## **UTILITY LEGEND**

	TRANSFORMER
	TRANSFORMER C/W CONCRETE WINGS
HSG	HYDRO SWITCHGEAR
НМН	HYDRO MANHOLE
	BELL PEDESTAL
GLB	BELL GRADE LEVEL BOX (I=600mm, w=1200mm, d=750mm) C/W 1.5 x 3.0m easement
FC	BELL FIBER CABINET (I=1200mm, w=750mm, d=500mm)
CSP	BELL CENTRAL SPLITTING POINTS (I=1175mm, w=1200mm, d=500mm)
	ROGERS PEDESTAL
$\boxtimes$	ROGERS VAULT (I=1000mm, w=1000mm, d=1200mm) C/W 1m x 2m easement
P30 <b>○</b> ──	STREET LIGHT
D	STREET LIGHT DISCONNECT
— <b> </b>	STREET LIGHT GROUNDING
——————————————————————————————————————	JOINT UTILITY TRENCH
———н——	HYDRO CABLE AND DUCTS
———В———	BELL CABLE
ВВ	BELL DUCTS
T	ROGERS CABLE
TT	ROGERS DUCTS
G	GAS
s	STREET LIGHT CABLE
<u> </u>	UTILITY DROP LOCATIONS
<u>10-DUCTS</u> 6-H	CONCRETE ENCASED DUCT BANK C/W NUMBER OF DUCTS
4-T	COMMUNITY MAILBOX

## SEDIMENT EROSION LEGEND

	HEAVY DUTY SILT FENCE
	SNOW FENCE
₩	STRAW BALE CHECK DAM
1670 THE SEC.	STRAW BALE CHECK DAM WITH FILTER CLOTH
	ROCK CHECK DAM
	SEDIMENT SACK PLACED UNDER EXISTING CB COVER
	TEMPORARY MUD MAT 0.15m THICK 50mm CLEAR STONE ON NON WOVEN FILTER CLOTH

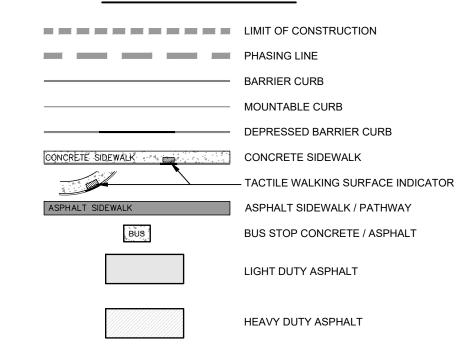
PROPOSED TREE LOCATION

ROOT MANAGEMENT BARRIER

# **GRADING LEGEND**

0.5%	PROPOSED DITCH C/W FLOW DIRECTION AND SLOPE
1.3%	SLOPE C/W FLOW DIRECTION
	MAJOR OVERLAND FLOW ROUTE
× 104.62	PROPOSED SPOT GRADE
×104.40 (s)	PROPOSED SWALE GRADE
×104.50 (S)HP	PROPOSED SWALE HIGH POINT GRADE
104.60 103.59 ×	LOT CORNER GRADE C/W EXISTING GRADE
	FULL STATIC PONDING GRADE
103.50	RETAINING WALL C/W TOP OF WALL AND GRASS GRAD
بليليك	TERRACING 3:1 MAXIMUM UNLESS NOTED OTHERWISE
<b>₩</b>	PRESSURE REDUCING VALVE
F.FL. 96.32 T.FND. 95.96 U.S.F. 93.36 (3 RISERS) M.U.S.F M.G.G.	FINISHED FLOOR ELEVATION TOP OF FOUNDATION ELEVATION UNDERSIDE OF FOOTING ELEVATION NUMBER OF RISER FROM GARAGE GRADE MINIMUM UNDERSIDE OF FOOTING (Based on the higher of the sewer obverts, or hydraulic grade line) MINIMUM GARAGE GRADE
WU	WALKUP UNIT
<u> </u>	WALKOUT UNIT
NS	NON-STANDARD FOUNDATION (Frost cover not provided for standard unit)
BS	BACKSPLIT UNIT (1.5m frost cover on footings)
————F————F	NOISE BARRIER LOCATION
FFF	NOISE BARRIER GATE
	RIP-RAP

