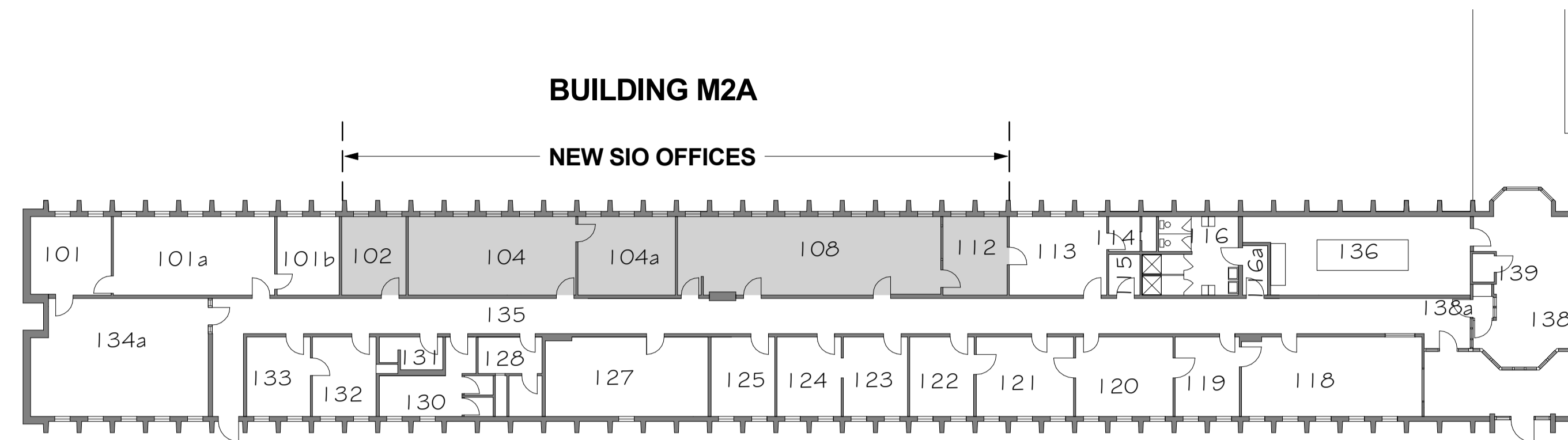
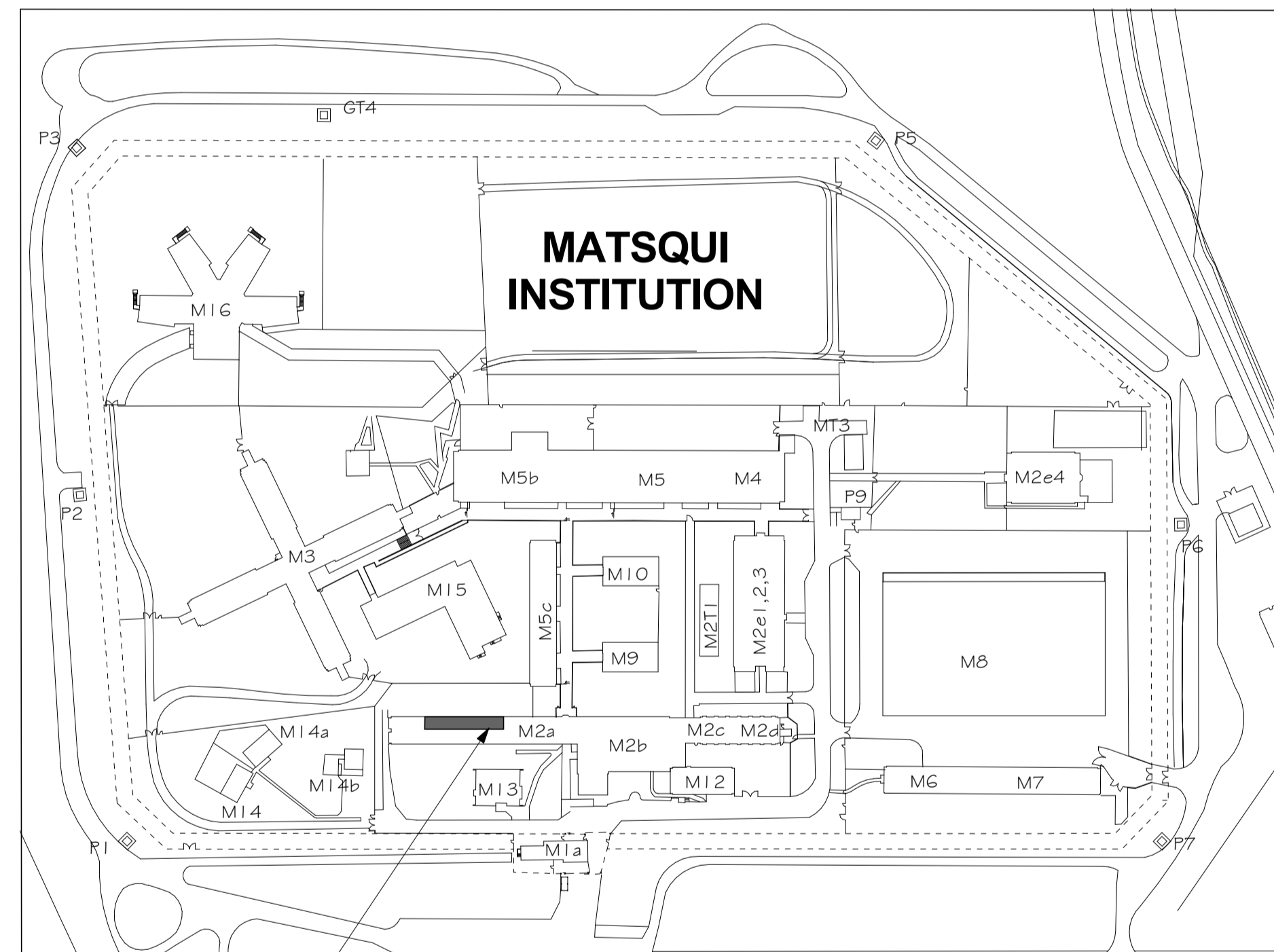


# MATSQUI INSTITUTION BUILDING M2A (ADMIN) SIO OFFICE RELOCATION



NOTE: TRAVEL DISTANCE FROM ROOM 112 TO EXIT DOES NOT EXCEEDING 45 METERS

2 LOCATION PLAN - MAIN FLOOR PLAN BLDG M2A  
A000 1 : 200



BUILDING M2A

1 MATSQUI INSTITUTION OVERALL SITE PLAN  
A000 1 : 2000

## DRAWING LIST

### ARCHITECTURAL

	Issued Date
A000 TITLE PAGE, SITE & LOCATION PLAN	12/21/2016
A101 EXISTING PHOTOS	12/21/2016
A102 EXISTING PHOTOS	12/21/2016
A201 FLOOR PLANS - DEMOLITION & NEW	12/21/2016
A301 REFLECTED CEILING PLANS - DEMOLITION & NEW	12/21/2016
A401 ELEVATIONS & SECTIONS	12/21/2016
A902 DETAILS & SCHEDULES	12/21/2016

### MECHANICAL

Sheet No. & Name	Issued Date
M-1 PARTIAL MAIN FLOOR PLAN RENOVATION	12/21/2016

### ELECTRICAL

Sheet No. & Name	Issued Date
E-1 ELECTRICAL PANEL SCHEDULES MECHANICAL EQUIPMENT SCHEDULE SINGLE LINE DIAGRAM SYMBOL LEGEND	12/21/2016
E-2 PARTIAL FLOOR PLAN - POWER AND COMMUNICATIONS LAYOUT	12/21/2016
E-3 PARTIAL FLOOR PLAN - POWER AND COMMUNICATIONS LAYOUT	12/21/2016
E-4 PARTIAL FLOOR PLAN - LIGHTING LAYOUT	12/21/2016
E-5 PARTIAL FLOOR PLAN - FIBRE OPTIC CABLING	12/21/2016
E-6 PARTIAL FLOOR PLAN - SECURITY WIRING DIAGRAMS	12/21/2016
E-7 PARTIAL FLOOR PLAN - SECURITY CONTROL CONSOLES AND CCTV MONITORS (FOR REFERENCE ONLY)	12/21/2016

Revision/Revision	Description/Description	Date/Date
2	ISSUE FOR TENDER	2016/12/21
1	ISSUE FOR 50% SUBMISSION	2016/10/21

**CORRECTIONAL SERVICE CANADA**

Project title/Titre du projet  
33344 KING ROAD, ABBOTSFORD, BC  
**MATSQUI INSTITUTION BLDG M2A (ADMIN) SIO OFFICE RELOCATION**

Consultant Approval Box Only  
Designed by/Concept par DD  
Drawn by/Dessiné par DD  
PWGSC Project Manager/Administrateur de Projets TPSSC TONY TANG  
PWGSC, Regional Manager, Architectural and Engineering Services/Gestionnaire régional, Services d'architecture et de génie, TPSSC PREETIPAL PAUL

Drawing title/Titre du dessin  
**TITLE PAGE, SITE & LOCATION PLAN**

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Revision no.
R.084072.001	A000	



EXISTING FLOOR SUPPLY REGISTER(TYP)

PHOTO 108 E ROOM 108



PHOTO 108 D ROOM 108



PHOTO 108 C ROOM 108



PHOTO 108 B ROOM 108



PHOTO 108 A ROOM 108 & ROOM 135



PHOTO 112 G ROOM 112 & ROOM 108



PHOTO 112 F ROOM 108 & ROOM 112

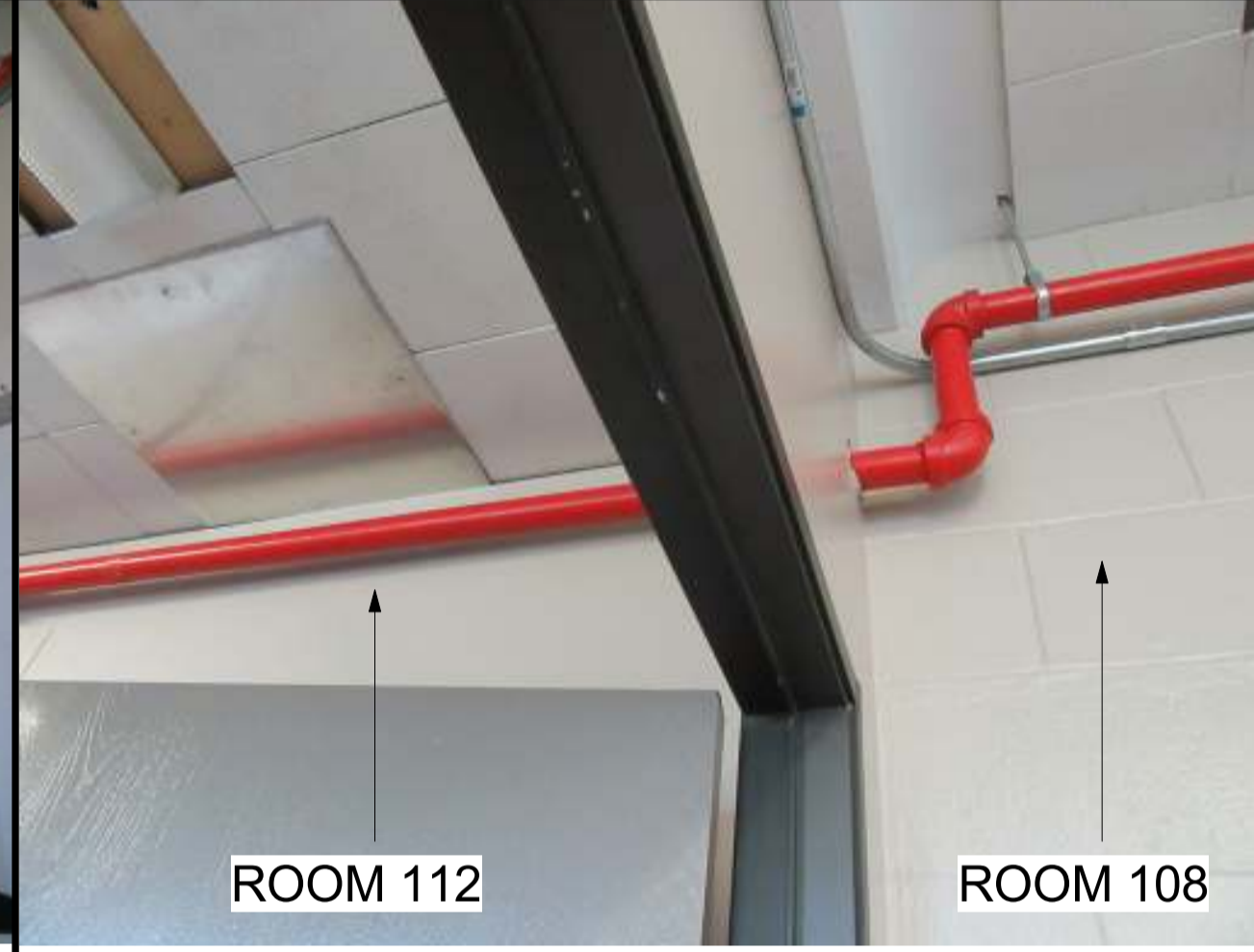


PHOTO 112 E ROOM 112 & ROOM 108



PHOTO 112 D ROOM 112



PHOTO 112 C ROOM 112

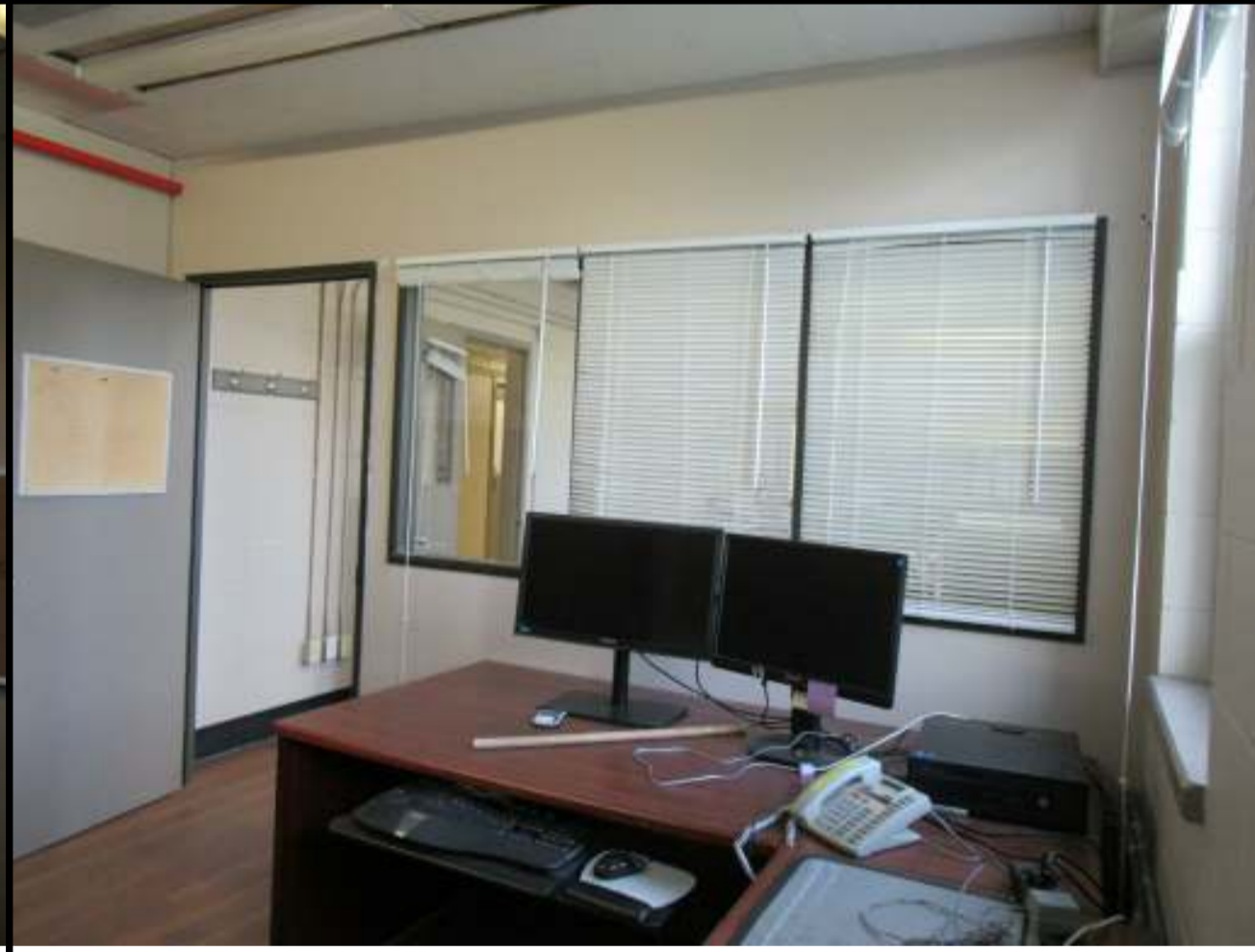


PHOTO 112 B ROOM 112



PHOTO 112 A ROOM 112



EXISTING CEILING TILES (TYP)

PHOTO 113 C ROOM 113



PHOTO 113 B ROOM 113



PHOTO 113 A ROOM 113



PHOTO 1B PHOTO 1A TYPICAL EXTERIOR WINDOW SECURITY SCREEN

Revision/Revision	Description/Description	Date/Date
2	ISSUE FOR TENDER	2016/12/21
1	ISSUE FOR 50% SUBMISSION	2016/10/21

**CORRECTIONAL SERVICE CANADA**

Project title/Titre du projet

33344 KING ROAD, ABBOTSFORD, BC  
**MATSQUI INSTITUTION BLDG M2A (ADMIN) SIO OFFICE RELOCATION**

Consultant Approval Box Only

Designed by/Concept par DD

Drawn by/Dessine par DD

PWGSC Project Manager/Administrateur de Projets TPSSC  
**TONY TANG**

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

Drawing title/Titre du dessin

**EXISTING PHOTOS**

Project No./No. du projet **R.084072.001**

Sheet/ Feuille **A101**

Revision no./La Revision no.



PHOTO 113 D ROOM 104



PHOTO 113 C ROOM 113



PHOTO 104 F ROOM 104



PHOTO 104 E ROOM 104



PHOTO 104 D ROOM 104



PHOTO 104 C ROOM 104



PHOTO 104 B ROOM 104



PHOTO 104 A ROOM 104 & ROOM 135



PHOTO 108 M ROOM 108



PHOTO 108 L ROOM 108



PHOTO 108 K ROOM 108 & ROOM 135



PHOTO 108 J ROOM 108 & ROOM 135

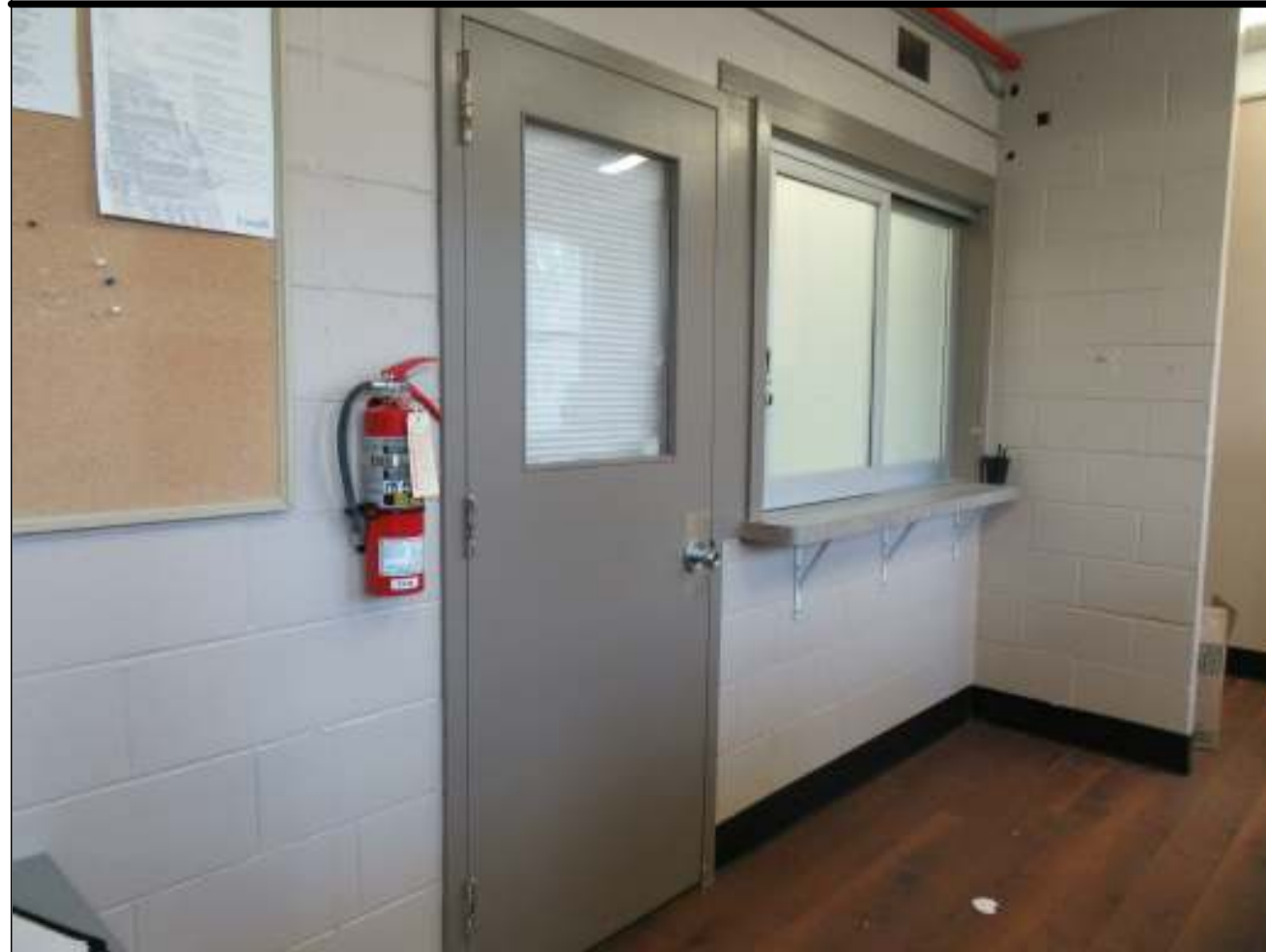


PHOTO 108 I ROOM 108



PHOTO 108 H ROOM 108



PHOTO 108 G ROOM 108



PHOTO 108 F ROOM 108

Revision/Revision	Description/Description	Date/Date
2	ISSUE FOR TENDER	2016/12/21
1	ISSUE FOR 50% SUBMISSION	2016/10/21

**CORRECTIONAL SERVICE CANADA**

Project title/Titre du projet  
 33344 KING ROAD, ABBOTSFORD, BC  
**MATSQUI INSTITUTION BLDG M2A (ADMIN) SIO OFFICE RELOCATION**

Consultant Approval Box Only  
 Designed by/Concept par DD  
 Drawn by/Dessiné par DD  
 PWGSC Project Manager/Administrateur de Projets TPSCG TONY TANG  
 PWGSC, Regional Manager, Architectural and Engineering Services/Gestionnaire régional, Services d'architecture et de génie, TPSCG PREETIPAL PAUL  
 Drawing title/Titre du dessin

**EXISTING PHOTOS**

Project No./No. du projet	Sheet/ Feuille	Revision no./La Révision no.
<b>R.084072.001</b>	<b>A102</b>	

**GENERAL NOTES**

- (A) ALL LABOR, MATERIALS, AND PRODUCTS TO COMPLY WITH THE REQUIREMENTS OF THE NATIONAL BUILDING CODE OF CANADA (LATEST VERSION) AND ALL OTHER APPLICABLE CODES, STANDARDS AND BY-LAWS.
- (B) ACCESSIBILITY REQUIREMENTS - CSA STANDARDS ACCESSIBLE DESIGN FOR THE BUILT ENVIRONMENT B651 - 12
- (C) DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS.

