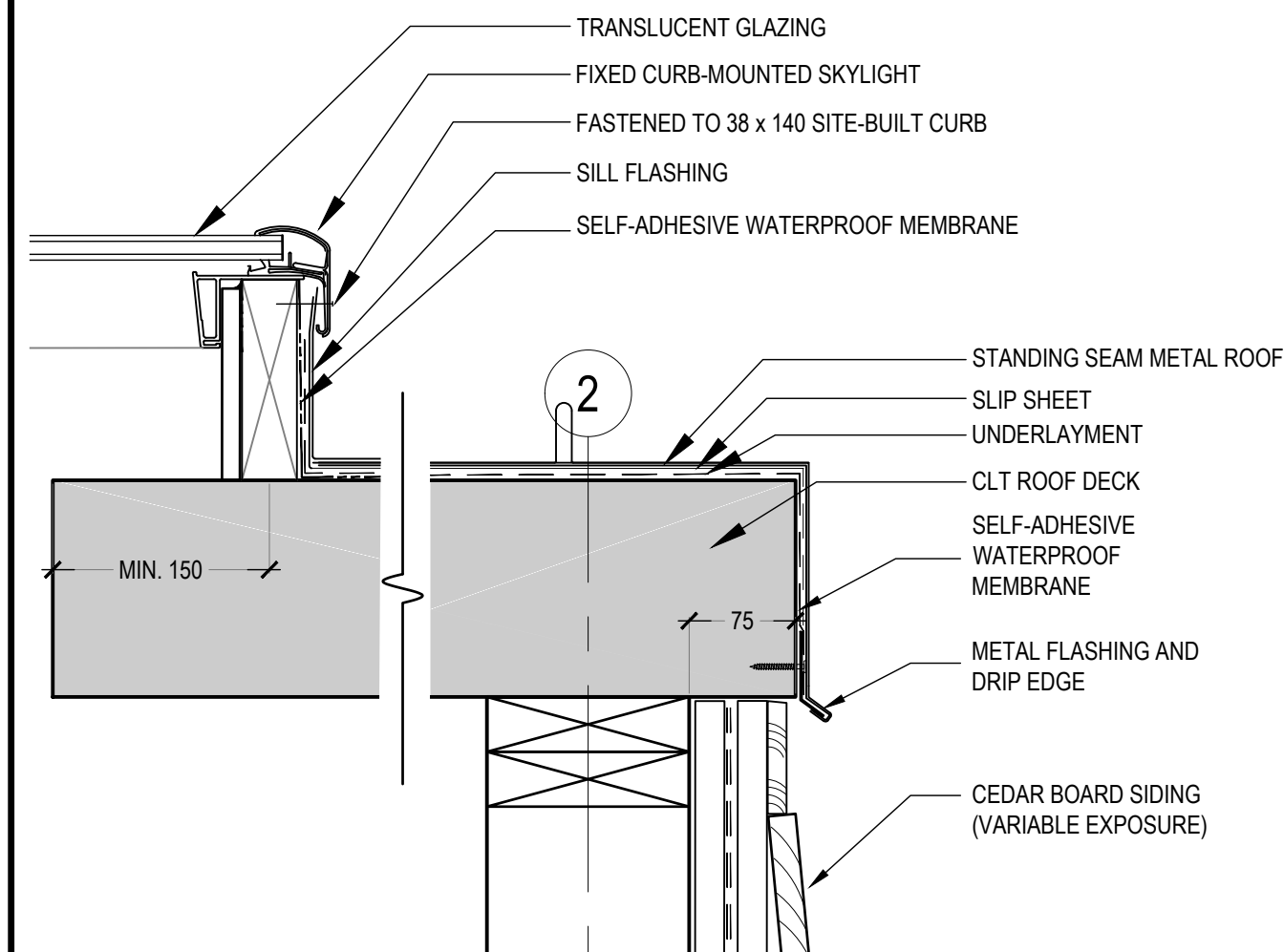
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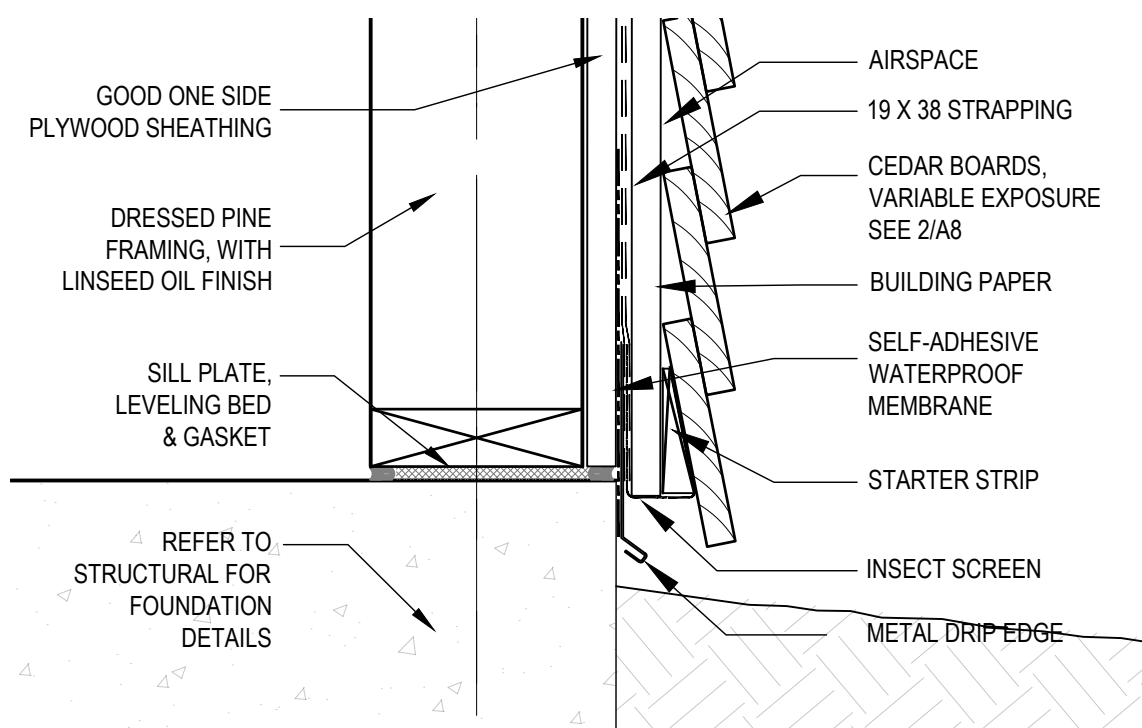
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A16

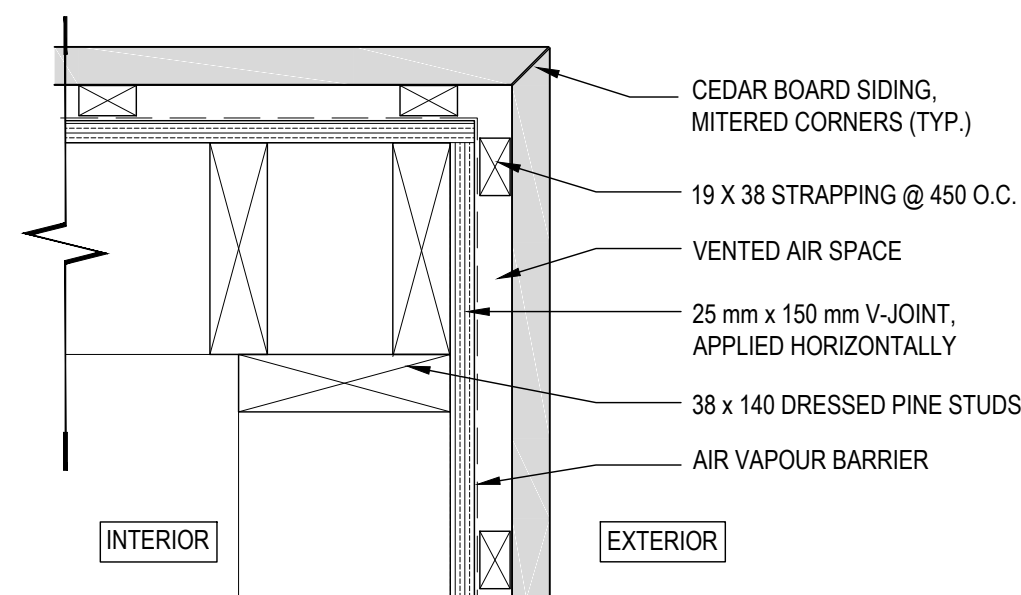




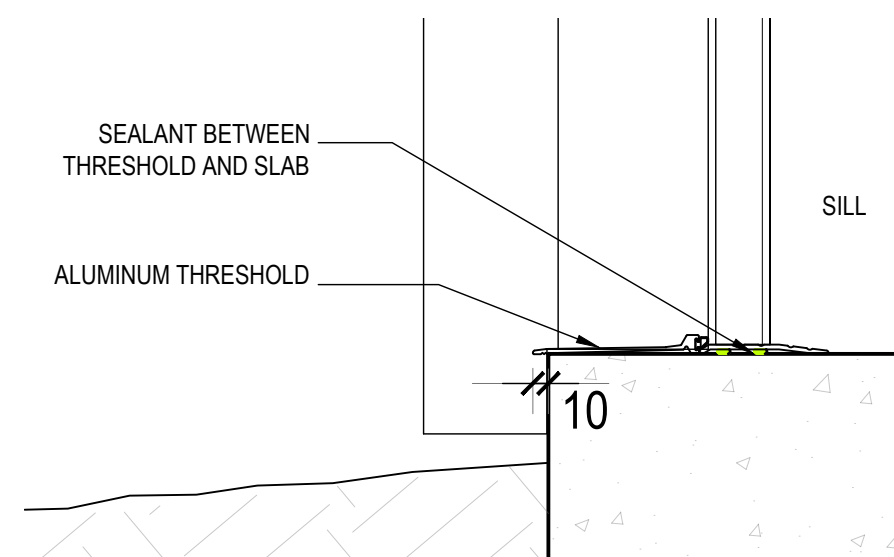
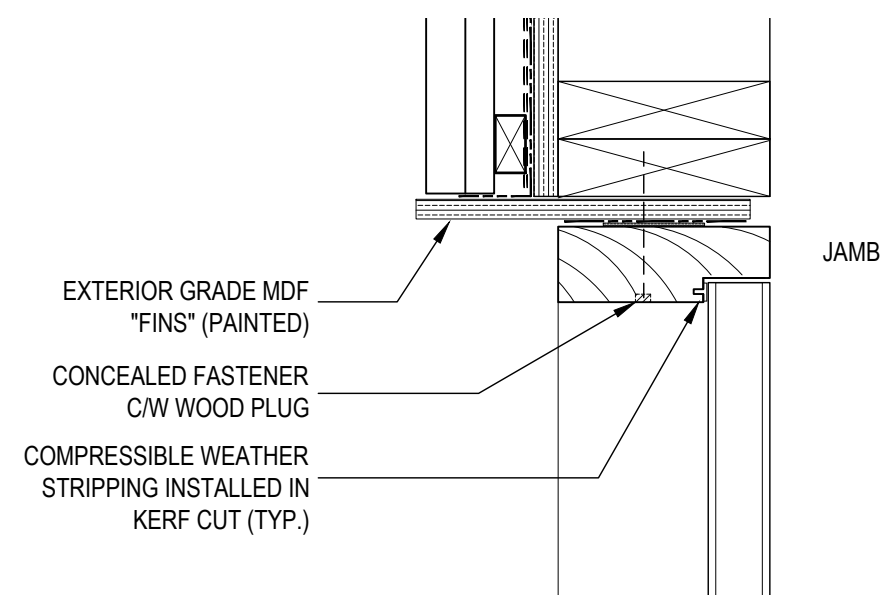
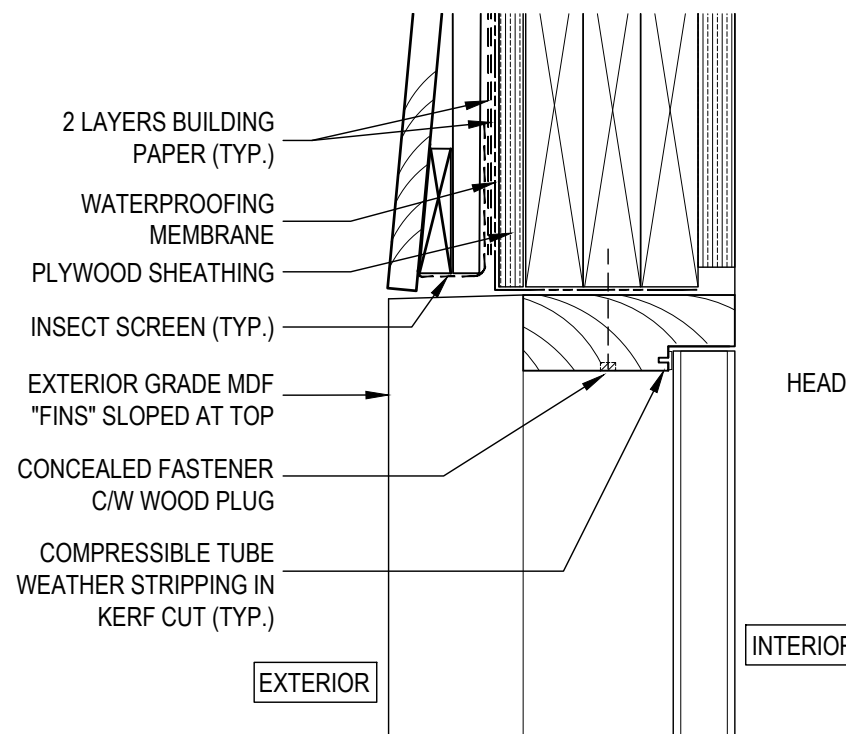
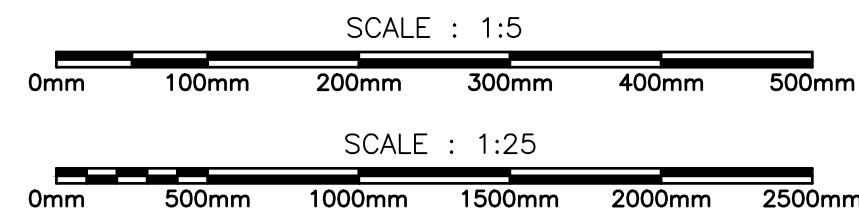
1 WALL SKYLIGHT CURB INTERSECTION  
SECTION DETAIL 1:5



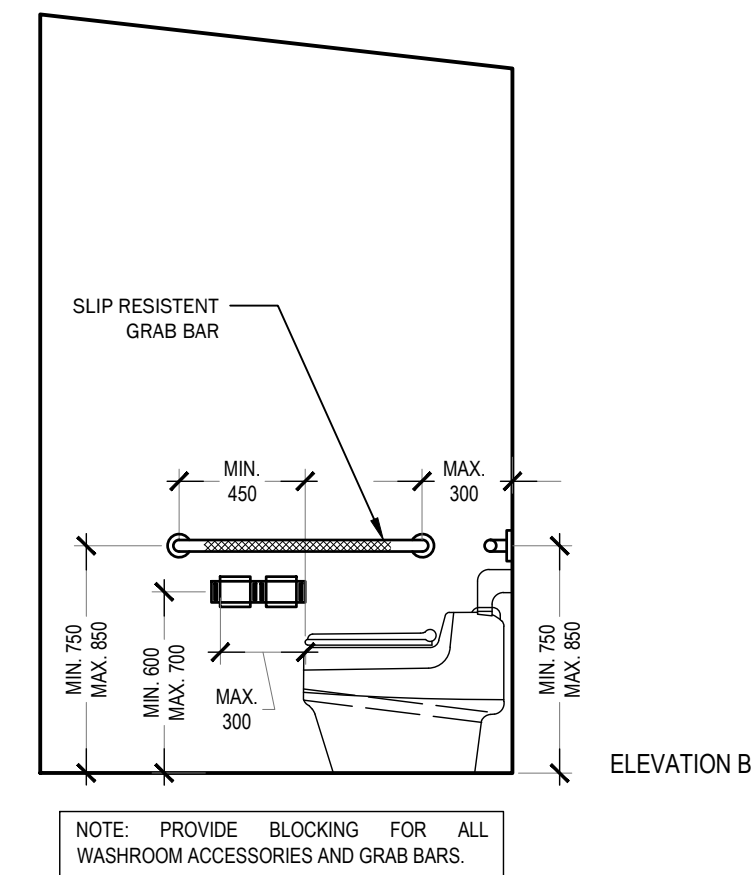
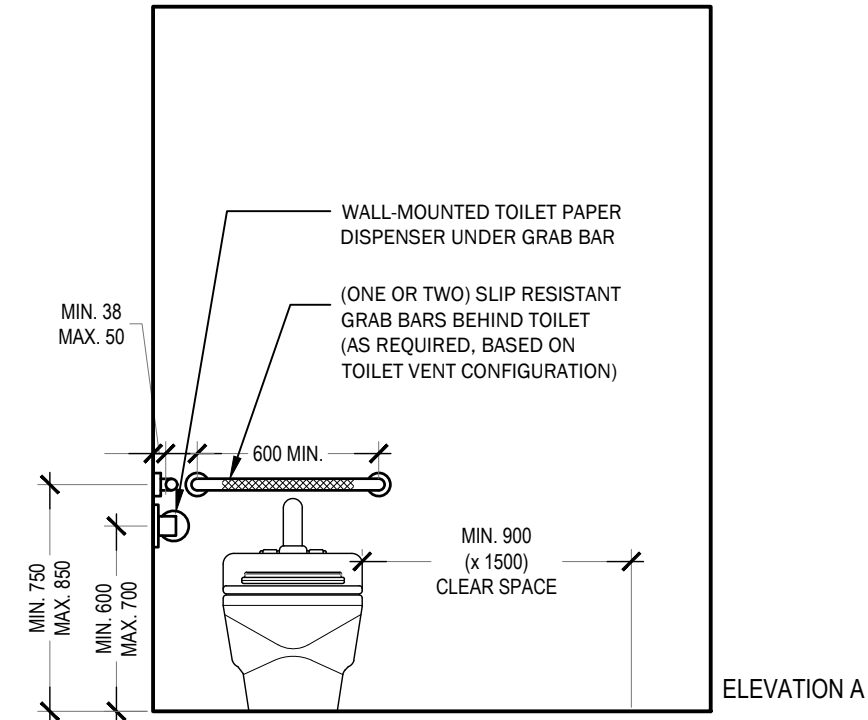
2 WALL FOUNDATION INTERSECTION  
SECTION DETAIL 1:5



3 CORNER ASSEMBLY  
PLAN DETAIL 1:5

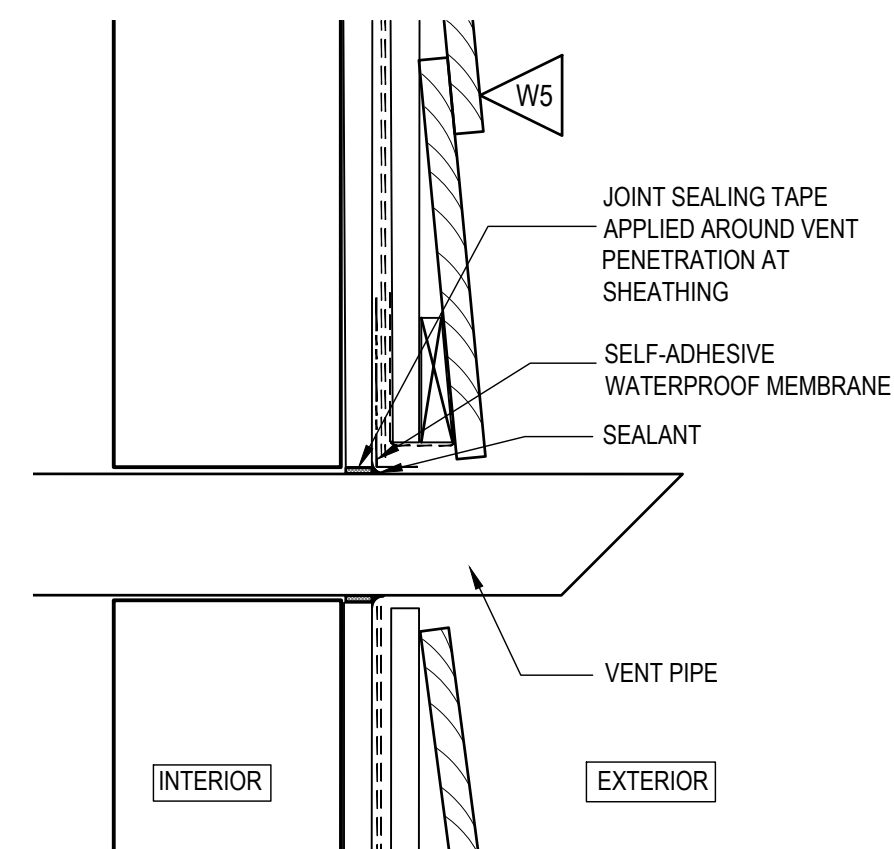


4 ENTRY DOOR (D1-WC)  
SECTION DETAILS 1:5



NOTE: PROVIDE BLOCKING FOR ALL WASHROOM ACCESSORIES AND GRAB BARS.

5 WATER CLOSET  
INTERIOR ELEVATION DETAILS 1:25



6 WALL VENT PENETRATION  
SECTION DETAIL 1:5



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DETAILS



drawn by  
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drawing no.  
dessine no.

A17

**D01) GENERAL****D01-1 GENERAL INFORMATION**

- THE INFORMATION PRESENTED ON THESE DRAWINGS HAS BEEN DESIGNED AND ANALYZED IN ACCORDANCE WITH THE 2015 NATIONAL BUILDING CODE OF CANADA DIVISION B. CONSTRUCTION IS TO BE PERFORMED IN ACCORDANCE WITH THIS AND ALL OTHER APPLICABLE CODES.
  - 1.1 CONCRETE STRUCTURE DESIGNED IN ACCORDANCE WITH CSA A23.3-14
  - 1.2 WOOD STRUCTURE DESIGNED IN ACCORDANCE WITH CSA-086-14
- THE ROOF HAS BEEN DESIGNED FOR THE REQUIRED STORM WATER FLOW RESTRICTION IN ACCORDANCE WITH 2015 NATIONAL BUILDING CODE OF CANADA DIVISION B REQUIREMENTS.
- CONTRACTOR IS TO VERIFY/COORDINATE ALL DIMENSIONS/PENETRATIONS WITH ARCHITECTURAL/MECHANICAL/ELECTRICAL DRAWINGS PRIOR TO CONSTRUCTION. REPORT INCONSISTENCIES BEFORE PROCEEDING WITH WORK. ANY OPENINGS NOT INDICATED ON STRUCTURAL DRAWINGS ARE TO BE APPROVED BY DEPARTMENTAL REPRESENTATIVE IN WRITING PRIOR TO CONSTRUCTION.
- LADDERS SHALL BE DESIGNED AND CERTIFIED BY THE FABRICATOR'S PROFESSIONAL ENGINEER LICENSED IN ONTARIO IN ACCORDANCE WITH LOADS PROVIDED IN DIVISION B PART 4 AND PART 3 OF THE 2015 NATIONAL BUILDING CODE OF CANADA. STAMPED SHOP DRAWINGS TO BE SUBMITTED.
- SEISMIC RESTRAINT OF ARCH/MECH/ELECT ELEMENTS NOT NOTED ON THE DRAWINGS ARE THE RESPONSIBILITY OF THE CONTRACTOR'S ENGINEER. RESTRAINT DETAILS ARE TO BE DEVELOPED IN ACCORDANCE WITH THE 2015 NBCC DIVISION B. CONTRACTOR'S ENGINEER IS RESPONSIBLE FOR THE DESIGN AND DETAILING OF SEISMIC RESTRAINTS AND ISOLATIONS AS REQUIRED BY SPECIFICATIONS INCLUDING THE VERIFICATION THAT THE EXISTING/NEW STRUCTURE IS CAPABLE OF SAFELY SUPPORTING THE IMPOSED LOADS IN ACCORDANCE WITH THE 2015 NBCC DIVISION B. NO ELEMENTS MAY BE CONSTRUCTED WITHOUT WRITTEN CONFIRMATION OF THESE CONDITIONS BY CONTRACTOR'S ENGINEER.
- NO FOUNDATION ELEMENTS ARE TO BE CONSTRUCTED UNTIL WRITTEN APPROVAL OF THE BEARING SURFACES AND PRESSURES IS PROVIDED BY A GEOTECHNICAL ENGINEER THROUGH ON-SITE INVESTIGATION. FAILURE TO COMPLETE THIS WORK COULD RESULT IN THE REMOVAL/REINSTATEMENT OF ANY/ALL FOUNDATION ELEMENTS AT CONTRACTOR'S OWN COST.
- CONTRACTOR IS REQUIRED TO SUBMIT CONDUIT AND SLEEVING SHOP DRAWINGS FOR ALL FLOORS/ROOFS/WALLS/COLUMNS PRIOR TO THE ERECTION/CONSTRUCTION/FABRICATION OF ANY OF THESE ELEMENTS. THE DRAWINGS ARE TO LOCATE/DIMENSION THE CLEAR SIZES OF OPENINGS/SLEEVES/CONDUITS IN PLAN (FLOORS/ROOFS/COLUMNS) AND ELEVATION (WALLS/BEAMS). THE COORDINATION OF THE VARIOUS DISCIPLINES/SUBTRADES TO ENSURE ALL ITEMS ARE CLEARLY INDICATED IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. DRAWINGS ARE TO BE SUBMITTED A MINIMUM OF 4 WEEKS PRIOR TO THE CONSTRUCTION OF THE AFFECTED ELEMENT.

**D01-2 GRAVITY LOADS:****IMPORTANCE FACTORS:**

SNOW: Is ULS = 1.0, SLS = 0.9  
WIND: Iw: ULS = 1.0, SLS = 0.75  
SEISMIC Ie: ULS = 1.0

**SNOW LOAD PARAMETERS: PICTON, ONTARIO**

S = Is [Sa(Cb\*Cb\*Cs\*Ca) + Sr]  
Ss = 2.0 kPa (1/50)  
Sr = 0.4 kPa (1/50)  
Cb = 0.8  
Ca = VARIES  
Cw = 1.0  
Cs = 1.0

**DESIGN LOADS****ROOF:**

DEAD: 150mm CLT: 0.75 kPa  
ROOFING: 0.25 kPa  
CEILING: 0.25 kPa  
MECH.: 0.25 kPa  
1.50 kPa

LIVE: ROOF: 1.00 kPa  
SNOW: 2.0 kPa (+ DRIFT AS SHOWN ON PLAN)

**D01-3 LATERAL LOADING DATA:****SEISMIC FORCE RESISTING SYSTEM (SFRS)**

SFRS: SYSTEM & CONNECTIONS: (2015 NBCC DIVISION B CLAUSE 4.1.8.9/4.1.8.10)  
LATERAL LOAD RESISTING SYSTEM: OTHER SYSTEM (AS PER FP INNOVATION / NRCC GUIDELINES)  
Rd = 2.0  
Ro = 1.5  
CSA STANDARD: CSA 086-14  
APPLICABLE CLAUSE(S): 11.0

SFRS: DIAPHRAGMS & CONNECTIONS: (2015 NBCC DIVISION B CLAUSE 4.1.8.15)  
CSA STANDARD: CSA 086-14  
APPLICABLE CLAUSE(S): 11.0

SFRS: SYSTEM FOUNDATIONS: (2015 NBCC DIVISION B CLAUSE 4.1.8.16)  
CSA STANDARD: CSA A23.3-14  
APPLICABLE CLAUSE(S): 21.10  
☐ FOR ANCHORED FOOTINGS  
☒ FOR UNANCHORED FOOTINGS

CONFIRMATION: FOUNDATIONS HAVE BEEN DESIGNED TO RESIST THE LATERAL FORCES APPLIED TO THE SFRS IN ACCORDANCE WITH THE 2015 NBCC DIVISION B INCLUDING ALL APPLICABLE AMPLIFICATION FACTORS.

