QANP OPERATIONS GARAGE

RESOLUTE, NU

Item	2015 National Building Code Data Matrix Parts 3 & 9							NBC Reference							
											References are [A] for Division				
1	Projec	t Descrip	tion:			■ Ne	€W		Part 1	1	☐ Part 3			■ Part 9	
			garage/vehic	le		□ Ac	ddition							1.1.2 [A]	
	storage	building w/ o	office	Change of	Use	☐ Al	teration								
2	Major	Occupan	cy(s)	F-3 - Low	-Hazard Ir	ndustrial								9.10.2.1	
3	Buildi	ng Area (r	n²) Ex	isting	0.0	New	254.2 m ²	2	Total	254.2 m²				1.4.1.2[A]	
4		Area (m²	-	isting	0.0	New	312.9 m ²	2	Total	312.9 m²				1.4.1.2[A]	
5		er of Stor		ove grade	1		Below	grade	0					3.2.2.83	
6	Heigh	t of Buildi	ng (m) : 6	5.34 m (Gr	ade to Mid	lpoint of	Roof Slop	e)						3.2.1.1 & 9	.10.4
7	Numb	er of Stree	ets/Fire Fig	hter Ac	cess:	1		-						9.10.20	
8	Buildi	ng Classi	fication	Group F D	ivision 3									9.10.2.1.	
9	Sprink	der Syste	m Propose	d			entire bui	ilding						9.10.8.2	
		-	-				basemen	t only							
							in lieu of	roof ratin	ng						
							not requi	red							
10	Stand	pipe requ	ired				Yes	No						3.2.5.8	
11	Fire A	larm requ	ired				Yes	■ No				3.2.4.1			
12	Water	Service/S	Supply is A	dequate)		■ Yes □ No					3.2.5.7			
13	High Building					☐ Yes ■ No					3.2.6				
14	Permi	tted Cons	truction	☐ Com	bustible		Non-com	bustible		Both				9.10.8.11.	& 3.2.2.87.
	Actua	l Constru	ction	☐ Com	bustible		Non-com	bustible		Both					
15	Mezza	nine(s) A	rea m ²	Open Mez	zanine (<	40%): 58	3.7 m²							3.2.1.1.(3)-	-(8)
16	Occup	ant load	based on	m²/	person		design of	building						3.1.17	
	1st Floo	or		Occupar	псу	F-3	Loa	nd 10) рег	rsons					
17	Barrie	r-free Des	sign	☐ Yes	■ No)								3.8.2.1.(1)	(c)
18	Hazar	dous Sub	stances	☐ Yes	■ No)								3.3.1.2(1)	· ·
19	Requ	uired	Horizont	al Assemi	olies		Liste	d Design	No.					9.10.8.11.	& 3.2.2.87.
	F	ire	FR	R (Hours)			or De	scription	(SG-2)						
	Resis	tance	Floors (SF)	Not R	equired										
	Ra	ting	Roof	Not R	equired										
	(FF	(FRR) FRR of Supporting		rting		Liste	ed design	No. Or							
		Members		S		Description (SG-2)									
			Wall (FF)	Not Re	equired					1					
			Roof	Not R	equired										
20	Spatia	I Separat	ion - Const	truction	of Exter	ior Wa	lls							3.2.3	
	Wall	Area of		L.D.	L/H or	Permi	tted	Propos		FRR	Listed	Comb.	1	Comb	Non-comb
		EBF		(m)	H/L	Max. 9		% of		(Hours)	Design or	or non		tr. Nonc.	Constr
		(m ²)				Oper	nings	Openir	ngs		Description	cumb.	Cla	dding	
	North	95.7 m²		8	N/A	56		2		0.75	- Metal	Х			
	South	95.7 m²		14.2	N/A	100)	11.7		N/A	Siding	х			
	East	75.4 m²		20.2	N/A	100)	34.1		N/A		Х			
	West	75.4 m²		7	N/A	61.	75	0		0.75		Х			

Item	2010 National Build	ling Code Data Matrix Parts 3 & 9	NBC Reference
21	Basement Fire Compartmen	nt Chase Rating Max 600	3.2.1.1.(3)-(8)
22	Maximum Travel Distance:		
	Not Required		3.4.2.5f
23	Crawlspace considered to I	oe a basement (Service Access) 🗌 Yes 🔳 N	No 3.2.2.9
24	FRR Requirements:		3.3.1.21
	Mechanical/Electric Room - 1 Hour	3.3.1.22	
25	Fire Protection for Closures	s :	
	FRR of Fire Separation	Min FRR of Closure	3.1.8.4
	1 Hr	45 Min	
26	Provision for Fire Fighting		3.2.5.1

	ARCHITECTURAL SHEET LIST
Sheet Number	Sheet Name
A000	COVER & CODE MATRIX
A101	SITE PLAN
A102	GROUND FLOOR PLAN
A103	MEZZANINE FLOOR PLAN
A104	GROUND FLOOR PARTITIAL PLAN
A105	REFLECTED CEILING PLANS
A200	BUILDING ELEVATIONS
A201	BUILDING ELEVATIONS
A300	BUILDING SECTION
A301	BUILDING SECTION
A302	BUILDING SECTION
A303	STAIR DETAILS
A400	SECTION DETAILS
A401 SECTION DETAILS	
A402	SECTION DETAILS
A403	SECTION DETAILS
A404	PLAN SECTION DETAILS
A405	PLAN SECTION DETAILS
A406	MISC
A500	INTERIOR ELEVATIONS
A501	INTERIOR ELEVATIONS
A502	INTERIOR ELEVATIONS
A503	MILLWORK DETAIL-KITCHEN
A600	DOOR & WINDOW SCHEDULE
A601	FINISH SCHEDULE

CIVIL SHEET LIST				
Sheet Number	Sheet Name			
C100	NOTES			
C101	EXISTING GRADING PLAN			
C102	NEW GRADING PLAN			

STRUCTURAL SHEET LIST				
Sheet Number	Sheet Name			
S100	NOTES			
S101	PILE LAYOUT			
S102	FOUNDATION			
S103	MAIN FLOOR PLAN			
S104	S104 MEZZANINE & STAIRWAY PLAN			
S105	FOUNDATION DETAILS			
S106	FOUNDATION DETAILS			
S107 FRAMING DETAILS				
S108	S108 STAIRWAY FRAMING DETAILS			
S109	STAIRWAY FRAMING DETAILS			

MECHANICAL SHEET LIST				
Sheet Number	Sheet Name			
M100	SITE PLAN			
M101	PLUMBING DWV			
M102	PLUMBING DCW/DHW			
M103	HEATING			
M104	VENTILATION			
M105	PLUMBING SCHEMATIC			
M106	M106 HEATING SCHEMATIC			
M107	M107 VENTILATION SCHEMATIC			
M108	VENTILATION SCHEMATIC			

ELI	ELECTRICAL SHEET LIST				
Sheet Number	Sheet Name				
E001	ELECTRICAL SITE PLAN				
E100	ELECTRICAL SPECIFICATIONS AND INSTRUCTIONS				
E200	LEGEND AND SCHEMATIC				
E300	FLOOR PLAN LIGHTING LAYOUT				
E301	FLOOR PLAN ELECTRICAL LAYOUT				
E302	MEZZANINE FLOOR PLAN ELECTRICAL LAYOUT				
E400	ELECTRICAL PANEL SCHEDULES				
E500	MECHANICAL LOAD SCHEDULE				
E600	LUMINAIRE SCHEDULE				



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QANP OPERATIONS GARAGE

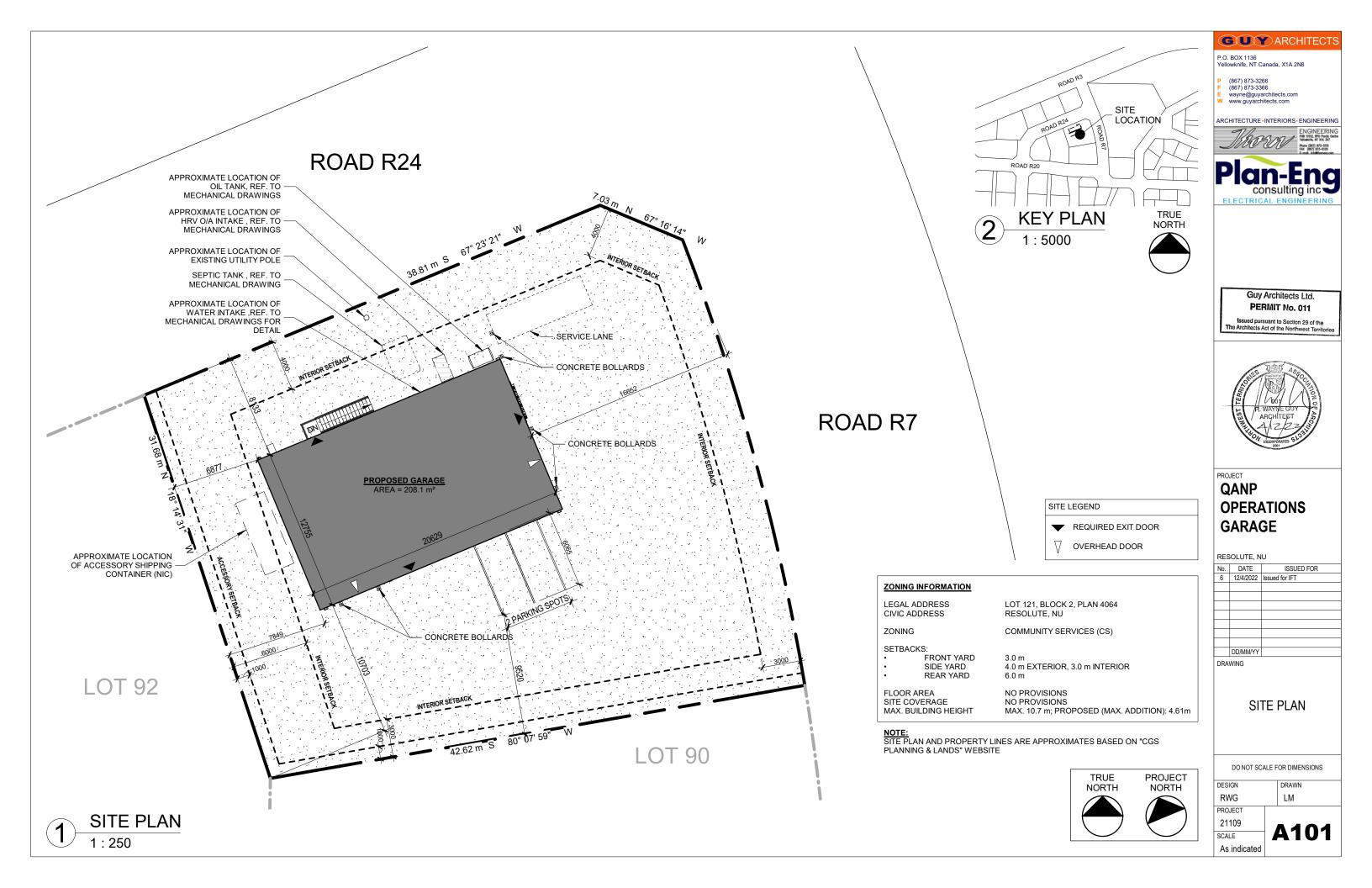
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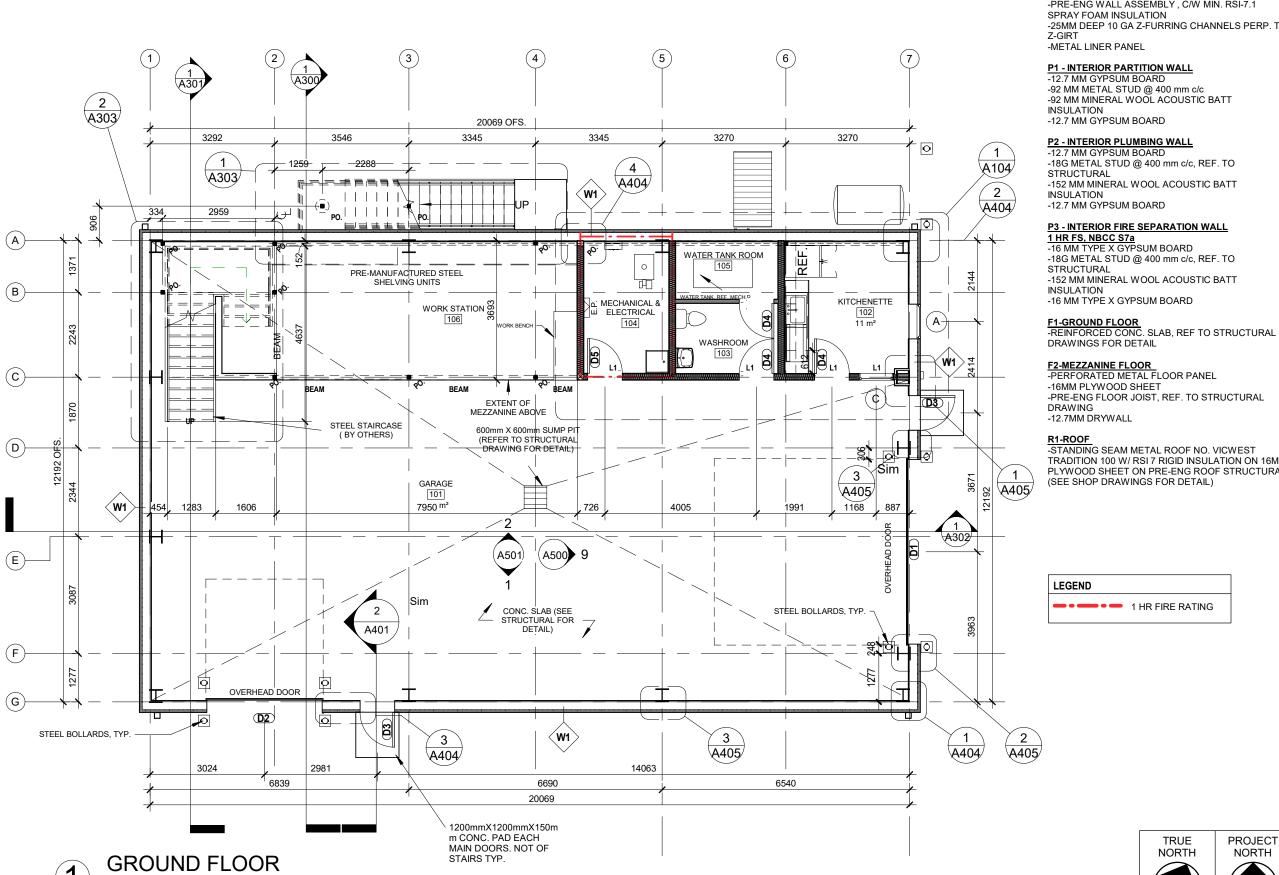
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COVER & CODE MATRIX

DO NOT SCALE FOR DIMENSIONS

DESIGN	DRAWN
RWG	LM
PRO IFCT	





1:100

WALL ASSEMBLIES

W1 -VERTICAL 12mm CORRUGATED SIDING 226A -PRE-ENG WALL ASSEMBLY , C/W MIN. RSI-7.1 -25MM DEEP 10 GA Z-FURRING CHANNELS PERP. TO

TRADITION 100 W/ RSI 7 RIGID INSULATION ON 16MM PROJECT PLYWOOD SHEET ON PRE-ENG ROOF STRUCTURAL

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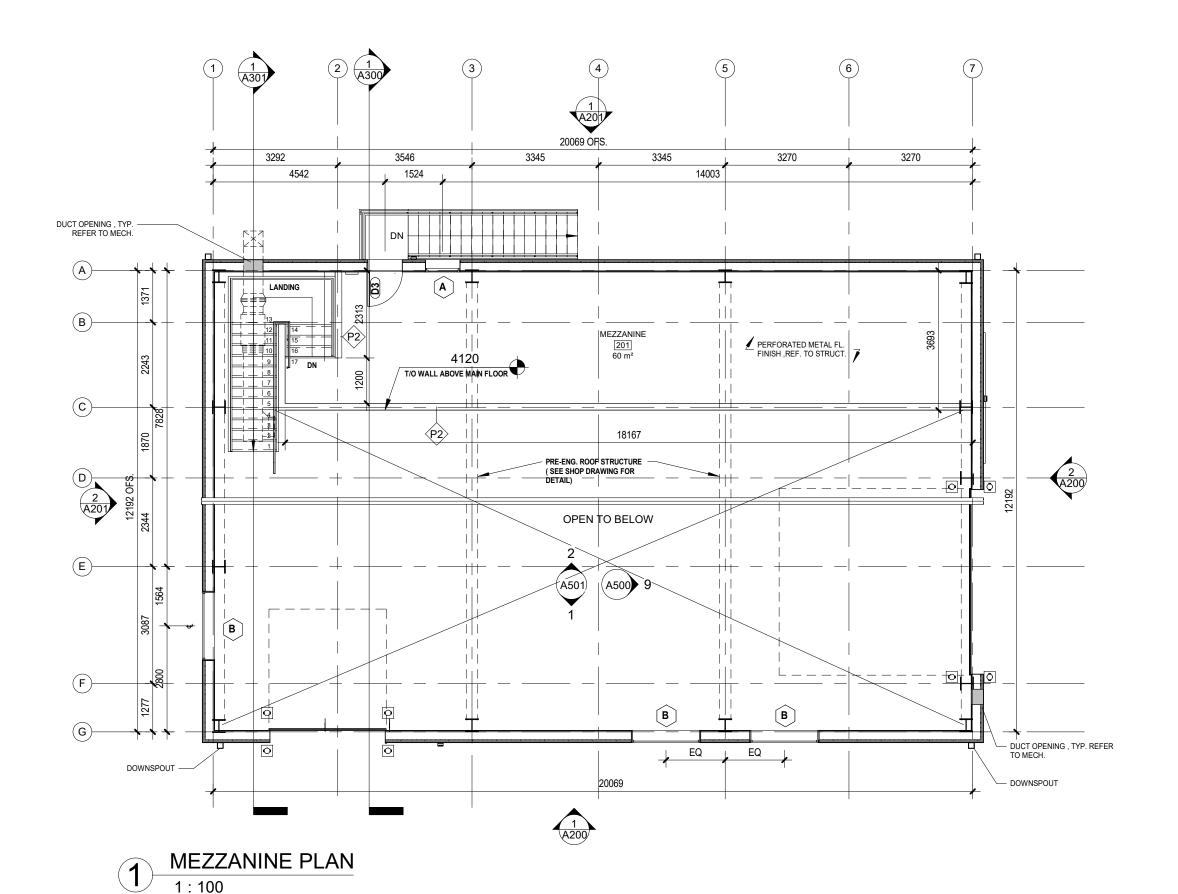
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GROUND FLOOR PLAN

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	PROJECT	
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A102 SCALE



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DRAWING

PROJECT

NORTH

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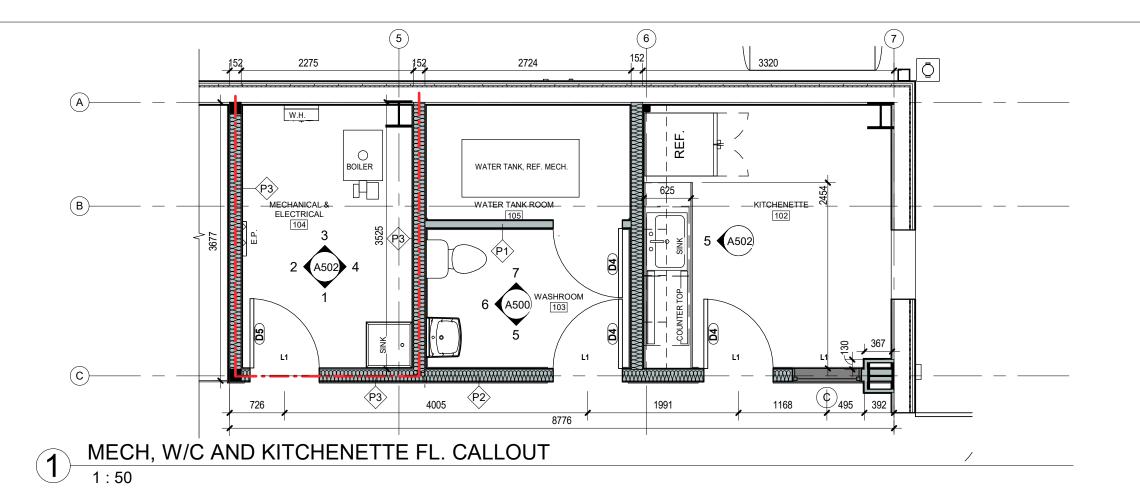
NORTH

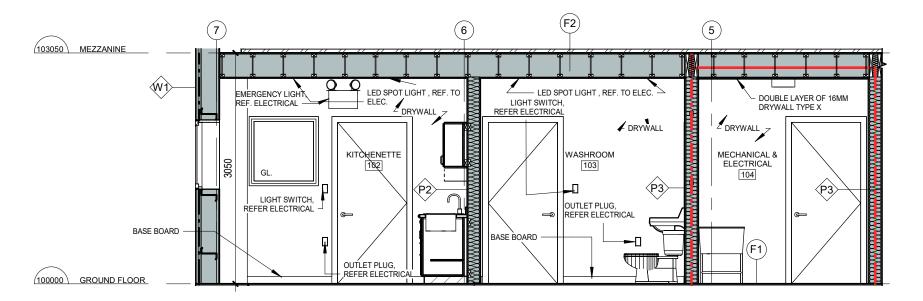
MEZZANINE FLOOR PLAN

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	RWG		LM
	PROJECT		
1			

M/YA 21109 A103 SCALE 1:100





BUILDING SECTION DETAIL

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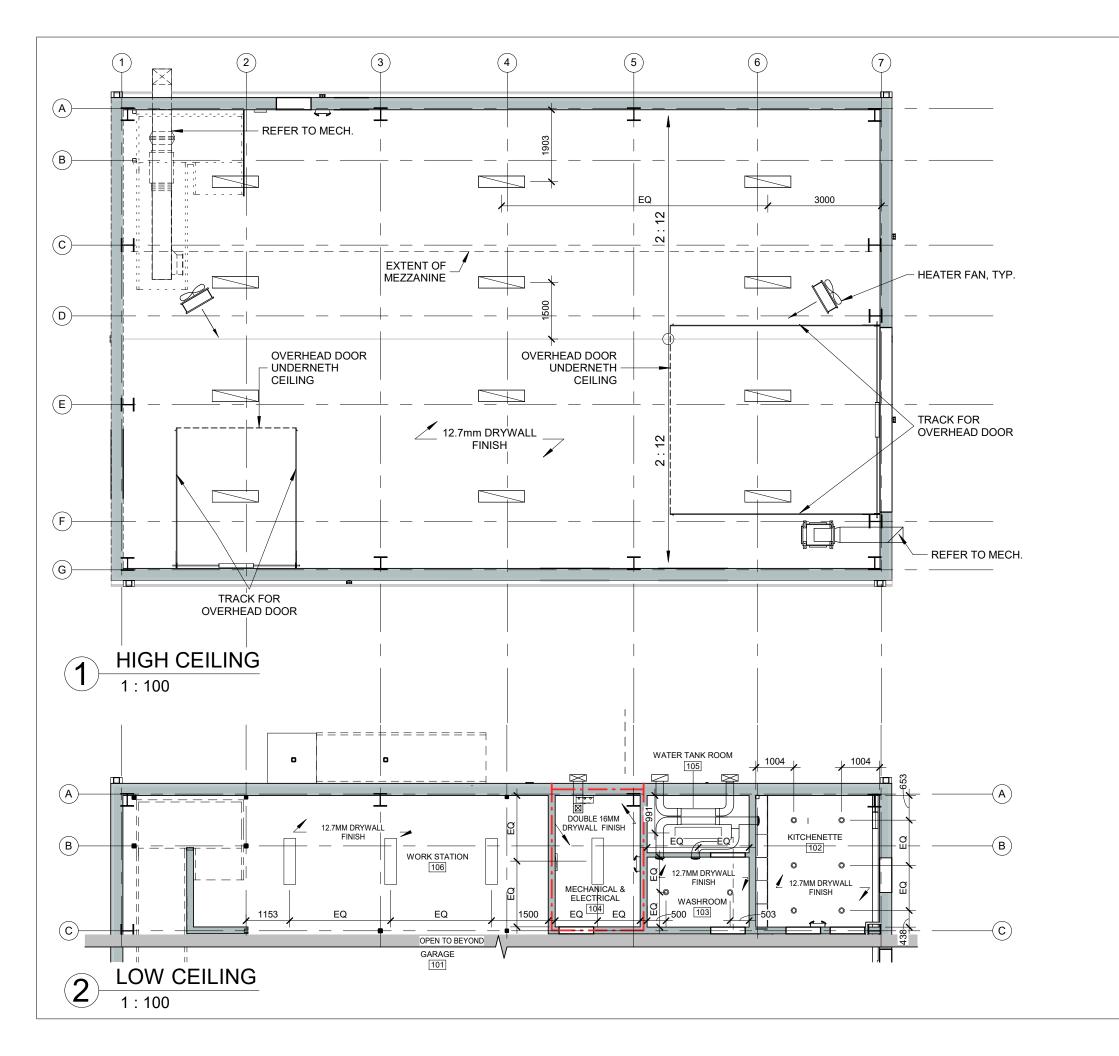
GROUND FLOOR PARTITIAL PLAN

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DESIGN DRAWN RWG YΑ

PROJECT 21109 SCALE

1:50



CEILING LEGEND

305x1219 mm CHAIN HUNG LED STRIP LIGHT, REF. ELEC.



305x1219 mm SURFACE MOUNTED LED STRIP LIGHT, REF. ELEC.

100 mm Ø RECESSED LED POT LIGHT, REF. ELEC.

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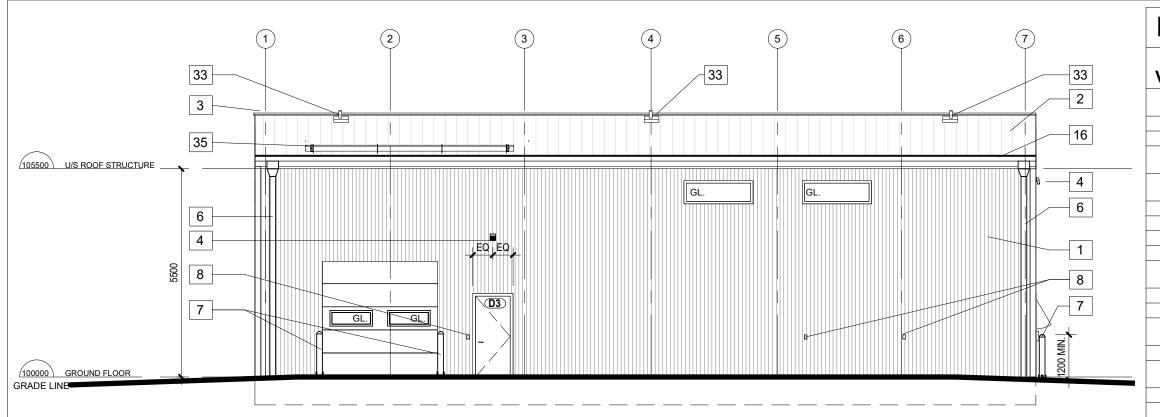
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REFLECTED CEILING **PLANS**

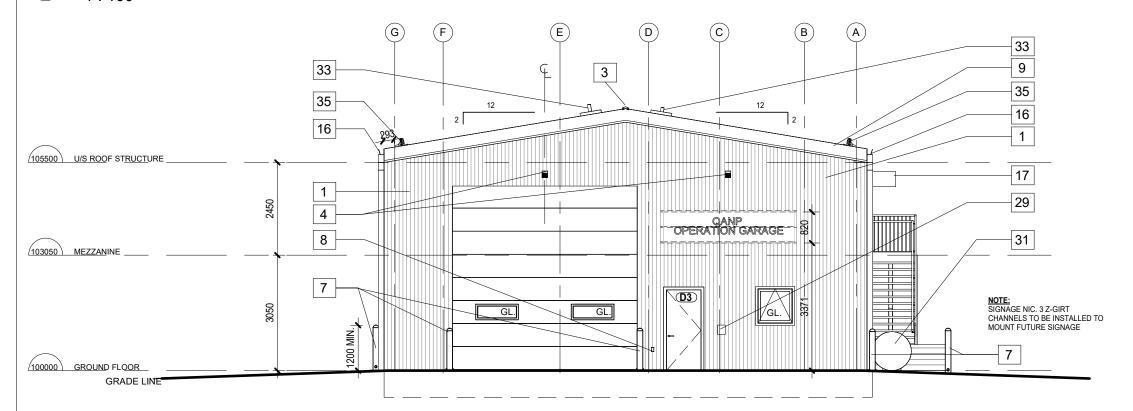
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RWG	LM	
PROJECT		

21109 SCALE 1:100



SOUTH ELEVATION 1:100



K Va **ROOF ANCHOR POST** 34 METAL LINEAR PANEL 35 SNOW GUARD

(EY	NOTE LEGEND	P.O. BOX 1136 Yellowknife, NT Canada, X1A 2N8
(ey alue	DESCRIPTION	P (867) 873-3266 F (867) 873-3366 E wayne@guyarchitects.com W www.guyarchitects.com
1	VERT. 12mm CORRUGATED METAL SIDING 226A	ARCHITECTURE *INTERIORS * ENGINEERING
2	STEEL ROOFING	ENGINEERING POB 11012, 890 Pop 11012, 890 Pop da Centre Veloskeite, NI XIA 337
3	VENTED RIDGE	Phone (867) 873-5151 FAX (867) 873-6105
4	EXT. LED BUILDING LIGHT, REF. ELEC.	Plan-Fna
5	EXHAUST AIR WALLHOOD, REF. MECH.	consulting inc
6	STEEL DOWNSPOUT	ELECTRICAL ENGINEERING
7	PAINTED STEEL BOLLARD	
8	EXT. OUTLET, REF. ELEC.	
9	ALUMINUM FASCIA	
10	INTAKE & EXHAUST AIR WALLHOODS, REF. MECH.	
11	COMBUSTION AIR INLET, REF. MECH.	
12	DECORATIVE WOOD PANEL	Guy Architects Ltd.
13	WATER TANK VENT/OVERFLOW, REF. MECH.	PERMIT No. 011
14	WATER TANK FILL POINT, REF. MECH.	Issued pursuant to Section 29 of the The Architects Act of the Northwest Territories
15	EXT. STEEL EXIT STAIR, LANDING, & GUARD	
16	ALUMINIUM GUTTER	0 0 0
17	INTAKE AIR WALLHOOD, REF. MECH.	Sold Sold Sold Sold Sold Sold Sold Sold
18	STEEL COLUMN (REF. TO STRUCT.)	HE LOS OF THE SECOND OF THE SE
19	STEEL STAIRCASE	H 1001 1
20	PRE-ENG. STEEL COLUMN	ARCHITECT A
21	BEAM (SEE STRUCTURAL DRAWING FOR DETAIL)	12/2/3331
22	OVERHEAD DOOR HARDWARE	NOORPORATED SLO
23	INTERIOR METAL PANEL	
24	BOILER, REF. TO MECH.	PROJECT
25	WATER HEATER, REF. TO MECH	QANP
26	ELECTRIC PANEL, REF. TO ELEC.	
27	EMERGENCY LIGHT, REF. TO ELEC.	OPERATIONS
28	SINK, REF. TO MECH	GARAGE
29	LOCK BOX	
30	HRV O/A INTAKE, REF. TO MECH.	
31	OIL TANK, REF. TO MECH.	RESOLUTE, NU
32	CEILING LIGHT, REF. TO ELEC.	No. DATE ISSUED FOR 6 12/4/2022 Issued for IFT
22	DOOF ANCHOD DOOT	0 12/7/2022 133000 101 11 1

