

Last saved by: MARK.DIEGO(2019-10-04) Last Plotted: 2019-10-04
Filename: P:\60577665900-CAD_CIS910-CAD\20 SHEETS\DESIGN\01 TENDER PACKAGE 1\A1.03-TBU43 ARCHITECTURAL FS - PLANS & ELEVATIONS.DWG

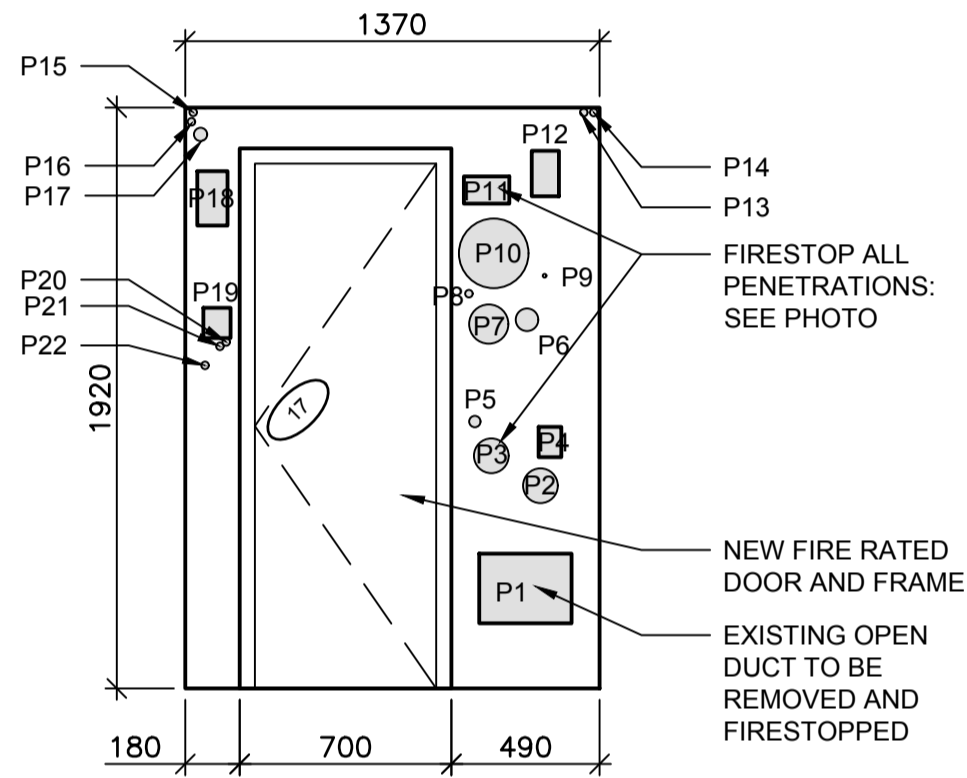
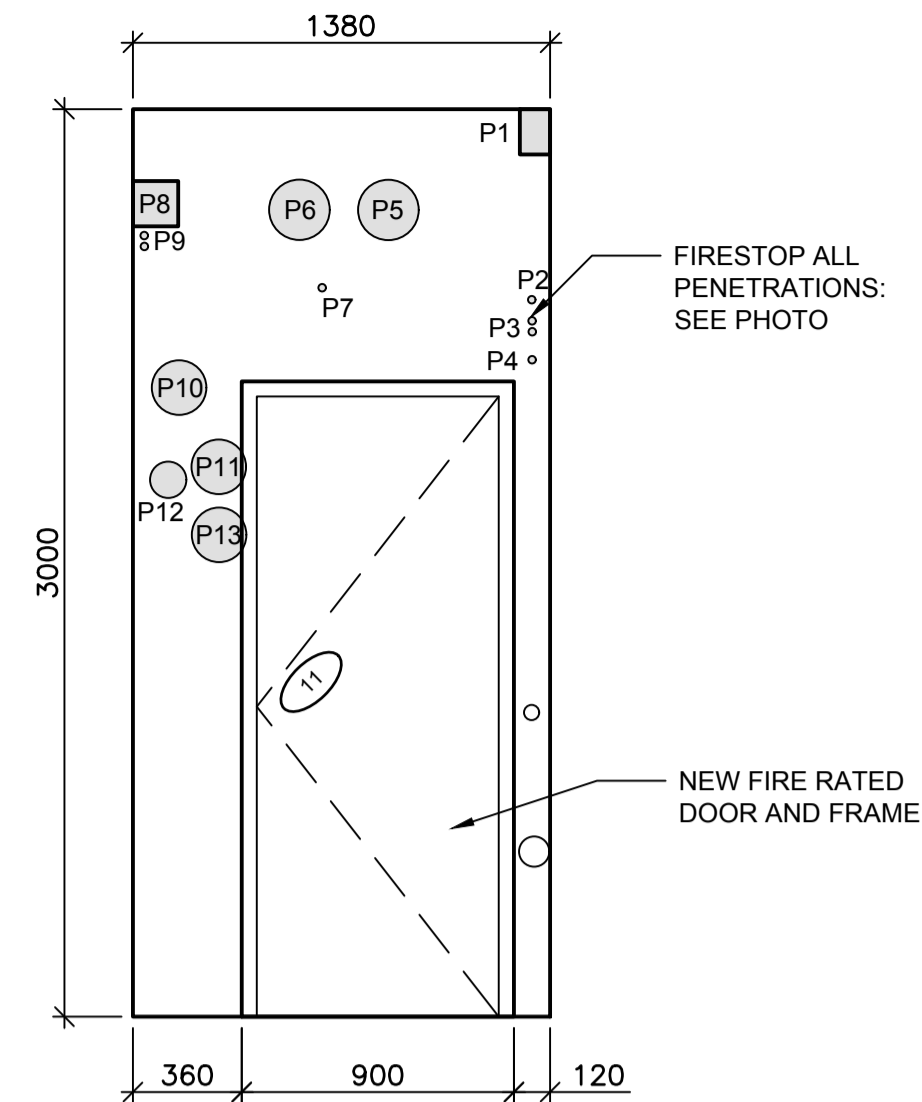
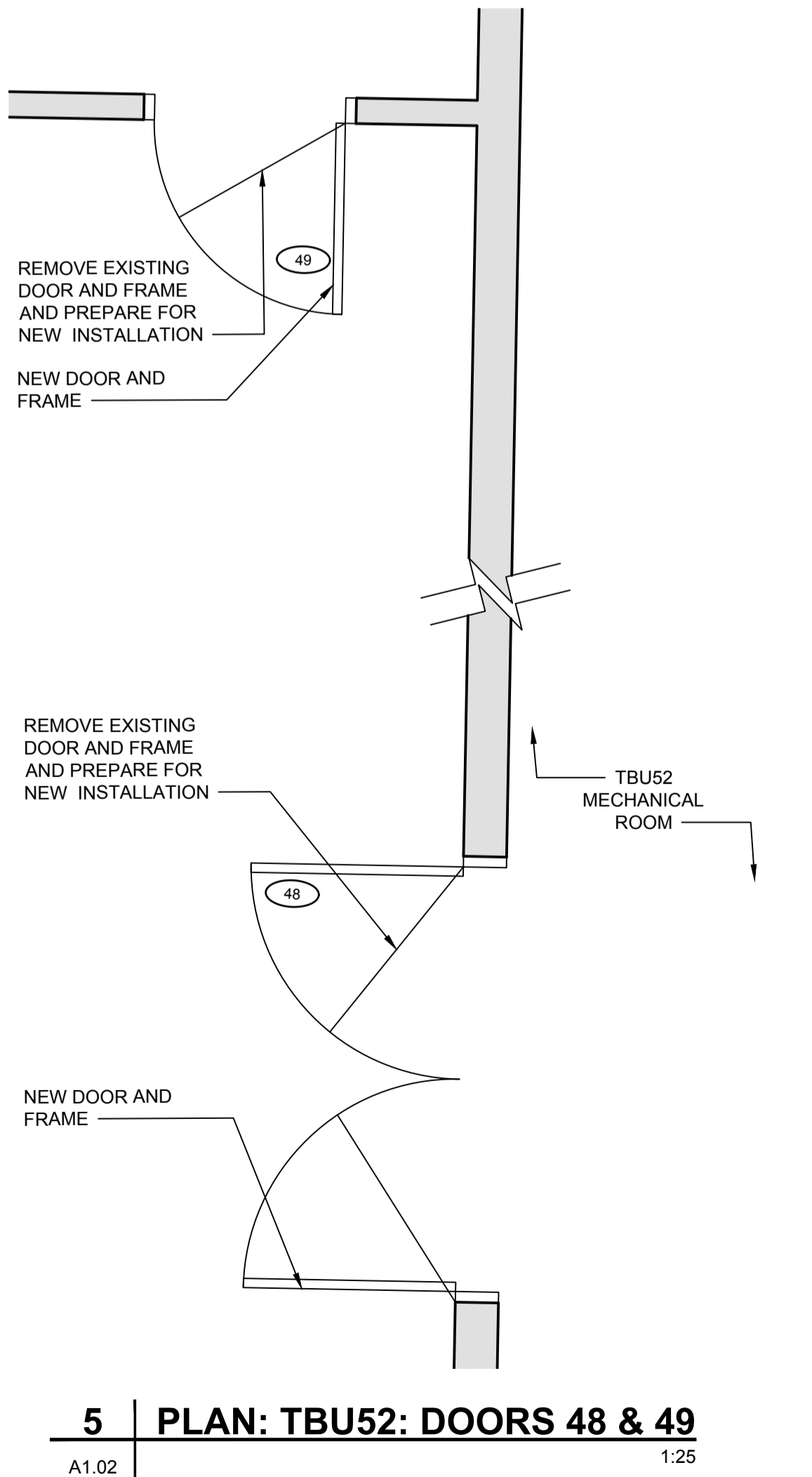
