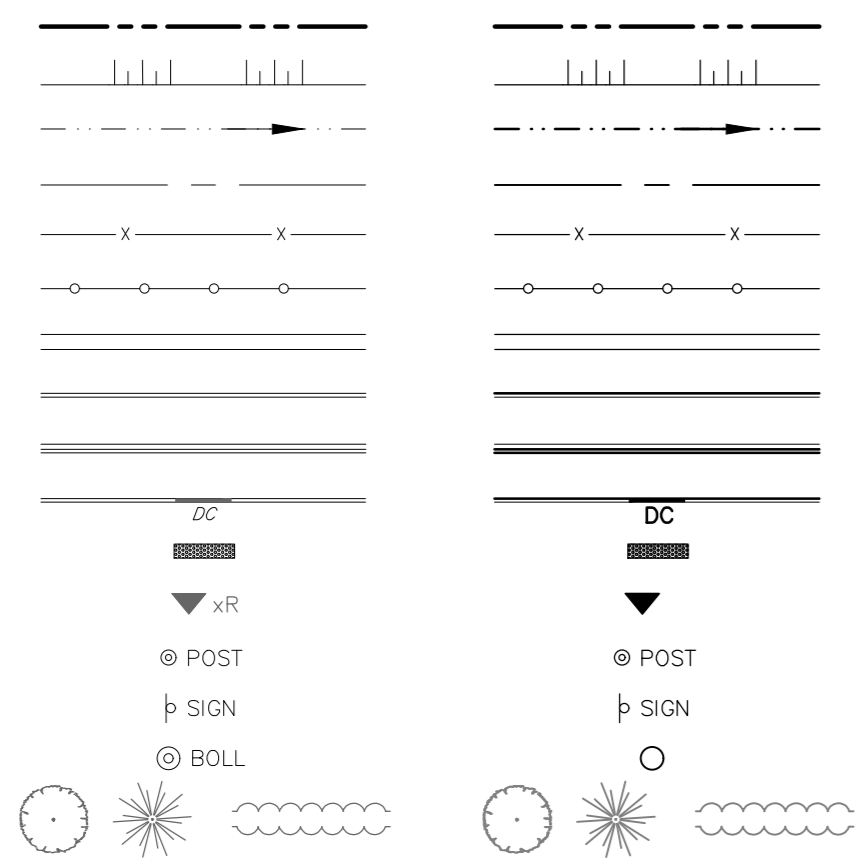


DESCRIPTION

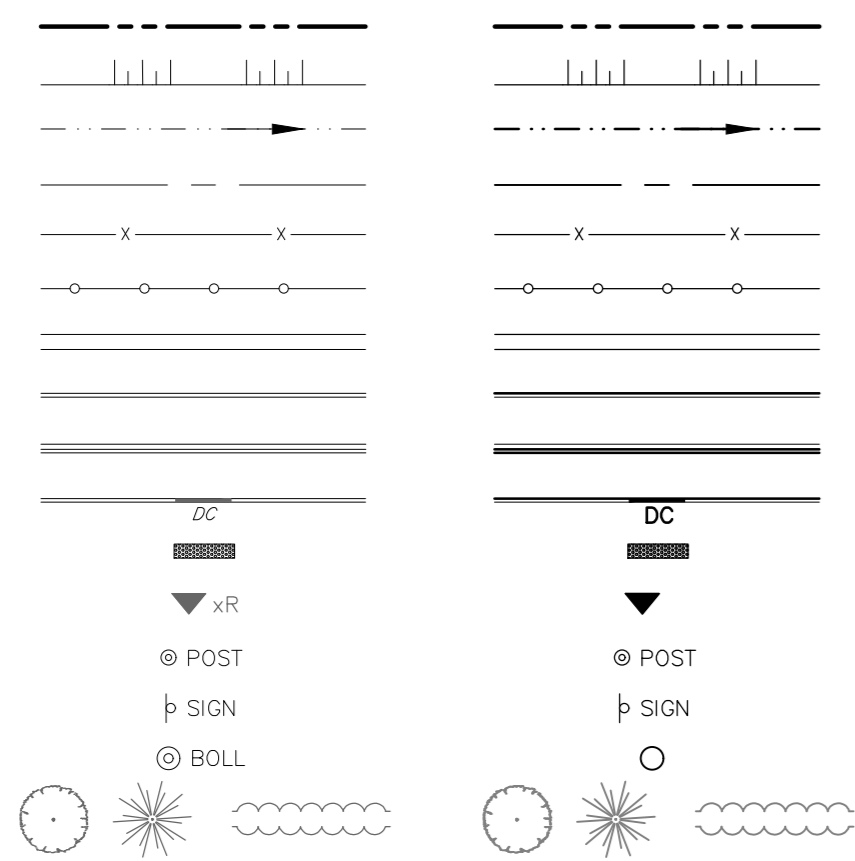
SITE FEATURES

- PROPERTY LINE
TERRACING (3:1 TYPICAL)
DITCH/SWALE AND DIRECTION OF FLOW
ROAD/ALIGNMENT
CHAINLINK FENCE
PERIMETER FENCE FOUNDED ON SONOTUBE
SIDEWALK (TYPE AS NOTED ON DRAWINGS)
BARRIER CURB (SC1.1)
MOUNTABLE CURB (SC1.3)
DEPRESSED CURB
TACTILE WALKING SURFACE INDICATOR "TWS" (SC7.3)
BUILDING ENTRY/EXIT
POST
SIGN
BOLLARD
VEGETATION

