DRAWING NOTES

1.0 GENERAL

1.1 CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.

1.2 DO NOT SCALE DRAWINGS.

1.3 CONTRACTOR TO REPORT ALL DISCOVERIES OF ERRORS, OMISSIONS OR DISCREPANCIES TO THE ARCHITECT OR DESIGN ENGINEER AS APPLICABLE.

1.4 USE ONLY THE LATEST REVISED DRAWINGS OR THOSE THAT ARE MARKED "ISSUED FOR

CONSTRUCTION".

1.5 ALL CONSTRUCTION SHALL COMPLY WITH CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. 1.6 THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS AND SPECIFICATIONS. 1.7 FOR LEGAL SURVEY INFORMATION REFER TO REGISTERED PLAN FROM J.D. BARNES LTD.

1.8 REFER TO SITE PLAN BY M. DAVID BLAKELY ARCHITECTS INC.

1.9 CONTRACTOR TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES AS IDENTIFIED IN THE EROSION AND SEDIMENT CONTROL PLAN TO THE SATISFACTION OF THE CITY OF OTTAWA, PRIOR TO UNDERTAKING ANY SITE ALTERATIONS (FILLING, GRADING, REMOVAL OF VEGETATION, ETC.). DURING ALL PHASES OF THE SITE PREPARATION AND CONSTRUCTION THE MEASURES ARE TO BE MAINTAINED TO THE SATISFACTION OF THE ENGINEER AND CITY OF OTTAWA IN ACCORDANCE WITH THE BEST MANAGEMENT PRACTICES FOR FROSION AND SEDIMENT CONTROL. SHOULD ANY ADDITIONAL MEASURES BE REQUIRED TO ADDRESS FIELD CONDITIONS THEY SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER OR THE CITY OF OTTAWA. SUCH ADDITIONAL MEASURES MAY INCLUDE BUT NOT BE LIMITED TO INSTALLATION OF SEDIMENT CAPTURE FILTER SOCKS WITHIN MANHOLES AND CATCHBASINS TO PREVENT SEDIMENT FROM ENTERING THE STRUCTURE AND INSTALLATION AND MAINTENANCE OF A LIGHT DUTY SILT FENCE BARRIER AS

1.10 ALL IRON WORK ELEVATIONS SHOWN ARE APPROXIMATE AND ARE SUBJECT TO MINOR ADJUSTMENTS AS DETERMINED BY THE ENGINEER.

1.11 ALL CONCRETE CURBS AND SIDEWALKS TO CONFORM TO O.P.S. AND CONSTRUCTED TO CITY

STANDARDS. ALL ONSITE CURBS TO BE BARRIER TYPE, WITH DEPRESSIONS AS NOTED.

1.12 ALL CONCRETE SHALL BE "NORMAL PORTLAND CEMENT" IN ACCORDANCE WITH O.P.S.S. 1350 AND SHALL ACHIEVE A MINIMUM STRENGTH OF 30MPa AT 28 DAYS.

1.13 ALL CONSTRUCTION TRAFFIC TO ACCESS SITE FROM ROTARY WAY.

ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

1.14 FOR GEOTECHNICAL REPORT SEE GEOTECHNICAL INVESTIGATION BY GOLDER ASSOCIATES LTD. 1.15 CONTRACTOR TO PROTECT EXISTING INFRASTRUCTURE AND PROPERTY SUCH AS TREES, PARKING METERS, SIDEWALKS, CURBS, ASPHALT, AND STREET SIGNS FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR TO PAY THE COST TO REINSTATE OR REPLACE ANY DAMAGED INFRASTRUCTURE OR

PROPERTY TO THE SATISFACTION OF THE CITY. 1.16 THE POSITION OF POLE LINES, CONDUITS, WATERMAIN, SEWERS, AND OTHER UNDERGROUND AND ABOVEGROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED, BEFORE STARTING WORK THE CONTRACTOR SHALL INFORM ITSELF OF THE EXACT LOCATION

1.17 CONTRACTOR TO SUPPLY SUITABLE FILL MATERIAL WHERE REQUIRED TO ROUGH GRADE THE SITE. ALL IMPORTED FILL MATERIAL TO BE CERTIFIED AS ACCEPTABLE BY THE GEOTECHNICAL ENGINEER.

