

City of Peterborough

BEAVERMEAD CAMPGROUND

GATEHOUSE

Peterborough, ON K9L 1P8

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SHEET NO.	SHEET NAME
ARCHITECTURAL	BUILDING INFORMATION & GENERAL NOTES
A-001	SITE PLAN
A-101	DEMOLITION PLAN
A-102	GROUND FLOOR PLAN
A-111	FOUNDATION AND SIDEWALK PLAN
A-112	ROOF & CEILING PLANS AND ELEVATIONS
A-121	BUILDING SECTIONS
A-301	WALL SECTIONS
A-311	DETAILS
A-501	DETAILS
A-502	DETAILS
A-503	DETAILS
A-701	DOORS, WINDOWS & SCREENS
A-901	ISOMETRIC DRAWINGS

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CONCEPTUAL IMAGE ONLY - NOT ACTUAL CONSTRUCTION

Job No.: 20-120
ISSUED FOR TENDER
2021/09/09

BEAVERMEAD CAMPGROUND
GATEHOUSE
Peterborough,
ON K9L 1P8



NOTES

EQUIP	EQUIPMENT
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FA	FIRE ALARM
FB	FACE BRICK
FD	FLOOR DRAIN
FD	FLOOR DRAIN OR FIRE DEPARTMENT
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FFC	FIRE EXTINGUISHER CABINET
FFB	FURNITURE, FIXTURES AND EQUIPMENT
FFB	FLUSH FLOOR BOX
FH	FLAT HEAD
FHC	FIRE HOSE EVAPORATION
FIN	FINISH
FIXT	FIXTURE
FLASH	FLASHING
FLR	FLOOR
FLU	FLUORESCENT
FND	FOUNDATION
FO	FACE OF
FP	FIRE PROTECTION
FPF	FIREPROOFING
FR	FIRE RESISTANT
FRF	FIBER REINFORCED CONCRETE
FRT	FIRE RETARDANT TREATED
FT	FEET/FOOT
FTG	FOOTING
FURN	FURNITURE
FURR	FURRING
FWC	FABRIC WALL COVERING
FWP	FABRIC WRAPPED PANEL
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACT(OR)
GEN	GENERAL
GFRG	GLASS FIBER REINFORCED CONCRETE
GL	GLASS
GLAZ	GLAZING
GRAN	GRANULAR
GRD	GROUND
GRFG	GLASS FIBER REINFORCED GYPSUM
GS	GLASS REINFORCED SHEET METAL
GV	GAS VALVE
GWB	GYPSUM WALL BOARD
HTP	GYPSUM
H	
H	HIGH/HEIGHT
HB	HOSE BIB
HB	HOSE BIBB
HIC	HANDICAPPED
HDWD	HARDWOOD
HDWR	HARDWARE
HGT	HEIGHT
HM	HOLLOW METAL
HNDRL	HANDRAIL
HO	HOLD OPEN
HORIZ	HORIZONTAL
HOUR	HOUR
HRC	HOSE REEL CABINET
HTG	HEATING
HVAC	HEATING VENTILATION AND AIR CONDITIONING
HW	HOT WATER
I	
ID	INSIDE DIAMETER
IN	INCH/INCHES
INCAND	INCANDESCENT
INCL	INCLUDED/INCLUDING
INFO	INFORMATION
INSUL	INSULATION
INSUL	INSULATED OR INSULATION
INT	INTERIOR
INTERM	INTERMEDIATE
IN	INVERT
J	
JAN	JANITOR
JC	JANITOR'S CLOSET
JST	JOIST
JO	JOINT
K	
K	KITCHEN
KIT	KNOCK OUT
L	
L	LAMINATE
LAV	LAVATORY
LB	POUNDS
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LT	LIGHT
M	
M	MASONRY
MAX	MAXIMUM
MECH	MECHANICAL
MD	MEDIUM
MEMBR	MEMBRANE
MFR	MANUFACTURER
MH	MAN HOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING

MR	MOISTURE RESISTANT
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MULL	MULLION
N	
N	NORTH
NA	NOT APPLICABLE
NC	NOISE CRITERIA
NC	NOT IN CONTRACT
N	NUMBER
NOM	NOMINAL
NON	NON COMBUSTIBLE
COMB	
NTS	NOT TO SCALE
O	
OA	OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER
OD	OVERFLOW DRAIN
OFCl	OWNER FURNISHED, CONTRACTOR INSTALLED
OFF	OFFICE
OFCl	OWNER FURNISHED, OWNER INSTALLED
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
P	
P	PAINT
PAV	PAVING
PBD	PARTICLE BOARD
PC	PRECAST
PF	POWER DRIVEN FASTENER
PERF	PERFORATED
PERIM	PERIMETER
PERP	PERPENDICULAR
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT OR SHED
POL	POLISHED
PR	PAIR
PRFAB	PREFABRICATED
PRJ	PROJECT
PSF	POUNDS PER SQUARE FOOT
PT	POINT
PT	PRESSURE TREATED
PTD	PAINTED
PTV	PT FINITION
PVC	POLYVINYL CHLORIDE
Q	
Q	QUARRY TILE
QTY	QUANTITY

R	RADIUS/RISER
RA	RETURN AIR
RAD	RADIUS
RD	RESILIENT BASE
RBR	RUBBER
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REC	RECESSED
RECPCT	RECEPTACLE
REF	REFERENCE
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCED REINFORCING
REINF	REINFORCED
REL	RELOCATE
REM	REMOVABLE
RECOM	RECOMMENDED
REQ	REQUIRED/REQUIRED
REOD	REQUIRED
RESIL	RESILIENT
REV	REVISION/REVISED
RM	ROOM
RO	ROUGH OPENING
RTD	RATED
RTG	RATING
RWL	RAIN WATER LEADER
S	SOUTH
SA	SUPPLY AIR
SAF	SELF ADHERED FLASHING
SCH	SOLID CORE
SCHED	SCHEDULE
SCL	STRUCTURAL COMPOSITE
	LUMBER
SD	STORM DRAIN
SECT	SECTION
SF	SQUARE FEET/FOOT
SH	SPRINKLER HEAD
SHR	SHOWER
SHT	SHEET
SIM	SIMILAR
SM	SHEET METAL
SM	SURFACE MOUNTED
SP	STANDPIPE
SPEC	SPECIFICATION
SPEC	SPEAKER OR SPECIFICATION
SPK	SPEAKER
SPKR	SPEAKER
SS	SO
SS	STAINLESS STEEL
SSK	SERVICE SINK
STA	STATION
STC	SOUND TRANSMISSION COEFFICIENT
STL	STEEL
STOR	STORAGE
STRG	STRINGER
STRUCT	STRUCTURAL
STRUCT	STRUCTURE OR STRUCTURAL

SUBCAT	SUBCATEGORY
SUSP	SUSPENDED
SYM	SYMMETRICAL
SYS	SYSTEM
T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TB	TOWEL BAR
TEL	TELEPHONE/TELECOM
TELE	TELEPHONE
TEMP	TEMPERATURE
TEMP	TEMPORARY
THK	THICKNESS
THRU	THROUGH
TKBD	TACK BOARD
TLT	TOLLET
TMPD	TEMPERED
TO	TOP OF
TOB	TOP OF BEAM
TOS	TOP OF CONCRETE
TOS	TOP OF STEEL
TS	TUBE STEEL
TV	TELEVISION
TYP	TYPICAL
U	
UNFIN	UNFINISHED
UN	UNLESS NOTED OTHERWISE
UNL	UNLESS OTHERWISE NOTED
URNL	URNAL
V	
VAC	VENTILATION AND AIR CONDITIONING
VAR	VARIATION
VCT	VIRAL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VP	VISION PANEL
VR	VAPOR RETARDER
VT	VINYL TILE
VWC	VINYL WALL COVERING
W	
W/W	WIDE/WEST
W/O	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WIN	WINDOW
WM	WIRE MESH
WP	WATERPROOF/WATERPROOFING
WPM	WATERPROOF MEMBRANE
WS	WEATHER-STRIPPING
WST	WEBCAST
WT	WEIGHT
WV	WATER VALVE
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH

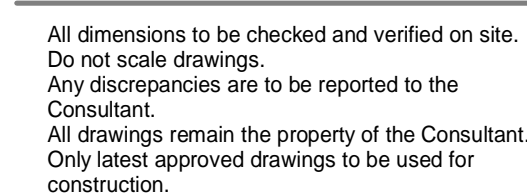
ITEM	2012 ONTARIO BUILDING CODE DATA MATRIX - PARTS 3 AND 9				OBC REFERENCE		
					REFERENCES ARE TO DIVISION C UNLESS NOTED [A] FOR DIVISION A OR [C] FOR DIVISION C.		
01	PROJECT DESCRIPTION:		<div>■ NEW □ ADDITION □ ALTERATION □ CHANGE OF USE</div>		■ PART 11 11.1 TO 11.4	■ PART 3 1.1.2[A]	■ PART 9 1.1.2[A] & 9.10.1.3.
THE PROJECT INTENT IS TO REPLACE THE CURRENT GATEHOUSE CABIN INCLUDING AN INFORMATION KIOSK AND FOR SALES OF CAMPING RESERVATIONS AND FIREWOOD. WITH A NEW ONE WITH ITS IMMEDIATE SURROUNDINGS. TOILET FACILITIES ARE AVAILABLE AT THE NEARBY WASHROOM PAVILION							
THIS BUILDING IS MOSTLY OPEN AIR AND IS ONLY BEING UTILIZED FOR THREE (3) SEASONS AND CLOSED FOR THE WINTER SEASON. THERE IS NO OCCUPANCY DURING THE WINTER MONTHS, AND THEREFORE, SB10 DOCUMENTS AND CODE REQUIREMENTS ARE NOT REQUIRED.							
02	MAJOR OCCUPANCY(S): GROUP E						9.10.2.
03	BUILDING AREA (m²):	EXISTING: 0 m²	NEW: 34 m²	TOTAL: 34 m²			1.4.1.2.[A]
04	GROSS FLOOR AREA (m²):	EXISTING: 0 m²	NEW: 42 m²	TOTAL: 42 m²			1.4.1.2.[A]
05	MEZZANINE(S) AREA (m²):	EXISTING: 0 m²	NEW: 0 m²	TOTAL: 0 m²			9.10.4.1.
MEZZANINE 10% OR LESS ENCLOSED AREA (m²):				0 m²			
MEZZANINE 40% OR MORE UNCLOSED AREA (m²):				0 m²			
06	NUMBER OF STOREYS: ABOVE GRADE: 1		BELOW GRADE: None				1.4.1.2.[A] 9.10.4.
07	BUILDING HEIGHT (m): 4.2 m						
08	NUMBER OF STREETS / FIRE FIGHTER ACCESS: 1						9.10.20.
09	BUILDING CLASSIFICATION: GROUP E, 1 STOREY						9.10.2.
10	SPRINKLER SYSTEM PROPOSED:		<div>□ ENTIRE BUILDING □ SELECTED COMPARTMENTS □ SELECTED FLOOR AREAS □ BASEMENT ONLY □ IN LIEU OF ROOF RATING ■ NOT REQUIRED</div>				9.10.8.2. INDEX INDEX
11	STANDPIPE SYSTEM REQUIRED:	□ YES	■ NO				N/A
HOSE CABINET LOCATION:		30.0M MAX. + 3.0M HOSE STREAM					
12	FIRE ALARM REQUIRED:	□ YES	■ NO				9.10.18.
13	WATER SERVICE/SUPPLY IS ADEQUATE:	■ YES	□ NO				N/A
14	HIGH BUILDING:	□ YES	■ NO				N/A
15	CONSTRUCTION RESTRICTIONS:						
REQUIRED:		□ COMBUSTIBLE PERMITTED		□ NON-COMBUSTIBLE	■ BOTH		
PROVIDED:		□ COMBUSTIBLE		□ NON-COMBUSTIBLE	■ BOTH		
16	HAZARDOUS SUBSTANCES:		□ YES		■ NO		
17	BARRIER-FREE DESIGN:		■ YES		□ NO (EXPLAIN):		9.5.2.
18	BARRIER-FREE ENTRANCES:						
No. OF ENTRANCES REQ'D TO BE BARRIER FREE: 1							
POWER DOOR OPERATORS REQ'D:		□ YES		■ NO			
19	REQUIRED FIRE RESISTANCE RATINGS:	HORIZONTAL ASSEMBLIES FIRE RESISTANCE RATINGS (F.R.R.)		LISTED DESIGN No. (ULC) OR ASSEMBLY DESCRIPTION (SB-2)			9.10.6. 9.10.8. 9.10.9.
		FLOOR: N/A		FLOOR: N/A			
		ROOF: N/A		ROOF: N/A			
		MEZZANINE: N/A		MEZZANINE: N/A			
		FIRE RESISTANCE RATINGS OF SUPPORTING MEMBERS (F.R.R.)		LISTED DESIGN No. (ULC) OR ASSEMBLY DESCRIPTION (SB-2)			
		FLOOR: N/A		FLOOR: N/A			
		ROOF: 0 MIN		ROOF: N/A			
		MEZZANINE: 0 MIN		MEZZANINE: N/A			
20	REQUIRED SEPERATION FIRE RESISTANCE RATINGS:	SPACE NAME:		REQUIRED RATING:			
		SUITES		N/A			
		PUBLIC CORRIDORS		N/A			
		JANITOR ROOMS		N/A			
		SERVICE ROOMS		N/A			
		VERTICAL SERVICE SPACES		N/A			
		ELEVATOR - HOISTWAY		N/A			
		ELEVATOR - MACHINE ROOM		N/A			
		EXITS - STAIR TOWERS		N/A			
		EXITS - CORRIDORS		N/A			
		LOBBY SEPARATION TO OTHER EXITS		N/A			
21	EXITS:	MAX. TRAVEL DISTANCE:		15 m			
22	OCCUPANT LOAD:						9.9.1.3.
OCCUPANT LOAD BASED ON:		□ sq.m./PERSON		■ DESIGN OF BUILDING			
OCCUPANCY:		LOAD:		PERSONS:			
LEVEL 01:				4			
		TOTAL OCCUPANT LOAD:		4 PEOPLE			
ASSUMPTIONS:				- 2 PEOPLE WORKING IN THE STAFF ROOM - 2 VISITORS IN THE PUBLIC AREA			
23	OTHER:						
REQUIREMENT OF HOSE STATIONS:				NOT REQUIRED			9.10.21.9
REQUIREMENT OF PLUMBING FIXTURES WITHIN THE BUILDING				NOT REQUIRED			9.31.1.1
Plumbing fixtures are provided at: <ul style="list-style-type: none">• Campground comfort stations (150 m away)• Beach washrooms (90 m away)							



A-001



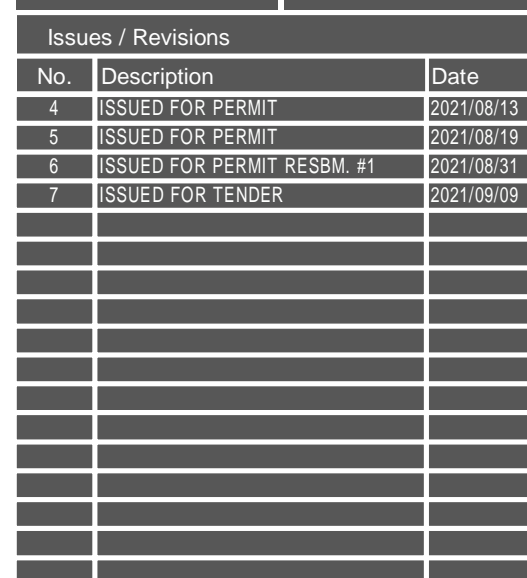
Consultant:



Project :
City of Peterborough

BEAVERMEAD CAMPGROUND GATEHOUSE

Peterborough,
ON K9L 1P8



Drawing Title :

SITE PLAN

Scale : 1 : 100

Date : 2021/09/09

Job No. : 20-120

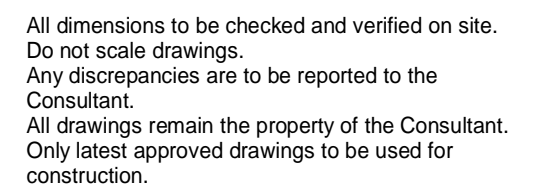
Drawn by : B.I

Drawing No. :

ing No. : **A-101**



Stamp:



City of Peterborough

Peterborough,
ON K9L 1P8

Project North : True North :

Drawing Title :

Scale : 1 : 100

Date : 2021/09/09

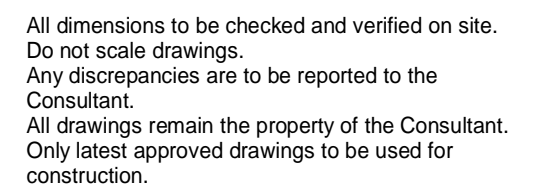
Drawn by : B.I.

Drawing No. :

A-102



Stamp:



BEAVERMEAD CAMPGROUND GATEHOUSE

Project North :

Issues / Revisions		
No.	Description	Date
1	ISSUED FOR PRE-SUBMISSION	2021/07/21
4	ISSUED FOR PERMIT	2021/08/13
5	ISSUED FOR PERMIT	2021/08/19
6	ISSUED FOR PERMIT RESBM. #1	2021/08/31
7	ISSUED FOR TENDER	2021/09/09

GROUND FLOOR PLAN

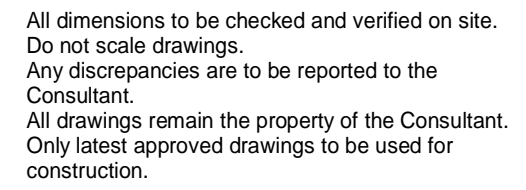
A-111



Scale: 1 : 25



Consultant:



Project : **City of Peterborough**

BEAVERMEAD CAMPGROUND GATEHOUSE

Peterborough,
ON K9L 1P8

Project North :

Project North : True North :

[illegible]

Drawing Title :

FOUNDATION AND SIDEWALK PLAN

Scale : 1 : 25

Date : 2021/09/09

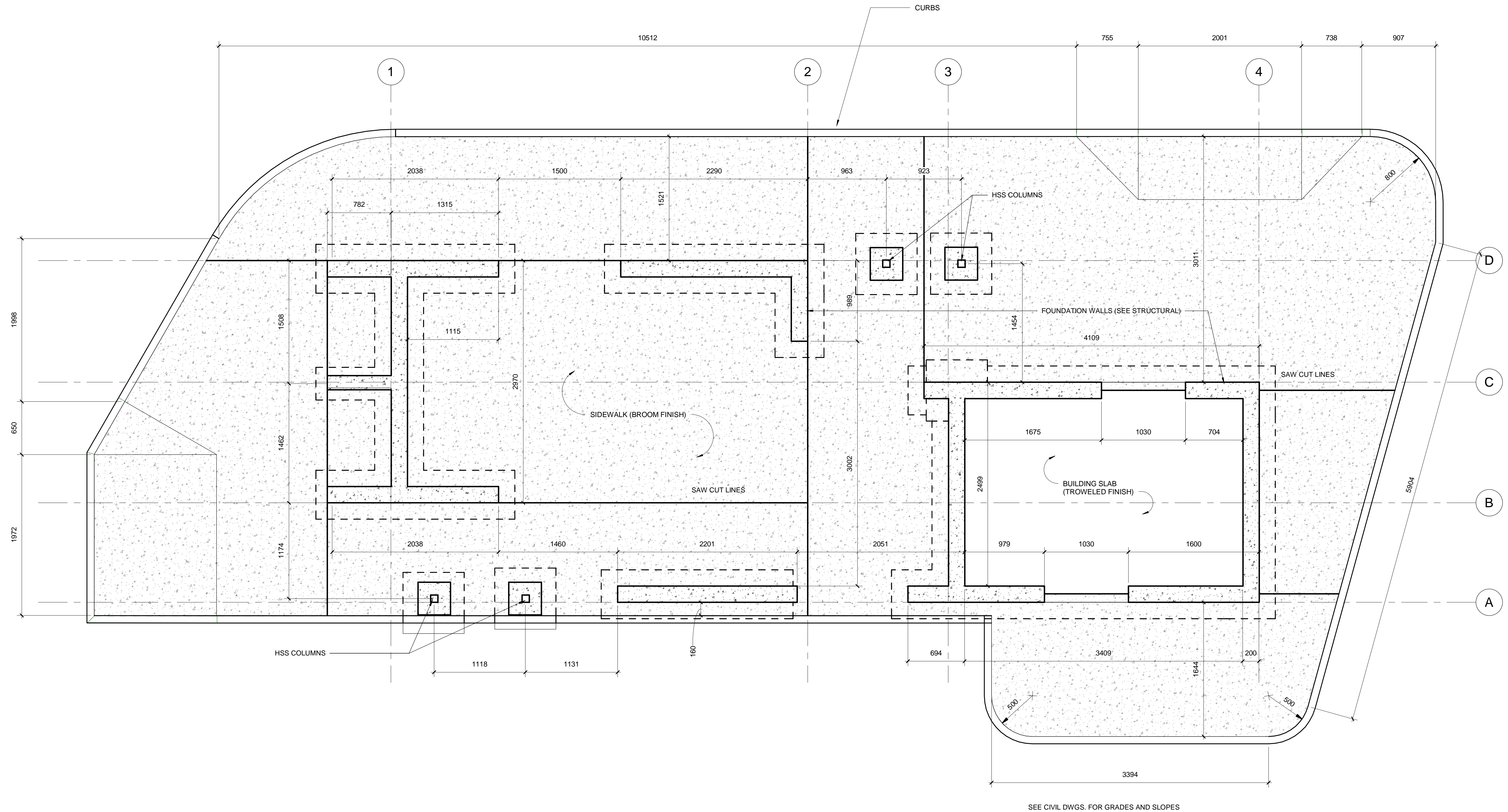
Job No. : 20-120

Drawn by : B.I.

