



THE CITY OF WINNIPEG

APPENDIX B

**Drawings of Existing Public Washroom Building
(For Information Only)**

TENDER NO. 930-2023

MAIN AND HENRY COMMUNITY CORNER PLAZA – 715 MAIN STREET

715 MAIN STREET PUBLIC TOILET

715 Main Street, Winnipeg, MB

ABBREVIATIONS

A/VB	Air/Vapour Barrier (Fully Adhered)	RS	Reverse Swing
ACT	Acoustic Ceiling Tile	RSF	Resilient Sheet Flooring
ADB	Auto Door Bottom	RB	Rubber Wall Base
AFF	Above Finished Floor	RWL	Rain Water Leader
B/O	Bottom Of	SBM	Supplied by Manufacturer
B/U	Built-Up	SBO	Supplied by Owner
BTW	Between	SC	Self Cove Base
CB	Catch Basin	SIM	Similar
CGSB	Canada Government Standards Board	SS	Stainless Steel
CIP	Cast In Plan	ST	Stain
CL	Door Closer	STL	Steel
CLR	Clear	STRUCT	Structural
CLNG	Ceiling	STG	Stain Grade
CMU	Concrete Masonry Unit	SVC	Sheet Vinyl Cove
CONC	Concrete	SVF	Sheet Vinyl Floor
CONST	Construction	SWD	Solid Wood Door
CONT	Continuous	TH	Threshold
CPT	Carpet Tile	T/O	Top Of
CT	Ceramic Tile	TYP	Typical
C/W	Complete With	U/S	Underside
DIA	Diameter	VB	Vapor Retarder/Barrier
DB	Dead Bolt	VCT	Vinyl Composite Tile
DO	Door Opener	VERT	Vertical
DP	Door Pull	VSG	Vinyl Sheet Good
DS	Door Sweep	W/	With
EQ	Equal	W/C	Washroom
ELEC	Electrical	WD	Wood
EXIST	Existing	WG	Wired Glass
FB	Flush Bolt	WMFE	Wall Mounted Fire Extinguisher
FE	Fire Extinguisher	WS	Wall Stop
FEC	Fire Extinguisher Cabinet	WSP	Weather Stripping
FL	Fusible Link		
FLH	Fixed Lever Handle		
F.R.R.	Fire Rated		
FS	Floor Stop		
G1S	Good One Side		
G1	Grade One		
G2	Grade Two		
GA	Gauge		
GALV	Galvanized		
GFR	Glass Fibre-Reinforced		
GL	Glazing		
GWB	Gypsum Wall Board		
HM	Hollow Metal		
HORIZ	Horizontal		
INS	Insulated		
KMM	Key to Master		
KP	Kick Plate		
LH	Lever Handle		
LAM	Laminate		
MAR	Marmoleum		
MAX	Maximum		
MECH	Mechanical		
MIN	Minimum		
MTL	Metal		
MR	Moisture Resistant		
N/A	Not Applicable		
NIC	Not In Contract		
OSB	Oriented Strand Board		
PC	Precast		
PH	Panic Hardware		
PLAM	Plastic Laminate		
PLWD	Plywood		
PLSH	Polished		
PP	Push Plate		
PREFIN	Pre-finished		
PS	Privacy Set		
PSF	Pressed Steel Frame		
PT	Pressure Treated		
PTD	Painted		
PTG	Pressure Treated Green		

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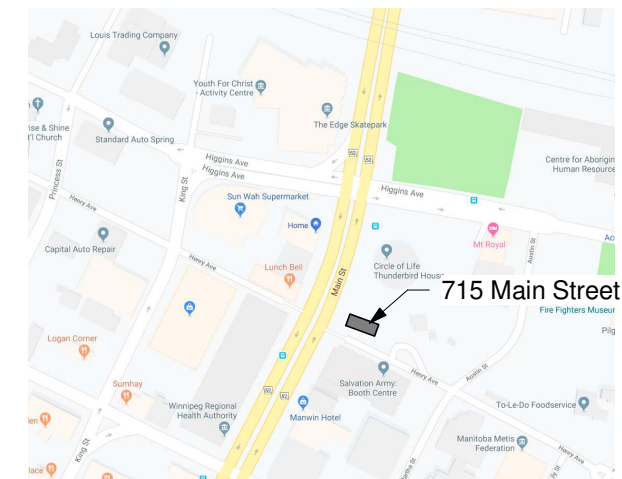
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GENERAL NOTES

- THESE DRAWINGS SHALL NOT BE SCALED
- THE CONTRACTOR IS RESPONSIBLE FOR THE VERIFICATION OF MEASUREMENTS AND QUANTITIES OF MATERIALS REQUIRED.
- DIMENSIONS ARE TO GRID LINES, FACE OF STUD, CONCRETE OR EXISTING WORK TO REMAIN UNLESS NOTED OTHERWISE.
- PERFORM WORK IN STRICT ACCORDANCE WITH THE 2012 MANITOBA BUILDING CODE AND ANY OTHER CODE OF PROVINCIAL APPLICATION. OBSERVE ALL LOCAL ORDINANCES AND REGULATIONS.
- CONTRACTOR TO REVIEW ALL ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ALL OPENINGS THROUGH FLOOR, WALLS, AND ROOF ASSEMBLIES. REFER TO STRUCTURAL DETAILS FOR FRAMING.
- CONTRACTOR TO VERIFY ALL EXISTING SITE CONDITIONS AND REPORT ALL DISCREPANCIES TO THE CONTRACT ADMINISTRATOR PRIOR TO CONSTRUCTION.
- ALL PLYWOOD AND/OR WOOD BLOCKING USED AT OR BELOW GRADE IS TO BE PRESSURE-TREATED.
- ALL PLYWOOD OR WOOD BLOCKING USED ABOVE PLANE OF ROOF DECK IS TO BE PRESSURE-TREATED.
- IN CASE OF DOUBT; CONFLICT OR DISCREPANCIES ON THE DRAWINGS AND/OR SPECIFICATIONS; OR QUESTIONS REGARDING MATERIALS OR SUITABLE METHOD OF CONSTRUCTION, CONSULT ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH WORK.
- CONTRACTOR TO SUBMIT APPLICATIONS FOR EQUAL IN WRITING. ALONG WITH SUPPORTING DATA, FOR APPROVAL PRIOR TO PROCEEDING.
- COMPENSATION WILL NOT BE MADE BECAUSE OF FAILURE TO MAKE PROPER SITE INVESTIGATIONS AND REPORT OF ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR PRIOR TO TENDER CLOSING OR BECAUSE OF FAILURE TO UNDERSTAND FULL NATURE OF WORK.
- GENERAL CONTRACTOR TO COORDINATE AND PROVIDE ALL SOLID BLOCKING WITHIN THE WALL AND CEILING AREAS TO SUPPORT SURFACE MOUNTED FIXTURES AND FITTINGS INCLUDING, BUT NOT LIMITED TO APPLIANCES, HANDRAILS, SIGNS AND ACCESSORIES - INCLUDING ITEMS NOTED AS N.I.C. IN COORDINATION WITH THE OWNER.



1 LOCATION MAP
NTS

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Project:
**715 MAIN STREET
PUBLIC TOILET**

715 Main Street, Winnipeg, MB

Project Number: 2022
Bid Opportunity Number: 54-2021



#	Issue/Revision	Date
1	ISSUED FOR CONSTRUCTION	MAR. 3, 2021

Drawing Title:
COVER SHEET

Sheet No:
A000

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ASSEMBLY LEGEND

WALL TYPES

EW1 METAL CLADDING ON WOOD STUD FRAMING - PLYWOOD INTERIOR

- 22mm PREFINISHED 22 GA. CORRUGATED METAL CLADDING
- SPUN POLYOLEFIN WATER RESISTIVE BARRIER MEMBRANE
- 16mm GLASS FIBRE REINFORCED EXTERIOR SHEATHING
- 184mm WOOD STUD FRAMING @ 203MM O.C. (REFER TO STRUCT)
- (FILL STUD CAVITY W/ 6" MIN. BATT INSULATION)
- 6 MIL POLYETHYLENE VAPOUR BARRIER MEMBRANE
- 13mm BALTIC BIRCH PLYWOOD - CLEAR SEALED (SEE GENERAL NOTE #6)

EW2 METAL CLADDING ON WOOD STUD FRAMING - GWB INTERIOR

- 22mm PREFINISHED 22 GA. CORRUGATED METAL CLADDING
- SPUN POLYOLEFIN WATER RESISTIVE BARRIER MEMBRANE
- 16mm GLASS FIBRE REINFORCED EXTERIOR SHEATHING
- 184mm WOOD STUD FRAMING @ 203MM O.C. (REFER TO STRUCT)
- (FILL STUD CAVITY W/ 6" MIN. BATT INSULATION)
- 6 MIL POLYETHYLENE VAPOUR BARRIER MEMBRANE
- 1/2" GYPSUM BOARD - PAINTED (ABOVE ELEVATION U/S CONTAINER 2)

EW3 METAL CLADDING ON WOOD STUD FRAMING - NO INSULATION

- 22mm PREFINISHED 22 GA. CORRUGATED METAL CLADDING
- SPUN POLYOLEFIN WATER RESISTIVE BARRIER MEMBRANE
- 16mm GLASS FIBRE REINFORCED EXTERIOR SHEATHING
- 92mm WOOD STUD FRAMING @ 203MM O.C. (REFER TO STRUCT)

IW1 CONCRETE BLOCK

- 92mm CONCRETE BLOCK - SEALED

NOTE: REFER TO FLOOR PLAN FOR AREAS OF 76mm MIN. SPRAYFOAM INSULATION BETWEEN SHIPPING CONTAINER AND CONC BLOCK

IW2 92mm STEEL STUD PARTITION

- 92mm STEEL STUDS @ MAX 406mm O.C.
- 16mm ABUSE-RESISTANT GYPSUM BOARD

IW3 92mm STEEL STUD PARTITION - SPRAYFOAM INSULATION

- 13mm CONSTRUCTION GRADE PLYWOOD
- 92mm STEEL STUDS @ MAX 406mm O.C.
- (FILL CAVITY SPACE BETWEEN STUDS & SHIPPING CONTAINER WALL WITH 76mm MIN. SPRAYFOAM)

IW3a 92mm STEEL STUD PARTITION - BATT INSULATION

- 13mm CONSTRUCTION GRADE PLYWOOD
- 92mm STEEL STUDS @ MAX 406mm O.C.
- (FILL STUD CAVITY SPACE WITH 89mm MINERAL WOOL BATT INSULATION)
- VAPOUR BARRIER, TAPPED ALL SIDES & CONTINUOUS WITH ADJACENT WALLS

NOTE: CONSTRUCT WALL TO BE REMOVABLE WHEN ACCESS IS REQUIRED THROUGH CONTAINER DOORS

ROOF TYPES

R1 SLOPED WOOD ROOF

- 2 PLY MOD. BIT. - HEAT WELDED CAP SHEET
- ICE & WATER SHIELD TO COVER ENTIRE ROOF
- 3mm PROTECTION COVER BOARD (BASIS OF DESIGN: IKO PROTECTOBOARD)
- FULLY ADHERED SBS MODIFIED BITUMEN AIR/VAPOUR BARRIER
- 16mm PLYWOOD SHEATHING
- P.T. WOOD BLOCKING AS REQUIRED FOR SLOPE (REFER TO STRUCTURAL)
- 89mm P.T. WOOD STUDS ON FLAT @ 406mm O.C. ACROSS TOP OF CONTAINERS

NOTE: SECURE ROOF TO CONTAINER TOP CHANNEL FRAMES ONLY (NO PENETRATIONS ALLOWED INTO CONTAINER CORRUGATED ROOF)

GENERAL NOTES:

1. SHIPPING CONTAINERS & SANDBLASTING OF CONTAINERS PROVIDED BY CLIENT
2. PROVIDE SEPARATE PRICE FOR 2 URINALS ON EAST ELEVATION
3. PROVIDE SEPARATE PRICE FOR 'LOO LOO' & 'WPG' 1220mm x 152mm LETTERING ON STANDOFFS (LOCATED ON WEST & NORTH ELEVATIONS)
4. ALL SHIPPING CONTAINER WALLS WHERE SPRAYFOAM INSULATION IS INDICATED ON DRAWINGS TO BE A MINIMUM THICKNESS OF 76mm (REFER TO PLANS AND SECTIONS FOR LOCATIONS)
5. ALL CAVITIES WHERE SPRAYFOAM IS INDICATED TO BE COMPLETELY FILLED WITH NO VOIDS ALLOWED. IF VOIDS ARE DISCOVERED, THE CONTRACT ADMINISTRATOR MAY REQUEST A FULL INSPECTION OF SPRAYFOAM APPLICATION AT THE GC'S EXPENSE
6. BALTIC BIRCH PLYWOOD INTERIOR FINISH TO BE FULL SIZE 1220x2434mm SHEETS OF PLYWOOD ALIGNED WITH ELEVATION U/S CONTAINER 2. CUT BALTIC BIRCH PLYWOOD, SIZE TO SUIT, BELOW FULL SHEET AS WALL BASE - CLEAR SEALED.
7. ALL GLAZING, UNLESS OTHERWISE NOTED, TO BE TEMPERED - TYPICAL
8. ALL EXPOSED STEEL FABRICATED EDGES TO BE GROUND SMOOTH
9. ALL EXPOSED WELDING TO BE CONTINUOUS AND GROUND SMOOTH
10. MAKE GOOD ANY DAMAGE DONE TO EXISTING CITY SIDEWALK
11. CONFIRM FINISHES OF ALL STEEL WORK WITH CONTRACT ADMINISTRATOR
12. WATERPROOF RUBBER MEMBRANE TO BE: Blue Seal Waterproofing Rubber Membrane Model # BE185169 Home Depot
13. ALL EXPOSED CONCRETE BLOCK TO BE SEALED WITH: Quikrete Acrylic Concrete Sealer 3.8L - Model 880003 SKU 1000 142722 Home Depot
14. ALL CONCRETE FLOORS AND TOPPING TO BE SEALED. CONCRETE SEALER TO BE AN EPOXY-BASED LIQUID COATING SYSTEM. INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS OVER ALL INTERIOR CONCRETE: PRODUCT TO BE (REFER TO SPEC):
 Manufacturer: Soprema
 System Name: Aslan Floor Quartz
 Colour: Grey OR White (to be confirmed)

FLOOR TYPES

F1 CONCRETE STRUCTURAL SLAB ON GRADE

- CONCRETE SLAB ON GRADE (REFER TO STRUCTURAL)
- 10mil POLYETHYLENE SHEET VAPOUR RETARDER
- 102mm EPS FOIL-FACE RIGID INSULATION
- 152mm VOID FORM (REFER TO STRUCTURAL)
- COMPACTED GRANULAR FILL (REFER TO STRUCTURAL)

F2 CONCRETE TOPPING

- 51mm CONCRETE TOPPING (REFER TO STRUCTURAL)
- EXISTING CONTAINER PLYWOOD FLOOR
- SPRAYFOAM CAVITY BETWEEN EXISTING CONTAINER FLOOR STEEL MEMBERS
- 10mil POLYETHYLENE SHEET VAPOUR RETARDER
- 102mm EPS RIGID INSULATION
- COMPACTED GRANULAR FILL (REFER TO STRUCTURAL)

F3 EXISTING CONTAINER FLOOR W/ SPRAYFOAM FLOOR CAVITY

- EXISTING CONTAINER PLYWOOD FLOOR
- SPRAYFOAM INSULATION IN CAVITY BETWEEN CONTAINER FLOOR STEEL MEMBERS

F4 WOOD JOIST FLOOR - INSULATED

- 16mm PLYWOOD SHEATHING (REFER TO STRUCTURAL)
- 184mm WOOD JOISTS @ 406mm O.C. (REFER TO STRUCTURAL)
- (FILL FULL JOIST CAVITY W/ BATT INSULATION)
- 6 MIL POLYETHYLENE VAPOUR BARRIER MEMBRANE
- 1/2" GYPSUM BOARD - PAINTED

SYMBOL LEGEND

	SECTION DETAILS & BUILDING SECTION TAG
	CALLOUT TAG
	ELEVATION TAG
	LEVEL TAG
	SPOT ELEVATION
	WALL TAG
	FLOOR TAG
	DOOR TAG
	GRID LINE
	INDICATES GLAZING
	BREAK LINE
	DOOR ACTUATOR
	CENTRE LINE
	DRAWING TITLE
	NORTH ARROW

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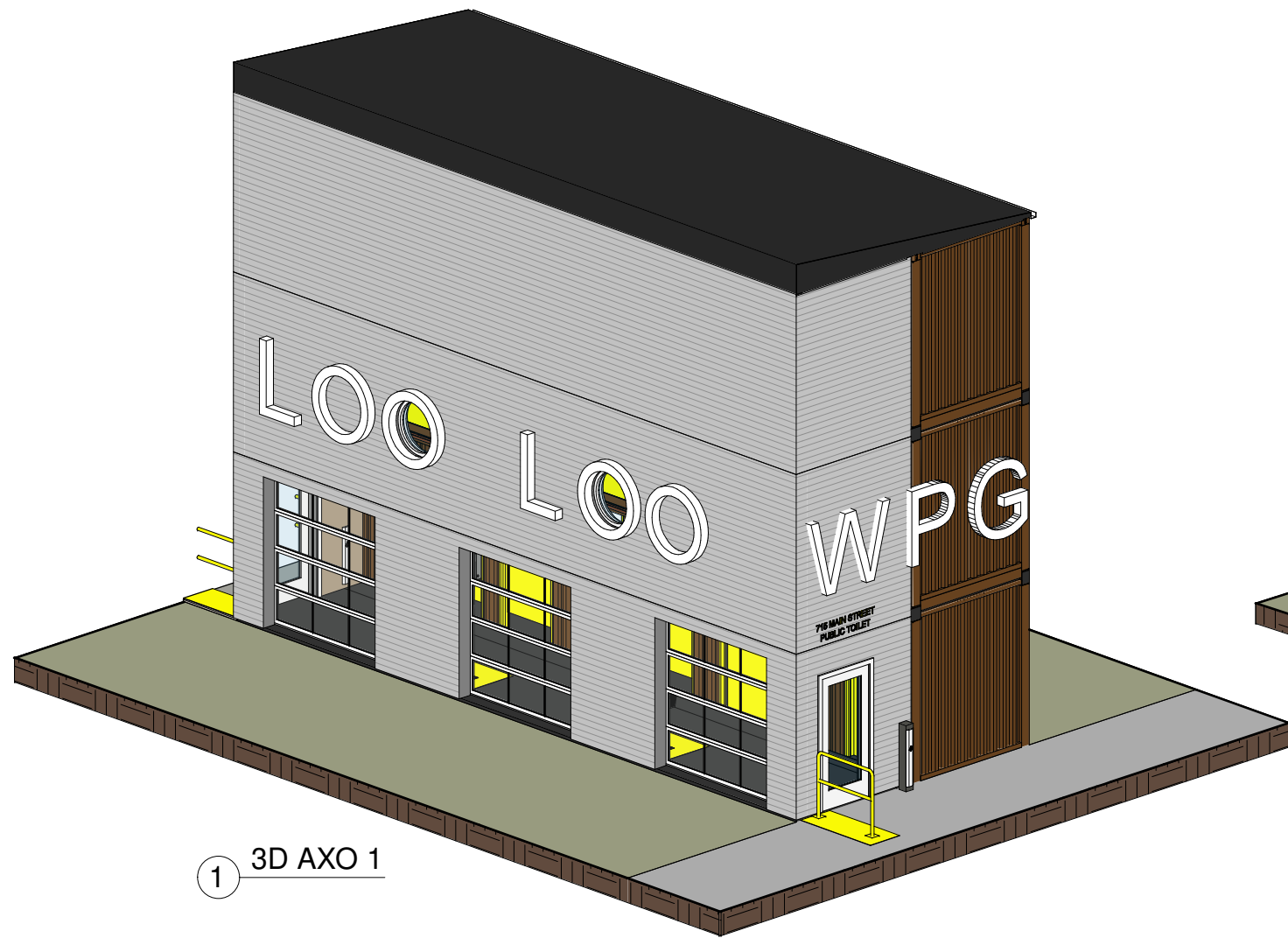
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1	ISSUED FOR CONSTRUCTION	MAR. 3, 2021

Drawing Title:
**ASSEMBLIES AND
GENERAL NOTES**

Sheet No:

A001

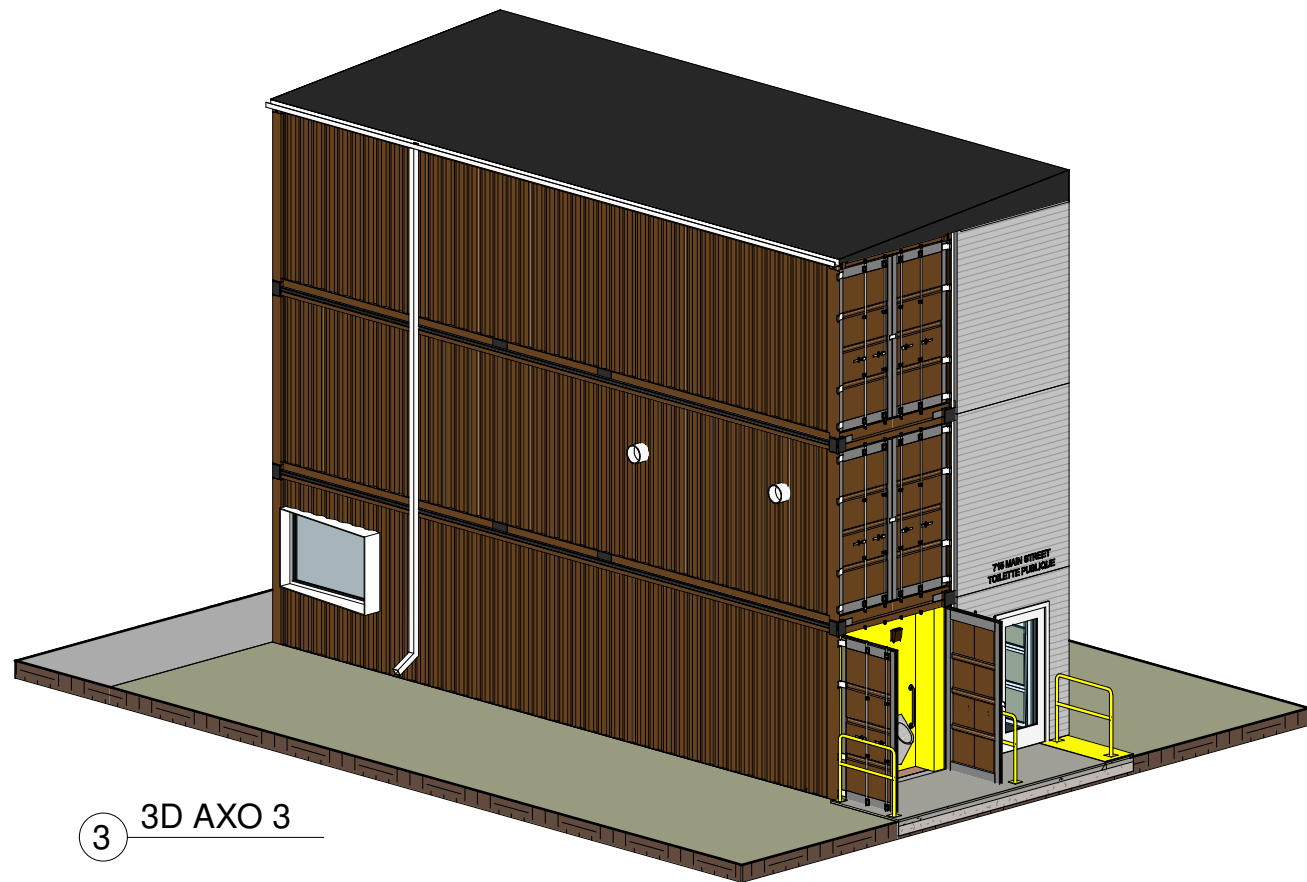
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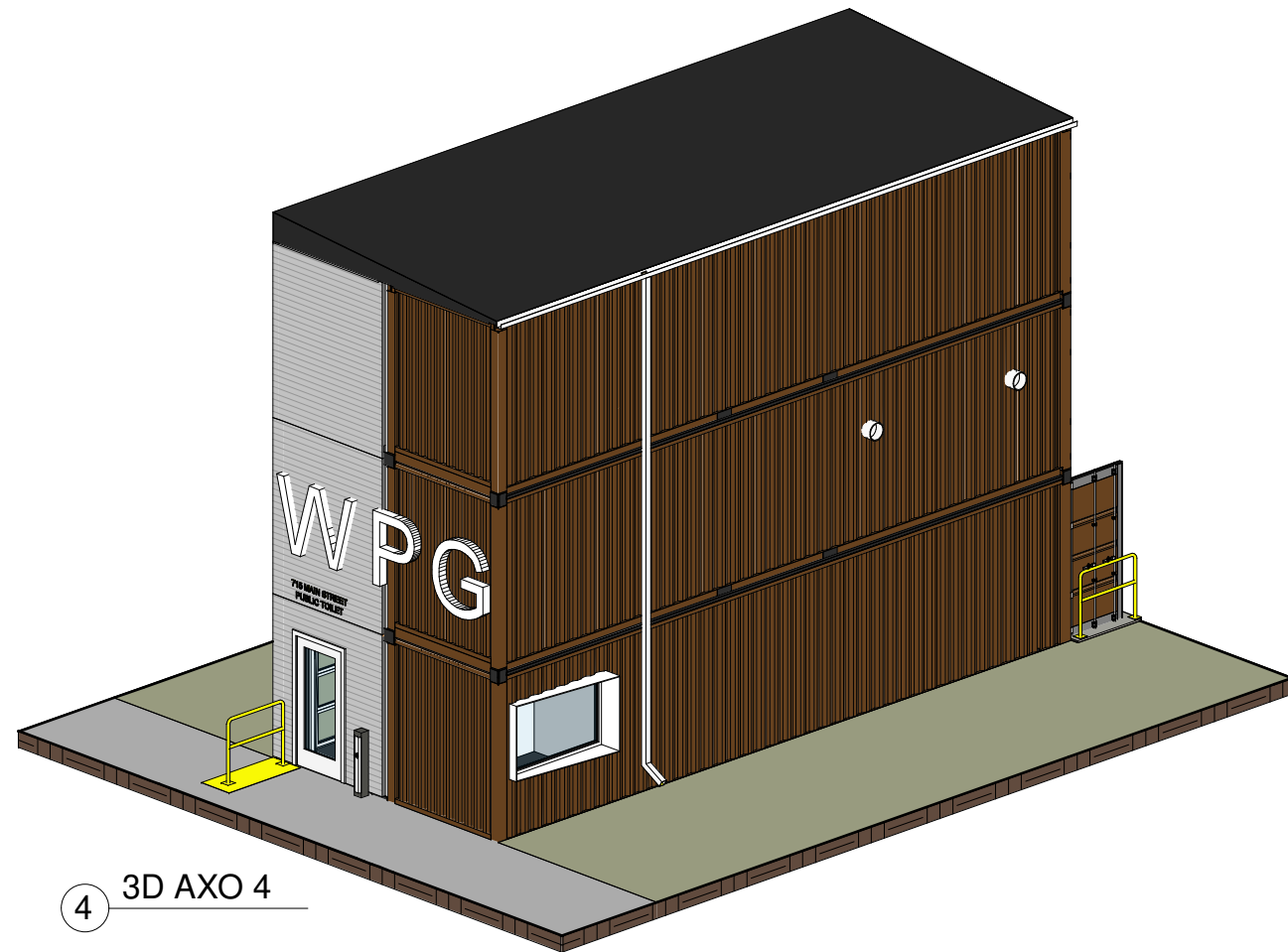
1 3D AXO 1



2 3D AXO 2



3 3D AXO 3



4 3D AXO 4

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Drawing Title:
3D AXO VIEWS

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A002

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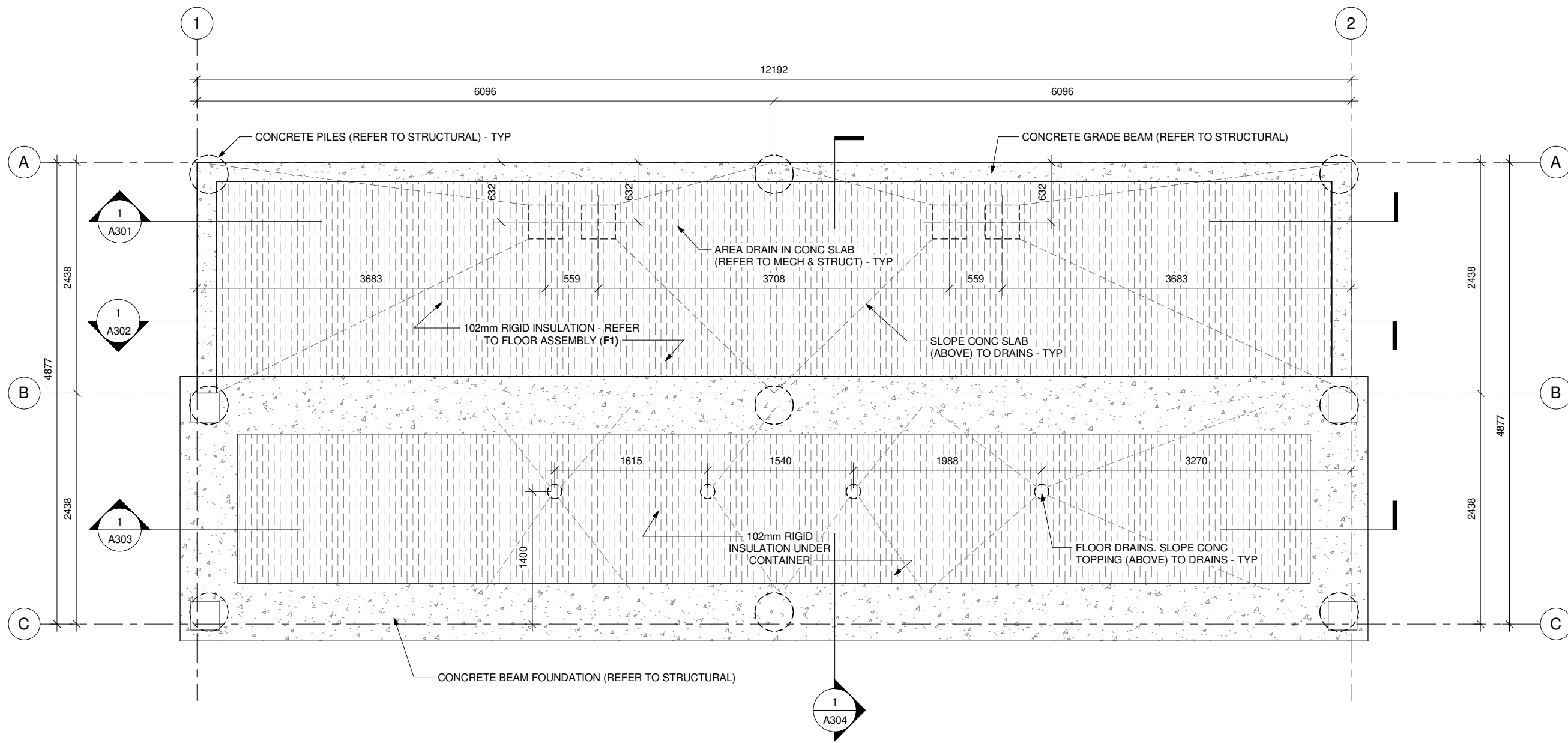


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Drawing Title:
FOUNDATION PLAN

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A101

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1 FOUNDATION PLAN
1:48



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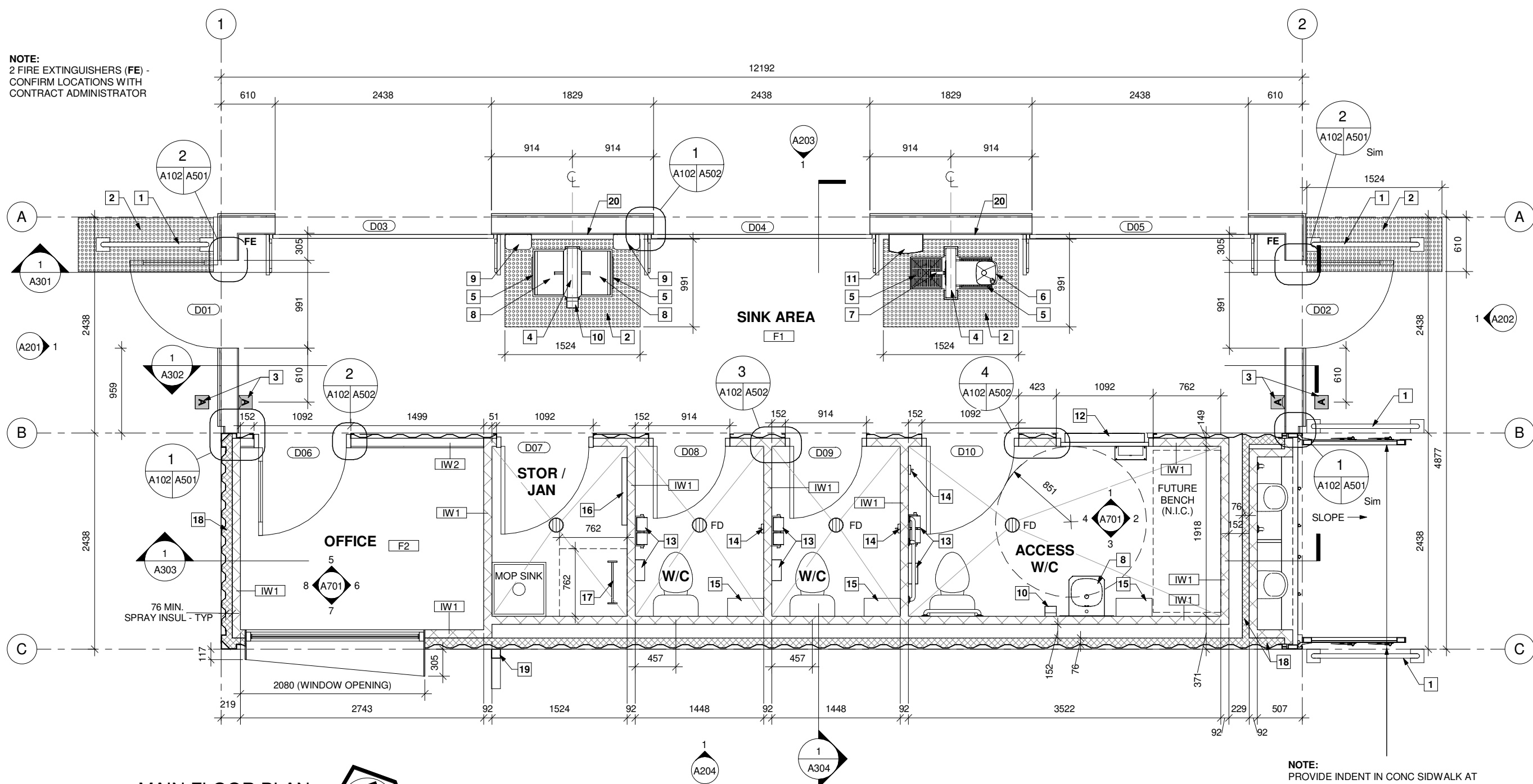
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MAIN CONTAINER
LEVEL PLAN

Sheet No:

A102

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NOTE:
2 FIRE EXTINGUISHERS (FE) -
CONFIRM LOCATIONS WITH
CONTRACT ADMINISTRATOR



NOTE:
PROVIDE INDENT IN CONC SIDEWALK AT
INSIDE OF STEEL GUARD TO ENSURE
SHIPPING CONTAINER DOORS ARE
OPERABLE. COORDINATE W/ SLOPE
AWAY FROM BUILDING (REFER TO CIVIL)

1 MAIN FLOOR PLAN
1 : 48



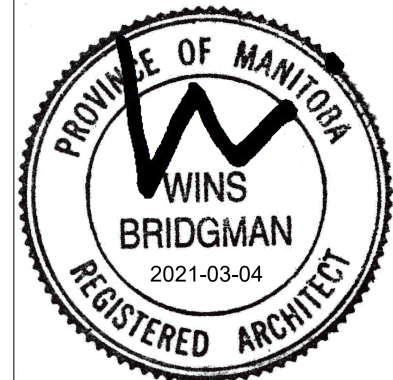
KEYNOTE LEGEND

1	51mmØ x 1067mm HIGH STEEL HSS GUARD - PAINTED	6	DRINKING FOUNTAIN - REFER TO MECHANICAL	11	GARBAGE - REFER TO SPEC	16	MOP RACK - REFER TO SPEC
2	TACTILE WARNING SURFACE - REFER TO SPEC	7	HOSE SPIGOT - REFER TO MECHANICAL	12	FOLD-DOWN BABY CHANGE TABLE - REFER TO SPEC	17	MECH CONTAINER LADDER ACCESS
3	BOLLARD (EXTERIOR) & WALL MOUNTED (INTERIOR) BAR TYPE DOOR ACTUATOR - TYP	8	HAND SINK - REFER TO MECHANICAL	13	SANITARY NAPKIN DISPOSAL & TOILET PAPER HOLDER IN ALL W/C STALLS (TYP) - REFER TO SPEC	18	76mm MIN. SPRAYFOAM INSULATION INDICATED THUS - TYP
4	PLUMBING PEDESTAL - REFER TO DETAILS	9	HAND DRYER - REFER TO SPEC	14	COLLAPSIBLE COAT HOOK IN ALL W/C STALLS (TYP) - REFER TO SPEC	19	PREFIN METAL DOWNSPOUT
5	AREA DRAIN - REFER TO MECHANICAL	10	SOAP DISPENSER - REFER TO SPEC	15	STAINLESS STEEL SHELF IN ALL W/C STALLS (TYP) - REFER TO SPEC	20	13mm WALL APPLIED SOLID SURFACE BETWEEN DOORS. HEIGHT TO MATCH 2 PLUMBING PEDESTALS

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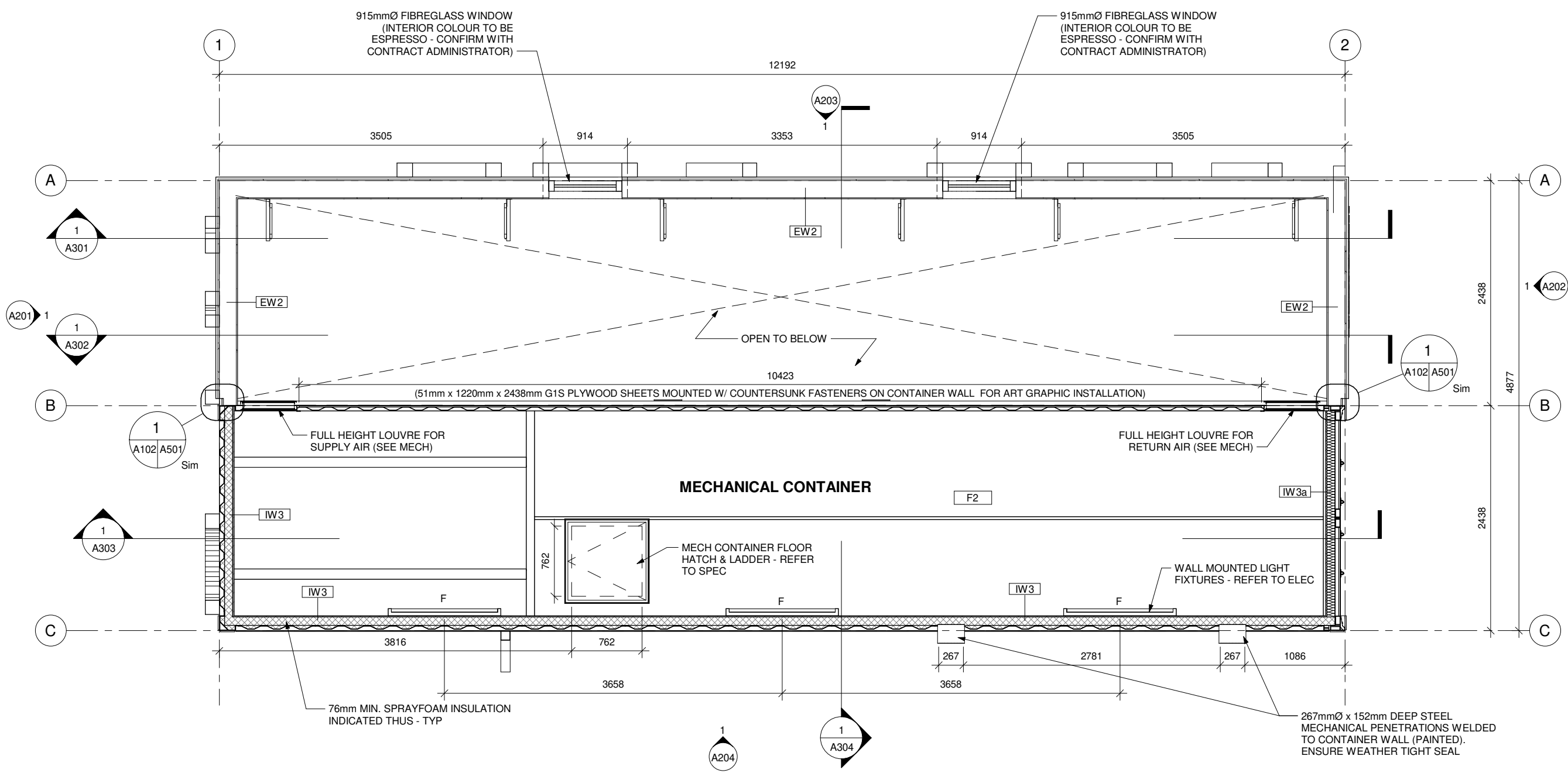
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SECOND CONTAINER
LEVEL PLAN

Sheet No:

A103

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1 SECOND CONTAINER LEVEL PLAN
1 : 48

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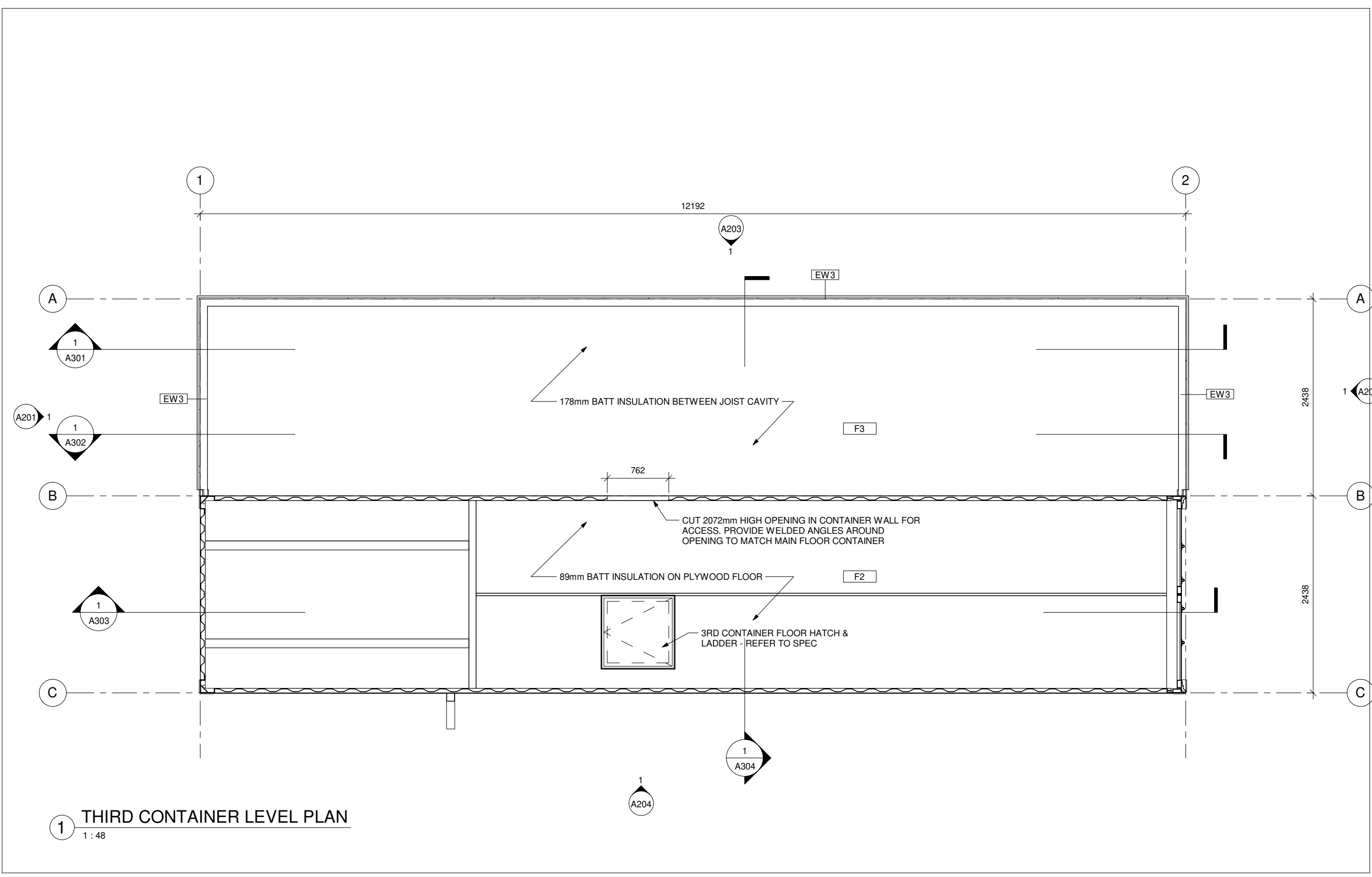


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Drawing Title:
**THIRD CONTAINER
LEVEL PLAN**

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A104

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1 THIRD CONTAINER LEVEL PLAN
1:48

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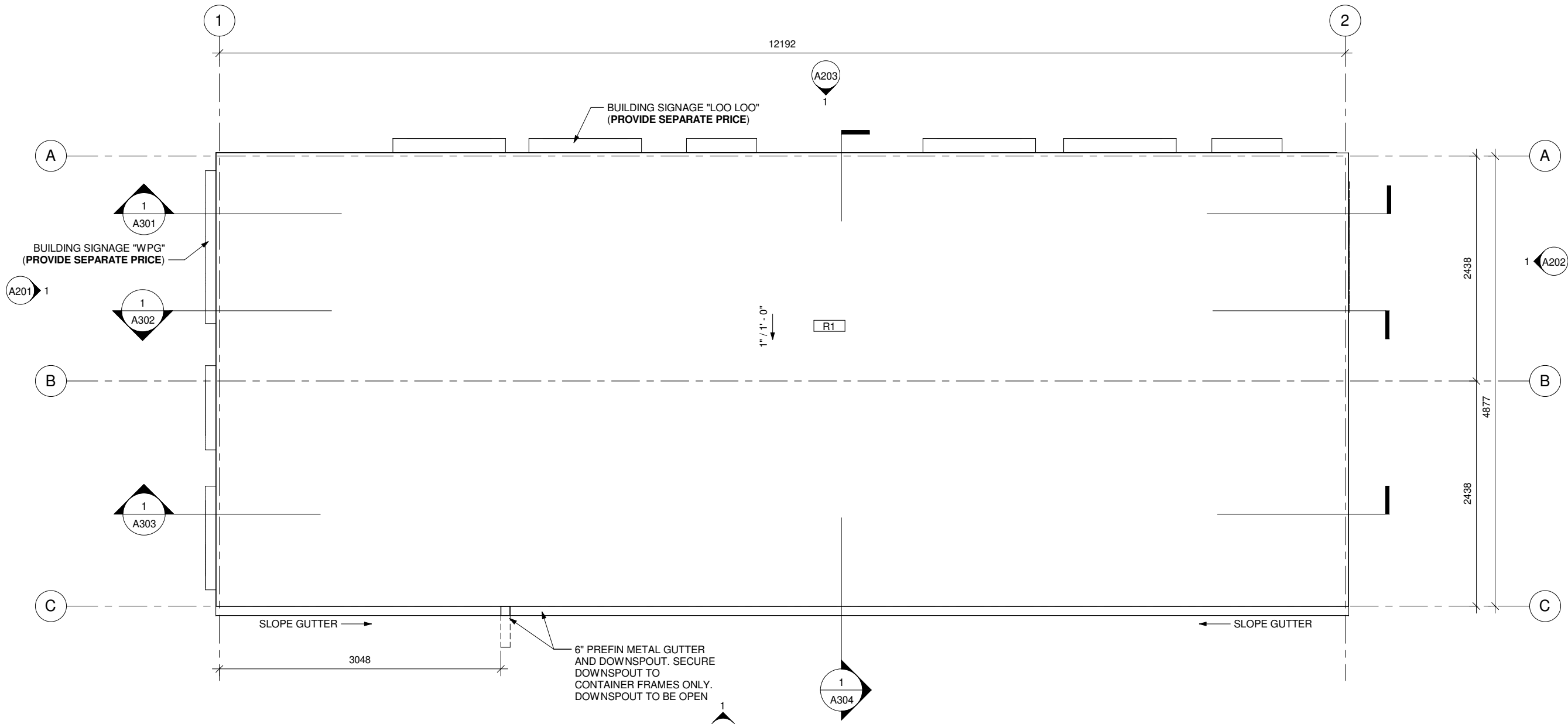


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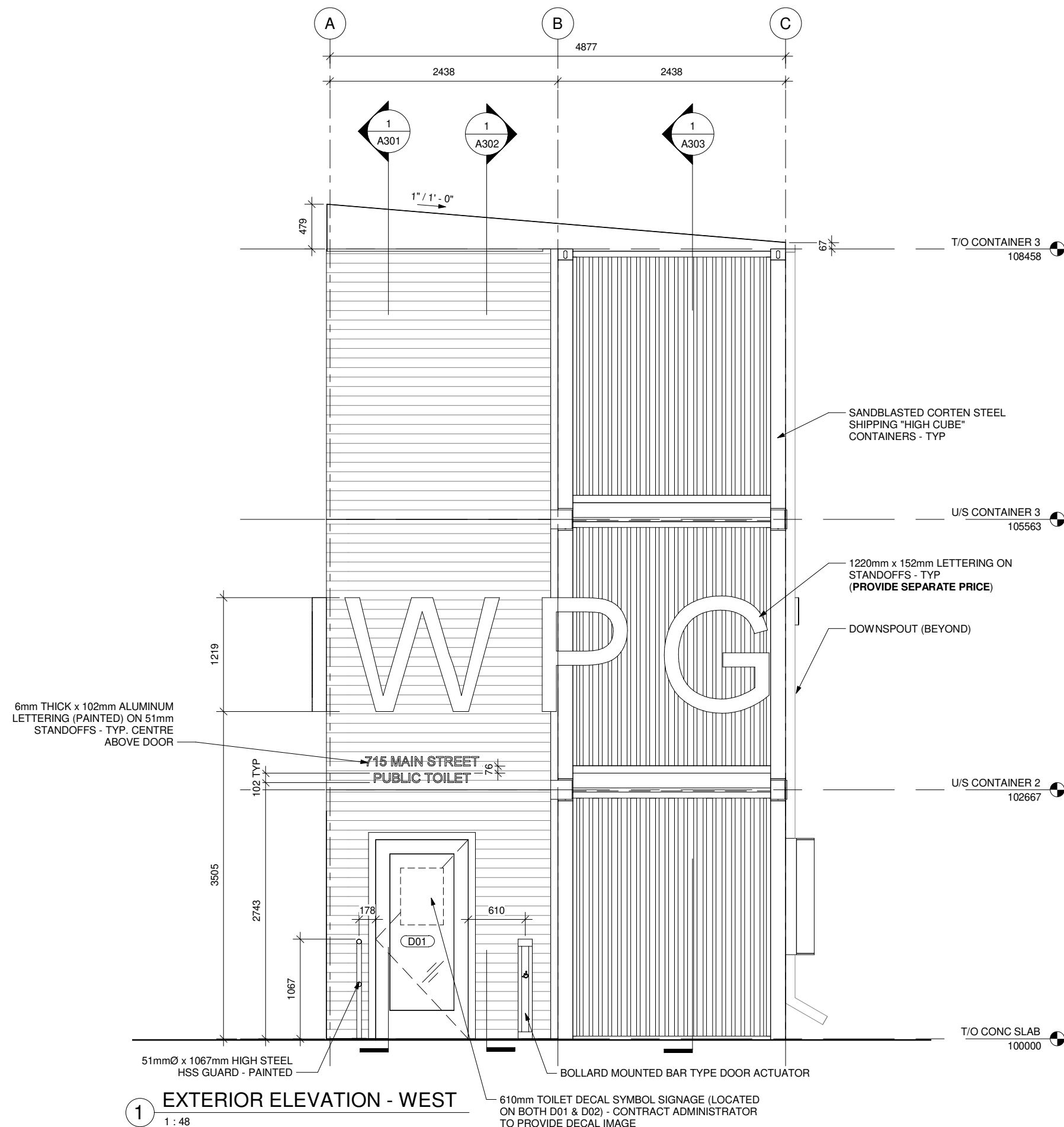
Drawing Title:
ROOF PLAN