**FLOOR PLAN DEMOLITION NOTE:**

- (1) REMOVE AND DISPOSE EXISTING FLOORING INCLUDING SUBSTRATES IN EXISTING ROOMS, MAKE GOOD CONCRETE FLOOR, SEAL ALL CRACKS AND PREPARE FLOOR FOR INSTALLATION OF NEW FLOORING.
- (2) MAKE GOOD WALLS & EXISTING DOOR FRAMES TO PREPARE FOR NEW PAINT FINISH.
- (3) REMOVE & DISCONNECT ALL EXISTING A/C UNITS
- (4) EXISTING BLINDS TO REMAIN AND REINSTATE TO SAME CONDITION.
- (5) FOR ELECTRICAL & MECHANICAL, SEE ELECTRICAL & MECHANICAL DRAWINGS

**WALL ASSEMBLIES**

INTERIOR WALL TYPES:		ULC / STC	REMARKS
W1		ULC 465 STC 55	HARDEN WALL
W2		ULC 465 STC 46	HARDEN WALL

**GENERAL NOTES:**

- 1) ALL WALLS TO UNDERSIDE OF STRUCTURE
- 2) COORDINATE WITH ELECTRICAL, MECHANICAL, FIRE PROTECTION & STRUCTURAL FOR OPENINGS AT WALLS & CEILINGS.
- 3) APPLY ACOUSTIC SEALANT TO SEAL ALL GAPS (TYPICAL)

**REFERENCE TAGS**

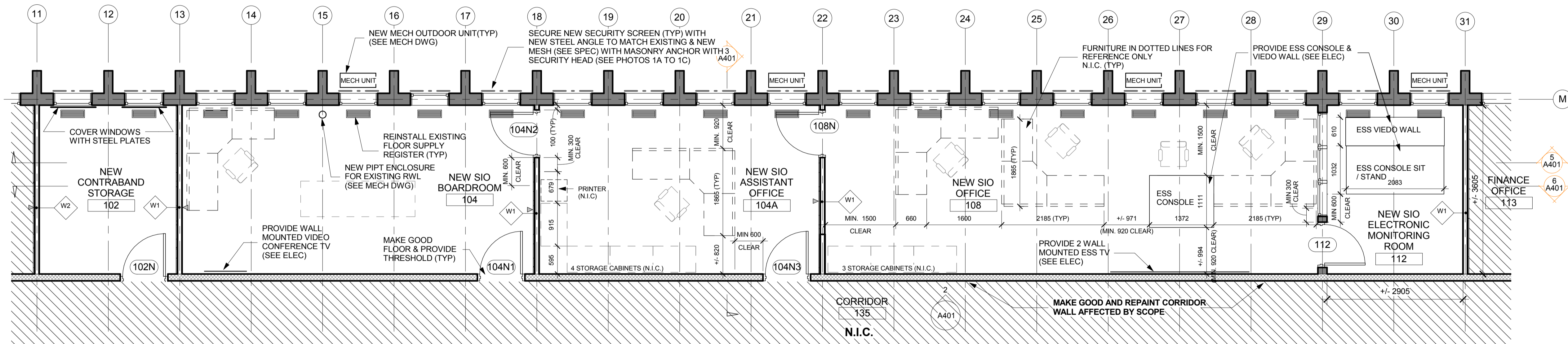
- WALL TAG
- DOOR TAG
- WINDOW TAG
- ROOM TAG
- REVISION SYMBOL
- SPOT ELEVATION



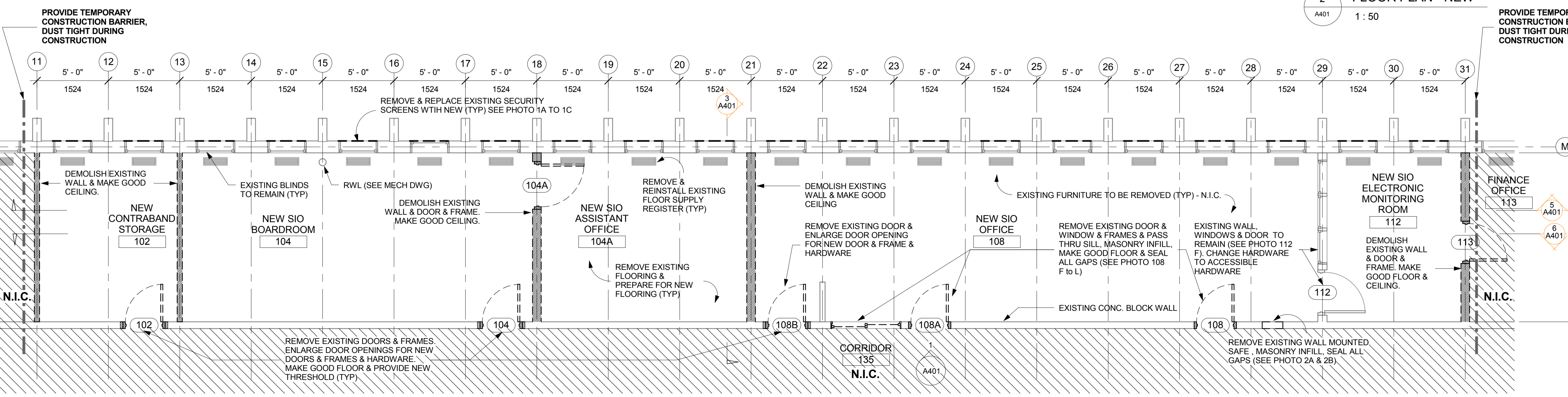
PHOTO 2B



PHOTO 2A



2 FLOOR PLAN - NEW  
A401 1:50



1 FLOOR PLAN - DEMOLITION  
A401 1:50

Revision/Revision	Description/Description	Date/Date
2	ISSUE FOR TENDER	2016/12/21
1	ISSUE FOR 50% SUBMISSION	2016/10/21

**CORRECTIONAL SERVICE CANADA**

Project title/Titre du projet  
33344 KING ROAD, ABBOTSFORD, BC  
**MATSQUI INSTITUTION BLDG M2A (ADMIN) SIO OFFICE RELOCATION**

Consultant Approval Box Only  
Designed by/Concept par DD  
Drawn by/Dessiné par DD  
PWSC Project Manager/Administrateur de Projets TPSCG  
TONY TANG  
PWSC, Regional Manager, Architectural and Engineering Services/  
Gestionnaire régional, Services d'architectural et de génie, TPSCG  
PREETIPAL PAUL  
Drawing title/Titre du dessin

**FLOOR PLANS - DEMOLITION & NEW**

Project No./No. du projet <b>R.084072.001</b>	Sheet/ Feuille <b>A201</b>	Revision no./ La Revision no.
--	-------------------------------	-------------------------------------

**RCP DEMOLITION NOTE:**

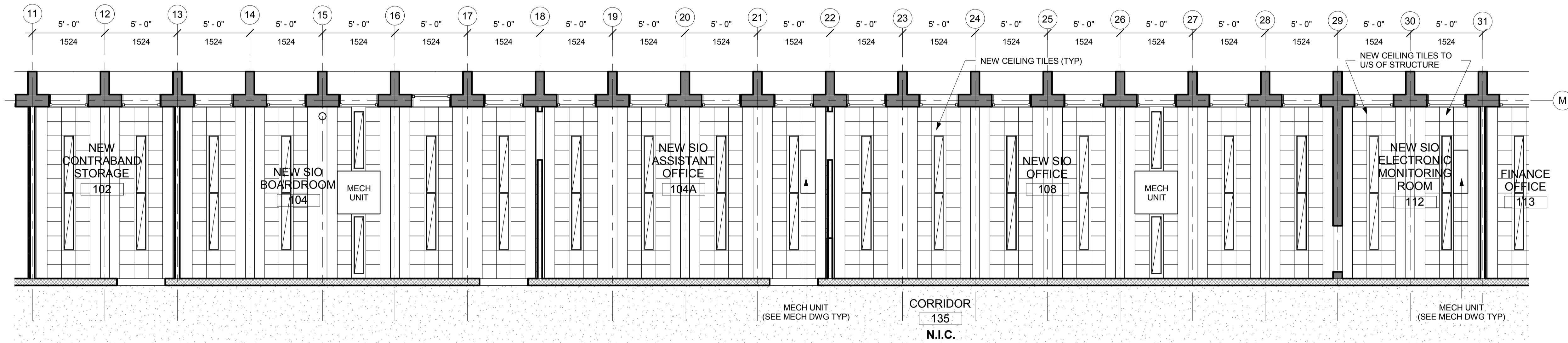
(1) REMOVE AND DISPOSE EXISTING CEILING TILES INCLUDING SUBSTRATES IN EXISTING ROOMS, MAKE GOOD EXISTING CEILINGS / UNDERSIDE OF STRUCTURE AND PREPARE INSTALLATION OF NEW CEILING TILES.

(2) FOR ELECTRICAL & MECHANICAL, SEE ELECTRICAL & MECHANICAL DRAWINGS

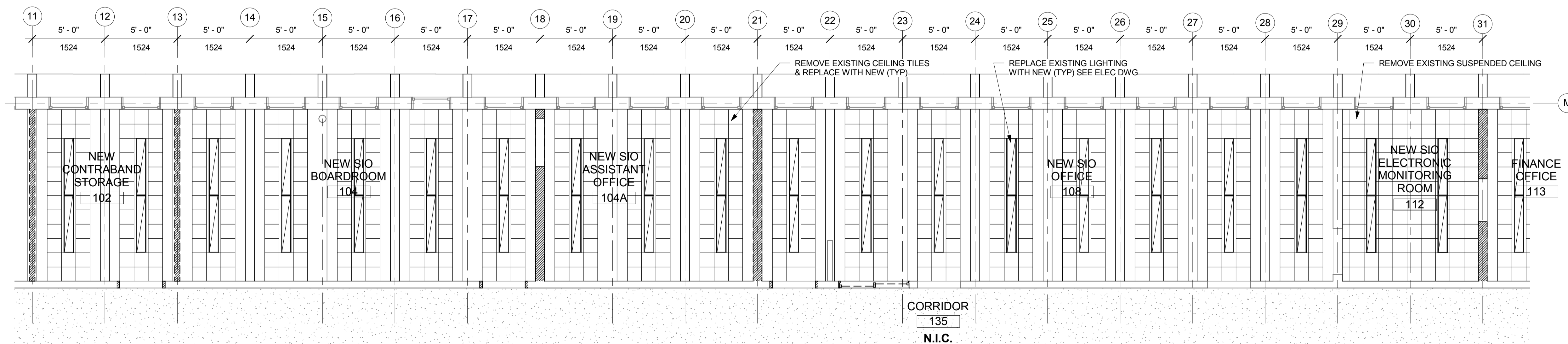
**RCP LEGEND:**

(SEE MECH & ELEC DWGS)

- LUMINAIRE
- ⊗ SPRINKLER HEAD
- ▣ CEILING GRILLE
- ⊠ SUPPLY AIR DIFFUSER
- ◇ SECURITY CAMERA



2 REFLECTED CEILING PLAN - NEW  
A401 1:50



1 REFLECTED CEILING PLAN - DEMO  
A401 1:50

Revision/Revision	Description/Description	Date/Date
2	ISSUE FOR TENDER	2016/12/21
1	ISSUE FOR 50% SUBMISSION	2016/10/21

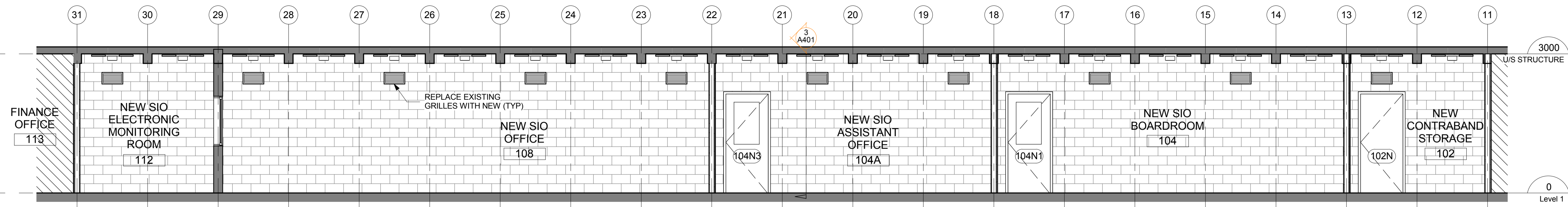
**CORRECTIONAL SERVICE CANADA**

Project title/Titre du projet  
33344 KING ROAD, ABBOTSFORD, BC  
**MATSQUI INSTITUTION BLDG M2A (ADMIN) SIO OFFICE RELOCATION**

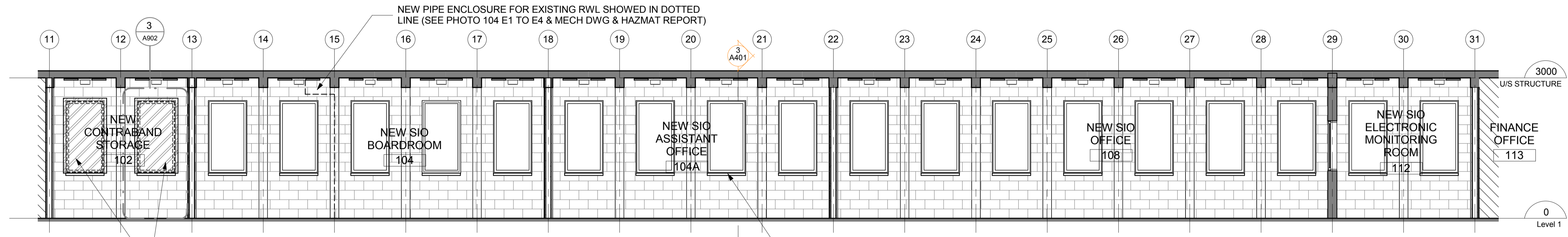
Consultant Approval Box Only  
Designed by/Concept par DD  
Drawn by/Dessiné par DD  
PWGSC Project Manager/Administrateur de Projets TPSSC TONY TANG  
PWGSC, Regional Manager, Architectural and Engineering Services/Gestionnaire régional, Services d'architecture et de génie, TPSSC PREETIPAL PAUL

**REFLECTED CEILING PLANS - DEMOLITION & NEW**

Project No./No. du projet <b>R.084072.001</b>	Sheet/ Feuille <b>A301</b>	Revision no./La Revision no.
--	-------------------------------	------------------------------



6 Section 2 - NEW  
A201 1:50



5 Section 1 - NEW  
A201 1:50



PHOTO 104 E4



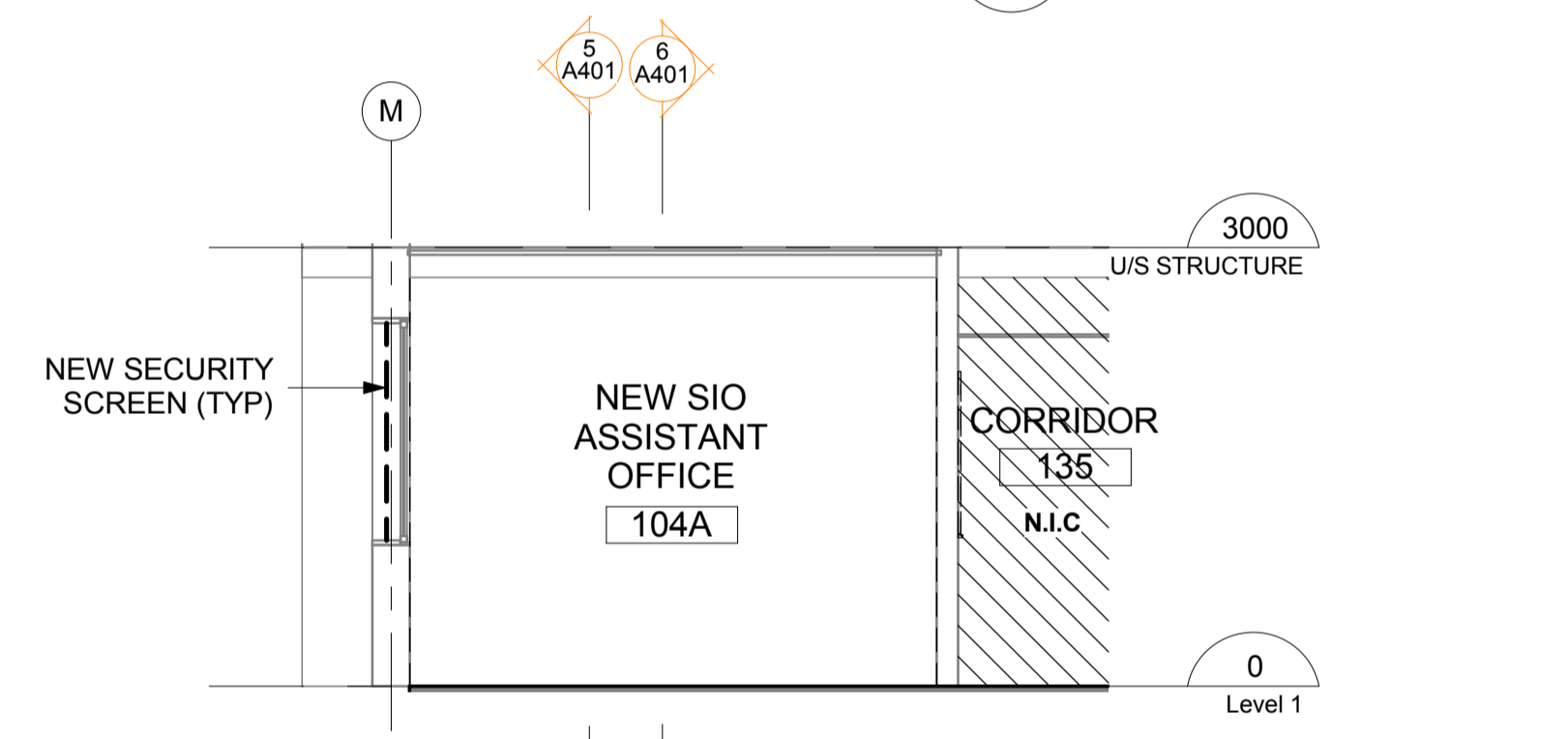
PHOTO 104 E3



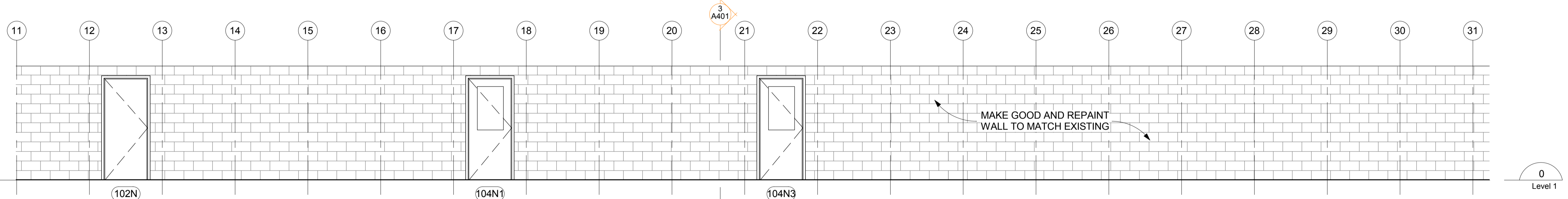
PHOTO 104 E2



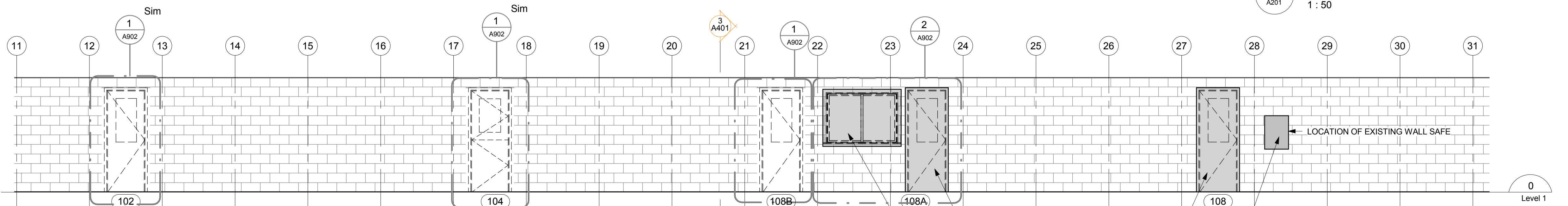
PHOTO 104 E1



3 Section A - NEW  
A201 1:50



2 INTERIOR ELEVATION - NEW  
A201 1:50



1 INTERIOR ELEVATION - DEMOLITION  
A201 1:50

Revision/Revision	Description/Description	Date/Date
2	ISSUE FOR TENDER	2016/12/21
1	ISSUE FOR 50% SUBMISSION	2016/10/21