EXISTING



PROPOSED



SERVICES AND STRUCTURES

- SANITARY SEWER
COMBINATION SEWER
STORM SEWER
STORM SUBDRAIN
HI-40 THERMAL INSULATION AS PER OPSD 514.010
SANITARY MANHOLE
COMBINATION MANHOLE
STORM MANHOLE
CATCHBASIN MANHOLE
CATCHBASIN
DOUBLE CATCHBASIN
CATCHBASIN ELBOW (S30)
CATCHBASIN TEE (S31)
CURB INLET CATCHBASIN
DITCH INLET CATCHBASIN
WATERMAIN
IRRIGATION
VALVE AND VALVE BOX
VALVE AND VALVE CHAMBER
FIRE HYDRANT
SIAMISE CONNECTION
WATER METER
REMOTE WATER METER
45° BEND
22.5° BEND
11.25° BEND
TEE
REDUCER
CROSS
CURB STOP
WATER WELL

GRADING

- GROUND ELEVATION
SWALE ELEVATION
TOP OF GRATE ELEVATION
TOP OF WALL ELEVATION
BOTTOM OF WALL ELEVATION
FINISHED FLOOR ELEVATION
BASEMENT FLOOR ELEVATION
SLOPE AND DIRECTION OF FLOW
OVERLAND FLOW ROUTE ONSITE
OVERLAND FLOW ROUTE EXTERNAL

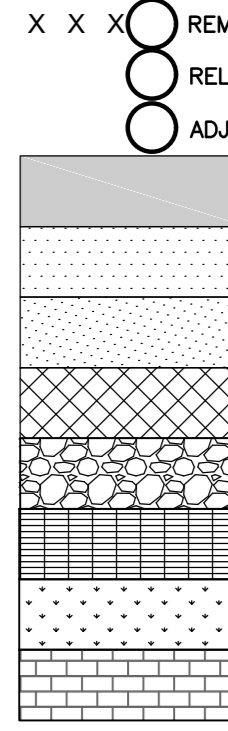
STORMWATER MANAGEMENT

- STORM DRAINAGE AREA BOUNDARY
STORM DRAINAGE AREA NUMBER
STORM DRAINAGE AREA IN HECTARES
RUN-OFF COEFFICIENT
2 YEAR PONDING AREA
100 YEAR PONDING AREA

DESCRIPTION

MISCELLANEOUS

- REMOVED
RELOCATED
ADJUSTED
LIGHT DUTY PAVEMENT
HEAVY DUTY PAVEMENT
ROAD REINSTATEMENT AS PER CITY STANDARD R10
CURB AND SIDEWALK REINSTATEMENT AS PER CITY STD. SC4
RIP-RAP AS PER OPSD 810.010
LANDSCAPE REINSTATEMENT
PROPOSED SOFT LANDSCAPING AS PER LANDSCAPE PLANS
PROPOSED CONCRETE PAVERS



