CORRECTIONAL SERVICE CANADA, WILLIAM HEAD INSTITUTION,

MAINTENANCE BUILDING (BUILDING 107)

6000 WILLIAM HEAD ROAD, METCHOSIN, B.C.

DRAWING LIST :

ARCHITECTURAL

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A502	BUILDING SECTIONS	05/02/2018
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A612	SECTIONS - ELEVATOR AND STAIR A	05/02/2018
A613	SECTIONS - ELEVATOR AND STAIR A	05/02/2018
A614	PARTIAL PLANS & SECTIONS - STAIR B	05/02/2018
A615	PARTIAL PLANS & SECTIONS - STAIR C	05/02/2018
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A803	MILLWORK DETAILS	05/02/2018
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E502	ELECTRICAL, LAN AND MECH. ROOMS ENLARGED PLANS AND ELEVATIONS	05/02/2018
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E508	BUILDING PARTIAL PLAN LAYOUTS AND DETAILS	05/02/2018

PRIME CONSULTANT

Architectural
DGBK ARCHITECTS

CONSULTANTS

Civil
Wedler Engineering

Structural
CWMM Consulting Engineering Ltd.

Mechanical
JM Bean & Co. LTD

Electrical
Stantec

Geotechnical
Golder Associates Ltd.

Quantity Surveyor
Hanscomb Ltd.

Project Manager
PWGSC
Public Works and Government Services Canada

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

DGBK

REGISTERED ARCHITECT
PROVINCE OF BRITISH COLUMBIA

Revision/ Revision	Description/Description	Date/Date
0	ISSUE FOR TENDER	2018-05-02

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
ROGER GREEN

Drawn by/Dessine par
RG/VR/KL

PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régional, Services d'architectural et de génie, TPSGC
PREETIPAUL PAUL

Drawing title/Titre du dessin

COVER SHEET & DRAWING LIST

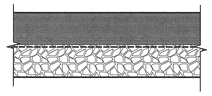
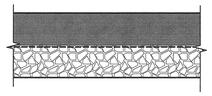
Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	A000	0

PWGSC – AO – 1189X841

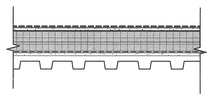
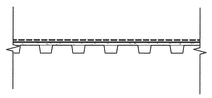
0 10 20 30 40 50 60 70 80 90 100mm

5/2/2018 5:14:09 PM

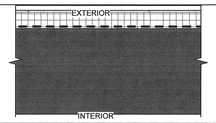
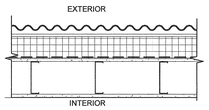
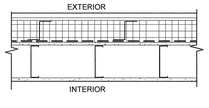
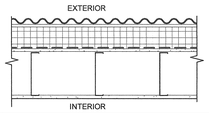
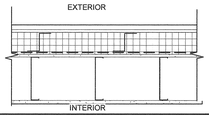
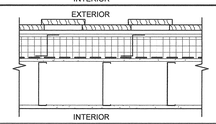
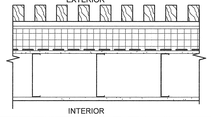
FLOOR ASSEMBLIES

FLOOR TYPES:			REMARKS
F1		FLOOR FINISH (SEE FLOOR FINISHES SCHEDULE) 150mm CONCRETE SLAB AS PER STRUCTURAL ON 15 mil. POLY MOISTURE BARRIER SEALED ON EDGES AND PENETRATIONS ON 150mm CRUSHED STONE AS PER GEOTECH REPORT ON FILTER CLOTH ON STRUCTURAL FILL AS PER GEOTECH REPORT	
F1a		FLOOR FINISH (SEE FLOOR FINISHES SCHEDULE) 200mm CONCRETE SLAB AS PER STRUCTURAL ON 15 mil. POLY MOISTURE BARRIER SEALED ON EDGES AND PENETRATIONS ON 150mm CRUSHED STONE AS PER GEOTECH REPORT ON FILTER CLOTH ON STRUCTURAL FILL AS PER GEOTECH REPORT	
F2		FLOOR FINISH (SEE FLOOR FINISHES SCHEDULE) 64mm CONCRETE TOPPING ON 38mm METAL DECKING FRAMING AS PER STRUCTURAL DWGS	MINIMUM 45 MIN. FRR ULC F906

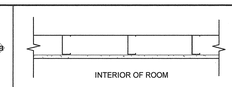
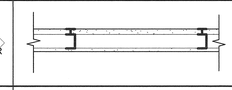
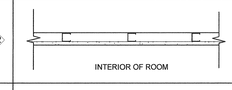
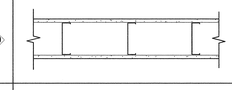
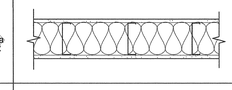
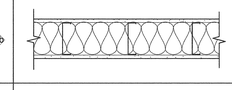
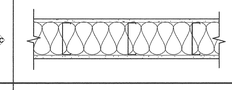
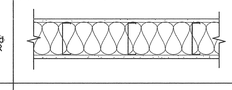
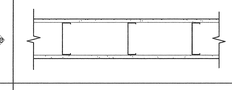
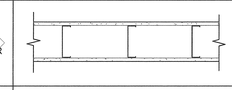
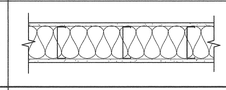
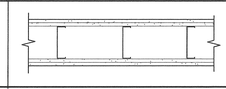
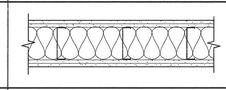
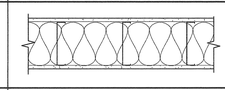
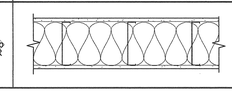
ROOF ASSEMBLIES

ROOF TYPES:			REMARKS
R1		2 LAYERS SBS ROOF MEMBRANE 13mm INSULATION OVERLAY BOARD 2 LAYERS 51mm STAGGERED POLYISO. RIGID INSULATION SELF-ADHESIVE VAPOUR BARRIER ON 16mm EXTERIOR SHEATHING ON 38mm METAL DECKING SLOPED STRUCT. ROOF FRAMING AS PER STRUCTURAL DWGs	LOWER & UPPER ROOF
R2		2 LAYERS SBS ROOF MEMBRANE ON 16mm EXTERIOR SHEATHING ON 38mm METAL DECKING ROOF FRAMING AS PER STRUCTURAL DWGS (SLOPE TO DRAIN)	CANOPY

WALL TYPES

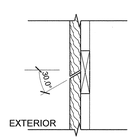
EXTERIOR WALL TYPES:			REMARKS
W1		76mm CONCRETE FACED RIGID INSULATION DAMP-PROOFING MEMBRANE CONCRETE FOUNDATION WALL (SEE STRUCTURAL FOR DIMENSIONS)	
W2		22mm VERTICAL CORRUGATED METAL 114mm HORIZONTAL Z CHANNEL @ 300mm O.C. 102mm RIGID INSULATION SELF ADHERED (AIR/VAPOUR) MEMBRANE 13mm EXTERIOR SHEATHING 152mm STEEL STUDS @ 300mm O.C. W/ 16mm GYPSUM WALLBOARD	
W2a		22mm HORIZONTAL CORRUGATED METAL 114mm VERTICAL Z CHANNEL @ 300mm O.C. 102mm RIGID INSULATION SELF ADHERED (AIR/VAPOUR) MEMBRANE 13mm EXTERIOR SHEATHING 152mm STEEL STUDS @ 300mm O.C. W/ 16mm GYPSUM WALLBOARD	
W3		22mm VERTICAL CORRUGATED METAL 114mm HORIZONTAL Z BAR @ 300mm O.C. 102mm RIGID INSULATION SELF ADHERED (AIR/VAPOUR) MEMBRANE 13mm EXTERIOR SHEATHING 203mm STEEL STUDS @ 300mm O.C. W/ 16mm GYPSUM WALLBOARD	
W4	NOT USED	NOT USED	
W5		22mm HORIZONTAL CORRUGATED METAL 114mm VERTICAL Z BAR @ 300mm O.C. 102mm RIGID INSULATION SELF ADHERED (AIR/VAPOUR) MEMBRANE 13mm EXTERIOR SHEATHING 203mm STEEL STUDS @ 300mm O.C. W/ 16mm GYPSUM WALLBOARD	
W6		25mm CEDAR ROUGH SAWN BOARD AND BATTEN (8" PATTERN) 1x4 BORATE TREATED HORIZONTAL STRAPPING @ 600mm O.C. 114mm VERTICAL Z BAR @ 300mm O.C. 102mm RIGID INSULATION SELF ADHERED (AIR/VAPOUR) MEMBRANE 13mm EXTERIOR SHEATHING 203mm STEEL STUDS @ 300mm O.C. W/ 16mm GYPSUM WALLBOARD	TYPE A
W7		51mm (2") X 76mm (3") CEDAR ROUGH SAWN SLATS 8mm HARDIE PANEL (PAINTED BLACK) 114mm HORIZONTAL Z BAR @ 300mm O.C. w WEEP HOLES 102mm RIGID INSULATION SELF ADHERED (AIR/VAPOUR) MEMBRANE 13mm EXTERIOR SHEATHING 203mm STEEL STUDS @ 300mm O.C. W/ 16mm GYPSUM WALLBOARD (NOTE: WOOD SLAT TO BE ATTACHED FROM REAR FACE - NO VISIBLE CONNECTORS)	TYPE B

WALL TYPES

INTERIOR WALL TYPES:			FRR & ULC DESIGN NO.	REMARKS
W10a		92mm STEEL STUD AT 300mm O.C.. 16mm MOISTURE RESISTANT GWB		PLUMBING FURRING WALL
W11 1 HR		25.4mm GYPSUM SHAFTLINER PANEL 64mm METAL "C-H" SHAPED STEEL STUD AT 610mm O.C. IN "U" SHAPE RUNNERS 16mm TYPE 'X' GYPSUM WALLBOARD	1 HOUR FRR ULC W452 SYSTEM EA	MECHANICAL SHAFT WALL
W12		92mm STEEL STUD AT 300mm O.C.. 16mm GYPSUM WALLBOARD		BEAM BULKHEAD
W20		16mm GYPSUM WALLBOARD 152mm STEEL STUD AT 300mm O.C. 16mm GYPSUM WALLBOARD OR 16mm MOISTURE RESISTANT TYPE 'X' GWB (WASHROOM SIDE)		
W20a 0HR		16mm TYPE 'X' GYPSUM WALLBOARD 152mm STEEL STUD AT 300mm O.C. FILL CAVITY WITH SOUND ATTENUATION BATTS 16mm TYPE 'X' GYPSUM WALLBOARD OR 16mm MOISTURE RESISTANT TYPE 'X' GWB (WASHROOM SIDE)	0 HOUR FRR ULC W480	
W20b		16mm GYPSUM WALLBOARD 152mm STEEL STUD AT 300mm O.C. FILL CAVITY WITH SOUND ATTENUATION BATTS 16mm GYPSUM WALLBOARD OR 16mm MOISTURE RESISTANT TYPE 'X' GWB (WASHROOM OR SHOWER SIDE)		
W20c		16mm GYPSUM WALLBOARD 152mm STEEL STUD AT 300mm O.C. FILL CAVITY WITH SOUND ATTENUATION BATTS 16mm MOISTURE RESISTANT GWB (SHOWER SIDE)		
W20d 1 HR		16mm TYPE 'X' GYPSUM WALLBOARD 152mm STEEL STUD AT 300mm O.C. FILL CAVITY WITH SOUND ATTENUATION BATTS 16mm MOISTURE RESISTANT TYPE 'X' GWB (SHOWER SIDE)	1 HOUR FRR ULC W407	
W20e		16mm GYPSUM WALLBOARD 152mm STEEL STUD AT 300mm O.C. 16mm MOISTURE RESISTANT GWB (SHOWER SIDE)		
W21 1 HR		16mm TYPE 'X' GYPSUM WALLBOARD 152mm STEEL STUD AT 300mm O.C. 16mm TYPE 'X' GYPSUM WALLBOARD OR 16mm MOISTURE RESISTANT TYPE 'X' GWB (WASHROOM OR SHOWER SIDE)	1 HOUR FRR ULC W407	
W21b 1 HR		16mm TYPE 'X' GYPSUM WALLBOARD 152mm STEEL STUD AT 300mm O.C. FILL CAVITY WITH ULC APPROVED FIRE RESISTANT GLASS FIBRE BATTS 16mm TYPE 'X' GYPSUM WALLBOARD	1 HOUR FRR ULC W407	
W22 2 HR		16mm TYPE 'X' GYPSUM WALLBOARD 16mm TYPE 'X' GYPSUM WALLBOARD 152mm STEEL STUD AT 300mm O.C. 16mm TYPE 'X' GYPSUM WALLBOARD 16mm TYPE 'X' GYPSUM WALLBOARD	2 HOUR FRR ULC W404	
W22b 2 HR		16mm TYPE 'X' GYPSUM WALLBOARD 16mm TYPE 'X' GYPSUM WALLBOARD 152mm STEEL STUD AT 300mm O.C. FILL CAVITY WITH ULC APPROVED FIRE RESISTANT GLASS FIBRE BATTS 16mm TYPE 'X' GYPSUM WALLBOARD 16mm TYPE 'X' GYPSUM WALLBOARD	2 HOUR FRR ULC W404	
W23		16mm GYPSUM WALLBOARD 2.8mm EXPANDED STEEL MESH (50 MAX OPENING) SECURE WITH NON-REMOVABLE SCREWS 152mm STEEL STUD AT 300mm O.C. 16mm GYPSUM WALLBOARD		HARDENED WALL
W31a		16mm MOISTURE RESISTANT TYPE 'X' GWB 203mm STEEL STUD AT 300mm O.C. FILL CAVITY WITH ULC APPROVED FIRE RESISTANT GLASS FIBRE BATTS 16mm MOISTURE RESISTANT TYPE 'X' GWB		
W31b 1 HR		16mm TYPE 'X' GYPSUM WALLBOARD 203mm STEEL STUD AT 300mm O.C. FILL CAVITY WITH ULC APPROVED FIRE RESISTANT GLASS FIBRE BATTS 16mm TYPE 'X' GYPSUM WALLBOARD	1 HOUR FRR ULC W407	

ABBREVIATIONS

REF	FRIDGE
WH	FROST FREE WALL HYDRANT



TYPICAL SECTION DETAIL FOR CONNECTION OF CEDAR SIDING BOARDS

CUT BOARD END AT A 30° FOR TRANSITION BETWEEN BOARDS. ALL EDGES TO BE PRIMED WITH BASE COAT OF STAIN PRIOR TO INSTALLATION

INTERIOR WALL TYPES KEY:

ALL TYPE DESIGNATION:
W: SERIES 10: 92mm STEEL STUD
SERIES 20: 152mm STEEL STUD
SERIES 30: 203mm STEEL STUD

FOR FRR WALL: FILL CAVITY WITH ULC APPROVED FIRE RESISTANT GLASS FIBRE, USE ULC APPROVED FIRE CAULKINGS TO SEAL ALL JOINTS

GENERAL NOTES:

1. REFER TO SHEET A-704 FOR TOP OF INTERIOR WALL DETAILS @ ROOF JOISTS AND BEAMS.
2. REFER TO SHEET A-902 FOR PLYWOOD FINISH TO LEVEL 1 WORKSHOP AREAS.

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0	ISSUE FOR TENDER	2018-05-02

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CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
ROGER GREEN

Drawn by/Dessine par
VR/KL

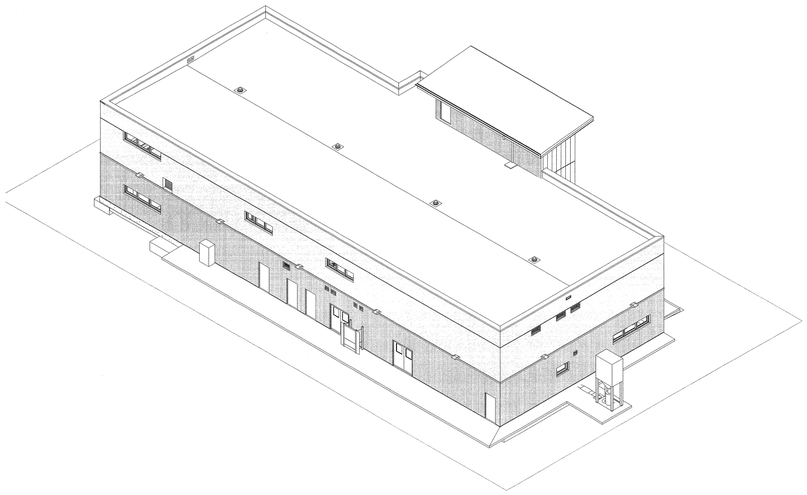
PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAR

PWGSC Regional Manager, Architectural and Engineering Services/ Gestionnaire régional, Services d'architectural et de génie, TPSGC
PREETIPAUL PAUL

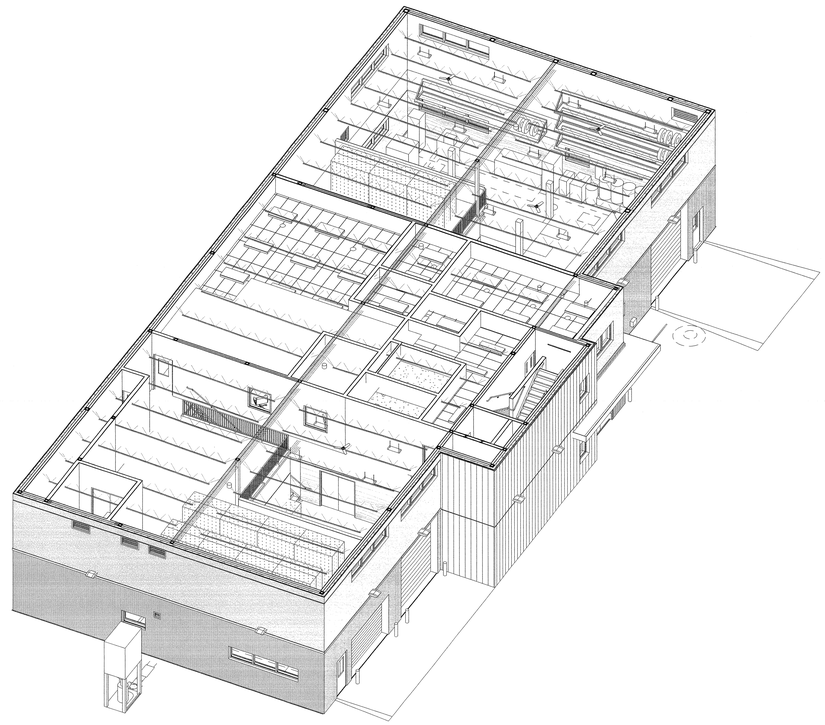
Drawing title/Titre du dessin

GENERAL NOTES + ASSEMBLIES

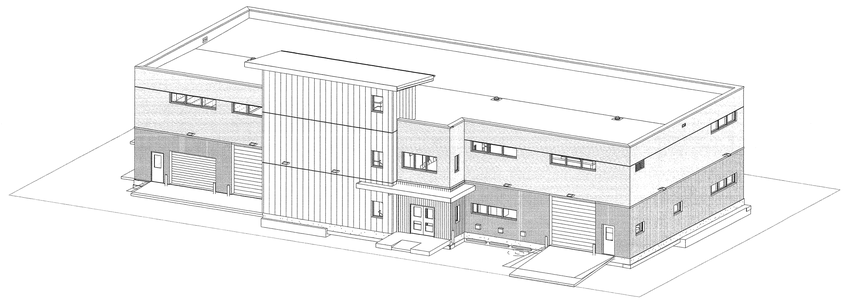
Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	A001	0



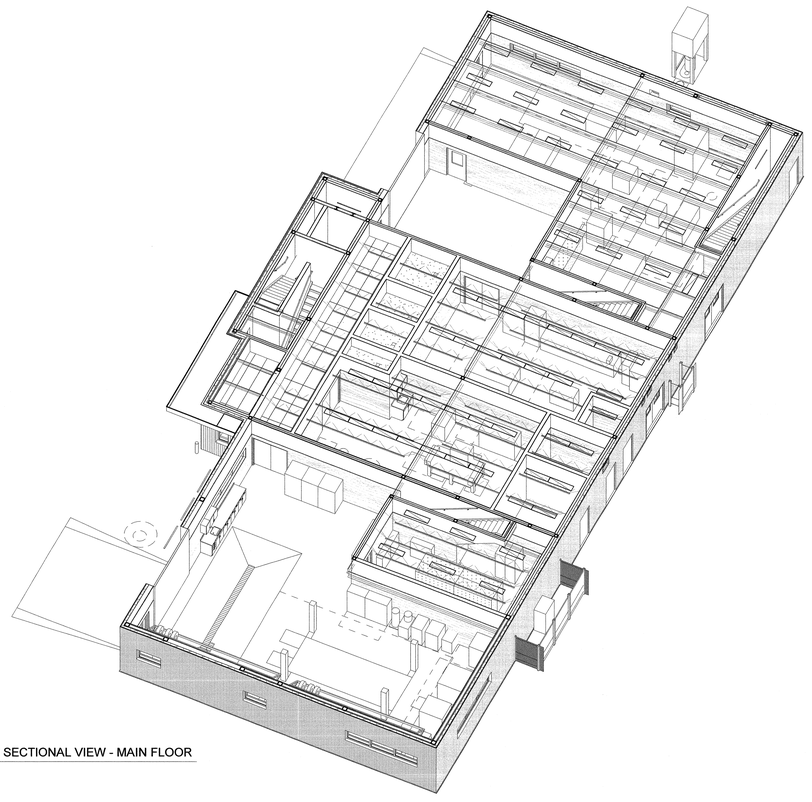
2 A002 3D VIEW - BACK



4 A002 3D SECTIONAL VIEW - UPPER FLOOR



1 A002 3D VIEW - FRONT



3 A002 3D SECTIONAL VIEW - MAIN FLOOR

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PREETIPAUL PAUL

Drawing title/Titre du dessin

3D VIEWS

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	A002	0

PWGSC – A0 – 1189X841

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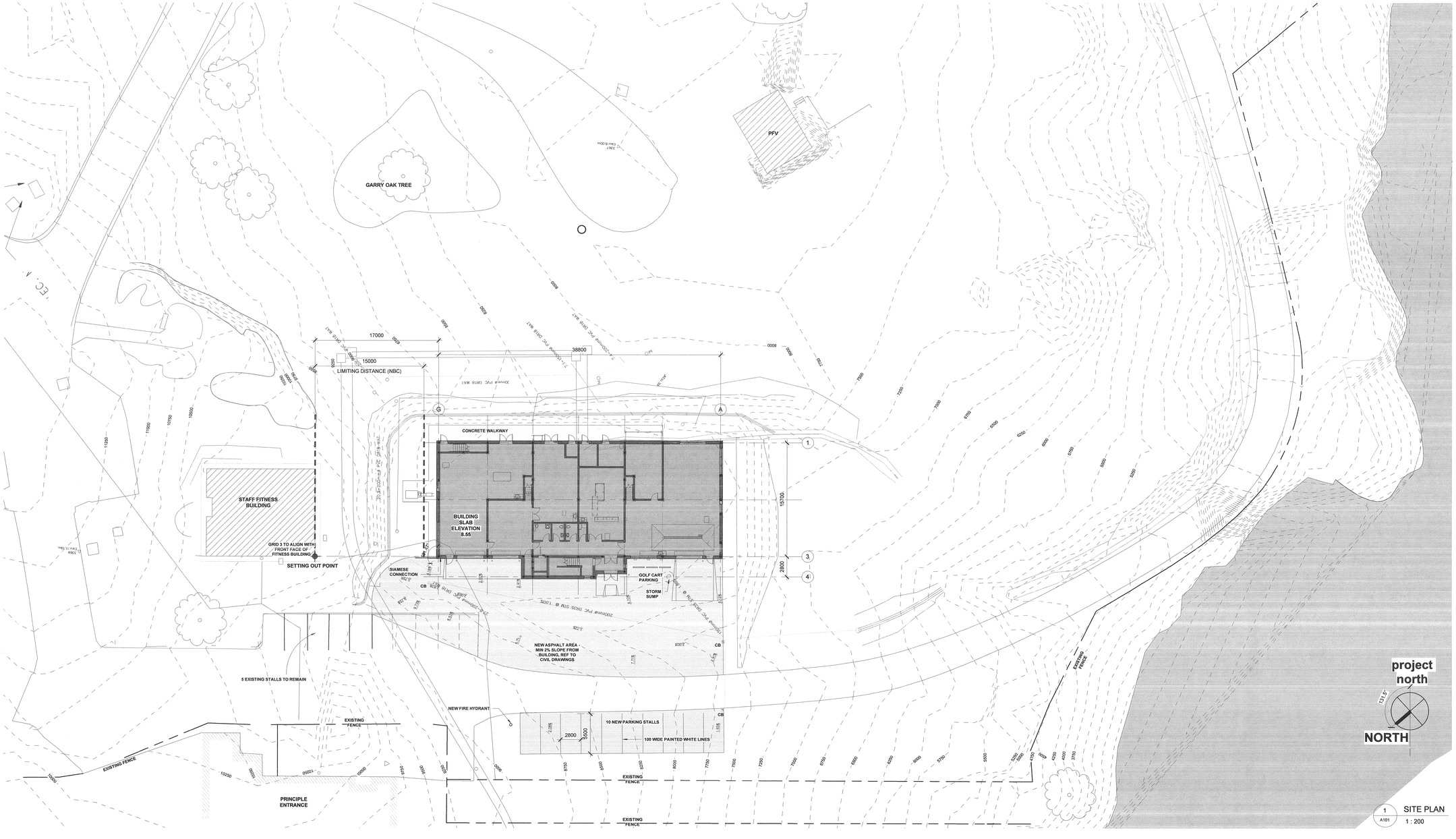
4/30/2018 9:29:32 AM

2 A200 PROJECT LOCATION PLAN
1 : 5000



1 A101 SITE PLAN
1 : 200

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PREETIPAUL PAUL

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LOCATION PLAN & OVERALL SITE PLAN

Project No./No. du projet	Sheet/ Feuille	Revision no./ Révision no.
R.069377.001	A101	0

PWGSC – A0 – 1189X841

4/30/2018 9:30:51 AM

BUILDING CODE SYNOPSIS (SEE CODE ANALYSIS REPORT)

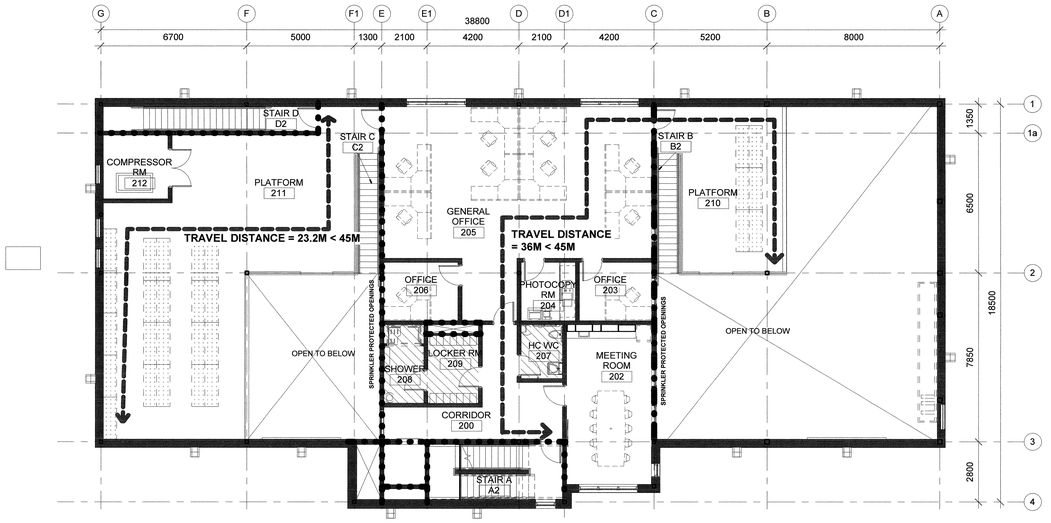
APPLICABLE BUILDING CODE:	NATIONAL BUILDING CODE OF CANADA 2015 (NBCC)
OCCUPANCY CLASSIFICATION:	GROUP F-2 (MEDIUM-HAZARD INDUSTRIAL)
BUILDING AREA:	650 SM
TOTAL AREA:	MAIN LEVEL = 650 SM + UPPER LEVEL = 452 SM TOTAL = 1,102 SM
OCCUPANT LOAD FOR EXPECTED OPERATIONS:	MAIN LEVEL = 21 + UPPER LEVEL = 13 TOTAL = 34
MAX. TOTAL OCCUPANCY:	79 (REFER TO TABLE 9.3.7 IN CODE ANALYSIS REPORT)
BUILDING SIZE + CONSTRUCTION RELATIVE TO OCCUPANCY:	NBCC 2015 Article 3.2.2.79. GROUP F-2, UP TO 2 STOREYS, SPRINKLERED, BUILDING AREA NOT MORE THAN 1,800 SM
FIRE SEPARATIONS:	- 45 MIN FRR SEPARATION REQ'D FOR FLOOR ASSEMBLIES & LOADBEARING WALLS, COLUMNS - 1 HR FRR SEPARATION REQ'D AROUND MECHANICAL ROOM (WITH FUEL-FIRED APPLIANCE) - 2 HRS FRR FOR REPAIR GARAGE SEPARATION - 45 MIN FRR SEPARATION REQ'D FOR VERTICAL SERVICE SPACES - 45 MIN FRR SEPARATIONS FOR ELEVATOR HOISTWAY - 45 MIN FRR SEPARATIONS FOR ELEVATOR MACHINES ROOM - 0 MIN FRR SEPARATION FOR JANITOR ROOM - 45 MIN. RATED CLOSURES PERMITTED IN 45 MIN OR 1 HR FRR WALLS - 1.5 HR RATED CLOSURES PERMITTED IN 2 HR FRR WALLS - ROOF REQUIRES NO RATING

NOTE:

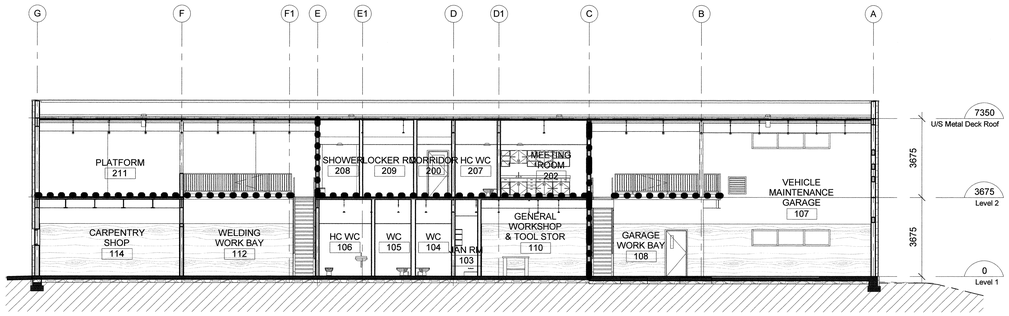
1) ELEVATOR IS LIMITED USE, LIMITED APPLICATION FOR ACCESSIBILITY PURPOSE ONLY, NOT FOR FIRE FIGHTING.
2) EXEMPTION FROM PATIENT STRETCHER REQUIREMENT FOR NBCC ARTICLE 3.5.4.1 ELEVATOR CAR DIMENSION.
3) BARRIER-FREE DESIGN IS NOT APPLICABLE TO ALL WORK SHOPS, WORK BAYS, STORAGE & PLATFORMS, LAN, ELECTRICAL AND MECHANICAL ROOMS

LEGEND

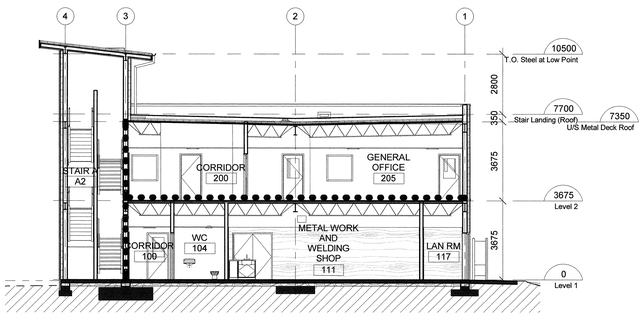
- ASSEMBLY REQUIRED MINIMUM 45 MINUTES F.R.R.
- ASSEMBLY REQUIRED MINIMUM 1 HOUR F.R.R.
- ASSEMBLY REQUIRED MINIMUM 2 HOUR F.R.R.
- BARRIER-FREE WASHROOM / SHOWER / LOCKER ROOM
- TRAVEL DISTANCE



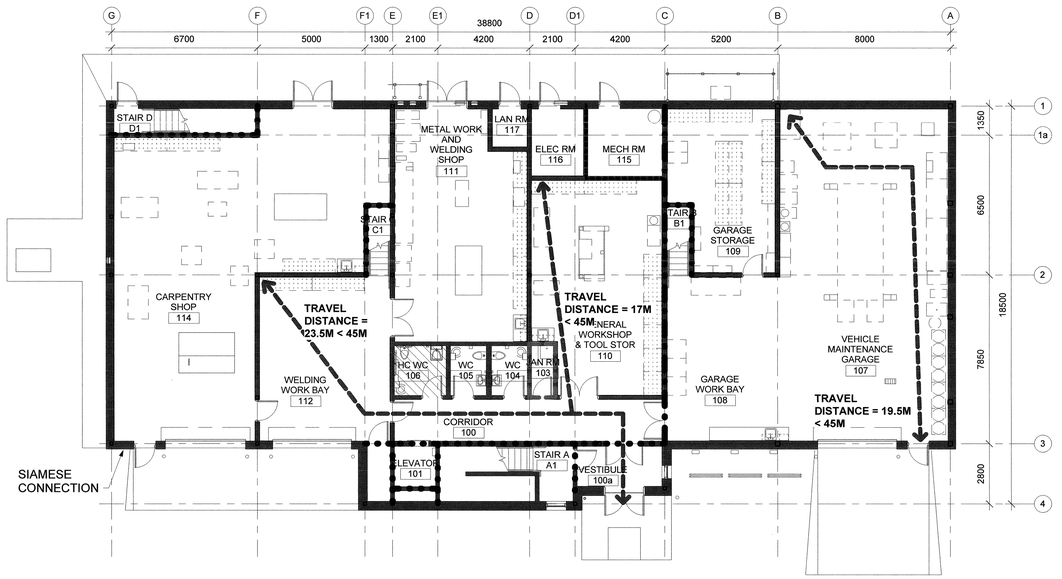
2 A200 UPPER FLOOR PLAN
1 : 100



4 A200 Building Section 2
1 : 100



3 A200 Building Section 1
1 : 100



1 A200 MAIN FLOOR PLAN
1 : 100

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REGISTERED ARCHITECT ROGER GREEN BRITISH COLUMBIA

Revision/ Revision	Description/Description	Date/Date
0	ISSUE FOR TENDER	2018-05-02

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
ROGER GREEN

Drawn by/Dessine par
RG/KL

PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAIR

PWGSC Regional Manager, Architectural and Engineering Services/ Gestionnaire régional, Services d'architecture et de génie, TPSGC
PREETIPAUL PAUL

Drawing title/Titre du dessin

BUILDING CODE COMPLIANCE PLANS AND SECTIONS

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	A200	0

PWGSC – A0 – 1189X841

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4/30/2018 9:30:58 AM

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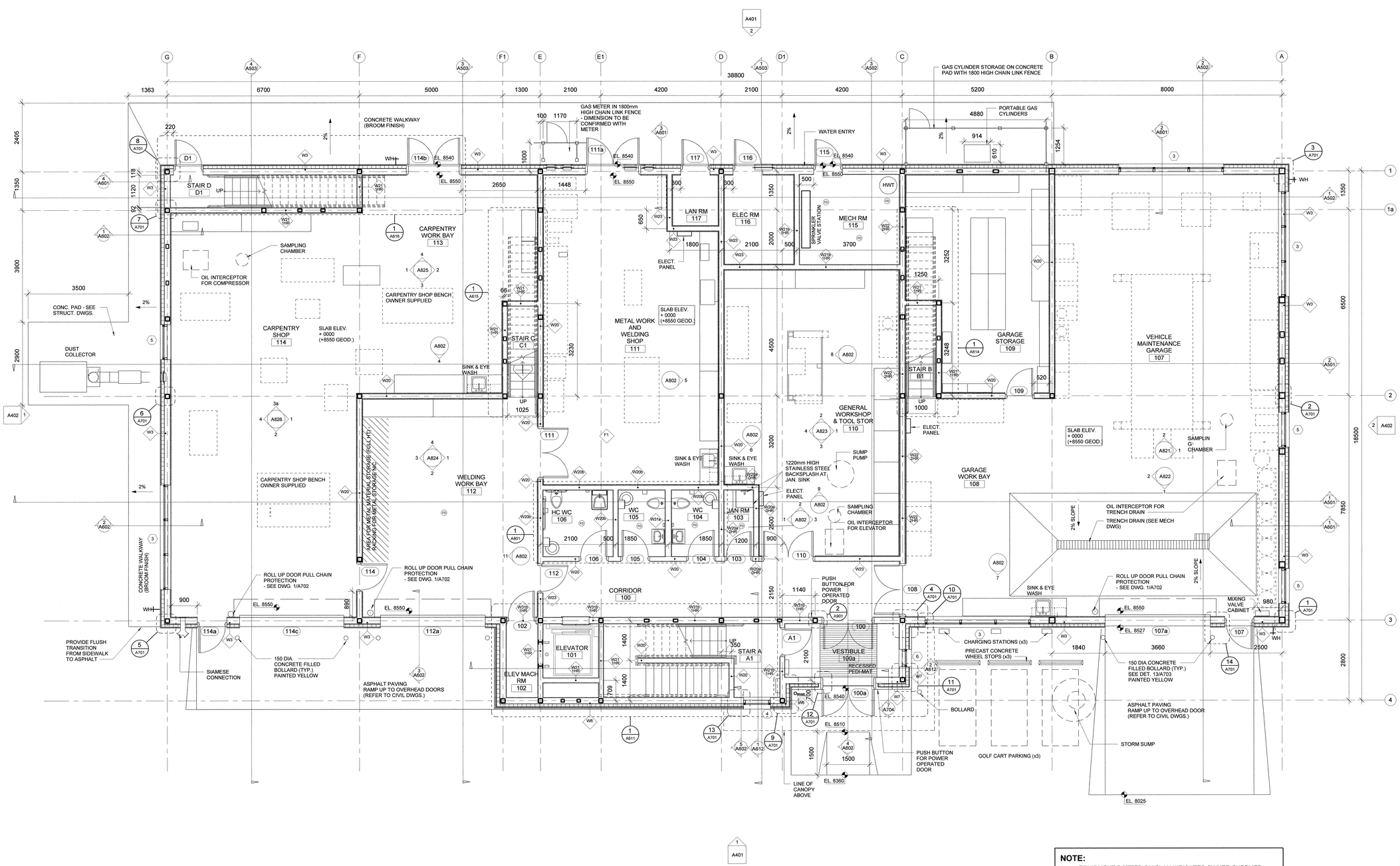

NOTE:

1. EQUIPMENT DOTTED ON PLAN INDICATES OWNER SUPPLIED CONTRACTOR INSTALLED EQUIPMENT/FURNITURE. REFER TO DRAWINGS A-211 THROUGH A-222 FOR ADDITIONAL INFORMATION
2. REFER TO SHEET A-902 FOR EXTENT OF PLYWOOD ON WALLS.

LEGEND:

- OWNER SUPPLIED EQUIPMENT/FURNITURE
- STORAGE AREA

project north
131.5°
NORTH

REGISTERED ARCHITECT
ROGER GREEN
BRITISH COLUMBIA

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PREETIPAUL PAUL

Drawing title/Titre du dessin

BASE BUILDING - MAIN FLOOR PLAN (Level 1)

Project No./No. du projet	Sheet/ Feuille	Revision no./ Le Révision no.
R.069377.001	A201	0

PWGSC – AO – 11859X841

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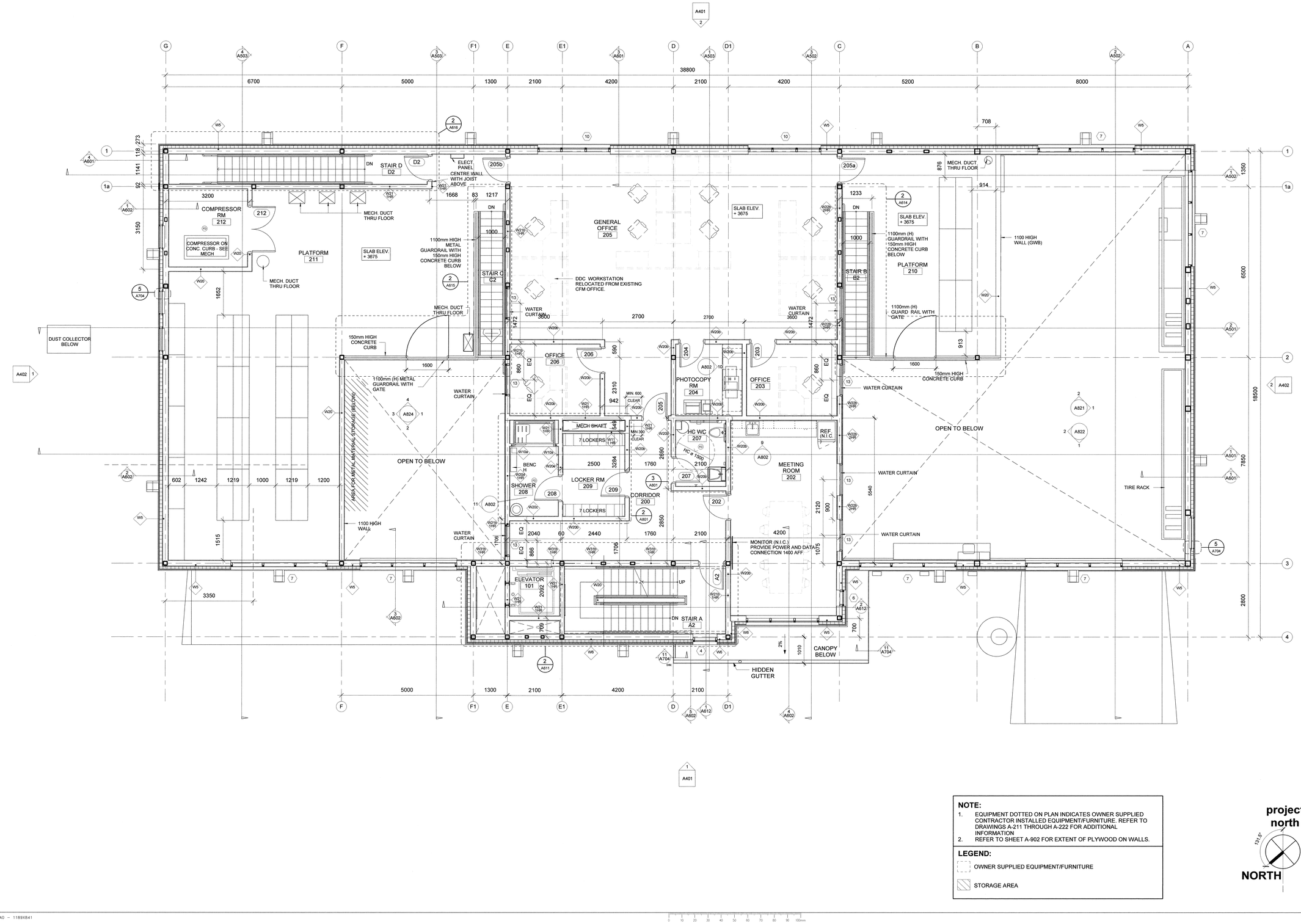

NOTE:

1. EQUIPMENT DOTTED ON PLAN INDICATES OWNER SUPPLIED CONTRACTOR INSTALLED EQUIPMENT/FURNITURE. REFER TO DRAWINGS A-211 THROUGH A-222 FOR ADDITIONAL INFORMATION
2. REFER TO SHEET A-902 FOR EXTENT OF PLYWOOD ON WALLS.

LEGEND:

OWNER SUPPLIED EQUIPMENT/FURNITURE

STORAGE AREA

project north

131.5°

NORTH

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REGISTERED ARCHITECT
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CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

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DARYL SINCLAR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régional, Services d'architectural et de génie, TPSGC
PREETIPAUL PAUL

Drawing title/Titre du dessin

BASE BUILDING - UPPER FLOOR PLAN (Level 2)

Project No./No. du projet	Sheet/ Feuille	Revision no./ Le Révision no.
R.069377.001	A202	0

PWGSC – A0 – 11894X841

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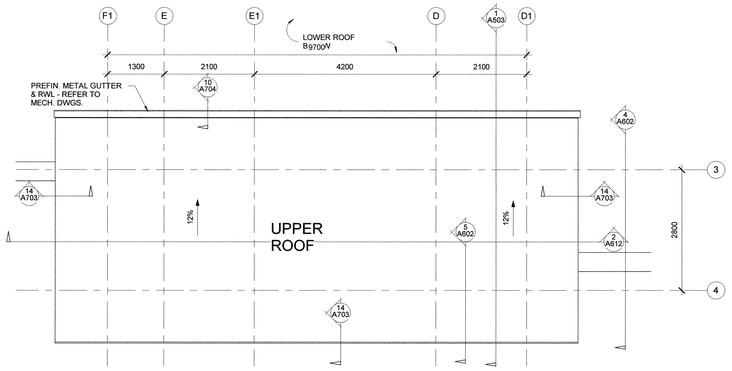
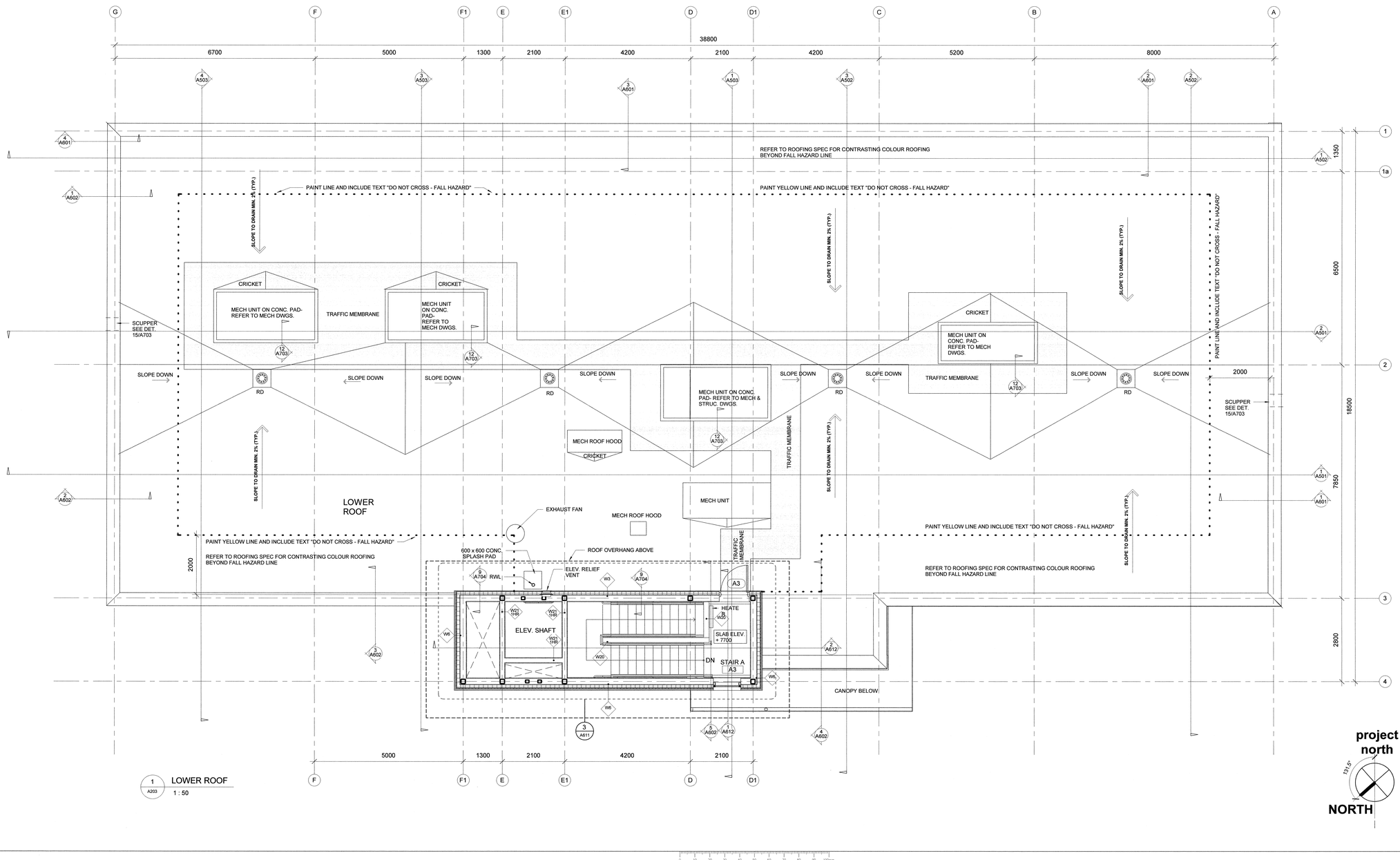


2 A203 UPPER ROOF
1 : 50



1 A203 LOWER ROOF
1 : 50

project north
131.5°
NORTH

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REGISTERED ARCHITECT
JOHN K. KEAY
BRITISH COLUMBIA

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Project title/Titre du projet

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PREETIPAUL PAUL

Drawing title/Titre du dessin

BASE BUILDING - LOWER & UPPER ROOF PLANS

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	A203	0

PWGSC – A0 – 1189X841

4/30/2018 9:31:06 AM

A1a GRINDER - SMALL

A1 WORKBENCH - A

WORKBENCH - B

WORKBENCH - C

DRILL PRESS

ANVIL

PARTS WASHER

OIL DRUM

SPILL PALLET

A1 WORK BENCH x 3
A1a GRINDER - SMALL

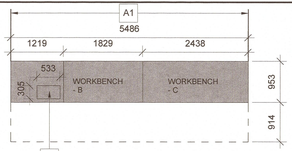
WORK BENCH

WORK BENCH

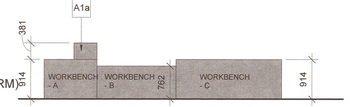
A2 DRILL PRESS, ANVIL & PARTS WASHER

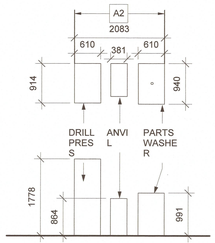
A3 OIL DRUM UNIT x 4

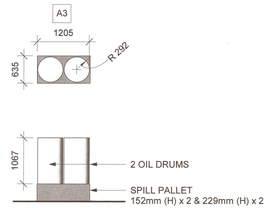
FLOOR PLAN



ELEVATION (IN BLOCK FORM)

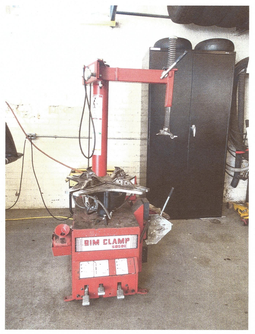






A4b SPILL CONTROL STATION

A4a SPILL KIT



A4a SPILL KIT
A4b SPILL CONTROL STATION

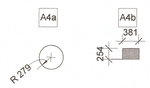
A5 BRAKE LATHE

A6 BALANCER

A7 TIRE MACHINE

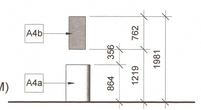
A8 HYDRAULIC PRESS

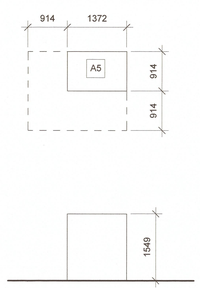
FLOOR PLAN

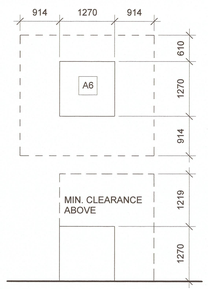


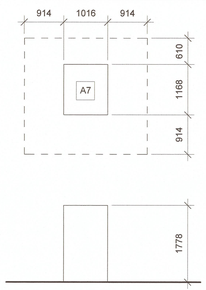
NOTE: SPILL CONTROL STATION & SPILL KIT WILL BE LOCATED CLOSE TO EACH OTHER AS SHOWN ON ELEVATION BELOW.

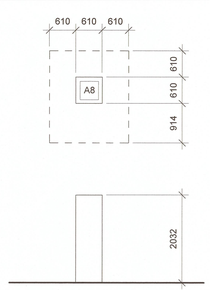
ELEVATION (IN BLOCK FORM)

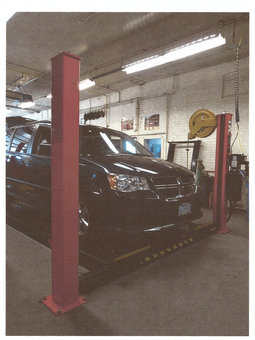








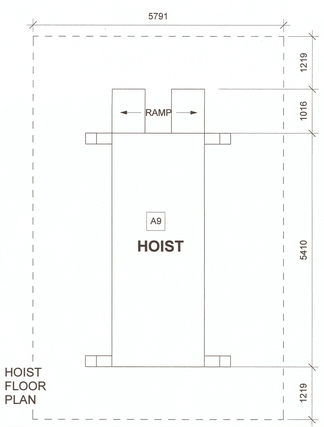




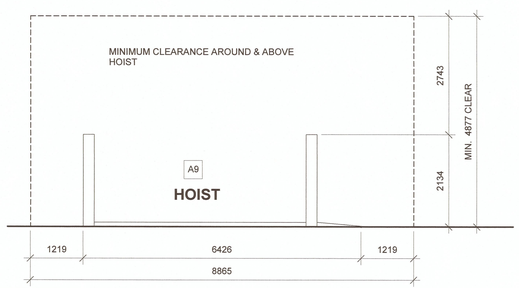
A9 HOIST

HOIST

HOIST FLOOR PLAN



HOIST SIDE ELEVATION



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Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada
REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

DGBK

REGISTERED ARCHITECT PROVINCE OF BRITISH COLUMBIA

Revision/ Revision	Description/Description	Date/Date
0	ISSUE FOR TENDER	2018-05-02

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
ROGER GREEN

Drawn by/Dessiné par
RG

PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAR

PWGSC Regional Manager, Architectural and Engineering Services/ Gestionnaire régional, Services d'architecture et de génie, TPSGC
PREETIPAUL PAUL

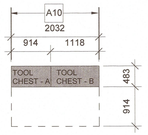
Drawing title/Titre du dessin

RM 107 VEHICLE MAINTENANCE GARAGE - EQUIPMENT INFORMATION

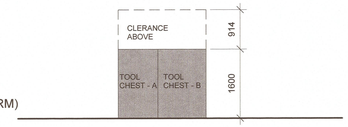
Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	A211	0

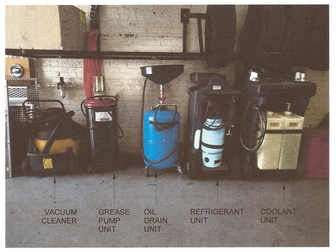
A10 TOOL CHEST x 2 (MOBILE)

FLOOR PLAN



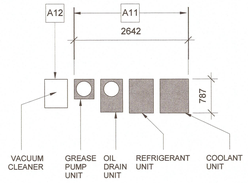
ELEVATION
(IN BLOCK FORM)



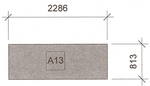


A11 AUTO REPAIR UNIT x 4 (MOBILE)

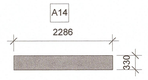
A12 VACUUM CLEANER (MOBILE)



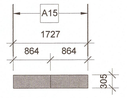
A13 BENCH (MOBILE)



A14 PARTS SHELF - A



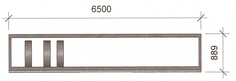
A15 PARTS SHELF - B x 2



EXISTING TIRE RACKS FOR REFERENCE ONLY
(NEW TIRE RACKS TO BE SIMILAR)

A16 TIRE RACK x 4 - NEW NIC

FLOOR PLAN



TIRE RACK	LENGTH	TOTAL NO.
	6500mm	4

FOR STORAGE PURPOSE:

S3 FLAMMABLE STORAGE CABINET 34" (D)

S1 FLAMMABLE STORAGE CABINET 12" (D)

S4 STORAGE CABINET 16" (D)

S5 STORAGE CABINET

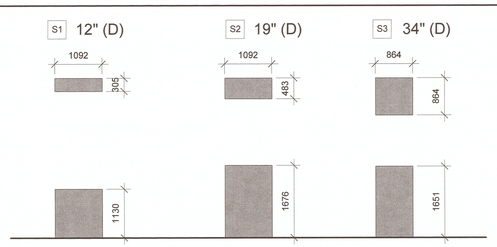
S1
S2
S3

FLAMMABLE STORAGE CABINET - EXISTING

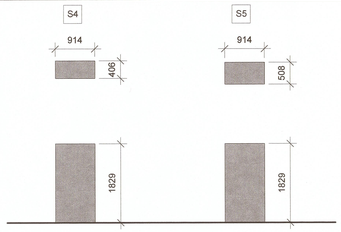
S4
S5

STORAGE CABINET 16" (D)
STORAGE CABINET 20" (D)

FLOOR PLAN



ELEVATION
(IN BLOCK FORM)



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Drawn by/Dessiné par
RG/KL

PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC
PREETIPAUL PAUL

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RM 107, 111, 112 VEHICLE MAINTENANCE GARAGE & STORAGE - EQUIPMENT INFORMATION

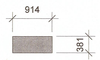
Project No./No. du projet	Sheet/ Feuille	Revision no./ Le Révision no.
R.069377.001	A212	0

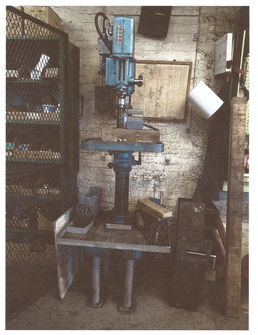
4/30/2018 9:35:02 AM

B1 WORK BENCH

B2 PLASMA

B3 MIG (MOBILE)

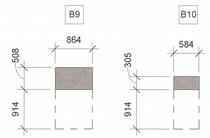




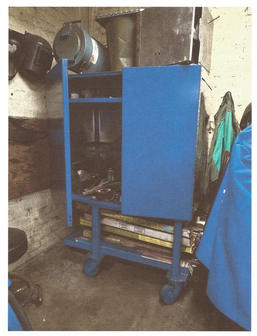
B4 TIG (MOBILE)

B9 GRINDER - LARGE

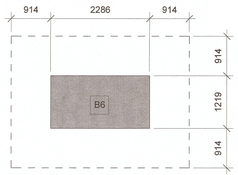
B10 GRINDER - SMALL



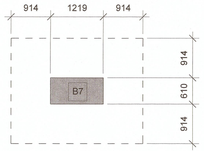
B5 WATER BATH (MOBILE)



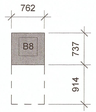
B6 WELDING TABLE



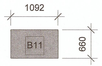
B7 BAND SAW (MOBILE)



B8 DRILL PRESS



B11 CABINET (MOBILE)



B12 GAS CYLINDERS (MOBILE)

B13 BENCH VICE

MEASUREMENTS REQUIRED

B13

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ROGER GREEN

Drawn by/Dessine par
RG

PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAR

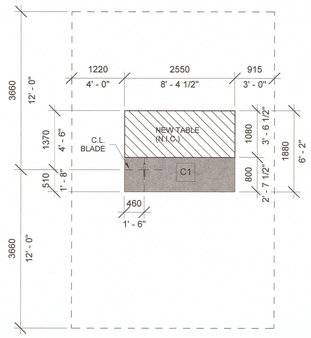
PWGSC Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PREETIPAUL PAUL

Drawing title/Titre du dessin

RM 114 METAL & WELDING SHOP - EQUIPMENT INFORMATION

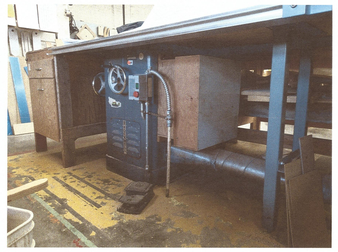
Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	A213	0

C1 TABLE SAW



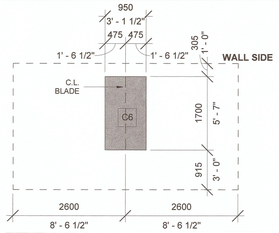
C5 SHAPER

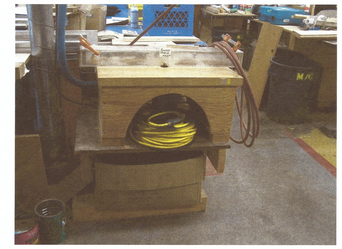
NOT FOR RELOCATION



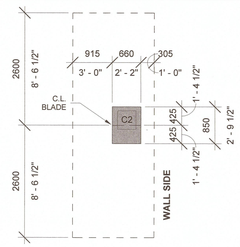
UNDER TABLE SAW

C6 BAND SAW

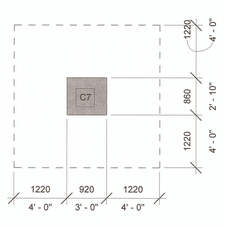




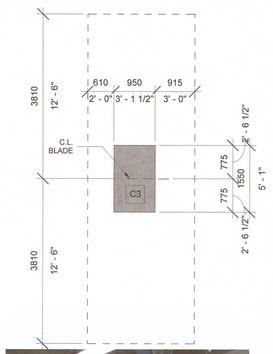
C2 ROUTER (MOBILE)



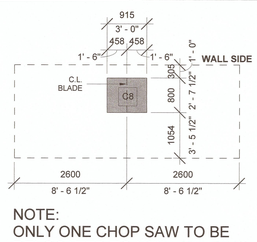
C7 SANDER



C3 PLANER

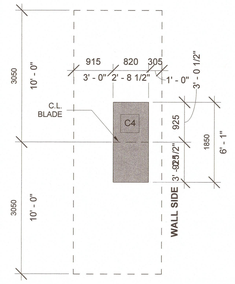


C8 CHOP SAW (MOBILE)

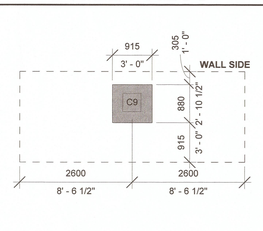


NOTE:
ONLY ONE CHOP SAW TO BE RELOCATED TO NEW BUILDING.

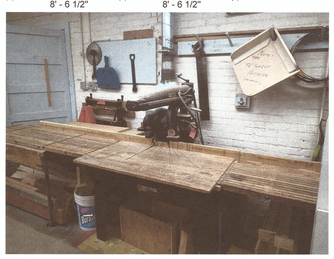
C4 JOINER



C9 DRILL PRESS



C10 GRINDER - SMALL



RADIAL ARM SAW

NOT FOR RELOCATION

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FOR NON-STRUCTURAL ELEMENTS I.E. FURNITURE / SHELVES OVER 3'-0" HEIGHT, TOOL/BOXES/INSTRUMENTS AND WHEEL RACKS SUPPORTED AGAINST NON STRUCTURAL WALLS AT HIGH ELEVATIONS ETC, SHALL BE RESTRAINED SEISMICALLY.

3) OWNER SUPPLIED CONTRACTOR INSTALLED (OSCI) ITEMS ARE:
3a) EXISTING EQUIPMENTS / FURNTIURE TO BE DISCONNECTED & RELOCATED TO NEW WHI MAINTENANCE BUILDING BY CONTRACTOR.

4) EQUIPMENT NOTED "**(MOBILE)**" WILL HAVE MOBILE SUPPORT WITH WHEELS TO BE PROVIDED / CUSTOM MADE BY WHI BEFORE EQUIPMENT RELOCATION

LEGEND:

- C1 SYMBOL INDICATES EXISTING EQUIPMENTS/FURNITURE (OSCI) TO BE RELOCATED TO NEW WHI MAINTENANCE BUILDING
- N1 SYMBOL WITH PRE-FIX "N" INDICATES NEW EQUIPMENTS/FURNITURE
- **DOTTED LINE INDICATES MINIMUM CLEARANCE AROUND THE EQUIPMENT**

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REAL PROPERTY SERVICES
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REGISTERED ARCHITECT BRITISH COLUMBIA

Revision/ Revision	Description/Description	Date/Date
0	ISSUE FOR TENDER	2018-05-02

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
ROGER GREEN

Drawn by/Dessiné par
RG

PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAR

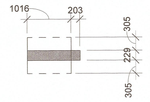
PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régional, Services d'architectural et de génie, TPSGC
PREETIPAUL PAUL

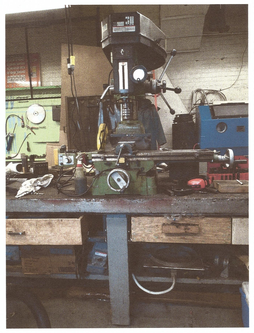
Drawing title/Titre du dessin

RM 115 CARPENTRY SHOP - EQUIPMENT INFORMATION

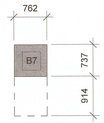
Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	A214	0

D1 **ROLLER**

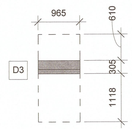




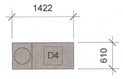
D2 **MILLER**



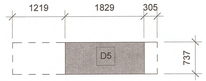
D3 **FINGER BRAKE**



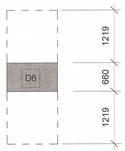
D4 **SAND BLASTER (MOBILE)**

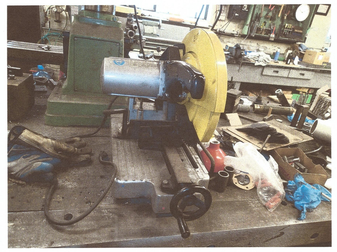


D5 **LATHE**



D6 **SHEAR**





EQUIPMENT SHOWN NOT FOR RELOCATION

EQUIPMENT SHOWN NOT FOR RELOCATION

NEW EQUIPMENT/FURNITURE (OSCI):

N1 **ALL STEEL WORK BENCH**

REFER TO SPECIFCATION 11 50 00

FLOOR PLAN

ELEVATION
(IN BLOCK FORM)

N1 PACKAGE TO INCLUDE THE FOLLOWING ELEMENTS:

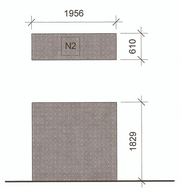
1X WORKBENCH 2440 LONG, ADJUSTABLE HEIGHT

1X GEARBOX MOBILE UNIT

1X GEARDRAWER MOBILE

N2 **STORAGE RACK**

REFER TO SPECIFICATION 10 56 20



N3 **FLAMMABLE STORAGE CABINET**

REFER TO SPECIFICATION 10 56 20

DIMENSIONS OF N3 = 1092 W x 1651 H x 864 D (mm)

NOTE:

1) EQUIPMENT DIMENSIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY ON SITE AND REPORT ANY DISCREPANCIES IMMEDIATELY.

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LEGEND:

C1 SYMBOL INDICATES EXISTING EQUIPMENTS/FURNITURE (OSCI) TO BE RELOCATED TO NEW WHI MAINTENANCE BUILDING

N1 SYMBOL WITH PRE-FIX "N" INDICATES NEW EQUIPMENTS/FURNITURE

DOTTED LINE INDICATES MINIMUM CLEARANCE AROUND THE EQUIPMENT

Public Works and Government Services Canada
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REGISTERED ARCHITECT
BRITISH COLUMBIA

Revision/ Revision	Description/Description	Date/Date
0	ISSUE FOR TENDER	2018-05-02

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
ROGER GREEN

Drawn by/Dessiné par
RG/KL

PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architecturel et de génie, TPSGC
PREETIPAUL PAUL

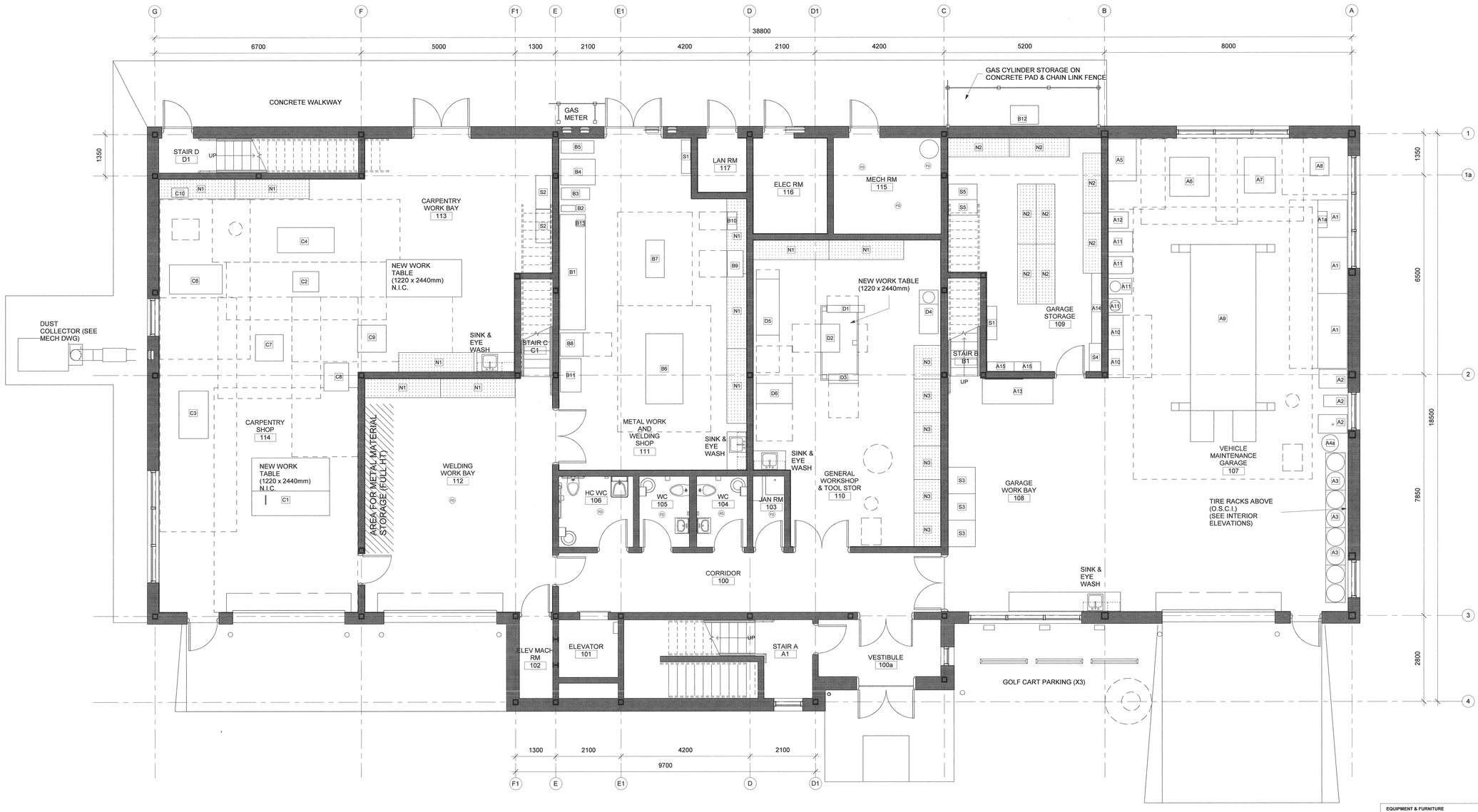
Drawing title/Titre du dessin

RM 111 GENERAL WORKSHOP - EQUIPMENT INFORMATION

Project No./No. du projet	Sheet/ Feuille	Revision no./ No. de révision
R.069377.001	A215	0

4/30/2018 9:37:58 AM

PWGSC – AO – 1189X841



1 / A221 EQUIPMENT & FURNITURE - MAIN FLOOR PLAN
1 : 50

EQUIPMENT & FURNITURE

LEGEND & GENERAL NOTE:

NOTE: REFER TO A211 TO A216 FOR DETAILED EQUIPMENT INFORMATION AND MINIMUM CLEARANCE.

- C1 — **SYMBOL FOR THE EQUIPMENT**
- **DOTTED LINE INCIDATES MINIMUM CLEARANCE AROUND THE EQUIPMENT**
- **EXISTING EQUIPMENT / FURNITURE SYSTEM TO BE RELOCATED (NOT SHADED)**
- **NEW STORAGE & WORK BENCH/TABLE (SHADED)**

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Drawn by/Dessine par
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PWGSC Project Manager/Administrateur de Projets TPSGC
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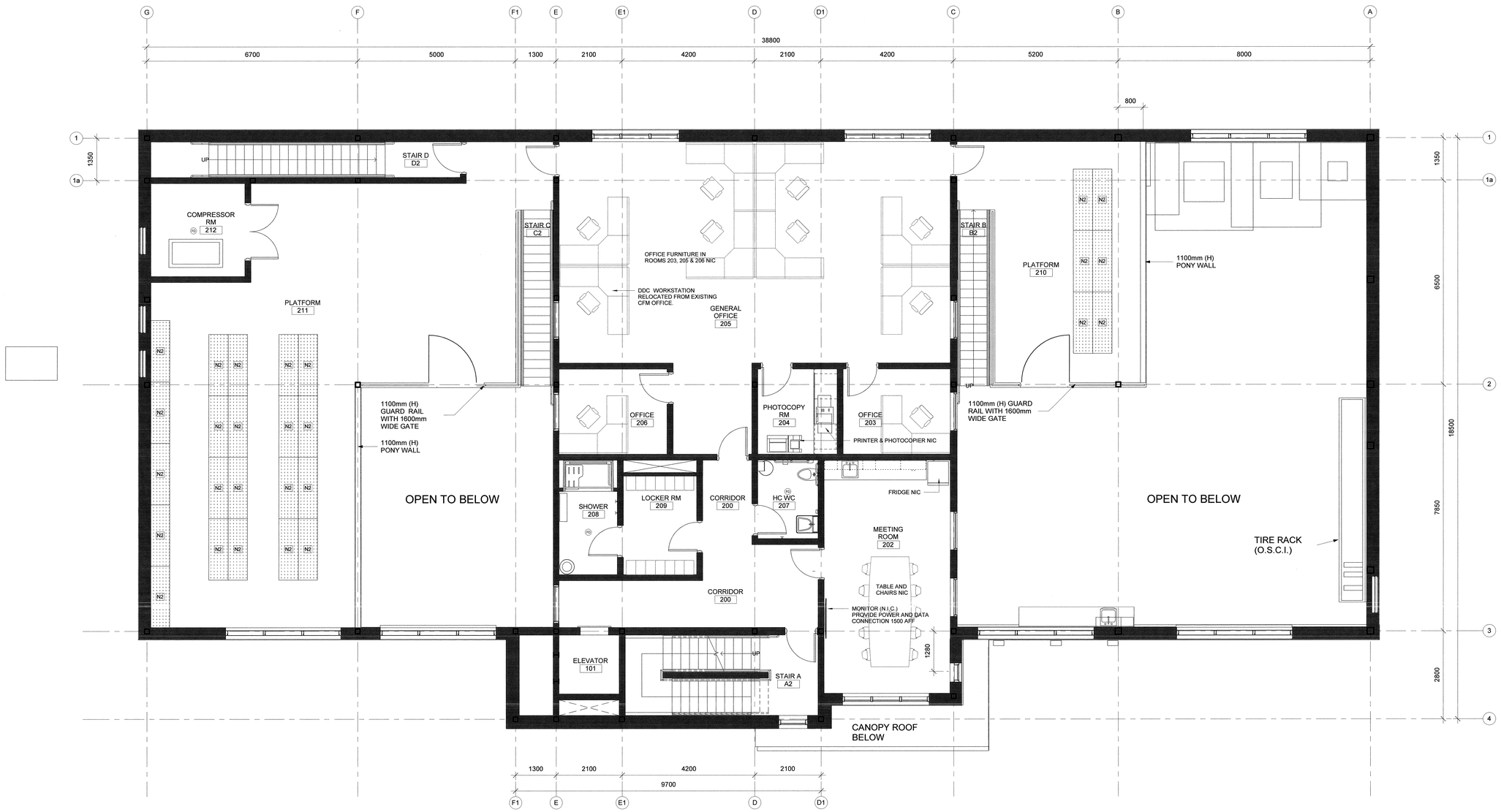
PREETIPAUL PAUL

Drawing title/Titre du dessin

EQUIPMENT & FURNITURE PLAN - MAIN FLOOR PLAN

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	A221	0



1 / A222 UPPER FLOOR PLAN
1 : 50

EQUIPMENT & FURNITURE

LEGEND & GENERAL NOTE:

NOTE: REFER TO A211 TO A215 FOR DETAILED EQUIPMENT INFORMATION AND MINIMUM CLEARANCE.

- (R) **SYMBOL FOR THE EQUIPMENT**
- **DOTTED LINE INCIDATES MINIMUM CLEARANCE AROUND THE EQUIPMENT**
- **EXISTING EQUIPMENT / FURNITURE SYSTEM TO BE RELOCATED (NOT SHADED)**
- **NEW STORAGE & WORK BENCH/TABLE (SHADED)**

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REGISTERED ARCHITECT
BRITISH COLUMBIA

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0	ISSUE FOR TENDER	2018-05-02

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CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
ROGER GREEN

Drawn by/Dessine par
RG

PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régional, Services d'architectural et de génie, TPSGC
PREETIPAUL PAUL

Drawing title/Titre du dessin

EQUIPMENT & FURNITURE PLAN - UPPER FLOOR PLAN

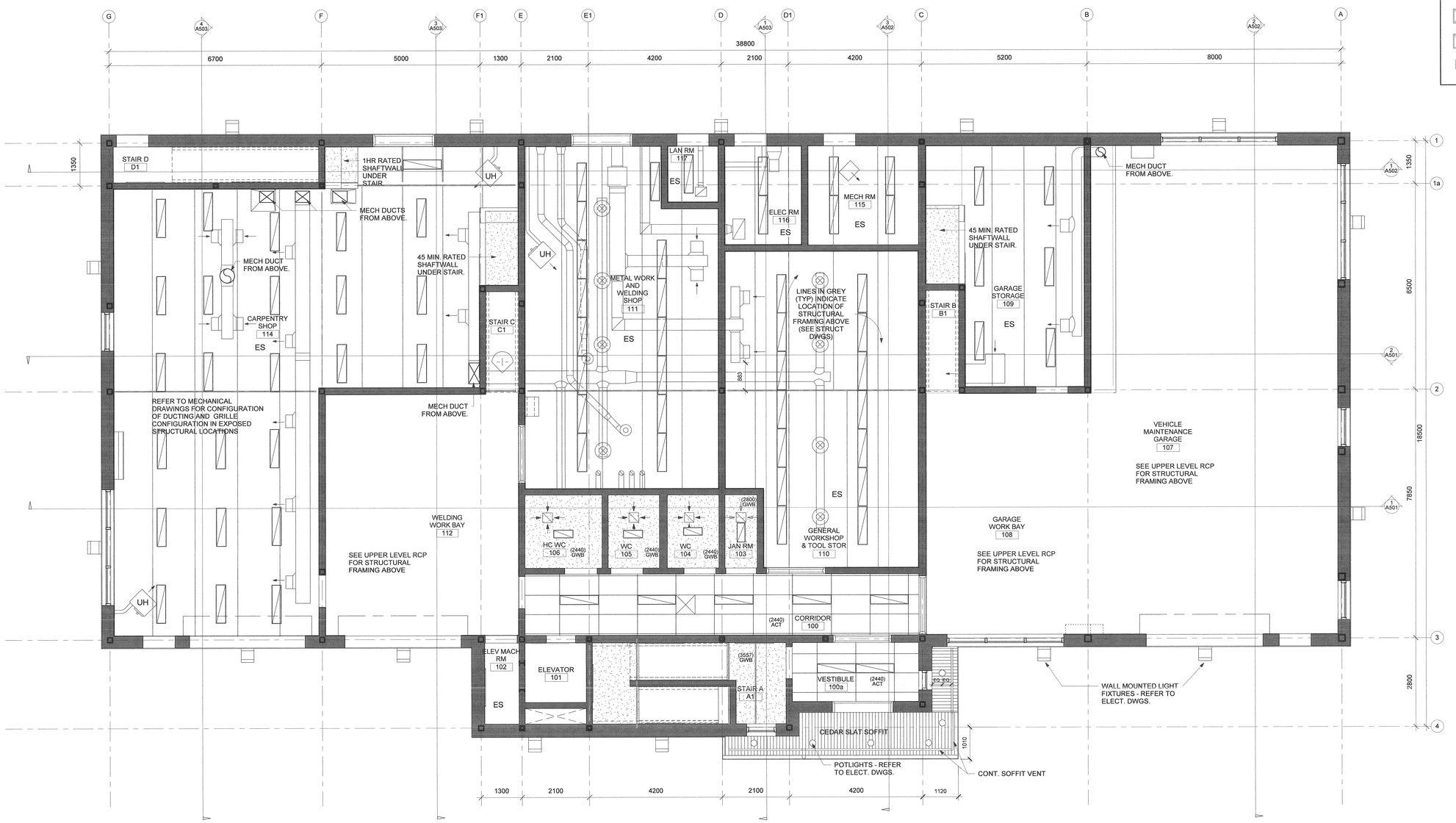
Project No./No. du projet	Sheet/ Feuille	Revision no./ Le Révision no.
R.069377.001	A222	0

RCP NOTES:

1. CONTINUE TYPE "X" GWB FOR ALL FIRE RATED WALLS TO U/S STRUCTURE ABOVE AND USE FIRE RATED CAULKING.
2. 2 LAYERS OF TYPE "X" GWB AT U/S OF STAIR AND LANDING AND USE FIRE RATED CAULKING.
3. GWB CEILING ACCESS PANELS TO BE SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR.
4. FOR SPRINKLER HEAD LAYOUT REFER TO FIRE PROTECTION DWGS.

RCP LEGEND

- ACT — 610MM X 1220MM SUSPENDED ACOUSTIC TILE CEILING
- GWB — PAINTED SUSPENDED GYPSUM WALL BOARD CEILING
- CEDAR SLAT SOFFIT
- ES — EXPOSED TO U/S STRUCTURE. NO FINISHED CEILING
- LIGHT FIXTURE (REFER TO ELECT DWGS)
- LIGHT FIXTURE (REFER TO ELECT DWGS)
- LIGHT FIXTURE (REFER TO ELECT DWGS)
- RECESSED POTLIGHT (REFER TO ELECT DWGS)
- WALL MOUNTED STRIP LIGHTING (REFER TO ELECT DWGS)
- SUPPLY AIR DIFFUSER (REFER TO MECH DWGS)
- EXHAUST/RETURN AIR DIFFUSER (REFER TO MECH DWGS)
- UH — UNIT HEATER (REFER TO MECH DWGS)



1 / A200 — RCP - MAIN FLOOR & U/S CANOPY
1 : 50

project north
131.6°
NORTH

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REGISTERED ARCHITECT — PROVINCE OF BRITISH COLUMBIA

Revision/ Revision	Description/Description	Date/Date
0	ISSUE FOR TENDER	2018-05-02

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par: ROGER GREEN

Drawn by/Dessine par: VR/KL

PWGSC Project Manager/Administrateur de Projets TPSGC: DARYL SINCLAR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architecture et de génie, TPSGC: PREETIPAUL PAUL

Drawing title/Titre du dessin

REFLECTED CEILING PLAN - MAIN FLOOR & U/S CANOPY

Project No./No. du projet	Sheet/ Feuille	Revision no./ Lo Révision no.
R.069377.001	A301	0

PWGSC – AO – 1189X841

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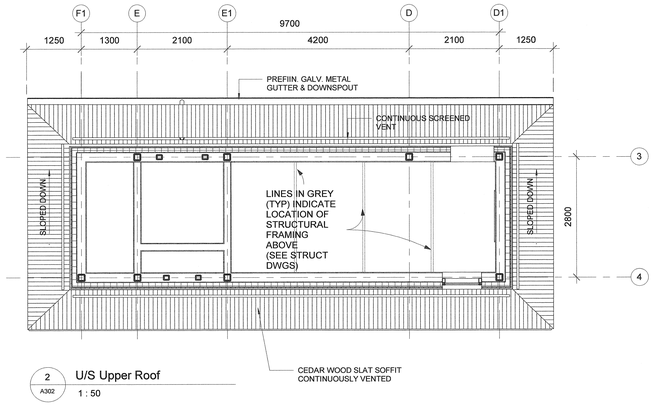


2 / A302 U/S Upper Roof

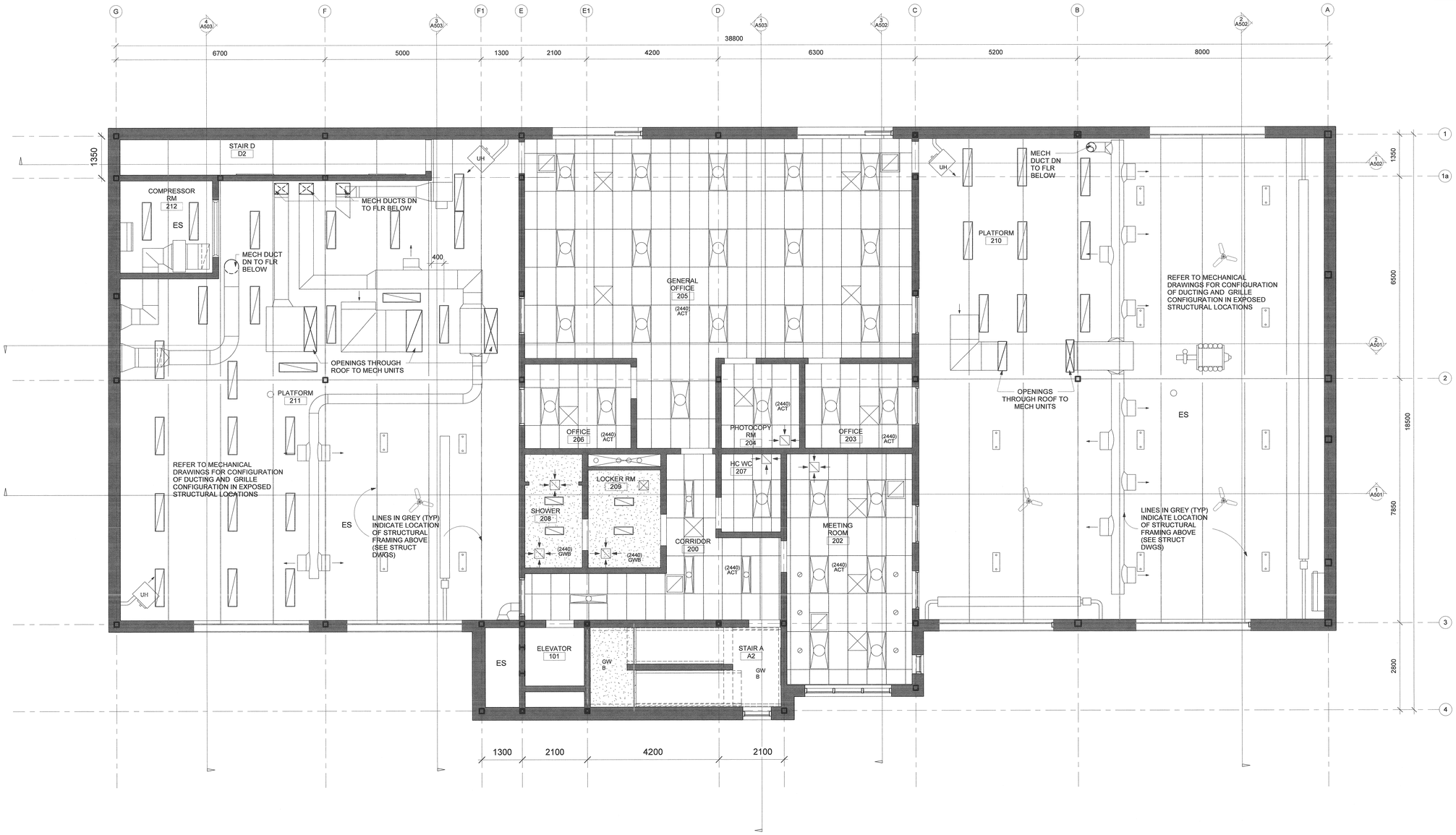
1 : 50

RCP NOTES:

1. CONTINUE TYPE "X" GWB FOR ALL FIRE RATED WALLS TO U/S STRUCTURE ABOVE AND USE FIRE RATED CAULKING.
2. 2 LAYERS OF TYPE "X" GWB AT U/S OF STAIR AND LANDING AND USE FIRE RATED CAULKING.
3. GWB CEILING ACCESS PANELS TO BE SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR.
4. FOR SPRINKLER HEAD LAYOUT REFER TO FIRE PROTECTION DWGS.