**CORRECTIONAL SERVICE CANADA**

Project title/Titre du projet  
**33344 KING ROAD, ABBOTSFORD, BC  
MATSQUI INSTITUTION BLDG  
M2A (ADMIN) SIO OFFICE RELOCATION**

Consultant Approval Box Only  
Designed by/Concept par DD  
Drawn by/Dessine par DD  
PWGSC Project Manager/Administrateur de Projets TPSPG TONY TANG  
PWGSC, Regional Manager, Architectural and Engineering Services/Gestionnaire régional, Services d'architectural et de génie, TPSPG PREETIPAL PAUL

**ELEVATIONS & SECTIONS**

Project No./No. du projet <b>R.084072.001</b>	Sheet/ Feuille <b>A401</b>	Revision no./La Revision no.
--	-------------------------------	------------------------------

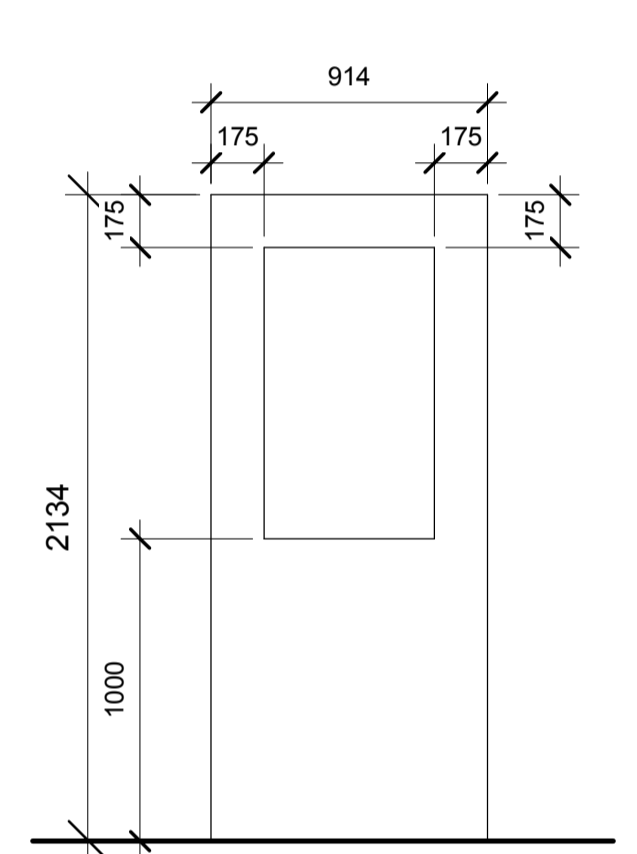
**LEGEND:**

CA	CARPET TILES
VCT	VINYL COMPOSITE TILE
ACT	ACOUSTIC CEILING TILE
PT	PAINT FINISH
WB	RUBBER WALL BASE
ICM	INSULATED CORE METAL
SCM	SECURITY CORE METAL
PS	PRESS STEEL FRAME

ROOM NAME	ROOM NO.	FLOOR		WALLS				Ceiling Finish	Comments
		Floor Finish	Base Finish	East Wall	South Wall	West Wall	North Wall		
FINANCE OFFICE	113	-	WB	PT	-	-	-	ACT	
NEW SIO ELECTRONIC MONITORING ROOM	112	VCT	WB	PT	PT	PT	PT	ACT	CEILING HEIGHT REMAINS THE SAME AS EXISTING
NEW SIO OFFICE	108	VCT	WB	PT	PT	PT	PT	ACT	
NEW SIO ASSISTANT OFFICE	104A	VCT	WB	PT	PT	PT	PT	ACT	
NEW SIO BOARDROOM	104	CA	WB	PT	PT	PT	PT	ACT	
NEW CONTRABAND STORAGE	102	VCT	WB	PT	PT	PT	PT	ACT	

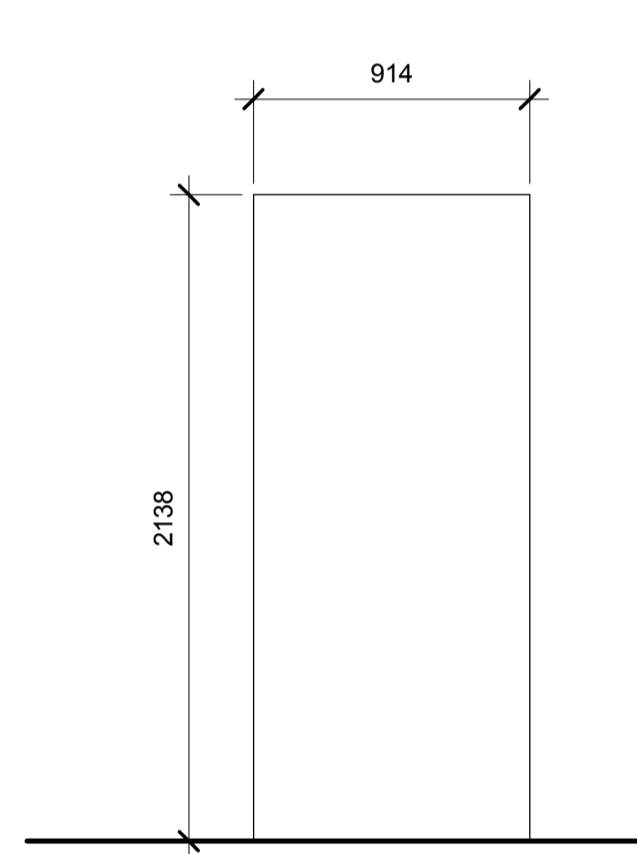
DOOR #	FROM ROOM #	From Room: Name	TO ROOM #	To Room: Name	DOOR DATA					DOOR MATERIAL	DOOR DATA Finish	FRAME DATA TYPE	COMMENTS
					Door Types	WIDTH	HEIGHT	THICKNESS	INSULATED				
102N	135	CORRIDOR	102	NEW CONTRABAND STORAGE	D2	914	2134	45	Yes	SCM	PAINT (PT)	F1	ACOUSTIC SOUNDPROOFING DOOR SWEEP & STRIPS
104N1	135	CORRIDOR	104	NEW SIO BOARDROOM	D1	914	2134	45	Yes	SCM	PAINT (PT)	F1	ACOUSTIC SOUNDPROOFING DOOR SWEEP & STRIPS
104N2	104	NEW SIO BOARDROOM	104A	NEW SIO ASSISTANT OFFICE	D1	914	2134	45	Yes	ICM	PAINT (PT)	F1	ACOUSTIC SOUNDPROOFING DOOR SWEEP & STRIPS
104N3	135	CORRIDOR	104A	NEW SIO ASSISTANT OFFICE	D1	914	2134	45	Yes	SCM	PAINT (PT)	F1	ACOUSTIC SOUNDPROOFING DOOR SWEEP & STRIPS
108N	108	NEW SIO OFFICE	104A	NEW SIO ASSISTANT OFFICE	D1	914	2134	45	Yes	ICM	PAINT (PT)	F1	ACOUSTIC SOUNDPROOFING DOOR SWEEP & STRIPS
112	108	NEW SIO OFFICE	112	NEW SIO ELECTRONIC MONITORING ROOM	(none)	865	2134	45					EXISTING DOOR. CHANGE TO ACCESSIBLE HARDWARE

**DOOR & FRAME SCHEDULE**



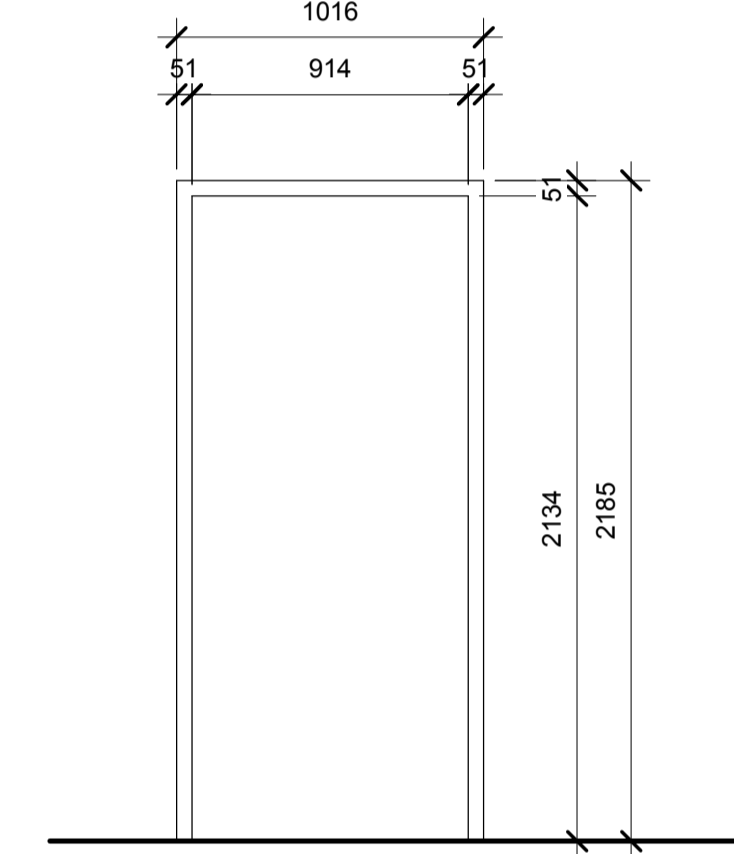
**DOOR TYPE D1**

INSULATED CORE METAL DOOR (ICM) OR SECURITY CORE METAL DOOR (SCM) W/ HALF LITE (8.8MM ACOUSTIC RATED LAMINATED GLAZING W PVB LAYER) PAINT FINISH



**DOOR TYPE D2**

SECURITY CORE METAL DOOR (SCM) PAINT FINISH



**FRAME TYPE F1**

PRESS STEEL FRAME PAINT FINISH

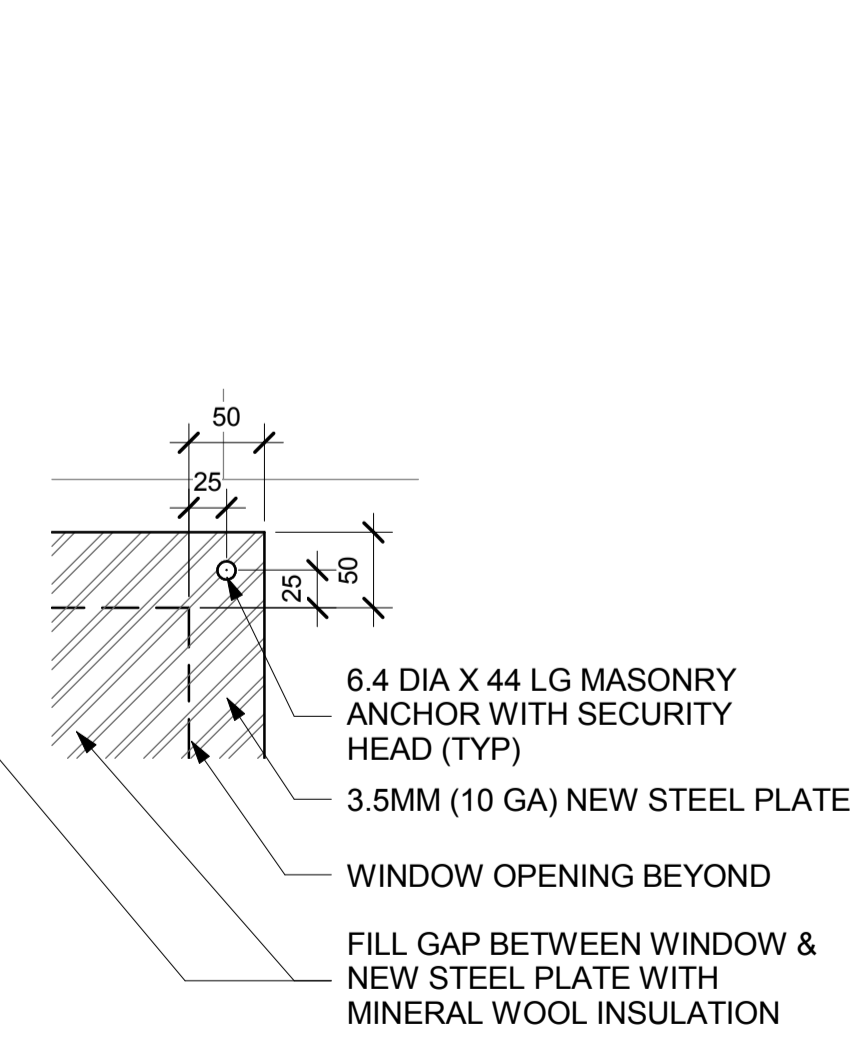
Revision/Revision	Description/Description	Date/Date
2	ISSUE FOR TENDER	2016/12/21
1	ISSUE FOR 50% SUBMISSION	2016/10/21

**CORRECTIONAL SERVICE CANADA**

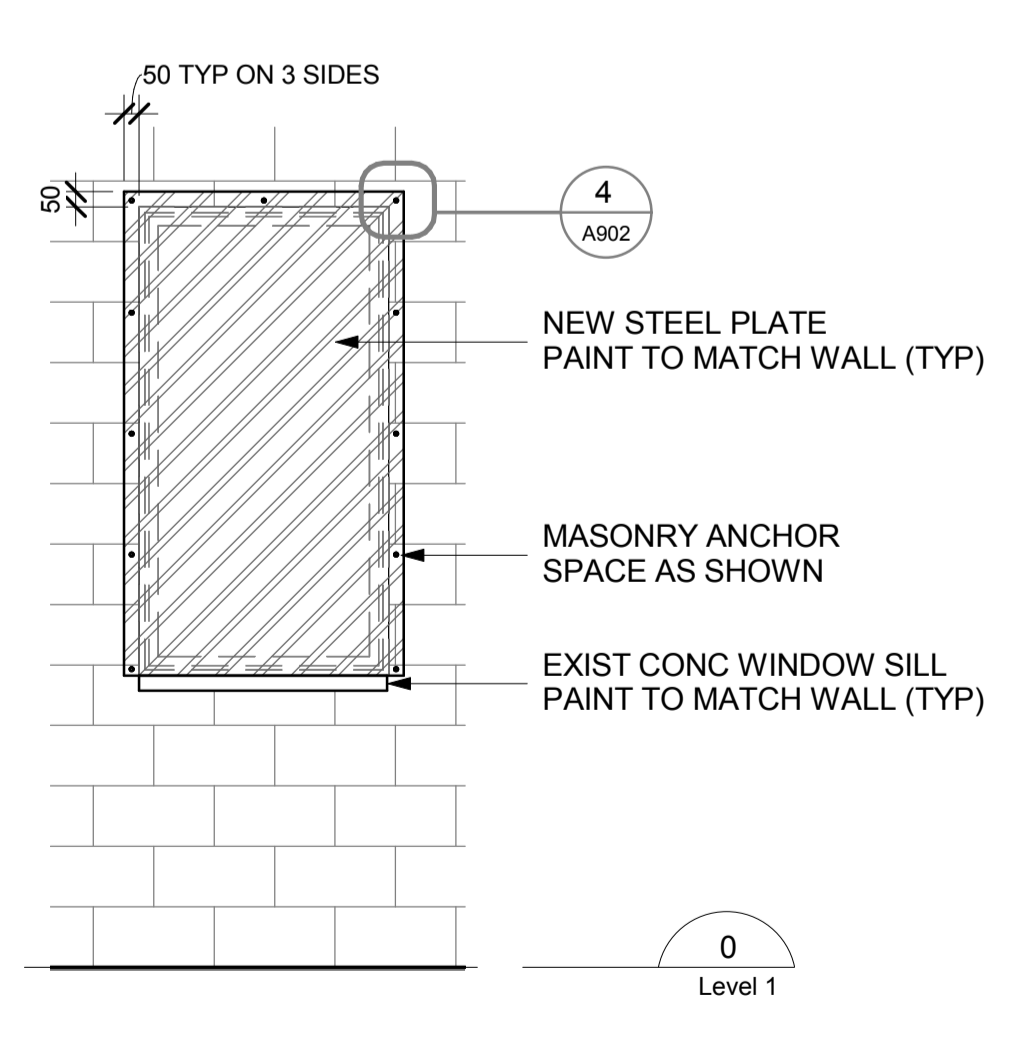
Project title/Titre du projet  
33344 KING ROAD, ABBOTSFORD, BC  
**MATSQUI INSTITUTION BLDG M2A (ADMIN) SIO OFFICE RELOCATION**