OF ALL SUCH UTILITIES AND STRUCTURES, SHALL PROTECT ALL UTILITIES AND STRUCTURES, AND SHALL

1.18 CONTRACTOR TO HAUL EXCESS MATERIAL OFFSITE AS NECESSARY TO GRADE SITE TO MEET THE PROPOSED GRADES. ALL EXCESS MATERIAL TO BE HAULED OFFSITE AND DISPOSED OF AT AN APPROVED DUMP SITE. SHOULD THE CONTRACTOR DISCOVER ANY HAZARDOUS MATERIAL, CONTRACTOR IS TO NOTIFY ENGINEER. ENGINEER TO DETERMINE APPROPRIATE DISPOSAL METHOD/LOCATION.

1.19 FILL MATERIAL WITHIN THE PARKING LOT AND BUILDING PAD AREAS, AND SUPPORTING BUILDING FOUNDATIONS SHALL BE COMPACTED TO 98% STANDARD MODIFIED PROCTOR DENSITY AND TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.

1.20 ALL COMPACTION METHODS TO BE PERFORMED TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER TO INCLUDE BUT NOT BE LIMITED TO THE THICKNESS OF LIFTS, AND COMPACTION EQUIPMENT

1.21 ALL DISTURBED BOULEVARDS TO BE REINSTATED WITH SOD ON 100mm TOPSOIL. 1.22 UTILITY DUCTS TO BE INSTALLED PRIOR TO ROAD BASE CONSTRUCTION.

1.23 CLAY DIKES TO BE INSTALLED WHERE INDICATED ON THE DRAWINGS OR AS APPROVED AND DIRECTED BY THE GEOTECHNICAL ENGINEER ALL IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS AND

1.24 BACKWATER VALES, PER CITY STANDARDS S14, S14.1 AND S14.2 RE TO BE INSTALLED FOR ALL STORM AND SANITARY SERVICE CONNECTIONS.

LEGEND:

2.1 ALL SANITARY SEWER MAINS TO BE CSA CERTIFIED, BELL AND SPIGOT TYPE. ONLY FACTORY FITTINGS TO BE USED. SEWER TO BE INSTALLED AS PER OSPD 1005.01. SANITARY SEWER MATERIALS TO BE: 250mm@ AND SMALLER - PVC DR 35

2.2 ALL SANITARY MAINTENANCE HOLES TO BE 1.2m DIAMETER AS PER CITY OF OTTAWA STANDARDS COMPLETE WITH BENCHING, RUNGS, FRAME AND COVER, DROP PIPES AND LANDINGS WHERE NEEDED. 2.3 SANITARY MANHOLE COVERS TO BE CITY OF OTTAWA STD. S25 (MOD. OPSD. 401.020). SANITARY

2.4 SANITARY SEWER LEAKAGE TEST AND CCTV INSPECTION SHALL BE COMPLETED AS PER CITY SPECIFICATIONS PRIOR TO INSTALLATION OF BASE COURSE ASPHALT

MANHOLE COVER TO BE CLOSED COVER TYPE, AS PER CITY STANDARD S24

SANITARY MANHOLE

CATCHBASIN c/w TOP OF GRATE

REAR YARD "END" CATCHBASIN

HYDRANT c/w BOTTOM OF FLANGE ELEVATION

C/W TOP OF GRATE 300Ø)

VALVE AND VALVE BOX

VALVE AND CHAMBER

DEPRESSED BARRIER CURB AS PER SC1.1

BARRIER CURB AS PER SC1.1

SIAMESE CONNECTION (IF REQUIRED)

METER

REMOTE METER

PRESSURE REDUCING VALVE

2.5 ANY SANITARY SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22 OR AS APPROVED BY THE ENGINEER

2.6 CONNECTION TO THE EXISTING SANITARY SEWER TO BE INCLUDED IN THE COST FOR SANITARY SEWER INSTALLATION. THIS INCLUDES REINSTATEMENT OF ROAD CUTS TO CITY STANDARDS.

2.7 ALL SANITARY CONNECTION TO INCLUDE BACKWATER VALVE TYPE 1 PER CITY STANDARD S14.1

3.1 ALL STORM SEWERS TO BE CSA CERTIFIED, BELL AND SPIGOT TYPE. ALL STORM SEWERS TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS ONLY FACTORY FITTINGS TO BE USED. STORM SEWER MATERIALS TO BE : 375mm@ AND

SMALLER - PVC DR 35 - 450mmØ AND LARGER - 100-D REINFORCED CONCRETE. UNLESS NOTED OTHERWISE 3.2 ALL STORM MAINTENANCE HOLES TO BE SIZED IN ACCORDANCE WITH THE PLANS AND AS PER CITY OF OTTAWA STANDARDS COMPLETE WITH BENCHING, RUNGS, AND FRAME AND COVER.

