



SYMBOL LEGEND	
	DUPLEX POWER RECEPTACLE (* INDICATES SWITCHING REQUIRED BY ASHRAE 90.1 2010)
	QUAD RECEPTACLE (* INDICATES SWITCHING REQUIRED BY ASHRAE 90.1 2010)
	POWER RECEPTACLE (CEILING)
	SINGLE POLE SWITCH
	LOW VOLTAGE DIMMING SWITCH
	WALL STRUCTURED WIRING OUTLET
	DIRECT CONNECTION
	SURVEILANCE CAMERA
	PANEL
	DAYLIGHT HARVESTING SENSOR
	WALL MOUNTED FIXTURE
	CEILING MOUNTED FIXTURE
	EXISTING FIRE ALARM PANEL
	LUMINAIRE ON EMERGENCY POWER CIRCUIT OR WITH BATTERY BACKUP AS INDICATED.
	2x4 LUMINAIRE
	600x600 LUMINAIRE
	4FT STRIP (SURFACE OR SUSPENDED - AS INDICATED)
	MOTOR AND DISCONNECT
	AV SPEAKER
	FIRE ALARM BELL
	PULL STATION
	CARD READER
	REQUEST TO EXIT SENSOR
	ELECTRIFIED DOOR HARDWARE
	DOOR POSITION SWITCH
	WALL EXIT, TYPE AS INDICATED
	OCCUPANCY SENSOR - WALL AND CEILING D: INDICATES WITH DAYLIGHT SENSOR
	INDICATES DEVICE IS ABOVE COUNTER
	LUMINAIRE TYPE TAG

DRAWING INDEX		
NO.	TITLE	REVISION
E01	ELECTRICAL DRAWING LIST & SYMBOL LEGEND	2
E02	ELECTRICAL DEMOLITION DRAWING	2
E03	NEW ELECTRICAL PLAN	2
E10	ELECTRICAL DETAILS	2

**NOTES LEGEND:**

VS 1. . . . . INDICATES THAT THE NOTE APPLIES TO THE ENTIRE DRAWING.

INDICATES THAT THE NOTE IS REFERENCED TO A SPECIFIC LOCATION ON THE DRAWING.

Revision/	Description/Description	Date/Date
2	ISSUED FOR TENDER	18JUN11
1	ISSUED FOR TENDER	16APR27

**FISHERIES & OCEANS  
CANADA**

200-401 BARRARD STREET  
VANCOUVER, BC V6C 3R2

Project title/Titre du projet

4160 MARINE DRIVE  
WEST VANCOUVER, BC V7V 1H2

**PSEC CLASSROOM  
ADDITION & RENOVATION**

Consultant Signature Only

Designed by/Concept par  
DAVID CARTER

Drawn by/Deasine par  
PBX/2018/03/16

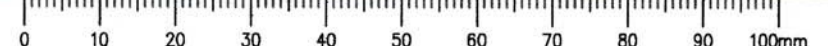
PWGSC Project Manager/Administrateur de Projets TPSGC  
PWGSC-PROJECT\_MANAGER

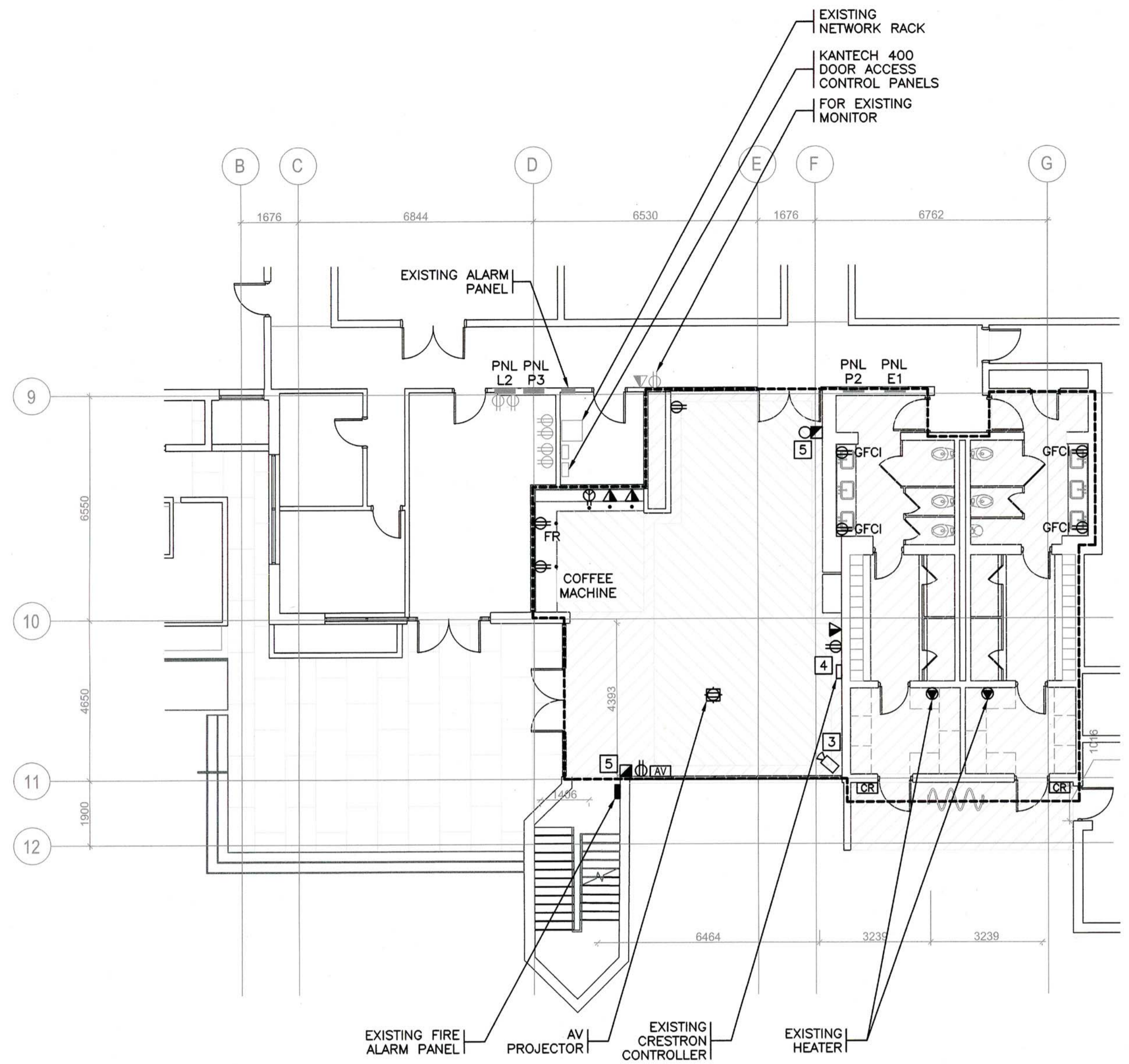
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Drawing title/Titre du dessin

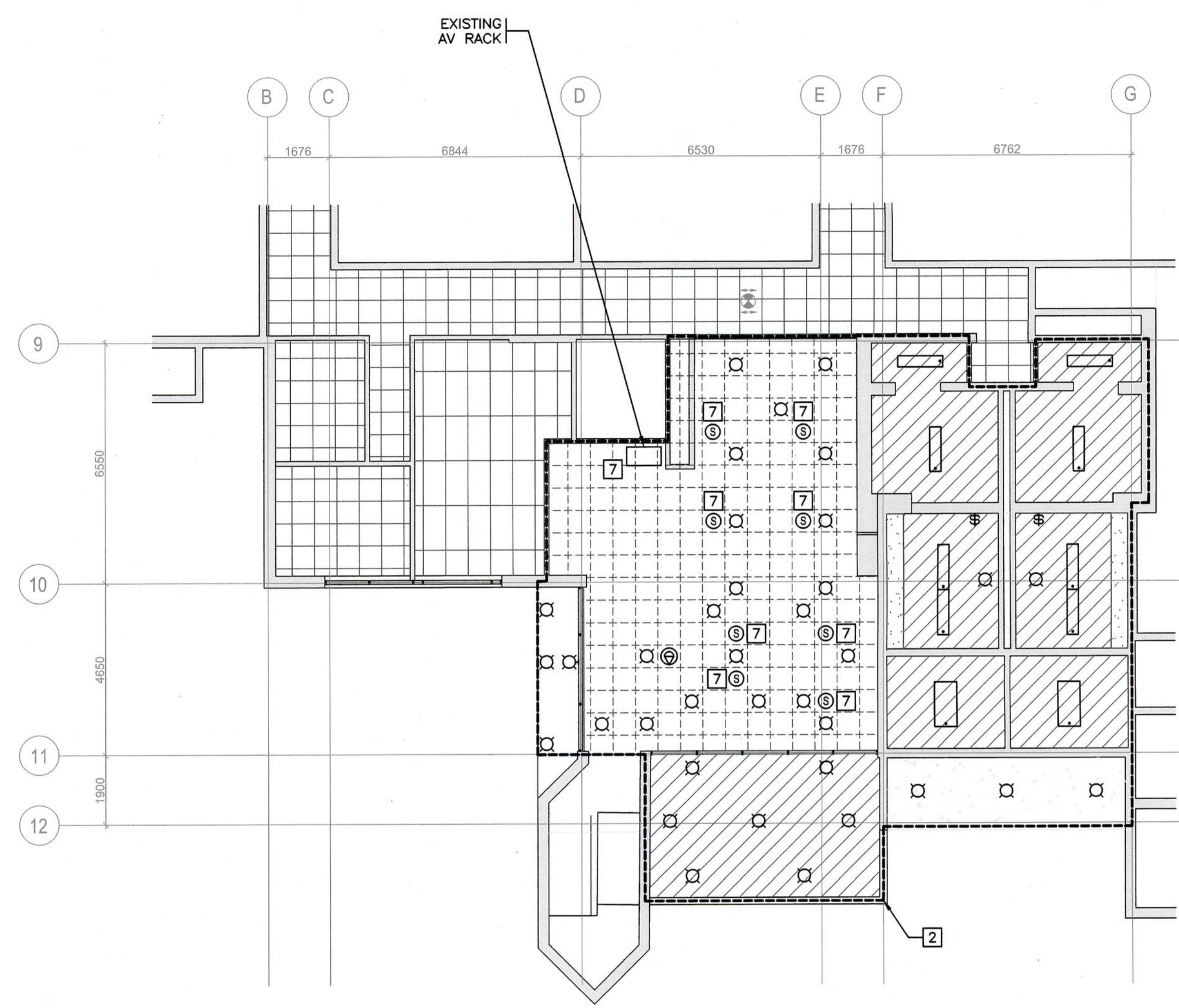
**ELECTRICAL DRAWING LIST  
& SYMBOL LEGEND**

Project No./No. du projet 04A: 1802-002	Sheet/Feuille E01 OF XX	Revision no./La Révision no. 2
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**DETAIL 1 DEMO FLOOR PLAN**  
1:100



**DETAIL 2 DEMO REFLECTED CEILING PLAN**  
1:100

**NOTES:**

1. DEVICES AS SHOWN ARE COMPILED FROM A NON-INTRUSIVE VISUAL FIELD REVIEW AND EXISTING RECORD DRAWINGS. AS SUCH THERE MAY BE SOME DISCREPANCIES IN THE QUANTITY OF DEVICES ON SITE. CONTRACTOR MUST CONFIRM EXACT QUANTITIES ON SITE PRIOR TO SUBMITTING TENDER BID.
2. CONTRACTOR TO ALLOW FOR DEMOLITION AND REMOVAL OF EXISTING DEVICES WITHIN THE AREA OF WORK:
  - 2.1. REMOVE ELECTRICAL WIRING AND CONDUIT BACK TO THE NEAREST ACTIVE JUNCTION BOX OR LOCAL ELECTRICAL PANEL AND MAKE SAFE.
  - 2.2. REMOVE TELECOM WIRING BACK TO THE LOCAL COMMUNICATIONS ROOM.
  - 2.3. DISCONNECT AND REMOVE EXISTING FIRE ALARM DEVICES AND PROVIDE WIRING, CONDUIT, AND ANY PARTIAL VERIFICATION TO REQUIREMENTS OF CAN/ULC S537 REQUIRED DURING THE DEMOLITION WORK TO ENSURE THAT THE FIRE ALARM SYSTEM OUTSIDE OF THE AREA OF RENOVATION CONTINUES TO BE FULLY FUNCTIONAL.
  - 2.4. REMOVE SECURITY DEVICES AND PROVIDE RECONFIGURATION TO TEMPORARILY SUSPEND TROUBLE AND/OR ALARM SIGNALS FROM THE AREA OF WORK.
3. REMOVE CAMERA AND RELOCATE AS PER NEW DRAWINGS.
4. REMOVE CRESTRON STATION AND RELOCATE AS PER NEW DRAWINGS.
5. REMOVE AND RELOCATE EXISTING FIRE ALARM DEVICE.
6. DEVICES SHOWN LIGHT ARE EXISTING TO REMAIN. DEVICES SHOWN DARK ARE NEW, MODIFIED, OR REMOVED.
7. RETAIN AND PROTECT THE EXISTING AV SPEAKERS AND AV RACK. REFER TO NEW FLOORPLAN FOR REVISED LOCATIONS OF DEVICES.

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**FISHERIES & OCEANS CANADA**  
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VANCOUVER, BC V6C 3R2

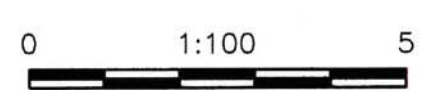
Project title/Titre du projet  
**4160 MARINE DRIVE  
WEST VANCOUVER, BC V7V 1H2**

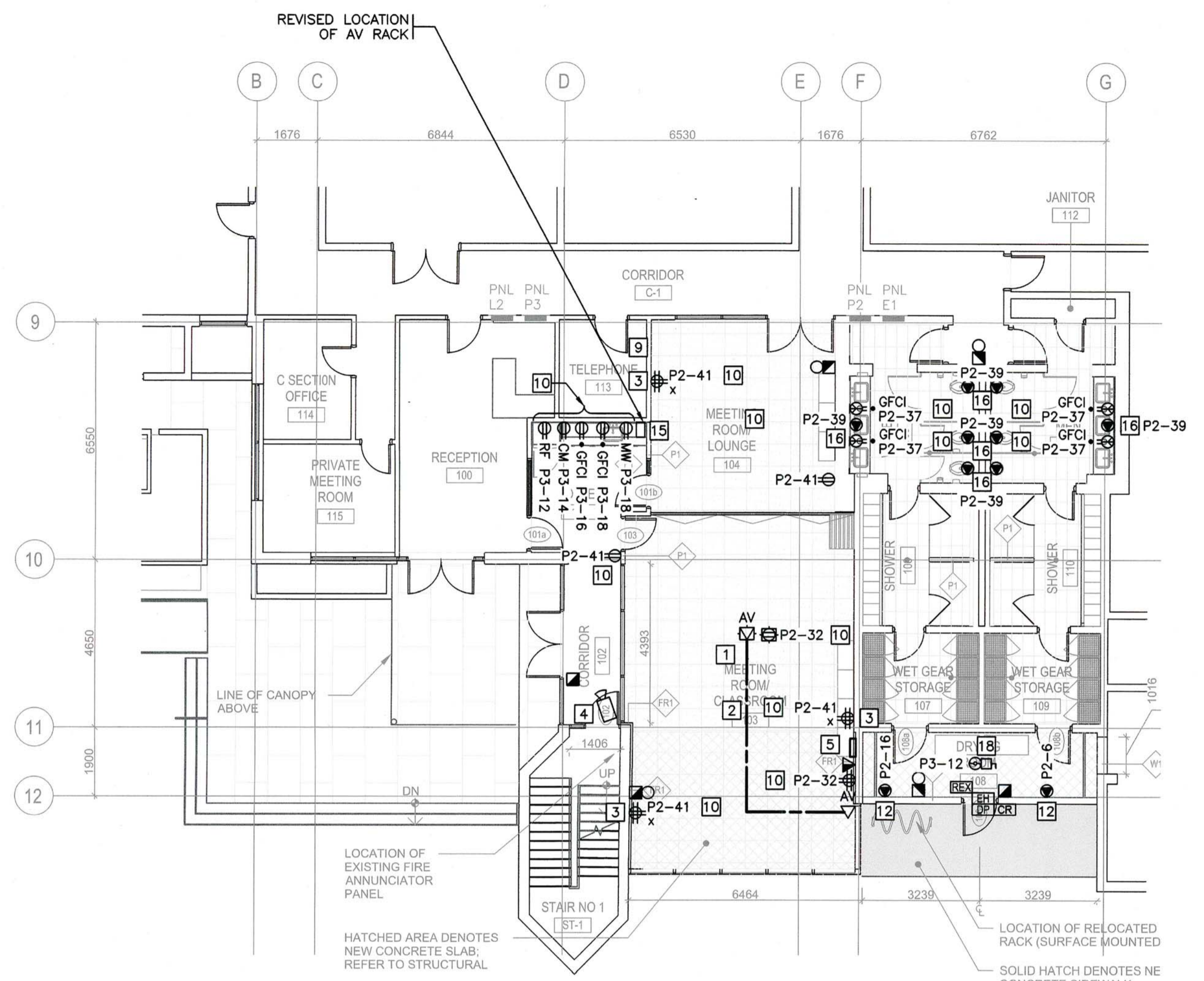
**PSEC CLASSROOM  
ADDITION & RENOVATION**

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Designed by/Concept par  
**DAVID CARTER**  
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**PBX/2018/03/16**  
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Regional Manager, Architectural and Engineering Services  
Gestionnaire régional, Services d'architecture et de génie, TPSSC  
**PWGSC-REGIONAL\_MANAGER**

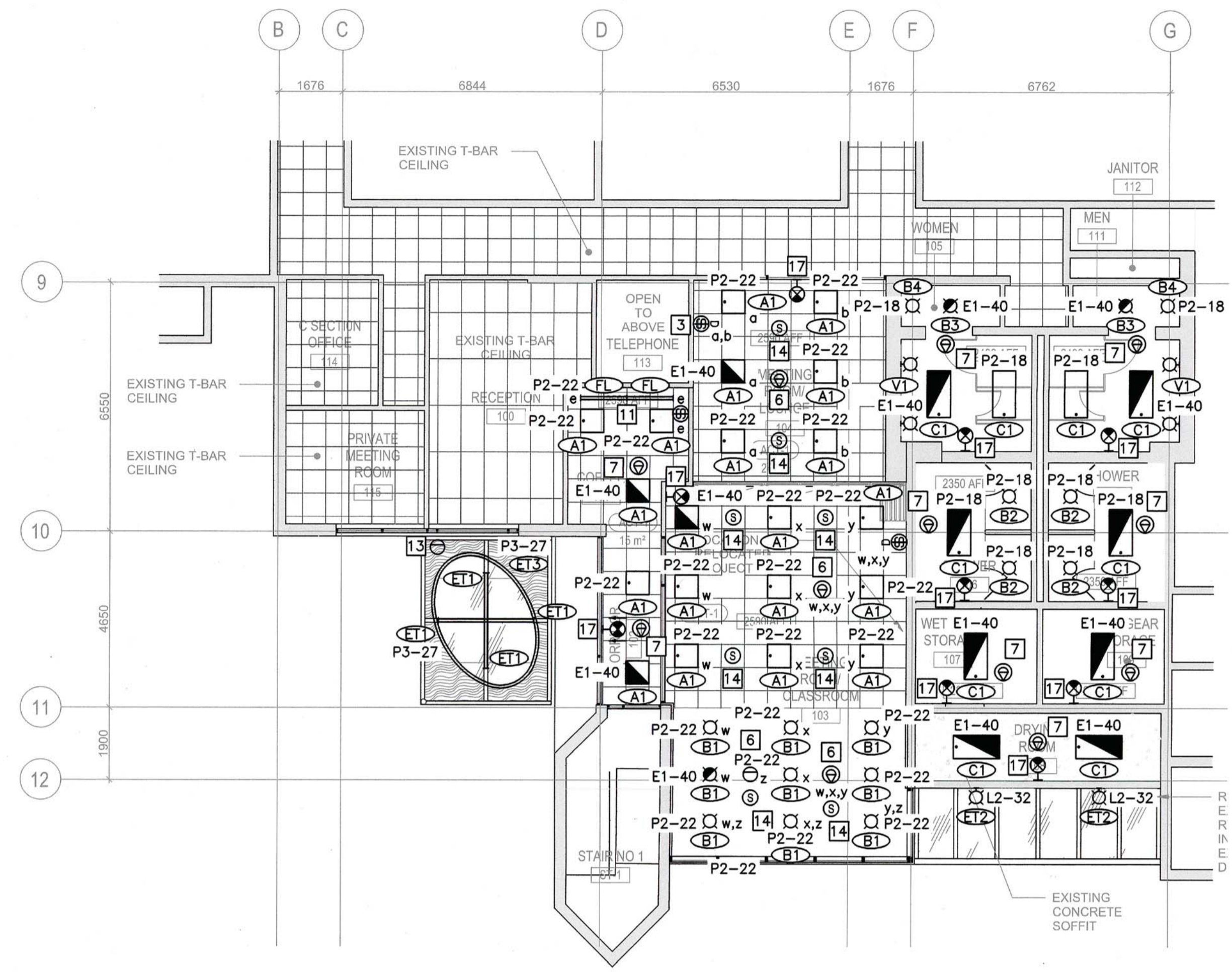
Drawing title/Titre du dessin  
**ELECTRICAL DEMOLITION  
DRAWING**

Project No./No. du projet <b>O4A: 1802-002</b>	Sheet/Fauille <b>E02</b> OF XX	Revision no./La Révision no. <b>2</b>
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**DETAIL 1 FLOOR PLAN**  
 1:100



**DETAIL 2 REFLECTED CEILING PLAN**  
 1:100

LUMINAIRE SCHEDULE						
TYPE	DESCRIPTION	LUMINAIRE DETAILS				
		MAKE AND MODEL	SOURCE	DRIVER/BALLAST	VOLTAGE	MOUNTING
A1	600x600 (2x2) FLUXPANEL LED RECESSED LUMINAIRE	PHILIPS LIGHTING 2FXP-38L-835-2-DS-120-DIM	LED 3500K 80+CRI	0-10V DIMMING	120	CEILING RECESSED
B1	150mm DIA RECESSED LED DOWNLIGHT	PHILIPS LIGHTOLIER C6-R-N C6L-15-8-35-M-Z10-120 C6-R-DL-CL-P	LED 3500K 80+CRI	0-10V DIMMING	120	CEILING RECESSED
B2	150mm DIA RECESSED LED SHOWER DOWNLIGHT WITH DEAD FRONT AND WET LOCATION IP65	PHILIPS LIGHTOLIER C6-R-N C6L-15-8-35-M-Z10-120 C6-R-SL-CL-P-C6RVPWH	LED 3500K 80+CRI	0-10V OFF/ON	120	CEILING RECESSED
B3	150mm DIA RECESSED LED DOWNLIGHT	PHILIPS LIGHTOLIER C6-R-N C6L-15-8-35-M-120 C6-R-DL-CL-P	LED 3500K 80+CRI	0-10V OFF/ON	120	CEILING RECESSED
B4	100mm DIA RECESSED ADJUSTABLE LED ACENT LUMINAIRE	PHILIPS LIGHTOLIER C4L-A-15-N-U C4L-15-A-35-8-SP C4L-A-CL-P	LED 3500K 80+CRI	0-10V OFF/ON	120	CEILING RECESSED
C1	600x1200 (2x4) RECESSED FLUXPANEL LED LUMINAIRE	PHILIPS LIGHTING 2FXP-43L-835-4-DS-120-DIM	LED 3500K 80+CRI	0-10V DIMMING/OFF/ON AS	120	CEILING RECESS MOUNTED IN TBAR
ET1	1200mm LINEAR LED LUMINAIRE	SQI LED SQ1-L-4-135-0-02-C-X	LED 3500K	0-10V OFF/ON	120	SURFACE MOUNTED
ET2	LED WALL MOUNTED LUMINAIRE	LUMARK LIGHTING XTOR2B-W-BZ-PC2-347	LED 4000K	0-10V OFF/ON	347	WALL MOUNTED
ET3	FLEXIBLE EXTERIOR LED LUMINAIRE WITH FLAT TOP COMPLETE WITH MOUNTING ACCESSORY CHANNELS AND FITTINGS FOR INSTALLATION. PROVIDE COMPATIBLE TRANSFORMER DRIVER AND CONNECTIONS AS REQUIRED FOR A FULLY FUNCTIONAL INSTALLATION	SGL lighting NEON-P-FLT-WHT-3500K	LED 3500K	0-10V OFF/ON	120	SURFACE MOUNTED
EX	PICTOGRAM 'RUNNING MAN' EXIT SIGNAGE	LUMACELL LS SERIES	LED		120 / INTERNAL BATTERY	UNIVERSAL SURFACE MOUNTED
FL	RECESSED LED TAPE LIGHT	SGL lighting Flex-P-ULTRA-24VDC-W-3500K-85	LED	0-10V OFF/ON	DC	INSTALL UNDER-CABINET TRACK-LP1407-SIL-FF MOUNTING TRACK
V1	LINEAR 600mm VANITY LED LUMINAIRE	PRUDENTIAL LIGHTING HALF SNAP HSS-LED35-LO-3-SAL-YGW-SC-UNV-SUR-ND	LED 3500K	0-10V OFF/ON	120	SURFACE WALL MOUNTED

**NOTES:**

- OUTLETS FOR NEW PROJECTOR LOCATION.
- PROVIDE NEW 53mm CONDUIT COMPLETE WITH BUSHING AND PULLSTRING FOR AV CABLING.
- PROVIDE LOCAL LOW VOLTAGE LIGHTING CONTROL SYSTEM RELAY MODULES FOR THE CONTROL OF THE RECEPTACLES WHERE INDICATED IN THE SPACE.
- PROVIDE NEW SECURITY PTZ CAMERA TO MATCH THE EXISTING FACILITY STANDARD. INTEGRATE THE NEW PTZ CAMERA INTO THE EXISTING FACILITY CONTROL AND PROVIDE CABLING, POWER SUPPLY, NVR, ENCODER AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM.
- RELOCATED CRESTRON CONTROLLER.
- LOW VOLTAGE DIMMING/OFF/ON CONTROL. LOCAL CONTROL SWITCH ZONES AS INDICATED BY LOWERCASE LETTERS. PROVIDE DUAL TECHNOLOGY OCCUPANCY AND DAYLIGHT HARVESTING SENSORS WITH CONTROL ZONES AS INDICATED
- LOW VOLTAGE OFF/ON CONTROL. PROVIDE DUAL TECHNOLOGY OCCUPANCY SENSORS WITH CONTROL ZONES AS INDICATED.
- DEVICES SHOWN LIGHT ARE EXISTING TO REMAIN. DEVICES SHOWN DARK ARE NEW, MODIFIED, OR REMOVED.
- PROVIDE NEW KANTECH 400 SECURITY ACCESS PANEL FOR NEW SECURITY DOOR.
- CONTRACTOR TO USE THE EXISTING SPACES/SPARE CIRCUITS IN PANELS E1, P2, OR P3. CONTRACTOR MAY RE-USE EXISTING CIRCUITS IN THE AREA MADE SPARE BY THE REMOVAL OF DEVICES DURING DEMOLITION. CONTRACTOR MUST CONFIRM ON SITE PRIOR TO RE-USE.
- CONTRACTOR TO COORDINATE EXACT ELEVATION AND INSTALLATION WITH ARCHITECT'S DRAWINGS. PROVIDE LENGTHS MEASURED ON SITE AS REQUIRED.
- CONNECTION FOR DIRECT DRY RACK. CONTRACTOR TO COORDINATE EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS AND MANUFACTURER REQUIREMENTS.
- CONTRACTOR TO PROVIDE PHOTOCELL TO CONTROL 'ET1' LUMINAIRES.
- CONTRACTOR TO PROVIDE NEW CABLES AS REQUIRED FOR THE REVISED LOCATION OF THE EXISTING SPEAKERS AND THE AV RACK.
- CONTRACTOR TO UTILIZE THE EXISTING POWER CIRCUIT POWERING THE AV RACK AT IT'S OLD LOCATION AND RE-FEED FOR THE RELOCATED AV RACK.
- PROVIDE DIRECT 120V AC CONNECTION TO MECHANICAL TRANSFORMER FOR FLUSH VALVES/SINKS.
- CONNECT NEW EXIT SIGNS TO EXISTING EXIT SIGN CIRCUIT IN THE AREA. CONFIRM SUPPLY VOLTAGE PRIOR TO ORDERING.
- PROVIDE NEW MANUAL MOTOR STARTER SWITCH FOR FAN UNIT. COORDINATE EXACT LOCATION WITH ARCHITECT AND MECHANICAL CONTRACTOR.



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Revision/	Description/Description	Date/Date
Client/client		

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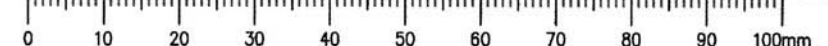
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**4160 MARINE DRIVE  
 WEST VANCOUVER, BC V7V 1H2**

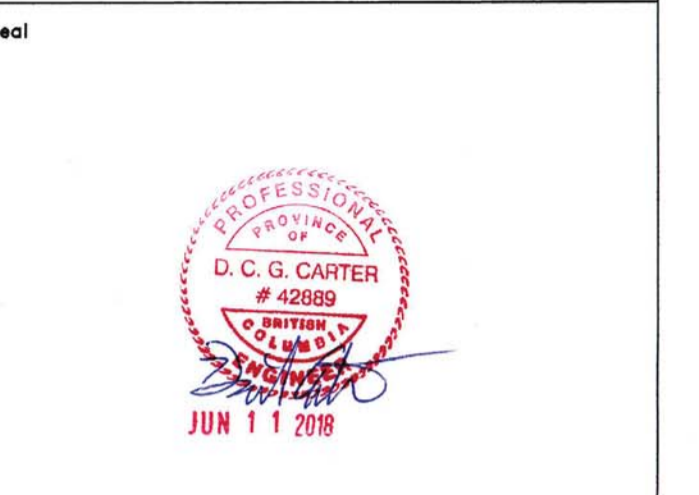
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**PBX2018/03/16**  
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 Gestionnaire Régionale, Services d'architectural et de génie, TP50C  
**PWGSC-REGIONAL\_MANAGER**

Drawing title/Titre du dessin  
**NEW ELECTRICAL PLAN**

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DESCRIPTION	kW	BKR.	CIRCUIT NO.	BKR.	kW	DESCRIPTION
EXISTING CIRCUIT	-	15A	1-2	15A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	3-4	15A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	5-6	15A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	7-8			
EXISTING CIRCUIT	-	15A	9-10			
EXISTING CIRCUIT	-	15A	11-12			
EXISTING CIRCUIT	-	20A	13-14	20A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	15-16	20A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	17-18	2P	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	19-20	40A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	21-22			
EXISTING CIRCUIT	-	15A	23-24	3P	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	25-26	20A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	27-28	20A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	29-30	20A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	31-32	15A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	33-34	15A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	35-36	15A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	37-38	15A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	39-40	15A	-	EMERGENCY LIGHTING
EXISTING CIRCUIT	-	15A	41-42			SPACE
TOTAL						TOTAL

MAINS: ITE NLAB PANEL 100A  
 MOUNTING: RECESSED  
 MAIN BKR.: NONE  
 VOLTS: 120/208V

DESCRIPTION	kW	BKR.	CIRCUIT NO.	BKR.	kW	DESCRIPTION
EXISTING CIRCUIT	-	15A	1-2	15A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	3-4	15A	-	EXIST. CIRCUIT GFCI BREAKER
EXISTING CIRCUIT	-	15A	5-6	15A	-	EXIST. CIRCUIT GFCI BREAKER
EXISTING CIRCUIT	-	15A	7-8	15A	-	EXIST. CIRCUIT GFCI BREAKER
EXISTING CIRCUIT	-	15A	9-10	15A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	11-12	30A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	20A	13-14	2P	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	15-16	15A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	17-18	15A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	19-20	15A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	21-22	15A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	23-24	15A	-	EXISTING CIRCUIT
SPACE			25-26	40A	-	EXIST. CIRCUIT BREAKER
SPACE			27-28			
SPACE			29-30	3P	-	
SPACE			31-32	15A	-	EXTERIOR LIGHTING
SPACE			33-34			SPACE
SPACE			35-36			SPACE
SPACE			37-38			SPACE
SPACE			39-40			SPACE
SPACE			41-42			SPACE
TOTAL						TOTAL

MAINS: SIEMENS ELECTRIC CDP 100A  
 MOUNTING: RECESSED  
 MAIN BKR.: NONE  
 VOLTS: 347/600V

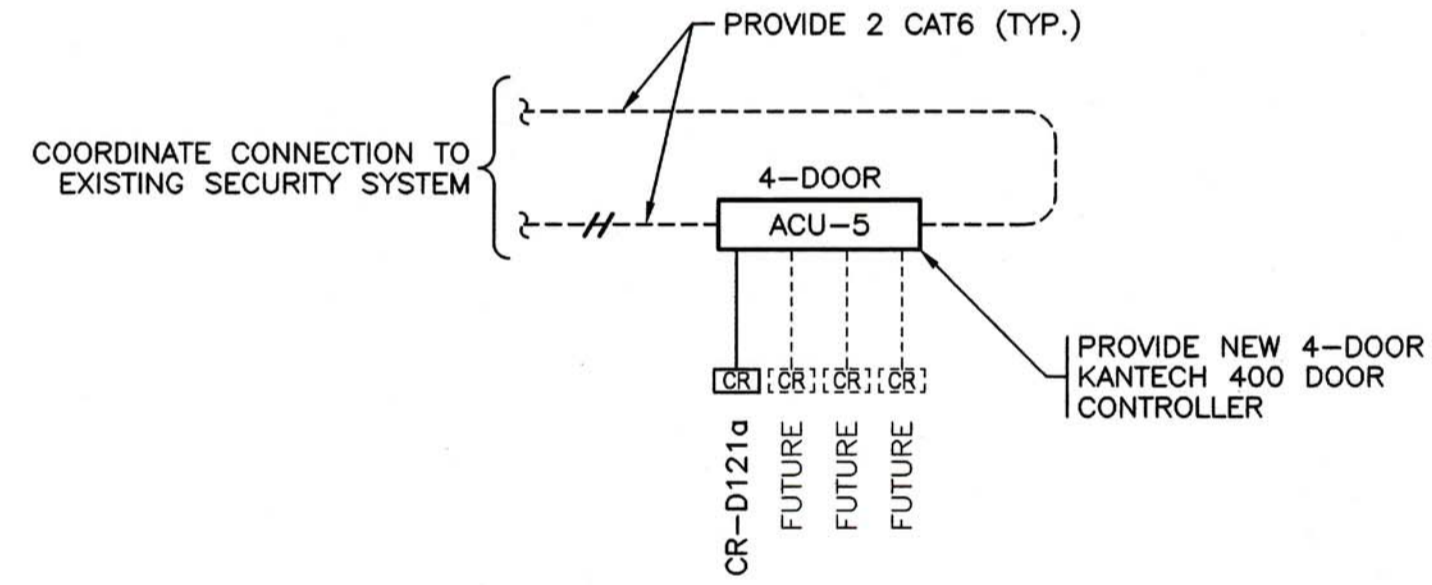
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EXISTING CIRCUIT	-	15A	1-2	15A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	3-4	15A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	5-6	15A	-	DRYING ROOM
EXISTING CIRCUIT	-	15A	7-8	15A	-	EXIST. CIRCUIT GFCI BREAKER
EXISTING CIRCUIT	-	15A	9-10	15A	-	EXIST. CIRCUIT GFCI BREAKER
EXIST. CIRCUIT GFCI BREAKER	-	30A	11-12	15A	-	EXIST. CIRCUIT GFCI BREAKER
EXIST. CIRCUIT GFCI BREAKER	-	2P	13-14	15A	-	EXIST. CIRCUIT GFCI BREAKER
EXIST. CIRCUIT GFCI BREAKER	-	15A	15-16	15A	-	DRYING ROOM
EXISTING CIRCUIT	-	15A	17-18	15A	-	WASHROOM LIGHTING
EXISTING CIRCUIT	-	15A	19-20	15A	-	EXIST. CIRCUIT GFCI BREAKER
EXISTING CIRCUIT	-	15A	21-22	15A	-	CLASSROOM LIGHTING
EXISTING CIRCUIT	-	15A	23-24	15A	-	EXIST. CIRCUIT GFCI BREAKER
EXISTING CIRCUIT	-	15A	25-26	15A	-	EXIST. CIRCUIT GFCI BREAKER
EXISTING CIRCUIT	-	15A	27-28	20A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	29-30	20A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	31-32	15A	-	AV RECEPTACLE
EXISTING CIRCUIT	-	15A	33-34	15A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	35-36	15A	-	EXISTING CIRCUIT
WASHROOM RECEPTACLE	-	20A	37-38	15A	-	EXISTING CIRCUIT
WASHROOM RECEPTACLE	-	20A	39-40	15A	-	EXISTING CIRCUIT
GENERAL RECEPTACLE	-	15A	41-42	15A	-	EXISTING CIRCUIT
TOTAL						TOTAL

MAINS: ITE NLAB PANEL 225A  
 MOUNTING: RECESSED  
 MAIN BKR.: NONE  
 VOLTS: 120/208V

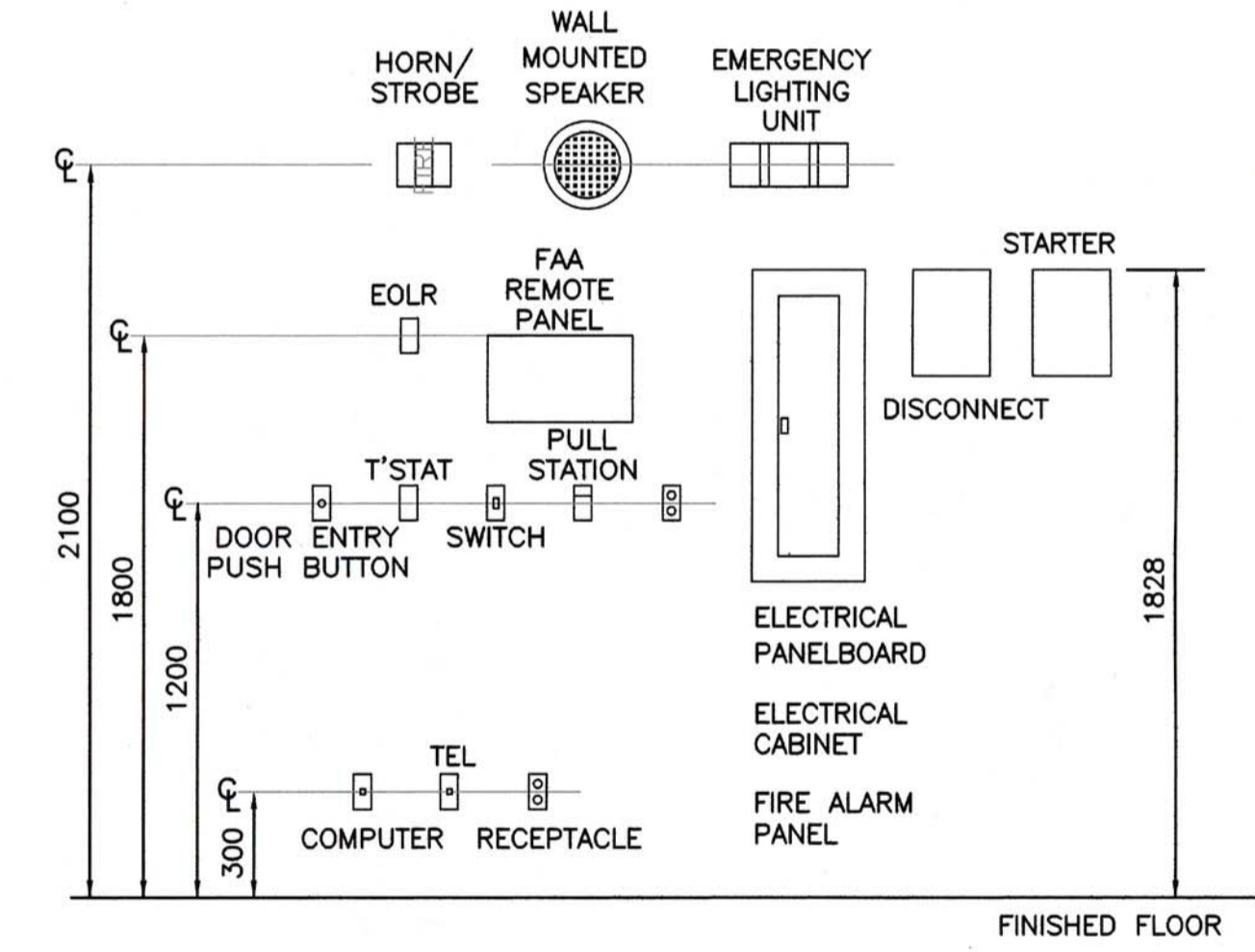
**DETAIL 1 PANEL SCHEDULES**  
 N.T.S.