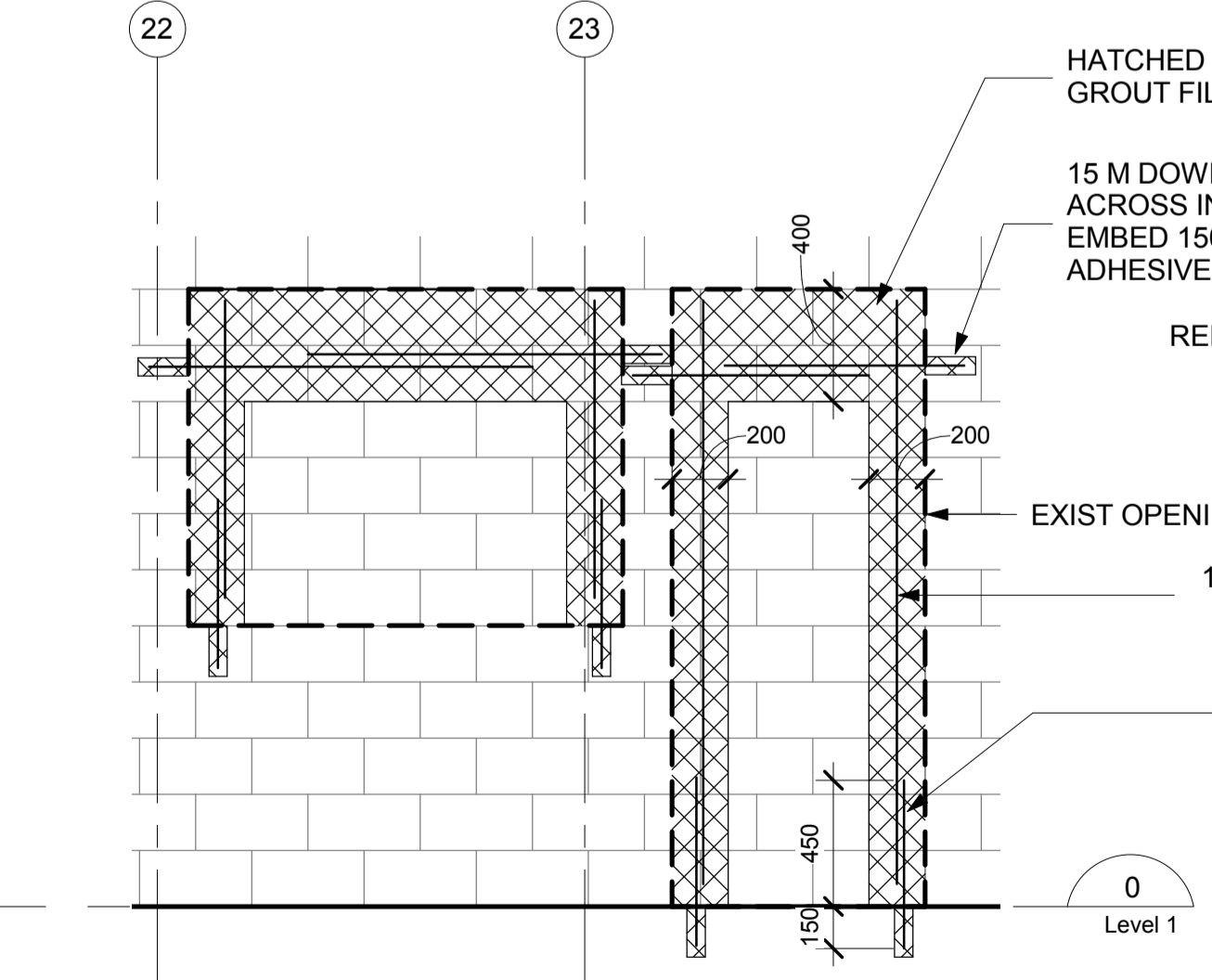
PHOTO 2A



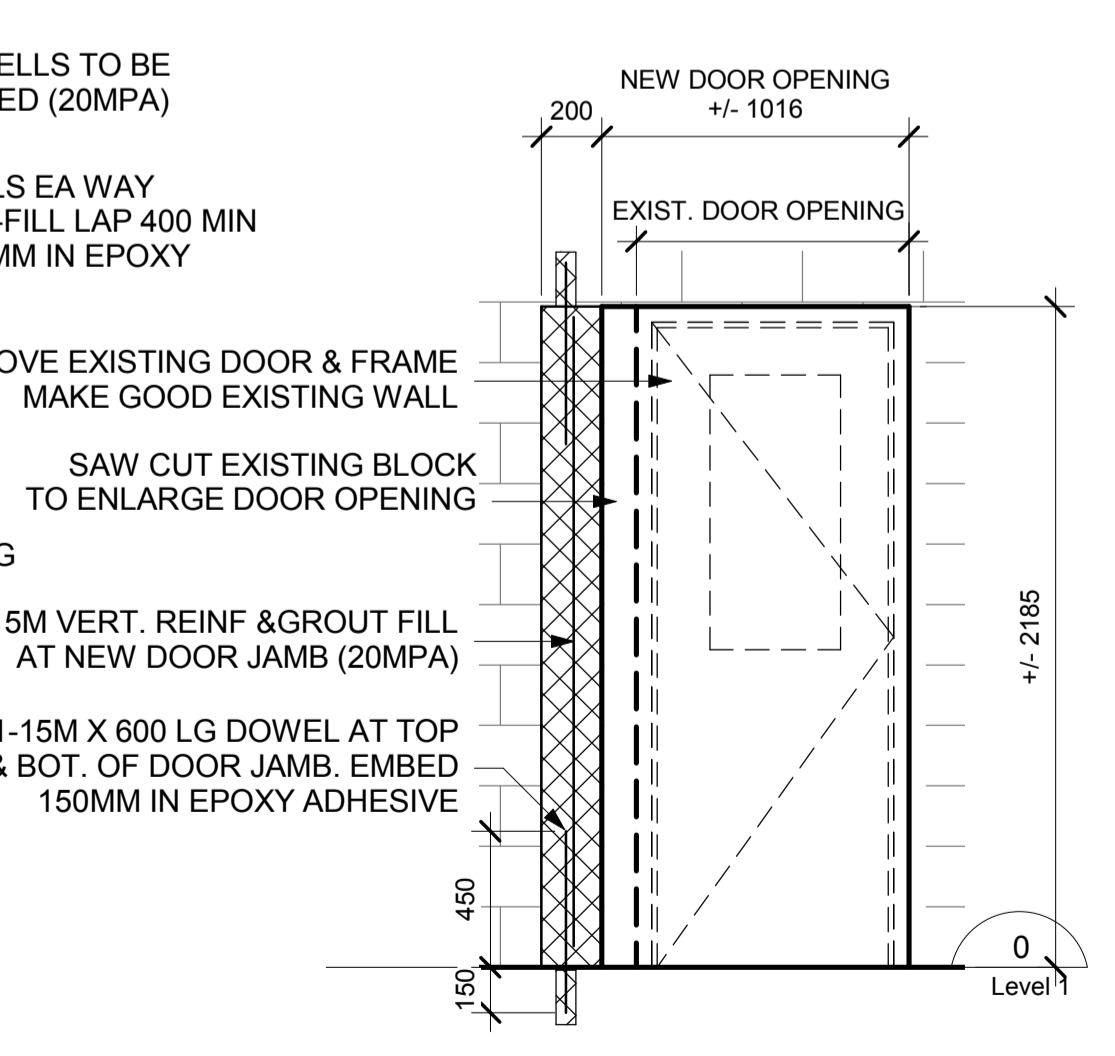
**4 STEEL PLATE CORNER DETAIL**  
A902 1:5



**3 TYP NEW STEEL PLATE COVER**  
A401 1:25



**2 TYP BLOCK WALL IN-FILL**  
A401 1:25

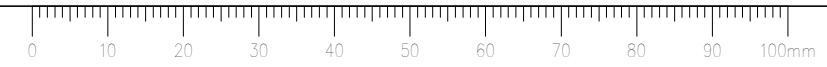


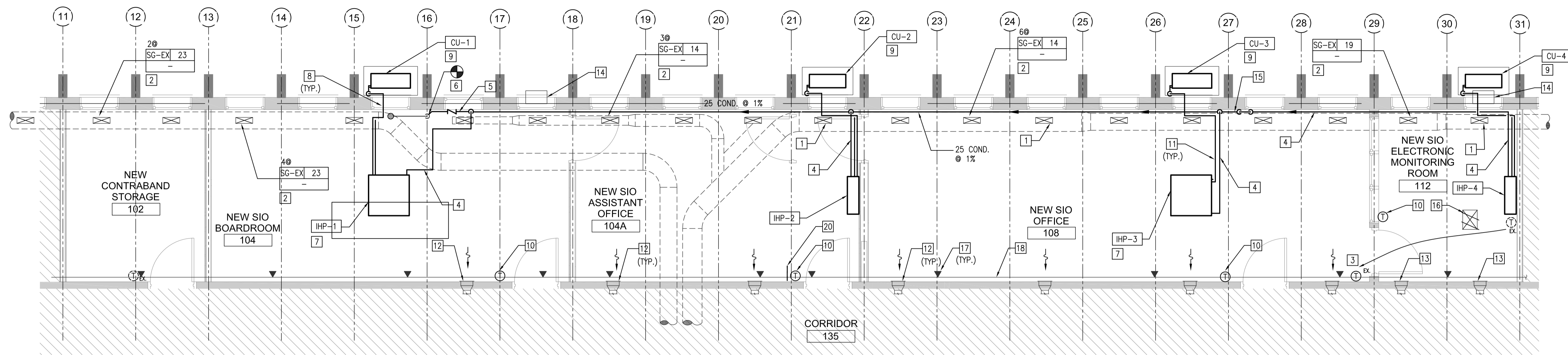
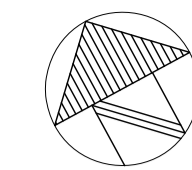
**1 TYP DOOR OPENING - NEW**  
A401 1:25

Consultant Approval Box Only  
Designed by/Concept par DD  
Drawn by/Dessine par DD  
PWGSC Project Manager/Administrateur de Projets TPSGC  
**TONY TANG**  
PWGSC, Regional Manager, Architectural and Engineering Services/  
Gestionnaire régional, Services d'architectural et de génie, TPSGC  
**PREETIPAL PAUL**

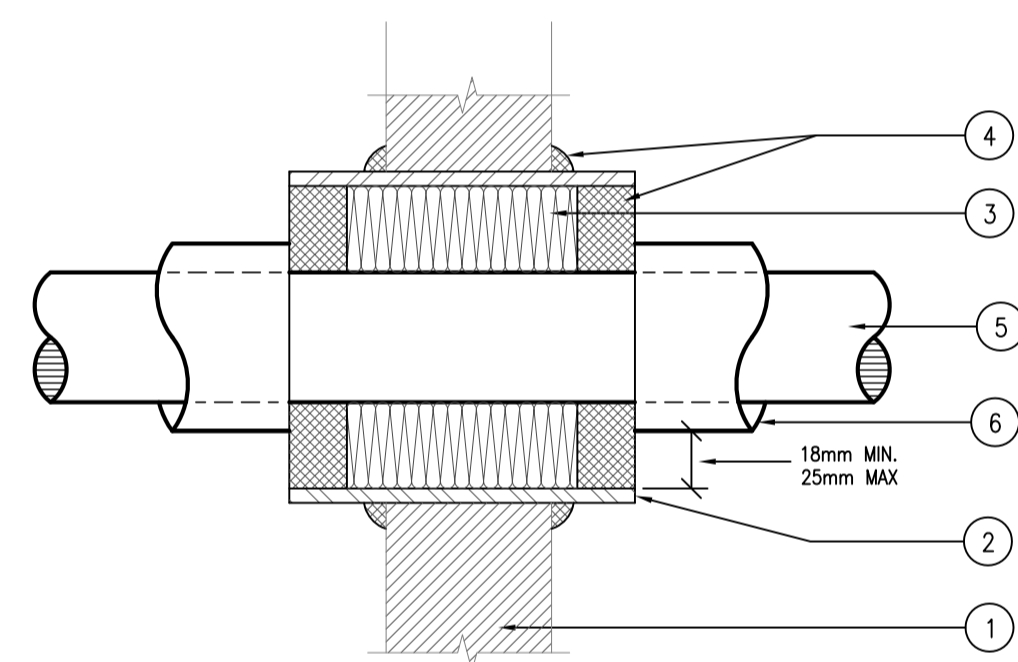
**DETAILS & SCHEDULES**

Project No./No. du projet <b>R.084072.001</b>	Sheet/ Feuille <b>A902</b>	Revision no./ La Revision no.
--	-------------------------------	--



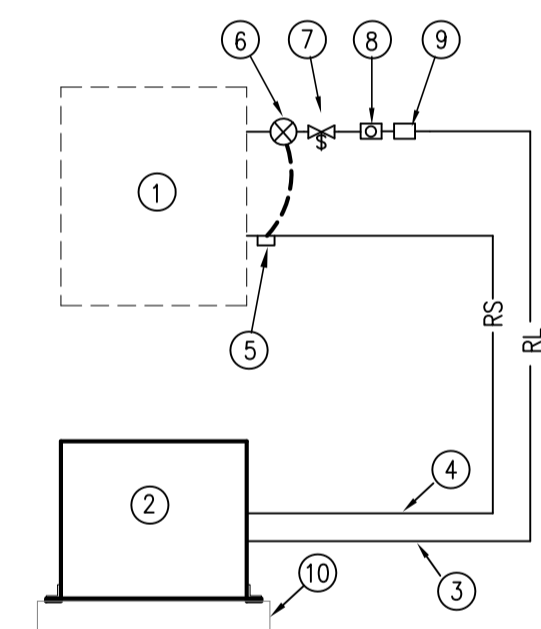


**PARTIAL MAIN FLOOR PLAN - RENOVATION**  
1:50



1. ACOUSTICAL WALL.
2. 24 GA.(MIN.) METAL SLEEVE EXTEND 50mm BEYOND WALL.
3. FIBREGLASS INSULATION 1.5 PCF. 100% FILL.
4. NON-HARDENING SILICONE SEALANT.
5. PIPE TO BE CENTRED APPROXIMATELY IN OPENING.
6. PIPE INSULATION WHERE IT OCCURS.

**PIPE PENETRATION THROUGH ACOUSTICAL WALL**  
N.T.S.



1. INDOOR EVAPORATOR
2. CONDENSING UNIT.
3. LIQUID LINE
4. SUCTION LINE
5. EXPANSION VALVE SENSOR
6. THERMOSTATIC EXPANSION VALVE
7. SOLENOID VALVE
8. SIGHT GLASS
9. FILTER DRYER.
10. CONC. PAD.

NOTE:  
INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

**REFRIGERANT PIPING SCHEMATIC**  
N.T.S.

9. PROVIDE CONC. PAD FOR OUTDOOR CONDENSING UNIT. CONC. PAD SHALL BE MIN. 100mm THICK, ON 150mm COMPACTED GRANULAR FILL. CONCRETE SHALL BE 32MPa 28 DAY STRENGTH.
10. HARD-WIRED REMOTE CONTROLLER FOR SPLIT SYSTEM.
11. REFRIGERATION PIPING. OFFSET AS REQUIRED TO CLEAR LIGHTING FIXTURES.
12. EX. R/A GRILLE.
13. REMOVE EX. R/A GRILLE, BLANK OFF DUCT OPENING AND RE-INSTALL GRILLE.
14. REMOVE EXISTING WINDOW SHAKER.
15. CONDENSATE DRAIN BY GRAVITY STARTS AT GRIDLINE 27 AND SHALL BE INSTALLED AS HIGH AS POSSIBLE (TO UNDERSIDE OF CONCRETE TEE).
16. REMOVE EX. CEILING GRILLE AND CAP EX DUCTWORK.
17. EX. SIDEWALL SPRINKLER HEAD.
18. EX. SPRINKLER PIPING.
19. PROVIDE Baffle BETWEEN EX. SPRINKLER HEADS IN ACCORDANCE W/ NFPA 13.

**DRAWING NOTES:**

1. REMOVE AND REINSTALL EX. S/A FLOOR GRILLE TO FACILITATE FLOORING REPLACEMENT. BLANK OFF DUCT OPENING BEFORE REINSTALLING GRILLE.
2. REMOVE AND REINSTALL EX. S/A FLOOR GRILLE TO FACILITATE FLOORING REPLACEMENT. RE-BALANCE EX. S/A FLOOR GRILLE TO AIRFLOW NOTED.
3. RELOCATE EX. THERMOSTAT.
4. 20 CONDENSATE DRAIN (PUMPED) FROM INDOOR UNIT. CONNECT TO TOP OF CONDENSATE DRAIN MAIN AT 45 DEGREE.
5. INSTALL CONDENSATE DRAIN MAIN ABOVE WINDOWS. PROVIDE CHECK VALVE UPSTREAM OF RWL CONNECTION.
6. CONNECT TO EX. RWL (SEE PICTURES #1 & #2). MAKE GOOD EXISTING PIPE INSULATION AND INSTALL NEW PVC JACKET FOR EX. RWL. EXISTING THERMAL INSULATION WRAP IS ASBESTOS CONTAINING; REFER TO DIVISION 2 SPECIFICATIONS FOR HAZMAT PROCEDURES.
7. INSTALL INDOOR UNIT (CASSETTE TYPE) BETWEEN CONCRETE TEES AND SUSPEND UNIT FROM EX. CONC. ROOF. ANCHORS AND SEISMIC RESTRAINT TO BE DESIGNED BY SEISMIC ENGINEER IN ACCORDANCE WITH SPECIFICATIONS. SEE GENERAL NOTE 5.
8. EXTERIOR WALL PENETRATIONS ABOVE WINDOW; BOTTOM OF PIPE PENETRATION @ MIN. 200mm ABOVE WINDOW. SEAL PENETRATION WATERTIGHT. OUTDOOR REFRIGERANT PIPING SHALL HAVE ALUMINUM JACKET PER SPECIFICATIONS.

**GENERAL NOTES**

1. INFORMATION SHOWN IS BASED ON AVAILABLE RECORD DOCUMENTS. CONTRACTOR SHALL VERIFY ON SITE PRIOR TO DEMOLITION. NOTIFY DEPARTMENTAL REPRESENTATIVE SHOULD THERE BE DISCREPANCIES.
2. REMOVE HAZARDOUS MATERIALS UNDER MECHANICAL DIVISIONS (21, 22, 23, 25) IN ACCORDANCE WITH SPECIFICATIONS AND WORKSAFEBC PROCEDURES.
3. FOR CLARITY PURPOSE, NOT ALL EXISTING MECHANICAL SERVICES (DUCTWORK, PIPING, EQUIPMENT, CONDUITS) ARE SHOWN ON DRAWINGS. ROUTING OF NEW SERVICES SHALL BE COORDINATED WITH EXISTING SERVICES, AND SHALL BE CONFIRMED ON SITE BY CONTRACTORS. MAKE ALLOWANCE FOR RE&RE OF EXISTING MECHANICAL SERVICES TO FACILITATE INSTALLATION OF NEW WORK.
4. RE-BALANCE MECHANICAL SYSTEMS, ALL NEW AND EXISTING DIFFUSERS/ GRILLES TO AIRFLOW RATES NOTED ON DRAWINGS.
5. EXISTING PRE-CAST CONCRETE ROOF SLAB IS 50mm THICK. ALL ANCHORS/ATTACHMENTS TO ROOF FOR MECHANICAL EQUIPMENT AND PIPING SHALL HAVE SHALLOW EMBEDMENT SUITABLE FOR EXISTING ROOF STRUCTURE.

MECHANICAL SYMBOLS	
SYMBOL	DESCRIPTIONS
	EXISTING DUCTWORK
	EXISTING DUCTWORK BELOW GRADE
	RETURN/EXHAUST AIRFLOW DIRECTION
	SUPPLY AIRFLOW DIRECTION
	THERMOSTAT / TEMPERATURE SENSOR
	POINT OF CONNECTION
	EQUIPMENT TAG
	AIR DISTRIBUTION TAG AIRFLOW: L/S (METRIC)
	ROOF DRAIN
	PIPE DOWN
	SIDEWALL SPRINKLER HEAD

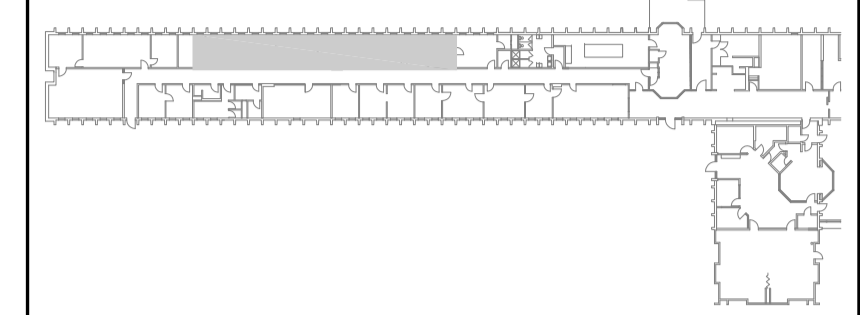
ABBREVIATIONS	
ABBREV.	DESCRIPTIONS
AFF	ABOVE FINISHED FLOOR
COND.	CONDENSATE DRAIN
CU	CONDENSING UNIT
DWG	DRAWING
EA, E/A	EXHAUST AIR
ELEV.	ELEVATION
EX.	EXISTING
IHP	INDOOR HEAT PUMP (EVAPORATOR)
RA, R/A	RETURN AIR
RWL	RAIN WATER LEADER
SA, S/A	SUPPLY AIR
SF	SUPPLY FAN
TYP.	TYPICAL
UON	UNLESS OTHERWISE NOTED



**PICTURE #2**



**PICTURE #1**



5		
4		
3		
2		
1		
0	ISSUED FOR TENDER	2016.12.21
Revision/Revision	Description/Description	Date/Date

Client/client  
**CORRECTIONAL SERVICE CANADA**

Project title/Titre du projet  
**ABBOSFORD, BC  
33344 KING ROAD**

**MATSQUI INSTITUTION  
BUILDING M2A  
SIO OFFICE RELOCATION**

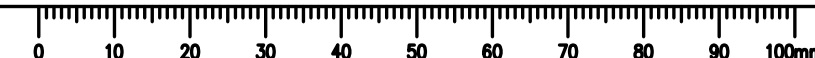
Consultant Signature Box Only

Designed by/Concept par  
**M.NG**  
Drawn by/Dessine par  
**M.NG / 2016.09.22**

