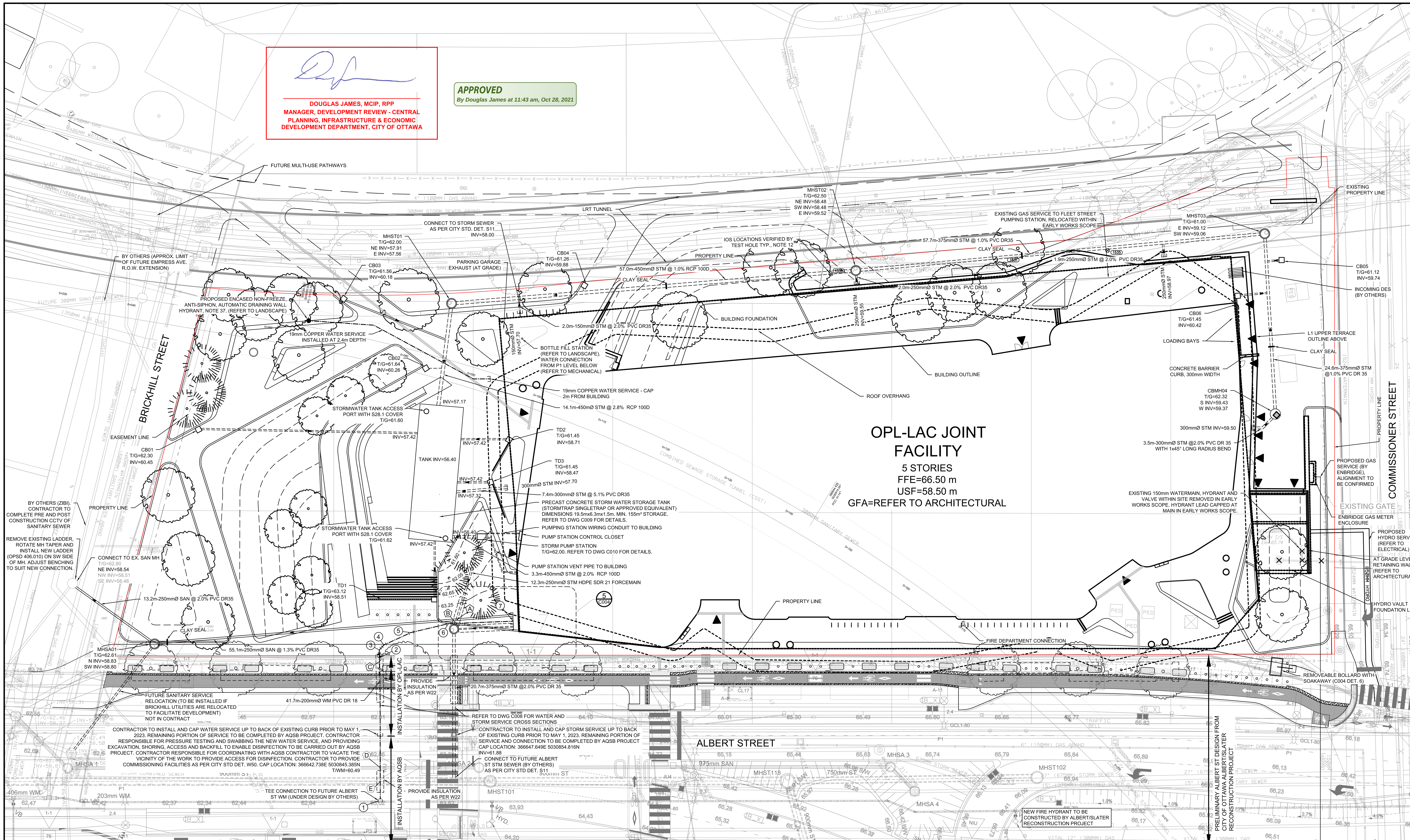

NOTES:

GENERAL

1. COORDINATES ARE IN MTM ZONE 9 (76°30' WEST LONGITUDE) NAD-83 (ORIGINAL)
2. OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA PRIOR TO STARTING CONSTRUCTION
3. SERVICES ARE TO BE CONSTRUCTED TO 1.0m FROM FACE OF BUILDING.
4. REFER TO "SITE SERVICING AND STORMWATER MANAGEMENT DESIGN BRIEF, OTTAWA PUBLIC LIBRARY - LAC JOINT FACILITY" PREPARED BY MORRISON HERSHFIELD FOR SITE SERVICING REPORT
5. REFER TO GEOTECHNICAL INVESTIGATION REPORT (NO. 19131600 DATED JUNE 18, 2020) PREPARED BY GOLDER ASSOCIATE FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT SHALL REVIEW EXCAVATIONS PRIOR TO THE PLACEMENT OF GRANULAR MATERIAL.
6. CONTRACTOR TO VERIFY ALL EXISTING UTILITY ELEVATIONS AT CONNECTION AND CROSSING LOCATIONS PRIOR TO CONSTRUCTION AND ADVISE THE ENGINEER OF ANY DISCREPANCIES.
7. UNLESS DIRECTED OTHERWISE ANY DAMAGED ASPHALT OR CURB (REGARDLESS OF WHETHER WITHIN OR EXTERNAL TO THE SITE) SHALL BE REINSTATED IN ACCORDANCE WITH CITY STD. DET. R10 AND S1.
8. UNLESS DIRECTED OTHERWISE THE CONTRACTOR SHALL REINSTATE ALL SIGNS, LIGHTING AND OTHER STREET FURNITURE DISTURBED BY THE WORK.
9. THE CONTRACTOR SHALL DEVELOP AND IMPLEMENT TRAFFIC MANAGEMENT PLANS FOR WORK IN RIGHT OF WAY IN ACCORDANCE WITH OTM BOOK 7.
10. CLAY SEALS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD DETAIL S8 AND SHALL BE INSTALLED AT 50m INTERVALS IN ALL PIPE TRENCHES. CLAY SEAL TO EXTEND FULL TRENCH WIDTH AND FROM BOTTOM OF TRENCH EXCAVATION TO UNDERSIDE OF ROAD STRUCTURE, WITH A MINIMUM THICKNESS OF 1m ALONG PIPE.
11. LOCATE AND CAP ANY EXISTING STORM, SANITARY AND WATER SERVICES AT THE PROPERTY LINE. ABANDON EXISTING SERVICES WITHIN THE R.O.W. PER STANDARD CITY OF OTTAWA DETAIL S11.4. (TYPICAL)
12. IOS TEST HOLE LOCATIONS AND ALIGNMENT BETWEEN TEST HOLES OBTAINED FROM FAIRHALL, MOFFATT AND WOODLAND SURVEY, MARCH 1 TO MARCH 4, 2021.
13. SUBMIT SHOP DRAWINGS FOR APPROVAL FOR ALL PRECAST STRUCTURE, GRATES & COVERS, TRENCH DRAINS.

SEWERS

14. ALL STORM SEWERS, SANITARY SEWERS AND CATCH BASINS LEADS SHALL BE PVC DR 35 UNLESS OTHERWISE SPECIFIED.
15. REFER TO DETAIL 1 ON DRAWING C004 FOR SEWER INSTALLATION.
22. ALL SEWER MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE 2021 EDITION OF THE CITY OF OTTAWA STANDARD SPECIFICATIONS AND STANDARD DRAWINGS. PVC PIPE TO BE CLASS 150 DR18 TO LATEST EDITION OF A.W.W.A. SPECIFICATION C900 AND CSA B137.3 LATEST AMENDMENT WITH GASKETED BELL AND SPIGOT COUPLINGS.
23. MAINTENANCE HOLES AND CATCH BASIN MAINTENANCE HOLES ON STORM SEWERS LESS THAN 900mm DIAMETER SHALL BE CONSTRUCTED WITH A 300mm SUMP. BENCHING SHALL BE INSTALLED IN MAINTENANCE HOLES ON STORM SEWERS 900mm AND ABOVE.
24. STORM SEWER MAINTENANCE HOLE COVERS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD DETAIL S24.1 ON FRAMES TO DETAIL S25.
25. CONTRACTOR SHALL MAINTAIN EXISTING SEWER FLOWS DURING CONSTRUCTION IN ACCORDANCE WITH CITY OF OTTAWA SPECIFICATIONS.
26. ALL MAINTENANCE HOLES, CATCHBASINS AND CLEANOUTS SHALL BE ADJUSTED TO POST-CONSTRUCTION GRADE.
27. CCTV INSPECTION OF ALL SEWERS SHALL BE COMPLETED AS PER CITY OF OTTAWA SPECIFICATIONS PRIOR TO THE INSTALLATION OF BASE COURSE ASPHALT.