DESCRIPTION	kW	BKR.	CIRCUIT NO.	BKR.	kW	DESCRIPTION
EXISTING CIRCUIT	-	15A	1-2	15A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	3-4	15A	-	EXIST. CIRCUIT GFCI BREAKER
EXISTING CIRCUIT	-	15A	5-6	15A	-	EXIST. CIRCUIT GFCI BREAKER
EXISTING CIRCUIT	-	15A	7-8	15A	-	EXIST. CIRCUIT GFCI BREAKER
EXISTING CIRCUIT	-	15A	9-10	15A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	11-12	15A	-	EXHAUST FAN
EXISTING CIRCUIT	-	15A	13-14	15A	-	CAFE RECEPTACLE
EXISTING CIRCUIT	-	15A	15-16	15A	-	CAFE RECEPTACLE
EXISTING CIRCUIT	-	15A	17-18	15A	-	CAFE RECEPTACLE
EXISTING CIRCUIT	-	15A	19-20	15A	-	CAFE RECEPTACLE
EXISTING CIRCUIT	-	15A	21-22	15A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	23-24	15A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	25-26	20A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	27-28	15A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	29-30	15A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	15A	31-32	15A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	20A	33-34	15A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	2P	35-36	15A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	30A	37-38	20A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-	3P	39-40	15A	-	EXISTING CIRCUIT
EXISTING CIRCUIT	-		41-42	15A	-	EXISTING CIRCUIT
TOTAL						TOTAL

MAINS: ITE NLAB PANEL 225A  
 MOUNTING: RECESSED  
 MAIN BKR.: NONE  
 VOLTS: 120/208V

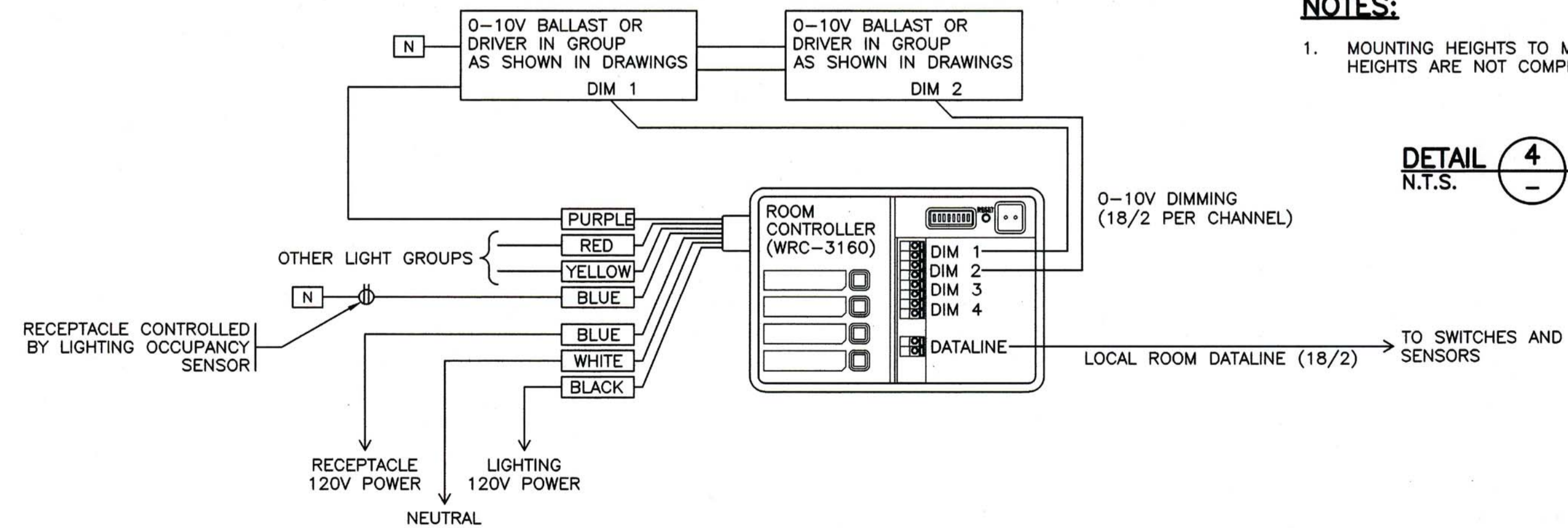


**DETAIL 2 CARD ACCESS SECURITY SYSTEM**  
 N.T.S.



**NOTES:**  
 1. MOUNTING HEIGHTS TO MATCH EXISTING, UNLESS EXISTING MOUNTING HEIGHTS ARE NOT COMPLIANT WITH CEC.

**DETAIL 4 TYP. MOUNTING HEIGHTS**  
 N.T.S.



**DETAIL 3 TYPICAL ROOM LIGHTING CONTROL MODULE**  
 N.T.S. (EXACT INTERCONNECTIONS WILL CHANGE BASED ON LOADS. REFER TO DRAWING)

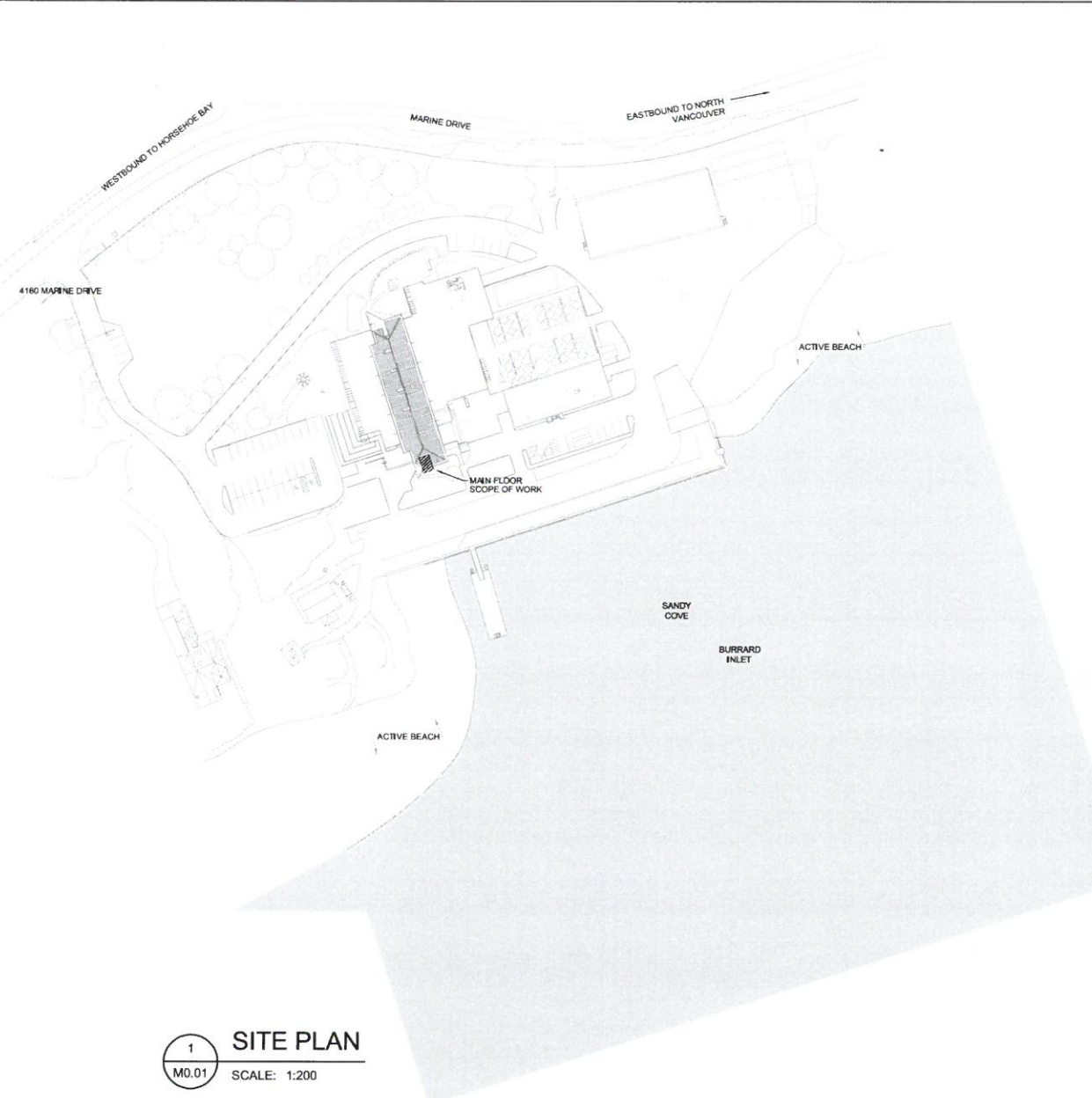
- NOTES:**
- THE INDICATED EXISTING PANEL SPACE CONTAINS AN EXISTING BREAKER THAT APPEARS TO BE SWITCHED OFF AND MAY BE SPARE. CONTRACTOR TO CONFIRM ON BEFORE ROUGH-IN WORK COMMENCES AND MUST INFORM THE PROJECT TEAM IF THE ANTICIPATED SPARE CIRCUITS CAN NOT BE USED IN THE GROUPING SHOWN.
  - CONTRACTOR MUST PERFORM POWER AND CURRENT METERING INCLUDING KW, KVA AND AMPS BOTH 3 PHASE AND 1 PHASE. THE LOAD ON THE EXISTING PANELS FOR ONE WEEK AND PROVIDE THE PEAK DEMAND LOAD ON EACH PANEL MEASURED DURING THAT TIMEFRAME FOR REFERENCE BEFORE CONNECTING NEW LOADS. PROVIDE ENGINEER WITH SUMMARY REPORT OF RESULTS INCLUDING GRAPHS.

**FISHERIES & OCEANS CANADA**  
 200-401 BURRARD STREET  
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Project title/Titre du projet  
**4160 MARINE DRIVE**  
**WEST VANCOUVER, BC V7V 1H2**  
**PSEC CLASSROOM**  
**ADDITION & RENOVATION**

Consultant Signature Only  
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Drawing title/Titre du dessin  
**ELECTRICAL DETAILS**  
 Project No./No. du projet  
**04A: 1802-002**  
 Sheet/Feuille  
**E10**  
 Revision no./La Révision no.  
**2**  
 OF XX



1 **SITE PLAN**  
M0.01 SCALE: 1:200

SYMBOL SCHEDULE			SYSTEM MONITORING		
DEMOLITION	EXISTING	NEW	DEMOLITION	EXISTING	NEW
<b>PIPEWORK</b> DOMESTIC COLD WATER (DCW) DOMESTIC HOT WATER (DHW) DOMESTIC HOT WATER REQR. (DHW-R) SANITARY VENT SANITARY SEWER ABOVE GRADE SANITARY SEWER BELOW GRADE STORM SEWER ABOVE GRADE STORM SEWER BELOW GRADE PIPE CLEAN-OUT PIPE CLEAN-OUT TO GRADE HYDRONIC HEATING WATER SUPPLY HYDRONIC HEATING WATER RETURN CHILLED WATER SUPPLY CHILLED WATER RETURN CONDENSATE DRAIN			<b>DUCTWORK</b> SUPPLY OR OUTDOOR AIR DUCT UP SUPPLY OR OUTDOOR AIR DUCT DOWN RETURN AIR DUCT UP RETURN AIR DUCT DOWN EXHAUST AIR DUCT UP EXHAUST AIR DUCT DOWN TURNING VANES ACOUSTIC INSULATION BALANCING DAMPER (BD) BACKDRAFT DAMPER (BDD) MOTORIZED DAMPER (MD) DUCT OR PIPE CAP-OFF RETURN OR EXHAUST AIR GRILLE		
<b>FITTINGS AND VALVES</b> DIRECTION OF FLOW PIPE DROP PIPE RISE PIPE TEE UP PIPE TEE DOWN PIPE UNION ISOLATION VALVE (NORMALLY OPEN) ISOLATION VALVE (NORMALLY CLOSED) CHECK VALVE BALANCING VALVE AUTOMATIC AIR VENT (AAV) TEMPERATURE GAUGE PRESSURE GAUGE THERMOMETER PUMP			<b>FIRE PROTECTION</b> PENDANT SPRINKLER HEAD SIDEWALL SPRINKLER HEAD		
<b>OUTLETS AND DRAINS</b> HOSE BIB (HB) FLOOR DRAIN (FD) FUNNEL FLOOR DRAIN			<b>EQUIPMENT TAGS</b> GRILLE TYPE NECK / GRILLE SIZE AIR VOLUME (L/s) EQUIPMENT / FIXTURE TYPE GENERAL NOTE DRAWING REVISION DETAIL NUMBER DRAWING NUMBER SECTION NUMBER DRAWING NUMBER		

MECHANICAL ABBREVIATIONS	
AD AREA DRAIN	HWS HEATING WATER SUPPLY
AFF ABOVE FINISHED FLOOR	IN INCH
ARCH ARCHITECTURAL	INV INVERT
BDD BACKDRAFT DAMPER	JS JANITOR SINK
BTUH BRITISH THERMAL UNIT / HOUR	KW KILOWATT
CD CONTROL DAMPER	KS KITCHEN SINK
CFM CUBIC FEET PER MINUTE	LAV LAVATORY
CLG CEILING	LAT LEAVING AIR TEMPERATURE
CO CLEANOUT	LBS POUNDS
CONN CONNECTION	LWT LEAVING WATER TEMPERATURE
CW COMPLETE WITH	MAU MAKE-UP AIR UNIT
CONT CONTINUATION	MAX MAXIMUM
DB DRY BULB	MD MOTORIZED DAMPER
CTE CONNECT TO EXISTING	MECH MECHANICAL
DCW DOMESTIC COLD WATER	MIN MINIMUM
DDC DIRECT DIGITAL CONTROL	NC NOT IN CONTRACT
DEG DEGREE	NC NOISE CRITERIA NORMALLY CLOSED
DHW DOMESTIC HOT WATER	NO NORMALLY OPEN
DIA DIAMETER	NTS NOT TO SCALE
DN DOWN	OIA OUTDOOR AIR
DWG DRAWING	PS POUNDS PER SQUARE INCH
EIA EXHAUST AIR	RA RETURN AIR
EAT ENTERING AIR TEMPERATURE	RF RETURN FAN
EF EXHAUST FAN	RM ROOM
EFF EFFICIENCY	RPM REVOLUTIONS PER MINUTE
ELEC ELECTRICAL	RWL RUN WATER LEADER
ENT ENTERING	SIA SUPPLY AIR
ESP EXTERNAL STATIC PRESSURE	SF SUPPLY FAN
EWI ENTERING WATER TEMPERATURE	SH SHOWER
EXH EXHAUST	SS STAINLESS STEEL
F FIRE MAIN	SP STATIC PRESSURE
FD FLOOR DRAIN	SPEC SPECIFICATION
FE FIRE EXTINGUISHER	T/A TRANSFER AIR
FLA FULL LOAD AMPS	TAD TRANSFER AIR DUCT
FLR FLOOR	THRU THROUGH
FRM FEET PER MINUTE	TYP TYPICAL
FT FEET/FOOT	UR URINAL
GAL GALLONS	V VENT
GPM GALLONS PER MINUTE	VFD VARIABLE FREQUENCY DRIVE
GWB GYPSUM WALL BOARD	WB WET BULB
HB HOSE BIB	WC WATER CLOSET
HWR HEATING WATER RETURN	

- MECHANICAL GENERAL NOTES**
- CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND VERIFYING ACTUAL ON-SITE CONDITIONS PRIOR TO ANY WORK DONE.
  - CONTRACTOR TO INCLUDE AS A PART OF THE BID ALL COSTS ASSOCIATED WITH CUTTING AND PATCHING THAT IS REQUIRED TO INSTALL ALL NEW MECHANICAL SYSTEMS AS REQUIRED TO MEET THE SITE CONDITIONS AS SHOWN ON THE DRAWINGS. PATCHING SHALL MEET THE AESTHETIC CONDITIONS WHICH WAS THE CONDITION PRIOR TO ANY CUTTING BEING PERFORMED.
  - CONTRACTOR TO PROPERLY SEAL AND REPAIR ANY AND ALL DAMAGE THAT IS A RESULT OF REMOVAL OR DEMOLITION OF MECHANICAL EQUIPMENT. THIS INCLUDES BUT IS NOT LIMITED TO WALL, DOOR, CEILING, ETC.
  - THE EXISTING FACILITIES MECHANICAL SYSTEMS SHALL REMAIN OPERATIONAL DURING THE CONSTRUCTION AND RENOVATION PERIOD. CONTRACTOR TO COORDINATE CONSTRUCTION ACTIVITIES AND PHASING WITH OWNER TO MINIMIZE DISRUPTIONS TO OWNERS OPERATIONS AND ACCESS, AND TO ENSURE SAFETY OF THE USERS. PROVIDE ALL MEASURES REQUIRED TO PREVENT HAZARDS TO PEOPLE AND DAMAGE TO ITEMS REMAINING INCLUDING BUT NOT LIMITED TO DAMAGE FROM DUST AND HEAT.
  - THE MECHANICAL SYSTEM SHALL CONSIST OF ALL WORK SHOWN ON THE DRAWINGS, DIAGRAMS, SCHEMATICS AND AS DESCRIBED IN THE SPECIFICATIONS.
  - THE MECHANICAL PLANS ARE DIAGRAMMATIC IN NATURE AND DO NOT ATTEMPT TO SHOW ALL REQUIRED OFFSETS. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL CONSTRUCTION DETAILS.
  - COORDINATE THE DRAWINGS WITH THE SPECIFICATIONS AND IN CASES WHERE CONFLICTS OCCUR THE MOST STRINGENT REQUIREMENT SHALL APPLY.
  - CONTRACTOR TO COORDINATE ALL MECHANICAL WORK WITH THAT OF OTHER TRADES TO ENSURE PROPER AND ADEQUATE INTERFACE WITH THE WORK OUTLINED FOR THIS PROJECT.
  - CONTRACTOR TO PROVIDE NEC (NATIONAL ELECTRICAL CODE) CLEARANCE HORIZONTAL AND VERTICAL REQUIREMENTS FOR ALL INSTALLED EQUIPMENT. OFFSET MECHANICAL WORK AS REQUIRED TO MEET THIS REQUIREMENT.
  - INSTALLING CONTRACTOR TO PROVIDE SEISMIC CALCULATIONS WITH A STRUCTURAL ENGINEERING STAMP AS REQUIRED BY THE BRITISH COLUMBIA PROVINCIAL BUILDING CODE.
  - PROVIDE CONCEALED DAMPER REGULATORS FOR ALL VOLUME DAMPERS OVER INACCESSIBLE CEILING AND SOFFITS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
  - CONTRACTOR TO ALLOW AND PROVIDE FOR METAL DUCTWORK TRANSITIONS BETWEEN ALL EQUIPMENT AND DUCT CONNECTIONS.
  - ALL EQUIPMENT CONNECTIONS TO DUCTWORK SHALL HAVE A MIN. OF 4 INCH OF REINFORCED CANVAS FLEXIBLE DUCTWORK FOR VIBRATION ISOLATION.

MECHANICAL DRAWING LIST		
DRAWINGS NO.	DESCRIPTION	SCALE
M0.01	SITE PLAN, GENERAL NOTES AND SYMBOL SCHEDULES	1:200
M0.02	MECHANICAL SCHEDULE	NOT TO SCALE
M1.01	FOUNDATION PLAN	1:100
M1.02	PLUMBING PLAN	1:100
M2.01	FIRE PROTECTION PLAN	1:100
M3.01	HVAC PLAN	1:100



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Revision / Révision	Description / Description	Date / Date

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Project # / N° du projet  
**4160 MARINE DRIVE**  
**WEST VANCOUVER, BC V7V 1H2**

**PSEC - CLASSROOM**  
**ADDITION & RENOVATION**

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**KS**  
 Drawn by / Dessiné par  
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PWGSC Regional Manager, Architectural and Engineering Services / Gestionnaire régional, services d'architecture et de génie TPSCC

Drawing # / N° du dessin

**SITE PLAN, GENERAL NOTES & SYMBOL SCHEDULES**

Project No. / No. du projet  
 Sheet / feuille  
**M0.01**  
 OF 6  
 Revision no. / No. de révis.

**PLUMBING FIXTURE SCHEDULE**

**WC-1 FLOOR MOUNTED WATER CLOSET**

1) BOWL: AMERICAN STANDARD MADERA FLOWSE RIGHT HEIGHT ELONGATED MODEL 3461.001.020 WHITE FINISH, METEORUS CHINA, SIPHON JET FLUSH ACTION, NOMINAL DIMENSIONS: 350X718X419, 26 KG, OPERATES IN RANGE 4.2L TO 6 L, CW FLOOR FLANGE WITH ALL BRASS BOLTS AND WITH RUBBER GASKET

2) FLUSHOMETER: SLOAN ROYAL OPTIMA 111 ES-L29-S-CP EXPOSED FLUSHOMETER, 4.8 LPF FACTORY SET FLOW, INFRARED SENSOR, SENSOR LOCATED ABOVE TOILET, CW 102MM SQUARE ELECTRICAL BOX FOR MOUNTING SENSOR PLATE, CW EL-154 BOX MOUNTED HARDWARE TRANSFORMER

3) TOILET SEAT: CENTOCO 500ST5TS.001 HEAVY DUTY FOR ELONGATED BOWL, OPEN FRONT, SOLID PLASTIC

**WC-2 FLOOR MOUNTED WATER CLOSET (BARRIER FREE)**

1) BOWL: AMERICAN STANDARD MADERA FLOWSE RIGHT HEIGHT ELONGATED MODEL 3461.001.020 WHITE FINISH, METEORUS CHINA, SIPHON JET FLUSH ACTION, NOMINAL DIMENSIONS: 350X718X419, 26 KG, OPERATES IN RANGE 4.2L TO 6 L, CW FLOOR FLANGE WITH ALL BRASS BOLTS AND WITH RUBBER GASKET

2) FLUSHOMETER: SLOAN ROYAL OPTIMA 111 ES-L29-TM-HW 4.8 LPF FLUSHOMETER, POLISHED CHROME FINISH, SINGLE FLUSH, TRUE MECHANICAL OVERRIDE, HARDWIRED, SENSOR OPERATED, ROYAL EXPOSED FLUSHOMETER, CW EL-154 BOX MOUNTED HARDWARE TRANSFORMER

3) TOILET SEAT: CENTOCO 500ST5TS.001 EXTRA HEAVY DUTY FOR ELONGATED BOWL, OPEN FRONT SOLID PLASTIC WITH COVER

**UR-1 WALL MOUNTED URINAL**

1) BOWL: TOTO UT105U URINAL WITH 34" TOP SPUD INLET, INTEGRAL TRAP, CW LOW PROFILE DOME STRAINER, WASHOUT FLUSH ACTION, METEORUS CHINA, TH3017 STAINLESS STEEL, URINAL DRAIN COVER

2) FLUSHOMETER: TEUTONIA 12PCP 0.125 GPF SLUSH VALVE, WASHOUT FLUSH ACTION

**LAV-1 WALL MOUNTED LAVATORY**

1) FAUCET: SLOAN BASYS EFX 100, SENSOR HANDWASHING FAUCET WITH BACKUP BATTERY, DOUBLE INFRARED SENSOR, 1.9 LPM, VAMCAL RESISTANT, CW EAF 37 TRANSFORMER  
PROVIDE OPEN GRID DRAIN, CAST BRASS ONE PIECE TOP 17 GA TUBULAR 32 MM TAILPIECE, PROVIDE CHROME-PLATED FINISH P-TRAP, HEAVY CAST BRASS ADJUSTABLE BODY, WITH SLP NUT, 32 MM SIZE, WITH CLEANOUT, SHALLOW WALL FLANGE AND SEAMLESS TUBULAR WALL BLEND

**SH-1 SHOWER**

1) SHOWER TRIM: AMERICAN STANDARD T431.730.002 BOULEVARD THERMOSTATIC SHOWER TRIM METAL WALL PLATE POLISHED CHROME FINISH, 201 MM DIA TRIM FACE PLATE, TEMPERATURE CONTROL, SINGLE LEVER HANDLE, CW RS10 CERAMIC THERMOSTATIC IN WALL SHOWER ROUGH VALVE

2) SHOWERHEAD: AMERICAN STANDARD 1660.650.002 3 FUNCTION SHOWER HEAD, POLISHED CHROME FINISH 9.5 LPM MAX FLOW RATE CW 1660.740.002 WALL MOUNT SHOWER ARM, BRASS CONSTRUCTION, 140 MM LONG WITH 45 ANGLE, POLISHED CHROME FINISH

3) DRAIN: SHUTTER-KERD LINE DRAIN, BRUSHED STAINLESS STEEL, LINEAR FLOOR DRAIN CONSISTING OF A FORMED STAINLESS STEEL CHANNEL BODY AND GRATE ASSEMBLY THAT CAN BE SEAMLESSLY ADJUSTED OR STONE COVERING THICKNESS FROM 3 MM TO 25 MM, THE CHANNEL BODY FEATURES 57 WIDE, 50 MM NO HUB CENTRE DRAIN OUTLET AND 22 MM WIDE BONDING FLANGE LAMINATED WITH A COLLAR MADE OF SCHLUTER WATERPROOFING MEMBRANE, CHANNEL BODY MATERIAL IS SS AND LENGTH AT 1700MM, BRUSHED SS 304 GRATE WITH SQUARE PERFORATIONS AND LOCKING MECHANISM

**FD-1 FLOOR DRAIN**

1) WATTS #FD-100-C-FC EPOXY COATED CASTIRON 7"Ø FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE MEMBRANE CLAMP WITH PRIMARY AND SECONDARY WEEP HOLES, 1/4" THICK ADJUSTABLE NICKEL BRONZE STRAINER WITH SURFACE MEMBRANE CLAMP

**KS-1 KITCHEN SINK**

1) BASIN: FRAMME SINGLE COMPARTMENT UNDER MOUNT BASIN UC5600BP-1, 18 GAUGE, TYPE 304 STAINLESS STEEL, UNDERCOATED TO REDUCE CONDENSATION AND RESONANCE, INCLUDES WASTE FITTING, CUTOUT TEMPLATE AND INSTALLATION HARDWARE

2) FAUCET: MOEN MODEL 7565E SERIES SINGLE HANDLE HIGH ARC PULLDOWN KITCHEN FAUCET, 5.7 LPM

**DIFFUSERS AND GRILLES**

EQUIPMENT TAG	DESCRIPTION/TYPE	MANUFACTURER	SERVICE	MODEL NUMBER	NOTES
SD-1	LINEAR SLOT DIFFUSER	EH PRICE	S/A	1500SDS1001/2/ZZ/B12	1,2,3,4,5
SD-2	SQUARE PLAQUE DIFFUSER	EH PRICE	S/A	1500SDS1001/2/ZZ/B12	1,2,3,4
L-1	EXHAUST FAN LOUVER	EH PRICE	E/A	DE439	6,7
DG-1	TRANSFER AIR DOOR GRILLE	EH PRICE	T/A	ATG1/C	6
R-1	RETURN AIR GRILLE	EH PRICE	R/A	530FLAB12	1,4

**NOTES:**

- PROVIDE DIFFUSERS AND GRILLES WITH BORDER STYLES THAT ARE COMPATIBLE WITH ADJACENT WALLS AND CEILING SYSTEMS. REFER TO ARCHITECTURAL DRAWINGS.
- NC LEVELS BASED ON OCTAVE BANDS 2-7 SOUND POWER LEVELS MINUS A ROOM ABSORPTION OF 10 DB, MEASURED PER ASHRAE 70-91.
- CONTRACTOR TO REFER TO MECHANICAL AND ARCHITECTURAL DETAILS FOR SUPPLY AND INSTALLATION OF LINEAR GRILLE.
- CONTRACTOR TO REFER TO ARCHITECTURAL, ELECTRICAL AND FIRE PROTECTION CEILING LAYOUTS WHEN INSTALLING DIFFUSERS AND GRILLES TO PREVENT CONFLICTION
- CW 1500SDS1001/2/150
- CUSTOM COLOUR OF PRODUCT TO BE SELECTED BY THE ARCHITECT DURING THE SHOP DRAWINGS SUBMITTAL PROCESS
- CW BRD & INLET SCREEN

**FANS SCHEDULE**

EQUIPMENT TAG	QTY	SERVICE	LOCATION	TYPE	MANUFACTURER	MODEL	AIR FLOW (LPS)	E. S. P. (PA)	FAN (RPM)	ELECTRICAL (V/PHC)	DRIVE TYPE	SOUND LEVEL (SONES)	WEIGHT (KG)	NOTES
EF-1	1	ELECTRICAL ROOM	ELECTRICAL ROOM	IN-LINE	GREENHECK	SQ-99V/G	150	65	1210	115/60/1	DIRECT	4.9	25.0	ALL

**NOTES:**

- CW VARI-GREEN MOTOR SPEED CONTROL ON EXHAUST FAN
- PROVIDE LOW VOLTAGE HUMIDISTAT
- CW FACTORY MOUNTED DISCONNECT

**MECHANICAL MOTORLIST**

EQUIP. TAG	EQUIPMENT DESCRIPTION	LOCATION	EQUIPMENT					DISCONNECT					STARTER					CONTROL					NOTES	
			SUPPLIED	H.P.	KW	MCA	FLA	VOLTAGE	PHASE	SUPPLIED	INSTALLED	WRED	LOCATION	TYPE	SUPPLIED	INSTALLED	WRED	LOCATION	TYPE	SUPPLIED	INSTALLED	WRED		
	PLUMBING FIXTURES																							
WC-1	FLUSH VALVE	WASHROOM	M					24	1															1
WC-2	FLUSH VALVE	WASHROOM	M					24	1															1
LAV-1	FAUCET	WASHROOM	M					24	1															1
	FANS																							
EF-1	DRYER ROOM EXHAUST FAN	DRYER ROOM	M	FRAC				115	1	M	M	M	1	MAN	E	E	E	1	H	M	M	M		

**SUPPLIER / INSTALL / WIRE CODES:**

M \* MECHANICAL  
E \* ELECTRICAL  
G \* GENERAL CONTRACTOR

**STARTER CODES:**  
MAN \* MANUAL STARTER  
MAG \* MAGNETIC STARTER WITH HOA SWITCH W/ AUX. CONTACTS  
MRR \* MOTOR RATED RELAY, 24 VAC COIL & MOTOR PROTECTION SWITCH  
PCS \* PACKAGED CONTROL SYSTEM  
VSD \* VARIABLE SPEED DRIVE  
RVS \* REDUCED VOLTAGE STARTER  
WS \* WALL SWITCH  
CP \* CONTROL PANEL

**CONTROL DEVICE CODES:**  
BMS \* BLDG MANAGEMENT SYSTEM  
ES \* END SWITCH  
ET \* LINE VOLTAGE T'STAT  
FA \* FIRE ALARM  
FS \* FLOW SWITCH  
GS \* GAS SENSOR  
H \* HUMIDITY SENSOR  
I \* INTERLOCK, SEE NOTES  
LS \* LEVEL SWITCH  
PS \* PRESSURE SWITCH  
TC \* TIME CLOCK  
T \* LOW VOLTAGE T'STAT OR SENSOR  
TS \* TAMPER SWITCH  
VS \* VARIABLE SPEED SWITCH  
WS \* WALL SWITCH  
FAP \* FIRE ALARM PANEL  
INT \* INTEGRAL CONTROL  
PCS \* PACKAGED CONTROL SYSTEM

**LOCATION CODES:**  
1 \* AT OR NEAR MOTOR  
2 \* MOTOR CONTROL CENTRE  
3 \* EQUIPMENT ROOM  
4 \* ELECTRICAL ROOM  
5 \* AS SHOWN ON DRAWINGS

**MISCELLANEOUS CODES:**  
FFCP \* FIRE FIGHTERS CONTROL PANEL

**NOTES:**

- ELECTRICAL TO PROVIDE 120 V TO TRANSFORMER

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4160 MARINE DRIVE  
WEST VANCOUVER, BC V7V 1H2

**PSEC - CLASSROOM ADDITION & RENOVATION**

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Designed by/Concept par **KS**

Drawn by/Dessiné par **AT**

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

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**MECHANICAL SCHEDULE**

Project No./No. du projet

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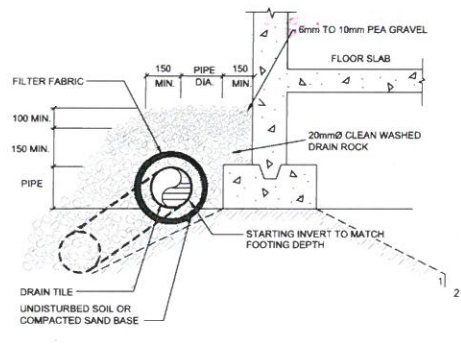


**PLUMBING RENOVATION NOTES:**

1. CONNECT NEW PLUMBING FIXTURES SANITARY TO EXISTING SANITARY BRANCHES REFER TO RENOVATION DRAWING.
2. CONTRACTOR TO REUSE EXISTING CORES THROUGH SLAB WHERE POSSIBLE. IF NEW CORES ARE REQUIRED CONTRACTOR TO SCAN EXISTING SLAB AND RECEIVE APPROVAL OF LOCATIONS FROM DESIGN TEAM PRIOR STARTING WORK.
3. REMOVAL OF EX. FLOOR DRAINS WILL NEED CONCRETE TO BE REMOVED AND PATCHED. CONTRACTOR TO ACCOUNT FOR ALL WORK DONE ON THE CONCRETE FOR REPLACING EX. PLUMBING FIXTURES WITH NEW. CONTRACTOR TO PATCH FLOOR AND MAKE GOOD.

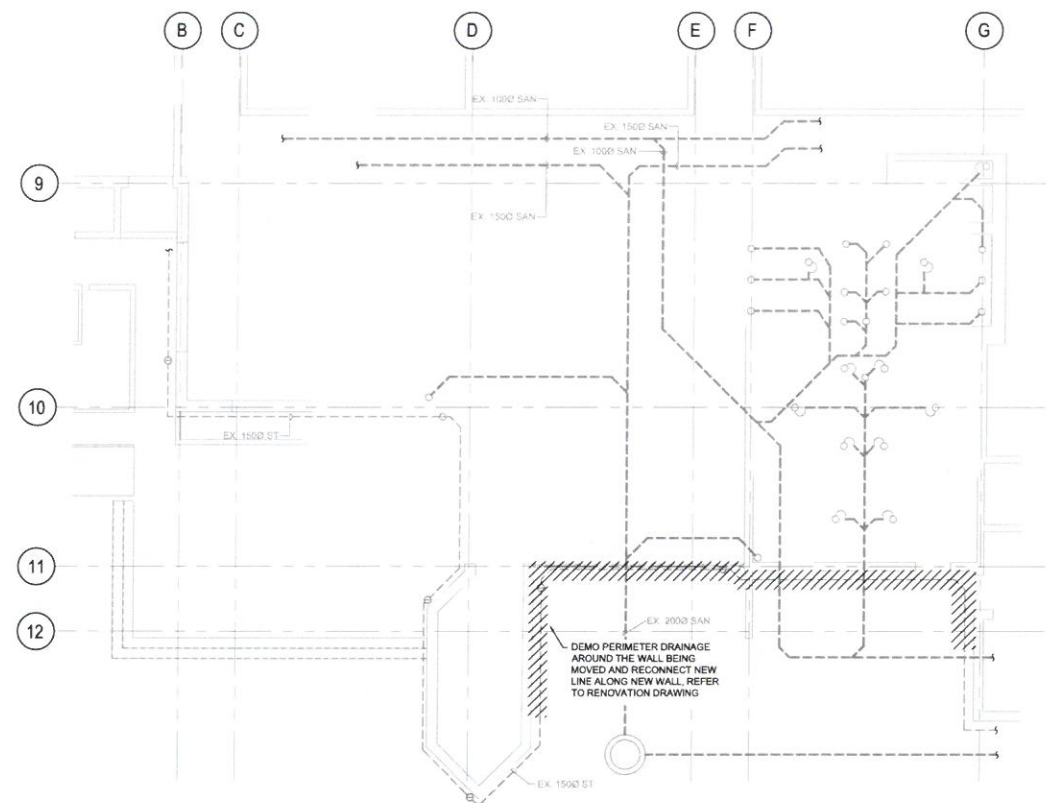
**KEY NOTES:**

- (1) CONTRACTOR TO MATCH SLOPE TO EXISTING, REFER DETAIL 3M1.01.

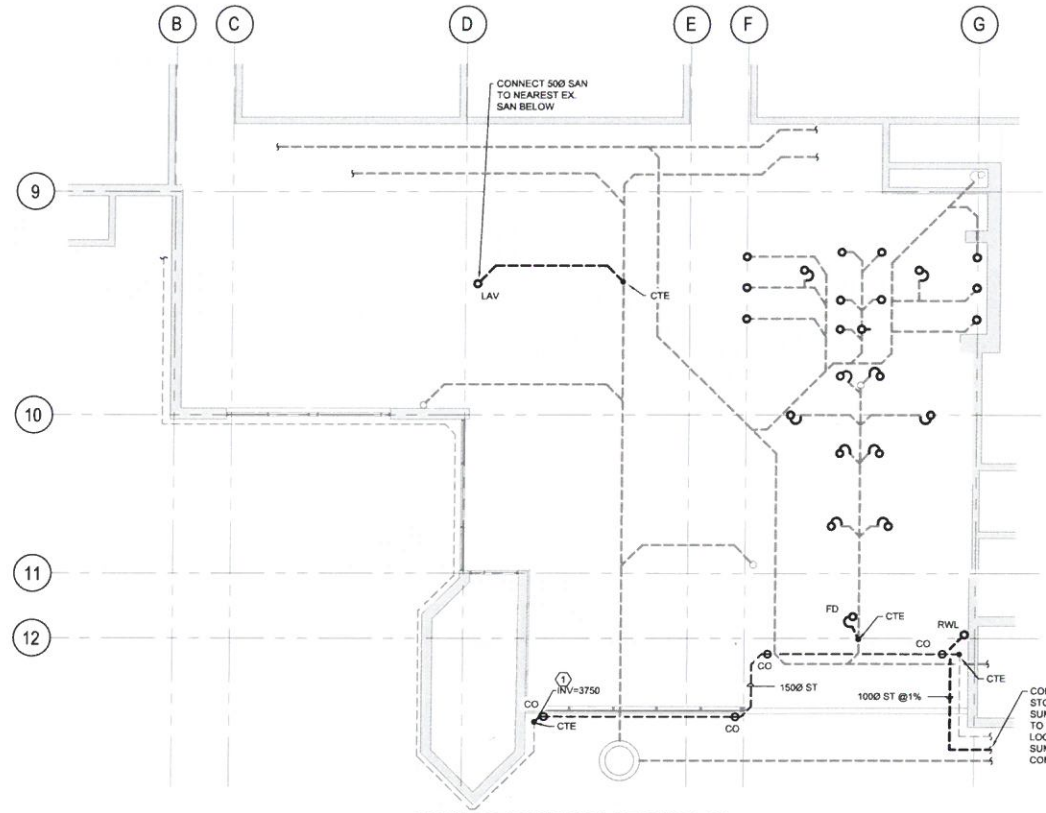


**NOTE**  
PEA GRAVEL AND DRAIN ROCK SHALL BE CARRIED OVER TO FOUNDATION WALL AND FOOTINGS WHERE DRAIN TILES ARE SHOWN.

**3 PERIMETER DRAIN TILE DETAIL**  
SCALE: NOT TO SCALE



**1 FOUNDATION DEMOLITION PLAN**  
SCALE: 1:100



**2 FOUNDATION RENOVATION PLAN**  
SCALE: 1:100



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Revision/Revision	Description/Description	Date/Date

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Project title/Titre du projet  
**4160 MARINE DRIVE  
WEST VANCOUVER, BC V7V 1H2**  
**PSEC - CLASSROOM  
ADDITION & RENOVATION**

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**FOUNDATION PLAN**

Project No./No. du projet Sheet/feuille Revision no./Lo. Révision no.

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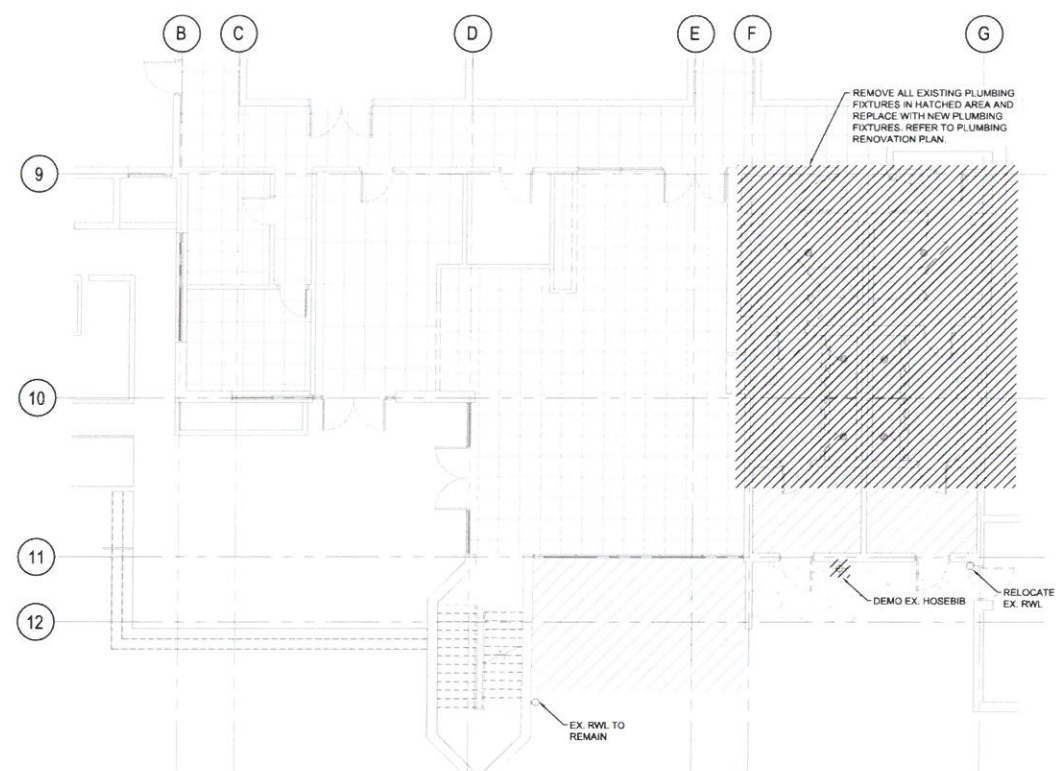
**PLUMBING DEMOLITION NOTES:**

1. ALL PLUMBING FIXTURES IN SCOPE OF WORK TO BE REMOVED AND REPLACED WITH NEW. REFER TO PLUMBING FIXTURE SCHEDULE AND PLUMBING RENOVATION PLAN. CONTRACTOR TO CAP EX. DOW & DRW LINES TO EACH FIXTURE FOR CONNECTING FUTURE PLUMBING FIXTURES DURING RENOVATION PHASE.