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1 ROOF PLAN
1 : 48



1 EXTERIOR ELEVATION - WEST
1 : 48

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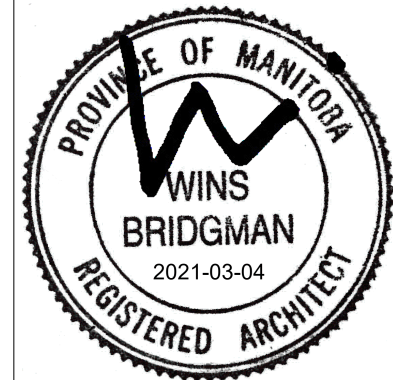
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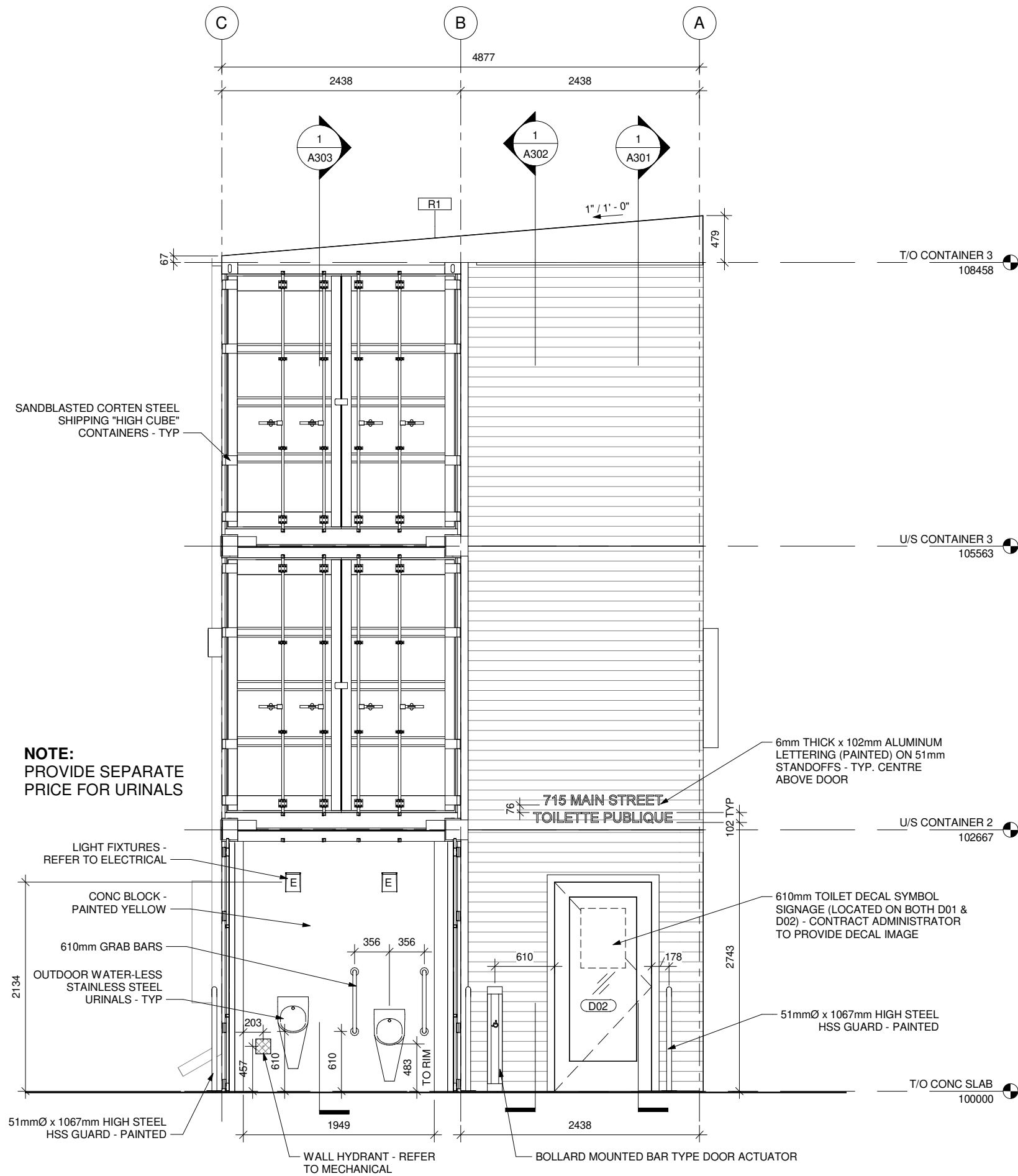


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**EXTERIOR
ELEVATIONS**

Sheet No:
A201

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1 EXTERIOR ELEVATION - EAST
1 : 48

Project:
715 MAIN STREET
PUBLIC TOILET

715 Main Street, Winnipeg, MB

Project Number: 2022
Bid Opportunity Number: 54-2021



Issue/Revision Date

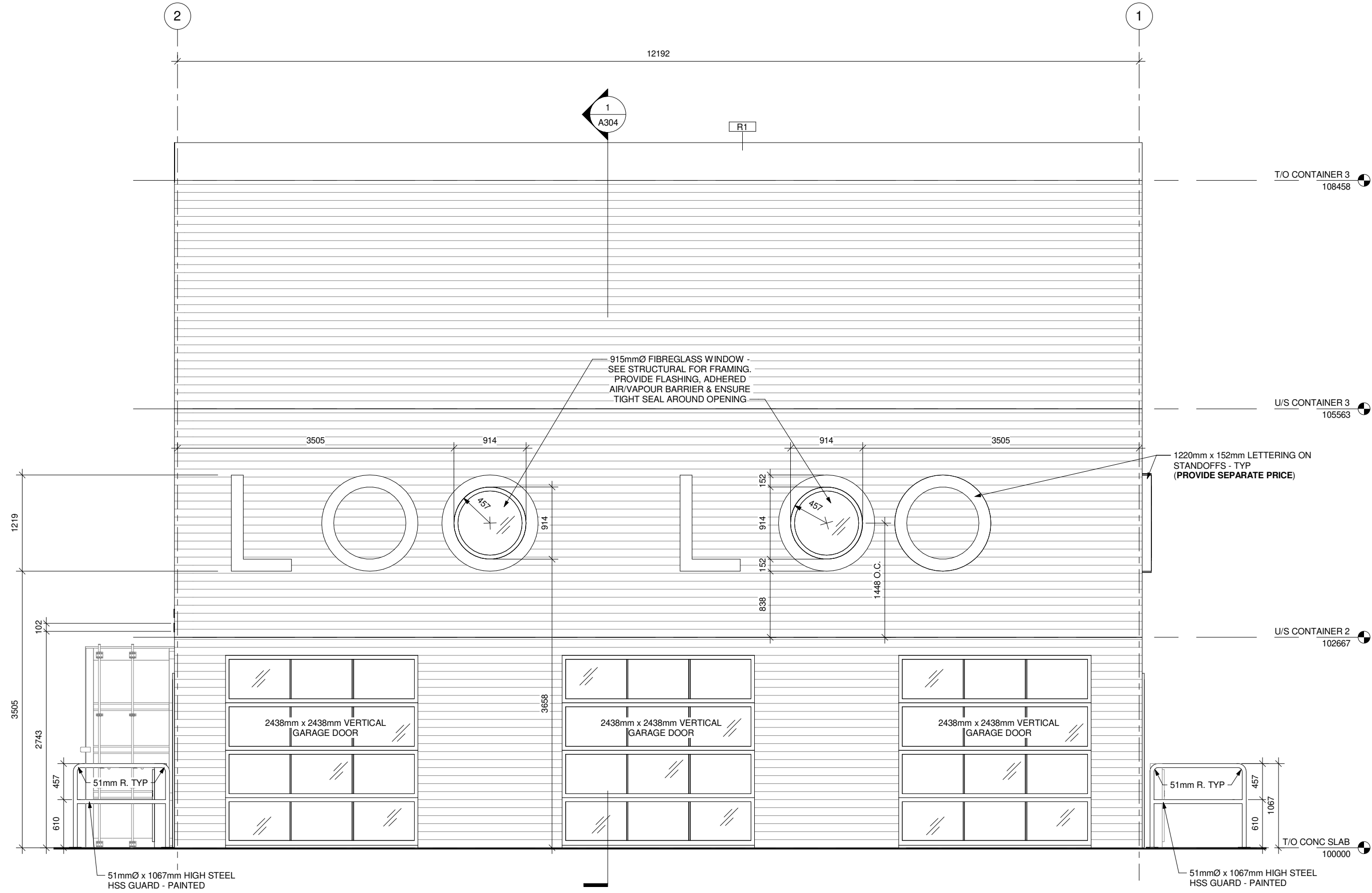
1 ISSUED FOR CONSTRUCTION MAR. 3, 2021

Drawing Title:
EXTERIOR
ELEVATIONS

Sheet No:

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715 Main Street, Winnipeg, MB

Project Number: 2022
Bid Opportunity Number: 54-2021



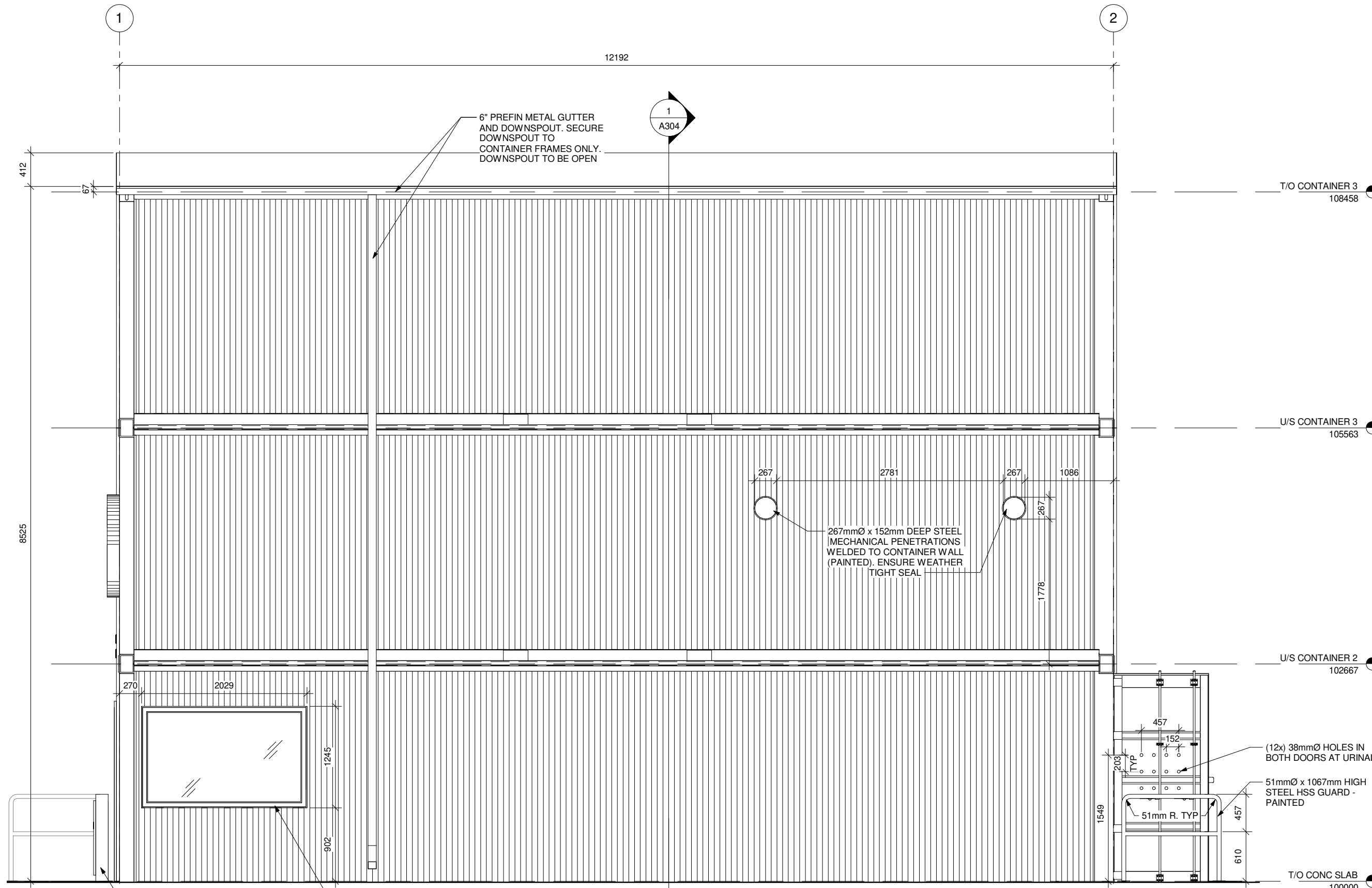
#	Issue/Revision	Date
1	ISSUED FOR CONSTRUCTION	MAR. 3, 2021

Drawing Title:
EXTERIOR
ELEVATIONS

Sheet No:
A203

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1 EXTERIOR ELEVATION - NORTH
1 : 48



6" PREFIN METAL GUTTER AND DOWNSPOUT. SECURE DOWNSPOUT TO CONTAINER FRAMES ONLY. DOWNSPOUT TO BE OPEN

1
A304

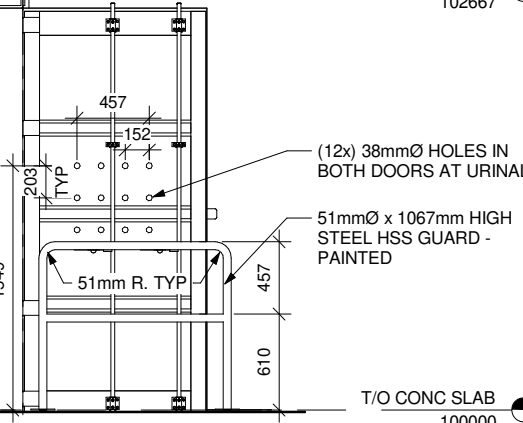
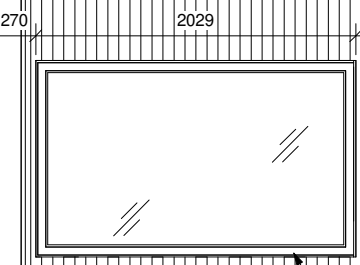
267mmØ x 152mm DEEP STEEL MECHANICAL PENETRATIONS WELDED TO CONTAINER WALL (PAINTED). ENSURE WEATHER TIGHT SEAL

T/O CONTAINER 3
108458

U/S CONTAINER 3
105563

U/S CONTAINER 2
102667

T/O CONG SLAB
100000



BOLLARD MOUNTED BAR TYPE DOOR ACTUATOR (BEYOND)

FIBREGLASS DUAL PANE TEMPERED WINDOW INSIDE 6mm STEEL PLATE WINDOW FRAME - PAINTED (SLOPE FRAME HEAD TO DRAIN). REFER TO STRUCTURAL FOR OPENING STEEL ANGLES

(12x) 38mmØ HOLES IN BOTH DOORS AT URINAL
51mmØ x 1067mm HIGH STEEL HSS GUARD - PAINTED
51mm R. TYP

1
1 : 48
EXTERIOR ELEVATION - SOUTH

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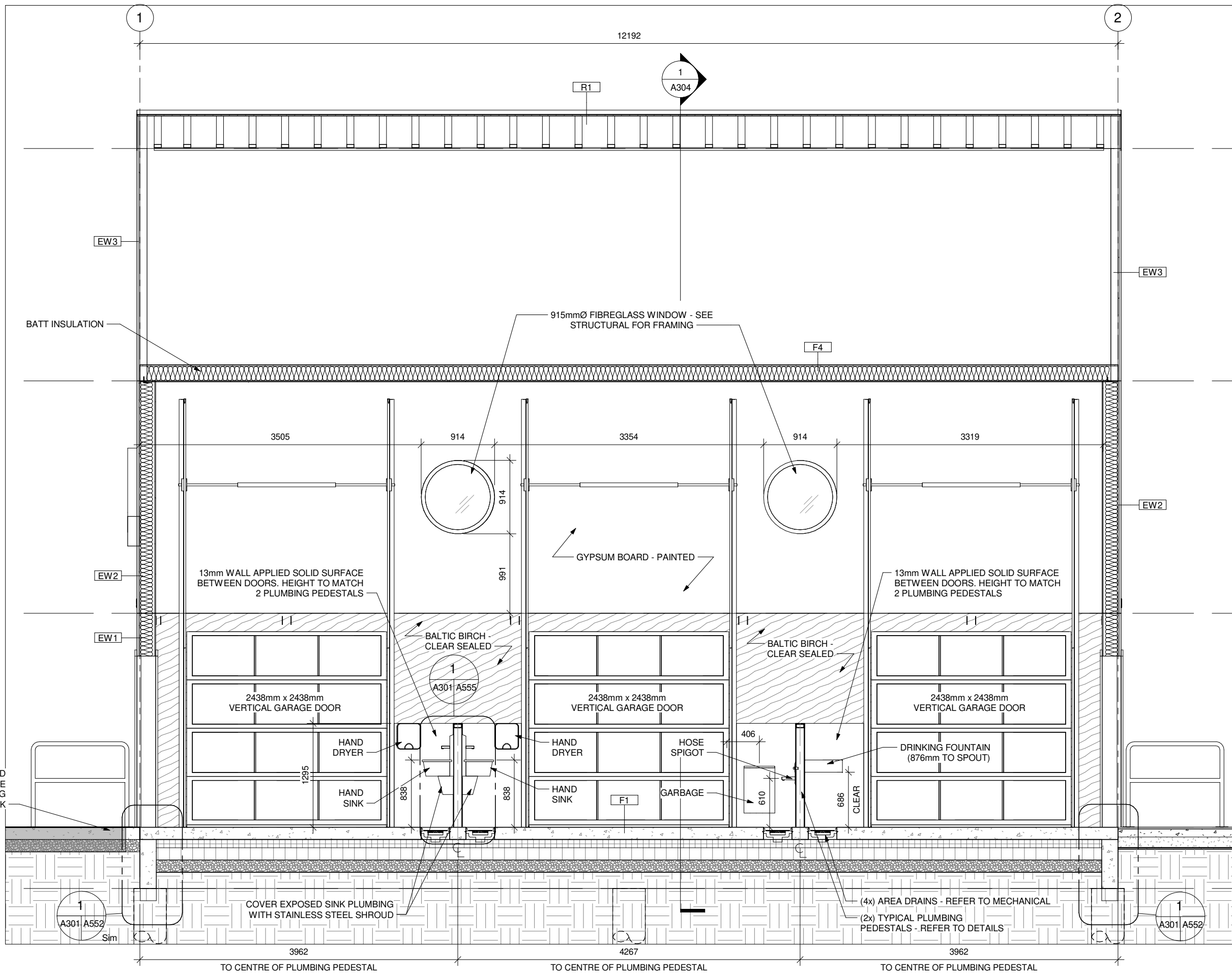


#	Issue/Revision	Date
1	ISSUED FOR CONSTRUCTION	MAR. 3, 2021

Drawing Title:
**EXTERIOR
ELEVATIONS**

Sheet No:
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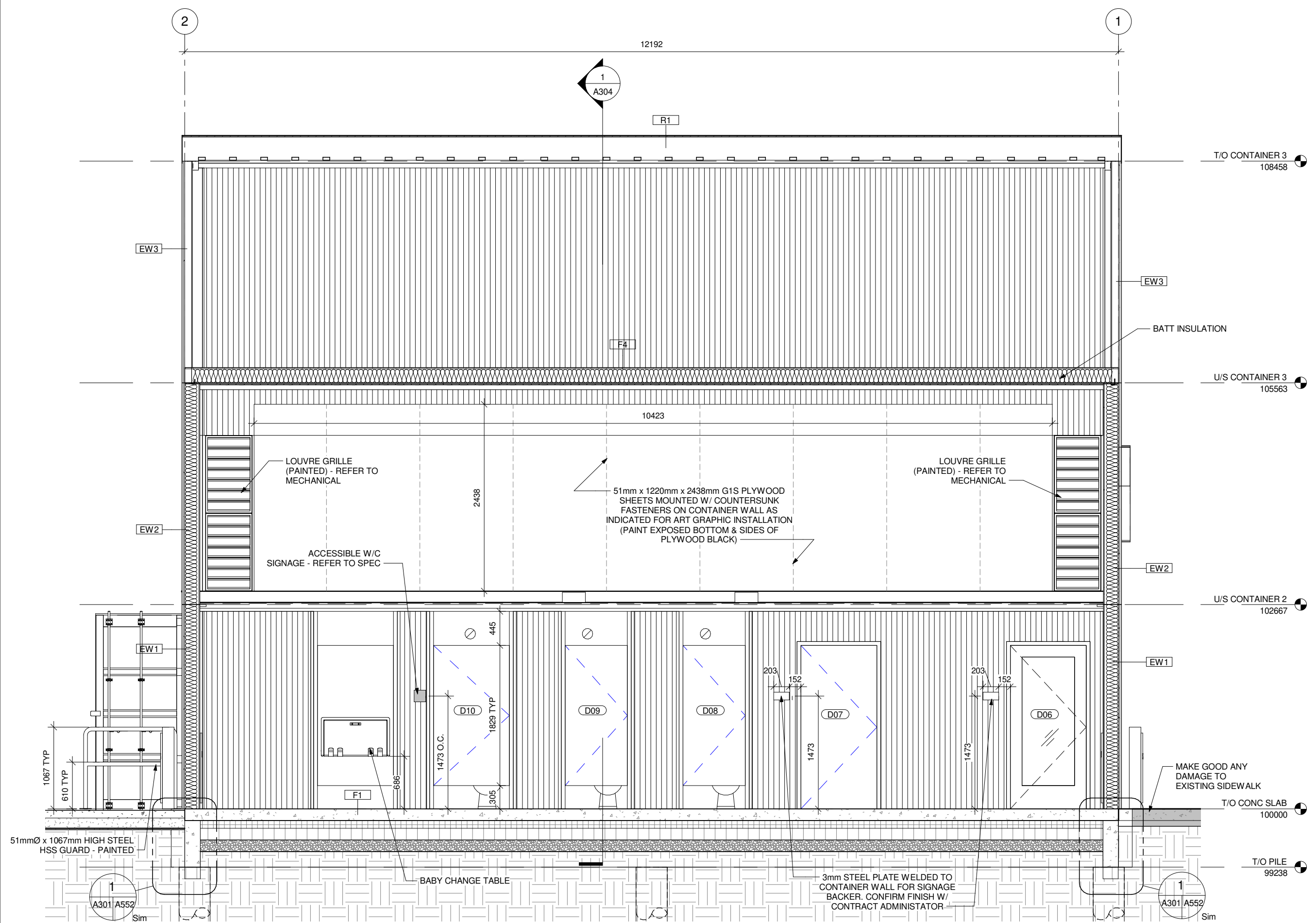
#	Issue/Revision	Date
1	ISSUED FOR CONSTRUCTION	MAR. 3, 2021

Drawing Title:
BUILDING SECTION

Sheet No:
A301

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1 BUILDING SECTION 1
1 : 48



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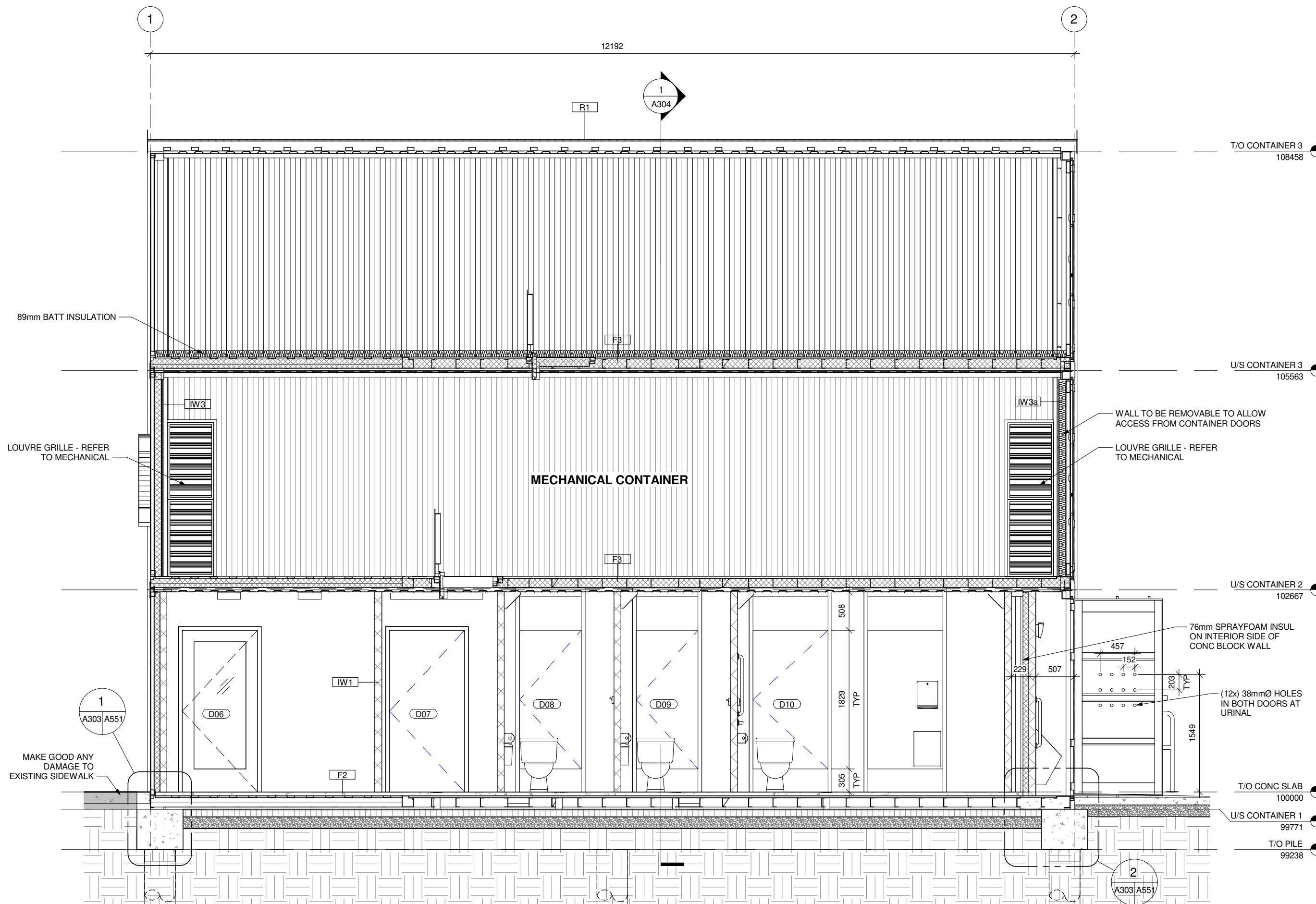
#	Issue/Revision	Date
1	ISSUED FOR CONSTRUCTION	MAR. 3, 2021

Drawing Title:
BUILDING SECTION

Sheet No:
A302

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1 BUILDING SECTION 2
1 : 48



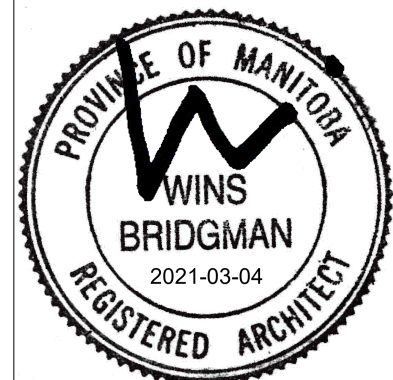
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Bid Opportunity Number: 54-2021

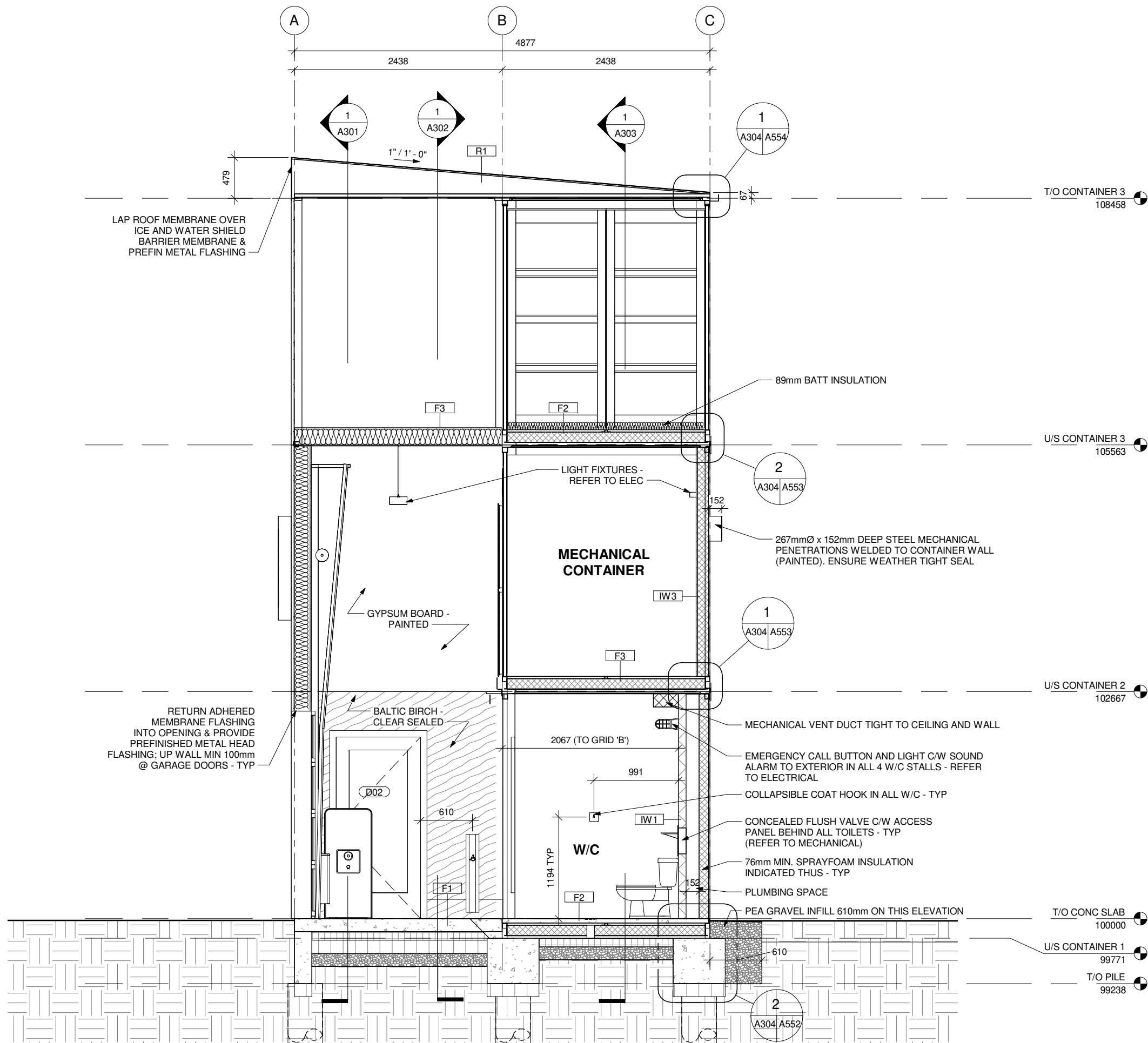


#	Issue/Revision	Date
1	ISSUED FOR CONSTRUCTION	MAR. 3, 2021

Drawing Title:
BUILDING SECTION

Sheet No:
A303

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#	Issue/Revision	Date
1	ISSUED FOR CONSTRUCTION	MAR. 3, 2021

Drawing Title:
BUILDING SECTION

Sheet No:
A304

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Project:
**715 MAIN STREET
PUBLIC TOILET**

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Project Number: 2022
Bid Opportunity Number: 54-2021

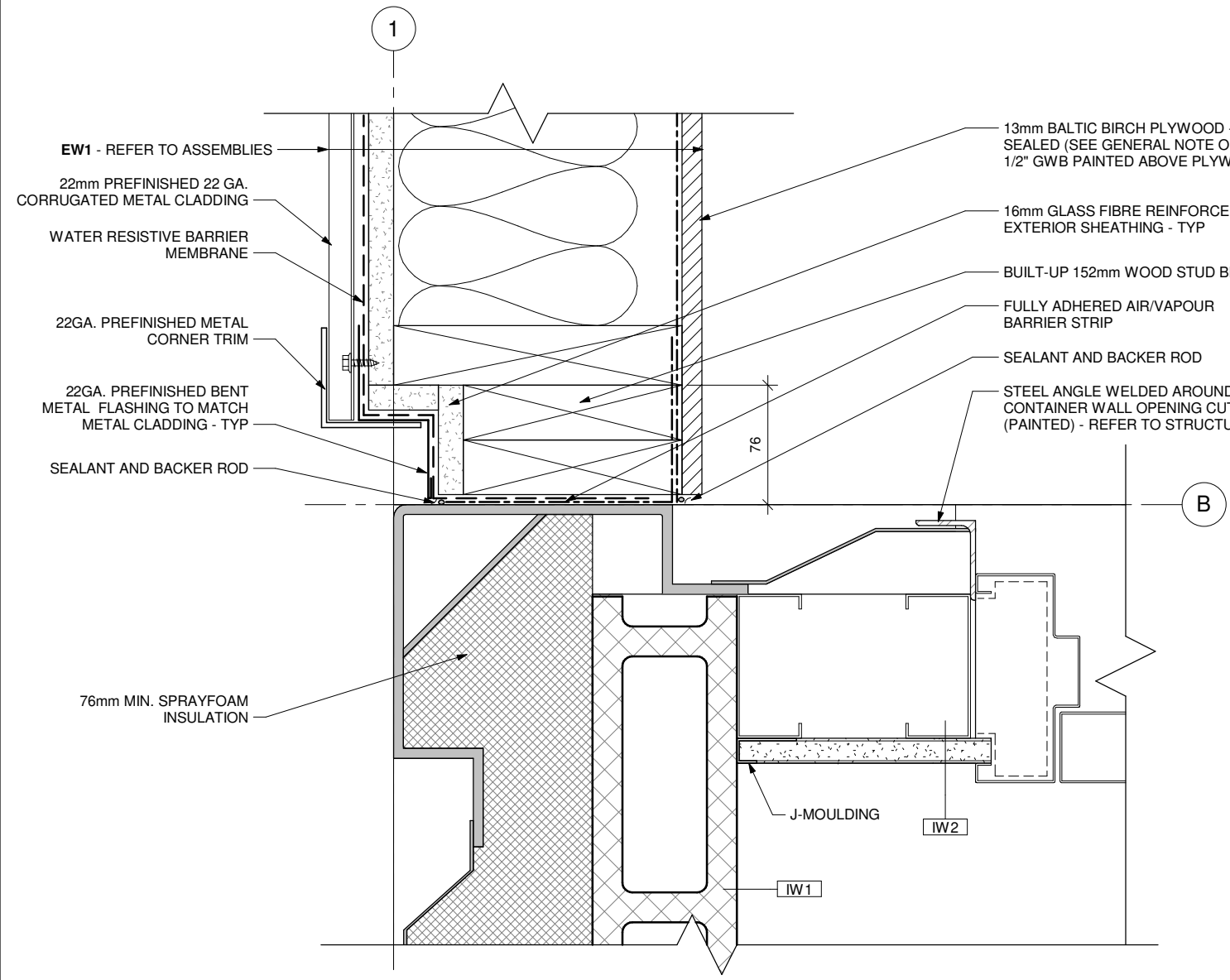


#	Issue/Revision	Date
1	ISSUED FOR CONSTRUCTION	MAR. 3, 2021

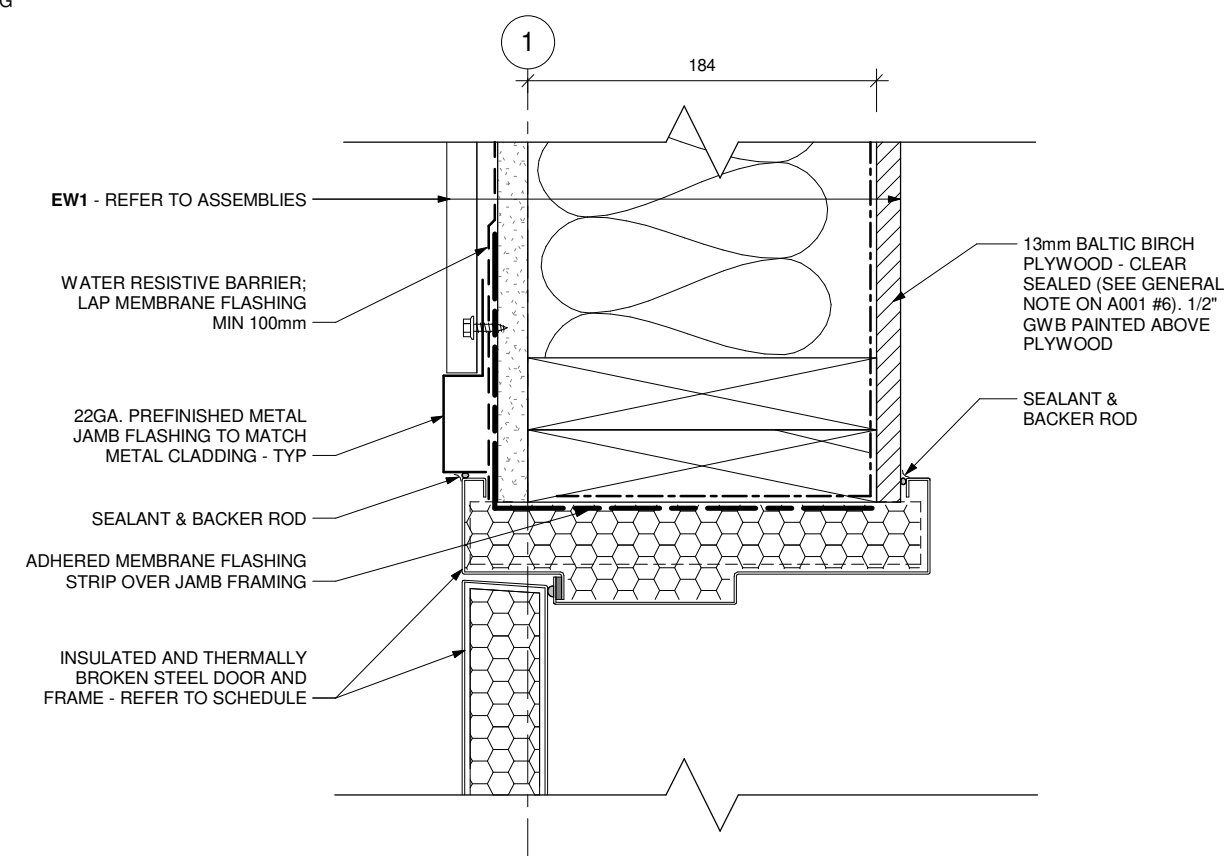
Drawing Title:
PLAN DETAILS

Sheet No:
A501

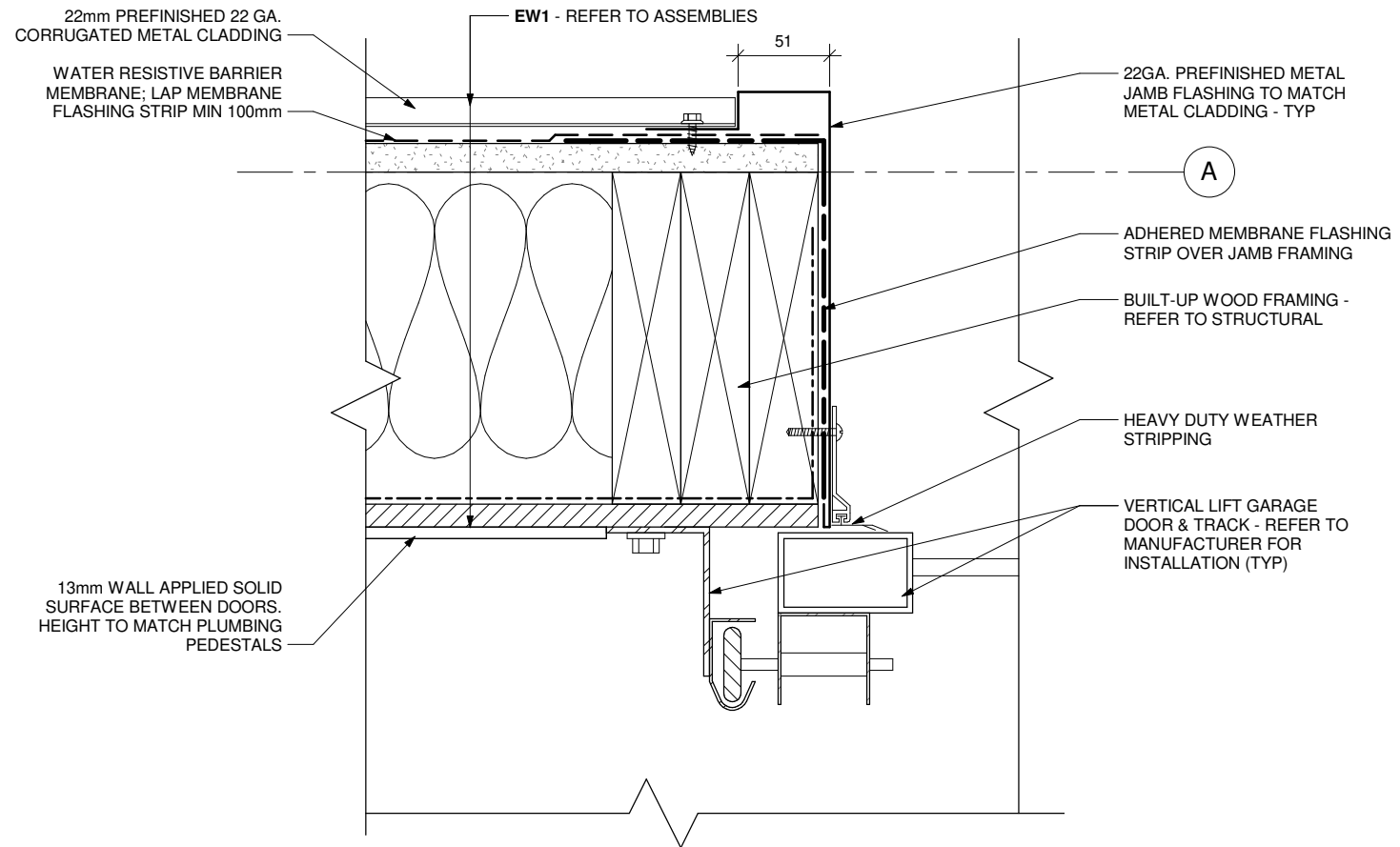
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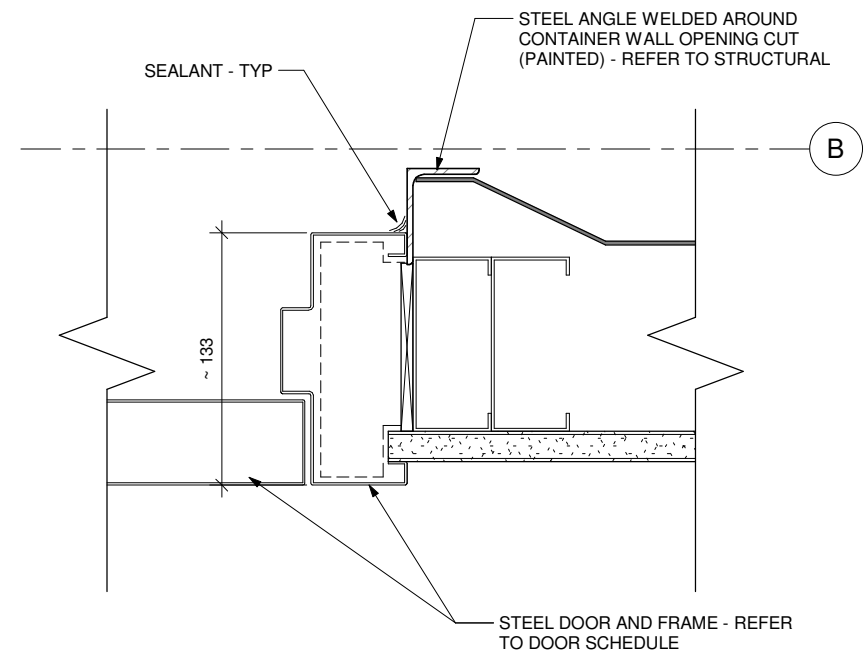
1 PLAN DETAIL - EXTERIOR WALL REVEAL AT GRIDLINE 'B'
1:4



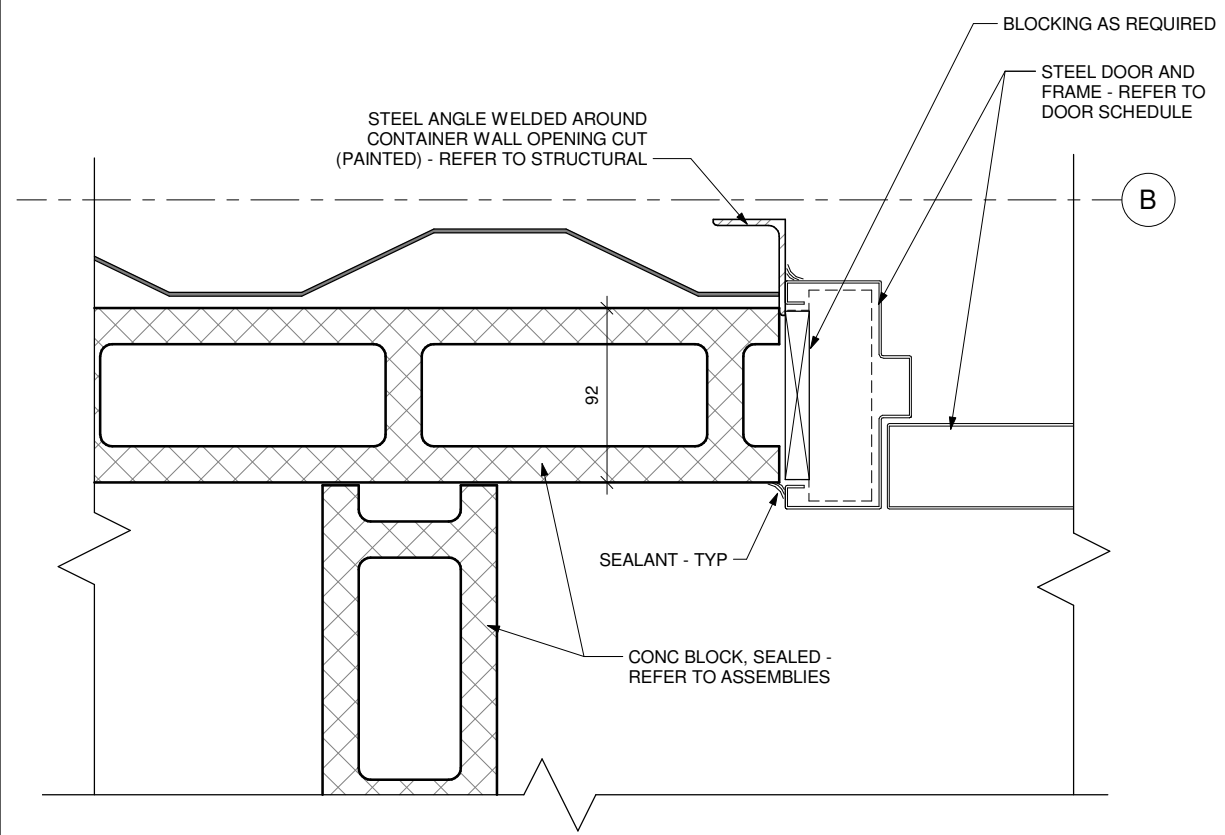
2 PLAN DETAIL - EXTERIOR DOOR JAMB
1:4



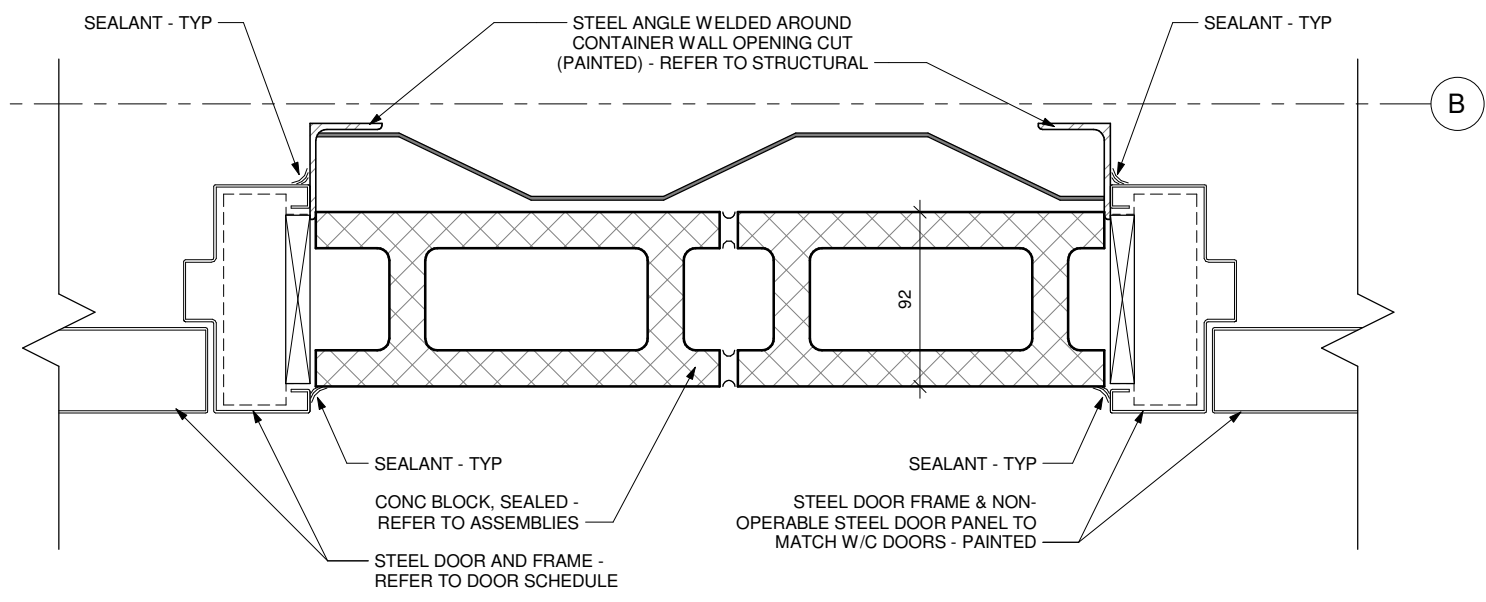
1 PLAN DETAIL - GARAGE DOOR JAMB - TYPICAL
1:4



2 PLAN DETAIL - OFFICE DOOR JAMB
1:4



3 PLAN DETAIL - W/C DOOR JAMB TYPICAL
1:4



4 PLAN DETAIL - ACCESSIBLE W/C DOOR JAMB
1:4

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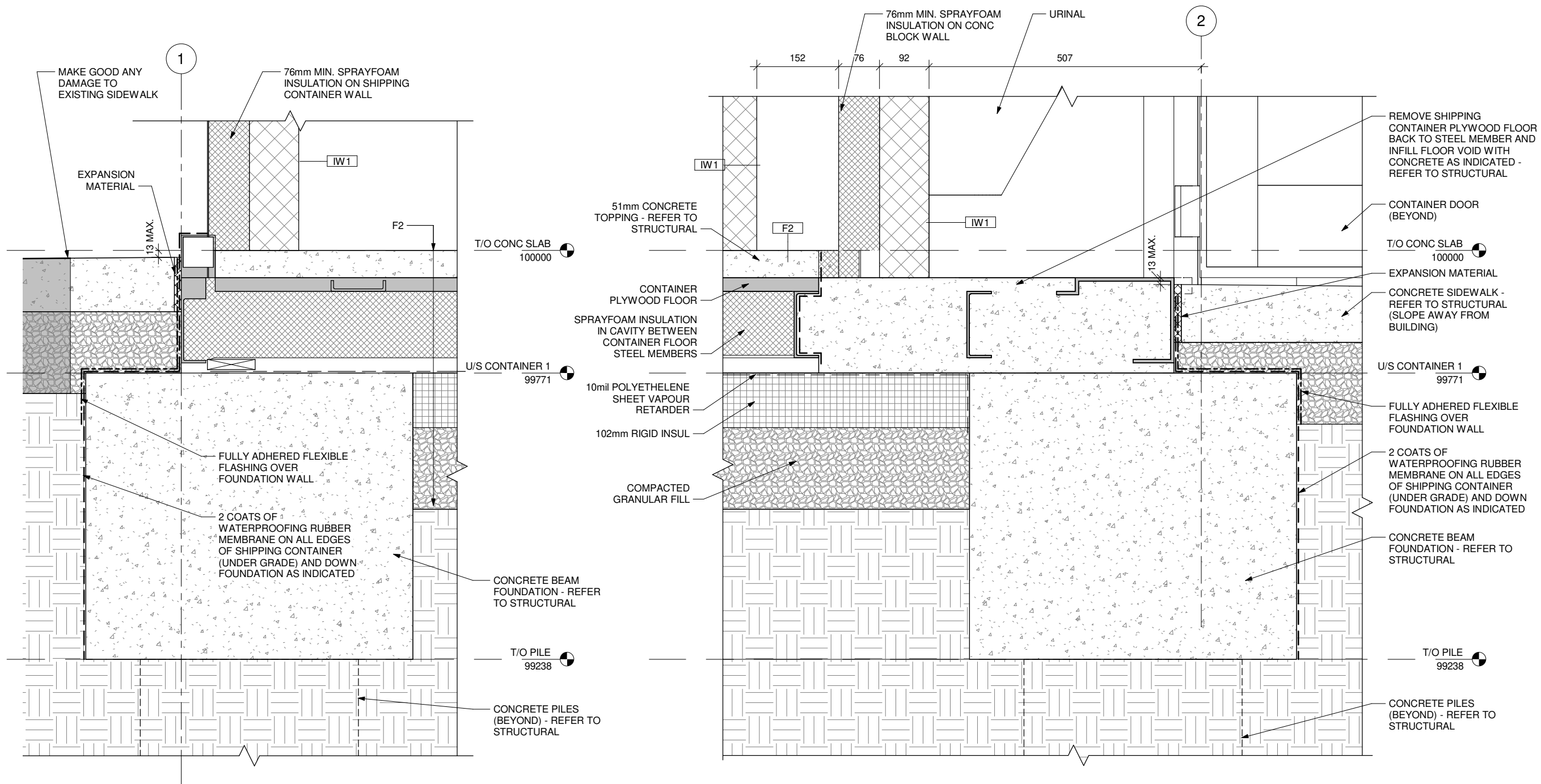
#	Issue/Revision	Date
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Drawing Title:
PLAN DETAILS

Sheet No:
A502

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NOTE:
 PROVIDE INDENT IN CONC SIDEWALK AT INSIDE OF STEEL GUARD TO
 ENSURE SHIPPING CONTAINER DOORS ARE OPERABLE.
 COORDINATE W/ SLOPE AWAY FROM BUILDING (REFER TO CIVIL)



1 SECTION DETAIL - FOUNDATION AT EXISTING SIDEWALK
 1:8

2 SECTION DETAIL - FOUNDATION AT URINALS
 1:8

Project:
 715 MAIN STREET
 PUBLIC TOILET

715 Main Street, Winnipeg, MB

Project Number: 2022
 Bid Opportunity Number: 54-2021



#	Issue/Revision	Date
1	ISSUED FOR CONSTRUCTION	MAR. 3, 2021

Drawing Title:
 SECTION DETAILS

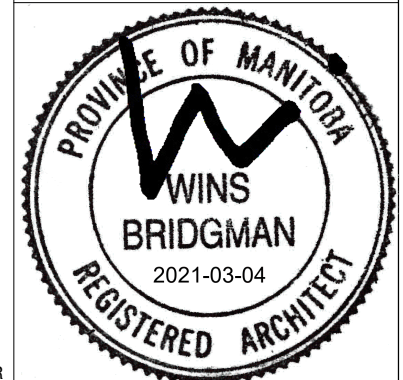
Sheet No:
A551

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Project:
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PUBLIC TOILET