**SEISMIC IMPORTANCE FACTOR:** (2015 NBCC DIVISION B CLAUSE 4.1.8.5)**Ie** = 1.0**REFERENCE CITY:** PICTON, ONTARIO

**SITE CLASS:** THE NOTED SITE CLASSIFICATION FOR SEISMIC SITE RESPONSE AND SHEAR STRENGTH PARAMETERS INDICATED ARE AS REPORTED IN THE GEOTECHNICAL REPORT: 656493 BY: SNC LAVALIN DATED: JUNE, 2018

☐ A ☐ B ☒ C ☐ D ☐ E ☐ F (SITE SPECIFIC SPECTRUM: )

**PGA:** 0.098 **PGV:** 0.086**RESPONSE SPECTRUM DATA:**

**5% DAMPED SPECTRAL RESPONSE ACCELERATION VALUES FOR REFERENCE CITY:** (2015 NBCC DIVISION B SUPPLEMENTARY STANDARD SB-1)

Sa(0.2) = 0.159  
Sa(0.5) = 0.104  
Sa(1.0) = 0.061  
Sa(2.0) = 0.031  
Sa(5.0) = 0.0078  
Sa(10.0) = 0.0032

**DESIGN SPECTRAL RESPONSE ACCELERATION VALUES (DSRAV):** (2015 NBC DIVISION B CLAUSE 4.1.8.4)**CLASS 'C':** (Fa = 1.00; Fv = 1.00)

Sa(0.2) = 0.159  
Sa(0.5) = 0.104  
Sa(1.0) = 0.061  
Sa(2.0) = 0.031  
Sa(5.0) = 0.0078  
Sa(10.0) = 0.0032

**SYSTEM RESTRICTION VALUE:** **Ie**FaSa(0.2) = 0.159 ≤ 0.35 ☐ YES (DYNAMIC ANALYSIS REQUIRED)  
☒ NO (STATIC ANALYSIS MAY BE USED)

**PERIOD DATA:****EMPIRICAL PERIOD:** (2015 NBCC DIVISION B CLAUSE 4.1.8.11.(3)) (a),(b)or(c)

Ta(EMPIRICAL)NS = 0.11 sec  
Ta(EMPIRICAL)EW = 0.11 sec

**MODAL PERIOD:** (2015 NBCC DIVISION B CLAUSE 4.1.8.11.(3)(d) AND 4.1.8.3.(8))

TaMODALNS = N/A  
TaMODALEW = N/A

**DESIGN PERIODS/MODE & MOMENT FACTORS:** (2015 NBCC DIVISION B CLAUSE 4.1.8.11.(5))

20 ≤  $\frac{Sa(0.2)}{Sa(0.5)}$  = 21 ≤ 40

TaDESIGNNS = 0.11 sec Mv = 1.0 J = 1.0  
TaDESIGNEW = 0.11 sec Mv = 1.0 J = 1.0

**DESIGN FUNDAMENTAL PERIOD BASED DSRAV:** (2015 NBCC DIVISION B CLAUSE 4.1.8.11.(2))

S/TaNS = 0.159  
S/TaEW = 0.159

**IRREGULARITY REVIEW:** (2015 NBCC DIVISION B CLAUSE 4.1.8.6)

- VERTICAL STIFFNESS: ☐ YES ☒ NO
- WEIGHT: ☐ YES ☒ NO
- VERTICAL GEOMETRIC: ☐ YES ☒ NO
- IN PLANE DISCONTINUITY: ☐ YES ☒ NO
- OUT OF PLANE: ☐ YES ☒ NO
- WEAK STOREY: ☐ YES ☒ NO
- TORSIONAL: ☐ YES ☒ NO  
BNS = N/A  
BEW = N/A
- NON-ORTHOGONAL: ☐ YES ☒ NO

CONCLUSION: BUILDING IS ☒ REGULAR ☐ IRREGULAR  
DYNAMIC ANALYSIS: ☐ REQUIRED ☒ NOT REQUIRED  
DYNAMIC PROCEDURE: METHOD: ☐ MODAL RESPONSE SPECTRUM ☐ NUMERICAL INTEGRATION TIME HISTORY ☒ N/A

**TORSIONAL ECCENTRICITY:**

- ± 0.10 Dnx (4.1.8.11(10a), B ≤ 1.7 EQUIV. STATIC FORCE PROCEDURE)
- ± 0.10 Dnx (4.1.8.12(4a), B ≥ 1.7)
- ± 0.05 Dnx (4.1.8.12(4b), B < 1.7, 3-D DYNAMIC ANALYSIS)

**STRUCTURAL SEPARATION:**

- THE ADJACENT STRUCTURES HAVE BEEN SEPARATED IN ACCORDANCE WITH 4.1.8.14(1) OF THE 2015 N.B.C. DIVISION B
- N/A

**BUILDING WEIGHT FOR SEISMIC DESIGN:** W = 300 KN**BASE SHEARS/MOMENTS:**VSTATIC = S(Ta)MvI<sub>EW</sub>/(RdRo) = W \* 0.054 = 20 KN**STATIC MAXIMUM/MINIMUM VALUES:****NORTH-SOUTH:** (↕)

VMIN = S(4.0)MvI<sub>EW</sub>/(RdRo) = W \* 0.01 = 3 KN  
VMAX =  $\frac{2}{3}$  S(0.2)I<sub>EW</sub>/(RdRo) = W \* 0.04 = 12 KN ☒ GOVERNS  
VMAX = S(0.5)I<sub>EW</sub>/(RdRo) = W \* 0.04 = 12 KN ☐ GOVERNS

**EAST-WEST:** (↔)

VMIN = S(4.0)MvI<sub>EW</sub>/(RdRo) = W \* 0.01 = 3 KN  
VMAX =  $\frac{2}{3}$  S(0.2)I<sub>EW</sub>/(RdRo) = W \* 0.04 = 12 KN ☒ GOVERNS  
VMAX = S(0.5)I<sub>EW</sub>/(RdRo) = W \* 0.04 = 12 KN ☐ GOVERNS

| SEISMIC LOADS   |  |   |
|---|--|---|
| EQUIVALENT STATIC (ES) FORCE PROCEDURE<br>2015 NBCC DIVISION B CLAUSE 4.1.8.11(1)-(10)  | DYNAMIC ANALYSIS (DYI) PROCEDURE (INITIAL SCALING FACTOR)<br>2015 NBCC DIVISION B CLAUSE 4.1.8.12(1)-(5) | DESIGN (D) LOADS (2)  |
| NORTH-SOUTH: (↕)  | NORTH-SOUTH: (↕)   | NORTH-SOUTH: (↕)  |
| VESNS = W * 0.04 = 12 KN<br>MESNS = 33 KN * m   | VOYNS = N/A<br>MOYNS = N/A<br>MPMR = N/A   | VONS = 12 KN<br>MONS = 33 KN * m<br><br>NON-ORTHOGONAL EFFECTS HAVE BEEN CONSIDERED IN ACCORDANCE WITH 2015 NBCC DIVISION B CLAUSE 4.1.8.8 (c)<br><input type="checkbox"/> YES<br><input checked="" type="checkbox"/> N/A |
| EAST-WEST: (↔)  | EAST-WEST: (↔)   | EAST-WEST: (↔)  |
| VESEW = W * 0.04 = 12 KN<br>MESEW = 33 KN * m   | VOYEW = N/A<br>MOYEW = N/A<br>MPMR = N/A   | VOEW = 12 KN<br>MOEW = 33 KN * m<br><br>NON-ORTHOGONAL EFFECTS HAVE BEEN CONSIDERED IN ACCORDANCE WITH 2015 NBCC DIVISION B CLAUSE 4.1.8.8 (c)<br><input type="checkbox"/> YES<br><input checked="" type="checkbox"/> N/A |
| <b>NOTES:</b><br>(1) <b>INITIAL DYNAMIC LOAD SCALING FACTOR</b><br>$S.F. = g \cdot \frac{I_e}{R_d R_o} = g \cdot 0.87 = 5.031$<br>DYNAMIC ANALYSIS PROCEDURE LOADS ARE BASED ON THE EVALUATION OF THE BUILDING WITH THE INITIAL SCALING FACTOR APPLIED. WHEN USED THESE ARE COMPARED TO THE STATIC FORCE VALUE IN ACCORDANCE WITH 4.1.8.12 OF THE 2015 NBCC DIVISION B TO DETERMINE DESIGN LOAD VALUES.<br>(2) DESIGN LOAD SHEAR VALUES ARE BASED ON THE EVALUATION OF VES AND VOYIN IN ACCORDANCE WITH 4.1.8.12 OF THE 2015 NBCC DIVISION B. LOADS INDICATED SHOW THE DESIGN BASE SHEAR AND CORRESPONDING OVERTURNING MOMENT.<br>(3) N/A = NOT DETERMINED.<br>(4) FABRICATOR/ENGINEER PERFORMING DETAILED DESIGN OF CLT FRAMING/WALLS/ROOF DECK TO CONFIRM/VERIFY LOADING CONDITIONS NOTED. LOADING CONDITIONS ARE MINIMUM FORCE LEVELS. |  |   |

**D01-3.1 WIND:**

(REFERENCE CITY: PICTON, ONTARIO)

**WIND:** **NORTH-SOUTH:** (↕)

q = 0.49 kPa  
(1 IN 50 YEARS)

Vbase = 30 KN  
Mbase = 45 KN \* m

Iw = 1.0 (ULS)  
Iw = 0.75 (SLS)

**EAST-WEST:** (↔)  
Vbase = 20 KN  
Mbase = 30 KN \* m

NOTE: FABRICATOR/ENGINEER PERFORMING DETAILED DESIGN OF CLT FRAMING/WALLS/ROOF DECK TO CONFIRM/VERIFY LOADING CONDITIONS NOTED. LOADING CONDITIONS ARE MINIMUM FORCE LEVELS.

**D01-4 SHOP DRAWINGS**

- SUBMIT SHOP DRAWINGS FOR ALL STRUCTURAL WORK AND ANY WORK AFFECTING THE STRUCTURE TO THE DEPARTMENTAL REPRESENTATIVE. OBTAIN DEPARTMENTAL REPRESENTATIVE'S APPROVAL BEFORE PROCEEDING WITH THE FABRICATION.
- EACH OF THE FOLLOWING SHOP DRAWINGS MUST BEAR THE SIGNATURE AND STAMP OF A QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE (PLUS OTHER DRAWINGS AS NOTED).
  - DRAWINGS FOR ANY TEMPORARY WORK.
  - DRAWINGS FOR ANY STRUCTURAL PARTS DESIGNED BY THE CONTRACTOR'S FORCES INCLUDING EXTERIOR BUILDING ENVELOPE.
  - STRUCTURAL STEEL/JOISTS.
  - FORMWORK
- SHOP DRAWINGS MUST BE REVIEWED AND STAMPED REVIEWED BY THE CONTRACTOR BEFORE ISSUING TO THE DEPARTMENTAL REPRESENTATIVE. SHOP DRAWINGS NOT STAMPED BY THE CONTRACTOR WILL BE REJECTED. ANY DELAYS IN THE CONSTRUCTION SCHEDULE DUE TO NONCOMPLIANCE WITH THIS REQUIREMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- SUBMIT STRUCTURAL STEEL, STEEL JOIST AND STEEL DECK SHOP DRAWINGS FOR DEPARTMENTAL REPRESENTATIVE'S REVIEW BEFORE FABRICATION. ALL SHOP DRAWINGS SHALL BEAR THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER IN THE PROVINCE OF ONTARIO.
- SHOP DRAWINGS ARE REVIEWED FOR CONFORMANCE WITH THE GENERAL DESIGN CONCEPT. THIS REVIEW DOES NOT IMPLY APPROVAL OF THE DETAILED DESIGN OR QUANTITIES DESCRIBED IN THE SHOP DRAWINGS. THE RESPONSIBILITY FOR THE QUANTITIES AND DETAILED DESIGN OF THE MATERIALS AND COMPONENTS AS REQUIRED TO PROVIDE THE COMPLETE AND SATISFACTORY JOB DESCRIBED IN THE DESIGN DOCUMENTS REMAINS WITH THE CONTRACTOR.

**D01-5 DEFINITIONS**

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED IN THESE NOTES AND DRAWINGS:

|       |                             |                  |      |                            |
|-------|-----------------------------|------------------|------|----------------------------|
| @     | ARCH.                       | AT (SPACING c/c) | mm   | MILLIMETRES                |
| B     | BOTTOM                      | ARCHITECTURAL    | MAX. | MAXIMUM                    |
| BF    | BRACE FRAME                 | MECH             | MECH | MECHANICAL                 |
| BLL   | BOTTOM LOWER LAYER          | MIN.             | MIN. | MINIMUM                    |
| BUL   | BOTTOM UPPER LAYER          | NF               | NF   | NEAR FACE                  |
| BP    | BEAM POCKET                 | NTS              | NTS  | NOT TO SCALE               |
| c/c   | CENTRE TO CENTRE            | OF               | OF   | OUTSIDE FACE               |
| CL    | CENTRE LINE                 | PCO              | PCO  | PILE CUT-OFF               |
| CONT. | CONTINUOUS                  | PL               | PL   | PLATE                      |
| CW    | CORE WALL                   | SMR              | SMR  | STANDARD GALVANIZED LADDER |
| DWLS  | DOWELS                      | SW               | SW   | MASONRY REINFORCEMENTS     |
| EA    | EACH                        | T                | T    | SHEARWALL                  |
| EE    | EACH END                    | TLL              | TLL  | TOP                        |
| EF    | EACH FACE                   | TUL              | TUL  | TOP LOWER LAYER            |
| EL    | ELEVATION                   | TOPC             | TOPC | TOP UPPER LAYER            |
| ES    | EACH SIDE                   | TYP.             | TYP. | TOP OF PILE CAP            |
| EW    | EACH WAY                    | UN               | UN   | TYPICAL                    |
| FF    | FAR FACE                    | UL               | UL   | UNLESS OTHERWISE NOTED     |
| H     | HORIZONTAL                  | US               | US   | UPPER LAYER                |
| HDMR  | HEAVY DUTY GALVANIZED TRUSS | V                | V    | UNDERSIDE                  |
|       | TYPE MASONRY REINFORCEMENT  |                  |      | VERTICAL                   |
| IF    | INSIDE FACE                 |                  |      |                            |
| LL    | LOWER LAYER                 |                  |      |                            |
| m     | METRES                      |                  |      |                            |



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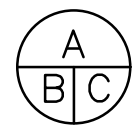


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project title  
titre du projet

ENVIRONMENT AND CLIMATE CHANGE CANADA  
Prince Edward Point National Wildlife Area  
VISITOR'S EXPERIENCE IMPROVEMENTS

South Marysburgh Twp, Ontario

drawing title  
titre du dessin

GENERAL NOTES  
AND DETAILS



drawn by  
dessine par

S.H.

designed by  
conc par

B.J.

approved by  
approuve par

bid

offre

PSPC PROJECT  
MANAGER

project manager  
administrateur  
de projets

project date  
date du projet

2018-08-24

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no. du projet

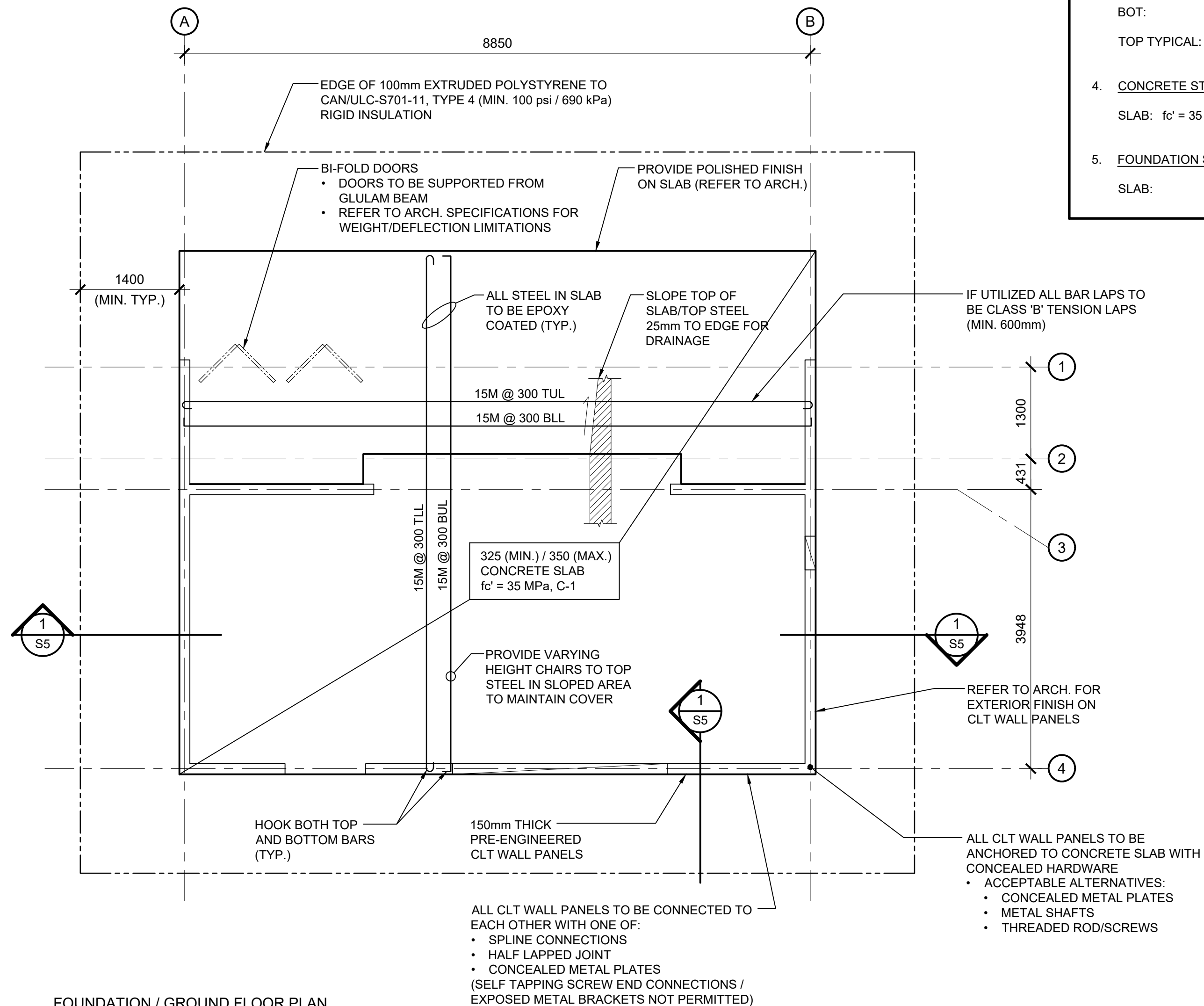
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dessine no.

S1



CAD FILE: 17-0273B S100.dwg

**CONCRETE SLAB / REBAR NOTES**

- COVER:** BOT. = 75mm CLEAR TO BLL U/N  
TOP = 65mm CLEAR TO TUL U/N
- REINFORCING STEEL LAYOUT/COATING:**

BUL | BLL —  
TLL | TUL —

  - ALL BARS TO BE EPOXY COATED
  - LAP BARS WITH FULL CLASS 'B' TENSION LAPS (MIN. 600mm)
- MINIMUM REINFORCING U/N NOTED ON PLANS:**

BOT: 15M @ 300 (+ HOOK AT ENDS)

TOP TYPICAL: 15M @ 300 T (+ HOOK AT ENDS)
- CONCRETE STRENGTH:**

SLAB:  $f_c' = 35$  MPa, C-1
- FOUNDATION SLAB GEOMETRY U/N:**

SLAB: 325mm/350mm U/N



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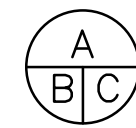


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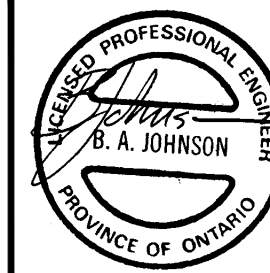
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VISITOR'S EXPERIENCE IMPROVEMENTS

South Marysburgh Twp, Ontario

drawing title  
titre du dessin

FOUNDATION/  
GROUND FLOOR  
PLAN



drawn by  
dessiné par S.H.

designed by  
conc par B.J.

approved by  
approuvé par

bid  
offre

PSPC PROJECT  
MANAGER

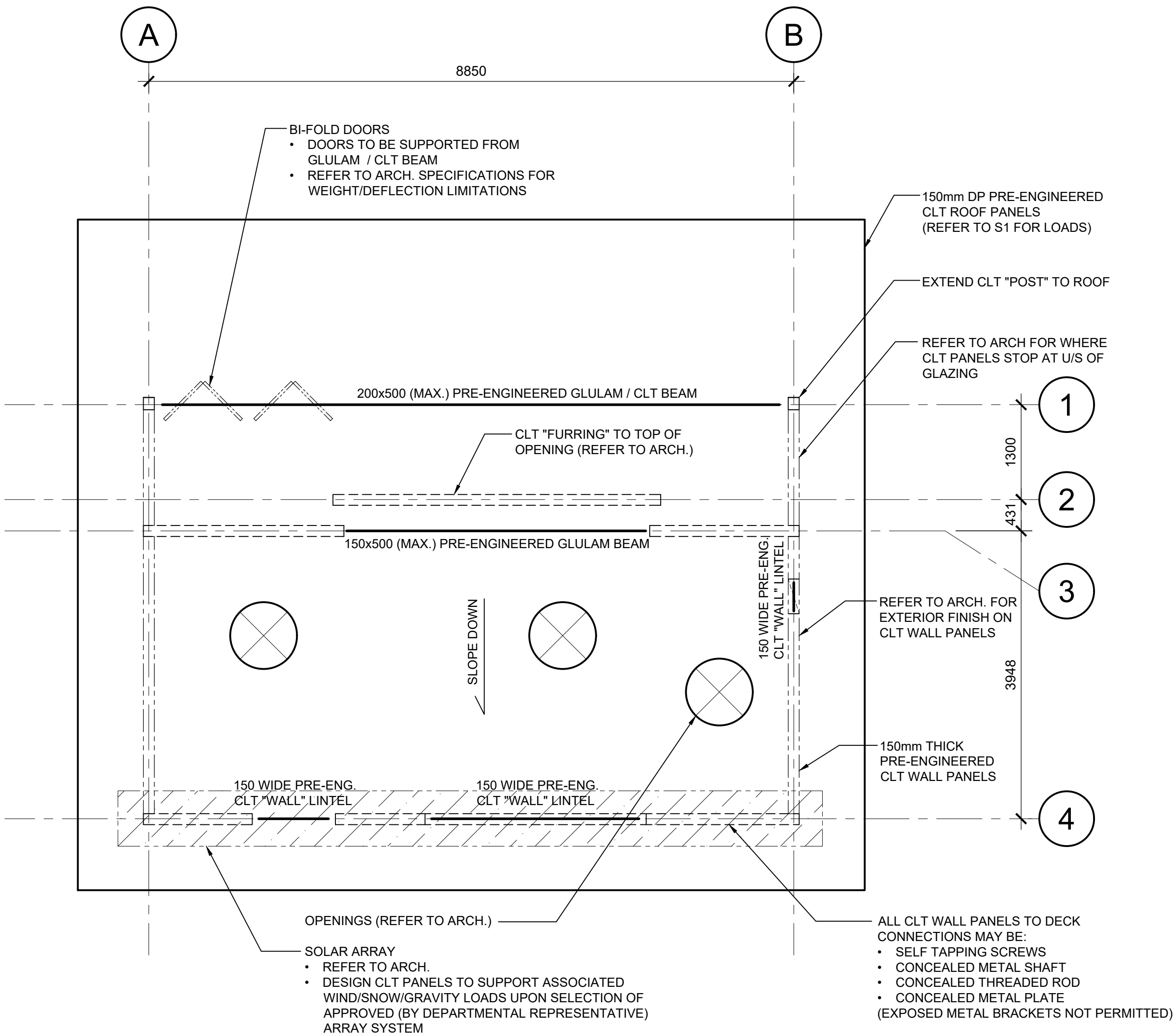
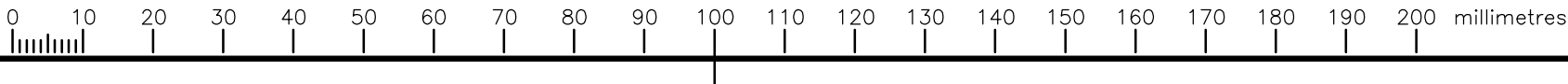
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dessiné no. S3





**ROOF PLAN**  
SCALE 1:50



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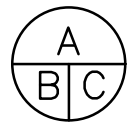


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Prince Edward Point National Wildlife Area  
VISITOR'S EXPERIENCE IMPROVEMENTS  
South Marysburgh Twp, Ontario

drawing title  
titre du dessin

ROOF PLAN



drawn by  
dessine par S.H.

designed by  
conc par B.J.

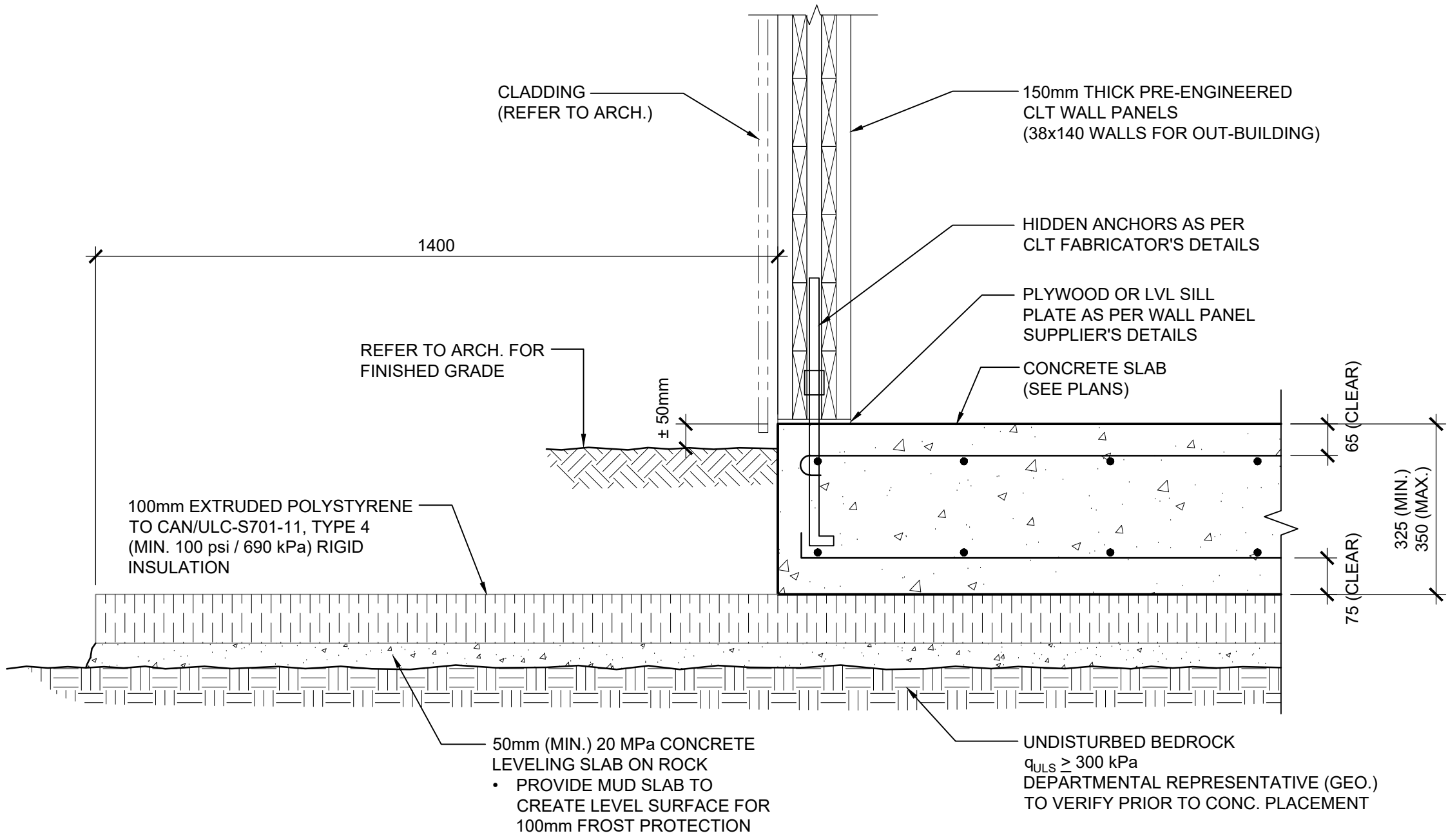
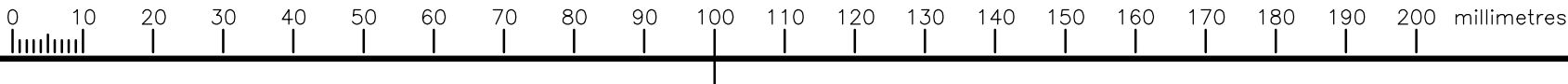
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approuve par

bid  
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MANAGER project manager  
administrateur  
de projets

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date du projet 2018-08-24

project no.  
no. du projet R.080100.002

drawing no.  
dessine no. S4



1 SECTION: FOUNDATION SLAB / FROST PROTECTION  
S5 SCALE 1:10



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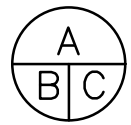


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SECTIONS



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dessiné par S.H.

designed by  
conc par B.J.

