

1 FIRE SEPARATION PLAN  
1:100

FIRE SEPARATIONS

◆◆◆◆ 1 HOUR FIRE RESISTANCE RATING

FINISH SCHEDULE

Room No.	Room Name	Floor		Wall		Ceiling		Schedule	Notes
		Finish	Mat'l	Finish	Base	Mat'l	Mat'l		
101	WAITING AREA	-	CO	-	CO	WD	WD	-	2408
102	B/F C/R	EP	CO	CT1	EP	GBB/GBMR	GB	PT	2408
103	C/R	EP	CO	CT1	EP	GBB/GBMR	GB	PT	2408
104	W/C	EP	CO	CT1	EP	GBB/GBMR	GB	PT	2408
105	W/C	EP	CO	CT1	EP	GBB/GBMR	GB	PT	2408
106	B/F W/C	EP	CO	CT1	EP	GBB/GBMR	GB	PT	2408
107	MECH.	-	CO	PT	RB	GBIR	GB	PT	2408
108	B/F W/C	EP	CO	CT1	EP	GBB/GBMR	GB	PT	2408

SCHEDULE NOTES

1. GBMR, FROM FLOOR TO 50 MM BELOW TOP OF WALL TILE. GBMR ABOVE

SCHEDULE LEGEND

C	CP	CONCRETE, POLISHED
E	ELEC.	ELECTRICAL
	EXP.	EXPOSED
	EP	EPOXY
G	GB	GYPSUM BOARD
	GBB	GYPSUM BOARD BACKING
	GBIR	GYPSUM BOARD, IMPACT RESISTANT
	GBMR	GYPSUM BOARD, MOISTURE RESISTANT
H	HT.	HEIGHT
P	PT	PAINT
R	RB	RESILIENT BASE

DOOR SCHEDULE

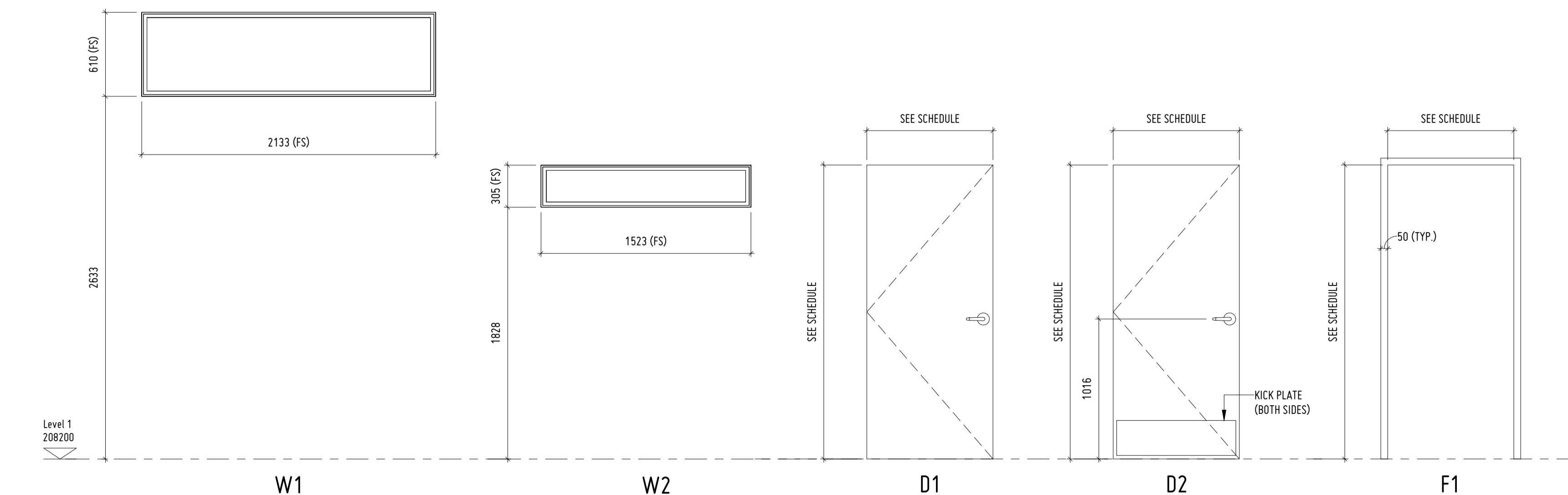
Door No.	Swing	Door Size (mm)		Type	Mat'l	Finish	Glazing	Type	Frame		Fire Rating
		W	H						Mat'l	Finish	
102.1	LH	915	2134	D2	HMI	PT	-	F1	PST	PT	-
103.1	RH	915	2134	D2	HMI	PT	-	F1	PST	PT	-
104.1	LH	915	2134	D2	HMI	PT	-	F1	PST	PT	-
105.1	RH	915	2134	D2	HMI	PT	-	F1	PST	PT	-
106.1	LH	915	2134	D2	HMI	PT	-	F1	PST	PT	-
107.1	RH	915	2134	D1	HMI	PT	-	F1	PST	PT	45 min.
108.1	RHR	915	2134	D2	HMI	PT	-	F1	PST	PT	-

SCHEDULE NOTES

1. ALL DOOR HARDWARE AND ACCESSORIES TO BE BARRIER FREE MEETING THE REQUIREMENTS OF CSA B651.

SCHEDULE LEGEND

F	FS	Frame Size
H	HM	Hollow Metal
	HMI	Hollow Metal, Insulated
	PST	Pressed Steel, Thermally Broken
	PT	Paint



2 WINDOWS, DOORS AND FRAMES  
1:25

APPLICABLE CODES AND STANDARDS	
Building Code:	2020 Nova Scotia Building Code (NSBC) 2015 National Building Code of Canada (NBCC)
Fire Code:	2005 National Fire Code of Canada
Accessibility:	2020 Nova Scotia Building Code (NSBC) 2015 National Building Code of Canada (NBCC)

**BUILDING DESCRIPTION**  
The proposed structure is a one storey building consisting of washrooms, mechanical room, and exterior waiting area.

Building Area:	74.3 m <sup>2</sup>
Major Occupancy:	Group D, Business and Personal Services: Offices

BUILDING CLASSIFICATION	
Construction Article:	NBCC 3.2.2.28 (Group A2)
Building Area:	400 m <sup>2</sup>
Building Height:	1 Storey
Req'd Streets to Face:	1
Construction Permitted:	Combustible or Noncombustible (singly or in combination)
Floor Assemblies:	n/a
Roof Assemblies:	No rating required.
Mezzanine Assemblies:	No rating required.
Loadbearing FRR:	No rating required.
Sprinklered:	Not required.
Standpipes:	Not required.
Fire Alarm:	Not required.
Fire Hydrant:	Not required.

CONSTRUCTION REQUIREMENTS	
Construction Type:	Combustible or Noncombustible.
Mezzanine FRR:	n/a
Roof Fire Resistance Rating:	None.
Floor Fire Resistance Rating:	n/a
Loadbearing FRR:	None.

**SPATIAL SEPARATIONS**

The type of construction, cladding and fire-resistance rating of the exposed building faces is summarized below. (per NBCC)

Facing	Required Limiting Distance	Wall Area (m <sup>2</sup> )	Unprotected Openings		Construction of Exposing Building Face
			Permitted	Proposed	
North	>8 m	68	100%	10%	Combustible or Noncombustible.
South	>6 m	19	100%	5%	Combustible or Noncombustible.
West	>6 m	20	100%	0%	Combustible or Noncombustible.
East	>6 m	20	100%	0%	Combustible or Noncombustible.

FIRE SEPARATIONS		
Room or Area	Required Fire	Code Reference
Electrical Rooms	1 Hr.	3.6.2.1.6
Mechanical Rooms	1 Hr.	3.6.2.1.7

OCCUPANT LOADS	
1st Storey:	Less than 10 (per Table 3.1.17.1)

PLUMBING FIXTURES					
	Occupant Load	Water Closets		Lavatories	
		Required	Provided	Required	Provided
Males	5	0.5	0.5	0.5	2
Females	5	0.5	0.5	0.5	2

BARRIER-FREE DESIGN	
Elevator Required:	n/a
Min. Number of B.F. Entrances	Not Less Than 50%
Req'd Number for B.F. Water Closets	1

ABBREVIATIONS

A	ALUM.	ALUMINUM
AVC	AIR AND VAPOUR CONTROL	
B/F	BARRIER FREE	
C/R	CHANGEROOM	
c/w	COMPLETE WITH	
E	ELEC.	ELECTRICAL
F	FS	FRAME SIZE
G	ga.	GAUGE
	GALV.	GALVANIZED
	GB	GYPSUM BOARD
H	HT.	HEIGHT
I	IMP	INSULATED METAL PANEL
M	MAT'L	MATERIAL
	MAX.	MAXIMUM
	MECH.	MECHANICAL
	MIN.	MINIMUM
	mm	MILLIMETRE
	o.c.	ON CENTRE
O	POLYISO	POLYISOCYANURATE
P	PT.	PARTIAL REFERENCE
R	REF	REFERENCE
S	Sim.	SIMILAR
T	T.O.P	TOP OF TYP.
	U	UNLESS NOTED OTHERWISE
	u/s	UNDERSIDE
V	VEST.	VESTIBULE
W	w/	WITH
	W/C	WATER CLOSET
	WD	WOOD
X	XPS	EXTRUDED POLYSTYRENE INSULATION

ISSUE	DATE	DESCRIPTION
3	04/03/2022	ISSUED FOR TENDER
2	05/01/2022	ISSUED FOR 90% REVIEW
1	14/10/2021	ISSUED FOR 50% REVIEW

CONSULTANT

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PROJECT DESCRIPTION

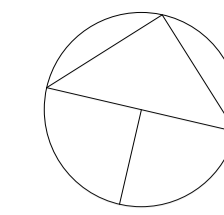
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AYLESFORD, NOVA SCOTIA, B0P 1C0

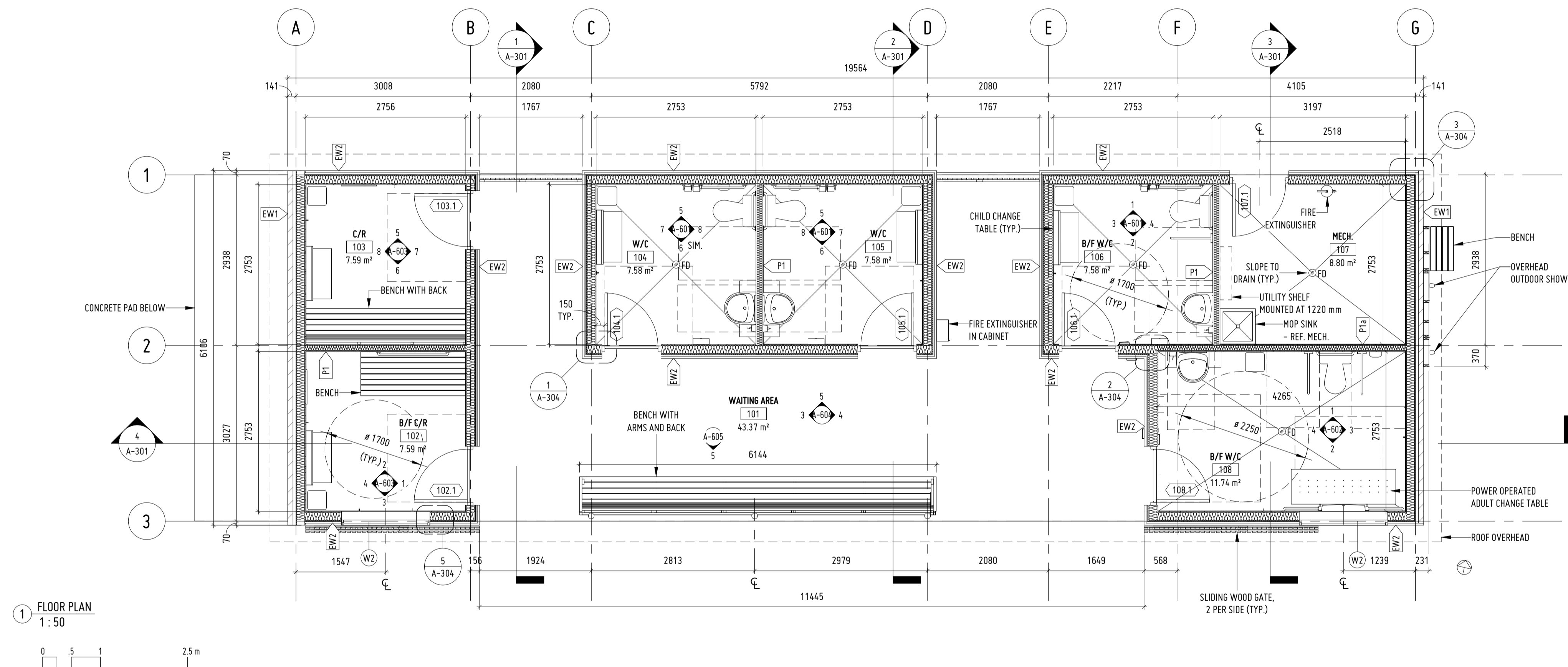
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CODE REVIEW, ABBREVIATIONS AND FIRE SEPARATION PLAN

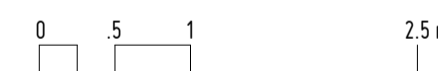
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Scale As Indicated	Date 10/05/21	1 OF 11	



KEY PLAN: NTS

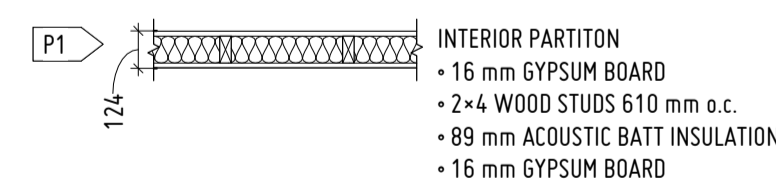


1 FLOOR PLAN  
1 : 50



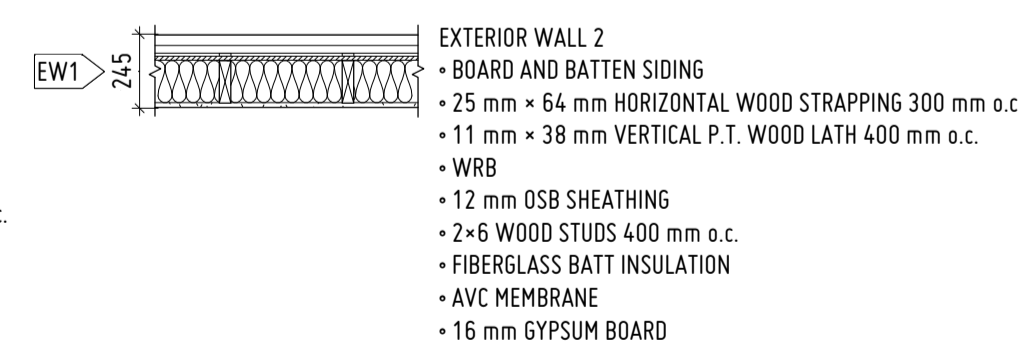
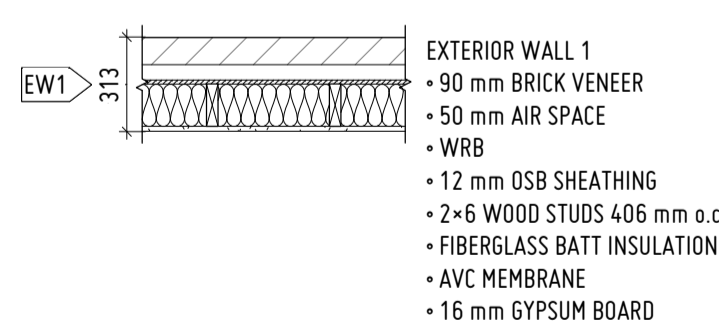
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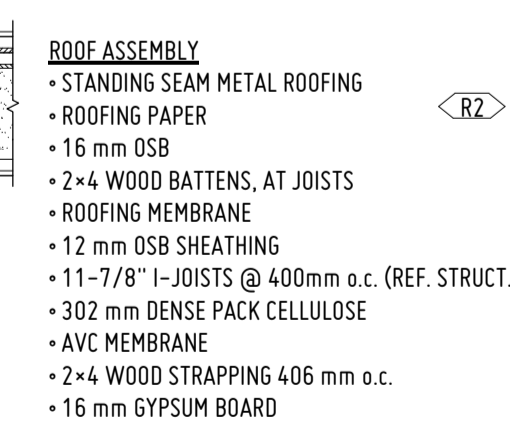
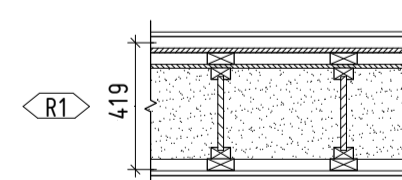
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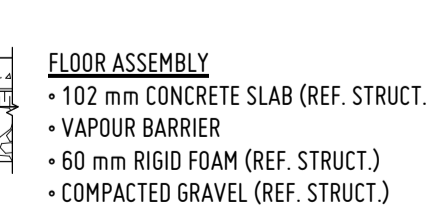
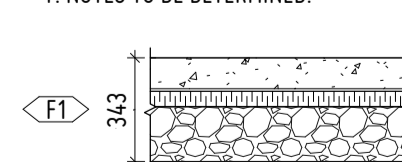
### ROOF ASSEMBLY

1. NOTES TO BE DETERMINED.



### FLOOR ASSEMBLY

1. NOTES TO BE DETERMINED.



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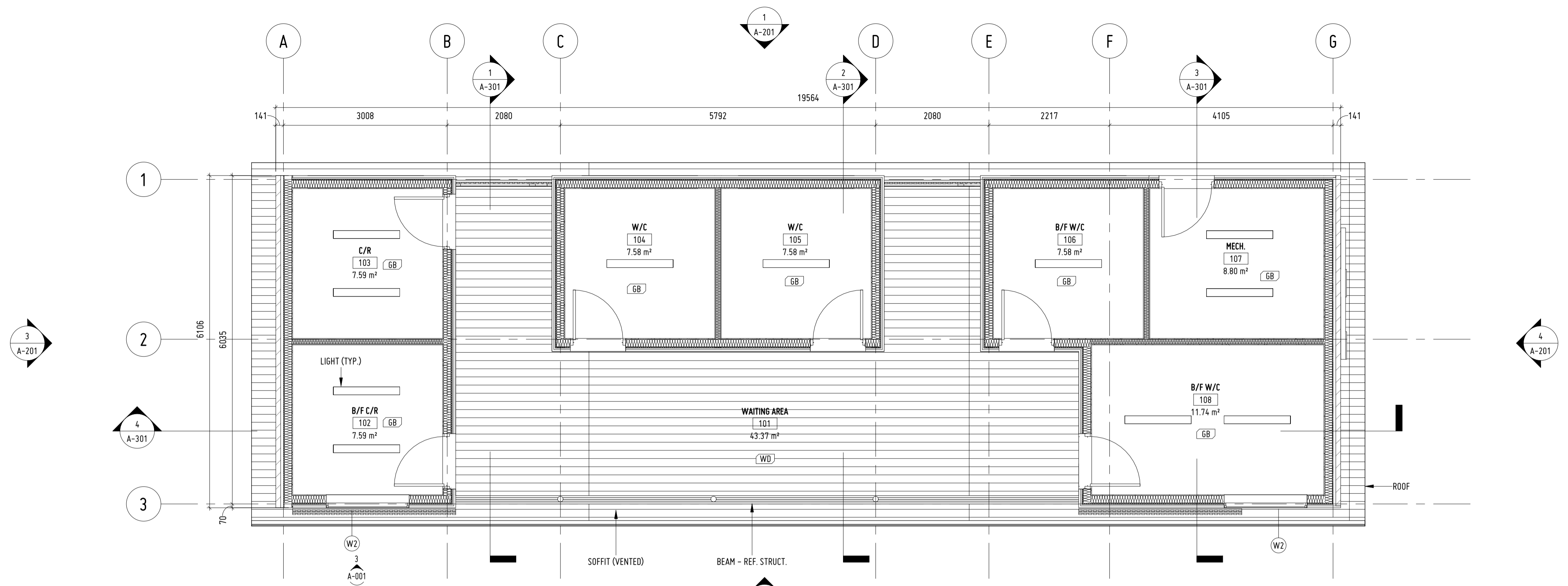
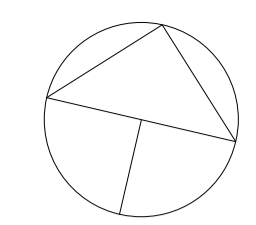
AYLESFORD, NOVA SCOTIA, B0P 1C0

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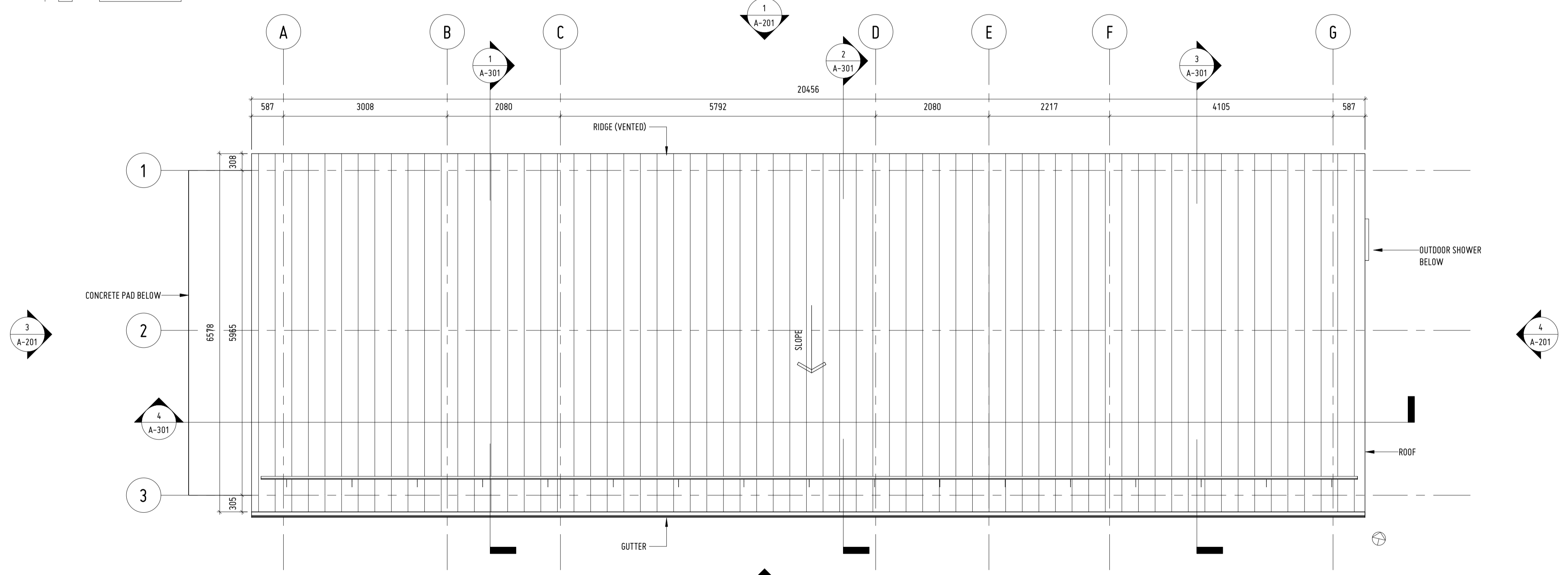
FLOOR PLAN

Drawn NEL	Architect MMJ	Project No. 2021025	Drawing No. A-101
Scale As Indicated	Date 07/20/21	2 OF 11	





1 REFLECTED CEILING PLAN  
1 : 50



2 ROOF PLAN  
1 : 50

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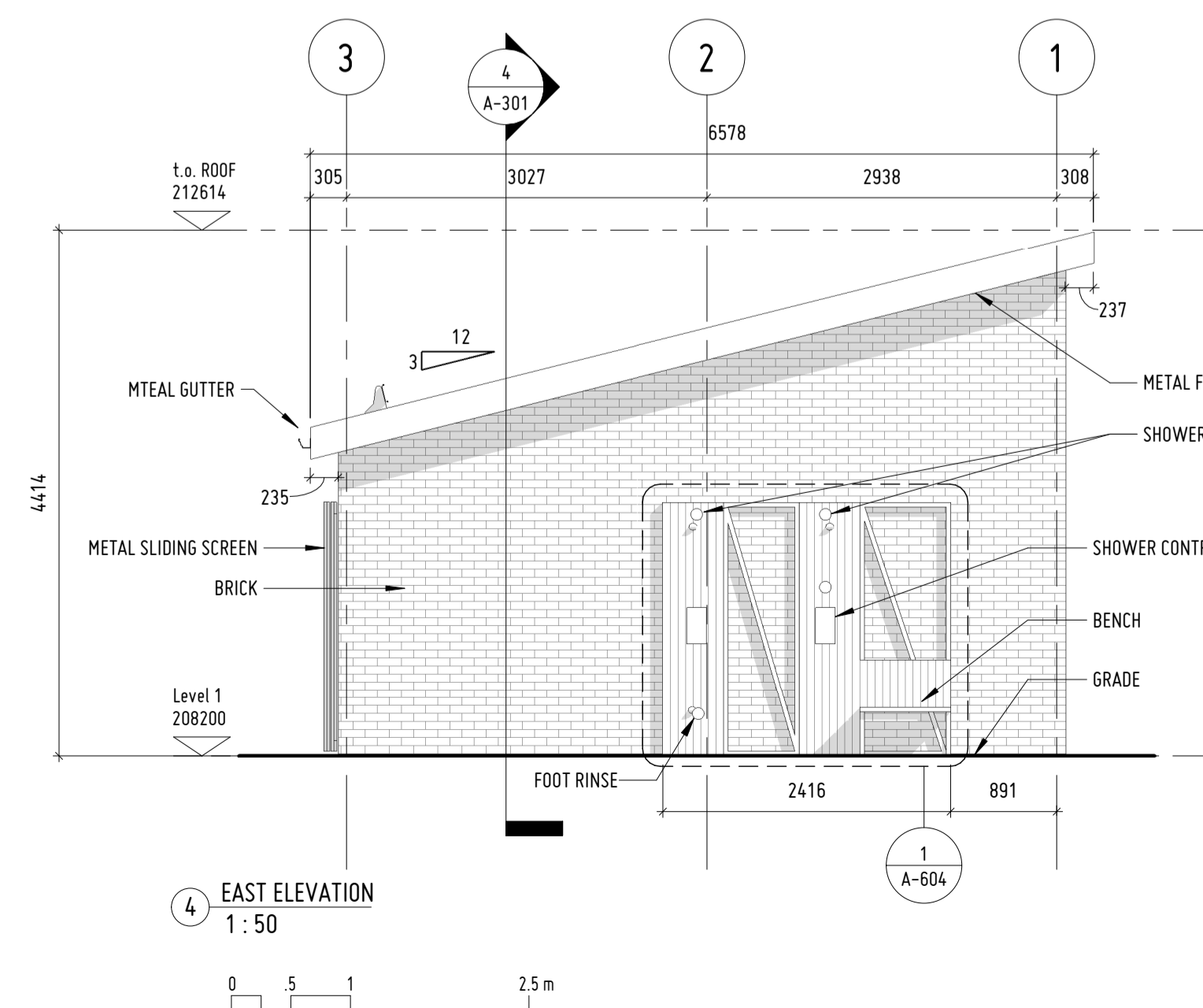
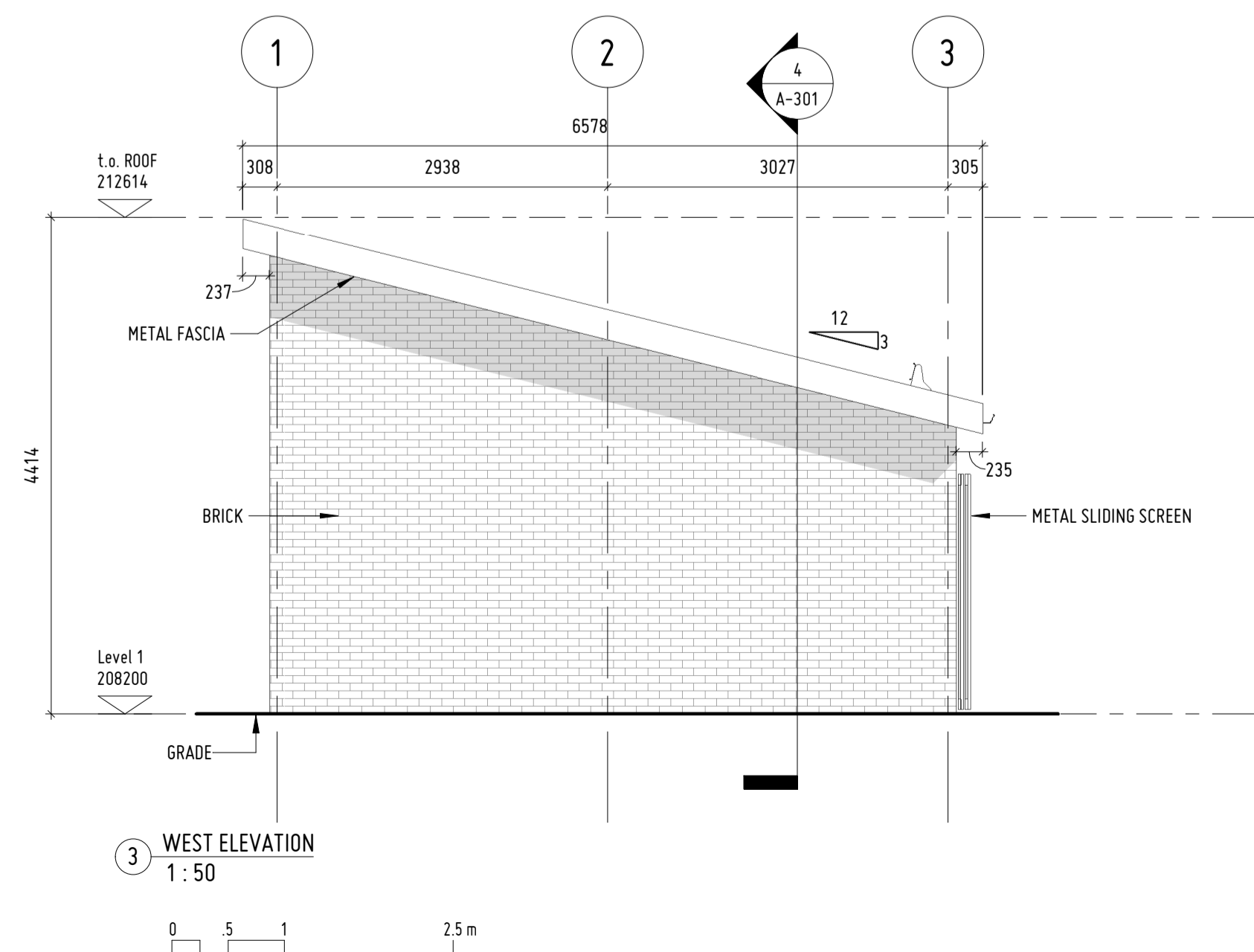
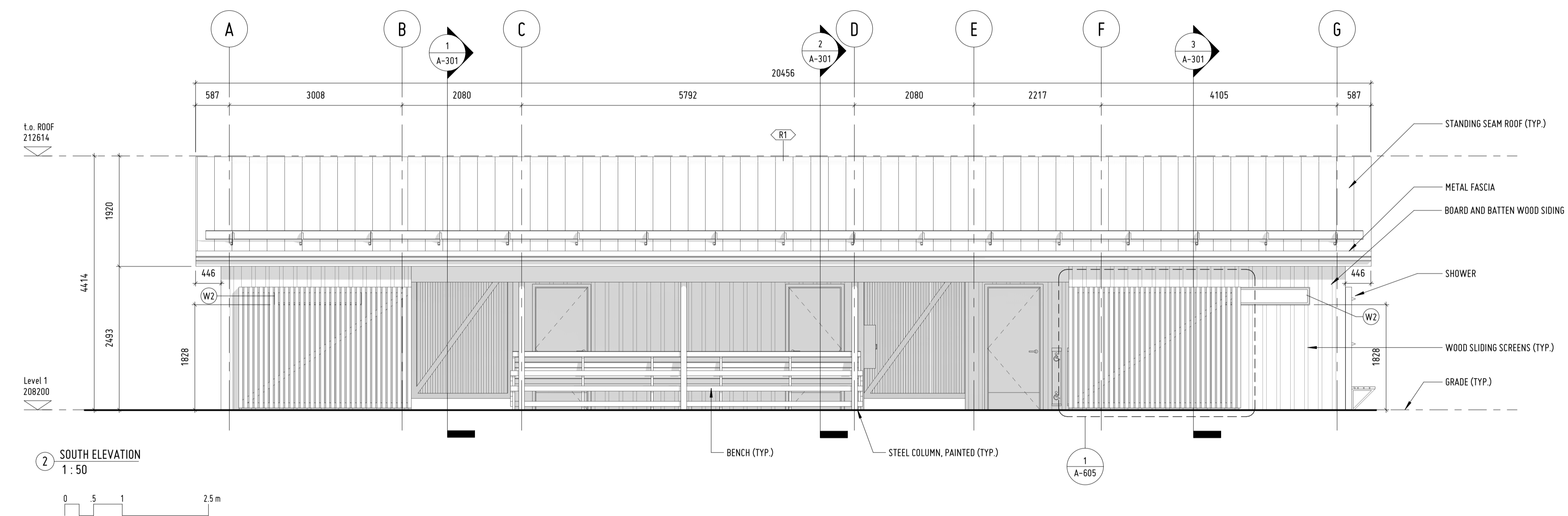
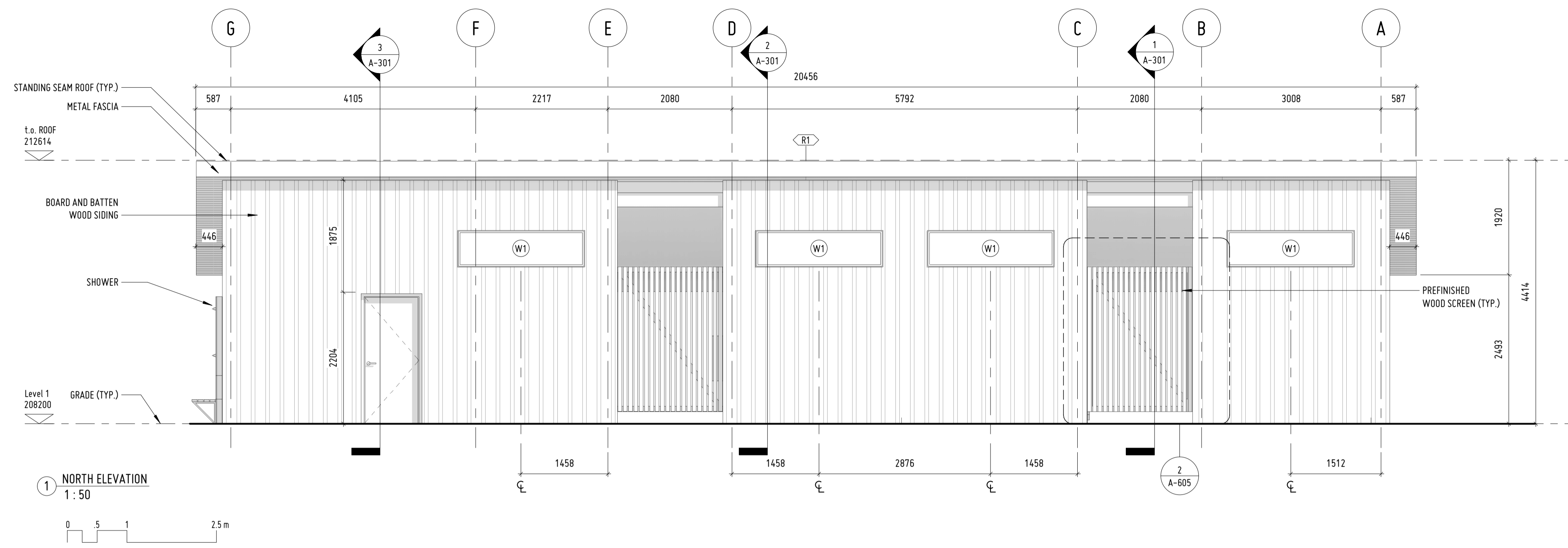
580 N RIVER ROAD

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SHEET DESCRIPTION

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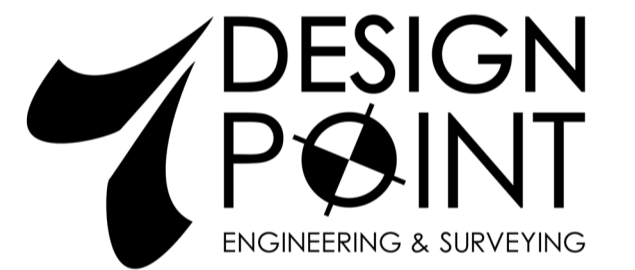
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Scale 1 : 50	Date 10/05/21	3 OF 11	



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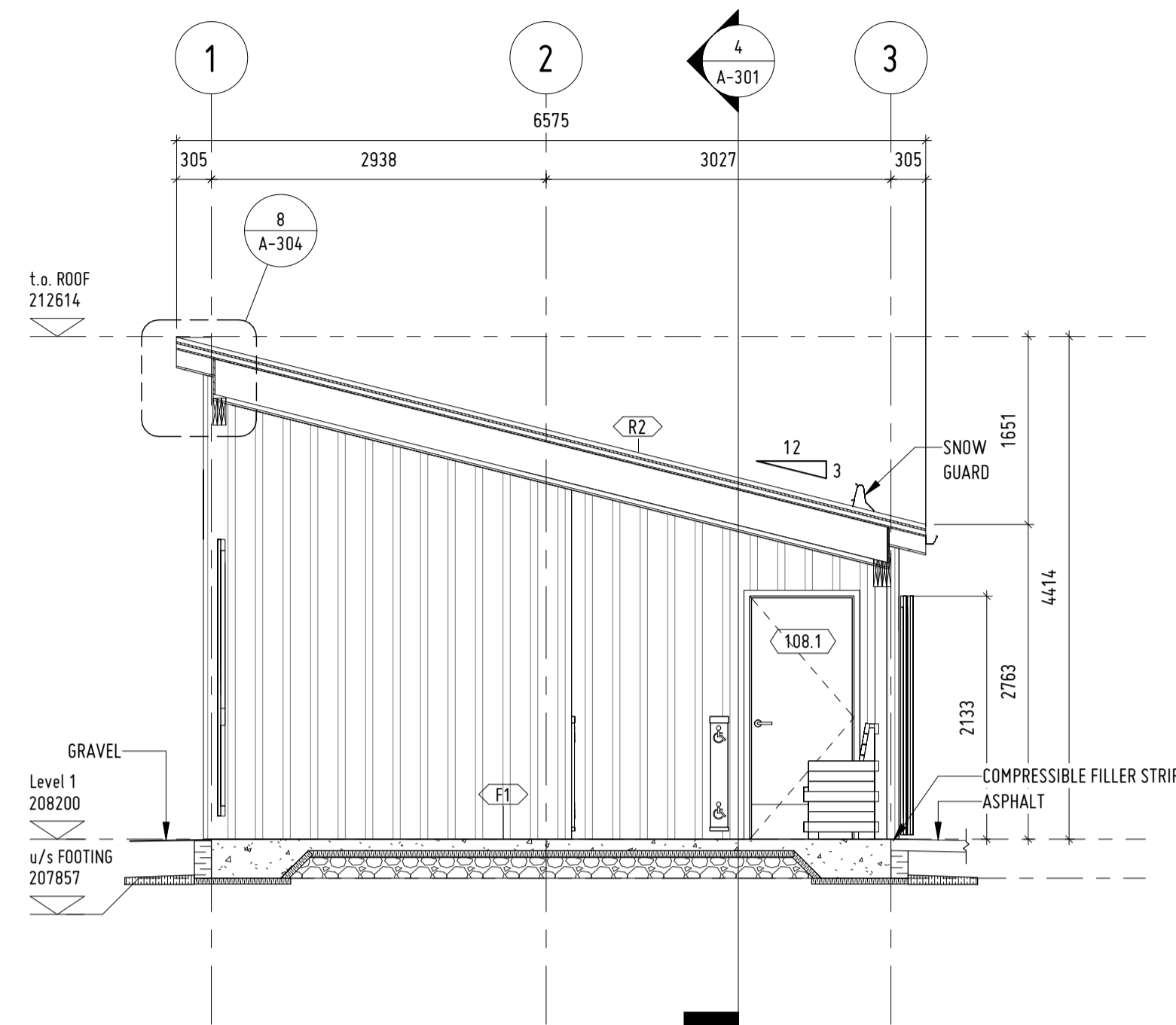
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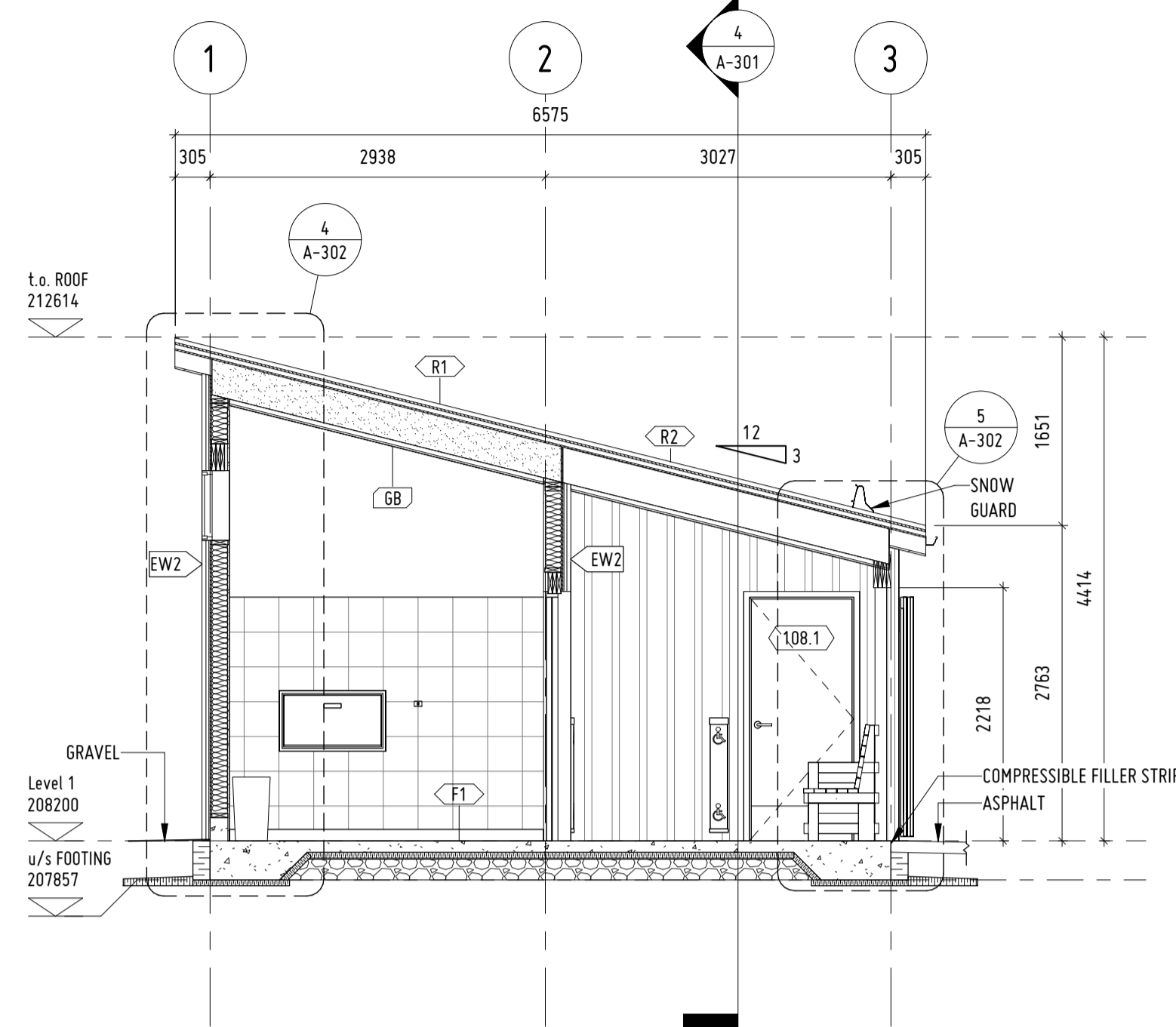
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BUILDING ELEVATIONS

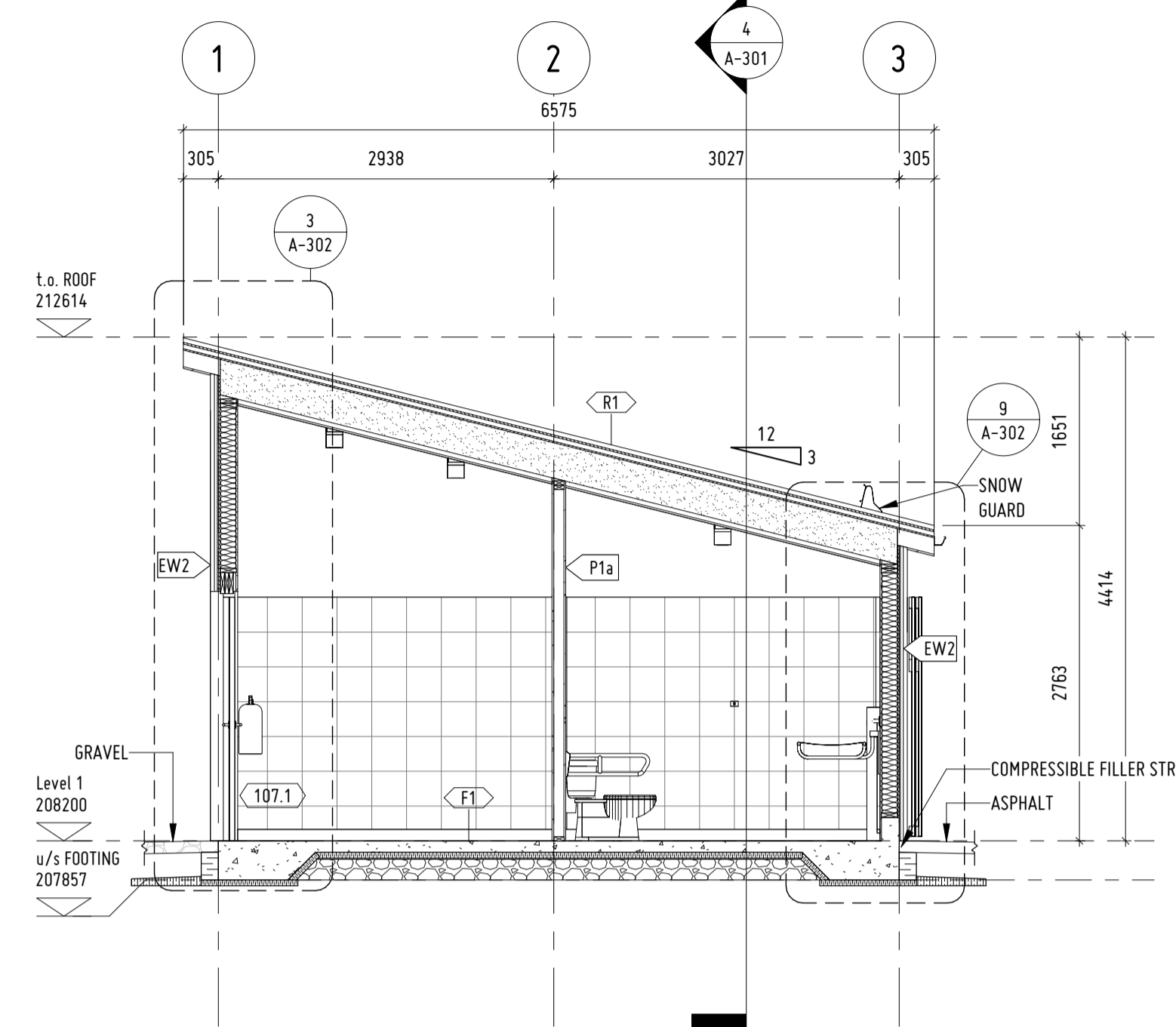
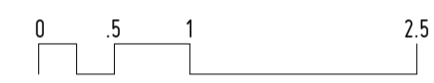
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Scale 1:50	Date 08/25/21		4 OF 11



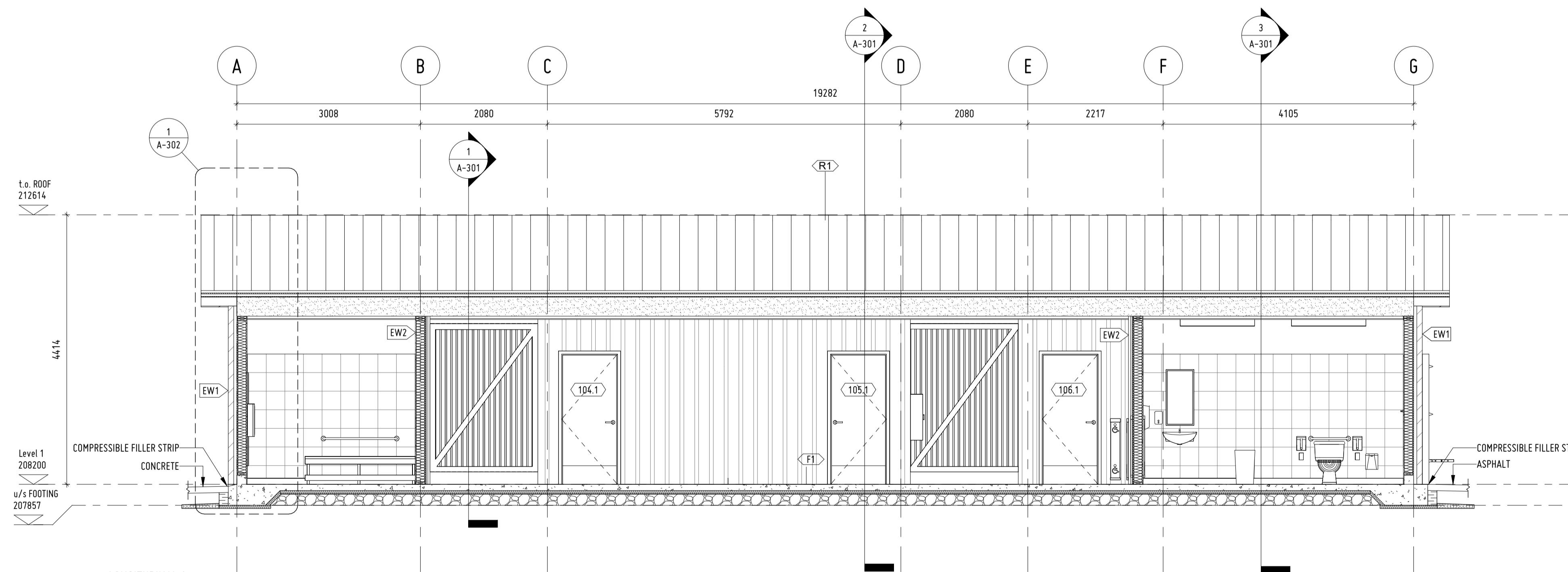
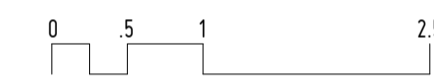
1 TRANSVERSE 1  
1:50



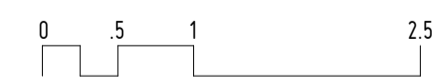
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1:50