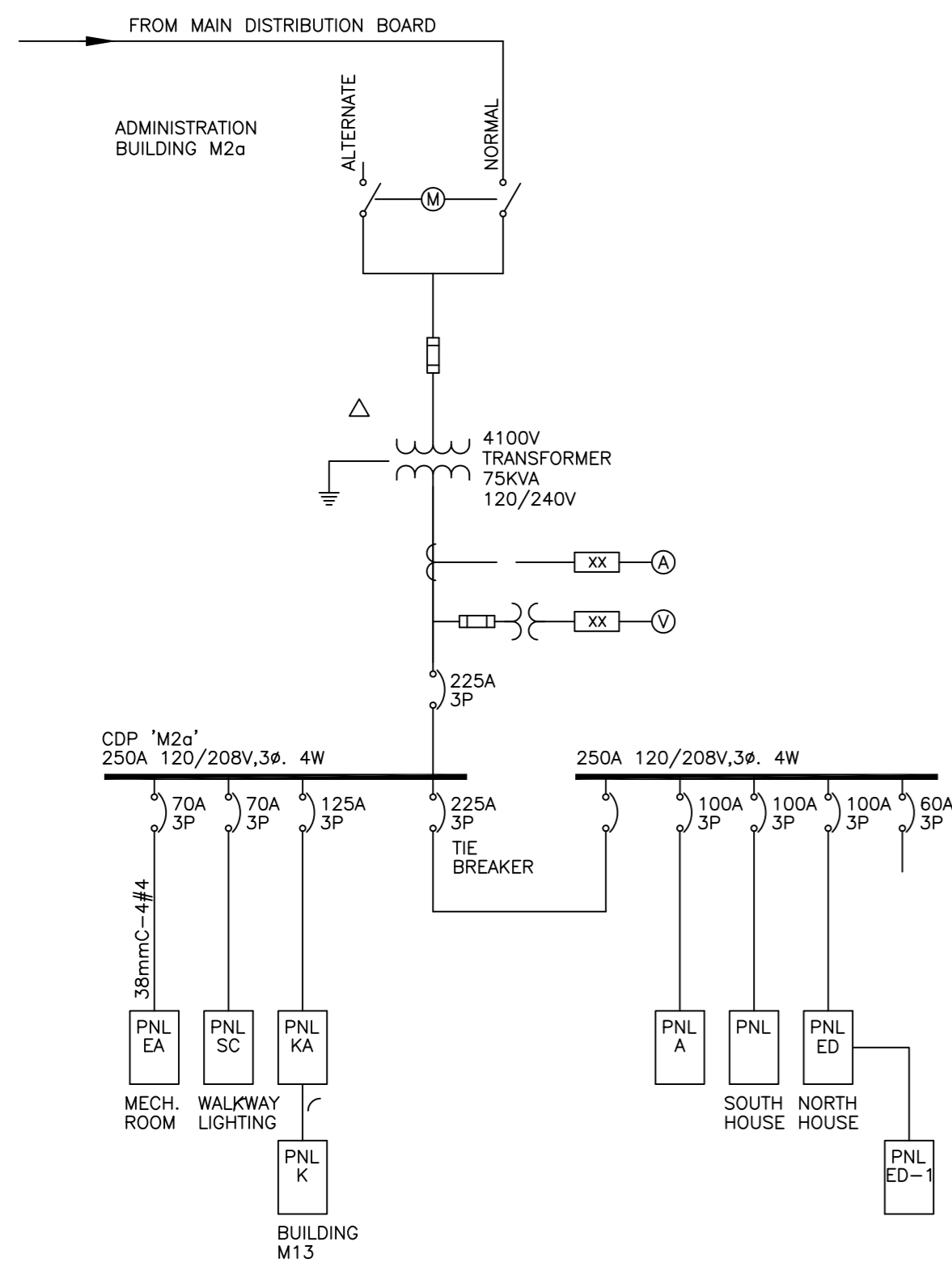
PWGSC Project Manager/Administrateur de Projets TPSGC  
**TONY TANG**  
PWGSC, Regional Manager, Architectural and Engineering Services/  
Gestionnaire régional, services d'architecture et de génie, TPSGC  
**PREETIPAL PAUL**

Drawing title/Titre du dessin  
**PARTIAL MAIN FLOOR PLAN  
RENOVATION**

Project No./No. du projet <b>R.084072.001</b>	Sheet/Feuille <b>M-1 OF 1</b>	Revision no./ La Révision no. <b>0</b>
--	--------------------------------------	---







**PARTIAL SINGLE LINE DIAGRAM (EXISTING)**  
SCALE NTS

**GENERAL NOTES**

- REMOVE AND RELOCATE EXISTING RECEPTACLES AND WIRING WITHIN THE PROJECT AREA WHERE INDICATED ON THE DRAWINGS.
- PROVIDE NEW RECEPTACLES AS INDICATED. COLOUR OF COVERPLATES TO MATCH EXISTING.
- RUN ALL NEW WIRING FOR POWER AND LIGHTING CIRCUITS FROM RESPECTIVE PANEL BOARDS LOCATED IN THE MECHANICAL/ELECTRICAL ROOM. PROVIDE NEW BREAKERS IN THE PANEL BOARDS AS INDICATED WITH DARKER LINES ON THE PANEL SCHEDULES.
- PROVIDE UPDATED AND TYPED NEW PANEL SCHEDULES FOR ALL NEW AND EXISTING PANELBOARDS SHOWN ON THIS DRAWING.
- ALL OUTDOOR DISCONNECT SWITCHES SHALL BE RATED FOR NEMA - TYPE 3X.
- PROVIDE NEW DATA, TELEPHONE OUTLETS AND CCTV MONITORS c/w OUTLETS CONDUITS AND WIRING AS INDICATED ON THE PLANS. MINIMUM CONDUIT SIZE DATA/TEL RUNS IS 27mm. USE CAT 6 UTP CABLE. EACH OUTLET SHALL HAVE 2 RJ45 JACKS WITH 2 SEPARATE CAT 6 CABLES RUNNING FROM THE OUTLET LOCATION TO PATCH PANEL IN MECHANICAL/ELECTRICAL ROOM, SIO OFFICE ROOM #112 AND CER ROOM RESPECTIVELY. SEE PICTURE OF TYPICAL DATA/TEL OUTLET ON DRAWING #E-5.
- PROVIDE NEW CONDUITS FOR NEW POWER, CCTV AND COMMUNICATIONS OUTLETS. PAINT ALL NEW CONDUITS TO MATCH THE NEW WALL PAINTING.
- PROVIDE CIRCUIT IDENTIFICATION LABELING ON ALL OUTLETS.
- PROVIDE CCTV OUTLET, INMATE TELEPHONE OUTLET AND UPS POWER OUTLET JACKS AND RECEPTACLES IN DIFFERENT COLOUR - USE RED RECEPTACLES FOR UPS OUTLETS. DISCUSS WITH DEPARTMENT REPRESENTATIVE.
- REFER TO DRAWINGS AND SPECIFICATIONS FOR ELECTRONIC EQUIPMENT, INCLUDING CCTV DISPLAY MONITORS, WALL MOUNT TV, WALL MOUNT FIBRE OPTIC PATCH CABINET c/w SWITCH AND TERMINATION MODULES, NVUS (NETWORK VIDEO USER STATION), CONSOLES AND VIDEO WALL.

SQUARE D  
120/208V, 225A - 3Ø 4W  
FED FROM 15KVA UPS

CCT	AMP	DESCRIPTION	CCT	AMP	DESCRIPTION
1	15	CER CABINET #1 RECEPTACLE	2	15	CER CABINET #6 RECEPTACLE
3	15	CER CABINET #1 RECEPTACLE	4	15	CER CABINET #6 RECEPTACLE
5	15	CER CABINET #2 RECEPTACLE	6	15	CER CABINET #7 RECEPTACLE
7	15	CER CABINET #2 RECEPTACLE	8	15	CER CABINET #7 RECEPTACLE
9	15	CER CABINET #3 RECEPTACLE	10	15	CER CABINET #8 RECEPTACLE
11	15	CER CABINET #3 RECEPTACLE	12	15	CER CABINET #8 RECEPTACLE
13	15	CER CABINET #4 RECEPTACLE	14	15	CER CABINET #9 RECEPTACLE
15	15	CER CABINET #4 RECEPTACLE	16	15	CER CABINET #9 RECEPTACLE
17	15	CER CABINET #5 RECEPTACLE	18	15	CER CABINET #10 RECEPTACLE
19	15	CER CABINET #5 RECEPTACLE	20	15	CER CABINET #10 RECEPTACLE
21		INT PANEL - PFV	22		CELL CALL TD
23		CAB #8 RADIO EQUIPMENT	24		CELL CALL TD
25		SPARE	26		CELL CALL SEG
27		SPARE	28		CELL CALL SEG
29		SPARE	30		CELL CALL SEG
31	15	SMALL OFFICE LIGHTS	32	15	MCCP CCTV MONITOR RECEPTACLE
33	15	SMALL OFFICE LIGHTS	34	15	MCCP CCTV MONITOR RECEPTACLE
35	15	MCCP CONSOLE RECEPTACLE	36	15	MCCP CCTV MONITOR RECEPTACLE
37	15	MCCP CONSOLE RECEPTACLE	38	15	MCCP CCTV MONITOR RECEPTACLE
39	15	MCCP CONSOLE RECEPTACLE	40	15	MCCP CCTV MONITOR RECEPTACLE
41	15	SIO OFFICE - ROOM #112	42	15	MCCP CCTV MONITOR RECEPTACLE
43		SPACE	44	15	MCCP CCTV MONITOR RECEPTACLE
45		SPACE	46	15	MCCP CCTV MONITOR RECEPTACLE
47	15	SIO OFFICE - ROOM #112	48	15	MCCP CCTV MONITOR RECEPTACLE
49		SPACE	50	15	MCCP CCTV MONITOR RECEPTACLE
51		SPACE	52		SPARE
53	15	SIO OFFICE - ROOM #112	54		SPARE
55		SPACE	56		SPARE
57		SPACE	58		SPARE
59		SPACE	60	60	PANEL UPS B
61		SPACE	62		SPACE
63		SPACE	64		SPACE
65		SPACE	66		SPACE
67		SPACE	68		SPACE
69		SPACE	70		SPACE
71		SPACE	72		SPACE

**NOTE:**

1. NEW CIRCUIT NUMBERS SHOWN ABOVE SHALL BE CONFIRMED ON SITE TO ENSURE THAT THE UPS POWER CIRCUITS IN ROOM #112 SHALL BE SUPPLIED FROM THE PHASE OF UPS UNIT THAT HAS THE SMALLEST LOAD. REFER TO PICTURE ON DRAWING E-5 FOR UPS MONITOR DISPLAY. DISCUSS WITH DEPARTMENT REPRESENTATIVE.

**LEGEND OF SYMBOLS**

	PANEL BOARD
	POWER OUTLET (DUPLEX)
	POWER OUTLET (QUAD PLEX)
	TELEPHONE
	DATA
	FIXED POINT DEVICE (WIRELESS)
	FIXED POINT DEVICE (HARDWIRED)
	F/A SMOKE DETECTOR (SEE NOTE 1 BELOW)
	DRAWING NOTE
	THERMOSTAT
	DISCONNECT SWITCH
	MECHANICAL EQUIPMENT
	SINGLE POLE TOGGLE SWITCH
	SINGLE POLE TOGGLE SWITCH (3 WAY)
	CCTV MONITOR/OUTLET
	UNIT EQUIPMENT DUAL HEAD LIGHTS

**ABBREVIATIONS**

E	EXISTING TO REMAIN
ER	EXISTING TO BE RELOCATED
R	EXISTING TO BE REMOVED
c/w	COMPLETE WITH

**NOTE:**  
1. FA SMOKE DETECTOR, COMPATIBLE WITH GE-EST3 FIRE ALARM SYSTEM. PHOTO-ELECTRIC TYPE; ADDRESSABLE, VARIABLE SENSITIVITY, PLUG-IN TYPE WITH FIXED BASE; WIRE-IN BASE ASSEMBLY WITH INTEGRAL RED ALARM LED LIGHT; ELECTRONICS TO COMMUNICATE DETECTOR'S STATUS TO ADDRESSABLE MODULE.

SQUARE D  
120/208V 125A 3PH-4W  
PANEL 'ED-1' (EXISTING)

LOAD	TRIP AMP	BR. NO.	BUS A B C	BR. NO.	TRIP AMP	LOAD
PLUGS ROOM 132	20	1		2	20	COPIER ROOM 113
PLUGS ROOM 132	20	3		4	20	COPIER ROOM 113
PLUGS ROOM 132	20	5		6	2P	CU-3 - CONDENSING UNIT
CU-2 - CONDENSING UNIT	2P	7		8	2P	
	20	9		10	15	RM 104a - RECEPTACLE
RM 104 - PROJECTION TV	15	11		12		
RM 108 - CCTV MONITORS	15	13		14		
RM 104a - PRINTER	15	15		16		
RM 108 - SINET	15	17		18		
RM 108 - TEST EQUIPMENT	15	19		20	15	

WESTINGHOUSE  
120/208V 90A 3PH-4W  
PANEL 'ED' (EXISTING)

LOAD	TRIP AMP	BR. NO.	BUS A B C	BR. NO.	TRIP AMP	LOAD
MECH. RM LIGHTS	15	1		2	15	SPARE
WHE RM FAN/MECH. RM PLUGS	15	3		4	15	HONEYWELL LCP
CONTROL CIRCUIT MOTORS	15	5		6	15	WATER CHILLER
PANEL ED-1	3P	7		8	15	FAN H-7
		9		10	15	SPARE
		11		12	15	S.O.
PLUG FOR MPA UNIT	15	13		14	15	OFFICE 1 A/C
-	15	15		16	15	OFFICE 2 A/C
-	15	17		18	15	OUTSIDE RECEPTACLE
-	15	19		20	15	AWMS A/C
A/C PLUG	15	21		22	15	-
A/C PLUG	15	23		24	15	-
CU-1 - CONDENSING UNIT	2P	25		26	2P	CU-4 - CONDENSING UNIT
	20	27		28	20	
-	15	29		30	15	-

WESTINGHOUSE  
120/208V 140A 3PH-4W  
PANEL 'A' (EXISTING)

LOAD	TRIP AMP	BR. NO.	BUS A B C	BR. NO.	TRIP AMP	LOAD
FINANCE	15	1		2	15	OFFICE RECEPT
FINANCE	15	3		4	15	OFFICE RECEPT
COMPUTER	15	5		6	15	OFFICE 3
OFFICE RECEPT	15	7		8	15	OFFICE 1 & 2
HALL RECEPT	15	9		10	15	OFFICE RECEPT
HALL RECEPT	15	11		12	15	OFFICE RECEPT
HALL RECEPT	15	13		14	15	PAY & BENEFITS
ADMIN CLERK	15	15		16	15	PAY & BENEFITS
WARDENS OFFICE	15	17		18	15	INFORMATIC A/C
OFFICE RECEPT	15	19		20	15	TEL SWITCHBOARD
INFORMATICS ROOM	15	21		22	15	TEL SWITCHBOARD
VAULT LIGHTS	15	23		24	15	WASHROOM LIGHTS
GENERAL OFFICE	15	25		26	15	OFFICE LIGHTS
GENERAL OFFICE	15	27		28	15	CONFERENCE OFFICE
SMALL OFFICE LIGHTS	15	29		30	15	SMALL OFFICE LIGHTS
SMALL OFFICE LIGHTS	15	31		32	15	SMALL OFFICE LIGHTS
SMALL OFFICE LIGHTS	15	33		34	15	SMALL OFFICE LIGHTS
RECORD OFFICE	15	35		36	15	OFFICE 21
OFFICE RECEPT	15	37		38	15	FURNACE OUTLET
PHOTO COPY ROOM	15	39		40	15	FURNACE OUTLET
PHOTO COPY ROOM	15	41		42		

**MECHANICAL EQUIPMENT SCHEDULE**

ITEM	DESCRIPTION	LOCATION	LOAD	VOLTS	PHASE	STARTER	DISCONNECT	PANEL	CONDUCTOR	NOTES
1	CU-1 A/C UNITS	OUTSIDE	-	208	1	N/A	30A	ED/CCT: 25, 27	3#12 + GND	1
2	CU-2 A/C UNITS	OUTSIDE	-	208	1	N/A	30A	ED-1/CCT: 7, 9	3#12 + GND	1
3	CU-3 A/C UNITS	OUTSIDE	-	208	1	N/A	30A	ED/ CCT: 6, 8	3#12 + GND	1
4	CU-4 A/C UNITS	OUTSIDE	-	208	1	N/A	30A	ED-1/CCT: 26, 28	3#12 + GND	1
5	INDOOR HEAT PUMP 1HP-1	RM. 104	-	120	1	N/A	15A		2#12 + GND	1
6	INDOOR HEAT PUMP 1HP-2	RM. 104g	-	120	1	N/A	15A		2#12 + GND	1
7	INDOOR HEAT PUMP 1HP-3	RM. 108	-	120	1	N/A	15A		2#12 + GND	1
8	INDOOR HEAT PUMP 1HP-4	RM. 112	-	120	1	N/A	15A		2#12 + GND	1
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-

- NOTES:**  
1. INDOOR HEAT PUMP UNITS SHALL BE WIRED TO RESPECTIVE OUTDOOR UNITS. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR CONNECTION OF OUTDOOR AND INDOOR UNITS.  
2. -  
3. -  
4. -  
5. -  
6. -

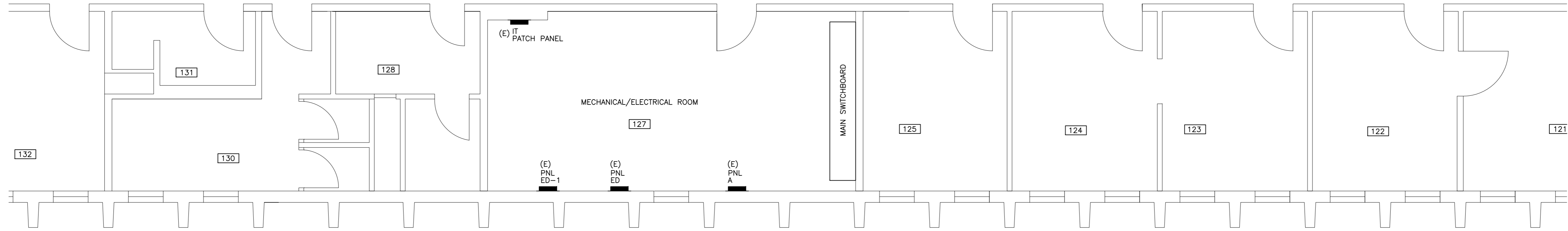
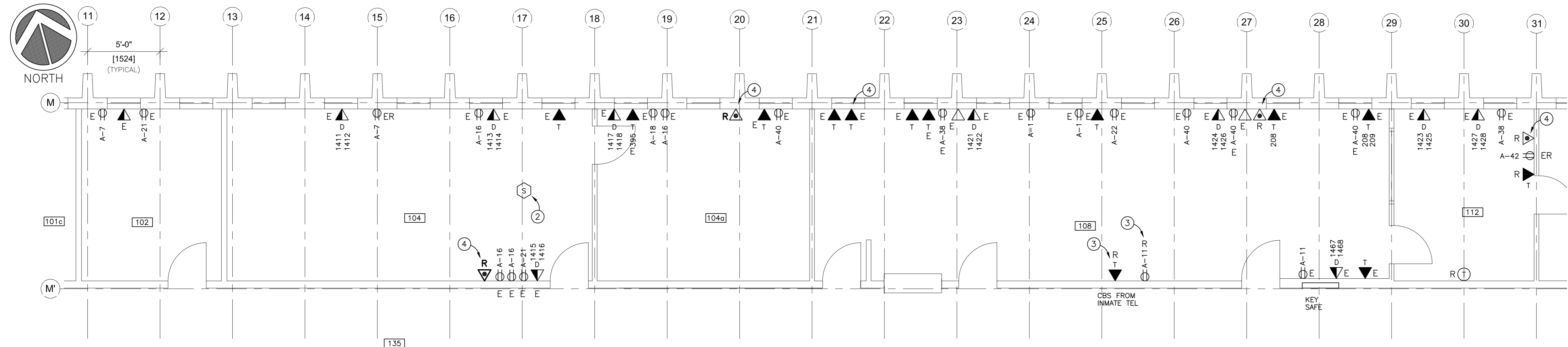
**CORRECTIONAL SERVICE CANADA**

Project title/Titre du projet  
**33344 KING ROAD, ABBOTSFORD, BC  
MATSQUI INSTITUTION  
BLDG M2A (ADMIN)  
SIO OFFICE RELOCATION**

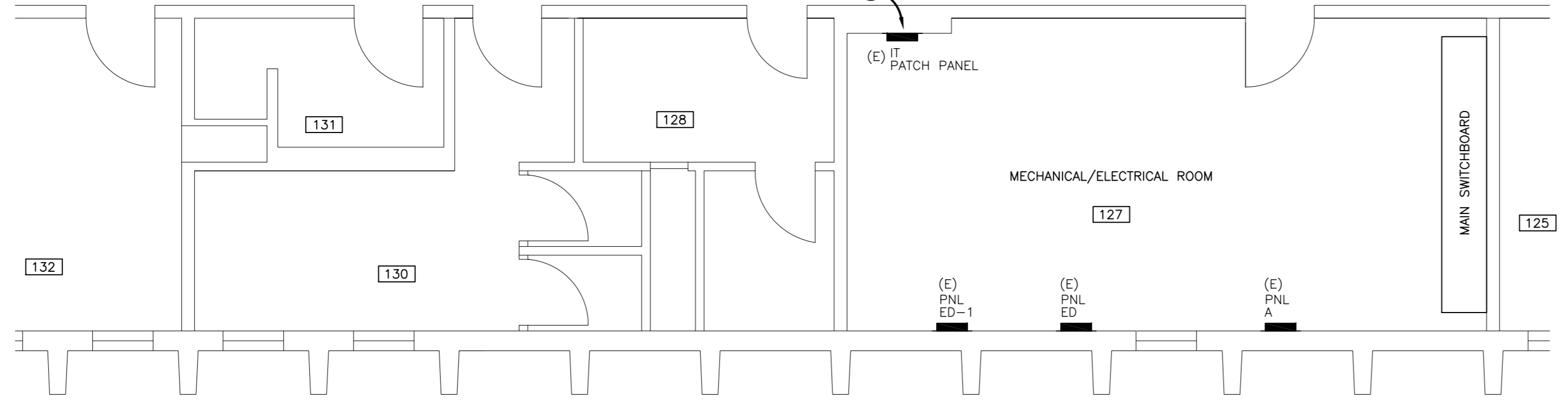
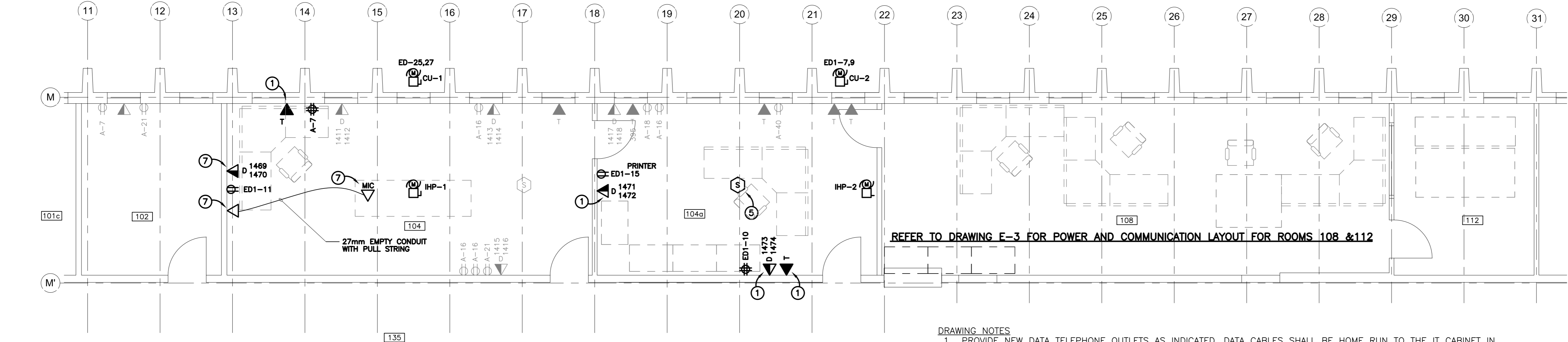
Consultant Approval Box Only  
Designed by/Concept par  
**VEYSEL AYDIN**  
Drawn by/Dessiné par  
**STEVE BANFIELD**  
PWGSC Project Manager/Administrateur de Projets TPSGC  
**TONY TANG**  
PWGSC Regional Manager, Architectural and Engineering Services/  
Gestionnaire régionale, Services d'architecture et de génie, TPSGC  
**PREETIPAL PAUL**  
Drawing title/Titre du dessin