3.3 STORM MH COVERS TO BE OPEN TYPE, AS PER CITY STANDARD S24, FRAMES TO BE PER CITY OF OTTAWA STD. S25. CONTRACTOR TO INSTALL FILTER FABRIC UNDER STORM MH COVER UNTIL SODDING IS COMPLETE.

3.4 STORM MAINTENANCE HOLES TO BE OPSD, SIZE AS SPECIFIED, TAPER TOP.

3.5 ALL CATCH BASINS TO BE AS PER OPSD 705.010, FRAME & FISH TYPE GRATE AS PER CITY OF OTTAWA STD. S19.1. 3.6 3m 150mm DIAMETER SOCK-WRAPPED PERFORATED PVC SUBDRAINS TO BE INSTALLED ALL CB'S. TO EXTEND PARALLEL TO CURB IN CBS ADJACENT TO CURB AND IN 4 DIRECTIONS FOR CBS IN CENTER OF PARKING LOT. SUBDRAINS TO

3.7 ANY STORM SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR AS APPROVED BY THE ENGINEER.

3.8 CONNECTION TO THE EXISTING STORM SEWER TO BE INCLUDED IN THE COST FOR STORM SEWER INSTALLATION. THIS INCLUDES REINSTATEMENT OF ROAD CUT TO CITY STANDARDS.

3.9 CONTRACTOR TO PROVIDE IPEX-TEMPEST MHF ICD'S SHOP DRAWINGS, OR EQUIVALENT, FOR ENGINEERS REVIEW PRIOR

3.10 ALL STORM CONNECTION TO INCLUDE FOUNDATION BACKWATER VALVE TYPE 1 PER CITY STANDARD S14.1

3.11 LANDSCAPE SUBDRAIN AND APPURTENANCES TO BE INSTALLED PER CITY OF OTTAWA STANDARDS INCLUDING BUT NOT LIMITED TO S29, S30, S31

4.1 ALL WATERMAINS 100mm@ OR GREATER TO BE PVC DR 18. LESS THAN 100mm @ TO BE COPPER OR APPROVED FOLIAL WITH MINIMUM COVER OF 2.4m AND INSTALLED PER CITY OF OTTAWA STANDARDS. ALL DOMESTIC WATER SERVICES ARE TO BE 25mmØ.

4.2 THRUST BLOCKS TO BE INSTALLED AT ALL BENDS, TEES, AND CAPS ALL AS PER OPSD 1103.01 AND 1103.02.

4.3 CONTRACTOR TO CONDUCT PRESSURE AND LEAKAGE TESTING OF ALL WATERMAINS AND DISINFECT AND CHLORINATE ALL WATERMAINS TO THE SATISFACTION OF M.O.E. AND THE CITY OF OTTAWA.

4.5 ALL COMPONENTS OF THE WATER DISTRIBUTION SYSTEM SHALL BE CATHODICALLY PROTECTED AS PER CITY OF

4.4 TRACER WIRE TO BE INSTALLED ALONG THE FULL LENGTH OF WATERMAIN AND ATTACHED TO EACH MAIN STOP AS PER

4.6 ALL VALVES & VALVE BOXES AND CHAMBERS, HYDRANTS, AND HYDRANT VALVES AND ASSEMBLIES SHALL BE INSTALLED

4.7 ANY WATERMAIN WITH LESS THAN 2.4m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD

4.8 CONTRACTOR IS RESPONSIBLE FOR ACQUIRING THE WATER PERMIT FROM THE CITY OF OTTAWA AND PAYMENT OF ANY FEES ASSOCIATED WITH SECURING THE WATER PERMIT. OWNER IS RESPONSIBLE FOR REIMBURSING THE CONTRACTOR FOR THE ACTUAL COST OF ACQUIRING THE WATER PERMIT.

4.9 CONNECTION TO EXISTING WATERMAIN TO BE INCLUDED IN THE COST FOR THE WATERMAIN INSTALLATION. THIS COST

INCLUDES REINSTATEMENT OF ROAD CUTS TO CITY STANDARDS. 4.10 ALL WATERMAIN CROSSINGS TO BE COMPLETED AS PER CITY OF OTTAWA STANDARDS W25 AND W25.2

5.0 PARKING LOT AND WORK IN PUBLIC RIGHTS OF WAY

5.1 CONTRACTOR TO REINSTATE ROAD CUTS PER CITY OF OTTAWA STANDARD R-10.

5.2 THE CONTRACTOR SHALL PREPARE A TRAFFIC MANAGEMENT PLAN FOR REVIEW AND APPROVAL BY THE CITY OF OTTAWA. CONTRACTOR TO MAINTAIN TRAFFIC FLOW DURING THE ENTIRE CONSTRUCTION PERIOD. MAINTENANCE OF ROAD CUTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PROVISION OF FLAGMEN, DETOURS AS NECESSARY, BARRICADES AND SIGNS TO THE FULL SATISFACTION OF THE ENGINEER AND ROAD AUTHORITY SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

5.3 CONTRACTOR TO PREPARE SUBGRADE, INCLUDING PROOFROLLING, TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER PRIOR TO THE COMMENCEMENT OF PLACEMENT OF GRANULAR B MATERIAL.