GENERAL NOTES

- 1. ALL WORKS AND MATERIALS SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS), WHERE APPLICABLE.
2. THE LOCATION OF UTILITIES IS APPROXIMATE ONLY, AND THE EXACT LOCATION SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED.
3. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF EXISTING SERVICES PRIOR TO ANY CONSTRUCTION.
4. ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED AND BEAR COST OF THE SAME.
6. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE "OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS".
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION, BACKFILL AND REINSTATEMENT OF ALL AREAS DISTURBED DURING CONSTRUCTION.
8. ANY AREAS BEYOND THE LIMIT OF THE SITE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER.
9. THE CONTRACTOR SHALL COMPLY WITH THE CITY OF OTTAWA REQUIREMENTS FOR TRAFFIC CONTROL WHEN WORKING ON CITY STREETS.
10. THERE WILL BE NO SUBSTITUTION OF MATERIALS UNLESS WRITTEN APPROVAL BY THE ENGINEER HAS BEEN OBTAINED.
11. EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE.
12. THE SITE LAYOUT IS THE RESPONSIBILITY OF THE CONTRACTOR.
13. THE CONTRACTOR WILL BE RESPONSIBLE FOR ADDITIONAL BEDDING OR ADDITIONAL STRENGTH PIPE IF THE MAXIMUM TRENCH WIDTH, AS SPECIFIED BY OPSD, IS EXCEEDED.
14. ALL NECESSARY CLEARING AND GRUBBING SHALL BE COMPLETED BY THE CONTRACTOR.
15. ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT.
16. ALL BOREHOLES SHOWN ON THE DRAWINGS ARE FOR INFORMATION ONLY.
17. THE CONTRACTOR SHALL APPRAISE HIS/HERSELF OF ALL SURFACE AND SUBSURFACE CONDITIONS.
18. DO NOT CONSTRUCT USING DRAWINGS THAT ARE NOT MARKED "ISSUED FOR CONSTRUCTION".
19. FOR TOPOGRAPHICAL INFORMATION REFER TO PLAN PREPARED BY FAIRHALL MOFFAT WOODLAND LIMITED.
20. CIVIL DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, LANDSCAPE AND LEGAL DRAWINGS.
21. ALL NECESSARY CLEARING AND GRUBBING SHALL BE COMPLETED BY THE CONTRACTOR.
22. STREET LIGHTING SHALL BE TO CITY OF OTTAWA STANDARDS.
23. SANITARY SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS).
24. ALL SANITARY SEWERS SHALL BE PVC SDR 35, IPEX "RING-TITE" (OR EQUIVALENT), AS PER CSA STANDARD 8182.2 OR LATEST AMENDMENT.
25. SANITARY SEWER TRENCH AND BEDDING SHALL BE AS PER CITY OF OTTAWA STD. S6 AND S7, CLASS 'B' BEDDING UNLESS OTHERWISE NOTED.
26. ALL SANITARY LATERALS ARE TO BE PVC SDR 28, IPEX "RING-TITE" (OR EQUIVALENT).
27. SEWER BEDDING AS PER CITY STANDARD S6 & S7.
28. SANITARY SEWER MANHOLES SHALL BE BENCHED AS PER OPSD 701.021.
29. THE CONTRACTOR SHALL CONDUCT INFILTRATION/EXFILTRATION (AS PER CURRENT OPSS) TESTING ON ALL NEWLY INSTALLED SANITARY SEWERS.
30. THE CONTRACTOR SHALL CONDUCT CCTV INSPECTION OF ALL NEWLY INSTALLED SANITARY SEWERS AND EXISTING SEWERS CONNECTED TO.
31. ALL SERVICE CONNECTIONS TO BE CONSTRUCTED AS PER CITY STANDARD S11 & S11.1.
32. THE CONTRACTOR SHALL CONSTRUCT FLEXIBLE SANITARY SEWERS IN ACCORDANCE WITH OPSD 802.010 AND 802.013.
33. ALL SANITARY BUILDING DRAINS TO BE EQUIPPED WITH SANITARY BACKWATER VALVES.
34. WITHIN THE FROST ZONE, THE BACKFILL IN THE SERVICE TRENCHES SHOULD MATCH THE SOIL ON SIDES TO MINIMIZE DIFFERENTIAL FROST HEAVING.
35. MINIMUM SOIL COVER TO BE 2.1m TO PROTECT SEWERS FROM FROST DAMAGE.
36. SANITARY SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS).
37. ALL REINFORCED CONCRETE STORM SEWER PIPE SHALL BE IN ACCORDANCE WITH CSA A257.1.
38. PVC STORM SEWERS ARE TO BE SDR 35 APPROVED PER C.S.A. 8182.2 OR LATEST AMENDMENT.
39. THE CONTRACTOR SHALL CONSTRUCT FLEXIBLE STORM SEWERS IN ACCORDANCE WITH OPSD 802.010 AND 802.013.
40. SEWER BEDDING AS PER CITY STANDARD S6 & S7.
41. ALL STORM LATERALS SHALL BE PVC SDR 28, WHITE IN COLOR AND MARKED WITH A 50mm X 100mm WOODEN MARKER.
42. ALL SERVICE CONNECTIONS TO BE CONSTRUCTED AS PER CITY STANDARD S11 & S11.1.
43. WITHIN THE FROST ZONE, THE BACKFILL IN THE SERVICE TRENCHES SHOULD MATCH THE SOIL ON SIDES TO MINIMIZE DIFFERENTIAL FROST HEAVING.
44. MINIMUM SOIL COVER TO BE 2.1M TO PROTECT SEWERS FROM FROST DAMAGE.
45. ALL STORM SERVICES TO BE EQUIPPED WITH APPROVED BACKWATER VALVES.
46. STORM MANHOLE FRAME AND COVERS SHALL BE AS PER CITY OF OTTAWA STD. S24, S24.1 AND S25.
47. DROP STRUCTURES SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA SPECIFICATIONS AND OPSD 1003.01.
48. STORM SEWER MANHOLES SERVING LOCAL SEWERS LESS THAN 900MM SHALL BE CONSTRUCTED WITH A 300MM SUMP.
49. SINGLE AND DOUBLE CATCHBASINS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. S1.
50. CURB INLET TYPE CATCH BASIN (CIB) SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. S3.
51. SINGLE AND DOUBLE CATCHBASIN LEADS SHALL BE 200MM AND 250MM DIA (MIN) RESPECTIVELY.
52. ALL CATCHBASINS AND CATCHBASIN MANHOLES SHALL HAVE SUMPS WITH 300MM DEPTH.
53. CONTRACTOR SHALL ENSURE THAT CATCHBASINS ARE INSTALLED AT THE LOW POINT OF SAG CURB WORKS.
54. THE STORM SEWER CLASSES HAVE BEEN DESIGNED BASED ON BEDDING CONDITIONS SPECIFIED.
55. THE CONTRACTOR SHALL CONDUCT CCTV INSPECTION OF ALL NEWLY INSTALLED STORM SEWERS AND EXISTING SEWERS CONNECTED TO.
56. WATERMAIN MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS).
57. NO WORK SHALL COMMENCE UNLESS A CITY WATER WORKS INSPECTOR IS ON SITE.
58. ALL WATERMANS SHALL BE EQUAL TO ANWA C-900 CLASS 150, SDR 18, OR APPROVED EQUAL.
59. WATERMANS TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W17.
60. ALL PVC WATERMANS SHALL BE INSTALLED WITH A 10 GAUGE STRANDED COPPER TWU OR RWU TRACER WIRE.
61. WATER SERVICES ARE TO BE TYPE K SOFT COPPER AS PER CITY OF OTTAWA STD. W26 UNLESS OTHERWISE SPECIFIED.
62. VALVE BOXES SHALL BE INSTALLED AS PER CITY OF OTTAWA DETAIL W24.
63. ALL FIRE HYDRANTS TO BE INSTALLED AS PER CITY STANDARD W19 AND LOCATED AS PER CITY STANDARD W18 AND/OR CITY STANDARD CROSS SECTIONS.
64. ALL WATERMANS TO BE INSTALLED AT MINIMUM COVER OF 2.4m.
65. THRUST BLOCKS AND RESTRAINT AS PER CITY OF OTTAWA DWGS: W25.3 AND W25.4, W25.5 AND W25.6.
66. IF WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.
67. DISINFECTION AND TESTING OF WATERMAIN TO BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
68. WATER METERS TO BE INSTALLED AS PER W30 FOR WATER SERVICES.
69. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY CAPS, PLUGS AND BLOW-OFFS AND NOZZLES REQUIRED FOR TESTING AND DISINFECTION OF THE WATERMAIN.
70. INSULATION FOR WATERMAIN CROSSING OVER AND BELOW SEWER SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. W25.2 AND W25, RESPECTIVELY.
71. WHERE THE SEPARATION BETWEEN SERVICES AND MANHOLES IS LESS THAN 1.2m, WATER SERVICES ARE TO BE INSULATED AS PER CITY OF OTTAWA STD. W23.
72. AS PER CITY GUIDELINE, THE MINIMUM VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER / UTILITY IS 0.25M FOR CROSSING OVER THE SEWER, AS PER CITY STD W25.2.
73. MINIMUM VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER / UTILITY IS 0.50M AS PER CITY STD. W26 FOR CROSSING UNDER SEWER.
74. WHERE THE SEPARATION BETWEEN SERVICES AND MANHOLES IS LESS THAN 1.2m, WATER SERVICES ARE TO BE INSULATED AS PER CITY OF OTTAWA STD. W23.