715 Main Street, Winnipeg, MB

Project Number: 2022
Bid Opportunity Number: 54-2021

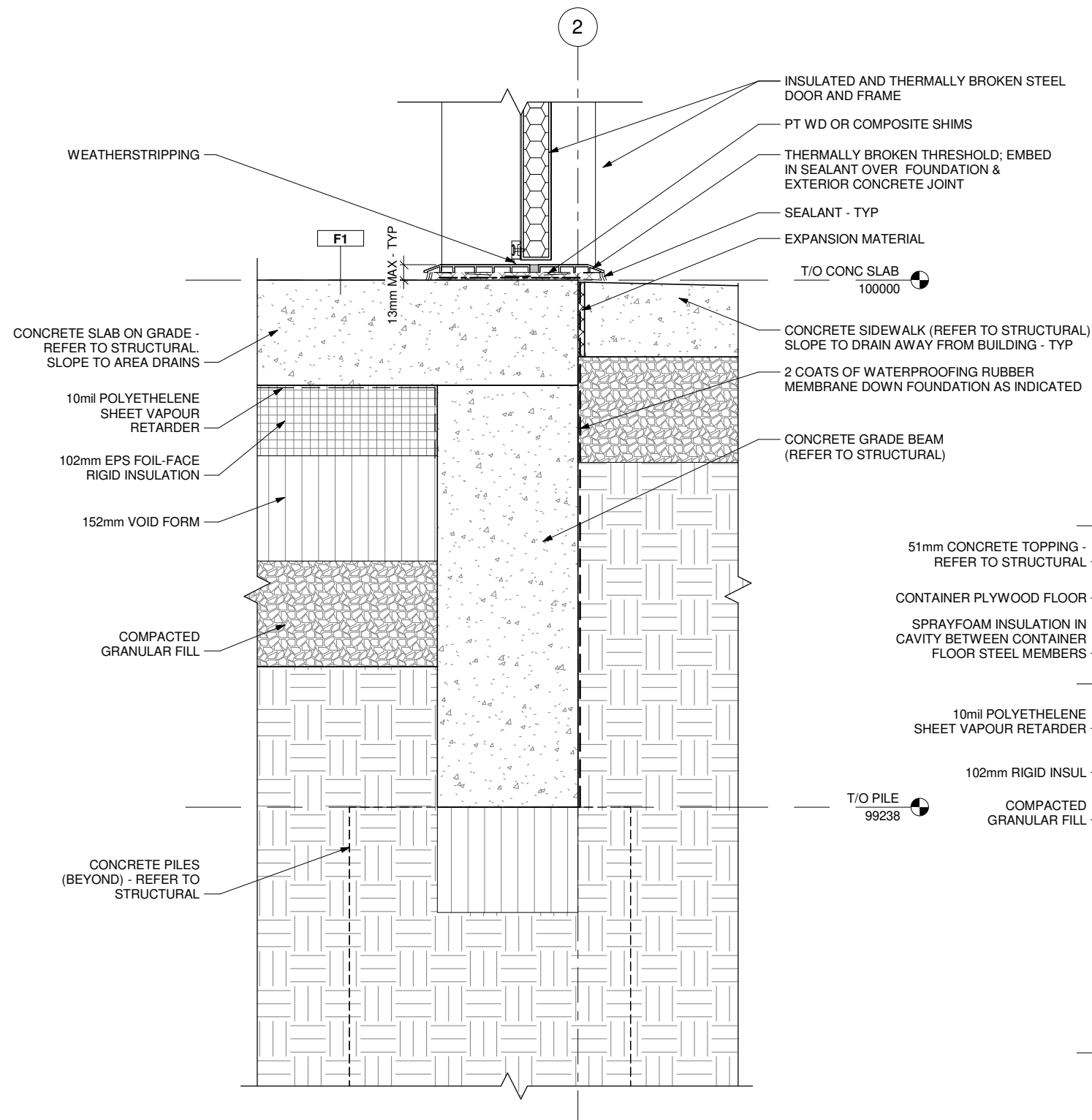


#	Issue/Revision	Date
1	ISSUED FOR CONSTRUCTION	MAR. 3, 2021

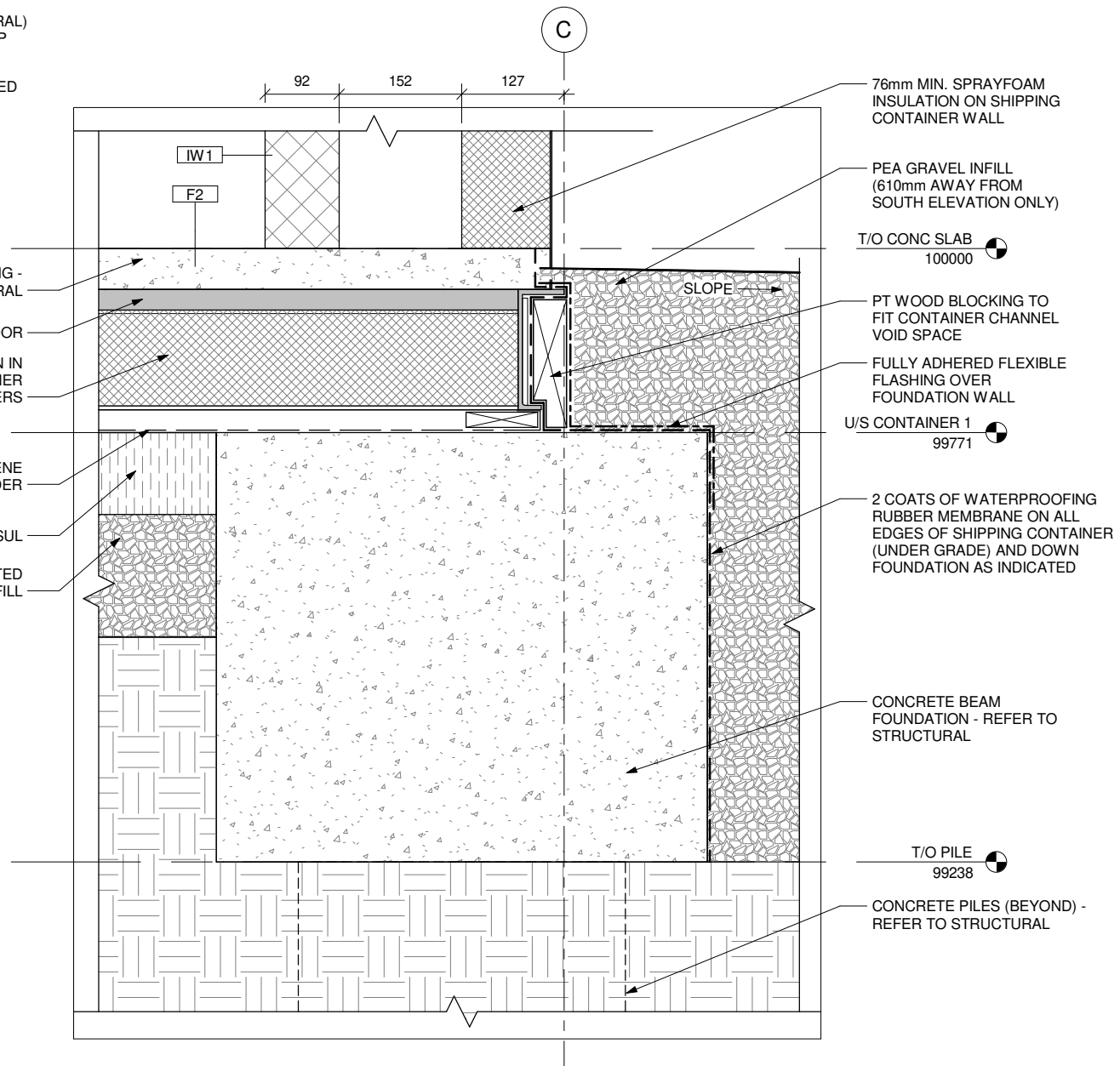
Drawing Title:
SECTION DETAILS

Sheet No:
A552

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1 SECTION DETAIL - EXTERIOR DOOR AT CONC SLAB - TYPICAL
1:8



2 SECTION DETAIL - FOUNDATION AT W/C CONTAINER
1:8

Project:
**715 MAIN STREET
PUBLIC TOILET**

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Project Number: 2022
Bid Opportunity Number: 54-2021

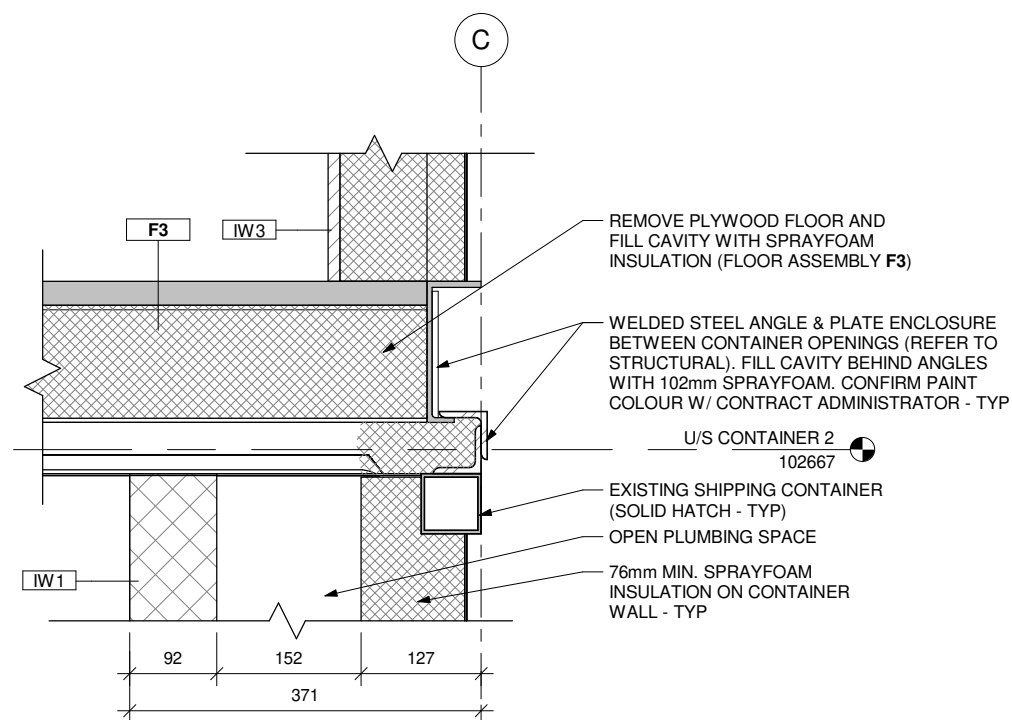


#	Issue/Revision	Date
1	ISSUED FOR CONSTRUCTION	MAR. 3, 2021

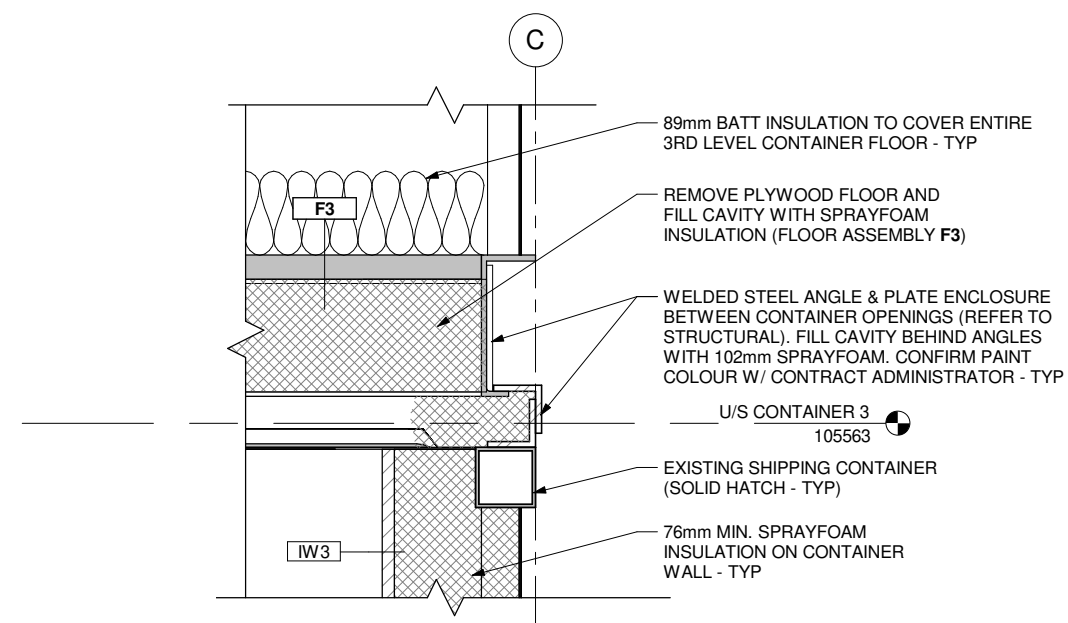
Drawing Title:
SECTION DETAILS

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1 SECTION DETAIL - CONTAINER ENCLOSURE @ 1ST CONTAINER
1:8



2 SECTION DETAIL - CONTAINER ENCLOSURE @ 2ND CONTAINER
1:8

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#	Issue/Revision	Date
1	ISSUED FOR CONSTRUCTION	MAR. 3, 2021

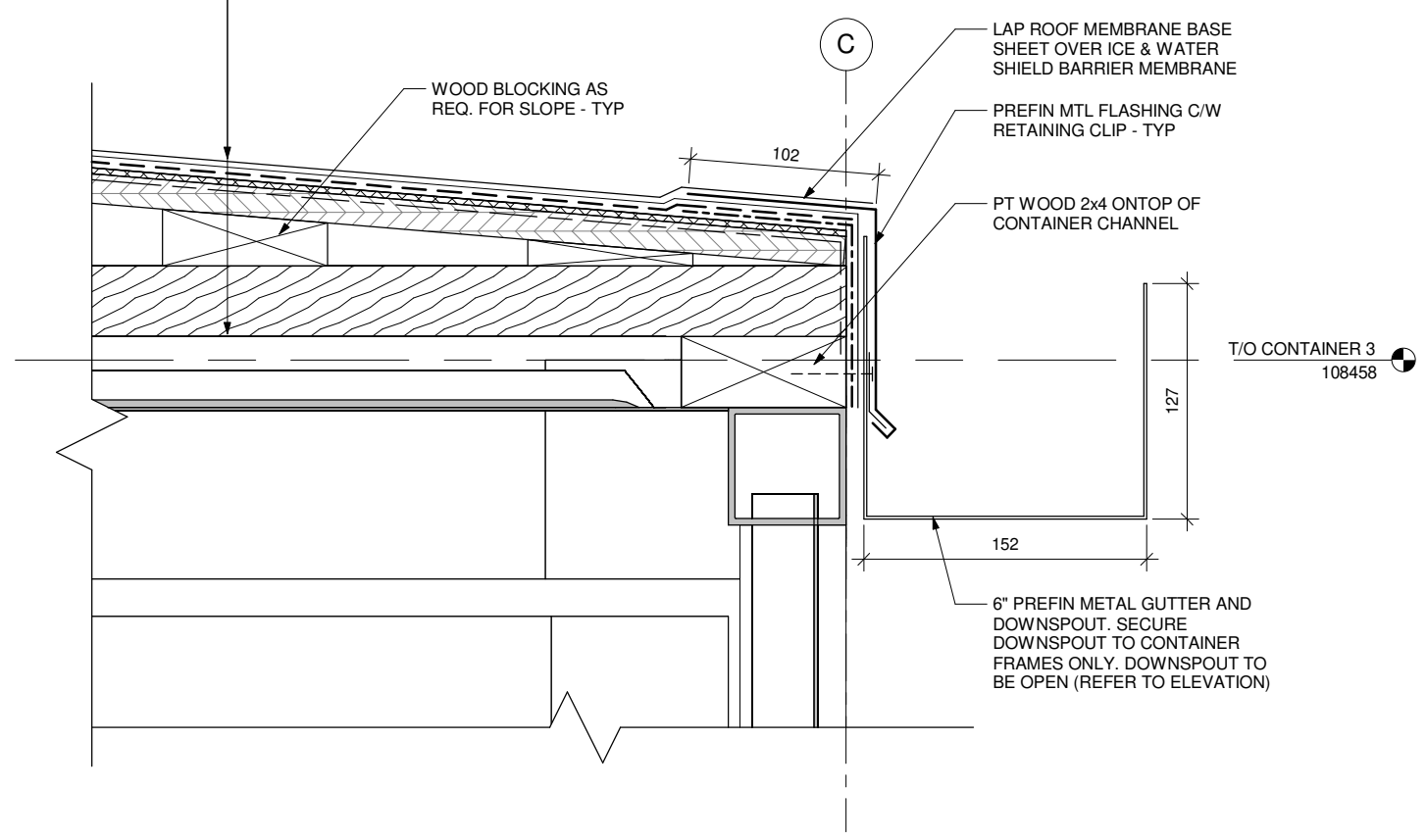
Drawing Title:
SECTION DETAILS

Sheet No:
A554

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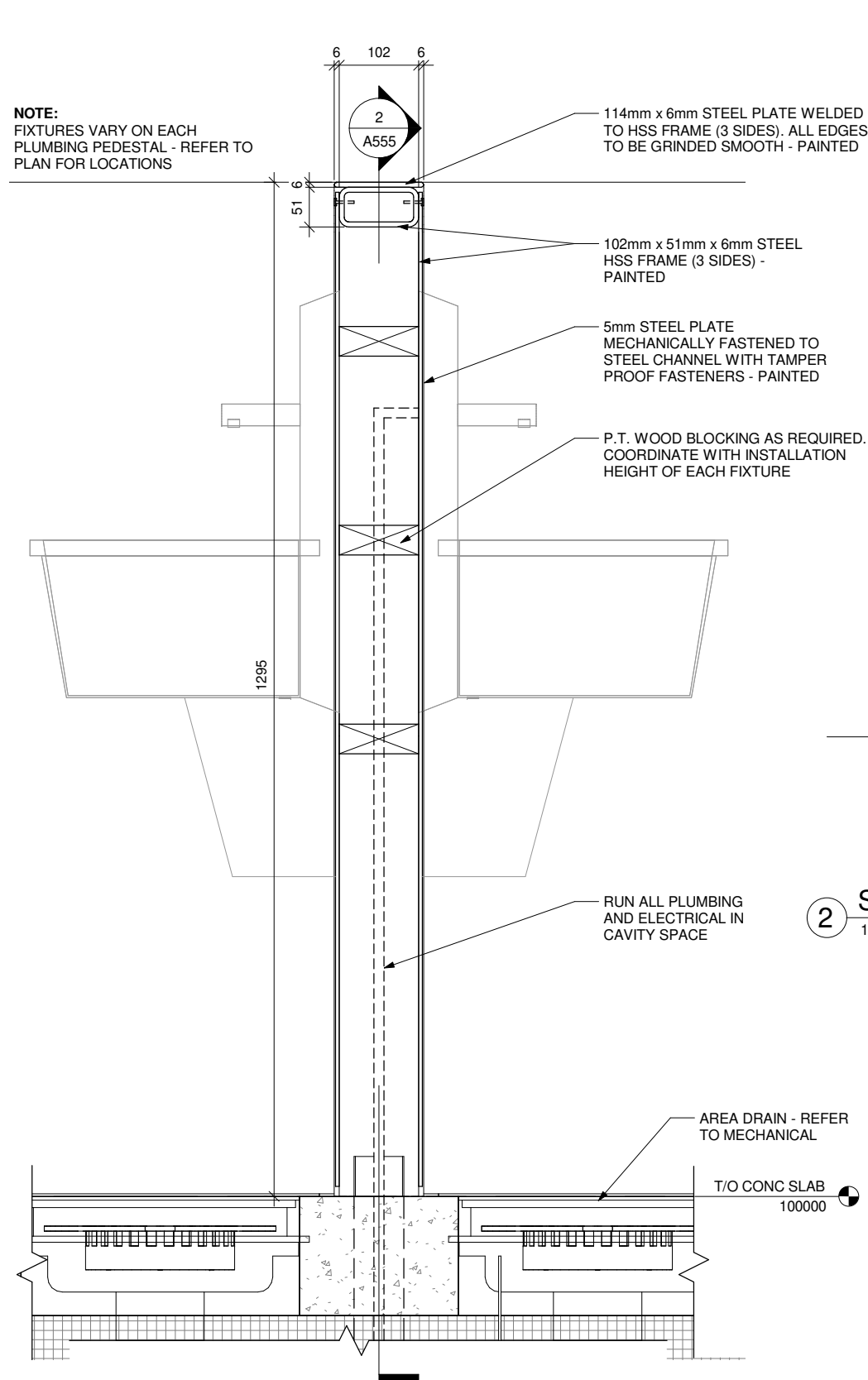
ROOF ASSEMBLY (R1)

- 2-PLY MODIFIED BITUMEN ROOF MEMBRANE
- ICE & WATER SHIELD TO COVER ENTIRE ROOF
- 3mm PROTECTION COVER BOARD
- FULLY ADHERED SBS MODIFIED BITUMEN AIR/VAPOUR BARRIERFULLY ADHERED AIR/VAPOUR BARRIER MEMBRANE
- 16mm PLYWOOD SHEATHING
- P.T. WOOD BLOCKING AS REQUIRED FOR SLOPE (REFER TO STRUCTURAL)
- 89mm P.T. WOOD STUDS ON FLAT @ 406mm O.C. ACROSS TOP OF CONTAINERS

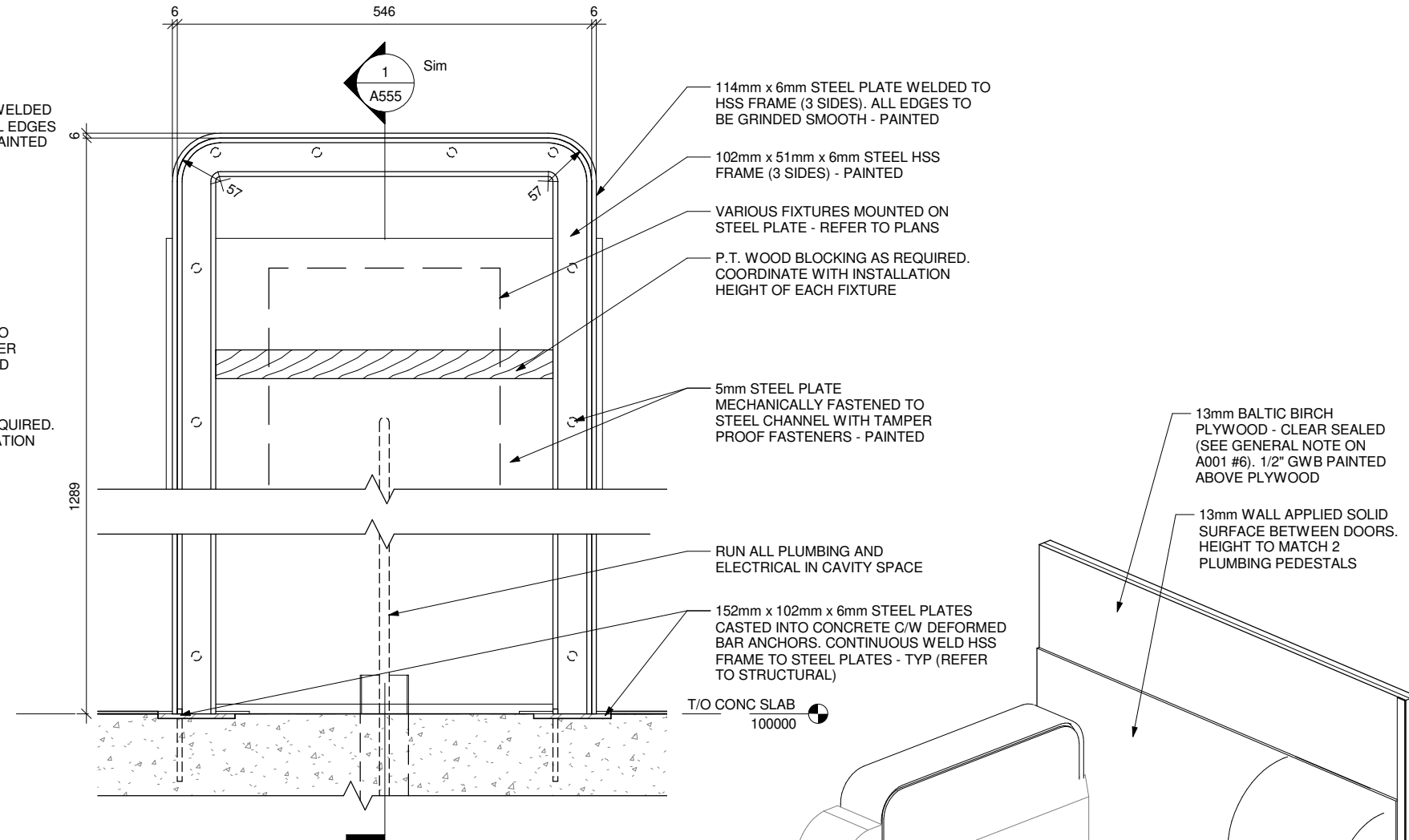


1 SECTION DETAIL - ROOF @ SOUTH ELEV GUTTER
1:4

NOTE:
FIXTURES VARY ON EACH
PLUMBING PEDESTAL - REFER TO
PLAN FOR LOCATIONS



1 SECTION DETAIL - TYPICAL PLUMBING PEDESTAL - A
1:8



2 SECTION DETAIL - TYPICAL PLUMBING PEDESTAL 2
1:8

114mm x 6mm STEEL PLATE WELDED TO
HSS FRAME (3 SIDES). ALL EDGES TO
BE GRINDED SMOOTH - PAINTED

VARIOUS FIXTURES MOUNTED ON
STEEL PLATE - REFER TO PLANS

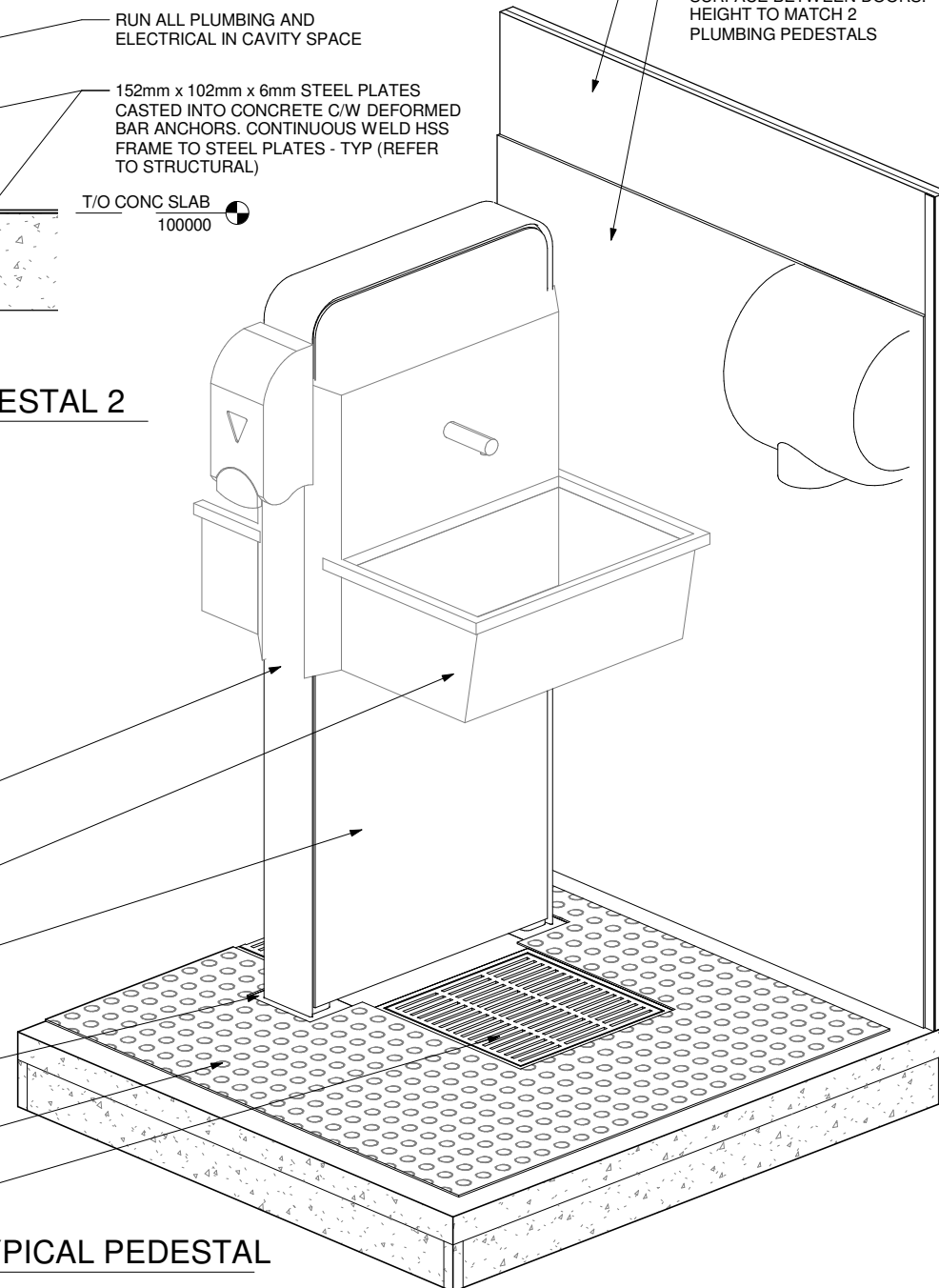
5mm STEEL PLATE MECHANICALLY
FASTENED TO STEEL CHANNEL WITH
TAMPER PROOF FASTENERS - PAINTED

152mm x 102mm x 6mm STEEL PLATES CASTED
INTO CONCRETE C/W DEFORMED BAR
ANCHORS. CONTINUOUS WELD HSS FRAME TO
STEEL PLATES - TYP (REFER TO STRUCTURAL)

TACTILE WARNING SURFACE AS PER SPEC

AREA DRAIN - REFER TO MECHANICAL

3 3D DETAIL - TYPICAL PEDESTAL



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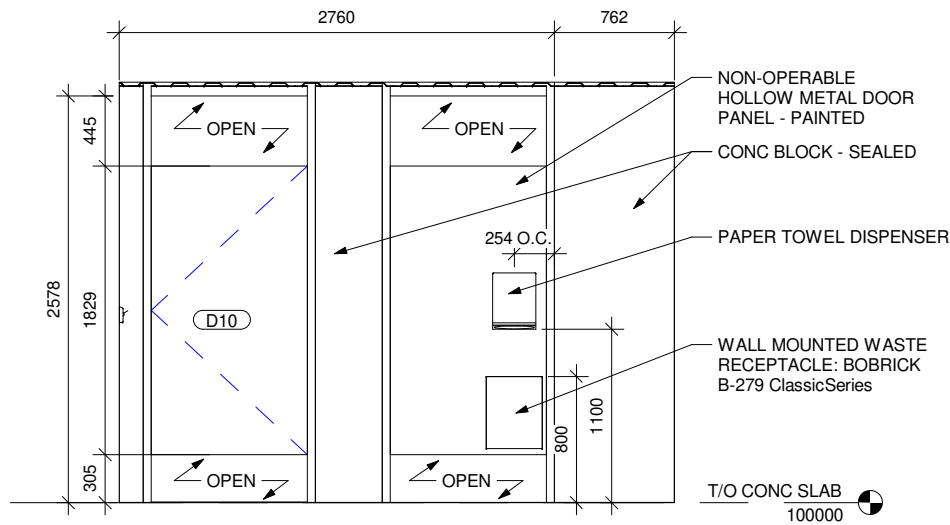


#	Issue/Revision	Date
1	ISSUED FOR CONSTRUCTION	MAR. 3, 2021

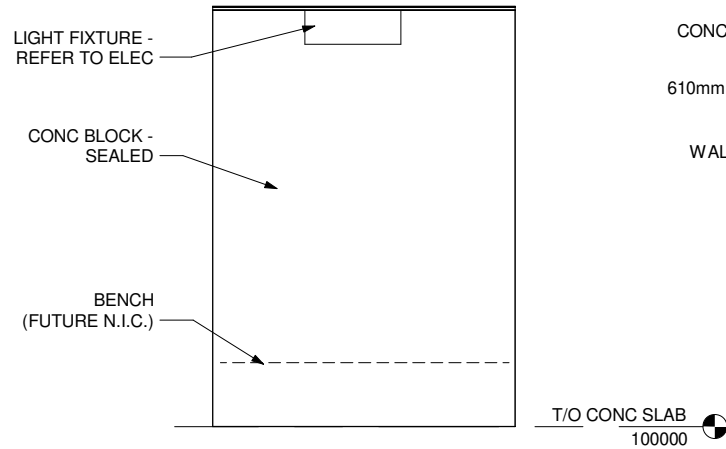
Drawing Title:
PLUMBING PEDESTAL
DETAILS

Sheet No:
A555

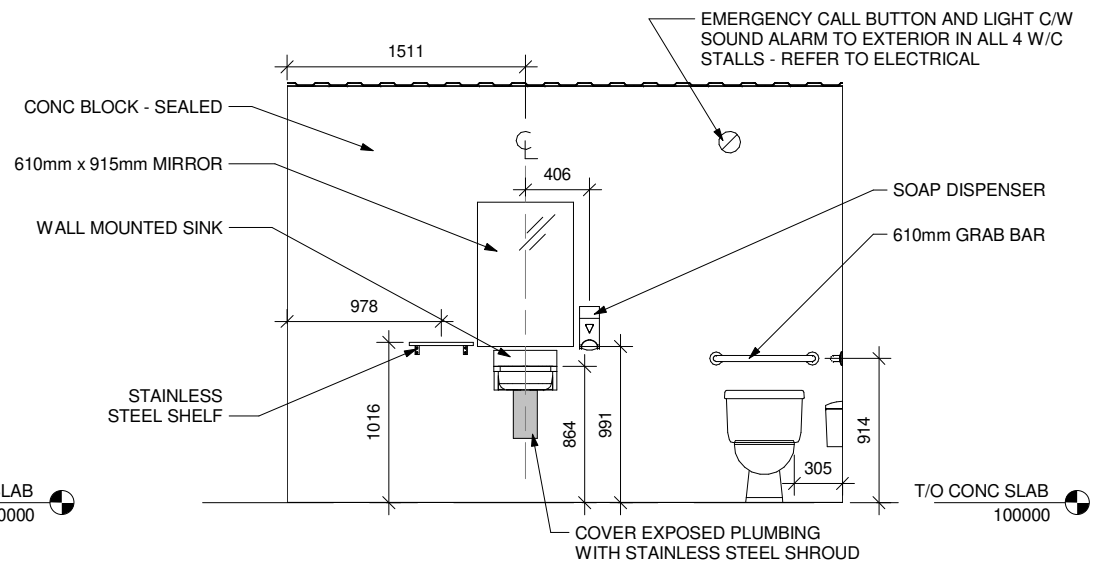
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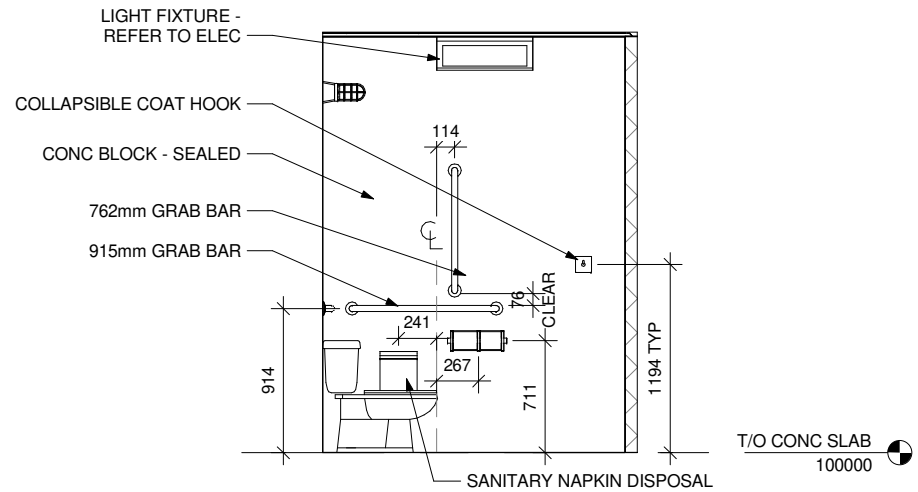
1 ACCESSIBLE W/C - A
1 : 48



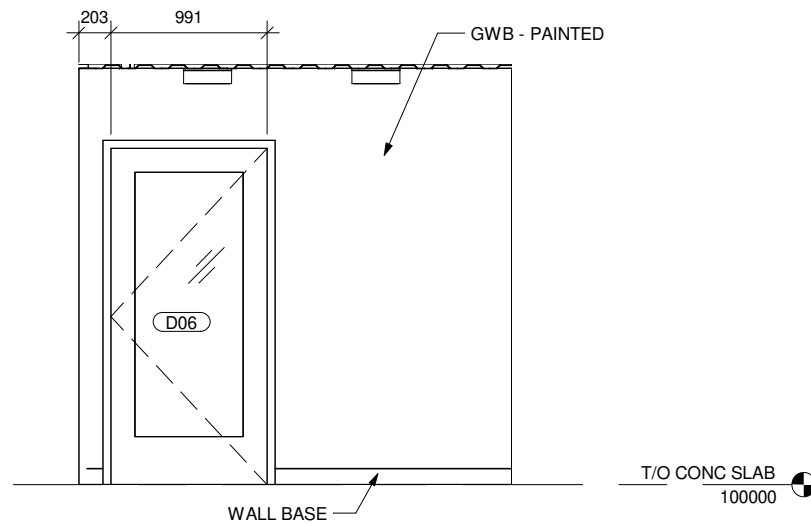
2 ACCESSIBLE W/C - B
1 : 48



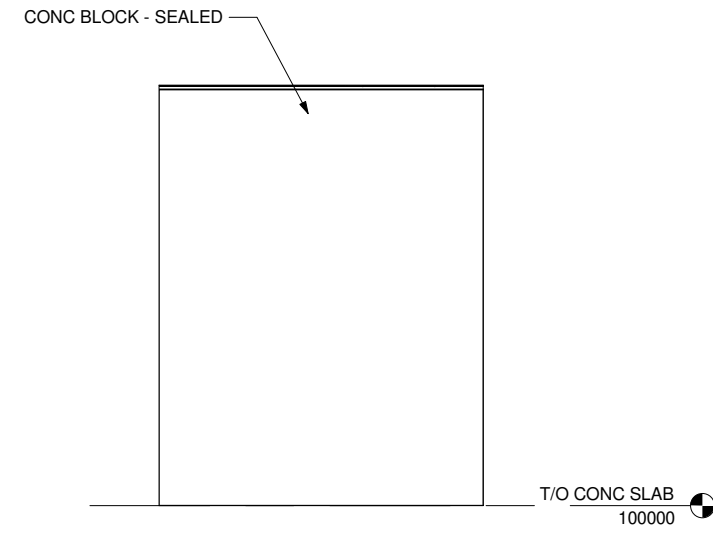
3 ACCESSIBLE W/C - C
1 : 48



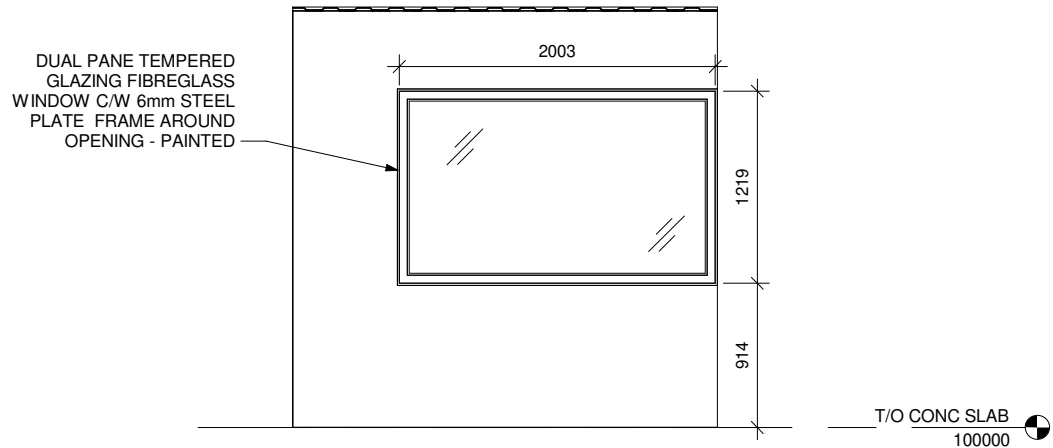
4 ACCESSIBLE W/C - D
1 : 48



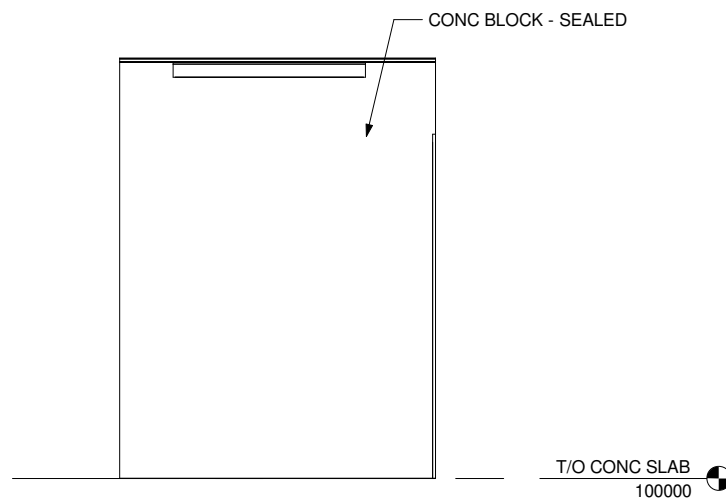
5 OFFICE - A
1 : 48



6 OFFICE - B
1 : 48



7 OFFICE - C
1 : 48



8 OFFICE - D
1 : 48

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#	Issue/Revision	Date
1	ISSUED FOR CONSTRUCTION	MAR. 3, 2021

Drawing Title:
INTERIOR ELEVATIONS

Sheet No:

A701

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DOOR SCHEDULE

DOOR NUMBER	ROOM NAME	HARWARE SET	DOOR TYPE	WIDTH	HEIGHT	THICKNESS	DOOR MATERIAL	DOOR FINISH	DOOR FIRE RATING	INSULATED	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FRAME FIRE RATING	GLAZING TYPE	COMMENTS
D01	SINK AREA	1	DT1	991	2134	51	HOLLOW METAL	PAINTED	N/A	YES	FT1	HOLLOW METAL	PAINTED	N/A	DUAL, TEMPERED, LAMINATED	DOOR ACTUATOR
D02	SINK AREA	1	DT1	991	2134	51	HOLLOW METAL	PAINTED	N/A	YES	FT1	HOLLOW METAL	PAINTED	N/A	DUAL, TEMPERED, LAMINATED	DOOR ACTUATOR
D03	SINK AREA	MANUFAC	DT5	1829	2438	AS PER MFG	ALUMINUM	ANODIZED CLEAR ALUM	N/A	YES		ALUMINUM	ANODIZED CLEAR ALUM	N/A	SINGLE, TEMPERED	VERTICAL GARAGE DOOR
D04	SINK AREA	MANUFAC	DT5	2438	2438	AS PER MFG	ALUMINUM	ANODIZED CLEAR ALUM	N/A	YES		ALUMINUM	ANODIZED CLEAR ALUM	N/A	SINGLE, TEMPERED	VERTICAL GARAGE DOOR
D05	SINK AREA	MANUFAC	DT5	2438	2438	AS PER MFG	ALUMINUM	ANODIZED CLEAR ALUM	N/A	YES		ALUMINUM	ANODIZED CLEAR ALUM	N/A	SINGLE, TEMPERED	VERTICAL GARAGE DOOR
D06	OFFICE	3	DT2	991	2134	44	HOLLOW METAL	PAINTED	N/A	NO	FT1	HOLLOW METAL	PAINTED	N/A	SINGLE PANE TEMPERED, LAMINATE	
D07	STOR / JAN	3	DT3	991	2134	44	HOLLOW METAL	PAINTED	N/A	NO	FT1	HOLLOW METAL	PAINTED	N/A	N/A	
D08	W/C	4	DT4	813	1829	44	HOLLOW METAL	PAINTED	N/A	NO	FT2	HOLLOW METAL	PAINTED	N/A	N/A	BOTTOM OF DOOR @ 1'-0" AFF
D09	W/C	4	DT4	813	1829	44	HOLLOW METAL	PAINTED	N/A	NO	FT2	HOLLOW METAL	PAINTED	N/A	N/A	BOTTOM OF DOOR @ 1'-0" AFF
D10	ACCESS W/C	4	DT4	991	1829	44	HOLLOW METAL	PAINTED	N/A	NO	FT2	HOLLOW METAL	PAINTED	N/A	N/A	BOTTOM OF DOOR @ 1'-0" AFF

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Bid Opportunity Number: 54-2021

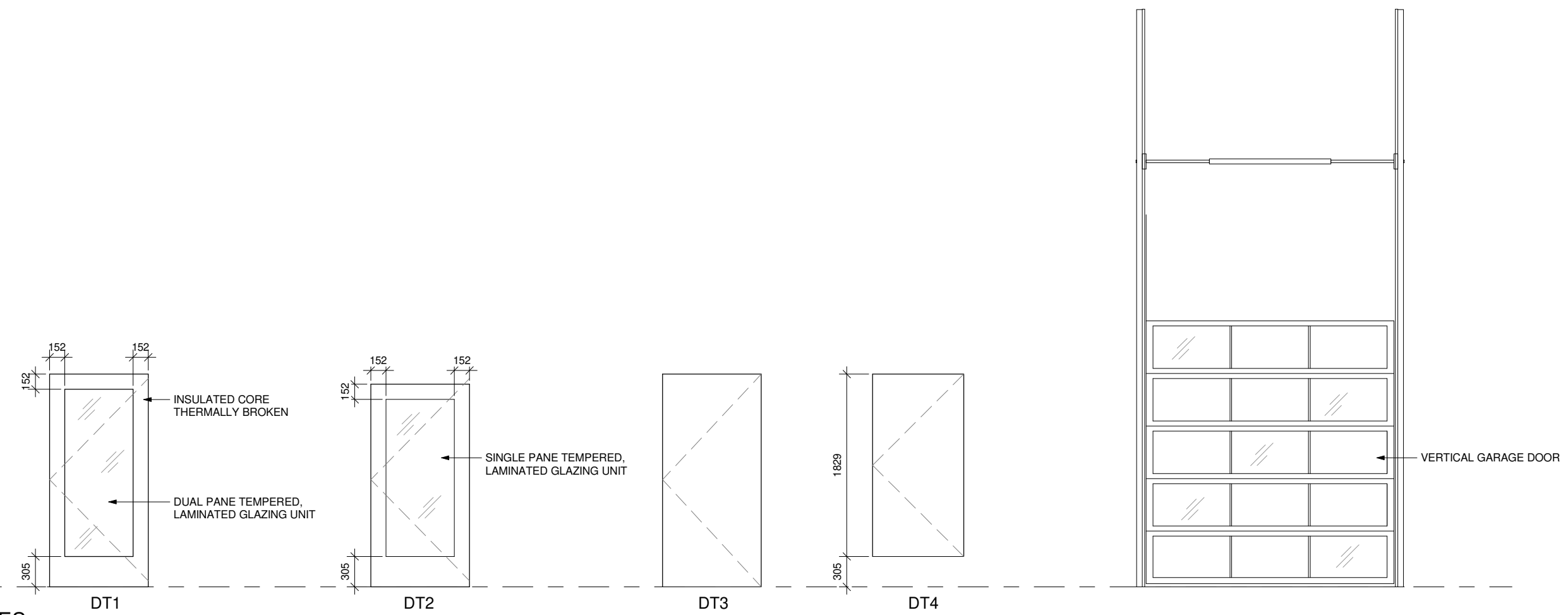


#	Issue/Revision	Date
1	ISSUED FOR CONSTRUCTION	MAR. 3, 2021

Drawing Title:
DOOR SCHEDULE

Sheet No:
A901

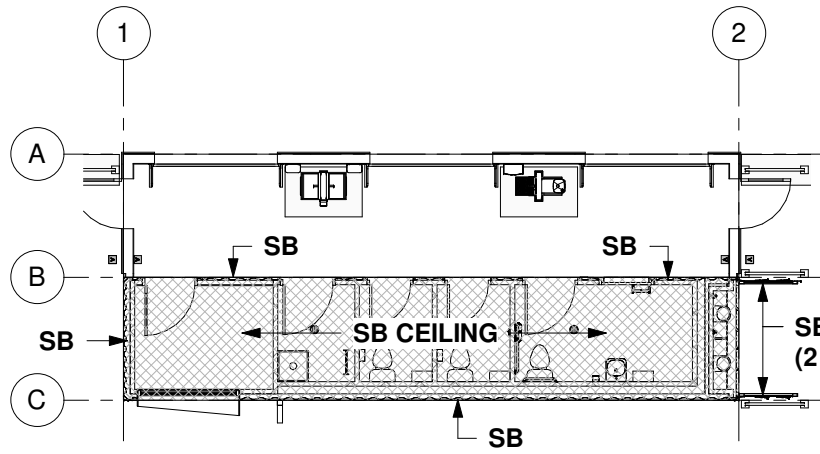
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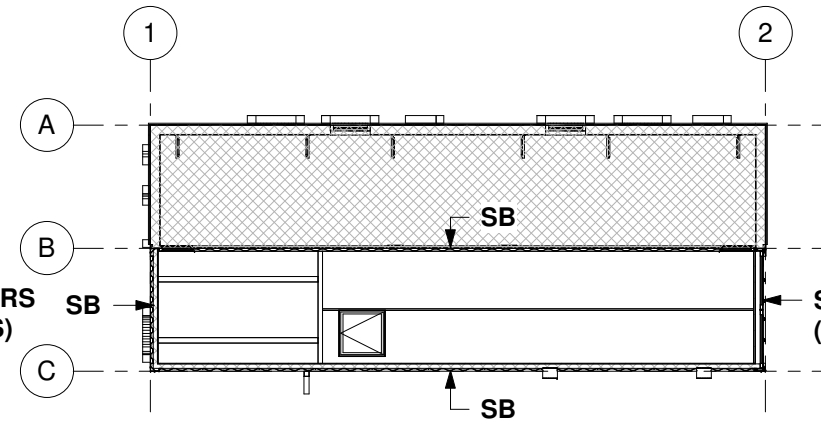
DOOR TYPES
1 : 48

DOOR FRAME TYPES
1 : 48

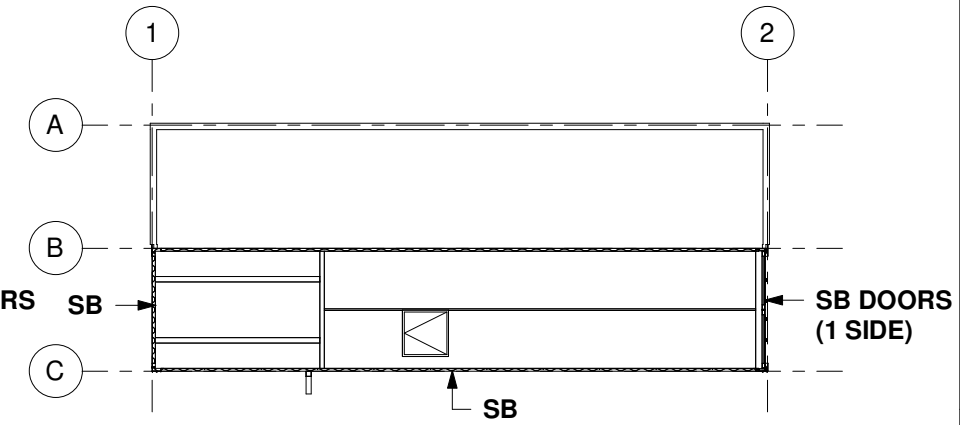
FIN. FLOOR LINE



1 SANDBLASTING PLAN - 1ST CONTAINER LEVEL
1:150

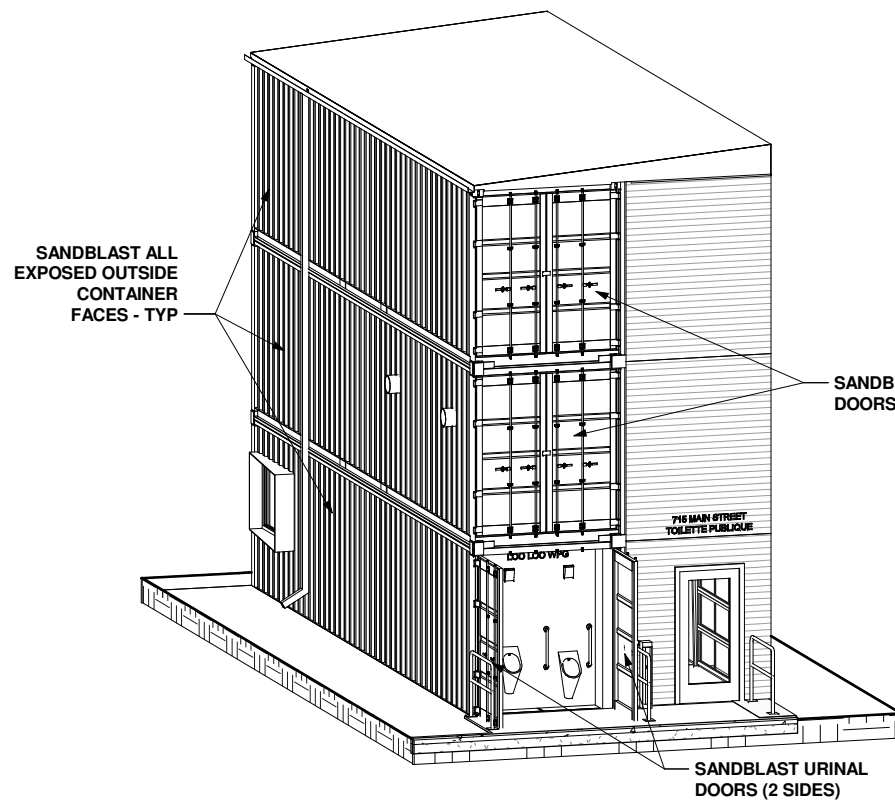


2 SANDBLASTING PLAN - 2ND CONTAINER LEVEL
1:150

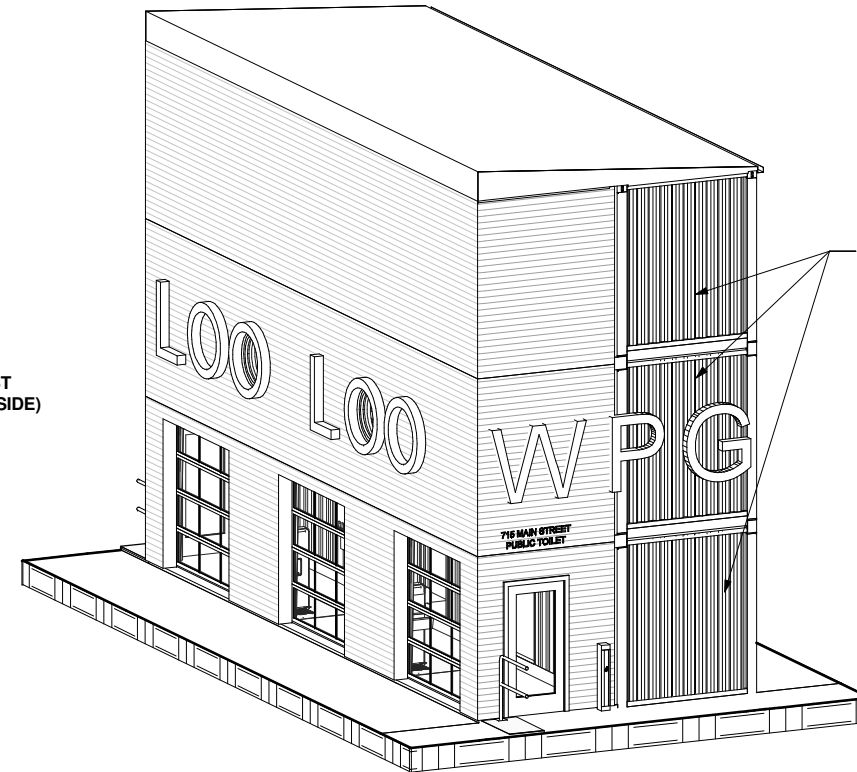


3 SANDBLASTING PLAN - 3RD CONTAINER LEVEL
1:150

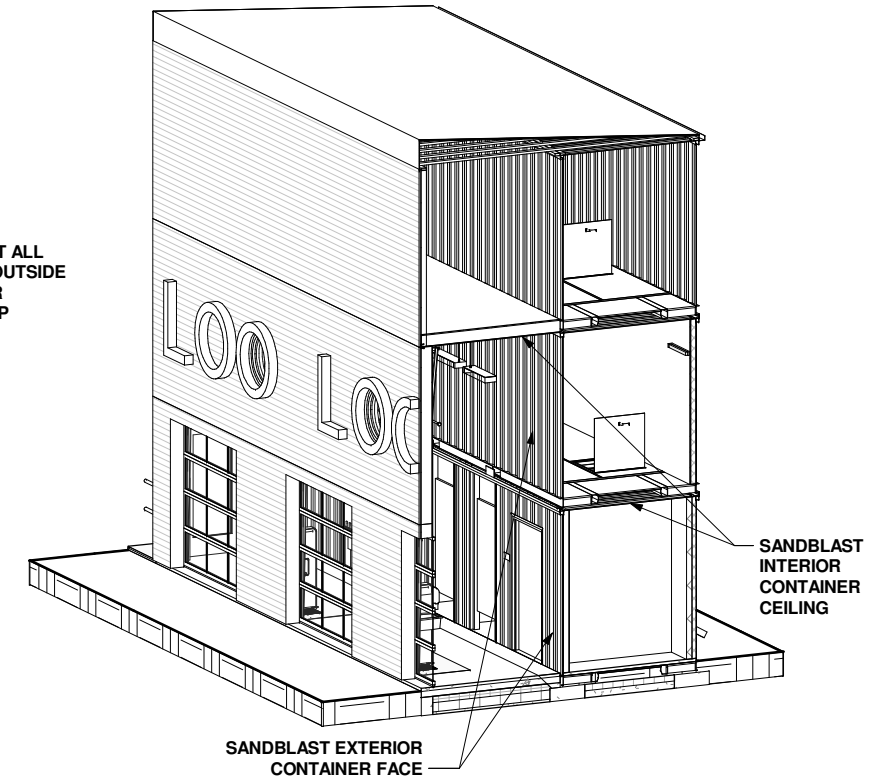
GENERAL NOTE:
ALL SANDBLASTING TO BE DONE BY OTHERS - TYP



4 3D - CONTAINER SANDBLASTING EXTERIOR 1



5 3D - CONTAINER SANDBLASTING EXTERIOR 2



6 3D - CONTAINER SANDBLASTING INTERIOR

Project:
715 MAIN STREET
PUBLIC TOILET

715 Main Street, Winnipeg, MB

Project Number: 2022
Bid Opportunity Number: 54-2021



#	Issue/Revision	Date
1	ISSUED FOR CONSTRUCTION	MAR. 3, 2021

Drawing Title:
SANDBLASTING
CONTAINERS (BY
OTHERS)

Sheet No:

A902

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1. CIVIC ADDRESS:

LOO LOO WINNIPEG
715 MAIN ST., WINNIPEG, MB

2. DRAWING INDEX:

- E01.0 – TITLE SHEET
- E01.1 – SITE PLAN
- E02.1 – MAIN LEVEL – POWER LAYOUT
- E02.2 – MAIN LEVEL – LIGHTING LAYOUT
- E02.3 – MAIN LEVEL – LOW VOLTAGE SYSTEMS
- E03.1 – SECOND LEVEL – POWER LAYOUT
- E03.2 – SECOND LEVEL – LIGHTING LAYOUT
- E06.0 – SINGLE LINE DIAGRAM & SCHEDULES
- E08.1 – INSTALLATION SPECIFICATIONS – PART 1
- E08.2 – INSTALLATION SPECIFICATIONS – PART 2

3. WARNING:

THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE LATEST ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL, AND LANDSCAPE DRAWINGS.