Drawing No. :

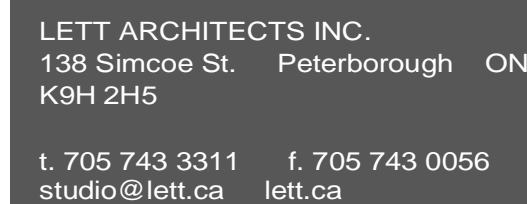
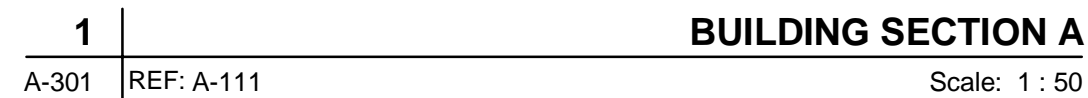
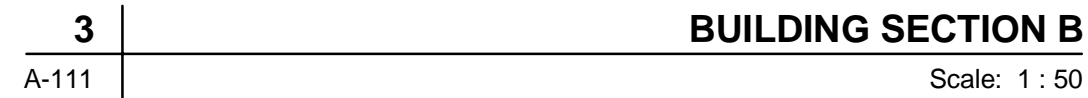
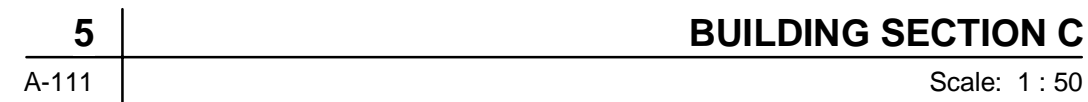
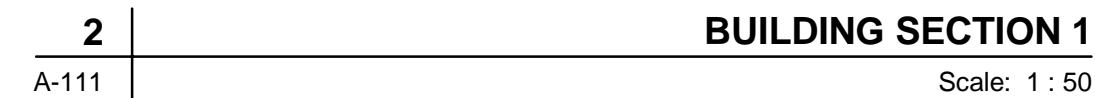
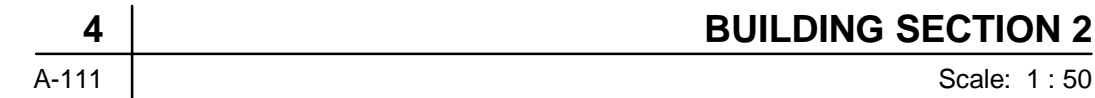
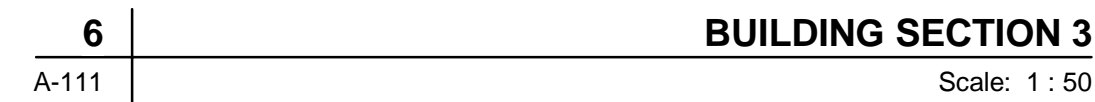
Drawing No. :

Drawing No. : **A-112**

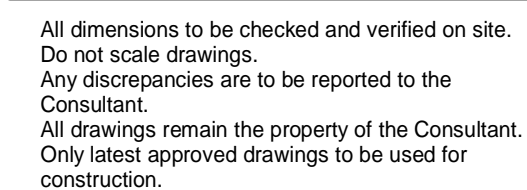


FOUNDATION PLAN

Scale: 1 : 25



Consultant:



Project : **City of Peterborough**

BEAVERMEAD CAMPGROUND GATEHOUSE

Peterborough
ON K9L 1P8

Project North :	True North :

No.	Description	Date
4	ISSUED FOR PERMIT	2021/08/13
5	ISSUED FOR PERMIT	2021/08/19
6	ISSUED FOR PERMIT RESBM. #1	2021/08/31
7	ISSUED FOR TENDER	2021/09/09

Drawing Title :

BUILDING SECTIONS

Scale : 1 : 50

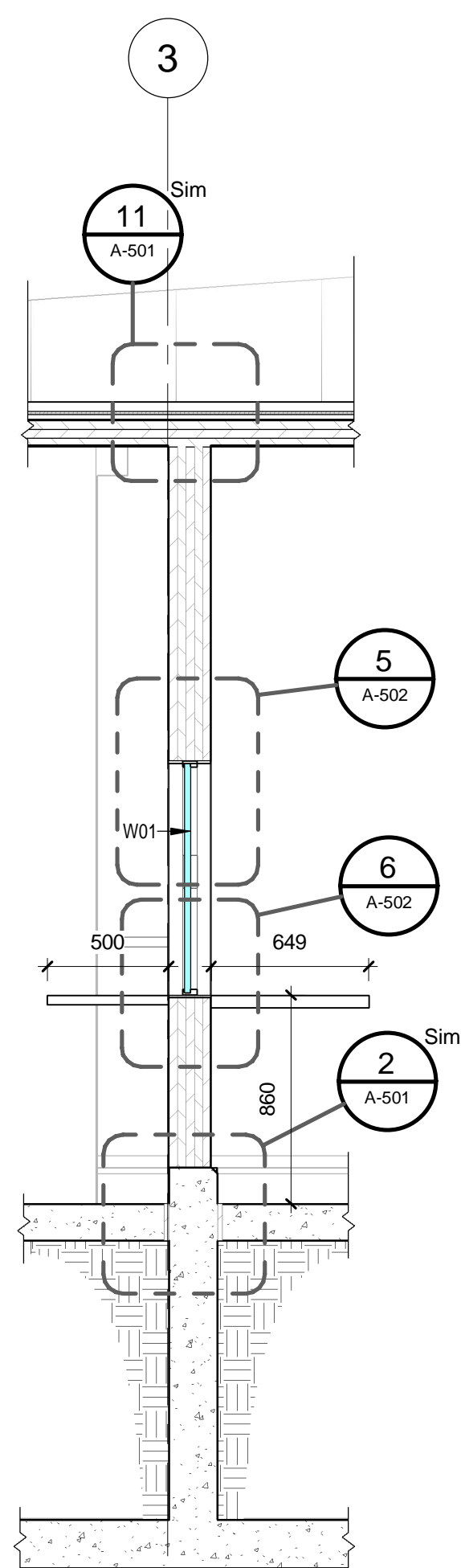
Date : 2021/09/09

Job No. : 20-120

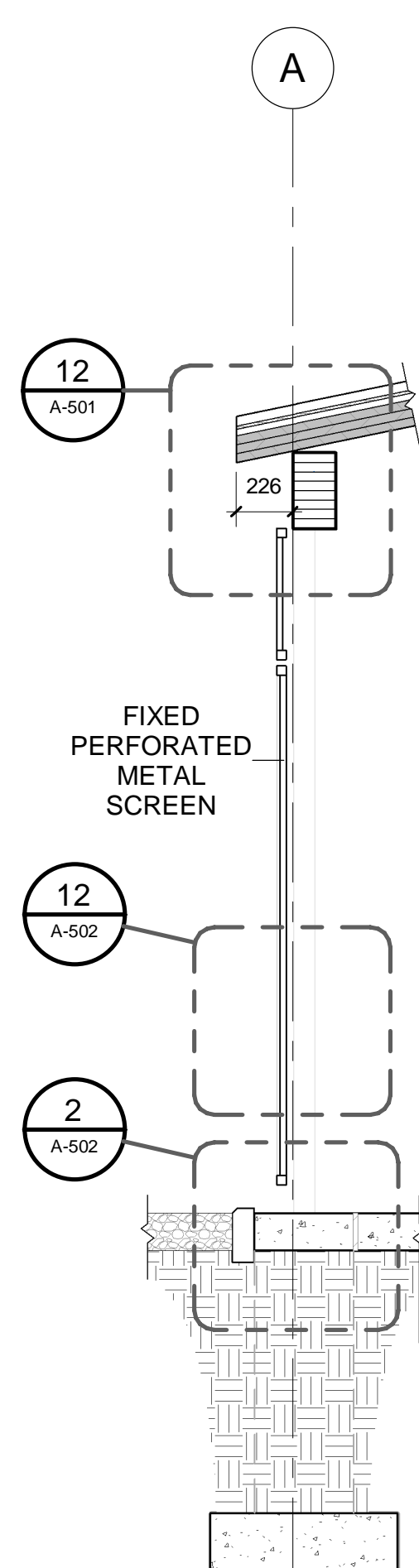
Drawn by : B.I

Drawing No. :

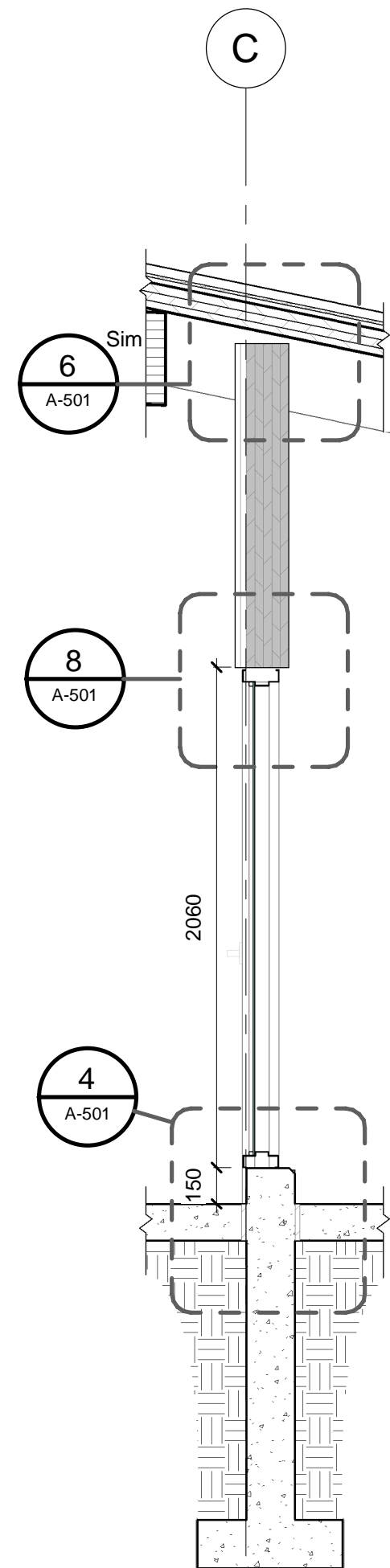
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A-301



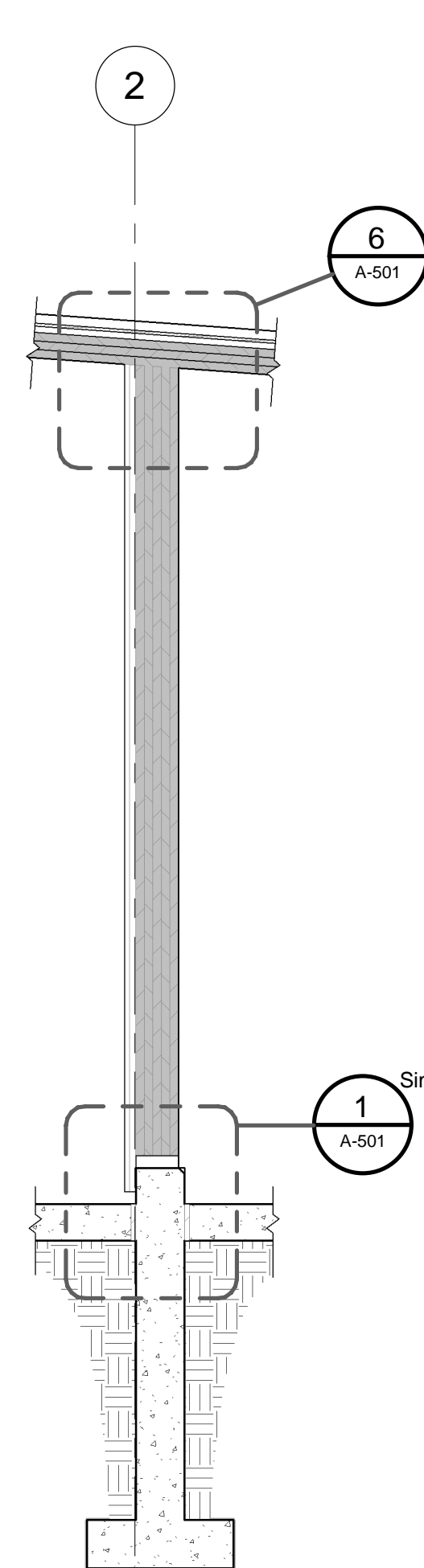
10	WALL SECTION @ SERVICE WINDOWS
A-301	Scale: 1 : 25



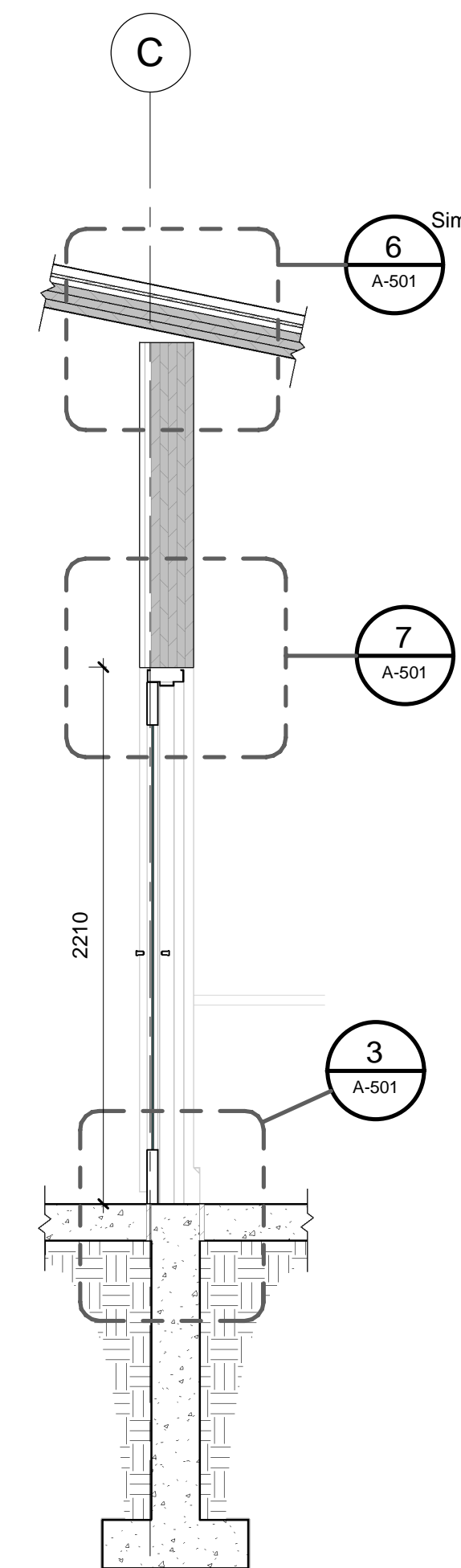
9	WALL SECTION @ METAL PANELS
A-301	Scale: 1 : 25



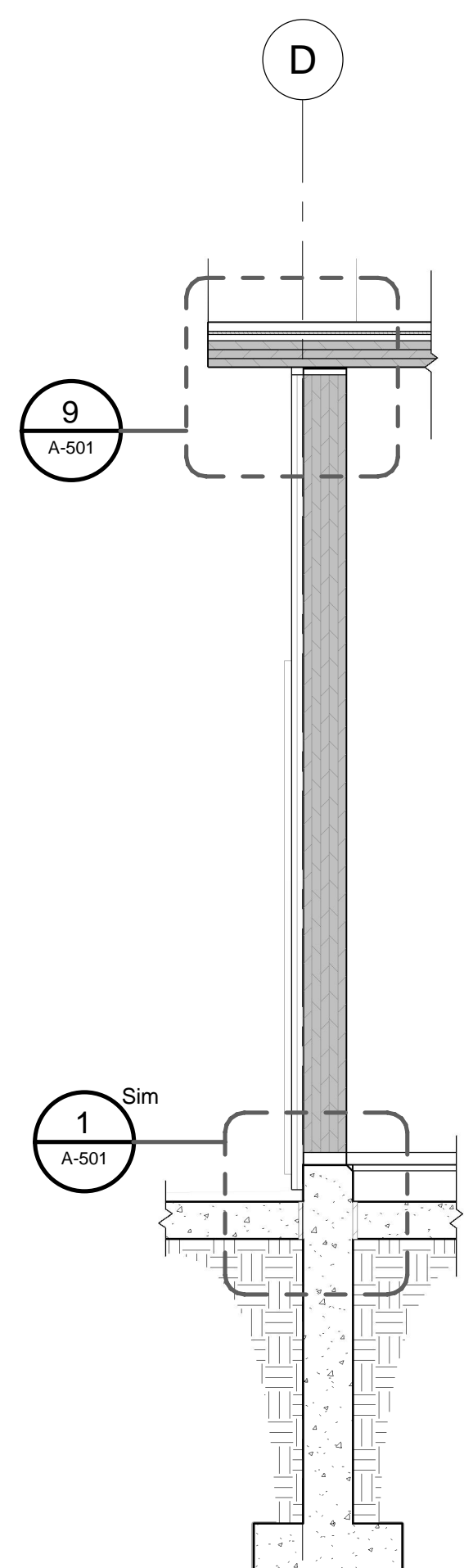
8	WALL SECTION @ STAFF AREA - WINDOW
A-111	Scale: 1 : 25



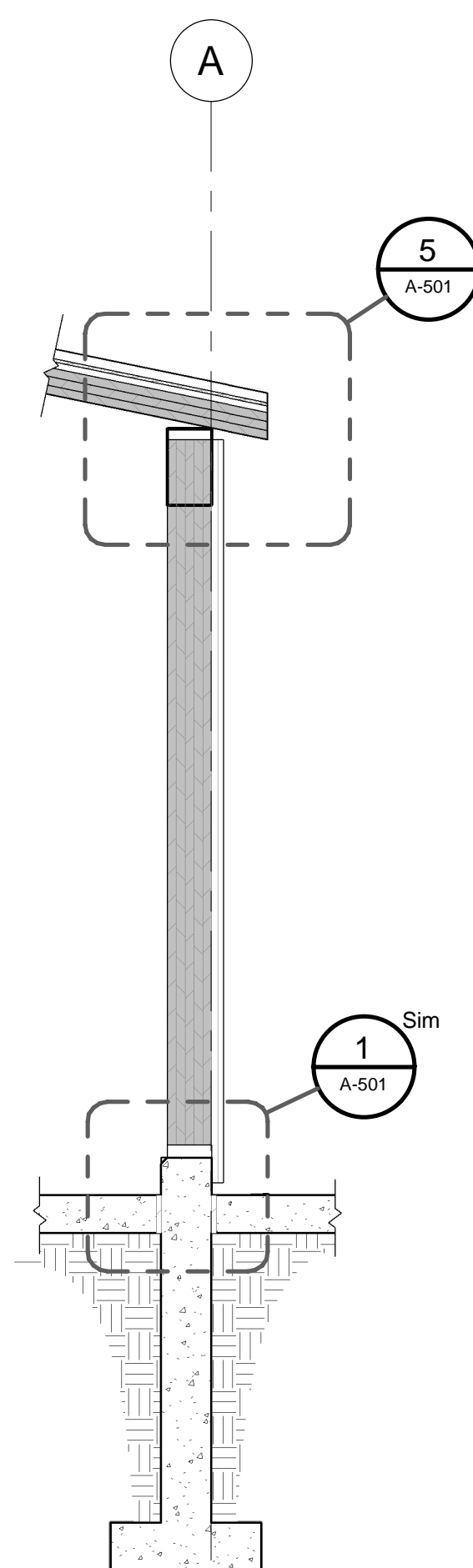
7	WALL SECTION @ PUBLIC AREA - MIDDLE
A-301	Scale: 1 : 25



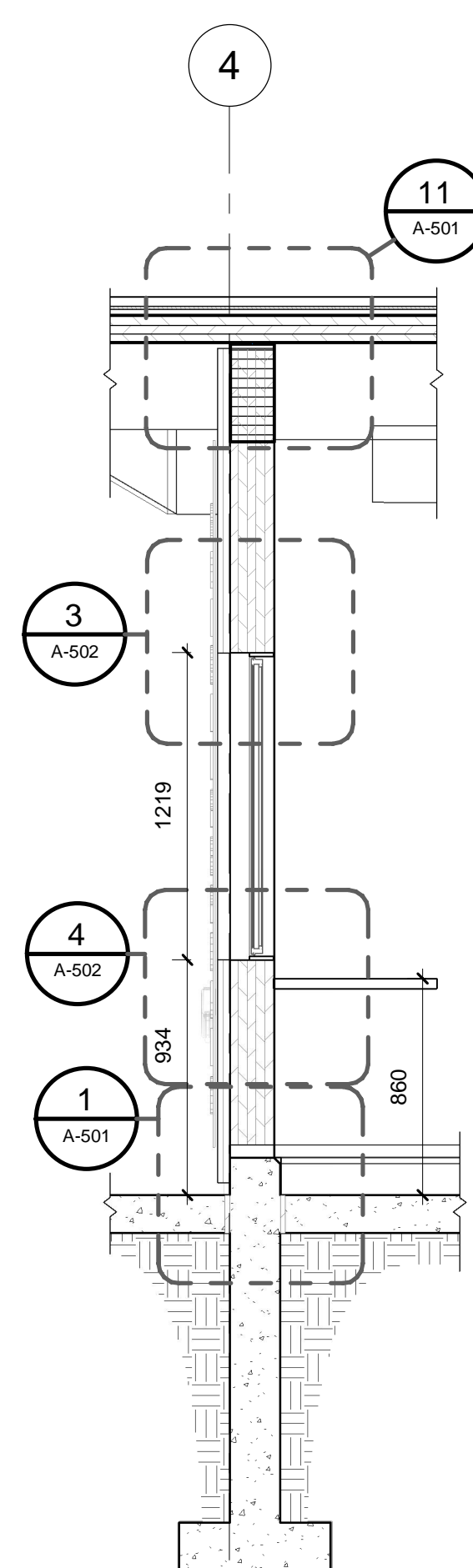
6	WALL SECTION @ STAFF AREA - ENTRANCE SIDE
A-301	Scale: 1 : 25



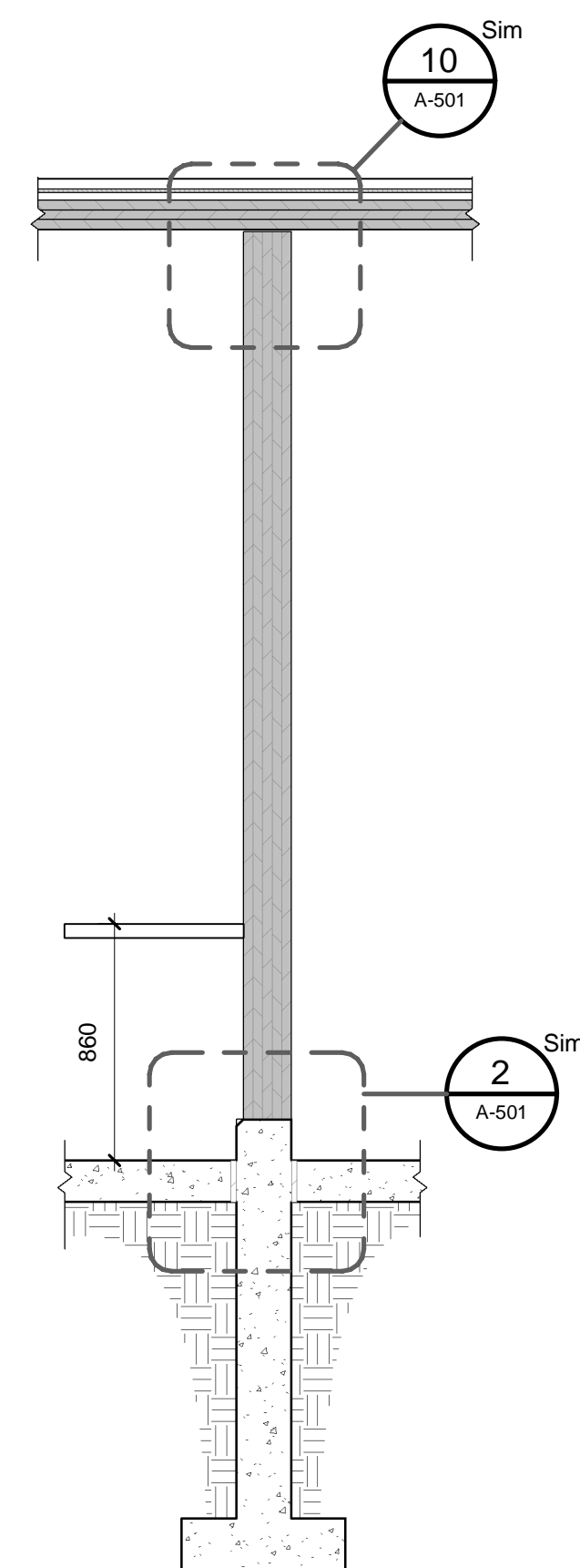
5	WALL SECTION @ PUBLIC AREA - ENTRANCE SIDE
A-301	Scale: 1 : 25



4 WALL SECTION @ PUBLIC AREA - EXIT SIDE
A-301 Scale: 1 : 25

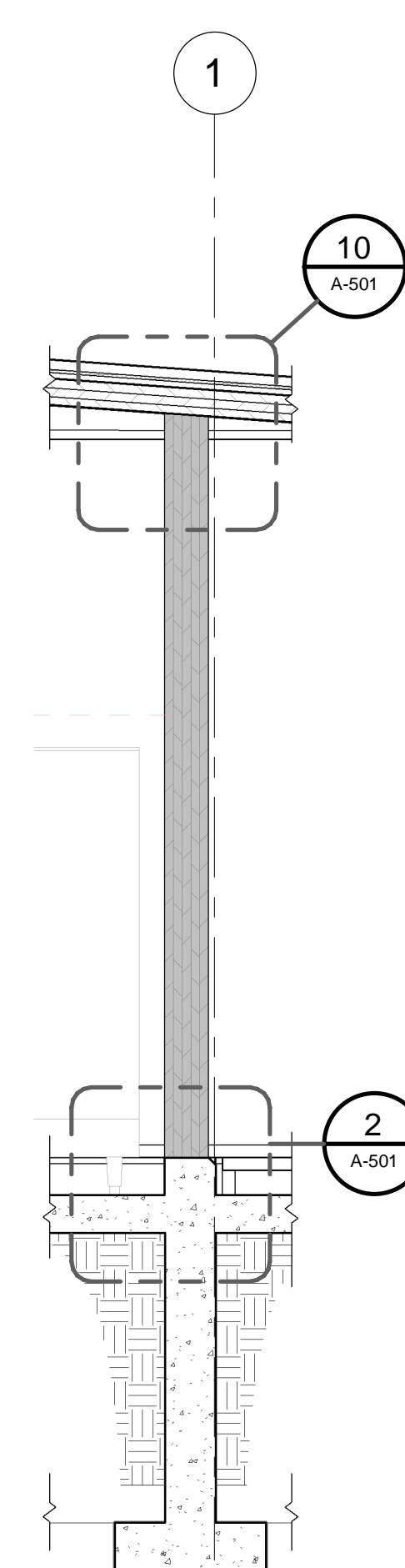


3 | **WALL SECTION @ STAFF AREA - NORTH**

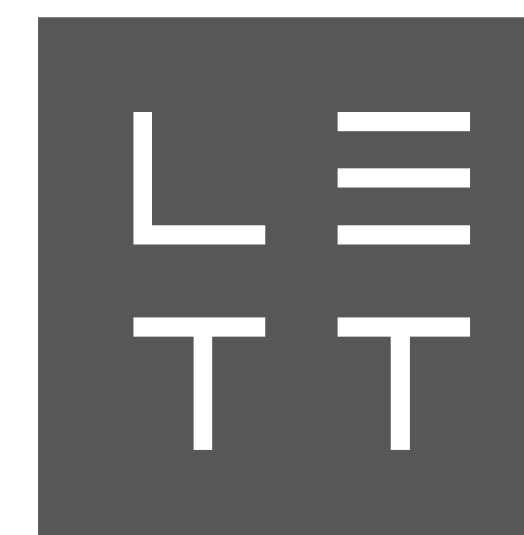


2 | **WALL SECTION @ SERVICE COUNTER**

A-301 | Scale: 1 : 25



1	WALL SECTION @ PUBLIC AREA - SOUTH
A-301	Scale: 1 : 25



LETT ARCHITECTS INC.
138 Simcoe St. Peterborough ON
K9H 2H5

t. 705 743 3311 f. 705 743 0056
studio@lett.ca lett.ca

Consultant:



All dimensions to be checked and verified on site.
Do not scale drawings.
Any discrepancies are to be reported to the Consultant.
All drawings remain the property of the Consultant.
Only latest approved drawings to be used for construction.

