



ADDENDUM #1

TO TENDER PW2019-1

This Addendum is to replace PW2019-1-407 and shall be incorporated into the Tender Documents.

Closing Date: May 2, 2019 at 12:00 noon.

Tender Drawings

1. With respect to drawing PW2019-1-407 dated April 3, 2019, replace with PW2019-1-407 dated April 25, 2019 and PW2019-1-407A dated April 25, 2019, appended to this addendum.

Contractor : _____

Signature: _____

REINFORCING NOTES

MATERIALS

- 1.0 REINFORCING STEEL SHALL BE NEW, DEFORMED BILLET-STEEL BARS TO CSA STANDARD G30.18, LATEST EDITION, GRADE 400R.

EXECUTION

- 1.0 PERFORM CONCRETE REINFORCING WORK IN ACCORDANCE WITH CSA A23.3 LATEST EDITION.
 2.0 MINIMUM CLEAR COVER TO REINFORCEMENT SHALL BE AS FOLLOWS:
 A) CAST AGAINST EARTH AND PERMANENTLY EXPOSED TO EARTH: 75mm
 EXPOSED TO CHLORIDES OR SULPHIDES: 60mm
- 3.0 BEFORE PLACING ENSURE REINFORCING IS CLEAN, FREE OF LOOSE SCALE, DIRT, OR OTHER FOREIGN COATING WHICH WOULD REDUCE THE BOND TO CONCRETE.
 4.0 ALL LAP SPLICE LENGTHS TO BE CLASS B(1.3 x ld), WHERE ld = TENSION DEVELOPMENT LENGTH, UNLESS OTHERWISE NOTED.
 5.0 ALL SPLICES TO BE STAGGERED.
 6.0 ALL LONGITUDINAL BARS TO HAVE STANDARD 90° HOOKS AT ENDS UNLESS OTHERWISE NOTED.

REBAR LAP & ANCHORAGE SCHEDULE			
REINFORCED CONCRETE			
ONLY FOR: 35 MPa CONCRETE; NORMAL WEIGHT, 400 MPa REBAR			
BAR SIZE	LAP LENGTH (mm)	ANCHORAGE (mm)	BEND DIA. (mm)
10M	470	360	70
15M	660	510	100
20M	810	620	120

- 7.0 NOTIFY THE CONSULTANT 48 HOURS IN ADVANCE OF PLACING CONCRETE TO PERMIT VIEWING OF REINFORCEMENT. DO NOT CLOSE FORMS UNTIL THE REINFORCEMENT HAS BEEN REVIEWED.
 8.0 SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION OF REINFORCEMENT.

CONCRETE FORMWORK

- 1.0 ALL FORMWORK TO CSA-A23.1 LATEST EDITION.
 2.0 THE GENERAL CONTRACTOR PLACING THE CONCRETE IS RESPONSIBLE FOR THE DESIGN AND ADEQUACY OF ALL FORMWORK.

SHOP DRAWINGS AND SUBMITTALS

- 1.0 SUBMIT ENGINEER STAMPED SHOP DRAWINGS WITH A STAMP OF A REGISTERED PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO, INCLUDING CONNECTION DETAILS, CLEARLY INDICATING PROFILES, SIZES, SPACING AND LOCATIONS OF ALL STRUCTURAL MEMBERS, BRACING, CAMBERS AND LOADS.

SHOP DRAWING SUBMITTALS			
ITEM	REQD	ENG. STAMP	NOTES
CONCRETE MIX DESIGN	✓		
REINFORCING STEEL	✓		
PRECAST CONCRETE BLOCKS	✓		

MATERIAL TESTING AND INSPECTION			
ITEM	REQD	NOTES	
SOIL BEARING CAPACITY	✓	BY GEOTECHNICAL ENGINEER	
FOUNDATION SUBGRADE	✓	BY GEOTECHNICAL ENGINEER	
SOIL COMPACTION	✓	BY GEOTECHNICAL ENGINEER	
CONCRETE COMP. TEST	✓		
CONCRETE AIR ENTRAINMENT	✓		
CONCRETE SLUMP	✓		