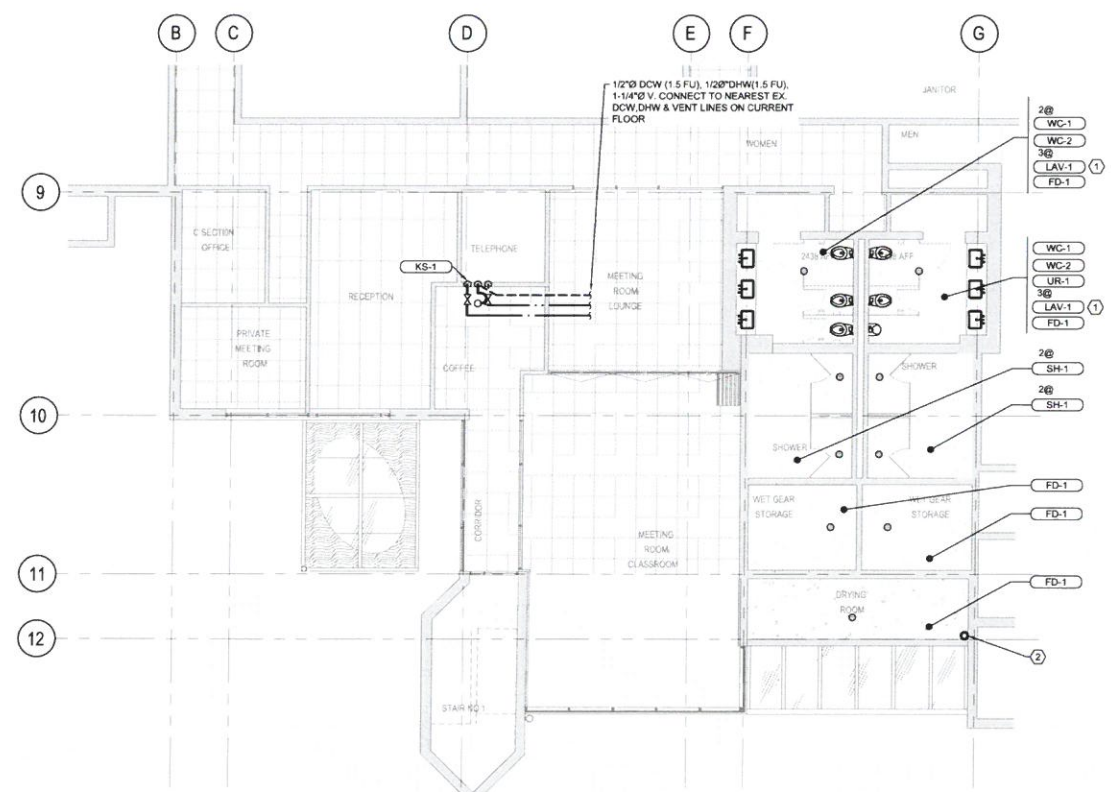
**KEY NOTES:**

① LAVATORY BASIN PROVIDED BY ARCHITECT. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR MAKING ALL CONNECTIONS TO LAVATORY INCLUDING BUT NOT LIMITED TO FAUCET AND WASTE PIPING

② RELOCATED RWL TO RUN THROUGH CORNER OF DRYING ROOM AND TO BE CONNECTED TO NEW STORM LINE IN FOUNDATION. PIPE MATERIAL TO BE PVC.



1 PLUMBING DEMOLITION PLAN  
SCALE: 1:100



2 PLUMBING RENOVATION PLAN  
SCALE: 1:100



Revision/Revision	Description/Description	Date/Date
ISSUED FOR TENDER		2018-06-12

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Project title/Titre du projet  
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 ADDITION & RENOVATION**

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**PLUMBING PLAN**

Project No./No. du projet	Sheet/feuille	Revision no./ La. Révision no.
	<b>M1.02</b>	
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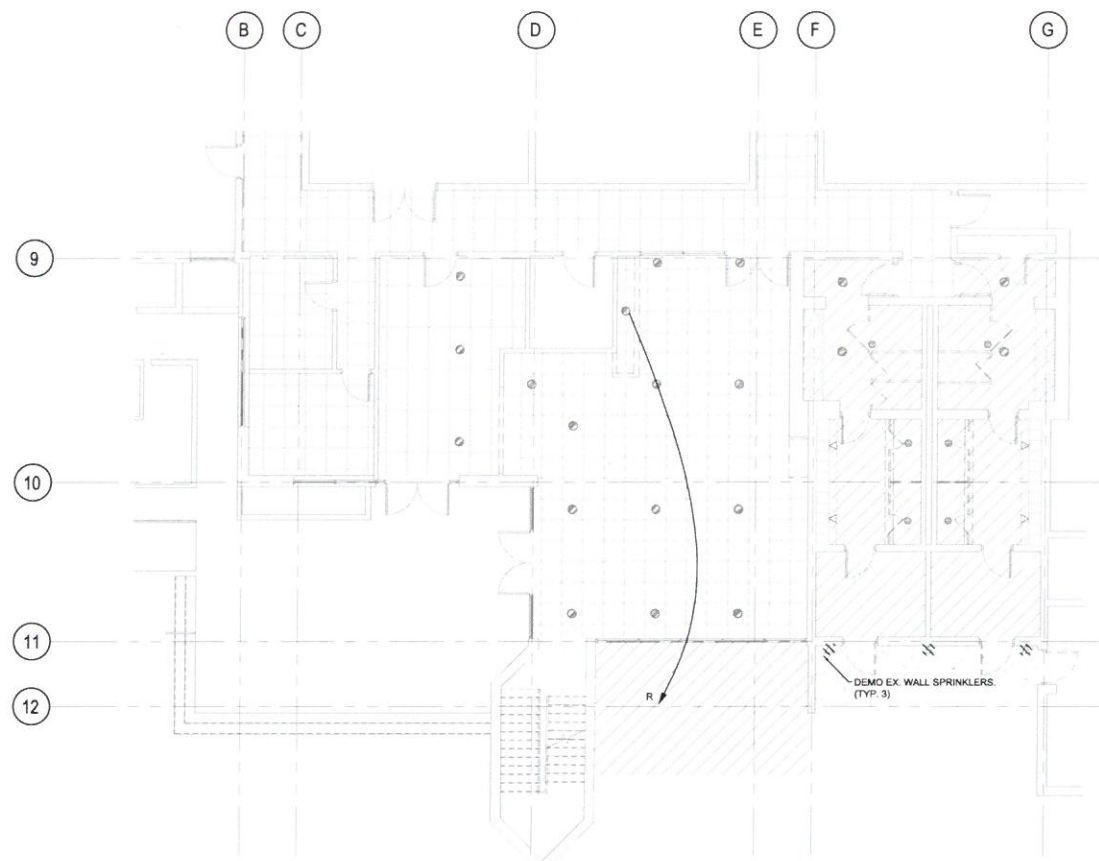




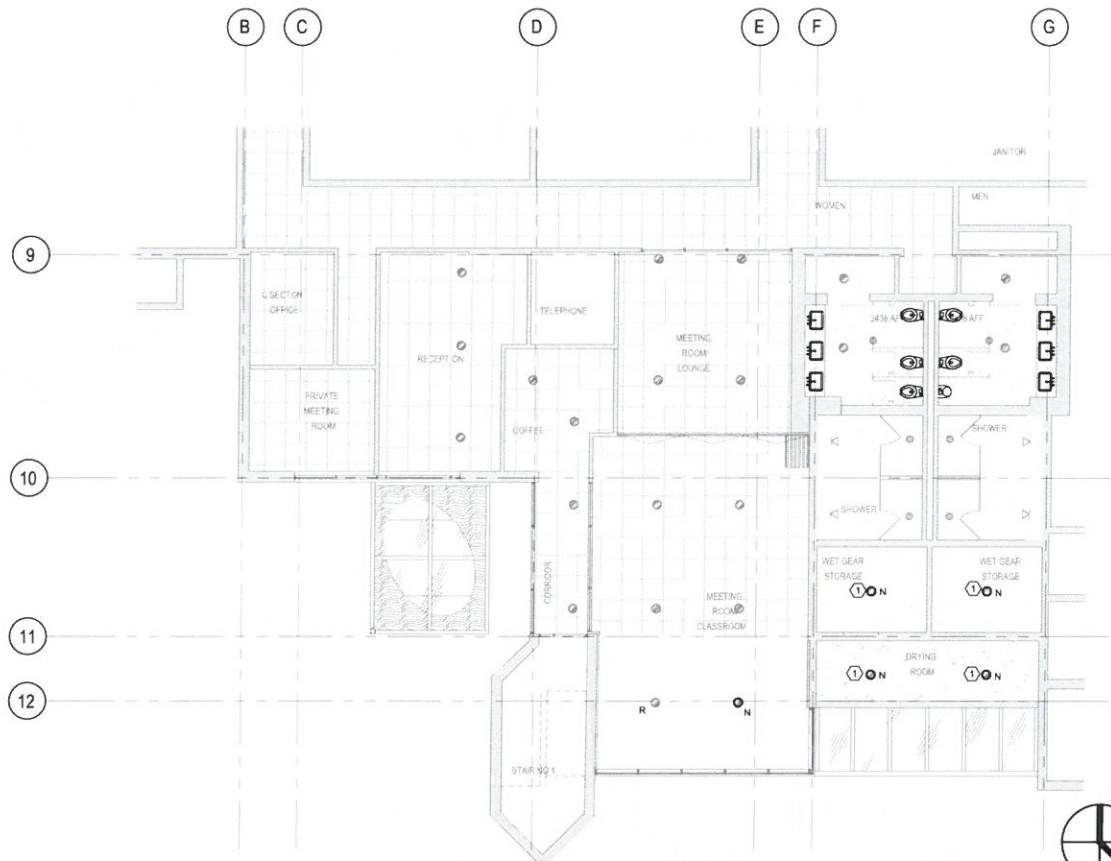
- FIRE PROTECTION GENERAL NOTES:**
1. CONTRACTOR TO ENSURE PROVISIONS ARE MADE FOR OPERATING FIRE PROTECTION SYSTEM WHILE WORK IS BEING COMPLETED.
  2. ALL NEW SPRINKLER HEADS AND RELOCATED SPRINKLER HEADS ARE TO SHOW NEW AND RELOCATED LOCATIONS ONLY. SPRINKLER CONTRACTOR TO PROVIDE ALL NEW SPRINKLER HEADS AND LAYOUT TO BE IN ACCORDANCE W/ NFPA 13. NEW SPRINKLER HEADS TO MATCH EXISTING UNLESS OTHERWISE INDICATED.
  3. MODIFY SPRINKLER SYSTEM TO SUIT NEW LAYOUT AND TO ENSURE COMPLIANCE WITH CODE.
  4. SPRINKLER ENGINEER TO COORDINATE NEW AND RELOCATED SPRINKLER HEAD LOCATIONS WITH HVAC, LIGHTING AND ARCHITECTURAL LAYOUT.
  5. PROVIDE AND INSTALL FIRE EXTINGUISHERS TO MEET THE REQUIREMENTS OF NFPA 10 AND LOCAL FIRE COMMISSIONER.
  6. ANY ADDITIONAL SPRINKLER HEADS THAT MAY BE REQUIRED TO COMPLETE FINAL DESIGN (NFPA 13 REQUIREMENTS) ARE CONSIDERED TO BE IN THE SCOPE OF WORK. ADDING OR REMOVING SPRINKLER HEADS ARE NOT CONSIDERED TO BE A CHANGE OF CONTRACT AMOUNT.
  7. SYSTEM DESIGN TO LIGHT HAZARD OCCUPANCY, MAXIMUM SPRINKLER SPACING OF 225 SQ FT. PER SPRINKLER.
  8. ALL SPRINKLER HEADS TO BE CENTRED ON THE CEILING TILES.

- KEY NOTES:**
- ① NEW SPRINKLER TO BE CORROSION RESISTANT

- SPRINKLER HEAD LEGEND**
- EXISTING PENDENT HEAD
  - <sub>R</sub> RELOCATED PENDENT HEAD
  - <sub>N</sub> NEW PENDENT HEAD TO MATCH EXISTING



**1 FIRE PROTECTION DEMOLITION PLAN**  
SCALE: 1:100



**2 FIRE PROTECTION RENOVATION PLAN**  
SCALE: 1:100

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**SERVICES IMMOBILIERS**  
 Région de Pacifique

Consultant  
**AME Group**  
 consulting mechanical engineers



Revision/Revision	Description/Description	Date/Date

Client/client  
**FISHERIES & OCEANS CANADA**  
 200-401 BURRARD STREET  
 VANCOUVER, BC V6C 3R2

Project title/Titre du projet  
**4160 MARINE DRIVE WEST VANCOUVER, BC V7V 1H2**  
**PSEC - CLASSROOM ADDITION & RENOVATION**

Consultant Signature Box Only  
 Designed by/Concept par **KS**  
 Drawn by/Dessine par **AT**  
 PWGSC Project Manager/Administrateur de Projets TPSSC  
 PWGSC Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architectural et de génie, TPSSC

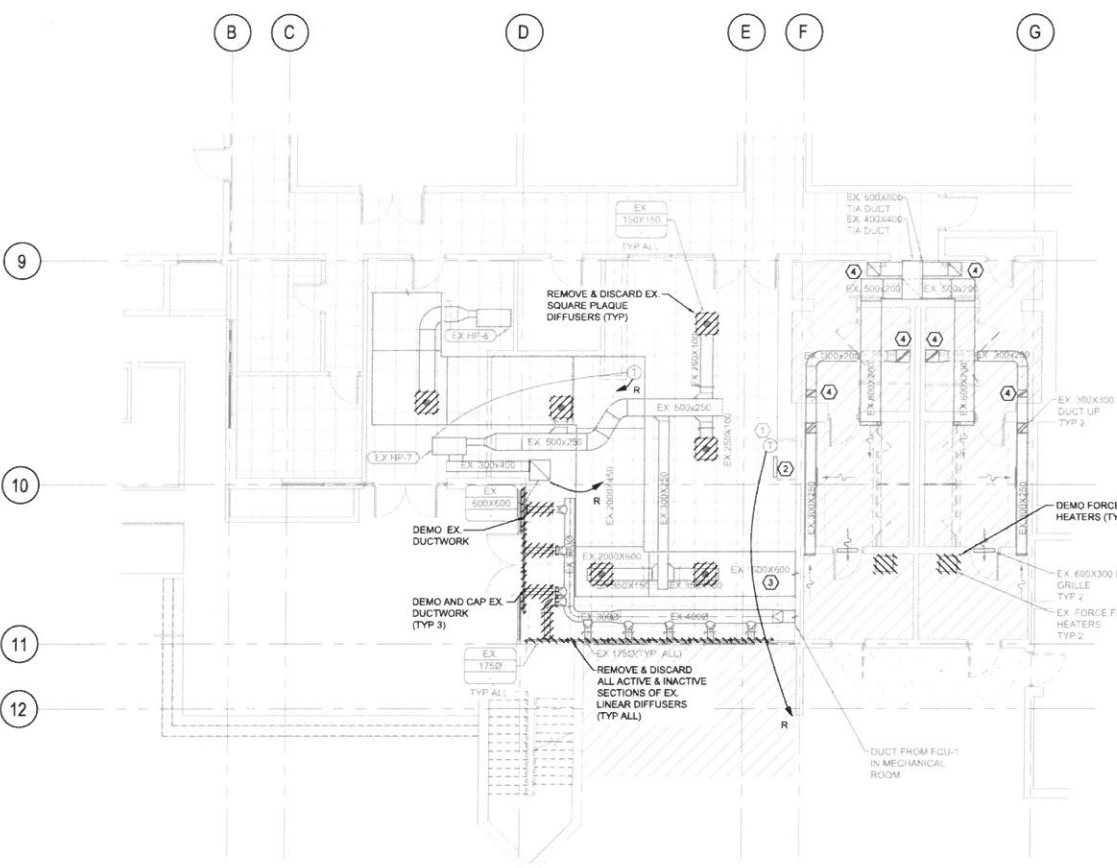
Drawing title/Titre du dessin  
**FIRE PROTECTION PLAN**

Project No./No. du projet  
 Sheet/Feuille  
**M2.01**  
 OF 6  
 Revision no./La Révision no.

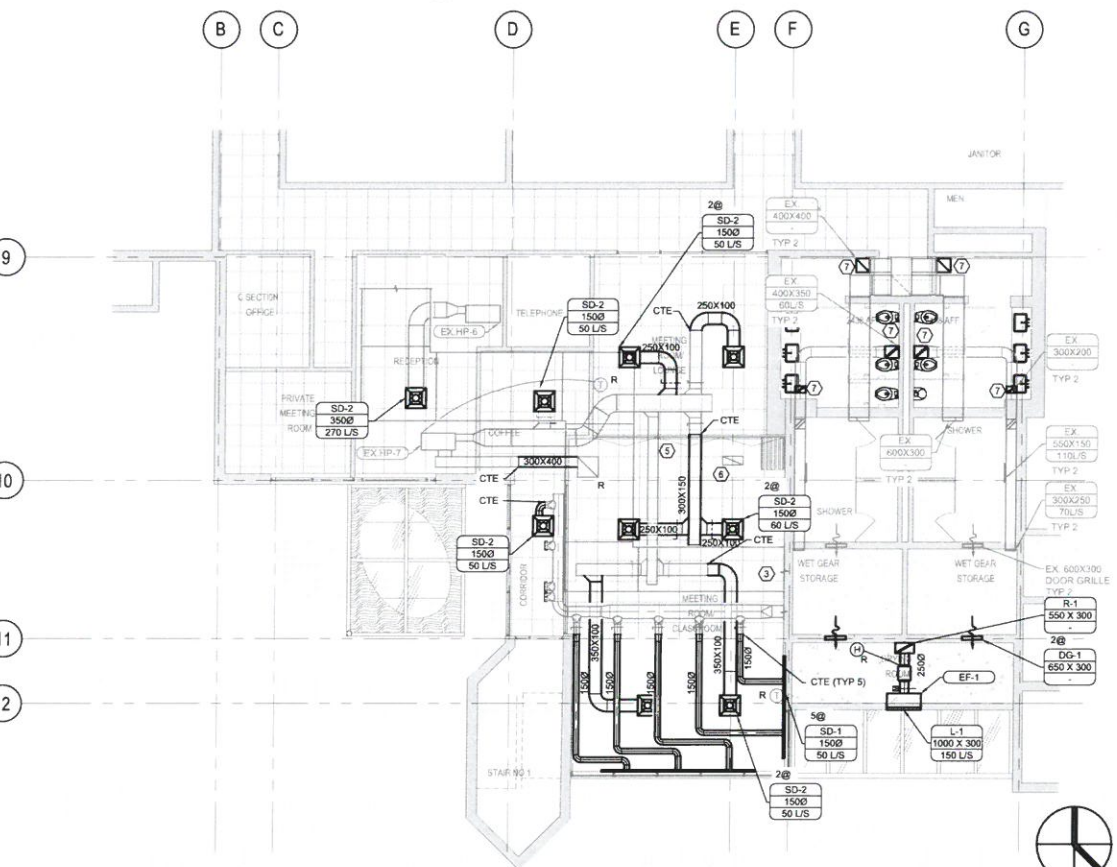


- GENERAL NOTES**
- CONTRACTOR TO REMOVE EXISTING GRILLES BEFORE CEILING IS REMOVED IN SCOPE OF WORK AREA. CONTRACTOR TO THEN RE-USE AND PLACE THE EXISTING GRILLES IN NEW CEILING IN THE SCOPE OF WORK AREA AND RE-BALANCE.
  - CONTRACTOR TO ALLOW FOR ANY NEW OR ADJUSTING OF EX. DUCTWORK TO EX. DIFFUSERS AND GRILLES.

- KEY NOTES**
- EX. THERMOSTAT CONNECTED TO EX. FCU-1 TO BE RELOCATED. REFER TO RENOVATION PLAN FOR THE NEW LOCATION.
  - EX. 800X250 RETURN AIR GRILLE TO EX. FCU-1. CONTRACTOR TO REMOVE GRILLE PRIOR TO WHEN WORK IS DONE ON THE WALL AND PLACE THE EXISTING GRILLE ON CEILING DURING RENOVATION PHASE. PORTION OF DUCT TO BE DEMOLISHED UP TO CEILING SPACE.
  - DUCT FROM SF-2 IN MECHANICAL ROOM LOCATED AT THE US OF SLAB ABOVE ALL OTHER DUCTWORK SHOWN AS HIDDEN FOR CLARITY.
  - CONTRACTOR TO REMOVE ALL EXISTING GRILLES IN WASHROOM SPACE BEFORE CEILING IS REMOVED WITHIN THE WASHROOM. TO BE RE-USED IN THE NEW CEILING.
  - CONTRACTOR TO ALLOW OFFSET OF EX. 300X250 DUCT TO ACCOMMODATE STRUCTURAL BRACE. REF. TO STRUCTURAL DRAWINGS. CONTRACTOR TO CONFIRM ONSITE IF OFFSET IS REQUIRED BASED ON SITE CONDITIONS.
  - DURING RENOVATION PHASE CONTRACTOR TO CONNECT DUCT FROM CEILING TO THE EX. RELOCATED GRILLE.
  - CONTRACTOR TO RE-USE AND PLACE THE EXISTING GRILLES IN NEW CEILING WITHIN THE WASHROOM SPACE.



1 HVAC DEMOLITION PLAN  
M3.01 SCALE: 1:100



2 HVAC RENOVATION PLAN  
M3.01 SCALE: 1:100



Revision/Revision	Description/Description	Date/Date

Client/client  
**FISHERIES & OCEANS CANADA**  
 200-401 BURRARD STREET  
 VANCOUVER, BC V6C 3R2

Project title/Titre du projet  
**4160 MARINE DRIVE**  
**WEST VANCOUVER, BC V7V 1H2**  
**PSEC - CLASSROOM ADDITION & RENOVATION**

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**KS**  
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**AT**  
 PwCSC Project Manager/Administrateur de Projets TPSCC  
 PwCSC Regional Manager, Architectural and Engineering Services/Gestionnaire régionale, Services d'architecture et de génie, TPSCC

Drawing title/Titre du dessin  
**HVAC PLAN**

Project No./No. du projet	Sheet/feuille	Revision no./La Révision no.
	<b>M3.01</b>	
	<b>OF 6</b>	



### GENERAL

- 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.
- 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.
- ALL CODE REFERENCES ARE TO LATEST EDITIONS AS REFERENCED IN THE NATIONAL BUILDING CODE OF CANADA 2015.

### FIELD REVIEW:

- DEPARTMENTAL REPRESENTATIVE THROUGH CWMM CONSULTING ENGINEERS 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.
- 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.
- 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 THE INCOMPLETE WORK OR POORLY EXECUTED WORK, AS JUDGED BY DEPARTMENTAL REPRESENTATIVE, AS WELL AS ADDITIONAL DESIGN OR REMEDIAL WORK CAUSED BY DEVIATIONS FROM THESE DRAWINGS MAY BE CHARGED TO THE CONTRACTOR.
- A MINIMUM 24 HOURS NOTICE SHALL BE GIVEN BY THE CONTRACTOR FOR ANY INSPECTION TO BE CARRIED OUT BY THE DEPARTMENTAL REPRESENTATIVE.

### NON-STRUCTURAL COMPONENTS:

- NON-STRUCTURAL COMPONENTS ARE NOT THE RESPONSIBILITY OF DEPARTMENTAL REPRESENTATIVE. SUCH COMPONENTS OF THE PROJECT ARE DESIGNED, DETAILED, SPECIFIED AND REVIEWED IN THE FIELD BY OTHERS. LETTERS OF CERTIFICATION OF ADEQUACY, INSTALLATION ETC. OF SUCH COMPONENTS ARE BY OTHERS.
- MANUFACTURERS OF NON-STRUCTURAL COMPONENTS WHICH AFFECT THE STRUCTURAL FRAMING SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT AND DEPARTMENTAL REPRESENTATIVE. FOR REVIEW. THE SHOP DRAWINGS SHALL CLEARLY INDICATE LOADS IMPOSED ON THE STRUCTURE. REVIEW WILL BE LIMITED TO THE EFFECT OF THE COMPONENTS ON THE STRUCTURAL FRAMING.
- EXAMPLES OF NON-STRUCTURAL COMPONENTS INCLUDE, BUT ARE NOT LIMITED TO:
  - ARCHITECTURAL COMPONENTS SUCH AS HANDRAILS, GUARDRAILS, RAILINGS, FLAG POST, REMOVABLE CANOPIES, CEILING, VEHICLE PROTECTION SYSTEMS, ORNAMENTAL COMPONENTS, ETC.
  - ARCHITECTURAL PRECAST CONCRETE AND ITS ATTACHMENTS.
  - ARCHITECTURAL GLASS BLOCKS AND THEIR ATTACHMENTS.
  - LANDSCAPING COMPONENTS SUCH AS BENCHES, LIGHT POSTS, PLANTERS, ETC.
  - CURTAIN WALL SYSTEMS, CLADDING, SKYLIGHT, WINDOW MULLIONS, ETC.
  - INTERIOR AND EXTERIOR NON-LOAD BEARING STEEL STUD WALLS.
  - SUPPORT AND BRACING OF MECHANICAL AND ELECTRICAL SYSTEMS AND EQUIPMENTS FOR NON-GRAVITY AND SEISMIC LOADS.
  - WINDOW WASHING EQUIPMENTS AND ITS ATTACHMENT.
  - NON-STRUCTURAL MASONRY.

### EXISTING STRUCTURES:

- PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY ALL RELEVANT DIMENSIONS TO AND OF EXISTING STRUCTURES. NOTIFY THE DEPARTMENTAL REPRESENTATIVE IMMEDIATELY IF DISCREPANCIES ARE NOTED.
- THE CONTRACTOR SHALL AT HIS OWN EXPENSE REPAIR AND MAKE GOOD ANY DAMAGE TO THE EXISTING STRUCTURE, EQUIPMENT AND FINISHES CAUSED BY THE CONSTRUCTION ACTIVITIES. REPAIRS SHALL BE TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY SUPPORT OF ANY ADJACENT EXISTING STRUCTURES DURING CONSTRUCTION. UNDERPINNING OR BRACING SHALL BE DESIGNED BY A QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA. SUBMIT 4 COPIES OF SIGNED AND SEALED DESIGN DRAWINGS TO ARCHITECT AND THE DEPARTMENTAL REPRESENTATIVE FOR REVIEW OF CONFORMANCE WITH GENERAL DESIGN CRITERIA.

### DESIGN LOADS:

- THIS STRUCTURE HAS BEEN DESIGNED FOR SNOW, WIND AND SEISMIC FORCES IN SUBSTANTIAL COMPLIANCE WITH THE PROVISIONS SET FORTH IN THE NATIONAL BUILDING CODE OF CANADA 2015.

GROUND SNOW:	S <sub>s</sub> = 2.4 kPa						
RAIN LOAD:	S <sub>r</sub> = 0.2 kPa						
IMPORTANCE FACTORS FOR SNOW	I <sub>s</sub> = 1.0 FOR STRENGTH I <sub>s</sub> = 0.9 FOR SERVICEABILITY						
WIND LOAD:	PROBABILITY 1/10 = 0.37 kPa PROBABILITY 1/50 = 0.48 kPa						
IMPORTANCE FACTORS FOR WIND	I <sub>w</sub> = 1.0 FOR STRENGTH I <sub>w</sub> = 0.75 FOR SERVICEABILITY						
EARTHQUAKE FACTORS:							
S <sub>a</sub> (0.2)	S <sub>a</sub> (0.5)	S <sub>a</sub> (1.0)	S <sub>a</sub> (2.0)	S <sub>a</sub> (5.0)	S <sub>a</sub> (10.0)	PGA	PGV
0.863	0.765	0.432	0.261	0.081	0.029	0.375	0.563
				I <sub>E</sub> = 1.0 FOR STRENGTH I <sub>E</sub> = 1.0 FOR SERVICEABILITY			
				(CLAUSE 4.1.8.13 FOR SERVICEABILITY)			

### ASSUMED SITE CLASS D

- SPECIFIED UNIFORM SUPERIMPOSED DEAD LOADS ON ROOF:
 

ROOF	1.0 kPa
------	---------
- DESIGN SPECIFIED CONCENTRATED LIVE LOADS ON ROOF AND FLOORS:
 

ROOF	1.3 kN
------	--------
- WORST CASE OF UNIFORM OR CONCENTRATED LIVE LOADS WILL BE USED FOR DESIGN OF STRUCTURAL MEMBERS.

### FOUNDATION AND SITE WORK

- GEOTECHNICAL CONSULTANT TO CONFIRM THE EXCAVATION, BACKFILLING, FILL MATERIALS, COMPACTION, FROST PROTECTION AND OTHER SITE PREPARATION REQUIREMENTS NOT SHOWN ON THESE DRAWINGS.
- ASSUMED DESIGN SOIL BEARING CAPACITIES (TO BE CONFIRMED BY GEOTECHNICAL CONSULTANT):
 

PAD / STRIP FOOTINGS	SLS = 50 kPa (psf) ULS = 70 kPa (psf)
----------------------	--
- 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, SLUMP AND OTHER EXCAVATED STRUCTURES AND LOCATE AS DIRECTED BY GEOTECHNICAL ENGINEER.
- THE BASES OF FOUNDATIONS SHALL BE PROTECTED FROM RAIN, SNOW AND ANY WATER INFILTRATION.
- NO FOUNDATIONS MAY BE POURED BEFORE THE BEARING MATERIAL HAS BEEN INSPECTED BY THE GEOTECHNICAL ENGINEER. NOTIFY THE GEOTECHNICAL ENGINEER MINIMUM 24 HOURS BEFORE INSTALLATION OF FOOTING REINFORCEMENT.
- COORDINATE CONSTRUCTION WITH UNDERSLAB SERVICES AS SHOWN ON MECHANICAL, ELECTRICAL, ARCHITECTURAL AND LANDSCAPING DRAWINGS.
- REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SITE DRAINAGE, GROUND ELEVATIONS AND DRAINAGE SLOPES.
- CENTRE ALL FOOTINGS UNDER COLUMNS OR WALLS UNLESS NOTED OTHERWISE.

### REINFORCED CONCRETE CONCRETE:

1. CONCRETE STRENGTH:	MINIMUM 28-DAYS STRENGTH	MAXIMUM AGGREGATE SIZE	EXPOSURE CLASS	AIR CONTENT CATEGORY
FOOTINGS	25 MPa	25 mm	N	-
SLABS - INTERIOR	25 MPa	20 mm	N	-
SLABS - EXTERIOR	35MPa	20 mm	C-1	1
2. REFER TO SPECIFICATIONS FOR CONCRETE PROPERTIES & OTHER REQUIREMENTS.				
3. PROVIDE MINIMUM CONCRETE COVER TO REINFORCING AS FOLLOWS:				
CAST AGAINST EARTH	75 mm			
EXPOSED TO EARTH OR WEATHER	50 mm			
ELSEWHERE	40 mm			
4. UNLESS NOTED OTHERWISE, PROVIDE MINIMUM SPLICE LENGTH TO REINFORCEMENT:				
10M	450 mm			
15M	600 mm			
	- INCREASE LENGTH BY 30% FOR BARS WITH DEPTH OF CONCRETE CAST BELOW GREATER THAN 300 mm (TOP BARS)			

### FORMING:

- THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF ALL FORMWORK AND SHORING AND FOR COMPLYING WITH ALL WORKERS' COMPENSATION BOARD REGULATIONS PERTAINING TO FORMWORK CONSTRUCTION, DESIGN AND INSPECTION. FORMWORK AND SHORING SHALL BE DESIGNED BY A QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF BRITISH COLUMBIA.
- LOCATIONS OF CONSTRUCTION JOINTS SHALL BE SUBMITTED TO THE DEPARTMENTAL REPRESENTATIVE FOR REVIEW IN ADVANCE AND PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- REFER TO ARCHITECTURAL DRAWINGS FOR REVEALS, RECESSES, CHAMFERS, FINISHES AND OTHER ARCHITECTURAL REQUIREMENTS NOT INDICATED ON THESE DRAWINGS.
- SUPPLY AND SET ANCHOR BOLTS, SLEEVES, PIPE HANGERS, EXPANSION JOINTS AND OTHER INSERTS AND OPENINGS AS INDICATED IN THESE DRAWINGS AND THEIR ACCOMPANYING SPECIFICATIONS OR IN DOCUMENTS BY OTHER CONSULTANTS.
- ALL DOWELS, ANCHOR BOLTS, EMBEDDED PLATES AND OTHER INSERTS SHALL BE PLACED BEFORE THE CONCRETE IS POURED.
- SLAB ON GRADE JOINTS SHALL HAVE 35mm (1 1/2") DEEP SAWCUTS SPACED MAXIMUM 4500mm APART. LAYOUT OF JOINTS SHALL BE APPROVED BY THE ARCHITECT, SEAL WITH FLEXIBLE JOINT SEALER TO PREVENT INGRESS OF WATER.
- REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND SIZES OF CURBS AND EQUIPMENT PADS.
- CONDUITS, PIPES AND SLEEVES:
  - NO SLEEVES, DUCTS, PIPES OR OTHER OPENINGS SHALL PASS THROUGH WALLS, EXCEPT WHERE EXPRESSLY DETAILED ON STRUCTURAL DRAWINGS OR WHERE APPROVED IN ADVANCE BY THE DEPARTMENTAL REPRESENTATIVE.
  - FOR CONDUITS, PIPES AND SLEEVES THROUGH THE THICKNESS OF THE WALL, SLEEVES AND OPENINGS GREATER THAN 100mm IN ANY DIRECTION NOT INDICATED ON DRAWINGS MUST BE APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.

### CONCRETE REINFORCING:

- TYPICAL DESIGNATION OF REINFORCING BARS:
 

3-20M2400 OR 3-20M8'-0"	MEANS THREE 20M BARS 2400mm (8'-0") LONG EACH
2-C15M1500 OR 2-C15M5'-0"	MEANS TWO 15M BARS EACH WITH A 90 DEGREE STANDARD HOOK AT ONE END AND A TOTAL LENGTH OF 1500mm (5'-0") INCLUDING HOOK.
A15M2000 @300 OR A15M6'-6" @12"	MEANS 15M BARS WITH A 180 DEGREE STANDARD HOOK AT ONE END AND A TOTAL LENGTH OF 2000mm (6'-6") INCLUDING HOOK, AT 300mm (12") ON CENTRES.

\* ALL STANDARD HOOK LENGTHS TO FOLLOW CSA-A23.1.
- USE ONLY NON-CORRODING BAR SUPPORTS WHERE CONCRETE SURFACES ARE TO BE EXPOSED TO WEATHER, EARTH, SEA WATER, DE-ICING SALTS, OR CORROSIVE CHEMICALS AND FOR ALL CONCRETE SLABS AND BEAMS IN THE PARKING AREA.
- USE ONLY NON-CORRODING CHAIRS FOR REINFORCING IN ALL EXPOSED CONCRETE WORK AND FOR ALL CONCRETE SLABS.

### MASONRY

- UNLESS NOTED OTHERWISE, MATERIALS AND WORK SHALL CONFORM AS FOLLOWS:
 

CONCRETE GROUT:	20MPa (2900psi) @ 28 DAYS, EXPOSURE CLASS F-2, 10mm (0.4") AGGREGATE, 200 TO 250mm (8" TO 10") SLUMP, 5-8% AIR.
BOND BEAMS:	KNOCK-OUT TYPE
MASONRY MORTAR:	TYPE "S" TO CSA A179, MINIMUM 12.5 MPa (1800psi) @ 28 DAYS.
- REINFORCE 200mm NON- LOADBEARING WALLS AS FOLLOWS:
 

VERTICAL:	1-15M @800mm CENTERED IN GROUTED CORE
HORIZONTAL:	3.8mm DIA. LADDER JOINT REIN. @400mm (16") 2-15M IN CONTINUOUS BOND BEAMS AS SHOWN BELOW 1 BOND BEAM AT TOP OF WALL PLUS 1 BOND BEAM MIDHEIGHT (OVER WALL OPENINGS)
ADDITIONAL:	1-15M VERT. AT UNSUPPORTED ENDS OF WALLS 1-15M VERT. AT ALL CORNERS AND INTERSECTIONS 1-15M VERT. AT EACH SIDE OF OPENINGS 1-15M VERT. IN EACH CELL OF PIERS AND PILASTERS 2-15M ABOVE AND BELOW ALL OPENINGS, 800mm (32") PAST EDGE. (MAY BE PART OF CONTINUOUS BOND BEAMS)

- UNLESS NOTED OTHERWISE SPLICE REINFORCING AND EMBED DOWELS AS FOLLOWS:
 

DOWEL EMBEDMENT: (INCL. LENGTH OF HOOK)	15M BARS: 400	SPLICES: 15M BARS: 650
	WIRE REINF.	300
- ALL VERTICAL REINFORCING SHALL RUN CONTINUOUS THROUGH BOND BEAMS AND LINTELS OR BE SPLICED AS SPECIFIED.
- PROVIDE CORNER BARS FOR ALL HORIZONTAL REINFORCING. SPLICE LENGTH AS SPECIFIED.
- STRAIGHT OR HOOKED DOWELS SHALL BE PROVIDED IN FOUNDATIONS OR GRADE BEAMS TO MATCH ALL VERTICAL REINFORCING BARS. SPLICE LENGTH AS SPECIFIED.
- NOTIFY THE DEPARTMENTAL REPRESENTATIVE 24 HOURS PRIOR TO ANY GROUT POUR.
- CELLS TO BE REINFORCED SHALL BE KEPT CLEAR OF MORTAR.
- FILL CELLS CONTAINING REINFORCING STEEL OR ANCHOR BOLTS WITH 20MPa (2900psi) GROUT, 10mm (0.4") AGGREGATE, 200-250mm (8"-10") SLUMP. PUDDLE OR VIBRATE TO COMPLETELY FILL CELLS. REVIBRATE AFTER 10 TO 40 MINUTES, WHEN EXCESS WATER HAS BEEN ABSORBED BY MASONRY UNITS. TOP OFF FILLED CORES WITH FRESH GROUT REVIBRATION.
- PROVIDE CLEAN-OUTS AT BOTTOM OF ALL GROUTED CORES FOR LIFTS OVER 1500mm (5'-0").
- UNLESS NOTED OTHERWISE PROVIDE LINTELS OVER OPENINGS AS FOLLOWS:
 

CLEAR SPAN	DEPTH OF LINTEL	REINFORCING
LESS THAN 1500 (60")	400 (16")	2-15M 800 (32") PAST EDGES
1500 - 2400 (60" - 96")	600 (24")	2-20M 800 (32") PAST EDGES
2500 - 3000 (100" - 120")	800 (32")	2-25M 800 (32") PAST EDGES
- CHECK STRUCTURAL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, CIVIL, LANDSCAPE AND ALL OTHER RELEVANT DRAWINGS FOR LOCATIONS AND SIZES OF BOLTS, SLEEVES AND OPENINGS. SUPPLY AND SET ANCHOR BOLTS, SLEEVES, PIPE HANGERS, JOINTS AND OTHER INSERTS AND OPENINGS AS INDICATED OR SPECIFIED ELSEWHERE.
- VERTICAL CONTROL JOINTS SHALL BE PROVIDED AT A MAXIMUM SPACING OF 800mm (26'-0") FOR STRAIGHT WALLS AND 400mm (13'-0") FROM WALL CORNERS. TERMINATE BOND BEAM REINFORCING AT CONTROL JOINTS, LADDER REINFORCING TO RUN THROUGH JOINTS.

### STRUCTURAL STEEL

- REFER TO SPECIFICATIONS FOR STEEL WORK, STEEL CONFORMANCE, DESIGN CORE REQUIREMENTS AND OTHER REQUIREMENTS.
- GRADES OF MATERIALS:
 

ANGLES	300W
HOLLOW STRUCTURAL STEEL (HSS)	350W, CLASS C (ASTM A500)
OTHER STRUCTURAL STEEL AND MISC. METAL	300W
BOLTS, NUTS AND WASHERS	ASTM F3125/F3125M
ANCHOR BOLTS	ASTM A307
- DRAWINGS FROM ALL CONSULTANTS SHALL BE EXAMINED FOR EXACT LOCATIONS, DIMENSIONS AND ELEVATIONS.
- CONFIRM ALL LOCATIONS, DIMENSIONS AND ELEVATIONS WITH ACTUAL SITE MEASUREMENTS BEFORE FABRICATION.

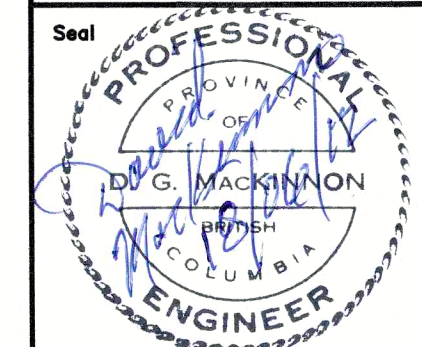
### WOOD PRODUCTS

- PROPRIETARY CLT PRODUCTS SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH CSA-086.1-14.