RCP LEGEND

- ACT — 610MM X 1220MM SUSPENDED ACOUSTIC TILE CEILING
- GWB — PAINTED SUSPENDED GYPSUM WALL BOARD CEILING
- CEDAR SLAT SOFFIT
- ES — EXPOSED TO U/S STRUCTURE. NO FINISHED CEILING
- LIGHT FIXTURE (REFER TO ELECT DWGS)
- LIGHT FIXTURE (REFER TO ELECT DWGS)
- LIGHT FIXTURE (REFER TO ELECT DWGS)
- RECESSED POTLIGHT (REFER TO ELECT DWGS)
- WALL MOUNTED STRIP LIGHTING (REFER TO ELECT DWGS)
- SUPPLY AIR DIFFUSER (REFER TO MECH DWGS)
- EXHAUST/RETURN AIR DIFFUSER (REFER TO MECH DWGS)
- UH — UNIT HEATER (REFER TO MECH DWGS)



1 / A302 RCP - Level 2

1 : 50

project north

131.5°

NORTH

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
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REGISTERED ARCHITECT — JOHN KIM — BRITISH COLUMBIA

Revision/ Revision	Description/Description	Date/Date
0	ISSUE FOR TENDER	2018-05-02

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par: ROGER GREEN

Drawn by/Dessiné par: VR/KL

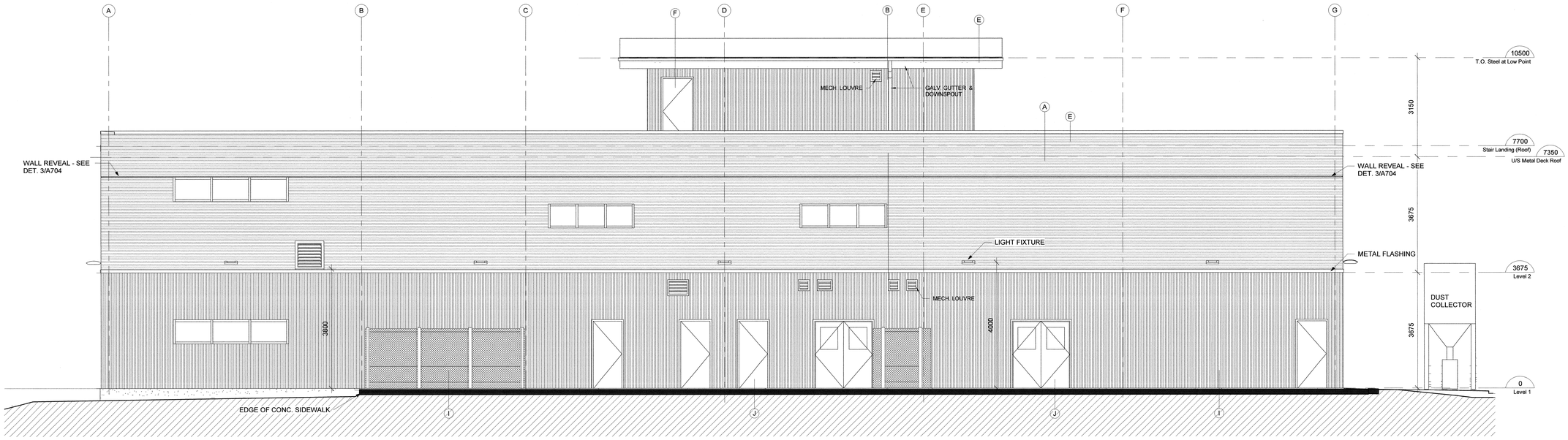
PWGSC Project Manager/Administrateur de Projets TPSGC: DARYL SINCLAIR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architecture et de génie, TPSGC: PREETIPAUL PAUL

Drawing title/Titre du dessin

REFLECTED CEILING PLAN - UPPER FLOOR & LOWER ROOF

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	A302	0

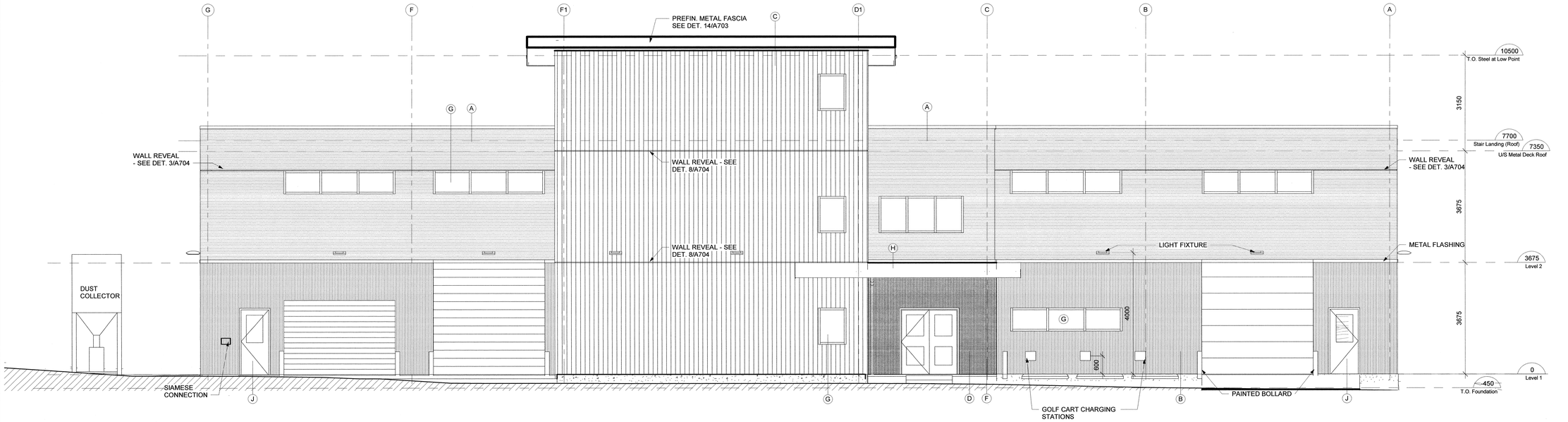


2 / A201 NORTH (BACK) ELEVATION

1 : 50

BUILDING FINISHES LEGEND

- (A) PRE-FINISHED HORIZONTAL CORRUGATED METAL CLADDING - SILVER METALLIC
- (B) PRE-FINISHED VERTICAL CORRUGATED METAL CLADDING - SILVER METALLIC
- (C) CEDAR BOARD & BATTEN CLADDING - WEATHERED WOOD STAIN FINISH
- (D) CEDAR SLAT CLADDING - CLEAR STAIN FINISH
- (E) PRE-FINISHED METAL FLASHING - SILVER METALLIC
- (F) ALUMINUM DOOR & FRAME - CLEAR ANODIZED
- (G) GLAZED SEALED UNIT
- (H) ROOF CANOPY - CHARCOAL GREY FLASHING
- (I) METAL CHAIN LINK FENCING
- (J) PRESSED STEEL DOOR AND FRAME - CHARCOAL GREY FINISH



1 / A201 SOUTH (FRONT) ELEVATION

1 : 50

Public Works and Government Services Canada
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REGISTERED ARCHITECT PROVINCE OF BRITISH COLUMBIA

Revision/ Revision	Description/Description	Date/Date
0	ISSUE FOR TENDER	2018-05-02

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CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
ROGER GREEN

Drawn by/Dessiné par
VR

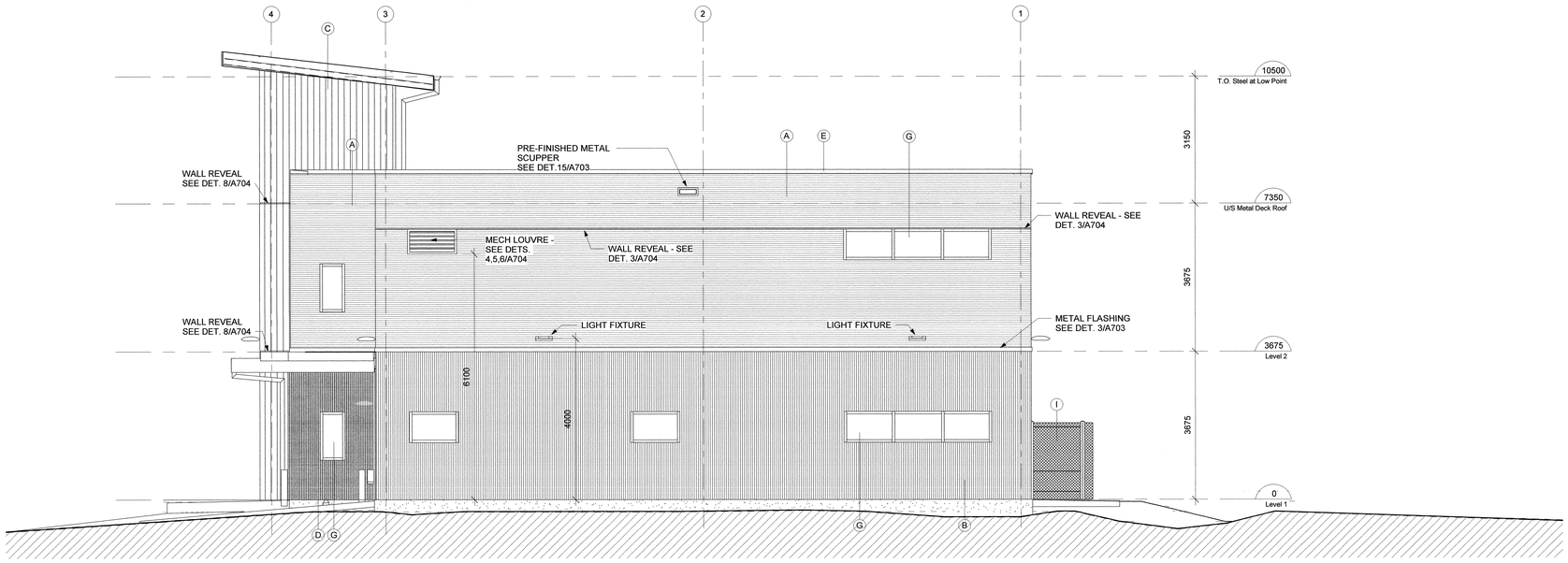
PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAR

PWGSC Regional Manager, Architectural and Engineering Services/ Gestionnaire régional, Services d'architecture et de génie, TPSGC
PREETIPAUL PAUL

Drawing title/Titre du dessin

FRONT & BACK ELEVATIONS

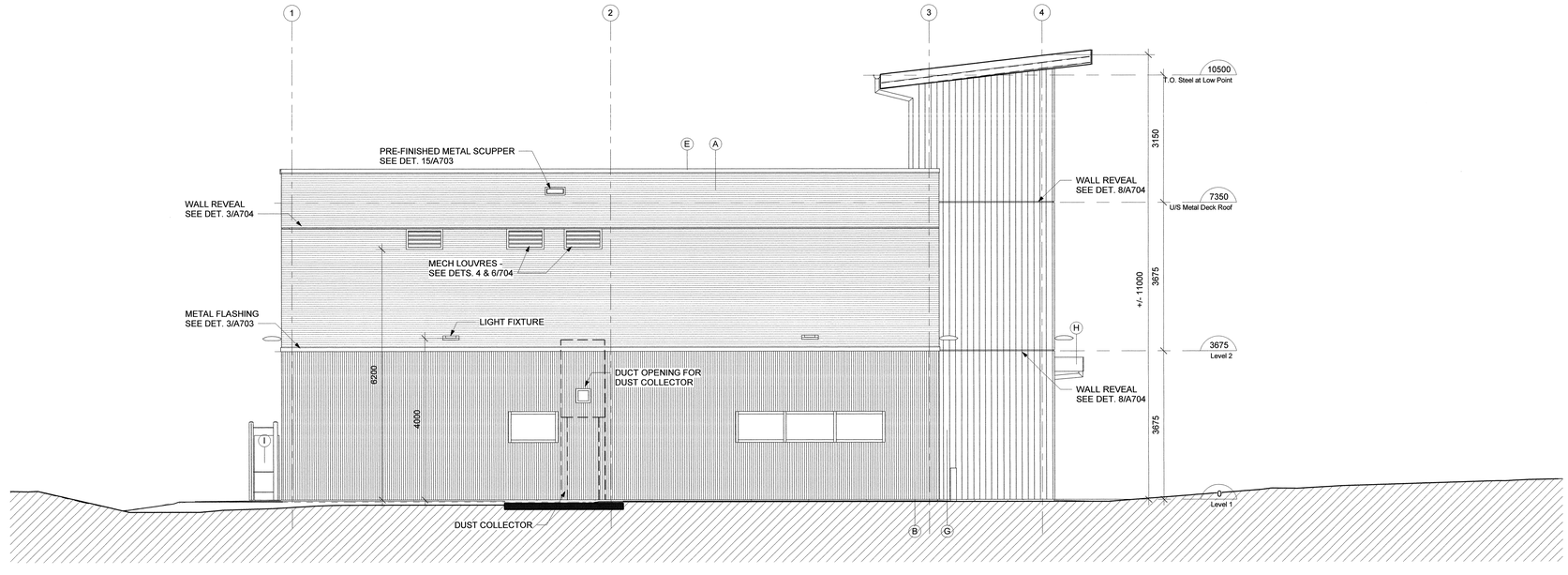
Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	A401	0



2 A402 EAST ELEVATION
1 : 50

BUILDING FINISHES LEGEND

- (A) PRE-FINISHED HORIZONTAL CORRUGATED METAL CLADDING - SILVER METALLIC
- (B) PRE-FINISHED VERTICAL CORRUGATED METAL CLADDING - SILVER METALLIC
- (C) CEDAR BOARD & BATTEN CLADDING - WEATHERED WOOD STAIN FINISH
- (D) CEDAR SLAT CLADDING - CLEAR STAIN FINISH
- (E) PRE-FINISHED METAL FLASHING - SILVER METALLIC
- (F) ALUMINUM DOOR & FRAME - CLEAR ANODIZED
- (G) GLAZED SEALED UNIT
- (H) ROOF CANOPY - CHARCOAL GREY FLASHING
- (I) METAL CHAIN LINK FENCING
- (J) PRESSED STEEL DOOR AND FRAME - CHARCOAL GREY FINISH



1 A402 WEST ELEVATION
1 : 50

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Région de Pacifique

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PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PREETIPAUL PAUL

Drawing title/Titre du dessin

SIDE ELEVATIONS

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	A402	0

PWGSC – A0 – 1189X841

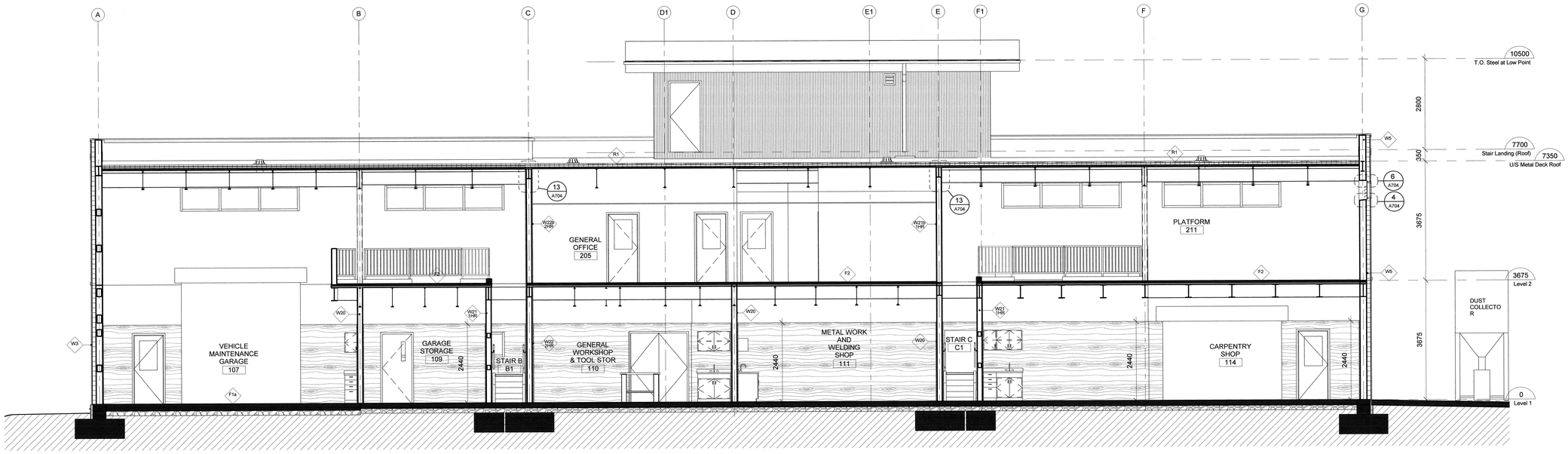
0 10 20 30 40 50 60 70 80 90 100mm

4/30/2018 9:38:13 AM

BUILDING SECTION NOTES:

1) OWNER SUPPLIED CONTRACTOR INSTALLED (OSCI) EQUIPMENT ARE NOT SHOWN FOR CLARITY.

2) FOR OSCI INFORMATION, REFER TO DRAWING A211 -A222 SERIES FOR DETAILS



2 / A501 Building Section 2-2

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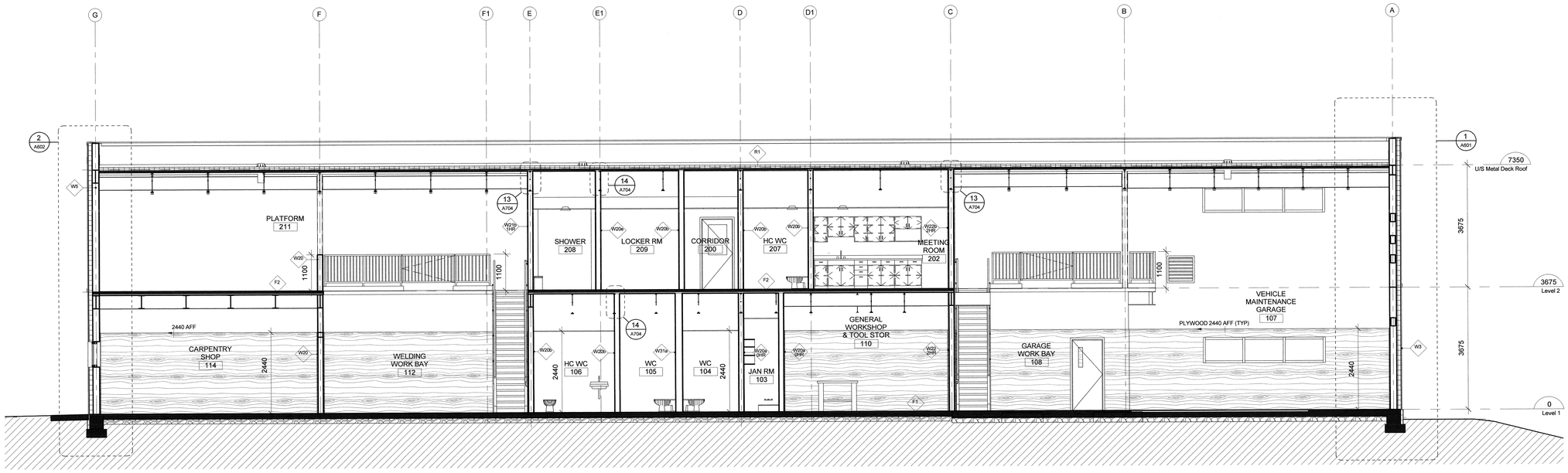

1 / A501 Building Section 1-1

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Public Works and Government Services Canada
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REAL PROPERTY SERVICES
Pacific Region
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REGISTERED ARCHITECT
PAUL PREETIPAUL
BRITISH COLUMBIA

Revision/ Revision	Description/Description	Date/Date
0	ISSUE FOR TENDER	2018-05-02

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
ROGER GREEN

Drawn by/Dessine par
VR

PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAIR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC
PREETIPAUL PAUL

Drawing title/Titre du dessin

BUILDING SECTIONS

Project No./No. du projet	Sheet/ Feuille	Revision no./ Lé Révision no.
R.069377.001	A501	0

4/30/2018 9:38:16 AM

PWGSC – A0 – 1189X841

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

BUILDING SECTION NOTES:

1) OWNER SUPPLIED CONTRACTOR INSTALLED (OSCI) EQUIPMENT ARE NOT SHOWN FOR CLARITY.

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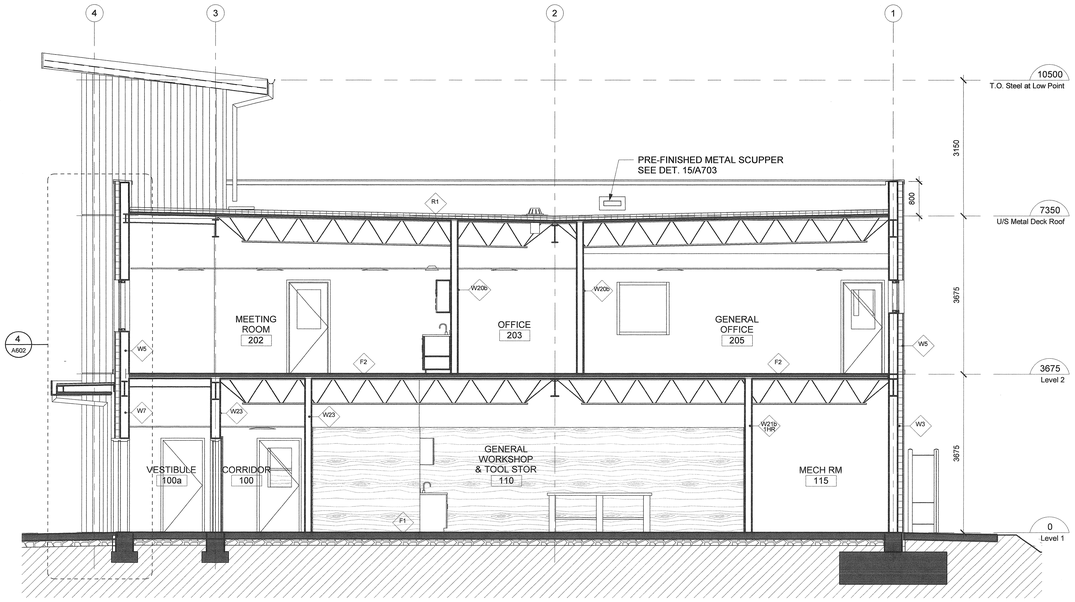

3 A502 Building Section B-B
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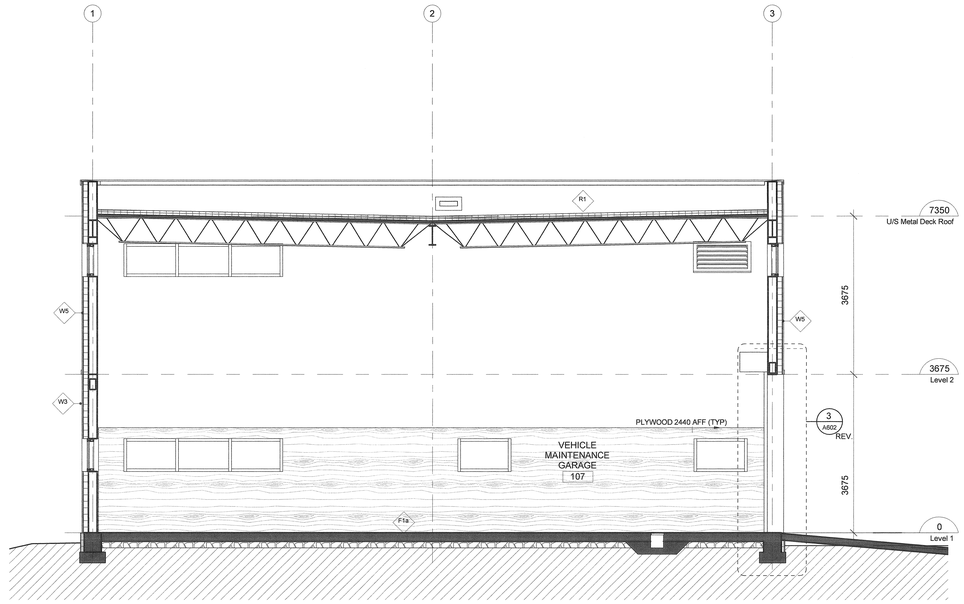

2 A502 Building Section A-A
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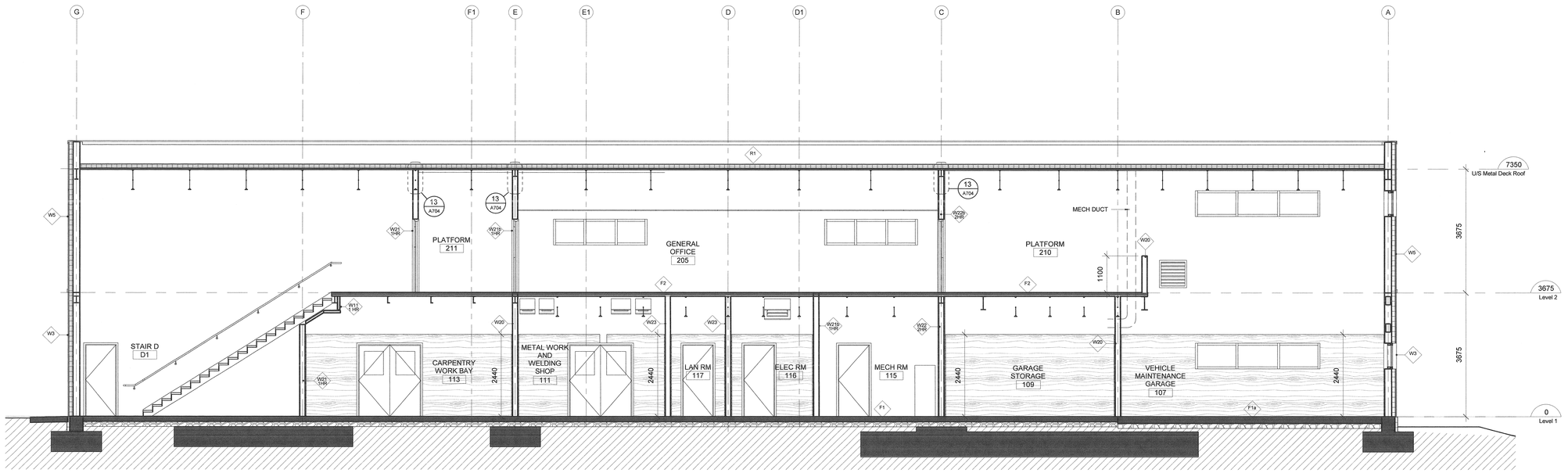

1 A502 Building Section 3-3
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Pacific Region
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Région de Pacifique

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REGISTERED ARCHITECT
DARYL SINCLAIR
BRITISH COLUMBIA

Revision/ Revision	Description/Description	Date/Date
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CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

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VR

PWGSC Project Manager/Administrateur de Projets TPSGC
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PWGSC Regional Manager, Architectural and Engineering Services/ Gestionnaire régional, Services d'architectural et de génie, TPSGC
PREETIPAUL PAUL

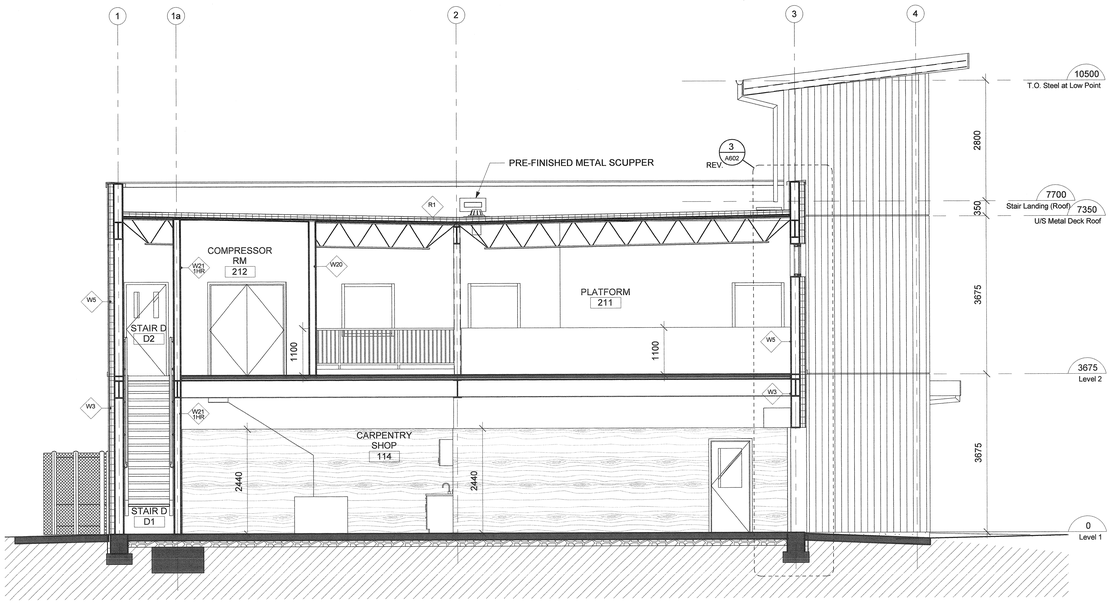
Drawing title/Titre du dessin

BUILDING SECTIONS

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	A502	0

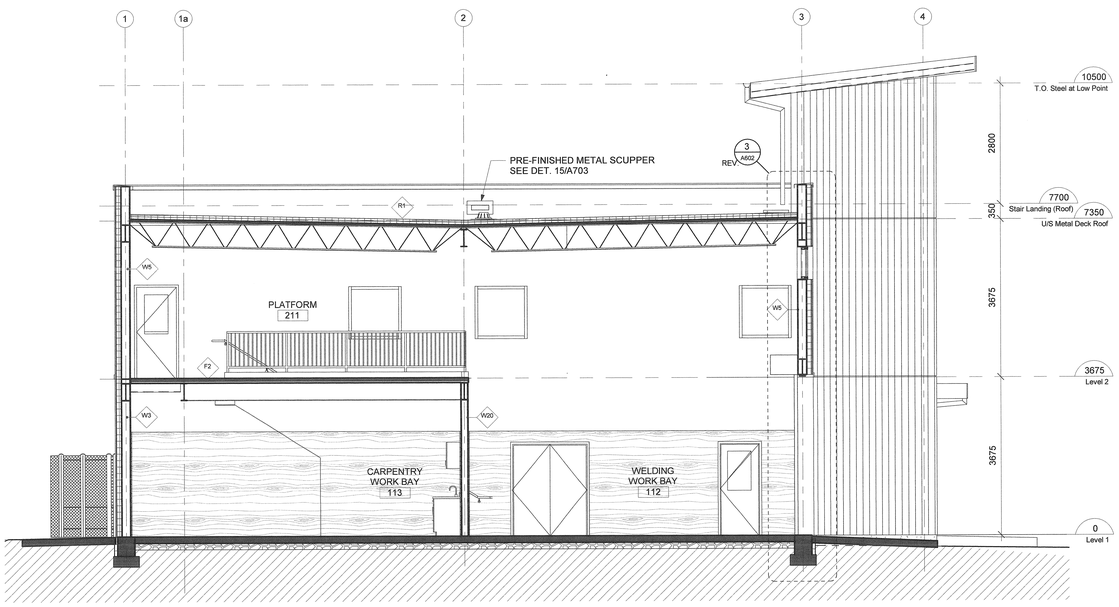
PWGSC – A0 – 1189X841

4/30/2018 9:38:19 AM



4 A503 Building Section F-F

1 : 50



3 A201 Building Section E-E

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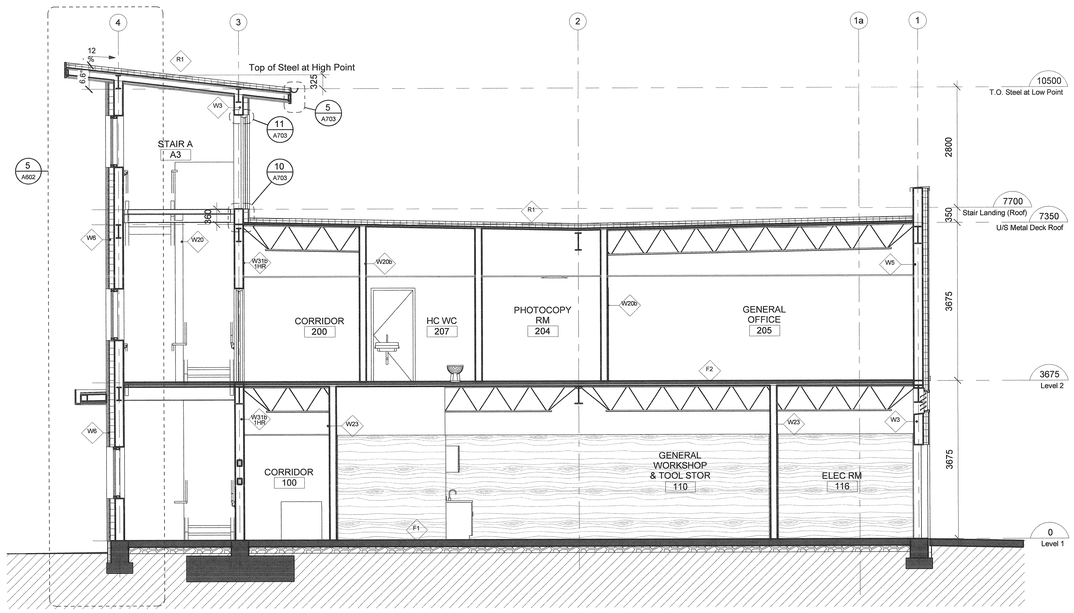

1 A503 Building Section C-C

1 : 50

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PAUL PREETIPAUL
BRITISH COLUMBIA

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DARYL SINCLAR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC
PREETIPAUL PAUL

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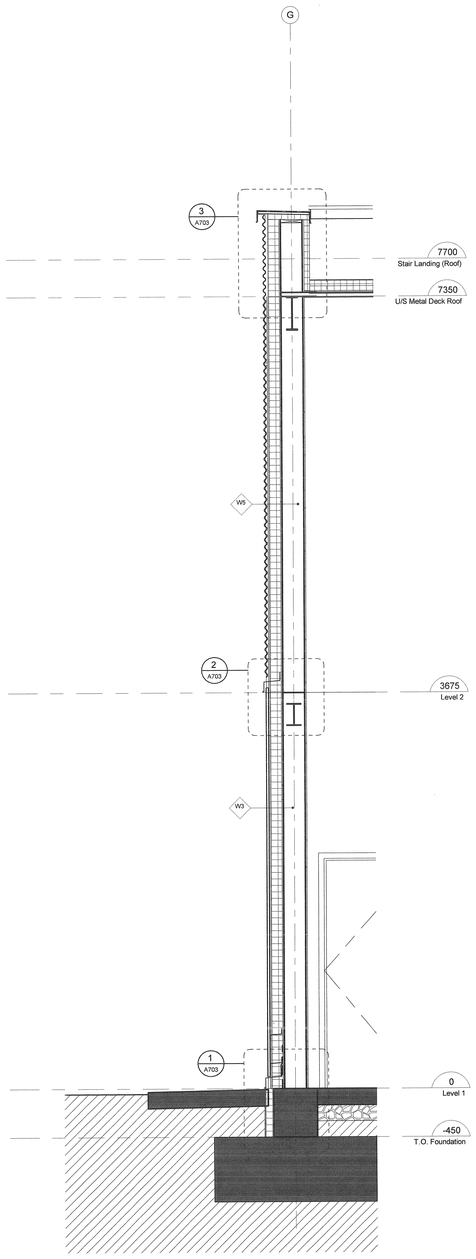
BUILDING SECTIONS

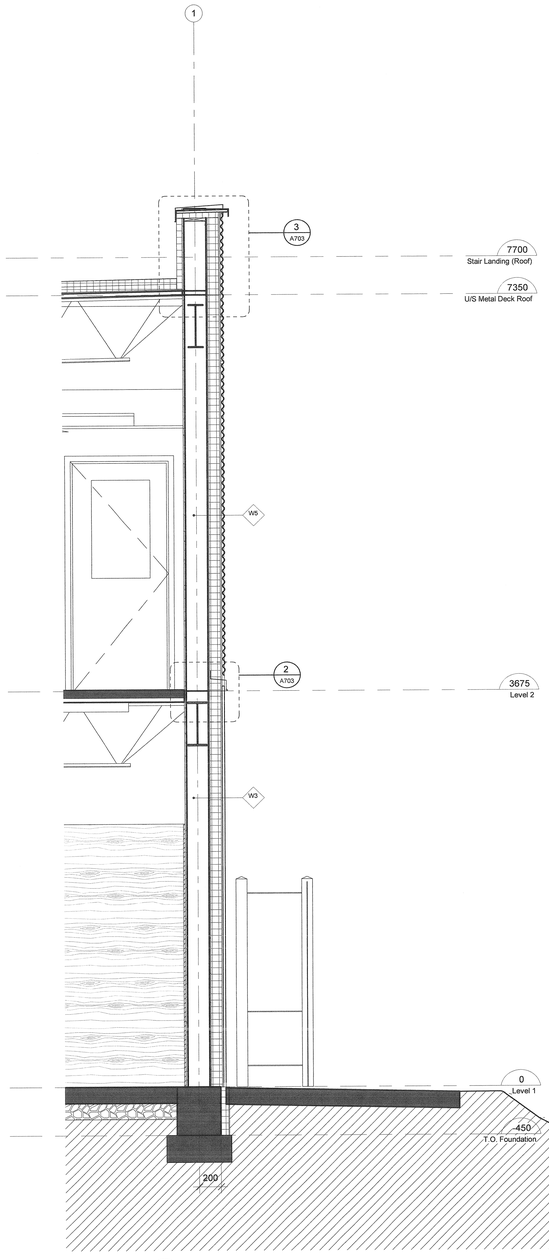
Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	A503	0

PWGSC – AO – 1189X841

4/30/2018 9:38:21 AM



4 A601 Wall Section 04
1 : 20



3 A601 Wall Section 03
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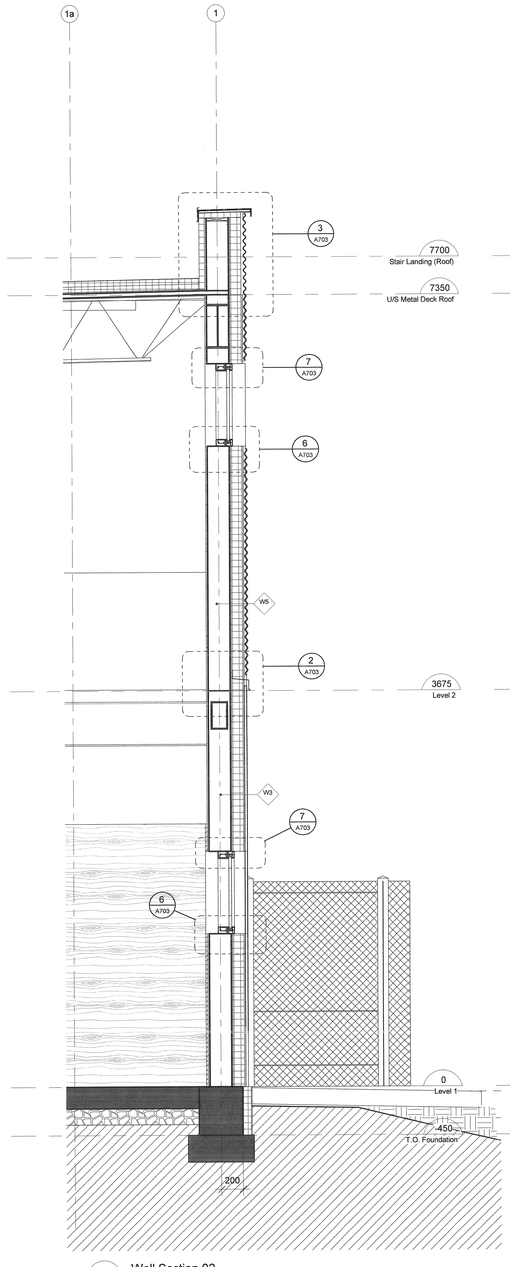

2 A601 Wall Section 02
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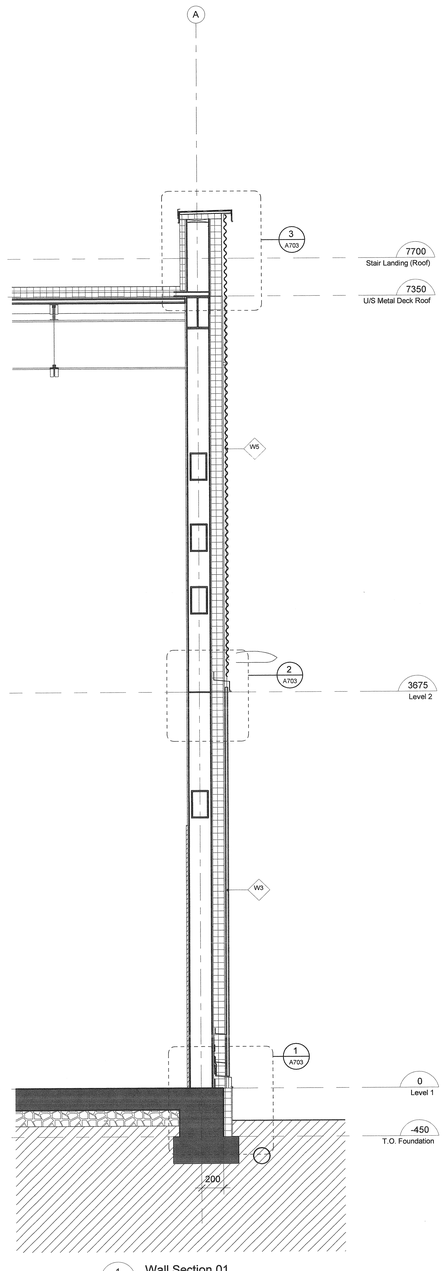

1 A601 Wall Section 01
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CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
ROGER GREEN

Drawn by/Dessiné par
VR

PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régional, Services d'architecture et de génie, TPSGC
PREETIPAUL PAUL

Drawing title/Titre du dessin

WALL SECTIONS

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	A601	0

PWGSC – A0 – 1189X841

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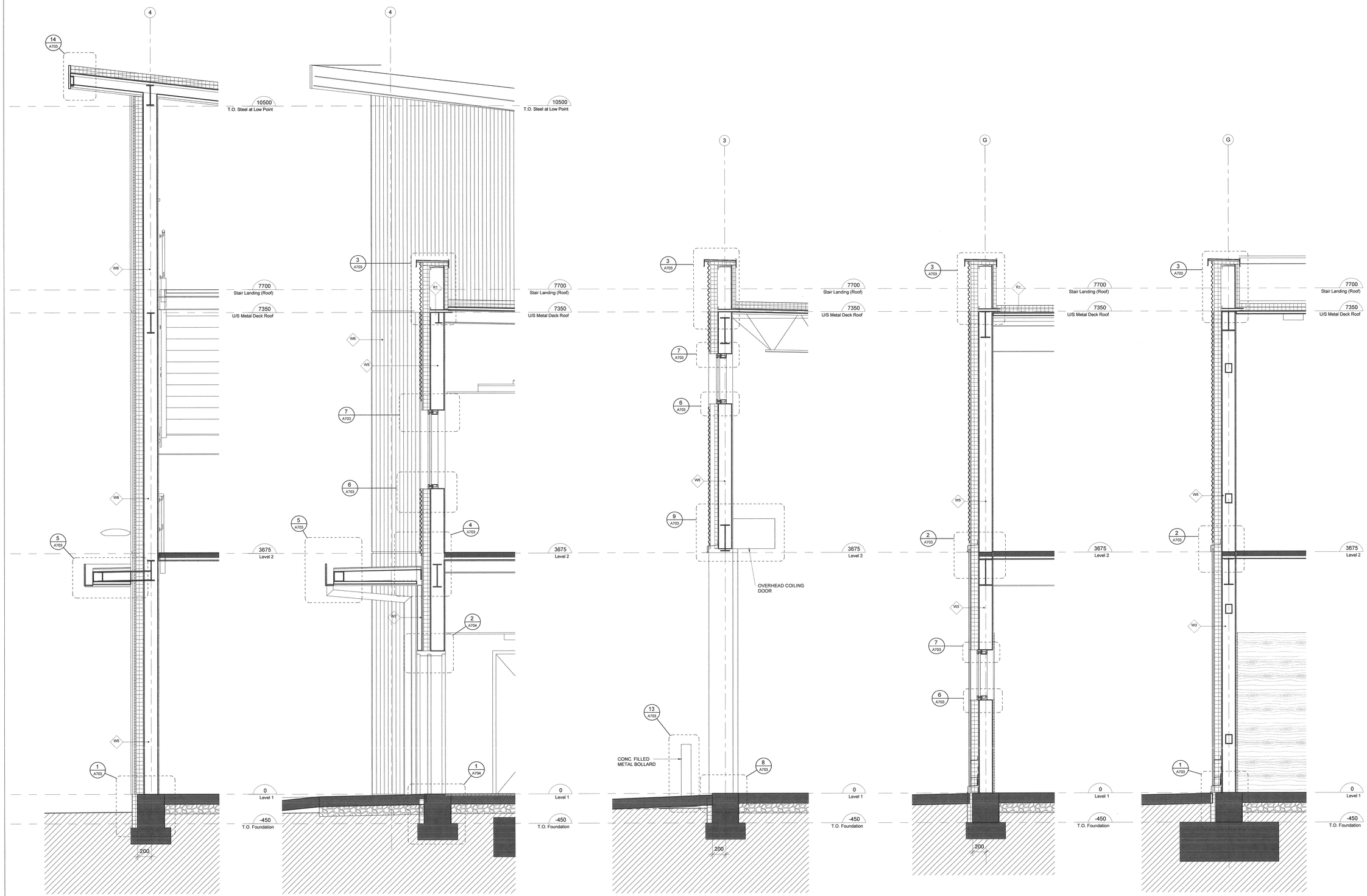

5 A602 Wall Section 09
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4 A602 Wall Section 08
1 : 20

3 A602 Wall Section 07
1 : 20

2 A602 Wall Section 06
1 : 20

1 A602 Wall Section 05
1 : 20

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CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

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Drawn by/Dessine par
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DARYL SINCLAR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PREETIPAUL PAUL

Drawing title/Titre du dessin

WALL SECTIONS

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
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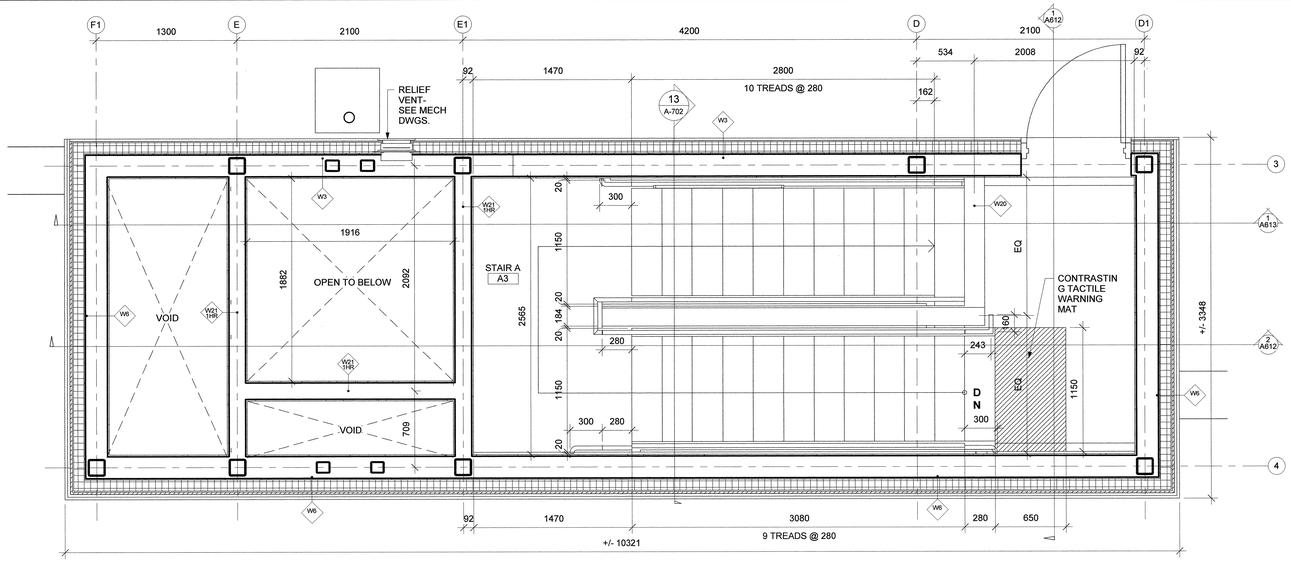

3 / A611 Partial Plan - Stair A Landing @ Roof

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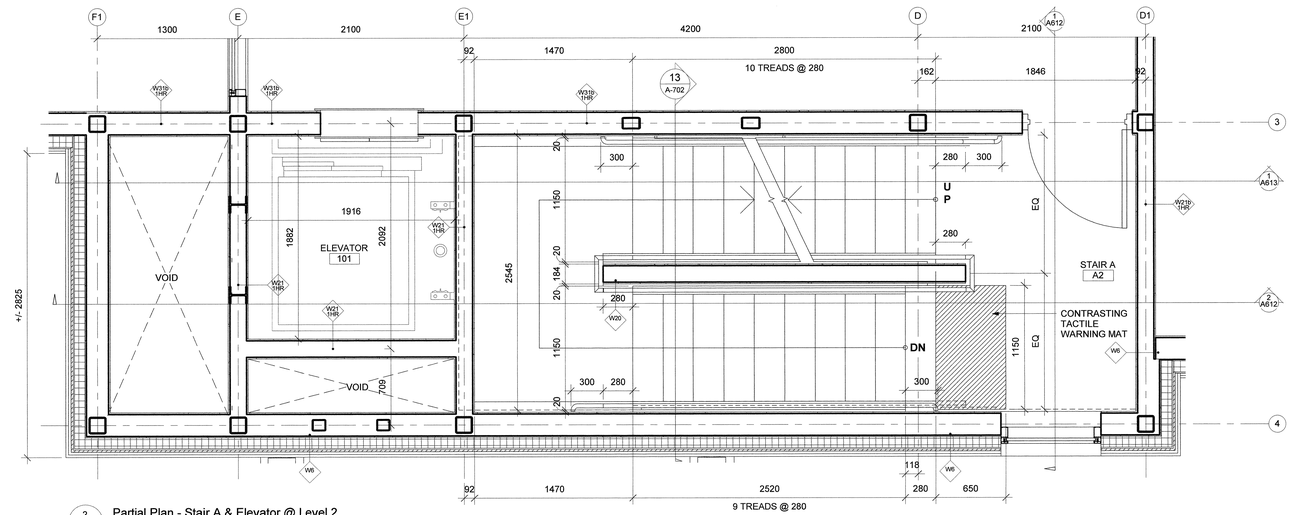
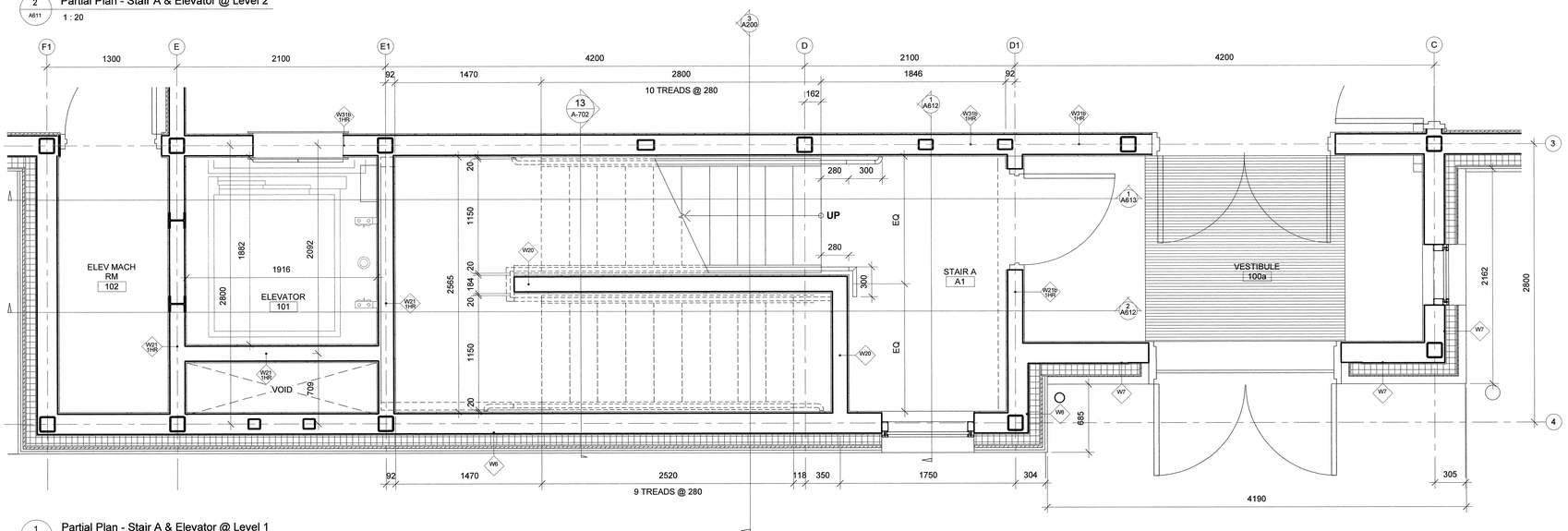


2 / A611 Partial Plan - Stair A & Elevator @ Level 2

1 : 20



1 / A611 Partial Plan - Stair A & Elevator @ Level 1

1 : 20

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REGISTERED ARCHITECT
MELISSA KIM
PROVINCE OF BRITISH COLUMBIA

Revision/ Revision	Description/Description	Date/Date
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Project title/Titre du projet

6000 William Head Road, Metchosin, BC

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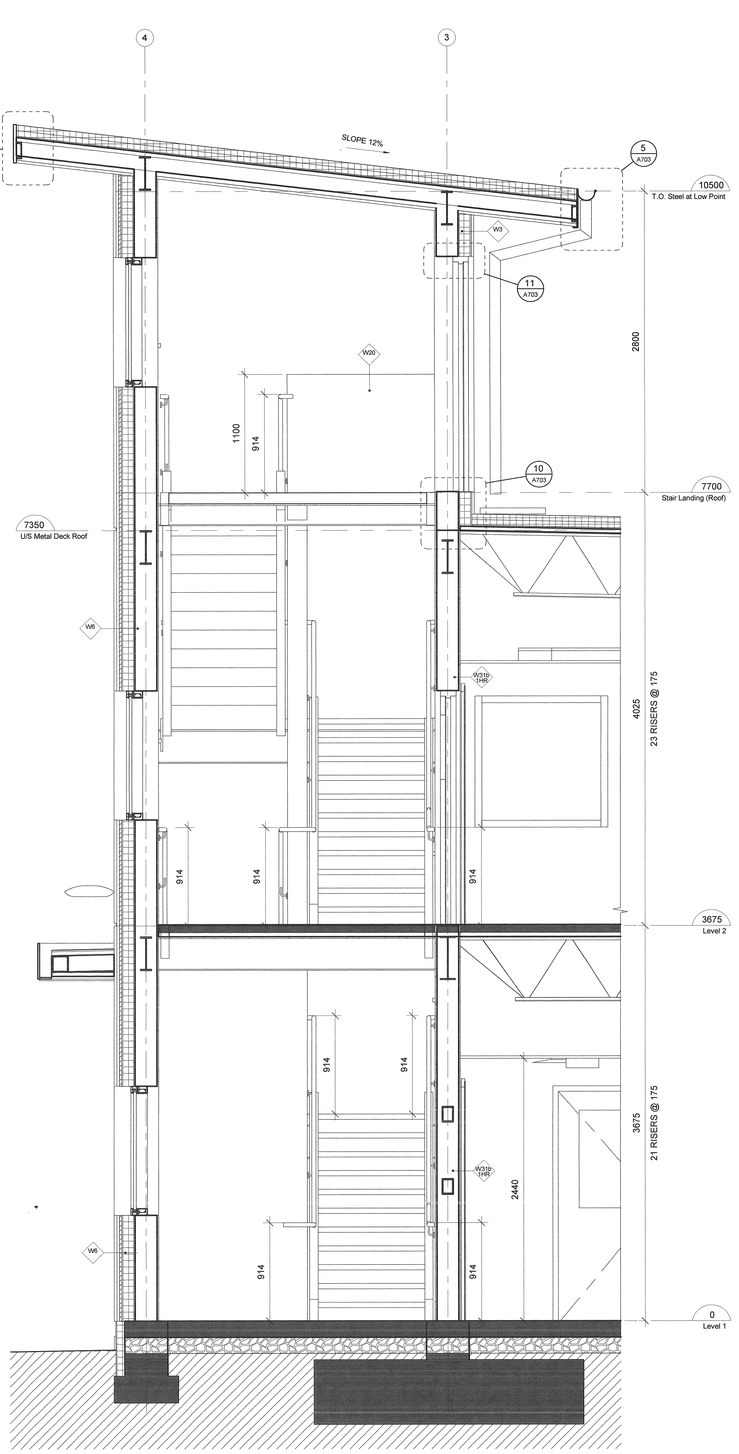
PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PREETIPAUL PAUL

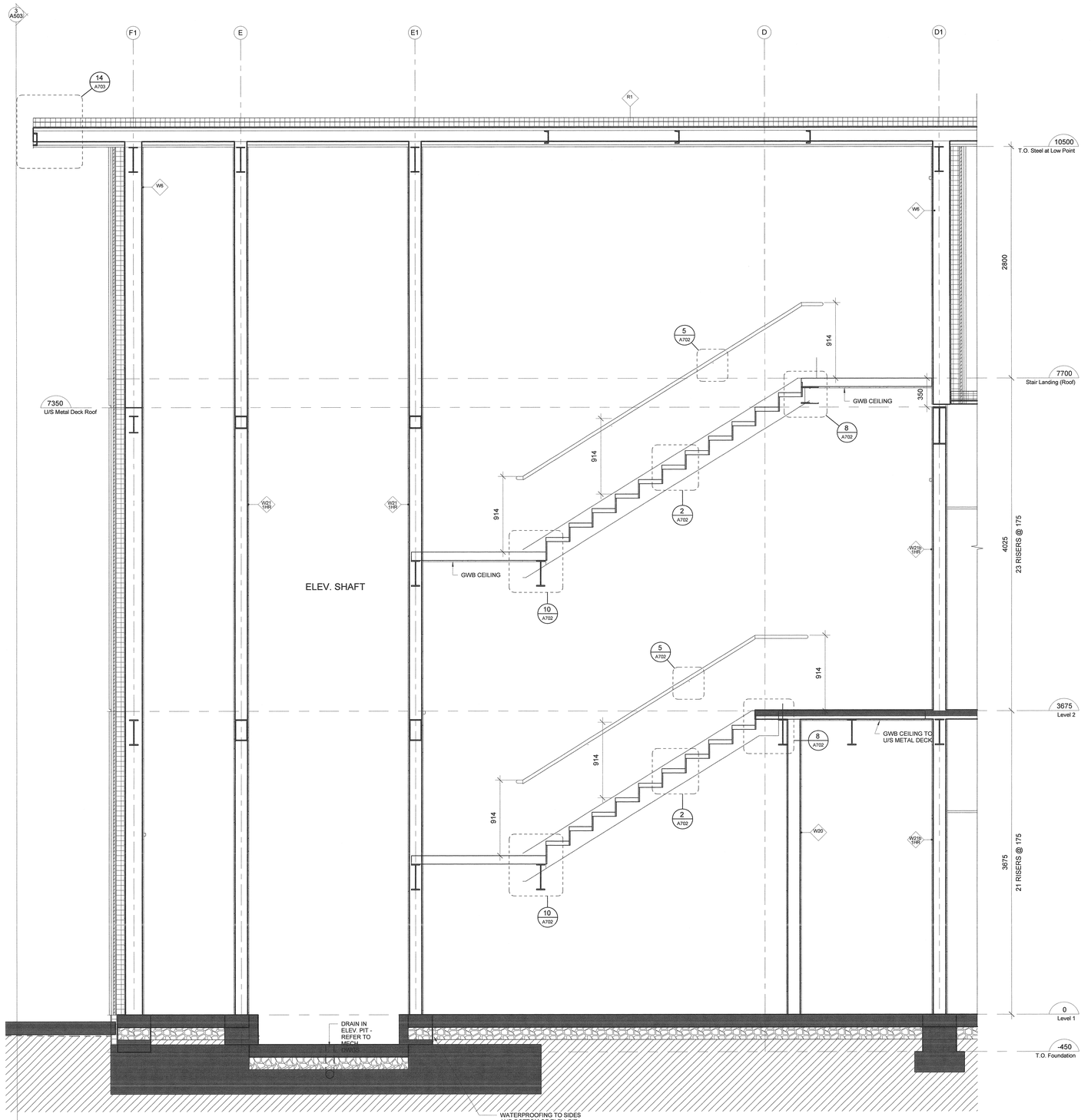
Drawing title/Titre du dessin

PARTIAL PLANS - ELEVATOR AND STAIR A

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	A611	0



1 A612 Stair Section - Stair A
1 : 20



2 A612 Stair Section - Stair A
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BRITISH COLUMBIA

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Project title/Titre du projet

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WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

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PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PREETIPAUL PAUL

Drawing title/Titre du dessin

SECTIONS - ELEVATOR AND STAIR A

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	A612	0

PWGSC – A0 – 1189X841

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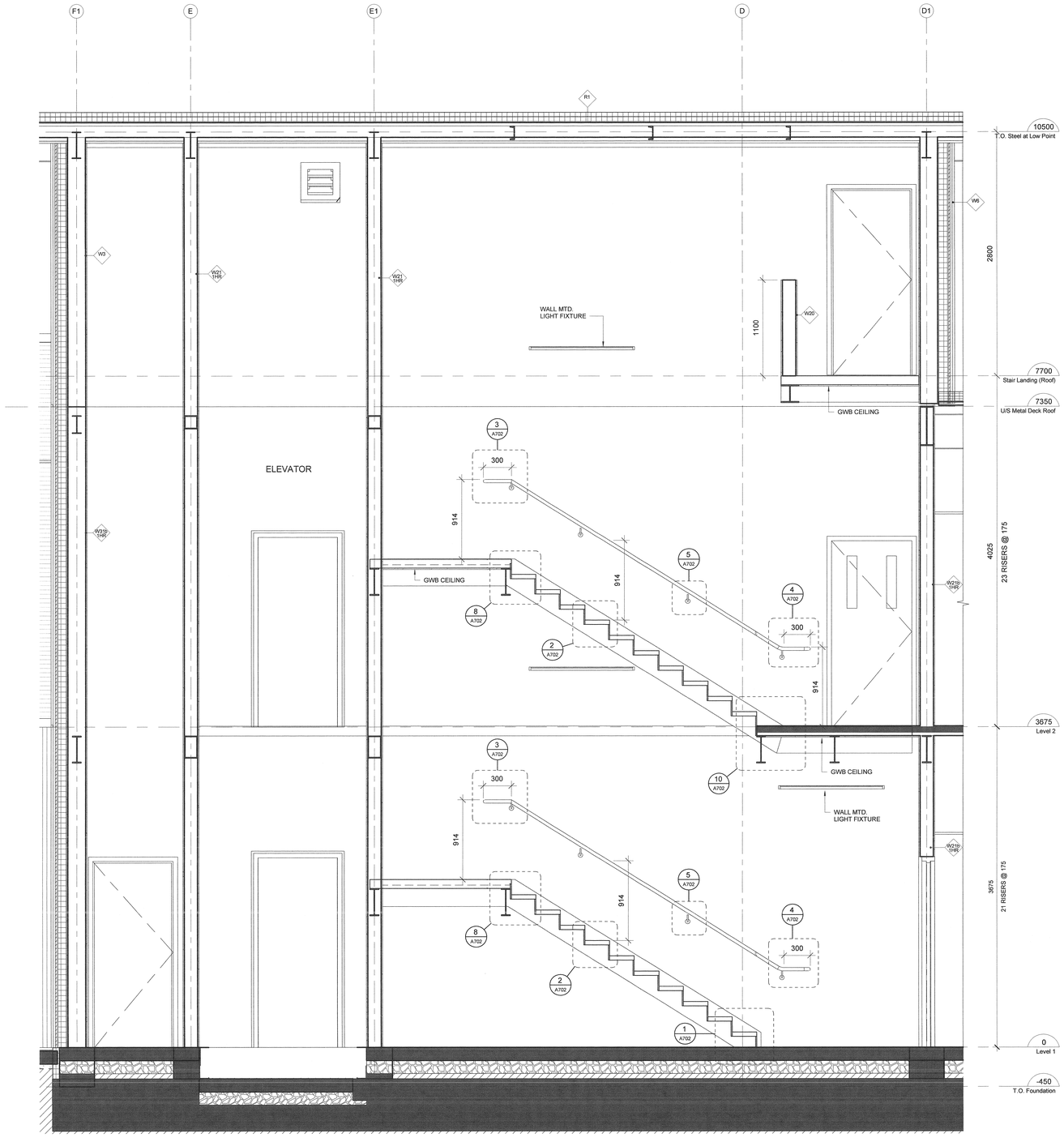

1 Stair Section A
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Pacific Region
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BRITISH COLUMBIA

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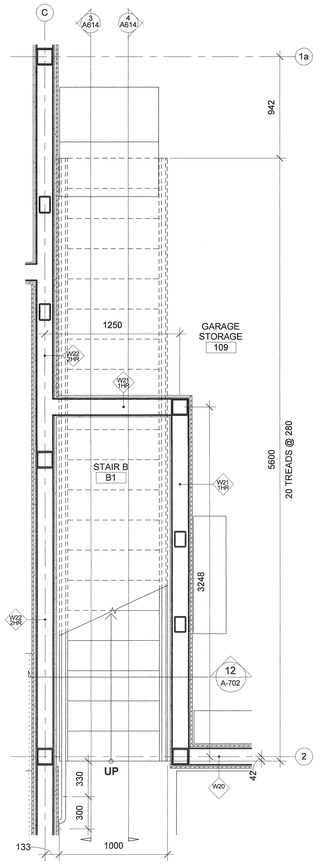
PREETIPAUL PAUL

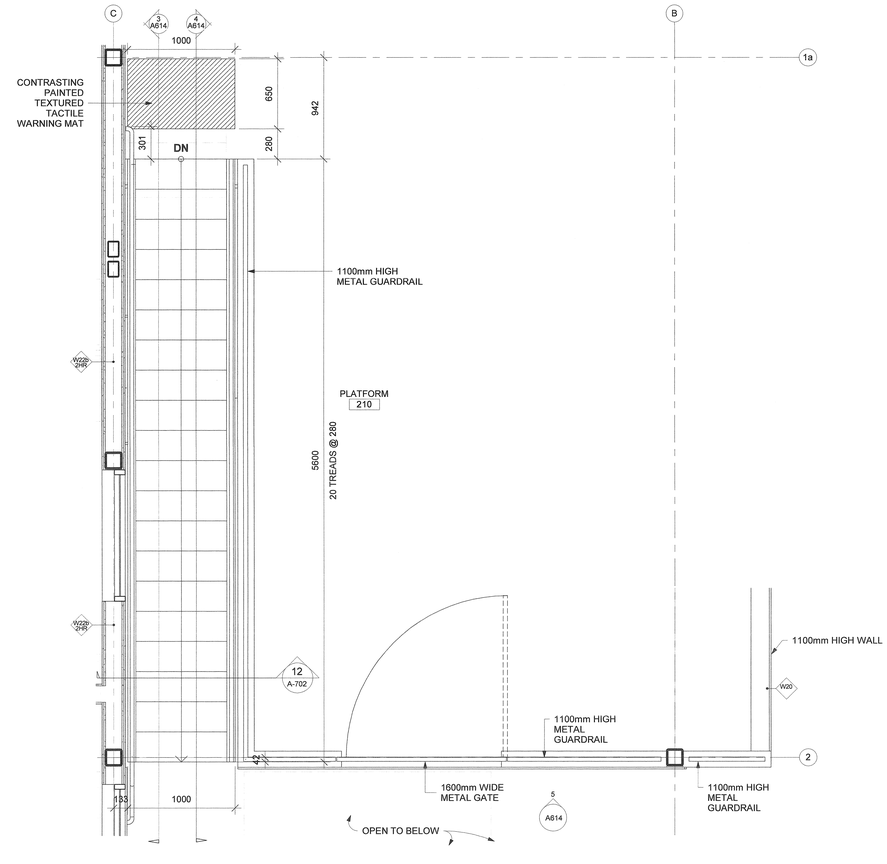
Drawing title/Titre du dessin

SECTIONS - ELEVATOR AND STAIR A

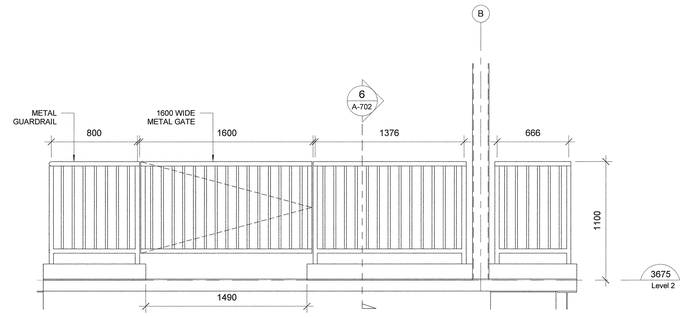
Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	A613	0



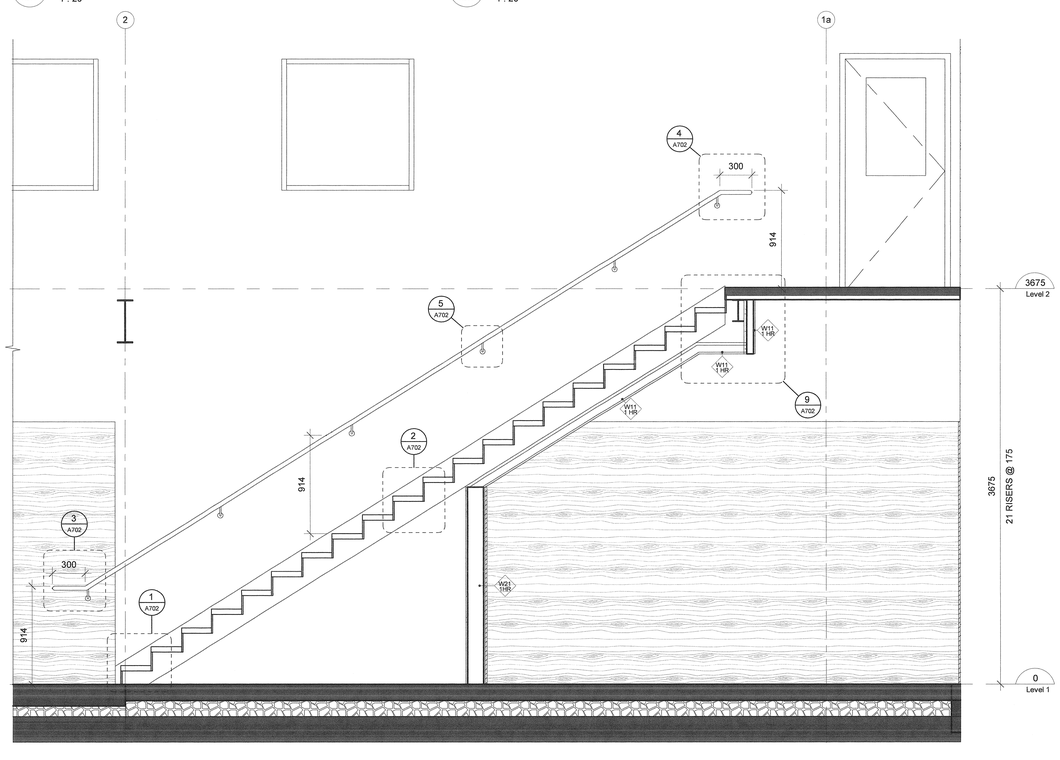
1 A614 Partial Plan - Stair B @ Level 1
1 : 20



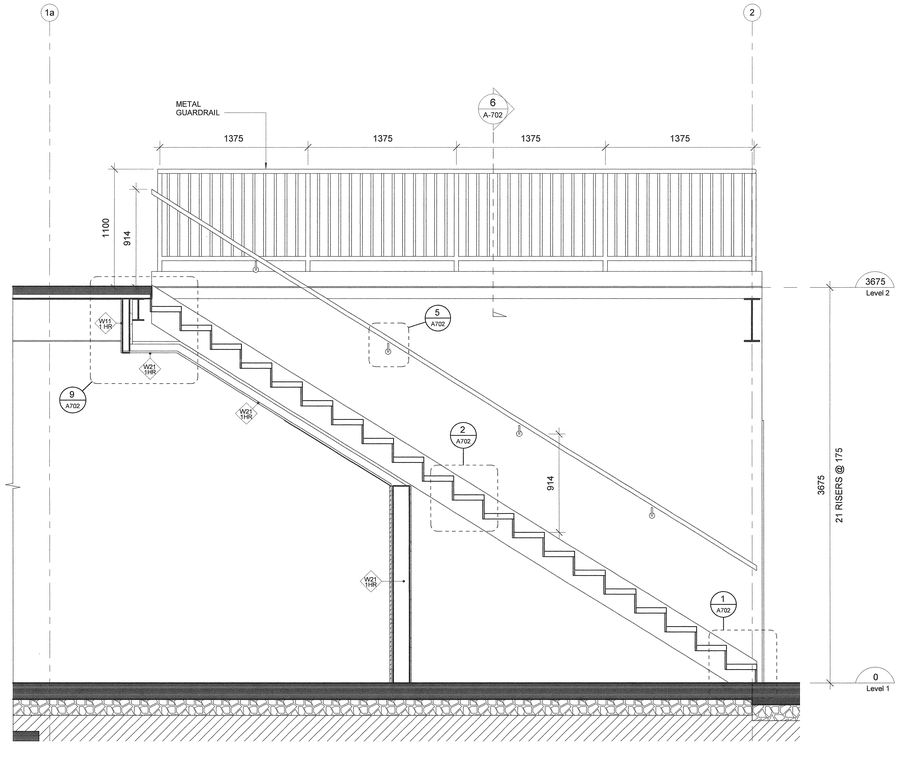
2 A614 Partial Plan - Stair B @ Level 2
1 : 20



5 A614 Int. Elev. - Guardrail
1 : 20



3 A614 Stair Section - Stair B
1 : 20



4 A614 Stair Section & Int. Elev. - Stair B & Guardrail
1 : 20

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REGISTERED ARCHITECT PROVINCE OF BRITISH COLUMBIA

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Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

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ROGER GREEN

Drawn by/Dessine par
KL

PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC
PREETIPAUL PAUL

Drawing title/Titre du dessin

PARTIAL PLANS & SECTIONS - STAIR B

Project No./No. du projet	Sheet/ Feuille	Revision no./ Lo Révision no.
R.069377.001	A614	0

PWGSC – AO – 1189X841

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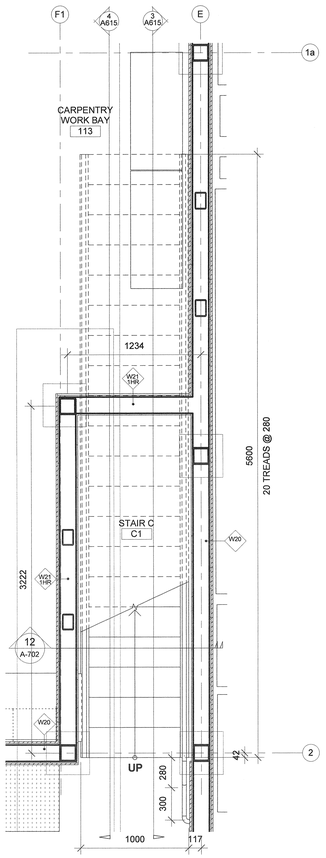
4/30/2018 9:38:32 AM



1 A615 Partial Plan - Stair C @ Level 1
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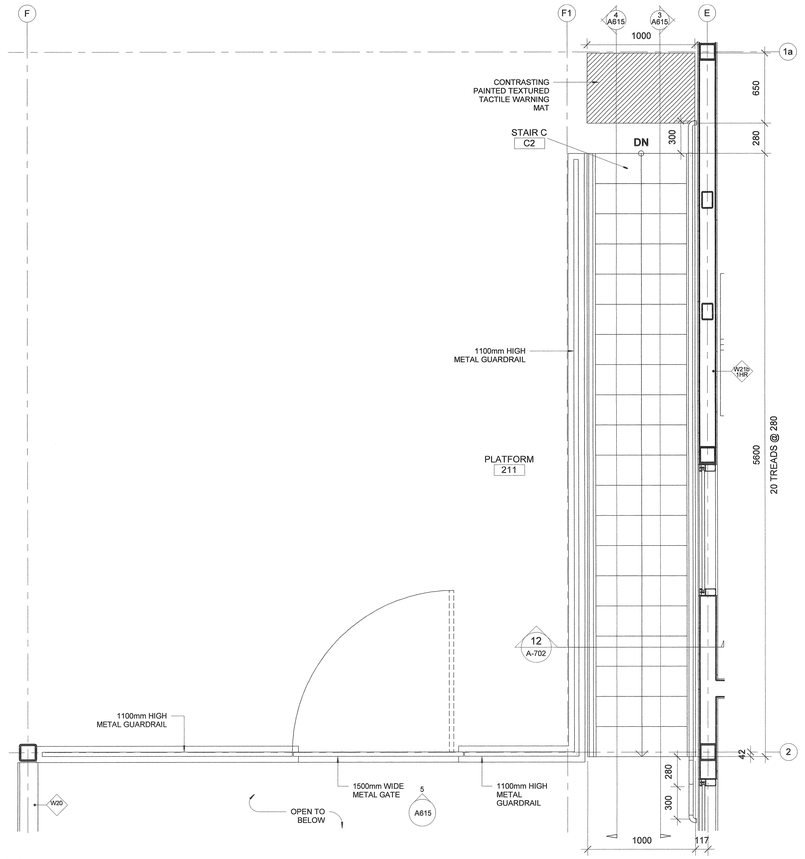

2 A615 Partial Plan - Stair C @ Level 2
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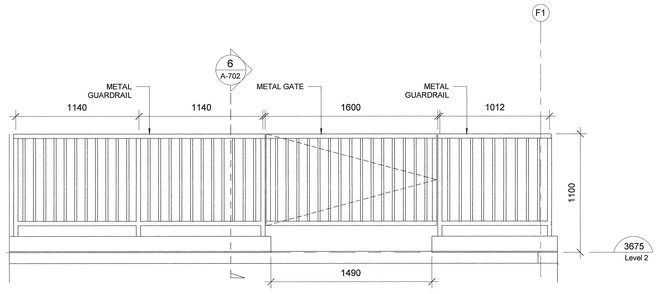
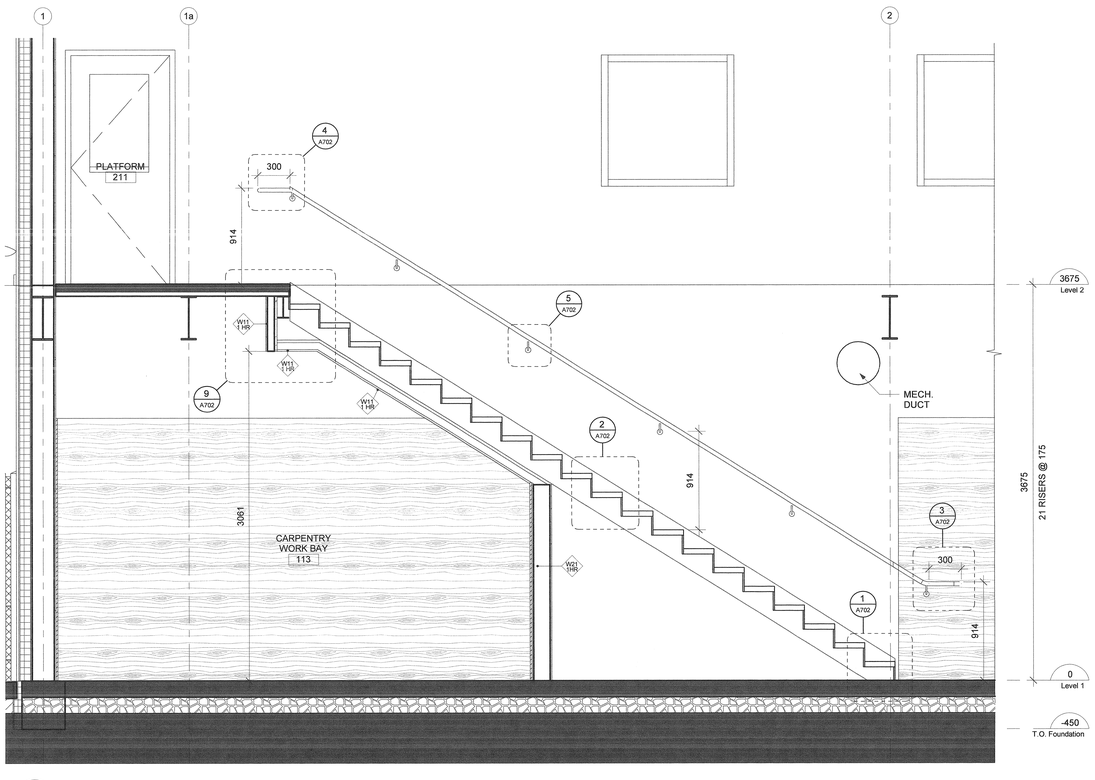


5 A615 Int. Elev. - Guardrail
1 : 20



3 A615 Stair Section - Stair C
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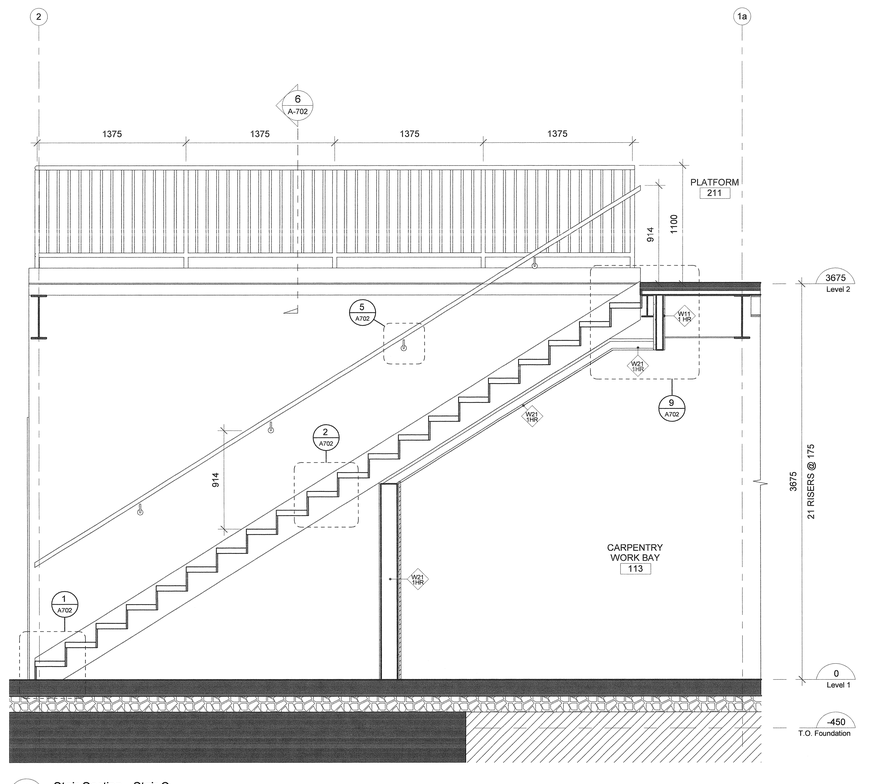

4 A615 Stair Section - Stair C
1 : 20

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Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
ROGER GREEN

Drawn by/Dessiné par
KL

PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PREETIPAUL PAUL

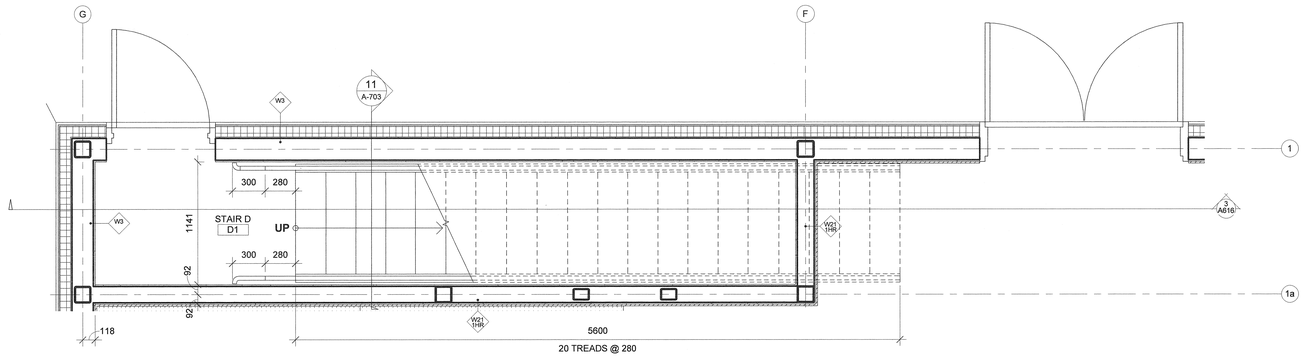
Drawing title/Titre du dessin

PARTIAL PLANS & SECTIONS - STAIR C

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	A615	0

PWGSC – AO – 1189X841

4/30/2018 9:38:34 AM



1 A616 Partial Plan - Stair D @ Level 1
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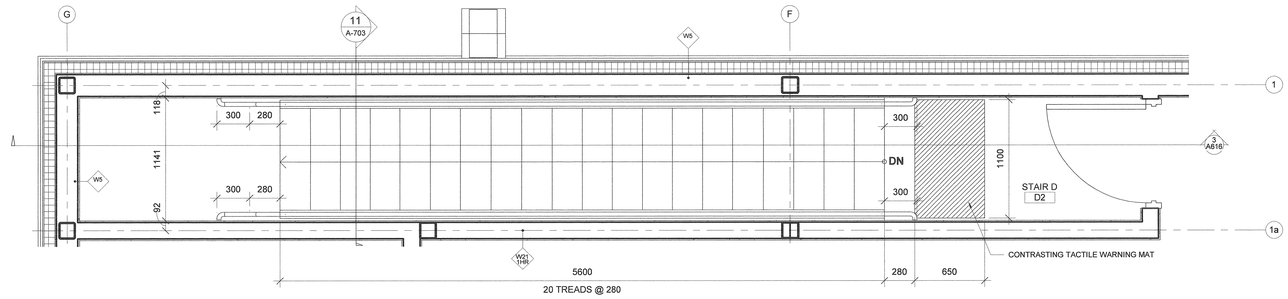

2 A616 Partial Plan - Stair D @ Level 2
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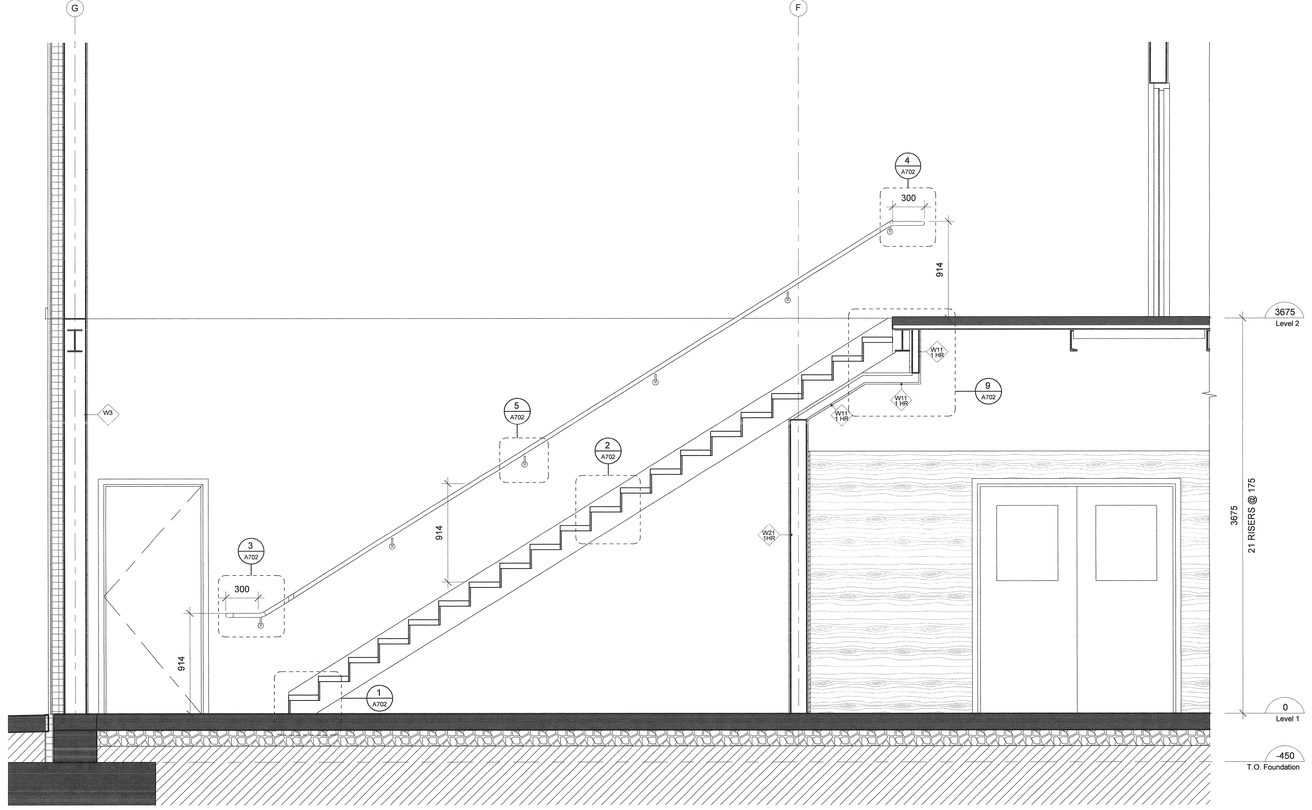

3 A616 Stair Section - Stair D
1 : 20

Public Works and Government Services Canada
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REAL PROPERTY SERVICES
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REGISTERED ARCHITECT
PROVINCE OF BRITISH COLUMBIA

Revision/ Revision	Description/Description	Date/Date
0	ISSUE FOR TENDER	2018-05-02

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PREETIPAUL PAUL

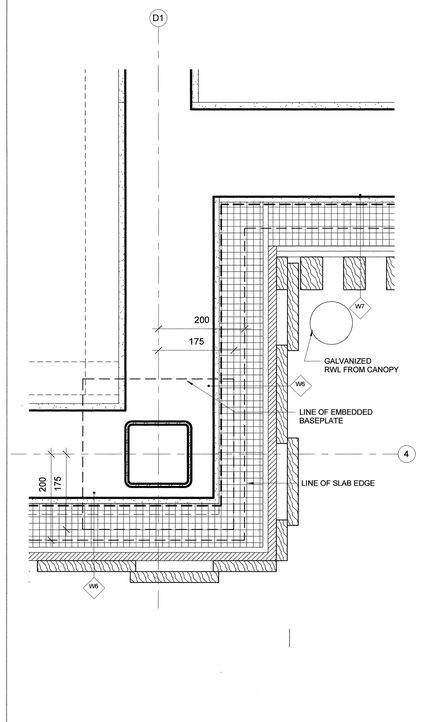
Drawing title/Titre du dessin

PARTIAL PLANS & SECTIONS - STAIR D

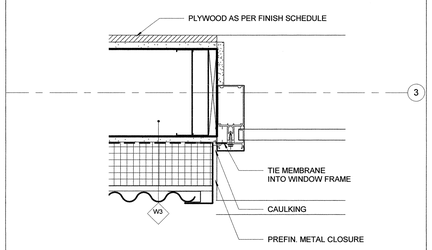
Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	A616	0

PWGSC – AO – 1189X841

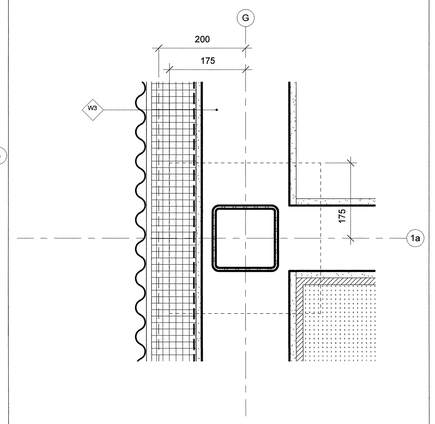
4/30/2018 9:38:35 AM



9 A701 Plan Detail - Stair A & Elevator Corner (typ)
1 : 5



10 A701 Plan Detail Window Jamb
1 : 5



7 A701 Plan Detail - Grid G & 1a
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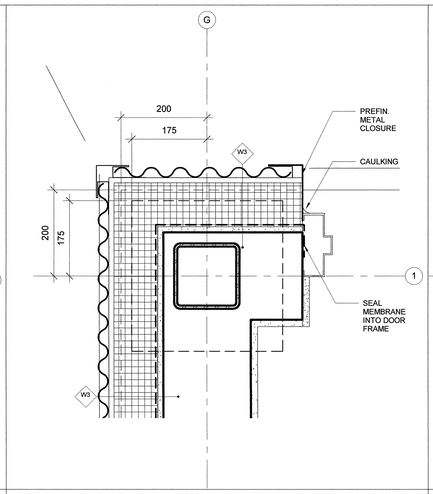
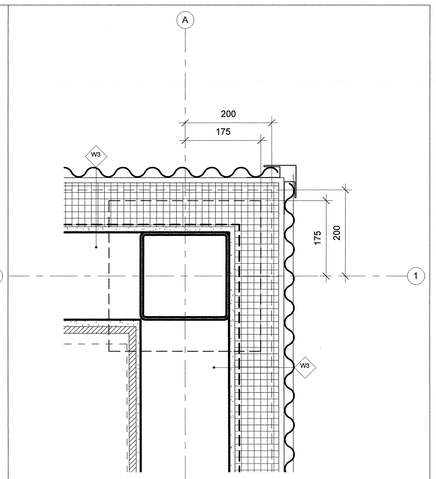
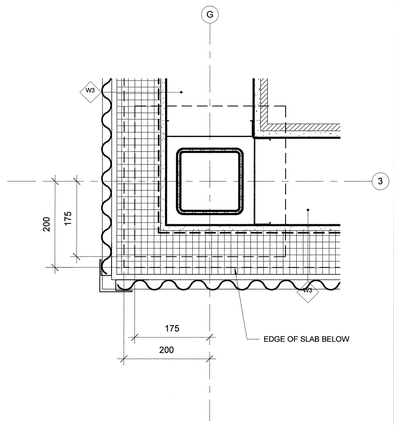


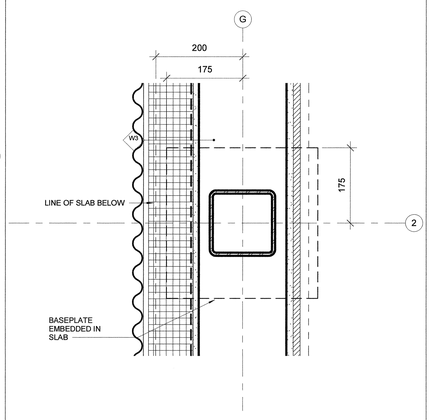
8 A701 Plan Detail - Grid G & 1
1 : 5



3 A701 Plan Detail - Grid A & 1
1 : 5



5 A701 Plan Detail - Grid G & 3
1 : 5



6 A701 Plan Detail - Grid G & 2
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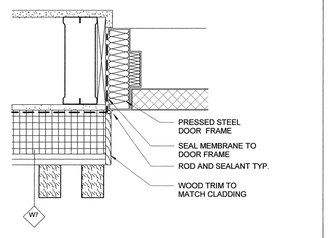
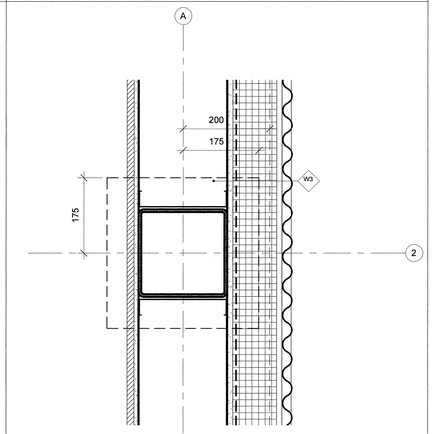
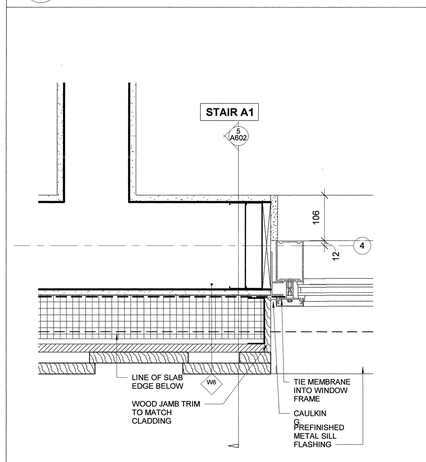