## GENERAL LEGEND



### SERVICING LEGEND

SANITARY MANHOLE

O MH118A

200mmØ SAN	SANITARY SEWER
MH109	STORM MANHOLE
825mmØ STM	STORM SEWER - LESS THAN 900Ø
900mmØ STM	STORM SEWER - 900Ø AND GREATER
200Ø WATERMAIN	WATERMAIN
CB100 T/G 104.10	STREET CATCHBASIN C/W TOP OF GRATE
CICB101	CURB INLET CATCHBASIN C/W GUTTER GRADE
G/G 104.25 DCB100	DOUBLE CATCHBASIN C/W TOP OF GRATE
T/G 104.10 DCICB101	DOUBLE CURB INLET CATCHBASIN C/W GUTTER GRADE
G/G 104.25 DI101 T/G 103.59	DITCH INLET MANHOLE C/W TOP OF GRATE
CBMH101	CATCHBASIN MANHOLE C/W TOP OF GRATE
T/G 103.59 RYCB T/G 104.35	REAR YARD CATCHBASIN IN ROAD CONNECTING STRUCTURE C/W SOLID GRATE
<del>- 0</del> T/G 104.35 NV 103.35	REAR YARD "TEE" CATCHBASIN (300Ø) C/W TOP OF GRATE AND INVERT OUT
GT/G 104.50 INV 103.50	REAR YARD "END" CATCHBASIN (300Ø) C/W TOP OF GRATE AND INVERT OUT
T/G 104.35 INV 103.35	REAR YARD "CUSTOM ANGLED " CATCHBASIN (450Ø) C/W TOP OF GRATE AND INVERT OUT
T/G 104.35 TNV 103.35	REAR YARD "THREE WAY" CATCHBASIN (450Ø) C/W TOP OF GRATE AND INVERT OUT
	PERFORATED REAR YARD SUBDRAIN
300mmØ CSP	CSP CULVERT C/W DIAMETER
<b>⊗</b> <sup>V&amp;VB</sup>	VALVE AND VALVE BOX
<b>⊚</b> V&VC	VALVE AND VALVE CHAMBER
<b>→</b> □	PARK VALVE CHAMBER C/W SERVICE POST
◆ HYD 104.35	FIRE HYDRANT C/W BOTTOM OF FLANGE ELEVATION
200Ø WM RED 150Ø WM	WATERMAIN REDUCER
2 VBENDS	VERTICAL BEND LOCATION
<b>&gt;</b>	SIAMESE CONNECTION (IF REQUIRED)
M	METER (IF REQUIRED)
(M) (RM)	REMOTE METER (IF REQUIRED)
(A)	WATERMAIN IDENTIFICATION (IF REQUIRED)
1	PIPE CROSSING IDENTIFICATION (IF REQUIRED)
$\triangleleft$	SINGLE SERVICE LOCATION
$\triangleleft$	DOUBLE SERVICE LOCATION
BH 12 102.00	INFERRED REFUSAL (SEE GEOTECHNICAL REPORT)
HGL 101.79	100 YEAR STORM HYDRAULIC GRADE LINE AT MANHOLE
USF 101.79	UNDERSIDE OF FOOTING ELEVATION
	OLAY OF ALIN OF MED ANATEDMAIN TOFNOLL

## CROSSING SCHEDULE

- 250mmØ STORM SEWER OVER 200mm SANITARY SEWER CLEARANCE 0.255m (INSULATION REQUIRED)
- 200mmØ SANITARY SEWER OVER 375mmØ STORM SEWER CLEARANCE 0.765m
- 375mmØ STORM SEWER UNDER 50mmØ WATER SERVICE CLEARANCE 0.250m (INSULATION REQUIRED)

	Station	Description	Finished Grade	Top of Watermain	Watermain Cover	As Built Watermain	
4	0+000.00`	CONNECT TO EXISTING 200mmØ WITH 50mmø TVS	104.50	101.69	2.81		
	0+004.70	11 1/4 BEND	104.42	102.02	2.40		
	0+010.94	-	104.40	102.25	2.15		INSULATE PER W2
	0+011.57	50V&VB	104.39	101.99	2.40		
	0+020	-	103.41	101.01	2.40		
	0+031.81	45 BEND	103.16	100.76	2.40		
	0+033.95	45 BEND	103.05	100.65	2.40		
В	0+036.98	50mmg SERVICE CONNECTION	102.92	100.52	2.40		

