DEPARTMENT OF NATIONAL DEFENCE

REAL PROPERTY OPERATIONS UNIT ONTARIO
DETACHMENT TRENTON
8 WING, CFB TRENTON, ONTARIO

HANGAR 6 FIT-UP
FOR
SQUADRON OFFICES

THIS DOCUMENT CONTAINS A SECURITY REQUIREMENT /
DOCUMENT CONTIENT DES EXIGNECES RELATIVES À LA SÉCURITÉ

KEY PLAN N.T.S.

DWG. No : L-T81-3019/2-000

DATE : 2025-03-20

National Defence / Défense nationale

PROJECT FILE No : 500006755

Canada

Job No. L-T81-3019/2

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- 308 — SECOND FLOOR NEW CONSTRUCTION RCP - AREA 'A'
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KEY PLAN N.T.S.

DWG. No : **L-T81-3019/2-001**

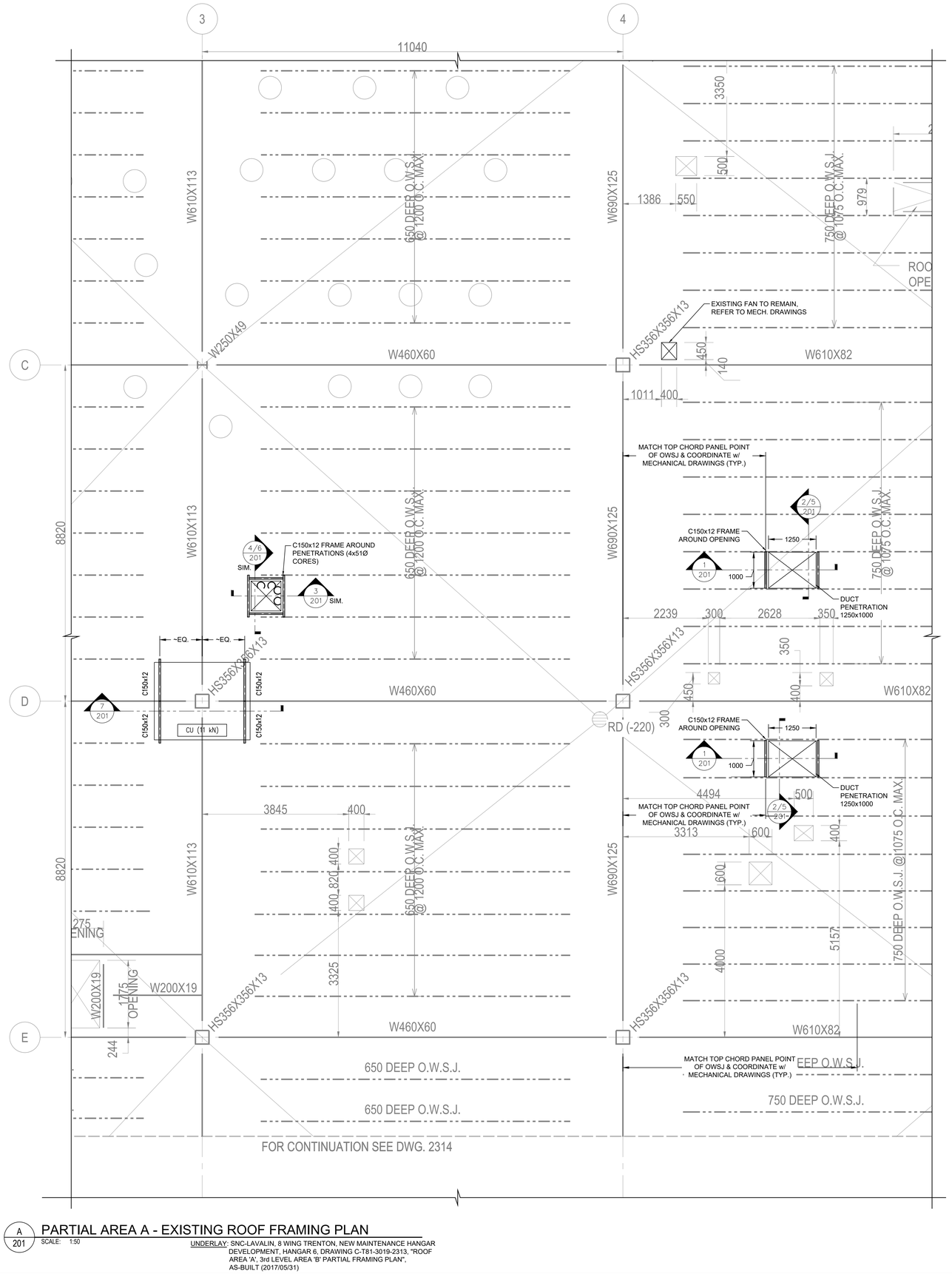
DATE : **2025-03-20**

PROJECT FILE No : **500006755**

National Defence / Défense nationale

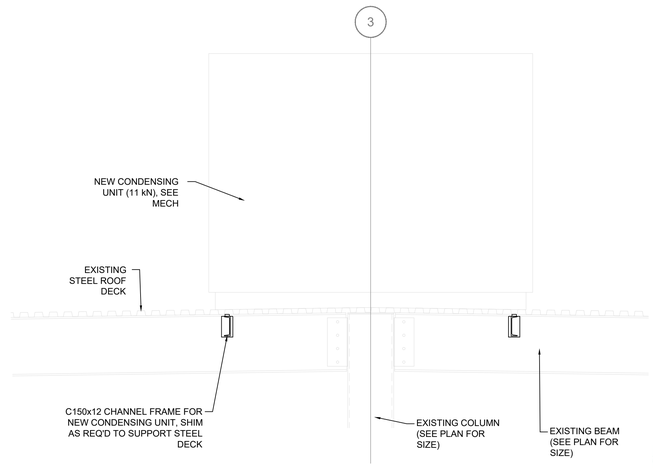
Canada

Job No. L-T81-30192

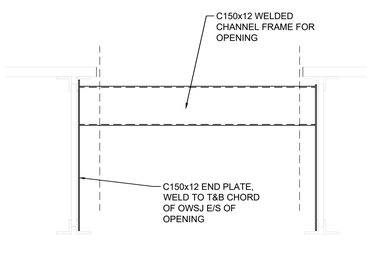


A 201 PARTIAL AREA A - EXISTING ROOF FRAMING PLAN
SCALE: 1:50

UNDERLAY: SNC-LAVALIN, 8 WING TRENTON, NEW MAINTENANCE HANGAR DEVELOPMENT, HANGAR 6, DRAWING C-T81-3019-2313, "ROOF AREA 'A', 3rd LEVEL AREA 'B' PARTIAL FRAMING PLAN", AS-BUILT (2017/05/31)



7 201 SECTION @ CONDENSING UNIT
SCALE: 1:20



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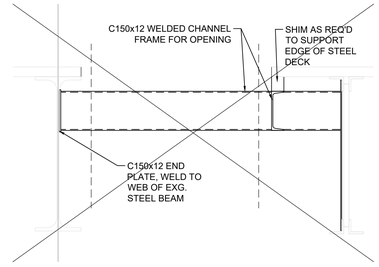

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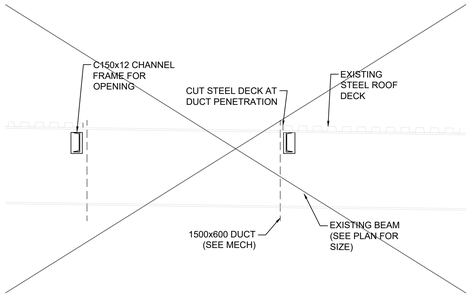

3 201 OPENING SECTION @ STEEL BEAM
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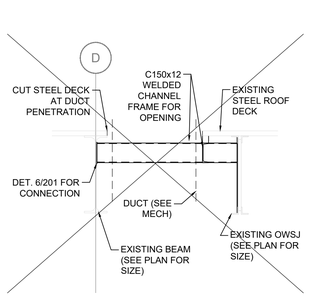
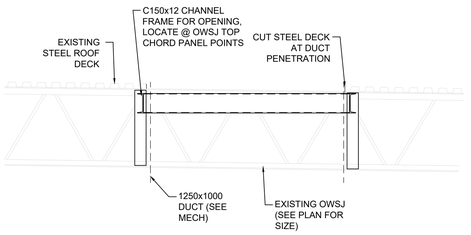
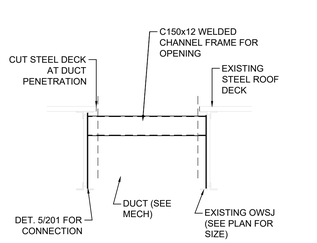


4 201 OPENING SECTION
SCALE: 1:20



1 201 OPENING SECTION @ OPEN WEB STEEL JOIST
SCALE: 1:20



2 201 OPENING SECTION
SCALE: 1:20

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LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ

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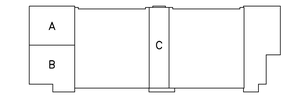
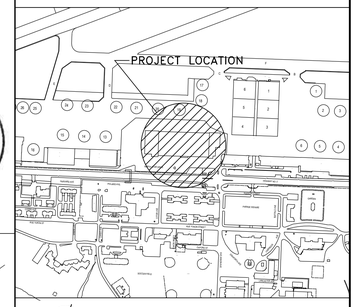


KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

GENERAL NOTES

1. DO NOT SCALE DRAWINGS.
2. CONTRACTOR IS RESPONSIBLE TO CHECK AND FIELD VERIFY ALL DIMENSIONS.
3. ALL ELECTRICAL WORK TO BE CARRIED OUT BY CERTIFIED ELECTRICIAN.
4. CONTRACTOR TO NOTIFY DESIGN CONSULTANT IMMEDIATELY OF ANY DISCREPANCIES OF DIMENSIONS, MATERIALS OR CONDITIONS.
5. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS, SPECIFICATIONS AND CONSTRUCTION DOCUMENTS.
6. UNLESS OTHERWISE INDICATED AS EXISTING, ALL MATERIALS ARE NEW AND ARE SUPPLIED AND INSTALLED AS PART OF THIS CONTRACT.
7. CONTRACTOR TO ENSURE ALL WORK AREAS IN CONTRACT ARE FREE OF DEBRIS AND LOOSE MATERIALS AT COMMENCEMENT OF WORK ONSITE AND AT ALL TIMES DURING CONSTRUCTION PERIOD. REMOVE ALL FOREIGN OBJECT DEBRIS (FOD) [SCREWS, GARBAGE, UNSECURED MATERIALS, ETC.] FROM AREA.
8. PROVIDE PROTECTION TO ALL "EXISTING TO REMAIN" MATERIALS.
9. REPAIR, PATCH AND MAKE GOOD ALL EXISTING FINISHES AND SURFACES AFFECTED BY WORK.
10. MAKE ALL EXISTING SURFACES, IN AREA OF WORK, READY TO RECEIVE NEW FINISH.
11. ALL ACCESS HATCHES ARE TO BE PROVIDED BY THE MECHANICAL/ELECTRICAL CONTRACTOR TO SUIT. PROVIDE SIZE AND LOCATIONS TO CONSULTANTS FOR REVIEW AND COORDINATION, PRIOR TO INSTALLATION.
12. SECURITY EQUIPMENT REMOVAL AND REINSTATEMENT (BY OWNER). ACCESS AND LOCATIONS TO BE COORDINATED, PRIOR TO ENCLOSING CEILINGS/WALLS.
13. ALL CORING, SAW CUTS AND PENETRATIONS THROUGH STRUCTURE TO BE SCANNED, REVIEWED & APPROVED BY LICENSED STRUCTURAL ENGINEER.

NO.	DATE	REVISION	APPR.
6	2025/03/28	ISSUED FOR TENDER	S.L.
5	2025/02/24	ISSUED FOR TENDER	S.L.
4	2020/10/07	ISSUED FOR TENDER	D.K.
3	2020/08/19	ISSUED FOR 100% SUBMISSION	D.K.
2	2020/05/19	ISSUED FOR 90% SUBMISSION	D.K.

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
STRUCTURAL	2020/01/08

SUBJECT | SUJET
ROOF FRAMING PLANS & DETAILS FOR MECHANICAL FIT-UP

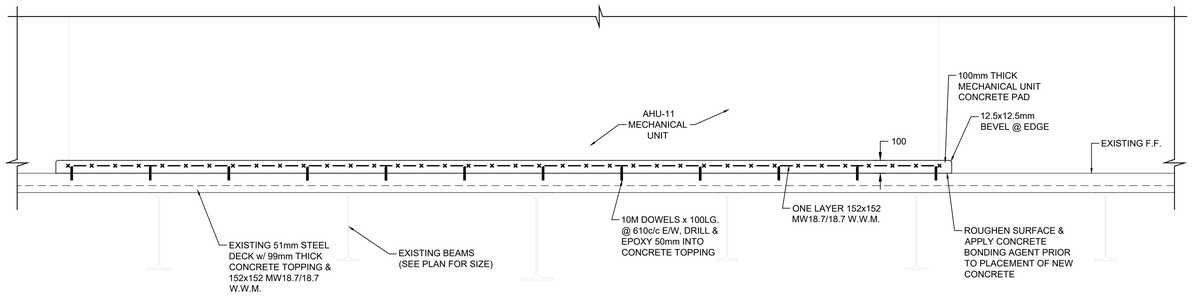
PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ	XX | XX	DES O | AGENT CONC
D.K.	X.X.	S. CHINNATAMBY
DRAWN | DESSINÉ		PROJ MGR | GEST PROJ
D.K.		S. CHINNATAMBY
CHECKED | VÉRIFIÉ		DES MGR | GEST CONC
S.L.		X.X.
COORDINATION		FIRE | INCENDIE
		CAPT. CAMPBELL

WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

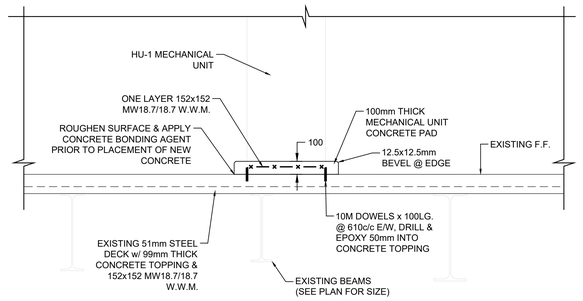
DWG. NO. | NO. DESSIN
L-T81-3019/2- 201

Canada

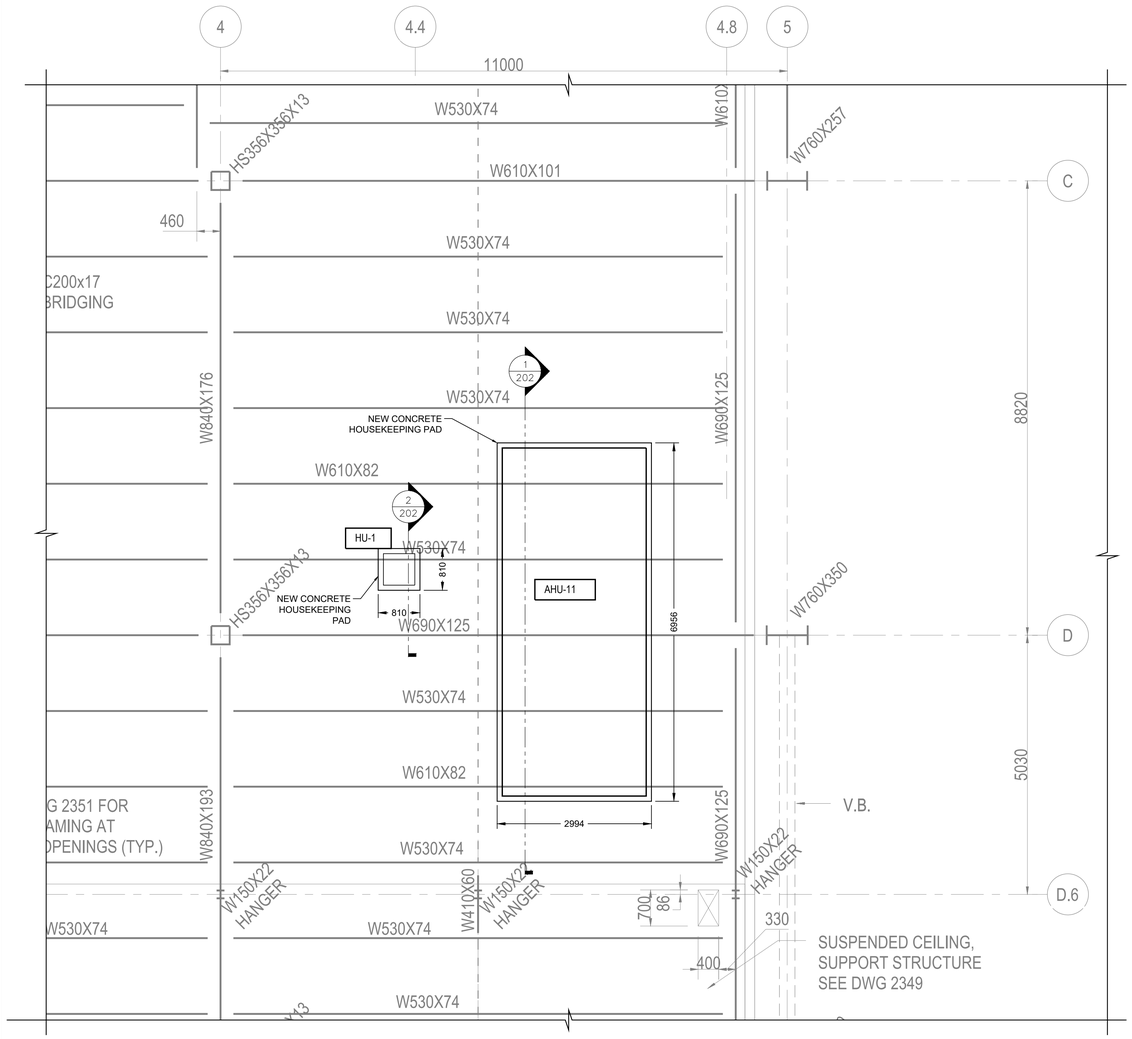
2025/Mar/28, 10:11am SSoucy W:\FILES 2018\18298\07 Structural\Design\18298 Hangar 6 Structural-R5.dwg



1/202 HOUSEKEEPING PAD @ AHU-11
SCALE: 1:20

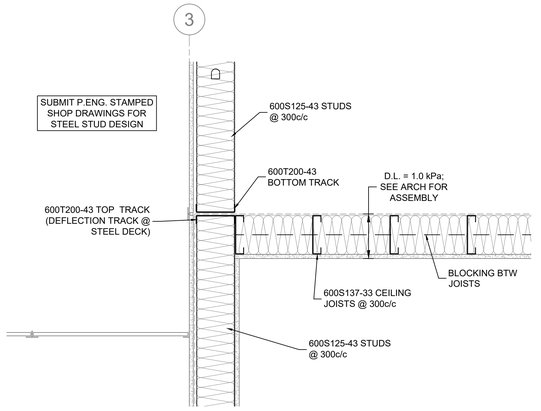


2/202 HOUSEKEEPING PAD @ HU-1
SCALE: 1:20

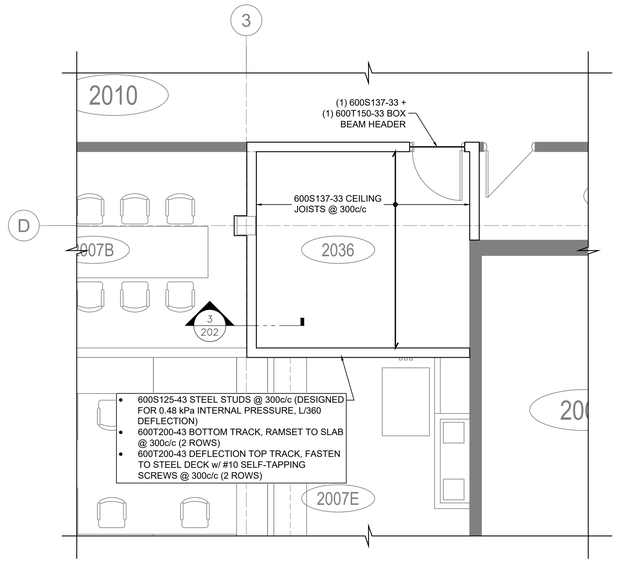


A/202 PARTIAL AREA A - EXISTING 2nd FL. FRAMING PLAN
SCALE: 1:50

UNDERLAY: SNC-LAVALIN, 8 WING TRENTON, NEW MAINTENANCE HANGAR DEVELOPMENT, HANGAR 6, DRAWING C-T81-3019-2311, "2nd LEVEL AREAS 'A' & 'B' PARTIAL FRAMING PLANS", AS-BUILT (2017/05/31)



3/202 SECURE ROOM CEILING SECTION (REF. DETAIL 5/314)
SCALE: 1:10



B/202 PARTIAL AREA A - NEW SECURE ROOM STUD FRAMING PLAN
SCALE: 1:50

Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ

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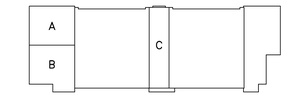
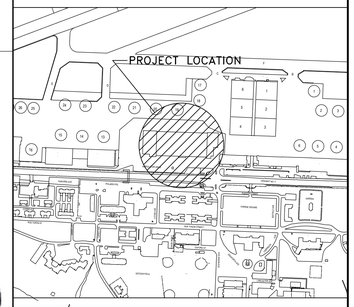


KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

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5	2025/02/24	ISSUED FOR TENDER	S.L.
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2	2020/05/19	ISSUED FOR 90% SUBMISSION	D.K.
1	2020/03/26	ISSUED FOR 60% SUBMISSION	D.K.

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER: STRUCTURAL
DATE: 2020/01/08

SUBJECT | SUJET
2nd FL. FRAMING PLANS & DETAILS FOR MECHANICAL FIT-UP

PRODUCTION	REVIEWED	REVU	
DESIGNED | ÉTUDIÉ	XX | XX		DES O | AGENT CONC
D.K.	X.X.		S. CHINNATAMBY
DRAWN | DESSINÉ			PROJ MGR | GEST PROJ
D.K.			S. CHINNATAMBY
CHECKED | VÉRIFIÉ			DES MGR | GEST CONC
S.L.			X.X.
COORDINATION			FIRE | INCENDIE
			CAPT. CAMPBELL

WBS NO. | NO. OTP: N.001755.03
PF NO. | NO. DP: PF 500006755
DWG. NO. | NO. DESSIN: L-T81-3019/2- 202

Canada

2025/Mar/28, 10:11am SSoucy W:\FILES 2018\18029807 Structural\Design\180298-Hangar 6 Structural-6.dwg

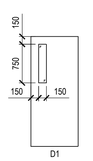
DOOR SCHEDULE

DOOR No.	SIZE	DOOR			FRAME			FIRE RATING (HR)	GLASS	GRILLE	HARDWARE	NOTES
		TYPE	MAT	FIN	TYPE	MAT	FIN					
D2000	EXIST	EXIST	EXIST	PT	EXIST	EXIST	PT	1.5 HR			EXIST	
D2001	EXIST ±900x2150	EXIST	EXIST	PT	EXIST	EXIST	PT				EXIST	
D2003	EXIST	EXIST	EXIST	PT	EXIST	EXIST	PT	1.5 HR			EXIST	
D2004	965W x 2150H	D2	HM	PT	F2	ST	PT	45 MINS			10	
D2005A	EXIST ±2- 900x2150	EXIST	EXIST	PT	EXIST	EXIST	PT	45 MINS			EXIST	
D2005B	EXIST ±2- 900x2150	EXIST	EXIST	PT	EXIST	EXIST	PT	45 MINS			EXIST	
D2005C	EXIST ±3000x3000	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	45 MINS			EXIST	METAL O/H COILING DOOR
D2006	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT	45 MINS			EXIST	
D2007AA	2-915Wx2150H	D1	WD	STA	F1	ST	PT	0 HR	TG		6	
D2007AB	2-915W x 2150H	D2	WD	STA	F1	ST	PT				6	
D2007B	965W x 2150H	D1	WD	STA	F1	ST	PT		TG		2	
D2007C	965W x 2150H	D1	WD	STA	F1	ST	PT		TG		3	
D2007D	965W x 2150H	D1	WD	STA	F1	ST	PT		TG		3	
D2007E	965W x 2150H	D2	HM	PT	F2	ST	PT	45 MINS			10	
D2007FA	965W x 2150H	D2	WD	STA	F1	ST	PT				3	
D2007FB	965W x 2150H	D2	WD	STA	F1	ST	PT				3	
D2007G	965W x 2150H	D2	WD	STA	F3	ALUM					2	
D2007H	965W x 2150H	D2	HM	PT	F2	ST	PT	45 MINS			10	
D2007J	965W x 2150H	D2	WD	STA	F1	ST	PT				7	
D2007KA	965W x 2150H	D2	WD	STA	F1	ST	PT				7	
D2007KB	965W x 2150H	D2	WD	STA	F1	ST	PT				7	
D2007L	965W x 2150H	D2	WD	STA	F1	ST	PT				7	
D2007N	965W x 2150H	D2	HM	PT	F2	ST	PT	45 MINS			10	
D2007P	965W x 2150H	D1	WD	STA	F1	ST	PT		TG		3	
D2007Q	965W x 2150H	D1	WD	STA	F1	ST	PT		TG		3	
D2007R	965W x 2150H	D1	WD	STA	F1	ST	PT		TG		3	
D2007S	965W x 2150H	D1	WD	STA	F1	ST	PT		TG		3	
D2007T	965W x 2150H	D1	WD	STA	F1	ST	PT		TG		3	
D2008	EXIST ±900x2150	EXIST	EXIST	PT	EXIST	EXIST	PT	EXIST			EXIST	
D2009	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT	EXIST			EXIST	
D2010	965W x 2150H	D2	HM	PT	F2	ST	PT	45 MINS			10	
D2011	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT	0 HR			EXIST	
D2012	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT	0 HR			EXIST	
D2013	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT	0 HR			EXIST	
D2014	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT	0 HR			EXIST	
D2015	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT	0 HR			EXIST	
D2018	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT	0 HR			EXIST	
D2019	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT	0 HR			EXIST	
D2020	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT	0 HR			EXIST	
D2021	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT	0 HR			EXIST	
D2022	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT	0 HR			EXIST	
D2023	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT	0 HR			EXIST	
D2024	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT	0 HR			EXIST	
D2025A	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT	0 HR			EXIST	
D2025B	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT	0 HR			EXIST	
D2026	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT	0 HR			EXIST	
D2028	EXIST ±900x2150	EXIST	EXIST	PT	EXIST	EXIST	PT				EXIST	
D2029	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT	0 HR			EXIST	
D2030	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT	0 HR			EXIST	
D2031	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT				EXIST	
D2032A	965W x 2150H	D1	WD	STA	F1	ST	PT	0 HR	TG		3	
D2032B	965W x 2150H	D1	WD	STA	F1	ST	PT	0 HR	TG		3	
D2032C	965W x 2150H	D1	WD	STA	F1	ST	PT	0 HR	TG		3	
D2033	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT				8	
D2034	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT	EXIST			3	
D2035	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT	0 HR			EXIST	
D2036	900W x 2150H	D2	HM	PT	F2	ST	PT	45 MINS			4	
D2037	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT	0 HR			EXIST	
D2039	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT	0 HR			EXIST	
D2040	EXIST	EXIST	EXIST	PT	EXIST	EXIST	PT	1.5 HR			EXIST	
D2041A	965W x 2150H	D1	WD	STA	F1	ST	PT	0 HR	TG		2	
D2041B	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT	0 HR			2	
D2042	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT	0 HR			EXIST	
D2043	EXIST ±900x2150	EXIST	EXIST	PT	EXIST	EXIST	PT	0 HR			EXIST	
D2044	EXIST ±900x2150	EXIST	EXIST	PT	EXIST	EXIST	PT	45 MINS			EXIST	
D2047	EXIST ±900x2150	EXIST	EXIST	PT	EXIST	EXIST	PT				EXIST	
D2048	EXIST ±900x2150	EXIST	EXIST	PT	EXIST	EXIST	PT				EXIST	
D2049	EXIST ±900x2150	EXIST	EXIST	PT	EXIST	EXIST	PT				EXIST	
D2050	EXIST	EXIST	EXIST	PT	EXIST	EXIST	PT	1.5 HR			EXIST	
D2051A	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT				EXIST	
D2051B	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT				EXIST	
D2052	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT				EXIST	
D2054A	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT				EXIST	
D2054B	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT				EXIST	
D2056AA	965W x 2150H	D2	WD	STA	F1	ST	PT				8	
D2056AB	965W x 2150H	D2	WD	STA	F1	ST	PT				8	
D2056B	965W x 2150H	D2	WD	STA	F1	ST	PT				9	
D2056C	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT	0 HR			EXIST	
D2057	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT	0 HR			EXIST	
D2058A	965W x 2150H	D1	WD	STA	F1	ST	PT		TG		2	
D2058B	965W x 2150H	D1	WD	STA	F1	ST	PT		TG		2	
D2058AA	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT	0 HR			EXIST	
D2059	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT	45 MINS			EXIST	
D2061	EXIST ±900x2150	EXIST	EXIST	PT	EXIST	EXIST	PT				EXIST	
D2062A	EXIST ±2-900x2150	EXIST	EXIST	PT	EXIST	EXIST	PT				EXIST	
D2062B	EXIST ±900x2150	EXIST	EXIST	EXIST	EXIST	EXIST	PT				EXIST	
D2070	EXIST	EXIST	EXIST	PT	EXIST	EXIST	PT	1.5 HR			EXIST	

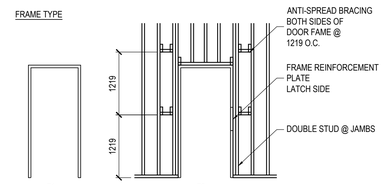
NOTES:
1. ALL HARDWARE FINISHED IN SATIN STAINLESS STEEL.
2. ALL HARDWARE TO BE COMMERCIAL / HEAVY DUTY (GRADE 1)
3. SEE DRAWINGS FOR OTHER INFORMATION.
4. DOOR HANDLES TO BE MOUNTED 900mm TO CENTRELINE ABOVE FINISHED FLOOR.
5. ALL GROUPS ARE FOR SINGLE DOOR FUNCTION UNLESS OTHERWISE NOTED.
6. ALL DOOR FRAMES ARE INSTALLED 100mm FROM ADJACENT WALL U/O NOTED
7. ALL PSF RATED FOR SOUND ARE TO BE GROUTED SOLID OR SPRAY FOAMED
8. DOOR HEIGHTS TO MATCH EXISTING U/O NOTED

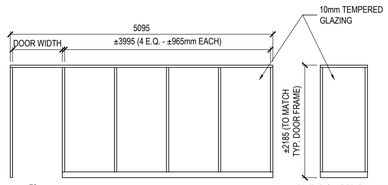
LEGEND:
- FRR - FIRE RATED
- GWG - GEORGIAN WIRE GLASS
- HM - HOLLOW METAL
- PT - PAINT
- ST - PRESSED STEEL
- TG - TEMPERED GLASS
- WD - WOOD
- ALUM - ALUMINUM
- STA - URETHANE WOOD STAIN

DOOR TYPE



FRAME TYPE





HARDWARE GROUPS

GROUP 1: RESERVED

GROUP 2: MEETING/KITCHENETTE
-LEVER SET ACTIVE, PASSAGE ROOM FUNCTION F75/F01
-1 1/2 PAIRS HINGES.
-1 CLOSER TO MATCH.
-1 DOOR STOP (FLOOR OR WALL, PENDING LOCATION)
-1 AUTO DOOR BOTTOM
-1 SOUND SEALS

GROUP 3: PRIVACY OFFICE ROOMS
-1 OFFICE LOCKSET
-1 1/2 PAIRS HINGES.
-1 CLOSER TO MATCH.
-1 DOOR STOP (FLOOR OR WALL, PENDING LOCATION)
-1 AUTO DOOR BOTTOM
-1 SOUND SEALS

GROUP 4: SECURE ROOM
- 2 UL 437 RATED HIGH SECURITY CYLINDERS (6 PINS)
- BHMA/ANSI A156.30 GRADE 1 MORTISE LOCK WITH A 25mm DEADBOLT- 2 PAIRS HINGES (NRP)
- 2 KICKPLATES
- 1 DOOR STOP
- 1 AUTO DOOR BOTTOM
- LATCH GUARDS
- FULL HEIGHT ASTRAGAL
- DOOR CONTACTS TO UL 634 HIGH SECURITY SWITCH - LEVEL 1 OR LEVEL 2

GROUP 5: RESERVED

GROUP 6: DOUBLE DOORS
-2 CONCEALED VERTICAL ROD MULTI POINT PASSAGE SETS (1 EACH DOOR)
-3 PAIRS HINGES (NRP)
-4 KICK PLATES
-2 DOOR CLOSURE
-2 CONCEALED OVERHEAD STOPS
-SECURITY HARDWARE

GROUP 7: OFFICE
-1 OFFICE LOCKSET
-1 1/2 PAIRS HINGES.
-1 DOOR STOP
-SOUND SEALS
-AUTO DOOR BOTTOM

GROUP 8: LOCKER/S.E ROOM
-LEVER SET ACTIVE, PASSAGE ROOM FUNCTION F75/F01
-1 1/2 PAIRS HINGES.
-1 CLOSER TO MATCH.
-2 KICK PLATES
-1 DOOR STOP (FLOOR OR WALL, PENDING LOCATION)
-SMOKE SEALS

GROUP 9: STORAGE DOOR
- 1 STOREROOM LOCK WITH LEVER FUNCTION, F86/F07
- 1 1/2 PAIRS HINGES.
- PERIMETER SMOKE SEALS
- 1 CLOSER .
- 1 CYLINDER.
- 2 KICK PLATES.
- 1 DOOR BOTTOM SEAL.

GROUP 10: INT. EGRESS DOORS
- 1 STOREROOM LOCK WITH LEVER FUNCTION, F86/F07
- 1 1/2 PAIRS HINGES (NRP)
- PERIMETER SMOKE SEALS
- 1 DOOR CLOSER
- 1 DOOR STOP (FLOOR OR WALL, PENDING LOCATION)
- 2 KICK PLATES
- ELECTRIC STRIKE (FAIL SECURE)
- LATCH GUARDS
- SECURITY HARDWARE

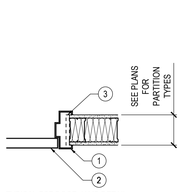
ROOM FINISH SCHEDULE

ROOM No.	ROOM NAME	FLOOR	BASE	NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL		CEILING		NOTES
		MAT	MAT	MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN	
2000	LOBBY	EXIST	EXIST	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	EXIST		
2004	CORRIDOR	EXIST/VCT	EXIST/RB	GB	PT	EXIST	PT	-	-	EXIST/GB	PT	ACT/GBB	PT	
2005	MECHANICAL ROOM	EXIST	EXIST	EXIST		EXIST		EXIST		EXIST		EXIST		
2006	ELECTRICAL ROOM	EXIST	EXIST	EXIST		EXIST		EXIST		EXIST		EXIST		
2007A	OPEN OFFICE	CAR	RB	EXIST/GB	PT	EXIST/GB	PT	GB	PT	EXIST/GB	PT	ACT/GBB	PT	
2007B	MEETING ROOM	CAR	RB	EXIST/GB	PT	GB	PT	GB	PT	GB	PT	ACT		ACT Type 2
2007C	QUIET ROOM	CAR	RB	GB	PT	GB	PT	GB	PT	GB	PT	ACT		ACT Type 2
2007D	QUIET ROOM	CAR	RB	GB	PT	GB	PT	GB	PT	GB	PT	ACT		ACT Type 2
2007E	SHARED EQUIPMENT	VCT	RB	GB	PT	EXIST/GB	PT	-	-	GB	PT	ACT		CONTINUE RB BASE ONTO MILLWORK
2007F	SQD CONFERENCE	CAR	RB	GB	PT	EXIST/GB	PT	GB	PT	GB	PT	ACT		ACT Type 2
2007G	KITCHENETTE	VCT	RB	GB	PT	GB	PT	GB	PT	GB	PT	ACT		CONTINUE RB BASE ONTO MILLWORK
2007H	OPEN OFFICE	CAR	RB	GB	PT	EXIST/GB	PT	EXIST/GB	PT	EXIST/GB	PT	ACT/GBB	PT	
2007J	SQN CWO	CAR	RB	GB	PT	GB	PT	GB	PT	EXIST	PT	ACT/GBB	PT	ACT Type 2
2007K	ADMIN	CAR	RB	GB	PT	GB	PT	GB	PT	EXIST	PT	ACT/GBB	PT	ACT Type 2
2007L	SQN CO	CAR	RB	GB	PT	GB	PT	GB	PT	EXIST	PT	ACT/GBB	PT	ACT Type 2
2007M	SHARED EQUIPMENT	VCT	RB	GB	PT	GB	PT	GB	PT	GB	PT	ACT		
2007N	CORRIDOR	CAR	RB	GB	PT	GB	PT	GB	PT	-	-	ACT		
2007P	QUIET ROOM	CAR	RB	GB	PT	GB	PT	GB	PT	GB	PT	ACT		ACT Type 2
2007Q	SLOGO & DCO	CAR	RB	GB	PT	GB	PT	GB	PT	GB	PT	ACT		ACT Type 2
2007R	CABIN CREW TRAINING	CAR	RB	GB	PT	EXIST/GB	PT	GB	PT	GB	PT	ACT		
2007S	CBT	CAR	RB	GB	PT	EXIST	PT	GB	PT	GB	PT	ACT		
2007T	SQN DUTY OPS	CAR	RB	GB	PT	GB	PT	GB	PT	GB	PT	ACT		
2007U	SARRO	CAR	RB	GB	PT	EXIST/GB	PT	EXIST/GB	PT	EXIST/GB	PT	ACT		
2008	EXISTING COMMS	EXIST	EXIST	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	
2009	EXIST. JANITOR ROOM	EXIST	EXIST	EXIST	PT	EXIST	PT	EXIST	PT	GB	PT	EXIST		
2010	CORRIDOR	EXIST/VCT	EXIST/RB	EXIST	PT	EXIST/GB	PT	EXIST/GB	PT	EXIST/GB	PT	ACT/GBB	PT	
2011	TRG O & D/TRG O	EXIST	EXIST	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	EXIST		
2012	READINESS	EXIST	EXIST	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	EXIST		
2013	SCWO	EXIST	EXIST	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	EXIST		
2014	TRAINING SECTION	EXIST	EXIST	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	EXIST		
2015	DCO	EXIST	EXIST	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	EXIST		
2016	CORRIDOR	EXIST	EXIST/RB	EXIST	PT	EXIST	PT	EXIST/GB	PT	EXIST	PT	EXIST		
2017	CORRIDOR	EXIST	EXIST/RB	EXIST/GB	PT	EXIST	PT	EXIST	PT	EXIST	PT	EXIST		
2018	STORAGE	EXIST	EXIST	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	EXIST		
2019	CO	EXIST	EXIST	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	EXIST		
2020	ADMIN ASSISTANT	CAR	RB	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	EXIST		
2021	SAMEO	EXIST	EXIST	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	EXIST		
2022	FLIGHT SAFETY	EXIST	EXIST	EXIST	PT	EXIST	PT	EXIST/GB	PT	EXIST	PT	EXIST		
2023	OPS O & D/OPS O SCHEDULING	EXIST	EXIST	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	EXIST		
2024	BOEING MANAGER	EXIST	EXIST	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	EXIST		
2025	LOADMASTERS PLANNING	EXIST	EXIST	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	EXIST		
2026	PILOT PLANNING	CAR	RB	EXIST	PT	EXIST	PT	EXIST/GB	PT	EXIST	PT	ACT		
2028	SHARED EQUIPMENT	EXIST	EXIST	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	EXIST		
2029	COFFEE	EXIST	EXIST	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	EXIST		
2030	OPS & PILOT LDR	EXIST	EXIST	EXIST/GB	PR	EXIST/GB	PT	EXIST/GB	PT	EXIST	PT	EXIST		
2031	SLOGO	EXIST	EXIST	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	EXIST		
2032A	LM LDR / DILM LDR & IC	CAR	RB	EXIST/GB	PT	GB	PT	EXIST	PT	EXIST	PT	ACT		
2032B	QUIET ROOM	CAR	RB	EXIST	PT	GB	PT	EXIST	PT	GB	PT	ACT		ACT Type 2
2032C	QUIET ROOM	CAR	RB	EXIST	PT	GB	PT	EXIST	PT	GB	PT	ACT		ACT Type 2
2033	SHARED EQUIPMENT	EXIST	EXIST	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	EXIST		
2034	ARO/HSC & AMSO/ARO	EXIST/VCT	EXIST/RB	EXIST	PT	EXIST/GB	PT	EXIST	PT	EXIST/GB	PT	EXIST/ACT		GBB DROP TO BE PT
2035	STORAGE	VCT	RB	GB	PT	GB	PT	GB	PT	EXIST	PT	ACT		
2036	COMMS ROOM	ESD	RB	GB	PT	GB	PT	GB	PT	GB	PT	GB	PT	
2037	WOMEN'S WASHROOM	CERT	CERT	CERT		CERT		CERT		CERT/GB	PT	GB	PT	
2039	MEN'S WASHROOM	CERT	CERT	CERT		CERT		CERT		CERT/GB	PT	GB	PT	
2041A	MEETING ROOM	EXIST	RB	GB	PT	GB	PT	GB	PT	EXIST	PT	EXIST		
2041B	MEETING ROOM	EXIST	RB	EXIST	PT	EXIST	PT	GB	PT	EXIST/GB	PT	EXIST		
2042	BOEING FIELD SERVICE REPS	EXIST	EXIST	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	EXIST		
2043	LOBBY	EXIST	EXIST	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	EXIST		
2046	CORRIDOR	EXIST/VCT	EXIST/RB	GB	PT	EXIST/GB	PT	GB	PT	EXIST/GB	PT	EXIST/GB	PT	
2051	TRAINING ROOM	EXIST	EXIST	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	EXIST		
2056A	LOCKERS	EXIST	RB	GB	PT	EXIST/GB	PT	GB	PT	GB	PT	ACT		POLISHED CONCRETE FLOOR
2056B	VIP SUPPLY LOCK UP	EXIST	RB	GB	PT	EXIST/GB	PT	GB	PT	GB	PT	ACT		FRP PANEL 2440 AFF. NORTH&WEST. POLISHED CONCRETE FLOOR.
2056C	NVG & TRAINING BOARD	VCT	RB	EXIST/GB	PT	EXIST	PT	GB	PT	GB	PT	ACT		
2058	LECTURE ROOM	CAR	RB	GB	PT	EXIST/GB	PT	EXIST/GB	PT	GB	PT	ACT		GBB DROP TO BE PT
2058A	STORAGE CLOSET	VCT	RB	EXIST	PT	EXIST	PT	GB	PT	EXIST	PT	ACT		
2060	CORRIDOR	EXIST	EXIST	EXIST	PT	EXIST	PT	EXIST	PT	EXIST	PT	EXIST		

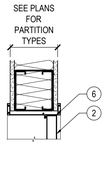
GENERAL NOTES
1. ALL HM DOORS AND FRAMES (NEW & EXISTING) TO BE PAINTED PT-TBD U/O NOTED
2. ALL WOOD DOORS TO RECEIVE CLEAR URETHANE STAIN TO MATCH EXISTING WOOD DOORS
3. ALL COLUMNS TO BE ENCLOSE IN GB ARE TO BE PAINTED TO MATCH ADJ. WALLS
4. ALL ESD FLOORING TO RECEIVE COPPER GROUNDING STRIPS TIED INTO ELECTRICAL BUS BAR AS PER MANUFACTURERS RECOMMENDATIONS.
5. ALL ESD FLOORING ROOMS TO RECEIVE "NO WAX" TILE AT FIRST FULL TILE C.L. OF DOOR OPENING.
6. ALL I.T./COMMS. ROOMS TO RECEIVE WALL TO WALL 19mm FIRE RATED PLYWOOD, INSTALLED FROM FLOOR TO 2440mm AFF. PLYWOOD TO BE PAINTED W/ NON-CONDUCTIVE, WHITE IN COLOUR (PLYWOOD TO BE PAINTED PRIOR TO THE INSTALLATION OF EQUIPMENT. ALL JOINTS, SCREW AND NAIL HOLES ARE TO BE CAULKED AND/OR COVERED.
7. COORDINATE PLYWOOD BACKING WITHIN WALLS WITH A/V DESIGN
8. PROVIDE METAL TRANSITION STRIPS AT FINISH CHANGE
9. PATCH & REPAIR ALL EXISTING WALLS PRIOR TO INSTALLATION OF NEW FINISHES.
10. ALL COLOURS & PATTERNS AS SELECTED BY DCC REP. FROM MANUFACTURERS FULL RANGE
11. ALL ROOMS THAT HAVE LIMITED SCOPE THAT ARE NOT LISTED IN THE FINISH SCHEDULE, WILL ONLY RECEIVE PATCH & REPAIR OF FINISHES AFFECTED BY THIS WORK. FINISHES TO MATCH EXISTING ADJACENT.
12. ALL EXTERIOR WINDOWS ARE TO RECEIVE ROLLER SHADES U/O NOTED. (TYP. DIMS: 1200mm x 1896mm; Quantity: 65)
13. ALL ACT ARE TO BE ACT PANEL TYPE 1 UNLESS OTHERWISE NOTED.

LEGEND:
- ACT - ACOUSTICAL CEILING TILE (ACT TYPE 1 UNLESS OTHERWISE NOTED.)
- CERT - CERAMIC TILE
- EXIST - EXISTING
- GB- GYPSUM BOARD
- GBB - GYPSUM BOARD BULKHEAD
- EXP - EXPOSED CEILING
- PT - PAINT
- CAR - CARPET TILE
- VCT - VINYL COMPOSITE TILES
- PW - PLYWOOD
- ESD - ELECTROSTATIC DISSIPATIVE FLOORING
- RB - RUBBER
- FRP - FIBERGLASS REINFORCED PLASTIC

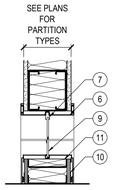
DOOR DETAILS



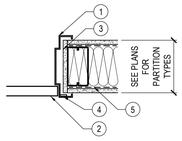
TYPICAL PSF DOOR JAMB DETAIL 'F1 FRAME TYPE'



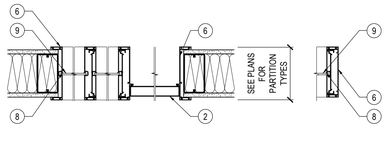
ALUM. FRAME @ DOOR HEAD 'F3 FRAME TYPE'



ALUM. FRAME @ GLAZED SIDELIGHT 'F3&F4' FRAME TYPE'



TYPICAL PSF DOOR JAMB DETAIL 'F2 FRAME TYPE'



TYPICAL ALUM FRAME PLAN DETAILS 'F3 FRAME TYPE'

ALUM FRAME PLAN DETAIL @ JAMB ENDS 'F4 FRAME TYPE'

(#) CONSTRUCTION NOTES

GENERAL NOTE
CAULK & SEAL PERIMETER OF PRESSED STEEL FRAME. FIRE CAULK IN FIRE RATED ASSEMBLIES. COORDINATE WITH PARTITION TYPES

1. NEW PRESSED STEEL FRAME (PAINTED)
2. NEW DOOR SEE DFH SCHEDULE
3. PROVIDE FIRE RATED GYPSUM FOR RATED ASSEMBLIES
4. REINFORCED PRESSED STEEL FRAME ON LATCH SIDE (COOR. W/ RCMP SECURITY STANDARDS FOR SECURE ROOM CONSTRUCTION REQUIREMENTS)
5. RESERVED.
6. ALUMINUM FRAME C/W ALUMINUM CAPS
7. GLASS STOP
8. GLAZING BEAD
9. 10mm TEMPERED GLAZING
10. 16mm PLYWOOD
11. WOOD BLOCKING

PARTITION TYPES

ALL PARTITIONS (W# *) INDICATE THE WALL ASSEMBLY ABOVE WINDOW OR DOORS

AREA A/B: 1st FLOOR SLAB TO U/S OF DECK: ±10400mm.
2nd FLOOR SLAB TO U/S OF DECK: ±5750mm.

AREA C: 1st FLOOR SLAB TO U/S OF DECK: ±7760mm.
2nd FLOOR SLAB TO U/S OF DECK: ±8200mm.
PENTHOUSE FLOOR SLAB TO U/S OF DECK: ±12500mm.

W1 TYPICAL WALL
- 16mm TYPE 'X' GYPSUM BOARD, BOTH SIDES
- 92mm METAL STUDS @ 400mm O.C. C/W
- 92mm ACOUSTICAL BATT INSULATION (WALL TO EXTEND FROM SLAB TO 150mm ABOVE FINISHED CEILING, ACOUSTIC CAULK ALL PENETRATIONS, PERIMETERS AND OBSTRUCTIONS)

W2 SECURE WALL
- 16mm TYPE 'X' GYPSUM BOARD
- 18ga 152mm METAL STUDS @ 300mm O.C. (SECURED TOP & BOTTOM W/ RIVETS OR WELDS)
- 152mm ACOUSTICAL BATT INSULATION
- 3mm FLATTENED DIAMOND METAL MESH (SECURED W/ RIVETS OR WELDS)(ATTACK SIDE)
- 16mm TYPE 'X' GYPSUM BOARD (WALL TO EXTEND FROM SLAB TO U/S OF DECK, FIRE CAULK ALL PENETRATIONS, PERIMETERS AND OBSTRUCTIONS) PROVIDE FRAMING AROUND PENETRATIONS AS PER RCMP G13-01 (SSR) STANDARDS
- 16ga SHEET STEEL BOTH SIDES OF SECURE SIDE OF DOOR MINIMUM 1200mm ALL SIDES (COOR. W/ RCMP SECURITY STANDARDS FOR SECURE ROOM CONSTRUCTION REQUIREMENTS)

W3 1HR FRR WALL ASSEMBLY (W53 OR WXX)
- 16mm TYPE 'X' GYPSUM BOARD, BOTH SIDES
- 152mm STRUCTURAL STEEL STUDS @ 400mm O.C. C/W
- 152mm MINERAL FIBRE INSULATION (WALL TO EXTEND FROM SLAB TO U/S OF DECK, FIRE STOP ALL PENETRATIONS, PERIMETERS AND OBSTRUCTIONS)

W4 1HR FRR WALL ASSEMBLY (W53 OR WXX)
- 16mm TYPE 'X' GYPSUM BOARD, BOTH SIDES
- 92mm METAL STUDS @ 400mm O.C. C/W
- 92mm MINERAL FIBRE INSULATION, (WALL TO EXTEND FROM SLAB TO 150mm ABOVE FINISHED CEILING, FIRE STOP ALL PENETRATIONS, PERIMETERS AND OBSTRUCTIONS)

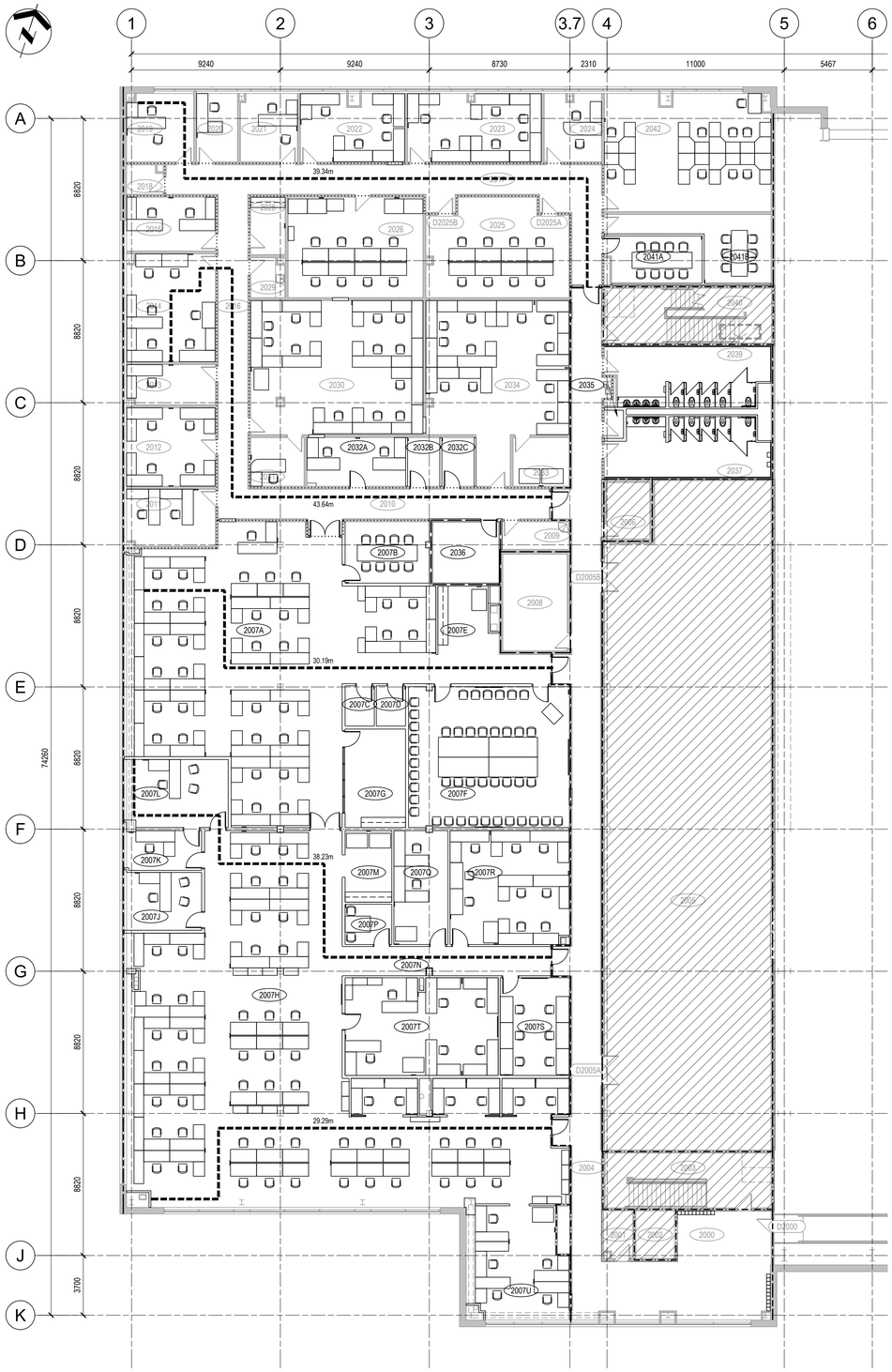
W5 0HR FIRE SEPARATION
-16mm TYPE 'X' GYPSUM BOARD, BOTH SIDES
-92mm METAL STUDS @ 600mm O.C.
-92mm MINERAL FIBRE BATT INSULATION (FIRE CAULK ALL PERIMETER, PENETRATIONS & OBSTRUCTIONS)

W6 0HR FIRE SEPARATION
-16mm TYPE 'X' GYPSUM BOARD, BOTH SIDES
-152mm METAL STUDS @ 600mm O.C.
-152mm MINERAL FIBRE BATT INSULATION (FIRE CAULK ALL PERIMETER, PENETRATIONS & OBSTRUCTIONS)

W7 FULL HEIGHT WALL
-16mm TYPE 'X' GYPSUM BOARD, BOTH SIDES
-152mm METAL STUDS @ 400mm O.C. C/W
-152mm ACOUSTICAL BATT INSULATION (WALL TO EXTEND FROM SLAB TO U/S OF DECK, ACOUSTIC CAULK ALL PENETRATIONS, PERIMETERS AND OBSTRUCTIONS)

W8 FULL HEIGHT WALL
-16mm TYPE 'X' GYPSUM BOARD, BOTH SIDES
-152mm METAL STUDS @ 400mm O.C. C/W
-152mm ACOUSTICAL BATT INSULATION (STUDS TO EXTEND FROM SLAB TO U/S OF DECK, GYPSUM BOARD TO EXTEND 150mm ABOVE FINISHED CEILING ACOUSTIC CAULK ALL PENETRATIONS, PERIMETERS AND OBSTRUCTIONS)

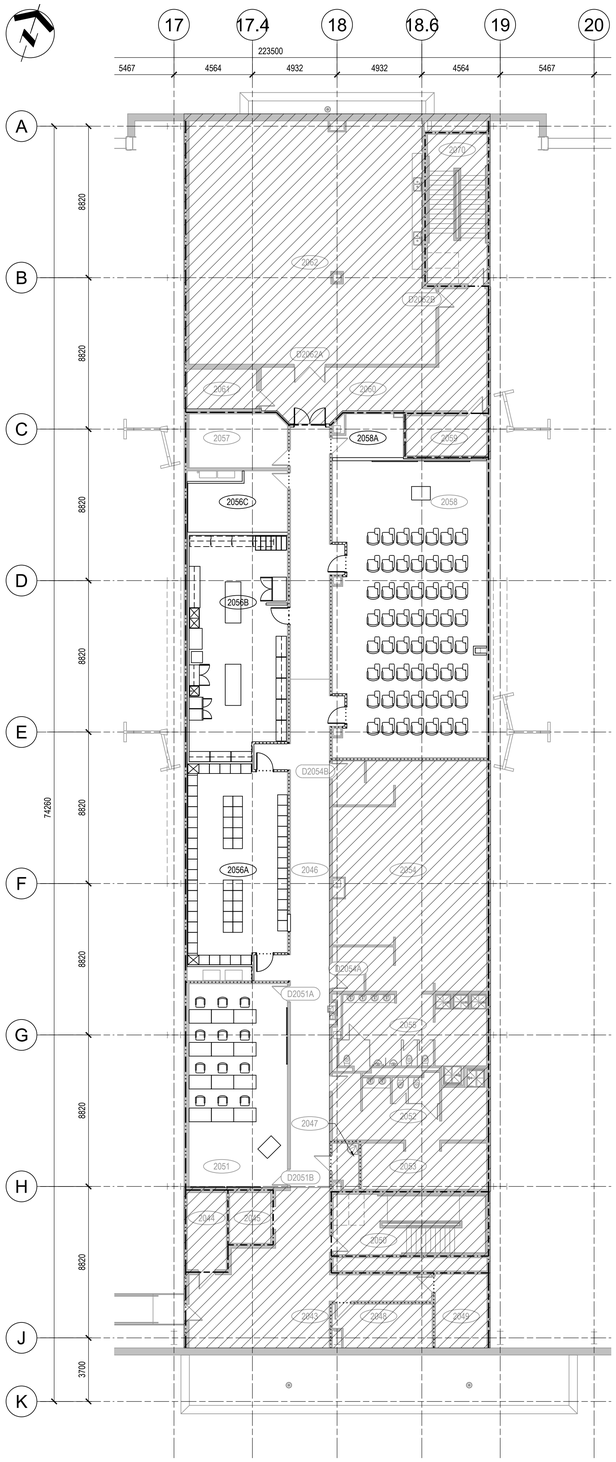
W9 FURRING WALL
-16mm TYPE 'X' GYPSUM BOARD, THIS SIDE
-152mm METAL STUDS @ 400mm O.C.
-152mm ACOUSTICAL BATT INSULATION (WALL TO EXTEND FROM SLAB TO U/S OF DECK, ACOUSTIC CAULK ALL PENETRATIONS, PERIM



SECOND FLOOR FIRE SPEARATION PLAN - AREA 'A & B'

SCALE: 1:150

2
302



SECOND FLOOR FIRE SPEARATION PLAN - AREA 'C'

SCALE: 1:150

1
302

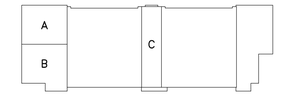
LEGEND

- LIMITED SCOPE OF WORK
- SECURE WALLS
- 0HR FRR PARTITION
- 1HR FRR PARTITION
- 2HR FRR PARTITION
- 3HR FRR PARTITION
- TRAVEL DISTANCE

ONTARIO ASSOCIATION OF ARCHITECTS
ROBERT PHILIP HUGHMARTIN
LICENCE
5672

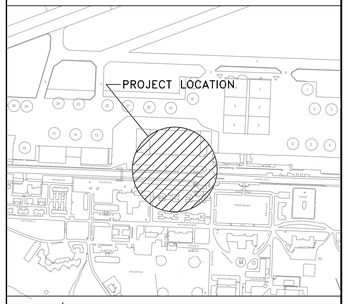
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

GENERAL NOTES

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2. CONTRACTOR IS RESPONSIBLE TO CHECK AND FIELD VERIFY ALL DIMENSIONS.
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4. CONTRACTOR TO NOTIFY DESIGN CONSULTANT IMMEDIATELY OF ANY DISCREPANCIES OF DIMENSIONS, MATERIALS OR CONDITIONS.
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8. PROVIDE PROTECTION TO ALL "EXISTING TO REMAIN" MATERIALS.
9. REPAIR, PATCH AND MAKE GOOD ALL EXISTING FINISHES AND SURFACES AFFECTED BY WORK.
10. MAKE ALL EXISTING SURFACES, IN AREA OF WORK, READY TO RECEIVE NEW FINISH.
11. ALL ACCESS HATCHES ARE TO BE PROVIDED BY THE MECHANICAL/ELECTRICAL CONTRACTOR TO SUIT. PROVIDE SIZE AND LOCATIONS TO CONSULTANTS FOR REVIEW AND COORDINATION, PRIOR TO INSTALLATION.
12. SECURITY EQUIPMENT REMOVAL AND REINSTATEMENT (BY OWNER). ACCESS AND LOCATIONS TO BE COORDINATED, PRIOR TO ENCLOSING CEILINGS/WALLS.
13. ALL CORING, SAW CUTS AND PENETRATIONS THROUGH STRUCTURE TO BE SCANNED, REVIEWED & APPROVED BY LICENSED STRUCTURAL ENGINEER.
14. CONTRACTOR TO ENSURE ALL FIRE SEPARATIONS ARE MAINTAINED ACCORDING TO SPECIFIED RATINGS.

NO.	DATE	REVISION	APPR.
5	2024/03/20	ISSUED FOR TENDER r.1	
4	2020/09/24	ISSUED FOR TENDER	T.H.
3	2020/08/19	ISSUED FOR 100% SUBMISSION	T.H.
2	2020/05/19	ISSUED FOR 90% SUBMISSION	T.H.
1	2020/03/26	ISSUED FOR 60% SUBMISSION	T.H.

SCALE | ÉCHELLE
1 : 150
3 0 3 6 9m

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
ARCHITECTURAL	2025/03/20

SUBJECT | SUJET
FIRE SEPARATION PLAN

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: T.H.	XX | XX: X.X.	DES O | AGENT CONC: S.CHINNATAMBY
DRAWN | DESSINÉ: P.L.		PROJ MGR | GEST PROJ: S.CHINNATAMBY
CHECKED | VÉRIFIÉ		DES MGR | GEST CONC: X.X.
COORDINATION		FIRE | INCENDIE: CAPT. CAMPBELL

WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

DWG. NO. | NO. DESSIN
L-T81-3019/2- 302

Canada

BORDER LAST UPDATED 2012-04-01

Z:\Projects\2019\19179_P_DCC_Hangar6_FitUp\03_CADD\01_Current_Active\02_Sheets\302 Key plan & Fire separation.dwg
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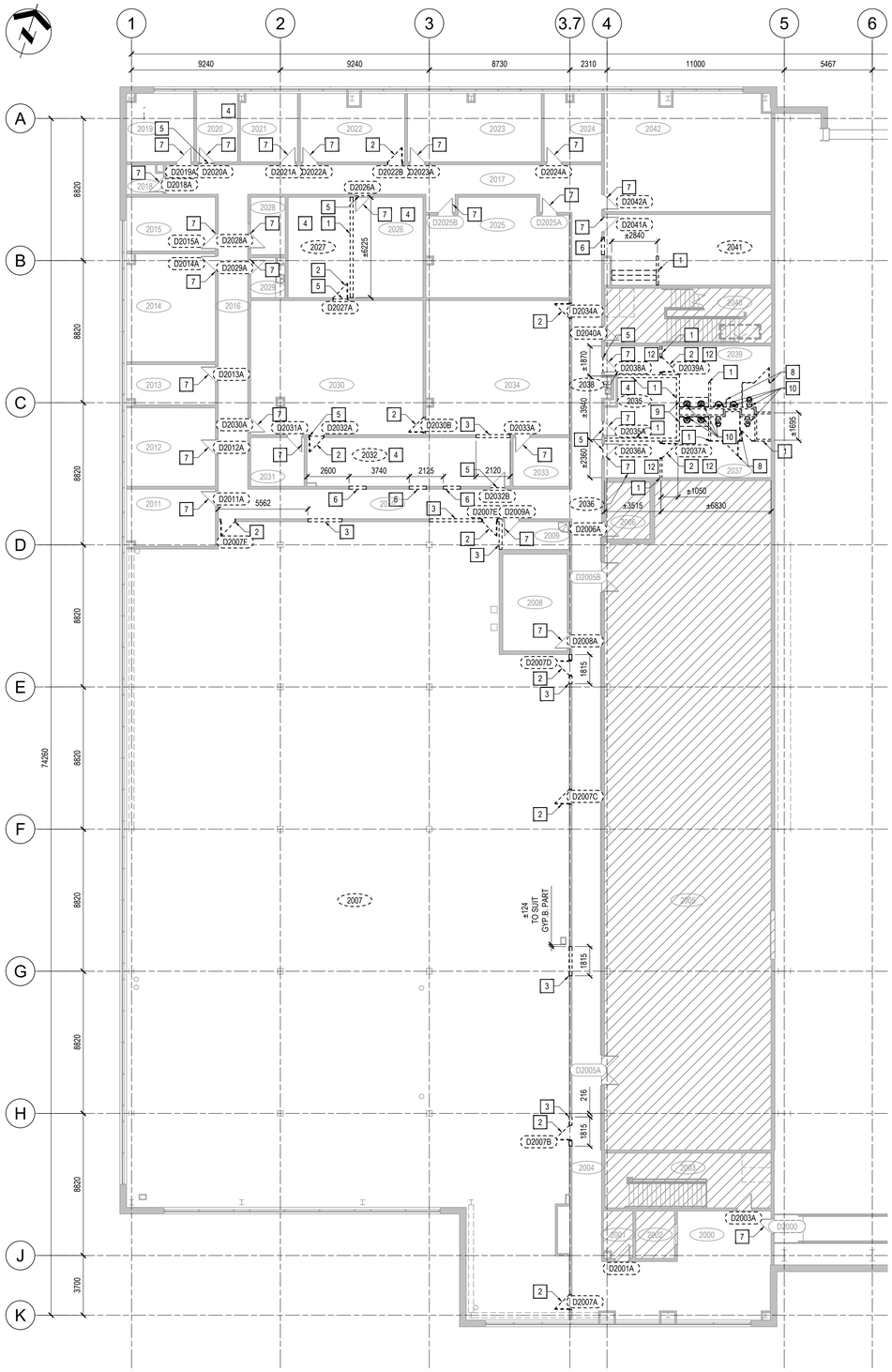
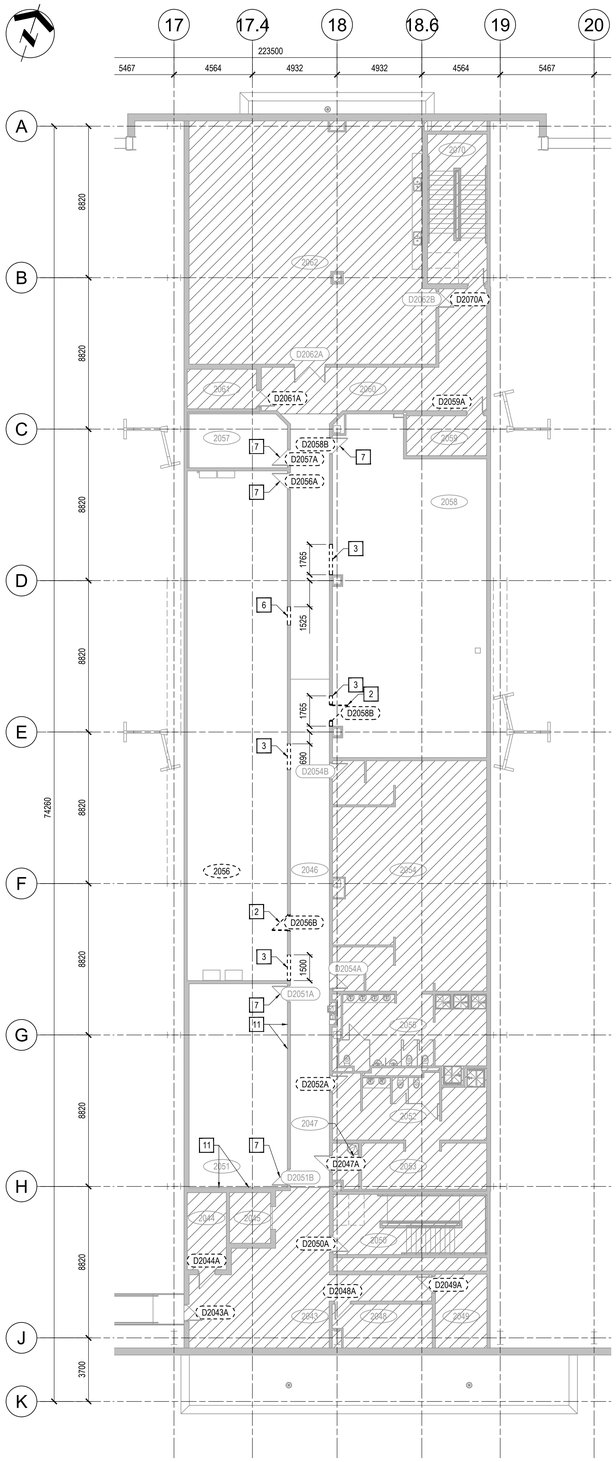
mackenzie.mclean
2025/Mar/28, 2:35pm



SECOND FLOOR DEMOLITION PLAN - AREA 'A & B'

SCALE: 1:150

2
303



SECOND FLOOR DEMOLITION PLAN - AREA 'C'

SCALE: 1:150

1
303

DEMOLITION NOTES

1. TYPICAL REMOVAL ALL EXISTING FRAMED PARTITIONS (TYP. W6). COORDINATE WITH M&E DRAWINGS FOR M&E DEMOLITION
2. REMOVE EXISTING DOOR, FRAME AND HARDWARE AND RETURN TO CLIENT FOR FUTURE USE. ASSUME THE FOLLOWING HARDWARE:
   - 1.5 HINGE PAIR (NRP)
   - 1 STOREROOM LATCHSET
   - 1 CLOSER
   - ALL ASSOCIATED POWER / SECURITY HARDWARE AND CONDUIT
3. EXTENT OF WALL OPENING. DEMOLISH EXISTING PARTITION (TYP. W6). COORDINATE WITH NEW CONSTRUCTION AND DFH SCHEDULE.
4. REMOVE EXISTING VCT FLOOR FINISH, BASE, WALL TILES AND ADHESIVES. PATCH AND REPAIR EXISTING SUBSTRATE FLOOR TO RECEIVE NEW FLOOR FINISHES.
5. EXTENT OF FLOOR FINISH DEMOLITION.
6. DEMOLISH EXISTING OPENING TO SUIT NEW DOOR AND FRAME. COORDINATE W/ DFH SCHEDULE
7. EXISTING DOOR TO REMAIN. SEE DFH SCHEDULE FOR HARDWARE.
8. EXISTING TOILET PARTITION TO BE DEMOLISHED
9. EXISTING MILLWORK TO BE DEMOLISHED
10. EXISTING PLUMBING FIXTURES TO BE DEMOLISHED
11. SELECTIVE DEMOLITION AT WALL TO ACCOMMODATE NEW EQUIPMENT INSTALLATIONS.
12. REMOVE EXISTING CERAMIC TILE FLOOR FINISH, BASE, WALL TILES AND ADHESIVES. PATCH AND REPAIR EXISTING SUBSTRATE FLOOR TO RECEIVE NEW FLOOR FINISHES.

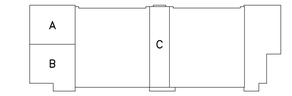
LEGEND

- LIMITED SCOPE OF WORK
- # — DEMO - NOTES
- 000 — DEMO - ROOM IDENTIFICATION
- D### — DEMO - DOOR NUMBER
- 000 — EXISTING - ROOM IDENTIFICATION
- D### — EXISTING - DOOR NUMBER
- DEMO - PARTITION
- EXISTING - PARTITION

ONTARIO ASSOCIATION OF ARCHITECTS
ROBERT PHILIP HUGH MARTIN
LICENCE
5672

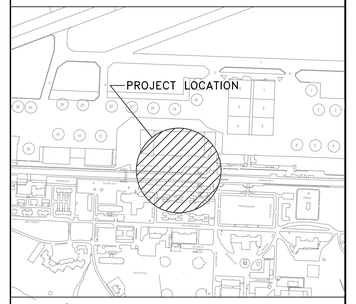
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

GENERAL NOTES

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NO.	DATE	REVISION	APPR.
5	2025/02/24	ISSUED FOR TENDER r.1	
4	2020/09/24	ISSUED FOR TENDER	T.H.
3	2020/08/19	ISSUED FOR 100% SUBMISSION	T.H.
2	2020/05/19	ISSUED FOR 90% SUBMISSION	T.H.
1	2020/03/26	ISSUED FOR 60% SUBMISSION	T.H.