**ELECTRICAL PANEL SCHEDULES  
MECHANICAL EQUIPMENT SCHEDULE  
SINGLE LINE DIAGRAM  
SYMBOL LEGEND**

Project No./No. du projet  
**R.084072.001**  
Sheet/Feuille  
**E-1**  
Revision no./  
La Révision no.  
**2**



**PARTIAL - EXISTING FLOOR PLAN - POWER & COMMUNICATION LAYOUT**  
SCALE 1:50



**PARTIAL - NEW FLOOR PLAN - POWER & COMMUNICATION LAYOUT**  
SCALE 1:50

- DRAWING NOTES**
1. PROVIDE NEW DATA TELEPHONE OUTLETS AS INDICATED. DATA CABLES SHALL BE HOME RUN TO THE IT CABINET IN MECHANICAL/ELECTRICAL ROOM #127 AND TELEPHONE CABLES TO THE EXISTING TERMINATION PANELS POINT IN CER ROOM #136 IN BUILDING M20.
  2. EXISTING SMOKE DETECTOR SHALL REMAIN. PROTECT AGAINST DUST AND MECHANICAL DAMAGE DURING CONSTRUCTION.
  3. REMOVE EXISTING POWER AND COMM. OUTLETS, CONDUITS AND WIRING BACK TO SOURCE (OR NEAREST AVAILABLE JUNCTION BOX) WHERE INDICATED.
  4. WIRE FIXED POINT CALL STATIONS SHALL BE REMOVED BY OTHERS. COORDINATE WITH DEPARTMENT REPRESENTATIVE. PROVIDE BLANK COVER PLATES ON THE OUTLET BOXES.
  5. ADD NEW ADDRESSABLE SMOKE DETECTORS IN THE ROOMS AS INDICATED. NEW DETECTORS TO MATCH EXISTING FIRE ALARM SYSTEM. CONNECT NEW SMOKE DETECTORS TO THE EXISTING ZONE AVAILABLE IN ROOM #104. PROVIDE PARTIAL VERIFICATION OF FIRE ALARM SYSTEM AND SUBMIT ORIGINAL COPY OF THE VERIFICATION REPORT TO DEPARTMENTAL REPRESENTATIVE. TYPE AND MANUFACTURER OF EXISTING FIRE ALARM SYSTEM IS GENERAL ELECTRIC - EST3. ALL FIRE ALARM SYSTEM INSTALLATIONS AND VERIFICATION SHALL BE IN ACCORDANCE WITH ULC STANDARDS (ULC-S524; ULC5537).
  6. WIRE NEW ETHERNET ROUTING SWITCH (WITHIN THE EXISTING WALL MOUNT COMMUNICATION CABINET). c/w FIBRE MODULE.
  7. PROVIDE 55" WALL MOUNT HD LED TV c/w SUPPORT CONSOLES, POWER OUTLET, DATA OUTLET AND TWO RJ45 MICROPHONE OUTLETS (ONE ON THE WALL AND ONE ON THE CEILING PER SPECIFICATION AND DRAWING) CONNECTED WITH 27mm CONDUIT.

Revision/Revision	Description/Description	Date/Date
2	RE-ISSUED FOR TENDER	13/01/2017
1	ISSUED FOR TENDER	21/12/2016
0	ISSUED FOR 50% REVIEW	21/10/2016

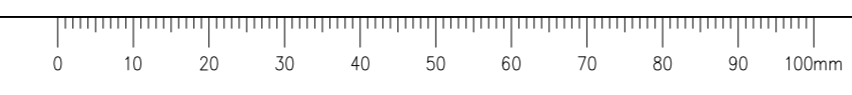
Client/client  
**CORRECTIONAL SERVICE CANADA**

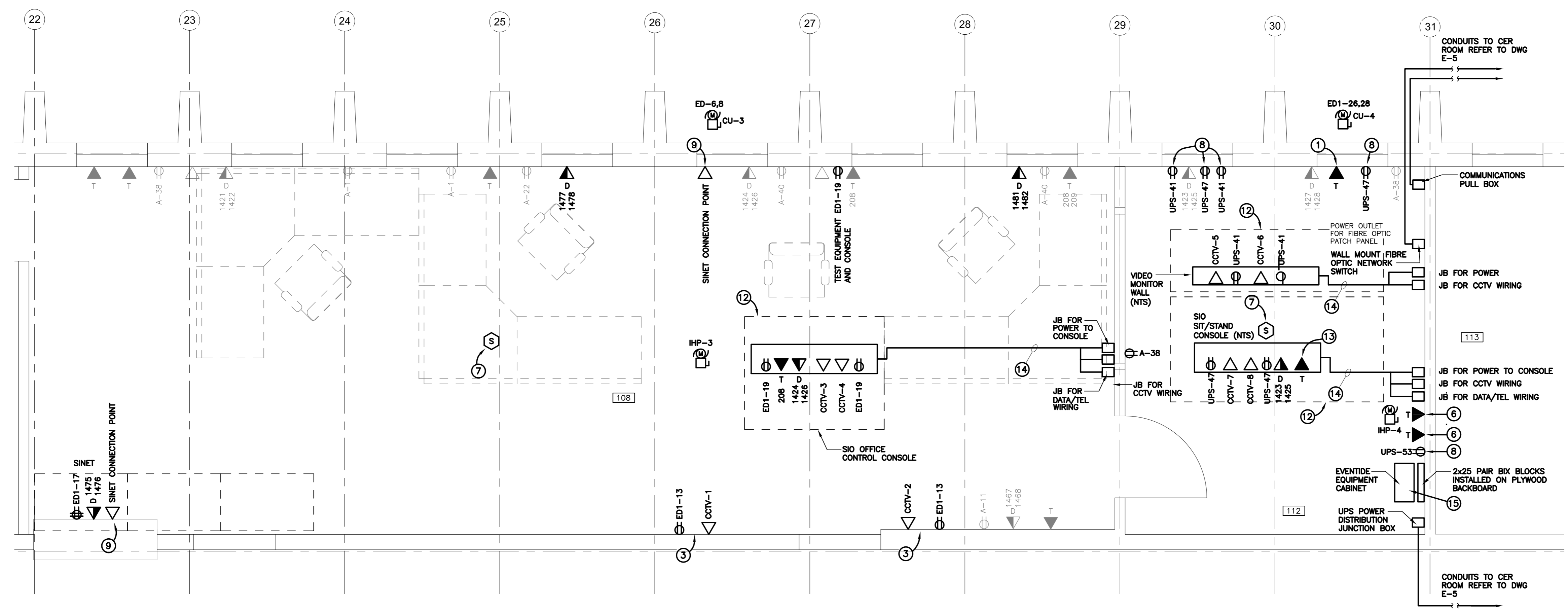
Project title/Titre du projet  
**33344 KING ROAD, ABBOTSFORD, BC  
 MATSQUI INSTITUTION  
 BLDG M2A (ADMIN)  
 SIO OFFICE RELOCATION**

Consultant Approval Box Only  
 Designed by/Concept par  
**VEYSEL AYDIN**  
 Drawn by/Dessiné par  
**STEVE BANFIELD**  
 PWGSC Project Manager/Administrateur de Projets TPSGC  
**TONY TANG**  
 PWGSC Regional Manager, Architectural and Engineering Services/  
 Gestionnaire régionale, Services d'architecture et de génie, TPSGC  
**PREETIPAL PAUL**

Drawing title/Titre du dessin  
**PARTIAL FLOOR PLAN  
 POWER AND COMMUNICATIONS  
 LAYOUT**

Project No./No. du projet <b>R.084072.001</b>	Sheet/Feuille <b>E-2</b>	Revision no./ La Révision no. <b>2</b>
--	-----------------------------	--





**PARTIAL - NEW FLOOR PLAN - POWER & COMMUNICATION LAYOUT**  
SCALE 1:25

**DRAWING NOTES**

1. PROVIDE NEW DATA TELEPHONE OUTLETS AS INDICATED. DATA CABLES SHALL BE HOME RUN TO THE IT CABINET IN MECHANICAL/ELECTRICAL ROOM #127 AND TELEPHONE CABLES TO THE EXISTING TERMINATION PANELS IN CER ROOM #136
2. EXISTING SMOKE DETECTOR SHALL REMAIN. PROTECT AGAINST DUST AND MECHANICAL DAMAGE DURING CONSTRUCTION.
3. CCTV MONITORS SHALL BE WIRED TO THE KVM SWITCHES WITH VIDEO CABLES (HDMI/DVI) AS INDICATED ON DRAWINGS. COORDINATE EXACT LOCATIONS OF THE CCTV MONITORS AND CONNECTION POINTS WITH DEPARTMENT REPRESENTATIVE. REFER TO SCHEMATIC CCTV WIRING DIAGRAM ON DRAWING E-6.
4. REMOVE EXISTING POWER AND COMM. OUTLETS, CONDUITS AND WIRING BACK TO SOURCE (OR NEAREST AVAILABLE JUNCTION BOX) WHERE INDICATED.
5. WIRED FIXED POINT CALL STATIONS SHALL BE REMOVED BY OTHERS. COORDINATE WITH DEPARTMENT REPRESENTATIVE. PROVIDE BLANK COVER PLATES ON THE OUTLET BOXES.
6. PROVIDE NEW TELEPHONE OUTLETS CONNECTED TO BIX BLOCKS INSTALLED ON PLYWOOD BOARD FOR INMATE TELEPHONE SYSTEM (ITS) AND V&C SYSTEM. RUN TWO CAT.6 TELEPHONE CABLES FROM EACH OUTLET TO ITS' TERMINATION POINTS. ONE OUTLET SHALL BE USED FOR THE EVENTIDE WORKSTATION AND THE OTHER ONE SHALL BE USED FOR BELL CANADA WORKSTATION AND MODEM. CARTEL SYSTEMS TO PERFORM FINAL TERMINATIONS AND RELOCATION OF EXISTING PC AND MODEM.
7. ADD NEW ADDRESSABLE SMOKE DETECTORS IN THE ROOMS AS INDICATED. NEW DETECTORS TO MATCH EXISTING FIRE ALARM SYSTEM. CONNECT NEW SMOKE DETECTORS TO THE EXISTING ZONE AVAILABLE IN ROOM #104. PROVIDE PARTIAL VERIFICATION OF FIRE ALARM SYSTEM AND SUBMIT ORIGINAL COPY OF THE VERIFICATION REPORT TO DEPARTMENTAL REPRESENTATIVE. TYPE AND MANUFACTURER OF EXISTING FIRE ALARM SYSTEM IS GENERAL ELECTRIC - EST3. ALL FIRE ALARM SYSTEM INSTALLATIONS AND VERIFICATION SHALL BE IN ACCORDANCE WITH ULC STANDARDS (ULC-5524; ULC5537)
8. PROVIDE NEW CIRCUITS FOR IDENTIFIED POWER OUTLETS FROM EXISTING UPS DISTRIBUTION PANEL BOARD LOCATED IN CER ROOM. REFER TO PANEL SCHEDULE ON DRAWING E-1.
9. PROVIDE DATA OUTLETS ONE AT SINET LOCATION AND ONE AT WORKSTATION AS SHOWN. RUN CONDUITS WITH A NEW CAT 6 CABLE BETWEEN THE TWO OUTLETS c/w RJ-45 FEMALE JACKS. PROVIDE 2 EXTRA PATCH CORDS (2m LONG AND 3m LONG).
10. PROVIDE NEW ETHERNET ROUTING SWITCH (WITHIN THE EXISTING WALL MOUNT COMMUNICATION CABINET). c/w FIBRE MODULE.
11. PROVIDE 55" WALL MOUNT TV AND A CAMERA FOR TELECONFERENCE.
12. PROVIDE MODULAR PRE-ENGINEERED CONTROL CONSOLES IN ROOMS #108 AND #112 AND A MODULAR VIDEO MONITOR WALL IN ROOM #112.
13. REFER TO SPECIFICATION / SECTION 26 05 00/ SECTION 1.5 FOR DATA/TEL CABLING, TERMINATION AND TESTING..
14. PROVIDE FLEXIBLE CONDUITS ON THE FLOOR TO EXTEND POWER, DATA/TEL AND CCTV WIRING FROM WALL MOUNT JUNCTION BOXES TO THE JUNCTION BOXES AND OUTLETS ON THE CONSOLES.
15. RELOCATE THE EXISTING EVENTIDE AUDIO RECORDING EQUIPMENT c/w CABINET FROM EXISTING SIO OFFICE TO ROOM #112 IN BUILDING M2g. PROVIDE 2x25 PAIR BIX BLOCKS INSTALLED ON A RATED PLYWOOD BACKBOARD (1000mm x 700mm x 15mm) ON THE WALL. RUN 2x25 PAIR TELEPHONE CABLES FROM BIX BLOCKS TO THE TERMINATION PANEL IN CER ROOM #136 (25 PAIR FOR ITS AND 25 PAIR FOR V&C). USE TWO PAIRS OF ONE OF THE 25 PAIR TELEPHONE CABLES FOR BELL CANADA'S COMPUTER AND MODEM. TERMINATE ALL TELEPHONE CABLES ON BOTH ENDS AND COMPLETE TESTS. CROSS CONNECTIONS AND FINAL CONFIGURATION SHALL BE PERFORMED BY CARTEL AND BELL CANADA ACCORDINGLY.

Revision/	Description/Description	Date/Date
2	RE-ISSUED FOR TENDER	13/01/2017
1	ISSUED FOR TENDER	21/12/2016
0	ISSUED FOR 50% REVIEW	21/10/2016

Client/client

**CORRECTIONAL SERVICE CANADA**

Project title/Titre du projet

33344 KING ROAD, ABBOTSFORD, BC  
**MATSQUI INSTITUTION BLDG M2A (ADMIN) SIO OFFICE RELOCATION**

Consultant Approval Box Only

Designed by/Concept par  
**VEYSEL AYDIN**

Drawn by/Dessiné par  
**STEVE BANFIELD**

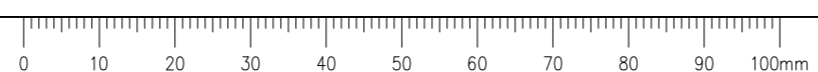
PWGSC Project Manager/Administrateur de Projets TPSGC  
**TONY TANG**

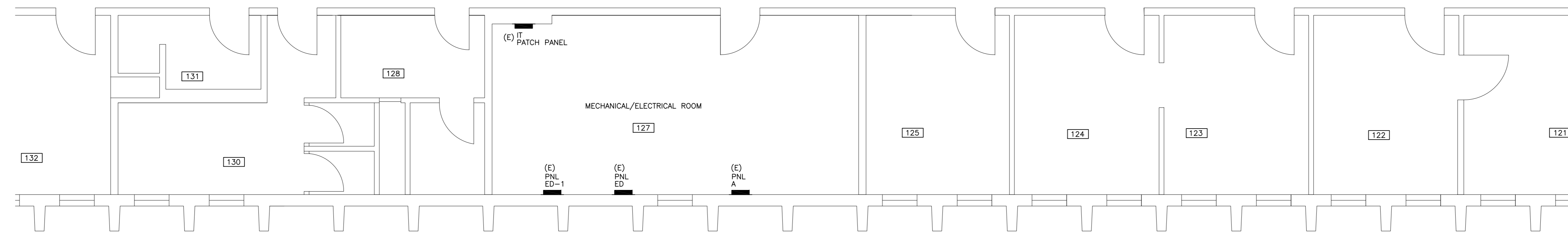
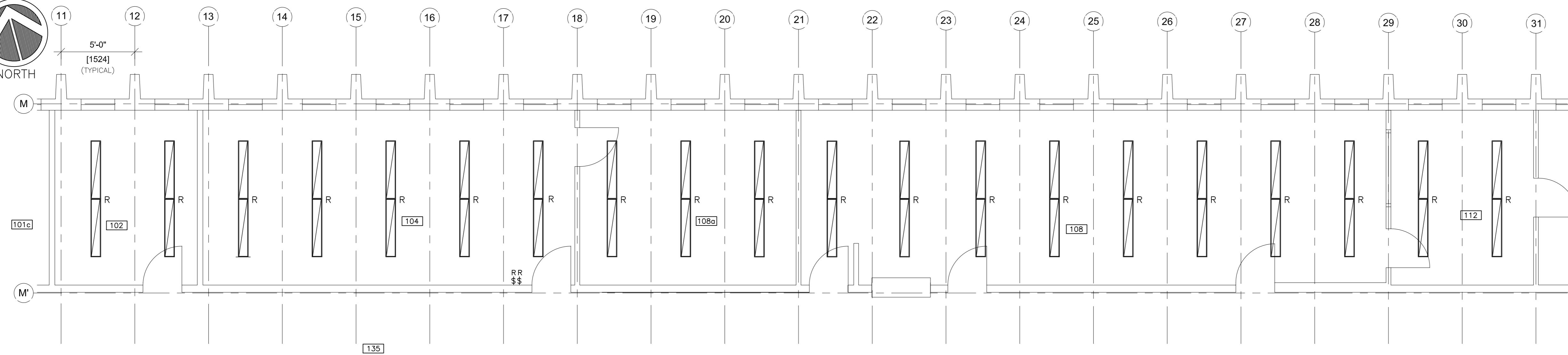
PWGSC Regional Manager, Architectural and Engineering Services/  
Gestionnaire régionale, Services d'architecture et de génie, TPSGC  
**FREETIPAL PAUL**

Drawing title/Titre du dessin

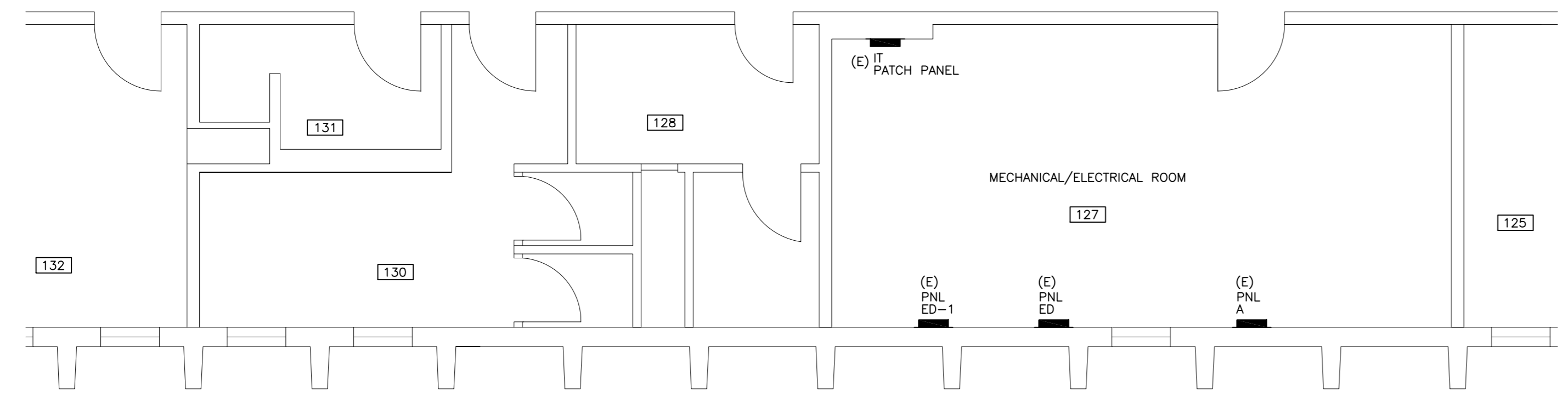
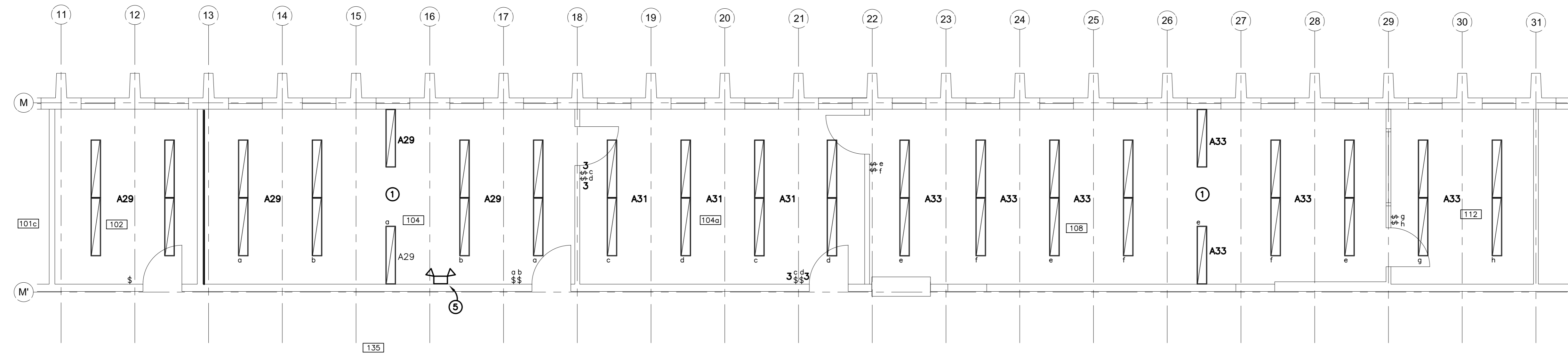
**PARTIAL FLOOR PLAN POWER AND COMMUNICATIONS LAYOUT**

Project No./No. du projet <b>R.084072.001</b>	Sheet/Feuille <b>E-3</b>	Revision no./ La Révision no. <b>2</b>
--	-----------------------------	--





**PARTIAL - EXISTING FLOOR PLAN - LIGHTING LAYOUT**  
 SCALE 1:50



**PARTIAL - NEW FLOOR PLAN - LIGHTING LAYOUT**  
 SCALE 1:50

- DRAWING NOTES**
- INDOOR HEAT PUMPS SHALL BE INSTALLED IN THE CENTRE OF THE CEILING, COORDINATE AND ADJUST LIGHTING FIXTURES ACCORDINGLY.
  - INSTALL LIGHTING FIXTURES ON THE ACOUSTICAL CEILING TILES AND FASTEN TO THE CONCRETE CEILING.
  - REMOVE ALL EXISTING LIGHTING FIXTURES AND PROVIDE NEW LED LIGHTING FIXTURES AS INDICATED. DISPOSE REMOVED LIGHTING FIXTURES OFF SITE.
  - REMOVE EXISTING LIGHTING SWITCHES AND CIRCUITS BACK TO SOURCE (OR NEAREST JUNCTION BOX) AND MAKE THEM SAFE. PROVIDE NEW SURFACE MOUNT SWITCHES AND NEW CIRCUITING AS INDICATED.
  - PROVIDE UNIT EQUIPMENT (EMERGENCY BATTERY PACK) c/w DUAL HEAD LIGHTS. CONNECT UNIT EQUIPMENT TO THE LIGHTING CIRCUIT (BEFORE THE SWITCH) IN THE ROOM WHERE INSTALLED.

