### Public Works and Government Services Canada Canada Canada REAL PROPERTY SERVICES Pacific Region SERVICES IMMOBILIERS Région de Pacifique CENTRE FOR AQUACULTURE & ENVIRONMENTAL RESEARCH numberTEN NEW LABS architectural grou DRAWING LIST **ARCHITECTURAL** COVER SHEET, LIST OF DRAWINGS A0.00 LEGEND, ASSEMBLIES, ABBREVIATIONS, NOTES A1.01 LOCAL SITE PLAN A1.02 OVERALL SITE PLAN A2.01 FLOOR PLANS FOUNDATION & FRAMING PLAN A3.01 FEED LAB EXTERIOR ELEVATONS A3.02 ACOUSTICS LAB EXTERIOR ELEVATONS A4.01 SECTIONS A6.01 DETAILS DETAILS A6.02 A6.03 DETAILS A6.04 DETAILS A6.05 ACOUSTIC LABS STAIR DETAIL A6.06 FEED LAB RAMP DETAIL A7.01 INTERIOR ELEVATIONS A7.02 MILLWORK DETAILS A8.01 DOOR, WINDOW, & FINISH SCHEDULES, EQUIPMENT TO BE RELOCATED **STRUCTURAL** S1.01 STRUCTURAL NOTES S2.01 FOUNDATION PLAN, SECTIONS AND DETAILS S2.02 FLOOR FRAMING PLAN, DETAILS AND SECTIONS STRUCTURAL (ALUMINUM FRAME ASSEMBLY) STRUCTURAL ALUMINUM FRAME, 3D GENERAL ARRANGEMENT, GENERAL NOTES, DRAWING INDEX AND LEGEND STRUCTURAL ALUMINUM FRAME, ROOF FRAMING PLAN AND 2017-11-30 100% REVIEW 2 ROOF FRAMING DETAIL STRUCTURAL ALUMINUM FRAME, FLOOR FRAMING PLAN AND SH3 INSULATED PANEL LAYOUT 2017-11-17 1 Roof Framing Plan Revision/ Revision Description/Description Date/Date SH4 STRUCTURAL ALUMINUM FRAME, COLUMN PLAN AND DETAILS SH5 STRUCTURAL ALUMINUM FRAME, COLUMN BASES PLAN AND Client/client CABLE BRACING GUSSET PLATE PLAN, SECTIONS AND DETAILS SH6 STRUCTURAL ALUMINUM FRAME, HALF CROSS SECTIONS **FISHERIES AND OCEANS,** SH7 STRUCTURAL ALUMINUM FRAME, KNEE BRACING AND ROOF **REAL PROPERTY,** BEAM CONNECTION DETAILS, SHEET 1 OF 2 SH8 STRUCTURAL ALUMINUM FRAME, KNEE BRACING AND ROOF SAFETY AND SECURITY BEAM CONNECTION DETAILS, SHEET 2 OF 2 SH9 STRUCTURAL ALUMINUM FRAME, ROOF FRAMING AND FLOOR FLOOR FRAMING, SECTIONS AND DETAILS VANCOUVER, BC SH10 STRUCTURAL ALUMINUM FRAME, COLUMN BASE MK-C81, 200-401 BURRARD ST. SECTIONS AND DETAILS SH11 STRUCTURAL ALUMINUM FRAME, COLUMN BASE MK-C82 AND Project title/Titre du projet COLUMN BASE MK-C83, SECTIONS AND DETAILS **CENTER FOR MECHANICAL AQUACULTURE &** ENVIRONMENTAL ACOUSTIC LAB & FEED LAB - MECHANICAL AND PLUMBING PLANS M1.01 RESEARCH **ELECTRICAL** E1.0 SITE PLAN, LEGEND AND SCHEDULES MODULAR LABS E2.0 LAB POWER AND LIGHTING LAYOUTS AND DETAILS 4160 Marine Dr, West Vancouver <u>CIVIL</u> Consultant Signature Box Only C1.0 SITE PLAN AND SERVICING Designed by/Concept par ATE RH **GENERAL NOTES:** Drawn by/Dessine par СМ • DO NOT SCALE DRAWING. PWGSC Project Manager/Administrateur de Projets TPSGC • THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DATUMS, AND LEVELS PRIOR TO COMMENCEMENT OF WORK. ALL ERRORS AND OMISSIONS TO BE REPORTED TO THE PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC DEPARTMENTAL REPRESENTATIVE BEFORE PROCEEDING. PREETIPAL PAUL R • VARIATIONS AND MODIFICATIONS TO WORK SHOWN ON THESE Drawing title/Titre du dessin DRAWINGS SHALL NOT BE CARRIED OUT WITHOUT WRITTEN PERMISSION OF DEPARTMENTAL REPRESENTATIVE. COVER SHEET, • ALL DIMENSIONS ARE TO GRIDLINES, FACE OF CONRETE, FACE OF STUDS OR CENTERLINE OF COLUMNS UNLESS NOTED OTHERWISE. LIST OF DRAWINGS, ALL DIMENSIONS ARE METRIC (mm) UNLESS NOTED OTHERWISE. LEGEND, ASSEMBLIES, H.M. HOLLOW METAL U.G. UNDER GROUND UNLESS NOTED OTHERWISE HDWR HARDWARE U.N.O. THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ABBREVIATIONS, HORIZONTAL HORIZ. U/S UNDERSIDE AND COORDINATED WITH THE SPECIFICATIONS AND THE VAPOUR BARRIER INSULATION INSUL. VB DOCUMENTS OF THE OTHER DISCIPLINES THAT FORM THE NOTES VERT. MAT'L MATERIAL VERTICAL FULL CONTRACT DOCUMENT PACKAGE. WHERE CONFLICT VCT VINYL COMPOSITE TILE MECH. MECHANICAL EXISTS BETWEEN DOCUMENTS, THESE ARE TO BE MEMB MEMBRANE W/ WITH REPORTED TO THE DEPARTMENTAL REPRESENTATIVE MB WD. WOOD MOISTURE BARRIER BEFORE PROCEEDING. W/O WITH OUT MIN. MINIMUM OR MINUTES Project No./No. du projet Sheet/ Feuille Revision no./ ENSURE COMPATABILITY OF METAL FASTENERS, SHEET METALS AND La Révision OTHER METAL ITEMS WITH EACH OTHER AND WITH PRESSURE A0.00 2 TREATED WOOD. PROVIDE ISOLATION WHERE -REQUIRED. ALWAYS ISOLATE P.T. WOOD FROM METALS.

	Name of I	Project: I	Building	g 109									
	Location:	19 Wing	g Como	ox, Lazo BC	)								
Item	2010 Nati	onal Bui	ding C	ode Data N	latrix	,					Part 3	NBC 2010 Refere	nc
1	Project Des 2 New Mod	cription: - ular Buildi	ngs - Alı	iminium fram	□ N e with	New ⊏ metal faced r	⊐ Add rigid in:	ition sulatio	⊠ Ro n panels.	enovation			
2	Building Are	ea (m²):	58.2	sq.m.								1.4.1.2[A]	
3	Number of	Storeys:	1									1.4.1.2[A], 3.2.1.1	
4	Separation	of Occupa	ancys:			N/A						3.1.3.1	_
5	Number of	Streets/Ac	cess Ro	utes:		1						3.2.2.10	
6	Major Occu	pancy(s):	Acou Feed	istics Lab: Gr I Lab Group F	oup D - Div	)- Offices rision 3						3.2.2.62 3.2.2.85	
	Required Fi Resistance	ire Rating	Fire Rati	Resistance ngs (Hours)						Listed Des or Descrip	sign No. tion	_	
	(FRR)		Roo	f		N/A - 0 Hrs	S.			See Asser	nblies		
			FIOC	ors porting Walls		N/A - 0 Hrs N/A - 0 Hrs	5. 5.			-			
7	Sprinkler Sy	ystem Pro	posed:			Entire Building	)	⊠ N	0			-	
8	Standpipe F	Required:				/es		⊠ N	0			3.2.5.8	
9	Fire Alarm F	Required:				ſes		⊠N	0			3.2.4	
10	Water Servi	ice/Supply	is Adeq	uate:		/es		□ N	0			3.2.5.7	
13	High Buildir	ng:				/es		⊠ N	0			3.2.6	
14	Permitted C Actual Cons	Construction:	n:		□ ( ⊠ (	Combustible Combustible		□ N □ N	on-Combu on-Combu	istible 🛛 🖾	⊠ Both ⊐ Both	3.2.2.20-83	
15	Spatial Sep	aration - S	South Ex	terior Wall - A	coust	ics Lab only:							
	Area of Wall (m²)	L.D. (m²)	L/H or H/L	Permitted % of Openings		FRR (hours)	Comb Non-	oustible Combu	Construc	tion dding		3.2.3.1-B 3.2.3.7	
	21.5 sq.m	1.8m	N/A	10%		.75 Hours	1						
16	Occupant L	oad Base	d On:			⊠ m²/persor	ו		esign of E	Building		3.1.17	
	Acoustics L	ab 5	58.2 sq.1	m. / 9.3 sq.m/	perso	n = 6 per	sons						
	Feed Lab	3 _1	4.2 sq.r 8 sq.m.	n. manufactu storage / 28	re / 4. sq.m	6 sq.m/persor /person = Total	n = 7 1 8	Perso	ns				
17	Barrier-Free	e Design:		🖂 Yes (F	eed L	ab) ⊠ -I	1 No ( <i>i</i> Barrier	Acoust free a	ics Lab) ccomodate	ed in adjacent	t building	3.8	

PWGSC - B1 - 1000X707

WAL	LASSEMBLIES		ROOF ASSEMBLIES		
Ŵ1	TYPICAL EXTERIOR WALL ASSEMBLY PREFAB EPS WALL PANEL METAL SKIN (PREFINISHED) R24 RIGID INSULATION 152mm THICK PANEL		- R1 TYPICAL ROOF ASSEMBLY EPS ROOF PANEL: PREFIN METAL SKIN	, I. METAL SKIN, EF	PS INSULATION (R32 203mm),
	METAL SKIN (PREFINISHED) ALUMINIUM FRAME		FLOOR ASSEMBLIES		
				v	
w2>-	TYPICAL EXTERIOR WALL ASSEMBLY				
$\checkmark$	(FRR 45 MINUTE) PREFAB EPS WALL PANEL METAL SKIN (PREFINISHED) R24 RIGID INSULATION 152mm THICK PANEL METAL SKIN (PREFINISHED)		FLOORING - SEE SCHEDU 8mm PLYWOOD FINISHED 19mm EXTERIOR GRADE F R32 (203mm) INSULATED F GALVANIZED STEEL DECK	le Floor Underla Plywood overl Floor Panel Ing	AYMENT AY
	12mm AIR SPACE 92mm STEEL STUD @400 O.C. 16mm TYPE X GWB		PEEL AND STICK ISOLATIC ALUMINUM FRAME - SEE \$	ON MEMBRANE STRUCT.	
P1	INTERIOR COOLER WALL				
	PREFAB EPS WALL PANEL METAL SKIN (PREFINISHED) R24 RIGID INSULATION 152mm THICK PANEL METAL SKIN (PREFINISHED)				
P2>-	TYPICAL INTERIOR PARTITION				
$\checkmark$	16mm GYPSUM WALL BOARD 92mm STEEL STUD @400 O.C. 16mm GYPSUM WALL BOARD				
	INSULATED INTERIOR PARTITION				
	16mm GYPSUM WALL BOARD 92mm STEEL STUD @400 O.C. SOUND BATT INSULATION TO FILL CAVITY 16mm GYPSUM WALL BOARD				
P4	COOLER WALL AT SHELVES PREFAB EPS WALL PANEL METAL SKIN (PREEINISHED)		_		
	R24 RIGID INSULATION 152mm THICK PANEL METAL SKIN (PREFINISHED) 92mm STEEL STUD @400 O.C. 16mm TYPE X GWB LAB SIDE				
$\wedge$	INTERIOR PARTITION				
(P5)-	16mm GYPSUM WALL BOARD 140mm STEEL STUD @400 O.C. 16mm GYPSUM WALL BOARD				
			VIATIONS		
<u>ND.</u>	TAIL NUMBER	AB	AIR BARRIER	(N)	NEW
SH		ACM ACT	ASBESTOS CONTAINING MATERIAL ACOUSTIC CEILING TILE	N.Í.C. N.T.S.	NOT IN CONTRACT NOT TO SCALE
AS R-F W-	ROOF, F- FLOOR WALL P-PARTITION	ALT. ALUM. ANOD	ALTERNATE ALUMINUM ANODIZED	O.C. OP. PT	ON CENTER OPERABLE PAINT
GR	ID MARKER	A.F.F. BLDG.	ABOVE FINISH FLOOR BUILDING	P.O. P.T. PB	POWER OPERATOR PRESSURE TREATED RUBBER BASE
) DC	OR NUMBER	CARP. T. C.C.	CARPET TILE CENTER TO CENTER	RCP RE & RE	REFLECTED CEILING PLAN REMOVE & RELOCATE / REINS
WI	NDOW NUMBER	C.O. C.J. C/W	CLEAN OUT CONTROL JOINT COMPLETE WITH	RM. SAM SAN	ROOM SELF ADHESIVE MEMBRANE SANITARY
SE DIF	CTION CUT RECTION MARKER	CONC. D.G. (E) ELECT.	CONCRETE DOUBLE GLAZED EXISTING ELECTRICAL	SEP SG SIM. SQ.	SEPARATION SHEET GOODS FLOORING SIMILAR SQUARE
ME RC RC	OM NAME OM NUMBER	f.e. F.e.C. FIN. FNDT. FRP	FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FINISH FOUNDATION FIRE RESISTANCE RATING	S.S. ST STRUCT. SV TRD	STAINLESS STEEL STEEL STRUCTURAL SHEET VINYL TO BE DETERMINED
B) FIN	IISH TYPE   HEIGHT ABOVE FINISHED FLOOR	FTG GWB	FOOTING GYPSUM WALL BOARD	T.G. THLD.	TRIPPLE GLAZED
N A II		GA G.I.	GAUGE GAIVANIZED	I.U. TYP	TYPICAI