5.4 FILL TO BE PLACED AND COMPACTED PER THE GEOTECHNICAL REPORT REQUIREMENTS.

SPECIFIED IN THE GEOTECHNICAL REPORT AND SHOWN ON THE PLANS.

EXISTING UTILITIES

EXISTING DUCT BANK

SLOPE C/W FLOW DIRECTION

PROPOSED SPOT GRADE

PROPOSED SWALE GRADE

TIE INTO EXISTING GRADE

TOP OF RETAINING WALL

FULL STATIC PONDING GRADE

PROPOSED SWALE HIGH POINT

LOT CORNER GRADE C/W EXISTING GROUND

PROPOSED BOTTOM OF RETAINING WALL

MAJOR OVERLAND FLOW ROUTE

5.5 CONTRACTOR TO SUPPLY PLACE AND COMPACT GRANULAR B MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOETCHNICAL ENGINEER, CONTRACTOR TO PROVIDE ENGINEER WITH SAMPLES OF GRANULAR B MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL ENGINEER THAT THE MATERIAL MEETS THE GRADATION REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.

5.6 GRANULAR A MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL ENGINEER OF GRANULAR B

5.8 CONTRACTOR TO SUPPLY PLACE AND COMPACT ASPHALT MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER, CONTRACTOR TO PROVIDE ENGINEER WITH SAMPLES OF ASPHALT MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL ENGINEER THAT THE MATERIAL MEETS THE REQUIREMENTS SPECIFIED IN

5.7 ASPHALT MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL ENGINEER OF GRANULAR A

5.9 CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING LINE AND GRADE IN ACCORDANCE WITH THE PLANS, AND FOR

PROVIDING THE ENGINEER WITH VERIFICATION PRIOR TO PLACEMENT. 5.10 DITCHES AND CULVERTS DISTURBED DURING ARE TO BE REINSTATED TO THEIR ORIGINAL CONDITION AND FLOWLINE

5.11 PAVEMENT STRUCTURE (MATERIAL TYPES AND THICKNESSES) FOR HEAVY DUTY AND LIGHT DUTY AREAS TO BE AS

STM STRUCTURE TABLE						
NAME	RIM ELEV.	INVERT IN	INVERT IN AS-BUILT	INVERT OUT	INVERT OUT AS-BUILT	DESCRIPTION
CBMH10	104.65	SW102.170 NE102.170		SE102.045		1200Ø OPSD 701.01
CBMH11	104.65	SE102.270		NE102.150		1200Ø OPSD 701.01
MH1	104.96	S102.650		NE102.400		1200Ø OPSD 701.01
MH2	105.01	SW102.276 SE102.800 NE102.327		NW102.127		1200Ø OPSD 701.01
МН3	104.98	SE101.750 SW101.890		NE101.690		1200Ø OPSD 701.01
MH4	104.75	NW101.996		NE101.936		1200Ø OPSD 701.01
MH5	104.70	SW101.619		NW101.450		1200Ø OPSD 701.01
MH6	104.84	SE101.324		NW100.989		1200Ø OPSD 701.01
MH7	104.65	SE100.938 SW100.568		NE100.568		1200Ø OPSD 701.01
MH8	104.68	NW102.000 SE103.029		NE101.900		1200Ø OPSD 701.01
MH12	104.75	SE102.370		NE102.270		1200Ø OPSD 701.01
MH13	104.94	NE102.507		SW102.382		1200Ø OPSD 701.01
MH14	104.89	SW102.600		SE102.500		1200Ø OPSD 701.01
XMH100	106.17			NE101.170		1200Ø OPSD 701.01
XMH101	106.78	SW100.925		NE100.650		1200Ø OPSD 701.01
XMH102	105.82	SW100.490				1200Ø OPSD 701.010