SCALE | ÉCHELLE
1 : 150 (3 0 3 6 9m)

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER: ARCHITECTURAL
DATE: 2025/03/20

SUBJECT | SUJET
SECOND FLOOR
DEMOLITION PLAN

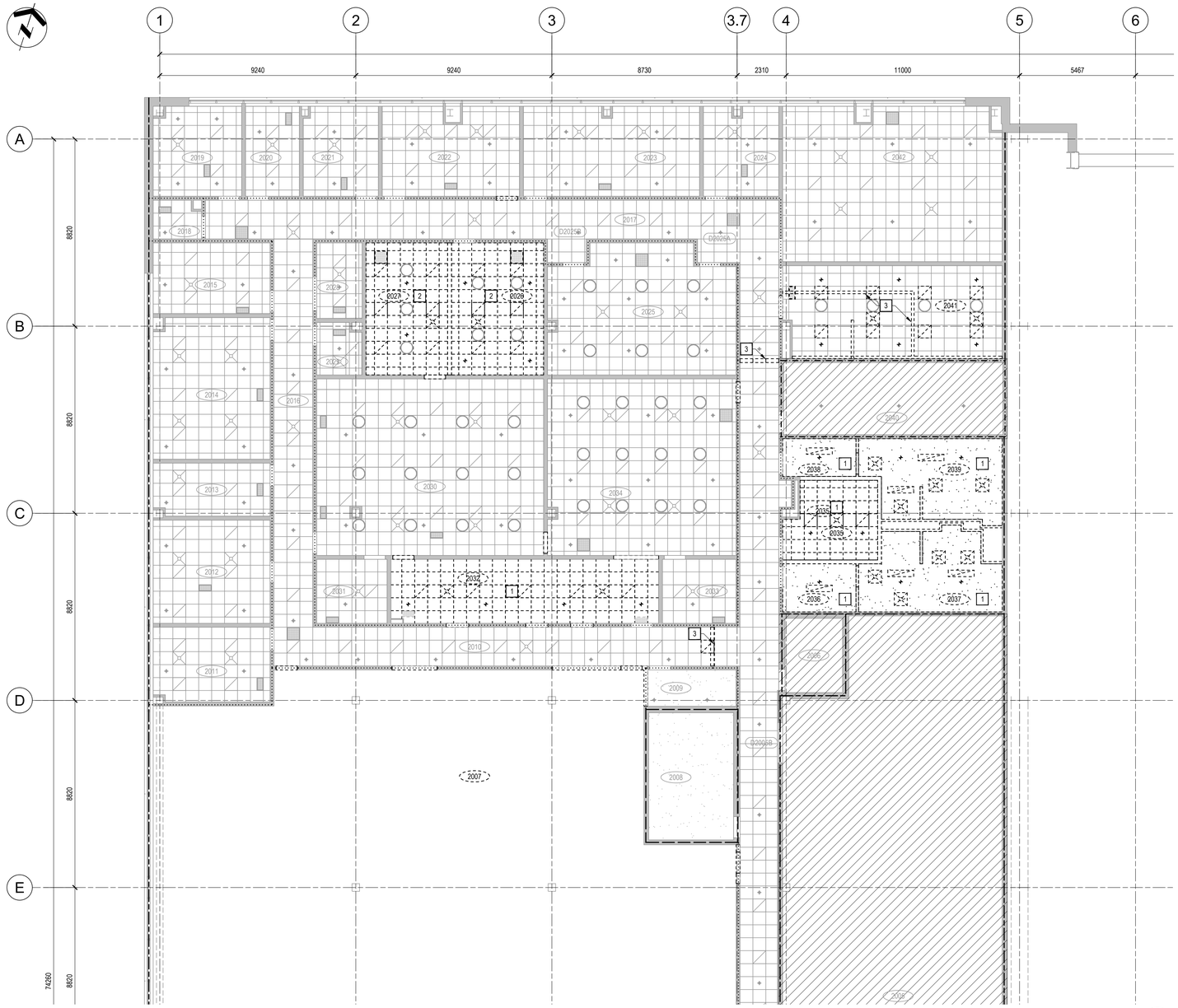
PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: T.H.	XX | XX: X.X.	DES O | AGENT CONC: S.CHINNATAMBY
DRAWN | DESSINÉ: P.L.		PROJ MGR | GEST PROJ: S.CHINNATAMBY
CHECKED | VÉRIFIÉ		DES MGR | GEST CONC: X.X.
COORDINATION		FIRE | INCENDIE: CAPT. CAMPBELL

WBS NO. | NO. OTP: N.001755.03
PF NO. | NO. DP: PF 500006755
DWG. NO. | NO. DESSIN: L-T81-3019/2- 303

Canada

BORDER LAST UPDATED 2012-04-01

2025/Mar/28, 2:38pm mackenzie.mclean B1 1000 x 707_E Z:\Projects\201919179_P_DCC_Hanger6_FitUp\03_CADD\01 Current_Active\02_Sheets\303 Demolition plan.dwg



SECOND FLOOR RCP DEMOLITION - AREA 'A'

SCALE: 1:100

1
304

RCP DEMOLITION NOTES

1. REMOVE ALL EXISTING CEILINGS AND SUSPENSION SYSTEMS.
2. REMOVE ALL EXISTING L.I.T. CEILING. EXISTING LIGHT TUBE TO REMAIN, PROTECT DURING DEMOLITION.
3. CUT BACK EXISTING T-BAR CEILING GRID TO SUIT NEW FULL HEIGHT PARTITION. PROVIDE NEW EDGE TRIM.

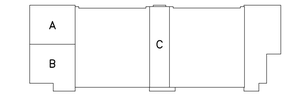
ONTARIO ASSOCIATION OF ARCHITECTS
ROBERT PHILIP HUGH MARTIN
LICENCE
5672

LEGEND

- LIMITED SCOPE OF WORK
- SECURE WALLS
- 0HR FRR PARTITION
- 1HR FRR PARTITION
- 2HR FRR PARTITION
- 3HR FRR PARTITION
- # DEMOLITION NOTES
- 000 EXISTING - ROOM IDENTIFICATION
- 000 DEMO - ROOM IDENTIFICATION
- EXISTING - PARTITION
- DEMO - PARTITION
- EXISTING 610X610 L.I.T. CEILING
- DEMO - 610X610 L.I.T. CEILING
- EXISTING GYPSUM BOARD CEILING
- DEMO - GYPSUM BOARD CEILING
- EXISTING - MECHANICAL RETURN
- DEMO - MECHANICAL RETURN
- EXISTING - MECHANICAL DIFFUSER
- DEMO - MECHANICAL DIFFUSER
- EXISTING - SPRINKLER HEAD
- DEMO - SPRINKLER HEAD
- EXISTING - 2X2 LIGHT FIXTURE
- DEMO - 2X2 LIGHT FIXTURE
- DEMO - STRIP LIGHTING
- EXISTING LIGHT TUBE

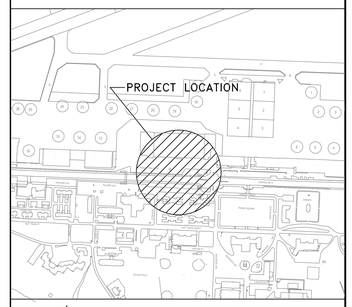
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

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1	2020/03/26	ISSUED FOR 60% SUBMISSION	T.H.

SCALE | ÉCHELLE
1 : 100 (2 0 2 4 6m)

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
ARCHITECTURAL	2025/03/20

SUBJECT | SUJET
SECOND FLOOR
RCP DEMOLITION
AREA 'A'

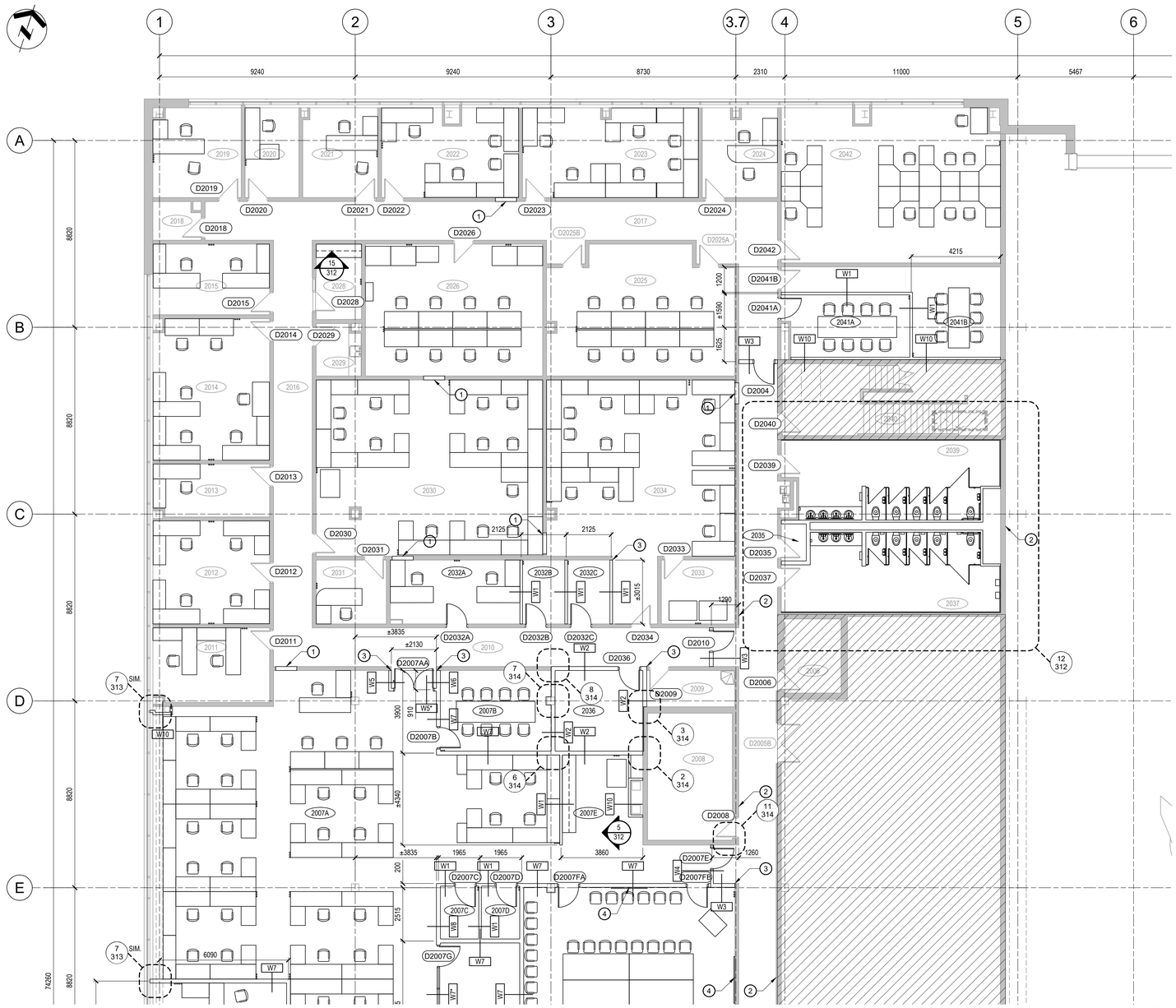
PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: T.H.	XX | XX: X.X.	DES O | AGENT CONC: S.CHINNATAMBY
DRAWN | DESSINÉ: P.L.		PROJ MGR | GEST PROJ: S.CHINNATAMBY
CHECKED | VÉRIFIÉ		DES MGR | GEST CONC: X.X.
COORDINATION		FIRE | INCENDIE: CAPT. CAMPBELL

WBS NO. | NO. OTP: N.001755.03
PF NO. | NO. DP: PF 500006755
DWG. NO. | NO. DESSIN: L-T81-3019/2- 304

Canada

BORDER LAST UPDATED 2012-04-01

2025/Mar/28, 2:39pm mackenzie.mclean Z:\Projects\20191917\9_P_DCC_Hangar6_FitUp\03_CADD\01_Current_Active\02_Sheets\304 Reflected Ceiling Demolition plan - A.dwg



SECOND FLOOR NEW CONSTRUCTION PLAN - AREA 'A'

SCALE: 1:100

1 / 305

CONSTRUCTION NOTES

GENERAL NOTES
FURNITURE (NIC) TBD BY CLIENT

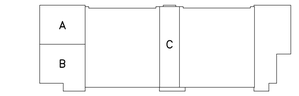
1. INFILL EXISTING DOOR OPENING. INFILL TO MATCH ADJACENT PARTITION (typ. W6)
2. FIRE STOP AND SEAL ALL PENETRATIONS THROUGH EXISTING PARTITION, FLOOR, CEILING & EXTERIOR WALL INTERSECTIONS.
3. ALIGN NEW PARTITION WITH ADJACENT PARTITION
4. (N.I.C.) A/V EQUIPMENT. COORDINATE POWER, COMMS AND DATA REQUIREMENTS WITH OTHER DISCIPLINES AND DCC A/V DESIGNER. PROVIDE BACKING WITHIN WALLS TO SUIT.

LEGEND

- LIMITED SCOPE OF WORK
- (#) NEW - CONSTRUCTION NOTES
- (000) EXISTING - ROOM IDENTIFICATION
- (D###) EXISTING - DOOR NUMBER
- (000) NEW - ROOM IDENTIFICATION
- (D###) NEW - DOOR NUMBER
- EXISTING - PARTITION
- NEW - PARTITION

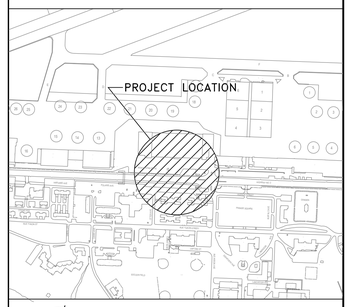
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

GENERAL NOTES

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2. CONTRACTOR IS RESPONSIBLE TO CHECK AND FIELD VERIFY ALL DIMENSIONS.
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8. PROVIDE PROTECTION TO ALL "EXISTING TO REMAIN" MATERIALS.
9. REPAIR, PATCH AND MAKE GOOD ALL EXISTING FINISHES AND SURFACES AFFECTED BY WORK.
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NO.	DATE	REVISION	APPR.
5	2025/02/24	ISSUED FOR TENDER r.1	
4	2020/09/24	ISSUED FOR TENDER	T.H.
3	2020/08/19	ISSUED FOR 100% SUBMISSION	T.H.
2	2020/05/19	ISSUED FOR 90% SUBMISSION	T.H.
1	2020/03/26	ISSUED FOR 60% SUBMISSION	T.H.

ONTARIO ASSOCIATION OF ARCHITECTS
ROBERT PHILIP HUGH MARTIN
LICENCE 5672

SCALE | ÉCHELLE
1 : 100 (2 0 2 4 6m)

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
ARCHITECTURAL	2025/03/20

SUBJECT | SUJET
SECOND FLOOR
NEW CONSTRUCTION PLAN
AREA 'A'

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ	XX | XX	DES O | AGENT CONC
T.H.	X.X.	S.CHINNATAMBY
DRAWN | DESSINÉ		PROJ MGR | GEST PROJ
P.L.		S.CHINNATAMBY
CHECKED | VÉRIFIÉ		DES MGR | GEST CONC
		X.X.
COORDINATION		FIRE | INCENDIE
		CAPT. CAMPBELL

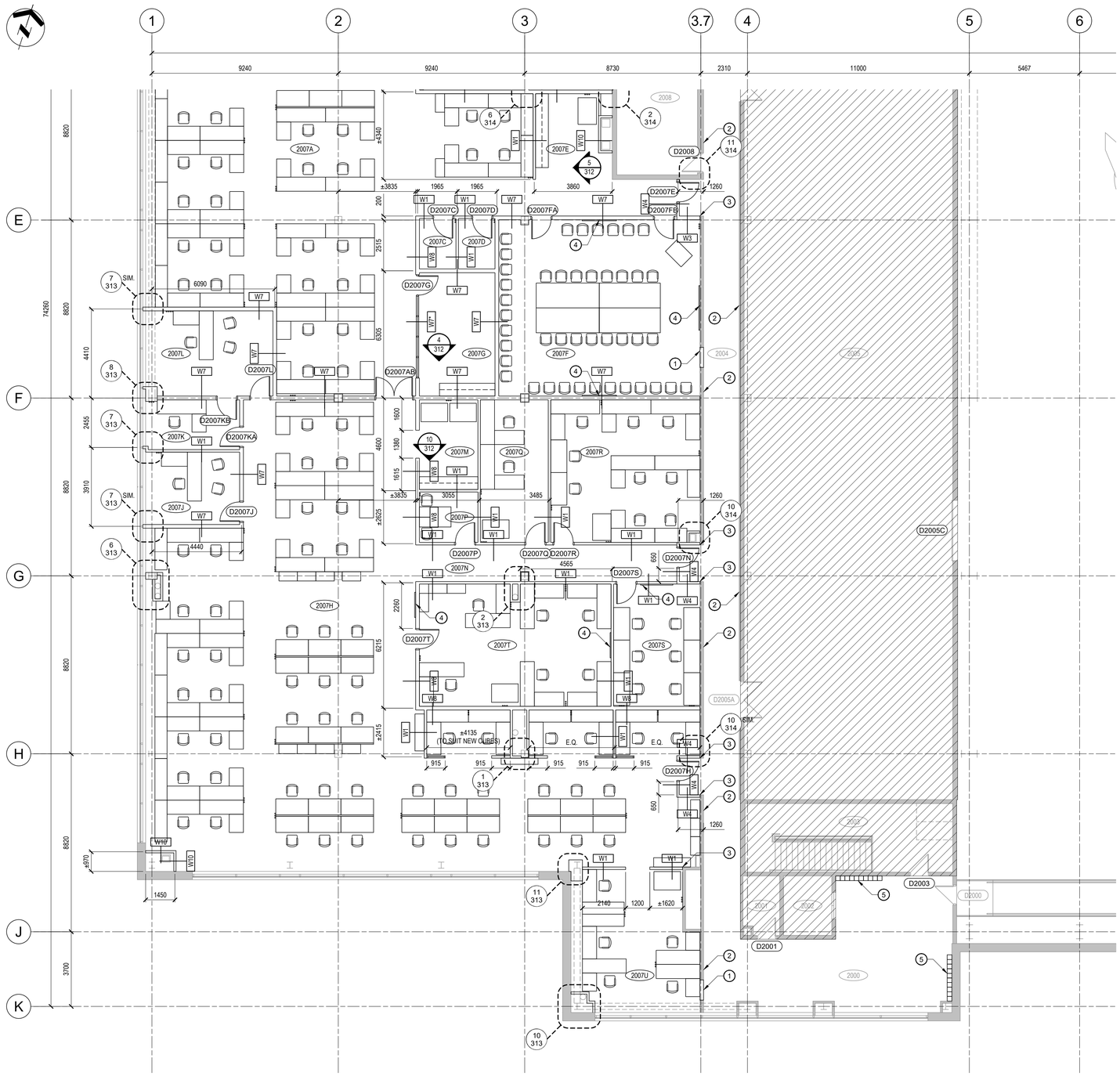
WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

DWG. NO. | NO. DESSIN
L-T81-3019/2- 305

Canada

BORDER LAST UPDATED: 2012-04-01

2025/Mar/28, 2:40pm mackenzie.mclean Z:\Projects\2019\19179_P_DCC_Hangar6_Fit-up\03_CADD\01_Current_Active\02_Sheets\305 New construction plan - A.dwg B1 1000 x 707_E



SECOND FLOOR NEW CONSTRUCTION PLAN - AREA 'B'

SCALE: 1:100 — 1 / 306

CONSTRUCTION NOTES

GENERAL NOTES
FURNITURE (NIC) TBD BY CLIENT

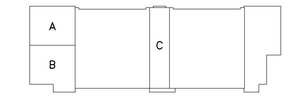
1. INFILL EXISTING DOOR OPENING. INFILL TO MATCH ADJACENT PARTITION
2. FIRE STOP AND SEAL ALL PENETRATIONS THROUGH EXISTING PARTITION, FLOOR, CEILING & EXTERIOR WALL INTERSECTIONS.
3. ALIGN NEW PARTITION WITH ADJACENT PARTITION
4. (N.I.C.) A/V EQUIPMENT. COORDINATE POWER, COMMS AND DATA REQUIREMENTS WITH OTHER DISCIPLINES AND DCC A/V DESIGNER. PROVIDE BACKING WITHIN WALLS TO SUIT.
5. 10 STACK - CELL PHONE LOCKERS.

LEGEND

- LIMITED SCOPE OF WORK
- (#) NEW - CONSTRUCTION NOTES
- (000) EXISTING - ROOM IDENTIFICATION
- (D###) EXISTING - DOOR NUMBER
- (000) NEW - ROOM IDENTIFICATION
- (D###) NEW - DOOR NUMBER
- EXISTING - PARTITION
- NEW - PARTITION

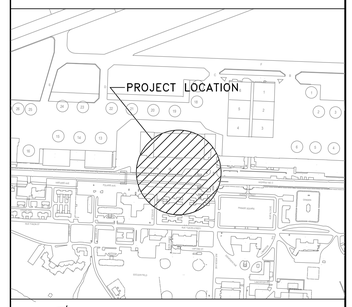
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



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ONTARIO ASSOCIATION OF ARCHITECTS — ROBERT PHILIP HUGH MARTIN — LICENCE 5672

SCALE | ÉCHELLE 1 : 100 (2 0 2 4 6m)

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER: ARCHITECTURAL
DATE: 2025/03/20

SUBJECT | SUJET
SECOND FLOOR
NEW CONSTRUCTION PLAN
AREA 'B'

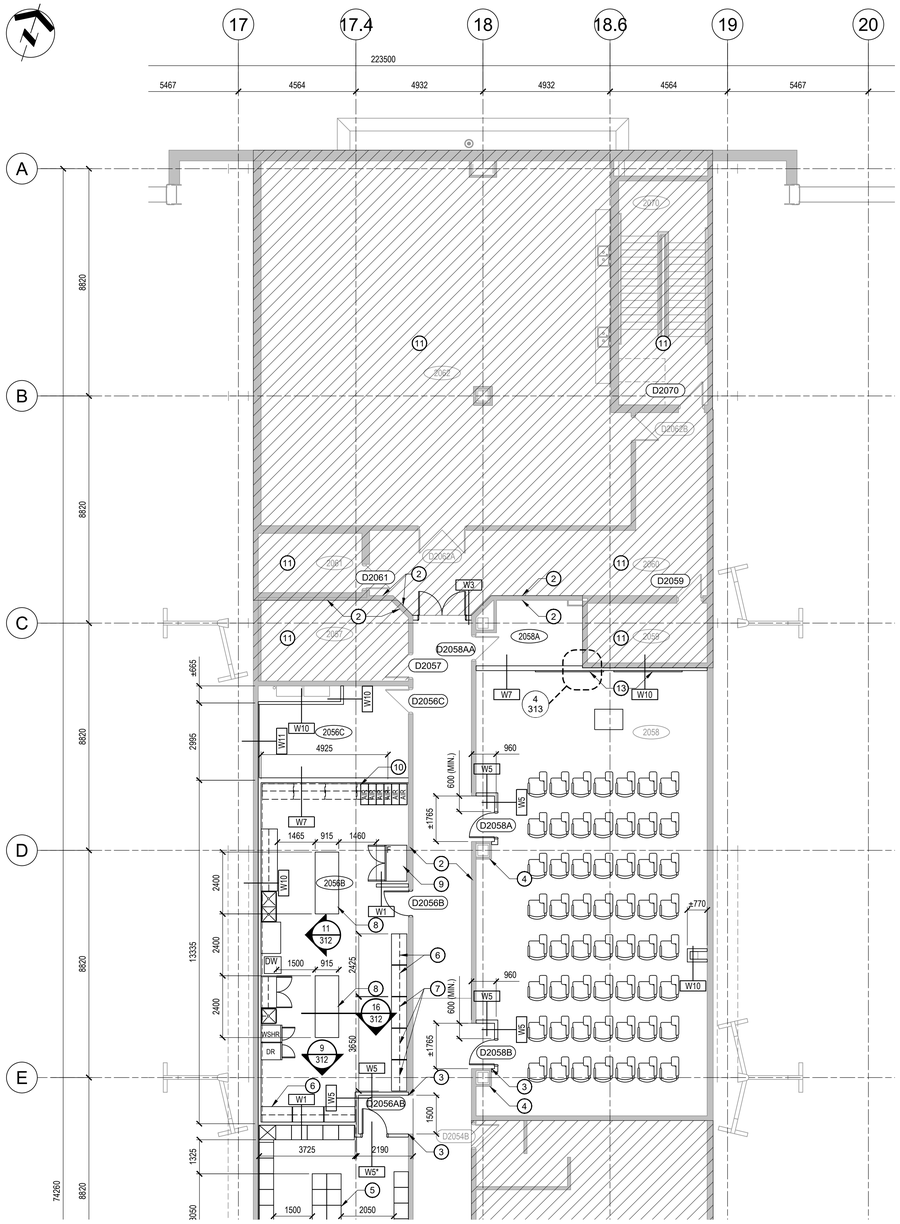
PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: T.H.	XX | XX: X.X.	DES O | AGENT CONC: S.CHINNATAMBY
DRAWN | DESSINÉ: P.L.		PROJ MGR | GEST PROJ: S.CHINNATAMBY
CHECKED | VÉRIFIÉ		DES MGR | GEST CONC: X.X.
COORDINATION		FIRE | INCENDIE: CAPT. CAMPBELL

WBS NO. | NO. OTP: N.001755.03
PF NO. | NO. DP: PF 500006755
DWG. NO. | NO. DESSIN: L-T81-3019/2- 306

Canada

BORDER LAST UPDATED: 2012-04-01

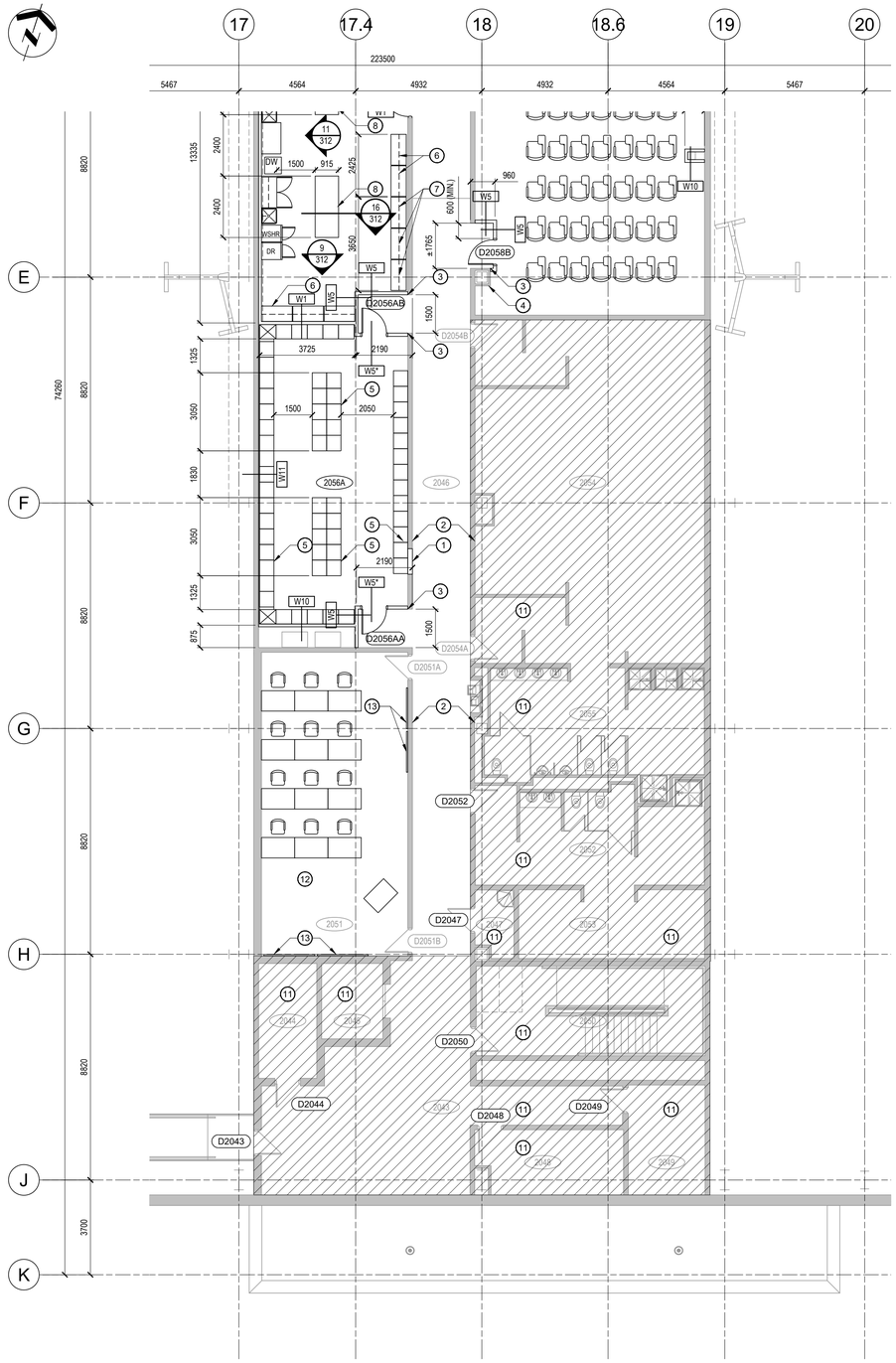
2025/Mar/28, 2:41pm mackenzie.mclean Z:\Projects\2019\19179_P_DCC_Hangar6_FitUp\03_CAD\D\01_Current_Active\02_Sheets\306 New construction plan - B.dwg



SECOND FLOOR NEW CONSTRUCTION PLAN - AREA 'C'

SCALE: 1:100

2
307



SECOND FLOOR NEW CONSTRUCTION PLAN - AREA 'C'

SCALE: 1:100

1
307

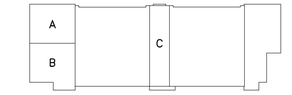
CONSTRUCTION NOTES

GENERAL NOTES
FURNITURE (NIC) TBD BY CLIENT

1. INFILL EXISTING DOOR OPENING. INFILL TO MATCH ADJACENT PARTITION
2. FIRE STOP AND SEAL ALL PENETRATIONS THROUGH EXISTING PARTITION, FLOOR, CEILING & EXTERIOR WALL INTERSECTIONS.
3. ALIGN NEW PARTITION WITH ADJACENT PARTITION
4. CONTINUE EXISTING COLUMN SURROUNDS 150mm ABOVE NEW FINISHED CEILING HEIGHTS.
5. NEW SECURITY STORAGE LOCKER CABINETS (610Wx560Dx1830H)
6. 400 SERIES (CDS) AWMAC'S STANDARD - 400 TALL STORAGE CABINET (2200Hx1200Wx610D)
7. 500 SERIES (CDS) AWMAC'S STANDARD - 500 TALL STORAGE CABINET (2200Hx1200Wx610D)
8. NEW STAINLESS STEEL COUNTERS
9. AIRPLANE FOOD CARRIER TROLLIES (N.I.C.)
10. 300 SERIES (CDS) AWMAC'S STANDARD - 300 WALL HUNG CABINET (762Hx1200Wx610D) TOP OF CABINET TO ALIGN WITH TOP OF ADJACENT 400/500 SERIES CABINETS.
11. NOT IN CONTRACT AREAS ARE OCCUPIED DURING CONSTRUCTION AND REQUIRE TO BE ACCESSIBLE. COORDINATE ACCESSIBILITY WITH DCC REPRESENTATIVE, FOR TEMPORARY SHUT DOWNS, ETC.
12. PHASED CONSTRUCTION/OCCUPANCY FOR THIS ROOM IS REQUIRE. COORDINATE PHASING WITH DCC REPRESENTATIVE.
13. (N.I.C.) A/V EQUIPMENT. COORDINATE POWER, COMMS AND DATA REQUIREMENTS WITH OTHER DISCIPLINES AND DCC A/V DESIGNER. PROVIDE BACKING WITHIN WALLS TO SUIT.

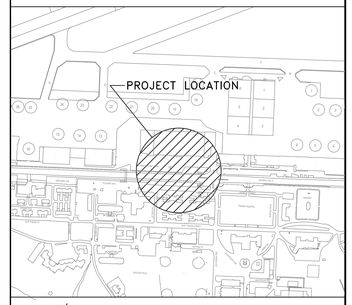
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



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ONTARIO ASSOCIATION OF ARCHITECTS
ROBERT PHILIP HUGH MARTIN
LICENCE 5672

SCALE | ÉCHELLE 1 : 100 (2 0 2 4 6m)

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER: ARCHITECTURAL
DATE: 2025/03/20

SUBJECT | SUJET
SECOND FLOOR
NEW CONSTRUCTION PLAN
AREA 'C'

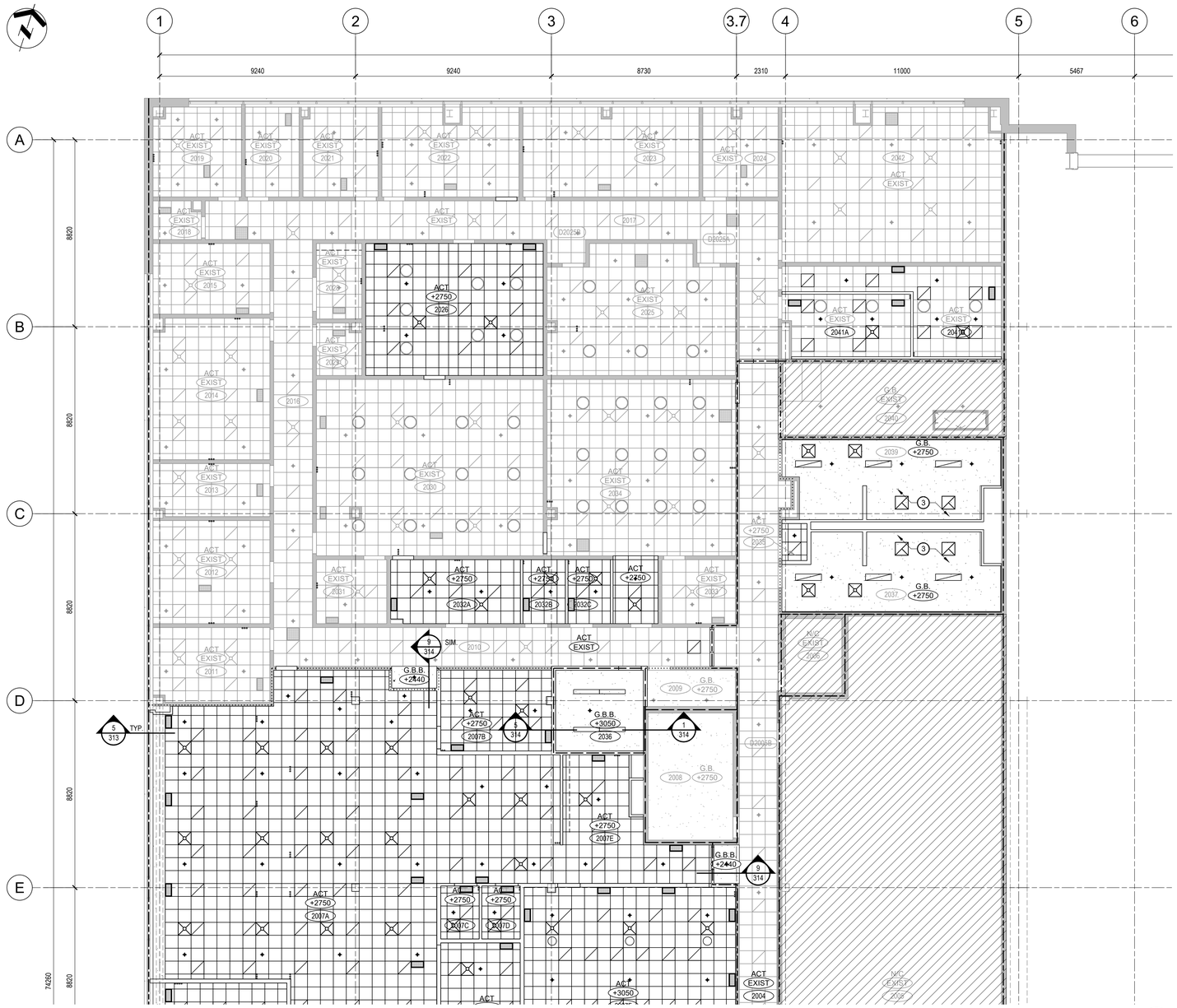
PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: T.H.	XX | XX: X.X.	DES O | AGENT CONC: S.CHINNATAMBY
DRAWN | DESSINÉ: P.L.		PROJ MGR | GEST PROJ: S.CHINNATAMBY
CHECKED | VÉRIFIÉ		DES MGR | GEST CONC: X.X.
COORDINATION		FIRE | INCENDIE: CAPT. CAMPBELL

WBS NO. | NO. OTP: N.001755.03
PF NO. | NO. DP: PF 500006755
DWG. NO. | NO. DESSIN: L-T81-3019/2- 307

Canada

BORDER LAST UPDATED: 2012-04-01

Z:\Projects\2019\19179_P_DCC_Hangar6_FitUp\03_CADD\01_Current_Active\02_Sheets\307 New construction plan - C.dwg
2025/Mar/28, 2:43pm mackenzie.mclean B1 1000 x 707_E



SECOND FLOOR NEW CONSTRUCTION RCP - AREA 'A'

SCALE: 1:100

1 / 308

RCP NOTES (A308, A309 & A310)

1. CONTROL JOINT
2. SECURED GYPSUM CEILING ENCLOSE ATTACK SIDE OF CEILING WITH FLATTEND DIAMOND METAL MESH (SECURED WITH RIVETS OR WELDS) MATCH CONSTRUCTION OF 'W2' PARTITION ASSEMBLY IN HORIZONTAL PLANE.
3. PROVIDE BLOCKING WITHIN CEILING CAVITY FOR TOILET STALL PARTITIONS.

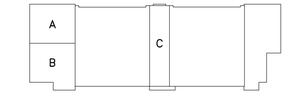
ONTARIO ASSOCIATION OF ARCHITECTS
ROBERT PHILIP HUGH MARTIN
LICENCE
5672

LEGEND

- LIMITED SCOPE OF WORK
- SECURE WALLS
- 0HR FRR PARTITION
- 1HR FRR PARTITION
- 2HR FRR PARTITION
- 3HR FRR PARTITION
- (#) CONSTRUCTION NOTES
- (000) EXISTING - ROOM IDENTIFICATION
- (000) NEW - ROOM IDENTIFICATION
- (TYPE / AFF) NEW - FINISH IDENTIFICATION
- EXISTING - PARTITION
- NEW - PARTITION
- EXISTING 610X610 L.I.T. CEILING
- NEW - 610X610 L.I.T. CEILING
- GYPSUM BOARD CEILING
- EXISTING - MECHANICAL RETURN
- NEW - MECHANICAL RETURN
- EXISTING - MECHANICAL DIFFUSER
- NEW - MECHANICAL DIFFUSER
- NEW - MECHANICAL EXHAUST
- EXISTING - SPRINKLER HEAD
- NEW - SPRINKLER HEAD
- EXISTING - 2X2 LIGHT FIXTURE
- NEW - 2X2 LIGHT FIXTURE
- NEW - LED STRIP LIGHTING
- NEW - POT LIGHT
- EXISTING - LIGHT TUBE

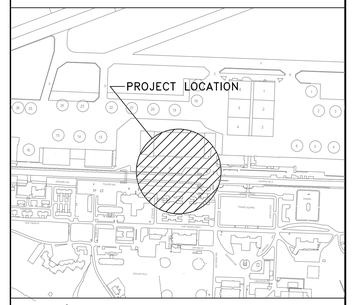
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



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SCALE | ÉCHELLE
1 : 100
2 0 2 4 6m

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER: ARCHITECTURAL
DATE: 2025/03/20

SUBJECT | SUJET
SECOND FLOOR
NEW CONSTRUCTION RCP
AREA 'A'

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: T.H.	XX | XX: X.X.	DES O | AGENT CONC: S.CHINNATAMBY
DRAWN | DESSINÉ: P.L.		PROJ MGR | GEST PROJ: S.CHINNATAMBY
CHECKED | VÉRIFIÉ		DES MGR | GEST CONC: X.X.
COORDINATION		FIRE | INCENDIE: CAPT. CAMPBELL

WBS NO. | NO. OTP: N.001755.03
PF NO. | NO. DP: PF 500006755
DWG. NO. | NO. DESSIN: L-T81-3019/2- 308

Canada

BORDER LAST UPDATED: 2012-04-01

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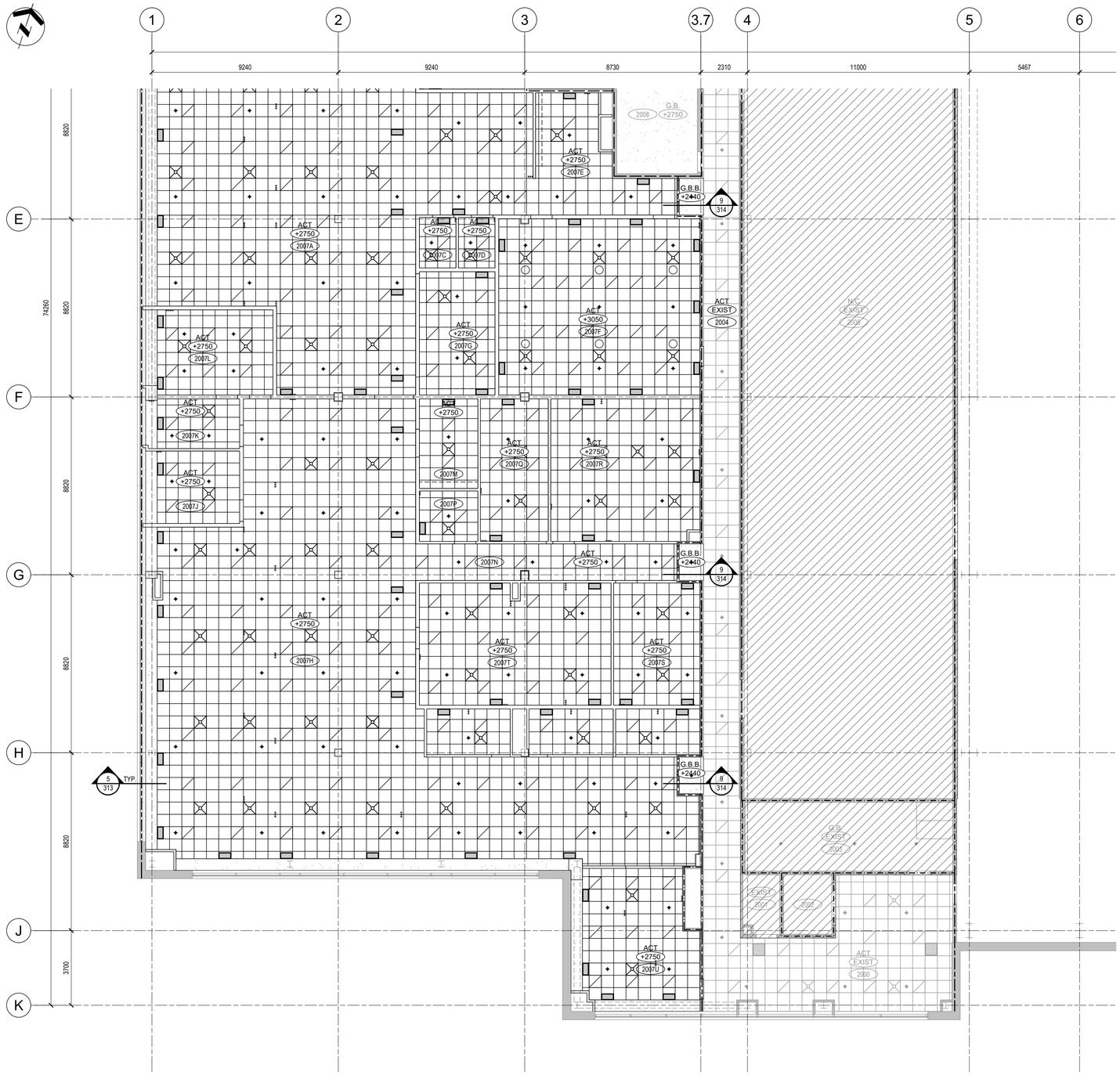
2025/Mar/28, 2:44pm



SECOND FLOOR NEW CONSTRUCTION RCP - AREA 'B'

SCALE: 1:100 — 1 / 309

RCP NOTES (A308, A309 & A310)

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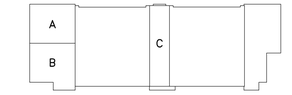
LEGEND

- LIMITED SCOPE OF WORK
- SECURE WALLS
- 0HR FRR PARTITION
- 1HR FRR PARTITION
- 2HR FRR PARTITION
- 3HR FRR PARTITION
- (#) CONSTRUCTION NOTES
- (000) EXISTING - ROOM IDENTIFICATION
- 000 NEW - ROOM IDENTIFICATION
- TYPE / AFF NEW - FINISH IDENTIFICATION
- EXISTING - PARTITION
- NEW - PARTITION
- EXISTING 610X610 L.I.T. CEILING
- NEW - 610X610 L.I.T. CEILING
- GYPSUM BOARD CEILING
- EXISTING - MECHANICAL RETURN
- NEW - MECHANICAL RETURN
- EXISTING - MECHANICAL DIFFUSER
- NEW - MECHANICAL DIFFUSER
- NEW - MECHANICAL EXHAUST
- EXISTING - SPRINKLER HEAD
- NEW - SPRINKLER HEAD
- EXISTING - 2X2 LIGHT FIXTURE
- NEW - 2X2 LIGHT FIXTURE
- NEW - LED STRIP LIGHTING
- NEW - POT LIGHT
- EXISTING - LIGHT TUBE

ONTARIO ASSOCIATION OF ARCHITECTS
ROBERT PHILIP PUSH MARTIN
LICENCE 5672

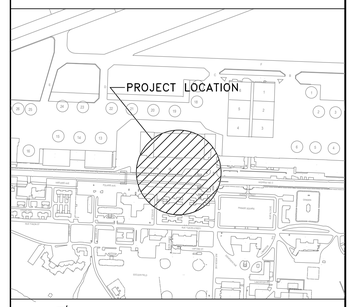
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

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NO.	DATE	REVISION	APPR.
5	2025/02/24	ISSUED FOR TENDER r.1	
4	2020/09/24	ISSUED FOR TENDER	T.H.
3	2020/08/19	ISSUED FOR 100% SUBMISSION	T.H.
2	2020/05/19	ISSUED FOR 90% SUBMISSION	T.H.
1	2020/03/26	ISSUED FOR 60% SUBMISSION	T.H.

SCALE | ÉCHELLE 1 : 100 (2 0 2 4 6m)

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
ARCHITECTURAL	2025/03/20

SUBJECT | SUJET
SECOND FLOOR
NEW CONSTRUCTION RCP
AREA 'B'

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ T.H.	XX | XX X.X.	DES O | AGENT CONC S.CHINNATAMBY
DRAWN | DESSINÉ P.L.		PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED | VÉRIFIÉ		DES MGR | GEST CONC X.X.
COORDINATION		FIRE | INCENDIE CAPT. CAMPBELL

WBS NO. | NO. OTP N.001755.03
PF NO. | NO. DP PF 500006755
DWG. NO. | NO. DESSIN L-T81-3019/2- 309

Canada

BORDER LAST UPDATED: 2012-04-01

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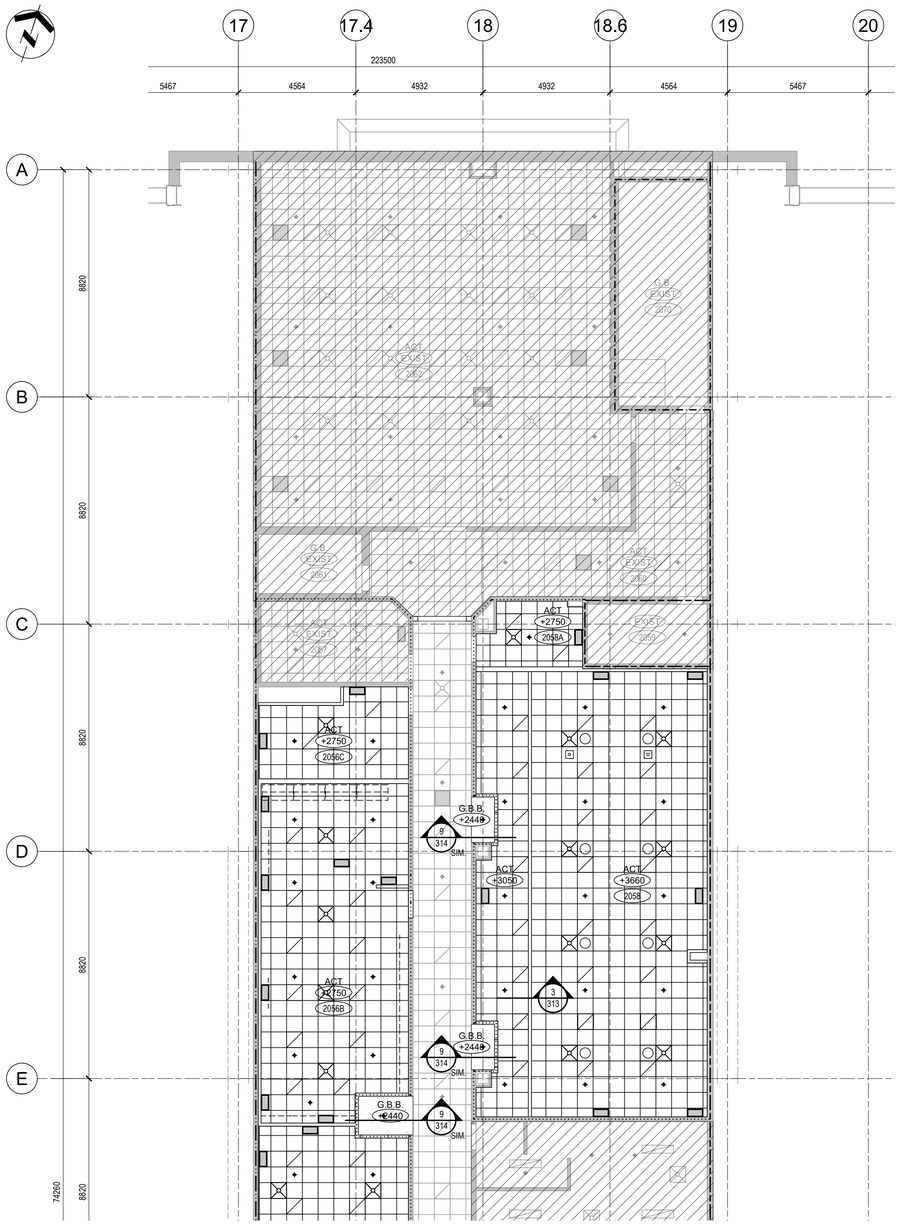
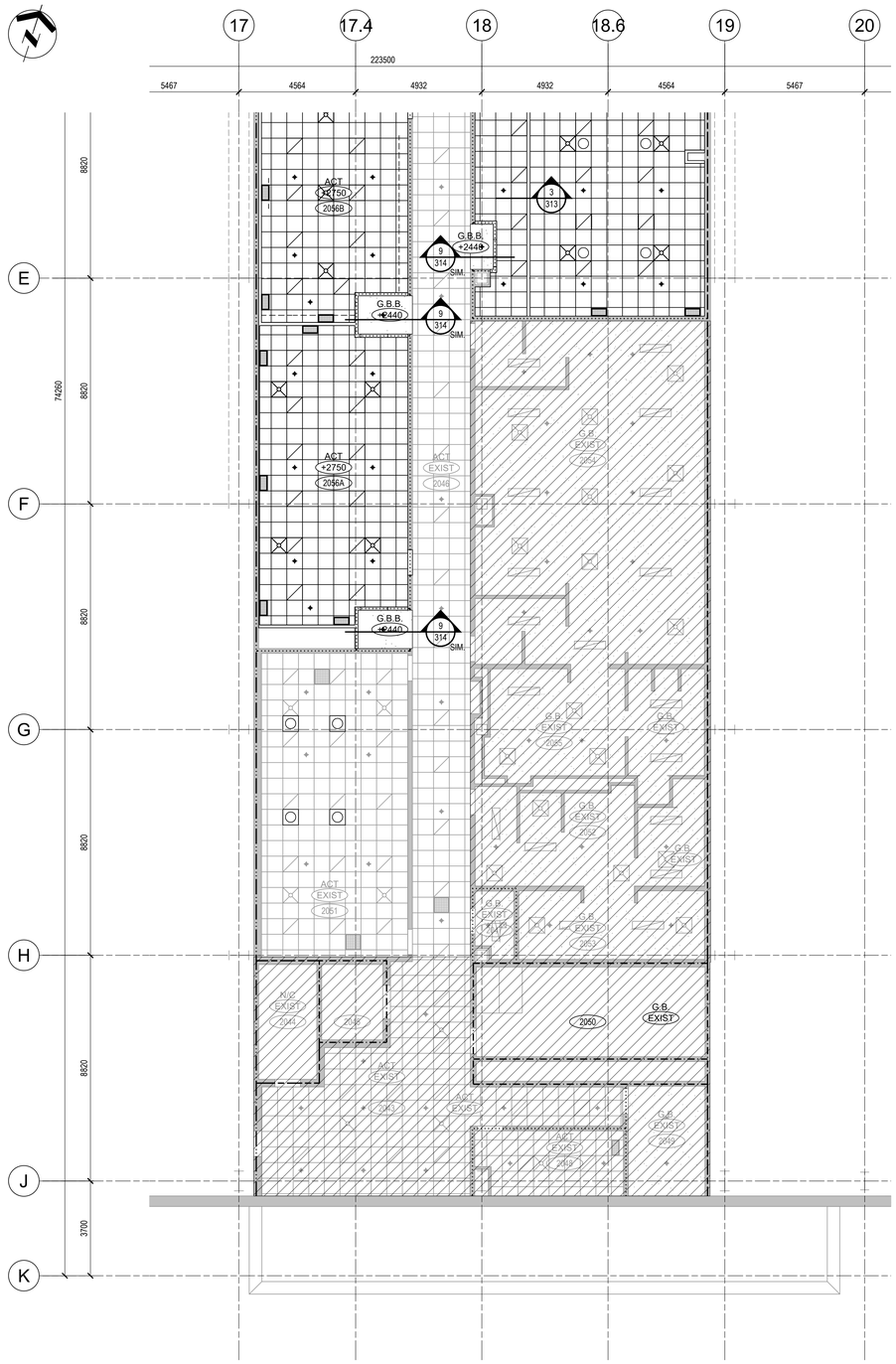


SECOND FLOOR NEW CONSTRUCTION RCP - AREA 'C'

SCALE: 1:100

2
310



SECOND FLOOR NEW CONSTRUCTION RCP - AREA 'C'

SCALE: 1:100

1
310

RCP NOTES (A308, A309 & A310)

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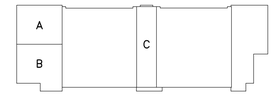
ONTARIO ASSOCIATION OF ARCHITECTS
ROBERT PHILIP PUGH MARTIN
LICENCE
5672

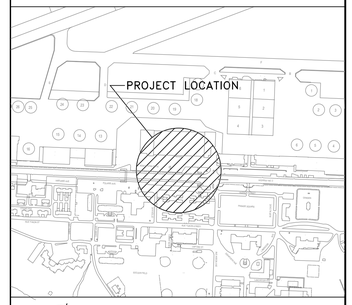
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



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SCALE | ÉCHELLE
1 : 100
2 0 2 4 6m

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
ARCHITECTURAL	2025/03/20

SUBJECT | SUJET
SECOND FLOOR
NEW CONSTRUCTION RCP
AREA 'C'

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ	XX | XX	DES O | AGENT CONC
T.H.	X.X.	S.CHINNATAMBY
DRAWN | DESSINÉ		PROJ MGR | GEST PROJ
P.L.		S.CHINNATAMBY
CHECKED | VÉRIFIÉ		DES MGR | GEST CONC
		X.X.
COORDINATION		FIRE | INCENDIE
		CAPT. CAMPBELL

WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

DWG. NO. | NO. DESSIN
L-T81-3019/2- 310

Canada

BORDER LAST UPDATED: 2012-04-01

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B1 1000 x 707_E
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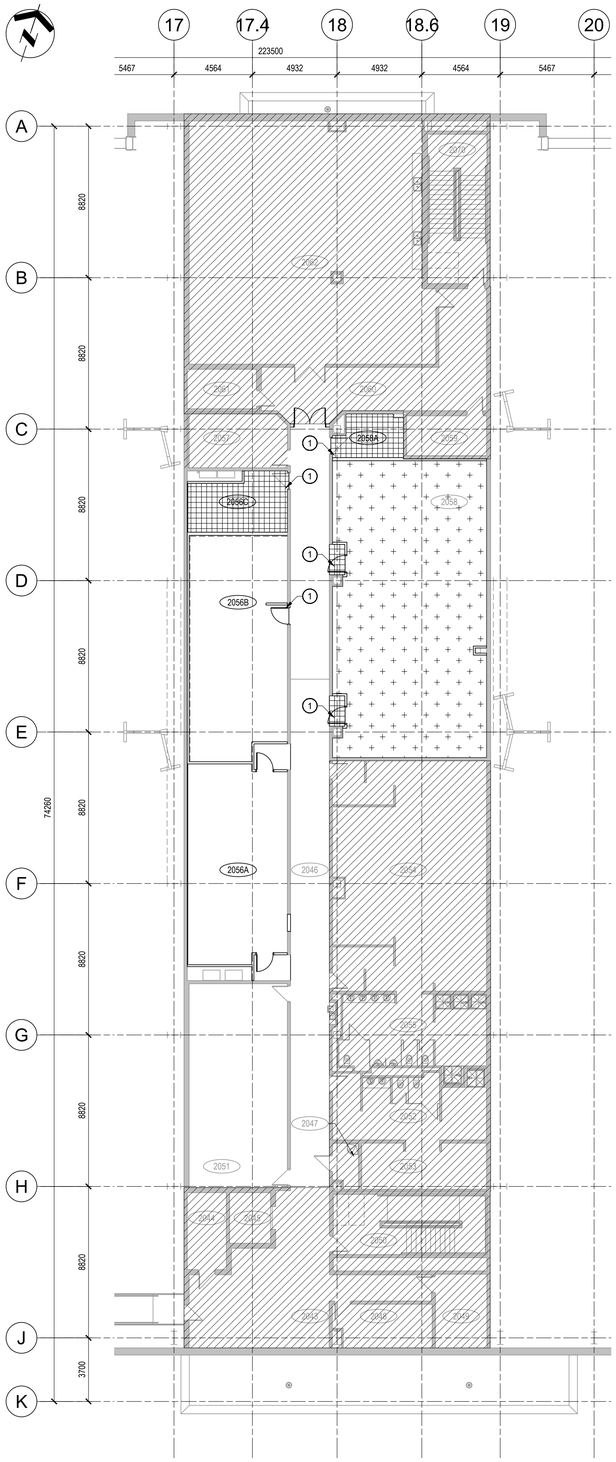
SECOND FLOOR FINISHES PLAN - AREAS 'A & B'

SCALE: 1:150

2
311



SECOND FLOOR FINISHES PLAN - AREA 'C'

SCALE: 1:150

1
311

NOTES

GENERAL NOTES
ALL FINISHES ARE TO BE INSTALLED CENTER WITHIN SPACE WITH EQUAL DISTANCE TILES AT EDGES.

(1) ALIGN NEW VCT JOINTS WITH ADJACENT EXISTING VCT.

(2) NEW 'NO WAX' ESD FLOORING TILE.

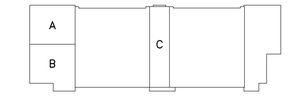
LEGEND

- LIMITED SCOPE OF WORK
- (#) NEW - CONSTRUCTION NOTES
- (000) NEW - ROOM IDENTIFICATION
- EXISTING - PARTITION
- NEW - PARTITION
- EXISTING FLOOR FINISHES - TO REMAIN
- NEW - CARPET TILE
- NEW - VCT
- NEW - ESD
- NEW - 'NO WAX TILE' IN ESD FLOOR ONE TILE BACK FROM DOOR THRESHOLD
- NEW - PORCELAIN TILE
- START POINT
- FINISHES METAL TRANSITION STRIP

ONTARIO ASSOCIATION OF ARCHITECTS
ROBERT FRED HUGH MARTIN
LICENCE 5472

Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



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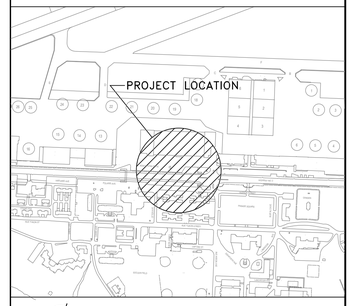
Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



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SCALE | ÉCHELLE
1 : 150
3 0 3 6 9m

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
ARCHITECTURAL	2025/03/20

SUBJECT | SUJET
SECOND FLOOR FINISHES PLAN

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ	XX | XX	DES O | AGENT CONC
T.H.	X.X.	S.CHINNATAMBY
DRAWN | DESSINÉ		PROJ MGR | GEST PROJ
P.L.		S.CHINNATAMBY
CHECKED | VÉRIFIÉ		DES MGR | GEST CONC
		X.X.
COORDINATION		FIRE | INCENDIE
		CAPT. CAMPBELL

WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

DWG. NO. | NO. DESSIN
L-T81-3019/2- 311

Canada

Sheet 11 of 12

BORDER LAST UPDATED: 2012-04-01

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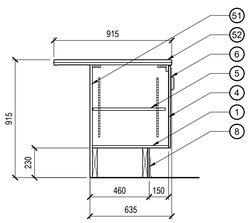

MILLWORK SECTION
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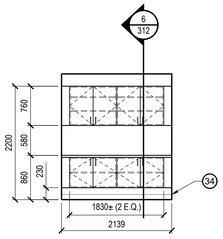
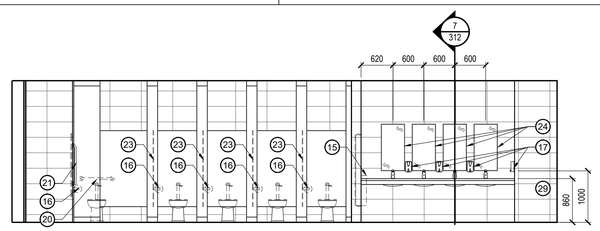


INT. ELEVATION
SCALE: 1:50 — 15 / 312



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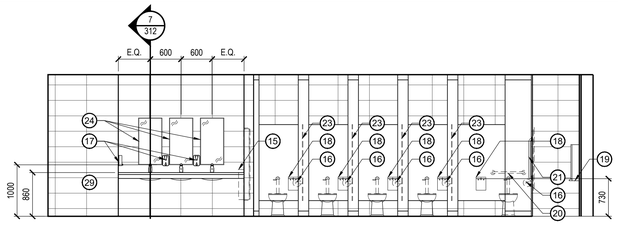

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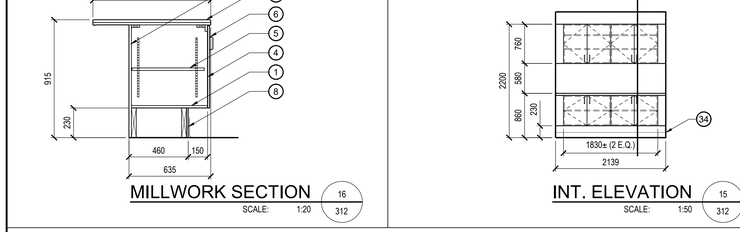
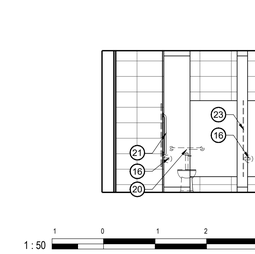
SCALE: 1:50 — 13 / 312



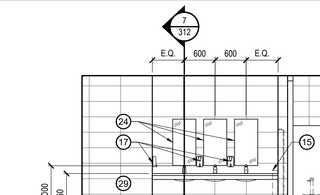
1 : 50

INT. MILLWORK ELEV.
SCALE: 1:50 — 11 / 312

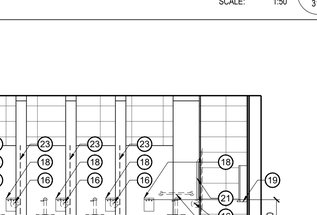


INT. MILLWORK ELEV.
SCALE: 1:50 — 10 / 312

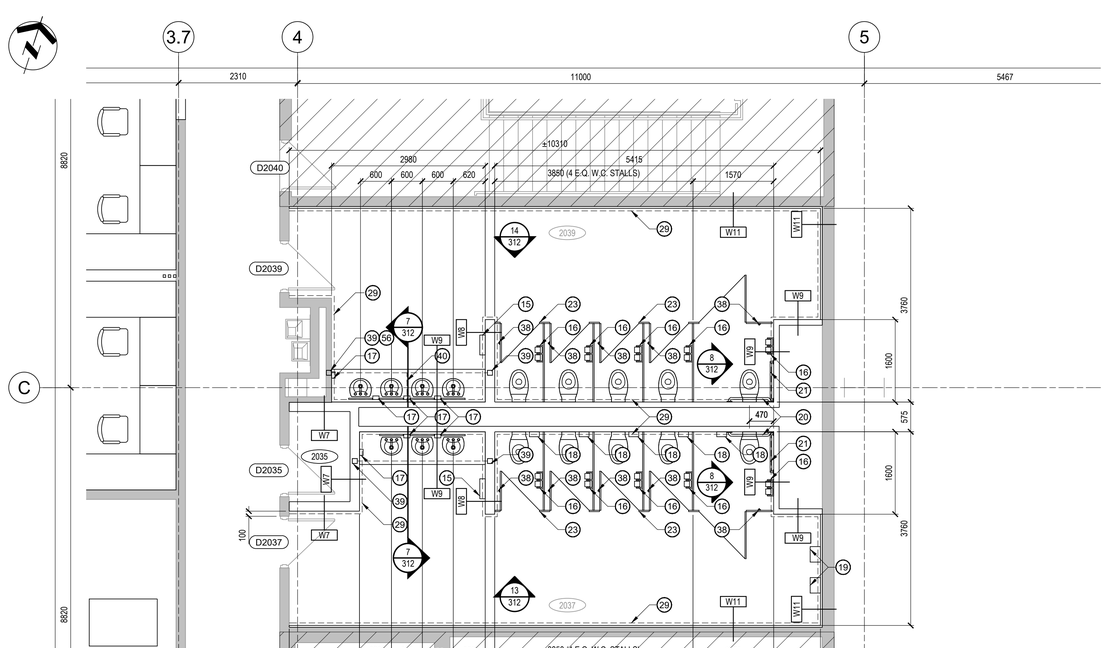
INT. MILLWORK ELEV.
SCALE: 1:50 — 9 / 312



INT. MILLWORK ELEV.
SCALE: 1:50 — 5 / 312

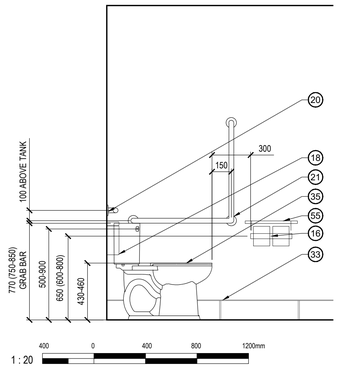


INT. MILLWORK ELEV.
SCALE: 1:50 — 4 / 312



1 : 50

DETAILED PLAN
SCALE: 1:50 — 12 / 312



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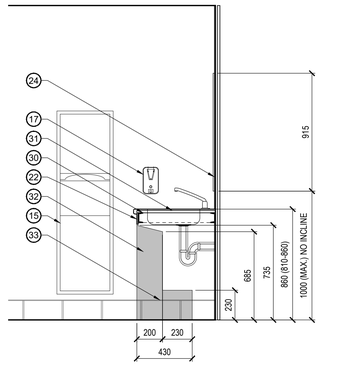
WATER CLOSET SECTION
SCALE: 1:20 — 8 / 312



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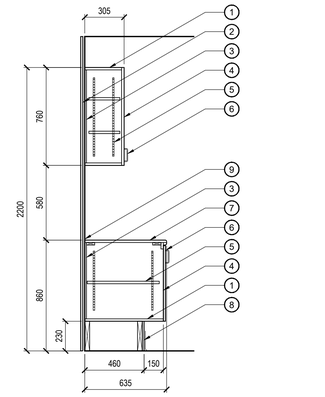
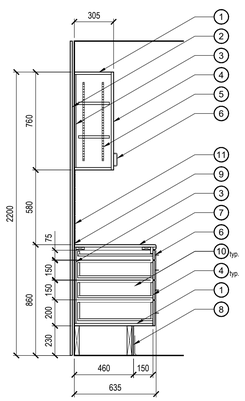


MILLWORK SECTION
SCALE: 1:20 — 6 / 312



MILLWORK SECTION
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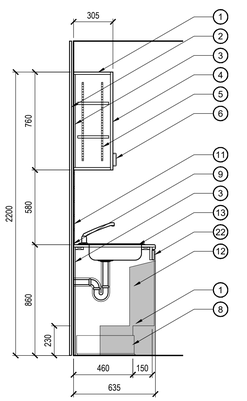

MILLWORK SECTION
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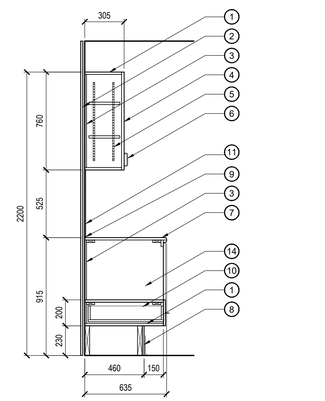

MILLWORK SECTION
SCALE: 1:20 — 1 / 312

MILLWORK NOTES

1. 19mm P-LAM CABINET
2. 19mm PLYWOOD BLOCKING TO SUIT.
3. 13mm CABINET BACKING
4. 19mm P-LAM DOORS & DRAWER FRONTS
5. ADJUSTABLE 19mm SHELF(S) WITH FULL RECESSED PILLASTERS C/W CLIPS & EDGE BANDING REINFORCEMENT STRIP
6. D-PULLS
7. COUNTER TOP WITH RADIUS FRONT EDGE COLOUR AND PATTERN TBD.
8. P-LAM FINISHED BASE C/W RUBBER BASE
9. SILICONE CAULK JOINT COUNTER EDGE @ ABUTTING WALL. COLOUR TBD
10. DRAWER UNITS ON FULL EXTENSION SLIDES C/W SELF CLOSE FUNCTION.
11. CERAMIC TILE BACKSPLASH. SEE ELEVATIONS FOR EXTENTS.
12. REQUIRED CLEARANCES BELOW AT SINK. SEE DIMENSIONS ON DETAIL 7/312.
13. COUNTER TOP WITH RADIUS FRONT EDGE COLOUR AND PATTERN TBD C/W STAINLESS STEEL SINK WITH TRIM. SEE MECHANICAL
14. MICROWAVE STAND. INTERIOR FINISH TO MATCH EXTERIOR P-LAM SELECTION.
15. SEMI-RECESSED PAPER TOWEL/WASTE RECEPTACLE.
16. TOILET PAPER DISPENSER.
17. WALL MOUNTED SOAP DISPENSER
18. NAPKIN DISPOSAL.
19. NAPKIN DISPENSER
20. 600mm LONG GRAB BAR C/W PLYWOOD BACKING TO MANUFACTURERS RECOMMENDATIONS.
21. 760x760mm L-SHAPED GRAB BAR C/W PLYWOOD BACKING TO MANUFACTURERS RECOMMENDATIONS.
22. FASCIA - TO MATCH DOOR FRONTS
23. TOILET PARTITIONS. PROVIDE BACKING AND SUPPORT PER MANUFACTURERS INSTRUCTIONS.
24. VANITY MIRROR
25. WALL BEYOND
26. MICROWAVE (NIC)
27. FRIDGE (NIC)
28. KITCHENETTE SINK. SEE MILLWORK DETAILS. COORDINATE WITH MECH.
29. FULL HEIGHT WALL TILE
30. SHOP PRIMED 76x38x6 STEEL C-CHANNEL CONTINUOUS PERIMETER COUNTER SUPPORT FRAMING. MOUNTED TO HSS SUPPORT(S) IN ADJACENT WALLS & PLYWOOD BACKING. PAINTED TO MATCH ADJACENT FINISHES.
31. SOLID SURFACE COUNTER ON 19mm MOISTURE RESISTANT PLYWOOD ON PAINTED STEEL FRAMING C/W UNDER MOUNT SINK
32. BARRIER FREE SINK CLEARANCE REQUIREMENTS.
33. 150mm HIGH CERAMIC TILE BASE
34. RUBBER BASE
35. ACCESSIBLE WATER CLOSET. SEE MECH.
36. EXTENT OF BACKSPLASH
37. ELECTRICAL OUTLET. COORDINATE WITH ELEC.
38. COAT HOOKS
39. 102x102x6mm SHOP PRIMED HSS SUPPORT POST C/W BASEPLATE MECHANICALLY FASTENED TO EXISTING CONCRETE FLOORING.
40. INTERMEDIATE SHOP PRIMED STEEL COUNTER BRACING. AS REQUIRED. PAINTED TO MATCH ADJACENT FINISHES
41. 19mm FIXED SHELF
42. 400 SERIES (CDS) AWMAC'S STANDARD - 400 TALL STORAGE CABINET (2200Hx1200Wx610D)
43. 300 SERIES (CDS) AWMAC'S STANDARD - 300 WALL HUNG CABINET (762Hx1200Wx610D) TOP OF CABINET TO ALIGN WITH TOP OF ADJACENT 400/500 SERIES CABINETS.
44. FILLER PANEL TO MATCH EXPOSED CABINET FINISH
45. 400 SERIES (CDS) AWMAC'S STANDARD - 402 TALL STORAGE CABINET (2200Hx1200Wx610D)
46. WASHING MACHINE. PURCHASED AND INSTALLED BY CONTRACTOR
47. DRYER. PURCHASED AND INSTALLED BY CONTRACTOR
48. STAINLESS STEEL SINK - SINGLE
49. STAINLESS STEEL SINK - DOUBLE
50. COMMERCIAL DISH WASHER. PURCHASED BY CLIENT INSTALLED BY CONTRACTOR
51. 19mm CABINET BACKING BACKSIDE FINISH TO MATCH EXTERIOR P-LAM FINISH.
52. STAINLESS STEEL COUNTER TOP ON 2 LAYERS OF 19mm PLYWOOD
53. 1220x2440mm FRP PANELS
54. 1220mm LONG STAINLESS STEEL STORAGE AND EQUIPMENT TABLE. PURCHASED BY CLIENT INSTALLED BY CONTRACTOR.
55. STAINLESS STEEL SHELF. 200mm x 400mm MINIMUM.
56. PATCH AND REPAIR EXISTING WALL TO SUIT NEW VANITY SUPPORT.