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drawing no.  
dessiné no. S5

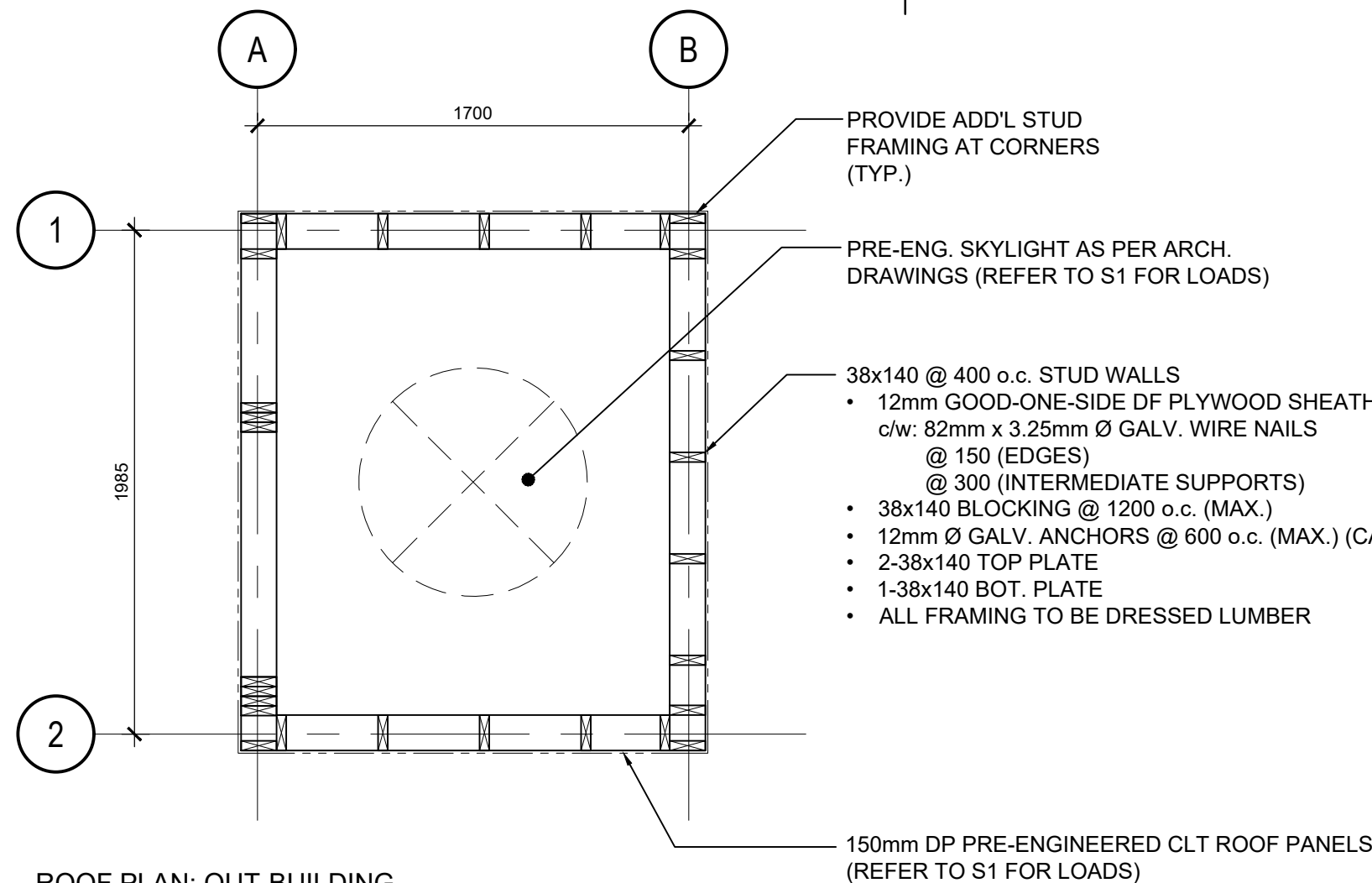


**CONCRETE SLAB / REBAR NOTES**

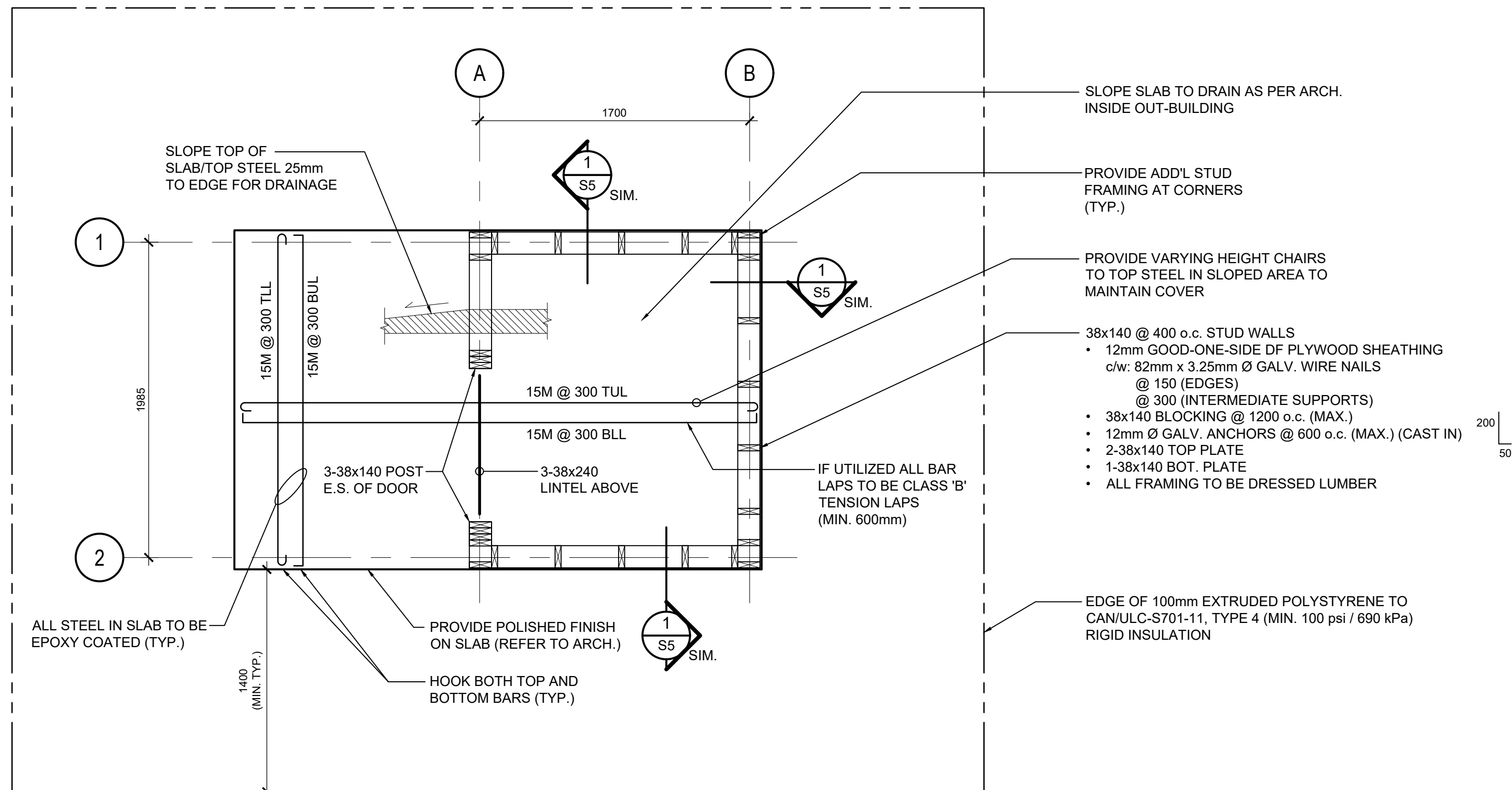
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|-----|-----|-----|
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 SLAB: 325mm/350mm U/N

**ROOF PLAN: OUT-BUILDING**

SCALE 1:25

**FOUNDATION / GROUND FLOOR PLAN: OUT-BUILDING**

SCALE 1:25



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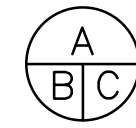


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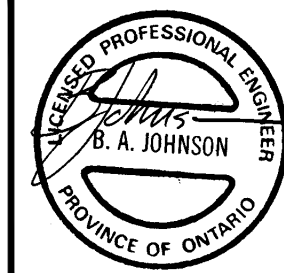
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Prince Edward Point National Wildlife Area  
VISITOR'S EXPERIENCE IMPROVEMENTS

South Marysburgh Twp, Ontario

drawing title  
titre du dessin

OUT-BUILDING  
PLANS



drawn by  
dessiné par S.H.

designed by  
conc par B.J.

approved by  
approuvé par

bid  
offre PSPC PROJECT  
MANAGER project manager  
administrateur  
de projets

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drawing no.  
dessiné no. S6

MECHANICAL NOTES

1.0 GENERAL CONDITIONS

- 1.1 GENERAL CONDITIONS, INSTRUCTIONS TO BIDDERS AND THE CONTRACT DOCUMENTS AND REQUIREMENTS FORM PART OF THIS DOCUMENT.
- 1.2 NO EXTRA SHALL BE PAID TO THE CONTRACTOR FOR WORK, OTHER THAN THAT SPECIFIED; EXCEPT WHERE A WRITTEN AUTHORIZATION HAS BEEN OBTAINED.
- 1.3 THE CONTRACTOR SHALL CO-ORDINATE THE INSTALLATION OF ALL EQUIPMENT WITH ALL THE TRADES BEFORE COMMENCING INSTALLATION TO AVOID CONFLICTS.
- 1.4 THE CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES AND TAXES RELATED TO THEIR TRADE AS REQUIRED BY THE AUTHORITIES AND THEY SHALL MEET ALL PERTINENT CODES AND REGULATION REQUIREMENTS.
- 1.5 SHOP DRAWINGS COVERING ALL THE MECHANICAL TRADES SHALL BE SUPPLIED IN THREE (3) COPIES FOR APPROVAL BY THE DEPARTEMENTAL REPRESENTATIVE.
- 1.6 ALL MATERIALS SHALL BE NEW AND C.S.A. APPROVED UNLESS OTHERWISE INDICATED.
- 1.7 THE CONTRACTOR SHALL CLEAN THE SITE OF ALL DEBRIS CAUSED BY THEIR WORK AND WILL KEEP THE SITE CLEAN DURING THE ENTIRE CONSTRUCTION PERIOD.
- 1.8 AT THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL MAKE ALL THE NECESSARY TESTS IN ORDER TO PROVE THAT THEIR WORK MEETS THE REQUIRED CONDITIONS AND CODE COMPLIANCE
- 1.9 DOCUMENTS :
- ALL CHANGES IN THE WORK SHALL BE NOTED IN RED PEN ON THE PLANS WHEN THEY ARE MADE. WHEN THE WORK IS COMPLETED, ONE COPY OF MARKED-UP "AS-BUILT DRAWINGS" SHALL BE SUBMITTED TO THE DEPARTMENTAL REPRESENTATIVE. PROVIDE THREE (3) COPIES OF OPERATIONS AND MAINTENANCE MANUALS IN 3 RING HARD COVERED BINDERS OF ALL EQUIPMENT.

1.10 GUARANTEES AND WARRANTIES :

THE CONTRACTOR SHALL GUARANTEE THEIR WORK IN WRITING OF ALL WORK AND EQUIPMENT INSTALLED FOR A PERIOD OF ONE YEAR STARTING FROM SUBSTANTIAL COMPLETION OF THE CONTRACT.

1.11 SIESMIC PROTECTION :

INSTALL ALL EQUIPMENT WITH REQUIRED SIESMIC RESTRAINTS TO SUIT APPLICABLE CODES.

2.0 PLUMBING

2.1 SCOPE OF WORK:

SUPPLY, INSTALLATION AND CONNECTION OF PLUMBING FIXTURE INCLUDING ALL NECESSARY SANITARY DRAINAGE, VENTS AND ASSOCIATED EQUIPMENT & ACCESSORIES AS INDICATED OR REQUIRED BY APPLICABLE CODES AND MANUFACTURER'S RECOMMENDATIONS.

2.2 PLUMBING CODE:

APPLICABLE CODE SHALL APPLY AND IS PART OF THIS CONTRACT. REFER TO THE APPROPRIATE LOCAL AUTHORITIES.

2.3 PLUMBING FIXTURES:

COMPOSTING TOILET - WC:  
COMPOSTING TOILET MANUFACTURER TO HAVE A MINIMUM OF 10 YEARS OF EXPERIENCE IN THE PRODUCTION OF COMPOSTING TOILETS. ALL RELATED PRODUCTS AND ACCESSORIES ARE TO BE PROVIDED BY TOILET MANUFACTURER. SELF-CONTAINED, NON-ELECTRIC, ODORLESS, VENT ALLOWS FOR BENDS OR HORIZONTAL CONNECTION. PROVIDE WITH RECYCLING BED, WASTE DISPOSAL CONTAINER, IN-VENT FAN, SOLAR PANEL AND BATTERY. SEE PLUMBING FIXTURE SCHEDULES.

5.0 VENTILATION:

5.1 SCOPE OF WORK:

SUPPLY AND INSTALLATION OF ALL DUCTWORK, FANS AND LOUVERS, DAMPERS ETC. AS SHOWN ON THE DRAWINGS.

START UP, TESTING AND COMMISSIONING IN ACCORDANCE W/ MANUFACTURERS INSTRUCTIONS. CONFIRM ALL NORMAL OPERATION AND SAFETY CONTROLS.

"AS-BUILT" DRAWINGS AND SPECIFICATIONS.

5.2 DUCTWORK:

ALL NEW DUCTWORK SHALL BE MANUFACTURED, INSTALLED AND HUNG IN STRICT ACCORDANCE WITH ASHRAE AND SMACNA.

ALL DUCTWORK TO BE SOLID GALVANIZED.

5.3 MATERIALS:

LOUVERS:  
ALL LOUVERS SHALL BE INSTALLED USING CONCEALED FASTENERS.

\*SEE LOUVER SCHEDULE ON DRAWINGS. LOUVER TYPES AND SIZES TO COMPLY WITH SCHEDULE.

5.4 EQUIPMENT:

ROOF EXHAUST FANS - EF:  
SPUN ALUMINUM DOWNBLAST EXHAUSTER, DIRECT DRIVE TYPE AND ALUMINUM CENTRIFUGAL BACKWARD-INCLINED WHEEL, ROOF MOUNTED WITH EXTENDED CURB AND BIRDSCREEN. PROVIDE WEATHERPROOF DISCONNECT SWITCH. SEE EXHAUST FAN SCHEDULE.

5.5 COORDINATION:

THE CONTRACTOR SHALL COORDINATE LOCATION OF DUCTWORK, EQUIPMENTS AND LOUVERS.



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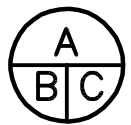


mechanical | electrical | building automation | telecommunications | structure

|    |                   |             |
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VISITOR’S EXPERIENCE IMPROVEMENTS  
  
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MECHANICAL  
NOTES  
AND SCHEDULES

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dessine par

A.LÉCUYER

designed by  
conc par

A.LÉCUYER

approved by  
approuve par

M.WALLACE

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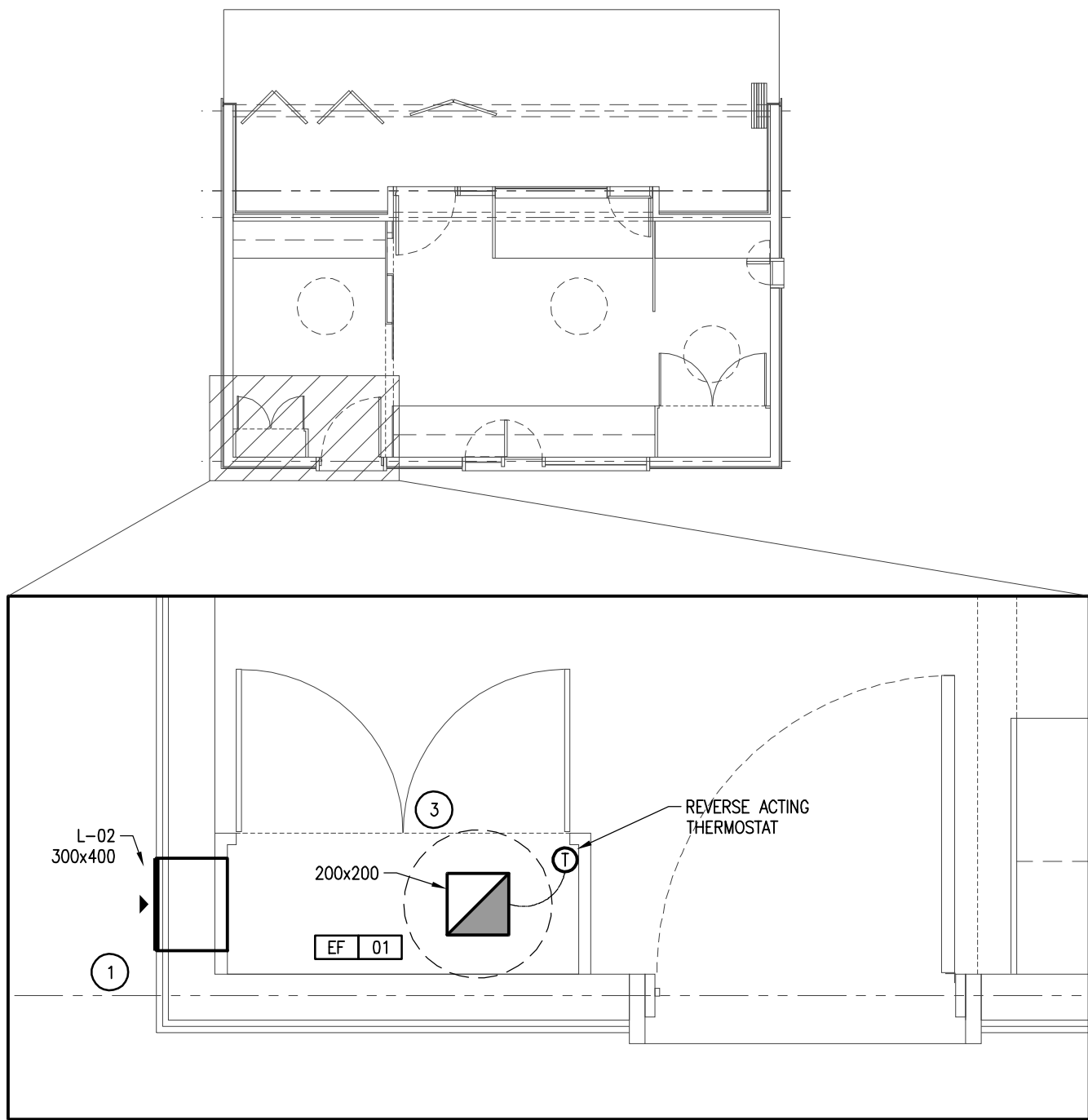
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| LOUVER SCHEDULE |                             |  |                    |             |          |                   |
|-----------------|-----------------------------|--|--------------------|-------------|----------|-------------------|
| REF No.         | APPLICATION                 | NOMINAL DIMENSIONS (mm)<br>(W x H x FRAME DEPTH) | MIN. FREE AREA (%) | BLADE ANGLE | MATERIAL | NOTES             |
| L–01            | OUTBUILDING SUPPLY          | 500 x 300 x 100                                  | 42                 | 45°         | ALUMINUM | C/W INSECT SCREEN |
| L–02            | ELECTRICAL ENCLOSURE SUPPLY | 300 x 400 x 100                                  | 45                 | 45°         | ALUMINUM | C/W INSECT SCREEN |

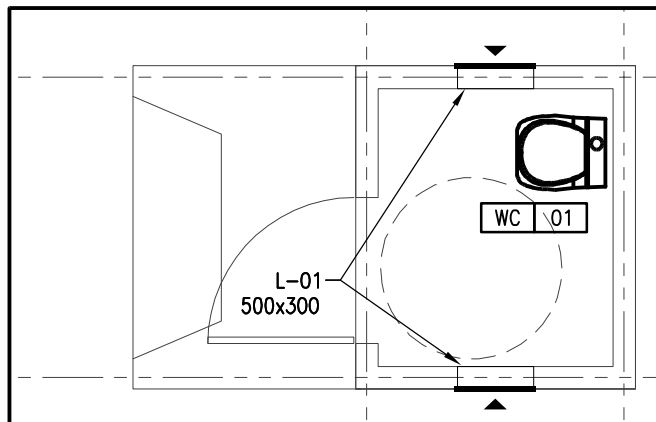
| FAN SCHEDULE |                              |                              |         |                     |                 |      |            |               |                       |   |
|--------------|------------------------------|------------------------------|---------|---------------------|-----------------|------|------------|---------------|-----------------------|---|
| REF No.      | FAN TYPE                     | APPLICATION                  | MOUNTED | FAN CHARACTERISTICS |                 |      | ELECTRICAL |               | OPERATING WEIGHT (KG) | NOTES                                     |
|              |                              |                              |         | AIR FLOW (CFM)      | E.S.P. (in. WG) | RPM  | MOTOR (HP) | VOLTAGE/PHASE |                       |   |
| EF–01        | DIRECT DRIVE CENTRIFUGAL FAN | ELECTRICAL ENCLOSURE EXHAUST | ROOF    | 135                 | 0.1             | 1300 | 1/100      | 115 / 1       | 12                    | C/W REVERSE ACTING THERMOSTAT & ROOF CURB |

| PLUMBING FIXTURES |  |                 |             |         |                      |          |   |
|-------------------|--|-----------------|-------------|---------|----------------------|----------|---|
| REF No.           | TYPE   | DIMENSIONS      | VENTING     |         |                      |          | NOTES   |
|                   |  | HxWxD (in)      | FAN         | BATTERY | TYPE                 | MATERIAL |   |
| WC–01             | SELF–CONTAINED, NON–ELECTRIC COMPOSTING TOILET | 31½ x 22½ x 33½ | 12V–1.4W–DC | 12V–7Ah | THROUGH WALL VENTING | PVC      | C/W RECYCLING BED, WASTE DISPOSAL CONTAINER, IN–VENT FAN, 5W WALL MOUNTED SOLAR PANEL & SEALED LEAD ACID MARINE BATTERY |

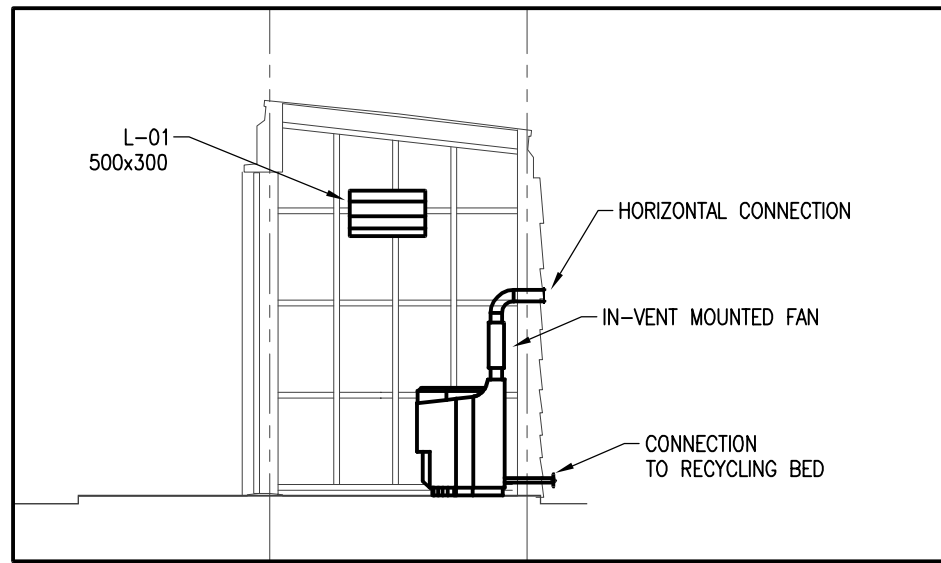




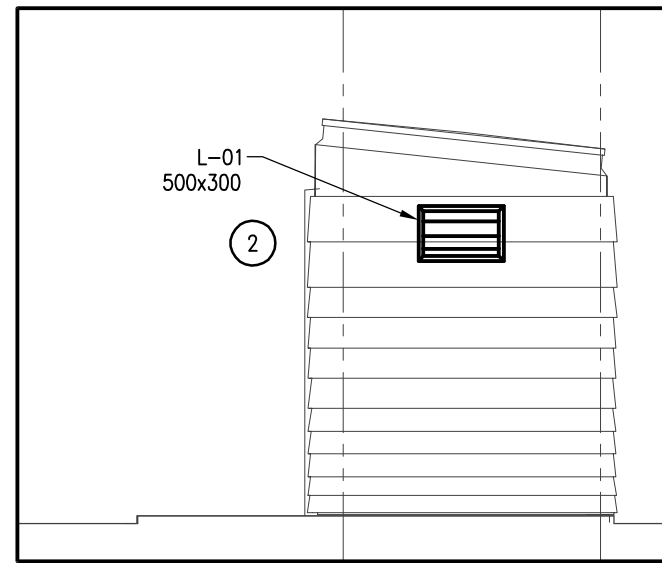
1 BANDING STATION – ELECTRICAL ENCLOSURE  
M101 1:20



2 W.C. OUTBUILDING  
M101 1:50



3 W.C. INSIDE ELEVATION  
M101 1:50



4 W.C. SOUTH ELEVATION  
M101 1:50

### GENERAL NOTE:

1. COMPOSTING TOILET C/W RECYCLING BED AND WASTE DISPOSAL CONTAINER TO BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION WITH THE APPROVAL OF THE APPROPRIATE LOCAL AUTHORITIES.

### DRAWING NOTE:

- 1 LOUVER TO BE INSTALLED 300mm AFF.
- 2 LOUVER TO BE INSTALLED 1700mm AFF.
- 3 ROOF EXHAUST FAN LOCATION TO BE COORDINATED WITH ELECTRICAL AND ARCHITECTURAL. INSTALL WITH BIRD SCREEN AND BACKDRAFT DAMPER.



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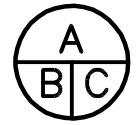
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Do not scale drawings.  
Verify all dimensions and conditions on site and immediately  
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Prince Edward Point National Wildlife Area  
VISITOR'S EXPERIENCE IMPROVEMENTS  
South Marysburgh Twp, Ontario

drawing title  
titre du dessin

MECHANICAL  
VENTILATION  
AND PLUMBING

drawn by  
dessine par

A.LÉCUYER

designed by  
conc par

A.LÉCUYER

approved by  
approuve par

M.WALLACE

bid  
offre

PSPC PROJECT  
MANAGER

project manager  
administrateur  
de projets

project date  
date du projet

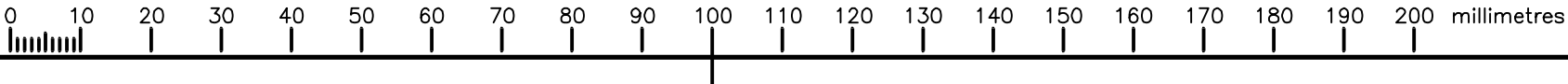
2018-08-24

project no.  
no. du projet

R.080100.002

drawing no.  
dessine no.