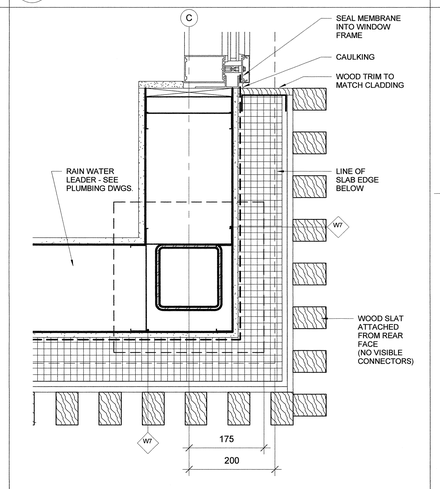
12 A701 Entry Door Jamb
1 : 5



2 A701 Plan Detail - Grid A & 2
1 : 5



13 A701 Plan Detail at Stair A1
1 : 5



11 A701 Plan Detail
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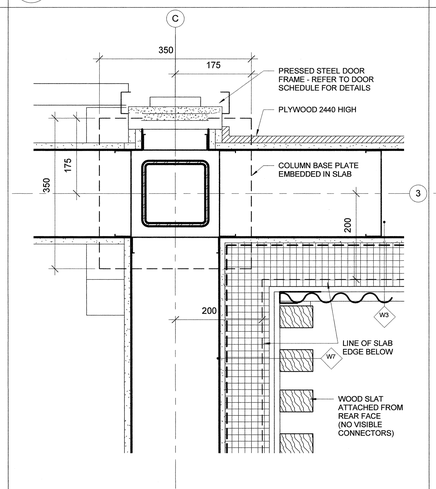
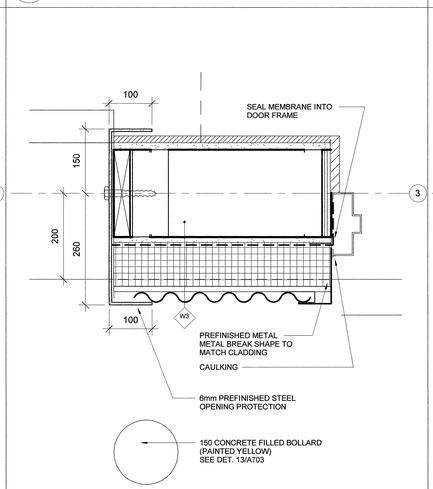


4 A701 Plan Detail at Grid 3 & C
1 : 5



14 A701 Plan Detail at Overhead Door
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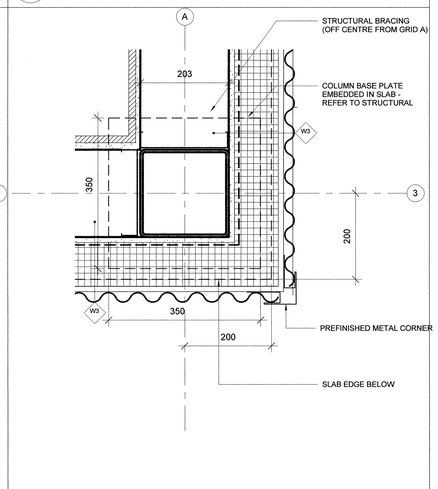

1 A701 Plan Detail - Grid A & 3
1 : 5

Public Works and Government Services Canada
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REGISTERED ARCHITECT
ROGER GREEN
BRITISH COLUMBIA

Revision/ Revision	Description/Description	Date/Date
0	ISSUE FOR TENDER	2018-05-02

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DARYL SINCLAR

PWGSC Regional Manager, Architectural and Engineering Services/ Gestionnaire régional, Services d'architecture et de génie, TPSGC
PREETIPAUL PAUL

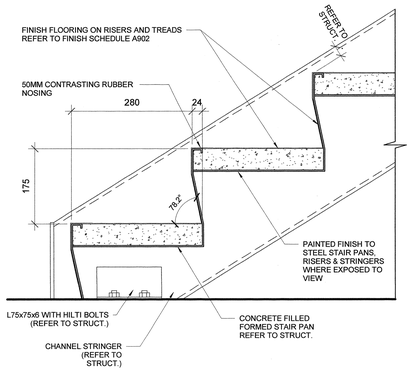
Drawing title/Titre du dessin

PLAN DETAILS

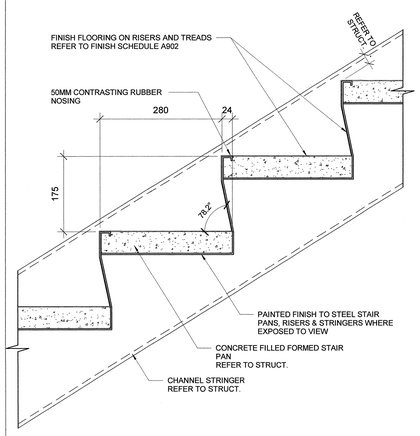
Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	A701	0

PWGSC – A0 – 1189X841

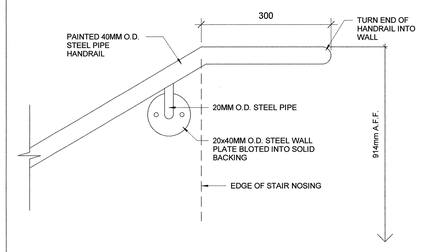
4/30/2018 9:38:39 AM



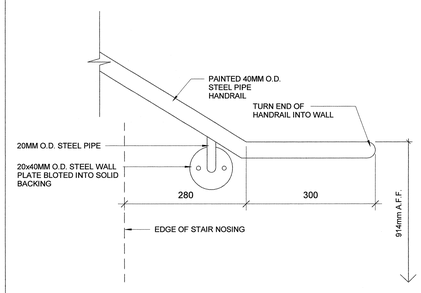
1 A702 Section Detail - Bottom of Stair
1 : 5



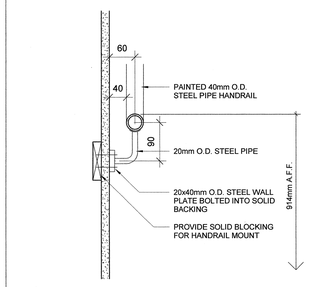
2 A702 Section Detail - Typical Stair Treads
1 : 5



3 A702 Top Handrail Extention Detail - Elevation
1 : 5



4 A702 Bottom Handrail Extention Detail - Elevation
1 : 5



5 A702 Section Detail - Typical Handrail @ Interior Stud Wall
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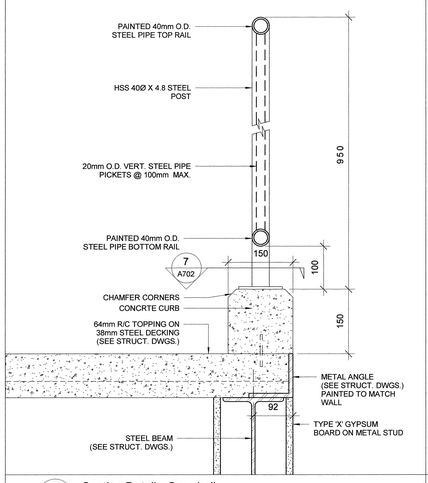
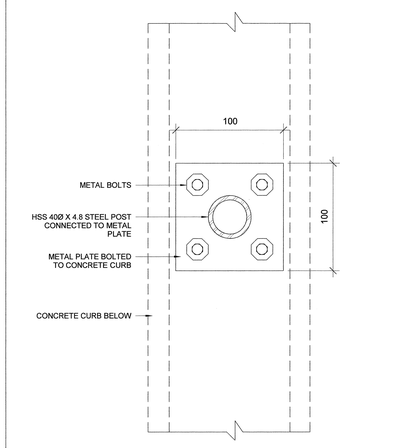
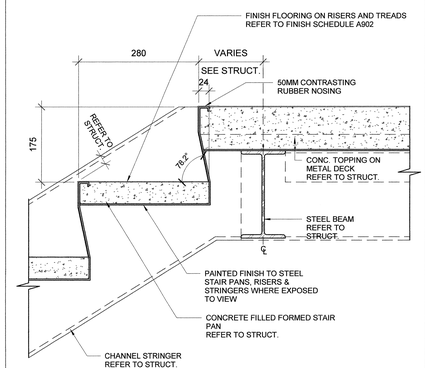


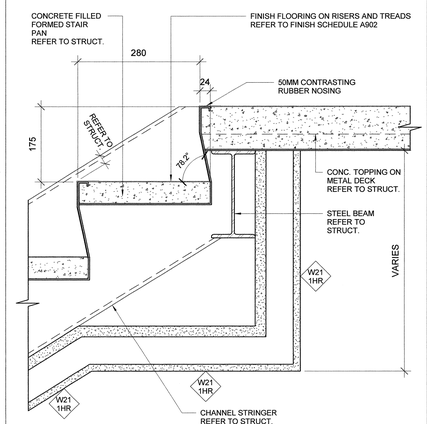
6 A702 Section Detail - Guardrail
1 : 5



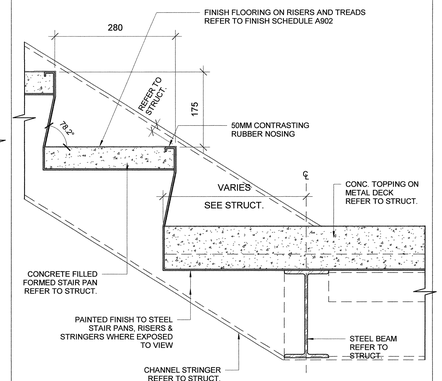
7 A702 Plan Detail - Guardrail
1 : 2



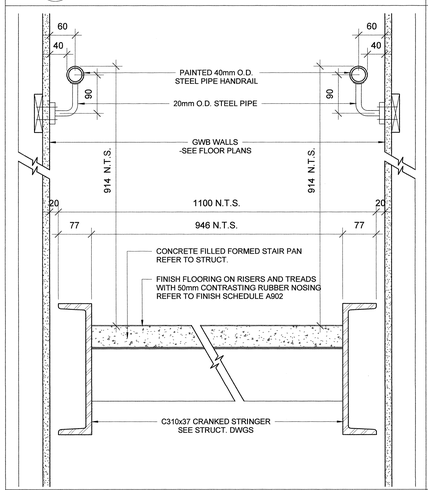
8 A702 Section Detail - Top of Landing
1 : 5



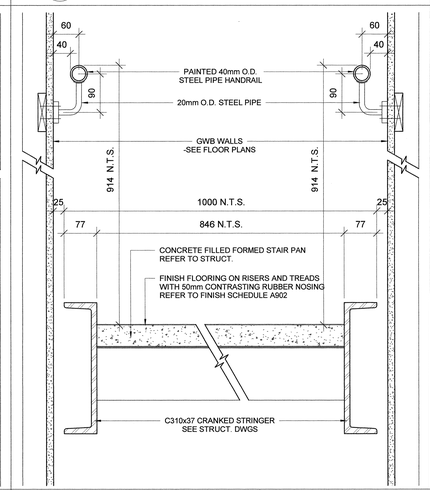
9 A702 Section Detail - Top of Stair
1 : 5



10 A702 Section Detail - Top of Landing
1 : 5



11 A702 Stair Stringer Section Detail
1 : 5



12 A702 Stair Stringer Section Detail
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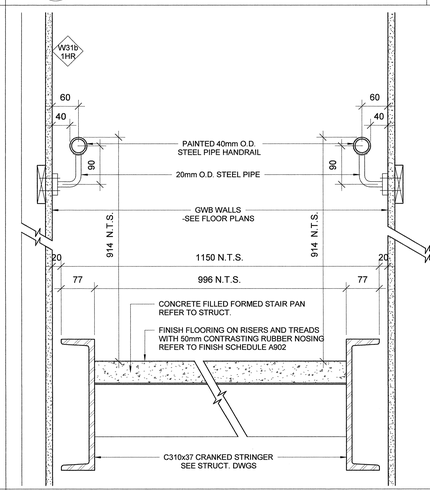

13 A702 Stair Stringer Section Detail
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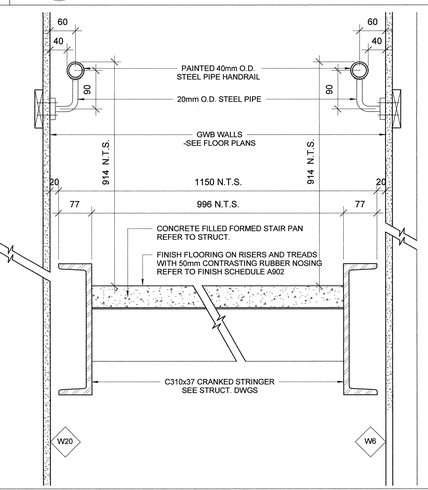

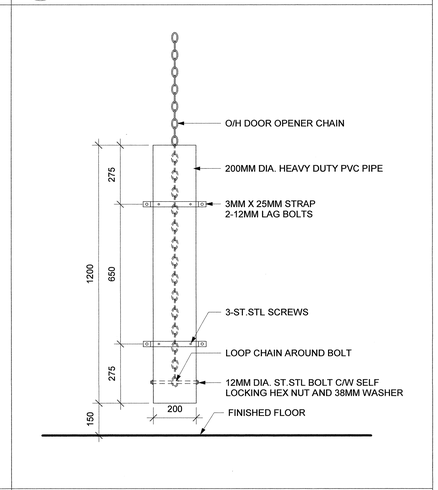

15 A702 O/H Door Chain Protection
1 : 10

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada
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Région de Pacifique

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REGISTERED ARCHITECT ROGER GREEN 31109 PROVINCE OF BRITISH COLUMBIA

Revision/ Revision	Description/Description	Date/Date
0	ISSUE FOR TENDER	2018-05-02

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PREETIPAUL PAUL

Drawing title/Titre du dessin

DETAILS

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	A702	0

PWGSC – AO – 1189X841

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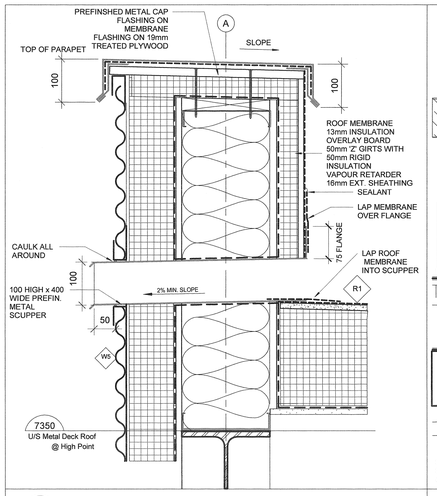

15 A703 **Scupper Detail**
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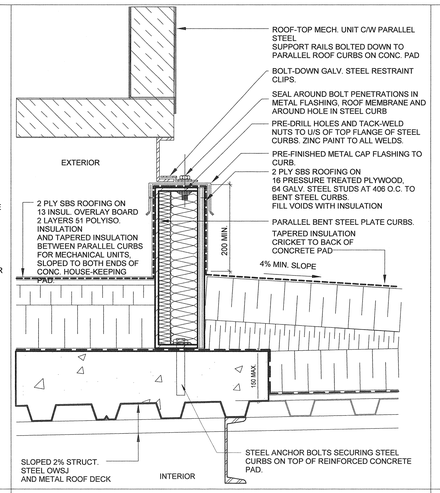

12 A703 **Mech Curb**
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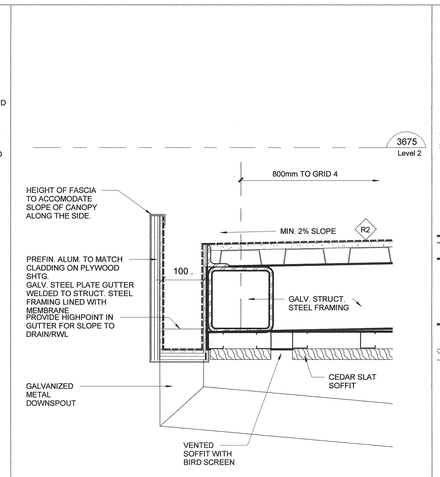
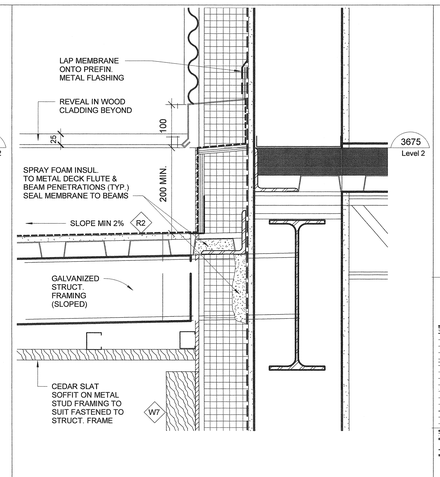
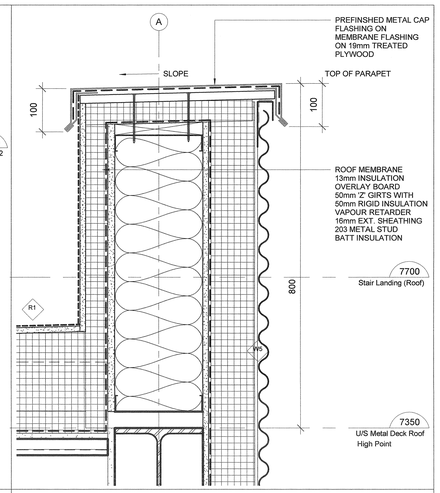


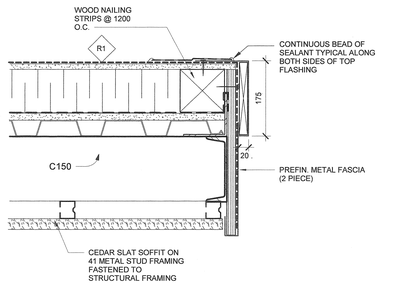
5 A703 **Canopy Gutter Detail**
1 : 5



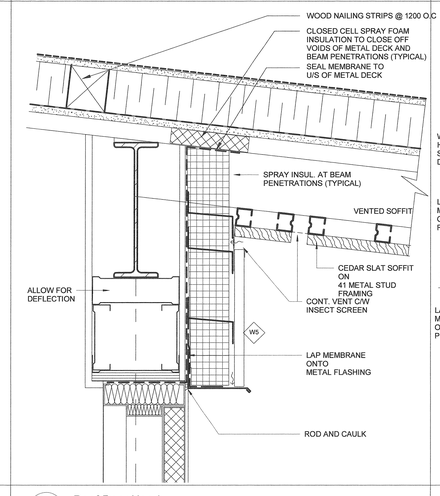
4 A703 **Canopy Detail**
1 : 5



3 A703 **Detail Section @ Parapet**
1 : 5



14 A703 **Fascia Detail**
1 : 5



11 A703 **Roof Door Head**
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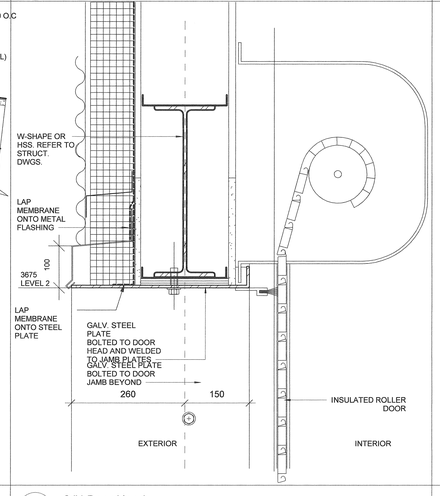
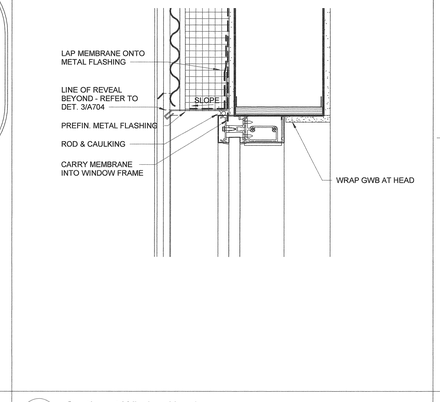
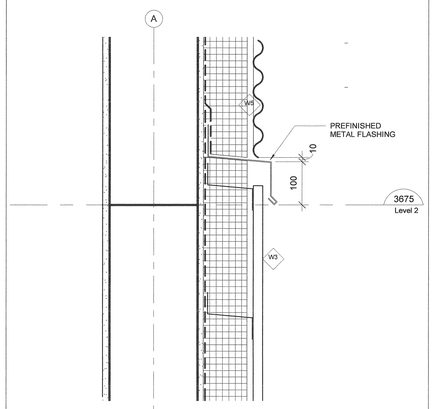


9 A703 **O/H Door Head**
1 : 5



7 A703 **Section at Window Head**
1 : 5



2 A703 **Detail Section @ L2 Wall**
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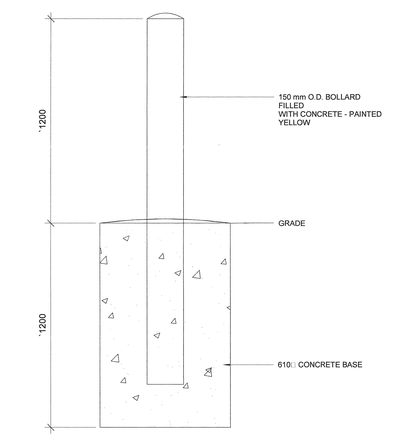
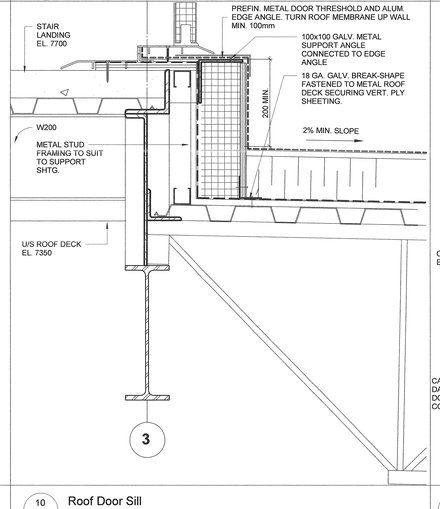
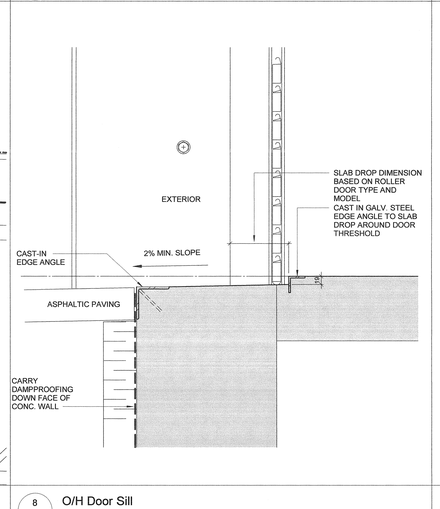


13 A703 **Bollard Detail**
1 : 10



10 A703 **Roof Door Sill**
1 : 5



8 A703 **O/H Door Sill**
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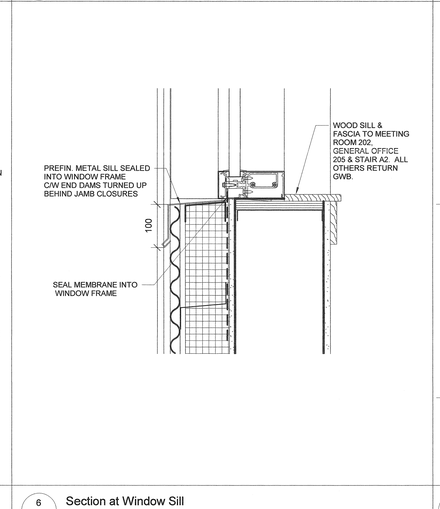
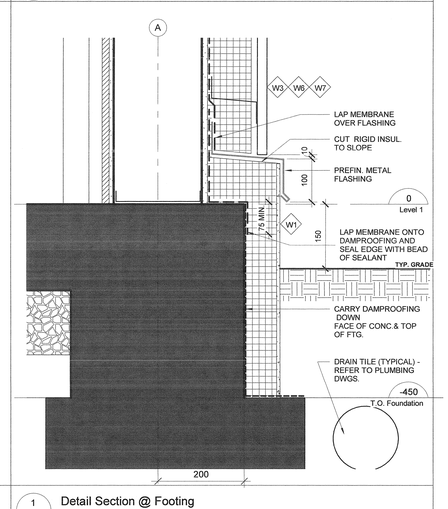


6 A703 **Section at Window Sill**
1 : 5



1 A703 **Detail Section @ Footing**
1 : 5

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

DGBK

REGISTERED ARCHITECT ROGER GREEN PROVINCE OF BRITISH COLUMBIA

Revision/ Revision	Description/Description	Date/Date
0	ISSUE FOR TENDER	2018-05-02

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
ROGER GREEN

Drawn by/Dessiné par
RG/VR

PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAR

PWGSC, Regional Manager, Architectural and Engineering Services/ Directeur régional, Services d'architectural et de génie, TPSGC
PREETIPAUL PAUL

Drawing title/Titre du dessin

SECTION DETAILS

Project No./No. du projet	Sheet/ Feuille	Revision no./ Le Révision no.
R.069377.001	A703	0

PWGSC – AO – 1189X841

4/30/2018 9:38:44 AM

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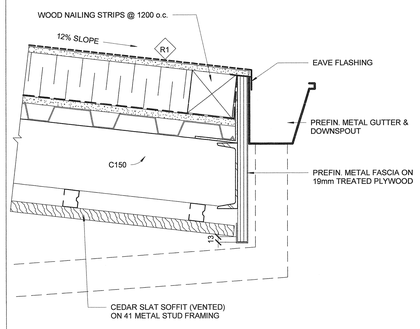
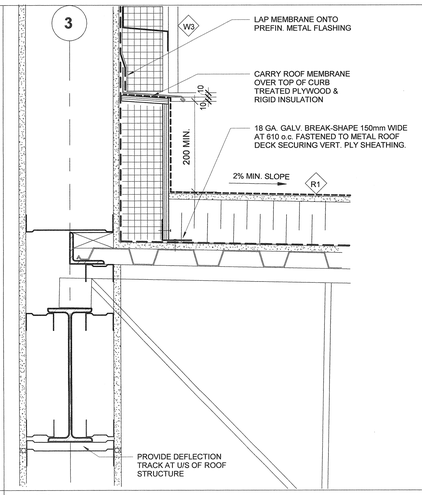
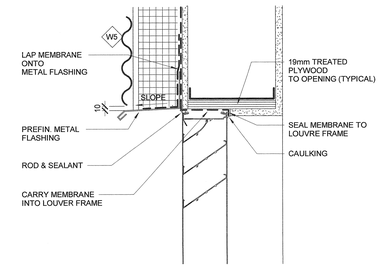


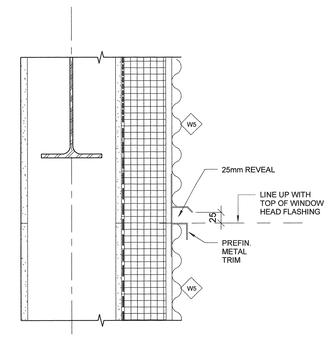
10 A704 Upper Roof gutter
1 : 5



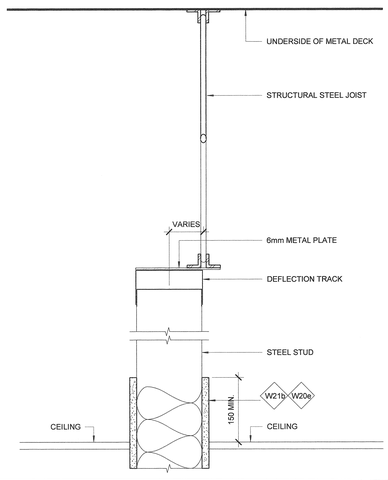
9 A704 Detail Section Roof to Wall
1 : 5



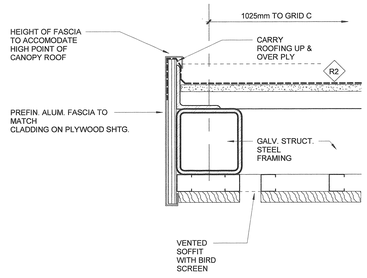
6 A704 Mech. Louvre Head
1 : 5



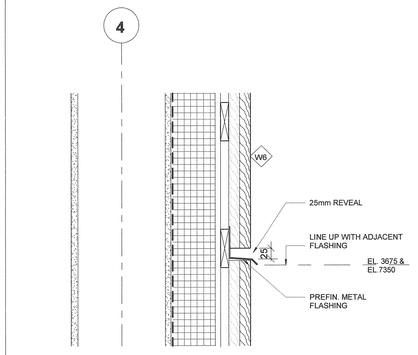
3 A704 Reveal in Metal Cladding
1 : 5



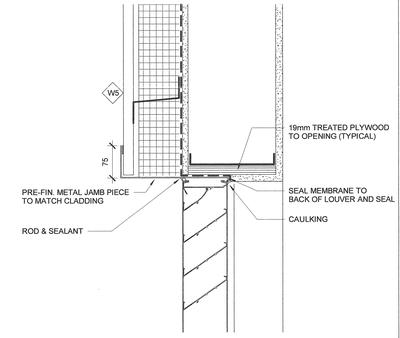
14 A704 Detail Section @ Typical Int. Wall @ OWSJ
1 : 5



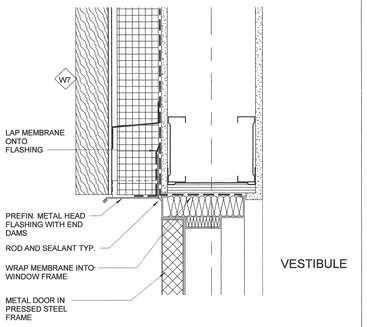
11 A704 Front Canopy Fascia
1 : 5



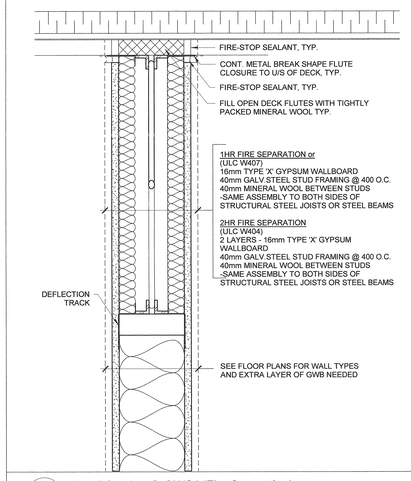
8 A704 Reveal in Wood Siding
1 : 5



5 A704 Mech. Louvre Jamb
1 : 5

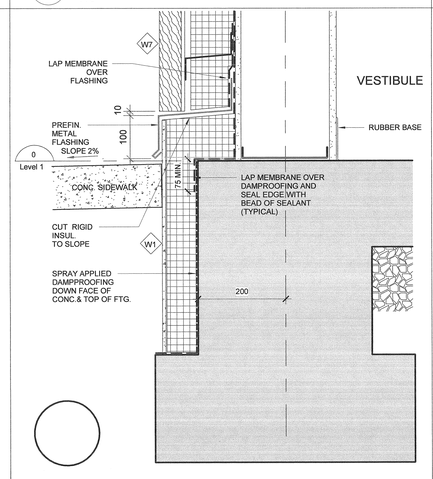


2 A704 Entry Door Head
1 : 5

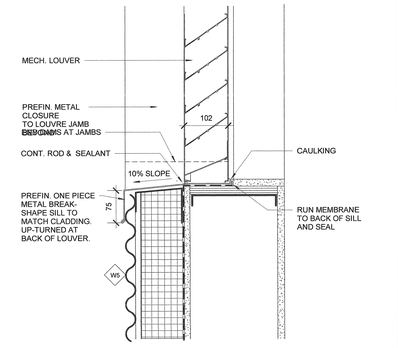


13 A704 Detail Section @ OWSJ (Fire Separation)
1 : 5

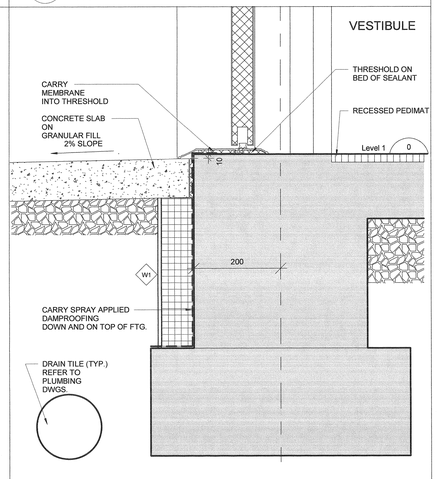
NOT USED



7 A704 Base Detail @ Wood Siding
1 : 5



4 A704 Mech. Louvre Sill
1 : 5



1 A704 Entry Door Sill
1 : 5

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada
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Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

DGBK

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0	ISSUE FOR TENDER	2018-05-02

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
ROGER GREEN

Drawn by/Dessiné par
RG/VR/KL

PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAIR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régional, Services d'architectural et de génie, TPSGC
PREETIPAUL PAUL

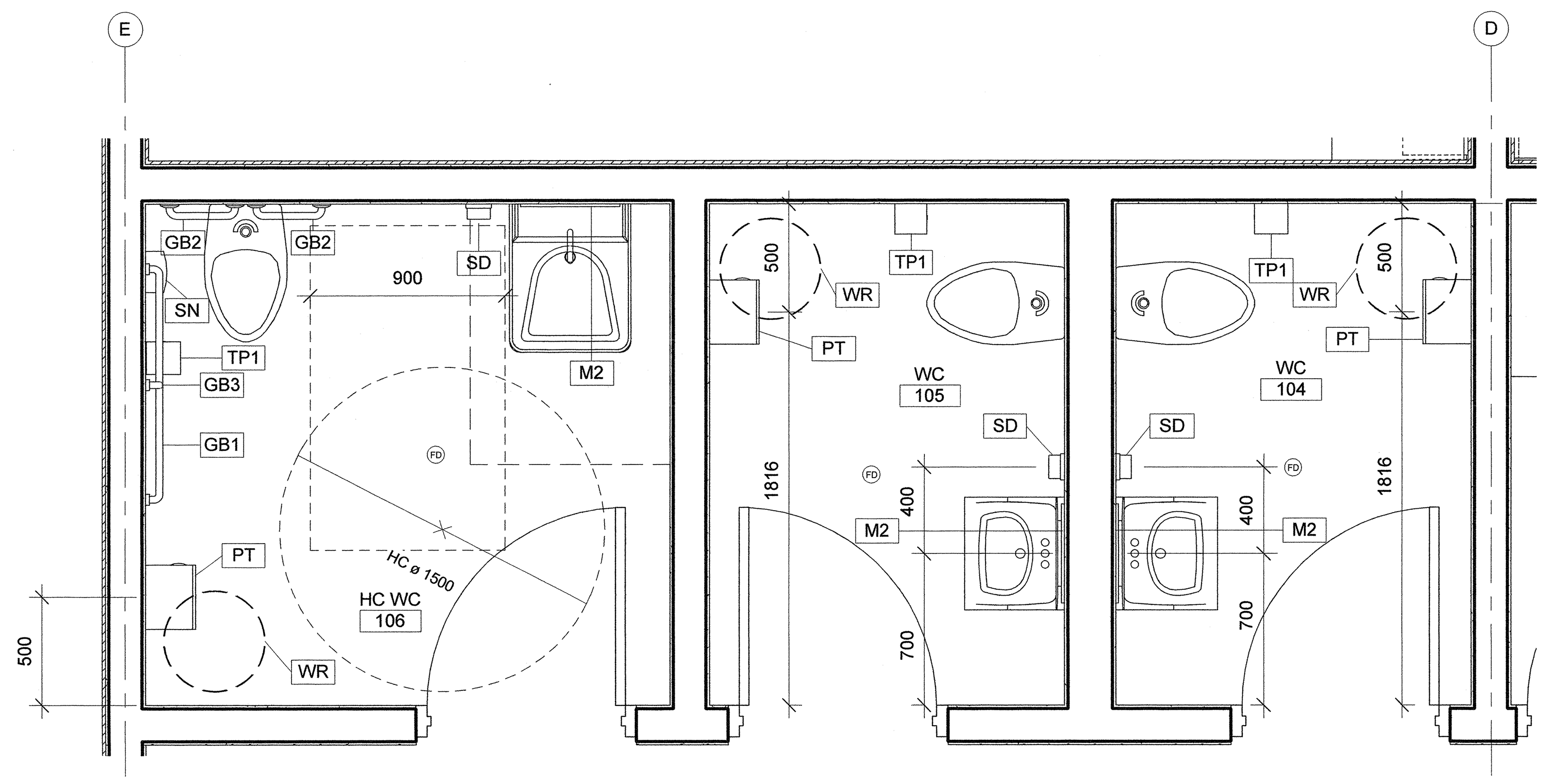
Drawing title/Titre du dessin

SECTION DETAILS

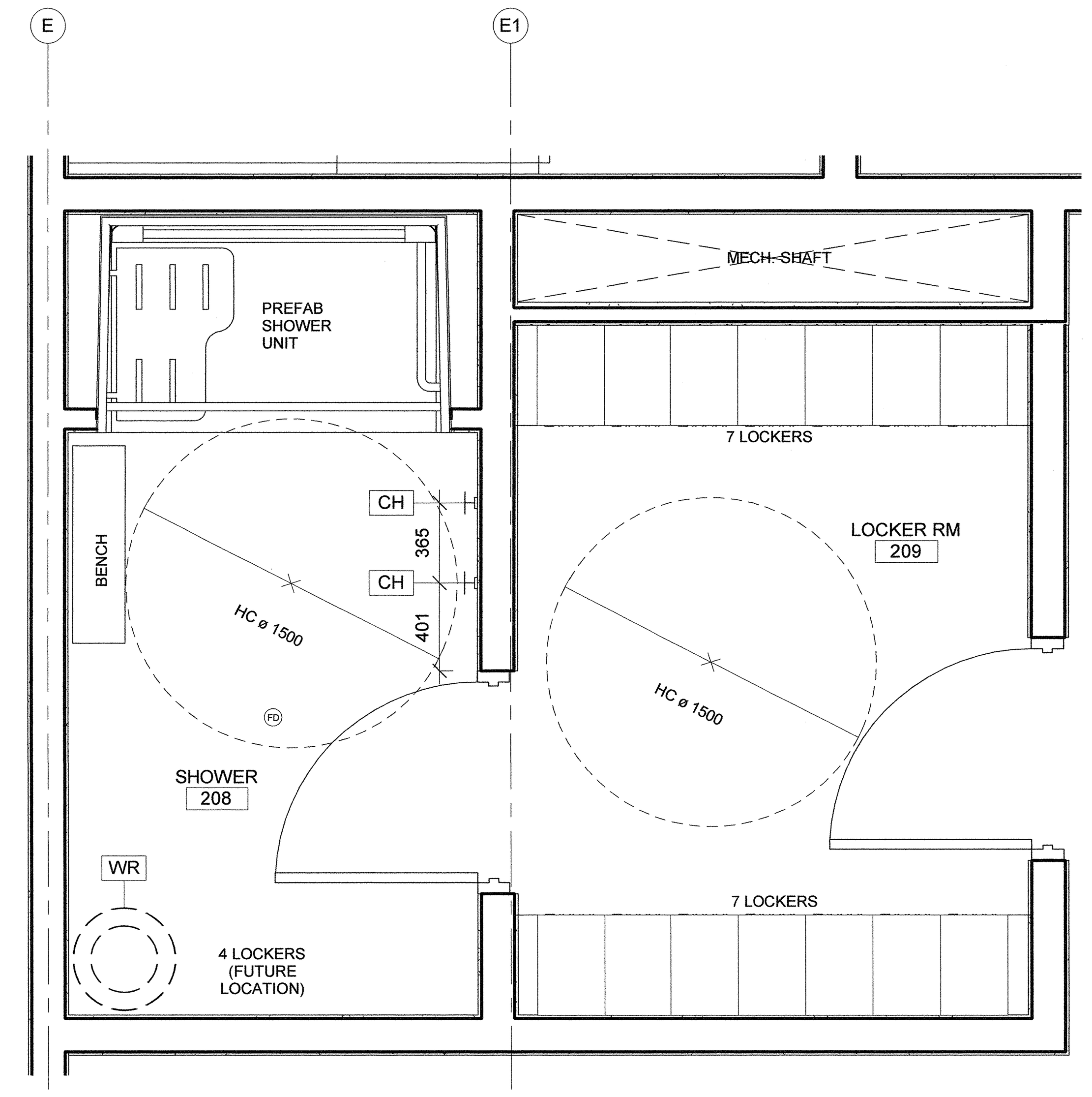
Project No./No. du projet	Sheet/ Feuille	Revision no./ Révision no.
R.069377.001	A704	0

PWGSC – A0 – 1189X841

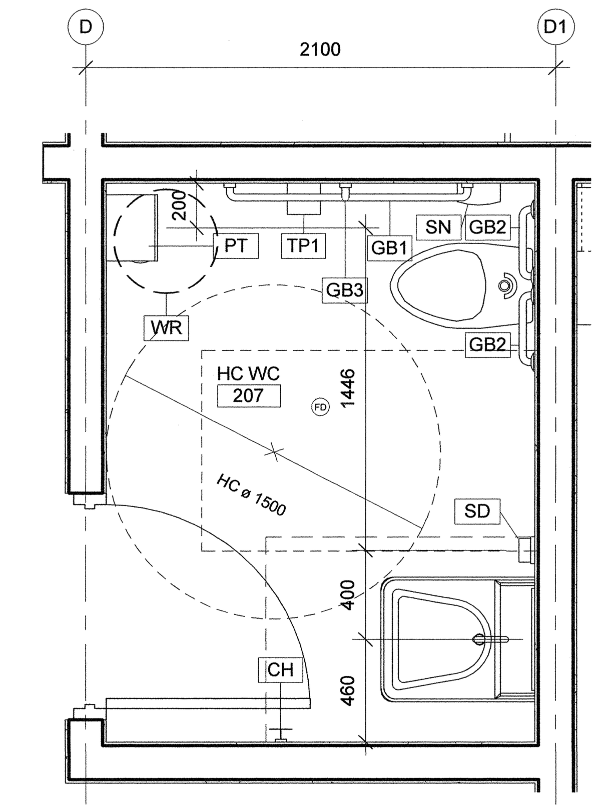
4/30/2018 9:38:46 AM



1 A801 Partial Plan - HC WC RM 106, WC RM 105 & WC RM 104
1 : 20

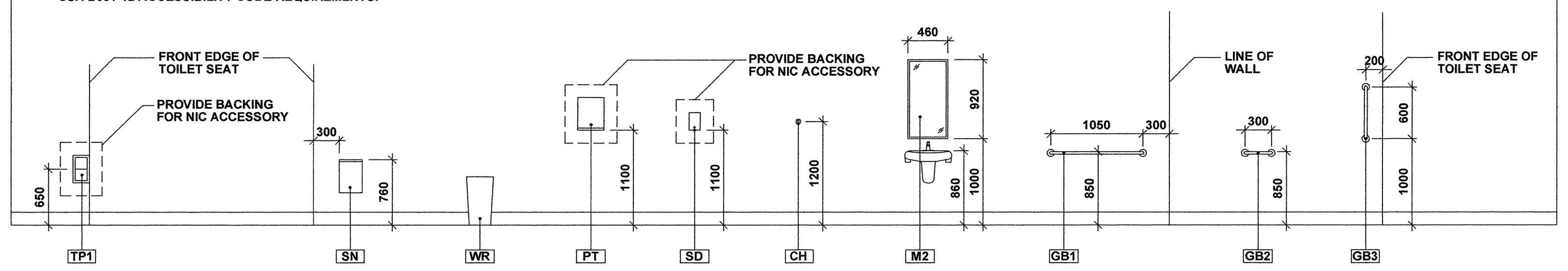


2 A801 Partial Plan - HC WC & Shower & Locker Rm 208 to 209
1 : 20



3 A801 Partial Plan - HC WC Rm 207
1 : 20

NOTES:
1. SEE FLOOR PLANS FOR EXACT LAYOUTS.
2. ANCHOR ACCESSORIES INTO CONCEALED SOLID BACKING AS NEEDED.
3. ALL GRAB BAR DIAMETER AND MOUNTING HEIGHT TO MEET THE CSA B651-12 ACCESSIBILITY CODE REQUIREMENTS.



WASHROOM ACCESSORIES TYPICAL MOUNTING HEIGHTS

SCALE : N.T.S.

WASHROOM ACCESSORIES

TP1	TOILET PAPER HOLDER	SURFACE MOUNTED HOLDER N.I.C. CONTRACTOR TO SUPPLY BACKING IN WALL AT LOCATION FOR OWNER INSTALLATION
SN	SANITARY NAPKIN DISPOSAL	SURFACE MOUNTED
WR	WASTE RECEPTACLE	FREE STANDING BASKET N.I.C
PT	PAPER TOWEL DISPENSER	SURFACE MOUNTED HOLDER N.I.C. CONTRACTOR TO SUPPLY BACKING IN WALL AT LOCATION FOR OWNER INSTALLATION
SD	SOAP DISPENSER	SURFACE MOUNTED HOLDER N.I.C. CONTRACTOR TO SUPPLY BACKING IN WALL AT LOCATION FOR OWNER INSTALLATION
CH	CLOTHES HOOK	SURFACE MOUNTED
M2	FRAMED MIRROR	SURFACE MOUNTED
GB1	GRAB BAR	610mm x 610mm x 120°
GB2	GRAB BAR	1050mm
GB3	GRAB BAR	600mm

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PREETIPAUL PAUL

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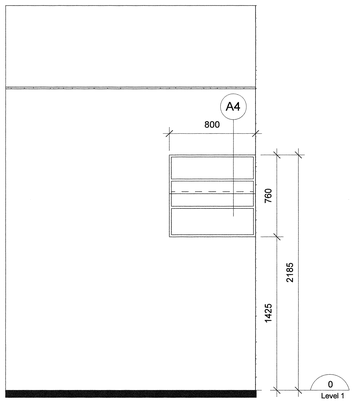
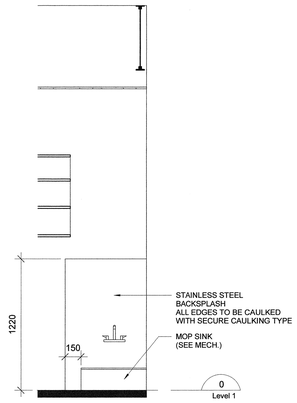
WASHROOMS AND SHOWER PARTIAL PLANS AND ACCESSORIES

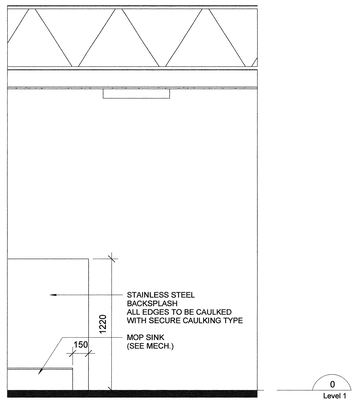
Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	A801	0



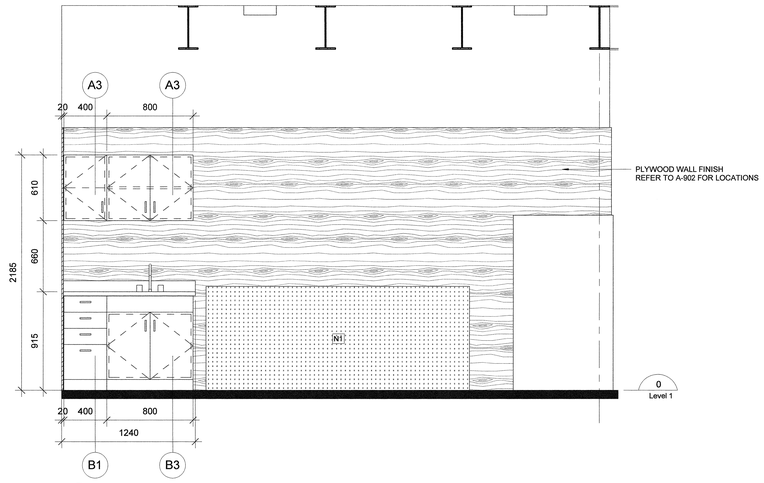
1 A802 Millwork - Janitor 103
1 : 20



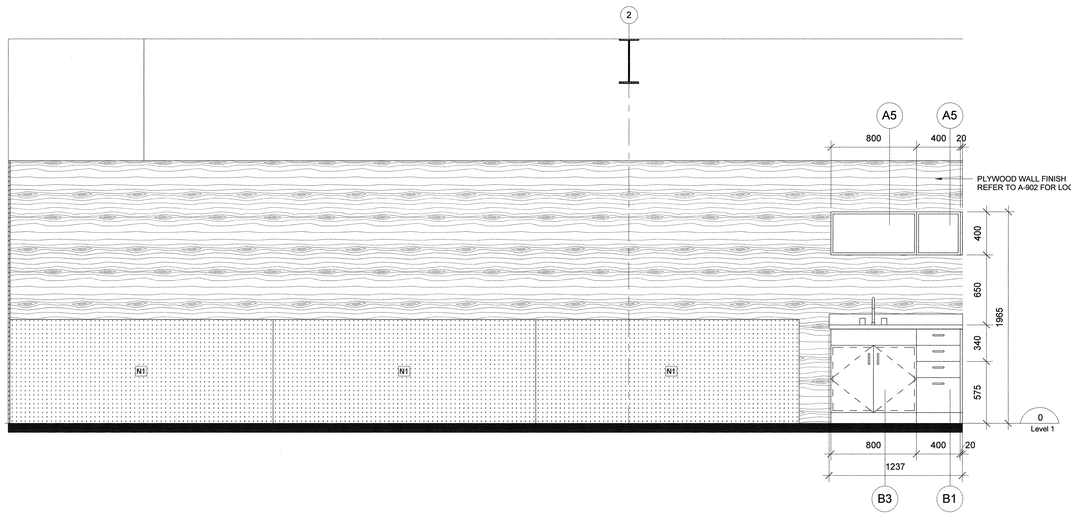
2 A802 Int. Elev. - Janitor 103
1 : 20



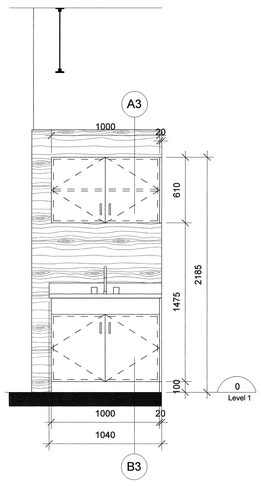
3 A802 Int. Elev. - Janitor 103
1 : 20



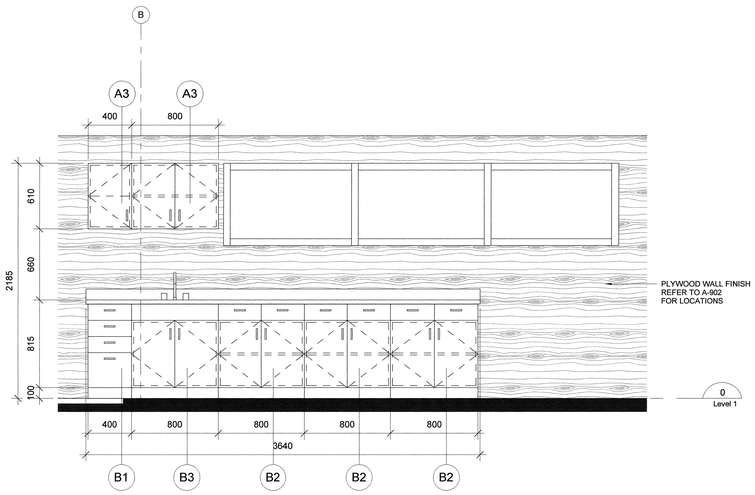
4 A802 Millwork - Carpentry Shop 114
1 : 20



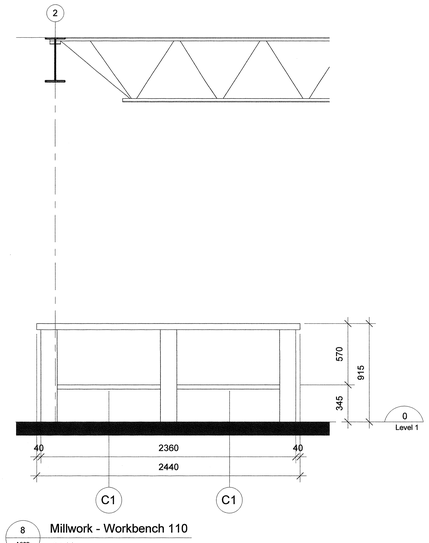
5 A802 Millwork - Welding Shop 111
1 : 20



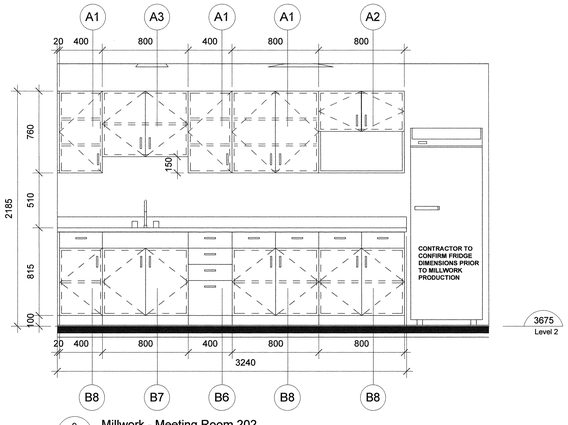
6 A802 Millwork - Gen. Workshop 110
1 : 20



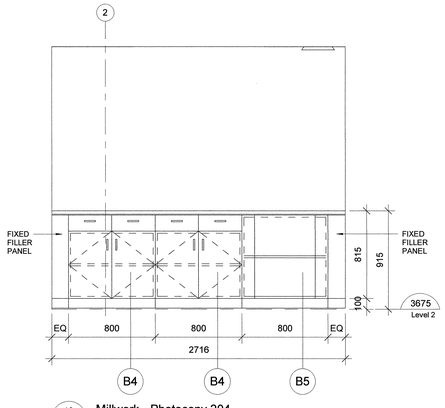
7 A802 Millwork - Garage Work Bay 108
1 : 20



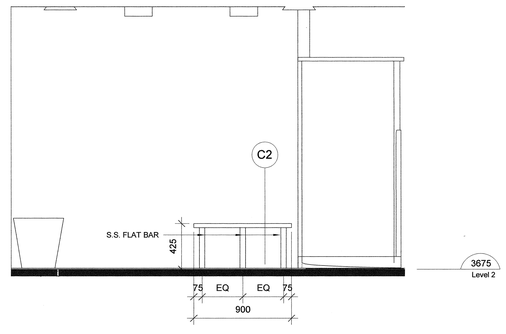
8 A802 Millwork - Workbench 110
1 : 20



9 A802 Millwork - Meeting Room 202
1 : 20



10 A802 Millwork - Photocopy 204
1 : 20



11 A802 Millwork - Shower 208
1 : 20

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

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REGISTERED ARCHITECT DARYL SINCLAIR BRITISH COLUMBIA

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RG/KL

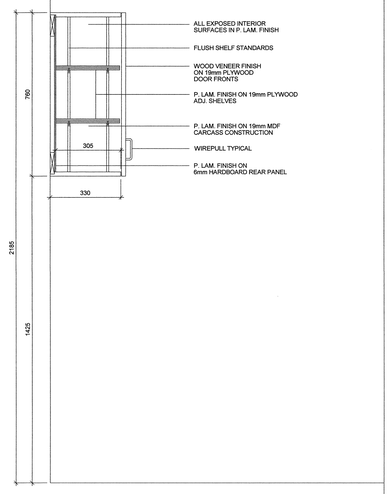
PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAIR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régional, Services d'architectural et de génie, TPSGC
PREETIPAUL PAUL

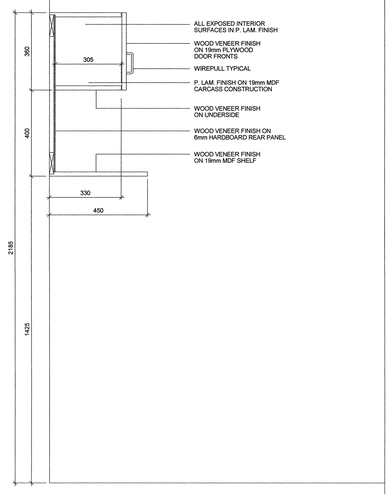
Drawing title/Titre du dessin

MILLWORK ELEVATIONS AND INTERIOR ELEVATIONS

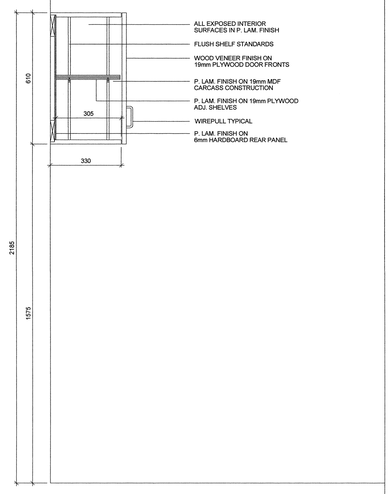
Project No./No. du projet	Sheet/ Feuille	Revision no./ No Révision no.
R.069377.001	A802	0



A1 A-803 TYPICAL UPPER CABINET
SCALE 1:10



A2 A-803 TYPICAL MICROWAVE CABINET
SCALE 1:10



A3 A-803 TYPICAL UPPER CABINET
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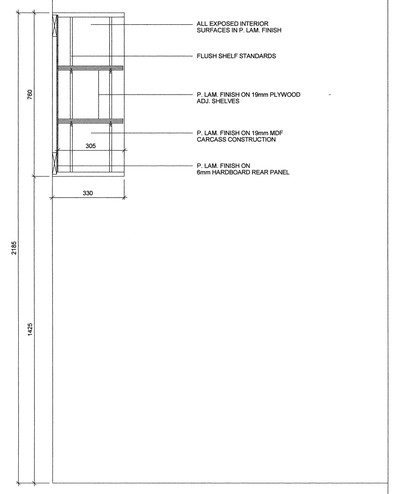

A4 A-803 TYPICAL UPPER CABINET
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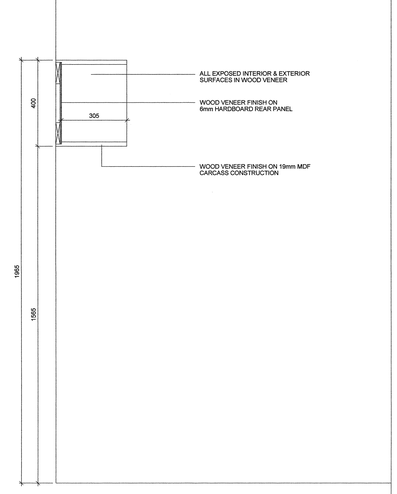
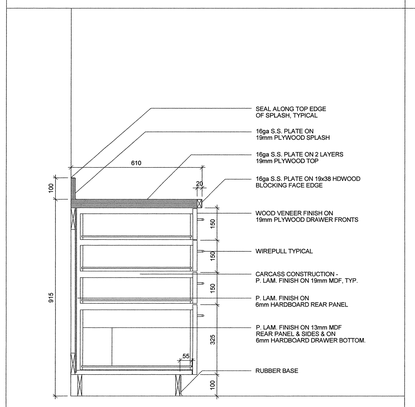


A5 A-803 TYPICAL UPPER CABINET
SCALE 1:10



B1 A-803 TYPICAL BASE CABINET
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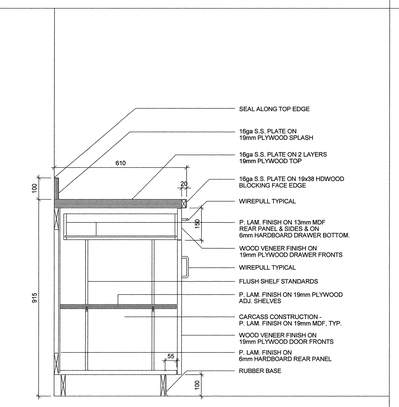

B2 A-803 TYPICAL BASE CABINET
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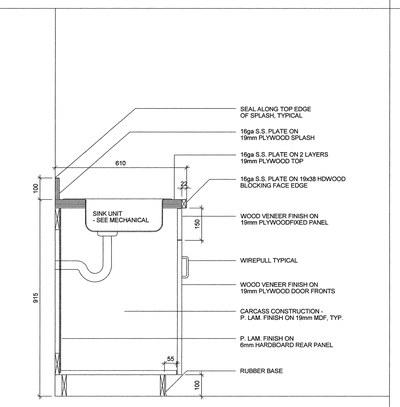
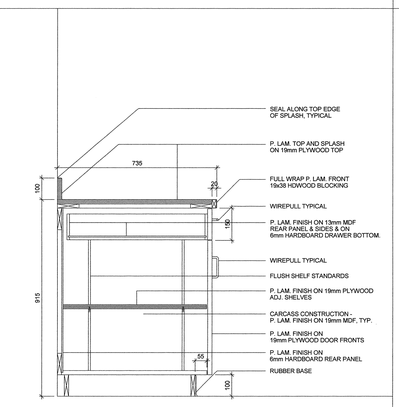
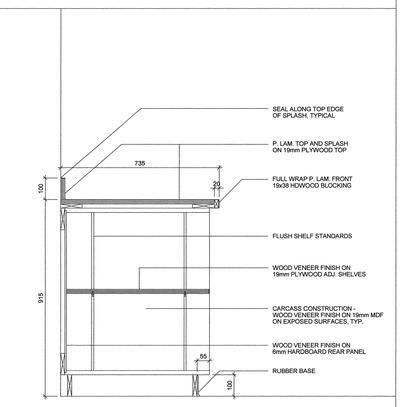


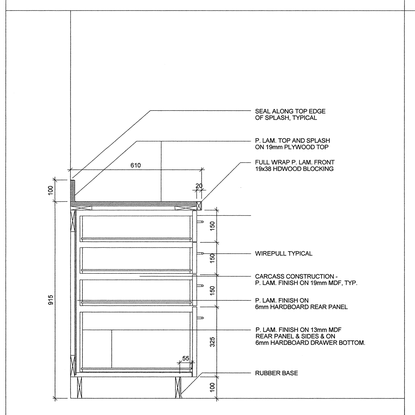
B3 A-803 TYPICAL BASE CABINET
SCALE 1:10



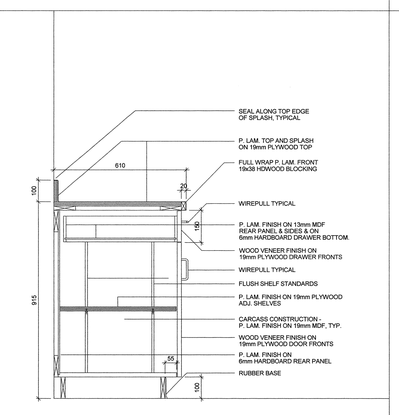
B4 A-803 TYPICAL BASE CABINET
SCALE 1:10



B5 A-803 TYPICAL BASE CABINET
SCALE 1:10



B6 A-803 TYPICAL BASE CABINET
SCALE 1:10



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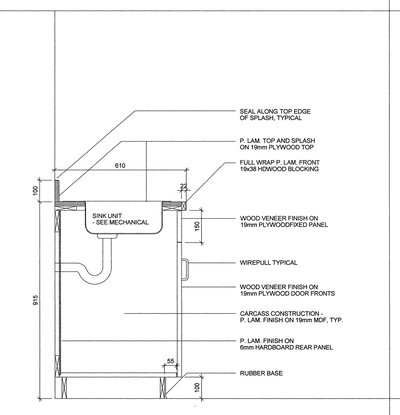
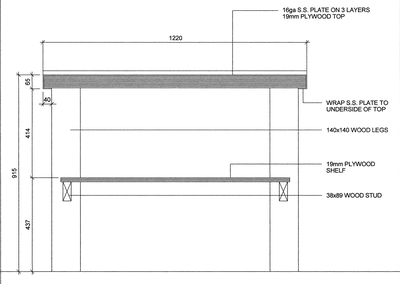
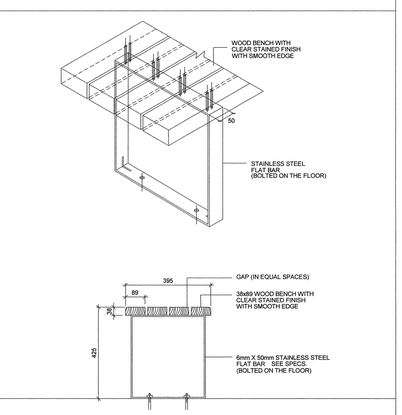
SCALE 1:10



B8 A-803 TYPICAL BASE CABINET
SCALE 1:10



C1 A-803 TYPICAL WORK BENCH
SCALE 1:10



C2 A-803 TYPICAL BENCH
SCALE 1:10

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
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DGBK

REGISTERED ARCHITECT
PROVINCE OF BRITISH COLUMBIA

Revision/ Revision	Description/Description	Date/Date
0	ISSUE FOR TENDER	2018-05-02

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
ROGER GREEN

Drawn by/Dessiné par
RG/KL

PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC
PREETIPAUL PAUL

Drawing title/Titre du dessin

MILLWORK DETAILS

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	A803	0

4/30/2018 9:38:52 AM

PWGSC – A0 – 1189X841

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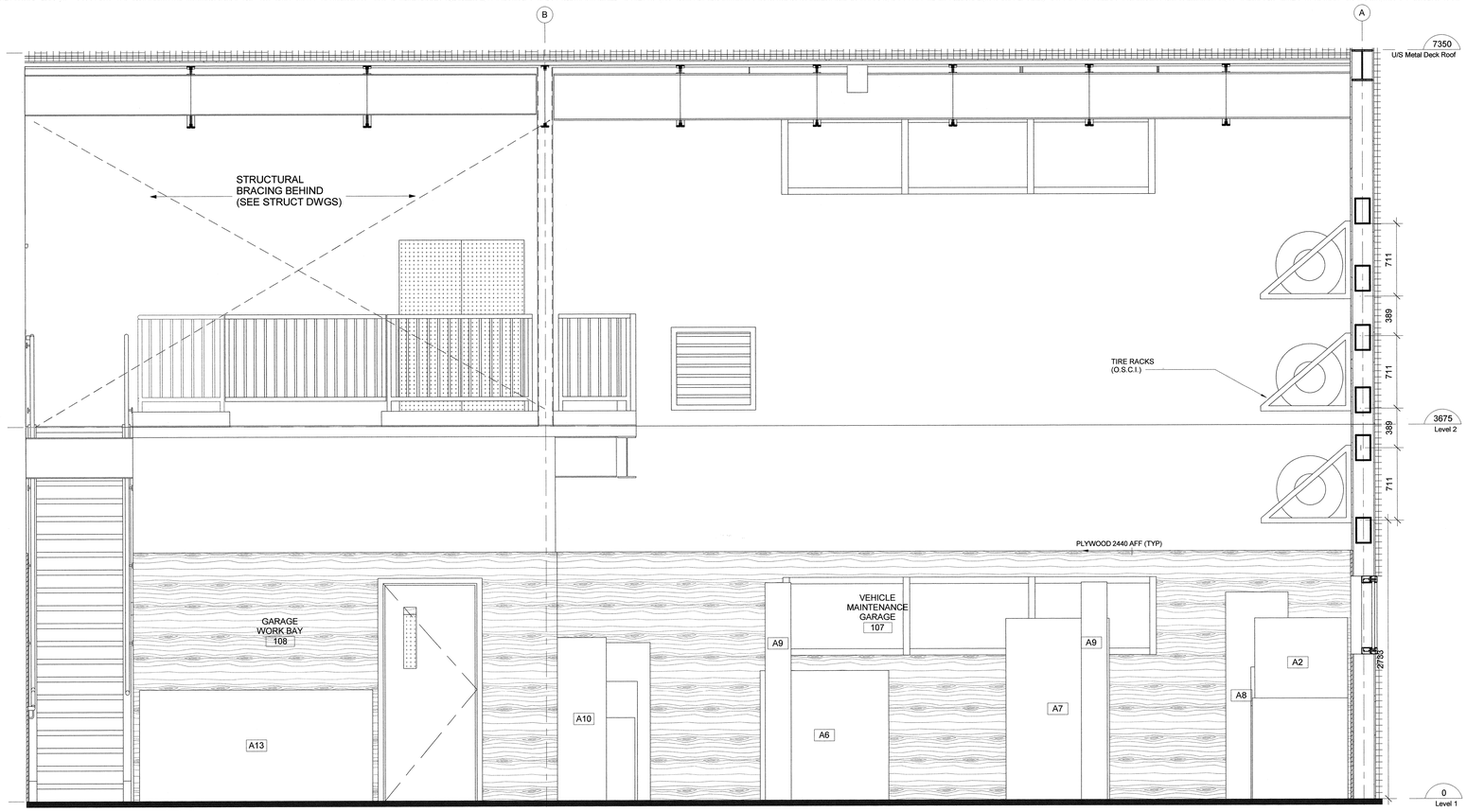
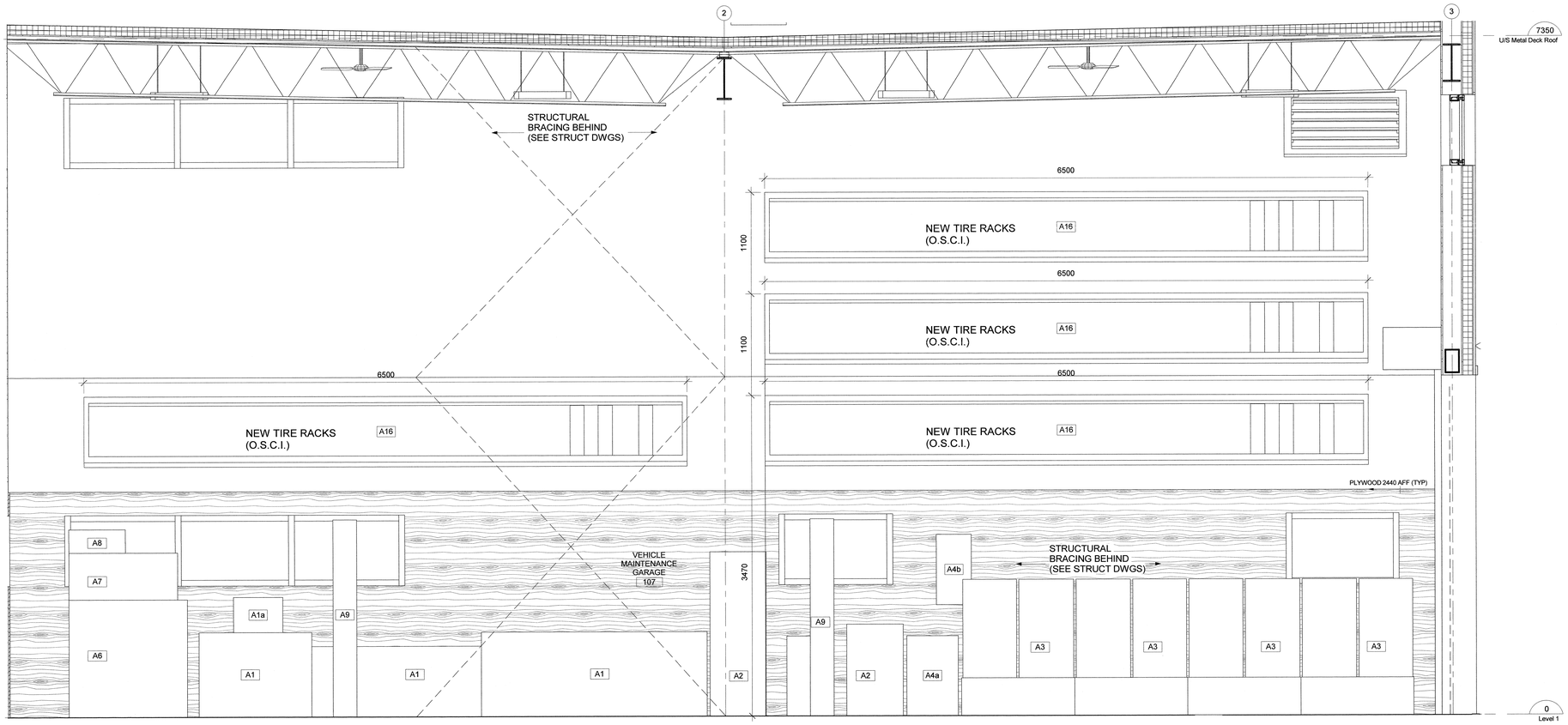


2 / A821 Rm 107 & 108 - N Elev

1 : 20



1 / A821 Rm 107 - E Elev

1 : 20

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BRITISH COLUMBIA

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CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
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PREETIPAUL PAUL

Drawing title/Titre du dessin

INT. ELEVATIONS - RM 107 & 108 VEHICLE MAINTENANCE GARAGE & GARAGE WORK BAY

Project No./No. du projet	Sheet/ Feuille	Revision no./ Lo Révision no.
R.069377.001	A821	0

4/30/2018 9:38:54 AM

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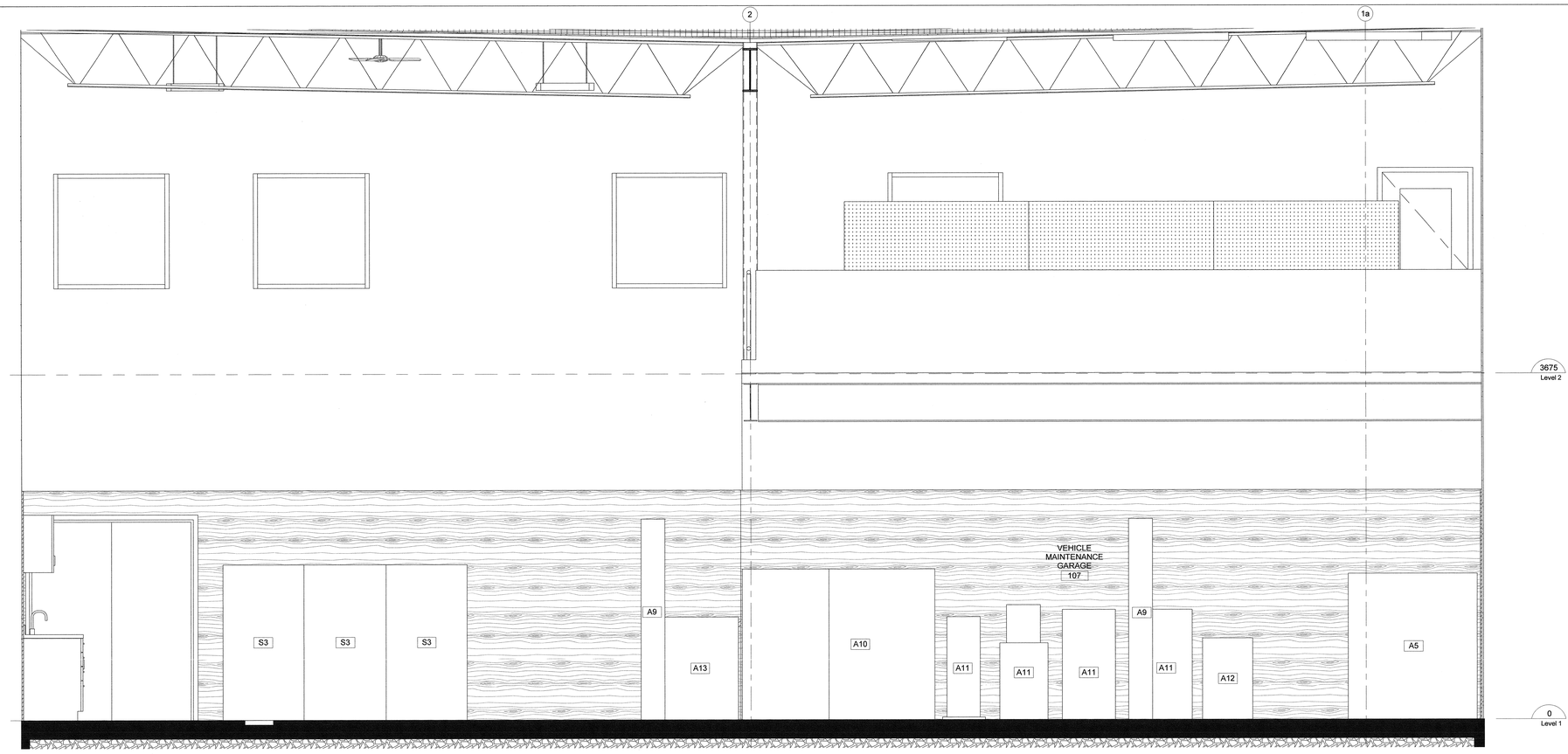
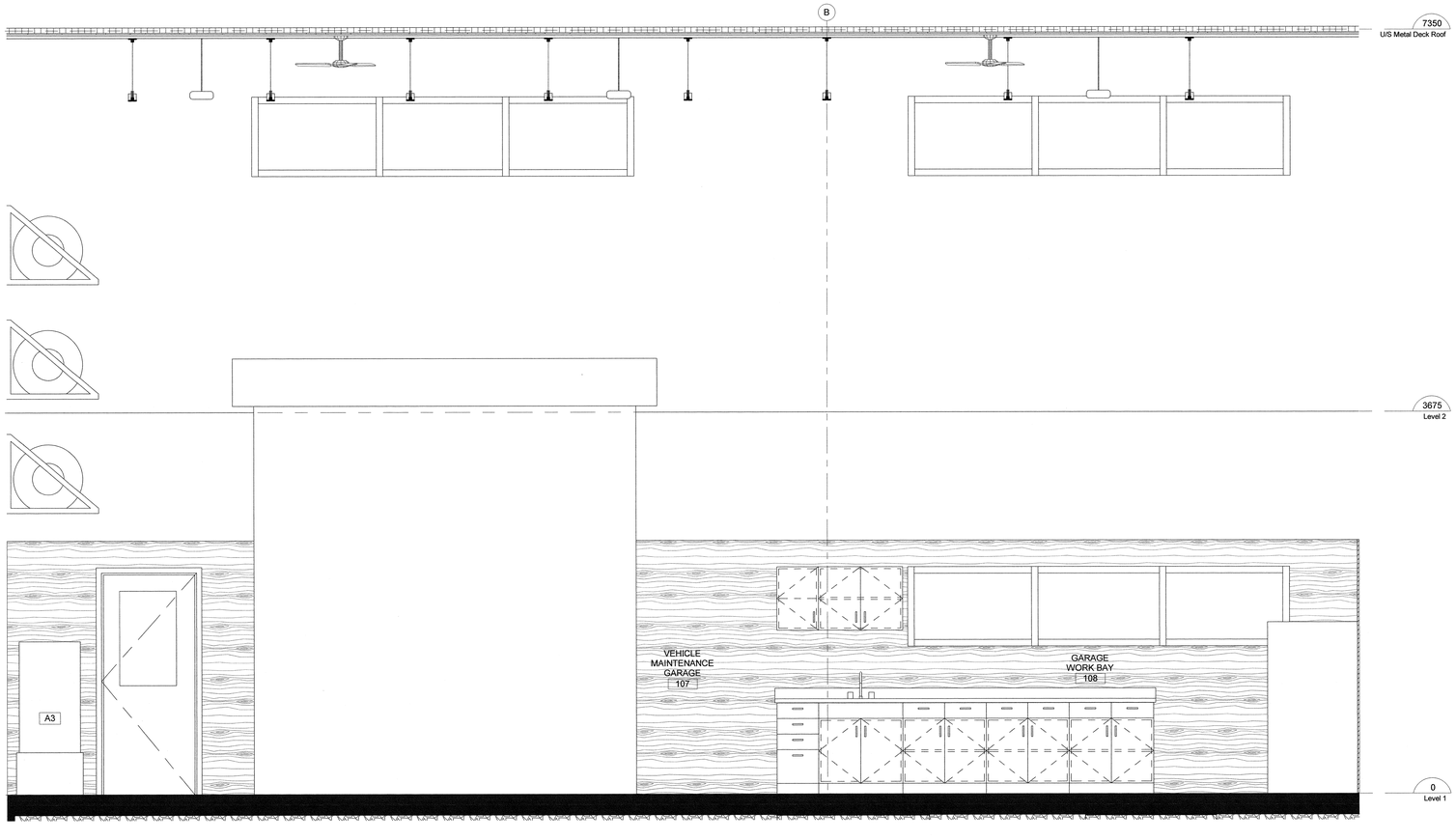


2 A822 Rm 107 & 108 - W Elev
1 : 20



1 A822 Rm 107 & 108 - S Elev
1 : 20

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REAL PROPERTY SERVICES
Pacific Region
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REGISTERED ARCHITECT
ROGER GREEN
BRITISH COLUMBIA

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CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

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Drawn by/Dessine par
RG/KL

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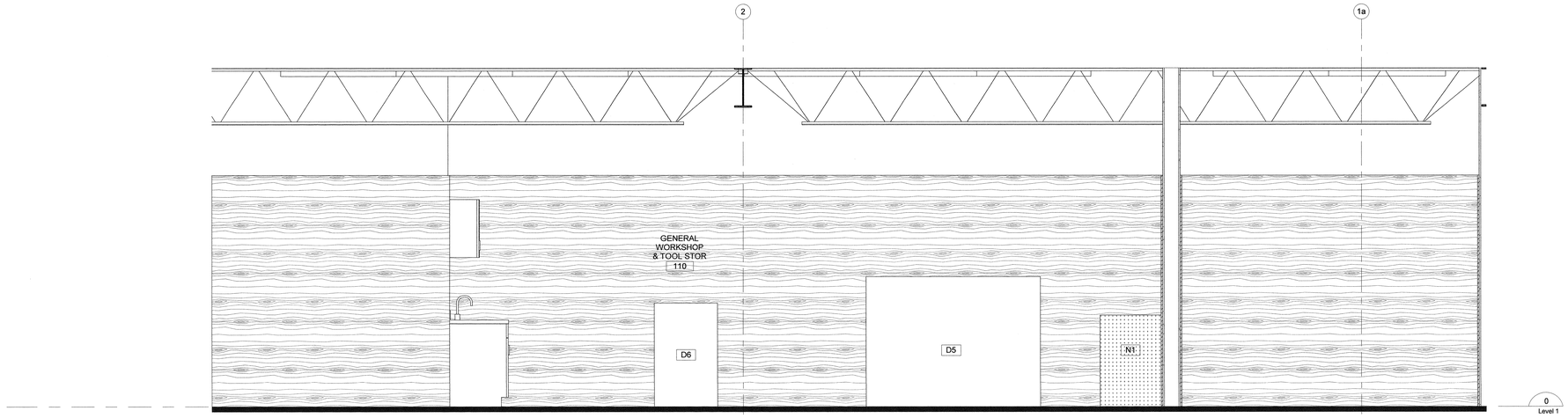
DARYL SINCLAR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC
PREETIPAUL PAUL

Drawing title/Titre du dessin

INT. ELEVATIONS - RM 107 & 108 VEHICLE MAINTENANCE GARAGE & GARAGE WORK BAY

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	A822	0



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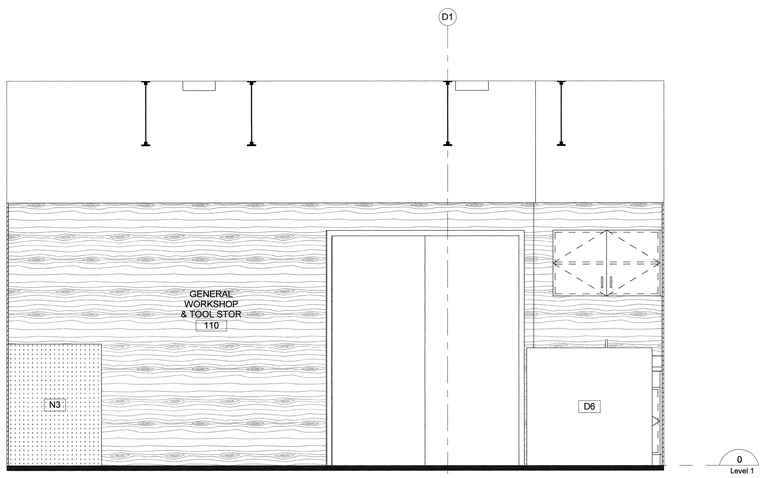
1 : 20



3 A823 Rm 110 - S Elev
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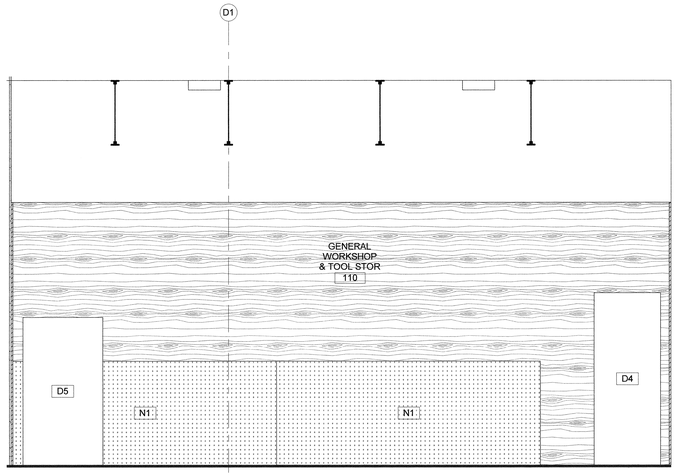
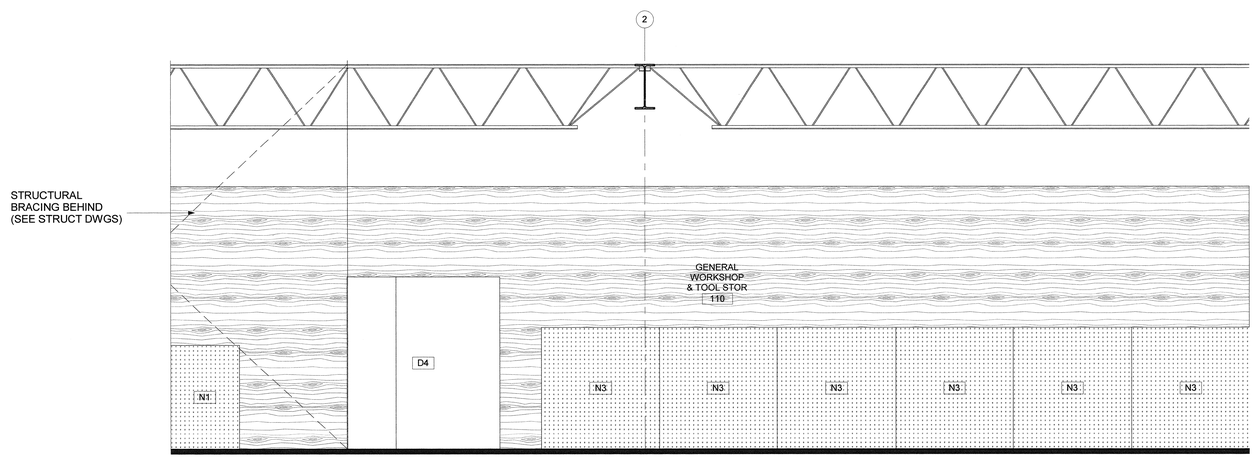


2 A823 Rm 110 - N Elev
1 : 20



1 A823 Rm 110 - E Elev
1 : 20

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Pacific Region
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REGISTERED ARCHITECT
ROGER GREEN
BRITISH COLUMBIA

0	ISSUE FOR TENDER	2018-05-02
Revision/ Révision	Description/Description	Date/Date

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
ROGER GREEN

Drawn by/Dessiné par
RG/KL

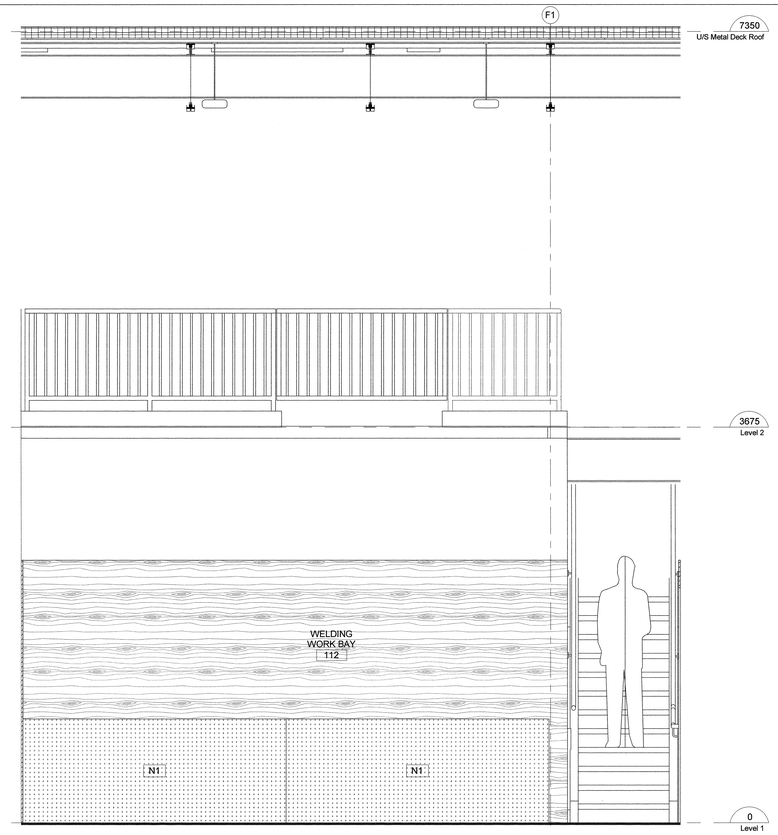
PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAIR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PREETIPAUL PAUL

Drawing title/Titre du dessin

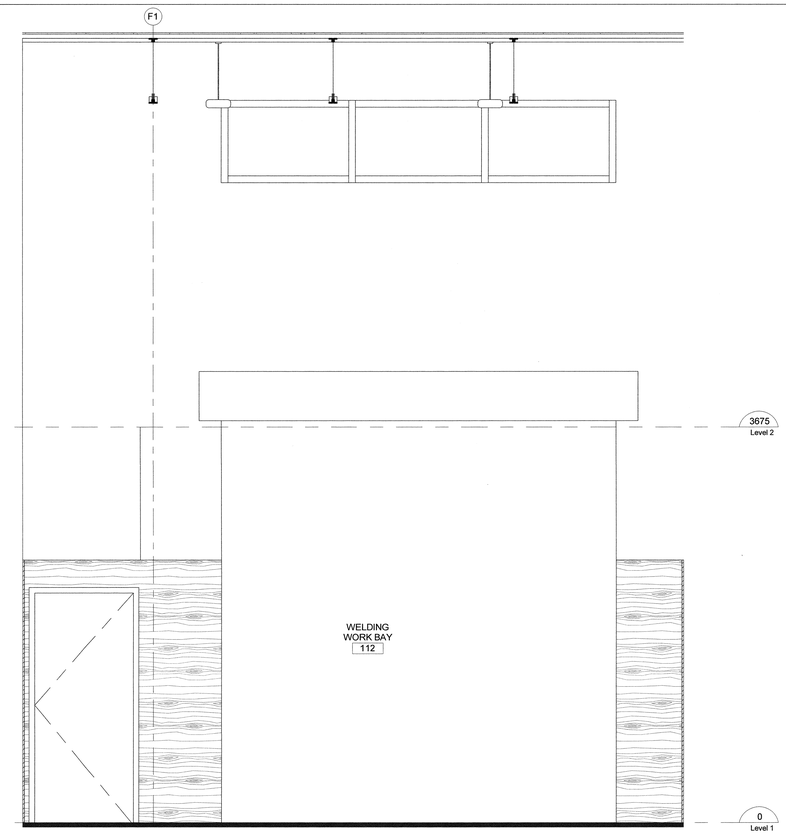
INT. ELEVATIONS - RM 110 GENERAL WORKSHOP & TOOL STORAGE

Project No./No. du projet	Sheet/ Feuille	Revision no./ Lé Révision no.
R.069377.001	A823	0