ONTARIO ASSOCIATION OF ARCHITECTS
ROBERT FRED HUGH MARTIN
LICENCE 5472

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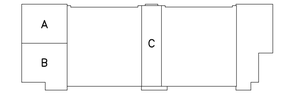
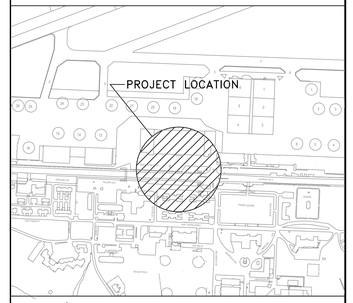
LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

GENERAL NOTES

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8. PROVIDE PROTECTION TO ALL "EXISTING TO REMAIN" MATERIALS.
9. REPAIR, PATCH AND MAKE GOOD ALL EXISTING FINISHES AND SURFACES AFFECTED BY WORK.
10. MAKE ALL EXISTING SURFACES, IN AREA OF WORK, READY TO RECEIVE NEW FINISH.
11. ALL ACCESS HATCHES ARE TO BE PROVIDED BY THE MECHANICAL/ELECTRICAL CONTRACTOR TO SUIT. PROVIDE SIZE AND LOCATIONS TO CONSULTANTS FOR REVIEW AND COORDINATION, PRIOR TO INSTALLATION.
12. SECURITY EQUIPMENT REMOVAL AND REINSTATEMENT (BY OWNER). ACCESS AND LOCATIONS TO BE COORDINATED, PRIOR TO ENCLOSING CEILINGS/WALLS.
13. ALL CORING, SAW CUTS AND PENETRATIONS THROUGH STRUCTURE TO BE SCANNED, REVIEWED & APPROVED BY LICENSED STRUCTURAL ENGINEER.
14. CONTRACTOR TO ENSURE ALL FIRE SEPARATIONS ARE MAINTAINED ACCORDING TO SPECIFIED RATINGS.

NO.	DATE	REVISION	APPR.
5	2025/02/24	ISSUED FOR TENDER r.1	
4	2020/09/24	ISSUED FOR TENDER	T.H.
3	2020/08/19	ISSUED FOR 100% SUBMISSION	T.H.
2	2020/05/19	ISSUED FOR 90% SUBMISSION	T.H.
1	2020/03/26	ISSUED FOR 60% SUBMISSION	T.H.

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER: ARCHITECTURAL
DATE: 2025/03/20

SUBJECT | SUJET
DETAILED PLANS
INTERIOR ELEVATION
MILLWORK DETAILS

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: T.H.	XX | XX: X.X.	DES O | AGENT CONC: S.CHINNATAMBY
DRAWN | DESSINÉ: P.L.		PROJ MGR | GEST PROJ: S.CHINNATAMBY
CHECKED | VÉRIFIÉ		DES MGR | GEST CONC: X.X.
COORDINATION		FIRE | INCENDIE: CAPT. CAMPBELL

WBS NO. | NO. OTP: N.001755.03
PF NO. | NO. DP: PF 500006755
DWG. NO. | NO. DESSIN: L-T81-3019/2- 312

Canada

BORDER LAST UPDATED: 2012-04-01

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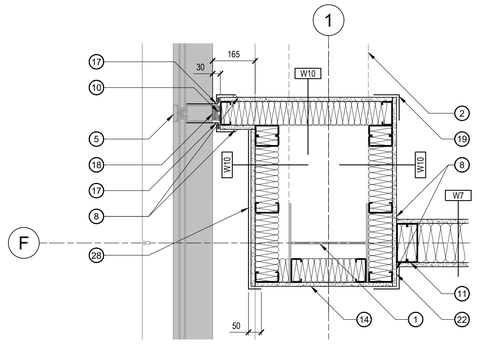
RESERVED

SCALE:

12 / 313



PLAN DETAIL

SCALE: 1:10

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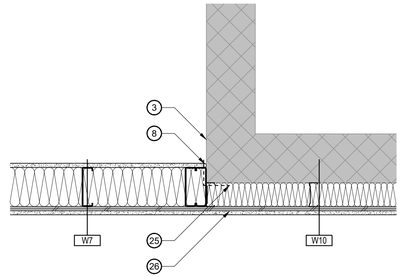

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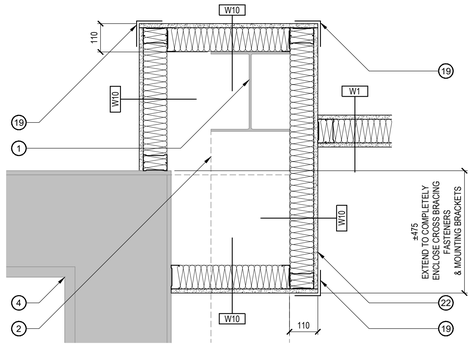

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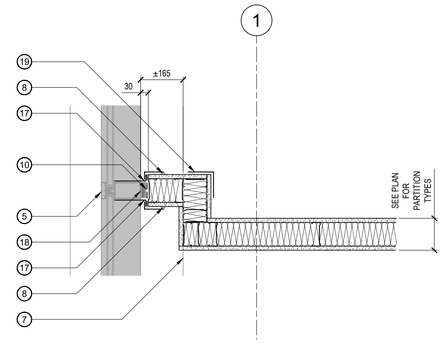

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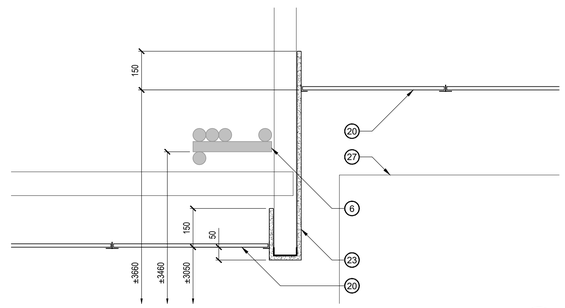

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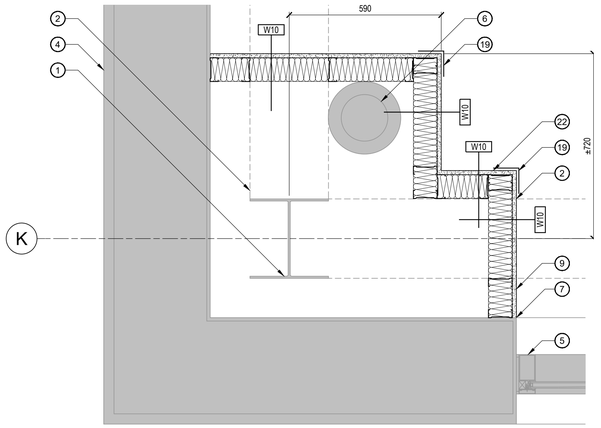

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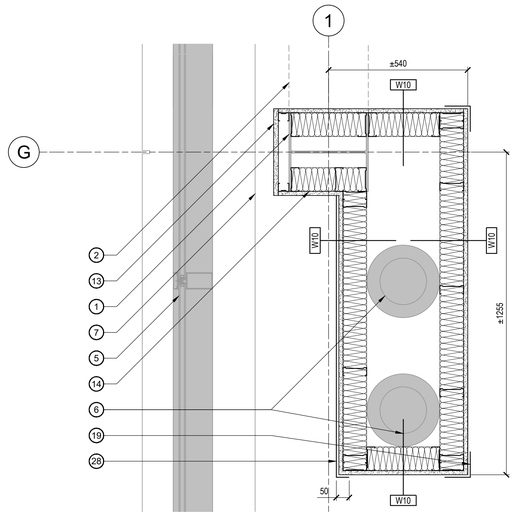

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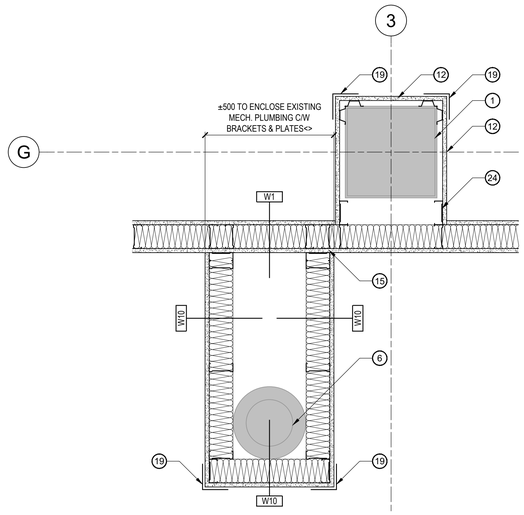

PLAN DETAIL

SCALE: 1:10

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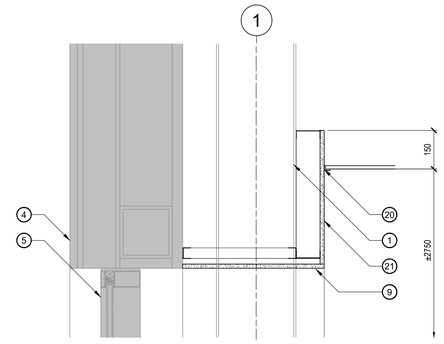
RESERVED

SCALE:

9 / 313



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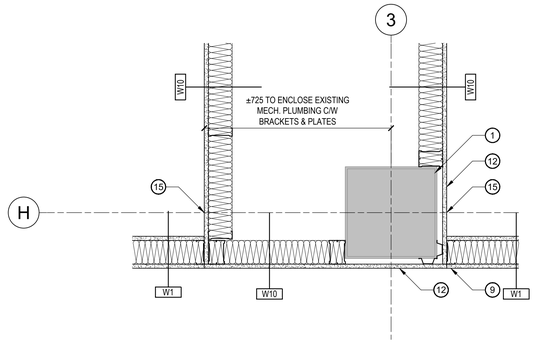

PLAN DETAIL

SCALE: 1:10

1 / 313

NOTES

1. EXISTING STEEL STRUCTURE - TO REMAIN
2. EXISTING STRUCTURAL CROSS BRACING - TO REMAIN. ACOUSTIC CAULK WHERE IT PENETRATES A PARTITION.
3. EXISTING CONCRETE MASONRY UNIT PARTITION - TO REMAIN
4. EXISTING EXTERIOR WALL ASSEMBLY - TO REMAIN
5. EXISTING ALUMINUM FRAMED GLAZING UNIT - TO REMAIN
6. EXISTING MECHANICAL/ELECTRICAL SYSTEMS - TO REMAIN
7. EXISTING GYPSUM SILL - TO REMAIN
8. ACOUSTIC CAULK
9. 16mm TYPE 'X' GYPSUM BOARD. ALIGN WITH ADJACENT INTERIOR FINISHES
10. PEEL & STICK LAP / ISOLATION FROM DISSIMILAR MATERIALS
11. 152mm STRUCTURAL STEEL STUD FRAMING C/W DEFLECTION HEAD. SEE STRUCTURAL.
12. 16mm TYPE 'X' GYPSUM BOARD ON 22mm FURRING CHANNEL SPACED @ 400mm O.C.
13. 16mm TYPE 'X' GYPSUM BOARD ON 41mm METAL STUDS SPACED @ 400mm O.C.
14. PROVIDE 'W10' PARTITION WITHIN WEB OF EXISTING STEEL STUDS.
15. PROVIDE CONTINUOUS PARTITION CONSTRUCTION. ABUT/ALIGN W/ ADJACENT PARTITION .
16. RESERVED
17. NEW PRE-FINISHED ALUMINUM METAL FLASHING. FLASHING COLOUR TO MATCH EXISTING MULLIONS. FLASHING TO FOLLOW PROFILE OF EXISTING MULLION WHEN WITHIN FRAME.
18. FILL VOID WITH ACOUSTIC BATT INSULATION
19. NEW STAINLESS STEEL CORNER GUARD.
20. NEW L.I.T. CEILING
21. NEW SEISMICALLY BRACED PERIMETER GYPSUM BOARD BULKHEAD STUD FRAMING TO BE @ 400mm O.C.. BULKHEAD TO ALIGN WITH EXISTING WINDOW HEAD & CONTINUE VERTICAL SECTION 150mm ABOVE NEW FINISHED CEILING
22. PARTITION TO ALIGN WITH BULKHEAD ABOVE
23. NEW SEISMICALLY BRACED BULKHEAD DROP. 92mm STUDS @ 400mm O.C. TO U/S DECK. CONTINUE 16mm GYPSUM BOARD (BOTH SIDES) 150mm ABOVE FINISHED CEILING.
24. STUD WALL FRAMING TO SUIT VOID. SUPPORT OF ADJACENT ASSEMBLIES
25. EXISTING CORNER GUARD TO BE REMOVED AND TURNED OVER TO OWNER.
26. PLYWOOD BACKING TO FULL LENGTH OF WALL TO SUIT NEW A/V EQUIPMENT.
27. A/V EQUIPMENT BEYOND.
28. NEW PRE-FINISHED STAINLESS STEEL FULL HEIGHT CLOSURE.

ONTARIO ASSOCIATION OF ARCHITECTS
ROBERT FRED HUGH MARTIN
LICENCE 5472

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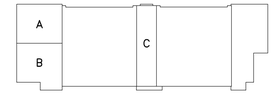
LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



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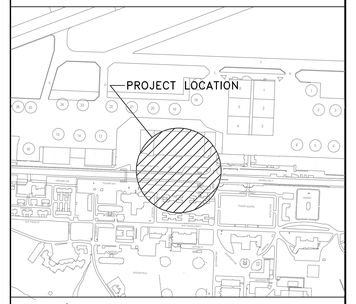
Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



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SCALE | ÉCHELLE 1 : 10 (200 0 200 400 600mm)

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
ARCHITECTURAL	2025/03/20

SUBJECT | SUJET
DETAILS

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ T.H.	XX | XX X.X.	DES O | AGENT CONC S.CHINNATAMBY
DRAWN | DESSINÉ P.L.		PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED | VÉRIFIÉ		DES MGR | GEST CONC X.X.
COORDINATION		FIRE | INCENDIE CAPT. CAMPBELL

WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

DWG. NO. | NO. DESSIN L-T81-3019/2- 313

Canada

BORDER LAST UPDATED 2012-04-01
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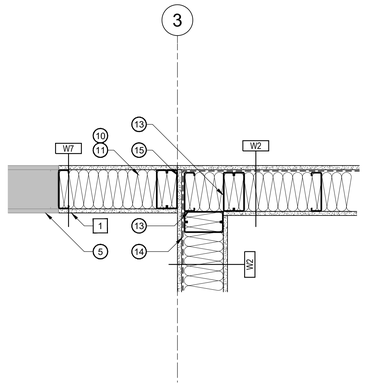
RESERVED

SCALE:

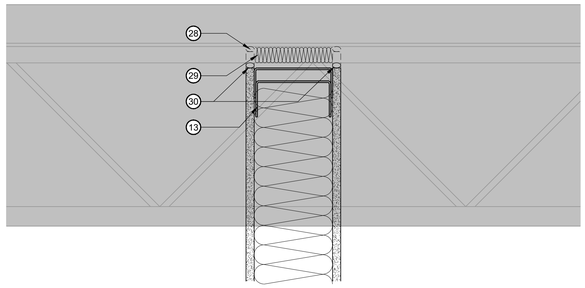
12
314



PLAN DETAIL

SCALE: 1:10

8
314



TOP OF FULL HEIGHT WALL

SCALE: 1:5

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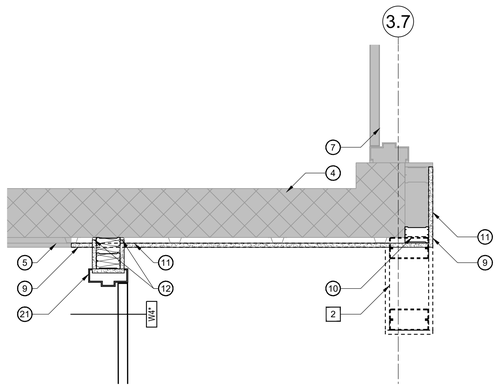
314



PLAN DETAIL

SCALE: 1:10

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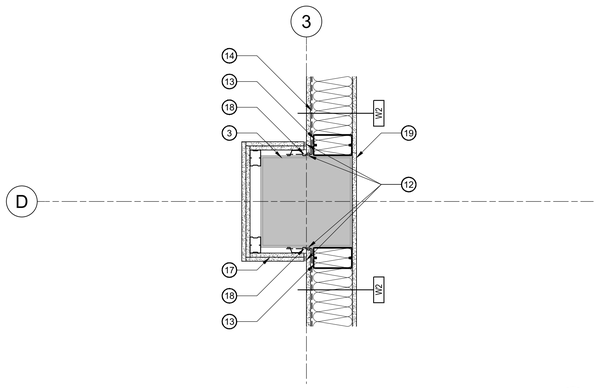

PLAN DETAIL

SCALE: 1:10

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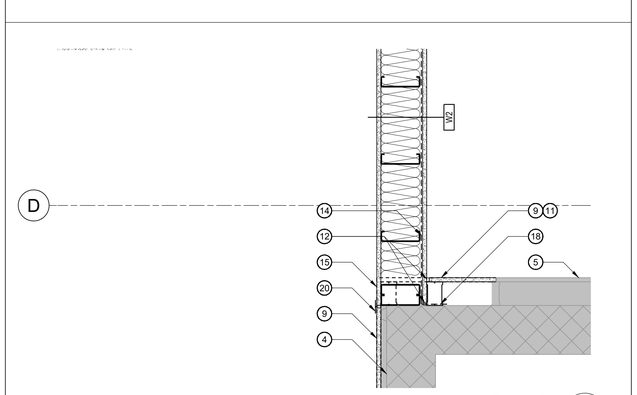
314



PLAN DETAIL

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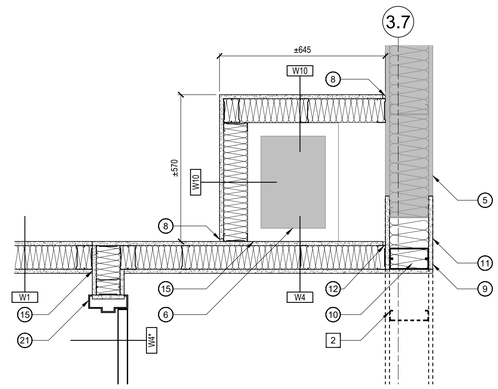

PLAN DETAIL

SCALE: 1:10

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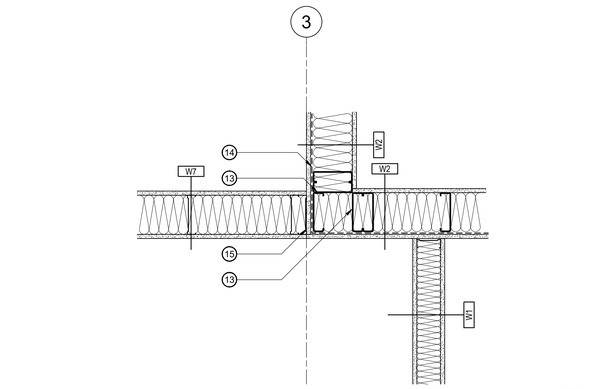
314



PLAN DETAIL

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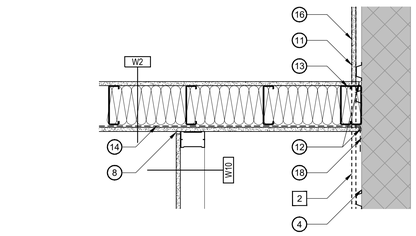

PLAN DETAIL

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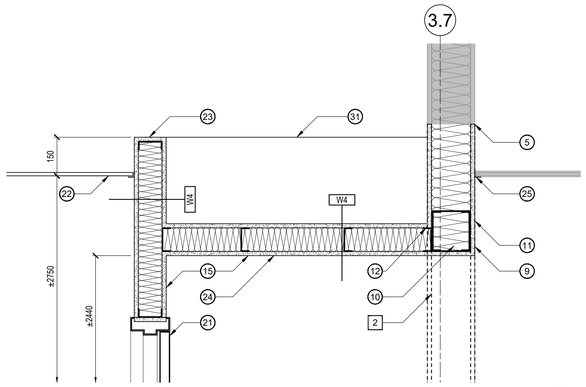

SECTION DETAIL

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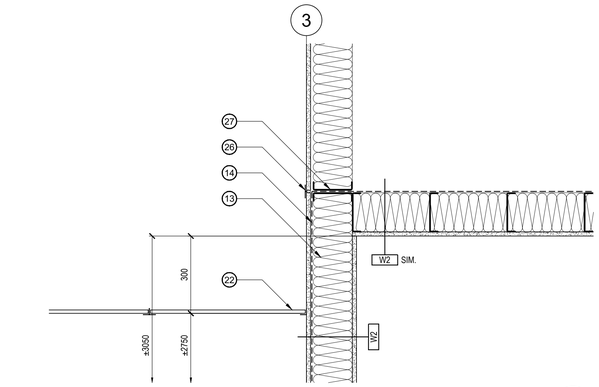

SECTION DETAIL

SCALE: 1:10

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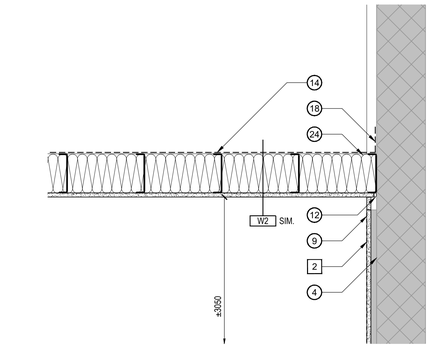


SECTION DETAIL

SCALE: 1:10

1
314

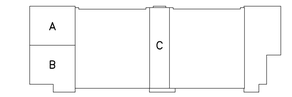
NOTES

1. EXISTING PARTITION TO BE DEMOLISHED AS REQUIRED TO MAINTAIN CONTINUITY IN THE FIRE SEPARATION.
2. EXISTING PARTITION TO BE DEMOLISHED. COORDINATE EXTENT WITH DEMOLITION AND NEW CONSTRUCTION PLANS
3. EXISTING STEEL STRUCTURE - TO REMAIN
4. EXISTING CONCRETE MASONRY UNIT PARTITION - TO REMAIN
5. EXISTING INTERIOR PARTITION - TO REMAIN
6. EXISTING MECHANICAL/ELECTRICAL SYSTEMS - TO REMAIN
7. EXISTING DOOR, FRAME & HARDWARE - TO REMAIN
8. ACOUSTIC CAULK
9. 16mm TYPE 'X' GYPSUM BOARD. ALIGN WITH ADJACENT INTERIOR FINISHES
10. PROVIDE NEW STUD FRAMING TO SUIT PARTITION REPAIRS. MODIFICATIONS TO EXISTING STRUCTURAL STUD FRAMING, TO BE REVIEW, STAMPED AND SIGNED OFF BY DRYWALL CONTRACTORS STRUCTURAL P.ENG..
11. EXISTING GYPSUM BOARD PARTITION TO BE REMOVED TO SUIT NEW WALL TIE-INS. PROVIDE NEW FRAMING AS REQUIRED TO MAKE GOOD EXISTING ASSEMBLIES.
12. CONTINUOUS PERIMETER FIRE CAULKING.
13. 152mm STRUCTURAL STEEL STUD FRAMING C/W DEFLECTION HEAD. SEE STRUCTURAL. (COOR. W/ RCMP SECURITY STANDARDS FOR SECURE ROOM CONSTRUCTION REQUIREMENTS)
14. MAINTAIN CONTINUOUS SECURITY MESH ON ATTACK SIDE OF SPACE.
15. PROVIDE CONTINUOUS PARTITION CONSTRUCTION. ABUT/ALIGN W/ ADJACENT PARTITION .
16. 16mm TYPE 'X' GYPSUM BOARD ON 22mm FURRING CHANNEL SPACED @ 400mm O.C.
17. DOUBLE LAYER OF 16mm TYPE 'X' GYPSUM BOARD ON 22mm FURRINGS & 41mm METAL STUDS.
18. LAP & WELD METAL SECURITY MESH ONTO EXISTING STEEL COLUMNS / CONCRETE BLOCK. COORDINATE WITH RCMP SECURITY REQUIREMENTS FOR APPROVAL
19. LAMINATE 16mm TYPE 'X' GYPSUM BOARD TO MAINTAIN APPEARANCE OF CONTINUOUS PARTITION.
20. PROVIDE VERTICAL CONTROL JOINT C/W EXPANDABLE FIRE RATED CAULKING BEHIND
21. NEW DOOR, FRAME AND HARDWARE, SEE DFH SCHEDULE
22. NEW L.I.T. CEILING
23. CAP TOP OF PARTIAL HEIGHT FIRE RATED PARTITION IN ORDER TO MAINTAIN CONTINUITY IN RATED ASSEMBLY
24. HORIZONTAL FIRE RATED PARTITION. FIRE CAULK ALL PERIMETERS, PENETRATIONS AND OBSTRUCTIONS.
25. PROVIDE NEW T-BAR PERIMETER TRIM, AS REQUIRED TO MAKE GOOD EXISTING L.I.T. CEILING ASSEMBLY. EXISTING CEILING ASSEMBLY TO BE MAINTAINED.
26. PROVIDE HORIZONTAL CONTROL JOINT C/W EXPANDABLE FIRE RATED CAULKING BEHIND.
27. PROVIDE BREAK IN FULL HEIGHT STRUCTURAL STUD PARTITION TO MAINTAIN CONTINUOUS SECURITY MESH. CONTINUE STRUCTURAL FRAMING ABOVE. TO BE REVIEW, STAMPED AND SIGNED OFF BY DRYWALL CONTRACTORS STRUCTURAL P.ENG..
28. CONTINUE GYPSUM BOARD INTO FLUTE OF STEEL DECK. GYPSUM TO FOLLOW PROFILE OF STEEL DECKING. CAULK & SEAL PERIMETER
29. FILL VOID WITH MINERAL FIBRE INSULATION
30. BEAD OF ACOUSTIC CAULKING OR FIRE CAULKING DEPENDING ON PARTITION TYPE. SEE PLANS FOR PARTITION TYPES
31. TOP OF SIDEWALL STUD BEHIND.

ONTARIO ASSOCIATION OF ARCHITECTS
ROBERT PHILIP HUGH MARTIN
LICENCE 5672

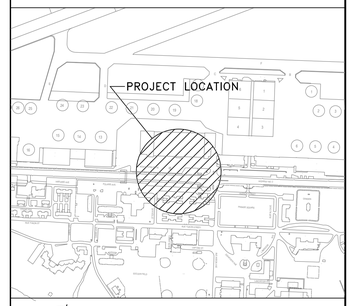
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N. T. S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N. T. S.

GENERAL NOTES

1. DO NOT SCALE DRAWINGS.
2. CONTRACTOR IS RESPONSIBLE TO CHECK AND FIELD VERIFY ALL DIMENSIONS.
3. ALL ELECTRICAL WORK TO BE CARRIED OUT BY CERTIFIED ELECTRICIAN.
4. CONTRACTOR TO NOTIFY DESIGN CONSULTANT IMMEDIATELY OF ANY DISCREPANCIES OF DIMENSIONS, MATERIALS OR CONDITIONS.
5. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS, SPECIFICATIONS AND CONSTRUCTION DOCUMENTS.
6. UNLESS OTHERWISE INDICATED AS EXISTING, ALL MATERIALS ARE NEW AND ARE SUPPLIED AND INSTALLED AS PART OF THIS CONTRACT.
7. CONTRACTOR TO ENSURE ALL WORK AREAS IN CONTRACT ARE FREE OF DEBRIS AND LOOSE MATERIALS AT COMMENCEMENT OF WORK ONSITE AND AT ALL TIMES DURING CONSTRUCTION PERIOD. REMOVE ALL FOREIGN OBJECT DEBRIS (FOD) [SCREWS, GARBAGE, UNSECURED MATERIALS, ETC.] FROM AREA.
8. PROVIDE PROTECTION TO ALL "EXISTING TO REMAIN" MATERIALS.
9. REPAIR, PATCH AND MAKE GOOD ALL EXISTING FINISHES AND SURFACES AFFECTED BY WORK.
10. MAKE ALL EXISTING SURFACES, IN AREA OF WORK, READY TO RECEIVE NEW FINISH.
11. ALL ACCESS HATCHES ARE TO BE PROVIDED BY THE MECHANICAL/ELECTRICAL CONTRACTOR TO SUIT. PROVIDE SIZE AND LOCATIONS TO CONSULTANTS FOR REVIEW AND COORDINATION, PRIOR TO INSTALLATION.
12. SECURITY EQUIPMENT REMOVAL AND REINSTATEMENT (BY OWNER). ACCESS AND LOCATIONS TO BE COORDINATED, PRIOR TO ENCLOSING CEILINGS/WALLS.
13. ALL CORING, SAW CUTS AND PENETRATIONS THROUGH STRUCTURE TO BE SCANNED, REVIEWED & APPROVED BY LICENSED STRUCTURAL ENGINEER.
14. CONTRACTOR TO ENSURE ALL FIRE SEPARATIONS ARE MAINTAINED ACCORDING TO SPECIFIED RATINGS.

NO.	DATE	REVISION	APPR.
5	2025/02/24	ISSUED FOR TENDER r.1	
4	2020/09/24	ISSUED FOR TENDER	T.H.
3	2020/08/19	ISSUED FOR 100% SUBMISSION	T.H.
2	2020/05/19	ISSUED FOR 90% SUBMISSION	T.H.
1	2020/03/26	ISSUED FOR 60% SUBMISSION	T.H.

SCALE | ÉCHELLE 1 : 10 (200 0 200 400 600mm)

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER: ARCHITECTURAL
DATE: 2025/03/20

SUBJECT | SUJET
DETAILS

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ T.H.	XX | XX X.X.	DES O | AGENT CONC S.CHINNATAMBY
DRAWN | DESSINÉ P.L.		PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED | VÉRIFIÉ		DES MGR | GEST CONC X.X.
COORDINATION		FIRE | INCENDIE CAPT. CAMPBELL

WBS NO. | NO. OTP: N.001755.03
PF NO. | NO. DP: PF 500006755
DWG. NO. | NO. DESSIN: L-T81-3019/2- 314

Canada

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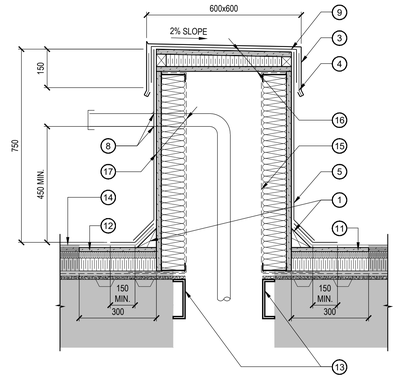
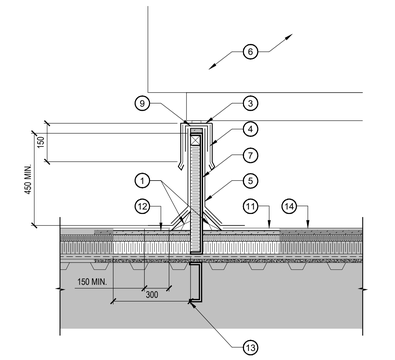


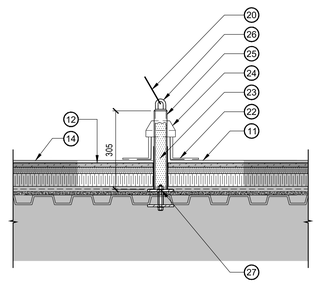
ROOFTOP DOG HOUSE DETAIL

SCALE: 1:10 — 4 / 315



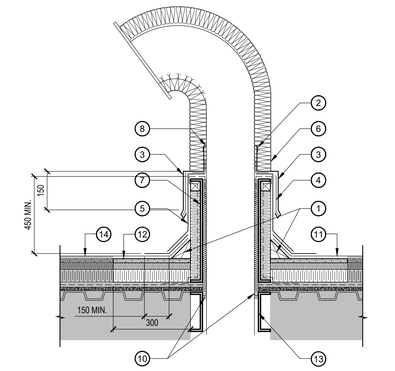
ROOFTOP UNIT CURB DETAIL

SCALE: 1:10 — 3 / 315



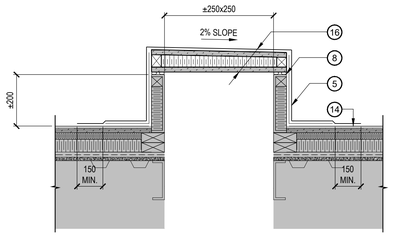
SEISMIC ROOF ANCHOR FOR HIGH STACK

SCALE: 1:10 — 6 / 315



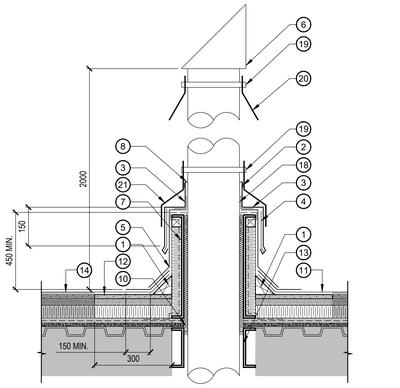
TYPICAL ROOF GOOSENECK DUCT PENETRATION

SCALE: 1:10 — 2 / 315



DEMO'D EXHAUST FAN CAP DETAIL

SCALE: 1:10 — 5 / 315



TYPICAL HIGH VENT STACK DETAIL

SCALE: 1:10 — 1 / 315

NOTES

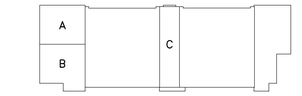
GENERAL NOTES
COORDINATE LOCATION,SIZE & EXTENT OF ROOFING WORK WITH MECH./ELEC./STRUCTURAL DRAWINGS.

1. PROVIDE NEW CANT STRIP
2. STAINLESS STEEL RETENTION BAR
3. PRE-FINISHED SHEET METAL FLASHING
4. CONCEALED METAL FLASHING CLIP
5. NEW REINFORCED TPO ROOFING MEMBRANE LAPS SET IN BONDING ADHESIVE. C/W LAPS AT CORNERS AS PER MANUFACTURERS RECOMMENDATIONS.
6. NEW MECHANICAL EQUIPMENT. SEE MECHANICAL
7. NEW P.ENG STEEL ROOF CURB C/W RIGID ROOF INSULATION AND WOOD NAILER. LAPPED IN P&S MEMBRANE
8. BEAD OF SEALANT OR HIGH GRADE CAULKING SUITABLE FOR CORRESPONDING SUBSTRATE.
9. CAP SHEET MEMBRANE
10. FILL VOID BETWEEN CURB AND MECHANICAL PENETRATION W/ MINERAL FIBRE BATTS. ROPE & CAULK UNDERSIDE OF ROOF FROM INTERIOR.
11. PEEL BACK EXISTING TPO ROOFING MEMBRANE TO SUIT NEW ROOF CURB INSTALLATION. REINSTATE UPON COMPLETION OF NEW INSTALLATION AND ROOFING SYSTEM REINSTATEMENT. LAP AND SEAL ALL SEAMS & CORNERS AS PER MANUFACTURERS RECOMMENDATION.
12. CUT BACK EXISTING ROOFING SYSTEM AS REQUIRED TO SUIT NEW ROOF CURB INSTALLATION, WELL MAINTAINING THE BASE SHEATHING AND EXISTING SELF ADHERED AIR/VAPOR BARRIER. REINSTATE NEW RIGID INSULATION & GYPSUM INSULATION OVERLAY BOARD. THICKNESS TO MATCH EXISTING ADJACENT ASSEMBLY
13. NEW STRUCTURAL STEEL ROOF FRAMING SUPPORTS. SEE STRUCTURAL DRAWINGS
14. EXISTING ROOFING ASSEMBLY TO REMAIN. PROTECT DURING NEW ROOF WORK.
15. NEW 6mil POLY VAPOUR BARRIER LAPPED ONTO EXISTING ROOFING MEMBRANE
16. 19mm EXTERIOR GRADE PLYWOOD BOTH SIDES OF 38mm WIDE WOOD BLOCKING. FILL VOID W/ MINERAL FIBRE INSULATION SLOPE TOP OF PLYWOOD AS INDICATED
17. 19mm EXTERIOR GRADE PLYWOOD ON 92mm METAL STUDS @ 300mm O.C. C/W 92mm MINERAL FIBRE INSULATION
18. MECHANICAL VENT PIPE COATED WITH 2 COATS OF PRIMER AND 2 COATS OF HIGH TEMPERATURE EPOXY PAINT (REFER TO MECHANICAL).
19. STAINLESS STEEL COLLAR WITH SEALANT FASTENER.
20. STAINLESS STEEL SEISMIC ANCHOR CHORD. (ANCHOR TO BE REVIEWED AND DESIGNED BY STRUCTURAL P.ENG) COORDINATE WITH STRUCTURAL AND MECHANICAL DRAWINGS
21. PRE-FABRICATED GALVANIZED METAL RAIN HOOD. PROVIDE ISOLATION BETWEEN DISSIMILAR MATERIALS.
22. PRE-FINISHED 24ga METAL FLASHING COLLAR. PROVIDE ISOLATION MEMBRANE BETWEEN DISSIMILAR MATERIALS
23. FILL VOID WITH CLOSED CELL SPRAY FOAM INSULATION
24. HEAT SHRINK RUBBER COLLAR
25. GALVANIZED METAL PIER COMPLETE WITH BASE PLATE
26. STAINLESS STEEL U-BAR SAFETY ANCHOR
27. STAINLESS STEEL THREADED ROD C/W HEX NUT AND LOCK WASHER MOUNTED THROUGH GALVANIZED STEEL BACK PLATE AND ANCHOR BASE PLATE

ONTARIO ASSOCIATION OF ARCHITECTS
ROBERT PHILIP PAUL MARTIN
LICENCE 5672

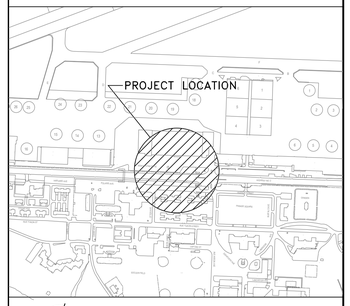
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

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NO.	DATE	REVISION	APPR.
5	2025/02/24	ISSUED FOR TENDER r.1	
4	2020/09/24	ISSUED FOR TENDER	T.H.
3	2020/08/19	ISSUED FOR 100% SUBMISSION	T.H.
2	2020/05/19	ISSUED FOR 90% SUBMISSION	T.H.
1	2020/03/26	ISSUED FOR 60% SUBMISSION	T.H.

SCALE | ÉCHELLE
1 : 10 (200 0 200 400 600mm)

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
ARCHITECTURAL	2025/03/20

SUBJECT | SUJET
ENVELOPE DETAILS

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: T.H.	XX | XX: X.X.	DES O | AGENT CONC: S.CHINNATAMBY
DRAWN | DESSINÉ: P.L.		PROJ MGR | GEST PROJ: S.CHINNATAMBY
CHECKED | VÉRIFIÉ		DES MGR | GEST CONC: X.X.
COORDINATION		FIRE | INCENDIE: CAPT. CAMPBELL

WBS NO. | NO. OTP: N.001755.03
PF NO. | NO. DP: PF 500006755
DWG. NO. | NO. DESSIN: L-T81-3019/2- 315

Canada

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GENERAL LEGEND

UP	UP
DN	DOWN
RL	ITEM TO BE RELOCATED
R	RELOCATED ITEM
RM	ITEM TO BE REMOVED
DCC	DEFENSE CONSTRUCTION CANADA

DRAINAGE LEGEND

- SANITARY PIPING NEW
- SANITARY PIPING DEMOLITION
- SANITARY PIPING EXISTING
- PIPE DOWN
- PIPE UP
- FUNNEL FLOOR DRAIN (FFD)
- FLOOR DRAIN
- P-TRAP

PLUMBING LEGEND

- DOMESTIC COLD WATER PIPING NEW
- DOMESTIC COLD WATER PIPING DEMOLITION
- DOMESTIC COLD WATER PIPING EXISTING
- DOMESTIC HOT WATER PIPING NEW
- DOMESTIC HOT WATER PIPING DEMOLITION
- DOMESTIC HOT WATER PIPING EXISTING
- DOMESTIC WATER RECIRC
- NON POTABLE WATER
- EXISTING NATURAL GAS PIPING
- NEW NATURAL GAS PIPING

HVAC LEGEND

- EXISTING DUCTWORK TO REMAIN
- EXISTING FLEXIBLE DUCTWORK TO REMAIN
- EXISTING DUCTWORK TO BE REMOVED
- NEW DUCTWORK
- NEW FLEXIBLE DUCTWORK
- 4-WAY CEILING DIFFUSER
- RETURN GRILL
- VARIABLE AIR VOLUME (VAV) BOX
- THERMOSTAT (T)
- BALANCING DAMPER
- FIRE DAMPER (FD)
- TURNING VANES
- Z-SHAPE TRANSFER DUCT C/W 25mm INTERNAL ACOUSTIC ISULATION
- L-SHAPE TRANSFER DUCT C/W 25mm INTERNAL ACOUSTIC INSULATION

HYDRONIC LEGEND

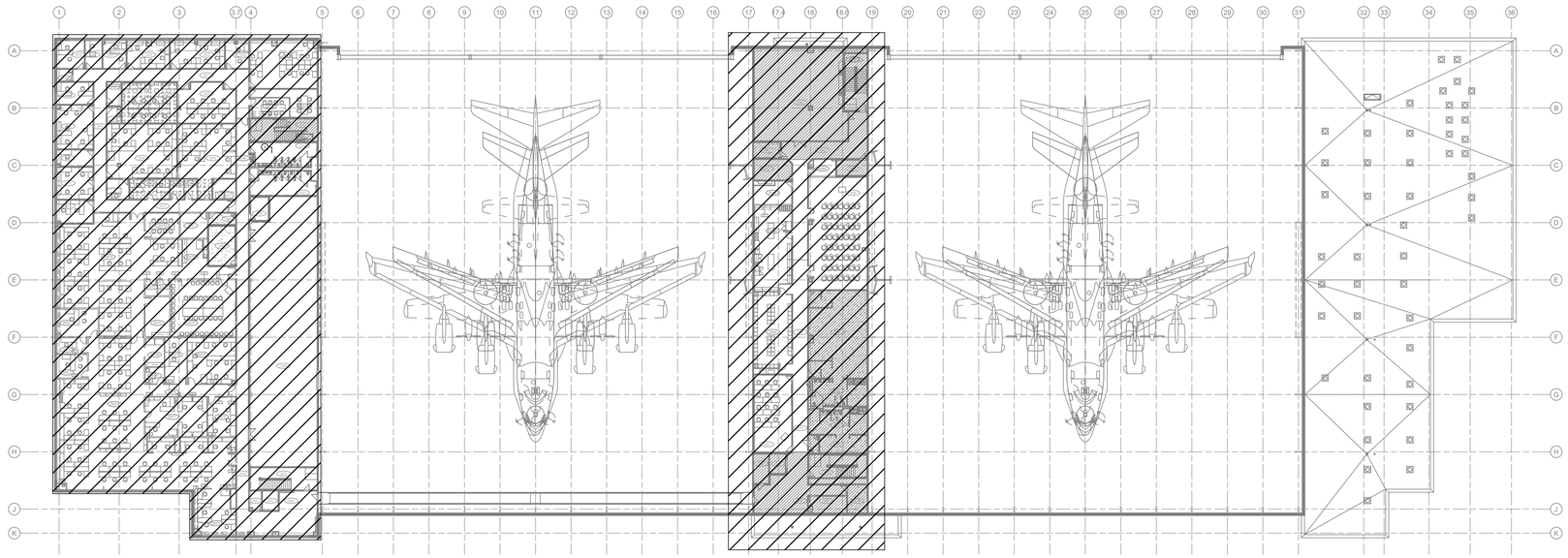
- HOT WATER SUPPLY
- HOT WATER RETURN
- GLYCOL WATER SUPPLY
- GLYCOL WATER RETURN
- REFRIGREANT GAS LINE
- REFRIGERANT LIQUID LINE
- SHUT-OFF VALVE
- BALANCING VALVE
- STRAINER
- CHECK VALVE
- THERMOMETER
- TEMPERATURE SENSOR
- PRESSURE RELIEF WITH DRAIN VALVE
- FLOW SWITCH
- PRESSURE GAUGE
- PUMP
- FLEXIBLE CONNECTION
- NATURAL GAS SHUT-OFF VALVE
- NATURAL GAS REGULATOR

SPRINKLER LEGEND

- RECESSED SPRINKLER HEAD
- PENDANT SPRINKLER HEAD
- (F) FIRE EXTINGUISHER TYPE ABC, 5KG

AREA A/B

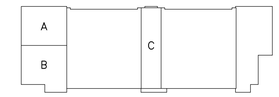
AREA C



1 / 401 KEYPLAN
SCALE: N.T.S.

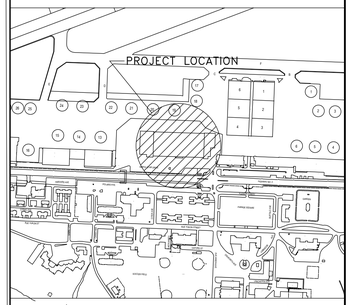
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N. T. S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N. T. S.

NO.	DATE	REVISION	APPR.
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5	2025/02/24	ISSUED FOR TENDER	S.S
4	2020/10/07	ISSUED FOR TENDER	S.S
3	2020/08/19	ISSUED FOR 100% SUBMISSION	S.S
2	2020/05/19	ISSUED FOR 90% SUBMISSION	S.S

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
MECHANICAL	2020/01/08

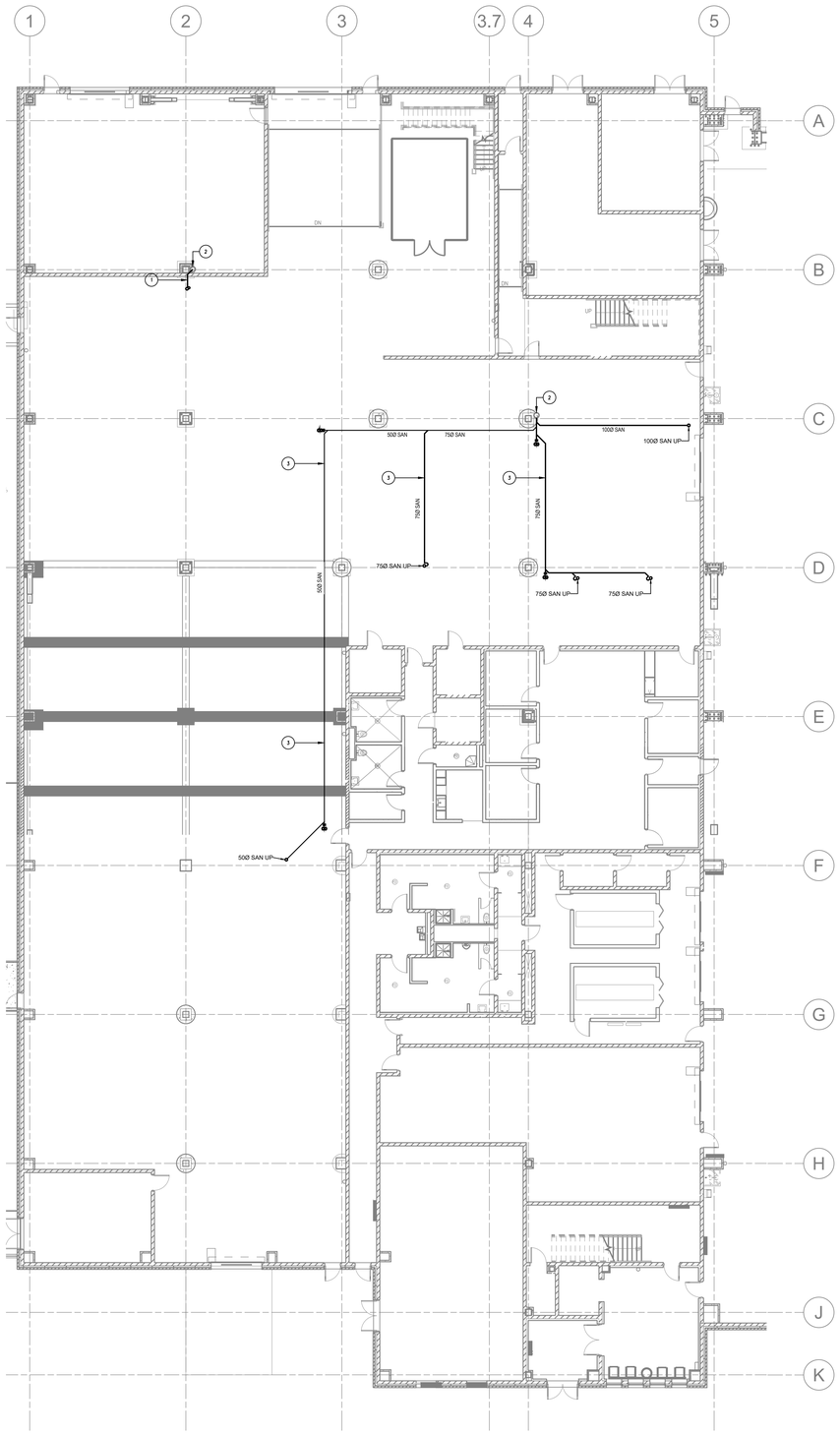
SUBJECT | SUJET
LEGENDS AND KEYPLAN

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ S.S.	XX | XX	DES O | AGENT CONC S.CHINNATAMBY
DRAWN | DESSINÉ C.K.	XX | XX	PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED | VÉRIFIÉ	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION		FIRE | INCENDIE CAPT. CAMPBELL

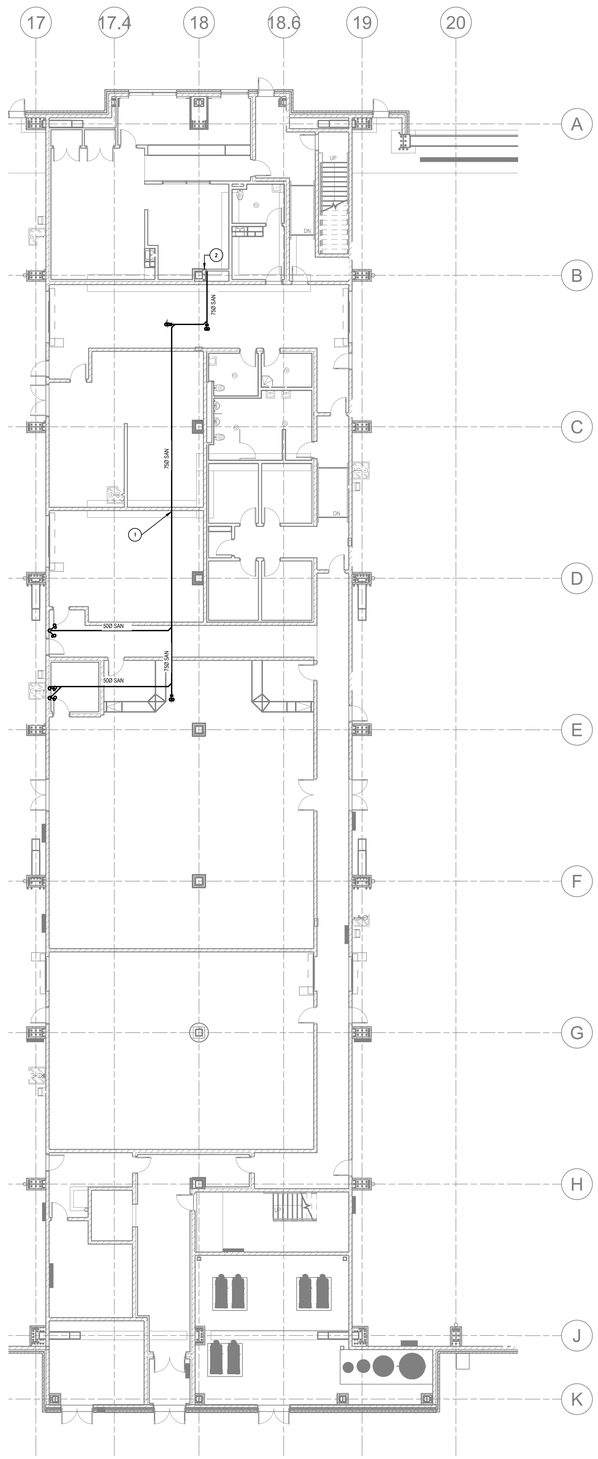
WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

DWG. NO. | NO. DESSIN
L-T81-3019/2- 401

Canada



1 402 AREA A/B FIRST LEVEL - OVERHEAD DRAINAGE PLAN
SCALE: 1:150



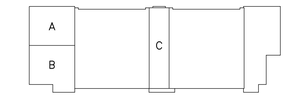
2 402 AREA C FIRST LEVEL - OVERHEAD DRAINAGE PLAN
SCALE: 1:150

DRAWINGS NOTES

1. NEW SANITARY DRAIN IN CEILING SPACE OF GROUND FLOOR, CONTRACTOR TO REMOVE ACOUSTIC CEILING TILES. REFER TO ARCHITECTURAL DRAWINGS.
2. CONNECT NEW SANITARY DRAINAGE TO EXISTING STACKS.
3. NEW SANITARY DRAIN IN CEILING SPACE OF GROUND FLOOR. CEILING HEIGHT IS +/-9695mm.

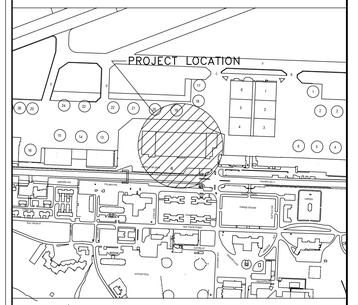
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

GENERAL NOTES:

1. CONTRACTOR TO TRACE AND IDENTIFY EXISTING DRAINAGE AND PLUMBING PRIOR TO THE START OF THE DEMOLITION.
2. THE SANITARY DRAINS LOCATED IN THE GROUND FLOOR CEILING ARE LOCATED AT APPROXIMATELY +/- 7,400mm AFF.

LICENSED PROFESSIONAL ENGINEER S. E. M. SIVJCY 100753361 PROVINCE OF ONTARIO 25/01/15

NO.	DATE	REVISION	APPR.
6	2025/03/28	ISSUED FOR TENDER	S.S
5	2025/02/24	ISSUED FOR TENDER	S.S
4	2020/10/07	ISSUED FOR TENDER	S.S
3	2020/08/19	ISSUED FOR 100% SUBMISSION	S.S
2	2020/05/19	ISSUED FOR 90% SUBMISSION	S.S

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
MECHANICAL	2020/01/08

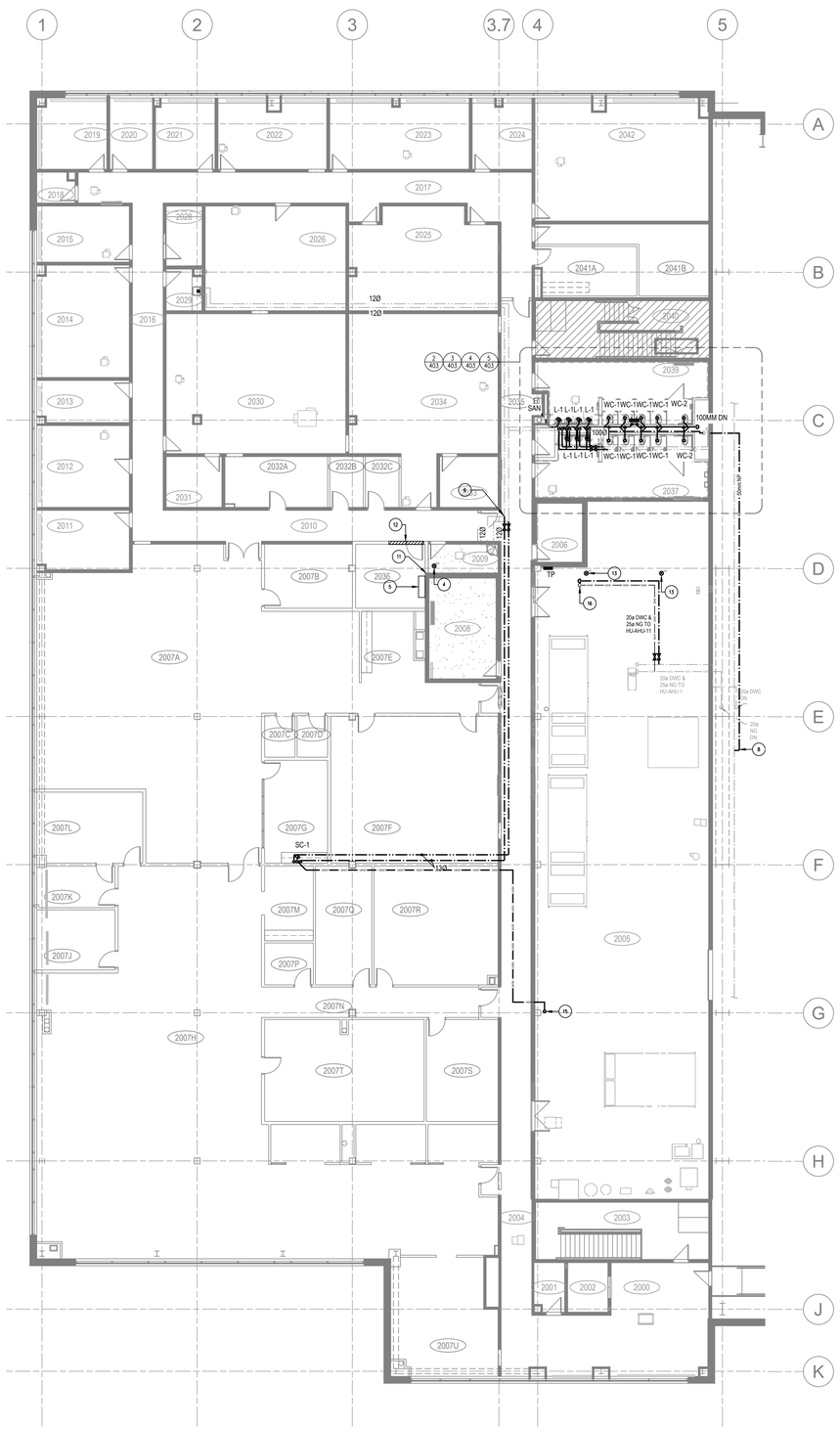
SUBJECT | SUJET
FIRST LEVEL OVERHEAD PLUMBING PLAN

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ S.S.	XX | XX	DES O | AGENT CONC S.CHINNATAMBY
DRAWN | DESSINÉ C.K.	XX | XX	PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED | VÉRIFIÉ	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION		FIRE | INCENDIE CAPT. CAMPBELL

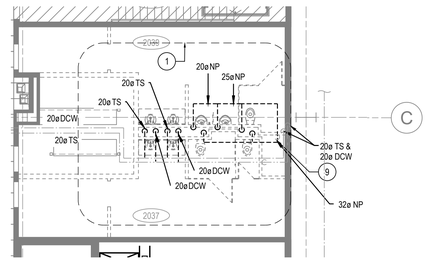
WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

DWG. NO. | NO. DESSIN
L-T81-3019/2- 402

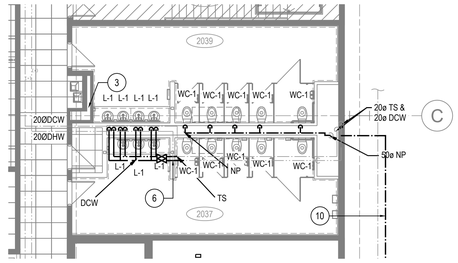
Canada



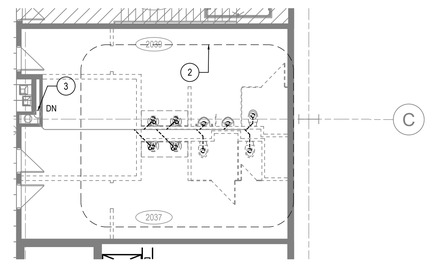
1 403 AREA A/B SECOND LEVEL - PLUMBING
SCALE: 1:150



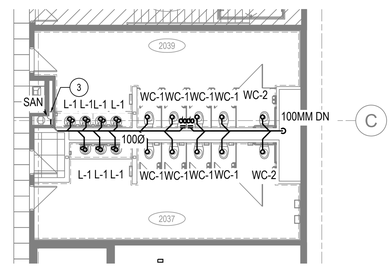
2 403 WASHROOM - PLUMBING DEMOLITION
SCALE: 1:100



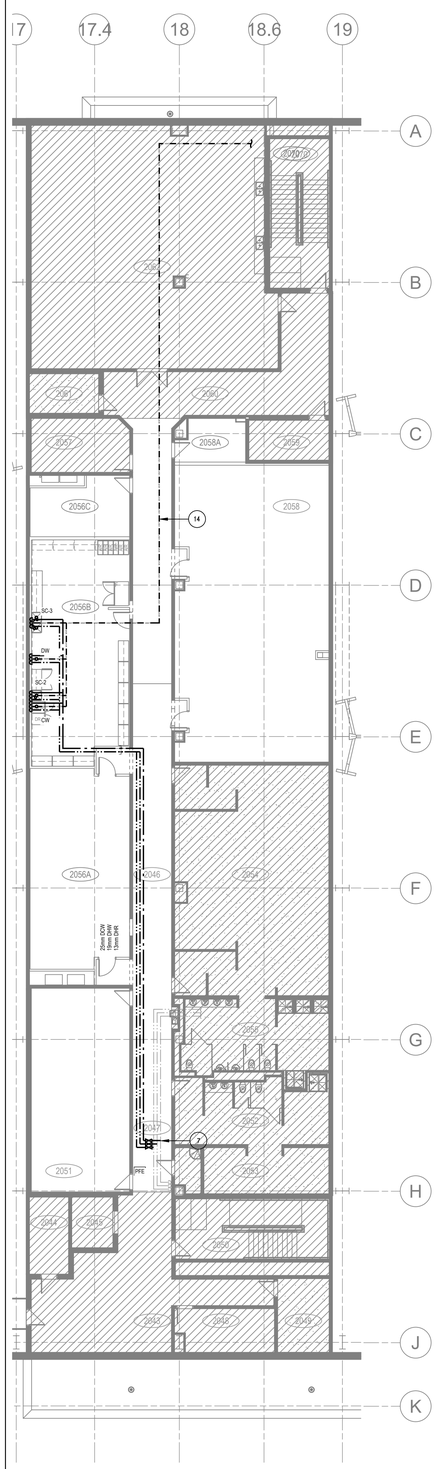
3 403 WASHROOM - PLUMBING CONSTRUCTION
SCALE: 1:100



4 403 WASHROOM - SANITARY DEMOLITION
SCALE: 1:100



5 403 WASHROOM - SANITARY CONSTRUCTION
SCALE: 1:100



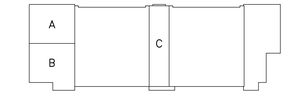
6 403 AREA C SECOND LEVEL - PLUMBING
SCALE: 1:150

DRAWINGS NOTES

1. ALL PLUMBING FIXTURES INDICATED IN THIS AREA ARE TO BE REMOVED C/W ALL DOMESTIC COLD & HOT AND NON-POTABLE WATER CONNECTIONS BACK TO MAINS.
2. ALL PLUMBING FIXTURES INDICATED IN THIS AREA ARE TO BE REMOVED C/W SANITARY DRAINS AND VENTS BACK TO MAINS.
3. CONNECT NEW SANITARY DRAIN TO EXISTING MAIN/STACK AND NEW PLUMING VENTS TO STACK VENT LOCATED HERE.
4. PROVIDE NEW 75mm FUNNEL FLOOR DRAIN FOR AIR CONDITIONING CONDENSATE DRAIN.
5. PROVIDE CONDENSATE DRAIN FOR NEW AIR CONDITIONING UNIT TO NEW FLOOR DRAIN IN ADJACENT ROOM.
6. NEW DCW AND TS TO BE TIED INTO EXISTING MAINS.
7. CONNECT NEW DOMESTIC COLD, HOT AND RECIRC. TO THE EXISTING MAINS IN THE CEILING SPACE OF THE SECOND LEVEL.
8. EXISTING 50mm NON-POTABLE COLD WATER LOCATED WITHIN HANGAR ALONG WALL (AT GROUND FLOOR CEILING HEIGHT) TO REMAIN. CONTRACTOR TO CONNECT NEW 50mm NON-POTABLE LINE FOR NEW WASHROOM AT THIS LOCATION.
9. EXISTING 32mm NON-POTABLE COLD WATER PIPING TO BE REMOVED BACK TO MAIN IN HANGAR SPACE BELOW.
10. NEW 50mm NON-POTABLE COLD WATER PIPING TO RUN ALONG HANGAR WALL (APPROX. 3m A.F.F. TO NEW WATER CLOSETS IN WASHROOM ON THE 2ND FLOOR.
11. PENETRATION THROUGH WALL FOR NEW CONDENSATE DRAIN. FRAME OPENINGS WITHIN 25mm OF THE PIPES AND SECURE TO THE STUD FRAMING AT MINIMUM TWO PLACES. EXTEND THE WALL PROTECTION MATERIAL TO WITHIN 20mm OF THE EDGE OF THE OPENING. EXTEND GYPSUM WALL BOARD TO THE EDGE OF THE PIPE OR CONDUIT. SEAL ALL GAPS WITH FIRE RATED OR ACOUSTIC SEALANT. RECOMMENDED PRODUCT STANDARD: ASTM E 814 (UL 1479) OR CAN/ULC S115, OR AS REQUIRED BY THE AHJ.
12. NO PENETRATIONS TO BE MADE WITHIN 1,200mm OF THE EDGE OF THE DOOR.
13. PROVIDE NEW FFD FOR NEW MECHANICAL EQUIPMENT IN MECHANICAL ROOM.
14. NEW PLUMBING VENT TO RUN IN CEILING SPACE OF MECHANICAL ROOM ABOVE UP TO EXISTING PLUMBING VENT STACK NEAR GRIDELINE 18.6-A.
15. EXISTING PLUMBING VENT TO ROOF TO REMAIN.
16. PROVIDE NATURAL GAS REGULATOR (5PSI TO 7"WC) C/W VENT UP TO ROOF FOR NEW HUMIDIFIER.

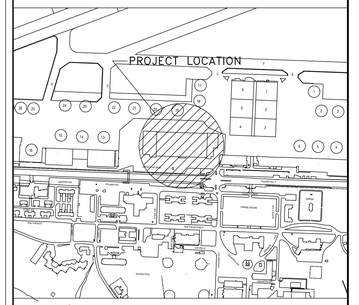
Government of Canada | Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

GENERAL NOTES:

1. CONTRACTOR TO CONFIRM ALL PLUMBING, DRAINAGE AND VENTING LOCATION AND SIZING PRIOR TO START OF DEMOLITION.
2. NEW SANITARY DRAINS INDICATED ON THIS DRAWING ARE LOCATED IN HIGH CEILING SPACE OF GROUND FLOOR BELOW UNLESS INDICATED OTHERWISE.
3. CONNECT TRAP SEAL PRIMER TO NEAREST DOMESTIC COLD WATER LINE.

NO.	DATE	REVISION	APPR.
6	2025/03/28	ISSUED FOR TENDER	S.S
5	2025/02/24	ISSUED FOR TENDER	S.S
4	2020/10/07	ISSUED FOR TENDER	S.S
3	2020/08/19	ISSUED FOR 100% SUBMISSION	S.S
2	2020/05/19	ISSUED FOR 90% SUBMISSION	S.S

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
MECHANICAL	2020/01/08

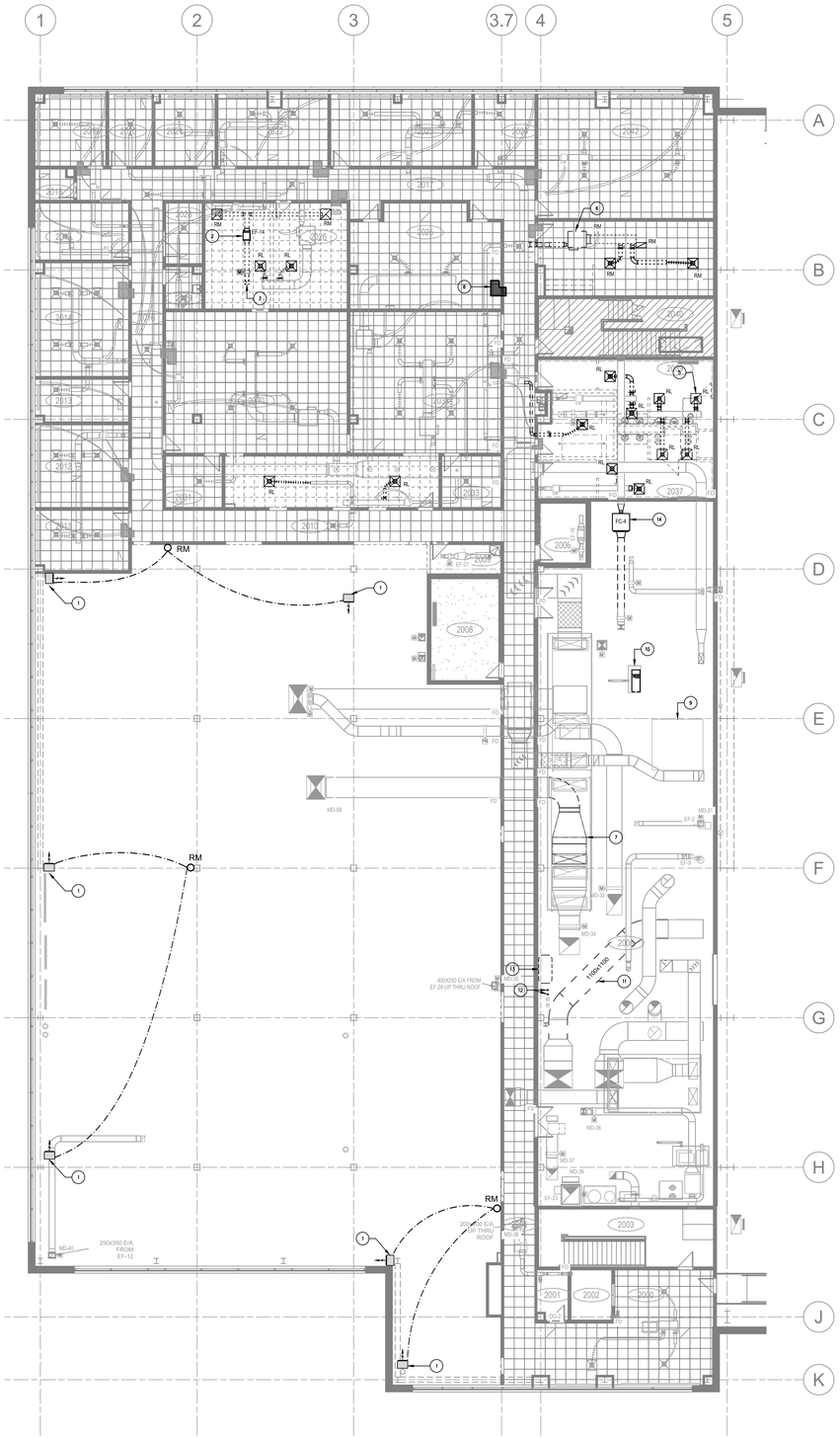
SUBJECT | SUJET
SECOND LEVEL PLUMBING PLAN

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ S.S.	XX | XX	DES O | AGENT CONC S.CHINNATAMBY
DRAWN | DESSINÉ C.K.	XX | XX	PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED | VÉRIFIÉ	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION		FIRE | INCENDIE CAPT. CAMPBELL

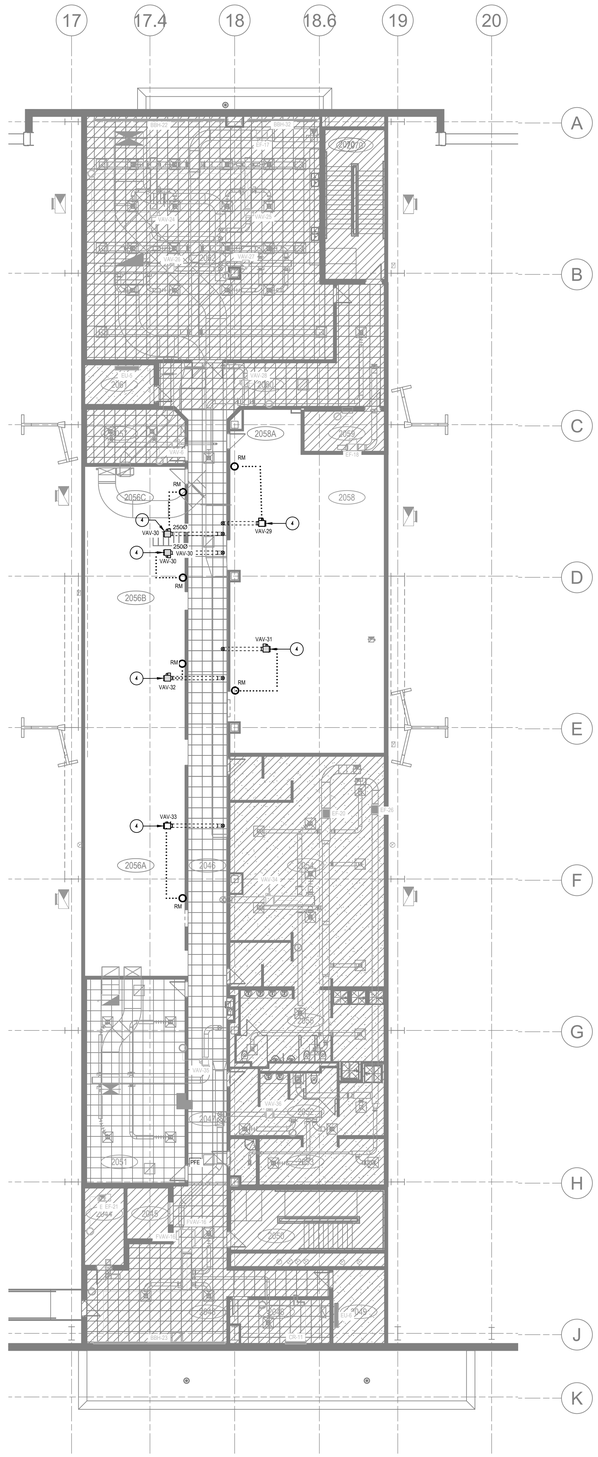
WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

DWG. NO. | NO. DESSIN
L-T81-3019/2- 403

Canada



1 404 AREA A/B SECOND LEVEL - HVAC DEMOLITION
SCALE: 1:150



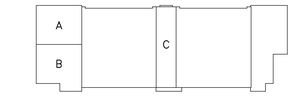
2 404 AREA C SECOND LEVEL - HVAC DEMOLITION
SCALE: 1:150

DRAWINGS NOTES

1. EXISTING HYDRONIC UNIT HEATER TO BE REMOVED AND HANDED OVER TO DCC FOLLOWING DEMOLITION.
2. EXISTING INLINE EXHAUST FAN IN CEILING SPACE TO BE REMOVED C/W ALL DUCTWORK.
3. EXHAUST DUCT UP TO ROOF TO BE REMOVED C/W GOOSENECK. OPENING TO BE CAPPED AND SEALED.
4. EXISTING VAV BOX TO BE REMOVED C/W THERMOSTAT AND DUCTWORK BACK TO MAIN AND CAPPED. VAV BOX TO BE HANDED BACK TO DCC FOLLOWING DEMOLITION.
5. TYPICAL:
   DIFFUSERS AND BRANCHES ARE TO BE RELOCATED AS PER NEW CONFIGURATION.
6. EXISTING VAV BOX TO BE REMOVED C/W DUCTWORK, DIFFUSERS, CONTROLS. VAV BOX TO BE HANDED BACK TO DCC FOLLOWING DEMOLITION.
7. EXISTING OUTSIDE AIR DUCT FOR EXISTING AHU TO BE REMOVED AND MODIFIED TO ALLOW FOR NEW AHU-11 RETURN DUCTWORK INSTALLATION. REFER TO 1/410 & 2/410 FOR DETAILS.
8. EXISTING TRANSFER DUCT TO BE REMOVED.
9. EXISTING HPC PRE-CONDITIONED AIR UNIT TO REMAIN.
10. EXISTING GAS-FIRED HUMIDIFIER TO BE REMOVED AND RE-INSTALLED TO ALLOW FOR THE INSTALLATION OF NEW AHU-11. CONTRACTOR TO DISCONNECT/RECONNECT ALL CONNECTIONS (DOMESTIC COLD WATER, GAS PIPING, STEAM, VENT, ELECTRICAL, CONTRACTORS, ETC) TO THE HUMIDIFIER AS REQUIRED.
11. EXISTING O/A DUCTWORK TO BE REMOVED C/W THERMAL INSULATION TO ALLOW FOR NEW S/A DUCTWORK INSTALLATION FOR AHU-11.
12. EXISTING HUMIDIFIER 100Ø VENTS UP TO ROOF. CONTRACTOR TO RELOCATE/OFFSET VERTICAL PORTION WITHIN THE MECHANICAL ROOM TO ALLOW FOR THE INSTALLATION OF S/A DUCTWORK OF NEW AHU-11.
13. EXISTING BAS EMT CNDUITS TO BE RELOCATEDF TO ALLOW FOR NEW AHU-11 S/A DUCTWORK. MODIFY/EXTEND WIRING AND CONDUITS AS REQUIRED.
14. EXISTING PRESSURIZATION FAN TO BE RELOCATED TO SUIT INSTALLATION OF NEW AHU-11. CONTRACTOR TO EXTEND/MODIFY DUCTWORK, CONTROLS, ELECTRICAL, ETC AS REQUIRED TO SUIT RELOCATION.