M101



|   |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|
| <div>GENERAL INSTRUCTIONS:</div> <div>1. PROTECT EXISTING WORK AND EQUIPMENT DURING CONSTRUCTION.</div> <div>2. TEST ALL SYSTEM COMPONENTS FOR PROPER OPERATION AND SAFETY.</div> <div>3. REFER TO MANUFACTURERS RECOMMENDATIONS FOR ALL SOLAR EQUIPMENT INSTALLATIONS. INSTALL AS REQUIRED TO MEET MANUFACTURERS REQUIREMENTS.</div> <div>NOTES:</div> <div>1.0 GENERAL</div> <div>1. A LICENSED ELECTRICAL CONTRACTOR SHALL PERFORM ALL WORK SHOWN IN THIS ELECTRICAL DRAWING PACKAGE TO SATISFY ALL OF THE RULES AND REGULATIONS AS REQUIRED BY THE LATEST EDITION OF THE CANADIAN ELECTRICAL CODE (CEC).</div> <div>2. DO COMPLETE INSTALLATION IN ACCORDANCE WITH THE FOLLOWING: CEC CSA C22.1-2018, NBC 2015, NFC 2015, AND APPLICABLE LOCAL REGULATIONS C/W INSPECTION CERTIFICATE.</div> <div>3. PRIOR TO TENDER, CONFIRM SITE CONDITIONS AND LOCATION OF NEW EQUIPMENT AS REQUIRED BY MANUFACTURER TO ENSURE PROPER OPERATION OF SOLAR EQUIPMENT.</div> <div>4. DRAWINGS INDICATE GENERAL LOCATION, QUANTITY AND TYPE OF OUTLETS FOR ELECTRICAL SERVICES ONLY. DO NOT SCALE.</div> <div>5. SUBMIT ALL PLANS REQUIRED BY THE INSPECTION AUTHORITY FOR APPROVAL. FURNISH INSPECTION CERTIFICATE, PRIOR TO FINAL PAYMENT, TO SHOW INSTALLED WORK CONFORMS WITH SPECIFICATION AND REGULATIONS. PAY ALL FEES AND PERMIT COSTS. COORDINATE WITH SACC CLAUSES.</div> <div>6. SUBMIT COPY OF SHOP DRAWINGS TO THE DEPARTMENTAL REPRESENTATIVE FOR APPROVAL. PROVIDE SHOP DRAWINGS OF ALL EQUIPMENT AND DEVICES.</div> <div>7. UPON COMPLETION OF WORK PROVIDE MARKUP PRINTS DESCRIBING AS-BUILT CONDITIONS AND 1 COPY OF MAINTENANCE MANUALS. COORDINATE WITH SECTION 01 33 00 AND 01 78 00.</div> <div>8. ALL WIRING DEVICES TO BE SPECIFICATION GRADE.</div> <div>9. INSTALL ELECTRICAL EQUIPMENT AT THE FOLLOWING HEIGHTS UNLESS OTHERWISE INDICATED OR DIRECTED OTHERWISE. (NOT ALL ITEMS PERTAIN TO THIS PROJECT, REFER TO DRAWINGS PROVIDED)<div><div>- LOCAL SWITCHES AND DIMMER SWITCHES: 1100mm</div><div>- GENERAL RECEPTACLES: 400mm</div><div>- RECEPTACLES ABOVE COUNTER: 175mm ABOVE BACKSPLASH</div><div>- PANELBOARDS: AS INDICATED</div><div>- TELECOM AND CABLE TV OUTLETS: 400mm</div><div>- FIRE ALARM PULL STATIONS: 1200mm</div><div>- WALL MOUNTED FIRE ALARM BELLS, HORNS OR STROBES: 2400mm</div><div>- EMERGENCY LIGHTING BATTERY UNITS AND REMOTE HEADS: 2400mm</div><div>- CARD READERS, KEYPADS AND SECURITY DEVICES: 1100mm</div><div>- DOOR CONTACTS: TOP OF DOOR FRAME</div></div></div> <div>2.0 WIRING METHOD</div> <div>1. USE ELECTRICAL METALLIC TUBING (EMT) FOR ALL WORK EXCEPT FOR THE FOLLOWING USAGE:<div>1.1. NMD RECESSED IN WALLS AND CEILINGS.</div></div> <div>2. PROVIDE IN ALL CONDUITS AN INSULATED GREEN GROUNDING CONDUCTOR RUN WITH CIRCUIT CONDUCTORS AND TO ALL ENCLOSURES. PROVIDE MINIMUM SIZE CONDUCTORS FOR BONDING CONDUCTORS FOR EACH NEW CIRCUIT AS INDICATED IN TABLE 16A OF THE ONTARIO ELECTRICAL SAFETY CODE.</div> <div>3. PROVIDE NYLON PULL ROPE IN ALL EMPTY CONDUITS.</div> <div>4. CONDUCTOR MATERIAL (WIRE IN CONDUIT) - ANNEALED COMMERCIAL GRADE, 98% CONDUCTIVITY, COPPER. NO.14 TO NO.10 AWG - SOLID; NO.8 AND LARGER - STRANDED.</div> <div>5. RW90, UNLESS OTHERWISE NOTED. PROVIDE 600V RATED FOR 347/600V AND 120/208V WIRING, SIZES NO.12 AND NO.10 AWG.</div> <div>6. RWU90, NO.8 AND LARGER, 1000V RATED FOR 347/600V AND 120/208V WIRING.</div> <div>7. SMALLEST CONDUCTOR SIZE ALLOWED NO.12 AWG UNLESS OTHERWISE SPECIFIED.</div> <div>3.0 IDENTIFICATION</div> <div>1. IDENTIFY SOURCE, VOLTAGE AND LOAD ON ALL JUNCTION BOXES. USE OF INDELIBLE MARKER FOR THESE LOCATIONS IS ACCEPTABLE.</div> <div>2. ALL CONDUCTORS TO BE COLOUR CODED IN ACCORDANCE WITH CSA C22.1 - SECTION 4.036.</div> <div>3. UPDATE ALL PANELBOARD SCHEDULES AS REQUIRED.</div> <div>4. PROVIDE LAMICOID IDENTIFICATION LABELS ON ALL EQUIPMENT.</div> <div>5. MARK ALL CIRCUIT NUMBERS ON RECEPTACLES, DOWNFEED SERVICE POLES, ETC. WITH BLACK LETTERS ON CLEAR P-TOUCH LABELS.</div> |  |  | <div>4.0 GROUNDING</div> <div>1. GROUNDING EQUIPMENT TO CSA C22.2 NO. 41-13 (R2017). COPPER GROUNDING CONDUCTORS TO CSA C22.1-2018, SECTION 10. INSULATED GROUNDING CONDUCTORS AS HEREIN SPECIFIED.</div> <div>2. NON-CORRODING ACCESSORIES NECESSARY FOR GROUNDING SYSTEM, TYPE, SIZE, MATERIAL AS INDICATED, INCLUDING BUT NOT NECESSARILY LIMITED TO:</div> <div>3. GROUNDING AND BONDING BUSHINGS; PROTECTIVE TYPE CLAMPS; BOLTED TYPE CONDUCTOR CONNECTORS; THERMIT WELDED TYPE CONDUCTOR CONNECTORS; BONDING JUMPERS AND STRAPS; PRESSURE WIRE CONNECTORS.</div> <div>4. INSTALL COMPLETE PERMANENT, CONTINUOUS, SYSTEM AND CIRCUIT GROUNDING SYSTEMS, INCLUDING ELECTRODES, CONDUCTORS, CONNECTORS AND ACCESSORIES AS INDICATED, TO CONFORM TO REQUIREMENTS OF DEPARTMENTAL REPRESENTATIVE AND LOCAL AUTHORITY HAVING JURISDICTION OVER INSTALLATION.</div> <div>5. MAKE GROUNDING CONNECTIONS IN RADIAL CONFIGURATION ONLY, WITH ALL CONNECTIONS TERMINATING AT SINGLE GROUNDING POINT. AVOID LOOP CONNECTIONS. ENSURE UNIFORMITY OF GROUNDING PRACTICES THROUGHOUT INSTALLATION. INSTALL SYSTEM AND CIRCUIT GROUNDING CONNECTIONS TO THE NEUTRALS OF THE SECONDARY SYSTEMS.</div> <div>6. FOR STANDARD DUPLEX RECEPTACLES PROVIDE INSULATED GROUND CONDUCTOR. SIZE FOR EQUIPMENT GROUND IN ACCORDANCE WITH ELECTRICAL CODE. MINIMUM CONDUCTOR SIZE #12 WITH GREEN INSULATION. GROUND CONDUCTOR TO BE CONNECTED UNDER A BONDING SCREW TO OUTLET BOX(ES) AND PANELBOARD.</div> <div>7. FOR ISOLATED GROUND DUPLEX RECEPTACLES PROVIDE EQUIPMENT GROUNDING CONDUCTOR AS FOR STANDARD RECEPTACLES, AND SEPARATE INSULATED GROUND CONDUCTOR. SIZE TO MATCH LINE CONDUCTORS WITH GREEN INSULATION AND YELLOW STRIP. ISOLATED GROUND CONDUCTOR TO BE CONNECTED TO ISOLATED GROUND TERMINAL STRIP PROVIDED IN PANEL.</div> <div>8. IN PANELBOARD, ISOLATED GROUND BUS AND EQUIPMENT GROUND BUS TO BE TIED TOGETHER WITH #1/0 INSULATED CONDUCTOR.</div> <div>9. INSTALL SEPARATE 'GREEN' GROUND CONDUCTOR IN SAME CONDUIT WITH CIRCUIT (POWER WIRING) CONDUCTORS. BOND SECURELY TO GROUND SCREW IN EACH OUTLET, JUNCTION, PULL BOX AND EQUIPMENT ENCLOSURE. GROUND CONDUCTOR EQUAL IN AMPACITY TO SIZE OF CIRCUIT AMPACITY OR IN ACCORDANCE WITH CODE FOR EQUIPMENT GROUNDING.</div> <div>5.0 DISCONNECT SWITCHES</div> <div>1. ENCLOSED MANUAL DISCONNECT SWITCHES IN NON-HAZARDOUS LOCATIONS - TO CSA C22.2 NO. 4-16 WITH THE FOLLOWING FEATURES:<div>1.1. FUSE HOLDER ASSEMBLIES TO CSA C22.2 NO. 39-13 (R2017).</div><div>1.2. FUSIBLE AND NON-FUSIBLE DISCONNECT SWITCHES IN CSA ENCLOSURE AS INDICATED.</div><div>1.3. PROVISION FOR PADLOCKING IN 'OFF' SWITCH POSITION BY ONE LOCK.</div><div>1.4. MECHANICALLY INTERLOCKED DOOR TO PREVENT OPENING WHEN HANDLE IN 'ON' POSITION.</div><div>1.5. QUICK-MAKE, QUICK-BREAK ACTION.</div><div>1.6. ON-OFF SWITCH POSITION INDICATION ON SWITCH ENCLOSURE COVER.</div><div>1.7. INSTALL DISCONNECT SWITCHES COMPLETE WITH FUSES AS INDICATED.</div></div> <div>6.0 WIRING DEVICES</div> <div>1. MANUALLY OPERATED GENERAL PURPOSE AC SWITCHES TO CSA C22.2 NO. 111.</div> <div>2. RECEPTACLES, PLUGS AND SIMILAR DEVICES TO CSA C22.2 NO. 42-10 (R2015).</div> <div>3. COVERPLATES TO CSA C22.2 NO. 42.1-13 (R2013).</div> <div>4. RECEPTACLES:<div>4.1. DUPLEX RECEPTACLES, CSA TYPE 5-15R, 125V, 15A, U GROUND, SPECIFICATION GRADE.</div><div>4.2. GROUND FAULT CIRCUIT INTERRUPTER TYPE WITH TEST/ RESET BUTTONS AND GREEN LED TO INDICATE POWER ON AND CONFIRMS PROPER WIRING.</div></div> <div>5. COVERPLATES:<div>5.1. PROVIDE STAINLESS STEEL COVERPLATES FOR ALL WIRING DEVICES.</div></div> |  |  | <div>7.0 FUSES</div> <div>1. PLUG AND CARTRIDGE FUSES: TO CSA C22.2 NO. 59.1-M1987 (R1997), WITH THE FOLLOWING FEATURES;<div>1.1. HRC CLASS 'J' FUSES: TO CSA C22.2 NO. 106-05(R2014) TO HAVE INTERRUPTING CAPACITY OF 200,000A SYMMETRICAL.</div></div> <div>8.0 PANELBOARDS</div> <div>1. PANELBOARDS: TO CSA C22.2 NO. 29-15 WITH THE FOLLOWING FEATURES:<div>250V PANELBOARDS: BUS AND BREAKERS RATED FOR SYMMETRICAL INTERRUPTING CAPACITY OF 10,000A. SERVICE ENTRANCE TYPE AS REQUIRED.</div></div> <div>MAINS, NUMBER OF CIRCUITS, AND NUMBER AND SIZE OF BRANCH CIRCUIT BREAKERS AS INDICATED.</div> <div>TIN-PLATED COPPER BUS WITH FULL SIZE NEUTRAL.</div> <div>EQUIPMENT GROUND BUS TO MATCH NEUTRAL BUS. BOLTED DIRECTLY TO PANELBOARD ENCLOSURE.</div> <div>MAINS SUITABLE FOR BOLT-ON BREAKERS.</div> <div>FINISH: TRIM AND DOOR - BAKED GREY ENAMEL.</div> <div>MOUNT PANELBOARDS AS INDICATED.</div> <div>CONNECT LOADS TO CIRCUITS AS INDICATED.</div> <div>CONNECT NEUTRAL CONDUCTORS TO COMMON NEUTRAL BUS WITH RESPECTIVE CIRCUIT(S) IDENTIFIED.</div> <div>SPRINKLER-PROOF ENCLOSURE.</div> |  |  |
|---|--|--|--|--|--|--|--|--|

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A

B

C

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Prince Edward Point National Wildlife Area  
VISITOR’S EXPERIENCE IMPROVEMENTS  
South Marysburgh Twp, Ontario

drawing title  
titre du dessin

GENERAL  
INSTRUCTIONS,  
NOTES  
AND LEGEND

drawn by  
dessine par

J.FREEDMAN

designed by  
conc par

J.FREEDMAN

approved by  
approuve par

C.MCGUIRE

bid  
offre

PSPC PROJECT  
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project manager  
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project date  
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drawing no.  
dessine no.

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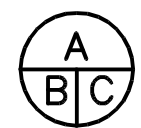
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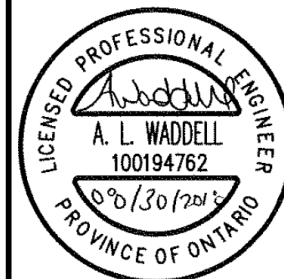
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drawing title  
titre du dessin

## SINGLE LINE DIAGRAM



drawn by  
dessiné par

J.FREEDMAN

designed by  
conc par

J.FREEDMAN

approved by  
approuvé par

C.MCGUIRE

bid  
offre

PSPC PROJECT  
MANAGER

project manager  
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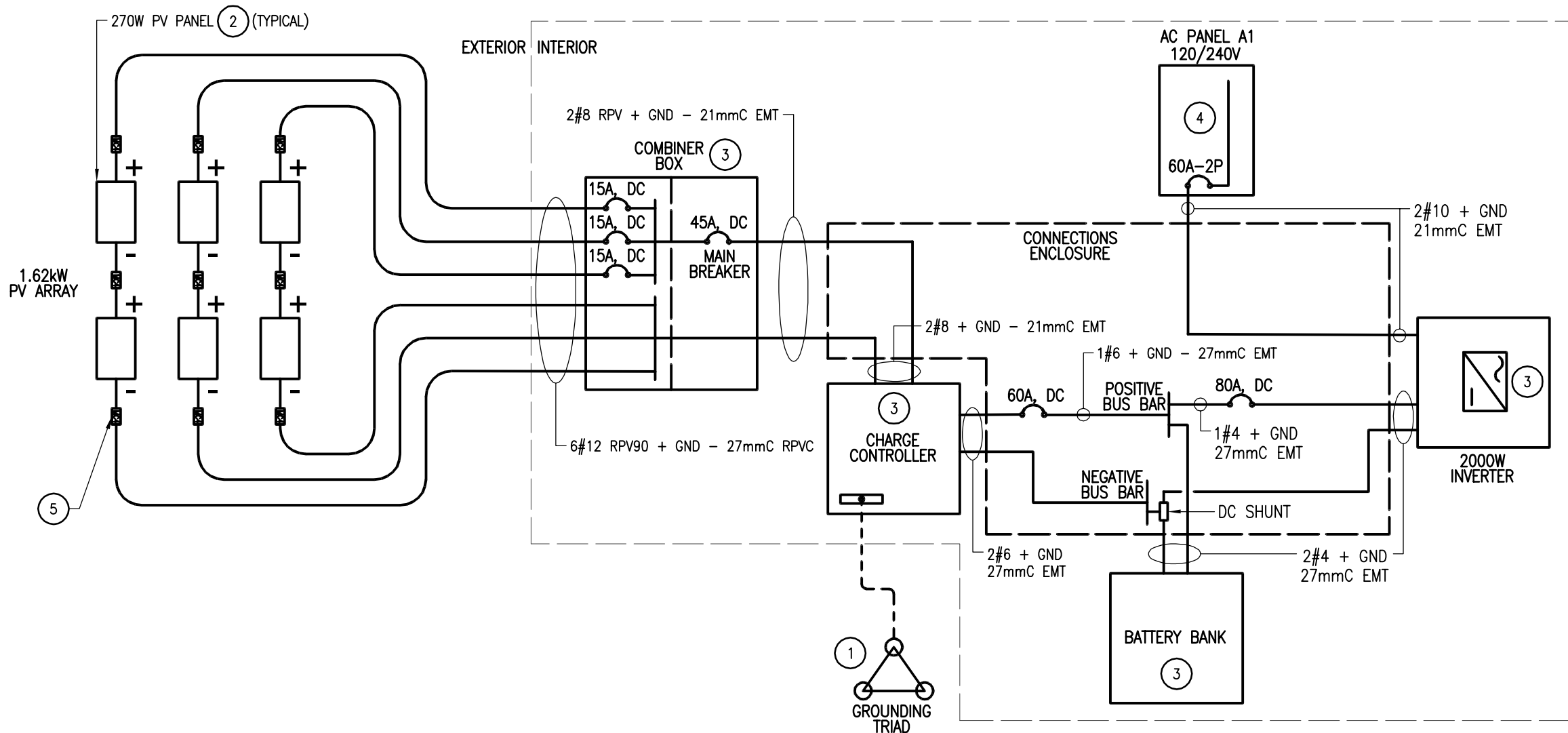
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drawing no.  
dessiné no.

E101

### GENERAL NOTES:

- THE CONTRACTOR SHALL PROVIDE ALL ASSOCIATED CONDUIT, WIRING, JBS, FASTENERS AND FITTINGS AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM TO CSA C22.1-2018.
- THE CONTRACTOR SHALL PROVIDE SEISMIC RESTRAINT FOR ALL ELECTRICAL EQUIPMENT AS REQUIRED BY THE ONTARIO BUILDING CODE 2012, AND NBC 2015.
- THE CONTRACTOR SHALL PROVIDE EQUIPMENT GROUND CONDUCTORS THROUGHOUT.
- THE CONTRACTOR SHALL PROVIDE AN ESA INSPECTION CERTIFICATE PRIOR TO DEPARTMENTAL REPRESENTATIVES FINAL SITE REVIEW.
- CONTRACTOR TO PROVIDE EQUIPMENT LISTED OR APPROVED EQUIVALENT.
- PV ARRAY TO BE ORIENTED TRUE SOUTH AND ANGLED AT 45°.
- THE CONTRACTOR SHALL READ THE SOLAR EQUIPMENT MANUFACTURER SAFETY INSTRUCTIONS PRIOR TO INSTALLING ANY EQUIPMENT. STRICTLY ADHERE TO THESE INSTRUCTIONS.



## 1 SINGLE LINE DIAGRAM

E101 N.T.S.

NEW

## PANEL A1 (4)

|             |  |       |        |         |             |          |                      |    |    |         |          |             |         |        |       |             |  |
|-------------|--|-------|--------|---------|-------------|----------|----------------------|----|----|---------|----------|-------------|---------|--------|-------|-------------|--|
| ROOM :      |  | -     |        | LEVEL : |             | -        |                      | -  |    | -       |          | BARS :      |         |        |       | 60 AMPS     |  |
| DESCRIPTION |  | MISC. | MOTORS | HEATING | RECEPTACLES | LIGHTING | 120/240V, 60A, 1ø-3W |    |    |         | LIGHTING | RECEPTACLES | HEATING | MOTORS | MISC. | DESCRIPTION |  |
|             |  |       |        |         |             |          | BREAKER              |    |    | BREAKER |          |             |         |        |       |             |  |
| RECEPTACLES |  |       |        |         |             |          | 15A                  | 1  | 2  | 15A     |          |             |         |        |       | LIGHTING    |  |
| EXHAUST FAN |  |       |        |         |             |          | 15A                  | 3  | 4  | 15A     |          |             |         |        |       | UV LIGHTING |  |
| RECEPTACLES |  |       |        |         |             |          | 15A                  | 5  | 6  |         |          |             |         |        |       |             |  |
|             |  |       |        |         |             |          |                      | 7  | 8  |         |          |             |         |        |       |             |  |
|             |  |       |        |         |             |          |                      | 9  | 10 |         |          |             |         |        |       |             |  |
|             |  |       |        |         |             |          |                      | 11 | 12 |         |          |             |         |        |       |             |  |
| TOTAL       |  | -     | -      | -       | -           | -        | NEUTRAL              |    |    |         | -        | -           | -       | -      | -     | TOTAL       |  |

TOTAL CONNECTED LOAD : kW

INSULATED GROUNDING BUS ☐ YES ☒ NO

BREAKER RUPTURING CAPACITY :

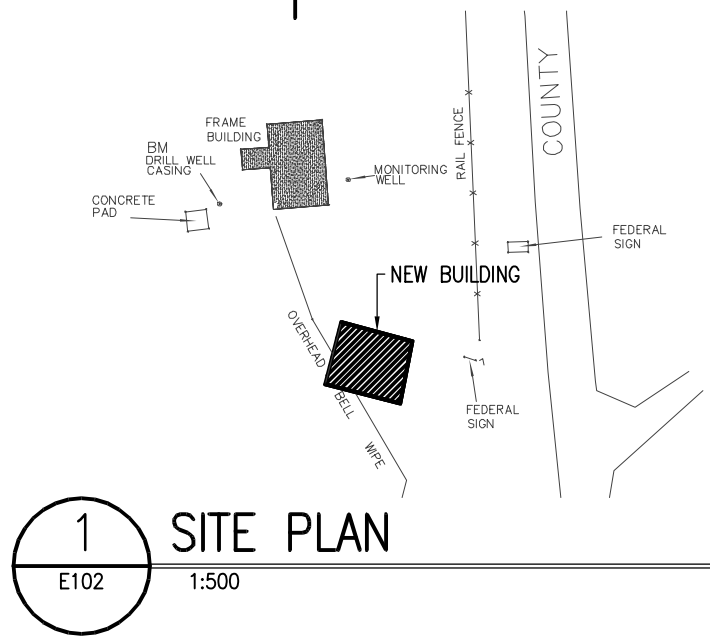
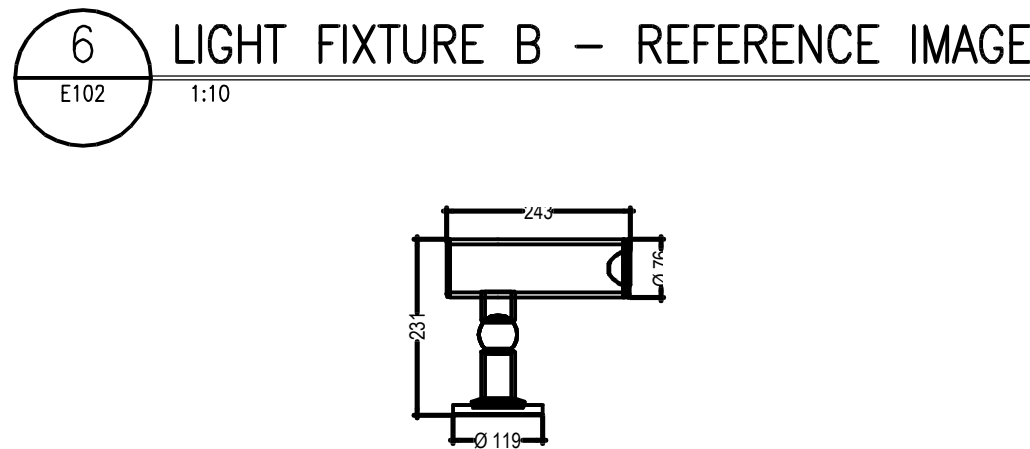
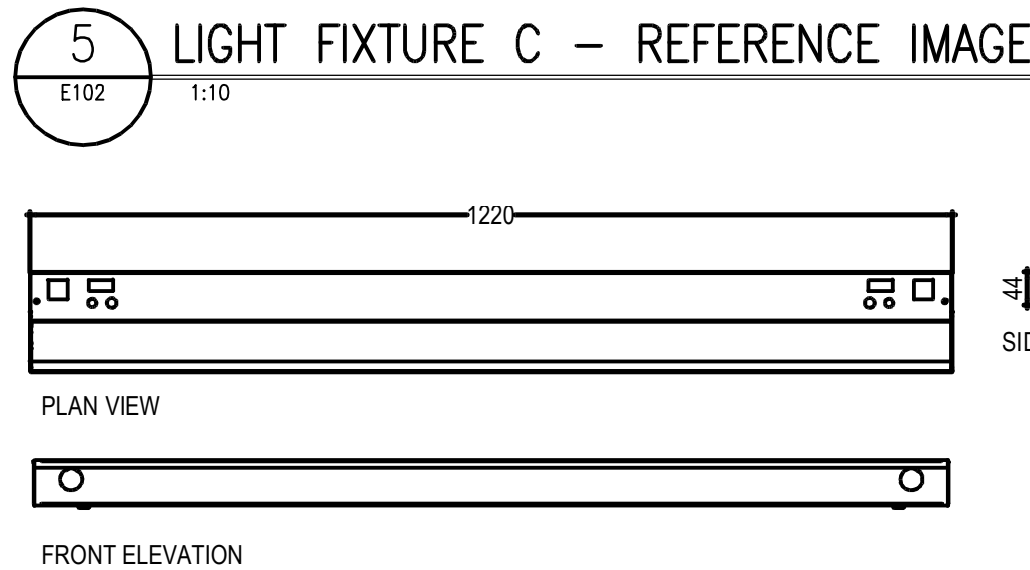
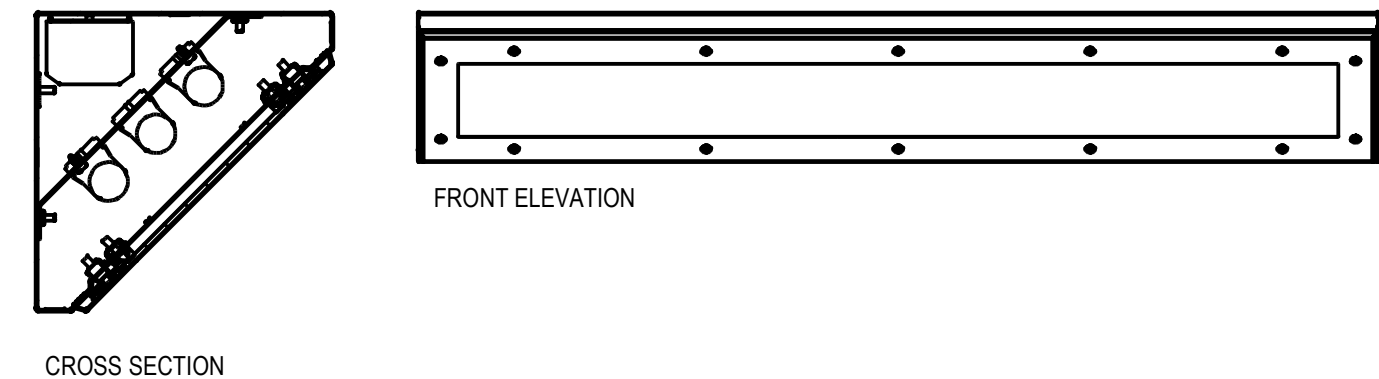
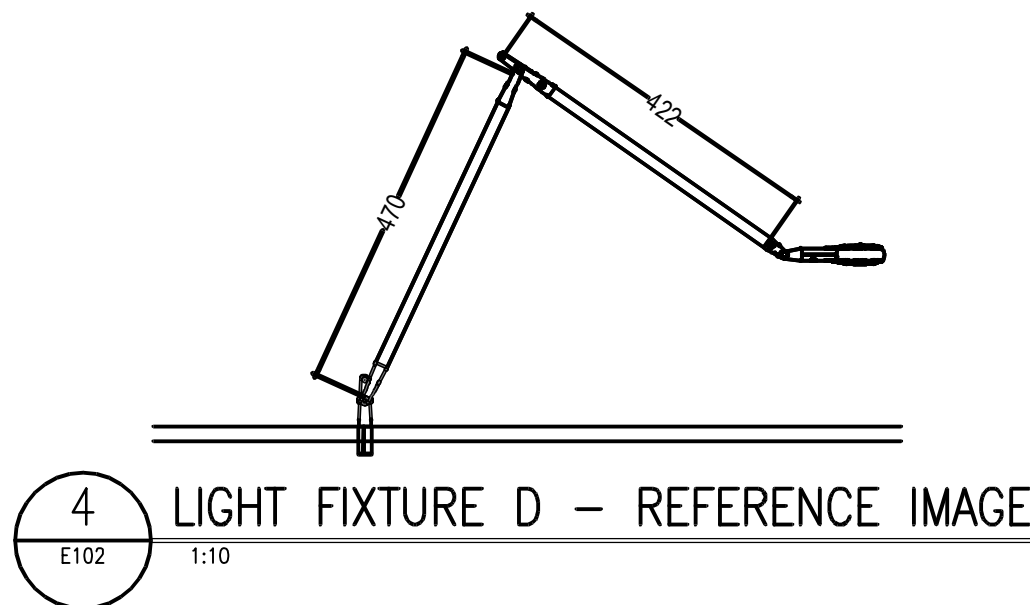
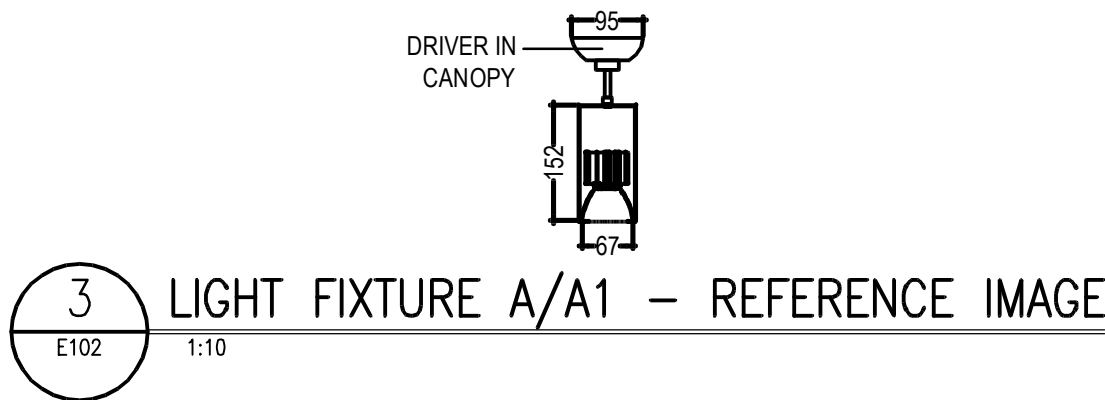
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## 2 PANEL SCHEDULE