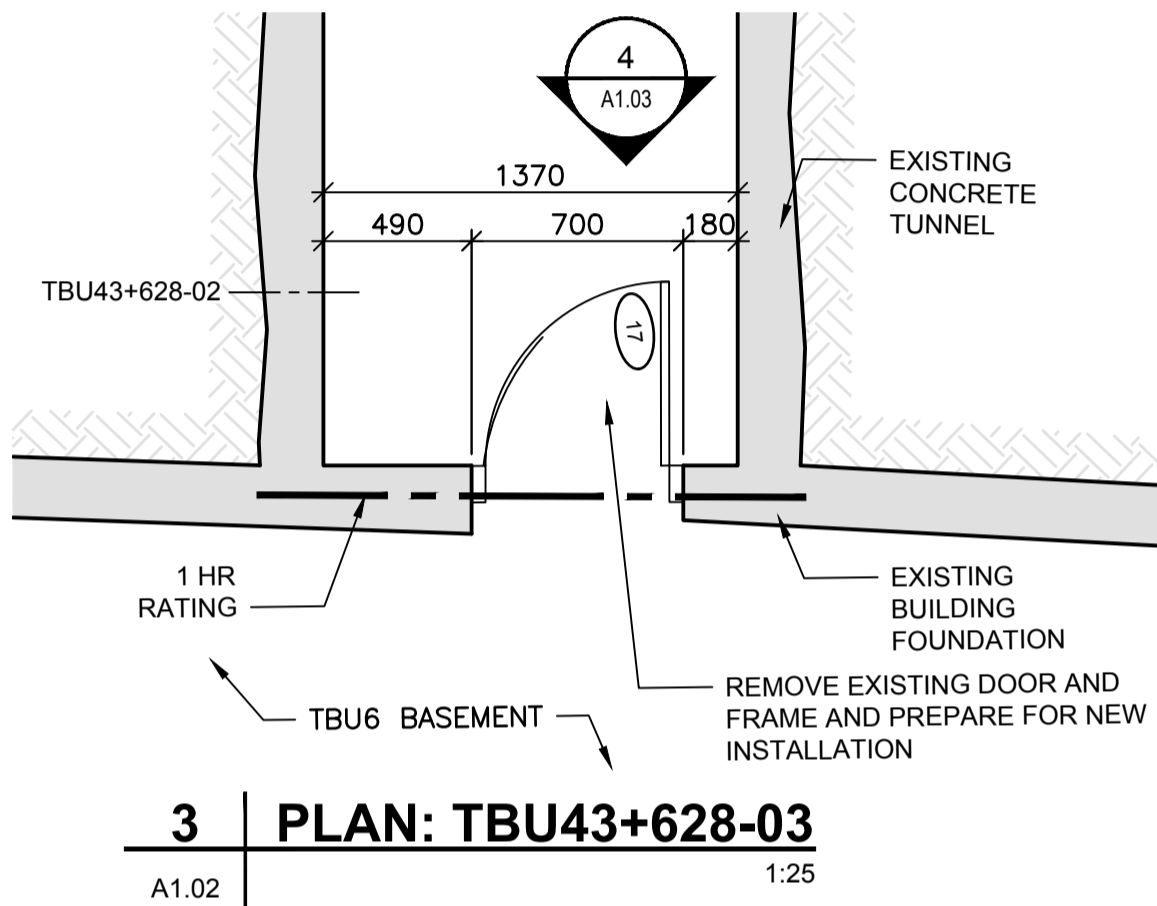
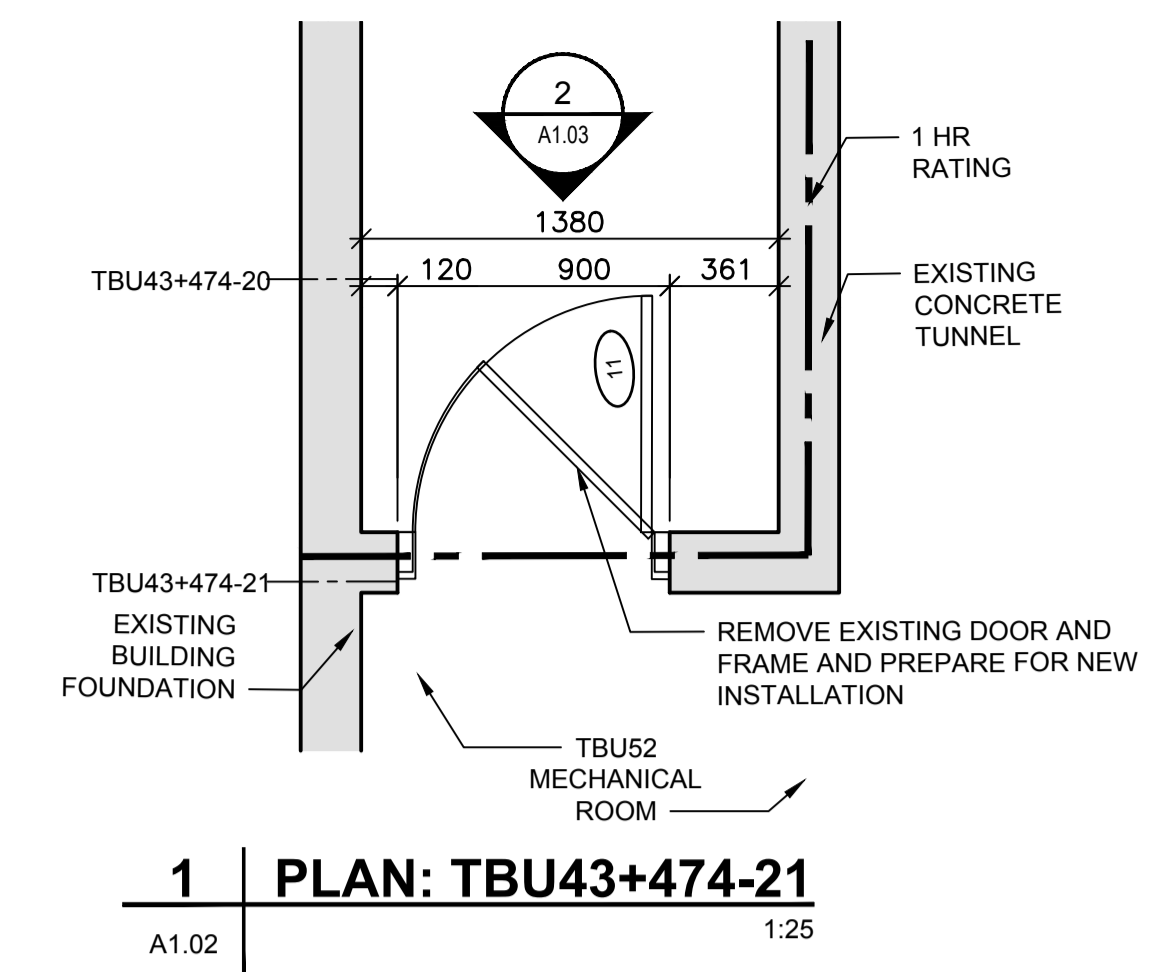