3 TRANSVERSE 3  
1:50



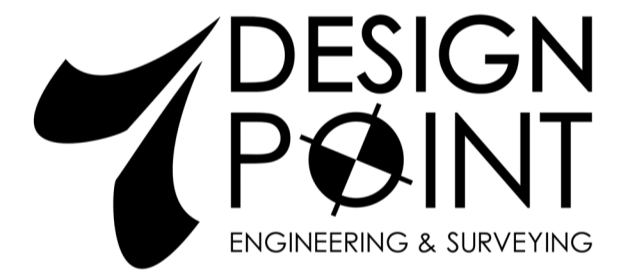
4 LONGITUDINAL 1  
1:50



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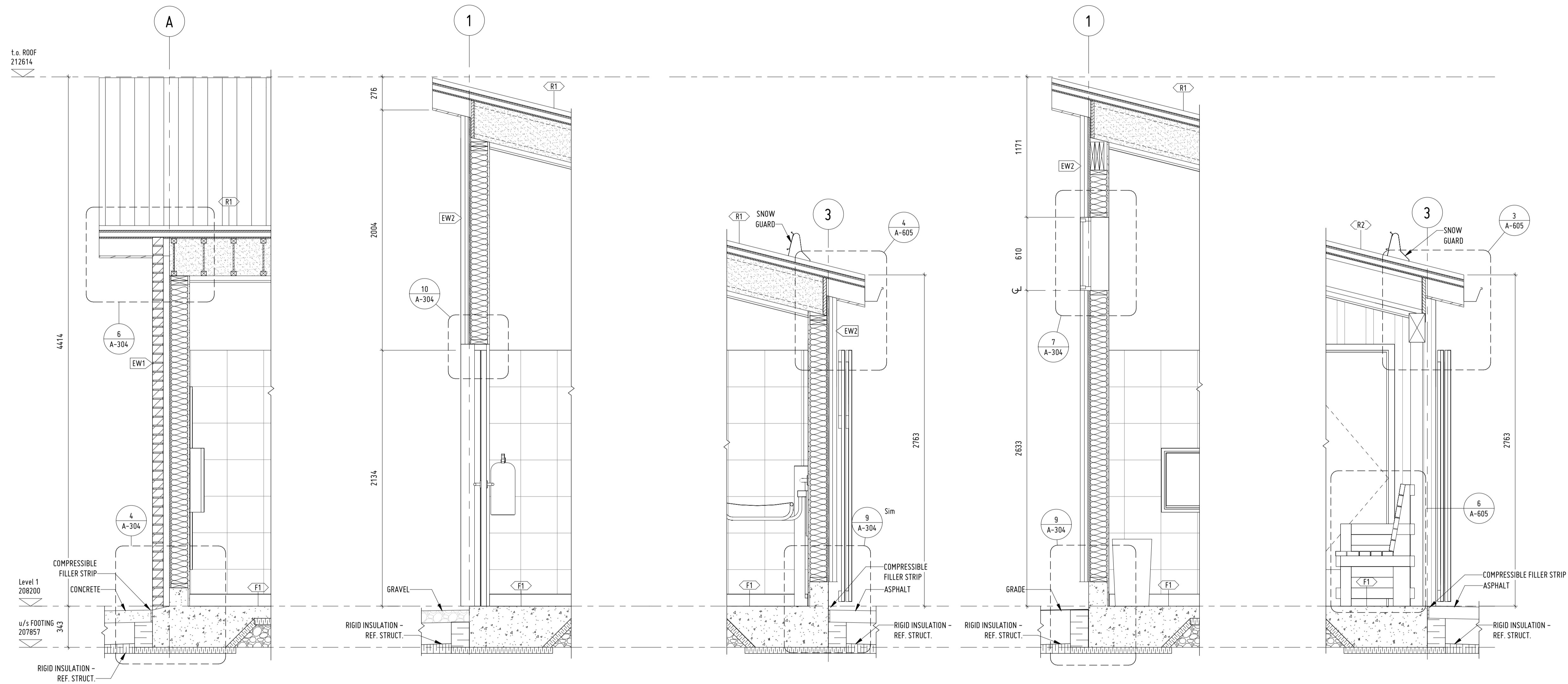
SHEET DESCRIPTION

SECTIONS

Drawn NEL	Architect MMJ	Project No. 2021025	Drawing No. A-301
Scale 1:50	Date 10/05/21		5 OF 11



KEY PLAN: NTS



1 WALL SECTION 1  
1:20

3 WALL SECTION 2  
1:20

9 WALL SECTION 3  
1:20

4 WALL SECTION 4  
1:20

5 WALL SECTION 5  
1:20

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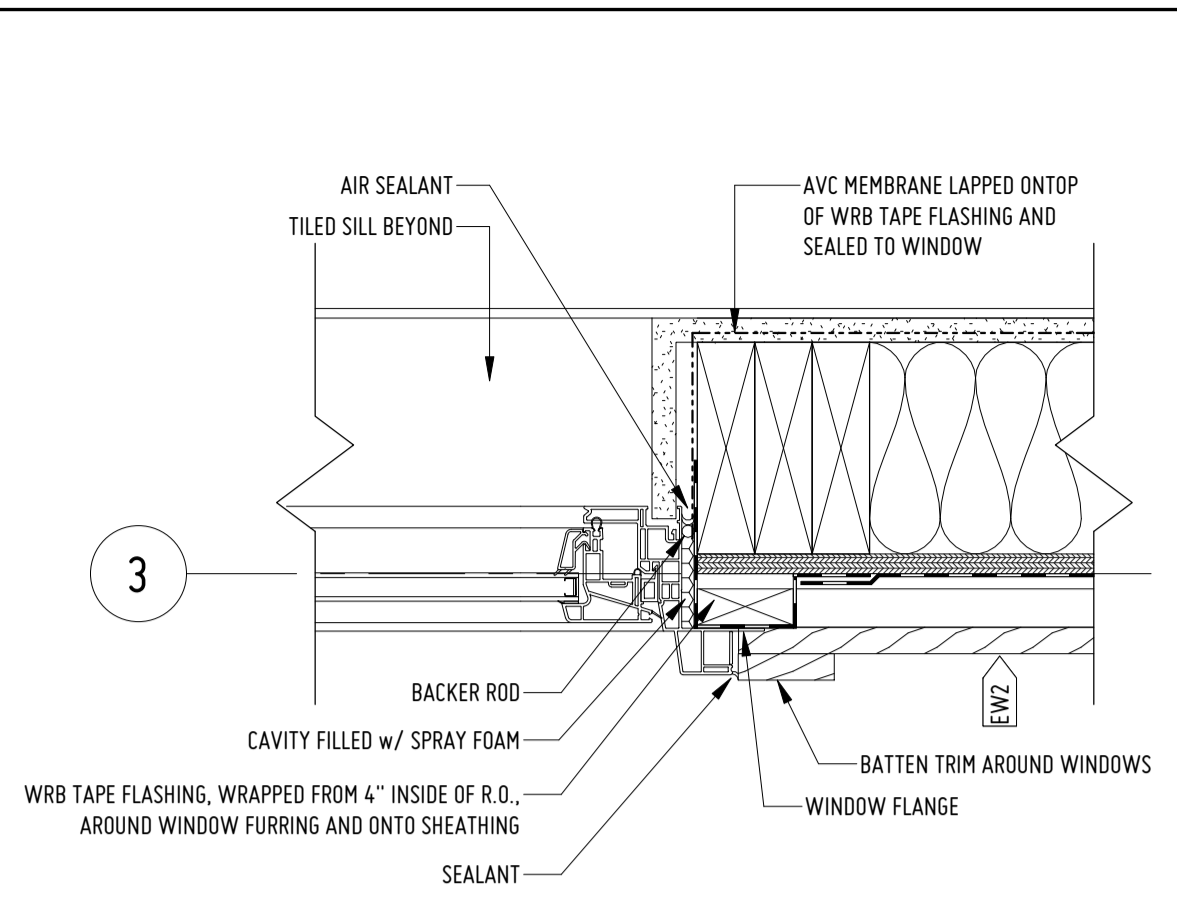
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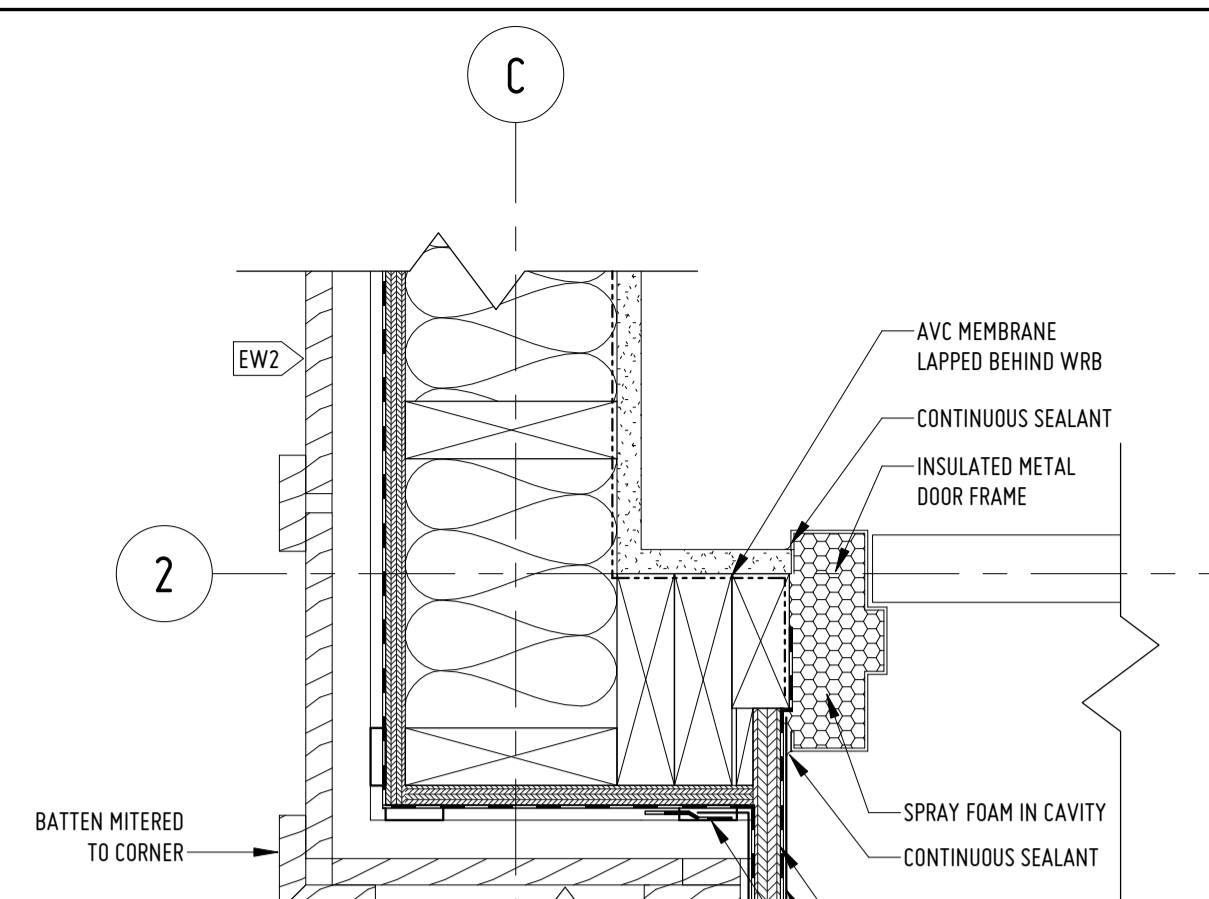
WALL SECTIONS

Drawn NEL	Architect MMJ	Project No. 2021025	Drawing No. A-302
Scale 1:20	Date 12/01/21	6 OF 11	

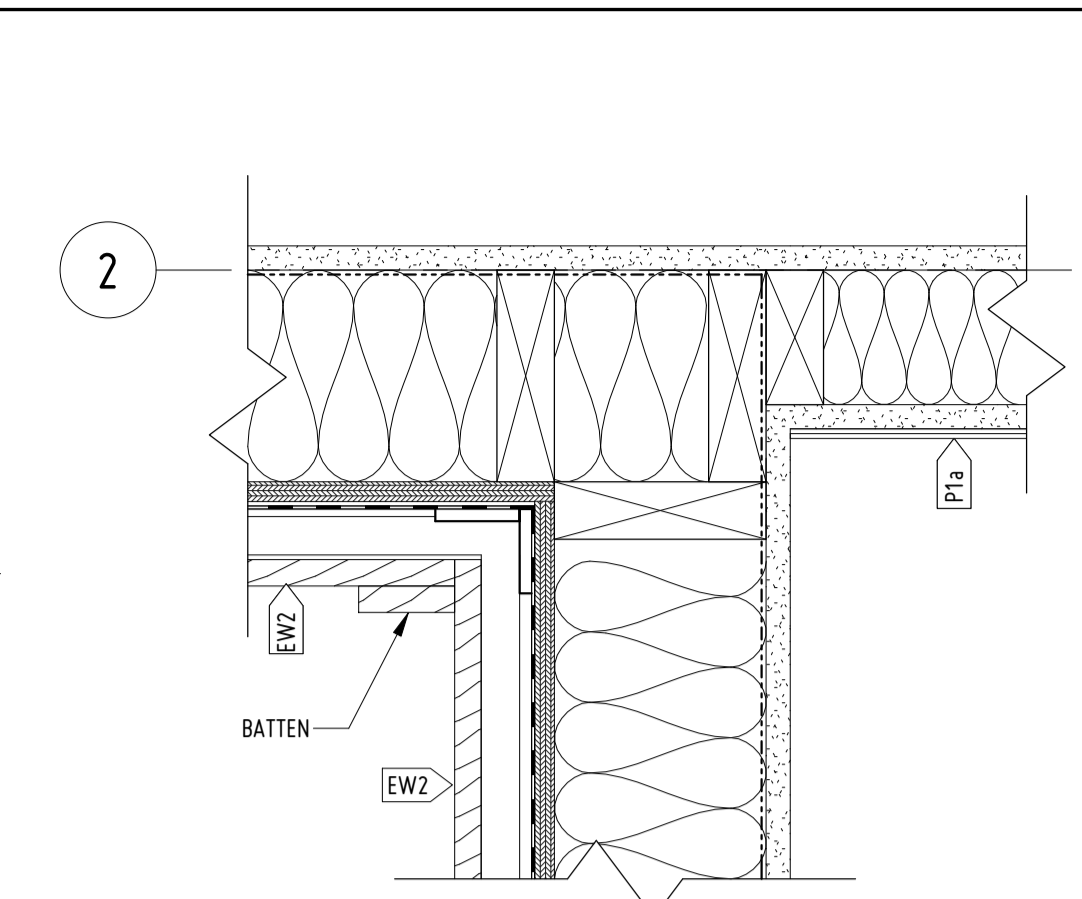




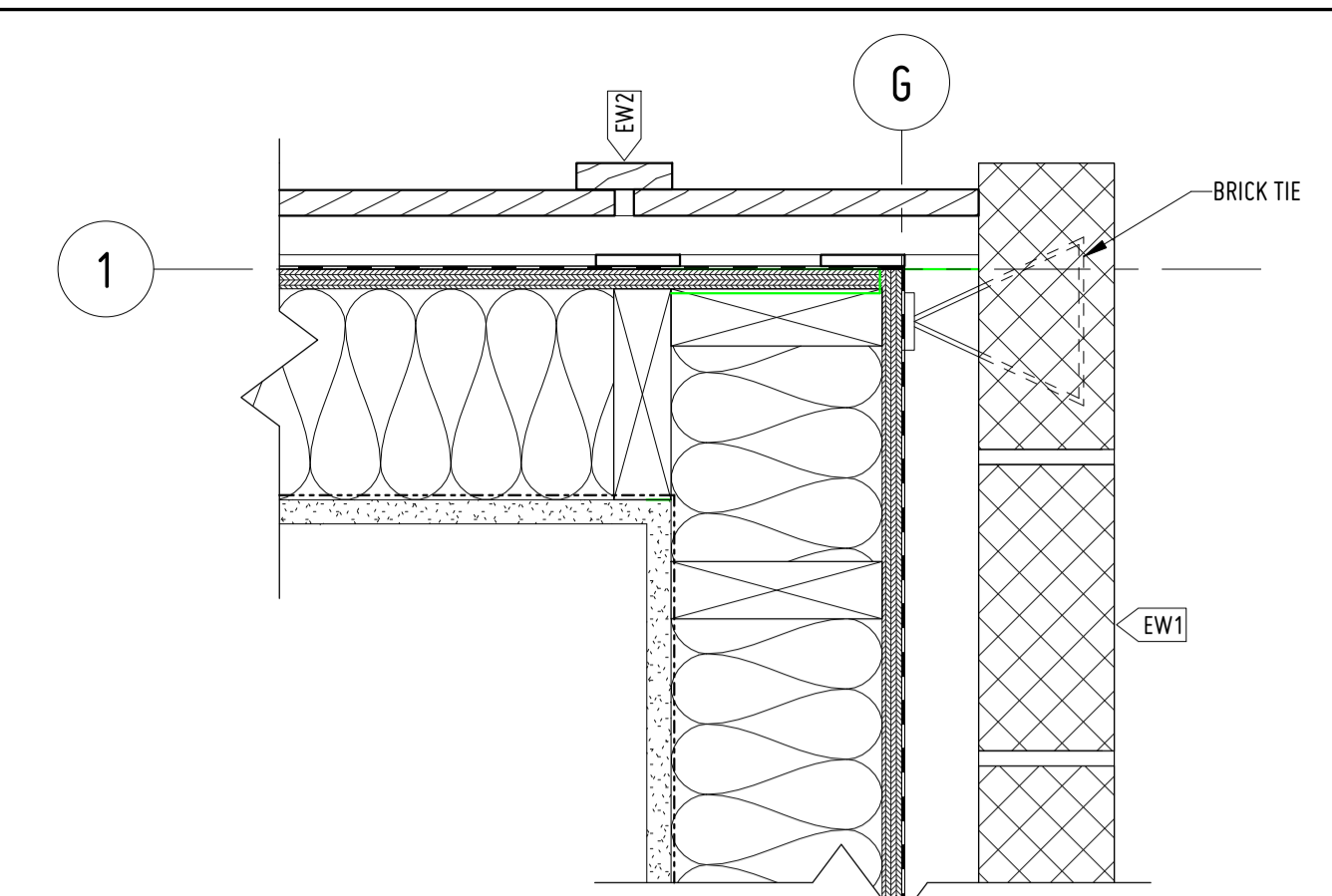
3 WINDOW JAMB  
1:5  
0 50 100 250 mm



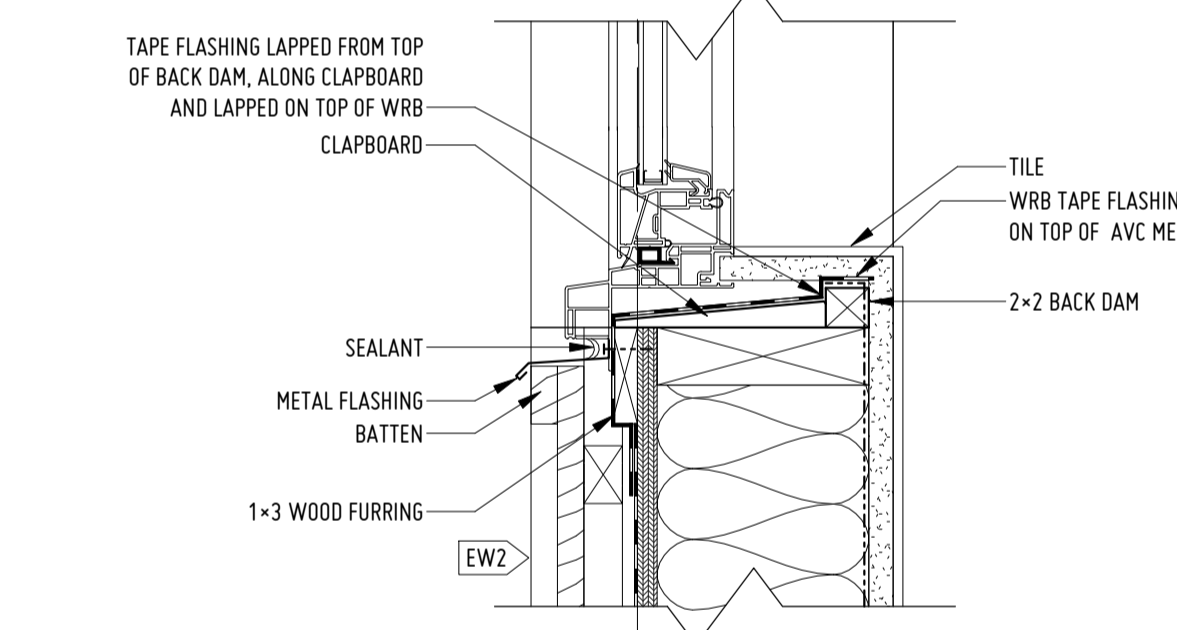
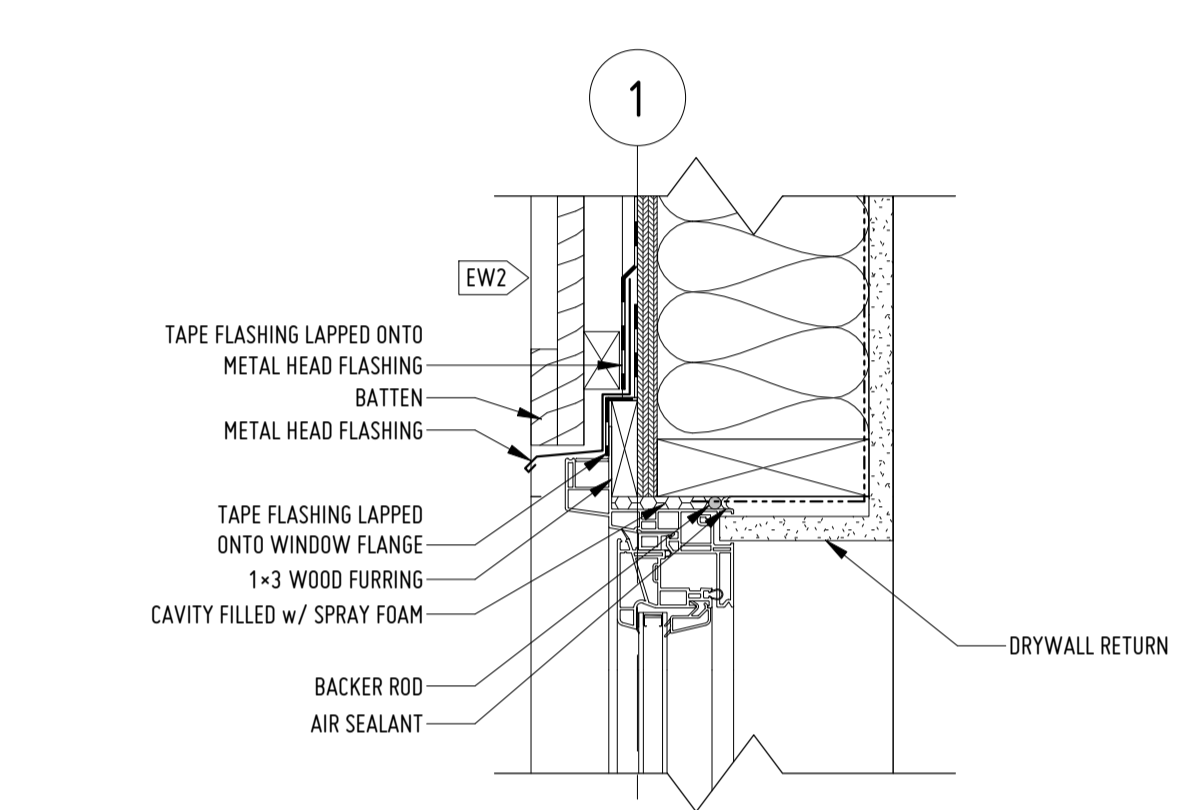
2 DOOR JAMB & OUTSIDE CORNER  
1:5  
0 50 100 250 mm



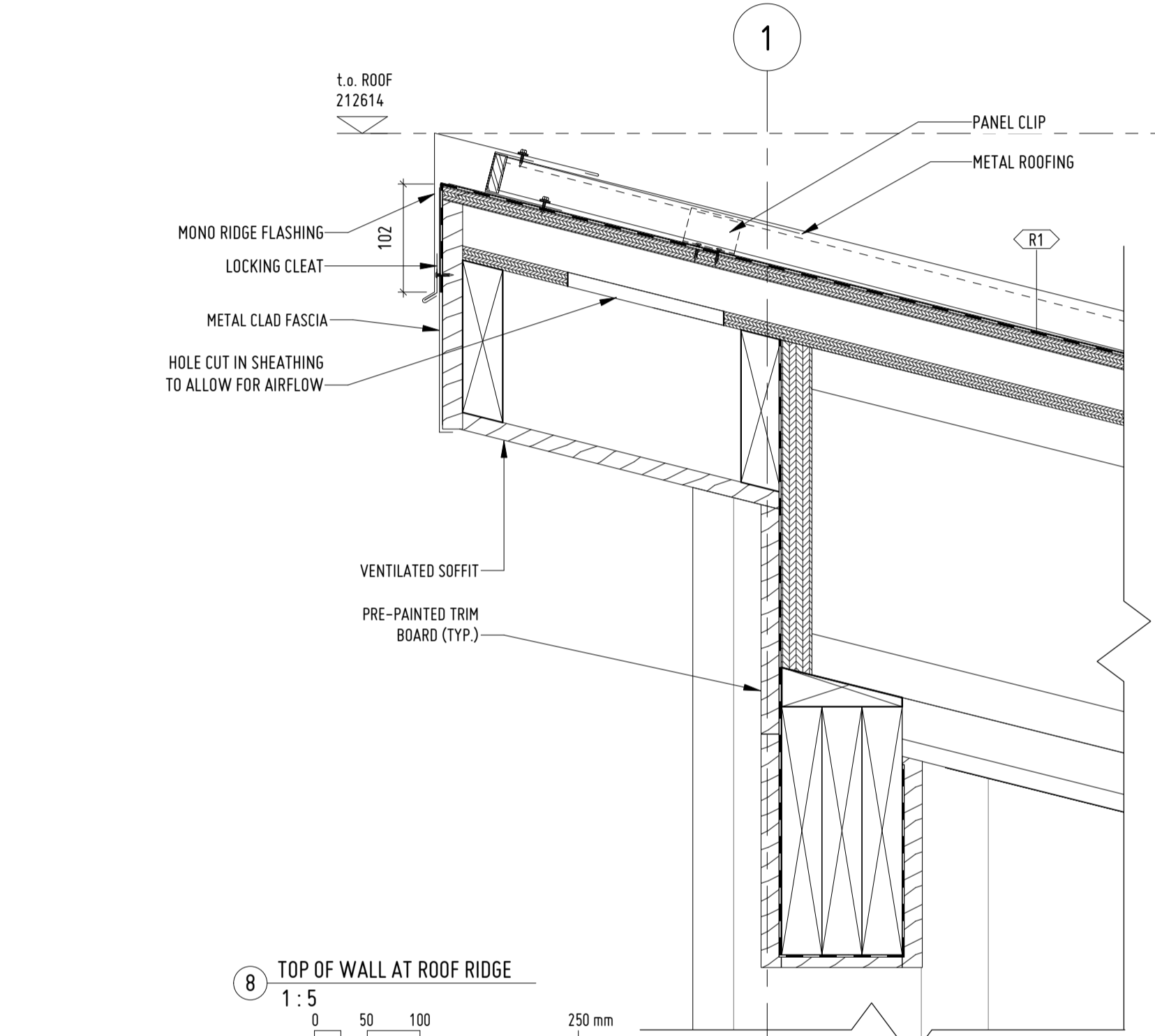
2 INSIDE CORNER  
1:5  
0 50 100 250 mm



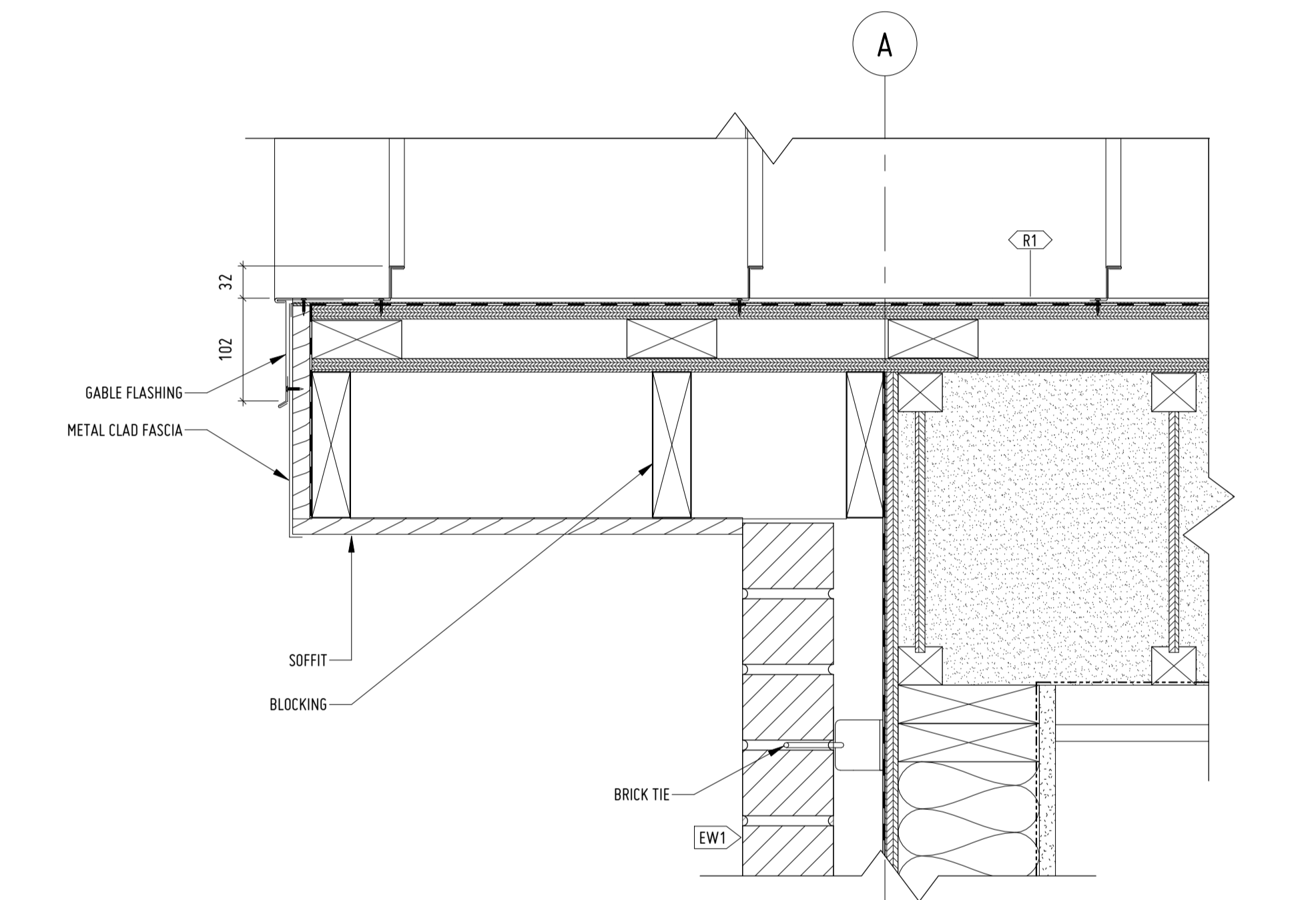
3 OUTSIDE CORNER @ BRICK VENEERED WALL  
1:5  
0 50 100 250 mm



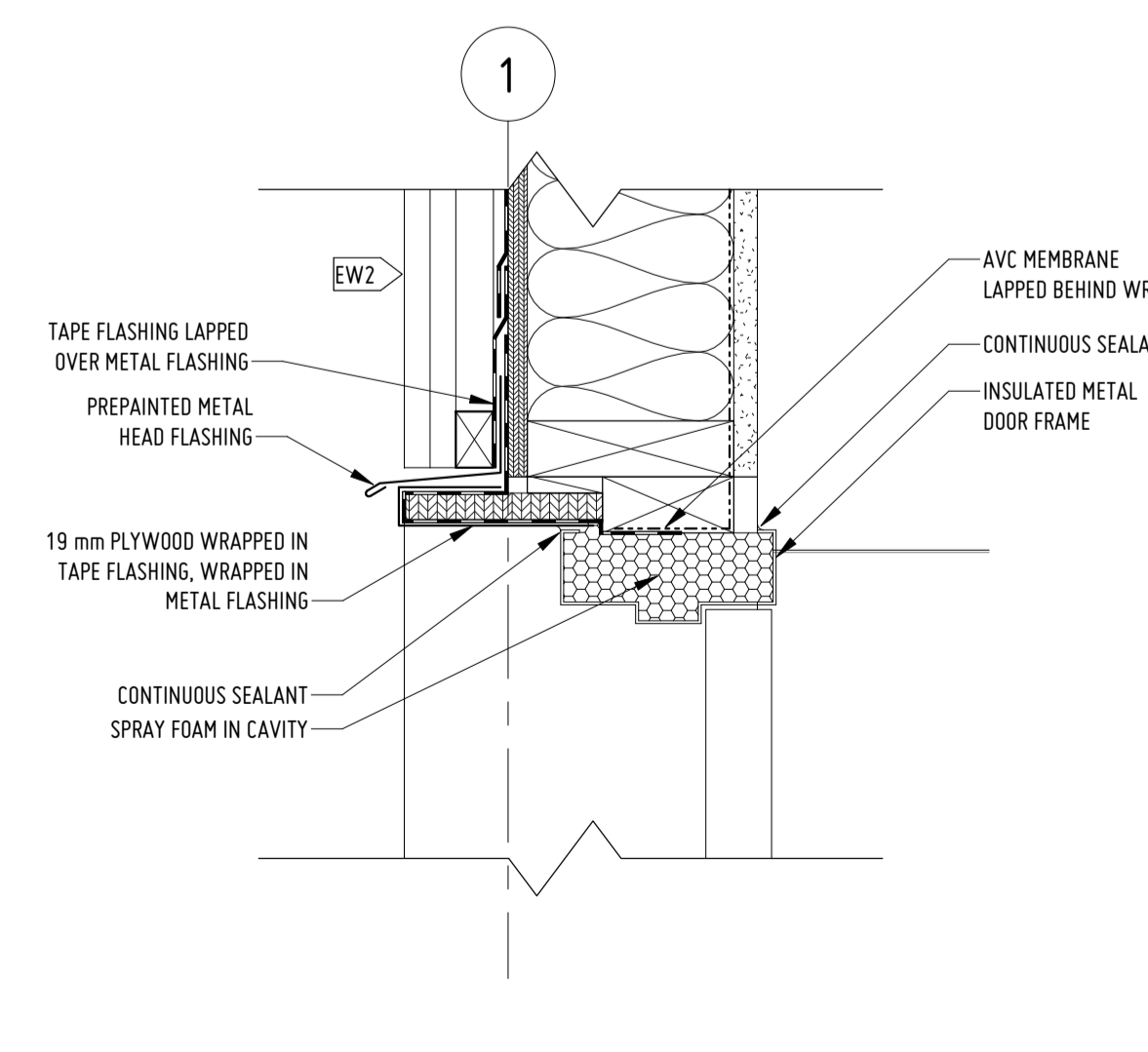
7 WINDOW HEAD & SILL  
1:5  
0 50 100 250 mm



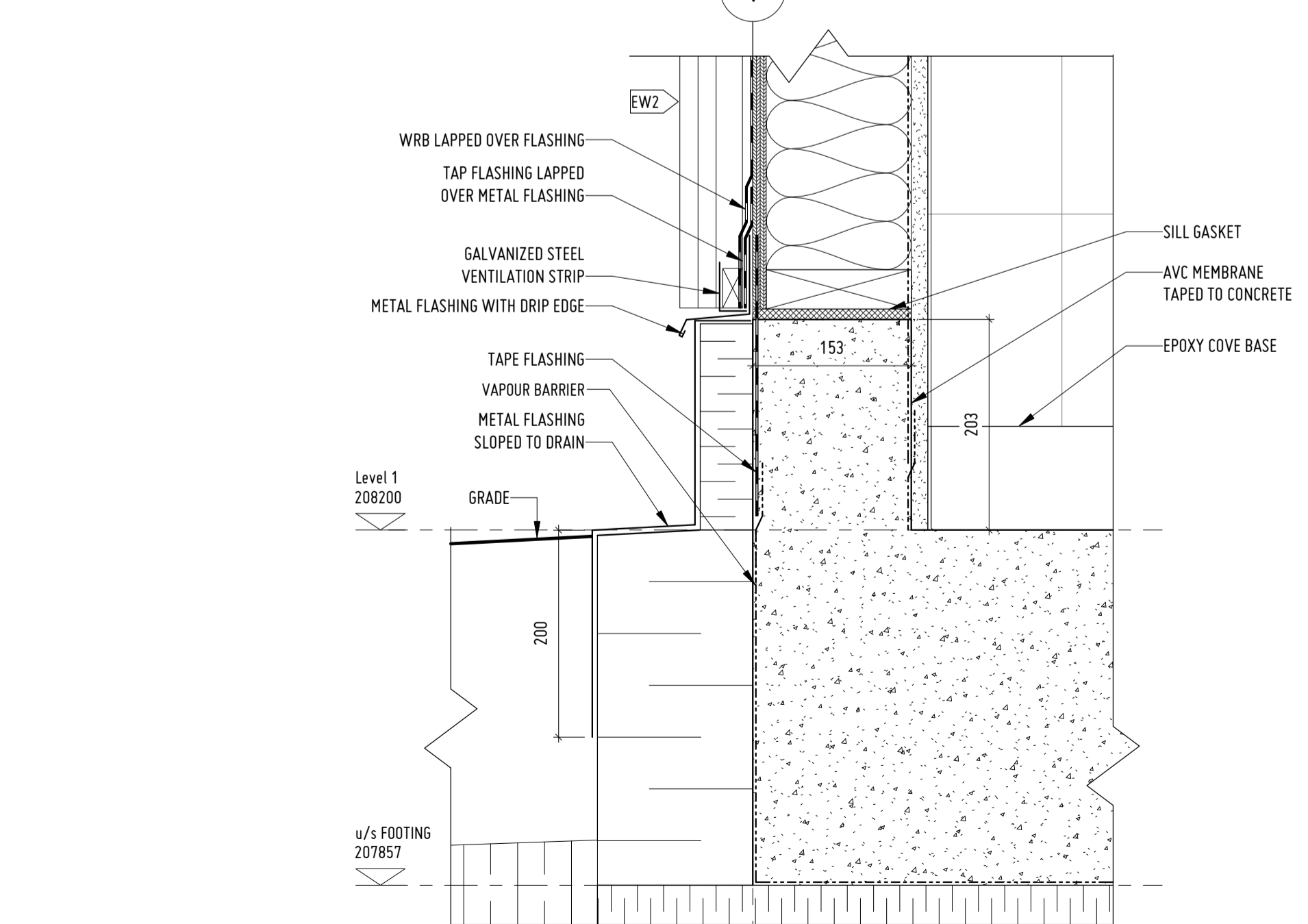
8 TOP OF WALL AT ROOF RIDGE  
1:5  
0 50 100 250 mm



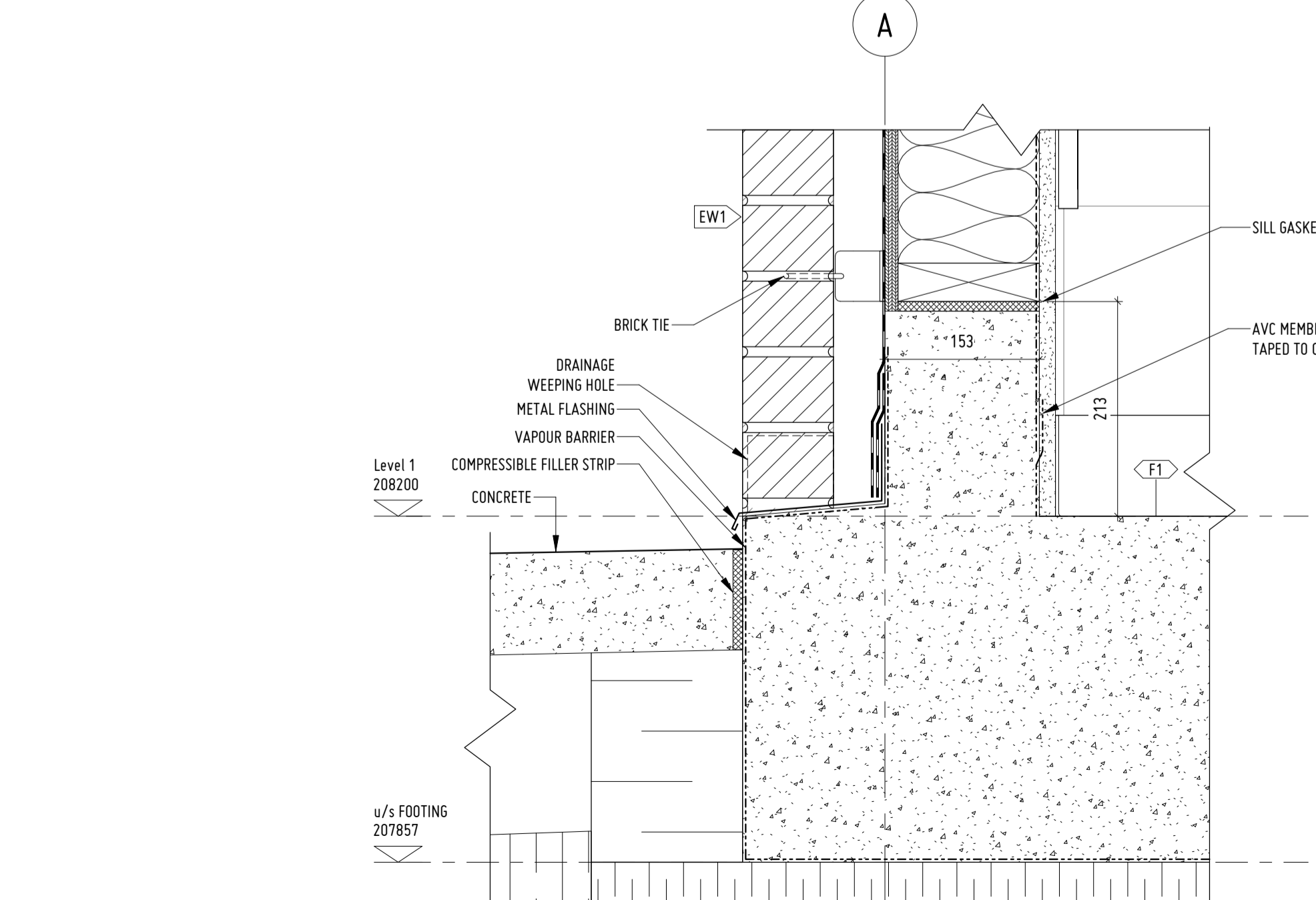
6 TOP OF BRICK VENEER WALL AT EAVE  
1:5  
0 50 100 250 mm



10 DOOR HEAD  
1:5  
0 50 100 250 mm



9 BASE OF WALL AT BOARD & BATTEN  
1:5  
0 50 100 250 mm

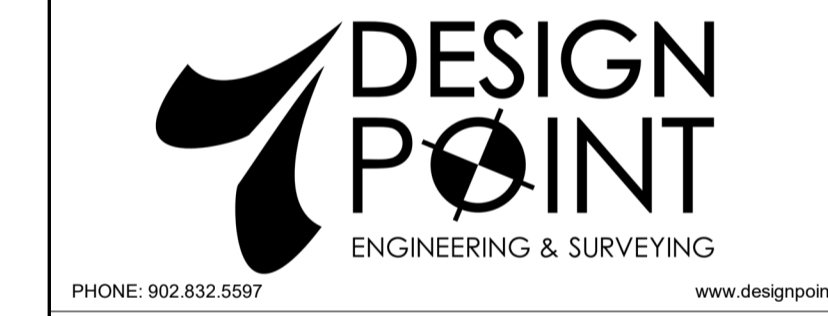


4 BASE OF BRICK VENEER WALL  
1:5  
0 50 100 250 mm

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PROJECT DESCRIPTION

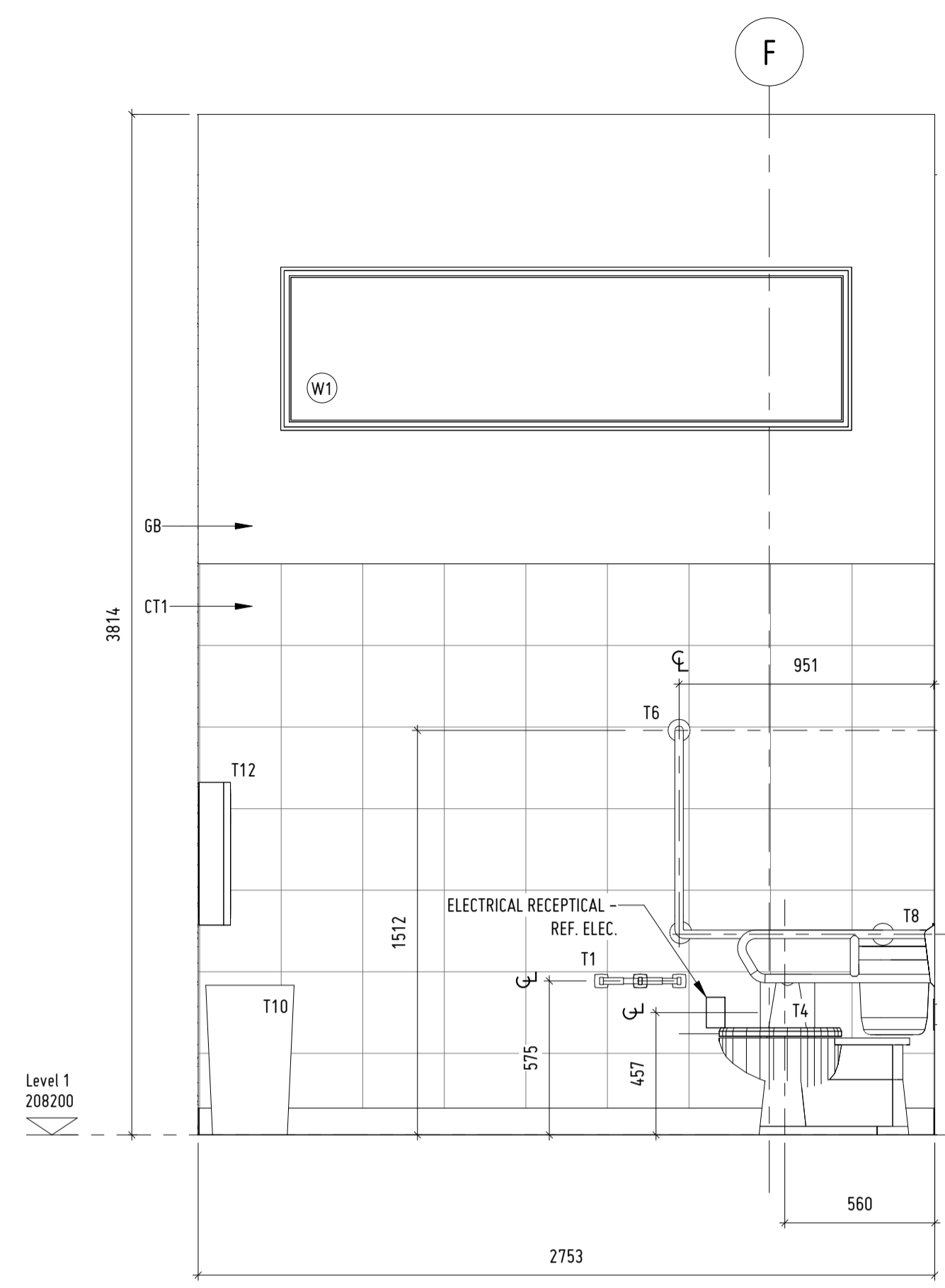
580 N RIVER ROAD

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SHEET DESCRIPTION

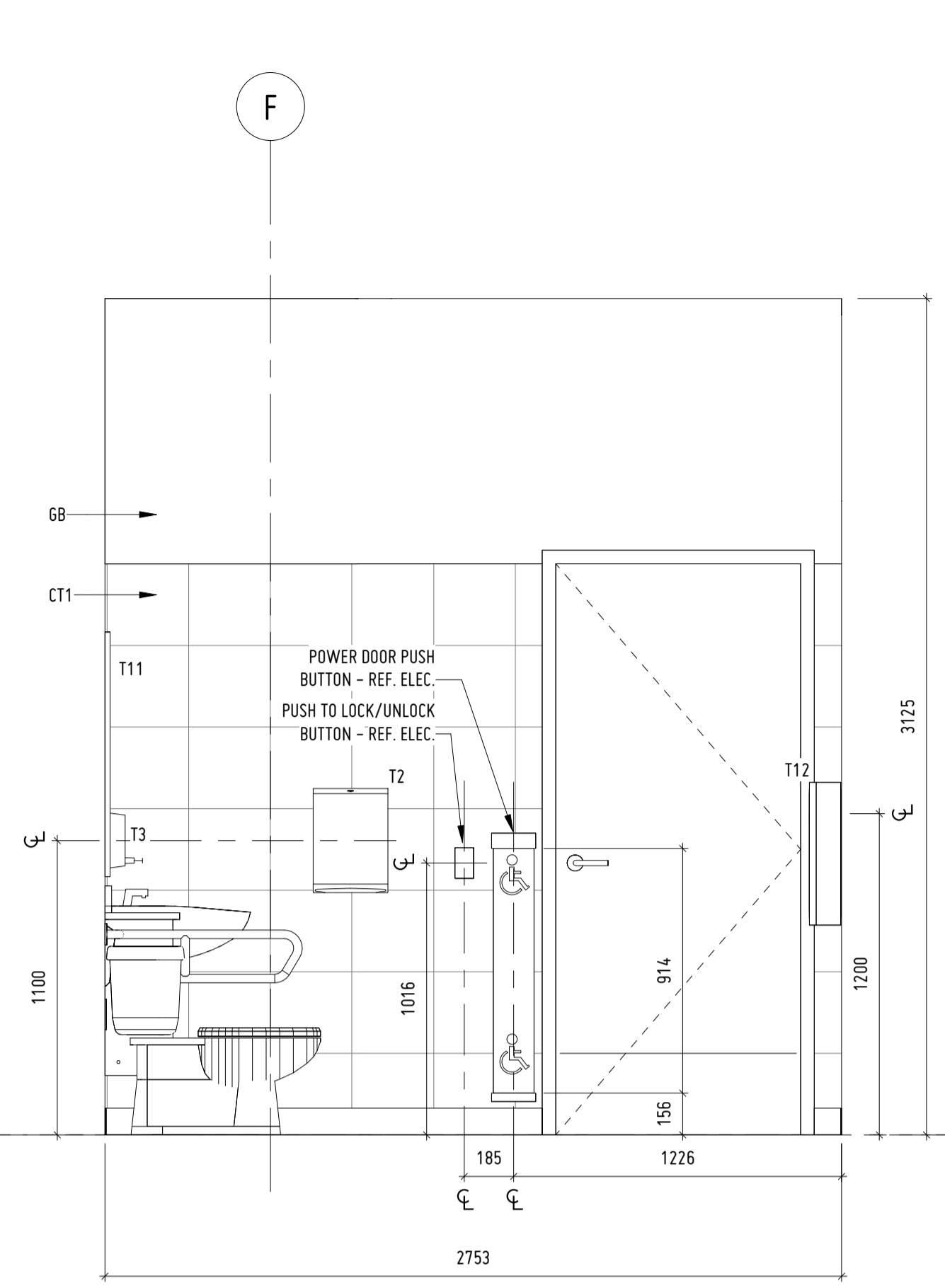
PLAN & SECTION DETAILS

Drawn NEL	Architect MMJ	Project No. 2021025	Drawing No. A-304
Scale 1:5	Date 12/01/21	7 OF 11	