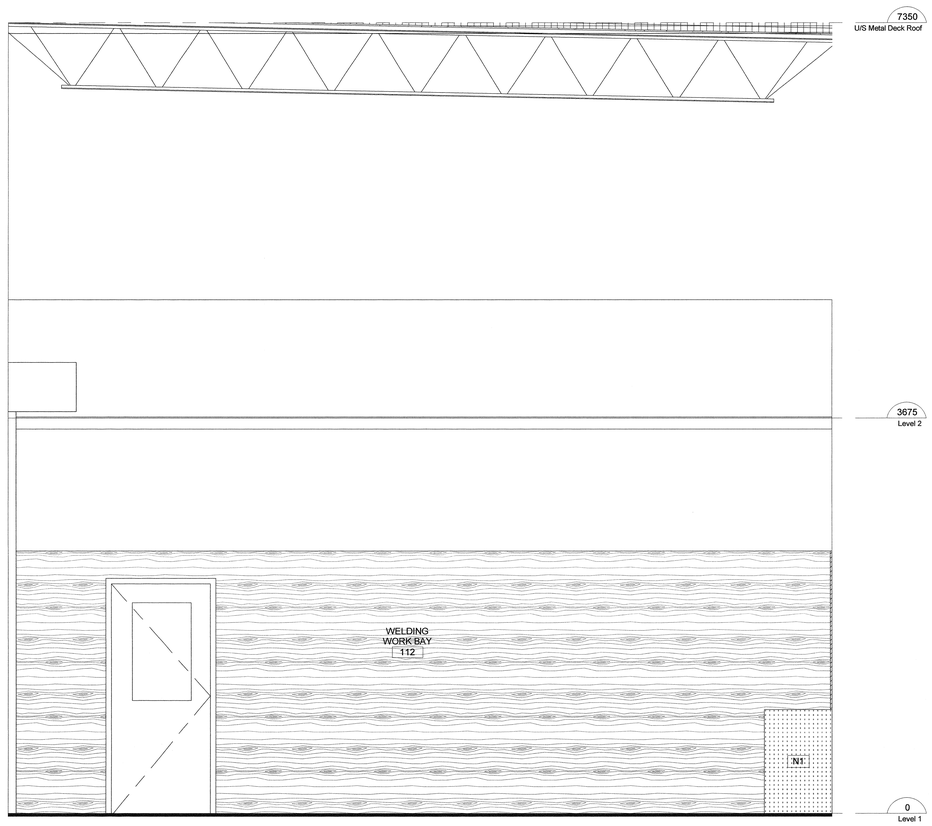
4 A824 Rm 112 - N Elev

1 : 20



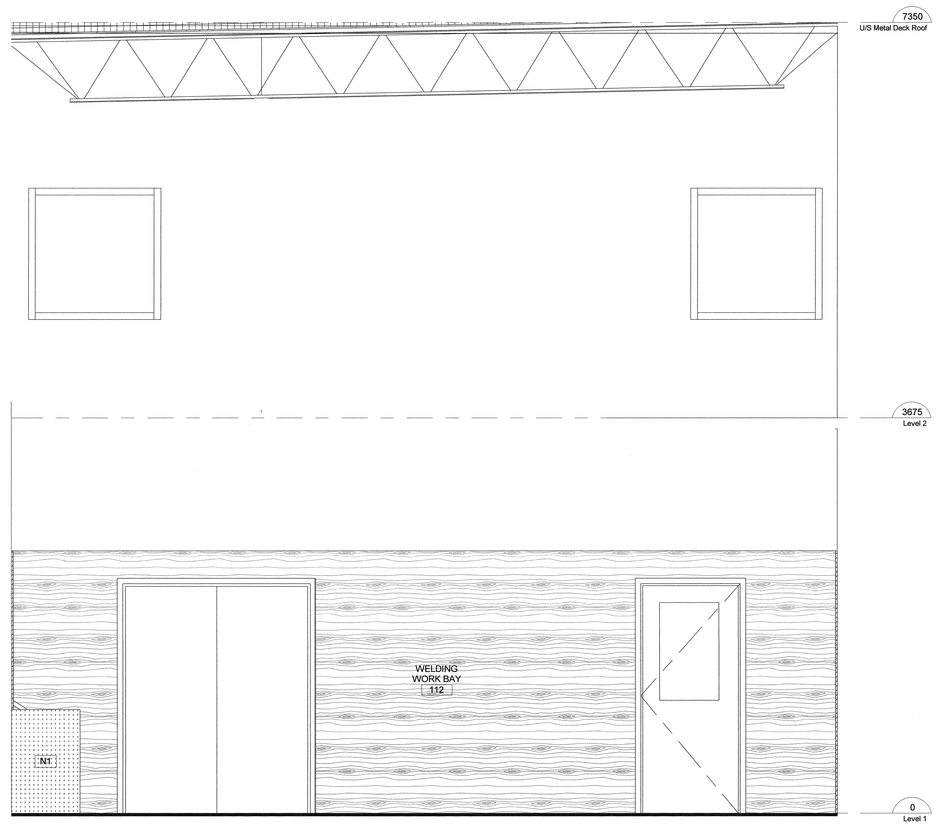
2 A824 Rm 112 - S Elev

1 : 20



3 A824 Rm 112 - W Elev

1 : 20



1 A824 Rm 112 - E Elev

1 : 20

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Pacific Region
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Région de Pacifique

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REGISTERED ARCHITECT PROVINCE OF BRITISH COLUMBIA

Revision/ Revision	Description/Description	Date/Date
0	ISSUE FOR TENDER	2018-05-02

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
ROGER GREEN

Drawn by/Dessine par
RG/KL

PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC
PREETIPAUL PAUL

Drawing title/Titre du dessin

INT. ELEVATIONS - RM 112 WELDING WORK BAY

Project No./No. du projet	Sheet/ Feuille	Revision no./ Le Révision no.
R.069377.001	A824	0

PWGSC – A0 – 1189X841

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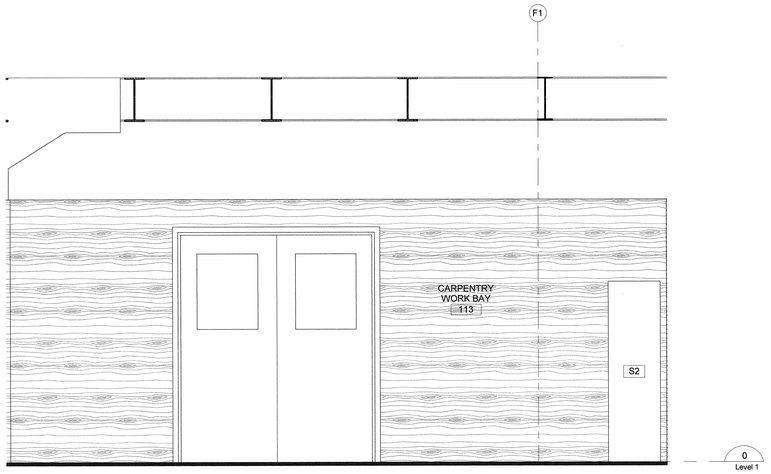
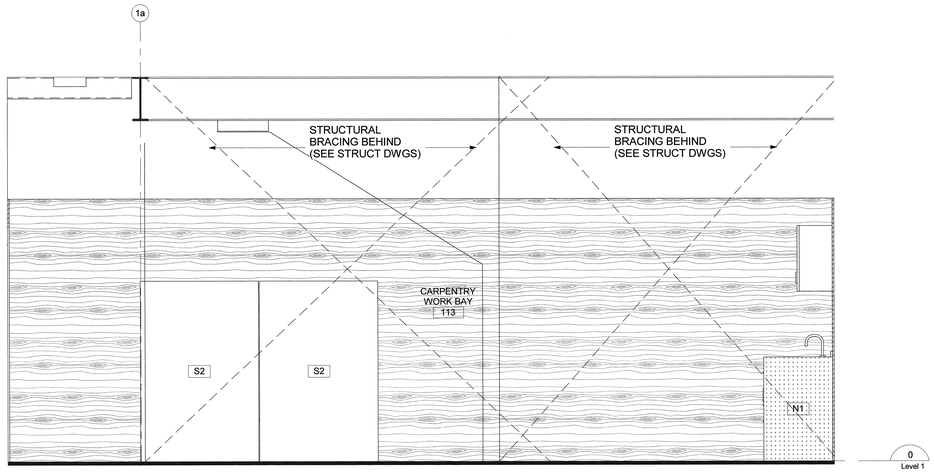
4/30/2018 9:38:59 AM



4 A825 Rm 113 - N Elev
1 : 20



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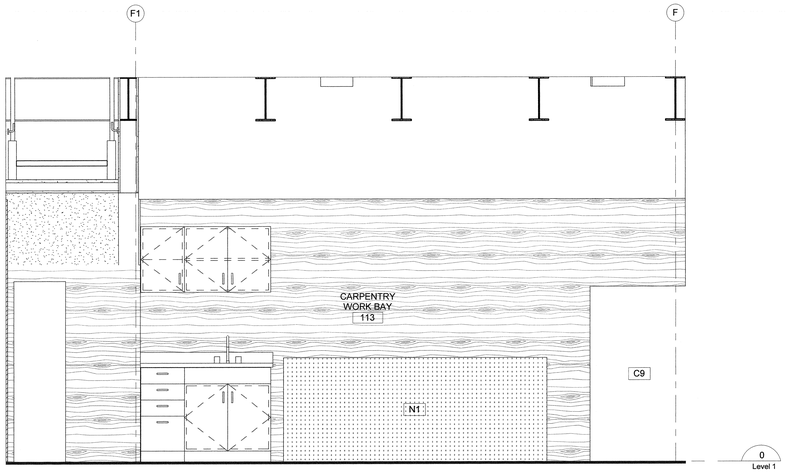
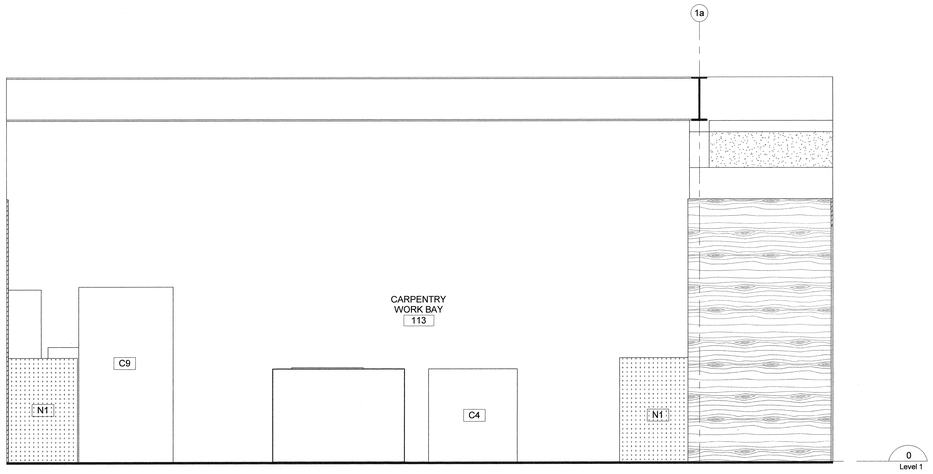


3 A825 Rm 113 - S Elev
1 : 20



1 A825 Rm 113 - E Elev
1 : 20

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada

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REGISTERED ARCHITECT
JAMES SHIM
BRITISH COLUMBIA

Revision/ Revision	Description/Description	Date/Date
0	ISSUE FOR TENDER	2018-05-02

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
ROGER GREEN

Drawn by/Dessine par
RG/KL

PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAIR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC
PREETIPAUL PAUL

Drawing title/Titre du dessin

INT. ELEVATIONS - RM 113 CARPENTRY WORK BAY

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	A825	0

PWGSC – A0 – 1189X841

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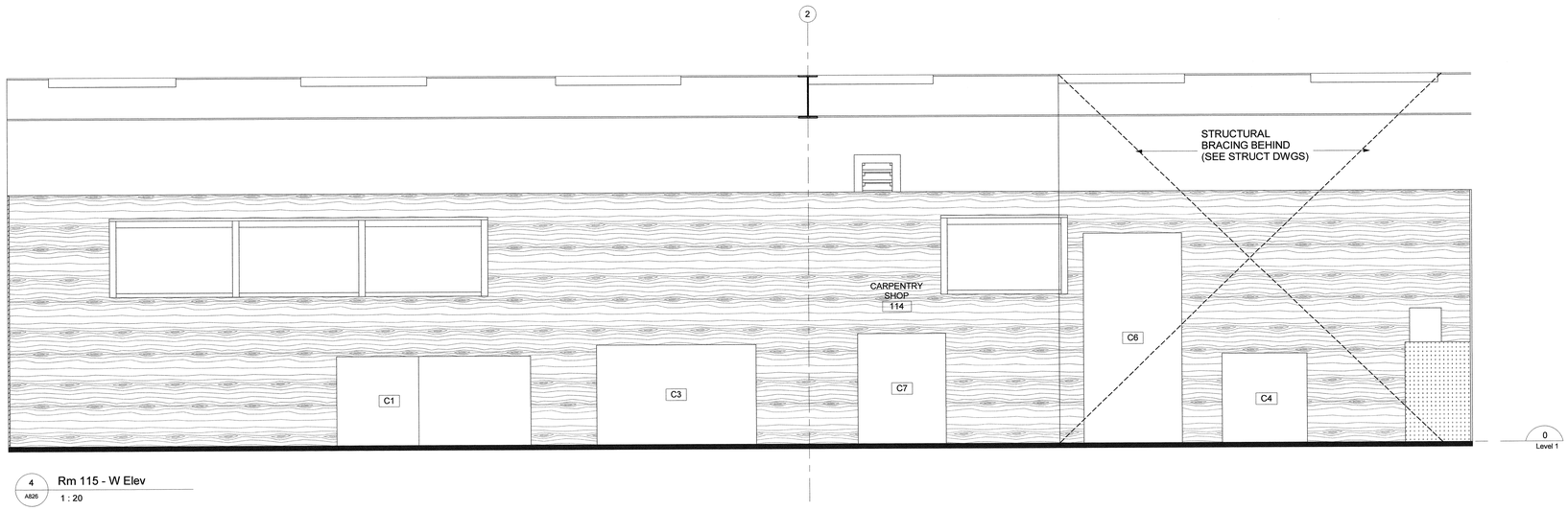
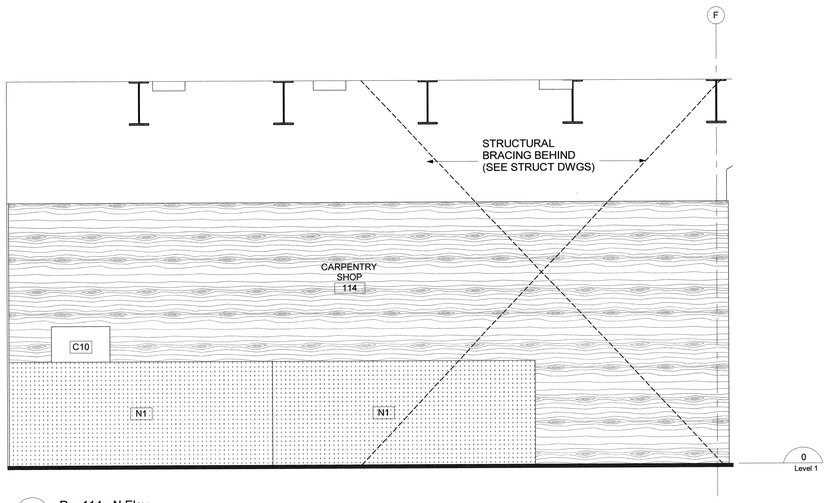
4/30/2018 9:39:01 AM



4 A826 Rm 115 - W Elev
1 : 20



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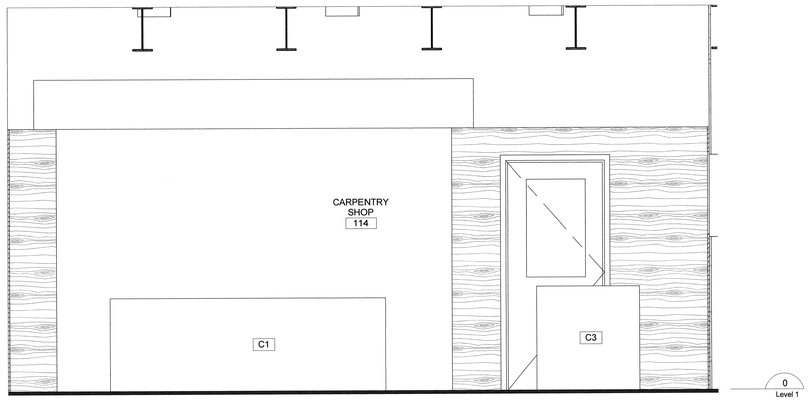
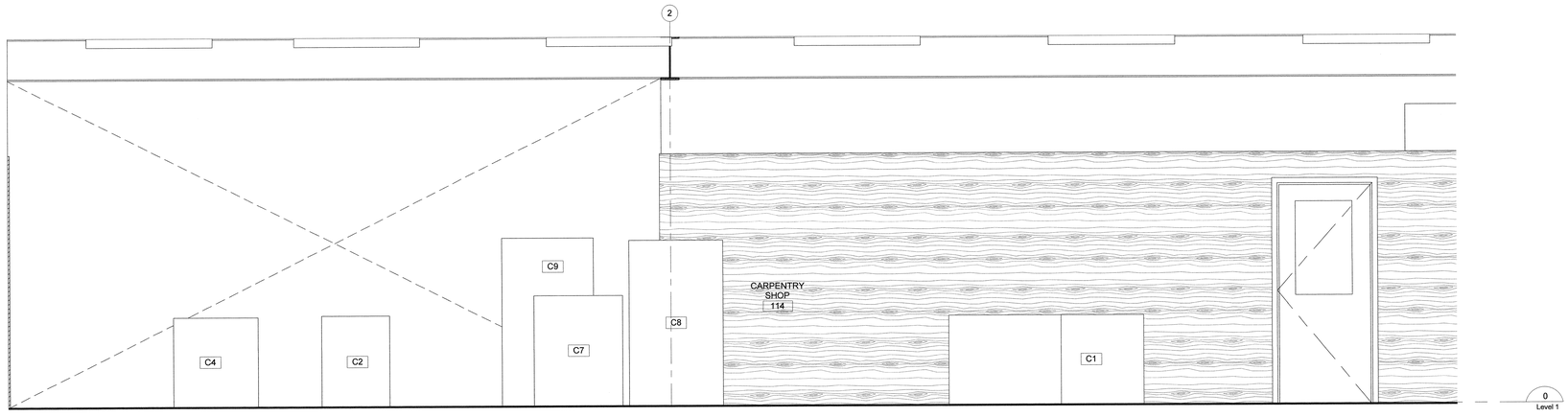
1 : 20



2 A826 Rm 114 - S Elev
1 : 20



1 A826 Rm 114 - E Elev
1 : 20

Public Works and Government Services Canada
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REGISTERED ARCHITECT
PROVINCE OF BRITISH COLUMBIA

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CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
ROGER GREEN

Drawn by/Dessine par
RG/KL

PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC
PREETIPAUL PAUL

Drawing title/Titre du dessin

INT. ELEVATIONS - RM 114 CARPENTRY SHOP

Project No./No. du projet	Sheet/ Feuille	Revision no./ Lo Révision no.
R.069377.001	A826	0

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada
REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

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DGBK DOOR SCHEDULES

DOOR #	FROM ROOM #	From Room: Name	TO ROOM #	To Room: Name	DOOR DATA: WIDTH	HEIGHT	THICKNESS	DOOR TYPE	INSULATED	ULC Ratings	STC	Finish	FRAME DATA: TYPE	ULC Ratings	GLASS TYPE	DOOR HARDWARE: HDWE GROUP	DOOR POSITION	COMMENTS
100	100	CORRIDOR	100a	VESTIBULE	2 x 865	2134	45	C	Yes	45		SCM	PSF	45	WIRED GLASS	2		Auto Operator w/ Push Button
100a	100a	VESTIBULE		EXTERIOR	2 X 865	2134	50	D	Yes			SCM	PSF		DBL GLAZED	1	DP	Auto Operator w/ Push Button
102	102	ELEV MACH RM	112	WELDING WORK BAY	914	2134	45	A	No	45		HCM	PSF	45		6		Door Grille - Refer to Mech
103	103	JAN RM	100	CORRIDOR	865	2134	45	A	No	0		HCM	PSF	0		6		Door Grille - Refer to Mech
104	104	WC	100	CORRIDOR	914	2134	45	A	No			HCM	PSF			6		Door Undercut - Refer to Mech
105	100	CORRIDOR	105	WC	914	2134	45	A	No			HCM	PSF			6		Door Undercut - Refer to Mech
106	100	CORRIDOR	106	HC WC	914	2134	45	A	No			HCM	PSF			6		Door Undercut - Refer to Mech
107	107	VEHICLE MAINTENANCE GARAGE		EXTERIOR	914	2134	45	C	Yes			SCM	PSF		DBL GLAZED	3	DP	
107a		EXTERIOR	107	VEHICLE MAINTENANCE GARAGE	3660	3735	76	F	Yes							Overhead	DP	Overhead door (large)
108	100	CORRIDOR	108	GARAGE WORK BAY	2 x 865	2134	45	C	No	90		HCM	PSF	90	FIRE GLASS	9		
109	109	GARAGE STORAGE	108	GARAGE WORK BAY	914	2134	45	B	No			HCM	PSF			8		
110	100	CORRIDOR	110	GENERAL WORKSHOP & TOOL STOR	2 x 865	2134	45	C	No			HCM	PSF			9		Door Grille - Refer to Mech
111	111	METAL WORK AND WELDING SHOP	112	WELDING WORK BAY	2 x 865	2134	45	C	No			HCM	PSF			9		Door Grille - Refer to Mech
111a	111	METAL WORK AND WELDING SHOP		EXTERIOR	2 X 914	2134	45	C	Yes			SCM	PSF		DBL GLAZED	4	DP	
112	100	CORRIDOR	112	WELDING WORK BAY	914	2134	45	C	No			HCM	PSF			7		
112a		EXTERIOR	112	WELDING WORK BAY	3660	3735	76	F	Yes							Overhead	DP	Overhead door (large)
114	112	WELDING WORK BAY	114	CARPENTRY SHOP	914	2134	45	C	No			HCM	PSF			7		Weather seals for Dust Control
114a		EXTERIOR	114	CARPENTRY SHOP	914	2134	45	C	Yes			SCM	PSF		DBL GLAZED	3	DP	
114b	113	CARPENTRY WORK BAY		EXTERIOR	2 X 914	2134	45	C	Yes			SCM	PSF		DBL GLAZED	4		
114c	114	CARPENTRY SHOP		EXTERIOR	3660	2440	76	E	Yes							Overhead	DP	Overhead door (small)
115	115	MECH RM		EXTERIOR	914	2134	45	A	Yes			SCM	PSF			3	DP	
116	116	ELEC RM		EXTERIOR	914	2134	45	A	Yes			SCM	PSF			3	DP	
117	117	LAN RM		EXTERIOR	914	2134	45	A	Yes			SCM	PSF			3	DP	
202	200	CORRIDOR	202	MEETING ROOM	914	2134	45	C	No			HCM	PSF			7	DP	
203	203	OFFICE	205	GENERAL OFFICE	914	2134	45	C	No			HCM	PSF			11		
204	205	GENERAL OFFICE	204	PHOTOCOPY RM	914	2134	45	C	No			HCM	PSF			12		Door Undercut - Refer to Mech
205	200	CORRIDOR	205	GENERAL OFFICE	914	2134	45	C	No			HCM	PSF			7		
205a	205	GENERAL OFFICE	210	PLATFORM	914	2134	45	C	No	90		HCM	PSF	90	FIRE GLASS	6		
205b	211	PLATFORM	205	GENERAL OFFICE	914	2134	45	C	No	45		HCM	PSF	45	WIRED GLASS	6		
206	205	GENERAL OFFICE	206	OFFICE	914	2134	45	C	No			HCM	PSF			11		
207	200	CORRIDOR	207	HC WC	914	2134	45	A	No			HCM	PSF			10		
208	209	LOCKER RM	208	SHOWER	914	2134	45	A	No			HCM	PSF			10		Door Undercut - Refer to Mech
209	209	LOCKER RM	200	CORRIDOR	914	2134	45	A	No			HCM	PSF			6		Door Grille - Refer to Mech
212	212	COMPRESSOR RM	211	PLATFORM	2 x 865	2134	45	A	No			HCM	PSF			9		
A1	A1	STAIR A	100a	VESTIBULE	914	2134	45	E	No	45		HCM	PSF	45	WIRED GLASS	6		
A2	200	CORRIDOR	A2	STAIR A	914	2134	45	E	No	45		HCM	PSF	45	WIRED GLASS	6		
A3	A3	STAIR A			914	2134	45	E	Yes			SCM	PSF		DBL GLAZED	3	DP	
D1	D1	STAIR D		EXTERIOR	914	2134	45	E	Yes			SCM	PSF		DBL GLAZED	5	DP	
D2	211	PLATFORM	D2	STAIR D	914	2134	45	E	No	45		HCM	PSF	45	WIRED GLASS	6		
Grand total: 39																		

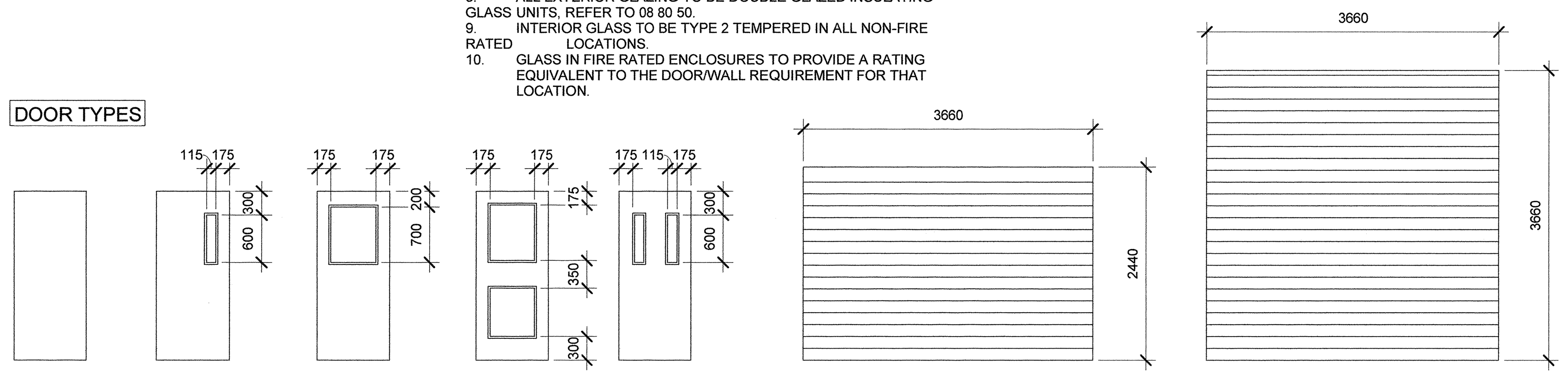
DOOR SCHEDULE LEGEND

PS	PRESSED STEEL
WD	WOOD
ALU	ALUMINUM
P	PAINTED
CF	CLEAR FINISH
HCM	HOLLOW CORE METAL
SCM	SOLID CORE METAL
INS	INSULATED

NOTES

1. DOORS TO BE 45MM THICK UNLESS NOTED OTHERWISE.
2. RATED FRAMES TO BE MINIMUM 16 GAUGE THICKNESS.
3. SOUND SEALS ON DOOR SCHEDULE INCLUDES CONTINUOUS SOUNDSTRIPPING AROUND FRAME AND DROP SEAL AT DOOR BOTTOM.
4. CO-ORDINATE WITH MECHANICAL SUB-TRADE TO IDENTIFY DOORS WITH GRILLES AND/OR UNDERCUTS.
5. PRESSED DOORS AND WINDOW FRAMES ARE TO BE PAINTED UNLESS NOTED OTHERWISE.
6. DOORS, UNLESS PRE-FINISHED TO BE PAINTED UNLESS NOTED OTHERWISE.
7. ALL DOOR FRAMES FOR DOORS WITH SOUND SEALS TO BE FILLED WITH BATT INSULATION OR FILLED WITH GROUT.
8. ALL EXTERIOR GLAZING TO BE DOUBLE GLAZED INSULATING GLASS UNITS, REFER TO 08 80 50.
9. INTERIOR GLASS TO BE TYPE 2 TEMPERED IN ALL NON-FIRE RATED LOCATIONS.
10. GLASS IN FIRE RATED ENCLOSURES TO PROVIDE A RATING EQUIVALENT TO THE DOOR/WALL REQUIREMENT FOR THAT LOCATION.

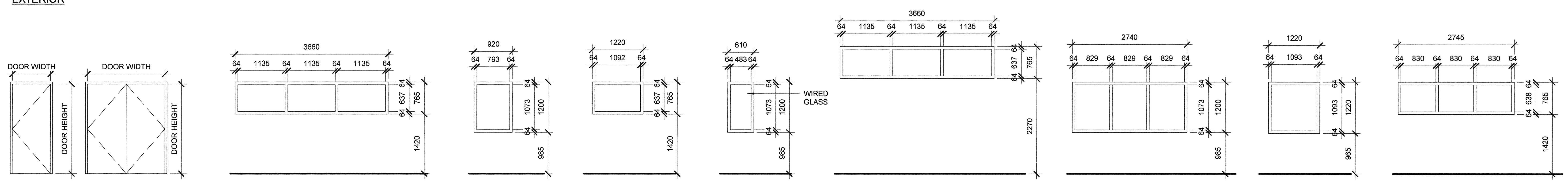
DOOR TYPES



TYPE 'A' SOLID FLUSH DOOR
TYPE 'B' VIEW PANEL FLUSH DOOR
TYPE 'C' HALF GLAZED FLUSH DOOR
TYPE 'D' FULL GLAZED FLUSH DOOR
TYPE 'E' VIEW PANEL FLUSH DOOR
TYPE 'F' OVERHEAD COILING DOOR
TYPE 'G' OVERHEAD COILING DOOR

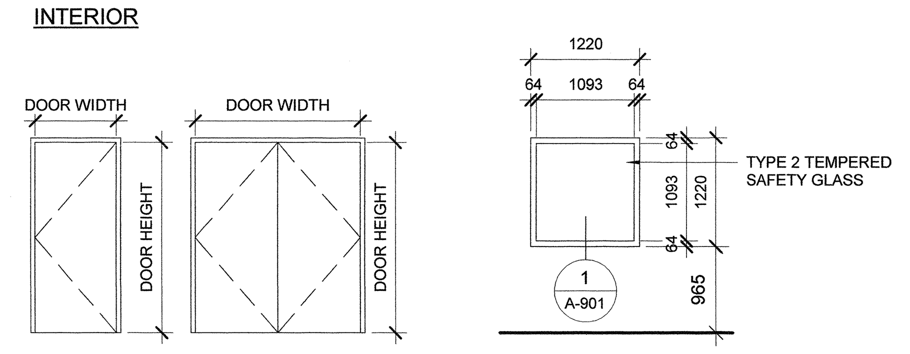
FRAME ELEVATIONS

EXTERIOR

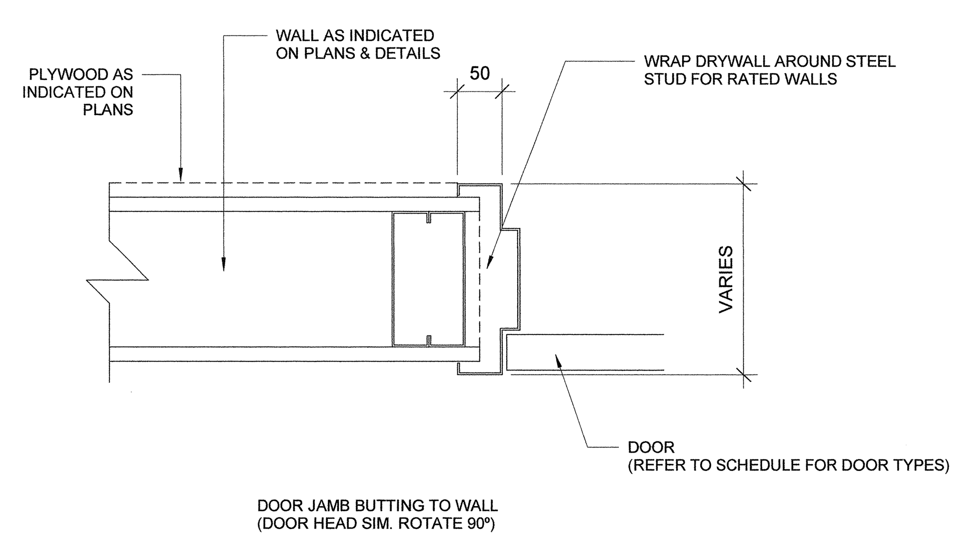


TYPE '1' TYPE '2' TYPE '3' TYPE '4' TYPE '5' TYPE '6' TYPE '7' TYPE '8' TYPE '9' TYPE '10'

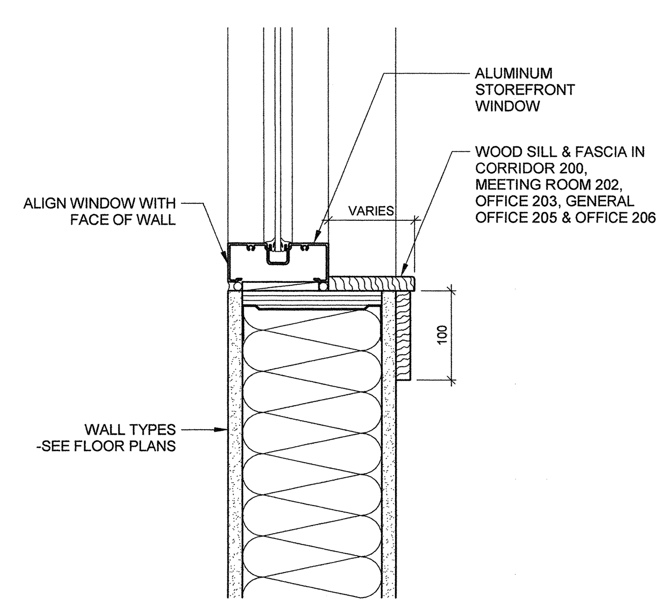
INTERIOR



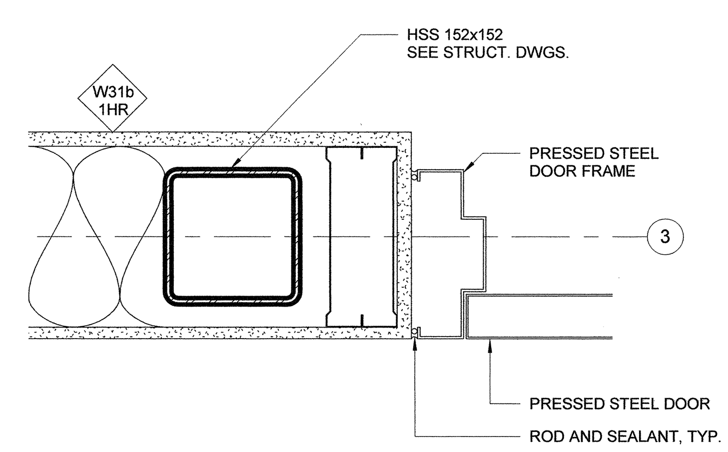
TYPE '11' TYPE '12' TYPE '13'



DOOR JAMB BUTTING TO WALL (DOOR HEAD SIM. ROTATE 90º)



1 / A901 Interior Section Detail - Typ. Int. Window Sill
1 : 5



2 / A901 Interior Plan Detail - Vestibule Door Jamb
1 : 5

Revision/Revision	Description/Description	Date/Date
0	ISSUE FOR TENDER	2018-05-02

Client/client
CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
6000 William Head Road, Metchosin, BC
WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par: ROGER GREEN
Drawn by/Dessine par: RG/KL
PWGSC Project Manager/Administrateur de Projets TPSGC: DARYL SINCLAR
PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC: PREETIPAUL PAUL

Drawing title/Titre du dessin
DOOR + WINDOW SCHEDULES

Project No./No. du projet: R.069377.001
Sheet/ Feuille: A901
Revision no./La Révision no.: 0

Room Schedule Finishes									
Room Number	Name	FLOOR		WALLS				Ceiling Finish	Comments
		Floor Finish	Base Finish	East Wall	South Wall	West Wall	North Wall		
	EXTERIOR								
0	LOWER ROOF								
100	CORRIDOR	SC	RB-1	PT-1	PT-1	PT-1	PT-1	ACT	
100a	VESTIBULE	SC	RB-1	PT-1	PT-1	PT-1	PT-1	ACT	
101	ELEVATOR	SV							Walls & Ceiling finish by Manufacturer
102	ELEV MACH RM	SC	RB-1	PT-1	PT-1	PT-1	PT-1	ES	
103	JAN RM	SV-SR	150 Coved	PT-1	PT-1	PT-1	PT-1	PT-1	Stainless steel backsplash 1200 High at Janitor Sink
104	WC	SV-SR	150 Coved	PT-1	PT-1	PT-1	PT-1	PT-1	
105	WC	SV-SR	150 Coved	PT-1	PT-1	PT-1	PT-1	PT-1	
106	HC WC	SV-SR	150 Coved	PT-1	PT-1	PT-1	PT-1	PT-1	
107	VEHICLE MAINTENANCE GARAGE	SC	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	
108	GARAGE WORK BAY	SC	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	
109	GARAGE STORAGE	SC	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	
110	GENERAL WORKSHOP & TOOL STOR	SC	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	
111	METAL WORK AND WELDING SHOP	SC	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	
112	WELDING WORK BAY	SC	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	
113	CARPENTRY WORK BAY	SC	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	
114	CARPENTRY SHOP	SC	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	
115	MECH RM	SC	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	
116	ELEC RM	SC	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	
117	LAN RM	SC	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	
200	CORRIDOR	SV	RB-2	PT-1	PT-1	PT-1	PT-1	ACT	
202	MEETING ROOM	SV	RB-2	PT-1	PT-1	PT-1	PT-3	ACT	Provide vertical blinds to all windows
203	OFFICE	SV	RB-2	PT-1	PT-1	PT-1	PT-1	ACT	Provide vertical blinds to all windows
204	PHOTOCOPY RM	SV	RB-2	PT-3	PT-1	PT-1	PT-1	ACT	
205	GENERAL OFFICE	SV	RB-2	PT-1	PT-1	PT-1	PT-1	ACT	Provide vertical blinds to all windows
206	OFFICE	SV	RB-2	PT-1	PT-1	PT-1	PT-1	ACT	Provide vertical blinds to all windows
207	HC WC	SV-SR	150 Coved	PT-1	PT-1	PT-1	PT-1	PT-1	
208	SHOWER	SV-SR	150 Coved	PT-1	PT-1	PT-1	PT-1	PT-1	
209	LOCKER RM	SV-SR	150 Coved	PT-1	PT-1	PT-1	PT-1	PT-1	
210	PLATFORM	SC	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	
211	PLATFORM	SC	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	
212	COMPRESSOR RM	SC	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	
A1	STAIR A	RT/SV	RB-2	PT-1	PT-1	PT-1	PT-1	PT-1	Stair Tread = Rubber Tile, Landings = Rubber Tile
A2	STAIR A	RT/SV	RB-2	PT-1	PT-1	PT-1	PT-1	PT-1	Stair Tread = Rubber Tile, Landings = Rubber Tile
A3	STAIR A	RT/SV	RB-2	PT-1	PT-1	PT-1	PT-1	PT-1	Stair Tread = Rubber Tile, Landings = Rubber Tile
B1	STAIR B	RT/SV	RB-2	PT-1	PT-1	PT-1	PT-1	PT-1	Stair Tread = Rubber Tile, Landings = Rubber Tile
B2	STAIR B	RT/SV	RB-2	PT-1	PT-1	PT-1	PT-1	PT-1	Stair Tread = Rubber Tile, Landings = Rubber Tile, Contrasting Painted Textured Tactile Warnign Mat (Top of Stair)
C1	STAIR C	RT/SV	RB-2	PT-1	PT-1	PT-1	PT-1	PT-1	Stair Tread = Rubber Tile, Landings = Rubber Tile
C2	STAIR C	RT/SV	RB-2	PT-1	PT-1	PT-1	PT-1	PT-1	Stair Tread = Rubber Tile, Landings = Rubber Tile, Contrasting Painted Textured Tactile Warnign Mat (Top of Stair)
D1	STAIR D	RT/SV	RB-2	PT-1	PT-1	PT-1	PT-1	PT-1	Stair Tread = Rubber Tile, Landings = Rubber Tile
D2	STAIR D	RT/SV	RB-2	PT-1	PT-1	PT-1	PT-1	PT-1	Stair Tread = Rubber Tile, Landings = Rubber Tile

Grand total: 43

FINISHES LEGEND

FLOORING:

SV SHEET VINYL FLOORING
- JOHNSONITE MELODIA 2.0 - 968 Anchor SG

SV-SR SHEET VINYL FLOORING - SLIP RESISTANT
- ALTRO DESIGNER 25 - D25153 Fog

SC SEALED CONCRETE

RT RUBBER TREAD W/ RAISED RUBBER PROFILE & WARNING STRIPS
-JOHNSONITE VIHT - 71 STORM CLOUD W/ CONTRASTING TACTILE WARNING STRIP COLOUR TBD

NOTE: THRESHOLD TO BE PROVIDED WHERE FLOOR MATERIAL CHANGES BETWEEN ROOM OR AREAS

WALL BASE:

RB-1 RUBBER WALL BASE
- JOHNSONITE 71 STORM CLOUD

RB-2 RUBBER WALL BASE
- JOHNSONITE 63 BURNT UMBER

PAINT FINISHES:

PT-1 PAINT - DULUX WHITE MOUNTAIN A0142

PT-2 PAINT - DULUX WEST COAST GREY A1943

PT-3 PAINT - DULUX PRINCE EDWARD ISLE A1236

PT-4 PAINT - DULUX CHARCOAL SLATE A2006

MILLWORK FINISHES:

CABINET FRONTS / EXPOSED EXTERIOR PANELS - WOOD VENEER - NATURAL BIRCH. CONTRACTOR TO PROVIDE SAMPLES FOR CLIENT/ARCHITECT REVIEW

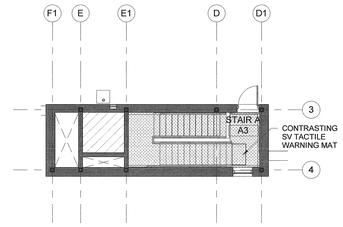
CABINET INTERIOR SHELVES - FORMICA DOVER WHITE LAMINATE

COUNTER TOP MATERIALS
- STAINLESS STEEL TYPICAL
- FORMICA DOGBONE WHITE LAMINATE RMs 202 AND 204

FINISHES NOTES

REFER TO ASSOCIATED SPECIFICATION SECTIONS FOR ADDITIONAL DETAIL / REQUIREMENTS PERTAINING TO BUILDING FINISHES

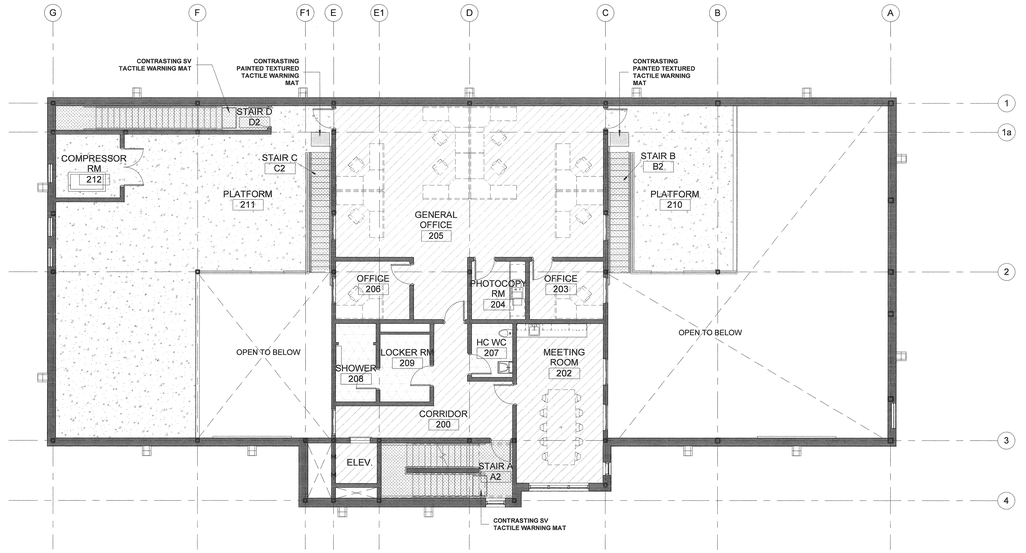
1. ALL INTERIOR METAL GUARD RAILS, METAL HANDRAILS AND EXPOSED STEEL STAIR ELEMENTS TO BE PAINTED PT-2.
2. ALL EXPOSED METAL DECK AND RELATED STRUCTURAL MEMBERS TO BE PAINTED PT-1.
3. ALL INTERIOR PRESSED STEEL FRAMES AND PRESSED STEEL DOORS TO BE PAINTED PT-2.
4. ALL EXTERIOR PRESSED STEEL FRAMES AND PRESSED STEEL DOORS TO BE PAINTED PT-4.
5. PLANS WITH DASHED LINE - - - - - - - - RECEIVE FIRE-TREATED PLYWOOD FINISH TO 2440 ABOVE FINISHED FLOOR. REFER TO FINISH SCHEDULE FOR PAINT COLOUR.



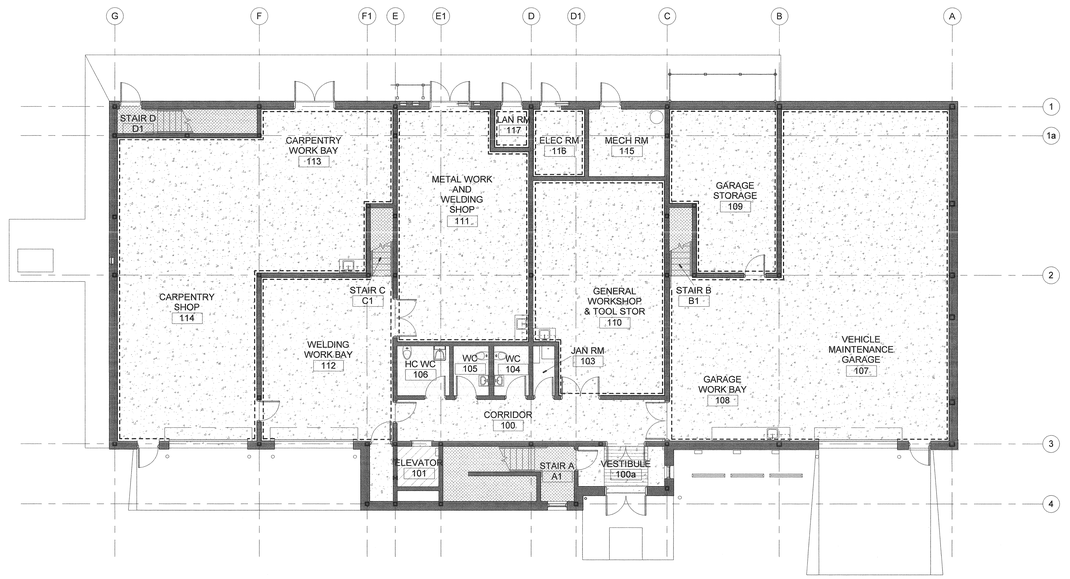
3 / A902 LOWER ROOF PLAN
1 : 100

FINISHES LEGEND

- RT/SV
- SC
- SV
- SV-SR
- Calculating...



2 / A902 UPPER FLOOR PLAN
1 : 100



1 / A902 MAIN FLOOR PLAN
1 : 100

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

DGBK

Revision/ Revision	Description/Description	Date/Date
0	ISSUE FOR TENDER	2018-05-02

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
ROGER GREEN

Drawn by/Dessine par
RG/KL

PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PREETIPAUL PAUL

Drawing title/Titre du dessin

FINISHES SCHEDULES

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	A902	0

PWGSC – AO – 1189X841

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

4/30/2018 9:39:07 AM

STM MH'S	
MH	Details
D1	HEADWALL INV (NE) = 6.05
D2	RIM EL = 7.65 1050mmø INV (NE) = 6.27 INV (E) = 6.29 INV (NW) = 6.27 INV (SW) = 6.24
D3	RIM EL = 8.25 600mmø INV (SW) = 6.68
D4	RIM EL = 7.70 600mmø INV (SE) = 6.46

SAN MH'S	
MH	Details
S1	RIM EL = 8.22 1050mmø INV (N) = 6.67 INV (W) = 6.75 INV (NE) = 6.74 INV (NW) = 6.74 INV (E) = 6.64
S2	RIM EL = 8.81 1050mmø INV (NW) = 7.32 INV (SW) = 7.27
S3	RIM EL = 8.39 1050mmø INV (N) = 7.61 INV (S) = 7.61 INV (SE) = 7.55

EXISTING (PLUG AND REMOVE AFTER NEW MAIN IS IN SERVICE)

EXISTING TO REMAIN

EXISTING TO REMAIN

EXISTING (PLUG AND REMOVE AFTER NEW MAIN IS IN SERVICE)

SYMBOL		DESCRIPTION
EXISTING	PROPOSED	
		CATCHBASIN-ROUND GRATE
		CATCHBASIN MANHOLE
		SANITARY MANHOLE
		SWALE
D	D	STORM
S	S	SANITARY
W	W	WATER
		CAP
		GATE VALVE
		HYDRANT
G	G	GAS
C	C	UNDERGROUND COMMUNICATION
H	H	UNDERGROUND HYDRO
E	E	UNDERGROUND ELECTRICAL
		POWER POLE / ANCHOR
		SIGN
		EDGE OF GRAVEL
		EDGE OF PAVEMENT
		FENCE LINE
		TOP OF BANK
		LOT LINE
		TREE
		HEADWALL

EXISTING BUILDING

EXISTING BUILDING

10.166
TREE .25

TIE PROPOSED 26.7mm PE GAS LINES INTO EX. DETAILS AND SPECIFICATIONS AS PER MECHANICAL.

1 – FIRE HYDRANT
1 – UNDER PRESSURE BRANCHING c/w 150ø TEE & 150ø GATE VALVE. SHOP DRAWING TO BE PROVIDED BY CONTRACTOR.
1 – 150ø C900 PVC SPOOL PIECE.

BOLLARDS. SEE SHEET C03 FOR DETAILS

D3 600ø CB

PIPE CROSSING:
WATERMAIN INVERT=7.06m
STORM OBVERT=6.86

1–ROBAR COUPLER
1– 200ø HxF 90° BEND
1–200ø FxH GATE VALVE C/W MECHANICAL JOINT RESTRAINTS.

27.8–200mmø PVC DR18 WAT

D4 600ø CB

200mmø PVC DR35 STM @ 1.00%

200mmø PVC DR35 STM @ 2.07%

D2
1050ø CBMH

150mmø PVC DR35 STM @ 1.77%

PROPOSED BUILDING
SLAB ELEV 8.55m

BUILDING STORM SERVICE AND MANHOLE.
REFER TO MECHANICAL DRAWINGS FOR CONTINUATION.

FULL LENGTH OF 150mmø SAN SERVICE TO BE CONFIRMED BY MECHANICAL COORDINATE LOCATION OF CONNECTION

150mmø SAN SERVICE TO BE CONFIRMED BY MECHANICAL

D1
HEADWALL AS PER LANGLEY CONCRETE TYPE 2 HEADWALL OR APPROVED EQUIVALENT

EX 100mmø SAN FORCEMAIN

4.147
TREE

SANITARY SERVICE @ MIN 2.0% FROM EX. SANITARY MANHOLE.

EX. 200ø PVC CL200 WATER (TO BE CONFIRMED)

EX 250mmø SAN @ 0.50%

S1

S2

S3

1 – 200ø HxF 45° BEND
1 – 200ø FxH 11.25° BEND
C/W MECHANICAL JOINT RESTRAINTS

PROPOSED PE GAS SERVICE. TIE INTO EX. 88.9mm PE GAS LINE. DETAILS, DIAMETER AND SPECIFICATIONS AS PER MECHANICAL.

OVER–BUILD MANHOLE

3386
Elev=8.09m

20.8–200mmø PVC DR18 WAT

17.8–150mmø SAN @ 1.25%

11.49

8.44

5.44

PROPOSED WATERMAIN DIVERSION. EXISTING WATER MAIN TO REMAIN IN SERVICE THROUGHOUT DIVERSION CONSTRUCTION.

2.5–200mmø PVC DR18 WAT

2– 200ø HxH 45° BEND
C/W MECHANICAL JOINT RESTRAINTS

PROPOSED ELECTRICAL AND COMMUNICATIONS. SEE ELECTRICAL CONSULTANT DRAWINGS FOR DETAILS

EXISTING SERVICES TO BE ABANDONED AND REMOVED(TYPICAL)

9.145
TREE .5

9.390
TREE

42.3–150mmø SAN @ 1.25%

29.0–200mmø PVC DR18 WAT

PROPOSED SANITARY DIVERSION.
EXISTING 150ø SAN TO REMAIN IN SERVICE THROUGHOUT SITE SANITARY SEWER DIVERSION WORKS.

1 – 200ø FxHxF TEE
1 – 200ø FxH 22.25° BEND
1 – 200ø FxF 150ø REDUCER
1 – 150ø FxH GATE VALVE
C/W MECHANICAL JOINT RESTRAINTS

8.381
TREE GO 1.7

TIE PROPOSED SERVICE INTO EXISTING WATERMAIN. TIE–IN FITTINGS AND DETAILS TO BE DETERMINED ACCORDING TO MATERIAL OF EXISTING MAIN.
ASSUMED INV 6.71m.
1 – 200ø HxFxH TEE
1 – 200ø FxH GATE VALVE C/W FLANGE.
1 – 200ø CAP
1 – ROBAR COUPLER
C/W MECHANICAL JOINT RESTRAINTS

17.4–200mmø PVC DR18 WAT

EX. FIRE HYDRANT
KIOSK

EX. SMH
RIM 7.90
INV 6.34

7.917
TREE .7 GO

WATERMAIN NOTES:

1. MINIMUM VERTICAL SEPARATION BETWEEN A WATERMAIN AND ANY PIPE SHALL BE 0.15m. WHERE WATERMAIN CROSSES OVER A STORM/SANITARY PIPE WITH LESS THAN 0.50m VERTICAL SEPARATION WRAP ALL WATERMAIN JOINTS WITHIN 3.0m OF THE CROSSING. WHERE A WATERMAIN CROSSES UNDER A STORM/SANITARY PIPE WRAP ALL WATERMAIN, STORM AND SANITARY JOINTS INCLUDING TEES, BENDS, CROSSES, REDUCERS, VALVES ETC. WITHIN 6.0m OF THE CROSSING AS WELL AS ANY EXPOSED STORM/SANITARY JOINTS. WRAP ALL WATERMAIN JOINTS WITH LESS THAN 3.0m HORIZONTAL SEPARATION TO ANY STORM/SANITARY PIPE. JOINT WRAP SHALL MEET OR EXCEED THE BC MINISTRY OF HEALTH REQUIREMENTS FOR WATERMAIN JOINT PROTECTION AND AWWA/ANSI STANDARD C209. (CANUS "JointWrap" COLD APPLIED PIPE JOINT SLEEVE, OR EQUAL).
2. ALL WATER MAIN FITTINGS SHALL BE COMPLETE WITH MECHANICAL JOINT RESTRAINTS AND/OR CONCRETE THRUST BLOCKS.

BEFORE YOU DIG

THE LOCATION OF THE EXISTING UTILITIES HAS BEEN SHOWN BASED ON AVAILABLE INFORMATION. THE ACCURACY AND COMPLETENESS OF THE DRAWING IN THIS RESPECT IS NOT GUARANTEED. THE EXACT LOCATION OF THESE UTILITIES AND SERVICES SHALL BE DETERMINED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ALL CONFLICTS TO BE IMMEDIATELY REPORTED TO WEDLER ENGINEERING

SCALE = 1:150

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

PWGSC – AG – 1000x841

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

WEDLER ENGINEERING

Revision/ Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	18-05-02

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 WILLIAM HEAD ROAD,
METCHOSIN, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
TJD/SBR

Drawn by/Dessiné par
CALEB JARVIS

PWGSC Project Manager/Administrateur de Projets TPSGC
DIANNE DY, ARCHITECT AIBC, LEED AP

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architecture et de génie, TPSGC

Drawing title/Titre du dessin

SITE SERVICING PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./ Le Révision no.
R.069377.001	C01 OF 3	0

BEFORE YOU DIG

THE LOCATION OF THE EXISTING UTILITIES HAS BEEN SHOWN BASED ON AVAILABLE INFORMATION. THE ACCURACY AND COMPLETENESS OF THE DRAWING IN THIS RESPECT IS NOT GUARANTEED. THE EXACT LOCATION OF THESE UTILITIES AND SERVICES SHALL BE DETERMINED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ALL CONFLICTS TO BE IMMEDIATELY REPORTED TO WEDLER ENGINEERING

GRADING LEGEND

EXISTING CONTOURS

PROPOSED CONTOURS

EXISTING GRADE ELEVATION (5.60)

PROPOSED GRADE ELEVATION (8.20)

LOT GRADING 2.71%

SYMBOL EXISTING	SYMBOL PROPOSED	DESCRIPTION
		CATCHBASIN-ROUND GRATE
		CATCHBASIN MANHOLE
		SANITARY MANHOLE
		SWALE
D	D	STORM
S	S	SANITARY
W	W	WATER
		CAP
		GATE VALVE
		HYDRANT
G	G	GAS
C	C	UNDERGROUND COMMUNICATION
H	H	UNDERGROUND HYDRO
E	E	UNDERGROUND ELECTRICAL
		POWER POLE / ANCHOR
		SIGN
		EDGE OF GRAVEL
		EDGE OF PAVEMENT
		FENCE LINE
		TOP OF BANK
		LOT LINE
		TREE
		HEADWALL

PAVEMENT STRUCTURE AS PER GEOTECHNICAL REPORT

PROPOSED PAVEMENT MARKINGS AS PER ARCHITECT, REFER TO SPECIFICATION 32 17 23

PROPOSED FINISHED GRADE ELEVATION (TYPICAL).

EXISTING ELEVATIONS (TYPICAL)

EXISTING CONTOURS W/ LABEL (TYPICAL)

REMOVE EXISTING PAVEMENT MARKINGS

GRIND, TACK COAT AND RE-PAVE EX PAVEMENT EDGE, 200mm MIN. WIDE STRIP PER EDGE DETAIL OF PAVEMENT RESTORATION DETAIL "PERMANENT", SHEET C03

WITHIN CROSSED HATCHED AREA, REMOVE AND DISPOSE OF EXISTING PAVING TO SUBGRADE OF NEW PAVED STRUCTURE.

SAWCUT EXISTING CURB AND REMOVE CURB TO SOUTH OF CUT

EXISTING BUILDING

PROPOSED BUILDING SLAB ELEV 8.55m

FOR CURB DETAILS, REFER TO SHEET C03

FOR WHEEL STOP DETAILS, SEE DETAIL SHEET C03

PROPOSED 2:1 CUT (TYPICAL)

TRANSITION FROM 2:1 TO 4:1 SLOPE

PROPOSED 4:1 CUT (TYPICAL)

CONCRETE SIDEWALK SUB-STRUCTURE AS PER STRUCTURAL ENGINEER

SWALE (TYPICAL) AS PER DETAIL SHEET C03

ALL DISTURBED AREAS TO BE TOPSOILED AND SEEDED AS PER SPECIFICATION 31 00 99 & 32 92 19.13

ALL CUT & FILL SLOPES TO BE AT 4:1 (H:V) EXCEPT AS NOTED (TYPICAL)

PROPOSED 4:1 FILL SLOPE(TYPICAL)

PROPOSED 4:1 CUT (TYPICAL)

PROPOSED DITCH DAYLIGHT FROM HEADWALL D1 TO EXISTING GROUND. TO BE MIN. 0.5m DEEP WITH 4:1 SIDE SLOPES AND 0.5m WIDE BOTTOM

SCALE = 1:100

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

PWGSC – AO – 1000x841

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

WEDLER ENGINEERING

Revision/ Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	18-05-02

Client/Client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 WILLIAM HEAD ROAD, METCHOSIN, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
TJD/SBR

Drawn by/Dessine par
CALEB JARVIS

PWGSC Project Manager/Administrateur de Projets TPSGC
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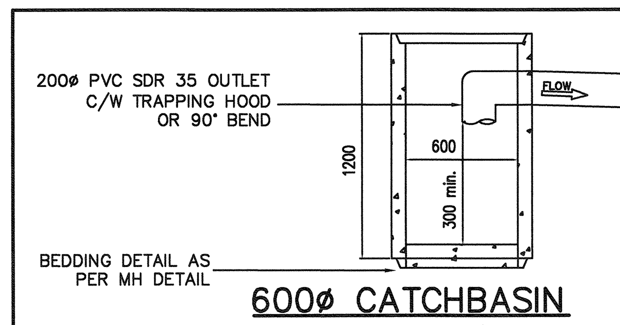
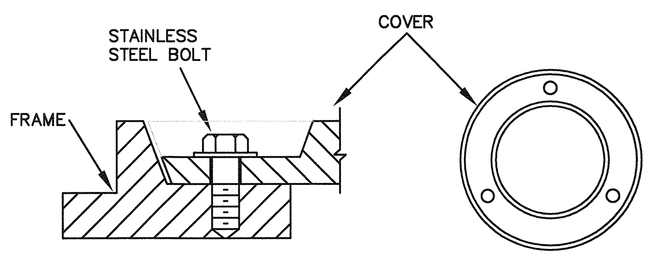
SITE GRADING PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R.069377.001	C02 OF 3	0



600ø CATCHBASIN

STANDARD 600 CATCHBASIN c/w SLOTTED LID
TO ASTM C478 OR APPROVED EQUIVILENT
NOT TO SCALE

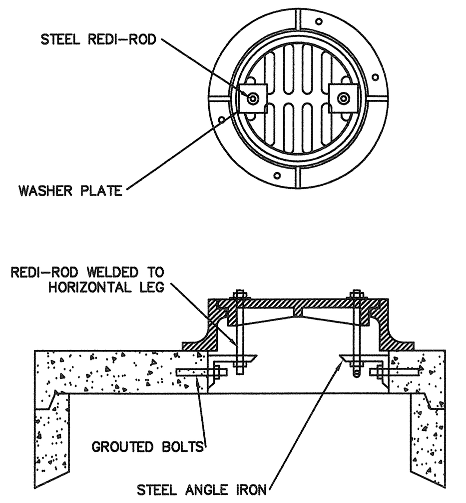


SECURITY MANHOLE & CATCHBASIN COVER DETAIL

NOT TO SCALE

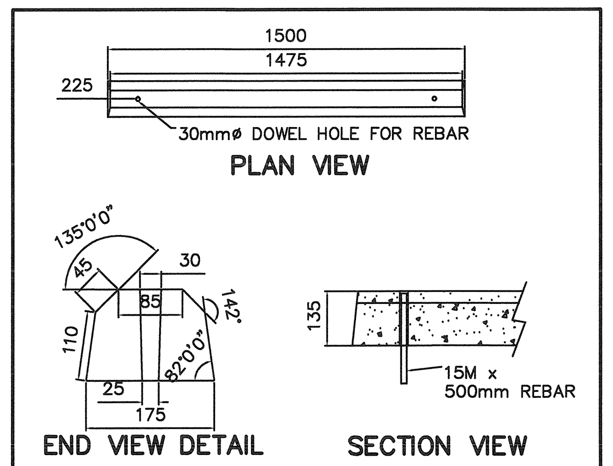
*NOTES
1. PROPRIETARY PRODUCTS ACHIEVING SAME FUNCTION ARE ACCEPTABLE SUBJECT TO APPROVAL OF DEPARTMENTAL REPRESENTATIVE.

2. FOR GRATED COVERS, AN ACCEPTABLE ALTERNATIVE TO THE ABOVE DETAIL IS AS SHOWN BELOW.



SCHEMATIC CB, CBMH & LAWN DRAIN COVER GRATED LOCKING SYSTEM

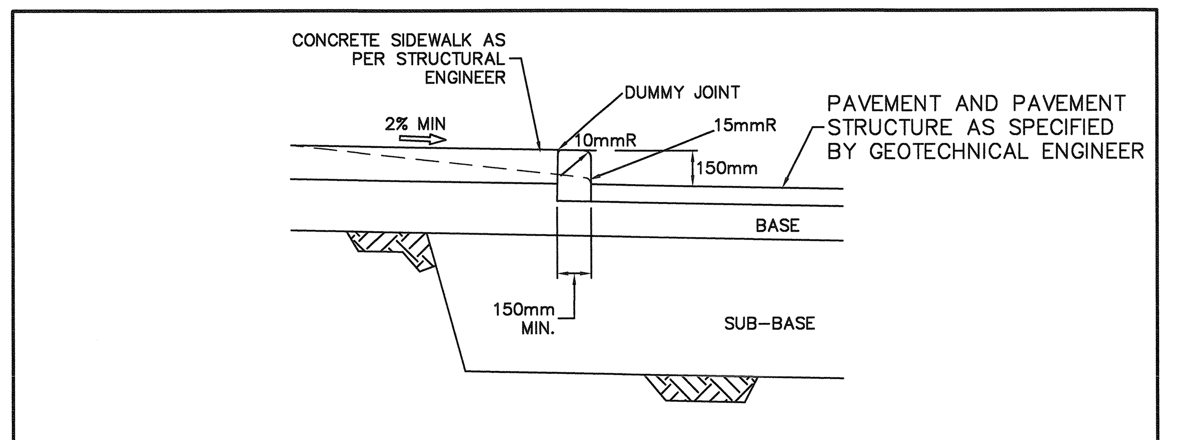
NOT TO SCALE
(CONTRACTOR TO PROVIDE SHOP DRAWING SUBMITTAL FOR APPROVAL)



Notes:
1. All edges to have fillet radius of 5mm.
2. Pin holes to be 225mm from ends as shown.
3. Pin holes to have taper as shown.
4. Reinforced w/ 4 – D5.
5. Approx. weight: 95 kg.
6. Min. concrete strength: 34.5 MPa.

PARKING WHEEL STOP DETAIL

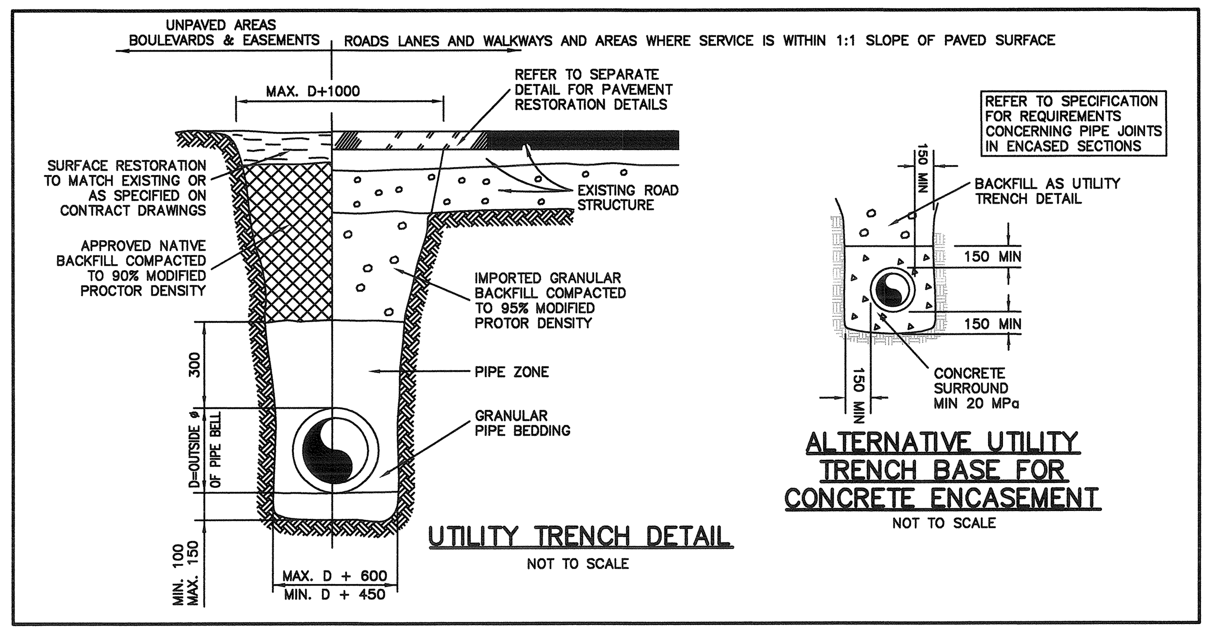
NOT TO SCALE



CURB DETAIL

N.T.S.

TRAVERSE JOINTS SPACING AS PER MMCD STD DWG C2

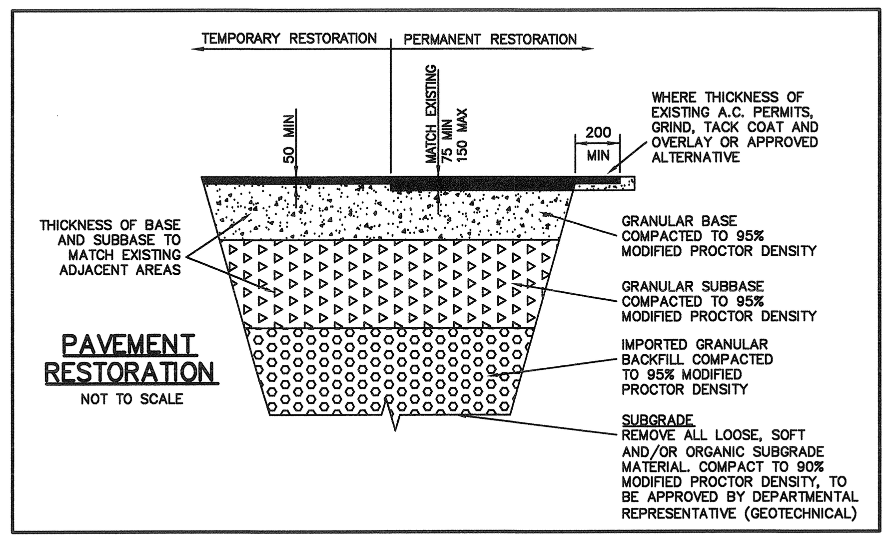


UTILITY TRENCH DETAIL

NOT TO SCALE

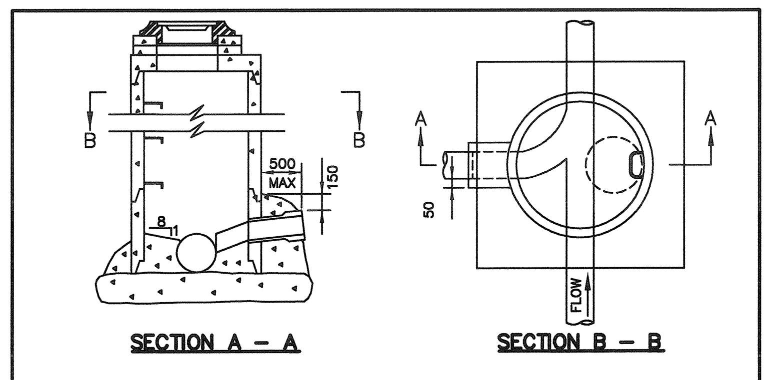
ALTERNATIVE UTILITY TRENCH BASE FOR CONCRETE ENCASEMENT

NOT TO SCALE



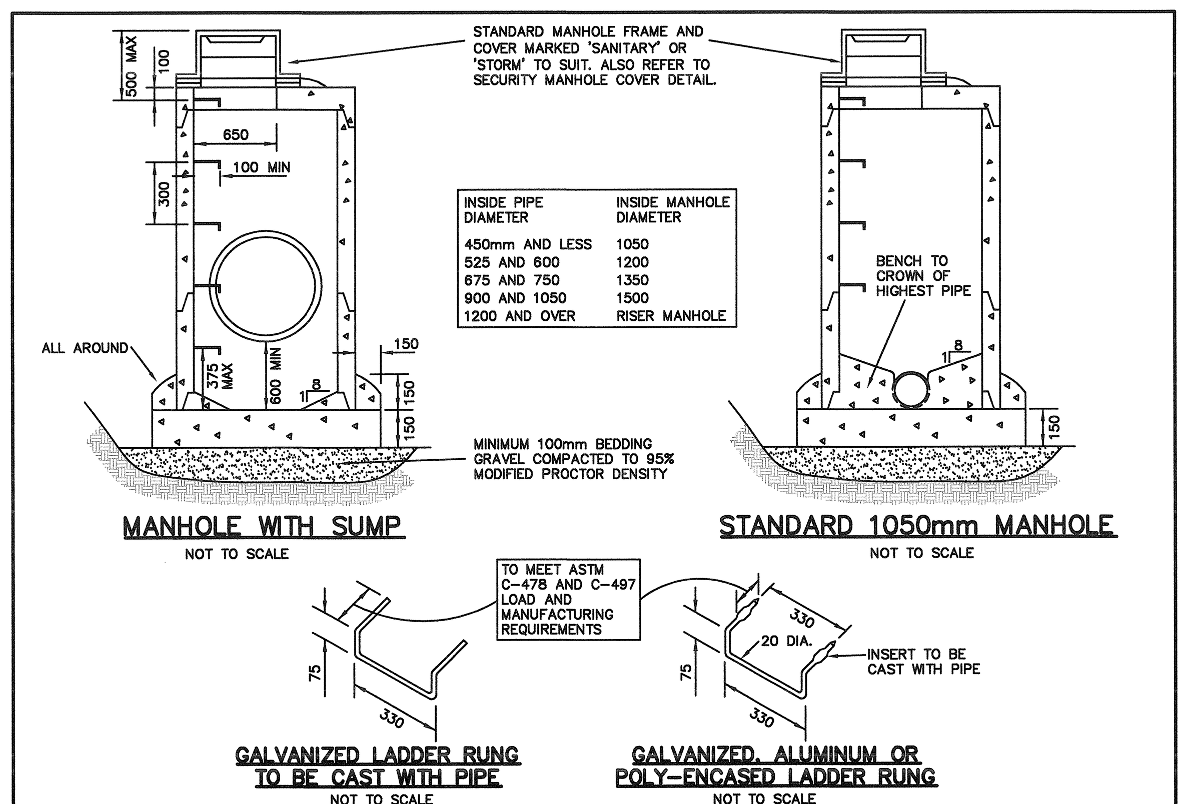
PAVEMENT RESTORATION

NOT TO SCALE



STANDARD MANHOLE TYPICAL CONNECTION DETAIL

NOT TO SCALE



INSIDE PIPE DIAMETER	INSIDE MANHOLE DIAMETER
450mm AND LESS	1050
525 AND 600	1200
675 AND 750	1350
900 AND 1050	1500
1200 AND OVER	RISER MANHOLE

MANHOLE WITH SUMP

NOT TO SCALE

STANDARD 1050mm MANHOLE

NOT TO SCALE

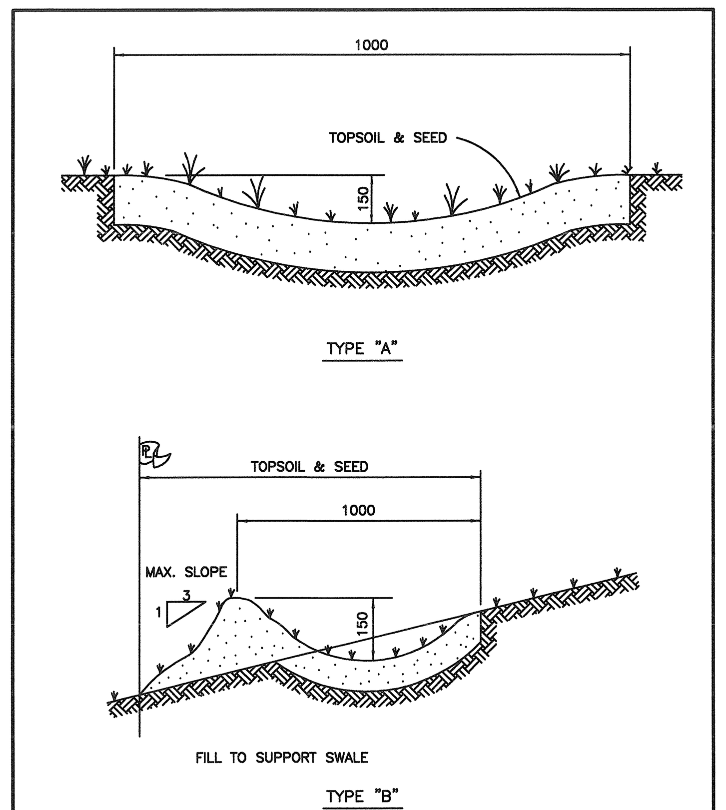
GALVANIZED LADDER RUNG TO BE CAST WITH PIPE

NOT TO SCALE

GALVANIZED, ALUMINUM OR POLY-ENCASED LADDER RUNG

NOT TO SCALE

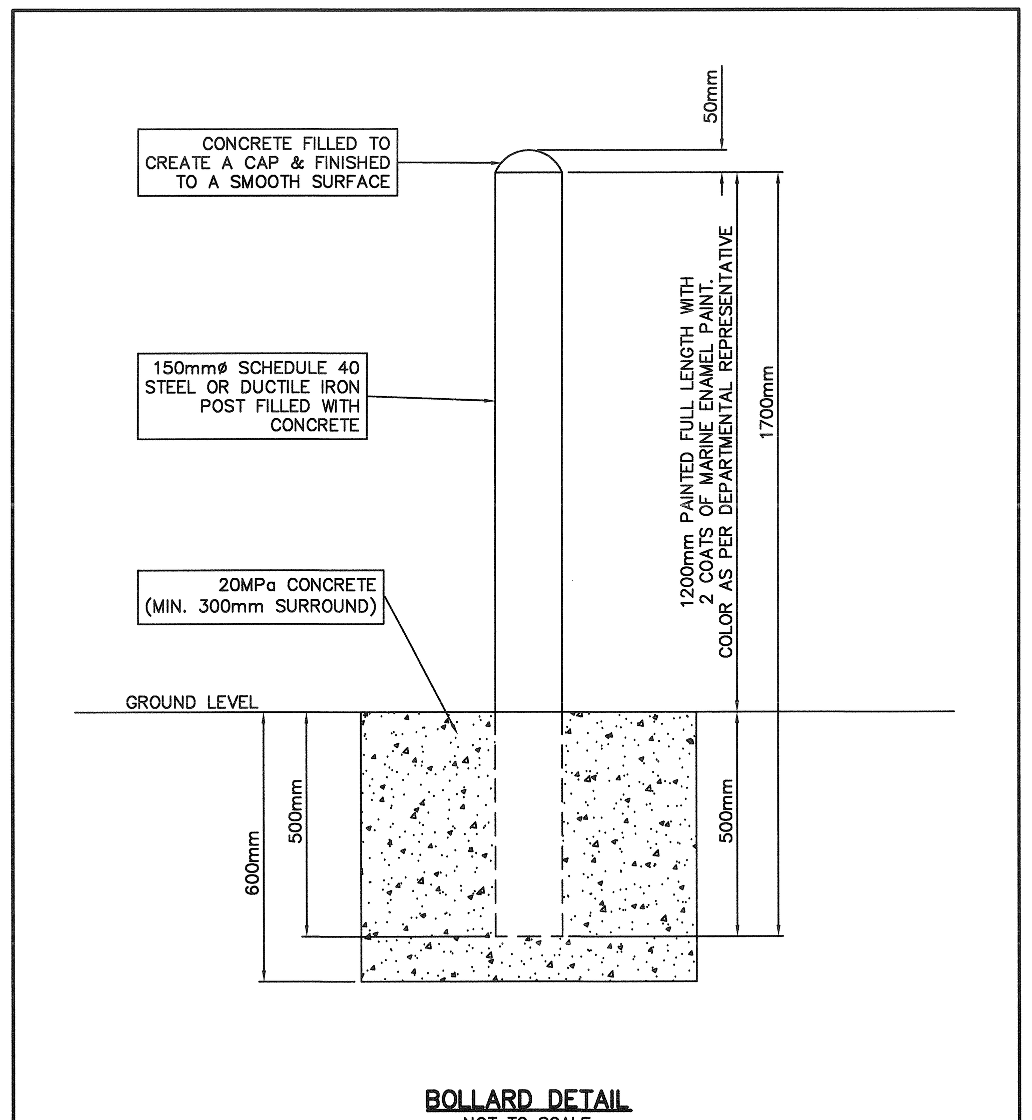
1. DETAILS ARE DRAWN FOR PRECAST RISERS ON CAST-IN-PLACE BASE. PRECAST BASES APPROVED BY CONTRACT ADMINISTRATOR ARE ACCEPTABLE
2. MAXIMUM DEPTH TO FIRST RUNG IS 500mm. WHEN HANDHOLD IS INSTALLED BETWEEN TOP AND FIRST RUNG, MAXIMUM DEPTH MAY BE INCREASED TO 660mm.
3. FOR MANHOLES OVER 1200mm DIAMETER BASE THICKNESS TO BE 200mm.
4. REFER TO SEPARATE DETAIL FOR CONNECTION DETAILS.



1. TOPSOIL PER SPECIFICATION 31 00 99.
2. MECHANICAL SEED PER SPECIFICATION 32 92 19.13

SWALE DETAIL

NOT TO SCALE



BOLLARD DETAIL

NOT TO SCALE

NOTES

GENERAL

1. THE GOVERNING JURISDICTION FOR THIS PROJECT IS PUBLIC WORKS AND GOVERNMENT SERVICES CANADA ON BEHALF OF CORRECTIONAL SERVICE CANADA.
2.
3. FOR SITE DIMENSIONS, REFER TO LEGAL SURVEY PLANS. FOR BUILDING LAYOUT DIMENSIONS, REFER TO ARCHITECTURAL PLANS. ALL ELEVATIONS ARE SHOWN IN METERS RELATED TO GEODETIC SURVEY OF CANADA. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE SHOWN IN METERS AND ALL PIPE DIAMETERS ARE SHOWN IN MILLIMETERS.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TO WEDLER ENGINEERING A DIGITAL VIDEO AND PHOTOGRAPHIC RECORD IDENTIFYING ANY AND ALL EXISTING FEATURES TO BE DISTURBED. THE CONTRACTOR SHALL RESTORE ALL DISTURBED PAVEMENT, CURBS, SIDEWALKS, BOULEVARDS, LANDSCAPING, FENCES OR ANY OTHER FEATURES AFFECTED BY THE WORK IN COMPLIANCE WITH THE SPECIFICATIONS AND ANY RECOMMENDATIONS OF THE DEPARTMENTAL REPRESENTATIVE AND TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
5. THE CONTRACTOR MUST CONTACT THE DEPARTMENTAL REPRESENTATIVE PRIOR TO CONSTRUCTION TO SCHEDULE A PRE-CONSTRUCTION MEETING.
6. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENTAL REPRESENTATIVE A MINIMUM OF 2 WORKING DAYS PRIOR TO REQUIRED INSPECTIONS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
   A) MOBILIZATION
   B) DURING PIPE LAYING
   C) DURING CONSTRUCTION OF DETENTION FACILITIES
   D) DURING PREPARATION OF PAVEMENT STRUCTURE
   E) TESTING OF ALL UTILITIES
   F) AFTER COMPLETION OF ALL WORK
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT. CONFIRM BENCH MARK OR TEMPORARY BENCH MARK PRIOR TO CONSTRUCTION. ADVISE DEPARTMENTAL REPRESENTATIVE OF ANY DISCREPANCIES.
6. ANY VARIATIONS FROM THE PROPOSED WORK MUST BE APPROVED IN WRITING BY THE DEPARTMENTAL REPRESENTATIVE. FAILURE TO NOTIFY IN ADVANCE MAY RESULT IN REJECTION OF THE WORK. SUBSTITUTION OF ANY SPECIFIED MATERIALS, PRODUCTS OR EQUIPMENT WITH AN APPROVED EQUAL OR APPROVED EQUIVALENT WILL BE PERMITTED ONLY WITH THE EXPRESS WRITTEN APPROVAL OF THE DEPARTMENTAL REPRESENTATIVE, AT ITS DISCRETION.
7. THE CONTRACTOR SHALL ADJUST THE TOPS OF ALL ACTIVE MANHOLES, CATCH BASINS, VALVE BOXES, ETC. AS REQUIRED TO MATCH NEW GRADING.
8. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY AT THE PLACE OF WORK AS AND TO THE EXTENT REQUIRED BY APPLICABLE CONSTRUCTION SAFETY LEGISLATION, REGULATIONS AND CODES, AND BY GOOD CONSTRUCTION PRACTICE. THE CONTRACTOR SHALL PERFORM ITS WORKS IN STRICT COMPLIANCE WITH THE REQUIREMENTS, RULES, REGULATIONS AND BY-LAWS OF ANY FEDERAL, PROVINCIAL OR MUNICIPAL AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL APPLY FOR AND OBTAIN ALL REQUIRED PERMITS.
9. THE CONTRACTOR SHALL MAINTAIN AND REPAIR ALL PUBLIC AND PRIVATE ROADS AFFECTED BY THE WORK AND ARRANGE FOR ADEQUATE STREET CLEANING DURING WORKING DAYS.
10. THE CONTRACTOR SHALL PREPARE A TRAFFIC MANAGEMENT PLAN FOR APPROVAL BEFORE START OF CONSTRUCTION. TRAFFIC MANAGEMENT PLAN TO BE IN ACCORDANCE WITH THE GOVERNING JURISDICTION'S REGULATIONS. AS A MINIMUM, ONE LANE TRAFFIC MUST BE MAINTAINED AND KEPT OPEN AT ALL TIMES.
11. THE CONTRACTOR SHALL CARRY OUT THE WORK SO AS TO MINIMIZE THE INCONVENIENCE TO THE PUBLIC. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SERVICES AND ACCESS TO RESIDENCES AND BUSINESSES AT ALL TIMES FOR VEHICLES AND PEDESTRIANS. ANY DISRUPTIONS THAT ARE UNAVOIDABLE WILL REQUIRE A MINIMUM NOTICE OF 2 WORKING DAYS BE GIVEN TO THE DEPARTMENTAL REPRESENTATIVE.
12. IN ADDITION TO OTHER SPECIFIED REQUIREMENTS FOR RECORD, OPERATIONS AND MAINTENANCE INFORMATION THE CONTRACTOR SHALL RECORD ON A CURRENT SET OF PLANS IN A NEAT MANNER, ALL CHANGES, ADDITIONS AND DELETIONS TO REFLECT THE "AS CONSTRUCTED" INSTALLATION. THIS SET OF PLANS SHALL BE RETURNED TO THE DEPARTMENTAL REPRESENTATIVE AT THE COMPLETION OF THE WORKS AND PRIOR TO THE ISSUANCE OF SUBSTANTIAL PERFORMANCE. ANY ADDITIONAL SURVEY REQUIRED TO COMPLETE THE RECORD DRAWINGS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

EXISTING STRUCTURES, UTILITIES AND PROPERTIES

1. **INFORMATION ON THE DRAWINGS REGARDING EXISTING UTILITIES WAS COMPILED FROM RECORD DRAWINGS, CONSTRUCTION DRAWINGS AND FIELD SURVEYS. THIS INFORMATION IS NOT NECESSARILY ACCURATE OR COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DATA BY EXPOSURE BEFORE ANY CONSTRUCTION AND TO IMMEDIATELY REPORT ANY DISCREPANCIES TO THE DEPARTMENTAL REPRESENTATIVE. BEFORE CONSTRUCTION, ALL TIE-IN INVERTS SHALL BE CONFIRMED, AND EXPOSURES PERFORMED WHERE THERE IS POTENTIAL FOR CONFLICTS BETWEEN EXISTING AND PROPOSED SERVICES. ANY COSTS RESULTING FROM THE CONTRACTOR'S FAILURE TO DO SO SHALL BE AT THE CONTRACTOR'S EXPENSE.**
2. **BEFORE CONSTRUCTION THE CONTRACTOR SHALL ASCERTAIN FOR HIMSELF THE EXACT LOCATION OF BOUNDARIES OF PROPERTIES, RIGHTS-OF-WAY OR EASEMENTS. ANY COST RESULTING FROM SPECIAL CONSTRUCTION METHODS, EQUIPMENT OR MATERIALS REQUIRED TO PERFORM THE WORK WITHOUT ENCROACHING ON OR CAUSING DAMAGE TO OTHER PROPERTY, SHALL BE INCLUDED IN THE CONTRACT PRICE, AND NO ADDITIONAL PAYMENT WILL BE MADE FOR SUCH COSTS.**

COORDINATION WITH OTHER WORK

1. CONTRACTOR TO IMMEDIATELY REPORT TO THE DEPARTMENTAL REPRESENTATIVE ANY CONFLICTS, DISCREPANCIES, ETC. BETWEEN WORKS SHOWN ON CIVIL ENGINEERING PLANS AND WORKS SHOWN ON ANY OTHER PLANS.

WATERWORKS

1. THE COMPLETED SERVICE SHALL BE DISINFECTED ACCORDING TO AWWA STANDARD C651, OR LATEST REVISION THEREOF.
2. CURRENT PROCEDURES OF THE GOVERNING JURISDICTION FOR ACCEPTANCE AND TIE-IN OF NEW WATERMAINS SHALL BE FOLLOWED.

STORM SEWERS & SANITARY SEWERS

1. THE PIPE DISTANCES SHOWN ON STORM AND SANITARY SEWER DRAWINGS ARE MEASURED HORIZONTALLY FROM MANHOLE CENTERLINE TO MANHOLE CENTERLINE.

QUALITY CONTROL

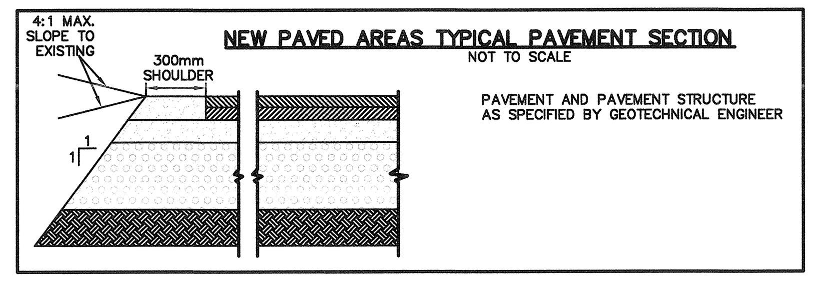
1. ALL TESTING SHALL BE PERFORMED BY INDEPENDENT AND CERTIFIED TESTING AGENCIES AT THE CONTRACTOR'S COST.
2. ALL REQUIRED TESTING OF THE SUBGRADE, EMBANKMENT, BACKFILL, GRANULAR MATERIALS, COMPACTION, CONCRETE, ASPHALT, GROWING MEDIUM, ETC. IS THE RESPONSIBILITY OF THE CONTRACTOR AND AT THE CONTRACTOR'S COST.
3. ALL CLEANING, FLUSHING, PRESSURE AND LEAKAGE TESTING, VIDEO INSPECTION, DISINFECTION AND BACTERIOLOGICAL TESTING AS REQUIRED FOR WATER, SANITARY AND DRAINAGE SYSTEMS ARE AT THE CONTRACTOR'S COST.
4. MATERIAL TESTS SHALL BE PERFORMED AT THE MINIMUM FREQUENCIES / INTERVALS AS PER SPECIFICATIONS.

GEOTECHNICAL AND GEOSYNTHETICS

1. DESIGN AND CONSTRUCTION OF ALL SLOPES AND RETAINING WALLS TO BE CERTIFIED BY THE GEOTECHNICAL ENGINEER.
2. ALL GEOSYNTHETICS TO BE REVIEWED AND APPROVED BY THE GEOTECHNICAL ENGINEER.

NEW PAVED AREAS TYPICAL PAVEMENT SECTION

NOT TO SCALE



SANITARY SEWER & DRAINAGE SYSTEM

1. ALL MANHOLES AND CATCHBASINS SHALL BE SECURED WITH SPECIAL FASTENINGS TO PREVENT UNAUTHORIZED ENTRY. STANDARD COVERS AND FRAMES TO BE MODIFIED PER STANDARD DETAIL ON THIS SHEET.
1.1. COVERS: DRILL THREE EQUIDISTANT 20mm HOLES NEAR THE PERIMETER TO RECEIVE 16mm STAINLESS STEEL HEXAGON HEAD BOLTS. COUNTERSINK FOR WASHERS AND BOLT HEADS TO ENSURE A FLUSH INSTALLATION.
1.2. FRAME: DRILL AND TAP FRAME TO RECEIVE THE BOLTS FROM THE COVER. PROVIDE LUG WRENCHES.

BEFORE YOU DIG

THE LOCATION OF THE EXISTING UTILITIES HAS BEEN SHOWN BASED ON AVAILABLE INFORMATION. THE ACCURACY AND COMPLETENESS OF THE DRAWING IN THIS RESPECT IS NOT GUARANTEED. THE EXACT LOCATION OF THESE UTILITIES AND SERVICES SHALL BE DETERMINED ON SITE BY THE CONTRACTOR PRIOR TO CONSTRUCTION. SERVICES STATED TO BE ABANDONED OR REMOVED ARE TO BE VERIFIED BY THE CONTRACTOR. ALL CONFLICTS TO BE IMMEDIATELY REPORTED TO PUBLIC WORKS & GOVERNMENT SERVICES CANADA AND WEDLER ENGINEERING

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

WEDLER ENGINEERING

PROFESSIONAL ENGINEER, PROVINCE OF BRITISH COLUMBIA, S. B. ROGERS # 46… 2018-04-27

Revision/Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	18-05-02

Client/client
CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
6000 WILLIAM HEAD ROAD, METCHOSIN, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
TJD/SBR

Drawn by/Dessine par
CALEB JARVIS

PWGSC Project Manager/Administrateur de Projets TPSGC
DIANNE DY, ARCHITECT AIBC, LEED AP

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC

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DETAILS AND NOTES

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.069377.001	C03 OF 3	0

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

GENERAL

1. THIS SET OF DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE STRUCTURAL SPECIFICATIONS AND WITH THE DRAWINGS AND SPECIFICATIONS FROM ALL OTHER CONSULTANTS. ANY DISCREPANCIES NOTED SHALL BE REPORTED IMMEDIATELY FOR CLARIFICATION.

2. THIS SET OF DRAWINGS SHOWS THE COMPLETED STRUCTURE AND DOES NOT SHOW WORK WHICH MAY BE REQUIRED FOR SAFETY DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR GENERAL SAFETY ON AND ABOUT THE JOB SITE DURING THE CONSTRUCTION PERIOD AND FOR DESIGN AND ERECTION OF ALL FALSEWORK, SHORING, BRACING ETC. TO ENSURE THE SAFETY OF ALL CONSTRUCTION TEMPORARY LOADS AND TO COMPLETE THE WORK, ADHERE STRICTLY TO ALL REQUIREMENTS OF THE WORKERS' COMPENSATION BOARD OF BRITISH COLUMBIA. ALL TEMPORARY WORKS AND SHORING ETC. SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN BRITISH COLUMBIA.