STORM SEWER NOTES

- 1. ALL STORM SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS).
2. ALL REINFORCED CONCRETE STORM SEWER PIPE SHALL BE IN ACCORDANCE WITH CSA A257.1.
3. ALL PVC STORM SEWERS ARE TO BE SDR 35 APPROVED PER C.S.A. 8182.2 OR LATEST AMENDMENT.
4. THE CONTRACTOR SHALL CONSTRUCT FLEXIBLE STORM SEWERS IN ACCORDANCE WITH OPSD 802.010 AND 802.013.
5. SEWER BEDDING AS PER CITY STANDARD S6 & S7.
6. ALL STORM LATERALS SHALL BE PVC SDR 28, WHITE IN COLOR AND MARKED WITH A 50mm X 100mm WOODEN MARKER.
7. ALL SERVICE CONNECTIONS TO BE CONSTRUCTED AS PER CITY STANDARD S11 & S11.1.
8. WITHIN THE FROST ZONE, THE BACKFILL IN THE SERVICE TRENCHES SHOULD MATCH THE SOIL ON SIDES TO MINIMIZE DIFFERENTIAL FROST HEAVING.
9. MINIMUM SOIL COVER TO BE 2.1M TO PROTECT SEWERS FROM FROST DAMAGE.
10. ALL STORM SERVICES TO BE EQUIPPED WITH APPROVED BACKWATER VALVES.
11. STORM MANHOLE FRAME AND COVERS SHALL BE AS PER CITY OF OTTAWA STD. S24, S24.1 AND S25.
12. SAFETY PLATFORMS SHALL BE IN ACCORDANCE WITH OPSD 404.02.
13. DROP STRUCTURES SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA SPECIFICATIONS AND OPSD 1003.01.
14. STORM SEWER MANHOLES SERVING LOCAL SEWERS LESS THAN 900MM SHALL BE CONSTRUCTED WITH A 300MM SUMP.
15. SINGLE AND DOUBLE CATCHBASINS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. S1.
16. CURB INLET TYPE CATCH BASIN (CIB) SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. S3.
17. SINGLE AND DOUBLE CATCHBASIN LEADS SHALL BE 200MM AND 250MM DIA (MIN) RESPECTIVELY.
18. ALL CATCHBASINS AND CATCHBASIN MANHOLES SHALL HAVE SUMPS WITH 300MM DEPTH.
19. CONTRACTOR SHALL ENSURE THAT CATCHBASINS ARE INSTALLED AT THE LOW POINT OF SAG CURB WORKS.
20. THE STORM SEWER CLASSES HAVE BEEN DESIGNED BASED ON BEDDING CONDITIONS SPECIFIED.
21. THE CONTRACTOR SHALL CONDUCT CCTV INSPECTION OF ALL NEWLY INSTALLED STORM SEWERS AND EXISTING SEWERS CONNECTED TO.