		SAI	N STRUC	TURE TAB	BLE	
NAME	RIM ELEV.	INVERT IN	INVERT IN AS-BUILT	INVERT OUT	INVERT OUT AS-BUILT	DESCRIPTION
MH1A	105.17	SW101.908		NW101.848		1200Ø OPSD 701.01
MH2A	105.16	SW101.889		SE101.829		1200Ø OPSD 701.01
мнза	104.93	SW100.841		NW100.781		1200Ø OPSD 701.01
MH4A	104.85	SE100.657 SW102.170		NW100.637		1200Ø OPSD 701.01
MH5A	104.69	SW100.391 SE100.541		NE100.391		1200Ø OPSD 701.01
МН6А	104.99	SE102.532		NE102.432		1200Ø OPSD 701.01
MH7A	104.79	NE102.570		SE102.510		1200Ø OPSD 701.01
МН8А	104.81	NW102.389		NE102.329		1200Ø OPSD 701.01
МН9А	104.97	NW102.518		SW102.458		1200Ø OPSD 701.01
MH10A	104.70	NE102.199		NW102.139		1200Ø OPSD 701.01
MH11A	104.88	SE101.974 NE102.015		NW101.954		1200Ø OPSD 701.01
MH12A	104.78	SE101.431		NE101.391		1200Ø OPSD 701.01
MH13A	104.80	SW101.236 SE101.276		NE101.216		1200Ø OPSD 701.0°
MH14A	104.98	SW101.142 SE101.102		NW101.082		1200Ø OPSD 701.0°
MH15A	104.99	NE102.410		NW102.356		1200Ø OPSD 701.01
MH16A	104.85	SW101.901		NW101.841		1200Ø OPSD 701.0°
MH17A	105.01	SE102.326		SW102.268		1200Ø OPSD 701.01
MH18A	103.59	SW102.085 SE101.002		NE100.942		1200Ø OPSD 701.01
MH24A	103.67	SW101.349		NE101.319		1200Ø OPSD 701.01
MH25A	103.38	SE101.574 NW101.574		SW101.514		1200Ø OPSD 701.0°
MH26A	103.59	SE102.081 NE101.383		NW101.323		1200Ø OPSD 701.0°
XMH1O1A	100.82			NE100.600		1200Ø OPSD 701.0°
XMH102A	100.45	SW100.230				1200Ø OPSD 701.0°

PAVEMENT STRUCTURE ** CAR ONLY PARKING AREAS:

50mm WEAR COURSE - HL-3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE 150mm BASE - OPSS GRANULARGRANULAR "A" CRUSHED STONE 300mm SUBBASE - OPSS GRANULAR "B" TYPE II SUBGRADE - IN SITU SOIL, OR OPSS GRANULAR "B" TYPE I OR II MATERIAL PLACED OVER IN SITU SOIL

HEAVY TRUCK PARKING AREAS AND ACCESS LANES:

40mm WEAR COURSE - HL-3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE 50mm BINDER COURSE - HL-8 OR SUPERPAVE 19.0 ASPHALTIC CONCRETE 150mm BASE COURSE - OPSS GRANULAR "A" CRUSHED STONE

450mm SUBBASE - OPSS GRANULAR "B" TYPE II SUBGRADE - IN SITU SOIL, OR OPSS GRANULAR "B" TYPE I OR II MATERIAL PLACED OVER IN SITU SOIL