BUILDING **ELEVATIONS**

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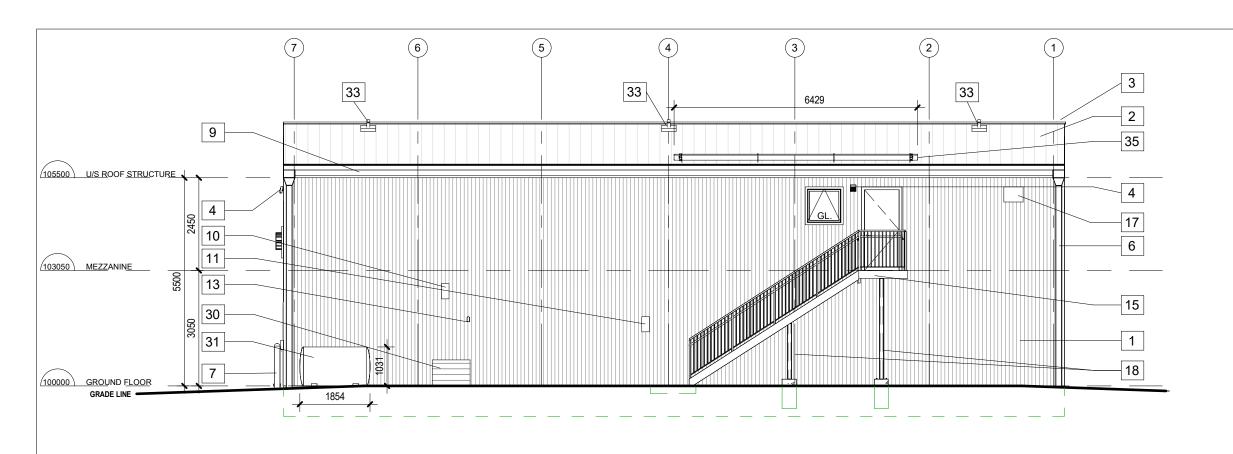
GUY ARCHITECTS

DO NOT SCALE FOR DIMENSIONS

DESIGN DRAWN RWG YΑ PROJECT 21109 **A200** SCALE 1:100

EAST ELEVATION

1:100



NOTE: SEE SHEET A200 FOR KEYNOTE VALUE DESCRIPTION



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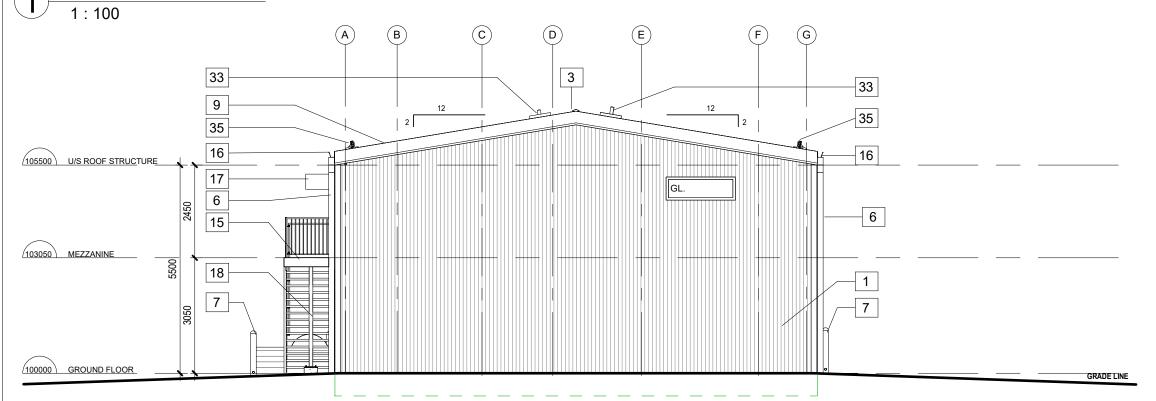
BUILDING ELEVATIONS

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PROJECT		
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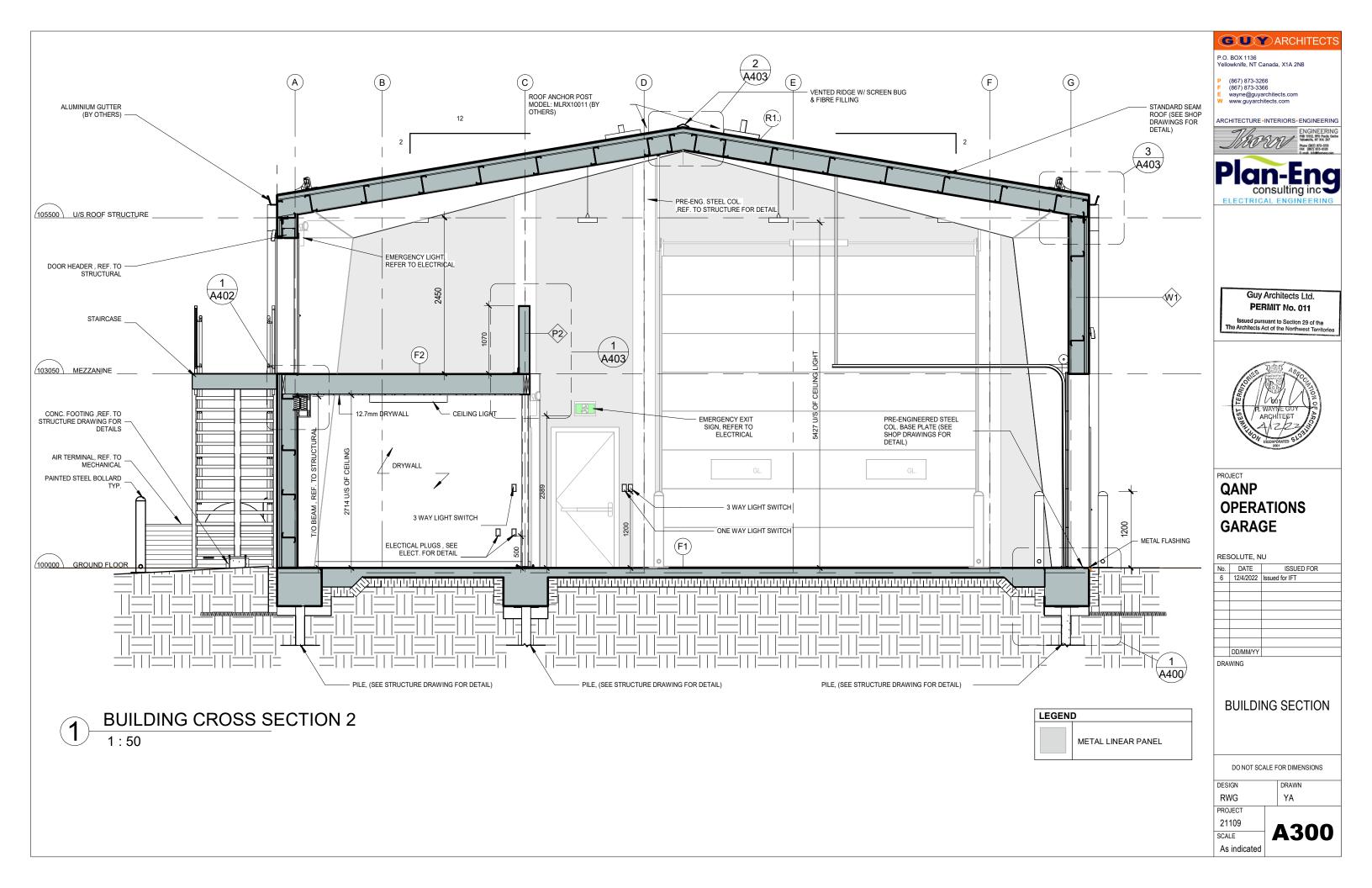
21109 SCALE 1:100

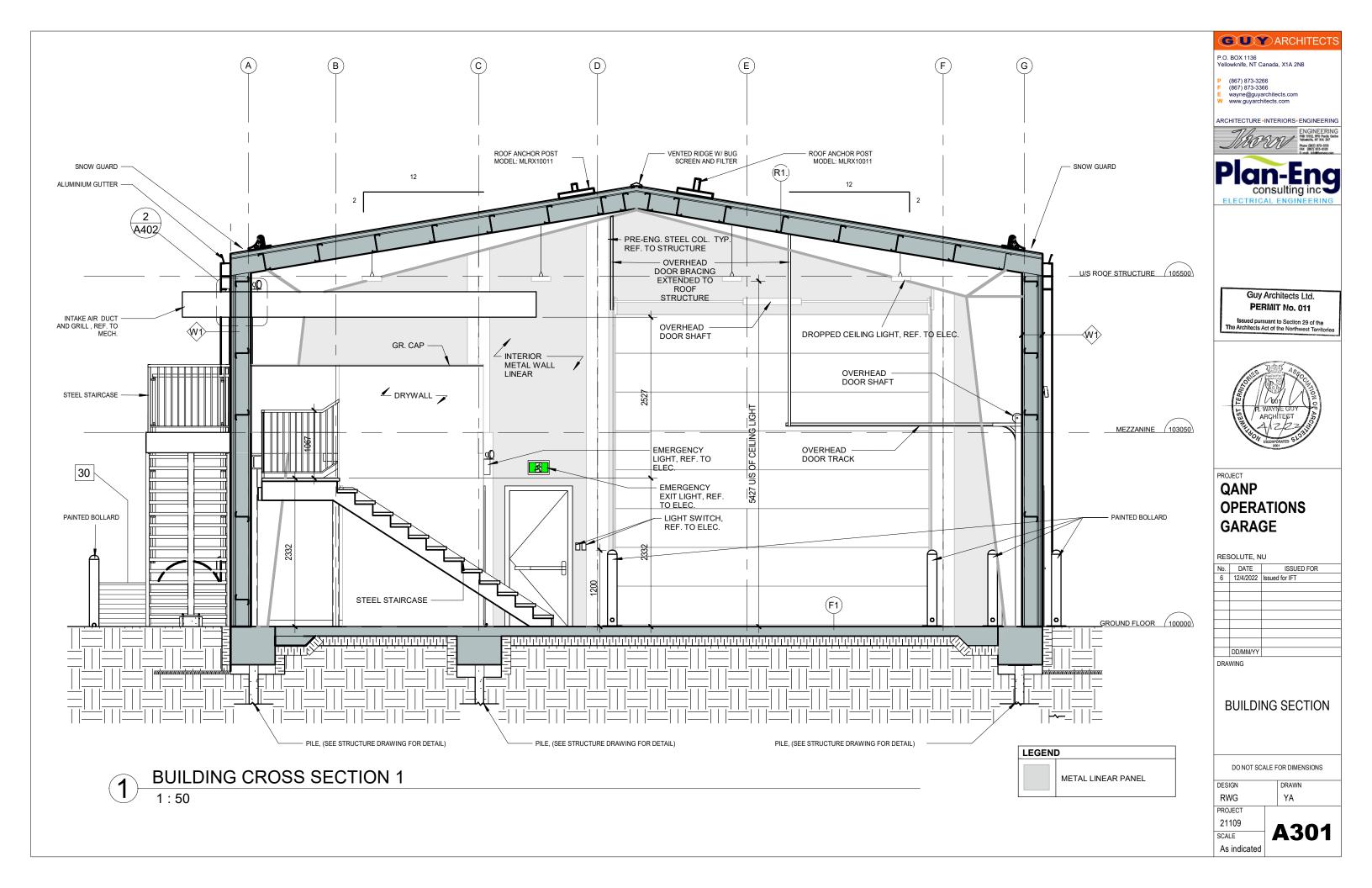
NORTH ELEVATION

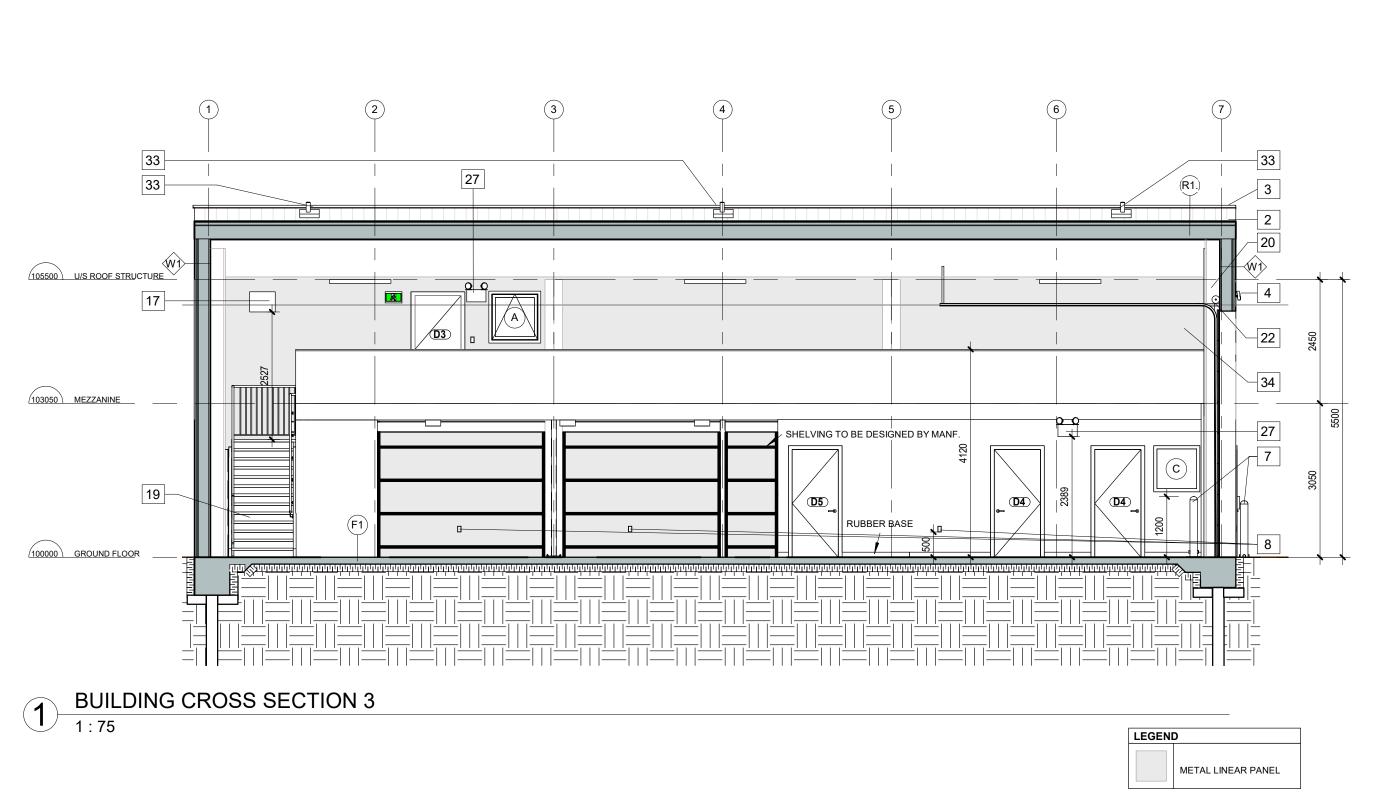


WEST ELEVATION

1:100







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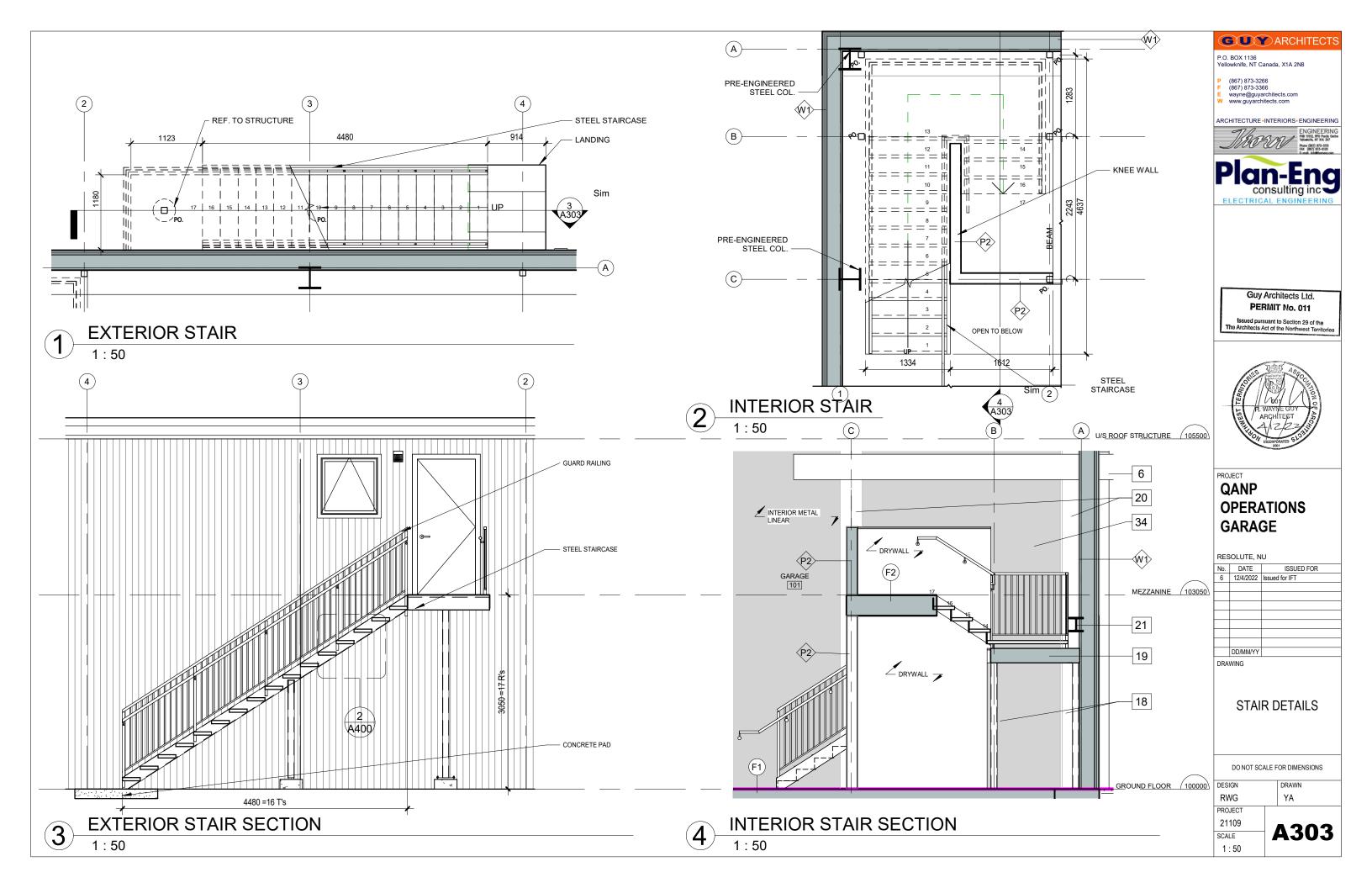
BUILDING SECTION

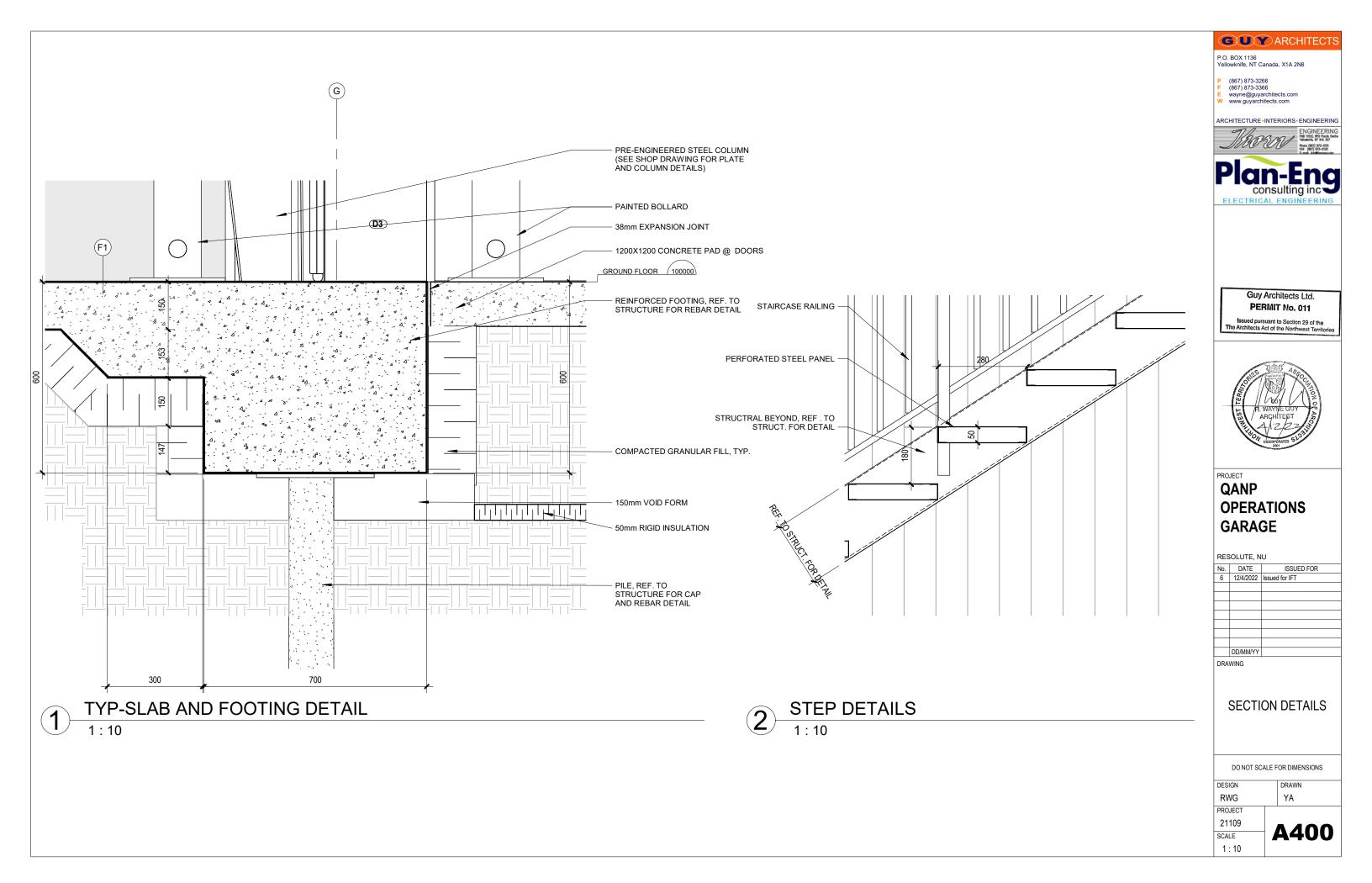
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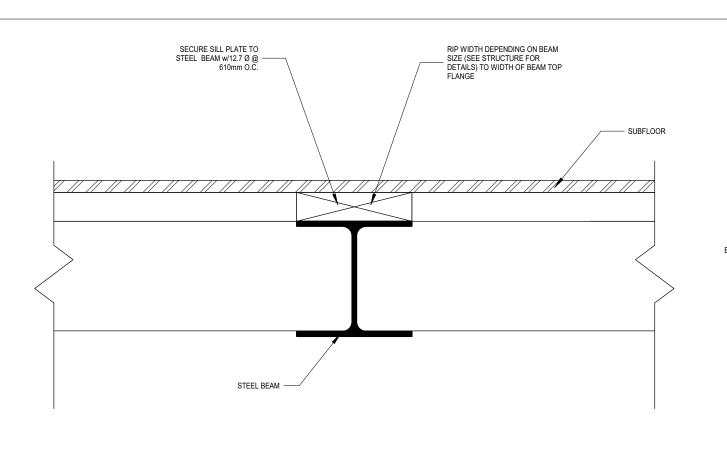
DESIGN DRAWN RWG YΑ PROJECT

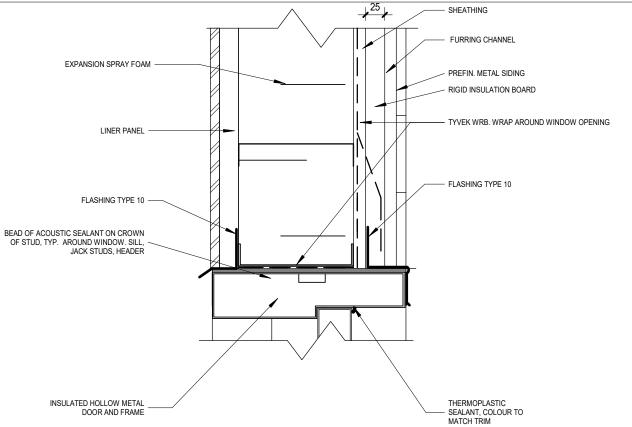
21109 SCALE

As indicated



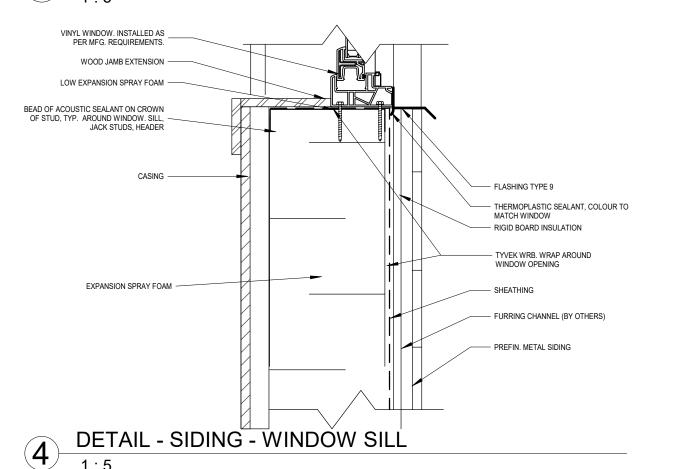






DETAIL - FLUSH BEAM - PLYWOOD SHEATHING FURRING CHANNEL RIGID INSULATION BOARD WOOD FURRING PREFIN. METAL SIDING METAL LINEAR -- TYVEK WRB. WRAP AROUND WINDOW OPENING - FLASHING TYPE 3 Z-GIRT (SEE SHOP DRAWING FOR DETAILS) CASING BEAD OF ACOUSTIC SEALANT ON CROWN OF STUD, TYP. AROUND WINDOW. SILL, JACK STUDS, HEADER LOW EXPANSION SPRAY FOAM WOOD JAMB EXTENSION THERMOPLASTIC - SEALANT, COLOUR TO MATCH TRIM VINYL WINDOW INSTALLED AS

DETAIL - SIDING - DOOR HEAD



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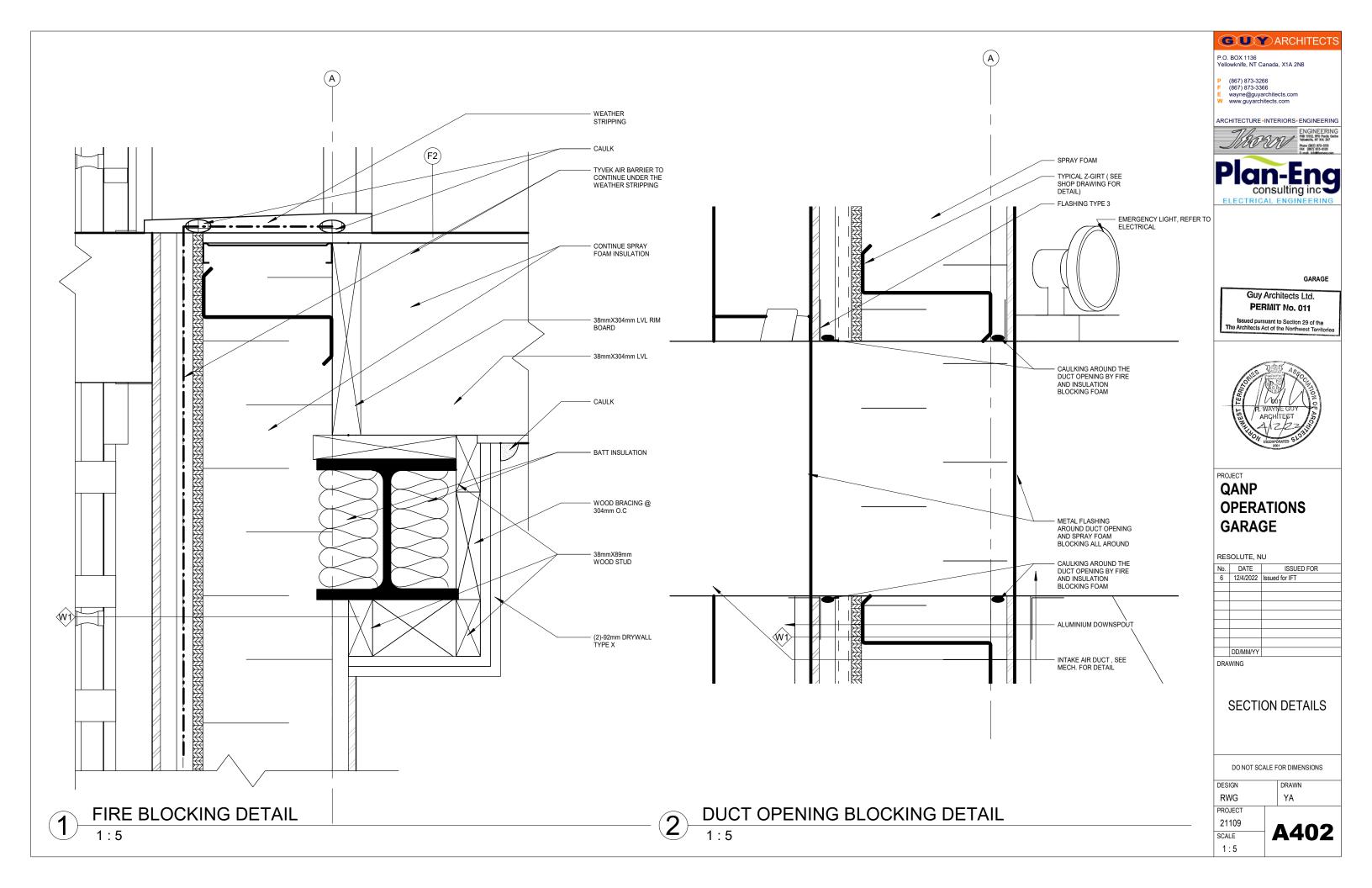
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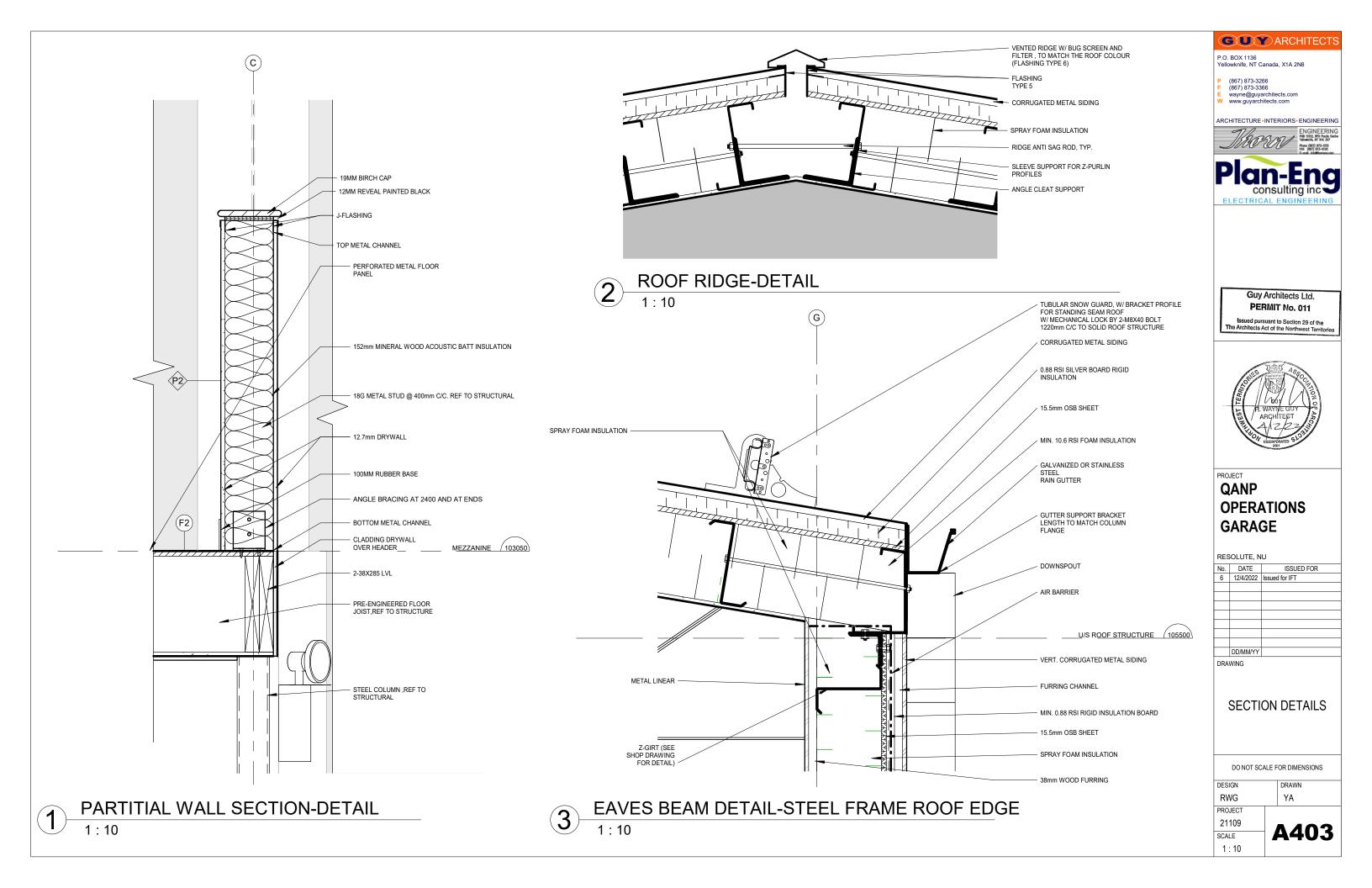
SECTION DETAILS