DM5XXXXXX





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FLOOR PLAN - ACOUSTICS LAB 2 A2.01 SCALE: 1:50







0 10 20 30 40 50 60 70 80 90 100mm







Public Works and Government Services Canada REAL PROPERTY SERVICES Pacific Region SERVICES IMMOBILIERS Région de Pacifique
numberTEN architectural group
KEY NOTES:
<ol> <li>EPS WALL PANEL</li> <li>METAL ROOF</li> <li>ALUMINUM GUTTER &amp; DOWN SPOUT</li> <li>STEEL STAIRS, RAMP &amp; RAILINGS</li> <li>PREFINISHED GALVANIZED STEEL BATTEN FRAME. CONSULTANTS TO SELECT COLOUR FROM STANDARD RANGE</li> <li>ALUM. FLASHING</li> </ol>
1 0 1 2 3m 1 : 50
2 100% REVIEW 2017-11-30
Revision/ Description/Description Date/Date
FISHERIES AND OCEANS, REAL PROPERTY, SAFETY AND SECURITY VANCOUVER, BC 200-401 BURRARD ST.
Project title/Titre du projet CENTER FOR AQUACULTURE & ENVIRONMENTAL RESEARCH
<b>MODULAR LABS</b> 4160 Marine Dr, West Vancouver
Consultant Signature Box Only
RH
CM
PWGSC Project Manager/Administrateur de Projets TPSGC PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC PREETIPAL PAUL Drawing title/Titre du dessin
FEED LAB EXTERIOR ELEVATIONS
Project No./No. du projet Sheet/ Feuille Revision no./ - A3.01 2



0 10 20 30 40 50 60 70 80 90 100mm



DM5XXXXX





0 10 20 30 40 50 60 70 80 90 100mm

PROVIDE MINIMUM 150MM THICK \_\_\_\_\_\_/ LAYER OF WELL GRADED 19MM SAND AND GRAVEL ON SUBGRADE. COMPACTED TO 100% STANDARD PROCTOR DENSITY.

SECTIONS A4.01 SCALE: 1:25

2 3  $\langle R1 \rangle$ U/S ROOF BEAM \_\_\_\_\_ 610 COOLER (15°) LAB 100 P4 14 A6.02 8 A6.01 7 A6.04 (12) (A6.01) F1 - SHIM DEPTH - ALUMINUM FRAMING - ALUM. SIDE PLATE - SEE STRUCT. - SEE STRUCT. 0000 350 MIN. - Seismic Tie - See Struct. Ŵ7















- TREMCO 'SPECTREM 2' SEALANT, COLOUR: CLEAR - CONTINUOUS 1/2" [13mm.] x 1/8" [3.2mm.] BUTYL TAPE

MEMBRANE OVER WALL PANEL AND DOOR FRAME

- PAN HEAD #8-18 x 1 1/2" [38mm.] TEKS/2 SCREWS @

8" [203mm.] OC. DO NOT OVER TIGHTEN TO TREMCO 'SPECTREM 2' SEALANT ALL AROUND FRAMES TO BE DIMPLED TO ACCEPT FLAT HEAD

10-16 X 1-1/2" [38mm.] TEKS/3 SCREWS @ 12" [305mm.] OC. FILL SCREW HEAD DEPRESSION WITH METAL PASTE AND SAND SMOOTH TO

ACCEPT TOUCH-UP PAINT TO MATCH FRAME

- KINK PLATE SO THAT PAN HEAD SCREWS APPLY



5/8" [15.8mm.] PLYWOOD FILLER PLATE FOR WIDTH OF DOORWAY. BORE HOLES THROUGH PLYWOOD TO INSTALL TEKS SCREWS THROUGH STEEL PLATE AND DECKING

PREPAINTED 1/8" X 40" [1016mm.] LONG STEEL THRESHOLD SUPPORT PLATE CENTRED IN

TREMCO 'SPECTREM 2' SEALANT, COLOUR: CLEAR

STRIP OF PEEL & STICK SELF-ADHESIVE MEMBRANE

- TREMCO 'SPECTREM 2' SEALANT, COLOUR: CLEAR

-- PAN HEAD #8-18 x 1 1/2" [38mm.] TEKS/2 SCREWS @ 8" [203mm.] OC. DO NOT OVERTIGHTEN TO PREVENT "OIL

FRAMES TO BE DIMPLED TO ACCEPT FLAT HEAD 10-16 X 1-1/2" [38mm.] TEKS/3 SCREWS @ 12" [305mm.] OC. FILL SCREW HEAD

DEPRESSION WITH METAL PASTE AND SAND SMOOTH TO

ACCEPT TOUCH-UP PAINT TO MATCH FRAME COLOUR



0 10 20 30 40 50 60 70 80 90 100mm





0 10 20 30 40 50 60 70 80 90 100mm

DM5XXXXXX





0 10 20 30 40 50 60 70 80 90 100mm



0 10 20 30 40 50 60 70 80 90 100mm









PREFAB METAL RACK SYSTEM SSTEM RETAL RACK SYSTEM SSTEM SSTEM

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ENTRY - ACOUSTICS LAB (103)

6 WORKBENCH - ACOUSTICS LAB (103) A7.01 SCALE: 1:50









DOO	OOR SCHEDULE														
FEED L	ED LAB BUILDING														
OPENI	NG		DOOR					_			FRAME				
NUM.	SIZE (W x H x THICK)	ROOM NAME	FRR	HDWR	TYPE	MAT'L	CORE	FINISH	COLOR	GLAZ.	MAT'L	TYPE	FINISH COLOR	GLAZ.	REMARKS
1	1828 x 2032 x 45	FEED LAB	-	1	D	MTL.	INSU.	PT		D.G. TEMP.	H.M.	В	PT		LOCK; CLOSER; KICK PLATE; THRESHOLD; WEATHER STRIPPING; SWEEP
2	914 x 2032 x 102	COOLER	-	2	С	MTL.	INSU.	P.F.			H.M.	Α	P.F.		GASKET; SELF RISING HINGES; SAFTEY RELEASE FASTENER - COOLER TYPE DOOR
ACOUS	TIC LAB BUILDING								•				• •		
OPENI	NG		DOOR				_	-	-		FRAME				
NUM.	SIZE (W x H x THICK)	FROM	FRR	HDWR	TYPE	MAT'L	CORE	FINISH	COLOR	GLAZ.	MAT'L	TYPE	FINISH COLOR	GLAZ.	REMARKS
3	914 x 2032 x 45	OPEN OFFICE	-	3	В	MTL.	INSU.	PT		D.G. TEMP.	H.M.	Α	PT		LOCK; CLOSER; KICK PLATE; THRESHOLD; WEATHER STRIPPING; SWEEP
4	914 x 2032 x 45	SERVER ROOM	_	4	A	MTL.	INSU.	PT			H.M.	A	PT		PASSAGE SET; KICK PLATE
5	914 x 2032 x 45	UTILITY ROOM	-	5	A	MTL.	INSU.	PT			H.M.	A	PT		PASSAGE SET; KICK PLATE; WEATHER STRIPPING

SCHEDULE ABBREVIATIONS:								
ALUM. ARG. D.G. FRR GLAZ. H.M. HDWR	ALUMINUM ARGON FILL DOUBLE GLAZED FIRE RESISTANCE RATING GLAZING (OR GLAZED) HOLLOW METAL HARDWARE	       						

WIND	WINDOW SCHEDULE										
FEED L	FEED LAB BUILDING										
NUM.	R.O. SIZE (W x H)	TYPE	FRAME MAT'L	GLAZING	FINISH	COLOUR	REMARKS				
1	1016x1219 mm	Α	VINYL	D.G.		WHITE					
2	762x1219 mm	В	VINYL	D.G.		WHITE					
ACOUS	TIC LAB BUILDING										
NUM.	R.O. SIZE (W x H)	TYPE	FRAME MAT'L	GLAZING	FINISH	COLOUR	REMARKS				
3	1219x1219 mm	С	VINYL	T.G.		WHITE					
4	1219x1219 mm	С	VINYL	T.G.		WHITE					

FINISH	SCHEDULE ABBREVIATIONS	S:			
ACT AS. CARP. CONC GWB	ACOUSTIC CEILING TILE ANTI-STATIC CARPET TILE CONCRETE GYPSUM WALL BOARD	F.R. OP S.R. PT. S.V.	NON-CONDUCTIVE, FIRE RETARDANT PAINT OPERABLE SHEET RUBBER PAINTED SHEET VINYL	SL. T.B.D. TILE VCT W. COV. M.P.	SEALED TO BE DETERMINED CERAMIC TILE VINYL COMPOSITE TILE WALL COVERING POLSIHED METAL PANEL - WHITE

