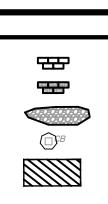
UTILITY LEGEND

	TRANSFORMER	• MH118A
	TRANSFORMER C/W CONCRETE WINGS	
HSG	HYDRO SWITCHGEAR	^{МН109} О МН118
НМН	HYDRO MANHOLE	825mmø STM
\bigcirc	BELL PEDESTAL	900mmø STM
GLB	BELL GRADE LEVEL BOX (I=600mm, w=1200mm, d=750mm) C/W 1.5 x 3.0m easement	200Ø WATERMAIN
FC	BELL FIBER CABINET (I=1200mm, w=750mm, d=500mm)	CB100 T/G 104.10
CSP	BELL CENTRAL SPLITTING POINTS (I=1175mm, w=1200mm, d=500mm)	CICB101 G/G 104.25
	ROGERS PEDESTAL	DCB100 T/G 104.10
\boxtimes	ROGERS VAULT (I=1000mm, w=1000mm, d=1200mm) C/W 1m x 2m easement	DCICB101 G/G 104.25
P30 →	STREET LIGHT	СВМН100 Т/G 103.59
	STREET LIGHT DISCONNECT	CBMH101 T/G 103.59
 ŀ	STREET LIGHT GROUNDING	■ RYCB T/G 104.35
н/в/т/g/s	JOINT UTILITY TRENCH	
ннн	HYDRO CABLE AND DUCTS	_ T ∕G 104.35 INV 103.35
————В-————	BELL CABLE	9T/G 104.50 NV 103.50
BB	BELL DUCTS	
T	ROGERS CABLE	LT/G 104.35 INV 103.35
TT	ROGERS DUCTS	L T/G 104.35
G	GAS	
S	STREET LIGHT CABLE	300mmø CSP
<u> </u>	UTILITY DROP LOCATIONS	
		® ^{V&VC}
<u>10–DUCTS</u> 6–H 4–T	CONCRETE ENCASED DUCT BANK C/W NUMBER OF DUCTS	♦ HYD 104.35
	COMMUNITY MAILBOX	✓ 104.35 200Ø WM RED 150Ø WM
	PROPOSED TREE LOCATION	2 VBENDS
	ROOT MANAGEMENT BARRIER	· · · · · · · · · · · · · · · · · · ·
(\mathbf{I})		\checkmark
_		BH 12 102.00

SEDIMENT EROSION LEGEND



HEAVY DUTY SILT FENCE SNOW FENCE STRAW BALE CHECK DAM 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

GENERAL LEGEND

BUS

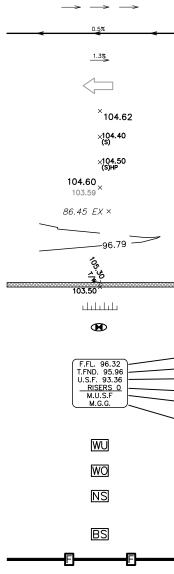
LIMIT OF CONSTRUCTION PHASING LINE BARRIER CURB MOUNTABLE CURB DEPRESSED BARRIER CURB CONCRETE SIDEWALK —— TACTILE WALKING SURFACE INDICATOR ASPHALT SIDEWALK / PATHWAY BUS STOP CONCRETE / ASPHALT



<u>HGL</u> 101.79 S/T

108 102.40

<u>HGL</u> 101.79



ING LEGEND

	SANITARY MANHOLE
-	SANITARY SEWER
	STORM MANHOLE
-	STORM SEWER - LESS THAN 900Ø
=	STORM SEWER - 900Ø AND GREATER
-	WATERMAIN
-	STREET CATCHBASIN C/W TOP OF GRATE
-	CURB INLET CATCHBASIN C/W GUTTER GRADE
=	DOUBLE CATCHBASIN C/W TOP OF GRATE
-	DITCH INLET CATCHBASIN C/W GUTTER GRADE
-	CATCHBASIN MANHOLE C/W TOP OF GRATE
-	DITCH INLET MANHOLE C/W TOP OF GRATE
	REAR YARD CATCHBASIN IN ROAD CONNECTING STRUCTURE C/W SOLID GRATE
	REAR YARD "TEE" CATCHBASIN (300Ø) C/W TOP OF GRATE AND INVERT OUT
	REAR YARD "END" CATCHBASIN (300Ø) C/W TOP OF GRATE AND INVERT OUT
	REAR YARD "CUSTOM ANGLED " CATCHBASIN (450Ø) C/W TOP OF GRATE AND INVERT OUT
	REAR YARD "THREE WAY" CATCHBASIN (450Ø) C/W TOP OF GRATE AND INVERT OUT
	PERFORATED REAR YARD SUBDRAIN
	CSP CULVERT C/W DIAMETER
	VALVE AND VALVE BOX
	VALVE AND VALVE CHAMBER
	FIRE HYDRANT C/W BOTTOM OF FLANGE ELEVATION
-	WATERMAIN REDUCER
-	VERTICAL BEND LOCATION
	SINGLE SERVICE LOCATION
	DOUBLE SERVICE LOCATION
	INFERRED BEDROCK (SEE GEOTECHNICAL REPORT)
	100 YEAR STORM HYDRAULIC GRADE LINE AT MANHOLE
	STRESS TEST STORM HYDRAULIC GRADE LINE AT MANHOLE
	UNDERSIDE OF FOOTING ELEVATION (WITH LOT #)