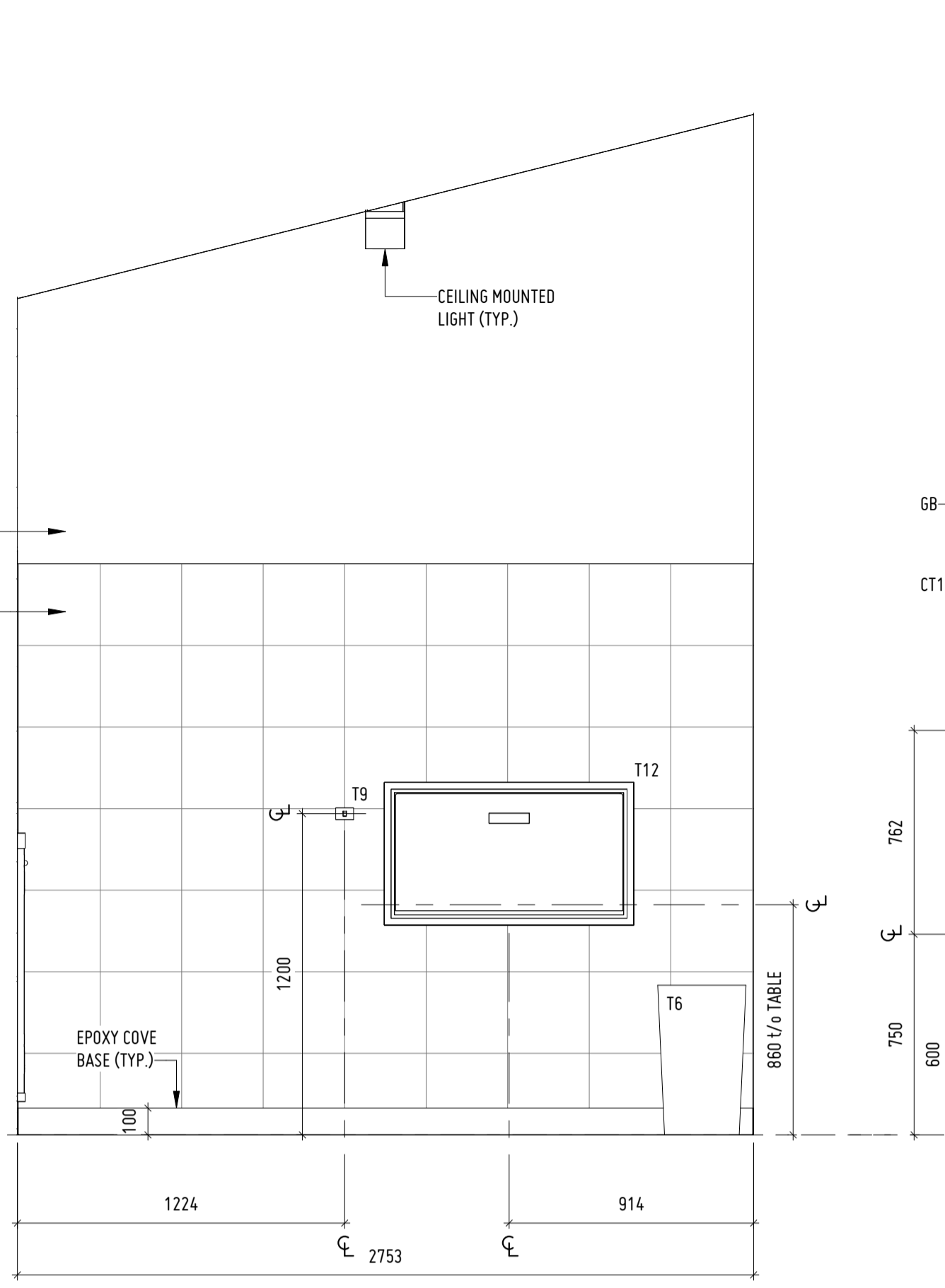
1 B/F WASHROOM 106 NORTH

1:20  
0 200 500 1000 mm



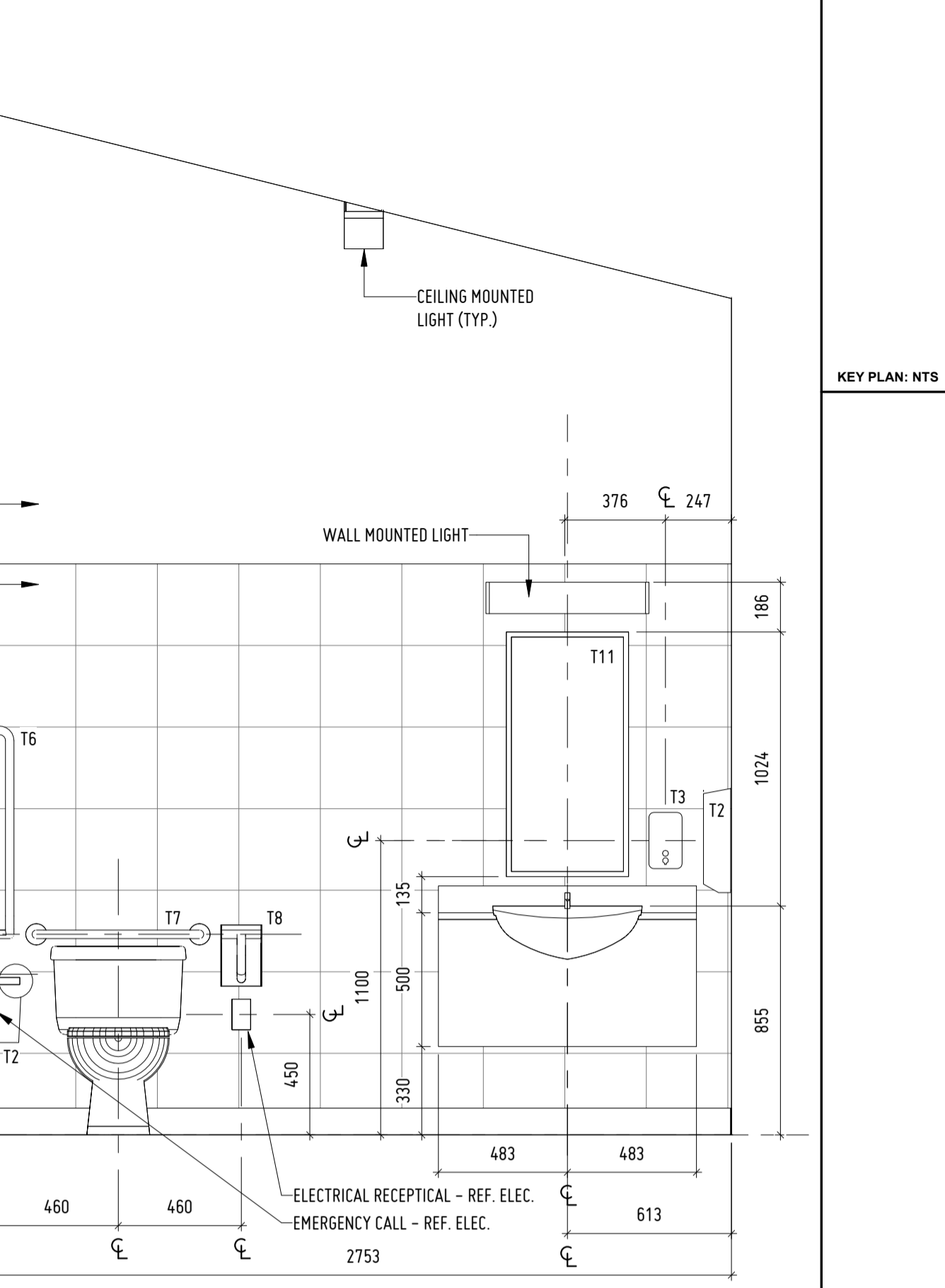
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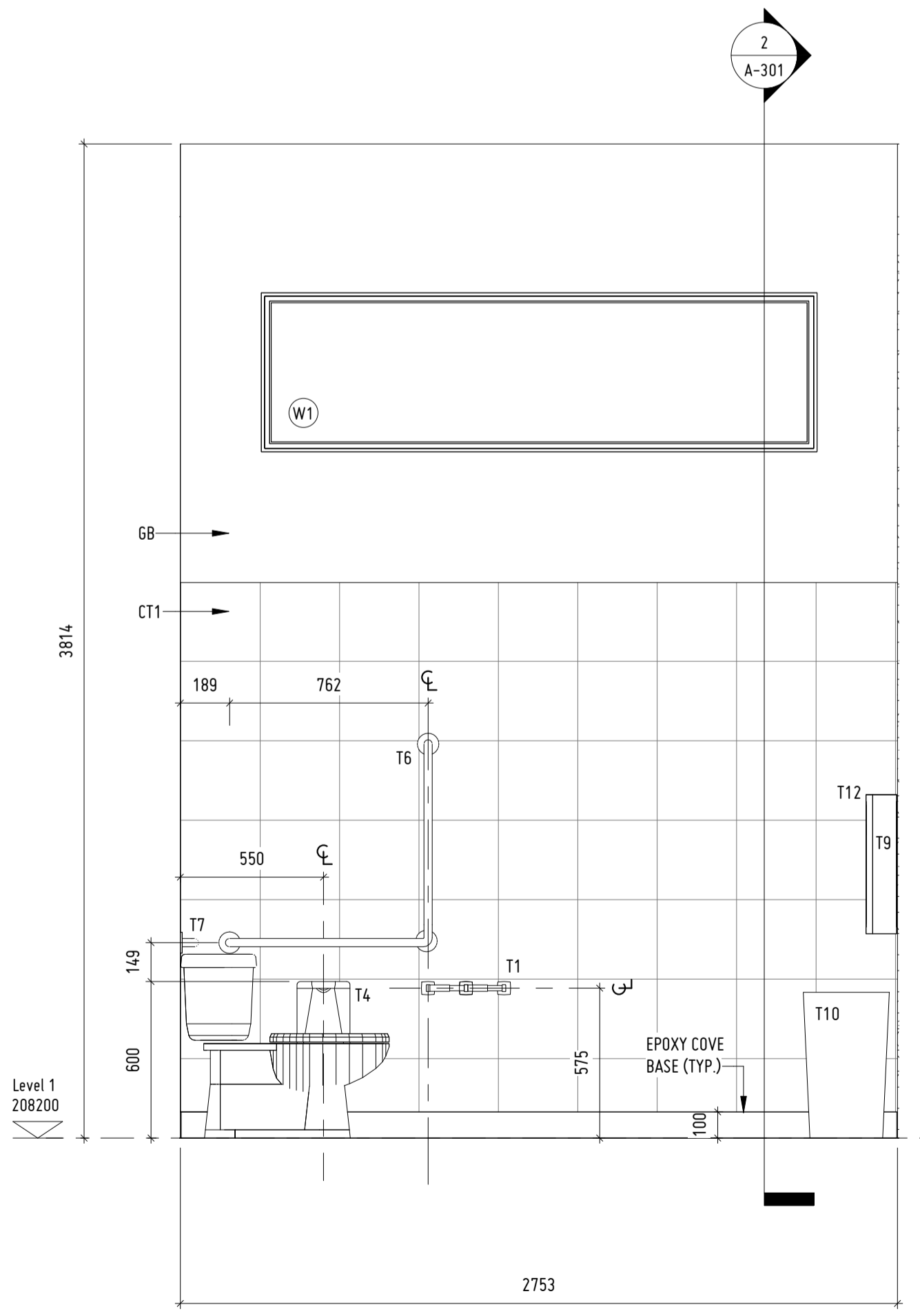
3 BF W/C 106 WEST

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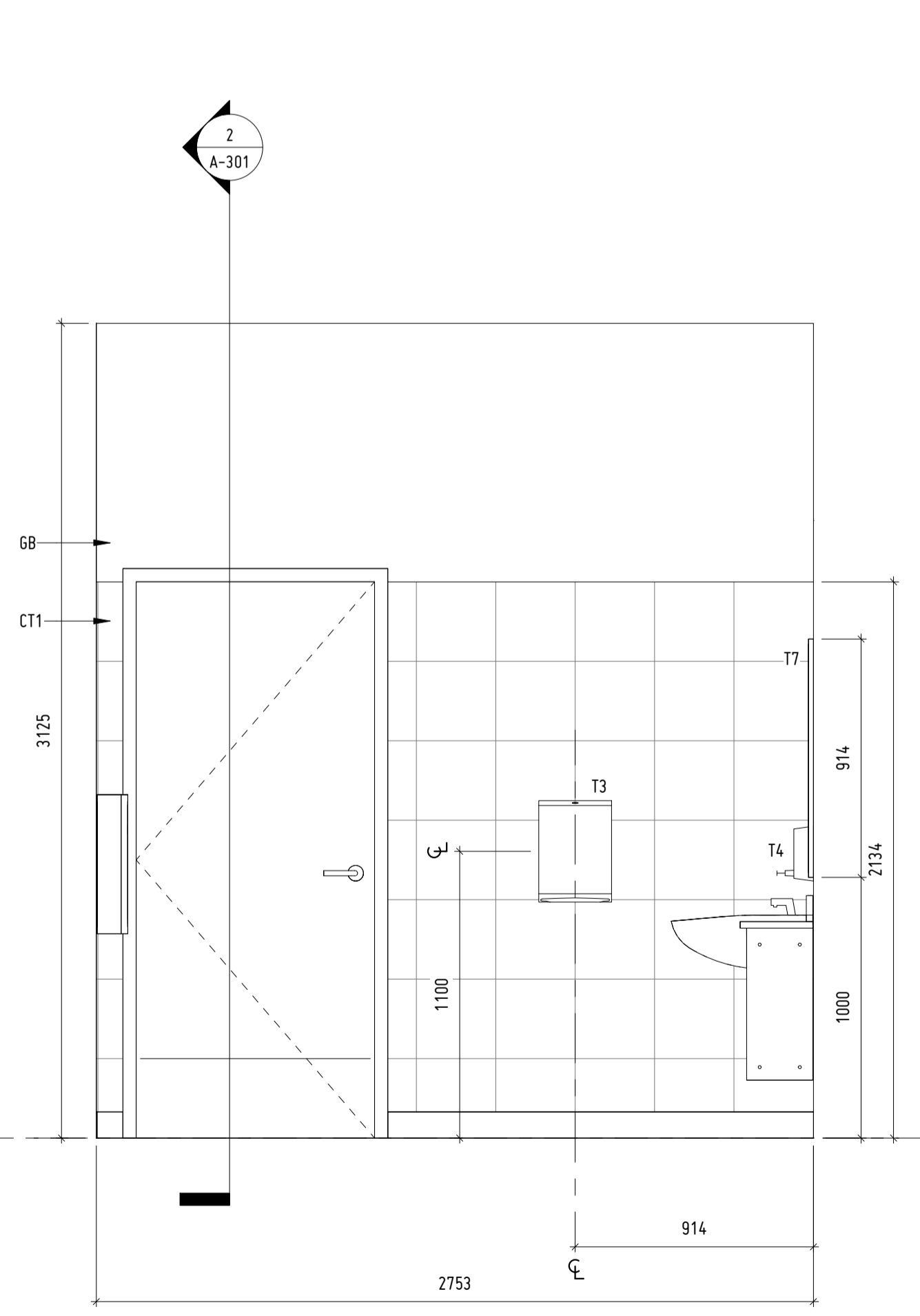
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1:20  
0 200 500 1000 mm



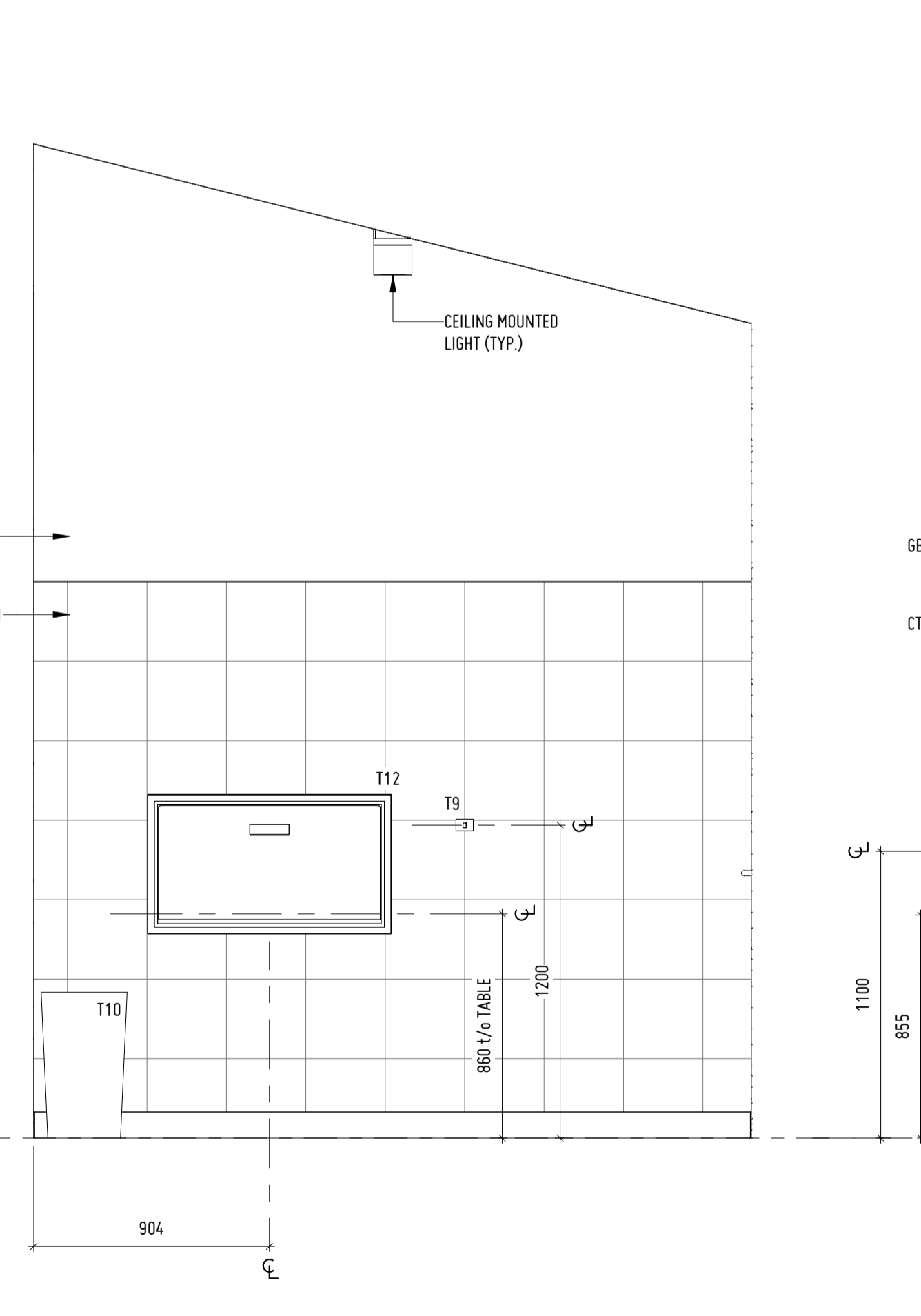
5 TYP. W/C 105 NORTH

1:20  
0 200 500 1000 mm



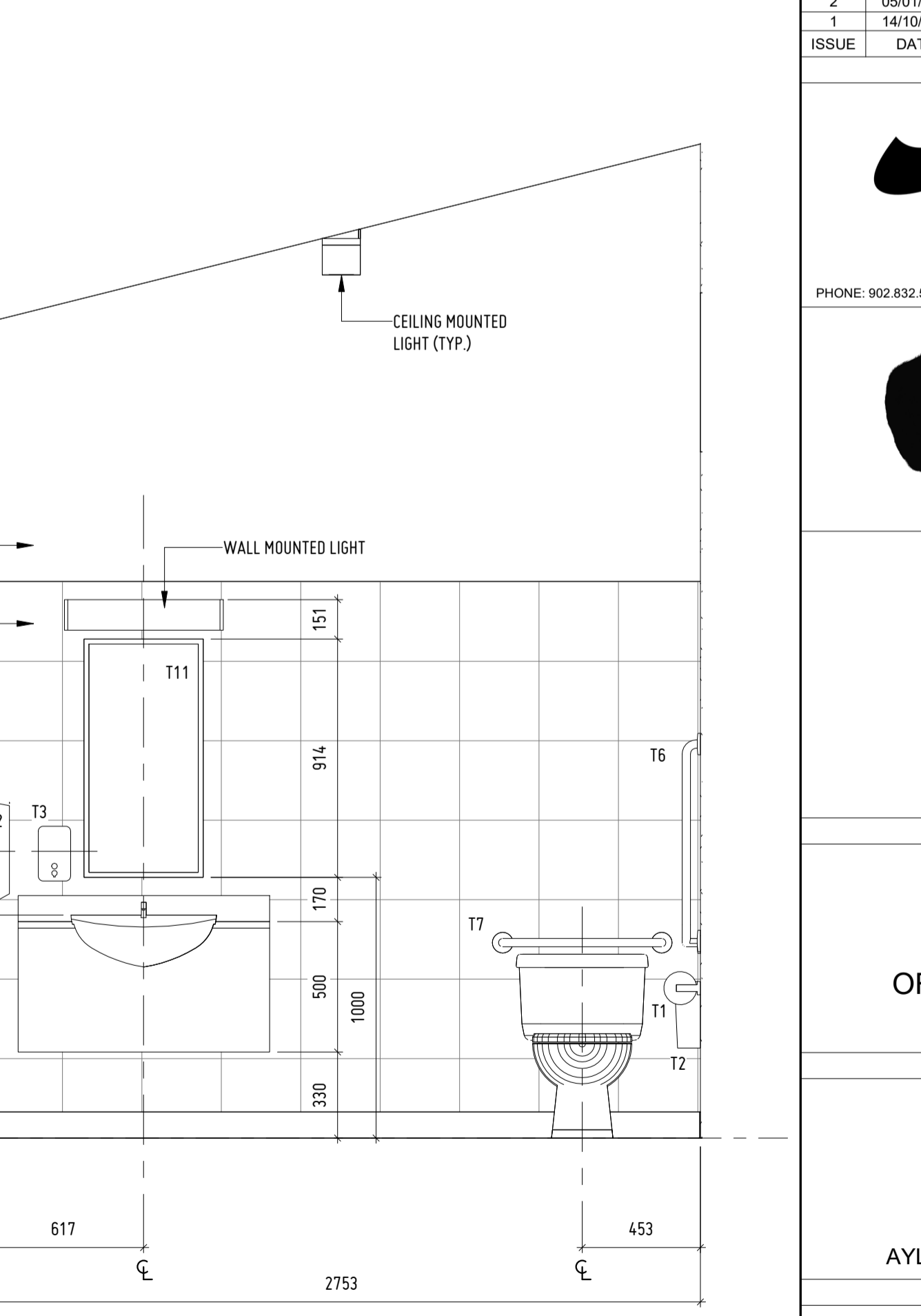
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0 200 500 1000 mm



7 TYP. W/C 105 EAST

1:20  
0 200 500 1000 mm



8 TYP. W/C 105 WEST

1:20  
0 200 500 1000 mm

KEY PLAN: NTS

ISSUE	DATE	DESCRIPTION
3	04/03/2022	ISSUED FOR TENDER
2	05/01/2022	ISSUED FOR 90% REVIEW
1	14/10/2021	ISSUED FOR 50% REVIEW

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MUNICIPALITY OF THE COUNTY OF KINGS

PROJECT DESCRIPTION

580 N RIVER ROAD

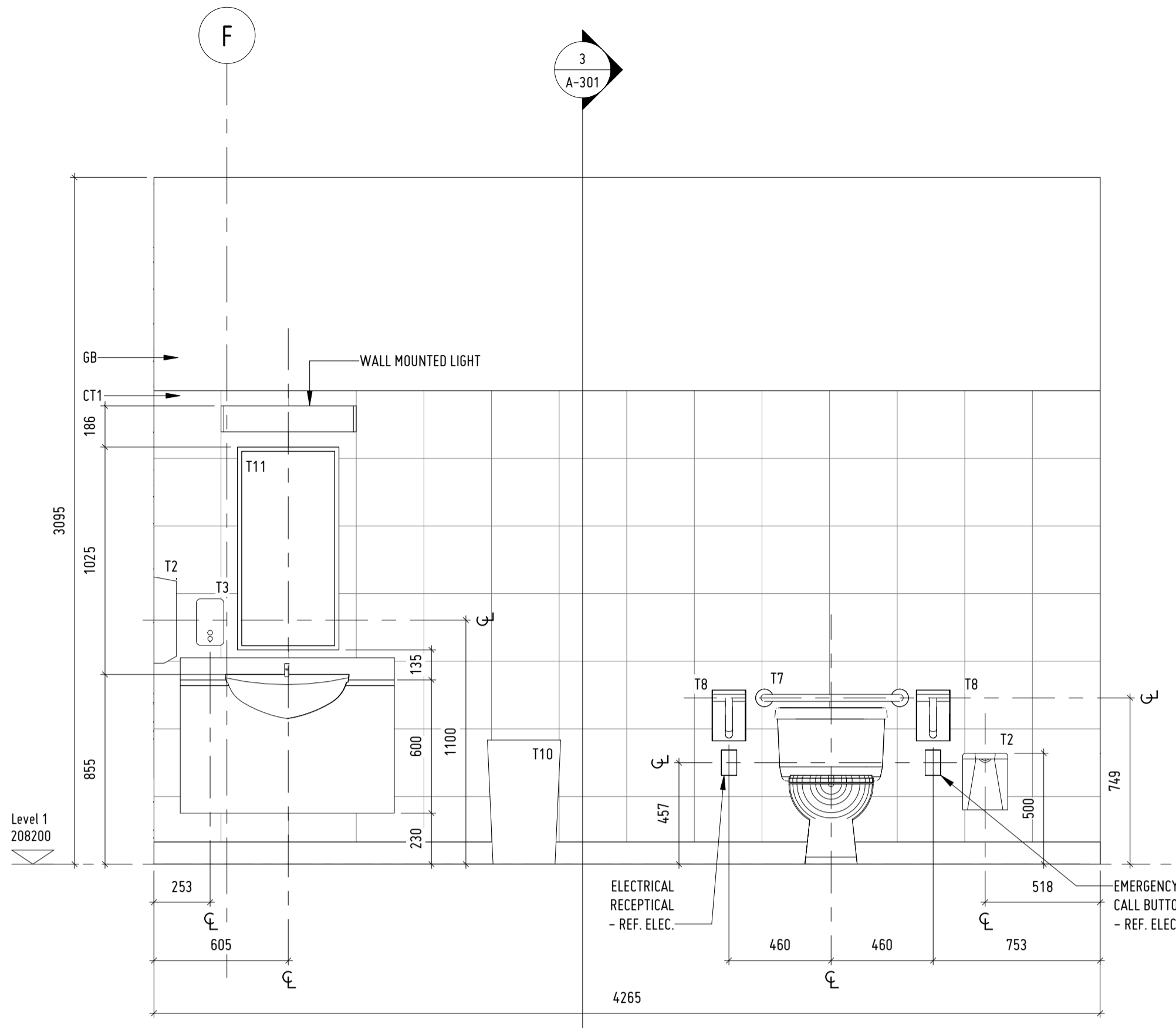
AYLESFORD, NOVA SCOTIA, B0P 1C0

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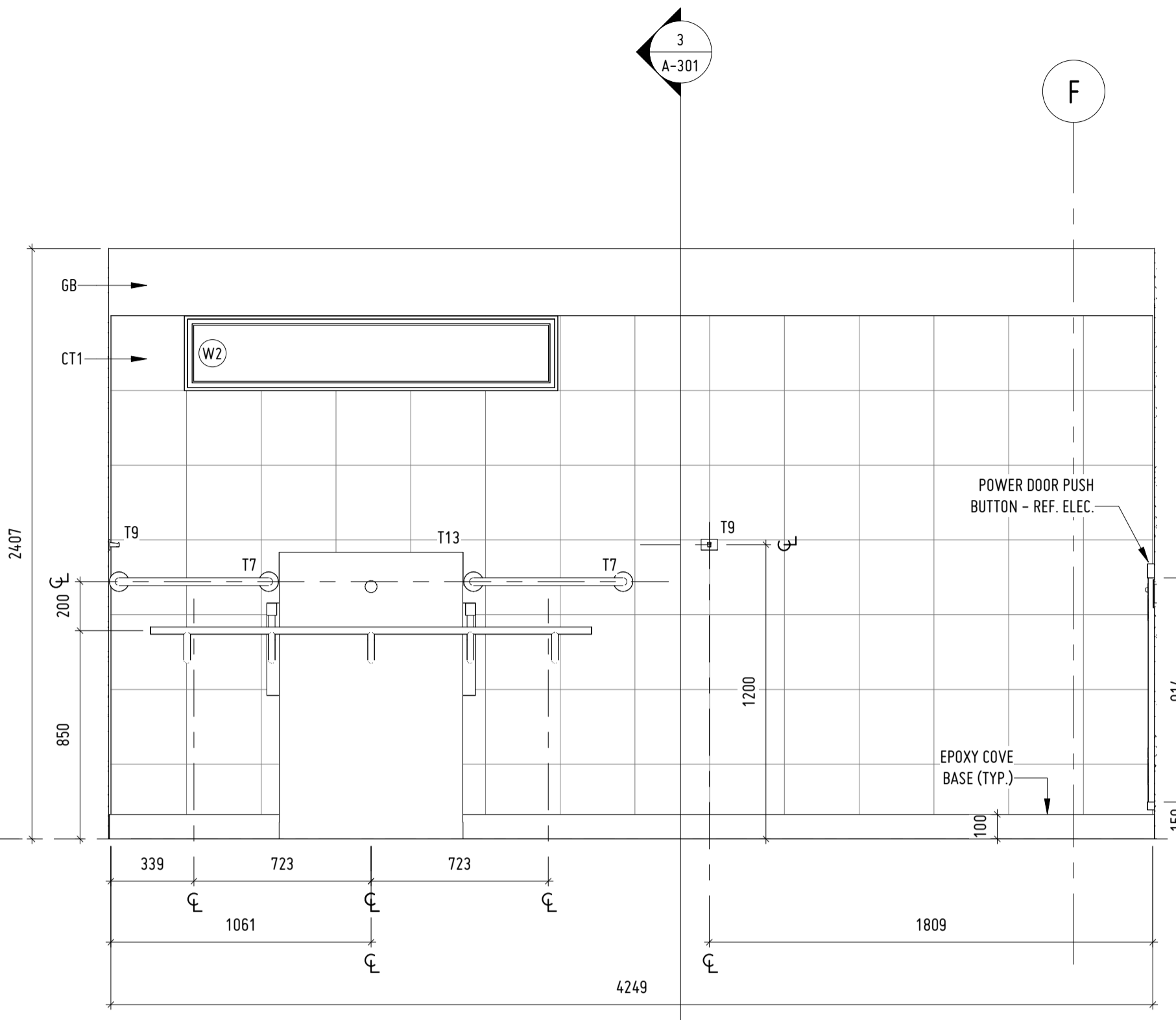
INTERIOR ELEVATIONS

Drawn NEL	Architect MMJ	Project No. 2021025	Drawing No. A-601
Scale 1:20	Date 10/05/21	9 OF 11	

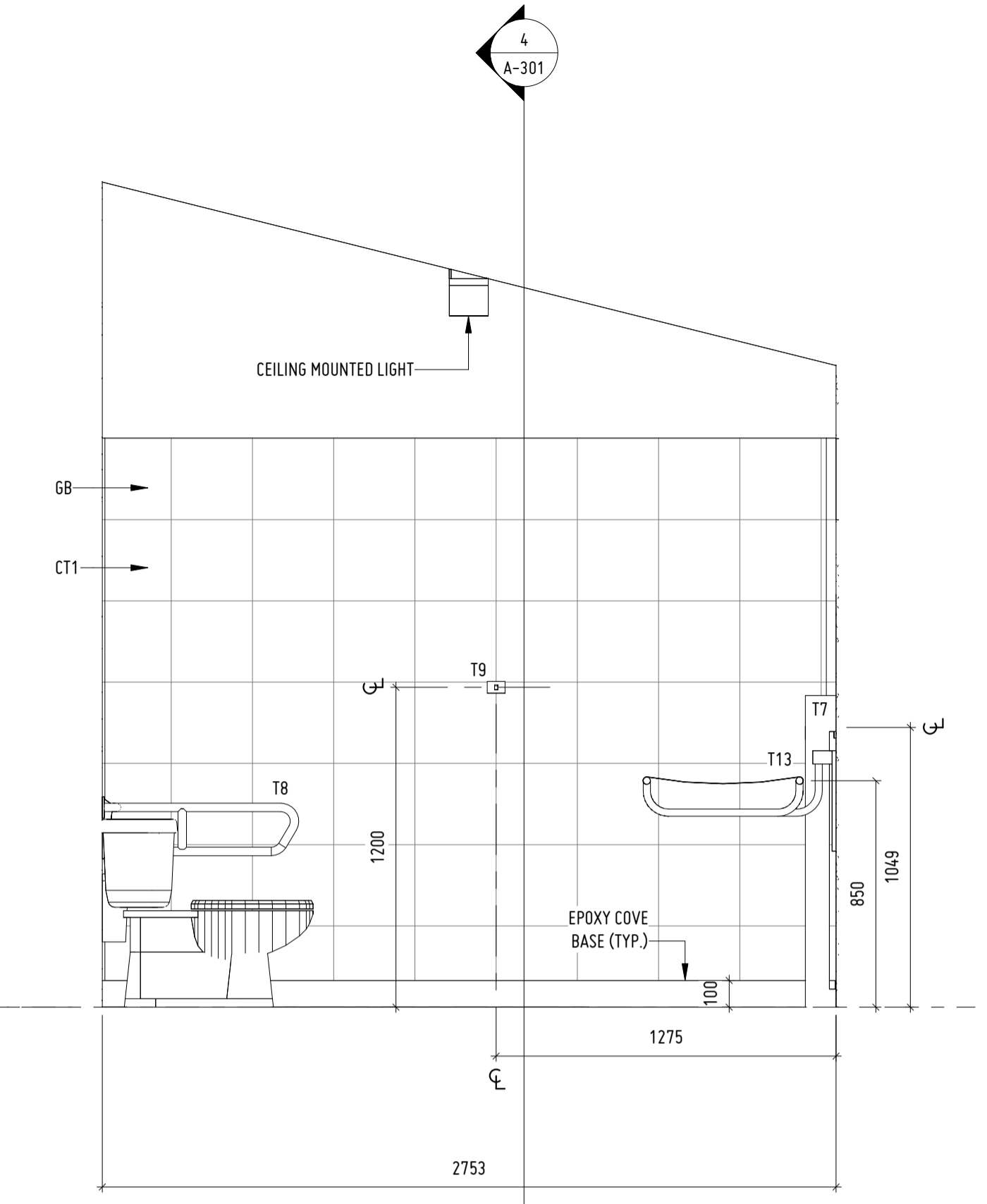




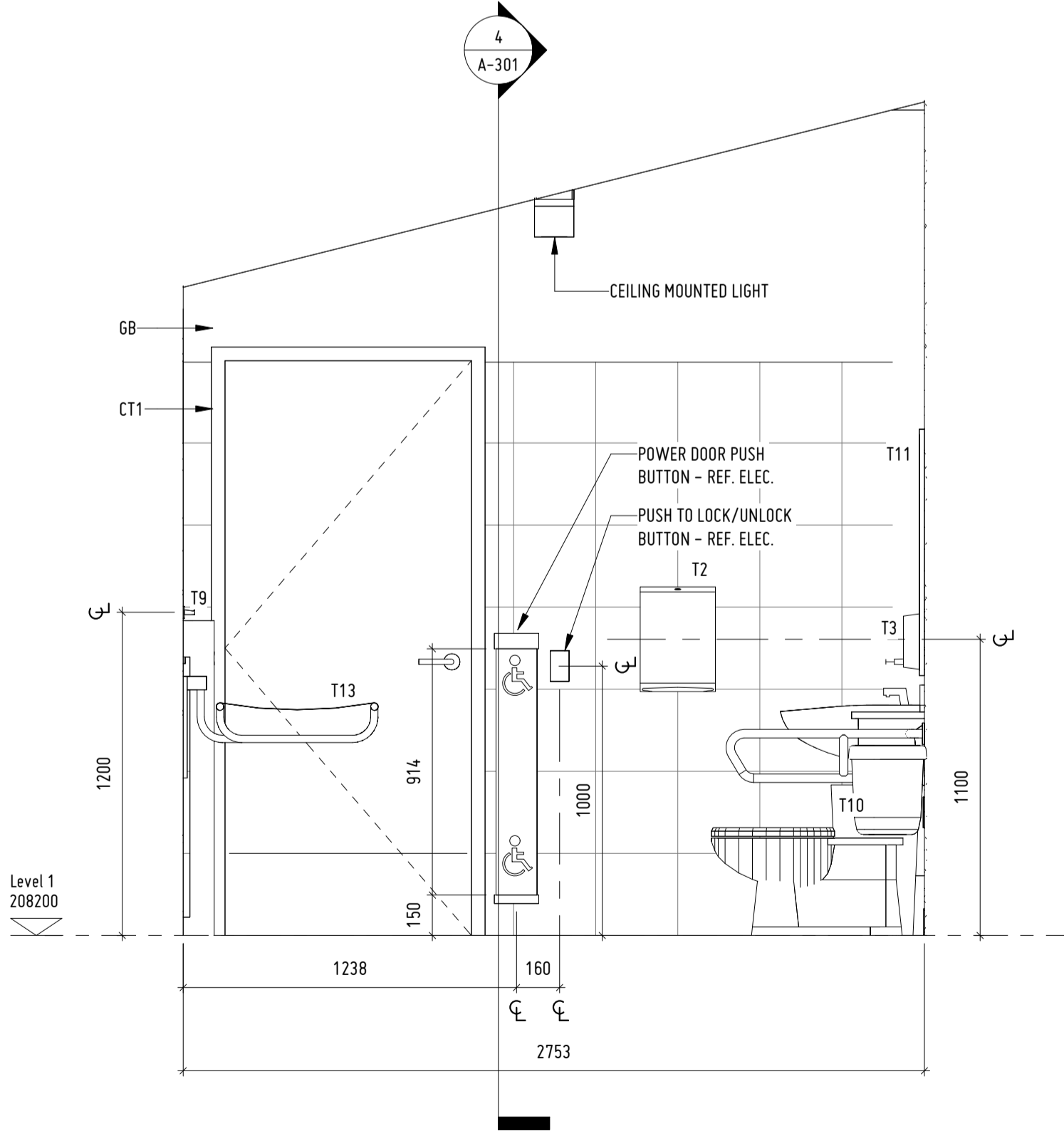
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1:20



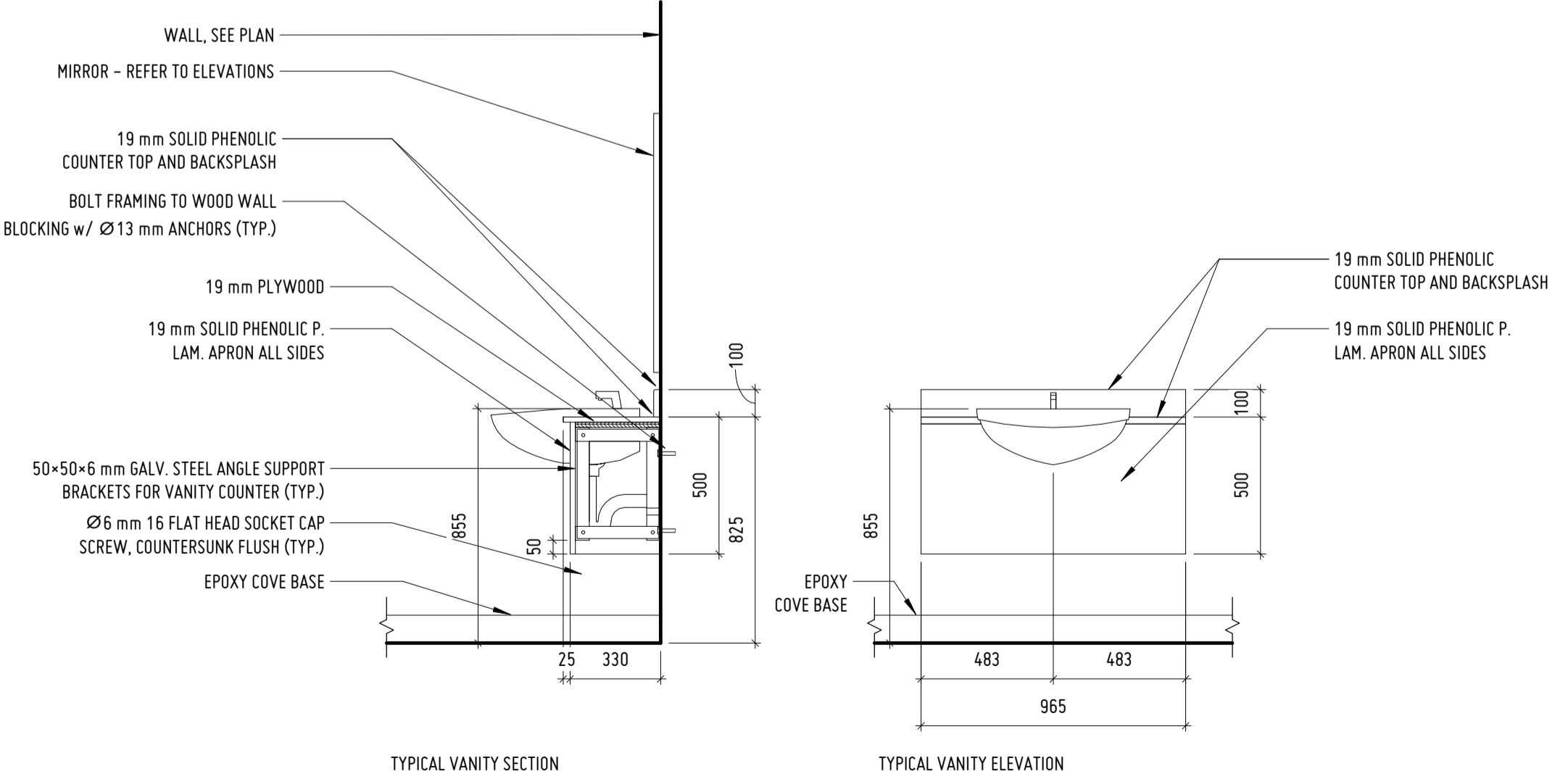
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1:20