VISH SCHEDULE																					
ED LAB BUILDING																					
	FLOOR		BASE			CEILING			NORTH WALL			EAST WALL			SOUTH WALL			WEST WALL			
ROOM NAME	FINISH	COLOUR	MATERIAL	SIZE	COLOUR	MATERIAL	FINISH	COLOUR	MATERIAL	FINISH	COLOUR	MATERIAL	FINISH	COLOUR	MATERIAL	FINISH	COLOUR	MATERIAL	FINISH	COLOUR	REMARKS
LAB	S.R.		RUBBER	100mm		M.P.	PRE-FINISHED	WHITE	GWB.	PAINT		M.P.	PRE-FINISHED	WHITE	M.P.	PRE-FINISHED	WHITE	M.P.	PRE-FINISHED	WHITE	
COOLER	S.R.		RUBBER	100mm		M.P.	PRE-FINISHED	WHITE	M.P.	PRE-FINISHED	WHITE	M.P.	PRE-FINISHED	WHITE	M.P.	PRE-FINISHED	WHITE	M.P.	PRE-FINISHED	WHITE	
ACOUSTIC LAB BUILDING																					
	FLOOR		BASE			CEILING			NORTH WALL			EAST WALL			SOUTH WALL			WEST WALL			
LAB	S.R.		RUBBER	100mm		M.P.	PRE-FINISHED	WHITE	GWB.	PAINT		M.P.	PRE-FINISHED	WHITE	GWB.	PAINT		M.P.	PRE-FINISHED	WHITE	
SERVER ROOM	S.R.		RUBBER	100mm		M.P.	PRE-FINISHED	WHITE	GWB.	PAINT		GWB.	PAINT		GWB.	PAINT		M.P.	PRE-FINISHED	WHITE	
UTILITY ROOM	S.R.		RUBBER	100mm		M.P.	PRE-FINISHED	WHITE	GWB.	PAINT		GWB.	PAINT		GWB.	PAINT		M.P.	PRE-FINISHED	WHITE	
	SCHEDULE BUILDING ROOM NAME LAB COOLER CLAB BUILDING LAB SERVER ROOM UTILITY ROOM	SCHEDULE BUILDING FLOOR ROOM NAME LAB S.R. COOLER S.R. COOLER S.R. COOLER S.R. FLOOR LAB S.R. SERVER ROOM S.R. UTILITY ROOM S.R.	SCHEDULEBUILDINGFLOORROOM NAMEFINISHCOOLERS.R.COOLERS.R.CLAB BUILDINGLABS.R.LABS.R.SERVER ROOMS.R.UTILITY ROOMS.R.	SCHEDULE         BUILDING         FLOOR       BASE         ROOM NAME       FINISH       COLOUR       MATERIAL         LAB       S.R.       RUBBER         COOLER       S.R.       RUBBER         CLAB BUILDING       FLOOR       BASE         LAB       S.R.       RUBBER         SERVER ROOM       S.R.       RUBBER         UTILITY ROOM       S.R.       RUBBER	SCHEDULE         BUILDING         FLOOR       BASE         ROOM NAME       FINISH       COLOUR       MATERIAL       SIZE         LAB       S.R.       RUBBER       100mm         COOLER       S.R.       RUBBER       100mm         COLAB BUILDING       FLOOR       BASE         LAB       S.R.       RUBBER       100mm         SERVER ROOM       S.R.       RUBBER       100mm         UTILITY ROOM       S.R.       RUBBER       100mm	SCHEDULE         BUILDING         FLOOR       BASE         ROOM NAME       FINISH       COLOUR       MATERIAL       SIZE       COLOUR         LAB       S.R.       COLOUR       RUBBER       100mm       Incomparing         COOLER       S.R.       RUBBER       100mm       Incomparing         CLAB BUILDING       FLOOR       BASE       Incomparing         LAB       S.R.       RUBBER       100mm       Incomparing         SERVER ROOM       S.R.       RUBBER       100mm       Incomparing         UTILITY ROOM       S.R.       RUBBER       100mm       Incomparing	SCHEDULEBUILDINGFLOORBASECEILINGROOM NAMEFINISHCOLOURMATERIALSIZECOLOURMATERIALLABS.R.IRUBBER100mmM.P.COOLERS.R.IRUBBER100mmM.P.CLAB BUILDINGIRUBBER100mmM.P.LABS.R.IRUBBER100mmM.P.LABS.R.IRUBBER100mmM.P.SERVER ROOMS.R.IRUBBER100mmM.P.UTILITY ROOMS.R.IRUBBER100mmM.P.	SCHEDULE         BUILDING         FLOOR       BASE       CEILING         ROOM NAME       FINISH       COLOUR       MATERIAL       SIZE       COLOUR       MATERIAL       FINISH         LAB       S.R.       RUBBER       100mm       M.P.       PRE-FINISHED         COOLER       S.R.       RUBBER       100mm       M.P.       PRE-FINISHED         CLAB BUILDING       FLOOR       BASE       CEILING       CEILING         LAB       S.R.       RUBBER       100mm       M.P.       PRE-FINISHED         SERVER ROOM       S.R.       RUBBER       100mm       M.P.       PRE-FINISHED         UTILITY ROOM       S.R.       RUBBER       100mm       M.P.       PRE-FINISHED	SCHEDULE         BUILDING         FLOOR       BASE       CEILING         ROOM NAME       FINISH       COLOUR       MATERIAL       SIZE       COLOUR       MATERIAL       FINISH       COLOUR         LAB       S.R.       Image: Colour and the col	SCHEDULE         BUILDING         FLOOR       BASE       CEILING       NORTH WALL         ROOM NAME       FINISH       COLOUR       MATERIAL       SIZE       COLOUR       MATERIAL       FINISH       COLOUR       MATERIAL         LAB       S.R.       IMATERIAL       SIZE       COLOUR       MATERIAL       FINISH       COLOUR       MATERIAL         COOLER       S.R.       IMATERIAL       100mm       M.P.       PRE-FINISHED       WHITE       GWB.         CLAB BUILDING       IMATERIAL       100mm       IMATERIAL       M.P.       PRE-FINISHED       WHITE       M.P.         LAB BUILDING       IMATERIAL       100mm       IMATERIAL       M.P.       PRE-FINISHED       WHITE       M.P.         LAB BUILDING       IMATERIAL       100mm       IMATERIAL       M.P.       PRE-FINISHED       WHITE       M.P.         LAB       S.R.       RUBBER       100mm       M.P.       PRE-FINISHED       WHITE       GWB.         SERVER ROOM       S.R.       RUBBER       100mm       M.P.       PRE-FINISHED       WHITE       GWB.         UTILITY ROOM       S.R.       RUBBER       100mm       M.P.       PRE-FINISHED <td>SCHEDULE         BUILDING       FLOOR       BASE       CEILING       NORTH WALL         ROOM NAME       FINISH       COLOUR       MATERIAL       SIZE       COLOUR       MATERIAL       FINISH       COLOUR       MATERIAL       FINISH         LAB       S.R.       RUBBER       100mm       M.P.       PRE-FINISHED       WHITE       GWB.       PAINT         COOLER       S.R.       RUBBER       100mm       M.P.       PRE-FINISHED       WHITE       M.P.       PRE-FINISHED         CLAB BUILDING       ELOOR       BASE       CEILING       NORTH WALL       M.P.       PRE-FINISHED       WHITE       M.P.       PRE-FINISHED         LAB       S.R.       RUBBER       100mm       CEILING       NORTH WALL       M.P.       PRE-FINISHED       WHITE       M.P.       PRE-FINISHED         LAB       S.R.       RUBBER       100mm       M.P.       PRE-FINISHED       WHITE       GWB.       PAINT         SERVER ROOM       S.R.       RUBBER       100mm       M.P.       PRE-FINISHED       WHITE       GWB.       PAINT         UTILITY ROOM       S.R.       RUBBER       100mm       M.P.       PRE-FINISHED       WHITE       GWB.</td> <td>SCHEDULE         BASE       CEILING       NORTH WALL         ROOM NAME       FINISH       COLOUR       MATERIAL       SIZE       COLOUR       MATERIAL       FINISH       OUNT       COLOUR         COLAB BUILDING       FLOOR       BASE       CEILING       NORTH WALL         LAB       S.R.       BASE       CEILING       NORTH WALL       SUBER       OUT         LAB</td> <td>SCHEDULEBUILDINGFLOORBASECEILINGEAST WALLFINISHCOLOURMATERIALSIZECOLOURMATERIALFINISHCOLOURMATERIALFINISHCOLOURMATERIALFINISHCOLOURMATERIALMATERIALSIZECOLOURMATERIALFINISHCOLOURMATERIALFINISHCOLOURMATERIALMATERIALMATERIALFINISHCOLOURMATERIALFINISHCOLOURMATERIALMAT</td> <td>SCHEDULE         BASE       CEILING       BASE value         ROOM NAME       FINOR       BASE       CEILING       NORTH WALL       FINISH       COLOUR       MATERIAL       SIR VALL         ROOM NAME       FINISH       COLOUR       MATERIAL       SIR VALL       FINISH       COLOUR       MATERIAL       FINISHE       MATERIAL       MATERIAL       FINISHE       MATERIAL       FINISHE       MATERIAL       FINISHE       MATERIAL       FINISHE       MATERIAL       FINISHE       MATERIAL       MATERIAL       MATERIAL       MATERIAL       MATERIAL       MATERIAL       MATERIAL       MATERIAL<td>SCHEDULE         BULDING         PEUCON       PECON       BASE       CEILING       NORTH WALL       FINISH       COLOUR       MATERIAL       SIZE       COLOUR       MATERIAL       FINISH       MA</td><td>SCHEDULE         BULDING         RIOR       BASE       CELING       CELING       CAST WALL       EAST WALL       SOUTH WALL         ROOM NAME       FINISH       COLOUR       MATERIAL       FINISH       MATERIAL       MATERIAL</td><td>SCHEDULE BUILDING FLOOR FINISH COLOUR MATERIAL SIZE COLOUR MATERIAL FINISH M.P. 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PRE-FINISHED</td><td>SCHEDULE         BASE       CELING       SCHENUS         COLON MARE       FINSH       COLON MATERIAL       SIN COLON       MATERIAL       SIN COLON       MATERIAL       SIN COLON       MATERIAL       FINSH       COLON       MATERIAL       FINSH       COLON       MATERIAL       FINSH       SIN COLON       MATERIAL       FINSH       SIN FI</td><td>SCHEDULE BUILDING FLOOR MATERIAL SIZE OCLOUR MATERIAL SIZE COLOUR MATERIAL FINSH FINSH</td></td>	SCHEDULE         BUILDING       FLOOR       BASE       CEILING       NORTH WALL         ROOM NAME       FINISH       COLOUR       MATERIAL       SIZE       COLOUR       MATERIAL       FINISH       COLOUR       MATERIAL       FINISH         LAB       S.R.       RUBBER       100mm       M.P.       PRE-FINISHED       WHITE       GWB.       PAINT         COOLER       S.R.       RUBBER       100mm       M.P.       PRE-FINISHED       WHITE       M.P.       PRE-FINISHED         CLAB BUILDING       ELOOR       BASE       CEILING       NORTH WALL       M.P.       PRE-FINISHED       WHITE       M.P.       PRE-FINISHED         LAB       S.R.       RUBBER       100mm       CEILING       NORTH WALL       M.P.       PRE-FINISHED       WHITE       M.P.       PRE-FINISHED         LAB       S.R.       RUBBER       100mm       M.P.       PRE-FINISHED       WHITE       GWB.       PAINT         SERVER ROOM       S.R.       RUBBER       100mm       M.P.       PRE-FINISHED       WHITE       GWB.       PAINT         UTILITY ROOM       S.R.       RUBBER       100mm       M.P.       PRE-FINISHED       WHITE       GWB.	SCHEDULE         BASE       CEILING       NORTH WALL         ROOM NAME       FINISH       COLOUR       MATERIAL       SIZE       COLOUR       MATERIAL       FINISH       OUNT       COLOUR         COLAB BUILDING       FLOOR       BASE       CEILING       NORTH WALL         LAB       S.R.       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GW</td> <td>SCHEDULE BUILDING ROOM NAME FINISH COLOUR MATERIAL SIZE COLOUR MATERIAL FINISH MALE FINISH MALE FINISHE FINISHE MALE FINISHE MALE FINISHE MALE FINISHE MALE FINISHE FINISHE FINISHE MALE FINISHE FINISHE MALE FINISHE FINISHE FINISHE MALE FINISHE FINISHE MALE FINISHE FINISHE FINISHE MALE FINISHE MALE FINISHE FINISHE FINISHE FINISHE FINISHE</td> <td>SCHEDULE BUILDING ACCAN AATERIAL SIZE COLOUR MATERIAL SIZE COLOUR MATERIAL FINISH MALP PRE-FINISHED WHITE MAP. PRE-FINISHED</td> <td>SCHEDULE         BASE       CELING       SCHENUS         COLON MARE       FINSH       COLON MATERIAL       SIN COLON       MATERIAL       SIN COLON       MATERIAL       SIN COLON       MATERIAL       FINSH       COLON       MATERIAL       FINSH       COLON       MATERIAL       FINSH       SIN COLON       MATERIAL       FINSH       SIN FI</td> <td>SCHEDULE BUILDING FLOOR MATERIAL SIZE OCLOUR MATERIAL SIZE COLOUR MATERIAL FINSH FINSH</td>	SCHEDULE         BULDING         PEUCON       PECON       BASE       CEILING       NORTH WALL       FINISH       COLOUR       MATERIAL       SIZE       COLOUR       MATERIAL       FINISH       MA	SCHEDULE         BULDING         RIOR       BASE       CELING       CELING       CAST WALL       EAST WALL       SOUTH WALL         ROOM NAME       FINISH       COLOUR       MATERIAL       FINISH       MATERIAL       MATERIAL	SCHEDULE BUILDING FLOOR FINISH COLOUR MATERIAL SIZE COLOUR MATERIAL FINISH M.P. PRE-FINISHED WHITE GWB. PAINT MALL MATERIAL FINISH M.P. PRE-FINISHED WHITE SCULTURE COLOUR MATERIAL FINISH M.P. PRE-FINISHED WHITE FINISHE WHITE GWB. PAINT MALL MATERIAL FINISH M.P. PRE-FINISHED WHITE GWB. PAINT MALL MATERIAL FINISH M.P. PRE-FINISHED WHITE GWB. PAINT MALL MATERIAL FINISH M.P. PRE-FINISHED WHITE GWB. PAINT MALL MATERIAL FINISHE M.P. PRE-FINISHE WHITE GWB. PAINT MALL MATERIAL FINISHE M.P. PRE-FINISHE M.P. PRE-FINISHE M.P. PRE-FINISHE WHITE GWB. PAINT MALL MATERIAL FINISH M.P. PRE-FINISHE M.P. PRE-FINISHE WHITE GWB. PAINT M.P. PRE-FINISHE WHITE GWB. PAINT M.P. PRE-FINISHE WHITE GWB. PAINT M. M.P. PRE-FINISHE M.P. PRE-FINISHE WHITE GWB. PAINT M.P. PRE-FINISHE WHITE GWB. PAINT M. M.P. PRE-FINISHE M.P. PRE-FINISHE WHITE GWB. PAINT M. GW	SCHEDULE BUILDING ROOM NAME FINISH COLOUR MATERIAL SIZE COLOUR MATERIAL FINISH MALE FINISH MALE FINISHE FINISHE MALE FINISHE MALE FINISHE MALE FINISHE MALE FINISHE FINISHE FINISHE MALE FINISHE FINISHE MALE FINISHE FINISHE FINISHE MALE FINISHE FINISHE MALE FINISHE FINISHE FINISHE MALE FINISHE MALE FINISHE FINISHE FINISHE FINISHE FINISHE	SCHEDULE BUILDING ACCAN AATERIAL SIZE COLOUR MATERIAL SIZE COLOUR MATERIAL FINISH MALP PRE-FINISHED WHITE MAP. PRE-FINISHED	SCHEDULE         BASE       CELING       SCHENUS         COLON MARE       FINSH       COLON MATERIAL       SIN COLON       MATERIAL       SIN COLON       MATERIAL       SIN COLON       MATERIAL       FINSH       COLON       MATERIAL       FINSH       COLON       MATERIAL       FINSH       SIN COLON       MATERIAL       FINSH       SIN FI	SCHEDULE BUILDING FLOOR MATERIAL SIZE OCLOUR MATERIAL SIZE COLOUR MATERIAL FINSH