3. ALL CODE REFERENCES ARE TO LATEST EDITIONS AS REFERENCED IN THE NBC 2015.

4. REFER TO SPECIFICATIONS FOR ALL MATERIAL SPECIFICATIONS AND CODE REFERENCES.

FIELD REVIEW:

1. DEPARTMENTAL REPRESENTATIVE THROUGH CWMM CONSULTING ENGINEERS PROVIDES PROVIDES FIELD REVIEW FOR THE WORK SHOWN ON THE STRUCTURAL DRAWINGS PREPARED BY CWMM CONSULTING ENGINEERS LTD. THIS REVIEW IS A PERIODIC REVIEW AT THE PROFESSIONAL JUDGMENT OF CWMM CONSULTING ENGINEERS LTD. THE PURPOSE IS TO ASCERTAIN THAT THE WORK IS IN GENERAL CONFORMANCE WITH THE PLANS AND SUPPORTING DOCUMENTS PREPARED BY CWMM CONSULTING ENGINEERS LTD. AND TO FULFILL THE REQUIREMENTS FOR THE COMPLETION OF LETTERS OF ASSURANCE REQUIRED BY THE APPLICABLE BUILDING CODE.

2. ALL NON-CONFORMING WORKS THAT REQUIRE REMEDIAL ACTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ANY EXTRA TIME OR COST INCURRED TO PWGSC IN RECTIFYING THE WORK SHALL BE BORNE BY THE CONTRACTOR IN ACCORDANCE WITH THE CONTRACT.

3. ENSURE THAT WORK TO BE INSPECTED IS COMPLETE AT THE TIME OF INSPECTION AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. ADDITIONAL INSPECTIONS REQUIRED DUE TO INCOMPLETE WORK OR POORLY EXECUTED WORK, AS JUDGED BY THE DEPARTMENTAL REPRESENTATIVE, AS WELL AS ADDITIONAL DESIGN OR REMEDIAL WORK CAUSED BY DEVIATIONS FROM THESE DRAWINGS, MAY BE CHARGED TO THE CONTRACTOR.

4. A MINIMUM 24 HOURS NOTICE SHALL BE GIVEN TO THE DEPARTMENTAL REPRESENTATIVE BY THE CONTRACTOR FOR ANY INSPECTION TO BE CARRIED OUT.

DESIGN LOADS:

1. THIS STRUCTURE HAS BEEN DESIGNED FOR SNOW, WIND AND SEISMIC FORCES IN ACCORDANCE WITH THE PROVISIONS SET FORTH IN THE NATIONAL BUILDING CODE OF CANADA 2015.
IMPORTANT CATEGORY = NORMAL (AS PER OWNER'S REQUIREMENT)

GROUND SNOW: Ss = 1.1 kPa
RAIN LOAD: Sr = 0.2 kPa

IMPORTANCE FACTORS FOR SNOW Is = 1.0 FOR STRENGTH
Is = 0.9 FOR SERVICEABILITY

WIND LOAD: PROBABILITY 1/10 = 0.44 kPa
PROBABILITY 1/50 = 0.57 kPa

IMPORTANCE FACTORS FOR WIND Iw = 1.0 FOR STRENGTH
Iw = 0.75 FOR SERVICEABILITY

EARTHQUAKE FACTORS:

Sa(0.2)	Sa(0.5)	Sa(1.0)	Sa(2.0)	PGA	PGV
1.32	1.21	0.73	0.44	0.60	0.87

I_E = 1.0 FOR STRENGTH

I_E = 1.0 FOR SERVICEABILITY

(CLAUSE 4.1.8.13 FOR SERVICEABILITY)

$F_{(0.2)}$ = 1.0 $F_{(0.5)}$ = 1.0

R_d = 1.5 R_o = 1.3

SITE CLASS C

2. SPECIFIED UNIFORM SUPERIMPOSED DEAD LOADS ON ROOF AND FLOORS:

ROOF (PLUS BUILT-UP FRAMING WHERE REQUIRED)	0.75 kPa
MAIN FLOOR	1.25 kPa
UPPER FLOOR OFFICE	3.0 kPa
UPPER FLOOR STORAGE	2.0 kPa
MECHANICAL & ELECTRICAL ROOMS (GENERAL)	1.0 kPa
EXTERIOR WALLS	0.5 kPa
	ACTUAL WEIGHT

- UPPER FLOORS AND MAIN FLOOR LOADS INCLUDE GENERAL PARTITION LOAD OF 1.0kPa AND NON-STRUCTURAL CONCRETE TOPPING. FOR MASONRY PARTITIONS, ACTUAL WEIGHTS SHALL BE USED.
- THESE LOADS DO NOT INCLUDE SELFWEIGHT OF STRUCTURE, WEIGHT OF MASONRY PARTITIONS, WEIGHTS OF MECHANICAL EQUIPMENT AND CONCRETE EQUIPMENT PADS.

3. SPECIFIED UNIFORM LIVE LOADS ON FLOORS:

MAIN FLOOR, EXCEPT FOR LOCAL AREAS AS NOTED BELOW	4.8 kPa
UPPER FLOOR OFFICE	2.4 kPa
UPPER FLOOR STORAGE	4.8 kPa
CORRIDORS	4.8 kPa
MECHANICAL	3.6 kPa
STORAGE ROOM	4.8 kPa

4. DESIGN SPECIFIED CONCENTRATED LIVE LOADS ON ROOF AND FLOORS:

ROOF	1.3 kN
MAIN FLOOR/UPPER FLOOR	4.5 kN

5. WORST CASE OF UNIFORM OR CONCENTRATED LIVE LOADS WILL BE USED FOR DESIGN OF STRUCTURAL MEMBERS.

FOUNDATION AND SITE WORK

1. REFER TO GEOTECHNICAL REPORT PREPARED BY GOLDER ASSOCIATES DATED SEPTEMBER 10, 2015, TECHNICAL MEMORANDUM DATED APRIL 17, 2018 AND ALL ITS SUPPLEMENT'S AND AMENDMENTS FOR EXCAVATION, BACKFILLING, FILL MATERIALS, COMPACTION, FROST PROTECTION AND OTHER SITE PREPARATION REQUIREMENTS NOT SHOWN ON THESE DRAWINGS.

2. DESIGN SOIL BEARING CAPACITIES:

STRIP FOOTING	SLS =150 kPa	ULS =225 kPa
PAD FOOTINGS	SLS =150 kPa	ULS =225 kPa
SEISMIC ELEMENT FOOTING (UNDER FACTORED LOAD)	300 kPa	

3. ANY FOOTING ELEVATIONS INDICATED ON THE DRAWINGS ARE GENERAL AND SHALL BE USED FOR ESTIMATING AND BIDDING PURPOSES. FOOTINGS MAY HAVE TO BE PLACED AT DIFFERENT ELEVATIONS AS A RESULT OF LOCAL SOILS CONDITIONS, UNDERGROUND SERVICES AND TO ACCOMMODATE OTHER MECHANICAL AND ELECTRICAL SERVICES. FOLLOW TYPICAL DETAILS SHOWN ON THESE DRAWINGS FOR FOOTING PLACEMENT RELATIVE TO ADJACENT FOOTINGS, SUMP AND OTHER EXCAVATED STRUCTURES AND LOCATE AS DIRECTED BY GEOTECHNICAL ENGINEER.

4. THE BASES OF FOUNDATIONS SHALL BE PROTECTED FROM RAIN, SNOW AND ANY WATER INFILTRATION.

5. NO FOUNDATIONS MAY BE POURED BEFORE THE BEARING MATERIAL HAS BEEN INSPECTED.

6. IMMEDIATELY AFTER INSPECTION AND APPROVAL BY THE DEPARTMENTAL REPRESENTATIVE, PROVIDE A MINIMUM 500mm THICK GRANULAR MATERIAL BELOW THE FOUNDATIONS AS PER GEOTECHNICAL REPORT.

7. COORDINATE CONSTRUCTION WITH UNDERSLAB SERVICES AS SHOWN ON MECHANICAL, ELECTRICAL, ARCHITECTURAL AND LANDSCAPING DRAWINGS.

8. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SITE DRAINAGE, GROUND ELEVATIONS AND DRAINAGE SLOPES.

9. CENTRE ALL FOOTINGS UNDER COLUMNS OR WALLS UNLESS NOTED OTHERWISE.

10. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR WATERPROOFING AND SEALING REQUIREMENTS.

CONCRETE REINFORCING:

1. REFER TO SPECIFICATIONS FOR CONCRETE STRENGTH, EXPOSURE CLASS & OTHER REQUIREMENTS.

2. REINFORCING BARS fy =400 MPa. ALL DOWELS ANCHOR BOLTS AND INSERTS SHALL BE PLACED BEFORE THE CONCRETE IS POURED.

3. PROVIDE MINIMUM CONCRETE COVER TO REINFORCEMENT AS FOLLOWS:

CAST AGAINST EARTH	75mm
EXPOSED TO EARTH OR WEATHER:	50mm
ELSEWHERE:	40mm

4. UNLESS NOTED OTHERWISE, PROVIDE MINIMUM SPLICE LENGTHS TO REINFORCEMENT AS FOLLOWS:

10M	450mm
15M	600mm
20M	750mm

STRUCTURAL STEEL

1. REFER TO SPECIFICATIONS FOR STEEL WORK, OPEN WEB STEEL JOISTS, STEEL DECK, DESIGN CODE REFERENCES AND OTHER REQUIREMENTS.

2. GRADES OF MATERIALS:

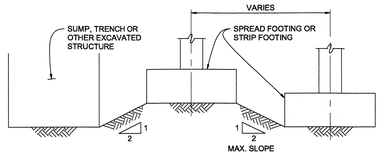
W SHAPES	350W (ASTM A992, A572 GRADE 50)
C SHAPES AND ANGLES	300W
HOLLOW STRUCTURAL STEEL (HSS)	350W, CLASS C (ASTM A500)
STRUCTURAL PIPE	ASTM A53, CLASS B
OTHER STRUCTURAL STEEL AND MISC. METAL	300W
BOLTS, NUTS AND WASHERS	ASTM A325
ANCHOR BOLTS	ASTM A307
STEEL DECKING	CSSBI 101M, GRADE A
STEEL STUD	CSA - W59, APP. H

3. DRAWINGS FROM ALL CONSULTANTS SHALL BE EXAMINED FOR EXACT LOCATIONS, DIMENSIONS AND ELEVATIONS.

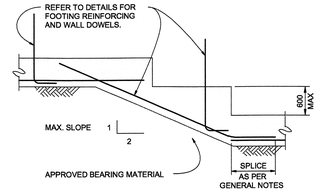
4. STEEL FABRICATORS AND CONTRACTOR SHALL CONFIRM ALL LOCATIONS, DIMENSIONS AND ELEVATIONS WITH ACTUAL SITE MEASUREMENTS BEFORE FABRICATION.
THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY FABRICATION AND WORK DONE PRIOR TO REVIEW AND APPROVAL OF THE SHOP DRAWINGS.

ABBREVIATIONS

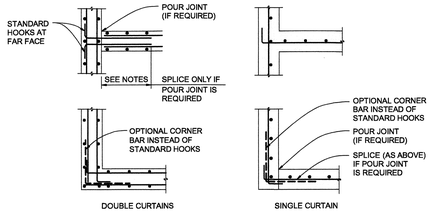
A.BOLT	ANCHOR BOLT	L.V.	LENGTH VARIES
ALT.	ALTERNATE	LG.	LONG
ARCH.	ARCHITECTURAL	LL	LOW LEVEL
BLDG.	BUILDING	LLV	LONG LEG VERTICAL
BOT.	BOTTOM	LLH	LONG LEG HORIZONTAL
BTW.	BETWEEN	LONG.	LONGITUDINAL
C/C	CENTER TO CENTER	MAX.	MAXIMUM
C/W	COMPLETE WITH	MECH.	MECHANICAL
C.I.P.	CAST IN PLACE	MIN.	MINIMUM
CANT.	CANTILEVER	N/A	NOT AVAILABLE
CL.	CLEAR	N.S.	NEAR SIDE
COL.	COLUMN	N.STUD	NELSON STUD
CONC.	CONCRETE	N.T.S.	NOT TO SCALE
CONT.	CONTINUOUS	O/C	ON CENTRES
DL	DEAD LOAD	OPP.	OPPOSITE HAND
DN	DOWN	OWSJ	OPEN WEB STEEL JOIST
DO.	DITTO	P.C.	PRECAST CONCRETE
DP.	DEEP	PL	PLATE
DWG.	DRAWING	PLY.	PLYWOOD
E.W.	EACH WAY	PROJ.	PROJECTION
E.F.	EACH FACE	R/W	REINFORCED WITH
ELEC.	ELECTRICAL	R/C	REINFORCED CONCRETE
ELEV.	ELEVATION	S.O.G.	SLAB ON GRADE
EXIST.	EXISTING	SIM.	SIMILAR
EXT.	EXTERIOR	STAGG.	STAGGERED
FL.	FLOOR	T&B	TOP AND BOTTOM
F.S.	FOOTING STEP	T&G	TONGUED & GROOVED
FDN.	FOUNDATION	T.O.C/S	TOP OF CONCRETE/STEEL
FTG.	FOOTING	THK.	THICK
G.L.	GRID LINE	TJ	TIE JOIST
GALV.	GALVANIZED	TRAN.	TRANSVERSE
H1E	HOOK ONE END	TYP.	TYPICAL
H2E	HOOK TWO ENDS	U/S	UNDERSIDE
HL	HIGH LEVEL	U.N.O.	UNLESS NOTED OTHERWISE
HORIZ.	HORIZONTAL	VERT.	VERTICAL
INT.	INTERIOR		



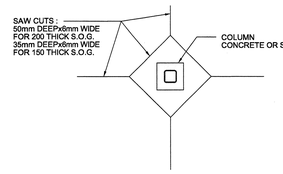
RELATIVE ELEVATIONS OF ADJACENT FOOTING



STEPPED STRIP FOOTING

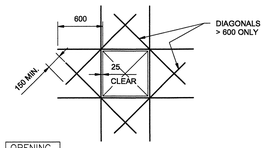


TYPICAL WALL INTERSECTION PLAN DETAILS
DETAILS FOR SINGLE AND DOUBLE CURTAINS ARE SIMILAR



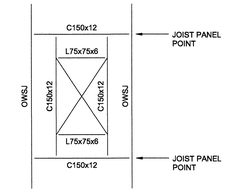
(EXTERIOR S.O.G. CONTROL JOINTS REFER TO PLAN)

INTERIOR SLAB ON GRADE CONTROL JOINTS

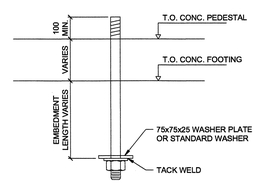


OPENING SIZE	
300 TO 450	1-15M EACH SIDE
450 TO 600	1-15M T & B EACH SIDE
> 600	1-20M T & B EACH SIDE, 1-15M DIAGONALS

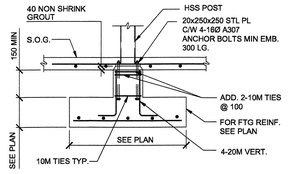
CONCRETE WALL AND SLAB OPENINGS



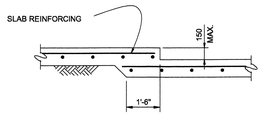
DECK OPENINGS > 450 SQUARE
SIZE OF OPENING TO BE CONFIRMED BY TRADE REQUIRING SAME PRIOR TO FABRICATION



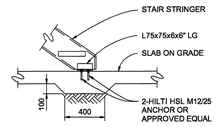
TYPICAL ANCHOR BOLT DETAIL



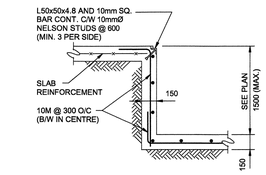
INTERIOR POST FOOTING



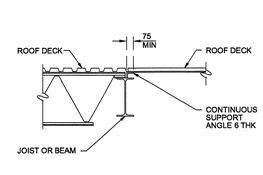
CONCRETE DEPRESSION IN SLAB ON GRADE



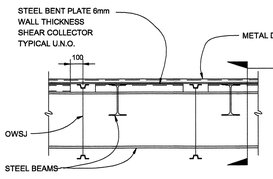
BOTTOM STEEL STRINGER DETAIL



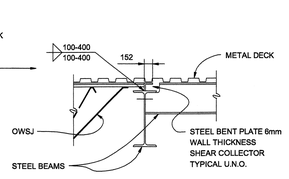
TYPICAL SECTION FOR PITS AND SUMPS

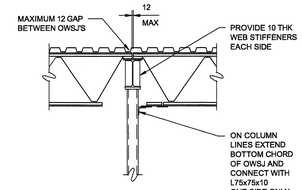


STEEL DECK - CHANGE IN DIRECTION
ALLOW NOMINAL 3° FOR OWSJ SEAT

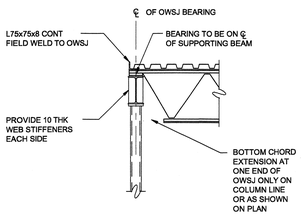


TYPICAL DECK SHEAR TRANSFER TO STEEL BEAM

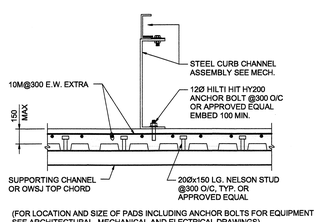




INTERIOR JOIST/BEAM/COLUMN DETAIL
ALLOW NOMINAL 3° FOR OWSJ SEAT

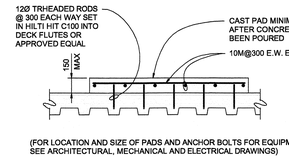


EXTERIOR JOIST/BEAM/COLUMN DETAIL
ALLOW NOMINAL 3° FOR OWSJ SEAT



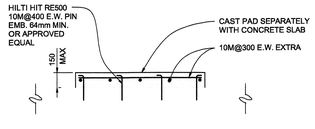
(FOR LOCATION AND SIZE OF PADS INCLUDING ANCHOR BOLTS FOR EQUIPMENT SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS)

TYPICAL MECHANICAL CURB ON ROOF DECK



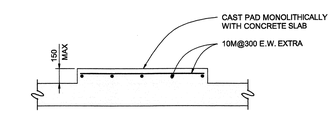
(FOR LOCATION AND SIZE OF PADS AND ANCHOR BOLTS FOR EQUIPMENT SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS)

TYPICAL EQUIPMENT PADS ON CONCRETED STEEL DECK



(FOR LOCATION AND SIZE OF PADS AND ANCHOR BOLTS FOR EQUIPMENT SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS)

TYPICAL EQUIPMENT PADS ON CONCRETE SLABS



(FOR LOCATION AND SIZE OF PADS AND ANCHOR BOLTS FOR EQUIPMENT SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS)

TYPICAL EQUIPMENT PADS ON CONCRETE SLABS

DRAWING LIST (STRUCTURAL)	
S101	GENERAL NOTES AND TYPICAL DETAILS
S201	FOUNDATION AND MAIN FLOOR PLAN
S202	UPPER FLOOR PLAN
S203	LOWER ROOF & UPPER ROOF PLANS
S301	SECTIONS & DETAILS SHEET 1
S302	SECTIONS & DETAILS SHEET 2
S401	SNOW LOAD DIAGRAM & BRACING ELEVATIONS

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

CWMM CONSULTING ENGINEERS LTD.

Revision/Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	2018-05-02

Client/Client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
LLAM

Drawn by/Dessine par
LH

PWGSC Project Manager/Administrateur de Projets TPSGC
-

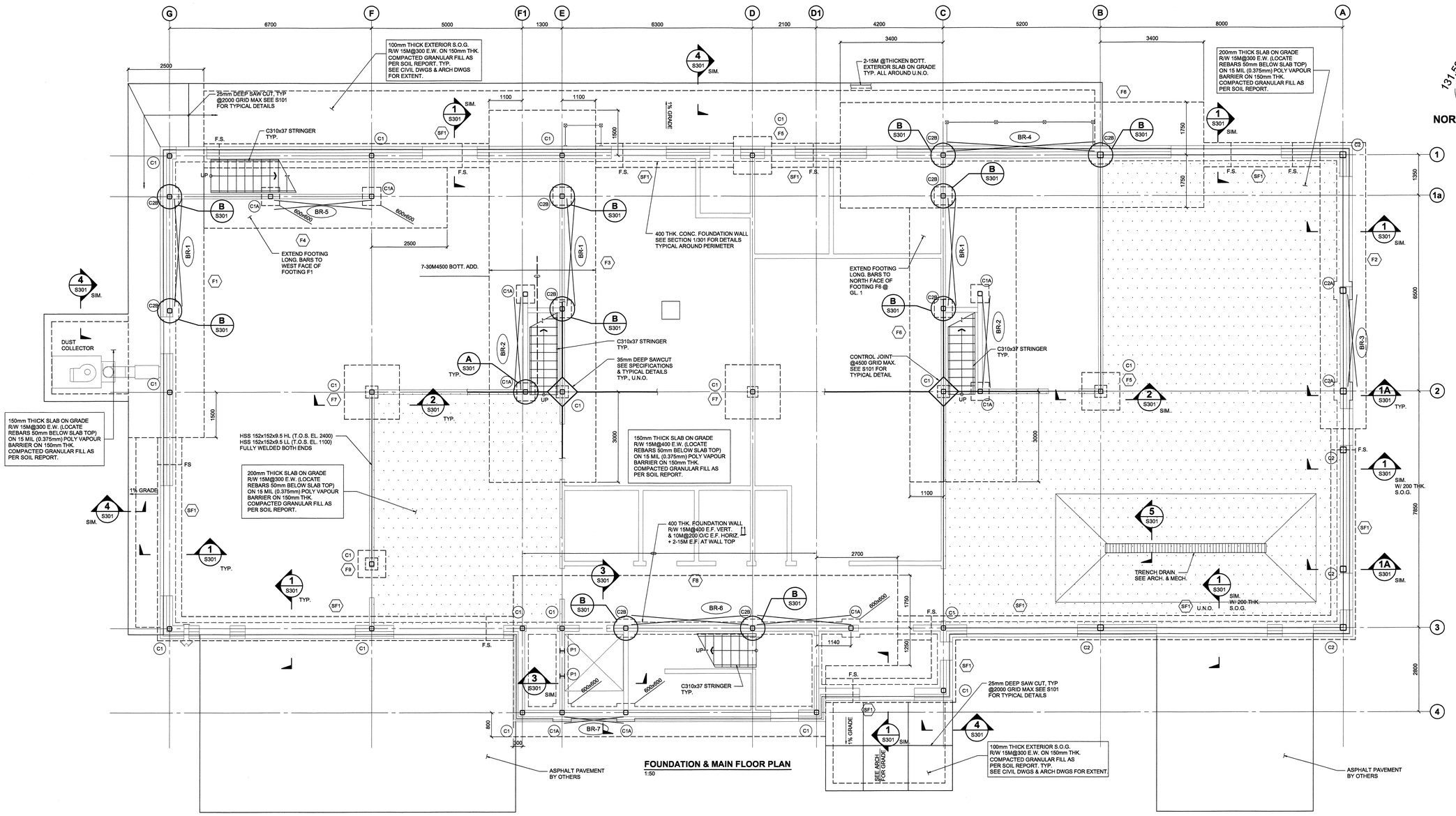
PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC

Drawing title/Titre du dessin

GENERAL NOTES AND TYPICAL DETAILS

12828
12751
12102

Project No./No. du projet	Sheet/Feuille	Revision no./ Le Révision no.
R.069377.001	S101	0



FOUNDATION & MAIN FLOOR PLAN

1:50

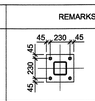
LEGEND:

- C1 — DENOTES STEEL COLUMN TYPE, SEE SCHEDULE
- F1 — DENOTES CONC. FOOTING TYPE, SEE SCHEDULE
- SF1 — DENOTES STRIP FOOTING TYPE, SEE SCHEDULE
- BR1 — DENOTES BRACING TYPE, SEE ELEVATION FOR BRACE ON S401
- BT-1 — DENOTES BRACE TRUSS, SEE ELEVATION FOR DETAILS ON S401
- F.S. — DENOTES FOOTING STEP, SEE TYP. DETAIL ON DWG. S101 FOR DETAIL
- P1 — DENOTES W150x37 POST C/W 10x200x200 BASE PLATE W/ 4-20Ø x150 LG. A307 ANCHOR BOLTS @100 GRID, FULLY WELD AT TOP OF POST

NOTES:

1. ALL SEMI OR FULLY EXPOSED STEEL MEMBERS INCLUDING ANCHOR BOLTS & EMBED PLATES TO BE HOT DIPPED GALVANIZED.
2. REFER TO DETAILS A ON S301 FOR BRACE FRAME BASE PLATE DETAILS
3. REFER TO DWG. S301 FOR SIZE & DETAILS OF PEDESTAL UNDER INTERIOR COLUMNS

COLUMN SCHEDULE

COLM. TYPE	COLUMN SIZE	BASE PLATE (THK. x W x L)	REMARKS
C1	HSS 152x152x6.4	20x320x320 C/W 4-20Ø A307 W/ STANDARD WASHER EMBED LENGTH EXTEND 200mm INTO FOOTING ON 40mm NON-SHRINK GROUT	
C1A	HSS 152x152x6.4	25x340x340 C/W 6-22Ø ASTM A193 B7 A. BOLTS W/ 75x75x25 WASHER PLATE EMBED LENGTH EXTEND 800mm INTO FOOTING ON 40mm NON-SHRINK GROUT	BRACE SEE PLAN TYP.
C2	HSS 203x203x6.4	20x350x350 C/W 4-20Ø A307 W/ STANDARD WASHER EMBED LENGTH EXTEND 200mm INTO FOOTING ON 40mm NON-SHRINK GROUT	
C2A	HSS 203x203x6.4	25x380x380 C/W 6-22Ø ASTM A193 B7 A. BOLTS W/ 75x75x25 WASHER PLATE EMBED LENGTH EXTEND 800mm INTO FOOTING ON 40mm NON-SHRINK GROUT	BRACE SEE PLAN TYP.
C2B	HSS 203x203x6.4	35x410x410 C/W 6-32Ø ASTM A193 B7 A. BOLTS W/ 75x75x25 WASHER PLATE EMBED LENGTH EXTEND 500mm INTO FOOTING ON 40mm NON-SHRINK GROUT ADD. 4-15M STIRRUPS EACH SIDES, SEE DETAIL B/S302	BRACE SEE PLAN

FOOTING SCHEDULE

COLM. TYPE	FOOTING SIZE (W x L x DP.)	REINFORCING	
F1	2500 x SEE PLAN x 900 DP.	22-20M BOTT. LONG. 15M@200 BOTT. TRANS.	12-20M TOP LONG. 15M@400 TOP TRANS.
F2	1500 x 9500 x 900	9-20M T&B LONG. 15M@200 BOTT. TRANS.	15M@400 TOP TRANS.
F3	3500 x SEE PLAN x 900	20-25M BOTT. LONG. 15M@200 BOTT. TRANS.	18-20M TOP LONG. 15M@400 TOP TRANS.
F4	2000 x SEE PLAN x 900	16-20M T&B LONG. 15M@200 BOTT. TRANS.	15M@400 TOP TRANS.
F5	1250 x 1250 x 300	5-15M BOTT. E.W.	
F6	3500 x SEE PLAN x 900	20-25M BOTT. LONG. 15M@200 BOTT. TRANS.	18-20M TOP LONG. 15M@400 TOP TRANS.
F7	1800 x 1800 x 350	9-15M BOTT. E.W.	
F8	SEE PLAN x SEE PLAN x 900	25M@200 BOTT. LONG. 15M@200 BOTT. TRANS.	15M@200 TOP LONG. 15M@400 TOP TRANS.
F9	900 x 900 x 300	3-15M BOTT. E.W.	
SF1	600 WIDE x 300 DP.	3-15M LONG. BOTT.	

NOTES:

1. ALL EXTERIOR STEEL STUD WALLS SHALL BE DESIGNED TO CONTINUOUSLY SPAN BETWEEN FLOORS, OR BETWEEN FLOOR AND ROOF WITHOUT RELYING ON DIAGONAL BRACES AS INTERMEDIATE SUPPORTS.
2. ALL EXTERIOR STEEL STUD WALLS SHALL HAVE TOP RESTRAINT PROVIDED BY FLOOR / ROOF DIAPHRAGM. AT THE LOCATIONS WHERE STEEL STUD WALLS TERMINATED AT UNDER SIDE OF FLOOR / ROOF BEAMS, DEFLECTION CHANNEL SHALL BE PROVIDED AT STUD WALL TOP AND DIAGONAL BRACES DESIGNED, SUPPLIED AND INSTALLED BY THE STEEL STUD SUPPLIER SHALL BE PROVIDED TO PROPERLY TRANSFER THE HORIZONTAL FORCE FROM WALLS TO FLOOR / ROOF DIAPHRAGM.

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada
REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
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CWMM CONSULTING ENGINEERS LTD.

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CORRECTIONAL SERVICE CANADA

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6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
L.LAM

Drawn by/Dessine par
LH

PWGSC Project Manager/Administrateur de Projets TPSGC
-

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architecture et de génie, TPSGC

L. K. M. LAM
PROFESSIONAL ENGINEER
MAY 03, 2018

Drawing title/Titre du dessin

FOUNDATION & MAIN FLOOR PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
12828 12751 12102 R.069377.001	S201	0

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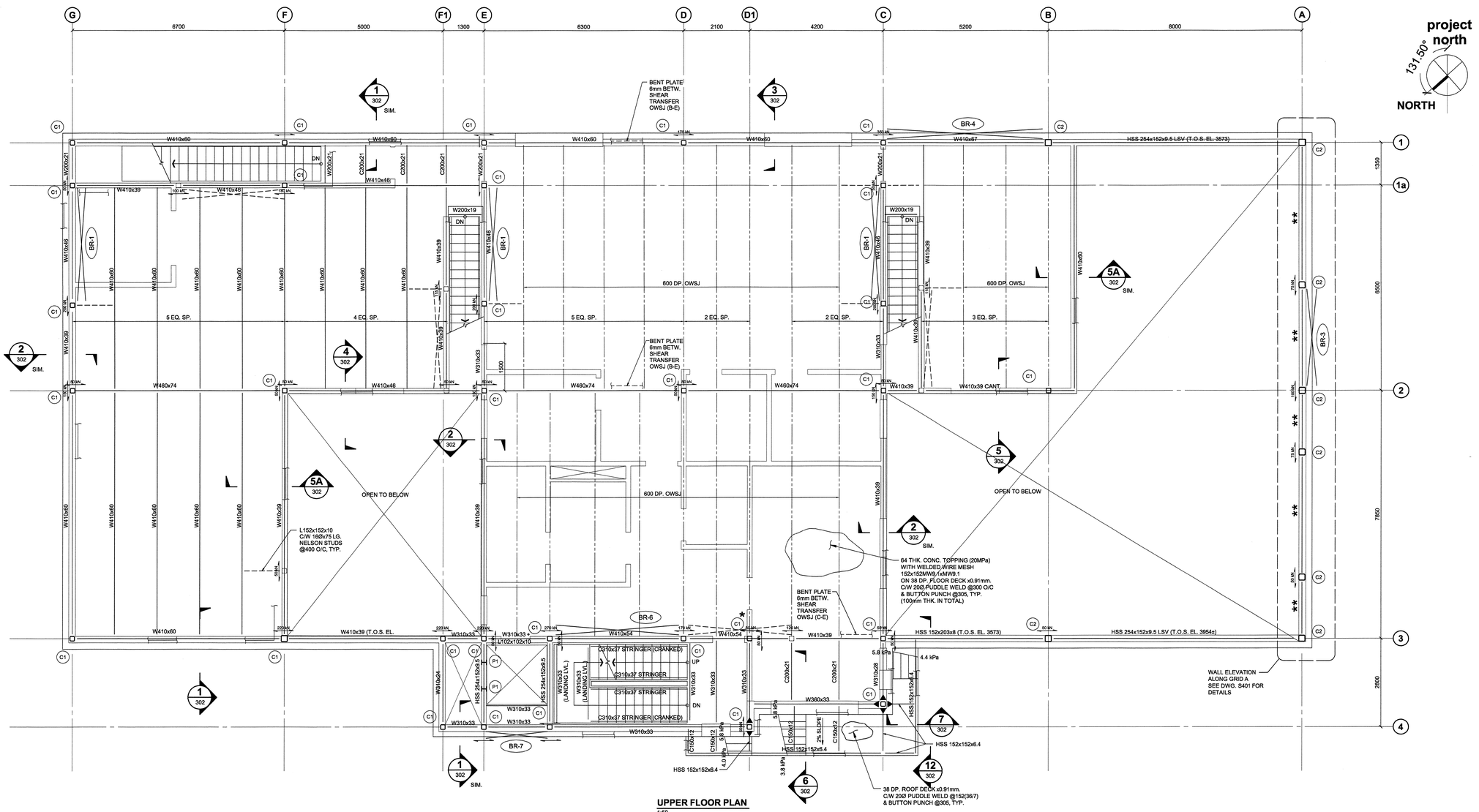


UPPER FLOOR PLAN
1:50

LEGEND:

- C1 — DENOTES STEEL COLUMN TYPE, SEE SCHEDULE ON DWG. S201
- DENOTES DRAG STRUT FORCE OF MIN. 50 kN FOR DESIGN OF OWSJ MEMBERS & CONNECTIONS, U.N.O.
- BR1 — DENOTES BRACING TYPE SEE ELEVATION FOR BRACE ON S401
- DENOTES L102x102x6.4 CONT. PERIMETER ANGLE
- DENOTES MOMENT CONNECTION Mf=60 kN-m, Vf=20 kN
- C1 * — DENOTES COLUMN TERMINATED AT THIS LEVEL
- ** — DENOTES HORIZONTAL BEAMS FOR ANCHORAGE OF CLIENT SUPPLIED TIRE RACKS; LOCATION TO BE DETERMINED ON SITE
- P1 — DENOTES W150x37 POST FULLY WELD TOP & BOTTOM

NOTES:

1. ALL SEMI OR FULLY EXPOSED STEEL MEMBERS INCLUDING ANCHOR BOLTS & EMBED PLATES TO BE HOT DIPPED GALVANIZED.
2. PROVIDE 10mm THK. STIFFENNER PLATE C/W FULL WELDS TO STEEL BEAMS & STRINGERS AT HANDRAIL POST LOCATIONS, TYP.
3. ALL STEEL STAIR MEMBER & ITS CONNECTIONS TO FLOOR BEAM TO BE SUPPLIED& DESIGNED BY STEEL FABRICATOR.
4. REFER TO ARCH. DRAWING FOR CANOPY DRAINAGE.
5. ALL CONNECTION DESIGN INCLUDING DRAG STRUT FORCE AS SHOWN SHALL BE MULTIPLIED BY 1.5 FOR SEISMIC DESIGN.

NOTES:

1. ALL EXTERIOR STEEL STUD WALLS SHALL BE DESIGNED TO CONTINUOUSLY SPAN BETWEEN FLOORS, OR BETWEEN FLOOR AND ROOF WITHOUT RELYING ON DIAGONAL BRACES AS INTERMEDIATE SUPPORTS.
2. ALL EXTERIOR STEEL STUD WALLS SHALL HAVE TOP RESTRAINT PROVIDED BY FLOOR / ROOF DIAPHRAGM. AT THE LOCATIONS WHERE STEEL STUD WALLS TERMINATED AT UNDER SIDE OF FLOOR / ROOF BEAMS, DEFLECTION CHANNEL SHALL BE PROVIDED AT STUD WALL TOP AND DIAGONAL BRACES DESIGNED, SUPPLIED AND INSTALLED BY THE STEEL STUD SUPPLIER SHALL BE PROVIDED TO PROPERLY TRANSFER THE HORIZONTAL FORCE FROM WALLS TO FLOOR / ROOF DIAPHRAGM.

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

CWMM CONSULTING ENGINEERS LTD.

Revision/ Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	2018-05-02

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
L.LAM

Drawn by/Dessiné par
LH

PWGSC Project Manager/Administrateur de Projets TPSGC
-

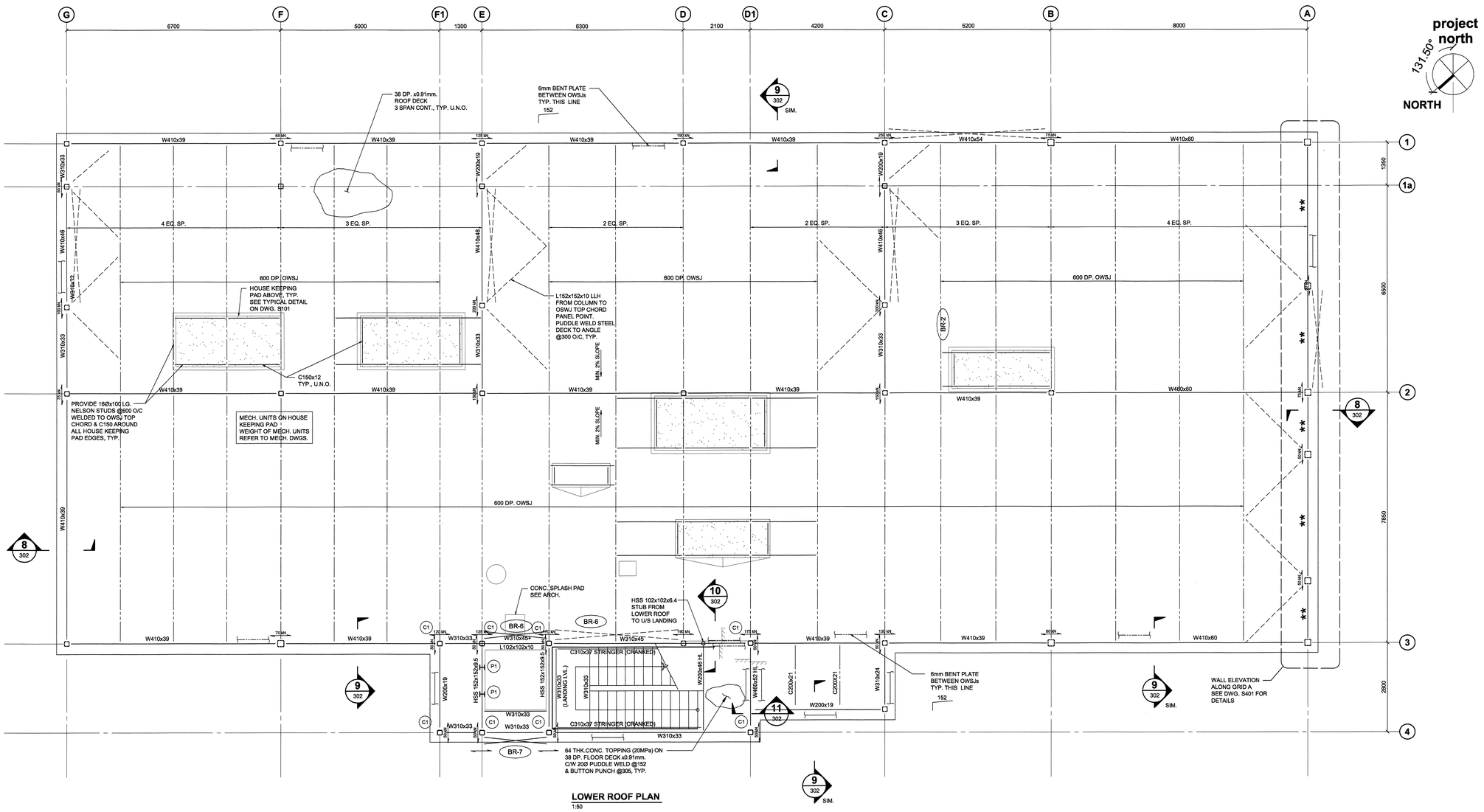
PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC

L. K. P. LAM — PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA
MAY 02, 2018

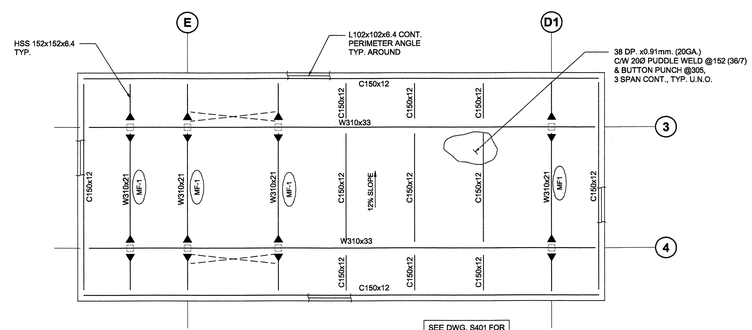
Drawing title/Titre du dessin

UPPER FLOOR PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./ Révision no.
12828 12751 12102 **R.069377.001**	**S202**	**0**



LOWER ROOF PLAN
1:50



SEE DWG. S401 FOR MF-1 ELEVATION

REFER TO ARCH. FOR ELEV. & SLOPE

UPPER ROOF PLAN
1:50

LEGEND:

- C1 — DENOTES STEEL COLUMN TYPE, SEE SCHEDULE ON DWG. S201
- DENOTES DRAG STRUT FORCE OF MIN. 50 kN FOR DESIGN OF OWSJ MEMBERS & CONNECTIONS, U.N.O.
- BR1 — DENOTES BRACING TYPE SEE ELEVATION FOR BRACE ON S401
- DENOTES L102x102x6.4 CONT. PERIMETER ANGLE
- DENOTES MOMENT CONNECTION Mf=60 kN-m } Vf=20 kN }
- MF-1 — DENOTES MOMENT FRAME
- ** — DENOTES HORIZONTAL BEAMS FOR ANCHORAGE OF CLIENT SUPPLIED TIRE RACKS; LOCATION TO BE DETERMINED ON SITE PROVIDE FULL WELDS ALL ENDS TYPICAL

NOTES:

1. OWSJ TO BE DESIGNED FOR ADDITIONAL MECH. EQUIPMENT LOAD ON ROOF. REFER TO MECH. DWG. FOR ROOF TOP UNIT WEIGHT.
2. STEEL DECK PROPERTIES AND FASTENER REQUIREMENTS: 38mm x 0.91mm (20ga) C/W 20ø PUDDLE WELD @152(36/7) & BUTTON PUNCH @305 3 SPAN CONT., TYP. U.N.O.
3. ALL CONNECTION DESIGN INCLUDING DRAG STRUT FORCE AS SHOWN SHALL BE MULTIPLIED BY 1.5 FOR SEISMIC DESIGN.
4. ALL SEMI OR FULLY EXPOSED STEEL MEMBERS INCLUDING ANCHOR BOLTS & EMBED PLATES TO BE HOT DIPPED GALVANIZED.
5. PROVIDE 10mm THK. STIFFENNER PLATE C/W FULL WELDS TO STEEL BEAMS & STRINGERS AT HANDRAIL POST LOCATIONS, TYP.
6. ALL STEEL STAIR CONNECTIONS TO BE SUPPLIED & DESIGNED BY STEEL FABRICATOR.
7. REFER TO ARCH. DRAWING FOR ROOF DRAINAGE.
8. REFER TO MECH. DRAWING FOR WEIGHTS OF ROOF TOP UNITS.

NOTES:

1. ALL EXTERIOR STEEL STUD WALLS SHALL BE DESIGNED TO CONTINUOUSLY SPAN BETWEEN FLOORS, OR BETWEEN FLOOR AND ROOF WITHOUT RELYING ON DIAGONAL BRACES AS INTERMEDIATE SUPPORTS.
2. ALL EXTERIOR STEEL STUD WALLS SHALL HAVE TOP RESTRAINT PROVIDED BY FLOOR / ROOF DIAPHRAGM. AT THE LOCATIONS WHERE STEEL STUD WALLS TERMINATED AT UNDER SIDE OF FLOOR / ROOF BEAMS, DEFLECTION CHANNEL SHALL BE PROVIDED AT STUD WALL TOP AND DIAGONAL BRACES DESIGNED, SUPPLIED AND INSTALLED BY THE STEEL STUD SUPPLIER SHALL BE PROVIDED TO PROPERLY TRANSFER THE HORIZONTAL FORCE FROM WALLS TO FLOOR / ROOF DIAPHRAGM.

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

CWMM CONSULTING ENGINEERS LTD.

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0	ISSUED FOR TENDER	2018-05-02

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

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Consultant Approval Box Only

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L.LAM

Drawn by/Dessiné par
LH

PWGSC Project Manager/Administrateur de Projets TPSGC
-

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC

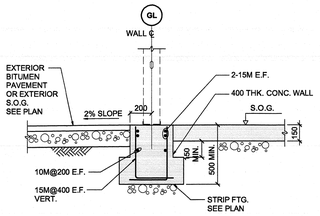
L.K.S. LAU ENGINEER — MAY 02, 2018

Drawing title/Titre du dessin

LOWER ROOF & UPPER ROOF PLANS

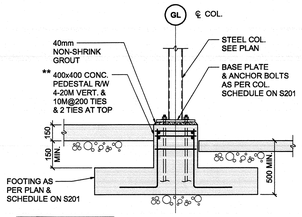
Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
12828 12751 12102 **R.069377.001**	**S203**	**0**

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



TYP. AROUND PERIMETER

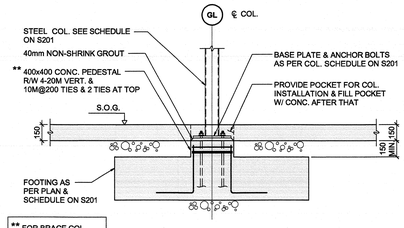
SECTION 1 1:20 — 1 / S201



** FOR BRACE COL. 600x600 PEDESTAL R/W 8-25M VERT. W/ 10M@100 TIES ABOVE T.O. FTG. 10M@200 BELOW T.O. FTG. & 2 TIES @ TOP MIN.

TYP. AT COLUMN ALONG PERIMETER

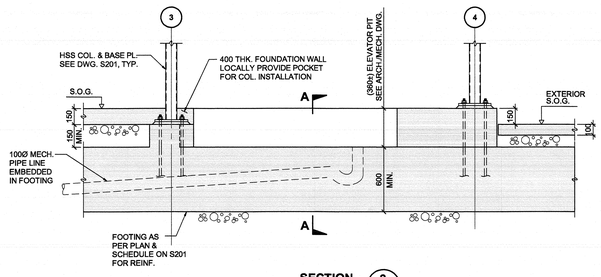
SECTION 1A 1:20 — 1A / S201



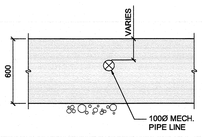
** FOR BRACE COL. 600x600 PEDESTAL R/W 8-25M VERT. W/ 10M@100 TIES ABOVE T.O. FTG. 10M@200 BELOW T.O. FTG. & 2 TIES @ TOP MIN.

TYP. FOR INTERIOR COLUMN BASE CONNECTION

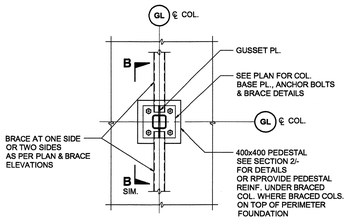
SECTION 2 1:20 — 2 / S201



SECTION 3 1:20 — 3 / S201

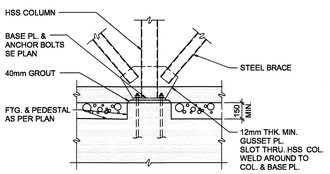


SECTION A - A 1:20

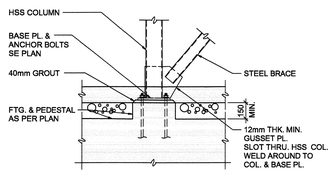


TYP. FOR BRACED COL.

DETAIL A 1:20 — A / S201

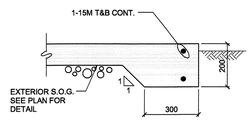


BRACES AT BOTH SIDES



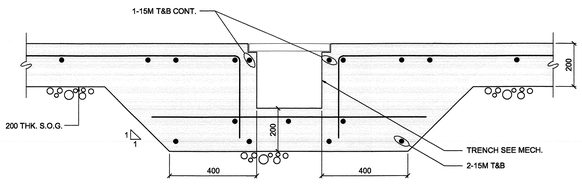
BRACE AT ONE SIDE

SECTION B - B 1:20



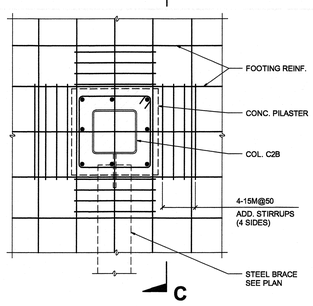
TYP. ALONG THE PERIMETER OF EXTERIOR S.O.G.

SECTION 4 1:10 — 4 / S201

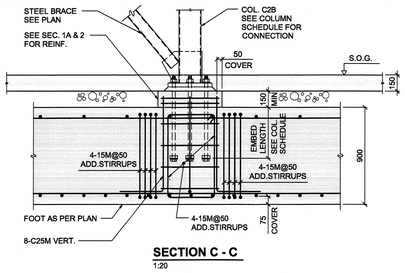


SECTION 5 1:10 — 5 / S201

TYP. FOR TRENCH DETAIL



DETAIL B 1:10 — B / S201



SECTION C - C 1:20

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

CWMM CONSULTING ENGINEERS LTD.

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Client/Client

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Project title/Titre du projet

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Consultant Approval Box Only

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L.LAM

Drawn by/Dessine par
LH

PWGSC Project Manager/Administrateur de Projets TPSGC
-

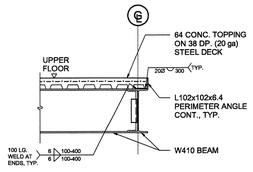
PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC

Drawing title/Titre du dessin

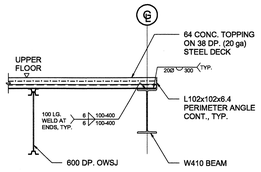
SECTIONS AND DETAILS SHEET 1

PROFESSIONAL ENGINEER — L. K. S. LAM — PROVINCE OF BRITISH COLUMBIA
MAY 02, 2018

12828	Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
12751	R.069377.001	S301	0
12102			



SECTION 1 1:20 — 202



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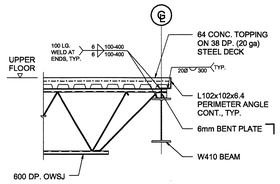

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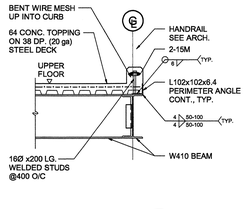
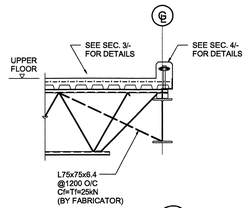
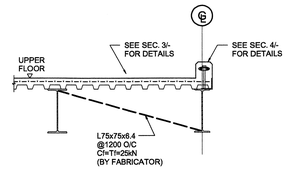


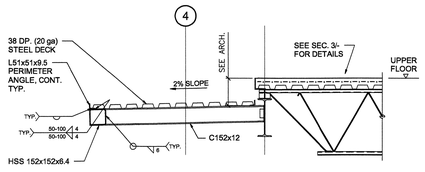
SECTION 4 1:20 — 202



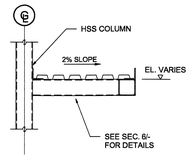
SECTION 5 1:20 — 202



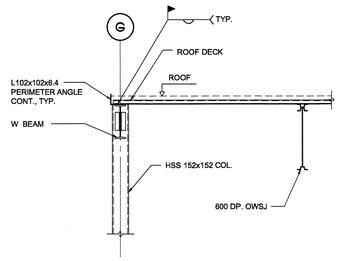
SECTION 5A 1:20 — 202



SECTION 6 1:20 — 202



SECTION 7 1:20 — 202



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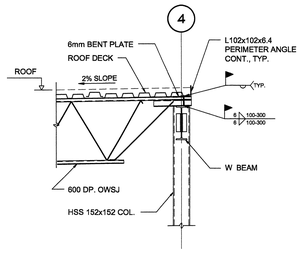
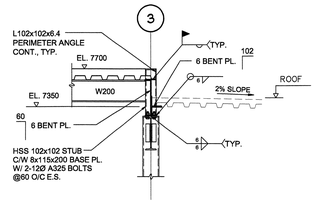
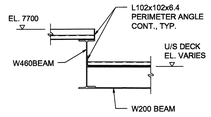


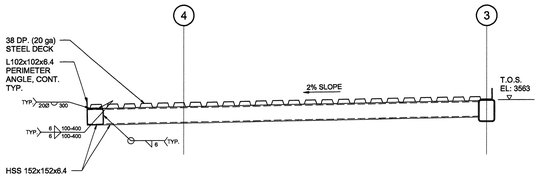
SECTION 9 1:20 — 203



SECTION 10 1:20 — 203



SECTION 11 1:20 — 203



SECTION 12 1:20 — 202

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

CWMM CONSULTING ENGINEERS LTD.

Revision/ Revision	Description/Description	Date/Date
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Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

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Consultant Approval Box Only

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Drawn by/Dessine par
LH

PWGSC Project Manager/Administrateur de Projets TPSGC
-

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC

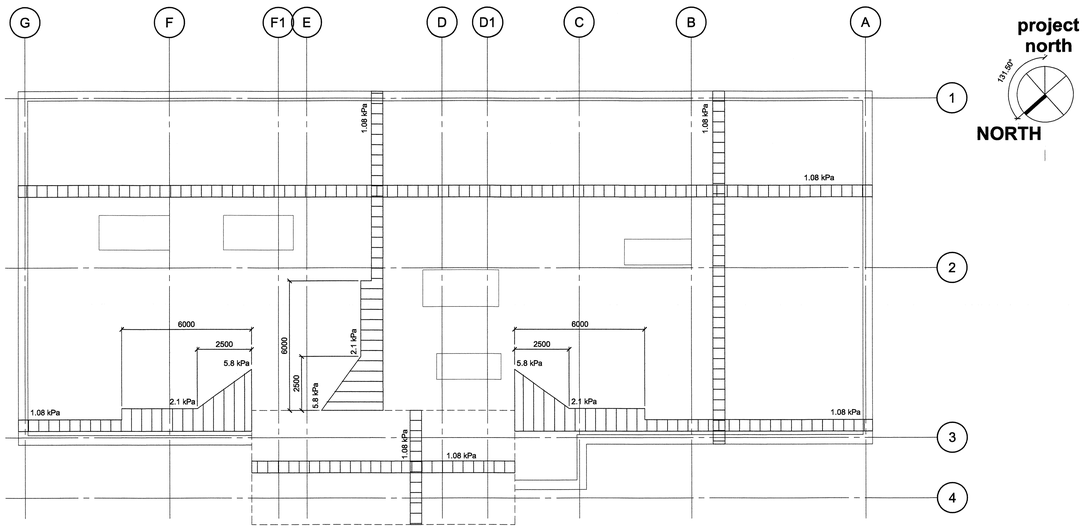
Drawing title/Titre du dessin

SECTION AND DETAILS SHEET 2

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA L. K. M. LAM

MAY 02, 2018

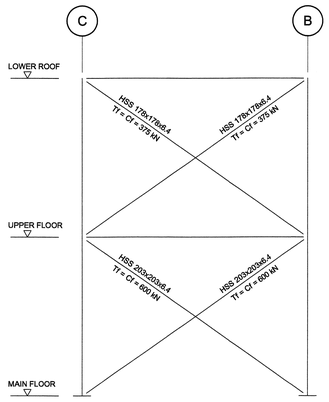
Project No./No. du projet	Sheet/Feuille	Revision no./ Le Révision no.
12828 12751 12102	R.069377.001	S302	0



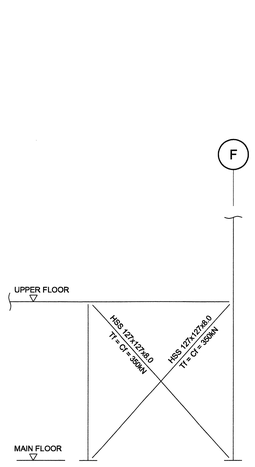
SNOW LOAD DIAGRAM
1:100

REFER TO S202 FOR SNOW BUILT-UP AT CANOPY

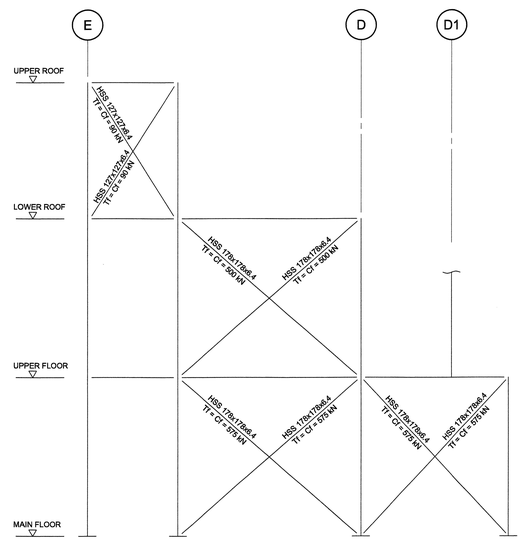
ROOF DECK DIAPHRAGM CONNECTION
1:200



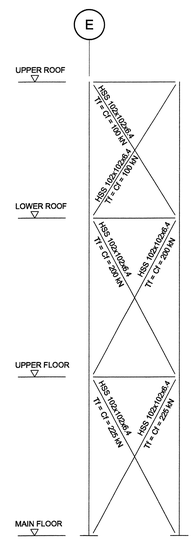
BR-4 ELEVATION
1:50



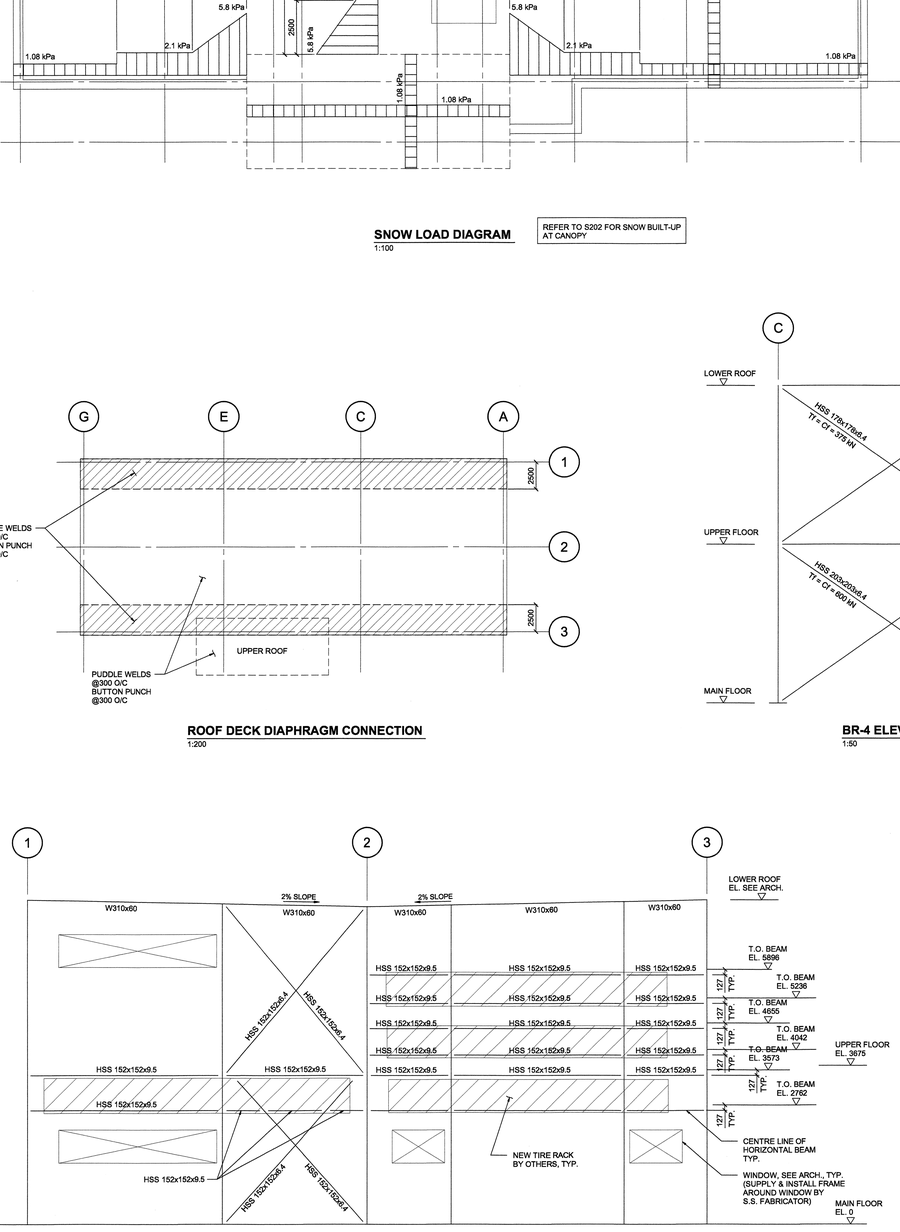
BR-5 ELEVATION
1:50



BR-6 ELEVATION
1:50

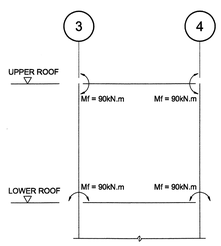


BR-7 ELEVATION
1:50



WALL ELEVATION ON GRID LINE (A)
1:50

NOTE:
1. REFER TO PLAN FOR COLUMN & BEAM SIZE.
2. MULTIPLY BY 1.5 FOR SEISMIC DESIGN OF BRACE CONNECTION.



MF-1 ELEVATION
1:50

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

CWMM CONSULTING ENGINEERS LTD.

Revision/ Revision	Description/Description	Date/Date
0	ISSUED FOR TENDER	2018-05-02

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
L.LAM

Drawn by/Dessine par
LH

PWGSC Project Manager/Administrateur de Projets TPSGC
-

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architecture et de génie, TPSGC

Drawing title/Titre du dessin

SNOW LOAD DIAGRAM & BRACING ELEVATIONS

12828	Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
12751	R.069377.001	S401	0
12102			

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

MECHANICAL SYMBOLS

SYMBOL	DESCRIPTIONS
	DUCTWORK
	FLEXIBLE DUCT
	DUCTWORK C/W 25mm ACOUSTICAL LINER
	DUCTWORK C/W 50mm ACOUSTICAL LINER
	DUCTWORK C/W 50mm DUCT INSULATION
	SUPPLY DUCT RISER/SECTION
	RETURN/EXHAUST DUCT RISER/SECTION
	OUTDOOR AIR DUCT RISER/SECTION
	FLEXIBLE DUCT CONNECTOR
	TRANSFER AIR OPENING
D	DUCT DROP
R	DUCT RISE
	VOLUME DAMPER
	FIRE DAMPER IN VERTICAL SEPARATION
	FIRE DAMPER IN HORIZONTAL SEPARATION
	FIRE & SMOKE DAMPER
	SMOKE DAMPER
	BACKDRAFT DAMPER
M	MOTORIZED DAMPER
	REHEAT COIL
	SINGLE DUCT AIR TERMINAL UNIT WITH REHEAT
	SINGLE DUCT AIR TERMINAL UNIT WITH REHEAT & SOUND ATTENUATOR
	AIRFLOW DIRECTION
	RETURN/EXHAUST AIRFLOW DIRECTION
	SUPPLY AIRFLOW DIRECTION
T	TEMPERATURE SENSOR
T	THERMOSTAT
CO2	CARBON DIOXIDE SENSOR
CO	CARBON MONOXIDE SENSOR
M	MOTION DETECTOR
P	SPACE PRESSURE SENSOR
S	SMOKE DETECTOR (BY ELEC. DIVISION)
$	MANUAL WALL SWITCH
X	DOOR GRILLE (TYPE AS DESIGNATED "X")
R	REFRIGERANT PIPING
D	INDIRECT DRAIN

MECHANICAL SYMBOLS

SYMBOL	DESCRIPTIONS
	ISOLATION VALVE
	GLOBE VALVE
	ANGLE GLOBE VALVE
	CHECK VALVE
	STRAINER
	DRAIN W/ CAP & CHAIN
	2-WAY CONTROL VALVE, MODULATING
	2-WAY CONTROL VALVE, 2-POSITION
	3-WAY CONTROL VALVE, MODULATING
	3-WAY CONTROL VALVE, 2-POSITION
	SOLENOID VALVE
	BALANCING VALVE
	CALIBRATED BALANCING VALVE
	AUTOMATIC FLOW LIMITING VALVE
	HOSE BIBB OR GAUGE COCK
	PETE'S PLUG
	TEMPERATURE & PRESSURE RELIEF VALVE
	PRESSURE REDUCING VALVE
	AUTOMATIC AIR VENT W/ ISOLATION VALVE
	PIPE CAP
	PIPE FLANGE
	UNION
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
T	THERMOMETER
P	PRESSURE GAUGE
V	VACUUM GAUGE
FS	FLOW SWITCH
PS	PRESSURE SWITCH
	PUMP
	POINT OF CONNECTION
	POINT OF DISCONNECTION
VAxx	EQUIPMENT TAG
NO.① TYPE AIRFLOW SIZE	AIR DISTRIBUTION TAG AIRFLOW: L/S (METRIC) OR CFM (IP.)
TYPE SIZE KW	RADIANT PANEL & WALL FIN TAG
P-XXXX	CIRC. LOAD-MATCH PUMP TAG PUMP NUMBER FLOOR LEVEL BLOCK

ABBREVIATIONS

ABBREV.	DESCRIPTIONS
AC	AIR CONDITIONING UNIT
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AL	ALUMINUM
ASD	ADJUSTABLE SPEED DRIVE (= VFD)
BDD	BACKDRAFT DAMPER
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BMS	BUILDING MANAGEMENT SYSTEM
CAV	CONSTANT AIR VOLUME
CONC.	CONCRETE
CU	CONDENSING UNIT
CV	CONSTANT VOLUME
DC	DUST COLLECTOR
DDC	DIRECT DIGITAL CONTROL
DIA.	DIAMETER
DN	DOWN
DPS	DIFFERENTIAL PRESSURE SENSOR
DWG	DRAWING
DX	DIRECT EXPANSION
EA, E/A	EXHAUST AIR
EBH	ELECTRIC BASEBOARD HEATER
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
ELEV.	ELEVATION
ESP	EXTERNAL STATIC PRESSURE
FC	FAN COIL UNIT
FD	FIRE DAMPER
FLA	FULL LOAD AMP
HC	HEATING COIL
HEX	HEAT EXCHANGER
HRV	HEAT RECOVERY VENTILATOR
HV	HEATING & VENTILATING UNIT

ABBREVIATIONS

ABBREV.	DESCRIPTIONS
HV	HEATING & VENTILATING UNIT
MCA	MINIMUM CIRCUIT AMPS
MCC	MOTOR CONTROL CENTRE
MOCP	MAX. OVER-CURRENT PROTECTION
MUA	MAKE-UP AIR UNIT
NC	NOISE CRITERIA
NIC	NOT IN CONTRACT
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
OA, O/A	OUTDOOR AIR
O.C.	ON CENTRE
OPNG	OPENING
P	PUMP
P.D.	PRESSURE DROP
PRV	PRESSURE REDUCING VALVE
RA, R/A	RETURN AIR
RE & RE	REMOVE & REINSTALL
RE & REL	REMOVE & RELOCATE
REL/A	RELIEF AIR
RF	RETURN FAN
RPBF	REDUCED PRESSURE BACKFLOW PREVENTOR
RTH	RADIANT TUBE HEATER
RTU	ROOFTOP UNIT
SA, S/A	SUPPLY AIR
SF	SUPPLY FAN
SPEC.	SPECIFICATIONS
SS	STAINLESS STEEL
TSP	TOTAL STATIC PRESSURE
TYP.	TYPICAL
U/G	UNDERGROUND
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
UTR	UP THROUGH ROOF
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE (= ASD)

SUPPLY DIFFUSER (SD-1) SCHEDULE

NECK SIZE		FACE DIMENSION (FOR DRYWALL CEILING)		AIRFLOW RANGE		THROW @ 150-100-50 FPM [0.76-0.51-0.25 m/s]		MAX. NC
IN.	mm	IN.	mm	CFM	L/S	FEET	m	
6"ø	152ø	12"x12"	305x305	0 – 90	0 – 42	2–3–6	0.6–0.9–1.8	20
8"ø	203ø	12"x12"	305x305	91 – 160	43 – 76	3–4–8	0.9–1.2–2.4	20
10"ø	254ø	20"x20"	508x508	161 – 250	77 – 118	2–3–7	0.6–0.7–2.1	20
12"ø	305ø	24"x24"	610x610	251 – 360	119 – 170	3–5–9	0.9–1.5–2.7	20
14"ø	356ø	24"x24"	610x610	361 – 450	171 – 212	3–5–10	0.9–1.5–3.0	20

NOTES:

1. SIZE PER SCHEDULE UNLESS OTHERWISE NOTED ON DRAWING.
2. FOR T-BAR CEILING INSTALLATIONS, FACE DIMENSION SHALL BE 610x610 [24"x24"].
3. DUCTWORK WITHIN 610mm [2'-0"] FROM DIFFUSER NECK, INCLUDING THE ENTIRE LENGTH OF FLEXIBLE DUCT, SHALL BE THE SAME SIZE AS DIFFUSER NECK.
4. PROVIDE SECTORIZING BAFFLE WHERE INDICATED ON DRAWINGS.
5. N.C. VALUES ARE BASED ON ROOM ABSORPTION OF 10 dB re 10^(-12) WATTS AND ONE DIFFUSER.

SUPPLY BRANCH DUCT SIZE SCHEDULE

NECK SIZE		AIRFLOW RANGE	
IN.	(mm)	CFM	L/S
6"ø	152ø	0 – 110	0 – 52
8"ø	203ø	111 – 220	53 – 104
10"ø	254ø	221 – 330	105 – 156
12"ø	305ø	331 – 450	157 – 212

NOTES:

1. REFER TO SCHEDULE WHERE SIZES ARE NOT NOTED ON DRAWING. APPLICABLE FOR SUPPLY BRANCH DUCT 610mm [2'-0"] UPSTREAM OF DIFFUSER.
2. DUCTWORK WITHIN 610mm [2'-0"] FROM DIFFUSER NECK, INCLUDING THE ENTIRE LENGTH OF FLEXIBLE DUCT, SHALL BE THE SAME SIZE AS DIFFUSER NECK.
3. REFER TO "FLEXIBLE DUCT/DIFFUSER CONNECTION" DETAILS.

SUPPLY DIFFUSER (SD-2) SCHEDULE

NECK SIZE		AIRFLOW RANGE		THROW @ 150-100-50 FPM [0.76-0.51-0.25 m/s]		MAX. NC
IN.	mm	CFM	L/S	FEET	m	
6"ø	152ø	0 – 90	0 – 42	1–2–3	0.6–0.9–1.8	20
8"ø	203ø	91 – 160	43 – 76	1–3–5	0.9–1.2–2.4	20
10"ø	254ø	161 – 250	77 – 118	1–4–6	0.6–0.7–2.1	20
12"ø	305ø	251 – 360	119 – 170	3–5–8	0.9–1.5–2.7	20
14"ø	356ø	361 – 490	171 – 231	3–6–8	0.9–1.5–3.0	20
16"ø	406ø	491 – 640	232 – 302	4–6–10	0.9–1.5–2.7	20
18"ø	457ø	641 – 810	303 – 382	5–7–11	0.9–1.5–3.0	20

NOTES:

1. SIZE PER SCHEDULE UNLESS OTHERWISE NOTED ON DRAWING.
2. DUCTWORK WITHIN 610mm [2'-0"] FROM DIFFUSER NECK, INCLUDING THE ENTIRE LENGTH OF FLEXIBLE DUCT, SHALL BE THE SAME SIZE AS DIFFUSER NECK.
3. PROVIDE SAFETY CHAIN FOR DIFFUSER CONE.
4. FURNISH WITH CONES AND ADJUST FOR CORRECT THROW PATTERN PRIOR TO INSTALLATION
5. N.C. VALUES ARE BASED ON ROOM ABSORPTION OF 10 dB re 10^(-12) WATTS AND ONE DIFFUSER.

SIDEWALL GRILLE/REGISTER SCHEDULE - SUPPLY

NECK SIZE		AIRFLOW RANGE		MAX. NC
IN.	mm	CFM	L/S	
6"x6"	152x152	0 – 90	0 – 42	20
10"x6"	254x152	91 – 150	43 – 71	20
14"x6"	356x152	151 – 220	72 – 104	20
14"x8"	356x203	221 – 300	105 – 142	20
18"x8"	457x203	301 – 400	143 – 189	20
22"x8"	559x203	401 – 490	190 – 231	20
22"x12"	559x305	491 – 760	232 – 359	

NOTES:

1. APPLICABLE FOR SUPPLY GRILLES (SG) AND SUPPLY REGISTERS (SR).
2. SIZE PER SCHEDULE UNLESS OTHERWISE NOTED ON DRAWING.
3. N.C. VALUES ARE BASED ON ROOM ABSORPTION OF 10 dB re 10^(-12) WATTS, TESTED WITHOUT DAMPER.
4. GRILLES SIZES ON THIS SCHEDULE ARE NOT APPLICABLE WHERE THE STRAIGHT DUCT RUN UPSTREAM OF THE GRILLE IS LESS THAN THREE (3) DUCT DIAMETERS.

CEILING GRILLE/REGISTER SCHEDULE - RETURN/EXHAUST

NECK SIZE		AIRFLOW RANGE		MAX. NC
IN.	mm	CFM	L/S	
6"x6"	152x152	0 – 100	0 – 47	20
8"x8"	203x203	101 – 200	48 – 94	20
10"x10"	254x254	201 – 330	95 – 156	20
12"x12"	305x305	331 – 470	157 – 222	20
14"x14"	356x356	471 – 620	223 – 293	20
16"x16"	406x406	621 – 800	294 – 338	20

NOTES:

1. APPLICABLE FOR RETURN GRILLES (RG), RETURN REGISTERS (RR), EXHAUST GRILLES (EG) AND EXHAUST REGISTERS (ER).
2. FOR T-BAR CEILING AND DRYWALL CEILING INSTALLATIONS.
3. SIZE PER SCHEDULE UNLESS OTHERWISE NOTED ON DRAWING.
4. N.C. VALUES ARE BASED ON ROOM ABSORPTION OF 10 dB re 10^(-12) WATTS, TESTED WITHOUT DAMPER.

TRANSFER GRILLE (TG-1) SCHEDULE

MODULE SIZE		AIRFLOW RANGE	
IN.	mm	CFM	L/S
24"x8"	610x203	0 – 310	0 – 146
24"x12"	610x305	311 – 550	147 – 260
24"x24"	610x610	551 – 1,200	261 – 566

NOTES:

1. APPLICABLE FOR TRANSFER GRILLES (TG) AND NON-DUCTED RETURN AIR TRANSFER GRILLES (RTG).
2. FOR T-BAR CEILING INSTALLATIONS. NECK SIZED SHALL BE 50mm [2"] SMALLER THAN MODULE SIZE.
3. SIZE PER SCHEDULE UNLESS OTHERWISE NOTED ON DRAWING.

SIDEWALL GRILLE/REGISTER SCHEDULE - RETURN/EXHAUST

NECK SIZE		AIRFLOW RANGE		MAX. NC
IN.	mm	CFM	L/S	
6"x6"	152x152	0 – 100	0 – 47	20
10"x6"	254x152	101 – 180	48 – 85	20
14"x6"	356x152	181 – 260	86 – 123	20
14"x8"	356x203	261 – 360	124 – 170	20
18"x8"	457x203	361 – 460	171 – 217	20
22"x8"	559x203	461 – 550	218 – 260	20
22"x12"	559x305	551 – 820	261 – 387	20

NOTES:

1. APPLICABLE FOR RETURN GRILLES (RG), RETURN REGISTERS (RR), EXHAUST GRILLES (EG) AND EXHAUST REGISTERS (ER).
2. SIZE PER SCHEDULE UNLESS OTHERWISE NOTED ON DRAWING.
3. N.C. VALUES ARE BASED ON ROOM ABSORPTION OF 10 dB re 10^(-12) WATTS, TESTED WITHOUT DAMPER.

TRANSFER GRILLE (TG-2) SCHEDULE

NECK SIZE		AIRFLOW RANGE	
IN.	mm	CFM	L/S
6"x6"	152x152	0 – 70	0 – 33
8"x8"	203x203	71 – 150	34 – 71
10"x10"	254x254	151 – 240	72 – 113
12"x12"	305x305	241 – 360	114 – 170
14"x14"	356x356	361 – 490	171 – 231
16"x16"	406x406	491 – 640	232 – 302

NOTES:

1. APPLICABLE FOR TRANSFER GRILLES (TG) AND NON-DUCTED RETURN AIR TRANSFER GRILLES (RTG).
2. FOR DRYWALL CEILING INSTALLATIONS.
3. SIZE PER SCHEDULE UNLESS OTHERWISE NOTED ON DRAWING.

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

J M BEAN & CO. LTD
MEMBER OF
INTEGRAL GROUP

Project Reference No:1524.00

01 MAY 2018

1	ISSUED FOR TENDER	2018-05-02
Revision/ Revision	Description/Description	Date/Date

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
RV/MM

Drawn by/Dessine par
RV/VC

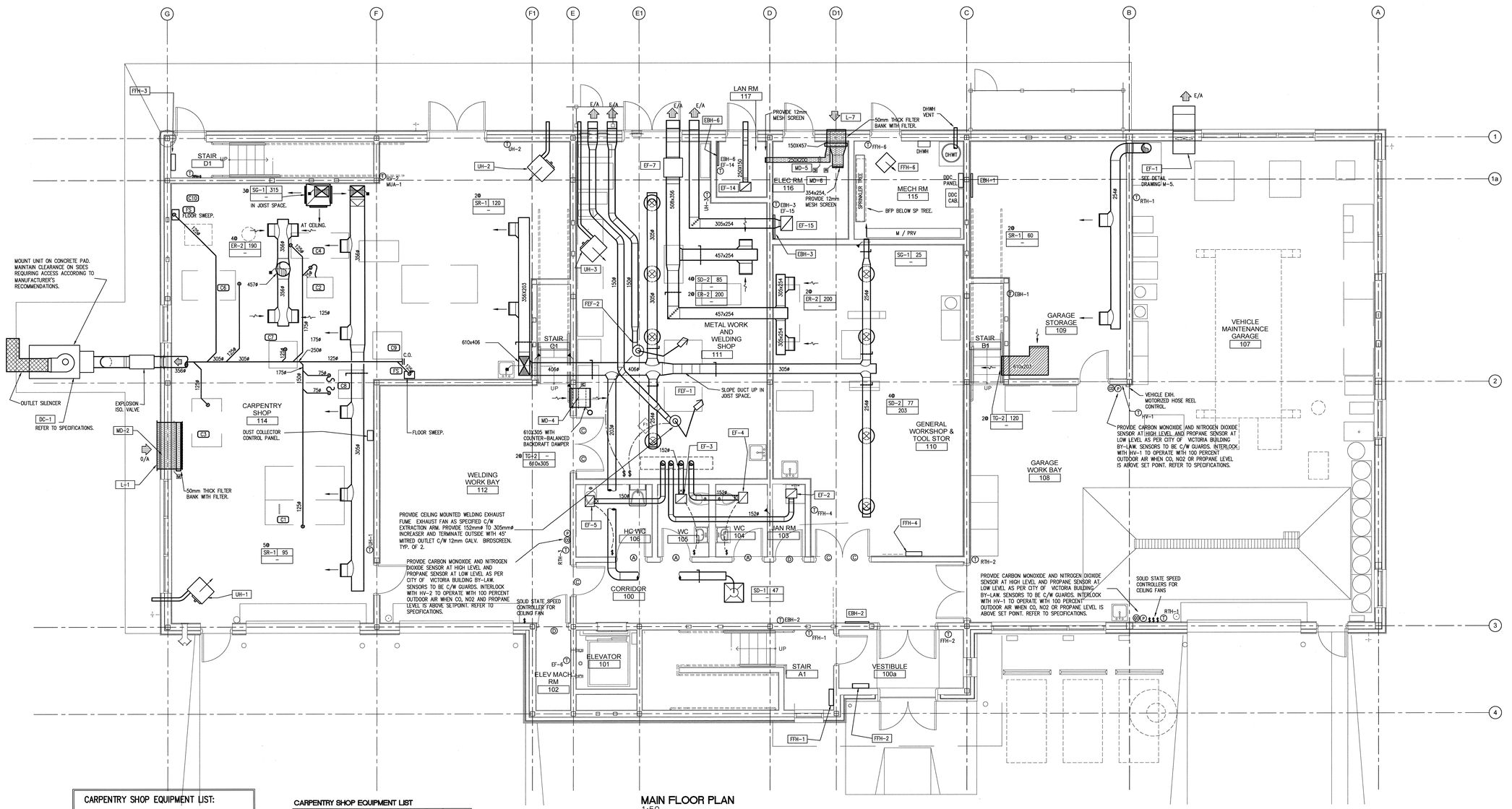
PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC
PREETIPAUL PAUL

Drawing title/Titre du dessin

LEGEND AND SCHEDULES HVAC

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	M-1 5	1



MAIN FLOOR PLAN
1:50

CARPENTRY SHOP EQUIPMENT LIST:

ITEMS LISTED BELOW CORRELATE TO ITEM NUMBERS INDICATED IN THE ARCHITECTURAL SECTION OF THE CONTRACT DOCUMENTS. CONNECTIONS TO ALL EQUIPMENT SHALL BE INCLUDED IN THIS SECTION. REFER TO ARCHITECTURAL EQUIPMENT INFORMATION DRAWINGS FOR DETAILS OF EQUIPMENT LISTED.

- C1 TABLE SAW: PROVIDE 125 DIA. DUCT WITH BLAST GATE AT 1500mm A.F.F. EQUIPMENT CONNECTION AT APPROX. 200mm A.F.F.
- C2 ROUTER (MOBILE): PROVIDE 75 DIA. DUCT TRANSITION TO 40 DUCT DIA. TO CONNECT TO 40 DIA. FLEXIBLE CONNECTION. EQUIPMENT CONNECTION AT APPROX. 900mm A.F.F.
- C3 PLANER: PROVIDE 125 DIA. DUCT WITH BLAST GATE AT 1500mm A.F.F. TO CONNECT TO 125 DIA. FLEXIBLE DUCT. CONNECT TO EQUIPMENT AT APPROX. 1150mm A.F.F.
- C4 JOINTER: PROVIDE 125 DIA. DUCT WITH BLAST GATE AT 1500mm A.F.F. TO CONNECT TO 125 DIA. FLEXIBLE DUCT. CONNECT TO EQUIPMENT AT APPROX. 300 mm A.F.F. PROVIDE 305mm X 225mm DUCT CONNECTION TO EQUIPMENT.
- C6 BAND SAW: PROVIDE 125 DIA. DUCT WITH BLAST GATE AT 1500mm A.F.F. TRANSITION TO CONNECT TO 75 DIA. SEMI-RIGID FLEXIBLE DUCT TO CONNECT AT APPROX. 750 mm A.F.F. PROVIDE 65 DIA. DUCT TRANSITION CONNECTION TO EQUIPMENT.
- C7 SANDER: PROVIDE 125 DIA. DUCT WITH BLAST GATE AT 1500mm A.F.F. TRANSITION TO SPLIT TO 2Ø 75 DIA. DUCT TO CONNECT TO 2Ø 75 FLEX. DUCT. CONNECTION TO EQUIPMENT AT APPROX. 750 mm A.F.F.
- C8 CHOP SAW: PROVIDE 2Ø 75 DIA. DUCT TRANSITION TO 50 DUCT, CONNECT TO 2Ø 50 FLEX. DUCT TO CONNECT TO 40 DUCT TRANSITION FOR EACH CONNECTION TO EQUIPMENT AT APPROX. 1100mm A.F.F.

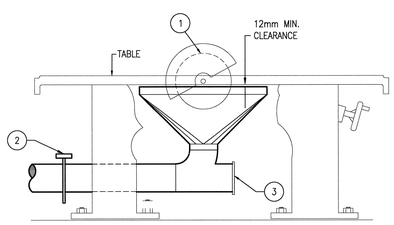
NOTE: REFER TO PRINCIPLES OF DUST COLLECTION DUCT CONSTRUCTION DRAWINGS AND SPECIFICATIONS FOR DETAILS.

CARPENTRY SHOP EQUIPMENT LIST

EQUIP. NO.	DESCRIPTION	BRANCH SIZE MM	DUST PORT SIZE MM	L/S	NOTES
C1	TABLE SAW	125	125	260	1,3
C2	ROUTER	75	40	95	1,3
C3	PLANER	125	125	260	1,3
C4	JOINTER	125	305x225	260	1,3
C6	BAND SAW	125	65	260	1,2
C7	SANDER	125	2Ø 75	260	1,2
C8	CHOP SAW	2Ø 75	2Ø 40	190	1,3
FS	FLOOR SWEEP	125	–	–	4
TOTAL	EXHAUST AIR			1585	

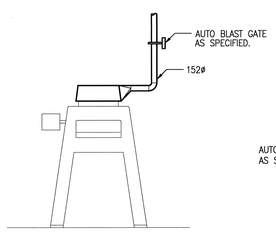
NOTES:

1. EXISTING EQUIPMENT FROM EXISTING MAINTENANCE SHOP SHALL BE RELOCATED TO THIS LOCATION BY OTHERS.
2. DUST AIR QUANTITY IS BASED ON 3500 FPM MIN. VELOCITY THROUGH DUST COLLECTION BRANCH SIZE. BLAST GATE IS DUCT BRANCH DROP SIZE.
3. DUST AIR QUANTITY IS BASED ON 4000 FPM MIN. VELOCITY THROUGH DUST COLLECTION BRANCH SIZE. BLAST GATE IS DUCT BRANCH DROP SIZE.
4. FLOOR SWEEP IS NON-CONCURRENT LOAD AND IS NOT INCLUDED IN TOTAL AIR FLOW.

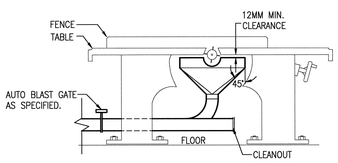


1. SAW BLADE
2. AUTO BLAST GATE AS SPECIFIED.
3. CLEANOUT

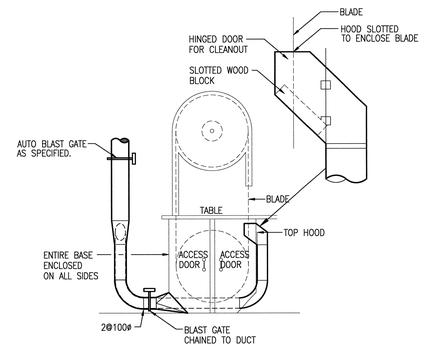
TABLE CIRCULAR SAW EXHAUST
N.T.S.



PLANER
N.T.S.



JOINTER EXHAUST
N.T.S.



BAND SAW EXHAUST
N.T.S.

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

J.M BEAN & CO.LTD
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INTEGRAL GROUP

Project Reference No:1524.00

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA G.S. PINDER # 36047 MECHANICAL
0 1 MAY 2019

Revision/ Revision	Description/Description	Date/Date
1	ISSUED FOR TENDER	2018-05-02

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par: RV/MM

Drawn by/Dessine par: RV/VC

PWGSC Project Manager/Administrateur de Projets TPSGC: DARYL SINCLAR

PWGSC Regional Manager, Architectural and Engineering Services/ Gestionnaire régional, Services d'architectural et de génie, TPSGC: PREETIPAUL PAUL

Drawing title/Titre du dessin

MAIN FLOOR PLAN
HVAC

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	M-2 5	1

PWGSC – AD – 1189X841

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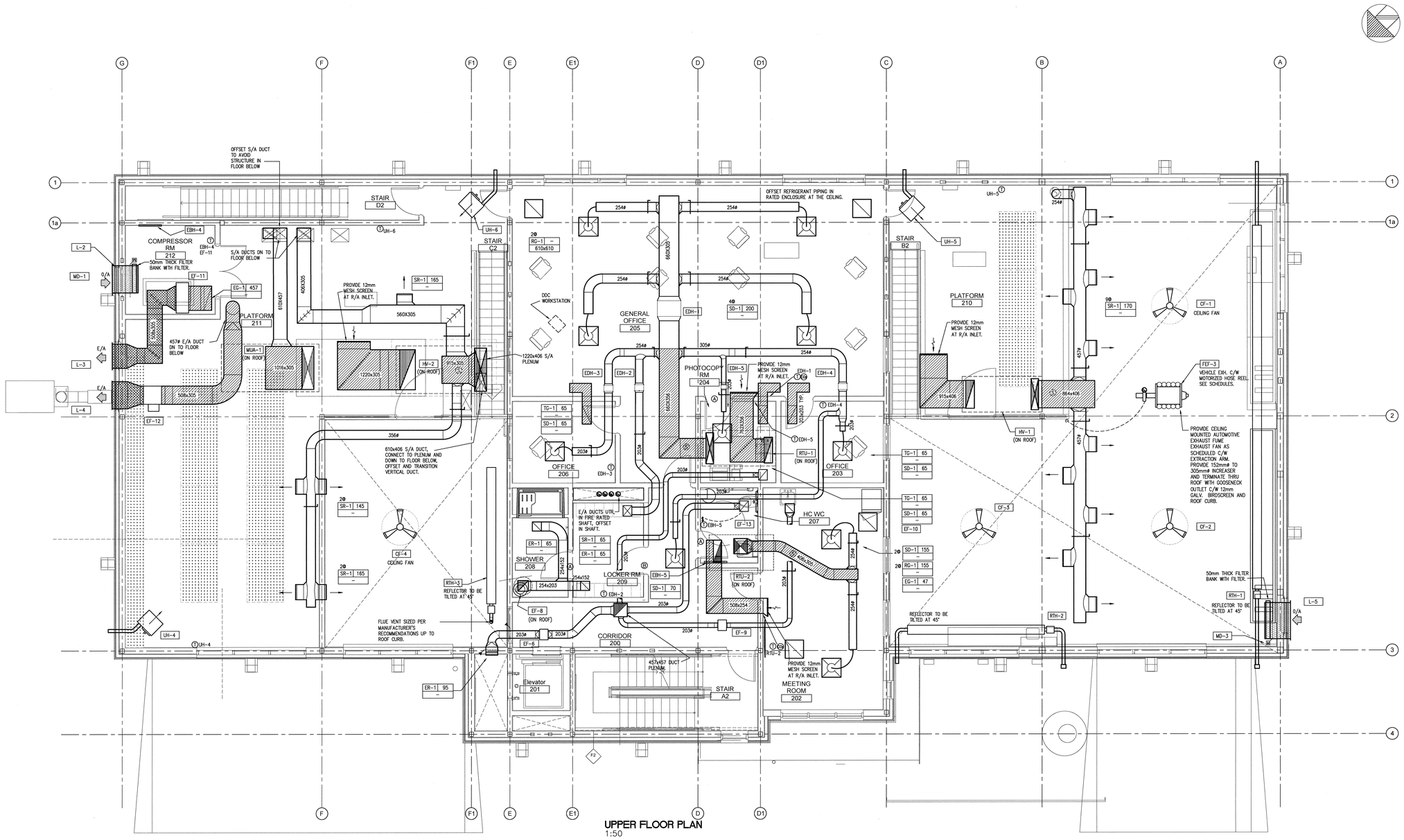
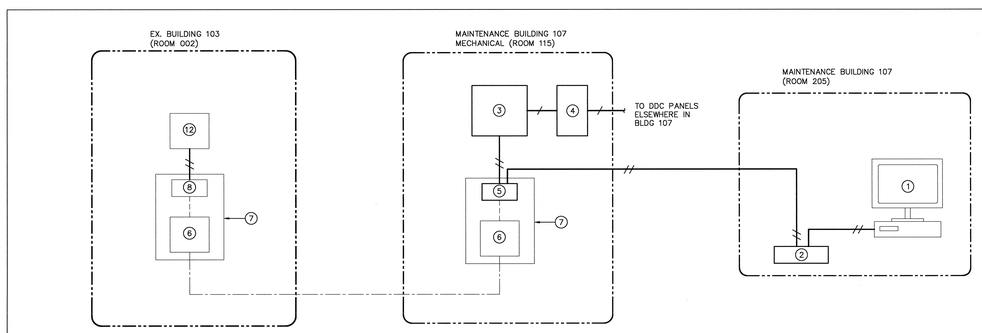


UPPER FLOOR PLAN
1:50



CONTROLS ARCHITECTURE
N.T.S.

1. EXISTING OPERATOR'S WORK STATION RELOCATED FROM CHIEF FACILITY MANAGEMENT OFFICE BY DIV. 25
2. 4-PORT ETHERNET SWITCH (BY DIV. 25)
3. DDC NETWORK CONTROLLER (BY DIV. 25)
4. DDC PANELS (BY DIV. 25)
5. FIBRE NETWORK SWITCH, MIN. 8P 100FX AND 8 10/100TX, RACK MOUNTABLE (BY DIV. 25)
6. FIBRE PATCH PANEL (BY DIV. 26)
7. COMMUNICATION CABINET (BY DIV. 26)
8. EXISTING SWITCH TO BE RELOCATED BY DIV. 25
12. EXISTING DDC SYSTEM CONTROL PANELS
13. FIBRE PATCH CORDS (BY DIV. 26).