3 BF W/C 108 - EAST  
1:20



4 BF W/C 108 - WEST  
1:20



5 VANITY DETAIL  
1:20

KEY PLAN: NTS

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PROJECT DESCRIPTION

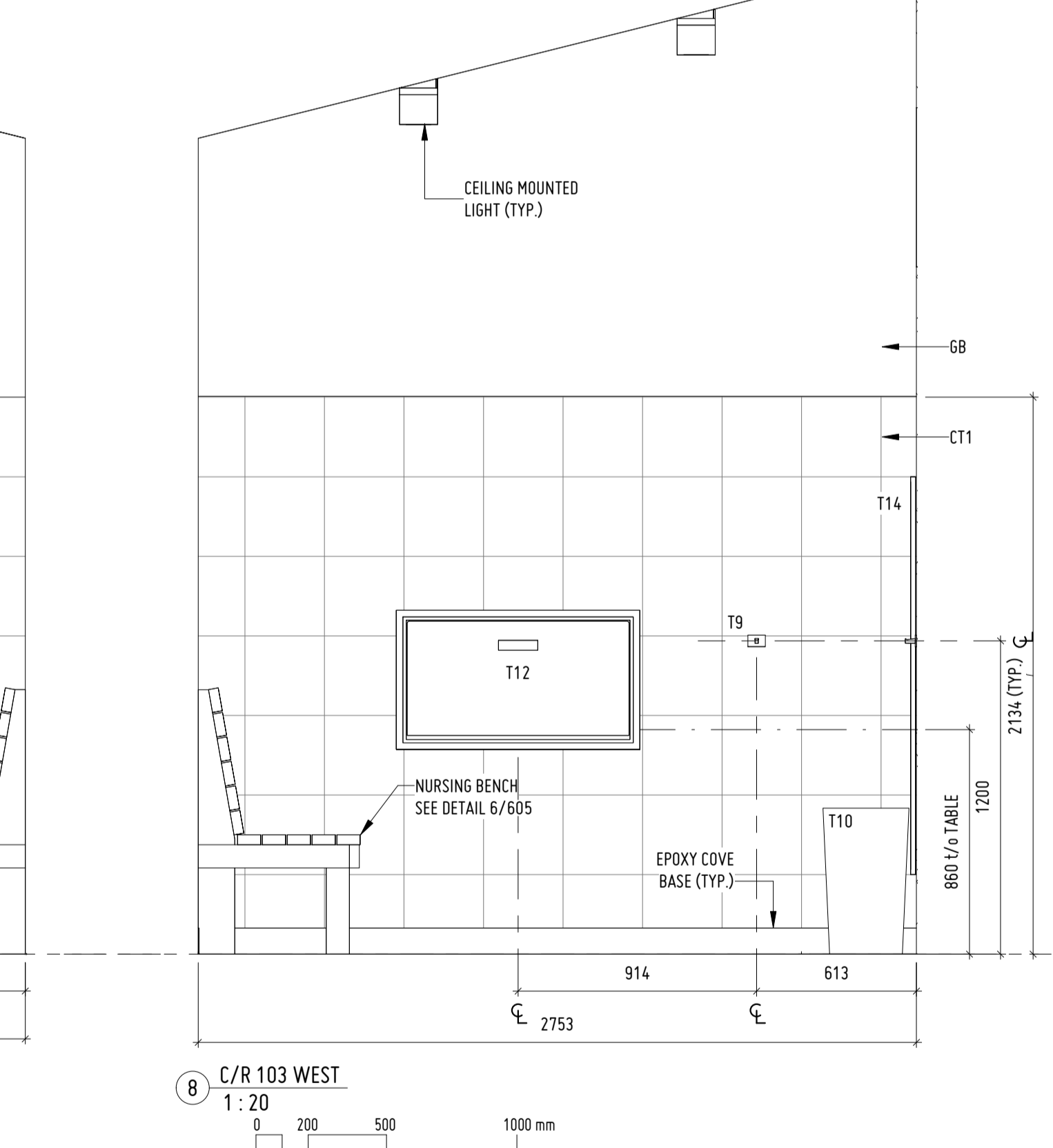
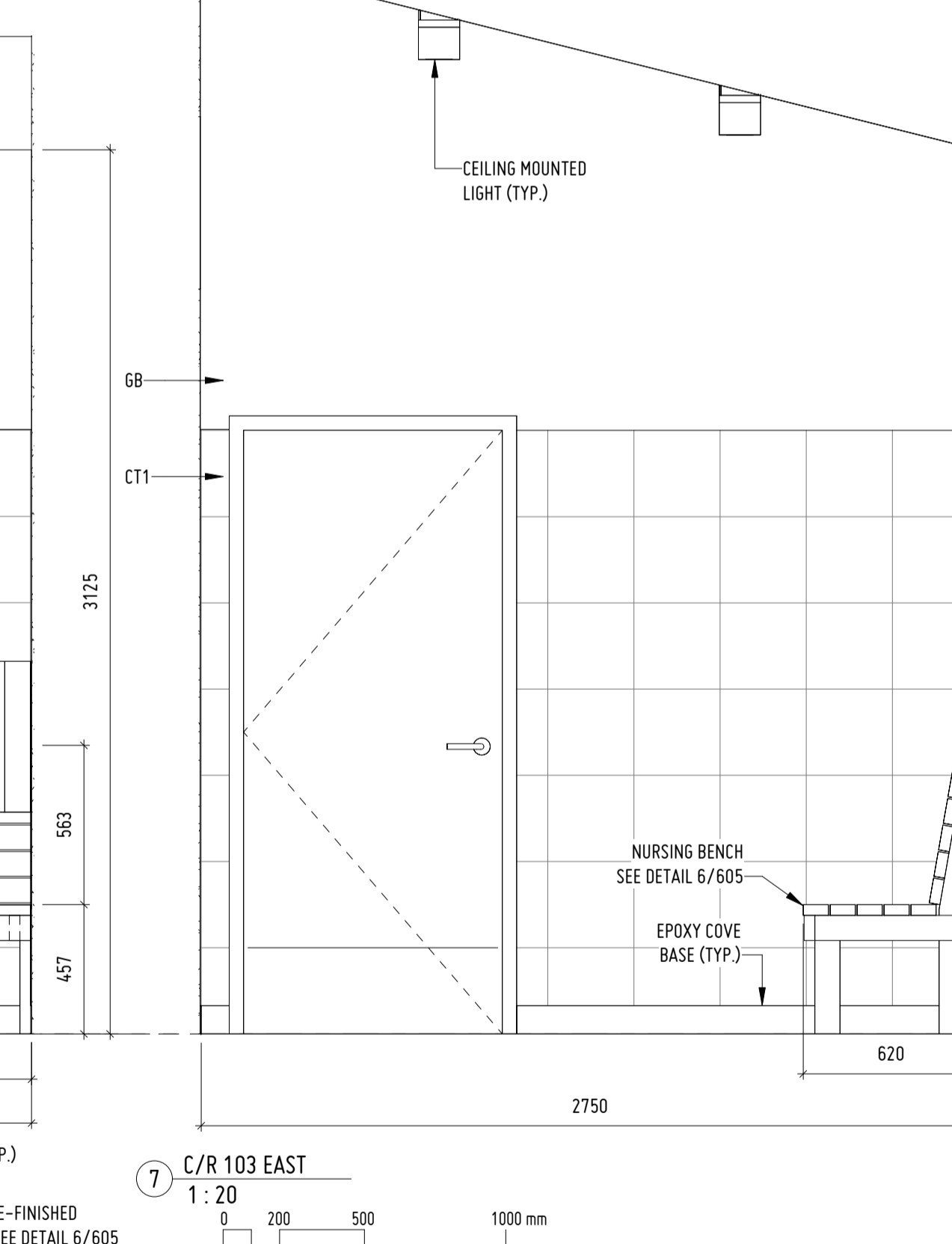
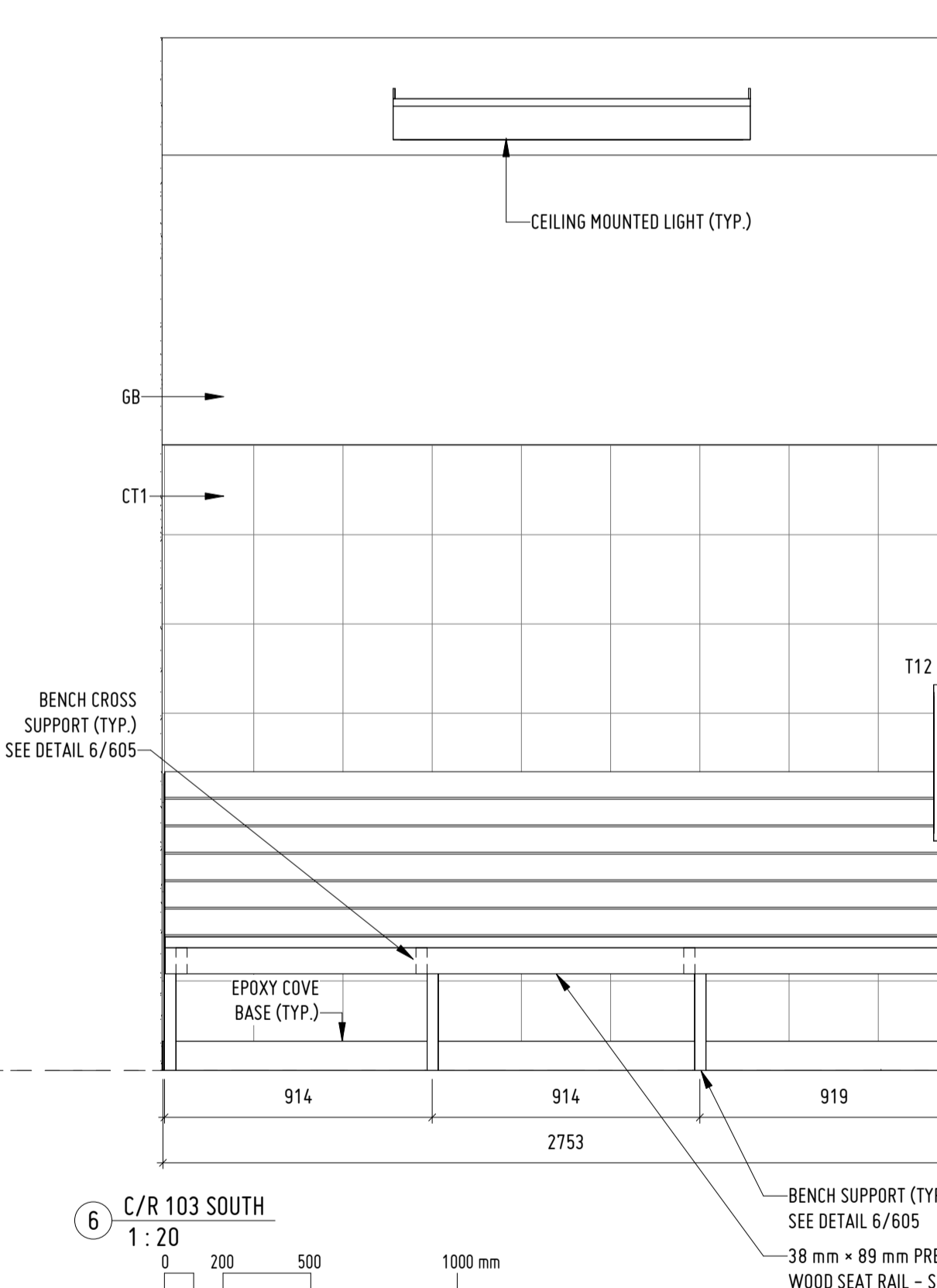
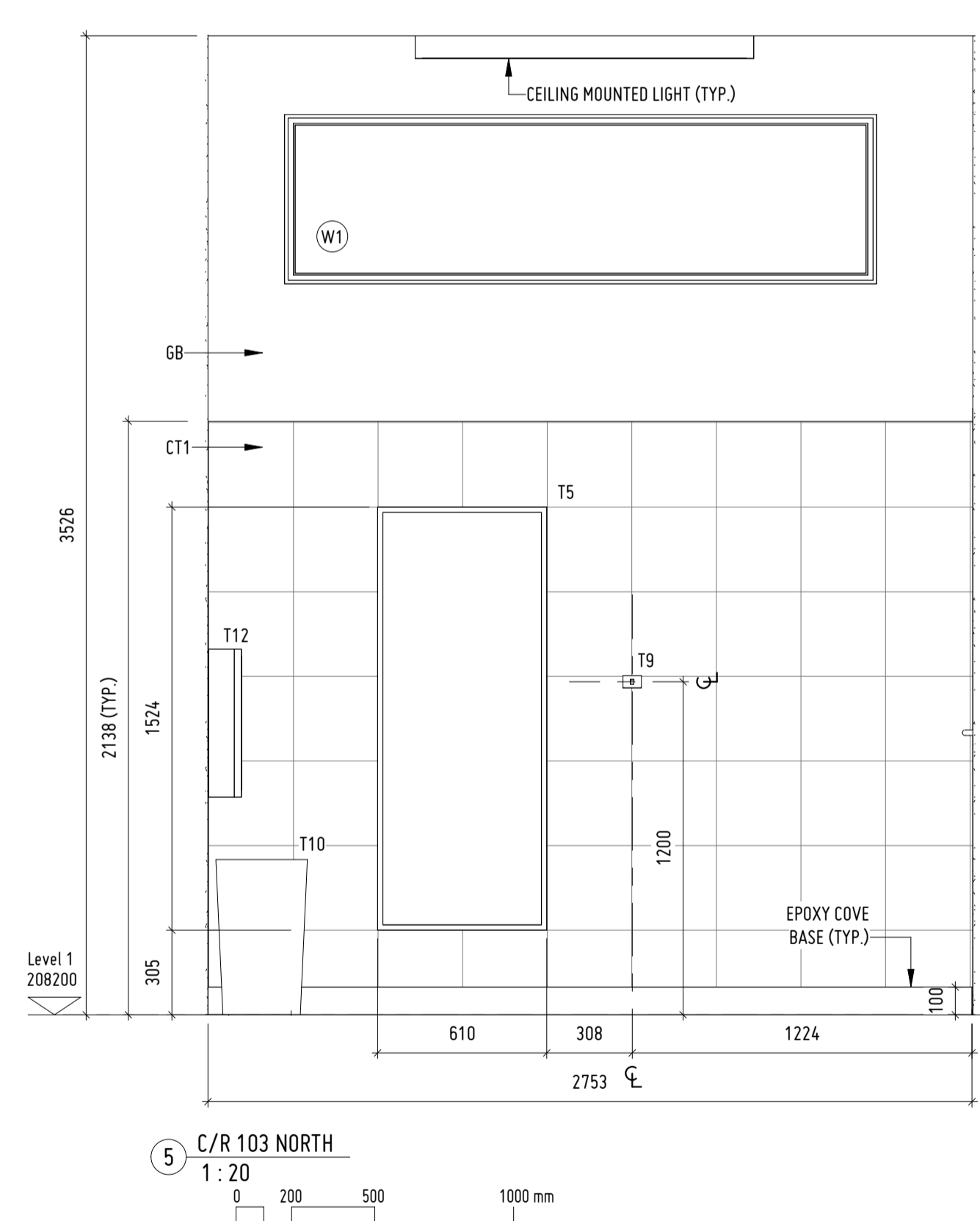
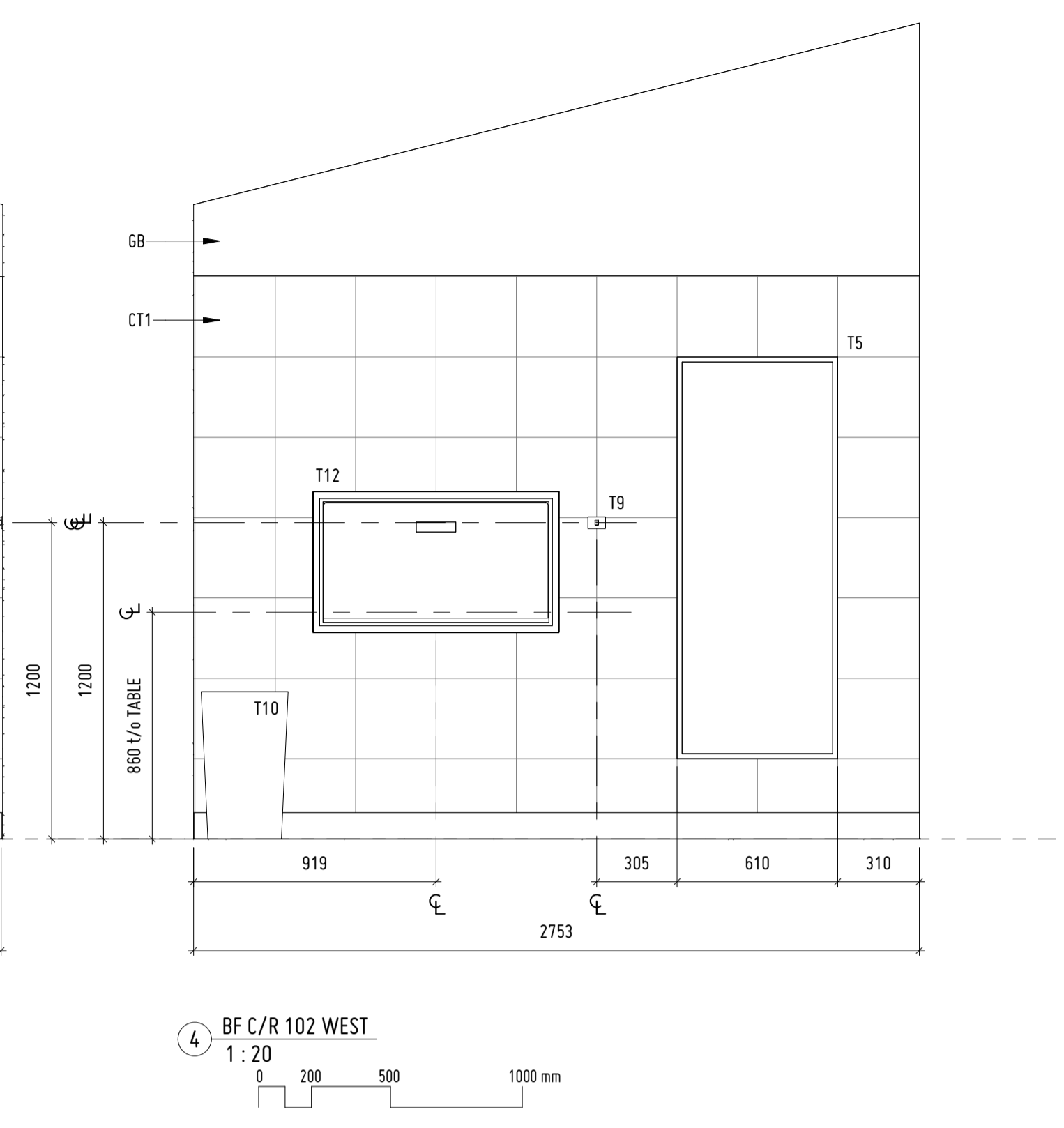
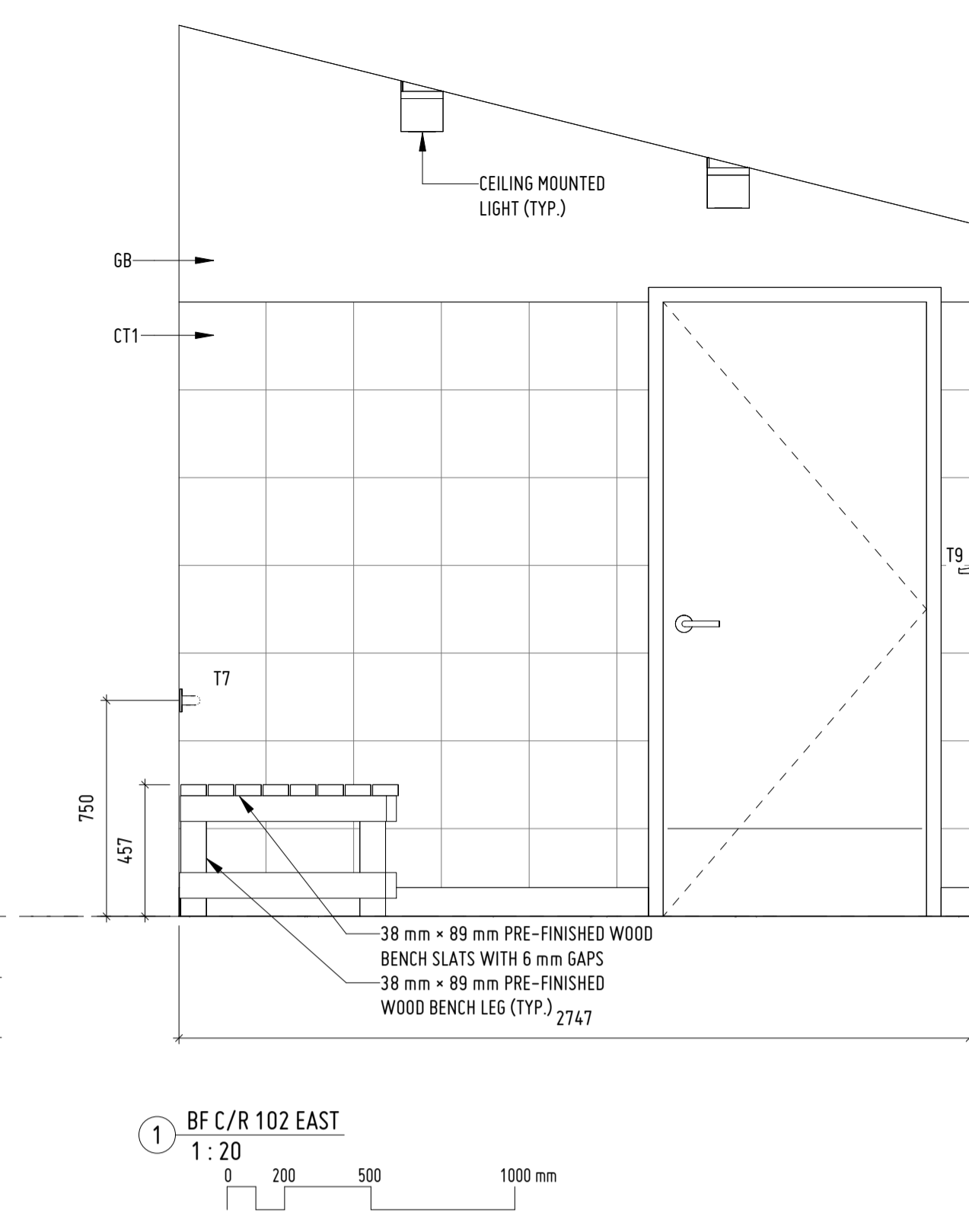
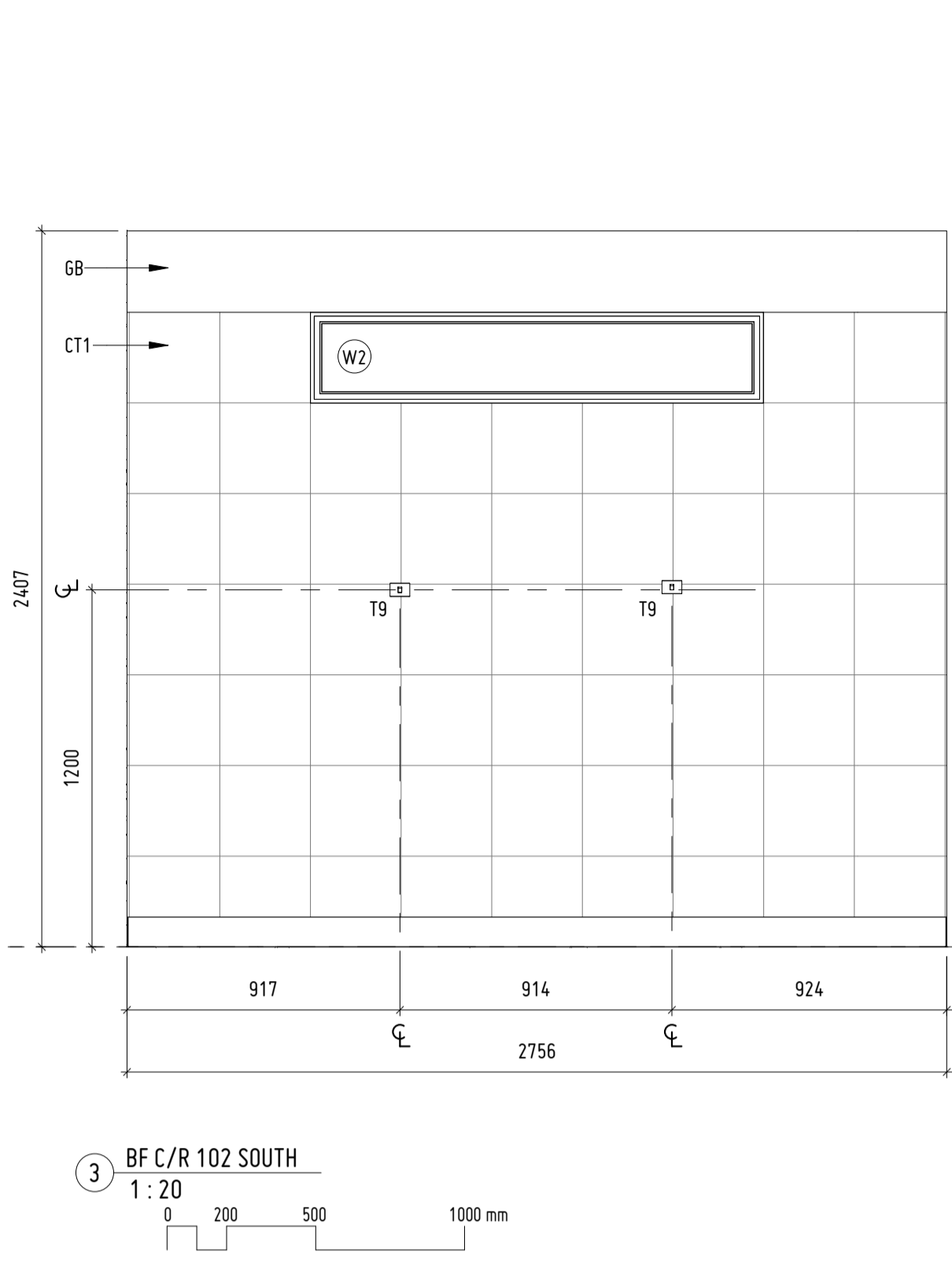
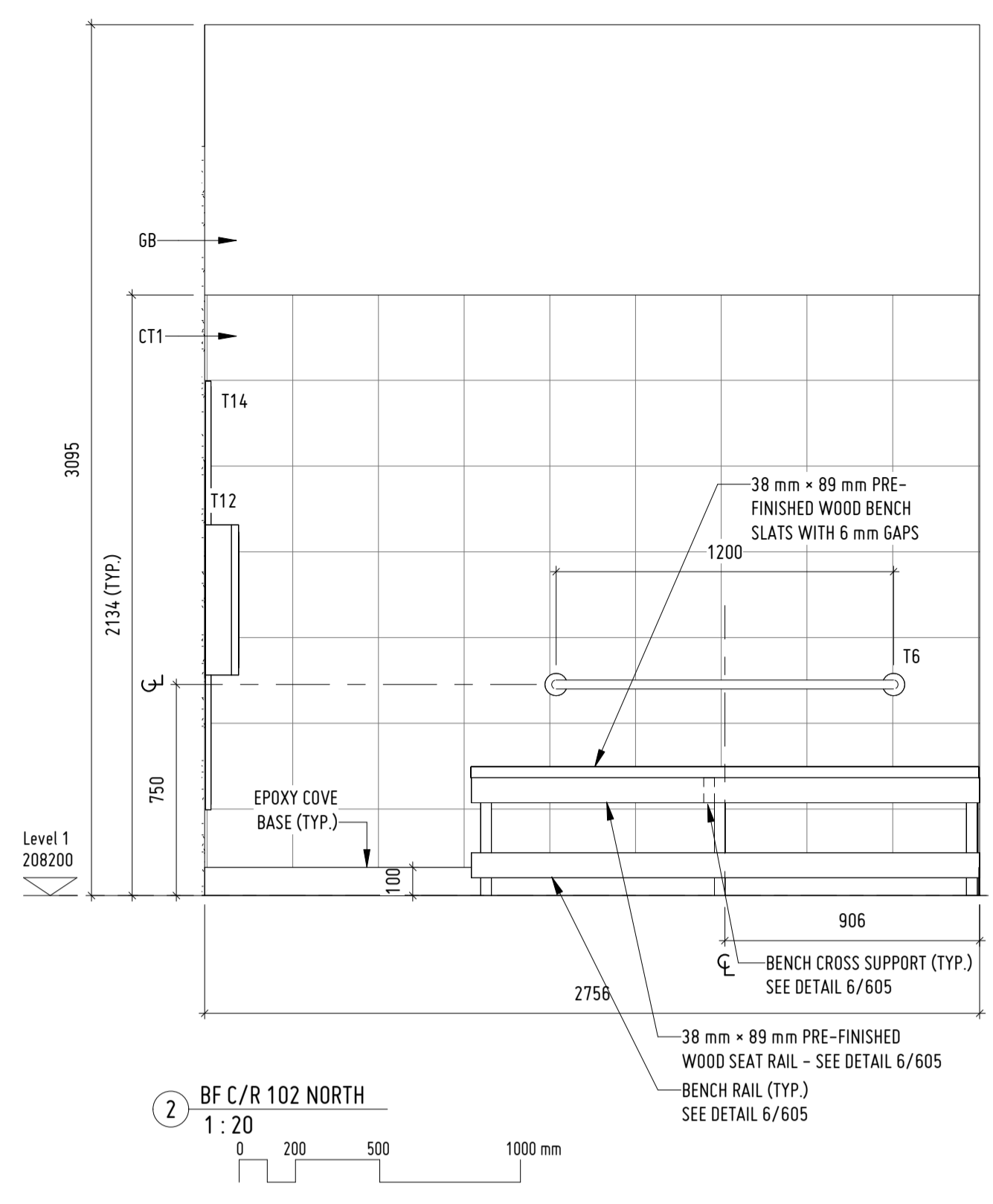
580 N RIVER ROAD

AYLESFORD, NOVA SCOTIA, B0P 1C0

SHEET DESCRIPTION

INTERIOR ELEVATIONS

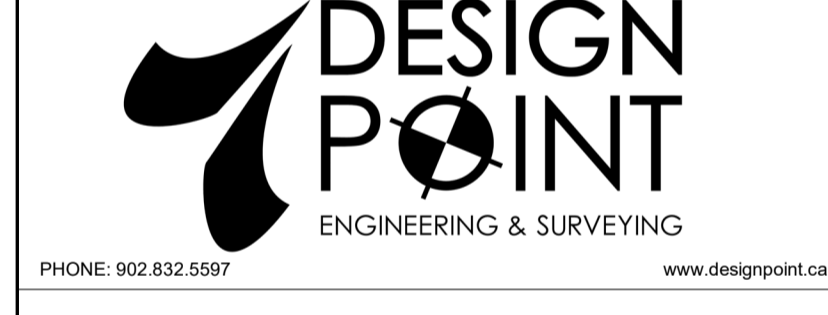
Drawn NEL	Architect MMJ	Project No. 2021025	Drawing No. A-602
Scale As Indicated	Date 10/05/21	10 OF 11	



KEY PLAN: NTS

ISSUE	DATE	DESCRIPTION
3	04/03/2022	ISSUED FOR TENDER
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1	14/10/2021	ISSUED FOR 50% REVIEW

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PROJECT DESCRIPTION

580 N RIVER ROAD

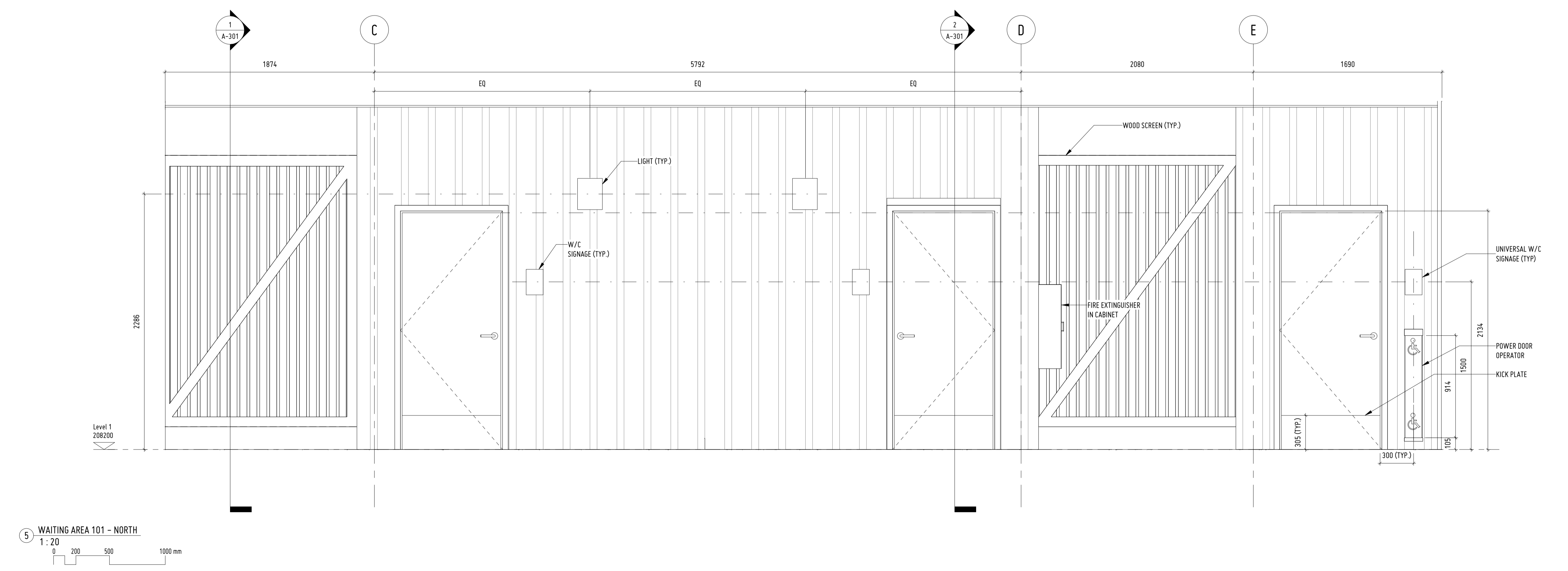
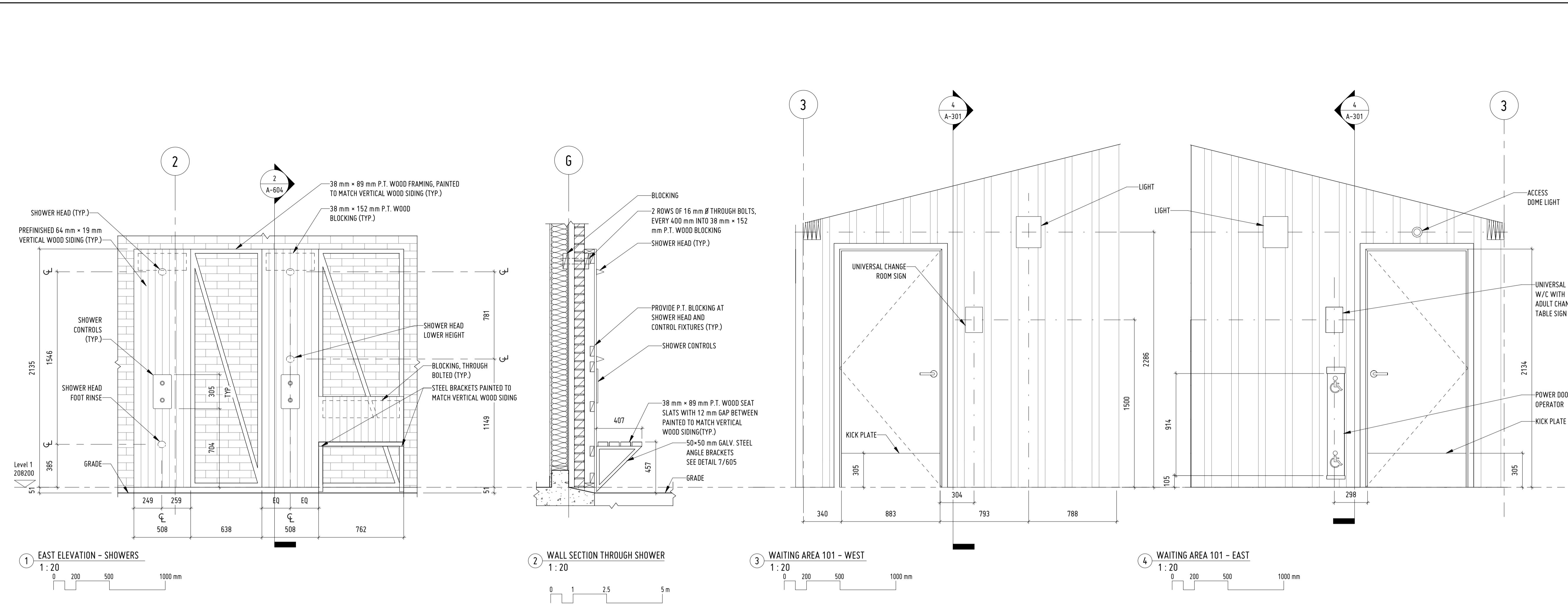
AYLESFORD, NOVA SCOTIA, B0P 1C0

SHEET DESCRIPTION

INTERIOR ELEVATIONS

Drawn	Architect	Project No.	Drawing No.
NEL	MMJ	2021025	A-603
Scale	Date		
As Indicated	11/01/21	11 OF 11	





KEY PLAN: NTS

ISSUE	DATE	DESCRIPTION
3	04/03/2022	ISSUED FOR TENDER
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1	14/10/2021	ISSUED FOR 50% REVIEW

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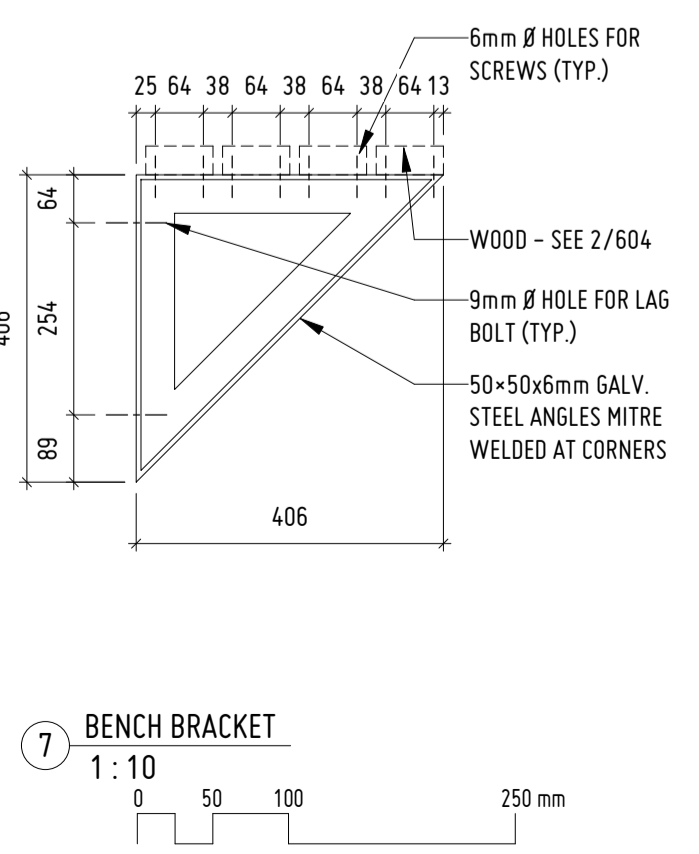
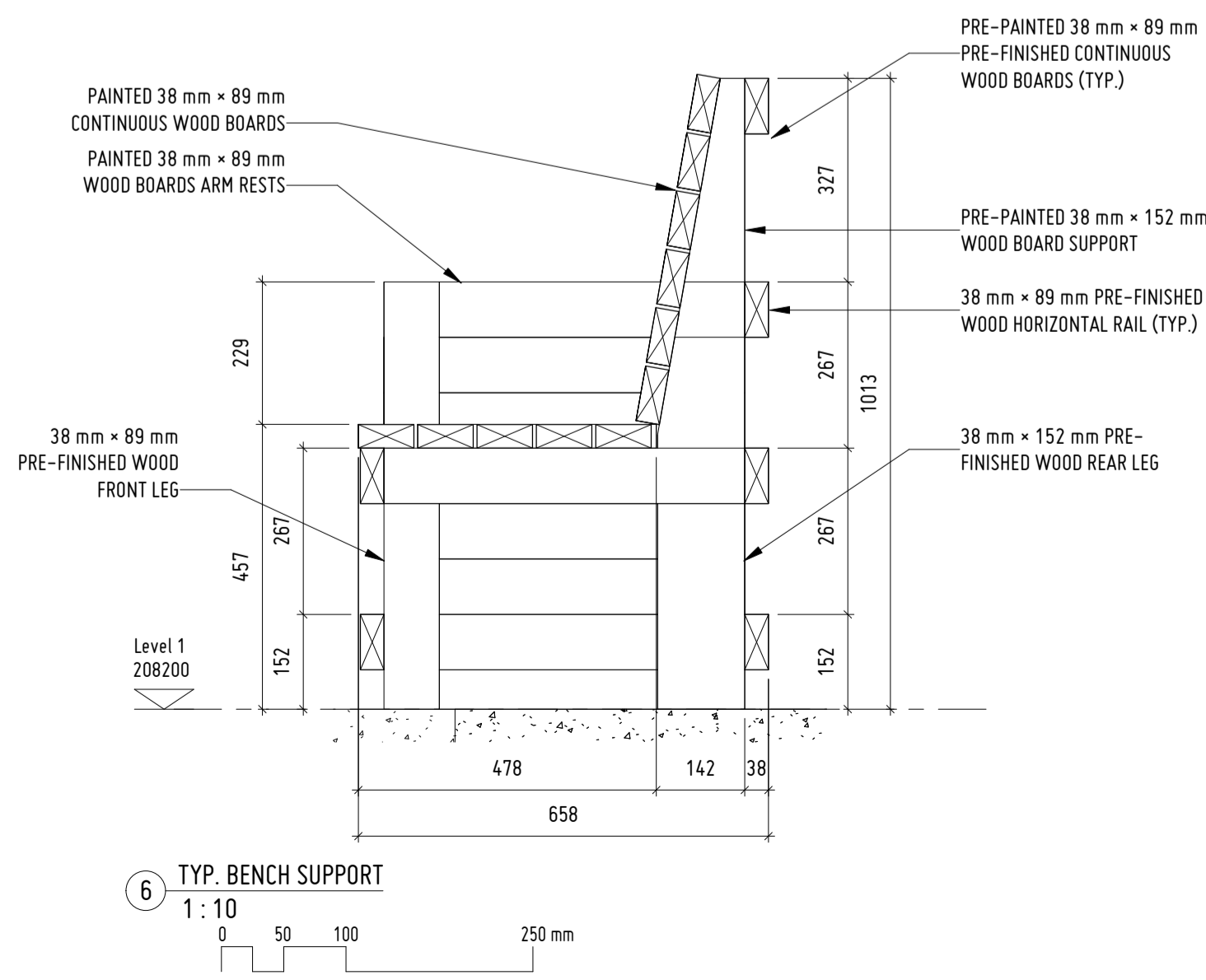
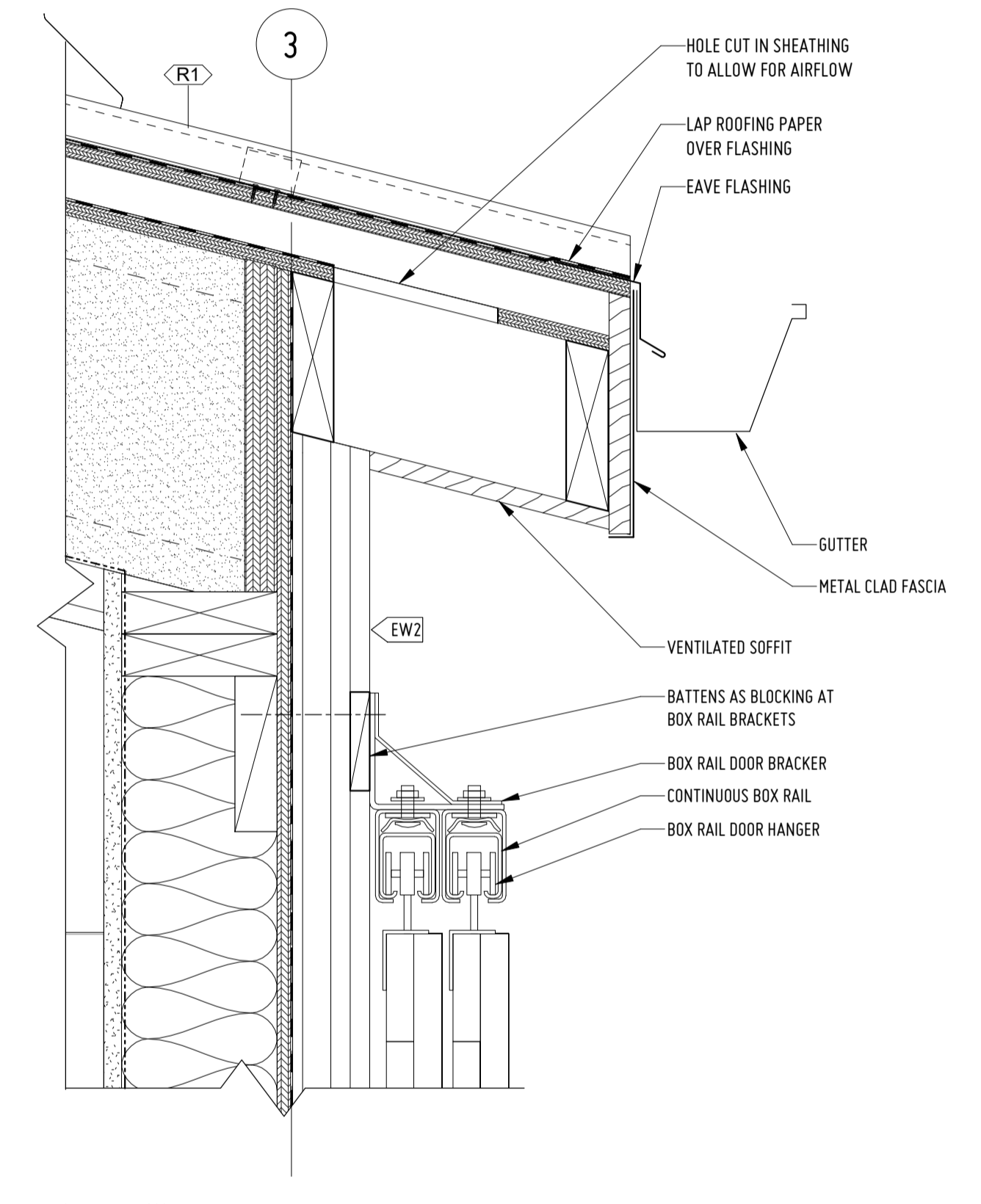
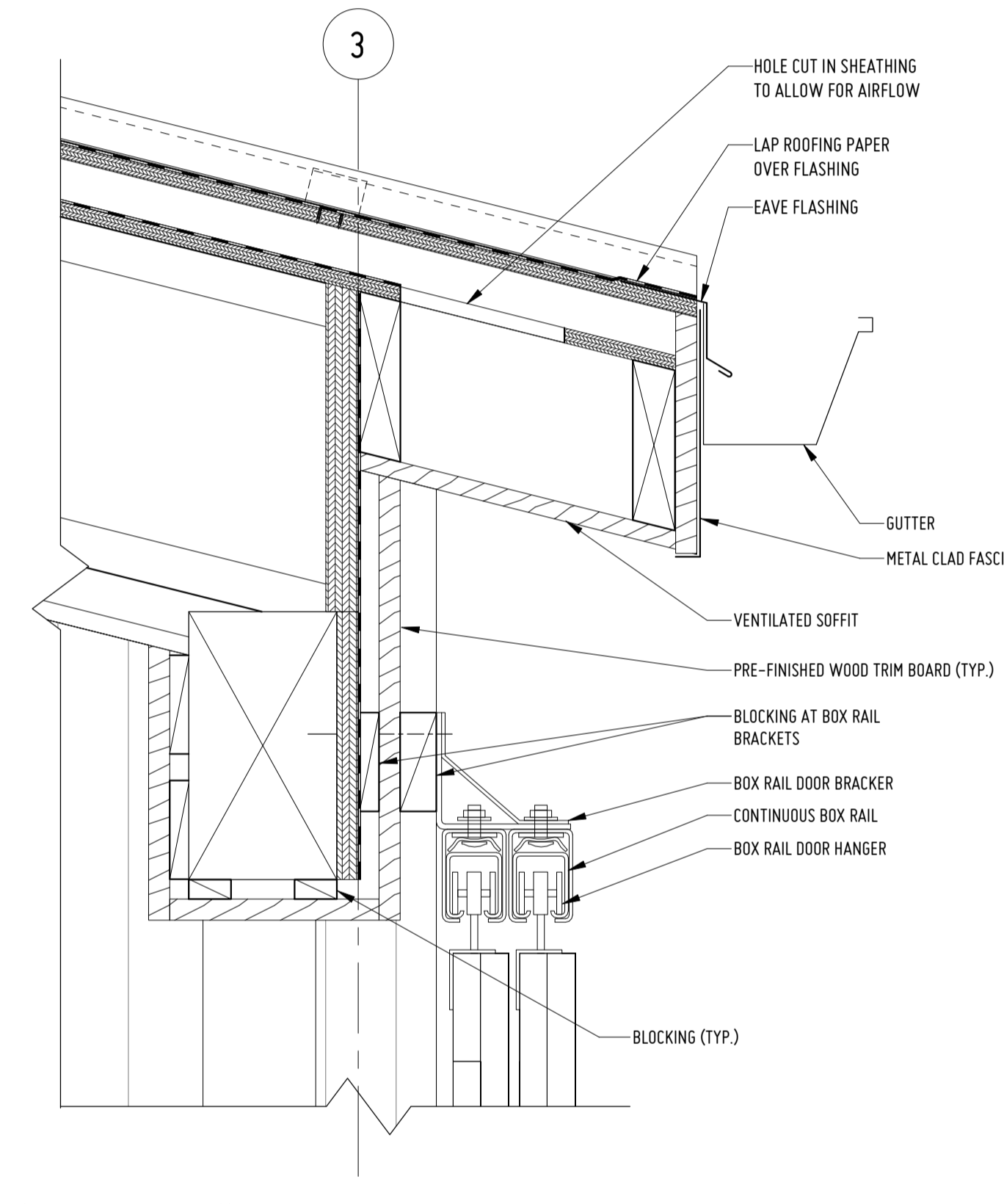
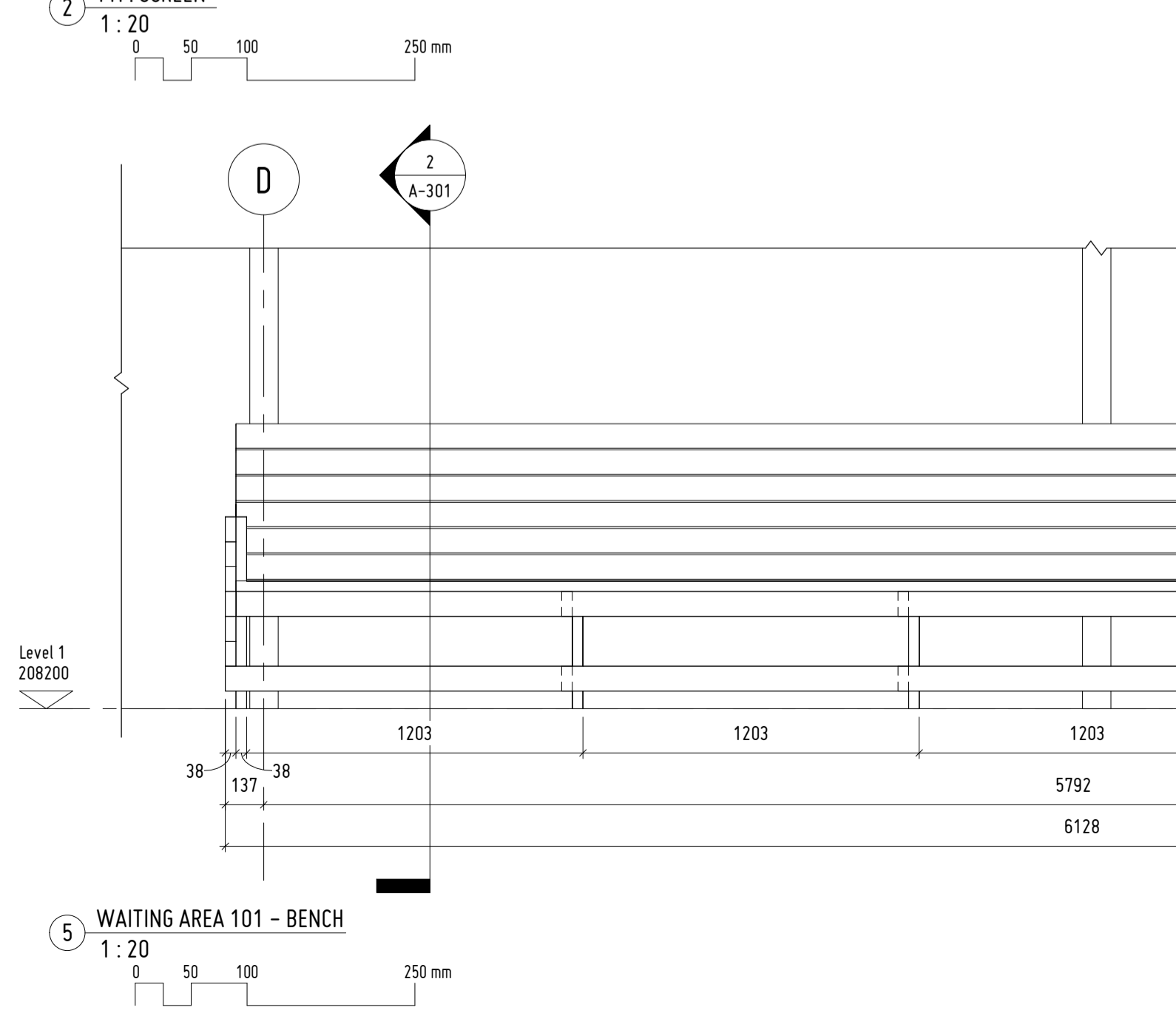
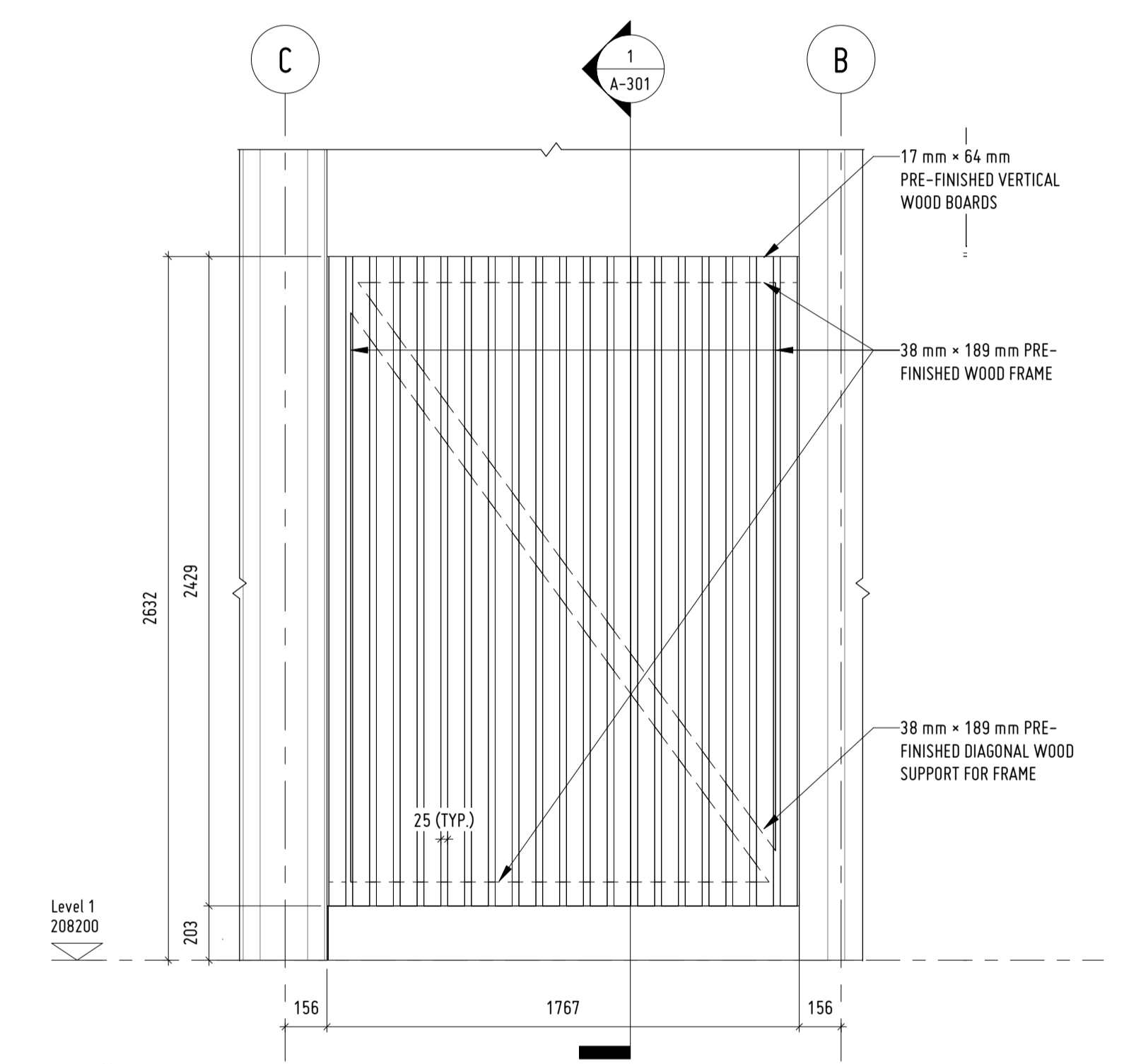
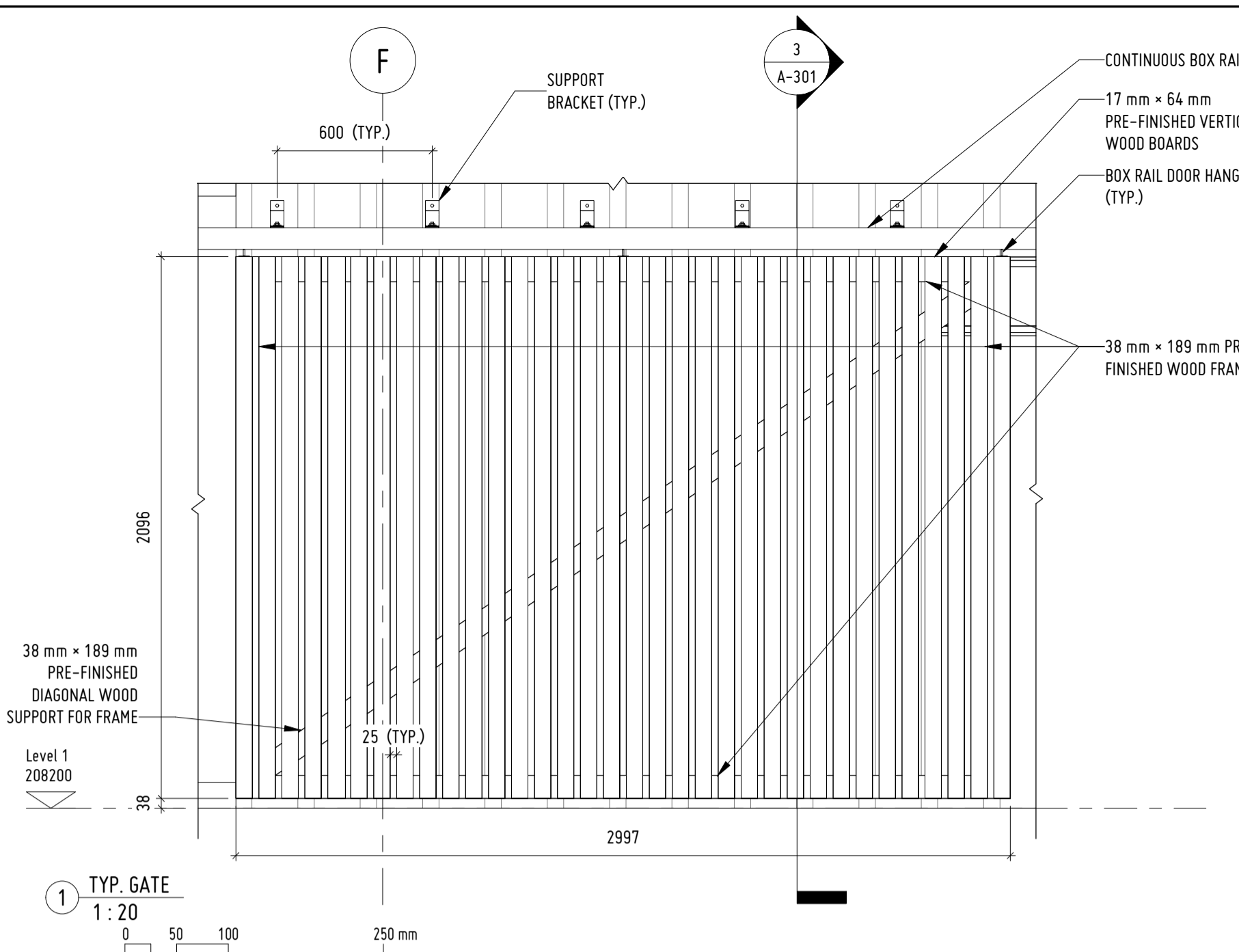
PROJECT DESCRIPTION

580 N RIVER ROAD  
AYLESFORD, NOVA SCOTIA, B0P 1C0

SHEET DESCRIPTION

EXTERIOR ELEVATIONS

Drawn Author	Architect	Project No. 2021025	Drawing No. <b>A-604</b>
Scale 1:20	Date 02/15/22	OF 11	



KEY PLAN: NTS

ISSUE	DATE	DESCRIPTION
3	04/03/2022	ISSUED FOR TENDER
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580 N RIVER ROAD