### ABBREVIATIONS

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

Consultant



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

### FISHERIES & OCEANS CANADA

200-401 Burrard Street  
VANCOUVER, BC V6C 3R2

Project title/Titre du projet

4160 MARINE DRIVE  
WEST VANCOUVER, BC V7V 1H2

### PSEC CLASSROOM ADDITION & RENOVATION

Consultant Signature Only

Designed by/Concept par: DM

Drawn by/Dessiné par: CAD / APRIL 2018

PWGSC Project Manager/Administrateur de Projets: TPSSC

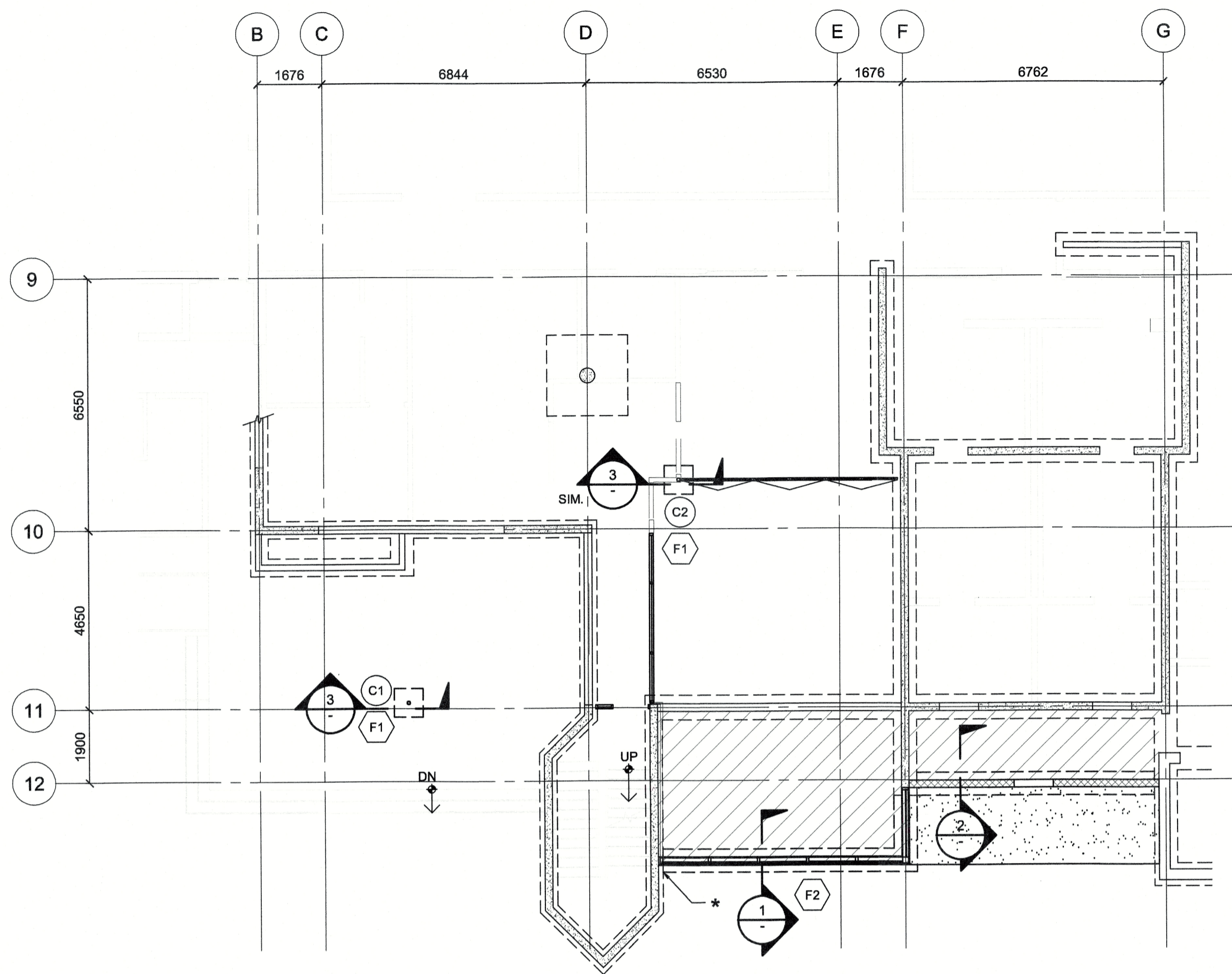
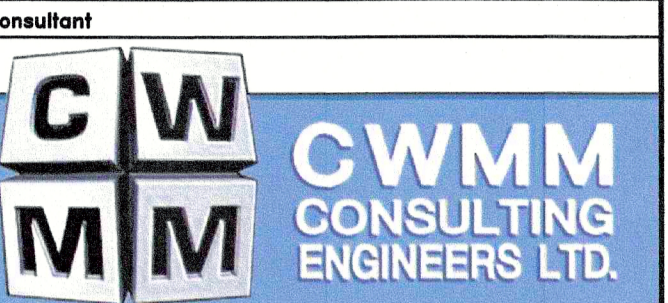
Regional Manager, Architectural and Engineering Services / Gestionnaire régional, Services d'architecture et de génie, TPSSC

Drawing title/Titre du dessin

### GENERAL NOTES

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
PK90237	S101 OF XX	0





PARTIAL MAIN FLOOR & FOUNDATION PLAN  
1:100

LEGEND:

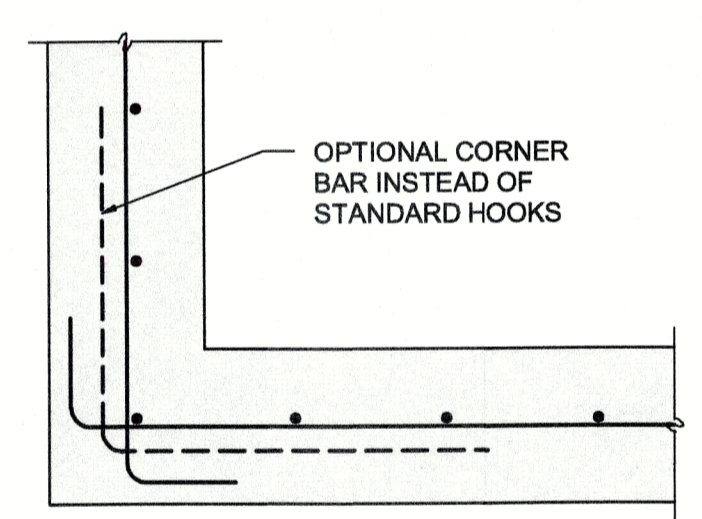
- DENOTES NEW 125 THK. S.O.G. R/W 10M@300 E.W. ON 6 MIL POLY VAPOUR BARRIER ON 300 THK. COMPACTED CRUSHED GRAVEL FILL AS PER GEOTECH REPORT
  - DENOTES NEW CMU WALL
  - DENOTES NEW CONC. SIDEWALK AS PER ARCH. DWG.
- \* WHERE NEW FOOTING OR S.O.G. ABUT EXIST. FOOTING OR S.O.G., CLEAN EXIST. CONC. SURFACE FREE OF LAITANCE. SATURATE CONC. 24 HOURS PRIOR TO POUR. ENSURE CONC. IS SATURATED SURFACE DRY (SSD) BEFORE POURING. DRILL AND DOWEL REBAR USING HILTI RE500 V3 OR APPROVED ALTERNATIVE. EMBED 150mm. SPLICE BARS AS PER GENERAL NOTES.

COLUMN SCHEDULE

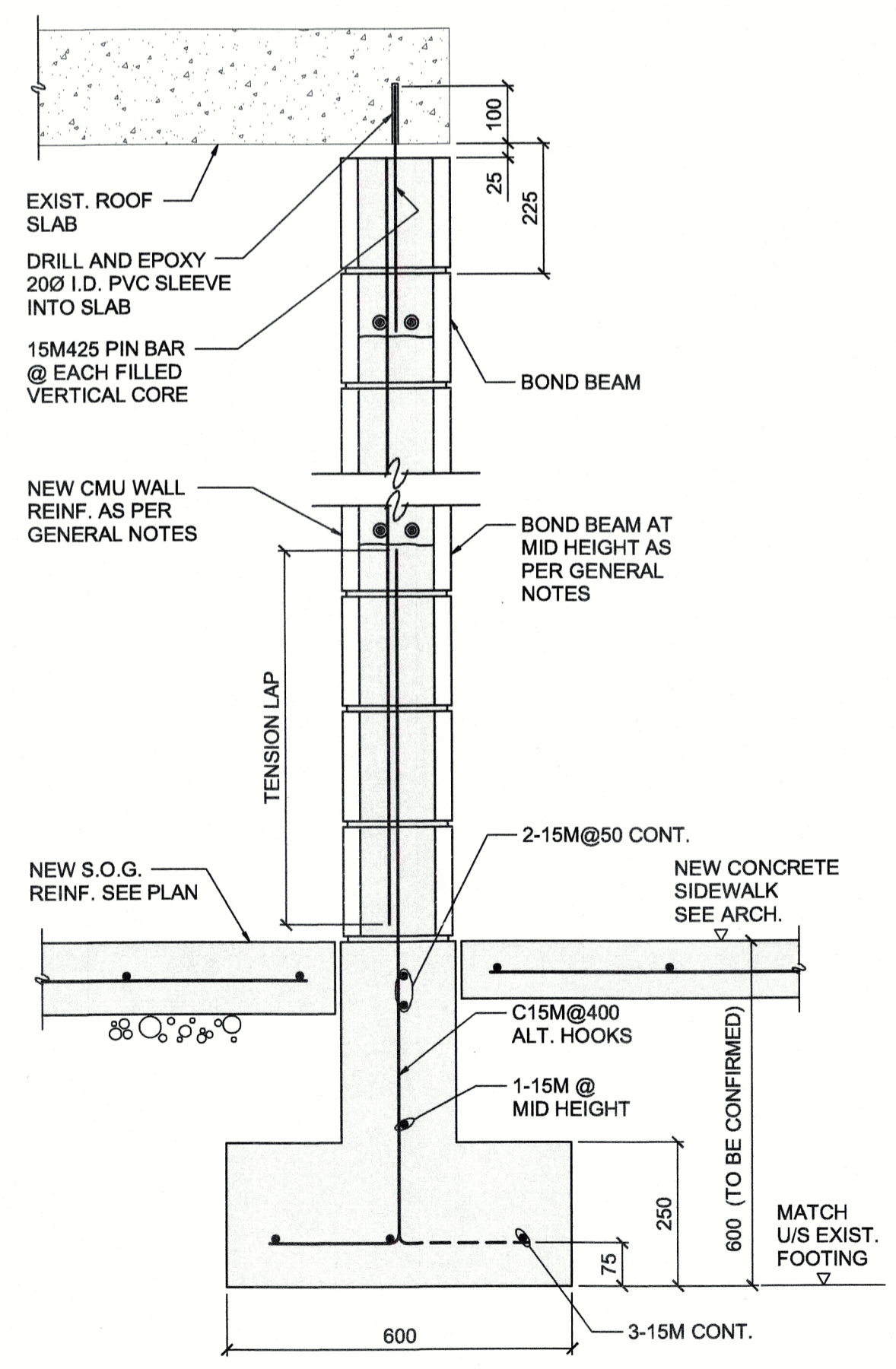
COLM. TYPE	COLUMN SIZE	BASE PLATE (THICKNESS x WIDTH x LENGTH)
C1	HSS102@x6.4 W/ HSS 89@x6.4 REVEAL AT ENDS	19x250x250 C/W HOLES FOR 4-16Ø x200 EMBED A307 ANCHOR BOLTS WITH STANDARD NUT & WASHERS PROVIDE 38 THK. NON-SHRINK GROUT. 38 TYP.
C2	HSS 89x89x6.4	19x250x250 C/W HOLES FOR 4-16Ø x200 EMBED A307 ANCHOR BOLTS WITH STANDARD NUT & WASHERS PROVIDE 38 THK. NON-SHRINK GROUT. 38 TYP.

FOOTING SCHEDULE

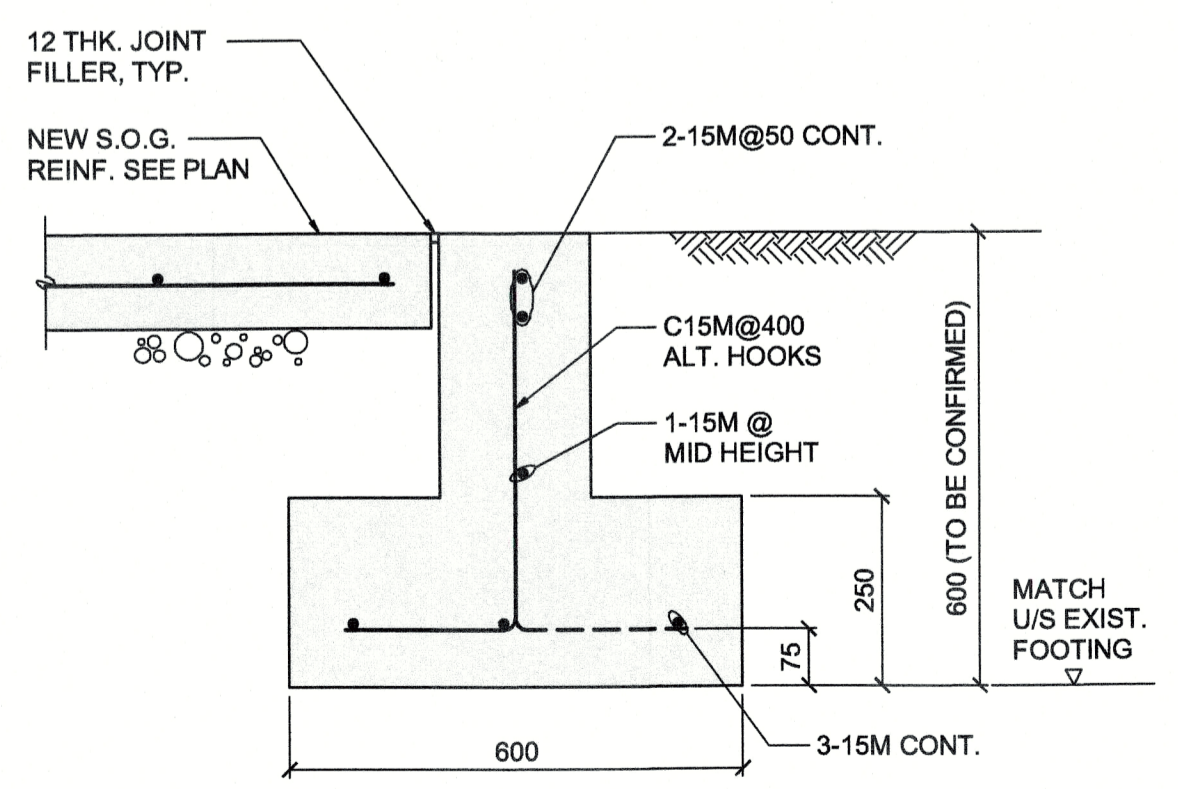
FTG. TYPE	FOOTING SIZE (LENGTH x WIDTH x DEPTH)	BOTTOM REINFORCING EACH WAY (U.N.O.)	REMARKS
F1	750 x 750 x 425 (ASSUMED)	4-15M U-BARS BOTT. 10M@300 TOP	SEE TYP. SECTION
F2	600 WIDE x 250 DEEP	3-15M LONG. BOTT.	SEE TYP. SECTION



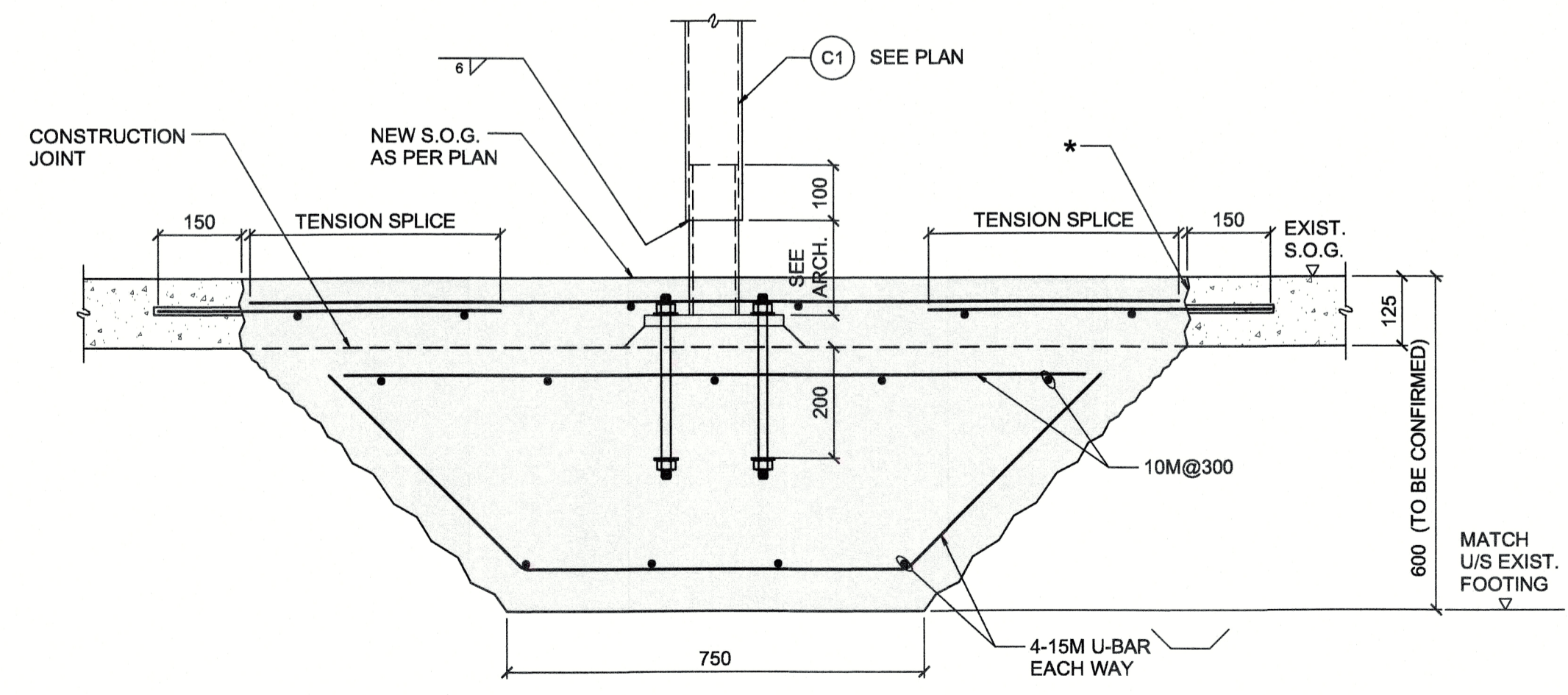
SINGLE CURTAIN  
TYPICAL WALL INTERSECTION PLAN DETAILS  
1:10



SECTION 2  
1:10  
GEOTECH TO CONFIRM BEARING CONDITIONS AND BACKFILL



SECTION 1  
1:10  
GEOTECH TO CONFIRM BEARING CONDITIONS AND BACKFILL



SECTION 3  
1:10  
GEOTECH TO CONFIRM BEARING CONDITIONS AND BACKFILL

Revision/Revisions	Description/Description	Date/Date
0	ISSUED FOR TENDER	2018/06/12

FISHERIES & OCEANS CANADA  
200-401 BURRARD STREET VANCOUVER, BC V6C 3R2

Project title/Titre du projet  
4160 MARINE DRIVE WEST VANCOUVER, BC V7V 1H2

PSEC CLASSROOM ADDITION & RENOVATION

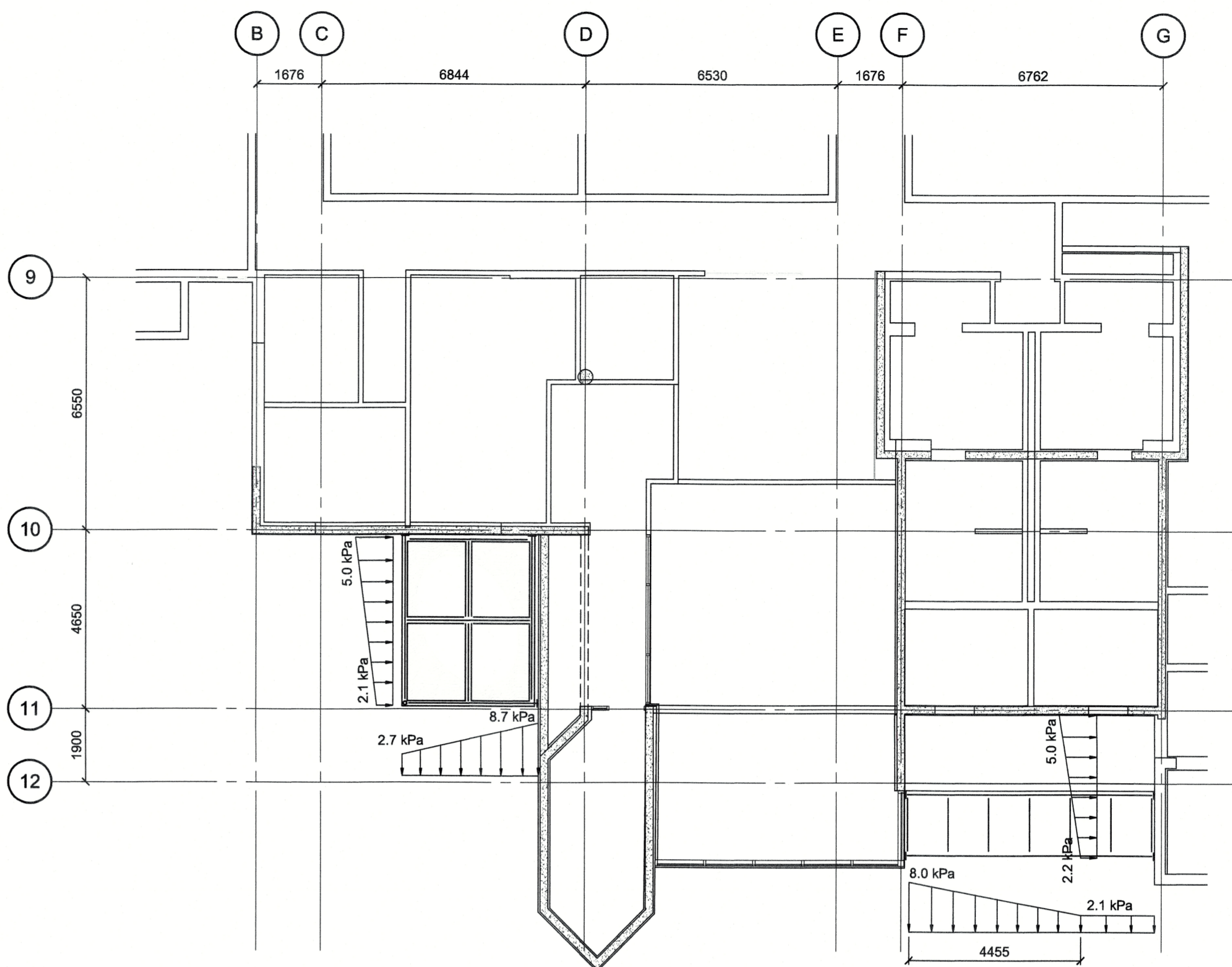
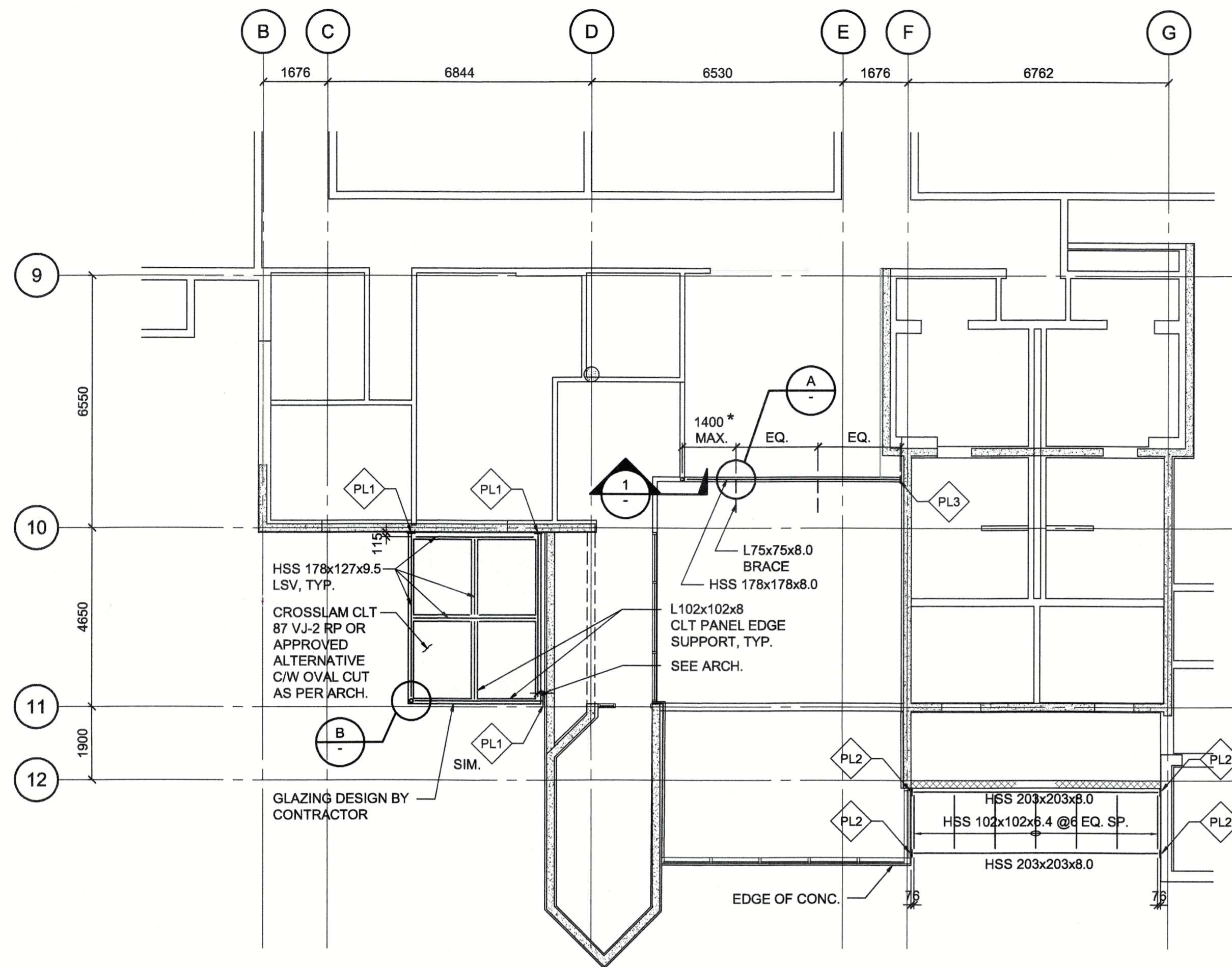
Consultant Signature Only  
Designed by/Concept par DM  
Drawn by/Dessiné par CAD / APRIL 2018  
PWGSC Project Manager/Administrateur de Projets TP5GC  
Regional Manager, Architectural and Engineering Services  
Gestionnaire régionale, Services d'architecture et de génie, TP5GC

Drawing title/Titre du dessin  
PARTIAL MAIN FLOOR & FOUNDATION PLAN AND SECTIONS

Project No./No. du projet PK90237  
Sheet/Feuille S201 OF XX  
Revision no./La Révision no. 0

12797



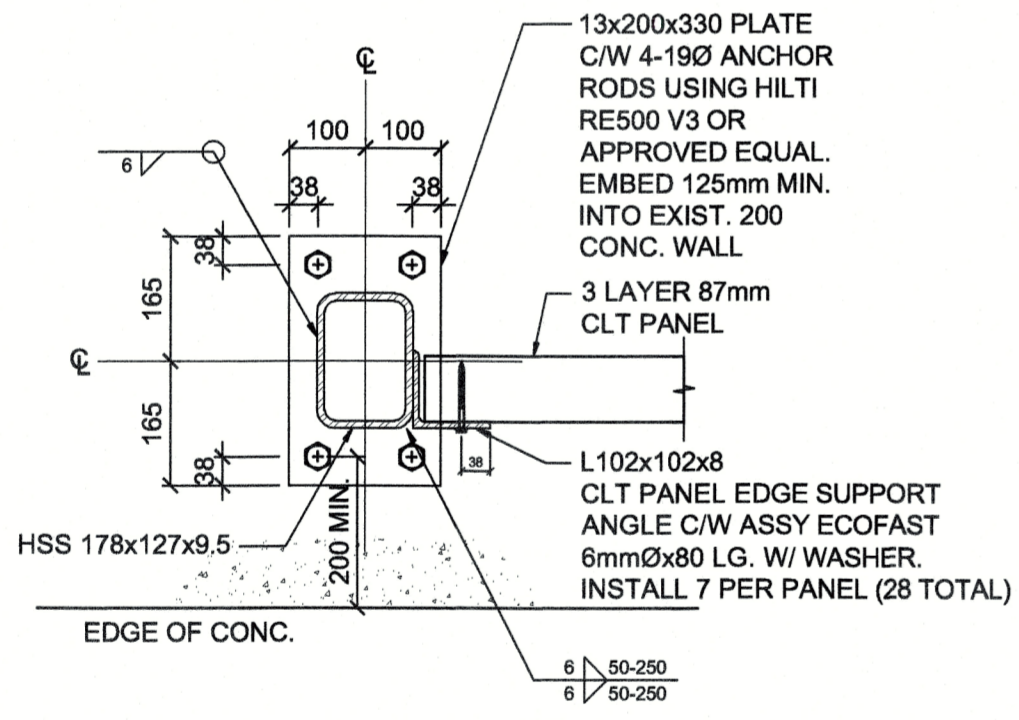


**LEGEND:**  
 PL1 DENOTES NEW CONNECTION PLATE SEE DETAILS ON THIS DWG.  
 DENOTES NEW CMU WALL BELOW

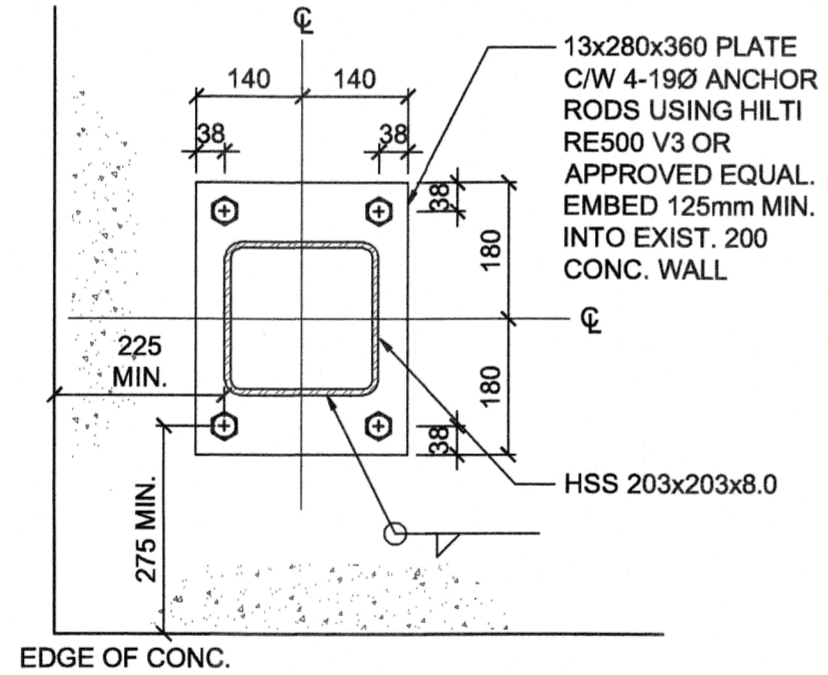
**PARTIAL ROOF PLAN**  
1:100

\* FIELD LOCATE BRACE BETWEEN EXIST. DUCTS. NOTIFY DEPARTEMETAL REPRESENTATIVE IF DIMENSION GREATER THAN 1400

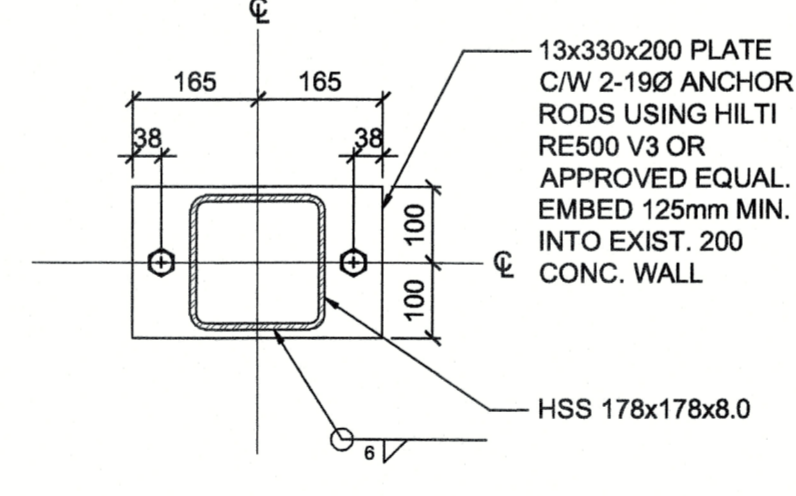
**ROOF SNOW LOAD DIAGRAM**  
1:100



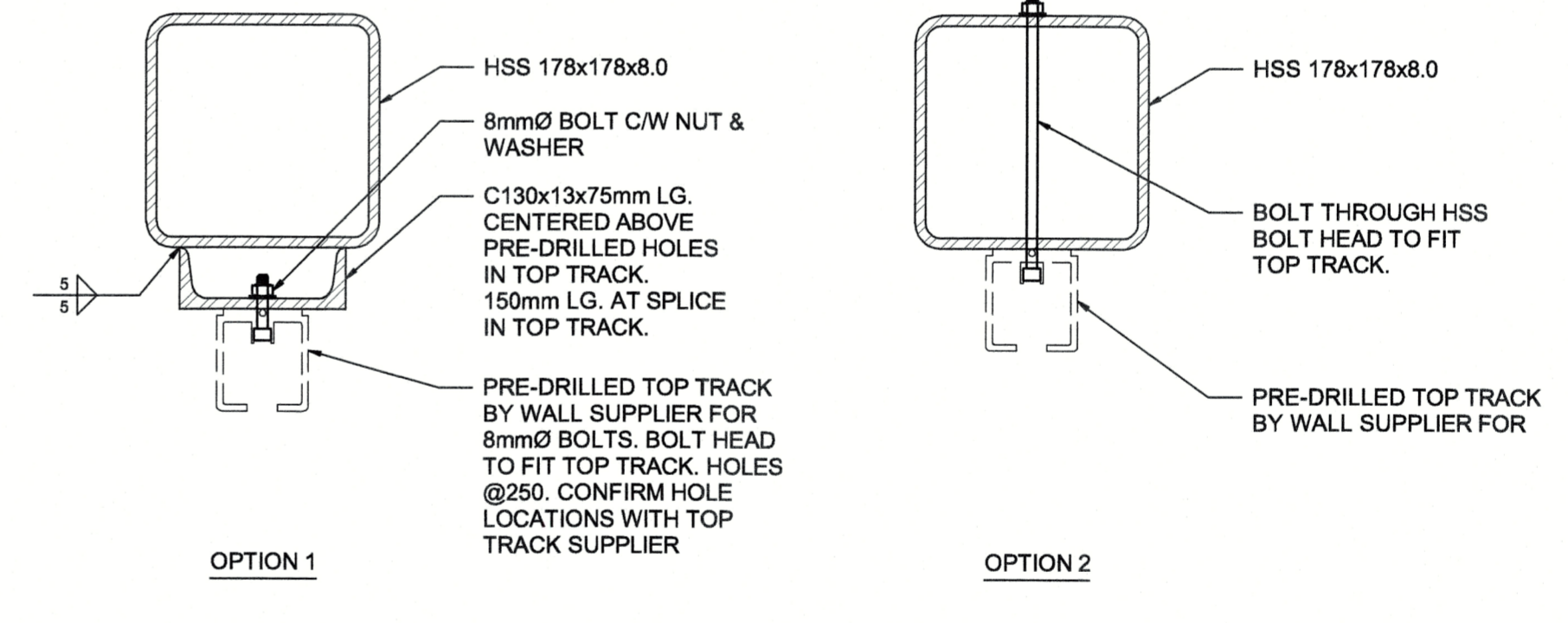
**CONNECTION PLATE DETAIL FOR PL1**  
1:10



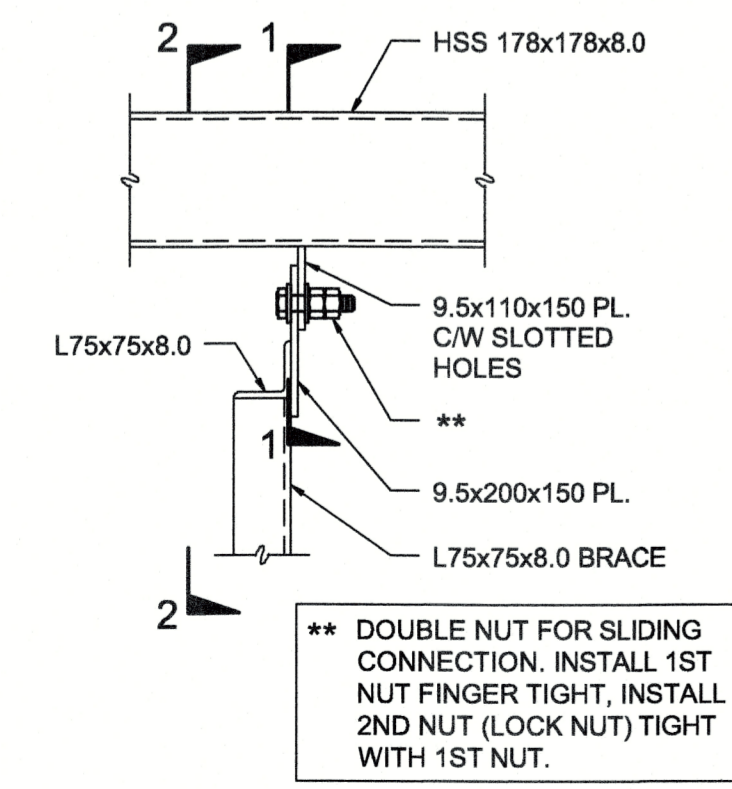
**CONNECTION PLATE DETAIL FOR PL2**  
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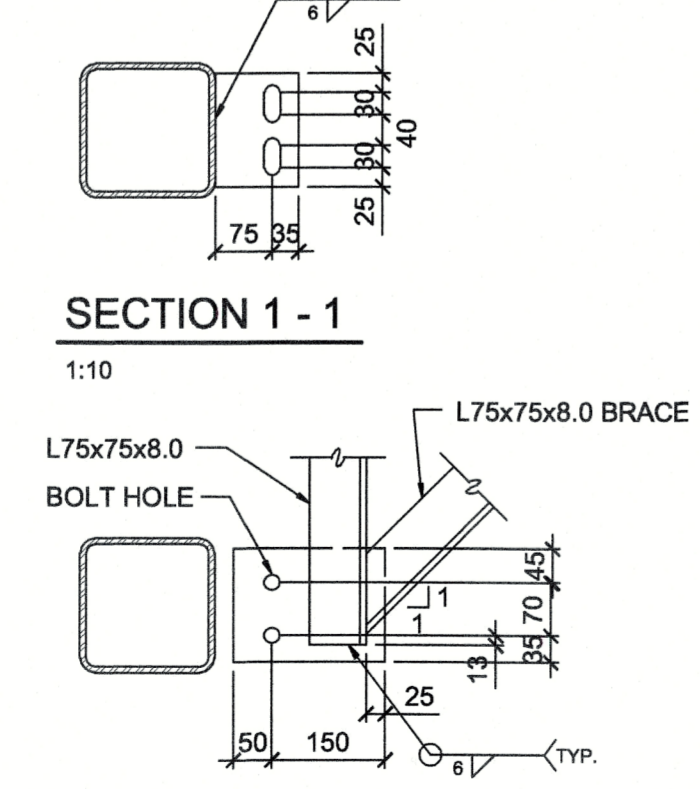
**CONNECTION PLATE DETAIL FOR PL3**  
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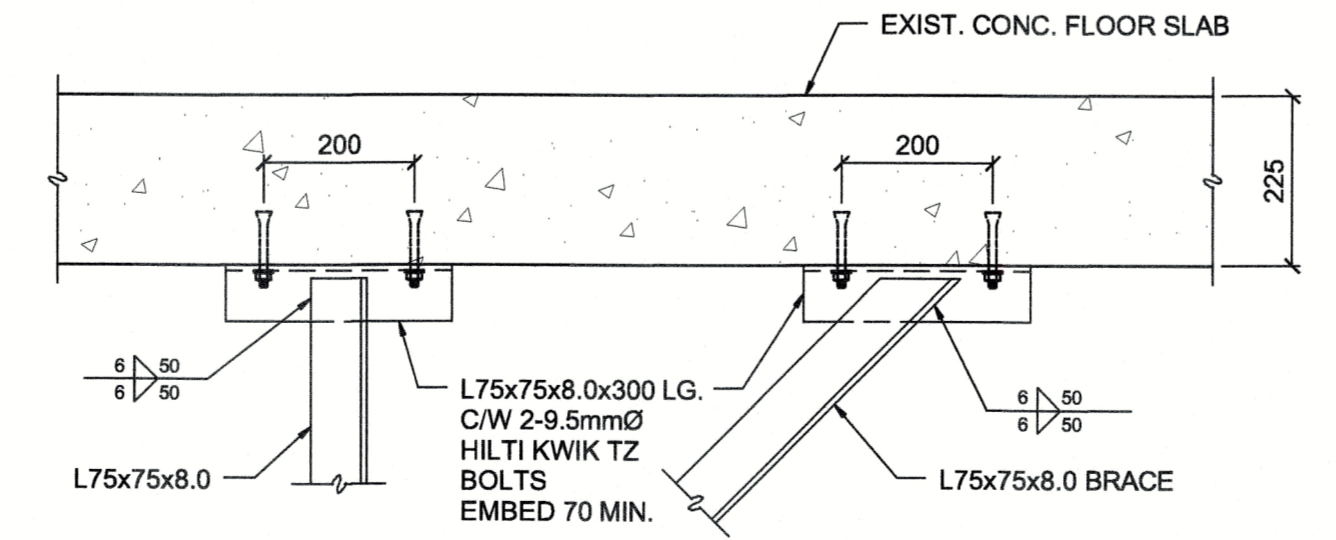
**TYPICAL TOP TRACK CONNECTION TO HSS BEAM**  
1:5



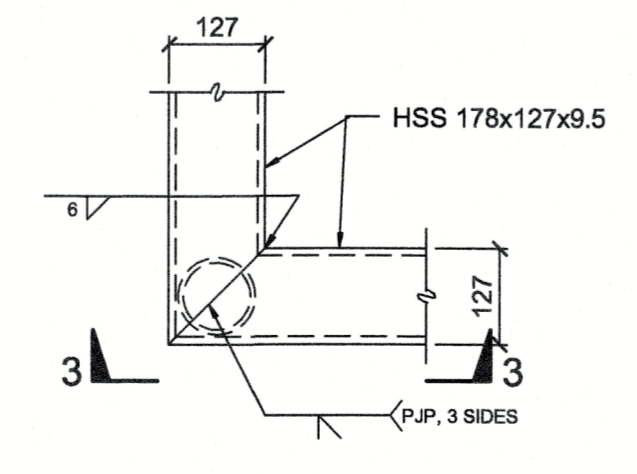
**DETAIL A**  
1:10



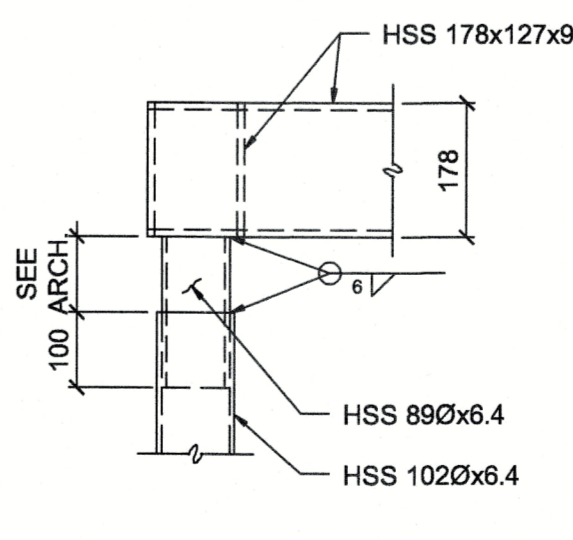
**SECTION 1-1**  
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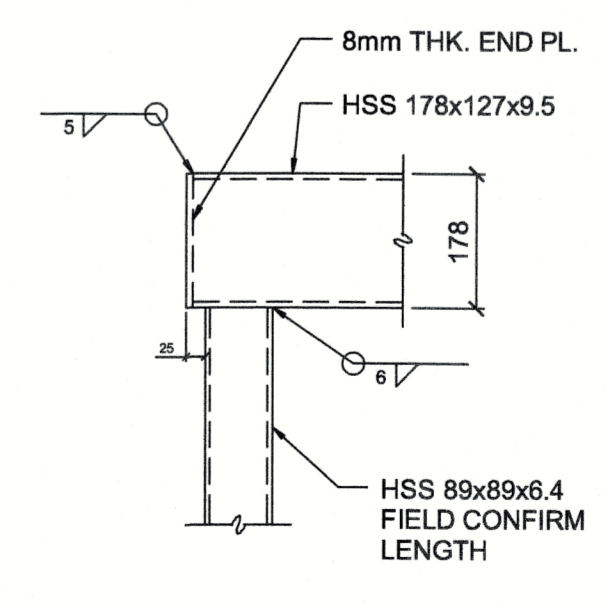
**TYPICAL TOP CONNECTION DETAIL FOR BRACES**  
1:10