BEFORE ROUGH-IN WIRING, REFER TO ARCHITECTURAL DRAWING FOR EXACT LAYOUT, DIMENSIONS AND ELEVATIONS.

ANY CHANGES TO DRAWINGS SHALL BE IN WRITING & AUTHORIZED BY THE CONTRACT ADMINISTRATOR.

ELECTRICAL CONTRACTOR TO SUPPLY & INSTALL ELECTRICAL EQUIPMENT NOTED ON PLANS FOR A WORKING SYSTEM UNLESS OTHERWISE NOTED.

DO NOT SCALE OFF DRAWINGS.

4. ELECTRICAL CONTRACTOR TENDER NOTES

4.1. EQUIPMENT:

- 4.1.1. ALL WORK MUST SATISFY THE REQUIREMENTS OF THE CURRENT THE WINNIPEG ELECTRICAL BYLAW, MANITOBA BUILDING CODE, AND ALL AUTHORITIES HAVING JURISDICTION.
- 4.1.2. THE ELECTRICAL CONTRACTOR SHALL NOT UNDER ANY INSTANCE REDUCE THE STANDARD ESTABLISHED BY THE CONTRACT DOCUMENTS BY ANY OF THESE CODES OR REGULATIONS REFERRED TO IN (3).
- 4.1.3. ANY PROPOSED RELOCATION(S) BY THE ELECTRICAL CONTRACTOR OF ELECTRICAL EQUIPMENT AND OTHER EQUIPMENT THAT REQUIRES ELECTRICAL POWER/CONNECTIONS (FROM THAT SHOWN ON THE DRAWINGS) MUST BE APPROVED BY THE CONTRACT ADMINISTRATOR/CLIENT IN WRITING.

4.2. DOCUMENTS:

- 4.2.1. CONTRACTORS PRICING/TENDERING MUST OBTAIN A COMPLETE SET OF CURRENT DOCUMENTS INCLUDING ARCHITECTURAL, MECHANICAL, PLUMBING, SPRINKLER, STRUCTURAL, SURVEY AND ALL OTHER DRAWINGS/SPECIFICATIONS FOR THIS PROJECT.
- 4.2.2. CERTAIN INFORMATION REQUIRED TO PROPERLY PRICE WORK INDICATED ON THE ELECTRICAL DRAWINGS MAY BE FOUND IN OTHER CONSULTANTS DRAWINGS.

5. UTILITY:

POWER/TELEPHONE/CABLEVISION INCOMING SERVICE (LOCATION OF EQUIPMENT/DUCT ROUTING) INFORMATION TO BE CONFIRMED. (INFORMATION SHOWN IS TO FACILITATE DISCUSSION WITH AUTHORITY ON PROPOSED SERVICE ENTRY PREFERRED LOCATION AND ARE FOR THAT PURPOSE ONLY).

6. NOTES:

6.1. UTILITIES:

- 6.1.1. ALL UNDERGROUND UTILITY SLEEVES/DUCTS ARE TO BE INSTALLED AS PER CEC 12-012, ELECTRICAL & COMMUNICATION UNDERGROUND INSTALLATION TO RUN IN JOINT TRENCH WHERE POSSIBLE TO THE BUILDING. BENDS MUST BE OF MINIMUM BEND RADIUS OF 36".
- 6.1.2. ELECTRICAL CONTRACTOR MUST CO-ORDINATE ROUTING AND INSTALLATION OF ALL UNDERGROUND DUCTS WITH:
 - 6.1.2.1. UTILITIES (HYDRO, TELEPHONE, GAS, CABLE) REGARDING EXACT ROUTING, DEPTH OF BURIAL AND OTHER REQUIREMENTS.
 - 6.1.2.2. MECHANICAL AND GENERAL CONTRACTOR REGARDING INTERFERENCE WITH STORM SEWER, SANITARY SEWER, GAS LINES, CATCHBASINS, AND SIMILAR UNDERGROUND SITE/CITY SERVICES.
- 6.1.3. SEAL THE DUCTS FROM UTILITY SIDE TO PREVENT WATER ACCUMULATION IN DUCTS. IF THAT CANNOT BE ENSURED, PROVIDE SERVICE DUCTS WITH A DRAIN CONNECTION BEFORE ENTRY TO THE BUILDING. THIS DRAIN IS INTENDED FOR RELIEF OF INCIDENTAL WATER ENTERING THE DUCT. THE DRAIN MUST NOT BE USED TO HANDLE ANY FORM OF AREA DRAINAGE.
- 6.1.4. ALL SERVICE DUCTS MUST BE SEALED AT POINT OF ENTRY INTO BUILDING THROUGH WALLS. THE SEAL SHALL PREVENT WATER ENTRY INTO THE BUILDING THROUGH THE WALL PENETRATION AND IN ADDITION, THE INSIDE OF THE DUCTS (WHERE POSSIBLE) MUST ALSO BE SEALED AGAINST WATER ENTRY. ENSURE WATERPROOF MATERIAL DOES NOT OBSTRUCT DUCT DRAIN WHEN PROVIDED.
- 6.1.5. WHEN INSTALLED OUTDOORS, ARC PRODUCING ELECTRICAL EQUIPMENT/POWER METER SHALL NOT BE INSTALLED WITHIN 1 METER OF THE COMBUSTIBLE GAS METER, GAS RELIEF DEVICE OR VENT.
- 6.1.6. CO-ORDINATE WITH THE GENERAL CONTRACTOR, HYDRO, ELECTRICAL INSPECTOR AND WITH ALL AUTHORITIES HAVING THE JURISDICTION FOR THE FOLLOWING:
 - 6.1.6.1. MECHANICAL PROTECTION (STEEL PROTECTION) POSTS AND REQUIREMENTS OF POSTS PER UTILITY AND CODE.

6.1.6.2. MECHANICAL PROTECTION POSTS TO BE PROVIDED (SUPPLY/INSTALLATION) BY THE GENERAL CONTRACTOR.

6.1.6.3. PROTECTION OF EXISTING TREES/SHRUBS: ELECTRICAL CONTRACTOR MUST CO-ORDINATE ROUTING OF ALL UNDERGROUND DUCTS AND ALL UNDERGROUND WIRING WITH ARCHITECT SITE-SUPERVISOR AND LANDSCAPE ARCHITECT TO PROTECT AND MAINTAIN EXISTING TREES AND SHRUBS AS INDICATED ON LANDSCAPE AND ARCHITECTURAL DRAWINGS.

6.2. OUTDOOR LIGHTS:

- 6.2.1. THE OUTDOOR LIGHTS (LANDSCAPE, BUILDING PERIMETER, ROADWAY, ETC.) SHALL BE CONTROLLED BY PHOTOCELL AND TIME CLOCK, VIA CONTACTOR(S).
- 6.2.2. REFER TO DRAWINGS FOR LIGHTING LAYOUT AND LUMINAIRE SCHEDULE.

6.2. CAUTION: ALL OTHER SUBCONSULTANTS/TRADES – ELECTRICAL ROOM:

- 6.3. NO LAVATORIES, BATH TUBS, ETC. ON FLOOR AREA ABOVE THE ELECTRICAL ROOM.
- 6.4. IF EQUIPMENT ABOVE HAVE TO BE LOCATED ABOVE TO ELECTRICAL ROOM DUE TO FLOOR AREA LIMITATION, PROVIDE ADEQUATE PROTECTION TO ELECTRICAL EQUIPMENT TO PREVENT LEAKED WATER, CONDENSATION WATER, AND ANY OTHER FORM OF WATER FROM ACCIDENTAL AND SUDDEN DISCHARGE ON ELECTRICAL REQUIREMENT.

ABBREVIATIONS	
FFL	FINISH FLOOR LEVEL
AFF	ABOVE FINISH FLOOR
FGL	FINISH GRADE LEVEL
MOUNTING HEIGHTS	TO UNDERSIDE OF THE ROUGH-IN OF THE SAID INSTALLATION
NL	NIGHT LIGHT
FF	FORCE FLOW UNIT
U/G	UNDER GROUND
WP	WEATHER PROOF

VERIFY SHEET SIZE. BAR TO THE RIGHT IS 1" IF THIS IS A FULL SIZE DRAWING.

LEGEND	
	DOOR ASSISTS ACTIVATOR PUSH BUTTON
NL	NIGHT LIGHT
	SINGLE POLE SWITCH (3 DENOTE 3 WAY SWITCH, D DENOTE DIMMER, OS DENOTE OCCUPANCY SENSOR)
	DUPLEX RECEPTACLE-C DENOTES UNDER COUNTER, M DENOTES MICROWAVE DESIGNATED, F DENOTES FLOOR, IPLC DENOTES IPLC BLOCK HEATER CONTROLLER, GFI GROUND FAULT CIRCUIT INTERRUPTER, C CEILING MOUNTED, M FOR MICROWAVE, ARC FOR ARC FAULT, S SURFACE MOUNTED
	208/240V RECEPTACLE – CONFIGURATION BY AMPERAGE
	QUAD RECEPTACLE
	JUNCTION BOX – CEILING/WALL

	STROBE/HORN UNIT – FIRE ALARM SYSTEM (1 DENOTE TYPE, C DENOTE CEILING MOUNTED)
	STROBE UNIT (1 DENOTE TYPE, C DENOTE CEILING MOUNTED)
	PULL STATION – FIRE ALARM SYSTEM
	RELAY MODULE – FIRE ALARM SYSTEM
	MONITOR MODULE – FIRE ALARM SYSTEM
	CARBON MONOXIDE DETECTOR – FIRE ALARM SYSTEM
	SMOKE DETECTOR
	SMOKE DETECTOR – DUCT MOUNTED
	HEAT DETECTOR – (D DENOTES DUCT MOUNTED, MP DENOTES MOISTURE PROOF)
	CARBON MONOXIDE ALARM – CONNECTED TO 120V NON-SWITCHED CIRCUIT C/W BATTERY BACKUP
	HORN UNIT – FIRE ALARM SYSTEM (1 DENOTE TYPE, C DENOTE CEILING MOUNTED)

	VOICE / DATA OUTLET
	TV/CABLE OUTLET
	POWER PANELBOARD – FLUSH MOUNT/SURFACE MOUNT
	COMMUNICATION BOARD
	HARDWIRED CONNECTION
	MOTOR CONNECTION
	DISCONNECT SWITCH–NUMBER OF POLES PER CIRCUIT DESIGNATION

	BATTERY PACK C/W EMERGENCY LIGHTS
	EMERGENCY LIGHTS – DUAL HEADS
	EMERGENCY LIGHT AND EXIT COMBO – ARROWS AS REQUIRED
	EMERGENCY EXIT SIGN

	FIRE ALARM PANEL
	FIRE ALARM ANNUNCIATION PANEL

EMT ROUTING & GENERAL INSTALLATION REQUIREMENTS

- 1 ELECTRICAL CONTRACTOR TO SUPPLY & INSTALL EMT CONDUITS ALL EMT & ELECTRICAL INSTALLATIONS FROM OFFICE & SECOND LEVEL AREAS DESTINED TO SINK AREA TO BE ROUTED THROUGH THIRD LEVEL CONTAINER/WOOD. NO HORIZONTAL EMT CONDUITS ALLOWED TO BE ROUTED IN CEILING OF SINK AREA.
- 2 ELECTRICAL CONTRACTOR TO ARRANGE & CARRY ALL COSTS INVOLVED TO DRILL, WELD, RECTIFY, REPAIR, SUPPORT, SECURE, & PAINT TO ARCHITECTURAL SPECIFICATIONS' CONDITION OF FINISH ALL PENETRATIONS REQUIRED FOR EMT CONDUITS. ROUGH EDGES SHALL BE SMOOTHED, DEBURRD, & SEALED WITH PRINTABLE SEALANT AS REQUIRED BY ARCHITECTURAL SPECIFICATIONS.
- 3 USE STAINLESS STEEL OR GALVANIZED FASTENERS TO SECURE EMT CONDUIT'S SUPPORTS & ELECTRICAL ITEMS, & PARTS TO CONTAINERS' STEEL SURFACES. USE SELF-TAPPING SCREWS FOR ITEMS ABOVE 7', USE BOLT & STAINLESS STEEL NUTS WITH NYLON INSERTS COMBINATIONS FOR ITEMS BELOW 7'. SELF-TAPPING SCREWS SHALL NOT PROTRUDE MORE THAN 1/4" BEYOND EXTERIOR OF CONTAINER'S WALLS. TORQUE PER CODE.

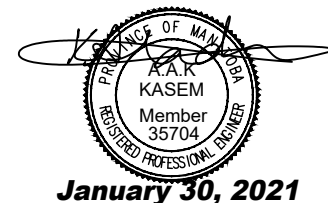
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A	ISSUED FOR REVIEW	AK	AK	21 01 21
ISSUED		BY	APPR.	DATE

SEAL:

APEGM
Certificate of Authorization
Ibasa Enterprises Inc.
No. 5474 Expiry: April 30, 2021



CLIENT: BRIDGMAN COLLABORATIVE ARCHITECTURE
678 MAIN STREET
WINNIPEG, MB R3B 1E4
(204)488-3857

PROJECT TITLE: LOO LOO WINNIPEG
715 MAIN ST., WINNIPEG, MB
BID OPPORTUNITY 54-2021

SHEET TITLE: TITLE SHEET

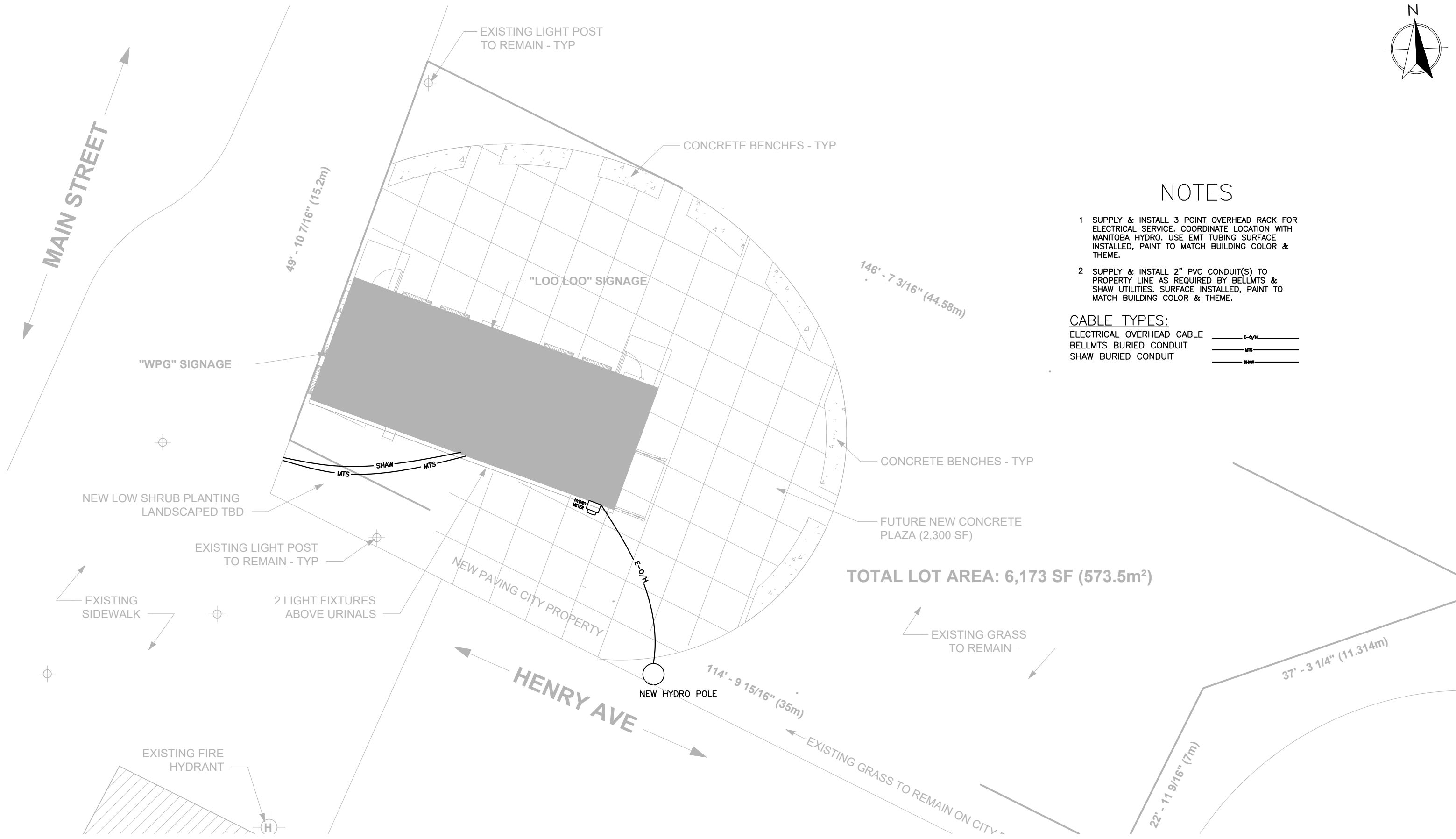
PROJECT NO: 201231

SCALE: NTS

DESIGNED BY: AK
DRAWN BY: AK
REVIEWED BY: AK

SHEET NO:

E01



NOTES

- 1 SUPPLY & INSTALL 3 POINT OVERHEAD RACK FOR ELECTRICAL SERVICE. COORDINATE LOCATION WITH MANITOBA HYDRO. USE EMT TUBING SURFACE INSTALLED, PAINT TO MATCH BUILDING COLOR & THEME.
- 2 SUPPLY & INSTALL 2" PVC CONDUIT(S) TO PROPERTY LINE AS REQUIRED BY BELLMTS & SHAW UTILITIES. SURFACE INSTALLED, PAINT TO MATCH BUILDING COLOR & THEME.

CABLE TYPES:

ELECTRICAL OVERHEAD CABLE	— E-O/H —
BELLMTS BURIED CONDUIT	— MTS —
SHAW BURIED CONDUIT	— SHAW —

TOTAL LOT AREA: 6,173 SF (573.5m²)

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January 30, 2021

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678 MAIN STREET
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PROJECT TITLE: LOO LOO WINNIPEG
715 MAIN ST., WINNIPEG, MB
BID OPPORTUNITY 54-2021

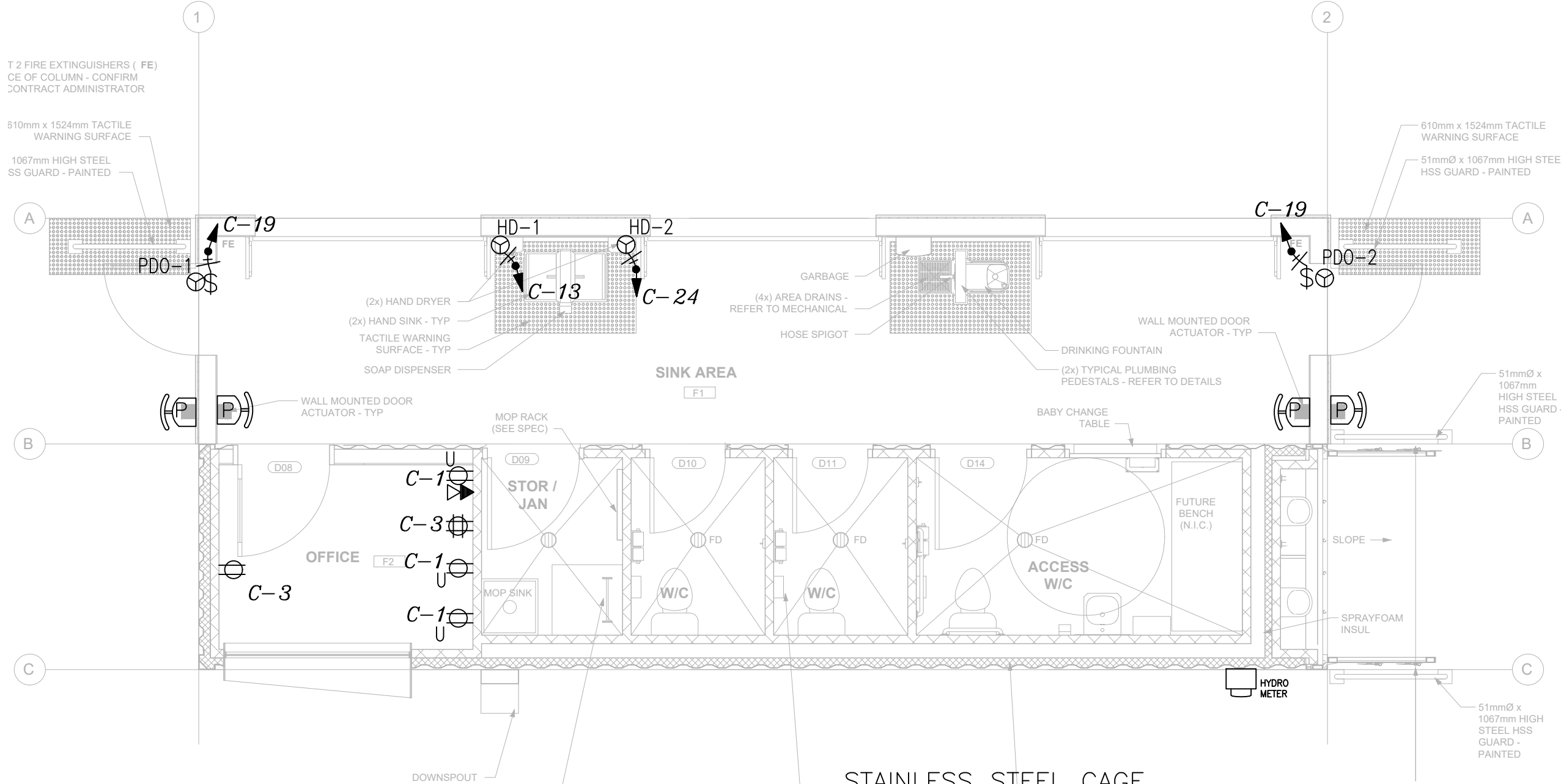
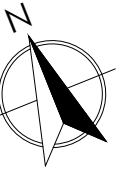
SHEET TITLE: SITE PLAN

PROJECT NO: 201231

SCALE: 3/32"=1'-0"

DESIGNED BY: AK
DRAWN BY: AK
REVIEWED BY: AK

SHEET NO:
E01.1



GENERAL NOTES

- 1 ELECTRICAL CONTRACTOR TO REFER TO ARCHITECTURAL DRAWINGS & MILLWORK LAYOUTS FOR COORDINATION OF LOCATION OF RECEPTACLES & OUTLETS.
- 2 SUPPLY & INSTALL PHONE & DATA OUTLET BOXES C/W CONDUITS & PULL ROPES FROM OUTLETS TO COMMUNICATION BOARD NEXT TO PANEL P-C. LABEL EACH END OF THE PULL ROPE FOR IDENTIFICATION.
- 3 INTERLOCK EMERGENCY LIGHTING WITH LIGHT CIRCUIT IN AREA OF SERVICE.
- 4 ELECTRICAL CONTRACTOR TO COORDINATE WITH COMMUNICATION SUPPLIER FOR INSTALLATION OF COMMUNICATION BOARD AS SPECIFIED. SUPPLY & INSTALL GROUND WIRE AS REQUIRED.
- 5 ELECTRICAL CONTRACTOR TO INSTALL ELECTRICAL CONTROL EQUIPMENT FOR MECHANICAL EQUIPMENT. PROVIDE CONTROL WIRING, & ELECTRICAL SERVICE TO MECHANICAL EQUIPMENT.
- 6 MAINTAIN 1.0 METER IN FRONT OF ELECTRICAL EQUIPMENT. COORDINATE WITH OTHER TRADES ON SITE.
- 7 SUPPLY & INSTALL STAINLESS STEEL COVER PLATES IN PUBLIC AREAS OF THE BUILDING C/W STAINLESS STEEL SECURITY HARDWARE.
- 8 SUPPLY & INSTALL STAINLESS STEEL SECURITY HARDWARE FOR ALL CAGES.
- 9 SUPPLY & INSTALL EXPOSED ELECTRICAL TO BE IN EMT. PAINT ALL EMT ELECTRICAL INSTALLATION TO MATCH EXISTING FINISH & COLOR SPECIFIED ON ARCHITECTURAL DRAWINGS.
- 10 SUPPLY & INSTALL GROUND BONDING CONDUCTOR TO SOLIDLY CONNECT EACH CONTAINER IN THE BUILDING TO ELECTRICAL GROUND SYSTEM IN THE BUILDING USE #6 AWG -GREEN INSULATED GROUND CONDUCTORS INSTALLED IN EMT TURING CONNECTED TO A STEEL BOLT WELDED IN EACH CONTAINER LOCATED IN A VISIBLE PLACE. SUPPLY & INSTALL WALL MOUNTED LAMACOID LABELS TO IDENTIFY EACH GROUND POINT WITH 2' OF THE BOLT.

STAINLESS STEEL CAGE SPECIFICATIONS

- 1 ELECTRICAL CONTRACTOR TO SUPPLY & INSTALL CUSTOM MADE STAINLESS STEEL CAGES MADE OF 304 GRADE, WITH 1" SQUARE SHAPED OPENINGS OF MATT WIRE SIZE OF 10 GAUGE, SUPPORT WIRE (IF REQUIRED) OF 6 GAUGE. PROVIDE 8 MOUNTING POINTS FOR WG-1 & 4 MOUNTING POINTS FOR WG-2 & WG-3 C/W SECURITY STAINLESS STEEL HARDWARE. CAGE TO BE DESIGNED TO SET 1/2" GAP BETWEEN CAGE WIRES & PROTECTED LIGHT FIXTURE. PROVIDE SHOP DRAWINGS FOR CONTRACT ADMINISTRATOR'S REVIEW PRIOR TO PLACING ORDER. WHEN CAGES ARE INSTALLED IN FINAL LOCATION, CAGES SHALL NOT DEFORM IN ANY SHAPE WHEN LOADED AT ONE SINGLE POINT OF THE CAGE WITH STATIC LOAD OF 100LBS. CARRY ALL TESTING AS REQUIRED. ARRANGE & CARRY COST FOR SUPPORTS, BLOCKING, RECEIVERS, RECEPTACLES, NUTS, & THREADS TO INSTALL CAGES AS REQUIRED.

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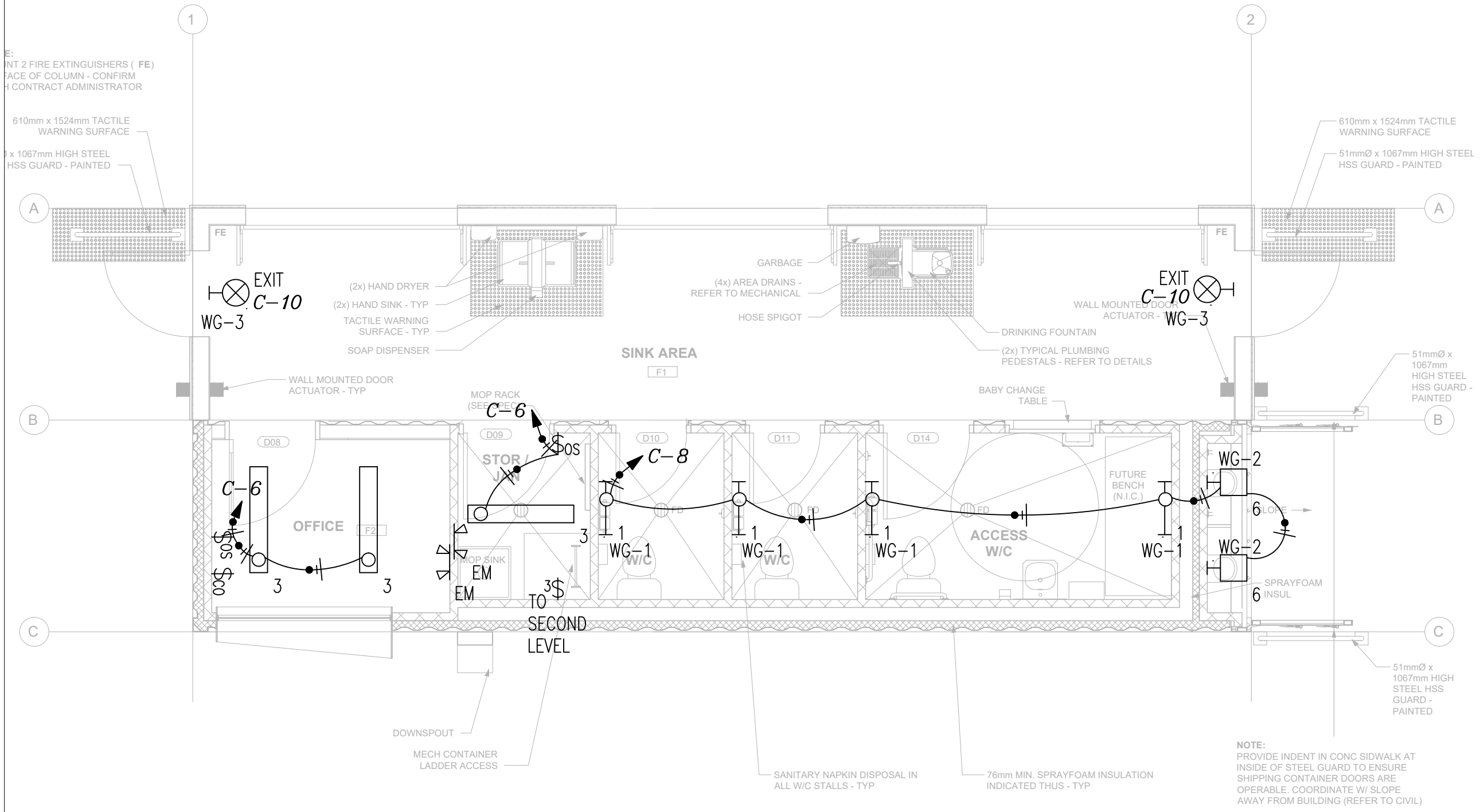
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 No. 5474 Expiry: April 30, 2021


January 30, 2021

CLIENT: BRIDGMAN COLLABORATIVE ARCHITECTURE
 678 MAIN STREET
 WINNIPEG, MB R3B 1E4
 (204)488-3857
 PROJECT TITLE: LOO LOO WINNIPEG
 715 MAIN ST., WINNIPEG, MB
 BID OPPORTUNITY 54-2021

SHEET TITLE: MAIN LEVEL-POWER LAYOUT
 PROJECT NO: 201231
 SCALE: 1/4"=1'-0"
 DESIGNED BY: AK
 DRAWN BY: AK
 REVIEWED BY: AK

SHEET NO:
E02.1



GENERAL NOTES

- 1 ELECTRICAL CONTRACTOR TO REFER TO ARCHITECTURAL DRAWINGS FOR INSTALL LOCATIONS OF LIGHT FIXTURES.
- 2 INTERLOCK EMERGENCY LIGHTING WITH LIGHT CIRCUIT IN AREA OF SERVICE.
- 3 SUPPLY & INSTALL 3/4" THICKNESS BACKING FOR POT LIGHT TO EXTEND AT LEAST A MINIMUM OF 12" IN ALL DIRECTIONS. BACKING TO BE PLYWOOD, HARDIBOARD OR EQUIVALENT MATERIAL.
- 4 SUPPLY & INSTALL STAINLESS STEEL SECURITY HARDWARE FOR ALL LIGHT FIXTURES & CAGES WITHIN 10' OF FGL OR FGL.
- 5 SUPPLY & INSTALL EXPOSED ELECTRICAL TO BE IN EMT. PAINT ALL EMT ELECTRICAL INSTALLATION TO MATCH EXISTING FINISH & COLOR SPECIFIED ON ARCHITECTURAL DRAWINGS.

SWITCH SCHEDULE		
CALLOUT	SYMBOL	NOTE 1
CO Switch	\$ _{CO}	LEWTON, PART#PSSR-10 FOR WIRING TO PART# VPT24-1PZ. FULLY PROGRAM & SETUP.
OS	\$ _{OS}	LEWTON, PART#OSMT-MDW, ADJUST BLINDS TO PREVENT EXTENDED ACTIVATION
TIME-LOCK Switch	\$ _{TL}	LEWTON, PART# VPT24-1PZ. FULLY PROGRAM & SETUP. IF LOAD EXCEEDS BOX OF TIME LOCK CAPACITY USE CONTRACTOR TO CONTROL CIRCUIT

NOTE:
 PROVIDE INDENT IN CONC SIDEWALK AT INSIDE OF STEEL GUARD TO ENSURE SHIPPING CONTAINER DOORS ARE OPERABLE. COORDINATE W/ SLOPE AWAY FROM BUILDING (REFER TO CIVIL)

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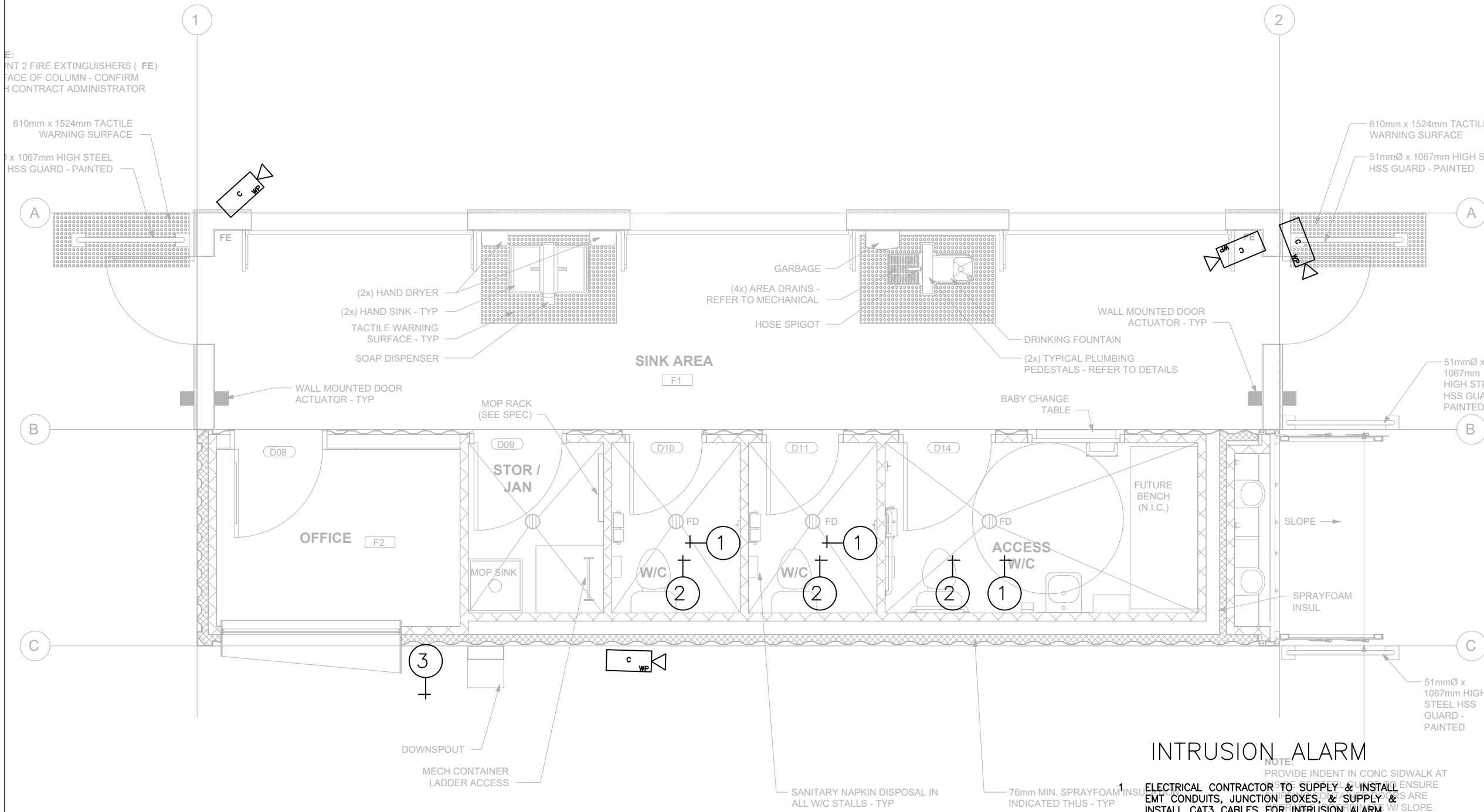
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 WINNIPEG, MB R3B 1E4
 (204)488-3857
 PROJECT TITLE: LOO LOO WINNIPEG
 715 MAIN ST., WINNIPEG, MB
 BID OPPORTUNITY 54-2021

SHEET TITLE: MAIN LEVEL-LIGHTING LAYOUT
 PROJECT NO: 201231
 SCALE: 1/4"=1'-0"
 DESIGNED BY: AK
 DRAWN BY: AK
 REVIEWED BY: AK

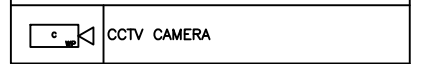
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E02.2



CCTV SPECIFICATIONS

- ELECTRICAL CONTRACTOR TO SUPPLY & INSTALL EMT CONDUITS, JUNCTION BOXES, & SUPPLY & INSTALL CAT6 CABLES FOR THE CCTV SYSTEM. TERMINATE & TEST WIRES. KEEP TEST LOG & INCLUDED IN O&M MANUAL. CONTACT MR. MICHEAL KUCBEL- BUILDING SYSTEM TECHNICIAN AT THE CITY OF WINNIPEG IN THE MUNICIPAL ACCOMMODATIONS TO OBTAIN LIST OF MATERIAL (& EQUIPMENT) DESIGNATED FOR THIS PROJECT. ELECTRICAL CONTRACTOR TO INCLUDE COST FOR THE INSTALLATION OF THE CCTV COMPONENTS & COMMISSIONING OF THE SYSTEM TO CITY OF WINNIPEG SATISFACTION. CCTV SYSTEM IS LOCATED AT SECOND LEVEL MECH. ROOM.

CCTV LEGEND



PANIC/ DISTRESS ALARM SYSTEM

- ELECTRICAL CONTRACTOR TO SUPPLY & INSTALL EMT CONDUITS, JUNCTION BOXES, & SUPPLY & INSTALL REQUIRED CABLES FOR THE PANIC/ DISTRESS ALARM SYSTEM AS SPECIFIED.
- DISTRESS SYSTEM SHALL COMPRISE OF:
 - PANIC BUTTON: NO MOVING PARTS, STAINLESS STEEL COVER PLATE C/W VANDAL PROOF HARDWARE, WIRED SYSTEM. ENGRAVED TEXT ABOVE BUTTONS TO READ "ACTIVATE TO CALL ALARM IN CASE OF NEED. ALARM WILL SOUND".
 - STROBE LIGHT: VANDAL PROOF HARDWARE INSTALLED TO ORDINARY RECESSED BOX C/W VANDAL PROOF HARDWARE, WIRED SYSTEM.
 - HORN/SIREN: TEMPORAL SIGNAL OUTPUT.
 - MAIN SYSTEM: TO BE HARDWIRED TO ABOVE DEVICES, ACTIVATION OF PARTICULAR PANIC BUTTON WILL ACTIVATE SELECTIVE STROBE LIGHT & HORN/SIREN C/W LOG FOR LOGGING CAPABILITY TO SAVE & RETAIN EVENTS FOR 12 MONTHS.

PANIC/ DISTRESS ALARM SYSTEM LEGEND

+ 1	PANIC BUTTON, STAINLESS STEEL PLATE WITH NO MOVING PART. INSTALLED AT 30" AFFL.
+ 2	DISTRESS SYSTEM STROBE LIGHT, 70cd. BLUE LIGHT COLOR INSTALL AT 7' AFFL.
+ 3	DISTRESS SYSTEM HORN/SIREN, 100dB, OUTDOOR RATED, RED COLOR INSTALL AT 9' AFFL.
DIS	PANIC/ DISTRESS MAIN SYSTEM - INSTALL AT SECOND LEVEL MECH. ROOM

INTRUSION ALARM

NOTE: PROVIDE INDENT IN CONC SIDWALK AT POINTS WHERE CABLES ARE TO CROSS OVER (SEE CIVIL)

ELECTRICAL CONTRACTOR TO SUPPLY & INSTALL EMT CONDUITS, JUNCTION BOXES, & SUPPLY & INSTALL CAT3 CABLES FOR INTRUSION ALARM SYSTEM. TERMINATE & TEST WIRES. KEEP TEST LOG & INCLUDED IN O&M MANUAL. SUPPLY & INSTALL TERMINATION POINTS FOR DOOR CONTACTS FOR THE TWO MAIN DOORS & OFFICE DOOR. KEYPAD TO BE WALL MOUNTED IN OFFICE, SYSTEM IN SECOND LEVEL. SYSTEM TO BE MONITORED TO CITY'S CENTRAL SYSTEMS. CONTACT MR. MICHEAL KUCBEL- BUILDING SYSTEM TECHNICIAN AT THE CITY OF WINNIPEG IN THE MUNICIPAL ACCOMMODATIONS TO OBTAIN APPROVED LIST OF EQUIPMENT SUPPLIERS. ELECTRICAL CONTRACTOR TO INCLUDE COST OF THE EQUIPMENT & THE INSTALLATION OF THE EQUIPMENT & COMMISSIONING OF THE SYSTEM TO CITY OF WINNIPEG SATISFACTION & A FULLY WORKING SYSTEM. LOCATION OF KEYPAD IN OFFICE TO BE CONFIRMED ON SITE.

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C	RE-ISSUED FOR CONSTRUCTION	AK	AK	21 02 04
B	ISSUED FOR CONSTRUCTION	AK	AK	21 01 30
A	ISSUED FOR REVIEW	AK	AK	21 01 21
ISSUED		BY	APPR.	DATE

SEAL:
APEGM
 Certificate of Authorization
 Ibsa Enterprises Inc.
 No. 5474 Expiry: April 30, 2021



CLIENT: BRIDGMAN COLLABORATIVE ARCHITECTURE
 678 MAIN STREET
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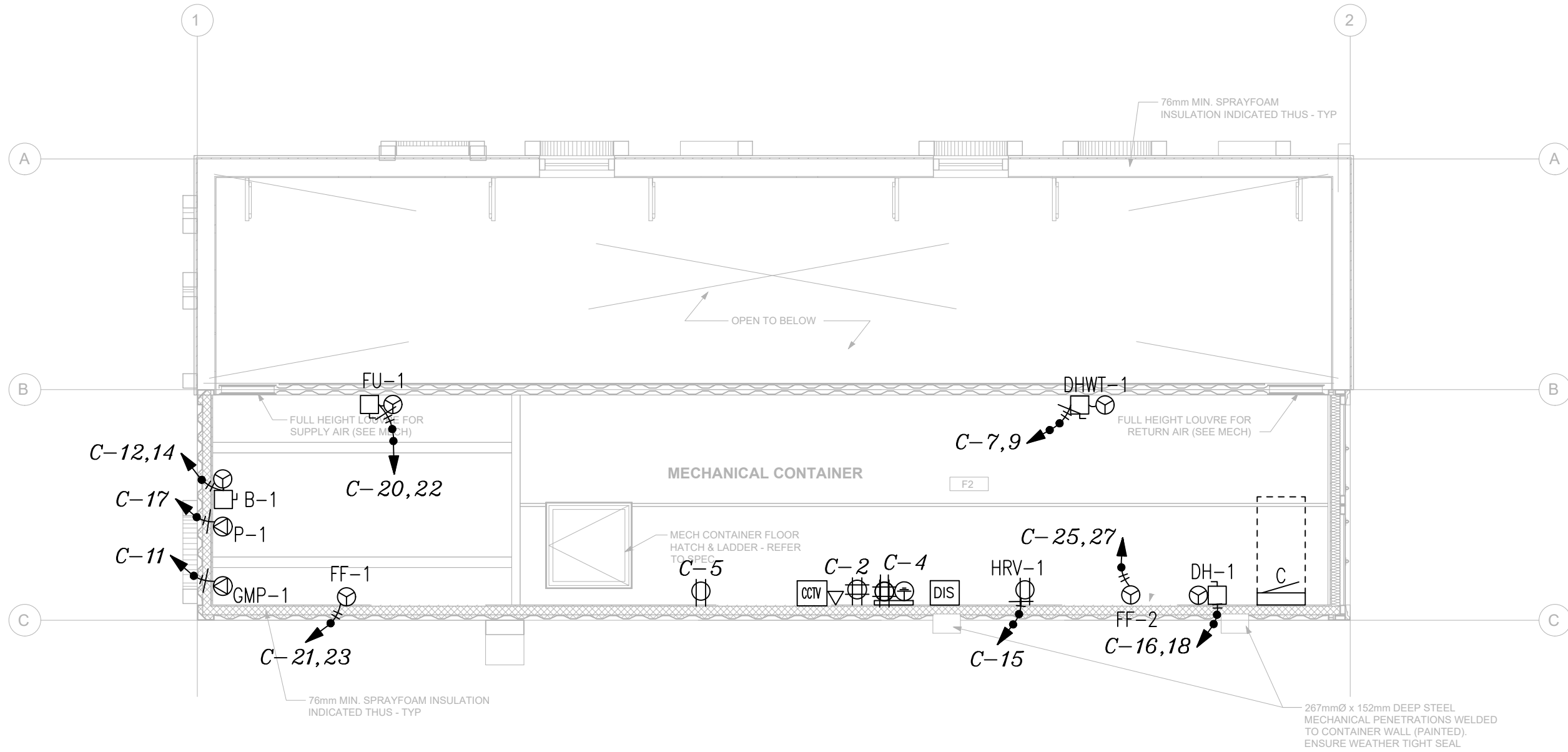
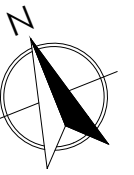
PROJECT TITLE: LOO LOO WINNIPEG
 715 MAIN ST., WINNIPEG, MB
 BID OPPORTUNITY 54-2021

SHEET TITLE: MAIN LEVEL-LOW VOLTAGE SYSTEMS

PROJECT NO: 201231
 SCALE: 1/4"=1'-0"

DESIGNED BY: AK
 DRAWN BY: AK
 REVIEWED BY: AK

SHEET NO:
E02.3



GENERAL NOTES

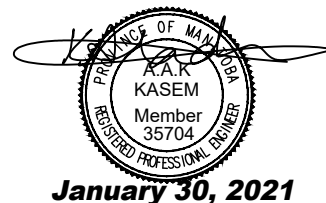
- 1 ELECTRICAL CONTRACTOR TO REFER TO ARCHITECTURAL DRAWINGS & MILLWORK LAYOUTS FOR COORDINATION OF LOCATION OF RECEPTACLES & OUTLETS.
- 2 SUPPLY & INSTALL PHONE & DATA OUTLET BOXES C/W CONDUITS & PULL ROPES FROM OUTLETS TO EXISTING COMMUNICATION BOARD IN THE BUILDING. LABEL EACH END OF THE PULL ROPE FOR IDENTIFICATION.
- 3 INTERLOCK EMERGENCY LIGHTING WITH LIGHT CIRCUIT IN AREA OF SERVICE.
- 4 ELECTRICAL CONTRACTOR TO INSTALL ELECTRICAL CONTROL EQUIPMENT FOR MECHANICAL EQUIPMENT, PROVIDE CONTROL WIRING, & ELECTRICAL SERVICE TO MECHANICAL EQUIPMENT.
- 5 COORDINATE WITH OTHER TRADES ON SITE FOR INSTALLATION OF LIGHT FIXTURES IN THE SPACE.
- 6 SUPPLY & INSTALL EXPOSED ELECTRICAL TO BE IN EMT.
- 7 SUPPLY & INSTALL ALL EMT TUBING DESTINED FROM MECHANICAL AREA/ROOM AT SECOND LEVEL TO SINK AREA LIGHTS & ALL OTHER WALL MOUNTED SYSTEMS IN THE SINK AREA, INCLUDING BUT NOT LIMITED TO CCTV, POWER FOR DOOR OPERATORS TO BE ROUTED THROUGH THIRD LEVEL CONTAINERS WITH MINIMUM OCCUPANCY OF SINK ROOM CEILING.