WATERMAINS

28. REFER TO DETAIL 1 ON DRAWING C004 FOR WATERMAIN INSTALLATION.
29. ALL WATERMAIN MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE 2021 EDITION OF THE CITY OF OTTAWA STANDARD SPECIFICATIONS AND STANDARD DRAWINGS. PVC PIPE TO BE CLASS 150 DR18 TO LATEST EDITION OF A.W.W.A. SPECIFICATION C900 AND CSA B137.3 LATEST AMENDMENT WITH GASKETED BELL AND SPIGOT COUPLINGS.
30. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A WATER PERMIT AS REQUIRED FROM THE CITY OF OTTAWA, AND COMPLYING WITH ALL CITY OF OTTAWA REQUIREMENTS. THE CITY MAY REQUIRE THAT CERTAIN ACTIVITIES (E.G. VALVE OPERATION, CONNECTION OF NEW WATER SERVICE TO EXISTING WATERMAIN, DISINFECTION) BE CARRIED OUT ONLY BY CITY FORCES.
31. ALL VALVES 300mm DIAMETER AND SMALLER SHALL INCLUDE A VALVE BOX AS PER W24.
32. THE NEW WATERMAIN IS TO BE INSTALLED WITH A MINIMUM OF 2.4m COVER (INCLUDING HYDRANT LEAD). WHERE 2.4m COVER IS NOT POSSIBLE, PROVIDE INSULATION IN ACCORDANCE WITH CITY OF OTTAWA STANDARD DETAILS W22 & W23.
33. THRUST RESTRAINT SHALL BE PROVIDED BY BOTH RESTRAINING/RETAINING RINGS AND THRUST BLOCKS AT ALL DEAD END CAPS, PLUGS, VALVES, BENDS AND REDUCERS AS PER CITY OF OTTAWA STANDARD DETAILS W25.3, W25.4, W25.5 AND W25.6. ALL TEMPORARY THRUST RESTRAINTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
34. TRACER WIRE SHALL BE PROVIDED FOR ALL NEW PVC WATERMAINS IN ACCORDANCE WITH THE SPECIFICATIONS AND CITY OF OTTAWA STANDARD DETAIL W36.
35. CATHODIC PROTECTION SHALL BE PROVIDED FOR ALL NEW WATERMAINS IN ACCORDANCE WITH THE SPECIFICATIONS AND CITY OF OTTAWA STANDARD DETAILS W39, W40, W41, W42 AND W47. CATHODIC PROTECTION OF EXISTING WATERMAINS SHALL ALSO BE PROVIDED AT CONNECTIONS BETWEEN EXISTING AND NEW WATERMAINS.
36. ADJUST ALL VALVE CHAMBERS, VALVE BOXES AND HYDRANTS TO FINISHED GRADE.

UTILITY NOTE

37. REFER TO DRAWING C100 FOR UTILITY PROTECTION REQUIREMENTS.
38. THE POSITION OF POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWING, AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM. THE CONTRACTOR WILL BE RESPONSIBLE FOR SUPPORTING AND PROTECTING ANY EXISTING UTILITIES, AS REQUIRED, IN ACCORDANCE WITH THE UTILITY OWNERS' REQUIREMENTS. CONTRACTOR IS REQUIRED TO OBTAIN LOCATES, IN ADVANCE OF EXCAVATION WORK, AND FORWARD COPIES OF THE LOCATES TO THE CONSULTANT AND THE OWNER PRIOR TO EXCAVATION.
39. ALL CROSSING OF EX. UTILITIES TO BE IN ACCORDANCE WITH CITY STD. DET. S10