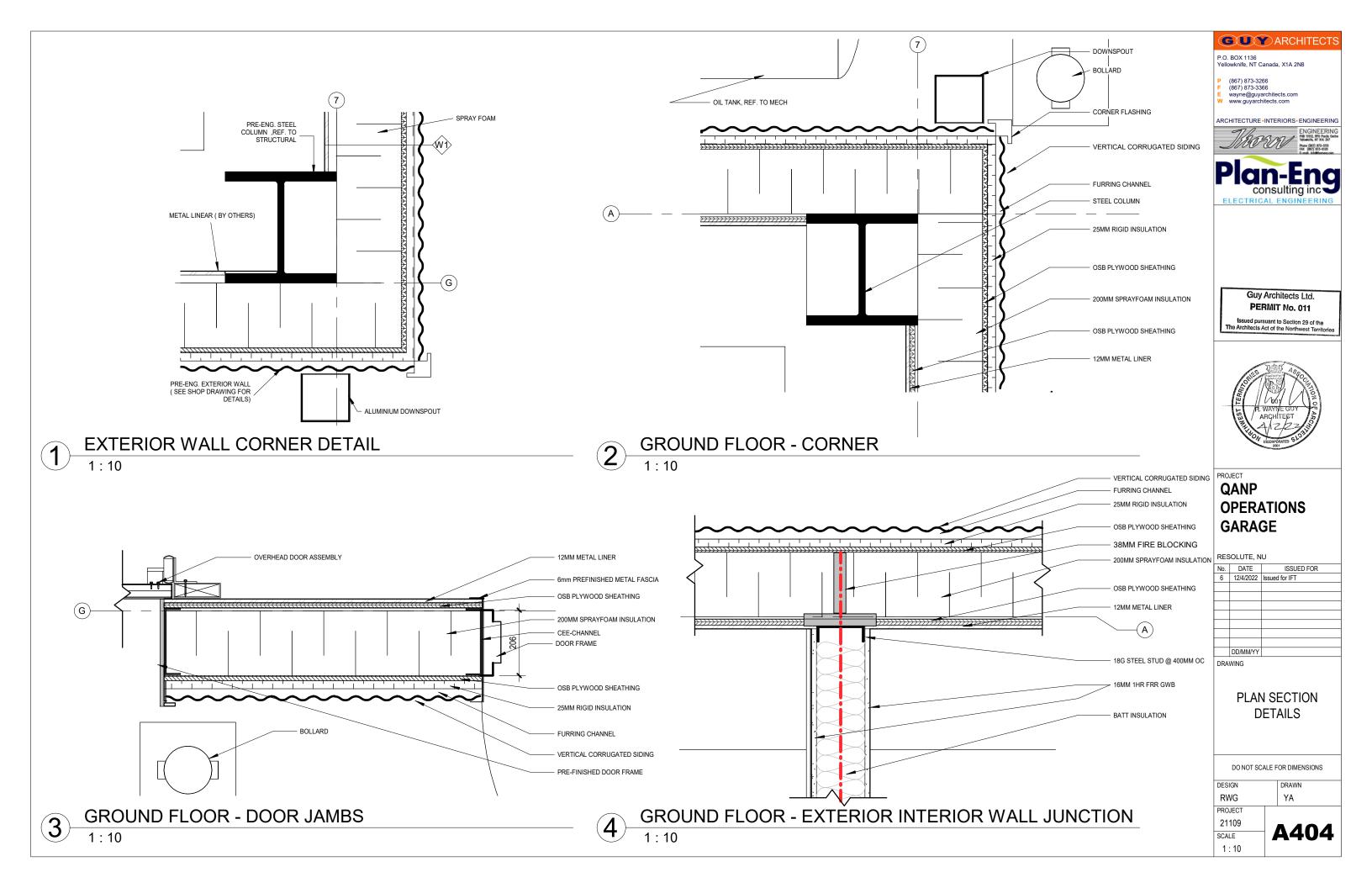
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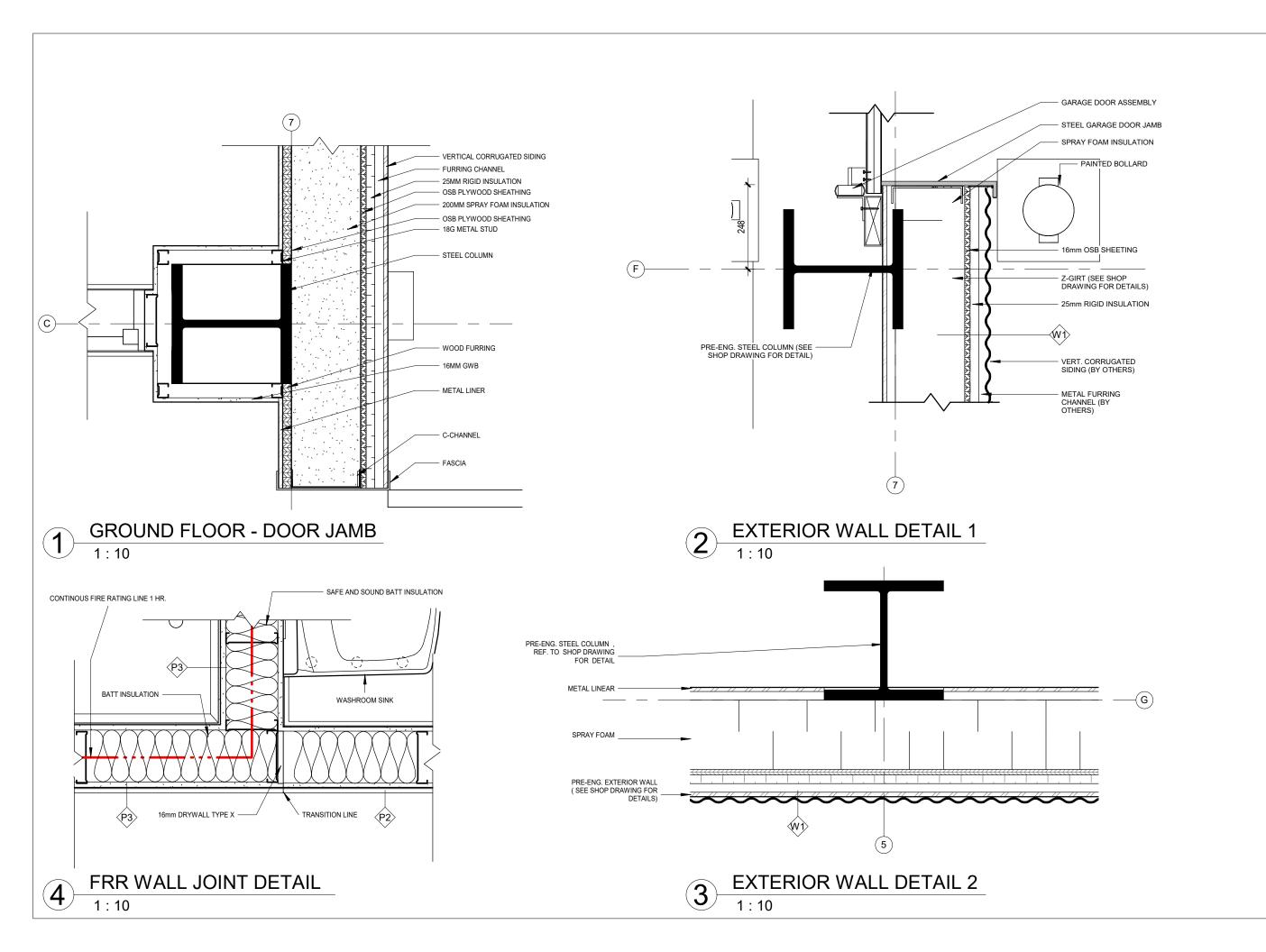
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DETAIL - SIDING - WINDOW HEAD









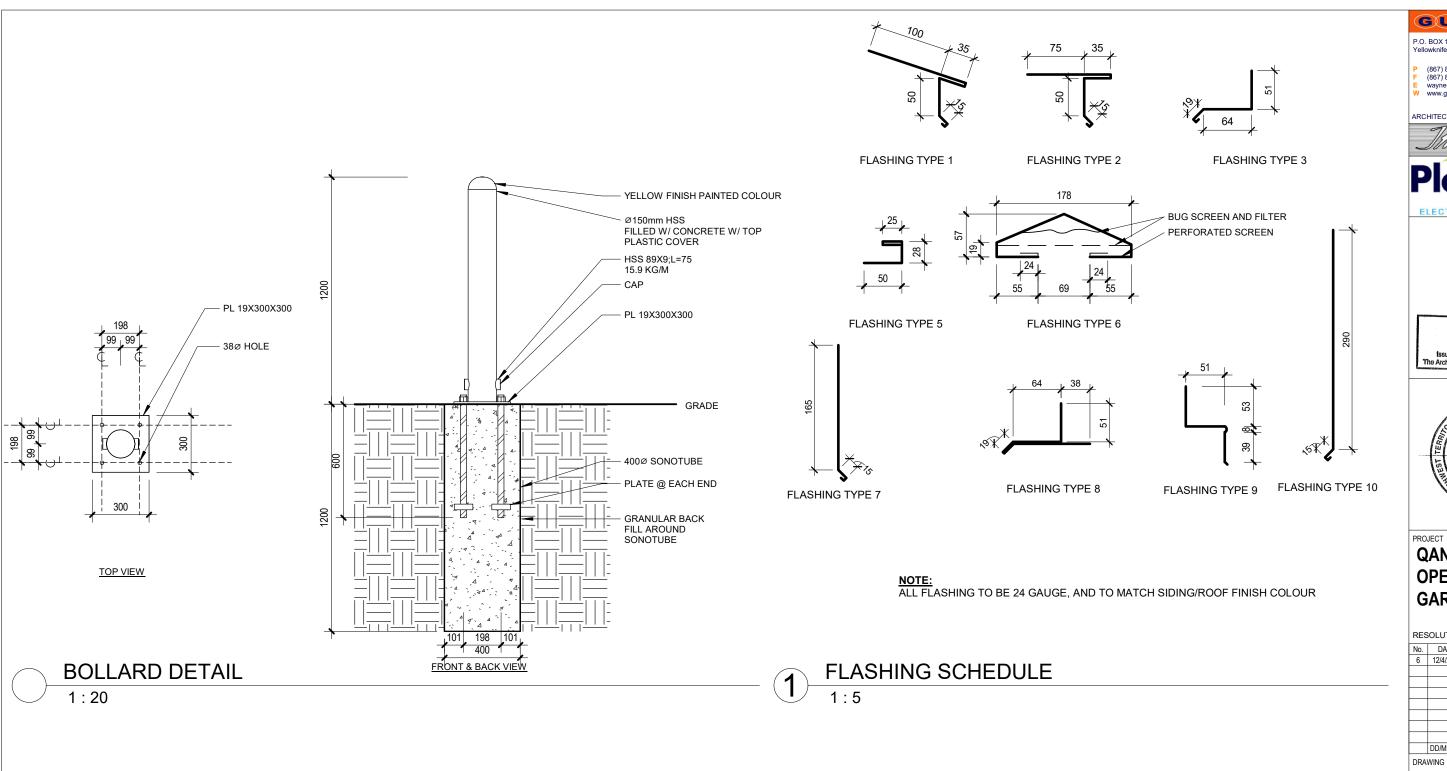
GUY ARCHITECTS P.O. BOX 1136 Yellowknife, NT Canada, X1A 2N8 (867) 873-3266 (867) 873-3366 wayne@guyarchitects.com www.guyarchitects.com ARCHITECTURE INTERIORS ENGINEERING Guy Architects Ltd. PERMIT No. 011 Issued pursuant to Section 29 of the The Architects Act of the Northwest Territor PROJECT **QANP OPERATIONS GARAGE** RESOLUTE, NU No. DATE ISSUED FOR 6 12/4/2022 Issued for IFT DD/MM/YY DRAWING PLAN SECTION **DETAILS** DO NOT SCALE FOR DIMENSIONS DESIGN DRAWN YΑ RWG

PROJECT

21109

1:10

SCALE



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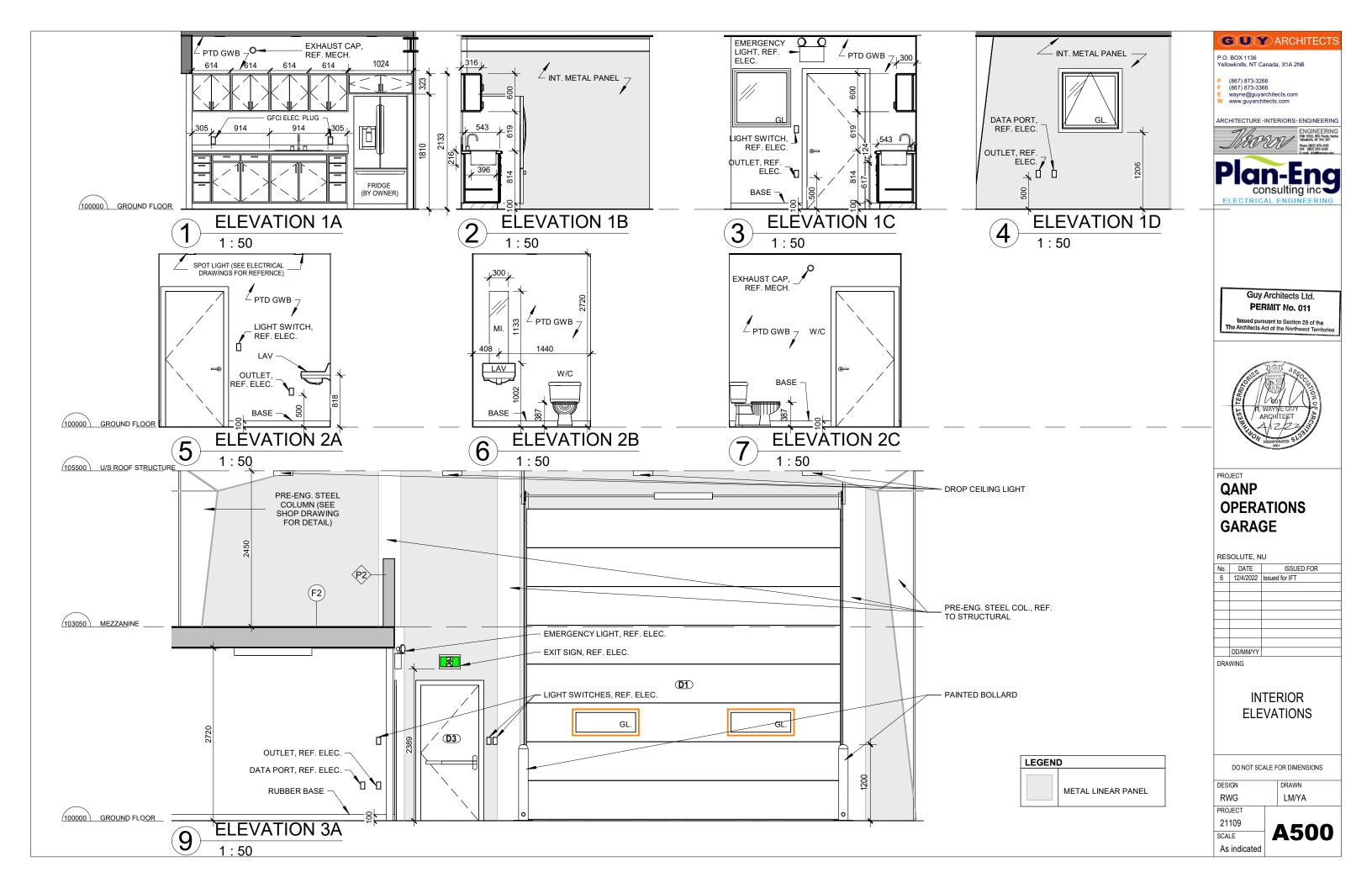
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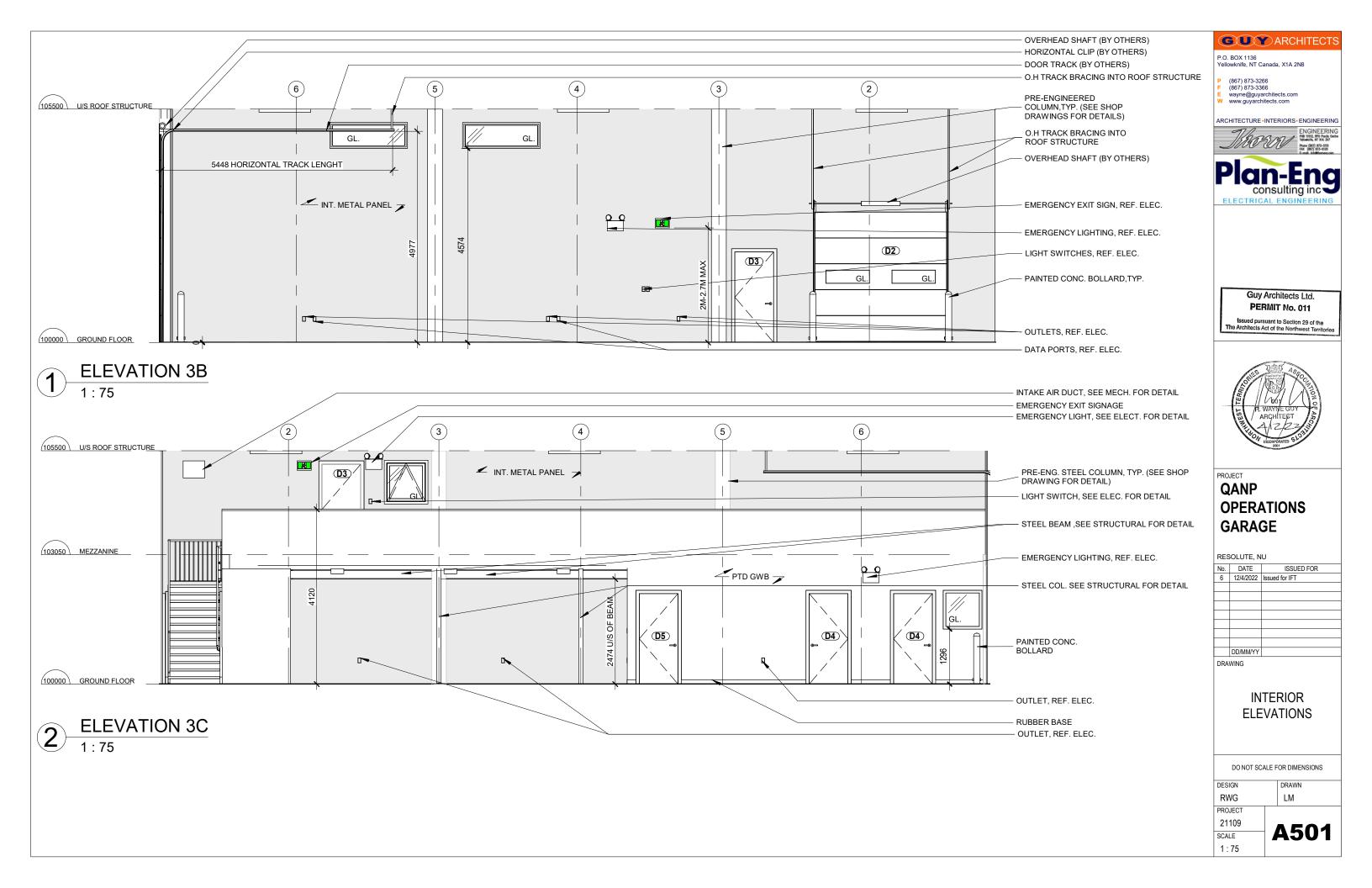
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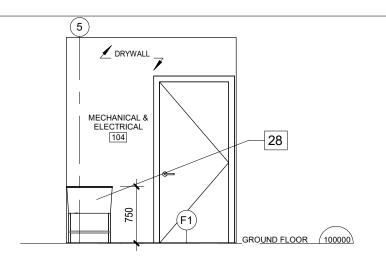
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SCALE As indicated





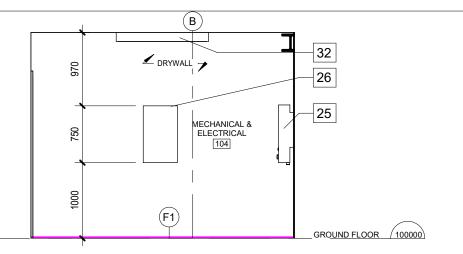


INT. ELEVATION 4A

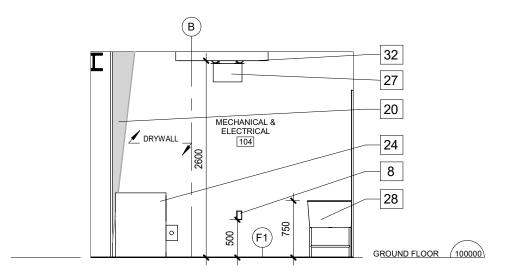
METAL LINEAR 20 P3 25 MECHANICAL & ELECTRICAL 104 0 24 (F1) GROUND FLOOR (100000)

INT. ELEVATION 4C 1:50

PTD GWB ○ EXHAUST CAP, REF. MECH. KITCHENETTE 102 914 100000 GROUND FLOOR



INT. ELEVATION 4B



INT. ELEVATION 4D

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P.O. BOX 1136 Yellowknife, NT Canada, X1A 2N8

NOTE: SEE SHEET A200 FOR KEYNOTE VALUE DESCRIPTION

(867) 873-3266 (867) 873-3366 wayne@guyarchitects.com www.guyarchitects.com

ARCHITECTURE • INTERIORS • ENGINEERING





Guy Architects Ltd. PERMIT No. 011

Issued pursuant to Section 29 of the The Architects Act of the Northwest Territor



PROJECT **QANP OPERATIONS GARAGE**

RESOLUTE, NU

No.	DATE	ISSUED FOR
6	12/4/2022	Issued for IFT
	DD/MM/YY	

DRAWING

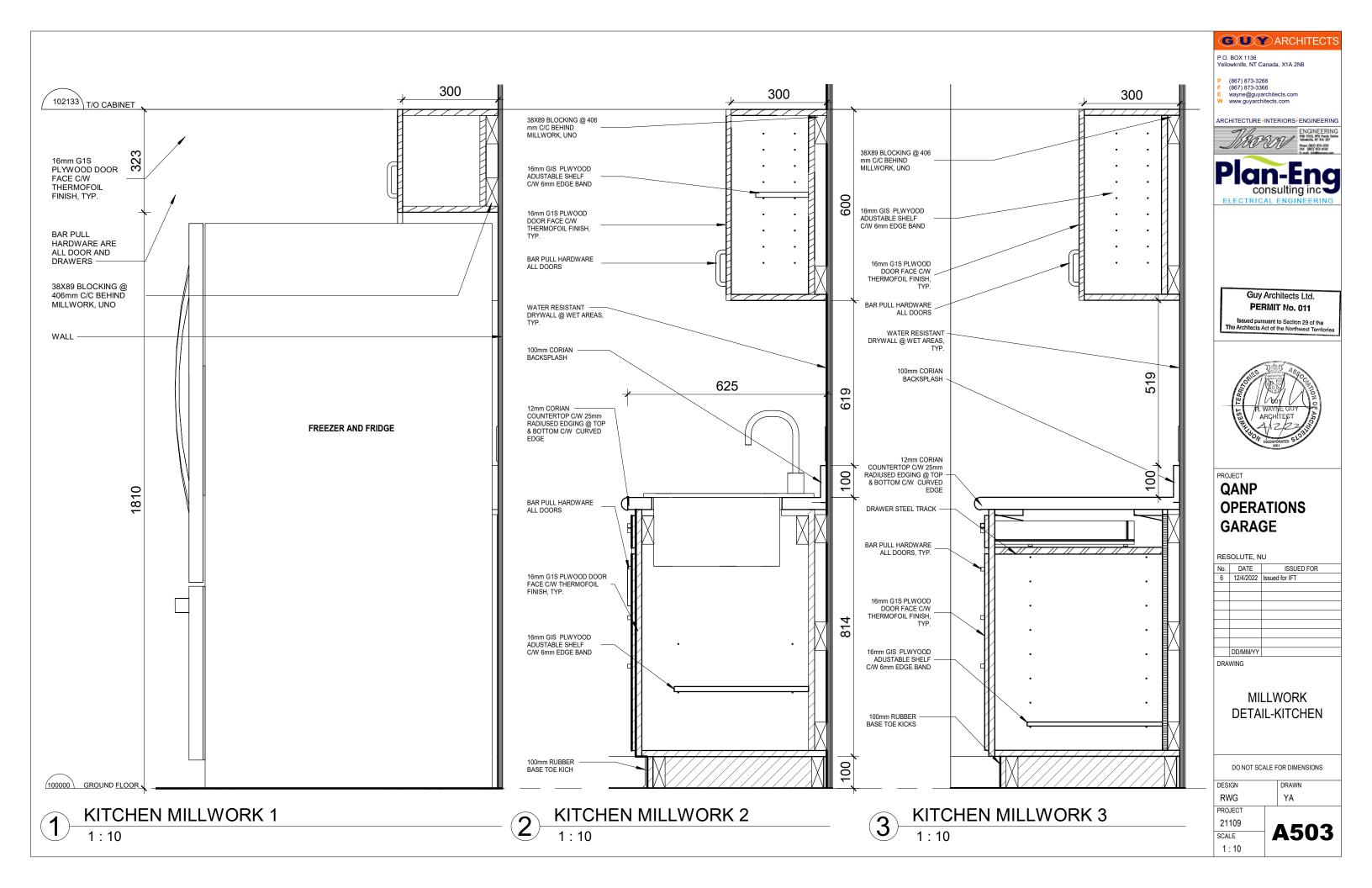
INTERIOR ELEVATIONS

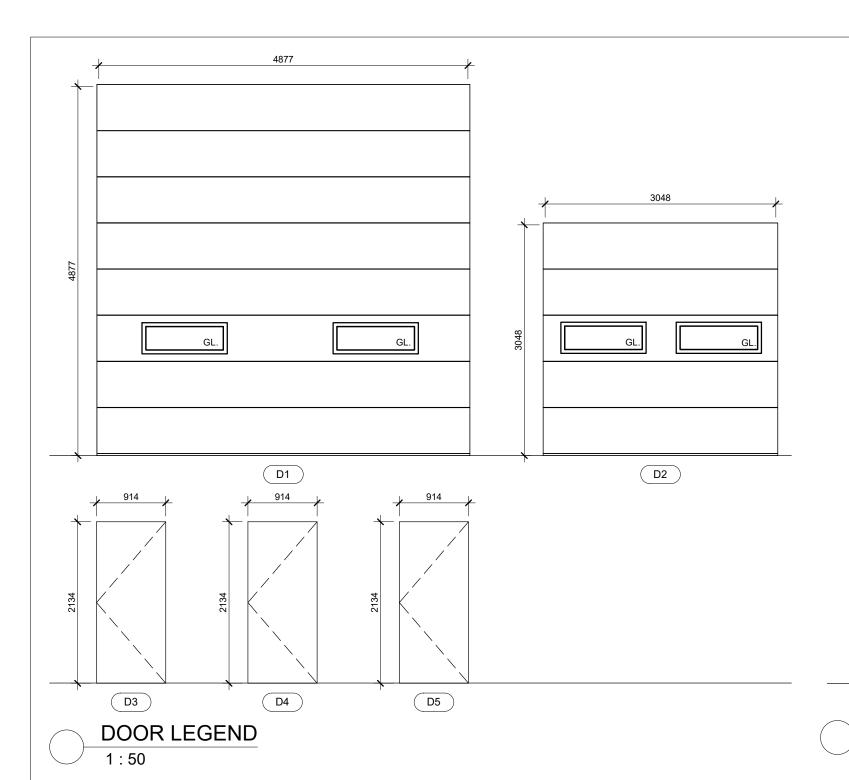
DO NOT SCALE FOR DIMENSIONS

DESIGN	DRAWN	
RWG	YA	
PROJECT	•	

21109 **A502** SCALE 1:50

KITCHEN ELEVATION 1:50





В WINDOW LEGEND

1829

	DOOR SCHEDULE								
TYPE	DIMEN	SIONS							
TIPE	WIDTH	HEIGHT	FRR	FRAME	OPERATION	COMMENTS			
D1	4877	4877	N/A	PSF	OVERHEAD, STANDARD LIFT,MANUAL AND AUTOMATIC OPERATED	WINDOW SIZE TO BE SPECIFIED BY MANF.			
D2	D2 3048 3048		N/A	PSF	OVERHEAD, STANDARD LIFT,MANUAL AND AUTOMATIC OPERATED	WINDOW SIZE TO BE SPECIFIED BY MANF.			
D3	914	2134	N/A	TB PSF	SWING, REF. A102 FOR DIRECTION				
D4	914	2134	N/A	PSF	SWING, REF. A102 FOR DIRECTION				
D5	914	2134	45 MIN.	45 MIN. PSF	SWING, REF. A102 FOR DIRECTION				

WINDOW SCHEDULE							
TYPE	DIMEN	SIONS					
ITE	WIDTH	HEIGHT	OPERATION				
Α	914	914	AWNING				
В	1829	610	FIXED				
С	914	914	FIXED				

1:50

GUY ARCHITECTS

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PROJECT

QANP OPERATIONS GARAGE

RESOLUTE, NU

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	12/4/2022

DRAWING

DOOR & WINDOW SCHEDULE

DO NOT SCALE FOR DIMENSIONS

DESIGN	DRAWN
RWG	LM/YA
PROJECT	·

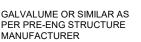
A600 SCALE 1:50

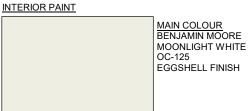
	ROOM FINISH SCHEDULE										
ROOM No.	OOM No. ROOM NAME CEILING WALL BASE FLOOR Comments										
101	GARAGE	PGB	STEEL	RB	CONC.						
102	KITCHENETTE	PGB	PGB	RB	CONC.	WR GWB ON WALL W/PLUMBING FIXTURES					
103	WASHROOM	PGB	PGB	RB	CONC.	WR GWB					
104	MECHANICAL & ELECTRICAL	PGB	PGB	RB	CONC.						
105	WATER TANK ROOM	PGB	PGB	RB	CONC.						
106	WORK STATION	PGB	STEEL	RB	CONC.						
201	MEZZANINE	PGB	PGB	RB	PERFORATED STEEL PANEL.						