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6



INSUL. INSULATED MAT'L MATERIAL MIN. MINUTES or MINIMUM MTL METAL NAT. NATURAL OBS. OBSCURED P.F.

PRE-FINISHED PT. PAINT T.B. THERMALLY BROKEN T.G. TRIPLE GLAZED TEMP. TEMPERED WD. WOOD









## EXTERIOR WINDOW TYPES:



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A.      Dublic Worke and     Travaux publics at	]
Government Services Canada Canada	
REAL PROPERTY SERVICES Pacific Region	
SERVICES IMMOBILIERS Région de Pacifique	
	_
numberTEN architectural group	
2 100% REVIEW 2017-11-30	-
Revision/ Revision         Description/Description         Date/Date           Client/client   <	
FISHERIES AND OCEANS, REAL PROPERTY, SAFETY AND SECURITY VANCOUVER, BC	
200-401 BURRARD ST.	
Project title/Titre du projet CENTER FOR AQUACULTURE & ENVIRONMENTAL RESEARCH	
<b>MODULAR LABS</b> 4160 Marine Dr, West Vancouver	
Consultant Signature Box Only	1
Designed by/Concept par	-
Drawn by/Dessine par	-
PWGSC Project Manager/Administrateur de Projets TPSGC	-
PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC PREETIPAL PAUL	-
Drawing title/ Litre du dessin	
DOOR,WINDOW, & FINISH SCHEDULES, EQUIPMENT TO BE RELOCATED	
Project No./No. du projet Sheet/ Feuille Revision no./	-
La Révision no.	