WATERMAIN NOTES

- 1. ALL WATERMAIN MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS).
2. NO WORK SHALL COMMENCE UNLESS A CITY WATER WORKS INSPECTOR IS ON SITE.
3. ALL PVC WATERMANS SHALL BE EQUAL TO ANWA C-900 CLASS 150, SDR 18, OR APPROVED EQUAL.
4. WATERMANS TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W17.
5. ALL PVC WATERMANS SHALL BE INSTALLED WITH A 10 GAUGE STRANDED COPPER TWU OR RWU TRACER WIRE.
6. WATER SERVICES ARE TO BE TYPE K SOFT COPPER AS PER CITY OF OTTAWA STD. W26 UNLESS OTHERWISE SPECIFIED.
7. CATHODIC PROTECTION IS REQUIRED ON ALL METALLIC FITTINGS AS PER CITY OF OTTAWA STD. W40 AND W42.
8. VALVE BOXES SHALL BE INSTALLED AS PER CITY OF OTTAWA DETAIL W24.
9. ALL FIRE HYDRANTS TO BE INSTALLED AS PER CITY STANDARD W19 AND LOCATED AS PER CITY STANDARD W18 AND/OR CITY STANDARD CROSS SECTIONS.
10. ALL WATERMANS TO BE INSTALLED AT MINIMUM COVER OF 2.4m.
11. THRUST BLOCKS AND RESTRAINT AS PER CITY OF OTTAWA DWGS: W25.3 AND W25.4, W25.5 AND W25.6.
12. IF WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.
13. DISINFECTION AND TESTING OF WATERMAIN TO BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
14. WATER METERS TO BE INSTALLED AS PER W30 FOR WATER SERVICES.
15. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY CAPS, PLUGS AND BLOW-OFFS AND NOZZLES REQUIRED FOR TESTING AND DISINFECTION OF THE WATERMAIN.
16. INSULATION FOR WATERMAIN CROSSING OVER AND BELOW SEWER SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. W25.2 AND W25, RESPECTIVELY.
17. WHERE THE SEPARATION BETWEEN SERVICES AND MANHOLES IS LESS THAN 1.2m, WATER SERVICES ARE TO BE INSULATED AS PER CITY OF OTTAWA STD. W23.
18. AS PER CITY GUIDELINE, THE MINIMUM VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER / UTILITY IS 0.25M FOR CROSSING OVER THE SEWER, AS PER CITY STD W25.2.
19. MINIMUM VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER / UTILITY IS 0.50M AS PER CITY STD. W26 FOR CROSSING UNDER SEWER.
20. WHERE THE SEPARATION BETWEEN SERVICES AND MANHOLES IS LESS THAN 1.2m, WATER SERVICES ARE TO BE INSULATED AS PER CITY OF OTTAWA STD. W23.

ROADWAY SPECIFICATIONS

- 1. ALL TOPSOIL AND ORGANIC MATERIAL SHALL BE STRIPPED WITHIN THE ROAD ALLOWANCE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. CONCRETE CURB SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. SC1.1 (BARRIER CURB) AND SC1.3 (MOUNTABLE CURB).
3. ROAD SUBDRAINS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. R1.
4. PAVEMENT REINSTATEMENT FOR SERVICE AND UTILITY CUTS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. R10 AND OPSD 509.010, OPSD 310.
5. GRANULAR "A" SHALL BE PLACED TO A MINIMUM THICKNESS OF 300MM AROUND ALL STRUCTURES WITHIN PAVEMENT AREA.
6. ALL GRANULAR FOR ROADS SHALL BE COMPACTED TO A MINIMUM OF 98% STANDARD PROCTOR DENSITY.
7. ASPHALT WEAR COURSE SHALL NOT BE PLACED UNTIL THE VIDEO INSPECTION OF SEWERS & NECESSARY REPAIRS HAVE BEEN CARRIED OUT TO THE SATISFACTION OF THE ENGINEER.
8. SUB- EXCAVATE SOFT AREAS AND FILL WITH GRANULAR "B" COMPACTED IN MAXIMUM 300MM LIFTS.
9. PAVEMENT STRUCTURE: REFER TO THE GEOTECHNICAL INVESTIGATION REPORT DATED 10 JULY, 2019 PREPARED BY PATERSON GROUP.

GENERAL NOTES FOR GRADING

- 1. IT SHALL BE THE BUILDER'S RESPONSIBILITY TO ENSURE THAT GRADING AROUND HYDRANTS, TRANSFORMERS, AND UTILITY PEDESTALS, ETC., MEET CURRENT CITY OF OTTAWA, HYDRO AND UTILITY COMPANY REQUIREMENTS.
2. ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE OR CATCH BASIN OUTLETS ARE PROVIDED.
3. CONTRACTOR TO ADJUST EXISTING CATCH BASINS, MANHOLES, FIRE HYDRANTS, VALVE CHAMBERS AND VALVE BOXES TO FINAL GRADE AS REQUIRED.
4. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING FOUNDATIONS OF ADJACENT BUILDINGS DURING EXCAVATION AND CONSTRUCTION PERIOD.
5. GRADING IN GRASSED AREAS WILL BE BETWEEN 2% TO 7%. GRADES IN EXCESS OF 7% WILL REQUIRE A MAXIMUM 3:1 TERRACING.