PHOTO - DETAIL 2

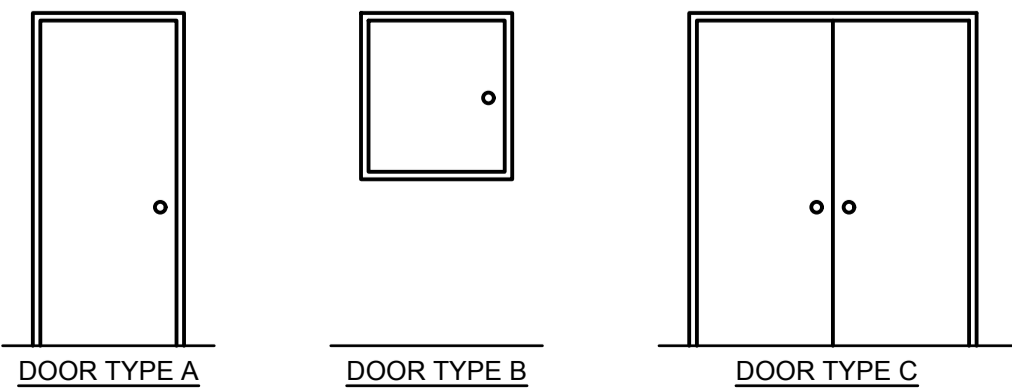


PHOTO - DETAIL 4

BUILDING CODE ANALYSIS - VENTILATION BUILDING TBU43+000				
PROJECT DESCRIPTION : GOVERNMENT SERVICES AND PUBLIC SERVICES CANADA - TUNNEL REVITALIZATION			APPLICABLE CODE REFERENCE NUMBER	
■ NEW □ ADDITION □ ALTERATION □ CHANGE OF USE				
BUILDING CODES USED : NATIONAL BUILDING CODE OF CANADA 2015 NATIONAL FIRE CODE OF CANADA 2014 NATIONAL ENERGY CODE 2017				
MAJOR OCCUPANCY CLASSIFICATION: F3 - LOW HAZARD INDUSTRIAL PART 9 APPLIES			9.10.2.1 1.3.3.3	
BUILDING AREA = NEW 67.5 m²				
NUMBER OF STOREYS ABOVE GRADE = 1 NUMBER OF STOREYS BELOW GRADE = 1				
NEW MEZZANINE AREA = NA				
NUMBER OF STREETS / FIREFIGHTER ACCESS : 1			9.10.20.3	
SPRINKLER SYSTEM REQUIRED :			9.10.18.2	
			□ ENTIRE BUILDING □ BASEMENT ONLY □ IN LIEU OF ROOF RATING ■ NOT REQUIRED	
PERMITTED CONSTRUCTION : □ COMBUSTIBLE ■ NON-COMBUSTIBLE ■ BOTH			ACTUAL CONSTRUCTION : □ COMBUSTIBLE ■ NON-COMBUSTIBLE □ BOTH	
STANDPIPE REQUIRED :			9.10.8.1	
			□ YES ■ NO	
ADEQUATE WATER SUPPLY / SERVICE :			3.2.5.7	
			■ YES □ NO	
FIRE ALARM REQUIRED :			9.10.18.2	
			□ YES ■ NO	
FIRE DETECTORS REQUIRED :			9.10.18.4	
			□ YES ■ NO	
SMOKE DETECTORS REQUIRED :			9.10.18.4	
			□ YES ■ NO	
EMERGENCY LIGHTING REQUIRED :			9.9.12.2	
			■ YES □ NO	
EXIT SIGNAGE REQUIRED :			9.9.11.3	
			■ YES □ NO	
BARRIER FREE ACCESS REQUIRED : SERVICE SPACE			3.8.2.1	
			□ YES ■ NO (EXPLAIN)	
HAZARDOUS SUBSTANCES :			3.2.6	
			□ YES ■ NO	
HIGH BUILDING :				
			□ YES ■ NO	
OCCUPANT LOAD: - BASED ON STAFFING ■ BASED ON CODE □ SERVICE SPACE NOT OCCUPIED ON A FULL-TIME BASIS WC'S REQUIRED: - N/A				
MINIMUM NUMBER OF REQUIRED EXITS = 1 TRAVEL DISTANCES = 30 m			9.9.8.2	
REQUIRED FIRE RESISTANCE RATING:				
FLOORS = N/A		MECHANICAL ROOMS = N/A	ELECTRICAL ROOMS = N/A	BEARING ASSEMBLIES = N/A
BETWEEN SERVICE SPACE AND ADJOINING BUILDING = 1 HR 9.10.10.3				
MAXIMUM OVERALL THERMAL TRANSMITTANCE (W/(m²·K)): ZONE 7A				
TABLE 3.2.2.2 ROOF = 0.138 (RSI 7.25) WALL = 0.210 (RSI 4.76)	TABLE 3.2.3.1 ASSEMBLIES IN CONTACT WITH THE GROUND = 0.284 (RSI 3.52) TO 2.4m BELOW GROUND LEVEL OR BOTTOM OF WALL	TABLE 3.2.2.4 DOOR = 1.9 (RSI 0.53)	TABLE 3.2.2.3 WINDOW = N/A	