Project :

City of Peterborough

**BEAVERMEAD
CAMPGROUND
GATEHOUSE**

Peterborough
ON K9L 1P8

Project North :	True North :
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[illegible]

Drawing Title :

WALL SECTIONS

Scale : 1 : 25

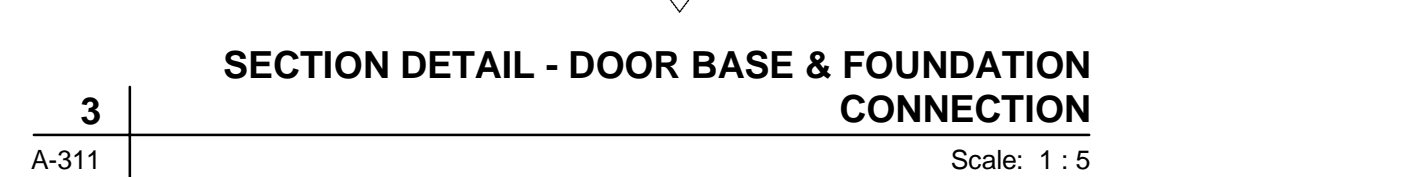
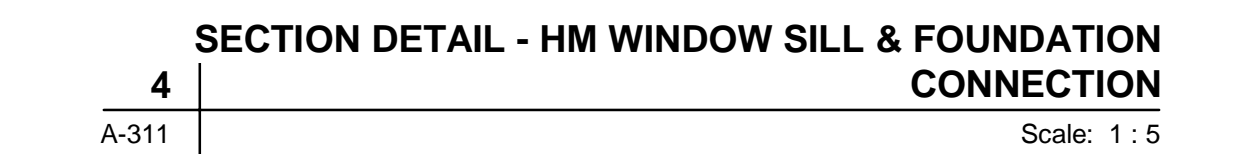
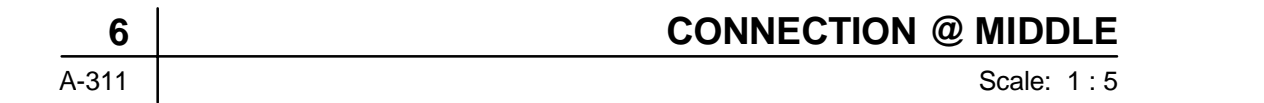
Date : 2021/09/09

Job No. : 20-120

Drawn by : B.

Drawing No.

ing No. : **A-311**



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Project :
City of Peterborough

BEAVERMEAD CAMPGROUND GATEHOUSE

Peterborough,
ON K9L 1P8

Project North : True North :

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Drawing Title :

DETAILS

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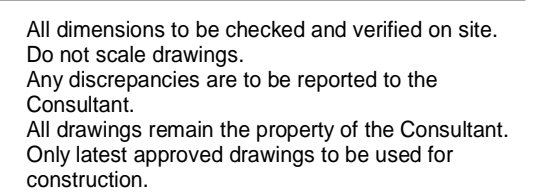
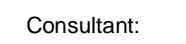
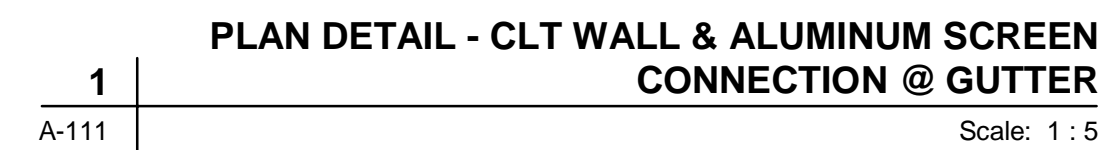
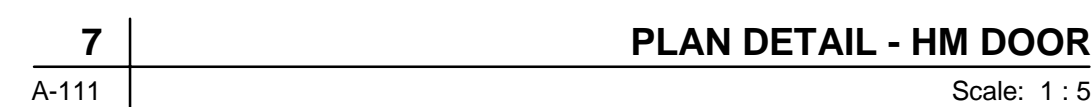
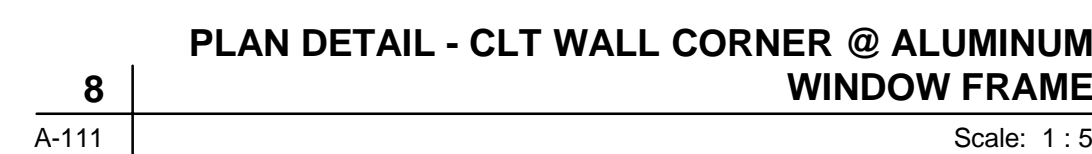
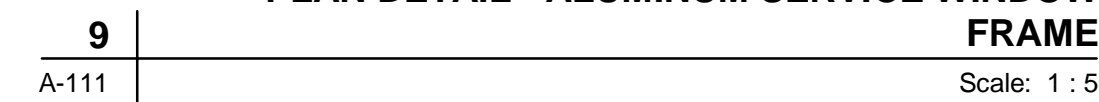
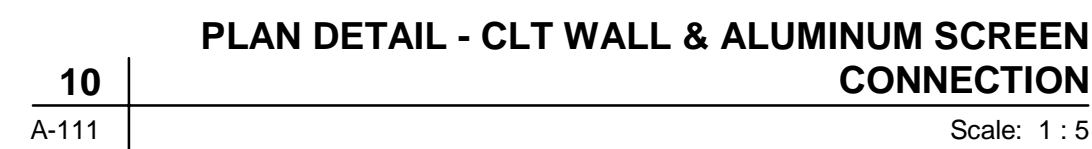
Date : 2021/09/09

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20

Drawing No. :

No. :
A-501



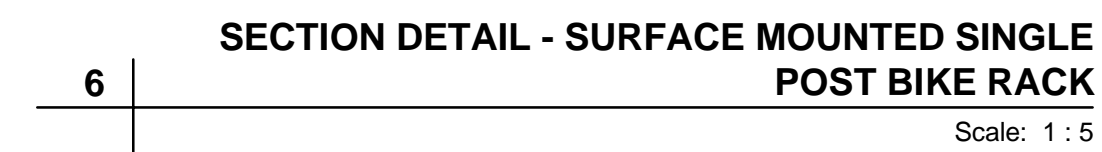
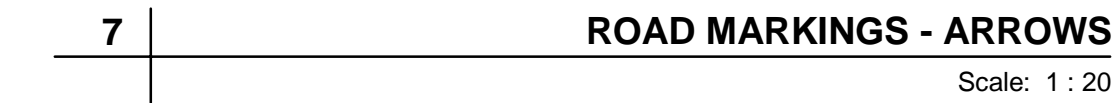
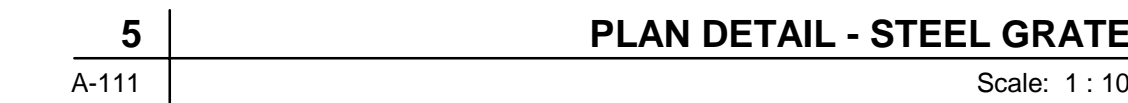
Project North :

Project North : True North :

Drawing Title :

Drawing No. :

A-502



consultant:



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City of Peterborough

BEAVERMEAD CAMPGROUND GATEHOUSE

terborough,
K9L 1P8

Project North :

Project North : True North :

[illegible]

wing Title :

DETAILS

As indicated

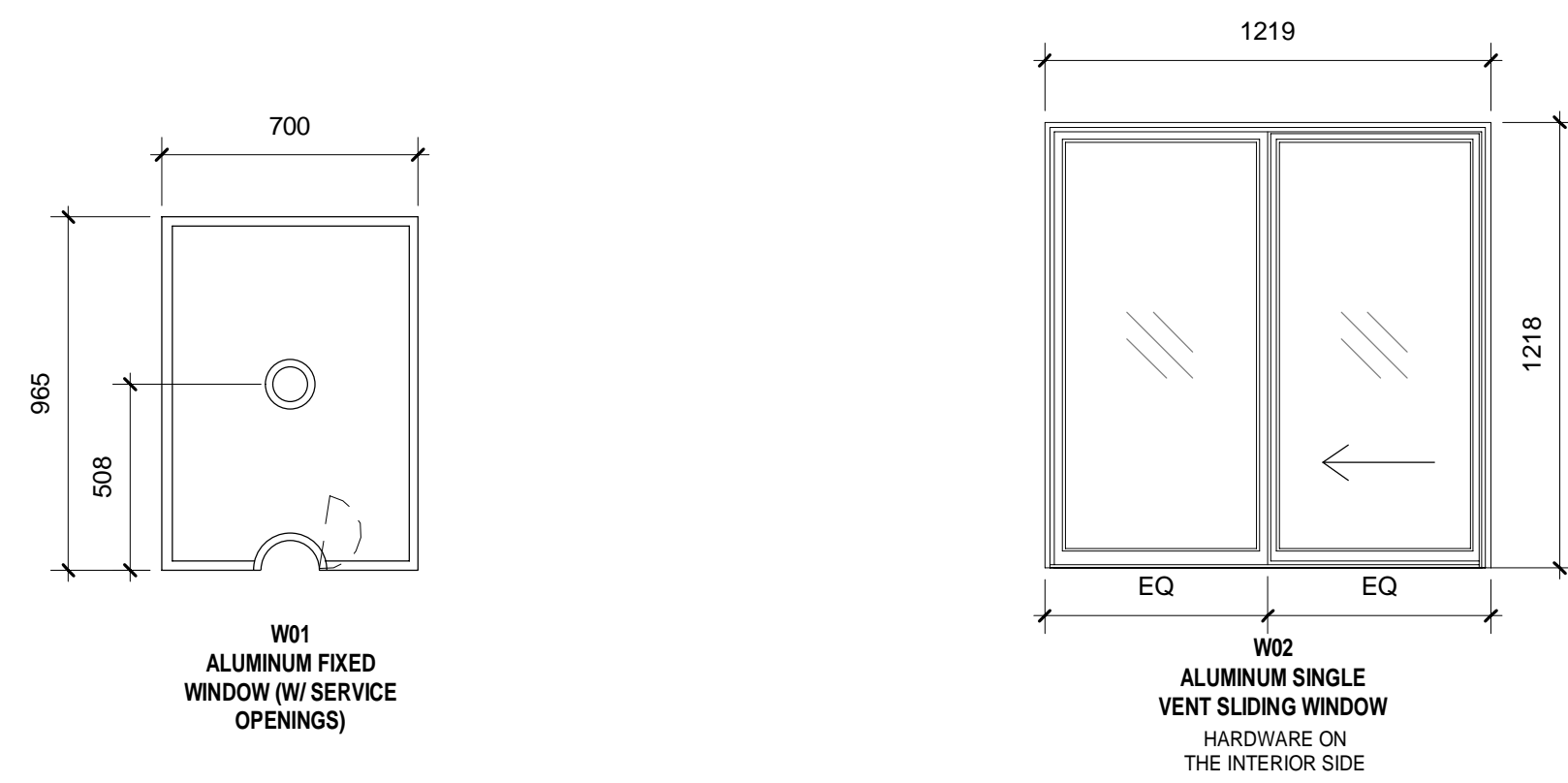
2021/09/09

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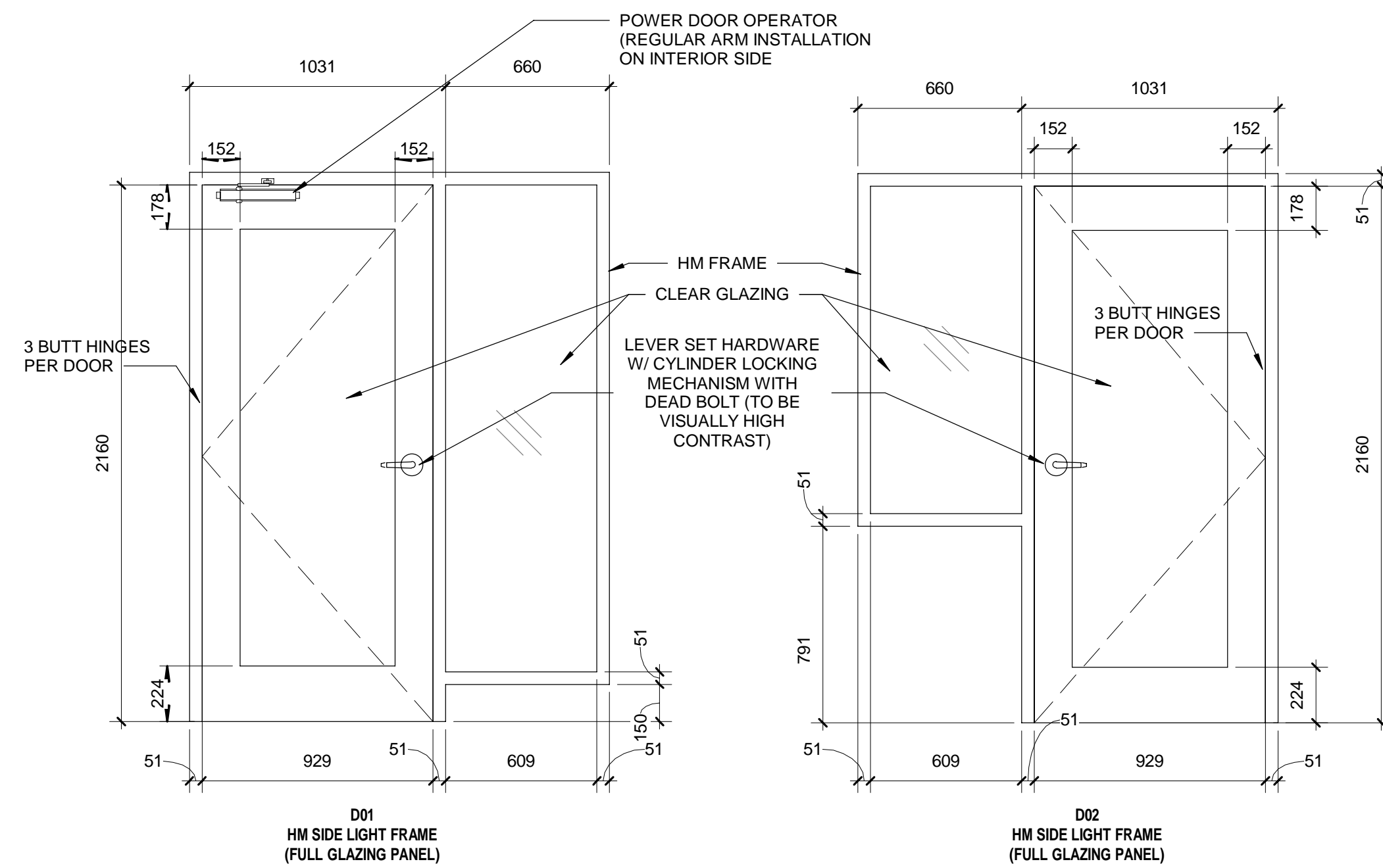
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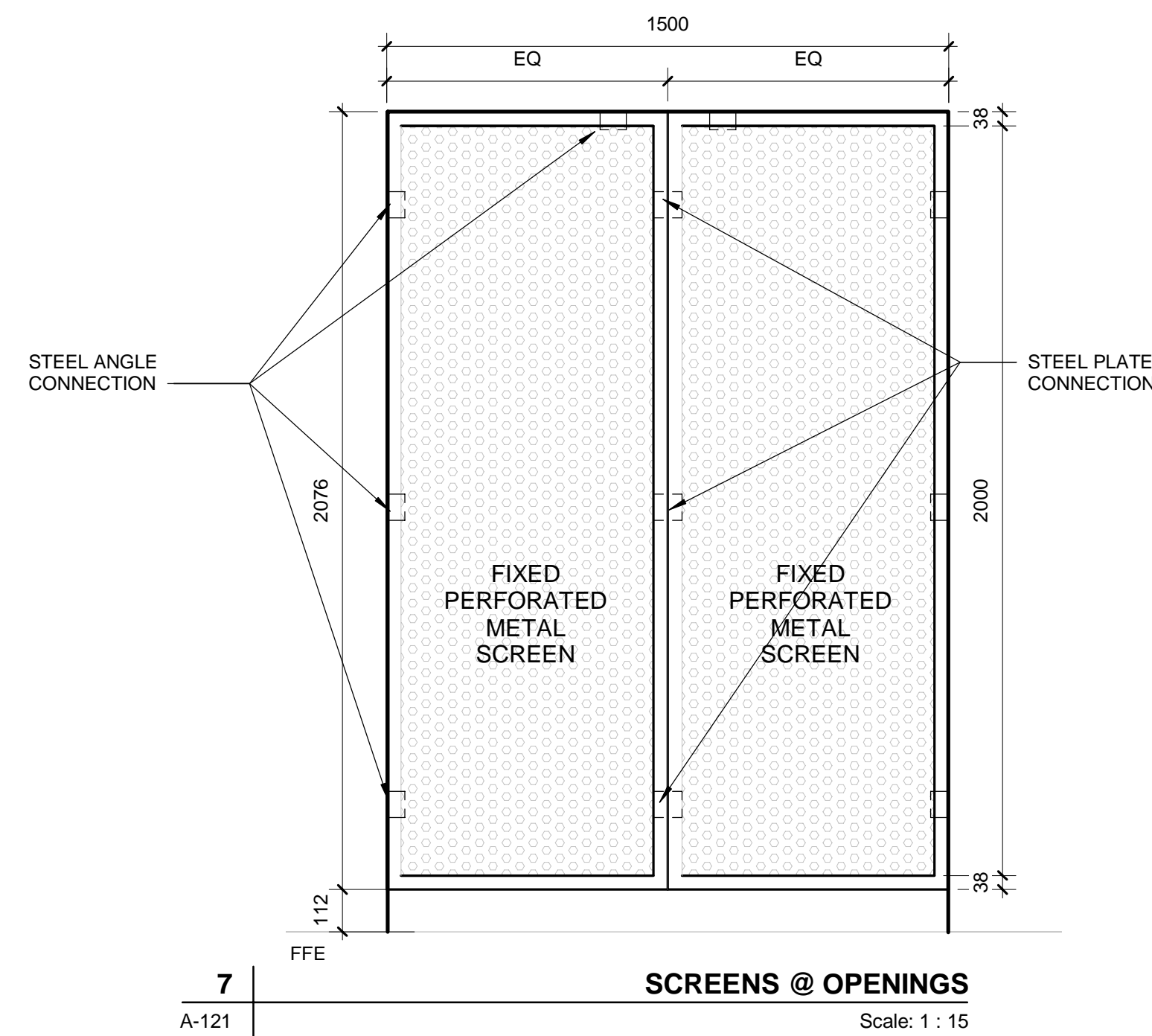
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WINDOW TYPES