Consultant's Information: X:\Proj\2019\190167700-OPL-LAC Joint Facility\09. CAD\07 Sheets\190167700-Site Servicing Plan OCL2.dwg

PROPOSED WATER SERVICE TABLE

NUMBER	SURFACE ELEVATION	T/WM ELEVATION	COMMENTS
1	63.02	60.62±*	TEE CONNECTION TO FUTURE 200mmØ WATERMAIN
2	62.88	60.48±	200mmØ VALVE & VALVE BOX, W24
3	63.08	60.68±	45° BEND
4	63.08	60.68±	22.5° BEND
5	63.13	60.73±	11.25° BEND
6	63.29	60.89±	11.25° BEND
7	62.85	60.45±	CAP 1.0m FROM BUILDING

PIPE CROSSING TABLE

CROSSING	LOWER PIPE	HIGHER PIPE	CLEARENCE	SURFACE ELEVATION
A	250mmØ SAN OBV=59.64	250mmØ STM INV=62.04	2.4m±	63.53m
B	200mmØ WM OBV=60.34	250mmØ STM INV=62.15	1.81m±	63.74m
C	200mmØ WM OBV=60.48	HYDRO OTTAWA DUCTBANK INV=61.84±	1.36m±	62.88m
D	375mmØ SAN OBV=59.37	200mmØ WM INV=60.37	1.00m±	62.97m
E	900mmØ STM OBV=60.53	200mmØ WM INV=60.78	0.25m+	62.99m

TRENCH DRAIN DATA

NO.	TRENCH DRAIN WIDTH	GRATE	ELEVATION		TD CONNECTION			
			T/FRAME	LOW/INV	DIA (mm)	TYPE	LENGTH (m)	INV.
TD1	100mm	STAINLESS STEEL, ACCESSIBLE, HEEL SAFE, LIGHT DUTY (ACO 447D/448D OR APPROVED EQUIVALNT)	63.12	58.51	200	PVC DR35	8.1	57.90
TD2	100mm		61.45	58.71	200	PVC DR35	6.6	57.90
TD3	100mm		61.45	58.47	200	PVC DR35	4.4	57.50
TD4	200mm	DUCTILE IRON EDGE RAIL & GRATE, ACCESSIBLE, HEAVY DUTY	61.45	60.42	200	PVC DR35	4.1	59.20

NOTE : POLYMER CONCRETE TRENCH DRAIN WITH 2% INTERNAL SLOPE AND MATCHING CATCH BASIN, UNLESS OTHERWISE SPECIFIED.

NEW STORM STRUCTURE

STRUCTURE	STRUCTURE TYPE	COVER TYPE (NOTE 1)	TOP OF GRATE	INVERT	NORTHING	EASTING
MHST01	701.010	S24.1	62.00	57.91 (NE) 57.65 (E)	5030883.221	366592.066
MHST02	701.010	S24.1	62.50	59.52 (E) 58.48 (NE) 58.48 (SW)	5030937.162	366614.647
MHST03	701.010	S24.1	61.00	59.12 (E) 59.06 (SW)	5030991.949	366637.043
CBMH04	701.010	S28.1	62.32	59.43 (S) 59.37 (W)	5030981.363	366660.844
MHST05*	701.010	S28.1 (SEE NOTE 2)	63.43	62.14 (NE) 62.20 (NW) 62.08 (SE)	5030861.922	366633.928

NOTE 1 : STRUCTURE COVERS TO BE ORIENTED AS SHOWN ON PLAN
NOTE 2 : S28.1 COVER SPECIFIED FOR DISCHARGE MANHOLE TO PROVIDE VENTING
* INCLUDE INSULATION BETWEEN STRUCTURES AND WATERMAIN AS PER W23

NEW SANITARY STRUCTURE

STRUCTURE	STRUCTURE TYPE	COVER TYPE (NOTE 1)	TOP OF GRATE	INVERT	NORTHING	EASTING
MHSA01	701.010	S24	62.61	58.83 (N) 58.80 (SW)	5030822.618	366615.979