BUILDING CODE ANALYSIS - VENTILATION BUILDING TBU43+516				
PROJECT DESCRIPTION : GOVERNMENT SERVICES AND PUBLIC SERVICES CANADA - TUNNEL REVITALIZATION			APPLICABLE CODE REFERENCE NUMBER	
■ NEW □ ADDITION □ ALTERATION □ CHANGE OF USE				
BUILDING CODES USED : NATIONAL BUILDING CODE OF CANADA 2015 NATIONAL FIRE CODE OF CANADA 2014 NATIONAL ENERGY CODE 2017				
MAJOR OCCUPANCY CLASSIFICATION: F3 - LOW HAZARD INDUSTRIAL PART 9 APPLIES			9.10.2.1 1.3.3.3	
BUILDING AREA = NEW 27 m²				
NUMBER OF STOREYS ABOVE GRADE = 1 NUMBER OF STOREYS BELOW GRADE = 0				
NEW MEZZANINE AREA = NA				
NUMBER OF STREETS / FIREFIGHTER ACCESS : 1			9.10.20.3	
SPRINKLER SYSTEM REQUIRED :			9.10.18.2	
<input type="checkbox"/> ENTIRE BUILDING <input type="checkbox"/> BASEMENT ONLY <input type="checkbox"/> IN LIEU OF ROOF RATING <input checked="" type="checkbox"/> NOT REQUIRED				
PERMITTED CONSTRUCTION : <input type="checkbox"/> COMBUSTIBLE <input type="checkbox"/> NON-COMBUSTIBLE <input checked="" type="checkbox"/> BOTH		ACTUAL CONSTRUCTION : <input type="checkbox"/> COMBUSTIBLE <input checked="" type="checkbox"/> NON-COMBUSTIBLE <input type="checkbox"/> BOTH	9.10.8.1	
STANDPIPE REQUIRED :		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	3.2.5.8	
ADEQUATE WATER SUPPLY / SERVICE :		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	3.2.5.7	
FIRE ALARM REQUIRED :		<input checked="" type="checkbox"/> YES <input checked="" type="checkbox"/> NO	9.10.18.2	
FIRE DETECTORS REQUIRED :		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	9.10.18.4	
SMOKE DETECTORS REQUIRED :		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	9.10.18.4	
EMERGENCY LIGHTING REQUIRED :		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	9.9.12.2	
EXIT SIGNAGE REQUIRED :		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	9.9.11.3	
BARRIER FREE ACCESS REQUIRED : SERVICE SPACE		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (EXPLAIN)	3.8.2.1	
HAZARDOUS SUBSTANCES :		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
HIGH BUILDING :		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	3.2.6	
OCCUPANT LOAD: - BASED ON STAFFING <input checked="" type="checkbox"/> BASED ON CODE <input type="checkbox"/> SERVICE SPACE NOT OCCUPIED ON A FULL-TIME BASIS WC'S REQUIRED: - N/A				
MINIMUM NUMBER OF REQUIRED EXITS = 1 TRAVEL DISTANCES = 30 m			9.9.8.2	
REQUIRED FIRE RESISTANCE RATING:				
FLOORS = N/A	MECHANICAL ROOMS = N/A	ELECTRICAL ROOMS = N/A	BEARING ASSEMBLIES = N/A	
BETWEEN SERVICE SPACE AND ADJOINING BUILDING = 1 HR 9.10.10.3				
MAXIMUM OVERALL THERMAL TRANSMITTANCE (W/(m²·K)): ZONE 7A				
TABLE 3.2.2.2 ROOF = 0.138 (RSI 7.25) WALL = 0.210 (RSI 4.76)	TABLE 3.2.3.1 ASSEMBLIES IN CONTACT WITH THE GROUND = 0.284 (RSI 3.52) TO 2.4m BELOW GROUND LEVEL OR BOTTOM OF WALL		TABLE 3.2.2.4 DOOR = 1.9 (RSI 0.53)	TABLE 3.2.2.3 WINDOW = N/A