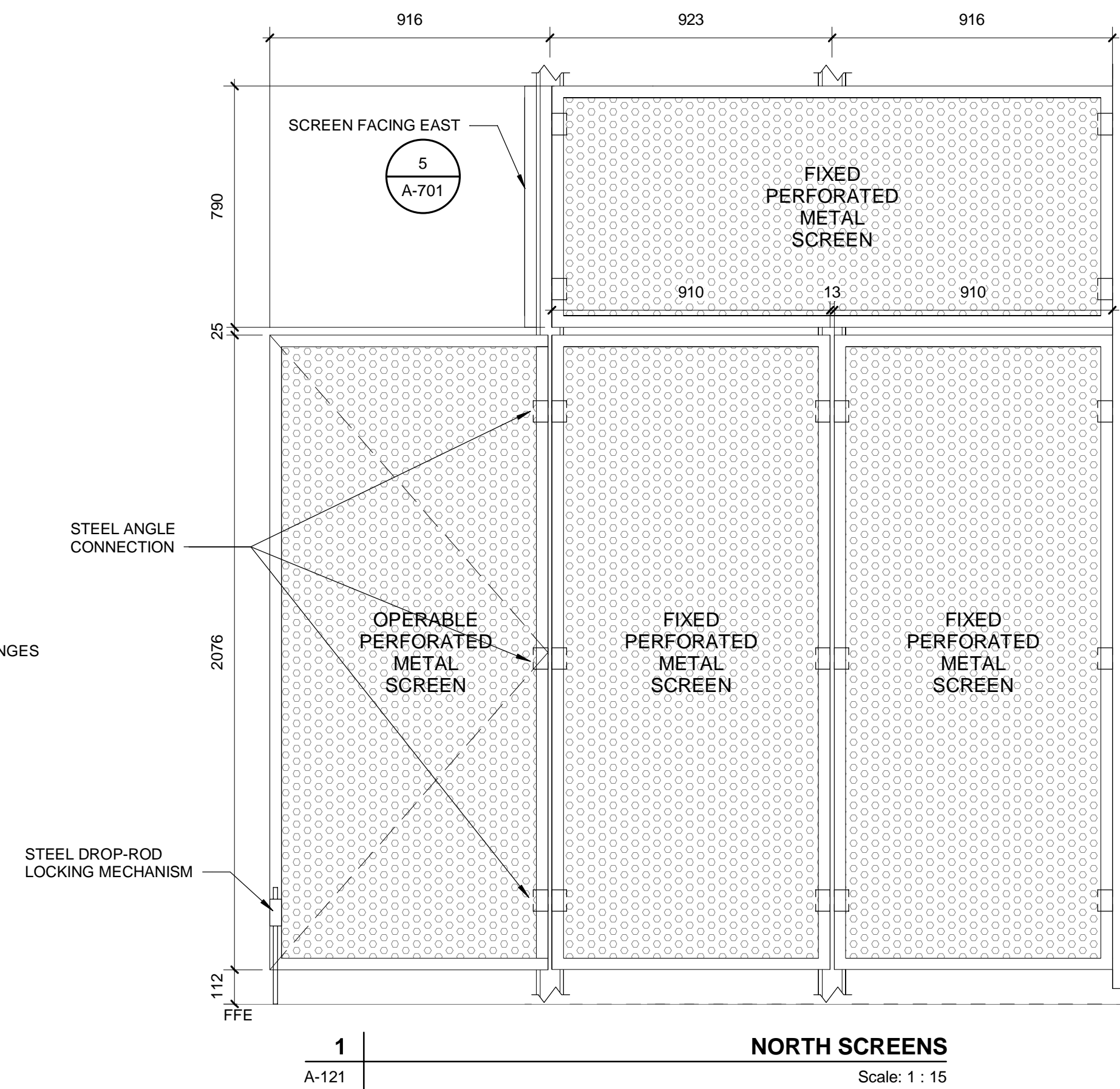
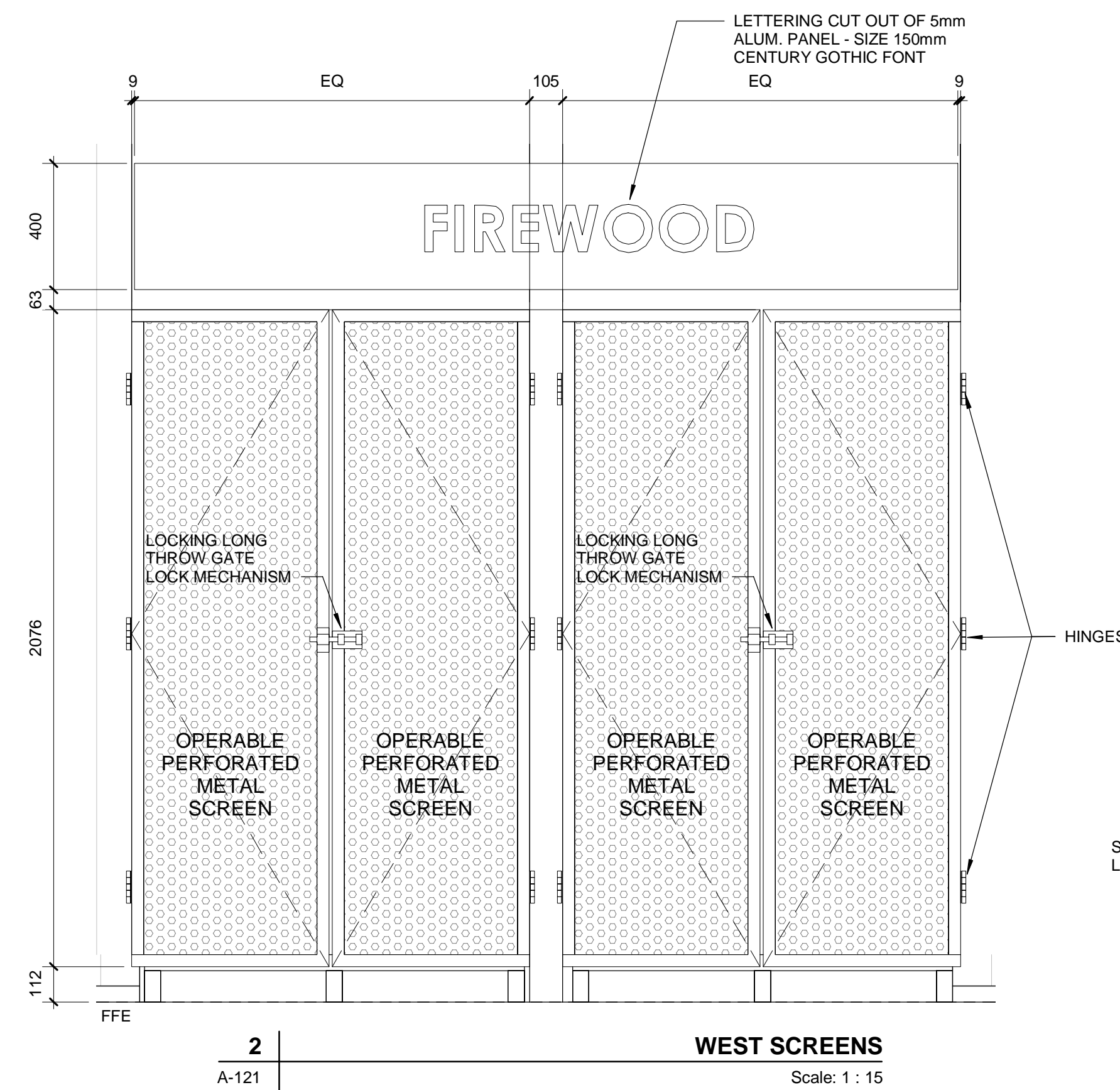
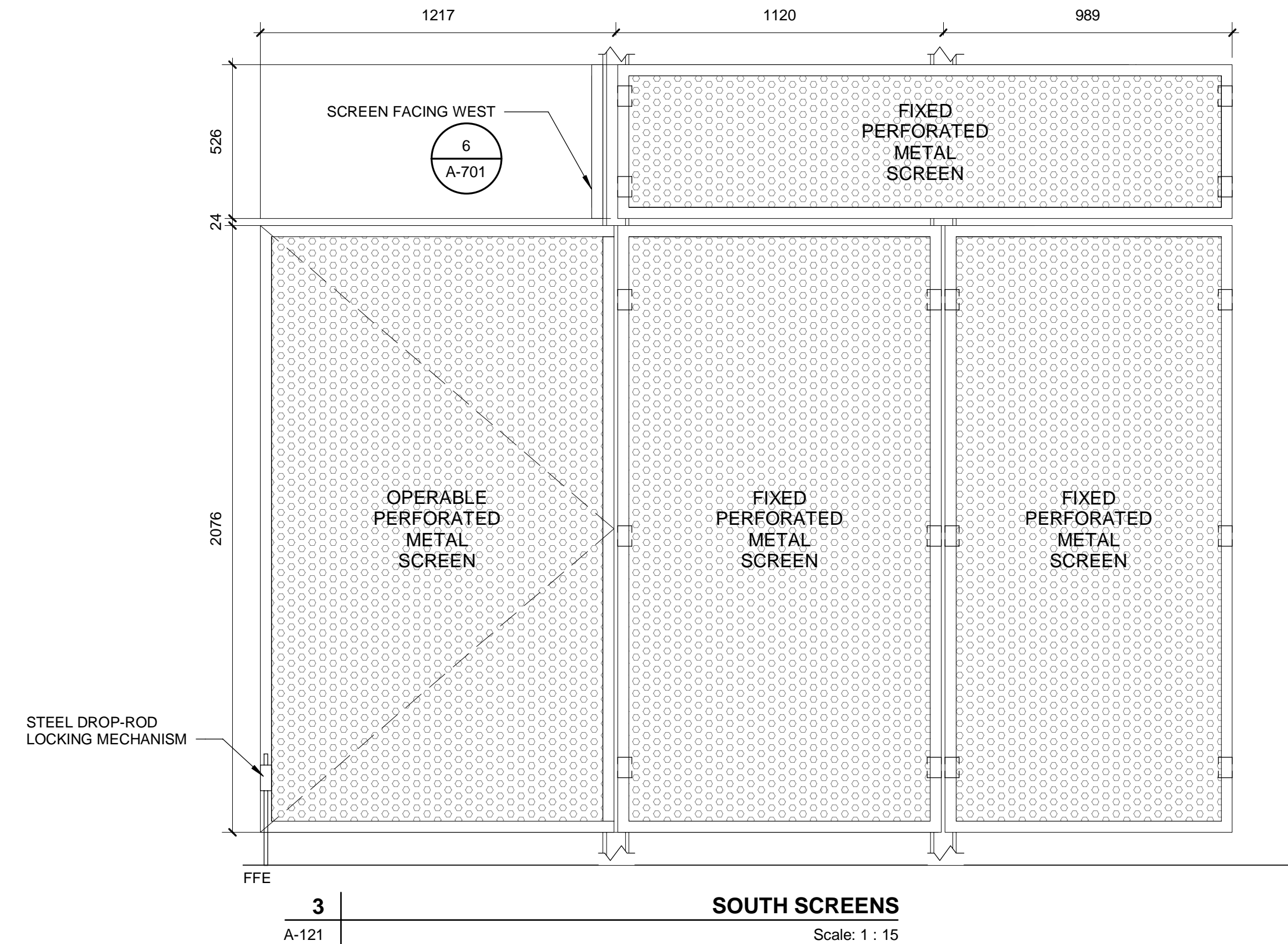
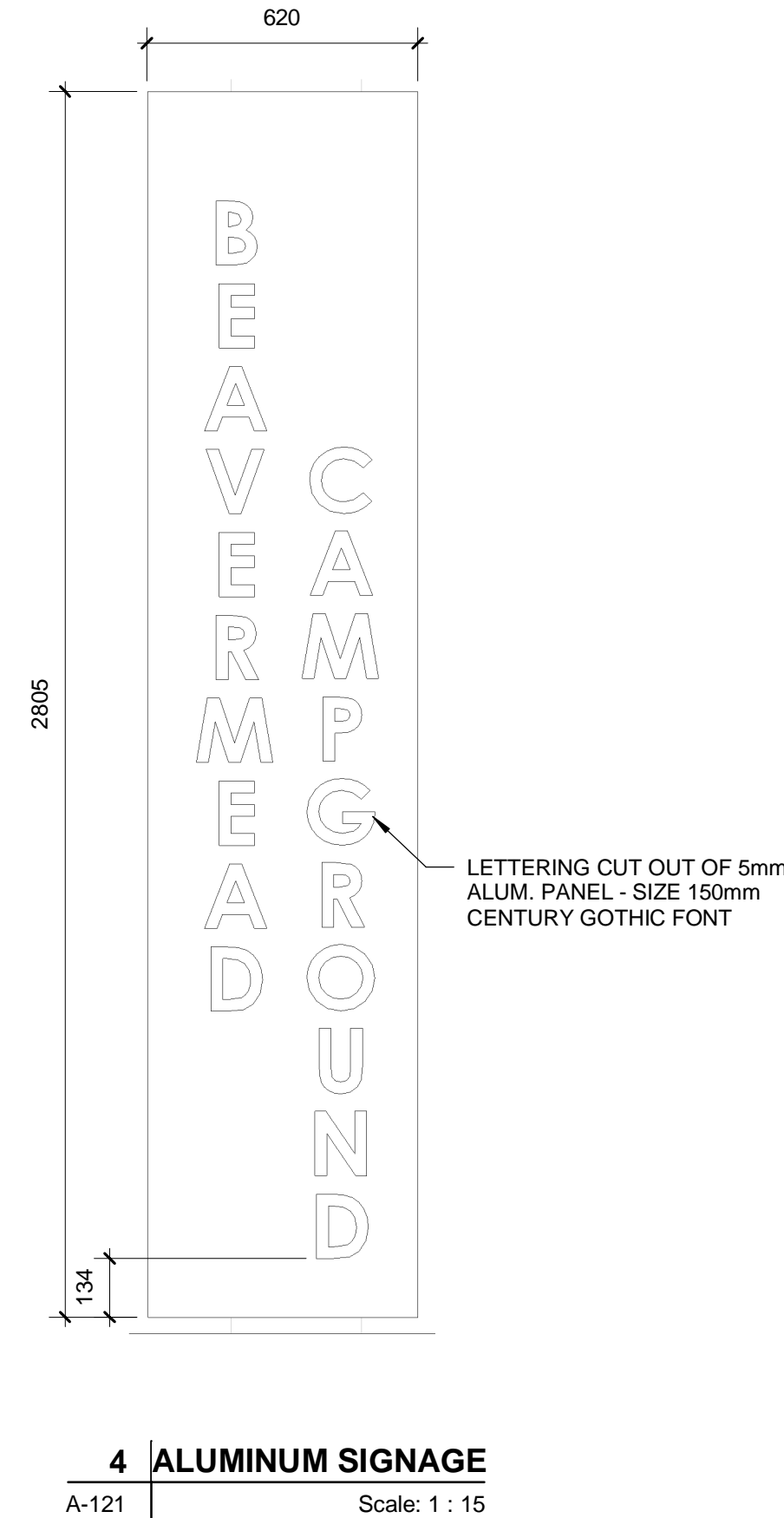
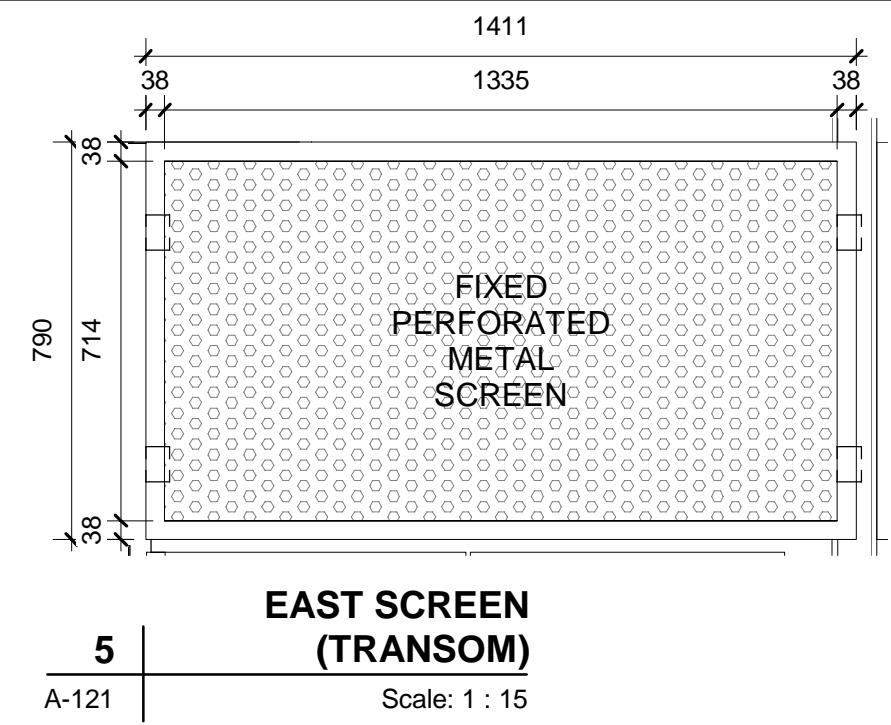
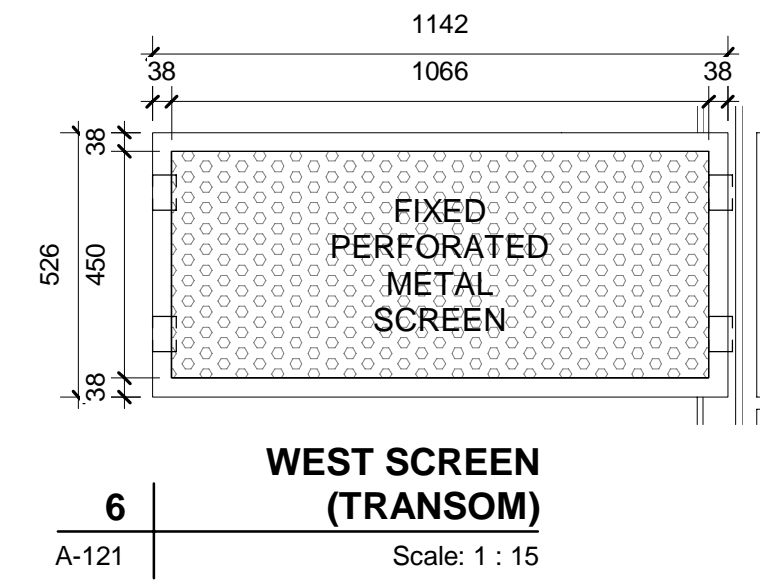


DOOR FRAME AND PANEL TYPES

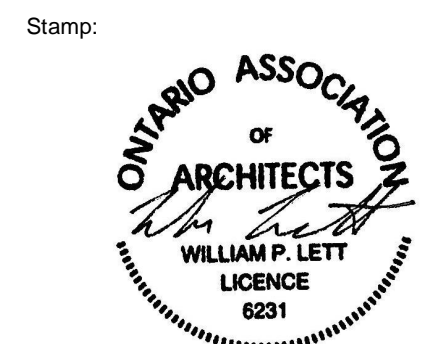


GENERAL NOTES FOR PANELS:

- ALL PANELS (SIGNS AND SCREENS) TO BE 5mm PERFORATED ALUMINUM PANELS. PERFORATIONS TO BE MAX. 7.5mm DIAMETER.
- ALUMINUM SCREENS TO BE WELDED TO ALUMINUM FRAMES ON ALL 8 SIDES.
- ALUMINUM FRAMES TO BE 38x38x3.2 ALUMINUM TUBE WELDED TOGETHER
- OPERABLE ALUMINUM SCREENS ARE TO BE HINGED ON ONE EDGE
- FABRICATOR TO CONFIRM STEEL ANGLE CONNECTION LOCATIONS TO BE REVIEWED BY CONSULTANT AT SHOP DRAWING STAGE



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Project :
City of Peterborough

**BEAVERMEAD
CAMPGROUND
GATEHOUSE**

Peterborough
ON K9L 1P8

Project North : True North :

[illegible]

Drawing Title :

DOORS, WINDOWS & SCREENS

Scale : As indicated

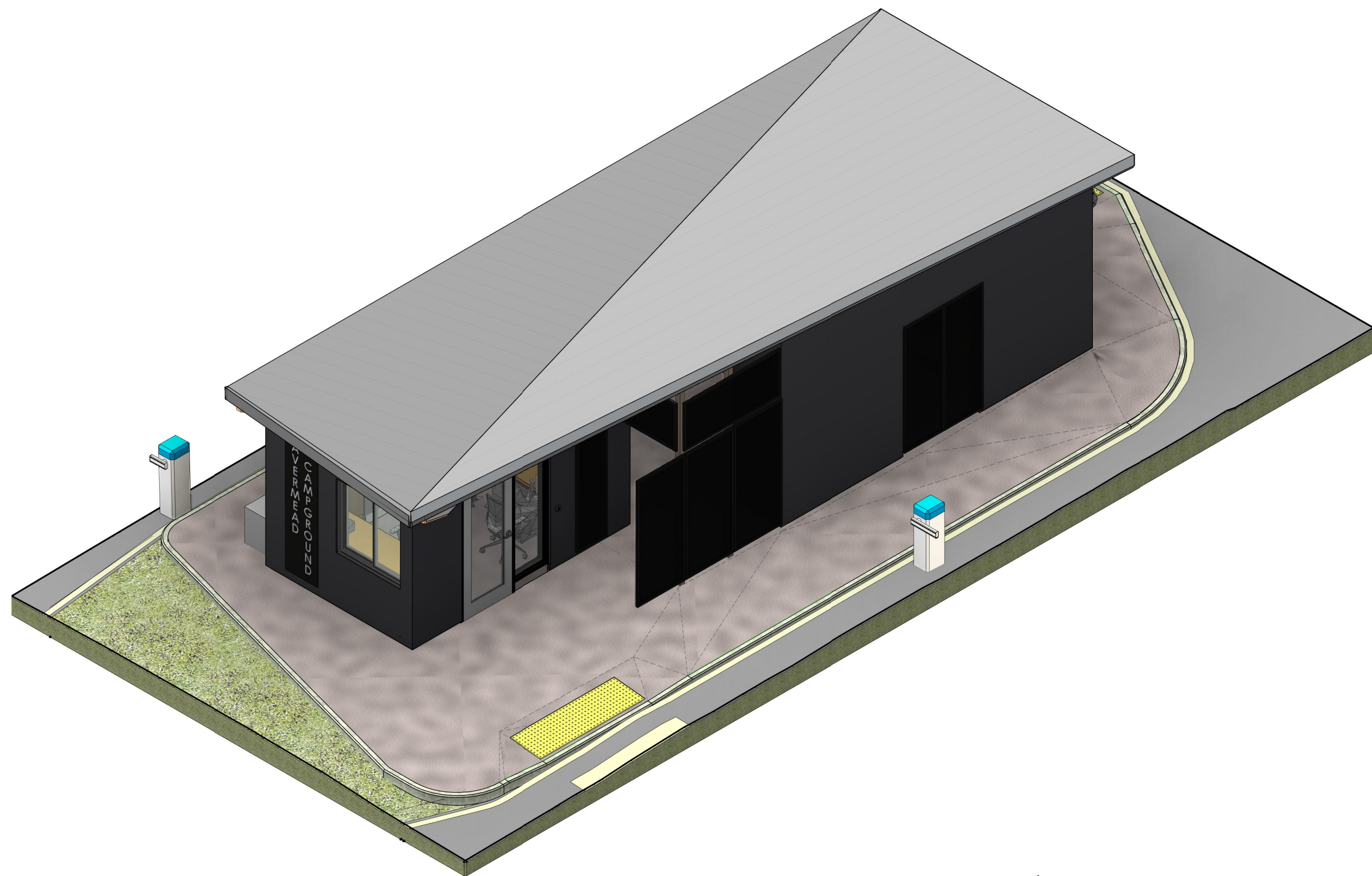
Date : 2021/09/09

Job No. : 20-120

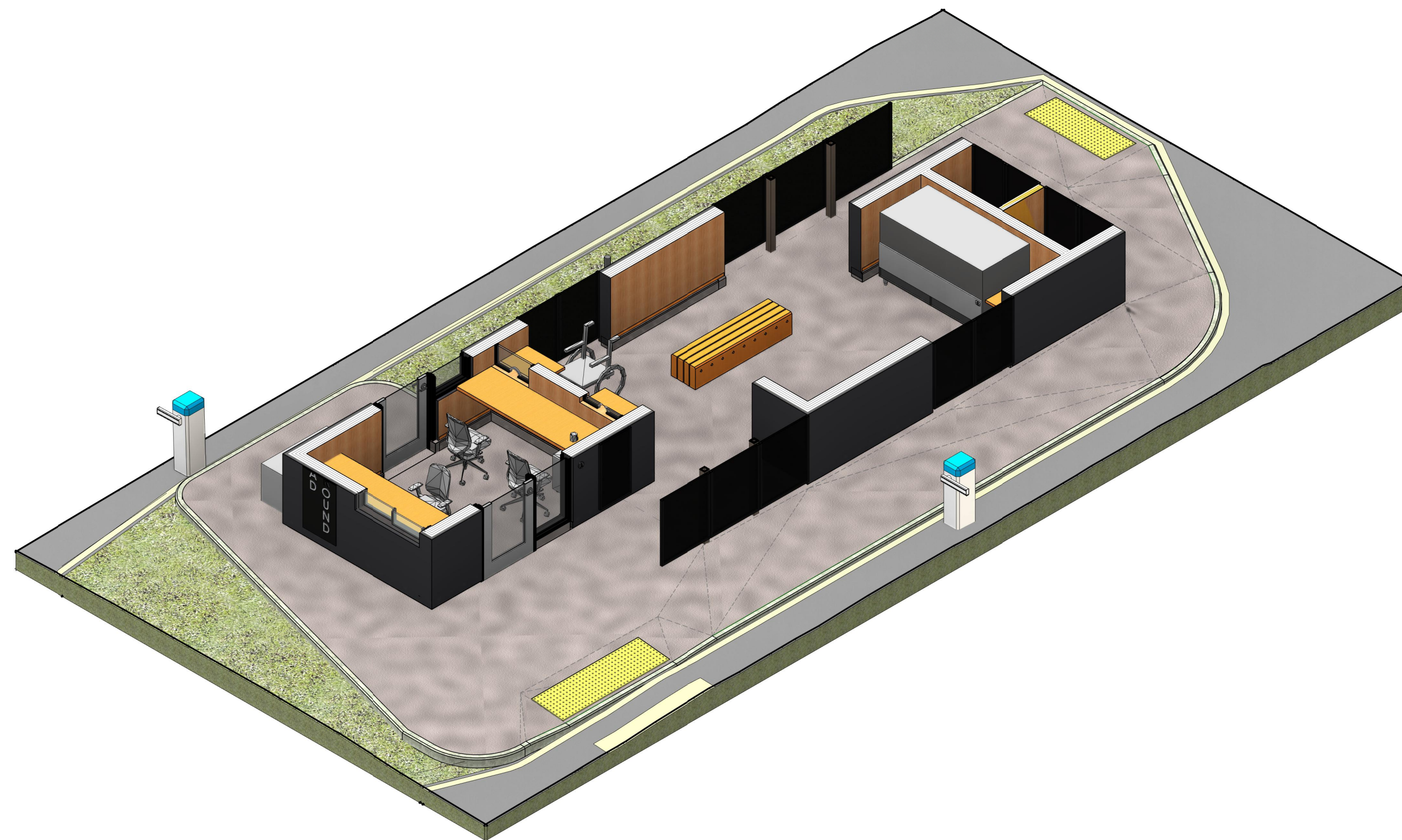
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Drawing No. :

A-701



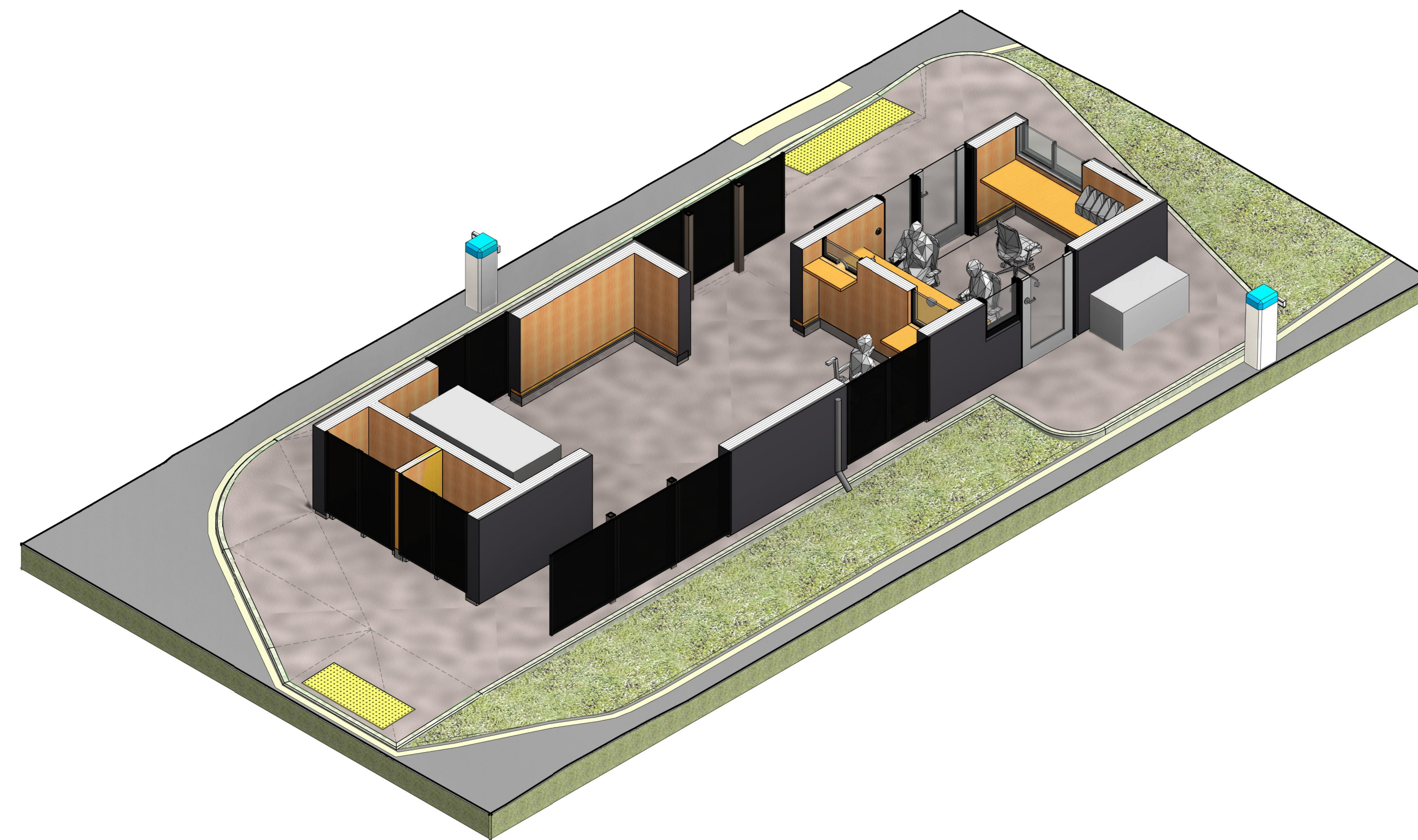
ISOMETRIC 1



ISOMETRIC CUT 1



ISOMETRIC 2



ISOMETRIC CUT 2



LETT ARCHITECTS INC.
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studio@lett.ca lett.ca

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BEAVERMEAD CAMPGROUND GATEHOUSE

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Project North : True North

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Drawing Title :

ISOMETRIC DRAWINGS

Scale :

Date : 2021/09/09

Job No. : 20-120

Drawn by : B.I

Drawing No. : **A-901**



Consultant:



Project

City of Peterborough

Beavermead Campground Gate House

2011 Ashburnham Drive, Peterborough, ON

Issues		
No.	Revisions	Date
1	ISSUED TO ORCA	2021-06-24
2	ISSUED FOR ORCA PERMIT	2021-07-29
3	ISSUED FOR TENDER	2021-08-12