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A	ISSUED FOR REVIEW	AK	AK	21 01 21
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SEAL:



CLIENT: BRIDGMAN COLLABORATIVE ARCHITECTURE
678 MAIN STREET
WINNIPEG, MB R3B 1E4
(204)488-3857
PROJECT TITLE: LOO LOO WINNIPEG
715 MAIN ST., WINNIPEG, MB
BID OPPORTUNITY 54-2021

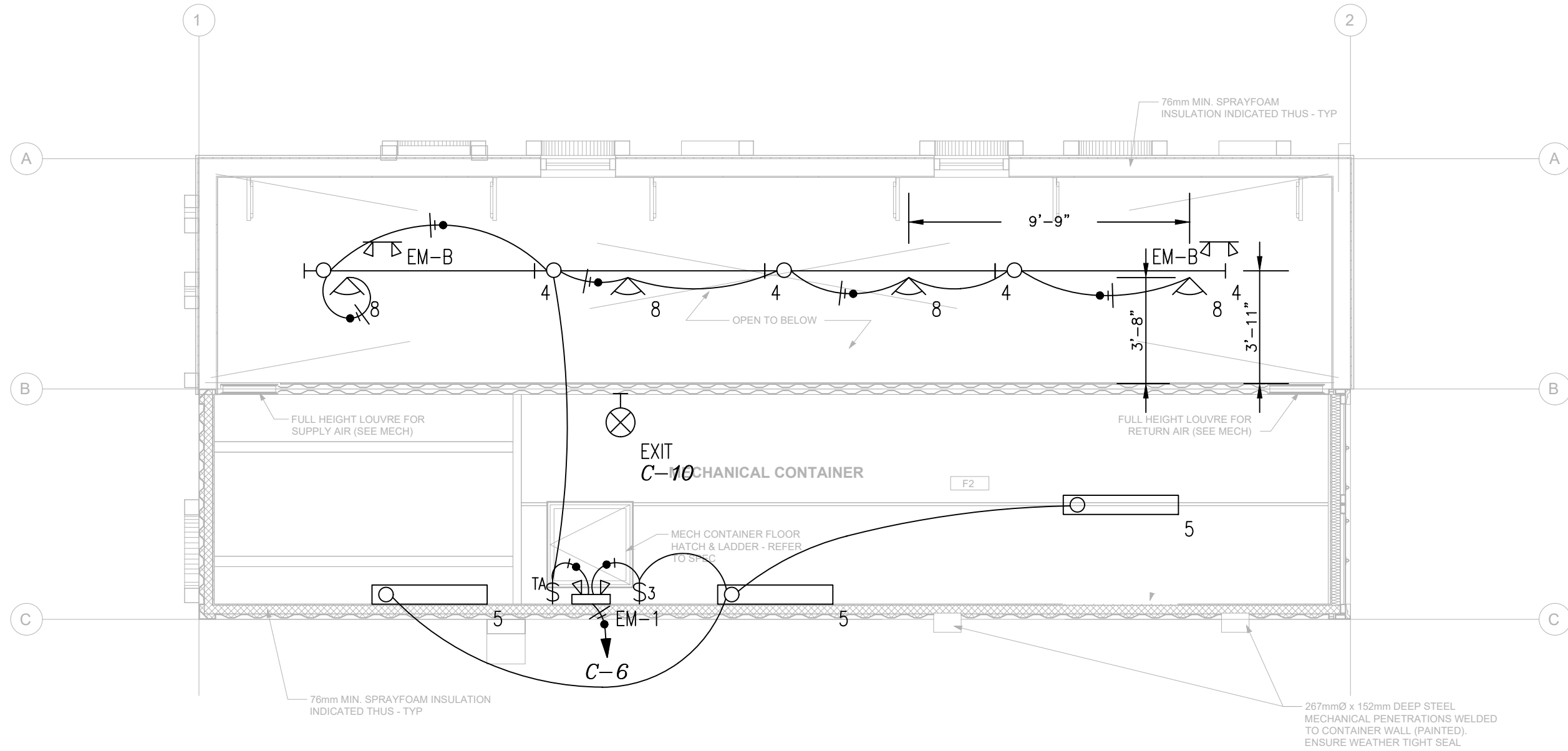
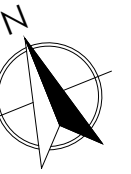
SHEET TITLE:
SECOND LEVEL-POWER LAYOUT

PROJECT NO:
201231
SCALE:
1/4"=1'-0"

DESIGNED BY: AK
DRAWN BY: AK
REVIEWED BY: AK

SHEET NO:

E03.1



GENERAL NOTES

- 1 ELECTRICAL CONTRACTOR TO REFER TO ARCHITECTURAL DRAWINGS FOR INSTALL LOCATIONS OF LIGHT FIXTURES.
- 2 INTERLOCK EMERGENCY LIGHTING WITH LIGHT CIRCUIT IN AREA OF SERVICE.
- 3 SUPPLY & INSTALL REMOTE EMERGENCY LIGHTING HEAD SHOWN TO TO BE CONNECTED TO EXISTING EMERGENCY LIGHTING BATTERY BANK IN THE BUILDING.
- 4 SUPPLY & INSTALL EXPOSED ELECTRICAL TO BE IN EMT.

SWITCH SCHEDULE		
CALLOUT	SYMBOL	NOTE 1
CO Switch	\$ _{co}	LEVITON, PART#VPOSR-10 FOR WIRING TO PART# VPT24-1PZ. FULLY PROGRAM & SETUP.
OS	\$ _{os}	LEVITON, PART#OSSMT-MDW, ADJUST BLINDS TO PREVENT EXTENDED ACTIVATION
TIME-LOCK Switch	\$ _{tl}	LEVITON, PART# VPT24-1PZ, FULLY PROGRAM & SETUP. IF LOAD EXCEEDS BOX OF TIME LOCK CAPACITY USE CONTACTOR TO CONTROL CIRCUIT

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A	AK AK	21 01 21
ISSUED	BY APPR.	DATE

SEAL:

 Certificate of Authorization
 Ibaso Enterprises Inc.
 No. 5474 Expiry: April 30, 2021

KASEM
 KASEM
 Member 35704
 REGISTERED PROFESSIONAL ENGINEER
January 30, 2021

CLIENT: BRIDGMAN COLLABORATIVE ARCHITECTURE
 678 MAIN STREET
 WINNIPEG, MB R3B 1E4
 (204)488-3857
 PROJECT TITLE: LOO LOO WINNIPEG
 715 MAIN ST., WINNIPEG, MB
 BID OPPORTUNITY 54-2021

SHEET TITLE: SECOND LEVEL-LIGHTING LAYOUT
 PROJECT NO: 201231
 SCALE: 1/4"=1'-0"
 DESIGNED BY: AK
 DRAWN BY: AK
 REVIEWED BY: AK

SHEET NO:
E03.2

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	LAMP	DESCRIPTION	MOUNTING	MODEL	INPUT WATTS	VOLTS	NOTE 1	QUANTITY
1		(1) LED-3500K	VISCOR - LCOMN Square - Intellect-LED Linear Type N - Architectural Lighting	CEILING	LCOM-N-24-LED8-35K-020L-UNV-P95-V99(LV02) C/W INTEGRAL OCCUPANCY SENSOR	18	120V 1P 2W	C/W Remote Controller, ELCO0368, ONE UNIT FOR SITE-SET OCCUPANCY TIMEOUT TO 10MIN.	4
3		(1) LED-3000K	AERALUX LIGHTING-LED LINEAR	SURFACE	AE-SF-ER-ECO-UN-4-32-N-30	32	120V 1P 2W		3
4		(4) LED-3500K	VISIONEERING 8' LED INDOOR STRIP LUMINAIRE WITH WHITE INTERIOR AND NO LENS	CEILING	LCOM96-LED835K140LUNV	103.62	120V 1P 2W	C/W STEM KIT PART#KIT00050	4
5		(1) LED-3000K	AERALUX LIGHTING-LED LINEAR	WALL	AE-SF-ER-ECO-UN-4-32-N-30	32	120V 1P 2W	INSTALL AT 7' AFFL.	3
6		(1) LED-4000K	ORACLE LIGHTING LED Die-Cast Aluminum Slim Full Cut-Off Wall	WALL	OWP-FC-116-LED-3500L-MVOLT-30K-**-WPPHC	27	120V 1P 2W	C/W INTEGRAL PHOTOCELL-INSTALL AT 7.5' AFL- CONFIRM FINISH PRIOR TO ORDER	2
8		(1) LED-4000K	ORACLE LIGHTING - LED Mini Slimline Floodlight Series	SURFACE	ELITE, OFL-SL-202-LED-3000L-MVOLT-40K-BZ	30	120V 1P 2W	INSTALL ON 2.0' EMT STEM BELOW CEILING SURFACE	4
EM		(2) LED	EMERGI LITE-REMOTE HEAD	WALL/CEILING	EMERGI LITE EF90MLG	8	12V 1P 2W		2
EM-1		(2) LED	EMERGENCY LIGHTING C/W BATTERY & TWO HEADS	WALL	EMERGI-LITE 12ESL-144-/2LG	100	120V 1P 2W		1
EM-B		(2) LED	EMERGI LITE-REMOTE HEAD	WALL/CEILING	EMERGI LITE EF90MLG	8	12V 1P 2W	BLACK COLOR	2
EXIT		(1) LED	EMERGENCY EXIT LIGHT	WALL/CEILING	EMERGI-LITE EA1W	2.5	120V 1P 2W	GREEN PICTOGRAM/W GAGE	3
WG-1		(1) -	WIRE GUARD-CUSTOM PART	CEILING	STAINLESS STEEL MESH, 1" X 1" OPENINGS & 8 SECURITY SCREWS - TO SUIT		120V 1P 2W	C/W HARDWARE INSTALLED IN WALLS AS SPECIFIED TO COVER FIXTURE TYPE 1	4
WG-2		(1) -	WIRE GUARD-CUSTOM PART	CEILING	STAINLESS STEEL MESH, 1" X 1" OPENINGS & 4 SECURITY SCREWS		120V 1P 2W	C/W HARDWARE INSTALLED IN WALLS AS SPECIFIED TO COVER FIXTURE TYPE 6	2
WG-3		(1) -	WIRE GUARD-CUSTOM PART	CEILING	STAINLESS STEEL MESH, 1" X 1" OPENINGS & 4 SECURITY SCREWS		120V 1P 2W	C/W HARDWARE INSTALLED IN WALLS AS SPECIFIED TO COVER FIXTURE EXIT SIGN	2

EQUIPMENT & MOTORS EQUIPMENT SCHEDULE

CALLOUT	DESCRIPTION	SYMBOL	VOLTS	AMPS	KW	CIRCUIT	NOTE 1
DHWT-1	DOMESTIC HOT WATER TANK-ELECTRIC		240/120V 2P 3W	18.75	4.5	C-7,9	SUPPLIED BY OTHERS
GMP-1	IN-FLOOR HEATING MAKE-UP PACKAGE		120V 1P 2W	0.83	0.1	C-11	SUPPLIED BY OTHERS
HD-1	HAND DRYER		120V 1P 2W	13.33	1.6	C-13	SUPPLIED BY OTHERS
HD-2	HAND DRYER		120V 1P 2W	13.33	1.6	C-24	SUPPLIED BY OTHERS
HRV-1	HEAT RECOVERY VENTILATOR		120V 1P 2W	2.5	0.3	C-15	SUPPLIED BY OTHERS
P-1	IN-FLOOR HEATING RE-CIRCULATING PUMP		120V 1P 2W	0.83	0.1	C-17	SUPPLIED BY OTHERS
PDO-1	POWER DOOR OPERATOR		120V 1P 2W	2.5	0.3	C-19	SUPPLIED BY OTHERS
PDO-2	POWER DOOR OPERATOR		120V 1P 2W	2.5	0.3	C-19	SUPPLIED BY OTHERS

ELECTRIC HEATERS EQUIPMENT SCHEDULE

CALLOUT	DESCRIPTION	SYMBOL	VOLTS	AMPS	KW	CIRCUIT	ORDERING INFORMATION
B-1	IN-FLOOR HEATING BOILER-ELECTRIC		240V 2P 2W	41.67	10	C-12,14	SUPPLIED BY OTHERS
DH-1	DUCT HEATER		240/120V 2P 3W	12.5	3	C-16,18	SUPPLIED BY OTHERS
FF-1	FORCE FLOW HEATER-BACKUP ONLY		240V 2P 2W	8.33	2	C-21,23	QUELLET, PART#QAC02000 WITH TAMPERPROOF THERMOSTAT SET TO 5 DEG. C. NO ACCESS SHALL BE AVAILABLE TO USER TO ADJUST TEMPERATURE
FF-2	FORCE FLOW HEATER-BACKUP ONLY		240V 2P 2W	8.33	2	C-25,27	QUELLET, PART#QAC02000 WITH TAMPERPROOF THERMOSTAT SET TO 5 DEG. C. NO ACCESS SHALL BE AVAILABLE TO USER TO ADJUST TEMPERATURE
FU-1	ELECTRIC FURNACE		240/120V 2P 3W	62.5	15	C-20,22	SUPPLIED BY OTHERS

1 E06 EQUIPMENT SCHEDULES

C

ROOM MOUNTING SURFACE
FED FROM HYDRO
NOTE EATON-P1AB4A2-42ED-C/W 200AMP MAIN BREAKER

VOLTS 240/120V 2P 3W
BUS AMPS 200
NEUTRAL 100%

AIC 22,000
MAIN BKR 200
LUGS STANDARD

CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA		CKT #	CKT BKR	CIRCUIT DESCRIPTION	LOAD KVA	
			A	B				A	B
1	15/1	USB OUTLET CHARGER	0.54		2	15/1	RECEPTACLE	0.18	
3	15/1	RECEPTACLE	0.36		4	15/1	RECEPTACLE	0.18	
5	15/1	RECEPTACLE	0.18		6	15/1	LIGHTING	0.826	
7	30/2	DHWT-1	2.25	2.25	8	15/1	LIGHTING	0.126	0.126
9			2.25		10	15/1	LIGHTING	0.008	
11	15/1	GMP-1	0.1		12	60/2	B-1	5	5
13	15/1	HD-1	1.6		14			5	
15	15/1	HRV-1	0.3		16	20/2	DH-1	1.5	1.5
17	15/1	P-1	0.1		18			1.5	
19	15/1	PDO-1, PDO-2	0.6		20	80/2	FU-1	7.5	7.5
21	15/2	FF-1	1		22			7.5	
23			1		24	15/1	HD-2	1.6	1.6
25	15/2	FF-2	1		26	15/1	SPACE	0	0
27			1		28	15/1	SPACE	0	0
29	15/1	SPACE	0		30	15/1	SPACE	0	0
31	15/1	SPACE	0		32	15/1	SPACE	0	0
33	15/1	SPACE	0		34	15/1	SPACE	0	0
35	15/1	SPACE	0		36	15/1	SPACE	0	0
37	15/1	SPACE	0		38	15/1	SPACE	0	0
39	15/1	SPACE	0		40	15/1	SPACE	0	0
41	15/1	SPACE	0		42	15/1	SPACE	0	0

TOTAL CONNECTED KVA BY PHASE 21.7 21.5

	CONN KVA	CALC KVA		CONN KVA	CALC KVA
LIGHTING	0.96	1.2	(125%)	CONTINUOUS	4.5
LARGEST MOTOR	0.3	0.075	(25%)	HEATING	28.3
OTHER MOTORS	0.8	0.8	(100%)	COOLING	0.3
RECEPTACLES	1.44	1.44	(50%>10)	NONCONTINUOUS	0
KITCHEN EQUIP	0	0	(N/A)	DIVERSE	7.2
				METERED DEMAND	0
				TOTAL KVA	43.2
				BALANCED AMPS	39.1
					163

3 E06 PANEL SCHEDULES

- NOTES**
- CIRCUIT BREAKER PROTECTION:
1. FULLY RATED OR USING SERIES RATED COMBINATIONS
2. INTEGRATED EQUIPMENT RATED (IER) WHEN USING SERIES-RATED SYSTEMS, THEY SHALL BE TESTED/LABELED AS A SERIES-RATED COMBINATION
3. LABEL/NAMEPLATE TO BE INSTALLED IN A CONSPICUOUS AND LEGIBLE MANNER TO INDICATE THAT THEY SHOULD ONLY BE REPLACED WITH COMPONENTS OF THE SAME TYPE AND RATING REFER TO CEC 14-014
 - DOWNSTREAM OVERCURRENT DEVICES MUST BE SERIES RATED COMBINATIONS WITH THE UPSTREAM PROTECTIVE DEVICE. FOR SERIES RATED COMBINATIONS, EACH DEVICE MUST BE LABELED TO INDICATE:
1. THAT REPLACEMENT COMPONENTS MUST BE OF THE SAME TYPE AND RATING ONLY
2. TESTED IER KA RATING
3. SPECIFIC UPSTREAM PROTECTIVE DEVICE
4. PERMISSIBLE BRANCH DEVICES
5. PANELBOARD DESIGNATION
6. VOLTAGE
 - ELECTRICAL SERVICE EQUIPMENT SHALL MEET UTILITY REQUIREMENTS.
 - ELECTRICAL SERVICE EQUIPMENT INSTALLED OUTDOOR SHALL BE RATED NEMA/CSA 3R.

FEEDER SCHEDULE

ID	FEEDER AMPS	CONDUIT AND FEEDER
200/21.5B	200	2" C-2#250kcmil AL #250kcmil AL N #4G

SIZING METHOD: N FOR NEUTRAL, G FOR GROUND, C FOR CONDUIT. NUMBER BETWEEN () INDICATES NUMBER OF LINE & NEUTRAL PARALLEL RUNS

PANEL SCHEDULE

CALLOUT	VOLTS	BUS AMPS	MAIN DISCONNECT TYPE	MAIN DISCONNECT AMPS	MOUNTING	POLES	NOTE 1	AIC RATING
C	240/120V 2P 3W	200	BREAKER	200	SURFACE	42	EATON-P1AB4A2-42ED-C/W 200AMP MAIN BREAKER	22,000

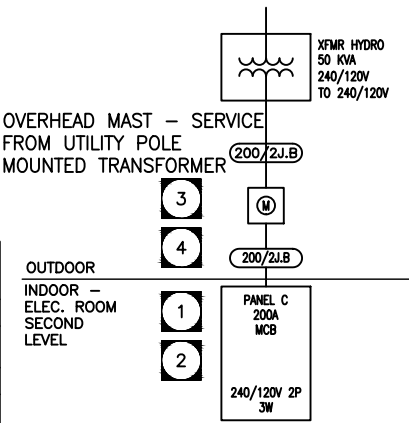
ELECTRICAL CONTROLS, OUTLETS, & SWITCHES INSTALLATION

HEIGHTS ARE IN INCHES

TYPE	AREA/ROOM				
	PUBLIC AREAS	OFFICE	MECH. ROOM	WASHROOMS	COUNTERS
RECEPTACLE *	18	18	40	-	-
HVAC CONTROLS			47.3 (1200mm)		
COMMUNICATION OUTLETS			40		
EMERGENCY LIGHTING			96"		
MANUAL LIGHT CONTROLS			43		
OCCUPANCY SENSORS			47.3 (1200mm)		

* EXCEPT CEILING MOUNTED ONES
** EXCEPT OTHERWISE NOTED ON PLANS
*** HEIGHTS ARE MEASURED FROM FINISH FLOOR LEVEL TO BOTTOM OF OUTLET BOX.

2 E06 SINGLE LINE DIAGRAM - ELECTRICAL SERVICE



4 E06 INSTALLATION HEIGHTS - ELECTRICAL CONTROLS

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ISSUED	BY	APPR.	DATE		

SEAL: **APEGM**
Certificate of Authorization
Ibasa Enterprises Inc.
No. 5474 Expiry: April 30, 2021

KASEM
REGISTERED PROFESSIONAL ENGINEER
Member 35704
January 30, 2021

CLIENT: BRIDGMAN COLLABORATIVE ARCHITECTURE
678 MAIN STREET
WINNIPEG, MB R3B 1E4
(204)488-3857

PROJECT TITLE: LOO LOO WINNIPEG
715 MAIN ST., WINNIPEG, MB
BID OPPORTUNITY 54-2021

SHEET TITLE: EQUIPMENT & PANEL SCHEDULES

PROJECT NO: 201231

SCALE: NTS

DESIGNED BY: AL
DRAWN BY: AL
REVIEWED BY: AL

SHEET NO: **E06**

MANITOBA ENERGY CODE FOR BUILDINGS (MECB) ELECTRICAL COMPLIANCE MATRIX

#	CLAUSE	ITEM	NOTES	VERDICT	UNITS
1	4.2.1	INTERIOR LIGHTING POWER			
2	4.2.1.1	EXIT SIGNS	PER SIGN		1.5 W
3	4.2.1.2	FLUORESCENT LAMP BALLASTS			NO FLUORESCENT FIXTURES SPECIFIED
4	4.2.1.3	LIMITS TO INSTALLED INTERIOR LIGHTING POWER			WITHIN LIMIT
5	4.2.1.5	CALCULATION OF INTERIOR LIGHTING POWER ALLOWANCE USING THE BUILDING AREA METHOD			BUILDING DESIGN
6	4.2.2.1	ALLOWED LIGHTING DENSITY	TABLE 4.2.2.1.1 TRANSPORTATION TERMINAL	11.6	W/SQ M
7	4.2.2.2	BUILDING AREA		76.6	SQ M
8	4.2.2.3	BUILDING SERVICE AREA		0	SQ M
9	4.2.2.4	ALLOWED LIGHTING DENSITY IN BUILDING SPACES		889	W
10	4.2.2.5	ACTUAL LIGHTING DENSITY		824	W
11	4.2.2.6	LIGHTING CONTROLS IN ENCLOSED SPACES			PROVIDED
12	4.2.2.7	INTERIOR LIGHTING CONTROLS			PROVIDED
13	4.2.3	EXTERIOR LIGHTING POWER			
14	4.2.3.1	LIGHTING ZONE CLASSIFICATION	TABLE 4.2.3.1.A	2	
15	4.2.3.2	BASIC LIGHTING ALLOWANCE	ALLOWED PER TABLE 4.2.3.1.B	600	W
16	4.2.3.3	USED		54	W
17	4.2.3.4	REMAINING		546	W
18	4.2.3.5	SPECIFIC BUILDING EXTERIOR APPLICATIONS			
19					
20					
21					
22					NOT USED
23					
24					
25					
26					
27	4.2.4	EXTERIOR LIGHTING CONTROLS	PHOTOCELL & TIME-LOCK PROVIDED		
28	7.2.1	ELECTRICAL DISTRIBUTION SYSTEM			
29	7.2.1.1 (1)	MONITORING			DEMAND CALCULATIONS SHOW DEMAND BELOW 250KVA
30	7.2.1.1 (2)	MONITORING			N/A
31	7.2.2	VOLTAGE DROP			PER WEB TABLES
32	7.2.3	TRANSFORMERS			NOT INSTALLED/USED IN THE PROJECT
33	7.2.4	ELECTRICAL MOTORS			
34	7.2.4.1	EFFICIENCY			NOTE INCLUDED TO INDICATE EFFICACY REQUIREMENTS

5 E06 MECB COMPLIANCE MATRIX - NEW BUILDING

1. GENERAL

- 1.1. REQUIREMENTS, INSTRUCTIONS TO BIDDERS, THIS SPECIFICATIONS AND ANY ADDENDA HERETO FORM PART OF THE CONTRACT DOCUMENTS AND SHALL BE READ IN CONJUNCTION WITH THEM. WORK TO INCLUDE THE FURNISHING OF ALL LABOR AND MATERIALS UNLESS OTHERWISE SPECIFIED OTHERWISE TO COMPLETE AND PUT INTO OPERATING CONDITIONS ALL ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN.
- 1.2. RESPONSIBILITY AS TO WHICH TRADES PROVIDES REQUIRED ARTICLES OR MATERIAL RESTS SOLELY WITH THE GENERAL CONTRACT TRADE. EXTRAS WILL NOT BE CONSIDERED BASED ON GROUNDS OF DIFFERENCE OF INTERPRETATION OF SPECIFICATIONS AS TO WHICH TRADE INVOLVED SHALL PROVIDE CERTAIN SPECIALITIES OR MATERIALS.
- 1.3. EXAMINE SITE, LOCAL CONDITIONS, DRAWINGS FOR FACTORS AFFECTING WORK TO WHICH DRAWINGS APPLY TO ENSURE THAT WORK CAN SATISFACTORY BR CARRIED OUT WITHOUT CHANGES TO DRAWINGS. NO ALLOWANCES WILL BE MAKE LATER FOR ANY EXPENSE INCURRED THROUGH FAILURE TO MAKE THIS EXAMINATION. START OF WORK WILL DEEMED EVIDENCE OF, ACCEPTANCE OF, AND SATISFACTION WITH SITE, LOCAL CONDITIONS, AND DRAWINGS.
- 1.4. MUST: THIS WORD, OR THE TERMS "REQUIRED" OR "SHALL", MEAN THAT THE DEFINITION IS AN ABSOLUTE REQUIREMENT OF THE SPECIFICATION. PROVIDE TO MEAN "SUPPLY & INSTALL."
2. DRAWINGS AND SPECIFICATIONS
 - 2.1. DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY TO EACH OTHER AND WHAT IS CALLED FOR BY ONE TO BE BINDING AS IF CALLED FOR BY OTHER.
 - 2.2. SHOULD ANY DISCREPANCY APPEAR BETWEEN DRAWINGS AND SPECIFICATIONS WHICH LEAVES ELECTRICAL CONTRACTOR IN DOUBT AS TO TRUE INTENT AND MEANING, OBTAIN RULING BEFORE SUBMITTING TENDER. IF THIS IS NOT DONE, IT WILL BE ASSUMED THAT THE MOST EXPENSIVE ALTERNATE HAS BEEN FIGURED.
3. EXAMINATION OF OTHER DRAWINGS
 - 3.1. THIS CONTRACTOR TO EXAMINE CAREFULLY STRUCTURAL, ARCHITECTURAL AND MECHANICAL DRAWINGS AND WORK OF OTHER TRADES AND SATISFY HIMSELF THAT THE WORK UNDER THIS CONTRACT CAN BE SATISFACTORY CARRIED OUT WITHOUT CHANGES TO THE BUILDING AS SHOWN ON THE PLANS. SHOULD ANY DIFFICULTY ARISE SHOWING CONFLICT WITH, OR REQUIRING ADDITIONAL WORK BEYOND THE WORK OF THESE DRAWINGS, BRING THIS MATTER TO THE ATTENTION OF THE CONTRACT ADMINISTRATOR BEFORE SUBMITTING TENDER.
4. UNIFORMITY OF EQUIPMENT
 - 4.1. UNLESS OTHERWISE SPECIFIED, UNIFORMITY OF MANUFACTURER TO BE MAINTAINED FOR ANY PARTICULAR ITEM THROUGHOUT.
5. STANDARDS OF MATERIAL AND WORKMANSHIP
 - 5.1. ALL MATERIALS TO BE NEW AND OF THE QUALITY SPECIFIED AND CONFORM TO THE STANDARDS OF THE CSA. WHERE EQUIPMENT OR MATERIALS ARE SPECIFIED BY TECHNICAL DESCRIPTION ONLY, THEY SHALL BE OF THE BEST COMMERCIAL QUALITY OBTAINABLE FOR THE PURPOSE.
 - 5.2. ALL WORK TO BE EXECUTED IN A NEAT AND WORKMANLIKE MANNER BY QUALIFIED TRADESMEN. ELECTRICAL CONTRACTOR TO KEEP A COMPETENT FOREMAN AND NECESSARY ASSISTANTS ON THE JOB DURING THE PROGRESS OF THE WORK.
 - 5.3. ALL MATERIAL AND INSTALLATION SHALL MATCH BUILDING STANDARD UNLESS IT IS NOTED ON THE DRAWINGS.
6. RECORD PLANS & DIGITAL PHOTOGRAPHS
 - 6.1. THE CONTRACT ADMINISTRATOR WILL FURNISH TO THE ELECTRICAL CONTRACTOR A PORTABLE DOCUMENT FORMAT "PDF" DRAWING SET TO BE USED FOR RECORD PURPOSES. ALL REVISIONS MADE ON SITE DURING CONSTRUCTION TO BE ACCURATELY RECORDED.
 - 6.2. ELECTRICAL CONTRACTOR TO PRODUCE AT HIS OWN EXPENSE A SET OF AUTOCAD DRAWINGS INCLUDING ALL CHANGES TO THE ORIGINAL TENDER DRAWINGS COVERED BY ADDENDA, CHANGE ORDER, FIELD CHANGES, JOB CONDITIONS ETC., AND TURN THESE OVER TO THE CONTRACT ADMINISTRATOR IN ELECTRONIC AND HARD COPY FORM. COMPLETED RECORD DRAWINGS TO BE CLEARLY MARKED "RECORD DRAWINGS".
 - 6.3. SHOW ALL MAJOR, JUNCTION BOXES, CORE HOLES, CONDUIT HOME RUNS AND CIRCUIT NUMBERS ON AS-BUILT DRAWINGS.
 - 6.4. PROVIDE THREE COPIES OF MAINTENANCE MANUALS TO INCLUDE ALL NEW ELECTRICAL EQUIPMENT SUCH AS: LIGHT FIXTURES, EXIT LIGHTS, BATTERY UNITS, LIGHTING CONTROLS, PANELS, TRANSFORMERS.
 - 6.5. INCLUDE COPIES OF COMPUTER PRINTED PANEL DIRECTORIES FOR ALL PANELS.
 - 6.6. PROVIDE AS-BUILT DRAWINGS AND MANUALS TO BUILDING MANAGEMENT AT TIME OF COMPLETION. DRAWINGS AND MANUALS SHALL BE REVIEWED FOR ACCURACY BY CONTRACT ADMINISTRATOR AT COMPLETION.
 - 6.7. ELECTRICAL CONTRACTOR TO MAINTAIN DIGITAL PHOTOGRAPH RECORDS OF ALL ELECTRICAL INSTALLATION PRIOR TO CONCEALMENT. DIGITAL PHOTOGRAPHS TO HAVE LEGIBLE BUILDING REFERENCE POINTS FOR IDENTIFICATION. PROVIDE THE DIGITAL PHOTOGRAPHS AS PART OF THE AS-BUILT DRAWINGS IN ORIGINAL DIGITAL FORMAT.
7. SHOP DRAWINGS
 - 7.1. ELECTRICAL CONTRACTOR TO SUBMIT TO THE CONTRACT ADMINISTRATOR FOR REVIEW, SHOP DRAWINGS OF ELECTRICAL COMPONENTS INDICATED ON DRAWINGS IDENTIFIED AND TO INCLUDE ALL SPECIFIC SITE REQUIREMENTS & INSTALLATION REQUIREMENTS REQUIRED BY THE MANUFACTURER FOR THIS PROJECT.
 - 7.2. ALL DRAWINGS TO BE SUBMITTED IN ELECTRONIC FORMAT. ALLOW AT LEAST FOR TEN WORK DAYS

FOR SHOP DRAWINGS REVIEW.

- 7.3. CONTRACT ADMINISTRATOR'S REVIEW OF SHOP DRAWINGS TO BE FOR GENERAL DESIGN ONLY AND WILL NOT RELIEVE ELECTRICAL CONTRACTOR OR SUPPLIERS FROM RESPONSIBILITY FOR ERRORS, PROPER FITTING, CONSTRUCTION OF WORK AND FURNISHING OF MATERIALS. REVIEW WILL NOT BE CONSTRUED AS APPROVING DEPARTURES FROM CONTRACT DOCUMENT REQUIREMENTS IF SUCH DEPARTURES ARE NOT SPECIFICALLY NOTED. ELECTRICAL CONTRACTOR TO BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS.
- 7.4. ALL EXTRA COSTS ASSOCIATED WITH AN ALTERNATE PRODUCT THAT IS SPECIFIED IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. EXTRAS RESULTING FROM THE LACK OF AN ALTERNATIVE PRODUCT TO MATCH SPECIFIED PRODUCT WILL NOT BE CONSIDERED.
8. GUARANTEE WARRANTY
 - 8.1. FURNISH A WRITTEN GUARANTEE WARRANTY COUNTERSIGNED AND GUARANTEED BY GENERAL CONTRACT TRADE STATING:
 - 8.1.1. THAT ALL WORK EXECUTED UNDER THIS CONTRACT WILL BE FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.
 - 8.1.2. THE ABOVE PARTIES FURTHER AGREE TO, AT THEIR OWN EXPENSE, REPAIR AND REPLACE ALL SUCH DEFECTIVE WORK AND OTHER WORK DAMAGED THEREBY WHICH FAILS OR BECOMES DEFECTIVE DURING THE TERM OF GUARANTEE WARRANTY PROVIDED THAT SUCH FAILURE IS NOT DUE TO IMPROPER USAGE.
 - 8.1.3. PERIOD OF THE GUARANTEE SPECIFIED TO BE IN NO WAY SUPPLANT ANY OTHER GUARANTEE OF A LONGER PERIOD BUT BE BINDING ON WORK NOT OTHERWISE COVERED.
9. SETTING OUT OF THE WORK
 - 9.1. ELECTRICAL CONTRACTOR TO BE RESPONSIBLE FOR CORRECTING ALL WORK COMPLETED CONTRARY TO INTENT OF DRAWINGS AND SPECIFICATIONS AND BEAR ALL COST FOR THE SAME. WHERE INTENT OF DRAWINGS AND SPECIFICATIONS IS NOT CLEAR, OBTAIN CLARIFICATION BEFORE PROCEEDING WITH WORK.
 - 9.2. ELECTRICAL CONTRACTOR TO GIVE WORK HIS PERSONAL SUPERVISION LAY OUT HIS OWN WORK, DO ALL NECESSARY LEVELING AND MEASURING OR EMPLOY A COMPETENT CONTRACT ADMINISTRATOR TO DO SO, FIGURES, FULL SIZE AND DETAIL DRAWINGS TO TAKE PRECEDENT OVER SCALE MEASUREMENTS.
 - 9.3. WHERE ANY EQUIPMENT SUPPLIED BY ELECTRICAL CONTRACTOR MUST BE BUILT IN WITH WORK OF OTHER CONTRACTOR, THIS CONTRACTOR TO BE RESPONSIBLE FOR SUPPLYING THE EQUIPMENT TO BE BUILT IN OR MEASUREMENTS TO ALLOW NECESSARY OPENING TO BE LEFT SO AS NOT TO HOLD UP WORK.
 - 9.4. ELECTRICAL CONTRACTOR TO BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY THEM AND/OR BY ANY OTHER ELECTRICAL SUB-TRADE BY IMPROPER LOCATION OR CARRYING OUT OF HIS WORK
 - 9.5. ELECTRICAL CONTRACTOR IN SETTING OUT OF HIS WORK, TO MAKE REFERENCE TO ARCHITECTURAL, STRUCTURAL, AND MECHANICAL DRAWINGS. CONSULT WITH RESPECTIVE TRADES IN SETTING OUT LOCATIONS FOR CONDUIT RUNS, LIGHTING FIXTURES, PANEL ASSEMBLIES, AND THE LIKE, SO THAT CONFLICTS ARE AVOIDED AND SYMMETRICAL SPACING IS MAINTAINED.
 - 9.6. WHERE RECEPTACLES ARE MOUNTED ABOVE COUNTERS, BENCHES, SPLASHBACKS, AND THE LIKE, LOCATION AND MOUNTING HEIGHTS TO BE COORDINATED WITH BUILT-IN UNITS. REFER TO ARCHITECTURAL DETAILS. WHERE RECEPTACLES OCCUR IN OUTSIDE WALLS WHERE HEATING UNITS OCCUR, RECEPTACLE HEIGHT TO BE ADJUSTED TO COORDINATE WITH THE HEATING UNIT.
 - 9.7. ELECTRICAL CONTRACTOR TO COORDINATE ANY INTERRUPTIONS TO ADJOINING TENANTS IN ORDER TO AVOID ANY INCONVENIENCES TO SAID TENANT. IF NECESSARY ELECTRICAL CONTRACTOR TO DO ANY REQUIRED CONNECTIONS ON OFF HOURS.
 - 9.8. SWITCH MOUNTING HEIGHTS TO BE COORDINATED WITH ARCHITECTURAL DETAILS AND TO BE ADJUSTED IF REQUIRED, TO COORDINATE WITH PANELING, MASONRY COURSE LINES AND THE LIKE.
 - 9.9. WHERE OUTLETS OCCUR IN EXTERIOR WALLS, ELECTRICAL CONTRACTOR TO ENSURE THAT THERE IS INSULATION BEHIND THE OUTLET BOXES TO PREVENT CONDENSATION THROUGH THE BOXES.
10. EXAMINATION OF SITE
 - 10.1. PRIOR TO SUBMITTING TENDER, ELECTRICAL CONTRACTOR TO CAREFULLY EXAMINE THE SITE AND ASCERTAIN ALL CONDITIONS WHICH MAY AFFECT HIS TRADE. NO EXTRAS WILL BE ALLOWED FOR WORK RESULTING FROM CONDITIONS WHAT WOULD HAVE BEEN EVIDENT UPON A THROUGH EXAMINATION OF SITE.
11. CLEANUP
 - 11.1. ELECTRICAL CONTRACTOR AND HIS SUBTRADES AT ALL TIMES DURING CONSTRUCTION, KEEP SITE FREE OF ALL DEBRIS, BOXES, PACKING AND THE LIKE RESULTING FROM WORK OF THIS TRADE.
 - 11.2. UPON COMPLETION OF WORK, ELECTRICAL INSTALLATION TO BE LEFT IN A CLEAN AND FINISHED CONDITION TO SATISFACTION OF THE CONTRACT ADMINISTRATOR.
12. ACCESS DOORS
 - 12.1. ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL ACCESS DOORS REQUIRED FOR PROPER SERVICING OF ALL ELECTRICAL WORK. ACCESS DOORS TO BE COMPLETE WITH NECESSARY FRAMES AND HINGED DOORS HELD CLOSED WITH CAPTIVE STUDS. ACCESS PANELS TO BE OF NOT LESS THAN 14 GAUGE STEEL, PRIME COATED FINISHED AND PAINTED ON THE JOB TO MATCH THE WALL OR CEILING FINISH.
13. CODES, PERMITS AND INSPECTION
 - 13.1. INSTALLATION TO COMPLY WITH REQUIREMENTS OF BUILDING CODES AND CANADIAN ELECTRICAL CODE AND REGULATIONS OF THE INSPECTION DEPARTMENT.
 - 13.2. ELECTRICAL CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED AND AFTER COMPLETION OF THE WORK

FURNISH TO THE CONTRACT ADMINISTRATOR A CERTIFICATE OF FINAL INSPECTION AND APPROVAL FROM ELECTRICAL INSPECTION DEPARTMENT.

14. MECHANICAL EQUIPMENT

- 14.1. UNLESS OTHERWISE, ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL ALL CONDUIT AND WIRE, FITTINGS AND CONNECTIONS FOR ALL MECHANICAL EQUIPMENT. MOTOR PROTECTION SWITCHES COMPLETE WITH OVERLOAD RELAYS, AND OTHER REQUIRED PARTS TO COMPLETE THE JOB TO BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO CONFIRM WITH MECHANICAL TRADE SIZE, CHARACTERISTICS AND LOCATIONS OF ALL MECHANICAL EQUIPMENT BEFORE INSTALLATION OF CONDUIT, OUTLETS, HEATERS, AND THE LIKE. ELECTRICAL CONTRACTOR TO EXAMINE MECHANICAL DRAWINGS FOR ALL MECHANICAL EQUIPMENT REQUIRES ELECTRICAL CONTRACTOR RELATED INSTALLATIONS. NOT ALL MECHANICAL REQUIREMENT ARE NOTED ON ELECTRICAL DRAWINGS.

15. TESTS

- 15.1. ALL PORTIONS OF ELECTRICAL WORK TO BE TESTED AND CHECKED FOR SATISFACTORY INSTALLATION AND OPERATION. USE STANDARD INDUSTRY FORMS. PRESENT TEST RECORDS TO THE CONTRACT ADMINISTRATOR UPON REQUEST.
- 15.2. BEFORE ENERGIZING ANY PORTION OF ELECTRICAL SYSTEM, PERFORM MEGGER TESTS ON ALL FEEDERS AND BRANCH CIRCUITS. RESULTS OF SUCH TESTS TO CONFORM TO REQUIREMENTS OF CANADIAN ELECTRICAL CODE AND BE TO SATISFACTION OF AUTHORIZED INSPECTION AGENCY AND THE CONTRACT ADMINISTRATOR. KEEP DATED TEST LOGS AND PRESENT TO THE CONTRACT ADMINISTRATOR UPON REQUEST.
- 15.3. UPON COMPLETION AND IMMEDIATELY PRIOR TO FINAL INSPECTION AND TAKEOVER, CHECK LOAD BALANCE ON ALL FEEDERS AND AL DISTRIBUTION CENTERS, PANELS, AND THE LIKE. TEST TO BE CARRIED OUT BY TURNING ON ALL POSSIBLE LOADS AND CHECKING LOAD CURRENT BALANCE. IF LOAD UNBALANCE EXCEEDS 15% RECONNECT CIRCUITS TO BALANCE LOAD.

16. COMMISSIONING

- 16.1. PLAN, ORGANIZE, AND HIRE A THIRD PARTY TO IMPLEMENT A CONTRACTOR PREPARED COMMISSIONING PLAN WITH A DEFINED SCHEDULE FOR ALL ELECTRICAL AND RELATED MECHANICAL SYSTEMS.
- 16.2. COMMISSIONING PLAN SHALL INCLUDE AS MINIMUM THE FOLLOWING: INSTALLATION CHECKLISTS, START-UP CHECKLISTS, VERIFICATION, SHEETS AND INTEGRATED TESTING TESTING SHEETS.
- 16.3. SUPPLY COMPLETE INSTRUCTIONS AND INFORMATION RELATING TO THE OPERATION AND MAINTENANCE OF ALL EQUIPMENT AND SYSTEMS.
- 16.4. DELIVER A SYSTEM WHICH PERFORMS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND EQUIPMENT MANUFACTURER'S REQUIREMENTS.

17. PAINTING AND FINISHES

- 17.1. ALL ELECTRICAL FITTINGS, SUPPORT, HANGER RODS, PULLBOXES, CHANNEL FRAMES, CONDUIT RACKS, OUTLET BOXES, BRACKETS, CLAMPS AND ALL OTHER SIMILAR COMPONENTS OF THE ELECTRICAL INSTALLATION TO HAVE GALVANIZED FINISH OR PAINT FINISH OVER CORROSION-RESISTANCE PRIMER.
- 17.2. ALL PANEL TO BE FACTORY FINISHED WITH SPRAY-ON AIR DRAY ENAMEL. ALL ENAMEL TO BE APPLIED OVER CORROSION-RESISTANCE PRIMER. MATT OR FLAT TYPE FINISH PAINT WILL NOT BE ACCEPTED. ALL PANELS OR SIMILAR FACTORY FINISHED UNITS THAT ARE SCRATCHED OR MARKED DURING INSTALLATION TO BE TOUCHED UP WITH MATCHING SPRY-ON AIR DRY LACQUER AND IF REQUIRED TO PROVIDE SATISFACTORY JOB TO BE COMPLETELY REFINISHED.
- 17.3. ALL PANELBOARDS, PULLBOXES AND THE LIKE TO BE FINISHED IN GRAY ENAMEL.
- 17.4. PULLBOXES, JUNCTIONBOXES, TERMINAL PANELS, AND THE LIKE TO BE FINISHED IN ACCORDANCE WITH EXISTING BUILDING.

18. CONDUIT

- 18.1. ALL WIRE AND CABLE TO BE INSTALLED IN CONDUIT EXCEPT WHERE IS NOTED OTHERWISE ON THE DRAWINGS. BX WIRING MAY BE UTILIZED FOR DROPS FROM JUNCTION BOXES TO OUTLETS AND LIGHTS NOT TO EXCEED 30 FEET IN LENGTH.
- 18.2. CONDUIT TO BE ELECTRIC METALLIC TUBING, UTILIZE RIGID GALVANIZED STEEL CONDUIT FOR ALL EXPOSED RUNS OUTDOOR ABOVE GRADE AND WHERE IN JUDGMENT BY THE ELECTRICAL INSPECTION AUTHORITY IS SUBJECT TO MECHANICAL DAMAGE.
- 18.3. PROVIDE HEAVY WALL RIGID PVC CONDUIT FOR BURIED AND FOR BELOW GRADE INSTALLATIONS AND IN CONCRETE.
- 18.4. SURFACE MOUNTED CONDUITS TO BE INSTALLED PARALLEL OR PERPENDICULAR TO STRUCTURAL LINES AND WHERE BENDS OCCUR FOR PARALLEL RUNS, THEY SHALL BE CONCENTRIC.
- 18.5. CONDUITS TO BE INSTALLED FREE FROM DENTS AND HAVE ENDS PLUGGED TO PREVENT ENTRANCE OF DUST OR MOISTURE.
- 18.6. ALL CONDUITS, EXCEPT WHERE OTHERWISE TO BE SIZED IN ACCORDANCE WITH CANADIAN ELECTRICAL CODE.
- 18.7. FLEXIBLE CONDUIT CONNECTIONS TO MOTORS, CONTROLS, AND THE LIKE TO BE FLEXIBLE PLASTIC JACKETED, SEAL TIGHT OR APPROVED EQUAL. FLEXIBLE CONDUIT CONNECTIONS ARE REQUIRED TO ALL MOTORS FROM STUB-UP OR JUNCTION BOXES.
- 18.8. APPROPRIATE AND COORDINATED METAL TYPE FITTINGS TO BE USED WITH CONDUITS.
- 18.9. SUPPLY & INSTALL FLEXIBLE CONDUIT CONNECTIONS FOR PRIMARY AND SECONDARY FEEDS TO DRY TYPE TRANSFORMERS TO REDUCE NOISE TRANSMISSION.

19. EXPANSION JOINTS

- 19.1. WHERE CONDUITS ARE INSTALLED IN CONCRETE SLABS AND CROSS STRUCTURAL EXPANSION JOINTS,

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AN APPROVED EXPANSION FITTING COMPLETE WITH BONDING JUMPER AND CLAMPS SHALL BE INSTALLED. ELECTRICAL CONTRACTOR TO USE APPROVED EXPANSION JOINTS.

20. WIRE AND CABLE

- 20.1. ALL BUILDING WIRING TO BE APPROVED COPPER OR ALUMINUM.
- 20.2. MINIMUM CONDUCTOR SIZE IS #12 AWG TO BE USED.
- 20.3. SMALL CONDUCTORS FOR CONTROL OR LOW VOLTAGE WORK TO BE USED WHERE CALLED FOR ON DRAWINGS OR IN SPECIFICATIONS.
- 20.4. ALL CONDUCTORS TO BE COLOR CODED THROUGHOUT IN ACCORDANCE WITH THE FOLLOWING TO MATCH EXISTING:
 - EQUIPMENT GROUNDING CONDUCTOR – GREEN
 - NEUTRAL CONDUCTOR – WHITE
 - 120/208 VOLTS PHASE WIRES – RED, BLACK, AND BLUE

21. OUTLET BOXES

- 21.1. BOXES: HOT DIP GALVANIZED, CONFORMING TO CSA REQUIREMENTS.
- 21.2. USE CEILING FIXTURE BOX WITH CEILING GRID BRACKET FOR ALL INSTALLATIONS IN CEILING GRIDS.
- 21.3. BOXES FOR CEILING: #54151 OR #72171 OR SIMILAR APPROVED.
- 21.4. BOXES FOR INDOOR SURFACE MOUNTED EQUIPMENT, USE 4 INCH SQUARE #52151, #52171, #58361 OR SIMILAR APPROVED WITH APPROVED COVERS.
- 21.5. ALL OUTLET BOXES TO BE FLUSH MOUNTED EXCEPT AS SPECIFIED.
- 21.6. NO DRYWALL PLATES, PLASTER PLATES, BOXES WITH OPEN BACK, SECTIONAL, OR HANDY BOXES ALLOWED.

22. LOCATION OF OUTLETS

- 22.1. THE CONTRACT ADMINISTRATOR RESERVES THE RIGHT TO CHANGE LOCATION OF OUTLETS TO WITHIN THREE METERS OF POINTS INDICATED ON THE PLANS WITHOUT EXTRA CHARGE PROVIDING CONTRACTOR IS ADVISED BEFORE INSTALLATION IS MADE.
- 22.2. ELECTRICAL CONTRACTOR TO REFER TO ARCHITECTURAL ROOM ELEVATIONS FOR POSITION, AND MOUNTING HEIGHTS OF ALL OUTLETS, SWITCHES, INTERCOMMUNICATIONS, TELEPHONES, SPEAKERS, CLOCKS, AND THE LIKE. POSITIONS SHOWN ON ARCHITECTURAL PLANS TO TAKE PRECEDENCE OVER POSITIONS OR MOUNTING HEIGHTS SHOWN ON ELECTRICAL PLANS.

23. PULLBOXES

- 23.1. SUPPLY AND INSTALL PULLBOXES AS REQUIRED TO SUIT JOB CONDITIONS. PULLBOXES TO CONFORM TO CANADIAN ELECTRICAL CODE AND BE FINISHED IN ENAMEL OVER CORROSION-RESISTANCE PRIMER WITH SCREW-ON OR HINGED COVER. IN REMOVABLE CEILING AREAS, PULLBOXES ARE TO BE INSTALLED ABOVE THE CEILING. PULLBOXES IN FINISHED WALLS AND PLASTER OR NON-REMOVABLE CEILINGS TO HAVE OVERLAPPING TYPE TRIM WITH COVERS PRIME COATED AND PAINTED ON JOB TO MATCH WALL OR CEILING FINISH.

24. SWITCHES AND RECEPTACLES

- 24.1. LINE VOLTAGE SWITCHES TO BE RATED 15A, 125 VOLTS, OF MATCHING FINISH TO SURROUNDING, EXCEPT WHEN NOTED. TWO POLE, THREE WAY, FOUR WAY SWITCHES TO BE OF MATCHING TYPE.
- 24.2. STANDARD RECEPTACLES TO MATCH EXISTING OR EQUAL.
- 24.3. ISOLATED GROUND RECEPTACLES TO BE THREE WIRE, ORANGE FACE, STRAIGHT BLADE, COVER PLATE TO BE OF IMPACT RESISTANCE OF MATCHING FINISH TO SURROUNDING, EXCEPT WHEN NOTED.
- 24.4. PLATES FOR ALL FLUSH MOUNTING DEVICES TO BE OF THERMOPLASTIC WITH MATCHING FINISH TO SURROUNDING, EXCEPT WHEN NOTED.
- 24.5. PROVIDE LABELS FOR ALL RECEPTACLES.
- 24.6. FOR ALL RECEPTACLES OTHER THAN STANDARD 15A DUPLEX RECEPTACLES, PROVIDE TAGS GIVING AMP RATING, PHASE, AND VOLTAGE.

25. SUPPORTS

- 25.1. ALL SURFACE CONDUITS, ELECTRICAL EQUIPMENT, AND THE LIKE TO BE SECURELY AND ADEQUATELY SUPPORTED.
- 25.2. CABLES INSTALLED ON ROOF SHALL BE INSTALLED MECHANICALLY SECURED & SUPPORTED TO CABLE TRAY SYSTEM. SECURING CABLES TO ROOF RUBBER BLOCKS DIRECTLY IS NOT AN ACCEPTABLE MECHANICAL SUPPORT MEANS.
- 25.3. WHERE INSERTS ARE REQUIRED IN CONCRETE, EXPANSION INSERTS, LEAD INSERTS OR PLASTIC INSERTS TO BE USED IN DRILLED HOLES. SHORT DRIVEN PINS MAY BE USED IN STRUCTURAL CONCRETE ONLY WITH THE PERMISSION OF THE CONTRACT ADMINISTRATOR.
- 25.4. ELECTRICAL CONTRACTOR TO RETAIN THE SERVICES OF STRUCTURAL CONTRACT ADMINISTRATOR LICENCE IN THE PROVINCE OF THE PROJECT TO REVIEW & TO DESIGN SUPPORTS FOR ANY ELECTRICAL ITEMS HUNG FROM CEILING. PROVIDE CERTIFICATION LETTER FROM DESIGN CONTRACT ADMINISTRATOR HEREIN AFTER WORK COMPLETION.
- 25.5. SUPPLY & INSTALL ADEQUATE SOLID BACKING IN WALLS TO EXTEND AT LEAST TWO TIMES THE SQUARE AREA OF THE MOUNTING SURFACE OF THE FIXTURE INSTALLED FOR WALL MOUNTED EQUIPMENT.

26. GROUNDING

- 26.1. SUPPLY AND INSTALL COMPLETE GROUNDING SYSTEM AS REQUIRED BY THE CANADIAN ELECTRICAL CODE AND THE ELECTRICAL INSPECTION DEPARTMENT. ALL COMPONENTS TO BE SECURELY AND ADEQUATELY GROUNDED AND WHERE REQUIRED TO ACCOMPLISH THIS, GROUNDING JUMPERS, GROUNDING STUDS AND BUSHING TO BE USED.
- 26.2. PROVIDE AN UN-INSULATED ISOLATED GROUND BUS IN NEW ELECTRICAL PANEL AND PROVIDE A #6 AWG INSULATED ISOLATED GREEN GROUND WIRE FROM ISOLATED GROUND BUS TO MAIN GROUND BUS IN BUILDING ELECTRICAL ROOM.

- 26.3. PROVIDE A #12 INSULATED ISOLATED GREEN GROUND WIRE FROM EACH ISOLATED GROUND OUTLET TO INSULATED ISOLATED GREEN GROUND BUS IN PANEL.
- 26.4. PROVIDE BONDING JUMPER ACROSS WATER METER.
- 26.5. ALL GROUND RODS SHALL BE INSTALLED IN LISTED PVC GROUND TEST WELL INSTALLED PER MANUFACTURER SPECIFICATIONS.

27. PANELS

- 27.1. NEW PANELS TO BE 120/208 VOLTS, 347/600 VOLTS, OR AS NOTED, 4 WIRE, SOLID NEUTRAL DESIGN WITH SEQUENCE STYLE BUSSING AND FULL CAPACITY NEUTRAL, COMPOSED OF AN ASSEMBLY OF BOLT IN PLACE TO ACCEPT MOLDED CASE CIRCUIT BREAKERS AS INDICATED WITH THERMAL AND MAGNETIC TRIP AND TRIP FREE POSITIONS SEPARATE FROM EITHER THE ON OR THE OFF POSITION. TWO AND THREE POLE BREAKERS TO HAVE A COMMON SIMULTANEOUS TRIP.
- 27.2. UTILIZE EXISTING PANELBOARDS AS INDICATED ON THE DRAWING. REUSE EXISTING BREAKERS WHERE IS POSSIBLE. PROVIDE NEW BREAKERS AS REQUIRED (FOR PROJECTS WITH EXISTING ELECTRICAL SERVICE AND DISTRIBUTION).
- 27.3. BALANCE PANEL LOAD FOR EACH PHASES, A, B, AND C. ALLOW FOR RELOCATING CIRCUITS WITHIN PANELBOARDS TO BALANCE THE LOAD.
- 27.4. PROVIDE COMPUTER PRINTED PANEL DIRECTORIES FOR ALL PANELS.
- 27.5. USE AFCI (ARC FAULT CIRCUIT INTERRUPTER) CIRCUIT BREAKERS FOR SLEEPING AREA CIRCUITS.