Revision/	Description/Description	Date/Date
2	RE-ISSUED FOR TENDER	13/01/2017
1	ISSUED FOR TENDER	21/12/2016
0	ISSUED FOR 50% REVIEW	21/10/2016

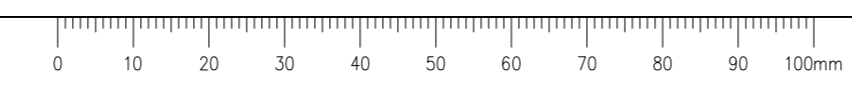
Client/client  
**CORRECTIONAL SERVICE CANADA**

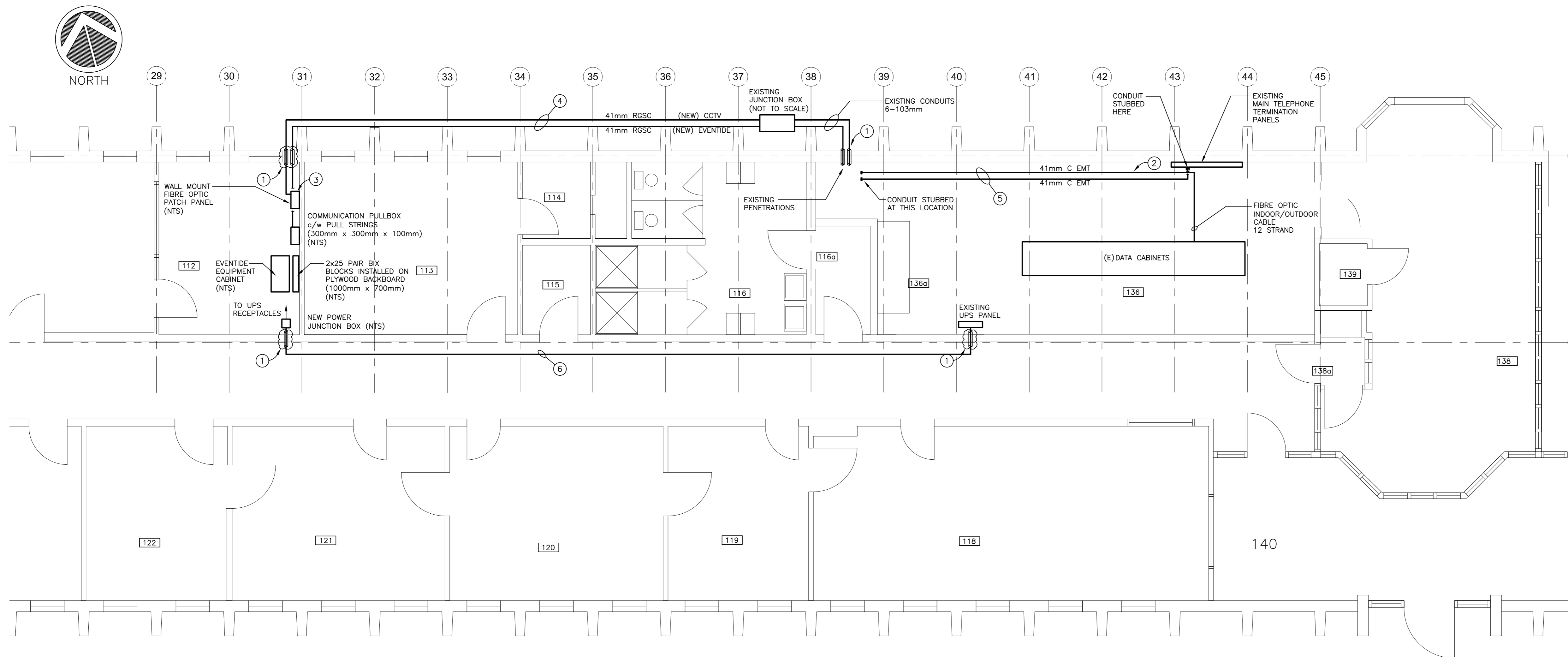
Project title/Titre du projet  
**33344 KING ROAD, ABBOTSFORD, BC  
 MATSQUI INSTITUTION  
 BLDG M2A (ADMIN)  
 SIO OFFICE RELOCATION**

Consultant Approval Box Only  
 Designed by/Concept par  
**VEYSEL AYDIN**  
 Drawn by/Dessiné par  
**STEVE BANFIELD**  
 PWGSC Project Manager/Administrateur de Projets TPSGC  
**TONY TANG**  
 PWGSC Regional Manager, Architectural and Engineering Services/  
 Gestionnaire régionale, Services d'architecture et de génie, TPSGC  
**PREETIPAL PAUL**

Drawing title/Titre du dessin  
**PARTIAL FLOOR PLAN  
 LIGHTING LAYOUT**

Project No./No. du projet <b>R.084072.001</b>	Sheet/Feuille <b>E-4</b>	Revision no./ La Révision no. <b>2</b>
--	-----------------------------	--





**PARTIAL - NEW FLOOR PLAN - FIBRE OPTIC CABLING**  
 SCALE 1:50

**DRAWING NOTES**

1. PROVIDE NEW CONDUIT PENETRATIONS ON THE INTERIOR AND EXTERIOR WALLS AS INDICATED. USE EXISTING CONDUIT PENETRATIONS AND SEAL INSIDE/OUTSIDE OF ALL EXISTING AND NEW PENETRATIONS WITH FIRE RATED COMPOUND UPON COMPLETION OF INSTALLATION. TOTAL OF 6-103mm EXISTING CONDUITS AS SHOWN ON THE PHOTOGRAPHS.
2. PROVIDE 12 STRAND FIBRE OPTIC INDOOR/OUTDOOR CABLE FROM CER ROOM TO A NEW WALL MOUNT FIBRE PATCH PANEL IN ROOM 112 AS INDICATED. TERMINATE CABLE TO PATCH PANELS ON BOTH ENDS.
3. PROVIDE NEW WALL MOUNT FIBRE OPTIC CABINET WITH PATCH PANEL AND NETWORK SWITCH. INSTALL AT THE LOCATION AS DIRECTED BY DEPARTMENT REPRESENTATIVE.
4. PROVIDE NEW RGS (RIGID GALVANIZED STEEL) CONDUITS c/w UNI-STRUTS ON THE EXTERIOR WALLS AS INDICATED. EXISTING UNI-STRUTS MAY BE USED WHERE AVAILABLE.
5. PROVIDE NEW EMT CONDUITS WITHIN THE CER ROOM AS INDICATED. DATA/TEL AND SECURITY CABLES SHALL BE RUN IN SEPARATE CONDUITS.
6. PROVIDE 27mm EMT CONDUITS (THROUGH THE CORRIDOR CEILING SPACE) c/w WIRING FOR UPS POWER OUTLETS IN ROOM #112. DO NOT SHARE ANY NEUTRALS BETWEEN THE INDIVIDUAL CIRCUITS.



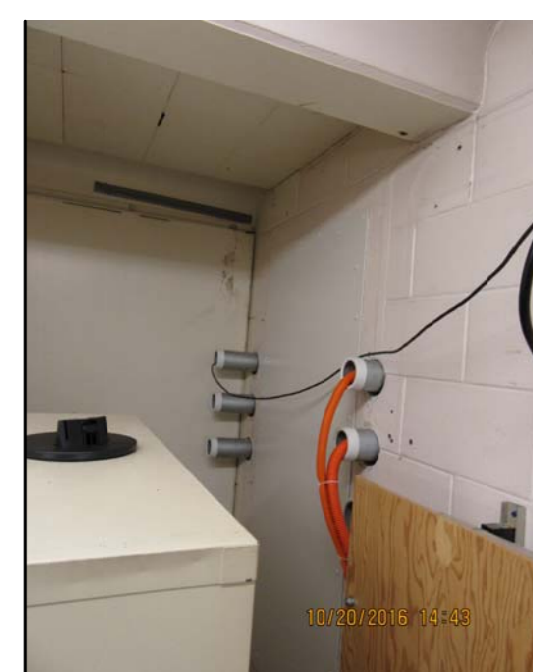
**(PHOTO 3) EXISTING EXTERIOR JUNCTION BOX & CONDUITS**  
 SCALE NTS



**(PHOTO 4) TYPICAL STANDARD DATA OUTLET**  
 SCALE NTS



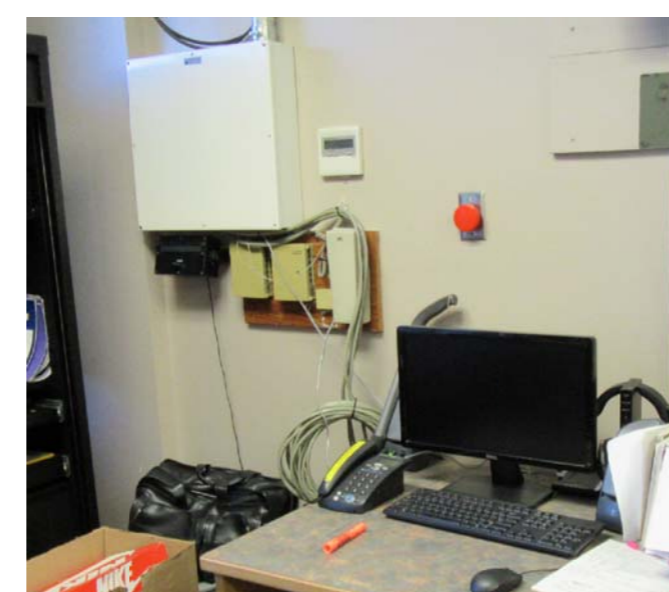
**(PHOTO 7) UPS MONITOR DISPLAY**  
 SCALE NTS



**(PHOTO 1) CONDUITS (CER ROOM)**  
 SCALE NTS



**(PHOTO 2) CONDUITS (CER ROOM)**  
 SCALE NTS



**(PHOTO 5) EXISTING OFFICE TELEPHONE EQUIPMENT TO BE REMOVED**  
 SCALE NTS



**(PHOTO 6) TELEPHONE DEMARCATION**  
 SCALE NTS



**(PHOTO 8) OUTLETS**  
 SCALE NTS

Revision/Revisão	Description/Description	Date/Date
2	RE-ISSUED FOR TENDER	13/01/2017
1	ISSUED FOR TENDER	21/12/2016
0	ISSUED FOR 50% REVIEW	21/10/2016

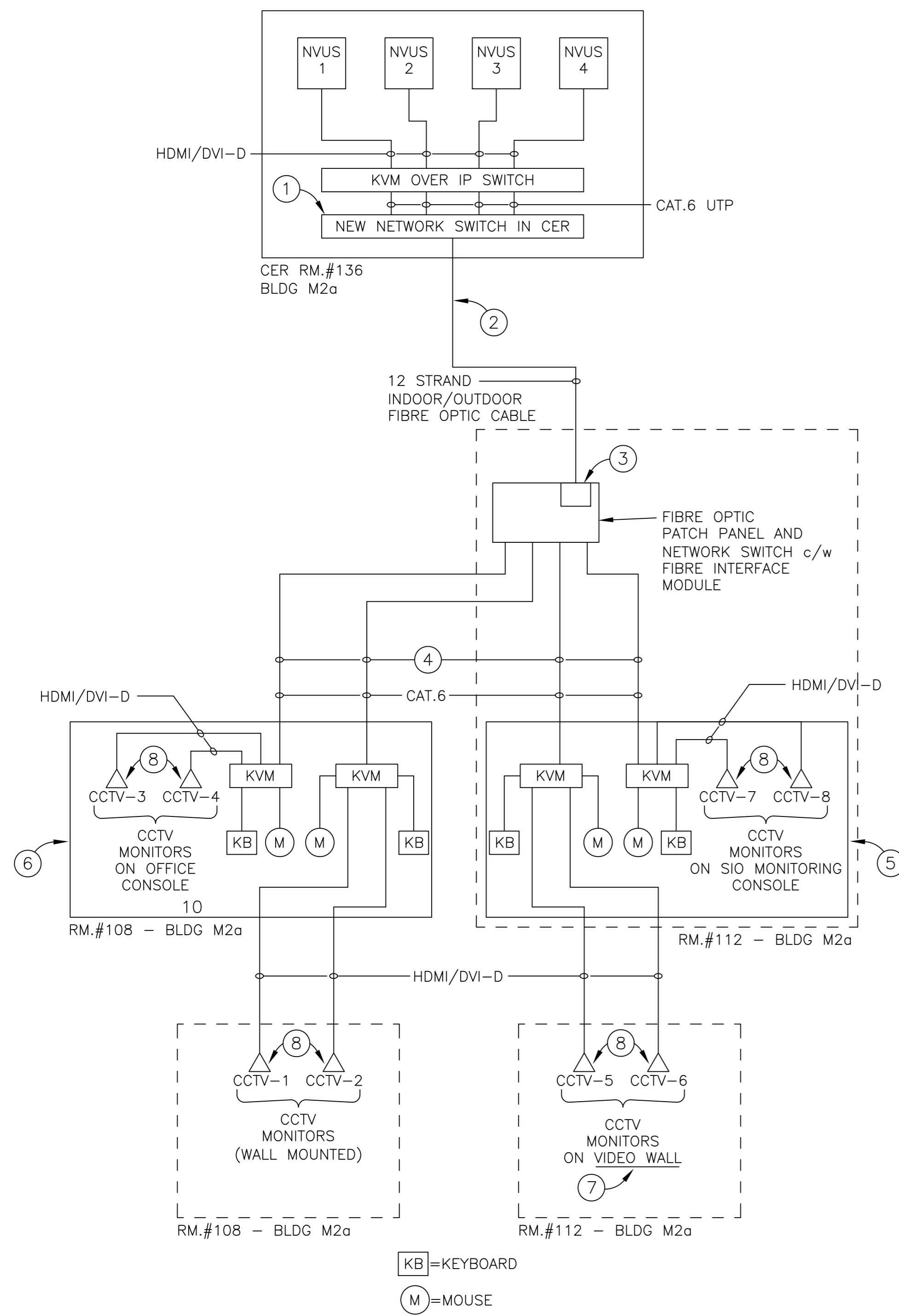
Client/client  
**CORRECTIONAL SERVICE CANADA**

Project title/Titre du projet  
**33344 KING ROAD, ABBOTSFORD, BC  
 MATSQUI INSTITUTION  
 BLDG M2A (ADMIN)  
 SIO OFFICE RELOCATION**

Consultant Approval Box Only  
 Designed by/Concept par  
**VEYSEL AYDIN**  
 Drawn by/Dessiné par  
**STEVE BANFIELD**  
 PWGSC Project Manager/Administrateur de Projets TPSGC  
**TONY TANG**  
 PWGSC, Regional Manager, Architectural and Engineering Services/  
 Gestionnaire régionale, Services d'architecture et de génie, TPSGC  
**PREETIPAL PAUL**

Drawing title/Titre du dessin  
**PARTIAL FLOOR PLAN  
 FIBRE OPTIC CABLING**

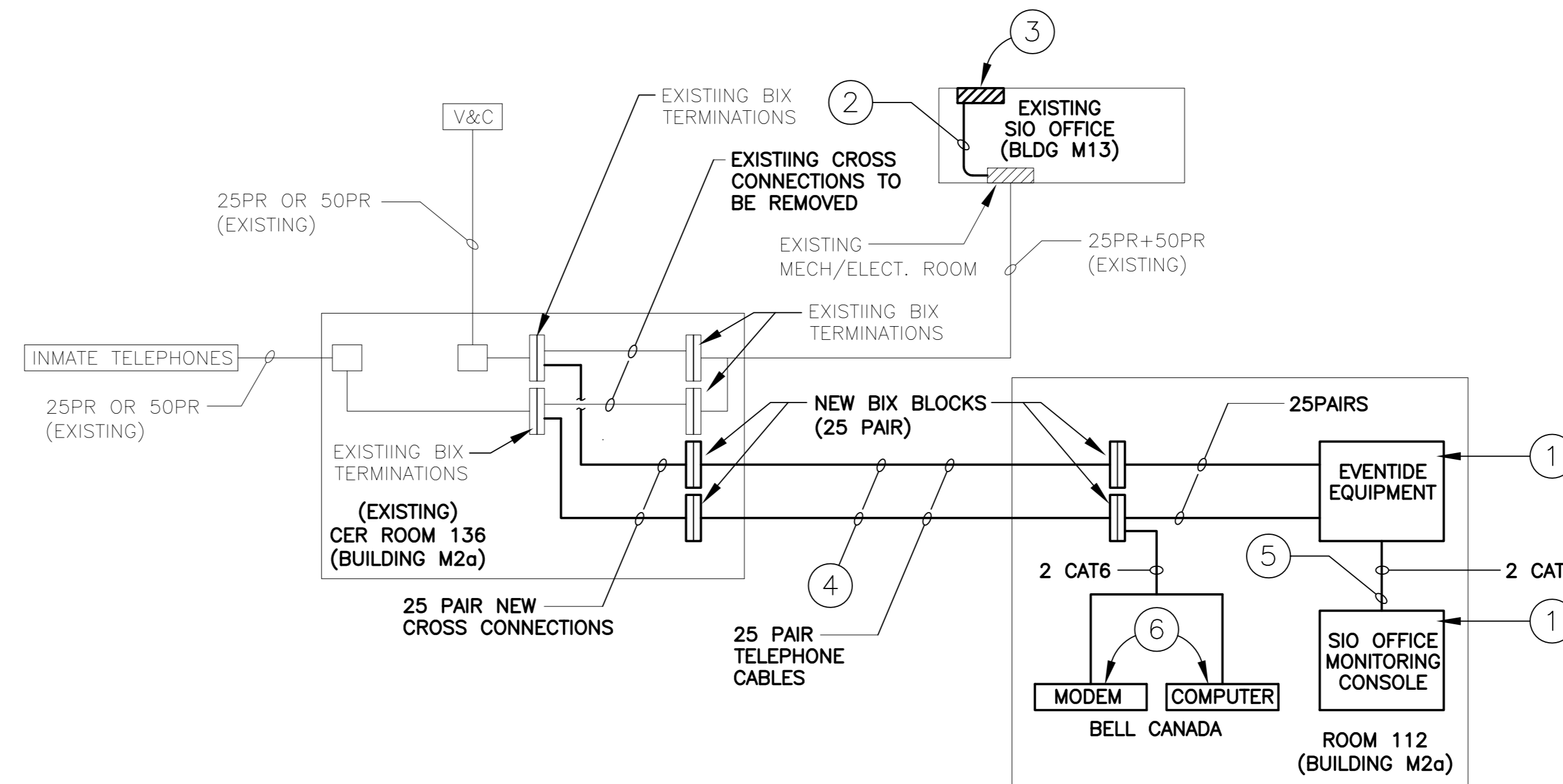
Project No./No. du projet <b>R.084072.001</b>	Sheet/Feuille <b>E-5</b>	Revision no./ La Révision no. <b>2</b>
--	-----------------------------	--



**CCTV SCHEMATIC WIRING DIAGRAM - INDICATIVE DESIGN**  
 SCALE NTS

**FOR CCTV SECURITY MONITORING SYSTEM:**

- 1- PROVIDE FIBRE OPTIC NETWORK SWITCH C/W PATCH PANEL & PORTS AND FIBRE OPTIC TRANSCEIVER MODULE C/W KEYBOARD VIDEO MOUSE (KVM) SWITCH OVER IP WITHIN THE EXISTING IT CABINET IN CER ROOM. REPLACE EXISTING NETWORK SWITCH WITH NEW NETWORK SWITCH. CONNECT NEW NETWORK VIDEO USER STATIONS (NVUS) THROUGH ONE (OR MULTIPLE) KVM SWITCHES OVER IP TO THE NEW NETWORK SWITCH. EXACT CABINET NUMBER IN CER ROOM SHALL BE CONFIRMED ON SITE.
- 2- PROVIDE 12 STRAND FIBRE OPTIC CABLE FROM THE NEW CCTV FIBRE NETWORK SWITCH IN CER ROOM TO THE WALL MOUNT FIBER OPTIC PATCH PANEL IN SIO OFFICE, ROOM # 112. TERMINATE BOTH ENDS OF THE FIBER OPTIC CABLE ON THE FIBER PATCH PANELS AND NETWORK SWITCHES (ONE IN SIO OFFICE-ROOM# 112 AND THE OTHER ONE IN CER ROOM). COORDINATE WITH DEPARTMENT REPRESENTATIVE FOR FINAL CONFIGURATIONS.
- 3- PROVIDE A WALL MOUNT FIBER OPTIC CABINET C/W FIBER OPTIC NETWORK SWITCH, PATCH PANEL & PORTS AND FIBRE OPTIC TRANSCEIVER MODULE IN ROOM # 112.
- 4- RUN CAT.6 UTP CABLES FROM THE FIBER OPTIC NETWORK SWITCH IN ROOM # 112 TO THE KVM SWITCHES IN ROOMS # 108 AND # 112 AS INDICATED ON THE WIRING DIAGRAM.
- 5- PROVIDE SIT / STAND CONSOLE IN ROOM # 112.
- 6- PROVIDE OFFICE CONSOLE IN ROOM # 108.
- 7- PROVIDE A STANDALONE VIDEO WALL IN ROOM # 112.
- 8- PROVIDE INDUSTRIAL LED DISPLAY MONITORS AS FOLLOWS:  
 ROOM # 108:  
 - 2 X 60" CCTV MONITORS INSTALLED ON VERTICALLY TILT ABLE WALL MOUNTS.  
 - 2 X 24" CCTV MONITORS INSTALLED ON THE CONTROL CONSOLE.  
 ROOM # 112:  
 - 2 X 42" CCTV MONITORS INSTALLED ON VIDEO WALL.  
 - 2 X 24" CCTV MONITORS INSTALLED ON THE SIT / STAND CONSOLE.