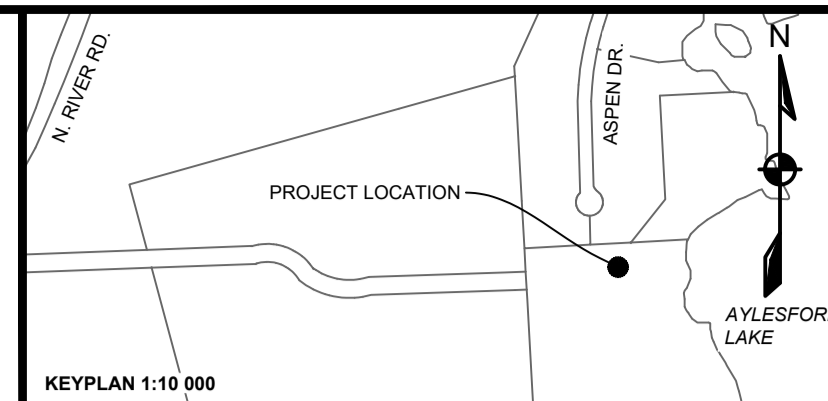
AYLESFORD, NOVA SCOTIA, B0P 1C0

SHEET DESCRIPTION

SCREEN, GATE & BENCH DETAILS

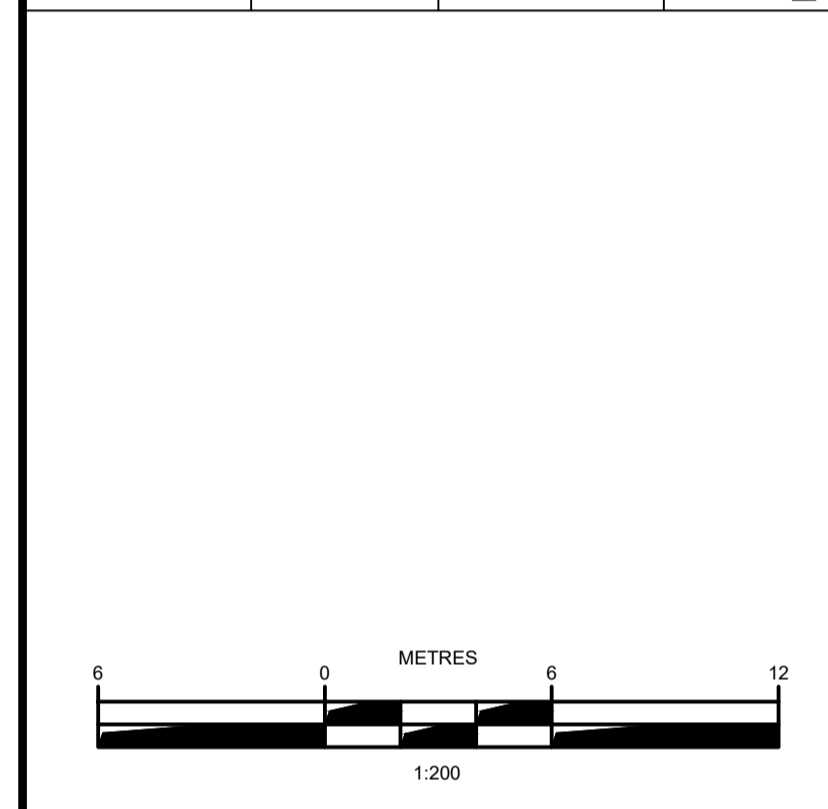
Drawn	Author	Architect	Project No.	Drawing No.
Scale	Date	As Indicated	2021025	A-605
			02/17/22	OF 11





EXISTING		PROPOSED	
---	VERTICAL PROFILE	---	VERTICAL PROFILE
---	APPROXIMATE 1 IN 100 YEAR FLOOD LIMIT	---	APPROXIMATE 1 IN 100 YEAR FLOOD LIMIT
---	EASEMENT	---	EASEMENT
---	UNDERGROUND POWER	---	UNDERGROUND POWER
---	UNDERGROUND COMM.	---	UNDERGROUND COMM.
---	POWER SERVICE	---	POWER SERVICE
---	COMMUNICATIONS SERVICE	---	COMMUNICATIONS SERVICE
---	OVERHEAD LINE	---	OVERHEAD LINE
---	SIDEWALK	---	SIDEWALK
---	WALKWAY/AT. TRAIL	---	WALKWAY/AT. TRAIL
---	GUARDRAIL	---	GUARDRAIL
---	FENCELINE	---	FENCELINE

EXISTING	PROPOSED	EXISTING	PROPOSED
---	CURB CUT/RAMP	---	AIR RELEASE VALVE
---	CURBSTOP	---	WATER VALVE
---	REDUCER	---	HYDRANT
---	PRECAST HEADWALL	---	CATCHBASIN
---	STREET SIGN	---	UTILITY POLE w/ GUY WIRE
---	STREET TREE	---	GLB
---		---	URD



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PROJECT DESCRIPTION

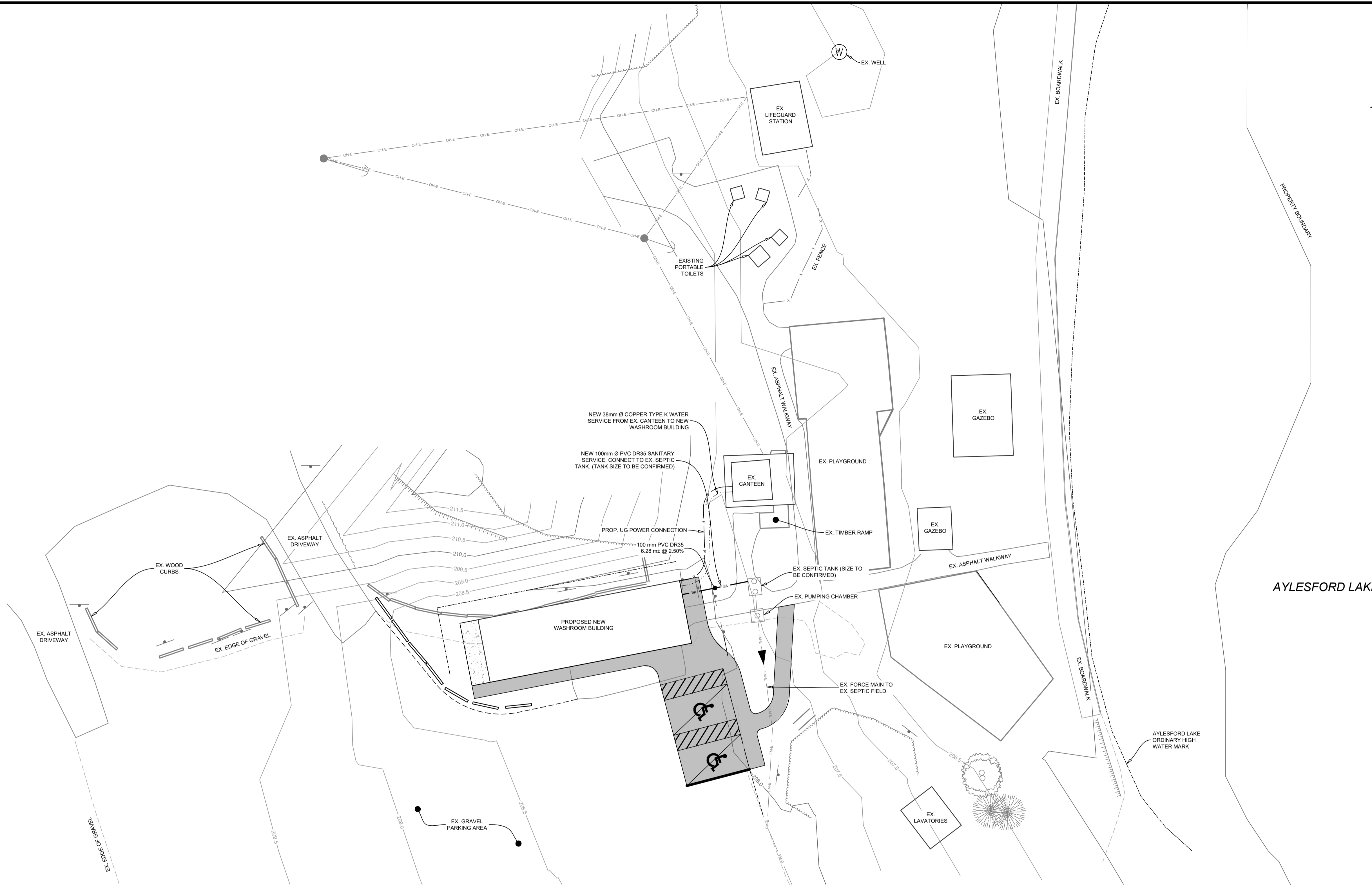
AYLESFORD LAKE BEACH PUBLIC WASHROOMS

AYLESFORD, NOVA SCOTIA

SHEET DESCRIPTION

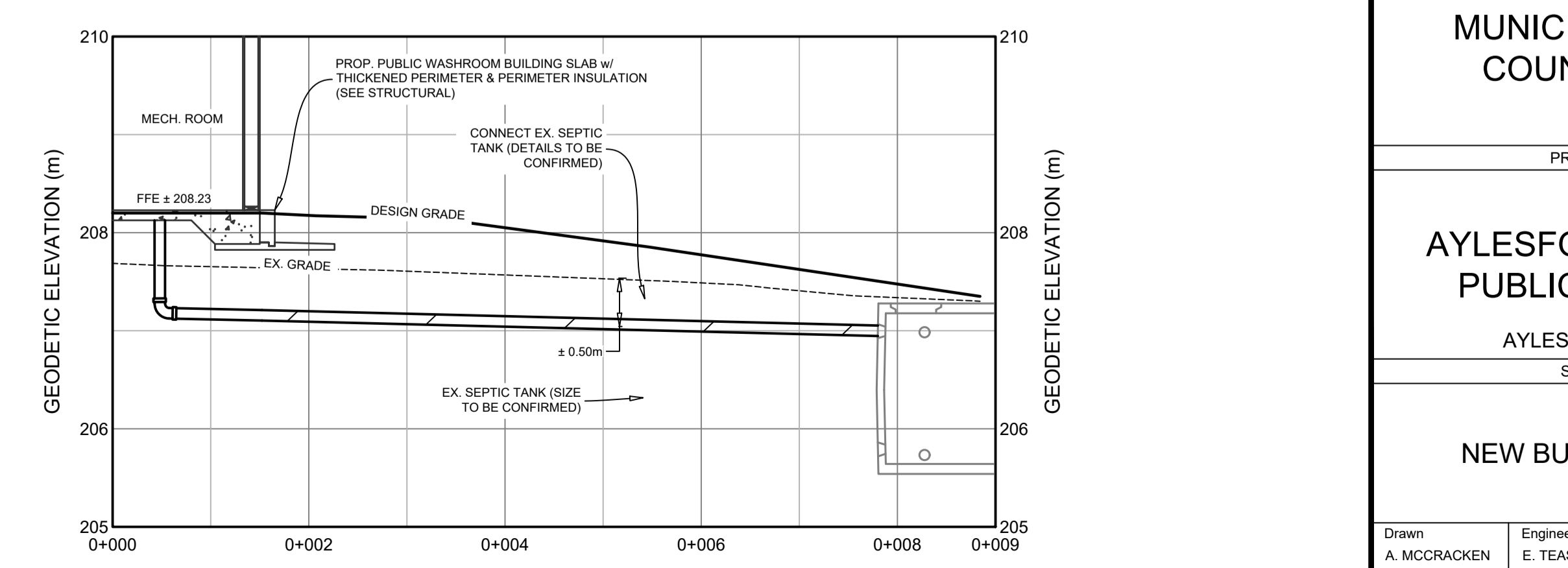
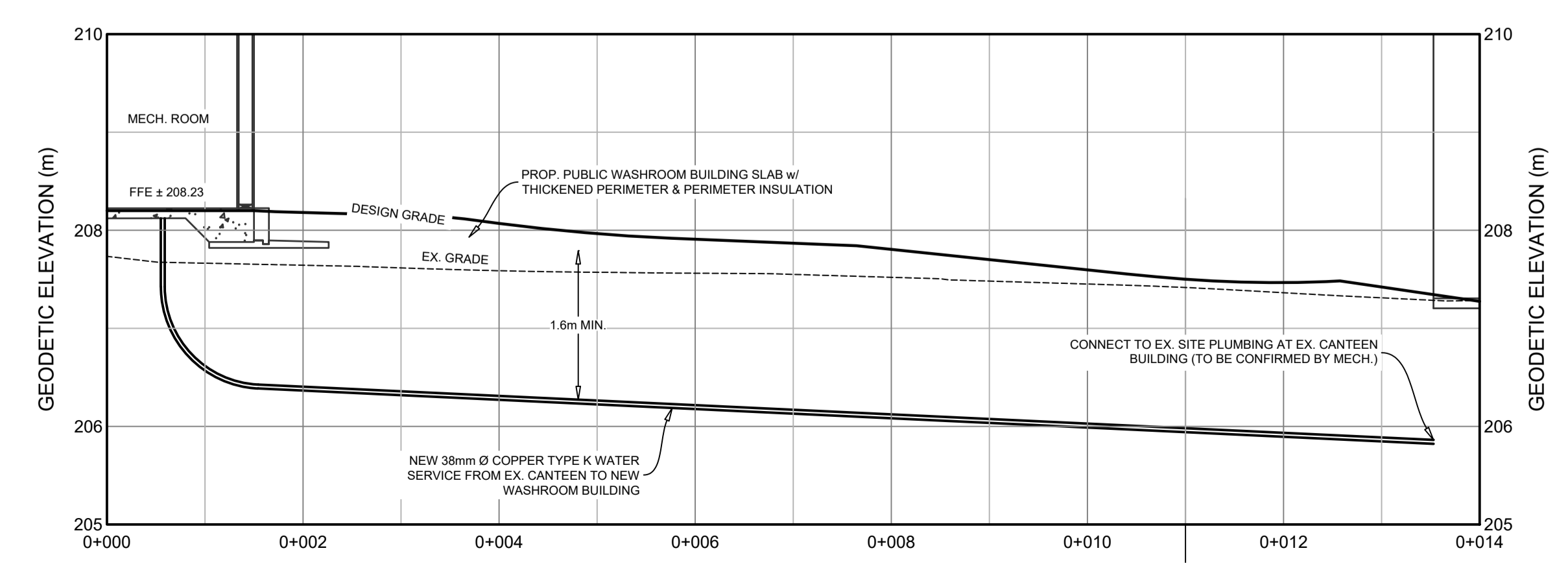
NEW BUILDING SERVICING

Drawn A. MCCracken	Engineer E. TEASDALE	Project No. 21-235	Drawing No. C-101
Scale 1:200	Filename 21-235_B.dwg		1 of 2

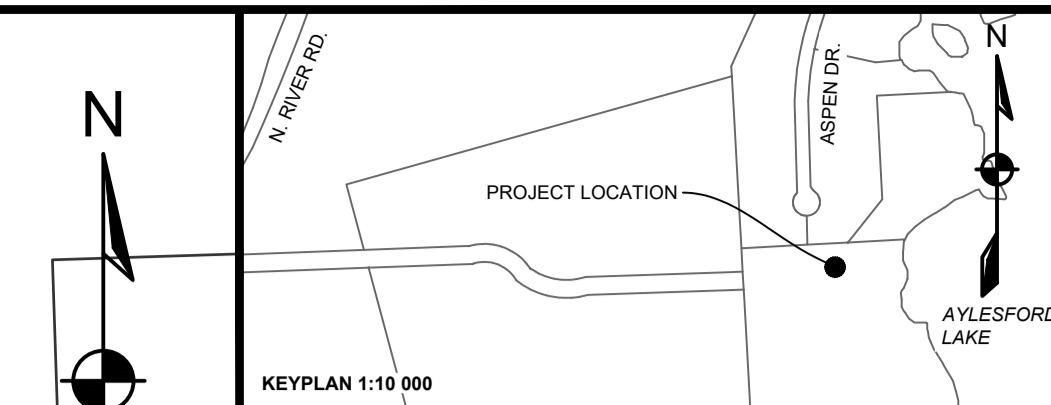


**WATER SERVICING PROFILE**  
1:50

**SANITARY SERVICING PROFILE**  
1:50

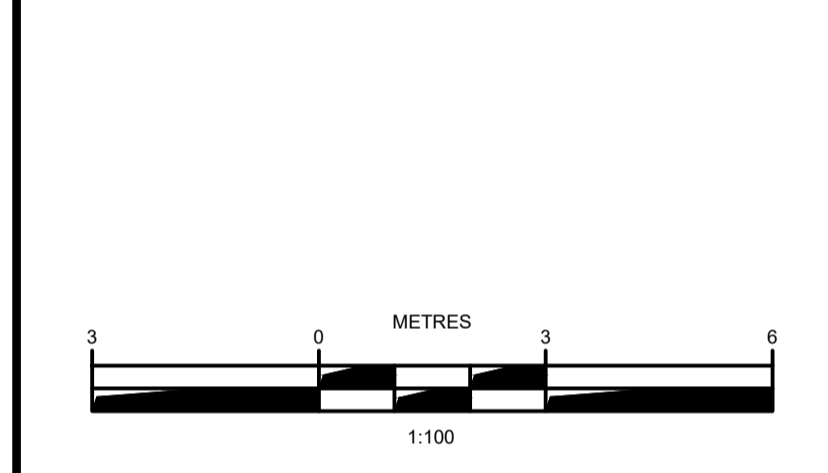


P:\2021\21-235 Mun of Kings - Aylesford Lake Beach Washroom\01 - Drawings\Eng Design\21-235\_B.dwg, Plot Date: 2022-Mar-3, Plot Size: ISO FULL BLEED A1 (594 00 X 841 00 MM)



LEGEND		
EXISTING	PROPOSED	EXISTING
-10-	MAJOR CONTOUR	-10-
-10-	MINOR CONTOUR	-10-
- - -	EASEMENT	- - -
---	RIGHT OF WAY	---
---	LOT LINE	---
▬	EXISTING PRECAST HEADWALL	▬
▬	PROPOSED PRECAST HEADWALL	▬
▬	EXISTING SURFACE GRADE	▬
▬	PROPOSED SURFACE GRADE	▬
▬	EXISTING SURFACE SLOPE	▬
▬	PROPOSED SURFACE SLOPE	▬
▬	EXISTING CATCHBASIN	▬
▬	PROPOSED CATCHBASIN	▬
▬	EXISTING FLOW ARROW	▬
▬	PROPOSED FLOW ARROW	▬
▬	EXISTING CURB CUT	▬
▬	PROPOSED CURB CUT	▬

- NOTES:
- HOUSE BUILDER TO EXPOSE SERVICE LATERALS AND CONFIRM ELEVATION PRIOR TO FOOTING PLACEMENT TO CONFIRM CONNECTION TO BUILDING.
  - HOMEOWNER/HOME BUILDER IS RESPONSIBLE FOR FINAL LOT GRADING AND SURFACE TREATMENT AS PART OF HOME CONSTRUCTION.
  - THE DESIGNER OF EACH INDIVIDUAL LOT GRADING PLAN MUST FOLLOW THE REQUIREMENTS OF THE HRM SUBDIVISION GRADING BYLAW. THIS INCLUDES AT A MINIMUM, COMPLETING A TOPOGRAPHIC SURVEY OF INDIVIDUAL LOT AND LOCATING PROPERTY BOUNDARIES IN THE FIELD. BOUNDARY INFORMATION MUST BE DETERMINED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH THE REGULATIONS OF THE NOVA SCOTIA LAND SURVEYORS ACT AND MUST INCLUDE AT A MINIMUM, FIELD MEASUREMENTS OF LEGAL BOUNDARY INFORMATION AND REVIEW OF THE APPROVED SUBDIVISION SURVEY PLAN.
  - ALL ELEVATIONS ARE METRIC AND GEODETIC. CONTOURS BASED ON LIDAR DATA AND TOPOGRAPHIC SURVEY CONDUCTED BY DESIGNPOINT ON AUGUST 15, 2021.
  - MINIMUM LOT GRADE TO BE 2%.
  - MAXIMUM LOT GRADE TO BE 3:1 (HORIZONTAL:VERTICAL). GRADES STEEPER THAN 3:1 ARE TO BE APPROVED BY PROJECT GEOTECHNICAL ENGINEER.
  - INDIVIDUAL LOT GRADING DESIGN TO BE COMPLETED PRIOR TO HOUSE CONSTRUCTION BASED ON AS-BUILT CONDITIONS.
  - FLOOR ELEVATIONS TO BE CONFIRMED AS PART OF INDIVIDUAL LOT GRADING DESIGN BASED ON AS-BUILT LATERAL LOCATIONS.
  - ROOF LEADERS TO DISCHARGE TO SURFACE AND TOWARDS ROAD.
  - FENCE OR HANDRAIL REQUIRED FOR WALLS HIGHER THAN 1m (AS PER HRM REQUIREMENTS).
  - THE INFORMATION ON THIS PLAN IS INTENDED TO PROVIDE GUIDANCE TO THE DESIGNER OF EACH INDIVIDUAL LOT GRADING PLAN.
  - THIS PLAN ALONE IS NOT INTENDED FOR, AND IS NOT SUITABLE FOR THE PREPARATION OF INDIVIDUAL LOT GRADING PLANS.



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COUNTY OF KINGS**

PROJECT DESCRIPTION

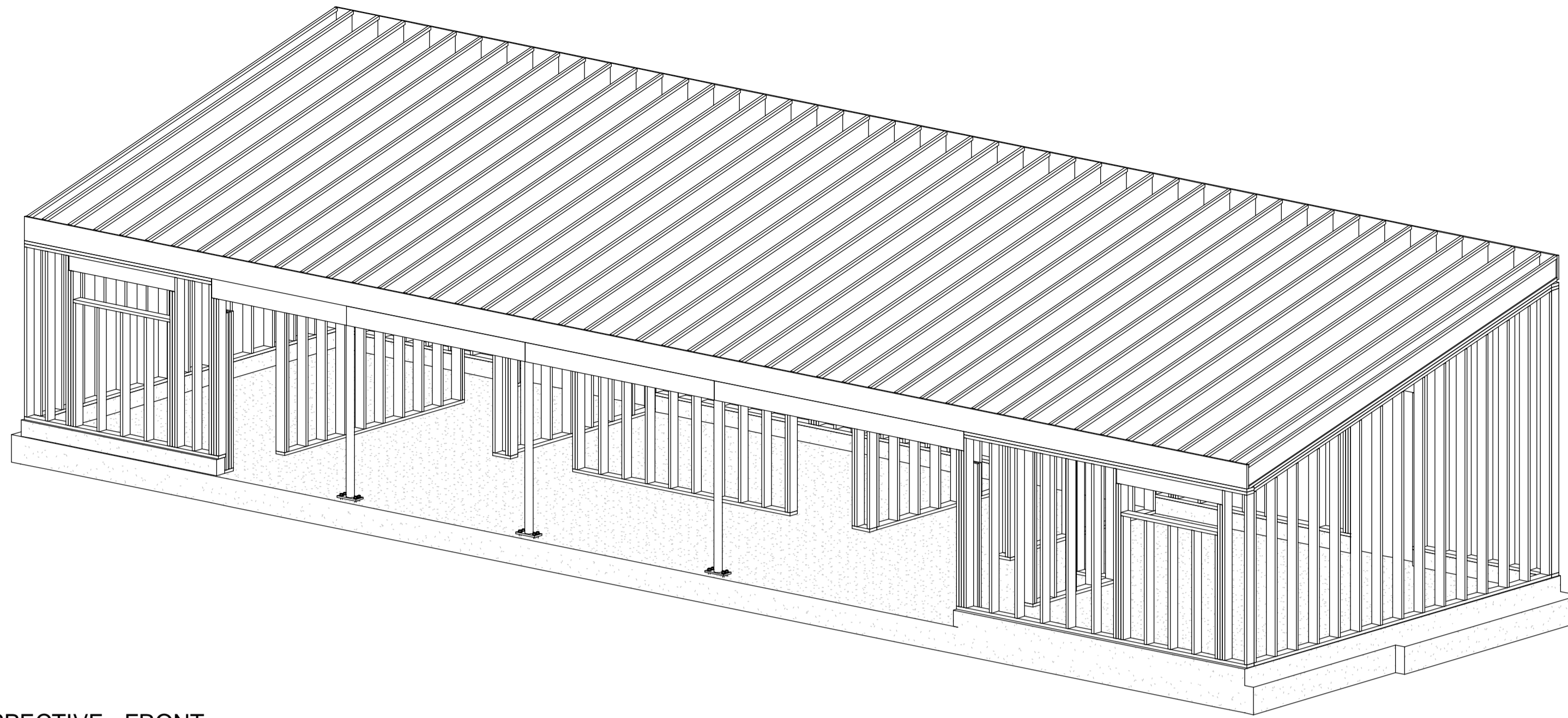
**AYLESFORD LAKE BEACH  
PUBLIC WASHROOMS**

AYLESFORD, NOVA SCOTIA

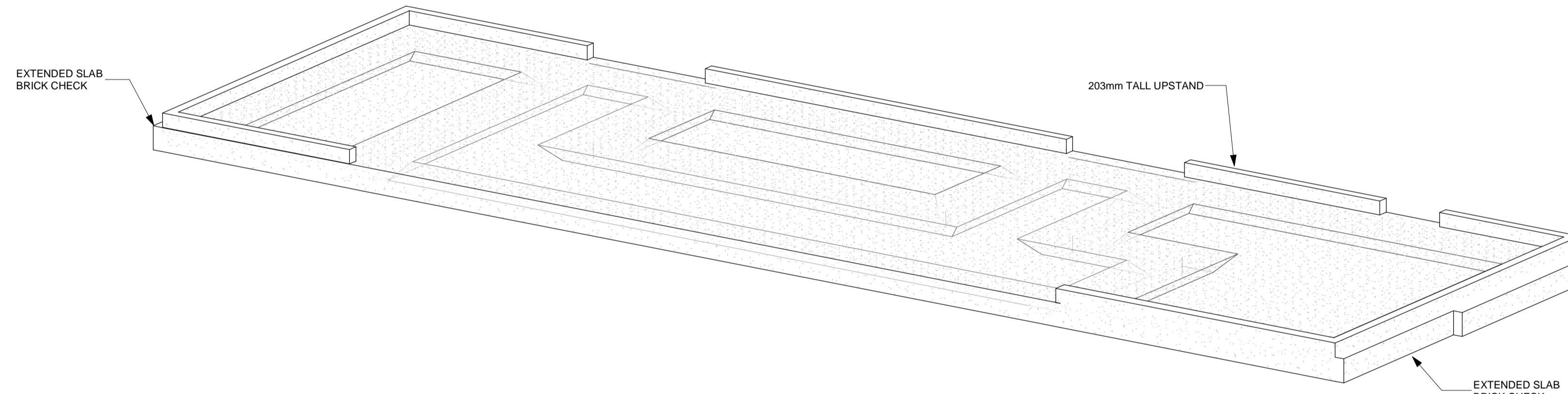
SHEET DESCRIPTION

Drawn <b>A. MCCracken</b>	Engineer <b>E. TEASDALE</b>	Project No. <b>21-235</b>	Drawing No. <b>C-102</b>
Scale <b>1:100</b>	Filename <b>21-235_B.dwg</b>	2 of 2	





1 3D PERSPECTIVE - FRONT  
S-100



2 3D PERSPECTIVE - FOUNDATION  
S-100

**TIMBER FRAMING NOTES**

1. ALL TIMBER AND LUMBER TO COMPLY WITH DESIGN STANDARD CSA-086 AND ALL DIMENSIONAL LUMBER TO COMPLY WITH CSA-O141.
2. ALL PLYWOOD SHEATHING AND OSB SHEATHING TO COMPLY WITH CSA-0325 CONSTRUCTION SHEATHING.
3. ROOF SHEATHING TO BE 16mm (5/8") EXTERIOR GRADE PLYWOOD, REFER TO ARCHITECTURAL DRAWINGS.
4. WALL SHEATHING TO BE 16mm (5/8") EXTERIOR GRADE PLYWOOD, REFER TO ARCHITECTURAL DRAWINGS.
5. CUTTING OF HOLES OR REMOVAL OF STRUCTURAL FRAMING BY TRADES FOR INSTALLATION OF PIPING, DUCTWORK, ELECTRICAL, ETC. IS NOT PERMITTED WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
6. CONTRACTOR TO SUPPLY ENGINEERED SHOP DRAWINGS FOR ALL SPECIALTY ENGINEERED WOOD PRODUCTS INCLUDING OWJ, TJI, LVL, PSL AND GLULAM. DRAWINGS TO BE SIGNED BY AN ENGINEER REGISTERED IN THE PROVINCE OF NOVA SCOTIA AND SUBMITTED TO DESIGN POINT FOR REVIEW PRIOR TO FABRICATION.
7. ENGINEERED WOOD PRODUCT DRAWINGS BY SUPPLIER TO SHOW ALL STRUCTURAL INFORMATION INCLUDING MEMBER LOADS, MEMBER SIZES, CONNECTION DETAILS, BRACING, PLACEMENT ETC.
8. JOIST SUPPLIER TO SUBMIT DETAILS AND CAPACITIES OF ALL CONNECTIONS (HANGERS, UPLIFT ANCHORS, ETC.) FOR APPROVAL PRIOR TO FABRICATION.
9. JOIST SUPPLIER TO PROVIDE BEARING SHOES WHERE REQUIRED IF ALLOWABLE BEARING STRESS PERPENDICULAR TO THE GRAIN IS EXCEEDED. SUBMIT SHOP DRAWINGS TO DESIGN POINT IF REQUIRED.
10. HANGING OF SERVICES FROM JOISTS MUST BE STAGGERED AND APPROVED BY THE STRUCTURAL ENGINEER.
11. INSTALL WOOD SHEATHING TO STUD WALLS AND ROOF FRAMING WITH JOINTS STAGGERED AND ENDS BUTTED OVER FRAMING. NAIL WOOD SHEATHING WITH 51mm (2") LG. COMMON NAILS AT 152mm (6") c/c ALONG EDGES AND 305mm (12") c/c ON THE INTERMEDIATE SUPPORTS.
12. JOISTS TO BE FASTENED TO TOP PLATES WITH 18 GAUGE ZINC COATED TIE DOWN ANCHORS AT EACH END (BY OWJ SUPPLIER).
13. JOISTS TO BE HANDLED, INSTALLED AND TEMPORARILY AND PERMANENTLY BRACED IN ACCORDANCE WITH BUILDING COMPONENT SAFETY INFORMATION GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING, AND BRACING METAL PLATE CONNECTED WOOD TRUSSES, LATEST EDITION.
14. LAMINATED VENEER LUMBER (LVL) OR APPROVED EQUIVALENT, MINIMUM PROPERTIES TO BE:
  - $F_b = 39.5 \text{ MPa}$  (5730 PSI)
  - $F_v = 3.7 \text{ MPa}$  (530 PSI)
  - $E = 13790 \text{ MPa}$  (2,000,000 PSI)

**GENERAL NOTES**

1. WORK & MATERIALS TO CONFORM TO THE REQUIREMENTS OF THE NATIONAL BUILDING CODE OF CANADA, 2015.
2. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH & SAFETY ACT OF NOVA SCOTIA.
3. NO ALTERATIONS TO STRUCTURAL DETAILS TO BE MADE WITHOUT THE WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER. ALL OPENINGS IN SLABS OR WALLS ARE TO BE PRE-FORMED & ALL HOLES SLEEVED. CONSTRUCTION ERRORS ARE TO BE DOCUMENTED & REPORTED TO THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH SUBSEQUENT WORK.
4. PERIODIC & DISCRETIONARY SITE OBSERVATIONS ARE MADE AT THE JOB SITE BY THE STRUCTURAL ENGINEER & ARE NECESSARILY LIMITED IN SCOPE TO OBSERVATION OF WORK IN PROGRESS AT THE TIME OF THE SITE OBSERVATION. THESE SITE OBSERVATIONS DO NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PROVIDE CONTINUOUS ON-SITE SUPERVISION OF ALL STRUCTURAL WORK TO ENSURE THAT BOTH THE INTENT & DETAILS OF THE DRAWINGS & SPECIFICATIONS ARE BEING FOLLOWED.
5. THE CONTRACTOR TO COORDINATE DETAILS SHOWN ON THE STRUCTURAL DRAWINGS WITH ALL OTHER DISCIPLINES DRAWINGS & SPECIFICATIONS.
6. THE FOLLOWING SHOP DRAWINGS TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW:
  - A. CONCRETE REINFORCING STEEL.
  - B. CONCRETE MIX DESIGNS.
  - C. STRUCTURAL STEEL FABRICATIONS INCLUDING ALL CONNECTION DETAILS. STRUCTURAL STEEL FABRICATION DRAWINGS TO BE STAMPED BY A PROFESSIONAL ENGINEER, REGISTERED OR LICENSED TO PRACTICE IN THE PROVINCE OF NOVA SCOTIA, WHO WILL BE RESPONSIBLE FOR THE DESIGN OF CONNECTIONS. ALL DESIGN LOADINGS SHOWN ON THE STRUCTURAL DRAWINGS, FOR THE PURPOSES OF MEMBER & CONNECTION DESIGN, ARE WORKING LOADS U.N.O.
  - D. OPEN WEB JOISTS. OPEN WEB JOIST CALCULATIONS TO BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED OR REGISTERED TO PRACTICE IN THE PROVINCE OF NOVA SCOTIA, WHO WILL BE RESPONSIBLE FOR THE DESIGN OF THE OPEN WEB JOISTS.
  - E. PROPOSED STEPPED FOOTING LOCATIONS & ELEVATIONS & INTERIOR FOOTINGS REQUIRED TO BE LOWERED TO ALLOW PIPING/DUCTBANKS/CONDUIT TO PASS OVER. REFER TO FOUNDATION NOTE 5.
  - F. ALL TEMPORARY SHORING, TEMPORARY SHORING DRAWINGS TO BE STAMPED BY A PROFESSIONAL ENGINEER, REGISTERED OR LICENSED TO PRACTICE IN THE PROVINCE OF NOVA SCOTIA, WHO WILL BE RESPONSIBLE FOR THE DESIGN OF THE SHORING & ASSOCIATED CONNECTIONS.

7. ALL DESIGN LOADS NOTED ON DRAWINGS ARE WORKING LOADS U.N.O.
8. ALL STANDARDS & SPECIFICATIONS NOTED TO REFLECT "LATEST EDITION".
9. REFER TO ARCHITECTURAL DRAWINGS FOR THE SIZES & LOCATIONS OF ALL EXTERIOR & INTERIOR DOOR & WINDOW OPENINGS THROUGH ALL WALLS.
10. COORDINATE ALL DIMENSIONS WITH ALL OTHER DISCIPLINE DRAWINGS. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR CONSTRUCTION.
11. ALL BRICK TIES TO BE 22 GAUGE GALVANIZED STEEL AT 400mm c/c VERTICAL SPACING AND 400mm c/c HORIZONTAL SPACING.

**DESIGN NOTES**

1. STRUCTURAL ELEMENTS DESIGNED IN ACCORDANCE WITH:
  - A. CONCRETE: CSA A23.3
  - B. STEEL: CSA S16
  - C. TIMBER: CSA-086
2. DESIGN LOADING
  - A. WIND:
    - $q_{10} = 0.42 \text{ kPa}$
    - $q_{30} = 0.54 \text{ kPa}$
    - SNOW
    - $S_s = 2.6 \text{ kPa}$
    - $S_i = 0.6 \text{ kPa}$

**FOUNDATION NOTES**

1. FOUNDATIONS ARE DESIGNED TO BEAR ON UNDISTURBED NATIVE MATERIAL OR FULLY COMPACTED ENGINEERED FILL WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 150 kPa (3 ksf). THESE BEARING PRESSURES ARE ASSUMED & TO BE VERIFIED BY A GEOTECHNICAL ENGINEER PRIOR TO POURING ANY CONCRETE.
2. ALL ENGINEERED (STRUCTURAL) FILL & BACKFILLING IS TO BE PLACED UNDER THE CONTINUOUS SUPERVISION OF THE GEOTECHNICAL ENGINEER.
3. THE GEOTECHNICAL ENGINEER TO INSPECT ALL PROPOSED BEARING SURFACES & CONFIRM THAT THE ALLOWABLE BEARING CAPACITY STATED IN THE GEOTECHNICAL REPORT, CAN BE ACHIEVED PRIOR TO PLACEMENT OF ANY CONCRETE IN FOOTINGS & THAT BEARING SURFACE IS FREE FROM FROST & WATER. IF THE GEOTECHNICAL ENGINEER DEEMS BEARING SURFACE CAN NOT PROVIDE THE ALLOWABLE BEARING CAPACITY, THE CONTRACTOR IS TO LOWER FOOTINGS AS DIRECTED BY GEOTECHNICAL ENGINEER TO A LEVEL THAT CAN PROVIDE THE ALLOWABLE BEARING CAPACITY.
4. BACKFILLING AGAINST WALLS OR GRADE BEAMS TO PROCEED IN APPROXIMATELY EQUAL LIFTS ON BOTH SIDES OF THE WALL OR GRADE BEAM, UNLESS NOTED OTHERWISE.
5. NO PIPING/DUCTBANKS/CONDUIT ARE TO PASS UNDER ANY LOAD BEARING FOUNDATIONS OR WITHIN THEIR ASSOCIATED ZONE OF INFLUENCE WITHOUT APPROVAL FROM THE ENGINEER.

**REINFORCED CONCRETE NOTES**

1. ALL CONCRETE, CONCRETE MATERIALS, FORMS, WORKING PROCEDURES & THE LIKE TO CONFORM TO CSA A23.1, LATEST EDITION, UNLESS NOTED OTHERWISE.
2. ALL CONCRETE TESTING TO CONFORM TO CSA-A32.2. CONTRACTOR TO BE RESPONSIBLE FOR ALL CONCRETE TESTING.
3. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS & CLASS OF EXPOSURE TO BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS:
  - A. BUILDING FOUNDATIONS, FROST WALLS .....25 MPa/F-2
  - B. INTERIOR SLABS ON GRADE .....25 MPa/N
  - C. MUD SLABS .....20 MPa/N
  - D. CURBS, EXTERIOR PADS & WALKWAYS .....32 MPa/C-2
4. FOR COMPRESSIVE STRENGTH TESTING OF CONCRETE, A MINIMUM OF 3 CYLINDERS ARE REQUIRED FOR:
  - EACH DAYS POUR
  - EACH TYPE OR GRADE OF CONCRETE
  - EACH CHANGE OF SUPPLIER
  - EACH 100 cu. yd. OR FRACTIONAL RANGE OF ALL CONCRETE
  - ADDITIONAL TESTS AS REQUESTED BY THE ENGINEER OR PERSONS OF AUTHORITY.
5. CONCRETE PROTECTIVE COVER TO REINFORCING STEEL TO BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS:
  - CAST AGAINST GROUND - NO FORM WORK ..... 76mm (3")
  - EXPOSED TO EARTH WEATHER ..... 60mm (2 3/8")
6. ALL REINFORCING STEEL TO BE DETAILED, FABRICATED, PLACED AND SUPPORTED IN ACCORDANCE WITH THE "REINFORCING STEEL MANUAL OF STANDARD PRACTICE," BY THE REINFORCING STEEL INSTITUTE OF CANADA.
7. CONSTRUCTION JOINTS TO BE LOCATED SO AS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE. LOCATIONS TO BE AS SHOWN ON THE DRAWINGS OR CONTRACTOR IS TO SUBMIT PROPOSED CONSTRUCTION JOINTS FOR THE STRUCTURAL ENGINEER'S APPROVAL. CONSTRUCTION JOINTS TO BE KEYS & REINFORCEMENT TO NOT BE INTERRUPTED.
8. ALL REINFORCING STEEL TO HAVE A MINIMUM YIELD POINT STRENGTH OF 400 MPa & TO CONFORM TO CSA 30.18-M, LATEST EDITION.
9. ALL W.W.F. TO CONFORM TO ASTM A82 & ASTM A185, LATEST EDITIONS.
10. UNLESS NOTED OTHERWISE, REINFORCING STEEL TO BE PROVIDED WITH A CLASS 'B' TENSION LAP TO CSA A23.3, LATEST EDITION AT ALL SPLICE LOCATIONS.

**STRUCTURAL STEEL NOTES**

1. ALL STRUCTURAL STEEL TO BE NEW STOCK & CONFORM TO THE FOLLOWING GRADES & STANDARDS.
  - A. STEEL SECTIONS - CAN/CSA-G40.21, GRADE 350W OR ASTM 572, GRADE 345 MPa WHERE APPLICABLE.
  - B. HOLLOW STRUCTURAL SECTIONS - CAN/CSA-G40.21, GRADE 350W CLASS C OR ASTM A500, GRADE 345 MPa. CLASS C WHERE APPLICABLE.
  - C. ANGLES, CHANNELS & PLATES - CAN/CSA-G40.21, GRADE 300W.
  - D. BARS - CAN/CSA-G40.21, GRADE 300W.
2. ALL STRUCTURAL STEEL TO BE FABRICATED & ERECTED IN ACCORDANCE WITH CSA S16, LATEST EDITION.
3. ALL WELDING & WELD MATERIALS TO COMPLY WITH CSA-W59, LATEST EDITION, & BE PERFORMED BY A FABRICATOR FULLY APPROVED UNDER CSA-W47.1, LATEST EDITION, DIVISIONS NO. 1 & NO. 2.
4. ALL BOLTS, NUTS & WASHERS FOR STRUCTURAL STEEL CONNECTIONS TO CONFORM TO ASTM F3125/F3125M, LATEST EDITION U.N.O.
5. ALL ANCHOR RODS, NUTS & WASHERS TO CONFORM TO ASTM A307 OR ASTM A449 AS NOTED, LATEST EDITION.
6. SPLICES IN STRUCTURAL STEEL MEMBERS, OTHER THAN THOSE SHOWN ON THE DRAWINGS, MUST HAVE THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
7. ALL WELDED JOINTS IN ARCHITECTURALLY EXPOSED STRUCTURAL STEEL TO BE GROUND SMOOTH & HAVE ALL WELD SPATTER REMOVED.
8. BOLTS IN SLOTTED HOLE CONNECTIONS MUST BE INSTALLED CONCENTRICALLY WITH THE SLOTTED PLATE TO PERMIT FREE MOVEMENT IN THE DIRECTION OF THE SLOT. SET THE NUTS WITH A COLD CHISEL OR PROVIDE PERMANENT RESTRAINT BY OTHER MEANS.
9. TYPICAL SHEAR CONNECTIONS ARE TO BE DESIGNED TO RESIST 50% OF THE TOTAL UNIFORMLY DISTRIBUTED FACTORED LOAD CAPACITY OF THE MEMBERS.
10. ALL STEEL NOTED TO BE GALVANIZED TO BE BY HOT DIP METHOD WITH MINIMUM ZINC COATING OF 600g/m<sup>2</sup> (2.0 oz/sq.ft.) & CONFORMING TO ASTM A123/123M.
11. GRIND ALL FIELD WELD AREAS FREE OF GALVANIZING BEFORE WELDING. COAT ALL FIELD WELDS, NICKS/SCRATCHES & BOLTED CONNECTIONS WITH ZINC RICH PRIMER IN ACCORDANCE WITH CAN/CSG 1.181.

ISSUE	DATE	DESCRIPTION
3	04/03/2022	ISSUED FOR TENDER
2	05/01/2022	ISSUED FOR 90% REVIEW
1	14/10/2021	ISSUED FOR 50% REVIEW

CONSULTANT

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REGISTERED PROFESSIONAL ENGINEER  
DATE 04/03/2022  
E. TEASDALE  
9877  
PROVINCE OF NOVA SCOTIA

CLIENT

**MUNICIPALITY OF THE  
COUNTY OF KINGS**

PROJECT DESCRIPTION

**AYLESFORD LAKE BEACH  
WASHROOMS**

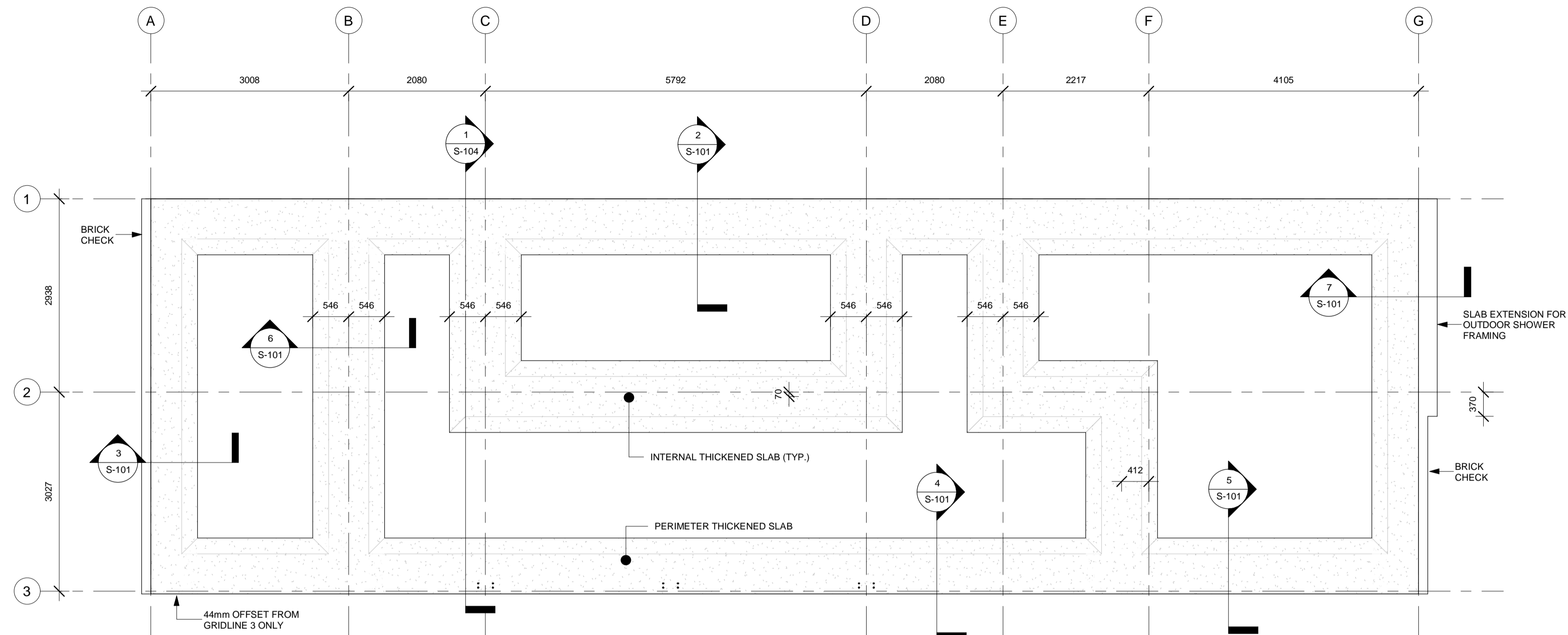
AYLESFORD, NOVA SCOTIA

SHEET DESCRIPTION

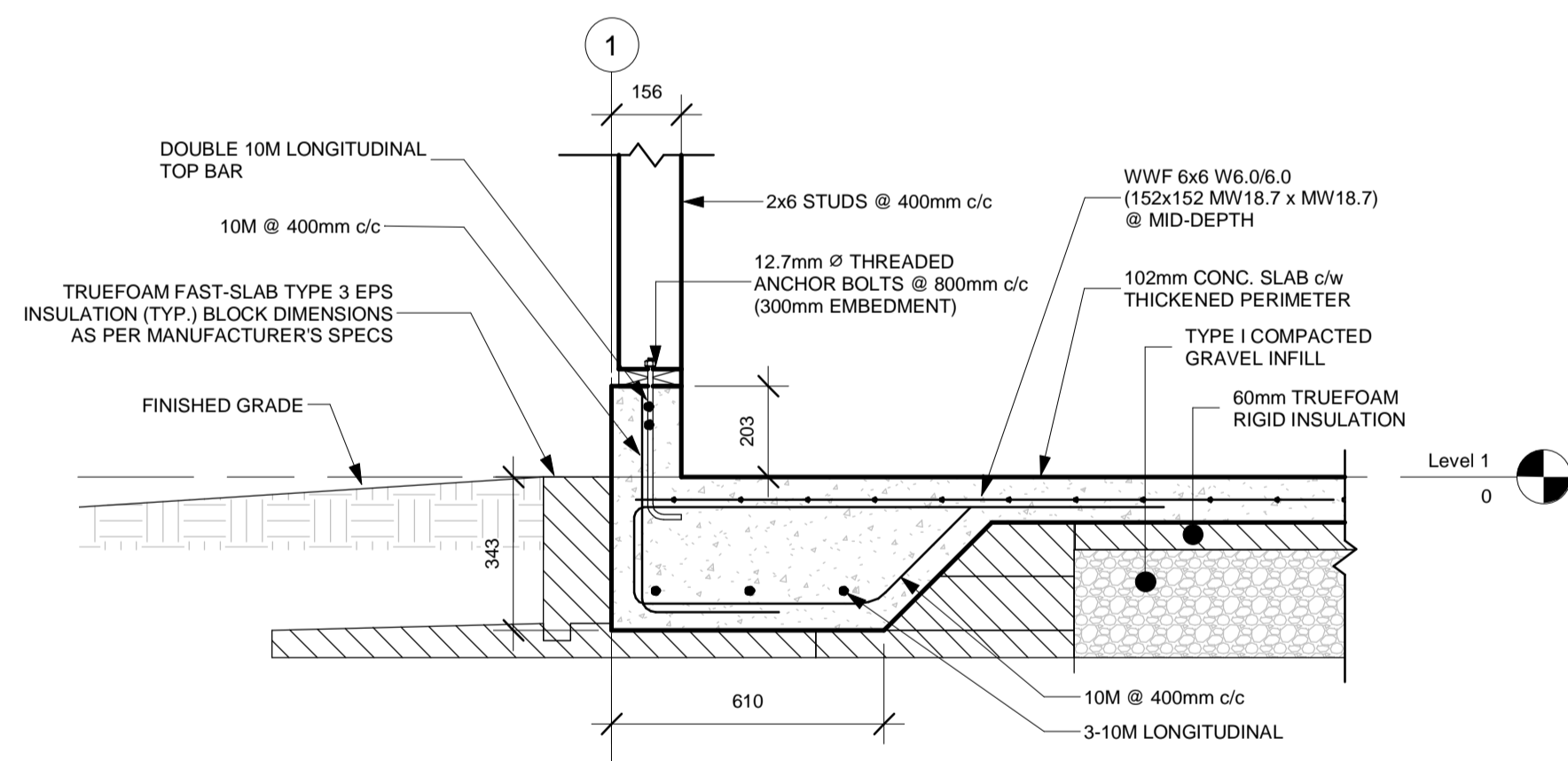
**3D PERSPECTIVE & NOTES**

Drawn A. MCCracken	Engineer E. TEASDALE	Project No. 21-235	Drawing No. <b>S-100</b>
Scale	Filename 21-235_S.rvt	1 of 5	