Project North:



Drawing Title :

REMOVALS, EROSION & SEDIMENT CONTROL PLAN

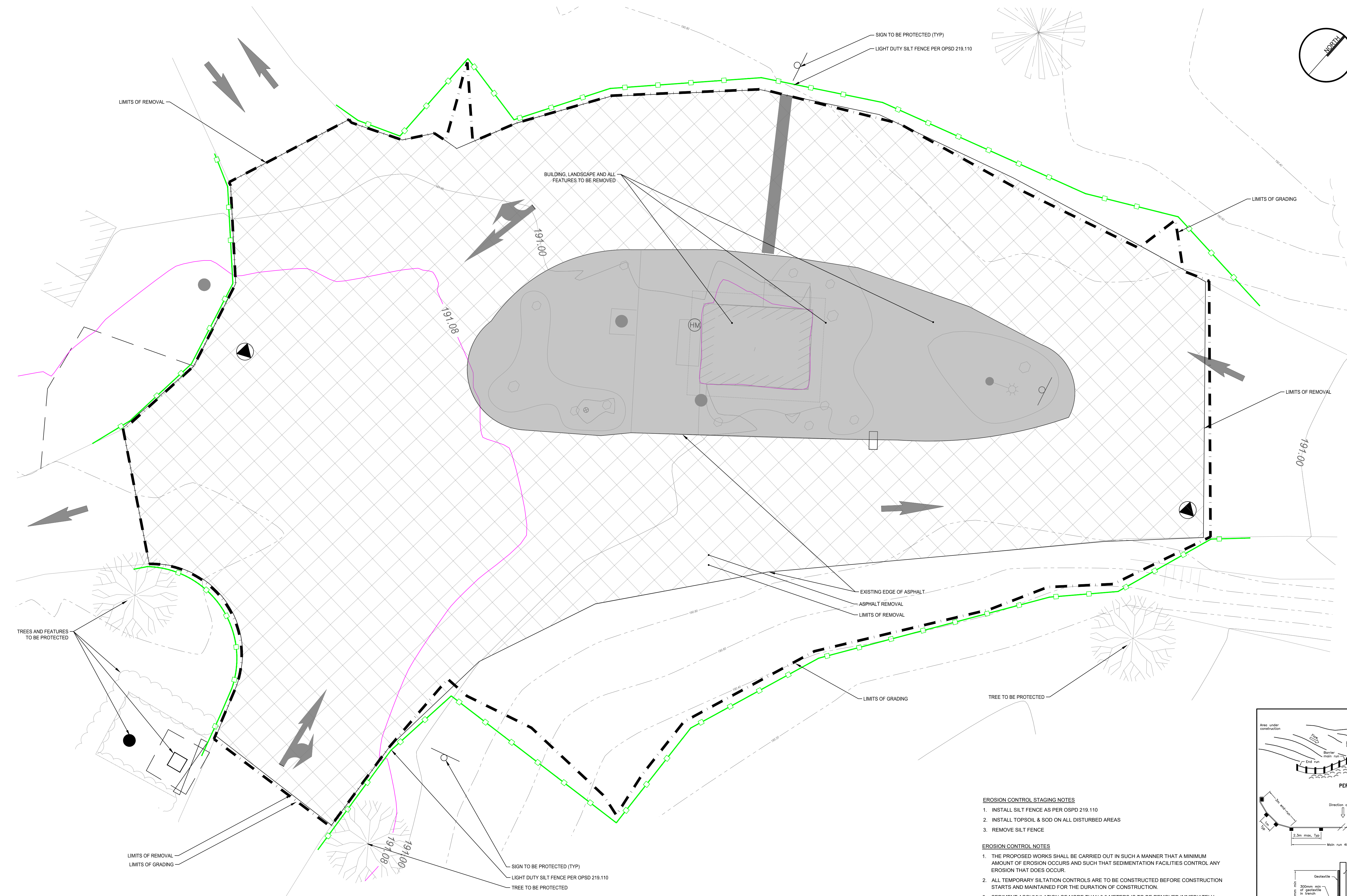
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Date: May 26, 2021

Job No.: 21041

Drawn by: NC

Drawing No.:
C-001

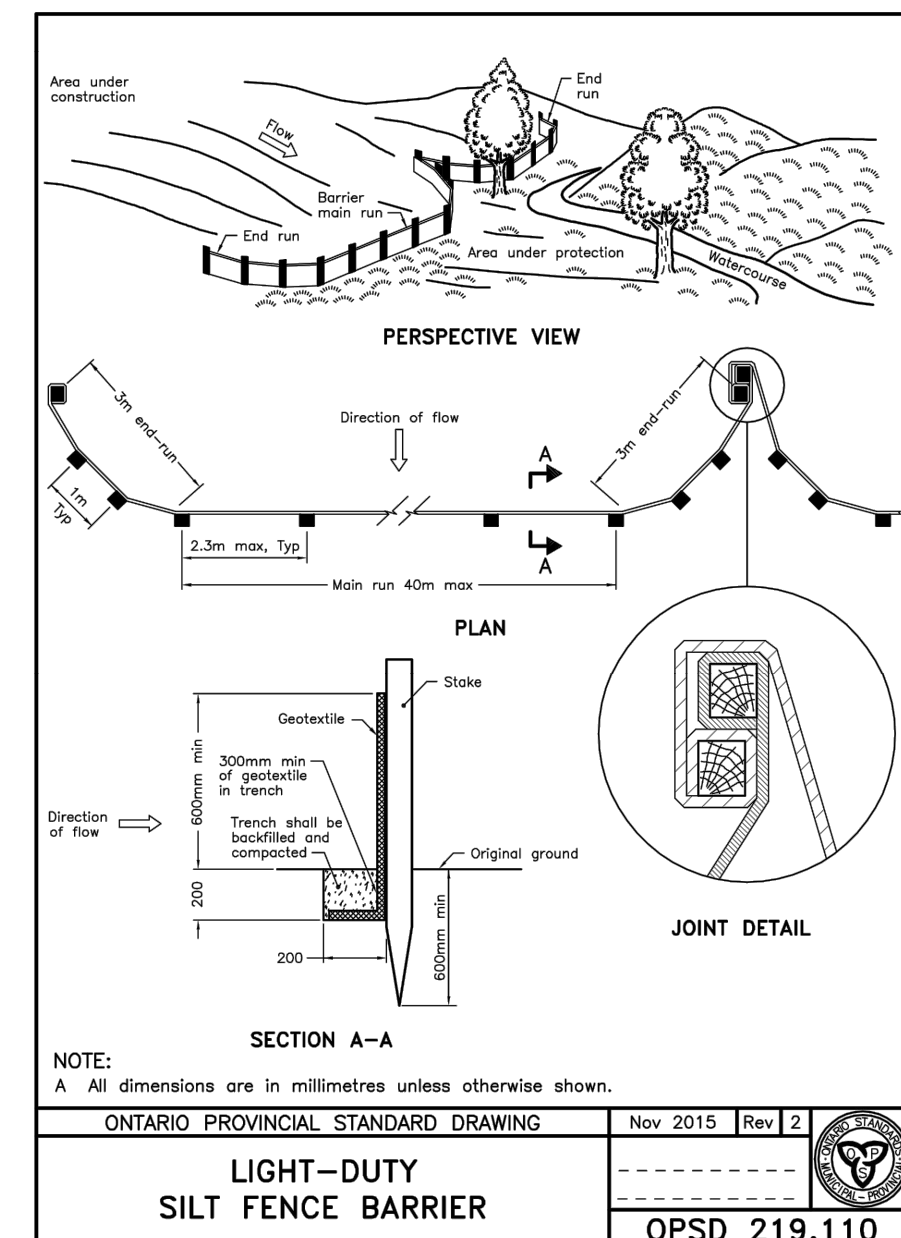


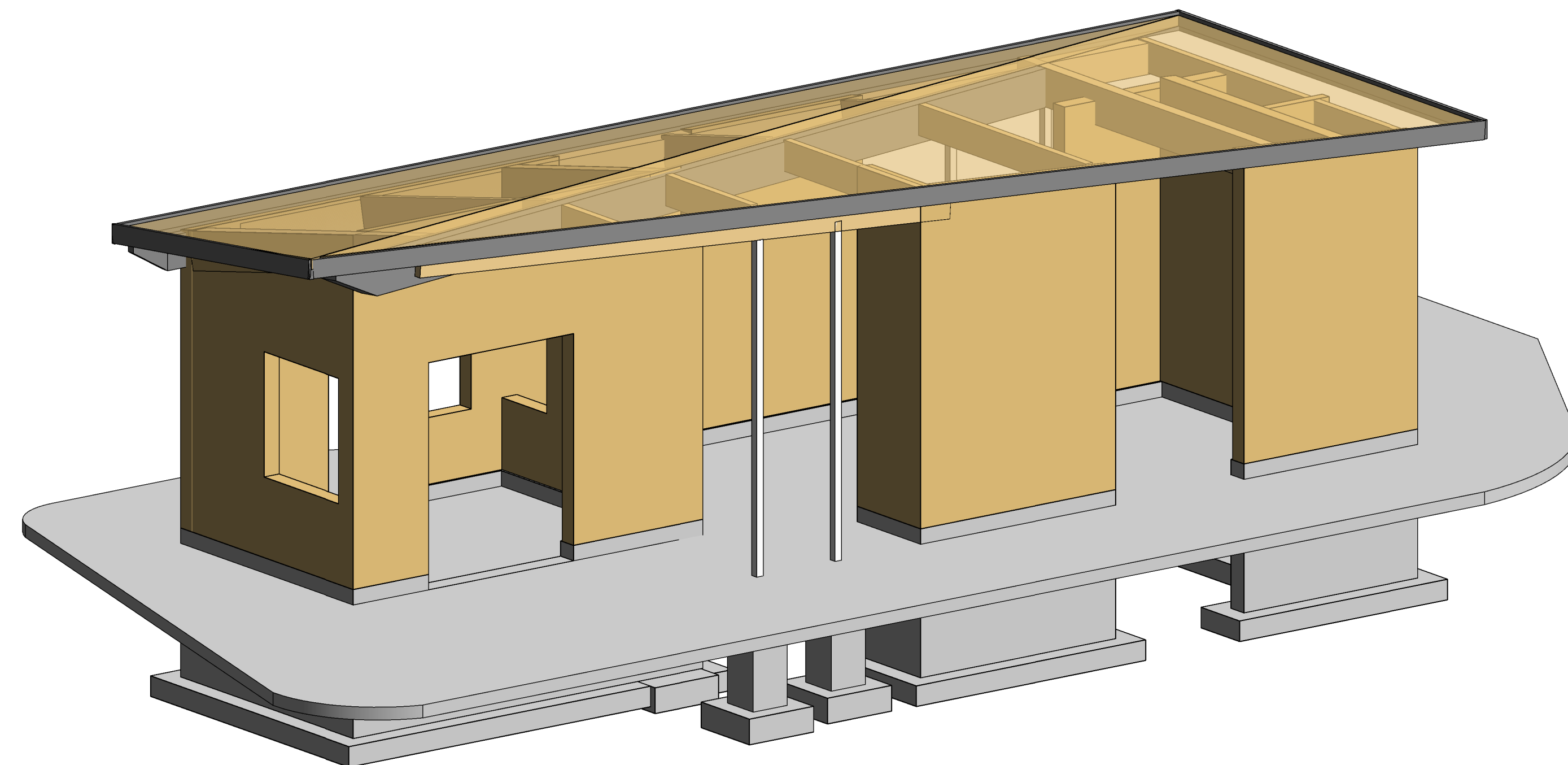
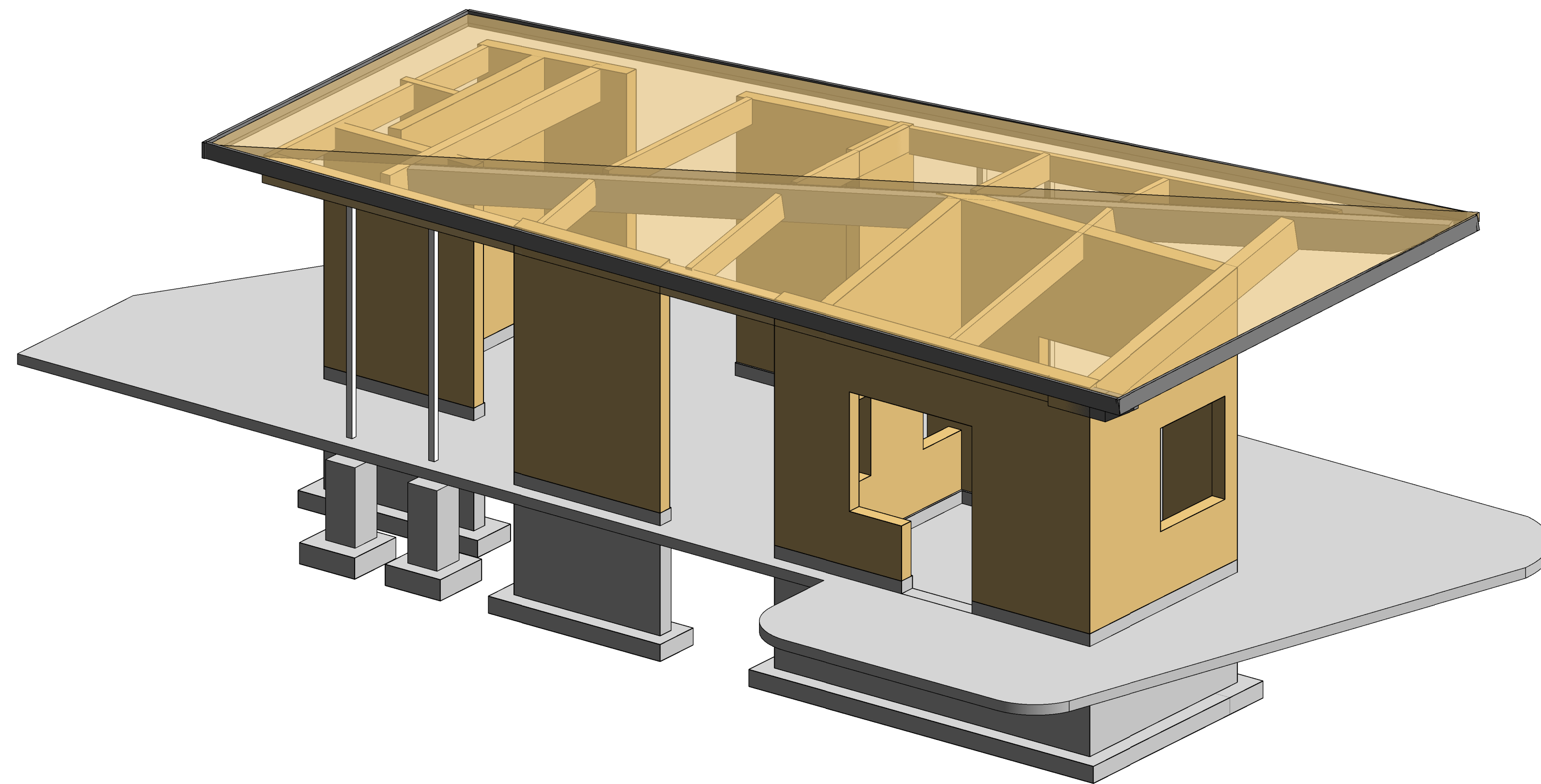
EROSION CONTROL STAGING NOTES

1. INSTALL SILT FENCE AS PER OSPD 219.110
2. INSTALL TOPSOIL & SOD ON ALL DISTURBED AREAS
3. REMOVE SILT FENCE

EROSION CONTROL NOTES

1. THE PROPOSED WORKS SHALL BE CARRIED OUT IN SUCH A MANNER THAT A MINIMUM AMOUNT OF EROSION OCCURS AND SUCH THAT SEDIMENTATION FACILITIES CONTROL ANY EROSION THAT DOES OCCUR.
2. ALL TEMPORARY SILTATION CONTROLS ARE TO BE CONSTRUCTED BEFORE CONSTRUCTION STARTS AND MAINTAINED FOR THE DURATION OF CONSTRUCTION.
3. SEDIMENT ACCUMULATION OF MORE THAN 0.3 METERS IS TO BE REMOVED IMMEDIATELY.
4. INSPECT SILT FENCING AFTER EVERY SIGNIFICANT RAINFALL EVENT AND MAINTAIN AS REQUIRED, OR AT THE DIRECTION OF THE ENGINEER.
5. EROSION AND SEDIMENT CONTROL METHODS ARE TO BE CONTINUOUSLY EVALUATED AND UPGRADES ARE TO BE IMPLEMENTED, WHEN NECESSARY.
6. ENSURE THAT APPROPRIATE RESPONSE IS TAKEN FOR SPILLS AND ANY INCIDENTS ARE PROPERLY DOCUMENTED AND REPORTED.
7. AT THE COMPLETION OF CONSTRUCTION, ANY EXCESS MATERIAL SHALL BE REMOVED FROM THE SITE.
8. ALL DISTURBED AREAS ARE TO HAVE SOIL INSTALLED WITHIN 30 DAYS.
9. REMOVE SILT FENCE AND ANY OTHER EROSION/SILTATION CONTROL MEASURES ONCE ALL CONSTRUCTION HAS BEEN COMPLETED AND ALL VEGETATION HAS BEEN ESTABLISHED OR AT THE DIRECTION OF THE ENGINEER.





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Consultant:



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(416) 551-1611

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City of Peterborough

BEAVERMEAD CAMPGROUND GATEHOUSE

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Project North :

Due North :

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Drawing Title :

3D - VIEWS

Scale :

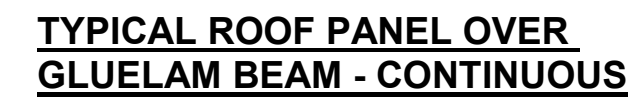
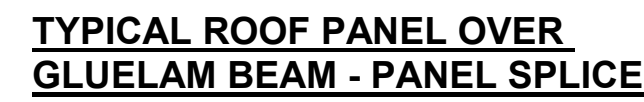
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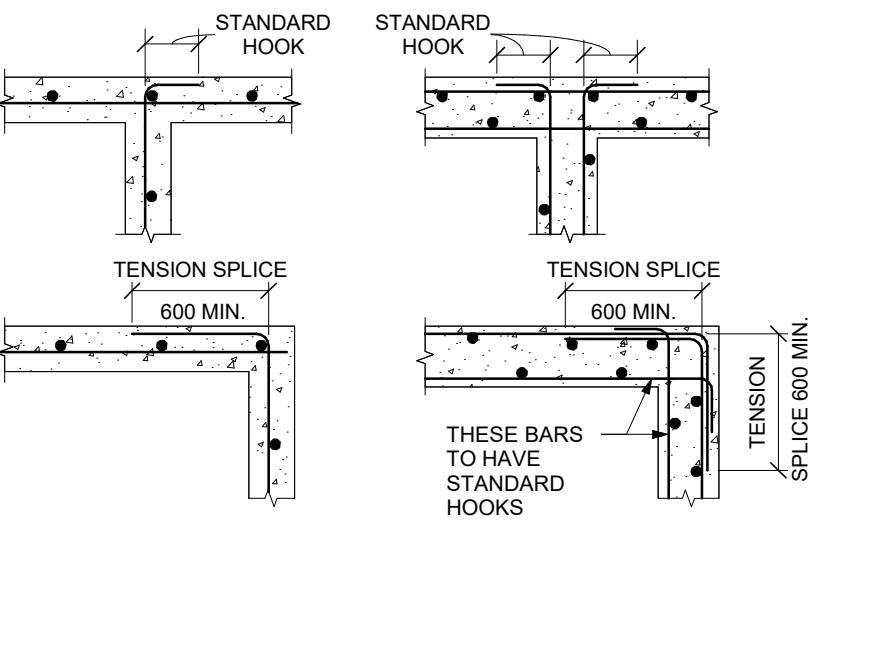
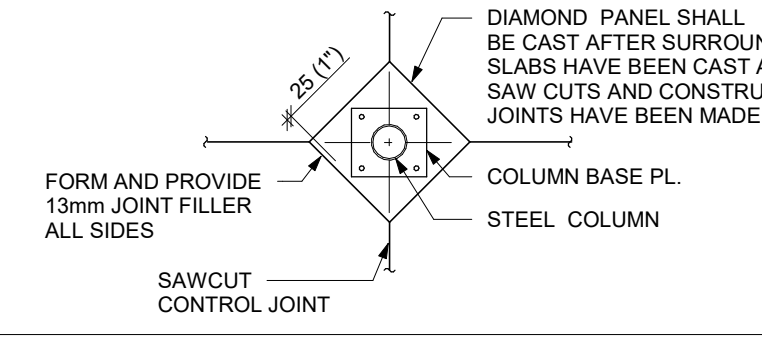
Job No. : 2150


Drawn by : OH

Drawing No. :