** REFER TO GEOTECHNICAL REPORT BY GOLDER ASSOCIATES LTD.

CROSSING SCHEDULE

	CROSSING SCHEDULE					
(1)	450 mm ø STM	0.230 m	CLEARANCE OVER	200 mm ø SAN		
$\overline{2}$	300 mm ø W/M	0.576 m	CLEARANCE OVER	450 mm ø STM		
3	300 mm ø W/M	1.331 m	CLEARANCE OVER	200 mm ø SAN		
4	250 mm ø W/M	0.345 m	CLEARANCE OVER	200 mm ø SAN		
⑤	200 mm ø SAN	0.312 m	CLEARANCE OVER	450 mm ø STM		
6	250 mm ø W/M	0.849 m	CLEARANCE OVER	450 mm ø STM		
②	250 mm ø W/M	0.325 m	CLEARANCE OVER	450 mm ø STM		
(8)	200 mm ø SAN	0.283 m	CLEARANCE OVER	450 mm ø STM		
9	250 mm ø W/M	1.033 m	CLEARANCE OVER	200 mm ø STM		
10	100 mm ø W/M	0.804 m		200 mm ø SAN		
(1)	200 mm ø STM	0.804 m		200 mm ø STM		
(12)	450 mm ø STM	0.324 m		200 mm ø SAN		
(13)	450 mm ø STM	0.317 m		200 mm ø SAN		
14	250 mm ø W/M	1.261 m		200 mm ø SAN		
(15)	250 mm ø W/M			450 mm ø STM		
(16)		0.698 m	CLEARANCE OVER	200 mm ø SAN		
	200 mm ø STM	1.429 m		200 mm ø SAN		
(18)	200 mm ø STM	0.369 m		250 mm ø W/M		
19/	250 mm ø STM	2.044 m		200 mm ø SAN		
	100 mm ø W/M	0.828 m		200 mm ø SAN		
	250 mm ø STM	0.515 m	CLEARANCE OVER	100 mm ø W/M		
	250 mm ø STM 250 mm ø STM	0.675 m 0.461 m	CLEARANCE OVER	200 mm ø SAN 450 mm ø STM		
	200 mm ø STM	1.185 m	CLEARANCE OVER	200 mm ø SAN		
	200 mm ø STM	0.369 m	CLEARANCE OVER	250 mm ø W/M		
	200 mm ø STM	1.344 m	CLEARANCE OVER	200 mm ø SAN		
易	200 mm ø STM	0.532 m	CLEARANCE OVER	250 mm ø W/M		
	100 mm ø W/M	0.312 m	CLEARANCE OVER	200 mm ø SAN		
29	100 mm ø W/M	0.339 m		450 mm ø STM		
3	200 mm ø STM	1.106 m		200 mm ø SAN		
<u> </u>	200 mm ø STM	0.351 m		250 mm ø W/M		
32	250 mm ø W/M	0.750 m		200 mm ø SAN		
33	250 mm ø W/M	0.311 m				
<u>34</u>	200 mm ø STM	0.472 m	CLEARANCE OVER	200 mm ø SAN		