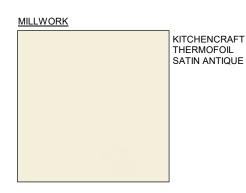
 $\underline{\text{NOTE:}}$ IN ROOMS w/ MULTIPLE FINISHES, REF. TO DWGS FOR LOCATIONS

COLOUR BOARD









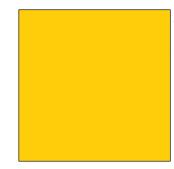




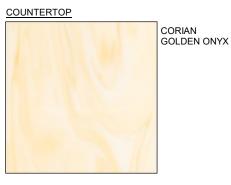
MEZZANINE & STAIR TREADS

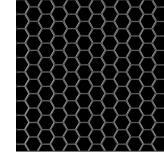






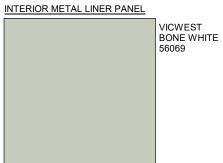


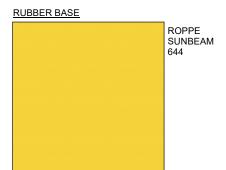














DD/MM/YY DRAWING FINISH SCHEDULE

ISSUED FOR

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PROJECT **QANP**

OPERATIONS

6 12/4/2022 Issued for IFT

GARAGE

RESOLUTE, NU

No. DATE

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DO NOT SCALE FOR DIMENSIONS

DESIGN	DRAWN
RWG	LM/YA
PROJECT	
21109	1 00

A601 SCALE 1:25

General Notes:

- 1. Read structural drawings in conjunction with Architectural & Mechanical drawings, and Geotechnical report prepared by Adaptive Baseline Geotechnical Ltd. dated November 24, 2021, File no: RES-G2102
- 2. Protect existing buildings, trees, fencing, utility poles, cables, active underground services and paving on the site or any adjoining properties from damage.
- 3. Check all dimensions, levels and details shown on structural drawings against architectural drawings and pre-eng superstrucutre's shop drawings.
- 4. Report any discrepancies to the engineer before proceeding with the work.

References And Related Specifications

All reference standards and related specifications shall be current issue or latest revision at the date of tender advertisement.

Codes Of Practice, By-Laws, Regulations

Comply with national building code (2015), Good Building Practice for Northern Facilities -4th Ed.), local by-laws, Canadian construction safety code and all regulations set by authorities having jurisdiction. In stringent requirements shall apply.

- 1. All structural members to be designed in accordance with national building code, latest
- 2. All concrete members are designed in accordance with C.S.A standards A23.3-04, -"design of concrete structures"
- 3. All structural steel members to be designed in accordance with C.S.A standards CAN/CSA-S16.1-94, -"limit states design of steel structures".

- No substitutions allowed unless the following arrangements are made
- 1. Written permission obtained from the consultant and the project manager
- 2. Steel contractor ensures that substitutions can be both physically and dimensionally incorporated in the work with no loss of intended function or construction time and at no additional cost to the owner

The contractor shall submit the following to the engineer, in accordance with the special provisions:

certification from the manufacturer stating that the materials supplied meet the specified requirements.

Shop Drawings

The Contractor to get written approval of GA's engineers for any shop drawings related to the work refered to in this drawings prior to construction.

Site Grading and Parking Area:

- 1. The Contractor to follow the recommendations and instructions included in the Geotechnical report prepared by Adaptive Baseline Geotechnical Ltd. dated November 24, 2021. File no: RES-G2102.
- 2. According to the Geotechnical report "The final site grades should be designed to eliminate the potential for ponding water around and ensure positive drainage away from the foundation elements onsite. In general, it is recommended that cuts into the native subgrade should be avoided

It is recommended that all driveway/parking areas receive at least 200 mm of Type 1 material (surface/base course), underlain by at least 300 mm of Type 2 material (sub-base), placed and compacted atop an approved subgrade. Any heavy-duty traffic areas should receive an additional 300 mm of Type 2 material (600 mm Type 2 sub-base material total). Prior to driveway/parking area material placement, the native subgrade should be proof rolled/compacted using a minimum 10-ton vibratory roller. Any soft spots identified during the proof roll should identified to our office and potentially excavated and replaced with approved Type 2 or similar crushed material under the direction and guidance of gualified geotechnical personnel. Any required excavation should conform to the requirements of the Occupational Health and Safety Act (OSHA) and consider the potential for underlying permafrost soils to thaw/soften during excavation creating an increasingly worse situation Excavations should be limited to only those areas deemed necessary and carried out in stages such that excavation and replacement occur within hours (depending on the observed rate of thaw and native soil behaviour).

All driveway/parking area fill material should be placed in maximum 300 mm thick lifts and compacted to 98% of the SPMDD within 300 mm of the subgrade surface and 95% of the SPMDD below this depth. The Type 1/Type 2 granular materials should be compacted to 100% of the SPMDD. Density testing is recommended to confirm each lift receives an adequate level of compaction prior to subsequent lifts. All permanent slopes for driveway/parking areas prepared as outlined herein shall be 2.5 horizontal:1 vertical (2.5H:1V) or gentler, unless approved by the geotechnical engineer-of-record for the

3. The gradation table for Type 1, 2 and Subgrade material in the Specification documents and on this sheet is from the Geotechnical report. If other gradations used due to the availability of the material in Resolute Bay, The Contractor to get approval of the geotechnical engineer of record.

Preparation of Subgrade under slabs:

Prior to the placement of any additional fill, the zone-of-influence beneath the proposed slab on grade shall be proof rolled using suitably sized heavy equipment under the direct supervision of qualified Geotechnical personnel. Any soft spots identified (exhibiting deflection or rolling) should be overexcavated and replaced with engineered fill to the satisfaction of the qualified Geotechnical representative onsite. At least 300 mm of engineered granular fill (Type 2 and/or Type 1) should be provided beneath the underside of the slab on grade. All engineered fill placed beneath the slab shall be compacted in lifts no greater than 300 mm thick (thinner lifts may be required depending on compaction equipment available) and compacted to at least 100% of the SPMDD determined for the material. A suitable vapor barrier shall be provided beneath the slab-on-grade and the inclusion of horizontal insulation may assist in delaying thaw beneath the slab. The modulus of Subgrade reaction of the engineered fill pad may be assumed as

Recommended Gradation for Type 1, Type 2 and Select Subgrade Materials

Property	ASTM Test Method	Type 2 (Sub-Base)	Type 1 (Base)	Select Subgrade
Gradation (sieve/% passing)	-	-	-	-
150 mm	C136	-	-	100
75.0 mm	C136	100	-	-
37.5 mm	C136	-	-	-
25.0 mm	C136	50-100	100	50-100
19.0 mm	C136	-	75-100	-
9.5 mm	C136	-	50-85	-
4.75 mm	C136	20- 55	35-65	20-100
2.0 mm	C136	-	25-50	-
0.425 mm	C136	5-35	15-30	-
0.300 mm	C136	-	-	5-95
0.150 mm	C136	-	-	2-65
0.075 mm	C117	0-8	5-8	0-25

Notes:

- If Bedrock is not found within 10m below grade, The Contractor to inform Geotech engineer of the project for grading instructions.
- The Contractor to inform ABG if the existing Geotechnical condition of site differs from what is noted in the Geotechnical Report. Such as shallow bedrock
- As per the Geotechnical report, "it is recommended that qualified geotechnical personnel be onsite throughout engineered fill pad, parking and driveway area preparation to ensure the native subgrade preparation and material placement/compaction meets project requirements. Density testing is recommended to confirm each lift receives an adequate level of compaction prior to subsequent lifts."



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PERMIT TO PRACTICE GUY ARCHITECTS LTD. JV APril 25, 2022

PERMIT NUMBER: P 840 NT/NU Association of Profession Engineers and Geoscientists



NOT FOR CONSTRUCTION

PROJECT

QANP OPERATIONS GARAGE

RESOLUTE, NU

No.	DATE	ISSUED FOR			
2	04/05/2022	IFT REVISION			
	DD/MM/YY				

DRAWING

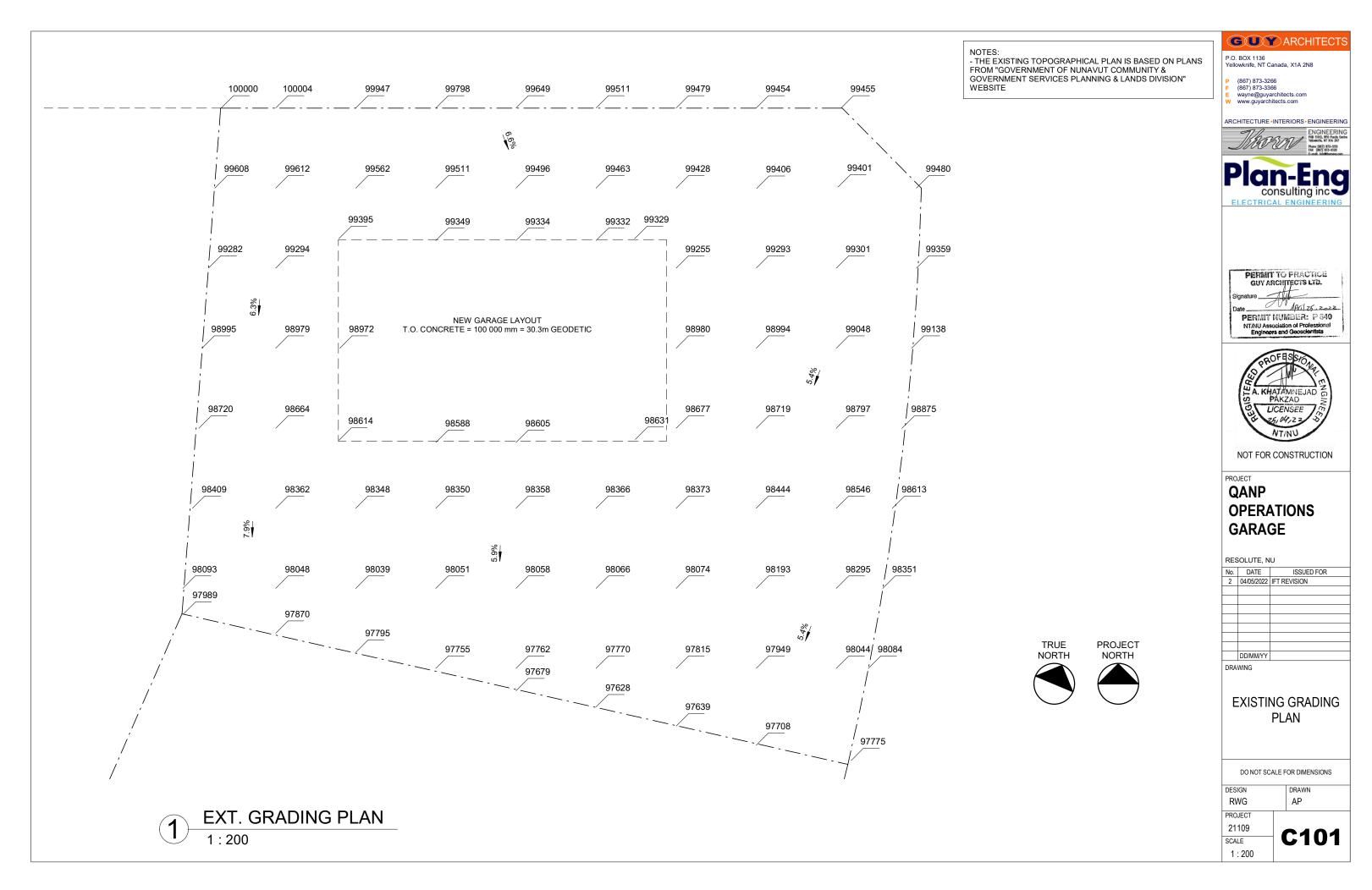
NOTES

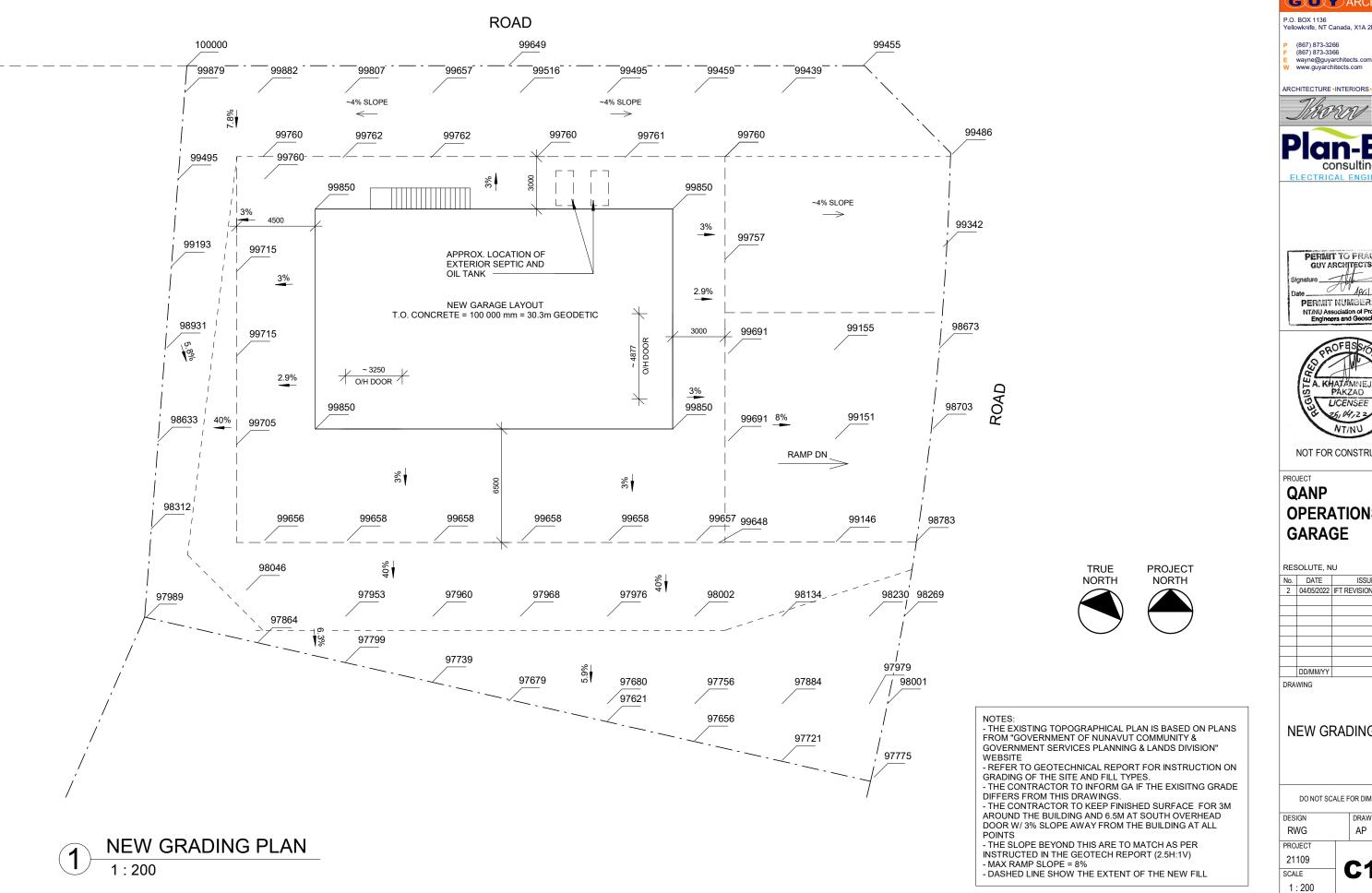
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DESIGN DRAWN RWG

PROJECT

C100





GUY ARCHITECTS

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PERMIT TO PRACTICE GUY ARCHITECTS LTD. JVV APril 25, 2022 PERMIT NUMBER: P 840 NT/NU Association of Profession Engineers and Geoscientists



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OPERATIONS GARAGE

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No. DATE		ISSUED FOR				
2	04/05/2022	IFT REVISION				
DD/MM/YY						
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NEW GRADING PLAN

DO NOT SCALE FOR DIMENSIONS

DRAWN

C102

General Notes:

- 1. Read structural drawings in conjunction with Architectural & Mechanical drawings, and Geotechnical report prepared by Adaptive Baseline Geotechnical Ltd. dated November 24, 2021, File no: RES-G2102
- 2. Protect existing buildings, trees, fencing, utility poles, cables, active underground services and paving on the site or any adjoining properties from damage.
- 3. Check all dimensions, levels and details shown on structural drawings against architectural drawings and pre-eng superstructure's shop drawings.
- 4. Report any discrepancies to the engineer before proceeding with the work.

References And Related Specifications

All reference standards and related specifications shall be current issue or latest revision at the date of tender advertisement.

Codes Of Practice, By-Laws, Regulations

Comply with national building code (2015), Good Building Practice for Northern Facilities -4th Ed.), local by-laws, Canadian construction safety code and all regulations set by authorities having jurisdiction. In stringent requirements shall apply.

- 1. All structural members to be designed in accordance with national building code, latest
- 2. All concrete members are designed in accordance with C.S.A standards A23.3-04, -"design of concrete structures"
- 3. All structural steel members to be designed in accordance with C.S.A standards CAN/CSA-S16.1-94, -"limit states design of steel structures".

No substitutions allowed unless the following arrangements are made

- 1. Written permission obtained from the consultant and the project manager
- 2. Steel contractor ensures that substitutions can be both physically and dimensionally incorporated in the work with no loss of intended function or construction time and at no

Submittals

The contractor shall submit the following to the engineer, in accordance with the special provisions:

certification from the manufacturer stating that the materials supplied meet the specified requirements.

Shop Drawings

The Contractor to get written approval of GA's engineers for any shop drawings related to the work referred to in this drawings prior to construction.

Foundation Design:

1. The proposed foundation design is based on The recommendations included in the Geotechnical report prepared by Adaptive Baseline Geotechnical Ltd. dated November 24, 2021, File no: RES-G2102 for Rock Socket Steel pipe piles and Slab on grade foundation. 2. According to the Geotechnical report, there is potential for movement of the interior slab upon Frost thaw of the underlying soils. However, the resulting movement may be minimal Further Geotechnical investigation is required for modeling and analyzing for more recommendations. Therefore, This option may require periodic maintenance. This is a question of construction costs versus maintenance costs and serviceability requirements. 3. Pile installation monitoring by Others.

Design Loads

ROOF LOADS: DL: 2 KPA LL: 1.0 KPA MAIN FLOOR OFFICES: DL: 4.0 KPA 11 · 4 8 KPA MECHANICAL ROOM: DL: 4.0 KPA 11:36 KPA GARAGE AREA: DI · 4 0 KPA II:60 KPA MF77ANINE DL: 1.0KPA 11 · 4 8 KPA WINDL : Q50: 0.48KPA

SPECIFIED SNOW LOAD

S = Is[Ss(CbCwCsCa)+Sr][4.1.6.2]

Location: Resolute Nunavut

Ss = 2 kPa / Sr = 0.1 kPa, Importance Factor, ULS: Is = 1.0 / SLS: Is = 0.9 ULS:

S = 1.0[2(0.8*1.0*1*1.0)+0.1] = 1.7kPa

S = 1.7 kPa, S = 35.5 psf

S = 0.9[2(0.8*1.0*1*1.0)+0.1] = 1.53kPa

S = 1.53 kPa, S = 32 psf

SEISMIC LOAD:

Input Values

Location: Resolute, Nunavut

Sa(0.2) = 0.194Sa(0.5) = 0.105Sa(1.0) = 0.057Sa(2.0) = 0.028Sa(5.0) = 0.0069Sa(10.0) = 0.003PGA = 0.124 PGV = 0.084Site class = C

Location: Resolute, Nunavut

q50: 0.69kPa, Importance Factor, ULS: Iw = 1.0 / SLS: Iw = 0.75

Load Case B: Winds generally parallel to ridge

	Load Case A			Load Case B		
Side	C_pC_g	ULS	SLS	C_pC_g	ULS	SLS
		р	p		р	р
		(kPa)	(kPa)		(kPa)	(kPa)
1	0.97	0.6	0.45	-0.85	-0.53	-0.4
1E	1.46	0.91	0.68	-0.9	-0.56	-0.42
2	-1.3	-0.81	-0.61	-1.3	-0.81	-0.61
2E	-2	-1.24	-0.93	-2.0	-1.24	-0.93
3	-0.88	-0.55	-0.41	-0.7	-0.43	-0.33
3E	-1.27	-0.79	-0.59	-1.0	-0.62	-0.47
4	-0.77	-0.48	-0.36	-0.85	-0.53	-0.4
4E	-1.16	-0.72	-0.54	-0.9	-0.56	-0.42
5	n/a	n/a	n/a	0.75	0.47	0.35
5 E	n/a	n/a	n/a	1.15	0.71	0.54
6	n/a	n/a	n/a	-0.55	-0.34	-0.26
6 E	n/a	n/a	n/a	-0.8	-0.5	-0.37

WIND PRESSURE SIDES

Concrete

A Grade beams

Concrete strength (minimum) - 35 mpa Cement type - GU (formerly type 10) Exposure class - F-2 Air content - 5-8% Aggregate size (maximum) - 20mm Slump 80 +/- 20mm Max W/C ratio - 0.55

B. Interior slabs

Concrete strength (minimum) - 32 mpa Cement type - GU (formerly type 10) Exposure class - N Air content - N Aggregate size (maximum) - 20mm Slump 80 +/- 20mm

C. Exterior slabs on grade

Max W/C ratio - 0.50 Concrete strength (minimum) - 32 mpa Cement type - GU (formerly type 10) Exposure class - C-2 Air content - 5-8% Aggregate size (maximum) - 20mm Slump 80 +/- 20mm Max W/C ratio - 0.50

Strength: 28-day compressive strength per CSA A23.2-09

Cement type as defined in CSA A23.1-09

Exposure: Class of exposure per CSA A23.1-09 for determination of water cement ratio High range water reducing agents may be added to increase workability and Slump: aid in the placement of concrete where the specified slump is less than 80mm

Fly ash: Not permitted in floor slab concrete mixes

Curing Method

Ponding or continuous sprinkling, absorptive mat or fabric kept continuously wet, curing compound. Polyethylene sheet is not an acceptable curing method for slabs which are to be exposed. Curing Compounds shall not be used on concrete surfaces to receive topping or other type of bonded finish unless approved by engineer. Curing temperature range: between +10 and +20 degrees Celsius.

Type GU (10): hydrated min.7 days

Cold Weather Concrete Curing

Do not allow concrete to come into contact with frozen ground

Heated curing time: use ACI committee 209 equation to achieve 70% of 28 day strength at 20 degrees Celsius Cooling after protection: maximum allowable temperature drop during the first 24 hours after the end of protection

Freezing: concrete shall not be allowed to freeze in a saturated condition before developing a 28-Day compressive strength of 70% f'c

- 1. Reinforcing steel is to conform to CSA G30.12M GRADE 400 MPA
- 2. Reinforcing steel is to be placed as detailed to 10rnm tolerance and is to be supported by metal or plastic supports and/or hangers in accordance with ACI 315.00.
- 3. Lap all reinforcing bar splices 30 bar diameters minimum unless indicated otherwise on the drawings 4. Reinforcing steel is to be clean, free of corrosion and undamaged. Do not held bars or use heat to bend reinforcing steel.
- 5. Welded wire mesh is to conform to CSA G30.15
- 6. Concrete cover over reinforcement is to be min 30mm from top surface of deck topping

Structural Steel

- 1. Structural steel is to conform to CSA G40.21- GRADE 350 MPA
- 2. The steel fabricator is responsible for providing shop drawings for GA's Engineers for approval. connections are to be designed for maximum shear capacity of supported member unless noted otherwise.
- 3. Structural bolts are to conform to ASTM A325. Minimum diameter cadmium plated if exposed to weather.
- 4. Fabricate and erect structural steel to CAN/CSA S16-01.
- 5. Welding to confirm to CSA W-59 by fabricators certified by Canadian Welding Bureau to the requirements
- of CSA W47.1 Division 1 or 2.1
- 6. High strength steel bolt field connections except where detailed otherwise.
- 7. Prepare steel surfaces for painting to SSPC SP3 all steel
- 8. The steel fabricator is to submit drawings and steel layout plans in accordance with the building specification (section 00-13-01) to the engineer for review, minimum 3 weeks prior to fabrication.

The shop drawings are to include but not be limited to the following: Project name. Project address. Design loads, Design methods, live load and total load deflections, member layout, member sizes, material grade, bracing systems, bearing requirements, bearing attachment, member details and installation procedure. the drawings are to be sealed by a professional engineer registered in Northwest Territories certifying that the steel members are correct for the specified design loads

Shop Painting

Select surface preparation and shop priming in accordance with severity of environmental conditions by using either CSA S16 or CAN/CGSB-85.100.

- 1. Clean, prepare surfaces and shop prime structural steel in accordance with CAN/CSA-S16]. Use the following two paragraphs for normal environmental conditions
- 2. Clean members, remove loose mill scale, rust, oil, dirt and foreign matter. Prepare surface according to
- NACE No.3/SSPC-SP-6.
- 3. Prepare steel surfaces for painting to SSPC SP3 all steel and apply CISC/CPMA 2-75 over Commercial Blast Cleaning, one or two field coats enamel. 37-50 micrometers (1-2 mils) dry film thickness per coat, minimum system dry film thickness, 75-100 micrometers (3-4 mils).

Recommended Gradation for Type 1, Type 2 and Select Subgrade Materials

As per the Geotechnical report of the site

			_	
Property	ASTM Test Method	Type 2 (Sub-Base)	Type 1 (Base)	Select Subgrade
Gradation (sieve/% passing)	-	-	_	_
150 mm	C136	-	-	100
75.0 mm	C136	100	_	_
37.5 mm	C136	-	-	-
25.0 mm	C136	50 - 100	100	50 – 100
19.0 mm	C136	-	75 – 100	_
9.5 mm	C136	-	50 – 85	_
4.75 mm	C136	20 – 55	35 – 65	20 – 100
2.0 mm	C136	-	25 – 50	_
0.425 mm	C136	5 – 35	15 – 30	_
0.300 mm	C136	-	-	5 – 95
0.150 mm	C136	-	-	2 – 65
0.075 mm	C117	0-8	5-8	0 – 25

Preparation of Subgrade under slabs:

Prior to the placement of any additional fill, the zone-of-influence beneath the proposed slab on grade shall be proof rolled using suitably sized heavy equipment under the direct supervision of qualified Geotechnical personnel. Any soft spots identified (exhibiting deflection or rolling) should be overexcavated and replaced with engineered fill to the satisfaction of the qualified Geotechnical representative onsite. At least 300 mm of engineered granular fill (Type 2 and/or Type 1) should be provided beneath the underside of the slab on grade. All engineered fill placed beneath the slab shall be compacted in lifts no greater than 300 mm thick (thinner lifts may be required depending on compaction equipment available) and compacted to at least 100% of the SPMDD determined for the material. A suitable vapor barrier shall be provided beneath the slab-on-grade and the inclusion of horizontal insulation may assist in delaying thaw beneath the slab. The modulus of Subgrade reaction of the engineered fill pad may be assumed as

Notes:

- All structural components for the super structure above foundation are engineered by others including main structural columns and z-girt/exterior wall.
- All steel columns locations, numbers, sizes, etc are approximate. Refer to manufacturer's shop drawings for precise dimensions.
- If Bedrock is not found within 10m below grade. The Contractor to inform Geotech engineer of the project for instruction and pile type.
- The Contractor to inform ABG if the existing Geotechnical condition of site differs from what is noted in the Geotechnical Report. Such as shallow bedrock.
- As per the Geotechnical Report, "Each steel pipe pile installation requires full-time monitoring by qualified geotechnical personnel familiar with air-track drilling procedures and permafrost soils, to confirm subsurface conditions are consistent with the design and that construction is carried out in accordance with design. During rock socket pipe pile installations, onsite geotechnical personnel shall monitor grout mix ratios, obtain grout samples for confirmation of UCS in a southern laboratory and record all pertinent information for each foundation unit."
- All welds to be 6mm continuous fillet welds
- All exposed steel framing to be primed as per instructed.



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NOT FOR CONSTRUCTION

PROJECT

QANP OPERATIONS GARAGE

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DRAWING

DATE	ISSUED FOR
25/04/2022	IFT
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	25/04/2022

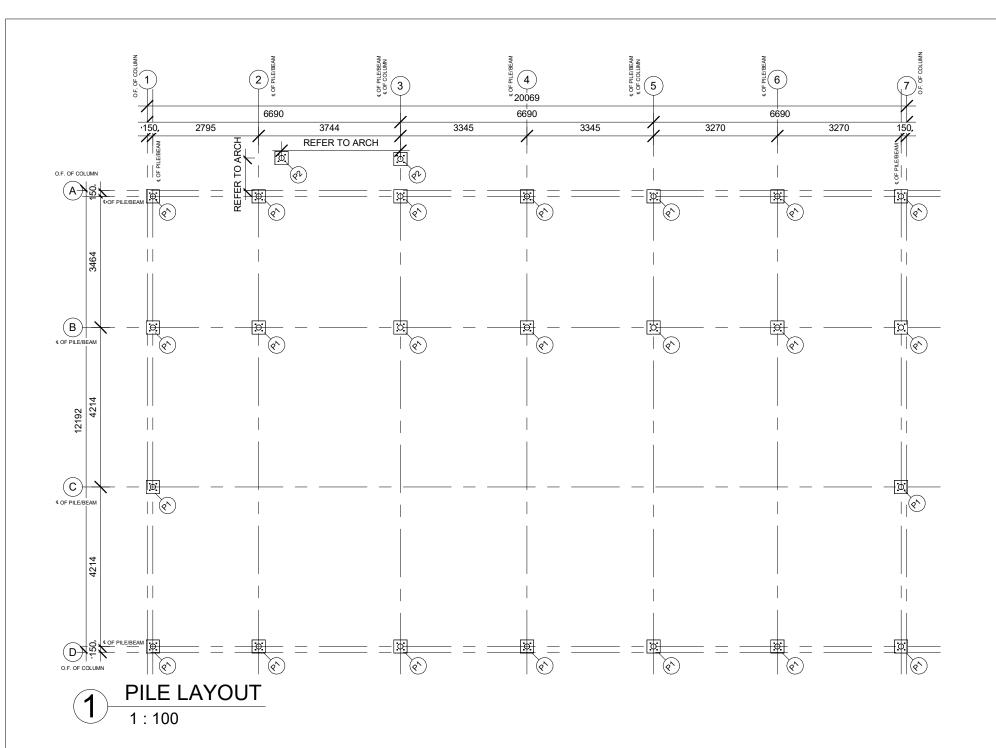
NOTES

DO NOT SCALE FOR DIMENSIONS

DESIGN DRAWN RWG ΑP PROJECT

21109

S100



P1: ROCK SOCKET STEEL PIPE PILES

- REFER TO GEOTECHNICAL REPORT PREPARED BY ABG. DATED NOVEMBER 24, 2021, FILE NO: RES-G2102 - Ø 141mm DIA. 6.4mm THICK ROCK SOCKETED PILE DRILLED

AND GROUTED INTO BEDROCK MIN 1500mm. - TO FORM BOND BREAKER, PILES TO BE WRAPPED IN TAPE

AND GREASE FROM 300mm ABOVE THE ROCK SOCKET BOND ZONE, TO U/S OF CONCRETE. IF ANY OTHER BOND BREAKER IS USED, THE CONTRACTOR TO INFORM ABG FOR APPROVAL.

- W/ 350X350X19mm PILE CAP WELDED AT TOP OF PILES WITH 4-20M REBARS (L=475mm) WELDED AT TOP OF THE PLATE. TO BE EMBEDDED IN CONCRETE AS SHOWN.

P1: ROCK SOCKET PILES FOR EXTERIOR STAIRWAY ALL SAME AS P1 EXCEPT

- USE 452X452X19mm PILE CAP W/ HOLES FOR 4-20mm Ø DIA BOLTS TO GET FIXED TO C5 COLUMNS/ BASE PLATE INSTEAD OF 20M REBARS.

- FOR ALL PILE INSTALLATION PROCESS AND INSTRUCTION INCLUDING GROUTING AND INSTALLATION MONITORING REFER TO THE GEOTECH REPORT.

- ALL STRUCTURAL COMPONENTS OF MAIN STRUCTURE ABOVE FOUNDATION ARE ENGINEERED BY OTHERS.

- ALL STEEL COLUMNS LOCATIONS, SIZES AND NUMBERS ARE APPROXIMATE. REFER TO SUPERSTRUCTURE MANUFACTURER'S SHOP DRAWINGS AND ARCH FOR DETAILS.

- THE SUPERSTRUCTURE SHOP DRAWING WAS NOT PROVIDED AT THE TIME OF THE FOUNDATION DESIGN. THE OWNER/CONTRACTOR TO PROVIDE SHOP DRAWINGS TO GA FOR REVIEW BEFORE CONSTRUCTION.