NOTE 1 : STRUCTURE COVERS TO BE ORIENTED AS SHOWN ON PLAN

CATCH BASIN & AREA DRAIN DATA

NO.	COVER	STRUCT.	ELEVATION		CB CONNECTION			
			T/FRAME	LOW/INV	DIA (mm)	TYPE	LENGTH (m)	INV.
CB01	C004 DET 4	C004 DET 4	62.30	61.80	200	PVC DR35	31.2	-
CB02	C004 DET 4	C004 DET 4	61.64	61.14	-		1.8	61.10
CB03	C004 DET 4	C004 DET 4	61.56	61.06	200	PVC DR35	15.4	60.75
CB04	C004 DET 4	C004 DET 4	61.26	60.76	200	PVC DR35	0.5	60.75
CB05	S19.1	705.010A	61.12	60.62	200	PVC DR35	1.6	60.59
CB06	S19.1	705.010A	61.45	60.42	200	PVC DR35	4.1	60.34

ALL CONNECTIONS TO CONCRETE SEWERS SHALL BE PER CITY STD. DET. S11.
ALL CONNECTIONS TO PVC SEWERS SHALL BE PER CITY STD. DET. S11.1.

LEGEND

- NEW STORM SEWER
- NEW SANITARY SEWER
- NEW WATERMAIN
- NEW MANHOLE
- NEW CATCH BASIN
- NEW WATER VALVE AND VALVE BOX
- NEW FIRE HYDRANT
- NEW ENTRANCE
- NEW FIRE DEPARTMENT CONNECTION
- EXISTING MANHOLE
- EXISTING CATCH BASIN
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING LIGHT STANDARD
- REMOVALS
- BOLLARD (REFER TO DWG. C004 DETAIL 6)

SCALE 1:200
HORIZONTAL
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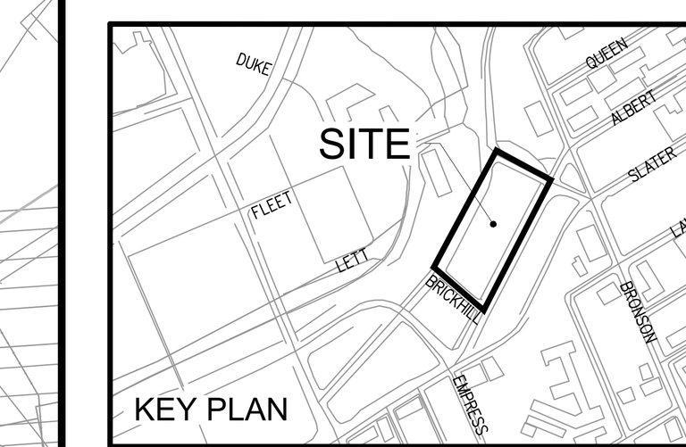
MORRISON HERSHFIELD
200-2932 BASELINE ROAD, OTTAWA, ON K2H 1B1



ISSUED

No.	Date	Description
0	10/07/19	ISSUED FOR COSTING
1	23/01/20	ISSUED FOR D.D. & COSTING
2	27/03/20	ISSUED FOR D.D. RESUBMISSION
3	27/05/20	ISSUED FOR 30% CD COSTING
4	05/06/20	ISSUED FOR SITE PLAN CONTROL
5	29/09/20	ISSUED FOR 60% CD COSTING
6	13/11/20	ISSUED FOR SITE PLAN CONTROL R1
7	18/01/21	ISSUED FOR 90% CD COSTING
8	25/02/21	ISSUED FOR 99% OWNER REVIEW
9	05/03/21	ISSUED FOR SITE PLAN CONTROL R2
10	17/08/21	ISSUED FOR SITE PLAN CONTROL R3

LICENSED PROFESSIONAL ENGINEER
J.G. FOOKES
Aug 18, 2021
PROVINCE OF ONTARIO

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OPL - LAC JOINT FACILITY

555 ALBERT ST.

OTTAWA ON
K1R 7X3

SITE SERVICING PLAN

Scale: 1:200
Project No: OCL2
Date: ##/08/21

C001

D07-12-20-007

#18176