EXCAVATION, BACKFILL AND COMPACTION

EXCAVATION

- 1.0 IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL WORK COMPLIES WITH GOVERNING SAFETY STANDARDS.
 2.0 CONFIRM LOCATION OF ALL SUBGRADE SERVICES PRIOR TO COMMENCING SITE WORK.
 3.0 LOCATING AND ISOLATING OF UNDERGROUND UTILITIES SHALL BE COMPLETED BEFORE ANY EXCAVATION COMMENCES. CARE SHALL BE EXERCISED DURING EXCAVATION TO AVOID DAMAGE TO EXISTING UNDERGROUND PIPES, STRUCTURES, DUCTS, POWER AND GROUNDING CABLES. IF DAMAGE TO ANY OF THESE OCCURS, THE CONSULTANT SHALL BE NOTIFIED IMMEDIATELY.
 4.0 THE CONTRACTOR SHALL MONITOR EXCAVATION SLOPES ADJACENT TO STRUCTURES, ROADS AND UNDERGROUND UTILITIES THROUGH THE COURSE OF EXCAVATION, BACKFILLING AND COMPACTION. THE CONTRACTOR SHALL BE PREPARED AT ALL TIMES TO TAKE PREVENTATIVE OR REMEDIAL ACTIONS. (E.G. UNDERPINNING OF EXISTING STRUCTURES AND FOUNDATIONS).
 5.0 THE CONTRACTOR SHALL INSTALL AND MAINTAIN CONSTRUCTION BARRIERS, FENCING, GUARD RAILS AND LIGHTING AS REQUIRED FOR THE WORK.
 6.0 ANY RE-ESTABLISHMENT OF DESIGN GRADES DUE TO OVER EXCAVATIONS MUST BE DONE USING LEAN CONCRETE OR WITH COMPACTED STRUCTURAL FILL TO ACHIEVE THE ALLOWABLE SAFE DESIGN BEARING PRESSURES, AT NO COST TO THE OWNER.
 7.0 EXCAVATE ALL TOPSOIL, ORGANIC MATERIAL, ASPHALT, LOOSE AND UNSUITABLE FILL TO THE APPROVAL OF THE CONSULTANT.