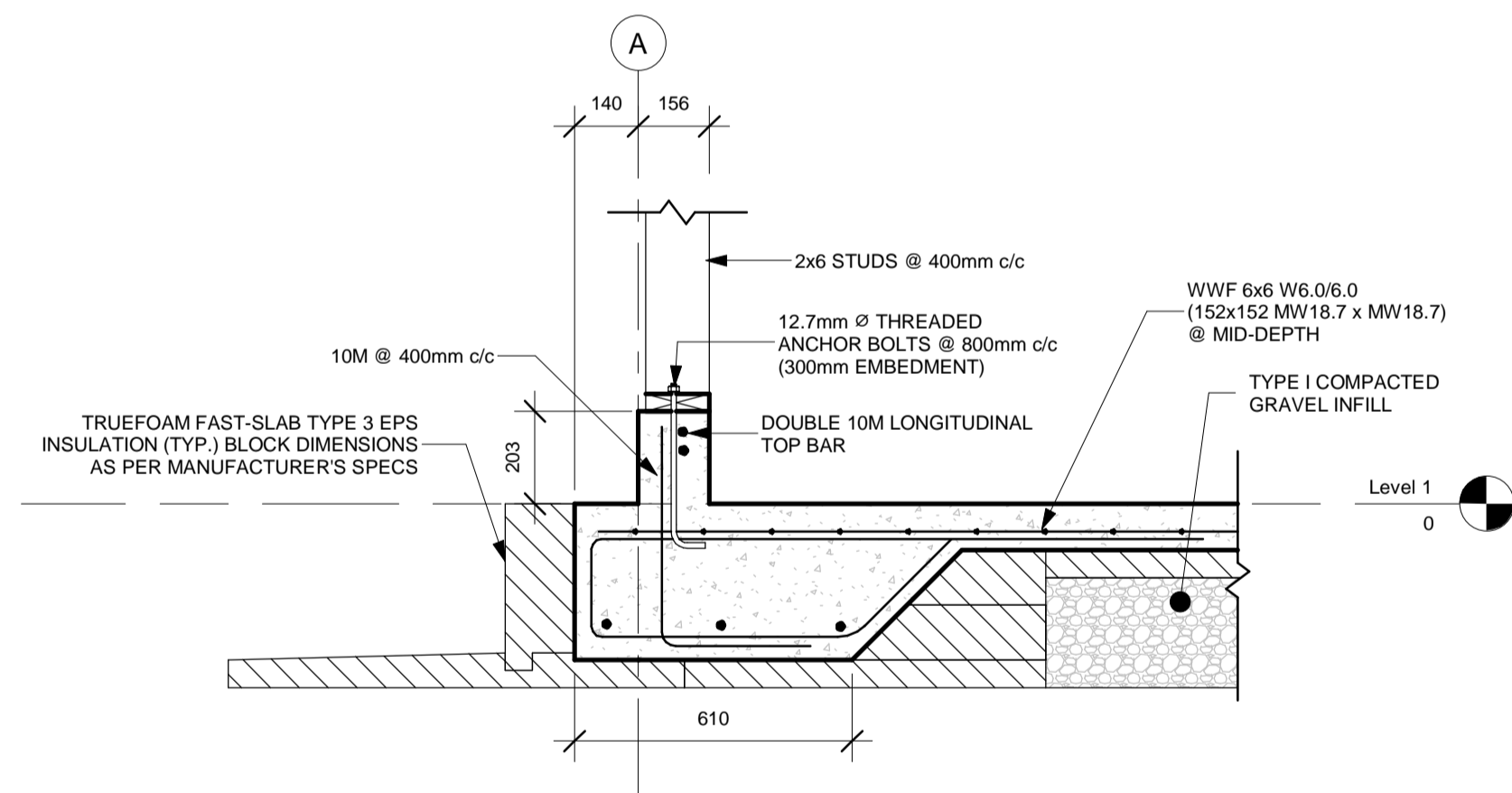




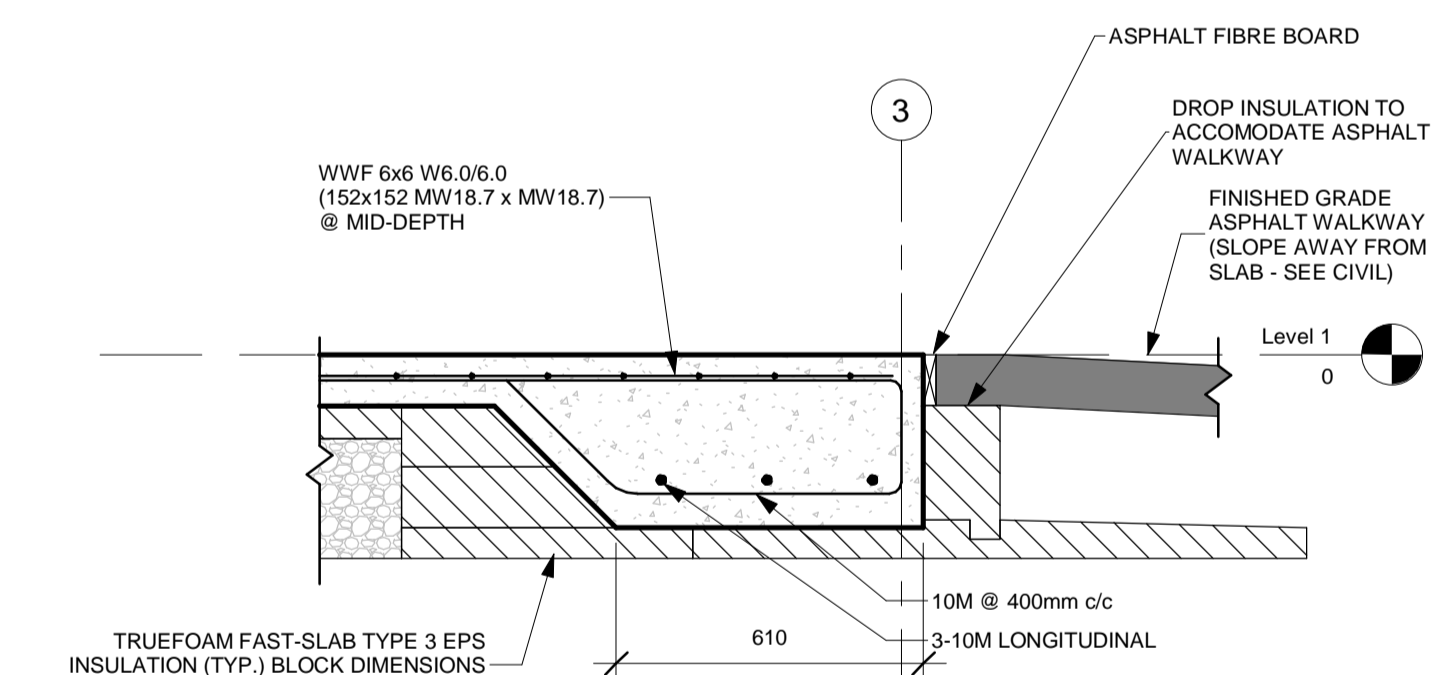
**1** FOUNDATION PLAN  
S-101 1:50



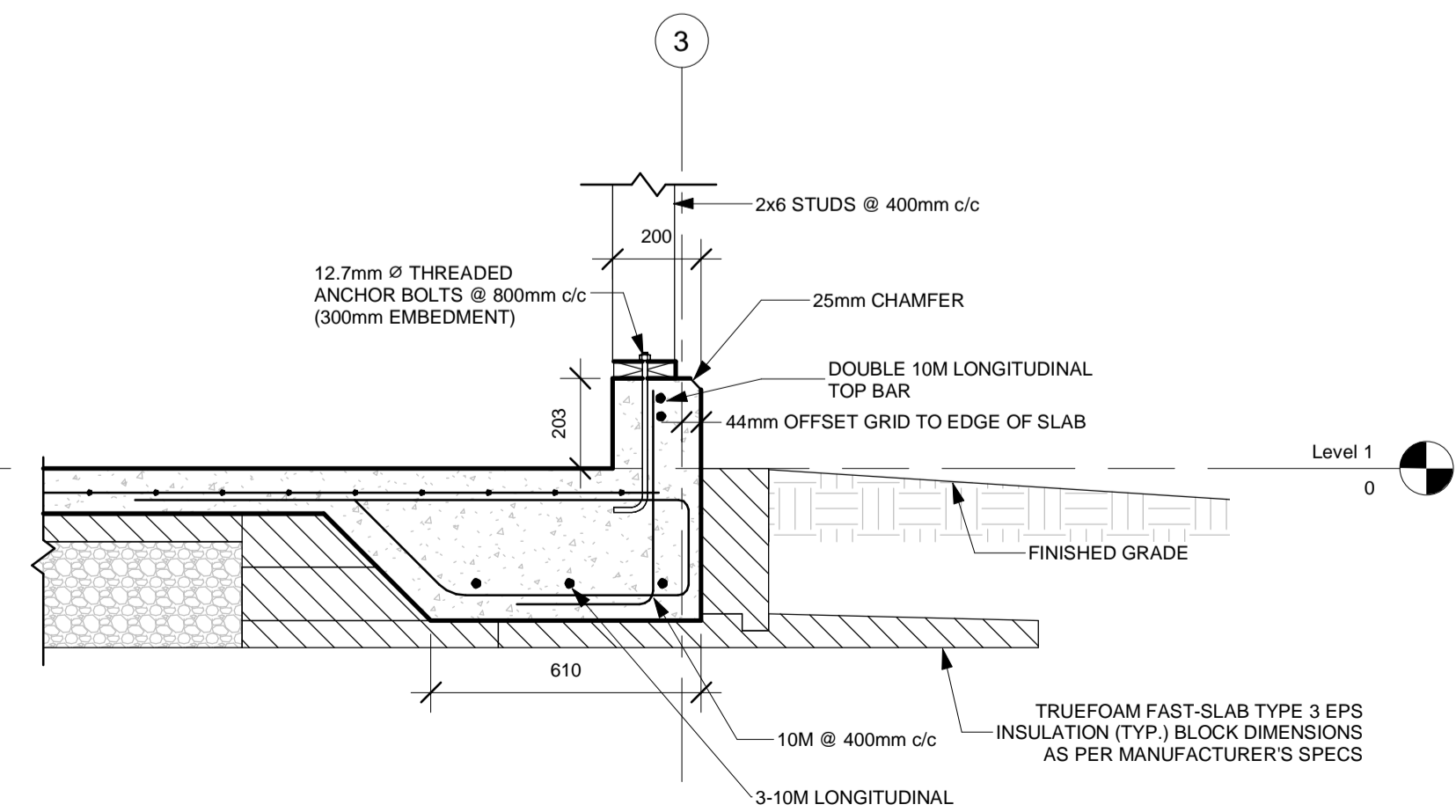
**2** THICKENED SLAB DETAIL @ EW2  
S-101 1:15



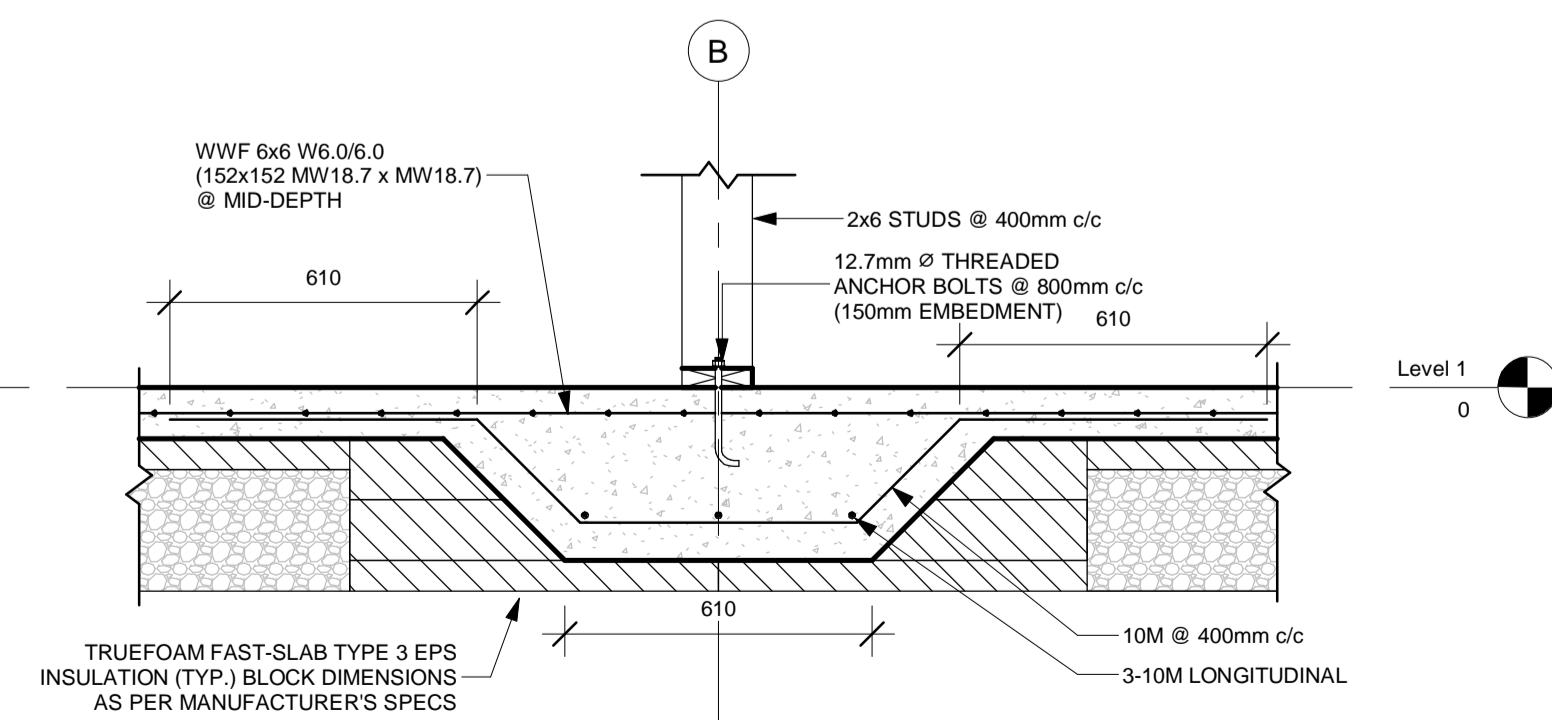
**3** THICKENED SLAB DETAIL @ EW1  
S-101 1:15



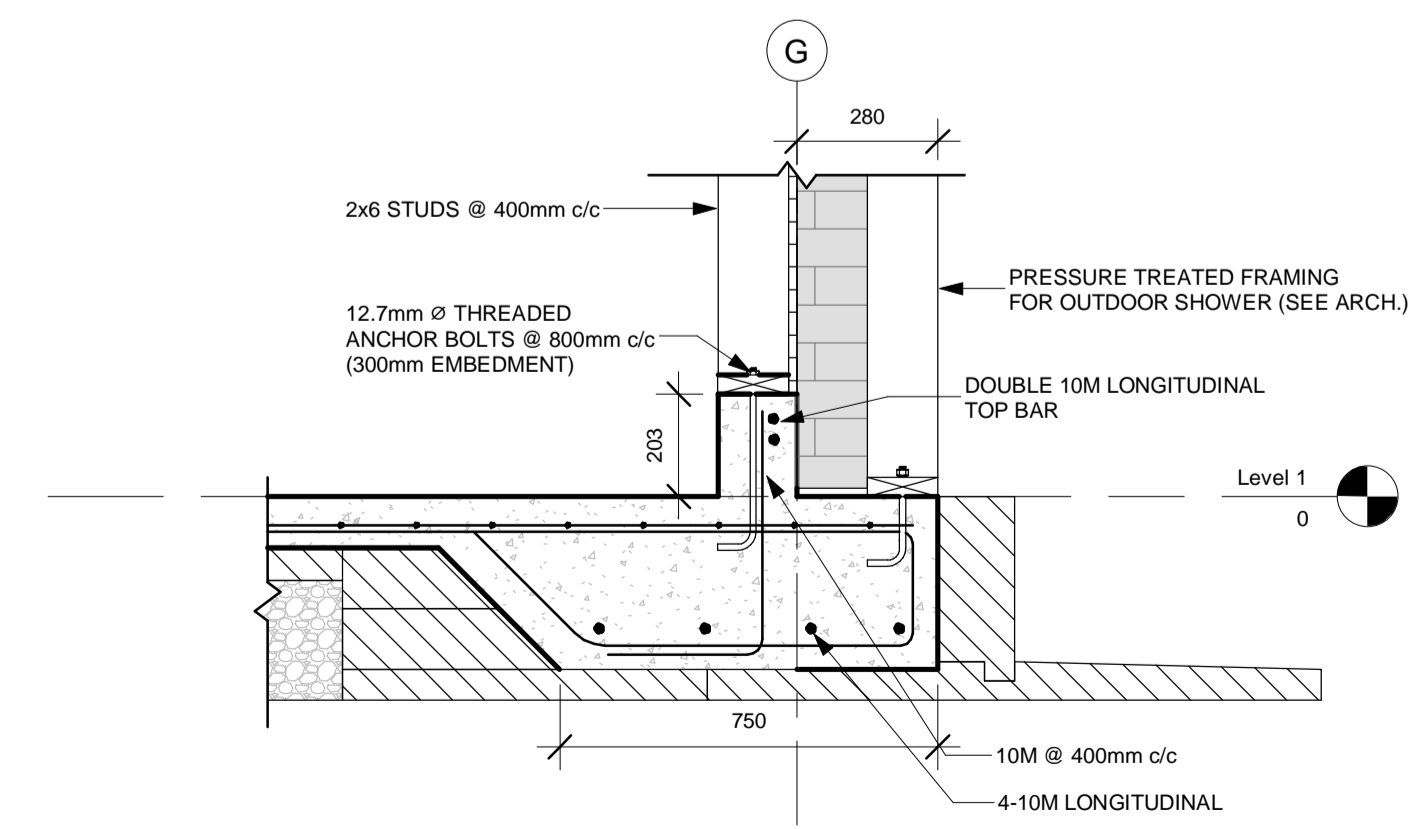
**4** THICKENED SLAB AT ASPHALT PATH  
S-101 1:15



**5** THICKENED SLAB AT FRONT WALL  
S-101 1:15



**6** INTERNAL THICKENED SLAB  
S-101 1:15



**7** THICKENED SLAB EXTENSION  
S-101 1:15

ISSUE	DATE	DESCRIPTION
3	04/03/2022	ISSUED FOR TENDER
2	05/01/2022	ISSUED FOR 90% REVIEW
1	14/10/2021	ISSUED FOR 50% REVIEW

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MUNICIPALITY OF THE  
COUNTY OF KINGS

PROJECT DESCRIPTION

AYLESFORD LAKE BEACH  
WASHROOMS

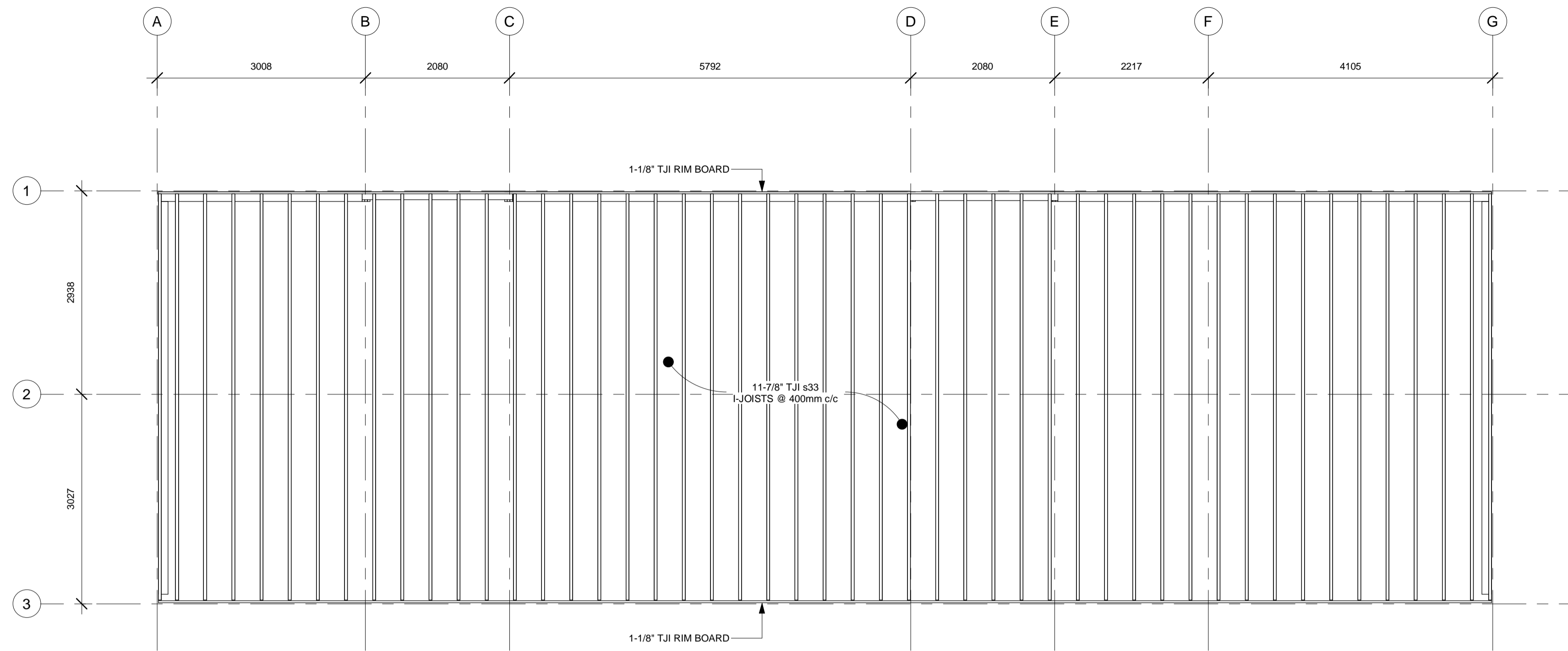
AYLESFORD, NOVA SCOTIA

SHEET DESCRIPTION

FOUNDATION PLAN

Drawn A. MCCracken	Engineer E. TEASDALE	Project No. 21-235	Drawing No. <b>S-101</b>
Scale As Indicated	Filename 21-235_S.rvt		2 of 5

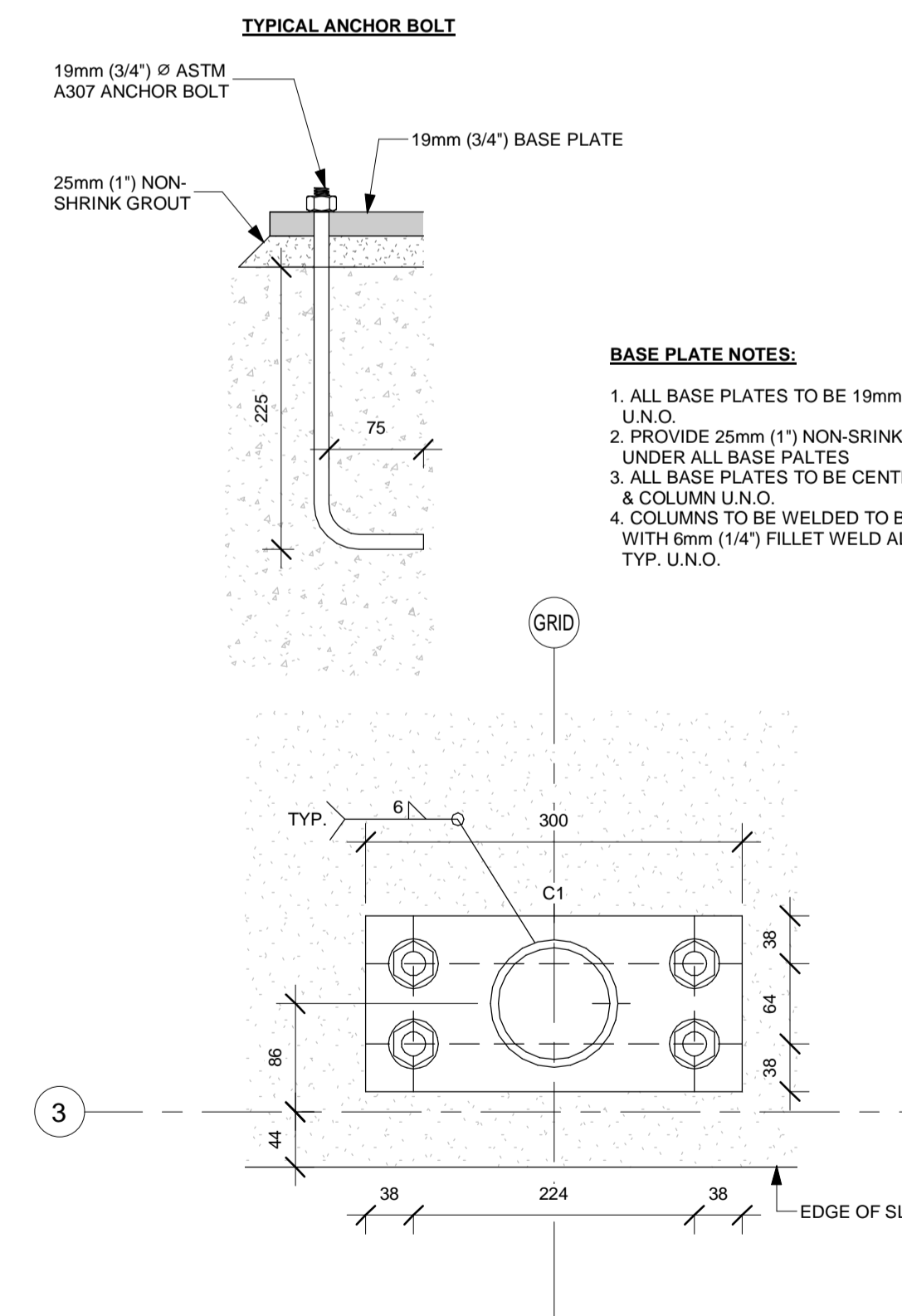
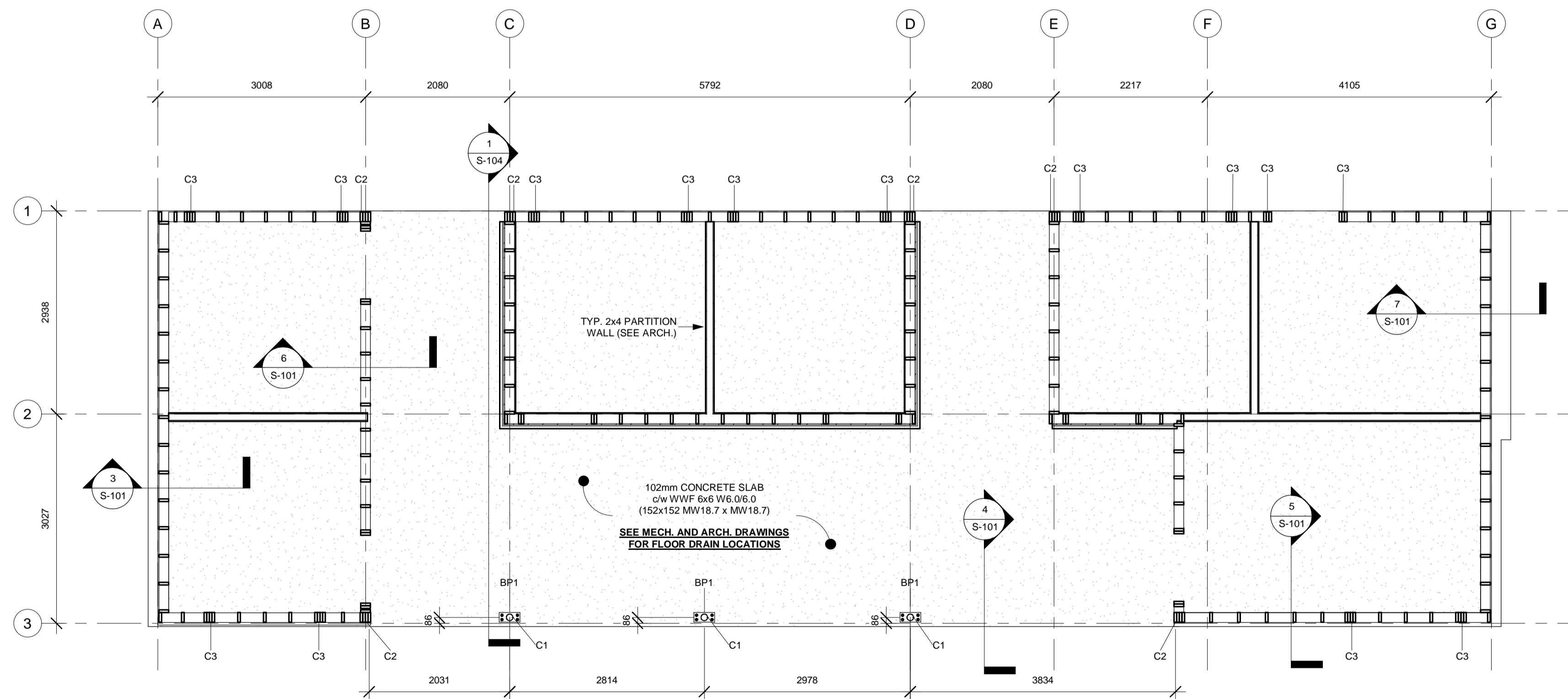




Structural Column Schedule		
Type Mark	Type	Description
C1	HS102x6.4	CSA G40.21 350W
C2	4-Ply 38x140	3 JACK, 1 KING, SPF No. 2
C3	3-Ply 38x140	2 JACK, 1 KING, SPF No. 2

Structural Framing Schedule		
Type Mark	Type	Description
B1	5.25" x 9.5"	3100Fb-2.1E (BOISE CASCASE VERSA-LAM)
B2	3-Ply 2x10	SPF No. 2
B3	3-Ply 2x8	SPF No. 2

**1** ROOF FRAMING PLAN  
S-102 1:50



**3** BP1  
S-102 1:5

**2** LEVEL 1 FRAMING PLAN  
S-102 1:50

ISSUE	DATE	DESCRIPTION
3	04/03/2022	ISSUED FOR TENDER
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1	14/10/2021	ISSUED FOR 50% REVIEW

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PROJECT DESCRIPTION

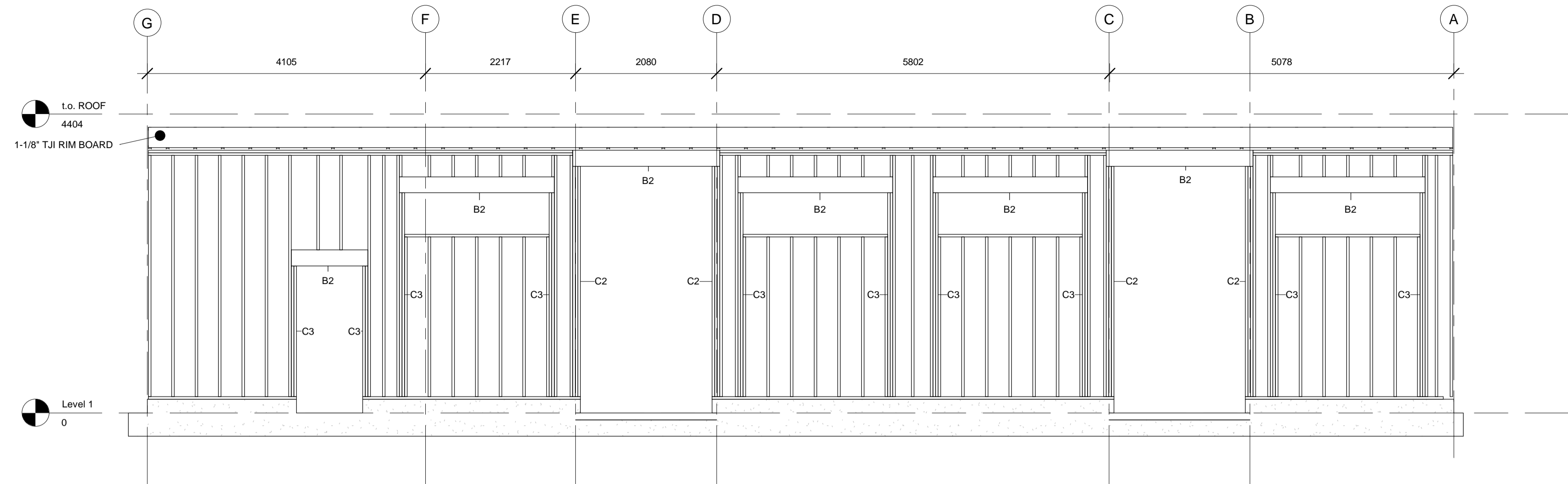
AYLESFORD LAKE BEACH  
WASHROOMS

AYLESFORD, NOVA SCOTIA

SHEET DESCRIPTION

FRAMING PLANS

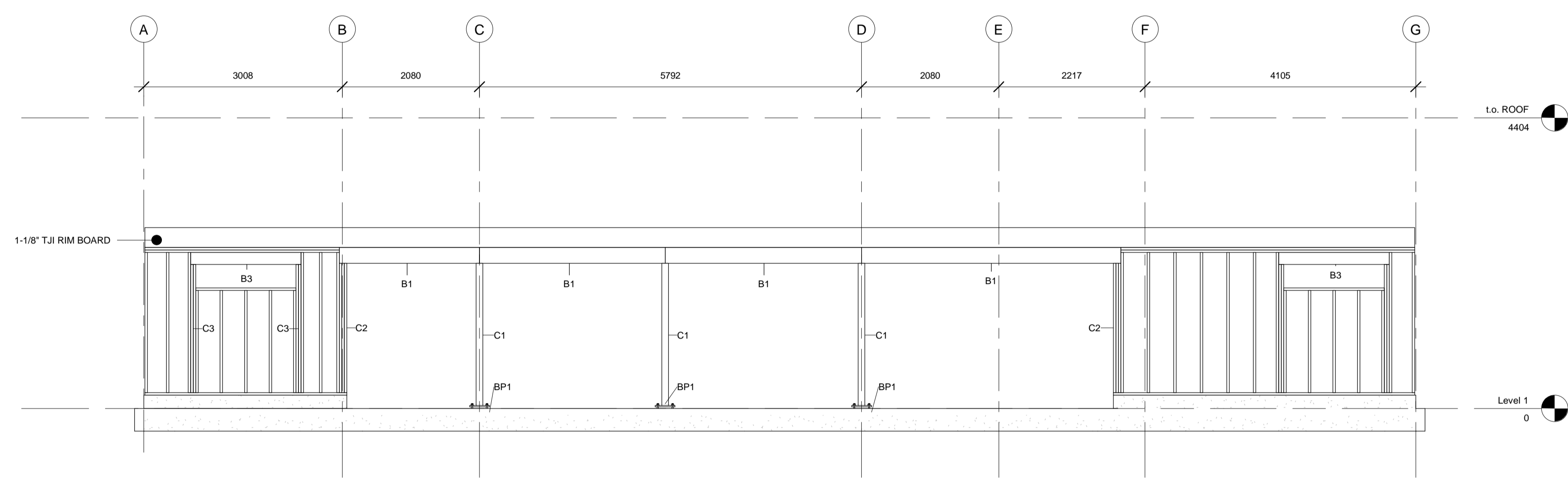
Drawn A. MCCracken	Engineer E. TEASDALE	Project No. 21-235	Drawing No. S-102
Scale As Indicated	Filename 21-235_S.rvt		3 of 5



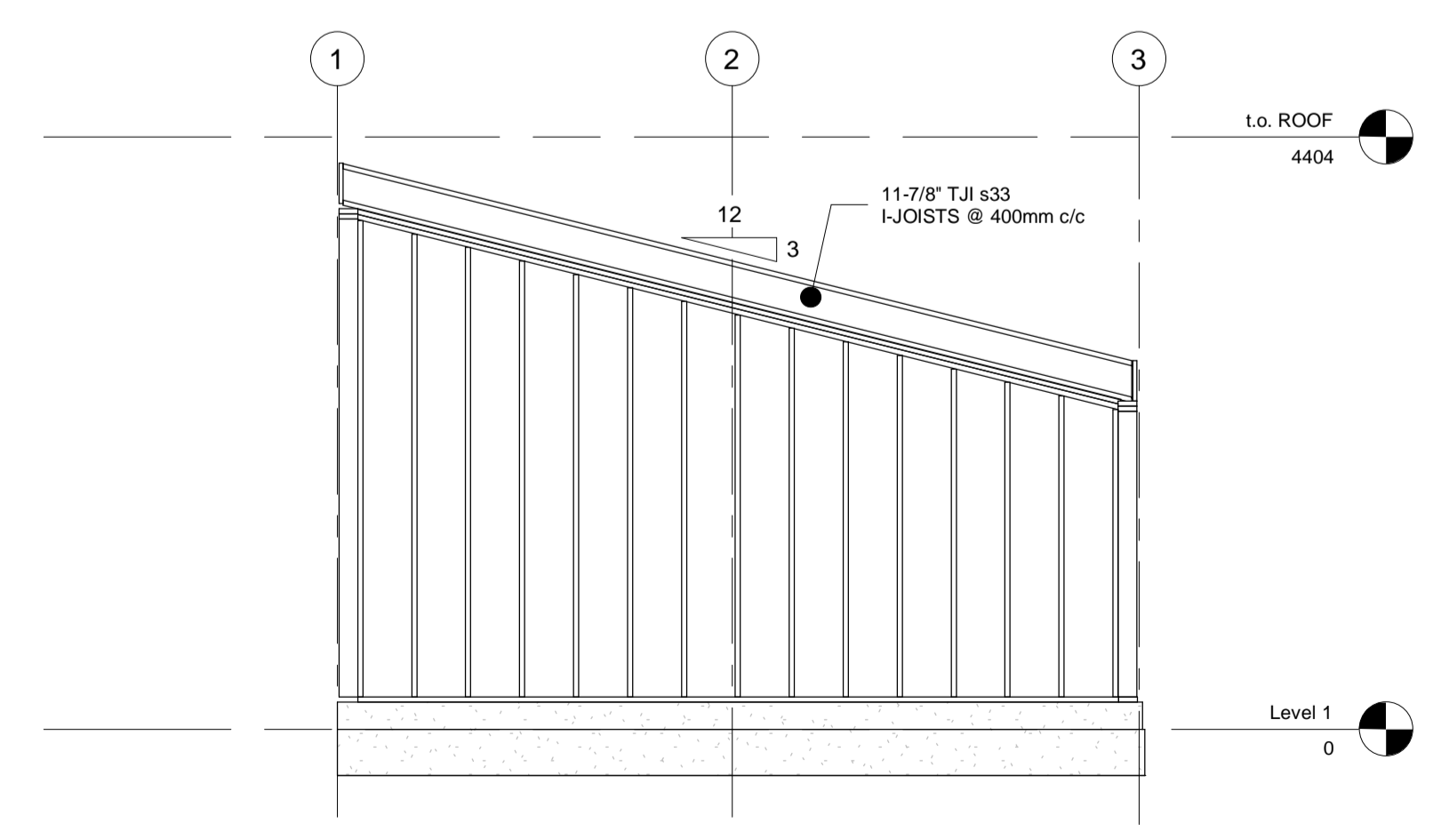
Structural Column Schedule		
Type Mark	Type	Description
C1	HS102x6.4	CSA G40.21 350W
C2	4-Ply 38x140	3 JACK, 1 KING, SPF No. 2
C3	3-Ply 38x140	2 JACK, 1 KING, SPF No. 2

Structural Framing Schedule		
Type Mark	Type	Description
B1	5.25' x 9.5"	3100Fb-2.1E (BOISE CASCASE VERSA-LAM)
B2	3-Ply 2x10	SPF No. 2
B3	3-Ply 2x6	SPF No. 2

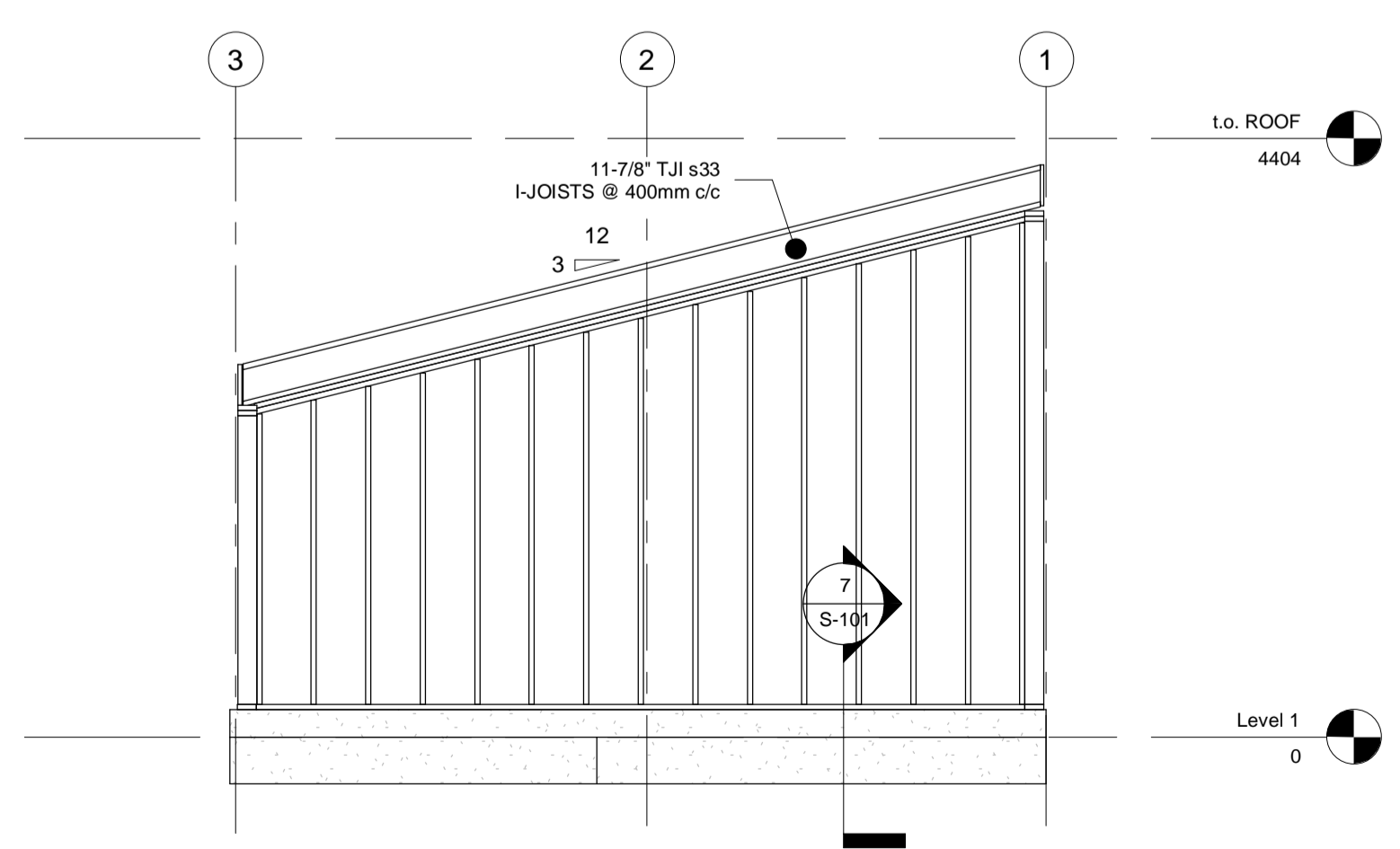
**1**  
S-103  
GRID 1  
1:50



**2**  
S-103  
GRID 3  
1:50



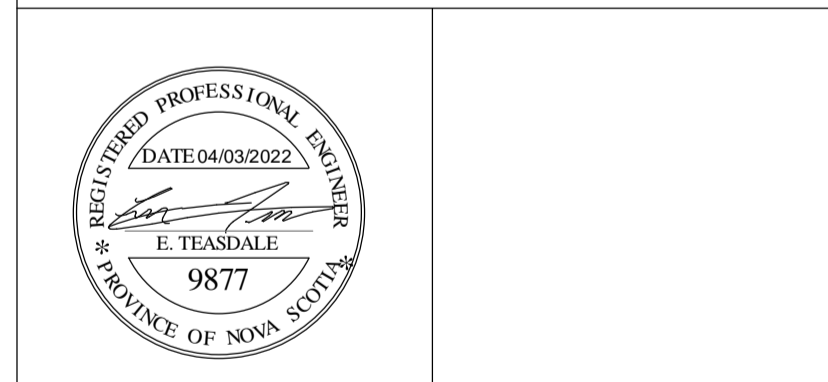
**3**  
S-103  
GRID A  
1:50



**4**  
S-103  
GRID G  
1:50

ISSUE	DATE	DESCRIPTION
3	04/03/2022	ISSUED FOR TENDER
2	05/01/2022	ISSUED FOR 90% REVIEW
1	14/10/2021	ISSUED FOR 50% REVIEW

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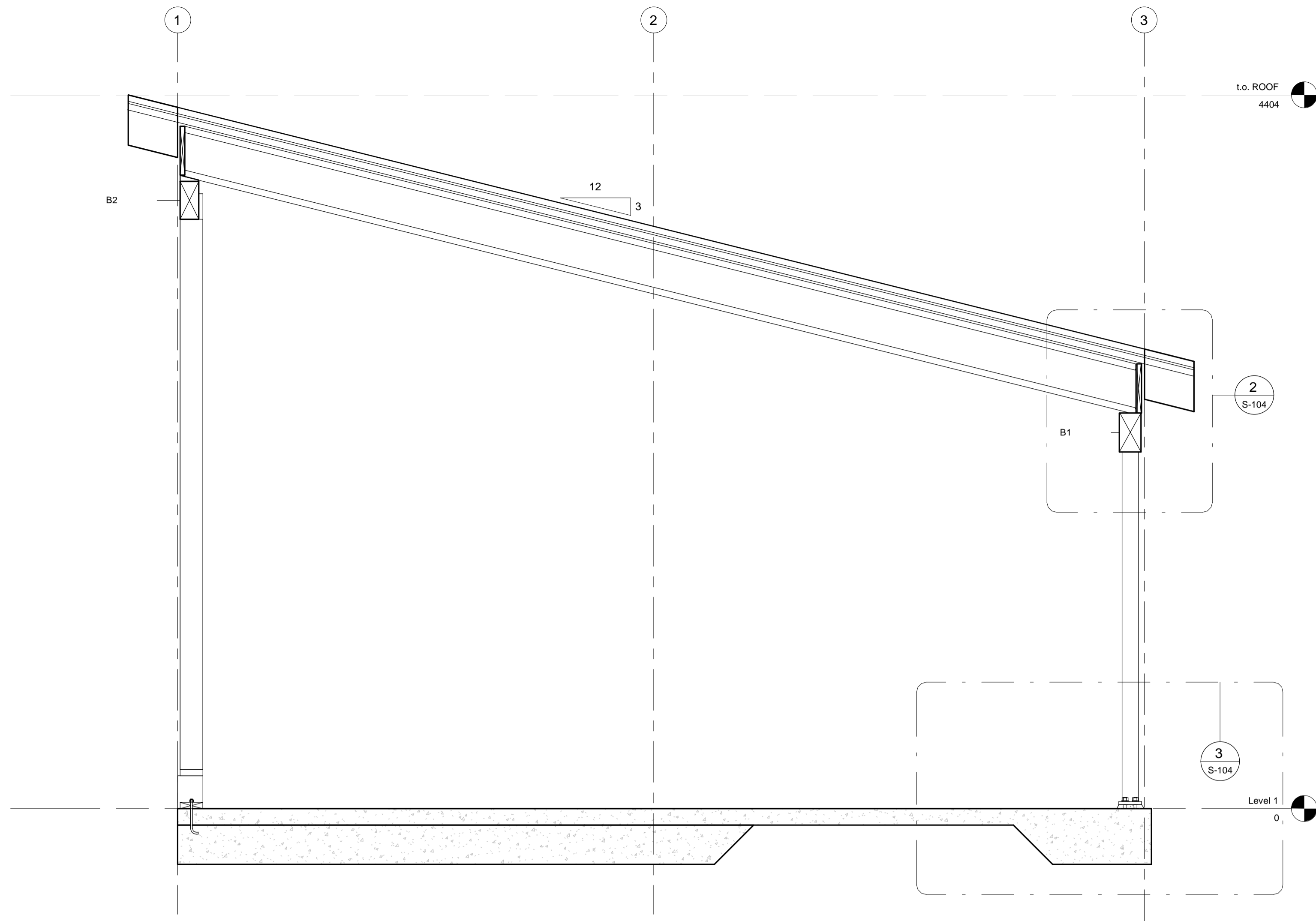
CLIENT  
**MUNICIPALITY OF THE  
COUNTY OF KINGS**

PROJECT DESCRIPTION  
**AYLESFORD LAKE BEACH  
WASHROOMS**  
AYLESFORD, NOVA SCOTIA

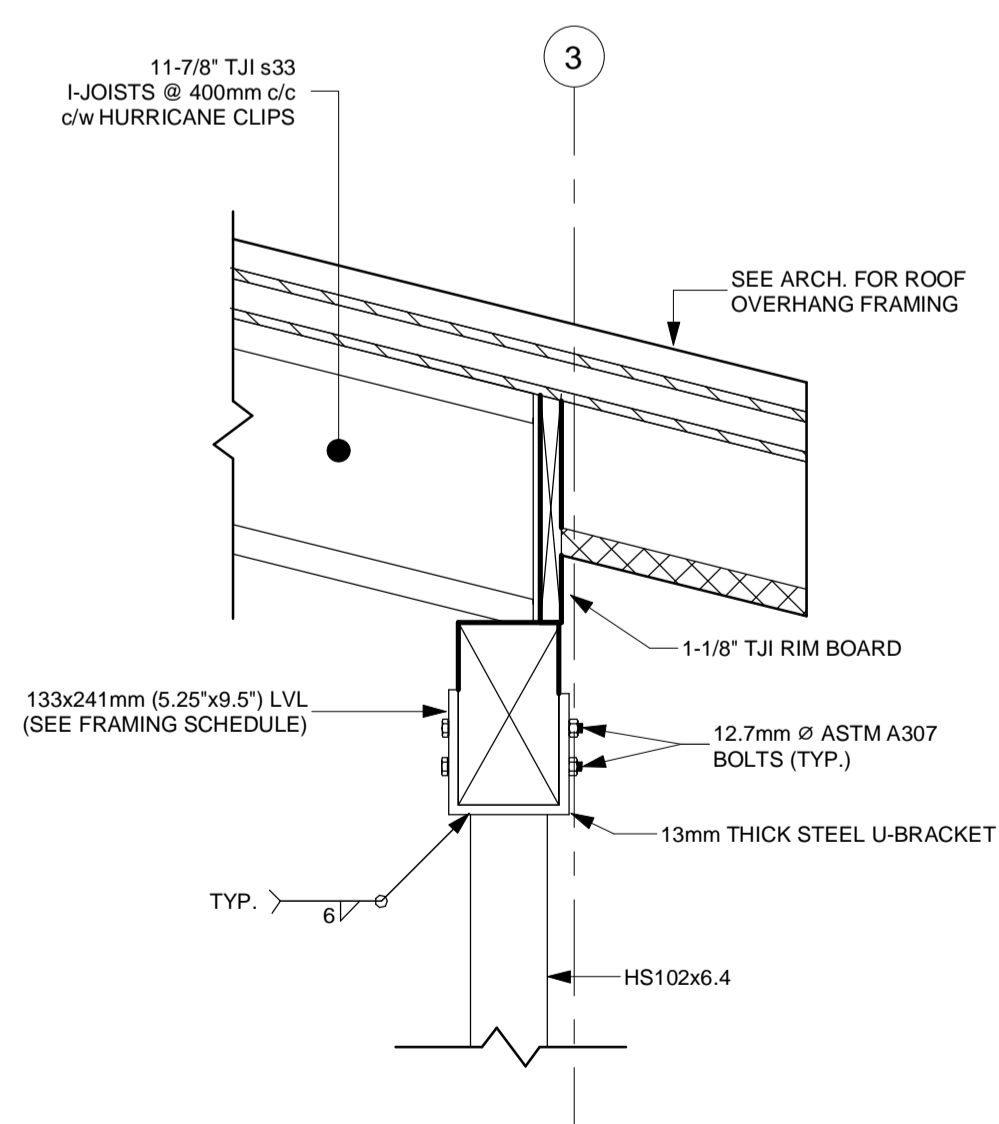
SHEET DESCRIPTION  
**GRID ELEVATIONS**

Drawn A. MCCracken	Engineer E. TEASDALE	Project No. 21-235	Drawing No. <b>S-103</b>
Scale 1:50	Filename 21-235_S.rvt		4 of 5

