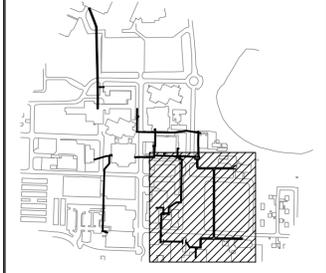


TENDER NOT FOR CONSTRUCTION



Key Plan



Revision	Description	Date
E	Issued For Tender	19/09/30
D	Issued For 99% Review	19/05/08
C	Issued For 85% Review	19/03/15
B	Issued For 50% Review	18/11/13
A	Issued For Review	18/09/07

Client
Public Works and Government Services Canada

Project title
Tunnel Revitalization

Designed by
 RG. MacRoberts
 Drawn by
 RG. MacRoberts
 Approved by
 B. Wolfater
 PWGSC Project Manager
 J. Dayman
 Drawing title

Package 1 - TBU43 - Tunnel
 Architectural - Fire Separations
 Plan

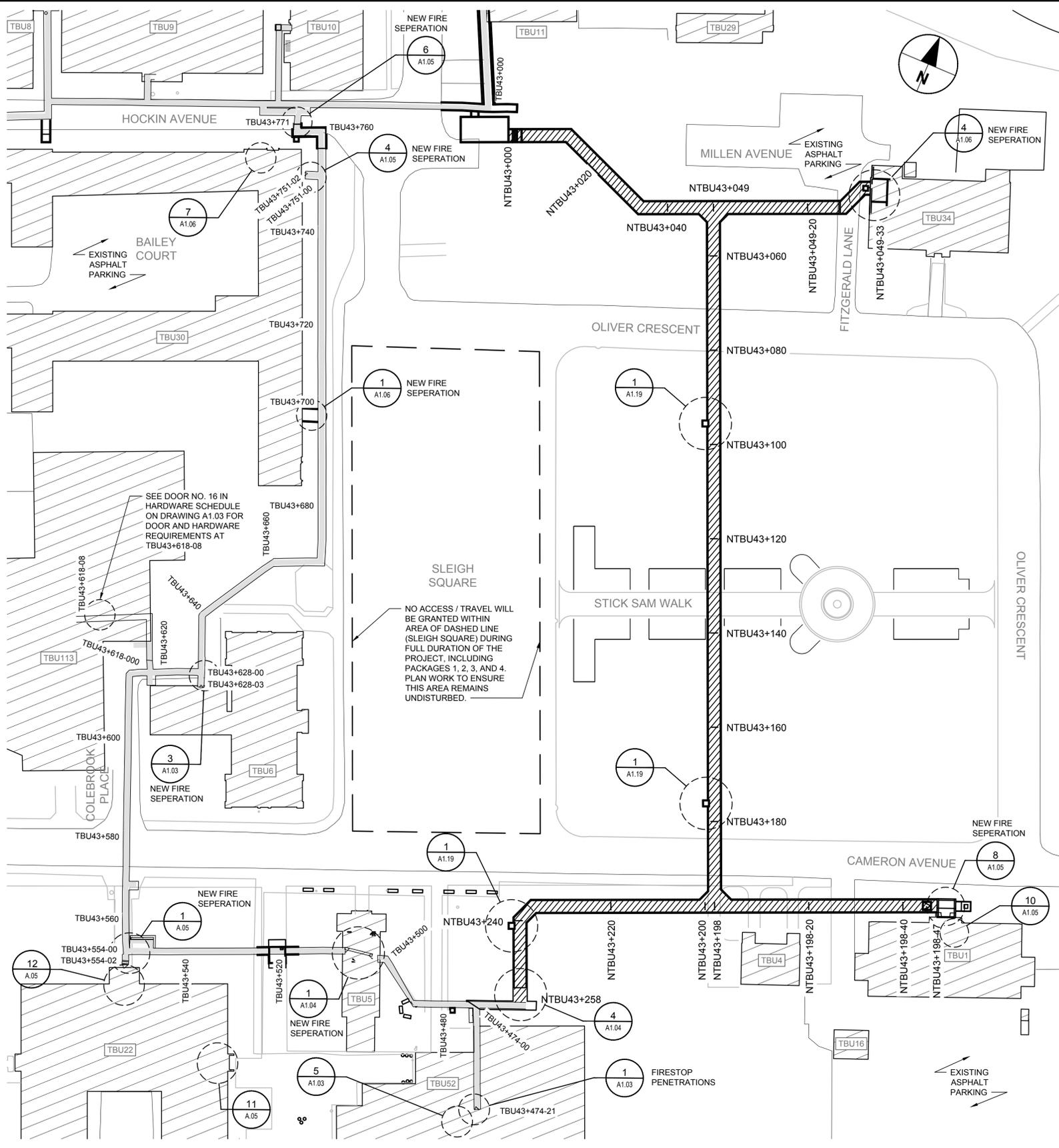
Project no.	Drawing no.	Revision no.
1004259	A1.02	E

GENERAL NOTES:

- ALL DIMENSIONS IN MILLIMETERS (mm) UNLESS NOTED OTHERWISE.
- DRAWINGS ARE NOT TO BE SCALED FOR SIZE OR DIMENSION.
- PATCH, REPAIR AND REFINISH ALL EXISTING SURFACES AND MATERIALS DAMAGED DURING DEMOLITION AND CONSTRUCTION.
- CONTRACTOR RESPONSIBLE TO VERIFY EXISTING DIMENSIONS AND CONDITIONS IN THE FIELD AND NOTIFY CONSULTANT IF ANY DEVIATIONS FROM DOCUMENTS ARE FOUND IN THE FIELD, INCLUDING UNFORESEEN CONDITIONS AFFECTING THE WORK WHICH MAY BE ENCOUNTERED.
- REPAIR ANY EXISTING DAMAGED CONCRETE AND CONCRETE AT LOCATIONS WHERE CURBS, PADS AND EQUIPMENT HAS BEEN REMOVED. REFER TO SPECIFICATIONS FOR CONCRETE REPAIR PRODUCT TO BE USED.
- SIZE AND LOCATION OF EXISTING SERVICES ARE APPROXIMATE. ALL SERVICES MAY NOT BE INDICATED. COORDINATE SERVICES WITH ALL DISCIPLINES FOR EXACT SIZE AND LOCATION.
- ALL PENETRATIONS / VOIDS TO BE SEALED OR FIRE STOPPED AS REQUIRED TO MATCH FIRE RATING OF ASSEMBLY. USE FIRESTOPPING SYSTEM SUITABLE FOR EACH SIZE AND TYPE OF PENETRATION / VOID.
- PROVIDE BLOCKING, STRAPPING, NAILING STRIPS, WOOD FRAMING, ETC. AS INDICATED ON DRAWINGS OR AS REQUIRED.
- PROVIDE FIRESTOP ASSEMBLY AT FIRE RATED WALL TO ENSURE FIRE RATING EXTENDS TO SURROUNDING WALLS, ROOF, AND FLOOR.
- WHERE SURROUNDING GRADE SURFACE FINISHES HAVE BEEN DISTURBED DURING DEMOLITION OR CONSTRUCTION RESTORE TO ORIGINAL FINISHES.
- NEW WALLS IN TUNNEL AND EXISTING WALL INFILL TO BE ONE HOUR FIRE RESISTANCE RATED 190 CONCRETE BLOCK.

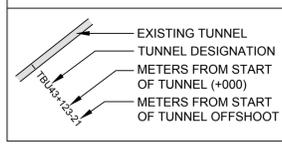
BUILDING CODE ANALYSIS - SERVICE TUNNEL TBU43 / NTBU43

	APPLICABLE CODE REFERENCE NUMBER
<input type="checkbox"/> NEW <input type="checkbox"/> ADDITION <input checked="" type="checkbox"/> ALTERATION <input type="checkbox"/> 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: N/A - EXISTING UNDERGROUND SERVICE SPACE	3.2.1.1.8
BUILDING AREA = EXISTING - 520 m ² ADDITION = 874 m ² TOTAL = 1394 m ²	
NUMBER OF STOREYS ABOVE GRADE = 0 NUMBER OF STOREYS BELOW GRADE = 1	
NEW MEZZANINE AREA : NA NUMBER OF STREETS / FIREFIGHTER ACCESS : N/A	
SPRINKLER SYSTEM REQUIRED :	3.2.4.1
<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"/> COMBUSTIBLE <input checked="" type="checkbox"/> NON-COMBUSTIBLE <input checked="" type="checkbox"/> NON-COMBUSTIBLE <input type="checkbox"/> BOTH <input type="checkbox"/> BOTH	
STANDPIPE REQUIRED :	3.2.5.8
ADEQUATE WATER SUPPLY / SERVICE :	3.2.5.7
FIRE ALARM REQUIRED :	3.2.4.1
FIRE DETECTORS REQUIRED :	3.2.4.10
SMOKE DETECTORS REQUIRED :	3.2.4.11
EMERGENCY LIGHTING REQUIRED :	3.2.7.3
EXIT SIGNAGE REQUIRED :	3.3.1.24
BARRIER FREE ACCESS REQUIRED : SERVICE SPACE	3.8.2.1
HAZARDOUS SUBSTANCES :	3.2.6
HIGH BUILDING :	
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 = 2 TRAVEL DISTANCES = 50 m SERVICE SPACE	3.3.1.3.7 3.4.2.4.3
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 3.6.2.1	
MAXIMUM OVERALL THERMAL TRANSMITTANCE (W/m ² -K): ZONE 7A	
TABLE 3.2.2.2 ROOF = 0.138 (RSI 7.25) 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 DOES NOT APPLY, 3.2.2.4.3(a) DOOR = 2.2 (RSI 0.45)

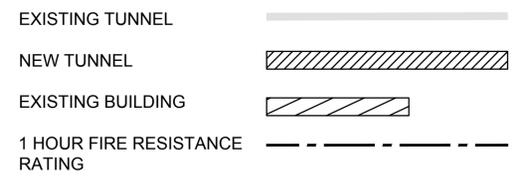


1 | TBU43 PLAN
 A1.01 | 1:500

TUNNEL MARKER LEGEND



LEGEND



Last saved by: MARK.DIEGO(2019-10-04) Last Plotted: 2019-10-04
 Filename: P:\66577665900-CAD_CIS910-CAD\20-SHEETS\DESIGN\1-TENDER PACKAGE 1\A1.02-FIRE SEPERATIONS - PLAN.DWG