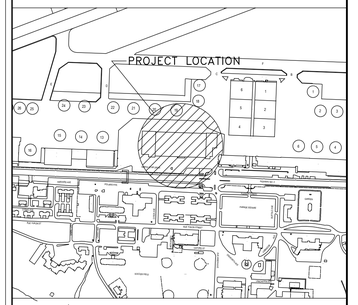
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

GENERAL NOTES:

1. ALL MECHANICAL ITEMS INDICATED ON THIS DRAWING ARE EXISTING TO REMAIN UNLESS INDICATED OTHERWISE.
2. EXISTING BAS SYSTEM IS A "RELIABLE CONTROLS" SYSTEM. CONTRACTOR TO RETAIN THE SERVICES OF A QUALIFIED CONTROLS CONTRACTOR TO PERFORM THE DECOMMISSIONING AND REMOVAL OF THE EXISTING CONTROLS FOR THE REMOVED MECHANICAL SYSTEMS.
3. EXISTING MECHANICAL EQUIPMENT BEING REMOVED ARE ALSO TO BE REMOVED FROM THE BAS. CONTRACTOR TO UPDATE BAS AND GRAPHICS TO REFLECT DEMOLITION WORK.

LICENSED PROFESSIONAL ENGINEER S. E. M. SOUCY 100153361 PROVINCE OF ONTARIO

NO.	DATE	REVISION	APPR.
6	2025/03/28	ISSUED FOR TENDER	S.S
5	2025/02/24	ISSUED FOR TENDER	S.S
4	2020/10/07	ISSUED FOR TENDER	S.S
3	2020/08/19	ISSUED FOR 100% SUBMISSION	S.S
2	2020/05/19	ISSUED FOR 90% SUBMISSION	S.S

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
MECHANICAL	2020/01/08

SUBJECT | SUJET
SECOND LEVEL HVAC DEMOLITION PLAN

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ S.S.	XX | XX	DES O | AGENT CONC S.CHINNATAMBY
DRAWN | DESSINÉ C.K.	XX | XX	PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED | VÉRIFIÉ	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION		FIRE | INCENDIE CAPT. CAMPBELL

WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

DWG. NO. | NO. DESSIN
L-T81-3019/2- 404

Canada

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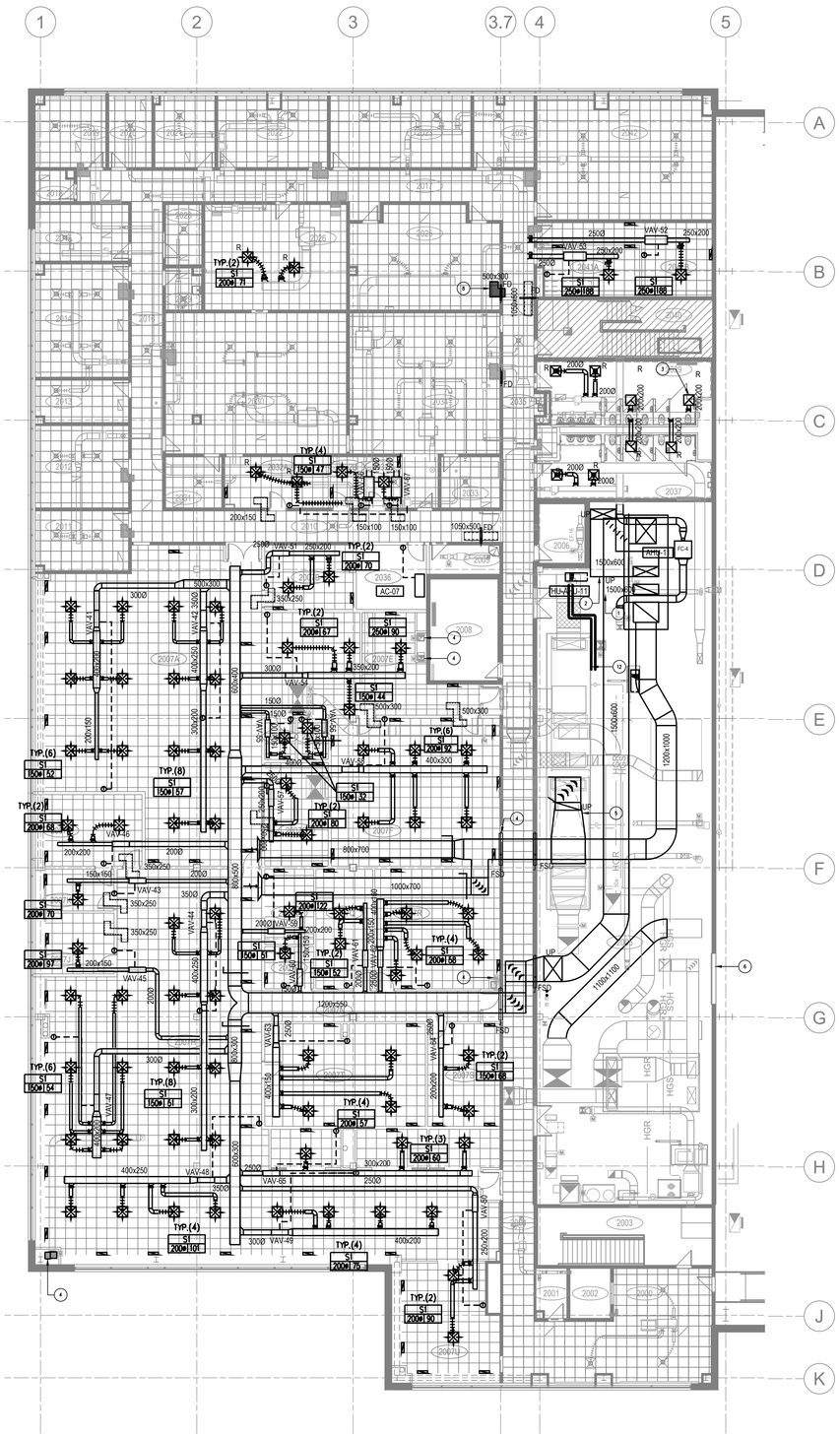
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TYP.(4) S1 150H 47
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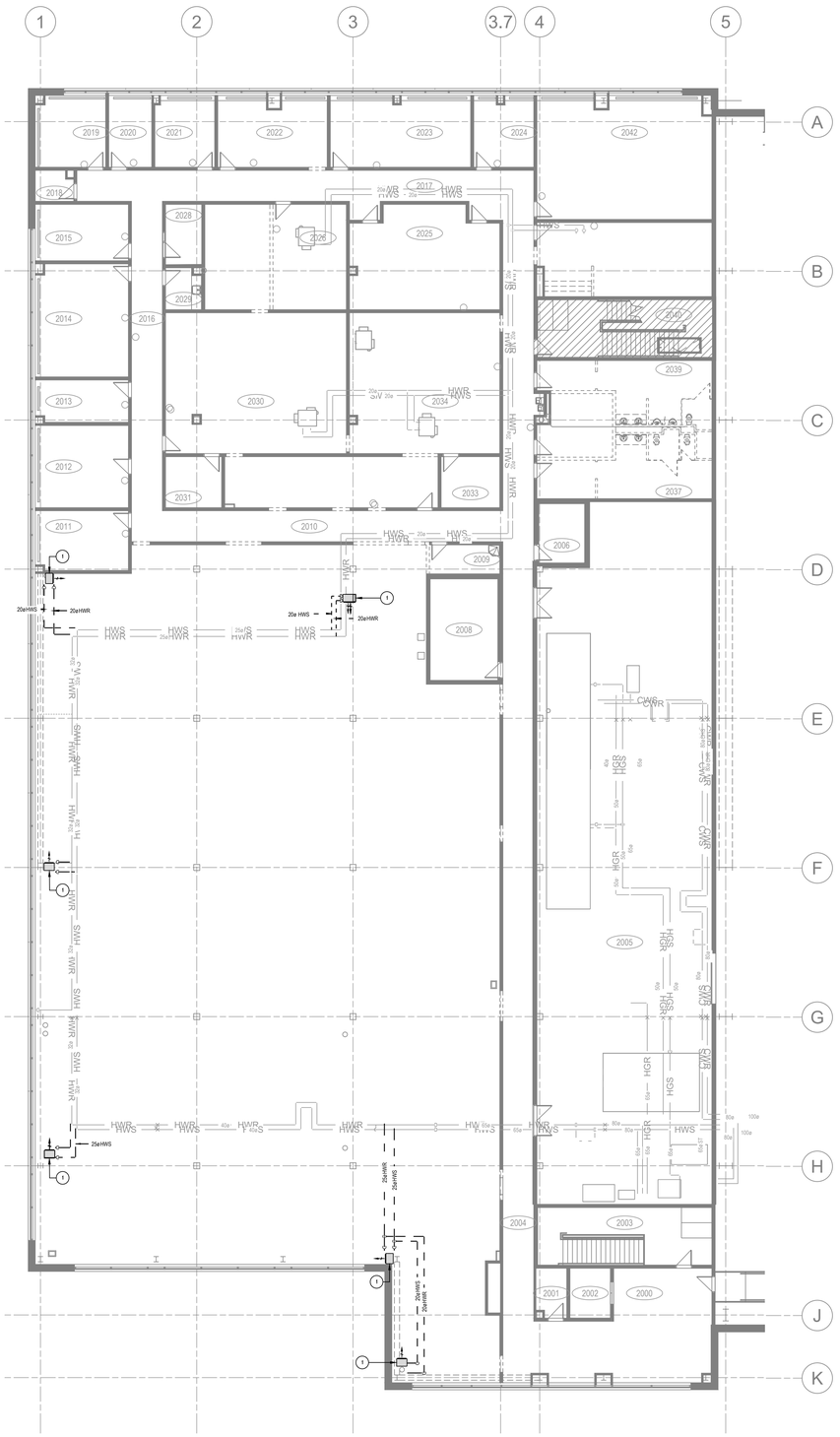
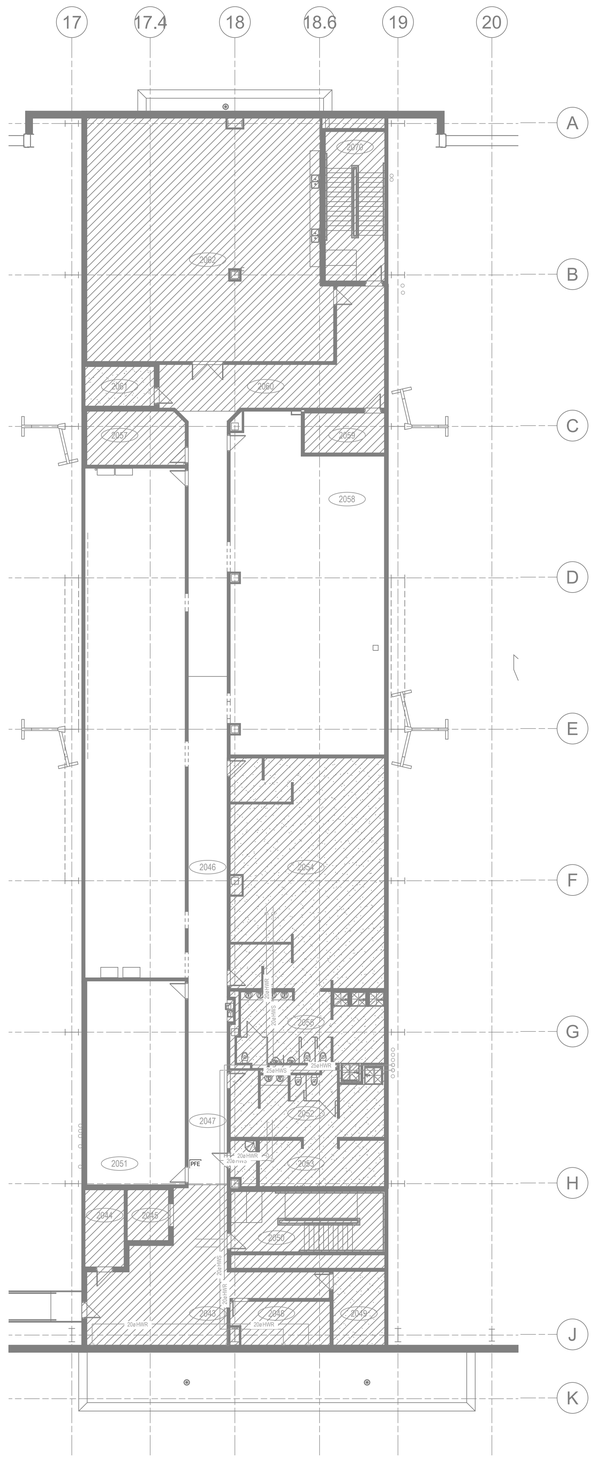


1 406 AREA A/B SECOND LEVEL - HYDRONIC DEMOLITION

SCALE: 1:150



2 406 AREA C SECOND LEVEL HYDRONIC DEMOLITION

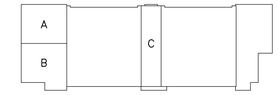
SCALE: 1:150

DRAWINGS NOTES

1. EXISTING HYDRONIC UNIT HEATER TO BE REMOVED C/W CONTROLS, VALVES, SUPPLY AND RETURN HYDRONIC PIPING BACK TO MAINS AND CAPPED. HYDRONIC HEATER TO BE HANDED BACK TO DDC FOLLOWING DEMOLITION.

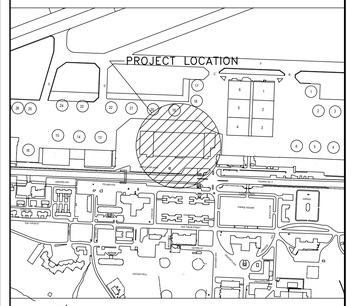
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

GENERAL NOTES:

1. ALL MECHANICAL ITEMS INDICATED ON THIS DRAWING ARE EXISTING TO REMAIN UNLESS INDICATED OTHERWISE.
2. CONTRACTOR TO TRACE AND IDENTIFY ALL EXISTING HYDRONIC HEATING PIPING PRIOR TO START OF DEMOLITION.
3. EXISTING MECHANICAL EQUIPMENT BEING REMOVED ARE ALSO TO BE REMOVED FROM THE BAS. CONTRACTOR TO UPDATE BAS AND GRAPHICS TO REFLECT DEMOLITION WORK.

LICENSED PROFESSIONAL ENGINEER S.E.H. MALOOV 100125081 PROVINCE OF ONTARIO 25/03/28

NO.	DATE	REVISION	APPR.
6	2025/03/28	ISSUED FOR TENDER	S.S
5	2025/02/24	ISSUED FOR TENDER	S.S
4	2020/10/07	ISSUED FOR TENDER	S.S
3	2020/08/19	ISSUED FOR 100% SUBMISSION	S.S
2	2020/05/19	ISSUED FOR 90% SUBMISSION	S.S

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
MECHANICAL	2020/01/08

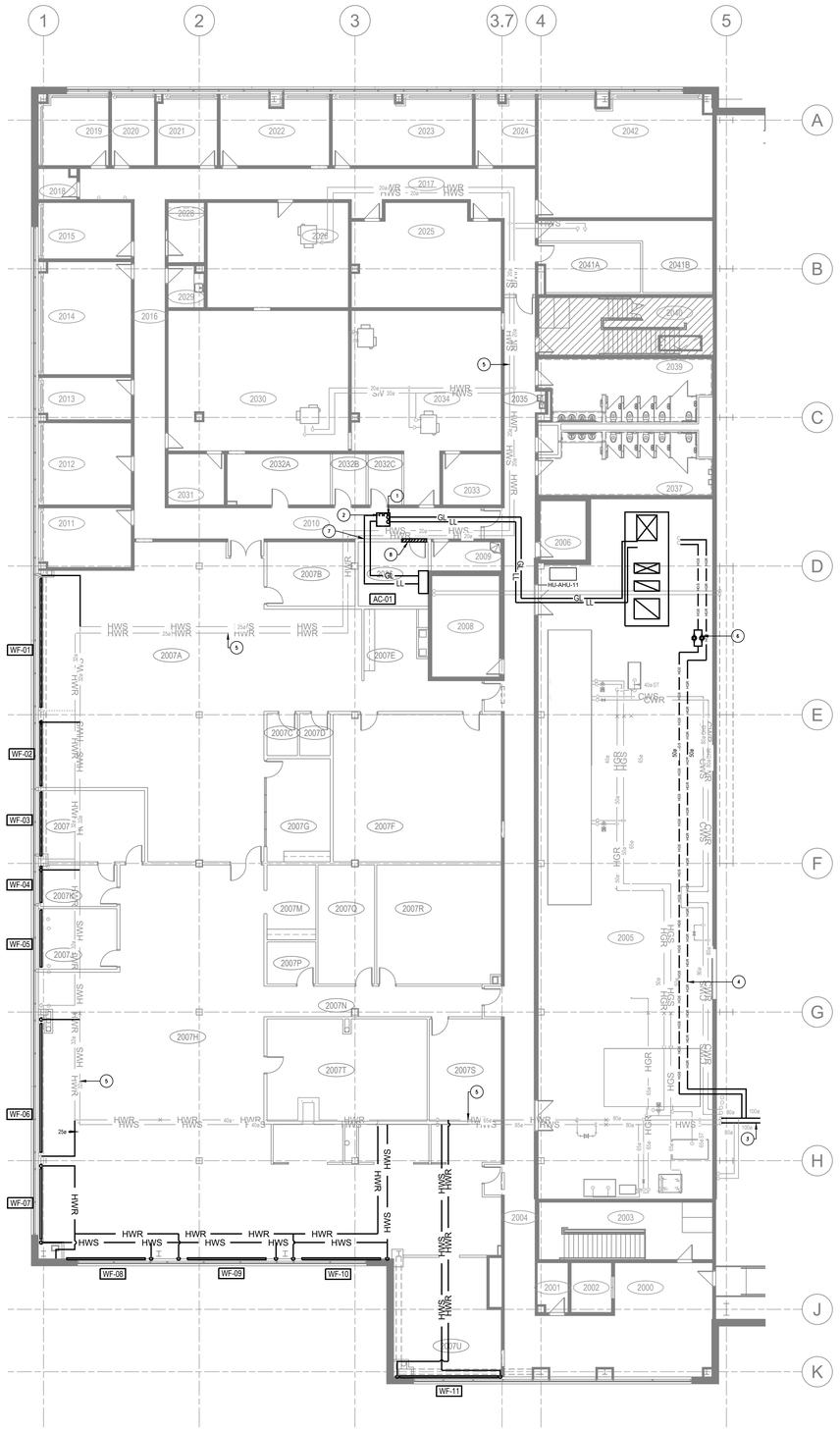
SUBJECT | SUJET
SECOND LEVEL HYDRONIC DEMOLITION PLAN

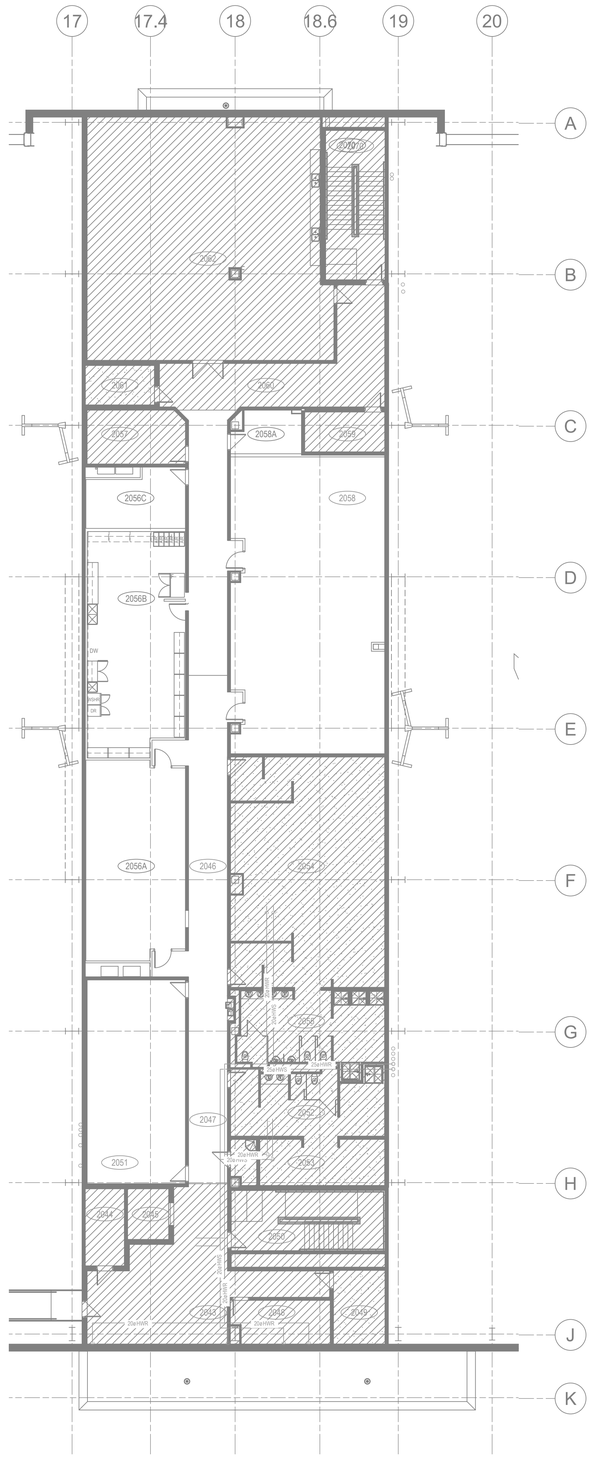
PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ S.S.	XX | XX	DES O | AGENT CONC S.CHINNATAMBY
DRAWN | DESSINÉ C.K.	XX | XX	PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED | VÉRIFIÉ	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION		FIRE | INCENDIE CAPT. CAMPBELL

WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

DWG. NO. | NO. DESSIN
L-T81-3019/2- 406

Canada





DRAWINGS NOTES

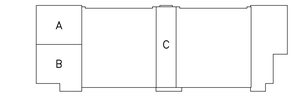
1. REFRIGERANT PIPING UP TO THE ROOF FOR NEW CONDENSER CU-11.
2. REFRIGERANT PIPING UP TO THE ROOF FOR THE NEW CONDENSER AC/CU-01.
3. EXISTING HYDRONIC HEATING SUPPLY AND RETURN PIPING UP IN THE JOIST SPACE WITHIN THE HANGER TO REMAIN. CONNECT NEW AHU-11 HYDRONIC PIPING TO 100Ø PIPING AT THIS LOCATION.
4. NEW HYDRONIC HEATING SUPPLY AND RETURN PIPING TO CONNECT TO EXISTING 100Ø MAINS INDICATED WITH NOTE #3.
5. EXISTING HYDRONIC HEATING SUPPLY AND RETURN MAINS TO REMAIN.
6. NEW HEAT EXCHANGER, PUMPS, GLYCOL STATION FOR THE NEW AIR HANDLING UNIT. REFER TO SCHEMATIC 2/410 FOR DETAILS.
7. PENETRATION THROUGH WALL FOR NEW CONDENSATE DRAIN. FRAME OPENINGS WITHIN 25mm OF THE PIPES AND SECURE TO THE STUD FRAMING AT MINIMUM TWO PLACES. EXTEND THE WALL PROTECTION MATERIAL TO WITHIN 20mm OF THE EDGE OF THE OPENING. EXTEND GYPSUM WALL BOARD TO THE EDGE OF THE PIPE OR CONDUIT. SEAL ALL GAPS WITH FIRE RATED OR ACOUSTIC SEALANT. RECOMMENDED PRODUCT STANDARD: ASTM E 814 (UL 1479) OR CAN/ULC S115, OR AS REQUIRED BY THE AHJ.
8. NO PENETRATIONS TO BE MADE WITHIN 1,200mm OF THE EDGE OF THE DOOR.

1 407 AREA A/B SECOND LEVEL - HYDRONIC CONSTRUCTION
SCALE: 1:150

2 407 AREA C SECOND LEVEL - HYDRONIC CONSTRUCTION
SCALE: 1:150

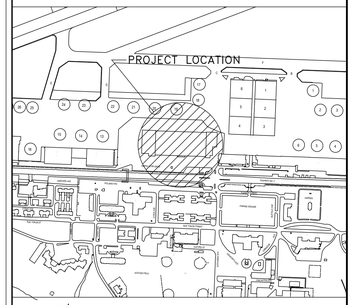
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

GENERAL NOTES:

1. ALL MECHANICAL ITEMS INDICATED ON THIS DRAWING ARE EXISTING TO REMAIN UNLESS INDICATED OTHERWISE.
2. ALL HVAC CONTROLS ARE TO BE NEW DCC CONTROLS. CONTRACTOR TO RETAIN THE SERVICES OF A QUALIFIED CONTROLS CONTRACTOR TO PERFORM INSULATION TESTING COMMISSIONING OF NEW SYSTEM. NEW CONTROLS TO BE COMPATIBLE WITH EXISTING "RELIABLE CONTROLS" BAS SYSTEM.

LICENSED PROFESSIONAL ENGINEER S.E.M. BOUCY 100157680 2025/03/28 PROVINCE OF ONTARIO

NO.	DATE	REVISION	APPR.
6	2025/03/28	ISSUED FOR TENDER	S.S
5	2025/02/24	ISSUED FOR TENDER	S.S
4	2020/10/07	ISSUED FOR TENDER	S.S
3	2020/08/19	ISSUED FOR 100% SUBMISSION	S.S
2	2020/05/19	ISSUED FOR 90% SUBMISSION	S.S

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
MECHANICAL	2020/01/08

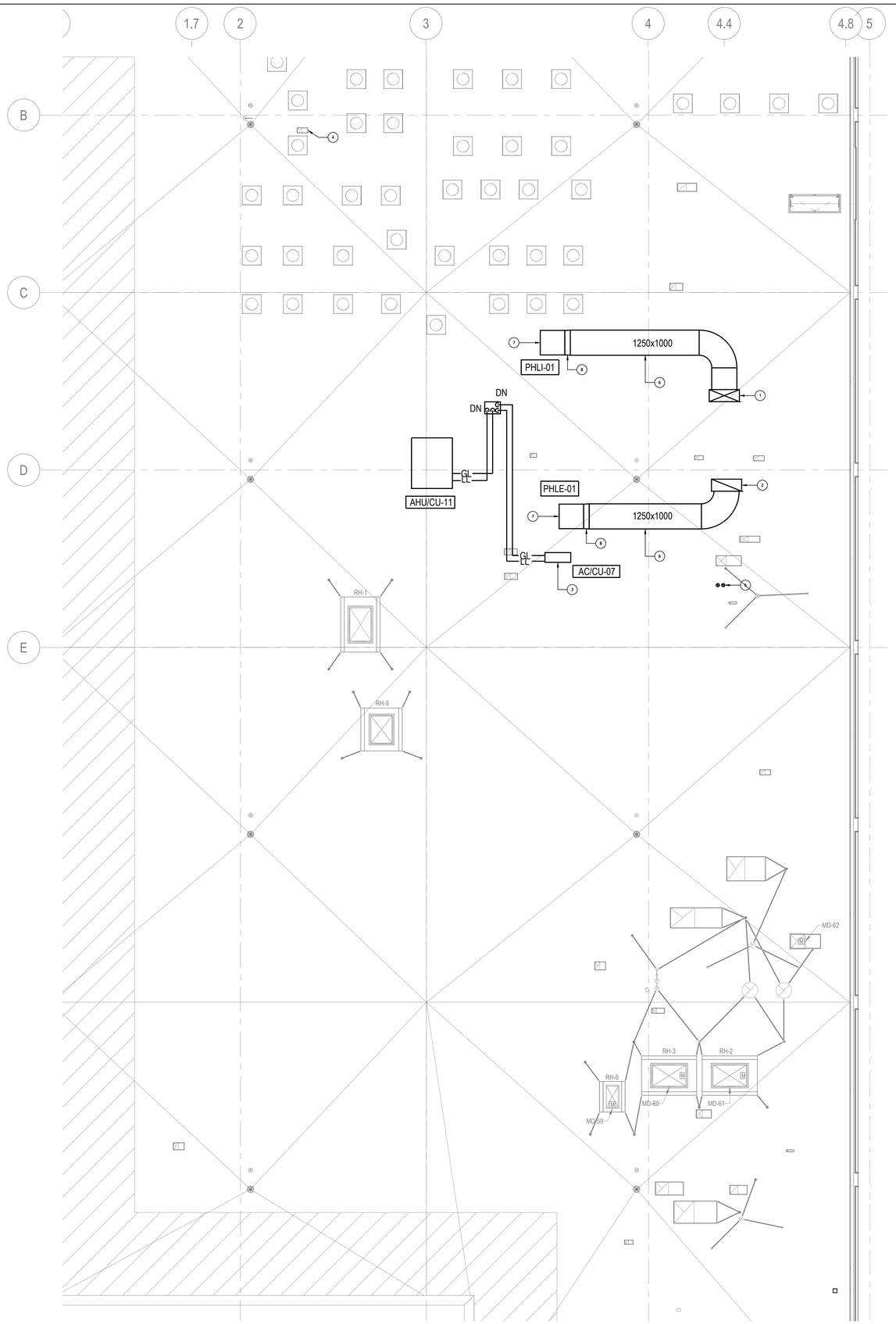
SUBJECT | SUJET
SECOND LEVEL HYDRONIC CONSTRUCTION PLAN

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ S.S.	XX | XX	DES O | AGENT CONC S.CHINNATAMBY
DRAWN | DESSINÉ C.K.	XX | XX	PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED | VÉRIFIÉ	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION		FIRE | INCENDIE CAPT. CAMPBELL

WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

DWG. NO. | NO. DESSIN
L-T81-3019/2- 407

Canada



1 / 408 AREA A/B SECOND LEVEL - HYDRONIC CONSTRUCTION

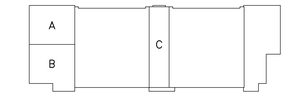
SCALE: 1:150

DRAWINGS NOTES

1. OUTSIDE AIR INTAKE GOOSENECK FOR NEW AHU-11 C/W BIRDSCREEN.
2. EXHAUST GOOSENECK FOR NEW AHU-11 C/W BIRDSCREEN.
3. REFER TO DETAIL 7/411 FOR A/C CONDENSER ROOFTOP STAND DETAIL.
4. EXISTING EXHAUST GOOSENECK TO BE REMOVED AND CAPPED.
5. PROVIDE 80Ø COMBUSTION AIR INTAKE AND VENT FOR NEW HU-AHU-11. PROVIDE TERMINATION 2000MM ABOVE FINISH ROOF TO AVOID BLOCKING BY EXPECTED SNOWFALL. CONTRACTOR TO PROVIDE SUPPORT AND GUY WIRES AS REQUIRED AS PER MANUFACTURER RECOMMENDATION AND PER CAN/CSA B149, LATEST EDITION.
6. NEW DUCTWORK ON THE ROOF C/W THERMAL INSULATION, ALUMINUM CLADDING AND ROOF SUPPORT. CONTRACTOR TO PROVIDE SEISMIC ROOF SUPPORT AND PROVIDE STAMPED SHOP DRAWING FROM QUALIFIED SEISMIC ENGINEER.
7. NEW ROOF VENTILATOR LOCATED ON TOP OF NEW DUCTWORK ON ROOF. THERE ARE TO BE LOCATED A MINIMUM 12M FROM EDGE OF ROOF.
7. NEW DUCTWORK TO BE CONNECTED DIRECTLY TO ONE SIDE OF PENTHOUSE LOUVER. ELEVATIONS BETWEEN DUCTWORK AND PENTHOUSE INSTALLATION SHALL BE CONFIRMED PRIOR TO CONSTRUCTION.

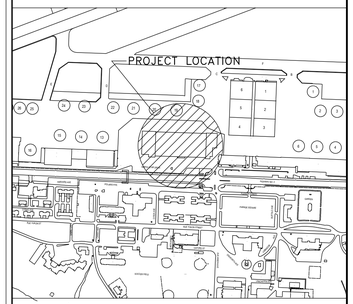
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N. T. S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N. T. S.

GENERAL NOTES:

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LICENSED PROFESSIONAL ENGINEER S. E. M. SOUCY 100753361 PROVINCE OF ONTARIO 2025/03/28

NO.	DATE	REVISION	APPR.
6	2025/03/28	ISSUED FOR TENDER	S.S
5	2025/02/24	ISSUED FOR TENDER	S.S
4	2020/10/07	ISSUED FOR TENDER	S.S
3	2020/08/19	ISSUED FOR 100% SUBMISSION	S.S
2	2020/05/19	ISSUED FOR 90% SUBMISSION	S.S

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
MECHANICAL	2020/01/08

SUBJECT | SUJET
HVAC ROOF CONSTRUCTION PLAN

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ S.S.	XX | XX	DES O | AGENT CONC S.CHINNATAMBY
DRAWN | DESSINÉ C.K.	XX | XX	PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED | VÉRIFIÉ	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION		FIRE | INCENDIE CAPT. CAMPBELL

WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

DWG. NO. | NO. DESSIN
L-T81-3019/2- 408

Canada

SCHEDULE No. 01 - AIR HANDLING UNIT

ID	LOCATION	WEIGHT	DIMENSION [LxWxH]	SUPPLY FAN						RETURN/EXHAUST FAN						EXTERNAL				HEATING COIL							COOLING COIL								NOTE
				FLOW	STATIC PRESSURE		POWER	ELECTRICAL			FLOW	STATIC PRESSURE		POWER	ELECTRICAL			PRE-FILTER		FILTER		TOTAL CAPACITY	# OF COILS	FLUID TYPE	AIR TEMPERATURE		FLUID		FLOW	PD	TOTAL CAPACITY	SENSIBLE CAPACITY	AIR TEMPERATURE				REF.	
					EXTERNAL	TOTAL		POWER	SUPPLY	FLC		EXTERNAL	TOTAL		POWER	SUPPLY	FLC	TYPE	EFFICIENCY	TYPE	EFFICIENCY				EAT	LAT	EWT	LWT					EAT	EAT	LAT	LAT		
		[KG]	[mm]	[l/s]	[Pa]	[Pa]	[BHP]	[HP]	[V/Ph/Hz]	[A]	[l/s]	[Pa]	[Pa]	[BHP]	[HP]	[V/Ph/Hz]	[A]					[KW]			[DB °C]	[DB °C]	[°C]	[°C]	[l/s]	[kPa]	[KW]	[KW]	[DB °C]	[WB °C]	[DB °C]	[WB °C]		
AHU-11	2nd FLOOR MECH	1785	5690x1930x1524	4908	375	975	11.010	15.0000	575/60/3	14	4908	250	290	5.860	7	575/60/3	8.010	PLEATED	MERV 8	VARICEL SH CARTRIDGE	MERV 14	37	2	GLYCOL	15	21	136	47	0.850	3.900	93	71	25	18	13	12	R32	1,2

NOTES:
1. C/W FILTER,ECONOMIZER, R-13 INJECTED FOAM INSULATION
2. AHU MUST COME IN SECTIONS IN ORDER TO FIT THROUGH ACCESS DOOR FOR INSTALLATION.

SCHEDULE No. 02 - CONDENSING UNIT

ID	LOCATION	WEIGHT	DIMENSION [LxWxH]	CONDENSING SECTION						NOTES
				CAPACITY	COMPRESSOR					
					QUANTITY	TYPE	REFRIGE RANT	SUPPLY	MCA	
		[KG]	[mm]	[kW]				[V/Ph/Hz]	[A]	
AHU/CU-11	2nd FLOOR MECH	1120	2451x1933x2100	95	2	SCROLL	R32	575/60/3	52	1,2

NOTES:
1. C/W REFRIGERATION SERVICE VALVES, HGBP TEE, CONDENSER WITH BUILT IN HAIL PROTECTION
2. C/W SEISMIC VIBRATION ISOLATION SPRINGS

SCHEDULE No. 03- TERMINAL UNIT SCHEDULE

ID	CAPACITY [L/S]		VOLT/PH/HZ	NOTES
	MAXIMUM	MINIMUM		
VAV-41	309	56	120/1/60	1, 2
VAV-42	459	80	120/1/60	1, 2
VAV-43	70	11	120/1/60	1, 2
VAV-44	406	62	120/1/60	1, 2
VAV-45	98	11	120/1/60	1, 2
VAV-46	135	17	120/1/60	1, 2
VAV-47	324	49	120/1/60	1, 2
VAV-48	406	71	120/1/60	1, 2
VAV-49	412	75	120/1/60	1, 2
VAV-50	180	26	120/1/60	1, 2
VAV-51	140	26	120/1/60	1, 2
VAV-52	47	14	120/1/60	1, 2
VAV-53	47	14	120/1/60	1, 2
VAV-54	268	33	120/1/60	1, 2
VAV-55	32	0	120/1/60	1, 2
VAV-56	32	0	120/1/60	1, 2
VAV-57	159	24	120/1/60	1, 2
VAV-58	550	135	120/1/60	1, 2
VAV-59	121	0	120/1/60	1, 2
VAV-60	51	11	120/1/60	1, 2
VAV-61	104	13	120/1/60	1, 2
VAV-62	230	39	120/1/60	1, 2
VAV-63	228	33	120/1/60	1, 2
VAV-64	136	23	120/1/60	1, 2
VAV-65	180	26	120/1/60	1, 2
VAV-66	47	14	120/1/60	1, 2
VAV-67	47	14	120/1/60	1, 2
VAV-68	71	21	120/1/60	1, 2
VAV-69	282	85	120/1/60	1, 2
VAV-70	282	85	120/1/60	1, 2
VAV-71	658	200	120/1/60	1, 2
VAV-72	564	170	120/1/60	1, 2

NOTE:
1. C/W DISCHARGE SILENCER, AIRFLOW MEASUREMENT SENSOR, ELECTRONIC DDC MODULE FOR ROOM SENSOR AND AIR FLOW MEASUREMENT, DAMPER AND SENSOR TUBING.
2. C/W BACNET BAS COMPATIBILITY.

SCHEDULE No. 04 - GRILLES & DIFFUSERS

ID #	DUTY	TYPE	DIMENSIONS [mm]	NOTES
S1	SUPPLY	4-WAY CEILLING DIFFUSER	600x600	1
R1	RETURN	EGG-CRATE	600x150	

NOTES:
1. NECK SIZE AS SHOWN ON DRAWING.

SCHEDULE No. 05 - WALL FINS

ID	LOCATION	CAPACITY [KW]	FLOW [L/S]	EWT	LWT	NOTES
WF-01	ROOM 2040	7.0	0.167	60	50	1
WF-02	ROOM 2040	3.0	0.072	60	50	1
WF-03	ROOM 2053	2.5	0.060	60	50	1
WF-04	ROOM 2052	1.75	0.042	60	50	1
WF-05	ROOM 2051	2.0	0.48	60	50	1
WF-06	ROOM 2050	6.5	0.155	60	50	1
WF-07	ROOM 2050	3.25	0.310	60	50	1
WF-08	ROOM 2050	3.25	0.310	60	50	1
WF-09	ROOM 2050	3.25	0.310	60	50	1
WF-10	ROOM 2050	3.25	0.310	60	50	1
WF-11	ROOM 2050	3.25	0.310	60	50	1

NOTES:
1. C/W PAINTED WALL ENCLOSURE, BALANCING VALVE, STRAINER AND SHUT-OFF VALVES ON SUPPLY AND RETURN.

SCHEDULE No. 06 - AIR CONDITIONING

ID #	LOCATION	TYPE	GENERAL					INDOOR UNIT				OUTDOOR UNIT		NOTES
			REFRIGERANT TYPE	CAPACITY	SEER	EER	ELECTRICAL	AIR FLOW Lo-Med-Hi	MOISTURE REMOVAL	SOUND Lo-Med-Hi	MAX. FUSE	SOUND	BREAKER	
				[KW]				[l/s]	[PINTS/HR]	[dB(A)]	[AMP]	[dB(A)]	[AMP]	
AC/CU-01	ROOM 2036	SPLIT-DUCTLESS	R-410	3.51	15.2	10.1	208/1/60	150-174-200	2.0	36-40-43	15	46	15	1-3

NOTES:
1. C/W HARD WIRED THERMOSTAT AND NO WIRELESS CAPABILITIES.
2. ULTRA-LOW AMBIENT COOLING (-40°C) C/W WINDSCREENS.
3. C/W SEISMIC SUPPORT BASE ANCHORED TO ROOF DUCT.

SCHEDULE No. 7 - PUMPS

ID #	APPLICATION	FLOW	HEAD	FLUID	ELECTRICAL					NOTES
		[L/s]	[kPa]		[V]	[Ph]	[Hz]	[H.P.]	[RPM]	
SP-1A/B	GLYCOL PUMP	1.6	74.7	40% PROPYLENE GLYCOL	208	3	60	0.379	3602	1,2

NOTES:
1. PUMP BODY CONSTRUCTION: CAST IRON, IMPELLER: POLY-PHENYLENE SULFIDE, SHAFT: AISI 420 STAINLESS STEEL, ROTOR: PERMANENT MAGNET, BEARING: CARBON SLEEVE, GASKET/O-RING: EPDM, ALL OTHER WETTED PARTS: AISI 304 STAINLESS STEEL, MOTOR TYPE: ELECTRONICALLY COMMUTATED MOTOR/PERMANENT MAGNET, MOTOR INSULATION CLASS: F.
2. C/W VARIABLE SPEED DRIVE SUPPLIED BY THE PUMP MANUFACTURER C/W INPUT DISCONNECT SWITCH, HOA SELECTOR SWITCH, DC SPEED SIGNAL FOLLOWER, % SPEED DISPLAY. PUMPS TO OPERATION IN PRIMARY/STANDBY CONFIGURATION WITH AUTOMATIC SWITCH-OVER EVERY 10 DAYS (FIELD ADJUSTABLE).

SCHEDULE No. 8 - HEAT EXCHANGERS

ID #	TYPE	APPLICATION	CAPACITY	PRIMARY FLUID (HOT SIDE)					SECONDARY FLUID (COLD SIDE)					NOTES
				FLUID TYPE	FLOW	EWT	LWT	Δ P	FLUID TYPE	FLOW	EWT	LWT	Δ P	
			[KW]		[L/s]	[°C]	[°C]	[kPa]		[L/s]	[°C]	[°C]	[kPa]	
HX-01	PLATE	AHU11 GLYCOL	67	WATER	1.47	60	49	13.4	40% PG	1.57	46	57	18.2	

SCHEDULE No. 9 - HUMIDIFIER

ID	TYPE	DUCT DIMENSIONS [mm x mm]	FLOW	BEFORE DISPERSION		AFTER DISPERSION		HUMIDIFIED SPACE		CAPACITY [kg/h]	CONTROL INPUT	INPUT [kW]	ELECTRICAL				GAS CONNECTION SIZE [mm]	NOTES
			[L/S]	[%RH]	DB [°C]	[%RH]	DB [°C]	[%RH]	DB [°C]				[VOLT]	[PHASE]	[Hz]	[A]		
HU-AHU-1	NATURAL GAS-FIRED	1500x600	7520	47	51	51	65	40	72	23	MODULATING	18	120	1	60	2	25Ø NPT FEMALE	1, 2, 3

NOTES:
1. PROVIDE HIGH TEMPERATURE CONDENSATE PUMP 120V/1/60Hz, 3.5A FOR STEAM CONDENSATE RETURN PIPING. PROVIDE ELECTRICAL FEED TO CONDENSATE PUMP.
2. STEAM DISTRIBUTION NOZZLE IS TO BE INSTALLED IN THE HORIZONTAL DUCT RUN ON SUPPLY DUCTWORK.
3. PROVIDE STEAM LINE AS PER MANUFACTURE INSTRUCTION.

SCHEDULE No. 10 - HYDRONIC ACCESSORIES

ID #	DESCRIPTION	CONNECTIONS [mm]	NOTES
AS-1	COMBINATION AIR & DIRT SEPERATOR	50Ø	
ET-01	HYDRONIC EXPANSION TANK	19Ø	1
SF-01	SYSTEM FEEDER	19Ø	2

NOTES:
1. TANK VOLUME: 33L, MAX ACCEPT. VOLUME: 12.1
2. POWER SUPPLY: 120/60/1, 40% PROPOLENE GLYCOL, TANK VOLUME: 208 L.

SCHEDULE No. 11 - PLUMBING FIXTURES

ID	DESCRIPTION	ACCESSORIES	BARRIER FREE	CONNECTIONS		
				SAN	DCW	DHW
L-1	DROP-IN LAVATORY, VITREOUS CHINA, 102 MM (4") CENTERSET, COUNTER MOUNTED, WHITE FINISH, TWO (2) REAR OVERFLOW HOLES, OVERALL DIMENSIONS: 533MM (21") LONG, 445MM (17-1/2") WIDE, 165MM (6-1/2") HIGH, BOWL DIMENSIONS: 441MM (17-3/8") LONG, 279MM (11") WIDE, 133MM (5-1/4") DEEP.	0.5GPM FAUCET, 102 MM (4") CENTERSET, , BRASS SPOUT 116MM (4-9/16") SOUT REACH AND 92MM (3-5/8") HIGH 1.9 LPM (0.5 GPM) MAXIMUM FLOWRATE, SELF-ADAPTING INFRARED SENSOR RECESSED FAUCET VALVE POWER KIT, TEMPERED WATER MIXER MIXING VALVE,FIXTURE DRAIN, COMMERCIAL FAUCET SUPPLY KIT P-TRAP MOLDED CLOSED CEILL VINYL WITH CLEANOUT	YES	38Ø	13Ø	13Ø
WC-1	WALL-HUNG WITH WALL OUTLET, VITREOUS CHINA, ANTIMICROBIAL SURFACE, TOILET OPERATES IN THE RANGE OF 4.2 TO 6.0 LPF (1.1 - 1.6 GPF), FULLY-GLAZED 54 MM (2-1/8") TRAPWAY, WHITE FINISH, HEIGHT DEPENDS ON INSTALLATION (CHECK LOCAL CODES), ELONGATED BOWL, FOR FLUSH VALVE	FLUSH VALVE: HIGH EFFICIENCY 4.8 LPF (1.28 GPF), AUTOMATIC NO-TOUCH, CHROME FINISH, SELF ADAPTIVE INFRARED SENSOR, RECESSED FLUSH VALVE POWER KIT. SEAT: COMMERCIAL HEAVY DUTY OPEN FRONT FOR ELONGATED BOWL, WHITE, POLYPROPYLENE PLASTIC FAUCET AND FLUSH VALVE POWER KIT CARRIER: CLOSET CARRIER, INDUSTRY STANDARD BACK-TO-BACK HORIZONTAL ADJUSTABLE CLOSET CARRIER, 500LB (227KG), ADJUSTABLE FOR STANDARD AND WHEELCHAIR HEIGHT, EPOXY COATED CAST IRON COUPLING: SHIELDED NO-HUB COUPLING WALL MOUNTING BACKREST	YES	75Ø	25Ø	-
WC-2	WALL-HUNG WITH WALL OUTLET, VITREOUS CHINA, ANTIMICROBIAL SURFACE, TOILET OPERATES IN THE RANGE OF 4.2 TO 6.0 LPF (1.1 - 1.6 GPF), FULLY-GLAZED 54 MM (2-1/8") TRAPWAY, WHITE FINISH, HEIGHT DEPENDS ON INSTALLATION (CHECK LOCAL CODES), ELONGATED BOWL, FOR FLUSH VALVE	FLUSH VALVE: HIGH EFFICIENCY 4.8 LPF (1.28 GPF), AUTOMATIC NO-TOUCH, CHROME FINISH, SELF ADAPTIVE INFRARED SENSOR, RECESSED FLUSH VALVE POWER KIT. SEAT: COMMERCIAL HEAVY DUTY OPEN FRONT FOR ELONGATED BOWL, WHITE, POLYPROPYLENE PLASTIC FAUCET AND FLUSH VALVE POWER KIT CARRIER: CLOSET CARRIER, INDUSTRY STANDARD BACK-TO-BACK HORIZONTAL ADJUSTABLE CLOSET CARRIER, 500LB (227KG), ADJUSTABLE FOR STANDARD AND WHEELCHAIR HEIGHT, EPOXY COATED CAST IRON COUPLING: SHIELDED NO-HUB COUPLING WALL MOUNTING BACKREST	NO	75Ø	25Ø	-
SC-1	STAINLESS STEEL, TYPE 304, 18 GAUGE, COUNTER MOUNTED, WITH FAUCET LEDGE, SINGLE COMPARTMENT, COMMERCIAL SINKS, BOWL DIMENSIONS 406MM (16") LONG, 356MM (14") WIDE, 152MM (6") DEEP, OVERALL DIMENSIONS 460MM (18-1/8") LONG, 478MM (18-13/16") WIDE, 152MM (6") HIGH	COUNTER MOUNTED FAUCETS MANUAL, SINGLE HANDLE, POLISHED CHROME FINISH, SINGLE HOLE CENTERSET, 5.7LPM (1.5GPM) MAXIMUM FLOWRATE COMMERICAL FAUCET SUPPLY KIT, CHROME-PLATED FINISH, P-TRAP MOLDED CLOSED CEILL VINYL WITH CLEANOUT	YES	38Ø	13Ø	13Ø
SC-2	STAINLESS STEEL, TYPE 304, 18 GAUGE, COUNTER MOUNTED, WITH FAUCET LEDGE, SINGLE COMPARTMENT, COMMERCIAL SINKS, BOWL DIMENSIONS 406MM (16") LONG, 356MM (14") WIDE, 152MM (6") DEEP, OVERALL DIMENSIONS 460MM (18-1/8") LONG, 478MM (18-13/16") WIDE, 152MM (6") HIGH	WALL-HUNG, MANUAL, TWO HANDLES, SINK FAUCET, POLISHED CHROME FINISH, 203 MM (8") CENTERSET, LEAD FREE ANSI/NSF 61 COMPLIANT ECAST® BRASS CONSTRUCTION, 10 MM (3/8") OFFSET INLET SUPPLY ARMS, QUATURN™ COMPRESSION CARTRIDGE (90° TURN), 5.7 LPM (1.5 GPM) MAXIMUM FLOWRATE, PLAIN END OUTLET WITH LAMINAR FLOW CONTROL INSERT IN SPOUT INLET, RIGID/SWING GOOSENECK SPOUT, 203 MM (8") SPOUT REACH, 295 MM (11-5/8") HIGH, VANDAL-RESISTANT 102 MM (4") WRIST BLADE HANDLES WITH INDEXED BUTTONS, 13 MM (1/2") NPT FEMALE THREAD INLET.	NO	38Ø	13Ø	13Ø
SC-3	203 MM (8") CENTERSET, WITHOUT FAUCET LEDGE, GRADE 18-10 16 GAUGE TYPE 304 STAINLESS STEEL POLISHED TO #4 SATIN FINISH, FINISHED WITH ROLLED RIM, WITH BACKSPLASH, RADIUS COVED CORNERS ON FRONT AND BACK ONLY, NO DRAINBOARD, STAINLESS STEEL TUBULAR LEGS WITH ADJUSTABLE FEET FOR LEVELING, CENTER WASTE LOCATION, 38 MM (1-1/2") (DN38) BRASS TAILPIECE, 89 MM (3-1/2") CRUMB CUP STRAINER, WASTE FITTING INCLUDED, COMPLIANCES AND CERTIFICATIONS: ASME A112.19.3 COMPLIANT, CSA B45.4 COMPLIANT, BOWL DIMENSION: LEFT BOWL IS 610 MM (24") LONG AND RIGHT BOWL IS 610 MM (24") LONG, LEFT BOWL IS 610 MM (24") WIDE AND RIGHT BOWL IS 610 MM (24") WIDE, LEFT BOWL IS 356 MM (14") DEEP AND RIGHT BOWL IS 356 MM (14") DEEP, OVERALL DIMENSION: 1305 MM (51-3/8") LONG, 691 MM (27-3/16") WIDE, 1118 MM (44") HIGH.	WALL-HUNG, MANUAL, TWO HANDLES, PRE-RINSE FITTING, CHROME-PLATED FINISH, 203 MM (8") CENTERSET, LEAD FREE ECAST® BRASS CONSTRUCTION, 1/4 TURN CERAMIC CARTRIDGE WITH INTEGRATED CHECK VALVE, 3.8 LPM (1.0 GPM) FLOWRATE @60 PSI PRE-RINSE SPRAY VALVE, SPRAY OUTLET, SWIVEL PRE-RINSE SPOUT, PULL DOWN, 292 MM (11-1/2") SPOUT REACH, 1146 MM (45-1/8") HIGH, PRE-RINSE SPOUT AND VALVE CONSISTING OF 584 MM (23") RISER WITH SPRING GUIDE, 1118 MM (44") FLEXIBLE STAINLESS STEEL HOSE WITH INSULATED HANDLE, PIPE STRAP AND HOOK ASSEMBLY, VANDAL-RESISTANT 60 MM (2-3/8") LEVER HANDLE WITH INDEXED BUTTONS, 13 MM (1/2") NPT FEMALE THREAD INLET.	NO	38Ø	13Ø	13Ø
FFD-1	FUNNEL, FLOOR DRAIN, ANCHOR FLANGE, REVERSIBLE MEMBRANE CLAMP, COLLAR WITH PRIMARY AND SECONDARY WEEPHOLES EPOXY COATED CAST IRON, STANDARD BODY MATERIAL	STRIANER 102 X 229 MM (4" X 9") "EG" ELONGATED OVAL NICKEL BRONZE FUNNEL	N/A	75Ø	-	-
TP	TRAP PRIMER MANIFOLD FOR 1 TO 4 FLOOR DRAINS	COMPRESSION FITTINGS SOLDER JOINTS 95-5 LEAD FREE SOLENOID VALVE 120V		-	13Ø	-

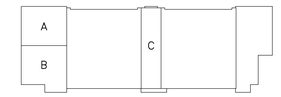
SCHEDULE NO. 12 - ROOFTOP PENTHOUSE LOUVER

ID #	APPLICATION	AIRFLOW [L/S]	S.P. DROP [Pa]	DIMENSIONS HxLxW [mm]	NOTES
PHLI-01	INTAKE	4908	24.900	1219x1219x1219	1,2,3,4
PHLE-01	EXHAUST	4908	31.100	1219x1219x1219	1,2,3,4,5

NOTES:
1. THREE SIDED PENTHOUSE LOUVER. DUCTWORK TO BE CONNECTED TO ONE SIDE OF THE PENTHOUSE LOUVER.
2. C/W HIGH INSULATED SEISMIC ROOF CURB. CONTRACTOR TO PROVIDE SHOP DRAWINGS STAMPED BY PROFESSIONAL ENGINEER FOR SEISMIC AND WIND LOAD REQUIREMENTS.
3. CERTIFIED FOR STATIC AND CYCLIC WIND LOADING.
4. DESIGN TO WITHSTAND WIND LOADS UP TO 70 PSF WITH NO TIE-DOWNS REQUIREMENTS.
5. C/W BACKDRAFT DAMPER

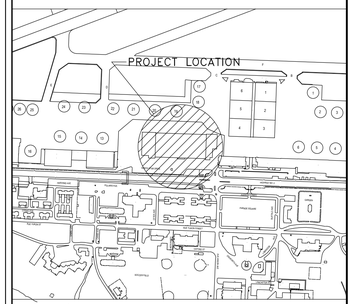
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N. T. S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N. T. S.

NO.	DATE	REVISION	APPR.
6	2025/03/28	ISSUED FOR TENDER	S.S
5	2025/02/24	ISSUED FOR TENDER	S.S
4	2020/10/07	ISSUED FOR TENDER	S.S
3	2020/08/19	ISSUED FOR 100% SUBMISSION	S.S
2	2020/05/19	ISSUED FOR 90% SUBMISSION	S.S

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE	MÉTIER	DATE
MECHANICAL		2020/01/08

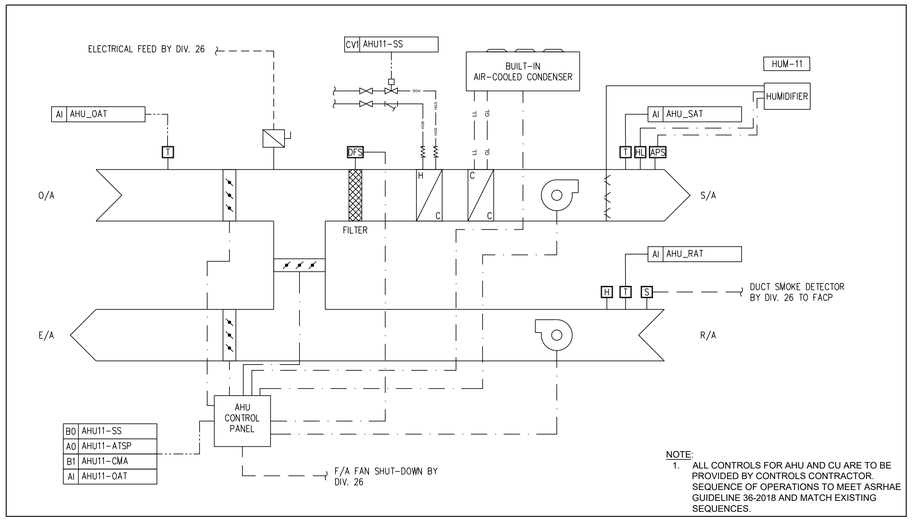
SUBJECT | SUJET
MECHANICAL SCHEDULES

PRODUCTION	REVIEWED	REVU
DESIGNED	ÉTUDIÉ S.S.	XX | XX	DES O | AGENT CONC S.CHINNATAMBY
DRAWN	DESSINÉ C.K.	XX | XX	PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED	VÉRIFIÉ	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION			FIRE | INCENDIE CAPT. CAMPBELL

WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

DWG. NO. | NO. DESSIN
L-T81-3019/2- 409

Canada



NOTE:
1. ALL CONTROLS FOR AHU AND CU ARE TO BE PROVIDED BY CONTROLS CONTRACTOR. SEQUENCE OF OPERATIONS TO MEET ASRHAE GUIDELINE 36-2018 AND MATCH EXISTING SEQUENCES.

1/410 NEW AHU-11 SCHEMATIC
SCALE: N.T.S.

NOTE:
1. ALL CONTROLS FOR AHU AND CU ARE TO BE PROVIDED BY CONTROLS CONTRACTOR SEQUENCE OF OPERATIONS TO MEET ASRHAE GUIDELINE 36-2018 AND MATCH EXISTING SEQUENCES.

2/410 NEW HYDRONIC LOOP TO NEW AHU-11
SCALE: N.T.S.

SEQUENCE OF OPERATIONS

HVAC MODES OF OPERATION

IN THIS CONFIGURATION, UPON ENTERING THE OCCUPIED MODE (AFTER A MORNING WARM-UP/COOL-DOWN CYCLE) THE UNIT OPERATES IN THE COOLING MODE AND CONTROLS TO THE SAT COOLING SETPOINT

OCCUPIED MODE INITIATION

THERE ARE SEVERAL WAYS TO INITIATE THE OCCUPIED MODE OF OPERATION:

- THE CONTROLLER'S INTERNAL WEEK SCHEDULE
- REMOTE FORCED OCCUPIED CONTACT CLOSURE (CAN BE USED IN PLACE OF, OR IN CONJUNCTION WITH, THE CONTROLLER'S INTERNAL SCHEDULE).

CONTROLLER SCHEDULING

- HAS AN INTERNAL 7 DAYS SCHEDULE WITH 2 START/STOP EVENTS PER DAY.
- ALLOWS SCHEDULING OF UP TO 14 HOLIDAY PERIODS PER YEAR.
- ALLOWS DAYLIGHT SAVINGS TIME CONFIGURATION.

UNOCCUPIED OPERATION

- A SPACE TEMPERATURE & HUMIDITY SENSOR SHALL BE INSTALLED. THE UNIT SHALL BE CONFIGURED TO USE NIGHT SETBACK OFFSETS FOR HEATING AND COOLING CALLS AND THE NORMAL DEHUMIDIFICATION SETPOINT FOR DEHUMIDIFICATION CALLS.
- THE OUTDOOR AIR DAMPER WILL BE CLOSED EXCEPT IF THE UNIT IS IN UNOCCUPIED ECONOMIZER FREE COOLING MODE.
- IF THERE IS NO CALL FOR HEATING OR COOLING, OR IF NIGHT SETBACK OPERATION HAS NOT BEEN CONFIGURED, THE UNIT WILL BE OFF.

HVAC MODES OF OPERATION

THERE ARE 6 POSSIBLE HVAC MODES OF OPERATION:

- COOLING MODE
- HEATING MODE
- VENT MODE
- DEHUMIDIFICATION MODE
- MORNING WARM-UP/ COOL-DOWN MODE
- OFF MODE

COOLING MODE WITH LEAD VARIABLE CAPACITY COMPRESSOR AND FIXED SECOND STAGE COMPRESSOR

- IN THE COOLING MODE, AS THE SUPPLY AIR TEMPERATURE (SAT) RISES ABOVE THE ACTIVE SUPPLY AIR COOLING SETPOINT (SEE SUPPLY AIR TEMPERATURE SETPOINT RESET SECTION FOR EXPLANATION), COMPRESSORS WILL MODULATE AND STAGE BASED ON THE UNIT CONFIGURATION IN ORDER TO CONTROL TO THE ACTIVE SUPPLY AIR COOLING SETPOINT.
- EACH STAGE MUST MEET ITS MINIMUM OFF TIME (ADJ.) BEFORE IT IS ALLOWED TO ENERGIZE AND SUCCESSIVE STAGES CAN ENERGIZE IF THE SAT RISES ABOVE THE ACTIVE SUPPLY AIR COOLING SETPOINT FOR THE COOLING STAGE UP DELAY PERIOD (ADJ).
- FOR COMPRESSORS TO STAGE DOWN, MINIMUM RUN TIMES (ADJ.) MUST BE SATISFIED, AND THE SAT NEEDS TO BE BELOW THE ACTIVE SUPPLY AIR COOLING SETPOINT MINUS THE COOLING STAGE CONTROL FOR A PERIOD OF TIME EQUAL TO THE STAGE DOWN DELAY.
- MECHANICAL COOLING IS DISABLED IF THE OUTDOOR AIR TEMPERATURE (OAT) FALLS 1° BELOW THE COOLING LOCKOUT SETPOINT OF 35 DEG F AND WILL REMAIN DISABLED UNTIL THE OAT RISES 1° ABOVE THE COOLING LOCKOUT SETPOINT. IF THE OAT DISABLES MECHANICAL COOLING WHILE IT IS CURRENTLY OPERATING, MECHANICAL COOLING WILL STAGE OFF AS MINIMUM RUN TIMES AND STAGE DOWN DELAYS ARE SATISFIED.
- THE ECONOMIZER WILL FUNCTION AS THE FIRST STAGE OF COOLING (SEE ECONOMIZER SECTION).

HEATING MODE

- HEATING SHALL BE INITIATED FOR MORNING WARM UP OR FOR SUPPLY AIR TEMPERING OPERATION. SEE THOSE SECTIONS FOR DETAILS OF HOW THOSE OPERATIONS ARE INITIATED.
- IN THE HEATING MODE, AS THE SUPPLY AIR TEMPERATURE FALLS BELOW THE ACTIVE SUPPLY AIR HEATING SETPOINT (SEE SUPPLY AIR TEMPERATURE SETPOINT RESET SECTION FOR EXPLANATION), THE HEATING WILL BEGIN TO STAGE ON AND MODULATE.
- HEATING WILL CONTINUE TO RUN UNTIL THE SUPPLY AIR TEMPERATURE RISES ABOVE THE ACTIVE SUPPLY AIR TEMPERATURE SETPOINT PLUS THE HEATING STAGE CONTROL WINDOW AT WHICH POINT THE HEATING WILL STAGE OFF. EACH HEATING CYCLE MUST MEET ITS MINIMUM RUN TIME (ADJ.) BEFORE IT IS ALLOWED TO STAGE OFF, AND SUCCESSIVE HEATING CYCLES ARE SUBJECT TO A HEATING STAGE DOWN DELAY (ADJ.).
- MECHANICAL HEATING IS DISABLED IF THE OUTDOOR AIR TEMPERATURE (OAT) RISES 1° ABOVE THE HEATING LOCKOUT SETPOINT AND WILL REMAIN DISABLED UNTIL THE OAT FALLS 1° BELOW THE HEATING LOCKOUT SETPOINT. IF THE OAT DISABLES MECHANICAL HEATING WHILE IT IS CURRENTLY OPERATING, MECHANICAL HEATING WILL STAGE OFF AS MINIMUM RUN TIMES AND STAGE DOWN DELAYS ARE SATISFIED.

DEHUMIDIFICATION MODE

- AVAILABLE IN ALL MODES WHILE OCCUPIED AND UNOCCUPIED--DEHUMIDIFICATION CAN BE INITIATED ANYTIME IN THE OCCUPIED OR UNOCCUPIED MODE DURING COOLING, HEATING, VENT, OR OFF MODE.

DEHUMIDIFICATION MODE WITH LEAD VARIABLE CAPACITY COMPRESSOR AND SECONDARY FIXED COMPRESSOR

- DEHUMIDIFICATION IS ENABLED WHEN THE INDOOR HUMIDITY RISES ABOVE THE INDOOR HUMIDITY ENABLE/HI RESET SETPOINT AND IS DISABLED WHEN THE INDOOR HUMIDITY FALLS BELOW THE DISABLE/LO RESET SETPOINT AND REQUIRES THE USE OF THE SPACE (OR RETURN AIR) TEMPERATURE & HUMIDITY SENSOR.
- ONCE IN DEHUMIDIFICATION, THE UNIT WILL MODULATE AND STAGE COMPRESSORS BASED ON THE UNIT CONFIGURATION IN ORDER MAINTAIN THE EVAPORATOR COIL SUCTION (SATURATION) TEMPERATURE AT THE COIL SUCTION (SATURATION) TEMPERATURE SETPOINT.
- DEHUMIDIFICATION REHEAT IS ALWAYS CONTROLLED TO THE APPROPRIATE ACTIVE SUPPLY AIR TEMPERATURE SETPOINT WHICH WILL BE DEPENDENT ON THE MODE OF OPERATION. DURING VENT MODE DEHUMIDIFICATION THE SUPPLY AIR TEMPERATURE SETPOINT IS CALCULATED TO BE HALFWAY BETWEEN THE HVAC MODE SETPOINTS.

VENTILATION MODE

- THIS MODE IS ONLY AVAILABLE IN THE OCCUPIED MODE OF OPERATION ON UNITS CONFIGURED FOR CONTINUOUS SUPPLY FAN OPERATION AND IS GENERATED ANYTIME THERE IS NO DEMAND FOR HEATING OR COOLING.
- THE FAN WILL OPERATE AT THE MINIMUM VENT SPEED WHICH IS USER ADJUSTABLE.

MORNING WARM-UP

- THIS MODE OCCURS WHEN THE UNIT GOES FROM THE UNOCCUPIED TO THE OCCUPIED MODE AND THE RETURN AIR TEMPERATURE IS BELOW THE MORNING WARM-UP/COOL-DOWN TARGET SETPOINT.
- DURING MORNING WARM-UP, HEATING IS CONTROLLED TO A WARM-UP SUPPLY AIR SETPOINT. OTHERWISE, IT OPERATES IN THE HEATING MODE AS DESCRIBED ABOVE.
- THIS MODE REMAINS IN EFFECT UNTIL THE RETURN AIR TEMPERATURE RISES ABOVE THE MORNING WARM-UP TARGET TEMPERATURE OR UNTIL A USER ADJUSTABLE TIME PERIOD ELAPSES. THE OUTDOOR AIR DAMPER REMAINS CLOSED DURING THIS MODE.

MORNING COOL-DOWN MODE

- THIS MODE OCCURS WHEN THE UNIT GOES FROM THE UNOCCUPIED TO THE OCCUPIED MODE AND THE RETURN AIR TEMPERATURE IS ABOVE THE MORNING WARM-UP/COOL-DOWN TARGET SETPOINT.
- DURING MORNING COOL-DOWN, COOLING IS CONTROLLED TO A COOL-DOWN SUPPLY AIR SETPOINT. OTHERWISE, IT OPERATES IN THE COOLING MODE AS DESCRIBED ABOVE.
- THIS MODE REMAINS IN EFFECT UNTIL THE RETURN AIR TEMPERATURE DROPS BELOW THE TARGET TEMPERATURE OR A USER-ADJUSTABLE TIME PERIOD EXPIRES.
- THE OUTDOOR AIR DAMPER REMAINS CLOSED DURING COOL-DOWN MODE.

OFF MODE

- OFF MODE OCCURS IN THE UNOCCUPIED MODE WHEN THERE IS NO HEATING, COOLING, OR DEHUMIDIFICATION DEMAND.
- THE SUPPLY FAN IS OFF AND THE OUTSDE AIR DAMPER IS CLOSED.

ECONOMIZER OPERATION

- ENABLED WHEN OUTDOOR AIR DEWPOINT TEMPERATURE FALLS BELOW THE ECONOMIZER ENABLE SETPOINT BY 1° AND THE OA TEMPERATURE IS AT LEAST 5° BELOW THE RETURN AIR TEMPERATURE .
- ECONOMIZER OPERATION IS DISABLED WHEN THE OA TEMPERATURE RISES 1° ABOVE THE ECONOMIZER ENABLE SETPOINT OR IF THE OA TEMPERATURE RISES 1° ABOVE THE RETURN AIR TEMPERATURE (IF AVAILABLE).
- ECONOMIZER ACTS AS 1ST STAGE OF COOLING AND CONTROLS TO THE ACTIVE SUPPLY AIR COOLING SETPOINT. IF THE ECONOMIZER REACHES 100% AND THE SUPPLY AIR TEMPERATURE IS STILL ABOVE SETPOINT, MECHANICAL COOLING IS ALLOWED TO STAGE UP WHILE THE ECONOMIZER IS HELD AT THE FULL OPEN POSITION.
- ECONOMIZER DAMPER IS CLOSED DURING UNOCCUPIED MODE, EXCEPT WHEN UNOCCUPIED FREE COOLING IS USED DURING NIGHT SETBACK OPERATION.

VAV SUPPLY AIR TEMPERING OPERATION USING OUTDOOR AIR TEMPERATURE CONTROL

- USED IN COLD CLIMATES WHEN HEATING MAY BE REQUIRED TO MAINTAIN THE SUPPLY AIR TEMPERATURE (SAT) AT OR NEAR THE COOLING SAT SETPOINT DURING THE OCCUPIED MODE
- OUTDOOR AIR (OA) HOOD-ON COOLING AND HEATING SETPOINTS WILL BE USED TO ENABLE THE COOLING OR HEATING MODES
- IN OA COOLING MODE, THE UNIT WILL CONTROL TO THE COOLING SAT SETPOINT, USING ECONOMIZER IF ENABLED.
- IN THE OA VENT MODE, IF THE SAT IS ABOVE THE COOLING SAT SETPOINT, THE ECONOMIZER WILL BE USED TO CONTROL TO THE COOLING SAT SETPOINT
- IN THE OA HEATING MODE:
  - O IF THE SAT IS ABOVE THE COOLING SAT SETPOINT, THE ECONOMIZER WILL BE USED TO BRING THE SAT DOWN TO THE COOLING SAT SETPOINT.