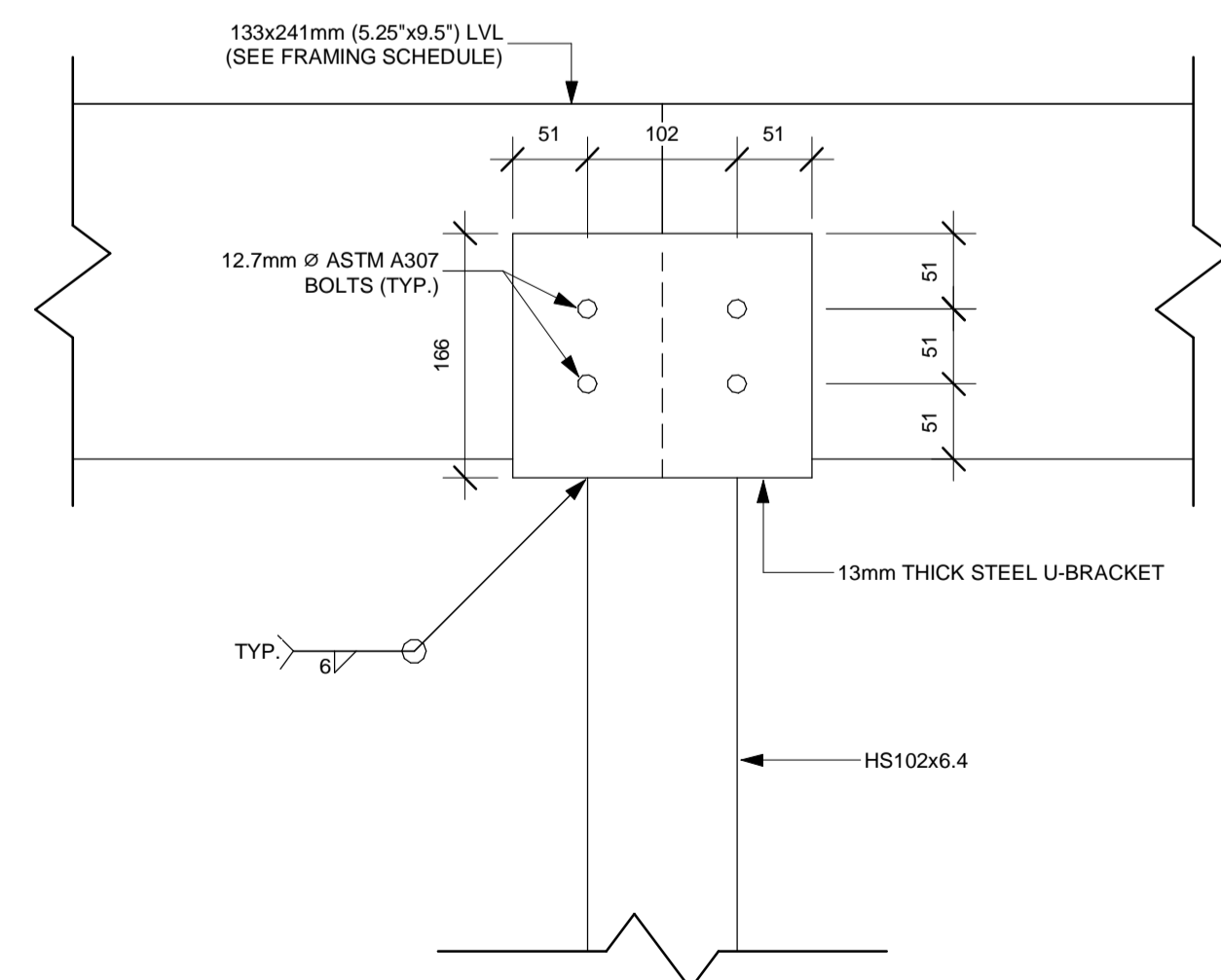




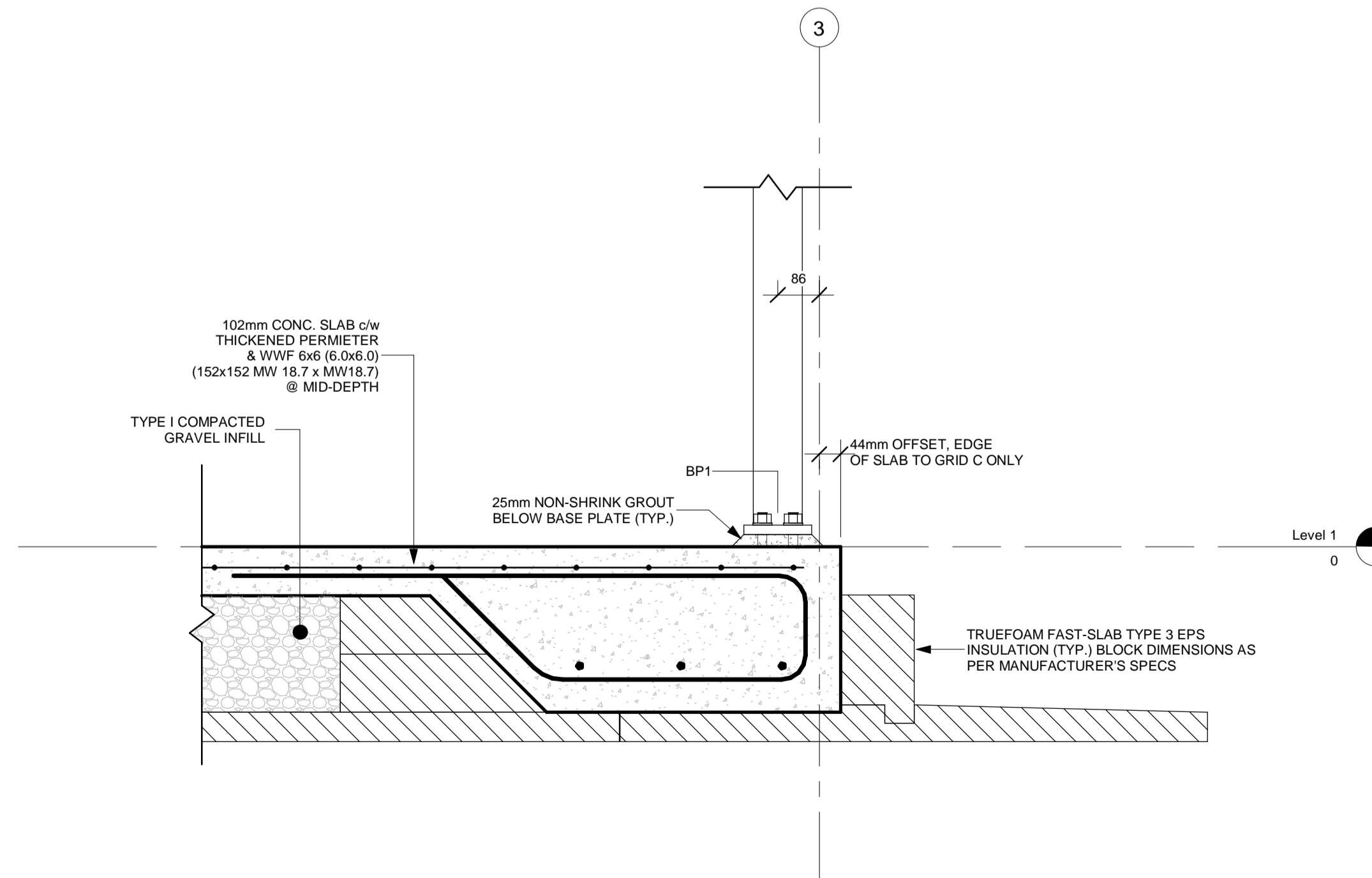
**1 BUILDING SECTION**  
S-104 1:20



**2 ROOF AT BEAM**  
S-104 1:10



**4 ROOF AT BEAM - ELEV.**  
S-104 1:5



**3 PERIMETER BASE PLATE**  
S-104 1:10

ISSUE	DATE	DESCRIPTION
3	04/03/2022	ISSUED FOR TENDER
2	05/01/2022	ISSUED FOR 90% REVIEW
1	14/10/2021	ISSUED FOR 50% REVIEW

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**MUNICIPALITY OF THE  
COUNTY OF KINGS**

PROJECT DESCRIPTION

**AYLESFORD LAKE BEACH  
WASHROOMS**

AYLESFORD, NOVA SCOTIA

SHEET DESCRIPTION

**STRUCTURAL DETAILS**

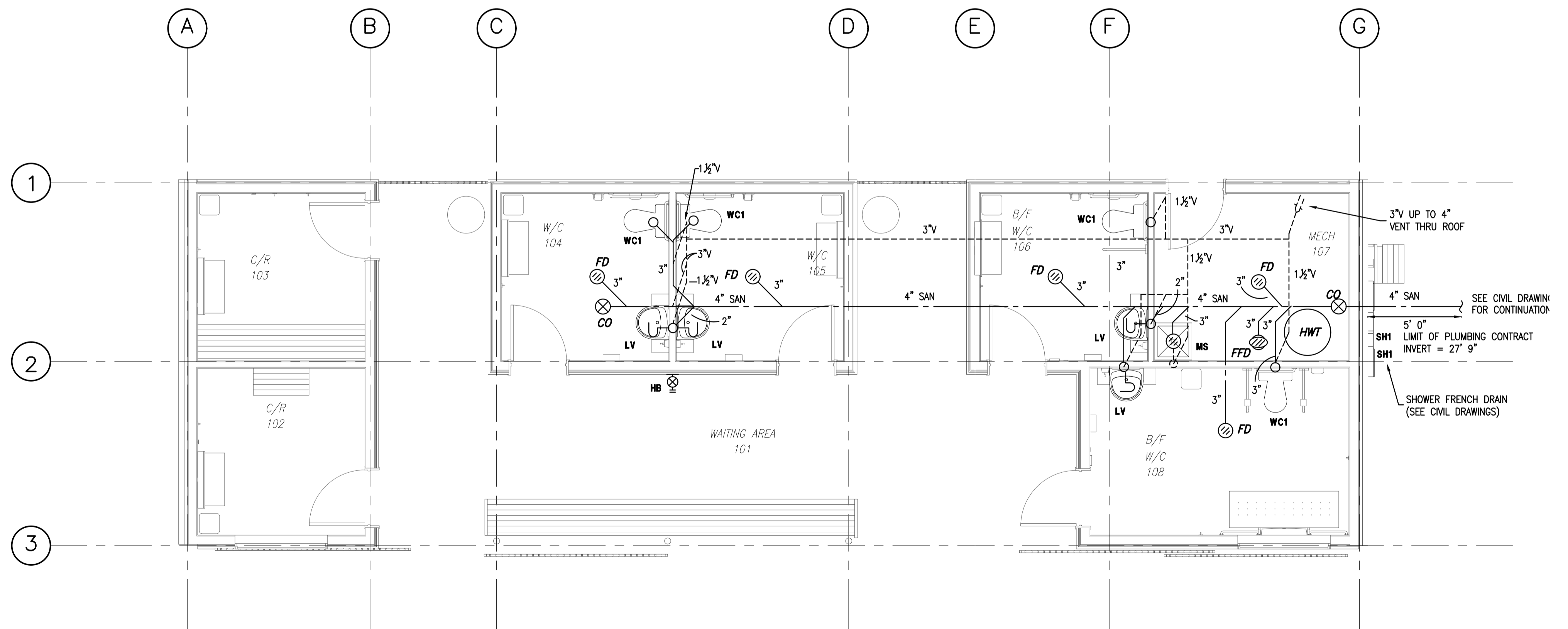
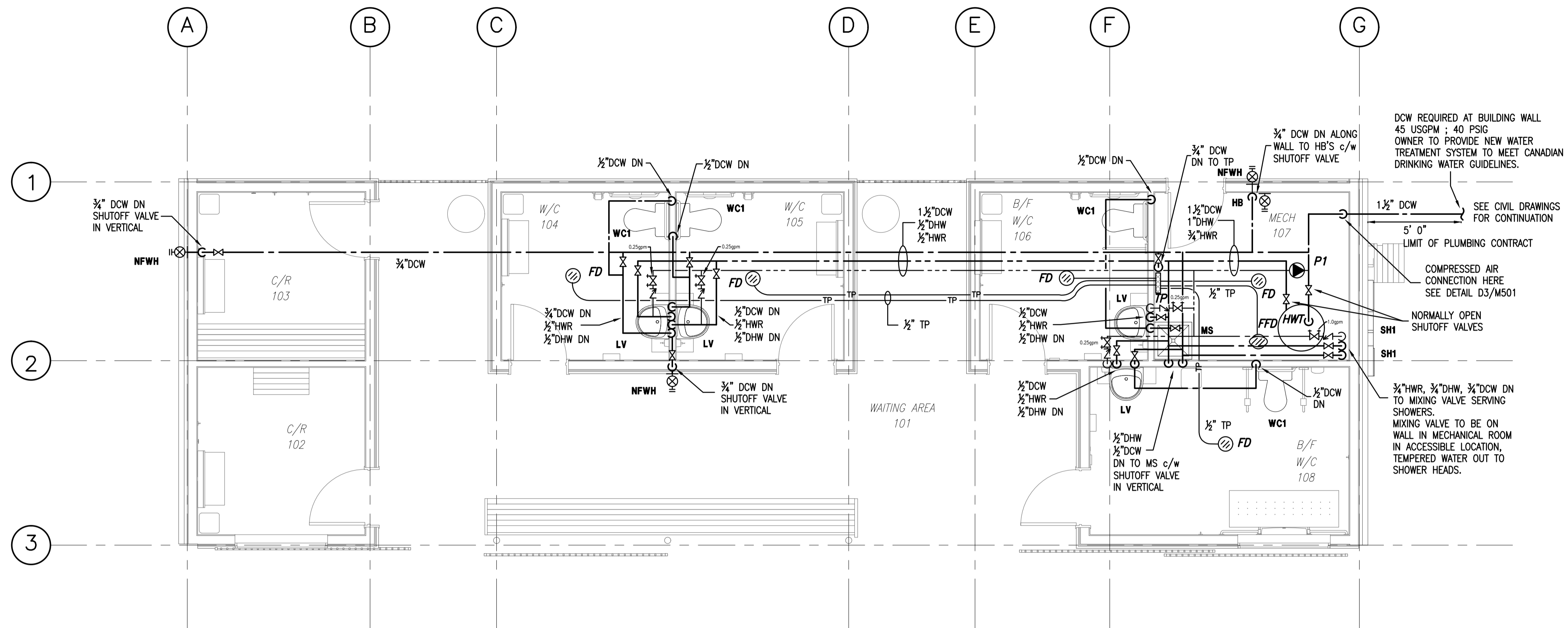
Drawn A. MCCracken	Engineer E. TEASDALE	Project No. 21-235	Drawing No. <b>S-104</b> 5 of 5
Scale As indicated	Filename 21-235_S.rvt		

### PLUMBING LEGEND

SYMBOL	DESCRIPTION
---	DOMESTIC COLD WATER (DCW)
---	DOMESTIC HOT WATER (DHW)
---	HOT WATER RECIRC. (HWR)
---	SANITARY WASTE LINE (SAN)
---	SANITARY VENT (V) (VENT)
---	PIPE DOWN (DN)
---	PIPE UP (UP)
---	PIPE CLEAN OUT (C.O.)
---	SAN. WASTE "P" TRAP
---	FLOOR DRAIN (FD)
---	FUNNEL FLOOR DRAIN (FFD)
---	SAN. VENT THRU ROOF (MIN. 4")
NFWH	NON-FREEZE WALL HYDRANT
HB	HOSE BIB (HB)
---	PLUMBING FIXTURE
WC1	PLUMBING FIXTURE DESIGNATION
---	SHUT-OFF VALVE
---	CONTROL BALANCING VALVE
---	THERMOMETER
---	CHECK VALVE
---	STRAINER
---	PIPE UNION
---	PRESS. GAUGE c/w VALVE COCK
HWT.1	EQUIPMENT TAG
1099	ROOM NUMBER

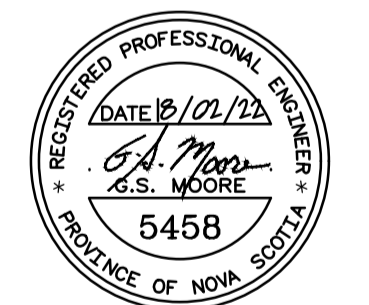
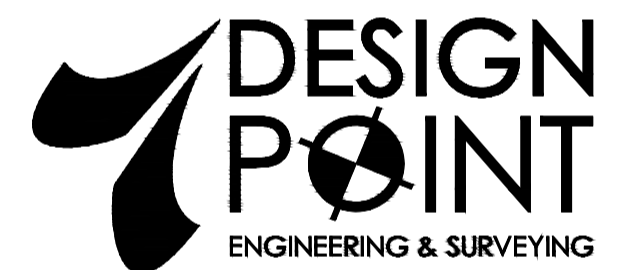
### PLUMBING NOTES

- INSTALL ALL PIPING AS PER THE 2015 NATIONAL PLUMBING CODE.
- COORDINATE LOCATIONS & ROUTING OF PLUMBING PIPING WITH OTHER TRADES.
- PROVIDE WATER HAMMER ARRESTORS (WHA'S) FOR PLUMBING FIXTURE GROUPS OR INDIVIDUAL FIXTURES PER THE 2015 NPC.
- ALL FLOOR DRAINS AND FUNNEL FLOOR DRAINS SHALL BE TRAP PRIMED.
- INSULATE AND IDENTIFY ALL PIPING AS INDICATED.
- DHW AND DCW SUPPLY TO ALL PLUMBING FIXTURES TO INCLUDE SHUTOFF VALVE, HWR TO INCLUDE BALANCING VALVE AND CHECK VALVE.
- HORIZONTAL SANITARY DRAINAGE PIPING SHALL BE SLOPED 2%.
- SLOPE DOMESTIC WATER PIPING TO DRAINS AT ALL LOW POINTS IN SYSTEM. PROVIDE LOW POINT DRAINS c/w HOSE THREAD DRAIN VALVE AND CAP WHERE NECESSARY TO DRAIN ALL PIPING AND FIXTURES.
- STARTING INVERT FOR SANITARY PIPING SHALL BE MINIMUM 18" BELOW SLAB (- 18").
- LEAD-FREE PLUMBING PRODUCTS AND MATERIALS SHALL BE PROVIDED.
- DOMESTIC HOT WATER MAXIMUM SETPOINTS:
  - STORAGE = 140°F
  - DISTRIBUTION = 120°F
  - TO FIXTURES = 100°F
- EXTERIOR BELOW GRADE STORM AND SHOWER DRAINAGE PIPING BY CIVIL CONTRACTOR.
- INSULATE ALL DCW, DHW, AND HWR PIPE WITH 1" PRE-FORMED FIBERGLASS INSULATION c/w PVC JACKET. DCW PIPE TO BE c/w VAPOUR BARRIER.
- OWNER TO PROVIDE NEW POTABLE WATER TREATMENT SYSTEM IN ORDER TO SUPPLY DOMESTIC COLD WATER (40 PSIG ; 45 USGPM) TO THE BUILDING THAT MEETS CANADIAN DRINKING WATER GUIDELINES.
  - THIS CONTRACTOR RESPONSIBLE FOR DISCONNECTING EXISTING TREATMENT SYSTEM, INSTALLING NEW EQUIPMENT, AND CONNECTING NEW EQUIPMENT TO EXISTING PIPING.
  - NEW TREATMENT SYSTEM EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND THE 2015 NATIONAL PLUMBING CODE.
  - PROVISIONS SHALL BE MADE TO ALLOW DRAINAGE AND DECOMMISSIONING OF ENTIRE PIPING SYSTEM, INCLUDING TREATMENT EQUIPMENT.
  - THIS CONTRACTOR RESPONSIBLE FOR CONFIRMING SPACE IS AVAILABLE IN MAINTENANCE SHED FOR NEW EQUIPMENT. EQUIPMENT MANUFACTURER TO ADVISE FOOTPRINT OF NEW EQUIPMENT.



ISSUE	DATE	DESCRIPTION
1	2022-02-18	ISSUED FOR TENDER

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CLIENT

MUNICIPALITY OF THE COUNTY OF KINGS

PROJECT DESCRIPTION

AYLESFORD BEACH WASHROOMS

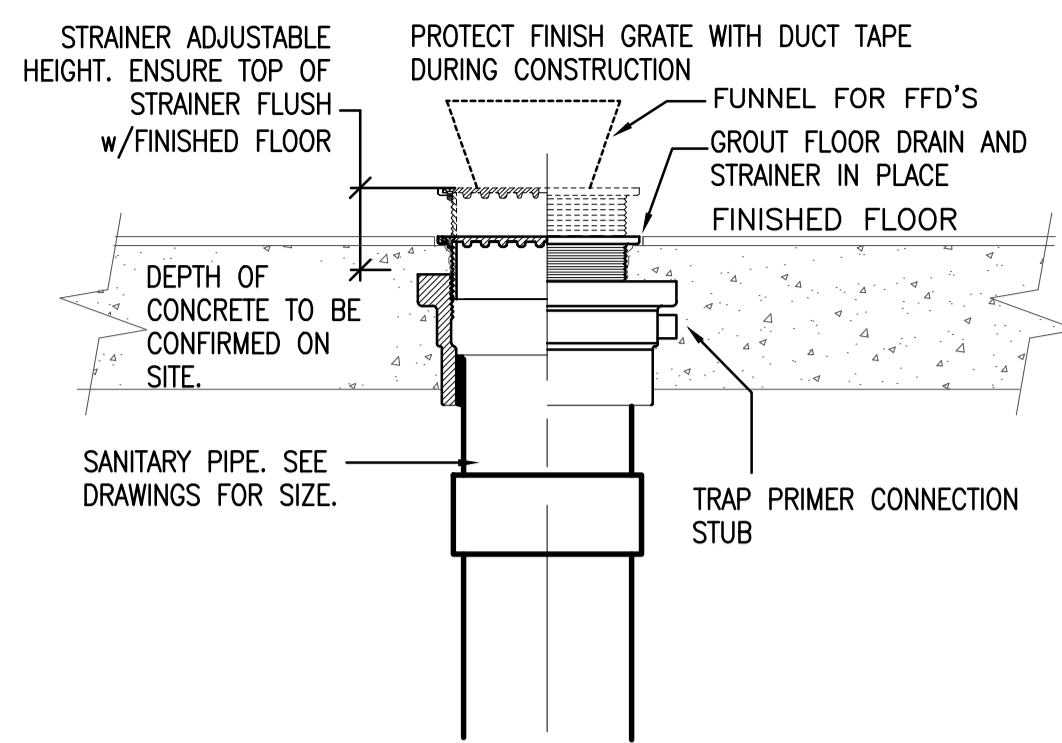
580 N RIVER ROAD, AYLESFORD NS B0P 1C0

SHEET DESCRIPTION

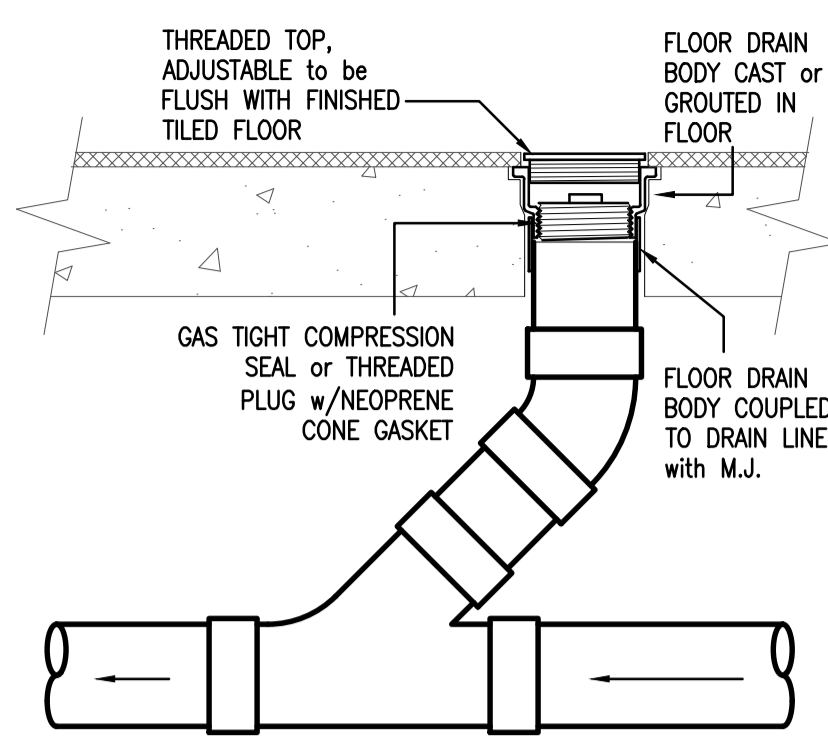
PLUMBING LAYOUTS

Drawn	Engineer	Project No.	Drawing No.
GH	JPS	212330	M-101
Scale	Filename		
AS NOTED			

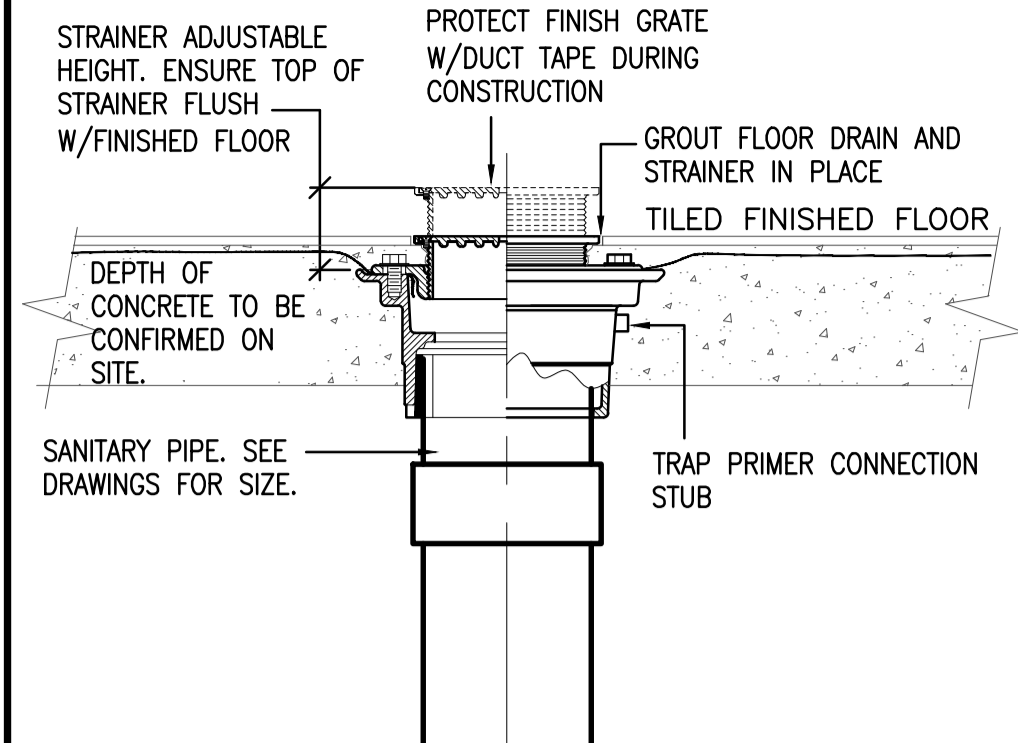




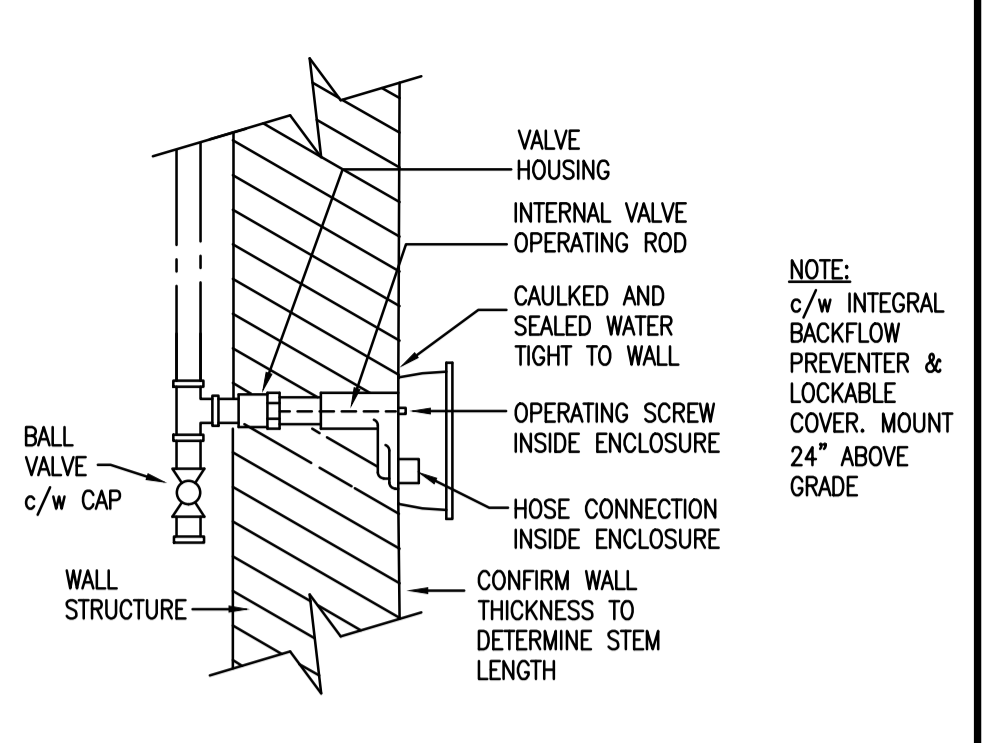
**A1** FUNNEL FLOOR DRAIN  
M501 N.T.S. (FFD)



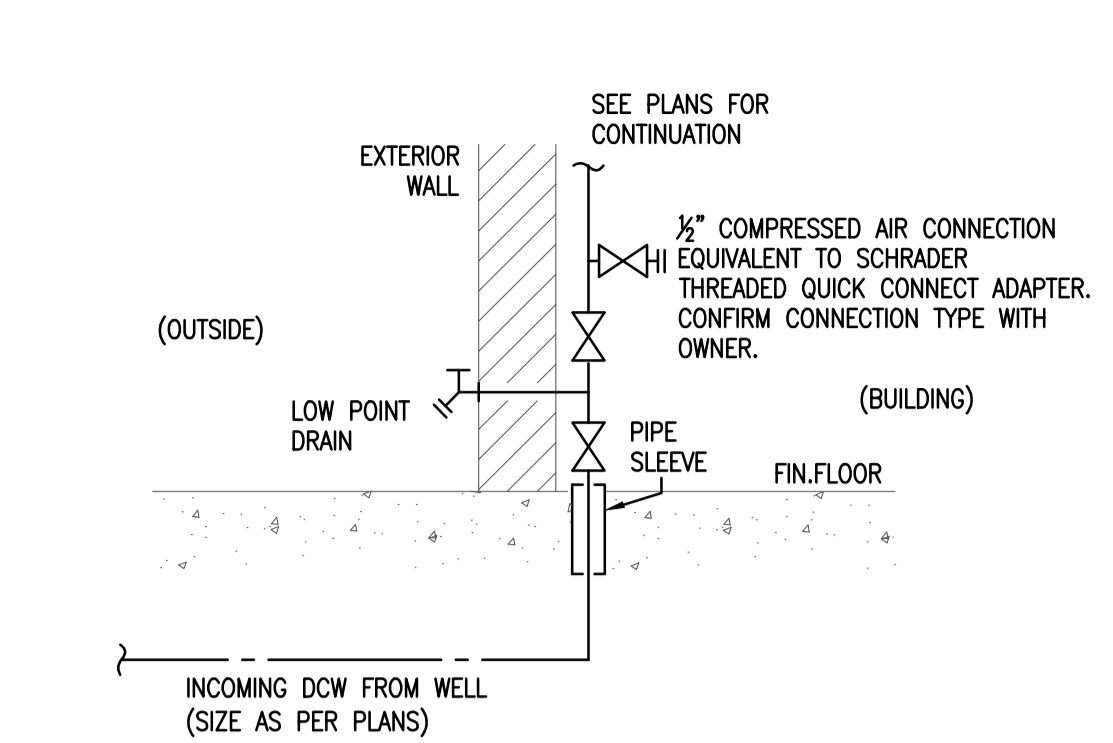
**B1** FLOOR CLEANOUT  
M501 N.T.S. (C.O.)



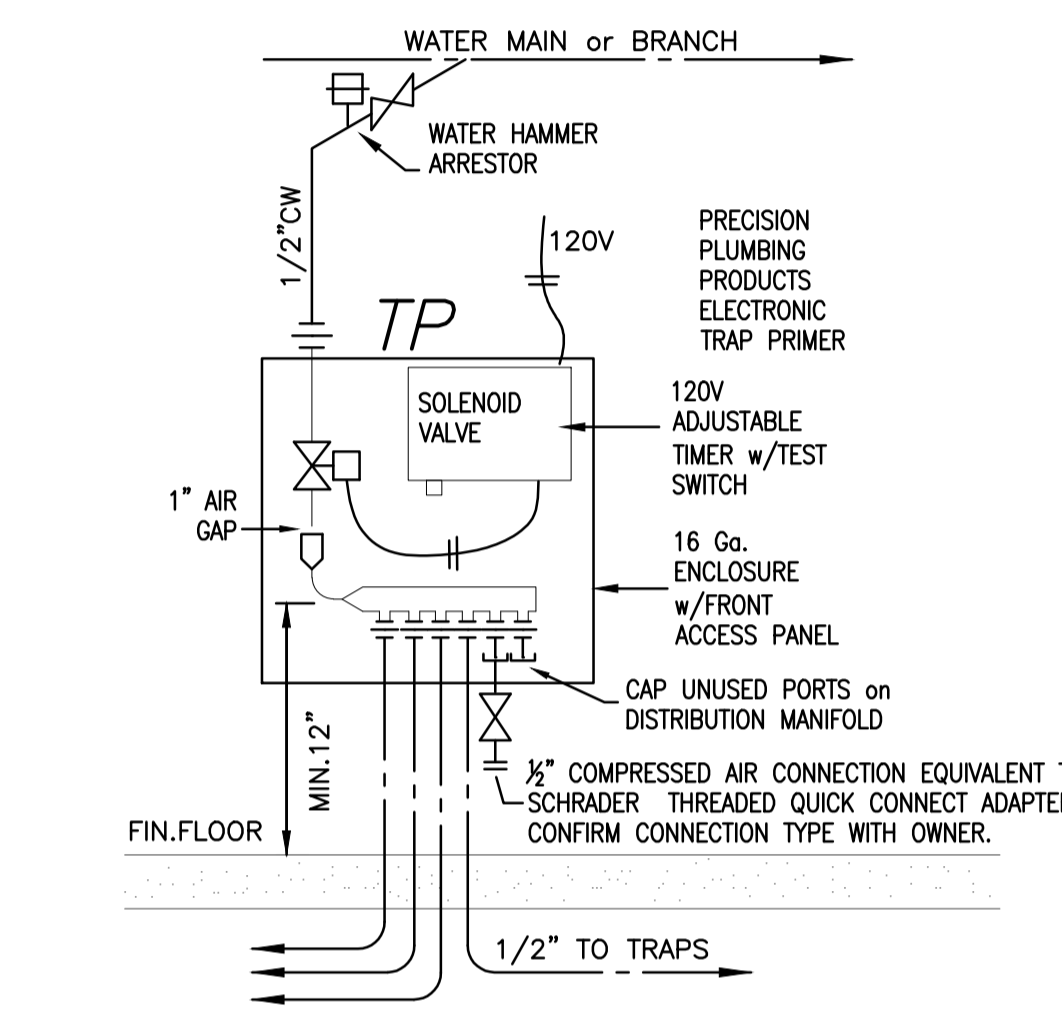
**C1** NEW FLOOR DRAIN  
M501 N.T.S. (FD)



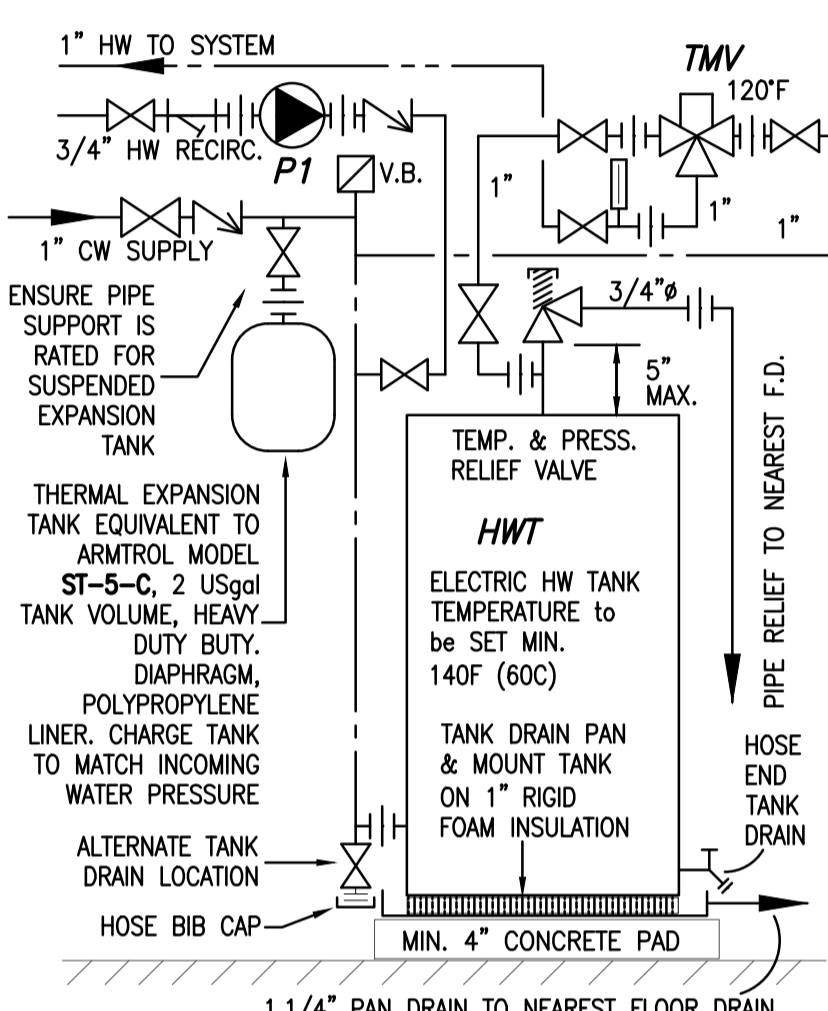
**D1** NON-FREEZE WALL HYDRANT  
M501 N.T.S. (NFWH)



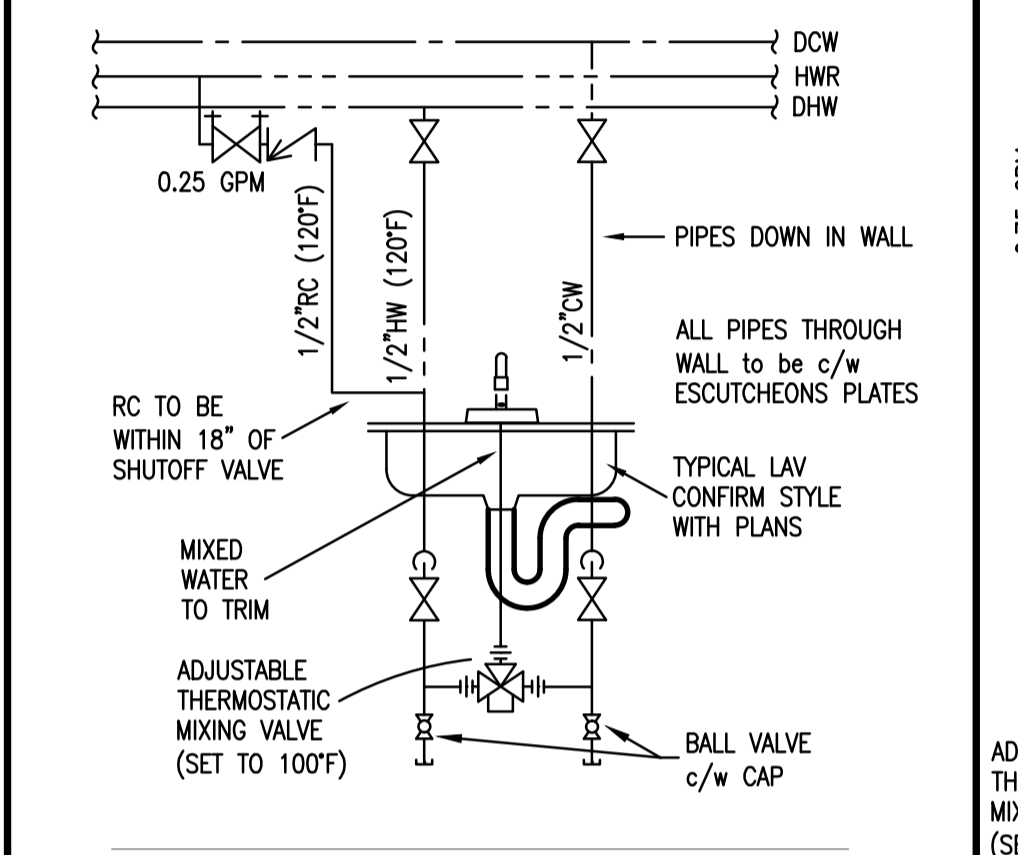
**E1** COMPRESSED AIR CONNECTION  
M501 N.T.S.



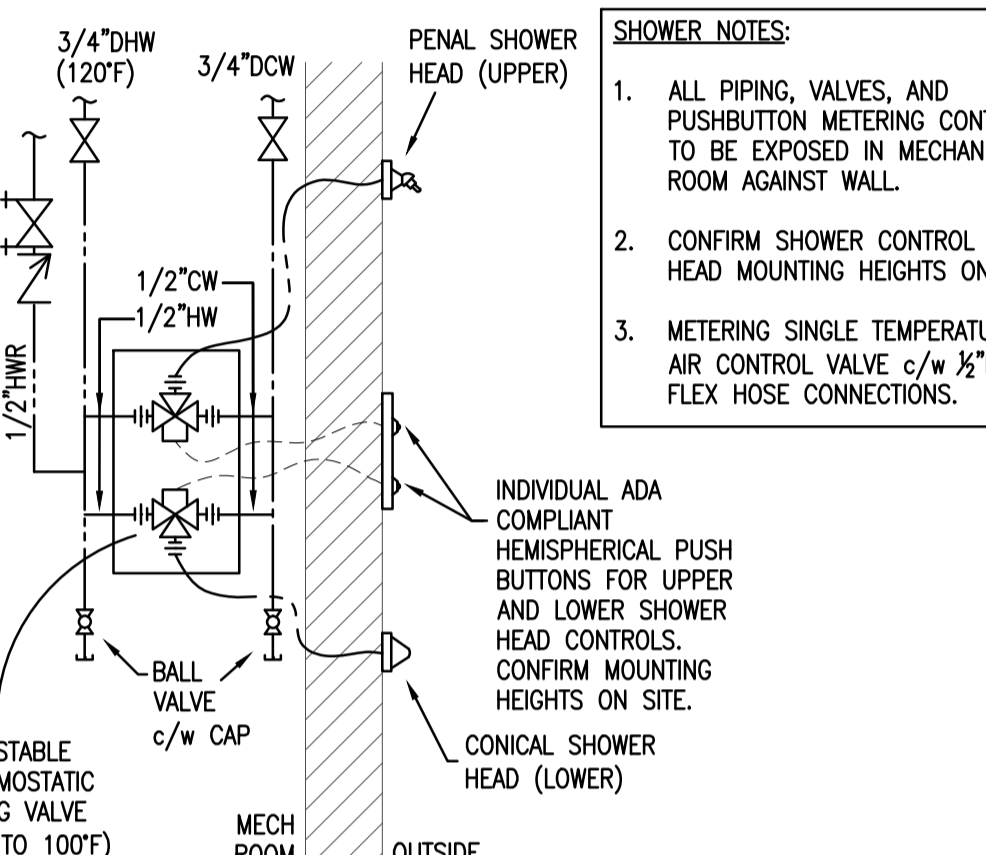
**A2** ELECTRONIC TRAP PRIMER  
M501 N.T.S.



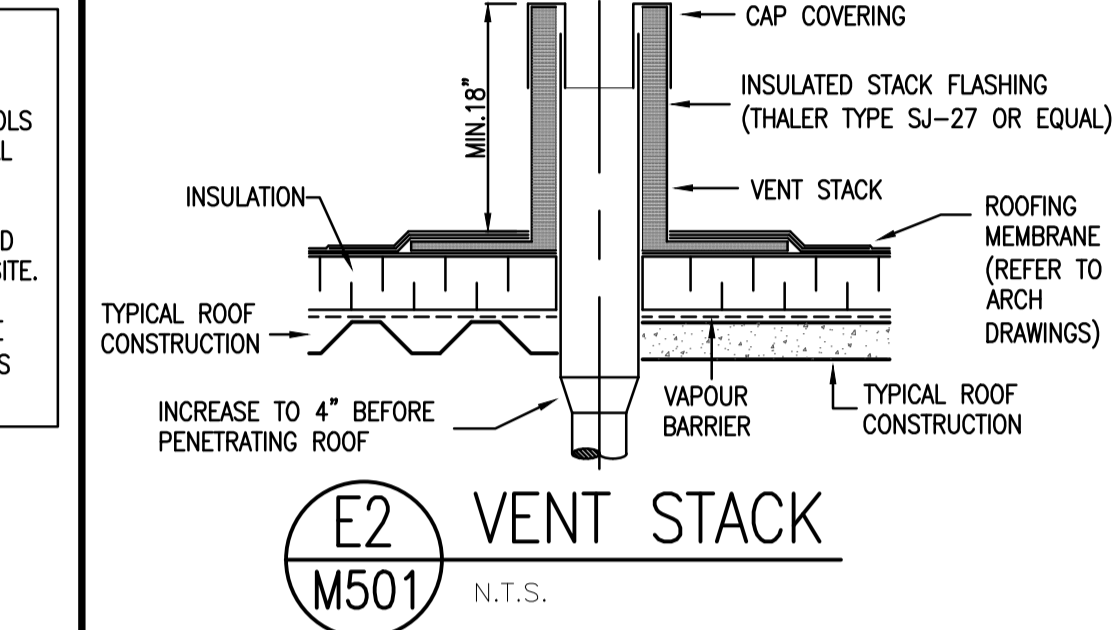
**B2** DOMESTIC H.W.T.  
M501 N.T.S.



**C2** LAV MIXING VALVE  
MP501 N.T.S.

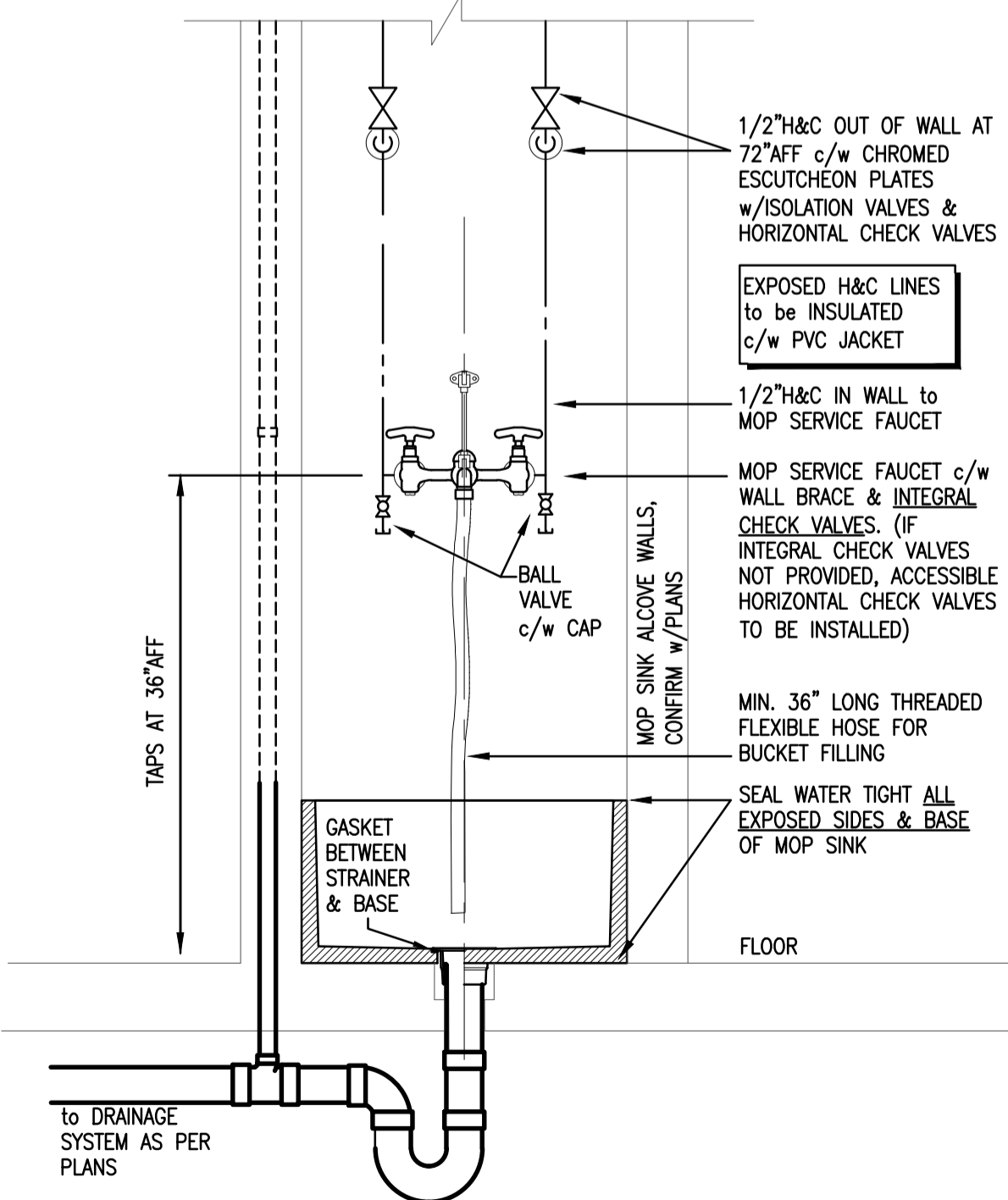


**D2** SHOWER MIXING VALVE  
M501 N.T.S.

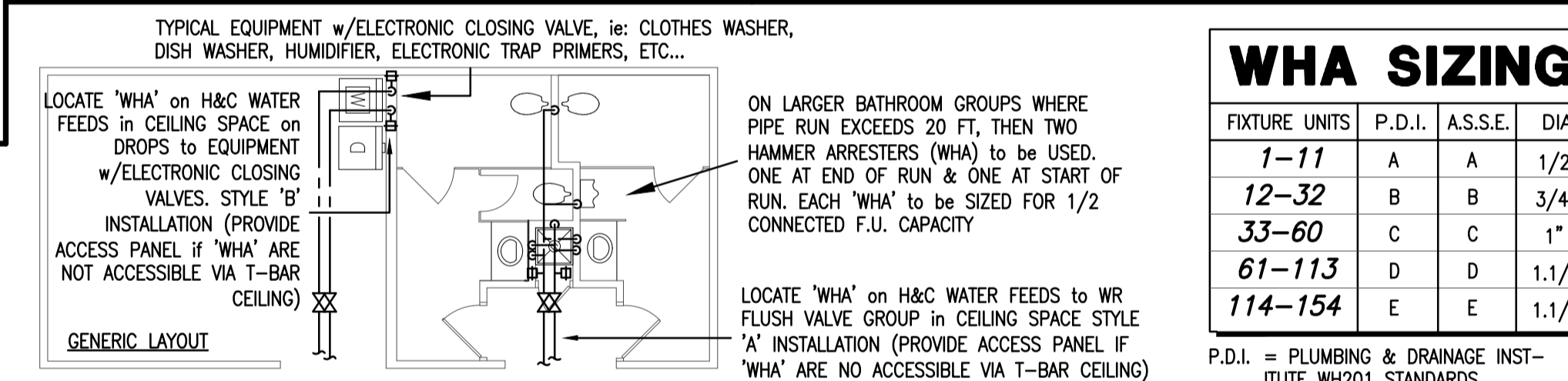


**E2** VENT STACK  
M501 N.T.S.

PLUMBING EQUIPMENT	
TAG	DESCRIPTION
FD	FLOOR DRAIN FINISHED AREAS DURA-COATED CAST IRON DRAIN BODY, WITH 3" ADJUSTABLE NICKEL BRONZE STRAINER c/w TRAP PRIMER CONNECTION. EQUIVALENT TO ZURN MODEL No. ZN211-B
FFD	FUNNEL FLOOR DRAIN DURA-COATED CAST IRON DRAIN BODY, WITH 3" NICKEL BRONZE STRAINER WITH SECURED OPEN THROAT OVAL FUNNEL AND A TRAP PRIMER CONNECTION. EQUIVALENT TO ZURN MODEL No. ZN211-BF
CO	HEAVY DUTY CLEAN OUT DURA-COATED CAST IRON DRAIN BODY, WITH 4" ADJUSTABLE HEAVY DUTY NICKEL BRONZE HEAD AND GASKETED, SECURED SCORATED COVER. EQUIVALENT TO ZURN MODEL No. ZXN1612
TP	PRECISION PLUMBING PRODUCTS SURFACE MOUNTED TRAP PRIMER w/120V SOLENOID VALVE (S.V. TO BE FULL PORT), ADJUSTABLE 24 HOUR TIMER w/ MANUAL OVER RIDE SWITCH, NEMA-1 SURFACE MOUNTED ENCLOSURE, V.B., 3/4" HEADER (No. OF OUTLET PORTS ON HEADER TO SUIT No. OF TRAP PRIMER LINES SHOWN ON PLANS) UN-USED PORTS TO BE CAPPED.
TMV	HIGH-LOW TEMPERATURE MIXING VALVE, EQUAL TO LAWLOR MODEL 802, BRASS CONSTRUCTION, 1" INLETS/1.1/4" OUTLET 0.5gpm MIN. FLOW, 10psi DROP AT 30gpm, ADJUSTABLE TEMPERATURE RANGE 110F-160F, INLET TEMP. TO BE 140F, OUTLET TEMP. TO BE 120F. MOUNT MIXING VALVE ON WALL AT SERVICEABLE HEIGHT (54"+/- AFF)
P1	DOMESTIC HOT WATER (DHW) CIRCULATING PUMP EQUIVALENT TO B&G MODEL NRF-25 3/4" FLANGED INLINE CENTRIFUGAL CLOSE COUPLED BRONZE WET ROTOR 2.00 USGPM @ 14.5 FT HEAD 3300 RPM 1.20 FLA LEAD-FREE RATED WETTED PARTS
HWT	DOMESTIC HOT WATER (DHW) TANK (ELECTRIC) EQUIVALENT TO A.O.SMITH MODEL ENT55 PROLINE 24" @ x 56 1/2" H 55 USGAL (208 L) STORAGE 72 GALLONS 1 HR RATING. THERMOSTATIC CONTROLLED 4500 WATTS, 240/1/60 c/w GLASS LINKED TANK, ANODE ROD, 2" FOAM INSULATION WITH STEEL BAKED ENAMELED JACKET, AND T&P RELIEF VALVE. TANK RATED FOR 150 PSI WORKING PRESSURE.
PT.1 PT.2	PRESSURE TANKS (2 TANKS) LOCATION: MAINTENANCE SHED (SEE CIVIL PLANS FOR LOCATION) EQUIVALENT TO AMTROL WELL-X-TROL MODEL WXT-302 MAX WORKING PRESSURE 150 psig. FACTORY PRECHARGE 38 psig. 86 USGALS, 47H x 26" 1 1/2" NPTF STAINLESS STEEL SYSTEM CONNECTION 20.3 USGALS DRAW DOWN @ 50/70 psig
PS	PRESSURE TANK PRESSURE SWITCH (1 PER TANK) LOCATION: MAINTENANCE SHED (SEE CIVIL PLANS FOR LOCATION) TANK SHALL BE c/w GUARDIAN CP DIGITAL CONTROL MODEL DC2 PRESSURE SWITCH INSTALL BETWEEN PRESSURE TANK AND WELL PUMP. 50 psig CUT-IN PRESSURE 70 psig CUT-OUT PRESSURE ; 120/1/60