**DETAIL B**  
1:10



**SECTION 3-3**  
1:10



**SECTION 1**  
1:10

5		
4		
3		
2		
1		2018/05/12
0	ISSUED FOR TENDER	2018/05/12
Revision/Revisions	Description/Description	Date/Date

**FISHERIES & OCEANS CANADA**  
 200-401 BURRARD STREET  
 VANCOUVER, BC V6C 3R2

Project title/Titre du projet  
 4160 MARINE DRIVE  
 WEST VANCOUVER, BC V7V 1H2

**PSEC CLASSROOM  
 ADDITION & RENOVATION**

Consultant Signature Only  
 Designed by/Concept par DM  
 Drawn by/Designé par CAD / APRIL 2018  
 PWGSC Project Manager/Administrateur de Projets TPSSC  
 Regional Manager, Architectural and Engineering Services  
 Gestionnaire régionale, Services d'architecture et de génie, TPSSC

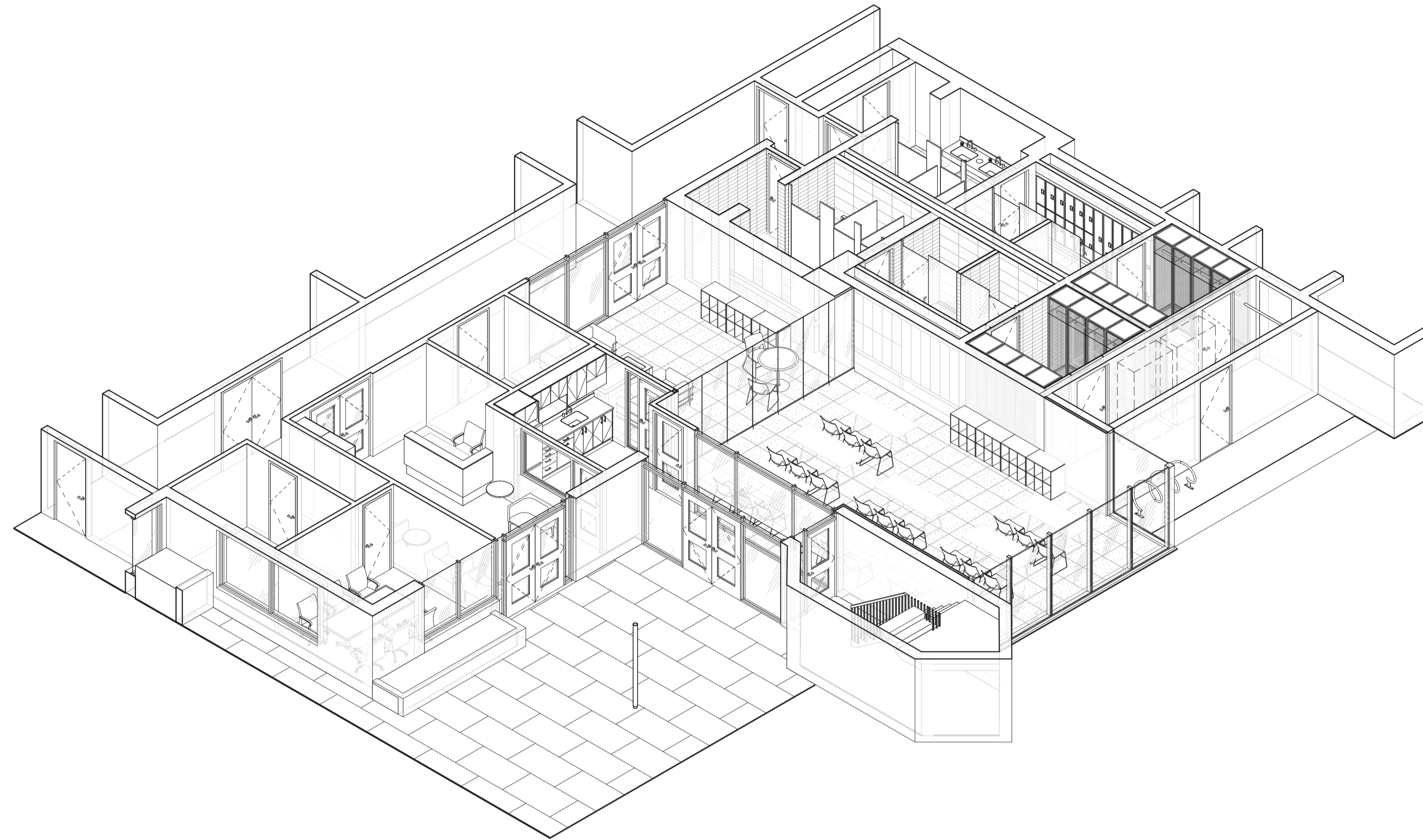
Drawing title/Titre du dessin  
**PARTIAL SECOND FLOOR PLAN  
 AND SECTIONS**

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
PK90237	S202 OF XX	0

12797



# PACIFIC SCIENCE ENTERPRISE CENTRE: CLASSROOM ADDITION & RENOVATION



**1** LOCATION PLAN  
A0.00 NTS

## ARCHITECTURAL DRAWING LIST

- A0.00 COVER SHEET
- A0.01 GENERAL NOTES & LEGENDS
- A1.10 SITE PLAN & ROOF PLANS
- A2.10 DEMOLITION & CONSTRUCTION PLANS
- A4.10 BUILDING SECTIONS
- A6.10 EXTERIOR DETAILS
- A7.00 DOOR & FRAME SCHEDULE
- A8.00 ROOM FINISH SCHEDULE, ENLARGED PLAN & INTERIOR ELEVATIONS
- A8.10 FINISHES PLANS & MILLWORK PLANS & ELEVATIONS
- A8.20 MILLWORK SECTIONS & DETAILS

## STRUCTURAL DRAWING LIST

- S101 GENERAL NOTES
- S201 PARTIAL MAIN FLOOR & FOUNDATION PLAN AND SECTIONS
- S202 PARTIAL SECOND FLOOR PLAN AND SECTIONS

## MECHANICAL DRAWING LIST

- M0.01 SITE PLAN, GENERAL NOTES & SYMBOL SCHEDULES
- M0.02 MECHANICAL SCHEDULE
- M1.01 FOUNDATION PLAN
- M1.02 PLUMBING PLAN
- M2.01 FIRE PROTECTION PLAN
- M3.01 HVAC PLAN

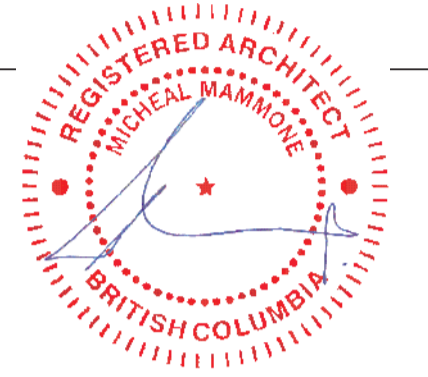
## ELECTRICAL DRAWING LIST

- E01 ELECTRICAL DRAWING LIST & SYMBOL LEGEND
- E02 ELECTRICAL DEMOLITION DRAWING
- E03 NEW ELECTRICAL PLAN
- E10 ELECTRICAL DETAILS

Consultant



Seal



Revision/Revision	Description/Description	Date/Date
1	ISSUED FOR TENDER	2018.05.09

Client/client

**FISHERIES & OCEANS CANADA**

200-401 BURRARD STREET  
VANCOUVER, BC V6C 3R2

Project title/Titre du projet

4160 MARINE DRIVE  
WEST VANCOUVER, BC V7V 1H2

**PSEC - CLASSROOM  
ADDITION & RENOVATION**

Consultant Signature Box Only

Designed by/Concept par

**MIKE MAMMONE**

Drawn by/Dessiné par

**DEACON GREEN**

PWGSC Project Manager/Administrateur de Projets TPSCG

PWGSC, Regional Manager, Architectural and Engineering Services/Gestionnaire régional, services d'architecture et de génie, TPSCG

Drawing title/Titre du dessin

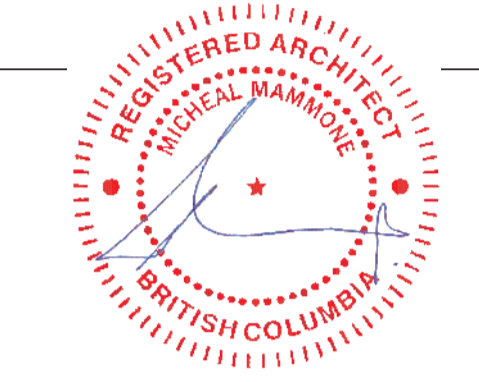
**COVER SHEET**

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
Client Number O4A: 1712-009	<b>A0.00</b> OF 10	<b>1</b>

Consultant



Seal



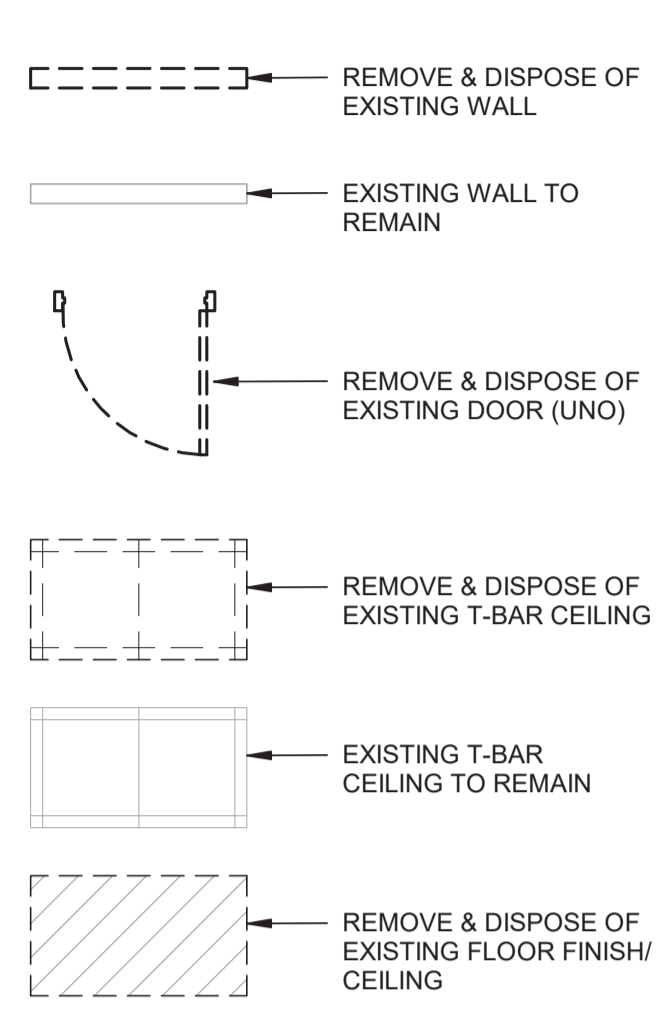
**GENERAL ARCHITECTURAL NOTES**

- A IT IS IMPERATIVE THAT ARCHITECTURAL TRADES READ ARCHITECTURAL, MECHANICAL & ELECTRICAL DRAWINGS TOGETHER FOR EXTENT AND COORDINATION OF WORK AND INTERFACING OF MATERIALS. CLAIMS FOR EXTRA ARCHITECTURAL WORK RELATED TO ELECTRICAL & MECHANICAL SYSTEMS WHICH ARE SHOWN OR IMPLIED ON THEIR RESPECTIVE DRAWINGS WILL NOT BE ENTERTAINED.
- B THE TERM "DRYWALL" SHALL DENOTE GYPSUM WALL BOARD WHICH HAS BEEN TAPED, FILLED & SANDED.
- C COORDINATE ALL DIMENSIONS & DETAILS BETWEEN ARCHITECTURAL, MECHANICAL & ELECTRICAL.
- D INSTALL WOOD BLOCKING IN STUD SPACE OF ALL METAL STUD WALLS FOR ANCHORAGE OF CABINETS, RAILINGS, EQUIPMENT, SHELVING ETC.
- E +/- DIMENSION DENOTES NO MORE THAN 1/2" (13mm) TOLERANCE.
- F ALL EXTERIOR DIMENSIONS ARE TO GRID LINES OR FACE OF EXTERIOR SHEATHING/CONCRETE UNLESS INDICATED OTHERWISE.
- G THE BUILDING SITE SHALL BE GRADED SO THAT SURFACE, SUMP AND ROOF DRAINAGE WILL NOT ACCUMULATE AT OR NEAR THE BUILDING AND WILL NOT DRAIN ONTO OR ADVERSELY AFFECT SIDEWALKS, DRIVEWAYS, STAIRWAYS OR ADJACENT PROPERTIES.
- H THE REQUIREMENTS OF THE 2012 BC BUILDING CODE AS CURRENTLY ADOPTED ARE CONSIDERED TO BE THE MINIMUM STANDARDS TO BE MET.
- I VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE PRIOR TO CONSTRUCTION. NOTIFY THE CONSULTANT OF ANY DISCREPANCIES BETWEEN THE SITE CONDITIONS AND THE ASSUMED DESIGN CONDITIONS PRIOR TO COMMENCING WORK.

**TYPICAL ABBREVIATIONS**

- AFF ABOVE FINISHED FLOOR
- AHJ AUTHORITIES HAVING JURISDICTION
- B/S BOTH SIDES
- BCBC BRITISH COLUMBIA BUILDING CODE (CURRENT EDITION)
- BF BARRIER FREE
- C/W COMPLETE WITH
- CJ CONTROL JOINT
- CL CENTRE LINE
- CLR DENOTES 'CLEAR' DIMENSION REQUIRED
- CONC CONCRETE
- D/W DRYWALL
- FRR FIRE RESISTANCE RATING
- HB HOSE BIB
- M OR (m) METRE
- MM OR (mm) MILLIMETRES
- PL PROPERTY LINE
- PT PRESSURE TREATED
- RD ROOF DRAIN
- RP ROCK PIT
- RWL RAIN WATER LEADER
- SC SMALL CAR
- SM SQUARE METRES
- T/O TOP OF TYPICAL
- U/S UNDERSIDE
- UNO UNLESS NOTED OTHERWISE
- W/ WITH
- WD WOOD

**DEMOLITION PLAN LEGEND**



**MATERIAL ABBREVIATIONS**

- AC ACRYLIC SCREEN
- CPT CARPET
- EF ENTRANCE FLOORING
- PT PAINT
- RF RESILIENT FLOORING
- RB RUBBER BASE
- SS SOLID SURFACE
- T TILE - PORCELAIN & CERAMIC
- TB TILE BASE - PORCELAIN & CERAMIC
- TR FLOOR TRANSITION - AS SCHEDULED
- WP WALL PROTECTION
- WD WOOD

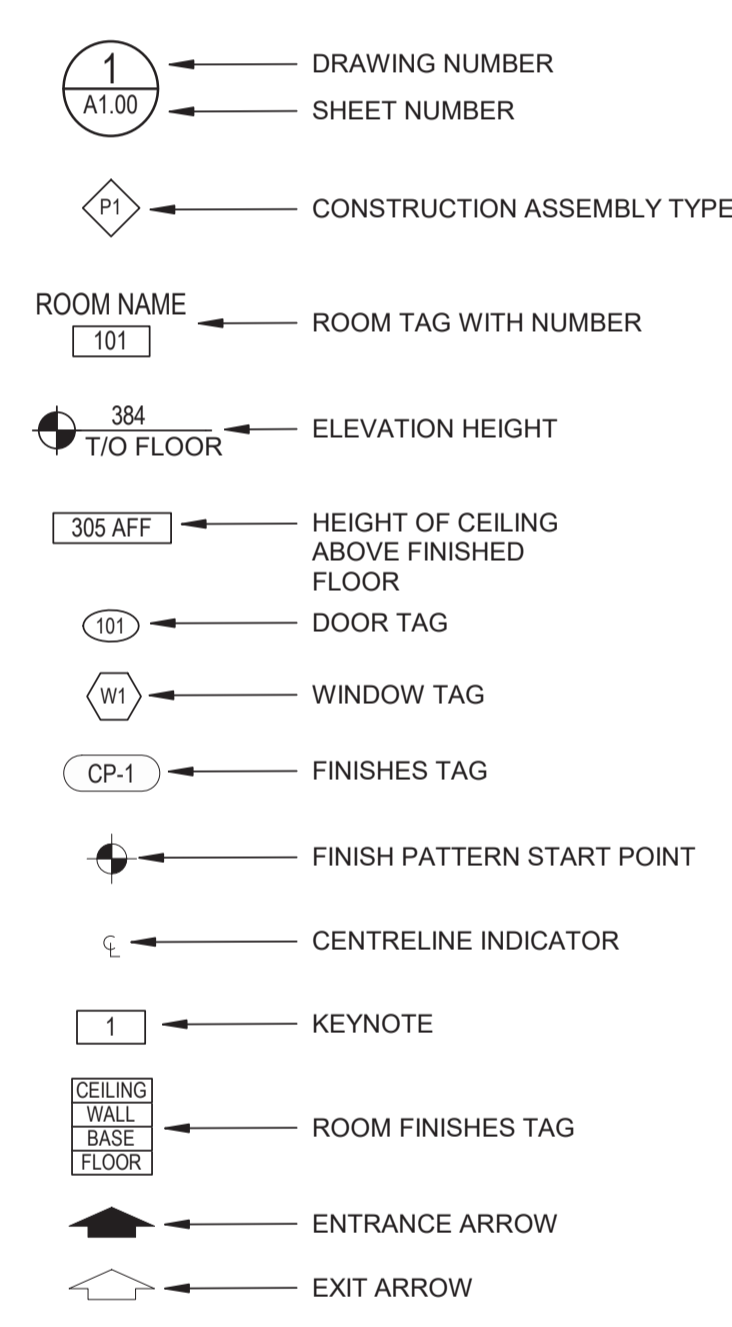
**DEMOLITION KEYNOTES**

- DM2 REMOVE & DISPOSE OF EXISTING CARPET
- DM3 DEMOLISH & DISPOSE OF EXISTING TILE
- DM4 REMOVE & DISPOSE OF EXISTING BASE (TYP)
- DM5 DEMOLISH & DISPOSE OF EXISTING MILLWORK
- DM6 DEMOLISH & DISPOSE OF EXISTING WINDOW
- DM7 REMOVE & DISPOSE OF EXISTING BI-FOLD DOORS
- DM8 DEMOLISH & DISPOSE OF EXISTING WALL
- DM9 REMOVE & DISPOSE OF ALL PLUMBING FIXTURES (TYP)
- DM10 REMOVE & DISPOSE OF ALL WASHROOM ACCESSORIES (TYP)
- DM11 DEMOLISH & DISPOSE OF EXISTING WALL TILES (TYP FOR WASHROOM AREAS)
- DM12 REMOVE & DISPOSE OF EXISTING TOILET PARTITIONS
- DM13 REMOVE & DISPOSE OF EXISTING LOCKERS
- DM14 DEMOLISH & DISPOSE OF EXISTING CMU BENCH
- DM15 DEMOLISH & DISPOSE OF EXISTING CURB & RAISED FLOOR
- DM16 REMOVE & RETAIN EXISTING DOOR FOR RE-USE
- DM17 DEMOLISH & DISPOSE OF EXISTING DOOR
- DM18 DEMOLISH & DISPOSE OF EXISTING ASPHALT SIDEWALK
- DM19 REMOVE & RETAIN EXISTING BIKE RACK FOR RE-USE
- DM20 DEMOLISH & DISPOSE OF EXISTING DRYWALL CEILING
- DM21 DEMOLISH & DISPOSE OF EXISTING T-BAR CEILING
- DM22 REMOVE & RETAIN EXISTING PROJECTOR & SCREEN FOR RE-USE
- DM24 EXISTING CEILING TO REMAIN
- DM26 DEMOLISH & DISPOSE OF EXISTING CANOPY

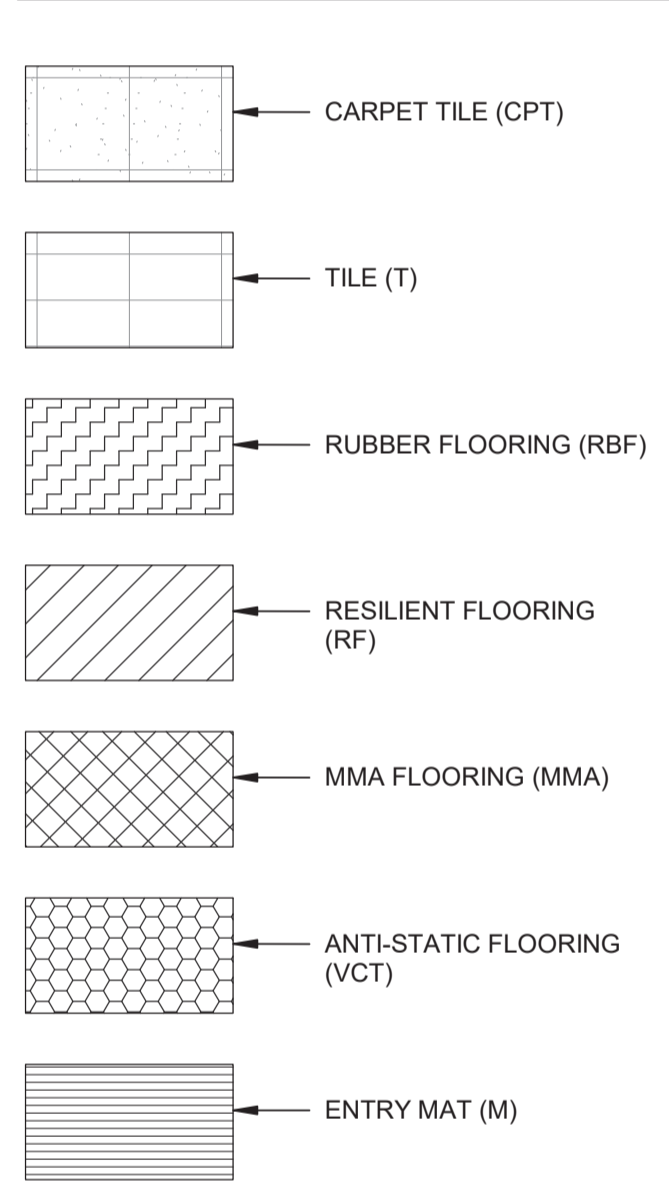
**GENERAL DEMOLITION NOTES**

- A SITE EXAMINE & RECORD LOCATIONS, CONDITIONS, ETC. OF ALL ELEMENTS WHICH MUST BE REMOVED THEN REINSTALLED AND MADE GOOD AFTER RETROFIT WORK.
- B WHERE EXISTING WALLS, PIPING, DUCTWORK, WIRING, APPLIED ITEMS & OTHER ELEMENTS ARE REMOVED, PATCH & MAKE GOOD AFFECTED SERVICES WHICH ARE TO REMAIN. PATCHING & REMEDIAL MATERIALS SHALL MATCH ADJACENT EXISTING UNLESS OTHERWISE NOTED.
- C ENSURE THAT EXISTING WALLS SCHEDULE TO RECEIVE NEW PAINT OR OTHER FINISHES ARE SMOOTH, TRUE TO PLANARITY & FREE OF DIRT & DEFECTS. WHERE THESE CONDITIONS CANNOT BE SATISFACTORILY MET BY PATCHING OR WHERE EXISTING SUBSTRATE IS NOT APPROPRIATE FOR NEW FINISH, INSTALL NEW DRYWALL TO SUBSTRATE BY MEANS OF 7/8" METAL FURRING CHANNELS @ 16" O.C
- D CAREFULLY REMOVE ALL WALLS & ELEMENTS CONTAINING EXISTING PIPING, WIRING, DUCTWORK, ETC.. TEMPORARILY STORE, PROTECT & REINSTALL SAID UTILITIES IN THOSE AREAS WHERE EXISTING WALLS ARE BEING REPLACED BY NEW RETROFIT WALLS. COORDINATE THIS WORK WITH ELECTRICAL & MECHANICAL TRADES & CONSULTANTS.
- E PROTECT ALL EXISTING ELEMENTS & FINISHES NOT SCHEDULED FOR RETROFIT & STORE WHERE DIRECTED AS REQUIRED. MAKE GOOD WHERE DAMAGED.
- F LAYOUT & EXECUTE ALL CUTTING & DEMOLITION SUCH AS TO CAUSE THE LEAST AMOUNT OF DISRUPTION TO REMAINING EXISTING FINISHES, MATERIALS, ELEMENTS & EQUIPMENT.
- G GENERAL CONTRACTOR SHALL REMOVE EXISTING ARCHITECTURAL ELEMENTS SUCH AS CEILINGS, WALLS & VALANCES FOR INSTALLATION OF MECHANICAL & FIRE PROTECTION SYSTEMS. AFTER INSTALLATION & TESTING OF SAID SYSTEMS, GENERAL CONTRACTOR SHALL REINSTALL & MAKE GOOD THESE ELEMENTS, AND MAINTAIN REQUIRED FIRE RATING OF EXISTING COMPONENT.
- H CERTAIN NEW PIPING & DUCTWORK WILL REQUIRE CONCEALMENT BY NEW VALANCES & SUSPENDED CEILINGS.

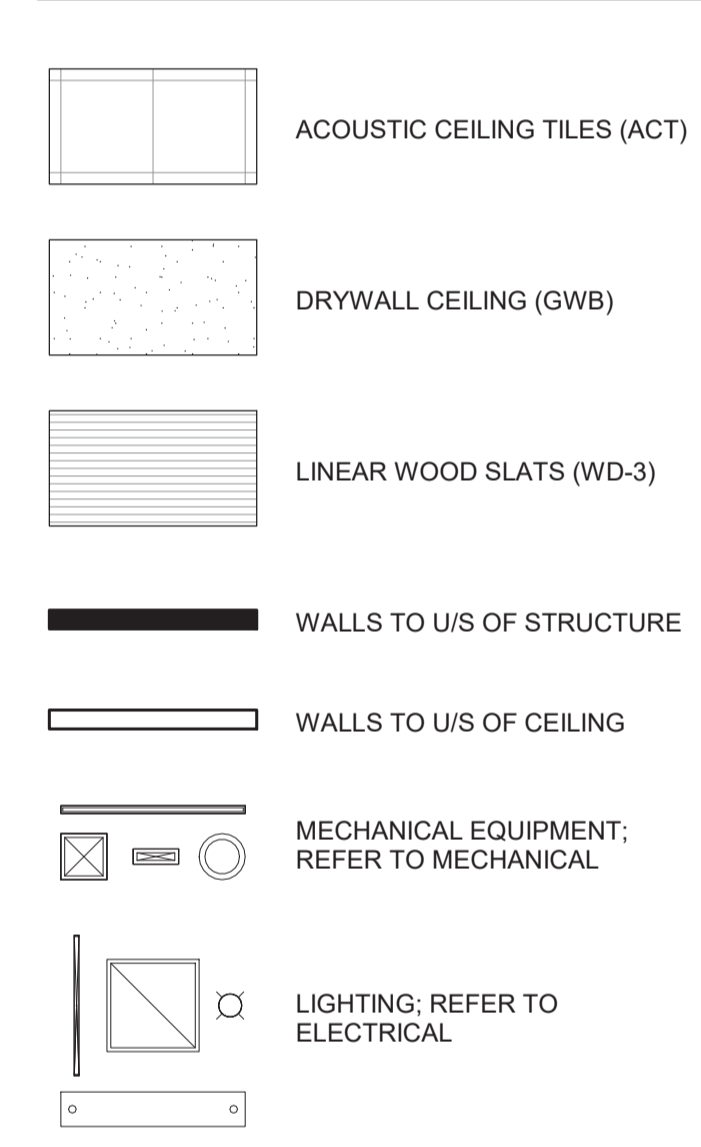
**GENERAL SYMBOL LEGEND**



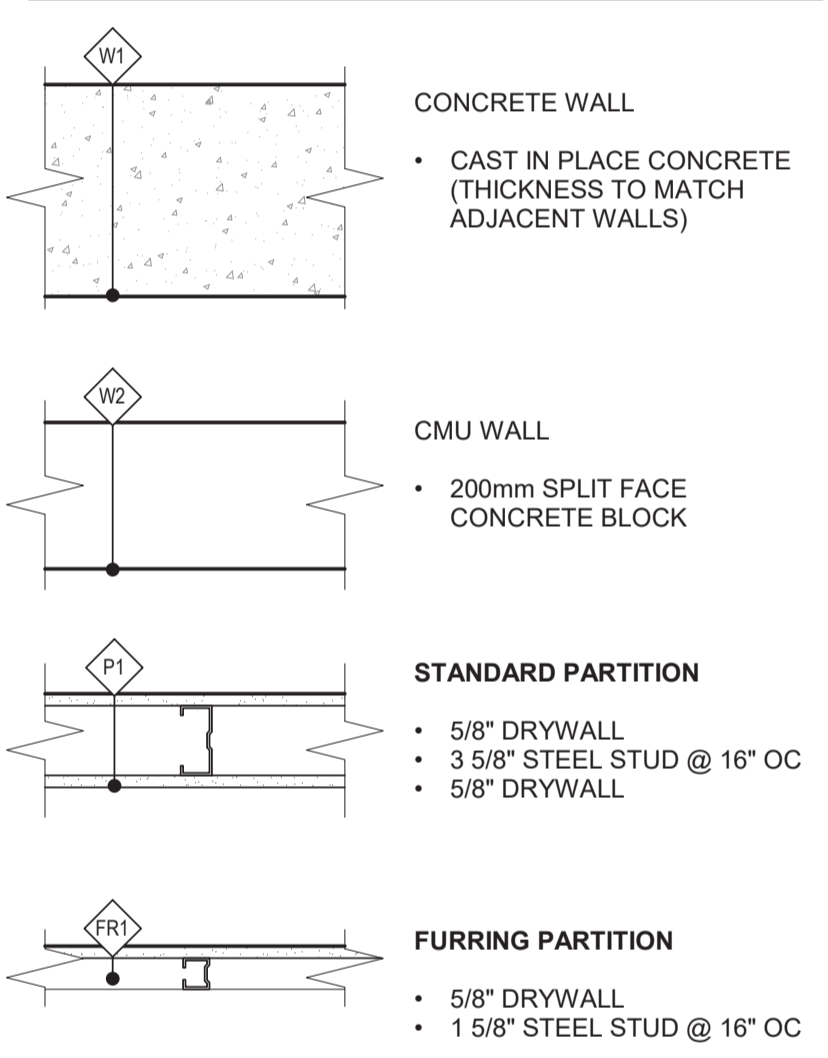
**FLOOR FINISHES LEGEND**



**RCP LEGEND**



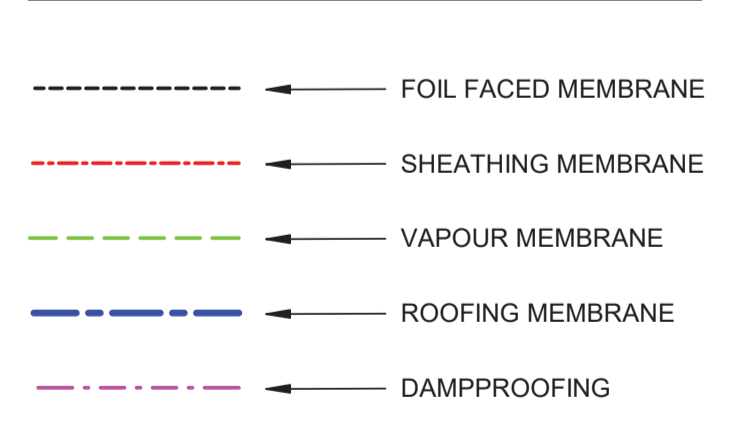
**PARTITION SCHEDULE**



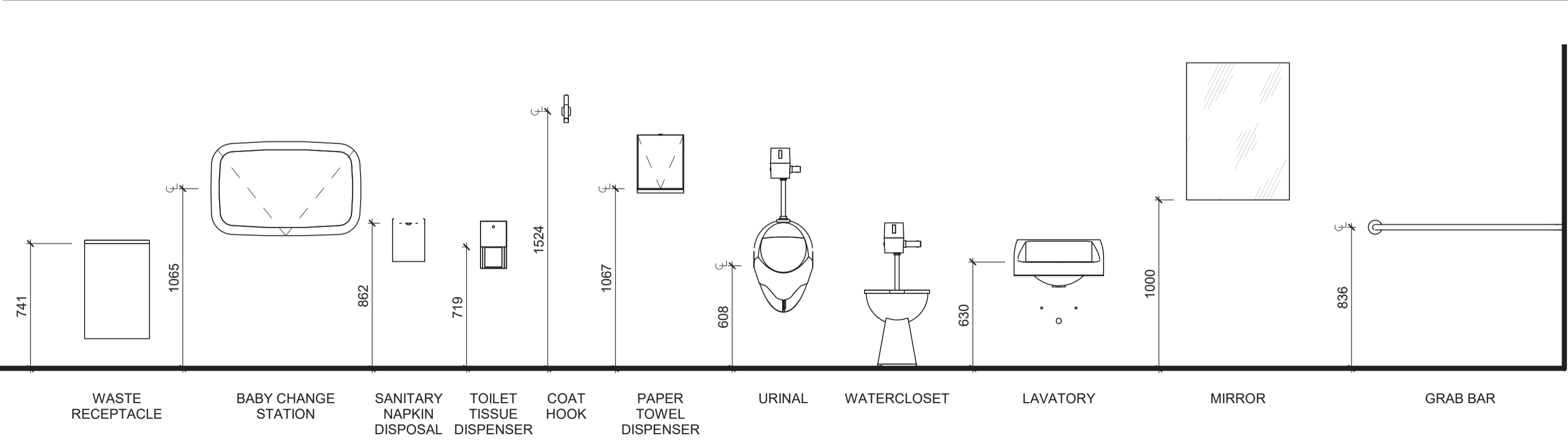
**GENERAL RCP NOTES**

- A REFER TO MECHANICAL & ELECTRICAL DRAWINGS/DOCUMENTS FOR ALL ADDITIONAL INFORMATION PERTAINING TO THESE DISCIPLINES. ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS SHALL BE REPORTED TO THE CONSULTANTS IMMEDIATELY.
- B FINAL LOCATIONS OF LIGHT FIXTURES IN DRYWALL CEILING(S) TO BE REVIEWED & APPROVED BY CONSULTANT PRIOR TO INSTALLATION
- C REFER TO MECHANICAL & ELECTRICAL DOCUMENTS FOR ALL FIXTURE SPECIFICATIONS

**MEMBRANE LEGEND**



**WASHROOM MOUNTING HEIGHTS**



PLEASE NOTE THAT THIS SHEET IS FOR REFERENCE ONLY; SYMBOLS & FINISHES SHOWN ON THIS SHEET MAY NOT BE INCLUDED IN THE DRAWING SET. MEMBRANE LINES HAVE BEEN SHOWN IN COLOUR FOR GREATER CLARITY, BUT HAVE BEEN GIVEN DISTINCT LINE TYPES SO THEY CAN BE READ IN BLACK & WHITE.

Revision/Revision	Description/Description	Date/Date
1	ISSUED FOR TENDER	2018.05.09

**FISHERIES & OCEANS CANADA**  
200-401 BURRARD STREET VANCOUVER, BC V6C 3R2

Project title/Titre du projet  
**4160 MARINE DRIVE WEST VANCOUVER, BC V7V 1H2**

**PSEC - CLASSROOM ADDITION & RENOVATION**

Consultant Signature Box Only  
Designed by/Concept par **MIKE MAMMONE**  
Drawn by/Dessiné par **DEACON GREEN**  
PWGSC Project Manager/Administrateur de Projets TP5GC  
PWGSC, Regional Manager, Architectural and Engineering Services/Gestionnaire régional, services d'architectural et de génie, TP5GC

Drawing title/Titre du dessin

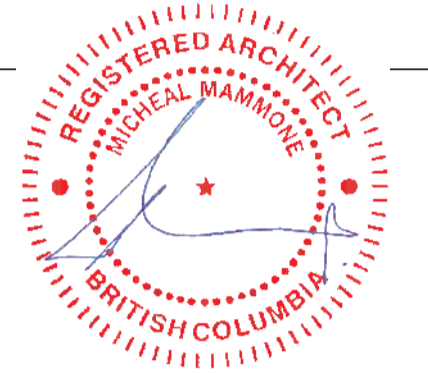
**GENERAL NOTES & LEGENDS**

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
<b>Client Number</b> O4A: 1712-009	<b>A0.01</b> OF 10	<b>1</b>

Consultant



Seal



Revision/Revision	Description/Description	Date/Date
1	ISSUED FOR TENDER	2018.05.09

Client/client

**FISHERIES & OCEANS CANADA**

200-401 BURNARD STREET  
VANCOUVER, BC V6C 3R2

Project title/Titre du projet

4160 MARINE DRIVE  
WEST VANCOUVER, BC V7V 1H2

**PSEC - CLASSROOM ADDITION & RENOVATION**

Consultant Signature Box Only

Designed by/Concept par

**MIKE MAMMONE**

Drawn by/Dessiné par

**DEACON GREEN**

PWGSC Project Manager/Administrateur de Projets TPSCG

PWGSC, Regional Manager, Architectural and Engineering Services / Gestionnaire régional, services d'architectural et de génie, TPSCG

Drawing title/Titre du dessin

**SITE PLAN & ROOF PLANS**

Project No./No. du projet

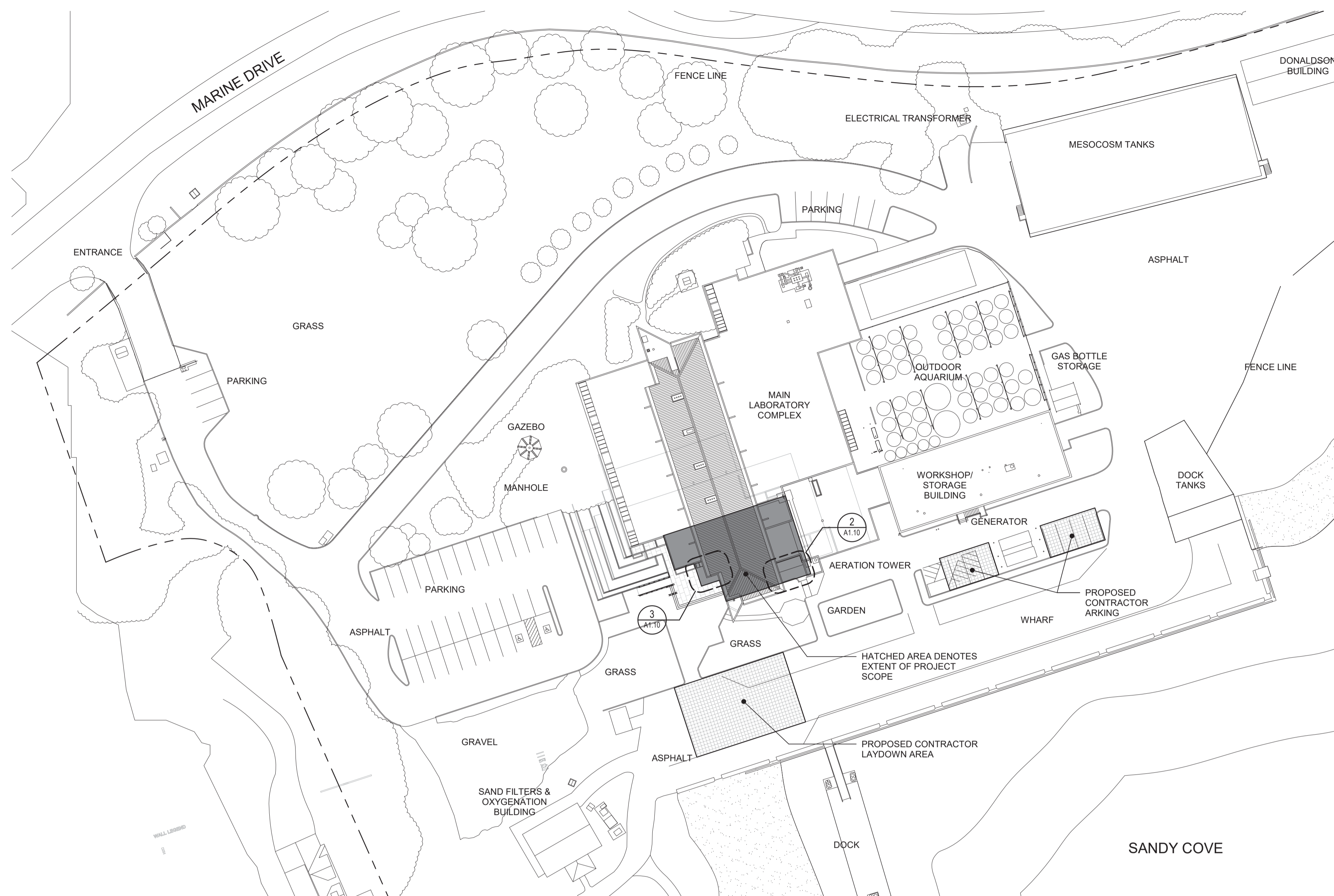
Client Number **A1.10**  
O4A: 1712-009

Sheet/Feuille

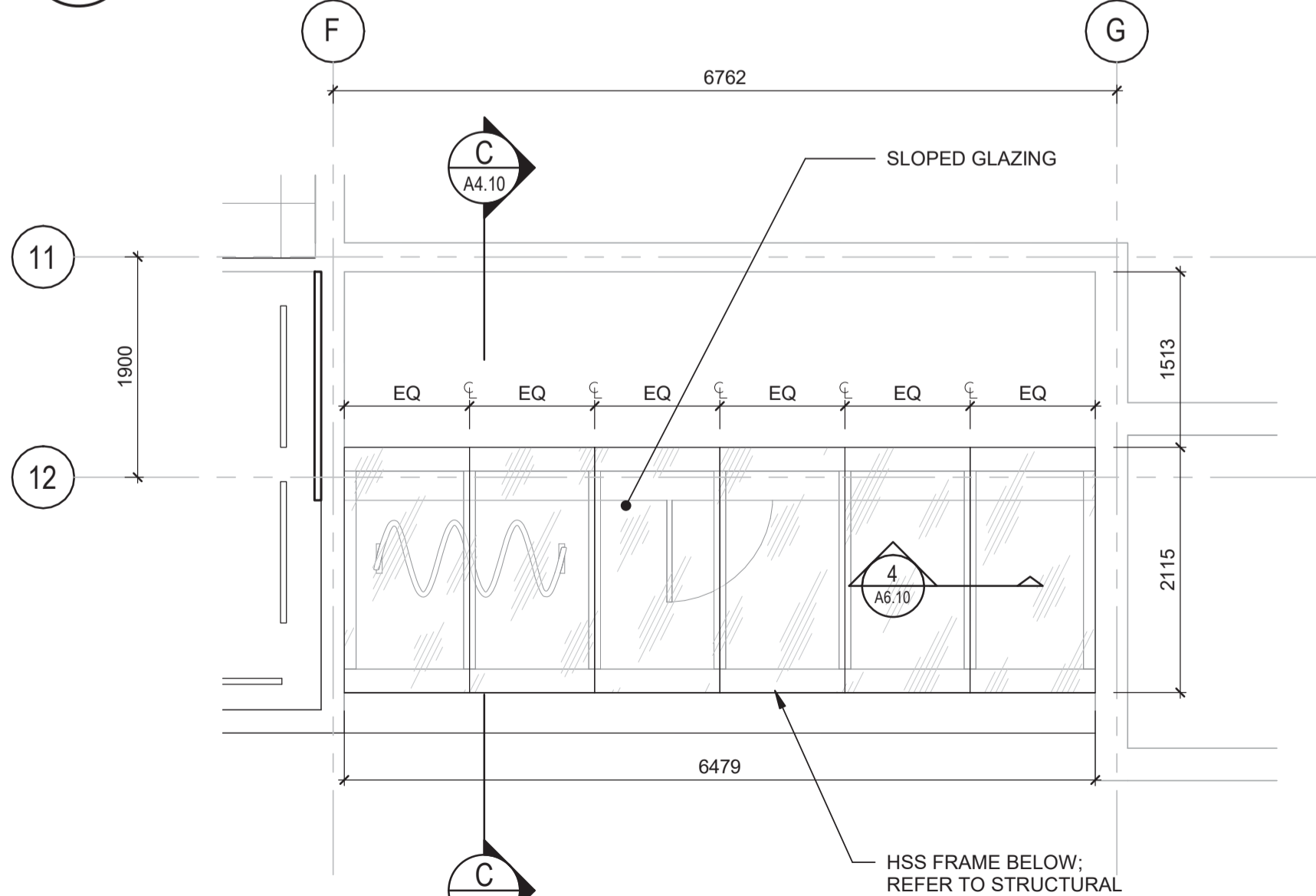
**A1.10**  
OF 10

Revision no./La Révision no.