28. LIGHTING LUMINARIES AND LIGHTING CONTROLS

- 28.1. ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL ALL LIGHTING LUMINARIES COMPLETE WITH LAMPS, MOUNTING BRACKETS, BALLASTS AND ALL NECESSARY ACCESSORIES IN ACCORDANCE WITH THE LUMINARIES TYPES SHOWN.
- 28.2. ALL LIGHT FIXTURES' COLOR TEMPERATURE SHALL BE CONSISTENT.
- 28.3. ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL ALL LIGHTING CONTROLS WITH LINE VOLTAGE SWITCHES, DIMMER SWITCHES (RATED 1500 WATT), LOW VOLTAGE DIMMER SWITCHES, LOW VOLTAGE SWITCHES, LIGHTING RELAYS, BARRIER AND ALL CONTROL WIRING AND COMPONENTS TO SUIT THE LAYOUT. ALL MATERIAL AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATION OF THE MANUFACTURER AND COMPLY WITH CODES.
- 28.4. LOW VOLTAGE MASTER SWITCHES AND BUILDING LIGHTING CONTROL SHALL HAVE THE CAPABILITY TO TURN ON AND OFF ALL LIGHTING (120 AND 347 VOLTS) WITH THE EXCEPTION OF LUMINARIES ON EMERGENCY LIGHTING CIRCUITS OR UN-SWITCHED NIGHT LIGHT CIRCUITS.
- 28.5. COORDINATE LIGHTING CONTROL PROGRAMMING WITH THE BUILDING SUPERVISOR.
- 28.6. ALL LIGHTING RELAYS SHALL BE LOCATED IN THE ELECTRICAL ROOM. PROVIDE NEW RELAY CABINET AS REQUIRED TO SUIT LAYOUT.
- 28.7. INSTALL OUTDOOR LIGHTING LUMINARIES TO BE CONTROLLED BY ASTRONOMICAL TIME-LOCK AND PHOTO SWITCH.
- 28.8. LIGHT STANDARD CONCRETE BASES, WHERE LIGHT STANDARD SPECIFIED, ARE TO BE PROVIDED BY GENERAL CONTRACTOR, WITH CONDUIT EMERGING FROM CENTER OF BASE.
- 28.9. LED LIGHT FIXTURES SHALL CARRY A MANUFACTURER WARRANTY FOR FIVE YEARS AT MINIMUM STARTING ONE DAY AFTER THE DATE OF THE FINAL CONTRACT ADMINISTRATOR'S CERTIFICATION LETTER.

29. EXIT LIGHTING AND EMERGENCY LIGHTING

- 29.1. PROVIDE NEW EXIT LIGHTS TO MATCH BUILDING STANDARD, EMERGENCY BATTERY UNITS, EMERGENCY REMOTE HEADS AND CONNECT LUMINARIES TO EMERGENCY LIGHTING CIRCUIT AS SHOWN ON THE DRAWINGS.
- 29.2. EMERGENCY BATTERY SHALL HAVE A FULL LOAD CAPACITY OF A PERIOD OF MINIMUM 30 MINUTES UNLESS IT IS SPECIFIED OTHERWISE ON THE DRAWINGS.
- 29.3. CHECK CIRCUIT LOADING OF ALL LIGHTING CIRCUITS AND EXIT LIGHTING CIRCUITS PRIOR TO CONNECTION. PROVIDE NEW CIRCUITS IF REQUIRED.
- 29.4. EMERGENCY LIGHTING SHALL BE INTERLOCKED WITH SPACE LIGHTING IN AREA OF SERVICE. PROVIDE VOLTAGE SENSING RELAY UNITS OR OTHER MEANS OF INTERLOCK ACCEPTABLE TO THE CONTRACT ADMINISTRATOR.

30. FIRE ALARM SYSTEM

- 30.1. PROVIDE NEW DEVICES OR RELOCATE EXISTING DEVICES AS SPECIFIED FOR A COMPLETE OPERATING FIRE ALARM SYSTEM AS REQUIRED BY CODE OR SHOWN ON THE DRAWINGS.
- 30.2. MANUAL PULL STATIONS WITH GLASS RODS USED AS PULL HANDLE RESTRAIN ARE NOT ACCEPTABLE.
- 30.3. LOCATE STROBE LIGHTS TO OBTAIN GREATEST VISIBILITY IN THE SPACE. USE ADDITIONAL STROBE LIGHTS TO ACHIEVE VISIBILITY.
- 30.4. USE LOOP ISOLATORS TO MAINTAIN/PROTECT THE CONTINUITY OF THE FIRE ALARM DETECTION CIRCUIT.
- 30.5. INSTALL FIRE ALARM DETECTORS IN THE OPTIMUM LOCATION TO ACHIEVE THE BEST DETECTION.
- 30.6. UPON COMPLETION OF SYSTEM MODIFICATIONS, ELECTRICAL CONTRACTOR TO HIRE BASE BUILDING FIRE ALARM CONTRACTOR TO PERFORM SYSTEM VERIFICATION, ENCOMPASSING ALL REVISIONS TO THE FIRE ALARM SYSTEM.
- 30.7. FIRE ALARM INSTALLATION TO COMPLY WITH CSA-S524-06 & VERIFIED TO CSA-S537-04.
- 30.8. INCLUDE AND PAY FOR INTEGRATED SYSTEMS TESTING OF ALL FIRE PROTECTION AND ALL LIFE SAFETY SYSTEMS IN THE CONTRACT PER CAN/ULC-S1001 INCLUDING PREPARATION OF TESTING PLAN. SUBMIT PLAN FOR CONTRACT ADMINISTRATOR'S REVIEW PRIOR TO TESTING COMMENCEMENT.

31. COMMUNICATION/DATA

- 31.1. PROVIDE OUTLET BOXES AND EMPTY CONDUITS WITH PULL STRING FOR COMMUNICATION OUTLETS AS SHOWN AND NOTED ON THE DRAWINGS.
- 31.2. INSTALL 1 INCH CONDUIT FROM EACH COMMUNICATION OUTLET -PHONE/CABLE/ETHERNET- TO COMMUNICATION BOARD/DEMARICATION POINT/NETWORK SERVER.
- 31.3. USE J-HOOKS IN ACCESSIBLE CEILING SPACES ONLY WHEN PERMITTED BY THE CONTRACT ADMINISTRATOR, USE CONDUITS IN CONCEALED SPACES OR TO PASS THROUGH PARTITIONS/WALLS.
- 31.4. WHERE WIRING IS INCLUDED IN CONTRACT, TESTING OF ALL WIRING SHALL BE DOCUMENTED AND PRESENTED TO THE CONTRACT ADMINISTRATOR UPON REQUEST.

32. EQUIPMENT IDENTIFICATION

- 32.1. PROVIDE COMPUTER PRINTED LABELS OR LAMACOID ENGRAVED PLATES IN INDUSTRY ACCEPTABLE STANDARDS TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR TO BE SUITABLE FOR INSTALLATION ENVIRONMENT.
- 32.2. IDENTIFICATION TO BE AFFIXED TO EQUIPMENT, PANELS, SAFETY AND DISCONNECT SWITCHES, TRANSFORMERS, PULL BOXES, TERMINAL CABINETS, BATTERY BANKS, RECEPTACLES, AND ALL OTHER EQUIPMENT ON THE DRAWINGS.
- 32.3. IDENTIFICATION WORDING TO BE APPROVED BY THE CONTRACT ADMINISTRATOR PRIOR TO PRINTING OR PRIOR TO ORDER.

33. GENERAL

- 33.1. COORDINATE AND GET APPROVAL FROM BUILDING OWNER OR HIS REPRESENTATIVE FOR ALL CORING AND CUTTING OF BUILDING STRUCTURE. X-RAY AND COORDINATE LOCATION ON SITE PRIOR TO CORING.
- 33.2. CLEAN UP AND REMOVE ALL UNUSED WIRING AND CONDUITS.
- 33.3. REWIRE EXISTING LIGHTING AND POWER THAT ARE AFFECTED BY THIS CONSTRUCTION.
- 33.4. ALLOW AFTER HOUR WORK AND PROVIDE TEMPORARY POWER AND LIGHTING TO SUIT CONSTRUCTIONS SCHEDULE AND PHASES.
- 33.5. CONFIRM OUTLET LOCATIONS AND MOUNTING HEIGHT WITH PROJECT COORDINATOR ON SITE PRIOR TO INSTALLATION.
- 33.6. FIRE PROOF ALL FIRE RATED PENETRATIONS AFTER INSTALLATION TO COMPLY WITH CODES AND TO PROVIDE EQUAL FIRE SEPARATION RATING.
- 33.7. ELECTRICAL EQUIPMENT INSTALLED IN SPRINKLERED BUILDING SHALL BE COMPLETE WITH DRIP PROOF HOOD.
- 33.8. ELECTRICAL CONTRACTOR TO REPAIR TO FULLY WORKING CONDITION ANY ELECTRICAL INSTALLATION AFFECTED BY THIS CONTRACT (FOR WORK IN OR ADJACENT TO EXISTING BUILDINGS.)
- 33.9. INSTALL BASEBOARD HEATERS 4" ABOVE FINISH FLOOR LEVEL.
- 33.10. SUPPLY & INSTALL 3/4" PLYWOOD C/W FIRE RETARDANT PAINT BEHIND ELECTRICAL PANEL & FOR COMMUNICATION BOARD. INCLUDE PAINT MANUFACTURER CERTIFICATE OF COMPLIANCE AS PART OF O&M MANUAL.
- 33.11. ELECTRICAL CONTRACTOR TO SUPPLY & INSTALL PAINT & MUD PROTECTION FOR ELECTRICAL ROUGH-IN INSTALLATIONS INCLUDING WIRES, BOXES, AND THE LIKE.
- 33.12. INSTALL ELECTRICAL WIRING AND CONNECTIONS FOR POWER DOOR OPERATORS AS SPECIFIED ON PROJECT DRAWINGS. COORDINATE WITH MANUFACTURER AND SUPPLIER.
- 33.13. CAULK ALL PENETRATIONS IN ASSEMBLIES USED FOR ELECTRICAL INSTALLATION TO RESTORE COMPARABLE FINISH AND TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.

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COPY RIGHT RESERVED:
THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING - ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO IBASA ENTERPRISES INC.
THE COPYRIGHTS TO ALL DESIGNS AND DRAWINGS ARE THE PROPERTY OF IBASA ENTERPRISES INC. REPRODUCTION OR USE FOR ANY PURPOSE OTHER THAN THAT AUTHORIZED BY IBASA ENTERPRISES INC. IS FORBIDDEN.

E				
D RE-ISSUED FOR CONSTRUCTION	AK	AK	21	02 26
C RE-ISSUED FOR CONSTRUCTION	AK	AK	21	02 04
B ISSUED FOR CONSTRUCTION	AK	AK	21	01 30
A ISSUED FOR REVIEW	AK	AK	21	01 21
ISSUED	BY	APPR.	DATE	

SEAL:

APEGM
Certificate of Authorization
Ibasa Enterprises Inc.
No. 5474 Expiry: April 30, 2021



CLIENT: BRIDGMAN COLLABORATIVE ARCHITECTURE
678 MAIN STREET
WINNIPEG, MB R3B 1E4
(204)488-3857
PROJECT TITLE: LOO LOO WINNIPEG
715 MAIN ST., WINNIPEG, MB
BID OPPORTUNITY 54-2021

SHEET TITLE: INSTALLATION SPECIFICATIONS-PART 2
PROJECT NO: 201231
SCALE: NTS
DESIGNED BY: AK
DRAWN BY: AK
REVIEWED BY: AK

SHEET NO:

E08.2

GENERAL NOTES

- THIS SET OF DRAWINGS SHOWS THE COMPLETED PROJECT. IT IS TO BE READ IN CONJUNCTION WITH THE NON-STRUCTURAL DRAWING SETS. IT DOES NOT INCLUDE COMPONENTS THAT MAY BE NECESSARY FOR CONSTRUCTION SAFETY. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY IN AND ABOUT THE JOB SITE DURING CONSTRUCTION, AND THE DESIGN AND ERECTION OF ALL TEMPORARY STRUCTURES. FORM WORK, FALSE WORK, SHORING, ETC. REQUIRED TO COMPLETE THE WORK.
- THE USE OF THESE DRAWINGS IS LIMITED TO THAT IDENTIFIED IN THE REVISIONS COLUMN. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION" IN THE REVISIONS COLUMN BY CONTRACT ADMINISTRATOR.
- THE INFORMATION ON THIS DRAWING SHALL NOT BE USED FOR ANYTHING OTHER THAN THE SPECIFIED WORKS OR PART OF THE WORKS FOR WHICH IT HAS BEEN AUTHORIZED BY CONTRACT ADMINISTRATOR.
- SEE ARCHITECTURAL DRAWINGS FOR FLOOR AND ROOF ELEVATIONS, RECESSES, DRAINAGE SLOPES, DETAILED DIMENSIONS FOR DOORS, WINDOWS AND OTHER OPENINGS ETC.
- SEE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SLEEVES, NAILERS, INSERTS, ETC. TO BE ENCASED IN CONCRETE.
- THE CONTRACTOR SHALL REVIEW ALL THE DRAWINGS AND CHECK DIMENSIONS BEFORE CONSTRUCTION. REPORT DISCREPANCIES BETWEEN STRUCTURAL AND OTHER DISCIPLINES DRAWINGS FOR CLARIFICATION.
- THE CONTRACTOR SHALL REPORT ANY SITE MODIFICATIONS MADE DURING CONSTRUCTION, THAT DIFFER FROM THE STRUCTURAL DRAWINGS, TO CONTRACT ADMINISTRATOR FOR REVIEW
- DO NOT CUT OR DRILL ANY OPENINGS IN STRUCTURAL MEMBERS WITHOUT THE WRITTEN PERMISSION OF CONTRACT ADMINISTRATOR. CONTRACTOR TO PROVIDE APPROPRIATE ATTACHMENTS AND CONNECTIONS FOR MECHANICAL, ELECTRICAL, AND OTHER SERVICES WITHOUT CUTTING OR DRILLING.
- REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL DRAWINGS FOR LOCATIONS, CONFIGURATIONS, EXTENT, AND SIZES OF ALL CURBS, UPSTANDS, DOWNTURNS: AND FOR OPENINGS THROUGH FLOORS AND WALLS FOR DUCTS.
- FIRE RESISTANCE RATINGS: SEE ARCHITECTURAL DRAWINGS AND SPECIFICATION FOR PRECISE LOCATIONS OF REQUIRED FIRE RESISTANCE RATINGS.
- THE CONTRACTOR SHALL BE FAMILIAR WITH THE CONTENT AND RECOMMENDATIONS OF THE GEOTECHNICAL REPORTS.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURAL COMPONENTS TO CONTRACT ADMINISTRATOR FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS ARE TO INCLUDE SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER, REGISTERED IN THE PROJECT PROVINCE, FOR DESIGN OF COMPONENTS AND/OR CONNECTIONS AS REQUIRED.

OWNERSHIP AND COPYRIGHT RESERVED

- ALL DRAWINGS, PLANS, MODELS, DESIGNS, SPECIFICATIONS AND OTHER DOCUMENTS PREPARED BY CONTRACT ADMINISTRATOR AND USED IN CONNECTION WITH THE PROJECT ARE INSTRUMENTS OF SERVICE FOR THE EXECUTION OF THE PROJECT, AND ARE AND REMAIN THE PROPERTY OF CONTRACT ADMINISTRATOR, WHETHER THE PROJECT IS EXECUTED OR NOT, AND CONTRACT ADMINISTRATOR RESERVES THE COPYRIGHT THEREIN AND IN THE WORK EXECUTED THEREFROM: SHALL NOT BE USED FOR ANY OTHER PROJECT. EXCEPT ONLY FOR GENERAL REFERENCE PURPOSES FOR ADDITION OF ALTERATION TO THE WORK SHOWN IN THEM, AND SINCE SUCH DOCUMENTS ARE "DESIGN" DOCUMENTS ONLY AND MAY NOT REPRESENT THE ACTUAL PROJECT "AS CONSTRUCTED", USE OF THESE DOCUMENTS FOR GENERAL REFERENCE PURPOSES IS AT THE SOLE RISK OF THE PARTY USING THEM: THEY SHALL NOT BE COPIED WITHOUT THE WRITTEN CONSENT OF AN AUTHORIZED REPRESENTATIVE OF CONTRACT ADMINISTRATOR.

LIST OF STRUCTURAL DRAWINGS

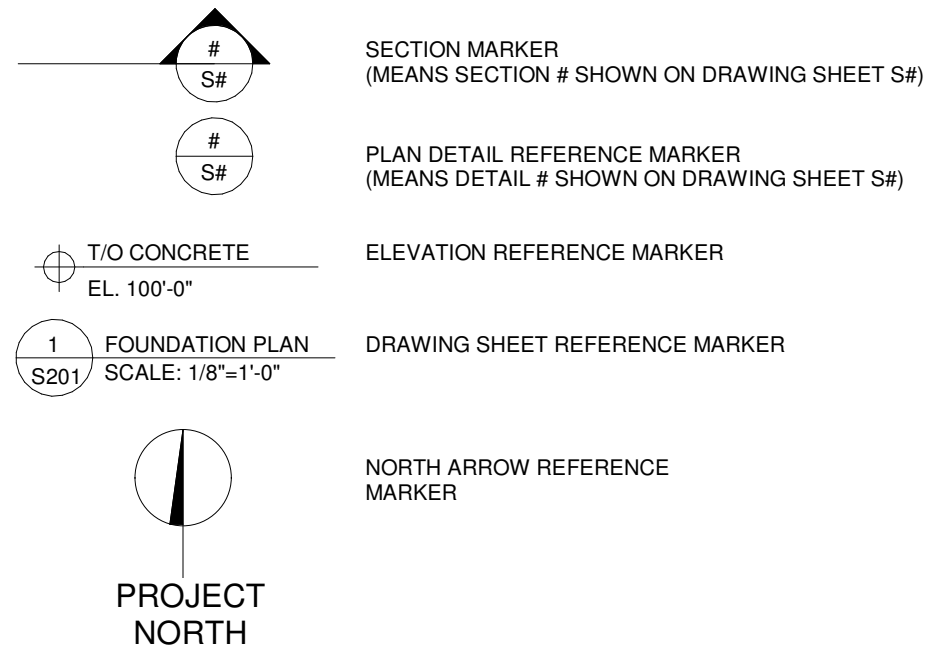
Sheet No.	Sheet Name	Sheet No.	Sheet Name
S001	GENERAL NOTES - PAGE 1	S301	BUILDING SECTIONS
S002	GENERAL NOTES - PAGE 2	S302	SECTION - GRID A INTERIOR
S101	FOUNDATION FRAMING PLAN	S303	SECTION - GRID B - MECH.
S102	MAIN FLOOR FRAMING PLAN	S304	SECTION - GRID B - SINKS
S103	SECOND LEVEL FRAMING PLAN	S305	SECTION -GRID C - OFFICE
S104	THIRD LEVEL FRAMING PLAN	S401	SECTIONS AND DETAILS
S105	ROOF FRAMING PLAN	S402	SECTIONS AND DETAILS
S106	SITE CONCRETE PLAN	S403	SECTIONS AND DETAILS
S201	NORTH ELEVATION	S901	SECTIONS AND 3D DETAILS
S202	SOUTH ELEVATION	S902	3-D DETAILS
S203	EAST AND WEST ELEVATIONS		

ABBREVIATIONS

ALT	ALTERNATE
BOT	BOTTOM
BR	BRACKET
BTW	BETWEEN
B/W	BOTH WAYS
BLL	BOTTOM LOWER LAYER
BUL	BOTTOM UPPER LAYER
C/W	COMPLETE WITH
CL	CENTRELINE
C/C	CENTRE TO CENTRE
CIP	CAST IN PLACE
CMU	CONCRETE MASONRY UNIT
DL	DEAD LOAD
LL	LIVE LOAD
SL	SNOW LOAD
E/E	EACH END
E/F	EACH FACE
E/S	EACH SIDE
E/W	EACH WAY
H1E	HOOK ONE END
H2E	HOOK TWO ENDS
H & V	HORIZONTAL AND VERTICAL
HOR	HORIZONTAL

GALV	HOT DIPPED GALVANIZED
MAX.	MAXIMUM
MIN.	MINIMUM
N.T.S.	NOT TO SCALE
O/C	ON CENTER
R/W	REINFORCED WITH
S.D.L.	SUPERIMPOSED DEAD LOAD
SIM.	SIMILAR
S.O.G.	SLAB ON GRADE
STAG.	STAGGER
S.J.	STRUT JOIST
TLL	TOP LOWER LAYER
TUL	TOP UPPER LAYER
TYP.	TYPICAL
T/O	TOP OF
T1E	TIE ONE END
T & B	TOP AND BOTTOM
T & C	TENSION AND COMPRESSION
U.N.O.	UNLESS NOTED OTHERWISE
U/S	UNDER SIDE OF
VERT.	VERTICAL
OSF	OUTSIDE FACE
ISF	INSIDE FACE

SYMBOL LEGEND



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715 MAIN STREET PUBLIC TOILET

THE CITY OF WINNIPEG

BID OPPORTUNITY 54-2021

No.	Description	Date
1	ISSUED FOR CONSTRUCTION	21-03-04

GENERAL NOTES - PAGE 1

Project number	20-104	S001
Date	2021-03-04	
Drawn by	DP	
Checked by	DP	
		Scale 1 : 100

DESIGN CRITERIA

THE DESIGN OF THE STRUCTURE IS IN ACCORDANCE WITH PART 4 OF DIVISION B, NBCC 2010 AND THE 2011 MANITOBA BUILDING CODE AMENDMENTS.
IMPORTANCE CATEGORY NORMAL
SNOW DESIGN DATA $S_s = 1.9 \text{ kPa}$ $S_r = 0.2 \text{ kPa}$ $I_s = 1.0 \text{ ULS} / 0.9 \text{ SLS}$
WIND DESIGN DATA $0.45 \text{ kPa } q(1/50)$ $0.35 \text{ kPa } q(1/10)$ $I_w = 1.0 \text{ ULS} / 0.75 \text{ SLS}$
SITE CLASSIFICATION FOR SEISMIC SITE RESPONSE: SITE NOT CLASSIFIED, SEISMIC DESIGN NOT REQUIRED DUE TO MB CODE AMMENDMENT

REFER TO PLANS FOR DESIGN LOADING
CONTRACTOR TO ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED DESIGN LOADS.

STRUCTURAL MOVEMENTS/ TOLERANCES

1. THIS STRUCTURE WILL UNDERGO NORMAL TYPES OF MOVEMENT AND DEFLECTION AND THE NON-STRUCTURAL COMPONENTS MUST BE DETAILED TO ACCOMMODATE THIS.
2. DRYWALL PARTITIONS, MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT, BUILDING FIXTURES, GLAZING AND CURTAIN WALLS MUST BE DETAILED AND INSTALLED TO ACCOMMODATE SLAB MOVEMENT.
3. ALL STRUCTURES ARE SUBJECT TO CONSTRUCTION TOLERANCES. THIS SHOULD BE ALLOWED FOR IN DETAILING NON-STRUCTURAL COMPONENTS.

NON-STRUCTURAL ELEMENTS

1. "NON-STRUCTURAL" OR "SECONDARY STRUCTURAL" ELEMENTS ARE NOT THE RESPONSIBILITY OF STRUCTURAL ENGINEER. THEY ARE DESIGNED, DETAILED, AND REVIEWED IN THE FIELD BY OTHERS. THEY APPEAR ON DRAWINGS OTHER THAN THE STRUCTURAL ENGINEER. WHERE STRUCTURAL ENGINEERING RESPONSIBILITY IS REQUIRED FOR THESE ELEMENTS, THIS SHALL BE PROVIDED BY SPECIALTY STRUCTURAL ENGINEERS, WHO SHALL ALSO PROVIDE ANY CERTIFICATION REQUIRED BY BUILDING PERMIT AUTHORITIES. SPECIALTY STRUCTURAL ENGINEERS ARE TO DESIGN THESE ELEMENTS ACCORDING TO THE APPLICABLE DESIGN LOADS AS NOTED IN PART 4 OF THE MOST CURRENT NBCC.
2. EXAMPLES OF NON-STRUCTURAL OR SECONDARY STRUCTURAL ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO:
 - A. ARCHITECTURAL COMPONENTS SUCH AS GUARDRAILS, HANDRAILS, CEILINGS, MILLWORK ETC.
 - B. LANDSCAPE ELEMENTS SUCH AS BENCHES, LIGHT POSTS, PLANTERS, ETC.
 - C. CLADDING, GLAZING, WINDOW MULLIONS, INTERIOR STUD WALLS AND EXTERIOR STUD WALLS.
 - D. ARCHITECTURAL PRECAST, PRECAST CLADDING.
 - E. MECHANICAL AND ELECTRICAL EQUIPMENT, COMPONENTS, AND THEIR ATTACHMENT DETAILS.
 - F. ELEVATORS, ELEVATOR HOIST BEAMS, ESCALATORS, AND OTHER CONVEYING SYSTEMS.
 - G. BRICK OR BLOCK VENEERS AND THEIR ATTACHMENTS.
 - H. NON-LOAD BEARING MASONRY.
 - I. NON-STRUCTURAL CONCRETE TOPPINGS
 - J. ALUMINUM SKYLIGHTS.
 - K. STAIRS
3. SHOP DRAWINGS FOR NON-STRUCTURAL ELEMENTS WHICH MAY AFFECT THE PRIMARY STRUCTURAL SYSTEM SHALL BE SUBMITTED TO CONTRACT ADMINISTRATOR THESE DRAWINGS WILL BE REVIEWED ONLY FOR THE EFFECT ON THE PRIMARY STRUCTURAL SYSTEM.

LUMBER

1. FRAMING LUMBER SHALL CONFORM TO THE LATEST EDITION CSA 0141 AND SHALL BE OF THE FOLLOWING MINIMUM GRADES: LINTELS, JOISTS, AND BEAMS: S-P-F No.1/No.2, STUD WALLS: S-P-F No.1/No.2
2. ALL SHEATHING MATERIAL TO BE MIN 1/2" THICK PLYWOOD IN ACCORDANCE WITH LATEST EDITION CSA 0325 U.N.O. ALL SHEETS TO BE STAGGERED. FASTEN SHEETS WITH 3" COMMON NAILS AT 12" O/C ALONG ALL STUDS AND AT 6" O/C ALONG EDGES OF SHEET, U.N.O. STAPLES ARE NOT ACCEPTABLE. OSB FOR VERTICAL SHEATHING ONLY
3. ALL FLOOR AND ROOF JOISTS TO BE NAILED AND GLUED AND TO HAVE CONTINUOUS CROSS BRIDGING AT 6'-0" MAX. SPACING U.N.O.
4. 48" WOOD BLOCKING FULL DEPTH CONTINUOUS FOR STUDS.
5. EDGE BLOCKING FOR PARALLEL WALLS AT 16", 32" AND 48" IN NEXT BAYS.
6. WOOD IN CRAWL SPACE OR IN CONTACT WITH STEEL, MASONRY OR CONCRETE IN ITS FINAL INSTALLED CONDITION IS TO BE PRESSURE TREATED U.N.O.
7. CONTINUOUS SILL GASKET REQUIRED AT JOIST BEARING POINTS ON CONCRETE.

CONCRETE

1. ALL CONCRETE CONSTRUCTION, COLD WEATHER CONSTRUCTION & CONCRETE TESTING TO BE IN ACCORDANCE WITH THE LATEST EDITION CSA STANDARDS A23.1 AND A23.2.
2. ALL CONCRETE TO BE NORMAL WEIGHT HARD ROCK CONCRETE WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH AS NOTED IN TABLE 2 OF THE LATEST EDITION CSA A23.1.
3. CONCRETE CLASSES OF EXPOSURE (REFER TO TABLE 1, LATEST EDITION CSA A23.1):
A. GARAGE SLAB ON GRADE, THICKENED SLAB EDGE CLASS C-2 EXPOSURE (32 MPa @28d)
4. CONCRETE SLUMP TO BE COORDINATED BETWEEN CONTRACTOR AND CONCRETE SUPPLIER CONSIDERING THE PERFORMANCE CRITERIA AND THE CONTRACTOR'S CRITERIA FOR CONSTRUCTION AND PLACEMENT.
5. CONCRETE SAMPLING AND TESTING TO BE COMPLETE IN ACCORDANCE WITH THE LATEST EDITION CSA A23.1/A23.2

REINFORCING

1. REINFORCING STEEL SHALL BE GRADE 400 DEFORMED NEW BILLET STOCK CONFORMING TO THE LATEST EDITION OF CSA SPECIFICATION G30.18. WELDED WIRE MESH SHALL CONFORM TO THE LATEST EDITION CSA A23.1 CLAUSE 6.1.1.1.
2. CONCRETE COVER TO BE AS PER TABLE 17 OF THE LATEST EDITION CSA A23.1

EXPOSURE CONDITION	EXPOSURE CLASS		
	N	F-1, F-2, S-1, S-2	C-XL, C-1, C-3, A-1, A-2, A-3
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	-	75mm	75mm
BEAMS, GIRDERS, COLUMNS, AND PILES	30mm	40mm	60mm
SLABS, WALLS, JOISTS	20mm	40mm	60mm

3. CONCRETE COVER FOR EXPOSURE CLASSES NOT NOTED ABOVE TO BE 40 mm.
4. TOP STEEL IN GRADE BEAMS TO BE SPLICED AT CENTER SPAN AND BOTTOM STEEL TO BE SPLICED OVER SUPPORTS.
SPLICE LENGTHS:
 - A. TENSION ZONE SPLICE TO BE AVOIDED WHEREVER POSSIBLE, BUT IF REQUIRED, LENGTH SHOULD BE SPECIFIED BY SWP PROJECTS LTD..
 - B. COMPRESSION ZONE SPLICE SHOULD NOT BE LESS THAN 30 BAR DIAMETERS.
5. CONCRETE COVER FOR FIRE RATING REQUIREMENTS AS PER CURRENT EDITION OF NBCC

FOUNDATION - CAST IN PLACE SKIN FRICTION PILES

1. FOUNDATION DESIGN FOR HAS BEEN DONE IN ACCORDANCE WITH GEOTECHINCAL REPORT AS PREPARED BY TREK GEOTECHNICAL AND DATED JANUARY 27, 2021.
2. CONTRACTOR SHALL OBTAIN AND FAMILIARIZE THEMSELVES WITH THE REQUIREMENTS OF THE GEOTECHNICAL REPORT INCLUDING BUT NOT LIMITED TO SITE CLEANING AND GRUBBING, EXCAVATION AND PROTECTION TO SUB GRADE ELEVATION LEVEL, PROOF ROLLING OF SUB-GRADE, PLACEMENT AND COMPACTION OF GRANULAR BASE COURSES. SPECIFICALLY, REPORT PROVIDES INFORMATION ABOUT THE POTENTIAL PRESENCE OF OLD FOUNDATIONS / RUBBLE IN THE GENERAL PROJECT AREA AND THE NEED FOR THE USE OF STEEL SLEEVES DURING PILE INSTALLATION
3. DESIGN HAS BEEN DONE ASSUMING ULS AND SLS SKIN FRICTION CRITERIA AS FOLLOWS:
 - A. 0 TO 3m BELOW EXISTING GRADE - 0 kPa
 - B. 3 TO 7m BELOW EXISTING GRADE - 8 kPa SLS / 10 kPa ULS
 - C. 7 TO 11m BELOW EXISTING GRADE - 7 kPa SLS / 8 kPa ULS



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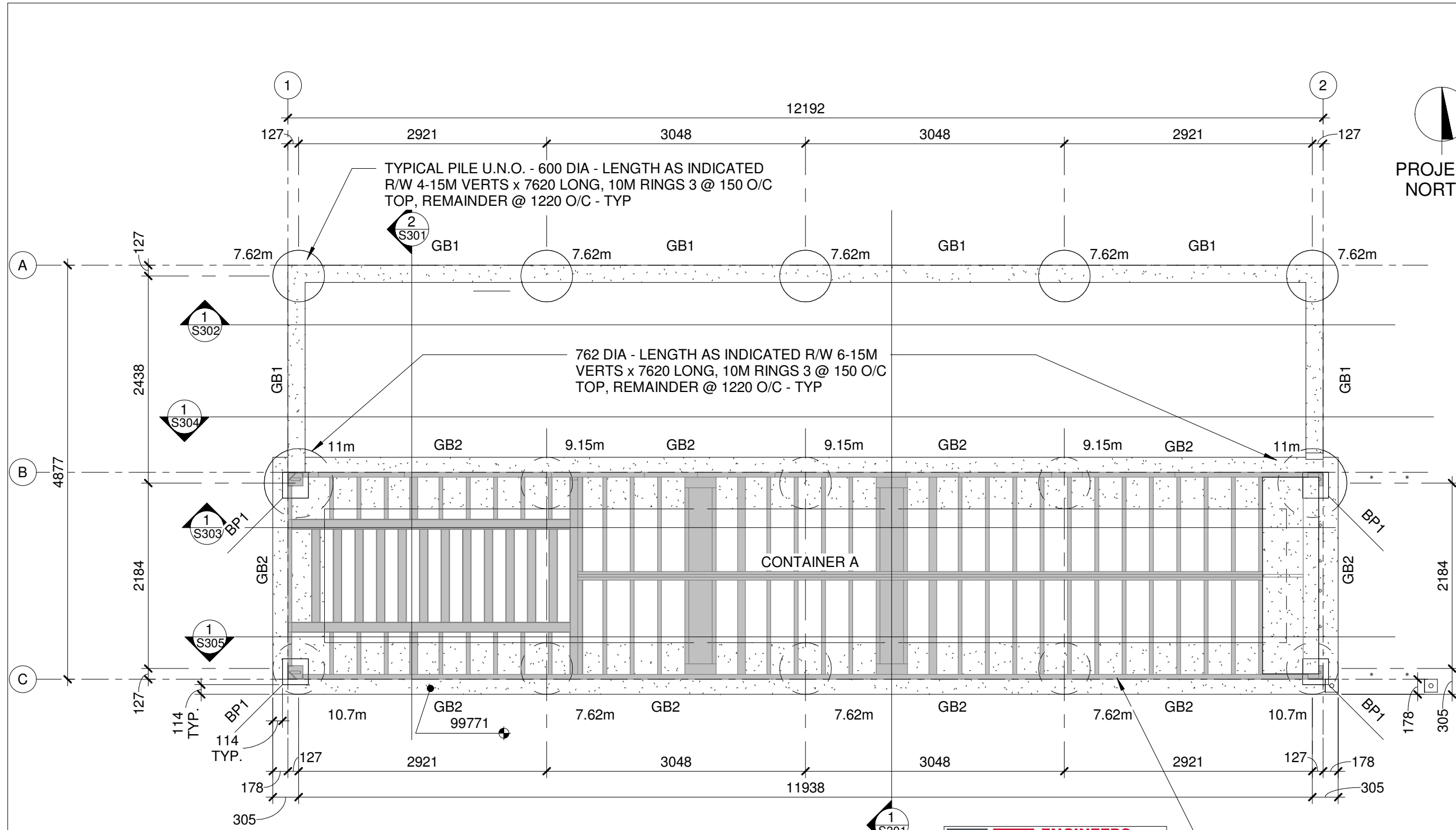
THE CITY OF WINNIPEG

BID OPPORTUNITY 54-2021

No.	Description	Date
1	ISSUED FOR CONSTRUCTION	21-03-04

GENERAL NOTES - PAGE 2

Project number	20-104	S002
Date	2021-03-04	
Drawn by	DP	
Checked by	DP	
		Scale 1 : 100



NOTE:
REFER TO SHEET S106 FOR
EXTENT OF SITE CONCRETE
ELEMENTS

- GB1**
203x610 R/W 2-15M TOP AND
BOTTOM, 10M STIRRUPS @ 300O/C
- GB2**
610x530 R/W 4-15M TOP AND
BOTTOM, 10M STIRRUPS @ 300O/C
- BP1**
300x300x13 C/W 6-13 DIA NELSON
STUDS x 150 LONG
- BP2**
TYPICAL RAILING BASE PLATE

NOTE: BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE GEOTECHNICAL REPORT AS PREPARED BY TREK GEOTECHNICAL AND DATED JANUARY 27, 2021. SPECIFICALLY, REPORT PROVIDES INFORMATION ABOUT THE POTENTIAL PRESENCE OF OLD FOUNDATIONS / RUBBLE IN THE GENERAL PROJECT AREA AND THE NEED FOR THE USE OF STEEL SLEEVES DURING PILE INSTALLATION

**ENGINEERS
GEOSCIENTISTS
MANITOBA**

Certificate of Authorization
SWP Projects Ltd.
No. 6036 Expiry: April 30,2021

APPROXIMATE LAYOUT OF CONTAINER A FLOOR FRAMING SHOWN THUS - CONFIRM PRECISE FRAMING WITH SUPPLIED CONTAINER. SHIM AND CONTINUOUSLY GROUT CONTAINER BOTTOM RAILS AND END FRAMES TO TOP OF GB2 BEAM



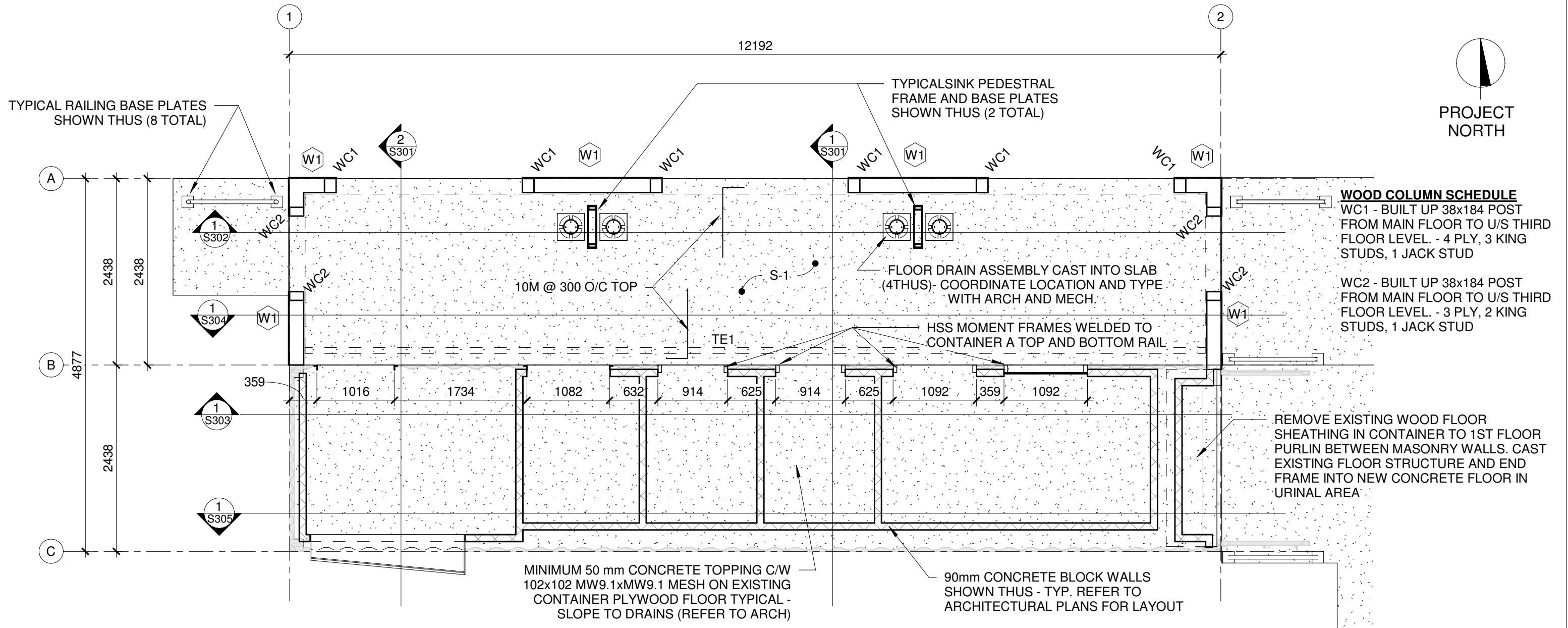
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715 MAIN STREET PUBLIC TOILET
THE CITY OF WINNIPEG
BID OPPORTUNITY 54-2021

No.	Description	Date
1	ISSUED FOR CONSTRUCTION	21-03-04

FOUNDATION FRAMING PLAN

Project number	20-104	S101
Date	2021-03-04	
Drawn by	DP	
Checked by	DP	
		Scale 1 : 50



WOOD COLUMN SCHEDULE
 WC1 - BUILT UP 38x184 POST FROM MAIN FLOOR TO U/S THIRD FLOOR LEVEL - 4 PLY, 3 KING STUDS, 1 JACK STUD
 WC2 - BUILT UP 38x184 POST FROM MAIN FLOOR TO U/S THIRD FLOOR LEVEL - 3 PLY, 2 KING STUDS, 1 JACK STUD

REMOVE EXISTING WOOD FLOOR SHEATHING IN CONTAINER TO 1ST FLOOR PURLIN BETWEEN MASONRY WALLS. CAST EXISTING FLOOR STRUCTURE AND END FRAME INTO NEW CONCRETE FLOOR IN URINAL AREA

SPECIFIED DESIGN LOADS

LIVE LOAD 4.8 kPa
 DEAD LOAD
 150 CONCRETE SLAB ON VOID - 3.6 kPa
 MINIMUM 50 CONCRETE TOPPING - 1.2 kPa
 CONTAINER - TARE WEIGHT NOT TO EXCEED 4018 kg (9000 lb)

S-1 SLAB

150 CONCRETE SLAB ON MINIMUM 150 VOID FORM R/W 10M @ 300 O/C EACH WAY BOTTOM, 10M L-DOWELS @ 300 O/C TOP FROM PERIMETER GRADE BEAM GRID A AND TE1 GRID B

TE1 THICKENED EDGE

150x225 THICKENED EDGE R/W 1-15M TOP AND BOTTOM

WOOD WALL SCHEDULE

W1 - 38x184 SPF NO. 2 OR BETTER STUDS @ 203 O/C FROM MAIN FLOOR TO U/S THIRD FLOOR LEVEL
 W2 - 38x184 SPF NO. 2 OR BETTER STUDS @ 406 O/C INFILL WALL ABOVE GARAGE DOOR OPENINGS TO U/S THIRD FLOOR LEVEL
 W3 - 38x140 SPF NO. 2 OR BETTER STUDS @ 406 O/C FROM THIRD FLOOR TO U/S ROOF JOISTS

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D. R. POOLE
 REGISTERED PROFESSIONAL ENGINEER
 03-04-2021
 Member 24613

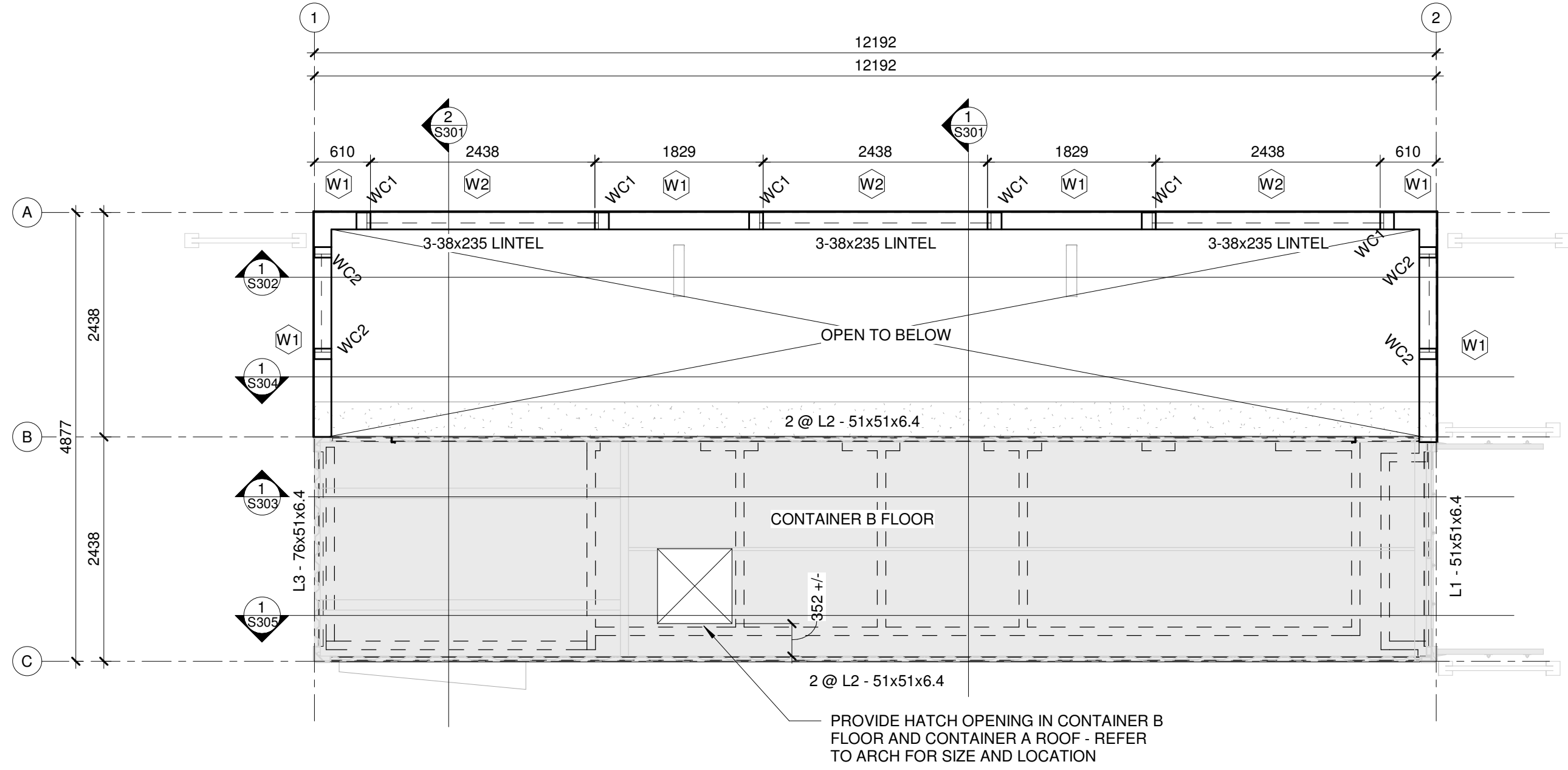
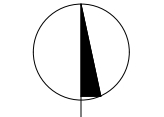


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No.	Description	Date
1	ISSUED FOR CONSTRUCTION	21-03-04

MAIN FLOOR FRAMING PLAN		S102
Project number	20-104	
Date	2021-03-04	
Checked by	DP	
Scale	1 : 50	



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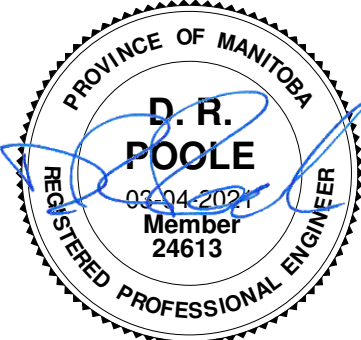


PLATE LEGEND

- PL1 - 150x200x13 CONTAINER STACK CONNECTOR PLATE WELDED TO CORNER CASTINGS
- PL2 - 190x108x6.4 END FRAME OPENING CLOSURE
- PL3 - 300x135x6.4 SIDE RAIL FORKLIFT TUNNEL CLOSURE

SPECIFIED DESIGN LOADS

- LIVE LOAD 3.6 kPa
- DEAD LOAD
- CONTAINER - TARE WEIGHT NOT TO EXCEED 4018 kg (9000 lb)



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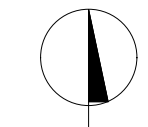
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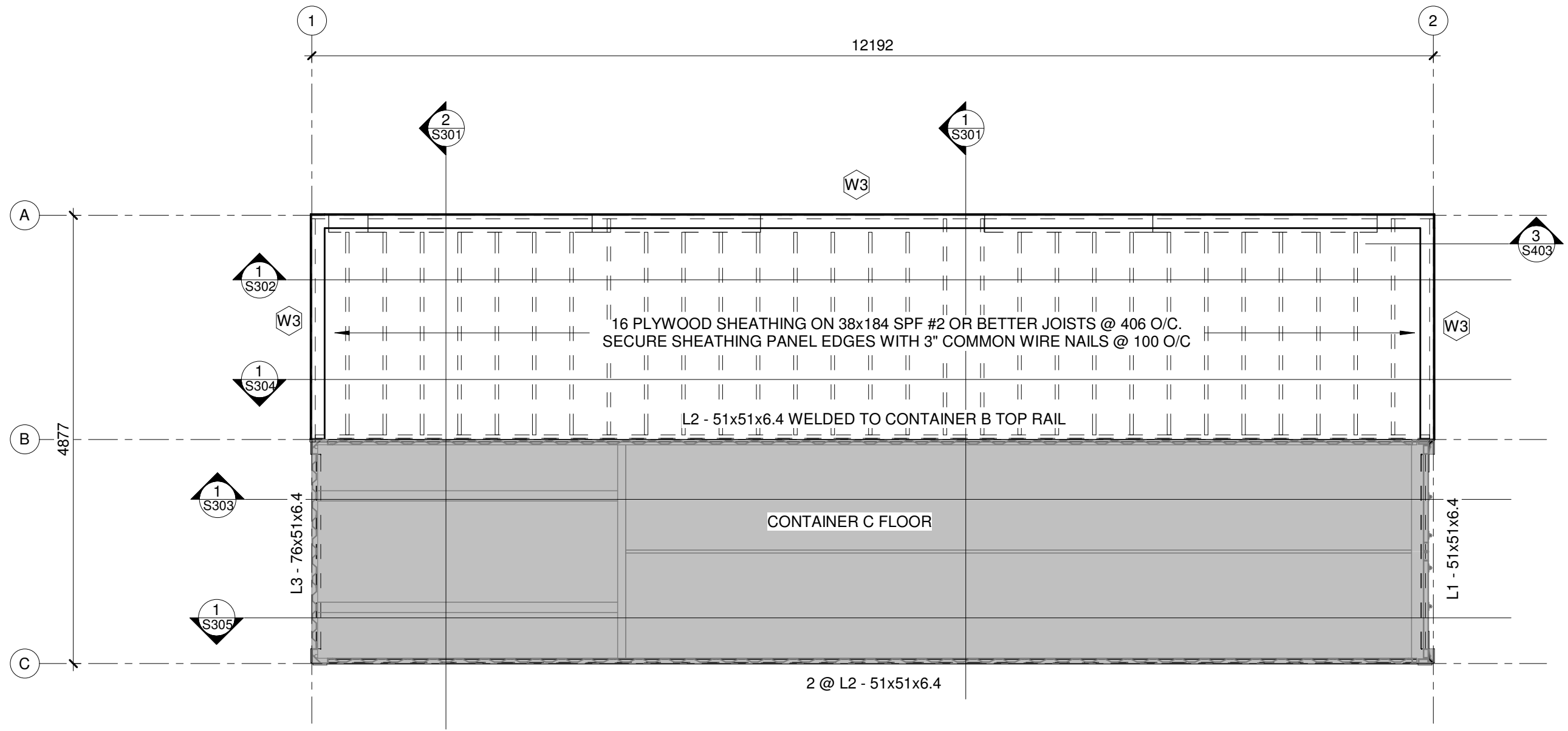
No.	Description	Date
1	ISSUED FOR CONSTRUCTION	21-03-04

SECOND LEVEL FRAMING

PLAN	ber 20-104	S103
Date	2021-03-04	
Drawn by	DP	
Checked by	DP	
Scale 1 : 50		



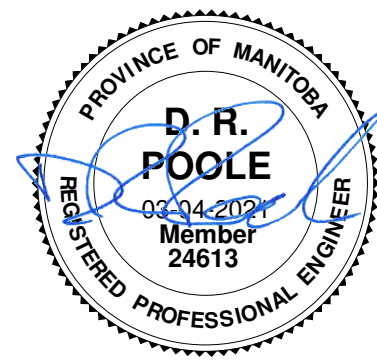
PROJECT NORTH



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SPECIFIED DESIGN LOADS
 LIVE LOAD 0.5 kPa (LIMITED ACCESSIBILITY ATTIC)
 DEAD LOAD
 CONTAINER - TARE WEIGHT NOT TO EXCEED 4018 kg (9000 lb)
 WOOD FLOOR/CEILING SYSTEM - 0.75 kPa