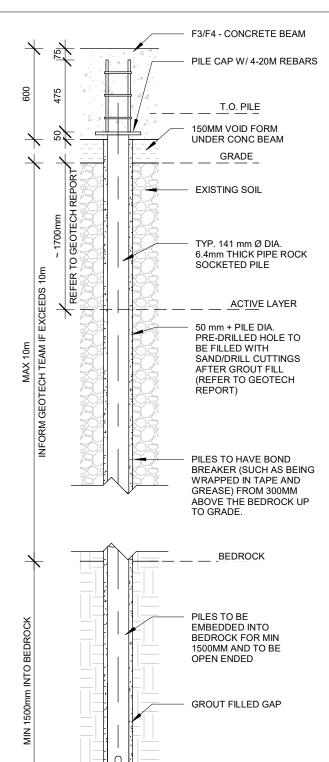
- FOR LOCATION OF THE CATCH BASIN ON THE SLAB REFER TO ARCH. - FOR SLOPE TO CATCH BASIN REFER TO ARCH AND MECH. SLAB THICKNESS TO BE MAINTAINED AT MIN 152mm AT ALL LOCATIONS.

- FOR CATCH BASIN DETAIL AND INSTALLATION METHOD REFER TO MECH AND MANUFACTURER'S MANUAL

- ALL WELDS TO BE 6mm CONTINUOUS FILLET WELDS - ALL C1/C2/C3/C5 COLUMNS AND BASE PLATES TO BE ALIGNED RIGHT







END OF PILE

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ARCHITECTURE INTERIORS ENGINEERING

PERMIT TO PRACTICE GUY ARCHITECTS LTD. April 25, 2022 PERMIT NUMBER: P 840 NT/NU Association of Profession Engineers and Geoscientists



PROJECT

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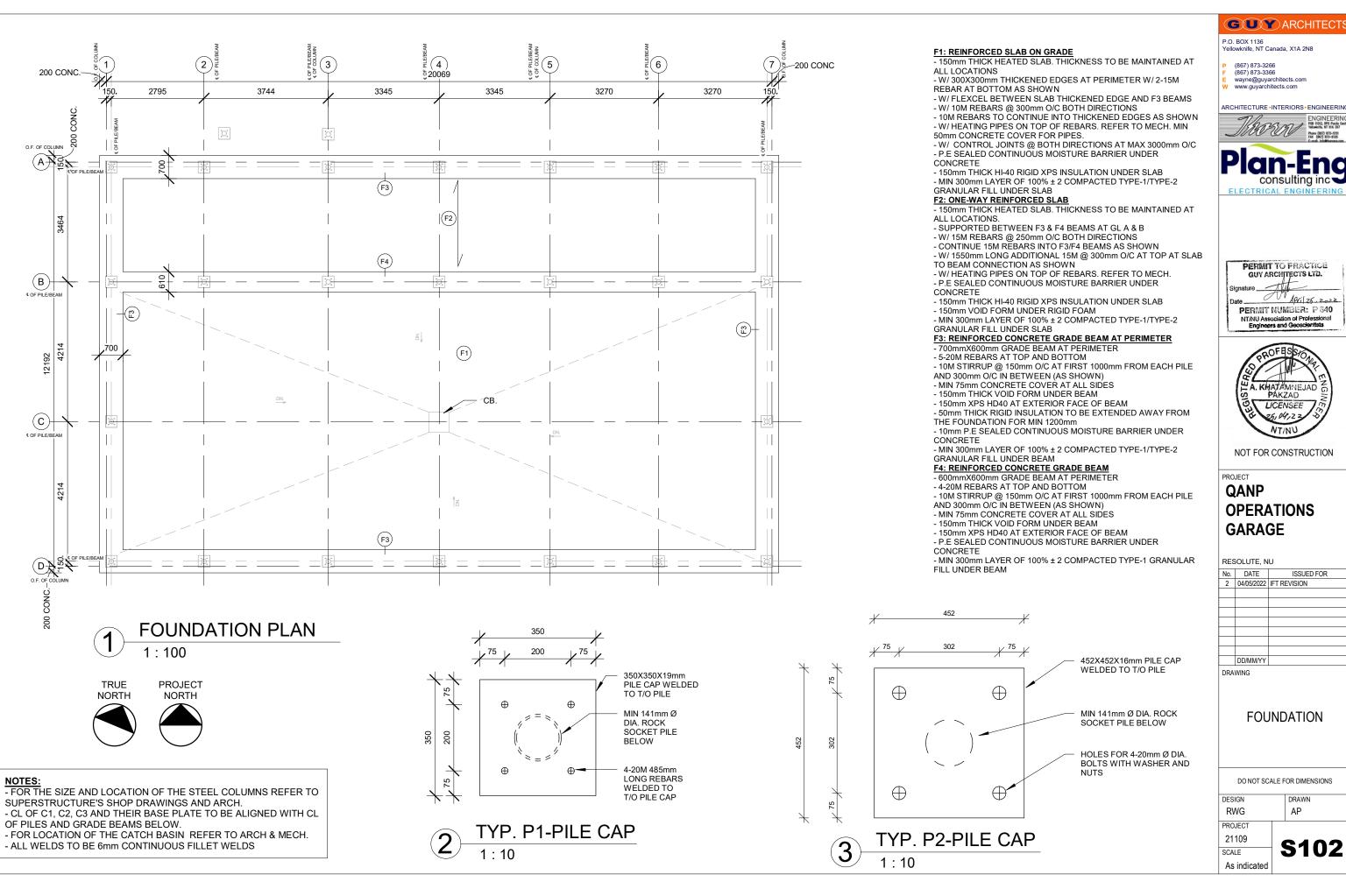
PILE LAYOUT

DO NOT SCALE FOR DIMENSIONS

DESIGN DRAWN RWG AΡ PROJECT 21109

SCALE

S101 As indicated

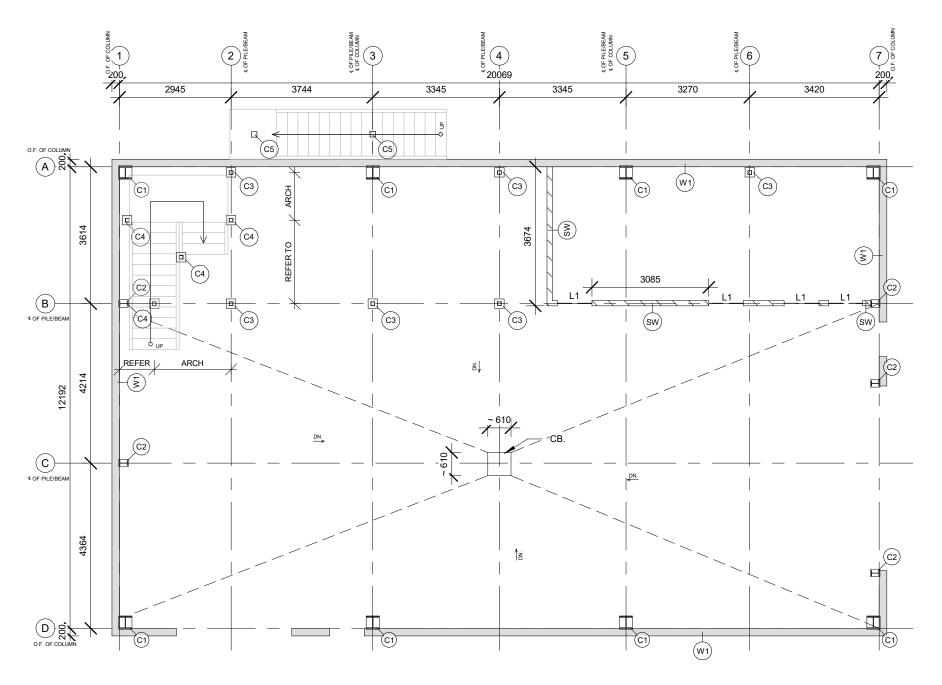


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MAIN FLOOR PLAN & FRAMING





C1 & C2: MAIN AND SECONDARY COLUMNS (BY OTHERS)

- REFER TO MANUFACTURER'S SHOP DRAWINGS FOR SIZE, LOCATION, AND MORE DETAILS.

- BASE PLATE AND ANCHOR ROD SPECIFICATION BY THE

MANUFACTURER.
- ANCHOR RODS TO BE HEADED RODS OR THREADED RODS

WITH A HEX NUT ON THE EMBEDDED END
- SINCE THE SHOP DRAWINGS ARE NOT PROVIDED AT THE TIME
OF DESIGN OF FOUNDATION AND INTERIOR STRUCTURE,
CONSIDER AT LEAST 525mm OF EMBEDMENT DEPTH FOR
ANCHOR RODS INTO CONCRETE.

- ALIGN CL OF COLUMN AND BASE PLATE WITH CL OF GRADE BEAM AND PILE BELOW.

C3: MEZZANINE COLUMNS

- HSS 102X102X6.4mm COLUMNS

- USE 250X250X16mm BASE PLATE W/ HOLES FOR 4-16mm Ø DIA. WEDGE/CAST-IN ANCHOR BOLTS. MIN L=150mm

- ALIGN CL OF COLUMN AND BASE PLATE WITH CL OF GRADE BEAM AND PILE BELOW.

- AT GL B, W/ 300X200X16mm POST CAP PLATE WELDED AT TOP W/ HOLES FOR 4-16mm Ø DIA. BOLTS W/ WASHER AND NUTS TO SECURE B1 BEAM ABOVE

C4: STAIRWAY/LANDING COLUMNS

- HSS 102X102X6.4mm COLUMNS

- USE 250X250X16mm BASE PLATE W/ HOLES FOR 4-16mm Ø DIA. WEDGE/CAST-IN ANCHOR BOLTS. MIN L=100mm

C5: EXTERIOR STAIRWAY COLUMNS

- HSS 152X152X9.5mm COLUMNS

- WELDED TO 452X452X16mm BASE PLATE W/ HOLES FOR 4-20mm Ø DIA. BOLTS W/ WASHER AND NUT TO GET FIXED TO PILE CAP BELOW.

- W/ GUSSET PLATES AS SHOWN.

- W/ 300X200X16mm POST CAP PLATE WELDED AT TOP W/ HOLES FOR 4-16mm Ø DIA. BOLTS W/ WASHER AND NUTS TO SECURE B1/B3 BEAM ABOVE

W1: EXTERIOR WALLS (BY OTHERS)

- REFER TO MANUFACTURER'S SHOP DRAWINGS FOR DETAILS.
- ALL STRUCTURAL COMPONENTS BY THE MANUFACTURER INCLUDING HEADERS, BRACING, SHEATHING AND ETC.

SW: INTERIOR LOADBEARING WALL

- LOAD BEARING WALL W/ 600S200-43 18GA FOR STUD @ 400 mm o/c AND 600T200-43 TRACKS 18GA

- W/2PLY STUDS AT ENDS AND CORNERS AND AT OPENINGS - BOTTOM TRACK TO BE BOLTED TO CONCRETE WITH MIN 13mm Ø DIA. WEDGE/ANCHOR BOLTS @ MAX 610mm O/C

- USE HOLDOWNS ANCHORED TO CONCRETE AT END, OPENING AND CORNER STUDS

- 2 ROWS OF HORIZONTAL BLOCKING BTW STUDS @ MAX 1200MM AND EQ. DISTANCE FROM TOP AND BOTTOM PLATES - MIN 16MM GWB AT SIDES WITH:

FASTENERS @ 76 mm AT PANEL EDGES

FASTENERS @ 203 mm AT INTERMEDIATE SUPPORTS - REFER TO ARCH FOR MORE DETAILS

- USE DOUBLE 38X140MM TOP PT ON TOP TRACK BOLTED TO TOP TRACK WITH MIN 13MM Ø DIA. BOLTS WITH WASHER AND NUT @ MAX 600MM O/C

L1: HEADERS IN LOADBEARING WALLS, L MAX = 1200mm

- STEEL BOX HEADER MADE UP OF 2-51X154 16GA TRACKS AT TOP AND BOTTOM AND 2-51X154 16 GA STEEL STUDS (PREFERED TO BE 600S200-68).

- SUPPORTED ON DOUBLE TRIMMERS ON EACH END

NOTES:

- ALL DIMENSION AND LOCATIONS SHOWN FOR C1 AND C2 COLUMNS ARE APPROXIMATE. REFER TO MANUFACTURER'S SHOP DRAWINGS.

- CL OF C1, C2, C3 AND THEIR BASE PLATE TO BE ALIGNED WITH CL OF PILES AND GRADE BEAMS BELOW.

- ALL C1/C2/C3/C5 COLUMNS AND BASE PLATES TO BE ALIGNED RIGHT ON TOP OF PILES.

- FOR LOCATION OF THE CATCH BASIN REFER TO ARCH & MECH

- ALL WELDS TO BE 6mm CONTINUOUS FILLET WELDS

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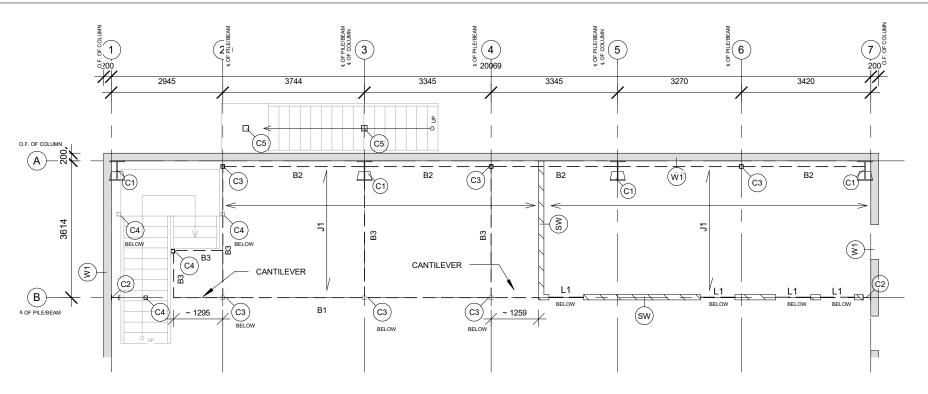
MAIN FLOOR PLAN

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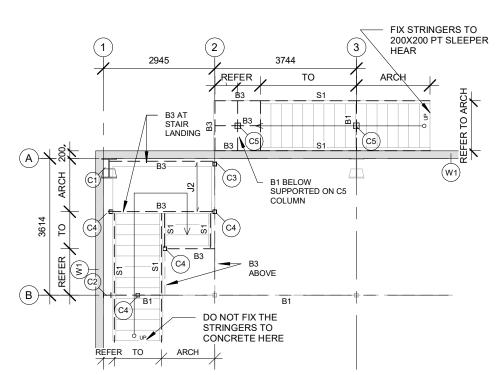
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21109 SCALE **\$103**

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MEZZANINE FRAMING



STAIRWAY FRAMING

TRUE NORTH

PROJECT NORTH



S1: STAIRWAY STRINGER

- C200X21 C-CHANNEL STRINGERS AT BOTH SIDES
- CONNECTED TO B3 BEAMS AT LANDINGS AS SHOWN
- SUPPORTED ON B3 BEAM AT MID SPAN AS SHOWN
- W/L100X100X6.4mm ANGLES WELDED AT INNER FACE TO SUPPORT TREAD PLANKS - W/ WEB STIFFENER AT MAX 1200mm O/C AND ADDITIONAL STIFFENERS AT B1
- FOR EXTERIOR STAIRWAY, CONNECT THE END OF STRINGER AT TOP OF 200X200 PT SLEEPER W/ ANGLES AND LAG SCREWS AT GRADE
- FOR INTERIOR STAIRWAY, DO NOT ATTACH THE END OF STRINGER TO CONCRETE TO AVOID DIFFERENTIAL MOVEMENT. WELD A PLATE TO JUST SIT ON THE CONCRETE.

- 302mm DP TJI360 @ 400mm O/C
- W/ MIN 16mm PLYWOOD NAILED AND GLUED AT TOP
- SUPPORTED ON SW WALL AND B1 BEAM AT GL B AND SUPPORTED ON B2 BEAMS AT
- SUPPORTED ON 38X140mm RUNNERS ON TOP OF B1/B2/B3 BEAMS
- CANTILEVER OVER B2 AT GL A TO REACH INNER FACE OF EXTERIOR WALL (W1). REFER TO ARCH FOR MORE DETAILS.
- NAILING AND JOIST TO RUNNER/TOP PLATE CONNECTION AS PER
- MANUFACTURER'S INSTRUCTION
- USE ADDITIONAL SIMPSON STRONG TIE A23 ANGLES ON EVERY THIRD JOIST TO TIE DOWN TO RUNNER/TOP PLATE.
- W/RIM JOIST AND BLOCKING AS PER MANUFACTURER'S INSTRUCTION

J2: INTERIOR STAIRWAY MID LANDING JOISTS

- 38X184mm JOISTS @ 400mm O/C
- W/ MIN 16mm PLYWOOD NAILED AND GLUED AT TOP
- SUPPORTED ON 38X140mm RUNNERS ON TOP OF B3 BEAMS
- CANTILEVER OVER B3 AT GL A TO REACH INNER FACE OF EXTERIOR WALL (W1).
- REFER TO ARCH FOR MORE DETAILS.

- W/ RIM JOIST/BOARD AT ENDS

- L1: HEADERS IN LOADBEARING WALLS, L MAX = 1200mm - USE 2PLY 38X184mm HEADERS
- SUPPORTED ON 3PLY 38X140mm JACK STUDS - W/2PLY KING STUDS AS OER SW WALL.

C1 & C2: MAIN AND SECONDARY COLUMNS (BY OTHERS)

- REFER TO MANUFACTURER'S SHOP DRAWINGS FOR SIZE, LOCATION, AND MORE
- BASE PLATE AND ANCHOR ROD SPECIFICATION BY THE MANUFACTURER - ANCHOR ROD TO BE HEADED RODS OR THREADED RODS WITH A HEX NUT ON THE
- SINCE THE SHOP DRAWINGS ARE NOT PROVIDED AT THE TIME OF DESIGN OF FOUNDATION AND INTERIOR STRUCTURE, CONSIDER AT LEAST 500mm OF EMBEDMENT
- DEPTH FOR ANCHOR RODS INTO CONCRETE. - ALIGN CL OF COLUMN AND BASE PLATE WITH CL OF GRADE BEAM AND PILE BELOW

C3: MEZZANINE COLUMNS

- HSS 102X102X6.4mm COLUMNS

- USE 250X250X16mm BASE PLATE W/ HOLES FOR 4-16mm Ø DIA. WEDGE/CAST-IN ANCHOR
- ALIGN CL OF COLUMN AND BASE PLATE WITH CL OF GRADE BEAM AND PILE BELOW - AT GL B, W/ 300X200X16mm POST CAP PLATE WELDED AT TOP W/ HOLES FOR 4-16mm Ø DIA. BOLTS W/ WASHER AND NUTS TO SECURE B1 BEAM ABOVE

C4: STAIRWAY/LANDING COLUMNS

- HSS 102X102X6.4mm COLUMNS

- USE 250X250X16mm BASE PLATE W/ HOLES FOR 4-16mm Ø DIA. WEDGE/CAST-IN ANCHOR BOLTS, MIN L=100mm

C5: EXTERIOR STAIRWAY COLUMNS

- HSS 152X152X6.4mm COLUMNS
- WELDED TO 452X452X16mm BASE PLATE W/ HOLES FOR 4-20mm Ø DIA. BOLTS W/ WASHER AND NUT TO GET FIXED TO PILE CAP BELOW.
- W/ GUSSET PLATES AS SHOWN.
- W/300X200X16mm POST CAP PLATE WELDED AT TOP W/HOLES FOR 4-16mm Ø DIA.

BOLTS W/ WASHER AND NUTS TO SECURE B1/B3 BEAM ABOVE W1: EXTERIOR WALLS (BY OTHERS)

- REFER TO MANUFACTURER'S SHOP DRAWINGS FOR DETAILS.

- ALL STRUCTURAL COMPONENTS BY THE MANUFACTURER INCLUDING HEADERS, BRACING. SHEATHING AND ETC.

SW: INTERIOR SHEAR WALLS

- LOAD BEARING WALL W/ 38X140mm@400mm O/C
- W/ 3PLY STUDS AT ENDS AND CORNERS.
- W/ 2PLY STUDS AT OPENINGS
- BOTTOM PT TO BE BOLTED TO BOTTOM CONCRETE WITH MIN 13mm Ø DIA, BOLTS @ MAX 610mm O/C
- USE HD9B HOLDOWNS ANCHORED TO CONCRETE AT END/ OPENING AND CORNER STUDS
- 2 ROWS OF HORIZONTAL BLOCKING BTW STUDS @ MAX 1200MM AND EQ. DISTANCE FROM TOP AND

BOTTOM PLATES

- MIN 13 MM PLYWOOD & 13 MM GWB AT SIDES WITH:
- FASTENERS @ 76 mm AT PANEL EDGES
- FASTENERS @ 203 mm AT INTERMEDIATE SUPPORTS - REFER TO ARCH FOR MORE DETAILS

B1: CONTINUES BEAM - MEZZANINE

- W200X31 BEAM

- SUPPORTED ON TOP OF C3 COLUMNS W/ COLUMN CAP AND 4-16mm Ø DIA BOLTS W/ WASHER AND NUTS.
- CANTILEVER OVER C3 AT GL 2 & 4
- W/ 13mm WEB STIFFENERS BOTH SIDES AT T/O COLUMNS AND AT MAX 1200mm O/C AT LENGTH OF THE STRINGER
- W/ HOLES AT TOP FLANGE @ MAX 600mm O/C FOR 13mm Ø DIA BOLTS W/ WASHER AND NUT ALTERNATED ON EACH SIDE OF WEB TO SECURE 38X140mm RUNNER ABOVE - AT STRINGER MID SUPPORT OF INTERIOR/EXTERIOR STAIRWAY, B1 TO RUN BETWEEN S1 STRINGERS AND SUPPORTED ON POST CAP AS SHOWN.

B2: BEAM - MEZZANINE

- W210X31 BFAM
- SUPPORTED IN BETWEEN C3 AND C1 COLUMNS AS SHOWN
- W/ 13mm WEB STIFFENERS BOTH SIDES AT MAX 1200mm O/C
- W/ HOLES AT TOP FLANGE @ MAX 600mm O/C FOR 13mm Ø DIA BOLTS W/ WASHER AND NUT ALTERNATED ON EACH SIDE OF WEB TO SECURE 38X140mm RUNNER ABOVE

B3: C-CHANNEL

- C200X21 C-CHANNEL
- W/ TYP. 13mm WEB STIFFENERS AT MAX 1200mm O/C
- AT MEZZANINE FRAMING, SUPPORTED IN BETWEEN C1/C3 COLUMNS AT ONE END AND THE WEB OF B1 BEAM AT OTHER END AS SHOWN
- -AT TOP LANDING OF INTERIOR STAIRWAY, C-CHANNEL TO RUN BETWEEN C4 AND B3. W/ADDITIONAL STIFFENER AT WEB OF B3. W/HOLES AT TOP FLANGE @ MAX 600mm O/C FOR 13mm Ø DIA BOLTS W/ WASHER AND NUT ALTERNATED ON EACH SIDE OF WEB TO SECURE 38X140mm RUNNER ABOVE
- AT MID LANDING OF INTERIOR STAIRWAY, C-CHANNEL TO RUN BETWEEN C1-C4 AND C4-C4 AT MID LANDING HEIGHT. W/ HOLES AT TOP FLANGE @ MAX 600mm O/C FOR 13mm Ø DIA BOLTS W/ WASHER AND NUT ALTERNATED ON EACH SIDE OF WEB TO SECURE 38X140mm
- -AT EXTERIOR STAIRWAY LANDING, C-CHANNEL AT ALL SIDES AND IN MIDDLE SUPPORTED ON B1 BEAM BELOW W/MIN 2-16mm Ø DIA BOLTS W/ WASHER AND NUT AT EACH CONNECTION. W/ WEB STIFFENER AT T/O B1 BEAM

- ALL DIMENSION AND LOCATIONS SHOWN FOR COLUMNS ARE APPROXIMATE. REFER TO MANUFACTURER'S SHOP DRAWINGS AND ARCH.
- CL OF C1, C2, C3 AND THEIR BASE PLATE TO BE ALIGNED WITH CL OF PILES AND GRADE BEAMS BELOW.
- FOR LOCATION OF THE CATCH BASIN REFER TO ARCH & MECH.
- ALL BEAMS TO HAVE 13mm WEB STIFFENER AT MAX 1200mm O/C
- ALL WELDS TO BE 6mm CONTINUOUS FILLET WELDS

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ARCHITECTURE INTERIORS ENGINEERING





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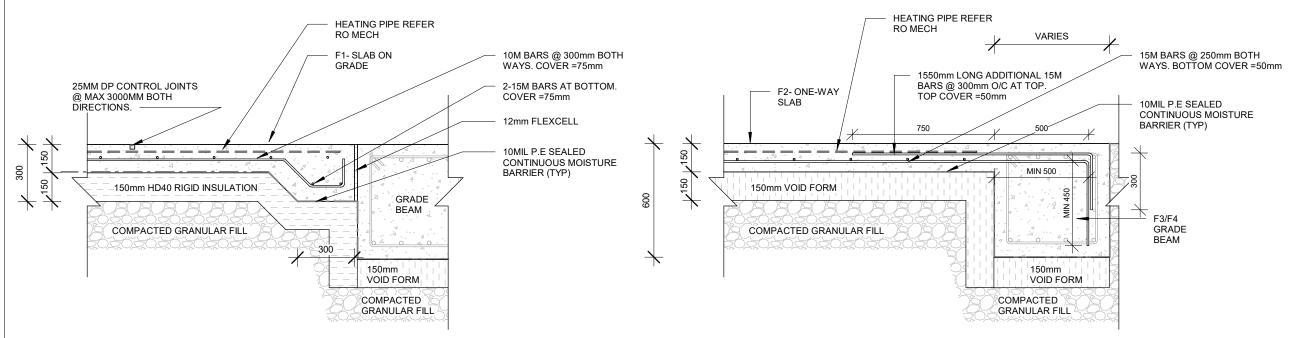
> **MEZZANINE &** STAIRWAY PLAN

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DESIGN DRAWN RWG AΡ PROJECT

21109 **S104** SCALE

1:100



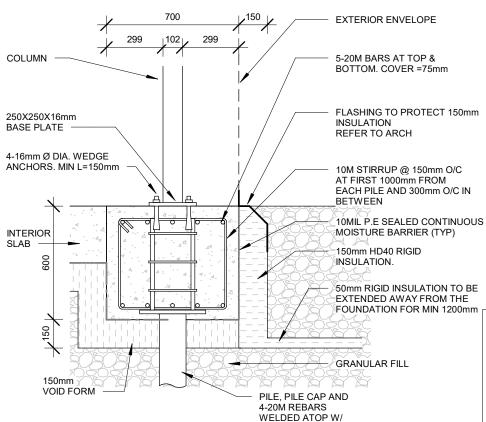
1 F1 - TYP. SLAB ON GRADE SECTION

~ 300 EXTERIOR ENVELOPE REFER TO SHOP DRAWINGS 5-20M BARS AT TOP & COLUMN — BOTTOM. COVER =75mm BASE PLATE AND ANCHOR ROD FLASHING TO PROTECT 150mm SIZE/NUMBERS FOR INSULATION MAIN COLUMN BY REFER TO ARCH OTHERS ANCHOR RODS TO BE MIN 525mm EMBEDDED 10M STIRRUP @ 150mm O/C IN CONC AT FIRST 1000mm FROM EACH PILE AND 300mm O/C IN 10MIL P.E SEALED CONTINUOUS MOISTURE BARRIER (TYP) INTERIOR SI AB 150mm HD40 RIGID INSULATION. 50mm RIGID INSULATION TO BE EXTENDED AWAY FROM THE FOUNDATION FOR MIN 1200mm 50 GRANULAR FILL 150mm **VOID FORM** PILE, PILE CAP AND 4-20M REBARS WELDED ATOP W/

F3 - TYP. SECTION @ MAIN COLUMNS

MIN 3 STIRRUP

2 F2 - TYP. ONE-WAY SLAB SECTION



F3 - TYP. SECTION @ C3 COLUMNS

FOR THE SIZE AND LOCATION OF THE STEEL COLUMNS REFER TO SUPERSTRUCTURE'S SHOP DRAWINGS AND ARCH.
- ANCHOR RODS SHALL BE MINIMUM 525MM LONG FOR THE

EMBEDMENT LENGTH. THESE CAN BE HEADED RODS OR THREADED RODS WITH A HEX NUT ON THE EMBEDDED END. ALL OTHER SPECIFICATIONS SUCH AS NUMBER AND LOCATION FOR THESE RODS AND THE BASE PLATE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S STAMPED SHOP DRAWINGS.