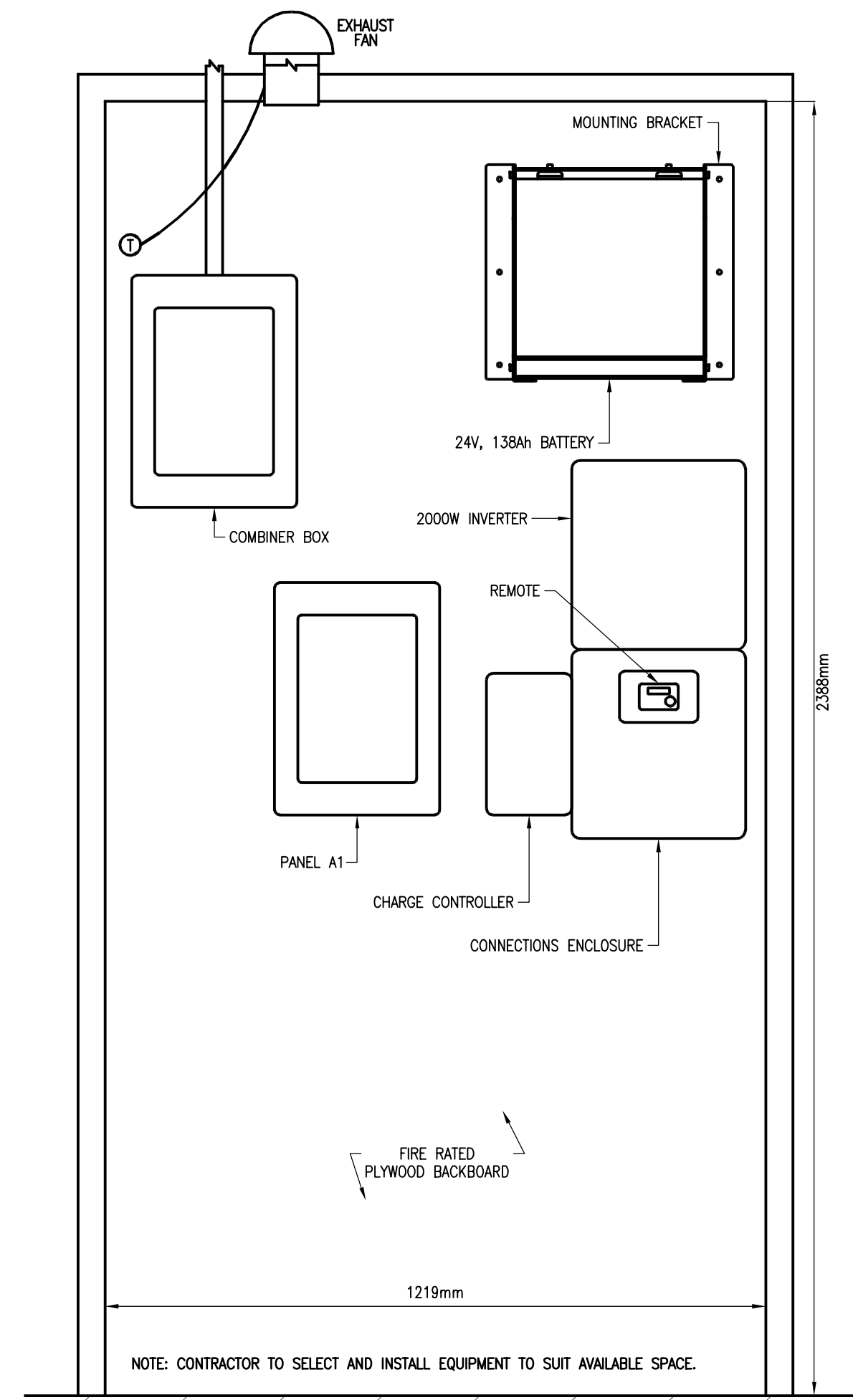
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### DRAWING NOTES:

- CONTRACTOR TO PROVIDE AND INSTALL GROUNDING TRIAD COMPLETE WITH GROUNDING ELECTRODES. SYSTEM TO BE GROUNDED AS PER MANUFACTURERS SPECIFICATIONS.
  - PROVIDE SOLAR ARRAY AND RACKING SYSTEM C/W ALL ASSOCIATED HARDWARE, FASTENERS, AND FITTINGS AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
  - PROVIDE RESIDENTIAL SOLAR PV SYSTEM/POWER EQUIPMENT COMPONENTS C/W COMBINER BOX, CHARGE CONTROLLER, BATTERY BANK, INVERTER, AND ALL ASSOCIATED CONDUIT AND WIRING IN-BETWEEN EACH COMPONENT AS REQUIRED BY THE SOLAR EQUIPMENT MANUFACTURER INSTRUCTIONS. SYSTEM COMPONENTS TO HAVE CHARACTERISTICS AS FOLLOWS:  
ALL PV SYSTEM EQUIPMENT TO BE CSA/ULC APPROVED.
    - PV PANEL:
      - MAXIMUM SYSTEM VOLTAGE: 1000 VDC
      - MAX. SERIES FUSE RATING: 15 A
      - 40°C TO +85°C
      - STC RATINGS:
        - NOMINAL MAX. POWER: 270 W
        - OPT. OPERATING VOLTAGE: 30.8 V
        - OPT. OPERATING CURRENT: 8.75 A
        - OPEN CIRCUIT VOLTAGE: 37.9 V
        - SHORT CIRCUIT CURRENT: 9.32 A
      - UL4703/IEC61730, CLASS A
    - INVERTER:
      - INPUT BATTERY VOLTAGE RANGE: 18-33.6 VDC
      - 120VAC ± 5%
      - 60 Hz ± 0.1 Hz
      - TOTAL HARMONIC DISTORTION < 5%
      - 1 msec SURGE CURRENT: 75 A
      - 100 msec SURGE CURRENT: 37 A
      - 5 sec SURGE POWER (REAL WATTS): 2850 W
      - 30 sec SURGE POWER (REAL WATTS): 2750 W
      - 5 min SURGE POWER (REAL WATTS): 2700 W
      - 30 min SURGE POWER (REAL WATTS): 2200 W
      - MAXIMUM CONTINUOUS INPUT CURRENT: 133 ADC
      - INVERTER EFFICIENCY (PEAK): > 86%
      - AC RELAY TRANSFER TIME (MINIMUM): 16 msec
      - POWER CONSUMPTION - SEARCHING: < 8 W
      - POWER CONSUMPTION - INVERTING (NO LOAD): 25 W
      - OUTPUT WAVEFORM: PURE SINE WAVE
      - ETL LISTED TO UL/cUL 1741, CSA C22.2 No.107.1-16
      - TEMPERATURE (OPERATING/NON-OPERATING): -20°C TO +60°C TO -40°C TO +70°C
      - OPERATING HUMIDITY: 0 TO 95% RH NON-CONDENSING
    - REMOTE:
      - COMPATIBLE WITH INVERTER AND CHARGE CONTROLLER.
      - CAPABLE OF PROGRAMMING SYSTEM TO SUIT SPECIFICATIONS.
  - CHARGE CONTROLLER:
    - MAXIMUM PV INPUT VOLTAGE: 200 VDC + BATTERY VOLTAGE OR 240 VDC - WHICHEVER IS LOWER.
    - MAXIMUM PV OPERATING VOLTAGE: 187 VDC
    - MAXIMUM PV ARRAY SHORT CIRCUIT CURRENT: 100 ADC
    - NOMINAL BATTERY VOLTAGE : 24 VDC
    - BATTERY CHARGER OUTPUT VOLTAGE RANGE: 10 TO 66 VDC
    - CONTINUOUS CHARGER OUTPUT CURRENT: LESS THAN BATTERY MAXIMUM CONTINUOUS CHARGE RATE (CAN BE PROGRAMMABLE)
    - MAXIMUM OUTPUT POWER: 6600 W
    - EFFICIENCY: 99%
    - TARE LOSS / NIGHTTIME POWER CONSUMPTION: < 4 W
    - CHARGER REGULATION METHOD: AUTOMATIC THREE-STAGE (BULK, ABSORPTION, FLOAT) CHARGE WITH MANUAL EQUALIZATION - PROGRAMMED TO SUIT BATTERY'S MANUFACTURER RECOMMENDED SETTINGS
    - WITH BATTERY TEMPERATURE SENSOR
    - ETL LISTED TO UL/cUL 1741, CSA C22.2 No. 107.1-16, CE
    - TEMPERATURE (OPERATING/NON-OPERATING): -20°C TO +60°C TO -40°C TO +70°C
    - OPERATING HUMIDITY: 0 TO 95% RH NON-CONDENSING
    - GROUND FAULT PROTECTION
  - BATTERY (BATTERY BANK CONSISTS OF TWO BATTERIES):
    - TYPE: LITHIUM FERRO PHOSPHATE (LFP)
    - NOMINAL DC VOLTAGE: 25.6 V
    - AMP HOURS: 138 Ah
    - RATED kWh CAPACITY @ C/2: 3.5 kWh
    - MAX. DISCHARGE CURRENT: 60 A (10 MIN)
    - MAX. CONTINUOUS DISCHARGE CURRENT: 45 A
    - MAX. CONTINUOUS CHARGE CURRENT: 45 A
    - DC VOLTAGE RANGE: 20 TO 28.8 V
    - DEPTH OF DISCHARGE: UP TO 100%
    - OPERATING EFFICIENCY: 98%
    - SELF-DISCHARGE RATE: < 1% PER MONTH
    - CHARGE TEMPERATURE (FOR 10,000 CYCLES): 0°C TO 43°C
- PROVIDE NEW 60A RATED 120/240V PANEL C/W 60A MAIN BREAKER AND BRANCH CIRCUIT BREAKERS AS INDICATED.
  - USE CRIMPED PIN CONTACT TERMINALS/SOCKET CONTACT CONNECTORS FOR SOLAR PV ARRAY TERMINALS. REFER TO MANUFACTURERS RECOMMENDATIONS. PROVIDE ALL WIRING AND CONNECTORS AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.



- GENERAL NOTES:
1. THE CONTRACTOR SHALL PROVIDE ALL ASSOCIATED CONDUIT, WIRING, JBS, FASTENERS AND FITTINGS AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM TO CSA C22.1-2018.
  2. THE CONTRACTOR SHALL PROVIDE SEISMIC RESTRAINT FOR ALL ELECTRICAL EQUIPMENT AS REQUIRED BY THE ONTARIO BUILDING CODE 2012, AND NBC 2015.
  3. THE CONTRACTOR SHALL PROVIDE EQUIPMENT GROUND CONDUCTORS THROUGHOUT.
  4. THE CONTRACTOR SHALL PROVIDE AN ESA INSPECTION CERTIFICATE PRIOR TO DEPARTMENTAL REPRESENTATIVES FINAL SITE REVIEW.
  5. CONTRACTOR TO PROVIDE EQUIPMENT LISTED OR APPROVED EQUIVALENT.
  6. PV ARRAY TO BE ORIENTED TRUE SOUTH AND ANGLED AT 45°.
  7. THE CONTRACTOR SHALL READ THE SOLAR EQUIPMENT MANUFACTURER SAFETY INSTRUCTIONS PRIOR TO INSTALLING ANY EQUIPMENT. STRICTLY ADHERE TO THESE INSTRUCTIONS.



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mechanical | electrical | building automation | telecommunications | structure

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| 03       | ISSUED FOR TENDER | 24 AUG 2018 |
| 02       | 99% SUBMISSION    | 3 AUG 2018  |
| 01       | 66% SUBMISSION    | 6 JULY 2018 |
| revision |                   | date        |

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|   |   |
|---|---|
| A | Detail No.  |
| B | No. du détail   |
| C | drawing no. – where detail required<br>dessin no. – où détail exigé |
|   | drawing no. – where detailed<br>dessin no. – où détaillé            |

project title  
titre du projet

ENVIRONMENT AND CLIMATE CHANGE CANADA  
Prince Edward Point National Wildlife Area  
VISITOR'S EXPERIENCE IMPROVEMENTS  
South Marysburgh Twp, Ontario

drawing title  
titre du dessin

ELECTRICAL  
DISTRIBUTION  
AND LIGHTING



drawn by  
dessiné par

J.FREEDMAN

designed by  
conc par

J.FREEDMAN

approved by  
approuvé par

C.MCGUIRE

bid  
offre

PSPC PROJECT  
MANAGER

project manager  
administrateur  
de projets

project date  
date du projet

2018-08-24

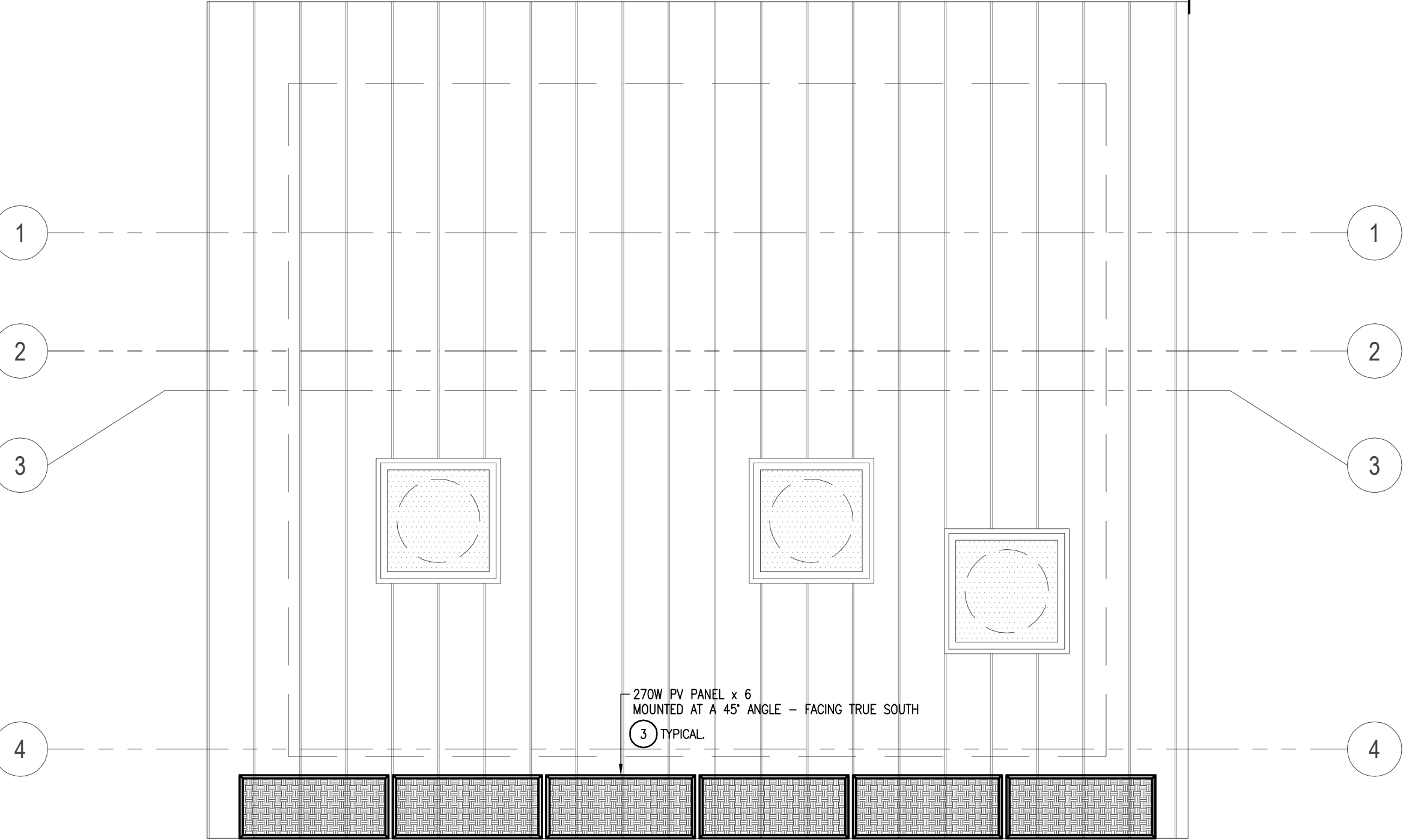
project no.  
no. du projet

R.080100.002

drawing no.  
dessiné no.

E102





GENERAL NOTES:

1. THE CONTRACTOR SHALL PROVIDE ALL ASSOCIATED CONDUIT, WIRING, JBS, FASTENERS AND FITTINGS AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM TO CSA C22.1-2018.
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3. THE CONTRACTOR SHALL PROVIDE EQUIPMENT GROUND CONDUCTORS THROUGHOUT.
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6. PV ARRAY TO BE ORIENTED TRUE SOUTH AND ANGLED AT 45°.
7. THE CONTRACTOR SHALL READ THE SOLAR EQUIPMENT MANUFACTURER SAFETY INSTRUCTIONS PRIOR TO INSTALLING ANY EQUIPMENT. STRICTLY ADHERE TO THESE INSTRUCTIONS.

DRAWING NOTES:

- 1 PROVIDE AND INSTALL FIXTURES C/W LOCAL SWITCHING AS INDICATED. ALL INTERIOR WIRING TO BE RUN IN CONCEALED RACEWAYS FORMED INTO THE CLT PANELS. NO EXPOSED CONDUIT.
- 2 PROVIDE AND INSTALL 120 VOLT RECEPTACLES AS INDICATED. ALL INTERIOR WIRING TO BE RUN IN CONCEALED RACEWAYS FORMED INTO THE CLT PANELS. NO EXPOSED CONDUIT.
- 3 PROVIDE AND INSTALL MECHANICAL PROTECTION FOR PV PANEL POWER CABLES IN ACCORDANCE WITH OESC (5)64-210. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR RACKING/MOUNTING DETAILS.
- 4 PROVIDE AND INSTALL THROUGH-TABLE MOUNTED TASK LIGHT. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS.



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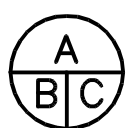


mechanical | electrical | building automation | telecommunications | structure

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South Marysburgh Twp, Ontario

drawing title  
titre du dessin

ELECTRICAL  
DISTRIBUTION  
AND LIGHTING



drawn by  
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J.FREEDMAN

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MANAGER

project manager  
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de projets

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date du projet

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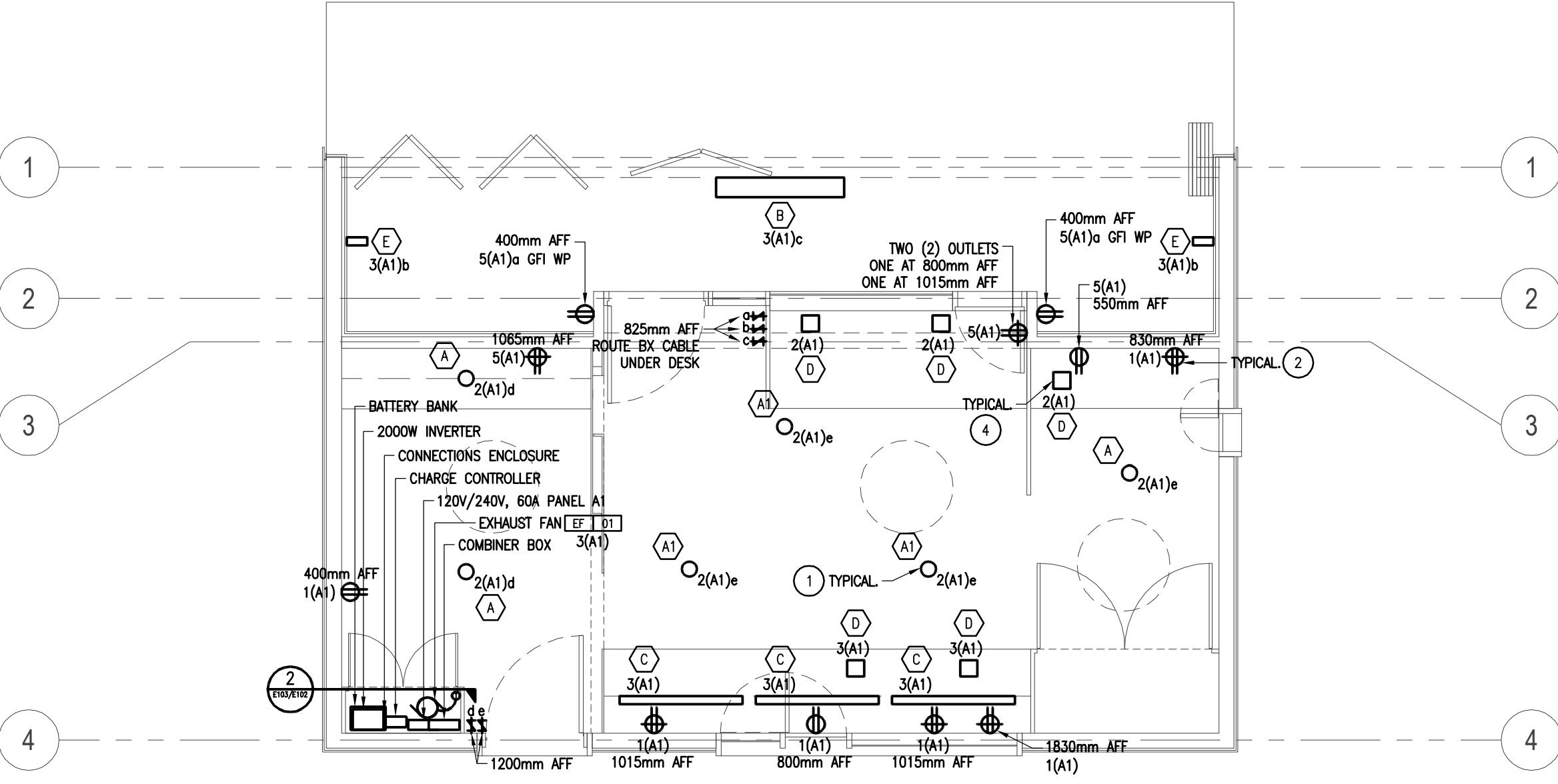
project no.  
no. du projet

R.080100.002

drawing no.  
dessiné no.

E103

| FIXTURE SCHEDULE (SEE DETAILS 3-7/E102) |   |
|---|---|
| A                                       | 120V, 10W LED LAMP, 3500K, 0-10V DIMMING<br>CORD MOUNT, 50 DEGREE BEAM ANGLE, SMOOTH SEMI-SPECULAR FINISH<br>METALLIC SILVER HOUSING, 900 mm CORD, SITE ADJUSTABLE<br>LISTED TO UL 1598 AND CANADIAN STANDARDS FOR DAMP LOCATION  |
| A1                                      | 120V, 20W LED LAMP, 3500K, 0-10V DIMMING<br>CORD MOUNT, 50 DEGREE BEAM ANGLE, SMOOTH SEMI-SPECULAR FINISH<br>METALLIC SILVER HOUSING, 900 mm CORD, SITE ADJUSTABLE<br>LISTED TO UL 1598 AND CANADIAN STANDARDS FOR DAMP LOCATION  |
| B                                       | TIG WELDED 18GA COLD ROLLED STEEL HOUSING, IP65 RATED<br>3mm TEMPERED SAFETY GLASS LENS SEALED TO THE FRAME<br>FULL SPECULAR REFLECTOR, DOOR FRAME WITH INTEGRAL SILICONE<br>O-RINGS AND CLOSED CELL SILICONE GASKETING<br>2 TB 32W UV LAMPS, 120V, PROGRESSIVE START   |
| C                                       | EXTRUDED, WHITE OPAL, RIBBED, LINEAR PRISMATIC ACRYLIC DIFFUSER<br>DIE FORMED STEEL CONSTRUCTION<br>WHITE POLYESTER POWDER COATED FINISH<br>120V, TB UV LAMP, TOGGLE SWITCH, UL LISTED  |
| D                                       | FIXING PIN MOUNT, 360 DEGREE SWIVEL HEAD<br>120, 8W LED LAMP, PLUG-IN TYPE, UL LISTED<br>ALUMINUM ARM CONSTRUCTION<br>BLACK FINISH  |
| E                                       | SURFACE MOUNT EXTRUDED ALUMINIUM HOUSING WITH INTEGRALLY SEALED<br>LED LIGHT MODULE TEMPERED GLASS LENS WITH FACETED SPECULAR<br>REFLECTOR. 12.2 W LED LAMP, 4000K, 0-10V DIMMING. TITANIUM GRAY<br>HOUSING. PIVOTING ARM WITH 140° PIVOT, 350° BASE ROTATION<br>LISTED TO UL 1598 AND CSA 22.2 #250 FOR WET LOCATION |



2 ELECTRICAL POWER FLOOR PLAN

E103 1:50



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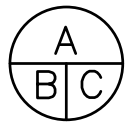


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C drawing no. — where detailed  
dessin no. — où détaillé

project title  
titre du projet

ENVIRONMENT AND CLIMATE CHANGE CANADA

Prince Edward Point National Wildlife Area  
VISITOR'S EXPERIENCE IMPROVEMENTS

South Marysburgh Twp, Ontario

drawing title  
titre du dessin

## SITE PLACEMENT MAP

drawn by  
dessine par NM

designed by  
conc par NM

approved by  
approuve par

bid  
offre PSPC PROJECT  
MANAGER project manager  
administrateur  
de projets

project date  
date du projet 2018-08-24

project no.  
no. du projet R.080100.002

drawing no.  
dessine no. W1

NOTE:  
For reference only, exact  
placements to be decided  
on site.