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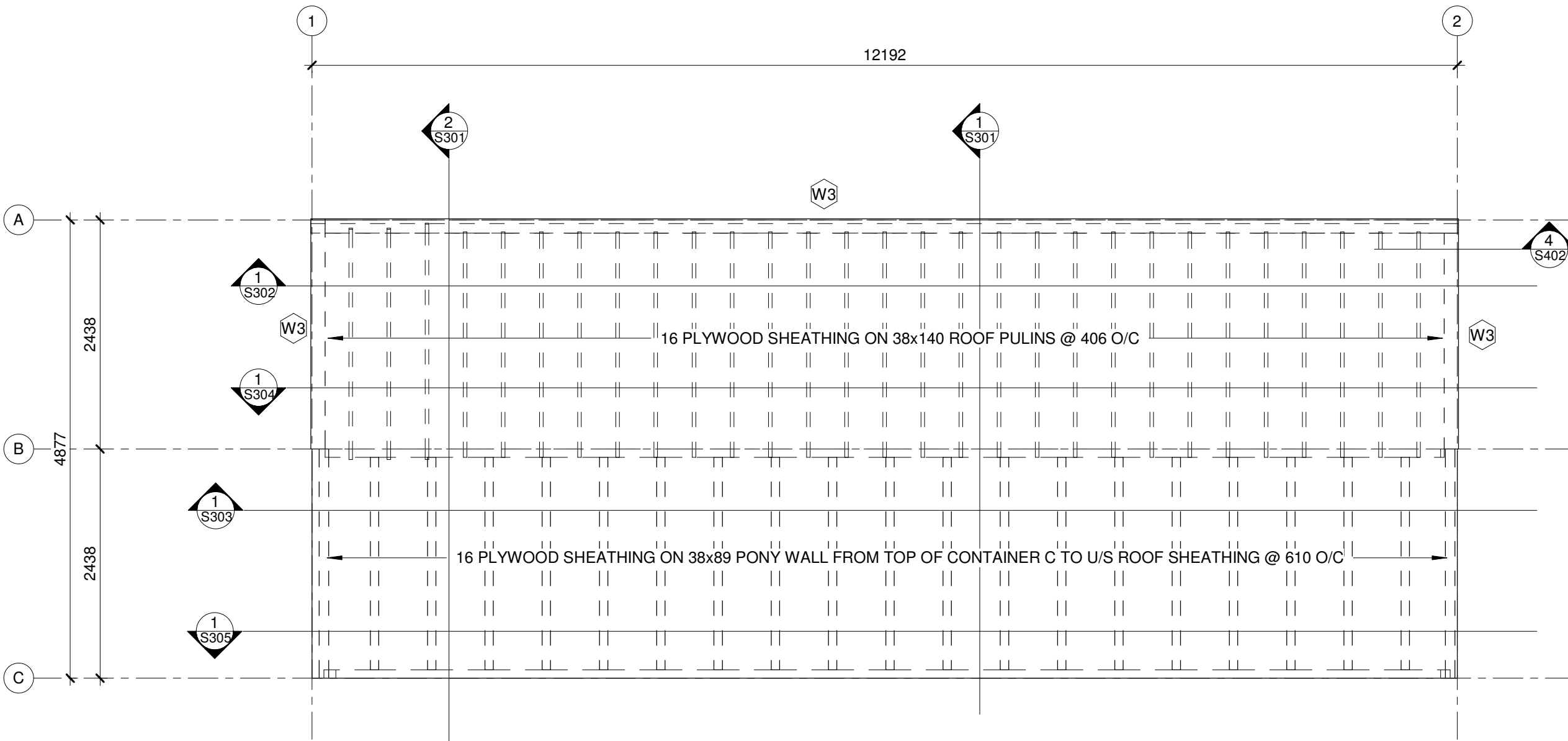
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No.	Description	Date
1	ISSUED FOR CONSTRUCTION	21-03-04

THIRD LEVEL FRAMING PLAN

Project number	20-104	S104
Date	2021-03-04	
Drawn by	DP	
Checked by	DP	
Scale		1 : 50

2021-03-04 12:45:47 PM



SPECIFIED DESIGN LOADS
 SNOW LOADS - 1.72 kPa ULS / 1.56 kPa SLS
 DEAD LOAD
 CONTAINER - TARE WEIGHT NOT TO EXCEED 4018 kg (9000 lb)
 WOOD ROOF SYSTEM - 0.5 kPa



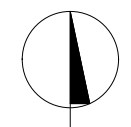
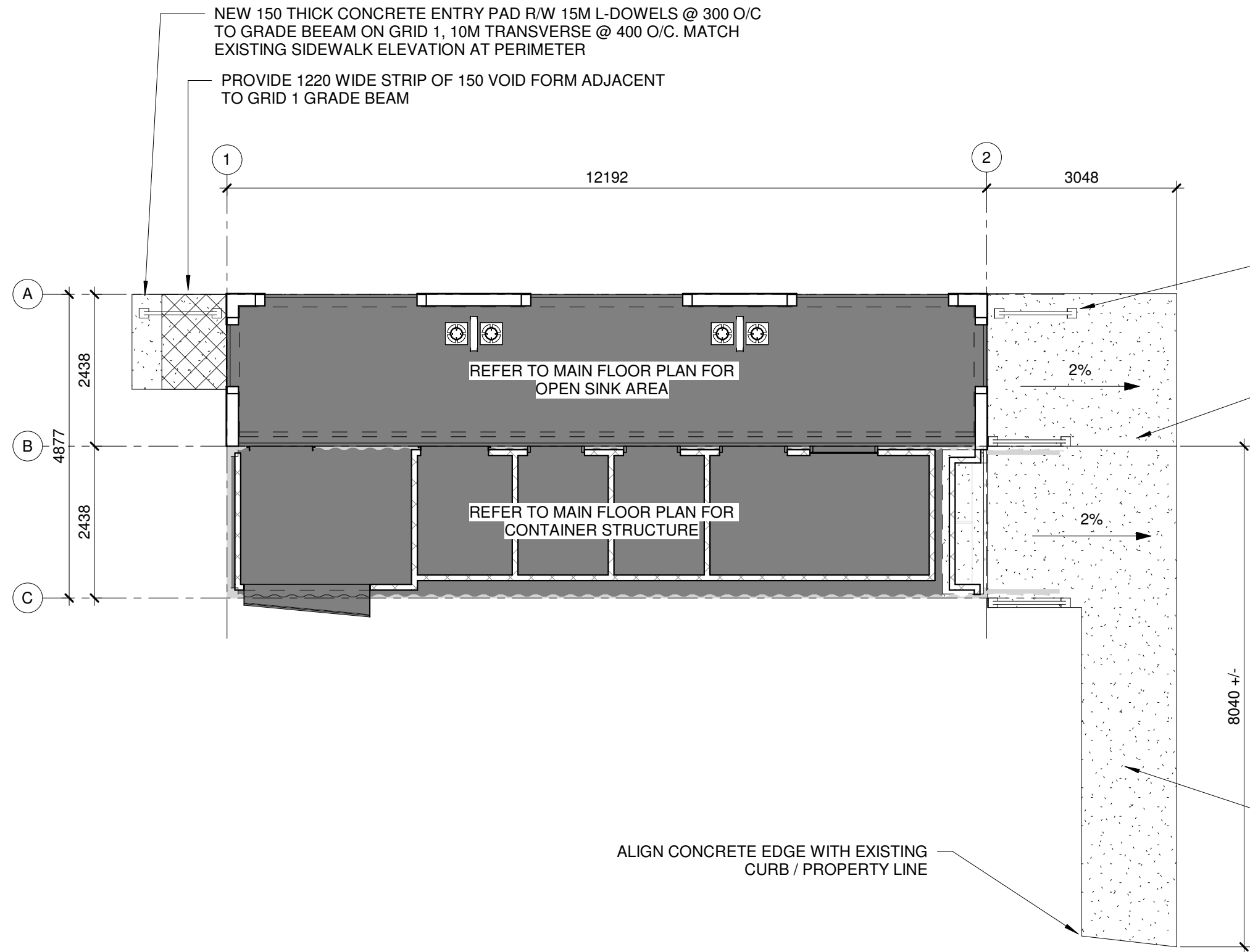
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No.	Description	Date

ROOF FRAMING PLAN

Project number	20-104	S105
Date	2021-03-04	
Drawn by	Author	
Checked by	Checker	
Scale		1 : 50



PROJECT
NORTH

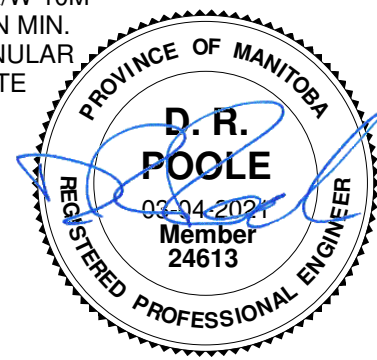
RAILINGS TO BE WELDED TO RAILING
BASE PLATES CAST INTO SITE
CONCRETE SLABS SHOWN THUS

PROVIDE THICKENED EDGE AT
GRADE DISCONTINUITY. SLOPE
SLABS TO MATCH ELEVATION AT
EXTERIOR EDGE

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102 CONCRETE PAVEMENT R/W 10M
@ 400 O/C EA WAY MIDHT. ON MIN.
300 WELL COMPACTED GRANULAR
FILL - TYPICAL SITE CONCRETE



ALIGN CONCRETE EDGE WITH EXISTING
CURB / PROPERTY LINE



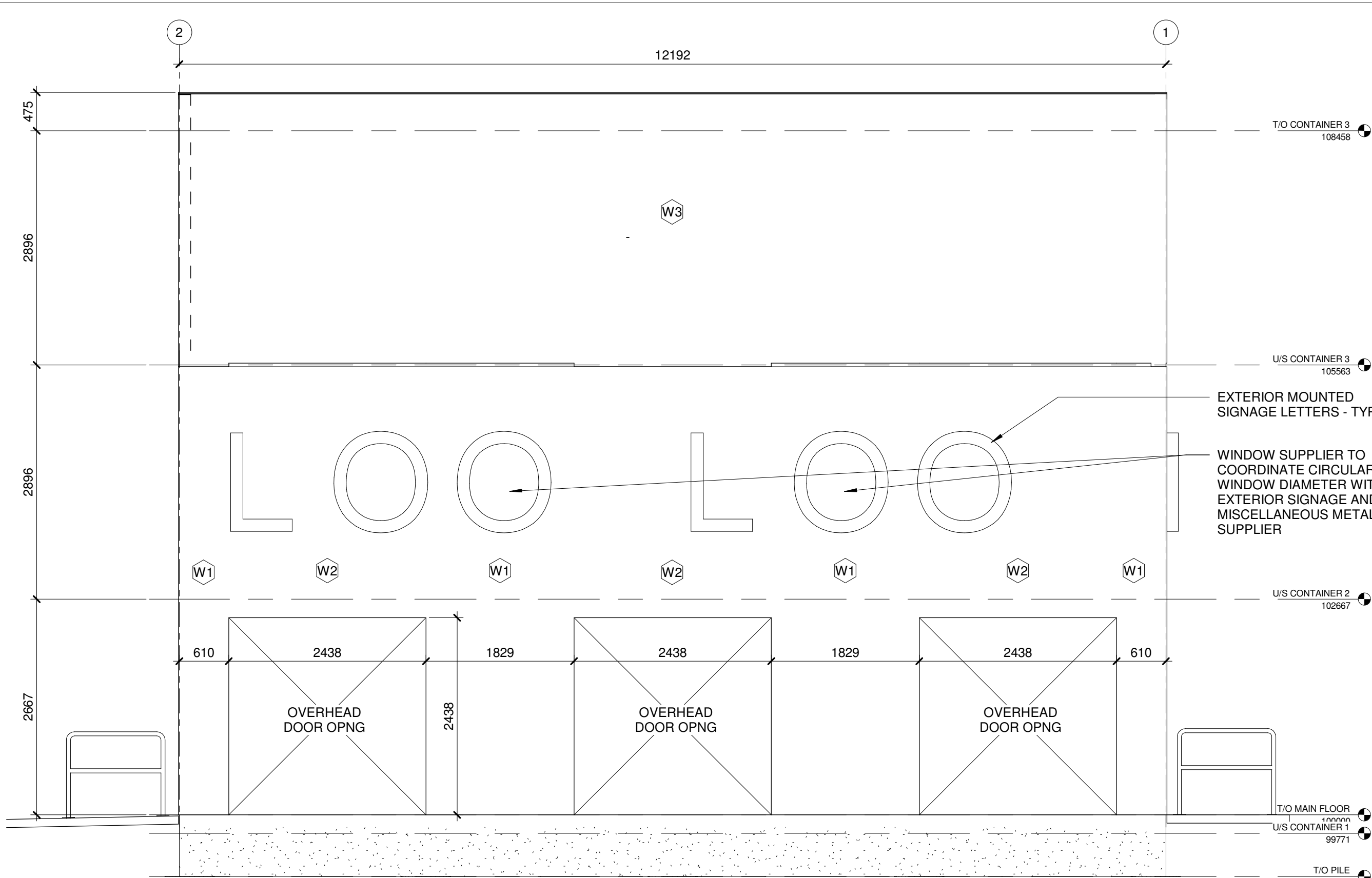
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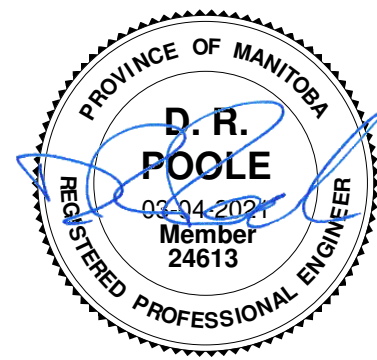
SITE CONCRETE PLAN

Project number	20-104	S106
Date	2021-03-04	
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Checked by	DP	
Scale 1 : 75		



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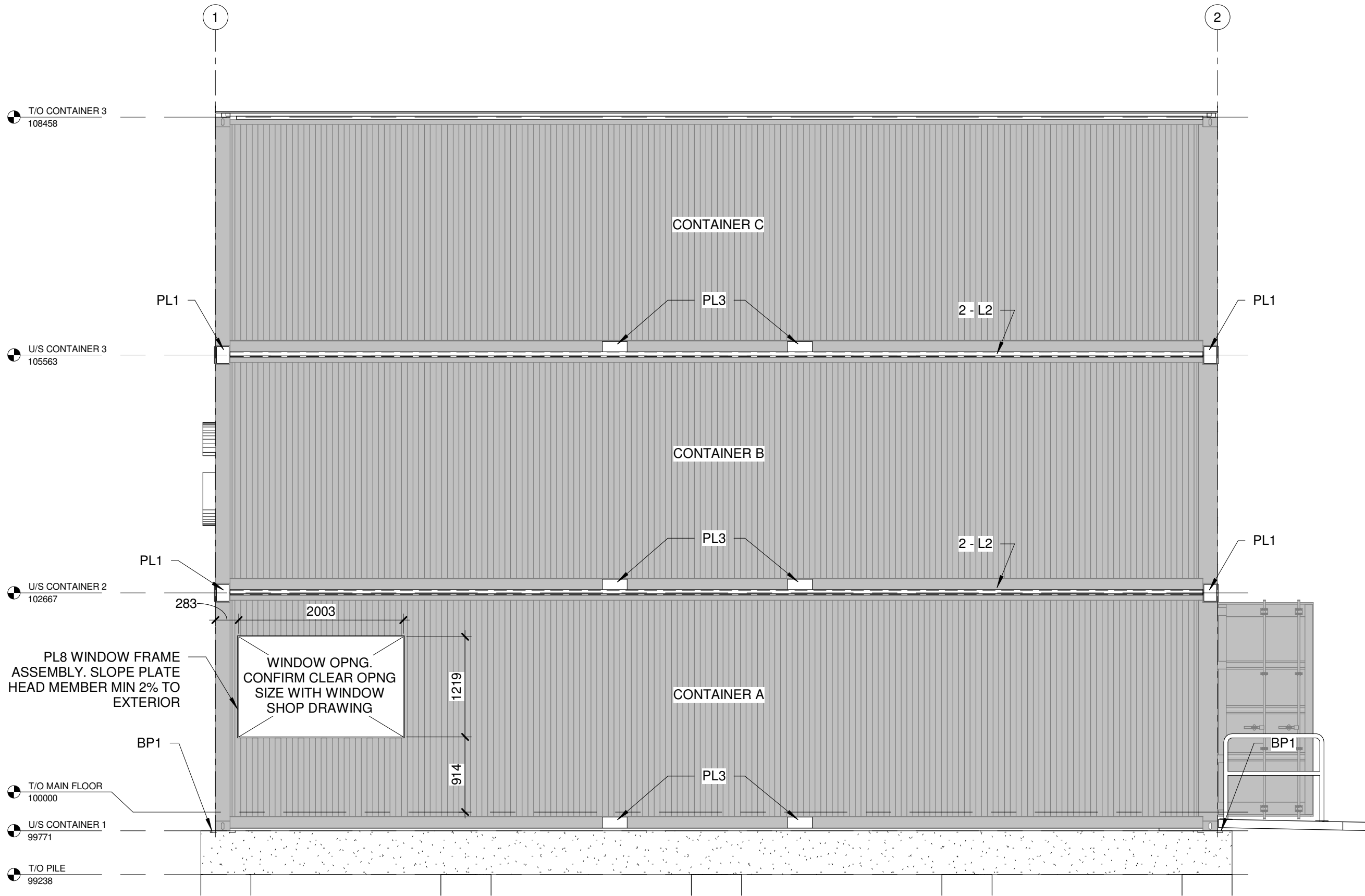
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No.	Description	Date
1	ISSUED FOR CONSTRUCTION	21-03-04

NORTH ELEVATION

Project number	20-104	S201
Date	2021-03-04	
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Scale 1 : 48		



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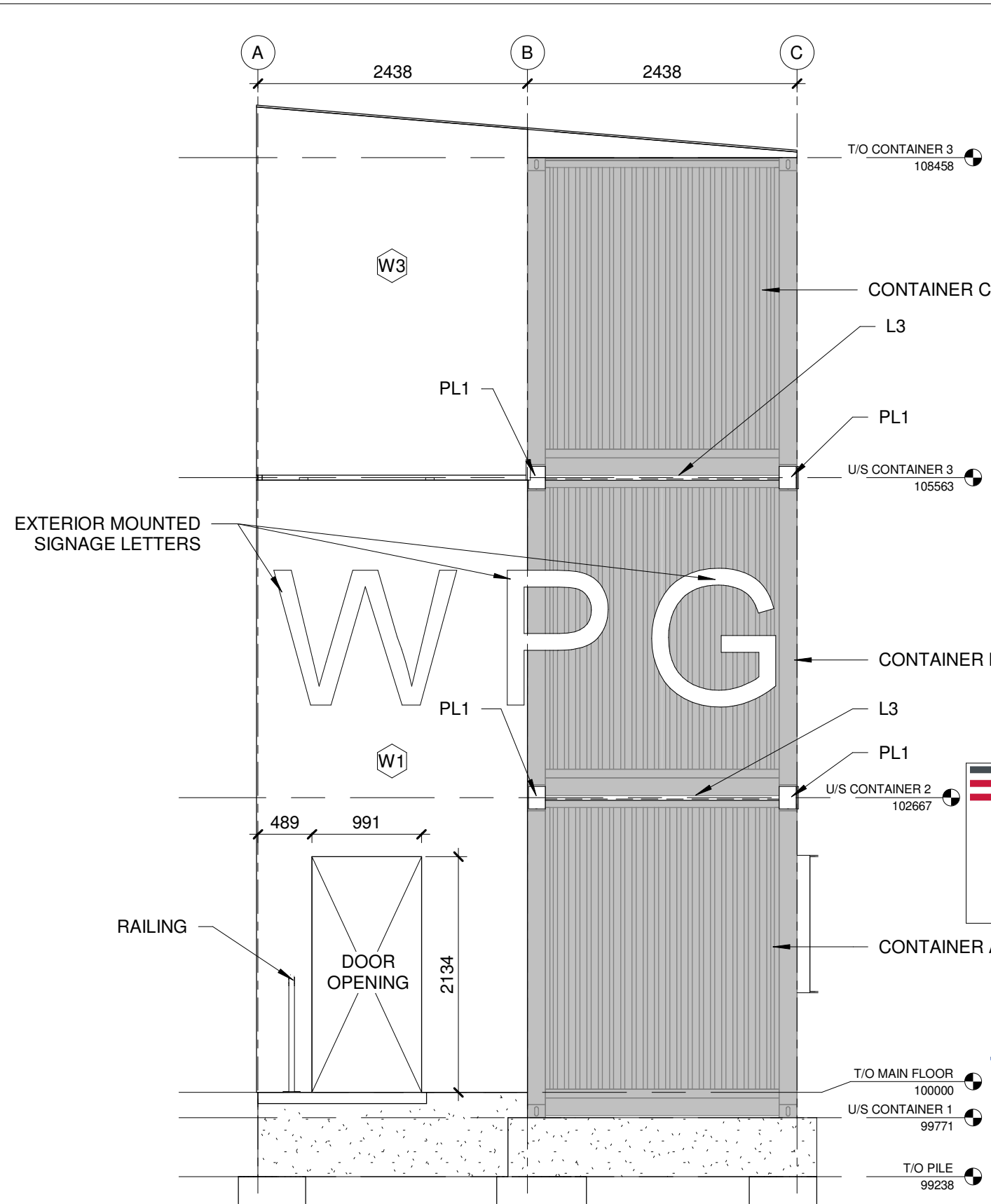
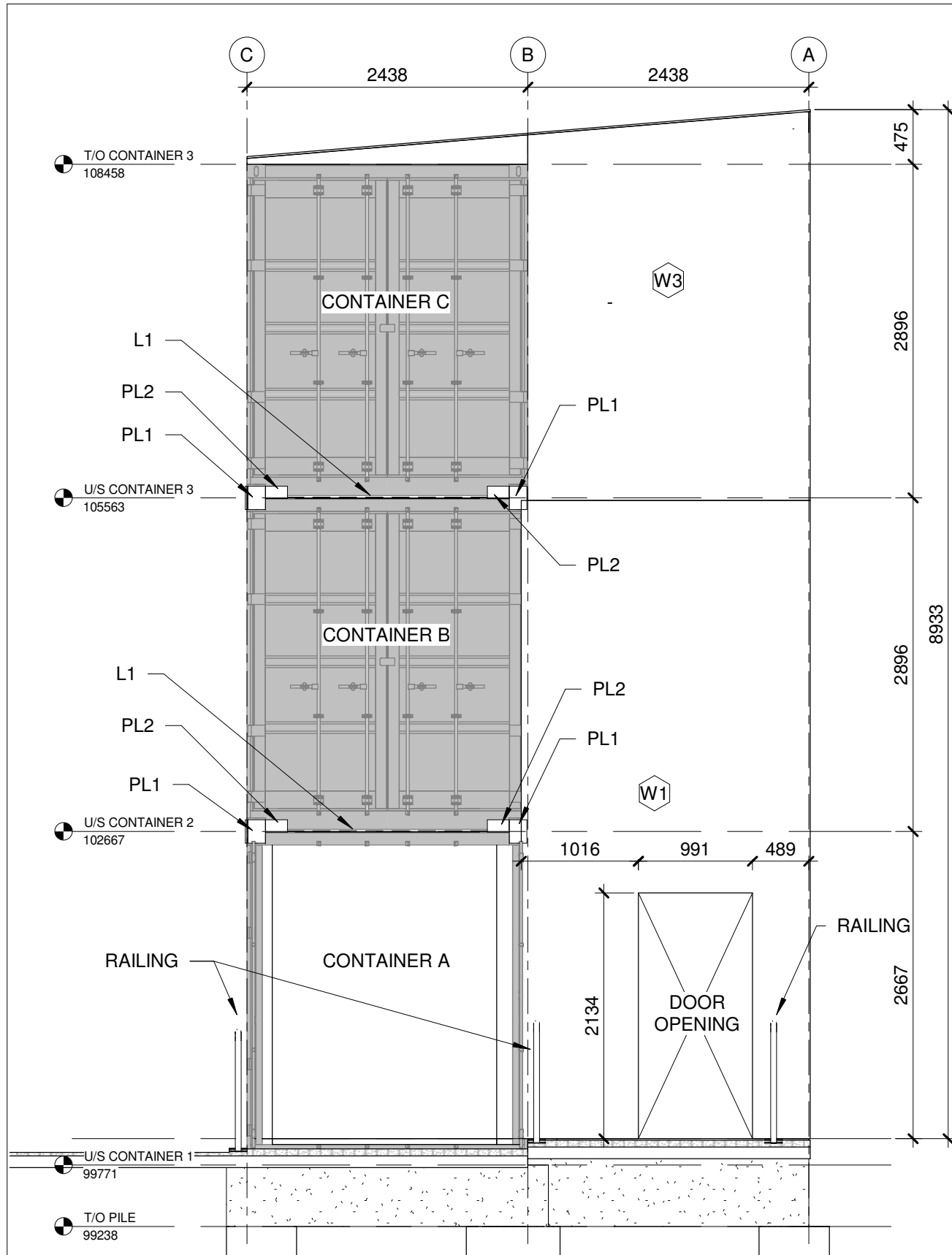
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No.	Description	Date
1	ISSUED FOR CONSTRUCTION	21-03-04

SOUTH ELEVATION

Project number	20-104	S202
Date	2021-03-04	
Drawn by	DP	
Checked by	DP	
Scale 1 : 48		



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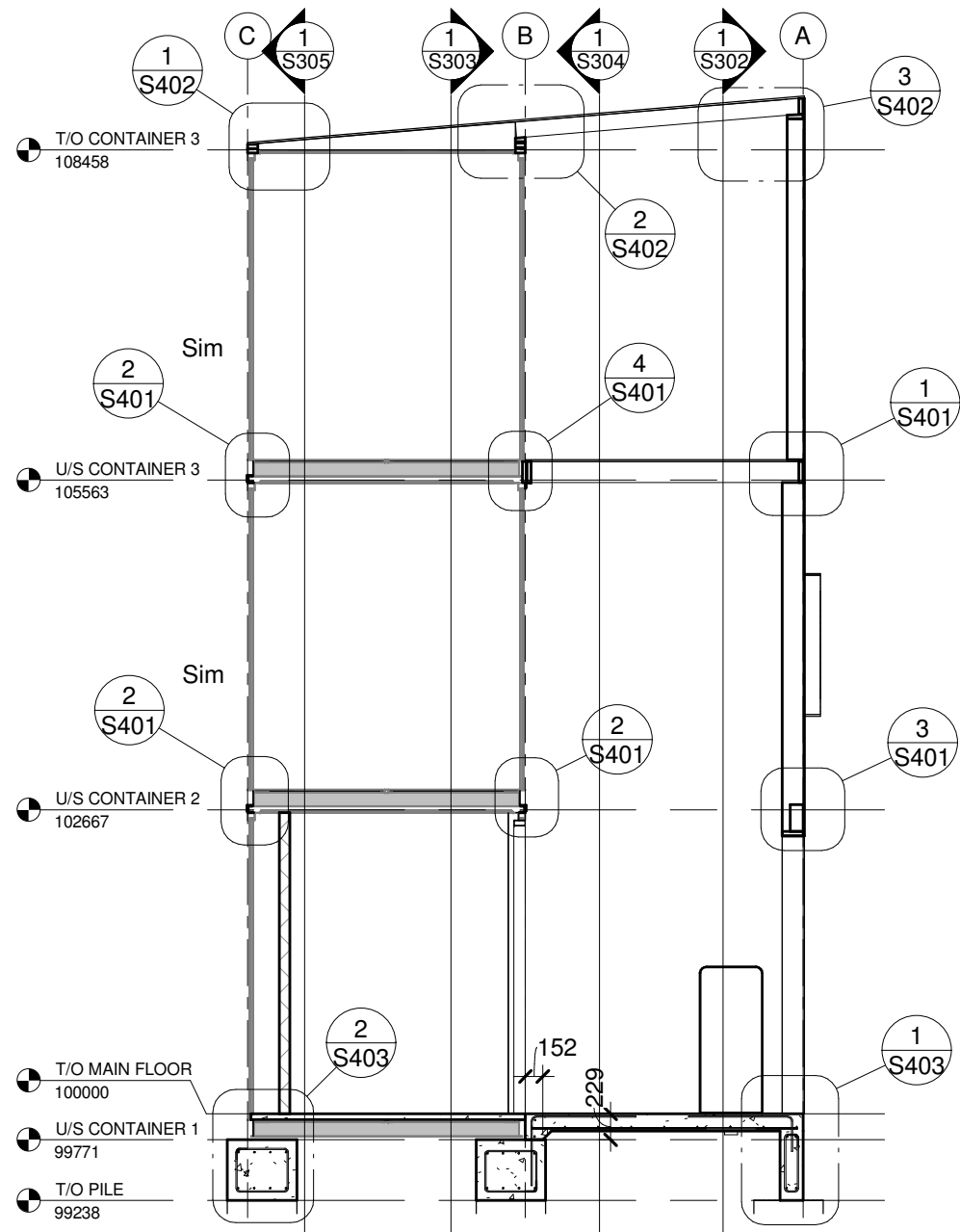
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No.	Description	Date
1	ISSUED FOR CONSTRUCTION	21-03-04

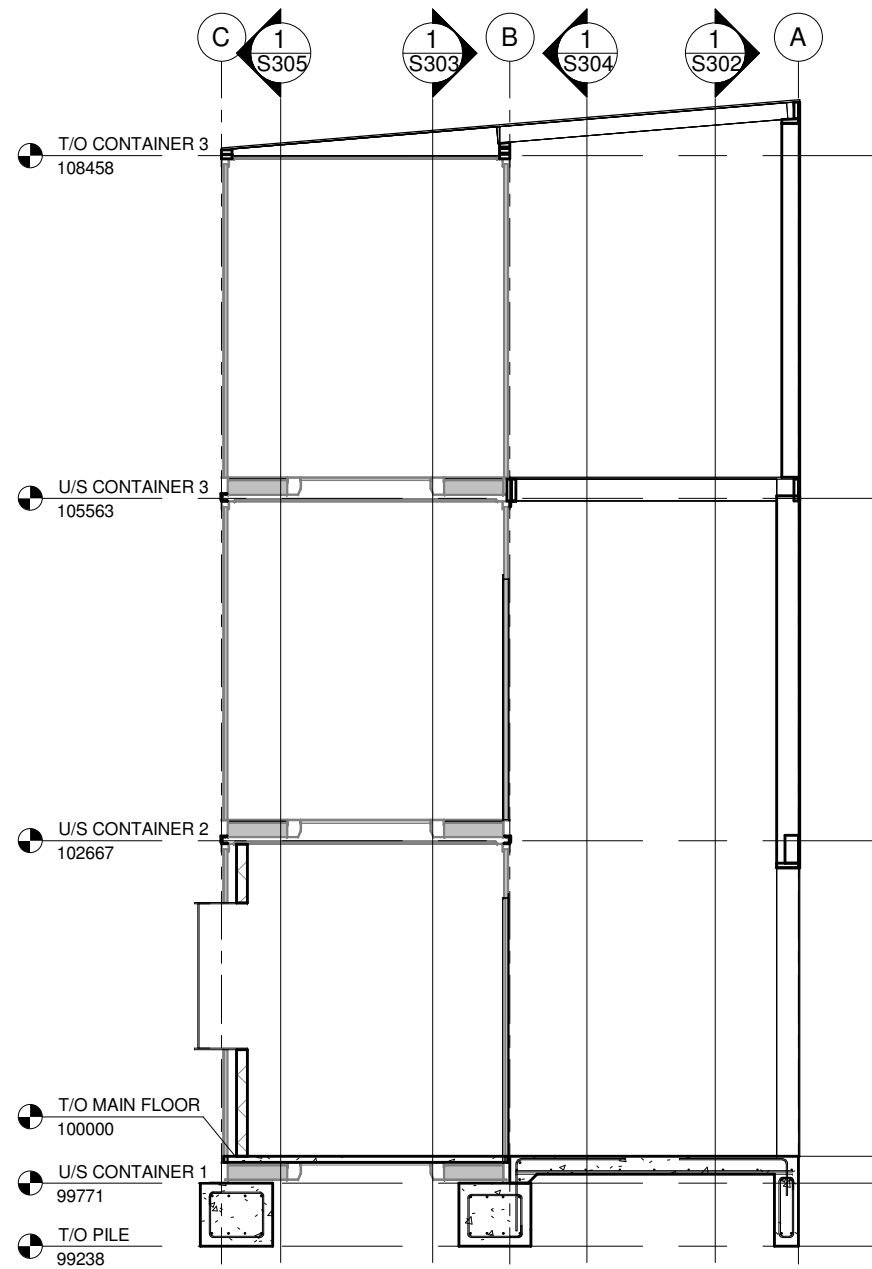
EAST AND WEST ELEVATIONS

Project number	20-104	S203
Date	2021-03-04	
Drawn by	DP	
Checked by	DP	
Scale 1 : 48		

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1 SECTION - WASHROOM
S301 1 : 64



2 SECTION - OFFICE
S301 1 : 64

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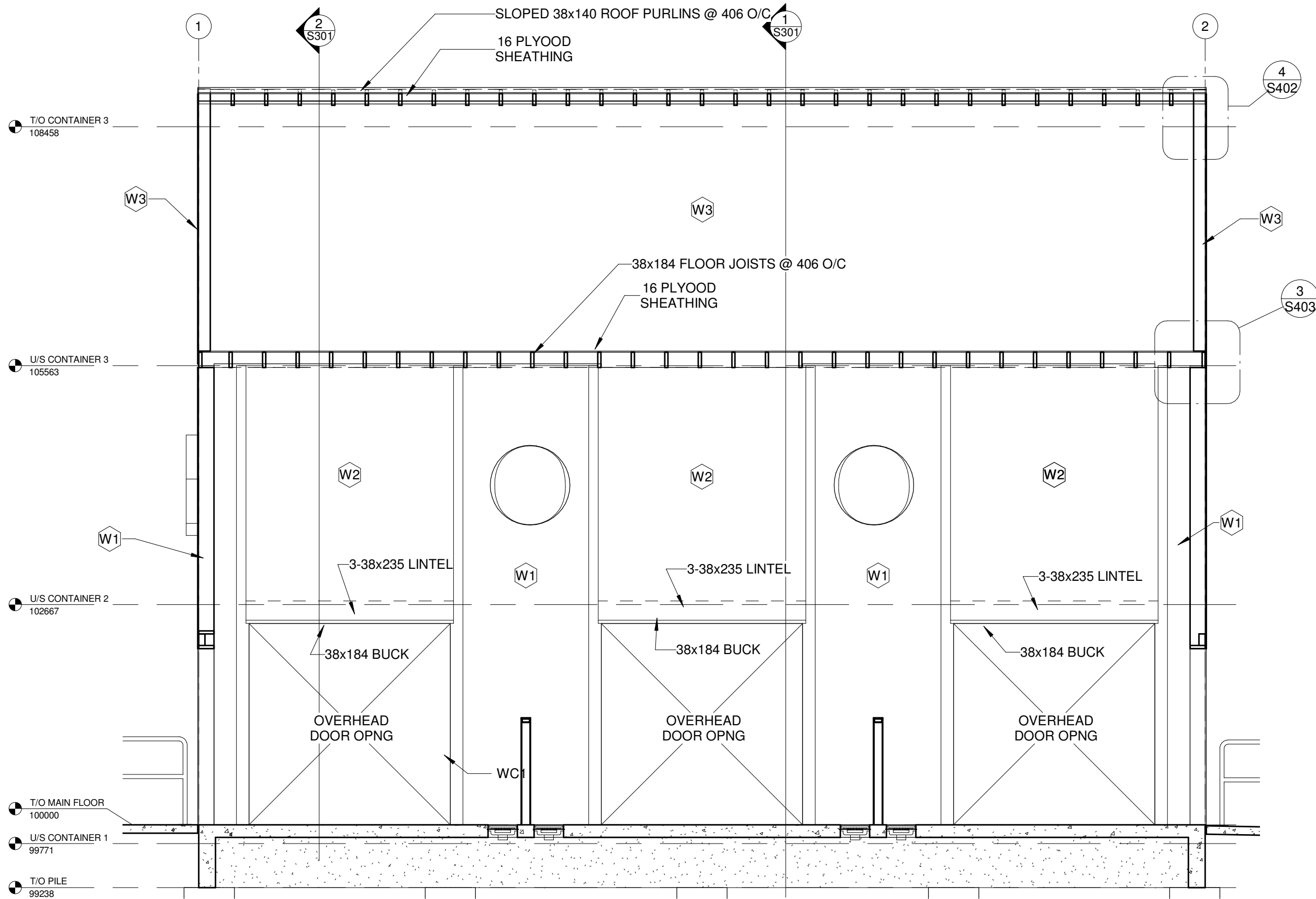
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No.	Description	Date
1	ISSUED FOR CONSTRUCTION	21-03-04

BUILDING SECTIONS

Project number	20-104
Date	2021-03-04
Drawn by	DP
Checked by	DP

S301
Scale 1 : 64



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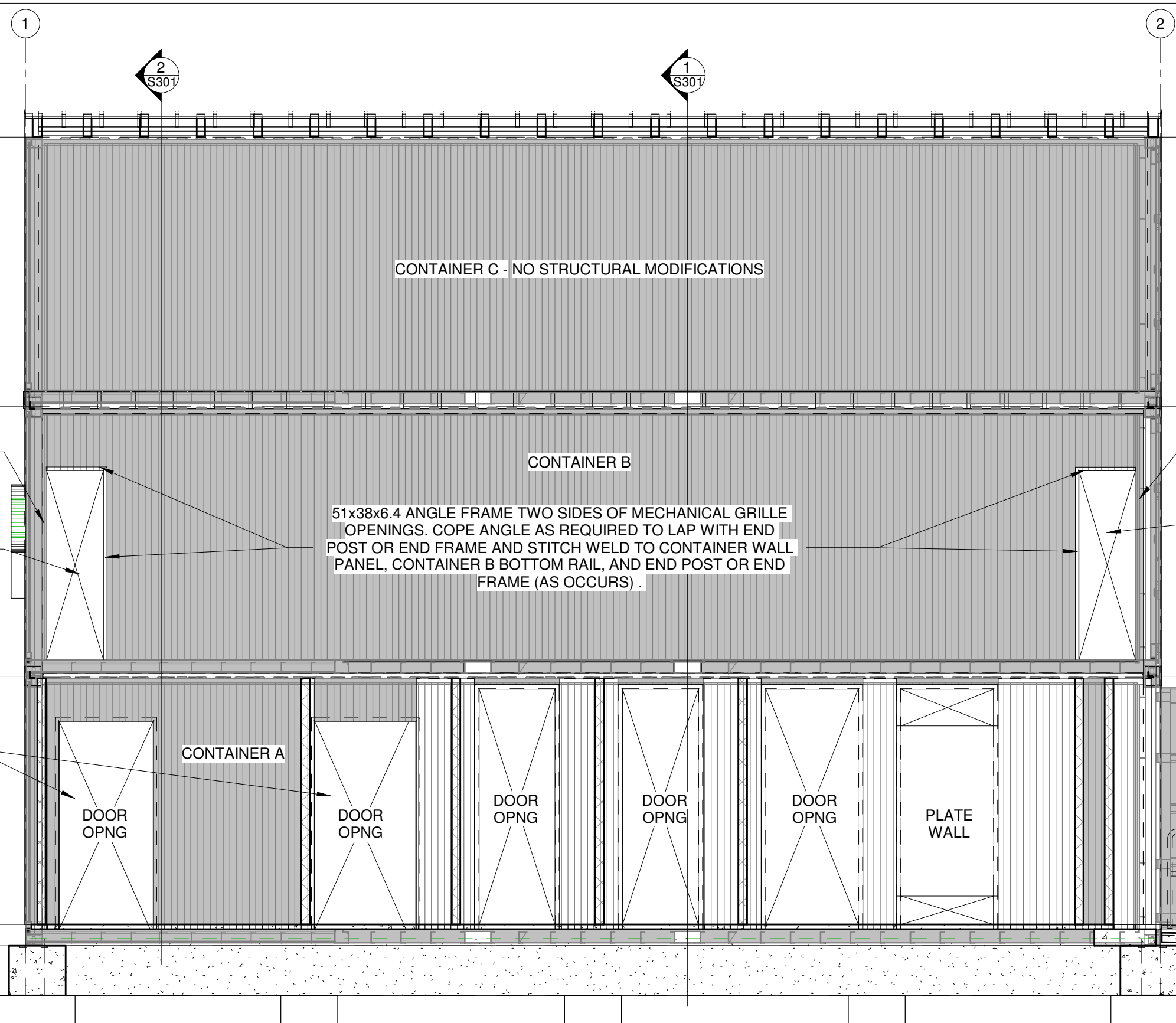
BID OPPORTUNITY 54-2021

No.	Description	Date
1	ISSUED FOR CONSTRUCTION	21-03-04

SECTION - GRID A INTERIOR

Project number	20-104
Date	2021-03-04
Drawn by	DP
Checked by	DP

S302
Scale 1 : 48



EXISTING CONTAINER CORNER COLUMN TO REMAIN - DO NOT CUT / MODIFY

EXISTING CONTAINER ENDWALL FRAME TO REMAIN - DO NOT CUT / MODIFY

MECHANICAL LOUVRE OPENING - CONFIRM EXACT SIZE WITH LOUVRE SHOP DRAWING AND PROVIDE ALLOWANCE FOR PERIMETER WOOD BUCK (IF REQUIRED)

EXISTING CONTAINER CORNER COLUMN TO REMAIN - DO NOT CUT / MODIFY

MECHANICAL LOUVRE OPENING - CONFIRM EXACT SIZE WITH LOUVRE SHOP DRAWING AND PROVIDE ALLOWANCE FOR PERIMETER WOOD BUCK (IF REQUIRED)

MAN DOOR OPENING - CONFIRM EXACT SIZE WITH DOOR SHOP DRAWINGS AND PROVIDE ALLOWANCE FOR PERIMETER WOOD BUCK AND SHIM SPACE

51x38x6.4 ANGLE FRAME TWO SIDES OF MECHANICAL GRILLE OPENINGS. COPE ANGLE AS REQUIRED TO LAP WITH END POST OR END FRAME AND STITCH WELD TO CONTAINER WALL PANEL, CONTAINER B BOTTOM RAIL, AND END POST OR END FRAME (AS OCCURS) .

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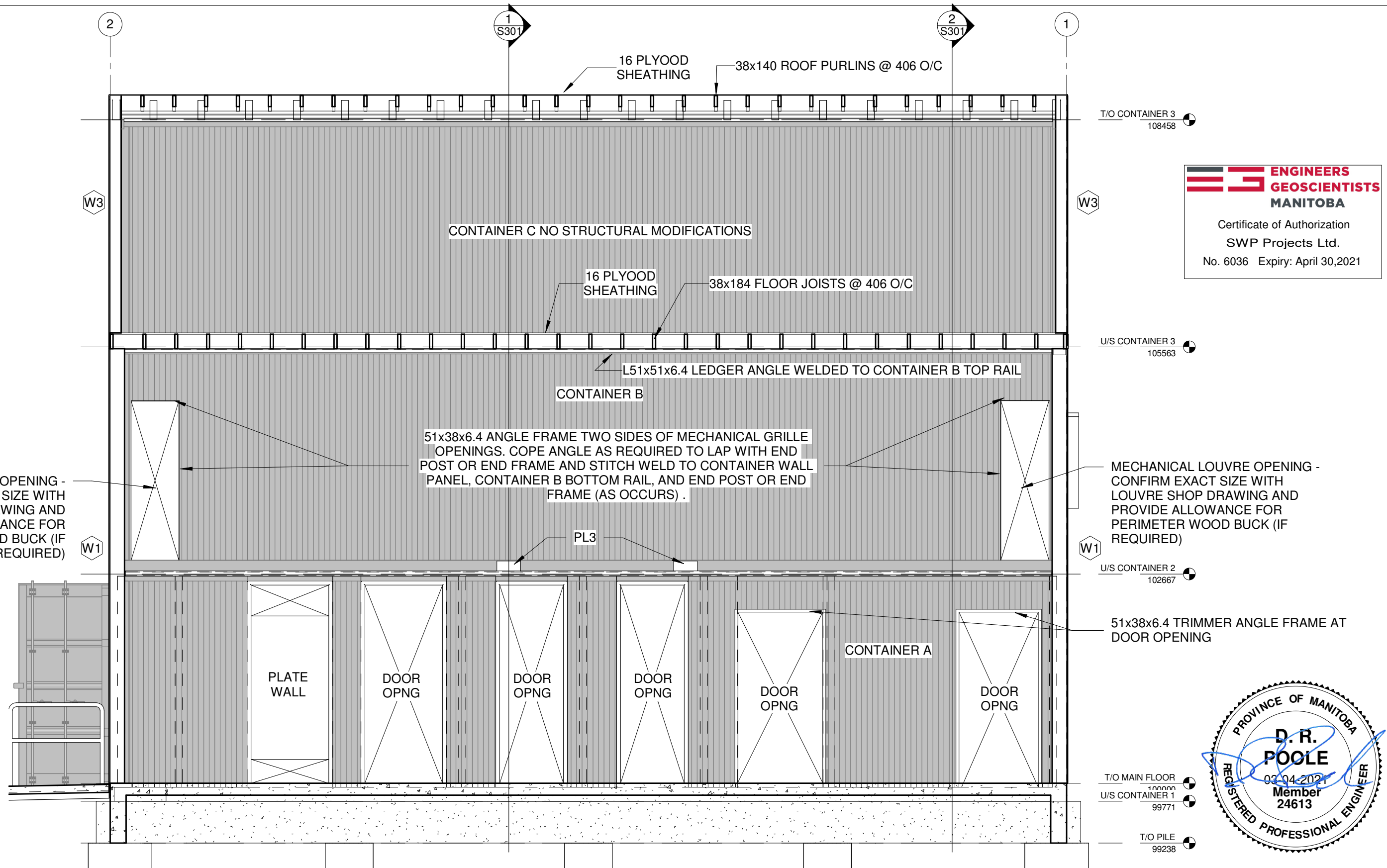
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No.	Description	Date
1	ISSUED FOR CONSTRUCTION	21-03-04

SECTION - GRID B - MECH.

Project number	20-104	S303
Date	2021-03-04	
Drawn by	DP	
Checked by	DP	
Scale 1 : 48		

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MECHANICAL LOUVRE OPENING -
CONFIRM EXACT SIZE WITH
LOUVRE SHOP DRAWING AND
PROVIDE ALLOWANCE FOR
PERIMETER WOOD BUCK (IF
REQUIRED)

MECHANICAL LOUVRE OPENING -
CONFIRM EXACT SIZE WITH
LOUVRE SHOP DRAWING AND
PROVIDE ALLOWANCE FOR
PERIMETER WOOD BUCK (IF
REQUIRED)

51x38x6.4 ANGLE FRAME TWO SIDES OF MECHANICAL GRILLE
OPENINGS. COPE ANGLE AS REQUIRED TO LAP WITH END
POST OR END FRAME AND STITCH WELD TO CONTAINER WALL
PANEL, CONTAINER B BOTTOM RAIL, AND END POST OR END
FRAME (AS OCCURS) .

51x38x6.4 TRIMMER ANGLE FRAME AT
DOOR OPENING



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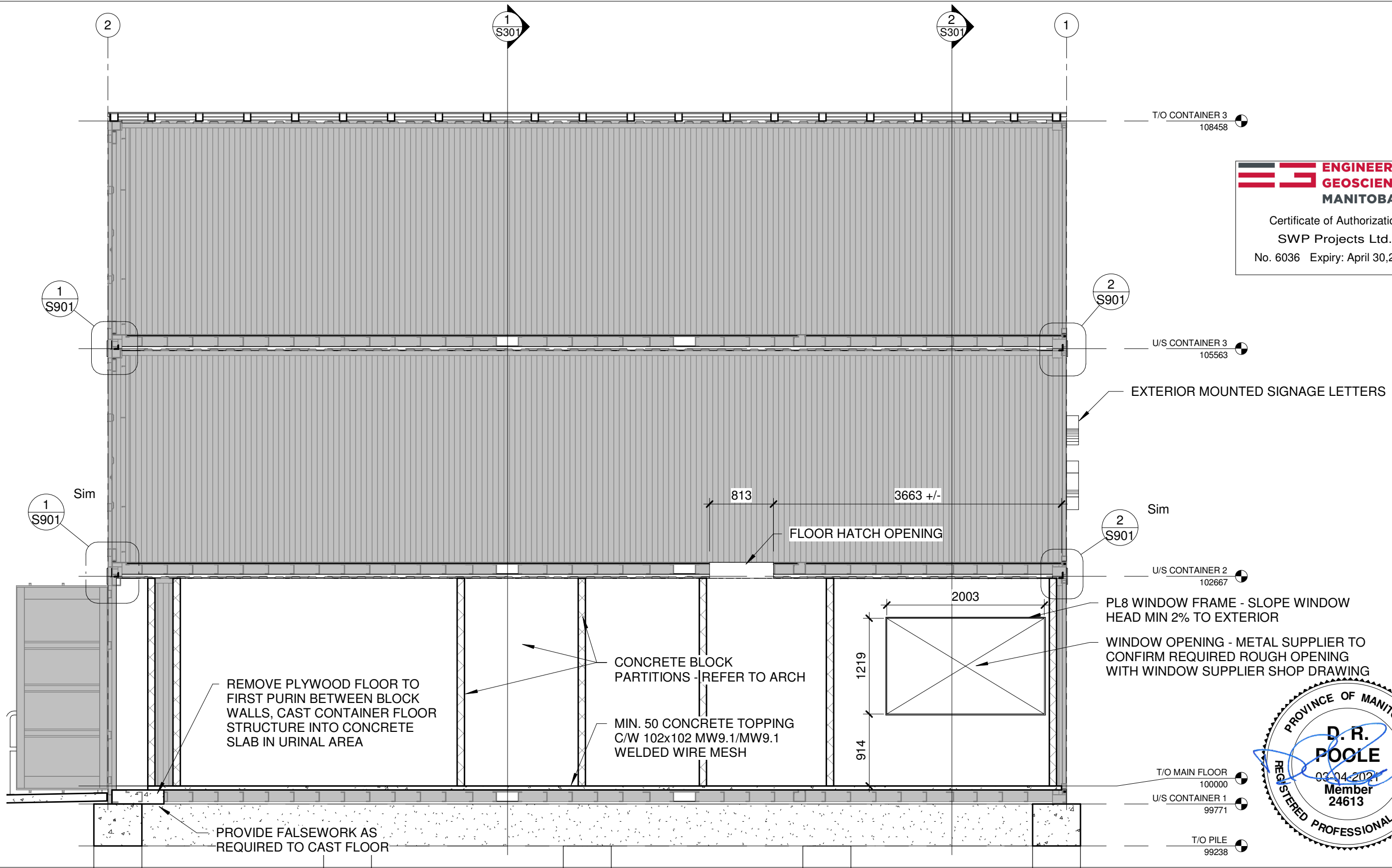
THE CITY OF WINNIPEG
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No.	Description	Date
1	ISSUED FOR CONSTRUCTION	21-03-04

SECTION - GRID B - SINKS

Project number	20-104
Date	2021-03-04
Drawn by	DP
Checked by	DP

S304
Scale 1 : 48



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PROVINCE OF MANITOBA
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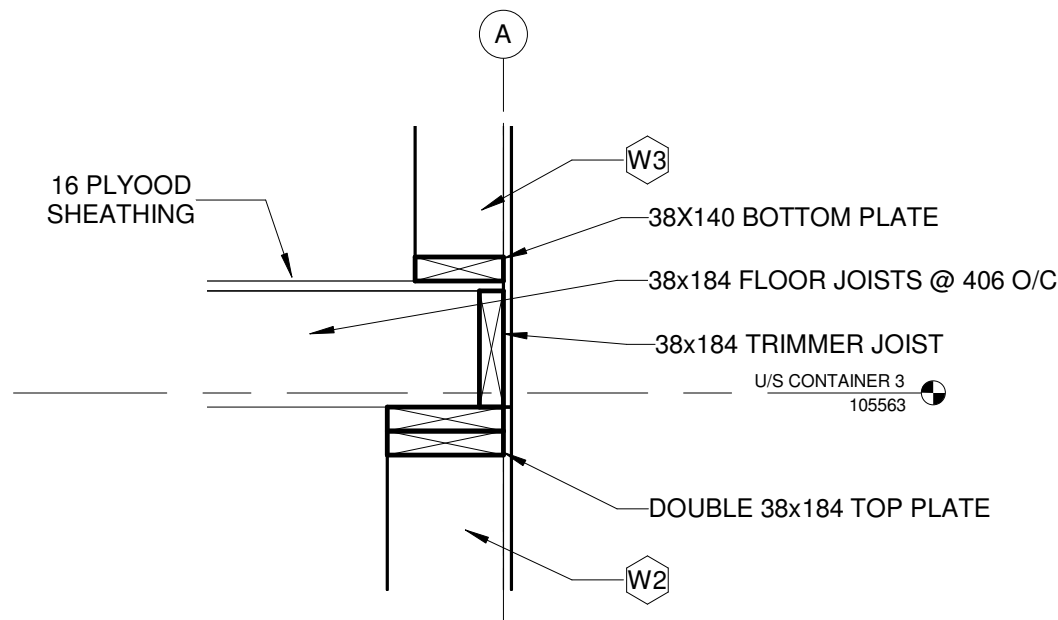
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No.	Description	Date
1	ISSUED FOR CONSTRUCTION	21-03-04

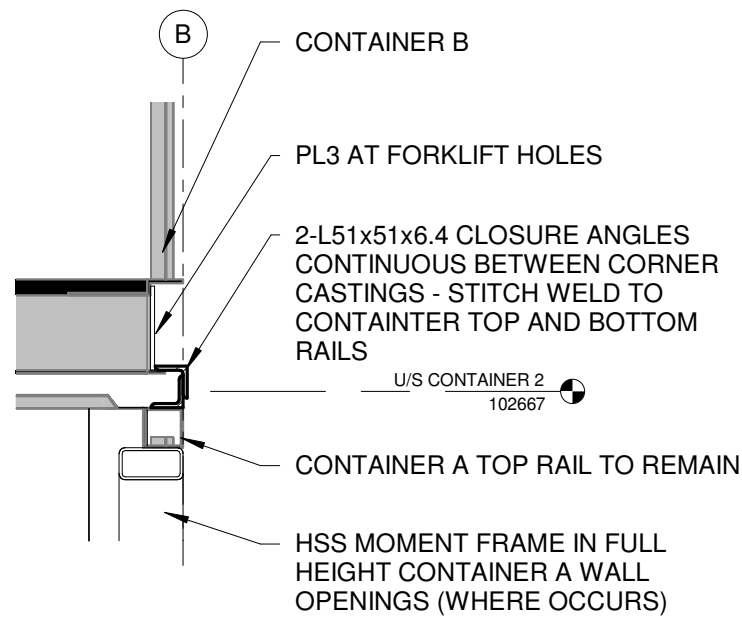
SECTION -GRID C - OFFICE		S305
Project number	20-104	
Date	2021-03-04	
Drawn by	DP	
Checked by	DP	
Scale 1 : 48		