GENERAL NOTES:

1. REFER TO ELECTRICAL DRAWINGS FOR POWER AND FIBRE OPTIC CABLING AND EQUIPMENT BY DIVISION 26.
2. PRIOR TO START OF CONSTRUCTION, SUBMIT PROPOSED LOCATIONS OF CONTROL PANELS TO DEPARTMENTAL REPRESENTATIVE FOR REVIEW AND APPROVAL.
3. THE PROPOSED CONTROLS ARCHITECTURE IS DIAGRAMMATIC AND IS FOR REFERENCE ONLY. CONTRACTOR SHALL DESIGN CONTROLS ARCHITECTURE BASED ON HARDWARE REQUIREMENTS. CONFIRM EXISTING HARDWARE ON SITE. PROVIDE ADDITIONAL HARDWARE AS REQUIRED.
4. ALL WIRING SHALL BE IN CONDUIT. REFER TO SPECIFICATION SECTION 25 05 01.

LEGEND

- CAT-5E, BY DIV. 25
- DDC WIRING (MS/TP LOW CAP) BY DIV. 25
- FIBRE OPTIC CABLE BY DIV. 26
- FIBRE PATCH CABLES (FPC) BY DIV. 26

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REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
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Project Reference No:1524.00

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA G. S. HINDLE # 35247 — 01 MAY 2018

Revision/ Revision	Description/Description	Date/Date
1	ISSUED FOR TENDER	2018-05-02

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par: RV/MM

Drawn by/Dessine par: RV/VC

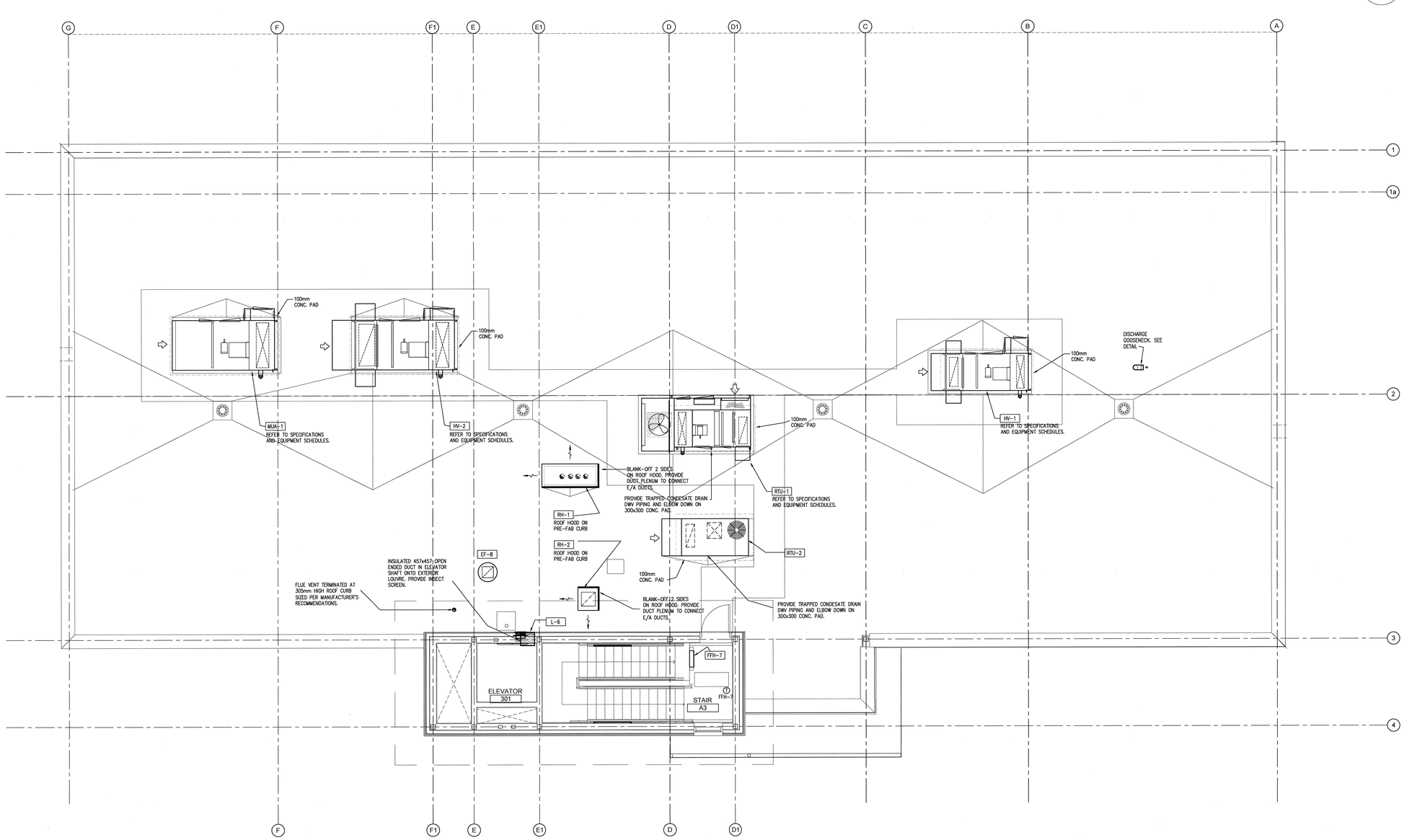
PWGSC Project Manager/Administrateur de Projets TPSGC: DARYL SINCLAIR

PWGSC Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architecturaux et de génie, TPSGC: PREETIPAUL PAUL

Drawing title/Titre du dessin

UPPER FLOOR PLAN
HVAC

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	M-3 of 5	1



ROOF PLAN
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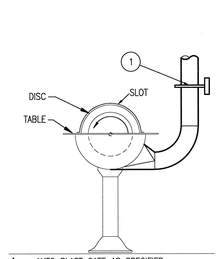
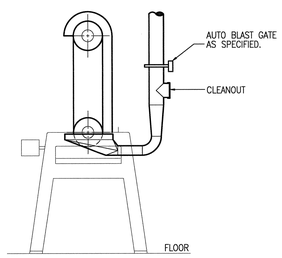


1. AUTO BLAST GATE AS SPECIFIED.

DISC SANDER EXHAUST
N.T.S.



BELT SANDER EXHAUST
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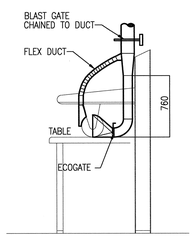

RADIAL ARM SAW
N.T.S.

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

J M BEAN & CO. LTD
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PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA G. S. PINDER # 30247 MECHANICAL
01 MAY 2018

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1	ISSUED FOR TENDER	2018-05-02

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Drawing title/Titre du dessin

ROOF PLAN
HVAC

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R.069377.001	M-4 5	1

PWGSC – AO – 1189X841

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

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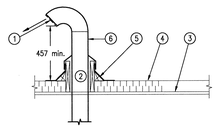
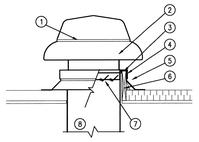


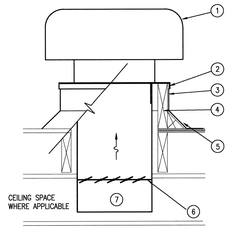
1. 12mm BIRDSCREEN.
2. DISCHARGE DUCT.
3. ROOF DECK.
4. ROOF INSULATION.
5. ROOF CURB, CANT STRIP, FLASHING & COUNTER-FLASHING.
6. DISCHARGE GOOSENECK. SEAL ALL JOINTS.

GOOSENECK DISCHARGE
N.T.S.



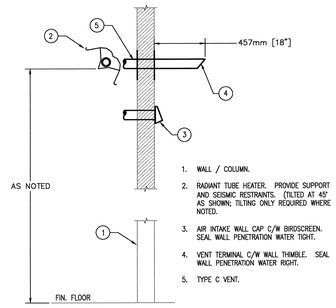
1. DISCONNECT SWITCH UNDER HOOD.
2. BIRD GUARD
3. CAULK ALL AROUND
4. GALVANIZED LAG SCREW TO BASE
5. FLASHING & COUNTER FLASHING
6. FAN MANUFACTURER'S CURB MIN. 200mm ABOVE FINISHED ROOF ELEVATION. COORDINATE CURB HEIGHT REQUIREMENT WITH ROOFING CONTRACTOR & ARCH DWG.
7. BACKDRAFT DAMPER
8. EXHAUST DUCT

ROOF EXHAUST FAN
N.T.S.



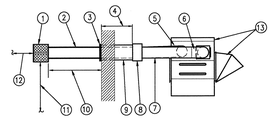
1. RELIEF VENT AS SPECIFIED ON PLAN.
2. CAULK ALL AROUND.
3. GALV. LAG SCREW TO BASE.
4. 305mm FIELD BUILT CURB.
5. FLASHING & COUNTER – FLASHING.
6. FABRIC BACKDRAFT DAMPER.
7. DUCT PLENUM

GRAVITY RELIEF AIR HOOD
N.T.S.



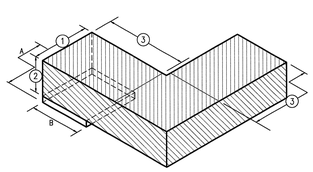
1. WALL / COLUMN.
2. RADIANT TUBE HEATER. PROVIDE SUPPORT AND SEISMIC RESTRAINTS. (TILTED AT 45° AS SHOWN; TILTING ONLY REQUIRED WHERE NOTED.
3. AIR INTAKE WALL CAP C/W BIRDSCREEN. SEAL WALL PENETRATION WATER TIGHT.
4. VENT TERMINAL C/W WALL THIMBLE. SEAL WALL PENETRATION WATER RIGHT.
5. TYPE C VENT.

RADIANT TUBE HEATER SIDEWALL VENTING
N.T.S.



1. SCREENED EXHAUST CAP SUPPLIED WITH UNIT.
2. 125mm(5")ø FLUE EXHAUST. PITCH TO DRAIN.
3. SCREENED INLET SUPPLIED WITH UNIT.
4. 300mm(12")MIN. TO 1525mm(5'-0") MAX.
5. 150mm(6")ø EXHAUST AIR PIPE.
6. 150mm(6")ø COMBUSTION AIR PIPE.
7. SEAL ALL FLUE & DUCT PIPES WITH 288°C(550°F) TAPE OR EQUIVALENT.
8. CONCENTRIC ADAPTER ASSEMBLY SUPPLIED WITH UNIT.
9. 200mm(8")ø COMBUSTION AIR PIPE. PITCH TO DRAIN.
10. 410mm(16")MIN TO 610mm(24")MAX.
11. 910mm(36")MIN. TO ADJOINING BUILDING.
12. 1828mm(72")MIN. TO ADJOINING BUILDING.
13. UNIT HEATER WITH 60° DOWNTURN NOZZLE.

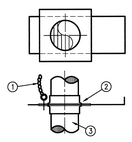
SEALED COMBUSTION UNIT HEATER
N.T.S.



1. 'A' DIMENSION + INSULATION.
2. 'B' DIMENSION + INSULATION FOR 152mm AND LESS.
3. 'B' DIMENSION X 1.50 + INSULATION FOR MORE THAN 152mm.
4. 2 X THE LARGER OF 'A' OR 'B'.

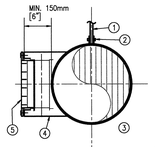
REFER TO PLAN FOR ELBOW ARRANGEMENTS.

TYPICAL RETURN/TRANSFER DUCT
N.T.S.



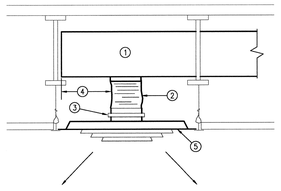
1. SLIDING GATE C/W CHAIN SECURE TO BODY.
2. ECCO OR APPROVED EQUAL BLAST GATE.
3. BRANCH DUCT FROM MACHINE OR FLOOR SWEEP.

BLAST GATE
N.T.S.



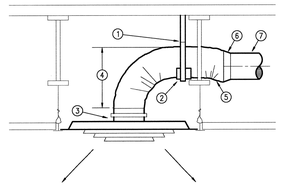
1. 9mm(3/8") HANGER ROD @ 3650mm(12'-0") O.C. 12mm(1/2")ø HANGER ROD ON DUCTS OVER 914mm(36")ø.
2. 9mm(3/8") BOLT MIN.
3. CONTINUOUS SUPPORT BAND. 25mm(1")x20 GA. UP TO 450mm(18")ø 25mm(1")x18 GA. UP TO 914mm(36")ø 25mm(1")x16 GA. OVER 914mm(36")ø
4. DUCT TAKEOFF SIZED TO MATCH REGISTER FRAME OVERALL DIMENSIONS.
5. SUPPLY REGISTER C/W OPPOSED BLADE VOLUME DAMPER AS SCHEDULED.

EXPOSED ROUND DUCT WITH SUPPLY REGISTER
N.T.S.



1. RIGID STEEL DUCT
2. FLEXIBLE DUCT AS SPECIFIED. MAX. LENGTH 1829mm (6'-0"). FLEXIBLE DUCT SHALL BE THE SAME SIZE AS DIFFUSER CONNECTION.
3. PLASTIC ELECTRICAL TIE AND DUCT SEALANT TO NECK
4. TWO NECK DIA. MIN. OFFSET
5. DIFFUSER AS SCHEDULED

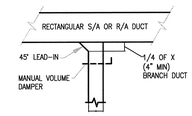
FLEXIBLE DUCT/DIFFUSER CONNECTION
N.T.S.



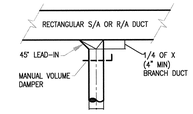
1. SUPPORT FLEXIBLE DUCT CLOSE TO DIFFUSER NECK WITH DUCT STRAP
2. 100mm(4") SHEET METAL SHIELD TO PREVENT PINCHING
3. PLASTIC ELECTRICAL TIE AND DUCT SEALANT TO NECK
4. TWO NECK DIA. MIN. OFFSET (SEE NOTE)
5. FLEXIBLE DUCT AS SPECIFIED. MAX. LENGTH 1829mm(6'-0"). FLEXIBLE DUCT SHALL BE THE SAME SIZE AS DIFFUSER CONNECTION.
6. PROVIDE DUCT TRANSITION UPSTREAM OF FLEXIBLE DUCT IF SHEET METAL DUCT SIZE IS DIFFERENT FROM NECK SIZE.
7. METAL DUCT, SIZE AS NOTED ON DRAWING. WHERE BRANCH DUCT SIZE IS NOT NOTED ON THE DRAWING, DUCT SHALL BE SIZED PER "SUPPLY BRANCH DUCT SIZE SCHEDULE".

NOTE:
IF CEILING SPACE DOES NOT PERMIT 2 NECK DIAMETERS CLEARANCE, (ie. MIN. 30" FOR 12" DIFFUSERS) USE RIGID SHEET METAL DUCT WITH CUSHION HEAD.

FLEXIBLE DUCT/DIFFUSER CONNECTION
N.T.S.

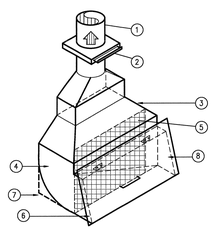


(RECTANGULAR DUCT TAKE-OFF)



(ROUND DUCT TAKE-OFF)

DUCT BRANCH TAKE-OFF DETAIL
N.T.S.

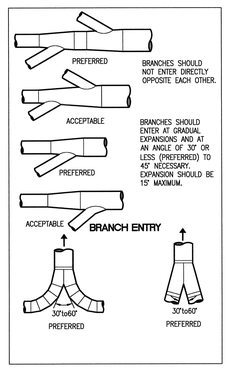


1. BRANCH RISER.
2. BLAST GATE.
3. TRANSITION TO DUCT RISER.
4. OPEN SCOOP AND TRANSITION TO BE 16 GA. WITH BRACED SEAMS.
5. MESH.
6. NEOPRENE GASKET AROUND PERIMETER OF HINGED COVER PLATE.
7. TRIM PIECE TO CLOSE OFF SPACE BETWEEN DUCT, FLOOR AND WALL. (BOTH SIDES)
8. 10 G.A. COVER PLATE. COVER PLATE TO BE FULL OPENING WITH SPRING RETURN HINGE.

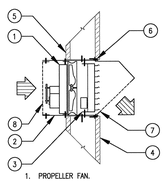
MOUTH OPENING mm (inches)	TOTAL EXHAUST VOLUME L/S (CFM)	BRANCH DIA. mm (inches)
254x102 (10"x4")	378 (800)	150 (6)

FACE VELOCITY: Minimum = 14.23 m/s (2800 fpm)

FLOOR SWEEP EXHAUST DETAIL
N.T.S.



PRINCIPLES OF DUST COLLECTION DUCT CONSTRUCTION
N.T.S.



1. PROPELLER FAN.
2. 16 GA. WALL SLEEVE.
3. MOTORIZED WALL SHUTTER.
4. EXTERIOR WALL.
5. INTERIOR WALL.
6. FASTENER. COORDINATE STRUCTURAL MEMBERS FOR EQUIPMENT SUPPORT WITH PROJECT STRUCTURAL ENGINEER.
7. WEATHER HOOD
8. OSHA MOTOR GUARD

WALL PROPELLER FAN
N.T.S.

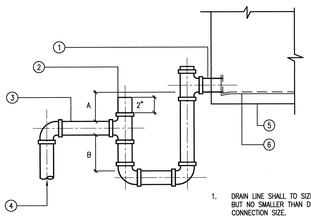


TABLE 1 – CONDENSATE PIPE CONFIGURATION

UNIT TYPE	A	B
DRAW THROUGH	S.P. + 1"	2"
BLOW THROUGH	2"	S.P. + 1"

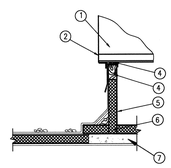
S.P. – FAN STATIC PRESSURE (IN. W.G.)

TABLE 2 – CONDENSATE PIPE SIZE

EQUIPMENT COOLING CAPACITY	MIN. CONDENSATE PIPE DIA.
UP TO 20 TON (70.3 kW)	3/4" (20mm)
20–40 TON (70.3–141 kW)	1" (25mm)
40–90 TON (141–317 kW)	1–1/4" (32mm)
90–125 TON (317–440 kW)	1–1/2" (40mm)
125–250 TON (440–879 kW)	2" (50mm)

1. DRAIN LINE SHALL TO SIZED PER TABLE 2 BUT NO SMALLER THAN DRAIN PAN CONNECTION SIZE.
2. OPEN TO ATMOSPHERE.
3. PITCH DOWN TOWARD DRAIN.
4. SEE PLUMBING DRAWINGS FOR CONTINUATION.
5. EQUIPMENT WITH COOLING COIL.
6. DRAIN PAN.

DRAIN AND TRAP FROM COOLING COIL
N.T.S.



1. ROOFTOP UNIT
2. SEISMIC RESTRAINT TO MANUFACTURER'S SPECIFICATIONS
3. NEOPRENE SEAL
4. NAILER STRIP
5. ROOFTOP UNIT CURB, REFER TO STRUCTURAL DRAWINGS FOR MOUNTING.
6. ROOFING CONTRACTOR TO PROVIDE RIGID INSULATION TO UNDERSIDE OF NAILER STRIP. EXTEND ROOFING MEMBRANE UP SIDE OF CURB WITH FLASHING & COUNTER FLASHING
7. CONCRETE PAD PER STRUCTURAL DRAWING. ANCHOR ROOF CURB TO CONCRETE PAD.

ROOFTOP UNIT CURB
N.T.S.

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

PWGSC – AO – 1189X841

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REGISTERED PROFESSIONAL ENGINEER G. S. PINDER # 26047 PROVINCE OF BRITISH COLUMBIA
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PLUMBING SYMBOLS	
SYMBOL	DESCRIPTIONS
—·—·—	DOMESTIC COLD WATER
—··—	DOMESTIC HOT WATER
—·-·—	DOMESTIC TEMPERED HOT WATER
—···—	DOMESTIC HOT WATER RECIRCULATION
—·/·—	DOMESTIC HOT WATER, HEAT TRACED
—S—	SANITARY DRAIN/SEWER
—ST—	STORM DRAIN/SEWER
—G—	GAS
— —X— —	SUBSOIL DRAIN
—A—	COMPRESSED AIR
—SOLV—	SOLVENT WASTE
—→—	FLOW DIRECTION
—○—	PIPE RISER
—⊙—	PIPE DROP
--------	SANITARY VENT
--------	DRAIN LINE BELOW SLAB
—COND—	CONDENSATE DRAIN
—·—R—·—	IRRIGATION WATER LINE
—·—⫤	PIPE CAP
—⊕—	UNION
⊣	HOSE BIBB
⊕	NON-FREEZE WALL HYDRANT
CO CO	CLEANOUT
	VENT TERMINATION
⊠	FLOOR DRAIN
⊙	ROOF DRAIN
▤	CATCH BASIN
⊗	MANHOLE

PLUMBING SYMBOLS	
SYMBOL	DESCRIPTIONS
	ISOLATION VALVE
	CHECK VALVE
	STRAINER
	2-WAY CONTROL VALVE, MODULATING
	2-WAY CONTROL VALVE, 2-POSITION
	SOLENOID VALVE
	FLOW MEASUREMENT VALVE (CALIBRATED BALANCING VALVE)
	TEMPERATURE & PRESSURE RELIEF VALVE
	PRESSURE REDUCING VALVE
	AUTOMATIC AIR VENT W/ ISOLATION VALVE
	SUPERVISED SHUT-OFF VALVE
	BACKFLOW PREVENTOR
	PUMP
A	AIR VENT
V	VACUUM BREAKER
	THERMOMETER
	CONCRETE THRUST BLOCK
	PIPE ANCHOR
	FLEXIBLE PIPE CONNECTOR
	EXPANSION JOINT & GUIDES
	POINT OF CONNECTION
	POINT OF DISCONNECTION
VAxx	EQUIPMENT TAG
XX (XX)	SIZE OF PIPE (FIXTURE UNITS)
A	COMPRESSED AIR SERVICE DROP
W	HOSE BIBB
WH	WALL HYDRANT

ABBREVIATIONS	
ABBREV.	DESCRIPTIONS
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
BLDG	BUILDING
CONC.	CONCRETE
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RECIRCULATION
DIA.	DIAMETER
DN	DOWN
DWG	DRAWING
ELEV.	ELEVATION
FD	FLOOR DRAIN
HB	HOSE BIBB
INV.	INVERT
NIC	NOT IN CONTRACT
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
O.C.	ON CENTRE
OPNG	OPENING
P	PUMP
P.D.	PRESSURE DROP
PRV	PRESSURE REDUCING VALVE
RE & RE	REMOVE & REINSTALL
RE & REL	REMOVE & RELOCATE
RE & REP	REMOVE & REPLACE (WITH NEW)
RPBF	REDUCED PRESSURE BACKFLOW PREVENTOR
SPEC.	SPECIFICATIONS
TYP.	TYPICAL
U/G	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UTR	UP THROUGH ROOF

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PWGSC Regional Manager, Architectural and Engineering Services/ Gestionnaire régional, Services d'architectural et de génie, TPSGC
PREETIPAUL PAUL

Drawing title/Titre du dessin

LEGEND
PLUMBING

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	P-1 5	1

PWGSC – A0 – 1189X841

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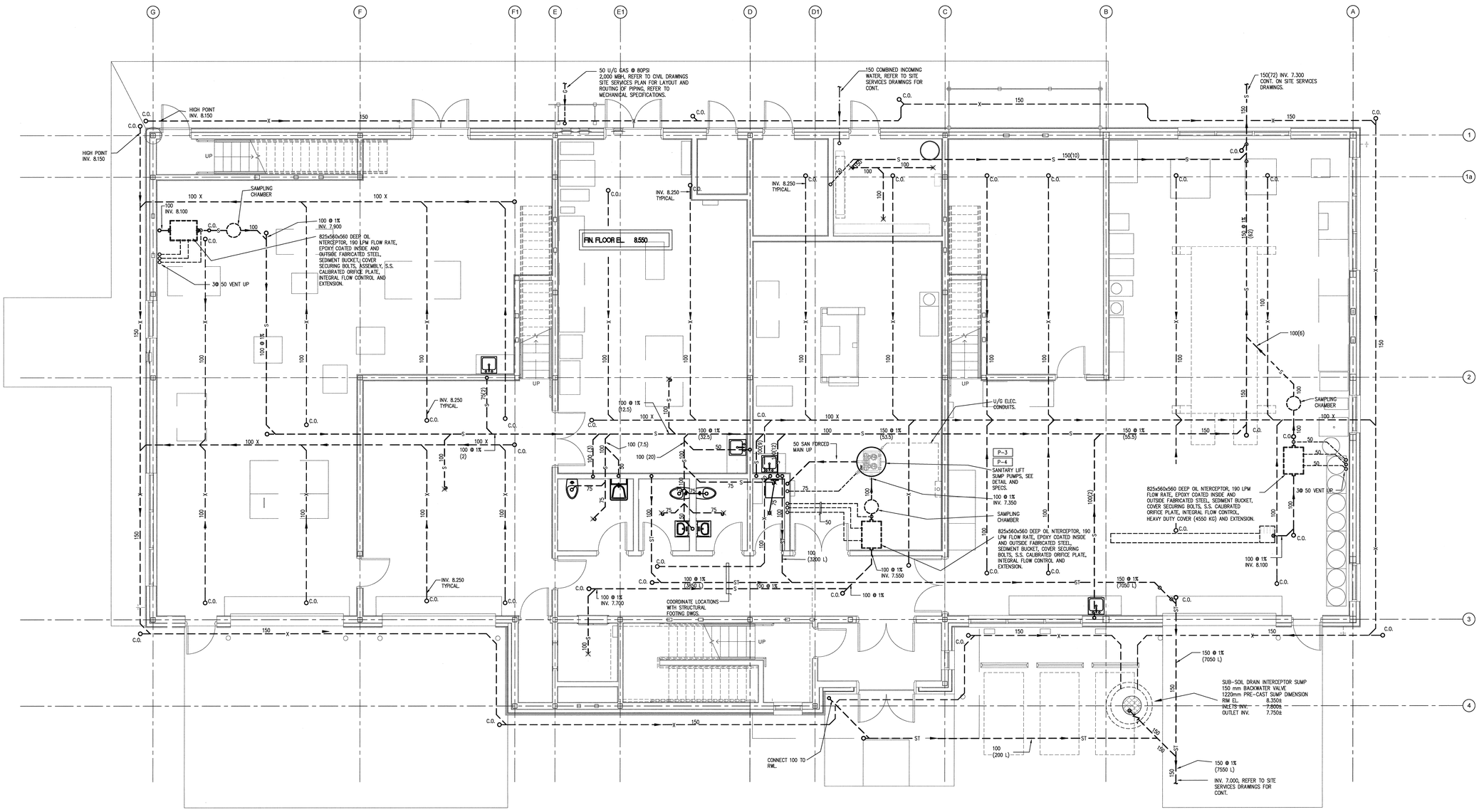

UNDERSLAB MAIN FLOOR PLAN
1:50

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

J.M BEAN & CO. LTD
MEMBER OF
INTEGRAL GROUP

Project Reference No:1524.00

PROFESSIONAL ENGINEER G. S. FINDER # 16047 PROVINCE OF BRITISH COLUMBIA
01 MAY 2018

Revision/ Revision	Description/Description	Date/Date
1	ISSUED FOR TENDER	2018-05-02

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
RV/MM

Drawn by/Dessine par
RV/VC

PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAIR

PWGSC Regional Manager, Architectural and Engineering Services/ Gestionnaire régional, Services d'architectural et de génie, TPSGC
PREETIPAUL PAUL

Drawing title/Titre du dessin

UNDERSLAB MAIN FLOOR PLAN PLUMBING

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	P-2 of 5	1

PWGSC – A0 – 1189X841

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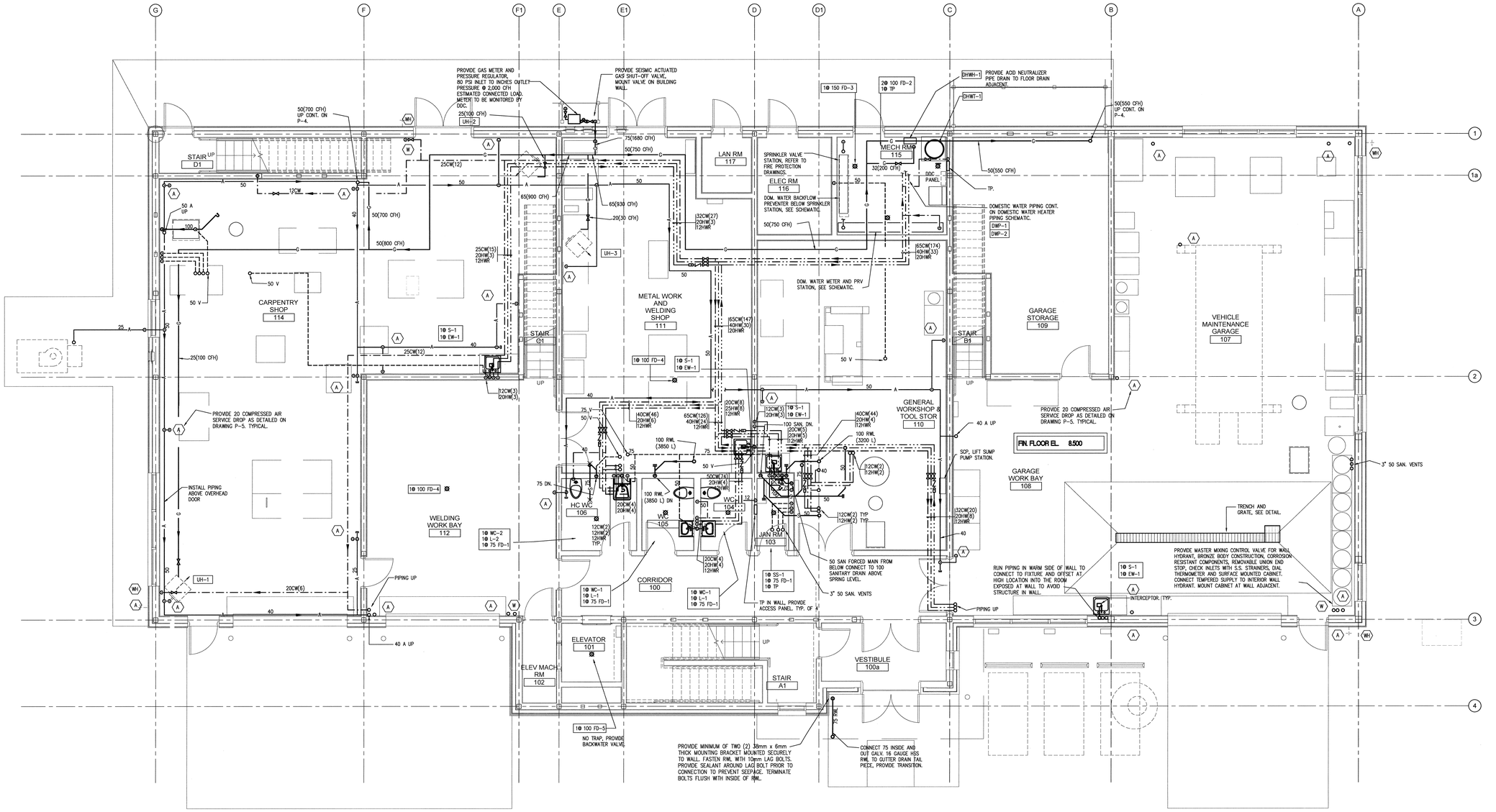

MAIN FLOOR PLAN
1: 50

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

JM BEAN & CO. LTD
MEMBER OF
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Project Reference No:1524.00

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA G. S. PINDER # 36047 SCIENTIST

01 MAY 2018

Revision/ Revision	Description/Description	Date/Date
1	ISSUED FOR TENDER	2018-05-02

Client/client

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MAIN FLOOR PLAN
PLUMBING

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R.069377.001	P-3 of 5	1

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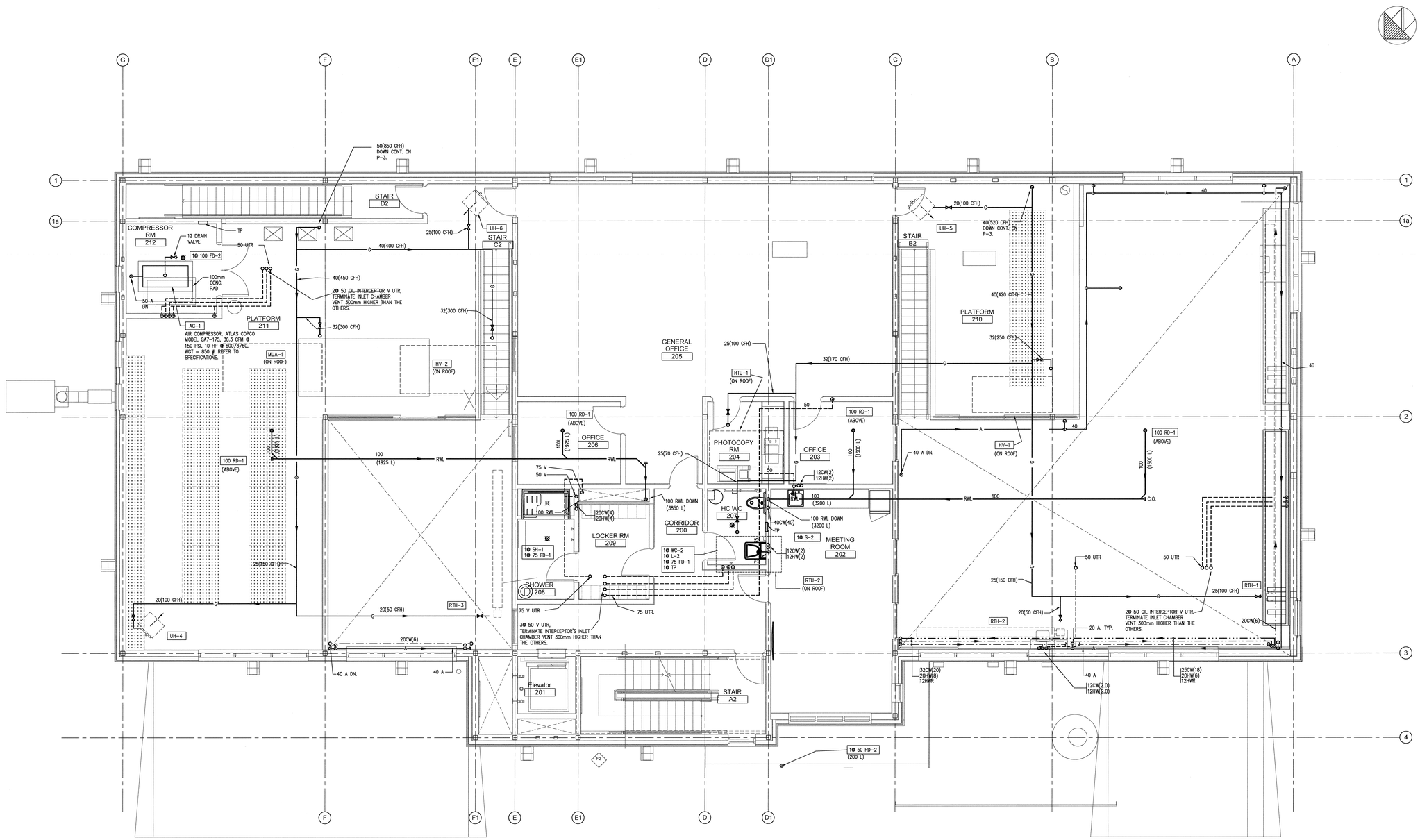
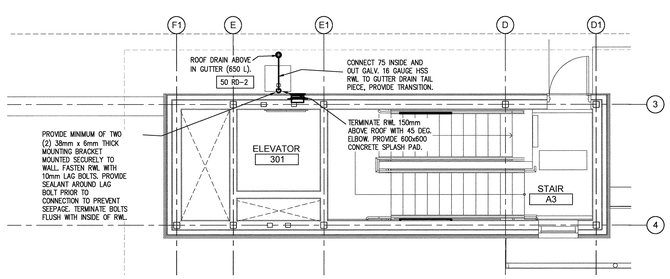


UPPER FLOOR PLAN
1:50



STAIRWELL PLAN • ROOF LEVEL
1:50

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

J M BEAN & CO. LTD
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Project Reference No:1524.00

PROFESSIONAL ENGINEER G. S. PINDER # 30047 PROVINCE OF BRITISH COLUMBIA
07 MAY 2018

Revision/ Revisions	Description/Description	Date/Date
1	ISSUED FOR TENDER	2018-05-02

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

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Drawn by/Dessine par: RV/VC

PWGSC Project Manager/Administrateur de Projets TPSGC: DARYL SINCLAR

PWGSC, Regional Manager, Architectural and Engineering Services/ TPSGC, Gestionnaire régional, Services d'architecture et de génie: PREETIPAUL PAUL

Drawing title/Titre du dessin

UPPER FLOOR PLAN AND STAIRWELL PLAN @ ROOF LEVEL PLUMBING

Project No./No. du projet	Sheet/ Feuille	Revision no./ No. de Révision no.
R.069377.001	P-4 5	1

PWGSC – A0 – 1189X841

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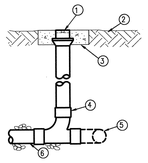
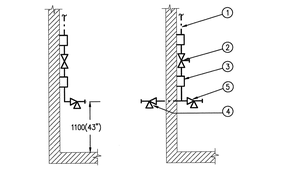


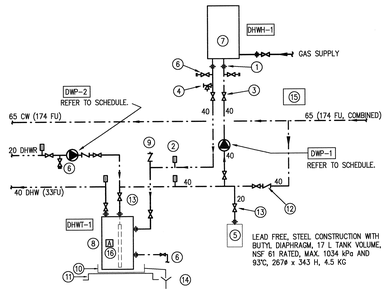
1. C.I. CLEANOUT FERRULE WITH BRONZE PLUG 100mm(4")
2. FINISH GRADE.
3. 406 x 406 x 100mm(16"x16"x4") CONCRETE PAD.
4. 100mm(4") PVC FITTING AS SPECIFIED.
5. AT END OF RUN PROVIDE PVC CAP.
6. PERFORATED PVC AS SPECIFIED.

SUB-SOIL DRAIN CLEANOUT
N.T.S.



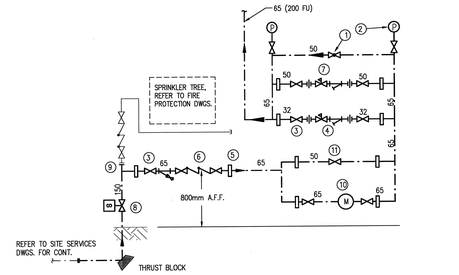
1. PIPE SIZE 20mm(3/4") TO SINGLE FIXTURE 25mm(1") TO PAIR.
2. COMP. STOP & WASTE.
3. FASTENED TO WALL OR COLUMN WITH UNISTRUT CHANNEL & CLAMP.
4. WALL HYDRANT (WH) AS SPECIFIED.
5. HOSE BIBB C/W FEMALE 90° DROP EAR ELBOW & VACUUM BREAKER. (W)

WATER SERVICE DROP
N.T.S.



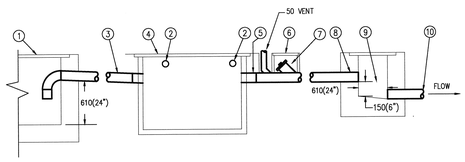
1. UNION
2. THERMOMETER
3. BALL VALVE
4. PRESSURE RELIEF VALVE (PIPE TO FLOOR DRAIN)
5. EXPANSION ABSORBER (STAND MODEL ASME RATED, 20mm SYSTEM CONNECTION). PROVIDE WALL BRACKET.
6. DRAIN VALVE.
7. INSTANTANEOUS HOT WATER HEATER (199 MBH) WITH CONTROLLER. REFER TO SPECIFICATIONS.
8. 30 GAL. ELECTRIC HOT WATER HEATER (NOT POWERED, USED AS BUFFER TANK). COORD. W/ DIV. 26 TO RE-WIRE ACQUASTAT AND INTERLOCK WITH DWP-1.
9. 20mm ANTI SIPHON INLET VACUUM RELIEF VALVE.
10. PROVIDE GALVANIZED SHEET METAL DRAIN PAN PIPED TO FLOOR DRAIN.
11. HOUSEKEEPING PAD
12. CHECK VALVE
13. LOCKSHIELD VALVE
14. FLOOR DRAIN
15. INSTALL DHWH VENT AND DRAIN TO ACID NEUTRALIZER MANUFACTURER'S RECOMMENDATION.
16. AQUASTAT.

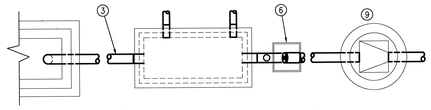
DOMESTIC HOT WATER HEATER PIPING SCHEMATIC
N.T.S.



1. GLOBE THROTTLING VALVE.
2. 75mm (3")ø PRESSURE GAUGE SNUBBER & PETCOCK.
3. GATE VALVE.
4. 20mm PRV. 20 GPM @ 8 PSI FALL-OFF PRESSURE. C/W INTEGRAL STRAINER.
5. ANCHOR BRACKETS. ASSEMBLY TO BE AS CLOSE TO WALL AS POSSIBLE.
6. DOUBLE CHECK BACK FLOW PREVENTER WITH STRAINER.
7. 50mm PRV. 70 GPM @ 12 PSI FALL-OFF PRESSURE. C/W INTEGRAL STRAINER.
8. COMBINED INCOMING WATER SERVICE WITH SUPERVISED VALVE.
9. PROVIDE FIRE PROTECTION SYSTEM CONNECTION, COORDINATE WITH SPRINKLER CONTRACTOR.
10. PROVIDE 50mm WATER METER WITH REMOTE READER, MONITORED BY DDC.
11. WATER METER BYPASS

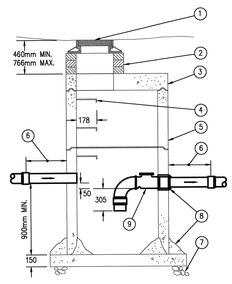
BACKFLOW PREVENTER AND PRESSURE REDUCING STATION
N.T.S.





1. H20 LOADING SUMP TRENCH GRATE, SEE DETAIL
2. 50mm (2") VENT.
3. 100mm(4") C.I. FROM SAND TRAP TO INTERCEPTOR (LENGTH VARIES).
4. NON-SKID REMOVABLE COVER, SEE PLAN FOR LOADING DUTY.
5. 100mm(4") C.I. TO SEWER CONNECT.
6. H20 HEAVY DUTY IRON COVER 20mm(3/4") THICK OVER CLEANOUT RECESS.
7. 100mm(4") C.I. Y-CLEANOUT.
8. 100mm(4") C.I. INLET.
9. SAMPLING CHAMBER.
10. 100mm(4") C.I. OUTLET.

OIL INTERCEPTOR
N.T.S.

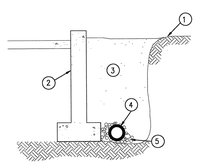


1. COVER & FRAME.
2. BRICK BUILD-UP TO SUIT.
3. OCEAN CEMENT H-20 LID.
4. 20# GALV. LADDER RUNGS @ 460mm O.C.
5. OCEAN CEMENT REINFORCED CONCRETE SECTIONS.
6. INLET & OUTLET WITH FIRST JOINT AT 1500mm MAXIMUM.
7. 150mm LAYER OF COARSE GRAVEL.
8. GROUTING.
9. BACKWATER VALVE INSTALLED TO SUIT.

FOR SUMP SIZE AND PIPE INVERTS SEE PLAN.

SUMP DETAIL
N.T.S.

NOTE:
REFER TO ARCHITECTURAL DRAWINGS FOR GEO TEXTILE FILTER CLOTH REQUIREMENTS



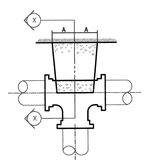
1. FINISH GRADE.
2. FOUNDATION WALL.
3. BACKFILL MATERIAL, REFER TO SOILS SPECIFICATION.
4. SUB-SOIL DRAIN PIPE.
5. GRANULAR FILL AS SPECIFIED.

SUB-SOIL DRAIN
N.T.S.

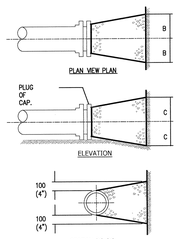
AIR SERVICE DROPS
N.T.S.

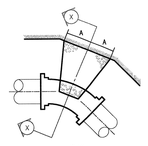
1. 20mm(3/4") PIPE.
2. 100x250mm(4"x10") LONG PIPE.
3. 15mm(1/2") PIPE.
4. BALL VALVE.
5. 90 DEGREE ELBOW.
6. NIPPLE.
7. TEE.
8. AIR MAIN. SLOPE 0.5% TO DRAIN.
9. PIPING CAP.
10. DRAIN DROPS MAY BE USED AS SERVICE DROPS IF EXTRA BALL VALVE IS USED.
11. DROPS SIZED AS SHOWN ON PLAN
12. FASTENED TO WALL OR COLUMN WITH UNISTRUT CHANNEL & CLAMP.
13. FILTER COUPLING ETC. SUPPLIED BY OWNER. CAP OUTLET TEMPORARILY DURING CONSTRUCTION.
14. 250mm(10") MIN. DIRT POCKET.

COMPRESSED AIR DETAILS
N.T.S.



PLAN





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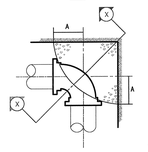
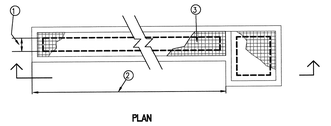


MINIMUM DIMENSIONS			
SIZE OF PIPE	A	B	C
4" (100)	6" (150)	6" (150)	6" (150)
6" (150)	9.25" (230)	9.25" (230)	8" (200)
8" (200)	9.25" (230)	12" (300)	8" (200)
10" (250)	12" (300)	15.25" (380)	10" (250)
12" (300)	15.25" (380)	18" (450)	12" (300)
14" (350)	18" (450)	550 (22")	15.25" (380)
16" (400)	20" (500)	24" (600)	18" (450)

NOTES:
1. ALL CONCRETE TO BE 20 MPa (2900 psi) MIN.
2. ALL CONCRETE BLOCKING TO BE POURED AGAINST UNDISTURBED GROUND.
3. CLEARANCE OF 3½" (80mm) TO BE MAINTAINED FROM FACE OF BELL TO CONCRETE.
4. POLYETHYLENE BOND BREAKER TO BE USED BETWEEN CONCRETE AND FITTING.
5. THIS BLOCKING DESIGN APPLIES ONLY WHERE 1030 KPa Pa (150psi) PRESSURE IS NOT EXCEEDED.

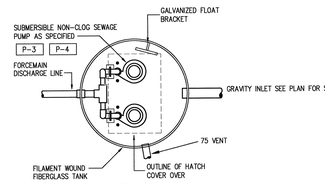
THRUST BLOCK DETAIL
N.T.S.



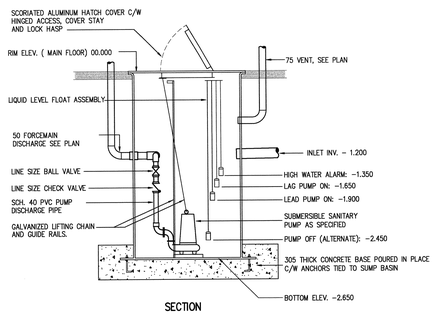
SECTION

1. 240mm(9-1/2") INSIDE DIMENSION
2. LENGTH TO SUIT
3. HEAVY DUTY DRAIN GRATE. 292 x 1220mm (11"x 48") NOM. SIZE SECTIONS, H20 LOADING.
4. SLOPE 2%
5. H-20 LOADING DRAIN GRATE & FRAME (582 X 582mm).
6. REMOVABLE ELBOW WITH EXTENSION AS REQUIRED. PIPE SIZE AS SHOWN ON PLAN.
7. 6X38X38 STEEL ANGLE IRON FRAME. ANCHOR TO CONCRETE WITH 10mm STEEL ROD ANCHORS AT 460 O.C.

TRENCH GRATE
N.T.S.

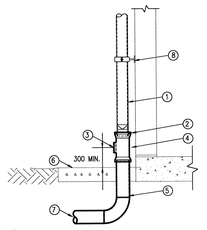


PLAN



SECTION

SANITARY LIFT SUMP PUMPS
N.T.S.



1. RAINWATER LEADER.
2. "O" RING GASKET BETWEEN RWL & CLEANOUT TO SEAL GAP
3. C.O. PLUG
4. 100 DIA. CI DWV IN-LINE CLEANOUT.
5. CI STORM SEWER (REFER TO PLAN FOR SIZE)
6. FINISHED GRADE
7. PVC, FOR CONT. SEE PLAN.
8. PIPE CLAMP @ MAX. 2,400 O.C. ROUND OFF ALL SHARP EDGES.

EXTERIOR RAINWATER LEADER BASE
N.T.S.

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

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PROFESSIONAL ENGINEER
G. R. PINDER
31047
PROVINCE OF BRITISH COLUMBIA
01 MAY 2018

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PREETIPAUL PAUL

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DETAILS PLUMBING

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8/4/2015 2:21:20 PM

PWGSC – A0 – 1189X841

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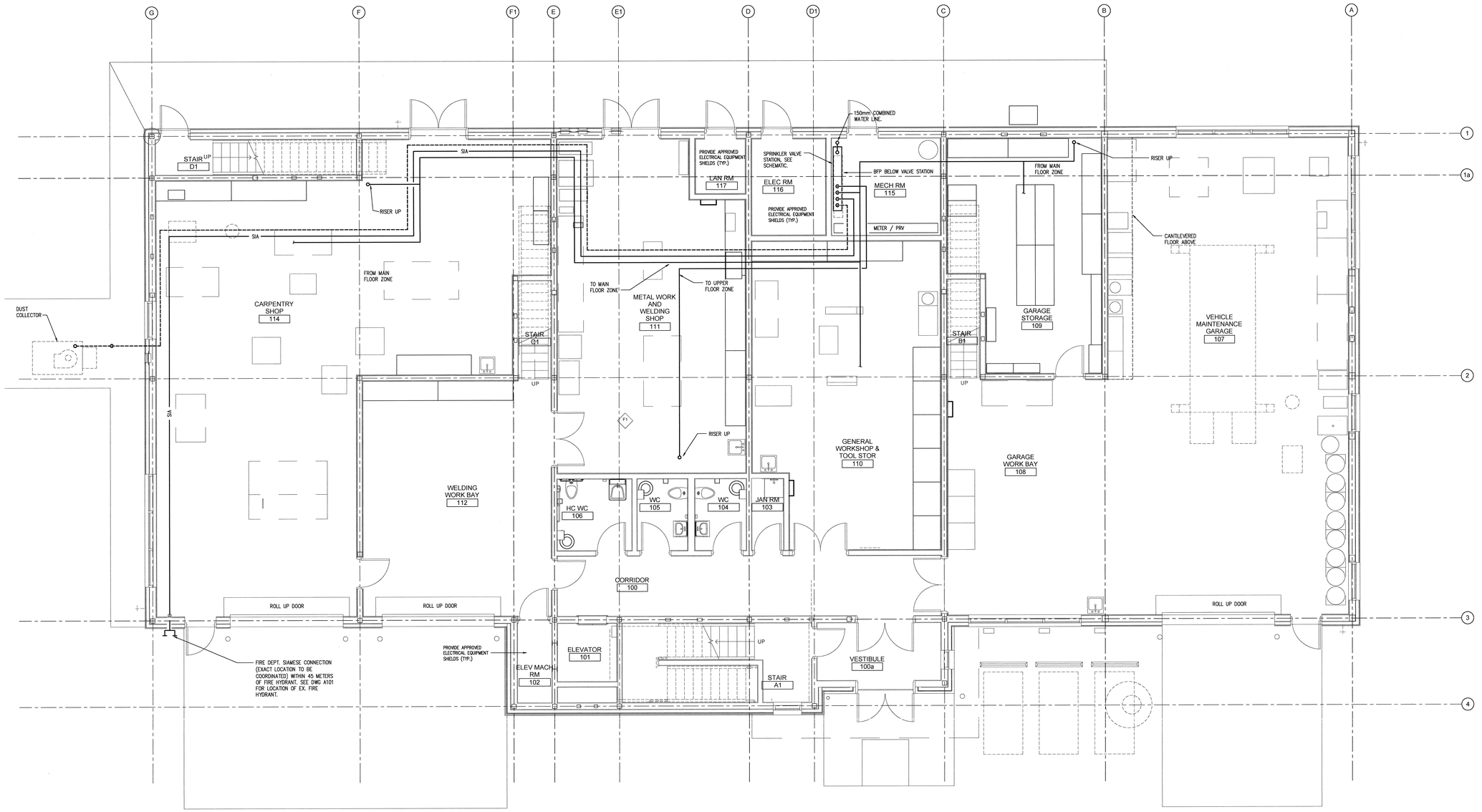
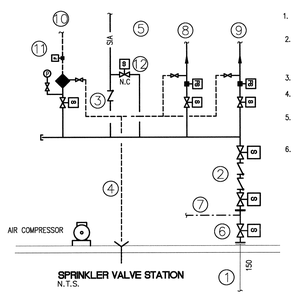


MAIN FLOOR PLAN
1: 50



SPRINKLER VALVE STATION
N.T.S.

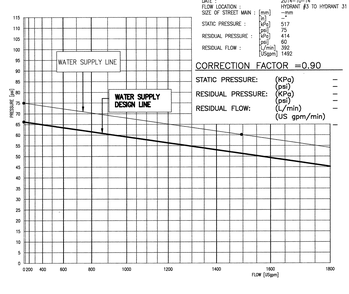
1. FROM STREET MAIN. REFER TO CIVIL DRAWINGS.
2. APPROVED DOUBLE CHECK VALVE ASSEMBLY (IN VERTICAL ORIENTATION).
3. CHECK VALVE WITH BALL DRIP.
4. SPRINKLER DRAIN PIPED TO FLOOR DRAIN
5. TO FIRE DEPT. SIAMESE CONNECTION. LINE TO BE HYDROSTATICALLY TESTED.
6. SUPERVISED MAIN SHUT OFF OS AND Y VALVE, REFER TO PLUMBING DRAWINGS.
7. DOMESTIC WATER CONNECTION. REFER TO PLUMBING DRAWING P-2 FOR CONTINUATION.
8. WET SPRINKLER SYSTEM TO MAIN FLOOR ZONE
9. WET SPRINKLER SYSTEM TO UPPER FLOOR ZONE
10. DRY SPRINKLER SYSTEM TO DUST COLLECTOR.
11. PRESSURE SWITCH – LOW SYSTEM PRESSURE TROUBLE ALARM.
12. SUPERVISED BACKFLOW PREVENTER TEST DRAIN SIZED FOR SYSTEM DEMMAND, DISCHARGE TO OUTSIDE AT A LOCATION AVOIDING FLOODING AND DAMAGE TO LANDSCAPE.

WATER SUPPLY DATA

SUPPLIED BY :		S.M.L. FIRE PROTECTION LTD.
DATE :		2014-10-14
FLOW LOCATION: SIZE OF STREET MAIN :	(mm)	200mm HYDRANT #3 TO HYDRANT 31 —
	(in)	2"
STATIC PRESSURE :	(kPa)	517
	(psi)	75
RESIDUAL PRESSURE :	(kPa)	414
	(psi)	60
RESIDUAL FLOW :	(L/min)	592
	(US gpm)	1440

CORRECTION FACTOR =0.90

STATIC PRESSURE:	(KPa)	–
	(psi)	–
RESIDUAL PRESSURE:	(KPa)	–
	(psi)	–
RESIDUAL FLOW:	(L/min)	–
	(US gpm/min)	–



GENERAL NOTES:

1. PROVIDE THE DESIGN AND INSTALLATION OF SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13–2013 AND LOCAL CODES. PROVIDE SPRINKLER ENGINEER SERVICE WITH LETTERS OF ASSURANCE. REFER TO SPECIFICATIONS.
2. BUILDING MAJOR OCCUPANCY IS ORDINARY HAZARD GROUP 2 EXCEPT AS NOTED BELOW:
   - MECHANICAL, ELECTRICAL, STORAGE ROOMS – ORDINARY HAZARD GROUP 1 (MAX. 8'–0" STORAGE)
   - OFFICES – LIGHT HAZARD
3. INSTALL HANGERS AT 2,440 O.C. ON ALL PIPING 2,440 AFF OR LOWER.
4. REFLECTED CEILING PLAN, LIGHTING AND DUCTWORK LAYOUTS, REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. CONFIRM WITH DRAWINGS BY OTHERS.
5. ALLOW FOR CUTTING AND PATCHING.
6. PROVIDE APPROVED ELECTRICAL EQUIPMENT SHIELDS FOR ELECTRICAL EQUIPMENT PROTECTION.
7. PROVIDE APPROVED SPRINKLER HEAD GUARDS FOR SPRINKLERS IN THE STORAGE, SERVICE ROOMS, MECHANICAL ROOMS, ELEVATOR, UNDER STAIRS AND SHOPS.

FIRE PROTECTION LEGEND

- RECESSED, 15mm (1/2"), 'K' FACTOR 80.7(5.6), 74°C(165°F), CHROME w/CHROME PLATED ESCUTCHEON.
- UPRIGHT OR PENDENT, 15mm (1/2"), 'K' FACTOR 80.7(5.6), 100°C(212°F), BRASS
- PENDENT, 15mm (1/2"), 'K' FACTOR 80.7(5.6), 74°C(165°F), CHROME w/CHROME PLATED TWO-PIECE ESCUTCHEON.
- FLUSH, CONCEALED, 15mm (1/2"), 'K' FACTOR 80.7(5.6), 74°C(165°F), CHROME w/CHROME PLATED ESCUTCHEON.
- RECESSED, QUICK RESPONSE, 15mm (1/2"), 'K' FACTOR 80.7(5.6), 74°C(165°F), CHROME w/CHROME PLATED ESCUTCHEON.
- UPRIGHT, 15mm (1/2"), 'K' FACTOR 80.7(5.6), 100°C (212°F), BRASS, AND RECESSED, 15mm (1/2"), 'K' FACTOR 80.7(5.6), 74°C(165°F), CHROME w/CHROME PLATED ESCUTCHEON.
- DRY PENDENT, 15mm (1/2"), 'K' FACTOR 80.7(5.6), 100°C (212°F), CHROME w/CHROME PLATED ESCUTCHEON.
- SIDEWALL, 15mm (1/2"), 'K' FACTOR 80.7(5.6), 74°C (165°F), CHROME w/CHROME ESCUTCHEON.
- DRY SIDEWALL, 15mm (1/2"), 'K' FACTOR 80.7(5.6), 74°C (165°F), CHROME w/CHROME ESCUTCHEON.
- INDICATES CHROME PLATED LISTED GUARD.
- SIDEWALL, QUICK RESPONSE, 15mm (1/2"), 'K' FACTOR 80.7(5.6), 74°C(165°F), CHROME w/CHROME ESCUTCHEON.
- FLUSH, CONCEALED, INSTITUTIONAL, 15mm (1/2"), 'K' FACTOR 80.7(5.6), 74°C(165°F), CHROME w/CHROME PLATED ESCUTCHEON, TAMPER RESISTANT.
- WET ALARM VALVE
- DRY ALARM VALVE
- WATERFLOW SWITCH
- WATER PRESSURE SMITCH
- SUPERVISED SHUT–OFF VALVE
- WET SYSTEM PIPE
- DRY SYSTEM PIPE
- SIA SIAMESE

NOTE: SPRINKLERS IN LIGHT HAZARD OCCUPANCIES SHALL BE OF THE QUICK RESPONSE TYPE AS PER NFPA 13.

Public Works and Government Services Canada
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REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

J.M BEAN & CO.LTD
MEMBER OF
INTEGRAL GROUP

Project Reference No:1524.00

Revision/ Revision	Description/Description	Date/Date
1	ISSUED FOR TENDER	2015-05-02

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
RV/MM

Drawn by/Dessine par
RV/VC

PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAR

PWGSC Regional Manager, Architectural and Engineering Services/ TPSGC Gestionnaire régional, Services d'architecture et de génie, TPSGC
PREETIPAUL PAUL

Drawing title/Titre du dessin

MAIN FLOOR PLAN, LEGEND FIRE PROTECTION

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R.069377.001	F-1 2	1

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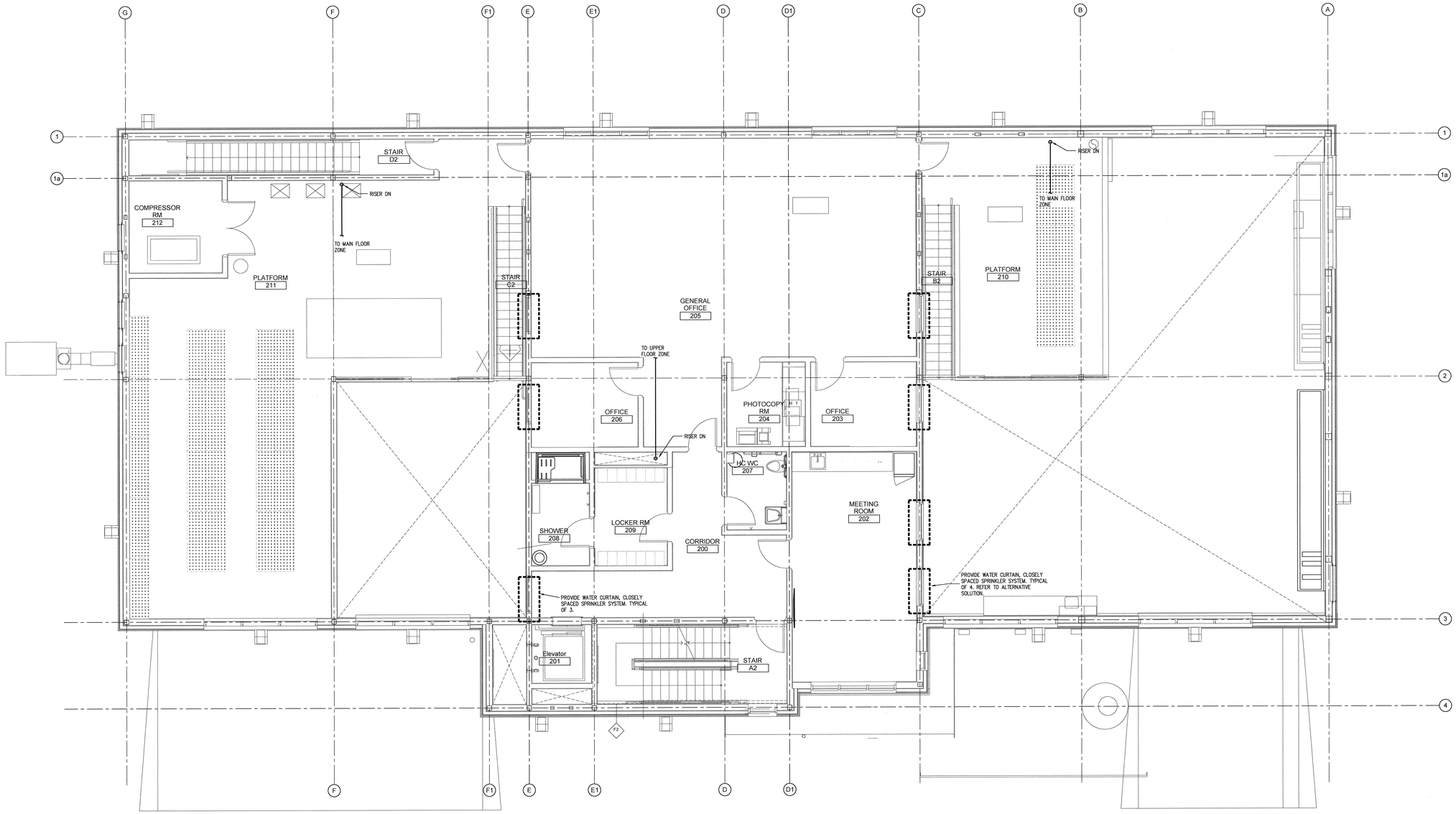

UPPER FLOOR PLAN
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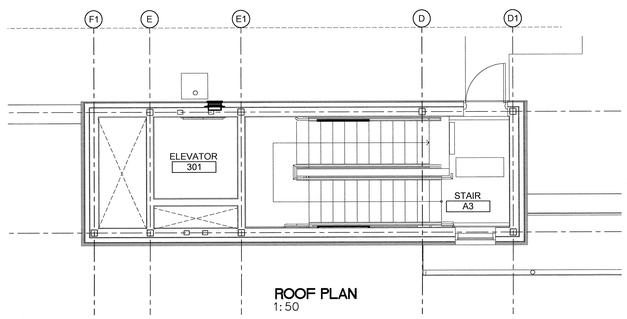

ROOF PLAN
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PWGSC – A0 – 1189X841

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Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

J M BEAN & CO. LTD
MEMBER OF
INTEGRAL GROUP

Project Reference No:1524.00

PROFESSIONAL ENGINEER
G. S. PAJOR
01 MAY 2018

1	ISSUED FOR TENDER	2018-05-02
Revision/ Revision	Description/Description	Date/Date

Client/client

CORRECTIONAL SERVICE CANADA

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PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAR

PWGSC Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architecture et de génie, TPSGC
PREETIPAUL PAUL

Drawing title/Titre du dessin

UPPER FLOOR PLAN AND STAIRWELL PLAN @ ROOF LEVEL FIRE PROTECTION

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	F-2 2	1

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LIGHTING PLAN SYMBOLS

Symbol	Description
	SURFACE MOUNTED OR SUSPENDED FLUORESCENT LUMINAIRE, 305x1220mm
	SURFACE MOUNTED OR SUSPENDED FLUORESCENT LUMINAIRE, 610x1220mm
	SURFACE MOUNTED OR SUSPENDED FLUORESCENT LUMINAIRE, 610x610mm
	RECESSED FLUORESCENT LUMINAIRE, 305x1220mm
	RECESSED FLUORESCENT LUMINAIRE, 610x1220mm
	RECESSED FLUORESCENT LUMINAIRE, 610x610mm
	FLUORESCENT STRIP LUMINAIRE, 1220mm
	FLUORESCENT STRIP LUMINAIRE, 915mm
	FLUORESCENT STRIP LUMINAIRE, 610mm
	WALL MOUNTED LINEAR FLUORESCENT LUMINAIRE, 1220mm
	WALL MOUNTED LINEAR FLUORESCENT LUMINAIRE, 915mm
	WALL MOUNTED LINEAR FLUORESCENT LUMINAIRE, 610mm
	RECESSED LUMINAIRE / POT LIGHT
	SURFACE MOUNTED OR SUSPENDED LUMINAIRE
	STEP OR WALL MOUNTED LUMINAIRE
	BOLLARD OR IN-GROUND LUMINAIRE
	POLE MOUNTED LUMINAIRE (SINGLE HEAD)
	POLE MOUNTED LUMINAIRE (DOUBLE HEAD)
	LUMINAIRE ON EMERGENCY CIRCUIT (INDICATED BY HALF SHADING)
	DIRECTIONAL / AIMED LUMINAIRE (ARROW INDICATES DIRECTION)
	CEILING MOUNTED EXIT SIGN (TEXT ON SHADED SIDES, ARROWS AS INDICATED)
	WALL MOUNTED EXIT SIGN (TEXT ON SHADED SIDES, ARROWS AS INDICATED)
	TRACK LIGHT (# OF HEADS AS SHOWN, LENGTH AS INDICATED)
	LINE VOLTAGE SWITCH (120V TO 347V)
	2-GANG LINE VOLTAGE SWITCH
	3-GANG LINE VOLTAGE SWITCH
	4-GANG LINE VOLTAGE SWITCH
	LOW VOLTAGE SWITCH (30V OR LESS)
#	MULTIPLE LOW VOLTAGE SWITCHES (QUANTITY AS INDICATED)
D	LOW VOLTAGE DIMMER SWITCH
D	LINE VOLTAGE DIMMER SWITCH
OS	LOW VOLTAGE SWITCH c/□ OCCUPANCY SENSOR
OS	LINE VOLTAGE SWITCH c/□ OCCUPANCY SENSOR
P	LINE VOLTAGE SWITCH c/□ PILOT LIGHT
2	LINE VOLTAGE TWO POLE SWITCH
3	LINE VOLTAGE THREE WAY SWITCH
4	LINE VOLTAGE FOUR WAY SWITCH
T	TIMER SWITCH
K	KEY OPERATED SWITCH
	3-POSITION LIGHT SWITCH
VS	LINE VOLTAGE SWITCH c/□ VACANCY SENSOR
OS	CEILING MOUNTED LIGHTING OCCUPANCY SENSOR (TYPE AS INDICATED)
VS	WALL MOUNTED LIGHTING VACANCY SENSOR (TYPE AS INDICATED)
PC	PHOTOCELL (EXTERIOR, TYPE AS INDICATED)
PC D	DAYLIGHT SENSOR (INTERIOR PHOTOCELL, TYPE AS INDICATED)
360W	EMERG. LTG. BATTERY PACK (WATTAGE AS SHOWN/# OF LAMPS AS SHOWN)
	CEILING MOUNTED EMERG. LTG. REMOTE HEAD (# OF LAMPS AS SHOWN)
J	UNDER SIDE OF JOIST MOUNTED EMERG. LTG. REMOTE HEAD (# OF LAMPS AS SHOWN)
	WALL MOUNTED EMERG. LTG. REMOTE HEAD (# OF LAMPS AS SHOWN)

LIGHTING ANNOTATION LEGEND

XX — LUMINAIRE TYPE (SCHEDULE REFERENCE)
a — SWITCH LEG
X-13 — PANEL AND CIRCUIT

POWER PLAN SYMBOLS

Symbol	Description
	DUPLEX 5-15R RECEPTACLE
GF	DUPLEX 5-15R RECEPTACLE C/W INTEGRAL GFCI PROTECTION
	DUPLEX 5-20R RECEPTACLE, T-SLOT
	SINGLE 5-15R RECEPTACLE
UPS	TWISTLOCK SINGLE 15A/125V RECEPTACLE
	SPLIT CIRCUIT DUPLEX 5-15R RECEPTACLE
	TWO DUPLEX 5-15R RECEPTACLES
	SPECIAL RECEPTACLE (TYPE AS INDICATED)
	REEL CORD RECEPTACLE (TYPE AS INDICATED)
	FLOOR MOUNTED DUPLEX 5-15R RECEPTACLE
	TWO FLOOR MOUNTED DUPLEX 5-15R RECEPTACLES
	CEILING MOUNTED DUPLEX 5-15R RECEPTACLE
	TWO CEILING MOUNTED DUPLEX 5-15R RECEPTACLES
PP	SERVICE COLUMN / PACK POLE (OUTLETS AS INDICATED)
	UTILITY POLE (TYPE AS INDICATED)
J	CEILING MOUNTED JUNCTION BOX
J	WALL MOUNTED JUNCTION BOX
J	FLOOR MOUNTED JUNCTION BOX
	POWER PANELBOARD
	PANEL (TYPE AS INDICATED - SECURITY, LIGHTING RELAY, ETC.)
	SURFACE RACEWAY (TYPE AS INDICATED)
	PUSHBUTTON (TYPE AND WIRING AS INDICATED)
	GROUND BUS BAR
	ROOM REFERENCE GROUND BUS
	MOTOR
	MOTOR c/□ DISCONNECT SWITCH
	COMBINATION DISCONNECT AND MAGNETIC MOTOR STARTER
	DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	MAGNETIC MOTOR STARTER
T	THERMOSTAT
MP	MANUAL MOTOR STARTER c/□ PILOT LIGHT
	EMERGENCY STOP PUSHBUTTON (RED MUSHROOM STYLE BUTTON)
	START/STOP PUSHBUTTONS - (DC - SAWDUST COLLECTOR CONTROL) UP/DOWN/START PUSHBUTTONS - (OH - OVERHEAD DOOR CONTROL)
SC	CEILING FAN VARIABLE SPEED CONTROL SWITCH
	CONDUIT STUB
	CONDUIT UP
	CONDUIT DOWN
•	DEVICE MOUNTED ABOVE MILLWORK COUNTERTOP

TELECOMMUNICATIONS SYMBOLS

Symbol	Description
2D/1V	WALL MOUNTED TELECOM OUTLET (2 CAT. 6 DATA JACKS, 1 CAT. 6 VOICE JACK).
2D/1V	FLOOR MOUNTED TELECOM OUTLET (2 CAT. 6 DATA JACKS, 1 CAT. 6 VOICE JACK).
#	CEILING MOUNTED TELECOM OUTLET (# DENOTES NUMBER OF CABLES)
2D/1V	FURNITURE MOUNTED TELECOM OUTLET (2 CAT. 6 DATA JACKS, 1 CAT. 6 VOICE JACK) (3-PORT PLATE BY OTHERS)
	INTERCOM STATION
1V	WALL MOUNTED VOICE OUTLET (1 CAT. 6 VOICE JACK).
WAP	WIRELESS ACCESS POINT
CATV	WALL MOUNTED TELEVISION OUTLET
CATV	CEILING MOUNTED TELEVISION OUTLET
CATV	FLOOR MOUNTED TELEVISION OUTLET
F	FIBRE OPTIC OUTLET
	CABLE TRAY, AS INDICATED

PUBLIC ADDRESS & AUDIO-VISUAL SYMBOLS

Symbol	Description
S	CEILING MOUNTED SPEAKER
S	WALL MOUNTED SPEAKER
S	CEILING MOUNTED HORN SPEAKER
S	WALL MOUNTED HORN SPEAKER
AV	FLOOR MOUNTED AUDIO / VIDEO JACK (TYPE AS INDICATED)
AV	WALL MOUNTED AUDIO / VIDEO JACK (TYPE AS INDICATED)

GENERAL SYMBOLS

Symbol	Description
#	NOTE REFERENCE
## ###	EQUIPMENT REFERENCE
#	REVISION NUMBER
##	WIRING HOME RUN

FIRE ALARM SYMBOLS

Symbol	Description
F	FIRE ALARM MANUAL STATION
F	CEILING MOUNTED FIRE ALARM HORN SPEAKER
F	WALL MOUNTED FIRE ALARM HORN SPEAKER
F	CEILING MOUNTED FIRE ALARM HORN SPEAKER c/□ STROBE
F	WALL MOUNTED FIRE ALARM HORN SPEAKER c/□ STROBE
	CEILING REMOTE EVACUATION STROBE
	WALL MOUNTED REMOTE EVACUATION STROBE
F	CEILING MOUNTED FIRE ALARM SPEAKER
F	WALL MOUNTED FIRE ALARM SPEAKER
F	CEILING MOUNTED FIRE ALARM SPEAKER c/□ STROBE
F	WALL MOUNTED FIRE ALARM SPEAKER c/□ STROBE
F PZ	FIRE ALARM PIEZO SOUNDER
F PZ	FIRE ALARM PIEZO SOUNDER c/□ STROBE
F	FIRE ALARM ELECTRONIC HORN/SOUNDER
F	FIRE ALARM ELECTRONIC HORN/SOUNDER c/□ STROBE
CO	CARBON MONOXIDE ALARM
H	FIRE ALARM HEAT DETECTOR (RATE OF RISE UNLESS OTHERWISE INDICATED)
S	FIRE ALARM SMOKE DETECTOR
DS	FIRE ALARM SMOKE DETECTOR, DUCT MOUNTED
SA	SMOKE ALARM
FAA	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
CACF	CENTRAL ALARM & CONTROL FACILITY
	EMERGENCY TELEPHONE
H	FIRE ALARM MAGNETIC DOOR HOLD OPEN DEVICE
PS	FIRE ALARM CONNECTION TO PRESSURE SWITCH
FS	FIRE ALARM CONNECTION TO FLOW SWITCH
TS	FIRE ALARM CONNECTION TO TAMPER SWITCH
LS	FIRE ALARM CONNECTION TO LEVEL SWITCH
	END OF LINE RESISTOR
CM	FIRE ALARM CONTROL MODULE
MM	FIRE ALARM MONITOR MODULE
ISO	FIRE ALARM FAULT ISOLATION MODULE
R FA	FIRE ALARM RELAY

SECURITY SYMBOLS

Symbol	Description
CR	CARD READER
CR K	CARD READER / KEY PAD COMBINATION
K	SECURITY KEY PAD
KO	KEYSWITCH OVERRIDE
E	REQUEST-TO-EXIT PUSHBUTTON
P	PANIC/DURESS PUSHBUTTON
BK	BUZZER AND KEYSWITCH FOR LOCAL ALARM
ML	ELECTROMAGNETIC LOCK
EH	ELECTRIFIED DOOR HARDWARE
DP	DOOR POSITION SWITCH
RE	REQUEST-TO-EXIT MOTION SENSOR
IC	INTERCOM STATION - WALL MTD. □ 1500mm A.F.F.
IC WP	WEATHERPROOF INTERCOM STATION - WALL MTD. □ 1500mm A.F.G.
	PUSHBUTTON
K	PUSHBUTTON C/W KEYED RESET
M	CEILING MOUNTED SECURITY MOTION DETECTOR
M 360°	CEILING MOUNTED SECURITY MOTION DETECTOR (360 DEGREES)
M	WALL MOUNTED SECURITY MOTION DETECTOR
G	GLASS BREAK DETECTOR
PPAS	PERSONAL PROTECTION ALARM SYSTEM RECEIVER - WALL MOUNTED ABOVE T-BAR CEILING OR AT HEIGHT INDICATED
PALS	PERSONAL PROTECTION ALARM LOCATOR SYSTEM RECEIVER - WALL MOUNTED AT HEIGHT INDICATED
PSRU	PERSONAL PROTECTION ALARM LOCATOR SYSTEM PSRU
PA#1	PUBLIC ADDRESS SYSTEM AMPLIFIER

SCHEMATIC SYMBOLS

Symbol	Description
	DRAW OUT LOW VOLTAGE CIRCUIT BREAKER
	LOW VOLTAGE CIRCUIT BREAKER
	HIGH VOLTAGE CIRCUIT BREAKER
	DRAW OUT HIGH VOLTAGE CIRCUIT BREAKER
	LOAD BREAK SWITCH
	DISCONNECT SWITCH
	FUSE
	TRANSFORMER
	AUTOTRANSFORMER
#	CURRENT TRANSFORMERS (# INDICATES NUMBER OF CTs IN GROUP)
	ZERO SEQUENCE CURRENT TRANSFORMER
#	POTENTIAL TRANSFORMERS (# INDICATES NUMBER OF PTs IN GROUP)
	TRANSFER SWITCH
G L N	AUTOMATIC TRANSFER SWITCH C/W SINGLE ISOLATION/BYPASS
G L N	AUTOMATIC TRANSFER SWITCH C/W DUAL ISOLATION/BYPASS
	NORMALLY OPEN CONTACT
	NORMALLY CLOSED CONTACT
G	GENERATOR
M	REVENUE METER
DM	DIGITAL INFORMATION METER
Δ	DELTA CONNECTION
Y	WYE CONNECTION
	GROUND CONNECTION
	HIGH VOLTAGE STRESS RELIEF CONE
	POTHEAD
	CAPACITOR
	SURGE PROTECTIVE DEVICE
	LIGHTNING ARRESTOR
PANEL N2A 42CCT / PNL N2A	PANELBOARD
	PUSH PULL SWITCH
	GROUND BUS
O	OHMMETER
K	KEY SWITCH/KEY INTERLOCK
V	VOLTMETER
	CONNECTION
	RESISTOR
	SPACE HEATER
	TERMINAL BLOCK IN MOTOR STARTER OR PANEL
	TERMINAL BLOCK IN PLC
	LIGHT
	PROBE SENSOR - WET WELL APPLICATION
	SWITCH, NORMALLY CLOSED
	SWITCH, NORMALLY OPEN
	FLOW SWITCH, NORMALLY CLOSED
	FLOW SWITCH, NORMALLY OPEN
	LIQUID LEVEL SWITCH, NORMALLY CLOSED
	LIQUID LEVEL SWITCH, NORMALLY OPEN
	PRESSURE OR VACUUM SWITCH, NORMALLY CLOSED
	PRESSURE OR VACUUM SWITCH, NORMALLY OPEN
	PUSH BUTTON MOMENTARY CONTACT, NORMALLY CLOSED
	PUSH BUTTON MOMENTARY CONTACT, NORMALLY OPEN
	NORMALLY-CLOSED, TIMED-CLOSED CONTACT (TIME DELAY ON DE-ENERGIZATION)
	NORMALLY-CLOSED, TIMED-OPEN CONTACT (TIME DELAY ON ENERGIZATION)
	NORMALLY-OPEN, TIMED-OPEN CONTACT (TIME DELAY ON DE-ENERGIZATION)
	NORMALLY-OPEN, TIMED-CLOSED CONTACT (TIME DELAY ON ENERGIZATION)
	TEMPERATURE SWITCH, NORMALLY CLOSED
	TEMPERATURE SWITCH, NORMALLY OPEN
	LIMIT SWITCH, NORMALLY CLOSED
	LIMIT SWITCH, NORMALLY OPEN
	SELECTOR SWITCH
H O A	HAND-OFF-AUTO SWITCH
	BLOWN FUSE INDICATOR
R	PILOT LIGHT - PUSH TO TEST
	INDUCTOR/REACTOR/CHOKE COIL
	MAGNETIC MOTOR STARTER
	MANUAL MOTOR STARTER
	MOTOR OVERLOAD
D/I	DOOR INTERLOCK SWITCH
	BREAK LINE
	CONTINUATION BREAK

ABBREVIATIONS

EX	EXISTING DEVICE TO REMAIN
RE	REMOVE EXISTING DEVICE
RP	REPLACE EXISTING DEVICE WITH NEW DEVICE
RL	RELOCATE EXISTING DEVICE
ER	EXISTING DEVICE IN RELOCATED POSITION
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BMS	BUILDING MANAGEMENT SYSTEM
CB	CODE BLUE
CC	CRASH CART
CM	COFFEE MACHINE
CW	CODE WHITE
DIC	DICTATION
DGS	DIAGNOSTIC SET
DW	DISHWASHER
EL	EXAMINATION LIGHT
FAX	FAX MACHINE
GF	GROUND FAULT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HK	HOUSEKEEPING
HFF	HANDS FREE FIXTURE
ICE	ICE MACHINE
OC	ON CENTER
J	JOIST
JB	JUNCTION BOX
MCC	MOTOR CONTROL CENTER
MGAP	MEDICAL GAS ALARM PANEL
MW	MICROWAVE
N/C	NURSE CALL
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
IG	ISOLATED GROUND
PACS	PICTURE ARCHIVING COMMUNICATION SYSTEM
PL	PATIENT LIFT
PM	PATIENT MONITOR
PTR	PRINTER
PYX	PYXIS MEDSTATION
RB	RELAY BASE
REF	REFRIGERATOR
SB	SOUNDER BASE
SPD	SURGE PROTECTIVE DEVICE
TR	TAMPER RESISTANT
TV	TELEVISION
TYP	TYPICAL
U/S	UNDER SIDE
WP	WEATHERPROOF

DRAWING LIST

NO.	TITLE
E001	SYMBOL SCHEDULE, DRAWING LIST
E100	ELECTRICAL SITE PLAN
E101	ELECTRICAL SITE PLAN CONTINUATION, DETAILS
E201	MAIN FLOOR LIGHTING PLAN
E202	UPPER FLOOR LIGHTING PLAN
E301	MAIN FLOOR POWER PLAN
E302	UPPER FLOOR POWER PLAN
E303	ROOF LIGHTING, POWER AND SYSTEMS PLAN
E401	MAIN FLOOR SYSTEMS PLAN
E402	UPPER FLOOR SYSTEMS PLAN
E501	SINGLE LINE DIAGRAM AND LOAD CALCULATION
E502	ELECTRICAL, LAN AND MECH. ROOMS ENLARGED PLANS AND ELEVATIONS
E503	RISER DIAGRAMS AND SCHEMATICS
E504	PANEL SCHEDULES
E505	MECHANICAL EQUIPMENT AND LUMINAIRE SCHEDULES
E506	SHOP EQUIPMENT SCHEDULE
E507	ELECTRICAL DETAILS
E508	BUILDING PARTIAL PLAN LAYOUTS AND DETAILS

Public Works and Government Services Canada — Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

Stantec
Stantec Consulting Ltd.
www.stantec.com

MAY 0 2 2018

Revision/ Revision	Description/Description	Date/Date
1	ISSUE FOR TENDER	18-05-02

Client/client
CORRECTIONAL SERVICE CANADA

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MB / DS

Drawn by/Dessine par
DS / HB

PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAIR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC
PREETIPAL PAUL

Drawing title/Titre du dessin
SYMBOL SCHEDULE, DRAWING LIST

Project No./No. du projet: R.069377.001
Sheet/ Feuille: E001
Revision no./ La Révision no.: 1

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Friday, May 18, 2018 3:08:00 PM By: de los Santos, Ferdinand

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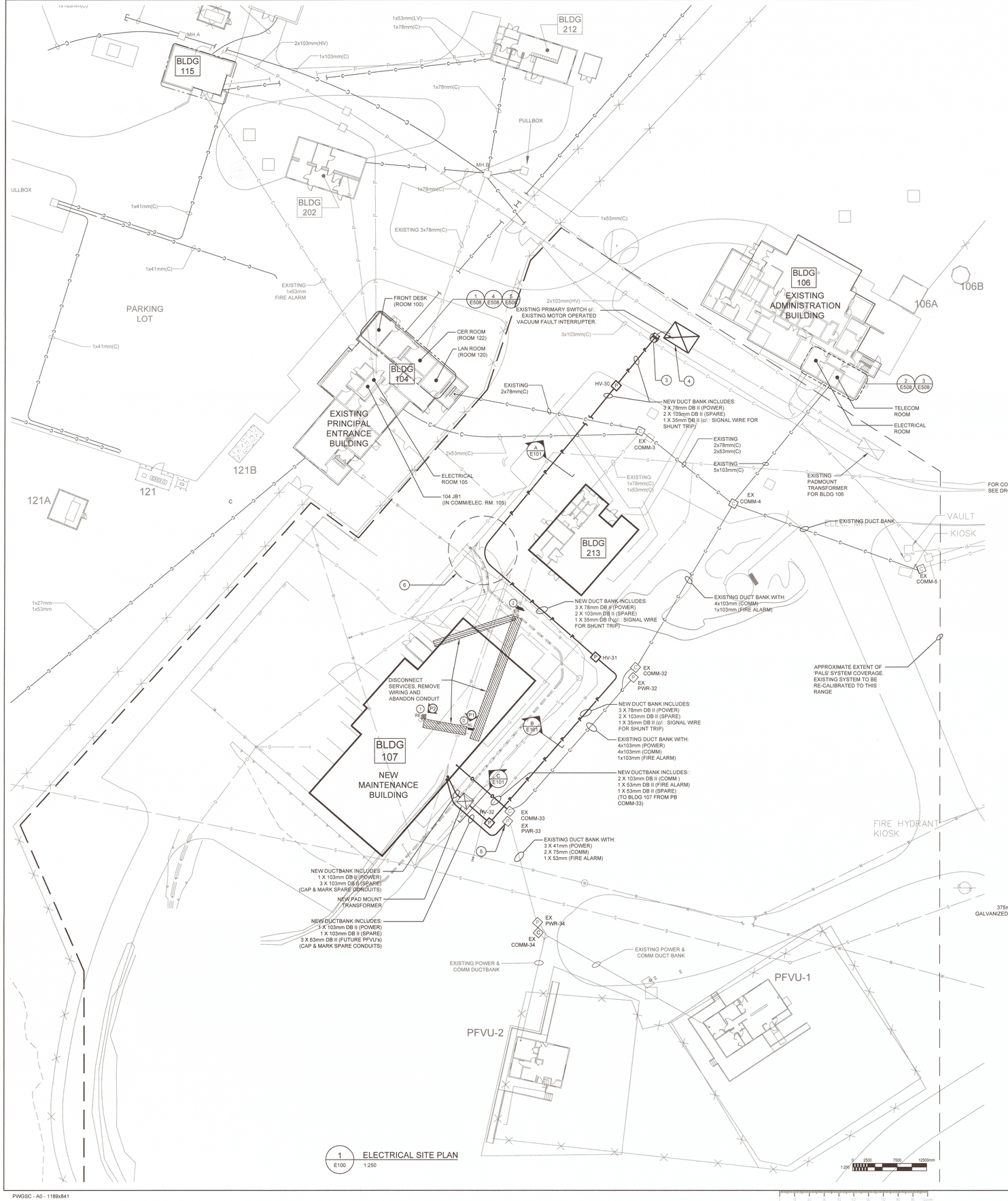

1 E100 ELECTRICAL SITE PLAN
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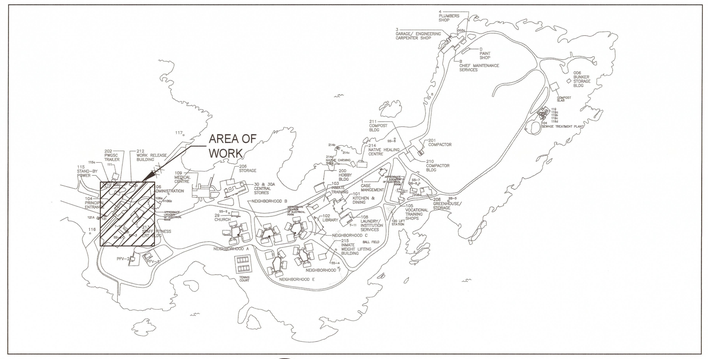
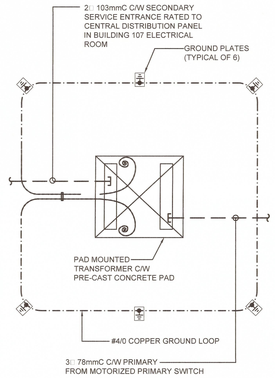


2 E100 KEY PLAN
N.T.S.

P1 E100 EXISTING ELECTRICAL PANEL ENCLOSURE
NTS

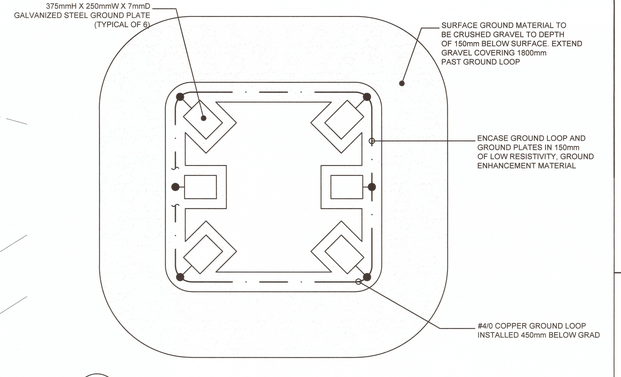
P2 E100 EXISTING RECEPTACLE POST
NTS



PADMOUNT TRANSFORMER NOTES:

1. PROVIDE 150mm THICK LAYER OF LOW RESISTIVITY, GROUND ENHANCEMENT MATERIAL 450mm BELOW GRADE.
2. PROVIDE CRUSHED GRAVEL FROM TOP OF LOW RESISTIVITY LAYER TO SURFACE.
3. INSTALL GROUND PLATES AND COUNTERPOISE AT 450mm BELOW GRADE.

3 E100 OUTDOOR PADMOUNT TRANSFORMER DETAIL
NTS



4 E100 OUTDOOR PADMOUNT TRANSFORMER GROUNDING DETAIL
NTS

GENERAL NOTES:

1. WHERE UNDERGROUND CONDUITS ARE INSTALLED WITHOUT CONCRETE DUCT BANKS ONLY RPVC CONDUIT WILL BE USED.
2. PRIOR TO ANY EXCAVATION, RETAIN A LOCATING SERVICE TO IDENTIFY AND MARK EXISTING U/G UTILITIES IN THE AREA OF WORK AND DETAIL ON THE RECORD DRAWINGS. COORDINATE AND ADJUST NEW CONDUITS, DUCTBANK ROUTING WHERE NECESSARY TO AVOID CONFLICTS.
3. LOCATION AND PLACEMENT OF NEW PULL BOXES IN EXISTING GRADED/FINISHED AREAS TO BE COORDINATED WITH THE DEPARTMENTAL REPRESENTATIVE AND THE INSTITUTION PRIOR TO EXCAVATION AND ROUGH-IN.
4. NEW PULL BOXES TO BE PROVIDED WITH WELDED METAL NAMEPLATE/TAG. COORDINATE PULL BOX IDENTIFICATION TAG WITH THE DEPARTMENTAL REPRESENTATIVE/INSTITUTION PRIOR TO FABRICATION AND MOUNTING. REFER TO PULL BOX DETAIL ON A/E507.