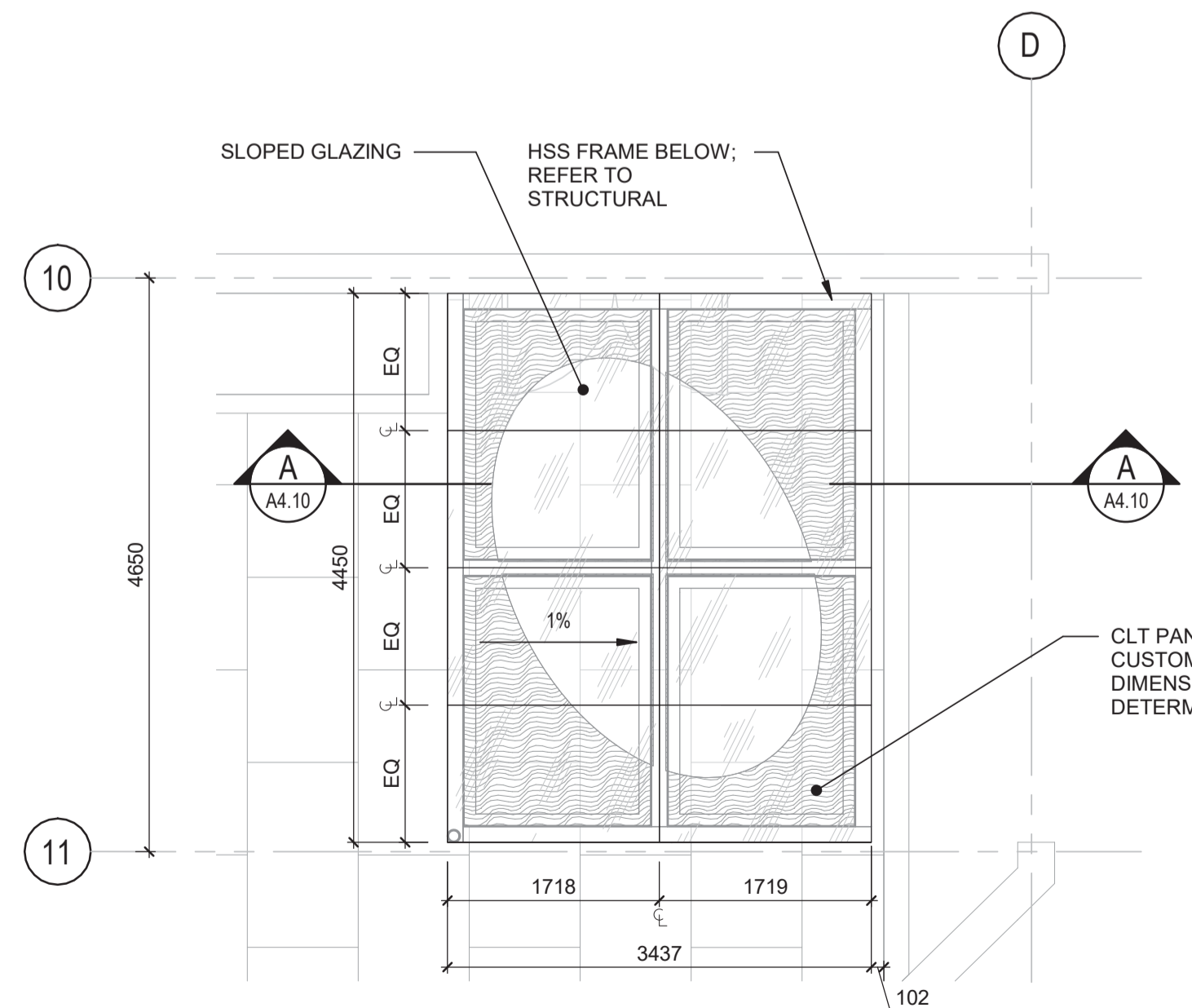
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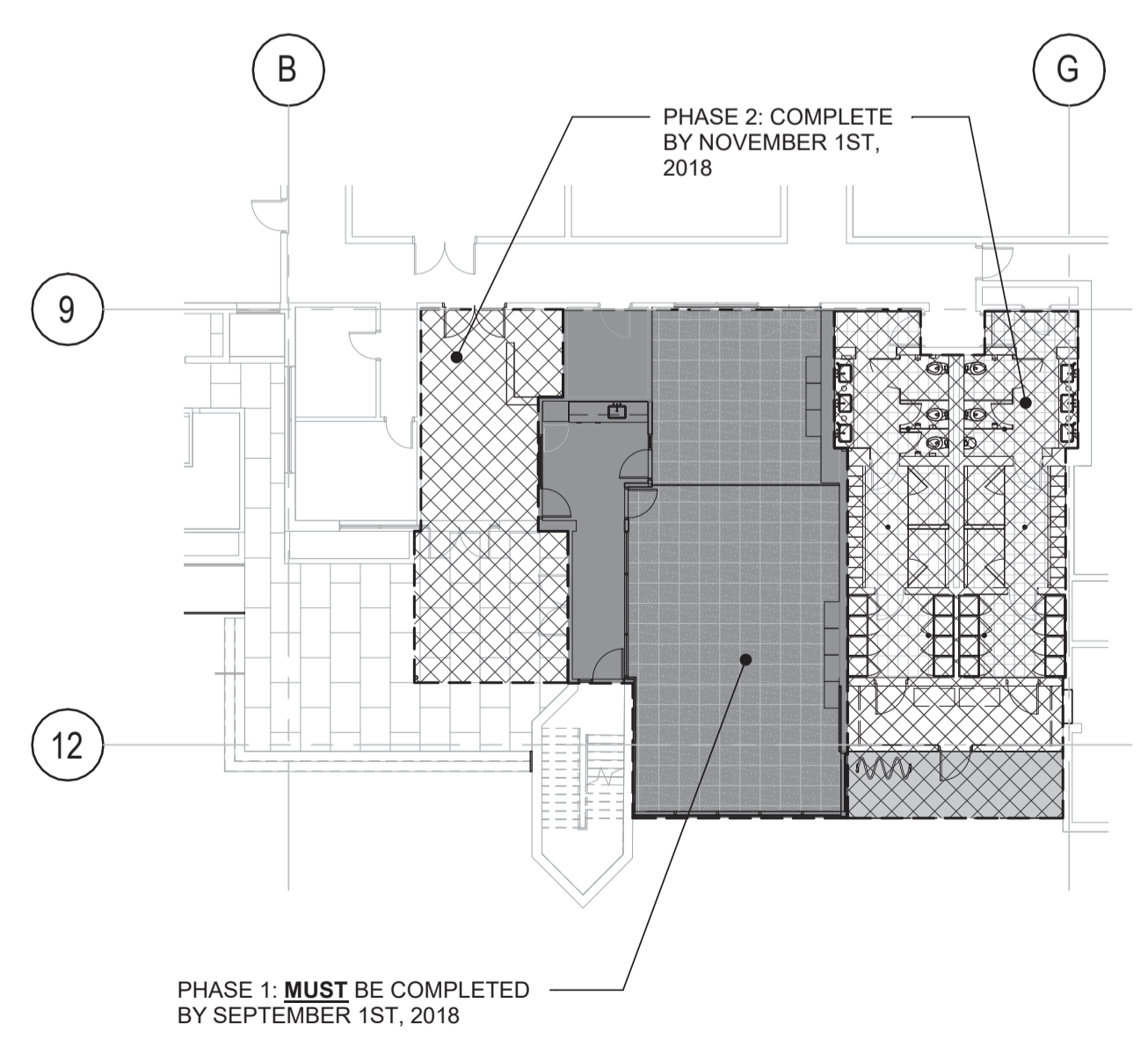
1 SITE PLAN  
A1.10 1:500



2 ENLARGED ROOF PLAN  
A1.10 1:50



3 ENLARGED CANOPY PLAN  
A1.10 1:50



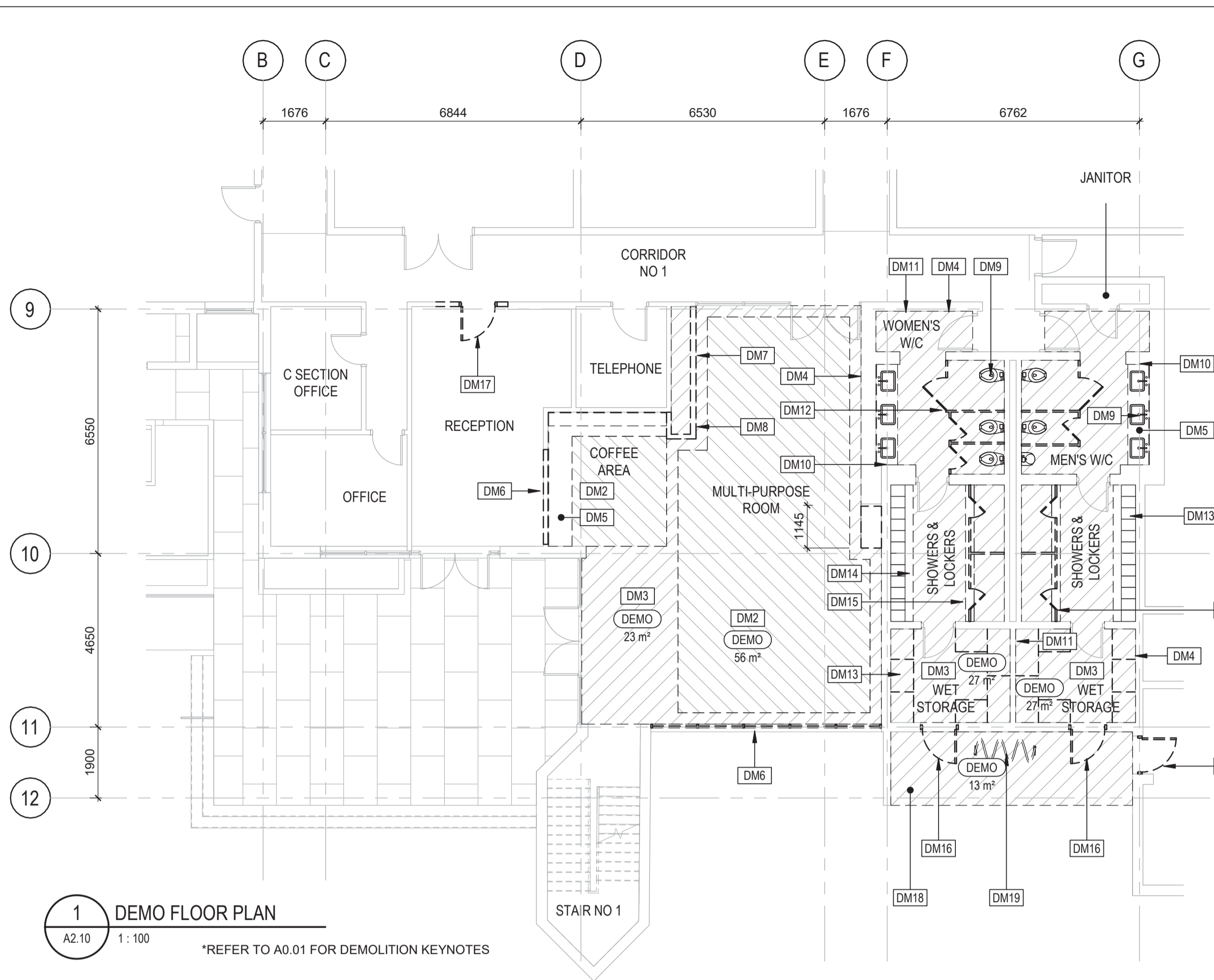
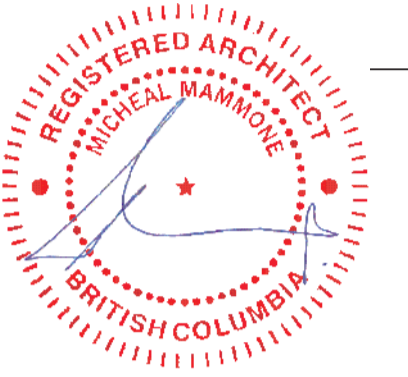
4 PHASING PLAN  
A1.10 1:200



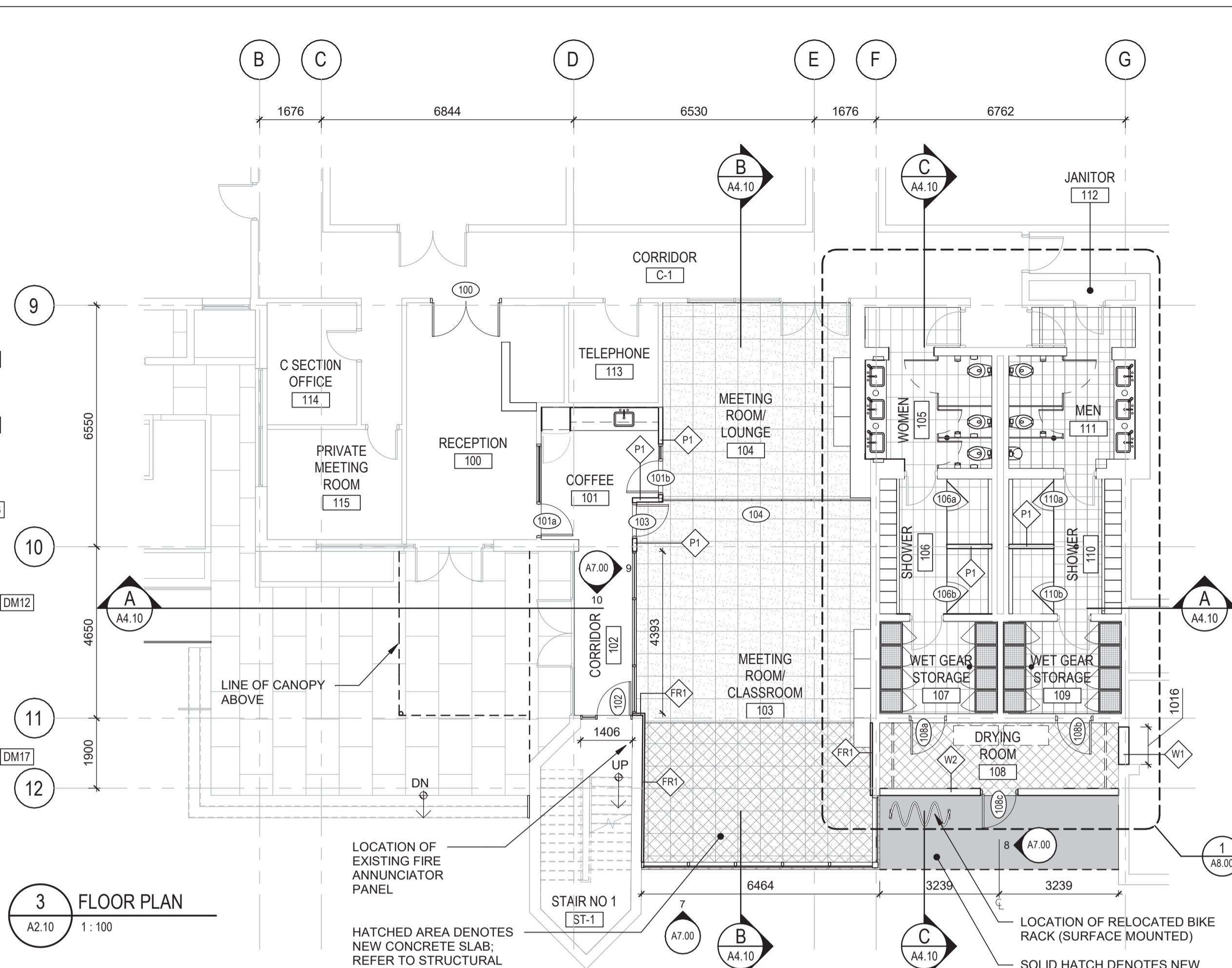
Consultant



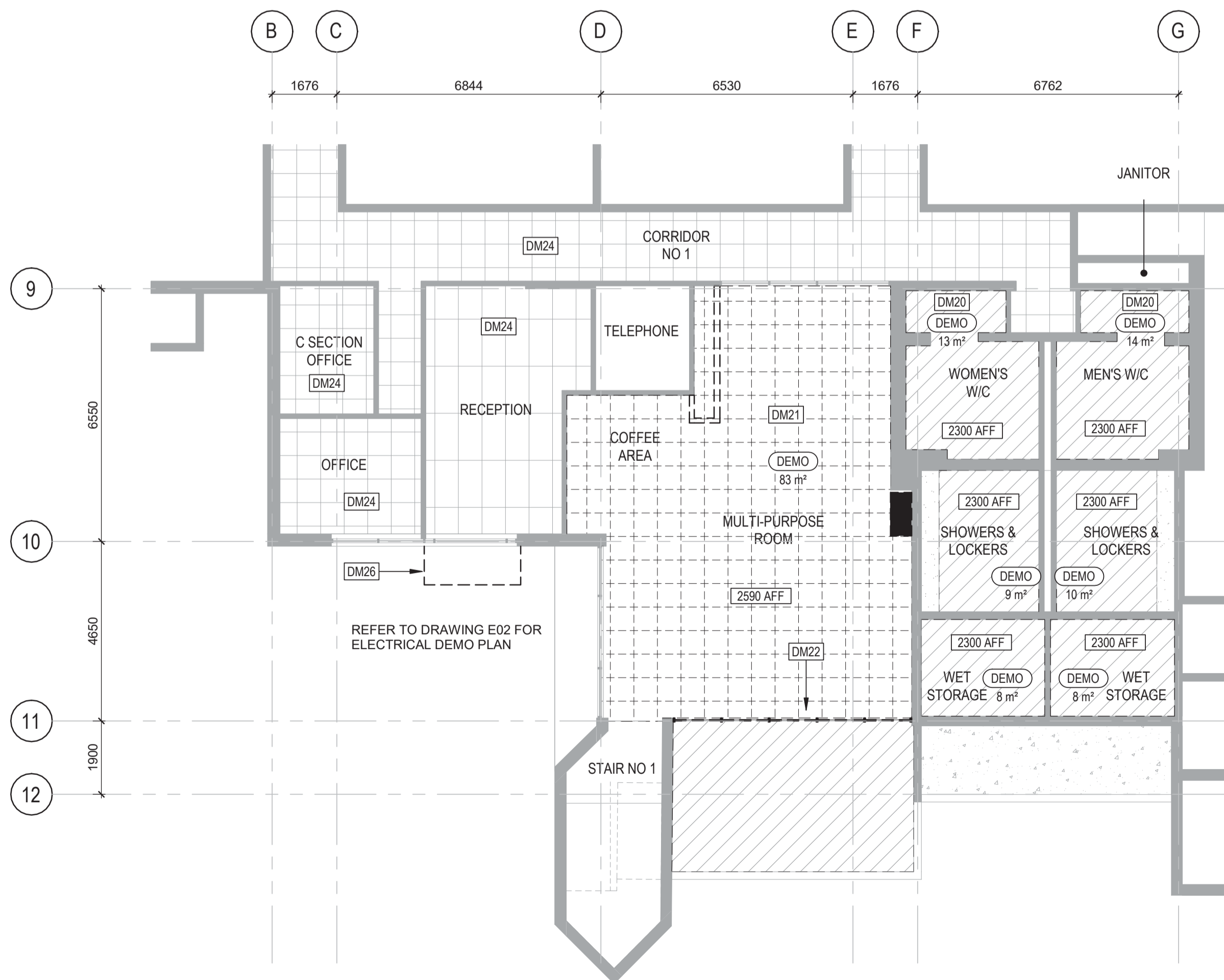
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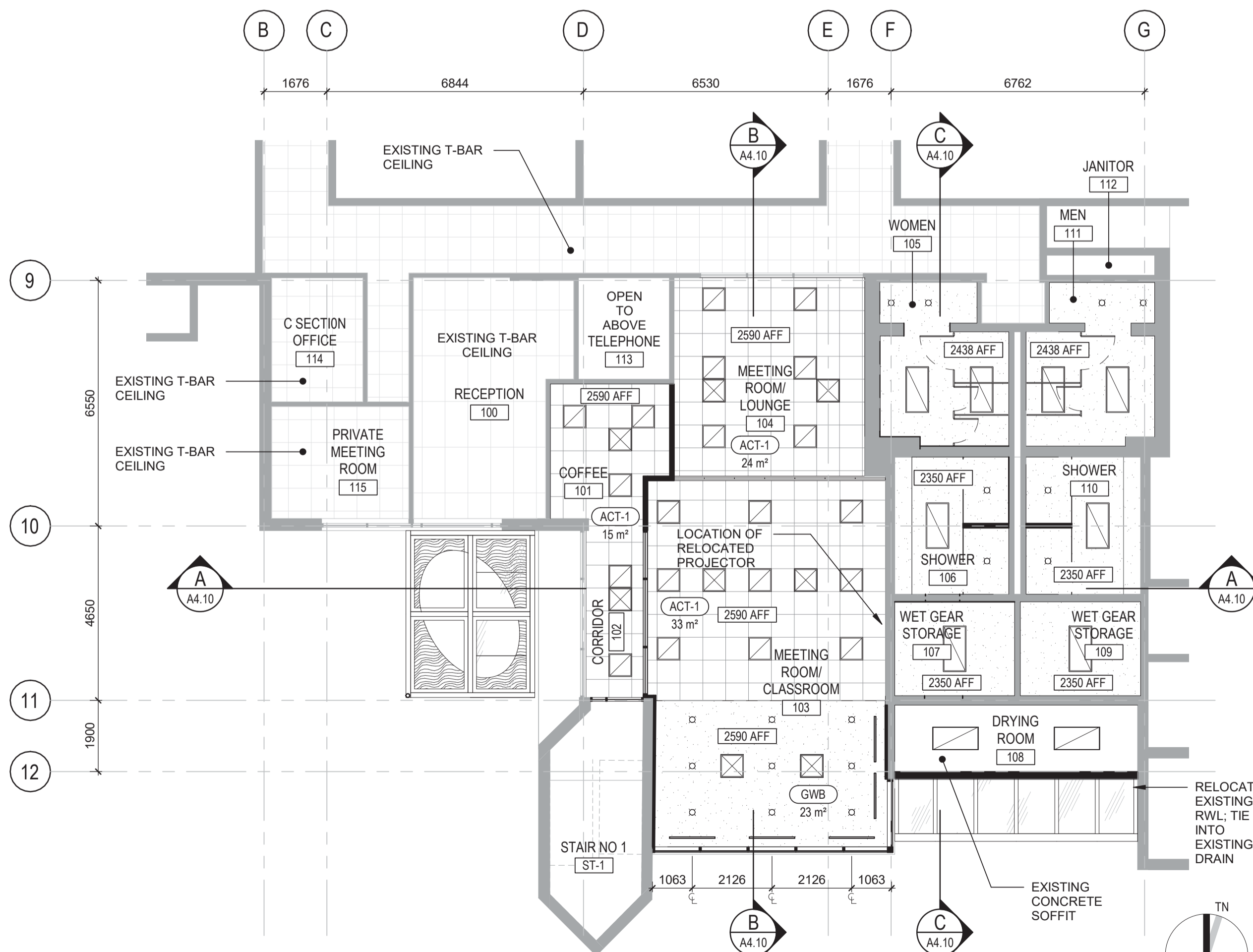
1 DEMO FLOOR PLAN  
A2.10 1:100 \*REFER TO A0.01 FOR DEMOLITION KEYNOTES



3 FLOOR PLAN  
A2.10 1:100



2 DEMO REFLECTED CEILING PLAN  
A2.10 1:100 \*REFER TO A0.01 FOR DEMOLITION KEYNOTES



4 REFLECTED CEILING PLAN  
A2.10 1:100

Revision/Revision	Description/Description	Date/Date
1	ISSUED FOR TENDER	2018.05.09

Client/client  
**FISHERIES & OCEANS CANADA**  
200-401 BARRARD STREET  
VANCOUVER, BC V6C 3R2

Project title/Titre du projet  
**4160 MARINE DRIVE  
WEST VANCOUVER, BC V7V 1H2**

**PSEC - CLASSROOM  
ADDITION & RENOVATION**

Consultant Signature Box Only  
Designed by/Concept par  
**MIKE MAMMONE**  
Drawn by/Dessiné par  
**DEACON GREEN**  
PWGSC Project Manager/Administrateur de Projets TPSSC  
PWGSC, Regional Manager, Architectural and Engineering Services/  
Gestionnaire régional, services d'architecture et de génie, TPSSC

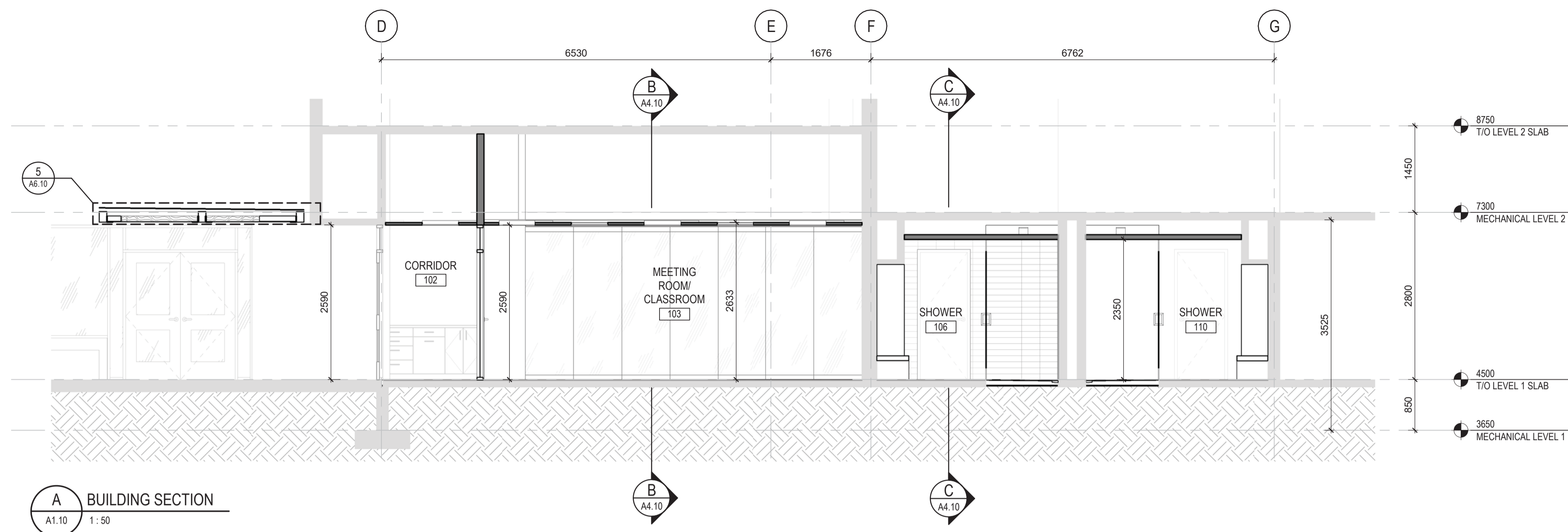
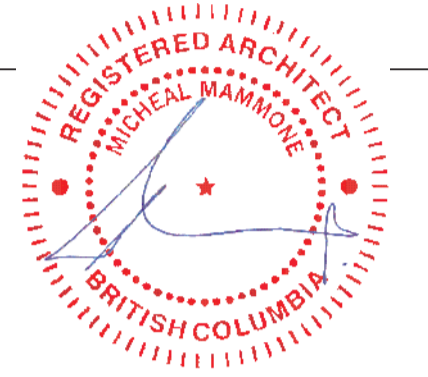
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**DEMOLITION &  
CONSTRUCTION PLANS**

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
Client Number 04A: 1712-009	<b>A2.10</b> OF 10	<b>1</b>

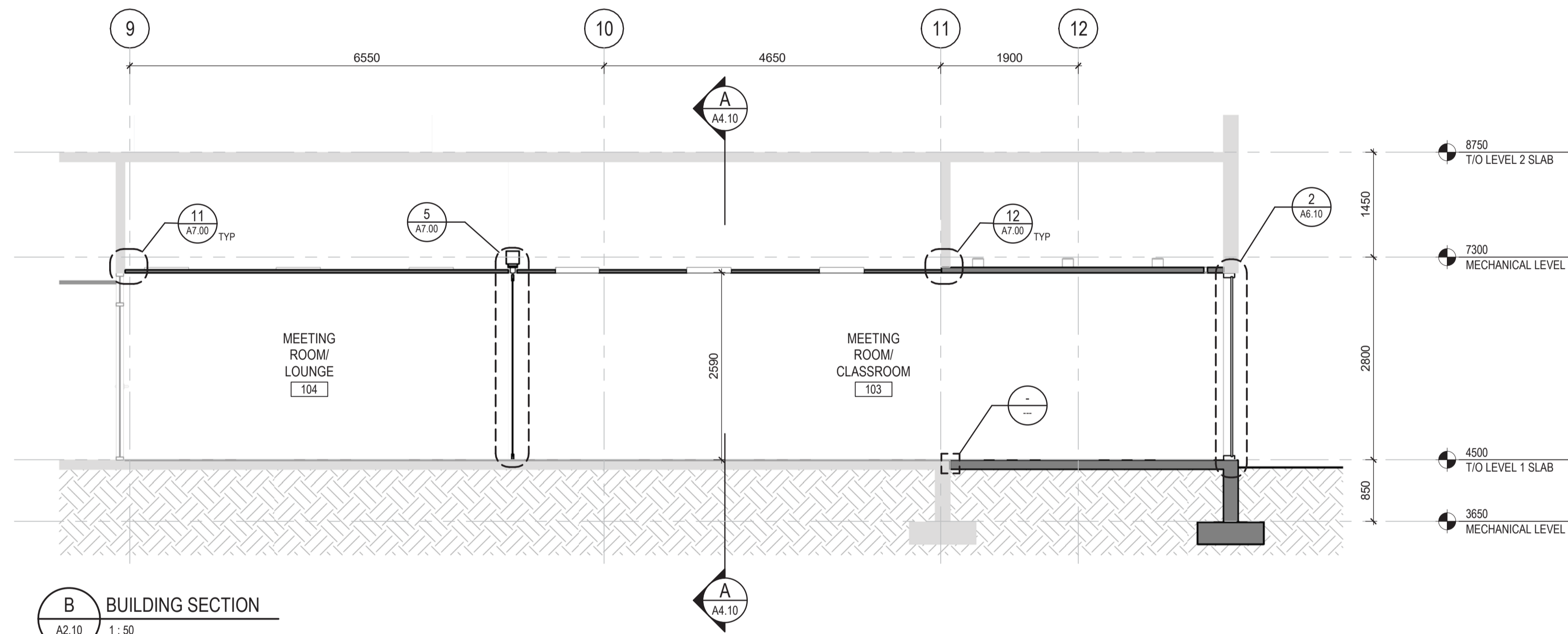
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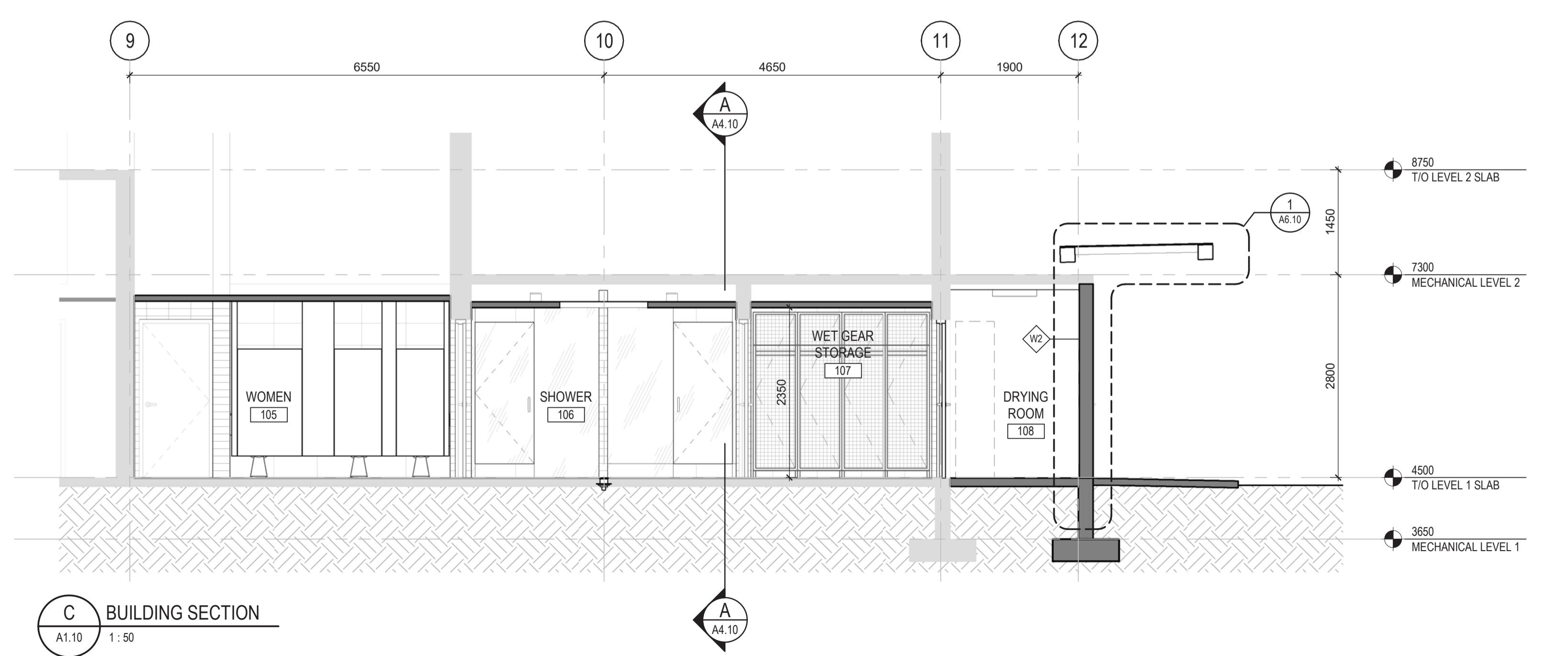
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**A BUILDING SECTION**  
A1.10 1:50



**B BUILDING SECTION**  
A2.10 1:50



**C BUILDING SECTION**  
A1.10 1:50

Revision/Revision	Description/Description	Date/Date
1	ISSUED FOR TENDER	2018.05.09

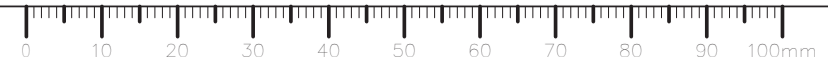
Client/client  
**FISHERIES & OCEANS CANADA**  
200-401 BARRARD STREET  
VANCOUVER, BC V6C 3R2

Project title/Titre du projet  
**4160 MARINE DRIVE  
WEST VANCOUVER, BC V7V 1H2**  
**PSEC - CLASSROOM  
ADDITION & RENOVATION**

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**DEACON GREEN**  
PWGSC Project Manager/Administrateur de Projets TPSSC  
PWGSC, Regional Manager, Architectural and Engineering Services/  
Gestionnaire régionale, services d'architecture et de génie, TPSSC

Drawing title/Titre du dessin  
**BUILDING SECTIONS**

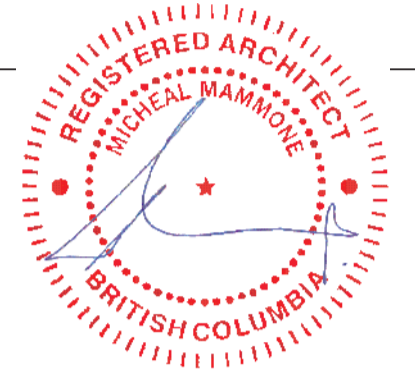
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<b>Client Number</b> O4A: 1712-009	<b>A4.10</b> OF 10	<b>1</b>



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1	ISSUED FOR TENDER	2018.05.09
Revision/Revision	Description/Description	Date/Date