O IF THE SAT FALLS BELOW THE HEATING SAT SETPOINT (WHICH SHOULD BE SET AT LEAST 2° BELOW THE COOLING SAT SETPOINT TO ALLOW THE ECONOMIZER TO CLOSE), HEATING WILL BE CONTROLLED TO THE HEATING SAT SETPOINT.

- ONCE THE UNIT IS IN THE COOLING OR HEATING MODE IT WOULD OPERATE AS DESCRIBED IN THOSE SECTIONS ABOVE
- MORNING WARM-UP AND/OR MORNING COOL-DOWN CAN OPERATE, AS DESCRIBED IN THOSE SECTIONS ABOVE.
- THE SUPPLY FAN VFD WILL BE CONTROLLED BASED ON DUCT STATIC PRESSURE.

SUPPLY FAN OPERATION

- OCCUPIED MODE – SUPPLY FAN SHALL BE CONFIGURED TO RUN CONTINUOUSLY.
- UNOCCUPIED MODE – SUPPLY FAN WILL CYCLE ON A CALL FOR HEATING, COOLING OR DEHUMIDIFICATION.
- ANYTIME THE SUPPLY FAN IS REQUESTED TO START, A 1 MINUTE MINIMUM OFF TIMER MUST BE SATISFIED. IF THE TIMER IS SATISFIED THE SUPPLY FAN RELAY IS ACTIVATED WHILE ALL OTHER OUTPUTS ARE HELD OFF FOR A PERIOD OF 1-2 MINUTES TO PURGE STAGNATE AIR FROM THE DUCTWORK BEFORE HEATING OR COOLING OCCURS.

DUCT STATIC PRESSURE CONTROL

- THE CONTROLLER SHALL BE USED TO CONTROL THE SUPPLY FAN VFD TO MAINTAIN A DUCT STATIC PRESSURE SETPOINT.
- THE DUCT STATIC PRESSURE SETPOINT, THE SETPOINT DEADBAND, THE STATIC PRESSURE CONTROL SIGNAL, AND THE STATIC CONTROL RATE SHALL ALL BE USER-ADJUSTABLE

HEAD PRESSURE CONTROL

- THE CONTROLLER SHALL MONITOR HEAD PRESSURE TRANSDUCERS AND CONTROL MULTIPLE MODULATING CONDENSER FANS TO MAINTAIN THE HEAD PRESSURE SETPOINT.

SUPPLY AIR TEMPERATURE SETPOINT RESET

- VARIOUS SOURCES CAN BE CONFIGURED TO RESET THE SUPPLY AIR TEMPERATURE (SAT) SETPOINT. SINCE THE SUPPLY AIR TEMPERATURE SETPOINTS ARE NOT FIXED DURING RESET THE ARE REFERRED TO AS "ACTIVE SUPPLY AIR TEMPERATURE SETPOINTS". THE FOLLOWING RESET SOURCE OPTIONS SHALL BE AVAILABLE.
  - O SPACE TEMPERATURE

O RETURN AIR TEMPERATURE

O OUTDOOR AIR TEMPERATURE

O REMOTE VOLTAGE SIGNAL

O FAN VFD PERCENTAGE

- THE HIGH AND A LOW RESET SOURCE SETPOINT MUST BE CONFIGURED THAT WILL CORRESPOND TO CONFIGURED LOW AND HIGH SAT SETPOINTS. THIS SHALL BE DONE SEPARATELY FOR THE COOLING MODE SETPOINTS AND FOR THE HEATING MODE SETPOINTS.
- AS THE RESET SOURCE VALUE MOVES WITHIN ITS RANGE ESTABLISHED BY THE CONFIGURED HIGH AND LOW RESET SETPOINTS, THE SUPPLY AIR SETPOINT WILL BE PROPORTIONALLY RESET WITHIN ITS RANGE ESTABLISHED BY THE CONFIGURED LOW AND HIGH SAT SETPOINTS.

COIL TEMPERATURE RESET DURING DEHUMIDIFICATION

- THE INDOOR HUMIDITY (SPACE OR RETURN AIR) WILL BE USED TO RESET THE COIL (SATURATION) TEMPERATURE SETPOINT DURING DEHUMIDIFICATION.
- A USER ADJUSTABLE INDOOR HUMIDITY RANGE CAN BE CREATED TO PROPORTIONALLY RESET THE COIL (SATURATION) TEMPERATURE SETPOINT WITHIN A USER ADJUSTABLE RANGE.

HUMIDIFICATION

- WHEN AIR PROVING SWITCH (SENSITIVE PRESSURE DIFFERENTIAL SWITCH) FS-1 DETECTS AIR FLOW AND CLOSE THE SWITCH, THEN BAS INITIATES STEAM HUMIDIFIERTO ENABLE MODULATING THE STEAM FLOW TO THE STEAM HUMIDIFICATION ASSEMBLY.
- WHEN AIR PROVING SWITCH (SENSITIVE PRESSURE DIFFERENTIAL SWITCH) FS-1 DOES NOT DETECT AIR FLOW AND OPEN THE SWITCH THEN BAS INITIATES STEAMHUMIDIFIER TO STOP TO PREVENT STEAM FLOW TO THE STEAM HUMIDIFICATION ASSEMELY.
- WHEN AIR HUMIDISTAT HIGH LIMIT DETECTS HIGHER AIR RELATIVE HUMIDITY THAN THE SET POINT, 75%RH (FIELD ADJUSTABLE SETTING 15% TO 95% RH), THEN BAS INITIATES THE STEAM HUMIDIFIER TO STOP TO PREVENT STEAM FLOW TO THE STEAM HUMIDIFICATION ASSEMBLY.
- WHEN AVERAGE ROOM RELATIVE HUMIDITY BELOW OR ABOVE THE SET POINT OF 45% (FIELD ADJUSTABLE), WITH PRESENCE OF AIR FLOW IN THE SUPPLY AIR DUCT AND RELATIVE HUMIDITY OF SUPPLY AIR BELOW HIGH LIMIT SET POINT, THEN BAS TO MODULATE THE STEAM HUMIDIFIER TO REGULATE THE AMOUNT OF STEAM SUPPLYTO THE STEAM HUMIDIFICATION ASSEMBLY TO SATISFY THE AVERAGE ROOM RELATIVE HUMIDITY SET POINT.

BUILDING PRESSURE CONTROL

- THIS SHALL BE USED TO MAINTAIN A USER ADJUSTABLE BUILDING PRESSURE SETPOINT. ON AN INCREASE IN BUILDING STATIC PRESSURE A VFD EXHAUST FAN SHALL BE RAMPED UP TO MAINTAIN THE SETPOINT.

DIRTY FILTER STATUS

- A DIFFERENTIAL PRESSURE SWITCH SHALL BE USED TO PROVIDE A 24 VAC WET CONTACT CLOSURE TO INDICATE A DIRTY FILTER STATUS. A DIRTY FILTER ALARM IS THEN GENERATED.

EMERGENCY SHUTDOWN

- A 24 VAC WET CONTACT INPUT IS AVAILABLE TO BE USED WITH A N.C. SMOKE DETECTOR, FIRESTAT, OR OTHER SHUTDOWN CONDITION OCCURS. IF THIS CONTACT OPENS, IT WILL INITIATE IMMEDIATE SHUTDOWN OF THE CONTROLLER AND WILL GENERATE AN ALARM CONDITION.

REMOTE CONTACT CONTROL

- A REMOTE CONTACT CONTROL OPTION CAN BE CONFIGURED TO INITIATE THE HVAC MODES OF OPERATION.
- ALL HEATING, COOLING, AND DEHUMIDIFICATION MODES WILL ONLY BE INITIATED BASED ON 24 VAC WET CONTACT CLOSURES ON THE FORCED HEATING, FORCED COOLING, AND FORCED DEHUMIDIFICATION. THIS IS A SINGLE CONFIGURATION THAT APPLIES TO ALL 3 MODES.
- IF EITHER THE FORCED HEATING AND FORCED COOLING INPUTS ARE INACTIVE OR BOTH ARE SIMULTANEOUSLY ACTIVE, THEN THE UNIT IS IN A VENT MODE STATE.
- IF FORCED DEHUMIDIFICATION IS ALSO BEING USED, IT WILL OPERATE IN CONJUNCTION WITH THE FORCED HEATING AND FORCE COOLING INPUTS ACCORDING TO THE DEHUMIDIFICATION OPTION YOU HAVE CONFIGURED.

TEMPERATURE PROTECTION

- ACTIVATED WHEN THE SUPPLY AIR TEMPERATURE (SAT) RISES ABOVE THE HIGH CUTOFF TEMPERATURE (IMMEDIATE) OR DROPS BELOW THE LOW CUTOFF TEMPERATURE (FOR 10 MINUTES) BOTH OF WHICH ARE USER ADJUSTABLE. THIS MODE SHUTS OFF THE UNIT (WITH A 3 MINUTE FAN OFF DELAY) UNTIL THE MODE IS CANCELLED.
- THIS MODE IS CANCELLED WHEN THE SAT DROPS 10 DEGREES BELOW THE HIGH CUTOFF TEMPERATURE SETPOINT OR RISES 10 DEGREES ABOVE THE LOW TEMP CUTOFF TEMPERATURE SETPOINT, OR WHEN THE UNIT CHANGES BACK INTO OCCUPIED OPERATION.

OUTDOOR AIR LOCKOUTS

- MECHANICAL COOLING IS DISABLED WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW THE COOLING LOCKOUT SETPOINT.
- MECHANICAL HEATING IS DISABLED WHEN THE OUTDOOR AIR TEMPERATURE IS ABOVE THE HEATING LOCKOUT SETPOINT.
- FOR AIR TO AIR HEAT PUMPS, COMPRESSOR HEATING IS DISABLED WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW THE COMPRESSOR HEATING LOCKOUT.

ALARM DETECTION AND REPORTING

- CONTINUOUSLY PERFORMS SELF-DIAGNOSTICS DURING NORMAL OPERATIONS TO DETERMINE IF ANY OPERATING FAILURES HAVE OCCURRED.
- THESE FAILURES (ALARMS) SHALL BE SHOWN ON THE CONTROLLER'S DISPLAY, AND CAN BE REPORTED TO A WALL MOUNTED CONTROLLER INTERFACE.

THE FOLLOWING ARE THE AVAILABLE ALARM DESIGNATIONS FOR THE CONTROLLER:

- BAD SAT SENSORMECHANICAL COOLING FAILUREBAD OAT SENSORMECHANICAL HEATING FAILUREBAD SPACE SENSOR
- BAD RAT SENSOR
- BAD CO2 SENSOR
- BAD BUILDING PRESSURE SENSOR
- HIGH CONTROL TEMP
- LOW CONTROL TEMPFAN PROVING ALARM
- DIRTY FILTER ALARM
- EMERGENCY SHUTDOWN
- HIGH SUPPLY AIR TEMPERATURE CUTOFF
- LOW SUPPLY AIR TEMPERATURE CUTOFF
- TITLE 24 ALARMSMISSING EM1 EXPANSION MODULE
- MISSING RSM #1
- MISSING RSM #3
- MISSING PREHEAT-X
- MISSING MODGAS-X
- MISSING OA CFM SENSOR
- MISSING EXHAUST CFM SENSOR
- MISSING 12 RELAY EXPANSION MODULE
- MISSING RSM #2
- MISSING RSM #4
- MISSING MHGRV-X
- MISSING SUPPLY AIR AIRFLOW SENSOR
- MISSING RETURN AIR AIRFLOW SENSOR

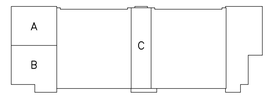
BAS TRENDS AND DISPLAY

BAS TO DISPLAY & TREND THE FOLLOWING:

- SUPPLY AIR TEMPERATURE
- RETURN AIR TEMPERATURE
- OUTSIDE AIR TEMPERATURE
- SUPPLY AIR STATIC PRESSURE SETPOINT
- COMMON ALARMS

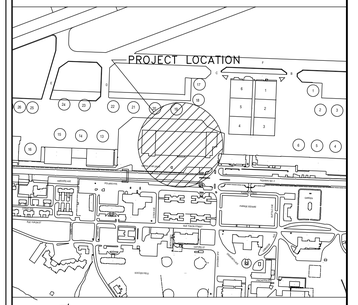
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

GENERAL NOTES:

1. ALL HVAC CONTROLS ARE TO BE NEW DCC CONTROLS. CONTRACTOR TO RETAIN THE SERVICES OF A QUALIFIED CONTROLS CONTRACTOR TO PERFORM INSULATION TESTING COMMISSIONING OF NEW SYSTEM. NEW CONTROLS TO BE COMPATIBLE WITH EXISTING "RELIABLE CONTROLS" BAS SYSTEM.

LICENSED PROFESSIONAL ENGINEER
S. E. M. SOUCY
100135361
PROVINCE OF ONTARIO
2025/03/28

NO.	DATE	REVISION	APPR.
6	2025/03/28	ISSUED FOR TENDER	S.S
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4	2020/10/07	ISSUED FOR TENDER	S.S
3	2020/08/19	ISSUED FOR 100% SUBMISSION	S.S
2	2020/05/19	ISSUED FOR 90% SUBMISSION	S.S

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
MECHANICAL	2020/01/08

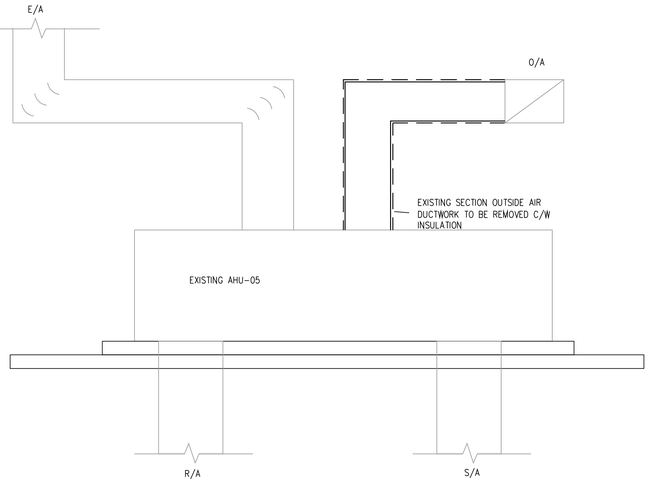
SUBJECT | SUJET
MECHANICAL SCHEMATICS

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ S.S.	XX | XX	DES O | AGENT CONC S.CHINNATAMBY
DRAWN | DESSINÉ C.K.	XX | XX	PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED | VÉRIFIÉ	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION		FIRE | INCENDIE CAPT. CAMPBELL

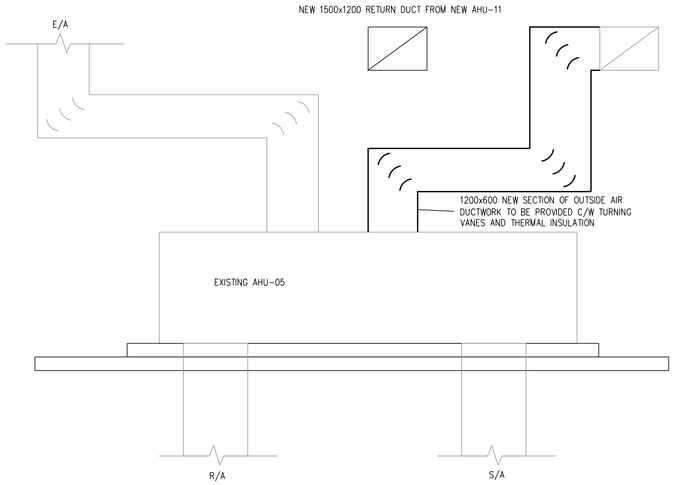
WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

DWG. NO. | NO. DESSIN
L-T81-3019/2- 410

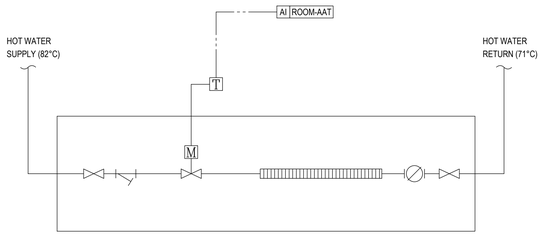
Canada



1/411 EXISTING AHU-05 DUCTWORK DEMOLITION SCHEMATIC
SCALE: N.T.S.

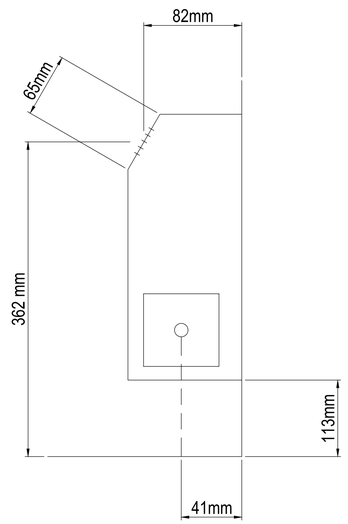


2/411 EXISTING AHU-05 DUCTWORK MODIFICATIONS SCHEMATIC
SCALE: N.T.S.

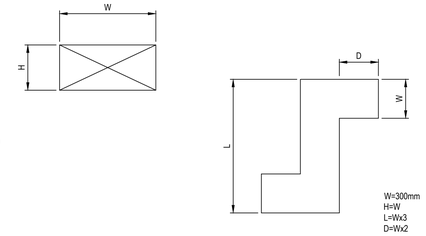


NOTE:
1. ALL CONTROLS FOR AHU AND CU ARE TO BE PROVIDED BY CONTROLS CONTRACTOR. SEQUENCE OF OPERATIONS TO MEET ASRHAE GUIDELINE 36-2018 AND MATCH EXISTING SEQUENCES.

3/411 WALL FIN DETAIL - SCHEMATIC
SCALE: N.T.S.

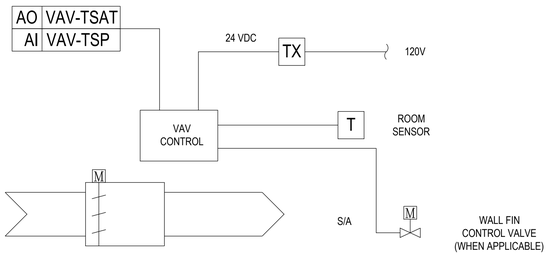


4/411 WALL FIN DETAIL - ELEVATION
SCALE: N.T.S.



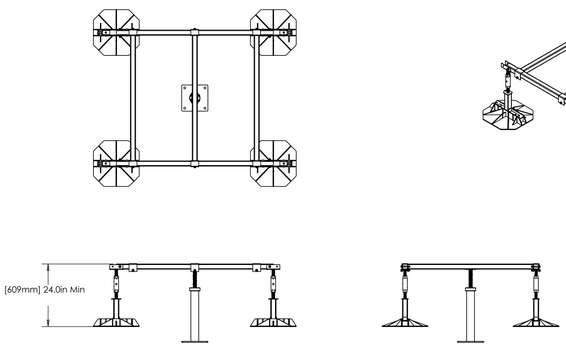
5/411 TRANSFER DUCT DETAIL
SCALE: N.T.S.

1. ALL CONTROLS FOR AHU AND CU ARE TO BE PROVIDED BY CONTROLS CONTRACTOR. SEQUENCE OF OPERATIONS TO MEET ASRHAE GUIDELINE 36-2018 AND MATCH EXISTING SEQUENCES.



NOTE:
1. ALL CONTROLS FOR AHU AND CU ARE TO BE PROVIDED BY CONTROLS CONTRACTOR. SEQUENCE OF OPERATIONS TO MEET ASRHAE GUIDELINE 36-2018 AND MATCH EXISTING SEQUENCES.

6/411 VAV DETAIL - SCHEMATIC
SCALE: N.T.S.

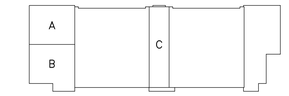


7/411 A/C CONDENSER ROOFTOP STAND
SCALE: N.T.S.

DETAIL NOTES:
1. EQUIPMENT IS TO BE SUPPORTED ON SEISMIC SUPPORT DESIGNED IN ACCORDANCE WITH CSA-S16-14.
2. STEEL – A500 WITH A MINIMUM TENSILE STRENGTH OF 62,000PSI (427474 KPA). THREADED ROD MUST BE GRADE B7. LEG ASSEMBLIES HAVE INTERNAL RIGHT AND LEFT HAND THREADS FOR HEIGHT ADJUSTABILITY OF 18-24".
3. BASES – POLYPROPYLENE CO-POLYMER UV STABILIZED 17.5 OCTAGONAL WITH A TENSILE STRENGTH MINIMUM OF 3,500PSI (24131KPA), WITH FITTED ANTI-VIBRATION MATS INCLUDED.
4. SEISMIC POST – CAN WITH STAND A MAXIMUM OF 674 LBS (3.0KN) OF FORCE IN ANY DIRECTION AT CONNECTION POINT. CONTRACTOR TO PROVIDE STAMPED SHOP DRAWINGS BY QUALIFIED SEISMIC ENGINEER.

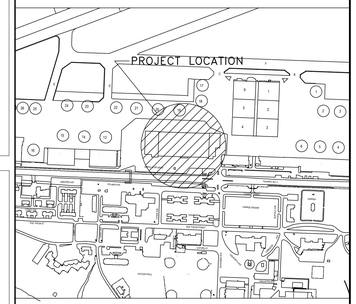
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

GENERAL NOTES:

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SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
MECHANICAL	2020/01/08

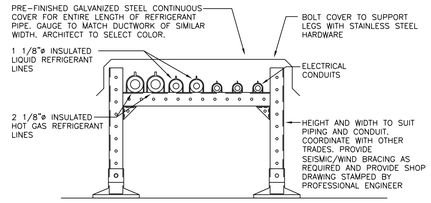
SUBJECT | SUJET
MECHANICAL SCHEMATICS

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ S.S.	XX | XX	DES O | AGENT CONC S.CHINNATAMBY
DRAWN | DESSINÉ C.K.	XX | XX	PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED | VÉRIFIÉ	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION		FIRE | INCENDIE CAPT. CAMPBELL

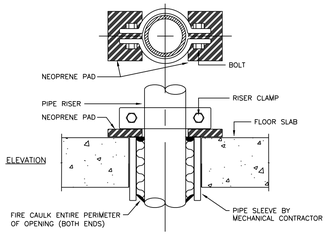
WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

DWG. NO. | NO. DESSIN
L-T81-3019/2- 411

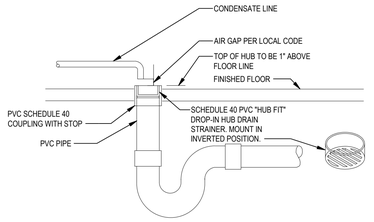
Canada



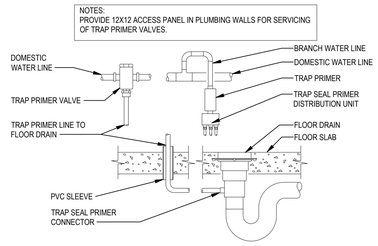
1 412 TYPICAL ROOF MOUNTED PIPE SUPPORT
SCALE: N.T.S.



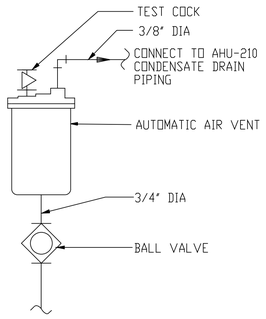
2 412 PIPE TRHOUGH FLOOR
SCALE: N.T.S.



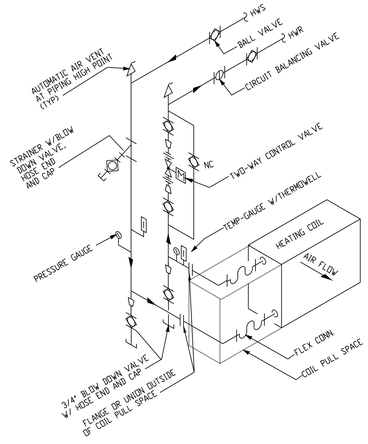
2 412 COND. DRAIN RAISED HUB
SCALE: N.T.S.



4 412 TRAP SEAL PRIMER
SCALE: N.T.S.

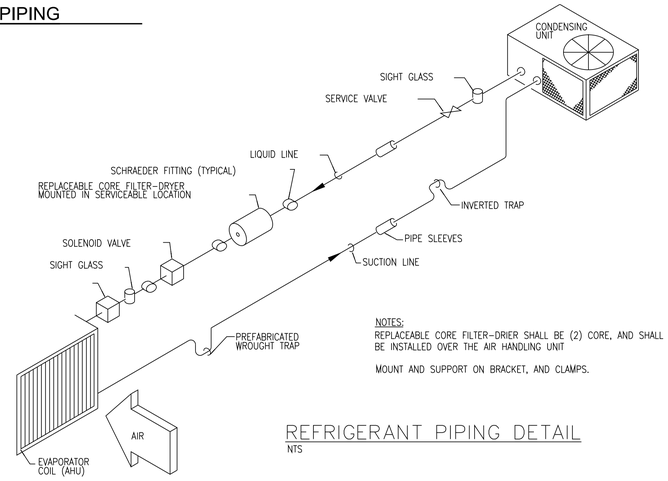


5 412 AUTOMATIC AIR VENT
SCALE: N.T.S.

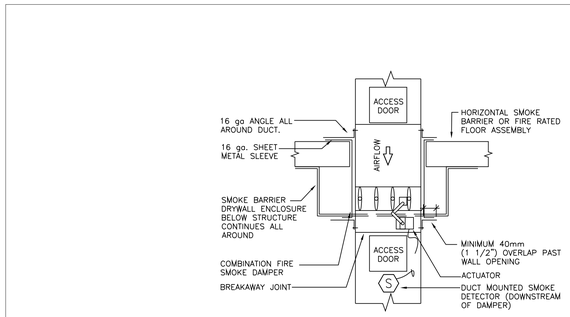


6 412 HEATING COIL PIPING
SCALE: N.T.S.

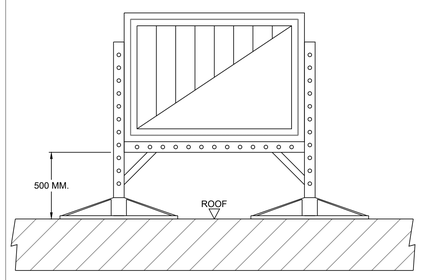
7 412 REFRIGERANT PIPING
SCALE: N.T.S.



REFRIGERANT PIPING DETAIL
NTS



8 412 COMBINATION FIRE/SMOKE DAMPER INSTALLATION THROUGH FLOOR
SCALE: N.T.S.



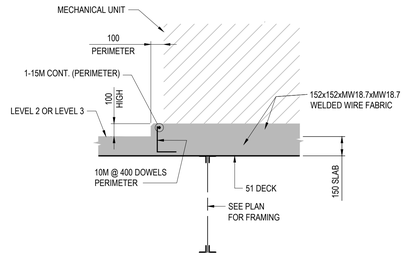
DRAWING NOTES:

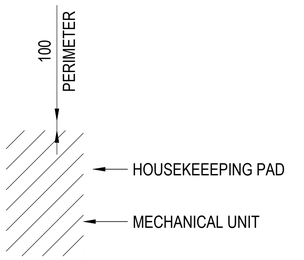
1. HOT DIP GALVANIZED STEEL FRAMING TO ASTM A123, TYPE: 1-7/8" ROLL FORMED CHANNELS, 3 SIDED TUBULAR SHAPE, PERFORATED WITH 9/16" HOLES AT 1-7/8" O/C ON THREE SIDES, THICKNESS: 12 GAUGE (2.7mm) C/W HOT DIP GALVANIZED NUTS AND BOLTS.
2. SUPPLY/RETURN DUCT C/W 2" THICK RIGID FIBERGLASS INSULATION WITH ALUMINUM VAPOUR BARRIER AND ALUMINUM CLADDING.
3. 18"X18"X3" SUPPORT BASE MADE WITH INJECTION MOLDED HIGH DENSITY / HIGH IMPACT POLYPROPYLENE WITH UV-INHIBITORS AND ANTIOXIDANTS.
4. DIAGONAL BRACES AS REQUIRED.

GENERAL NOTE:

1. THE SUPPORTS SHALL BE SPACED IN ACCORDANCE WITH SMACNA RECOMMENDATIONS AND SPECIFICATIONS. ACCEPTABLE SUPPORT MANUFACTURER: PHP SYSTEMS.
2. CONTRACTOR TO RETAIN A QUALIFIED SEISMIC ENGINEER TO DESIGN SEISMIC SUPPORT FOR THE DUCT SUPPORTS.

9 412 DUCTWOK INSTALLATION ON ROOF
SCALE: N.T.S.



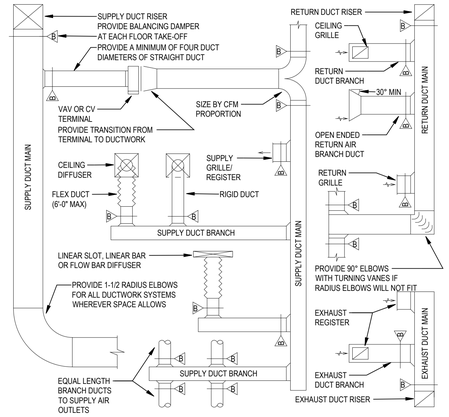


NOTES (HOUSEKEEPING PADS):

- PROVIDE PAD FOR NEW AIR HANDLER, HUMIDIFIER, PUMPS, EXPANSION TANK AND SYTEM FEED TANK.
- PADS ARE REQUIRED FOR ALL FLOOR MOUNTED EQUIPMENT AND TANKS.

10 412 CONCRETE HOUSE KEEPING PAD
SCALE: N.T.S.

NOTES:
1. REFER TO HVAC FLOOR PLANS FOR DUCT SIZES
2. REFER TO SCHEDULES FOR GRILLES, REGISTERS, DIFFUSERS AND TERMINAL SIZES AND TYPES
3. PROVIDE A MANUAL TYPE BALANCING DAMPER FOR EACH SUPPLY OUTLET AND RETURN INLET
4. ALL DUCT RUNOUTS TO DIFFUSERS SHALL BE THE SAME SIZE AS DIFFUSER NECK SIZE, UNLESS OTHERWISE NOTED
5. FLEX DUCT WILL NOT BE ALLOWED ON RETURN OR EXHAUST DUCTWORK SYSTEMS
6. PROVIDE 12" AIR CUSHION AT THE END OF EACH SUPPLY MAIN AND BRANCH DUCT
7. INDIVIDUAL BRANCH BALANCING DAMPERS NOT REQUIRED FOR SUPPLY OR EXHAUST REGISTERS

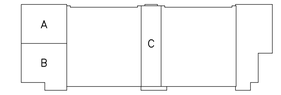


11 412 DUCTWORK INSTALLATION DIAGRAM
SCALE: N.T.S.

ED

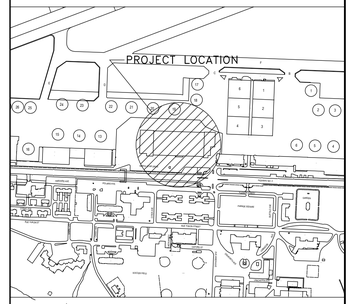
Government of Canada | Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

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SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
MECHANICAL	2020/01/08

SUBJECT | SUJET
MECHANICAL SCHEMATICS

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ S.S.	XX | XX	DES O | AGENT CONC S.CHINNATAMBY
DRAWN | DESSINÉ C.K.	XX | XX	PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED | VÉRIFIÉ	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION		FIRE | INCENDIE CAPT. CAMPBELL

WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

DWG. NO. | NO. DESSIN
L-T81-3019/2- 412

Canada

LIGHTING CONTROLS MATRIX

SPACE TYPE	ROOM NUMBER	MANUAL ON	MANUAL OFF	AUTO ON	AUTO OFF	DIMMING SWITCH	PHOTOCELL	OCCUPANCY SENSOR	VACANCY SENSOR	EXTERIOR PHOTOCELL ON/OFF	OPERATIONS	NOTES
CORRIDORS				X	X			X			ALL CORRIDOR LIGHTING SHALL OPERATE ON ASTRONOMICAL TIME CLOCK. DURING BUSINESS HOURS (DETERMINED BY DEPARTMENTAL REPRESENTATIVE), ALL CORRIDOR LIGHTING WILL BE TURNED ON TO 50% OUTPUT. WHEN OCCUPANCY IS DETECTED IN THIS SPACE, ALL LIGHTING TO TURN TO FULL ON. WHEN VACANCY IS DETECTED FOR GREATER THAN 20 MINUTES, THE LIGHTING WILL REDUCE TO 50%. DURING NON-BUSINESS HOURS, ALL CORRIDOR LIGHTING WILL BE FULLY OFF ONLY TO BE ON DURING OCCUPANCY. WHEN VACANCY IS DETECTED FOR GREATER THAN 20 MINUTES, ALL LIGHTING WILL RETURN TO FULL OFF.	
WASHROOMS				X	X			X			UPON ENTERING THE SPACE, ALL CONTROLLED LIGHTING TO TURN ON TO 100%. ALL CONTROLLED LIGHTING WILL SHUT OFF AFTER SPACE IS UNOCCUPIED FOR 20 MINUTES. SENSOR TIMER MUST RESET EACH TIME OCCUPANCY IS DETECTED.	
KITCHEN		X			X	X			X		UPON ENTERING THE SPACE THE USER WILL MANUALLY TURN LIGHTING ON. WHEN SPACE IS UNOCCUPIED FOR LONGER THAN 20 MINUTES, LIGHTING WILL TURN OFF. VACANCY SENSOR TIMER TO RESET EACH TIME MOTION IS DETECTED. THE USER MUST HAVE THE ABILITY TO MANUALLY ADJUST THE LIGHTING LEVELS FROM 10% TO 100%.	
CLASSROOMS MEETING ROOM (STANDARD DIMMING)		X			X	X			X		UPON ENTERING THE SPACE THE USER MUST MANUALLY TURN ON LIGHTING. WHEN SPACE IS UNOCCUPIED FOR LONGER THAN 20 MINUTES, ALL LIGHTING WILL TURN OFF. LIGHTING LEVELS ARE CONTROLLED VIA A DIMMING CONTROLLER IN WHICH THE USER CAN SET THE MAXIMUM LIGHTING LEVELS OF THE SPACE.	
OFFICES		X			X	X			X		UPON ENTERING THE SPACE THE USER MUST MANUALLY TURN ON LIGHTING. WHEN SPACE IS UNOCCUPIED FOR LONGER THAN 20 MINUTES, ALL LIGHTING WILL TURN OFF. LIGHTING LEVELS ARE CONTROLLED VIA A DIMMING CONTROLLER IN WHICH THE USER CAN SET THE MAXIMUM LIGHTING LEVELS OF THE SPACE.	
ELECTRICAL/ MECHANICAL ROOM		X			X				X		USER WILL MANUALLY TURN LIGHTING ON. WHEN SPACE IS UNOCCUPIED FOR LONGER THAN 20 MINUTES, LIGHTING TO TURN OFF. VACANCY SENSOR TIMER TO RESET EACH TIME MOTION IS DETECTED.	
STORAGE ROOMS, IT ROOMS		X			X				X		USER WILL MANUALLY TURN LIGHTING ON. WHEN SPACE IS UNOCCUPIED FOR LONGER THAN 5 MINUTES, LIGHTING TO TURN OFF. VACANCY SENSOR TIMER TO RESET EACH TIME MOTION IS DETECTED.	
DAYLIGHT CONTROL							X				DAYLIGHT CONTROL DIMMING TO OPERATE WITH DETECTED LIGHTING LEVELS WITH PHOTOCELL SENSOR TO MAINTAIN NATURAL LIGHTING LEVELS NEAR WINDOWS.	

LIGHTING SCHEDULE

TYPE	MOUNTING	OPERATING VOLTAGE	COLOR TEMP (CCT)	LUMENS (DELIVERED)	POWER (W)	DESCRIPTION	NOTES
INDOOR							
A1	RECESSED	347V	3500K	3200	30W	609X609mm LED TROFFER. 0-10V DRIVER.	
A2	RECESSED	347V	3500K	2500	20W	609X609mm LED TROFFER. 0-10V DRIVER.	
A3	RECESSED	347V	3500K	1200	10W	609X609mm LED TROFFER. 0-10V DRIVER.	
B	WALL	347V	3500K	2500	20W	1219mm VANITY LIGHT	TO BE MOUNTED AT 2133mm (7ft) A.F.F.
C	CEILING	347V	3500K	2800	40W	1219mm STRIP LIGHT, RATED FOR DAMP LOCATION, C/W POLY CARBONATE LENS AND WIRE GUARD.	

LIGHTING LEGEND:

- $ — SWITCH
- $^{\frac{1}{2}}$ — SWITCH WITH DIMMER
- ^{V} — SWITCH WITH OCCUPANCY SENSOR
- ^{3} — SWITCH 3-WAY
- WALL MOUNT LIGHT
- 2x2 LIGHTING
- 2x2 NIGHT LIGHT
- EXIT SIGN WITH DIRECTIONAL ARROW
- EMERGENCY BATTERY C/W REMOTE HEAD
- OS — OCCUPANCY SENSOR
- DAY LIGHT SENSOR
- ROOM CONTROLLER
- STRIP

POWER LEGEND:

- RECEPTACLE
- DATA/COMM
- FLOOR MONUMENT DATA/COMM
- MOTOR
- ELECTRICAL WHIP MULTIPLE CCT
- FP — ELECTRICAL WHIP MULTIPLE CCT COMPLETE WITH FURNITURE POLE
- GFI — QUAD RECEP
- GFI RECEP
- FLOOR MONUMENT RECEPTACLE
- ELECTRICAL PANEL
- ELECTRICAL CONNECTION TO MECHANICAL EQUIPMENT
- 1Ø MOTOR
- 3Ø MOTOR
- JUNCTION BOX
- DISCONNECT
- NEW
- DEMOLITION
- L5-30R RECEPTACLE

FIRE ALARM LEGEND:

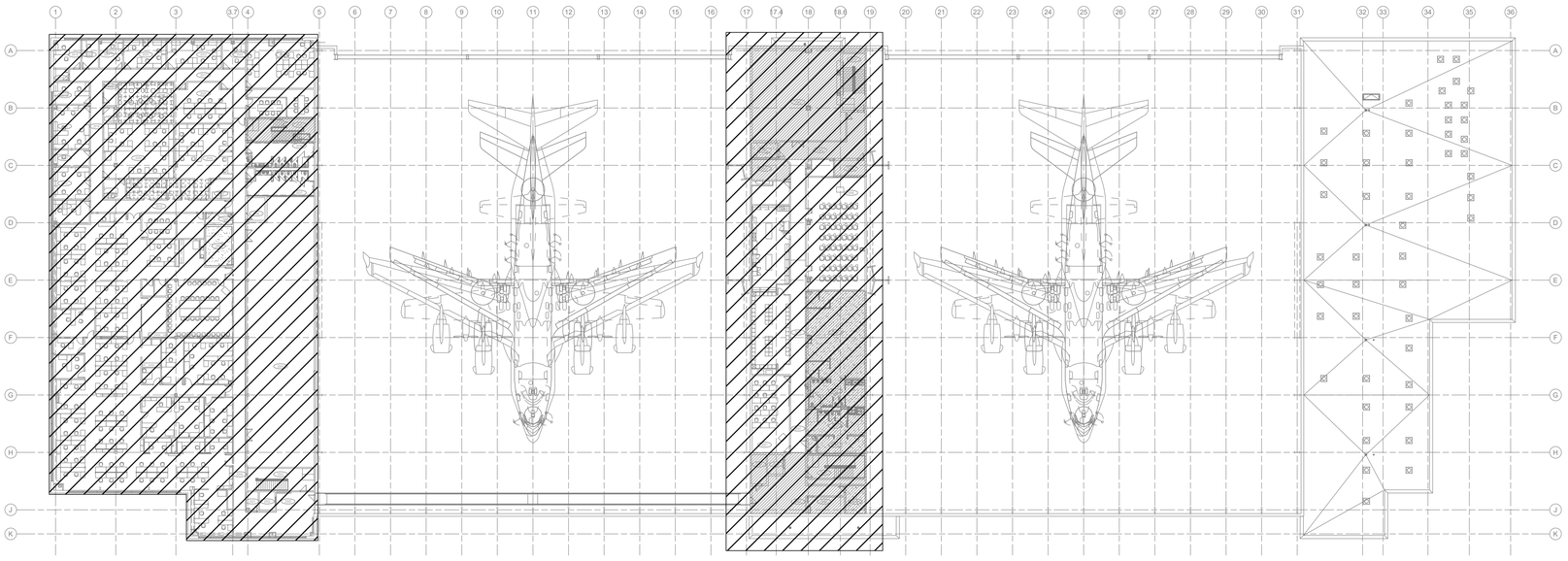
- P — PULL STATION
- HORN
- HORN / STROBE
- HEAT DETECTOR
- SMOKE DETECTOR
- S — DUCT SMOKE
- ADDRESSABLE FIRE ALARM CONTROL PANEL
- END OF LINE RESISTOR
- RPS — FIRE ALARM ZONE PANEL
- AR — ALARM RELAY

DEF:

R	RELOCATE
RL	RELOCATED
RM	TO REMOVE (DEVICE, WIRING AND CONDUIT)
N	NEW (DEVICE, JUNCTION BOX AND CONDUIT REQUIRED)
PNL# - CCT	PANEL NUMBER AND CIRCUIT

AREA A/B

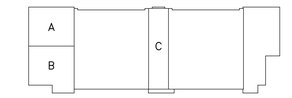
AREA C



1 / 501 KEYPLAN
SCALE: N.T.S.

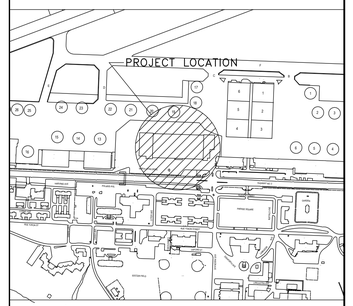
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N. T. S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N. T. S.

LICENSED PROFESSIONAL ENGINEER
2026-03-28
M. J. J. TESSIER
100100693
PROVINCE OF ONTARIO

NO.	DATE	REVISION	APPR.
6	2025/03/28	ISSUED FOR TENDER	M.T.
5	2025/02/24	ISSUED FOR TENDER	M.T.
4	2020/10/07	ISSUED FOR TENDER	P.H.
3	2020/08/19	ISSUED FOR 100% SUBMISSION	P.H.
2	2020/05/19	ISSUED FOR 90%	P.H.

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

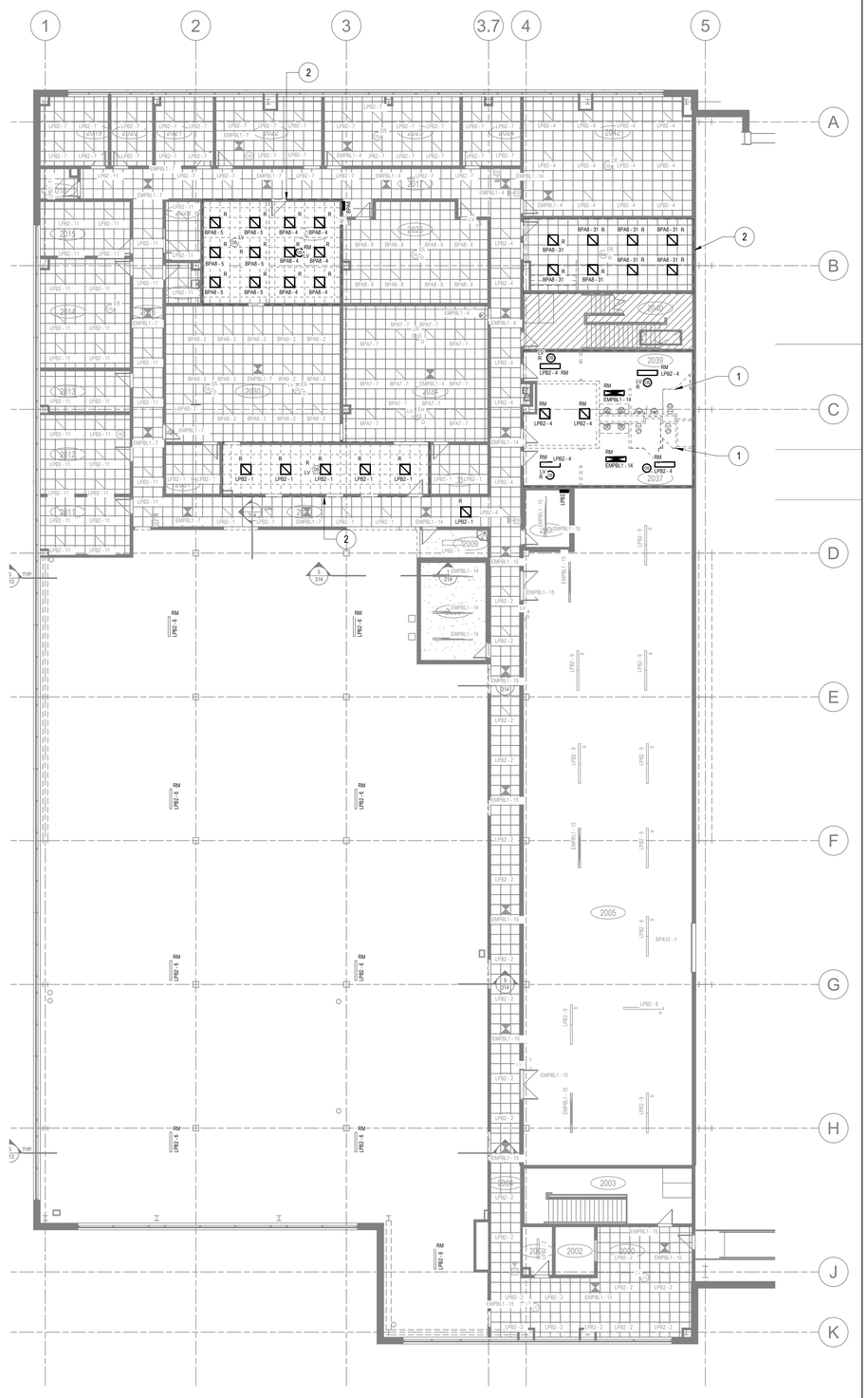
TRADE | MÉTIER: ELECTRICAL
DATE: 2020/01/08

SUBJECT | SUJET
ELECTRICAL LEGENDS AND KEY PLAN

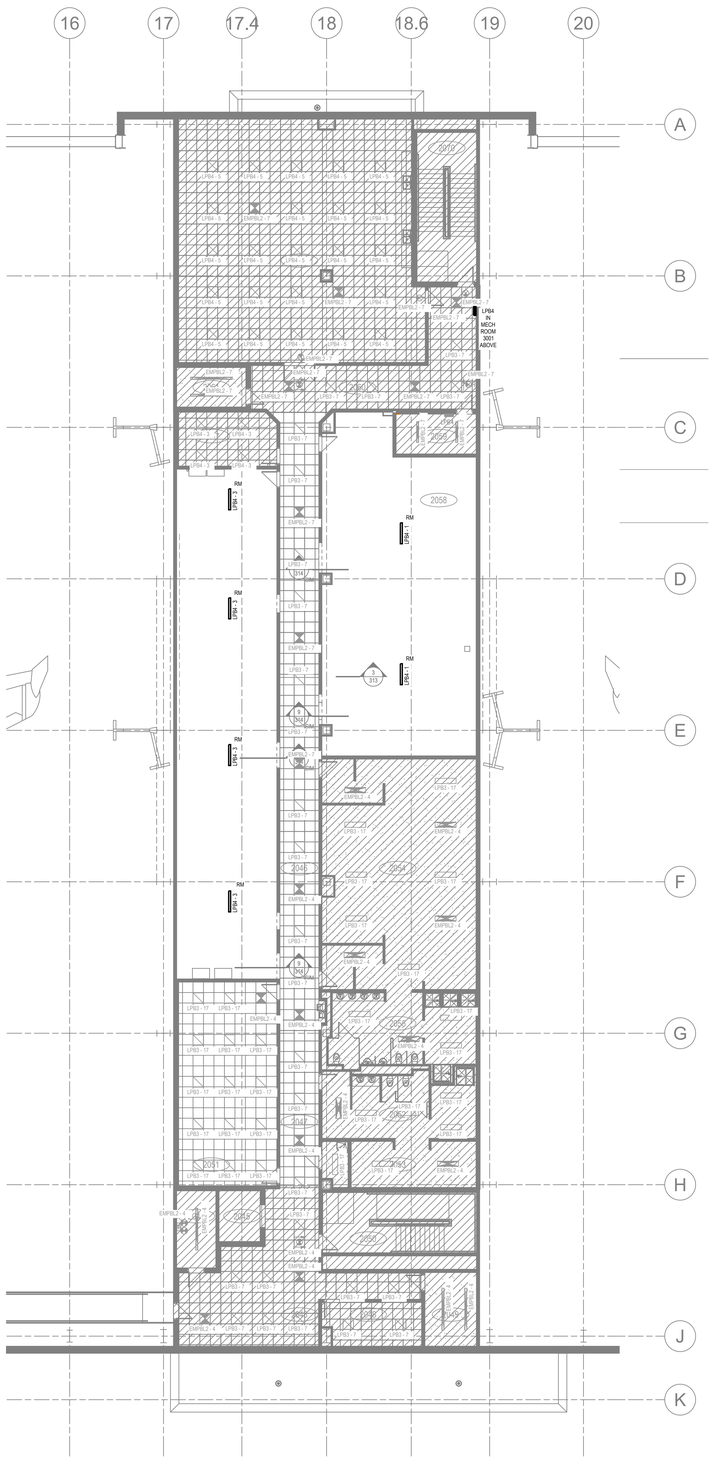
PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ P.H.	XX | XX	DES O | AGENT CONC S.CHINNATAMBY
DRAWN | DESSINÉ P.H.	XX | XX	PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED | VÉRIFIÉ S.L.	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION		FIRE | INCENDIE CAPT. CAMPBELL

WBS NO. | NO. OTP: N.001755.03
PF NO. | NO. DP: PF 500006755
DWG. NO. | NO. DESSIN: L-T81-3019/2-501

Canada



1 / 502 AREA A/B SECOND LEVEL - LIGHTING DEMOLITION
SCALE: 1:150



2 / 502 AREA C SECOND LEVEL - LIGHTING DEMOLITION
SCALE: 1:150

DRAWINGS NOTES

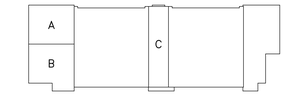
1. RELOCATE LIGHTING AND OCCUPANCY SENSOR WITHIN WASHROOMS. TO ALLOW FOR CEILING MODIFICATIONS.
2. RELOCATION OF LIGHTING FIXTURE AND OCCUPANCY SENSORS IN OFFICE SPACE TO ALLOW FOR CEILING MODIFICATIONS.

GENERAL NOTE

1. ALL ELECTRICAL EQUIPMENT LOCATIONS ON ELECTRICAL DRAWINGS ARE TO BE CONSIDERED APPROXIMATE. ANY DEVIATION OF LOCATIONS OF ELECTRICAL EQUIPMENT SHALL BE MARKED-UP ACCORDINGLY FOR ACCURATE REPRESENTATION ON AS-BUILT PLANS.
2. ARCHITECTURAL BACKGROUNDS IN ELECTRICAL DRAWINGS ARE REPRESENTATIVE ONLY. ALTHOUGH EVERY EFFORT HAS BEEN MADE TO ENSURE THE ACCURACY OF THESE BACKGROUNDS, ACTUAL SITE CONDITIONS AND LATEST ARCHITECTURAL DOCUMENTS MAY VARY FROM ELECTRICAL DRAWINGS. CONTRACTOR SHALL VERIFY EXACT ARCHITECTURAL LAYOUT ON SITE PRIOR TO CONSTRUCTION.
3. ALL WALL PENETRATIONS ARE TO BE FIRESTOPPED WITH APPROVED FIRE STOPPING MATERIAL TO MATCH EXISTING/NEW FIRE RATINGS. CONTRACTOR SHALL COORDINATE FIRE SEPARATION RATINGS FROM ARCHITECTURAL TRADE PATCH AND MAKE GOOD ALL PENETRATIONS IN WALLS, CEILINGS, COLUMNS, ETC.
4. ALL CEILING MOUNTED SENSORS SHALL BE MOUNTED AT LEAST 1500MM FROM ALL AIR SUPPLY VENTS. CONTRACTOR SHALL COORDINATE FINAL LOCATION OF ALL CEILING MOUNTED SENSORS WITH MECHANICAL TRADE PRIOR TO INSTALLATION AND ADVISE DEPARTMENTAL REPRESENTATIVE OF ANY CONFLICTS.
5. ALL WIRING SHOWN ON LIGHTING PLANS REPRESENTS LINE VOLTAGE CONNECTIONS. NO LOW VOLTAGE/CAT5 WIRING SHOWN ON DRAWINGS. FOR UNDERSTANDING ON INTERCONNECTIVITY OF LOW VOLTAGE DEVICES, SEE TYPICAL WIRING DIAGRAMS FOUND ON DRAWING 508. CONTRACTOR MAY NEED TO CONSULT WITH MANUFACTURER FOR SPECIFIC LOW VOLTAGE WIRING REQUIREMENTS OF SYSTEMS.
6. NO WIRELESS LIGHTING CONTROLS ARE ALLOWED IN THIS FACILITY.

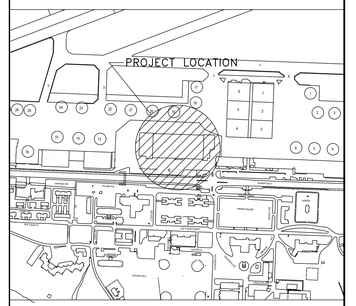
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N. T. S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N. T. S.

LICENSED PROFESSIONAL ENGINEER
2025 03 28
M. J. J. TESSIER
100100933
PROVINCE OF ONTARIO

NO.	DATE	REVISION	APPR.
6	2025/03/28	ISSUED FOR TENDER	M.T.
5	2025/02/24	ISSUED FOR TENDER	M.T.
4	2020/10/07	ISSUED FOR TENDER	P.H.
3	2020/08/19	ISSUED FOR 100% SUBMISSION	P.H.
2	2020/05/19	ISSUED FOR 90%	P.H.

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

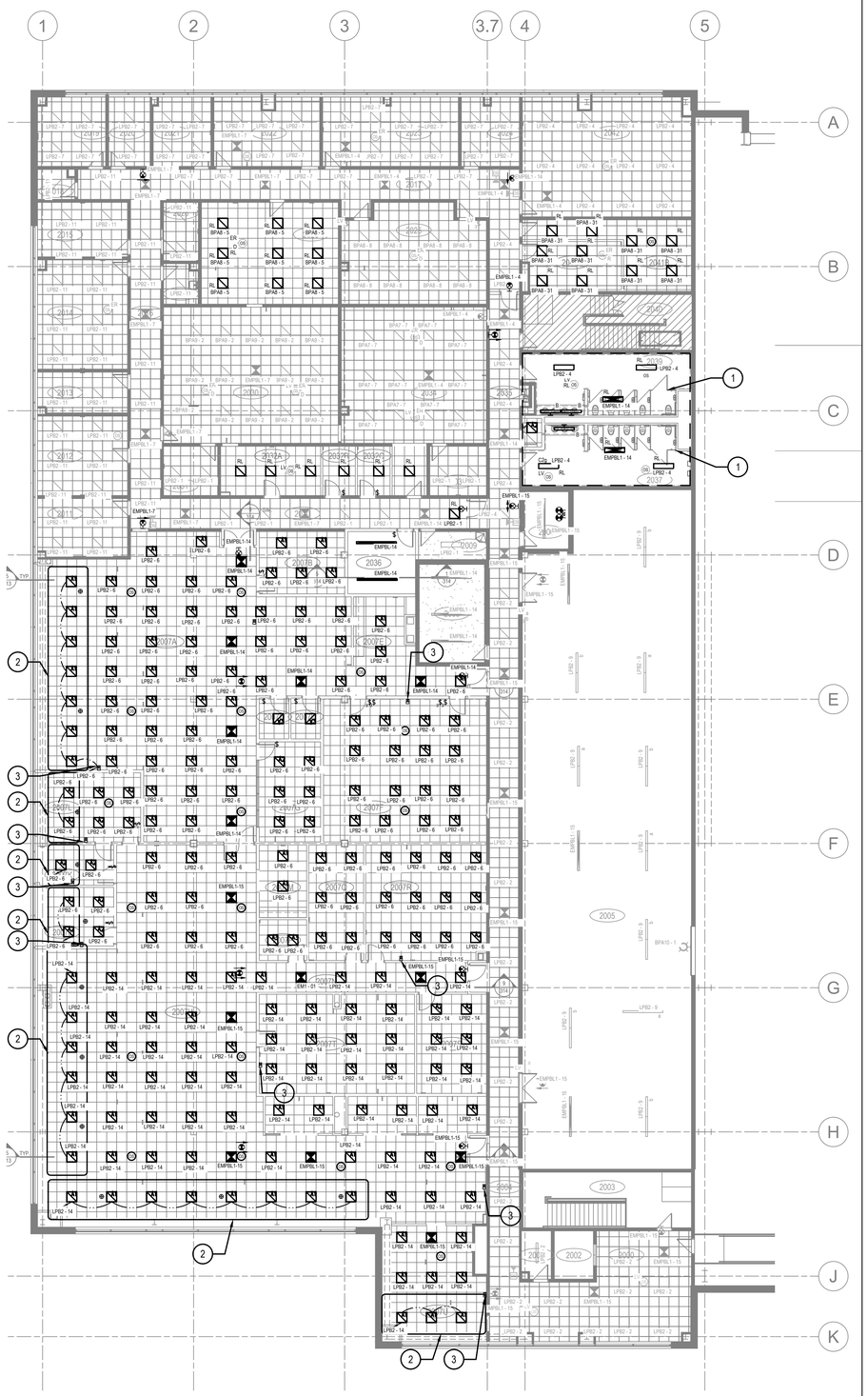
TRADE | MÉTIER: ELECTRICAL
DATE: 2020/01/08

SUBJECT | SUJET
LIGHTING DEMOLITION PLAN

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ P.H.	XX | XX	DES O | AGENT CONC S.CHINNATAMBY
DRAWN | DESSINÉ P.H.	XX | XX	PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED | VÉRIFIÉ S.L.	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION		FIRE | INCENDIE CAPT. CAMPBELL

WBS NO. | NO. OTP: N.001755.03
PF NO. | NO. DP: PF 500006755
DWG. NO. | NO. DESSIN: L-T81-3019/2-502

Canada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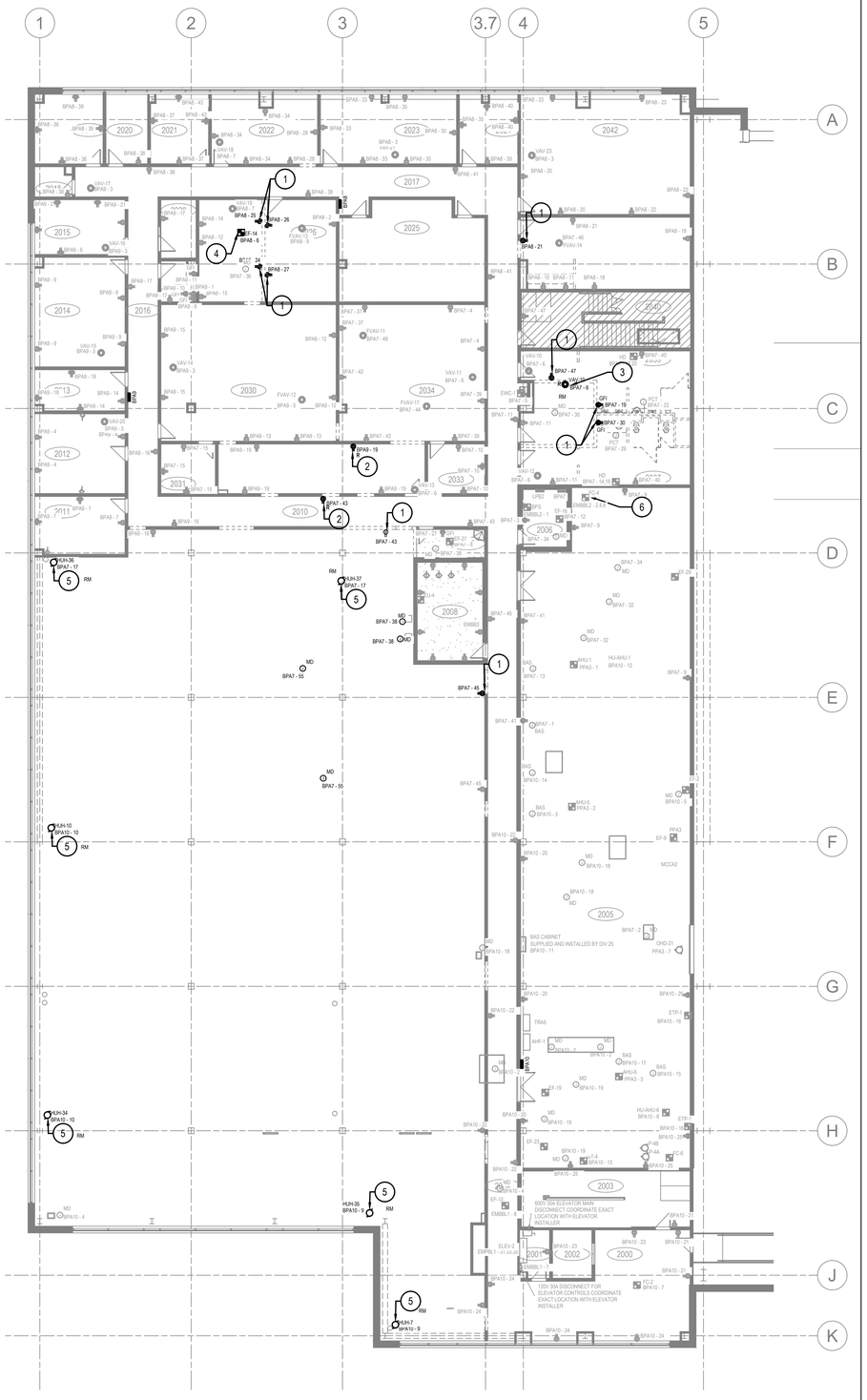
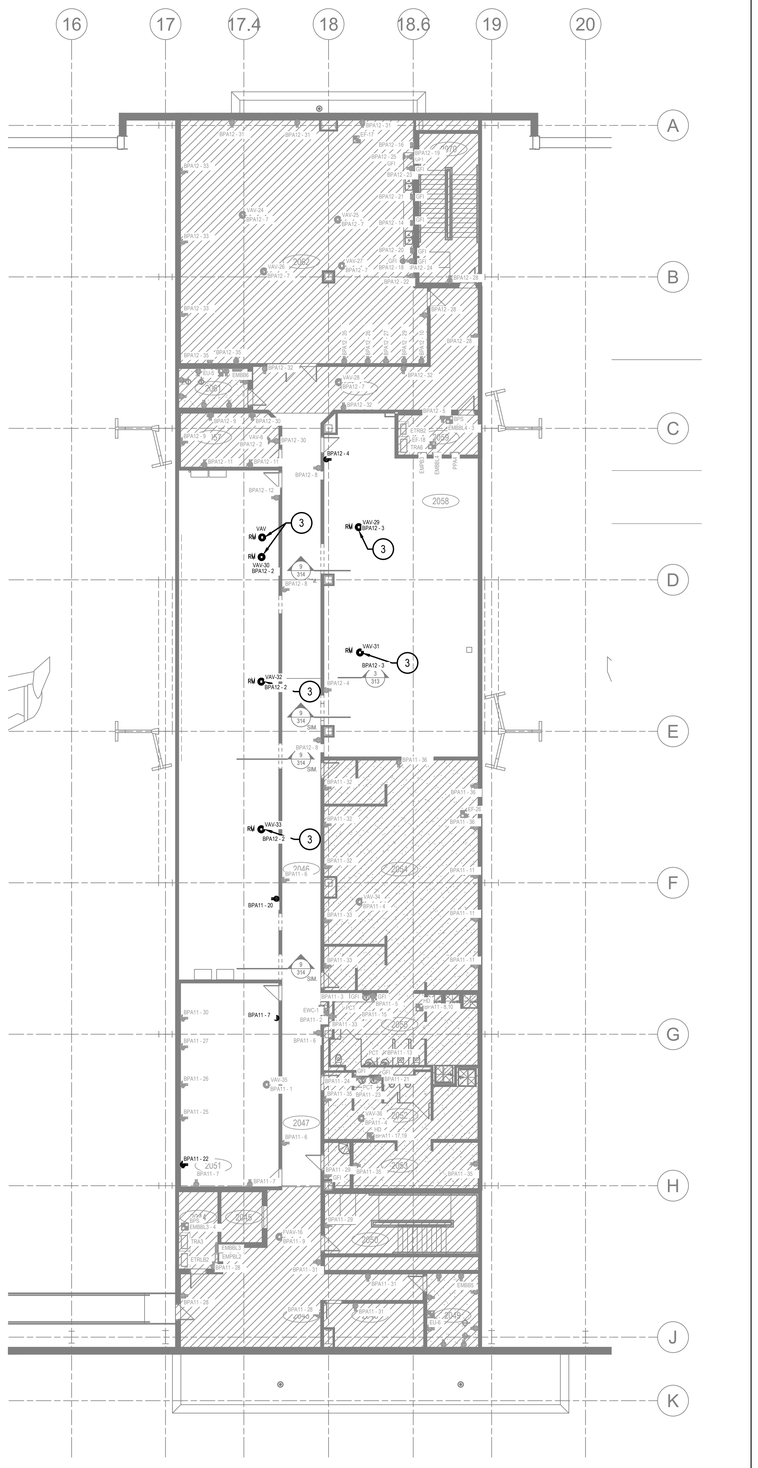
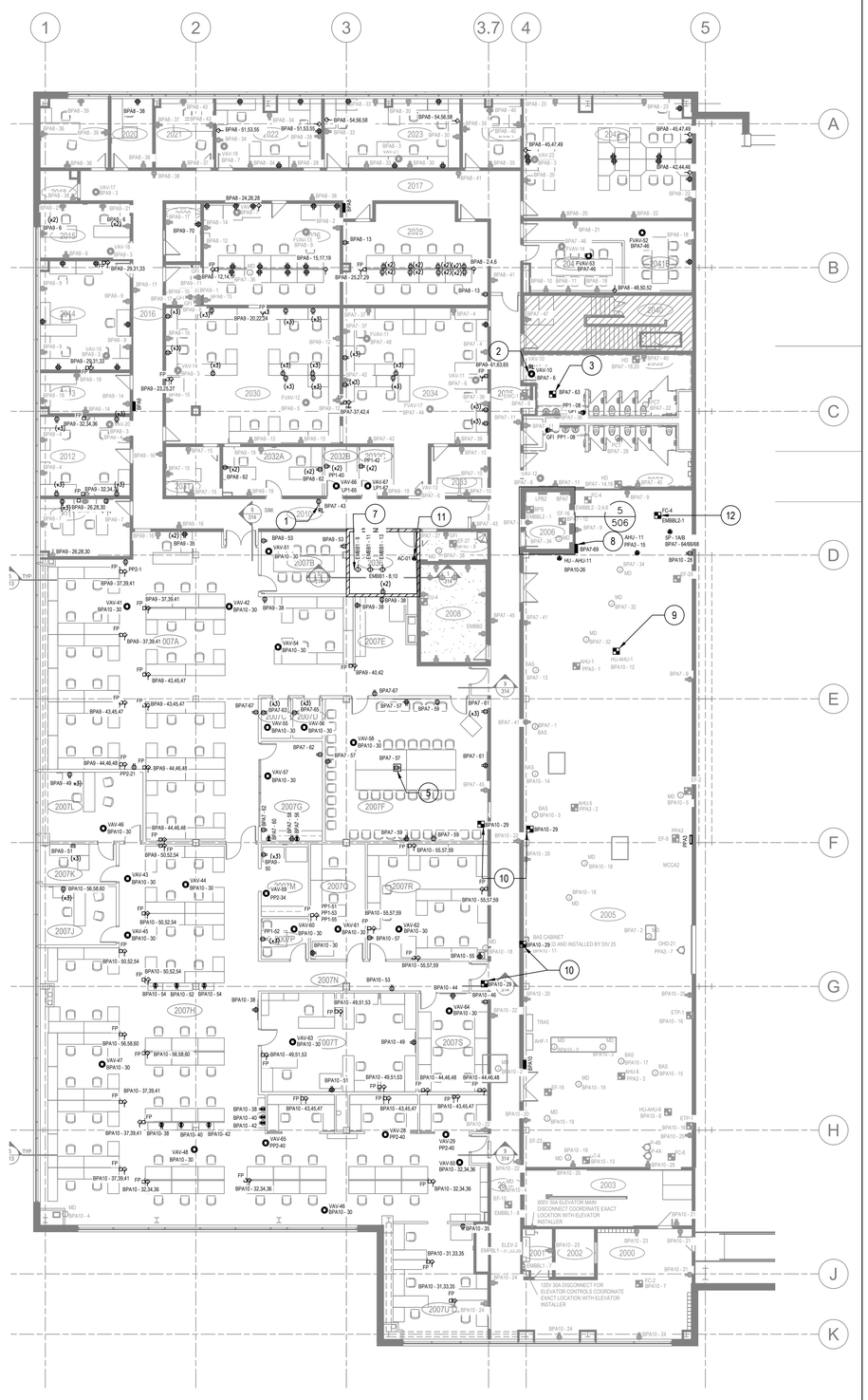


1 504 AREA A/B SECOND LEVEL - POWER DEMOLITION
SCALE: 1:150

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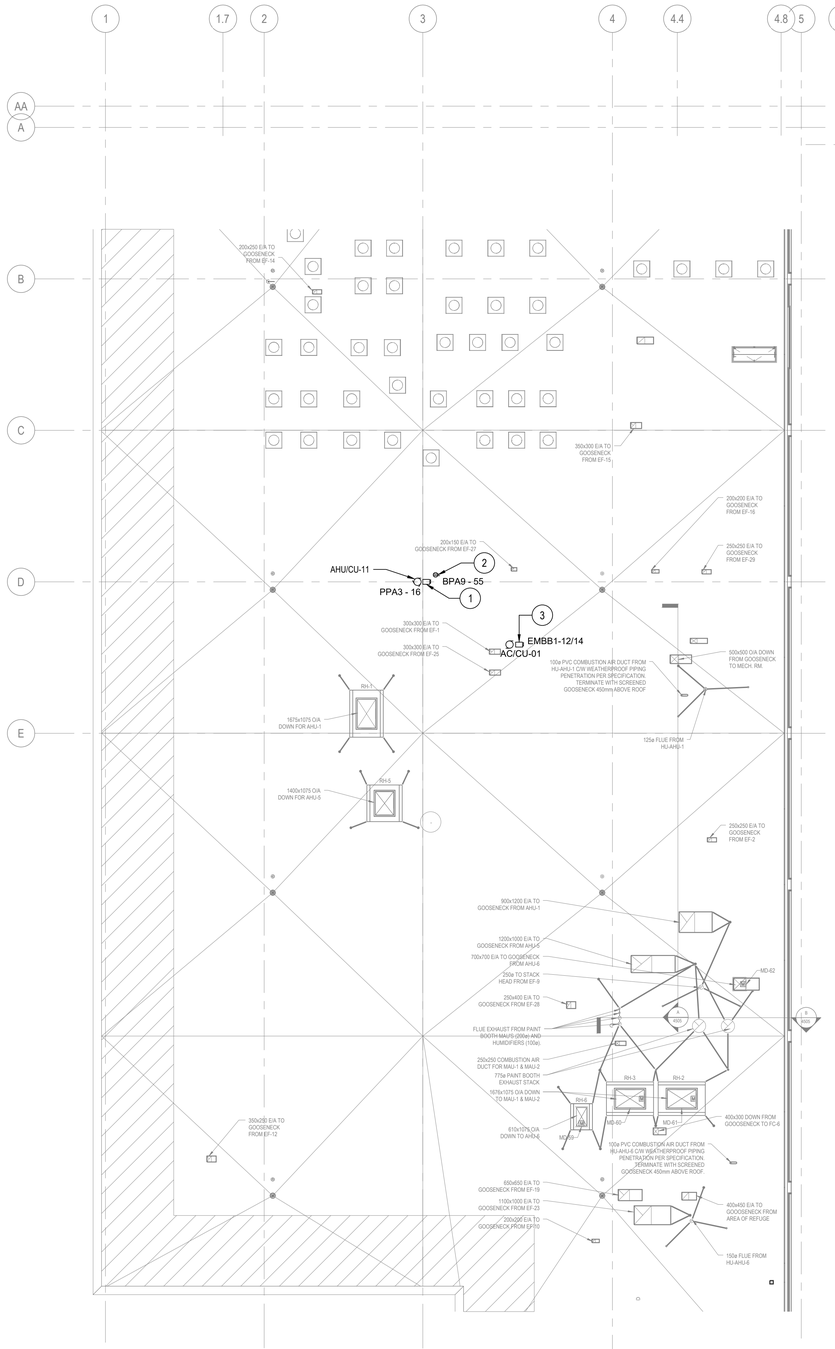
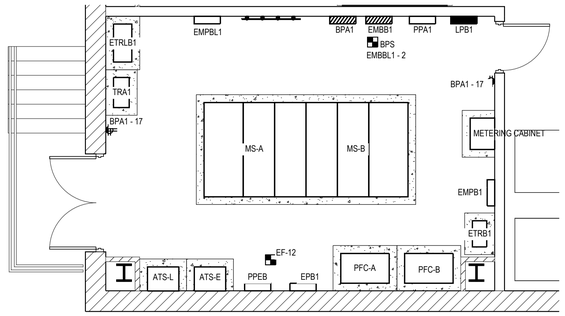
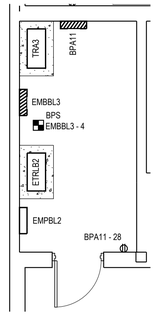


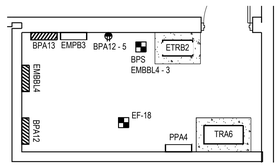
1 / 506 AREA A/B ROOF LEVEL - POWER CONSTRUCTION
SCALE: 1:150



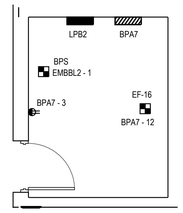
2 / 506 ELECTRICAL ROOM - 1038
SCALE: 1:150



3 / 506 ELECTRICAL ROOM - 2044
SCALE: 1:150



4 / 506 ELECTRICAL ROOM - 2059
SCALE: 1:150



5 / 506 ELECTRICAL ROOM - 2006
SCALE: 1:150

DRAWINGS NOTES

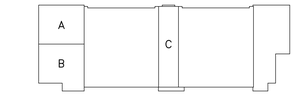
1. PROVIDE 600V, 3PH, 4W, 70A CIRCUIT C/W WEATHER PROOF DISCONNECT SWITCH.
2. PROVIDE NEW 120V, 20A, GFCI MAINTENANCE RECEPTACLE FOR THE NEW ROOF MOUNTED EQUIPMENT.
3. PROVIDE NEW 208V, 1PH, 15A CIRCUIT C/W WEATHER PROOF DISCONNECT SWITCH FOR THE NEW AC/CU-01 UNIT ON THE ROOF.