- CONTRACTOR TO CONSIDER MIN 50mm CONCRETE COVER ON T.O. PIPES AT ALL LOCATIONS

- IF CONTROL JOINTS ARE CUT AFTER CONCRETE POUR, CONTRACTOR TO BE AWARE OF CUTTING BURIED PIPES
- CL OF C1, C2, C3 AND THEIR BASE PLATE TO BE ALIGNED WITH CL OF PILES AND GRADE BEAMS BELOW.
- FOR LOCATION OF THE CATCH BASIN REFER TO ARCH & MECH.
 ALL WELDS TO BE 6mm CONTINUOUS FILLET WELDS

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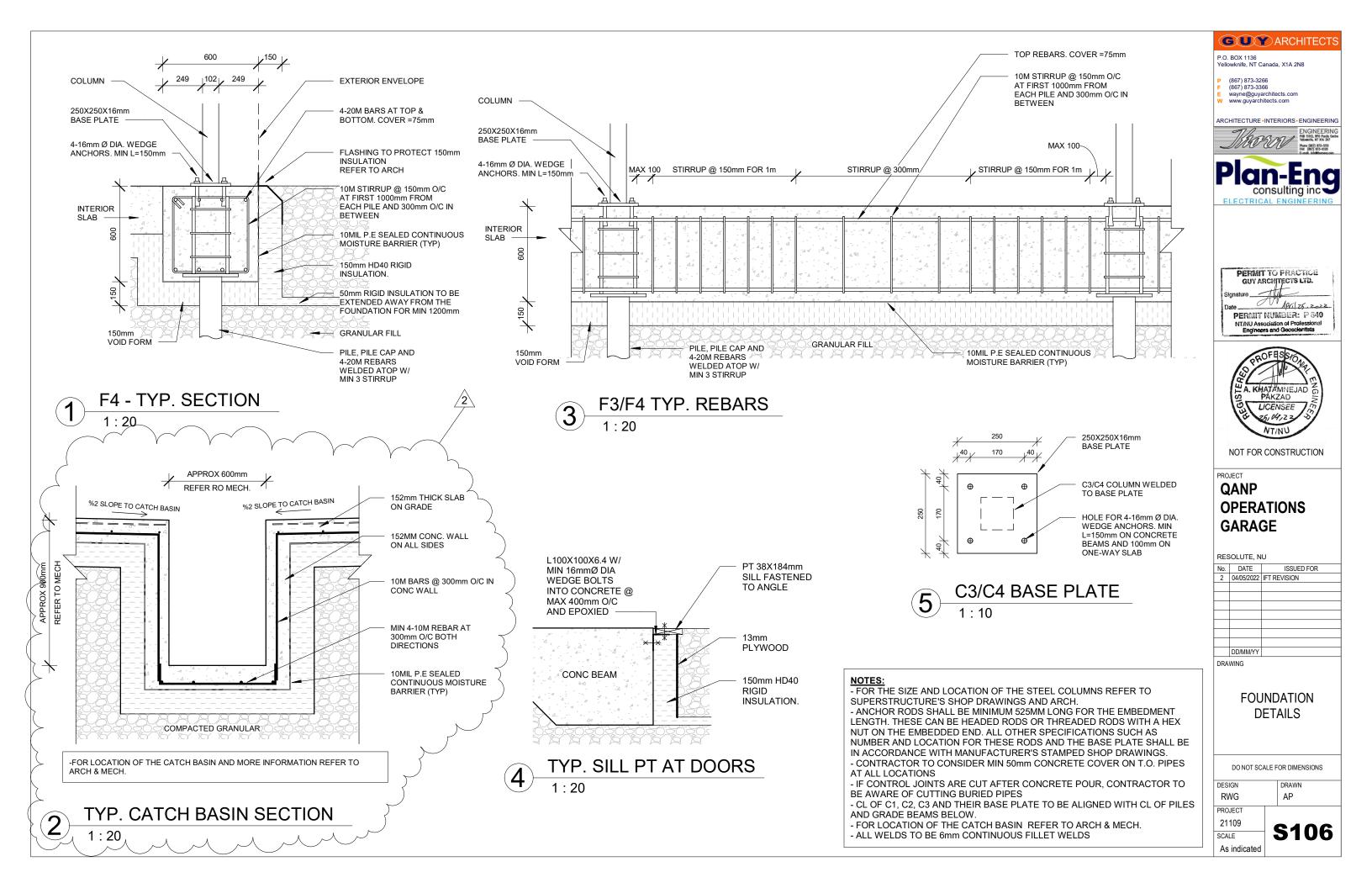
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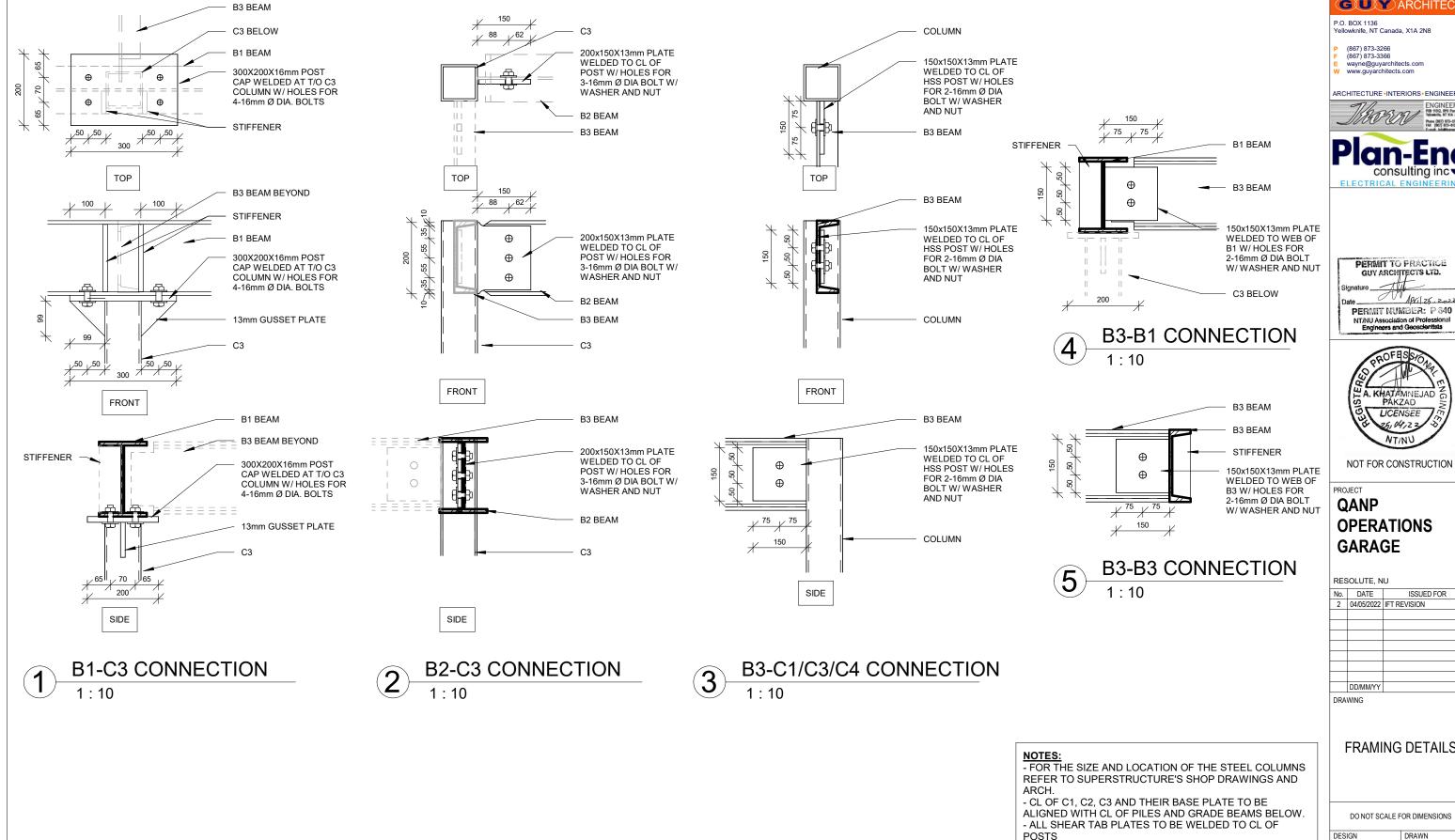
FOUNDATION DETAILS

DO NOT SCALE FOR DIMENSIONS

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GUY ARCHITECTS Yellowknife, NT Canada, X1A 2N8 wayne@guyarchitects.com www.guyarchitects.com ARCHITECTURE • INTERIORS • ENGINEERING PERMIT TO PRACTICE GUY ARCHITECTS LTD. April 25, 2022 PERMIT NUMBER: P 840



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FRAMING DETAILS

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- FOR B3 TO C1 ATTACHMENT AT MID LANDING OF

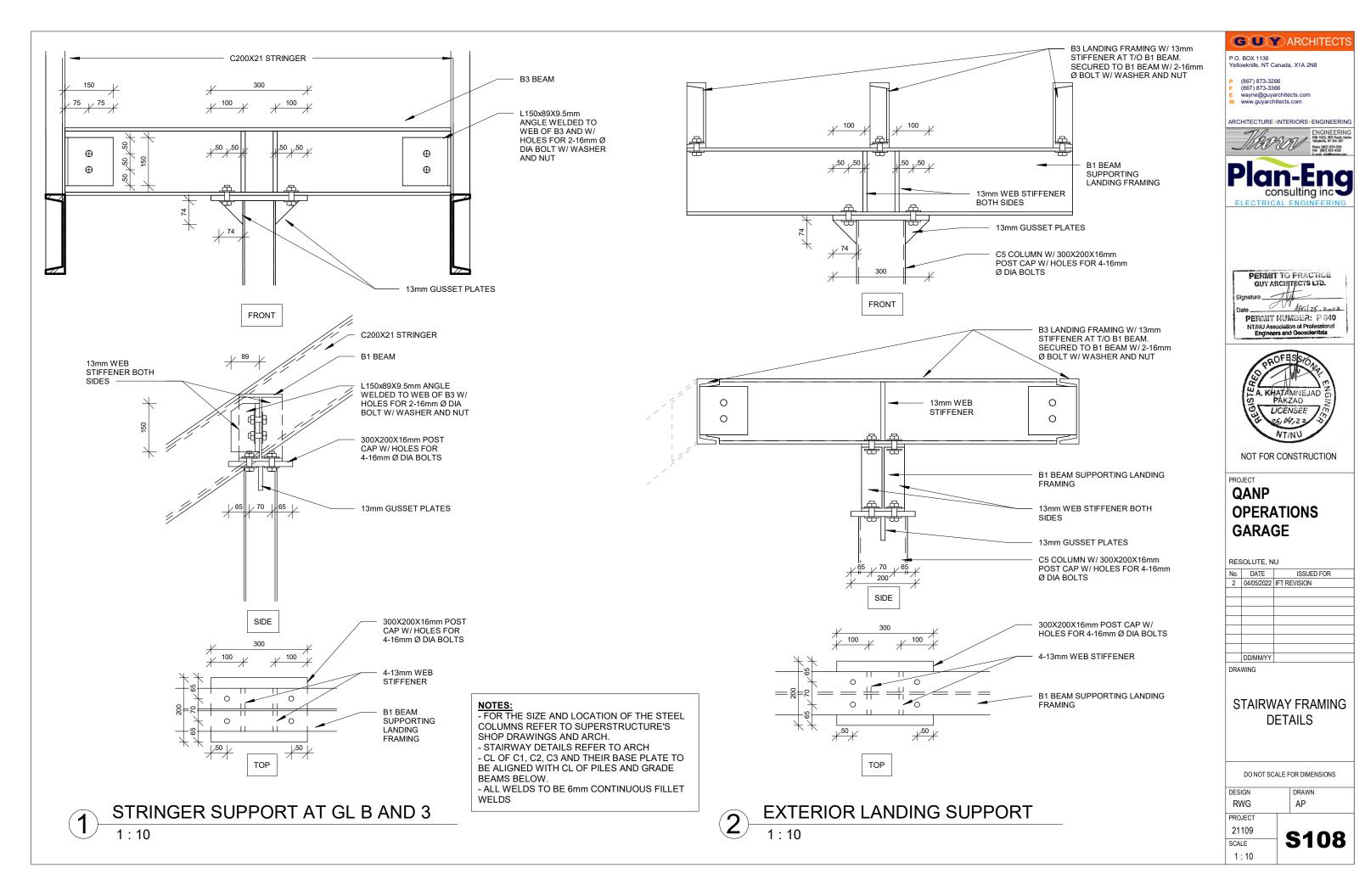
FOR THIS CONNECTION.

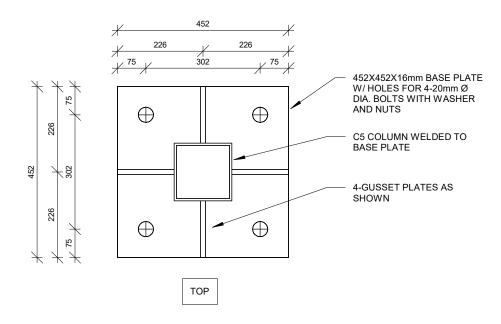
INTERIOR STAIRS, CONTRACTOR TO CONFIRM THE

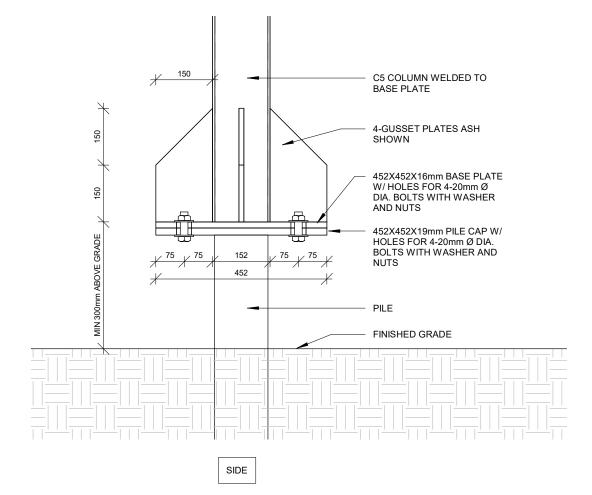
POINT OF ATTACHMENT OF PLATE TO WEB OF THE C1

- ALL WELDS TO BE 6mm CONTINUOUS FILLET WELDS

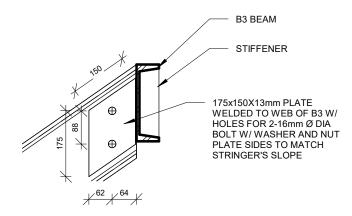
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C5 BASE PLATE



STRINGER TO B3

- FOR THE SIZE AND LOCATION OF THE STEEL COLUMNS REFER TO SUPERSTRUCTURE'S SHOP DRAWINGS AND

- ALL WELDS TO BE 6mm CONTINUOUS FILLET WELDS

GUY ARCHITECTS

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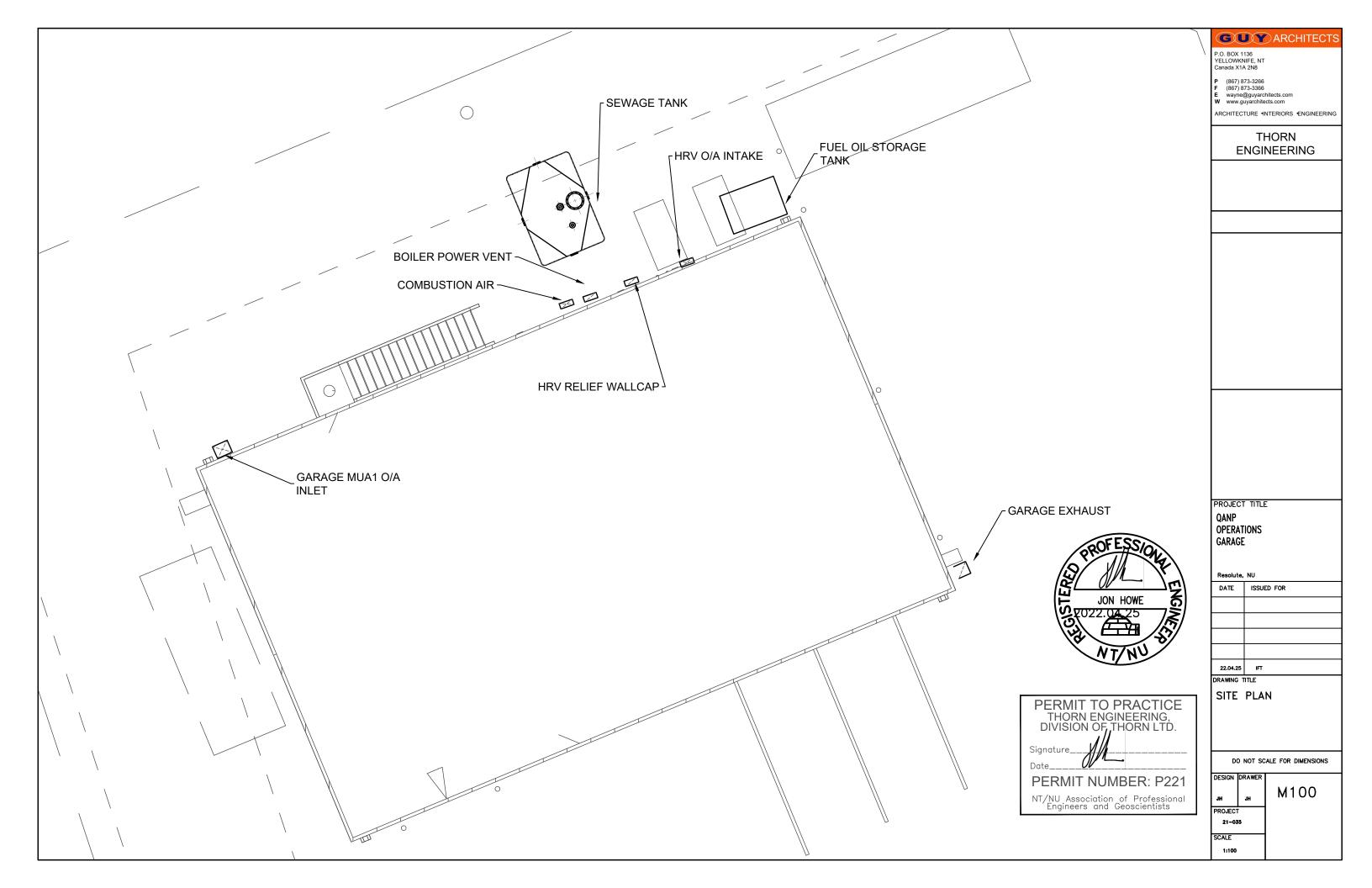
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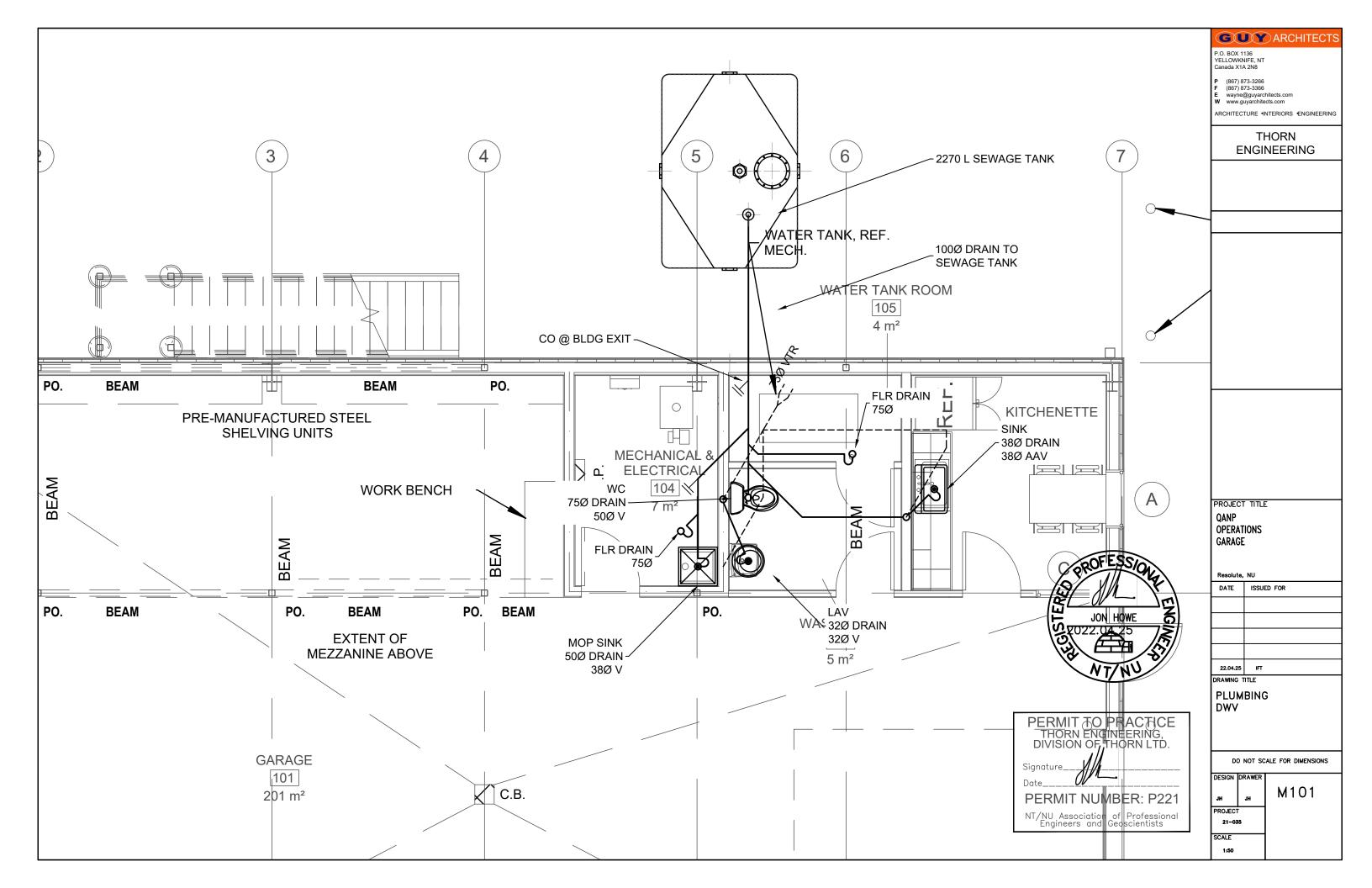
STAIRWAY FRAMING **DETAILS**

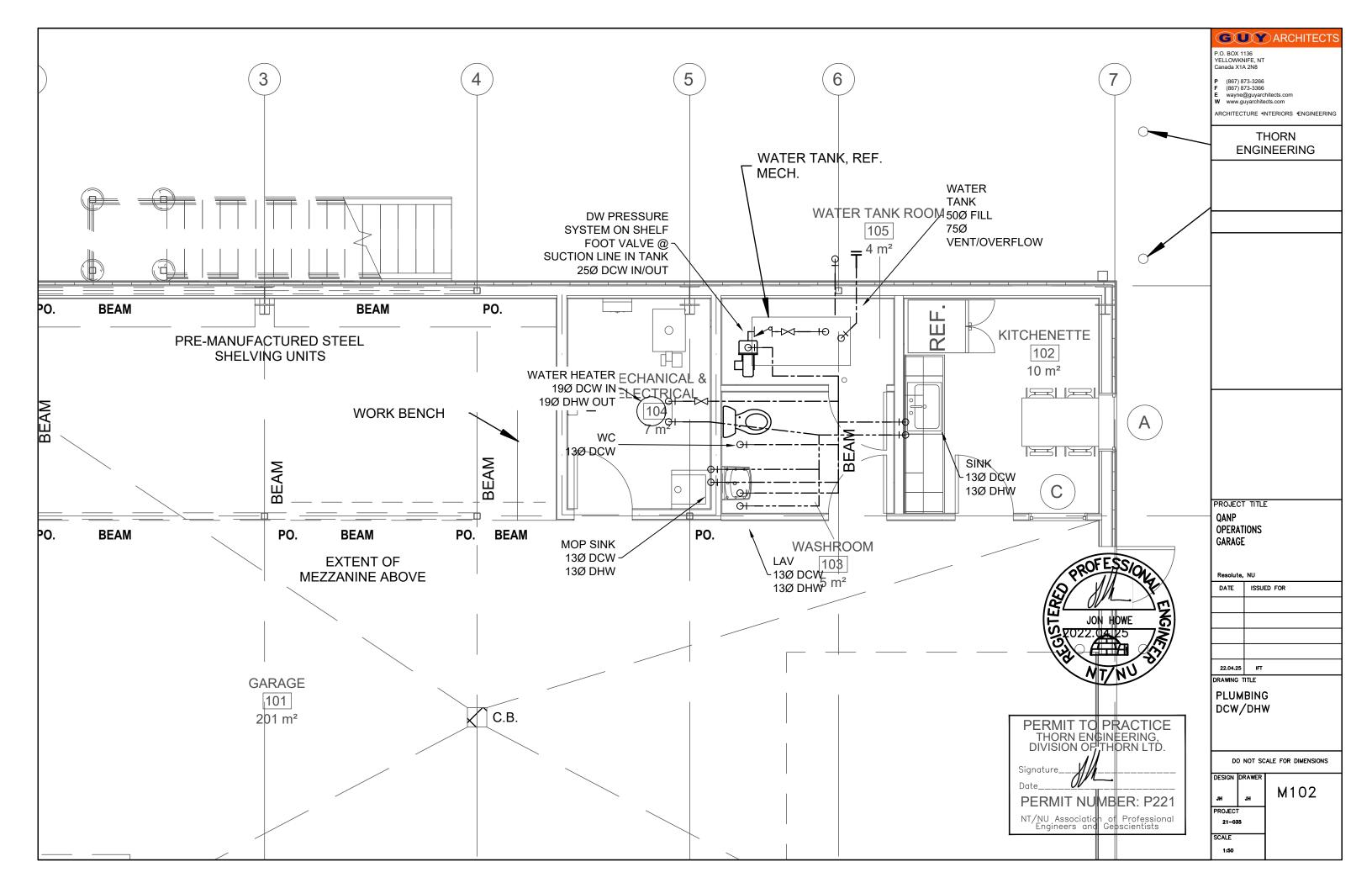
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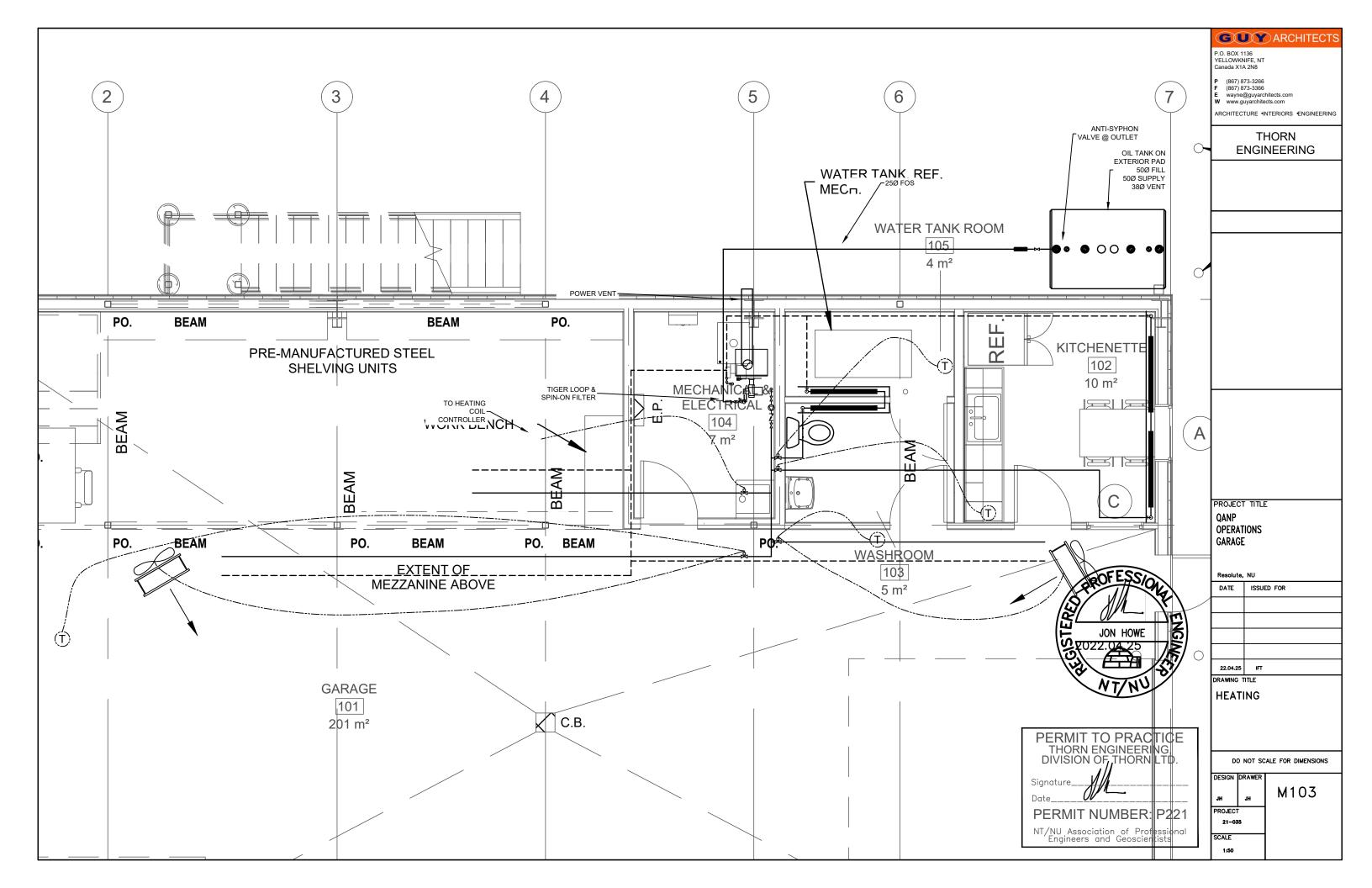
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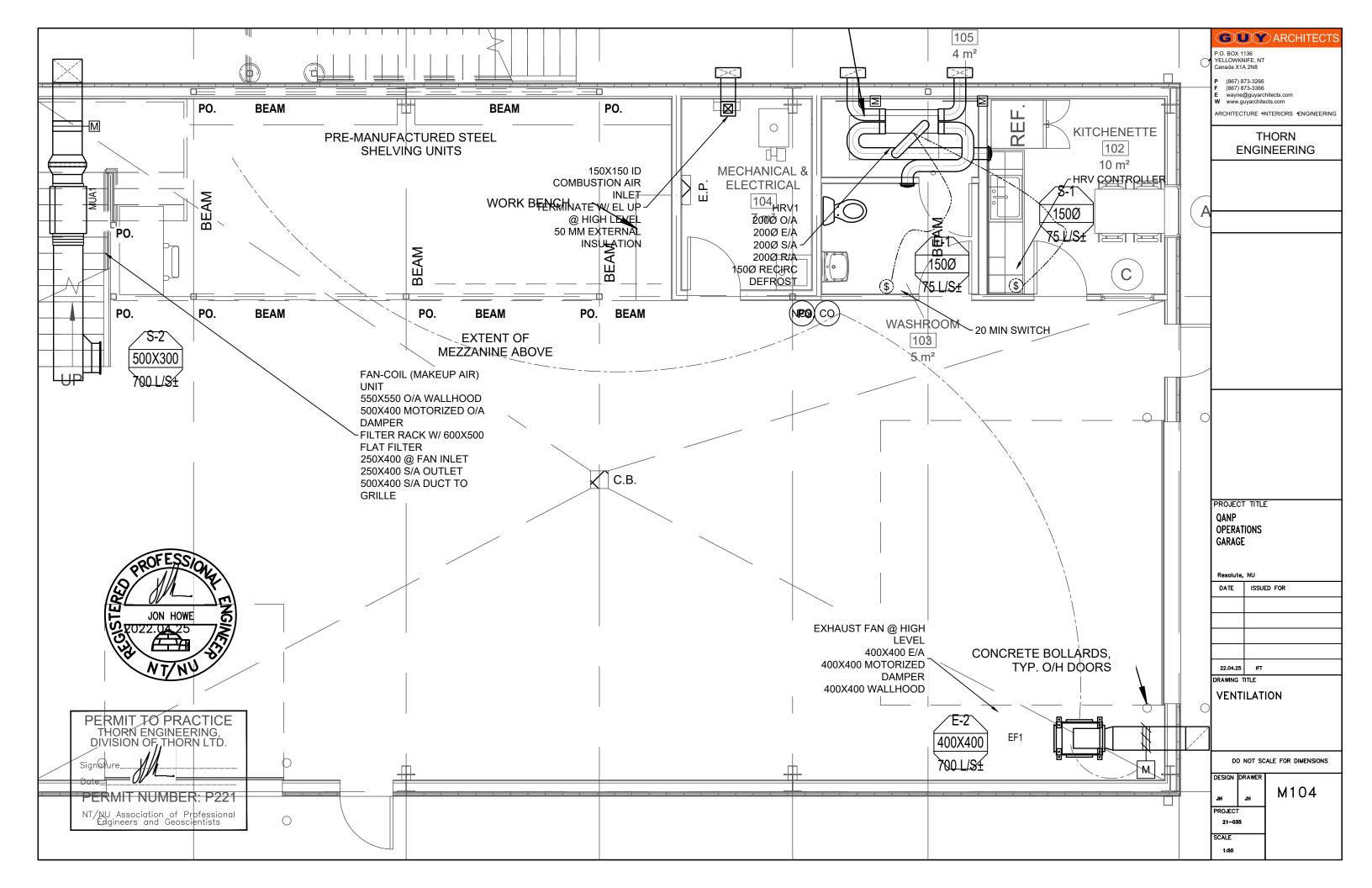
S109 SCALE 1:10