Table with 5 columns: No., Date, Revision / Issue, and 2 empty columns. Contains revision history for the drawing.

grc architects logo and contact information: 47 Clarence Street, Suite 401, Ottawa, Ontario K1V 1S6.

exp Services Inc. logo and contact information: 11111111, 11111111, 11111111.

Signature of Andrew McCreight, Manager, Development Review Central Planning, Development & Building Services, Development Department, City of Ottawa.

APPROVED
By Andrew McCreight at 2:24 pm, Jul 30, 2024

PROJECT TITLE: NEW QATAR EMBASSY AND CONSULATE

DRAWING TITLE: LEGENDS AND NOTES

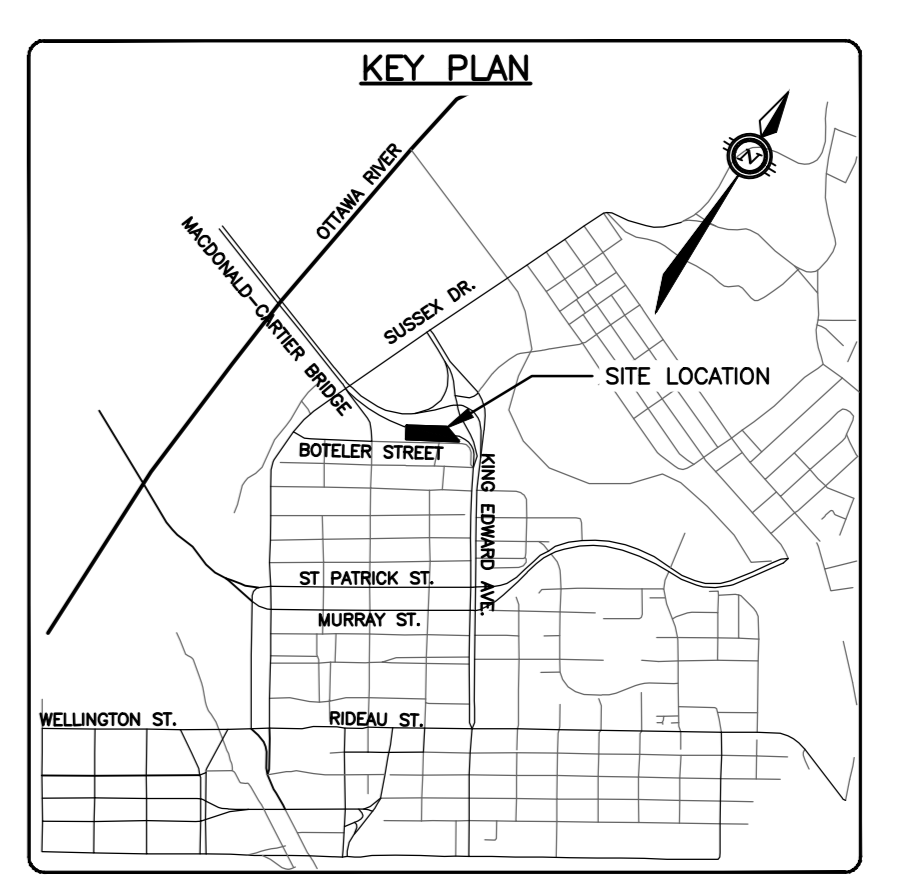
Table with 2 columns: Date and Job No. (OTT-00261664-AD). Includes drawing no. and approved date.

- 1. DO NOT SCALE THIS DRAWING.
2. CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE WORK COMMENCES.
3. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWINGS: STRUCTURAL, MECHANICAL, ELECTRICAL.



CAUTION  
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS 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, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