GENERAL NOTE

1. ALL ELECTRICAL EQUIPMENT LOCATIONS ON ELECTRICAL DRAWINGS ARE TO BE CONSIDERED APPROXIMATE. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL DEVICES ON SITE. ANY EQUIPMENT LOCATION DEVIATIONS BETWEEN CONSTRUCTION DRAWINGS AND SITE CONDITIONS SHALL BE IDENTIFIED AND MODIFIED ON AS-BUILT RECORD DRAWING MARKUPS.
2. ARCHITECTURAL BACKGROUNDS IN ELECTRICAL DRAWINGS ARE REPRESENTATIVE ONLY. ALTHOUGH EVERY EFFORT HAS BEEN MADE TO ENSURE THE ACCURACY OF THESE BACKGROUNDS, ACTUAL SITE CONDITIONS AND LATEST ARCHITECTURAL DOCUMENTS MAY VARY FROM ELECTRICAL DRAWINGS. CONTRACTOR SHALL VERIFY EXACT ARCHITECTURAL LAYOUT ON SITE PRIOR TO CONSTRUCTION.
3. REFER TO ELECTRICAL PANEL SCHEDULES (508) FOR MECHANICAL ELEMENT CIRCUITING.
4. JUNCTION BOXES ARE NOT SHOW ON THESE PLANS CONTRACTOR IS RESPONSIBLE TO INSTALL JUNCTION BOXES AS REQUIRED FOR ALL NEW ELECTRICAL FEEDS.

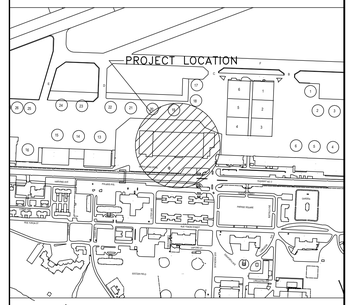
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N. T. S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N. T. S.

LICENSED PROFESSIONAL ENGINEER
2025 03 28
M. J. J. TESSIER
100106033
PROVINCE OF ONTARIO

NO.	DATE	REVISION	APPR.
6	2025/03/28	ISSUED FOR TENDER	M.T.
5	2025/02/24	ISSUED FOR TENDER	M.T.
4	2020/10/07	ISSUED FOR TENDER	P.H.
3	2020/08/19	ISSUED FOR 100% SUBMISSION	P.H.
2	2020/05/19	ISSUED FOR 90%	P.H.

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

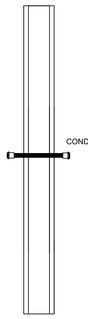
TRADE | MÉTIER: ELECTRICAL
DATE: 2020/01/08

SUBJECT | SUJET
POWER CONSTRUCTION PLAN

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ P.H.	XX | XX	DES O | AGENT CONC S.CHINNATAMBY
DRAWN | DESSINÉ P.H.	XX | XX	PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED | VÉRIFIÉ S.L.	XX | XX	DES MGR | GEST CONC X.X
COORDINATION		FIRE | INCENDIE CAPT. CAMPBELL

WBS NO. | NO. OTP: N.001755.03
PF NO. | NO. DP: PF 500006755
DWG. NO. | NO. DESSIN: L-T81-3019/2-506

Canada

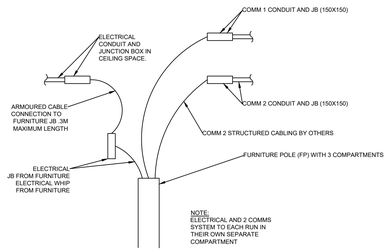


DETAIL NOTES:

1. CONDUITS INSIDE DIAMETERS, AND AROUND PENETRATIONS TO BE PROPERLY SEALED WITH FIRESTOP MATERIAL (ON BOTH SIDES OF PENETRATION).

1/507 SECURE ROOM WALL PENETRATION DETAIL

SCALE: N.T.S.



2/507 TYPICAL FURNITURE CONNECTION

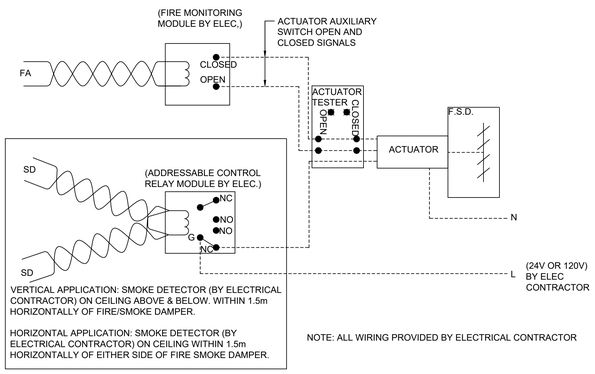
SCALE: N.T.S.

NOTE:
ELECTRICAL AND 2 COMMS SYSTEM TO EACH RUN IN THEIR OWN SEPARATE COMPARTMENT

SEQUENCE OF OPERATIONS:

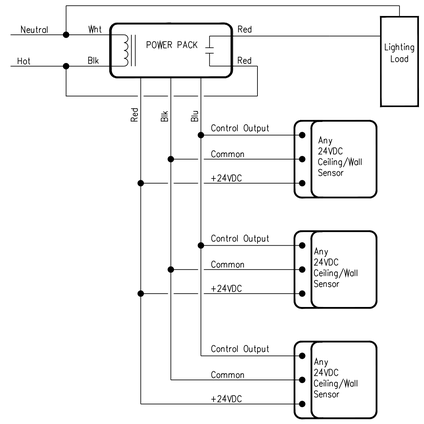
DURING NORMAL OPERATING CONDITION, THE COMBINATION FIRE/SMOKE DAMPER ACTUATOR TO BE POWERED IN THE "OPEN" POSITION TO ALLOW AIR FLOW.

DURING FIRE ALARM CONDITION, WHEN THE ALARM IS INITIATED FROM THE CEILING SMOKE DETECTORS LOCATED 1.6m HORIZONTALLY AWAY FROM THE COMBINATION FIRE/SMOKE DAMPER. THE FIRE/SMOKE DAMPER ALARM RELAY SHALL OPEN THE CIRCUIT TO CLOSE THE FS DAMPER POSITION AND PREVENT ANY AIR CIRCULATION.



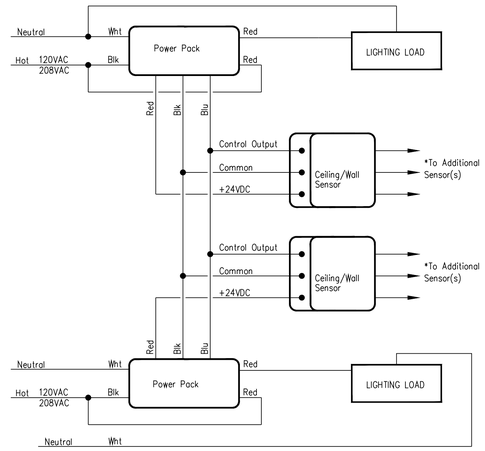
6/507 FIRE/ SMOKE DETAIL

SCALE: N.T.S.



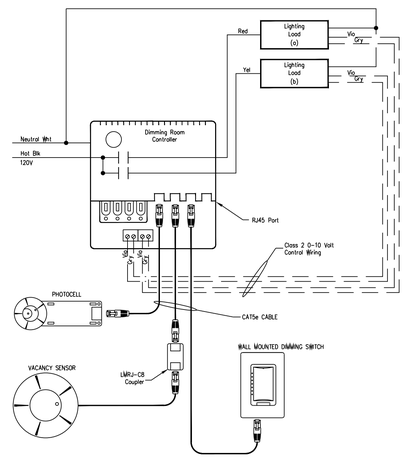
3/507 LIGHTING CONTROLS WIRING DIAGRAM - MULTI-SENSOR INTEGRATION

SCALE: N.T.S.



4/507 LIGHTING CONTROLS WIRING DIAGRAM - MULTI-SENSOR/POWER PACK INTEGRATION

SCALE: N.T.S.

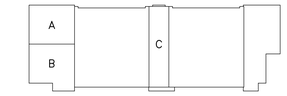


5/507 LIGHTING CONTROLS WIRING DIAGRAM - DAYLIGHTING CONTROLS

SCALE: N.T.S.

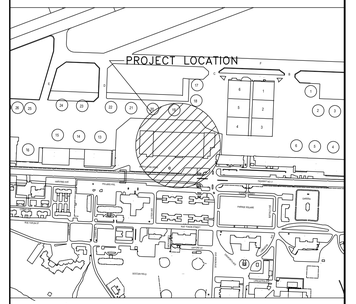
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

LICENSED PROFESSIONAL ENGINEER
2025 03 28
M. J. J. TESSIER
100100933
PROVINCE OF ONTARIO

NO.	DATE	REVISION	APPR.
6	2025/03/28	ISSUED FOR TENDER	M.T.
5	2025/02/24	ISSUED FOR TENDER	M.T.
4	2020/10/07	ISSUED FOR TENDER	P.H.
3	2020/08/19	ISSUED FOR 100% SUBMISSION	P.H.
2	2020/05/19	ISSUED FOR 90%	P.H.

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 HANGAR 6
8 WING
CANADIAN FORCES BASE TRENTON

PROJECT | PROJET
HANGAR 6 FIT-UP
SQUADRON OFFICES

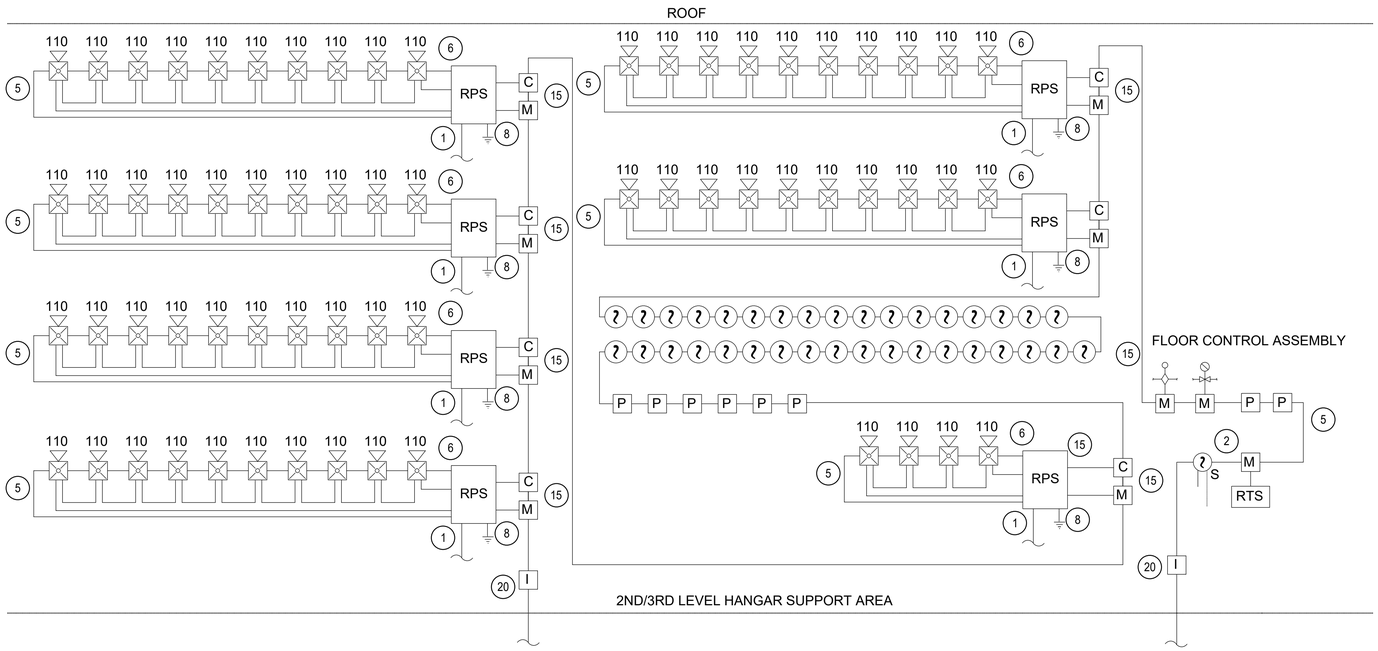
TRADE | MÉTIER: ELECTRICAL
DATE: 2020/01/08

SUBJECT | SUJET
ELECTRICAL DETAILS 1 OF 2

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ P.H.	XX | XX	DES O | AGENT CONC S.CHINNATAMBY
DRAWN | DESSINÉ P.H.	XX | XX	PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED | VÉRIFIÉ S.L.	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION		FIRE | INCENDIE CAPT. CAMPBELL

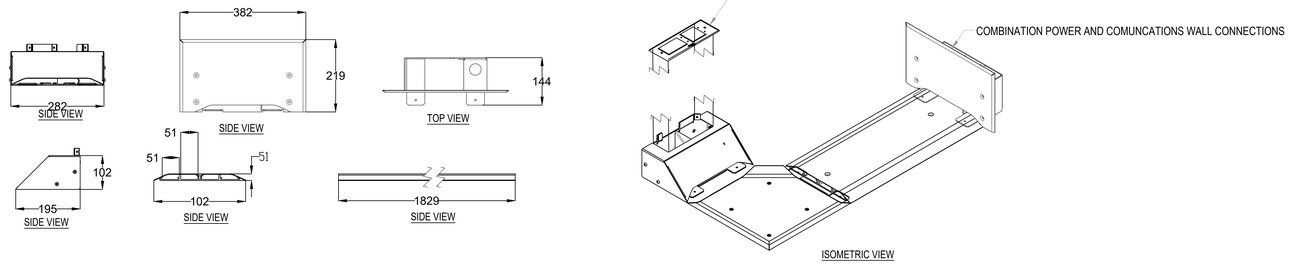
WBS NO. | NO. OTP: N.001755.03
PF NO. | NO. DP: PF 500006755
DWG. NO. | NO. DESSIN: L-T81-3019/2-507

Canada



1 / 508 FIRE ALARM SYSTEM RISER DETAIL

SCALE: N.T.S.



2 / 508 FLOOR MONUMENT DETAIL

SCALE: N.T.S.

GENERAL NOTES

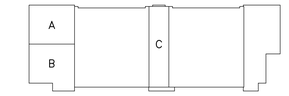
1. SEE SHEET 501 FOR GENERAL NOTES AND SYMBOLS.
2. RISER DIAGRAM IS A SCHEMATIC REPRESENTATION OF THE FIRE ALARM SYSTEM. SEE FIRE ALARM PLANS FOR LOCATIONS AND QUANTITIES OF INITIATING DEVICES AND NOTIFICATION APPLIANCES.
3. PROVIDE AND CONNECT NEW FIRE ALARM DEVICES AS SHOWN ON 800 SERIES DRAWNGS TO THE EXISTING SYSTEM AS REQUIRED.

NOTES BY SYMBOL "○"

1. EXISITNG 120 VAC, 20 AMP DEDICATED CIRCUITS.
2. EXISTING ADDRESSABLE SUPPLY AIR DUCT DETECTOR AND REMOTE TEST STATION/INDICATOR LIGHT FOR EACH AIR-HANDLING UNIT AS REQUIRED PER CAN/ULC-S524 AND CFFM.
3. EXISTING SIEMENS TRANSPONDER TO TRANSMIT ALARM, SUPERVISORY, TROUBLE, WATERFLOW, AND FOAM DISCHARGE SIGNALS UTILIZING TWO DEDICATED PHONE LINES TO THE BASE REPORTING SYSTEM FROM THE FIRE ALARM AND FOAM RELEASE PANELS.
4. EXISTING SIGNALING LINE CIRCUITS AS REQUIRED FOR THE QUANTITY OF DEVICES SHOWN ON THE DRAWINGS.
5. EXISTING CLASS A SIGNALING LINE CIRCUITS, INITIATING DEVICE CIRCUITS, AND NOTIFICATION APPLIANCE CIRCUITS PER CFFM OPERATING GUIDELINES.
6. EXISTING ADDITIONAL NOTIFICATION APPLIANCE CIRCUITS AS REQUIRED SUCH THAT NO CIRCUIT WILL BE LOADED BEYOND 80 PERCENT OF MAXIMUM CIRCUIT CAPACITY. ADDITIONAL NOTIFICATION CIRCUITS AND POWER SUPPLIES MAY BE REQUIRED DEPENDING ON EQUIPMENT PROVIDED.
7. EXISTING SMOKE DETECTORS WHERE SHOWN TO PROTECT EXIT STAIRS, EGRESS CORRIDORS, FIRE ALARM PANELS AND REMOTE NOTIFICATION POWER SUPPLIES.
8. EXISTING GROUND PER ONTARIO ELECTRICAL SAFETY CODE.
9. EXISTING SINGLE STAGE ADDRESSABLE BUILDING FIRE ALARM PANEL AND MONITOR ADDRESSABLE FOAM SYSTEM CONTROL PANEL.
10. EXISTING SINGLE-STAGE ADDRESSABLE FOAM SYSTEM PANEL FOR RELEASE OF HIGH EXPANSION FOAM SYSTEM DELUGE VALVES.
11. EXISTING FOAM SYSTEM CONTROL PANEL AND BUILDING FIRE ALARM CONTROL PANEL FOR ACTIVATION OF OCCUPANT FIRE ALARM NOTIFICATION, COMMON SIGNALS, AND ANNUNCIATION. PROVIDE A FIRE ALARM CONTROL PANEL AND FOAM SYSTEM CONTROL PANEL OF THE SAME MANUFACTURER.
12. EXISTING MONITORING FOR HANGAR SERVICING AREA SPRINKLER SYSTEM WATER FLOW AND TAMPER SWITCHES WITH FOAM SYSTEM CONTROL PANEL.
13. EXISTING MONITORING FOR HIGH EXPANSION FOAM RISER WATERFLOW AND TAMPER SWITCHES WITH FOAM SYSTEM CONTROL PANEL.
14. EXISTING MONITORING FOR CONTROL VALVE TAMPER AND WATER FLOW SWITCHES FOR HANGAR SUPPORT AREA SPRINKLER SYSTEMS, CLASS I STANDPIPE HOSE SYSTEMS, AND PAINT BOOTHS WITH FIRE ALARM CONTROL PANEL.
15. EXISTING SUPERVISION FOR REMOTE POWER SUPPLIES.
16. EXISTING MONITORING FOR FIRE WATER RESERVOIR HIGH/LOW WATER LEVELS, TAMPER SWITCHES ON CONTROL VALVES, AND FILL LINE SOLENOID VALVE.
17. EXISITING MONITORING FOR THE FOLLOWING FOR EACH DIESEL FIRE PUMP PER NFPA 20:
    - 17.1. LOW OIL PRESSURE
    - 17.2. HIGH ENGINE JACKET COOLANT TEMPERATURE
    - 17.3. FAILURE OF ENGINE TO START AUTOMATICALLY
    - 17.4. SHUTDOWN FROM OVERSPEED
    - 17.5. BATTERY FAILURE
    - 17.6. BATTERY CHARGER FAILURE
    - 17.7. LOW AIR OR HYDRAULIC PRESSURE
    - 17.8. ENGINE RUNNING
    - 17.9. CONTROLLER MAIN SWITCH IN OFF POSITION.
18. EXISTING SECURITY ACCESS CONTROL PANEL TO RELEASE ANY MAGNETIC DOOR LOCKS UPON ANY FIRE ALARM SIGNAL OR LOSS OF PRIMARY POWER TO THE FIRE ALARM PANEL.
19. EXISTING SMOKE DETECTOR WITHIN 1.5M (5 FT) OF EACH AUTOMATIC FIRE DOOR AND A CONTROL RELAY MODULE TO CLOSE THE DOOR UPON A BUILDING FIRE ALARM SIGNAL.
20. EXISTING ISOLATOR MODULES ON CIRCUITS SERVING 2ND AND 3RD LEVELS.
21. EXISTING MONITOR MODULES FOR LOW-LEVEL AND HIGH-LEVEL TRIPLE INFRARED OPTICAL FLAME DETECTORS IN A CLIMATE CONTROLLED PORTION OF THE BUILDING OR IN A CONDITIONED WEATHERPROOF ENCLOSURE.
22. EXISTING MONITORING OF FLOW SWITCH AT EACH EMERGENCY EYE WASH/SHOWER AS A SUPERVISORY SIGNAL.
23. EXISTING MONITORING OF TAMPER SWITCHES ON WATER SUPPLY TO FOAM TANKS.
24. UPDATE EXISTING ACTIVE GRAPHIC AND LCD ANNUNCIATOR PANELS AT MAIN APRON AND PERSONNEL ENTRANCES FOR FIRE DEPARTMENT RESPONSE.

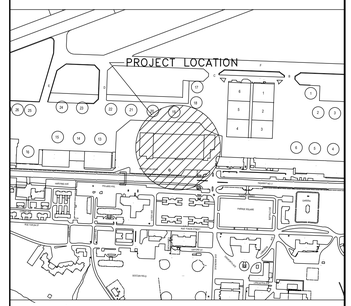
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

LICENSED PROFESSIONAL ENGINEER
2026 03 28
M. J. J. TESSIER
100100633
PROVINCE OF ONTARIO

NO.	DATE	REVISION	APPR.
6	2025/03/28	ISSUED FOR TENDER	M.T.
5	2025/02/24	ISSUED FOR TENDER	M.T.
4	2020/10/07	ISSUED FOR TENDER	P.H.
3	2020/08/19	ISSUED FOR 100% SUBMISSION	P.H.
2	2020/05/19	ISSUED FOR 90%	P.H.

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 HANGAR 6
8 WING
CANADIAN FORCES BASE TRENTON

PROJECT | PROJET
HANGAR 6 FIT-UP
SQUADRON OFFICES

TRADE | MÉTIER	DATE
ELECTRICAL	2020/01/08

SUBJECT | SUJET
SINGLE LINE DIAGRAM & ELECTRICAL DETAIL 2 OF 2

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ P.H.	XX | XX	DES O | AGENT CONC S.CHINNATAMBY
DRAWN | DESSINÉ P.H.	XX | XX	PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED | VÉRIFIÉ S.L.	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION		FIRE | INCENDIE CAPT. CAMPBELL

WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

DWG. NO. | NO. DESSIN
L-T81-3019/2-508

Canada

PANEL: LPB2

PHASE: 3Ø | VOLTS: 347/600A
TYPE: NEMA 1 | RATED: 225A | MAIN: 200A
LOCATION: ROOM 2006 | MOUNTING: SURFACE | PANEL I.C.: 10KA

CIR.No	ITEM LOCATION	W AT TS	MISC.	MECH	LIGHTS	POLES	AMPS	LOAD VA Aϕ	LOAD VA Bϕ	LOAD VA Cϕ	AMPS	POLES	LIGHTS	MECH	MISC.	W AT TS	ITEM LOCATION	CIR.No
1	LGT 2010, 2033, 2032, 2031, 2058				X		20				20		X				LGT 2000, 2004, 2001	2
3	SPARE				X		20				20		X				LGT 2004, 2042, 2038, 2037, 2036, 2035	4
5	LGT 1013, 1015, 1014				X		20				20		X				LGT ROOM 2007	6
7	LGT 2016, 2020, 2021, 2022, 2023, 2024				X		20				20		X				LGT ROOM 1027, 1001	8
9	LGT MECH 2005				X		20				20		X				LGT ROOM 1037	10
11	LGT 2011, 2012, 2014, 2013, 2015, 2018				X		20				20		X				LGT ROOM 1037	12
13	LGT ROOM 1037				X		20				**20**		**X**				**LGT ROOM 2007**	14
15	LGT ROOM 1037				X		20				20		X				SPARE	16
17	LGT ROOM 1037				X		20				20		X				SPARE	18
19	LGT ROOM 1037				X		20				20		X				SPARE	20
21	SPARE				X		20				20		X				SPARE	22
23	SPARE				X		20				-		X				SPACE	24
25	SPACE				X		-				-		X				SPACE	26
27	SPACE				X		-				-		X				SPACE	28
29	SPACE				X		-				-		X				SPACE	30
31	SPACE				X		-				-		X				SPACE	32
33	SPACE				X		-				-		X				SPACE	34
35	SPACE				X		-				-		X				SPACE	36
37	SPACE				X		-				-		X				SPACE	38
39	SPACE				X		-				-		X				SPACE	40
41	SPACE				X		-				-		X				SPACE	42
	PHASE TOTALS							### ### ### ### ### ### ### ### ### ### ### ### ##### ##### ##### # # #										
	PHASE TOTALS							##### #	##### #	##### #							BRANCH BREAKER AIC:	25kA
TOTAL LOAD:	##### kW																TOTAL AMPERAGE:	## A

PANEL: LPB4

PHASE: 3Ø | VOLTS: 120/208
TYPE: NEMA 1 | RATED: 200A | MAIN: 200A
LOCATION: ROOM 3001 | MOUNTING: SURFACE | PANEL I.C.: 10KA

CIR.No	ITEM LOCATION	W AT TS	MISC.	MECH	LIGHTS	POLES	AMPS	LOAD VA Aϕ	LOAD VA Bϕ	LOAD VA Cϕ	AMPS	POLES	LIGHTS	MECH	MISC.	W AT TS	ITEM LOCATION	CIR.No
1	AREA C LIGHTING RM 2055	240			X		15	240	240		15		X			240	AREA C LIGHTING RM 2056	2
3	AREA C LIGHTING RM 2058/B	420			X		15		420	330	15		X			150	AREA C LIGHTING RM 2058C	4
5	AREA C LIGHTING RM 2062				X		15			120	360	15	X			360	AREA C LIGHTING RM 2058A	6
7	AREA C OFFICE SPACE				X		15	40	120			15	X				AREA C OFFICE SPACE	8
9	AREA C OFFICE SPACE				X		15		180	180		15	X				AREA C OFFICE SPACE	10
11																		12
13																		14
15																		16
17																		18
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69																		70
71																		72
	PHASE TOTALS							28 0.0	36 0.0	60 0.0	33 0.0	12 0.0	36 0.0					
	PHASE TOTALS							640.0		930.0		480.0		BRANCH BREAKER AIC:				10kA
TOTAL LOAD:	2050 kW																TOTAL AMPERAGE:	6 A

SWITCHBOARD: PPA3

LOCATION: MECHANICAL 2005
SUPPLY FROM: MS-A | MOUNTING: FLOOR | ENCLOSURE: TYPE 2
VOLTS: 600V | PHASES: 3 | WIRES: 3
A.I.C. 42000 | BUSS: COPPER

CIRCUIT DESCRIPTIONS	POLE	FRAME	TRIP	LOAD
AHU-1	3	400 A	80 A	15390 VA
AHU-5	3	400 A	40 A	9690 VA
AHU-6	3	400 A	40 A	9690 VA
PPA5	3	400 A	800 A	579919 VA
SURGE PROTECTION DEVICE	3	400 A	30 A	1039 VA
MCC42	3	400 A	100 A	21615 VA
OVERHEAD DOOR (OHD-21)	3	400 A	20 A	2806 VA
POWER SMALL PARTS STORAGE M001	3	400 A	20 A	6651 VA
POWER SMALL PARTS STORAGE M001	3	400 A	20 A	3325 VA
PCA-1	3	400 A	150 A	100000 VA
AHU-11 *NEW*	**3**	**400 A**	**15 A**	**5595 VA**
CUAHU-11 *NEW*	**3**	**400 A**	**70 A**	**241176 VA**
			Total Conn. Load:	899896 VA
			Total Amps:	963.29 A

NOTES:
EXISTING SWITCHBOARD IS "SIEMENS" S5 TYPE.

PANEL: EMBB1

PHASE: 3Ø | VOLTS: 208/120V
TYPE: NEMA 1 | RATED: 100A | MAIN: 100A
LOCATION: ELECTRICAL 1038 | MOUNTING: SURFACE | PANEL I.C.: 10KA

CIR.No	ITEM LOCATION	W AT TS	MISC.	MECH	LIGHTS	POLES	AMPS	LOAD VA Aϕ	LOAD VA Bϕ	LOAD VA Cϕ	AMPS	POLES	LIGHTS	MECH	MISC.	W AT TS	ITEM LOCATION	CIR.No
1	POWER FIRE SUPPRESSION SYS				X		20	500	333		60	3	X				EMBD1	2
3									3760	333								4
5	EMBB2				X	3	60			3808	333							6
7								2448	0									8
9	**SERVER REC.**				**X**		**30**		0	0								10
11	**SERVER REC.**				**X**		**30**				0	0						12
13	**SERVER REC.**				**X**		**30**	0	0									14
15	SPARE				X		20			0	0	20	X				SPARE	16
17	SPARE				X		20				0	0	20	X			SPARE	18
	PHASE TOTALS							4481.0	333.0	3760.0	333.0	3808.0	333.0					
	PHASE TOTALS							4821.0		4113.0		4141.0		BRANCH BREAKER AIC:				10kA
TOTAL LOAD:	13075 kW																TOTAL AMPERAGE:	36 A

PANEL: BPA7

PHASE: 3Ø | VOLTS: 120/208
TYPE: NEMA 1 | RATED: 200A | MAIN: 200A
LOCATION: ROOM 2006 | MOUNTING: SURFACE | PANEL I.C.: 10KA

CIR.No	ITEM LOCATION	W AT TS	MISC.	MECH	LIGHTS	POLES	AMPS	LOAD VA Aϕ	LOAD VA Bϕ	LOAD VA Cϕ	AMPS	POLES	LIGHTS	MECH	MISC.	W AT TS	ITEM LOCATION	CIR.No
1	BAS RM 2005	X					20				15					X	SPARE	2
3	RECEPT. RM 2006	X					20				15					X	RECEPT. RM 2034	4
5	WATER CHILLER CORR. 2004	X					20				15					X	VAV75	6
7	LIGHTING RM 2034	X					20				15					X	EF-27 RM 2005	8
9	RECEPT. RM 2005	X					20				15					X	RECEPT. RM 2033	10
11	RECEPT. RMS 2004, 2035, 2036	X					20				15					X	EF-16 RM 2006	12
13	BAS RM 2005	X					20				15					X	HD WASHROOM RM 2037	14
15	RECEPT. RM 2031	X					20											16
17	HUH-36, HUH-37	X					20				15					X	HD WASHROOM RM 2039	18
19	REC. RM 2039	X					20											20
21	BPA-10	X			3	60					15					X	RECEPT. WASHROOM	22
23																		24
25											60					X	BPA-19	26
27	RECEPT. RM 2009	X					20											28
29	RECEPT. WASHROOM 2037	X					20				15					X	RECEPT. RM 2037	30
31	BPA-8	X					100				15					X	SPARE	32
33											15					X	SPARE	34
35											15					X	SPARE	36
37	RECEPT. RM 2034	X					20				15					X	SPARE	38
39	RECEPT. RM 2034	X					20				15					X	RECEPT. RMS 2037, 2039	40
41	RECEPT. RMS 2005	X					20				15					X	RECEPT. RM 2034	42
43	RECEPT. RM 2010, 2007	X					20				15					X	FVAV-17	44
45	RECEPT. RM 2004, 2007	X					20				**15**					**X**	**FVAV-17, 52, 53**	46
47	RECEPT., RMS 2038, M040, 2040	X					20				15					X	FVAV-17	48
49	SYSTEMS FURNITURE 2034	X					20											50
51	SYSTEMS FURNITURE 2034	X					20				15					X	SYSTEM FURN. 2034	52
53	SYSTEMS FURNITURE 2034	X					20											54
55	MOTORIZED DAMPER RM 2057	X					20				**20**					**X**	**2007G**	56
57	**2007F**						**20**				20					X	2007G	58
59	**2007F**						**20**				20					X	2007G	60
61	**2007F**						**20**				20					X	2007G	62
63	**2007C**						**20**											64
65	**2007D**	X					**20**				**15**	**3**		**X**	**X**		**SRIA/B**	66
67	**2007E**	X					**20**											68
69	**ELEC. TRAP PRIMER**		X				**20**							X				70
71		X												X				72
73		X												X				74
75		X												X				76
77		X												X				78
	PHASE TOTALS							### ### ### ### ### ### ### ### ### ### ### ### ##### ##### ##### # # #										
	PHASE TOTALS													BRANCH BREAKER AIC:				10kA
TOTAL LOAD:	##### kW																TOTAL AMPERAGE:	## A

PANEL: BPA8

PHASE: 3Ø | VOLTS: 120/208
TYPE: NEMA 1 | RATED: 200A | MAIN: 200A
LOCATION: CORR. 2017 | MOUNTING: SURFACE | PANEL I.C.: 10KA

CIR.No	ITEM LOCATION	W AT TS	MISC.	MECH	LIGHTS	POLES	AMPS	LOAD VA Aϕ	LOAD VA Bϕ	LOAD VA Cϕ	AMPS	POLES	LIGHTS	MECH	MISC.	W AT TS	ITEM LOCATION	CIR.No
1	AREA A/B EXISTING CIRCUIT						20				**20**					X	**FURNITURE POLE RM 2025**	2
3	**VAV-21 & VAV-23**	X						**20**			**20**					**X**	**FURNITURE POLE RM 2025**	4
5	**AREA A/B EXISTING CIRCUIT**	X						**20**			**20**					**X**	**FURNITURE POLE RM 2025**	6
7	**VAV-18**	X						**20**			20					X	AREA A/B EXISTING CIRCUIT	8
9	**AREA A/B EXISTING CIRCUIT**	X						**20**			**20**					**X**	**RECEPT. RM 2041A**	10
11	**RECEPT. RM 2041A**	X						**20**			20					X	AREA A/B EXISTING CIRCUIT	12
13	AREA A/B EXISTING CIRCUIT	X						20			20					X	AREA A/B EXISTING CIRCUIT	14
15	AREA A/B EXISTING CIRCUIT	X						20			20					X	AREA A/B EXISTING CIRCUIT	16
17	AREA A/B EXISTING CIRCUIT	X						20			**20**					**X**	**RECEPT. RM 2041B**	18
19	AREA A/B EXISTING CIRCUIT	X						20			**20**					**X**	**RECEPT. RM 2042**	20
21	**RECEPT. RM 2041B**	X						**20**			**20**					**X**	**RECEPT. RM 2042**	22
23	**RECEPT. RM 2042**	X						**20**			20					X	AREA A/B EXISTING CIRCUIT	24
25	**FURNITURE POLE RM 2025**	X						**20**			20					X	AREA A/B EXISTING CIRCUIT	26
27	**FURNITURE POLE RM 2025**	X						**20**			**20**					**X**	**RECEPT. RM 2022**	28
29	**FURNITURE POLE RM 2025**	X						**20**			20					X	AREA A/B EXISTING CIRCUIT	30
31	AREA A/B EXISTING CIRCUIT	X						20			20					X	AREA A/B EXISTING CIRCUIT	32
33	AREA A/B EXISTING CIRCUIT	X						20			**20**					**X**	**RECEPT. RM 2022**	34
35	**RECEPT. RM 2024**	**X**						**20**			**20**					**X**	**RECEPT. RM 2019**	36
37	**RECEPT. RM 2020**	**X**						**20**			**20**					**X**	**RECEPT. RMS 2017, 2018, 2021**	38
39	**RECEPT. RM 2019**	**X**						**20**			**20**					**X**	**RECEPT. RM 2024**	40
41	**RECEPT. RM 2017**	**X**						**20**										42
43	**RECEPT. RM 2020**	**X**						**20**			**20**	**3**				**X**	**FURNITURE POLE RM 2042**	44
45																		46
47	**FURNITURE POLE RM 2042**	**X**				**3**	**20**				20					X	AREA A/B EXISTING CIRCUIT	48
49											20					X	AREA A/B EXISTING CIRCUIT	50
51	**FURNITURE POLE RM 2022**	**X**						**20**			20					X	AREA A/B EXISTING CIRCUIT	52
53	**FURNITURE POLE RM 2022**	**X**						**20**			**20**					**X**	**FURNITURE POLE RM 2023**	54
55	**FURNITURE POLE RM 2022**	**X**						**20**			**20**					**X**	**FURNITURE POLE RM 2023**	56
57	AREA A/B EXISTING CIRCUIT	X						20			**20**					**X**	**FURNITURE POLE RM 2023**	58
59	AREA A/B EXISTING CIRCUIT	X						20			20					X	AREA A/B EXISTING CIRCUIT	60
61	**2034**	**X**						**20**			**20**					**X**	**2032A**	62
63	**2034**	**X**						**20**			20					X	AREA A/B EXISTING CIRCUIT	64
65	**2034**	**X**						**20**			20					X	AREA A/B EXISTING CIRCUIT	66
67	AREA A/B EXISTING CIRCUIT	X						20			20					X	AREA A/B EXISTING CIRCUIT	68
69																		70
71																		72
	PHASE TOTALS							### ### ### ### ### ### ### ### ### ### ### ### ##### ##### ##### # # #										
	PHASE TOTALS													BRANCH BREAKER AIC:				10kA
TOTAL LOAD:	##### kW																TOTAL AMPERAGE:	## A

PANEL: BPA9

PHASE: 3Ø | VOLTS: 120/208
TYPE: NEMA 1 | RATED: 200A | MAIN: 200A
LOCATION: CORR. 2016 | MOUNTING: SURFACE | PANEL I.C.: 10KA

CIR.No	ITEM LOCATION	W AT TS	MISC.	MECH	LIGHTS	POLES	AMPS	LOAD VA Aϕ	LOAD VA Bϕ	LOAD VA Cϕ	AMPS	POLES	LIGHTS	MECH	MISC.	W AT TS	ITEM LOCATION	CIR.No
1	AREA A/B EXISTING CIRCUIT	X					20				20			X			AREA A/B EXISTING CIRCUIT	2
3	VAV-14, VAV-15, VAV-16, VAV-17, & VAV-20	X					20				20			X			RECEPT. RM 2012	4
5	VAV-12	X					20				20			X			RECEPT. RM 2015	6
7	**RECEPT. RM 2011**	X					20				20			X			**RECEPT. RM 2016**	8
9	**RECEPT. RM 2014**	X					20				20			X			**RECEPT. RM 2016**	10
11	**RECEPT. RM 2018**	X					20				20			X			**RECEPT. RM 2030**	12
13	**RECEPT. RM 2030**	X					20				20			X			RECEPT. RM 2013	14
15	**RECEPT. RM 2030**	X					20				20			X			RECEPT. RM 2010	16
17	**RECEPT. RMS 2016, 2028**	X					20				20			X			**RECEPT. RM 2013**	18
19	**RECEPT. RMS 2032A, 2032B, 2032C**	X					20				20			X			AREA A/B EXISTING CIRCUIT	20
21	**RECEPT. RM 2015**	X					20				20			X			AREA A/B EXISTING CIRCUIT	22
23	AREA A/B EXISTING CIRCUIT	X					20				20			X			AREA A/B EXISTING CIRCUIT	24
25	AREA A/B EXISTING CIRCUIT	X					20				20			X			AREA A/B EXISTING CIRCUIT	26
27	AREA A/B EXISTING CIRCUIT	X					20				20			X			AREA A/B EXISTING CIRCUIT	28
29	FURNITURE POLE RM 2014	X					20				20			X			AREA A/B EXISTING CIRCUIT	30
31	FURNITURE POLE RM 2014	X					20				20			X			FURNITURE POLE RM 2012	32
33	FURNITURE POLE RM 2014	X					20				20			X			FURNITURE POLE RM 2012	34
35	2007A	X					20				20			X			FURNITURE POLE RM 2012	36
37	2007A	X					20				20			X			2007A/ 2007G	38
39	2007A	X					20				20			X			2007A	40
41	2007A	X					20				20			X			2007A	42
43	2007A	X					20				20			X			2007A	44
45	2007A	X					20				20			X			2007A	46
47	2007A	X					20				20			X			2007A	48
49	2007A	X					20				20			X			2007H	50
51	2007A	X					20				20			X			2007H	52
53	2007B	X					20				20			X			2007H	54
55	**ROOF MAINTENANCE**	X					20											56
57	AREA A/B EXISTING CIRCUIT	X					20				20			X			AREA A/B EXISTING CIRCUIT	58
59	AREA A/B EXISTING CIRCUIT	X					20				20			X			AREA A/B EXISTING CIRCUIT	60
	PHASE TOTALS							### ### ### ### ### ### ### ### ### ### ### ### ##### ##### ##### # # #										
	PHASE TOTALS													BRANCH BREAKER AIC:				10kA
TOTAL LOAD:	##### kW																TOTAL AMPERAGE:	## A

PANEL: BPA10

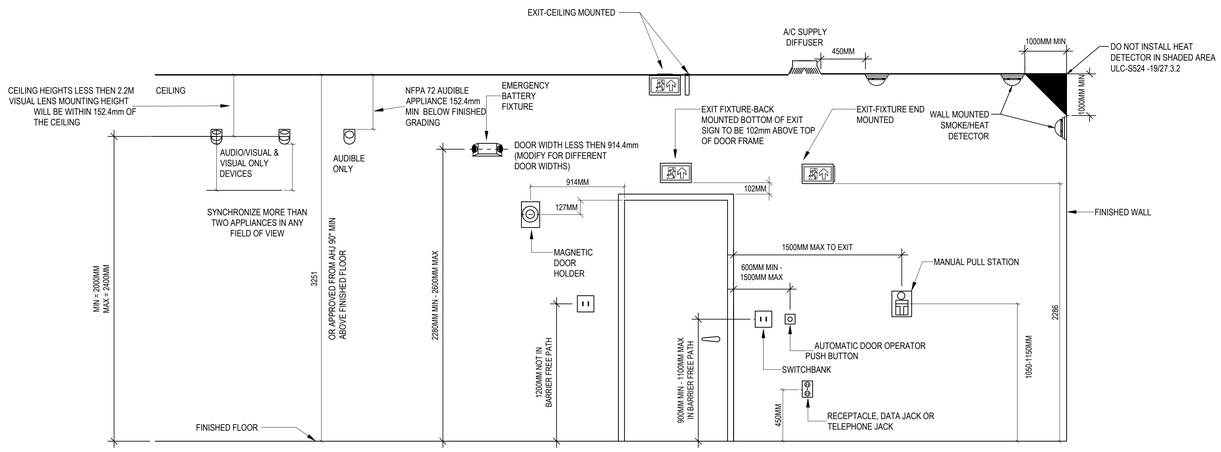
PHASE: 3Ø | VOLTS: 120/208
TYPE: NEMA 1 | RATED: 250A | MAIN: 200A
LOCATION: MECH 2005 | MOUNTING: SURFACE | PANEL I.C.: 10KA

CIR.No	ITEM LOCATION	W AT TS	MISC.	MECH	LIGHTS	POLES	AMPS	LOAD VA Aϕ	LOAD VA Bϕ	LOAD VA Cϕ	AMPS	POLES	LIGHTS	MECH	MISC.	W AT TS	ITEM LOCATION	CIR.No
1	LIGHTING MECH RM 2005	X					20				20					X	IN USE	2
3	BAS MECH RM 2005	X					20				20					X	IN USE	4
5	SPARE	X					20				20					X	HUA/HUE	6
7	FC-2	X					20				20					X	EF-2	8
9	HUH-35, HUH-7	X					20				20					X	HUH-34, HUH-10	10
11	BAS MECH RM 2005	X					20				20					X	HUA/HUI-1	12
13	GT-4	X					20				20					X	BAS MECH RM 2005	14
15	BAS MECH RM 2005	X					20				20					X	TRAP SEAL PRIMER MECH 2005	16
17	BAS MECH RM 2005	X					20				20					X	SPARE	18
19	SPARE	X					20				20					X	RECEPT. MECH 2005	20
21	RECEPT. RMS 2000, 2003	X					20				20					X	RECEPT. RMS 2007, 2004	22
23	RECEPT. RMS 2001, 2006	X					20				20					X	RECEPT. RMS 2007, 2004	24
25	RECEPT. MECH 2005	X					20				**20**					**X**	**HUA/HUI-11**	26
27	ELU	X					20				20					X	**SF-01**	28
29	**FSD's**	**X**					**20**				20					X	**VAV's**	30
31	**FURNITURE POLE 2007U**	**X**					**20**				20					X	**FURNITURE POLE 2007H**	32
33	**FURNITURE POLE 2007U**	**X**					**20**				20					X	**FURNITURE POLE 2007H**	34
35	**FURNITURE POLE 2007U**	**X**					**20**				20					X	**FURNITURE POLE 2007H**	36
37	**FURNITURE POLE 2007H**	**X**					**20**				20					X	**RECEPT. 2007H**	38
39	**FURNITURE POLE 2007H**	**X**					**20**				20					X	**RECEPT. 2007H**	40
41	**FURNITURE POLE 2007H**	**X**					**20**				20					X	**RECEPT. 2007H**	42
43	**FURNITURE POLE 2007H**	**X**					**20**				20					X	2007S	44
45	**FURNITURE POLE 2007H**	**X**					**20**				20					X	2007S	46
47	**FURNITURE POLE 2007H**	**X**					**20**				20					X	2007S	48
49	2007T	X					20				20					X	2007H	50
51	2007T	X					20				20					X	2007H	52
53	2007T	X					20				20					X	2007H	54
55	2007R	X					20				20					X	2007H	56
57	2007R	X					20				20					X	2007H	58
59	2007R	X					20				20					X	2007H	60
	PHASE TOTALS							### ### ### ### ### ### ### ### ### ### ### ### ##### ##### ##### # # #										
	PHASE TOTALS													BRANCH BREAKER AIC:				10kA
TOTAL LOAD:	##### kW																TOTAL AMPERAGE:	## A

PANEL: BPA11

PHASE: 3Ø | VOLTS: 120/208
TYPE: NEMA 1 | RATED: 200A | MAIN: 200A
LOCATION: ROOM 2044 | MOUNTING: SURFACE | PANEL I.C.: 10KA

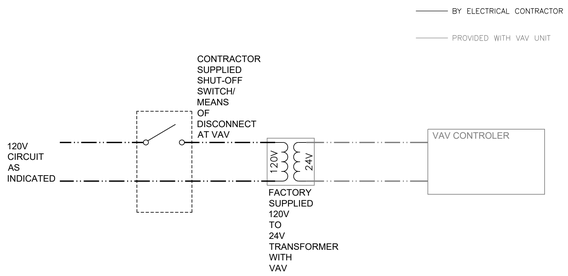
CIR.No	ITEM LOCATION	W AT TS	MISC.	MECH	LIGHTS	POLES	AMPS	LOAD VA Aϕ	LOAD VA Bϕ	LOAD VA Cϕ	AMPS	POLES	LIGHTS	MECH	MISC.	W AT TS	ITEM LOCATION	CIR.No
1	**VAV-32 & VAV-35**	X					20				20			X			AREA C EXISTING CIRCUIT	2
3	AREA C EXISTING CIRCUIT	X					20				20			X			AREA C EXISTING CIRCUIT	4
5	AREA C EXISTING CIRCUIT	X					20				20			X			AREA C EXISTING CIRCUIT	6
7	**RECEPT. 2051**	X					20				20			X			AREA C EXISTING CIRCUIT	8
9	AREA C EXISTING CIRCUIT	X					20				20			X			AREA C EXISTING CIRCUIT	10
11	AREA C EXISTING CIRCUIT	X					20				20			X			AREA C EXISTING CIRCUIT	12
13	AREA C EXISTING CIRCUIT	X					20				20			X			AREA C EXISTING CIRCUIT	14
15	AREA C EXISTING CIRCUIT	X					20				20			X			AREA C EXISTING CIRCUIT	16
17	AREA C EXISTING CIRCUIT	X					20				20			X			AREA C EXISTING CIRCUIT	18
19	AREA C EXISTING CIRCUIT	X					20				**20**			**X**			**RECEPT. 2066A**	20
21	AREA C EXISTING CIRCUIT	X					20				**20**			**X**			**WALL TV 2051**	22
23	AREA C EXISTING CIRCUIT	X					20				20			X			AREA C EXISTING CIRCUIT	24
25	AREA C EXISTING CIRCUIT	X					20				**20**			**X**			**FLOOR RECEPT. 2051**	26
27	AREA C EXISTING CIRCUIT	X					20				20			X			AREA C EXISTING CIRCUIT	28
29	AREA C EXISTING CIRCUIT	X					20				**20**			**X**			**RECEPT. 2061**	30
31	AREA C EXISTING CIRCUIT	X					20				20			X			AREA C EXISTING CIRCUIT	32
33	AREA C EXISTING CIRCUIT	X					20				20			X			AREA C EXISTING CIRCUIT	34
35	AREA C EXISTING CIRCUIT	X					20				20			X			AREA C EXISTING CIRCUIT	36
37	AREA C EXISTING CIRCUIT	X					20				20			X			AREA C EXISTING CIRCUIT	38
39	AREA C EXISTING CIRCUIT	X					20				20			X			AREA C EXISTING CIRCUIT	40
41	AREA C EXISTING CIRCUIT	X					20				20			X			AREA C EXISTING CIRCUIT	42
43	AREA C EXISTING CIRCUIT	X					20				20			X			AREA C EXISTING CIRCUIT	44
45	AREA C EXISTING CIRCUIT	X					20				20			X			AREA C EXISTING CIRCUIT	46
47	AREA C EXISTING CIRCUIT	X					20				20			X			AREA C EXISTING CIRCUIT	48
49	AREA C EXISTING CIRCUIT	X				



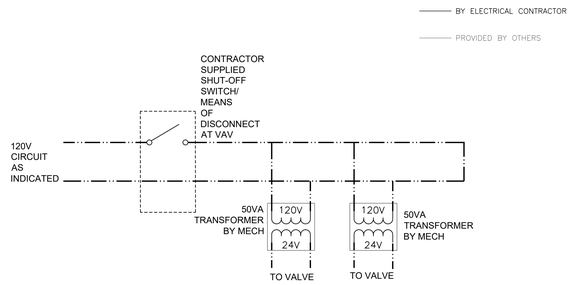
1/510 MOUNTING HEIGHT DETAILS
SCALE: N.T.S.

SCHEDULE No.1 - EQUIPMENT POWER

TAG	DESCRIPTION	SUPPLY	INSTALL	WIRED	D/S PROVI DED BY	POWER					
						RATING	VOLTS/ø	FEEDER	PANEL/CCT #	BREAKER	D/S
AHU-11	NEW AHU MECH ROOM	M	M	E	E	7.5HP	600V/3Ø	4#12 Cu.	AS SHOWN	15A	YES
AHU/CU-11	NEW CU ON ROOF	M	M	E	E	52KW	600V/3Ø	4#4 Cu.	AS SHOWN	70A	YES
HU-AHU-11	NEW HUM MECH ROOM	M	M	E	E	500W	120V/1Ø	2#12 Cu.	AS SHOWN	20A	YES
PLUMBING VALVES	NEW NEW W/R PLUMBING VALVES	M	M	E	E	500W	120V/1Ø	2#12 Cu.	AS SHOWN	20A	NO
AC/CU-01	NEW IT CU ON ROOF	M	M	E	E	2KW	208V/1Ø	3#12 Cu.	AS SHOWN	20A	YES
VAV XX CTYP	NEW VAV'S	M	M	E	E	1000W	120V/1Ø	2#12 Cu.	AS SHOWN	20A	YES
SP-1A1B	PUMPS	M	M	E	E	400W	208V/3Ø	4#12 Cu.	AS SHOWN	20A	YES
SF-01	SYSTEM FEEDER	M	M	E	E	300W	120V/1Ø	2#12 Cu.	AS SHOWN	20A	YES
FSD'S	FIRE SMOKE DAMPERS	M	M	E	E	600W	120V/1Ø	2#12 Cu.	AS SHOWN	20A	YES
TSP	ELECTRONIC TRAP SEAL PRIMER	M	M	E	E	100W	120V/1Ø	2#12 Cu.	AS SHOWN	20A	NO



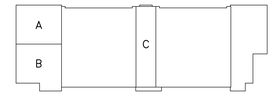
2/510 VAV ELECTRICAL CONNECTION DETAIL
SCALE: N.T.S.



3/510 PUMBING VALVES DETAIL
SCALE: N.T.S.

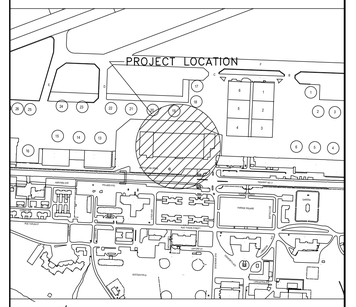
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N. T. S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N. T. S.

LICENSED PROFESSIONAL ENGINEER
2025 03 28
M. J. TESSIER
100100693
PROVINCE OF ONTARIO

NO.	DATE	REVISION	APPR.
6	2025/03/28	ISSUED FOR TENDER	M.T.
5	2025/02/24	ISSUED FOR TENDER	M.T.
4	2020/10/07	ISSUED FOR TENDER	P.H.
3	2020/08/19	ISSUED FOR 100% SUBMISSION	P.H.
2	2020/05/19	ISSUED FOR 90%	P.H.

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 HANGAR 6
8 WING
CANADIAN FORCES BASE TRENTON

PROJECT | PROJET
HANGAR 6 FIT-UP
SQUADRON OFFICES

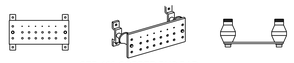
TRADE | MÉTIER: ELECTRICAL
DATE: 2020/01/08

SUBJECT | SUJET
MECHANICAL EQUIPMENT SCHEDULE & ELECTRICAL DETAIL

PRODUCTION	REVIEWED	REVU	
DESIGNED	ÉTUDIÉ	P.H.	XX | XX	DES O | AGENT CONC	S.CHINNATAMBY
DRAWN	DESSINÉ	P.H.	XX | XX	PROJ MGR | GEST PROJ	S.CHINNATAMBY
CHECKED	VÉRIFIÉ	S.L.	XX | XX	DES MGR | GEST CONC	X.X.
COORDINATION				FIRE | INCENDIE	CAPT. CAMPBELL

WBS NO. | NO. OTP: N.001755.03
PF NO. | NO. DP: PF 500006755
DWG. NO. | NO. DESSIN: L-T81-3019/2-510

Canada



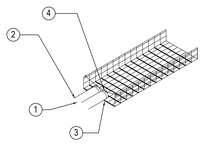
SEB-100 COPPER BUS BAR

AN INSULATED PRE-DRILLED ELECTRO TIN PLATED COPPER BUSBAR, MINIMUM DIMENSIONS OF 6MM THICK X 100MM WIDE X 300MM LONG, (LONGER LENGTH MAY BE REQUIRED TO ACCOMMODATE LARGE OR FUTURE CONNECTION REQUIREMENTS), SHALL BE INSTALLED ON THE WALL OF TELECOMMUNICATIONS ROOM #2036, ADJACENT TO THE CABLE ENTRANCE CONDUITS, 150MM FROM THE CORNER OF THE ROOM AND 150MM A.F.F. REFER TO ROOM LAYOUT DRAWING (705) FOR FURTHER DETAIL ON LOCATION, TO BE CONFIRMED ON SITE WITH TECHNICAL AUTHORITY.
THIS BUSBAR IS KNOWN AS THE MAIN GROUNDING BUSBAR (SEB-100) AND SHALL BE INSULATED FROM ITS SUPPORT BY A MINIMUM OF 50MM.

NOTES:

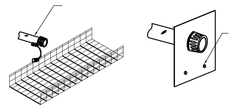
1. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ONE MOUNTED GROUND BUS IN TELECOMMUNICATIONS ROOM #2036.
2. GROUND BUS BAR SHALL BE INSTALLED 150MM (6") AFF.
3. ALL BRANCH GROUNDING WITHIN TELECOMMUNICATIONS ROOM #2036 SHALL BE FURNISHED AND INSTALLED BY THE COMMUNICATIONS CONTRACTOR.
4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A GROUND CONNECTION BETWEEN THE BASE BUILDING SERVICE ENTRANCE GROUNDING ELECTRODE AND THE GROUND BUS INSTALLED IN ROOM #2036.
5. ALL GROUNDING TERMINATIONS SHALL BE DONE WITH U.L. LISTED HYPRESS LUGS AND GROUNDING CLAMPS.

1/701 GROUNDING BUS BAR DETAILS
SCALE: N.T.S



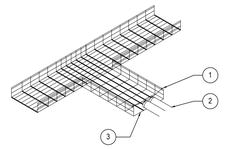
1. 27MM OR 54MM EMT CONDUITS (FOR STRUCTURED CABLING)
2. CONDUITS ENTERING THE CABLE TRAY SHALL TERMINATE 53-100MM INSIDE THE TRAY AND SHALL NOT OBSTRUCT THE MAIN CABLE PATH.
3. THE OPENING MADE IN THE THE CABLE TRAY SHALL BE FREE OF SHARP EDGES. BOTTOM OF CONDUITS SHALL REST ON THE CABLE TRAY. CABLE TRAY SHALL HAVE SUSPENSION 600MM ON EITHER SIDE OF THE CONDUIT ENTRY POINT.
4. CONDUITS WILL BE TERMINATED AT BOTH ENDS WITH A GROUND BUSHING AND BONDED TO THE CABLE TRAY AT BOTH ENDS WITH MINIMUM #6 AWG COPPER GROUND WIRE.

2/701 CONDUIT ENTRY INTO CABLE TRAY 1
SCALE: N.T.S



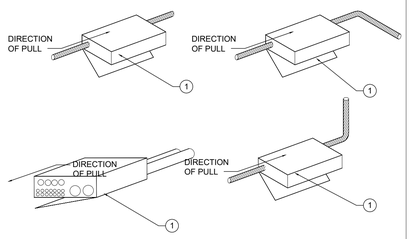
1. SHALL COMMENCE WITHIN 100MM ABOVE AND PERPENDICULAR TO THE INSIDE EDGE OF THE WIRE BASKET ON THE CLOSEST SIDE TO THE OUTLET BOX;
2. SHALL BE REAMED AND BUSHED;
3. SHALL BE BONDED WITH GREEN-JACKETED, #6 AWG RW90 STRANDED COPPER CONDUCTOR.
4. SHALL USE IRREVERSIBLE COMPRESSION ON OR EXOTHERMIC WELD TYPE LUGS/CONNECTORS, INSTALLED IAW MANUFACTURER'S SPECIFICATIONS.
5. MATERIALS BOLTED OR RIVETED TO THE CABLE TRAY SHALL BE FREE OF BURRS AND OR SHARP EDGES. DO NOT ALLOW BOLTS AND OR RIVETS TO OBSTRUCT OR INTERFERE WITH THE INTERIOR SPACE OF THE TRAY.

3/701 CONDUIT ENTRY INTO CABLE TRAY 2
SCALE: N.T.S



1. CONDUITS ENTERING WIRE BASKET FROM THE SIDE SHALL BE BONDED TO THE CABLE TRAY WITH A MINIMUM #6 AWG COPPER GROUND WIRE.
2. 27MM OR 54MM EMT CONDUITS (FOR STRUCTURED CABLING).
3. THE OPENING MADE IN THE SIDE OF THE WIRE BASKET SHALL BE FREE OF SHARP EDGES. BOTTOM OF CONDUITS SHALL REST ON THE WIRE BASKET. WIRE BASKET SHALL HAVE SUSPENSION 600MM ON EITHER SIDE OF THE CONDUIT ENTRY.

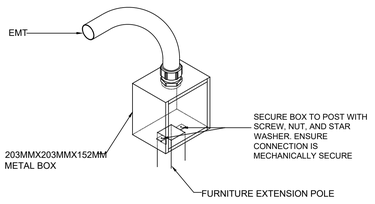
4/701 TYPICAL CONDUIT SIDE ENTRY TO TRAY
SCALE: N.T.S



DETAIL NOTES:

1. CONDUITS SHALL ONLY EXIT IN THE DIRECTION OF THE PULL. CONDUITS SHALL NEVER EXIT THE BACK, SIDES OR TOP OF A PULL BOX. CONDUIT ENDS SHALL BE ALIGNED.

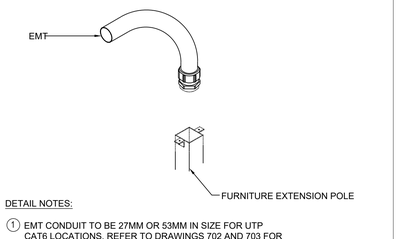
5/701 PULLBOX DETAILS
SCALE: N.T.S



DETAIL NOTES:

1. EMT CONDUIT TO BE 27MM OR 53MM IN SIZE FOR RDS LOCATIONS, REFER TO DRAWING 704 FOR FURTHER DETAILS.
2. BOND TO GROUND WITH MINIMUM #6 AWG COPPER GROUND WIRE.
3. TELECOMMUNICATIONS CABLING CANNOT BE RAN IN FURNITURE POLE WITH ELECTRICAL CABLING.

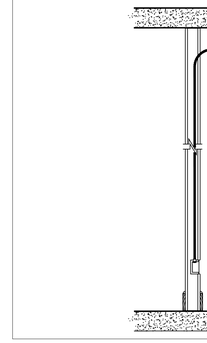
6/701 TYPICAL CONDUIT TO FURNITURE POLE DETAILS - RDS
SCALE: N.T.S



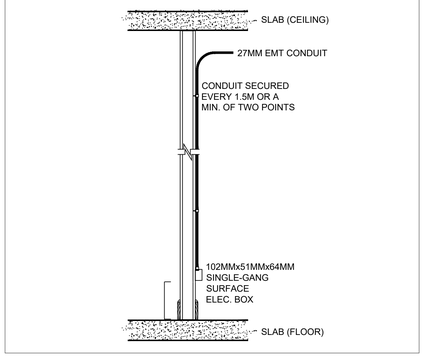
DETAIL NOTES:

1. EMT CONDUIT TO BE 27MM OR 53MM IN SIZE FOR UTP CAT6 LOCATIONS, REFER TO DRAWINGS 702 AND 703 FOR FURTHER DETAILS.
2. CABLING TO RUN FREE AIR FROM CONDUIT DOWN TO FURNITURE POLE. END CONDUIT APPROXIMATELY 300MM FROM TOP OF FURNITURE POLE, FURNISH WITH CONNECTOR AND BUSHING. BOND TO GROUND WITH MINIMUM #6 AWG COPPER GROUND WIRE.
3. TELECOMMUNICATIONS CABLING CANNOT BE RAN IN FURNITURE POLE WITH ELECTRICAL CABLING.

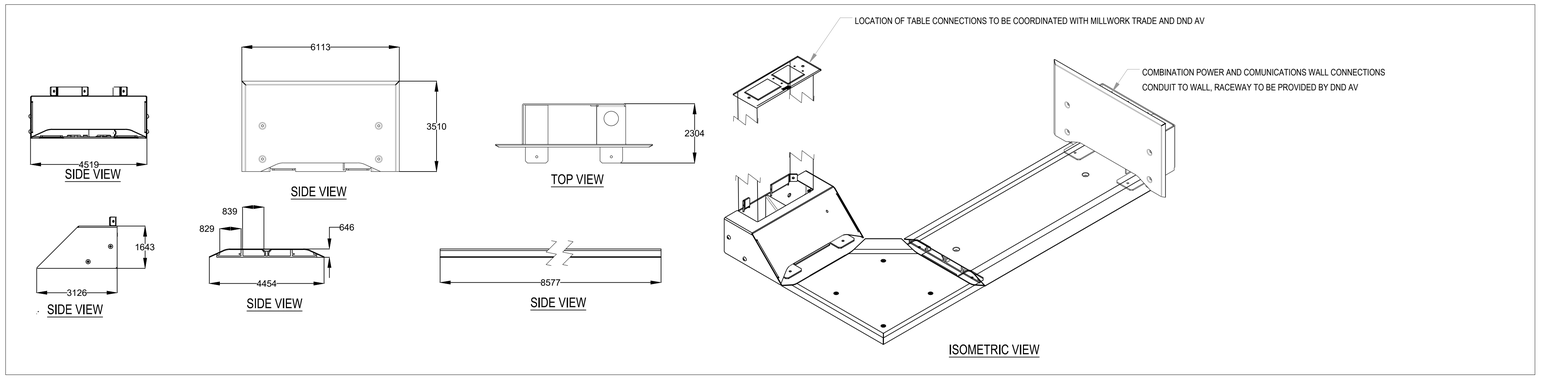
7/701 TYPICAL CONDUIT TO FURNITURE POLE DETAILS - UTP
SCALE: N.T.S



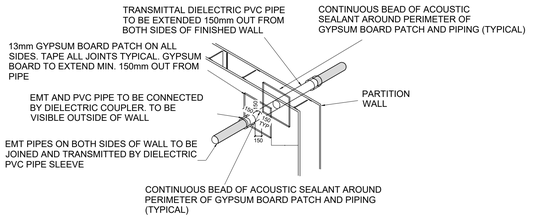
8/701 TYPICAL IN-WALL CONDUIT DETAILS
SCALE: N.T.S

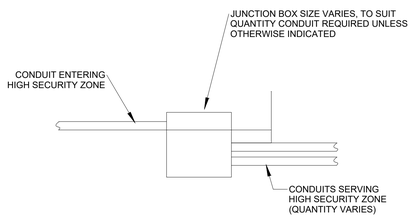


9/701 TYPICAL SURFACE MOUNTED CONDUIT DETAILS
SCALE: N.T.S



10/701 OVER FLOOR RACEWAY DETAILS (TO BE PROVIDED BY DND AV)
SCALE: N.T.S





DETAIL NOTES:

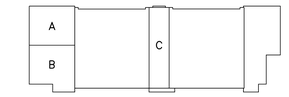
1. EMT CONDUITS TO BE 27MM OR 54MM IN SIZE FOR RDS LOCATIONS, REFER TO DRAWING 704 FOR FURTHER DETAILS.
2. CONDUITS INSIDE DIAMETERS, AND AROUND PENETRATIONS TO BE PROPERLY SEALED WITH FIRESTOP MATERIAL (ON BOTH SIDES OF PENETRATION).
3. CONDUITS TO BE FURNISHED WITH CONNECTOR, BUSHING, DI-ELECTRIC BREAK, AND BE BONDED TO GROUND WITH A MINIMUM #6 AWG COPPER GROUND WIRE.
4. MAINTAIN A MINIMUM 600MM FROM PARTITION CORNERS AND OTHER PENETRATIONS UNLESS OTHERWISE INDICATED.
5. MINIMIZE PENETRATIONS AND PASS-THROUGHS IN SSR WALLS WHERE POSSIBLE. DO NOT LOCATE PASS-THROUGHS IN THE CRITICAL ATTACK AREA.
6. WHERE PENETRATIONS AND PASS-THROUGHS ARE REQUIRED, FRAME OPENINGS WITHIN 1 INCH (25MM) OF THE PIPE/CONDUIT AND SECURE TO THE STUD FRAMING AT MINIMUM TWO (2) PLACES.
7. EXTEND THE WALL PROTECTION MATERIAL TO WITHIN ¾ INCH (20MM) OF THE EDGE OF THE OPENING. EXTEND GYPSOM WALL BOARD TO THE EDGE TO THE PIPE/CONDUIT.
8. SEAL ALL GAPS WITH FIRE RATED OR ACOUSTIC SEALANT. RECOMMENDED PRODUCT STANDARD: ASTM E 814 (UL 1479) OR CAN/ULC S115, OR AS REQUIRED BY TECHNICAL AUTHORITY AND AUTHORITY HAVING JURISDICTION.
9. WHERE NECESSARY TO ACCOMMODATE PIPE OR CONDUIT MOVE OR EXPANSION, PIPES AND CONDUITS MAY BE ENCLOSED IN A CLOSE-FITTING SHEET METAL SLEEVE AND THE SLEEVE MECHANICALLY FASTENED TO THE STUD FRAMING AT MINIMUM TWO (2) PLACES. CLEARANCE BETWEEN THE SLEEVE AND PIPE OR CONDUIT SHOULD BE KEPT TO A MINIMUM AND NOT EXCEED ¾ INCH (20MM).

11/701 TYPICAL CONDUIT PENETRATION DETAILS
SCALE: N.T.S

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
BEN NYVELD
BICSI ID# 204689
EXPIRES 12-31-22
2020-10-07
RCDD

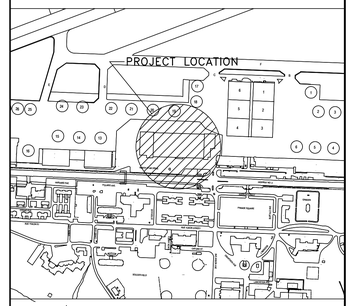
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

GENERAL NOTES

1. DO NOT SCALE DRAWINGS.
2. CONTRACTOR IS RESPONSIBLE TO CHECK AND FIELD VERIFY ALL DIMENSIONS.
3. ALL ELECTRICAL WORK TO BE CARRIED OUT BY CERTIFIED ELECTRICIAN.
4. CONTRACTOR TO NOTIFY DESIGN CONSULTANT IMMEDIATELY OF ANY DISCREPANCIES OF DIMENSIONS, MATERIALS OR CONDITIONS.
5. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS, SPECIFICATIONS AND CONSTRUCTION DOCUMENTS.
6. UNLESS OTHERWISE INDICATED AS EXISTING, ALL MATERIALS ARE NEW AND ARE SUPPLIED AND INSTALLED AS PART OF THIS CONTRACT.
7. CONTRACTOR TO ENSURE ALL WORK AREAS IN CONTRACT ARE FREE OF DEBRIS AND LOOSE MATERIALS AT COMMENCEMENT OF WORK ONSITE AND AT ALL TIMES DURING CONSTRUCTION PERIOD. REMOVE ALL FOREIGN OBJECT DEBRIS (FOD) [SCREWS, GARBAGE, UNSECURED MATERIALS, ETC.] FROM AREA.
8. PROVIDE PROTECTION TO ALL "EXISTING TO REMAIN" MATERIALS.
9. REPAIR, PATCH AND MAKE GOOD ALL EXISTING FINISHES AND SURFACES AFFECTED BY WORK.
10. MAKE ALL EXISTING SURFACES, IN AREA OF WORK, READY TO RECEIVE NEW FINISH.
11. ALL ACCESS HATCHES ARE TO BE PROVIDED BY THE MECHANICAL/ELECTRICAL CONTRACTOR TO SUIT. PROVIDE SIZE AND LOCATIONS TO CONSULTANTS FOR REVIEW AND COORDINATION, PRIOR TO INSTALLATION.
12. SECURITY EQUIPMENT REMOVAL AND REINSTATEMENT (BY OWNER). ACCESS AND LOCATIONS TO BE COORDINATED, PRIOR TO ENCLOSING CEILINGS/WALLS.
13. ALL CORING, SAW CUTS AND PENETRATIONS THROUGH STRUCTURE TO BE SCANNED, REVIEWED & APPROVED BY LICENSED STRUCTURAL ENGINEER.

NO.	DATE	REVISION	APPR.
4	2020/10/07	ISSUED FOR TENDER	B.N.
3	2020/08/19	ISSUED FOR 100% SUBMISSION	B.N.
2	2020/05/19	ISSUED FOR 90% SUBMISSION	B.N.
1	2020/03/26	ISSUED FOR 60% SUBMISSION	B.N.