CLAY SEAL IN SEWER / WATERMAIN TRENCH

### NOTES:

- 1. ALL MATERIALS AND CONSTRUCTION IS TO BE IN ACCORDANCE WITH THE CURRENT CITY OF OTTAWA STANDARD DRAWINGS & SPECIFICATIONS OR OPSD/OPSS IF CITY DRAWINGS AND SPECIFICATIONS DO NOT
- 2. THE POSITION OF UNDERGROUND AND ABOVEGROUND SERVICE, UTILITIES AND STRUCUTRES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH SERVICE, UTILITIES AND STRUCTURES IS NOT GUARENTEED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING SERVICES AND UTILITIES PRIOR TO CONSTRUCTION.
- 3. THE CONTRACTOR SHALL REPORT ALL CONFLICTS, DISCOVERIES OF ERROR AND DESCREPENCIES TO THE ENGINEER.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT AND ASSUME RESPONSIBILITY FOR ALL UTILITIES WHETHER OR NOT SHOW ON THESE DRAWINGS.
- 5. FOR GEOTECHNICAL INFORMATION REFER TO GEOTECHNICAL REPORT PG6571-1 DATED MARCH 5, 2023 PREPARED BY PATERSON GROUP.
- 6. FOR GEODETIC BENCHMARK AND GEOMETRIC LAYOUT OF STREET AND LOTS, REFER TO TOPOGRAPHICAL SURVEY AND PLAN OF SUBDIVISION PREPARED BY STANTEC GEOMATICS LTD. BENCHMARK BASED ON

CAN--NET VIRTUAL REFERENCE SYSTEM NETWORK.

- 7. FOR SITE PLAN INFORMATION, REFER TO SITE PLAN PREPARED BY TURNER FLEISCHER ARCHITECTS INC.
- 8. THESE DRAWINGS ARE NOT TO BE SCALED OR USED FOR LAYOUT PURPOSES 9. ROADWAY SECTIONS REQUIRING GRADE RAISE TO PROPOSED SUB GRADE LEVEL TO BE FILLED WITH ACCEPTABLE NATIVE EARTH BORROW OR IMPORTED OPSS SELECTED SUBGRADE MATERIAL IF NATIVE

MATERIAL IS DEFICIENT AS PER RECOMMENDATION OF GEOTECHNICAL ENGINEER.

- 10. IN AREAS WHERE EXISTING GROUND IS BELOW THE PROPOSED ELEVATION OF SEWER AND WATERMAINS, GRADE RAISING AND FILLING IS TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. AS PER CITY GUIDELINES ALL WATERMAINS IN FILL AREAS ARE TO BE TIED WITH RESTRAINING JOINTS AND THRUST BLOCKS.
- 11. THE CONTRACTOR SHALL IMPLEMENT THE EROSION AND SEDIMENT CONTROL PLAN PRIOR TO THE COMMENCEMENT OF ANY SITE CONSTRUCTION. ALL EROSION AND SEDIMENT CONTRAL MEASURES SHALL BE INSTALLED TO THE SATISFACTION OF THE ENGINEER OR ANY REGULATORY AGENCY. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL VEGETATION IS ESTABLISH OR UNTIL THE
- START OF A SUBSEQUENT PHASE. 12. CONTRACTORS SHALL BE RESPONSIBLE FOR KEEPING CLEAN ALL ROADS WHICH BECOME COVERED IN DUST, DEBRIS AND/OR MUD AS A RESULT OF ITS CONSTRUCTION OPERATIONS.
- 13. UNLESS SPECIFICALLY NOTED OTHERWISE, PIPE MATERIALS SHALL BE AS FOLLOWS; -WATERMAINS TO BE PVC DR18 -SANITARY SEWER TO BE PVC DR35 -PERFORATED STORM SEWERS IN REAR YARDS AND LANDSCAPE AREAS TO BE HDPE -STORM SEWERS 375MM DIAMETER AND LESS TO BE PVC DR35 -STORM SEWERS 450MM DIAMETER AND GREATER TO BE CONCRETE CLASS 65-D
- 14. ALL CONNECTIONS TO EXISTING WATERMAINS ARE TO BE COMPLETED BY CITY FORCES. CONTRACTOR IS TO EXCAVATE, BACKFILL, COMPACT AND REINSTATE.
- 15. ANY WATERMAIN WITH LESS THAN 2.4M, AND ANY SEWER WITH LESS THAN 2.0M DEPTH OF COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR AS APPROVED BY THE ENGINEER.
- 16. ALL STUBBED SEWERS SHALL HAVE PRE-MANUFACTURED CAPS INSTALLED.

**APPROVED** 

PAVEMENT STRUCTURE:

- SUPERPAVE 12.5-FC2 ASPHALTIC CONCRETE - OPSS GRANULAR "A" CRUSHED STONE

SUBGRADE - EITHER FILL, INSITU SILTY CLAY OR SAND/CRUSHED STONE MATERIAL PLACED OVER IN SITU SOIL

- SUPERPAVE 12.5-FC2 ASPHALTIC CONCRETE

- SUPERPAVE 19.0 ASPHALTIC CONCRETE

SUBGRADE - EITHER FILL, INSITU SILTY CLAY OR SAND/CRUSHED STONE MATERIAL PLACED OVER IN SITU SOIL

REMOVALS DETAIL N.T.S.