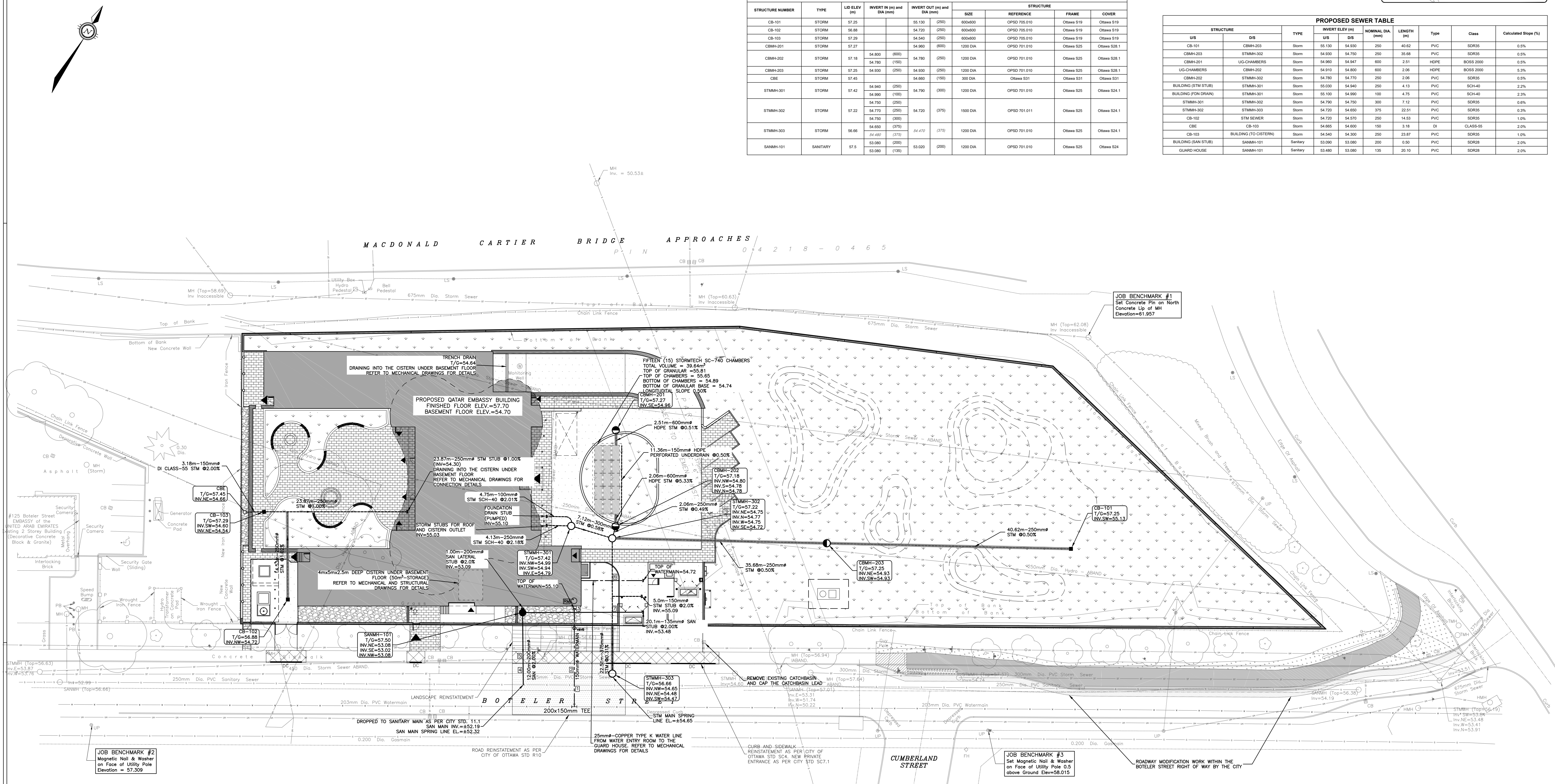
WATERMAIN / SEWER CROSSING TABLE											
LOCATION	FINISHED GRADE (m)	SANITARY SEWER			STORM SEWER			WATERMAIN		CLEARANCES (mm)	COMMENTS
		INV ELEV (m)	DA (mm)	QV ELEV (m)	INV ELEV (m)	DA (mm)	QV ELEV (m)	INV ELEV (m)	DA (mm)		
1	56.51	52.10	250	52.35	56.130	375	54.805	53.96	150	54.11	1610
2	56.48	52.82	200	53.36	54.43	375	54.78	53.78	150	53.93	500
3	57.50	53.16	200	53.36				54.95	150	55.10	1590
4	56.47	52.82	200	53.02	54.38	375	54.75				1300
5	56.6	52.65	200	52.85	54.19 (above)	450	54.64 (above)				1340
6	57.36				54.65	375	55.025	54.325	25	54.35	300
7	57.4	53.35	135	53.485	54.64	375	55.015				1155



ICD SUMMARY TABLE				
Control Location	Prod. Dev. Area No.	Max Flow (L/Sec)	Max Head (m)	Type
CBM-203	A9, A10	6.00	2.6	Hydrox
CBM-202	A7	6.00	0.9	Hydrox

STRUCTURE TABLE										
STRUCTURE NUMBER	TYPE	LD ELEV (m)	INVERT M (m) and DIA (mm)	INVERT OUT (m) and DIA (mm)	STRUCTURE					
					SIZE	REFERENCE	FRAME			
CB-101	STORM	57.25		56.130 (250)	600x600	OPSD 705.010	Ottawa S19	Ottawa S19		
CB-102	STORM	56.88		54.720 (250)	600x600	OPSD 705.010	Ottawa S19	Ottawa S19		
CB-103	STORM	57.29		54.540 (250)	600x600	OPSD 705.010	Ottawa S19	Ottawa S19		
CBM-201	STORM	57.27		54.960 (800)	1200 DIA	OPSD 701.010	Ottawa S25	Ottawa S28.1		
CBM-202	STORM	57.18		54.800 (600)	1200 DIA	OPSD 701.010	Ottawa S25	Ottawa S28.1		
CBM-203	STORM	57.25		54.930 (250)	1200 DIA	OPSD 701.010	Ottawa S25	Ottawa S28.1		
CBE	STORM	57.45		54.600 (150)	300 DIA	OPSD 531	Ottawa S31	Ottawa S31		
STMH-301	STORM	57.42		54.790 (800)	1200 DIA	OPSD 701.010	Ottawa S25	Ottawa S24.1		
STMH-302	STORM	57.22		54.770 (250)	54.720 (375)	1500 DIA	OPSD 701.011	Ottawa S25		
STMH-303	STORM	56.66		54.450 (375)	54.470 (375)	1200 DIA	OPSD 701.010	Ottawa S25		
SANMH-101	SANITARY	57.5		53.080 (135)	53.030 (200)	1200 DIA	OPSD 701.010	Ottawa S25		