UNDERSIDE OF FOOTING ELEVATION (WITH LOT #) CLAY SEAL IN SEWER / WATERMAIN TRENCH

- PROPOSED SWALE C/W FLOW DIRECTION PROPOSED DITCH C/W FLOW DIRECTION AND SLOPE SLOPE C/W FLOW DIRECTION MAJOR OVERLAND FLOW ROUTE PROPOSED SPOT GRADE PROPOSED SWALE GRADE PROPOSED SWALE HIGH POINT GRADE LOT CORNER GRADE C/W EXISTING GRADE TIE INTO EXISTING GRADE FULL STATIC PONDING GRADE RETAINING WALL C/W TOP OF WALL AND GRASS GRADE
 - TERRACING 3:1 MAXIMUM UNLESS NOTED OTHERWISE PRESSURE REDUCING VALVE
 - FINISHED FLOOR ELEVATION
 - UNDERSIDE OF FOOTING ELEVATION - TOTAL NUMBER OF RISERS
 - MINIMUM UNDERSIDE OF FOOTING (Based on the higher of the sewer obverts, or hydraulic grade line)
 MINIMUM GARAGE GRADE
 - WALKUP UNIT
 - WALKOUT UNIT
 - NON-STANDARD FOUNDATION
 - (Frost cover not provided for standard unit)
 - BACKSPLIT UNIT (1.5m frost cover on footings)
 - NOISE FENCE LOCATION

STRUCTURE ID	STORM AREA ID	STRUCTURE	FRAME & COVER	ELEVATION		OUTLET PIPE		INLET CONTROL DEVICE				
				TOP OF GRATE	INVERT		DIAMETER		RESTRICTED FLOW			COMMENTS
					INLET	OUTLET	(mm)	ΤΥΡΕ	100yr HEAD	(I/s)	ICD TYPE	
								-				
CB4	S3	OPSD 705.010	S19	96.50		95.10	200	PVC DR35	1.500	45.00	IPEX HF	
CB4A	S3	OPSD 705.010	S19	96.50		95.10	200	PVC DR35	1.500	45.00	IPEX HF	
CB5	S 5	OPSD 705.010	S19	96.10	94.65	94.60	200	PVC DR35				Controlled @ MH6
CB5A	S 5	OPSD 705.010	S19	96.10		94.70	200	PVC DR35				Controlled @ MH6
RYCB1	R3	OPSD 705.010	S19	96.05		94.40	200	PVC DR35	1.550	35.00	IPEX HF	
RYCB2	R4	OPSD 705.010	S19	96.00		94.33	200	PVC DR35	1.570	35.00	IPEX HF	
RYCB3		OPSD 705.010	S19	96.00	94.90	94.85	250	HDPE				
MH6	S 5	OPSD 701.010	S24 &S25	96.13	94.50E 95.10W 94.50S	94.00E	200	PVC DR35	2.300	24.00	IPEX MHF	c/w solid cover
										184.00		