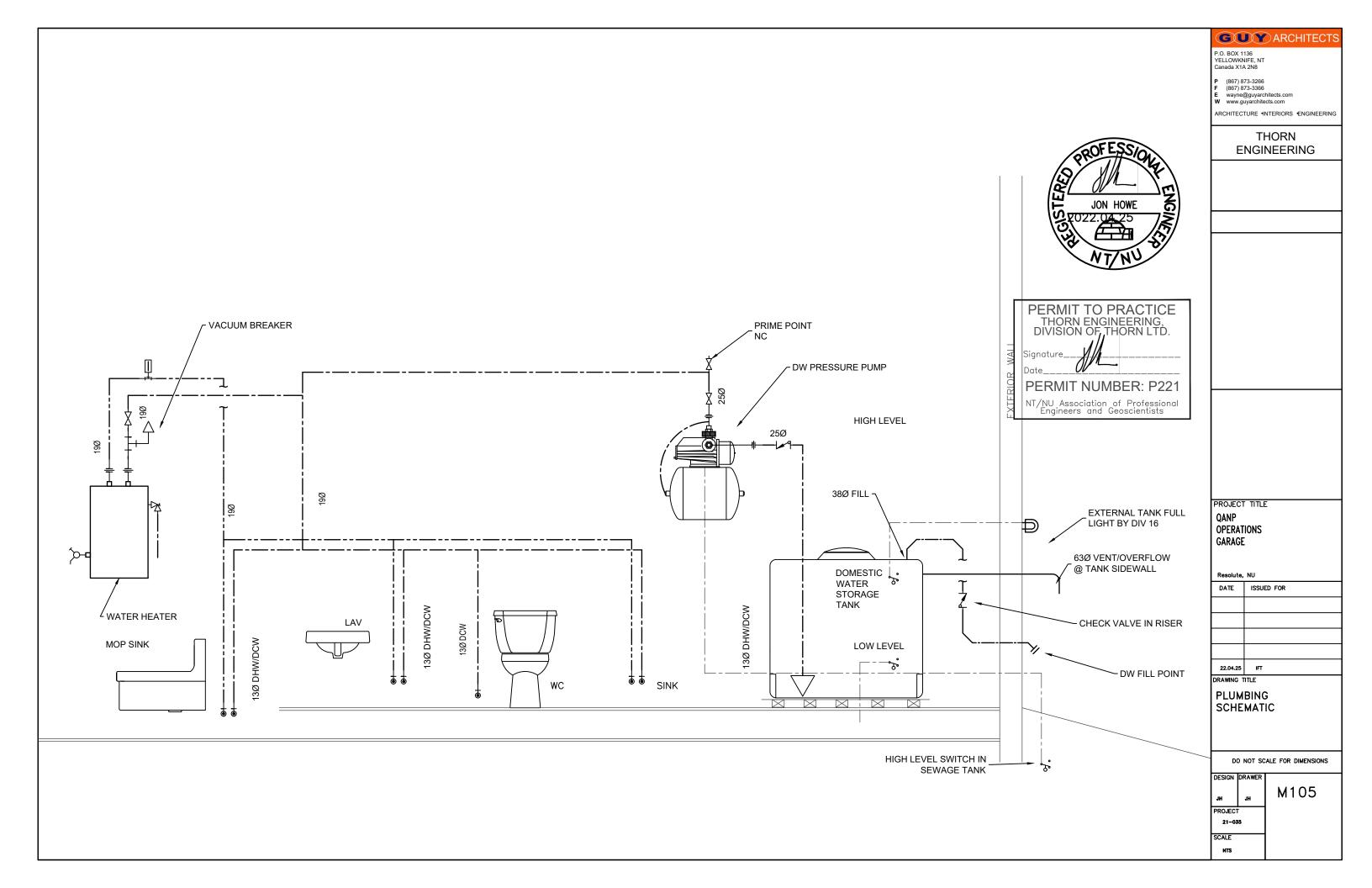


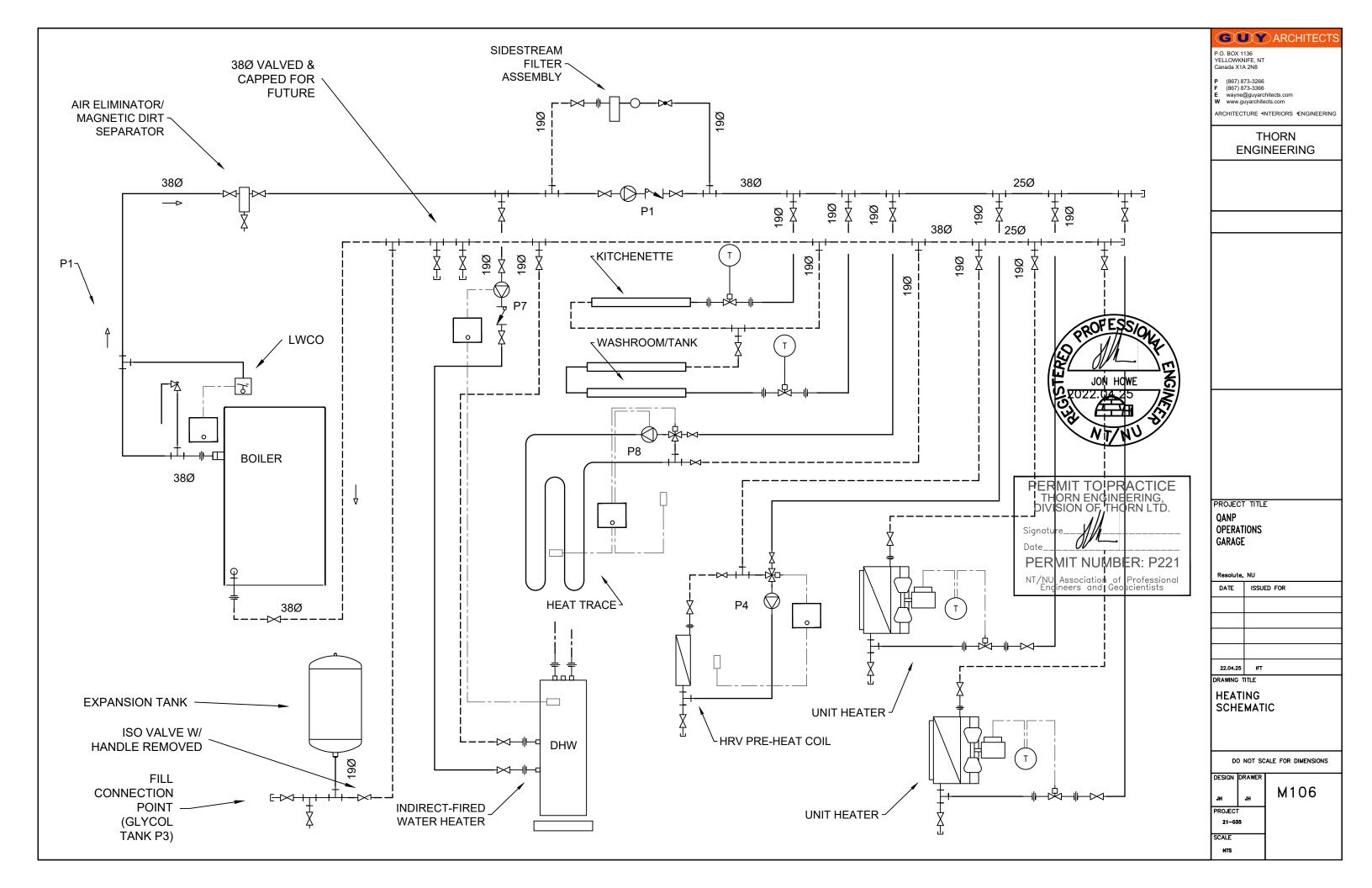


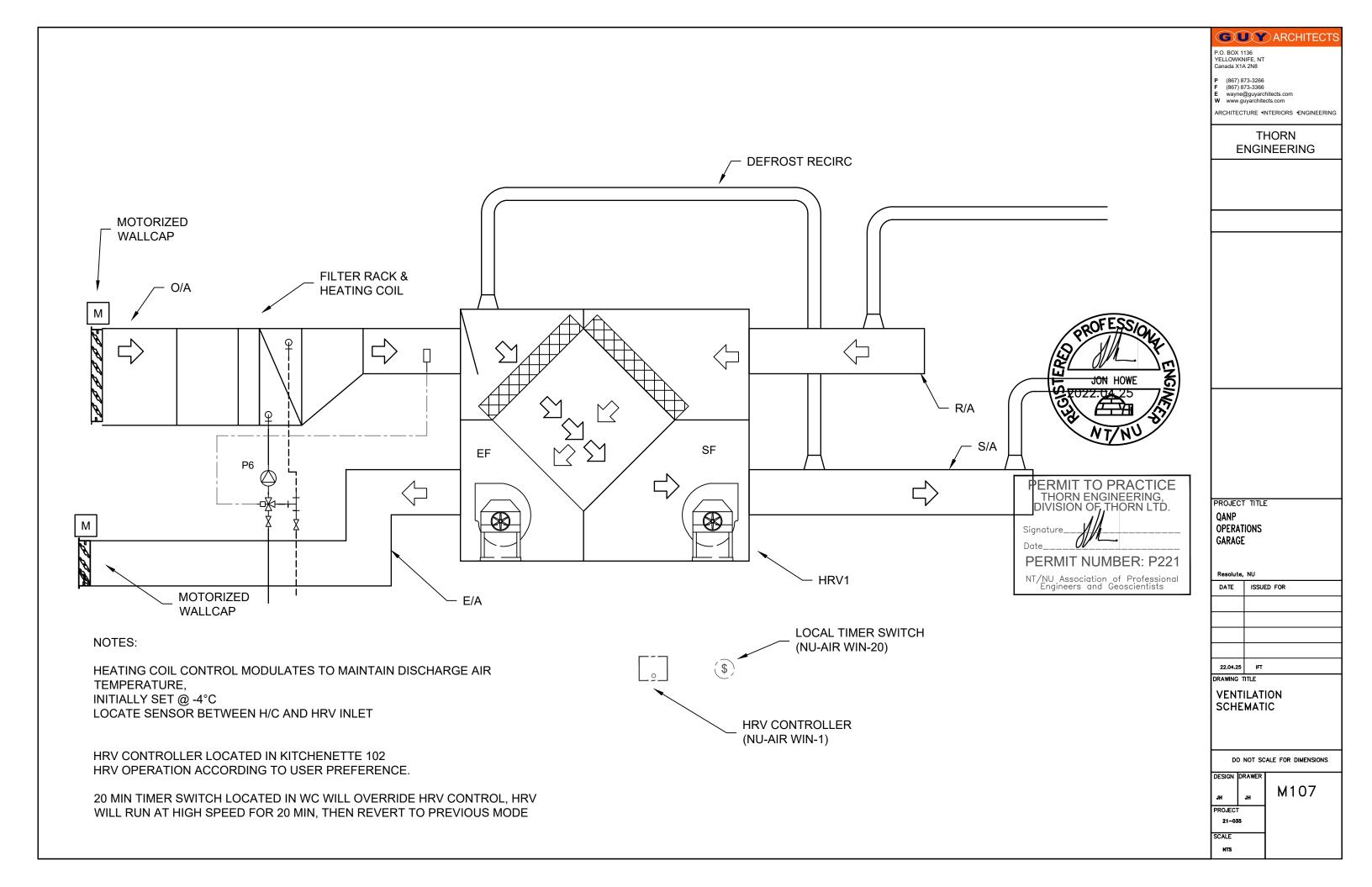


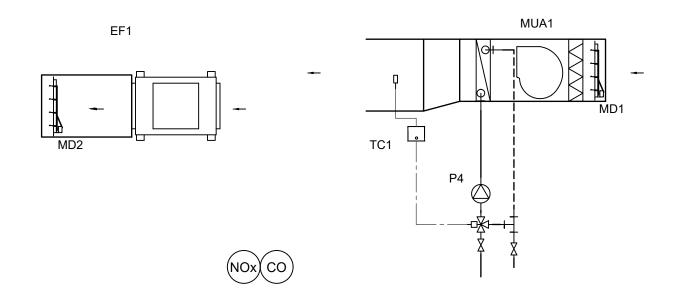








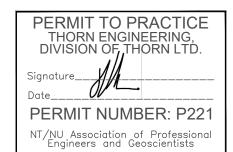




SEQUENCE OF OPERATION

- 1. HEATING COIL 3-WAY VALVE IS CONTROLLED BY TEMPERATURE CONTROLLER TC1. POWER TO CONTROLS AT ALL TIMES.
- 2. HEATING COIL PUMP P4 RUNS CONTINUOUSLY.
- 3. MOTORIZED DAMPER MD1 IS INTERLOCKED WITH MUA1.
- 4. MOTORIZED DAMPER MD2 IS INTERLOCKED WITH EF1.
- 5. HOA SWITCH PERMITS MANUAL OPERATION OF SYSTEM
- 6. IN AUTO MODE, DUAL CHANNEL GAS MONITOR WILL RUN BOTH MUA1 AND EF1 DURING AN ALARM CONDITION
- 7. FANS RETURN TO NORMALLY OFF CONDITION WHEN CONTAMINANT LEVEL DROPS TO BELOW SETPOINT





PROJECT QANP				
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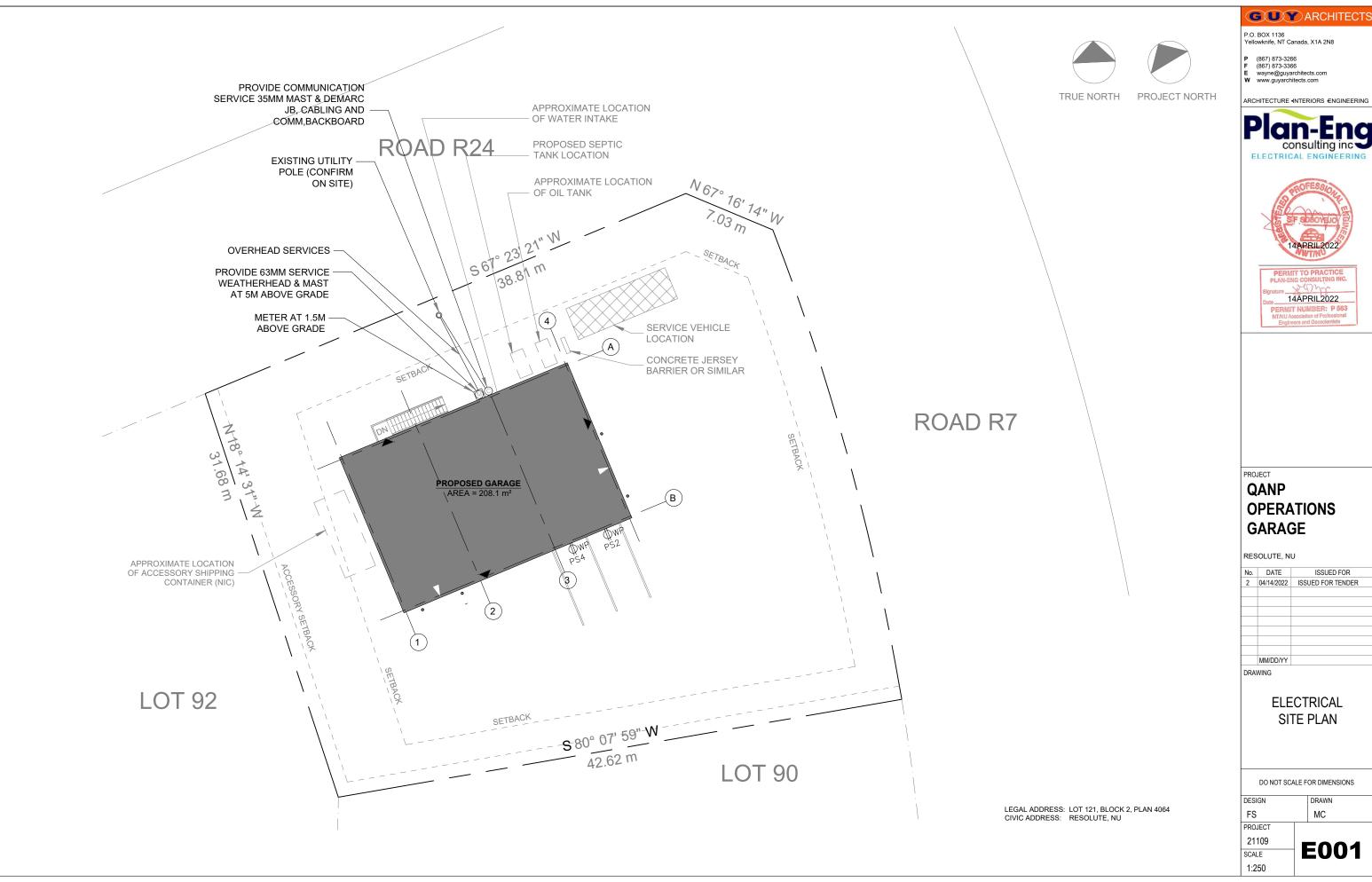
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SPECIFICATIONS & INSTRUCTIONS

THE ELECTRICAL CONTRACTOR SHALL

1.1 MAKE NECESSARY PROVISIONS TO DELIVER A COMPLETE INSTALLATION ACCORDING TO THE CURRENT CANADIAN ELECTRICAL CODE

1.2 NOTE THAT IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO PROVIDE FOR AN ELECTRICAL INSTALLATION COMPLETE AND IN OPERATING CONDITION. IT IS THE RESPONSIBILITTY OF THE CONTRACTOR TO SUPPLY AND INSTALL ALL MATERIAL AND WORKMANSHIP TO ACCOMPLISH THIS ACCORDING TO THE CANADIAN ELECTRICAL CODE AND OTHER RELEVANT CODES, EXCEPT WHERE SPECIFICALY STATED THAT SUCH WORK IS NOT INCLUDED.

1.3 LIAISE WITH LOCAL UTILITY AND ELECTRICAL INSPECTOR ON ACCEPTABLE LOCAL PRACTICES AND PREFERENCES

1.4 OBTAIN ELECTRICAL PERMITS AS REQUIRED BY THE RESPONSIBLE AUTHORITY HAVING JURISDICTION, AND PAY ALL APPLICABLE FEES.

1.5. FULFIL THE REQUIREMENTS HEREIN AS APPLICABLE TO THE PROJECT.

1.6 MAKE SITE VISIT TO INSPECT AND CAREFULLY EXAMINE SITE CONDITIONS TO MAKE NECESSARY PROVISIONS.

1.7 OBTAIN AND UNDERSTAND COMPLETE PROJECT DRAWING PACKAGE INCLUDING - MECHANICAL AND ARCHITECTURAL.

1.8 BEFORE BID SUBMISSION, CONTRACTOR SHALL ASK QUESTIONS TO ENSURE FULL UNDERSTANDING OF THE WORK SCOPE AND CONFIRM ALL REQUIREMENTS ARE COVERED; FAILURE TO DO THIS WILL NOT ALLOW ANY BID PRICE INCREASE.

1.9 BEFORE COMMENCEMENT OF WORK, CONTRACTOR SHALL PRODUCE AND SUBMIT FOR APPROVAL, HIS OWN CONSTRUCTION INSTALLATION DRAWINGS DETAILED BEYOND THE DESIGN DRAWINGS. AND PROVIDE CUT SHEETS. MANUFACTURERS' EQUIPMENT / DEVICE DATA SHEETS. SPECIFICATIONS AND INSTALLATION DIAGRAMS

1.10 BEFORE COMMENCEMENT OF WORK, CONTRACTOR SHALL MEET OR OTHERWISE DISCUSS ANY CONSTRUCTABILITY CONCERNS AND ANY OTHER ASPECTS TO DELIVER A SUSCESSFUL PROJECT

1.11 IN SETTING OUT HIS WORK THE ELECTRICAL CONTRACTOR SHALL OBTAIN, UNDERSTAND AND MAKE REFERENCE TO THE ARCHITECTURAL,

STRUCTURAL AND MECHANICAL DRAWINGS. AND SHALL CONSULT WITH OTHER TRADES TO AVOID CONFLICTS 1.12 LIAISE WITH MAIN CONTRACTOR AND MECHANICAL CONTRACTOR AND OTHERS ON SCHEDULING THE ELECTRICAL WORK TO AVOID DELAYS,

AND REPEAT WORK 1.13 CONTRACTOR SHALL LIAISE WITH UTILITY AND SERVICE PROVIDERS FOR POWER AND COMMUNICATION HOOKUP: AND PAY APPROPRIATE

FEES. OWNER PROCURES COMMUNICATION SERVICES BY OTHERS. 1.14 CONTRACTOR SHALL DISPOSE WASTE MATERIAL IN ACCORDANCE WITH LOCAL ENVIRONMENTAL REGULATIONS.

1.15 INSTALLATION EQUIPMENT, DEVICES AND MATERIALS SHALL BE NEW AND CSA - APPROVED.

1.16 BEFORE COMMENCEMENT ENSURE THAT ONLY QUALIFIED ELECTRICAL WORKERS - JOURNEYMAN AND APPRENTICE WITH PROVINCIAL OR TERRITORIAL REGISTRATION - SHALL WORK ON THE PROJECT, AND SUBMIT PHOTOCOPY OF THEIR TICKETS; INCLUDING EVIDENCE OF FIRE ALARM MODULE OR ENDORSEMENT ON THEIR TICKET OF THE FIRE ALARM SYSTEM INSTALLER. WHERE APPLICABLE.

1.17 COMPLY WITH THE CURRENT CANADIAN ELECTRICAL CODE, STANDARD LOCK OUT TAG OUT PROCEDURE AND ELECTRICAL WORKPLACE SAFETY STANDARD CSA Z462

2. UTILITY SERVICE

2.1 PROVIDE UTILITY OVERHEAD SERVICE WEATHERHEAD FROM NEAREST UTILITY POLE, SERVICE OVERHEAD TO THE ELECTRICAL ROOM AS SHOWN IN THE SCHEMATIC

2.2 THE SERVICE IS RECEIVED THROUGH SERVICE MAST AND EXTERIOR SERVICE METER ON THE EXTERIOR WALL OF THE ELECTRICAL ROOM.

2.3 PANEL A AND PANEL EM ARE SURFACE-MOUNT

2.4 CONTRACTOR SHALL MAKE ALL NECESSARY PROVISIONS INCLUDING BASE FOR EXTERNAL WEATHERPROOF METER INSTALLATION

2.5 ANY OVERHEAD LINE PORTION OF THE SERVICE SHALL BE RUN TO AVOID HAZARDS ACCORDING TO C.E.C 6-112, AND ENSURE NECESSARY CLEARANCE FROM ADJACENT STRUCTURES, FUEL STORAGE TANKS. ETC

3. POWER DISTRIBUTION

3.1 THE SERVICE AND MAIN DISTRIBUTION PANELBOARD 'A' SURFACE - MOUNTED AS SHOWN

3.2 THE UTILITY METER SHALL BE THE EXTERIOR TYPE

3.3 PANELBOARD AND PANEL FEEDER SHALL BE FIRMLY INSTALLED SURFACE-MOUNTED

3.4 PANELBOARD WITH PUSH-IN BREAKERS AND LOCKABLE DOOR SHALL BE COMMERCIAL SPEC GRADE; LOAD AND SPARE BREAKERS AS IN THE PANEL SCHEDULE SHALL BE PROVIDED.

3.5 IN THE MECHANICAL ROOM, FROM THE SUB-PANEL CONTRACTOR SHALL RUN FEEDER CABLES TO THE RESPECTIVE LOADS AS PER MOTOR LIST AND CONTROL SCHEDULE. CONTRACTOR SHALL LIAISE WITH MECHANICAL CONTRACTOR AND ENGINEER ACCORDINGLY.

3.6 MECHANICAL LOADS FEEDER CABLES SHALL BE RW90 IN EMT CONNECTED THROUGH JUNCTION BOXES AND FINAL TERMINATION ON TO EQUIPMENT WITH AC90. USE VAPOUR-TIGHT RACEWAY AND BOXES IN DAMP AND VAPOUR ENVIRONMENT

3.7 POWER UTILIZATION EQUIPMENT SHALL BE PROVIDED POWER RECEPTACLE OR TERMINATION POINTS AS CLOSE AS POSSIBLE, AND AS PER CODE

3.8 THERE SHALL NOT BE MORE THAN 12 LIGHTING OR POWER OUTLETS ON A BRANCH CIRCUIT.

3.9 AS MAY BE APPLICABLE. PROVIDE ON SEPARATE BRANCH CIRCUIT AND INSTALL HEAT TRACE ON THE WASTE PIPES FROM THE WASHROOMS TO THE SEWAGE TANK: ENSURE COMPETENT INSTALLER CARRIES OUT HEAT TRACE INSTALLATION USING SELF-REGULATING HEAT TRACE CABLE FROM REPUTABLE MANUFACTURER. CONSULT MANUFACTURER ON THE MATERIAL APPLICATION AND FOLLOW THEIR INSTRUCTIONS.

3.10 MINIMUM BRANCH CIRCUIT CONDUCTOR SHALL BE #12AWG:

3.11 NO ELECTRICAL DEVICE, SWITCH, RECEPTACLE, ETC SHALL BE INSTALLED WITHIN 300MM ABOVE FINISHED FLOOR LEVEL IN THE PARKING GARAGE

3.12 PROPER MEASURE MUST BE TAKEN TO ACHIEVE EFFECTIVE SYSTEM AND EQUIPMENT GROUND AS PER CODE. GROUND RESISTANCE MEASUREMENT SHALL BE SUBMITTED TO THE ENGINEER

3.13 ALL METAL ENCLOSURES SHALL BE BONDED TO THE SYSTEM GROUND. SEE SECTION E5 GOOD BUILDING PRACTICE FOR NORTHERN **FACILITIES**

3.14 PANEL, PANELBOARD, CABLE AND DEVICE <u>IDENTIFICATION</u> SHALL BE AS ALLOWS:

3.15.1 PANELBOARD IDENTIFICATION SHALL BE: BLACK LAMACOID PLATE WITH WHITE LETTERING

A. 9.5MM FONT LETTERS FOR MAIN SERVICE DISTRIBUTION PANELS

B. 6MM FONT LETTERS OR SPLITTER BOXES, PANELBOARDS, DISCONNECT SWITCHES, ETC

SHOWING EQUIPMENT/LOAD NAME/ID NUMBER, VOLTAGE, PHASE, CURRENT, POWER, AND SOURCE (E.G. FED FROM....), AND CIRCUIT NUMBER AS MAY BE APPLICABLE.

3.16.2 CABLE IDENTIFICATION SHALL BE 3MM OR READABLE FONT LETTERS / NUMBERS MARKED ON LABEL SLEEVES FOR CABLES, AND SAME SHOWN ON REDLINES /AS-BUILT

3.16.3 PANEL SCHEDULE / CIRCUIT CARD SHALL BE FILLED ACCURATELY: THE CARD SHALL BE IN PROTECTIVE PLASTIC SLEEVE AFFIXED INSIDE THE PANEL DOOR

4.1 ALL LIGHTS SHALL BE LED INSTALLED WITH GROUND CONNECTION.

4.2 GENERAL INDOOR LIGHTING SHALL LED FIXTURES

4.3 WAREHOUSE LIGHTING SHALL BE CHAIN OR PIPE - SUSPENDED

4.4 INDOOR LIGHTING SHALL BE CONTROLLED WITH LOAMP 120V COMMERCIAL GRADE LIGHT SWITCHES: IN WASHROOMS AND STORAGE. SPECIFIED OCCUPANCY SENSORS SHALL BE

4.5 EXTERIOR LIGHTING FIXTURES SHALL BE LED (LIGHTING EMITTING DIODE) WEATHERPROOF TYPE

4.6 EXTERIOR LIGHTING SHALL HAVE INTEGRAL PHOTOCELL
4.7 ALL EXTERIOR LUMINAIRES SHALL BE VANDAL-PROOF AND WEATHERPROO

4.8 EXTERNAL FIXTURE SHALL BE WALL-MOUNTED AT A HEIGHT AS PER ARCHIECTURAL ELEVATION

4.9 EXTERIOR LIGHTING SHALL BE ON SEPARATE BRANCH CIRCUIT.
4.10 LIGHT SWITCHES AND RECEPTACLES SHALL BE COMMERCIAL SPEC GRADE, IVORY COLOUR

4.12 EMERGENCY LIGHTING BATTERYPACK AS PER CSA C22.2 NO. 141-M STANDARD, SHALL BE PROVIDED AS SHOWN ON DRAWING, AND CONNECTED TO THE CIRCUITOF THE LIGHT IN

4.13 EMERGENCY LIGHTPACKS SHALL BE 120V INPUT TYPE WITH 12V OUTPUT AND 30-MINUTE NI-CD BATTERY PACK WITH AUTO-EST FEAURE.

4.15 EXIT SIGN MAYBE STANDALONE OR IN COMBINATION UNIT WITH EMERGENCY LIGHTPACK WITH 2 ADJUTABLE REMOTE 5W LED LAMP HEADS. AS SPECIFIED FOR DESIGNATED

4.16 STANDALONE EMERGENCY LIGHTPACK SHALL BE LUMACELL RG6 WITH TWO ADJUSTABLE LIGHT HEADS 2 X5W, WITH ASSOCIATED SINGLE OR DOUBLE REMOTE EMEGENCY LIGHT

4.17 EMERGENCY LIGHT SHALL BE ON SIMPLEX RECEPTACLE 120V INSTALLED AT 2.5M AFF

5. GAS DETECTOR & MECHANICAL SERVICE ALARM, CONCRETE PILE THERMISTOR MONITORING

5.1 PROVIDE 120V HARD-WIRED CARBON MONOXIDE AND NITROUS OXIDE SMOKE DETECTOR / ALARM IN GARAGE HALL AND MECHANICAL ROOM ON SEPARATE BRANCH CIRCUIT BREAKER WITH LOCK-ON DEVICE

5.2 SEE MECH DRAWING AND LIAISE WITH MECHANICAL CONTRACTOR

5.3 PROVIDE WATER FILL AND SEWAGE FILL INDICATOR LIGHTS ALONG WITH FLOAT / LEVEL SWITCHES; COORDINATE WITH MECHANICAL CONTRACTOR.
5.4 PROVIDE AUTO-DIALER FOR COMMUNICATION OF BUILDING LOW TEMPERATURE MECHANICAL ALARM AND GAS DETECTION ALARM CONDITION TO DESIGNATED RESPONDER'S TELEPHONE NUMBERS; LIAISE WITH OWNER FOR THE PROVISION OF DESIGNATED TELEPHONE LINE BY OTHERS; MESSAGE

'DANGEROUS MECHANICAL CONDITION EMERGENCY'

6 DOWED DECEDIACIES

6.1 DIRECT FEED POWER OUTLET BRANCH CIRCUITS MAY HAVE 2-POLE OR 1-POLE CIRCUIT BREAKER PROTECTION; VERIFY PANEL SCHEDULE DRAWING, OR AS MAY BE REQUIRED. 6.2 RECEPTACLES SHALL BE COMMERCIAL SPEC GRADE, IVORY COLOUR
6.3 THE VEHICLE BLOCK HEATER RECEPTACLE SHALL BE REGULAR RECEPTACLE, AND INSTALLED ABOVE SNOW LEVEL TYPICAL OF THE ENVIRONMENT BUT NOT LOWER THAN 1M

GRADE.

6.4 RECEPTACLE TYPES AS ON THE DRAWING SHALL BE ON REGULAR 120V 15A BRANCH CIRCUIT OR DIRECT FEED; COMMERCIAL GRADE DUPLEX RECEPTACLE, OR SIMPLEX FOR EMERGENCY LIGHTPACK.

6.6 NO ELECTRICAL DEVICE, SWITCH, RECEPTACLE, ETC SHALL BE INSTALLED AT 450MM ABOVE FINISHED FLOOR LEVEL
6.6 NO ELECTRICAL DEVICE, SWITCH, RECEPTACLE, ETC SHALL BE INSTALLED BELOW 450MM AFTER FINISHED FLOOR LEVEL IN THE VEHICLE MAINTENANCE HALL.

6.7 VEHICLE BLOCK HEATER BRANCH CIRCUIT SHALL BE RUN DIRECT FROM PANELBOARD AND WITHOUT JOINT; RECEPTACLE SHALL BE WEATHERPROOF SEALED COVER TYPE 6.8 PROVIDE AS SHOWN, CEILING-MOUNTED 10M COILED-UP RETRACTABLE RECEPTACLE EXTENSION REEL WITH LATCH BUTTON / CLUTCH- 15A, 120V WITH 3 OUTLETS

7 COMMUNICATION

7.1 PROVIDE SERVICE FROM COMMUNICATION UTILITY FROM THE ADJACENT POLE TO WEATHERHEAD AND 5M RIGID MAST ON THE BUILDING, INCLUDING DEMARC JUNCTION BOARD AND WIRING TO COMMUNICATION BACKBOARD IN THE ELECTRICAL ROOM. ALLOW FOR NECESSARY UTILITY AND ALL RELEVANT CHARGES 7.2 PROVIDE CAT - 6 ETHERNET CABLE HOME RUN TO 8-PORT ETHERNET PATCH PANEL MOUNTED ON COMMUNICATION BACKBOARD

1m (W) x 1.2m (H) IN THE ELECTRICAL ROOM.

7.3 PROVIDE COMMUNICATION 1Mx1.2M BACKBOARD AND 2 DUPLEX 120V 15A POWER RECEPTACLES FOR MODEMS, ROUTERS, ETC

7.4 PROVIDE CAT- 6 ETHERNET PORTS AS SHOWN

7.5 ENSURE EFFECTIVE GROUNDING, WITH BONDING TO SYSTEM GROUND BAR IN THE ELECTRICAL ROOM: PROVIDE FIRE-RATED WEATHERPROOF CAULKING.

8. GENERAL

8.1 ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING AT HIS OWN EXPENSE ALL WORK CONTRARY TO THE INTENT OF THESE SPECIFICATIONS OR THE CODES, 8.2 THIS DOES NOT REPRESENT A PERFECT DOCUMENT. CONTRACTOR SHALL OBTAIN ENGINEER'S CLARIFICATION OF THE INTENT OF THE DRAWINGS AND SPECIFICATIONS ON AMBIGUITIES, CONFLICTS, REAL OR PERCEIVED ERROR OR OMISSION, IF ANY.