**A3** TYP. MOP SINK  
M501 N.T.S.



**B3** WATER HAMMER ARRESTER (WHA)  
M501 N.T.S.

PLUMBING FIXTURE SCHEDULE												
TAG	DESCRIP.	MFR./MODEL	TRIM	WASTE	TRAP	STOPS/SUPPLIES	HANGER	PIPE SIZES in INCHES		NOTES:		
								DCW	DHW	SAN	VENT	
WC1	WATER CLOSET FLOOR MOUNTED TANK STYLE ADA COMPLIANT	AMERICAN STANDARD CADET 3 No. 2386.012 (1.66/6.0L FLUSH)	--	--	--	DELTA/TECK 47T1316SD	--	1/2"	--	3"	1.1/2"	ALL FIXTURES TO BE WATERSENSE CERTIFIED - ELONGATED BOWL (VITREOUS CHINA) - SIPHON JET FLUSH ACTION, 2" TRAPWAY - 12" ROUGH-IN - SEAT BEAMS 1955CT SS HINGE POSTS - c/w WANDAL RESISTANT TANK COVER
LV	LAVATORY COUNTER MOUNT	AMERICAN STANDARD MEZZO SEMI-COUNTERTOP SINK No. 9960.403	DELTA/TECK No. 591T0258 (0.5 usgpm) HARD WIRE	DELTA/TECK No. 33T290 OFFSET (OPEN GRID STRAINER)	DELTA/TECK No. 33T311 (w/CO PLUG)	DELTA/TECK 47T1312SD	--	1/2"	1/2"	1.1/2"	1.1/2"	- VITREOUS CHINA COUNTER MOUNT, SELF RIMING, 1-HOLE, REAR OVERFLOW - CP, WANDAL RESISTANT LOW FLOW AERATOR - c/w THERMOSTATIC MIXING VALVE w/INTEGRAL CHECKS - c/w SENSOR AND 24" SENSOR CABLE WITH WATERTIGHT CONNECTION, HARD WIRED 24V, 120/24V TRANSFORMER, SOLENOID VALVE
MS	MOP SINK 24x24 FLOOR	ZURN SERVICE SINK No. Z1996-24 24"x24"x10"	DELTA/TECK No. 28C2384	INCLUDED w/MOP SINK	PIPE MATERIAL	COPPER w/BV's	--	3/4"	3/4"	3"	1.1/2"	- MOLDED HIGH DENSITY COMPOSITE BASIN, S.S. DOME STRAINER & LINT BASKET, SS BUMPER GUARD, HOSE HOOK, MOP HANGER, 36H TYPE 304SS SIDE PANELS - CP 8" CENTRE SET, WALL MOUNT, V.B. c/w INTEGRAL CHECKS, & PAIL HOOK, ADJUSTABLE SUPPORT BRACE, HOSE END.
SH1	SHOWER	ACORN SHOWER-WARE 500 ZENITH SERIES	ACORN M356-E511 w/ UPPER -SSV AND LOWER -CSH (1.5 usgpm)	--	--	--	--	1/2"	1/2"	BY OTHERS	--	- VANDAL RESISTANT, ANTI-LIGATURE 1.5 GPM SHOWER HEAD c/w ADA COMPLIANT PUSH BUTTON CONTROL (30 SECOND FLOW) 24V - c/w THERMOSTATIC MIXING VALVE w/INTEGRAL CHECKS (IN MECH RM) - CONFIRM MOUNTING HEIGHT OF HEADS AND PUSH BUTTON ON SITE
NFWH	NON-FREEZE EXTERIOR WALL HYDRANT	ZURN No. Z1320-EZ (RECTANGULAR FACE)	--	--	--	--	--	3/4"	--	--	--	- c/w INTEGRAL VACUUM BREAKER - HAND OPERATING KEY OVER TO OWNER AT PROJECT COMPLETION
HB	INTERIOR HOSE BIB	WATTS LSFC	--	--	--	--	--	3/4"	--	--	--	- c/w INTEGRAL VACUUM BREAKER - RATED LEAD FREE

ABBREVIATIONS :  
 DCW : DOMESTIC COLD WATER CW : COLD WATER G/M : GALLON/MINUTE HB : HOSE BIB SAN : SANITARY WASTE S.S. : STAINLESS STEEL CP : CHROME PLATED ADA : AMERICAN DISABILITIES ASSOCIATION  
 DHW : DOMESTIC HOT WATER HW : HOT WATER L/M : LITRE/MINUTE WC : WATER CLOSET WC : WATER CLOSET SD : SCREW DRIVER BV : BALL VALVE

CLIENT

MUNICIPALITY OF THE COUNTY OF KINGS

PROJECT DESCRIPTION

AYLESFORD BEACH WASHROOMS

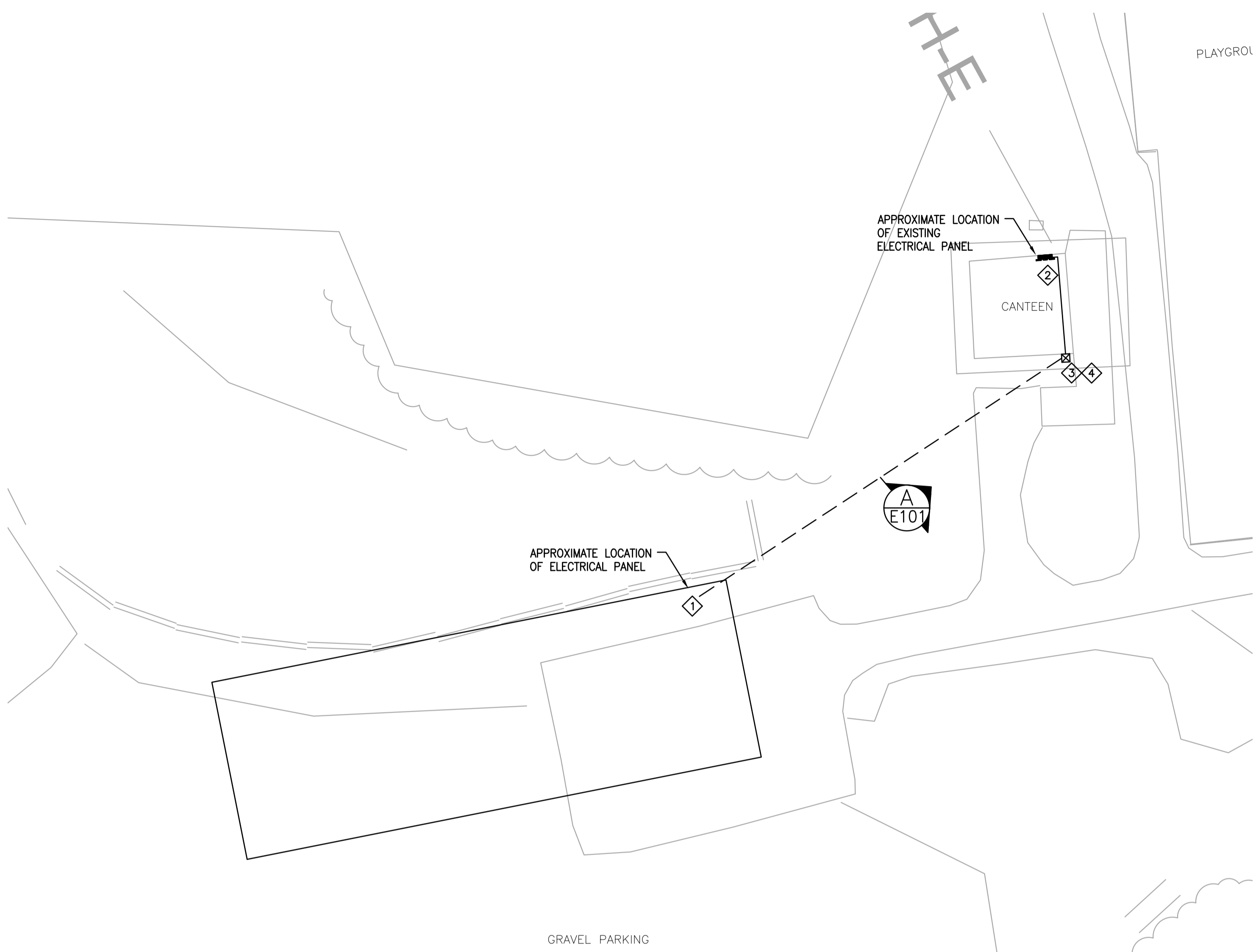
580 N RIVER ROAD, AYLESFORD NS B0P 1C0

SHEET DESCRIPTION

PLUMBING DETAILS AND SCHEDULES

Drawn GH	Engineer JPS	Project No. 212330	Drawing No. M-501
Scale AS NOTED	Filename		





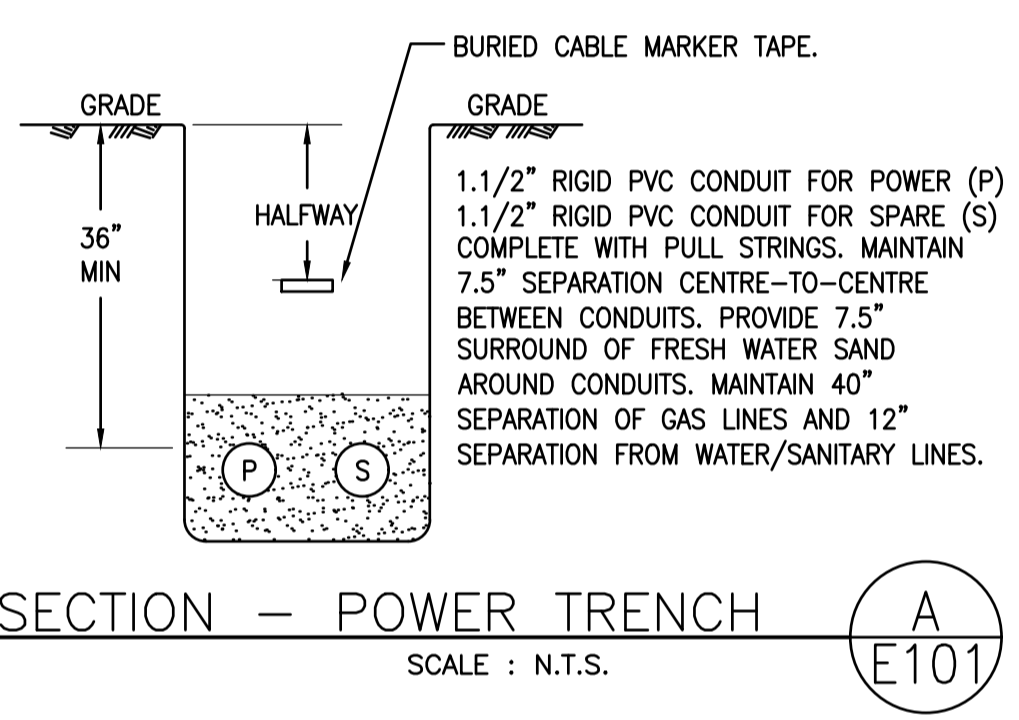
SITE PLAN  
SCALE: 1"=10'-0"

LUMINAIRE SCHEDULE							
SYMBOL	DESCRIPTION	LAMP	SYSTEM LUMENS	INPUT WATTS	VOLTS	MOUNTING	SPECIFIED UNIT
1	2' SQUARE LINEAR VANITY LIGHT, TAMPERPROOF	3500K LED	2000	27	120V	WALL MOUNTED ABOVE MIRROR, COORDINATE EXACT HEIGHT WITH ARCHITECT.	PACO CAT. NO. P760-48-L-20-35-MV OR EQUIVALENT.
2	1'x4' LINEAR VAPOR TIGHT COMPLETE WITH OCCUPANCY SENSOR AND WET LOCATION LISTED	3500K LED	2000	55	120V	SURFACE CEILING MOUNTED TO MATCH CEILING SLOPE.	PACO CAT. NO. LGL-4F-S-2-35-M1-MV OR EQUIVALENT.
3	SQUARE WALL PACK COMPLETE WITH B1-U0-G0 RATING	3000K LED	1200	12	120V	WALL MOUNTED 7'-6" A.F.F.	COOPER LIGHTING CAT. NO. XTOR1B-Y OR EQUIVALENT.
4	SQUARE WALL PACK	3000K LED	1200	12	120V	WALL MOUNTED 7'-6" A.F.F.	COOPER LIGHTING CAT. NO. XTOR1B-Y OR EQUIVALENT.

**GENERAL NOTES:**

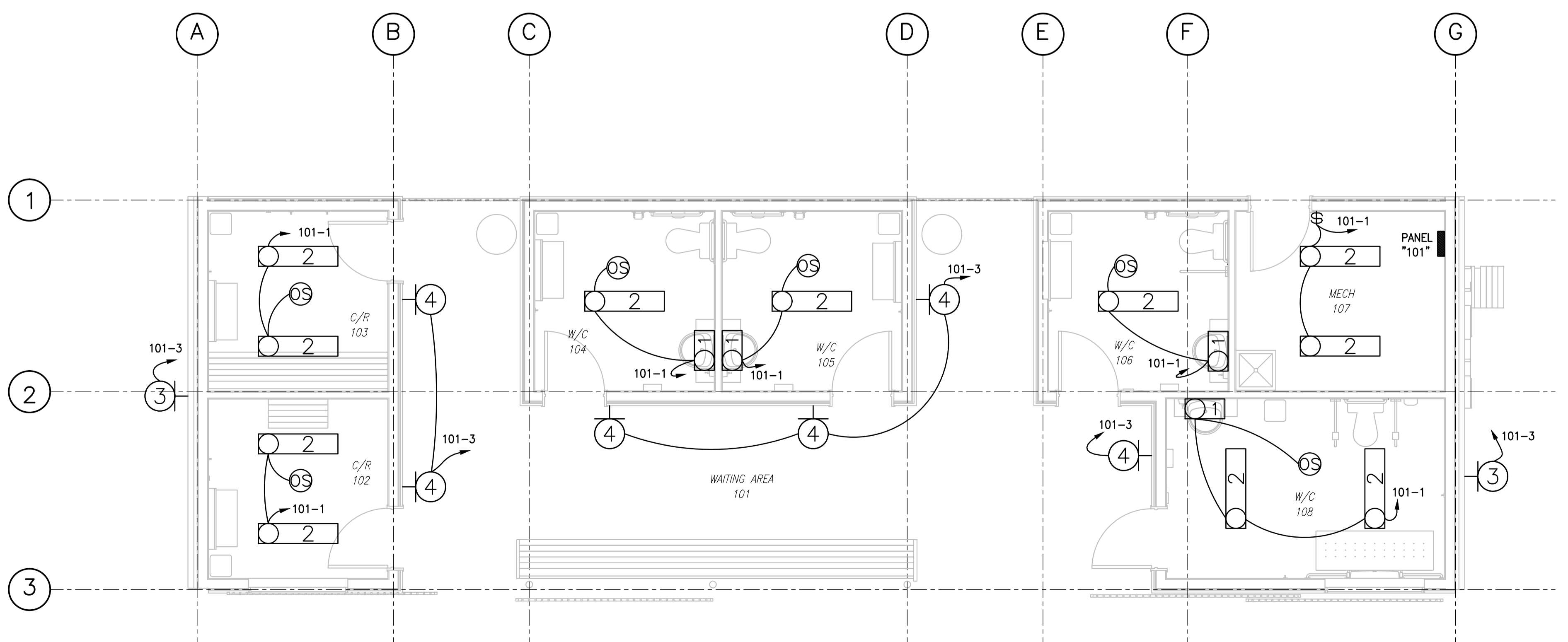
NOTE 1: THE CONTRACTOR SHALL HAVE A SITE SERVICES LOCATION PLAN COMPLETED TO IDENTIFY EXISTING UNDERGROUND SERVICES. ANY EXISTING SERVICES SHOWN ARE FOR REFERENCE ONLY.

NOTE 2: THE CONTRACTOR SHALL COORDINATE EXACT ROUTING ON SITE. CONDUIT TO BE ROUTED PARALLEL AND PERPENDICULAR TO THE BUILDING WERE VISIBLE.



SECTION - POWER TRENCH  
SCALE: N.T.S.

- ELECTRICAL LEGEND**
- 111-3  
2
  - ♀ WALL MOUNTED LIGHT
  - \$ LINE VOLTAGE LIGHTING CONTROL ON/OFF, SWITCH, UNLESS INDICATED OTHERWISE. VOLTAGE RATING INDICATED BY THE CIRCUIT DESCRIPTION.
  - OS OCCUPANCY SENSOR
  - EMERGENCY LIGHTING C/W DOUBLE HEAD WITH BATTERY PACK UNIT, WALL MOUNTED 7'-6" A.F.F. UNLESS INDICATED OTHERWISE.
  - EMERGENCY LIGHTING REMOTE DOUBLE HEAD, WALL MOUNTED 7'-6" A.F.F. UNLESS INDICATED OTHERWISE.
  - ☒ PULL BOX, JUNCTION BOX, DIRECT CONNECTION, OR EQUIPMENT AS INDICATED ON THE DRAWINGS.
  - 120/240V PANEL SURFACE MOUNTED.
  - ⚡ DUPLEX U-GROUND GFCI RECEPTACLE, CSA5-20R CONFIGURATION, FLUSH WALL MOUNTED 18" A.F.F., UNLESS INDICATED OTHERWISE. RECEPTACLE SHALL ACCEPT 15A AND 20 A PLUGS.
  - 120V OR 208V, SINGLE (1) PHASE, 1/4 HP MOTOR, WIRING BY ELECTRICAL CONTRACTOR, AS INDICATED ON THE DRAWINGS.
  - ⊕ ACCESS CONTROL DOOR CONTACT PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. EQUIVALENT TO CAMDEN CAT NO. CX-MDH.
  - ⊕ UNIVERSAL ACCESS DOOR PUSH BUTTON SUPPLIED BY HARDWARE DIVISION, ELECTRICAL CONTRACTOR TO INSTALL AND WIRE FROM POWER ASSIST DOOR CONTROLLER AT TOP OF DOOR JAM TO PUSH BUTTON. ELECTRICAL CONTRACTOR SHALL TERMINATE ALL ELECTRICAL SERVICES.
  - ⊕ ACCESS DOOR PUSH TO LOCK BUTTON SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. INSTALL AND WIRE FROM POWER ASSIST DOOR CONTROLLER AT TOP OF DOOR JAM TO PUSH BUTTON. EQUIVALENT TO CAMDEN CAT NO. CM-7536/8B
  - ⊕ ELECTRIC DOOR STRIKE MOUNTED IN DOOR HARDWARE. DEVICES PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR, POWER AND WIRING BY ELECTRICAL CONTRACTOR. EQUIVALENT TO CAMDEN CAT. NO. CX-ED2079
  - ⊕ ASSISTANCE CALL DOME LIGHT AND ADJUSTABLE SOUNDER. PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO ROUGH IN. EQUIVALENT TO CAMDEN CAT NO. CM-AF14150.
  - ⊕ ASSISTANCE CALL PUSH/PULL BUTTON FLUSH WALL MOUNTED 18" A.F.F. COMPLETE WITH STAINLESS STEEL PULL STRING. PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR, COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. EQUIVALENT TO CAMDEN CAT NO. CM-450R/12.
- DEFINITIONS:**
- G.F.C.I. - INDICATES GROUND FAULT CIRCUIT INTERRUPTER.
  - A.F.F. - INDICATES ABOVE THE FINISHED FLOOR.
  - WP - WEATHERPROOF DEVICE



LIGHTING PLAN  
SCALE: 1/4"=1'-0"

**ELECTRICAL NOTES:**

INDICATED BY THE ◊ SYMBOL ON THE DRAWINGS. (I.E. ◊ INDICATES NOTE 1)

NOTE 1: THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF CONDUIT STUB UP WITHIN THE CONCRETE SLAB ON SITE WITH ALL TRADES.

NOTE 2: THE ELECTRICAL CONTRACTOR SHALL REMOVE EXISTING WALL FINISHES AND CEILING GYPSUMBOARD FOR NEW CONDUIT ROUTING AND REINSTATE WALL AND CEILING FINISHES TO MATCH EXISTING.

NOTE 3: THE ELECTRICAL CONTRACTOR SHALL TRANSITION FROM THE INTERIOR OF THE BUILDING EMT TO EXTERIOR PVC CONDUIT AND RUN DOWN THE EXTERIOR OF THE BUILDING WALL INTO THE TRENCH. THE EXPOSED CONDUIT SHALL BE COMPLETE WITH AN EXPANSION JOINT.

NOTE 4: THE ELECTRICAL CONTRACTOR SHALL CAP SPARE CONDUIT APPROXIMATELY 36" FROM THE CANTEN BUILDING. INSTALL A 24" LENGTH OF REBAR AT END FOR FUTURE DETECTION.

ISSUE	DATE	DESCRIPTION
1	2022-02-18	ISSUED FOR TENDER

DESIGN POINT  
ENGINEERING & SURVEYING

DILLON CONSULTING

CLIENT

MUNICIPALITY OF THE COUNTY OF KINGS

PROJECT DESCRIPTION

AYLESFORD BEACH WASHROOMS

580 N RIVER ROAD, AYLESFORD NS B0P 1C0

SHEET DESCRIPTION

ELECTRICAL SITE PLAN, LEGEND, LUMINAIRE SCHEDULE, AND LIGHTING PLAN

Drawn P.N.M.	Engineer A.A.M.	Project No. 212330	Drawing No. <b>E101</b>
Scale AS NOTED	Filename		







Panel: "Canteen"		Mounting: Flush						
Location: Canteen Building		Feeder: Existing						
Type: Siemens EQ Loadcentre		Frame: Existing						
Rating: 200A 120/240V 1Ph, 3W								
No.	Brk.	Description	Load	Phase	Load	Description	Brk.	No.
1	15/2Pe	Existing		A		Existing	15/2Pe	2
3	***	***		B		***	***	4
5	15/2Pe	Existing		A		Existing	15/1Pe	6
7	***	***		B		Existing	15/1Pe	8
9	15/2Pe	Existing		A		Existing	15/1Pe	10
11	***	***		B		Existing	15/1Pe	12
13	15/1Pe	Existing		A		Existing	15/1Pe	14
15	15/1Pe	Existing		B		Existing	15/1Pe	16
17	15/1Pe	Existing		A		Existing	15/1Pe	18
19	60/2P	Panel 101 - Washroom Building		B		Equip - Hot Water Heater	20/2Pe	20
21	***	***		A		***	***	22
23	Space	Space		B		Space		24
25	Space	Space		A		Space		26
27	Space	Space		B		Space		28
29	Space	Space		A		Space		30
31	Space	Space		B		Space		32
33	Space	Space		A		Space		34
35	Space	Space		B		Space		36
37	Space	Space		A		Space		38
Phase "A" Total kVA			0.00		0.00	Phase "B" Total kVA		

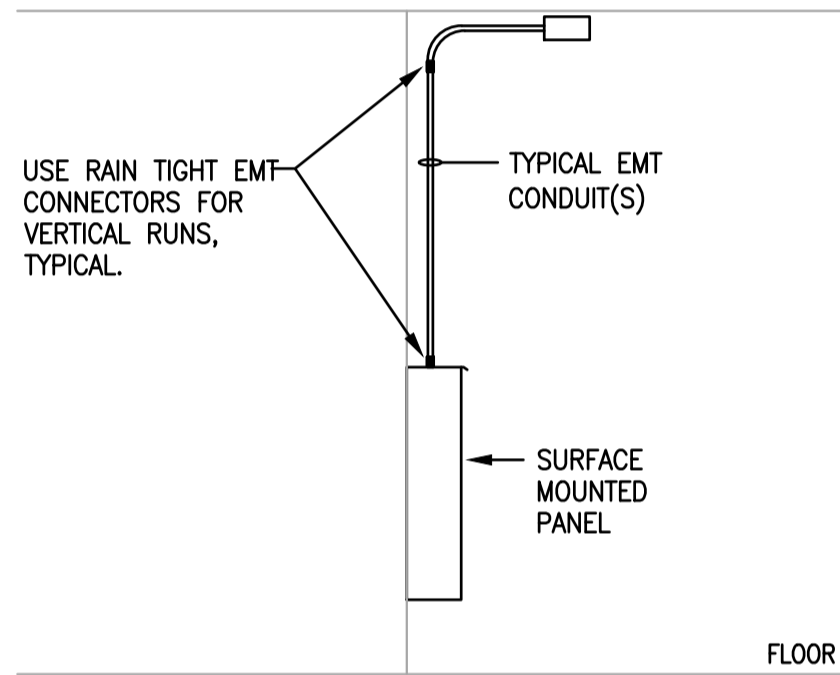
Notes:  
 \* - Indicates Breaker To Be Complete With Handle Locking Device.  
 Pe - Indicates Existing Breakers  
**BOLD** - Indicates New breaker and/or Load

Panel: "101"		Mounting: Surface						
Location: Mechanical Room 107		Feeder: See Single Line Diagram						
Type: Cutler Hammer load centre cat. No. CBRPL130		Frame: BR						
Rating: 100A 120/240V 1Ph, 3W								
No.	Brk.	Description	Load	Phase	Load	Description	Brk.	No.
1	20/1P	Lighting - WR	636	A	400	Recept - Exterior	20/1P	2
3	20/1P	Lighting - Exterior	96	B	400	Recept - Mech Room	20/1P	4
5	30/2P	Equip - Hot Water Tank	2,225	A	24	Equip - Trap Primer	15/1P	6
7	***	***	2,225	B	270	Equip - Circular Pump	15/1P	8
9	15/1P	Equip - Door Operator	100	A	200	Recept - WR 108	20/1P	10
11	15/1P	Equip - Changing Table		B	200	Recept - WR 106	20/1P	12
13	15/1P	Equip - Bathroom Fixtures		A	300	Recept - C/R 102	20/1P	14
15	15/1P	Spare		B		Spare	20/1P	16
17	15/1P	Spare		A		Spare	20/1P	18
19	15/1P	Spare		B		Spare	15/1P	20
21	Space	Space		A		Space		22
23	Space	Space		B		Space		24
25	Space	Space		A		Space		26
27	Space	Space		B		Space		28
29	Space	Space		A		Space		30
Phase "A" Total kVA			3.89		3.19	Phase "B" Total kVA		

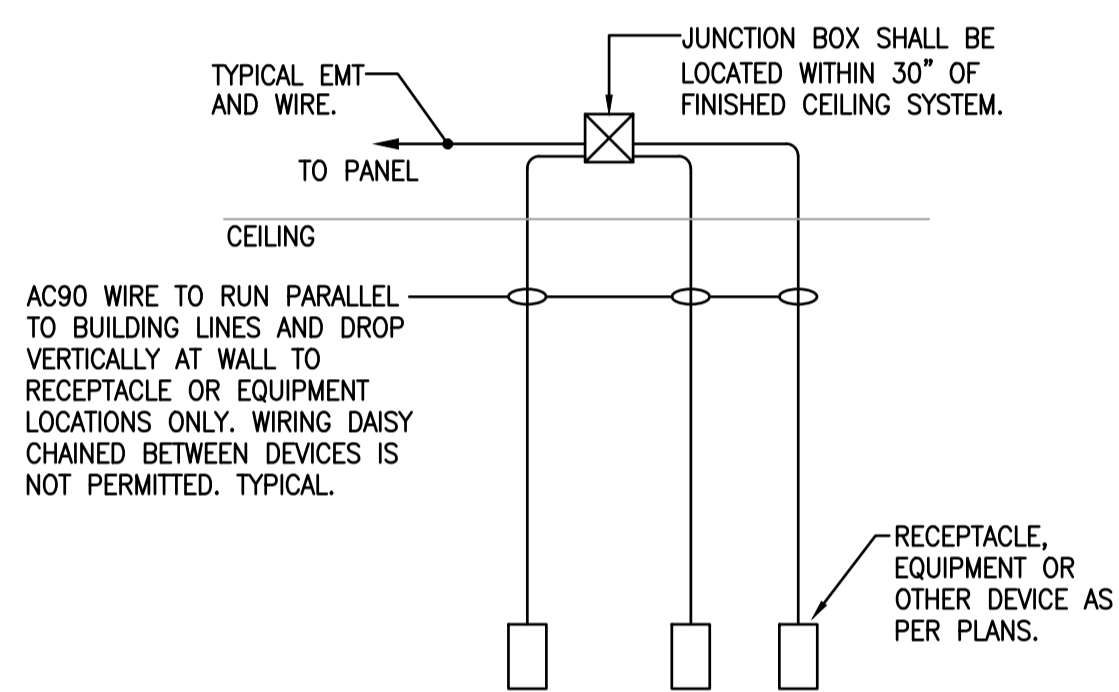
Notes:  
 \* - Indicates Breaker To Be Complete With Handle Locking Device.

**ELECTRICAL NOTES:**

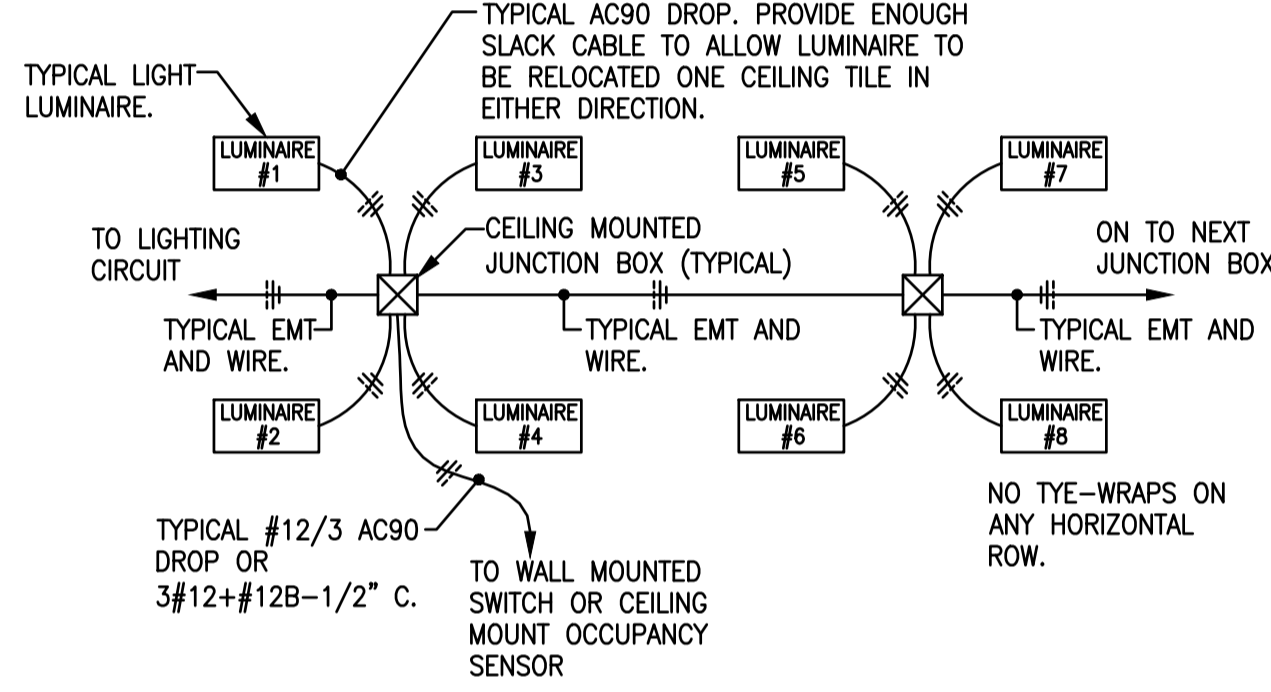
INDICATED BY THE  $\diamond$  SYMBOL ON THE DRAWINGS. (I.E.  $\diamond$  INDICATES NOTE 1)  
 NOTE 1: THE CONTRACTOR SHALL PROVIDE BREAKER EQUIVALENT TO EXISTING BREAKER INTERRUPTION RATING.



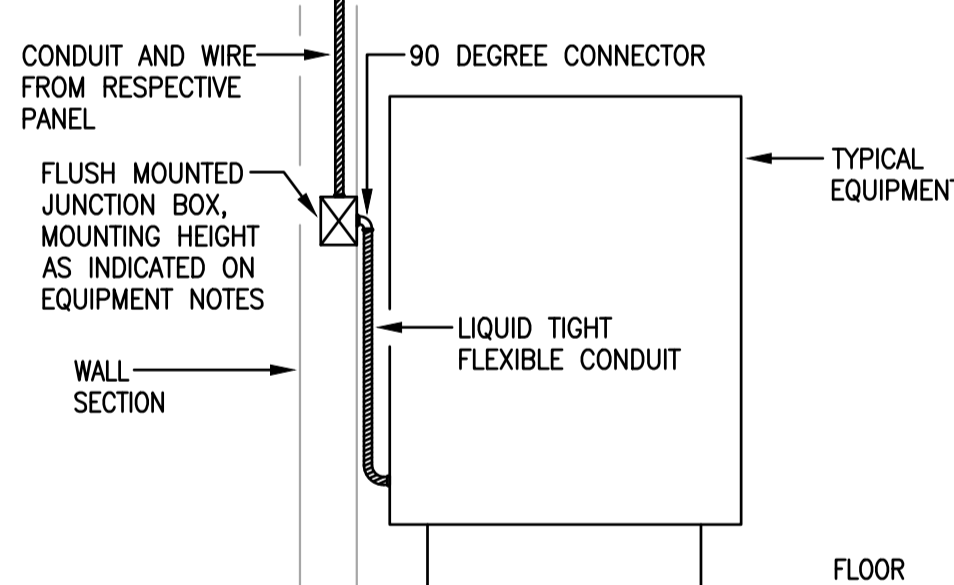
DETAIL - SURFACE MOUNTED PANEL  
 SCALE : N.T.S. 1 E103



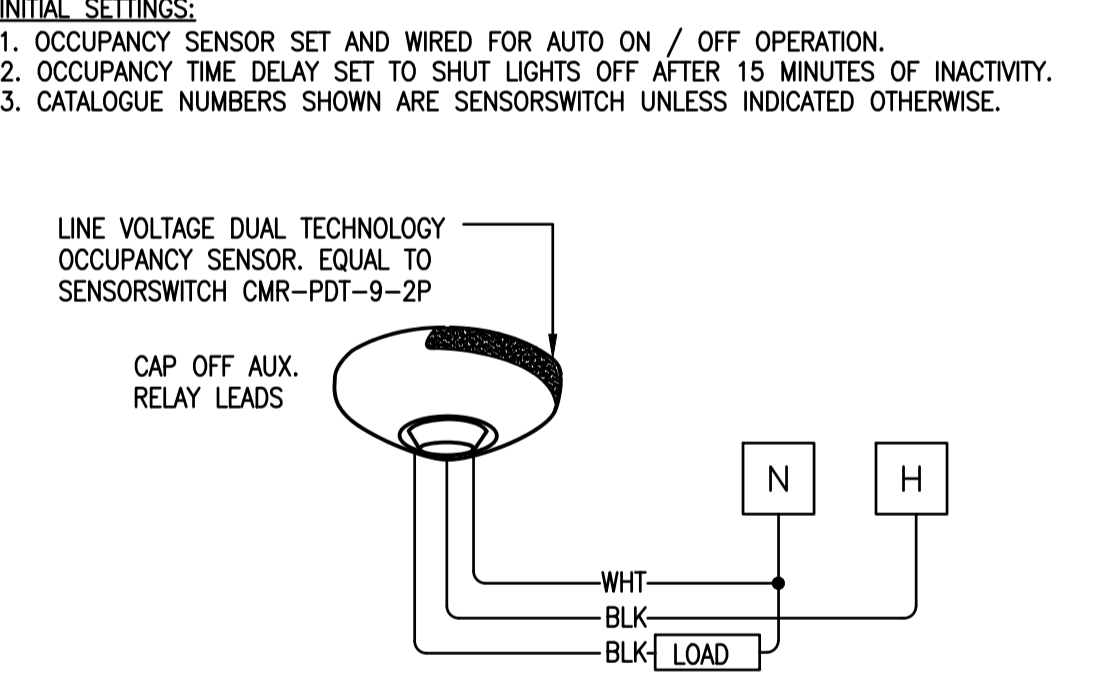
DETAIL - GENERIC RECEPTACLE DROP  
 SCALE : N.T.S. 4 E103



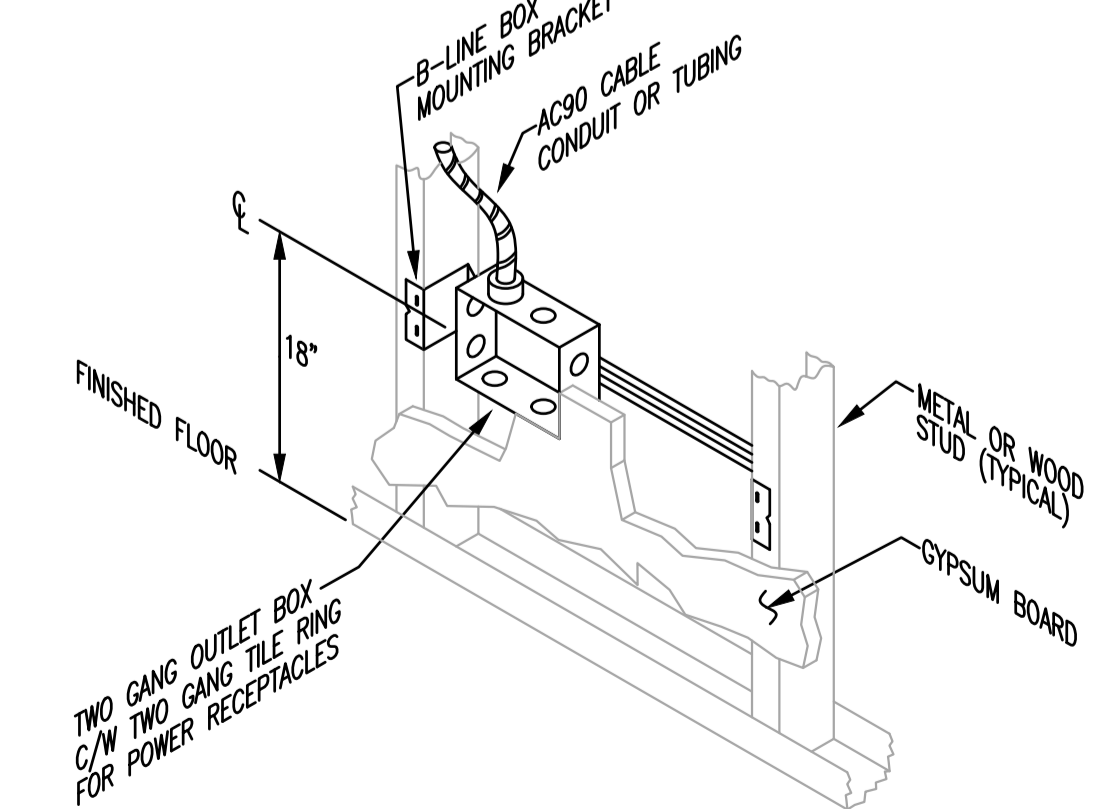
DETAIL - GENERIC LUMINAIRE DROP  
 SCALE : N.T.S. 7 E103



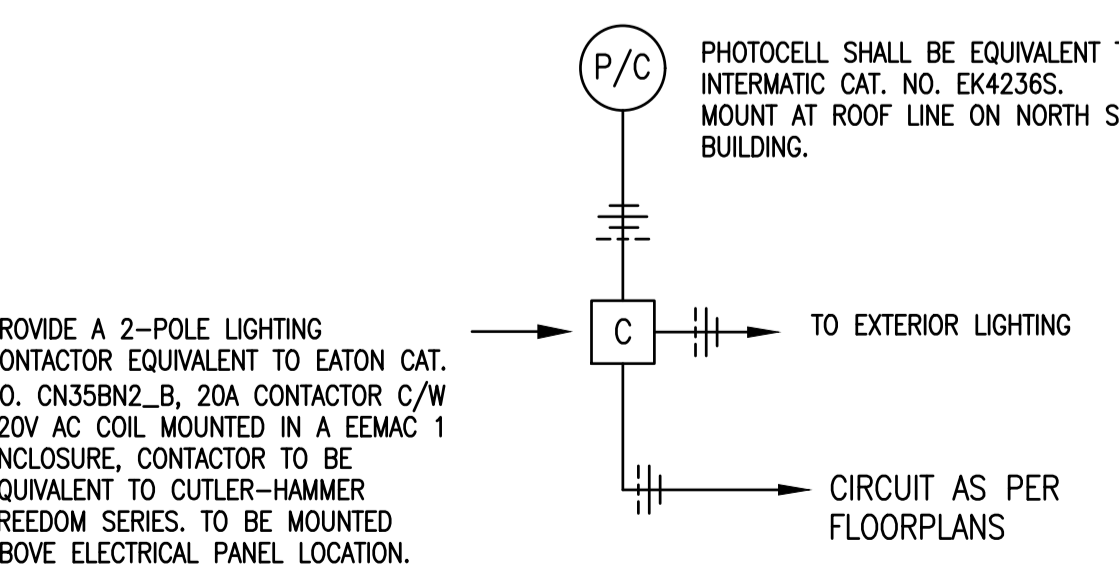
DETAIL - TYPICAL DIRECT CONNECTION  
 SCALE : N.T.S. 2 E103



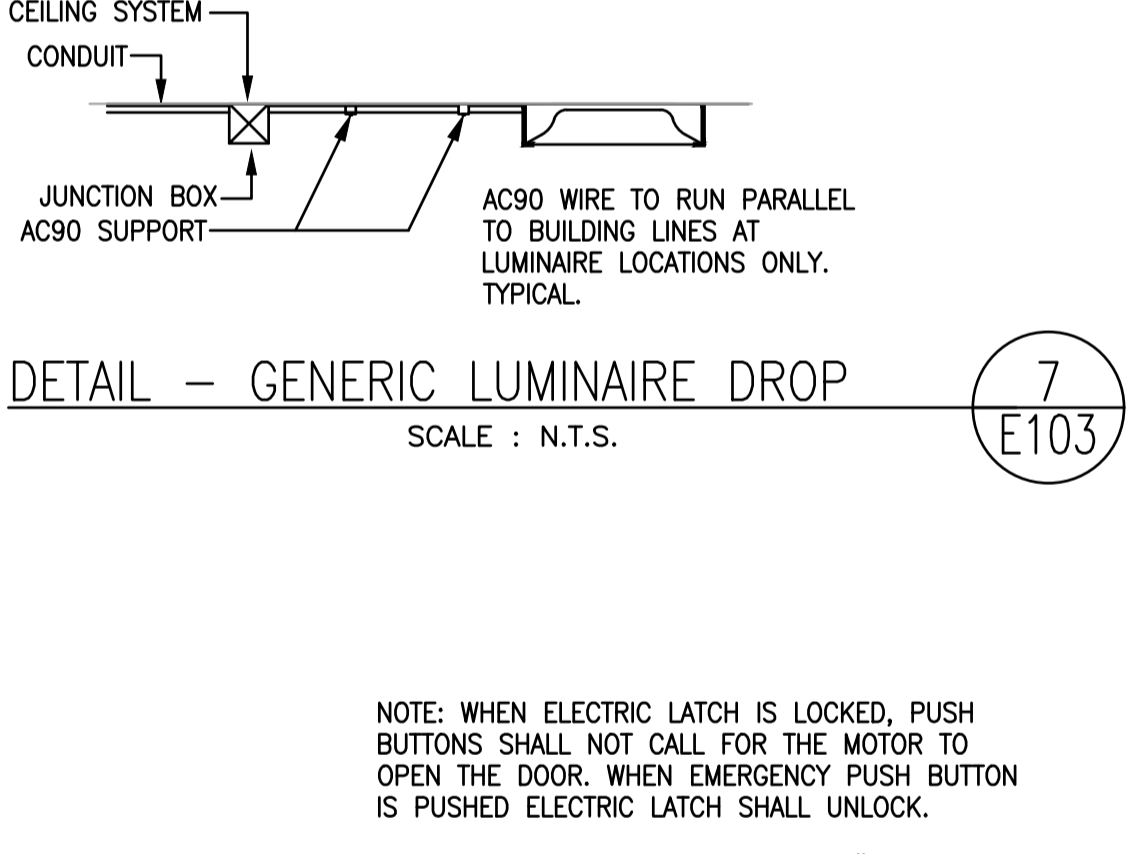
DETAIL - LINE VOLTAGE OCCUPANCY  
 SCALE : N.T.S. 5 E103



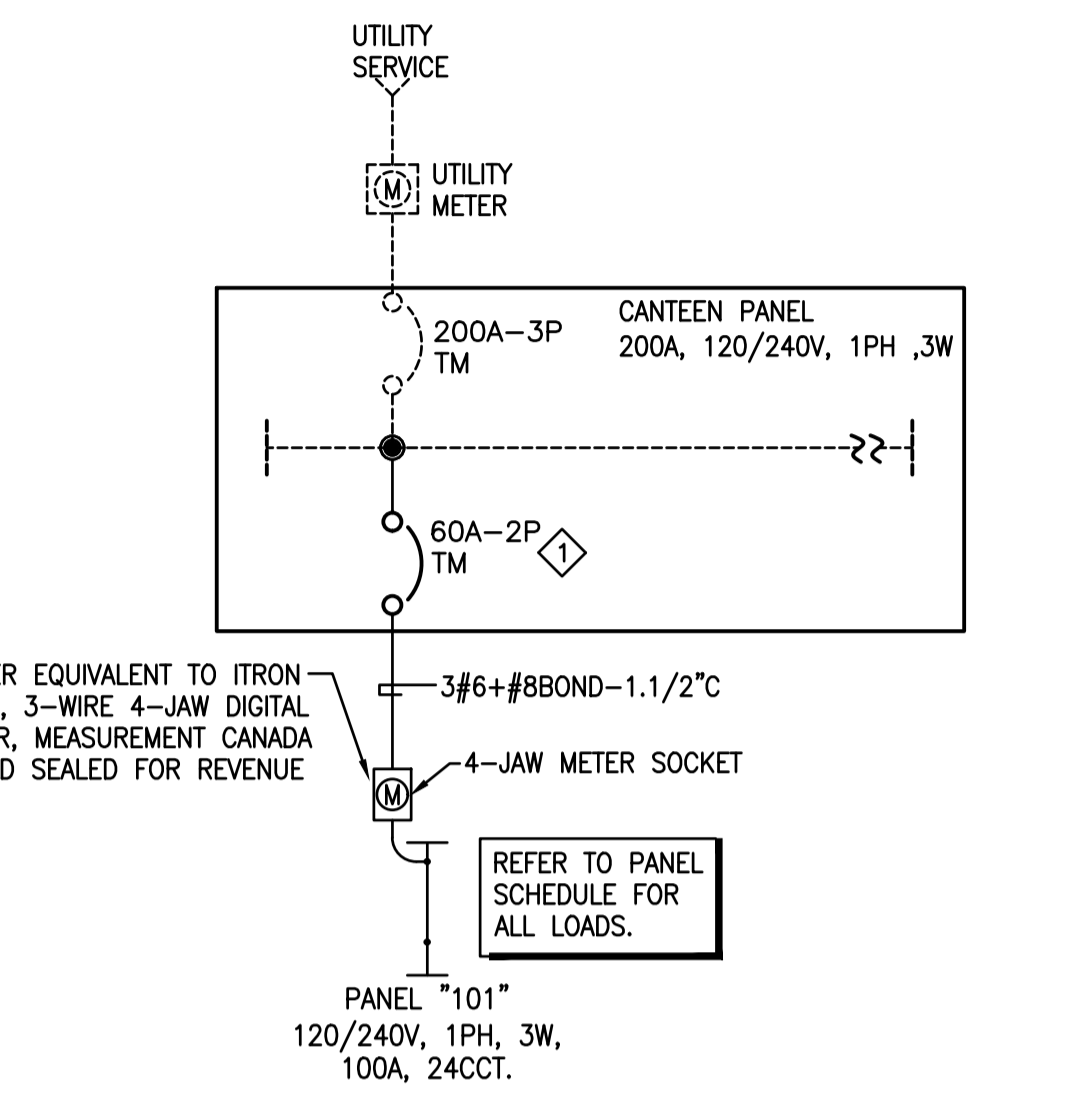
POWER & COMMUNICATIONS BOX SUPPORT  
 SCALE : N.T.S. 3 E103



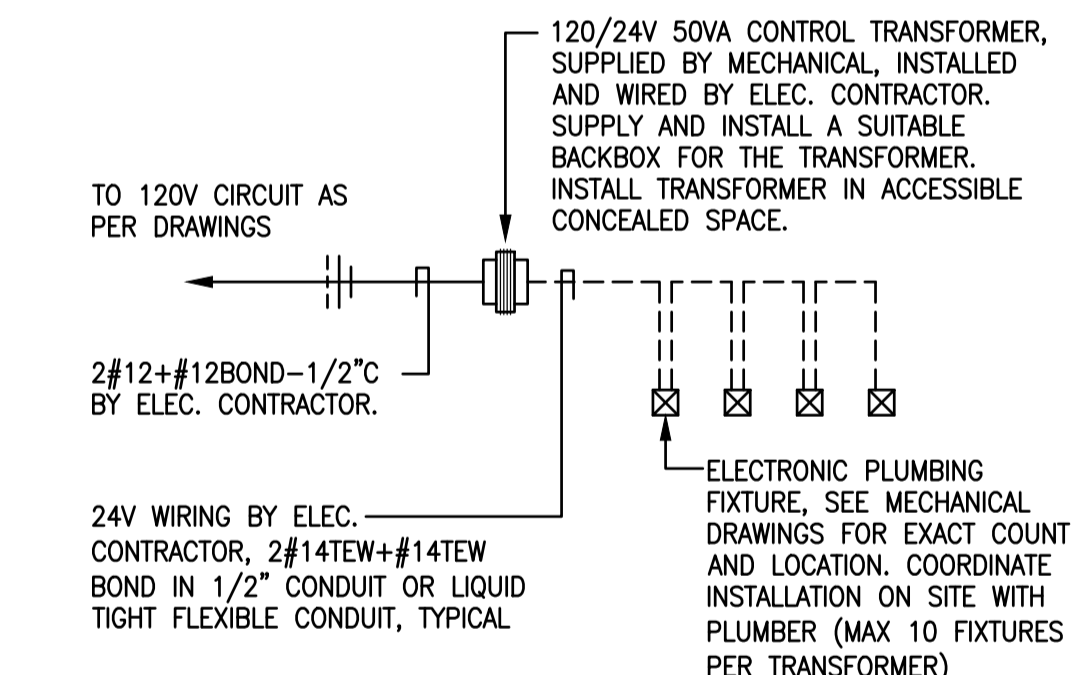
DETAIL - LINE VOLTAGE OCCUPANCY  
 SCALE : N.T.S. 6 E103



DETAIL - BF WR ACCESS DOOR  
 SCALE : N.T.S. 8 E103



PROPOSED SINGLE LINE DIAGRAM 120/240V  
 SCALE : N.T.S.



RISER - PLUMBING FIXTURES  
 SCALE : N.T.S. 9 E103

1	2022-02-18	ISSUED FOR TENDER
ISSUE	DATE	DESCRIPTION

**DESIGN POINT**  
 ENGINEERING & SURVEYING

**DILLON CONSULTING**

CLIENT

MUNICIPALITY OF  
 THE COUNTY OF KINGS

PROJECT DESCRIPTION

AYLESFORD BEACH  
 WASHROOMS

580 N RIVER ROAD, AYLESFORD NS B0P 1C0

SHEET DESCRIPTION

Drawn P.N.M.	Engineer A.A.M.	Project No. 212330	Drawing No. <b>E103</b>
Scale AS NOTED	Filename		