DRAWING NOTES:

1. EXISTING TWO (2) DUPLEX RECEPTACLES ON POST TO BE REMOVED. REMOVE WIRING BACK TO SOURCE AND MAKE SAFE. REMOVE POST AND CONDUIT.
2. EXISTING ELECTRICAL PANEL ENCLOSURE TO BE RELOCATED DURING CONSTRUCTION AND USED FOR POWER DURING CONSTRUCTION. AFTER CONSTRUCTION IS COMPLETE, U/G CONDUIT WIRING AND KIOSK IS TO BE DEMOLISHED AS DIRECTED AND LABEL SOURCE BREAKER AS SPARE.
3. EXISTING DUCT BANK HAND DIG IN THE AREA AND INTERCEPT AND EXTEND EXISTING 3x78mmC POWER CONDUITS.
4. HAND DIG IN EXPOSED AREA OF THE SWITCHING KIOSK COMMUNICATION SECTION. PROVIDE A 35mm RPVC AND WIRING FROM THIS COMPARTMENT TO THE NEW POWER DUCTBANK AND EXTEND TO BLDG. 107 PMT.
5. DRILL INTO EXISTING PULL PIT. GROUT / SEAL AROUND NEW CONDUITS.
6. COORDINATE WITH CIVIL FOR EXISTING UTILITIES IN THIS AREA. USE HYDRO VAC EXCAVATION WHERE REQUIRED SO AS NOT TO DAMAGE SERVICES.

SYMBOL LEGEND

P—P	NEW U/G POWER DUCTBANK UNLESS OTHERWISE NOTED
C—C	NEW U/G COMM. DUCTBANK UNLESS OTHERWISE NOTED
P PWR-3x	NEW POWER PULL BOX
C COMM-3x	NEW COMM. PULL BOX
H—H	EXISTING POWER CONDUIT TO BE DEMOLISHED

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1	ISSUE FOR TENDER	18-05-02
Revision/ Revision	Description/Description	Date/Date

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par: MB / DS

Drawn by/Dessine par: DS / HB

PWGSC Project Manager/Administrateur de Projets TPSGC: DARYL SINCLAIR

PWGSC Regional Manager, Architectural and Engineering Services/ Gestionnaire régional, Services d'architecture et de génie, TPSGC: PREETIPAL PAUL

Drawing title/Titre du dessin

ELECTRICAL SITE PLAN

Project No./No. du projet	Sheet/ Feuille	Revision no./ Révision no.
R.069377.001	E100	1

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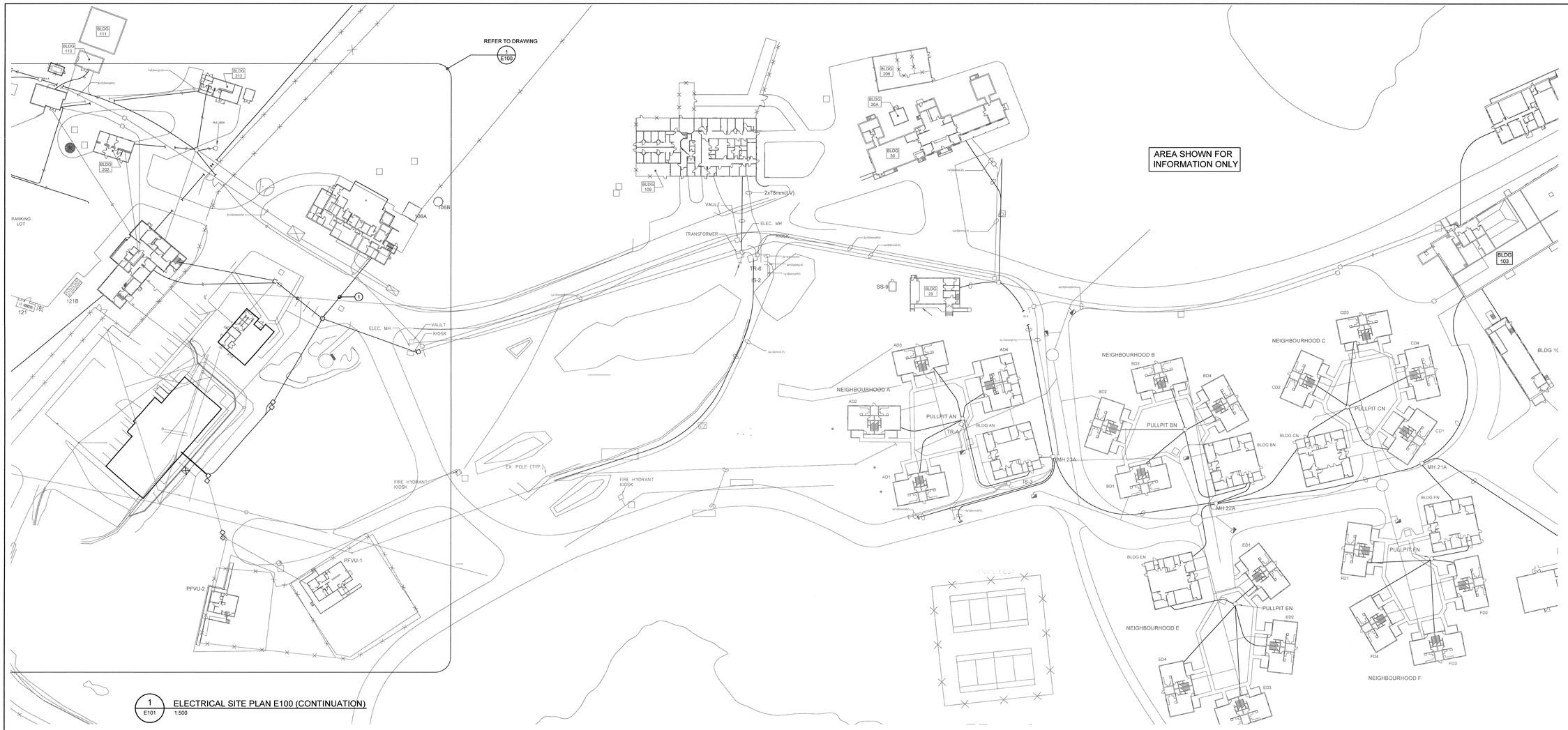
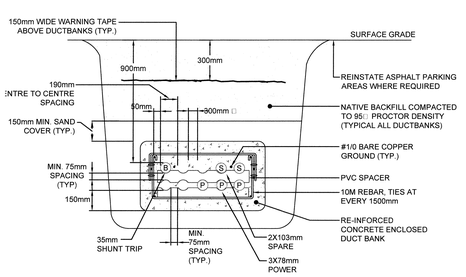
Friday, May 18, 2018 3:04:04 PM By: de los Santos, Ferdinand

PWGSC - A0 - 1189x841

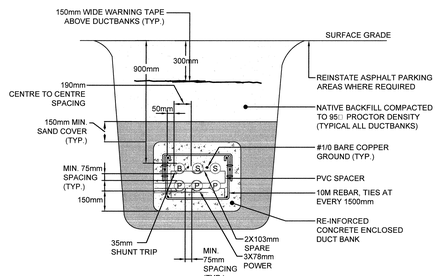


1 E101 ELECTRICAL SITE PLAN E100 (CONTINUATION)
1:500



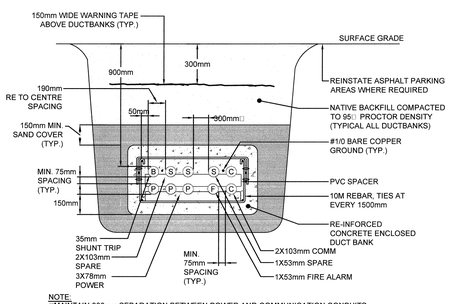
NOTE:
MAINTAIN 300mm SEPARATION BETWEEN POWER AND COMMUNICATION CONDUITS.

A E101 TRENCH SECTION - POWER & COMM.
NTS



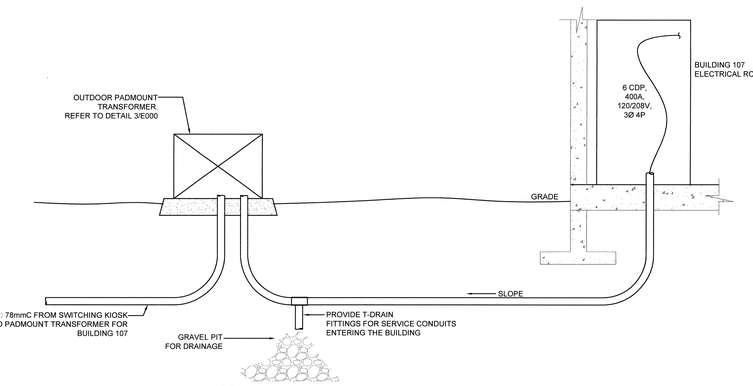
NOTE:
MAINTAIN 300mm SEPARATION BETWEEN POWER AND COMMUNICATION CONDUITS.

B E101 TRENCH SECTION - POWER, COMM. & FIRE ALARM
NTS



NOTE:
MAINTAIN 300mm SEPARATION BETWEEN POWER AND COMMUNICATION CONDUITS.

C E101 TRENCH SECTION - POWER, COMM. & FIRE ALARM
NTS



D E101 OUTDOOR UNIT SUBSTATION AND BUILDING 107 FEEDER PROFILE
NTS

DRAWING NOTES:

1 PROVIDE 6-STRAND, M.M., OSP FIBER FOR FIRE ALARM FROM BUILDING 106 TO NEW BUILDING 107.

SYMBOL LEGEND

- NEW U/G COMM. DUCTBANK
- EXISTING U/G COMM. DUCTBANK, AS NOTED
- C — NEW COMM. PULL BOX
- C EX — EXISTING COMM. PULL BOX

0 5 15 25m
1:500

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

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Drawn by/Dessiné par
DS / HB

PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAIR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régional, Services d'architecture et de génie, TPSGC
PREETIPAL PAUL

Drawing title/Titre du dessin

ELECTRICAL SITE PLAN - DDC & FIRE ALARM

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	E101	1

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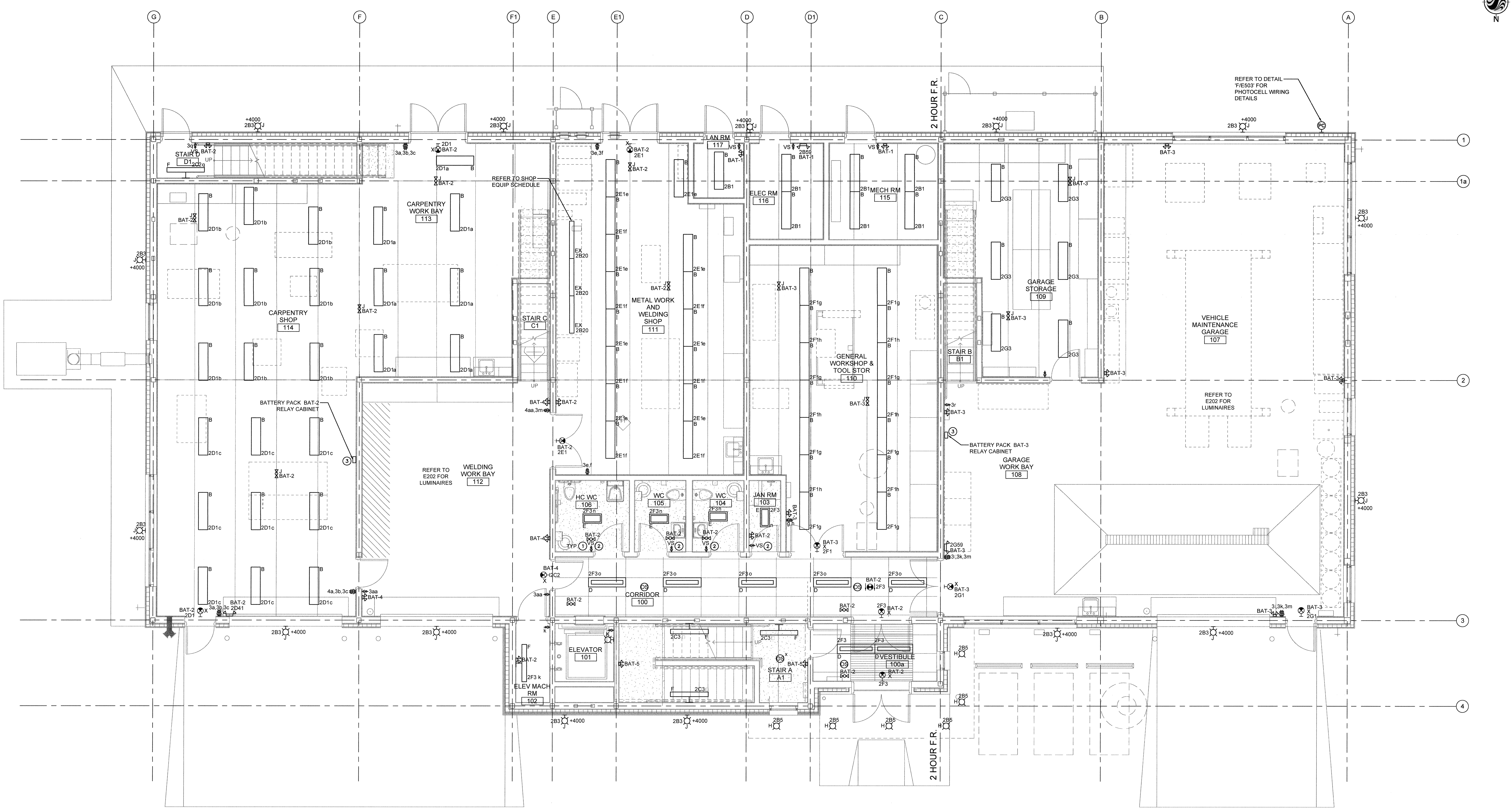
Friday, May 18, 2018 3:09:16 PM By: de los Santos, Fernando

PWGSC - A0 - 1189x841



1
E201

MAIN FLOOR LIGHTING PLAN

1:50

DRAWING NOTES:

1. PROVIDE A WALL MOUNTED OCCUPANCY SENSOR. TO BE SENSOR SWITCH, WSD SERIES, DUAL TECHNOLOGY OR ACCEPTED PRODUCT. SWITCH TO OPERATE BY 'MANUAL ON' WITH ENTRY AND 'AUTOMATIC OFF' TIMER WITH EXIT. TYPICAL FOR ALL WALL MOUNTED 'VS' SWITCHES.
2. OCCUPANCY SENSOR IN ROOMS 103, 104, 105 AND 106 WILL SWITCH LIGHT AND FAN ON AT THE SAME TIME. PROVIDE A RELAY FOR CONTROL OF FAN AND OCCUPANCY SENSOR, IF REQUIRED.
3. REFER TO DRAWING E503 FOR BATTERY PACK RELAY SCHEMATIC. REFER TO DRAWING E505 FOR BATTERY UNIT SCHEDULE.

1:50 0 500 1500 2500mm

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Drawing title/Titre du dessin

MAIN FLOOR LIGHTING PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./Révision no.
R.069377.001	E201	1

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Friday, May 18, 2018 3:09:46 PM By: de los Santos, Ferdinand

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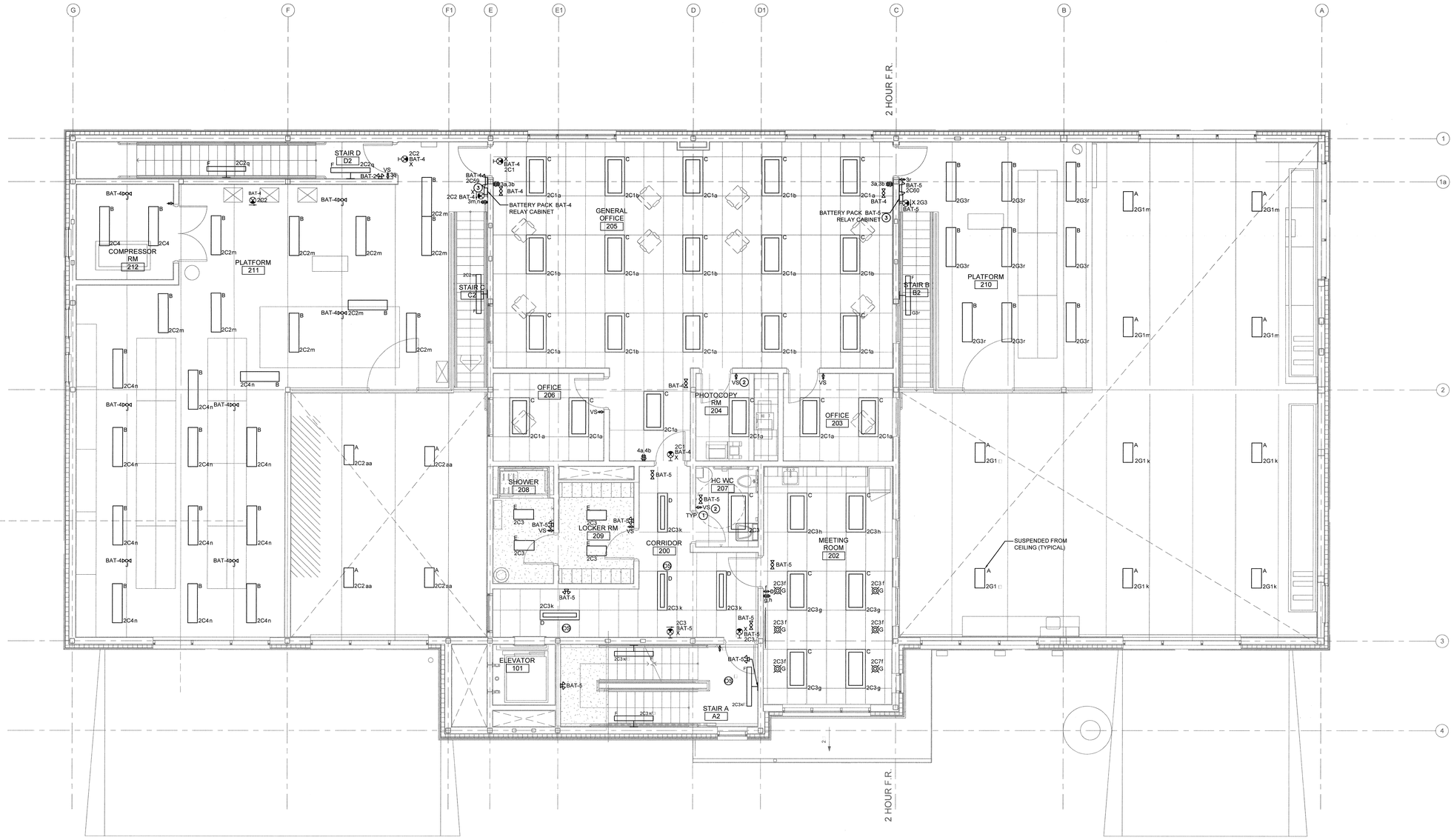

1 E202 UPPER FLOOR LIGHTING PLAN
1:50

DRAWING NOTES:

1. PROVIDE A WALL MOUNTED OCCUPANCY SENSOR TO BE SENSOR SWITCH, W60 SERIES, DUAL TECHNOLOGY OR ACCEPTED PRODUCT. SWITCH TO OPERATE BY 'MANUAL ON' WITH ENTRY AND 'AUTOMATIC OFF' TIMER WITH EXIT. TYPICAL FOR ALL WALL MOUNTED 'VS' SWITCHES.
2. OCCUPANCY SENSOR IN ROOMS 204 AND 207 WILL SWITCH LIGHT AND FAN ON AT THE SAME TIME. PROVIDE A RELAY FOR CONTROL OF FAN AND OCCUPANCY SENSOR, IF REQUIRED.
3. REFER TO DRAWING E503 FOR BATTERY PACK RELAY SCHEMATIC. REFER TO DRAWING E505 FOR BATTERY UNIT SCHEDULE.

0 500 1500 2500mm
1:50

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

PWGSC - A0 - 1189x841

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Friday, May 18, 2018 3:10:14 PM By: de los Santos, Ferdinand

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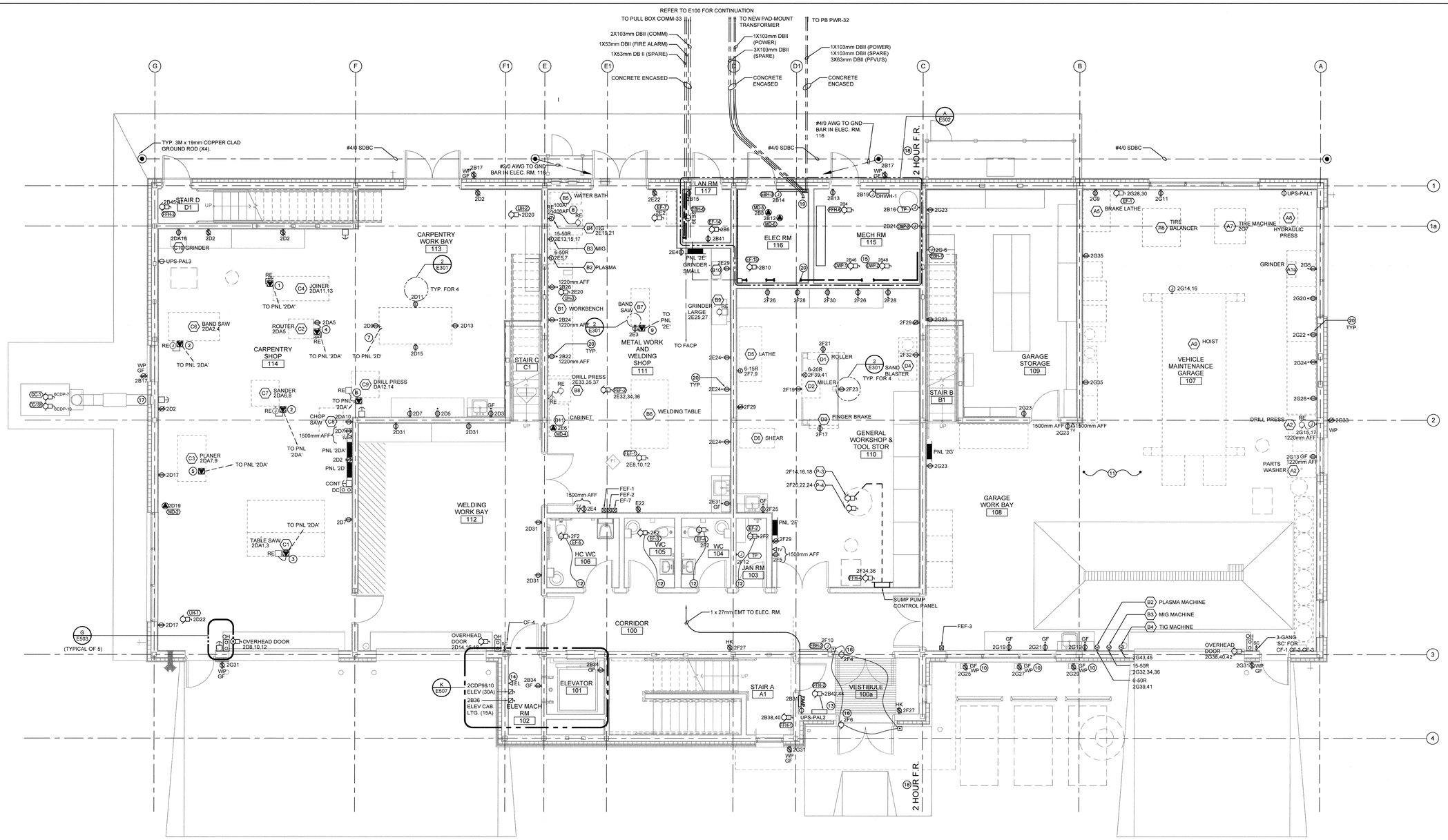
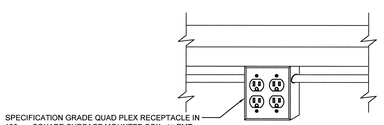
Drawing title/Titre du dessin

UPPER FLOOR LIGHTING PLAN

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	E202	1



1 / E301 MAIN FLOOR POWER PLAN
1:50



2 / E301 WORKBENCH RECEPTACLE MOUNTING DETAIL
N.T.S

GENERAL NOTES:

1. REFER TO THE EQUIPMENT SCHEDULE FOR ALL EQUIPMENT CONDUIT AND WIRE SIZING.
2. REVIEW ALL EQUIPMENT POWER CONNECTION LOCATIONS ON SITE BEFORE FINALIZING THE IN-SLAB RPVC STUB-UP LOCATIONS.
3. ALL COVER PLATES TO BE STAINLESS STEEL FOR OFFICE AREA AND WALL INSTALLATIONS. COVERS FOR BENCH OUTLETS.

DRAWING NOTES:

1. PROVIDE RPVC CONDUIT IN-SLAB FROM PANEL '2DA' AND STUB-UP BY THE EQUIPMENT. TRANSITION FROM RPVC TO EMT CONDUIT TO MAKE FINAL CONNECTION TO THE EXISTING EQUIPMENT SWITCH.
2. PROVIDE RPVC CONDUIT IN-SLAB FROM PANEL '2DA' AND STUB-UP BY THE EQUIPMENT. TRANSITION FROM RPVC TO EMT CONDUIT TO MAKE FINAL CONNECTION TO THE EXISTING EQUIPMENT JUNCTION BOX.
3. PROVIDE RPVC CONDUIT IN-SLAB FROM PANEL '2DA' AND STUB-UP 6" BESIDE THE EQUIPMENT START/STOP CONTROLLER. TRANSITION FROM RPVC TO FLEX CONDUIT TO MAKE FINAL CONNECTION TO THE EXISTING EQUIPMENT CONTROLLER.
4. PROVIDE RPVC CONDUIT IN-SLAB FROM PANEL '2DA' AND STUB-UP BY THE EQUIPMENT. TRANSITION FROM RPVC TO EMT CONDUIT TO MAKE FINAL CONNECTION TO THE EXISTING EQUIPMENT SWITCH. PROVIDE FLEXIBLE CONDUIT FROM SWITCH TO RECEPTACLE ON TABLE.
5. PROVIDE RPVC CONDUIT IN-SLAB FROM PANEL '2DA' AND STUB-UP INSIDE THE EQUIPMENT. CENTER CONDUIT INSIDE THE EQUIPMENT ENCLOSURE. TRANSITION FROM RPVC TO FLEXIBLE CONDUIT TO MAKE FINAL CONNECTION TO THE EXISTING EQUIPMENT.
6. PROVIDE RPVC CONDUIT IN-SLAB FROM PANEL '2DA' AND STUB-UP BY THE EQUIPMENT. TRANSITION FROM RPVC TO EMT CONDUIT TO MAKE FINAL CONNECTION TO THE EXISTING EQUIPMENT STARTER.
7. PROVIDE RPVC CONDUIT IN-SLAB FROM PANEL '2D' AND STUB-UP BY THE EQUIPMENT. TRANSITION FROM RPVC TO EMT CONDUIT TO MAKE FINAL CONNECTION TO THE RECEPTACLE.
8. REUSE EXISTING 100A/100AF DISCONNECT SWITCH.
9. PROVIDE RPVC CONDUIT IN-SLAB FROM PANEL '2E' AND STUB-UP BY THE EQUIPMENT. TRANSITION FROM RPVC TO EMT CONDUIT TO MAKE FINAL CONNECTION TO THE DUPLEX RECEPTACLE.
10. PROVIDE A WEATHER PROOF, LOCKABLE COVER FOR THE GOLF CART RECEPTACLES.
11. ALL ELECTRICAL EQUIPMENT IN THE GARAGE SHALL BE 450mm AFF (MIN).
12. EXHAUST FAN INTERLOCK: REFER TO LIGHTING PLAN, E-201 FOR INTERLOCK DETAILS BETWEEN VACANCY SWITCH AND EXHAUST FANS.
13. PALS RECEIVER #2 AND UPS RECEPTACLE TO BE MOUNTED ABOVE T-BAR CEILING.
14. COORDINATE EXACT LOCATION OF TELEPHONE OUTLET WITH ELEVATOR CONTRACTOR PRIOR TO ROUGH-IN.
15. COORDINATE EXACT LOCATION OF RECIRC PUMPS DWP-1 AND DWP-2 WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
16. PROVIDE A RELAY IN THE FIRE ALARM PANEL AND AUXILLARY CONTACTS IN POWER DOOR OPERATORS. DOORS TO RELEASE IN FIRE CONDITION.
17. DUST COLLECTION SYSTEM c/w AIR PROVING SWITCH. PROVIDED BY MECHANICAL. COORDINATE ROUGH-IN AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN INSTALLATION AND WIRING REQUIREMENTS PER MANUFACTURERS RECOMMENDATIONS. REFER TO DETAIL 'G' ON DRAWING E503 FOR FURTHER INFORMATION.
18. 2 HOUR FIRE RATING ALONG GRIDLINE 'C'. MAINTAIN RATING OF WALL FOR ROUGH-IN ELECTRICAL ALONG THIS GRIDLINE 'C'. SURFACE MOUNT AS REQUIRED.
19. REFER TO DETAIL '1/502' FOR CONDUIT STUB UP LOCATIONS.
20. CONFIRM WITH D.R./INSTITUTION FOR FINAL PLACEMENT OF BENCH RECEPTACLES. REFER TO DETAIL, THIS DRAWING.

0 500 1500 2500mm
1:50

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

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Monday, May 21, 2018 9:10:04 AM By: Dowing, Chelsea

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DS / HB

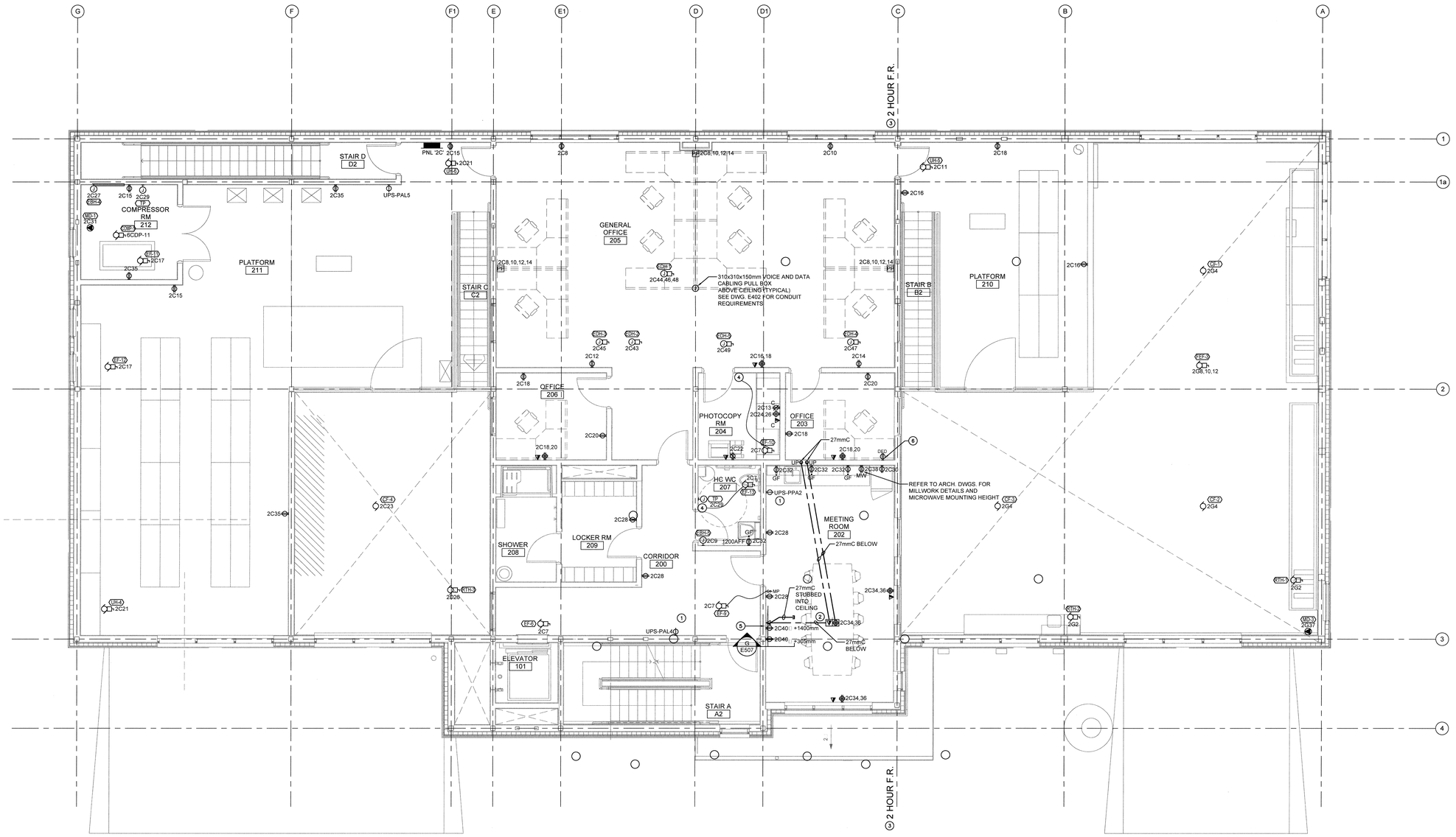
PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAIR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC
PREETIPAL PAUL

Drawing title/Titre du dessin

MAIN FLOOR POWER PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./ Le Révision no.
R.069377.001	E301	1



1 UPPER FLOOR POWER PLAN
E302 1:50

DRAWING NOTES:

1. PALS RECEIVER #4 AND PPA RECEIVER #2 WITH ASSOCIATED UPS RECEPTACLES TO BE MOUNTED ABOVE T-BAR CEILING.
2. REFER TO DETAIL 'G/507' FOR FLOOR BOX / DATA CONDUIT DETAIL.
3. 2 HOUR FIRE RATING ALONG GRIDLINE 'C'. MAINTAIN 2 HOUR RATING OF WALL. SURFACE MOUNT ELECTRICAL ALONG THIS WALL.
4. EXHAUST FAN INTERLOCK. REFER TO LIGHTING PLAN, E-201 FOR INTERLOCK DETAILS BETWEEN VACANCY SWITCH AND EXHAUST FANS.
5. MONITOR 1400mm AFF RECESSED RECEPTACLE AND DATA OUTLET BOX.
6. PROVIDE DEDICATED CIRCUIT/ RECEPTACLE FROM PANEL '2C' FOR FIRE ALARM WORKSTATION. PROVIDE SHELF FOR THE UPS TO RAISE OFF OF FLOOR. COORDINATE WITH ARCHITECTURAL AND GENERAL CONTRACTOR. EXISTING FIRE ALARM SYSTEM WORKSTATION AND UPS ARE TO BE RELOCATED FROM BUILDING B. COORDINATE WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO RELOCATION OF EQUIPMENT.

1:50 0 500 1500 2500mm

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PWGSC Regional Manager, Architectural and Engineering Services/ Gestionnaire régional, Services d'architecture et de génie, TPSGC: PREETIPAL PAUL

Drawing title/Titre du dessin

UPPER FLOOR POWER PLAN

Project No./No. du projet	Sheet/ Feuille	Revision no./ No. de Révision no.
R.069377.001	E302	1

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Friday, May 18, 2018 3:11:14 PM By: de los Santos, Fernando

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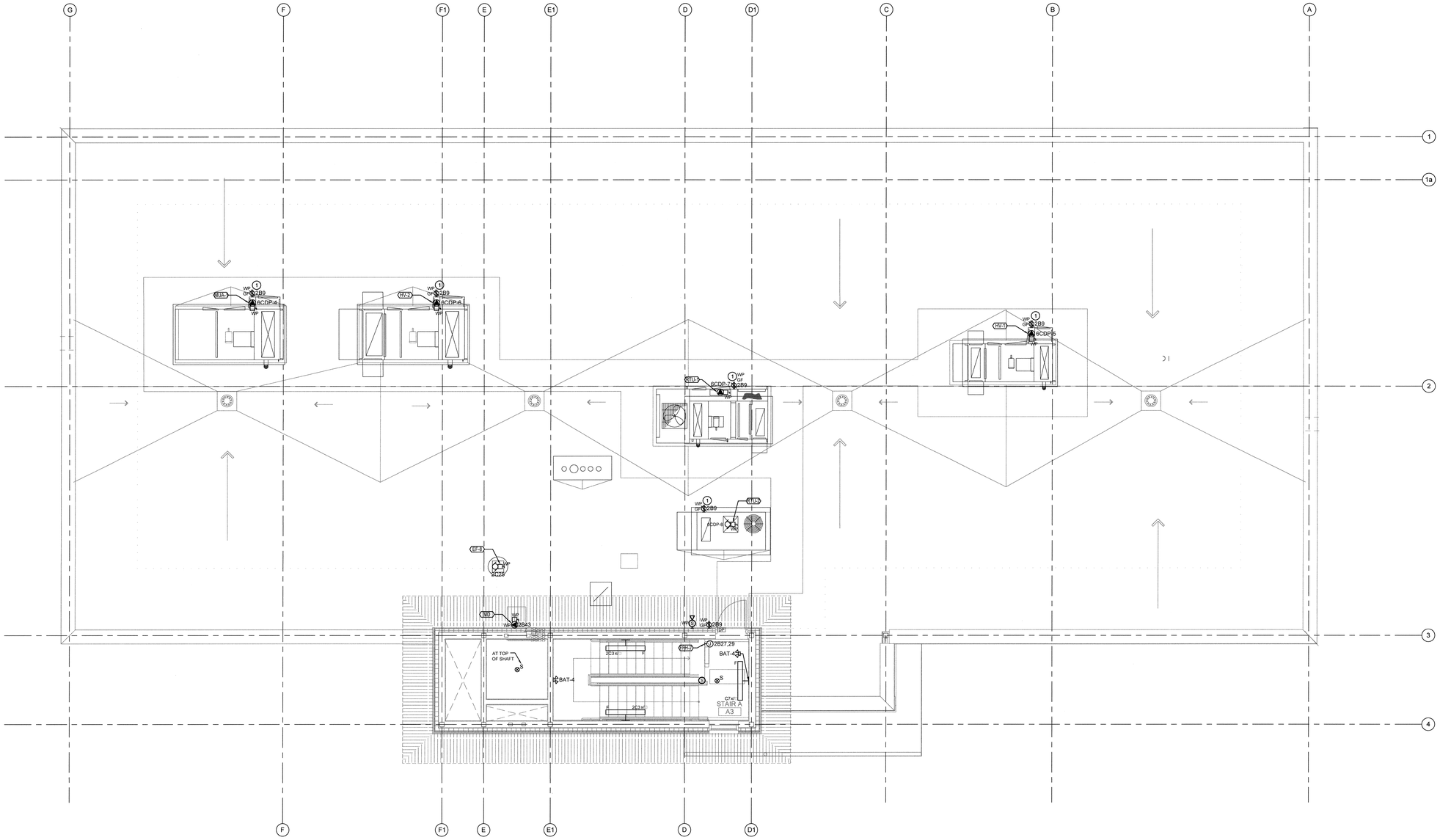

1 / E303 ROOF LIGHTING, POWER AND SYSTEMS PLAN

1:50

GENERAL NOTES:

1 REFER TO THE EQUIPMENT SCHEDULE FOR ALL EQUIPMENT CONDUIT AND WIRE SIZING.

DRAWING NOTES:

1 EQUIPMENT MAINTENANCE RECEPTACLE: PROVIDE A 5-20R, T-SLOT, 20A WEATHER PROOF, GFI TYPE RECEPTACLE C/W WEATHERPROOF ENCLOSURE LOCATED WITHIN 7.5m OF EQUIPMENT. MOUNT AT 750mm AFR MINIMUM ON THE MECHANICAL EQUIPMENT STRUCTURE OR PROVIDE A UNI-STRUT STRUCTURE AND SECURE TO ROOF. ENSURE INSTALLATION IS IN ACCORDANCE TO THE CEC CODE 26-704.

1:50 0 500 1500 2500mm

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

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Friday, May 18, 2018 21:55 PM By: de los Santos, Ferdinand

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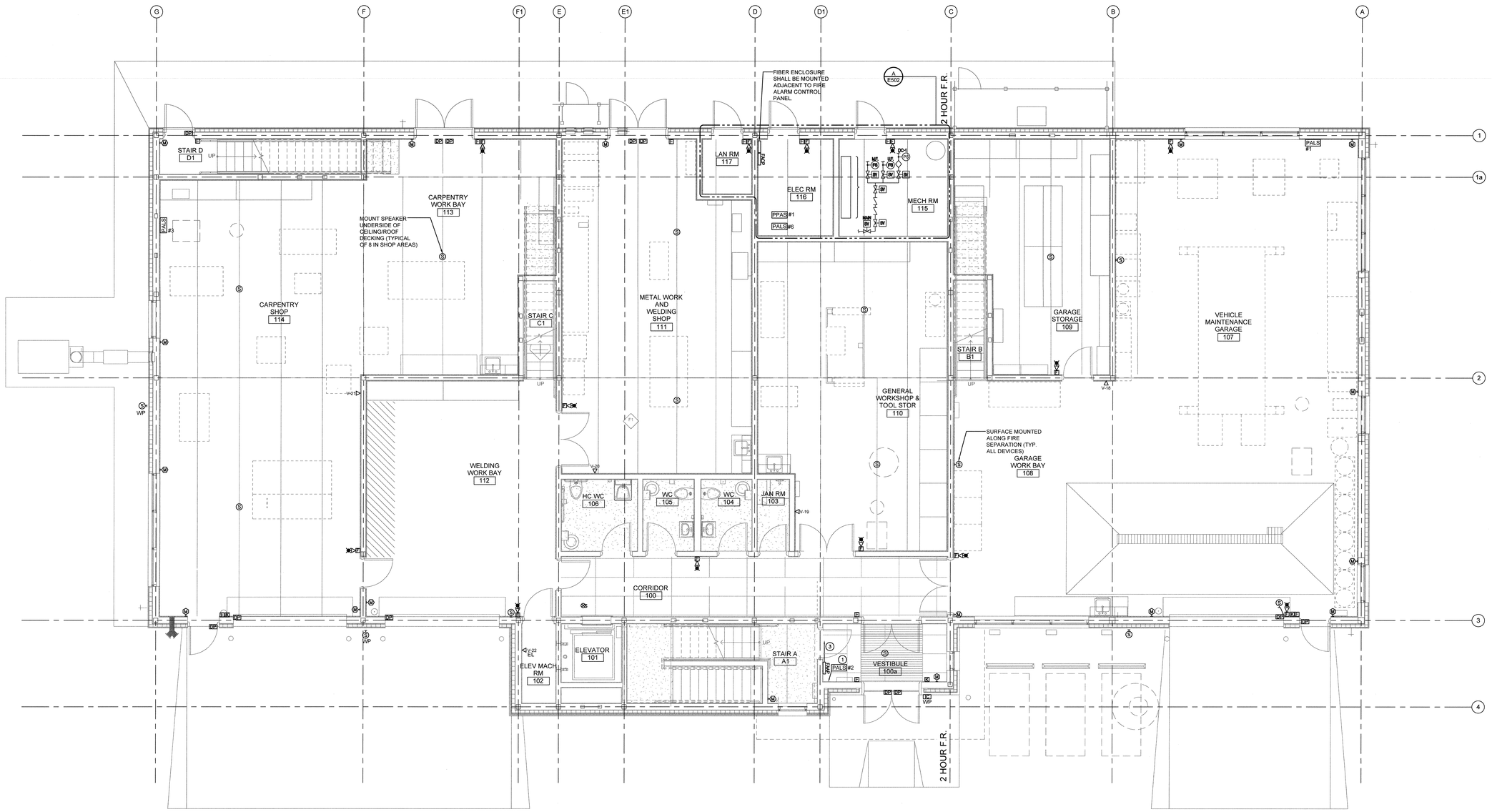
PREETIPAL PAUL

Drawing title/Titre du dessin

ROOF LIGHTING, POWER AND SYSTEMS PLAN

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	E303	1



1 / E401 MAIN FLOOR SYSTEMS PLAN
1:50

0 500 1000 2500mm
1:50

DRAWING NOTES:

1. PALS RECEIVER #2 AND UPS RECEPTACLE TO BE MOUNTED ABOVE T-BAR CEILING.
2. WALL MOUNTED, VANDAL & WEATHER RESISTANT INTERCOM SUB STATION. CONNECTED TO WALL MOUNTED MASTER STATION LOCATED IN OFFICE 205. STANDARD OF ACCEPTANCE: AIPHONE NE-SS.
3. 27mmC EMT TO ELECTRICAL ROOM 116. FROM FAAP TO FACP

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1	ISSUE FOR TENDER	18-05-02
Revision/ Revision	Description/Description	Date/Date

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
MB / DS

Drawn by/Dessine par
DS / HB

PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAIR

PWGSC Regional Manager, Architectural and Engineering Services/ Gestionnaire régional, Services d'architectural et de génie, TPSGC
PREETIPAL PAUL

Drawing title/Titre du dessin

MAIN FLOOR SYSTEMS PLAN

Project No./No. du projet	Sheet/ Feuille	Revision no./ No. de Révision no.
R.069377.001	E401	1

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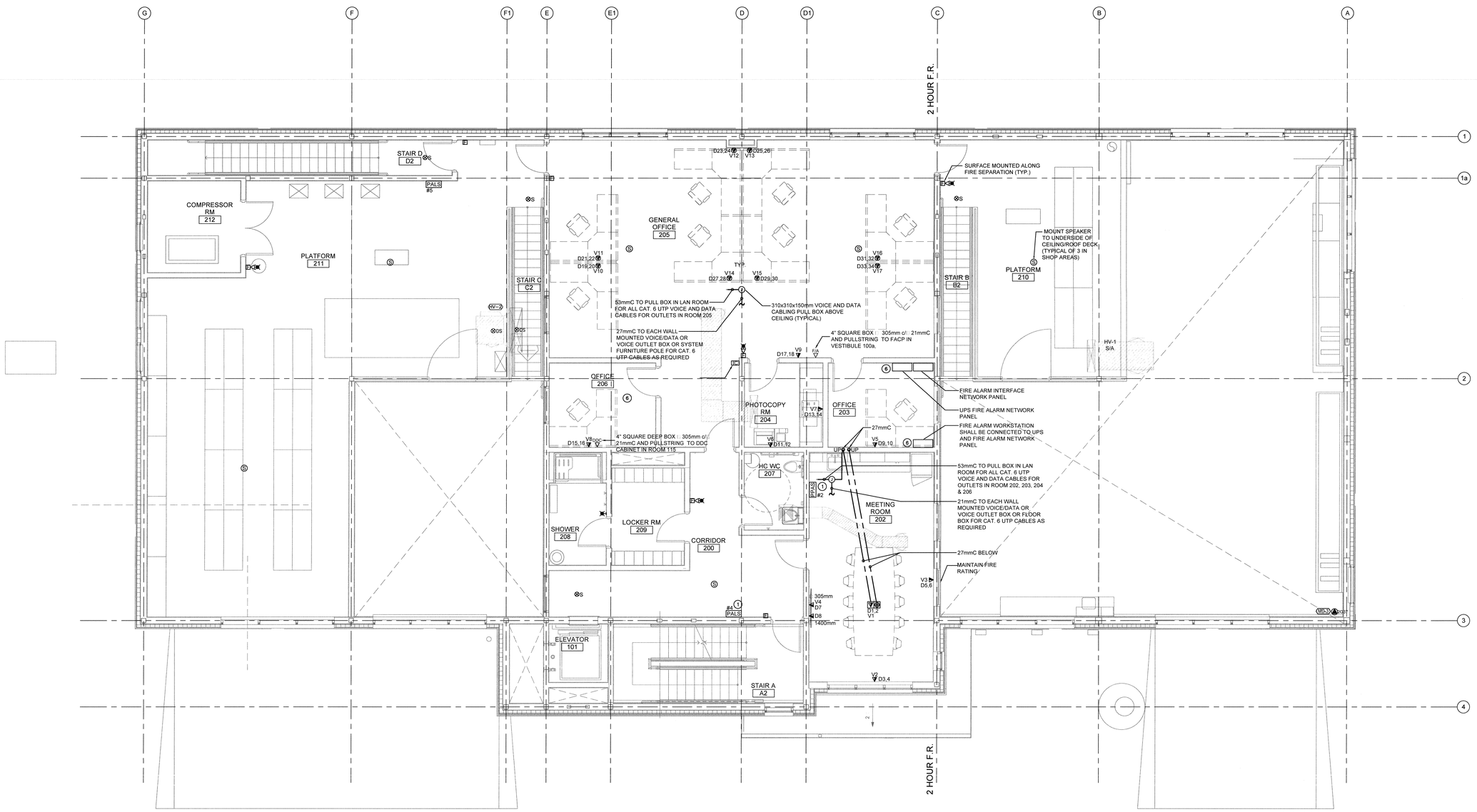
Friday, May 18, 2018 3:12:50 PM By: de los Santos, Ferdinand

PWGSC - A0 - 1189x841

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



1 / E402 UPPER FLOOR SYSTEMS PLAN
1:50

DRAWING NOTES:

1. PALS RECEIVER #4 AND PPA RECEIVER #2 WITH ASSOCIATED UPS RECEPTACLES TO BE MOUNTED ABOVE T-BAR CEILING.
2. FACEPLATES FOR RJ45 JACKS TO BE SUITABLE FOR MOUNTING IN KNOCKOUTS OF CORCAN FURNITURE RACEWAY. TYPICAL FOR ALL CORCAN FURNITURE SYSTEMS.
3. PROVIDE DUCT SMOKE DETECTOR IN SUPPLY AND RETURN AIR DUCT OF HV-2. LOCATED PER CEC.
4. PROVIDE BACKBOXES AND HDMI PORTS WITH CABLES @ 305mm AFF & 1400mm AFF FOR MONITOR.
5. WALL MOUNTED INTERCOM MASTER STATION. CONNECTED TO SUBSTATION LOCATED ON BUILDING EXTERIOR BY VESTIBULE 100a ENTRANCE DOORS. STANDARD OF ACCEPTANCE: AIPHONE NEM-10.
6. CONTRACTOR TO RELOCATE AND REINSTALL AN EXISTING MIRCOM FIRE ALARM WORKSTATION, AN EXISTING PORTABLE UPS, AND AN EXISTING DEDICATED FIRE ALARM INTERFACE NETWORK PANEL REQUIRED FOR THE WORKSTATION. THIS EQUIPMENT IS CURRENTLY LOCATED IN BUILDING B, ON THE WEST AREA OF THE SITE. PROVIDE A DEDICATED CIRCUIT/ RECEPTACLE IN OFFICE 203 FOR THE UPS AND THE WORKSTATION FROM PANEL '2C'. CONTRACTOR TO NOTE THAT THE NETWORK INTERFACE PANEL IS SEPARATE FROM THE MAIN BLDG. FACP LOCATED IN THE ELECTRICAL ROOM. CONTRACTOR SHALL PROVIDE A NETWORK INTERCONNECTION (FIBER LINK) FROM THE FACP IN THE ELECTRICAL ROOM TO THIS RELOCATED INTERFACE PANEL IN OFFICE 203. CONTRACTOR SHALL INTEGRATE THE NEW FACP, FOR BUILDING 107, WITH THE INSTITUTION SITE-WIDE FIRE ALARM SYSTEM. CONTRACTOR SHALL REMOVE AN EXISTING FIRE ALARM FIBER CABLE LINK BETWEEN EXISTING BUILDINGS B & 3. USE 'LC' FIBER TERMINAL CONNECTORS TO MATCH THE SITE STANDARD. PROVIDE A SYSTEM RE-VERIFICATION FOR THE AFFECTED EXISTING EQUIPMENT IN BLDG. B AND OTHER ZONES, AS REQUIRED. COORDINATE ALL REQUIREMENTS WITH THE DEPARTMENTAL REPRESENTATIVE PRIOR TO RELOCATION AND FINAL PLACEMENT OF THE EQUIPMENT.

1:50 0 500 1500 2500mm

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

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Friday, May 18, 2018 3:13:09 PM By: de los Santos, Fernando

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CORRECTIONAL SERVICE CANADA

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6000 William Head Road, Metchosin, BC

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PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAIR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régional, Services d'architecture et de génie, TPSGC
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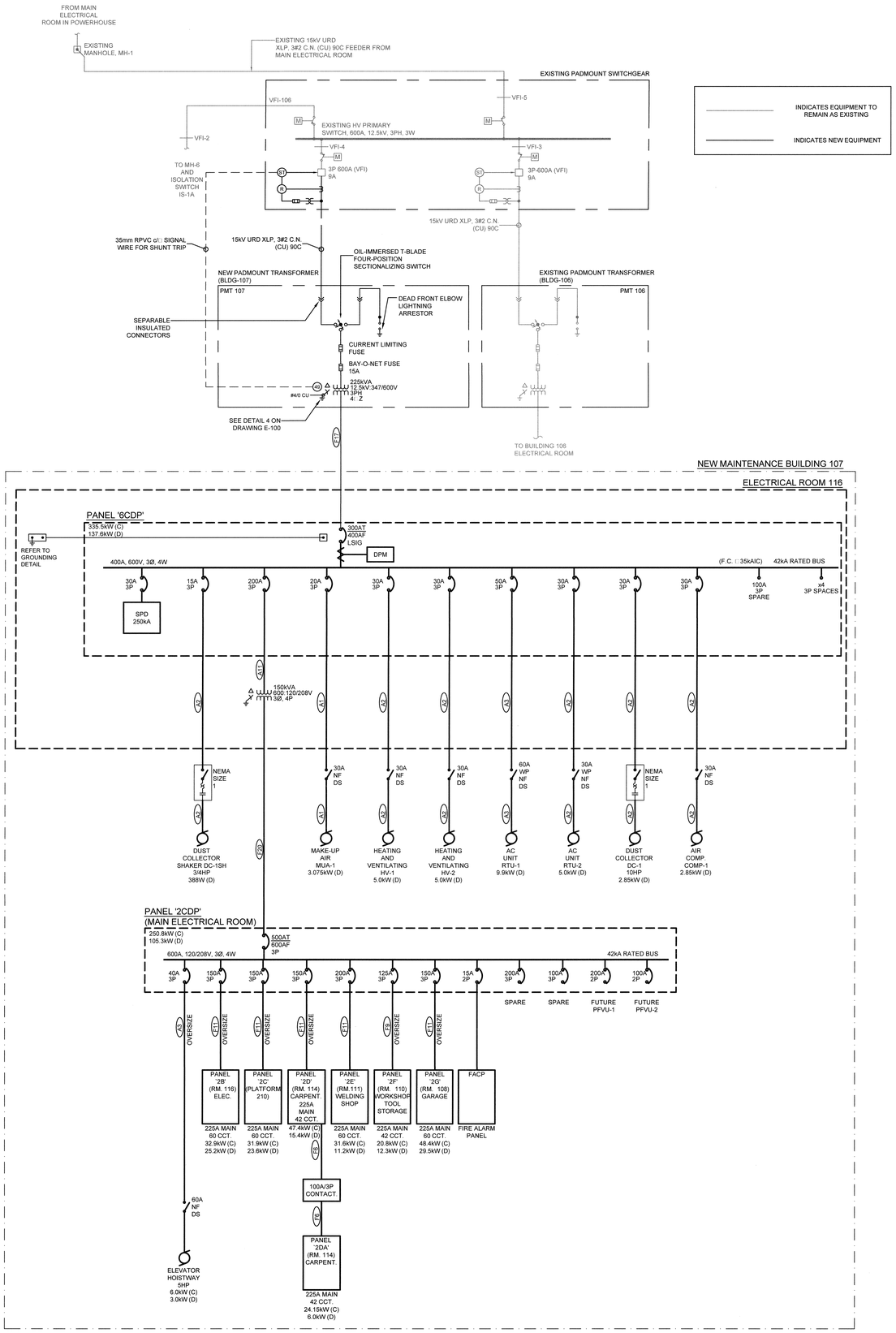
UPPER FLOOR SYSTEMS PLAN

Project No./No. du projet	Sheet/ Feuille	Revision no./ No Révision no.
R.069377.001	E402	1



1 E501 PARTIAL SINGLE LINE DIAGRAM
NTS

ELECTRICAL LOAD SUMMARY

BASED ON CANADIAN ELECTRICAL CODE (C22.1-15)

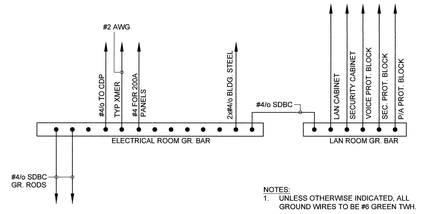
LIGHTING & RECEPTACLE LOAD	CONNECTED LOAD (W)	DEMAND FACTOR (%)	LOAD (W)	
FIRST FLOOR LIGHTING	2879	100	2,879	
SECOND FLOOR LIGHTING	4621	100	4,621	
OUTDOOR LIGHTING	708	100	708	
RECEPTACLES (PANEL 2B)	7160	60	4,296	
RECEPTACLES (PANEL 2C)	12580	60	7,548	
RECEPTACLES (PANEL 2DA)	0	60	0	
RECEPTACLES (PANEL 2D)	5900	60	3,540	
RECEPTACLES (PANEL 2E)	1080	60	648	
RECEPTACLES (PANEL 2F)	4220	60	2,532	
RECEPTACLES (PANEL 2G)	6220	60	3,732	
Sub Total (Demand)			**30,504**	W
SHOP EQUIPMENT LOAD				
	CONNECTED LOAD (W)	DEMAND FACTOR (%)	LOAD (W)	
CARPENTRY SHOP 114 (PANEL '2D')	39,150	25	9,788	
WELDING SHOP 111 (PANEL '2E')	25,360	25	6,340	
WORKSHOP TOOL STORAGE 110 (PANEL '2F')	6,680	25	1,670	
GARAGE 107/108 (PANEL '2G')	27,700	25	6,925	
Sub Total (Demand)			**24,723**	W
MECHANICAL LOAD				
	CONNECTED LOAD (W)	DEMAND FACTOR (%)	LOAD (W)	
ELECTRIC HEATING	43,178	75	32,384	
ROOFTOP UNITS (HV, RTU, MUA) 600V	37,367	75	28,025	
EXHAUST FANS	8,672	75	6,504	
MISC. MECHANICAL EQUIPMENT	4,236	75	3,177	
Sub Total (Demand)			**70,090**	W
OTHER LOADS				
	CONNECTED LOAD (W)	DEMAND FACTOR (%)	LOAD (W)	
ELEVATOR	6,000	100	6,000	
DUST COLLECTOR (10HP)	12,767	25	3,192	
SHOP AIR COMPRESSOR)	12,282	25	3,071	
Sub Total (Demand)			**12,262**	W
SERVICE SIZE				
TOTAL LOAD (CONNECTED)			**335,508**	W
TOTAL LOAD (DEMAND)			**137,579**	W
TOTAL AMPACITY (@ 600V)			323	A
x 125%			404	A
A 400A 347/600V, THREE-PHASE SERVICE WILL BE PROVIDED.				

FEEDER SCHEDULE

FEEDER AMPACITY	CODE (A)	3 WIRE	COND. SIZE (mm)	FEEDER AMPACITY	CODE (F)	4 WIRE	COND. SIZE (mm)
25	A1	3#12	21	25	F1	4#12	21
35	A2	3#10	21	35	F2	4#10	21
50	A3	3#8	27	50	F3	4#8	27
65	A4	3#6	27	65	F4	4#6	35
85	A5	3#4	35	85	F5	4#4	35
100	A6	3#3	35	100	F6	4#3	41
115	A7	3#2	35	115	F7	4#2	41
130	A8	3#1	41	130	F8	4#1	53
150	A9	3#1/0	53	150	F9	4#1/0	53
175	A10	3#2/0	53	175	F10	4#2/0	53
200	A11	3#3/0	53	200	F11	4#3/0	63
230	A12	3#4/0	63	230	F12	4#4/0	63
255	A13	3#250MCM	63	255	F13	4#250MCM	78
285	A14	3#300MCM	78	285	F14	4#300MCM	78
310	A15	3#350MCM	78	310	F15	4#350MCM	78
335	A16	3#400MCM	78	335	F16	4#400MCM	78
380	A17	3#500MCM	103	380	F17	4#500MCM	103
400	A18	2(3#3/0)	2X53	400	F18	2(4#3/0)	2X63
510	A19	2(3#250MCM)	2X63	510	F19	2(4#250MCM)	2X78
570	A20	2(3#300MCM)	2X78	570	F20	2(4#300MCM)	2X78
620	A21	2(3#350MCM)	2X78	620	F21	2(4#350MCM)	2X78
855	A22	3(3#300MCM)	3X78	855	F22	3(4#300MCM)	3X78
1005	A23	3(3#400MCM)	3X103	1005	F23	3(4#400MCM)	3X103
1140	A24	4(3#300MCM)	4X103	1140	F24	4(4#300MCM)	4X103

NOTES

1. CONTRACTOR SHALL INCLUDE BONDING AND GROUNDING WIRES AS REQUIRED BY CEC.
2. ALL FEEDERS TO BE COPPER RW90 UNLESS OTHERWISE NOTED.



NOTES:
1. UNLESS OTHERWISE INDICATED, ALL GROUND WIRES TO BE #6 GREEN TWH.

2 E501 GROUNDING SYSTEM DETAIL
NTS

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CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par: MB / DS

Drawn by/Dessiné par: DS / HB

PWGSC Project Manager/Administrateur de Projets TPSGC: DARYL SINCLAIR

PWGSC Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architecture et de génie, TPSGC: PREETIPAL PAUL

Drawing title/Titre du dessin

SINGLE LINE DIAGRAM AND LOAD CALCULATION

Project No./No. du projet	Sheet/ Feuille	Revision no./ Révision no.
R.069377.001	E501	1

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Friday, May 18, 2018 07:13:54 PM By: de los Santos, Ferdinand

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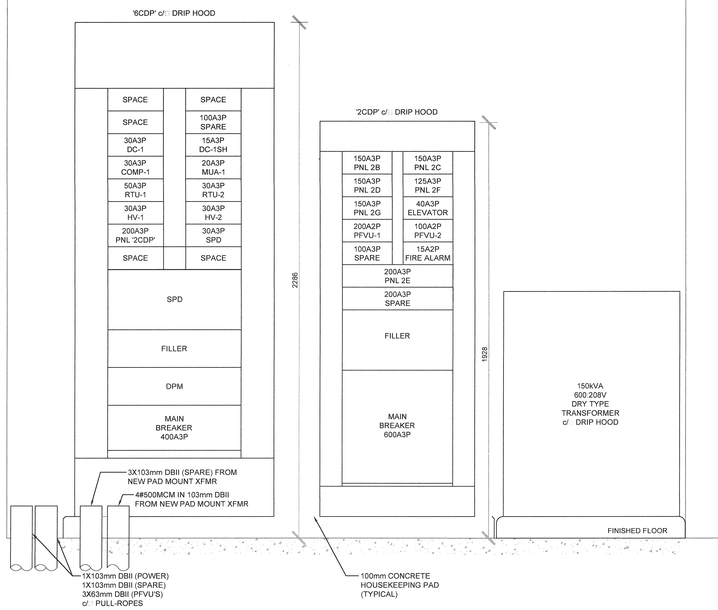
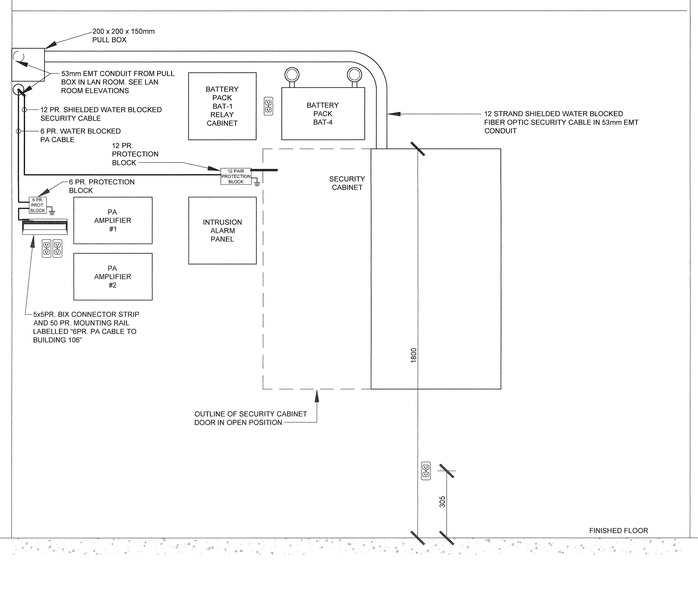
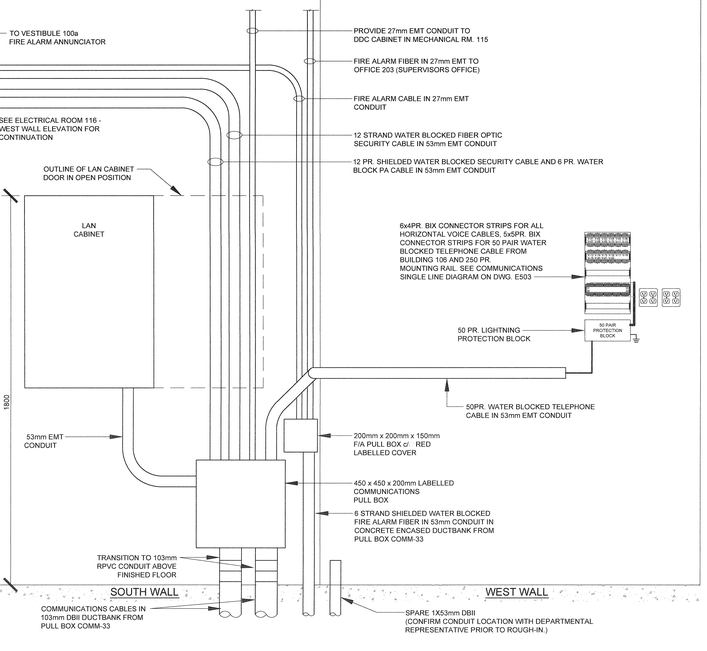


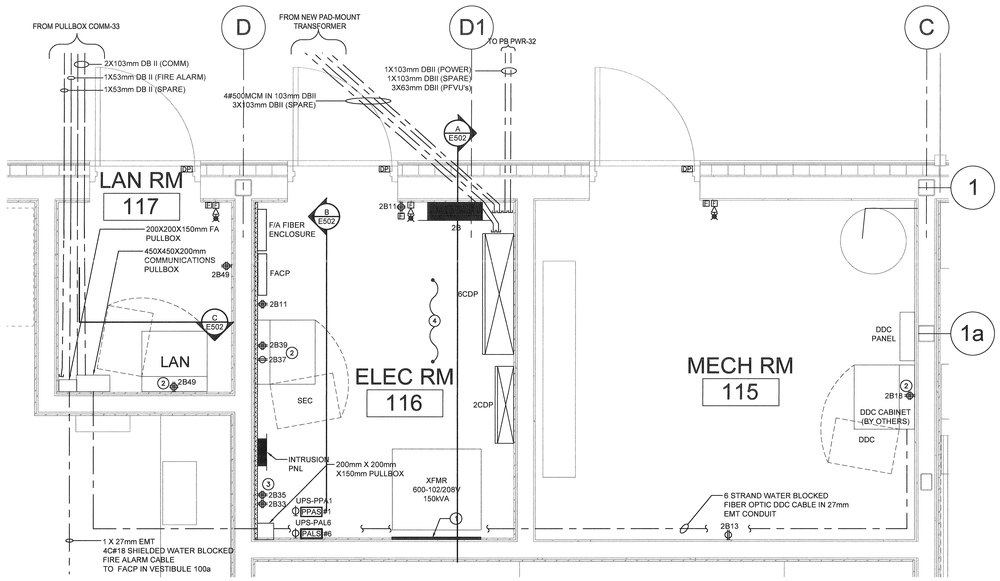
A E502 ELECTRICAL ROOM 116 - EAST WALL ELEVATION
1:10



B E502 ELECTRICAL ROOM 116 - WEST WALL ELEVATION
1:10



C E502 LAN ROOM 117 - SOUTH/WEST WALL ELEVATION
1:10



1 E502 MECHANICAL / ELECTRICAL / LAN ROOM ENLARGED PLANS
1:20

ELECTRICAL ROOM NOTES:

1. PROVIDE 6mm CONCRETE BOARD MOUNTED ON THE WALL BEHIND THE TRANSFORMER.
2. RECEPTACLE TO BE MOUNTED INSIDE CABINET.
3. LOCATION OF RECEPTACLES 2833 & 2835 TO BE CONFIRMED ON SITE WITH DEPARTMENTAL REP.
4. MAINTAIN 305mm TO 600mm SEPARATION BETWEEN L.V. EQUIPMENT AND CABLING TO LINE VOLTAGE (120V-600V) EQUIPMENT AND CABLING TO MITIGATE INTERFERENCE.

0 100 300 500mm
1:10
0 300 600 1000mm
1:20

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

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PWGSC, Regional Manager, Architectural and Engineering Services/ TPSGC, Gestionnaire régional, Services d'architectural et de génie, TPSGC: PREETIPAL PAUL

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ELECTRICAL, LAN AND MECH. ROOMS ENLARGED PLANS AND ELEVATIONS

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	E502	1

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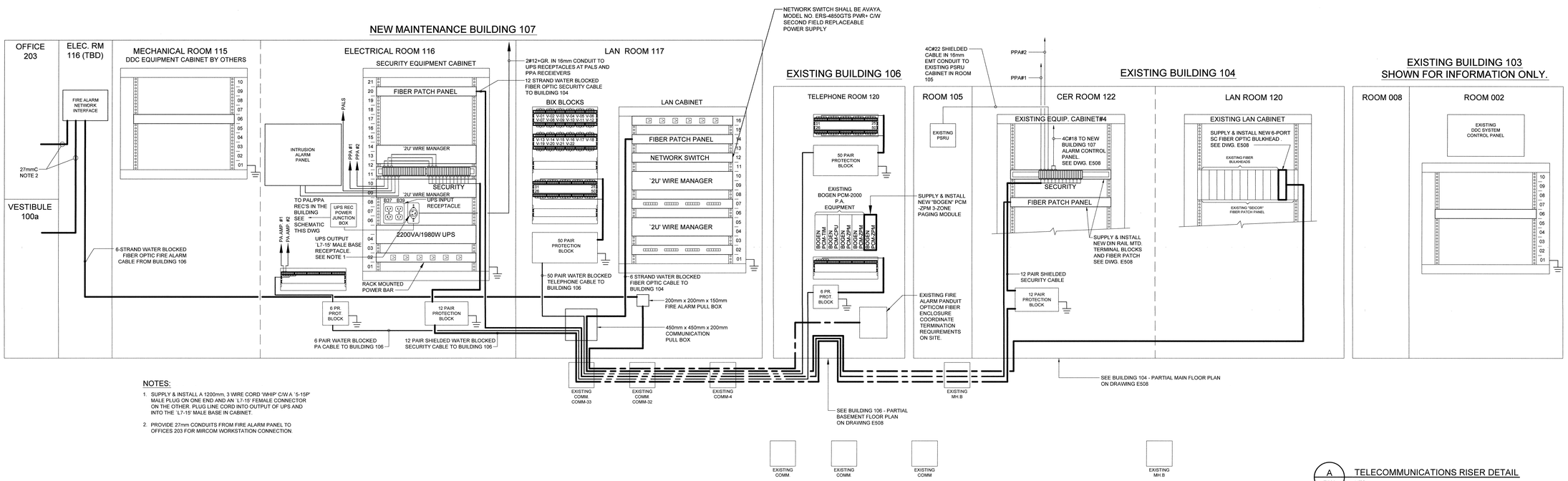
Monday, May 21, 2018 9:13:14 AM By: Cheung, Chelsea

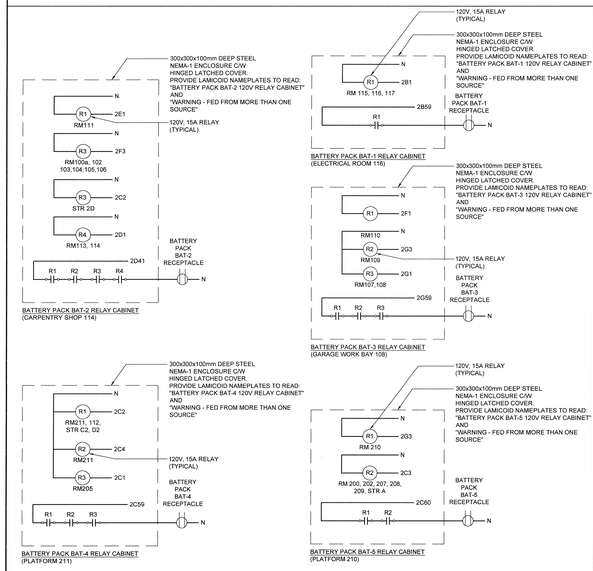
PWGSC - A0 - 1189x841



NOTES:

1. SUPPLY & INSTALL A 1200mm, 3 WIRE CORD 'WHIP' C/W A '5-15P' MALE PLUG ON ONE END AND AN 'L7-15' FEMALE CONNECTOR ON THE OTHER. PLUG LINE CORD INTO OUTPUT OF UPS AND INTO THE 'L7-15' MALE BASE IN CABINET.
2. PROVIDE 27mm CONDUITS FROM FIRE ALARM PANEL TO OFFICES 203 FOR MIRCOM WORKSTATION CONNECTION.

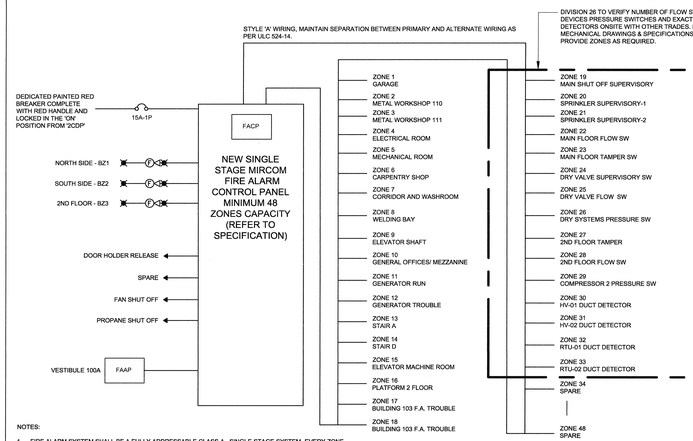
A E503 TELECOMMUNICATIONS RISER DETAIL
NTS



B E503 D.C. EMERGENCY LIGHTING BATTERY PACK RELAY CABINET WIRING DIAGRAMS
NTS

INDICATIVE LAYOUT

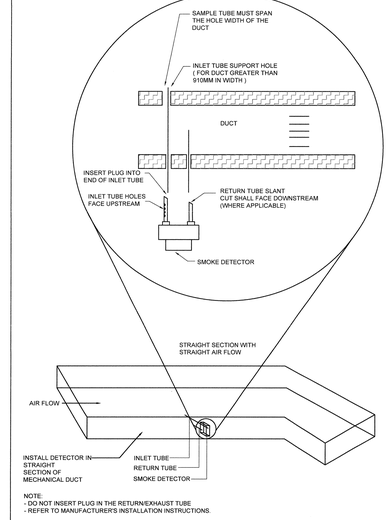
C E503 ACTIVE FIELD DEVICES AND SUPPORTING FIELD DEVICES CONNECTED TO DATA COMMUNICATION LINK STYLE C
NTS



NOTES:

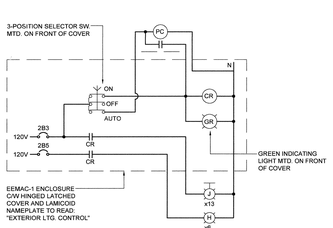
1. FIRE ALARM SYSTEM SHALL BE A FULLY ADDRESSABLE CLASS A, SINGLE STAGE SYSTEM. EVERY ZONE INDICATED ON FIRE ALARM SCHEDULE IS TO BE INSTALLED WITH ISOLATION MODULES SUCH THAT NOT MORE THAN ONE ZONE CAN BE DISABLED BY A SINGLE WIRING FAULT.
2. CONTRACTOR TO SUPPLY ALL MONITORING MODULES FOR AUXILIARY TROUBLE CONTACTS AS REQUIRED.
3. ALL FIRE ALARM WIRING SHALL BE IN CONDUIT. ALL JUNCTION BOXES TO HAVE RED, LABELLED COVERS.
4. ALL FIRE ALARM WIRING TO CONFORM TO THE CLASS A STANDARD. PROVIDE DEDICATED SURGE PROTECTION ON CIRCUIT WHERE REQUIRED AND RECOMMENDED BY THE MANUFACTURER.
5. FACP TO BE c/w CUSTOM 'RED' PAINTED FINISH TO MATCH SITE STANDARD OF INSTALLATION.

D E503 TYPICAL FIRE ALARM RISER
NTS

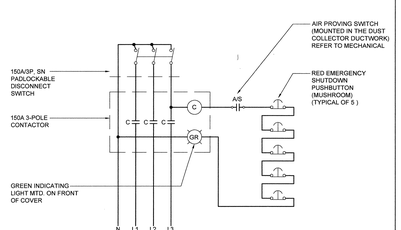


NOTE:
- DO NOT INSERT PLUG IN THE RETURN/EXHAUST TUBE
- REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.

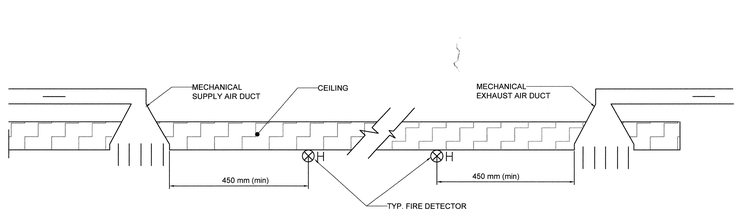
E E503 TYPICAL SMOKE DUCT DETECTOR INSTALLATION
NTS



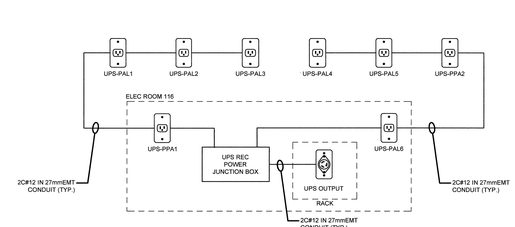
F E503 EXTERIOR LIGHTING CONTROL DIAGRAM
NTS



G E503 PANEL '2DA' CONTACTOR CONTROL DIAGRAM
NTS



H E503 TYPICAL FIRE DETECTOR INSTALLATION
NTS



J E503 UPS RECEPTACLE SCHEMATIC
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PREETIPAL PAUL

Drawing title/Titre du dessin

RISER DIAGRAMS AND SCHEMATICS

Project No./No. du projet	Sheet/Feuille	Revision no./ Le Révision no.
R.069377.001	E503	1

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Monday, May 21, 2018 9:14:22 AM By: Dheng, Chelsea

PWGSC - A0 - 1189x841

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

PANEL: 6CDP

LOCATION: ELECTRICAL ROOM 116

NOTE	LOAD	TYPE	DESCRIPTION	BRKR	CCT	PHASE	CCT	BRKR	DESCRIPTION	TYPE	LOAD	NOTE
			SPACE		11	A	13		SPACE			
						B						
						C						
			SPACE		9	A	12	60A3P	SPARE			
						B						
						C						
	3806	E	DUST COLLECTOR DC-1	30A3P	7	A	10	15A3P	DUST COLLECTOR SHAKER DC-1SH	E	450	
	3806	E				B				E	450	
	3806	E				C				E	450	
	3806	E	AIR COMPRESSOR COMP-1	30A3P	9	A	8	20A3P	MAKE-UP AIR MUA-1	M	1384	
	3806	E				B				M	1384	
	3806	E				C				M	1384	
	4429	M	HEATING AND VENTILATING RTU-1	50A3P	5	A	6	30A3P	HEATING AND VENTILATING RTU-2	M	2214	
	4429	M				B				M	2214	
	4429	M				C				M	2214	
	2214	M	HEATING AND VENTILATING HV-1	30A3P	3	A	4	30A3P	HEATING AND VENTILATING HV-2	M	2214	
	2214	M				B				M	2214	
	2214	M				C				M	2214	
	83824	E	PNL "2CDP" VIA 112.5kVA TRANSF.	200A3P	1	A	2	30A3P	SPD			
	83824	E				B						
	83824	E				C						

	LOAD BREAKDOWN	CONNECTED	DERATED		PANEL DESCRIPTION			
L	LIGHTING:	0	100%	0	VOLTAGE	:	600	V
C	COOLING:	0	40%	0	PHASE	:	3	
H	HEATING:	0	80%	0	AMPERAGE	:	133	A
M	MECHANICAL:	60550	80%	48440	PANEL AMPACITY	:	400	A
R	GENERAL RECEPTACLES:	0	60%	0	MAIN BREAKER	:	300	A
E	OWNER EQUIPMENT:	275658	32%	89368	# OF TUBS	:	1	
TOTAL:		336208	W	137808				

NOTE DESCRIPTION	
1	
2	
3	

PANEL: 2CDP

LOCATION: ELECTRICAL ROOM 116

NOTE	LOAD	TYPE	DESCRIPTION	BRKR	CCT	PHASE	CCT	BRKR	DESCRIPTION	TYPE	LOAD	NOTE
	10543	R	PANEL "2B" ELECTRICAL RM 116	150A3P	1	A	2	150A3P	PANEL "2C" PLATFORM 210	R	10804	
	10543	R				B				R	10804	
	10543	R				C				R	10804	
	15816	R	PANEL "2D" CARPENTRY SHOP	150A3P	3	A	4	125A3P	PANEL "2F" WORKBAY, RM 110	E	6932	
	15816	R				B				E	6932	
	15816	R				C				E	6932	
	16124	E	PANEL "2G" MAINTAN. GARAGE RM107	150A3P	5	A	6	40A3P	ELEVATOR HOISTWAY ROOM 102	M	2000	
	16124	E				B				M	2000	
	16124	E				C				M	2000	
	10803	E	PANEL "2E" WELDING SHOP, RM 111 (BKR TAKES UP 2 SPACES 7&8)	200A3P	7	A	8	N/A	PANEL "2E" WELDING SHOP, RM 111 (BKR TAKES UP 2 SPACES 7&8)	E	10803	
	10803	E				B				E	10803	
	10803	E				C				E	10803	
			SPARE (2 SPACES 9&10)	200A3P	9	A	10	N/A	SPARE (2 SPACES 9&10)			
						B						
						C						
			SPACE		11	A	12		SPACE			
						B						
						C						
			SPACE		13	A	14		SPACE			
						B						
						C						

	LOAD BREAKDOWN	CONNECTED	DERATED		PANEL DESCRIPTION			
L	LIGHTING:	0	100%	0	VOLTAGE	:	208	V
C	COOLING:	0	80%	0	PHASE	:	3	
H	HEATING:	0	80%	0	AMPERAGE	:	292	A
M	MECHANICAL:	6000	80%	4800	PANEL AMPACITY	:	600	A
R	GENERAL RECEPTACLES:	111489	60%	66894	MAIN BREAKER	:	600	A
E	OWNER EQUIPMENT:	133984	25%	33496	# OF TUBS	:	1	
TOTAL:		251473	W	105189				

NOTE DESCRIPTION	
1	
2	
3	

PANEL: 2B

LOCATION: ELECTRICAL ROOM 116

NOTE	LOAD	TYPE	DESCRIPTION	BRKR	CCT	PHASE	CCT	BRKR	DESCRIPTION	TYPE	LOAD	NOTE
	318	L	LIGHTING/BAT-1 - RMS 115,116,117	15A1P	1	A	2	15A1P	SPARE			
	564	L	LIGHTING "J" - EXTERIOR WALL	15A1P	3	B	4	20A1P	ELEC FF HTR FFH-6, RM 115	H	1500	
	144	L	LIGHTING "H" - EXTERIOR CANOPY	15A1P	5	C	6	15A1P	EXHAUST FAN EF-14, RM 117	M	23	
		L	EXIT SIGNS	15A1P	7	A	8	15A1P	O/A DAMPER MD-5, RM 116	M	746	
	1080	R	REC GF MAINTENANCE - ROOF	20A1P	9	B	10	15A1P	EXHAUST FAN EF-15, RM 116	M	224	
	360	R	GENERAL REC, RM 116	15A1P	11	C	12	15A1P	O/A DAMPER MD-6, RM 116	M	746	
	360	R	GENERAL REC, RM 115	15A1P	13	A	14	15A1P	ELECT BASEB HTR EBH-3, RM 116	H	750	
	180	R	GENERAL REC, RM 117	15A1P	15	B	16	15A1P	TP, RM 115	M	100	
	540	R	GENERAL GF REC EXTERIOR	20A1P	17	C	18	15A1P	REC - DDC PANEL	R	500	1
	500	M	DHWH-1, ROOM 115	20A1P	19	A	20	15A1P	WORKBENCH B1 - LIGHTING	L	200	
	250	M	COMP-2, ROOM 115	15A1P	21	B	22	15A1P	WORKBENCH B1 - REC	R	300	1
	104	M	INDOOR EVAPORATOR	15A2P	23	C	24	15A1P	WORKBENCH B1 - REC	R	300	1
	104	M	IAC-1		25	A	26	15A1P	WORKBENCH B1 - REC	R	300	1
	2000	M	ELEC FF HTR FFH-7	30A2P	27	B	28	15A1P	SPARE			
	2000	M	STR A3		29	C	30	15A1P	SPARE			
	500	R	REC - FIRE ALARM PANEL	15A1P	31	A	32	15A1P	SPARE			
1	500	R	INTRUSION DEDICATED REC - RM 116	15A1P	33	B	34	15A1P	REC GF - RM 101,102	R	360	
1	500	R	INTRUSION DEDICATED REC - RM 116	15A1P	35	C	36	15A1P	LIGHTING - ELEVATOR CABIN	L	550	
1	500	R	SECURITY DEDICATED REC - RM 116	15A1P	37	A	38	30A2P	ELEC FF HTR FFH-1	H	2000	
1	500	R	SECURITY DEDICATED REC - RM 116	15A1P	39	B	40		STR A1	H	2000	
	180	R	GENERAL REC, RM 117	15A1P	41	C	42	30A2P	ELEC FF HTR FFH-2	H	2000	
	90	M	MOTOR DAMPER MD-1	15A1P	43	A	44		VESTIBULE 100	H	2000	
	2000	H	ELEC FF HTR FFH-3	30A2P	45	B	46	15A1P	DHW RECIRC PUMP DWP-1	M	528	
	2000	H	STR D1		47	C	48	15A1P	DHW RECIRC PUMP DWP-2	M	528	
1	500	E	LAN CABINET DEDICATED CIRCUIT	15A1P	49	A	50	15A1P	SPARE			
			SPARE	15A1P	51	B	52	15A1P	SPARE			
			SPARE	15A1P	53	C	54	15A1P	SPARE			
			SPARE	15A1P	55	A	56		SPARE			
			SPACE		57	B	58		SPACE			
	200	R	REC. EMERG. LTG. BAT-1	15A1P	59	C	60		SPACE			

	LOAD BREAKDOWN	CONNECTED	DERATED		PANEL DESCRIPTION			
L	LIGHTING:	1776	100%	1776	VOLTAGE	:	208	V
C	COOLING:	0	80%	0	PHASE	:	3	
H	HEATING:	14250	80%	11400	AMPERAGE	:	67	A
M	MECHANICAL:	7943	80%	6354	PANEL AMPACITY	:	225	A
R	GENERAL RECEPTACLES:	7160	60%	4296	MAIN BREAKER	:	N/A	A
E	OWNER EQUIPMENT:	500	80%	400	# OF TUBS	:	1	
TOTAL:		31629	W	24226				

NOTE DESCRIPTION	
1	DEDICATED CIRCUIT
2	
3	

PANEL: 2C

LOCATION: PLATFORM 210 (2ND FLR.)