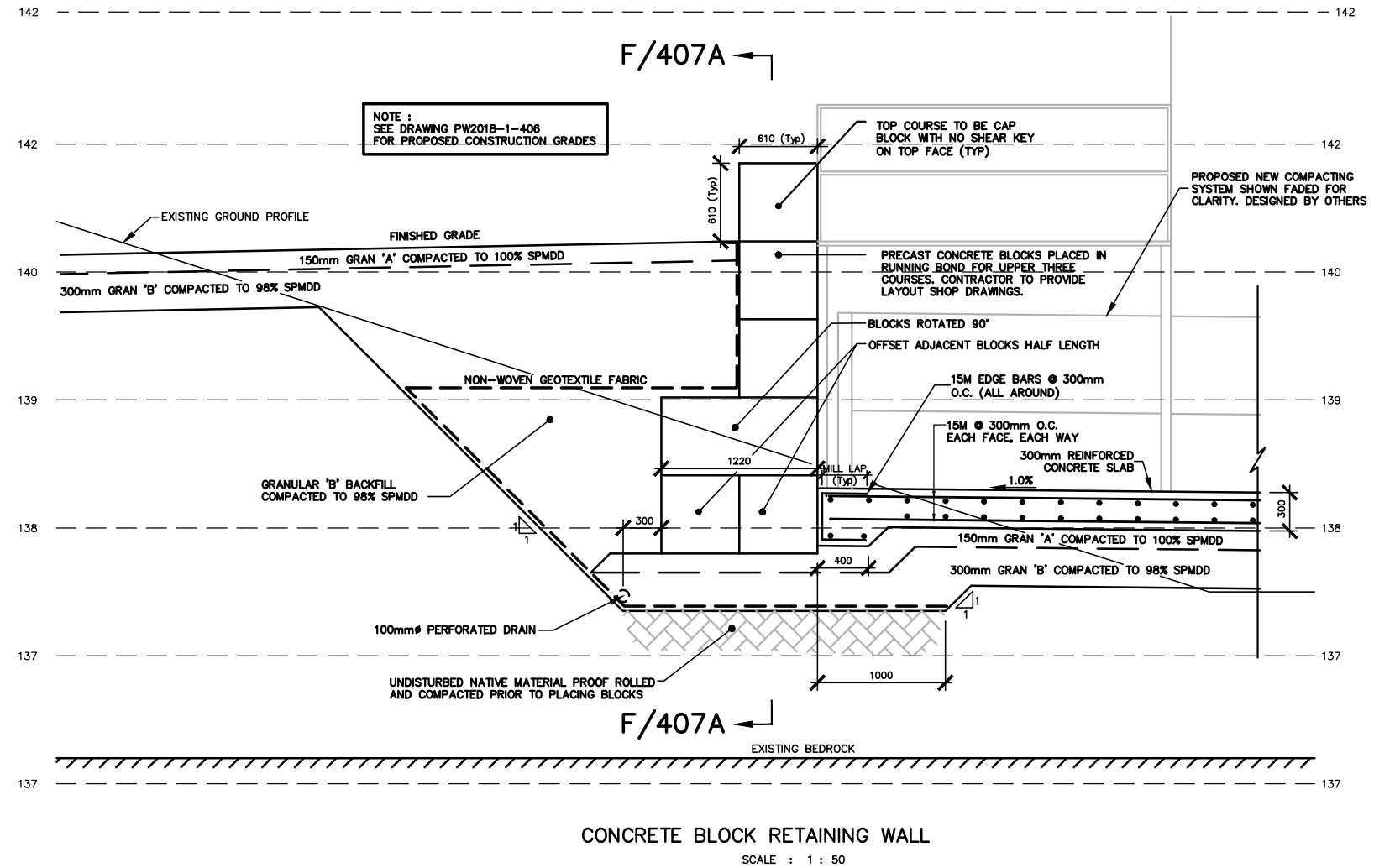
BACKFILL

- 1.0 THE BACKFILL SHALL NOT BE PLACED IN A FROZEN STATE OR MIXED WITH SNOW. BOTH THE NATURAL SUBSOIL AND COMPACTED BACKFILL MUST BE PROTECTED FROM FROST. NO BACKFILL SHALL BE PLACED ON FROZEN GROUND. ALL MATERIALS WITHIN THE AREA DAMAGED BY FROST ACTION SHALL BE REMOVED AND REPLACED WITH NON-FROZEN COMPACTED SAND AND GRAVEL, AT NO COST TO THE OWNER.
 2.0 ALL BACKFILL SHALL BE FREE OF ANY ORGANIC MATERIALS OR CLAYS.
 3.0 PLACE BACKFILL SIMULTANEOUSLY ON BOTH SIDES OF WALLS, GRADE BEAMS AND BURIED STRUCTURES TO AVOID UNBALANCED LOADING.
 4.0 BASE FOR SLABS ON GRADE SHALL INCLUDE A MINIMUM OF 150mm OF GRANULAR 'A'.

COMPACTION

- 1.0 STRUCTURAL FILL SHALL BE PLACED IN LIFTS AND COMPACTED TO A DENSITY NOT LESS THAN 100% STANDARD PROCTOR DRY DENSITY (SPDD) FOR GRANULAR 'A' AND 98% SPDD FOR GRANULAR 'B'.
 2.0 ALL BACKFILL MATERIAL SHALL BE COMPACTED IMMEDIATELY AFTER PLACING. FILL SHALL BE COMPACTED AND SHAPED TO ENSURE DRAINAGE AWAY FROM THE WORK AREA, BEFORE THE END OF ANY SHIFT.
 3.0 THE MAXIMUM LIFT THICKNESS SHALL BE NO GREATER THAN 300mm FOR GRANULAR 'B' AND 200mm FOR GRANULAR 'A' MATERIAL.
 4.0 EACH LIFT SHALL BE TESTED FOR COMPACTION.