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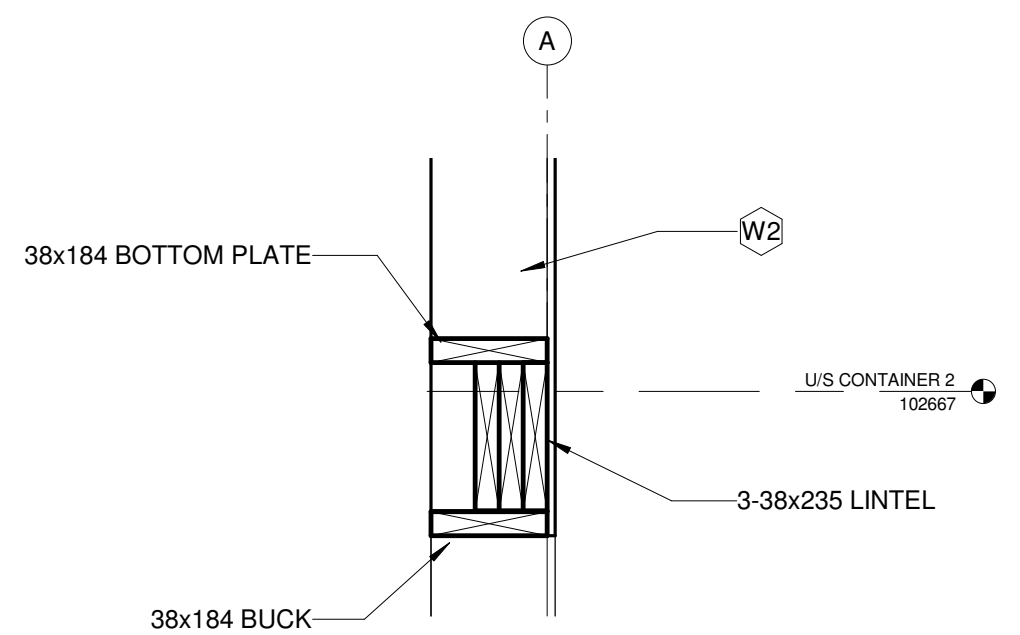
1 THIRD FLOOR - GRID A

S401 1 : 12



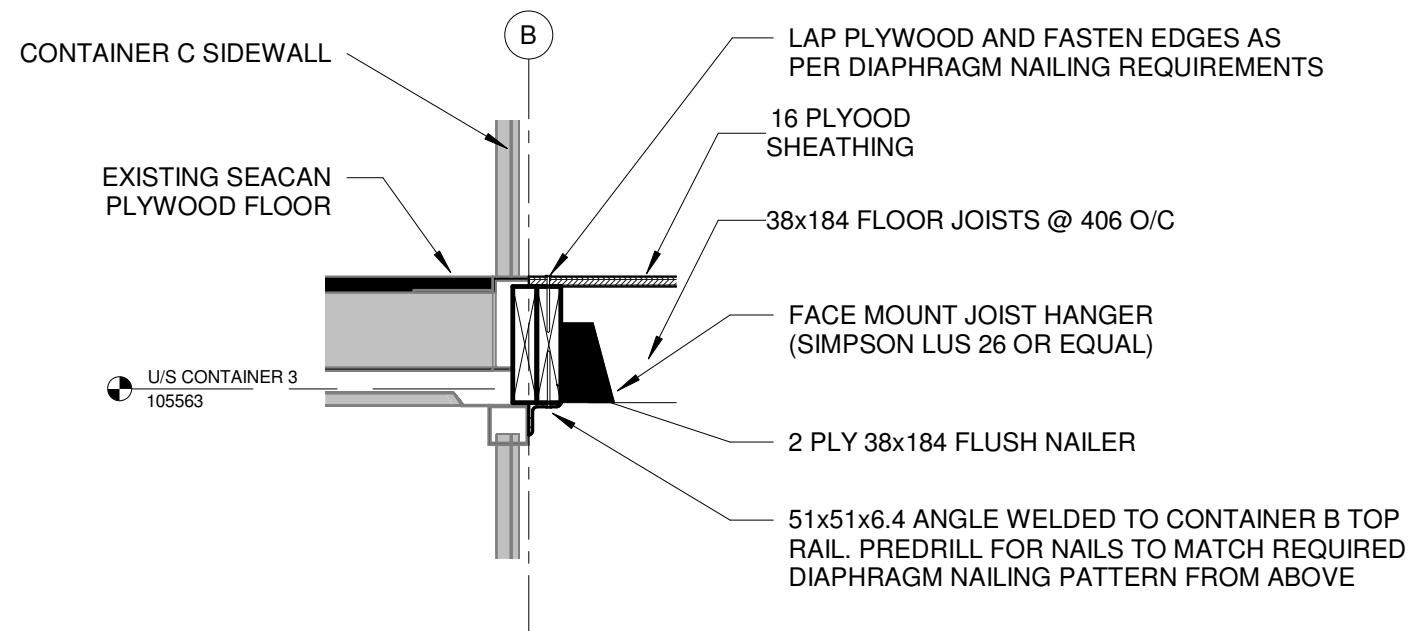
2 CONTAINER CLOSURE - TYP

S401 1 : 12



3 OVERHEAD DOOR LINTEL

S401 1 : 12



4 THIRD FLOOR - GRID B

S401 1 : 12

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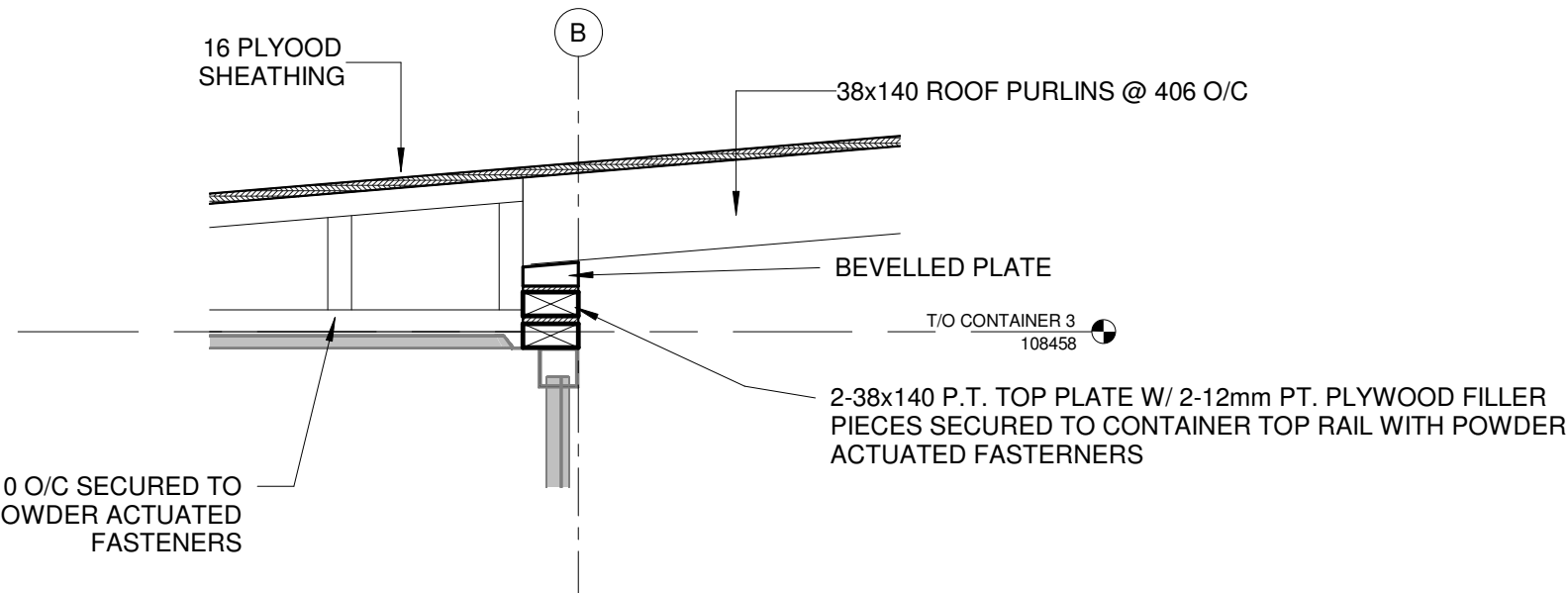
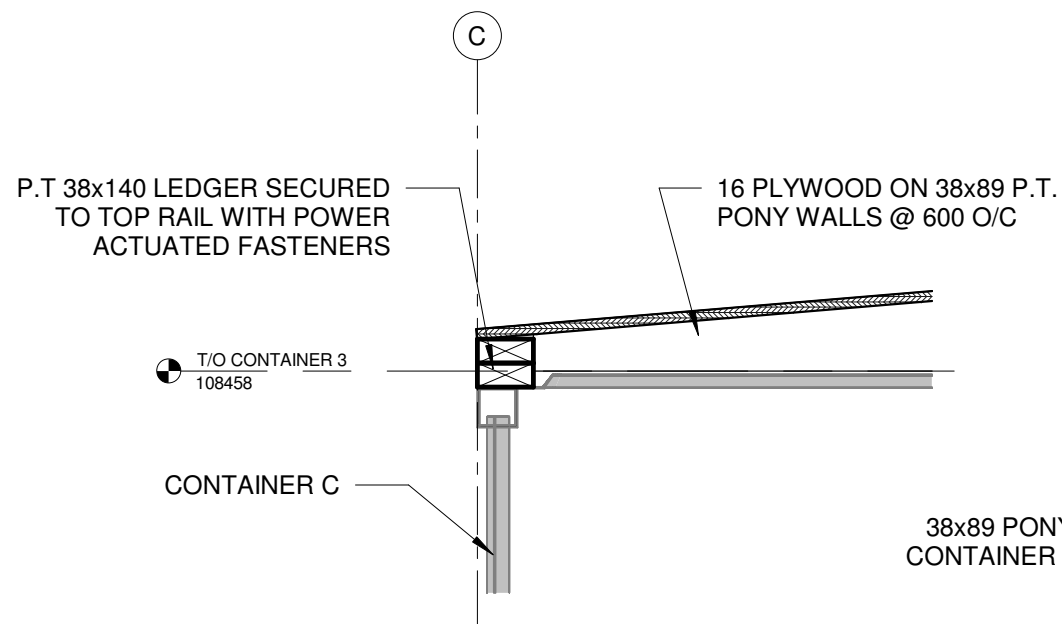
No.	Description	Date
1	ISSUED FOR CONSTRUCTION	21-03-04

SECTIONS AND DETAILS

Project number	20-104
Date	2021-03-04
Drawn by	DP
Checked by	DP

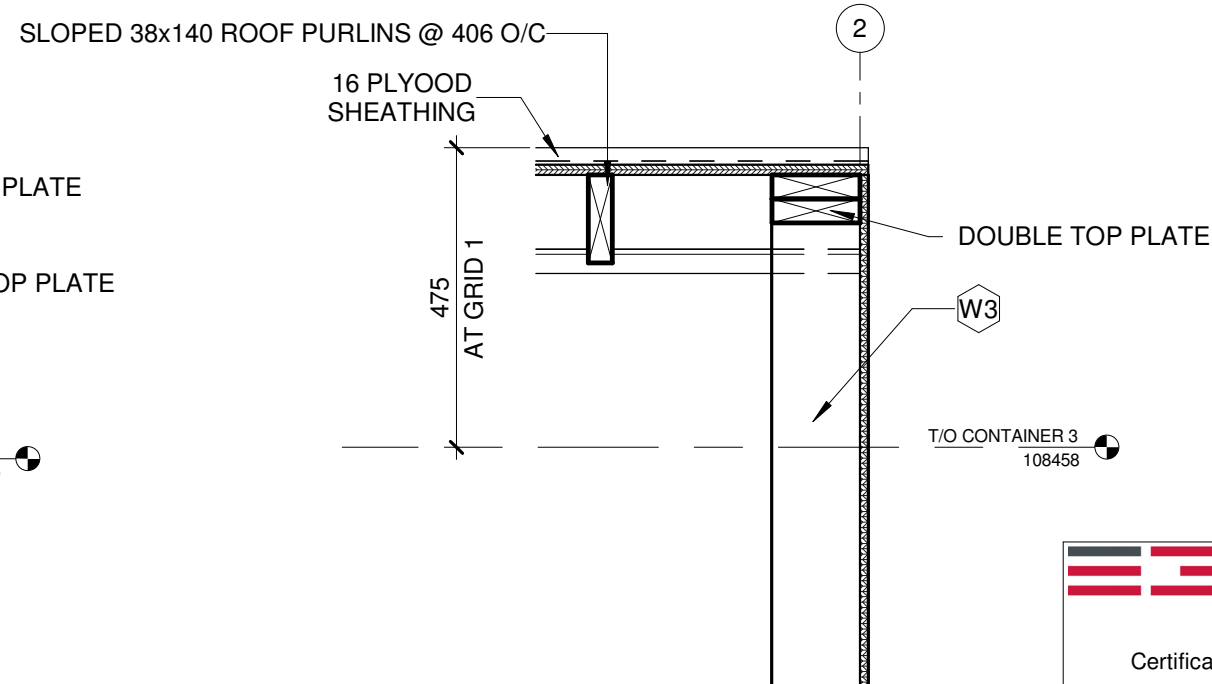
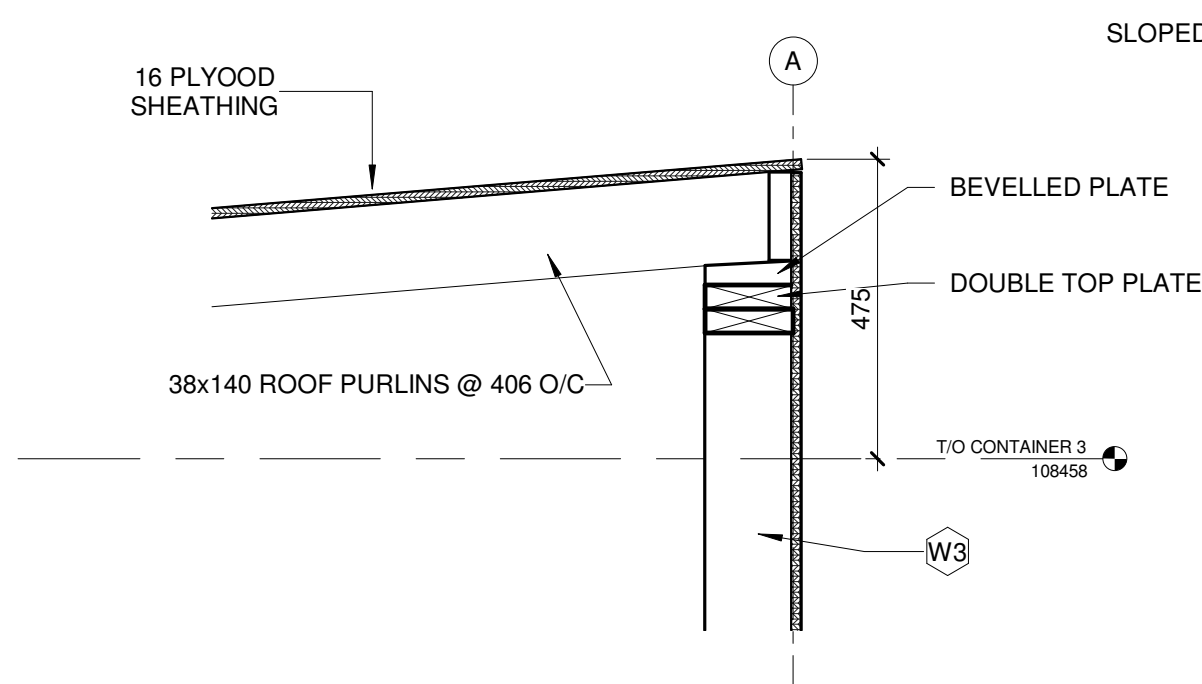
S401

Scale 1 : 12



1 ROOF SECTION - LOW SIDE
S402 1 : 12

2 ROOF SECTION - GRID B
S402 1 : 12



3 ROOF SECTION - HIGH SIDE
S402 1 : 12

4 WOOD SIDEWALL - ROOF
S402 1 : 12

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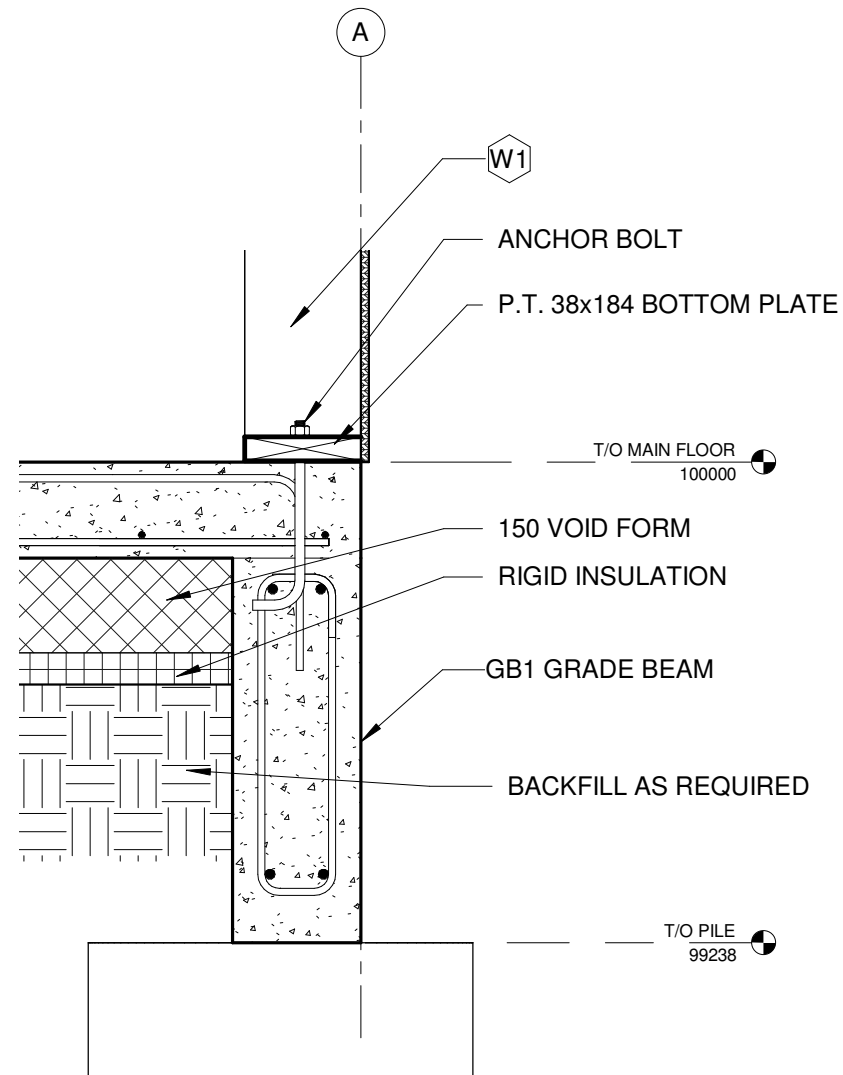
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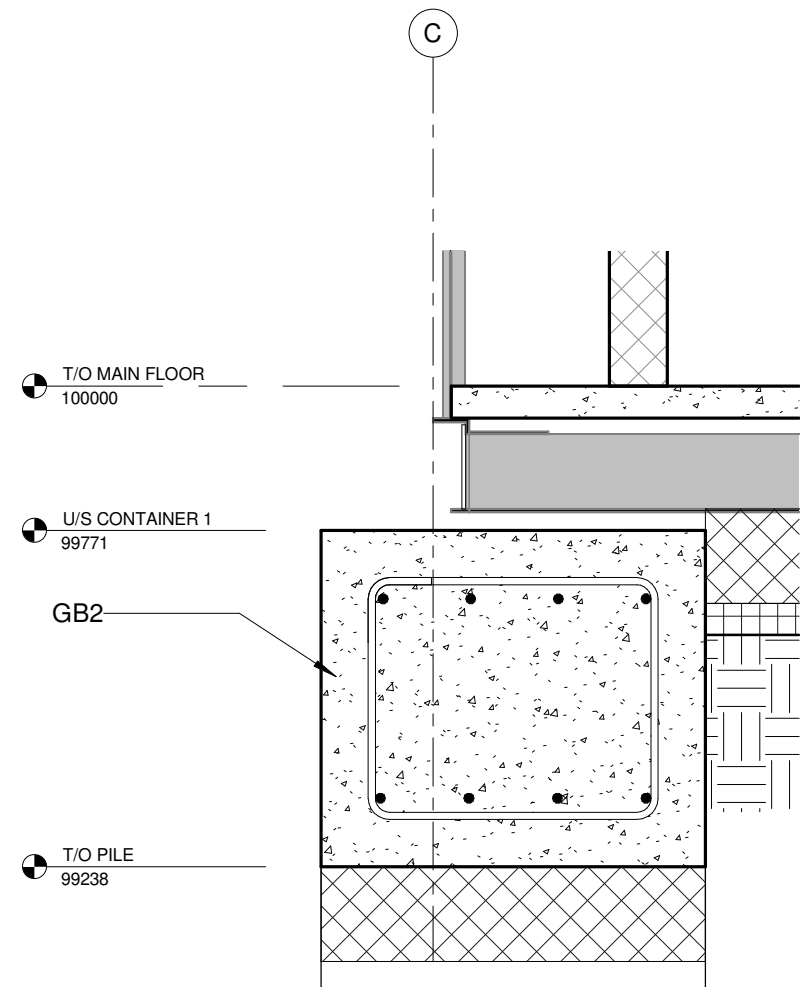
No.	Description	Date
1	ISSUED FOR CONSTRUCTION	21-03-04

SECTIONS AND DETAILS

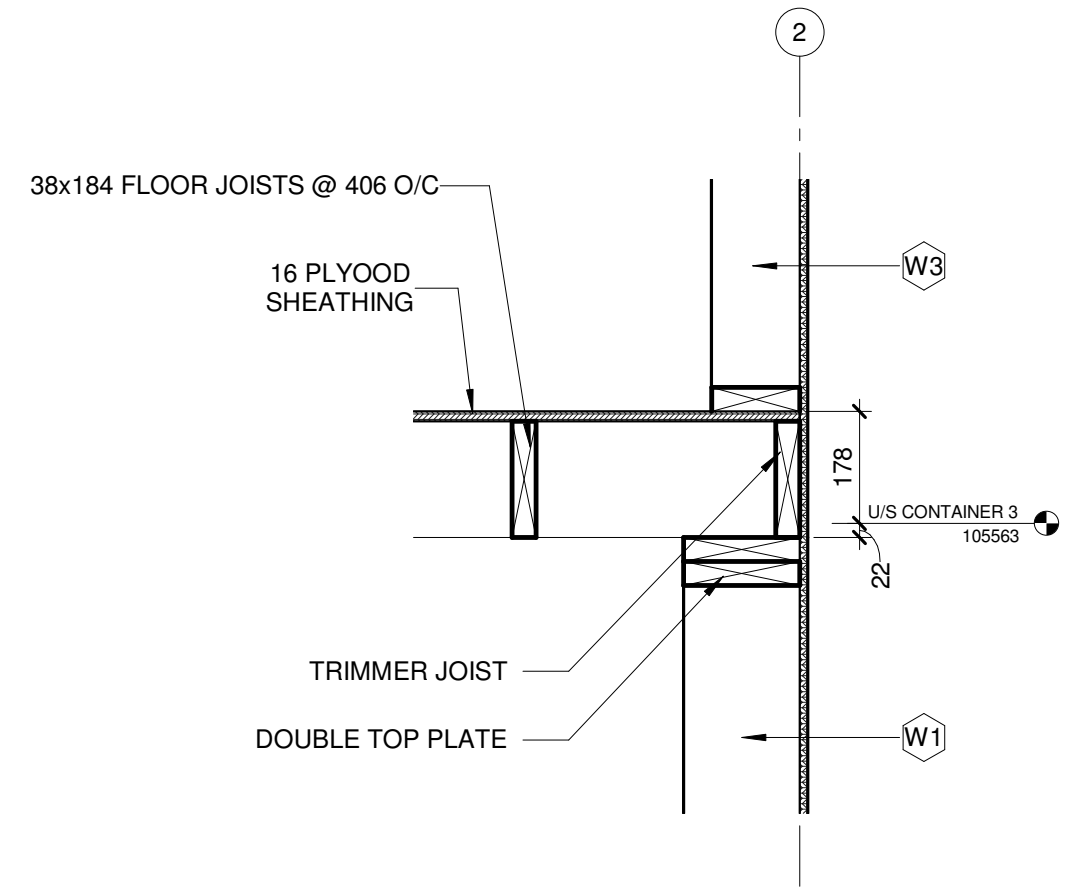
Project number	20-104	S402
Date	2021-03-04	
Drawn by	DP	
Checked by	DP	
Scale 1 : 12		



1 FDTN SECTION - GRID A
S403 1 : 12



2 FDTN SECTION - GRID C
S403 1 : 12



3 WOOD SIDEWALL - 3RD FLOOR
S403 1 : 12



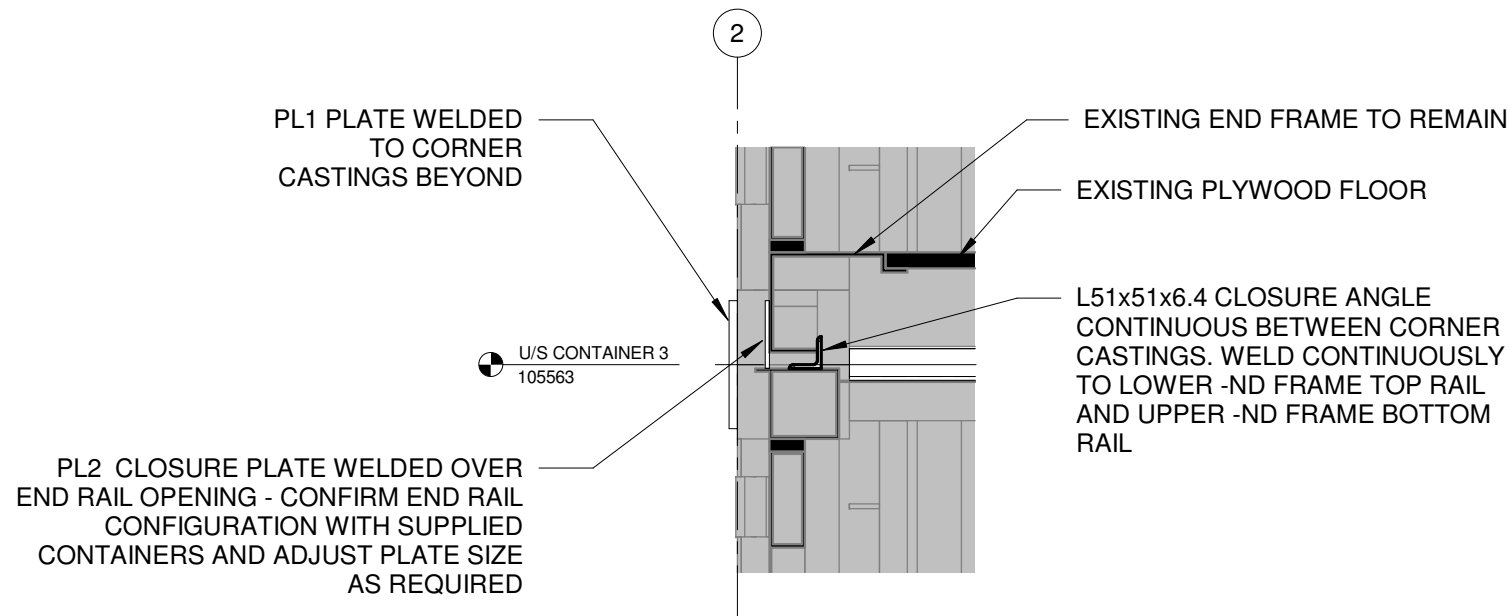
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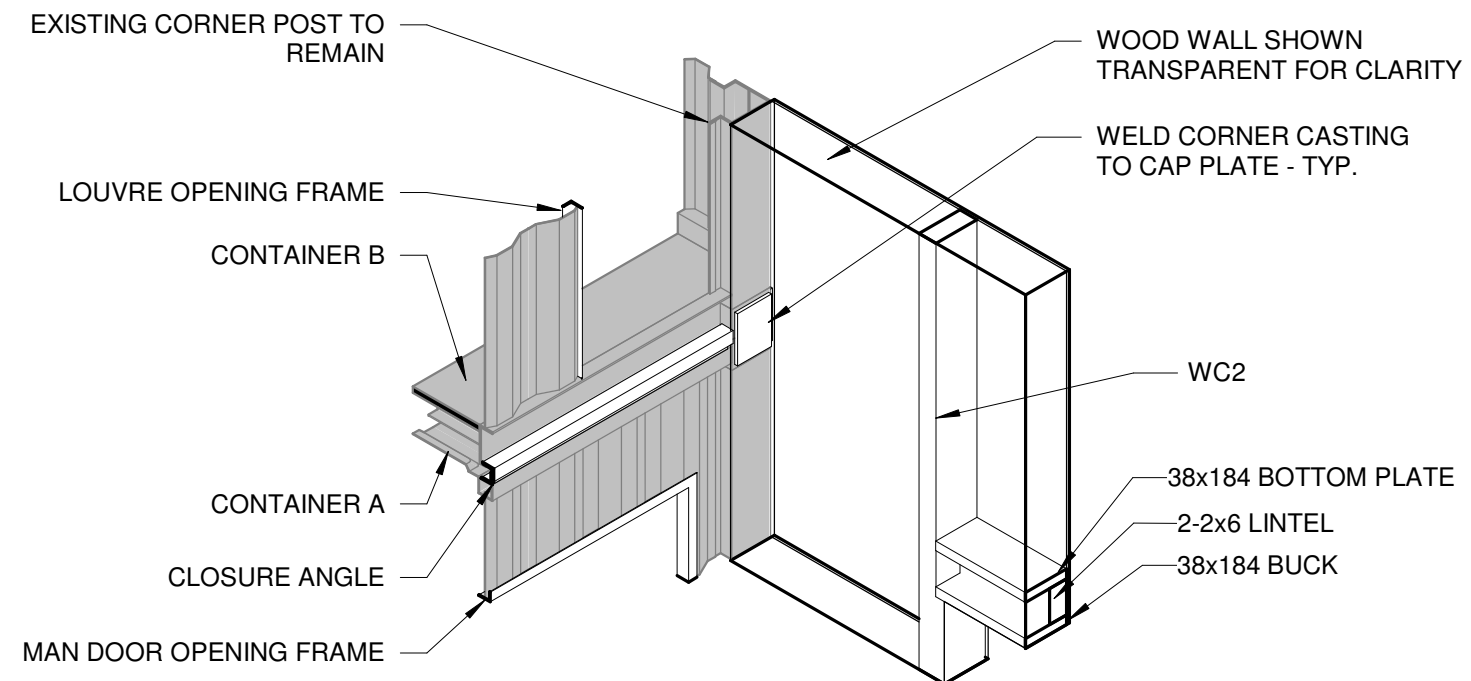
No.	Description	Date

SECTIONS AND DETAILS

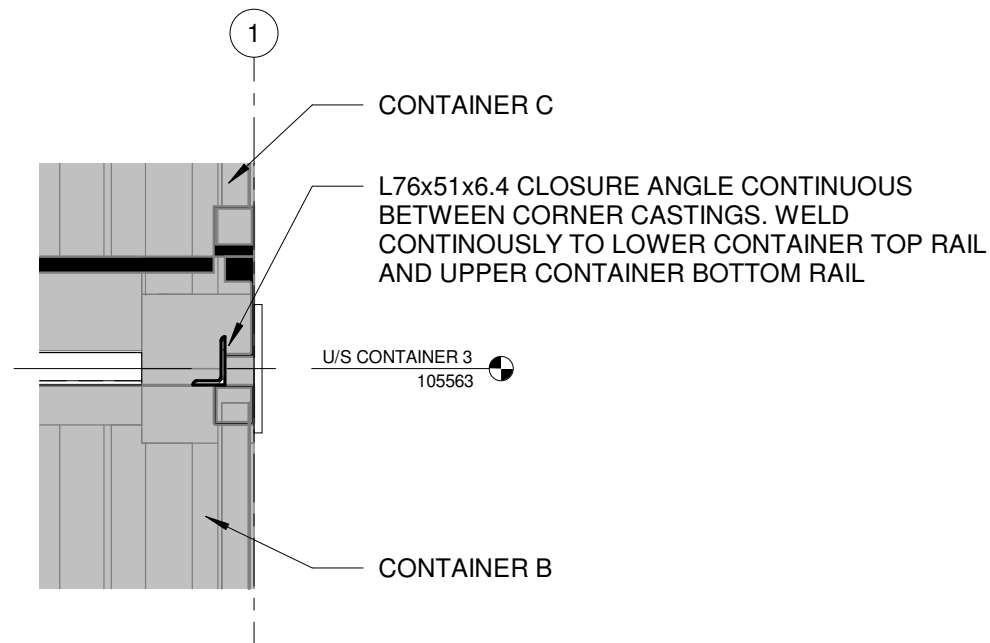
Project number	20-104	S403
Date	2021-03-04	
Drawn by	Author	
Checked by	Checker	
Scale 1 : 12		



1 GRID 2 - CONTAINER CLOSURE
S901 1 : 12



3 Grid B-1 - U/S CONTAINER 2 ISO
S901



2 GRID 1 - CONTAINER CLOSURE
S901 1 : 12

**ENGINEERS
GEOSCIENTISTS
MANITOBA**

Certificate of Authorization
SWP Projects Ltd.
No. 6036 Expiry: April 30, 2021

PROVINCE OF MANITOBA
D. R. POOLE
03-04-2021
Member
24613
REGISTERED PROFESSIONAL ENGINEER



SWP PROJECTS LTD.
678 MAIN STREET - 2ND FLR WINNIPEG, MB R3B 1E4
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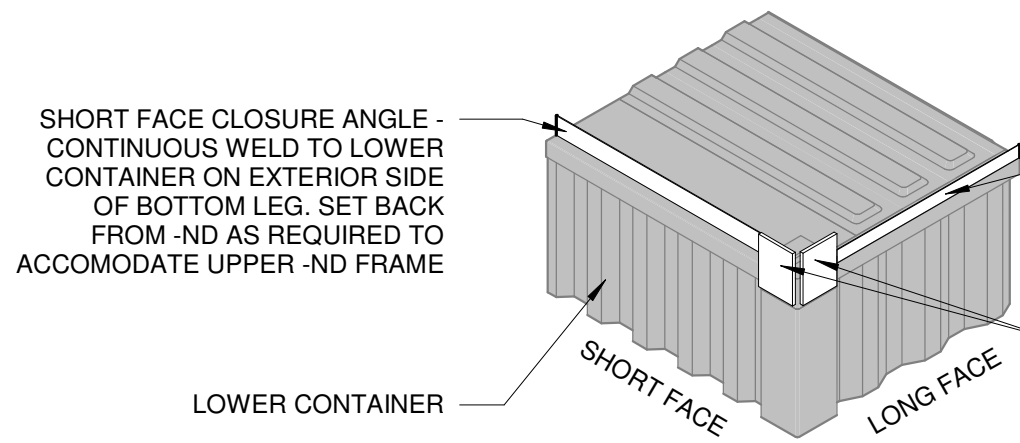
715 MAIN STREET PUBLIC TOILET

THE CITY OF WINNIPEG
BID OPPORTUNITY 54-2021

No.	Description	Date
1	ISSUED FOR CONSTRUCTION	21-03-04

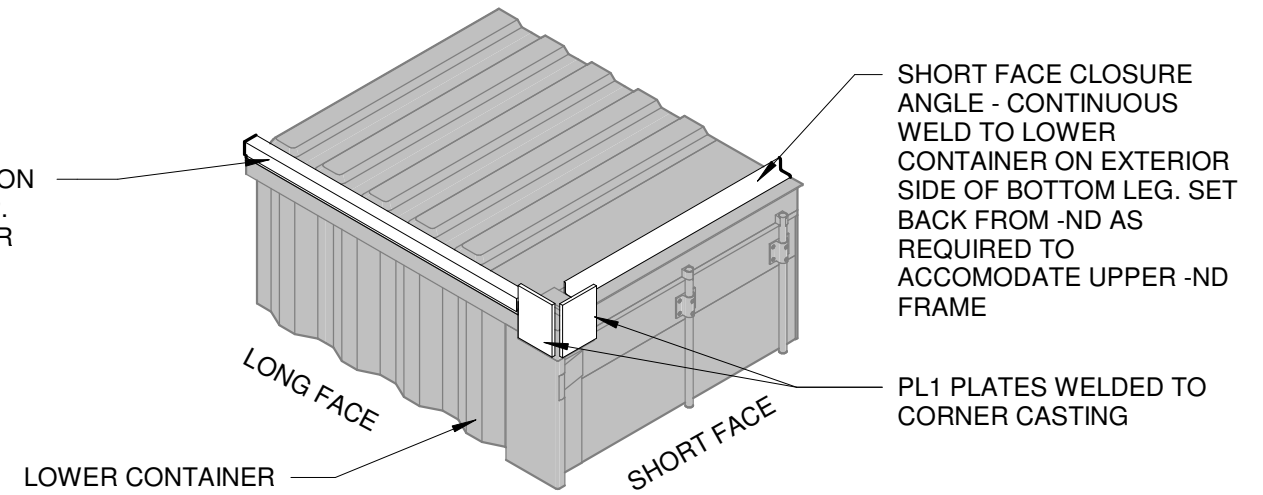
SECTIONS AND 3D DETAILS

Project number	20-104	S901
Date	2021-03-04	
Drawn by	DP	
Checked by	DP	
Scale 1 : 12		



LONG FACE CLOSURE ANGLE - LOWER ANGLE INSTALLATION RECOMMENDED PRIOR TO STACKING CONTAINER ON TOP. WELD CONTINUOUSLY TO LOWER CONTAINER ON EXTERIOR FACE OF BOTTOM LEG

PL1 PLATES WELDED TO CORNER CASTING

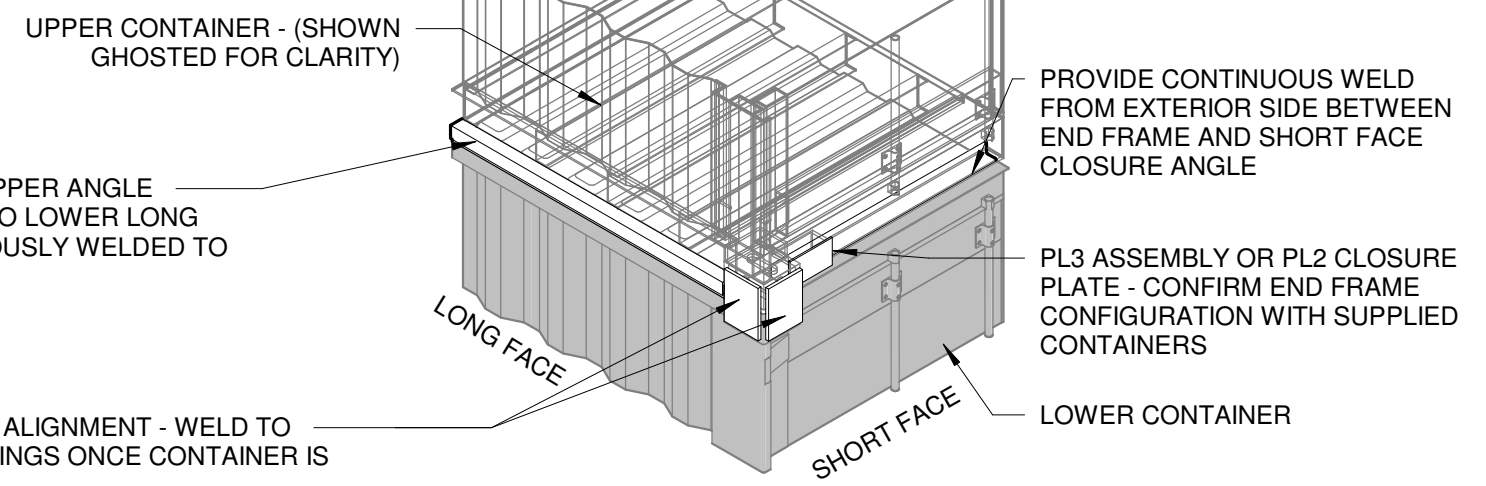
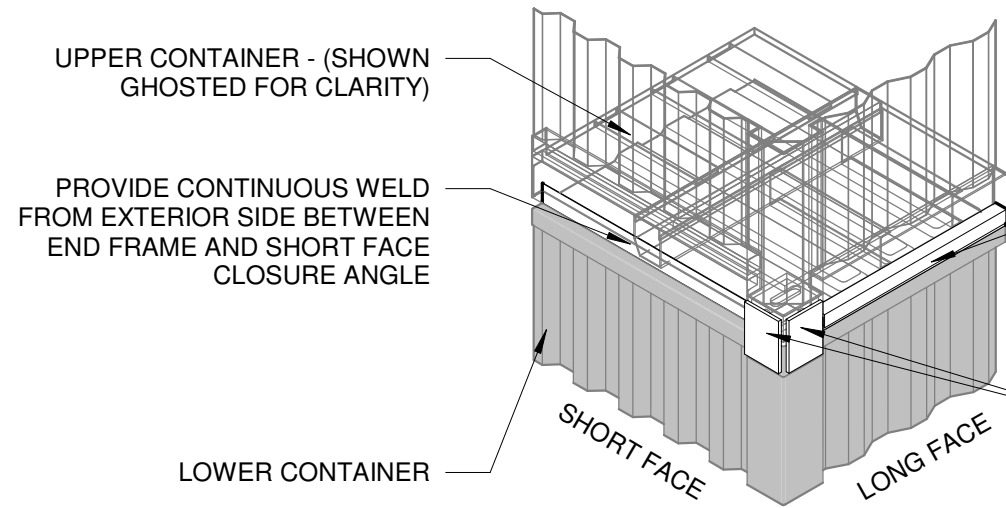


1 GRID 1 - CONTAINER TO CONTAINER - STAGE 1 - TYP.

S902

3 GRID 2 - CONTAINER TO CONTAINER - STAGE 1 - TYP.

S902



2 GRID 1 - CONTAINER TO CONTAINER - STAGE 2 - TYP.

S902

4 GRID 2 - CONTAINER TO CONTAINER - STAGE 2 - TYP.

S902

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BID OPPORTUNITY 54-2021

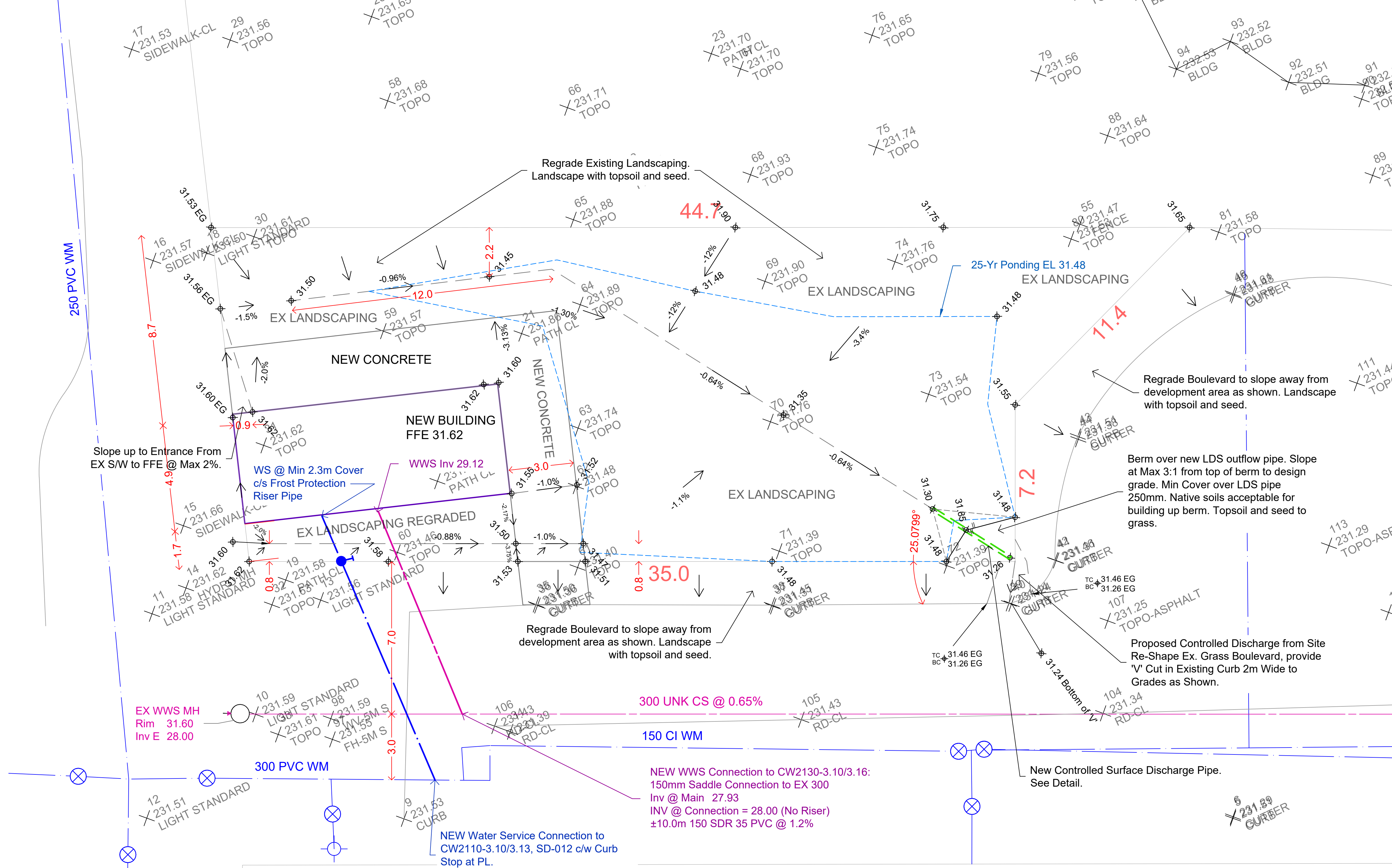
No.	Description	Date
1	ISSUED FOR CONSTRUCTION	21-03-04

3-D DETAILS

Project number	20-104	S902
Date	2021-03-04	
Drawn by	DP	
Checked by	DP	
Scale		



- Construction Specifications**
- All construction to conform to City of Winnipeg, *Standard Construction Specifications* and all references contained herein refer to these specifications. "SD" refers to City of Winnipeg standard details.
 - All materials used for construction must conform to City of Winnipeg, *Approved Products for Underground Use Within the City of Winnipeg* except as indicated otherwise.
- General Design Notes**
- No existing water or wastewater services to the site.
 - Proposed development is non-sprinklered.
 - No sump pits required.
- Service Connections**
- Water Service to CW-2110
 - 25mmØ Copper.
 - WWS & LDS Service
 - To CW2030/2130, Detail SD-014
 - 150mmØ SDR35 PVC
 - Bedding to be Class B according SD-001.
 - Backfill according to SD-002:
 - In paved areas Class 2 or 3.
 - In landscaped areas Class 5.SD-001 Class 'B' Bedding Typical
 - SD-002:
 - Class '5' Backfill in landscaped & untraveled areas
 - Class '2' Backfill in gravel, hard-surfaced & traveled areas
 - Consult Geotechnical Report and geotechnical engineer to confirm the suitability of native soils for backfill.
 - SD-027B for Meter installation
 - Flushing, Disinfection, Chlorination, Sampling & Testing to CW-2125.
- Pre- & Post-Development**
- Gross Site Area: 572 m²
 - See Tables for calculations.
 - This is a combined sewer district. *Clause 8 has been satisfied.*
- General Notes**
- Contractor to obtain all necessary permits.
 - Contractor to obtain clearances from all utilities before excavating. Confirm all existing infrastructure information in field before construction. Notify the Engineer immediately of any discrepancies that affect installation or design.
 - Confirm all dimensions before beginning construction.
 - Consult Geotechnical Report and geotechnical engineer to confirm the suitability of native soils for backfill.
 - Topographic Survey by Dixon & Co. 13 Jan 2021. Elevations are Geodetic using GPS Observations to GCVD28.
 - For abbreviated elevations add 200.00 to obtain geodetic elevations.
 - Existing mains information obtained from City of Winnipeg GIS.



PLAN 1:300
SERVICING & GRADING PLAN

Pre- & Post Development Conditions Table		
Wastewater Estimation	Pre-Dev	Post-Dev
ADWF	0.00 l/s	0.04 l/s
Extraneous	0.00 l/s	0.00 l/s
PDWF	0.00 l/s	0.17 l/s

Land Drainage		
Extraneous Flows	Pre-Dev	Post-Dev
Manholes/CBs	0.00 l/s	0.20 l/s

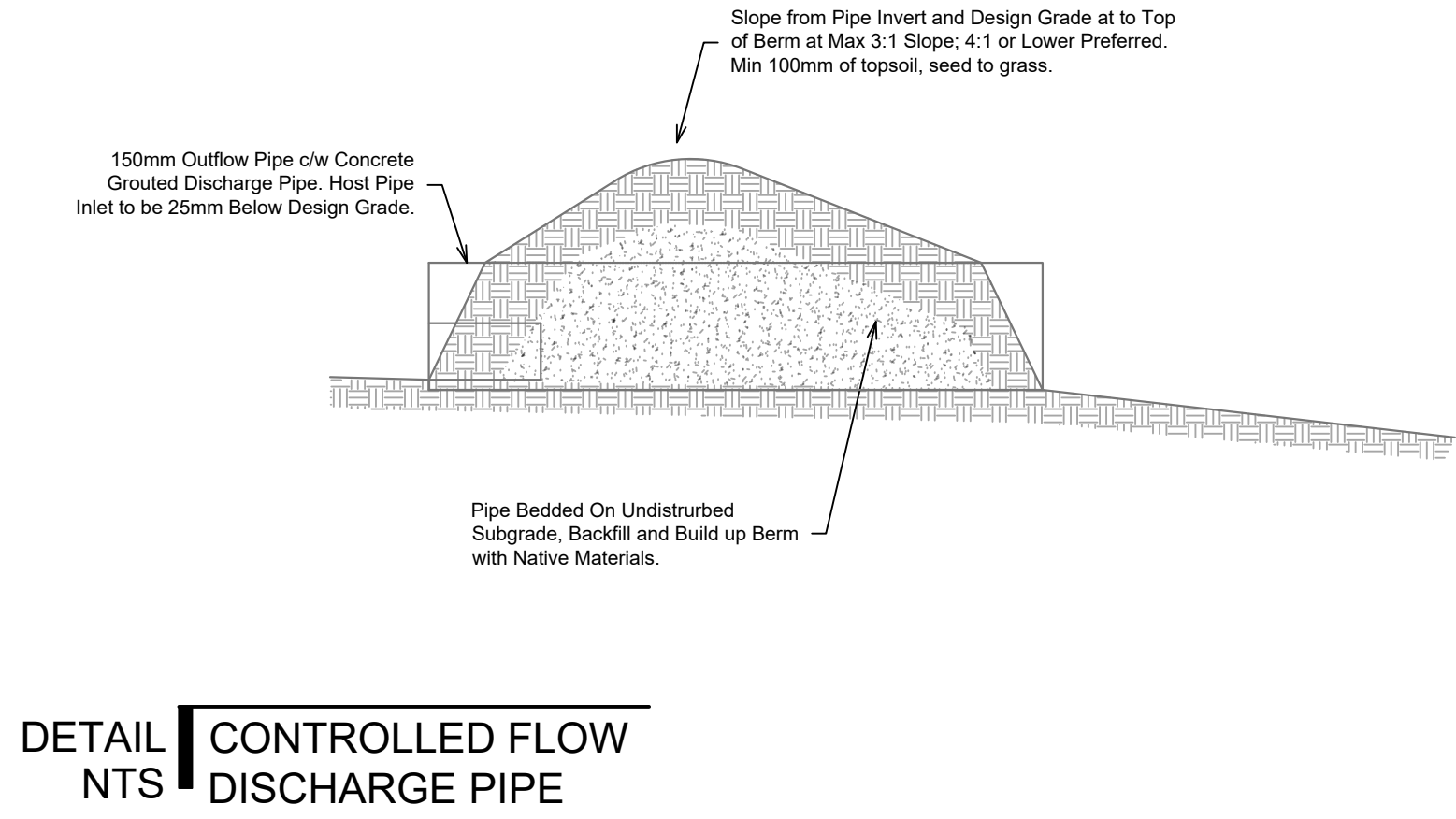
Surface Runoff		
	Pre-Dev	Post-Dev
5-Year Allowable per Isochrone	2.62 l/s	2.62 l/s
Actual Restricted Outflow	2.62 l/s	2.07 l/s

LDS Peak Flow		
	Pre-Dev	Post-Dev
LDS Peak Flow	2.62 l/s	2.27 l/s

Total Site Discharge		
	Pre-Dev	Post-Dev
WWS & LDS Flow Condition	2.62 l/s	2.44 l/s
Clause 8	Combined	Satisfied

WWS Flow Estimation - Post-Development			
Proposed Uses: Public Washroom			
Project Details			
Persons	300	users	
Site Area	0.05790	Ha	
Manholes	0	Each	
Weeping Tile	0	Each	
Wastewater Flow Estimates			
ADWF	0.04	lps	
Extraneous	0.00	lps	
Harmon PF	4.08		
PDWF	0.17	lps	
Design Criteria			
Wastewater Flow	12	l/cu/Day	0.00014 l/user/s
Occupancy	300	User/Day	
Extraneous Flows	4.5	L/MH/Min	0.075 L/Connect/s
Weeping Tile	12	L/MH/Min	0.200 L/MH/s
Groundwater	2200	L/Ha/Day	0.025 L/Ha/s
Sources			
Metcal & Eddy, Wastewater Engineering: Treatment & Resource Recovery			

WWS Flow Estimation - Pre-Development			
Previous Uses: grassed, vacant land.			
Project Details			
Number of Units	0	Site	
Persons	0	Site Area	0.0572
Manholes	0	Weeping Tile	0
Wastewater Flow Estimates			
ADWF	0.00	lps	
Extraneous	0.00	lps	
Harmon PF	4.50		
PDWF	0.00	lps	



DETAIL CONTROLLED FLOW DISCHARGE PIPE

LEGEND

EX	PROP
Slope Direction	0.64%
Topo Grade	100
150 WM	Watermain 150 WM
250 WWS	Wastewater Sewer 250 WWS
300 LDS	Land Drainage Sewer 300 LDS
Hydrant	Hydrant
Curb Stop	Curb Stop
Valve	Valve
Manhole	Manhole
Catch Basin	Catch Basin
Ponding Area	Ponding Area

UNITS: Whole numbers are millimetres (mm)
Decimal numbers are metres (m)
Convert Metric to Standard: 1.0m = 3.2808ft

designed: DH
drawn: DH
approved: DH

project code: 21-001
scale: As Shown
sheet title: Lot Grading & Servicing Plan



ENGINEERS
D.W. HAINES
Member No. 32664
Certificate of Authorization
7/07/98
of a Sandbox Design & Consulting
No. 7281

R4 24 FEB 21 CONSTRUCTION
R3 27 JAN 21 CONSTRUCTION
R2 23 JAN 21 CONSTRUCTION
R1 20 JAN 21 FOR REVIEW