8.3 CLIENT RESERVES THE RIGHT TO PROCURE ANY MATERIAL OR SPECIALIZED SERVICES FROM OTHERS. 8.4 THE PANELBOARD LAYOUT IS BASED ON PROPOSED EQUIPMENT RATINGS; BASED ON INSTALLED EQUIPMENT ACTUAL RATING, CONTRACTOR SHALL REARRANGE BRANCH CIRCUITS

8.5 CONTRACTOR SHALL SUBMIT A REPORT LISTING GROUND (BURIED ELECTRODE) RESISTANCE, AND FOR EACH PANEL, INSULATION RESISTANCE BETWEEN PHASE AND GROUND VOLTAGES AS WELL AS PHASE AND NEUTRAL CURRENTS ON PANELBOARDS, AND MOTOR CONTROL CENTRES OPERATING UNDER NORMAL LOAD AT THE TIME OF ACCEPTANCE AND

STATE THE TIME AND DATE 8.6 WHERE THERE IS LOFT SPACE / ROOM FOR AIR HANDLING UNIT OR EXHAUST FANS, CONTRACTOR SHALL PROVIDE 1'X 4' LED WITH DIFFUSER, SURFACE- MOUNTED FIXTURE, MOTION-SENSOR SWITCH, HEAT DETECTOR, AND WITH AC90 FEEDER CABLE FROM PANELBOARD PROVIDE SUITABLE POWER-POINT FOR THE EQUIPMENT. THE EQUIPMENT SHALL HAVE

DISCONNECT SWITCH; ELECTRICAL CONTRACTOR SHALL LIAISE WITH MECHANICAL CONTRACTOR.

8.7 ELECTRICAL CONTRACTOR SHALL OBTAIN ALL ELECTRICAL PERMITS AND SHALL UPON COMPLETION FURNISH THE ENGINEER AND ARCHITECT A CERTIFICATE OF FINAL INSPECTION FROM THE INSPECTION AUTHORITY HAVING JURISDICTION.

8.8 CONTRACTOR SHALL PROVIDE FOR ELECTRICAL CABLES, WIRES, RACEWAYS THAT PENETRATE FIREWALL OR A HORIZONTAL FIRE SEPARATION WITH FIRE RESISTANCE RATING IN ACCORDANCE WITH NEPA ARTICLE 3.2.1.2 TO BE SEALED AT THE PENETRATION BY A FIRE STOP SYSTEM WHICH UPON TESTING AS PER CAN4-S115-M STANDARD METHOD FOR TESTS OF FIRE STOP SYSTEM SHALL HAVE AN FT RATING NOT LESS THAN THE FIRE RESISTANCE RATING OF THE FIRE SEPARATION.'

8.9 CONTRACTOR SHALL PROVIDE MAINTENANCE SPAREPARTS LIST AND SUPPLY AS PER RELEVANT PART OF SECTION E2 OPERATION AND MAINTENANCE, SUBSECTION 2.3 OF THE

GOOD BUILDING PRACTICE FOR NORTHERN FACILITIES. 8.10 CONTRACTOR SHALL INCLUDE IN HIS TENDER THE COST OF PROVIDING AND FULFILLING1(ONE) YEAR WARRANTY OBLIGATIONS, SUBJECT TO THE PROVISIONS OF THE MAIN

CONTRACT

8.11 CONTRACTOR SHALL INCLUDE IN HIS TENDER, PERMIT FEES AND CHARGES FOR LOCAL UTILITY REVIEW OF ELECTRICAL PLANS

8.12 BEFORE INTERIM ACCEPTANCE OF THE WORK AT SUBSTANTIAL COMPLETION, CONTRACTOR SHALL REMOVE ALL CONTRRUCTION DUST AND DEBRIS, CLEAN OUT ALL CABINETS WITH VACUUM OR COMPRESSED AIR, WIPE ALL INSULATORS CLEAN, CLEAN ALL LUMINAIRES WITH VACUUM OR DRY CLEAN RAGS.
8.13 CONTRACTOR SHALL UPON COMPLETION SUBMIT TESTING / COMMISSIONING RECORDS, IN 2 COPIES EACH OF - PRINTS AND CD-ROM OF AS-BUILT DRAWINGS AND EQUIPMENT&

DEVICE O&M MANUALS 8.14 IN CASE OF CLASH OF LOCATION OF DEVICES, PRECEDENCE GOES TO MECHANICAL DEVICES, NEXT IS POWER, BEFORE OTHER DEVICES. REFER ISSUES TO THE ENGINEER OR

8.15 DRAWINGS ARE NOT TO SCALE; INSTALLATION LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL USE PHYSICAL MEASUREMENTS AND EXERCISE JUDGEMENT IN PROPER MOUNTING OF DEVICES. IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE

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PERMIT TO PRACTICE 14APRIL2022 RMIT NUMBER: P 563
NU Association of Professional

PROJECT

QANP OPERATIONS GARAGE

RESOLUTE, NU

No.	DATE	ISSUED FOR
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DRAWING

DESIGN

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ELECTRICAL SPECIFICATIONS AND **INSTRUCTIONS**

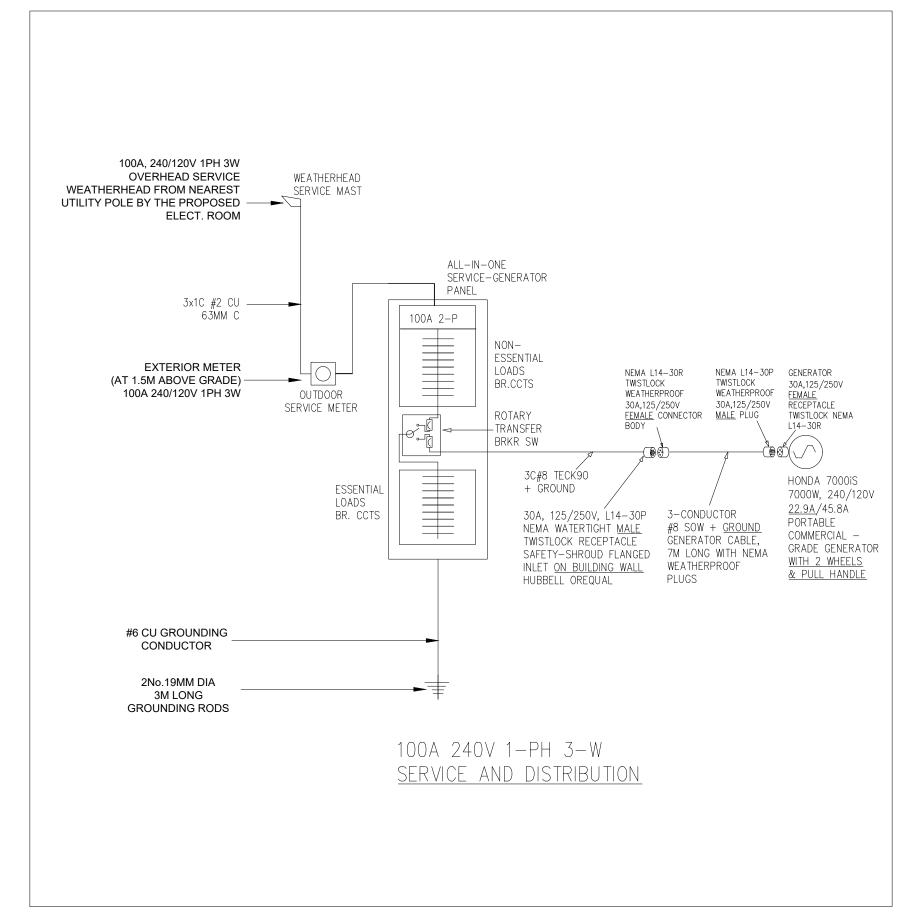
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SYMBOL LEGEND $2' \times 4'$ LED LUMINAIRE RATED FOR COLD WEATHER WITH (-40°C). 1' x 4' LED LUMINAIRE. CUTOFF LED WALL-MOUNT LUMINAIRE DIE-ALUMINUM WEATHERPROOF HOUSING AND INTEGRAL PHOTOCELL, DARK SKY COMPLIANT, 3500K, 3532 LUMENS. 50W,120V;COOPER LIGHTING: XTOR5A-N.PC1; WALL MOUNTED LINE VOLTAGE SWITCH.3 3 WAY SWITCH ⊕OS LIGHT SWITCH WITH OCCUPANCY SENSOR WALL MOUNTED EMERGENCY BATTERYPACK 44W 120V IN 12V OUT c/w TWO REMOTE HEADS 2X4W LED FLUSH MOUNTED EMERGENCY REMOTE TWIN HEAD WITH LAMP 12V 5-WATT MR16 LED 580.0093-L 1 OR XENON T3 1/4 LAMP 6V 6 -WATT 570.0213-L LUMACELL WALL MOUNTED GREENMAN RUNNING LED EXIT SIGN C/W BATTERY BACKUP CW COLD WEATHER RATED FOR -40°C NL WALL MOUNTED 30A, 125/250V, L14-30P \bigcirc NEMA WATERTIGHT MALE TWISTLOCK RECEPTACLE \oplus WALL MOUNTED DUPLEX RECEPTACLE. \rightleftharpoons G GFI DUPLEX RECEPTACLE, 15A, 120V USB WALL MOUNTED DUPLEX RECEPTACLE c/w INTEGRAL USB CHARGING PORTS / COVER WALL MOUNTED WEATHERPROOF DUPLEX RECEPTACLE ₩P c/w IN-USE HEAVY DUTY COVER ₩. GFI T-SLOT DUPLEX RECEPTACLE, 20A, 120V VEHICLE PROGRAMMABLE IPLC RECEPTACLE 120 V ₩٧ W/IN-USE EXTRA DUTY COVER 2-PORT ETHERNET CAT-6 OUTLET DATA / VOICE WITH CABLE TO PATCH PANEL IN ELECTRICAL ROOM COMMUNICATION BACKBOARD 600MM (W) x 1200MM (H) C/W PATCH PANEL, MECHANICAL ALARM VOICE AUTO-DIALER OVERHEAD DOOR OPENER (COORDINATE WITH DOOR VENDOR) PANELBOARD $>\!<$ OVERHEAD SERVICE EXTERIOR WEATHERHEAD RIGID STEEL MAST AND SERVICE METER ON EXTERIOR WALL

OVERHEAD COMMUNICATION WEATHERHEAD AND WALL-MOUNT RIGID STEEL MAST SERVICE ENTRANCE AND EXTERIOR COMM DEMARCATION JUNCTION BOX. LOAD CALCULATIONS 1. WAREHOUSE BASE LOAD 3986 W $208.1SQ.M \times 15W =$ 2. OVERHEAD DOOR OPENERS $2 \times 2,000W =$ 4,000 W 3. EXTERIOR WP (VEHICLE) RECEPTACLES 3 900 W $6 \times 650W =$ 4. MECHANICAL LOADS ESTIMATED 5HP x 746W = 3,730 W 5 TOTAL 15.616 W @ 240/120V 1PH = 65 A 6. GRAND TOTAL 65 A PROVIDE 100A, 240/120V 1PH 3W SERVICE



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ARCHITECTURE INTERIORS ENGINEERING





PERMIT TO PRACTICE
PLAN-ENG CONSULTING INC.
Signature 14APRIL 2022
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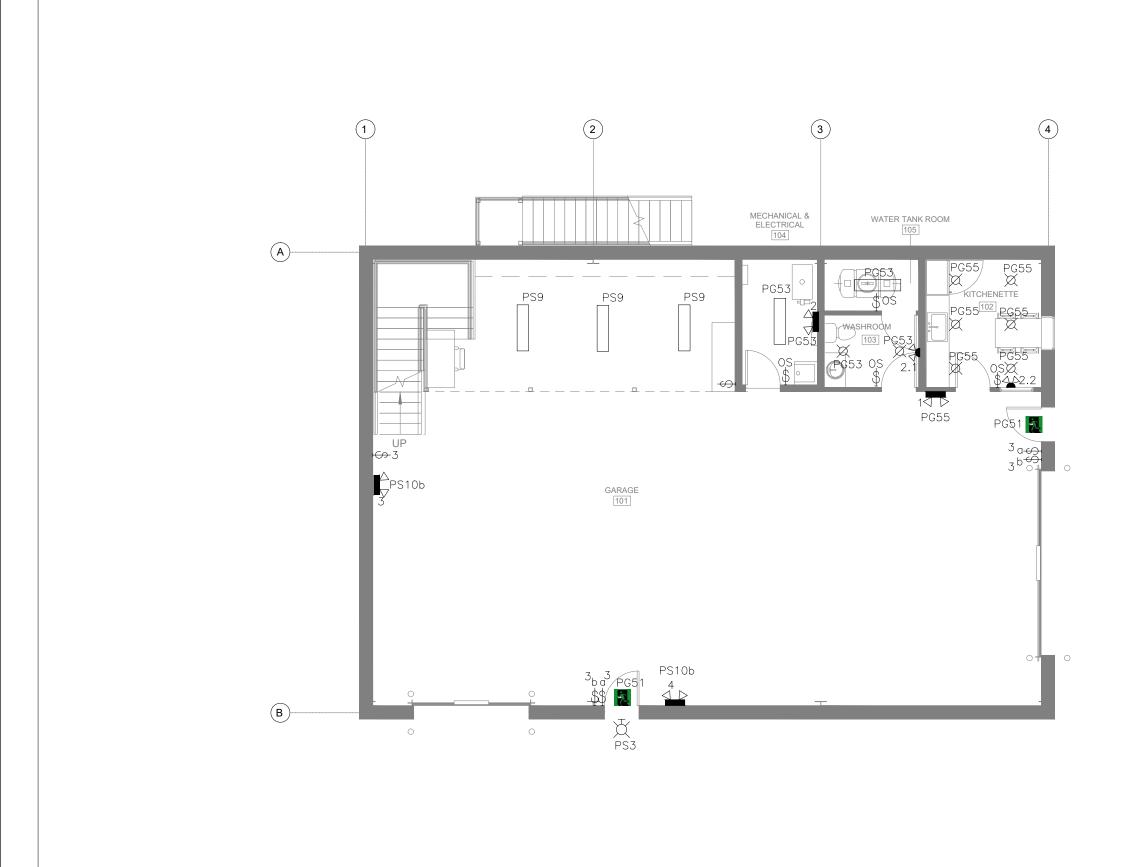
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LEGEND AND SCHEMATIC

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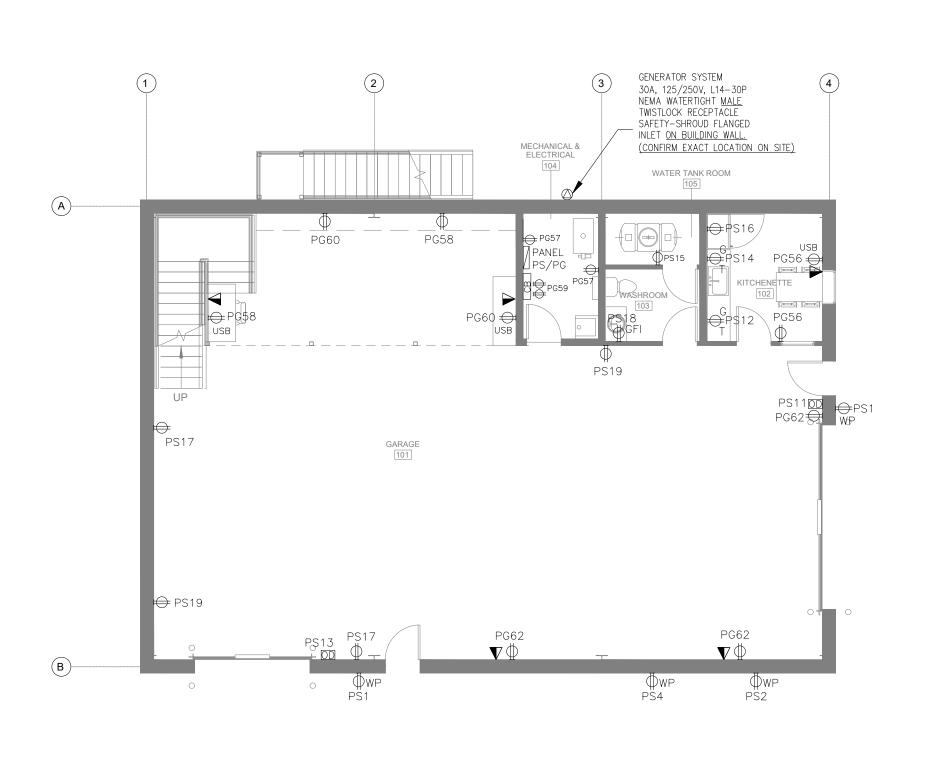
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FLOOR PLAN LIGHTING LAYOUT

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SCALE	E300
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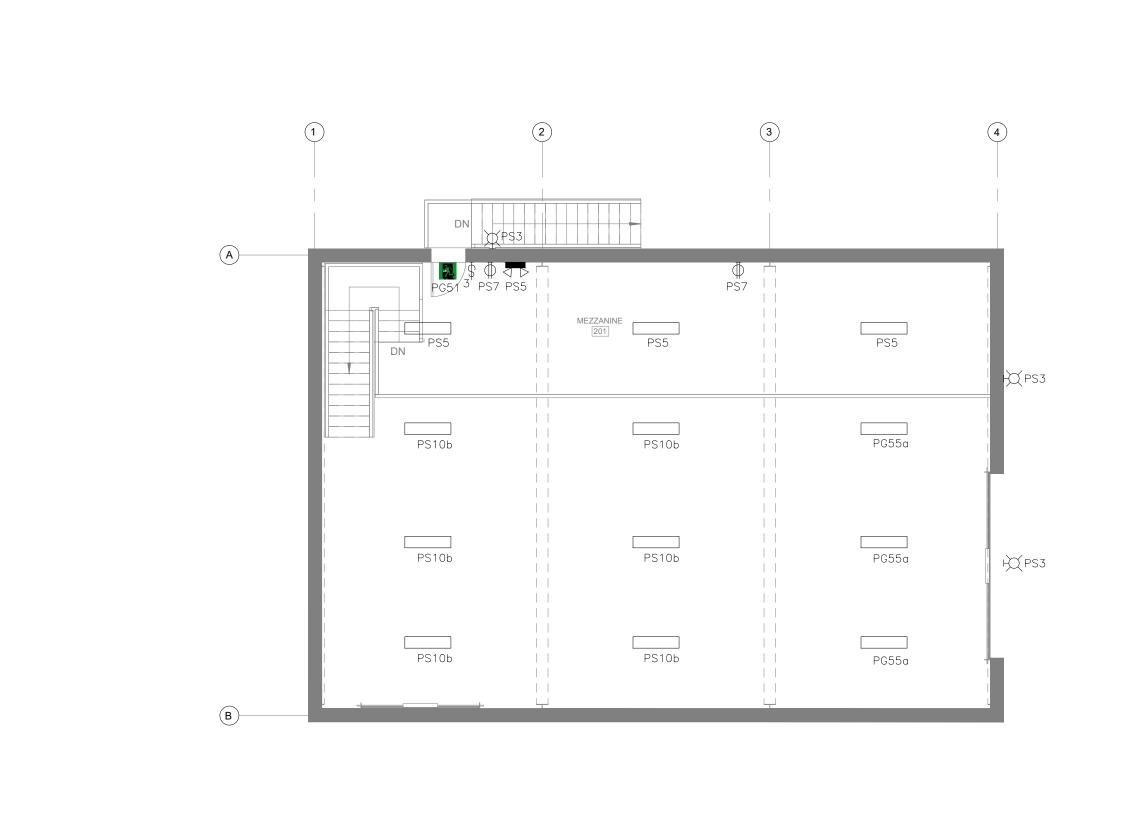
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FLOOR PLAN **ELECTRICAL** LAYOUT

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MEZZANINE FLOOR PLAN **ELECTRICAL LAYOUT**

DO NOT SCALE FOR DIMENSIONS

DESIGN		DRAWN
FS		MC
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21109		-202
SCALE		E302
1:100		

PANEL / EQUIPMENT NO: 'PS/PG'
VOLTAGE: 120 / 240V 1 PHASE 3 WIRE 60Hz.
MAIN BUS: COPPER, 100A
MAX INTERUPTING CAPACITY: 22KA LOCATION: SERVICE ROOM

COMBINATION SERVICE-GENERATOR PANEL 'PS/PG'

SUPPLIED FROM: UTILITY SERVICE ENTRANCE MAIN BREAKER CB SIZE: 100A 2P SERVICE CABLE SIZE AWG/KCMIL: CU 3-C#2 AWG PANEL MAKE AND TYPE: SQ-D OR CUTLER HAMMER

BREAKER		REAKER		EAKER		EAKER		AKER		AKER			LOAD	- WATTS		CTOR	BREAKER		
CKT NO	RATING AMPS	POLES	CONDUCTOR	SERVICE	А	В	SERVICE	CONDUCTOR	POLES	RATING AMPS	CKT NO								
01	15	1	2C#12	EXTERIOR WP RECEPTACLES			PARKING WEATHER PROOF RECEPTACLE	2C#12	1	15	02								
03	15	1	2C#12	EXTERIOR LIGHTS			PARKING WEATHER PROOF RECEPTACLE	2C#12	1	15	04								
05	15	1	2C#12	MEZZANINE - LIGHTING			UH1- UNIT HEATER - GARAGE	2C#12	1	20	06								
07	15	1	2C#12	MEZZANINE - RECEPTACLES			UH2- UNIT HEATER - GARAGE	2C#12	1	20	08								
09	15	1	2C#12	NORTH GARAGE AREA LIGHTING			GARAGE LIGHTING	2C#12	1	15	10								
11	20	1	2C#12	OVERHEAD DOOR OPENER - GARAGE			KITCHENETTE T-SLOT 20A GFI RECEPTACLES	2C#12	1	20	12								
13	15	1	2C#12	OVERHEAD DOOR OPENER - GARAGE			KITCHENETTE T-SLOT 20A GFI RECEPTACLES	2C#12	1	20	14								
15	15	1	2C#12	WATER TANK RM - RECEPTACLE			FRIDGE - KITCHENETTE	2C#12	1	15	16								
17	15	1	2C#12	GARAGE AREA RECEPTACLES			WSHROOM RECEPTACLE/EXHAUST FAN	2C#12	1	15	18								
19	15	1	2C#12	GARAGE AREA RECEPTACLES				2C#12	1	15	20								
21	15	1	2C#12					2C#12	1	15	22								
23	15	1	2C#12					2C#12	1	15	24								
25	15	1	2C#12			'		2C#12	1	15	26								
27	15	1	2C#12					2C#12	1	15	28								
29	15	1	2C#12			'		2C#12	1	15	30								
31	15	1	2C#12					2C#12	1	15	32								
33	15	1	2C#12					2C#12	1	15	34								
35	15	1	2C#12					2C#12	1	15	36								
37	15	1	2C#12				2005	70.110			38								
39							PANEL PG	3C#6	2	60	40								

ROTARY TRANSFER SWITCH / BREAKER SECTION (ESSENTIAL LOADS)

	BREAKER		CTOR		LOAD -	- WATTS		TOR		BREAKER	
CKT NO	RATING AMPS	POLES	CONDUCTOR	SERVICE	А	В	SERVICE	CONDUCTOR	POLES	RATING AMPS	CKT NO
41	20	1	2C#12	B1-B0ILER			P3 - GLYCOL PUMP - BOILER RM	2C#12	1	15	42
43	15	1	2C#12	P1-B0ILER PUMP			P4 - HEATING COIL PUMP - GARAGE	2C#12	1	15	44
45	15	1	2C#12						1	15	46
47	15	1	2C#12	P8 - SEWAGE TANK HEAT TRACE - BOILER RM.			P7 DOMESTIC HOT WATER PRIMARY - BOILER RM	2C#12	1	15	48
49	30	1	2C#12	P9-DOMESTIC WATER PRESSURE-WATER TANK RM.			HRV1 - VENTILATION UNIT - GARAGE	2C#12	1	15	50
51	15	1	2C#12	EXIT SIGN			MUA1 - MAKE UP AIR UNIT - MAINTENANCE	2C#12	1	20	52
53	15	1	2C#12	WASHRM/WATER TANK RM/MECH/ELECT RM. LTG.			EF1 - EXHAUST FAN - MAINTENANCE	2C#12	1	20	54
55	15	1	2C#12	GARAGE/KITCHENETTE LIGHTING	•		KITCHENETTE RECEPTACLES	2C#12	1	15	56
57	15	1	2C#12	MECHANICAL/ELECTRICAL RM RECEPTACLES			NORTH GARAGE OFFICE AREA RECEPTACLES	2C#12	1	15	58
59	15	1	2C#12	COMMUNICATION BACKBOARD RECEPTELECT. RM			NORTH GARAGE OFFICE AREA RECEPTACLES	2C#12	1	15	60
61	15	1		SPARE		,	GARAGE AREA RECEPTACLES	2C#12	1	15	62
63	15	1		SPARE	·				1	15	64
65	15	1		SPARE					1	15	66
67	15	1		SPARE	·				1	15	68
69	15	1		SPARE					1	15	70
71	15	1		SPARE	·				1	15	72
73	15	1							1	15	74
75	15	1			·				1	15	76
77	15	1							1	15	78
79	15	1								15	80

NOTES:

- 1. TANDAM MICRO-BREAKERS SHALL BE USED. PANEL SHALL BE SQUARE-D OR PRIOR APPROVED EQUAL
- 2. REFER TO E200 & E301 FOR NEW SERVICE PANEL LOCATION AND THE SCHEMATIC

GUY ARCHITECTS

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PROJECT

QANP **OPERATIONS** GARAGE

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ELECTRICAL **PANEL SCHEDULES**

DO NOT SCALE FOR DIMENSIONS

DESIGN	DRAWN
FS	MC
PROJECT	
21109	- 40

SCALE NTS **E400**

			<u>Mo</u>	tor & Control	Dat	<u>a</u>										
Project:	QANP GARAGE			Project No.:		+	21-03	5			D	Pate:	2022-03-31			
•	RESOLUTE, NU			Submission:		2	1-035				D	esign:	JH			
						\perp						hecked:				
Unit				Motor							Supply	Supply	Description of	Comments	PANEL CCT.#	BR.CCT.CONDUC
No.	Description	Location	Model				Iz Con			Starter	Pilot.	Disc.	Interlocks & Controls			
B1	BOILER	BOILER RM	WEIL MCLAIN WGO7	1/6 HP		_	50 ON/		_		MECH	ELECT		15 AMP CIRCUIT	PG41	2C#12
P1	HEATING PUMP	BOILER RM	GRUNDFOS ALPHA2 26-99FC	1/6 HP			50 ON/			ELECT	MECH	ELECT			PG43	2C#12
P2	HEATING PUMP	BOILER RM	GRUNDFOS ALPHA2 26-99FC	1/6 HP	115	4 €	50 ON/ 4) FF +	IS I	ELECT	MECH	ELECT		NOT USED		
P3	GLYCOL PUMP	BOILER RM	AXIOM DMF150	FRAC	115	1 (50 ON/	DFF F	PC	N/A	MECH	n/a		15A RECEPTACLE	PG42	2C#12
P4	HEATING COIL PUMP	GARAGE	GRUNDFOS ALPHA2 15-55FC	1/16 HP	115	1 6	50 ON/	DFF H	HS I	ELECT	MECH	ELECT		MUA1	PG44	2C#12
P6	HEATING COIL PUMP	GARAGE	GRUNDFOS ALPHA2 15-55FC	1/16 HP	115	1 €	60 ON/4)FF +	IS I	ELECT	MECH	ELECT		NOT USED		1
P7	DOMESTIC HOT WATER PRIMARY	BOILER RM	GRUNDFOS ALPHA2 26-99FC	1/6 HP	115	1 6	50 ON/	OFF T	ГС І	ELECT	MECH	ELECT			PG48	2C#12
P8	SEWAGE TANK HEAT TRACE	BOILER RM	GRUNDFOS ALPHA2 26-99FC	1/6 HP	115	1 6	50 ON/	OFF T	ГС І	ELECT	MECH	ELECT			PG47	2C#12
HRV1	VENTILATION UNIT	GARAGE	NU-AIR NU305HRV	2X1/4 HP	115	1 6	50 ON/0	DEE N	AC.	n/a	MECH	n/a		15A RECEPTACLE	PG50	2C#12
MUA1	MAKEUP AIR UNIT	MAINTENANCE	ESP LOV LV140	1/2 HP	115	_			_		MECH	ELECT	EF1, GAS MONITOR		PG52	2C#12
EF1	EXHAUST FAN	MAINTENANCE	ESP LOV LV140-BU	1/2 HP	115					ELECT	MECH	ELECT	MUA1, GAS MONITOR		PG54	2C#12
UH1	UNIT HEATER	GARAGE	ENGINEERED AIR H7	1/2 HP	115	1 6	50 ON/	OFF T	ГС І	ELECT	MECH	ELECT	ZONE VALVE		PS6	2C#12
UH2	UNIT HEATER	GARAGE	ENGINEERED AIR H7	1/2 HP			50 ON/0				MECH	ELECT	ZONE VALVE		PS8	2C#12
P9	DOMESTIC WATER PRESSURE	WATER TANK ROOM	GRUNDFOS SCALA	3/4 HP	115	1 6	50 ON/0	OFF F	C	N/A	MECH	ELECT	SEWAGE HI		PG49	2C#12
						+										
<u>Control</u>		Pilot Device							+							
On/Off - c/w pilo	t light	LC-level control	HS-handswitch	MC-humidity c	ontrol		C-tim	eclock	\neg							
1.O.A.		TC-temp control	I-Interlock	PC-pressure co	$\overline{}$	-			\neg							

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MECHANICAL LOAD SCHEDULE

DO NOT SCALE FOR DIMENSIONS

DESIGN	DRAWN	
FS	MC	
PROJECT		

21114 SCALE NTS

E500

			LUMINAIRE	E SCHE	EDULE			
SYMBOL	TYPE	MANUFACTURER	DESCRIPTION	LAMP	VOLTS, WATTS	TEMP, LUMENS	LOCATION	MOUNTING
	L1	COOPER METALUX	1 X 4 LED FIXTURE COMPLETE WITH ELECTRONIC DRIVERS 4ILED-LD5-16-W-FL-UNV-L840-C	LED	120V	4000K, 12,356LUMENS	GARAGE AREA	CEILING CHAIN SUSPENDED / SURFACE MOUNTED
	L2	COOPER METALUX	1 X 4 LED FIXTURE COMPLETE WITH ELECTRONIC DRIVERS 4ILED-LD5-5-W-FL-UNV-L840-CD	LED	120V	4000K, 3829LUMENS	KITCHENETTE/WATER TANK RM MECHANICAL/ELECTRICAL RM NORTH GARAGE OFFICE AREA	CEILING SURFACE MOUNTED
	L3	COOPER METALUX	1.2M (4FT) STRIP LED FIXTURE COMPLETE WITH LECTRONIC DRIVERS 4000K 4000L 80CRI 4SLSTP4040DD-UNV	LED	120V	4000K, 4000LUMENS	WASHROOM	CEILING SURFACE MOUNTED
Ä	L4	COOPER	CUTOFF LED WALL-MOUNT LUMINAIRE DIE-ALUMINUM WEATHERPROOF HOUSING AND INTEGRAL PHOTOCELL, DARK SKY COMPLIANT, 50W,120V;COOPER LIGHTING: XTOR5A-N.PC1	LED	120V	3500K, 3532LUMENS	EXTERIOR	WALL MOUNTED
2	L5	AIMLITE	DELUGE-RPN MODEL: EXIT PICTOGRAM LONG LIFE LED LIGHT SOURCE EXIT SIGN C/W 30-MIN. SEALED NICKEL -CADMIUM BATTERY; AUTO-TEST; SINGLE FACE; RATED -40C, IP66	LED	120V		INTERIOR	WALL MOUNTED
	L6	AIMLITE	DELUGE-EBN RPN: EMERGENCY LIGHT BATTERYPACK C/W 2x5W LED SWIVEL LAMP, 30-MIN. SEALED NICKEL -CADMIUM BATTERY; AUTO-TEST; RATED -40C, IP66	LED	120V		INTERIOR	WALL MOUNTED
×	L7	COOPER METALUX	INTERIOR JUNCTION BOX — MOUNTED RECESSED 6" FIXTURE: 12W, 1000 LUMENS 3000K DIMMABLE ELECTRONIC DRIVERS	LED	120V	3000K,1000LUMENS	KITCHENETTE/WASHROOM	CEILING RECESSED MOUNTED.

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DRAWING

LUMINAIRE SCHEDULE

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DESIGN MC FS PROJECT

21109 SCALE NTS

E600