### NODE 1: LOOK OUT

- B.1.1
- C.1.2
- C.1.1
- A.1.1
- E.1.1

### NODE 2: POINT TRAVERSE

- CO.2.2
- C.2.2
- C.2.1
- D.2.2
- CO.2.1
- D.2.1
- CO.2.3
- B.2.1
- E.2.1

### NODE 3: BEACH

- E.3.1

### NODE 4: BIRD OBSERVATORY

- C.4.1
- CO.4.1
- B.4.1
- D.4.1

### NODE 5: HARBOUR

- C.5.1
- B.5.1
- C.5.2

#### KEY

- Arrival Sign (A)
- Orientation Sign (B)
- Find Me Sign (C)
- Find Me Sign\_Combination (CO)
- Trail Marker Sign (D)
- Directional Sign (E)
- Bench

### SIGN PLACEMENT MAP Not to scale



NOTE:

- For illustration purposes only
- Each panel to have unique graphic
- Final artwork to follow
- Refer to signage support drawings for all quantities, dimensions and fabrication details

SIGNAGE SUPPORT DESIGN

The design of signage is driven by the client's desire for a "simple, clean and durable" approach. Its goal is to create a simple yet elegant design that blends well with the surroundings while engaging the visitor to learn further about the natural wildlife area.

At its core, the design combines two bent metal panels, one providing support, the other information. The support panel is made of a thick bent Corten steel panel while the graphic panel has a lighter, smoother feel being made of a thinner paint coated steel. The simple act of folding a sheet of metal allows for a sturdy yet light feel to the signage. While the play between the two metal panels creates a sense of depth and gives the signage a distinct identity.

The base panel, fixed to the ground on a concrete pad which is then covered by topsoil, is narrower (2/3 the width) than the information panel. This simple design move allows the signs to be light and feel as though they are floating above the ground.

Overall, the design aims to take a traditional wayfinding signage unit and strip it down to its essentials to create a minimal, durable and aesthetically beautiful wayfinding system.



FRONT VIEW OF SIGNAGE FAMILY  
Not to scale



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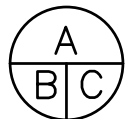


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ENVIRONMENT AND CLIMATE CHANGE CANADA

Prince Edward Point National Wildlife Area  
VISITOR'S EXPERIENCE IMPROVEMENTS

South Marysburgh Twp, Ontario

drawing title  
titre du dessin

FRONT VIEW OF  
SIGNAGE FAMILY

|                         |    |
|-------------------------|----|
| drawn by<br>dessine par | NM |
|-------------------------|----|

|                         |    |
|-------------------------|----|
| designed by<br>conc par | NM |
|-------------------------|----|

|                             |  |
|-----------------------------|--|
| approved by<br>approuve par |  |
|-----------------------------|--|

|              |                         |   |
|--------------|-------------------------|---|
| bid<br>offre | PSPC PROJECT<br>MANAGER | project manager<br>administrateur<br>de projets |
|--------------|-------------------------|---|

|                                |            |
|--------------------------------|------------|
| project date<br>date du projet | 2018-08-24 |
|--------------------------------|------------|

|                              |              |
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| project no.<br>no. du projet | R.080100.002 |
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|                            |    |
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| drawing no.<br>dessine no. | W2 |
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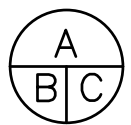


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dessin no. — où détaillé

project title  
titre du projet

ENVIRONMENT AND CLIMATE CHANGE CANADA  
  
Prince Edward Point National Wildlife Area  
VISITOR'S EXPERIENCE IMPROVEMENTS  
  
South Marysburgh Twp, Ontario

drawing title  
titre du dessin

REAR VIEW OF  
SIGNAGE FAMILY

drawn by  
dessiné par

NM

designed by  
conc par

NM

approved by  
approuvé par

bid

offre

PSPC PROJECT  
MANAGER

project manager

administrateur

de projets

project date  
date du projet

2018-08-24

project no.  
no. du projet

R.080100.002

drawing no.  
dessiné no.

W3

NOTE:

- For illustration purposes only
- Each panel to have unique graphic
- Final artwork to follow
- Refer to signage support drawings for all quantities, dimensions and fabrication details

MATERIAL PALETTE



SUPPROT PANEL: CORTEN STEEL

Corten steel's rusted finish integrates the signs with the natural earth tones of the surrounding environment yet its orange colour allows it to be easily identified.



GRAPHIC PANEL: SPRAYED STEEL

The finish is smooth to the touch and durable to all all conditions. It allows for graphics to be elegantly printed direct to its surface. Overlamine film to be applied over graphics for environmental and anti-graffitti protection.



REAR VIEW OF SIGNAGE FAMILY  
Not to scale





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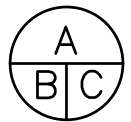
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24 AUG  
2018

revision

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ENVIRONMENT AND CLIMATE CHANGE CANADA

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VISITOR'S EXPERIENCE IMPROVEMENTS

South Marysburgh Twp, Ontario

drawing title  
titre du dessin

ARRIVAL SIGN  
DETAILS (1 UNIT)

drawn by  
dessiné par

NM

designed by  
conc par

NM

approved by  
approuvé par

bid  
offre

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MANAGER

project manager  
administrateur  
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date du projet

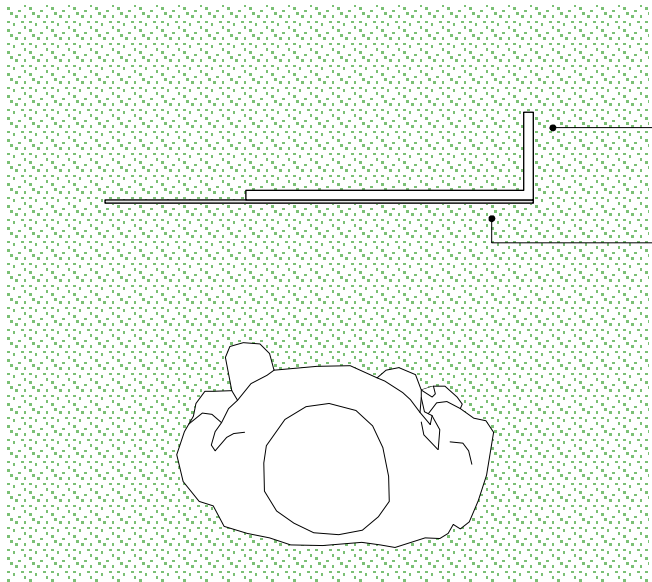
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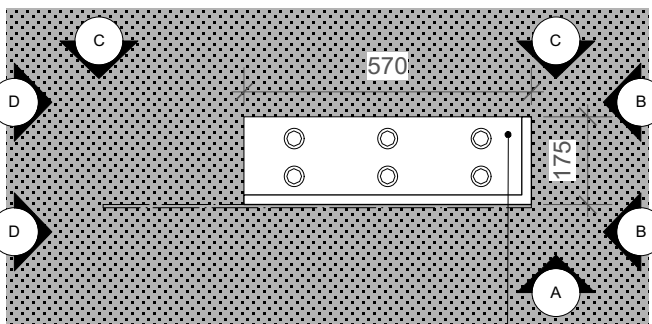
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drawing no.  
dessiné no.

W4



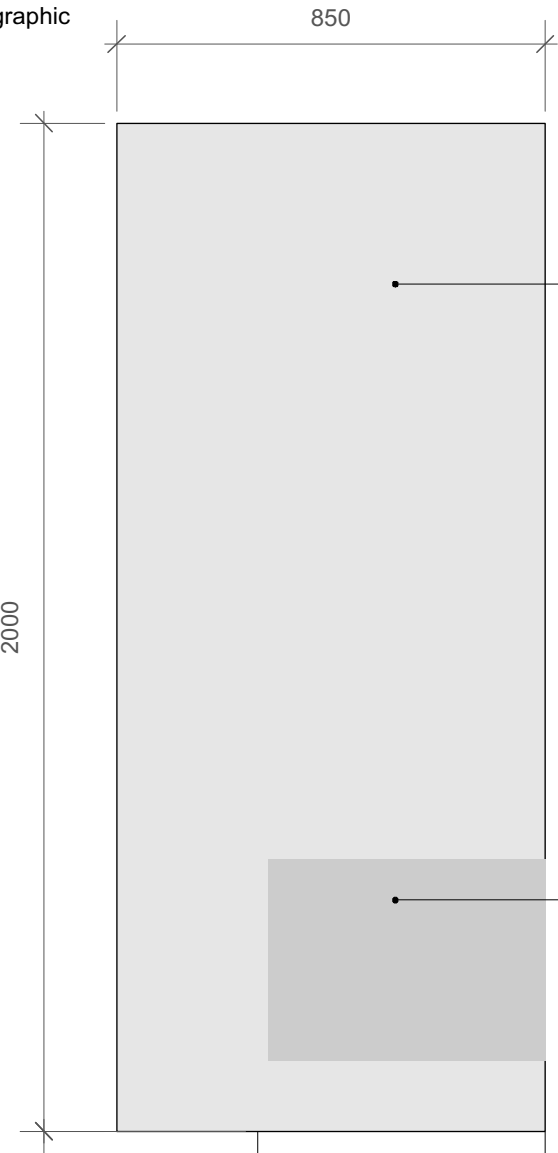
PLAN VIEW : At Grade



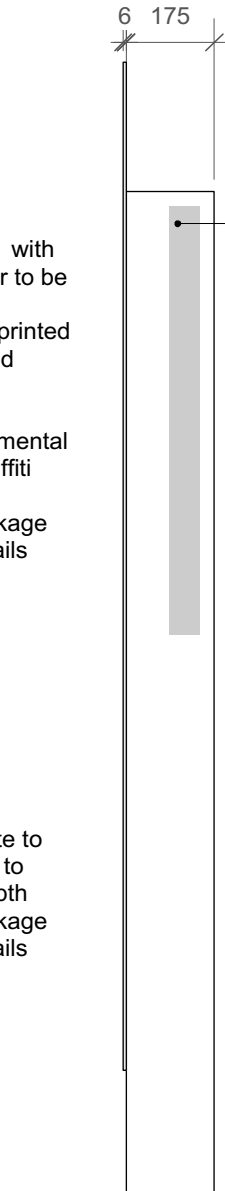
PLAN VIEW E-E: Below Grade

Refer to  
structural  
drawings for  
anchor pattern  
and fixing details

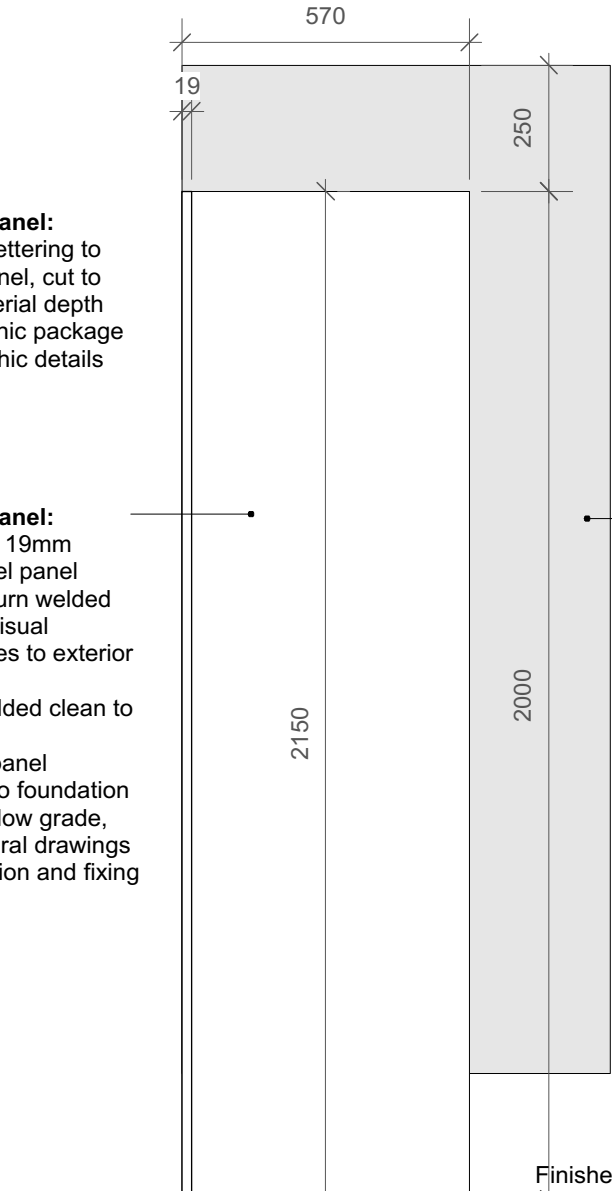
**Ground & Foundation:**  
- Existing ground condition repaired  
where possible  
- 100mm layer of 9.5mm crushed  
aggregate placed over filtered cloth on  
panel base to protect foundation and  
fixings  
- Non-shrink grout placed between  
concrete foundation and steel as per  
structural drawings  
- Concrete foundation set into bedrock  
as per structural drawings



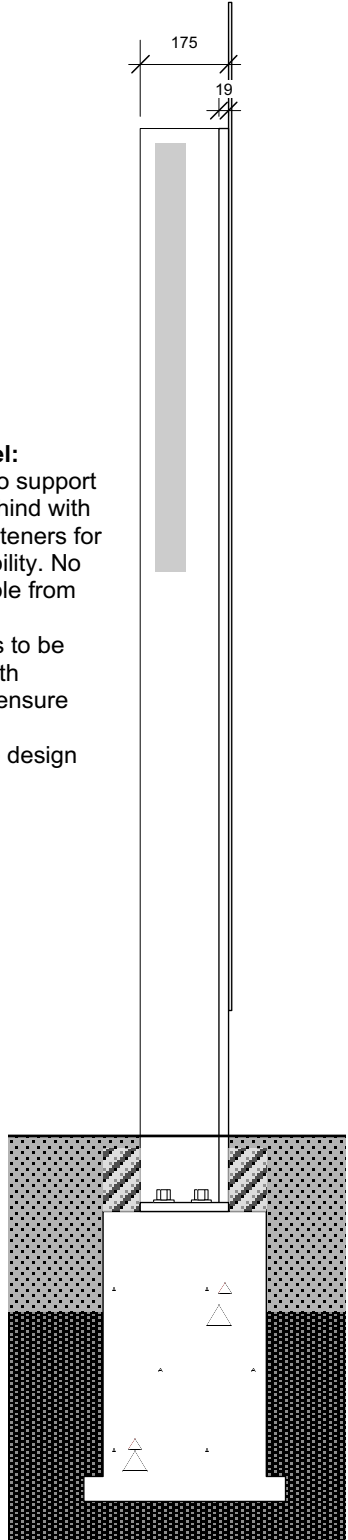
FRONT ELEVATION A-A



SIDE ELEVATION B-B

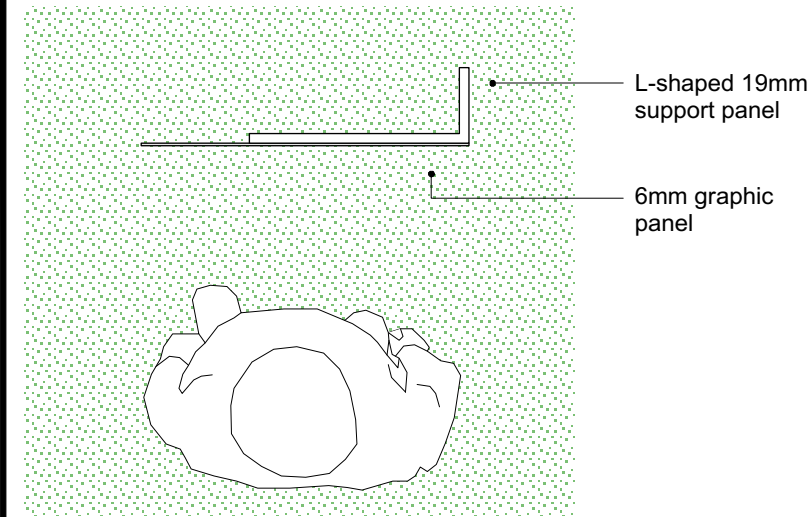


REAR ELEVATION C-C

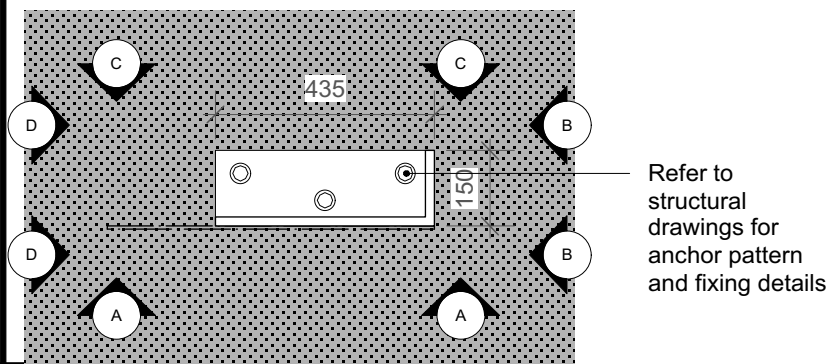


SIDE ELEVATION D-D

ARRIVAL SIGN DETAILS (1 UNIT)  
Scale 1:15



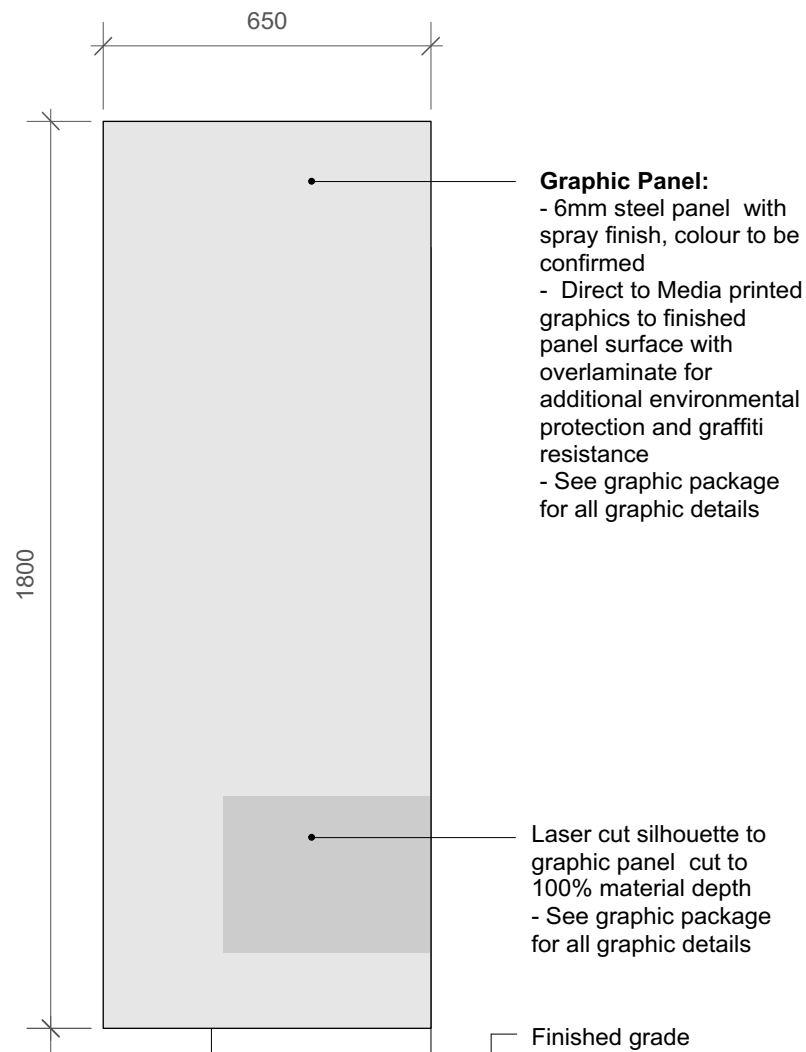
PLAN VIEW : At Grade



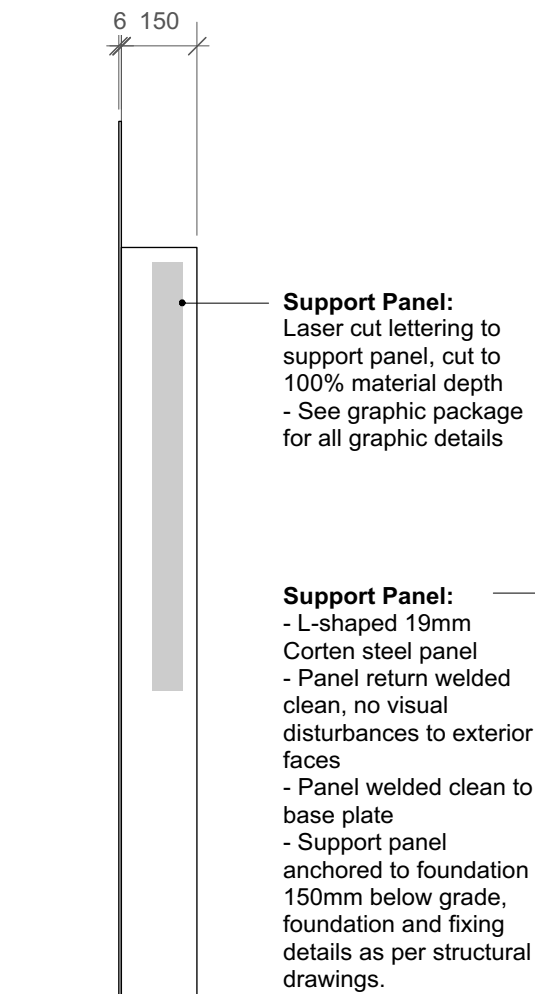
PLAN VIEW E-E: Below Grade

**Ground & Foundation:**

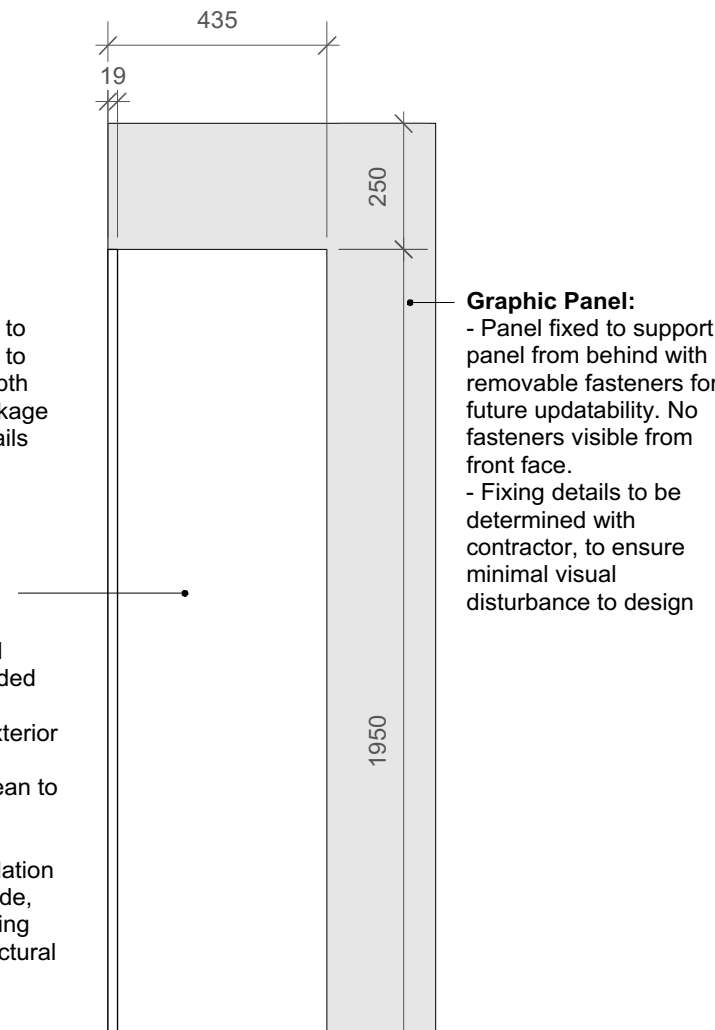
- Existing ground condition repaired where possible
- 100mm layer of 9.5mm crushed aggregate placed over filtered cloth on panel base to protect foundation and fixings
- Non-shrink grout placed between concrete foundation and steel as per structural drawings
- Concrete foundation set into bedrock as per structural drawings



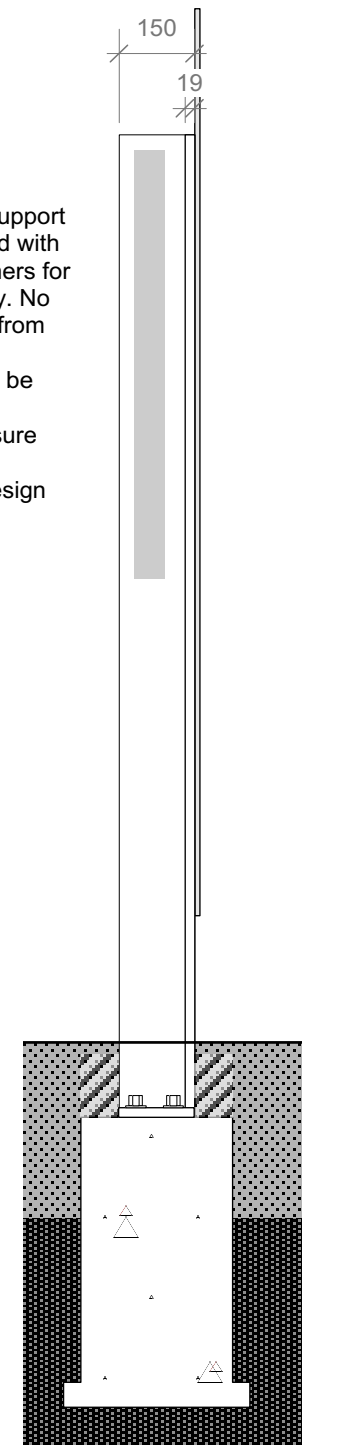
FRONT ELEVATION A-A



SIDE ELEVATION B-B



REAR ELEVATION C-C



SIDE ELEVATION D-D

**ORIENTATION SIGN DETAILS (5 UNITS)**  
Scale 1:15



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**Prince Edward Point National Wildlife Area**  
**VISITOR'S EXPERIENCE IMPROVEMENTS**  
**South Marysburgh Twp, Ontario**

drawing title  
titre du dessin  
**ORIENTATION  
SIGN DETAILS  
(5 UNITS)**

drawn by  
dessiné par  
**NM**

designed by  
conc par  
**NM**

approved by  
approuvé par

bid  
offre  
**PSPC PROJECT  
MANAGER**  
project manager  
administrateur  
de projets

project date  
date du projet  
**2018-08-24**

project no.  
no. du projet  
**R.080100.002**

drawing no.  
dessiné no.  
**W5**





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| revision |  | date |
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Do not scale drawings.  
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|  |   |   |
|--|---|---|
|  | A | Detail No.<br>No. du détail   |
|  | B | drawing no. — where detail required<br>dessin no. — où détail exigé |
|  | C | drawing no. — where detailed<br>dessin no. — où détaillé            |

project title  
titre du projet

ENVIRONMENT AND CLIMATE CHANGE CANADA

Prince Edward Point National Wildlife Area  
VISITOR'S EXPERIENCE IMPROVEMENTS

South Marysburgh Twp, Ontario

drawing title  
titre du dessin

TRAIL MARKER  
SIGN DETAILS  
(5 UNITS)

drawn by  
dessiné par

NM

designed by  
conc par

NM

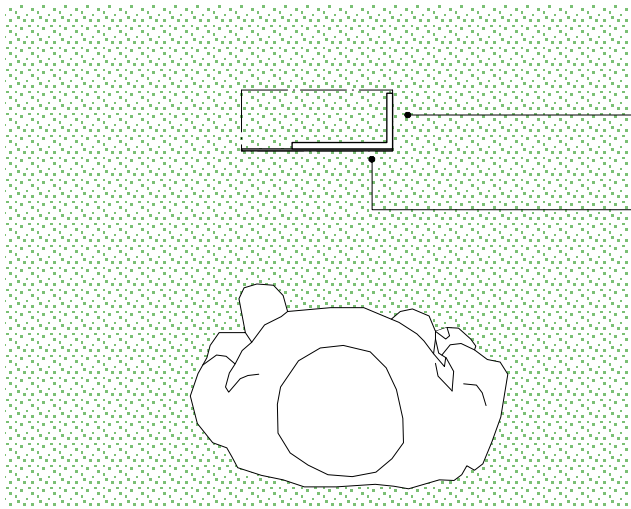
approved by  
approuvé par

|              |                         |   |
|--------------|-------------------------|---|
| bid<br>offre | PSPC PROJECT<br>MANAGER | project manager<br>administrateur<br>de projets |
|--------------|-------------------------|---|