NOTE	LOAD	TYPE	DESCRIPTION	BRKR	CCT	PHASE	CCT	BRKR	DESCRIPTION	TYPE	LOAD	NOTE
	651	L	LIGHTING GENERAL OFFICES	20A1P	1	A	2	20A1P	LTG - RM 211, 112, STR D1/2 / BAT-4	L	979	
	662	L	LIGHTING -COR.,STRS,LCKR RM	20A1P	3	B	4	20A1P	LIGHTING - PLATFORM, RM 211	L	444	
			SPARE	15A1P	5	C	6	15A1P	SPARE			
	283	M	EXHST FANS EF-6,9, 10,13	15A1P	7	A	8	15A1P	GENERAL REC, RM 205	R	720	
	750	H	BB HTR EBH-5, RM 207	15A1P	9	B	10	15A1P	GENERAL REC, RM 205	R	720	
	408	H	UNIT HTR UH-5, 210	15A1P	11	C	12	15A1P	GENERAL REC, RM 205, 206	R	720	
1	500	R	REC PHOTOCOPIER-RM204	20A1P	13	A	14	15A1P	GENERAL REC, RM 203,205	R	720	
	540	R	REC - RM 211	15A1P	15	B	16	15A1P	REC- OFF. 203, RM 210	R	540	
	1392	M	EXHST FANS EF-11, 12 RM 211, 212	15A1P	17	C	18	15A1P	REC- OFF. 203, 205, 206, RM 210	R	1080	
	60	M	EXHAUST FAN EF-6	15A1P	19	A	20	15A1P	REC- OFF. 205, RM 210	R	720	
	816	H	UNIT HEATER UH-4, UH-6 RM 211	15A1P	21	B	22	20A1P	REC PHOTOCOPIER-RM204	R	500	1
	110	M	CEILING FAN CF4 RM112	15A1P	23	C	24	15A1P	REC PHOTOCOPIER-RM204	R	500	1
	37	M	EXHST FAN EF-8, ROOF	15A1P	25	A	26	15A1P	REC PHOTOCOPIER-RM204	R	500	1
	750	H	BB HTR EBH-4, RM212	15A1P	27	B	28	15A1P	REC-MTG RM 202, 200, RM 209	R	720	
	200	M	TP, RM 207, 212	15A1P	29	C	30	15A1P	REFRIGERATOR RM 202	R	500	1
	90	M	MOTOR DAMPER MD-1	15A1P	31	A	32	15A1P	REC GF, RM 202, 207	R	720	
					33	B	34	15A1P	QUAD REC. RM 200,202,209	R	540	
	540	R	REC - RM 211	15A1P	35	C	36	15A1P	QUAD REC. RM 202	R	540	
			SPARE	15A1P	37	A	38	15A1P	MICROWAVE ROOM 202	R	500	
			SPARE	15A1P	39	B	40	15A1P	QUAD REC. RM 202 - MONITOR	R	360	
			SPARE	15A1P	41	C	42	15A1P	F/A WORKSTATION RM. 203	R	450	
	750	H	ELEC. DUCT HEATER EDH-2	15A1P	43	A	44	30A3P	ELEC. DUCT HEATER EDH-1	H	2667	
	750	H	ELEC. DUCT HEATER EDH-3	15A1P	45	B	46			H	2667	
	1500	H	ELEC. DUCT HEATER EDH-4	20A1P	47	C	48			H	2667	
	750	H	ELEC. DUCT HEATER EDH-5	15A1P	49	A	50	15A1P	SPARE			
			SPARE	15A1P	51	B	52	15A1P	SPARE			
			SPARE	15A1P	53	C	54		SPACE			
			SPACE		55	A	56		SPACE			
			SPACE		57	B	58		SPACE			
	200	R	REC. EMERG. LTG. BAT-4	15A1P	59	C	60	15A1P	REC. EMERG. LTG. BAT-5	R	200	

	LOAD BREAKDOWN	CONNECTED	DERATED		PANEL DESCRIPTION			
L	LIGHTING:	2736	100%	2736	VOLTAGE	:	208	V
C	COOLING:	0	80%	0	PHASE	:	3	
H	HEATING:	14474	80%	11579	AMPERAGE	:	66	A
M	MECHANICAL:	2172	80%	1738	PANEL AMPACITY	:	225	A
R	GENERAL RECEPTACLES:	13030	60%	7818	MAIN BREAKER	:	N/A	A
E	OWNER EQUIPMENT:	0	80%	0	# OF TUBS	:	1	
TOTAL:		32412	W	23871				

NOTE DESCRIPTION	
1	DEDICATED CIRCUIT
2	
3	

PANEL: 2D

LOCATION: CARPENTRY SHOP 114

NOTE	LOAD	TYPE	DESCRIPTION	BRKR	CCT	PHASE	CCT	BRKR	DESCRIPTION	TYPE	LOAD	NOTE
	814	L	LIGHTING/BAT-2 - CRPNTRY RM 114	20A1P	1	A	2	15A1P	REC - GENERAL	R	900	
1	500	R	REC GFI- COUNTER RM 114	15A1P	3	B	4	15A1P	SPARE			
1	500	R	REC GFI- COUNTER RM 114	15A1P	5	C	6	15A1P	SPARE			
	540	R	REC - RM 114	15A1P	7	A	8	30A3P	OVERHEAD DOOR RM 114	E	2500	
1	500	R	REC - WORK TABLE, RM 114	15A1P	9	B	10			E	2500	
1	500	R	REC - WORK TABLE, RM 114	15A1P	11	C	12			E	2500	
1	500	R	REC - WORK TABLE, RM 114	15A1P	13	A	14	30A3P	OVERHEAD DOOR RM 112	E	2500	
1	500	R	REC - WORK TABLE, RM 114	15A1P	15	B	16			E	2500	
	540	R	REC - GENERAL	15A1P	17	C	18			E	2500	
	90	M	MOTOR DAMPER MD-2	15A1P	19	A	20	15A1P	UNIT HTR UH-2-CARPENTRY SHOP	H	410	
			SPARE	15A1P	21	B	22	15A1P	UNIT HTR UH-1-CARPENTRY SHOP	H	410	
			SPARE	15A1P	23	C	24	15A1P	DAMPER MD-2, RM 114	M	200	
			SPARE	15A1P	25	A	26	15A1P	CF-4, RTH-3, RM 112	M	475	
			SPARE	15A1P	27	B	28	15A1P	SPARE			
			SPARE	15A1P	29	C	30	15A1P	SPARE			
	720	R	REC-WELDING WORK BAY	15A1P	31	A	32		SPACE			
			SPARE	15A1P	33	B	34		SPACE			
			SPARE	15A1P	35	C	36		SPACE			
			SPACE		37	A	38	100A3P	PANEL "2DA"-CARPENTRY SHOP	E	8050	
			SPACE		39	B	40			E	8050	
	200	R	REC. EMERG. LTG. BAT-2	15A1P	41	C	42			E	8050	

	LOAD BREAKDOWN	CONNECTED	DERATED		PANEL DESCRIPTION			
L	LIGHTING:	814	100%	814	VOLTAGE	:	208	V
C	COOLING:	0	80%	0	PHASE	:	3	
H	HEATING:	820	80%	656	AMPERAGE	:	43	A
M	MECHANICAL:	765	80%	612	PANEL AMPACITY	:	225	A
R	GENERAL RECEPTACLES:	5900	60%	3540	MAIN BREAKER	:	N/A	A
E	OWNER EQUIPMENT:	39150	25%	9788	# OF TUBS	:	1	
TOTAL:		47449	W	15410				

NOTE DESCRIPTION	
1	DEDICATED CIRCUIT
2	
3	

PANEL: 2DA

LOCATION: CARPENTRY SHOP 114

NOTE	LOAD	TYPE	DESCRIPTION	BRKR	CCT	PHASE	CCT	BRKR	DESCRIPTION	TYPE	LOAD	NOTE
	2500	E	TABLE SAW C1	40A2P	1	A	2	20A2P	BAND SAW C6	E	1200	
	2500	E			3	B	4			E	1200	
	1200	E	ROUTER C2	15A1P	5	C	6	20A2P	SANDER C7	E	1200	
	2500	E	PLANER C3	40A2P	7	A	8			E	1200	
	2500	E			9	B	10	15A1P	CHOP SAW C8	E	1000	
	1875	E	JOINER C4	30A2P	11	C	12	20A2P	DRILL PRESS C9	E	1200	
	1875	E			13	A	14			E	1200	
			SPARE	15A1P	15	B	16	15A1P	GRINDER C10	E	1000	
			SPARE	15A1P	17	C	18	15A1P	SPARE			
			SPARE	15A1P	19	A	20	15A1P	SPARE			
			SPARE	15A1P	21	B	22	15A1P	SPARE			
			SPARE	15A1P	23	C	24	15A1P	SPARE			
			SPARE	15A1P	25	A	26	15A1P	SPARE			
			SPARE	15A1P	27	B	28	15A1P	SPARE			
			SPACE		29	C	30		SPACE			
			SPACE		31	A	32		SPACE			
			SPACE		33	B	34		SPACE			
			SPACE		35	C	36		SPACE			
			SPACE		37	A	38		SPACE			
			SPACE		39	B	40		SPACE			
			SPACE		41	C	42		SPACE			

	LOAD BREAKDOWN	CONNECTED	DERATED		PANEL DESCRIPTION			
L	LIGHTING:	0	100%	0	VOLTAGE	:	208	V
C	COOLING:	0	80%	0	PHASE	:	3	
H	HEATING:	0	80%	0	AMPERAGE	:	17	A
M	MECHANICAL:	0	80%	0	PANEL AMPACITY	:	225	A
R	GENERAL RECEPTACLES:	0	60%	0	MAIN BREAKER	:	N/A	A
E	OWNER EQUIPMENT:	24150	25%	6038	# OF TUBS	:	1	
TOTAL:		24150	W	6038				

NOTE DESCRIPTION	
1	
2	
3	

PANEL: 2E

LOCATION: METAL WORK AND WELDING SHOP 111

NOTE	LOAD	TYPE	DESCRIPTION	BRKR	CCT	PHASE	CCT	BRKR	DESCRIPTION	TYPE	LOAD	NOTE
	518	L	METAL WORK SHOP - LTG/BAT-2	20A1P	1	A	2	15A1P	CEILING EXHAUST FAN EF-7	M	384	
	500	E	BAND SAW - B7	15A1P	3	B	4	15A1P	REC - GEN.	M	360	
	3120	E	PLASMA - B2	50A2P	5	C	6	15A1P	MOTOR DAMPER MD-4	M	90	
	3120	E			7	A	8	15A3P	FUME EXHAUST FAN FEF-1	M	576	
			SPARE	15A1P	9	B	10			M	576	
			SPARE	15A1P	11	C	12			M	576	
	500	E	MIG - B3	50A3P	13	A	14	15A1P	SPARE			
	500	E			15	B	16	15A1P	SPARE			
	500	E			17	C	18	15A1P	SPARE			
	6360	E	TIG - B4	100A2P	19	A	20	15A1P	UNIT HEATER UH-3-METAL SHOP	H	410	
	6360	E			21	B	22	20A1P	HOUSEKEEPING REC. METAL SHOP	R	360	
			SPARE	15A1P	23	C	24	15A1P	REC - COUNTER GEN.	R	540	
	1200	E	GRINDER LARGE - B9	20A2P	25	A	26	15A1P	SPARE			
	1200	E			27	B	28	15A1P	SPARE			
	500	E	GRINDER SMALL - B10	15A1P	29	C	30	15A1P	SPARE			
	180	R	REC - GFI COUNTER	15A1P	31	A	32	15A3P	FUME EXHAUST FAN FEF-2	M	576	
	500	E	DRILL PRESS - B8	15A3P	33	B	34			M	576	
	500	E			35	C	36			M	576	
	500	E			37	A	38	15A1P	SPARE			
	750	H	BB HTR EBH-6	15A1P	39	B	40	15A1P	SPARE			
			SPARE	15A1P	41	C	42	15A1P	SPARE			
			SPARE	15A1P	43	A	44	15A1P	SPARE			
			SPACE	15A1P	45	B	46		SPACE			
			SPACE		47	C	48		SPACE			
			SPACE		49	A	50		SPACE			
			SPACE		51	B	52		SPACE			
			SPACE		53	C	54		SPACE			
			SPACE		55	A	56		SPACE			
			SPACE		57	B	58		SPACE			
			SPACE		59	C	60		SPACE			

	LOAD BREAKDOWN	CONNECTED	DERATED		PANEL DESCRIPTION			
L	LIGHTING:	518	100%	518	VOLTAGE	:	208	V
C	COOLING:	0	80%	0	PHASE	:	3	
H	HEATING:	1160	80%	928	AMPERAGE	:	33	A
M	MECHANICAL:	4290	80%	3432	PANEL AMPACITY	:	225	A
R	GENERAL RECEPTACLES:	1080	60%	648	MAIN BREAKER	:	N/A	A
E	OWNER EQUIPMENT:	25360	25%	6340	# OF TUBS	:	1	
TOTAL:		32408	W	11866				

NOTE DESCRIPTION	
1	DEDICATED CIRCUIT
2	
3	

PANEL: 2F

LOCATION: GENERAL WORKSHOP AND TOOL STOR 110

NOTE	LOAD	TYPE	DESCRIPTION	BRKR	CCT	PHASE	CCT	BRKR	DESCRIPTION	TYPE	LOAD	NOTE
	555	L	LIGHTING METAL SHOP, EF4	20A1P	1	A	2	15A1P	EF-2, EF-3, EF-4, EF-5	M	547	
	474	L	LIGHTING RM 100	20A1P	3	B	4	15A1P	POWER OPERATED DOOR	R	500	
	180	R	RECEPTACLE	15A1P	5	C	6	15A1P	POWER OPERATED DOOR	R	500	
	750	E	LATHE - D5	15A2P	7	A	8	15A1P	TP, RM 103	M	100	
	750	E			9	B	10	15A1P	BB HTR EBH-2 CORR.100	H	750	
			SPARE	15A1P	11	C	12	15A1P	ELECTRICAL TRAP PRIMER	M	20	
			SPARE	15A1P	13	A	14	15A3P	SUMP PUMP P3 RM 110	M	575	
			SPARE	15A1P	15	B	16			M	575	
1	500	E	WORK TABLE RECEPTACLE	15A1P	17	C	18			M	575	
1	500	E	WORK TABLE RECEPTACLE	15A1P	19	A	20	15A3P	SUMP PUMP P4 RM 110	M	575	
1	500	E	WORK TABLE RECEPTACLE	15A1P	21	B	22			M	575	
	500	E	WORK TABLE RECEPTACLE	15A1P	23	C	24			M	575	
	180	E	GFI RECEPTACLE SINK	15A1P	25	A	26	15A1P	WORKBENCH RECEPTACLES	R	500	1
1	500	R	HOUSEKEEPING RECEPTACLES	20A1P	27	B	28	15A1P	WORKBENCH RECEPTACLES	R	500	1
	540	R	HOUSEKEEPING RECEPTACLES	20A1P	29	C	30	15A1P	WORKBENCH RECEPTACLES	R	500	1
	500	R	GFI RECEPTACLE	15A1P	31	A	32	15A1P	SAND BLASTER	E	500	
			SPARE	15A1P	33	B	34	30A2P	ELEC FF HTR FFH-4 WORKSHOP 110	H	2000	
			SPARE	15A1P	35	C	36			H	2000	
			SPARE	15A1P	37	A	38		SPACE			
	1250	E	MILLER-D2	20A2P	39	B	40		SPACE			
	1250	E			41	C	42		SPACE			

	LOAD BREAKDOWN	CONNECTED	DERATED		PANEL DESCRIPTION			
L	LIGHTING:	1029	100%	1029	VOLTAGE	:	208	V
C	COOLING:	0	80%	0	PHASE	:	3	
H	HEATING:	4750	80%	3800	AMPERAGE	:	34	A
M	MECHANICAL:	4117	80%	3294	PANEL AMPACITY	:	225	A
R	GENERAL RECEPTACLES:	4220	60%	2532	MAIN BREAKER	:	N/A	A
E	OWNER EQUIPMENT:	6680	25%	1670	# OF TUBS	:	1	
TOTAL:		20796	W	12325				

NOTE DESCRIPTION	
1	DEDICATED CIRCUIT
2	
3	

PANEL: 2G

LOCATION: VEHICLE MAINTENANCE GARAGE 107

NOTE	LOAD	TYPE	DESCRIPTION	BRKR	CCT	PHASE	CCT	BRKR	DESCRIPTION	TYPE	LOAD	NOTE
	1310	L	VEHICLE MAINTNCE / BAT-3 LTG	20A1P	1	A	2	15A1P	INFR HTRS RTH-1, RTH-2 RM-107	H	1320	
	575	L	LIGHTING - RM 109,210	20A1P	3	B	4	15A1P	CEILING FANS CF-1,2,3 RM107	M	330	
	500	E	GRINDER - A1a	15A1P	5	C	6	15A1P	BB HTR EBH-1	H	1000	
	500	E	TIRE MACHINE - A7	15A1P	7	A	8	15A3P	FUME EXHAUST FAN FEF-3, RM 107	M	576	
	500	E	BRAKE LATHE - A5	15A1P	9	B	10			M	576	
	500	E	TIRE BALANCER - A6	151P	11	C	12			M	576	
	500	E	PARTS WASHER - A2	15A1P	13	A	14	20A3P	HOIST - A9	E	1870	
	500	E	DRILL PRESS - A2	20A2P	15	B	16			E	1870	
	500	E			17	C	18	15A3P	SPARE			
	360	R	REC GFI - COUNTER RM 108	15A1P	19	A	20	15A1P	WORKBENCH RECEPTACLES	R	500	
	180	R	REC GFI - COUNTER RM 108	15A1P	21	B	22	15A1P	WORKBENCH RECEPTACLES	R	500	
	900	R	REC - GEN.	15A1P	23	C	24	15A1P	WORKBENCH RECEPTACLES	R	500	
	500	R	REC GFI - GOLF CART	20A1P	25	A	26	15A1P	WORKBENCH RECEPTACLES	R	500	
	500	R	REC GFI - GOLF CART	20A1P	27	B	28	20A2P	EXHAUST FAN EF-1 RM 107	M	300	
	500	R	REC GFI - GOLF CART	20A1P	29	C	30			M	300	
	540	R	REC GFI - EXTERIOR (SOUTH)	20A1P	31	A	32	50A3P	MIG B3	E	500	
	180	R	REC GFI EXTERIOR (EAST)	15A1P	33	B	34			E	500	
	360	R	REC GENERAL	15A1P	35	C	36			E	500	
	90	M	MOTOR DAMPER MD-3	15A1P	37	A	38	30A3P	OVERHEAD DOOR RM 107	M	2500	
	3120	E	PLASMA B2	50A2P	39	B	40			M	2500	
	3120	E			41	C	42			M	2500	
	6360	E	TIG B4	100A2P	43	A	44	15A1P	SPARE			
	6360	E			45	B	46	15A1P	SPARE			
			SPARE	15A1P	47	C	48	15A1P	SPARE			
			SPARE	15A1P	49	A	50		SPACE			
			SPARE	15A1P	51	B	52		SPACE			
			SPARE	15A1P	53	C	54		SPACE			
			SPACE		55	A	56		SPACE			
			SPACE		57	B	58		SPACE			
	200	R	REC. EMERG. LTG. BAT-3	15A1P	59	C	60		SPACE			

	LOAD BREAKDOWN	CONNECTED	DERATED		PANEL DESCRIPTION			
L	LIGHTING:	1885	100%	1885	VOLTAGE	:	208	V
C	COOLING:	0	80%	0	PHASE	:	3	
H	HEATING:	2320	80%	1856	AMPERAGE	:	82	A
M	MECHANICAL:	10247	80%	8197	PANEL AMPACITY	:	225	A
R	GENERAL RECEPTACLES:	6220	60%	3732	MAIN BREAKER	:	N/A	A
E	OWNER EQUIPMENT:	27700	50%	13850	# OF TUBS	:	1	
TOTAL:		48372	W	29520				

NOTE DESCRIPTION	
1	
2	
3	

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Pacific Region
SERVICES IMMOBILIERS
Région de Pacifique

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Revision/Revision	Description/Description	Date/Date
1	ISSUE FOR TENDER	18-05-02

Client/client
CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
6000 William Head Road, Metchosin, BC
WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par: MB / DS
Drawn by/Dessine par: DS / HB
PWGSC Project Manager/Administrateur de Projets TPSGC: DARYL SINCLAIR
PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC: PREETIPAL PAUL

Drawing title/Titre du dessin
PANEL SCHEDULES

Project No./No. du projet: R.069377.001
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Revision no./La Révision no.: 1

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Friday, May 18, 2018 3:20:21 PM By: de los Santos, Ferdinand

PWGSC - A0 - 1189x841

Mechanical Equipment List (Electrical Discipline)

(List of Electrically Connected Mechanical Equipment)

							INDIVIDUAL MOTOR		PACKAGE/ HEATER/ OTHER	PACKAGE/ GROUPED MOTOR FEEDER		STARTER						DISCONNECT			CONTROLS				ACCESSORIES							FIRE ALARM							SELECTION OF O/C PROTECTION, CONDUCTORS, AND RACEWAYS			
UNIT I.D.	UNIT DESCRIPTION	LOCATION	TYPE OF EQUIPMENT	VOLTS	PH	Hz	HP	FLA	kW	MCA	MOP	GROUPING	TYPE	SIZE (NEMA)	SUPPLIED BY	INSTALLED BY	WIRED BY	SUPPLIED BY	INSTALLED BY	WIRED BY	TYPE(S)	SUPPLIED BY	INSTALLED BY	WIRED BY	BP	HO/HOA/SFOA/FROA	PLR	PLO	PLT	TRB	AUX	INTERFACE REQUIRED	AUTO ON	AUTO OFF	MANUAL RESET	DUCT SMOKE DETECTOR	PWR SOURCE	POWER SOURCE NAME (MCC/MDC/CDP/PANEL)	BREAKER RATING (AMPS)	CONDUCTOR SIZE (COPPER)	CONDUIT SIZE	NOTES
HV-1	Heating and Ventilating Unit	Roof	Package Unit (Single Connection)	600	3	60		6.4	N/A	8					M			E	E	E	T	M	M	M		HOA						Recirculating Air Smoke Control		X	X		N	6CDP-5	30A/3P	3#10+BOND	27mm	
HV-2	Heating and Ventilating Unit	Roof	Package Unit (Single Connection)	600	3	60		6.4	N/A	8					M			E	E	E	T	M	M	M		HOA						Recirculating Air Smoke Control		X	X	X	N	6CDP-6	30A/3P	3#10+BOND	27mm	
RTU-1	Roof Top AC unit	Roof	Package Unit (Single Connection)	600	3	60		12.8	N/A	16					M			E	E	E	T	M	M	M		HOA						Recirculating Air Smoke Control		X	X		N	6CDP-7	50A/3P	3#8+BOND	27mm	
RTU-2	Roof Top AC unit	Roof	Package Unit (Single Connection)	600	3	60		6.4	N/A	8					M			E	E	E	T	M	M	M		HOA						Recirculating Air Smoke Control		X	X		N	6CDP-8	30A/3P	3#10+BOND	27mm	
MUA-1	Roof Top Make-up air Unit	Roof	Package Unit (Single Connection)	600	3	60		4	N/A	5					M			E	E	E		M	M	M		HOA						Recirculating Air Smoke Control		X	X		N	6CDP-4	15A/3P	3#12+BOND	21mm	
UH-1	Gas Fired Unit Heater	Room 114	Electric Heater	120	1	60	0.08	3.4							E			E	E	E	T	M	M	M		HOA											N	2D-22	15A/1P	2#12+BOND	21mm	
UH-2	Gas Fired Unit Heater	Room 114	Electric Heater	120	1	60	0.08	3.4							E			E	E	E	T	M	M	M		HOA											N	2D-20	15A/1P	2#12+BOND	21mm	
UH-3	Gas Fired Unit Heater	Room 111	Electric Heater	120	1	60	0.08	3.4							E			E	E	E	T	M	M	M		HOA											N	2E-20	15A/1P	2#12+BOND	21mm	
UH-4	Gas Fired Unit Heater	Room 211	Electric Heater	120	1	60	0.08	3.4							E			E	E	E	T	M	M	M		HOA											N	2C-21	15A/1P	2#12+BOND	21mm	
UH-5	Gas Fired Unit Heater	Room 210	Electric Heater	120	1	60	0.08	3.4							E			E	E	E	T	M	M	M		HOA											N	2C-11	15A/1P	2#12+BOND	21mm	
UH-6	Gas Fired Unit Heater	Room 211	Electric Heater	120	1	60	0.08	3.4							E			E	E	E	T	M	M	M		HOA											N	2C-21	15A/1P	2#12+BOND	21mm	
RTH-1	Gas Fired Radiant Heater	Room 107	Electric Heater	120	1	60		5.5							E			E	E	E	T	M	M	M		HOA											N	2G-2	15A/1P	2#12+BOND	21mm	
RTH-2	Gas Fired Radiant Heater	Room 107	Electric Heater	120	1	60		5.5							E			E	E	E	T	M	M	M		HOA											N	2G-2	15A/1P	2#12+BOND	21mm	
RTH-3	Gas Fired Radiant Heater	Room 112	Electric Heater	120	1	60		5.5							E			E	E	E	T	M	M	M		HOA											N	2D-26	15A/1P	2#12+BOND	21mm	
CF-1	Ceiling Fan	Room 107	Individual Motor	120	1	60			0.11						M			E	E	E	VS	E	E	E													N	2G-4	15A/1P	2#12+BOND	21mm	
CF-2	Ceiling Fan	Room 107	Individual Motor	120	1	60			0.11						M			E	E	E	VS	E	E	E													N	2G-4	15A/1P	2#12+BOND	21mm	
CF-3	Ceiling Fan	Room 108	Individual Motor	120	1	60			0.11						M			E	E	E	VS	E	E	E													N	2G-4	15A/1P	2#12+BOND	21mm	
CF-4	Ceiling Fan	Room 112	Individual Motor	120	1	60			0.11						M			E	E	E	VS	E	E	E													N	2C-23	15A/1P	2#12+BOND	21mm	
EF-1	Wall Exhaust Fan	Room 107	Individual Motor	208	1	60		0.33										E	E	E												Recirculating Air Smoke Control		X	X		N	2G-28,30	15A/2P	2#12+BOND	21mm	
EF-2	Ceiling cabinet Exhaust Fan	Room 103	Individual Motor	120	1	60		1.14							M			E	E	E	VC	E	E	E													N	2F-2	15A/1P	2#12+BOND	21mm	
EF-3	Ceiling cabinet Exhaust Fan	Washroom 105	Individual Motor	120	1	60		1.14							M			E	E	E	VC	E	E	E													N	2F-2	15A/1P	2#12+BOND	21mm	
EF-4	Ceiling cabinet Exhaust Fan	Washroom 104	Individual Motor	120	1	60		1.14							M			E	E	E	VC	E	E	E													N	2F-2	15A/1P	2#12+BOND	21mm	
EF-5	Ceiling cabinet Exhaust Fan	Washroom 106	Individual Motor	120	1	60		1.14							M			E	E	E	VC	E	E	E													N	2F-2	15A/1P	2#12+BOND	21mm	
EF-6	Ceiling cabinet Exhaust Fan	Room 200	Individual Motor	120	1	60		0.5							M			E	E	E	T	M	M	M													N	2C-19	15A/1P	2#12+BOND	21mm	
EF-7	Ceiling cabinet Exhaust Fan	Room 111	Individual Motor	120	1	60		6.6							E			E	E	E	T	E	E	E		HOA						Recirculating Air Smoke Control		X	X		N	2.00E-02	15A/1P	2#12+BOND	21mm	
EF-8	Ceiling cabinet Exhaust Fan	Roof	Individual Motor	120	1	60	0.05	0.31							E			E	E	E	T	M	E	E		HOA											N	2C-25	15A/1P	2#12+BOND	21mm	
EF-9	Ceiling cabinet Exhaust Fan	Room 200	Individual Motor	120	1	60		0.62							M			E	E	E	WS	E	E	E		HOA											N	2C-7	15A/1P	2#12+BOND	21mm	
EF-10	Ceiling cabinet Exhaust Fan	Room 204	Individual Motor	120	1	60		0.62							E			E	E	E	VC	E	E	E													N	2C-7	15A/1P	2#12+BOND	21mm	
EF-11	Ceiling cabinet Exhaust Fan	Room 212	Individual Motor	120	1	60		6.6							E			E	E	E	T	M	M	M													N	2CA-17	15A/1P	2#12+BOND	21mm	
EF-12	Ceiling cabinet Exhaust Fan	Room 211	Individual Motor	120	1	60		6.6							E			E	E	E		E	E	E		HOA						Recirculating Air Smoke Control		X	X		N	2CA-17	15A/1P	2#12+BOND	21mm	
EF-13	Ceiling cabinet Exhaust Fan	Room 207	Individual Motor	120	1	60		0.62							E			E	E	E	VC	E	E	E													N	2C-7	15A/1P	2#12+BOND	21mm	
EF-14	Ceiling cabinet Exhaust Fan	Room 117	Individual Motor	120	1	60			0.023						E			E	E	E	T	M	E	E													N	2B-6	15A/1P	2#12+BOND	21mm	
EF-15	Ceiling cabinet Exhaust Fan	Room 116	Individual Motor	120	1	60			0.224						E			E	E	E	T	M	E	E													N	2B-10	15A/1P	2#12+BOND	21mm	
FEF-1	Fume Exhaust Fan	Room 111	Individual Motor	208	3	60	1	4.8					MAG	0	E	E	E	E	E	E	WS	E	E	E		HOA	X	X	X	X	2	Recirculating Air Smoke Control		X	X		N	2E-8,10,12	15A/3P	3#12+BOND	21mm	
FEF-2	Fume Exhaust Fan	Room 111	Individual Motor	208	3	60	1	4.8					MAG	0	E	E	E	E	E	E	WS	E	E	E		HOA	X	X	X	X	2	Recirculating Air Smoke Control		X	X		N	2E-32,34,36	15A/3P	3#12+BOND	21mm	
FEF-3	Fume Exhaust Fan	Room 107	Individual Motor	208	3	60	1	4.8					MAG	0	E	E	E	E	E	E	WS	E	E	E		HOA	X	X	X	X	2						N	2G-8,10,12	15A/3P	3#12+BOND	21mm	
MD-1	O/A damper	212	Individual Motor	120	1	60	frac	0.746										E	E	E																	N	2C-31	15A/1P	2#12+BOND	21mm	
MD-2	O/A damper for Carpentry	114	Individual Motor	120	1	60	frac	0.746										E	E	E																	N	2D-19	15A/1P	2#12+BOND	21mm	
MD-3	O/A damper for 107	107	Individual Motor	120	1	60	frac	0.746										E	E	E																	N	2G-37	15A/1P	2#12+BOND	21mm	
MD-4	O/A damper for 107	111	Individual Motor	120	1	60	frac	0.746										E	E	E																	N	2.00E-37	15A/1P	2#12+BOND	21mm	
MD-5	O/A damper for 116	116	Individual Motor	120	1	60	frac	0.746										E	E	E																	N	2B-8	15A/1P	2#12+BOND	21mm	
MD-6	O/A damper for 116	116	Individual Motor	120	1	60	frac	0.746										E	E	E																	N	2B-12	15A/1P	2#12+BOND	21mm	
DC-1	Dust Collector	Outside Carpentry	Grouped Motors (Single Feeder)	600	3	60	10	11										E	E	E						HOA						Recirculating Air Smoke Control		X	X		N	6CDP-7	30A/3P	3#10+BOND	27mm	
DC-1 SH	Dust Collector shaker motor	Outside Concan 121	Grouped Motors (Single Feeder)	600	3	60	0.75	1.3										E	E	E						HOA						Recirculating Air Smoke Control		X	X		N	6CDP-10	15A/3P	3#12+BOND	21mm	
DHWH-1	Gas Hot Water Tank	Mechanical Room 115	Individual Motor	120	1	60												E	E	E																	N	2B-19	20A/1P	2#12+BOND	21mm	
DHWT-1	Dom Hot Water storage Tank	Mechanical Room 115	Individual Motor																																							ELECTRICAL CONTRACTOR TO DISCONNECT WIRING TO HEATING ELEMENT. TANK TO BE USED AS STORAGE ONLY. REWIRE AQUASTAT AND INTERLOCK WITH RECIRC. PUMP DWP-1.
DWP-1	DHW recirc pump	Mechanical Room 115	Individual Motor	120	1	60	0.1667	4.4										E	E	E		M	M	M													N	2B-46	15A/1P	2#12+BOND	21mm	
DWP-2	HW recirc pump	Mechanical Room 115	Individual Motor	120	1	60	0.1667	4.4										E	E	E		M	M	M													N	2B-48	15A/1P	2#12+BOND	21mm	
COMP-1	Air Compressor	Room 212	Individual Motor	600	3	60	10	11							M			E	E	E		E	E	E													N	6CDPA-5	30A/3P	3#10+BOND	27mm	
P-3	Sump pump	Room 110	Individual Motor	208	3	60	0.5	2.5										M	M	M	FAFS																N	2F-14,16,18	15A/3P	3#12+BOND	21mm	
P-4	Sump pump	Room 110	Individual Motor	208	3	60	0.5	2.5										M	M	M	FAFS																N	2F-20,22,24	15A/3P	3#12+BOND	21mm	
TP	Elec Trap primer	Room 103	Other	120	1	60			0.1												TC																N	2F-12	15A/1P	2#12+BOND	21mm	
TP	Elec Trap primer	Room 115	Other	120	1	60			0.1												TC																N	2B-16	15A/1P	2#12+BOND	21mm	
TP	Elec Trap primer	Room 207	Other	120	1	60			0.1												TC																N	2C-29	15A/1P	2#12+BOND	21mm	
TP	Elec Trap primer	Room 212	Other	120	1	60			0.1												TC																N	2C-29	15A/1P	2#12+BOND	21mm	
FFH-1	Electric Heater	Stair A1	Electric Heater	208	1	60			4						M			E	E	E	T	M	E	E													N	2B-38,40	30A/2P	2#10+BOND	21mm	
FFH-2	Electric Heater	Vestibule 100	Electric Heater	208	1	60			4						M			E	E	E	T	M	E	E													N	2B-42,44	30A/2P	2#10+BOND	21mm	
FFH-3	Electric Heater	Stair D1	Electric Heater	208	1	60			4						M			E	E	E	T	M	E	E													N	2B-45,47	30A/2P	2#10+BOND	21mm	
FFH-4	Electric Heater	Room 110	Electric Heater	208	1	60			4						M			E	E	E	T	M	E	E													N	2F34,36	30A/2P	2#10+BOND	21mm	
FFH-6	Electric Heater	Room 115	Electric Heater	120	1	60			1.5						M			E	E	E	T	M	E	E													N	2B-4	15A/1P	2#12+BOND	21mm	
FFH-7	Electric Heater	Stair A3	Electric Heater	208	1	60			4						M			E	E	E	T	M	E	E													N	2B-27,29	30A/2P	2#10+BOND	21mm	
EBH-1	Electric Baseboard Heater	Room 109	Electric Heater	120	1	60			1									E	E	E	T	M	E	E													N	2G-6	15A/1P	2#12+BOND	21mm	
EBH-2	Electric Baseboard Heater	Room 100	Electric Heater	120	1	60			0.75									E	E	E	T	M	E	E													N	2F-10	15A/1P	2#12+BOND	21mm	
EBH-3	Electric Baseboard Heater	Room 116	Electric Heater	120	1	60			0.75									E	E	E	T	M	E	E													N	2B-14	15A/1P	2#12+BOND	21mm	
EBH-4	Electric Baseboard Heater	Room 212	Electric Heater	120	1	60			0.75									E	E	E	T	M	E	E													N	2CA-11	15A/1P	2#12+BOND	21mm	
EBH-5	Electric Baseboard Heater	Room 207	Electric Heater	120	1	60			0.75									E	E	E	T	M	E	E													N	2C-9	15A/1P	2#12+BOND	21mm	
EBH-6	Electric Baseboard Heater	Room 117	Electric Heater	120	1	60			0.75									E	E	E	T	M	E	E													N	2E-39	15A/1P	2#12+BOND	21mm	
EDH-1	Duct Heater	Room 205	Electric Heater	208	3	60			8									E	E	E	T	M	M	M													N	2C44,46,48	30A/3P	3#10+BOND	27mm	
EDH-2	Duct Heater	Room 205	Electric Heater	120	1	60			0.75									E	E	E	T	M	M	M													N	2C43	15A/1P	2#12+BOND	21mm	
EDH-3	Duct Heater	Room 205	Electric Heater	120	1	60			0.75									E	E	E	T	M	M	M													N	2C45	15A/1P	2#12+BOND	21mm	
EDH-4	Duct Heater	Room 205	Electric Heater	120	1	60			1.5									E	E	E	T	M	M	M													N	2C47	20A/1P	2#12+BOND	21mm	
EDH-5	Duct Heater	Room 205	Electric Heater	120	1	60			0.75									E	E	E	T	M	M	M													N	2C49	15A/1P	2#12+BOND	21mm	
DDC Panel	Control Panel	Room 115	Cord-connected Equipment	120	1	60																															N	2B-18	15A/1P	2#12+BOND	21mm	
Fire Protection Items																																										
main shut off	Supervised valve tamper	Mechanical Room 115																			FA																					
BFP valve 1	Supervised valve tamper	Mechanical Room 115																			FA																					
BFP valve 2	Supervised valve tamper	Mechanical Room 115																			FA																					
Main Floor	Main Floor Zone Flow switch	Mechanical Room 115																			FA																					
Main Floor	Supervised valve tamper	Mechanical Room 115																			FA																					
Dry valve	Supervised valve tamper	Mechanical Room 115																			FA																					
Dry flow	Dry Zone Flow switch	Mechanical Room 115																			FA																					
Dry Pressure	Air pressure switch alrm	Mechanical Room 115																			FA																					
Upper Floor	Supervised valve tamper	Mechanical Room 115																			FA																					
Upper Floor	Upper Flr Zone Flow switch	Mechanical Room 115																			FA																					
COMP-2	Dry system Air comp.	Mechanical Room 115		120	1	60	0.3333											E			FAPS																					

M = Mechanical (Divisions 21/22/23/25)
E = Electrical (Division 26)
FLA = Full load current (in amperes)
MCA = Minimum circuit ampacity
MOP = Maximum overcurrent protection (applicable to circuit breakers only unless otherwise noted)
BAS = Building Automation System
CACF = Central Alarm & Control Facility (Fire Alarm)
CDP = Central Distribution Panel
FVNR = Full Voltage, Non-reversing
O/C = Overcurrent
O/L = Overload

Starter Grouping:
PCS1 = Packaged Control System (Integral to Load[s])
PCS2 = Packaged Control System (Separate from Loads)
MCC = Motor Control Centre
MDC = Motor Distribution Centre ('four-plex' or similar small grouped motor control)
LOOSE = Individually-mounted Motor Starter/Relay/VSD

CP = System Control Panel (e.g irrigation controller)
ES = End Switch
FA = Fire Alarm (Control Module)
FAFS = Fire Alarm (Wet Sprinkler) Flow Switch
FALS = Fire Alarm (Sprinkler Reservoir) Level Switch
FAPS = Fire Alarm (Dry Sprinkler) Pressure Switch
FATS = Fire Alarm (Sprinkler Valve) Tamper Switch
GS = Gas Sensor
H = Humidistat
I = Interlock
LS = Level Switch
TC = Time Clock
T = Thermostat
VS = Variable Speed Switch
WS = Wall Switch
VC = Vacancy Switch

MRR = Motor Rated Relay (no O/L)
MAG = Magnetic (FVNR)
MAG2 = Magnetic (two-speed)
FVR = Magnetic, Full Voltage Reversing
RVYD = Reduced Voltage (wye-delta)
RVAT = Reduced Voltage (autotransformer)
RVPW = Reduced Voltage (part winding)
RVSS = Reduced Voltage (soft starter)
VSD = Variable Speed Drive

Starter Accessories:
BP = VSD Bypass c/w integral starter
HO = On-off switch
HOA = Hand-off-auto switch
SFOA = Slow-fast-off-auto switch
FROA = Forward-reverse-off-auto switch
PLR = Run pilot light
PLO = Off pilot light
PLT = Trip pilot light
TRB = Trip reset pushbutton
AUX = Auxiliary 'run' contacts (# indicates number of form C contacts)

FP = Fire Pump Source
V = Vital Source
DV = Delayed Vital Source
C = Conditional Source

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MODEL NO.	LAMPS	VOLTS	MOUNTING	REMARKS
A	559x387x121 mm Deep LED HIGH BAY FIXTURE LITHONIA, IBH SERIES OR ACCEPTABLE PRODUCT	IBH-12000L-MVOLT-GZ10-40K	131W 12,000 LUM 4000K	120-277V	SUSPENDED, AIRCRAFT CABLE @610mm BELOW DECK ROOF	CSA/cUL APPROVED, DIMS TO 1% (0-10 VOLT DIMMING) DRIVER, LIGHTWEIGHT ALUMINIUM HOUSING, SEMI-DIFFUSE LENS
B	121.9x25.4x8.26 LED LOW BAY LUMINAIRE LITHONIA, MSL SERIES OR ACCEPTABLE PRODUCT	MSL-4000L-SBL-120-40K-SQ4	37W 4000 LUM 4000K	120	SUSPENDED, AIRCRAFT CABLE @610mm BELOW CEILING	CSA/cUL APPROVED, (0-10 VOLT DIMMING) DRIVERS, TRAIGHT BLADE LOUVER,4" SWIVEL-STEAM HANGER
C	2' X 4' RECESSED LED LUMINAIRE LITHONIA, FS SERIES OR ACCEPTABLE PRODUCT	2FSL4-30L-MVOLT-LP840	31W 3000 LUM 4000K	120	RECESSED, T-BAR	CSA/cUL APPROVED, RUGGED,ONE-PIECE COLD-ROLLED STEEL COATED POLYSTER,SATIN WHITE LENS.
D	1' X 4' RECESSED LED LUMINAIRE LITHONIA, T-SERIES OR ACCEPTABLE PRODUCT	TL4-43L-FW-A12-D46-LP840	46W 3000 LUM 4000K	120	RECESSED, T-BAR	CSA/cUL APPROVED, CENTER FILL LED. FLUSH ALUMINUM WHITE WITH #12 ACRYLIC PATTERN, 82 CRI
E	254x610mm LOW-PROFILE CURVED BASKET LED WRAPAROUND LUMINAIRE LITHONIA OR ACCEPTABLE PRODUCT	LB-2-LP840	23W 2267LUM 4000K	120	SURFACE, DRYWALL	CSA/cUL APPROVED, 100% PRISMATIC ACRYLIC DIFFUSER
F	121x93x1189mm LED WALL BRACKET LUMINAIRE LITHONIA, WL4 LED SERIES OR ACCEPTABLE PRODUCT	WL4-30L-LP840	28.2W 3000LUM 4000K	120	SURFACE, WALL	CSA/cUL APPROVED, CODE-GAUGE ROLL FORMED HOUSING, CRESCENT-SHAPE LINEAR FACETED REFRECTOR SYSTEM
G	6" OPEN WALLWASH LED LUMINAIRE LITHONIA, LDN6 SERIES OR ACCEPTABLE PRODUCT	LDN6 35/10 LO6AR 120 TRW-EZ1	18W LED 1000 LUM 3500K	120	RECESSED, DRYWALL	CSA/cUL APPROVED, SEMISPECULAR FINISH WHITE, PAINTED FLANGE, LED DRIVER DIMS TO 1%
H	6" RECESSED LED DOWNLIGHT KENALL, HADL SERIES OR ACCEPTABLE PRODUCT	HADL6VL2-13L30K-DV-DCFW-G	13W 1000LUM 3000K	120	RECESSED, SOFFIT	CSA/cUL APPROVED, SEAM-WELDED HOUSING, DIE-CAST ALUMINUM FLAT WHITE TRIM, SPUN ALUMINUM WITH HIGH-EFFICIENCY DIFFUSE WHITE COATING REFLECTOR , .125" POLICARBONATE LENS
J	EXTERIOR ARCHITECTURAL LED WALL SCONCE, LITHONIA MRW LED SERIES OR ACCEPTABLE PRODUCT	MRW-LED-2-10A700/30K-SR3-VG-DDBXD	47W LED 4000 LUM 3000K	120	SURFACE, WALL @4000mm AFF, UNLESS OTHERWISE NOTED ON DWG.	CSA/cUL APPROVED, WITH TWO ENGINES (20LEDs), TYPE III DISTRIBUTION, VANDAL GUARD, DARK BRONZE FINISH
K	ELEVATOR PIT FIXTURE, LITHONIA LED VAPORTIGHT OR ACCEPTABLE PRODUCT	OLVTWM-MVOLT	15W LED 600 LUM 4000K	120	SURFACE, WALL	CSA/cUL APPROVED, CAST-ALUMINUM HOUSING WITH CORROSION-RESISTANT PAINT, SEAL GASKET, FROSTED GLASS DIFFUSER
X	EXIT SIGN PICTOGRAM GREEN 'RUNNING MAN' LUMACELL, LA SERIES OR ACCEPTABLE PRODUCT	LA-1-A-U LA-2-A-U [SINGLE OR DOUBLE FACE AS PER DWG]	2.5W LED	120	CEILING OR WALL MOUNTED	CSA/cUL APPROVED, ONE-PIECE ALUMINUM HOUSING, UNIVERSAL MOUNTING.

EMERGENCY LIGHTING BATTERY UNIT SCHEDULE

UNIT DESIGNATION	LOCATION	NO OF HEADS MR16 LED (6W / head)	NO OF EXIT SIGNS (2W LED/ exit)	TOTAL LOAD (W)	VOLTAGE	MAX. CAPACITY (W)	BATTERY UNIT CAT#	NOTES
BAT-1	ELECTRICAL ROOM 116	6	0	36	12V	144	RG12S-144-2-LD14	1
BAT-2	WELDING WORK BAY 112	34	7	218	12V	250	RG12S-250-2-LD14	2
BAT-3	GARAGE WORKBAY 108	16	3	102	12V	144	RG12S-144-2-LD14	2
BAT-4	PLATFORM 211	28	6	180	12V	200	RG12S-200-2-LD14	2
BAT-5	PLATFORM 210	24	3	150	12V	200	RG12S-200-2-LD14	2
BATTERY UNIT CAT#	LUMACELL RGS SERIES							
REMOTE HEAD CAT#	M-QM-2-LD14							

NOTES:
1. BATTERY UNIT TO BE RATED FOR 60 MINUTE OPERATION ON LOSS OF 120V POWER.
2. BATTERY UNIT TO BE RATED FOR 30 MINUTE OPERATION ON LOSS OF 120V POWER.

Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
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SERVICES IMMOBILIERS
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MAY 0 2 2018

Revision/Revision	Description/Description	Date/Date
1	ISSUE FOR TENDER	18-05-02

Client/client
CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
6000 William Head Road, Metchosin, BC
WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
MB / DS

Drawn by/Dessine par
DS / HB

PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAIR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC
PREETIPAL PAUL

Drawing title/Titre du dessin
MECHANICAL EQUIPMENT AND LUMINAIRE SCHEDULES

Project No./No. du projet: R.069377.001
Sheet/ Feuille: E505
Revision no./ La Révision no.: 1

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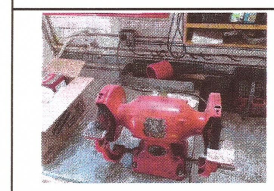
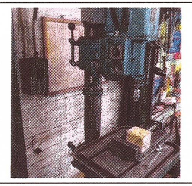
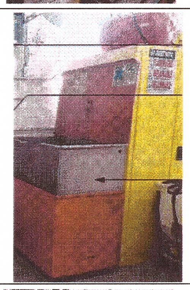
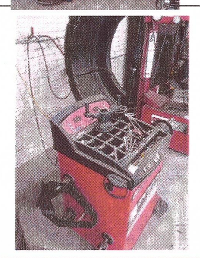
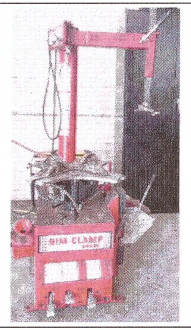
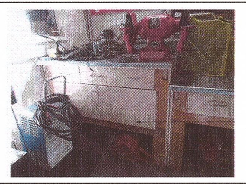
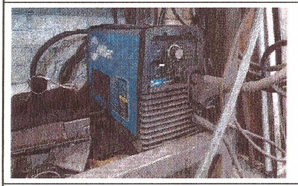
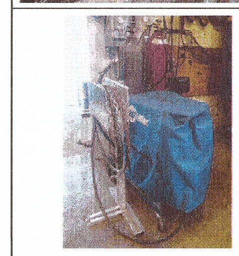
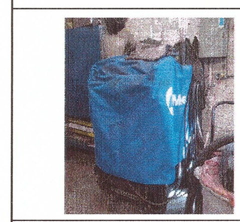
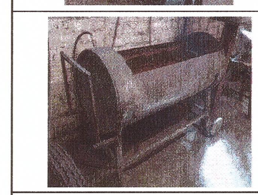
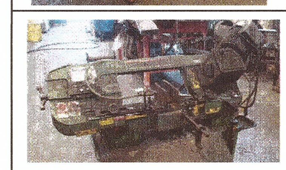
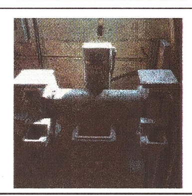
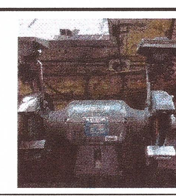
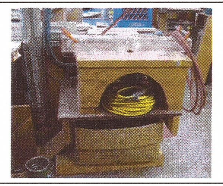
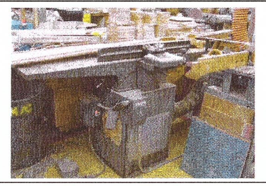
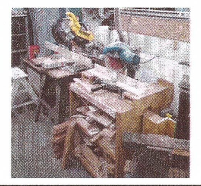
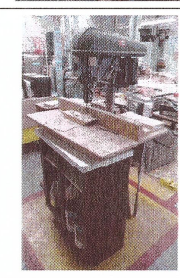
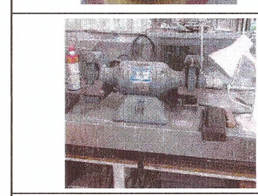
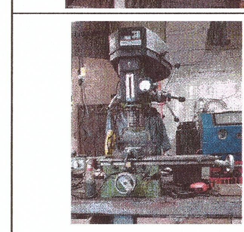
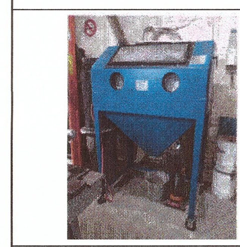
Friday, May 18, 2018 3:21:02 PM By: de los Santos, Ferdinand

SHOP EQUIPMENT SCHEDULE

IMAGE	UNIT ID	UNIT DESCRIPTION	UNIT LOCATION	EQUIPMENT DATA kW	AMPS	HP	VOLT	PH	BREAKER AMPS	FEEDER Copper	CONNECTION TYPE	CIRCUIT NUMBER	STARTER S	I	C	TYPE	DISCONNECT S	I	C	TYPE	CONTROL S	I	C	TYPE	E.PWR	NOTES
	A1a	GRINDER	VEHICLE MAINTENANCE GARAGE 107	0.50			120	1	15A1P	2#12+BOND	NEMA 5-15R	2G-5	-	-	-	-	-	-	-	CORD	-	-	-	-	NO	1,2 EXISTING CORD CONNECTION
	A2	DRILL PRESS	VEHICLE MAINTENANCE GARAGE 107	0.92	4.40	0.5	208	1	20A2P	2#12+BOND	DIRECT	2G-15,17	-	-	-	-	-	-	-	-	-	-	-	-		1,2 JUNCTION BOX CONNECTION
	A2	PARTS WASHER	VEHICLE MAINTENANCE GARAGE 107	0.50	-	-	120	1	15A1P	2#12+BOND	NEMA 5-15R	2G-13	-	-	-	-	-	-	-	CORD	-	-	-	-	NO	1,2 EXISTING CORD CONNECTION
	A5	BRAKE LATHE	VEHICLE MAINTENANCE GARAGE 107	0.50	-	-	120	1	15A1P	2#12+BOND	NEMA 5-15R	2G-9	-	-	-	-	-	-	-	CORD	-	-	-	-	NO	1,2 EXISTING CORD CONNECTION
	A6	TIRE BALANCER	VEHICLE MAINTENANCE GARAGE 107	0.50	-	-	120	1	15A1P	2#12+BOND	NEMA 5-15R	2G-11	-	-	-	-	-	-	-	CORD	-	-	-	-	NO	1,2 EXISTING CORD CONNECTION
	A7	TIRE MACHINE	VEHICLE MAINTENANCE GARAGE 107	1.50	-	-	120	1	15A1P	2#12+BOND	NEMA 5-15R	2G-7	-	-	-	-	-	-	-	CORD	-	-	-	-	NO	1,2 EXISTING CORD CONNECTION
	A9	HOIST	VEHICLE MAINTENANCE GARAGE 107	3.74	18.00	2.0	208	1	20A2P	2#12+BOND	NEMA L6-20R	2G-14,16	-	-	-	-	-	-	-	CORD	-	-	-	-	NO	1,2 EXISTING CORD CONNECTION
	B1	WORKBENCH	METAL WORK AND WELDING SHOP 111	1.10	-	-	120	1	15A1P	2#12+BOND	DIRECT	SEE E201	-	-	-	-	-	-	-	-	-	-	-	-	NO	1,2 EXISTING LIGHTING TO BE RECONNECTED
	B2	PLASMA	METAL WORK AND WELDING SHOP 111 & GARAGE WORK BAY 108	-	-	-	208	1	50A2P	2#8+BOND	NEMA 6-50R (QTY. 2)	2E-5,7 2G-39,41	-	-	-	-	E	E	E	CORD	-	-	-	-	NO	1,2 MOBILE EQUIP. TO BE USED IN TWO (2) LOCATIONS
	B3	MIG WELDER	METAL WORK AND WELDING SHOP 111 & GARAGE WORK BAY 108	10.00	-	-	208	3	50A3P	3#8+BOND	NEMA 15-50R (QTY. 2)	2E-13,15,17 2G-32,34,36	-	-	-	-	-	-	-	CORD	-	-	-	-	NO	1,2,3 EXISTING CORD CONNECTED TO 100A/60AF DS. ADD A NEW NEMA 15-50P TO CORD. MOBILE EQUIP. TO BE USED IN TWO (2) LOCATIONS.
	B4	TIG	METAL WORK AND WELDING SHOP 111 & GARAGE WORK BAY 108	12.00	-	-	208	1	100A2P	3#3+BOND	CROUSE HINDS ARKTITE AR SERIES STYLE 1 (QTY. 2)	2E-19,21 2G-43,45	-	-	-	-	-	E	E	CORD	-	-	-	-	NO	1,2, 4 EXISTING RELOCATED DISCONNECT. CONFIRM EQUIPMENT FINAL CONNECTIONS PRIOR TO ROUGH-IN. MOBILE EQUIP. TO BE USED IN TWO (2) LOCATIONS.
	B5	WATER BATH	METAL WORK AND WELDING SHOP 111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NO	NO ELECTRCIAL CONNECTIONS
	B6	WELDING TABLE	METAL WORK AND WELDING SHOP 111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NO	NO ELECTRCIAL CONNECTIONS
	B7	BAND SAW	METAL WORK AND WELDING SHOP 111	0.50	-	-	120	1	15A1P	2#12+BOND	NEMA 5-15R	2E-3	-	-	-	-	-	-	-	CORD	-	-	-	-	NO	1,2 EXISTING CORD CONNECTION
	B8	DRILL PRESS	METAL WORK AND WELDING SHOP 111	1.50	7.59	1.1	208	3	15A3P	3#12+BOND	DIRECT	2E-33,35,37	-	-	-	-	-	E	E	SW						1,2 EXISTING RELOCATED DISCONNECT
	B9	GRINDER LARGE	METAL WORK AND WELDING SHOP 111	2.40	-	-	208	1	20A2P	2#12+BOND	DIRECT	2E-25,27	-	-	-	-	-	E	E	SW	-	-	-	-	NO	1,2 EXISTING S/S SWITCH LOCATED ON EQUIP.

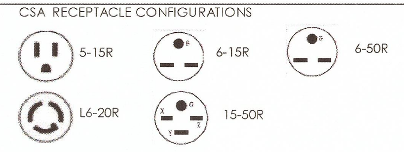
SHOP EQUIPMENT SCHEDULE

IMAGE	UNIT ID	UNIT DESCRIPTION	UNIT LOCATION	EQUIPMENT DATA kW	AMPS	HP	VOLT	PH	BREAKER AMPS	FEEDER Copper	CONNECTION TYPE	CIRCUIT NUMBER	STARTER S	I	C	TYPE	DISCONNECT S	I	C	TYPE	CONTROL S	I	C	TYPE	E.PWR	NOTES
	B10	GRINDER SMALL	METAL WORK AND WELDING SHOP 111	-	-	-	120	1	15A1P	2#12+BOND	NEMA 5-15R	2E-29	-	-	-	-	-	-	-	CORD	-	-	-	-	NO	1,2 EXISTING CORD CONNECTION
	B11	CABINET	METAL WORK AND WELDING SHOP 111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NO	NO ELECTRCIAL CONNECTIONS
	C1	TABLE SAW	CARPENTER SHOP 114	5.00	-	-	208	1	40A2P	2#10+BOND	DIRECT	2DA-1,3	-	-	-	-	-	E	E	SW	-	-	-	-	NO	1,2 EXISTING S/S SWITCH LOCATED ON EQUIP.
	C2	ROUTER	CARPENTER SHOP 114	1.20	-	-	120	1	15A1P	2#12+BOND	DIRECT	2DA-5	-	-	-	-	-	E	E	SW	-	-	-	-	NO	1,2 EXISTING SWITCH LOCATED ON EQUIP.
	C3	PLANER	CARPENTER SHOP 114	5.00	-	-	208	1	40A2P	2#10+BOND	DIRECT	2DA-7,9	-	-	-	-	-	E	E	SW	-	-	-	-	NO	1,2 EXISTING ENCLOSURE LOCATED ON EQUIP.
	C4	JOINER	CARPENTER SHOP 114	3.75	-	-	208	1	30A2P	2#10+BOND	DIRECT	2DA-11,13	-	-	-	-	-	E	E	SW	-	-	-	-	NO	1,2 EXISTING SWITCH LOCATED ON EQUIP.
	C6	BAND SAW	CARPENTER SHOP 114	2.40	-	-	208	1	20A2P	2#12+BOND	DIRECT	2DA-2,4	-	-	-	-	-	E	E	SW	-	-	-	-	NO	1,2 EXISTING JUNCTION BOX CONNECTION
	C7	SANDER	CARPENTER SHOP 114	2.40	-	-	208	1	20A2P	2#12+BOND	DIRECT	2DA-6,8	-	-	-	-	-	E	E	SW	-	-	-	-	NO	1,2 EXISTING JUNCTION BOX CONNECTION
	C8	CHOP SAW	CARPENTER SHOP 114	1.00	-	-	120	1	15A1P	2#12+BOND	NEMA 5-15R	2DA-10	-	-	-	-	-	-	-	CORD	-	-	-	-	NO	1,2 EXISTING CORD CONNECTION
	C9	DRILL PRESS	CARPENTER SHOP 114	2.40	-	0.5	208	1	20A2P	2#12+BOND	DIRECT	2DA-12,14	-	-	-	-	-	E	E	STARTER	-	-	-	-	NO	1,2 EXISTING STARTER CONNECTION
	C10	GRINDER	CARPENTER SHOP 114	1.00	-	-	120	1	15A1P	2#12+BOND	NEMA 5-15R	2DA-16	-	-	-	-	-	-	-	CORD	-	-	-	-	NO	1,2 EXISTING CORD CONNECTION
	D2	MILLER	GENERAL WORKSHOP TOOL STORE 110	?			208	1	20A2P	2#12+BOND	NEMA 6-20R	2F-39,41					E	E	E							1,2
	D3	FINGER BRAKE	GENERAL WORKSHOP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	NO	NO ELECTRCIAL
	D4	SAND BLASTER	GENERAL WORKSHOP TOOL STORE 110	-	-	-	120	1	15A1P	2#12+BOND	NEMA 5-15R	2F-32	-	-	-	-	-	-	-	-	-	-	-	-	NO	1,2 EXISTING CORD CONNECTION
	D5	LATHE	GENERAL WORKSHOP TOOL STORE 110	1.50	-	-	208	1	15A2P	2#12+BOND	NEMA 6-15R	2F-7,9	-	-	-	-	-	-	-	CORD	-	-	-	-	NO	1,2 EXISTING CORD CONNECTION, NEMA 6-15R

NOTES:
1. EXISTING EQUIPMENT TO BE DISCONNECTED AT EXISTING BUILDING AND MADE READY FOR TRANSFER TO NEW BUILDING 107. ALL AUXILARY DEVICES (DISCONNECT SWITCHES, SWITCHES, STARTERS, ETC.) TO BE REUSED AT NEW LOCATION WHERE POSSIBLE.
2. EXISTING EQUIPMENT TO BE RELOCATED. CONTRACTOR TO VERIFY EXISTING INSTALLATION, EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH-IN.
3. DISCONNECT WELDER FROM EXISTING 100A/60AF DISCONNECT SWITCH. DEPARTMENTAL REPRESENTATIVE TO PROVIDE INSTRUCTIONS FOR REMOVAL OR ABANDON OF DISCONNECT SWITCH.
4. PROVIDE CROUSE HINDS ARKTITE AR SERIES, STYLE 1 WALL MOUNTED RPIN/SLEEVE ECEPTACLE. PROVIDE CROUSE HINDS ARKTITE AP SERIES MATING PLUG WITH 3m TECK WHIP.

MAN = MANUAL STARTER/DISCONNECT
MAG = MAGNETIC STARTER C/W AUX STATUS CONTACTS
HOA = MAGNETIC STARTER C/W HAND/OFF/AUTO SWITCH & AUX STATUS CONTACTS
CP = CONTROL PANEL SUPPLIED W/ UNIT
SW = WIRED TO WALL SWITCH/STARTER (SUPPLIED AND WIRED BY DIV 16)
TSTAT = CONTROLLED BY THERMOSTAT (120v) (SUPPLIED BY DIV.15 AND WIRED BY DIV 16)
DDC = CONTROLLED BY DDC SYSTEM
VS = VARIABLE SPEED CONTROL SWITCH (SUPPLIED BY DIV.15)
FIRE = UNIT CONTROLLED BY FIRE ALARM PANEL

CSA RECEPTACLE CONFIGURATIONS



DEFINITIONS:
VOLT = REQUIRED SUPPLY VOLTAGE
PH = POWER PHASE
S = SUPPLIED BY DIV.
I = INSTALLED BY DIV.
C = CONNECTED BY DIV.
E PWR = FED BY EMERGENCY POWER
M = MECHANICAL
E = ELECTRICAL

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Revision/Revision	Description/Description	Date/Date
1	ISSUE FOR TENDER	18-05-02

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par
MB / DS

Drawn by/Dessine par
DS / HB

PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAIR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC
PREETIPAL PAUL

Drawing title/Titre du dessin

SHOP EQUIPMENT SCHEDULE

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	E506	1

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Friday, May 18, 2018 3:16:27 PM By: de los Santos, Ferdinand

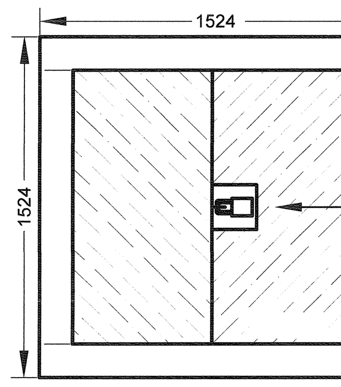
PWGSC - A0 - 1189x841

LEGEND

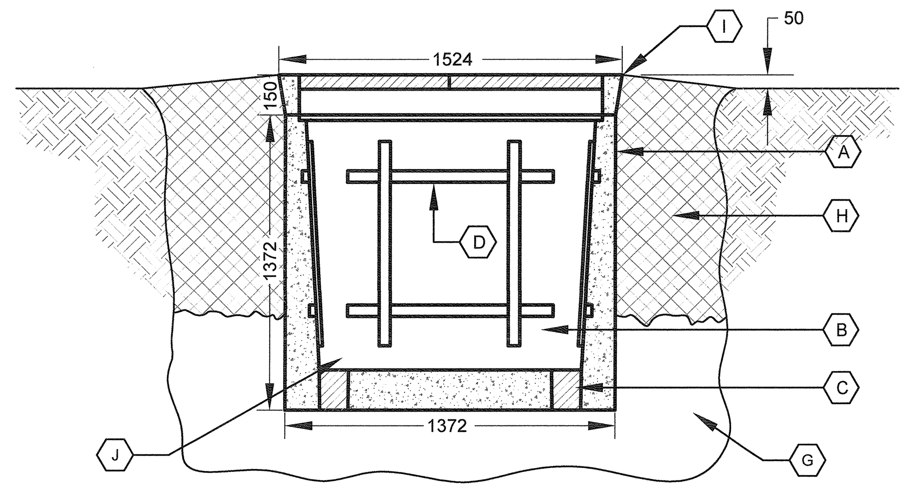
- (A) 1524x1524x1372mm DEEP CONCRETE PULL BOX DESIGNED FOR AASHTO HS20 LIVE LOAD
- (B) 390x310mm KNOCK-OUT CORES
- (C) 190mm DIAMETER SUMP
- (D) GALVANIZED STEEL CABLE CHANNELS ON ALL 4 SIDES
- (E) DOUBLE HATCH GALVANIZED STEEL COVER C/W RECESSED LOCKING HASP FOR PADLOCKING.
- (F) BEAD WELD I.D. OR PROVIDE ENGRAVED TAG TO HINGED COVER OR PULL BOX, WITH NOMINAL 150mm HIGH UPPERCASE LETTERS AS INDICATED. CONFIRM NAME TAG NUMBERING WITH DEPARTMENTAL REPRESENTATIVE.
- (G) PROVIDE 1 CUBIC METER OF DRAIN ROCK BELOW PULLBOX WRAPPED IN FILTER FABRIC. DRAIN ROCK TO BE 25-40mm ROUND ROCK WITH NO FINES OR SILT. FILTER FABRIC TO BE NON WOVEN POLYESTER GEOTEXTILE
- (H) COMPACTED NATIVE BACKFILL
- (I) SET BOX SO THAT TOP OF LID IS 50mm ABOVE FINISHED GRADE AND FEATHER GRADE AWAY FROM PULL BOX
- (J) ALL DUCTS ENTERING PULL BOXES TO BE TERMINATED WITH BELL-END FITTINGS AND GROUTED TO BOX

NOTES:

1. ALL NEW POWER CABLES AND COMMUNICATIONS CABLES INSTALLED THROUGH ALL NEW AND EXISTING UNDERGROUND PULL BOXES IS TO BE ROUTED AROUND SIDES OF PULL BOXES AND TIE-WRAPPED TO CABLE CHANNELS. CABLES ARE NOT TO LAY ON BOTTOM OF PULL BOXES.
2. SUPPLY & INSTALL LAMACOID OR S.S. TAG NAMEPLATES ON NEW POWER CABLES AND COMMUNICATIONS CABLES TO NEW MAINTENANCE BUILDING IN EACH NEW OR EXISTING U/G PULL BOX AND OTHER PULL BOXES IN WHICH CABLES PASS THROUGH. TIE-WRAP NAMEPLATES TO CABLES USING 2 TIE-WRAPS. CONFIRM EXACT WORDING OF NAMEPLATES WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO MANUACTURE.

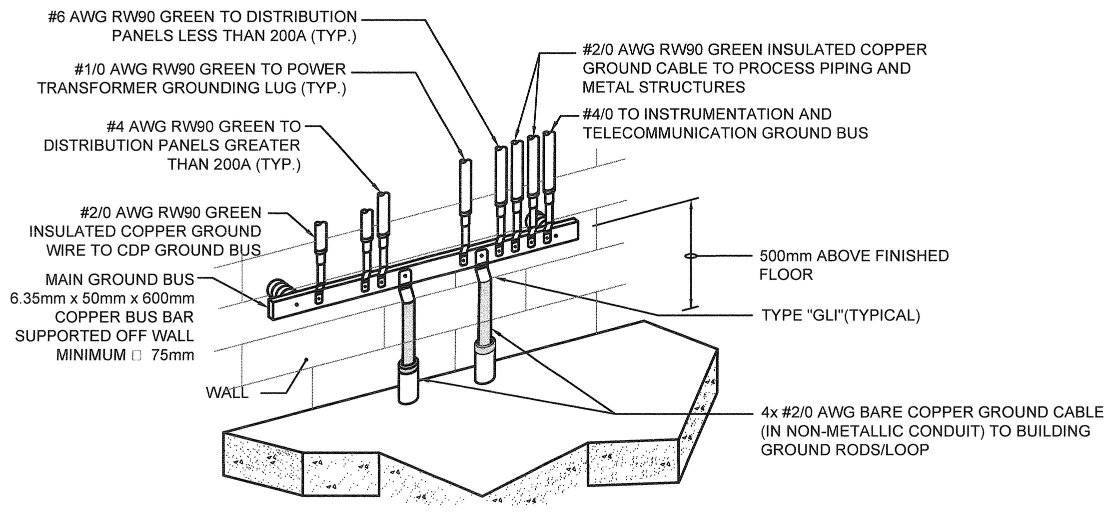


PLAN VIEW

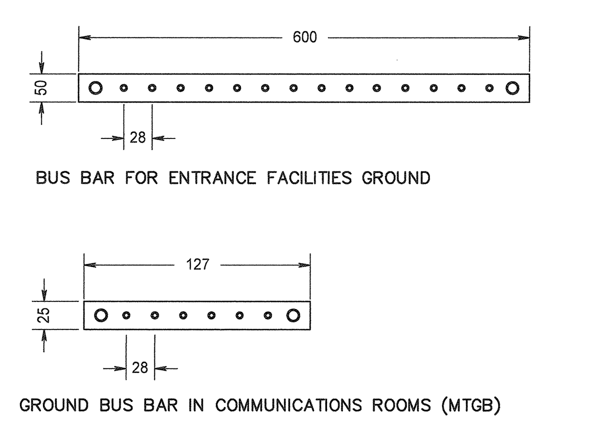


PULL BOX SECTION

A / E507 — TYP. PULL BOX DETAIL
NTS



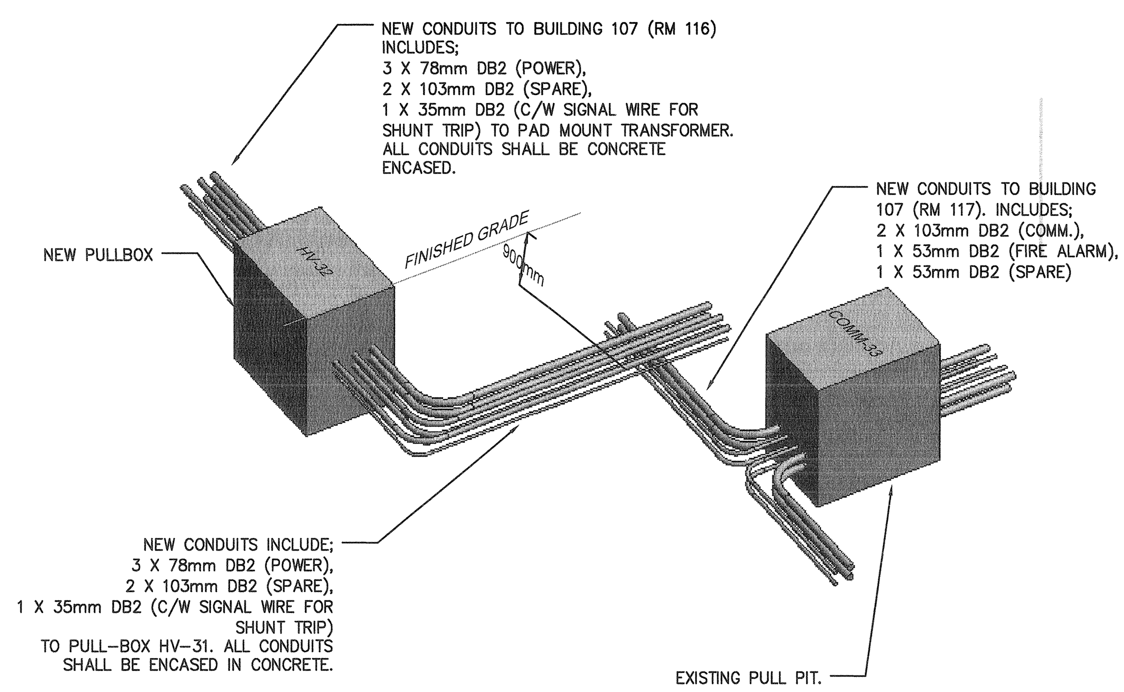
B / E507 — MAIN GROUND BUS DETAIL (TYPICAL)
NTS



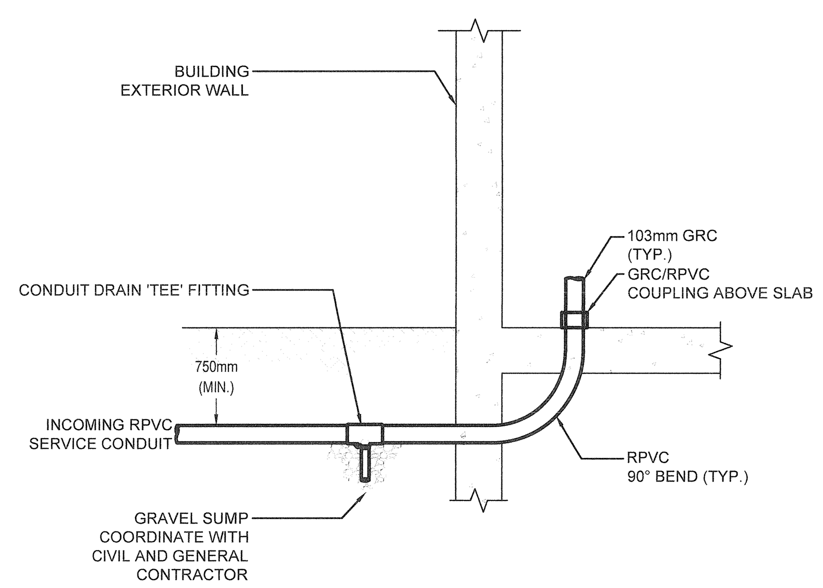
NOTE:

EACH BUS BAR SHALL BE 6 mm THICK COPPER BAR.

C / E507 — GROUND BUS BAR DETAIL (TYPICAL)
NTS



D / E507 — NEW PULL BOX INSTALLATION - ELEVATION
NTS

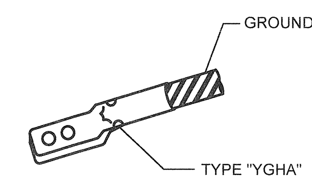


E / E507 — CONDUIT ENTRANCE DETAIL
NTS

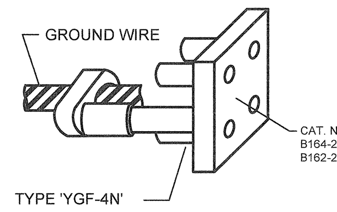
GENERAL NOTES

1. ALL GROUNDING OR BONDING CONNECTIONS SHALL BE AS PER THE SPECIFICATIONS OR AS SHOWN ON DRAWINGS.
2. ALL GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE SECTION(S) OF THE CANADIAN ELECTRICAL CODE AND ALL LOCAL AMENDMENTS THERETO.
3. ALL PENETRATIONS THRU FIRE RATED FLOORS, WALLS, OR CEILINGS SHALL BE SEALED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE ALRT CODE.
4. SUFFICIENT SLACK SHALL BE PROVIDED AT THE POINTS OF ATTACHMENT OF ALL BELOW GRADE GROUND CONDUCTORS SUCH THAT BACKFILLING OPERATION WILL NOT DAMAGE CONDUCTORS OR CONNECTIONS.
5. PVC CONDUIT SLEEVES SHALL BE PROVIDED AT EACH POINT WHERE GROUND CONDUCTORS PASS THRU FLOOR SLABS OR FOUNDATIONS.

TYPICAL GROUNDING COMPONENTS AND APPLICATION



COMPRESSION GROUND LUG BURNDY TYPE YGHA



COMPRESSION TYPE "YGF-4N" GROUND PLATE

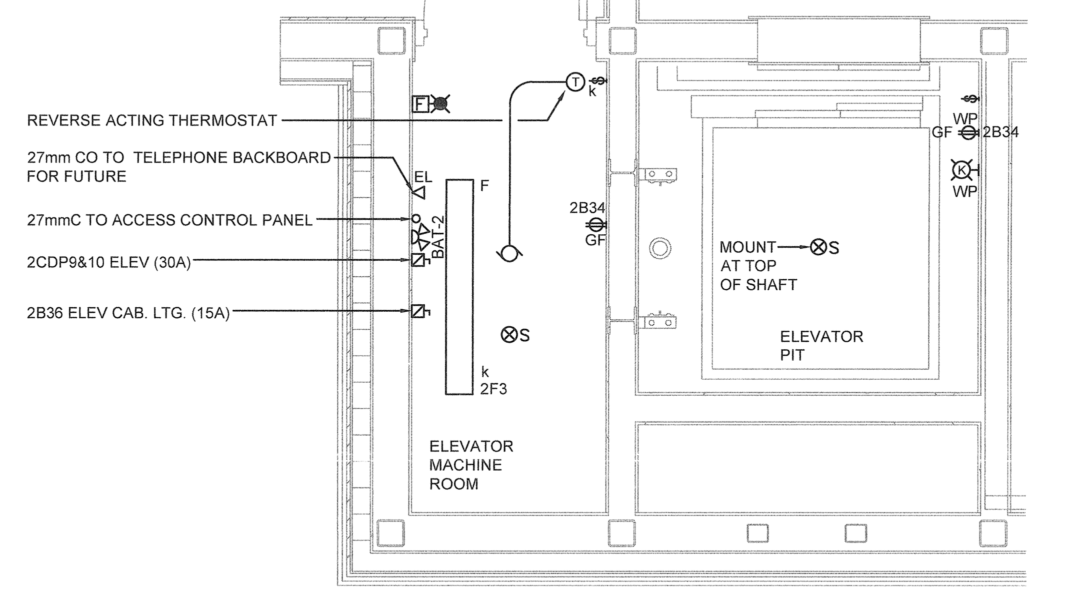
F / E507 — GROUND BUS COMPONENTS
NTS

GENERAL NOTES

1. THE LAYOUT OF EQUIPMENT IN THE ELEVATOR ROOM IS SCHEMATIC ONLY. BEFORE ANY ROUGH-IN OF CONDUIT OR EQUIPMENT, CONTRACTOR SHALL CONFIRM ACTUAL SIZE TO ENSURE FEASIBILITY OF INSTALLATIONS.

2. ALL ELECTRICAL EQUIPMENT WITHIN VENTILATED ENCLOSURES MUST BE PROTECTED FROM DIRECT SPRAY FROM SPRINKLER HEADS. CONTRACTOR TO PROVIDE HOODS OR SHIELDS TO PREVENT WATER FROM ENTERING VENTILATION OPENING ON SIDES AND TOPS OF ELECTRICAL EQUIPMENT. WHERE HOODS AND SHIELDS CANNOT BE INSTALLED TO MEET THIS CRITERIA AROUND OPENINGS NEAR DRY TYPE CONNECTORS FOR ARMORED CABLE, FLEX, ETC. TOP ENTRY OF ARMORED CABLE OR FLEX IS PROHIBITED UNLESS PROVIDED WITH WATER TIGHT CONNECTOR.

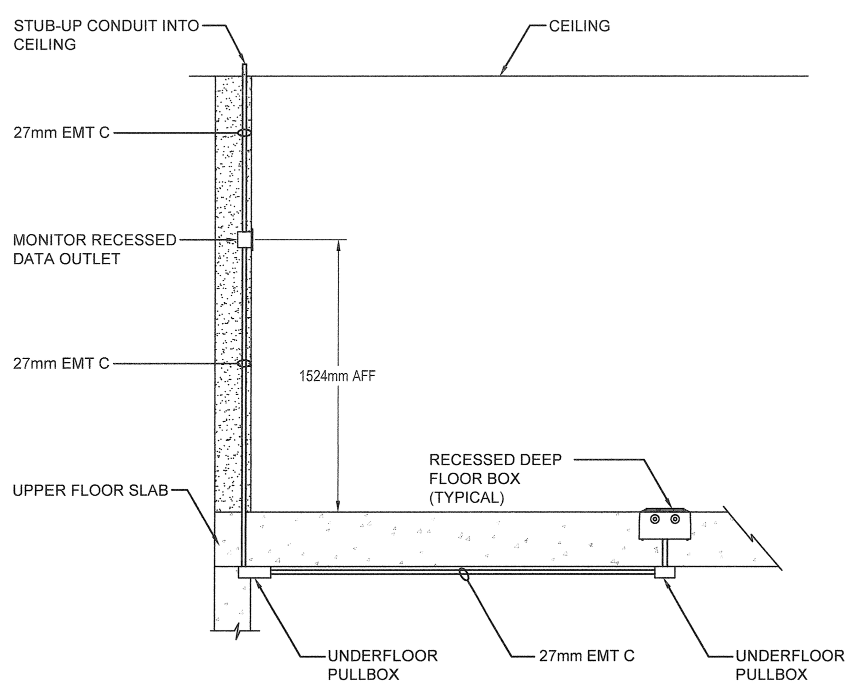
3. PROVIDE CONCRETE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT. WHERE APPLICABLE.



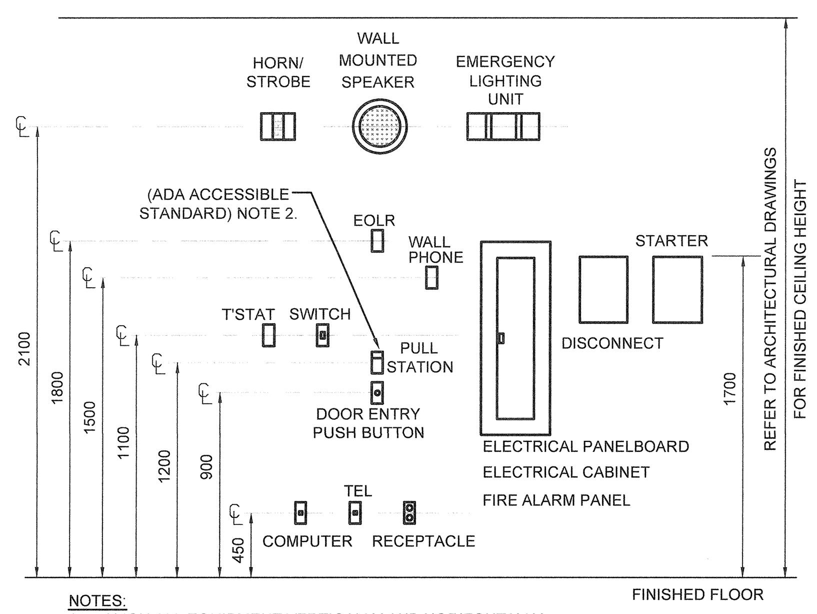
NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL DIMENSIONS.
2. CONFIRM ALL REQUIREMENTS WITH ELEVATOR EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
3. PROVIDE 27mmC FROM ELEVATOR MACHINE ROOM TO FIRE ALARM CONTROL PANEL c/ WIRING, DEVICES AND TERMINATIONS FOR COMPLETE OPERATIONAL ELEVATOR PARKING AND DE-ACTIVATION WHEN ALARM SIGNAL IS ACTIVATED.
4. PIT AND MACHINE RECEPTACLES AND LIGHTS TO BE FED FROM PANEL '2B' FROM A DEDICATED 1P/15A BREAKER FOR EACH LOCATION (ONE FOR MACHINE ROOM AND ONE FOR PIT).

K / E507 — ELEVATOR ROOM DETAIL
NTS

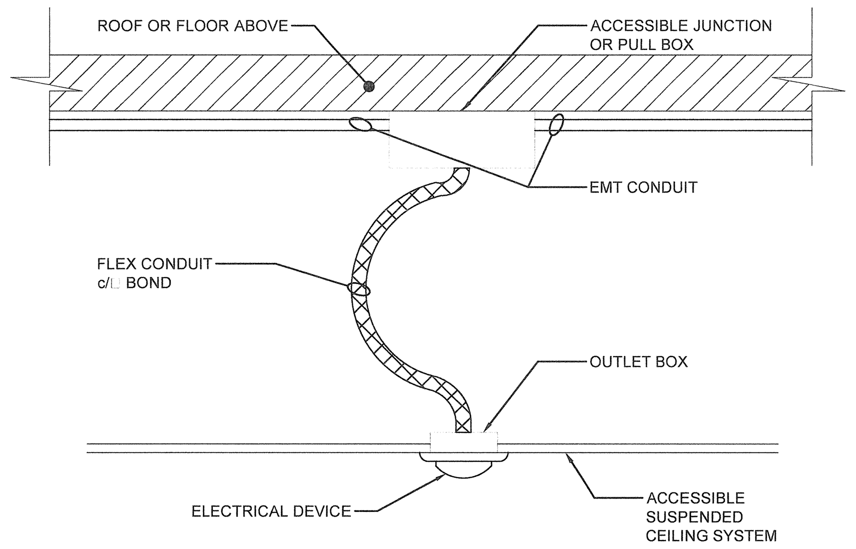


G / E507 — MEETING ROOM 202 - MONITOR/FLOOR BOX DATA CONDUIT DETAIL
NTS

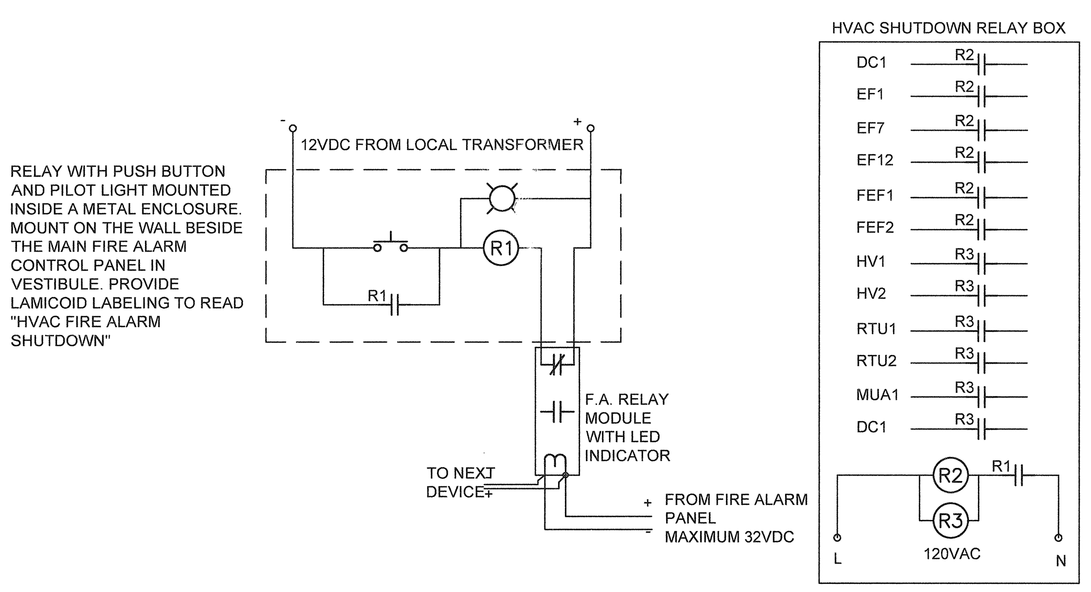


NOTES:
1. ALIGN ALL EQUIPMENT VERTICALLY AND HORIZONTALLY.
2. COORDINATE WITH ARCHITECTURAL. (1050-1200 AFF)

H / E507 — DEVICE MOUNTING HEIGHT DETAIL
NTS

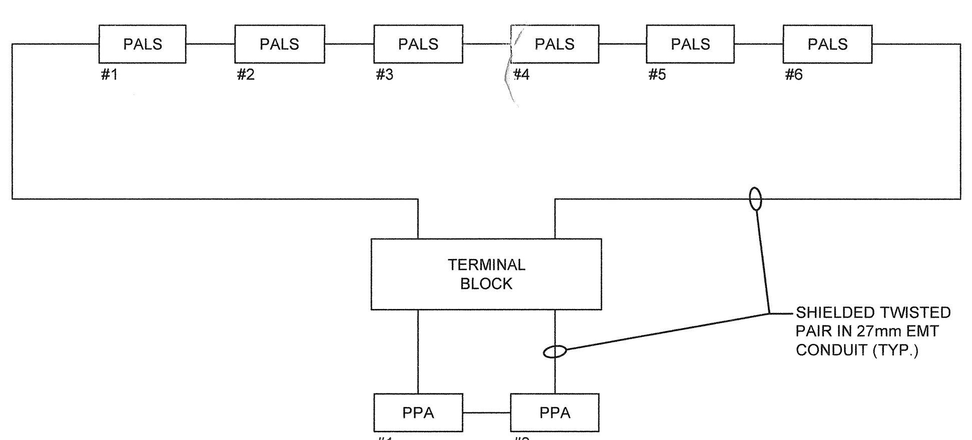


J / E507 — TYPICAL INSTALLATION DETAIL FOR FLEX CONDUIT DROPS
NTS



COORDINATE MECHANICAL CONTROL INTERFACE TO FIRE ALARM WITH DIV 25 PRIOR TO ROUGH IN

L / E507 — FIRE ALARM / HVAC SHUTDOWN SCHEMATIC
NTS



M / E507 — PPA / PALS - LINE DIAGRAM
NTS

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1	ISSUE FOR TENDER	18-05-02

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

6000 William Head Road, Metchosin, BC

WILLIAM HEAD INSTITUTION MAINTENANCE BUILDING (BUILDING 107)

Consultant Approval Box Only

Designed by/Concept par: MB / DS

Drawn by/Dessine par: DS / HB

PWGSC Project Manager/Administrateur de Projets TPSGC: DARYL SINCLAIR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architectural et de génie, TPSGC: PREETIPAL PAUL

Drawing title/Titre du dessin

ELECTRICAL DETAILS

Project No./No. du projet	Sheet/ Feuille	Revision no./La Révision no.
R.069377.001	E507	1

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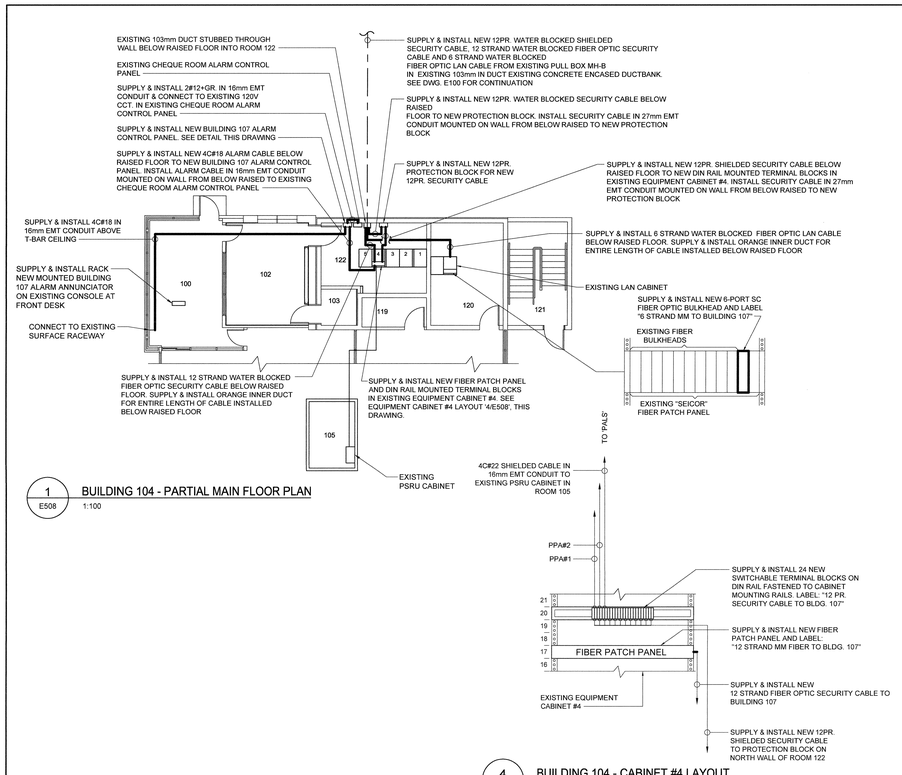
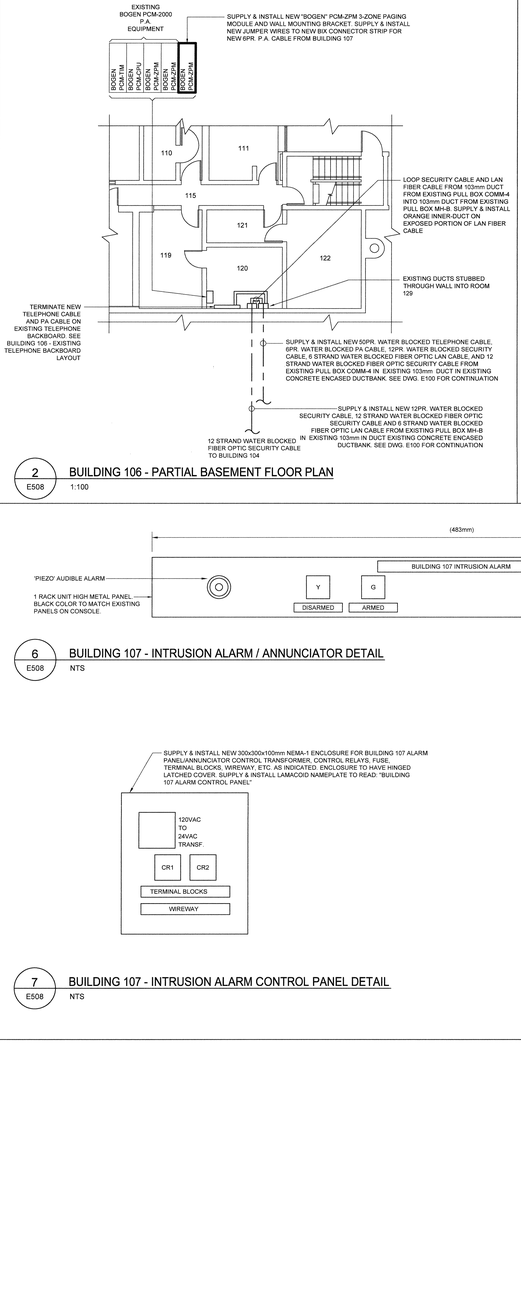
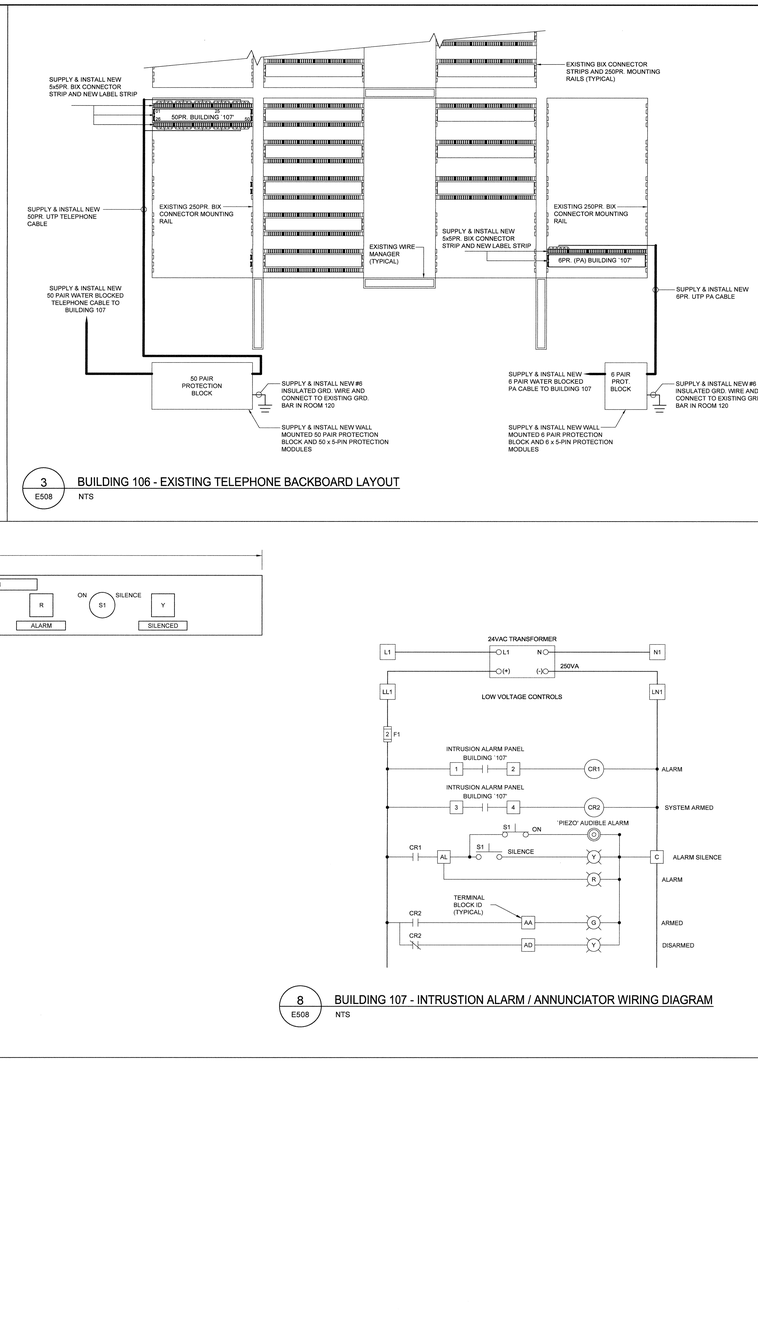


1 E508 BUILDING 104 - PARTIAL MAIN FLOOR PLAN
1:100

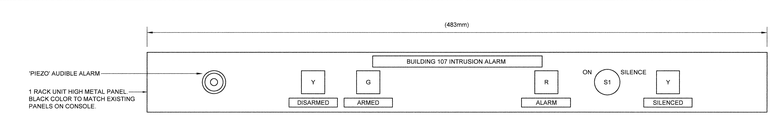
4 E508 BUILDING 104 - CABINET #4 LAYOUT
NTS



2 E508 BUILDING 106 - PARTIAL BASEMENT FLOOR PLAN
1:100



3 E508 BUILDING 106 - EXISTING TELEPHONE BACKBOARD LAYOUT
NTS



6 E508 BUILDING 107 - INTRUSION ALARM / ANNUNCIATOR DETAIL
NTS

7 E508 BUILDING 107 - INTRUSION ALARM CONTROL PANEL DETAIL
NTS

8 E508 BUILDING 107 - INTRUSTION ALARM / ANNUNCIATOR WIRING DIAGRAM
NTS

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1	ISSUE FOR TENDER	18-05-02
Revision/ Revision	Description/Description	Date/Date

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet

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DS / HB

PWGSC Project Manager/Administrateur de Projets TPSGC
DARYL SINCLAIR

PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architecturaux et de génie, TPSGC
PREETIPAL PAUL

Drawing title/Titre du dessin

BUILDING PARTIAL PLAN AND DETAILS

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
R.069377.001	E508	1

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