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
TELECOMMUNICATIONS	2020/10/07

SUBJECT | SUJET
LEGEND AND KEYPLAN

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ B.N.	XX | XX	DES O | AGENT CONC S.CHINNATAMBY
DRAWN | DESSINÉ B.N.	XX | XX	PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED | VÉRIFIÉ S.S.	XX | XX	DES MGR | GEST CONC X.X
COORDINATION S.S.		FIRE | INCENDIE CAPT. CAMPBELL

WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

DWG. NO. | NO. DESSIN
L-T81-3019/2- 701

Canada

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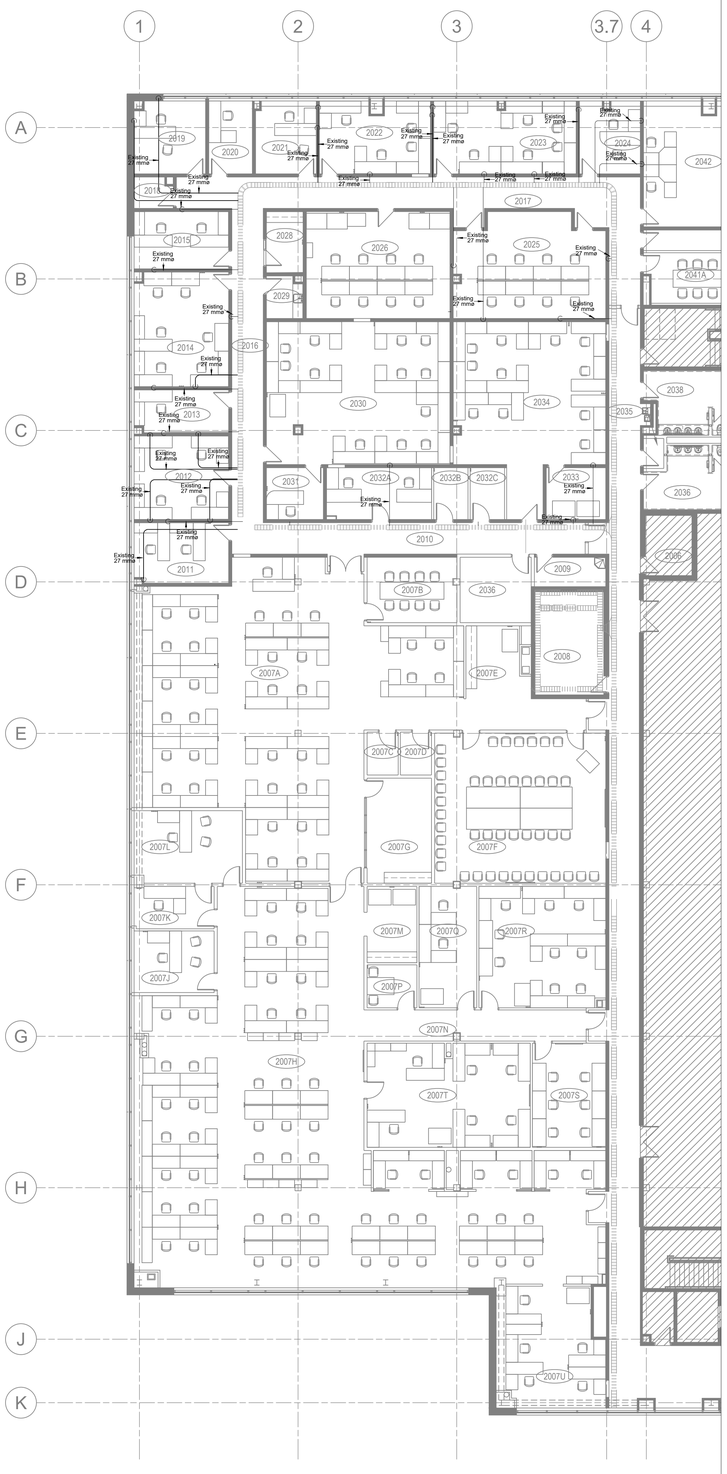
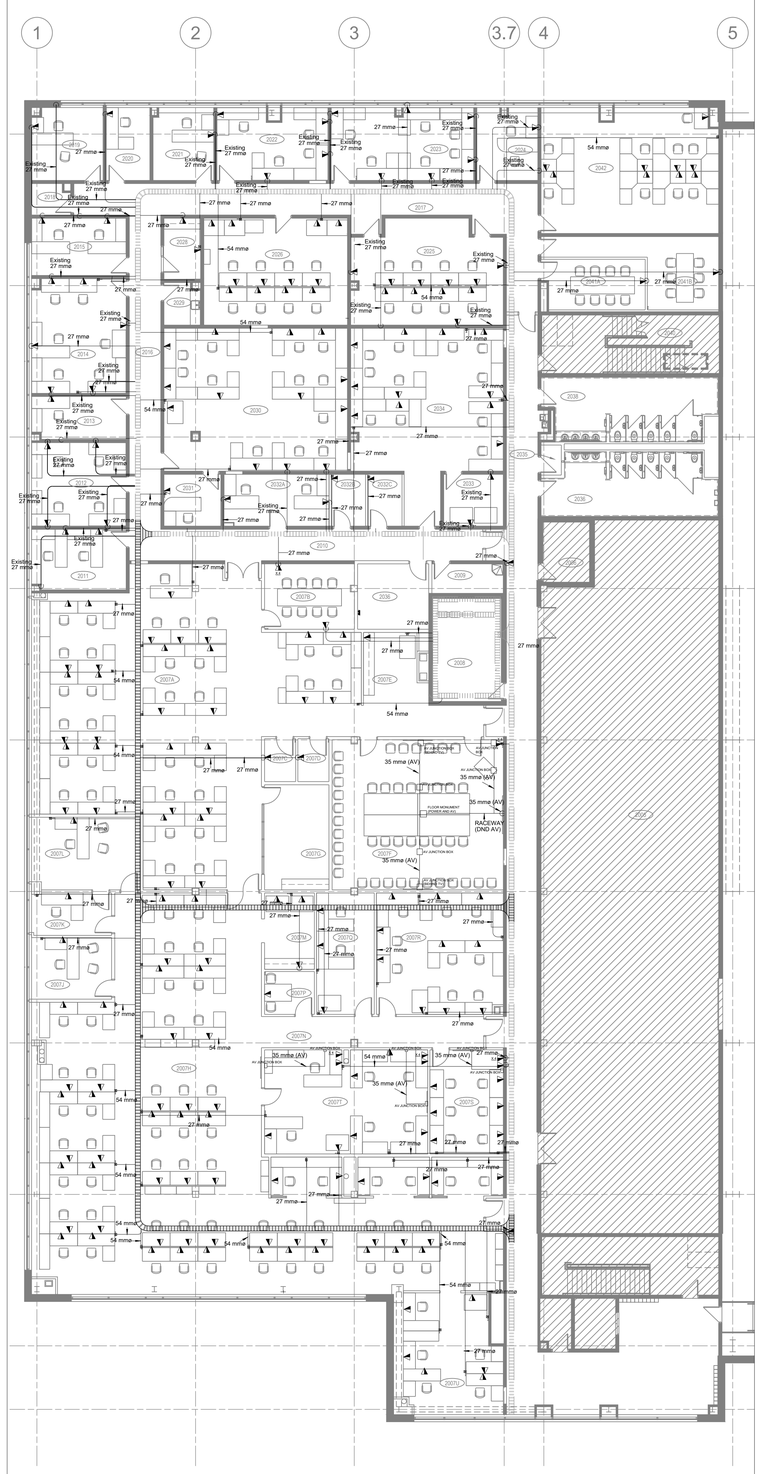
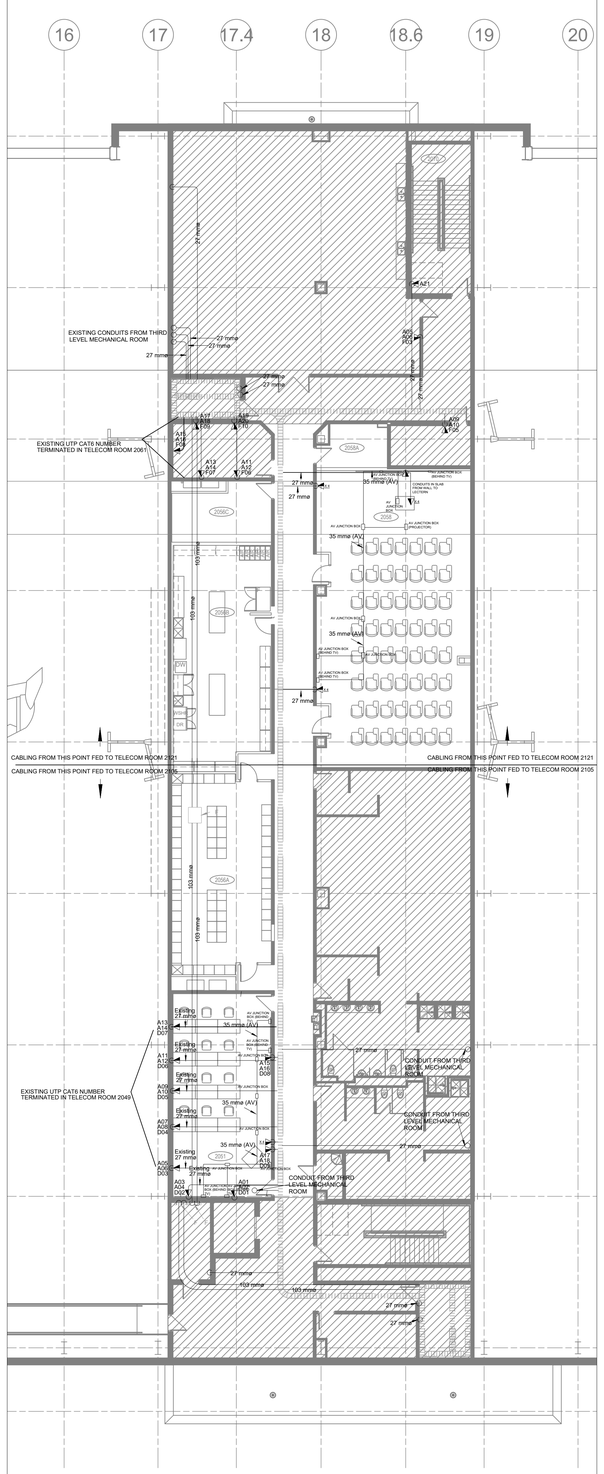


1 / 702 EXISTING CABLE TRAY - AREA A/B
SCALE: 1:150



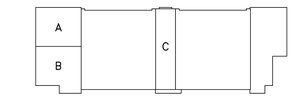
2 / 702 NEW CABLE TRAY AND CONDUIT REQUIREMENTS - AREA A/B
SCALE: 1:150



3 / 702 EXISTING CABLE TRAY REQUIREMENTS - AREA C
SCALE: 1:150

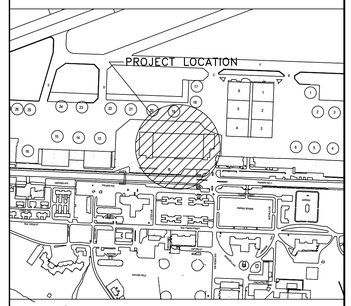
Government of Canada | Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

GENERAL NOTES

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8. PROVIDE PROTECTION TO ALL "EXISTING TO REMAIN" MATERIALS.
9. REPAIR, PATCH AND MAKE GOOD ALL EXISTING FINISHES AND SURFACES AFFECTED BY WORK.
10. MAKE ALL EXISTING SURFACES, IN AREA OF WORK, READY TO RECEIVE NEW FINISH.
11. ALL ACCESS HATCHES ARE TO BE PROVIDED BY THE MECHANICAL/ELECTRICAL CONTRACTOR TO SUIT. PROVIDE SIZE AND LOCATIONS TO CONSULTANTS FOR REVIEW AND COORDINATION, PRIOR TO INSTALLATION.
12. SECURITY EQUIPMENT REMOVAL AND REINSTATEMENT (BY OWNER). ACCESS AND LOCATIONS TO BE COORDINATED, PRIOR TO ENCLOSING CEILINGS/WALLS.
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1	2020/03/26	ISSUED FOR 60% SUBMISSION	B.N.

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

BICSI ISN NIVELD 2049899 EXPIRES 12-31-22 RCDD

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
TELECOMMUNICATIONS	2020/10/07

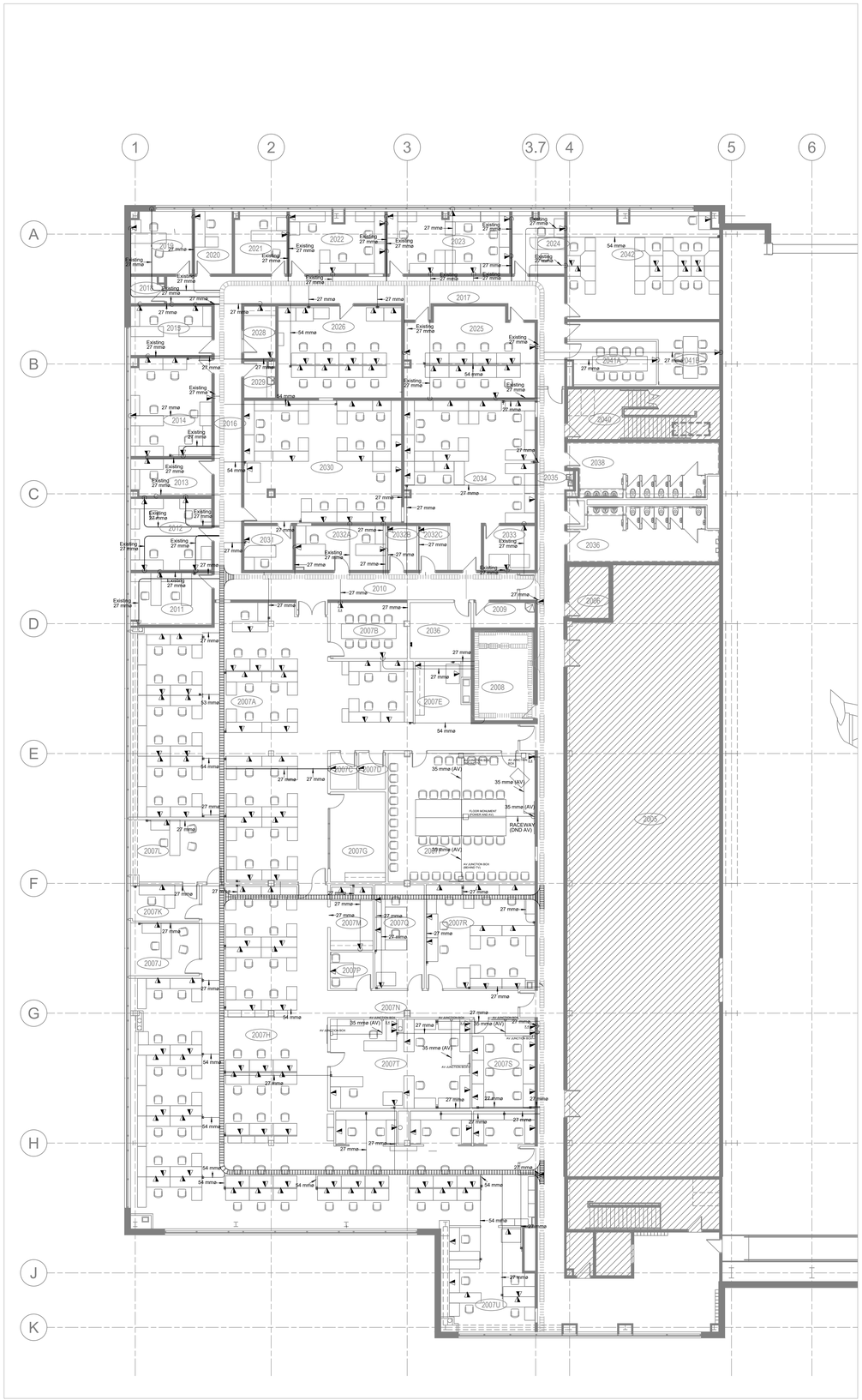
SUBJECT | SUJET
COMMUNICATIONS CABLE TRAY

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ B.N.	XX | XX	DES O | AGENT CONC S.CHINNATAMBY
DRAWN | DESSINÉ B.N.	XX | XX	PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED | VÉRIFIÉ S.S.	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION S.S.		FIRE | INCENDIE CAPT. CAMPBELL

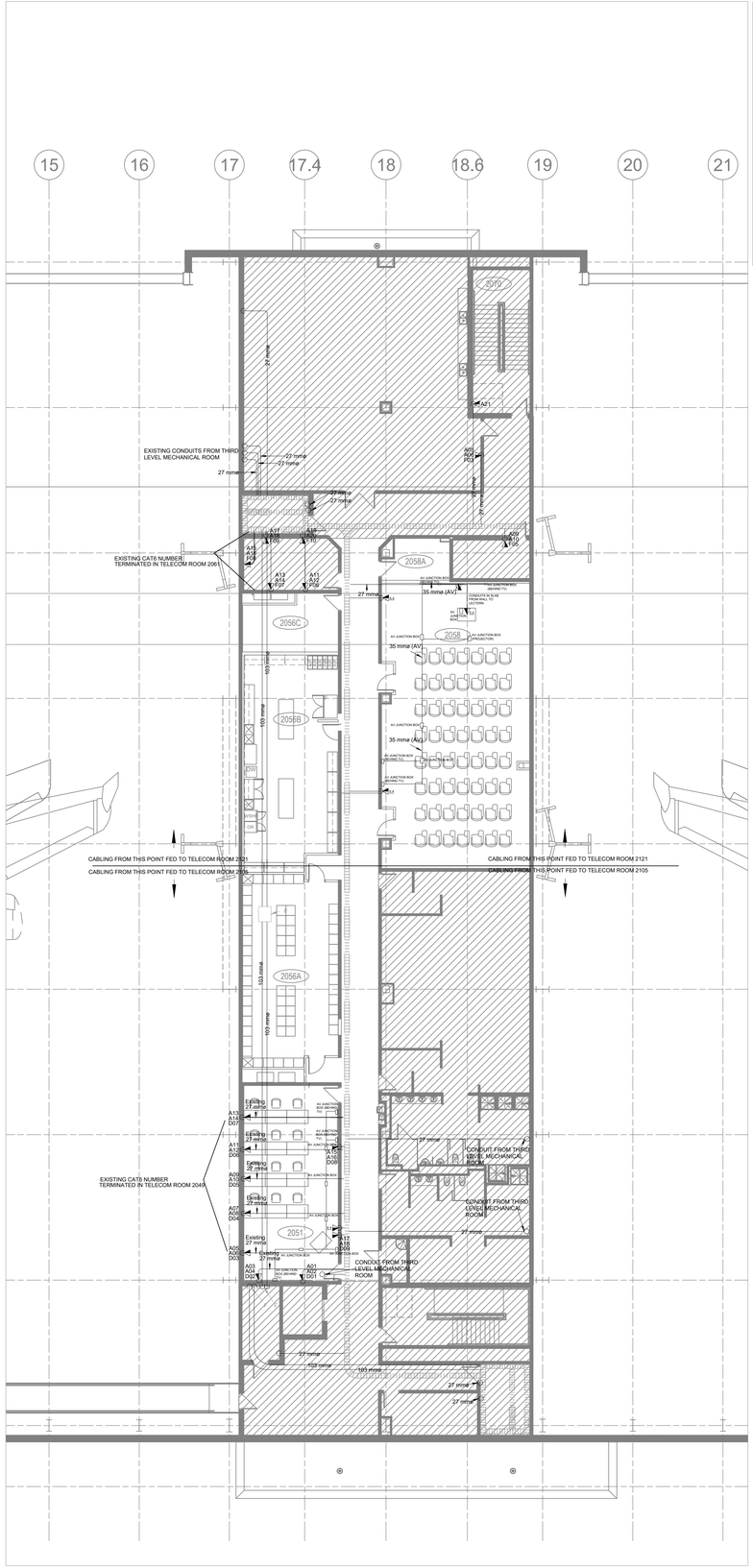
WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

DWG. NO. | NO. DESSIN
L-T81-3019/2- 702

Canada



1 / 703 NEW PATHWAYS AND LOCATIONS - AREA A/B
SCALE: 1:150



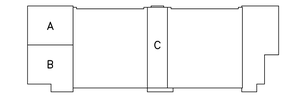
2 / 703 NEW PATHWAYS AND LOCATIONS - AREA C
SCALE: 1:150

LEGEND

- QUANTITY (2) UTP CATEGORY 6 CABLES
- (#) INDICATES THE QUANTITY OF UTP CATEGORY 6 CABLES AT LOCATION IF MORE THAN (2)
- EMT CONDUIT FROM TRAY TO WORKSTATION FOR CATEGORY 6 CABLES

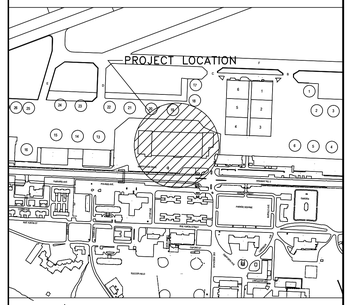
Government of Canada | Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

GENERAL NOTES

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2. CONTRACTOR IS RESPONSIBLE TO CHECK AND FIELD VERIFY ALL DIMENSIONS.
3. ALL ELECTRICAL WORK TO BE CARRIED OUT BY CERTIFIED ELECTRICIAN.
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8. PROVIDE PROTECTION TO ALL "EXISTING TO REMAIN" MATERIALS.
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REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
BEN NYVELD
BICSI ID# 204689
EXPIRES 12-31-22
2020-10-07
RCDD

NO.	DATE	REVISION	APPR.
4	2020/10/07	ISSUED FOR TENDER	B.N.
3	2020/08/19	ISSUED FOR 100% SUBMISSION	B.N.
2	2020/05/19	ISSUED FOR 90% SUBMISSION	B.N.
1	2020/03/26	ISSUED FOR 60% SUBMISSION	B.N.

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
TELECOMMUNICATIONS	2020/10/07

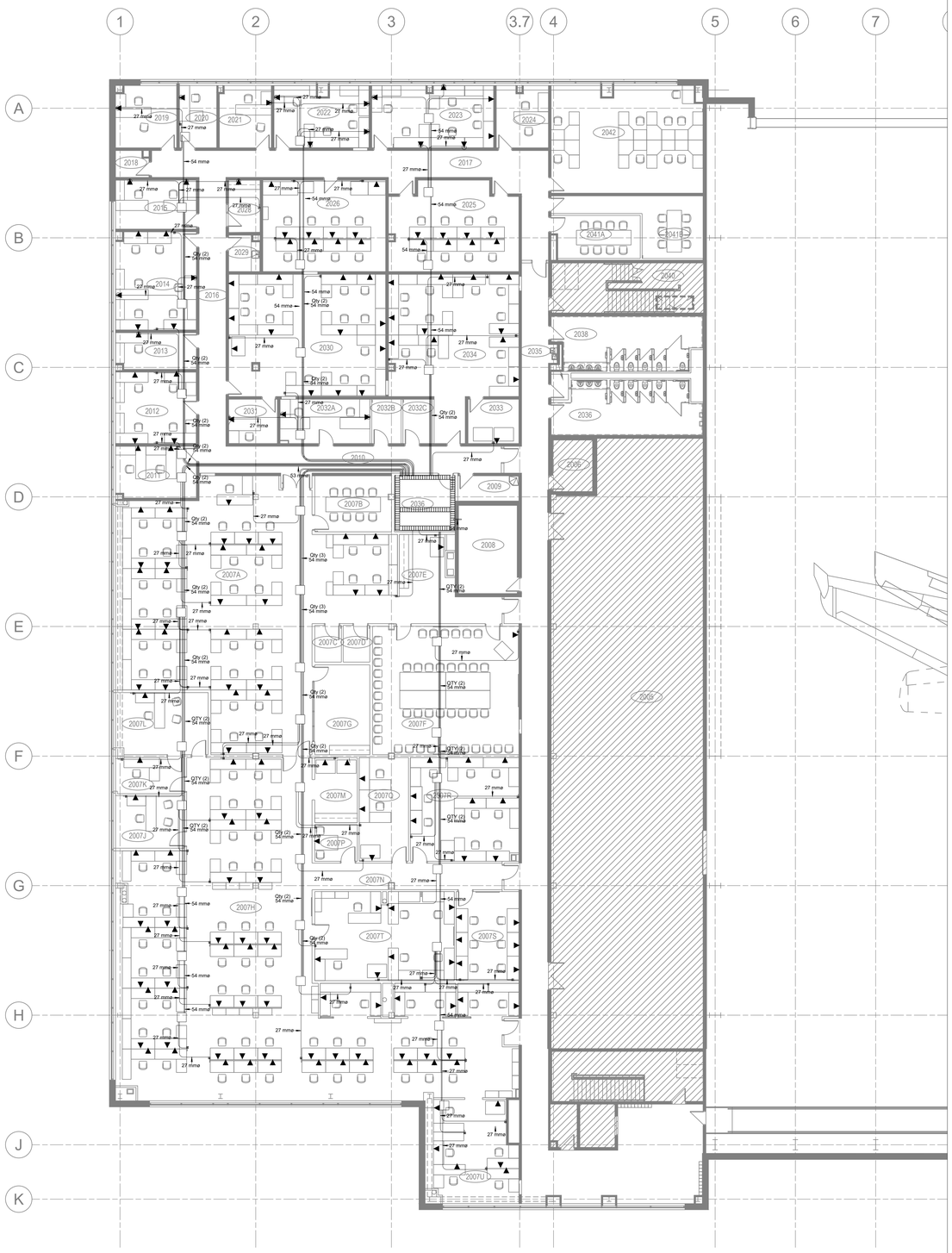
SUBJECT | SUJET
UTP CATEGORY 6 LOCATIONS AND CONDUIT PATHWAYS

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ B.N.	XX | XX	DES O | AGENT CONC S.CHINNATAMBY
DRAWN | DESSINÉ B.N.	XX | XX	PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED | VÉRIFIÉ S.S.	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION S.S.		FIRE | INCENDIE CAPT. CAMPBELL

WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

DWG. NO. | NO. DESSIN
L-T81-3019/2- 703

Canada



1 / 704 RDS DISTRIBUTION LAYOUT - AREA A/B
SCALE: 1:150

LEGEND

▲ QUANTITY (1) 4 STRAND OM3 MULTIMODE FIBRE

EMT CONDUIT FROM JUNCTION BOX TO WALL OUTLET FOR OM3 MULTIMODE FIBER

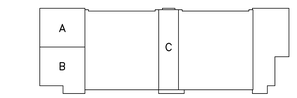
EMT CONDUIT FROM JUNCTION BOX TO WORKSTATION FURNITURE POLES FOR OM3 MULTIMODE FIBER

NOTE: ALL CONDUITS THAT ARE NOT CONNECTED TO FURNITURE POLES ARE TO BE SURFACE MOUNTED

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
BEN NYVELD
BICSI ID# 204689
EXPIRES 12-31-22
2020-10-07
RCDD

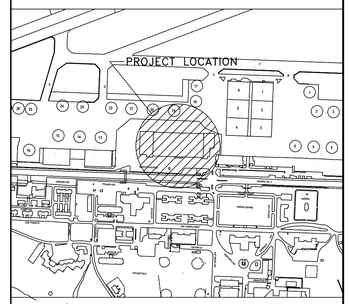
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

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SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
TELECOMMUNICATIONS	2020/10/07

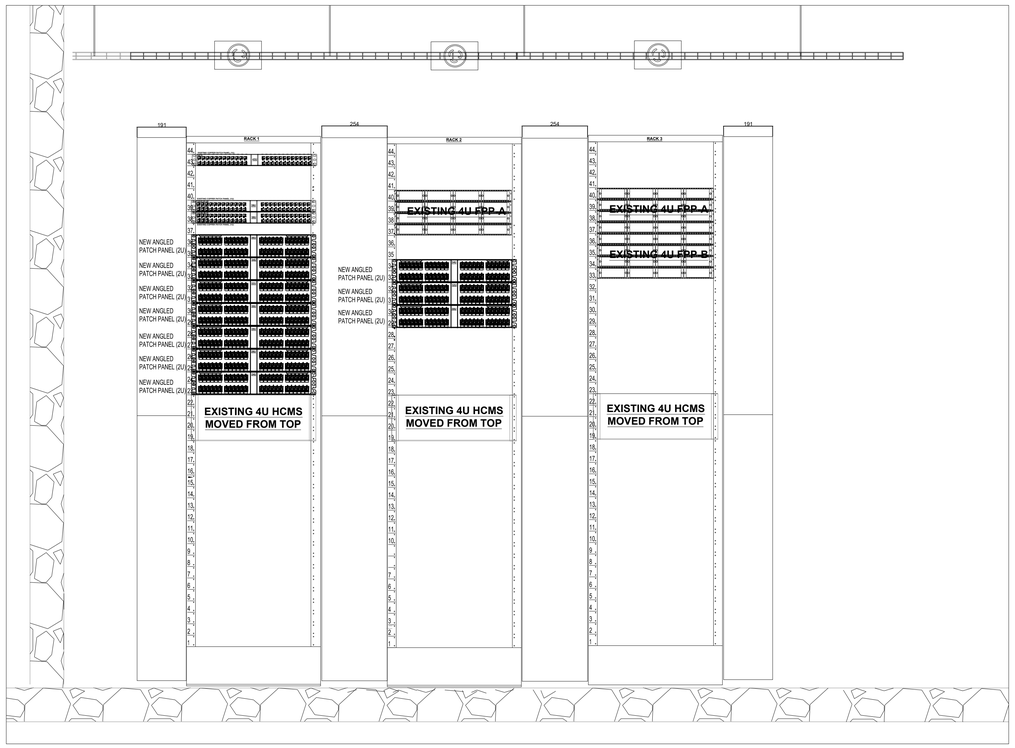
SUBJECT | SUJET
RDS DISTRIBUTION SYSTEM LOCATIONS AND CONDUIT PATHWAYS

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ B.N.	XX | XX	DES O | AGENT CONC S.CHINNATAMBY
DRAWN | DESSINÉ B.N.	XX | XX	PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED | VÉRIFIÉ S.S.	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION S.S.		FIRE | INCENDIE CAPT. CAMPBELL

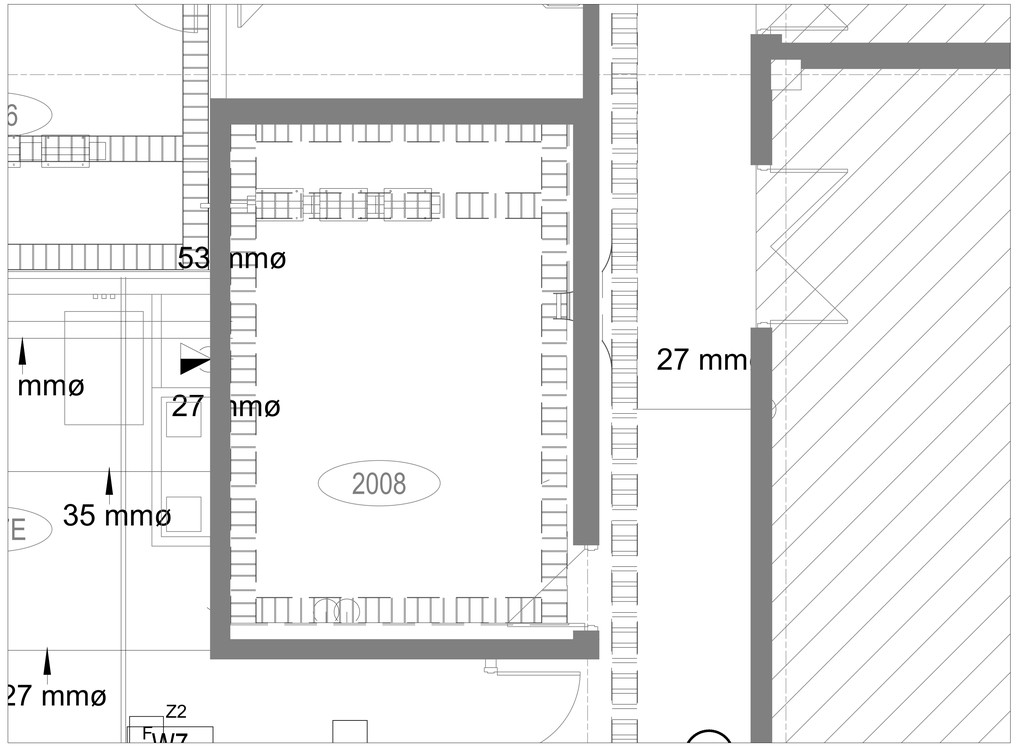
WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

DWG. NO. | NO. DESSIN
L-T81-3019/2-704

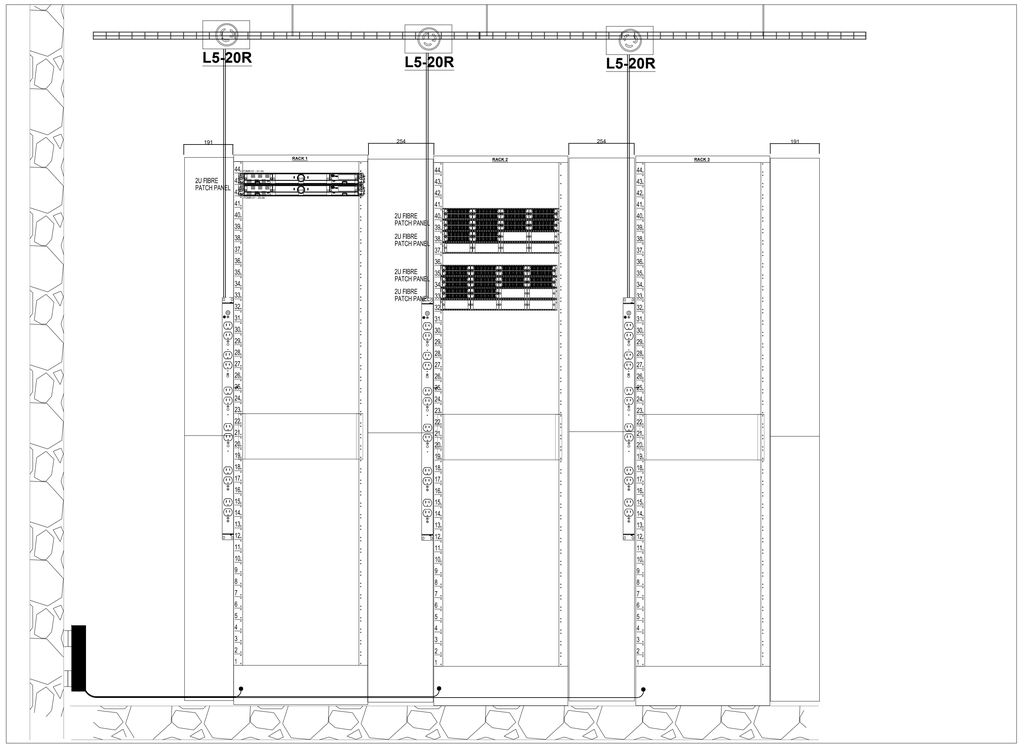
Canada



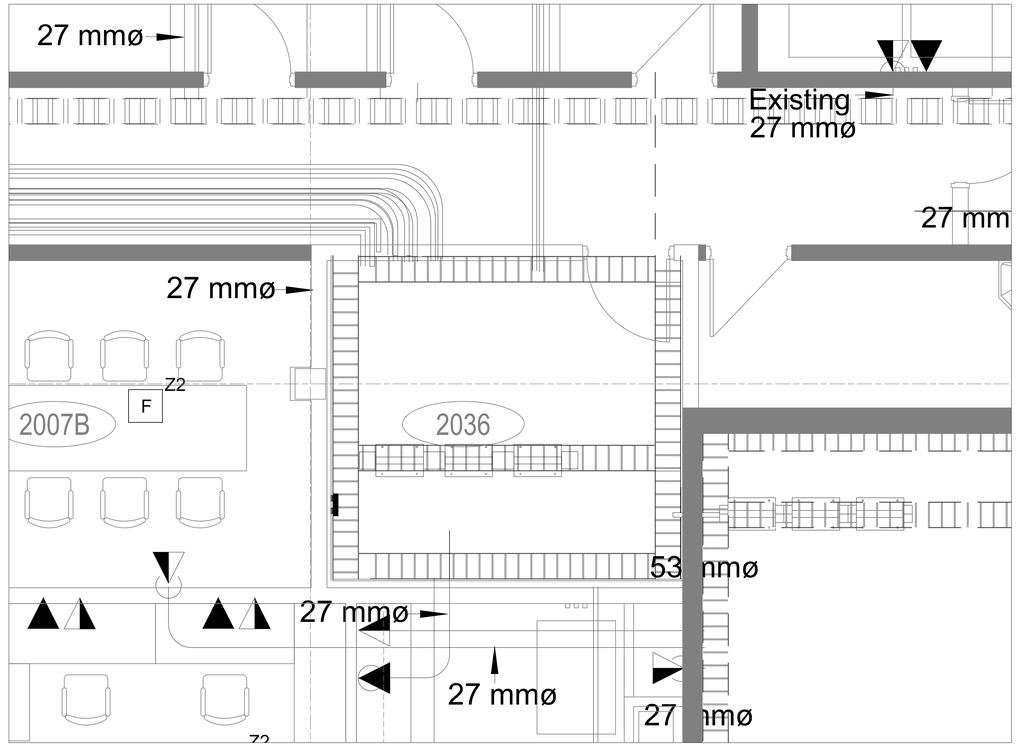
1 / 705 TELECOM ROOM 2008 RACK LAYOUT
SCALE: 1:10



2 / 705 TELECOM ROOM 2008 LAYOUT
SCALE: 1:30



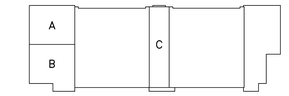
3 / 705 TELECOM ROOM 2036 RACK LAYOUT
SCALE: 1:10



4 / 705 TELECOM ROOM 2036 LAYOUT
SCALE: 1:30

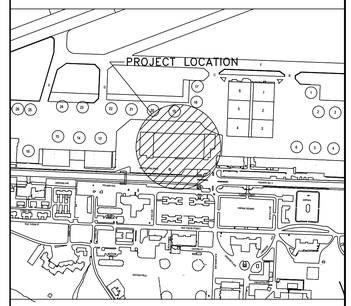
Government of Canada | Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

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SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

Bicsi — Ben Nyveld — BICSI ID# 204650 — EXPIRES 12-31-22 — RCDD

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
TELECOMMUNICATIONS	2020/10/07

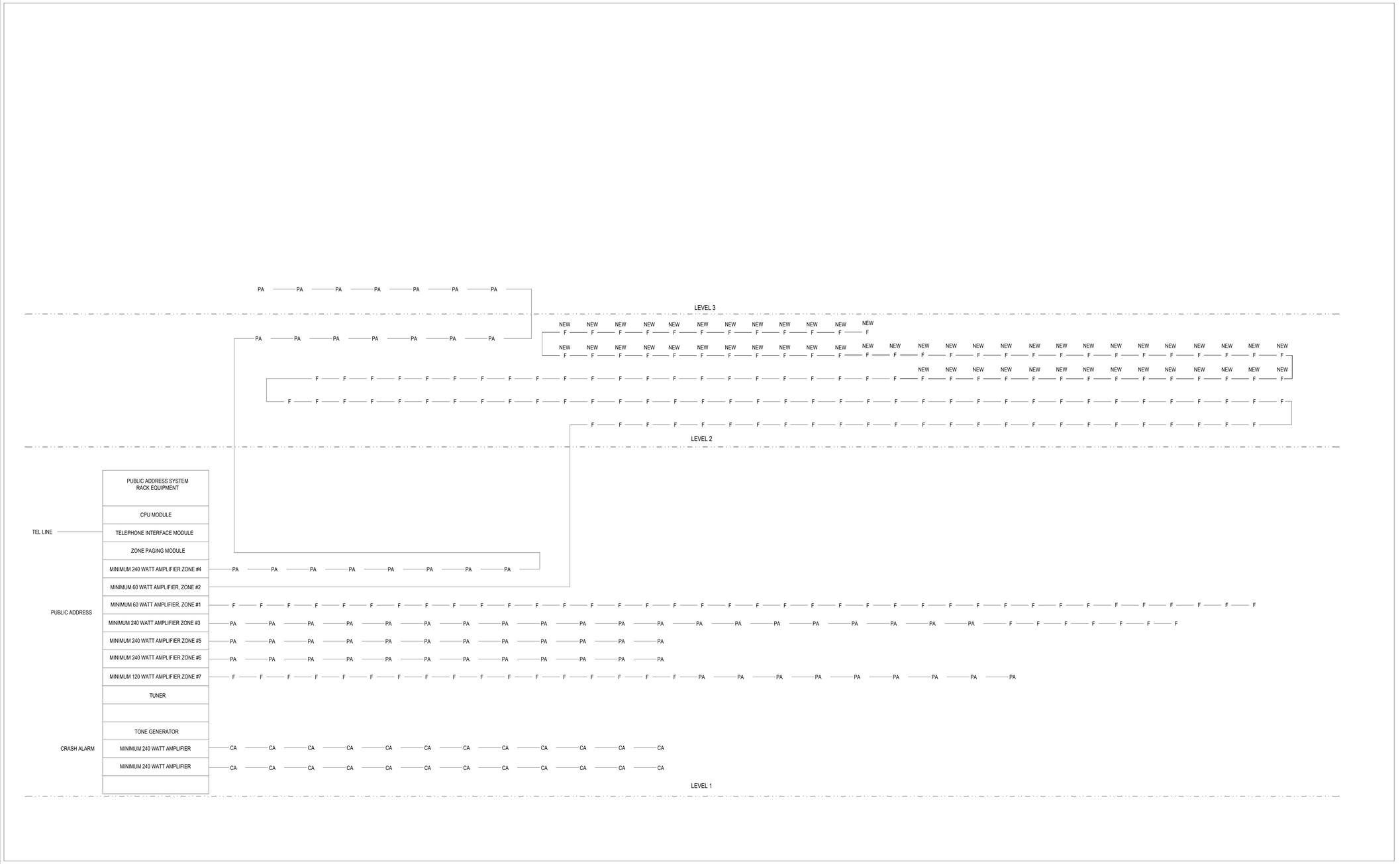
SUBJECT | SUJET
TELECOM ROOM RACK LAYOUTS

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ B.N.	XX | XX	DES O | AGENT CONC S.CHINNATAMBY
DRAWN | DESSINÉ B.N.	XX | XX	PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED | VÉRIFIÉ S.S.	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION S.S.		FIRE | INCENDIE CAPT. CAMPBELL

WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

DWG. NO. | NO. DESSIN
L-T81-3019/2-705

Canada



1
706

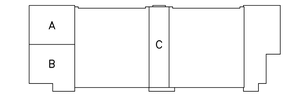
RISER DIAGRAM - PUBLIC ADDRESS SYSTEM

SCALE: N.T.S.

REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
Bicsi
BEN NYVELD
BICSI ID# 204689
EXPIRES 12-31-22
2020-10-07
RCDD

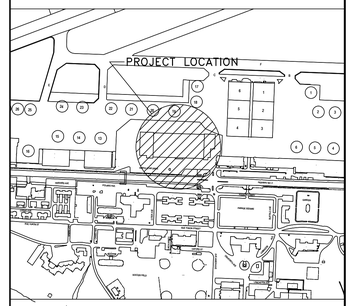
Government of Canada | Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

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SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
TELECOMMUNICATIONS	2020/10/07

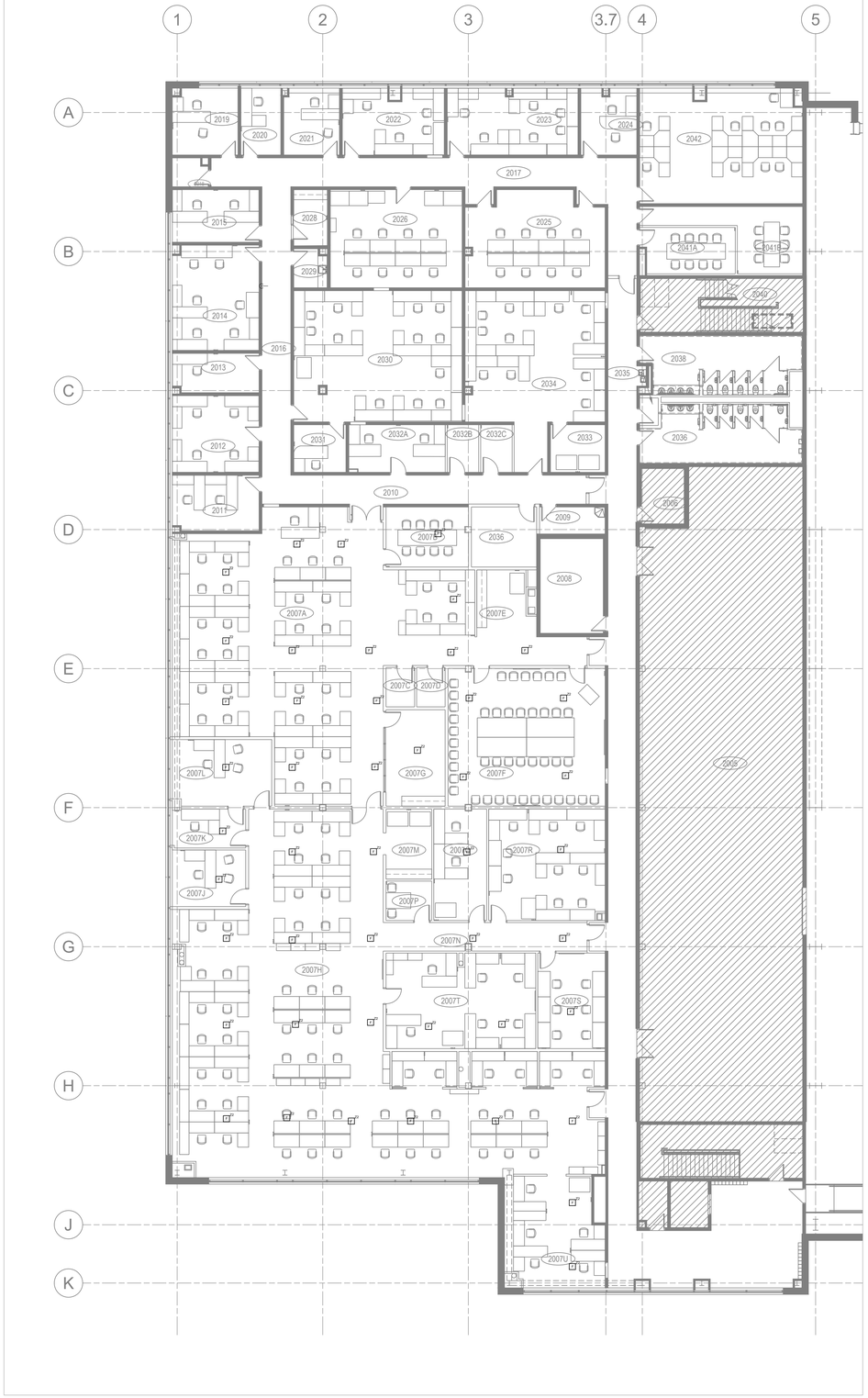
SUBJECT | SUJET
RISER DIAGRAM - PUBLIC ADDRESS SYSTEM

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ B.N.	XX | XX	DES O | AGENT CONC S.CHINNATAMBY
DRAWN | DESSINÉ B.N.	XX | XX	PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED | VÉRIFIÉ S.S.	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION S.S.		FIRE | INCENDIE CAPT. CAMPBELL

WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

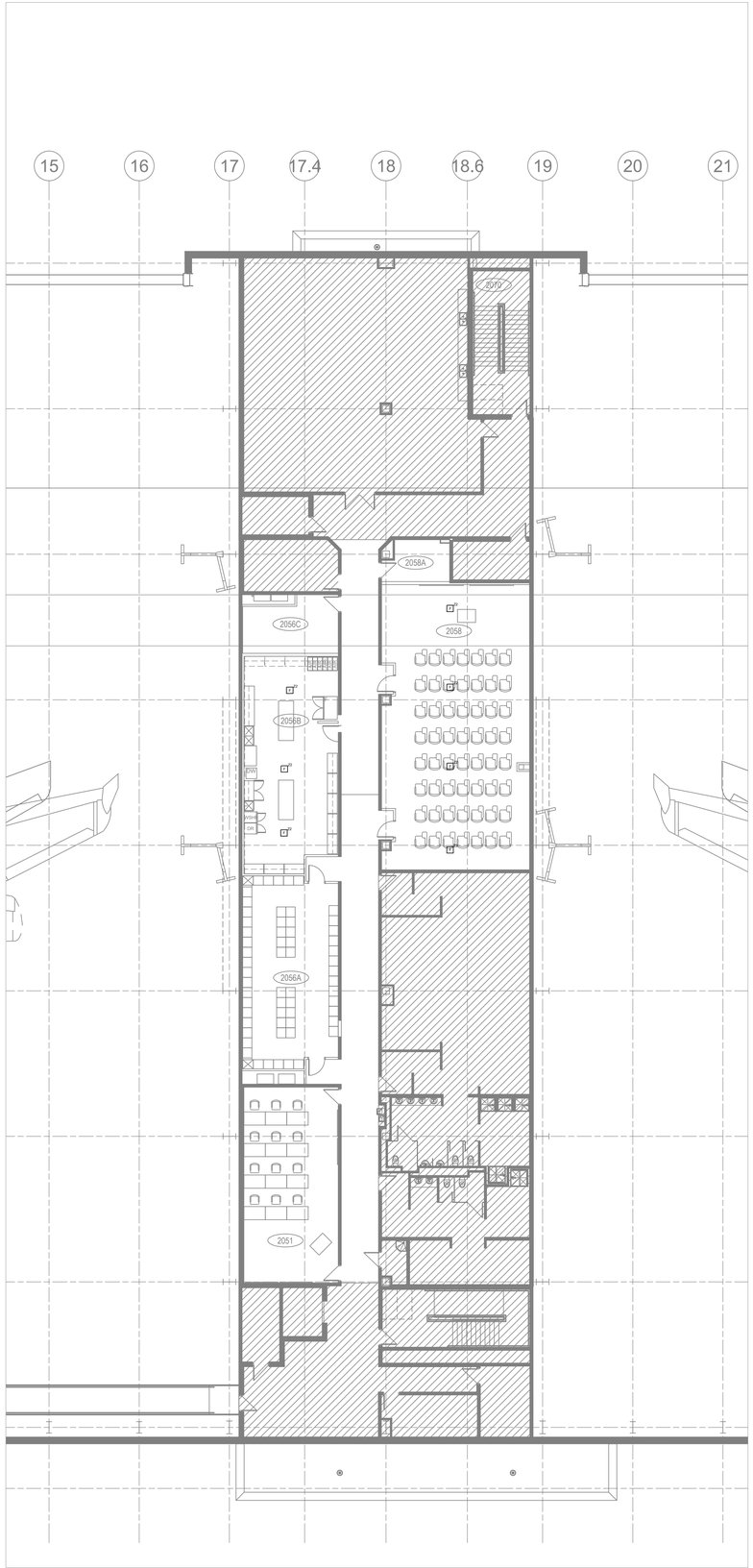
DWG. NO. | NO. DESSIN
L-T81-3019/2-706

Canada



1 707 PUBLIC ADDRESS SYSTEM LAYOUT - NEW - AREA A/B

SCALE: 1:150

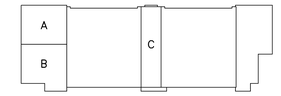


2 707 PUBLIC ADDRESS SYSTEM LAYOUT - NEW - AREA C

SCALE: 1:150

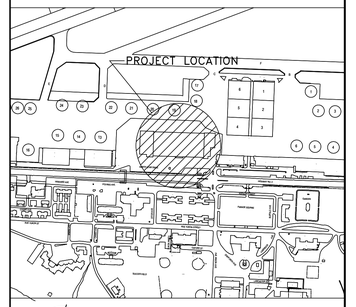
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



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2	2020/05/19	ISSUED FOR 90% SUBMISSION	B.N.
1	2020/03/26	ISSUED FOR 60% SUBMISSION	B.N.

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
TELECOMMUNICATIONS	2020/10/07

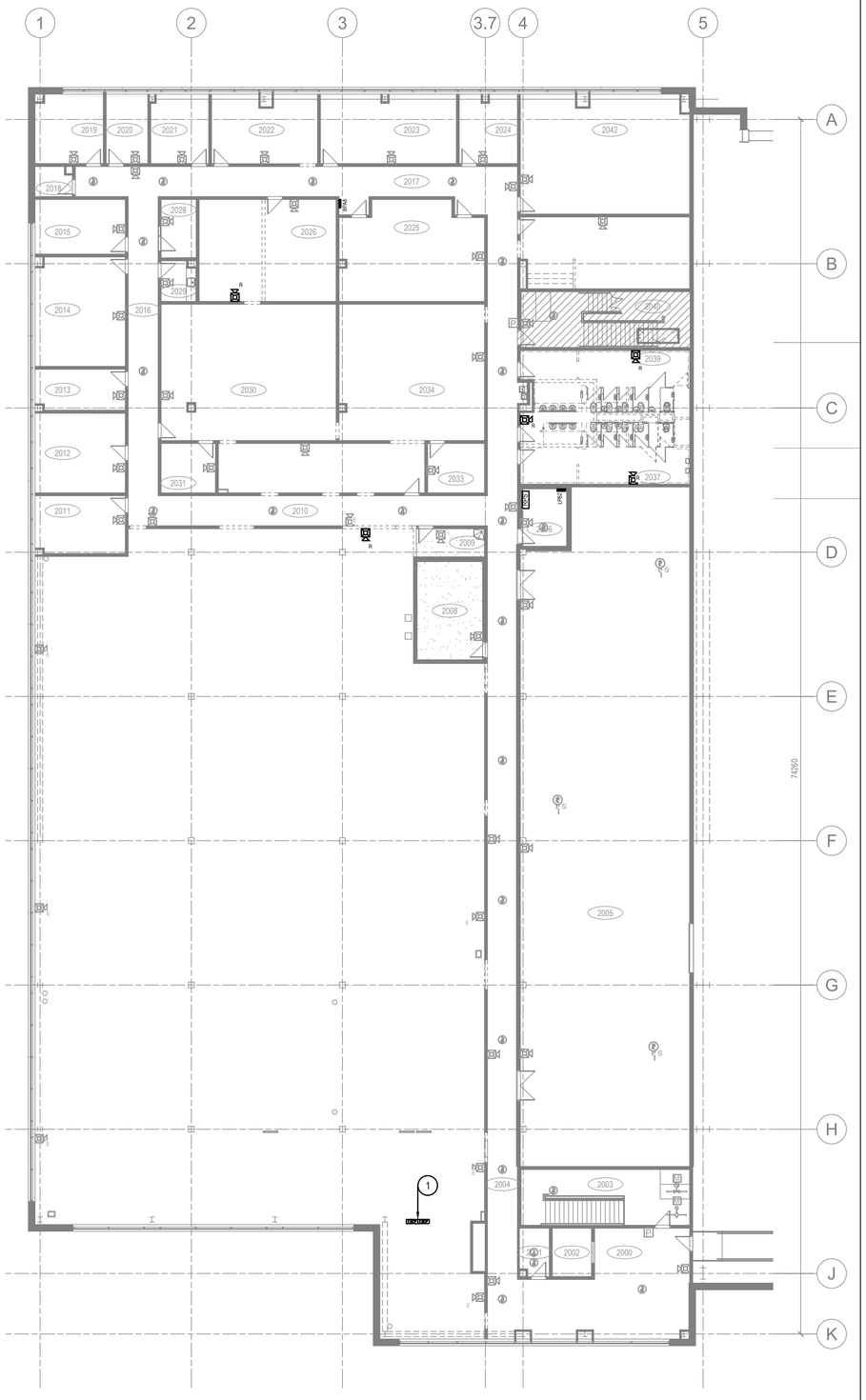
SUBJECT | SUJET
PUBLIC ADDRESS SYSTEM

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ	XX | XX	DES O | AGENT CONC S.CHINNATAMBY
DRAWN | DESSINÉ	XX | XX	PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED | VÉRIFIÉ S.S.	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION S.S.		FIRE | INCENDIE CAPT. CAMPBELL

WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

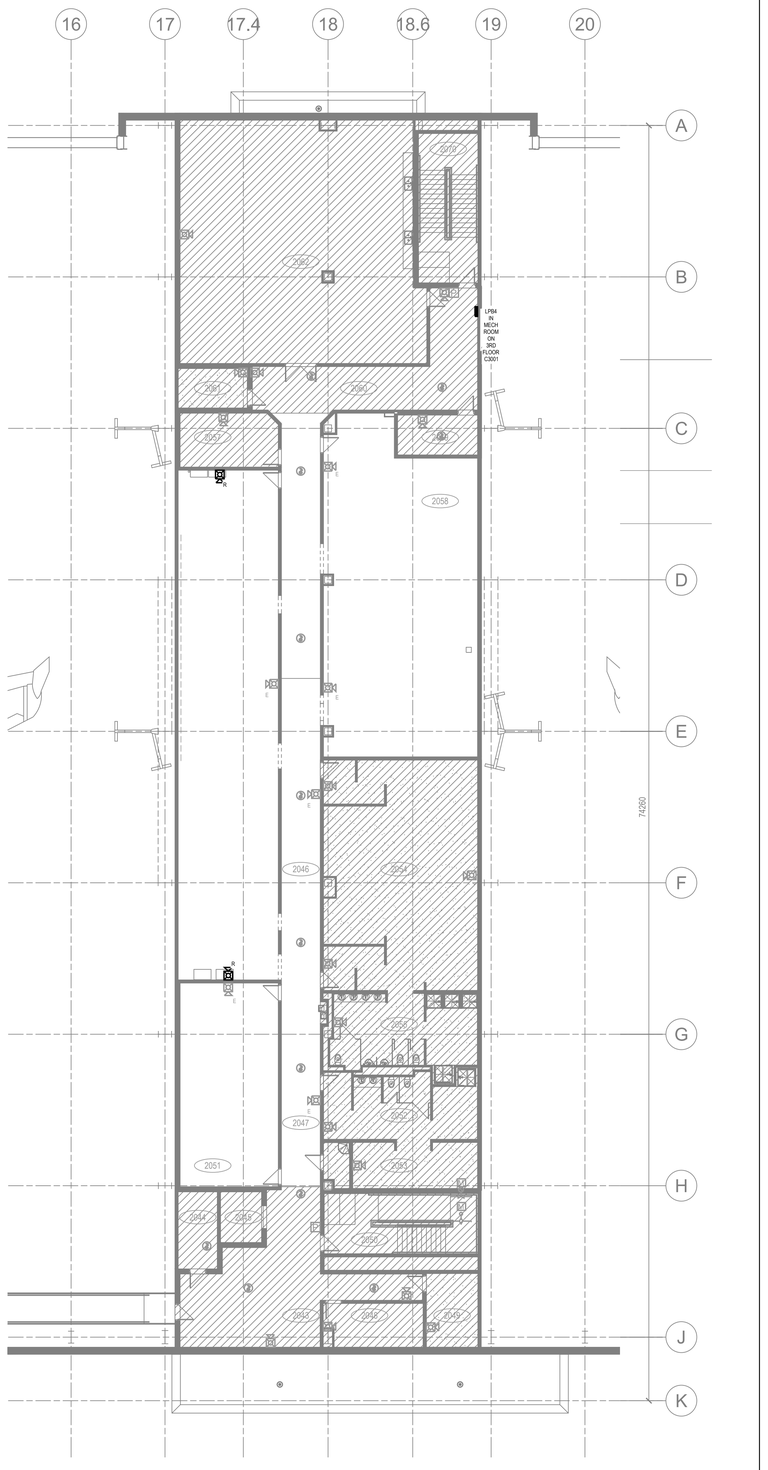
DWG. NO. | NO. DESSIN
L-T81-3019/2- 707

Canada



1 801 AREA A/B SECOND LEVEL - FIRE ALARM DEMOLITION

SCALE: 1:150



2 801 AREA C SECOND LEVEL - FIRE ALARM DEMOLITION

SCALE: 1:150

DRAWINGS NOTES

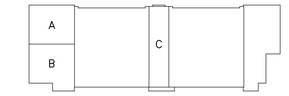
1. APPROXIMATE LOCATION OF FIRE ALARM CONTROL PANEL IN THE FIRE PUMP ROOM ON THE GROUND FLOOR.

GENERAL NOTE

1. ALL ELECTRICAL EQUIPMENT LOCATIONS ON ELECTRICAL DRAWINGS ARE TO BE CONSIDERED APPROXIMATE. ANY DEVIATION OF LOCATIONS OF ELECTRICAL EQUIPMENT SHALL BE MARKED-UP ACCORDINGLY FOR ACCURATE REPRESENTATION ON AS-BUILT PLANS.
2. ARCHITECTURAL BACKGROUNDS IN ELECTRICAL DRAWINGS ARE REPRESENTATIVE ONLY. ALTHOUGH EVERY EFFORT HAS BEEN MADE TO ENSURE THE ACCURACY OF THESE BACKGROUNDS, ACTUAL SITE CONDITIONS AND LATEST ARCHITECTURAL DOCUMENTS MAY VARY FROM ELECTRICAL DRAWINGS. CONTRACTOR SHALL VERIFY EXACT ARCHITECTURAL LAYOUT ON SITE PRIOR TO CONSTRUCTION.

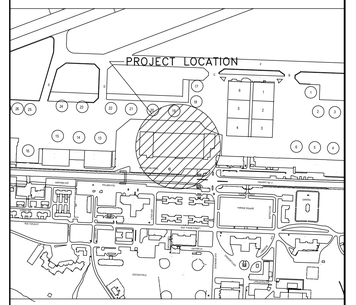
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N. T. S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N. T. S.

LICENSED PROFESSIONAL ENGINEER
2025 03 28
M. J. J. TESSIER
100100033
PROVINCE OF ONTARIO

NO.	DATE	REVISION	APPR.
6	2025/03/28	ISSUED FOR TENDER	M.T.
5	2025/02/24	ISSUED FOR TENDER	M.T.
4	2020/10/07	ISSUED FOR TENDER	P.H.
3	2020/08/19	ISSUED FOR 100% SUBMISSION	P.H.
2	2020/05/19	ISSUED FOR 90%	P.H.

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

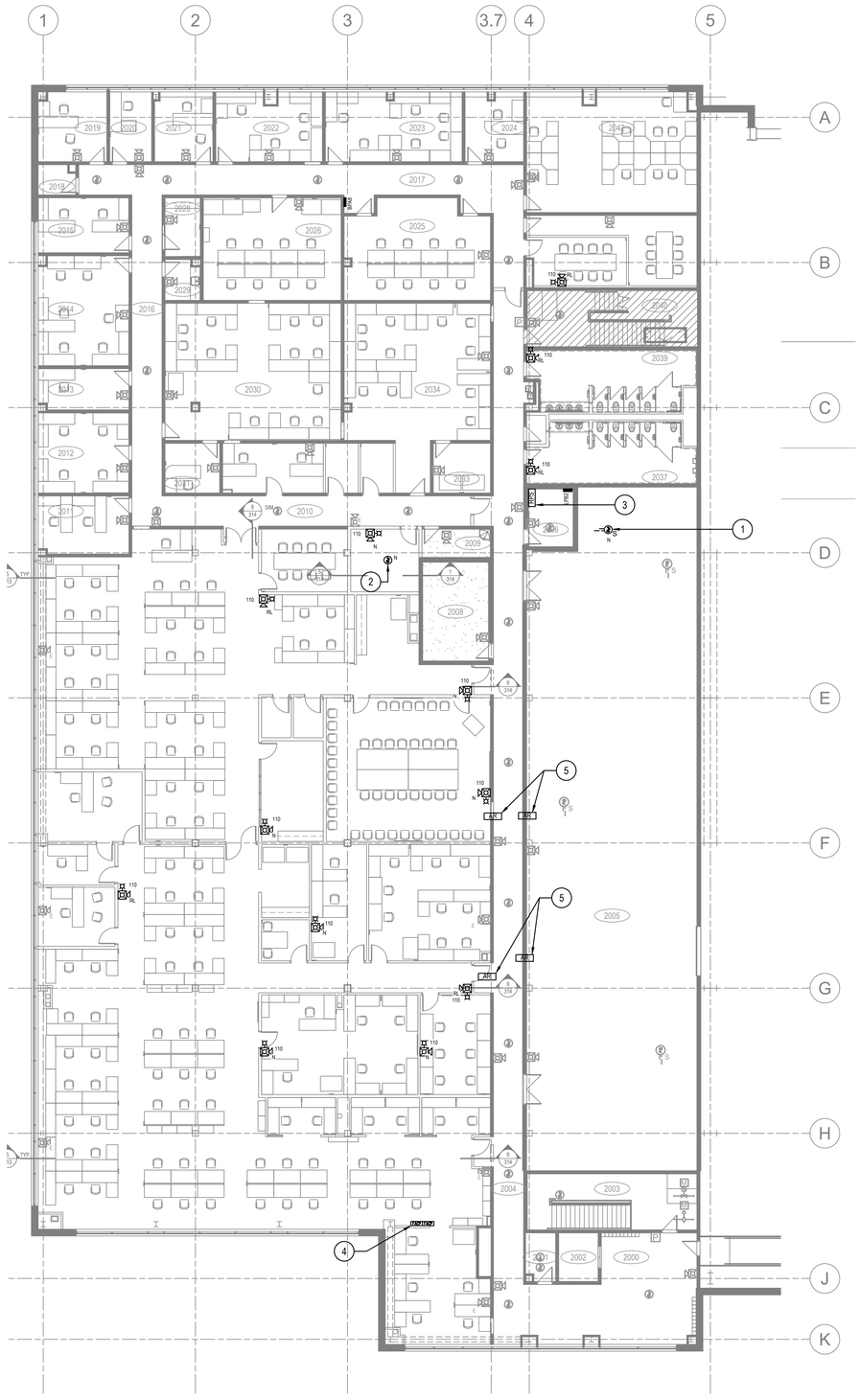
TRADE | MÉTIER: ELECTRICAL
DATE: 2020/01/08

SUBJECT | SUJET
FIRE ALARM DEMOLITION PLAN

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ P.H.	XX | XX	DES O | AGENT CONC S.CHINNATAMBY
DRAWN | DESSINÉ P.H.	XX | XX	PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED | VÉRIFIÉ S.L.	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION		FIRE | INCENDIE CAPT. CAMPBELL

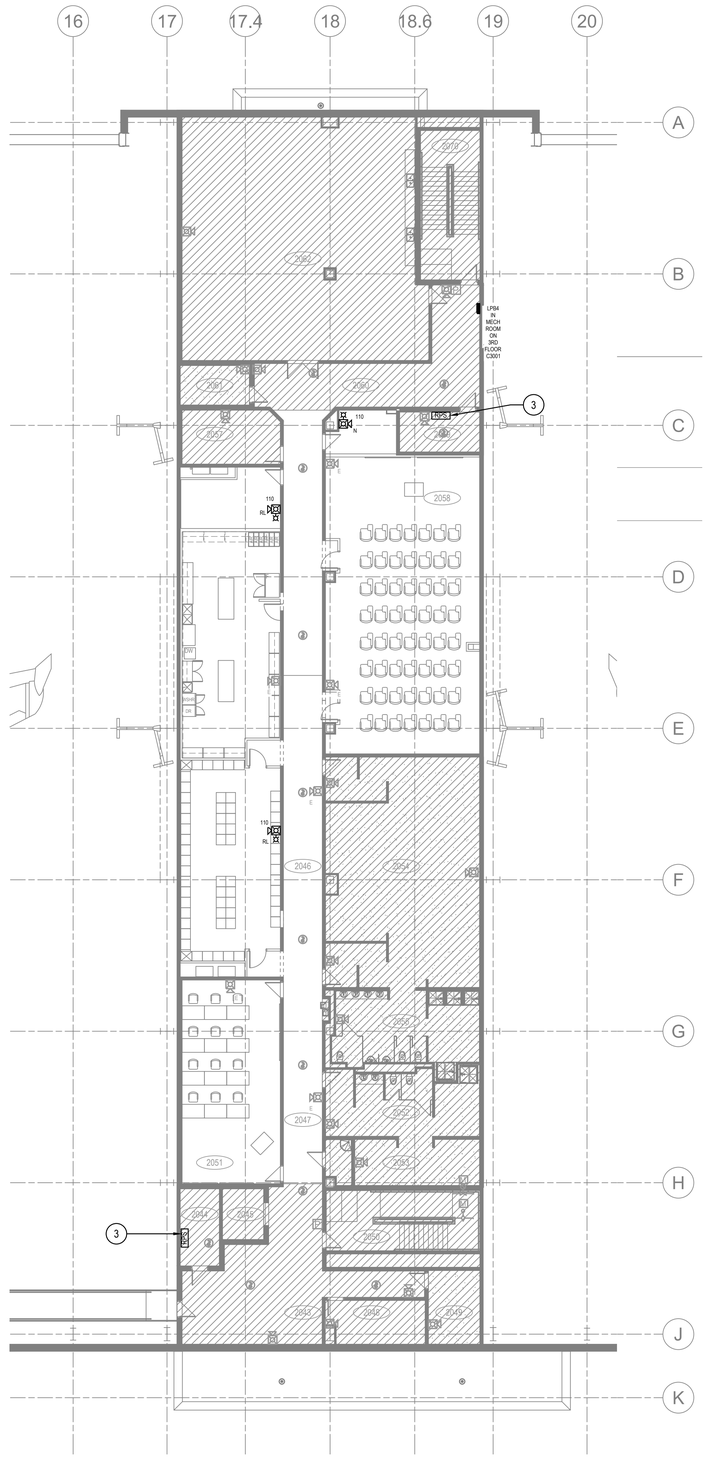
WBS NO. | NO. OTP: N.001755.03
PF NO. | NO. DP: PF 500006755
DWG. NO. | NO. DESSIN: L-T81-3019/2-801

Canada



1 802 AREA A/B SECOND LEVEL - FIRE ALARM CONSTRUCTION

SCALE: 1:150



2 802 AREA C SECOND LEVEL - FIRE ALARM CONSTRUCTION

SCALE: 1:150

DRAWINGS NOTES

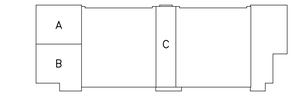
1. PROVIDE NEW DUCT SMOKE DETECTOR ON SUPPLY SIDE OF NEW AHU. WHEN ACTIVATED AHU-11 SHUTS DOWN.
2. PROVIDE NEW SMOKE DETECTOR IN IT ROOM.
3. EXISTING LOCATION OF FIRE ALARM ZONE PANELS. EXSISTING AND NEW DEVICES ARECONNECTED HERE. LOCATIN OF MAIN FIRE ALRM CONTROL PANEL IN THE FIRE PUMP ROOM ON THE GROUND FLOOR.
4. LOCATION OF MAIN FIRE ALARM PANEL IN THE FIRE PUMP ROOM ON THE GROUND FLOOR.
5. PROVIDE NEW ALARM RELAYS AND CONNECTIONS FOR NEW FIRE/SMOKE DAMPER.

GENERAL NOTE

1. ALL FIRE ALARM DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH CAN/ULC-S524.
2. EXISTING FIRE ALARM WIRING IS TO BE RE-USED FOR NEW DEVICES.
3. WIRE SIZING FOR DETECTION DEVICES TO MEET THE REQUIREMENTS DEFINED IN THE PROJECT'S SPECIFICATIONS AND THE REQUIREMENTS OF THE CANADIAN ELECTRICAL CODE (CEC).
4. WIRE SIZING FOR DETECTION DEVICES TO MEET THE REQUIREMENTS DEFINED IN THE PROJECT'S SPECIFICATIONS AND THE REQUIREMENTS OF THE CANADIAN ELECTRICAL CODE (CEC).
5. REQUIRED NUMBER OF WIRES TO BE DETERMINED BASED ON REQUIREMENTS DEFINED BY THE PROJECT'S SPECIFICATIONS.
6. CLASS A CONFIGURATION TO BE IMPLEMENTED FOR BOTH THE DETECTION CIRCUIT AND THE NOTIFICATION CIRCUIT.
7. CLASS A CONFIGURATION IS IMPLEMENTED SUCH THAT THE PRIMARY WIRING CIRCUIT AND THE ALTERNATE WIRING CIRCUIT TO BE INSTALLED IN SEPARATE RACEWAYS OR CABLE ASSEMBLIES HAVING A MINIMUM SEPARATION OF 300MM WHERE THE CABLES ARE INSTALLED VERTICALLY AND 1200MM WHERE THE CABLES ARE INSTALLED HORIZONTALLY, EXCEPT UNDER CERTAIN CONDITIONS STATED IN CAN/ULC S524: INSTALLATION OF FIRE ALARM SYSTEMS, SECTION 4.3.1.9.
8. WHERE THE CEILING IS BUILT USING ACOUSTIC CEILING TILES, NEW CONDUIT TO BE ROUTED IN THE CEILING SPACE IN A SURFACE-MOUNT MANNER, CONCEALED FROM VIEW .
9. CONDUIT CAN BE ROUTED SURFACE-MOUNT ALONG THE WALLS WHEN CONNECTING TO A WALL-MOUNT FIRE ALARM DEVICE.
10. WHERE THERE IS EXPOSED CEILING, NEW CONDUIT TO BE ROUTED IN A SURFACE-MOUNT MANNER.
11. CONDUIT AND WIRING ASSOCIATED WITH DEVICES TO BE REMOVED, TO BE REMOVED TO THE SOURCE OR TO CONNECTING JUNCTION BOX FOR PROPER TERMINATION.
12. EXISTING CONDUIT NOT MEETING THE MINIMUM SIZE REQUIREMENT OF 21MM CANNOT BE REUSED AND MUST BE REPLACED WITH NEW CONDUIT.
13. WHERE DEVICES ARE REMOVED FROM FINISHED GYPSUM BOARD CEILING, JUNCTION BOX IS TO BE CAPPED WITH PROPER COVER PLATE.
14. WHERE DEVICES ARE REMOVED FROM CEILING BUILT WITH ACOUSTIC CEILING TILES, JUNCTION BOX IS TO BE REMOVED AND CEILING TILE IS TO BE REPLACED.
15. EXISTING AND NEW CONDUIT FOR FIRE ALARM SYSTEM IS TO BE RED FOR ITS ENTIRE LENGTH.

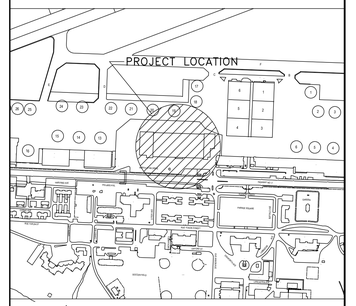
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N. T. S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N. T. S.

LICENSED PROFESSIONAL ENGINEER
2025 03 28
M. J. J. TESSIER
100100033
PROVINCE OF ONTARIO

NO.	DATE	REVISION	APPR.
6	2025/03/28	ISSUED FOR TENDER	M.T.
5	2025/02/24	ISSUED FOR TENDER	M.T.
4	2020/10/07	ISSUED FOR TENDER	P.H.
3	2020/08/19	ISSUED FOR 100% SUBMISSION	P.H.
2	2020/05/19	ISSUED FOR 90%	P.H.