GEI	NER/	AL	10.	IF ONLY ONE VALUE IS GIVEN FOR A LOAD, CONSIDER IT LIVE LOAD
1.	THIS	S A METRIC PROJECT. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN MILLIMETERS	11.	SNOW: $S_{r} = 0.2 k Pa$ $S_{r} = 0.2 k Pa$ $S_{r} = 1.0 k Pa$
<b>,</b>	AND A "WSP-	ALL FORCES ARE IN METRIC UNITS. S" REFERS TO WSP CANADA STRUCTURAL CONSULTANT		MINIMUM UNFACTORED SNOW LOAD = 2.1 kPa x ls
 }.	PRIO	R TO CONSTRUCTION, REVIEW STRUCTURAL DRAWINGS IN CONJUNCTION WITH DRAWINGS	12.	LATERAL LOADS ON THE FOUNDATION ARE DETERMINED BASED ON
	PROV	IDED BY ALL OTHER CONSULTANTS.	13	BELOW.
			10.	q50 = 0.48 kPa lw (ULS) = 1.0 lw (SLS) = 0.75
	FROM	WSP-S.		BUILDING IS: LOW RISE
	EXIST 24X72	ING STRUCTURAL INFORMATION IS BASED UPON SEALED PREFABRICATED BUILDING MODEL		TERRAIN TYPE: OPEN
	VERIF	Y EXISTING DIMENSIONS AND CONDITIONS ON SITE PRIOR TO CONSTRUCTION.		
	USE 1	HESE DRAWINGS ONLY FOR THE PURPOSE IDENTIFIED IN THE REVISIONS COLUMN. DO NOT		INTERNAL PRESSURE CATEGORY: 2 WIND LOAD AT GRADE LEVEL FOR DESIGN OF OVERALL BUILDING L
	DO N	TRUCT FROM THESE DRAWINGS UNLESS MARKED ISSUED FOR CONSTRUCTION . DT USE INFORMATION ON THESE DRAWINGS FOR ANY OTHER PROJECT OR WORKS.		SYSTEM: 1.2 kPa.
	DO NO	DT SCALE THESE DRAWINGS.		FACTORED BASE SHEARS & OVERTURNING MOMENTS:
	ALL S	ECTIONS, DETAILS AND STATEMENTS NOTED AS "TYPICAL" APPLY TO LIKE / SIMILAR		V(NS) = 45 kN
	REFE	R TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR WATERPROOFING, SEALERS,		M(NS) = 239  kNm
	ETC. REFE	R TO GEOTECHNICAL LETTER AND ARCHITECTURAL / CIVIL DRAWINGS AND SPECIFICATIONS		M(EW) = 239  kNm
	DRAW	ILE SOLE WORKS.	14.	Sa(0.2) = 0.818 PGA = 0.356 leFaSa(0.2) = 0.79 Sa(0.5) = 0.721 Rd = 1.0
	WORł EXEC	S FOR WHICH THE CONTRACTOR IS RESPONSIBLE AND WHICH MAY BE REQUIRED FOR JTION OF THE PROJECT, INCLUDING TEMPORARY SHORING, BRACING, GUYS AND TIE DOWNS.		Sa(1.0) = 0.41 Ro = 1.0 SITE CLASSIFICATION = D
	THE C	ONTRACTOR TO ESTABLISH CONSTRUCTION PROCEDURE AND SEQUENCE TO ENSURE TY OF THE WHOLE STRUCTURE AND ALL ITS COMPONENTS DURING ERECTION.		
	EXTE	NT OF ALL TEMPORARY SHORING FOR EXCAVATION WHICH MAY BE REQUIRED IS NOT		SEISMIC FORCE RESISTING SYSTEM (SFRS): ALUMINUM MOMENT FI
	NECE	SSARILY SHOWN ON STRUCTURAL DRAWINGS, CONTRACTOR TO DETERMINE.		V(NS) = 133  kN
	PROF	ESSIONAL ENGINEER RETAINED BY THE CONTRACTOR, LICENSED IN THE PLACE WHERE THE		M(NS) = 615 kNm
	PROJ	ECT IS LOCATED. OR BOLTS AND OTHER EMBEDDED ITEMS ARE DESIGNED FOR LOADS ACTING ON THE		V(EW) = 133 kN M(EW) = 615 kNm
	COMF	O'LETED STRUCTURE ONLY AND ARE NOT TO BE USED OR RELIED UPON FOR TEMPORARY	<b>.</b>	
	CONT	RACTOR'S ENGINEER RESPONSIBLE FOR THE ERECTION PROCEDURES.	SH	OP DRAWINGS
	CONS ON DI	TRUCTION LOADS ON COMPLETED STRUCTURE NOT TO EXCEED DESIGN LOADS INDICATED RAWINGS.	1.	REFER TO SPECIFICATIONS FOR SHOP DRAWINGS WHICH NEED TO
	UNLE	SS SHOWN ON STRUCTURAL DRAWINGS, DESIGN OF NON STRUCTURAL AND SECONDARY	2.	REVIEW OF SHOP DRAWINGS BY WSP-S IS ON A SAMPLING BASIS, F STRUCTURAL CONTRACT DOCUMENTS. IT IS NOT A DETAILED CHEC
	NOT	VITHIN THE SCOPE OF SERVICES PROVIDED BY WSP-S. SUCH ELEMENTS INCLUDE (BUT ARE		CONSTRUED AS RELIEVING THE CONTRACTOR OF HIS RESPONSIBIL ACCURATE AND IN CONFORMITY WITH ALL THE CONTRACT DOCUM
	NOT L	IMITED TO) THE FOLLOWING:		DRAWINGS AND TO COORDINATE WORK OF INTERFACING TRADES INTERFACING PRODUCTS.
	ı. 2.	PARTITIONS: MASONRY, GLASS, WOOD AND STEEL STUDS, PREFABRICATED PANELS	3.	REVIEW OF SHOP DRAWINGS DOES NOT IMPLY ANY CHANGE IN AN
	3.	ARCHITECTURAL PRECAST, PRECAST STAIRS.		PROFESSIONALS' RESPONSIBILITIES RELATED TO DESIGN OF SPEC SPECIFICATIONS.
	4.	EXTERIOR CLADDING: PRECAST PANELS, METAL WALL SYSTEMS, CURTAIN WALLS AND	4.	ALLOW A MINIMUM OF 10 WORKING DAYS FOR REVIEW OF EACH SU
	5			SUBMIT IN GENERAL CONFORMITY WITH THE SEQUENCE OF CONST
	6.	SUPPORTS FOR MECHANICAL AND ELECTRICAL EQUIPMENT: HANGERS, BRACES, POSTS,	5.	AFTER REVIEW, THE DRAWINGS WILL BE STAMPED AND RETURNED FABRICATION UNTIL RETURNED SHOP DRAWINGS HAVE BEEN EXAM
		RACKS, SLEEPERS, SEISMIC RESTRAINTS, SUPPORT PLATFORMS AND PADS, SERVICE PLATFORMS.	6.	SHOP DRAWINGS MARKED "REVIEWED" CAN BE USED FOR FABRICA
	7.	SUPPORTS AND SEISMIC RESTRAINTS FOR OTHER EQUIPMENT, SUCH AS MEDICAL AND	7	
	8.	SPORTS EQUIPMENT.	7.	REVISIONS NOTED ARE IMPLEMENTED. DO NOT MAKE ANY FURTHE
	9.	LANDSCAPING ELEMENTS: WALLS, CURBS, BENCHES, PLANTERS, WATER FEATURES.	8	THESE DRAWINGS WITHOUT NOTIFYING THE CONSULTANT.
	10.	LIGHT POLES, FLAG POLES, SIGNS AND THEIR FOUNDATIONS.		BE RESUBMITTED FOR ADDITIONAL REVIEW PRIOR TO FABRICATION TO THE PREVIOUS SUBMISSION TO BE CLEARLY IDENTIFIED ON THE
	WSP- SUPP	S WILL NOT REVIEW DESIGN, DETAILING AND INSTALLATION OF THESE ELEMENTS, FOR WHICH LIERS AND / OR SPECIALTY PROFESSIONAL ENGINEERS ARE RESPONSIBLE: THE ONLY REVIEW	9.	SHOP DRAWINGS MARKED "REVIEWED FOR IMPACT ON BASE STRU
	PROV	IDED (WHERE APPLICABLE) WILL BE FOR IMPACT ON THE BASE BUILDING STRUCTURE.		WHICH ARE NOT WITHIN THE SCOPE OF STRUCTURAL CONSULTING BEHAVIOUR OF THE BASE STRUCTURE. WSP-S WILL NOT REVIEW D
	MAINT	AIN A QUALITY CONTROL PLAN FOR STRUCTURAL WORK, AND MAKE IT AVAILABLE TO THE		ASSUMES THAT THE INDICATED WEIGHTS AND ALL OTHER LOADS IN STRUCTURE ARE CORRECTLY IDENTIFIED BY THE DESIGNER / SUPP
	CONS	ULTANT UPON REQUEST. AT A MINIMUM, THE PLAN TO INCLUDE:	10.	DRAWINGS MARKED "NOT REVIEWED" SHOW WORKS WHICH ARE N
	1. 2	NAMES OF PERSONNEL RESPONSIBLE FOR EXECUTION OF THE PLAN.	11.	EXCEPT FOR EXCAVATION SHORING (WHICH WILL BE REVIEWED FO
	Ζ.	AND ASSOCIATED DOCUMENTATION PROCEDURES.		STRUCTURE ONLY), WSP-S WILL NOT REVIEW DESIGN AND IMPLEMI WORKS, NOR ASSESS IMPACT OF THESE WORKS ON THE BASE STR
	3.	PROGRAM FOR CONFIRMING AND DOCUMENTING COMPLIANCE WITH REQUIRED SUB-TRADE QUALIFICATIONS AND QUALIFICATIONS OF THEIR INDIVIDUAL EMPLOYEES AND		/ OR THE PROFESSIONAL ENGINEER ENGAGED BY THE CONTRACTO STRUCTURE IS NOT ADVERSELY AFFECTED BY THE TEMPORARY W
		SUB-CONTRACTORS.		PROCESS AND THAT TEMPORARY LOADS DO NOT EXCEED THE DES
	4.	PROCEDURES FOR REVIEWING FIELD COMPLIANCE WITH CONSTRUCTION DOCUMENTS, INCLUDING DOCUMENTATION OF LOCATIONS REVIEWED, PHOTOGRAPHS TAKEN AND	12.	DO NOT USE SHOP DRAWINGS AS A MEANS TO PROPOSE SUBSTITU
		TIMING OF REVIEW. THE CONTRACTOR'S REVIEW TO BE COMPLETED PRIOR TO REVIEW BY THE CONSULTANT.		THE MATERIALS, PRODUCTS OR DETAILS INDICATED IN CONTRACT DRAWINGS WILL BE MARKED "REVISE AND RESUBMIT".
	5.	PROCEDURES FOR RECTIFYING DEFICIENCIES NOTED BY THE CONTRACTOR,	13.	PROVIDE FINAL RECORD DRAWINGS AFTER ALL CORRECTIONS ARE
	FOR I	SDE-CONTRACTORS, CONSULTANTS AND INDEPENDENT INSPECTION AGENCIES.	FIF	I D REVIEW
	IN CAS	SE OF DISCREPANCY BETWEEN GENERAL NOTES, DRAWINGS AND SPECIFICATIONS, COMPLY	14	
	WITH	THE MOST STRINGENT REQUIREMENTS.	14.	STRUCTURAL WORKS DETAILED ON THESE DRAWINGS FOR GENER
	SIGN	DATA		TO IMPLEMENT AND MAINTAIN A QUALITY CONTROL PROGRAM, AND
	STRU SUPP	CTURAL DESIGN IS IN ACCORDANCE WITH THE 2015 NATIONAL BUILDING CODE (NBC), LEMENTED BY THE USER'S GUIDE - NBC 2015 STRUCTURAL COMMENTARIES.	15.	CONSTRUCTION REVIEW REPORTS WILL OUTLINE ANY DEFICIENCIE
	STEEL	ELEMENTS ARE DESIGNED PER CSA S16-09 - LIMIT STATE DESIGN OF STEEL STRUCTURES.	16.	ASSIST WSP-S DURING FIELD REVIEW, AND PROVIDE SAFE ACCESS
		ALUES FOR CLIMATIC DATA USED IN THE DETERMINATION OF DESIGN LOADS HAVE BEEN	17.	CHECK THE WORK PRIOR TO FIELD REVIEW TO CONFIRM IT IS COM
	BASE	O ON THE USE AND OCCUPANCY, THE BUILDING IS DESIGNED TO THE REQUIREMENTS OF A	18.	BRING TO THE ATTENTION OF WSP-S ANY DEFICIENCIES FOUND IN
	NORM	IAL IMPORTANCE CATEGORY.		PROPOSAL FOR REMEDY. WSP-S WILL DECIDE WHAT CORRECTIVE ISSUE THE NECESSARY INSTRUCTIONS.
	SELF STRU	WEIGHT (SWT) IS DUE TO THE WEIGHT OF THE STRUCTURE ITSELF. IT VARIES WITH THE CTURAL SYSTEM.	19.	PROVIDE REASONABLE NOTICE (NOT LESS THAN 24 HOURS) TO ALL
	SUPE	RIMPOSED DEAD LOADS (SDL) ARE NON-STRUCTURAL DEAD LOADS DUE TO NON-STRUCTURAL		
	ETC.	INVO, FINISTILO, FARTITIONO, ROOFING INATERIALO, OUOPENDED EQUIPMENT, PAVERO, SUIL,	20.	SCHEDULE REVIEW WORK TO OCCUR DURING NORMAL BUSINESS F
	DEAD	LOAD (DL) IS THE SELF WEIGHT OF THE STRUCTURE PLUS THE SUPERIMPOSED DEAD LOAD.	21.	ORGANIZE FOR FIELD REVIEW OF ALL PROPRIETARY PRODUCTS AN
	LIVE I	OAD (LL) REDUCTION HAS NOT BEEN USED.		DESIGNED BY SPECIALTY ENGINEERS. THE REVIEW TO BE BY THE ENGINEERS DESIGNATED BY THE ENGINEERS DESIGNATED BY THE ENGIN
	UNLE LOAD	SS OTHERWISE NOTED, DESIGN LOADS SHOWN ON DRAWINGS ARE SPECIFIED (UNFACTORED) S, TO BE USED FOR ULS DESIGN. FOR SLS DESIGN, THESE LOADS CAN BE REDUCED BY		DESIGN AND LICENSED IN THE PLACE WHERE THE PROJECT IS LOC REVIEW REPORTS FOR CONSULTANT'S RECORD.

- OP DRAWINGS DOES NOT IMPLY ANY CHANGE LS' RESPONSIBILITIES RELATED TO DESIGN OF
- IUM OF 10 WORKING DAYS FOR REVIEW OF EAC . ALLOW MORE TIME WHEN LARGE QUANTITIES IERAL CONFORMITY WITH THE SEQUENCE OF C
- , THE DRAWINGS WILL BE STAMPED AND RETU JNTIL RETURNED SHOP DRAWINGS HAVE BEEN
- GS MARKED "REVIEWED" CAN BE USED FOR FA ADDITIONS TO THESE DRAWINGS WITHOUT NOT
- GS MARKED "REVIEWED AS NOTED" CAN BE US ED ARE IMPLEMENTED. DO NOT MAKE ANY FUI NGS WITHOUT NOTIFYING THE CONSULTANT.
- GS MARKED "REVISE AND RESUBMIT" REQUIRE ED FOR ADDITIONAL REVIEW PRIOR TO FABRIC DUS SUBMISSION TO BE CLEARLY IDENTIFIED O
- GS MARKED "REVIEWED FOR IMPACT ON BASE T WITHIN THE SCOPE OF STRUCTURAL CONSU THE BASE STRUCTURE. WSP-S WILL NOT REVI THE INDICATED WEIGHTS AND ALL OTHER LO RE CORRECTLY IDENTIFIED BY THE DESIGNER /
- RKED "NOT REVIEWED" SHOW WORKS WHICH A CONSULTING SERVICES AND DO NOT IMPACT TI
- XCAVATION SHORING (WHICH WILL BE REVIEWI NLY), WSP-S WILL NOT REVIEW DESIGN AND IMP ASSESS IMPACT OF THESE WORKS ON THE BAS ESSIONAL ENGINEER ENGAGED BY THE CONTR NOT ADVERSELY AFFECTED BY THE TEMPORA THAT TEMPORARY LOADS DO NOT EXCEED TH DRAWINGS.
- HOP DRAWINGS AS A MEANS TO PROPOSE SUB 5, PRODUCTS OR DETAILS INDICATED IN CONTF L BE MARKED "REVISE AND RESUBMIT".
- RECORD DRAWINGS AFTER ALL CORRECTION

## M

- ROVIDE PERIODIC FIELD REVIEW OF A REPRESE WORKS DETAILED ON THESE DRAWINGS FOR G CUMENTS. THESE REVIEWS DO NOT REPLACE AND MAINTAIN A QUALITY CONTROL PROGRAM F THE CONTRACTOR'S WORK.
- N REVIEW REPORTS WILL OUTLINE ANY DEFICI
- DURING FIELD REVIEW, AND PROVIDE SAFE AC ORK PRIOR TO FIELD REVIEW TO CONFIRM IT IS CT DOCUMENTS.
- ATTENTION OF WSP-S ANY DEFICIENCIES FOUN R REMEDY. WSP-S WILL DECIDE WHAT CORREC CESSARY INSTRUCTIONS.
- SONABLE NOTICE (NOT LESS THAN 24 HOURS) T
  - CTURAL STEEL BEFORE COVERING
- IEW WORK TO OCCUR DURING NORMAL BUSIN FIELD REVIEW OF ALL PROPRIETARY PRODUC SPECIALTY ENGINEERS. THE REVIEW TO BE BY R BY OTHER ENGINEERS DESIGNATED BY THE I CENSED IN THE PLACE WHERE THE PROJECT IS RTS FOR CONSULTANT'S RECORD.