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DESIGN CODE	CONCRETE WALLS	SLAB ON GRADE REINF. & CONTROL JOINTS	WOOD FRAMING	CROSS-LAMINATED TIMBER (CLT)	GLUE-LAMINATED TIMBER: GLULAM (GL)
<p>1. THE COMPLETED BASE BUILDING STRUCTURE SHOWN ON THE STRUCTURAL DRAWINGS HAS BEEN DESIGNED IN SUBSTANTIAL ACCORDANCE WITH THE AMENDED ONTARIO BUILDING CODE 2012 WHICH IS BASED ON THE NATIONAL BUILDING CODE OF CANADA 2015.</p> <p>GENERAL NOTES</p> <p>1. THE USE OF THESE DRAWINGS IS LIMITED TO THAT IDENTIFIED IN THE REVISIONS COLUMN.</p> <p>2. THE INFORMATION ON THESE DRAWINGS SHALL NOT BE USED FOR ANY OTHER PROJECT OR WORKS. THE INFORMATION ON THESE DRAWINGS APPLIES SOLELY TO THIS PROJECT.</p> <p>3. THE DRAWINGS DO NOT SHOW COMPONENTS THAT MAY BE NECESSARY FOR CONSTRUCTION SAFETY. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR SAFETY IN AND ABOUT THE JOB SITE DURING CONSTRUCTION, AND THE DESIGN AND ERECTION OF ALL TEMPORARY STRUCTURES, FORMWORK, FALSE WORK, SHORING, ETC. REQUIRED TO COMPLETE THE WORK.</p> <p>4. "NON-STRUCTURAL" OR "SECONDARY STRUCTURAL" ELEMENTS ARE NOT PART OF THE STRUCTURAL DESIGN SHOWN ON THESE DRAWINGS. SUCH ELEMENTS ARE DESIGNED, DETAILED AND REVIEWED IN THE FIELD BY OTHERS. THEY APPEAR ON DRAWINGS OTHER THAN THESE DRAWINGS OF AMR ENGINEERING LIMITED, WHERE STRUCTURAL ENGINEERING RESPONSIBILITY IS REQUIRED FOR THESE ELEMENTS. THIS SHALL BE PROVIDED BY SPECIALTY STRUCTURAL ENGINEERS, WHO SHALL ALSO PROVIDE ANY LETTERS REQUIRED BY BUILDING PERMIT AUTHORITIES.</p> <p>5. SHOP DRAWINGS FOR NON-STRUCTURAL ELEMENTS WHICH MAY AFFECT THE PRIMARY STRUCTURAL SYSTEM SHALL BE SUBMITTED TO AMR ENGINEERING LIMITED. THESE DRAWINGS WILL BE REVIEWED ONLY FOR THE EFFECT OF THE ELEMENT ON THE PRIMARY STRUCTURAL SYSTEM.</p>	<p>1. DETAILS OF HORIZONTAL REINFORCEMENT AT CORNERS</p> 	<p>1. SLAB ON GRADE SHALL BE PLACED ON SOIL CAPABLE OF SUSTAINING 25.0 kPa MIN. WITHOUT SETTLEMENT RELATIVE TO THE BUILDINGS FOOTINGS. IN AREAS WHERE S.O.G. USED TO SUPPORT TEMPORARY SHORING LOADS, LARGER SUBGRADE CAPACITIES MAY BE REQUIRED PER LOADS SUPPLIED BY TEMPORARY WORKS ENGINEER.</p> <p>2. U.N.O REINFORCE SLAB ON GRADE WITH 152X152MM/18.7XMM/18.7 WELDED WIRE MESH (50MM FROM TOP).</p> <p>3. UNLESS MORE RIGOROUS REQUIREMENTS ARE INDICATED ELSEWHERE ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS, SPACE CONTROL JOINTS AT 4500 mm O/C MAXIMUM.</p> <p>4. SAWCUT JOINTS 5mm WIDE AND 25 mm DEEP AS SOON AS PRACTICAL, BUT NO LATER THAN 24 HOURS AFTER PLACEMENT OF SLAB. USE EQUIPMENT THAT DOES NOT "RAVEL" THE EDGES OF THE CUT. SEAL AS REQUIRED.</p> <p>5. UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS, RUN ANY SLAB ON GRADE REINFORCEMENT THROUGH THE JOINTS.</p> <p>6. UNLESS NOTED OTHERWISE, SAWCUT DIAMOND PATTERN AROUND COLUMNS, 150mm CLEAR, AND DO NOT RUN REINFORCEMENT THROUGH. PLACE INFILL AROUND COLUMN 28 DAYS AFTER FORM SLAB ON GRADE PLACED.</p> <p>7. UNLESS NOTED OTHERWISE, FORM A DIAMOND SHAPE AROUND COLUMNS, 150mm CLEAR, AND DO NOT RUN REINFORCEMENT THROUGH. PLACE INFILL AROUND COLUMN 28 DAYS AFTER FORM SLAB ON GRADE PLACED.</p> 	<p>ALL DESIGN, DETAILS, MATERIALS AND CONSTRUCTION PROCEDURES SHALL CONFORM TO CURRENT EDITIONS OF THE FOLLOWING AS A MINIMUM:</p> <ul style="list-style-type: none"> ONTARIO BUILDING CODE 2012 PART 9 CAN/CSA-086 - ENGINEERING DESIGN IN WOOD CSA 0121 - DOUGLAS FIR PL. WYOOD CAN/CSA-LO 4000 - PARALLAMS AND MICROLAMS CAN/CSA-0122 - STRUCTURAL GLUED-LAMINATED TIMBER CSA 0437 SERIES - STANDARDS FOR OSB AND WAFERBOARD CSA B111 - WIRE NAILS, SPIKES AND STAPLES CAN/CSA-534 - MISCELLANEOUS BOLTS AND SCREWS CANADIAN WOOD-FRAME HOUSE CONSTRUCTION CMHC "WOOD DESIGN MANUAL" - CANADIAN WOOD COUNCIL <p>ANY CHANGES TO THE FRAMING SHOWN ON THESE DRAWINGS SHALL HAVE PRIOR WRITTEN APPROVAL OF AMR. FRAMING CHANGES WHICH HAVE NOT BEEN SO APPROVED WILL BE REJECTED.</p> <p>CONFIRM ALL DIMENSIONS AND OUTLINES WITH THE ARCHITECTURAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS, ELEVATIONS AND DETAILS.</p> <p>2. ANY TIMBER NOT GRADE MARKED WILL BE REJECTED.</p> <p>3. FINISHES SHALL BE DETAILED TO ACCOMMODATE SHRINKAGE OF THE TIMBER OVER TIME.</p> <p>4. DO NOT COVER WOOD FRAMING WITH FINISHES UNTIL AMR'S FRAMING REVIEW IS COMPLETE. PROVIDE 48 HOURS ADVANCE NOTICE WHEN FRAMING REVIEWS ARE REQUIRED.</p> <p>5. NOTCHING AND DRILLING OF STRUCTURAL ELEMENTS SHALL FOLLOW THE GUIDELINES SET FORTH IN THE BUILDING CODE PART 9, UNLESS OTHERWISE APPROVED IN WRITING BY AMR.</p> <p>6. NOTCHING AND DRILLING OF STRUCTURAL ELEMENTS SHALL FOLLOW THE GUIDELINES SET FORTH IN THE BUILDING CODE PART 9, UNLESS OTHERWISE APPROVED IN WRITING BY AMR.</p> <p>7. ANY TIMBER NOT GRADE MARKED WILL BE REJECTED. TIMBER SHALL BE DRY SPRUCE #1 OR #2 CONFORMING TO CSA-086-14 U/N OTHERWISE.</p> <p>8. TRUS JOISTS AND MICRO LAM BEAMS (MLB) SHALL BE AS MANUFACTURED BY TRUS JOIST CANADA LTD. OR AN APPROVED EQUAL.</p> <p>9. ALL LOAD BEARING STUDS SHALL HAVE ONE ROW OF SOLID BLOCKING AT MID-HEIGHT UNLESS NOTED OTHERWISE.</p> <p>10. PROVIDE 38X38 BRIDGING AT 2000 C/C MAXIMUM FOR FLOOR JOISTS.</p> <p>11. BRIDGING FOR TRUSS JOISTS SHALL BE AS RECOMMENDED BY THE MANUFACTURER, HOWEVER, PROVIDE MINIMUM ONE ROW OF BRIDGING</p> <p>12. PROVIDE ADEQUATE TEMPORARY BRACING FOR ALL STUD WALLS DURING CONSTRUCTION.</p> <p>13. ALL CONNECTIONS, UNLESS NOTED OTHERWISE, TO BE IN ACCORDANCE WITH O.B.C 2012, TABLE 9.23.3.4. & TABLE 9.23.3.5</p> <p>14. ALL WOOD FRAME CONSTRUCTION SHALL SATISFY THE FOLLOWING CONSTRUCTION TOLERANCES AS A MINIMUM. REFER TO ARCHITECTURAL AND WARRANTY REQUIREMENTS FOR ADDITIONAL TOLERANCE SPECIFICATIONS.</p> <p>A. FLOORS - NOT MORE THAN 6 mm IN 3 m OUT OF LEVEL.</p> <p>B. WALLS - NOT MORE THAN 6 mm IN 2.4 m OUT OF PLUMB. NOT MORE THAN 6 mm IN 3 m FOR ANY BOWING.</p> <p>C. OVERALL - BUILDING WALLS AND FLOORS SHALL NOT BE MORE THAN 10 mm DIFFERENCE IN MEASUREMENT FROM DIMENSIONS SHOWN ON CONTRACT DOCUMENTS.</p>	<p>1. ALL WORK TO APA STANDARD FOR PERFORMANCE RATED CLT ANSI/APA PRG 320-2011 AND CROSS LAMINATED TIMBER PLANT QUALIFICATION STANDARD BY FPNINOVATIONS.</p> <p>2. SUPPLIER TO SUBMIT ADEQUATE PRODUCT CERTIFICATES TO ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO COMMENCEMENT OF FABRICATION. FABRICATION SHALL START ONLY AFTER REVIEW OF DOCUMENTS AND WRITTEN APPROVAL BY STRUCTURAL ENGINEER.</p> <p>3. CONFIRM ALL DIMENSIONS, OUTLINES, ELEVATIONS, AND DETAILS WITH ARCHITECTURAL DRAWINGS.</p> <p>4. CLT PANELS CONSIST OF CROSSWISE STACKED AND GLUED TOGETHER LAYERS OF SPRUCE PLANKS. BONDING TO BE CARRIED OUT EXCLUSIVELY WITH APPROVED ADHESIVES. PLANKS TO BE STRESS AND QUALITY GRADED AND MACHINE DRIED.</p> <p>5. THE PANEL CONSISTS OF 3, 5, 7 OR MORE LAYERS. THE LAMINATION THICKNESS VARIES BETWEEN 19MM(3/4") AND 38MM(1 1/2") DEPENDING ON STRUCTURAL REQUIREMENT AS SHOWN ON STRUCTURAL DRAWINGS UNLESS OTHERWISE NOTED</p> <p>6. CLT PANELS SHALL HAVE A MOISTURE CONTENT OF 12% (±2%)</p> <p>7. PANEL SURFACES TO BE IN ACCORDANCE WITH ARCHITECTURAL REQUIREMENTS.</p> <p>8. KEEP THE PANELS CONSTANTLY PROTECTED FROM THE WEATHER DURING TRANSPORTATION, STORAGE AND ERECTION. STORE CLT PANELS OFF THE GROUND WITH SPACER BLOCKS PLACED BETWEEN MEMBERS.</p> <p>9. ANCHOR POINTS FOR INSTALLATION STRAPS TO HAVE MIN 89MM [3 1/2"] EDGE / END DISTANCE.</p> <p>10. UNLESS NOTED OTHERWISE, ALL STRUCTURAL STEEL CONNECTING CLT PANELS ELEMENTS TO EACH OTHER AND TO SUPPORTING MEMBERS SHALL BE DETAILED, SUPPLIED AND TEST FITTED IN THE SHOP BY THE CLT SUPPLIER.</p> <p>11. UNLESS NOTED OTHERWISE, USE 8.0MM [5/16"] SELF TAPPING SCREWS TO CONNECT PANELS 76MM [3"] MIN LENGTH OF PENETRATION INTO CONNECTED MEMBER. SEE TYPICAL DETAILS FOR FURTHER INFORMATION.</p> <p>12. UNLESS NOTED OTHERWISE, USE SIMPSON CONNECTORS OR EQUIVALENT WHERE REQUIRALL NAIL HOLES IN CONNECTORS, INCLUDING STRAPS, TO BE FILLED WITH 60X60MM [1 1/4"X2 3/8" GUNNEBO NAILS (ANNULAR RINGED NAILS) OR EQUIVALENT. SUBSTITUTIONS MUST HAVE WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION. SEE TYPICAL DETAILS FOR FURTHER INFORMATION.</p> <p>13. STEEL HARDWARE SHALL BE ASTM A36 OR BETTER AND BOLTS SHALL BE A307, HOT DIPPED GALVANIZED. ALL BOLTS AND LAG BOLTS BEARING AGAINST TIMBER SHALL HAVE STANDARD "CUT" (OVERSIZED) WASHERS UNLESS NOTED OTHERWISE.</p> <p>14. IN TRANSITION AREA BETWEEN WOOD ELEMENTS AND CONCRETE OR MASONRY, WOOD ELEMENTS TO BE PROTECTED FROM ASCENDING MOISTURE. PROVIDE LIGHT-GAUGE METAL, ASPHALT-IMPREGNATED BUILDING PAPER, CLOSED-CELL FOAM GASKET MATERIAL, TYPE S ROLL ROOFING, OR 0.05 MM POLYETHYLENE AS A MOISTURE BARRIER.</p> <p>15. IN TRANSITION AREA BETWEEN WOOD ELEMENTS AND CONCRETE OR MASONRY, WOOD ELEMENTS TO BE PROTECTED FROM ASCENDING MOISTURE. PROVIDE LIGHT-GAUGE METAL, ASPHALT-IMPREGNATED BUILDING PAPER, CLOSED-CELL FOAM GASKET MATERIAL, TYPE S ROLL ROOFING, OR 0.1 MM POLYETHYLENE AS A MOISTURE BARRIER. SEE TYPICAL DETAILS FOR FURTHER INFORMATION.</p> <p>16. AT JOINT LOCATIONS BETWEEN WALL TO FLOOR/ROOF PANELS AS WELL AS FLOOR/ROOF TO FLOOR/ROOF PANELS, USE JOINT SEALANT FOR IMPROVED NOISE PERFORMANCE. SEE ARCHITECTURAL DRAWINGS FOR DETAILS.</p> <p>17. RE-TIGHTEN ALL ACCESSIBLE BOLTS AT END OF PROJECT.</p> <p>18. FINISHES SHALL BE DETAILED TO ACCOMMODATE SHRINKAGE/MOVEMENT OF CLT PANELS.</p> <p>19. NON-LOAD BEARING ELEMENTS TO BE DETAILED TO ACCOMMODATE MOVEMENT / DEFLECTION AS OUTLINED UNDER "SECONDARY COMPONENTS AND THEIR ATTACHMENTS".</p> <p>20. CONFIRM SERVICE CHANNELS INCORPORATED IN CLT PANELS WITH ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS. ALL CUTS AND DRILLS TO BE SHOWN ON SHOP DRAWINGS AND TO BE APPROVED BY STRUCTURAL ENGINEER PRIOR TO FABRICATION.</p> <p>21. SUBMIT PDF SHOP DRAWINGS SHOWING ALL APPLICABLE DETAILS AND MATERIAL SPECIFICATIONS TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL BE ACCOMPANIED BY A CERTIFICATE OF CONFORMANCE TO MANUFACTURING STANDARD AS OUTLINED UNDER NOTED #1.</p> <p>22. AFFIX AUTHORIZED LABEL TO ALL MEMBERS SUPPLIED. ALSO IDENTIFY EACH MEMBER WITH MARK NUMBER.</p> <p>23. SHOP DRAWINGS OF MEMBERS, CONNECTIONS AND COMPONENTS DESIGNED BY THE CONTRACTOR SHALL BE SIGNED AND SEALED BY THE SPECIALTY ENGINEER AND SUBMITTED WITH A STATEMENT OF PRODUCT COMPLIANCE WITH DRAWING SPECIFICATIONS AND STANDARDS.</p> <p>24. ANY CHANGES TO THE FRAMING SHOWN ON THESE DRAWINGS SHALL HAVE PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.</p> <p>25. STRUCTURAL ENGINEER MUST COMPLETE FRAMING REVIEW BEFORE FINISHES CAN BE APPLIED TO WOOD FRAMING.</p> <p>26. SIZES ON STRUCTURAL DRAWINGS CAN BE REVISED BY THE CLT SUPPLIER IF THE SPECIALTY ENGINEER DESIGNS THE VARIANCE TO MEET ALL STRUCTURAL, FIRE AND DEMONSTRATION REQUIREMENTS TO THE SATISFACTION OF THE STRUCTURAL ENGINEER AND ARCHITECT.</p> <p>27. COORDINATE ALL ROOF PENETRATIONS WITH CLT SUPPLIER.</p> <p>28. ALL EXPOSED CLT CONNECTIONS SUPPORTING, OR WITHIN FIRE RATED ASSEMBLIES TO MEET FRR REQUIREMENTS. SEE ARCHITECT DRAWINGS FOR DETAIL.</p>	<p>1. ALL WORK TO CSA STANDARD 086 AND REFERENCED DOCUMENTS.</p> <p>2. GLULAM MEMBERS SHALL BE DOUGLAS FIR 24F-E (24F-EX FOR CANTILEVER OR CONTINUOUS BEAMS) STRESS GRADE WITH QUALITY APPEARANCE GRADE AND 15% MAX. MOISTURE CONTENT. INDUSTRIAL APPEARANCE GRADE MAY BE USED WHERE BEAMS ARE TO BE CONCEALED.</p> <p>3. GLULAM MANUFACTURER MUST QUALIFY UNDER CAN/CSA-0177-M89 (R2003).</p> <p>4. PROVIDE FULL GLULAM PACKAGE WITH POLYURETHANE RESIN (W/100) ADHESIVE MEETING THE REQUIREMENTS OF ANSI A190.1.</p> <p>5. CAMBER SIMPLE SPAN BEAMS 10MM (3/8") PER 3000 (10'-0") OF SPAN.</p> <p>6. SUBMIT PDF SHOP DRAWINGS SHOWING ALL APPLICABLE DETAILS AND MATERIAL SPECIFICATIONS TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS SHALL BE ACCOMPANIED BY A CERTIFICATE OF CONFORMANCE TO MANUFACTURING STANDARD.</p> <p>7. AFFIX AUTHORIZED LABEL TO ALL MEMBERS SUPPLIED. ALSO IDENTIFY EACH MEMBER WITH MARK NUMBER.</p> <p>8. STORE GLULAM OFF THE GROUND WITH SPACER BLOCKS PLACED BETWEEN MEMBERS. KEEP WRAPPING ON THE MEMBERS UNTIL PERMANENT PROTECTION FROM THE WEATHER IS IN PLACE BUT CUT HOLES ON UNDERSIDE OF WRAPPING TO PREVENT THE ACCUMULATION</p>

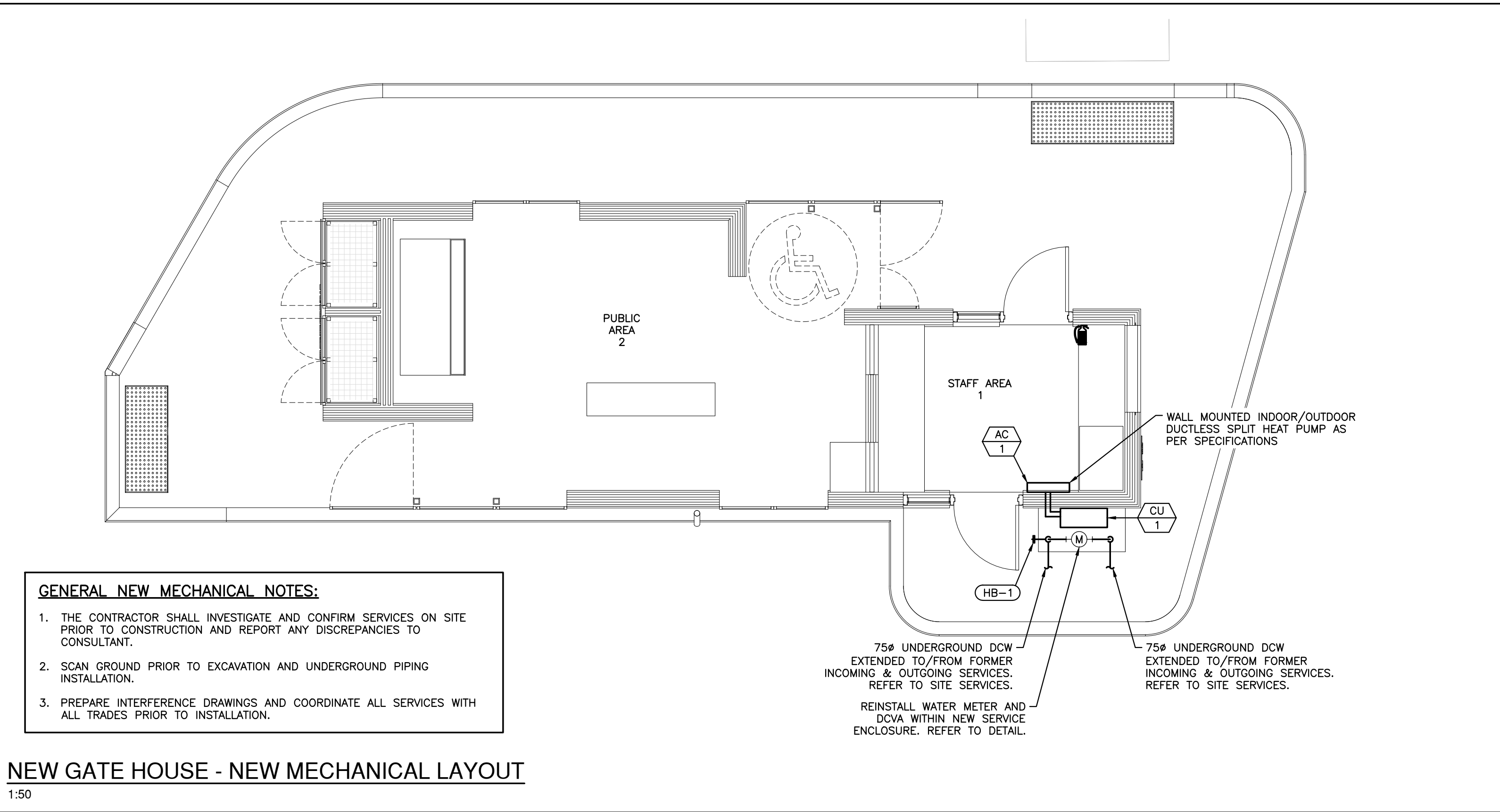
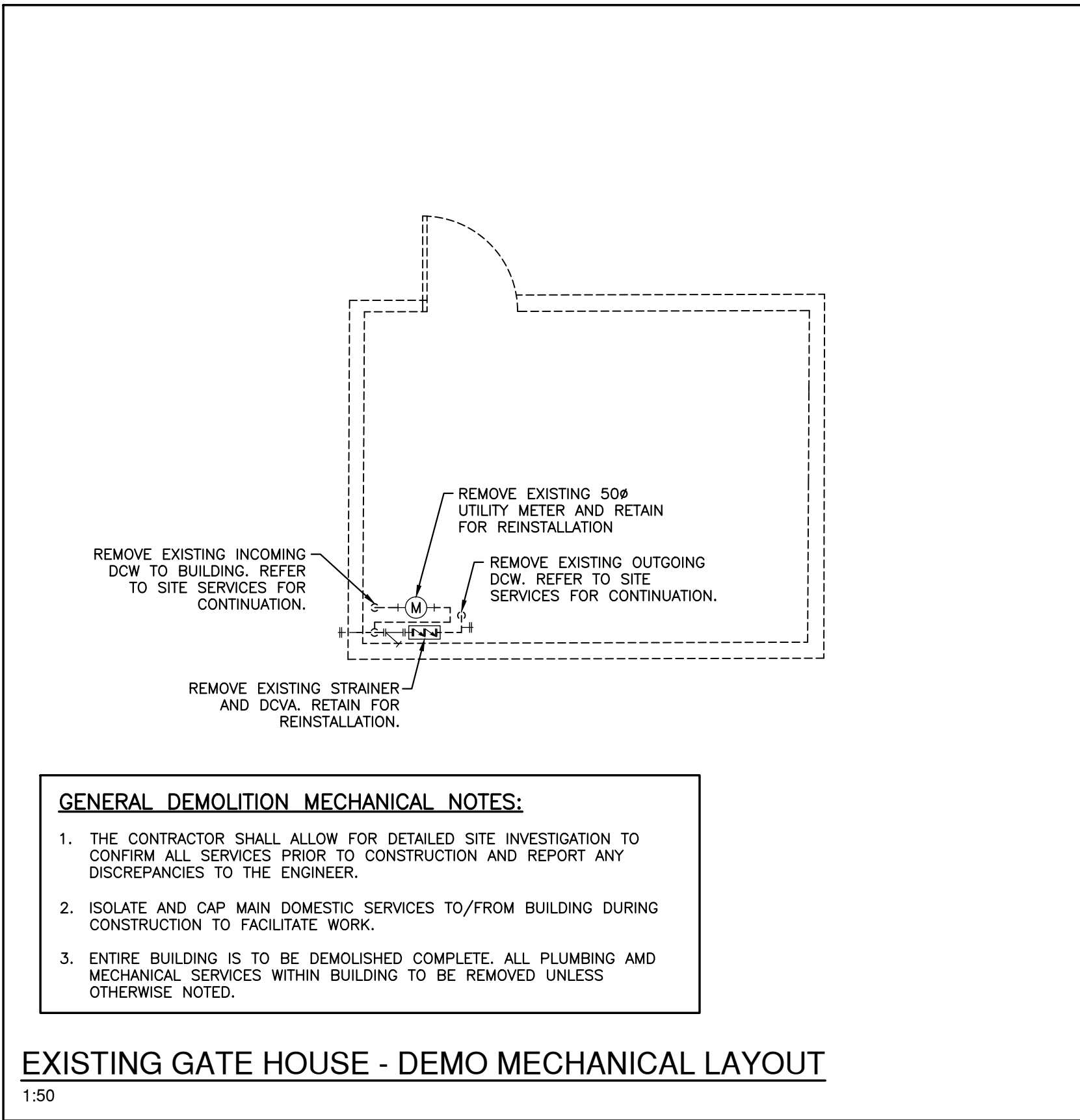
LETT		
LETT ARCHITECTS INC. 138 Simcoe St. Peterborough ON K9H 2H5		
t. 705 743 3311 studio@lett.ca	f. 705 743 0056 lett.ca	
Consultant:		
AMR		
AMR ENGINEERING LTD. STRUCTURAL ENGINEERS 920 Alness St suite 205, Toronto, ON M3J 2H7 (416) 551-1611		
Stamp: 		
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Project : City of Peterborough		
BEAVERMEAD CAMPGROUND GATEHOUSE		
Enter address here		
Project North :	True North :	
Issues / Revisions		
No.	Description	Date
1	ISSUED FOR 75% REVIEW	JUL 23 2021
2	ISSUED FOR BUILDING PERMIT	AUG 16 2021
3	ISSUED FOR TENDER	AUG 16 2021
Drawing Title : GENERAL NOTES		
Scale : 1 : 100		
Date :	AUG 16 2021	
Job No. :	2150	
Drawn by :	Author	
Drawing No. :	S501	



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108-209 DUNDAS STREET EAST, WHITEY ONTARIO
info@durhamenergy.com / www.durhamenergy.com
DES JOB No.: 21-509 DRAWING SIZE: D

Stamp:



AIR CONDITIONING UNIT SCHEDULE		
TAG		AC-1
SERVICE		STAFF AREA 1
MANUFACTURER		DAIKIN
TYPE		WALL MOUNTED
MODEL		FTXB09AXVJU
REFRIGERANT		R410A
INDOOR COOLING CONDITIONS	*F	80DB/67WB
OUTDOOR COOLING CONDITIONS	*F	95DB/75WB
INDOOR HEATING CONDITIONS	*F	70DB/60WB
OUTDOOR HEATING CONDITIONS	*F	47DB/43WB
RATED PIPING LENGTH	ft	25
COOLING CAPACITY	btuh	8,800
SENSIBLE CAPACITY	btuh	7,877
HEAT CAPACITY	btuh	9,400
AIR FLOW	cfm	272-330
EXTERNAL STATIC PRESSURE	in.w.c	0/0
GAS PIPE CONNECTION	inches	3/8
LIQUID PIPE CONNECTION	inches	1/4
CONDENSATE CONNECTION	inches	3/4
ELECTRICAL	volt/ph	208-230/1
INDOOR FAN FLA	amps	0.2
SOUND PRESSURE LEVEL	dBA	30-42
UNIT DIMENSIONS	inches	35Wx 11.7Dx 8.25H
APPROX. WEIGHT	lbs	20
CONTROLS		-MANUFACTURER SUPPLIED T-STAT/CONTROLLER
ALTERNATE MANUFACTURERS		CARRIER, FUJITSU, YORK

CONDENSING UNIT SCHEDULE		
TAG		CU-1
SERVICE		AC-1
MANUFACTURER		DAIKIN
TYPE		WALL MOUNTED HEAT PUMP
MODEL		RXB09AXVJU
REFRIGERANT		R410A
INDOOR COOLING CONDITIONS (DB/WB)	*F	80/67
OUTDOOR COOLING CONDITIONS (DB/WB)	*F	95/75
INDOOR HEATING CONDITIONS (DB/WB)	*F	70/60
OUTDOOR HEATING CONDITIONS (DB/WB)	*F	47/43
RATED PIPING LENGTH	ft	25
RATED COOLING CAPACITY	btuh	8,800
COOLING SEER		17
RATED HEATING CAPACITY	btuh	9,400
HEATING COP		3.56
AIRFLOW RATE	cfm	900
ELECTRICAL		208-230/1
GAS PIPE CONNECTION	inches	3/8
LIQUID PIPE CONNECTION	inches	1/4
MCA	omps	7.0
MCCP		15
SOUND PRESSURE LEVEL	dBA	46
UNIT DIMENSIONS	inches	28Wx 21.5Dx 11.5H
APPROX. WEIGHT	lbs	53
MAX TOTAL PIPE LENGTH	feet	65
MAX VERTICAL PIPE LENGTH	feet	32
CONTROLS		-MANUFACTURER SUPPLIED T-STAT/CONTROLLER
ACCESSORIES		-INVERTER COMPRESSOR -WALL BRACKETS
ALTERNATE MANUFACTURERS		CARRIER, FUJITSU, YORK

- PLUMBING AND HVAC NOTES:**
1. PROVIDE ALL TRENCHING, EXCAVATING AND BACKFILL FOR UNDERGROUND PLUMBING WITHIN 1.5m OF BUILDING.
 2. INSULATE ALL NEW DOMESTIC COLD WATER PIPING WITH 1"(25mm) INSULATION. PROVIDE PVC JACKET OVER INSULATION.
 3. ALL NEW HOSE BIBBS TO BE COMPLETE WITH VACUUM BREAKERS.
 4. PROVIDE SLEEVES FOR PIPES THROUGH CONCRETE SLAB. FILL VOIDS AROUND PIPES. ENSURE NO CONTACT BETWEEN DISSIMILAR METALS.
 5. PROVIDE CONDENSATE DRAINS C/W TRAPS FOR NEW INDOOR AIR CONDITIONING EQUIPMENT AND RUN OUTSIDE TO GRADE.
 6. LABEL ALL PIPING COMPLETE WITH SERVICE AND FLOW ARROWS.
 7. PROVIDE ACCESS DOORS WHERE REQUIRED AND TURN OVER TO GENERAL CONTRACTOR FOR INSTALLATION.
 8. PERFORM DOMESTIC WATER QUALITY TEST AFTER ALL NEW PLUMBING WORK. SUBMIT CERTIFICATE OF ANALYSIS FROM CERTIFIED TESTING AGENCY TO CONSULTANT AND INCLUSION IN CLOSEOUT DOCUMENTATION.