400mm - OPSS GRANULAR "B" TYPE II CRUSHED STONE

150mm - OPSS GRANULAR "A" CRUSHED STONE 450mm - OPSS GRANULAR "B" TYPE II CRUSHED STONE

LIGHT DUTY:

REMOVALS LEGEND:

\_ \_ \_ CONCRETE CURB/SIDEWALK TO BE REMOVED

RELOCATED

REMOVE EXISTING STREETLIGHT BASE

EXISTING STREETLIGHT TO BE

EXISTING LIGHT DUTY PAVEMENT STRUCTURE TO BE REMOVED AND REPLACED WITH HEAVY DUTY

EXISTING ASPHALT TO BE REMOVED

EXISTING TREES TO BE REMOVED

PAVEMENT STRUCTURE

- 17. ALL LEADS FOR STREET CATCHBASIN'S AND CURB INLET CATCHBASIN'S CONNECTED TO MAIN SHALL BE 200MMØ PVC DR35 @ MIN 2% SLOPE UNLESS NOTED OTHERWISE. ALL LEADS FOR RYCB'S CONNECTED TO
- MAIN SHALL BE 200MMØ PVC DR35 @ MIN 1% SLOPE UNLESS NOTED OTHERWISE. 18. INLET CONTROL DEVICES SHALL BE INSTALLED PRIOR TO COMPLETING THE ROAD BASE (GRANULAR A).
- 19. EACH BUILDING SHALL BE EQUIPPED WITH A SANITARY AND STORM SEWER BACKWATER VALVE AND CLEAN-OUT ON ITS PRIMARY SERVICE, AS PER ONTARIO BUILDING CODE REQUIREMENTS (BY OTHERS).
- 20. PRESSURE REDUCING VALVE MAY BE REQUIRED INSIDE BUILDING. BUILDING CONTRACTOR TO REFER TO MECHANICAL ENGINEERING DRAWINGS.

21. EXISTING SEWER RUNS EXMH1A - EXMH2A AND EXMH1 - EXMH2, TO BE CCTV'D PRE-CONSTRUCTION.

CLIENT

YONGE ST, SUITE 500

COPYRIGHT

This drawing has been prepared solely for the intended use, thus any reproduction or distribution for any purpose other than authorized by IBI Group is forbidden. Written dimensions shall have precedence over scaled dimensions. Contractors shall verify and be responsible for all dimensions and conditions on the job, and IBI Group shall be informed of any variations from the dimensions and conditions and the design of the state of conditions shown on the drawing. Shop drawings shall be submitted to IBI Group for general conformance before proceeding with fabrication.

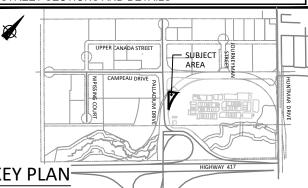
**RIOCAN REIT** 

**RIOCAN YONGE EGLINTON CENTER, 2300** 

#### IBI Group Professional Services (Canada) Inc. is a member of the IBI Group of companies

ISSUE	S	
No.	DESCRIPTION	DATE
1	ISSUED FOR COORDINATION	2023-03-06
2	ISSUED FOR SPA	2023-03-15
3	REVISED PER CLIENT COMMENTS	2023-04-24
4	ISSUED FOR BUILDING PERMIT	2023-05-12
5	REVISED PER CITY COMMENTS	2023-05-31
6	REVISED PER CITY COMMENTS	2023-07-18
7	REVISED PER CITY COMMENTS	2023-08-02
8	MUNICIPAL ADDRESS UPDATED	2023-08-25
9		
10		

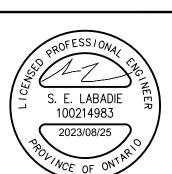
SEE 010, 011, 012 FOR NOTES, LEGEND, CB TABLE, STREET SECTIONS AND DETAILS



CONSULTANTS

By Allison Hamlin at 1:55 pm, Sep 19, 2023

**ALLISON HAMLIN** MANAGER (A), DEVELOPMENT REVIEW WEST PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT DEPARTMENT, CITY OF OTTAWA



IBI GROUP 400 – 333 Preston Street Ottawa ON K1S 5N4 Canada tel 613 225 1311 fax 613 225 9868 ibigroup.com

PROJECT

S.E.L.

CHICK-FIL-A

3000 PALLADIUM DRIVE

PROJECT NO: 141991 DRAWN BY: D.P.S.

J.I.M. PROJECT MGR: APPROVED BY: S.E.L.

CHECKED BY:

SHEET TITLE GENERAL NOTES LEGEND AND CB DATA TABLE

SHEET NUMBER C-010

8

ISSUE

D07-12-23-0030

Š.

CITY PLAN No. 18996