PRODUCTS AND OTHER STRUCTURAL O BE BY THE ENGINEERS RESPONSIB BY THE ENGINEERS RESPONSIBLE FO OJECT IS LOCATED. SUBMIT CONSTR	. Works Ile For Dr The Uction	STR	UCTURA
OVERING UP OR PLACING ALUMINUM AL BUSINESS HOURS.	BUILDING	10. 11.	DO NOT BEND
IOURS) TO ALLOW FOR THE FIELD RE	VIEW OF		TIMES THE HOL TIGHTEN ANCH
IES FOUND IN THE WORK TOGETHER	WITH A AND	9.	WHEN OBSTRU DEPTH, RELOC LOCATIONS BE
SAFE ACCESS TO WORK AREAS AS R	EQUIRED. DANCE	δ.	ANCHOR CAPA PROXIMITY TO CLEARANCES A
Y DEFICIENCIES FOUND.	A	ı.	INSTALLATION SIZES INSTALL
REPRESENTATIVE SAMPLE OF THE S FOR GENERAL CONFORMANCE WIT EPLACE THE CONTRACTOR'S RESPON	H ISIBILITY	б. 7	ARRANGE FOR OF ALL THE PR
		5.	WHERE CORE
RECTIONS ARE MADE.		4.	USE DRILLING A RECOMMENDA DIAMETERS NO
OSE SUBSTITUTIONS OR ALTERNATIV IN CONTRACT DOCUMENTS. SUCH SH "	ES TO OP	3.	CONCRETE TO
CEED THE DESIGN LOADS INDICATED	ON	2.	ANCHORS LOC/ STEEL.
REVIEWED FOR IMPACT ON THE BASI I AND IMPLEMENTATION OF ANY TEMI THE BASE STRUCTURE. THE CONTRA E CONTRACTOR MUST ENSURE THAT EMPORARY WORKS AND CONSTRUCT	E PORARY CTOR AND THE BASE TON	<b>POS</b> <sup>1</sup> .	T-INSTA ANCHORAGE T
WHICH ARE NOT WITHIN THE SCOPE	OF RE.	13.	PROTECT CON METHODS IN A
IOT REVIEW DESIGN OF THESE WORK THER LOADS IMPOSED ON THE BASE SIGNER / SUPPLIER OF THESE ELEME	S AND NTS.	12.	PROTECT CON COLD WEATHE
ON BASE STRUCTURE ONLY" SHOW W	ORKS T	11.	PLACE CONCRI ALL CONCRETE
REQUIRE SUBSTANTIAL REVISIONS AN ) FABRICATION. ALL CHANGES AND AI TIFIED ON THE RESUBMITTED DRAWI	ID MUST DDITIONS NGS.	10.	CONVEY CONC SEPARATION C CONSOLIDATE
IN BE USED FOR FABRICATION AFTER ANY FURTHER CHANGES OR ADDITIC TANT.	THE DNS TO	9.	CEMENTING MA
FOR FABRICATION. DO NOT MAKE AN OUT NOTIFYING THE CONSULTANT.	lΥ	8	STRENGTH, AIF
ND RETURNED. DO NOT COMMENCE VE BEEN EXAMINED.		7.	REFER TO CSA
V OF EACH SUBMISSION OF SHOP DR/ ANTITIES OF SHOP DRAWINGS ARE SU NCE OF CONSTRUCTION INTENDED.	AWINGS IN IBMITTED.		LOCK BLOCK FO
CHANGE IN ANY OTHER CONSULTANTS SIGN OF SPECIFIC ITEMS AS OUTLINE	S' OR D BY THE		El
RACT DOCUMENTS, TO REVIEW SHOP CING TRADES AND MANUFACTURE OF		6.	UNLESS NOTE
EING BASIS, FOR GENERAL CONFORM ETAILED CHECK AND MUST NOT BE S RESPONSIBILITY TO MAKE THE WOR	ALLY WITH	4. 5.	CONCRETE TO NOMINAL MAXI
	VIEW.	3.	CEMENT TO BE
		2.	CONTRACTOR / PROPERTIES M PERFORMANCE
		1.	CONCRETE IS S CSA A23.1. THE DOCUMENTATI
S:		CAS	T-IN-PLA
IM MOMENT FRAMES (ASSUMED)		TZ.	DURING CONST
<b>1</b> = D		11. 12	
		10.	LOCATE ALL EX
		о. 9	THE LONGER C
J.		8.	ALL CASES WH
LL BUILDING LATERAL LOAD RESISTIN	IG	6.	IF THE ASSUME ELEVATION IND AND PROVIDE I
		5.	STRUCTURAL I RESISTANCE IS ALL BEARING S
		4.	CONSTRUCT AL BUT NOT ABOV
5		3.	ASSUMED FOO 70 kPa AT ULS ( 50 kPa AT SLS (
NED BASED ON THE WIND AND SEISM	IC DATA	2.	REFER TO THE CONDITIONS, F PREPARATION.
Is (ULS) = 1.0 Is (SLS) =	= 0.9	1.	STRUCTURAL E

0 10 20 30 40 50 60 70 80 90 100mm

### FOUNDATIONS DESIGN IS BASED ON THE GEOTECHNICAL LETTER PREPARED BY: THURBER LTD. DATED: DECEMBER 11, 2017. E GEOTECHNICAL LETTER FOR DETAILED INFORMATION ON GEOTECHNICAL FOUNDATION RECOMMENDATIONS, AND FOR ALL EARTHWORK INCLUDING SUBGRADE OTING BEARING RESISTANCE: (ULTIMATE LIMIT STATES DESIGN)

(SERVICEABILITY LIMIT STATES DESIGN)

- LL FOOTINGS ON STRATA CAPABLE TO PROVIDE THE BEARING RESISTANCE NOTED, VE THE ELEVATIONS INDICATED ON DRAWINGS.
- DRAWINGS SHOW FOOTINGS AT ELEVATIONS WHERE THE REQUIRED BEARING S ANTICIPATED. GEOTECHNICAL CONSULTANT TO REVIEW AND APPROVE IN WRITING 7. SURFACES PRIOR TO CONSTRUCTING FOOTINGS.
- IED BEARING RESISTANCE IS NOT OBTAINED AT THE UNDERSIDE OF FOOTING DICATED ON DRAWINGS, EXTEND EXCAVATION UNTIL COMPETENT SOIL IS REACHED, LEAN CONCRETE FILL TO UNDERSIDE OF FOOTING.
- . 50 (2") DEEP MUD SLAB AS REQUIRED TO PROTECT BOTTOM OF EXCAVATION, AND IN HERE RECOMMENDED IN GEOTECHNICAL REPORT OR SHOWN ON DRAWINGS.
- RWISE NOTED, THE LONGER DIMENSION OF BLOCK FOOTINGS TO BE PARALLEL TO COLUMN DIMENSION.
- RWISE NOTED, CENTRE FOOTINGS UNDER CENTROID OF COLUMNS.
- XISTING UNDERGROUND SERVICES PRIOR TO EXCAVATION.
- TION (IF REQUIRED) DRAINED AND FREE OF WATER AT ALL TIMES. DTINGS AND ADJACENT SOIL AGAINST FREEZING AND FROST ACTION AT ALL TIMES STRUCTION.

## ACE CONCRETE

- SPECIFIED PER ALTERNATIVE 1 PERFORMANCE SPECIFICATION, AS OUTLINED IN E CONTRACTOR AND THE CONCRETE SUPPLIER TO MEET ALL CERTIFICATION, ION, AND QUALITY CONTROL REQUIREMENTS.
- AND CONCRETE SUPPLIER TO ENSURE THAT PLASTIC AND HARDENED MIX MEET SITE REQUIREMENTS FOR PLACING, FINISHING AND THE SPECIFIED E REQUIREMENTS.
- E PORTLAND CEMENT TYPE GU UNLESS NOTED OTHERWISE OR REQUIRED BY ASS.
- BE NORMAL DENSITY (MIN. 2300 kg/m3) UNLESS NOTED OTHERWISE.
- (IMUM SIZE OF COARSE AGGREGATE TO BE 20 (3/4") UNLESS NOTED OTHERWISE.
- ED OTHERWISE, CONCRETE TO BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

ELEMENT	COMPRESSIVE STRENGTH (MPa) AT 28 DAYS (SEE NOTE #3 BELOW)	EXPOSURE CLASS	SPECIAL REQUIREMENTS & REMARKS		
LOCK BLOCK FOOTINGS	20 MPa	F-2	DESIGNED AND SUPPLIED BY OTHERS		
LEAN CONCRETE, MUDSLABS	10	N			
UNSHRINKABLE FILL	0.4 MAX.				

- A A23.1 FOR THE MAXIMUM WATER/CEMENT RATIO, MINIMUM COMPRESSIVE IR CONTENT, CURING REQUIREMENTS, CHLORIDE ION PENETRABILITY AND EMENT TYPES TO MEET THE REQUIREMENTS FOR THE NOTED EXPOSURE CLASS.
- IRED BY SPECIFICATIONS, PROVIDE MINIMUM AMOUNT OF SUPPLEMENTAL ATERIALS SPECIFIED FOR THE OVERALL PROJECT.
- WATER TO CONCRETE ON SITE.
- CRETE FROM TRUCK TO FINAL LOCATION BY METHODS WHICH WILL PREVENT OR LOSS OF MATERIAL. MAXIMUM FREE FALL NOT TO EXCEED 1.5m (5'-0"). E CONCRETE USING MECHANICAL VIBRATORS.
- RETE AS CLOSE AS POSSIBLE TO FINAL LOCATION TO AVOID SEGREGATION. VIBRATE
- VCRETE FROM FREEZING. DO NOT PLACE CONCRETE AGAINST FROZEN GROUND. USE ER CONCRETING METHODS IN ACCORDANCE WITH CSA-A23.1.
- NCRETE FROM EXCESSIVE HEAT AND DRYING. USE HOT WEATHER CONCRETING ACCORDANCE WITH CSA-A23.1.

## ALLED ANCHORS AND DOWELS

- TO CONCRETE TO BE AS NOTED ON DRAWINGS.
- CATED OUTSIDE THE BUILDING ENVELOPE'S VAPOUR BARRIER TO BE STAINLESS
- D BE MINIMUM 28 DAYS OLD AT THE TIME OF ANCHOR INSTALLATION.
- AND INSTALLATION TOOLS AND PROCEDURES PER MANUFACTURER'S ATIONS. DO NOT CORE DRILL UNLESS SPECIFICALLY NOTED ON DRAWINGS. HOLE OT TO EXCEED THOSE REQUIRED BY MANUFACTURER.
- DRILLING IS SPECIFIED, CLEAN AND ROUGHEN HOLES PER MANUFACTURER'S ATION.
- R THE ANCHOR MANUFACTURER TO CONDUCT ON SITE TRAINING FOR INSTALLATION RODUCTS SPECIFIED, AND FOR ALL CONDITIONS ENCOUNTERED.
- R A MANUFACTURER'S TECHNICAL REPRESENTATIVE TO BE PRESENT DURING I OF FIRST FEW ANCHORS. SUBMIT SITE REPORTS INDICATING ANCHOR TYPES AND LED, LOCATIONS AND INSTALLERS' NAMES.
- ACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND THEIR ) CONCRETE EDGES; THEREFORE, ALL ANCHORS MUST BE INSTALLED WITH AND EDGE DISTANCES INDICATED ON DRAWINGS
- UCTIONS PREVENT DRILLING HOLES IN SPECIFIED LOCATIONS TO THE REQUIRED CATE AT NO EXTRA COST TO THE CONTRACT. OBTAIN WSP-S APPROVAL OF NEW EFORE DRILLING; MODIFICATIONS TO CONNECTED MEMBERS AND ADDITIONAL OWELS MAY BE REQUIRED. FILL ABANDONED HOLES WHICH ARE CLOSER THAN 3 DLE DIAMETER FROM THE RELOCATED ANCHORS WITH HILTI HY-200 ADHESIVE. DO NOT HORS UNTIL THE ADHESIVE HAS FULLY CURED.
- POST INSTALLED DOWELS AND RODS AFTER INSTALATION.
- ) TO PLATES FASTENED WITH ADHESIVE ANCHORS AFTER THE ADHESIVE IS PLACED.

## AL STEEL

- CONFORM TO CSA S16. 1.
- MATERIALS: TO CSA G40.21 UNLESS OTHERWISE NOTED, WITH THE FOLLOWING GRADES: 2.