- PLUMBING SPECIFICATIONS:**
1. ALL PLUMBING PRODUCTS SHALL BE "LEAD-FREE" CERTIFIED TO ANSI/NSF 372.
 2. ALL NEW ABOVE GROUND WATER PIPING SHALL BE TYPE 'L' HARD COPPER WITH SOLDER JOINTS.
 3. ALL NEW UNDERGROUND WATER PIPING SHALL BE COPPER TYPE 'K'.
 4. VALVE TYPE:
 - .1 2" AND UNDER: BALL VALVE.
 - .2 2-1/2" AND OVER: LUG TYPE BUTTERFLY VALVES.
 5. BALL VALVES SHALL BE LEAD FREE WITH SOLDERED OR THREADED ENDS. BALL VALVES SHALL BE EQUAL TO KITZ #858 & #859. ALL VALVES SHALL BE LINE SIZE.
 6. PRESSURE GAUGES SHALL BE EQUAL TO WINTERS MODEL PEM-LF, NSF-61-372 LEAD-FREE CERTIFIED, CRN REGISTERED WITH BACK OR BOTTOM CONNECTION TO SUIT INSTALLATION.
 7. INSULATION:
 - .1 EXTERNAL PIPE INSULATION SHALL BE RIGID, SECTIONAL FIBERGLASS TYPE AND BE COMPLETE WITH FACTORY APPLIED ALL PURPOSE VAPOUR BARRIER. PRE-FORMED INSULATION SHALL BE USED AT PIPE FITTINGS, VALVES, ETC. PROVIDE NON-CRUSHING INSULATION AT ALL PIPE HANGERS AND PROVIDE SADDLES.
 - .2 INSULATION THICKNESS 1"(25mm)
 8. RE-TEST ALL BACKFLOW PREVENTERS AND SUBMIT "CROSS CONNECTION REPORT" TO CONSULTANT.

- PLUMBING FIXTURE SCHEDULE**
- HB - HOSE BIBB C/W VACUUM BREAKER**
- Acorn #8121-SSLFCR Hydrant - with flange, stainless steel lead free and atmospheric vacuum breaker. Hose valve, replaceable cartridge, rough chrome plated finish, brass body, vandal-resistant lock shield bonnet, removable wheel handle. 3/4" (19 mm) NPT female inlet, 3/4" (19 mm) male hose thread outlet.

- HVAC MATERIAL SPECIFICATIONS:**
1. REFRIGERATION PIPING:
 - .1 TYPE 'K' RIGID.
 - .2 PROVIDE P-TRAP AT UNIT, SHUT OFF VALVE, FILTER DRYER, REPLACEMENT CARTRIDGE AND TYPE, AND SIGHT GLASS AT THE CONDENSER. MAKE OIL ADJUSTMENT AS REQUIRED TO SUIT LENGTH OF REFRIGERATION PIPING.
 - .3 FOR REFRIGERATION SYSTEMS LARGER THAN 5 TONS OF COOLING CONTRACTOR SHALL SUPPLY A TSSA CERTIFICATE ON COMPLETION OF INSTALLATION AND PROVIDE TO CONSULTANT.
 - .4 PROVIDE 1"(25mm) INSULATION ON ALL INDOOR & OUTDOOR REFRIGERATION PIPING, SUCTION AND LIQUID LINES SHALL BOTH BE INSULATED OUTSIDE OF BUILDING.
 - .5 PROVIDE UV RESISTANT ALUMINUM JACKET ON OUTDOOR REFRIGERATION PIPING EQUAL TO "3M VENTURECLAD".

- GENERAL NOTES:**
1. OBTAIN, ARRANGE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
 2. THE CONTRACTOR AND ITS SUB-TRADES SHALL ATTEND BI-WEEKLY SITE MEETINGS OR AS ARRANGED BY CONSULTANT OR OWNER.
 3. OBTAIN AND REVIEW THE DESIGNATED SUBSTANCE REPORT FROM THE CLIENT AND COORDINATE ANY DESIGNATED SUBSTANCE ISSUES WITH THE CLIENT PRIOR TO ANY WORK BEING DONE.
 4. PROVIDE SHOP DRAWINGS ELECTRONICALLY IN PDF FORMAT FOR REVIEW. ALL SHOP DRAWINGS MUST BE REVIEWED, STAMPED AND SIGNED BY THE MECHANICAL CONTRACTOR PRIOR TO SUBMITTING TO THE CONSULTANT. REVIEW SHALL INCLUDE BUT NOT BE LIMITED TO: VERIFYING UNIT VOLTAGE WITH ELECTROMETER AND/OR SITE EQUIPMENT PERFORMANCE, DIMENSIONS AND CLEARANCES. SUBMIT SHOP DRAWINGS ELECTRONICALLY TO ARCHITECT/CONTRACT ADMINISTRATOR WITH COPIES TO OWNER AND INFO@DURHAMENERGY.COM.
 5. THOROUGHLY REVIEW AND COORDINATE WITH SITE CONDITIONS AND COMPLETE DRAWING SET PRIOR TO PRICING AND INSTALLATION.
 6. INSTALL ALL WORK IN CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.
 7. DO NOT USE ANY NEW PERMANENT EQUIPMENT FOR TEMPORARY USE DURING CONSTRUCTION WITHOUT WRITTEN APPROVAL. WHERE SYSTEMS ARE USED AND ARE CONTAMINATED BY DUST OR DIRT, THE CONTRACTOR SHALL CLEAN IN A MANNER ACCEPTABLE TO THE CONSULTANT.
 8. MAINTAIN AS-BUILT DRAWINGS ON AN ON-GOING BASIS. DRAWINGS SHALL BE AVAILABLE FOR PERIODIC REVIEW BY THE CONSULTANT DURING CONSTRUCTION.
 9. ALL WORK SHALL COMPLY WITH APPLICABLE CODES.
 10. REMOVE ALL REDUNDANT EQUIPMENT, MATERIALS AND GARBAGE FROM SITE AND DISPOSE OF IN AN APPROVED MANNER. REDUNDANT EQUIPMENT AND MATERIALS SHALL NOT BE ABANDONED IN PLACE.
 11. TRENCHING, EXCAVATION AND BACKFILL FOR UNDERGROUND PLUMBING WITHIN 1.5m OF BUILDING SHALL BE BY THIS CONTRACTOR.
 12. MAINTAIN REQUIRED ACCESS AND CLEARANCE TO ALL EQUIPMENT AND SYSTEMS AS REQUIRED BY CODE AND AS PER MANUFACTURER'S REQUIREMENTS.
 13. TAG ALL EQUIPMENT WITH LAMACOID NAMEPLATES. TAG ALL VALVES WITH LAMACOID NAMEPLATES OR BRASS TAGS ON CHAINS.
 14. THE CONTRACTOR SHALL ARRANGE FOR ROUGH-IN INSPECTIONS BY THE ENGINEER PRIOR TO INSULATING OR CONCEALING ANYTHING. WHERE THIS HAS NOT BEEN ARRANGED IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXPOSE SERVICES FOR INSPECTION AT THE DIRECTION OF THE CONSULTANT.
 15. PERFORM TESTING AND START UP OF ALL SYSTEMS AS REQUIRED BY CODE, THE CONSULTANT, MANUFACTURER'S REQUIREMENTS, AND AUTHORITIES HAVING JURISDICTION. SUBMIT REPORTS TO THE CONSULTANT.
 16. INSTRUCT AND DEMONSTRATE TO THE OWNER ON PROPER OPERATION OF THE SYSTEM. RECORD AND SUBMIT A LOG DATED AND SIGNED BY ALL ATTENDEES.
 17. UPON COMPLETION OF THE PROJECT THE CONSULTANT WILL DO A FINAL REVIEW. UPON RECEIVING THE FINAL INSPECTION REPORT, THE CONTRACTOR MUST CORRECT AND SIGN BACK THE INSPECTION REPORT INDICATING ALL DEFICIENCIES ARE COMPLETED. A RE-INSPECTION WILL ONLY BE DONE ONCE THE CONSULTANT RECEIVES THIS IN WRITING. WHERE THE CONSULTANT PERFORMS THE RE-INSPECTION AND THE WORK IS NOT COMPLETE, THE CONTRACTOR IS RESPONSIBLE FOR REIMBURSING THE CONSULTANT FOR THE FIELD REVIEW. THE FEE FOR ADDITIONAL REVIEWS WILL BE AT THE CONSULTANT'S HOURLY RATES PLUS MILEAGE AND APPLICABLE TAXES TO BE PAID DIRECTLY TO THE CONSULTANT PRIOR TO PERFORMING THE NEXT FIELD REVIEW.
 18. PROVIDE ONE (1) YEAR WARRANTY ON ALL MATERIAL AND LABOUR FROM THE DATE OF SUBSTANTIAL COMPLETION.
 19. PROGRESS DRAWS SHALL INCLUDE MINIMUM \$1,000.00 FOR MANUALS AND AS-BUILT DRAWINGS. TOTAL AMOUNT SHALL REMAIN UNBILLED UNTIL MANUALS AND AS-BUILT DRAWINGS HAVE BEEN SUBMITTED AND APPROVED.
 20. PROVIDE ELECTRONIC COPY OF CLOSE-OUT DOCUMENTS IN PDF FORMAT, ORGANIZED INTO CLICKABLE TABLE OF CONTENTS AND FOLDERS INCLUDING, WARRANTY LETTER, SHOP DRAWINGS, O&Ms, BALANCE REPORT, AND AS-BUILT DRAWINGS. AS-BUILT DRAWINGS SHALL INCLUDE COMPLETE DRAWING SET WITH ANY CHANGES MARKED CLEARLY AND NEATLY IN COLOUR. REFER TO ARCHITECTURAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND SUBMISSION PROCESS.

MECHANICAL LEGEND	
—	NEW
---	EXISTING
----	DEMOLITION
— — — — —	DOMESTIC COLD WATER (DCW)
—UG—UG—	DOMESTIC WATER UNDERGROUND (UG)
—D—D—	CONDENSATE DRAIN LINE
—R—R—	REFRIGERATION LINE
	FIRE EXTINGUISHER C/W WALL BRACKET (5LB OR 10LB AS INDICATED)
	HOSEBIBB (HB)
	FIXTURE TAG
	EQUIPMENT__ TYPE OF EQUIPMENT TAG NUMBER DESIGNATION
	ELBOW RISING
	ELBOW DROPPING
	BRANCH RISING FROM TEE
	BRANCH DROPPING FROM TEE
	SHUT-OFF BALL VALVE
	GLOBE VALVE
	CHECK VALVE
	REDUCER
	STRAINER
	UNION
	FLANGE
	PRESSURE GAUGE WITH PETCOCK

All dimensions to be checked and verified on site. Do not scale drawings. Any discrepancies are to be reported to the Consultant. All drawings remain the property of the Consultant. Only latest approved drawings to be used for construction.

Project :
City of Peterborough

BEAVERMEAD CAMPGROUND GATEHOUSE

Peterborough, ON K9L 1P8

Project North: True North:

No.	Revisions	Date
1	Issued for Final Review	07/27/21
2	Issued for Permit	07/28/21
3	Issued for Tender	08/05/21
4	Issued for Permit	08/11/21
5	Issued for Tender	08/18/21

Drawing Title :
DEMO & NEW MECHANICAL

Scale: As Noted

Date: August 2021

Job No.: 20-120

Drawn by: MRC

Drawing No.: **M201**



Consultant:

 **DURHAM ENERGY
SPECIALIST LIMITED**

CONSULTING ENGINEERS

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106-209 DUNDAS STREET EAST, WHITBY ONTARIO
info@durhamenergy.com / www.durhamenergy.com

DES JOB No.: 21-509 DRAWING SIZE: D

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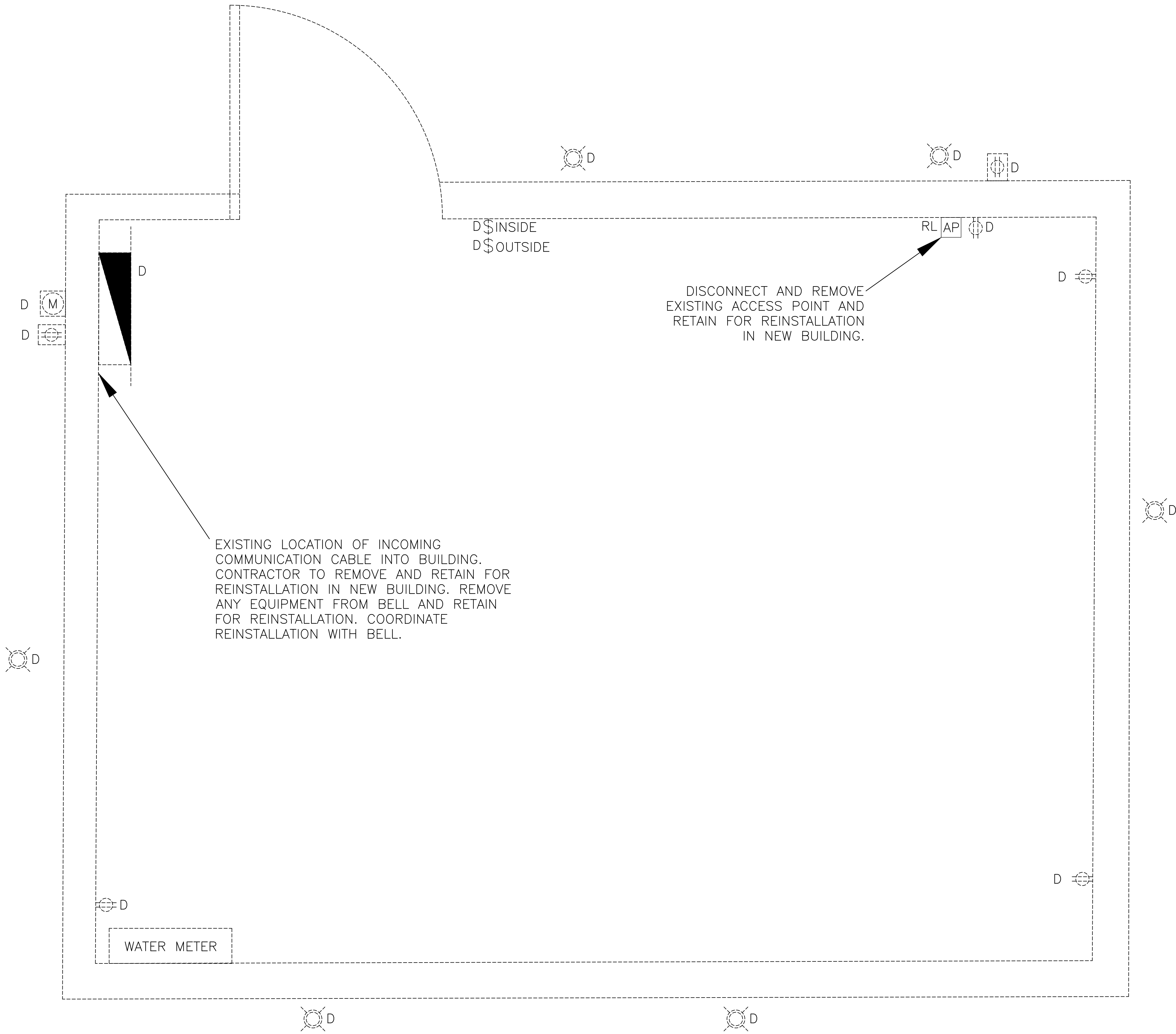
Project :
City of Peterborough

**BEAVERMEAD
CAMPGROUND
GATEHOUSE**

Peterborough,
ON K9L 1P8

[illegible]

Drawing Title :	
SITE PLAN	
Scale:	1:400
Date:	August 2021
Job No.:	20-120
Drawn by:	RJC
Drawing No.:	E101



DEMOLITION NOTES:

1. ENTIRE BUILDING TO BE DEMOLISHED. ALL DEVICES TO BE REMOVED AND DISPOSED OF PROPERLY UNLESS OTHERWISE NOTED.



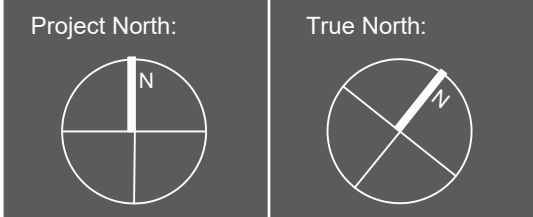
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DES JOB No.: 21-509 DRAWING SIZE: D

Stamp:

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Project :
City of Peterborough
**BEAVERMEAD
CAMPGROUND
GATEHOUSE**
Peterborough,
ON K9L 1P8



Issues		
No.	Revisions	Date
1	Issued for:	MO/DY/YR
2	Issued for Permit	07/29/21
3	Issued for Tender	08/05/21
4	Issued for Permit	08/11/21
5	Issued for Tender	08/18/21

Drawing Title :
**EXISTING GATE
HOUSE DEMO
POWER/LIGHTING
FLOOR PLAN**

Scale: 1:10
Date: August 2021
Job No.: 20-120
Drawn by: RJC
Drawing No.:

E102



Consultant:

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DES JOB No.: 21-509 DRAWING SIZE: D

Stamp:

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Project :
City of Peterborough

BEAVERMEAD CAMPGROUND GATEHOUSE

Peterborough,
ON K9L 1P8

Project North:

[illegible]

Drawing Title :

NEW POWER
GROUND FLOOR
PLAN

Scale: 1:5

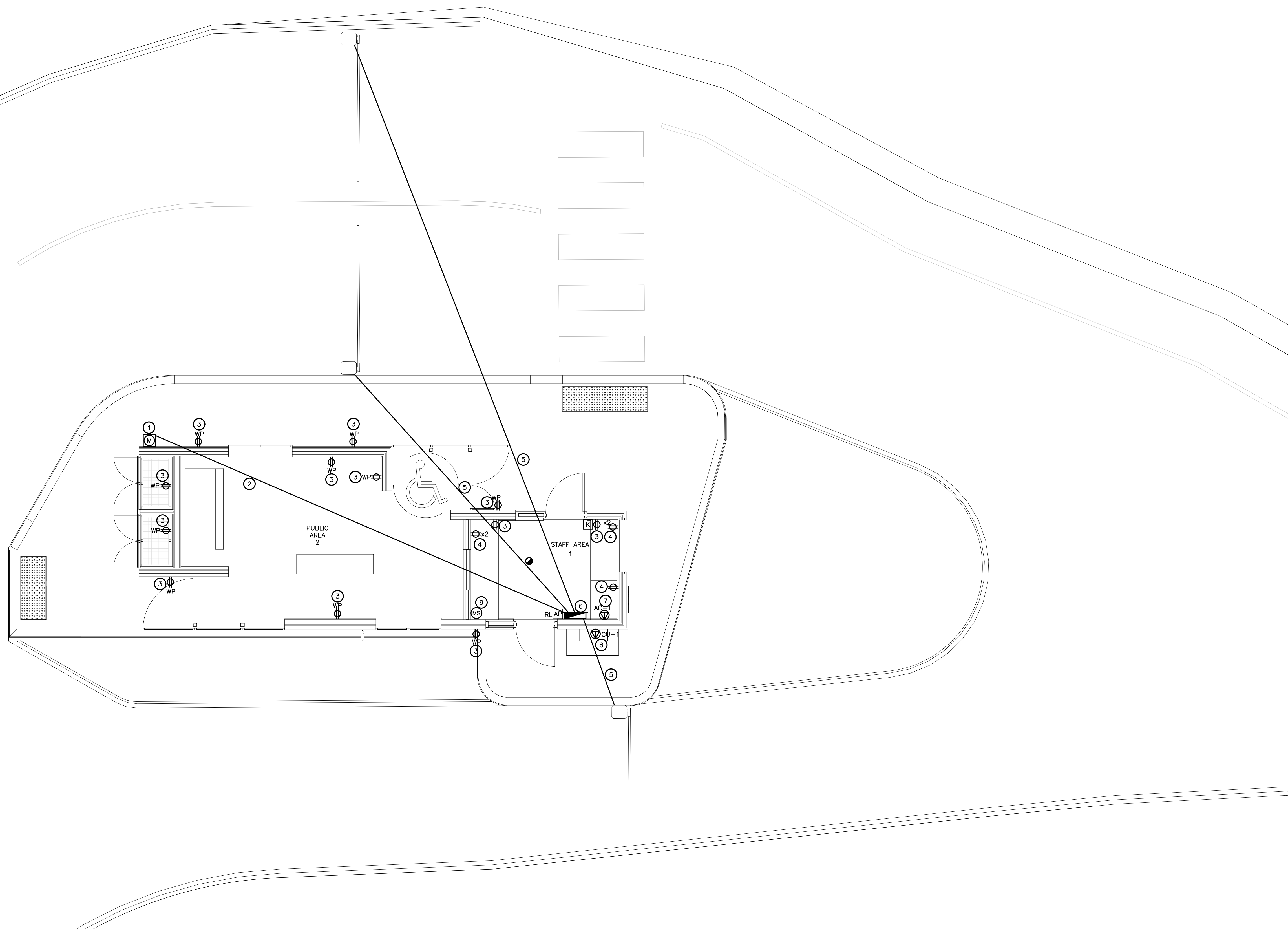
Date: August 2021

Job No.: 20-120

Drawn by: RJC

Drawing No.:

E201

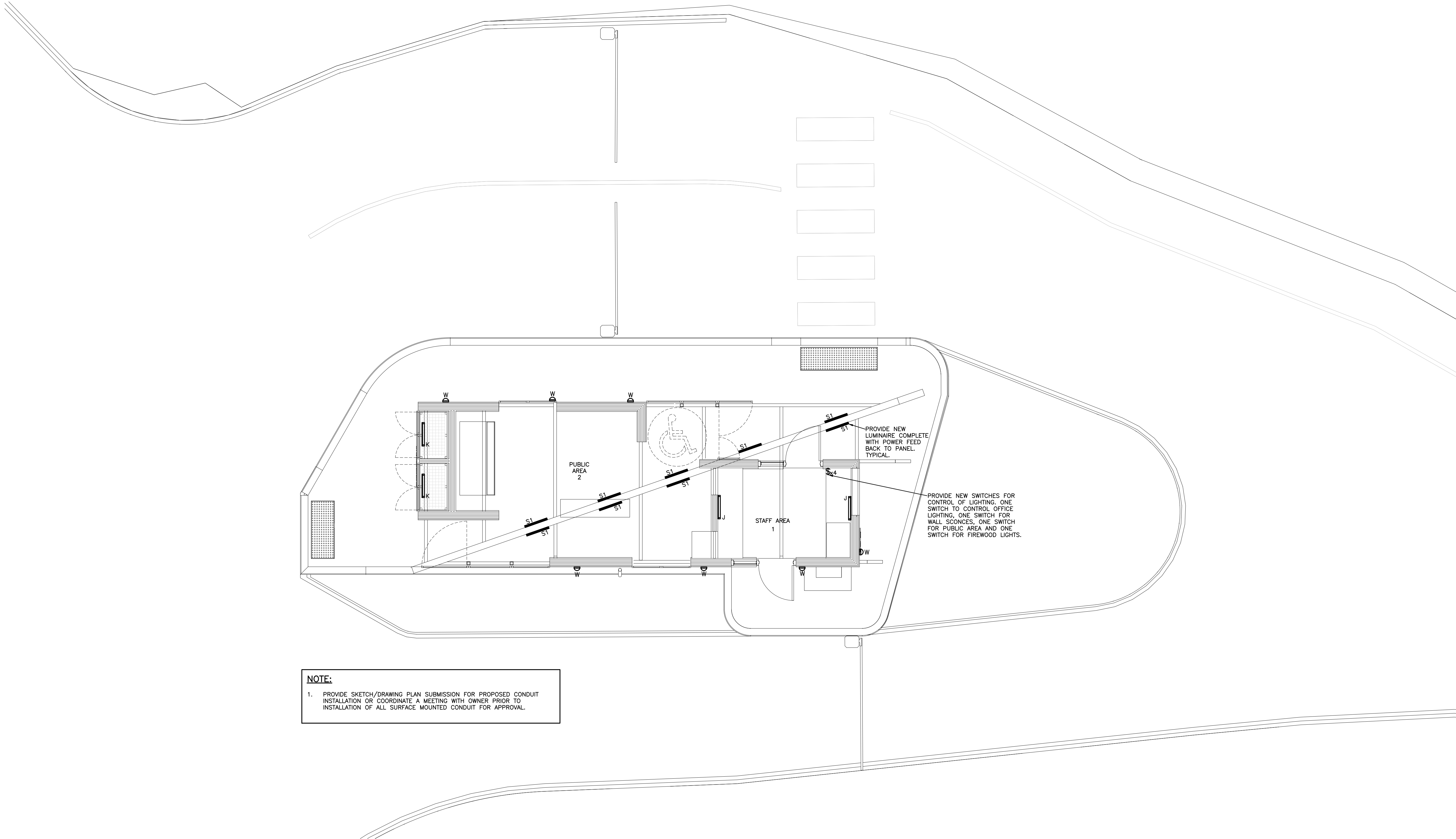


SCOPE OF WORK:

1. THE ELECTRICAL CONTRACTOR SHALL OBTAIN THE SERVICES OF TRENT SECURITY FOR SECURITY SYSTEM AND MONITORING (CONTACT RICK TURNBULL, 705-748-2001).
2. THE ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL THE FOLLOWING:
 1. FIRE/SECURITY SYSTEM INCLUDING PANEL, DEVICES, ACCESSORIES, CONDUIT AND WIRING.
 2. ALL NEW LOCKABLE BREAKERS FOR FIRE/SECURITY ALARM SYSTEM. PANT BREAKER RED FOR FIRE/SECURITY ALARM SYSTEM.
 3. POWER FOR THE FIRE/SECURITY ALARM PANEL AND ANY ACCESSORIES.
3. SUPPLY AND INSTALL FIRE/SECURITY PANEL, DEVICES AND ALL ACCESSORIES INCLUDING BUT NOT LIMITED TO:
 1. FIRE/SECURITY ALARM PANEL: DSC "POWERSERIES NEO" SECURITY CONTROL UNIT MODEL HS2016
 2. "HARDWAD: DSC "POWERSERIES NEO" HARDWIRED LCD KEYPAD WITH BUILT-IN POWER TROUBLESHOOTER MODEL HS2LCD
 3. CELLULAR ALARM COMMUNICATOR: DSC "POWERSERIES NEO" MODEL G2080
 4. BATTERY AND TRANSFORMER
 5. HEAT DETECTORS C/W WIRE GUARDS SUITABLE FOR COLD CONDITIONS (-20°F/-30°C)
 6. ALL FIRE ALARM WIRE AND HARDWARE INCLUDING TERMINATIONS.
4. OBTAIN THE SERVICES OF TRENT SECURITY FOR CONNECTION AND SETUP OF MONITORING WITH THE CITY OF PETERBOROUGH.
5. PERFORM ALL TESTING OF FIRE/SECURITY SYSTEM AND SUBMIT REPORT.

NEW WORKING NOTES:

1. PROVIDE NEW 200A METER BASE TO REPLACE EXISTING. REWORK EXISTING FEED TO NEW METER BASE.
2. PROVIDE NEW UNDERGROUND FEED FROM METER BASE TO NEW PANEL. PROVIDE 4#4/0 ALUMINUM CABLE IN 2-1/2" C.
3. PROVIDE NEW RECEPTACLE.
4. PROVIDE NEW RECEPTACLE. MOUNT RECEPTACLE ABOVE COUNTER. APPROXIMATELY 40" AFF. COORDINATE WITH GENERAL CONTRACTOR.
5. PROVIDE 1-1/2" C FROM FUTURE PEDESTALS TO NEW PANEL LOCATION FOR FUTURE WIRING.
6. PROVIDE NEW 200A SERVICE ENTRANCE RATED PANEL. REFER TO PANEL SCHEDULE. PROVIDE NEW GROUND PLATE COMPLETE WITH 3/0 COPPER GROUND CONNECTION.
7. PROVIDE POWER TO NEW AC UNIT. FED FROM CONDENSING UNIT MOUNTED OUTSIDE.
8. PROVIDE POWER TO NEW CONDENSING UNIT C/W WEATHERPROOF DISCONNECT. COORDINATE WITH MECHANICAL CONTRACTOR.
9. PROVIDE NEW MOTION SENSOR AND TIE INTO NEW SECURITY PANEL.



NOTE:

1. PROVIDE SKETCH/DRAWING PLAN SUBMISSION FOR PROPOSED CONDUIT INSTALLATION OR COORDINATE A MEETING WITH OWNER PRIOR TO INSTALLATION OF ALL SURFACE MOUNTED CONDUIT FOR APPROVAL.

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DES JOB No.: 21-509 DRAWING SIZE: D

Stamp:

All dimensions to be checked and verified on site.
Do not scale drawings.
Any discrepancies are to be reported to the Consultant.
All drawings remain the property of the Consultant.
Only latest approved drawings to be used for construction.

Project :

City of Peterborough

BEAVERMEAD
CAMPGROUND
GATEHOUSE

Peterborough,
ON K9L 1P8

Project North:

True North:

Issues		
No.	Revisions	Date
1	Issued for Final Review	07/27/21
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5	Issued for Tender	08/18/21

Drawing Title :

NEW LIGHTING
GROUND FLOOR
PLAN

Scale:

1:50

Date:

August 2021

Job No.:

20-120

Drawn by:

RJC

Drawing No.:

E301

NEW PANEL						
200A, 24 CIRCUIT, 1ø, 3W, 120/240 VOLT SURFACE MOUNTED BOLT-ON CIRCUIT BREAKER PANEL BOARD WITH COPPER BUS AND MAIN BREAKER. SERVICE ENTRANCE RATED.						
DESCRIPTION	BKR	CCT	S/N	CCT	BKR	DESCRIPTION
LIGHTS	15A	1	◆	2	15A	RECEPTACLE
HTR. RECEPTACLE	15A	3	◆	4	15A	RECEPTACLE
SPARE	15A	5	◆	6	15A	PHONE BOOTH
OUTSIDE POLE LIGHT	15A 2P	7	◆	8	15A	CORD
		9	◆	10	15A 2P	CU-1
RECEPTACLES	15A	11	◆	12		
RECEPTACLES	15A	13	◆	14	15A	SPARE
		15	◆	16		
		17	◆	18		
		19	◆	20		
		21	◆	22		
		23	◆	24		

GENERAL NOTES:

1. THOROUGHLY REVIEW AND COORDINATE WITH SITE CONDITIONS AND COMPLETE DRAWING SET PRIOR TO PRICING AND INSTALLATION.
2. OBTAIN, ARRANGE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
3. THE ELECTRICAL CONTRACTOR AND SUB-TRADES SHALL ATTEND ALL SITE MEETINGS UNLESS OTHERWISE APPROVED.
4. PROVIDE ELECTRONIC SHOP DRAWINGS IN PDF FORMAT TO CONSULTANT FOR REVIEW. ALL SHOP DRAWINGS MUST BE REVIEWED, STAMPED AND SIGNED BY THE ELECTRICAL CONTRACTOR PRIOR TO SUBMITTING TO THE CONSULTANT. REVIEW SHALL INCLUDE, BUT NOT LIMITED TO, VERIFYING VOLTAGE, RATING, DIMENSIONS AND CLEARANCES. SUBMIT SHOP DRAWINGS ELECTRONICALLY TO ARCHITECT/CONTRACT ADMINISTRATOR WITH COPIES TO OWNER AND INFO@DURHAMENERGY.COM.
5. INSTALL ALL WORK IN CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.
6. MAINTAIN RECORD DRAWINGS ON AN ON-GOING BASIS. DRAWINGS SHALL BE AVAILABLE FOR PERIODIC REVIEW BY THE CONSULTANT DURING CONSTRUCTION.
7. ALL WORK SHALL COMPLY WITH APPLICABLE CODES.
8. REMOVE ALL REDUNDANT EQUIPMENT AND MATERIALS FROM SITE AND DISPOSE OF IN AN APPROVED MANNER. REDUNDANT EQUIPMENT AND MATERIALS SHALL NOT BE ABANDONED IN PLACE.
9. ALL CUTTING, CORING AND PATCHING SHALL BE BY THIS CONTRACTOR. COORDINATE PATCHING WITH GENERAL CONTRACTOR.
10. MAINTAIN REQUIRED ACCESS AND CLEARANCE TO ALL EQUIPMENT AND SYSTEMS AS REQUIRED BY CODE AND AS PER MANUFACTURER'S REQUIREMENTS.
11. TAG ALL EQUIPMENT (INCLUDING MECHANICAL EQUIPMENT), EQUIPMENT DISCONNECTS/STARTERS AND PANELS WITH LAMACOID NAMEPLATES. PANEL NAMEPLATE SHALL STATE PANEL DESIGNATION, VOLTAGE, AMPERAGE AND SOURCE OF FEEDER. EQUIPMENT SHALL STATE PANEL AND CIRCUIT NUMBER. PROVIDE TYPED PANEL SCHEDULES IN ALL PANELS. CONFIRM WITH CONSULTANT IF UNCLEAR.
12. LABEL ALL RECEPTACLES AND JUNCTION BOXES WITH PANEL AND CIRCUIT NUMBER. USE BLACK MARKER ON CONCEALED JUNCTION BOXES AND CLEAR ADHESIVE LABELS WITH BLACK WRITING ON RECEPTACLES. PAINT ALL JUNCTION BOXES RED FOR FIRE ALARM.
13. THE CONTRACTOR SHALL ARRANGE FOR FIELD REVIEWS BY THE CONSULTANT PRIOR TO CEILINGS AND WALLS BEING CLOSED IN. WHERE THIS HAS NOT BEEN ARRANGED IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE CEILING TILES OR ACCESS DOORS FOR REVIEW AT THE DIRECTION OF THE CONSULTANT.
14. PERFORM TESTING OF ALL SYSTEMS AS REQUIRED BY CODE AND THE CONSULTANT.
15. ASSIST WITH START-UP AND COMMISSIONING OF ALL SYSTEMS AS REQUIRED.
16. INSTRUCT AND TRAIN THE OWNER ON PROPER OPERATION OF THE SYSTEM.
17. UPON COMPLETION OF THE PROJECT THE CONSULTANT WILL DO A FINAL REVIEW. UPON RECEIVING THE FINAL INSPECTION REPORT, THE CONTRACTOR MUST CORRECT AND SIGN BACK THE INSPECTION REPORT INDICATED ALL DEFICIENCIES ARE COMPLETED. A RE-INSPECTION WILL ONLY BE DONE ONCE THE CONSULTANT RECEIVES THIS IN WRITING. WHERE THE CONSULTANT PERFORMS THE RE-INSPECTION AND THE WORK IS NOT COMPLETE, THE CONTRACTOR IS RESPONSIBLE FOR REIMBURSING THE CONSULTANT FOR THE FIELD REVIEW. THE FEE FOR ADDITIONAL REVIEWS WILL BE AT THE CONSULTANT'S HOURLY RATES PLUS MILEAGE AND APPLICABLE TAXES TO BE PAID DIRECTLY TO THE CONSULTANT PRIOR TO PERFORMING THE NEXT FIELD REVIEW.
18. PROVIDE ONE (1) YEAR WARRANTY ON ALL MATERIAL AND LABOUR FROM THE DATE OF SUBSTANTIAL COMPLETION.
19. PROGRESS DRAWS SHALL INCLUDE MINIMUM \$1,000.00 FOR MANUALS AND AS-BUILT DRAWINGS. TOTAL AMOUNT SHALL REMAIN UNBILLED UNTIL MANUALS AND AS-BUILT DRAWINGS HAVE BEEN SUBMITTED AND APPROVED AND UNTIL ALL DES FIELD REVIEW REPORTS HAVE BEEN SIGNED AND RETURNED TO DES ALONG WITH PICTURES AS REQUESTED BY CONSULTANT.
20. PROVIDE ONE(1) COPY VIA EMAIL IN PDF FORMAT ORGANIZED INTO A CLICKABLE TABLE OF CONTENTS AND FOLDERS INCLUDING: WARRANTY LETTER, ESA CERTIFICATE OF CLEARANCE, AND AS BUILT DRAWINGS. AS BUILT DRAWINGS SHALL INCLUDE COMPLETE SET WITH ANY CHANGES MARKED CLEARLY AND NEATLY IN COLOUR. REFER TO ARCHITECTURAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND SUBMISSION PROCESS. SUBSTANTIAL COMPLETION WILL NOT BE AWARDED UNTIL THIS INFORMATION IS SUBMITTED TO THE CONSULTANT AND THE CONSULTANT HAS APPROVED.

EMT vs. LIQUIDTIGHT vs. FLEXIBLE CABLE





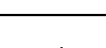
- EMT (ELECTRICAL METALLIC TUBING) MUST BE USED IN THE FOLLOWING INDOOR APPLICATIONS:
1. ALL EXPOSED AREAS (USE WIREMOLD ON EXPOSED WALLS IN FINISHED AREAS WHERE EXPOSED WIRING HAS BEEN APPROVED. EQUAL TO LEGRAND 700WH, COORDINATE COLOUR WITH OWNER PRIOR TO ORDERING).
 2. VERTICAL DROPS TO DEVICES IN NEW WALLS (I.E. SWITCHES RECEPTACLES, DATA/VOICE.)







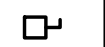


- LIQUIDTIGHT MUST BE USED IN THE FOLLOWING INDOOR AND OUTDOOR APPLICATIONS:
1. LAST 5' (1.5m) FOR FINAL CONNECTION TO INDOOR MECHANICAL EQUIPMENT. LIQUID TIGHT CONDUIT IN CEILING SPACE MUST BE PLENUM RATED.
 2. ALL OUTDOOR WIRING.






- FLEXIBLE CABLE IS ONLY ACCEPTABLE IN THE FOLLOWING INDOOR APPLICATIONS:
1. LAST 5' (1.5m) FOR FINAL CONNECTION TO LIGHTING AND SMALL EQUIPMENT/COMPONENTS IN CEILING SPACES. DAISY CHAIN OF LUMINAIRES IS NOT ALLOWED.
 2. LAST 5'(1.5m) FOR FINAL CONNECTION TO MECHANICAL EQUIPMENT LOCATED IN CEILING SPACE OR ON ROOF.
 3. FISHED DOWN IN EXISTING WALL(S). FLEXIBLE CABLE IN NOT PERMITTED IN NEW WALL(S).

ELECTRICAL NOTES:

1. PROVIDE GROUND ELECTRODE AS PER ESA REQUIREMENTS.
2. ALL WORK SHALL CONFORM TO ESA REQUIREMENTS.
3. BOND ALL METALLIC WATER, DRAIN AND GAS PIPING AS PER ESA REQUIREMENTS.
4. PROVIDE JUNCTION BOXES C/W COVERPLATES AS REQUIRED.
5. COORDINATE INSTALLATION WITH ALL OTHER TRADES.
6. ALL PANEL BOARDS SHALL BE COMPLETE WITH HINGED DOORS.
7. ALL DISTRIBUTION EQUIPMENT SHALL HAVE COPPER BUS UNLESS OTHERWISE NOTED. ALUMINUM BUS WILL NOT BE ACCEPTED.
8. REFER TO "EMT (ELECTRICAL METALLIC TUBING) vs. LIQUIDTIGHT vs. FLEXIBLE CABLE" FOR ACCEPTABLE USE OF EACH.
9. PROVIDE SKETCH/DRAWING PLAN SUBMISSION FOR PROPOSED CONDUIT INSTALLATION OR COORDINATE A MEETING WITH OWNER PRIOR TO INSTALLATION OF ALL SURFACE MOUNTED CONDUIT FOR APPROVAL.
10. EMT AND BOXES SHALL BE SIZED ACCORDING TO CODE REQUIREMENT BASED ON THE NUMBER OF CONDUCTORS.
11. FOR EMT AND/OR CONDUITS BENDS GREATER THAN OR EQUAL TO 270°, A PULL BOX MUST BE PROVIDED.
12. ALL EMT (ELECTRICAL METALLIC TUBING) SHALL BE FIRMLY FASTENED IN PLACE SO AS TO SUPPORT THE WEIGHT OF CONDUIT AND TO PREVENT ANY STRAIN OR STRESS AT TERMINATIONS ACCORDING TO ELECTRICAL CODE 12-1010.
13. MOUNTING HEIGHTS
 1. MOUNT NEW CONTROL DEVICES, INCLUDING BUT NOT LIMITED TO, OPERATORS, LIGHT SWITCHES OR SWITCH PLATE OCCUPANCY SENSORS NO LESS THAN 36" (900mm) A.F.F. TO BOTTOM OF BOX AND 43"(1100mm) MAXIMUM A.F.F TO TOP OF BOX. UNLESS OTHERWISE NOTED.
 2. MOUNT NEW RECEPTACLES 16" (400mm) A.F.F. UNLESS OTHERWISE NOTED.
 3. THERMOSTATS TO BE MOUNTED 47"(1200mm).
14. RECEPTACLES LOCATED WITHIN 5'(1.5m) OF A DAMP OR WET LOCATION SHALL BE GROUND FAULT CIRCUIT INTERRUPTER TYPE.
15. CONTRACTOR TO ALLOW FOR THE RELOCATION OF ANY RECEPTACLE OR DEVICE/EQUIPMENT CONNECTION WITHIN 10' OF LOCATION SHOWN AT NO EXTRA COST.
16. DEVICE COVER PLATES SHALL BE STAINLESS STEEL IN ALL AREAS.
17. BRANCH CIRCUIT BREAKER AMPERE INTERRUPTING CAPACITY TO MATCH BUS RATING. PROVIDE 10% SPARE FOR FUTURE.
18. MAXIMUM VOLTAGE DROP IN BRANCH CIRCUITS TO BE 3%. CONDUCTORS SHALL BE OVERSIZED TO SUIT VOLTAGE DROP WHERE APPLICABLE.
19. CONDUCTORS TO BE COPPER UNLESS OTHERWISE NOTED. CONDUCTORS IN RACEWAYS SHALL BE T75 NYLON (T90 ACCEPTABLE IF DERATED AS PER OESC). ALL CONDUCTORS SHALL BE MINIMUM #10AWG FOR EMERGENCY BATTERY CIRCUITS AND EXTERIOR LIGHTING. #14AWG FOR CONTROL WIRING AND MINIMUM #12AWG FOR ALL OTHER APPLICATIONS.
20. ALL WIRE SIZES INDICATED ON DRAWINGS ARE BASED ON A 75°C TERMINATION TEMPERATURE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE TERMINATION TEMPERATURE OF EACH DEVICE AND MODIFY THE WIRE SIZE TO SUIT OR NOTIFY ENGINEER FOR DIRECTION.
21. IDENTIFY EACH WIRE AND CABLE AT EVERY TERMINATION POINT. IDENTIFY ALL EMT AND/OR CONDUITS WITH "NEAT" COLOUR BANDS AT NO MORE THAN 25'(7.5m) INTERVALS AND ON BOTH SIDES OF WALLS & FLOOR.
22. NON-CURRENT CARRYING METAL PARTS FOR FIXED EQUIPMENT SHALL BE BONDED TO GROUND. INSTALL SEPARATE BONDING IN LIQUIDTIGHT CONDUITS.
23. DISCONNECT SWITCHES FOR HVAC EQUIPMENT MUST BE INSTALLED WITHIN 10' (3m).
24. MOTORS OTHER THAN AIR CONDITIONERS MUST HAVE DISCONNECT WITHIN SIGHT AND 30' (9m) OF THE MOTOR AND/OR STARTER.
25. CONTRACTOR IS RESPONSIBLE FOR LOAD BALANCING ALL DISTRIBUTION PANEL INSTALLATIONS. MEASURE PHASE CURRENT TO PANELBOARDS WITH NORMAL LOADS (LIGHTING) OPERATING AT TIME OF ACCEPTANCE. ADJUST BRANCH CIRCUIT CONNECTIONS AS REQUIRED TO OBTAIN BEST BALANCE OF CURRENT BETWEEN PHASES AND RECORD CHANGES. SUBMIT AT COMPLETION OF WORK. REPORT LISTING PHASE AND NEUTRAL CURRENTS ON PANELBOARDS, OPERATING UNDER NORMAL LOAD. STATE HOUR AND DATE ON WHICH EACH LOAD WAS MEASURED, AND VOLTAGE AT TIME OF TEST.
26. MEASURE PHASE VOLTAGES AT LOADS AND ADJUST TRANSFORMER TAPS TO WITHIN 2% OF RATED VOLTAGE EQUIPMENT.
27. FIRE STOP ALL EXISTING AND NEW CONDUIT THROUGH FIRE SEPARATIONS.
28. ARRANGE FOR ESA INSTALLATION PERMIT AND INSPECTION AND FORWARD A COPY OF THE ESA CERTIFICATE TO THE ENGINEER UPON ACCEPTANCE. ARRANGE AND PAY FOR OCCUPANCY PERMIT IF FINAL INSPECTION CANNOT BE SCHEDULED BY COMPLETION DATE SET FORTH IN TENDER DOCUMENTS.

LIGHT FIXTURE SCHEDULE			
TAG	DESCRIPTION	MAKE / MODEL	ALTERNATE
	WALL MOUNTED 3' VANDAL RESISTANT LUMINAIRE, 20W, 2000 LUMENS, 3500K, 120V	LUMINAIRE LED VPF8-3FT-MIN10-2DRV-20W-35K-120-OP-BLK	SUBMIT FOR APPROVAL
	CEILING MOUNTED 2' VANDAL RESISTANT LUMINAIRE, WET LOCATION RATED, 15W, 1300 LUMENS, 3000K, 120V	LUMINAIRE LED VPF8-2FT-MIN10-2DRV-15W-30K-120-OP-BLK	
	WALL MOUNTED 2' VANDAL RESISTANT LUMINAIRE, WET LOCATION RATED, 15W, 1300 LUMENS, 3000K, 120V	LUMINAIRE LED VPF8-2FT-MIN10-2DRV-15W-30K-120-OP-BLK	
	WALL MOUNTED WALL SCONCE, FULL CUT-OFF, WET LOCATION RATED, 747 LUMENS, 10W, 3000K, 120V	LUMINAIRE LED AEL-12IN-MIN10-2DRV-10W-30K-120-DP-BKH	COOPER LEVITON LEGRAND
	LIGHT SWITCH - '3' DENOTES 3-WAY	HUBBELL 1200 SERIES (120V)	

POWER LEGEND		
TAG	DESCRIPTION	MAKE/MODEL
	15A 120V 1PH GROUNDED DUPLEX RECEPTACLE C/W STAINLESS STEEL COVER PLATE	HUBBELL BR15WHI OR EQUAL
	20A 120V 1PH GROUNDED DUPLEX RECEPTACLE IN WEATHERPROOF ENCLOSURE	HUBBELL GFTR20W OR EQUAL C/W HUBBELL RW57300
	CEILING MOUNTED RECEPTACLE C/W 15A 120V 1PH GROUNDED DUPLEX RECEPTACLE	HUBBELL BR15WHI OR EQUAL
	FLOOR MOUNTED SHALLOW RECTANGULAR STAMPED STEEL WALL BOX C/W 15A 120V 1PH GROUNDED DUPLEX RECEPTACLE	HUBBELL B242 SERIES WITH S3825 COVER OR EQUAL
	120V 1PH GROUNDED DIRECT EQUIPMENT CONNECTION	
	208V 1PH GROUNDED DIRECT EQUIPMENT CONNECTION	
	DISCONNECT SWITCH 'WP' DENOTES WEATHERPROOF	
	200A SERVICE ENTRANCE RATED PANEL	
	METER BASE	

COMMUNICATIONS LEGEND		
TAG	DESCRIPTION	MAKE/MODEL
	ACCESS POINT	
	MOTION SENSOR	
	CARD READER	
	KEYPAD	
	ELECTRIC STRIKE BY GENERAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE WIRING.	



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Drawing Title :
LEGENDS AND NOTES

Scale: NTS

Date: August 2021

Job No.: 20-120

Drawn by: RJC

Drawing No.: **E801**