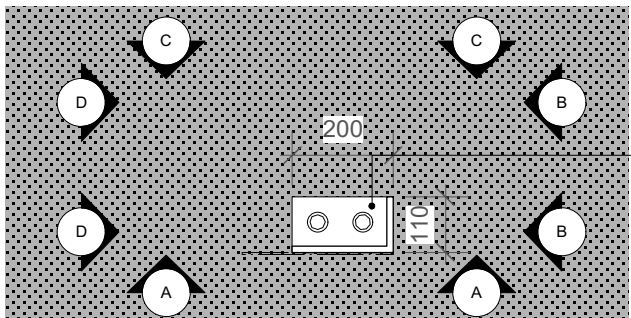
|                                |            |
|--------------------------------|------------|
| project date<br>date du projet | 2018-08-24 |
|--------------------------------|------------|

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| project no.<br>no. du projet | R.080100.002 |
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|                            |    |
|----------------------------|----|
| drawing no.<br>dessiné no. | W6 |
|----------------------------|----|



PLAN VIEW : At Grade



PLAN VIEW E-E: Below Grade

L-shaped 12mm  
support panel

4mm graphic  
panel

**Graphic Panel:**

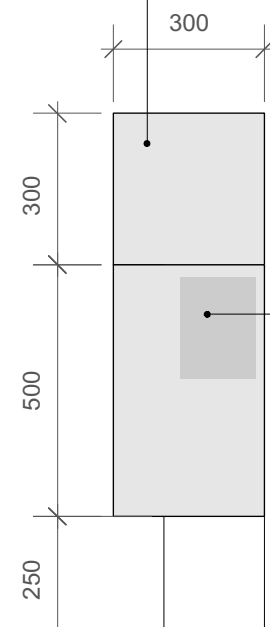
- 4mm steel panel with spray finish, colour to be confirmed
- Upper panel bent back to allow for comfortable reading
- Direct to Media printed graphics to finished panel surface with overlamine for additional environmental protection and graffiti resistance
- disturbance to design
- See graphic package for all graphic details

**Support Panel:**

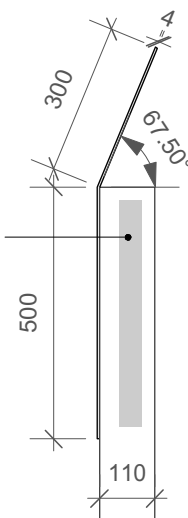
- L-shaped 12mm Corten steel panel
- Panel return welded clean, no visual disturbances to exterior faces
- Panel welded clean to base plate
- Support panel anchored to foundation 150mm below grade, foundation and fixing details as per structural drawings

**Graphic Panel:**

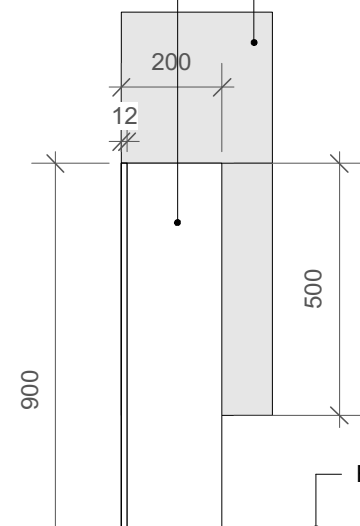
- Panel fixed to support panel from behind with removable fasteners for future updatability. No fasteners visible from front face.
- Fixing details to be determined with contractor, to ensure minimal visual disturbance to design



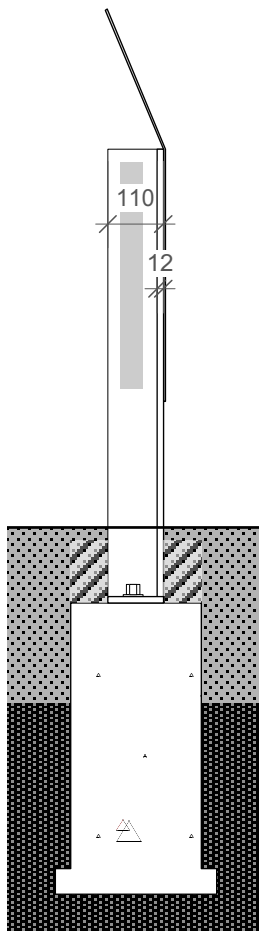
FRONT ELEVATION A-A



SIDE ELEVATION B-B



REAR ELEVATION C-C



SIDE ELEVATION D-D

**Ground & Foundation:**

- Existing ground condition repaired where possible
- 100mm layer of 9.5mm crushed aggregate placed over filtered cloth on panel base to protect foundation and fixings
- Non-shrink grout placed between concrete foundation and steel as per structural drawings
- Concrete foundation set into bedrock as per structural drawings

Laser cut silhouettes /  
text to panels cut to  
100% material depth  
- See graphic package  
for all graphic details

Finished grade

Soil  
(depth varies  
from 200mm to  
900mm)

Bedrock

TRAIL MARKER SIGN DETAILS (5 UNITS)  
Scale 1:15



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

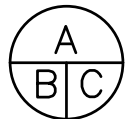


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A Detail No.  
No. du détail  
B drawing no. — where detail required  
dessin no. — où détail exigé  
C drawing no. — where detailed  
dessin no. — où détaillé

project title  
titre du projet

ENVIRONMENT AND CLIMATE CHANGE CANADA  
Prince Edward Point National Wildlife Area  
VISITOR'S EXPERIENCE IMPROVEMENTS

South Marysburgh Twp, Ontario

drawing title  
titre du dessin

FIND ME SIGN DETAILS  
(9UNITS)

drawn by  
dessine par NM

designed by  
conc par NM

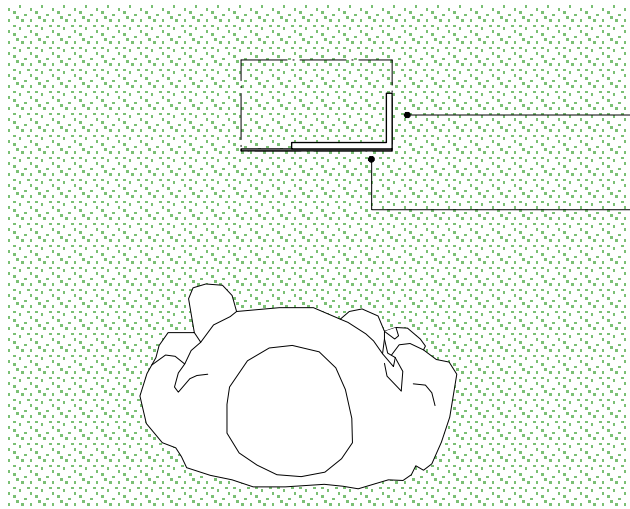
approved by  
approuve par

bid  
offre PSPC PROJECT  
MANAGER project manager  
administrateur  
de projets

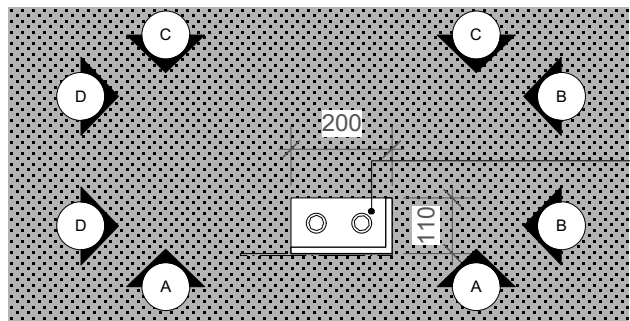
project date  
date du projet 2018-08-24

project no.  
no. du projet R.080100.002

drawing no.  
dessine no. W7



PLAN VIEW : At Grade



PLAN VIEW E-E: Below Grade

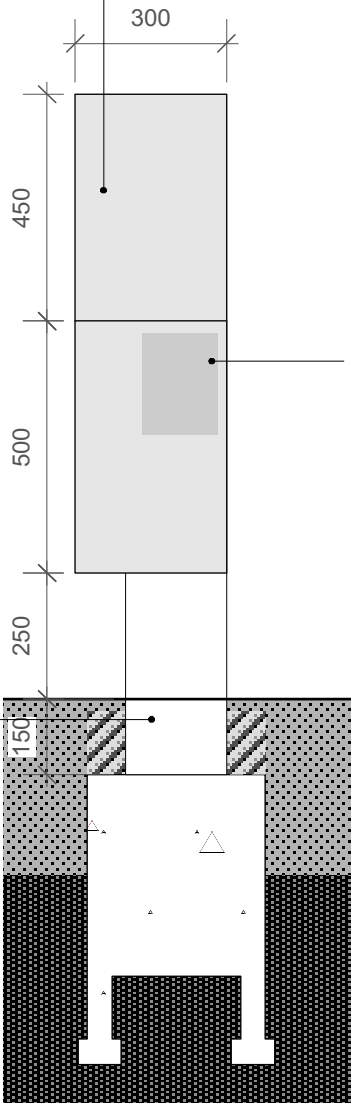
Refer to  
structural  
drawings for  
anchor pattern  
and fixing details

**Ground & Foundation:**  
- Existing ground condition repaired  
where possible  
- 100mm layer of 9.5mm crushed  
aggregate placed over filtered cloth on  
panel base to protect foundation and  
fixings  
- Non-shrink grout placed between  
concrete foundation and steel as per  
structural drawings  
- Concrete foundation set into bedrock  
as per structural drawings

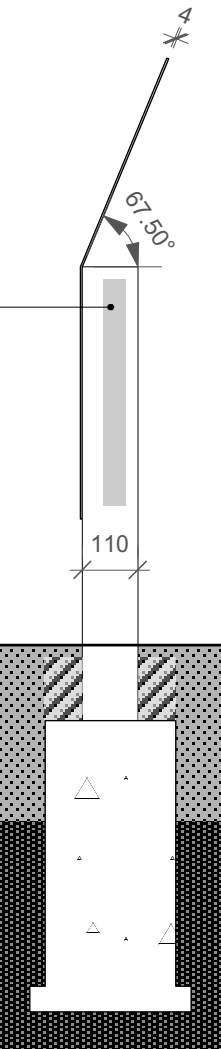
**Graphic Panel:**  
- 4mm steel panel with spray finish,  
colour to be confirmed  
- Upper panel bent back to allow for  
comfortable reading  
- Direct to Media printed graphics to  
finished panel surface with  
overlamine for additional  
environmental protection and graffiti  
resistance  
disturbance to design  
- See graphic package for all graphic  
details

**Support Panel:**  
- L-shaped 12mm Corten steel  
panel  
- Panel return welded clean, no  
visual disturbances to exterior faces  
- Panel welded clean to base plate  
- Support panel anchored to  
foundation 150mm below grade,  
foundation and fixing details as per  
structural drawings

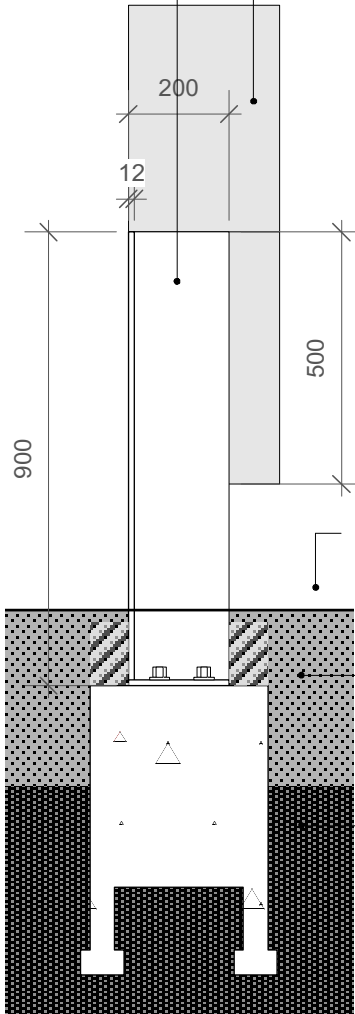
**Graphic Panel:**  
- Panel fixed to support panel from  
behind with removable fasteners  
for future updatability. No fasteners  
visible from front face.  
- Fixing details to be determined  
with contractor, to ensure minimal  
visual disturbance to design



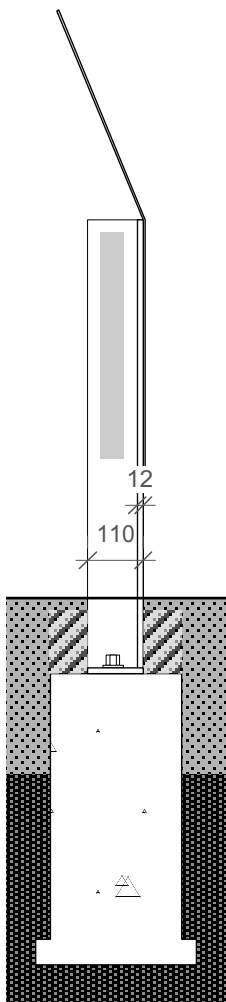
FRONT ELEVATION A-A



SIDE ELEVATION B-B



REAR ELEVATION C-C



SIDE ELEVATION D-D

FIND ME SIGN DETAILS (9 UNITS)  
Scale 1:15





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Services gouvernementaux Canada



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|  | B | No. du détail   |
|  | C | drawing no. — where detail required<br>dessin no. — où détail exigé |
|  |   | drawing no. — where detailed<br>dessin no. — où détaillé            |

project title  
titre du projet

ENVIRONMENT AND CLIMATE CHANGE CANADA

Prince Edward Point National Wildlife Area  
VISITOR'S EXPERIENCE IMPROVEMENTS

South Marysburgh Twp, Ontario

drawing title  
titre du dessin

COMBINATION SIGN DETAILS  
(4 UNITS)

|                         |    |
|-------------------------|----|
| drawn by<br>dessine par | NM |
|-------------------------|----|

|                         |    |
|-------------------------|----|
| designed by<br>conc par | NM |
|-------------------------|----|

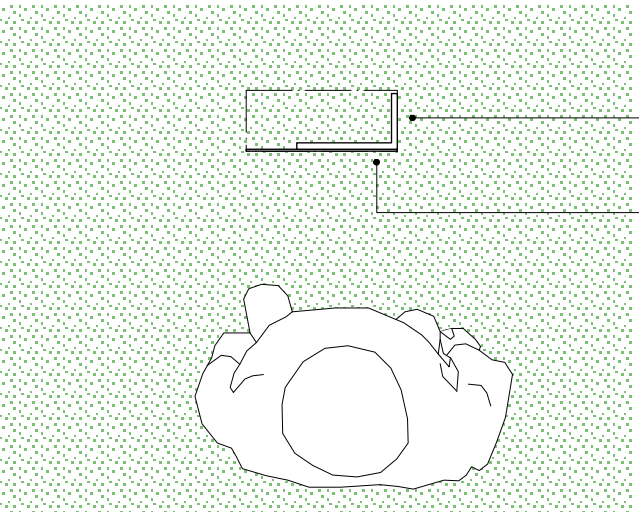
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| approved by<br>approuve par |  |
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| bid<br>offre | PSPC PROJECT<br>MANAGER | project manager<br>administrateur<br>de projets |
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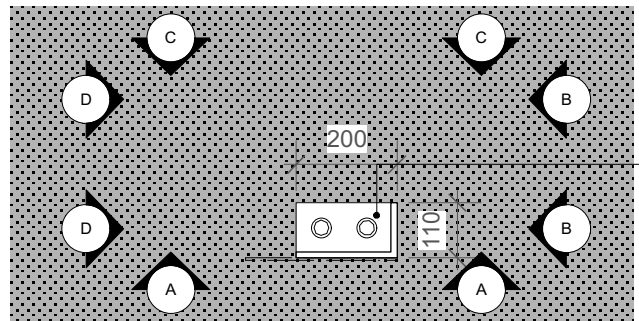
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| project date<br>date du projet | 2018-08-24 |
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| project no.<br>no. du projet | R.080100.002 |
|------------------------------|--------------|

|                            |    |
|----------------------------|----|
| drawing no.<br>dessine no. | W8 |
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PLAN VIEW : At Grade



PLAN VIEW E-E: Below Grade

**Graphic Panel:**

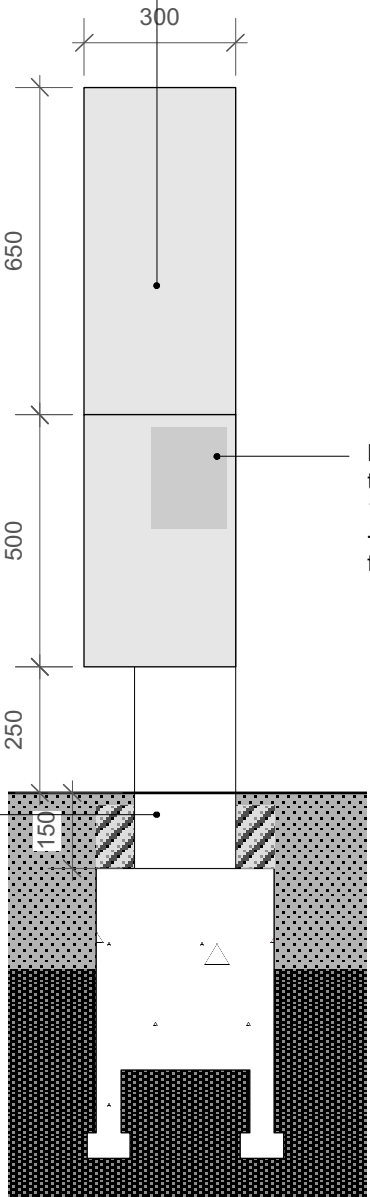
- 4mm steel panel with spray finish, colour to be confirmed
- Upper panel bent back to allow for comfortable reading
- Direct to Media printed graphics to finished panel surface with overlamine for additional environmental protection and graffiti resistance
- disturbance to design
- See graphic package for all graphic details

**Support Panel:**

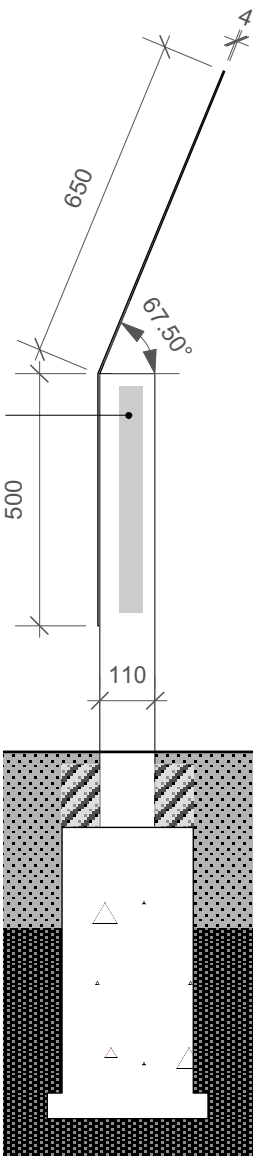
- L-shaped 12mm Corten steel panel
- Panel return welded clean, no visual disturbances to exterior faces
- Panel welded clean to base plate
- Support panel anchored to foundation 150mm below grade, foundation and fixing details as per structural drawings

**Graphic Panel:**

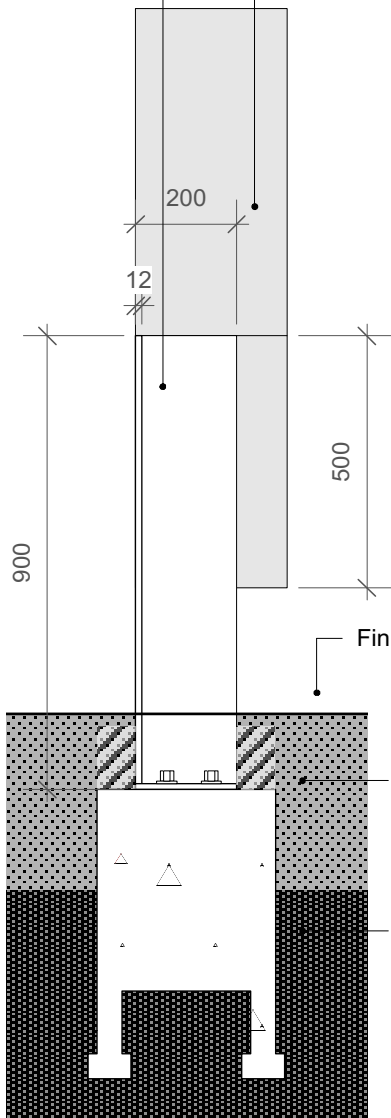
- Panel fixed to support panel from behind with removable fasteners for future updatability. No fasteners visible from front face.
- Fixing details to be determined with contractor, to ensure minimal visual disturbance to design



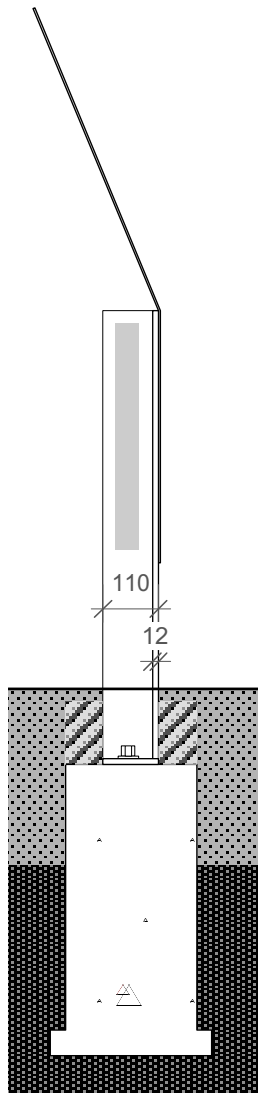
FRONT ELEVATION A-A



SIDE ELEVATION B-B



REAR ELEVATION C-C



SIDE ELEVATION D-D

**Ground & Foundation:**

- Existing ground condition repaired where possible
- 100mm layer of 9.5mm crushed aggregate placed over filtered cloth on panel base to protect foundation and fixings
- Non-shrink grout placed between concrete foundation and steel as per structural drawings
- Concrete foundation set into bedrock as per structural drawings

Laser cut silhouettes /  
text to panels cut to  
100% material depth  
- See graphic package  
for all graphic details

Finished grade

Soil  
(depth varies  
from 200mm to  
900mm)

Bedrock

COMBINATION SIGN DETAILS (4 UNITS)  
Scale 1:15



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A Detail No.  
No. du détail  
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dessin no. — où détail exigé  
C drawing no. — where detailed  
dessin no. — où détaillé

project title  
titre du projet

ENVIRONMENT AND CLIMATE CHANGE CANADA  
Prince Edward Point National Wildlife Area  
VISITOR'S EXPERIENCE IMPROVEMENTS  
South Marysburgh Twp, Ontario

drawing title  
titre du dessin

DIRECTIONAL SIGN  
DETAILS  
(4 UNITS)

drawn by  
dessiné par NM

designed by  
conc par NM

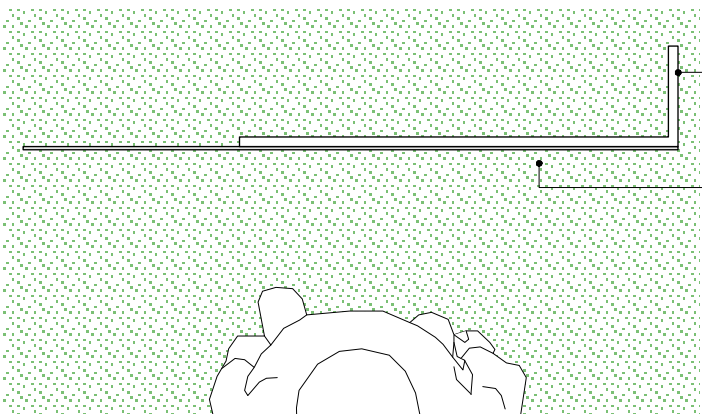
approved by  
approuvé par

bid offer PSPC PROJECT MANAGER project manager administrateur de projets

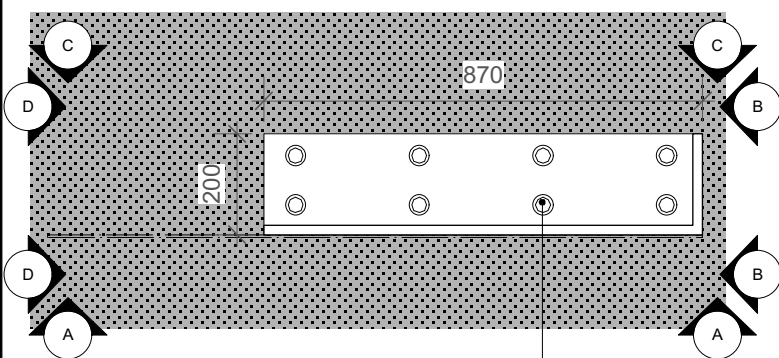
project date  
date du projet 2018-08-24

project no.  
no. du projet R.080100.002

drawing no.  
dessiné no. W9



PLAN VIEW : At Grade



PLAN VIEW E-E: Below Grade

Refer to  
structural  
drawings for  
anchor pattern  
and fixing details

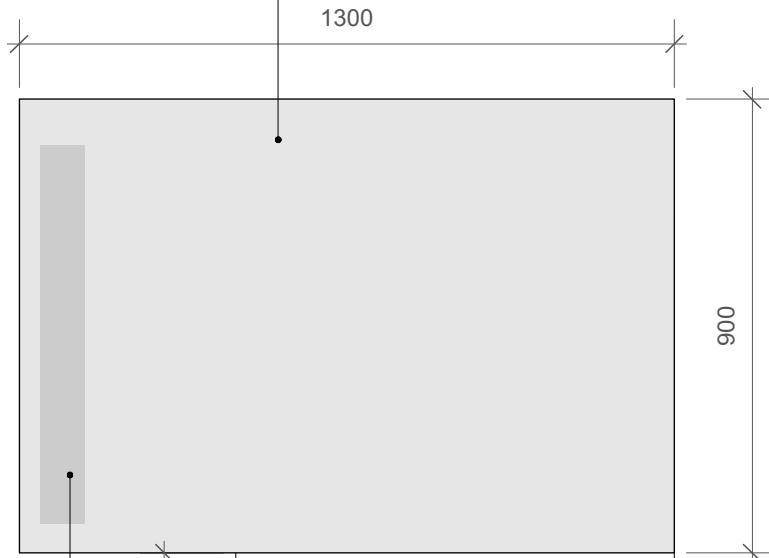
Laser cut  
silhouettes to  
panels cut to  
100% material  
depth  
- See graphic  
package for all  
graphic details

**Ground & Foundation:**  
- Existing ground condition repaired  
where possible  
- 100mm layer of 9.5mm crushed  
aggregate placed over filtered cloth on  
panel base to protect foundation and  
fixings  
- Non-shrink grout placed between  
concrete foundation and steel as per  
structural drawings  
- Concrete foundation set into bedrock  
as per structural drawings

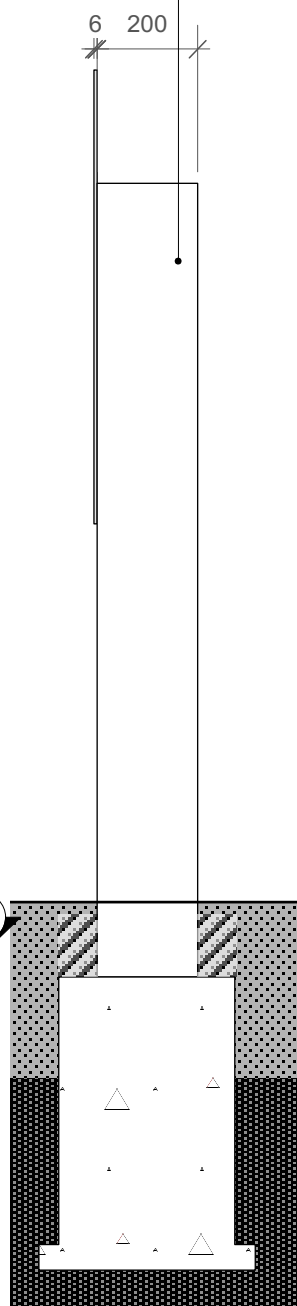
**Graphic Panel:**  
- 6mm steel panel with spray finish,  
colour to be confirmed  
- Direct to Media printed graphics to  
finished panel surface with overlamine  
for additional environmental protection  
and graffiti resistance  
- See graphic package for all graphic  
details

**Support Panel:**  
- L-shaped 19mm Corten steel panel  
- Panel return welded clean, no visual  
disturbances to exterior faces  
- Panel welded clean to base plate  
- Support panel anchored to foundation  
150mm below grade, foundation and  
fixing details as per structural drawings.