100 mm ø W/M 0.305 m CLEARANCE OVER 200 mm ø SAN

APPROVED By Sean Moore at 9:32 am, Oct 20, 2021

SEAN MOORE (A) MANAGER, SOUTH BRANCH

Finished Top of As Built CLIENT Description **GLENVIEW HOMES** 0+005.45 104 79 102.39 0+009.03 104.85 102.45 **VB 250mm** 104.84 102.44 0+011.36 0+013.81 104.84 102.44 V-BEND 250mm 0+014.11 104.84 103.00 V-BEND 250mm 0+017.21 104.84 103.00 104 83 103.00 V-BEND 250mm 190 O'Connor St., 11th floor, Ottawa, ON 0+019.33 104.68 102.28 V-BEND 250mm 613-748-3700 0+038.11 104.77 102.37 0+038.71 V-BEND 250mm 104.77 102.37 0+039.01 V-BEND 250mm COPYRIGHT 0+041.21 V-BEND 250mm This drawing has been prepared solely for the intended use, thus any evaduction 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 0+041.51 104.75 102.35 0+048.17 45° BEND 250mm 104.70 102.30 104 69 102.29 0+050 17 22.5° BEND 250mm the job, and IBI Group shall be informed of any variations from the dimensions and conditions shown on the drawing. Shop drawings shall be submitted to IBI Group for general conformance before proceeding with fabrication. 0+064.35 104.80 102.40 22.5° BEND 250mm 0+066.85 104.98 102.58 45° BEND 250mm 0+069.10 105.12 102.72 TEE 250mm IBI Group Professional Services (Canada) Inc. 0+070.46 REDUCER 250mm-100mm is a member of the IBI Group of companies 0+076.57 105.09 102.69 SERVICE TEE ISSUES 105.12 102.72 0+081.25 SERVICE TE DESCRIPTION DATE 0+094.86 105.09 0+099.54 105.09 102.69 SERVICE TEE SUBMITTED FOR ZBA AND SPA 2020-09-1 E 0+114.90 TEE 100mm 105.09 102.69 REVISED PER CITY COMMENTS 2020-12-04 0+124.27 105.12 102.72 SERVICE TEE REVISED PER CITY COMMENTS 2021-01-25 0+128.95 105.18 SERVICE TE 102.78 0+142.56 UPDATED CMB 2021-01-28 SERVICE TEE 0+145.34 105.19 102.79 V-BEND 100mm 5 REMOVED TWSI 2021-10-06 0+145.64 105.20 103.20 V-BEND 100mm 0+147.24 105.19 103.20 0+147.84 103.20 0+148.14 105.16 102.76 V-BEND 100mm 105.18 102.78 105.14 102.74 0+154.30 45° BEND 100mm 0+157.28 45° BEND 100mm 105 14 102.74 0+157.43 V-BEND 100mm 0+157.73 105.14 103.05 V-BEND 100mm 0+159.90 105.14 103.05 V-BEND 100mm 0+160.20 105.14 102.74 V-BEND 105.00 102.60 0+170.52 REDUCER 100mm-250mm 105.01 0+172.01 105.02 102.62 105.07 102.67 HYDANT TEE 0+173.97 EY PLAN 0+181.84 SERVICE TEE 105.08 102.68 0+188.06 105.07 102.67 0+194.68 CROSS 250mm 105.02 102.62 0+195.28 104.98 102.58 V-BEND 250mm 0+195.58 V-BEND 250mm 0+196.53 104.89 102.65 0+197.68 VB 250mm 104.98 102.65 0+198.58 104.94 V-BEND 250mm 0+198.88 V-BEND 250mm TVS 250mm H 0+228.66 104.62 102.22 B 0+000.00 104.84 103.00 104.81 103.00 0+002.41 REDUCER 250mm-50mm 0+002.99 104.80 103.00 V-BEND 50mm 0+003.29 104.80 102.40 CONSULTANTS 0+017.73 SERVICE TEE 105.05 102.65 0+023.94 SERVICE TEE 105.05 Project Coordinator 0+032.66 105 05 102 65 0+034.26 105.04 102.64 Terrain Development Consulting REDUCER 50mm-25mm 0+038.88 105.05 102.65 Architect: M. David Blakely Architects Inc. 0+002.98 REDUCER 250mm-100mm 104.74 102.34 .andscape: 0+017.73 104.99 102.59 SERVICE TEE James B. Lennox & Assoc. Inc. 0+023.94 SERVICE TEE 104.99 102.59 Surveyor: 0+028.38 REDUCER 100mm-50mr 104 99 J.D.Barnes Ltd. 0+032.65 SERVICE TEE 0+038.88 Geotech: 104.99 102.59 SERVICE TEE Golder Associates Ltd. 0+053.18 BEND 50mm 104.98 102.58 0+053.92 104.99 102.59 BEND 50mm OWNER: 0+061.46 104.99 102.59 SERVICE TEE Glenview Homes 0+063.13 REDUCER 50mm-25mm 104.89 102.49 190 O'Conner St, 11th Floor 0+067.68 104.96 102.56 Ottawa, On K2P 1T6 613-748-3700 0+000.60 V-BEND 250mm 0+000.90 104.95 102.87 0+004.72 V-BEND 250mm 104.83 102.87 0+015.10 HY DA NT TEE 104.76 102.36 K 0+018.80 104.98 102.58 0+022.42 REDUCER 250mm-100mm 105.03 0+026.67 SERVICE TEE 0+032.89 105.01 102.61 0+036.31 REDUCER 100mm-50mm 105.02 102.62 0+037.11 BEND 50mm 104.99 102.59 BFND 50mm 0+053.06 SERVICE TE 105.04 102.64 105.05 102.65 0+059.28 SERVICE TE 0+067.99 0+070.33 REDUCER 50mm-25mm 105.05 102.65 0+074.21 105.05 102.65 K 0+000.00 104.98 102.58 ΓΕΕ 250mm 105.00 102.60 105.01 102.61 0+014.59 0+020.81 SERVICE TE 0+029.52 105.00 102.60 0+035.74 104.99 102.59 0+040.35 HYDANT TEE 250mn 104.97 0+049.86 105.05 102.65 SERVICE TEE 0+056.08 SERVICE TE 105.05 102.65 105.07 102.67 105.07 102.67 0+064.80 SERVICE TE 0+071.01 0+081.62 V-BEND 250mm 0+081.92 105.07 102.80 0+085.06 105.07 102.80 V-BEND 250mm 0+085.36 V-BEND 250mm F 0+087.30 105.09 102.69 105.09 102.69 M 0+016.21 TFF 100mm 0+002.55 REDUCER 100mm-50mm 0+015.36 SERVICE TEE 105.15 102.75 0+020.04 105.15 102.75 SERVICE TEE 0+036.22 REDUCER 50mm-25mm IBI GROUP N 0+038 33 105.15 102.75 SERVICE Suite 400 – 333 Preston Street M 0+000.00 Ottawa ON K1S 5N4 Canada 0+002.68 REDUCER 100mm-50mm tel 613 225 1311 / 613 241 3300 fax 613 225 9868 0+009.36 105.23 102.83 SERVICE TEE ____ibigroup.com 0+014.04 105.23 102.83 105.23 102.83 105.23 102.83 0+027.65 SERVICE TE 0+029.00 PROJECT REDUCER 50mm-25mr O 0+032.33 105.23 102.83 **4639 BANK STREET** G 0+000.00 CROSS 250mm 105.02 102.62 0+001.36 REDUCER 250-50
 105.05
 102.65