CHANNELS:	350W
PLATES, BARS:	300W
ANCHOR RODS:	STAIN MPA

SHIM PLATES:

3

300W STAINLESS S MPA YIELD S STAINLESS ST

- DETAILS ON STRUCTURAL DRAWINGS SHOW DESIGN INTENT. DETAILING, FABRICATION, AND ERECTION REQUIREMENTS.
- DO NOT CUT HOLES OR OTHERWISE MODIFY STRUCTURAL MEN 4.
- IF STRUCTURAL STEEL IS IN DIRECT CONTACT WITH GROUND, 6.
- PROVIDE ALL ERECTION BRACING REQUIRED TO KEEP THE ST DURING CONSTRUCTION.
- DO NOT APPLY LATERAL LOADS TO MEMBERS UNLESS APPROV

ABBREVIAT	IONS	
AB	-	ANCH
ALT	-	ALTEF
APPROX	-	APPR
ARCH	-	ARCH
вот	-	BOTTO
BP	-	BASE
BS	-	BOTH
СР	-	COMP
C/W	-	COMP
DWG	-	DRAW
(E)	-	EXIST
EF	-	EACH
EL	-	ELEVA
EW	-	EACH
FS	-	FAR S
GALV	-	GALVA
HORIZ	-	HORIZ
LG	-	LONG
MAX	-	MAXIN
MIN	-	MINIM
NS	-	NEAR
NTS	-	NOT T
OC	-	ON CE
SS	-	STAIN
STD	-	STAN
TYP	-	TYPIC
U/N	-	UNLES
U/S	-	UNDE
VERT	-	VERTI

	Public Works and Travaux publics et Government Services Services gouvernementaux Canada Canada	
LESS STEEL TO ASTM F593 GROUP 1 MIN 206 YIELD STRENGTH	REAL PROPERTY SERVICES Pacific Region SERVICES IMMOBILIERS	
LESS STEEL ITENT. REFER TO SPECIFICATIONS FOR		
RAL MEMBERS ON SITE.		
OUND, PROTECT WITH EPOXY PAINT.		
THE STRUCTURE STABLE AND IN ALIGNMENT	JOB No. 171-17110-00	
APPROVED BY THE CONSULTANT.		
ANCHOR BOLT ALTERNATE APPROXIMATELY ARCHITECT BOTTOM BASE PL BOTH SIDES COMPLETE PENETRATION WELD COMPLETE WITH DRAWING EXISTING		
EACH FACE ELEVATION		
EACH WAY FAR SIDE		
GALVANIZED		
LONG		
MAXIMUM MINIMUM		
NEAR SIDE NOT TO SCALE		
ON CENTER STAINLESS STEEL		
STANDARD		
UNLESS NOTED		
UNDERSIDE VERTICAL		
	5	
	2	
	0 TENDER 2017.	12.18
	Revision/ Description/Description Date/ Revision Description/Description Date/ Client/client	/Date
	FISHERIES AND OCEANS, REAL PROPERTY, SAFETY AND SECURITY VANCOUVER, BC	
	200-401 BURRARD ST.	
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	MODULAR LABS	
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	RESEARCH	
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	CP	
	RCM/2017.12.08 PWGSC Project Manager/Administrateur de Projets TPSGC	
	 Regional Manager, Architectural and Engineering Services	GC
	vestionnaire regionale, Services d'architectural et de génie, TPS	
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![](_page_18_Figure_0.jpeg)

HEAT REG	HEAT RECOVERY VENTILATOR SCHEDULE														
				EXT. STATIC		EFFICIENCY									
TAG	LOCATION	SERVICE	I/s / cfm	PRESS. Pa / in	SONES		O/A EAT °C / °F	E/A EAT °C / °F	S/A LAT °C / °F	SENSIBLE	TOTAL				
	FEED LAB	OUTDOOR AIR	155 / 330	80 / 0.33	15		67 / 20	22.2 / 72	147 / 585	70.0%	74.0%				
110-100	CEILING	EXHAUST AIR	155 / 330	80 / 0.33	1.5	WINTER	-0.7 / 20	22.2   12	14.7 / 50.5	70.076	74.070				
	ACOUSTIC LAB	OUTDOOR AIR	150 / 315	80 / 0.33	15		67 / 20	22.2 / 72	1/7 / 585	70.0%	7/ 0%				
1100-103	CEILING	EXHAUST AIR	150 / 315	80 / 0.33	1.0		-0.7 / 20	22.2 / 12	14.7 / 50.5	10.0%	74.0%				

NOTE:

1. INTERNAL UNIT COMPLETE WITH VIBRATION ISOLATION, FLEXIBLE CONNECTIONS, FILTERS, CROSSFLOW CORE, MOTORIZED DAMPERS INCLUDING BYPASS DAMPERS FOR FREE COOLING.

### EVAPORATOR AND CONDENSING UNIT SCHEDULE

		COOLING	EVAPORATOR (INDOOR) UNIT										
TAG	SERVICE	SENSIBLE kW / MBH	TYPE	AIR FLOW L/s / cfm	NO. OF FANS	Motor HP	VOLTS	PHASE	TYPE	MOTOR HP	VOLTS	PHASE	NOTE
E-100 CU-100	FEED LAB COOLER	1.3 / 4.5	LOW PROFILE	450 / 950	1	1/15	120	1	AIR COOLED	1/2	208	1	1, 2

NOTE:

1. R-404a REFRIGERANT (HCFC REFRIGERANTS SHALL NOT BE USED).

2. COOLER UNITS SHALL BE RATED AT: EVAPORATOR: EVAP TEMP: -4°C [25°F], BOX TEMP: 15°C [59°F].

CONDENSER: EVAP TEMP: -4°C [25°F], AMBIENT TEMP: 32°C [90°F].

### GRILLE, REGISTER AND DIFFUSER SCHEDULE

TAG	TYPE	BORDER	MATERIAL	CORE STYLE	LOUVRE ORIENT.	VOLUME DAMPER	FASTENING	FINISH
SR1	SUPPLY GRILLE / REGISTER	NOTE 1	ALUMINUM	AIRFOIL DOUBLE DEFLECTION	L	YES	SCREW	BAKED ENAMEL, ALUMINUM

NOTE: 1. BORDER/MOUNTING FRAME: ALUMINUM CURVED FOR SURFACE MOUNT TO SUIT APPLICATION.

### TANK SCHEDULE

TAC					RECOVERY	RECOVERY DIMENSIONS TO		FRONT TAPPINGS	MAX. WORKING	E	NOTES		
IAG	SERVICE	SERVICE TYPE ORIENTATION L/Usgal LPH/GPH mm #-mm		# - mm	kPa / psi	kW	VOLTS	PHASE	NOTES				
T-DHW	FEED LAB DOMESTIC HOT WATER	ELECTRIC	VERTICAL, CEILING MOUNTED	72 / 19	42 / 11	OL: 600mm DIA: 450mm	2 - 20 IN, 20 OUT	TOP: T & P MID: NONE BOTTOM: DRAIN	1035 / 150	2.5	120	1	1, 2, 3
NOTE: 1. TAPPING				TIONAL TAPPINGS	AS REQUIRED FC	OR SENSORS AN	ID SAFETY VALVE	ES.					

PWGSC - B1 - 1000X707

2. RECOVERY AT 50°C [90°F] TEMPERATURE RISE.

3. REFER TO SPECIFICATIONS.

HEATING	HEATING UNIT SCHEDULE										
TAG	BUILDING	TYPE		AIR	AIR FLOW			ELECT DATA			
				1/5	/ 01	111	kW VOLTS PHASE				
EHC-100	FEED LAB	ELEC HEATING COIL	250x250	155	/	330	4.5	208	3	1	
EHC-103	ACOUSTICS LAB	ELEC HEATING COIL	250x250	155	/	330	4.5	208	3	1	
EBB-103	ACOUSTICS LAB	ELEC BASEBOARD	-	-	/	-	1.5	120	1	-	
EBB-104	ACOUSTICS LAB	ELEC BASEBOARD	-	-	/	-	0.5	120	1	-	
EBB-105	ACOUSTICS LAB	ELEC BASEBOARD	-	-	/	-	0.5	120	1	-	

NOTE: 1. COMPLETE WITH AIR PROVING SWITCH, SCR CONTROL, ROOM THERMOSTAT

![](_page_30_Figure_19.jpeg)

4 T-DHW SCHEMATIC 

![](_page_30_Figure_21.jpeg)

![](_page_30_Figure_22.jpeg)

![](_page_30_Figure_23.jpeg)

		<b>GENERAL ABBREVIATIONS:</b>										
С	DOMESTIC COL	D WATER	HRV	HEAT RECOVERY VENTILATOR								
Н	DOMESTIC HOT	T WATER	O/A	OUTDOOR AIR								
E/A	EXHAUST AIR		SR	SUPPLY REGISTER								
EBE	ELECTRIC BASI	EBOARD	EF	EXHAUST FAN								
EHC	; ELECTRIC HEA	TING COIL	VTR	VENT TO ROOF								

MECHANICAL DRAWING LIST

SCALE

AS NOTED

DRAWING NAME

ACOUSTIC LAB AND FEED LAB MECHANICAL AND

PLUMBING PLANS

DRAWING NO.

M1.01

![](_page_30_Figure_25.jpeg)

DRAWING LEGEND

ELECT DATA

208

VOLTS PHASE

MOTOR

HP 

330 W

DOWNSPOUT. REFER TO

ARCHITECTURAL AND CIVIL DRAWINGS.

(1)

2—

3-

330 W 208

NOTES

![](_page_30_Figure_26.jpeg)

JOB NO /NAME	1-17-274 - F	ISHER	IES AN	D OCF	ANS		
SUSTEM       :         SYSTEM       :         TYPE       :         LOCATION       :         MOUNTING       :         NO. CIRCUITS       :         BUS SIZE       :         SYM. FAULT RATING       :	A 120/208V CDP EXTERIOR SURFACE 42 600A 22k	IGHER		DUUL			
DESCRIPTION	BRK	POLE	ССТ	ССТ	POLE	BRK	DESCRIPTION
TENT STRUCTURE	200	3	01	02	3	200	MODULAR LAB
			03	04			
			05	06			
ACOUSTICS LAB	100	3	07	08	1	15	100W BASEBOARD
			09	10	1	15	RECEPTACLE
			11	12			
			13	14			
			15	16			
			17	18			
			19	20			
			21	22			
			23	24			
			25	26			
			27	28			
			29	30			
			31	32			
			33	34			
			35	36			
			37	38			
			39	40			
			41	42			

PA	NEL	BO	AR	DS		IEL	DULE
JOB NO./NAME : PANEL : SYSTEM : TYPE : LOCATION : MOUNTING : NO. CIRCUITS : BUS SIZE : SYM. FAULT RATING :	1-17-274/ C 120/208V LOAD CE ACOUST RECESSI 42 200A 22k	FISHERII NTER CS LAB ED	es and	OCEA	NS - AC	OUSTI	CS LAB
DESCRIPTION	BR	K POLE	ССТ	ССТ	POLE	BRK	DESCRIPTION
LIGHTS	15	1	01	02	1	15	EMERGENCY LIGHTING
LIGHTS	15	1	03	04	1	20	RECEPTACLE
RECEPTACLE	15	1	05	06	1	15	RECEPTACLE
RECEPTACLE	15	1	07	08	1	15	RECEPTACLE
SMOKE DETECTORS	15	1	09	10	1	15	RECEPTACLE
HRV-103	15	2	11	12	3	15	EHC-103 4.5kW
			13	14	ĺ		
SPARE	15	1	15	16			
SPARE	15	1	17	18	1	15	EBB-103
SPARE	15	1	19	20	1	15	FUTURE FAN
			21	22			
			23	24			
			25	26			
			27	28			
			29	30			