STRUCTURAL NOTES AND DETAIL



CONCRETE BLOCK RETAINING WALL

SCALE : 1 : 50



4 HUGHSON STREET SOUTH, SUITE 300
 HAMILTON (ONTARIO) CANADA L8N 5Z1
 TEL: 905-529-4414 | FAX: 905-521-2689 | WWW.WSPGROUP.COM

TOWNSHIP OF
 RIDEAU LAKES

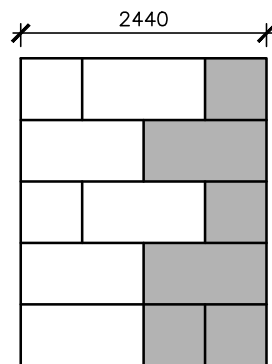
CONCRETE BLOCK RETAINING WALL
 STRUCTURAL NOTES AND DETAIL

PORTLAND
 WASTE DISPOSAL SITE

DWN BY: TCG DATE: APRIL 25, 2019
 CHK BY: CRH SCALE: SEE BAR SCALE
 TOWNSHIP OF RIDEAU LAKES
 DRAWING NO. PW2018-1 - 407

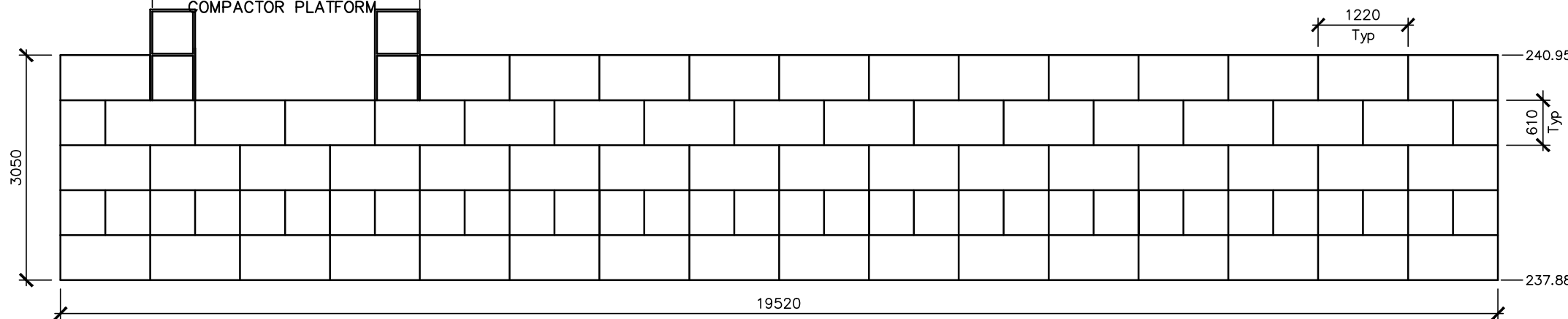
DRAWING
 407

LEFT SIDE

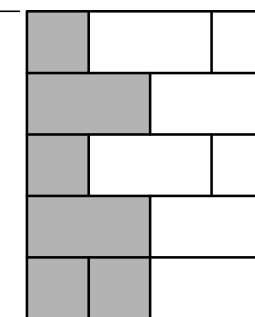


3660
 PROTECTIVE RAILING REQUIRED
 IF OPENING IS WIDER THAN
 COMPACTOR PLATFORM