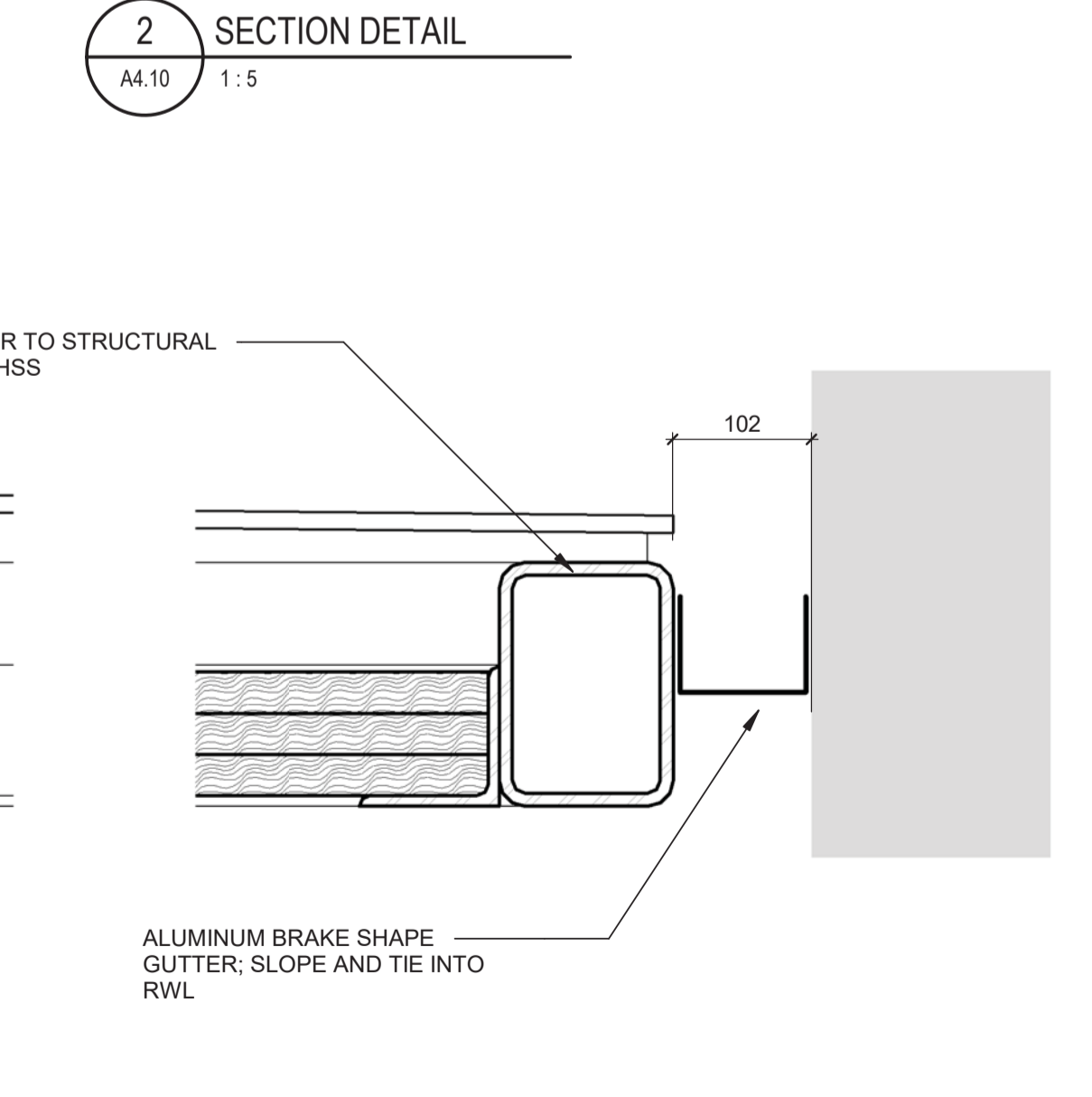
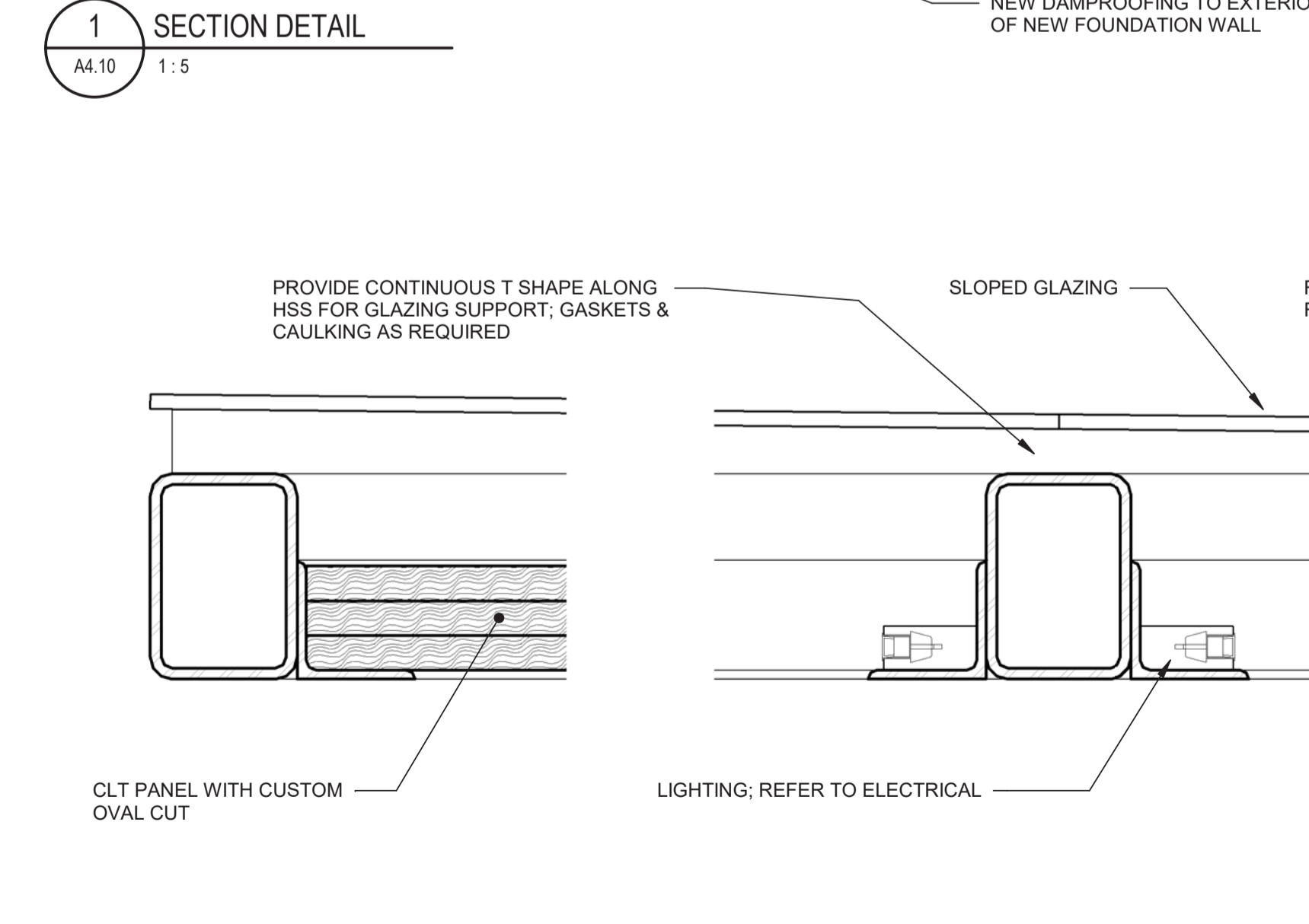
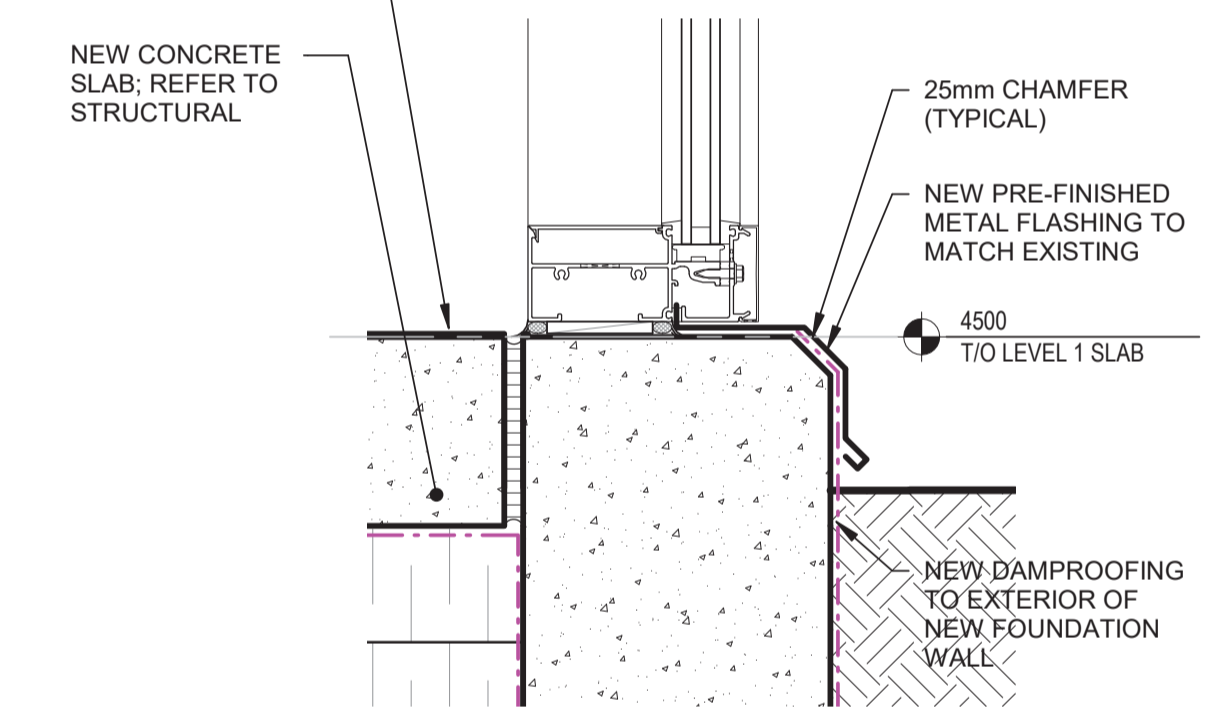
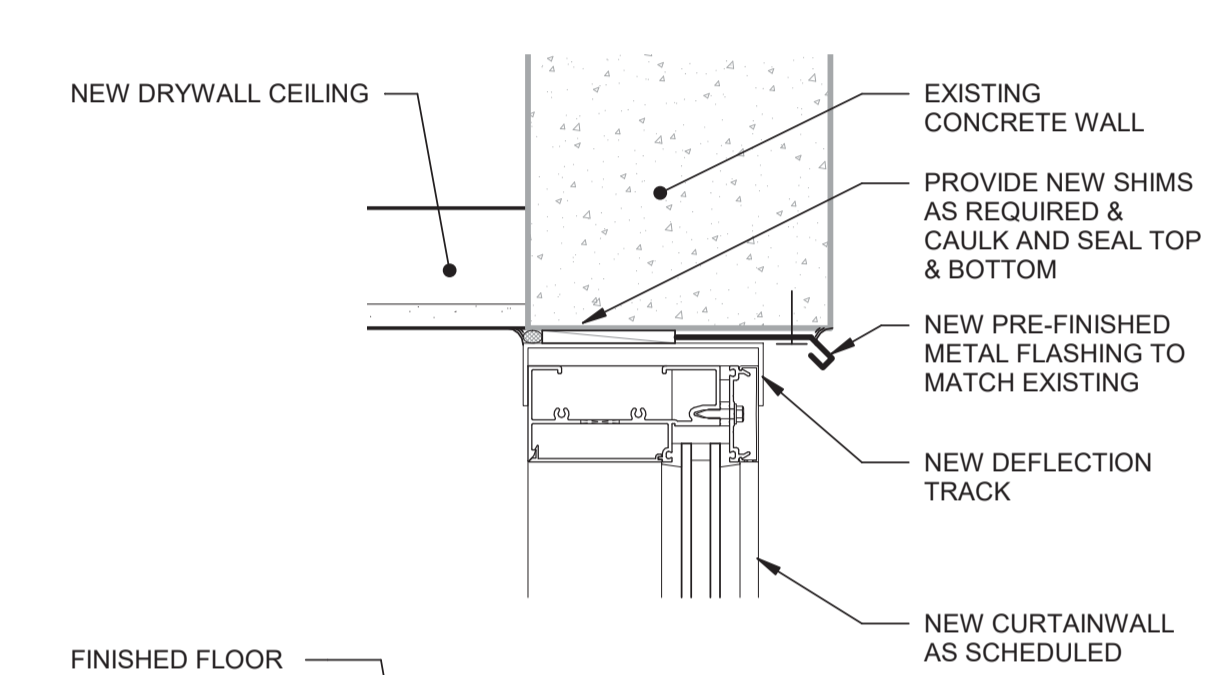
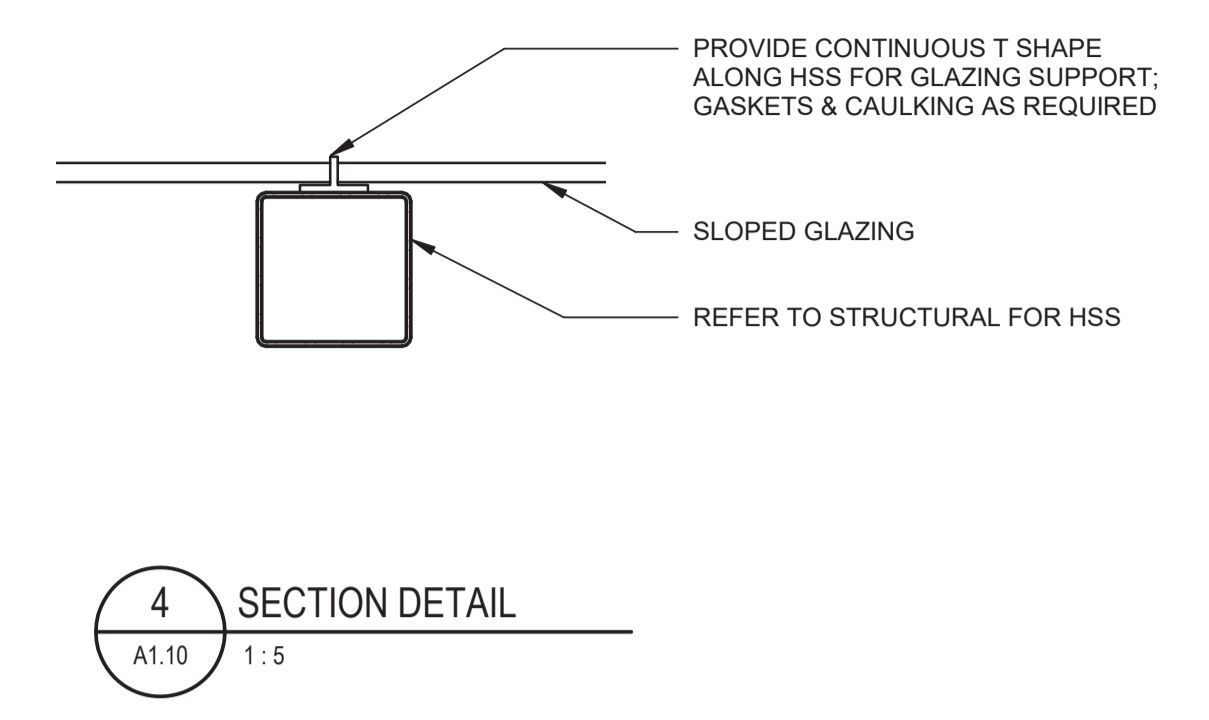
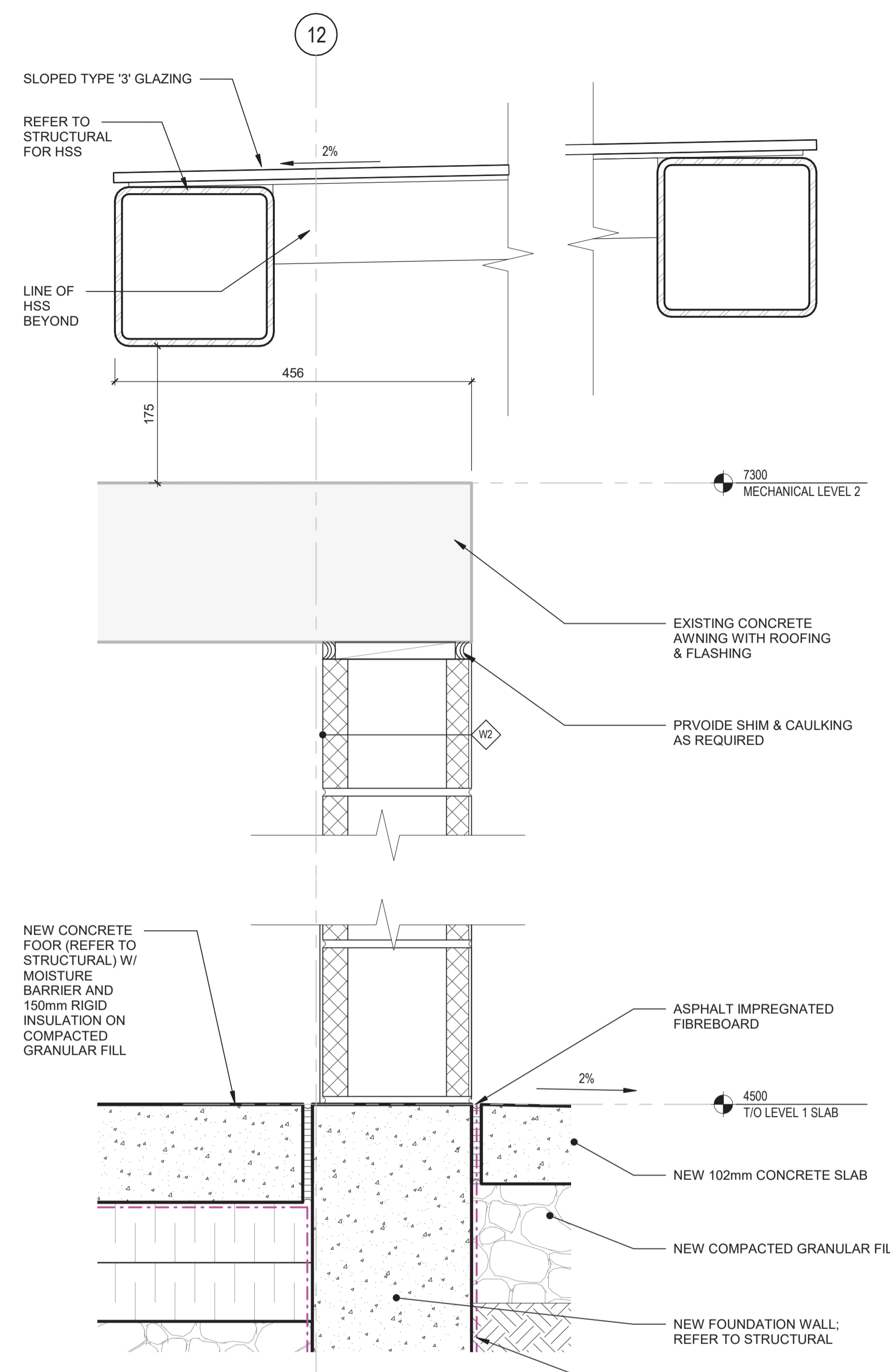
Client/client  
**FISHERIES & OCEANS CANADA**  
 200-401 BARRARD STREET  
 VANCOUVER, BC V6C 3R2

Project title/Titre du projet  
**4160 MARINE DRIVE  
 WEST VANCOUVER, BC V7V 1H2**  
**PSEC - CLASSROOM  
 ADDITION & RENOVATION**

Consultant Signature Box Only  
 Designed by/Concept par  
**MIKE MAMMONE**  
 Drawn by/Dessine par  
**DEACON GREEN**  
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Drawing title/Titre du dessin  
**EXTERIOR DETAILS**

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
<b>Client Number</b> O4A: 1712-009	<b>A6.10</b> OF 10	<b>1</b>

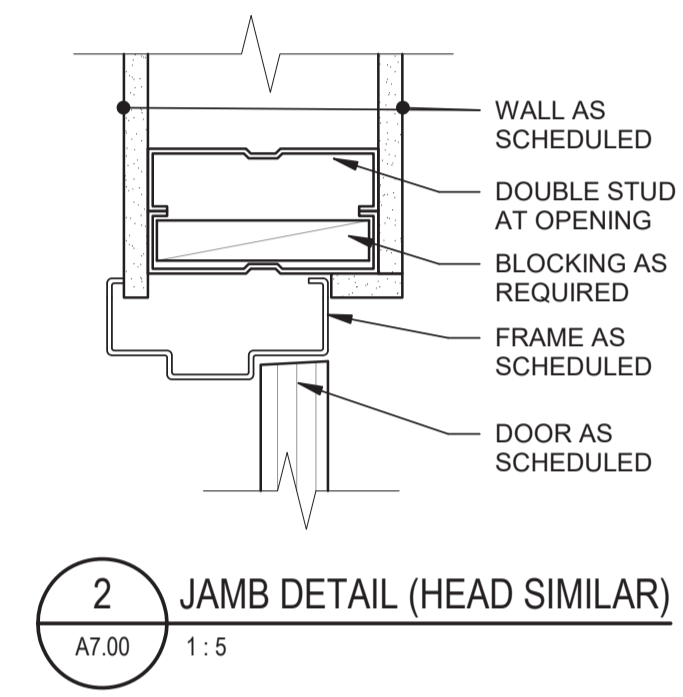
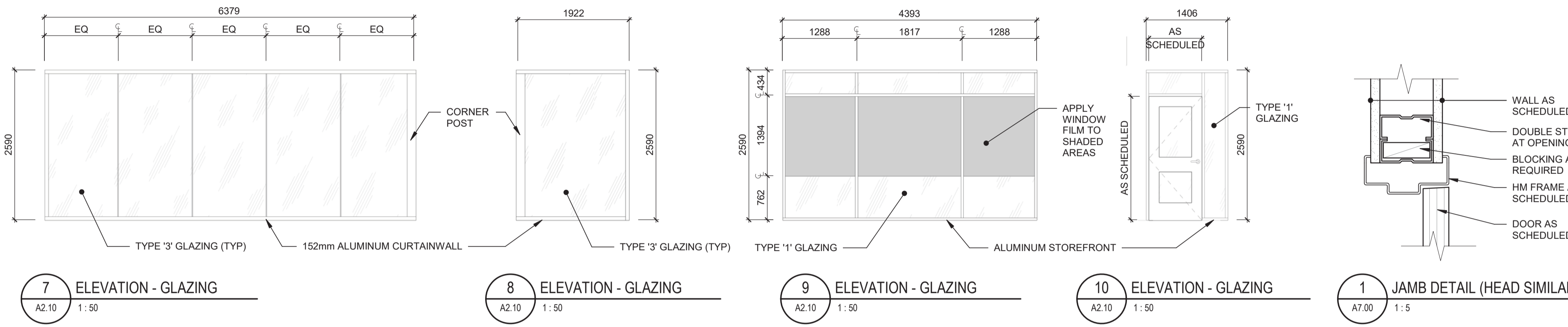
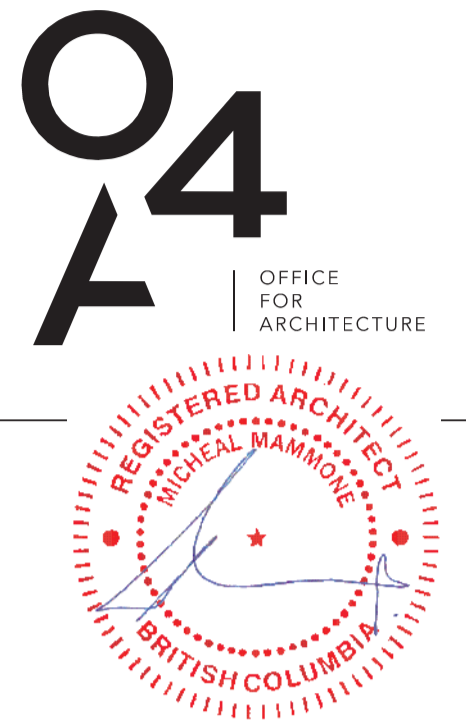


DOOR & FRAME SCHEDULE

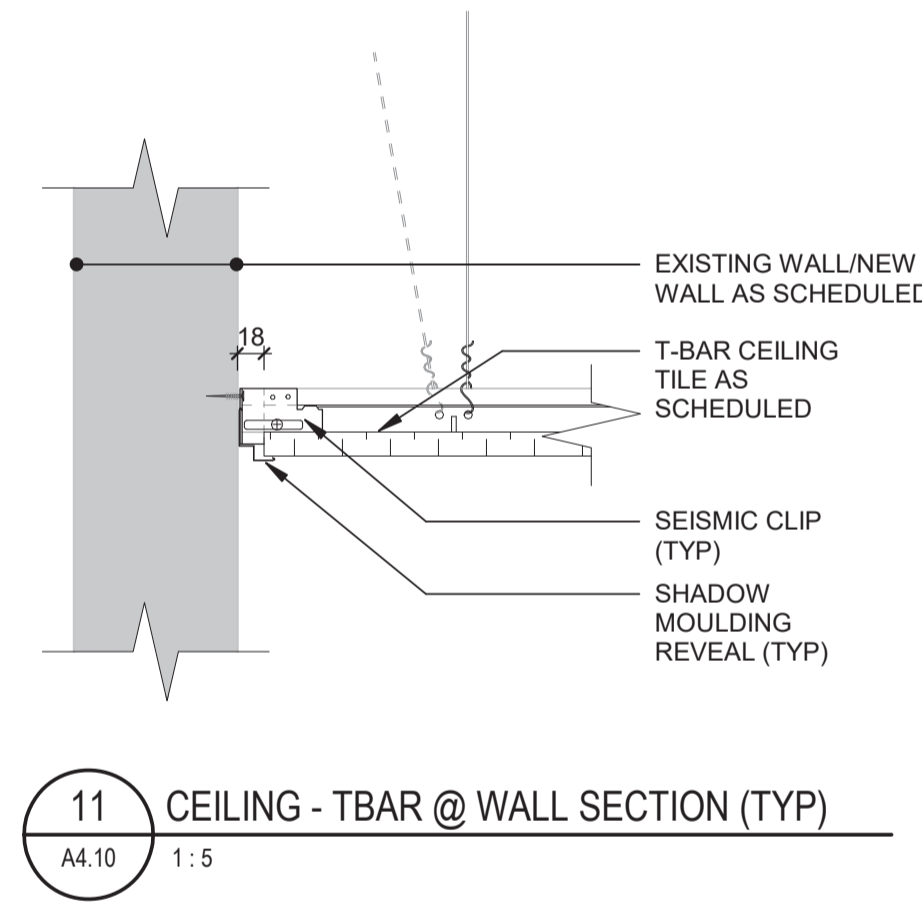
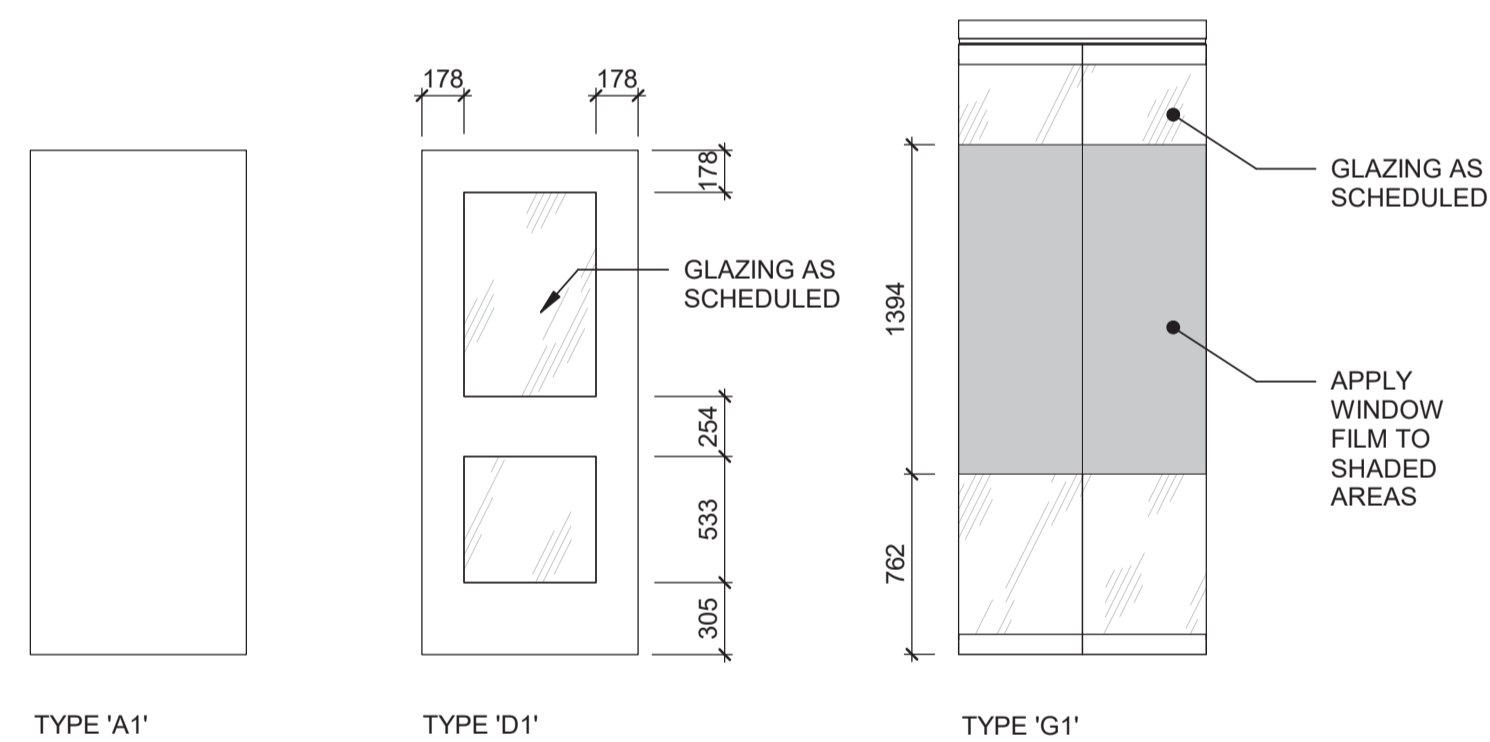
NO.	LEAF QUANTITY	ROOM		DOOR SIZE			DOOR					FIRE RATING	HDW SET NO.	FRAME		FRAME			JAMB/HEAD DETAIL	REMARKS
		FROM	TO	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	GLAZING	HAND			WIDTH	DEPTH	TYPE	MATERIAL	FINISH		
100	PAIR	C-1	100	914	2134	44	D1	HM	PNTD	TYPE '1'	RHRA			51	121	FR-HM-1	HM	PNTD	1/2	PROVIDE ACCESSIBLE BUTTON & FOB ACCESS
101a	SINGLE	101	100	864	2134	44	D1	HM	PNTD	TYPE '1'	RH			51	121	FR-HM-4	HM	PNTD	1	
101b	SINGLE	104	101	864	2134	44	D1	HM	PNTD	TYPE '1'	RHR			51	121	FR-HM-2	HM	PNTD	1	
102	SINGLE	102	ST-1	914	2134	44	D1	ALUM	ANOD		LHR			44	102	FR-ALSF-1	ALUM	ANOD	3	
103	SINGLE	101	103	864	2134	44	D1	HM	PNTD	TYPE '1'	LH			51	121	FR-HM-1	HM	PNTD	1	
104	SINGLE	104	103	5635	2668		G1			TYPE '1'									5	
106a	SINGLE	106	813	1950	13	A1	ALUM			TYPE '2'						FR-FL				SHOWER DOOR
106b	SINGLE	106	813	1950	13	A1	ALUM			TYPE '2'						FR-FL				SHOWER DOOR
108a	SINGLE	107	108	914	2134	44	A1	HM	PNTD		LH			51	121	FR-HM-1	HM	PNTD		CHANGE SWING OF EXISTING DOOR IN EXISTING FRAME
108b	SINGLE	108	109	914	2134	44	A1	HM	PNTD		RH			51	121	FR-HM-1	HM	PNTD		CHANGE SWING OF EXISTING DOOR IN EXISTING FRAME
108c	SINGLE	108	EXT	914	2134	44	A1	HM	PNTD		LH			51	121	FR-HM-1	HM	PNTD		
110a	SINGLE	110	813	1950	13	A1	ALUM			TYPE '2'						FR-FL				SHOWER DOOR
110b	SINGLE	110	813	1950	13	A1	ALUM			TYPE '2'						FR-FL				SHOWER DOOR

ABBREVIATIONS

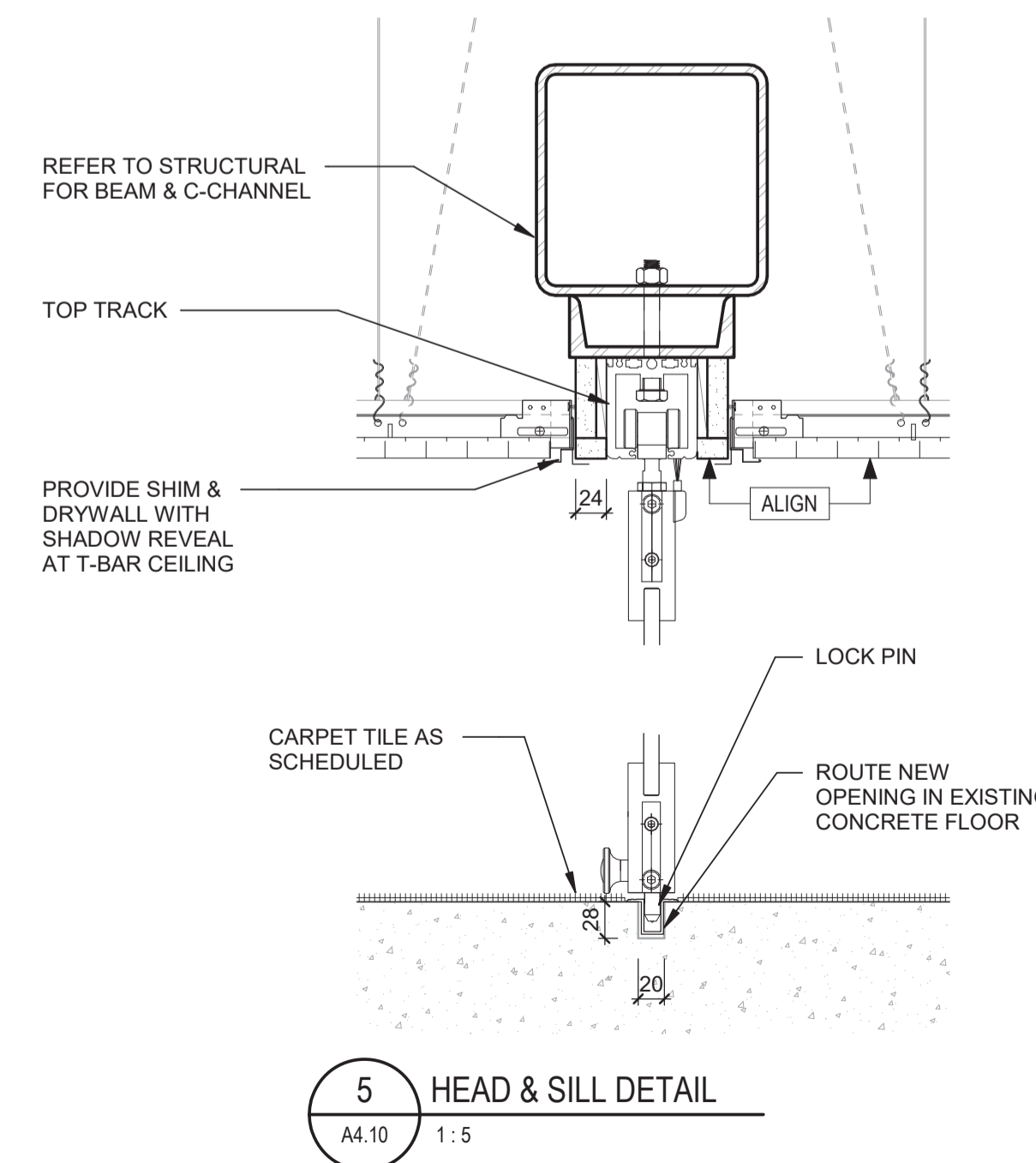
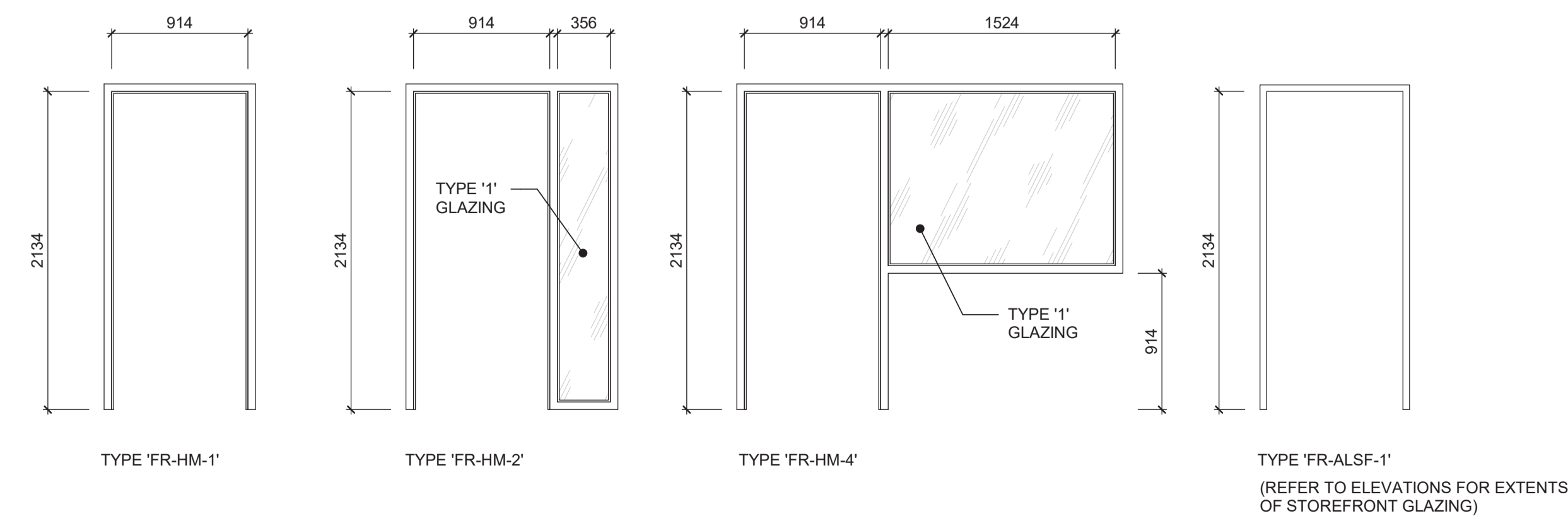
ALUM	ALUMINUM
ANOD	CLEAR ANODIZED ALUMINUM
EXIST	EXISTING
F/P	FACTORY APPLIED PAINT
GL	GLASS
HM	HOLLOW METAL
IHM	INSULATED HOLLOW METAL
LH	LEFT HAND
LHR	LEFT HAND REVERSE
LHRA	LEFT HAND REVERSE ACTIVE
MIN	MINUTES
OT	PAINT
RH	RIGHT HAND
RHR	RIGHT HAND REVERSE
RHRA	RIGHT HAND REVERSE ACTIVE
SCW	SOLID CORE WOOD
TRANSP	TRANSPARENT FINISH
WD	WOOD



DOOR TYPES



FRAME TYPES



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Seal

1	ISSUED FOR TENDER	2018.05.09
Revision/	Description/Description	Date/Date
Revision		

Client/client

**FISHERIES & OCEANS CANADA**

200-401 BARRARD STREET  
VANCOUVER, BC V6C 3R2

Project title/Titre du projet

**4160 MARINE DRIVE  
WEST VANCOUVER, BC V7V 1H2**

**PSEC - CLASSROOM  
ADDITION & RENOVATION**

Consultant Signature Box Only

Designed by/Concept par  
**MIKE MAMMONE**

Drawn by/Dessine par  
**DEACON GREEN**

PWGSC Project Manager/Administrateur de Projets TPSCG

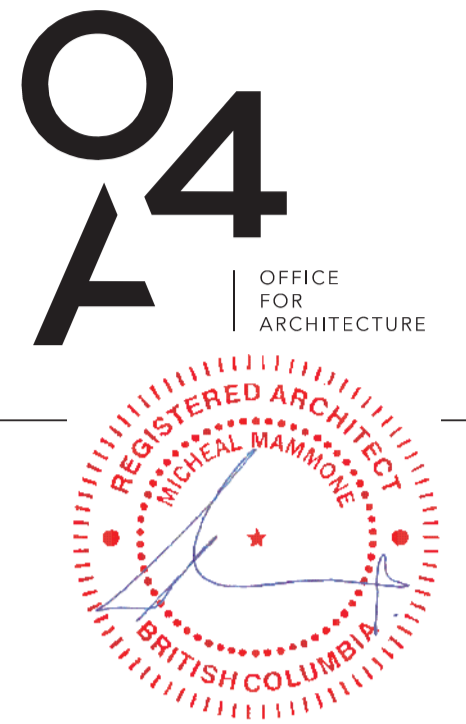
PWGSC, Regional Manager, Architectural and Engineering Services/  
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**DOOR & FRAME SCHEDULE**

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
<b>Client Number</b> O4A: 1712-009	<b>A7.00</b> OF 10	<b>1</b>

Consultant



Seal

ROOM FINISH SCHEDULE

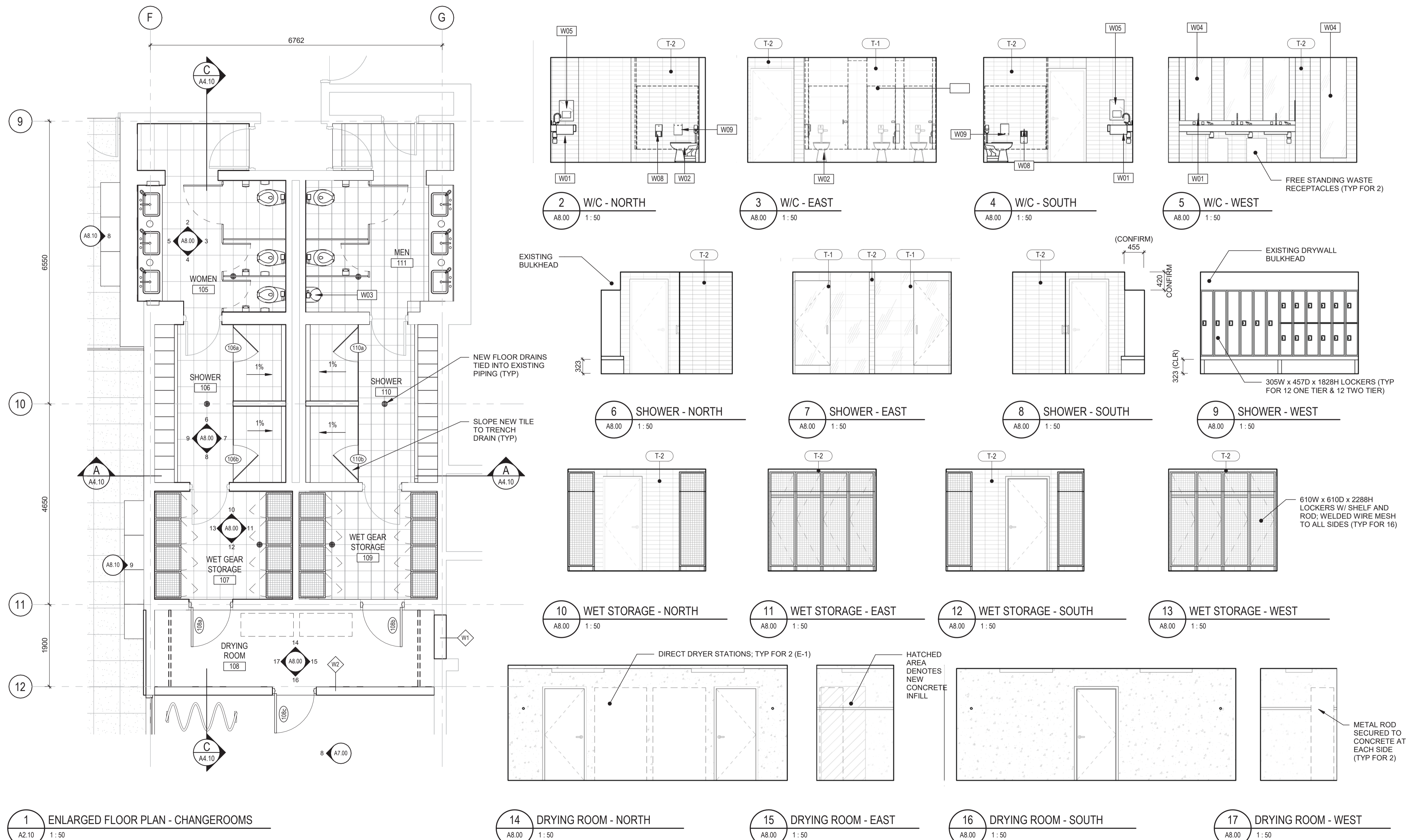
NO.	ROOM NAME	FLOOR	BASE	WALL		CEILING		REMARKS
				MATERIAL	FINISH	MATERIAL	FINISH	
100	RECEPTION							EXISTING FINISHES TO REMAIN
101	COFFEE	RF-1	RB-1	GWB	PT-1	ACT-1	FACT	
102	CORRIDOR	RF-1	RB-1	GWB	PT-1	ACT-1	FACT	
103	MEETING ROOM/ CLASSROOM	CPT-1	RB-1	GWB	PT-1	ACT-1	FACT	
104	MEETING ROOM/ LOUNGE	CPT-1	RB-1	GWB	PT-1	ACT-1	FACT	
105	WOMEN	T-1	T-2	CONC/GWB	T-2/T-1	GWB	PT-2	ALL EXISTING DOORS & FRAMES TO BE PAINTED "PT-2"
106	SHOWER	T-1	T-2	CONC/GWB	T-2/T-1	GWB	PT-2	ALL EXISTING DOORS & FRAMES TO BE PAINTED "PT-2"
107	WET GEAR STORAGE	T-1	T-2	CONC	T-2	GWB	PT-2	ALL EXISTING DOORS & FRAMES TO BE PAINTED "PT-2"
108	DRYING ROOM	CONC	NONE	CONC	PT-1	GWB	PT-2	ALL EXISTING DOORS & FRAMES TO BE PAINTED "PT-2"
109	WET GEAR STORAGE	T-1	T-2	CONC	T-2	CONC	PT-2	ALL EXISTING DOORS & FRAMES TO BE PAINTED "PT-2"
110	SHOWER	T-1	T-2	CONC/GWB	T-2/T-1	GWB	PT-2	ALL EXISTING DOORS & FRAMES TO BE PAINTED "PT-2"
111	MEN	T-1	T-2	CONC/GWB	T-2/T-1	GWB	PT-2	ALL EXISTING DOORS & FRAMES TO BE PAINTED "PT-2"
112	JANITOR							EXISTING FINISHES TO REMAIN
113	TELEPHONE							EXISTING FINISHES TO REMAIN
114	C SECTION OFFICE							EXISTING FINISHES TO REMAIN
115	PRIVATE MEETING ROOM							EXISTING FINISHES TO REMAIN
C-1	CORRIDOR							EXISTING FINISHES TO REMAIN
ST-1	STAIR NO 1							EXISTING FINISHES TO REMAIN