 105.10
 102.70
0+016.29 SERVICE TEE 0+022.51 SERVICE TEE 105.10 102.70 105.09 102.69 0+031.22 0+033.15 4639 Bank Street REDUCER 50mm-25mr P 0+037.44 G 0+000.00 0+001.36 REDUCER 250-100 104.90 102.50 -01 125600
 105.07
 102.67

 105.18
 102.78
Q 0+019.40 T⊞ 100mm SERVICE TEE RAWN BY: CHECKED BY: 0+033.74 SERVICE TEE D.D./E.H. R.M. 0+039.72 REDUCER 100mm-50mm 104.98 102.58 0+040.33 12 BEND 50mm 104.97 PROJECT MGR: APPROVED BY: 0+041.08 BEND 50mm D.Y. 0+054.64 105.16 102.76 SERVICE TEE 0+060.86 105.18 102.78 SERVICE TEE SHEET TITLE 0+069.57 105.18 **DETAILS AND NOTES** 0+071.75 REDUCER 50mm-25mr R 0+075.79 105.14 102.74 105.07 102.67 105.17 103.20 Q 0+000.00 TFE 100mm 0+001.85 REDUCER 100mm-50mm 0+014.09 105.16 102.76 ·Ш SERVICE TEE 0+020.31 SERVICE TEE 105.18 102.78 0+029.02 105.18 102.78 105.17 102.77 SHEET NUMBER ISSUE 0+030.99 REDUCER 50mm-25mm 105.18 102.78 SERVICE

PLANNING, INFRASTRUCTURE & ECONOMIC DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

() MH_WAT DENOTES WATER MANHOLI TERRACING 3:1 MAXIMUM UNLESS NOTED OTHERWISE MOUNTABLE CURB AS PER SC1.3) MH_STM DENOTES STORM MANHOLE MH_SAN DENOTES SANITARY MANHOLE PROPOSED CONCRETE SIDEWALK PRELIMINARY ROOF DRAIN LOCATION MH_TRAF DENOTES TRAFFIC MANHOLE 200mmØ SAN SANITARY SEWER & FLOW DIRECTION TEST PITS (SEE GEOTECHNICAL REPORT) STORM SEWER & FLOW DIRECTION **CLAY DYKES PER S8** 250mmØ SUBDRAIN 2000000 WATERMAIN WATERMAIN WATERMAIN IDENTIFICATION WATERMAIN REDUCER PIPE CROSSING IDENTIFICATION 2 VBENDS VERTICAL BEND LOCATION INLET CONTROL DEVICE LOCATION

H/B/T/G

1.3%

×104.40 (S)

×104.50 (S)HP

86.45 EX ×

105.30 T/W[×]

PROTECTIVE BOLLARD CONTOUR INTERVALS ARE SHOWN AS 1.00m FOR MAJOR AND 0.25m FOR MINOR NOISE FENCE AND GATE LOCATION

HEAVY DUTY ASPHALT / FIRE ROUTE

N=NORTH S=SOUTH E=EAST W=WEST

J.D. BARNES LTD. TOPOGRAPHIC LEGEND

DENOTES CONCRETE PAD

DENOTES CHAIN LINK FENCE

DENOTES CONCRETE

DENOTES FOUNDATION

DENOTES CENTERLINE

DENOTES DIAMETER

DENOTES CURB CUT

DENOTES INVERT

DENOTES GUTTER

DENOTES BOREHOLI

DENOTES ANCHOR

☑ EL-TRANS DENOTES HYDRO TRANSFORMER

DENOTES HANDWELL

DENOTES CATCH BASIN

DENOTES HYDRO POLE

DENOTES LIGHT STANDAR

DENOTES TRAFFIC LIGHT

DENOTES FIRE HYDRAN

DENOTES WATER VALVE

DENOTES TELEPHONE JUNCTION BOX

DENOTES OVERHEAD UTILITY CABLE

DENOTES UNDERGROUND STORM SEWER

DENOTES UNDERGROUND WATER LINE

DENOTES SPOT ELEVATION

DENOTES DECIDUOUS TREE

DENOTES CONIFEROUS TREE

CONC

BRHLE

HWELL

S 0+035.24

CITY PLAN No. 18243

D07