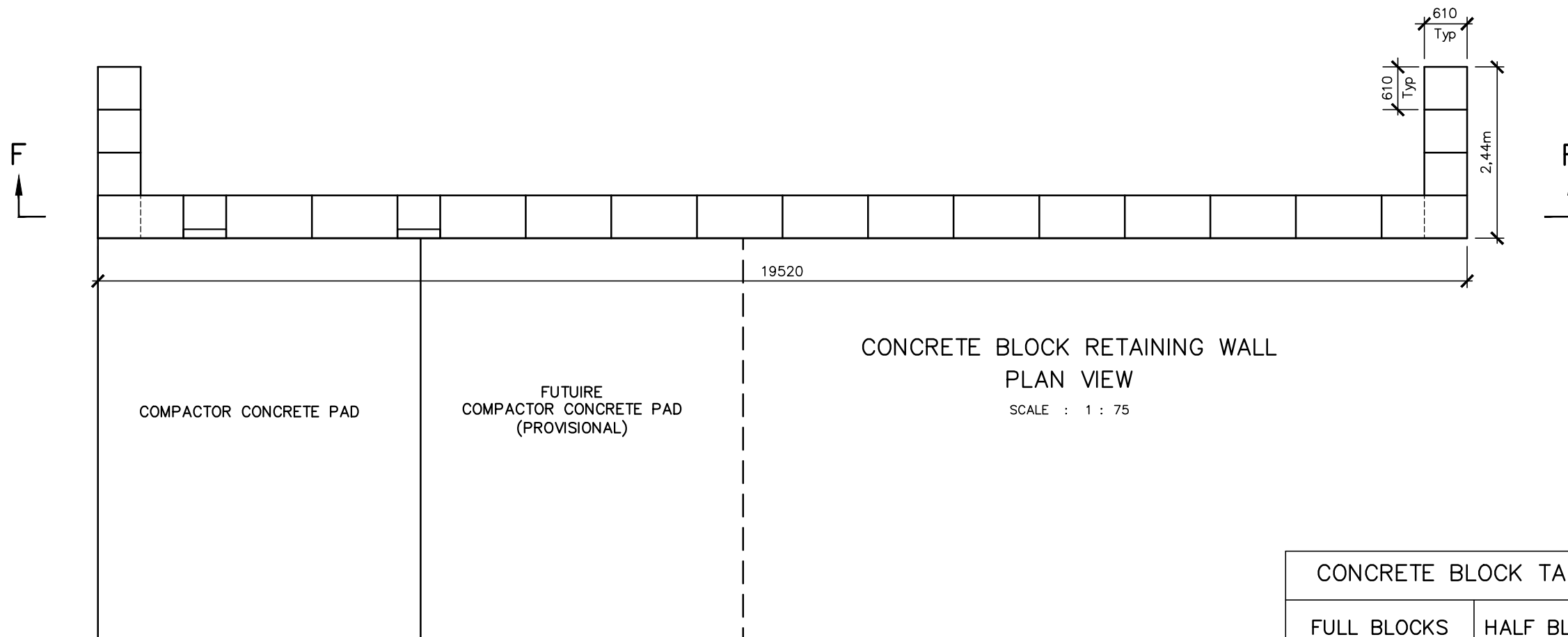
FRONT VIEW



RIGHT SIDE



SECTION **F**
 SCALE : 1 : 75



CONCRETE BLOCK RETAINING WALL
 PLAN VIEW

SCALE : 1 : 75

CONCRETE BLOCK TABLE	
FULL BLOCKS	HALF BLOCKS
118	4

G:\2017\17-02714 Rideau Lakes Portland Tmefor Station\DRAWINGS\DESIGN\MARCH\2019\PW2018-1-407A.dwg Apr 30, 2019 - 7:11am



4 HUGHSON STREET SOUTH, SUITE 300
 HAMILTON ONTARIO CANADA L8N 2R2
 TEL: 905-529-4414 | FAX: 905-521-2899 | WWW.WSPGROUP.COM

TOWNSHIP OF
 RIDEAU LAKES

CONCRETE BLOCK RETAINING WALL
 CHANGE ORDER 1

PORTLAND
 WASTE DISPOSAL SITE

DWN BY: TCG DATE: APRIL 25, 2019
 CHK BY: CRH SCALE: SEE BAR SCALE
 TOWNSHIP OF RIDEAU LAKES
 DRAWING NO. PW2018-1 - 407A

DRAWING
 407A