FINISH ABBREVIATIONS

ACT	ACOUSTIC CEILING TILE
CMP	COMPOSITE PANEL
CONC	CONCRETE
CPT	CARPET TILE
DW	DRYWALL
EPC	EPOXY COATED CONCRETE
FCB	FIBER CEMENT BOARD
M	FLOOR GRILLE/ ENTRY MAT
PT	PAINT
PTC	PEDESTRIAN TRAFFIC COATING
RB	RUBBER BASE
RBF	ANTI-FATIGUE FLOORING
RF	RESILIENT FLOORING
SPC	SPECIAL FINISH
VCT	STATIC DISSIPATIVE LINO

WASHROOM KEYNOTES

W01	FAUCET & LAVATORY; REFER TO MECHANICAL DRAWINGS
W02	TOILET; REFER TO MECHANICAL DRAWINGS
W03	URINAL; REFER TO MECHANICAL DRAWINGS
W04	MIRROR
W05	RECESSED PAPER TOWEL DISPENSER
W08	SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER
W09	SANITARY NAPKIN DISPOSAL (WOMEN'S WASHROOM ONLY)



1	ISSUED FOR TENDER	2018.05.09
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**FISHERIES & OCEANS CANADA**  
 200-401 BARRARD STREET  
 VANCOUVER, BC V6C 3R2

4160 MARINE DRIVE  
 WEST VANCOUVER, BC V7V 1H2

**PSEC - CLASSROOM ADDITION & RENOVATION**

Client/client

Consultant Signature Box Only

Designed by/Concept par  
**MIKE MAMMONE**

Drawn by/Dessiné par  
**DEACON GREEN**

PWGSC Project Manager/Administrateur de Projets TPSSC

PWGSC, Regional Manager, Architectural and Engineering Services/  
 Gestionnaire régional, services d'architecture et de génie, TPSSC

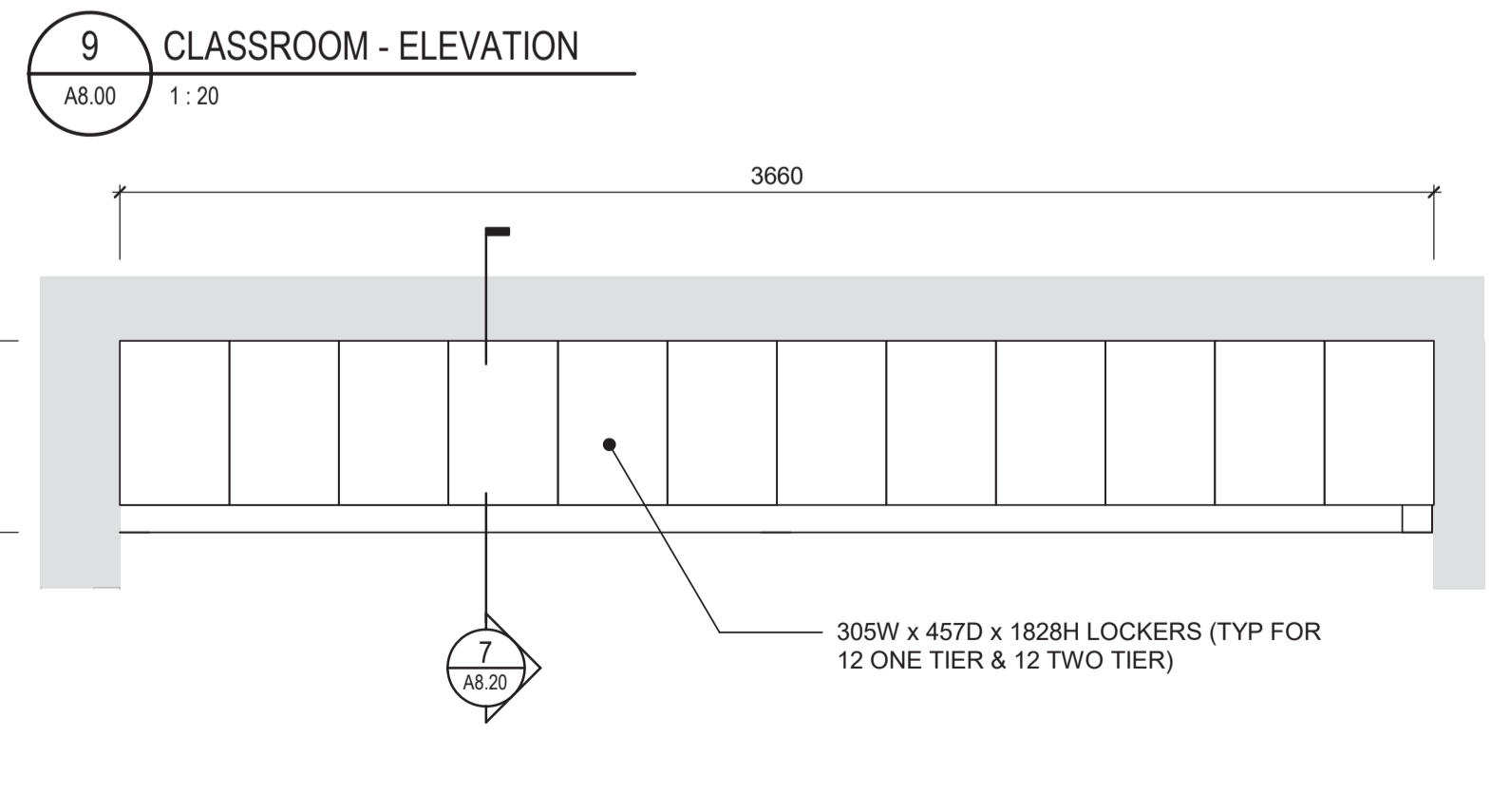
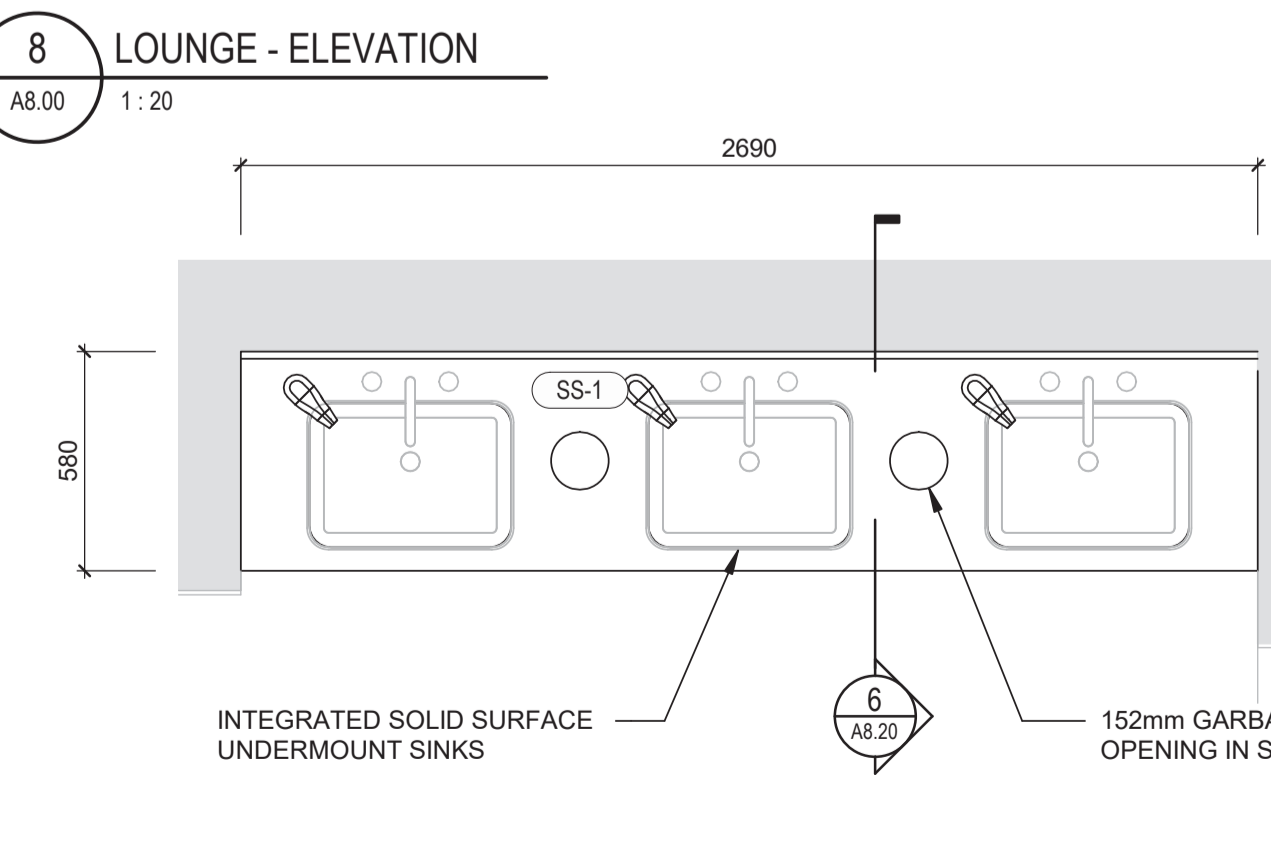
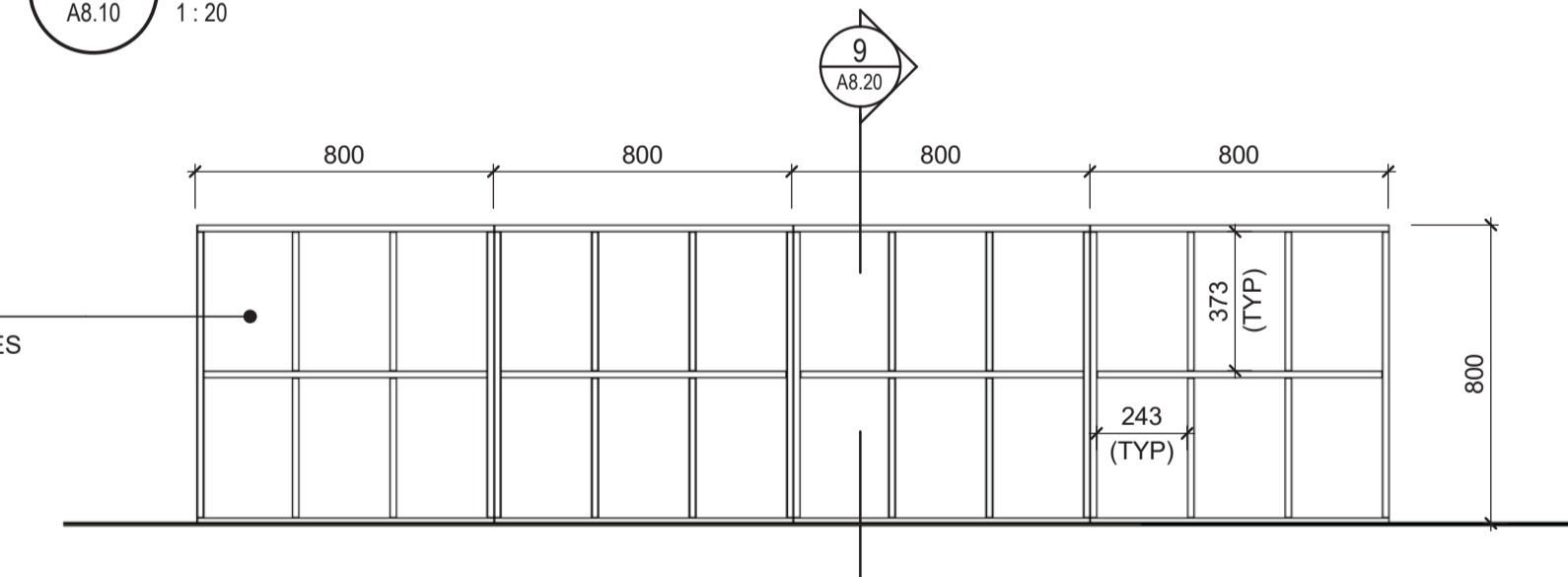
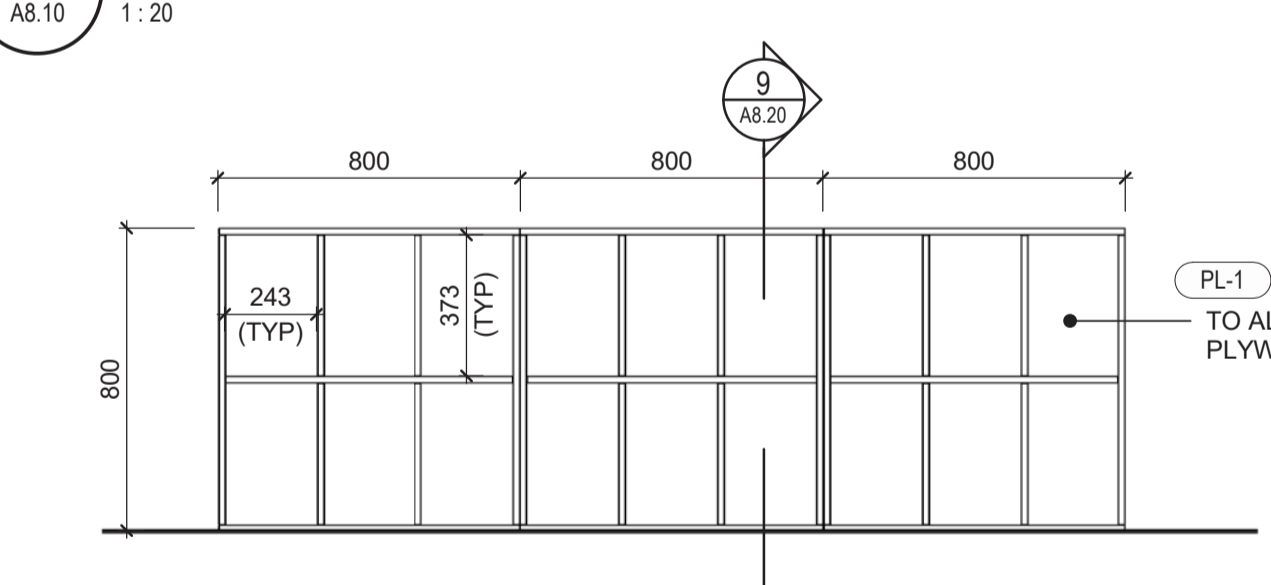
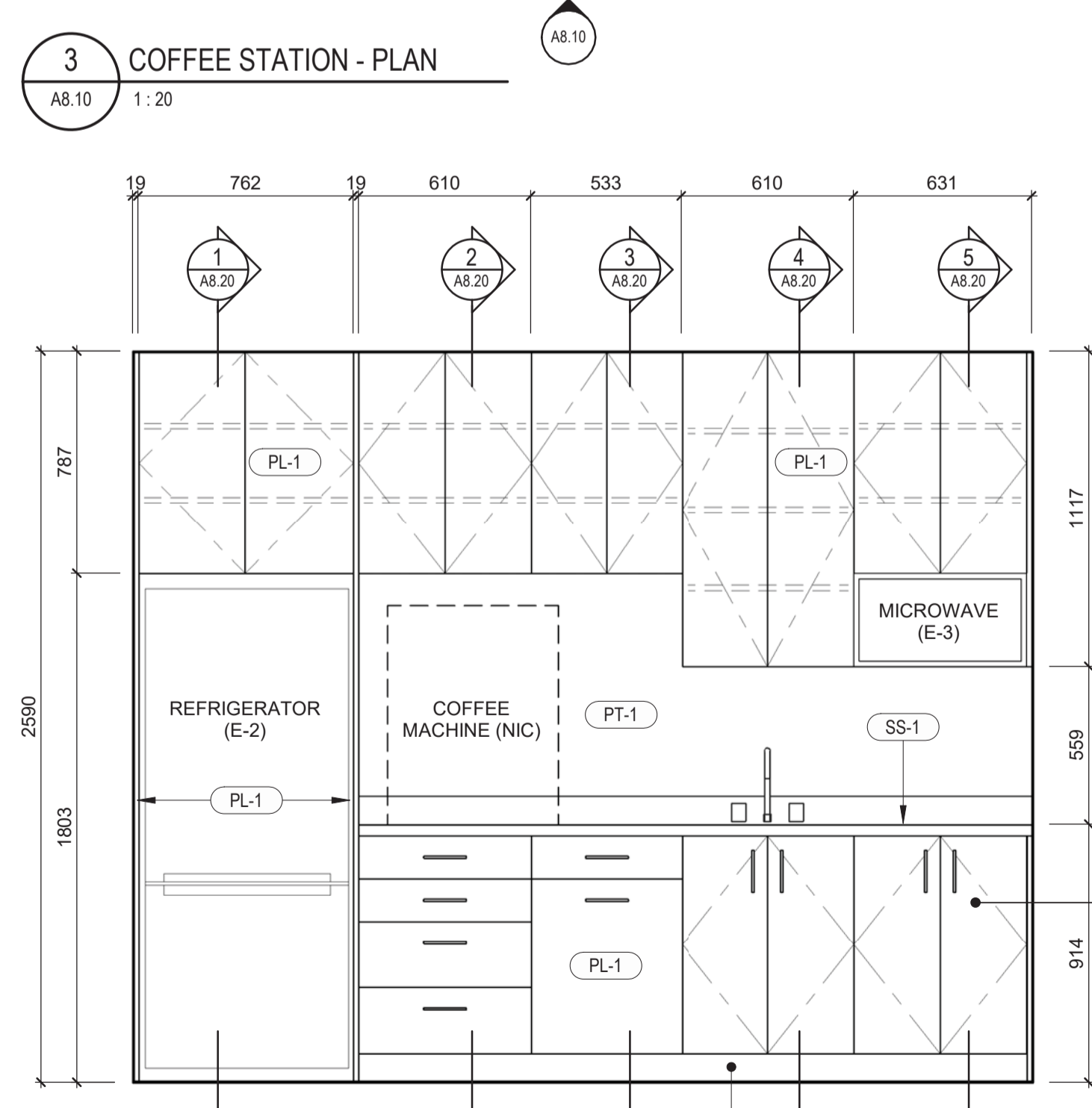
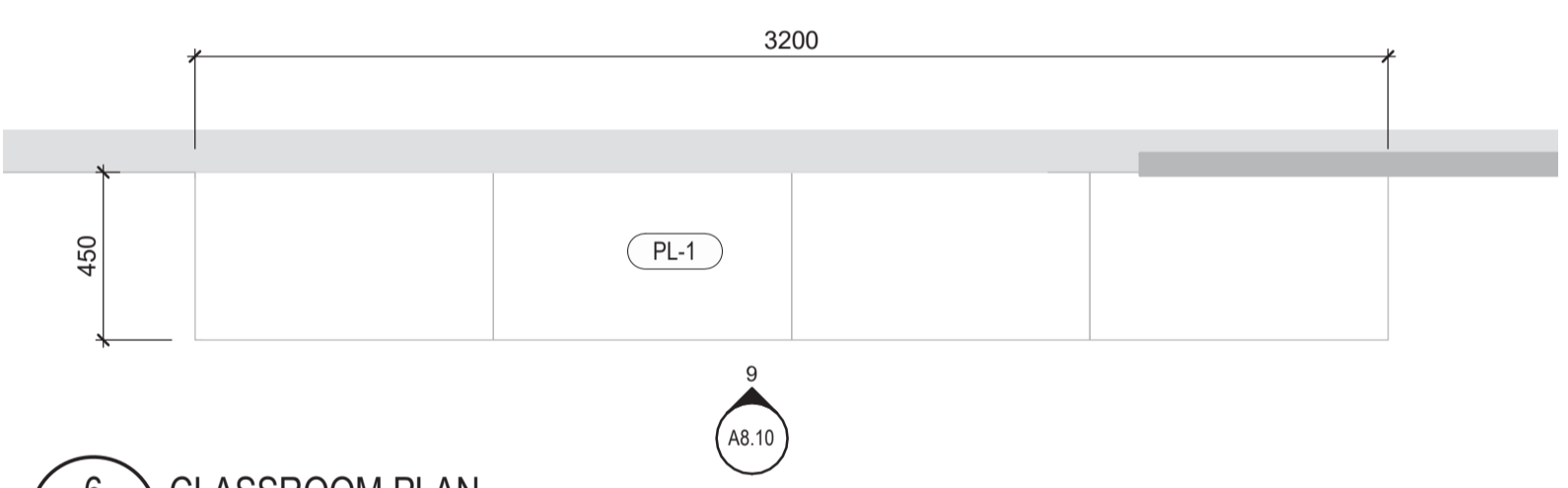
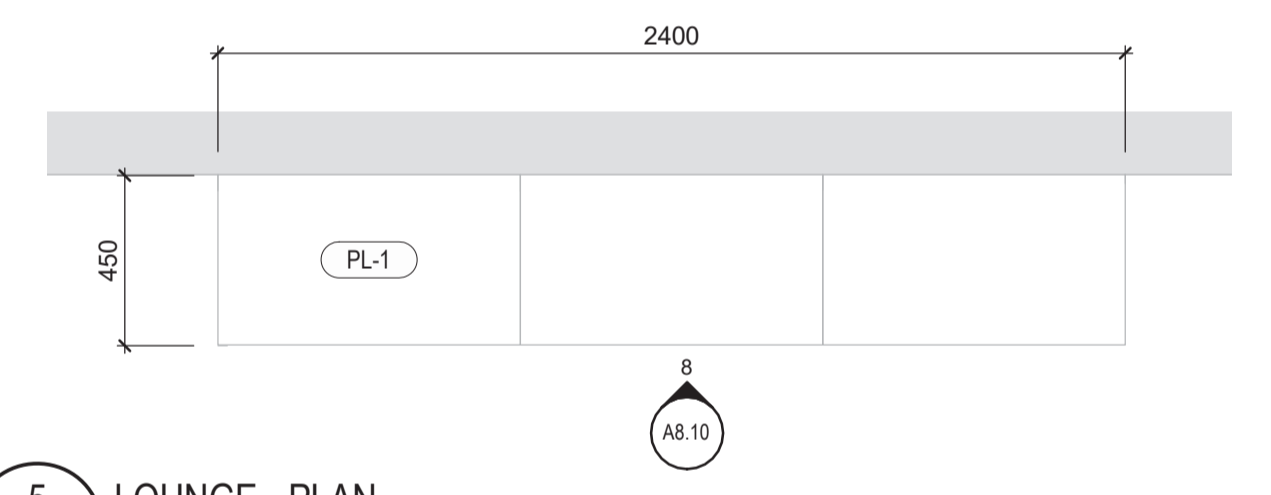
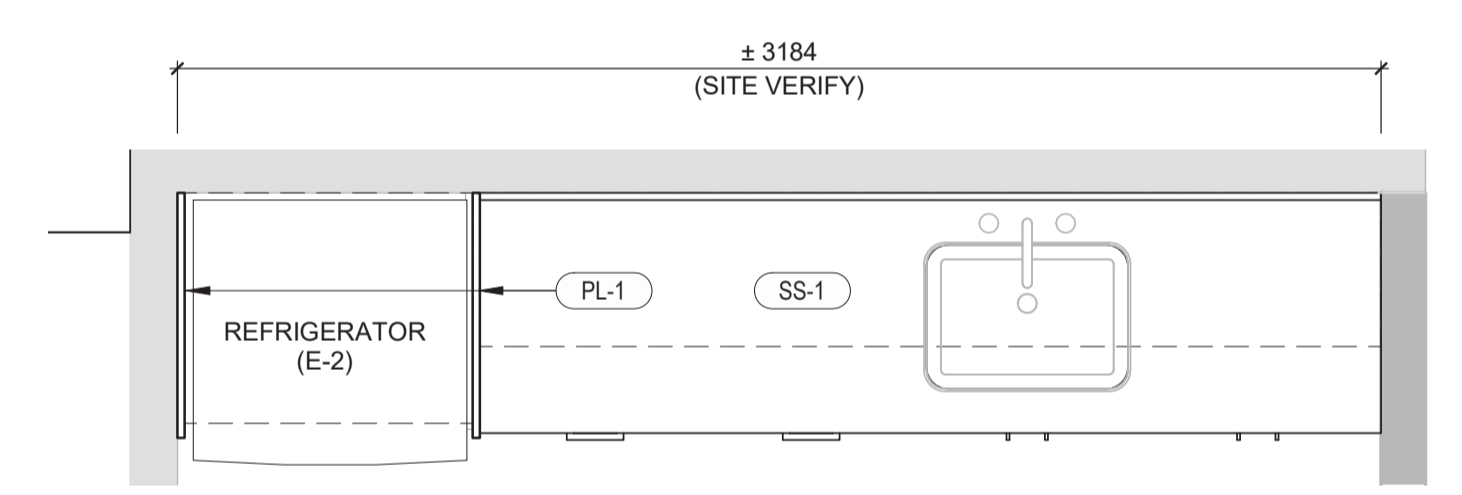
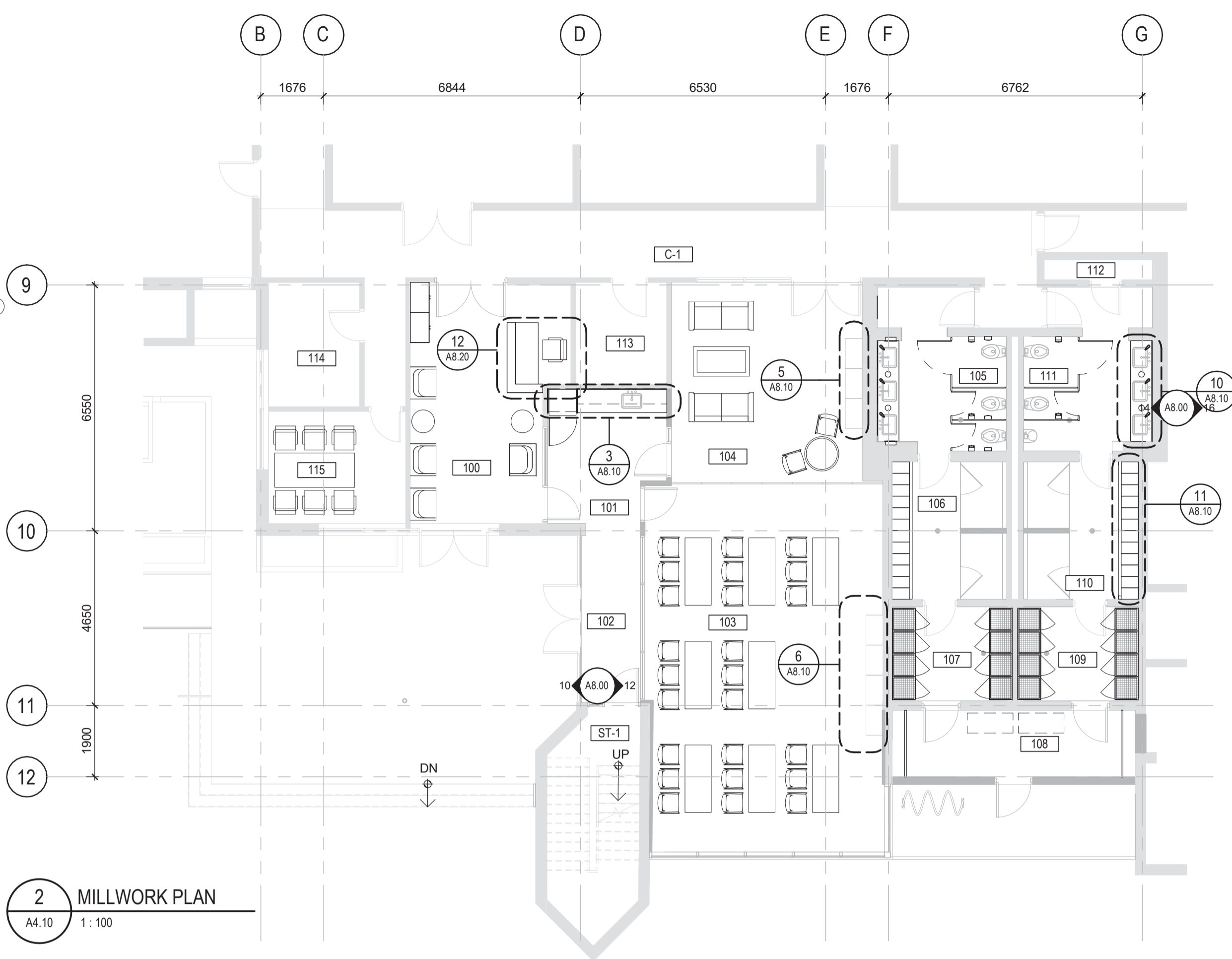
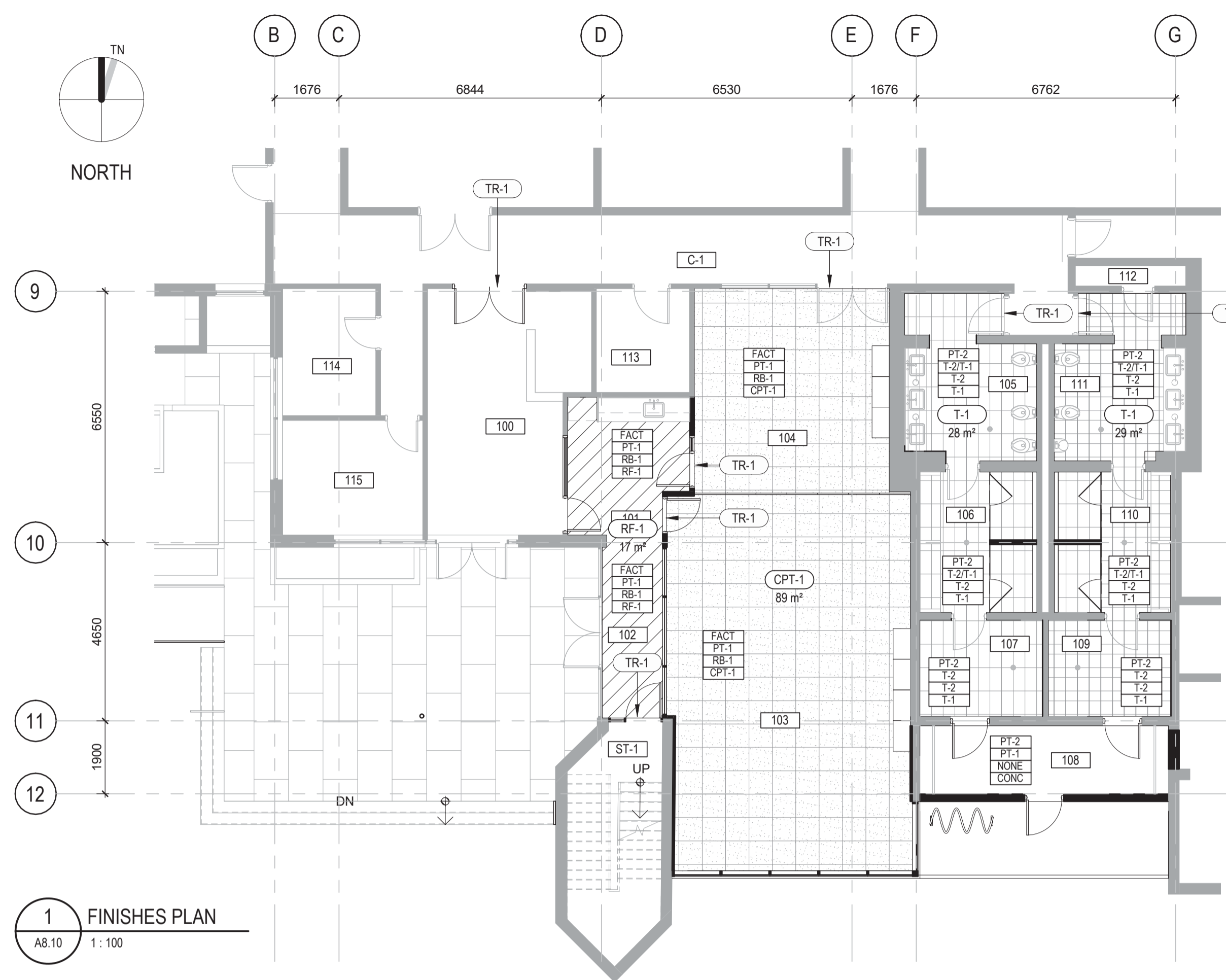
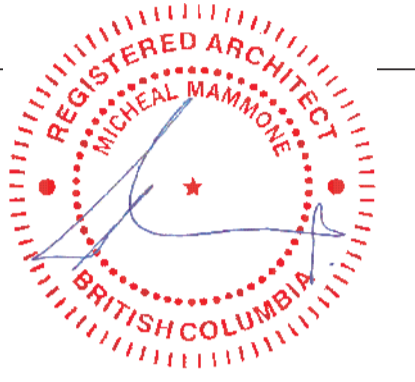
**ROOM FINISH SCHEDULE, ENLARGED PLAN & INTERIOR ELEVATIONS**

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
<b>Client Number</b> O4: 1712-009	<b>A8.00</b> OF 10	<b>1</b>

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Revision/	Description/Description	Date/Date
1	ISSUED FOR TENDER	2018.05.09

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**FISHERIES & OCEANS CANADA**  
200-401 BURRARD STREET  
VANCOUVER, BC V6C 3R2

Project title/Titre du projet

**4160 MARINE DRIVE  
WEST VANCOUVER, BC V7V 1H2**

**PSEC - CLASSROOM  
ADDITION & RENOVATION**

Consultant Signature Box Only

Designed by/Concept par  
**MIKE MAMMONE**

Drawn by/Dessiné par  
**DEACON GREEN**

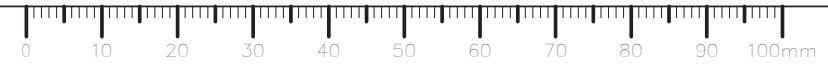
PWGSC Project Manager/Administrateur de Projets TPSCG

PWGSC, Regional Manager, Architectural and Engineering Services/  
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Drawing title/Titre du dessin

**FINISHES PLANS & MILLWORK  
PLANS & ELEVATIONS**

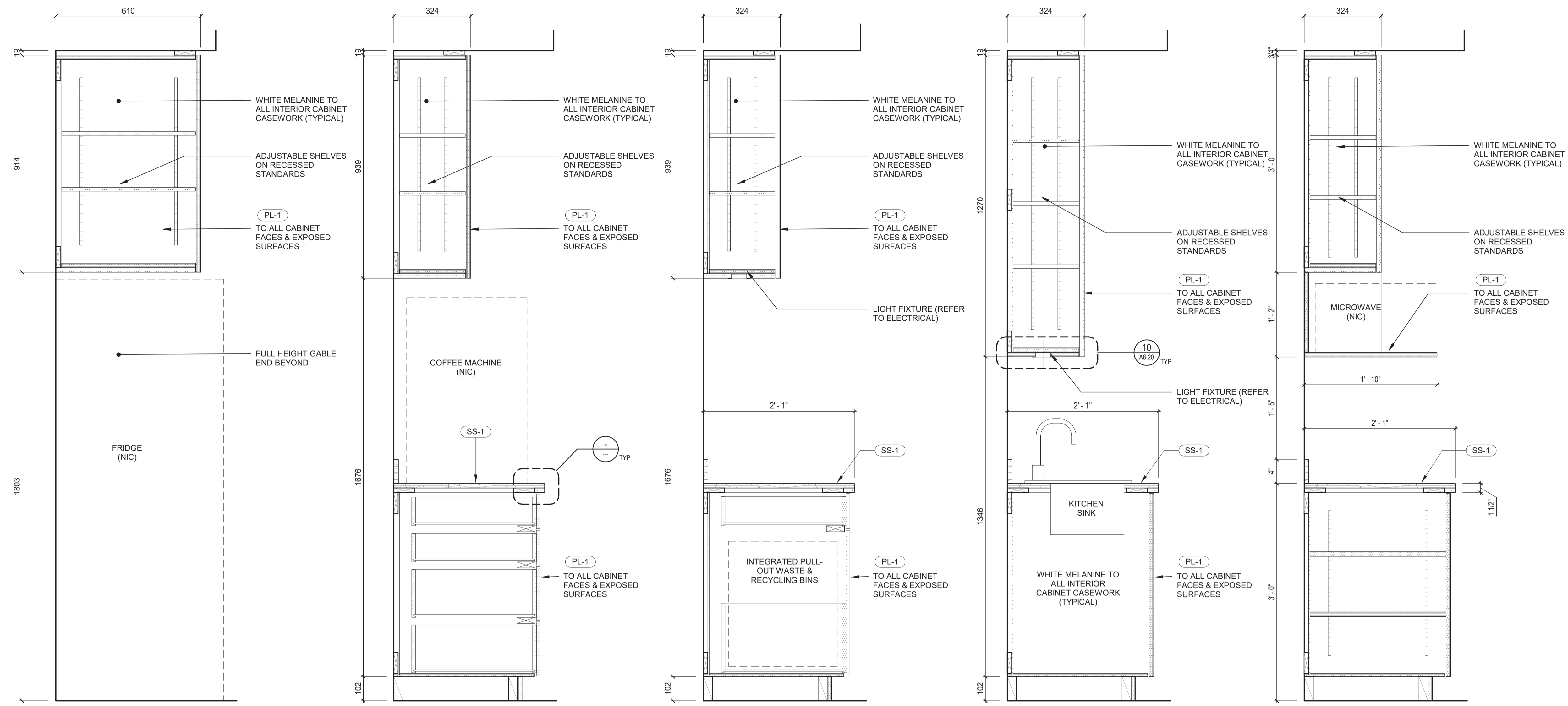
Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
<b>Client Number</b> O4A: 1712-009	<b>A8.10</b> OF 10	<b>1</b>



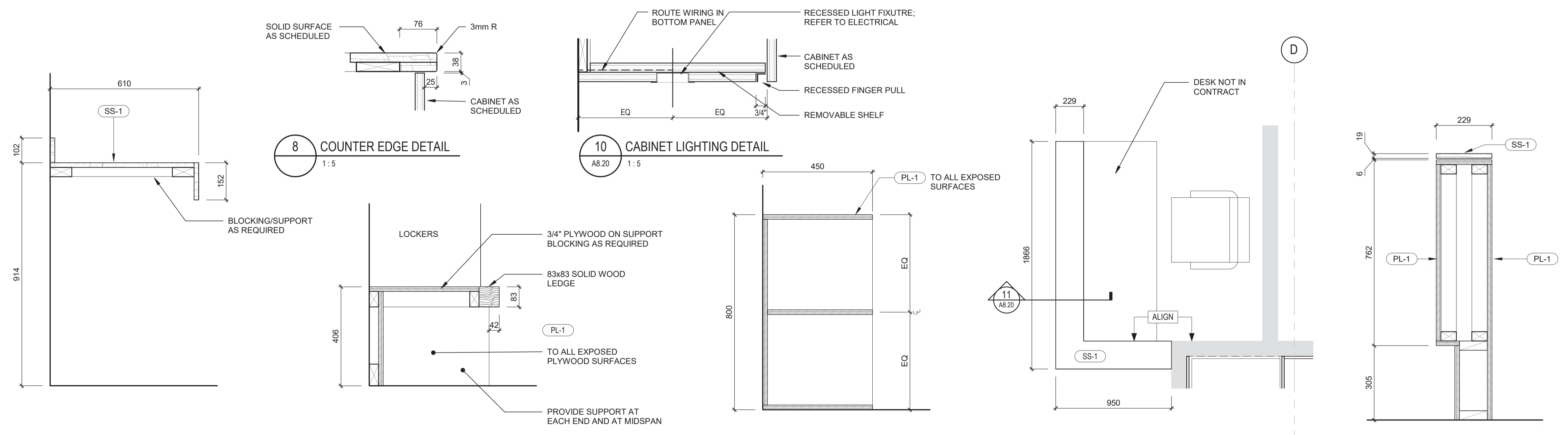
Consultant

OFFICE FOR ARCHITECTURE

Seal



1 MILLWORK - SECTION A8.10 1:10  
 2 MILLWORK - SECTION A8.10 1:10  
 3 MILLWORK - SECTION A8.10 1:10  
 4 MILLWORK - SECTION A8.10 1:10  
 5 MILLWORK - SECTION A8.10 1:10



6 MILLWORK - SECTION A8.10 1:10  
 7 MILLWORK - SECTION A8.10 1:10  
 8 COUNTER EDGE DETAIL 1:5  
 9 MILLWORK - SECTION A8.10 1:10  
 10 CABINET LIGHTING DETAIL A8.20 1:5  
 11 MILLWORK - SECTION A8.20 1:10  
 12 SECURITY DESK - PLAN A8.10 1:20

Revision/	Description/Description	Date/Date
1	ISSUED FOR TENDER	2018.05.09

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Drawing title/Titre du dessin

**MILLWORK SECTIONS &  
DETAILS**

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
<b>Client Number</b> O4A: 1712-009	<b>A8.20</b> OF 10	<b>1</b>