PANELBOARD SCHEDULE												
JOB NO./NAME1-1PANELBSYSTEM12TYPELOCLOCATIONMCMOUNTINGSLNO. CIRCUITS60BUS SIZE22SYM. FAULT RATING22	17-274 - 1 0/208V AD CEN DULAR IRFACE 5A k	TISHER TER LAB	IES AN	D OCE	ANS - N	10DUL/	AR LAB					
DESCRIPTION	BRK	POLE	ССТ	ССТ	POLE	BRK	DESCRIPTION					
MIXER 1	15	3	01 03 05	02 04 06	3	15	MIXER 2					
MIXER	15	2	07 09	08 10	2	30	CENTERFUGE					
VACUUM PACKER FREEZE DRYER	15 15	1 2	11 13 15	12 14 16	3	15	NUTRIENT MIXER					
DRYER EMERGENCY LIGHT/EXIT LIGHT	15 15 15	1 1 1	17 19 21	18 20 22	3	15	PELLET WHEEL					
LIGHT	15	1	23	24	1	20	GFI 15/20 RECEPTACLE					
SMOKE DETECTOR	15	1	25	26	1	20	GFI 15/20 RECEPTACLE					
EHC-100	20	3	27	28	1	20	15/20 RECEPTACLE					
			29 31	30 32	2	-	E-100/CU 100					
TDHW	30	1	33	34	2	15	HRV-100					
REEL RECEPTACLE	15	1	35	36	1							
PIPE TRACING	15	1	37	38	1	20	FREEZER					
SPARE	15	1	39	40	1	15	SPARE					
SPARE	15	1	41	42	1	15	SPARE					
SPARE	15	1	43	44								
			45	46								
			47	48								
			49	50								
			51	52								
			53	54								
			55	56								
			57	58								
			59	60								
<ul><li>GFCI Breaker</li><li>Lock On</li></ul>						PAN	IEL C/W 200A - 3P MAIN BREAKER					

![](_page_31_Figure_3.jpeg)

![](_page_31_Figure_4.jpeg)

![](_page_31_Figure_5.jpeg)

- 2. RAIN, SLEET, AND SNOW RESISTANT
- 3. GASKETED DOOR
- 4. 19mm FIRE RATED G.I.S. PLYWOOD ON BACK WALL FOR MOUNTING PANEL 'A' 5. 100W BASEBOARD HEATER COMPLETE WITH THERMOSTAT
- 6.  $\gamma_8$ " THICK ALUMINUM CONSTRUCTION
- 7. POWDER COAT TO SAR COLOUR APPROVAL

3 > PANEL 'A' KIOSK E1.0 NOT TO SCALE

		Ν	1EC	HAI	NIC	AL EC	JU	IP	ME	NT	SC	HE	DUL	E	- DF	=0	WE	EST		AN	LA	BS									
	DESCRIPTION			LOAD			ш	ι			S	STARTER			DISC.		CONTROL				SUPPLY PANEL				WIRE & CONDUIT						
Ó#		EQUIPMENT		1	1	VOLTS	ASI	Ľ	Ļ	ECT	7 1	CT 1			SUPPLY MOUNT CONNECT	ECT	5 >	F	ECT	ш		#			BR	EAKER	ize		UIT mu)	s L	Тиот
		LOCATION	MCA	кw	HP		표	SUPPI	MOUN	CONNE	NUON	CONNE	CONNE	SUPPI		CONNE	SUPP	MOUN	CONNE	ΤΥΡΕ	FIRE	PANEL	LOCATION	AMPS	Р	CCT NO'S	WIRE S	Ň	CONDI SIZE (n	TOT/ AMP	
	FEED LAB				1										1																
EHC-100	ELECTRIC HEAT COIL	CEILING	-	4.5	-	208	3	М	М	E		-	-	E	E	E	М	М	М	-	-	В	FEED LAB	20	3	-	12	4	-	-	-
E-100	COOLER EVAPORATION	IN COOLER	-	-	-	208	1	М	М	E		-	-	E	E	E	М	М	М	-	-	В	FEED LAB	20	2	-	12	3	-	-	1
CU-100	COOLER CONDENSER	EXTERIOR	-	-	-	208	1	М	М	E		-	-	E	E	E	М	М	М	-	-	В	FEED LAB	20	2	-	12	3	-	-	1
HRV-100	HEAT RECOVERY VENTILATOR	CEILING	-	0.3	-	208	1	М	М	E		-	-	E	E	E	М	М	М	-	-	В	FEED LAB	15	2	-	12	3	-	-	-
TDHW	DOMESTIC HOT WATER TANK	-	-	2.5	-	-	1	М	М	E		-	-	E	E	E	М	М	М	-	-	В	FEED LAB	30	1	-	10	2	-	-	-
-	HEAT TRACE	-	-	-	-	120	1	М	М	E		-	-	-	-	-	-	-	-	-	-	В	FEED LAB	15	1	-	12	2	-	-	2
	ACOUSTICS LAB																														
EHC-103	ELECTRIC HEAT COIL	CEILING	-	4.5	-	208	3	М	М	Е		-	-	E	E	E	М	М	М	-	-	С	ACOUSTICS LAB	20	3	-	12	4	-	-	-
EBB-103	ELECTRIC BASEBOARD	ENTRANCE	-	1.5	-	-	1	М	М	E		-	-	E	E	E	М	М	М	-	-	С	ACOUSTICS LAB	15	1	-	12	2	-	-	-
-	FUTURE EXHAUST FAN	SERVER ROOM	-	-	FHP	-	1	М	М	E	MN	1   E	-	E	E	E	М	М	М	-	-	С	ACOUSTICS LAB	15	1	-	12	2	-	-	3
HRV-103	HEAT RECOVERY VENILATION	CEILING	-	0.3	-	208	1	М	М	Е		-	-	E	E	E	М	М	М	-	-	С	ACOUSTICS LAB	15	2	-	12	3	-	-	-
LEGEND       NOTES         M = DENOTES BY MECHANICAL CONTRACTOR       1. COOLER EVAPORATION AND CONDENSER INTERCONNECTED TO ONE POWER         E = DENOTES BY ELECTRICAL CONTRACTOR       1. COOLER EVAPORATION AND CONDENSER INTERCONNECTED TO ONE POWER         T = THERMOSTAT       SOURCE.         HOA = MAGNETIC STARTER WITH HAND-OFF-AUTO SELECTOR       2. COORDINATE PIPE HEAT TRACE WITH MECHANICAL. PROVIDE LOCK ON         MAG = MAGNETIC STARTER WITH AUX STATUS CONTACTS       BREAKER.         MAN = MANUAL STARTER       3. PROVIDE POWER FOR FUTURE EXHAUST FAN.         DDC = CONTROLLED BY DDC SYSTEM       POWER FOR FUTURE EXHAUST FAN.																															

<b>.</b>	DESCRIPTION		LECT	RICA	L	CIRCUIT						
₩# L			V PH kW hp		hp	NUMBER	DREAKER	WIRE SIZE	RECEPTACLES			
1 N	MIXER 1	208V	3	-	-	B1,3,5	15A-3P	-	-	30A DISCONNECT + CONNECTION		
2 N	MIXER 2	208V	3	-	-	B2,4,6	15A-3P	-	-	30A DISCONNECT + CONNECTION		
3 N	MIXER	208V	1	-	-	B7,9	15A-2P	-	RECEPTACLE	-		
4 V	VACUUM PACKER	120V	1	-	-	B11	15A-1P	-	RECEPTACLE	-		
5 C	CENTRIFUGE	208V	1	-	-	B8,10	30A-2P	-	TWIST LOCK	-		
6 N	NUTRIENT MIXER	208V	3	-	-	B12,14,16	15A-3P	-	TWIST LOCK	-		
7 F	FREEZE DRYER	208V	1	-	-	B13,15	15A-2P	-	RECEPTACLE	-		
8 D	DRYER	120V	1	-	-	B17	15A-1P	-	RECEPTACLE			
9 P	PELLET WHEEL	208V	3	-	-	B18,20,22	15A-3P	-	RECEPTACLE	-		

![](_page_31_Figure_15.jpeg)

# COMMUNICATION AND SMOKE DETECTOR SCHEMATIC

A. PROVIDE A 24 PORT RACK MOUNTED COPPER PATCH PANEL AND INSTALL IN EXISTING RACK. TERMINATE CAT 6 CABLES. (DATA) PROVIDE PATCH CORDS B. EXISTING BIX BLOCK (VOICE)PUNCH DOWN CAT 6 CABLES.

E. PROVIDE WIDE 'J' HOOKS, ATTACHED TO STRUCTURAL CEILING WHERE THERE IS NO CABLE TRAY.

G. PROVIDE WALL MOUNTING RACK COMPLETE WITH 2x16 PORT COPPER DATA

CABLES TO DDC PANEL IN BASE BUILDING COMMUNICATIONS ROOM.

L. PROVIDE CAT6 CABLE TO EACH OUTLET INSTALL IN CONDUIT (VOICE)

— BUS BARS

— 200A BREAKER

![](_page_31_Figure_27.jpeg)

 $\mathcal{T}$  EXISTING DISTRIBUTION DETAIL 

- TO TENT


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G

ELECTRICAL SYMBOL LEGEND					
	ABBREVIATIONS				
WP	WEATHER PROOF				
GFI	GROUND FAULT				
	LIGHTING				
	SURFACE MOUNTED LED LUMINAIRE				
	UNDER COUNTER LED LUMINAIRE				
••	SUSPENDED LED LUMINAIRE				
Q	WALL MOUNTED DOWN LIGHT				
	EMERGENCY POWERED RUNNING MAN WITH 2 LED LAMPS				
•	EMERGENCY BATTERY C/W 2x6W LED HEADS				
\$	VACANCY SWITCH				
$\Phi$	MOTION SENSOR, CEILING MOUNTED				
D	DIMMER SWITCH				
	POWER				
Φ	SPECIAL AMPERAGE AND VOLTAGE RECEPTACLE				
Ф	15A DUPLEX RECEPTACLE				
Ф	15/20A RECEPTACLE				
фwр	WEATHERPROOF RECEPTACLE				
ф gғi	GFI RECEPTACLE				
<b>⊕</b>	QUAD 15/20A RECEPTACLE				
$\bigcirc$	DIRECT CONNECTION				
<b>\$</b>	MECHANICAL MOTOR CONNECTION				
Ľ	DISCONNECT SWITCH				
ാ	REEL RECEPTACLE				
<u></u>	POWER POLE - 3M CORD				
	COMMUNICATIONS				
▼	2 CAT6 DATA OUTLETS RJ45				
$\nabla$	1 CAT6 VOICE OUTLET RJ11				
	FIRE ALARM				
	120V/12V COMBINATION SMOKE/CARBON MONOXIDE DETECTOR				

![](_page_31_Figure_31.jpeg)

NOTES:

1. BEFORE ANY EXCAVATION CONTRACTOR TO LOCATE 12.5 kV SERVICE.

cond desię work	litions on site and report any dia gner and/or engineer prior to pr	scre oce	pancies to eding with							
DC	NOT SCALE DRAV	VIN	IGS							
All d are t Repr docu the v	All drawings, specifications and related documents are the copyright property of AES Engineering Ltd. Reproduction of any of the aforementioned documents in whole or in part is not permitted without the written permission of AES Engineering Ltd.									
	PROJECT NORTH									
PR	RODUCTION DRAWINGS BY:									
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	VANCOUVER	:   <b>VI</b>	CTORIA							
1	ISSUED FOR 100% REVIEW		11/30/2017							
REV	DESCRIPTION		DATE							
PRO										
S/	AR Vancouver L	ab	oratory							
DU	unungs									
416) Wes	0 Marine Dr st Vancouver, British Columbi	а								
DRA	WING TITLE:									
SI	TE PLAN, LEGE	EN	D,							
A	ND SCHEDULES	S								
DAT	E:	11/30	)/2017							
SCA DRA	LE:	AS N TS/D	IOTED P/JK							
CHE JOB	CHECKED BY:CTJOB NUMBER:1-17-274									
DRA	WING NUMBER:									
	<b>Г</b> / (	٦								
		J								

Contractor must check and verify all dimensions and

![](_page_32_Figure_0.jpeg)

![](_page_32_Figure_6.jpeg)

11/30/2017
AS NOTED
TS/DP/JK
СТ
1-17-274

E2.0

![](_page_33_Figure_0.jpeg)