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NO	TES :				
			S TO BE IN ACCORDANCE WITH CIFICATIONS OR OPSD/OPSS IF		
2. THE COM MATERIA	AL AND ELEVAT	RESPONSIBLE FO	OR DETERMINING THE EXACT LO TING SERVICES AND UTILITIES AND ASSUME RESPONSIBILITY	PRIOR TO	
3. FOR GEO RESIDEN	OTECHNICAL IN	PMENT REMER A	FER TO GEOTECHNICAL INVES	TARIO REPORT	
4. FOR GEO TOPOGF	DDETIC BENCH	MARK AND GEOI /EY AND PLAN O	, PREPARED BY GOLDER ASSO METRIC LAYOUT OF STREET AN F SUBDIVISION PREPARED BY /	ID LOTS, REFER TO ANNIS O'SULLIVAN	
5. ROADWA FILLED V SUBGRA	AY SECTIONS R VITH ACCEPTAN DE MATERIAL I	EQUIRING GRAD BLE NATIVE EAR F NATIVE MATER	IN CAN-NET VIRTUAL REFEREN DE RAISE TO PROPOSED SUB G TH BORROW OR IMPORTED OP RIAL IS DEFICIENT AS PER RECO	RADE LEVEL TO BE SS SELECTED	
6. IN AREA WATERN RECOM	AINS, GRADE F IENDATIONS O AINS IN FILL A	TING GROUND IS RAISING AND FIL F THE GEOTECH	BELOW THE PROPOSED ELEV LING IS TO BE IN ACCORDANCE INICAL REPORT. AS PER CITY G TIED WITH RESTRAINING JOIN	E WITH THE GUIDELINES ALL	
7. REFER T	O DRAWING 03		Y CROSS SECTIONS.		
			EARTH WORKS BEING COMME ESTABLISHED OR UNTIL START		
CONSTR	UCTED ROAD S		PLACED AND MAINTAINED IN EX RAPS TO REMAIN AND BE MAIN CABLE).		
GEOTEX GEOTEX CATCHB	TILE SILT SACK	(IN STREET CBs I RYCBs TO REM/ EGULARLY INSP	AINED UNDER COVER OF ALL C TO REMAIN UNTIL ALL CURBS AIN UNTIL VEGETATION IS ESTA ECTED AND CLEANED, AS NEC	ARE CONSTRUCTED. ABLISHED. ALL	
11. ALL CC	NNECTIONS TO	O EXISTING WAT	ERMAINS ARE TO BE COMPLET FILL, COMPACT AND REINSTATE		
DATA TA	BLE @ MIN 2%	SLOPE. ALL LEA	CB'S CONNECTED TO MAIN SHA DS FOR RYCB'S CONNECTED TO NLESS NOTED OTHERWISE.		/ <u> </u>
14. THE CO THE DES AND AS	OMPOSITE UTIL SIGN CONCEPT SUCH SHALL N	ITY PLAN HAS BI FOR THE DEVEL	ALED OR USED FOR LAYOUT P EEN REVIEWED BY IBI GROUP F OPMENT AND FOR GENERAL A CONTRACTOR OF RESPONSIB	OR CONFORMITY TO RRANGEMENT ONLY	14 13
15. THIS D ANY WA RESPEC TO BE U THE COM	RAWING IS A CO Y THAT THE PA TIVE UTILITY PI SED AS REFER NTRACTORS RE	OMPILATION OF RTY SIGNING TH LANTS INDICATE ENCE ONLY AS F ESPONSIBILITY T	OTHER UTILITY DESIGNS AND I IIS DRAWING HAS DESIGNED O D ON THIS DRAWING. THE DRA PER REQUIREMENTS OF THE CI O ENSURE IT HAS REVIEWED T LIGHTING, BELL, CANADA POS	R APPROVED THE WING WAS PREPARED TY OF OTTAWA. IT IS HE CURRENT AND	12 11 10 9
	ATION IN ACCO		CLUDED BUT NOT MENTIONED HE REQUIREMENTS OF THE ST		8 7
WITH TH		IN OF THE CITY OF	ISFORMERS, ETS) ARE TO BE INST OTTAWA'S "GUIDELINES FOR UT		6 5
CITY OF	OTTAWA STAN	DARD W22, OR A	M COVER REQUIRES THERMAL S APPROVED BY THE ENGINEE WITH A SANITARY AND STORM	R.	4 REVISED PER CITY COMME 3 ISSUED FOR TENDER
AND CLE	EAN-OUT ON ITS	S PRIMARY SERV	E FOR KEEPING CLEAN ALL RC	NTS.	2 REVISED PER CITY COMME 1 SUBMISSION No.1 FOR CIT
COVERE	D IN DUST, DEE	BRIS AND/OR MU	D AS A RESULT OF ITS CONST	RUCTION OPERATIONS.	No. REVISIONS
					LEITRIM
ROA	DWAY S	STRUCTI	JRF		HOLDING
	ROAD :(615mm)				IBI GROU
40m 50m 150i 400	nm - SUPE mm - OPSS	RPAVE 19.0 ASP	HALTIC CONCRETE HALTIC CONCRETE CRUSHED STONE TYPE II		IBI 400 – 333 Ottawa O tel 613 22 ibigroup .
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					PROLINCE OF ONTARIO
CH INL	ET DATA	4			Drawing Title
PIPE		INLET CONT RESTRICTED	ROL DEVICE		
ТҮРЕ	100yr HEAD	FLOW	ICD TYPE	COMMENTS	
		(I/s)			Scale
VC DR35 VC DR35	1.500 1.500	45.00 45.00	IPEX HF IPEX HF	Controllad @ MUC	
VC DR35 VC DR35				Controlled @ MH6 Controlled @ MH6	 Design

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4	REVISED PER CITY COMM	ENTS	D.G.Y.	2021:09:29	
3	ISSUED FOR TENDER		D.G.Y.	2021:09:16	
2	REVISED PER CITY COMM		D.G.Y. D.G.Y.	2021:08:24 2021:05:13	
No.	REVISION		By	Date	
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