DOOR, FRAME & HARDWARE SCHEDULE													
NO.	LOCATION	DESCRIPTION	DOORS					FRAMES			HARDWARE GROUP	NOTES	
			SIZE	TYPE	MATL.	FINISH	INSUL.	LABEL	SIZE & MATL.	FINISH			
1	NTBU43+000	NEW	2 - 900 x 2150	C	HM	P	YES	-	170 PSF	P	-	1	DOUBLE DOOR
2	NTBU43+000	NEW	1219 x 1524	-	-	-	-	-	-	-	-	9	PREFINISHED HATCH
3	NTBU43+000	NEW	900 x 2150	A	HM	P	YES	45 MIN	170 PSF	P	45 MIN	11	-
4	NTBU43+000	NEW	900 x 1800	A	HM	P	YES	45 MIN	170 PSF	P	45 MIN	12	-
5	-	-	-	-	-	-	-	-	-	-	-	-	NOT USED
6	NTBU43+049-33	NEW	762 x 2032	A	HM	P	YES	45 MIN	170 PSF	P	45 MIN	8	REPLACE EXISTING DOOR AND FRAME
7	NTBU43+100	NEW	1065 x 1065	-	-	-	YES	-	-	-	-	9	PREFINISHED HATCH
8	NTBU43+181	NEW	1065 x 1065	-	-	-	YES	-	-	-	-	9	PREFINISHED HATCH
9	NTBU43+198-47	NEW	750 x 2019	A	HM	P	YES	45 MIN	170 PSF	P	45 MIN	12	REPLACE EXISTING DOOR AND FRAME
10	NTBU43+230	NEW	1065 x 1065	-	-	-	YES	-	-	-	-	9	PREFINISHED HATCH
11	TBU43+474-21	NEW	800 x 2050	A	HM	P	YES	45 MIN	170 PSF	P	45 MIN	11	REPLACE EXISTING DOOR AND FRAME
12	TBU43+502	NEW	900 x 1250	B	HM	P	YES	45 MIN	170 PSF	P	45 MIN	12	-
13	TBU43+508	NEW	900 x 1250	B	HM	P	YES	45 MIN	170 PSF	P	45 MIN	12	-
14	NTBU43+520	NEW	900 x 2150	A	HM	P	YES	-	170 PSF	P	-	4	-
15	TBU43+552	NEW	600x 1300	B	HM	P	YES	45 MIN	170 PSF	P	45 MIN	11	-
16	TBU43+618-08	NEW	MATCH EXISTING	B	HM	P	YES	45 MIN	-	-	-	12	REPLACE EXISTING DOOR, FRAME TO REMAIN
17	TBU43+628-03	NEW	600 x 1735	A	HM	P	YES	45 MIN	170 PSF	P	45 MIN	6	REPLACE EXISTING DOOR AND FRAME
18	TBU43+692-02	NEW	600 x 880	B	HM	P	YES	45 MIN	170 PSF	P	45 MIN	6	-
19	TBU43+751-02	NEW	600 x 1730	A	HM	P	YES	45 MIN	170 PSF	P	45 MIN	11	REPLACE EXISTING DOOR AND FRAME
20	TBU43+767	NEW	500 x 1480	B	HM	P	YES	45 MIN	170 PSF	P	45 MIN	11	-
46	NTBU43+198-47	NEW	1524 x 1524	-	-	-	YES	-	-	-	-	9	PREFINISHED HATCH
47	TBU1	NEW	MATCH EXISTING	A	HM	P	YES	45 MIN	170 PSF	P	45 MIN	6	REPLACE EXISTING DOOR AND FRAME
48	TBU52	NEW	MATCH EXISTING	C	HM	P	YES	45 MIN	170 PSF	P	45 MIN	2	REPLACE EXISTING DOOR AND FRAME
49	TBU52	NEW	MATCH EXISTING	A	HM	P	YES	45 MIN	170 PSF	P	45 MIN	5	REPLACE EXISTING DOOR AND FRAME
50	TBU22	NEW	MATCH EXISTING	A	HM	P	YES	45 MIN	170 PSF	P	45 MIN	6	REPLACE EXISTING DOOR AND FRAME
51	TBU22	NEW	MATCH EXISTING	A	HM	P	YES	45 MIN	170 PSF	P	45 MIN	6	REPLACE EXISTING DOOR AND FRAME
52	TBU30	NEW	MATCH EXISTING	A	HM	P	YES	45 MIN	170 PSF	P	45 MIN	6	REPLACE EXISTING DOOR AND FRAME