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER: ELECTRICAL
DATE: 2020/01/08

SUBJECT | SUJET
FIRE ALARM CONSTRUCTION PLAN

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ P.H.	XX | XX	DES O | AGENT CONC S.CHINNATAMBY
DRAWN | DESSINÉ P.H.	XX | XX	PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED | VÉRIFIÉ S.L.	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION		FIRE | INCENDIE CAPT. CAMPBELL

WBS NO. | NO. OTP: N.001755.03
PF NO. | NO. DP: PF 500006755
DWG. NO. | NO. DESSIN: L-T81-3019/2-802

Canada

LEGEND

IAP	INTRUSION ALARM PANEL
I/O	I/O EXPANSION MODULE (ZONE EXPANDER)
KP	KEYPAD
MD	CEILING MOTION SENSOR
	INTRUSION SURFACE MOUNTED DOOR CONTACTS
	INTRUSION STATUS LED LIGHT (TYPICAL)
A	12 VOLT DIRECT CONNECT
TS	PULL BOX TAMPER SWITCH
IP	ACCESS CONTROL DOOR CONTROLLER NETWORK DROP REQUIRED
CRK	CARD READER WITH INTEGRATED KEYPAD

GENERAL NOTES

1. DRAWINGS ARE FOR DIAGRAMMATIC PURPOSES ONLY.
2. DO NOT SCALE TO THESE DRAWING.REFER TO ARCHITECTURAL SET FOR SCALING.
3. INTRUSION ALARM SYSTEM RECEPTACLE BACK BOXES AND JUNCTION BOXES ARE TO HAVE NO PRE-PUNCHED KNOCKOUTS.
4. ALL INTRUSION ALARM ENCLOSURES CONTAINING ELECTRONIC COMPONENTS SHALL BE EQUIPPED WITH A TAMPER SWITCH. THIS INCLUDES ALL RECEPTACLES BACK BOXES FOR MOTION AND DOOR CONTACTS, POWER SUPPLIES, PANEL ENCLOSURES AND JUNCTION BOXES. ALL TAMPERS ARE TO BE CONNECTED TO AN ACTIVE INTRUSION ALARM PANEL.
5. 1 GANG AND BACK BOXES USED FOR THE MOUNTING OF CARD READERS, MOTION SENSORS, CAMERAS, DOOR CONTACTS, AND INTERCOMS. BACK BOXES SHALL NOT HAVE PRE PUNCHED KNOCKOUTS.
6. 2 GANG BACK BOXES USED FOR THE MOUNTING OF INTRUSION ALARM KEYPADS. BACK BOXES SHALL NOT HAVE PRE PUNCHED KNOCKOUTS
7. PULL BOXES ARE NOT TO BE USED IN LIEU OF TURNS. CONDUITS MUST BE INSTALLED IN LINE FROM ONE ANOTHER.
8. PULL BOXES MUST BE LOCATED IN A WAY TO AVOID FEEDBACK INSTALLATION.
9. ALL PULL BOXES ARE TO BE 300 X 300mm UNLESS OTHERWISE INDICATED.

INTRUSION ALARM SYSTEM (IAS) ELEVATION NOTES

1. GUIDELINES FOR LOCATING THE DOOR CONTROLLER JUNCTION BOX
   a. VARIANCE FROM THE GUIDELINES WILL BE NEGOTIATED ON CASE-BY-CASE BASIS.
   b. ONE JUNCTION BOX PER DOOR
2. JUNCTION BOXES MUST BE
   a. MOUNTED ABOVE THE CEILING (SEE PORTAL ELEVATIONS),
   b. A MAXIMUM OF 3650MM (12 FEET) FROM THE FINISHED FLOOR TO THE TOP OF THE BOX
   c. A MINIMUM OF 2600MM (8.5 FEET) FROM THE FINISHED FLOOR TO THE BOTTOM OF THE BOX
   d. MOUNTED PARALLEL TO THE CEILING OR A WALL - BUT PREFERABLY ON A WALL.
   e. LOCKABLE COVER - KEYED ALIKE.
4. ALL CONDUITS ENTER SIDES OF JUNCTION BOX (NOT THE BACK) WITH ONE SIDE OF JUNCTION BOX CLEAR OF CONDUITS.
5. LOCATION OF THE SECURITY JUNCTION BOX MUST BE ON THE SECURE SIDE OF THE DOOR.
6. JUNCTION BOXES MUST BE ACCESSIBLE.
   a. IF BEHIND DRYWALL: PROVIDE ACCESS PANEL MINIMUM 400X400MM (16" X 16") DIRECTLY UNDER JUNCTION BOX.
   b. IF BEHIND SUSPENDED CEILING, JUNCTION BOX SHOULD BE:
      I. HIGH ENOUGH ABOVE T-BARS SO THAT TILE CAN BE REMOVED.
      II. LOCATED SUCH THAT T-BARS DO NOT INHIBIT ACCESS.
      III. LOCATED BEHIND A TILE THAT DOES NOT HAVE OTHER DEVICES SUCH AS LIGHT FIXTURES, EXIT SIGNS, OCCUPANCY SENSORS, FIRE ALARM SPEAKERS, SPRINKLER HEADS, ETC.
   c. NOT OBSTRUCTED BY PIPES, DUCTWORK, CONDUITS, STRUCTURAL ELEMENTS, ETC.NOT LOCATED ABOVE THE SWING-PATH OF THE DOOR SUCH THAT SOMEONE ON A LADDER ACCESSING THE SECURITY JUNCTION BOX WOULD BE STRUCK BY THE DOOR.
7. ALL INTRUSION ALARM KEYPADS ARE TO BE MOUNTED ON A 101mm x 101mm (4"X4") BOX LEAVING SUFFICIENT SPACE TO MOUNT A 152mm (6") KEYPAD. IN THE EVENT THAT INTEGRATED ACCESS CONTROL SYSTEM CARD READERS ARE TO BE MOUNTED FOR THE SAME DOOR, THE INTRUSION ALARM KEYPAD IS TO BE PLACED THE FURTHER FROM THE DOOR FRAME THAN THE INTEGRATED ACCESS CONTROL SYSTEM CARD READER.

ACCESS CONTROL SYSTEM ELEVATION NOTES

1. THIS DRAWING IS FOR DIAGRAMMATIC PURPOSES ONLY.
2. GUIDELINES FOR LOCATING THE DOOR CONTROLLER JUNCTION BOX (JB)
   a. VARIANCE FROM THE GUIDELINES WILL BE NEGOTIATED ON CASE-BY-CASE BASIS.
   b. ONE JUNCTION BOX PER DOOR
3. JUNCTION BOXES MUST BE
   a. MOUNTED ABOVE THE CEILING (SEE PORTAL ELEVATIONS),
   b. A MAXIMUM OF 3650mm (12 FEET) FROM THE FINISHED FLOOR TO THE TOP OF THE BOX
   c. A MINIMUM OF 2600mm (8.5 FEET) FROM THE FINISHED FLOOR TO THE BOTTOM OF THE BOX
   d. MOUNTED PARALLEL TO THE CEILING OR A WALL - BUT PREFERABLY ON A WALL.
   e. HAVE SCREW OR THUMB LATCH ON COVER.
4. ALL CONDUITS ENTER SIDES OF JUNCTION BOX (NOT THE BACK) WITH ONE SIDE OF JUNCTION BOX CLEAR OF CONDUITS.
5. MUST COMPLY WITH T.I.A. STANDARDS
6. LOCATION OF THE SECURITY JUNCTION BOXES MUST BE ON THE SECURE SIDE OF THE DOOR.
7. JUNCTION BOX MUST BE ACCESSIBLE.
   a. IF BEHIND DRYWALL: PROVIDE ACCESS PANEL MINIMUM 400X400MM (16" X 16") DIRECTLY UNDER SECURITY JUNCTION BOXES.
   b. IF BEHIND SUSPENDED CEILING, JUNCTION BOX SHOULD BE:
      I. HIGH ENOUGH ABOVE T-BARS SO THAT TILE CAN BE REMOVED;
      II. LOCATED SUCH THAT T-BARS DO NOT INHIBIT ACCESS; AND
      III. LOCATED BEHIND A TILE THAT DOES NOT HAVE OTHER DEVICES SUCH AS LIGHT FIXTURES, EXIT SIGNS, OCCUPANCY SENSORS, FIRE ALARM SPEAKERS, SPRINKLER HEADS, ETC.
   c. NOT OBSTRUCTED BY PIPES, DUCTWORK, CONDUITS, STRUCTURAL ELEMENTS, ETC.
   d. NOT LOCATED ABOVE THE SWING-PATH OF THE DOOR SUCH THAT SOMEONE ON A LADDER ACCESSING THE SJB WOULD BE STRUCK BY THE DOOR.

Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ

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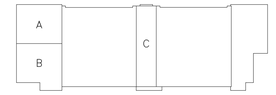
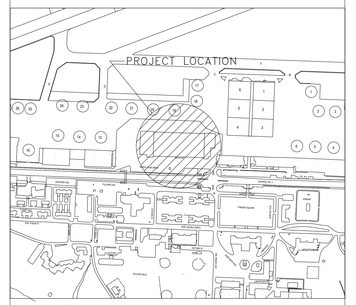


KEY PLAN N. T. S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N. T. S.

GENERAL NOTES

1. DO NOT SCALE DRAWINGS.
2. CONTRACTOR IS RESPONSIBLE TO CHECK AND FIELD VERIFY ALL DIMENSIONS.
3. ALL ELECTRICAL WORK TO BE CARRIED OUT BY CERTIFIED ELECTRICIAN.
4. CONTRACTOR TO NOTIFY DESIGN CONSULTANT IMMEDIATELY OF ANY DISCREPANCIES OF DIMENSIONS, MATERIALS OR CONDITIONS.
5. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS, SPECIFICATIONS AND CONSTRUCTION DOCUMENTS.
6. UNLESS OTHERWISE INDICATED AS EXISTING. ALL MATERIALS ARE NEW AND ARE SUPPLIED AND INSTALLED AS PART OF THIS CONTRACT.
7. CONTRACTOR TO ENSURE ALL WORK AREAS IN CONTRACT ARE FREE OF DEBRIS AND LOOSE MATERIALS AT COMMENCEMENT OF WORK ONSITE AND AT ALL TIMES DURING CONSTRUCTION PERIOD. REMOVE ALL FOREIGN OBJECT DEBRIS (FOD) [SCREWS, GARBAGE, UNSECURED MATERIALS, ETC.] FROM AREA.
8. PROVIDE PROTECTION TO ALL "EXISTING TO REMAIN" MATERIALS.
9. REPAIR, PATCH AND MAKE GOOD ALL EXISTING FINISHES AND SURFACES AFFECTED BY WORK.
10. MAKE ALL EXISTING SURFACES, IN AREA OF WORK, READY TO RECEIVE NEW FINISH.
11. ALL ACCESS HATCHES ARE TO BE PROVIDED BY THE MECHANICAL/ELECTRICAL CONTRACTOR TO SUIT. PROVIDE SIZE AND LOCATIONS TO CONSULTANTS FOR REVIEW AND COORDINATION, PRIOR TO INSTALLATION.
12. SECURITY EQUIPMENT REMOVAL AND REINSTATEMENT (BY OWNER). ACCESS AND LOCATIONS TO BE COORDINATED, PRIOR TO ENCLOSING CEILINGS/WALLS.
13. ALL CORING, SAW CUTS AND PENETRATIONS THROUGH STRUCTURE TO BE SCANNED, REVIEWED & APPROVED BY LICENSED STRUCTURAL ENGINEER.

NO.	DATE	REVISION	APPR.
5	2025/02/24	ISSUED FOR TENDER	M.T.
4	2020/10/07	ISSUED FOR TENDER	B.N
3	2020/08/19	ISSUED FOR 100% SUBMISSION	B.N
2	2020/05/19	ISSUED FOR 90% SUBMISSION	B.N

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
SECURITY	2020/10/07

SUBJECT | SUJET
SECURITY SYSTEMS DESIGN
LEGEND AND GENERAL NOTES

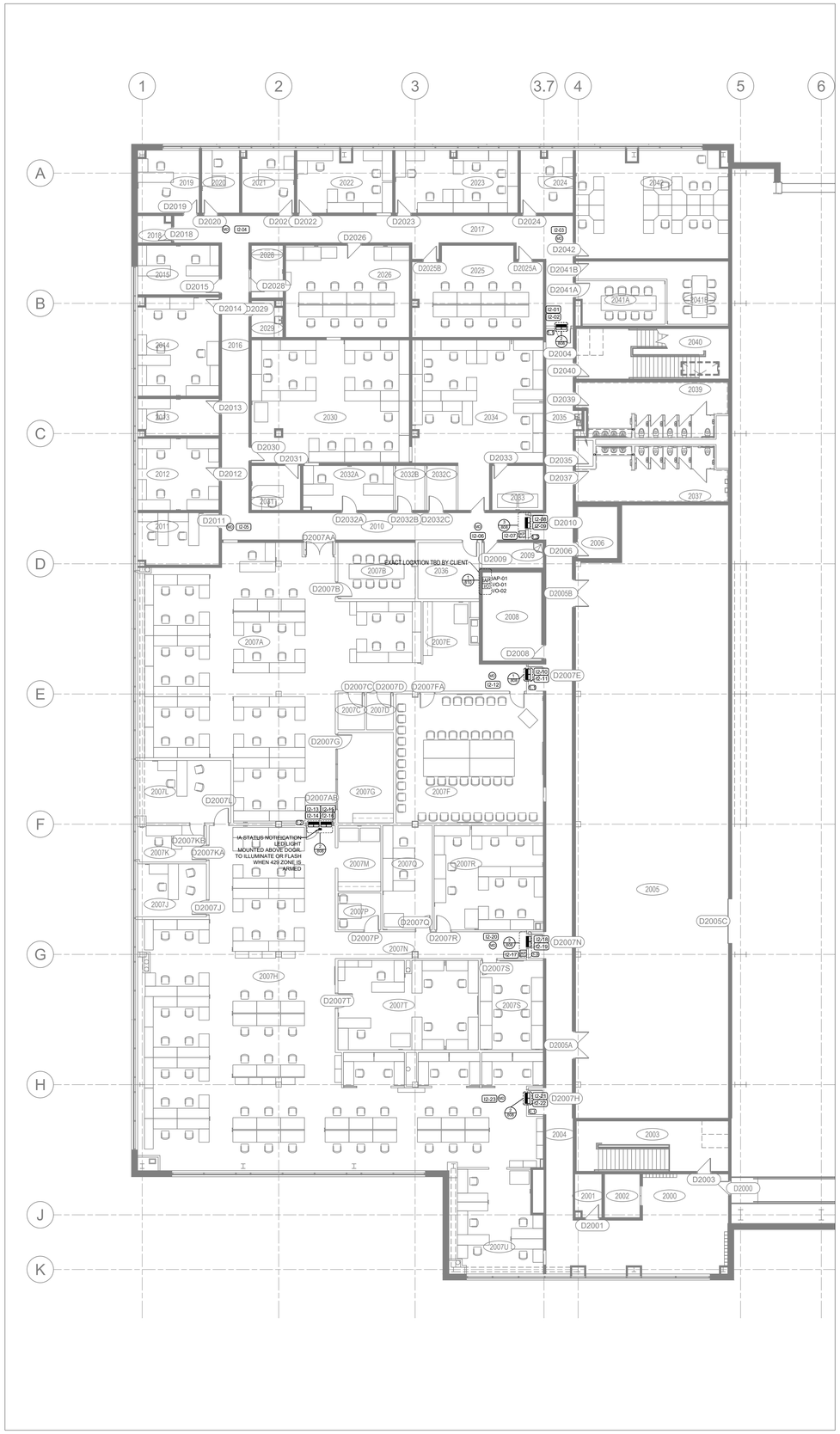
PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ B.N	XX | XX	DES O | AGENT CONC S. CHINNATAMBY
DRAWN | DESSINÉ B.N	XX | XX	PROJ MGR | GEST PROJ S. CHINNATAMBY
CHECKED | VÉRIFIÉ S.S	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION S.S		FIRE | INCENDIE CAPT CAMPBELL

WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

DWG. NO. | NO. DESSIN
L-T81-3019/2-803

Canada

2025/Feb/25 9:48am Isims 8/03 W:\FILES 2018\18\29\09 Mechanical&Electrical\Design\03 Drawings\01 CAD\1- Design Phase Drawings\800 - From Ben\2025.02.25 Updated Tender\L-T81-3019_2-803.dwg



1 806 SECURITY COMPONENT LAYOUT - INTRUSION

SCALE: 1:150

Government of Canada | Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ

UNCLASS | NON CLASSIFIÉ

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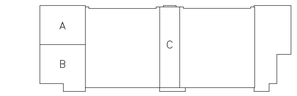
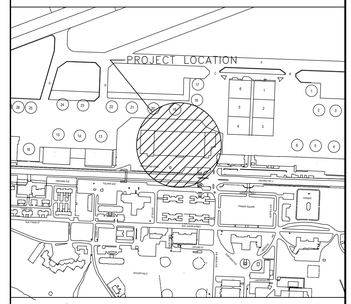


KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

GENERAL NOTES

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NO.	DATE	REVISION	APPR.
5	2025/02/24	ISSUED FOR TENDER	M.T.
4	2020/10/07	ISSUED FOR TENDER	B.N
3	2020/08/19	ISSUED FOR 100% SUBMISSION	B.N
2	2020/05/19	ISSUED FOR 90% SUBMISSION	B.N

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT

B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET

Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
SECURITY	2020/10/07

SUBJECT | SUJET

SECURITY COMPONENT LAYOUT
INTRUSION

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ B.N	XX | XX	DES O | AGENT CONC S. CHINNATAMBY
DRAWN | DESSINÉ B.N	XX | XX	PROJ MGR | GEST PROJ S. CHINNATAMBY
CHECKED | VÉRIFIÉ S.S	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION S.S		FIRE | INCENDIE CAPT CAMPBELL

WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

DWG. NO. | NO. DESSIN L-T81-3019/2-804

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BORDER LAST UPDATED: 2012-04-01

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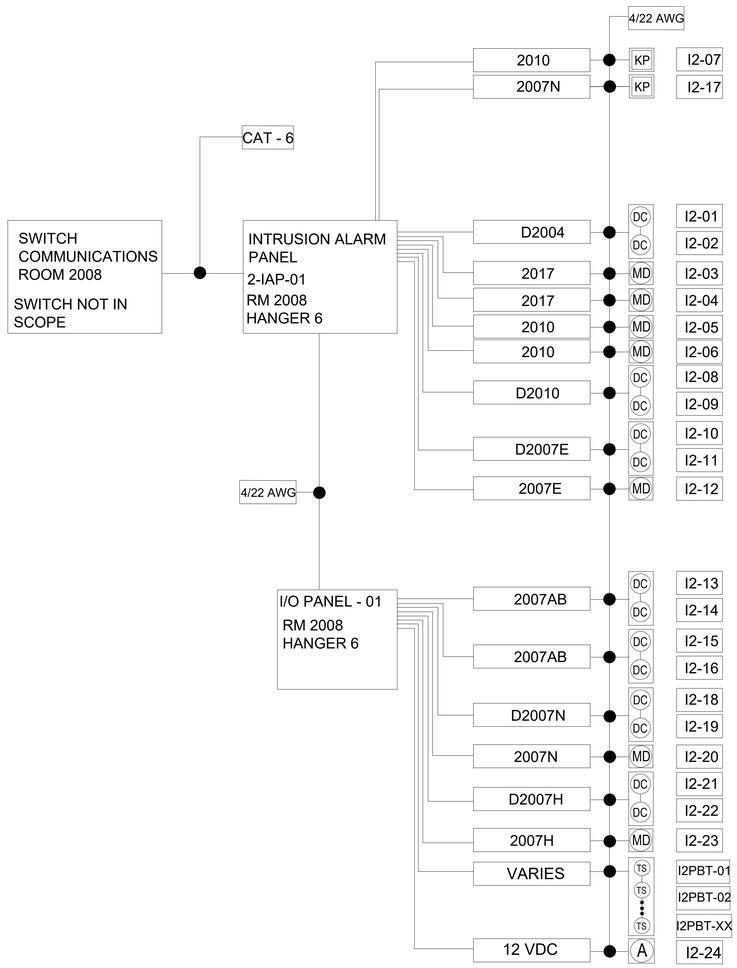

1/807 SINGLE LINE DIAGRAM - INTRUSION
SCALE: 1:150

ID	Floor	Room Location	Device	Door Type	Door Number	Switch Location	Dwg Number
2-IAP-01	2nd	**2008**	**Intrusion Alarm Panel**	**N/A**	**N/A**	2008	806
I2-01	2nd	2017	Door Contact	1.1	D2004	2008	806
I2-02	2nd	2017	Door Contact	1.1	D2004	2008	806
I2-03	2nd	2017	360° Motion Sensor	N/A	N/A	2008	806
I2-04	2nd	2017	360° Motion Sensor	N/A	N/A	2008	806
I2-05	2nd	2010	360° Motion Sensor	N/A	N/A	2008	806
I2-06	2nd	2010	360° Motion Sensor	N/A	N/A	2008	806
I2-07	2nd	2010	Keypad	1.2	D2010	2008	806
I2-08	2nd	2010	Door Contact	1.3	D2010	2008	806
I2-09	2nd	2010	Door Contact	13	D2010	2008	806
I2-10	2nd	2007E	Door Contact	1.1	D2007E	2008	806
I2-11	2nd	2007E	Door Contact	1.1	D2007E	2008	806
I2-12	2nd	2007E	360° Motion Sensor	N/A	N/A	2008	806
2-I/O-01	2nd	2008	I/O Module	N/A	N/A	2008	806
I2-13	2nd	2007A	Door Contact	1.2	D2007AB	2008	806
I2-14	2nd	2007A	Door Contact	1.2	D2007AB	2008	806
I2-15	2nd	2007A	Door Contact	1.2	D2007AB	2008	806
I2-16	2nd	2007A	Door Contact	1.2	D2007AB	2008	806
I2-17	2nd	2007N	Keypad	1.3	D2007N	2008	806
I2-18	2nd	2007N	Door Contact	1.3	D2007N	2008	806
I2-19	2nd	2007N	Door Contact	1.3	D2007N	2008	806
I2-20	2nd	2007N	360° Motion Sensor	N/A	N/A	2008	806
I2-21	2nd	2007H	Door Contact	1.1	D2007H	2008	806
I2-22	2nd	2007H	Door Contact	1.1	D2007H	2008	806
I2-23	2nd	2007H	360° Motion Sensor	N/A	N/A	2008	806

2/807 SCHEDULE - INTRUSION
SCALE: 1:150

Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ

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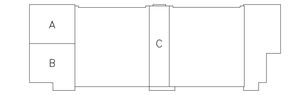
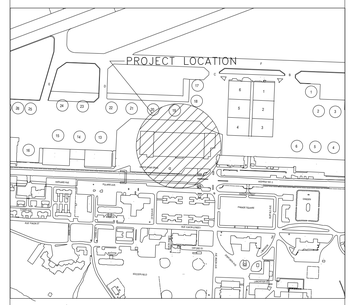


KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

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SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER: SECURITY
DATE: 2020/10/07

SUBJECT | SUJET
SINGLE LINE DIAGRAM & SCHEDULE
INTRUSION

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ B.N	XX | XX	DES O | AGENT CONC S. CHINNATAMBY
DRAWN | DESSINÉ B.N	XX | XX	PROJ MGR | GEST PROJ S. CHINNATAMBY
CHECKED | VÉRIFIÉ S.S	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION S.S		FIRE | INCENDIE CAPT CAMPBELL

WBS NO. | NO. OTP: N.001755.03
PF NO. | NO. DP: PF 500006755

DWG. NO. | NO. DESSIN: L-T81-3019/2-805

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Sheet of 12

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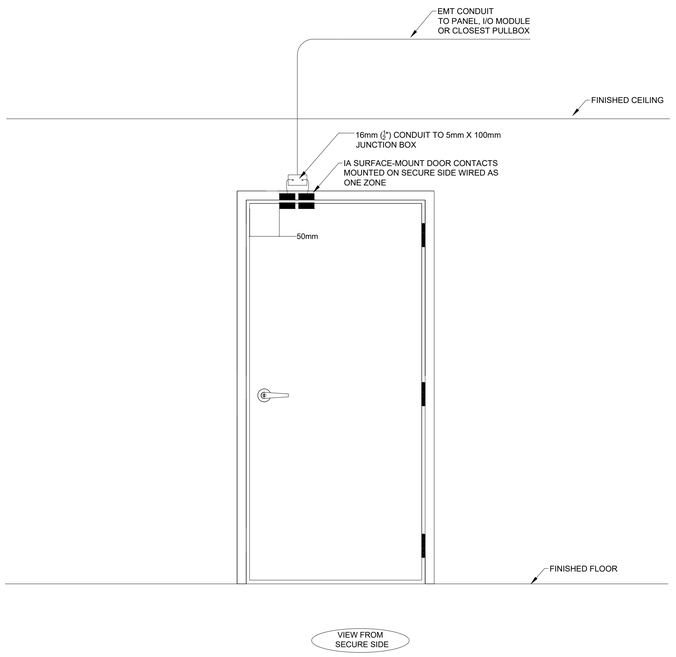
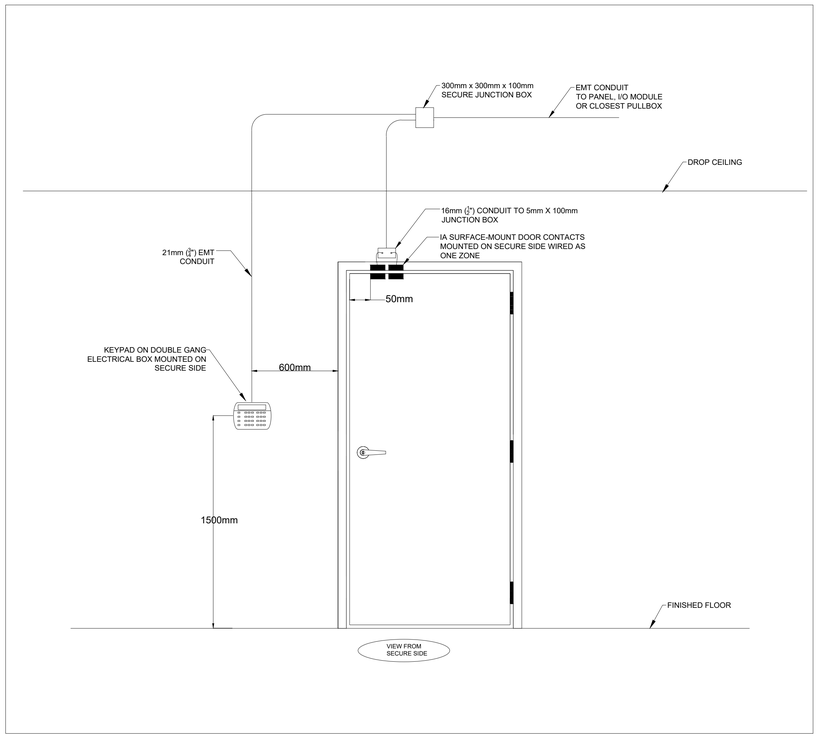


1/808 DOOR ELEVATION - INTRUSION - 1.1

SCALE: NTS



3/808 DOOR ELEVATION - INTRUSION - 1.3

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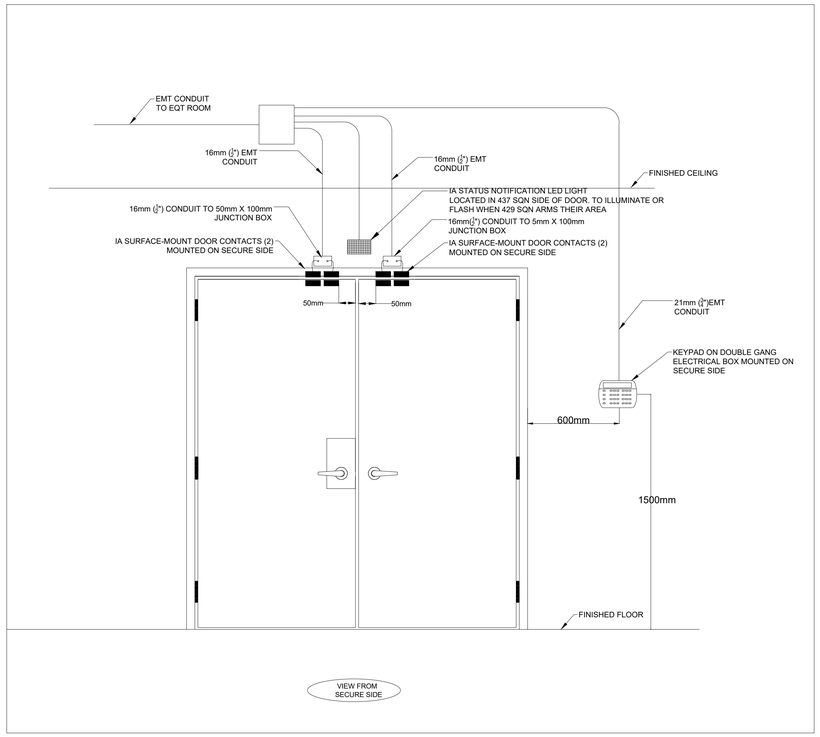

2/808 DOOR ELEVATION - INTRUSION - 1.2

SCALE: NTS

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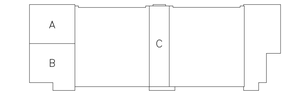
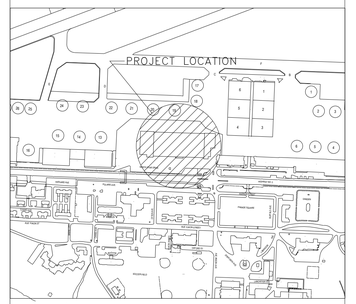


KEY PLAN N. T. S.

Real Property Operations Unit (Ontario) Detachment Trenton

8 WING, TRENTON, ONTARIO



LOCATION PLAN N. T. S.

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SCALE | ÉCHELLE

LOCATION | EMPLACEMENT

B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET

Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
SECURITY	2020/10/07

SUBJECT | SUJET

DOOR ELEVATIONS
INTRUSION

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ B.N	XX | XX	DES O | AGENT CONC S. CHINNATAMBY
DRAWN | DESSINÉ B.N	XX | XX	PROJ MGR | GEST PROJ S. CHINNATAMBY
CHECKED | VÉRIFIÉ S.S	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION S.S		FIRE | INCENDIE CAPT CAMPBELL

WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

DWG. NO. | NO. DESSIN

L-T81-3019/2-806

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INSTALL SWITCH AND MAGNET IN THE SAME
ORIENTATION AS SHOWN IN FIG ONE.

(MAG.BELOW THE SWITCH WITH BOTH LABELS READING IN THE SAME DIRECTION.

IF THE INSTALLATION REQUIRES THE CABLE TO BE ROUTED OUT THE OPPOSITE SIDE OF THE DOOR FRAME, ROTATE SWITCH AND MAGNET END FOR END AND INSTALL WITH LABELS IN. BE SURE TO MAINTAIN SWITCH-MAGNET PROXIMITY AS SHOWN.

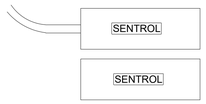
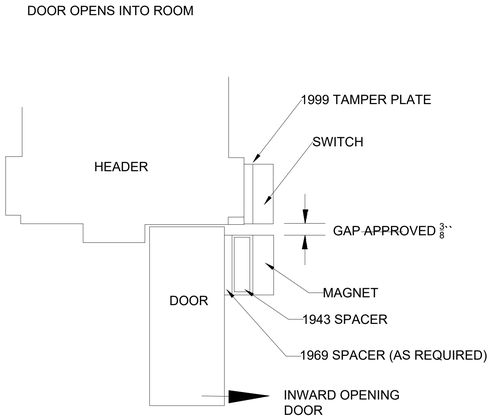
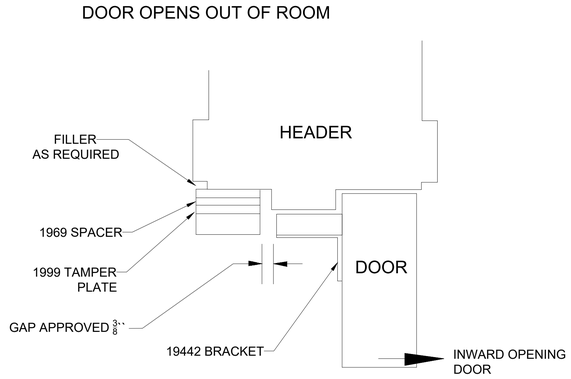


FIG. 1

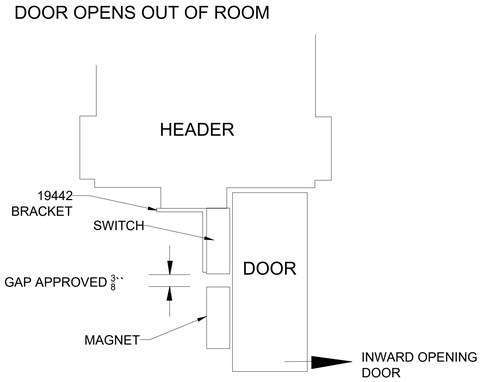
1 / 809 DOOR CONTACT ELEVATION - INTRUSION - NOTE
SCALE: NTS



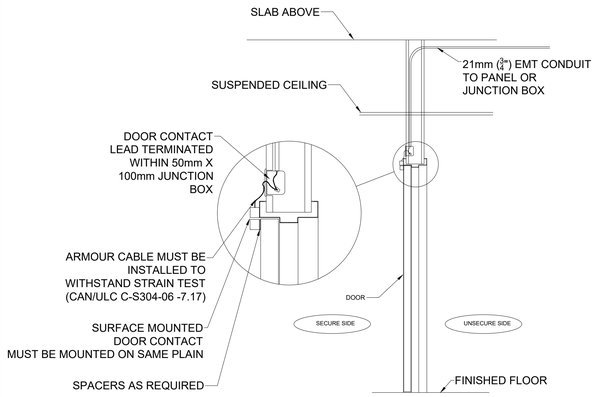
2 / 809 DOOR CONTACT ELEVATION - INTRUSION - TYPICAL
SCALE: NTS



3 / 809 DOOR CONTACT ELEVATION - INTRUSION - TYPICAL
SCALE: NTS



4 / 809 DOOR CONTACT ELEVATION - INTRUSION - TYPICAL
SCALE: NTS



5 / 809 DOOR CONTACT INSTALLATION - INTRUSION - TYPICAL
SCALE: NTS

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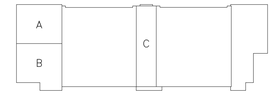
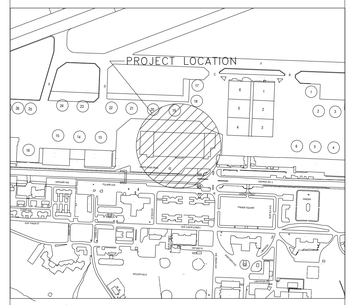


KEY PLAN N. T. S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



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SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
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8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
SECURITY	2020/10/07

SUBJECT | SUJET
DOOR ELEVATIONS
INTRUSION

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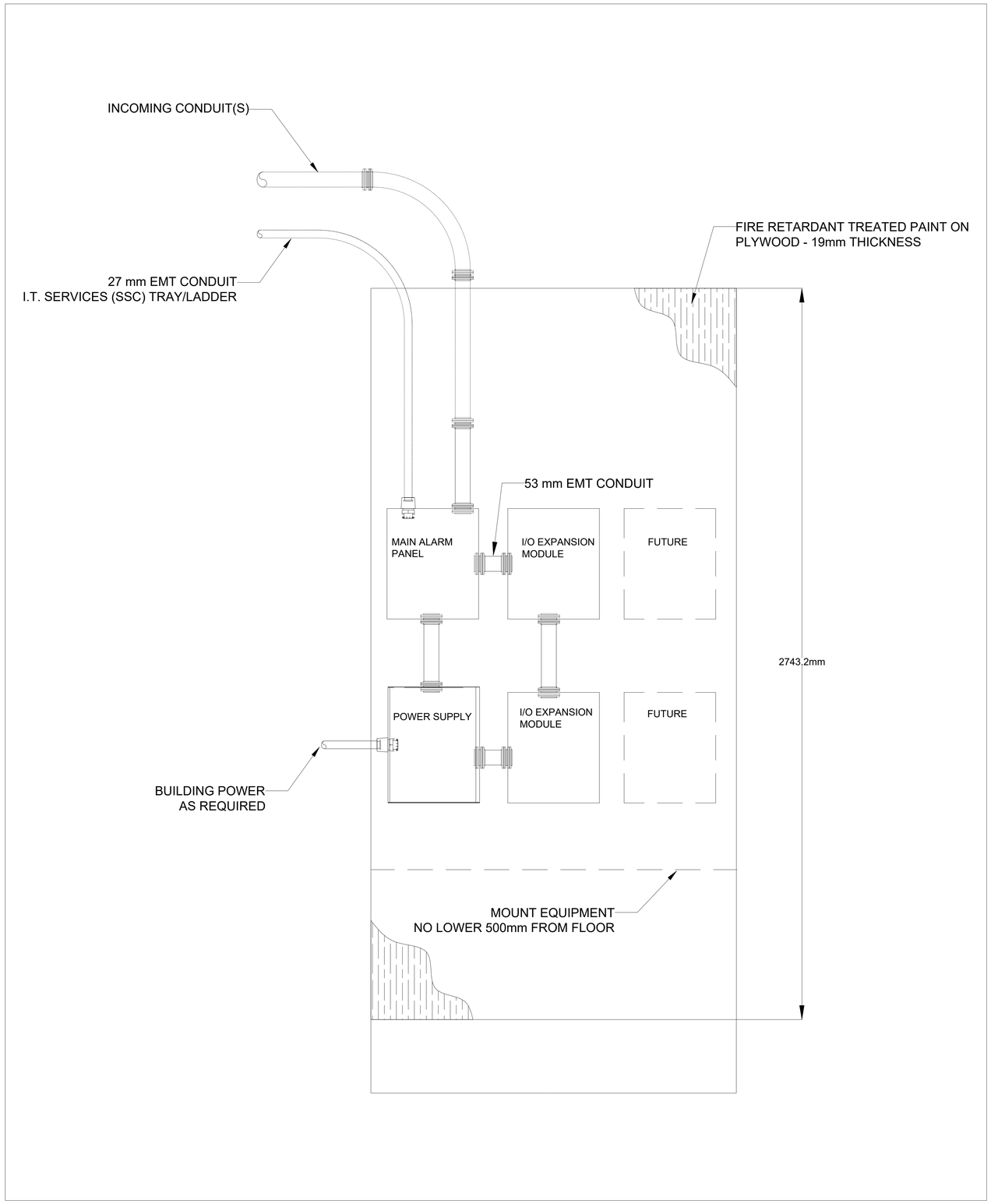
COORDINATION S.S		FIRE | INCENDIE CAPT. CAMPBELL

WBS NO. | NO. OTP: N.001755.03
PF NO. | NO. DP: PF 500006755
DWG. NO. | NO. DESSIN: L-T81-3019/2-807

Canada

2025/Feb/25, 9:52am lsims 807 W:\FILES 2018\18\80298\09 Mechanical&ElectricalDesign\03 Drawings\01 CAD\1- Design Phase Drawings\800 - From Ben\2025 02 25 Updated Tender\L-T81-3019_2-807.dwg



1/810 BACKBOARD ELEVATION - INTRUSION
SCALE: 1:150

Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ

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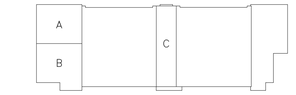
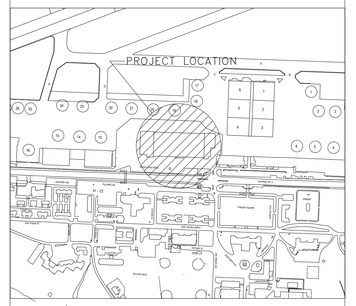


KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

GENERAL NOTES

1. DO NOT SCALE DRAWINGS.
2. CONTRACTOR IS RESPONSIBLE TO CHECK AND FIELD VERIFY ALL DIMENSIONS.
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NO.	DATE	REVISION	APPR.
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3	2020/08/19	ISSUED FOR 100% SUBMISSION	B.N
2	2020/05/19	ISSUED FOR 90% SUBMISSION	B.N

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
SECURITY	2020/10/07

SUBJECT | SUJET
BACKBOARD ELEVATION
INTRUSION

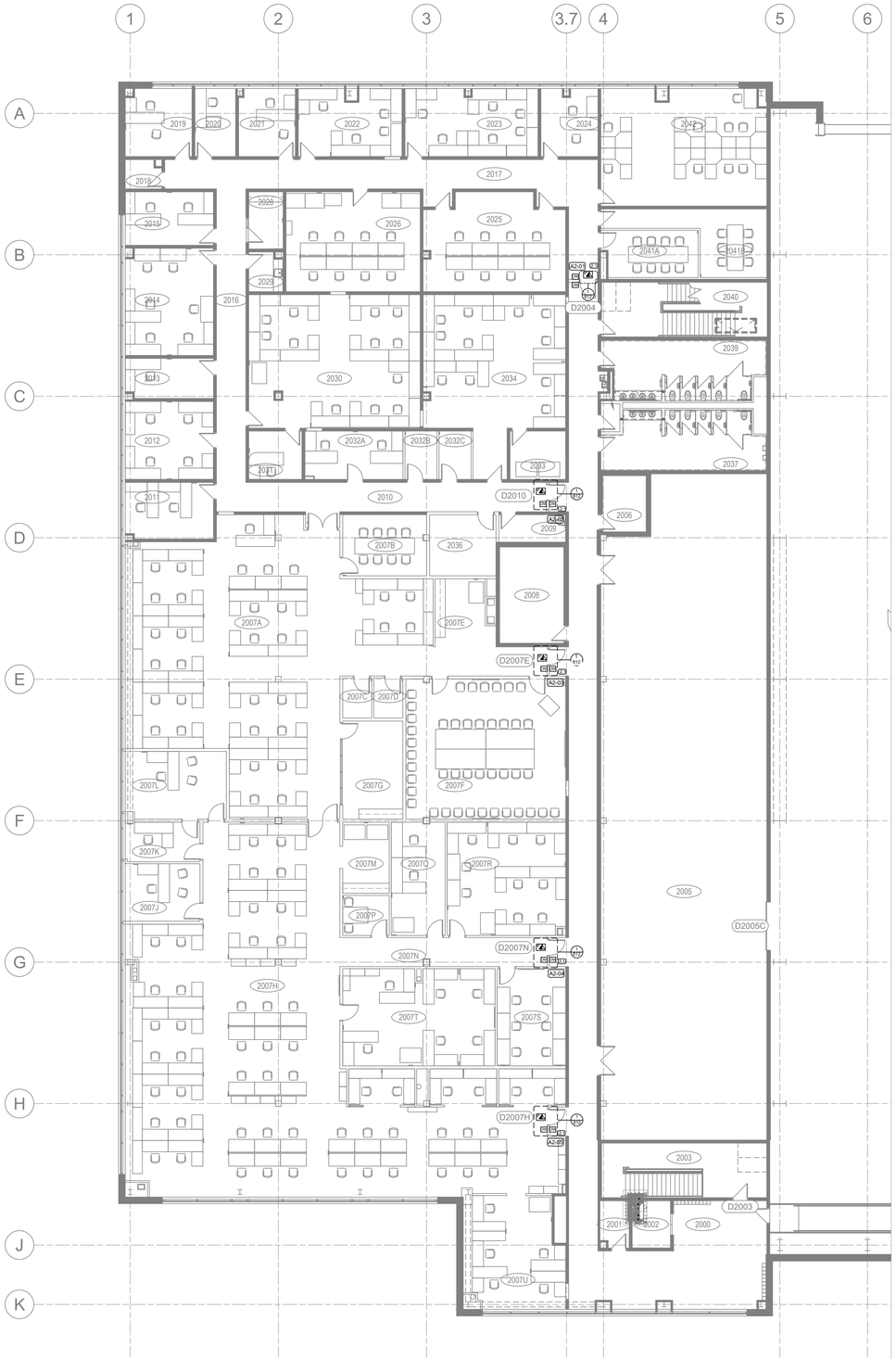
PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ B.N	XX | XX	DES O | AGENT CONC S. CHINNATAMBY
DRAWN | DESSINÉ B.N	XX | XX	PROJ MGR | GEST PROJ S. CHINNATAMBY
CHECKED | VÉRIFIÉ S.S	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION S.S		FIRE | INCENDIE CAPT CAMPBELL

WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

DWG. NO. | NO. DESSIN
L-T81-3019/2-808

Canada

2025/Feb/25, 9:52am lsims 808 W:\FILES 2018\180298\09 Mechanical&ElectricalDesign\03 Drawings\01 CAD\1- Design Phase Drawings\800 - From Ben\2025.02.25 Updated Tender\L-T81-3019_2-808.dwg



1
811
SECURITY COMPONENT LAYOUT - ACCESS CONTROL
SCALE: 1:150

Government of Canada | Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ

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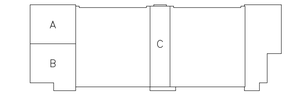
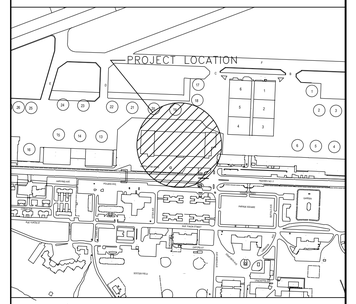


KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

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SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
SECURITY	2020/10/07

SUBJECT | SUJET
SECURITY COMPONENT LAYOUT
ACCESS CONTROL

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ B.N	XX | XX	DES O | AGENT CONC S. CHINNATAMBY
DRAWN | DESSINÉ B.N	XX | XX	PROJ MGR | GEST PROJ S. CHINNATAMBY
CHECKED | VÉRIFIÉ S.S	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION S.S		FIRE | INCENDIE CAPT CAMPBELL

WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

DWG. NO. | NO. DESSIN
L-T81-3019/2-809

Canada

BORDER LAST UPDATED 2012-04-01
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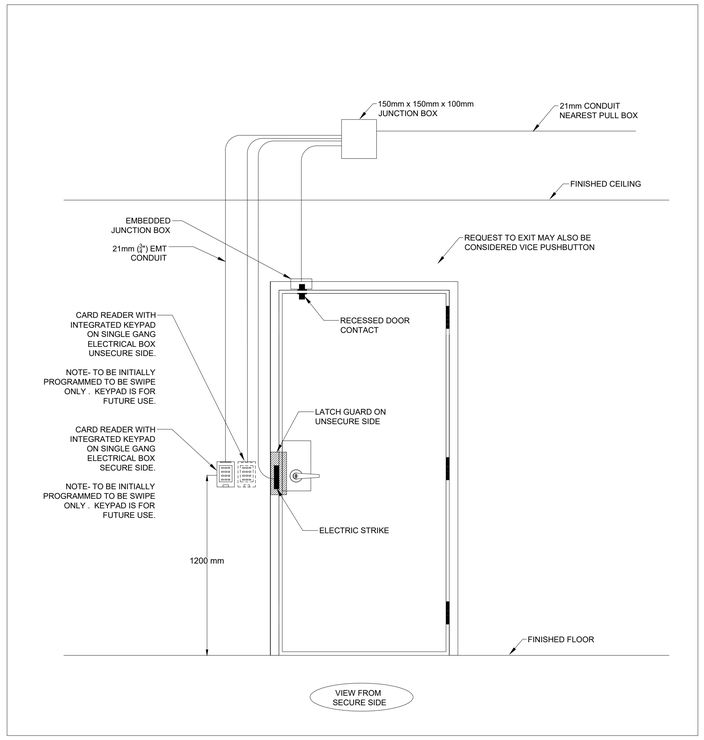
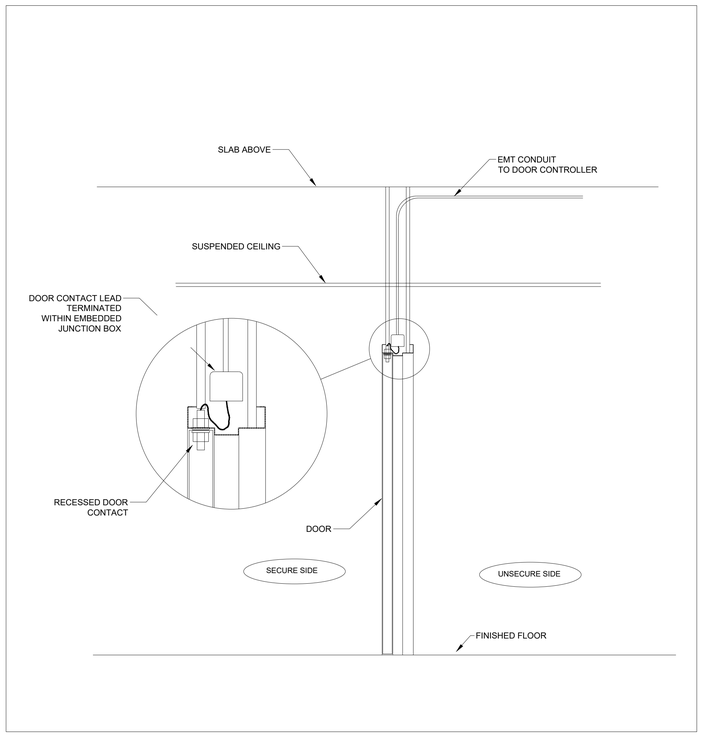
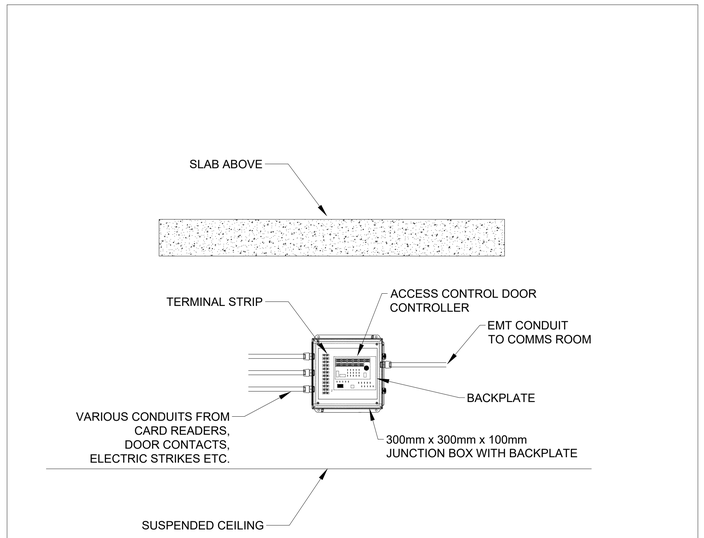


1/812 DOOR ELEVATIONS - ACCESS CONTROL 2.1
SCALE: NTS



2/812 DOOR CONTACT - RECESSED - ACCESS CONTROL
SCALE: NTS



3/812 DOOR ELEVATIONS - DOOR CONTROLLER AND BACKBOACK DETAIL
SCALE: NTS

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LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
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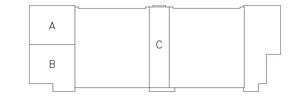
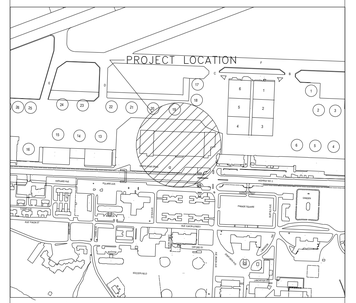


KEY PLAN N. T. S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N. T. S.

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SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
SECURITY	2020/10/07

SUBJECT | SUJET
DOOR ELEVATIONS
ACCESS CONTROL

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ B.N	XX | XX	DES O | AGENT CONC S. CHINNATAMBY
DRAWN | DESSINÉ B.N	XX | XX	PROJ MGR | GEST PROJ S. CHINNATAMBY
CHECKED | VÉRIFIÉ S.S	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION S.S		FIRE | INCENDIE CAPT CAMPBELL

WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

DWG. NO. | NO. DESSIN
L-T81-3019/2-810

Canada

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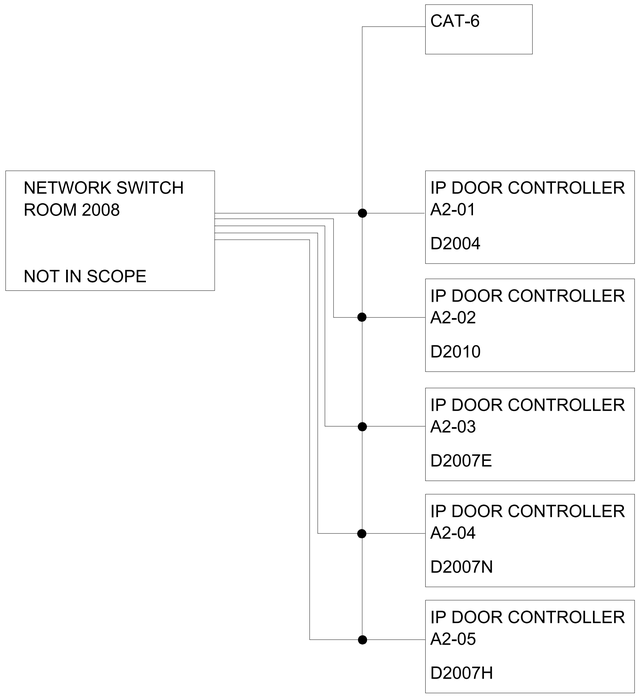

1
813
SINGLE LINE DIAGRAM - ACCESS CONTROL
SCALE: NTS

Device ID	Building ID	Device Type	Door Type	Device Location	Plan Number	Switch Location
A2-01	Hanger 6	Door Controller	2.1	D2004	811	2008
A2-02	Hanger 6	Door Controller	2.1	D2010	811	2008
A2-03	Hanger 6	Door Controller	2.1	D2007E	811	2008
A2-04	Hanger 6	Door Controller	2.1	D2007N	811	2008
A2-05	Hanger 6	Door Controller	2.1	D2007H	811	2008

2
813
SCHEDULE - ACCESS CONTROL
SCALE: NTS

Government of Canada / Gouvernement du Canada

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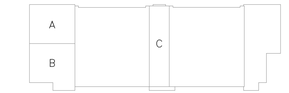

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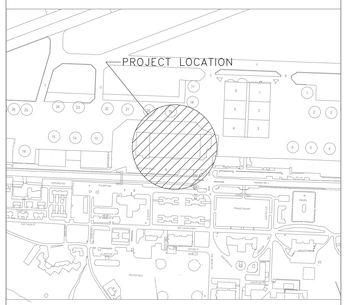
Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

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SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
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8 Wing
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PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER: SECURITY
DATE: 2020/10/07

SUBJECT | SUJET
SINGLE LINE DIAGRAM AND SCHEDULE
ACCESS CONTROL

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ: B.N		DES O | AGENT CONC: S. CHINNATAMBY
DRAWN | DESSINÉ: B.N		PROJ MGR | GEST PROJ: S. CHINNATAMBY
CHECKED | VÉRIFIÉ: S.S		DES MGR | GEST CONC
COORDINATION: S.S		FIRE | INCENDIE: CAPT CAMPBELL

WBS NO. | NO. OTP: N.001755.03
PF NO. | NO. DP: PF 500006755
DWG. NO. | NO. DESSIN: L-T81-3019/2-811

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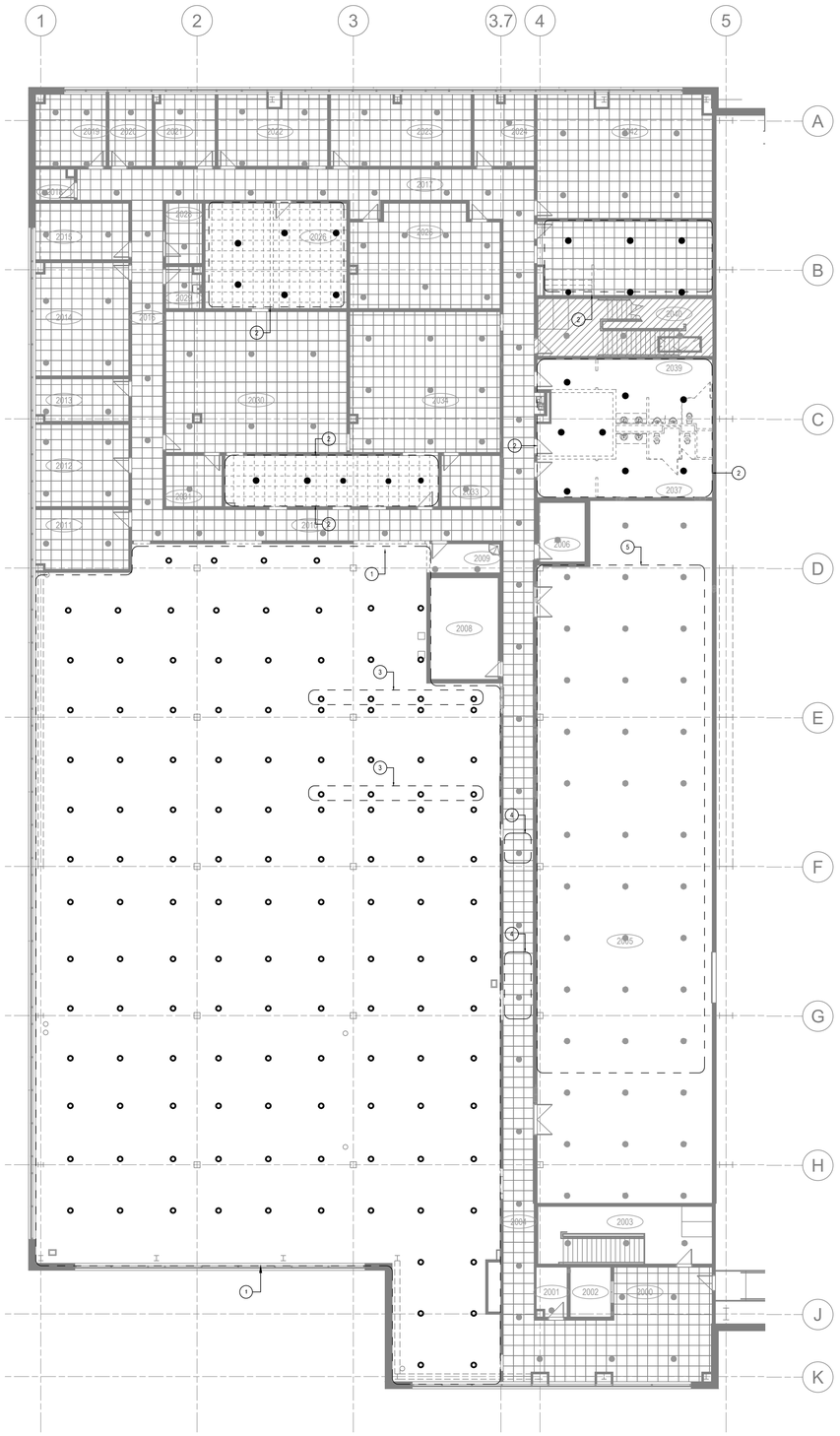
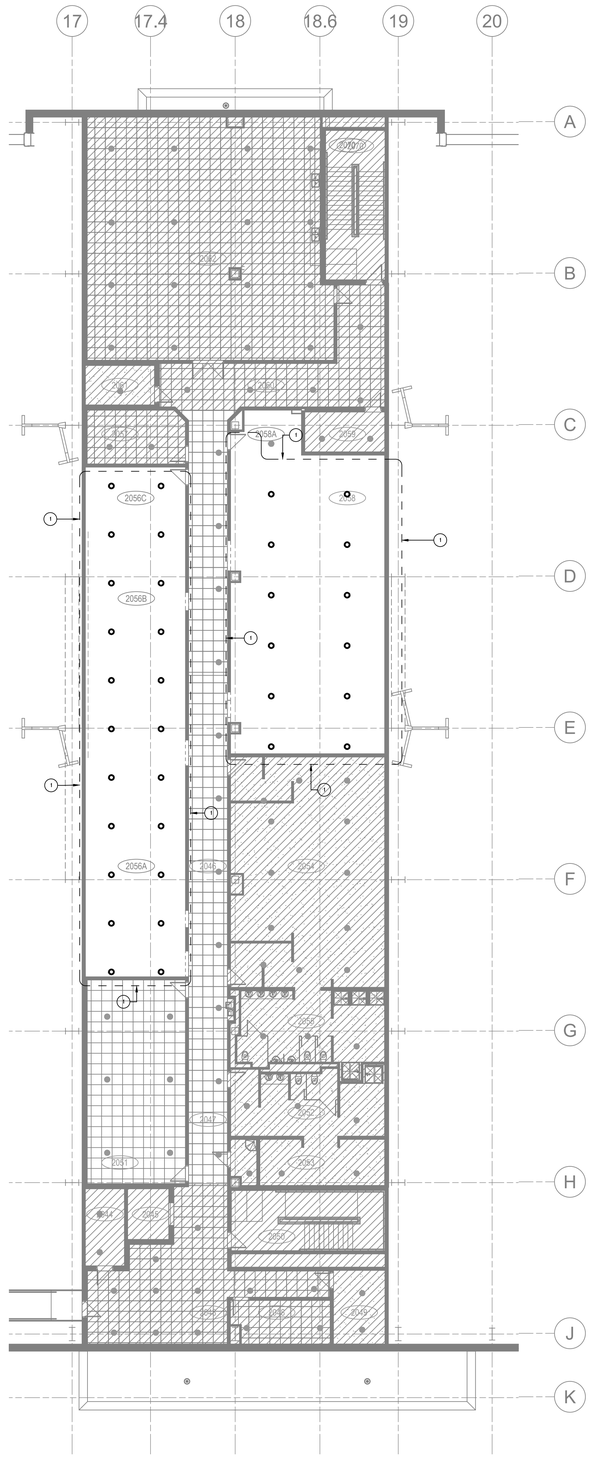


1 812 AREA A/B SECOND LEVEL - SPRINKLER DEMOLITION
SCALE: 1:150



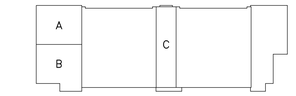
2 812 AREA C SECOND LEVEL - SPRINKLER DEMOLITION
SCALE: 1:150

DRAWINGS NOTES

1. ALL SPRINKLER HEADS INDICATED IN THIS AREA ARE EXISTING UPRIGHT TYPE AND ARE TO BE REMOVED. CONTRACTOR TO PROVIDE NEW SEMI-RECESSED PENDANT SPRINKLER HEADS AT THE NEW CEILING ELEVATION.
2. ALL SPRINKLER HEADS INDICATED IN THIS AREA ARE EXISTING PENDANT TYPE AND ARE TO BE REMOVED CONTRACTOR TO PROVIDE NEW SEMI-RECESSED PENDANT SPRINKLER HEADS AT THE NEW CEILING ELEVATION.
3. EXISTING UPRIGHT SPRINKLER HEADS BELOW EXISTING DUCTWORK TO BE REMOVED C/W PIPING BACK TO MAINS.
4. EXISTING SPRINKLER BRANCH IN THE CEILING SPACE TO BE MODIFIED/OFFSET TO ALLOW FOR NEW DUCTWORK INSTALLATION IN THE CEILING SPACE.
5. EXISTING SPRINKLERS IN MECHANICAL ROOM TO REMAIN. CONTRACTOR TO PROVIDE NEW UPRIGHT SPRINKLERS BELOW NEW AHU-11 DUCTWORK AS PER NFPA-13 REQUIREMENTS. REFER TO DRAWING 405 FOR DETAIL.

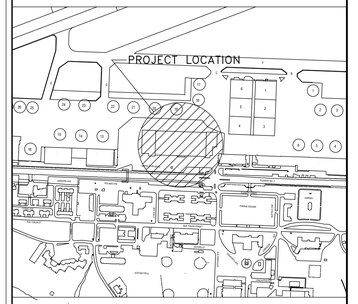
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

GENERAL NOTES:

1. ALL MECHANICAL ITEMS INDICATED ON THIS DRAWING ARE EXISTING TO REMAIN UNLESS INDICATED OTHERWISE.
2. CONTRACTOR TO CONFIRM EXISTING LOCATION OF SPRINKLER HEADS AND SIZE OF SPRINKLER PIPING PRIOR TO START OF DEMOLITION.

LICENSED PROFESSIONAL ENGINEER — S. E. M. SRIVCT — 100125843 — 2025/03/28 — PROVINCE OF ONTARIO

NO.	DATE	REVISION	APPR.
6	2025/03/28	ISSUED FOR TENDER	S.S
5	2025/02/24	ISSUED FOR TENDER	S.S
4	2020/10/07	ISSUED FOR TENDER	S.S
3	2020/08/19	ISSUED FOR 100% SUBMISSION	S.S
2	2020/05/19	ISSUED FOR 90% SUBMISSION	S.S

SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
MECHANICAL	2020/01/08

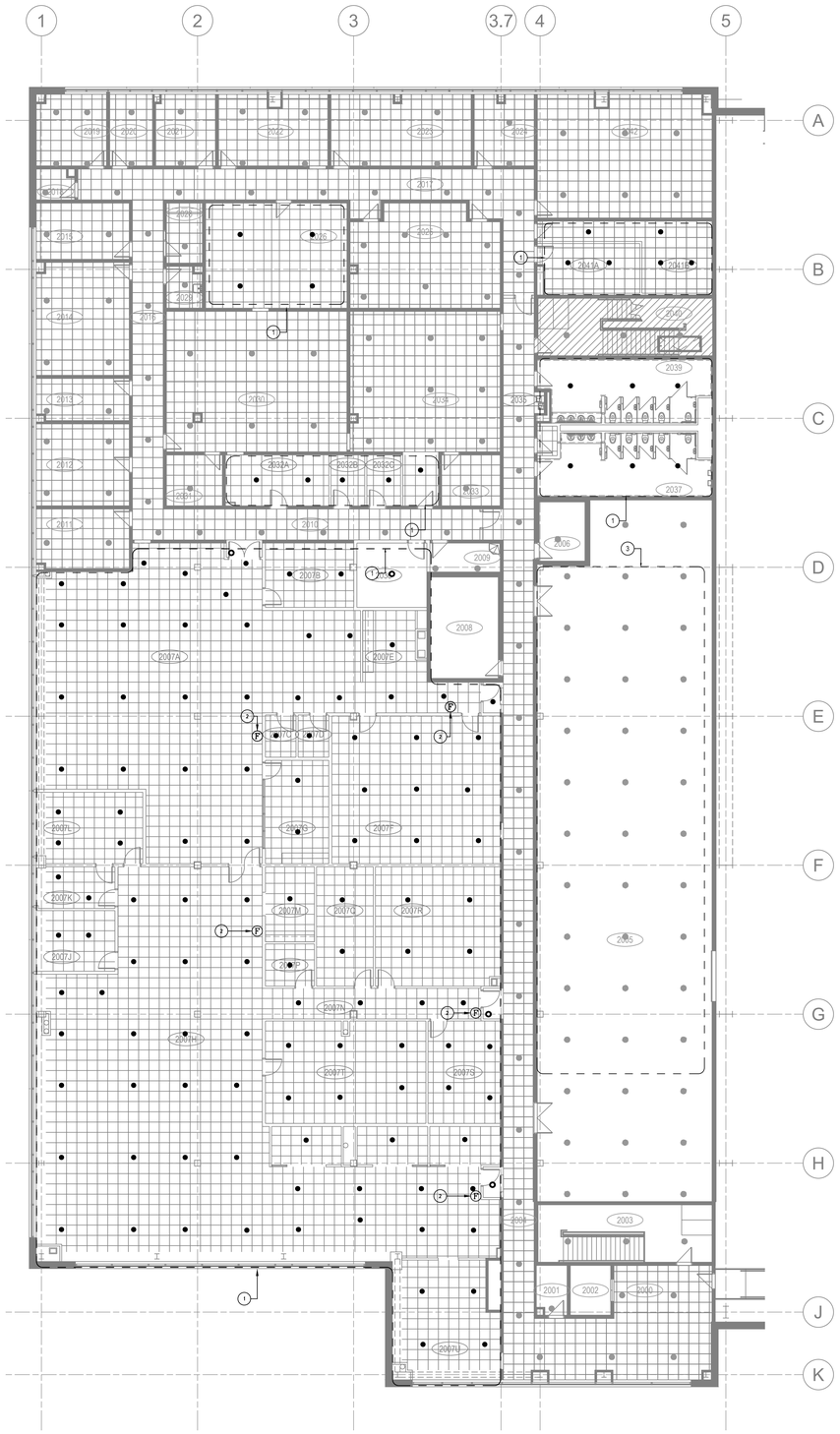
SUBJECT | SUJET
SECOND LEVEL SPRINKLER DEMOLITION PLAN

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ S.S.	XX | XX	DES O | AGENT CONC S.CHINNATAMBY
DRAWN | DESSINÉ C.K.	XX | XX	PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED | VÉRIFIÉ	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION		FIRE | INCENDIE CAPT. CAMPBELL

WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

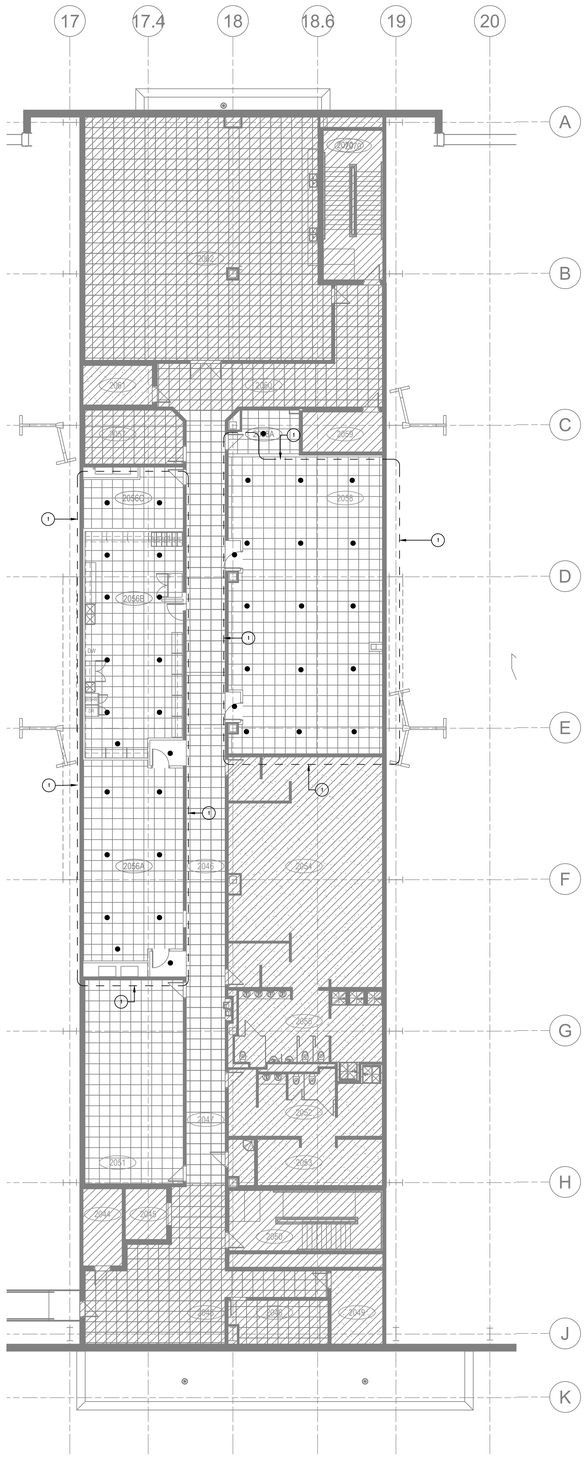
DWG. NO. | NO. DESSIN
L-T81-3019/2- 812

Canada



1 813 AREA A/B SECOND LEVEL - SPRINKLER CONSTRUCTION

SCALE: 1:150



2 813 AREA C SECOND LEVEL - SPRINKLER CONSTRUCTION

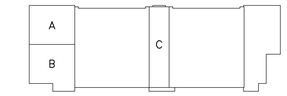
SCALE: 1:150

DRAWINGS NOTES

1. ALL SPRINKLER HEADS INDICATED IN THIS AREA ARE NEW SEMI-RECESSED TYPE.
2. NEW PORTABLE FIRE EXTINGUISHER TYPE ABC, SKG C/W WALL BRACKET.
3. EXISTING SPRINKLERS IN MECHANICAL ROOM TO REMAIN. CONTRACTOR TO PROVIDE NEW UPRIGHT SPRINKLERS BELOW NEW AHU-11 DUCTWORK AS PER NFPA-13 REQUIREMENTS. REFER TO DRAWING 405 FOR DETAIL.

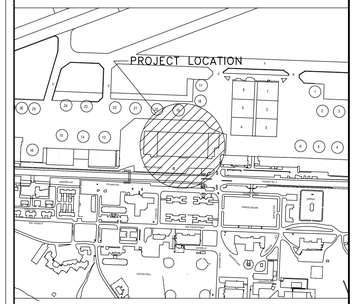
Government of Canada / Gouvernement du Canada

LEVEL OF SECURITY | NIVEAU DE SÉCURITÉ
UNCLASS | NON CLASSIFIÉ



KEY PLAN N.T.S.

Real Property Operations Unit (Ontario) Detachment Trenton
8 WING, TRENTON, ONTARIO



LOCATION PLAN N.T.S.

GENERAL NOTES:

1. ALL MECHANICAL ITEMS INDICATED ON THIS DRAWING ARE EXISTING TO REMAIN UNLESS INDICATED OTHERWISE.
2. ENTIRE FLOOR IS TO BE PROTECTED WITH A WET SPRINKLER SYSTEM. THE SYSTEM IS TO BE DESIGNED AS PER NFPA 13, LATEST EDITION.
3. THE CONTRACTOR IS TO PROVIDE SPRINKLER LAYOUT, SHOP DRAWINGS AND HYDRAULIC CALCULATIONS STAMPED BY A QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.

S. E. M. SOUCY
100753961
PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO

NO.	DATE	REVISION	APPR.
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SCALE | ÉCHELLE

LOCATION | EMPLACEMENT
B606 Hangar 6
8 Wing
Canadian Forces Base Trenton

PROJECT | PROJET
Hangar 6 Fit-up
Squadron Offices

TRADE | MÉTIER	DATE
MECHANICAL	2020/01/08

SUBJECT | SUJET
SECOND LEVEL SPRINKLER CONSTRUCTION PLAN

PRODUCTION	REVIEWED | REVU	
DESIGNED | ÉTUDIÉ S.S.	XX | XX	DES O | AGENT CONC S.CHINNATAMBY
DRAWN | DESSINÉ C.K.	XX | XX	PROJ MGR | GEST PROJ S.CHINNATAMBY
CHECKED | VÉRIFIÉ	XX | XX	DES MGR | GEST CONC X.X.
COORDINATION		FIRE | INCENDIE CAPT. CAMPBELL

WBS NO. | NO. OTP	PF NO. | NO. DP
N.001755.03	PF 500006755

DWG. NO. | NO. DESSIN
L-T81-3019/2- 813

Canada