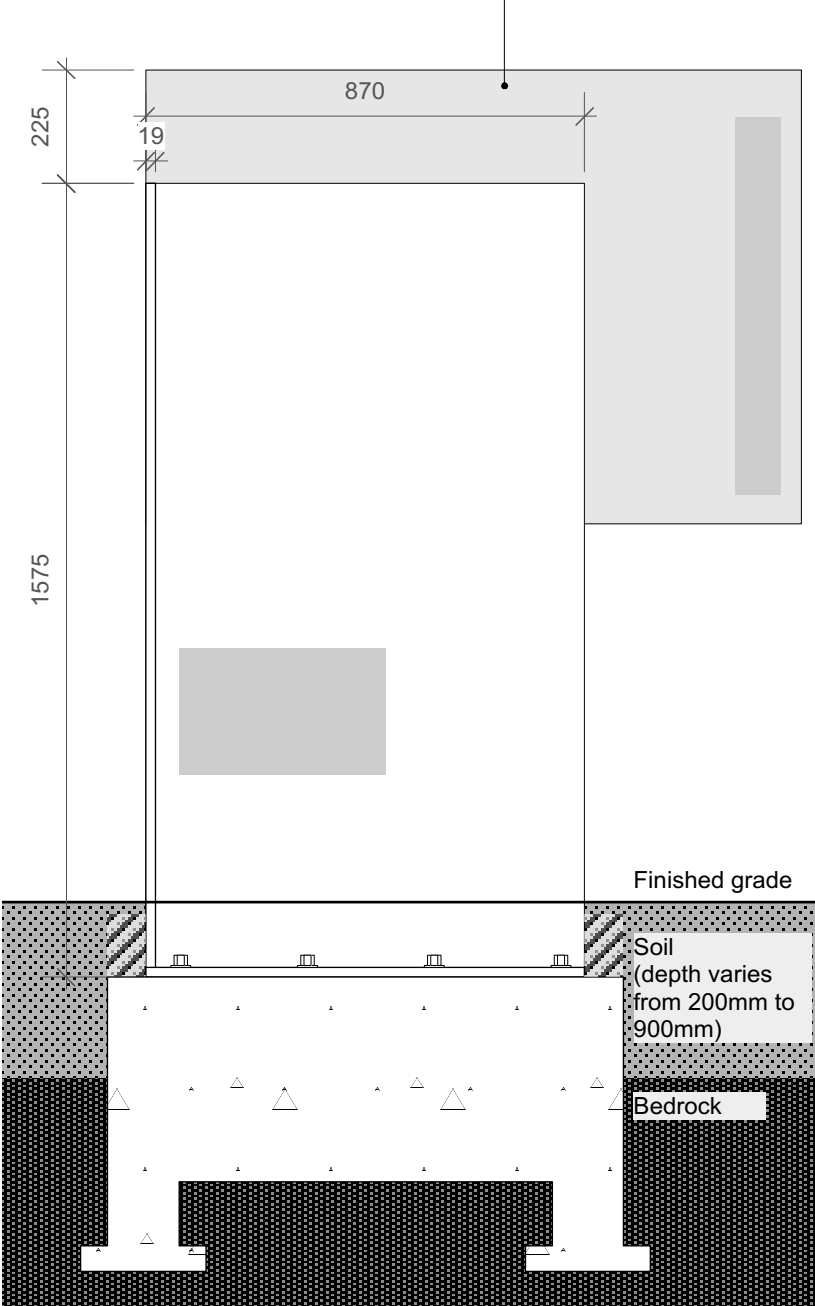
**Graphic Panel:**  
- Panel fixed to support panel from  
behind with removable fasteners for  
future updatability. No fasteners visible  
from front face.  
- Fixing details to be determined with  
contractor, to ensure minimal visual  
disturbance to design



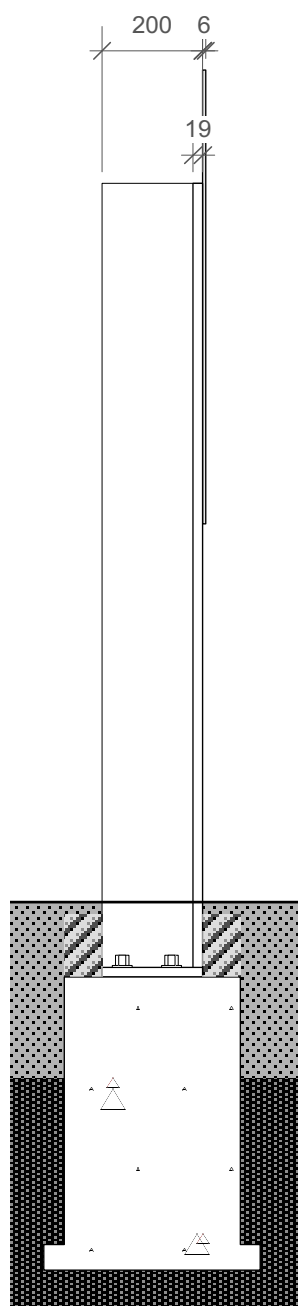
FRONT ELEVATION A-A



SIDE ELEVATION B-B



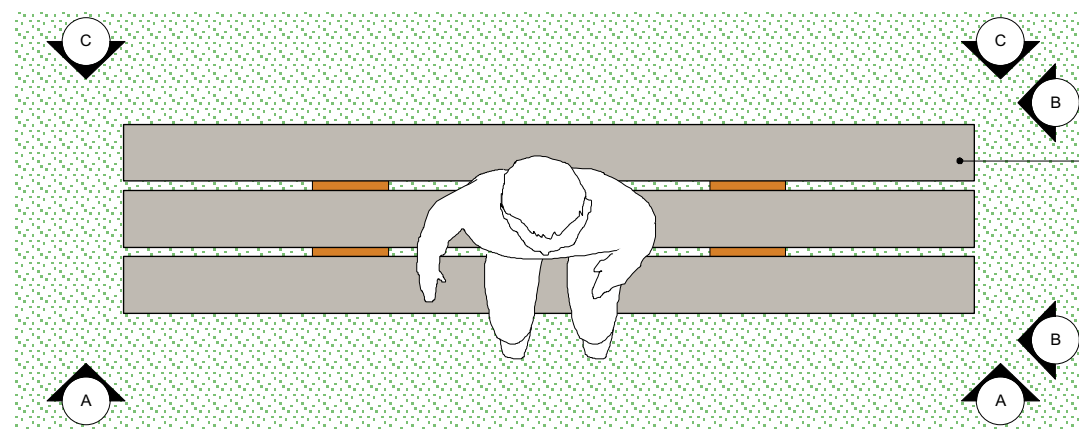
REAR ELEVATION C-C



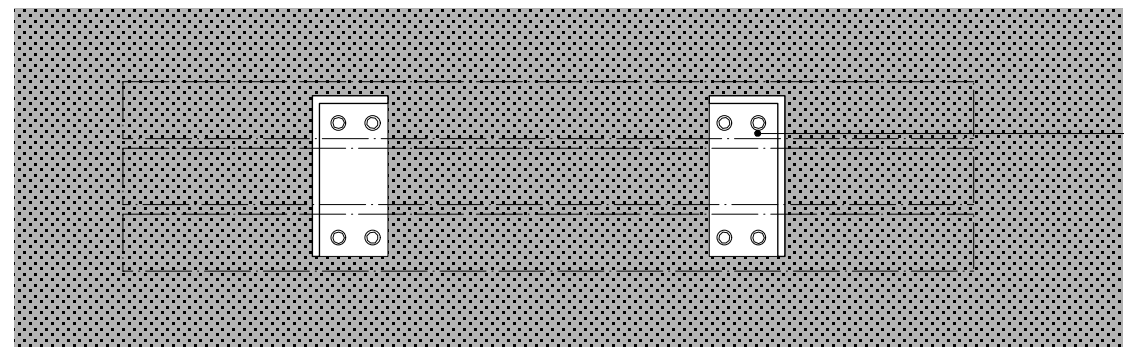
SIDE ELEVATION D-D

DIRECTIONAL SIGN DETAILS (4 UNITS)  
Scale 1:15

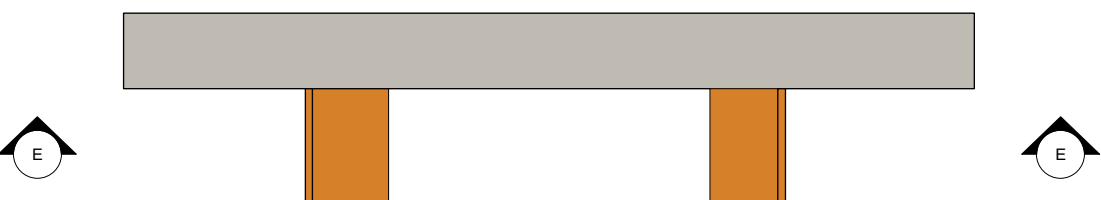




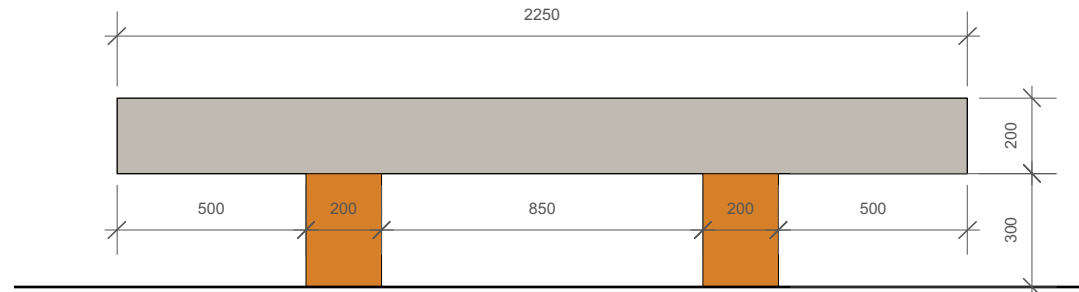
PLAN VIEW : At Grade



PLAN VIEW D-D: Below Grade



FRONT ELEVATION A-A

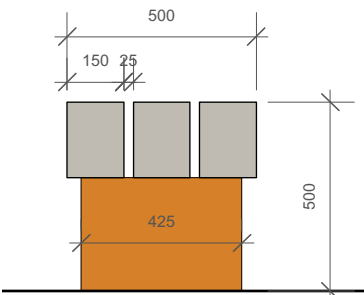


REAR ELEVATION C-C

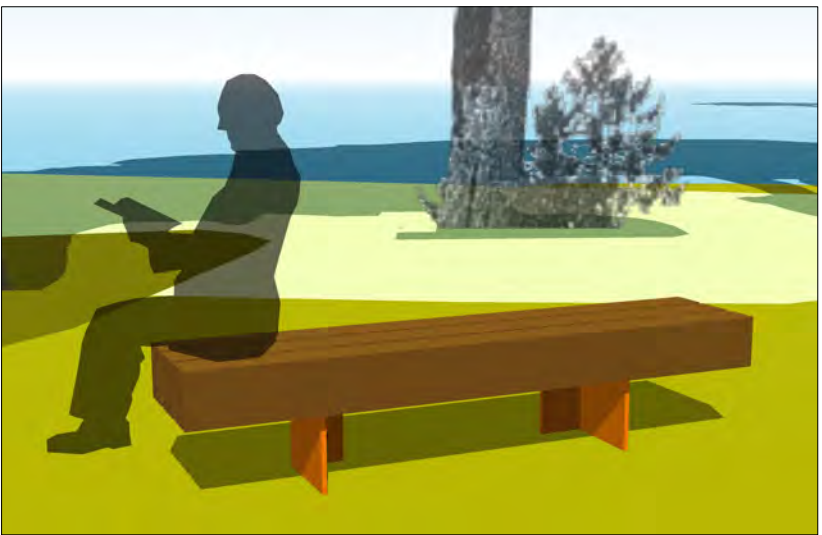
**BENCH DETAILS (5 UNITS)**  
**Scale 1:20**

- Bench Structure:**
- Heavy-duty wooden beams for bench seating, refer to specification for materials and finishes
  - L-shaped 12mm Corten steel panel supports
  - Panel returns welded clean, no visual disturbances to exterior faces
  - Panels welded clean to 3mm top plate & base plate
  - Base plate anchored to foundation 150mm below grade, foundation and fixing details as per structural drawings

Refer to structural drawings for anchor pattern and fixing details



SIDE ELEVATION B-B



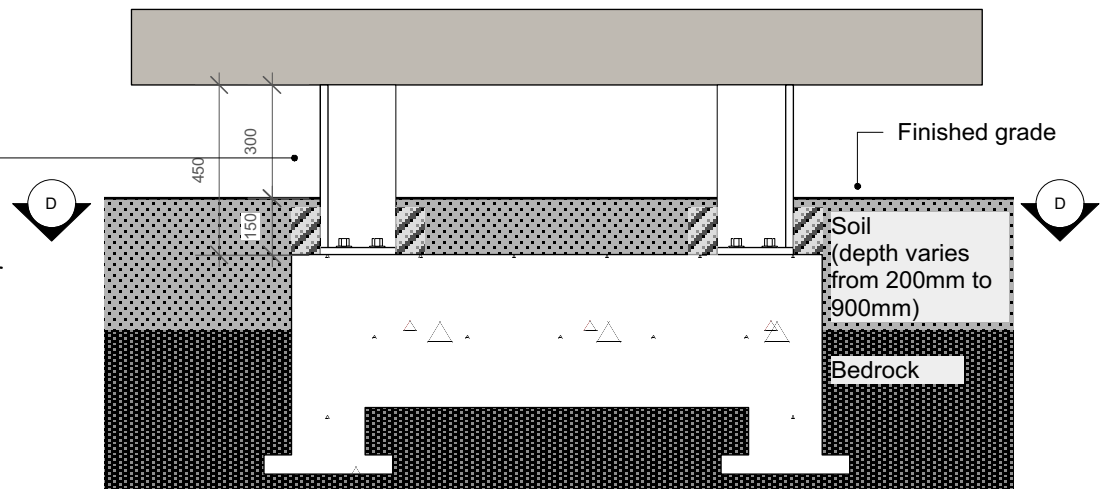
3D VIEW OF BENCH (nts)

Timber beams bolted from underside of steel plate with removable fixtures



REFLECTED PLAN E-E: Fixings viewed from below

- Ground & Foundation:**
- Existing ground condition repaired where possible
  - 100mm layer of 9.5mm crushed aggregate placed over filtered cloth on panel base to protect foundation and fixings
  - Non-shrink grout placed between concrete foundation and steel as per structural drawings
  - Concrete foundation set into bedrock as per structural drawings



SECTION VIEW A-A: Through Grade



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Services gouvernementaux Canada



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- |             |   |   |
|-------------|---|---|
| A<br>B<br>C | A | Detail No.  |
|             | B | No. du détail   |
|             | C | drawing no. — where detail required<br>dessin no. — où détail exigé |
|             |   | drawing no. — where detailed<br>dessin no. — où détaillé            |

project title  
titre du projet

ENVIRONMENT AND CLIMATE CHANGE CANADA

Prince Edward Point National Wildlife Area  
VISITOR'S EXPERIENCE IMPROVEMENTS

South Marysburgh Twp, Ontario

drawing title  
titre du dessin

**BENCH DETAILS  
(5 UNITS)**

|                         |    |
|-------------------------|----|
| drawn by<br>dessine par | NM |
|-------------------------|----|

|                         |    |
|-------------------------|----|
| designed by<br>conc par | NM |
|-------------------------|----|

|                             |  |
|-----------------------------|--|
| approved by<br>approuve par |  |
|-----------------------------|--|

|              |                         |   |
|--------------|-------------------------|---|
| bid<br>offre | PSPC PROJECT<br>MANAGER | project manager<br>administrateur<br>de projets |
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| project date<br>date du projet | 2018-08-24 |
|--------------------------------|------------|

|                              |              |
|------------------------------|--------------|
| project no.<br>no. du projet | R.080100.002 |
|------------------------------|--------------|

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|----------------------------|-----|
| drawing no.<br>dessine no. | W10 |
|----------------------------|-----|



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Services gouvernementaux Canada

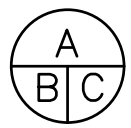


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A Detail No.  
No. du détail  
B drawing no. – where detail required  
dessin no. – où détail exigé  
C drawing no. – where detailed  
dessin no. – où détaillé

project title  
titre du projet  
**ENVIRONMENT AND CLIMATE CHANGE CANADA**  
**Prince Edward Point National Wildlife Area**  
**VISITOR'S EXPERIENCE IMPROVEMENTS**  
**South Marysburgh Twp, Ontario**

drawing title  
titre du dessin  
**GRAPHIC ELEVATION  
SAMPLES**

|                         |    |
|-------------------------|----|
| drawn by<br>dessine par | NM |
|-------------------------|----|

|                         |    |
|-------------------------|----|
| designed by<br>conc par | NM |
|-------------------------|----|

|                             |  |
|-----------------------------|--|
| approved by<br>approuve par |  |
|-----------------------------|--|

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|--------------|-------------------------|---|
| bid<br>offre | PSPC PROJECT<br>MANAGER | project manager<br>administrateur<br>de projets |
|--------------|-------------------------|---|

|                                |            |
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| project date<br>date du projet | 2018-08-24 |
|--------------------------------|------------|

|                              |              |
|------------------------------|--------------|
| project no.<br>no. du projet | R.080100.002 |
|------------------------------|--------------|

|                            |     |
|----------------------------|-----|
| drawing no.<br>dessine no. | W11 |
|----------------------------|-----|

**NOTE:**  
- For illustration purposes only  
- Each panel to have unique graphic  
- Final artwork to follow  
- Refer to signage support drawings  
for all quantities, dimensions and  
fabrication details

Text laser cut from support  
panel at 100% panel depth

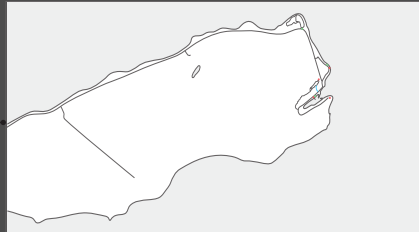
Maps in progress, design details  
to follow.

**Graphic panel:** Sprayed steel  
with charcoal paint finish tbc  
and direct to media print (text,  
maps, images / illustrations)

Silhouette cut from graphic  
panel at 100% panel depth to  
expose Corten panel behind

**Support panel:** Corten steel  
finish

**PRINCE EDWARD  
POINT NATIONAL  
WILDLIFE AREA**  
**RÉSERVE NATIONALE  
DE FAUNE DE PRINCE  
EDWARD POINT**



**Welcome**

The Prince Edward Point National Wildlife Area (PEP NWA) is a part of the Prince Edward Point National Wildlife Area (PEP NWA) and is located on the south shore of Prince Edward County, Ontario. It is a part of the Prince Edward Point National Wildlife Area (PEP NWA) and is located on the south shore of Prince Edward County, Ontario.

**Bienvenues**

La Réserve nationale de faune de Prince Edward Point (RNFPEP) est une partie de la Réserve nationale de faune de Prince Edward Point (RNFPEP) et est située sur la rive sud de la péninsule de Prince Edward, en Ontario.

**For Your Safety**

Please read the following information carefully. It is important that you understand the rules and regulations of the wildlife area. Please read the following information carefully. It is important that you understand the rules and regulations of the wildlife area.

**Enjoy Your Visit**

Please read the following information carefully. It is important that you understand the rules and regulations of the wildlife area. Please read the following information carefully. It is important that you understand the rules and regulations of the wildlife area.

**Permitted Activities**

Please read the following information carefully. It is important that you understand the rules and regulations of the wildlife area. Please read the following information carefully. It is important that you understand the rules and regulations of the wildlife area.

**Les activités autorisées**

Please read the following information carefully. It is important that you understand the rules and regulations of the wildlife area. Please read the following information carefully. It is important that you understand the rules and regulations of the wildlife area.

**Profil de votre site**

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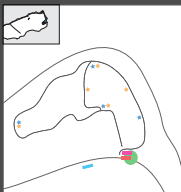
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**WELCOME . BIENVENUE**

**BEACH  
PLAGE**



**Places for nature in a  
Sweetwater Sea**

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**Lieux pour la nature  
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**THE BEACH . LA PLAGE**

ARRIVAL SIGN: FRONT & SIDE ELEVATIONS

ORIENTATION SIGN: FRONT & SIDE ELEVATIONS

**GRAPHIC ELEVATION SAMPLES**  
**Scale 1:10**



NOTE:

- For illustration purposes only
- Each panel to have unique graphic
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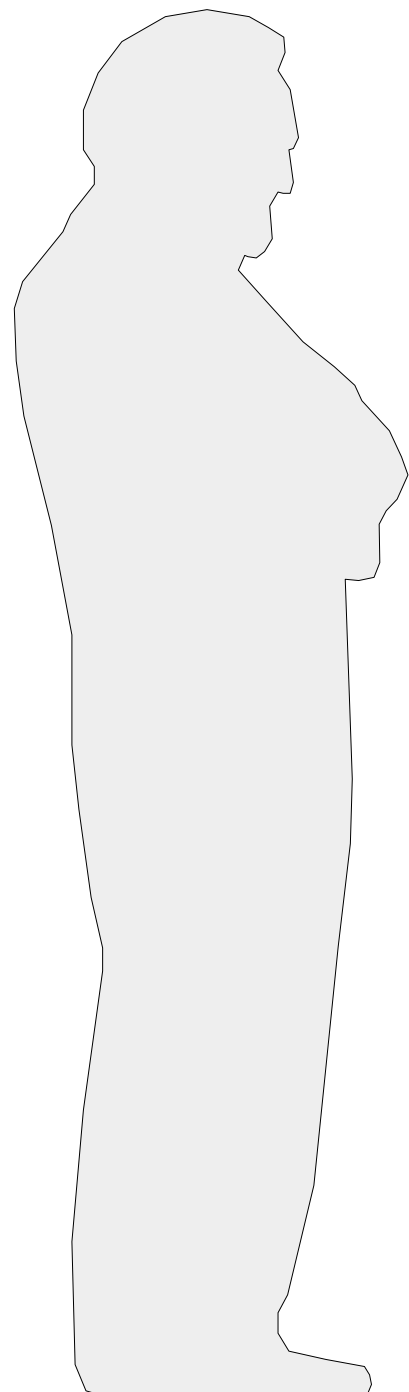
Maps in progress, design details to follow.

Graphics and text printed direct to media.

English and French texts printed in different tones to allow them to be easily distinguished.

Text laser cut from support panel at 100% panel depth

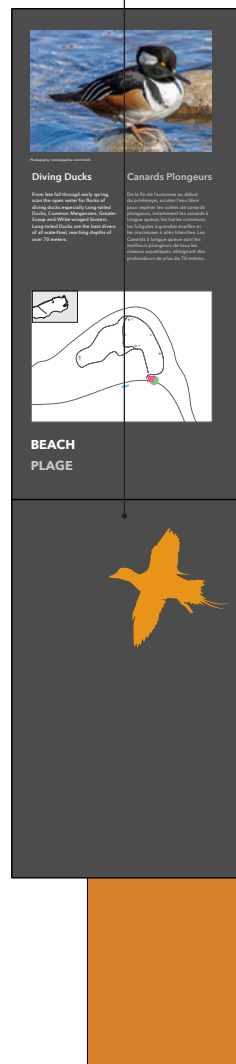
Silhouette style illustration laser cut out from graphic panel to show support material behind.



TRAIL MARKER SIGN: FRONT & SIDE ELEVATIONS



FIND ME SIGN: FRONT & SIDE ELEVATIONS



COMBINATION SIGN: FRONT & SIDE ELEVATIONS

GRAPHIC ELEVATION SAMPLES  
Scale 1:10



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

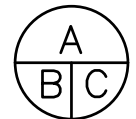


Nuria Montblanch Design  
46 Rusholme Rd | Toronto ON | M6J 3H4  
T 416.825.5758 | W nuriamontblanch.com

01 ISSUED FOR TENDER 24 AUG 2018

revision date

Do not scale drawings.  
Verify all dimensions and conditions on site and immediately  
notify the Departmental Representative of all discrepancies.



- A Detail No.  
No. du détail  
B drawing no. – where detail required  
dessin no. – où détail exigé  
C drawing no. – where detailed  
dessin no. – où détaillé

project title  
titre du projet

ENVIRONMENT AND CLIMATE CHANGE CANADA  
Prince Edward Point National Wildlife Area  
VISITOR'S EXPERIENCE IMPROVEMENTS

South Marysburgh Twp, Ontario

drawing title  
titre du dessin

GRAPHIC ELEVATION  
SAMPLES

drawn by  
dessine par

NM

designed by  
conc par

NM

approved by  
approuve par

bid  
offre

PSPC PROJECT  
MANAGER

project manager  
administrateur  
de projets

project date  
date du projet

2018-08-24

project no.  
no. du projet

R.080100.002

drawing no.  
dessine no.

W12

NOTE:

- For illustration purposes only
- Each panel to have unique graphic
- Final artwork to follow
- Refer to signage support drawings for all quantities, dimensions and fabrication details

Text printed direct to media.

Arrows laser cut out from from support panel at 100% panel depth

English and French texts printed in different tones to allow them to be easily distiguished.

Silhouette style illustration laser cut out from support panel at 100% panel depth

<

Look Out  
Guetteur

0.1km

^

Point Traverse Trail  
Sentier Point Traverse

1.3km

^

Beach  
Plage

2.1km

^

PEP Bird Observatory  
Observatoire d'oiseaux PEP

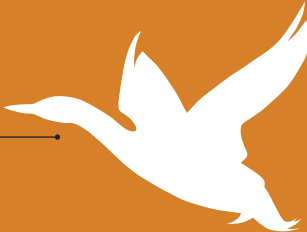
2.0km

^

Harbour  
Port

2.4Km

Canada



DIRECTIONAL SIGN: FRONT & SIDE ELEVATIONS

GRAPHIC ELEVATION SAMPLES  
Scale 1:10



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



Nuria Montblanch Design  
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T 416.825.5758 | W nuriamontblanch.com

|          |                   |             |
|----------|-------------------|-------------|
| 01       | ISSUED FOR TENDER | 24 AUG 2018 |
| revision |                   | date        |

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Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.

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GRAPHIC ELEVATION  
SAMPLES

drawn by  
dessine par

NM

designed by  
conc par

NM

approved by  
approuve par

bid  
offre

PSPC PROJECT  
MANAGER

project manager  
administrateur  
de projets

project date  
date du projet

2018-08-24

project no.  
no. du projet

R.080100.002

drawing no.  
dessine no.

W13