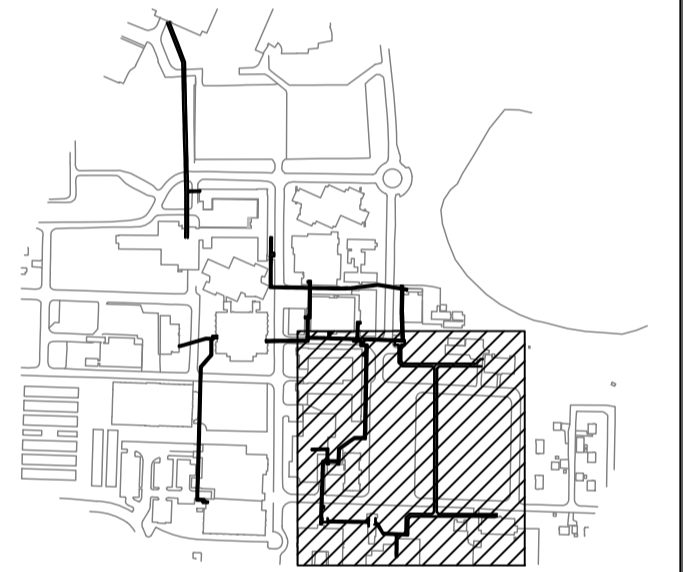
INTERIOR FINISH SCHEDULE				
TUNNEL / BUILDING NAME	FLOOR	BASE	WALLS	CEILING
NTBU43	EPOXY	COVED	PAINT	PAINT
NTBU43+000 MAIN FLOOR	EPOXY	COVED	PAINT	PAINT
NTBU43+000 BASEMENT	EPOXY	COVED	PAINT	PAINT
TBU43+692	EPOXY	COVED	PAINT	PAINT

TENDER

NOT FOR CONSTRUCTION



Key Plan



E	Issued For Tender	19/09/30
D	Issued For 99% Review	19/06/21
C	Issued For 85% Review	19/03/15
B	Issued 50% For Review	18/11/13
A	Issued For Review	18/09/07

Revision	Description	Date
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Client

Public Works and Government Services Canada

Project title

Tunnel Revitalization

Designed by

RG. MacRoberts

Drawn by

RG. MacRoberts

Approved by

B. Wolfater

PWSSC Project Manager

J. Dayman

Drawing title

Package 1 - TBU43 - Tunnel
Architectural - Fire Separations
Plans & Elevations

Project no.

1004259

Drawing no.

A1.03

Revision no.

E