**INMATE TELEPHONE SYSTEM CABLE BLOCK DIAGRAM**  
 SCALE NTS

**INMATE TELEPHONE SYSTEM (ITS):**

- 1- RELOCATE EXISTING AUDIO RECORDING SYSTEM (EVENTIDE) c/w LOGGER, COMPUTER AND MODEM FROM EXISTING SIO OFFICE IN BUILDING M13 TO ROOM #112 IN BUILDING M2A. (THIS WORK SHALL BE PERFORMED BY CARTEL COMMUNICATION SYSTEMS INC.)
- 2- REMOVE AND DISPOSE OF THE EXISTING 25PR + 50PR TELEPHONE CABLES BETWEEN EXISTING SIO OFFICE AND TELEPHONE PATCH PANEL LOCATED IN MECHANICAL/ELECTRICAL ROOM IN BUILDING M13.
- 3- REMOVE AND DISPOSE OF ALL EXISTING WALL MOUNTED TELEPHONE EQUIPMENT IN EXISTING SIO OFFICE. DISCUSS WITH DEPARTMENT REPRESENTATIVE.
- 4- PROVIDE 2x25 PAIR TELEPHONE CABLES (WITH BIX BLOCKS ON BOTH ENDS) FROM TERMINATION PANELS IN CER ROOM TO THE BIX BLOCKS FOR RELOCATED EVENTIDE EQUIPMENT IN ROOM #112. TERMINATE CABLES ON BIX BLOCKS (BOTH ENDS) AND PERFORM TESTS PER SPECIFICATIONS. CROSS CONNECTIONS AND FINAL CONFIGURATIONS SHALL BE PERFORMED BY CARTEL AND BELL CANADA ACCORDINGLY.
- 5- PROVIDE TWO CAT. 6 TELEPHONE CABLES FROM EVENTIDE EQUIPMENT IN ROOM #112 TO THE EVENTIDE CPU MONITOR ON SIO MONITORING CONSOLE IN ROOM # 112 IN BUILDING M2a.
- 6- RELOCATE EXISTING BELL CANADA COMPUTER AND MODEM TO THE NEW EQUIPMENT ROOM # 112. PROVIDE TWO CAT 6 CABLES FROM INMATE TELEPHONE SYSTEM TO BELL CANADA COMPUTER AND MODEM LOCATED IN ROOM # 112.

**GENERAL NOTES:**

- 1- PROVIDE NEW (TOTAL OF FOUR) NETWORK VIDEO USER STATIONS (NVUS) INSTALLED IN THE CABINETS IN CER ROOM # 136 . PROVIDE KEYBOARD-VIDEO-MOUSE (KVM) OVER IP CONNECTIONS BETWEEN KVM SWITCHES AND NETWORK SWITCHES AND TO THE CCTV MONITORS LOCATED IN THE ROOMS # 108 AND #112 (CONTRACTOR TO CONFIRM TYPE AND NUMBER OF CABLES WITH THE SUPPLIER OF SYSTEM).
- 2- PROVIDE NECESSARY SOFTWARE PACKAGE FOR ENABLING ONE USER TO CONTROL TWO NVUS SYSTEM AT THE OFFICE CONSOLE AND SIT/STAND MONITORING CONSOLE AS INDICATED IN THE SPECIFICATIONS / SECTION 26 05 00.

Revision/Revision	Description/Description	Date/Date
2	RE-ISSUED FOR TENDER	13/01/2017
1	ISSUED FOR TENDER	21/12/2016
0	ISSUED FOR 50% REVIEW	21/10/2016

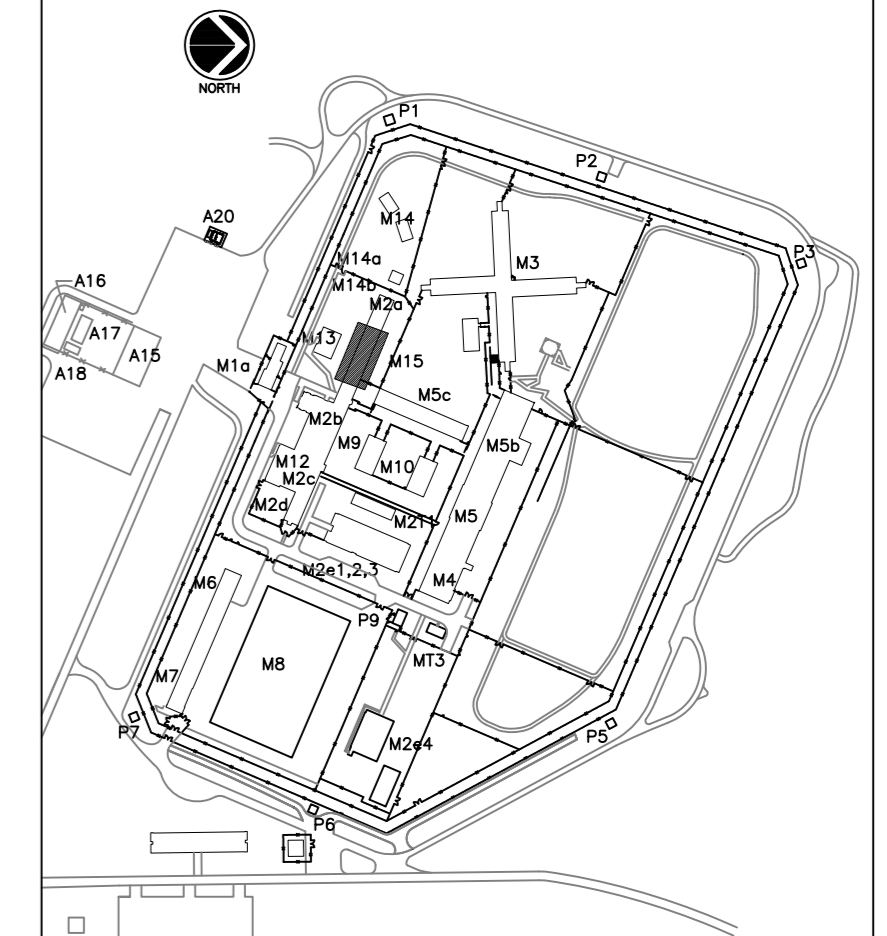
Client/client  
**CORRECTIONAL SERVICE CANADA**

Project title/Titre du projet  
**33344 KING ROAD, ABBOTSFORD, BC**  
**MATSQUI INSTITUTION**  
**BLDG M2A (ADMIN)**  
**SIO OFFICE RELOCATION**

Consultant Approval Box Only  
 Designed by/Concept par  
**VEYSEL AYDIN**  
 Drawn by/Dessiné par  
**STEVE BANFIELD**  
 PWGSC Project Manager/Administrateur de Projets TPSGC  
**TONY TANG**  
 PWGSC, Regional Manager, Architectural and Engineering Services/  
 Gestionnaire régionale, Services d'architecture et de génie, TPSGC  
**PREETIPAL PAUL**

Drawing title/Titre du dessin  
**PARTIAL FLOOR PLAN**  
**SECURITY WIRING DIAGRAMS**

Project No./No. du projet <b>R.084072.001</b>	Sheet/Feuille <b>E-6</b>	Revision no./ La Révision no. <b>2</b>
--	-----------------------------	---



LOCATION PLAN NTS

FOR REFERENCE ONLY

Revision/Revisão	Description/Description	Date/Date
2	RE-ISSUED FOR TENDER	13/01/2017
1	ISSUED FOR TENDER	21/12/2016
0	ISSUED FOR 50% REVIEW	21/10/2016

Client/client

**CORRECTIONAL SERVICE CANADA**

Project title/Titre du projet

33344 KING ROAD, ABBOTSFORD, BC  
**MATSQUI INSTITUTION BLDG M2A (ADMIN)**  
**SIO OFFICE RELOCATION**

Consultant Approval Box Only

Designed by/Concept par  
**VEYSEL AYDIN**

Drawn by/Dessiné par  
**STEVE BANFIELD**

PWGCSC Project Manager/Administrateur de Projets TPSGC  
**TONY TANG**

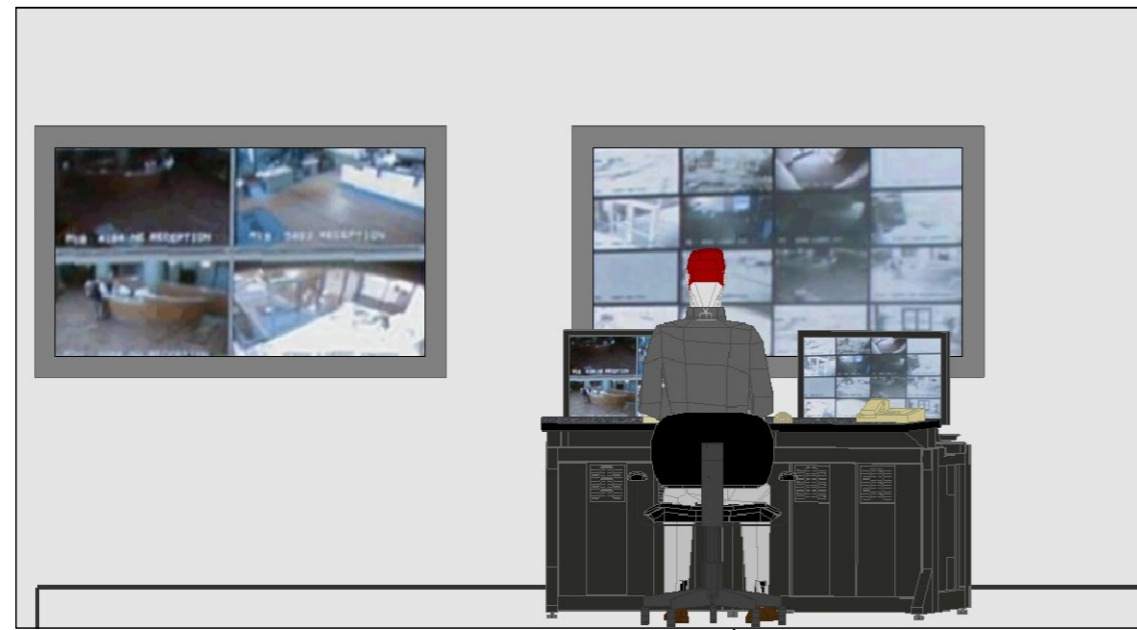
PWGCSC Regional Manager, Architectural and Engineering Services/  
Gestionnaire régionale, Services d'architecture et de génie, TPSGC  
**PREETIPAL PAUL**

Drawing title/Titre du dessin

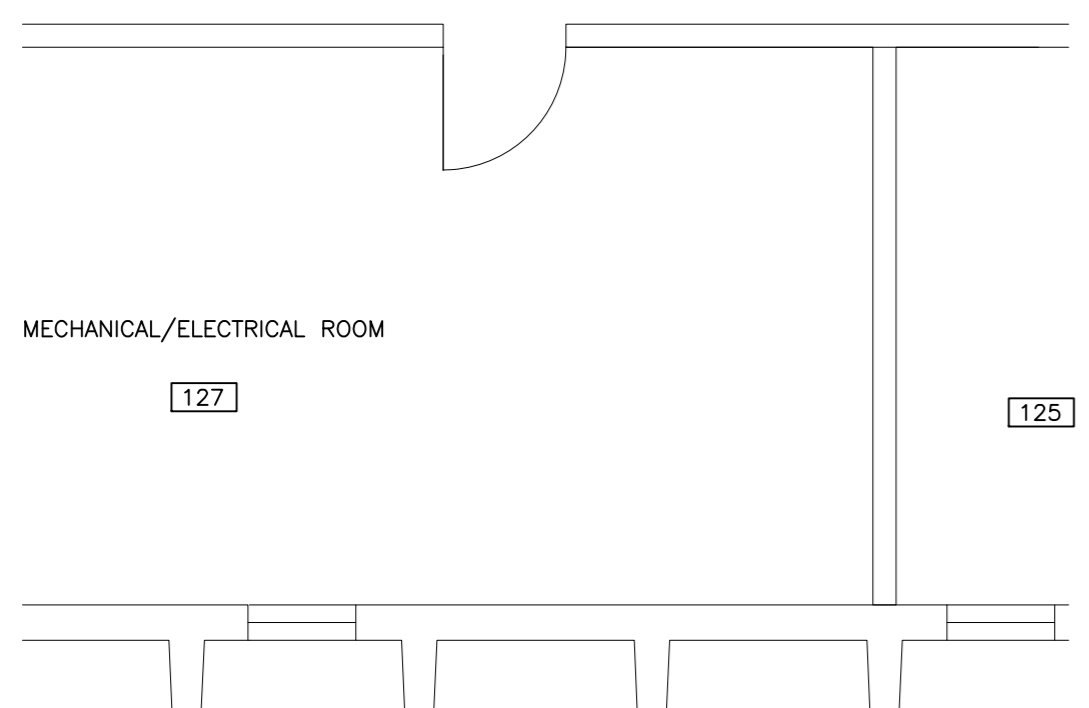
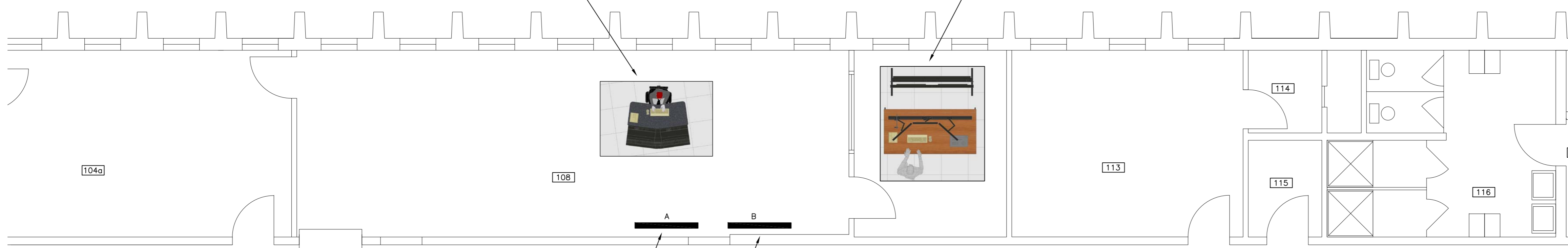
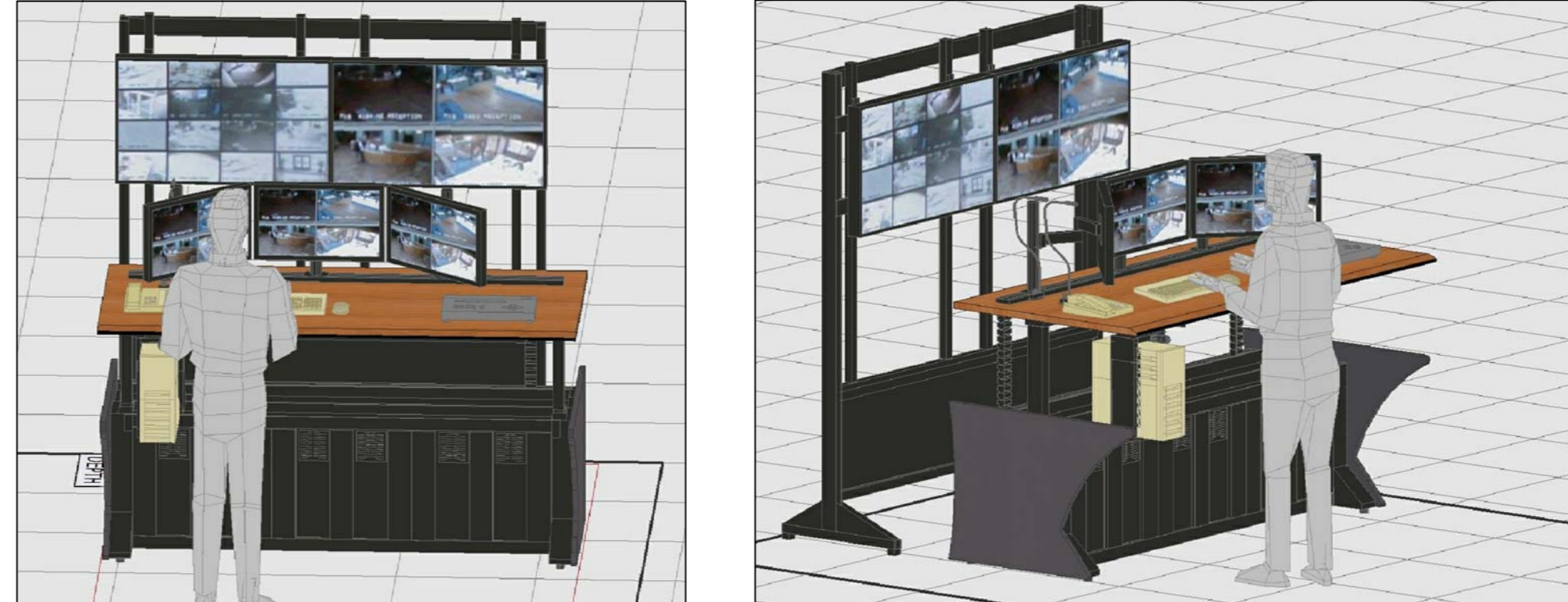
**PARTIAL FLOOR PLAN  
SECURITY CONTROL CONSOLES  
AND CCTV MONITORS**

Project No./No. du projet <b>R.084072.001</b>	Sheet/Feuille <b>E-7</b>	Revision no./La Révision no. <b>2</b>
--	-----------------------------	--

SIO MONITORING OFFICE CONSOLE IN ROOM 108. THE CONSOLE SHALL BE STRAIGHT (NOT CURVED)



SIO MONITORING (SIT/STAND) CONSOLE WITH VIDEO WALL MONITORS IN ROOM #112



**SIO MONITORING & CONSOLE DRAWING & PHOTOGRAPHS**  
NOT TO SCALE

- SIO MONITORING CONSOLE**
1. CONSOLE SIT STAND
  2. TWO CCTV MONITORS
  3. TWO CCTV MONITORS
  4. VIDEO WALL
  5. ONE EVENTIDE CPU REMOTE MONITOR
  6. V&C AUDIO SYSTEM
- OFFICE CONSOLE**
1. CONSOLE
  2. TWO MONITORS
  3. TWO WALL MOUNTED MONITORS

**THIS IS A REFERENCE DRAWING TO SHOW THE GENERAL CONFIGURATION OF THE CONSOLES**