PROPOSED SEWER TABLE										
STRUCTURE	TYPE	INVERT ELEV (m)	NORMAL DIA (mm)	LENGTH (m)	Type	Class	Calculated Slope (%)			
US	US	56.88	250	48.62	PVC	SDR35	0.5%			
CB-101	CBM-203	56.88	250	48.62	PVC	SDR35	0.5%			
CBM-203	STMH-302	54.930	250	35.68	PVC	SDR35	0.5%			
CBM-201	UG-CHAMBERS	54.960	600	2.51	HDPE	BOSS 2000	0.0%			
UG-CHAMBERS	CBM-202	54.810	600	2.06	HDPE	BOSS 2000	5.3%			
CBM-202	STMH-302	54.790	250	2.06	PVC	SDR35	0.5%			
BUILDING (STM STUB)	STMH-301	55.030	200	4.33	PVC	SCS-40	2.3%			
BUILDING (FTCN DRAIN)	STMH-301	55.150	100	4.75	PVC	SCS-40	2.3%			
STMH-301	STMH-302	54.790	300	7.12	PVC	SDR35	0.6%			
STMH-302	STMH-303	54.720	375	22.51	PVC	SDR35	0.3%			
CB-102	STM SEWER	54.720	250	14.53	PVC	SDR35	1.0%			
CBE	CB-103	54.665	150	3.16	DI	CLASS-50	2.0%			
CB-103	BUILDING (TO CISTERN)	54.450	200	23.87	PVC	SDR35	1.0%			
BUILDING (SAN STUB)	SANMH-101	53.080	200	8.90	PVC	SDR35	2.0%			
GUARD HOUSE	SANMH-101	53.080	135	25.10	PVC	SDR35	2.0%			



JOB BENCHMARK #2  
Magnetic Nail & Washer  
on Face of Utility Pole  
Elevation = 57.309

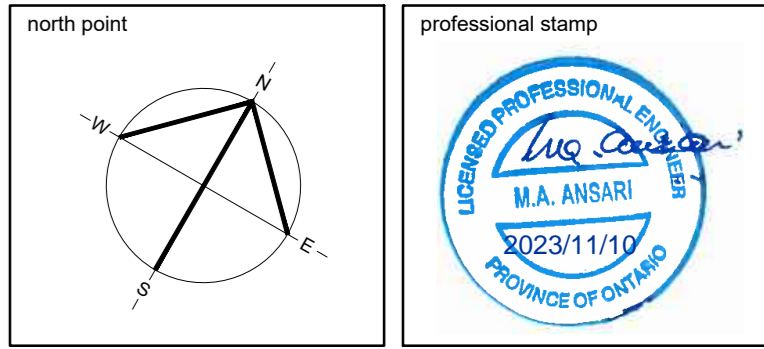
JOB BENCHMARK #1  
Set Concrete Pin on North  
Concrete Lip of MH  
Elevation=61.957

JOB BENCHMARK #3  
Set Magnetic Nail & Washer  
on Face of Utility Pole 0.5  
above Ground Elevation=58.016

no.	date	revision / issue	by
5	03/11/2023	RE-ISSUED FOR SITE PLAN CONTROL APPLICATION	AJ
4	08/08/2023	RE-ISSUED FOR SITE PLAN CONTROL APPLICATION	AJ
3	26/08/2022	RE-ISSUED FOR SITE PLAN CONTROL APPLICATION	AJ
2	12/04/2022	ISSUED FOR BUILDING PERMIT	AJ
1	01/03/2022	ISSUED FOR SITE PLAN CONTROL APPLICATION	AJ

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• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •



PROJECT TITLE  
**NEW QATAR EMBASSY AND CONSULATE**  
Ottawa, Ontario

DRAWING TITLE  
**SITE SERVICING PLAN**

date	job no.
scales	OTT-00261664-AD
drawn	A.Jarwal
approved	A.Ansari
plot date	05/10/2021
	drawing no.
	<b>C-100</b>

*Andrew McCreight*  
**ANDREW MCCREIGHT**  
MANAGER, DEVELOPMENT REVIEW CENTRAL  
PLANNING, DEVELOPMENT & BUILDING SERVICES  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

**APPROVED**  
By Andrew McCreight at 2:24 pm, Jul 30, 2024

1. DO NOT SCALE THIS DRAWING.  
2. CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE WORK COMMENCES.  
3. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWINGS: STRUCTURAL, MECHANICAL, ELECTRICAL.



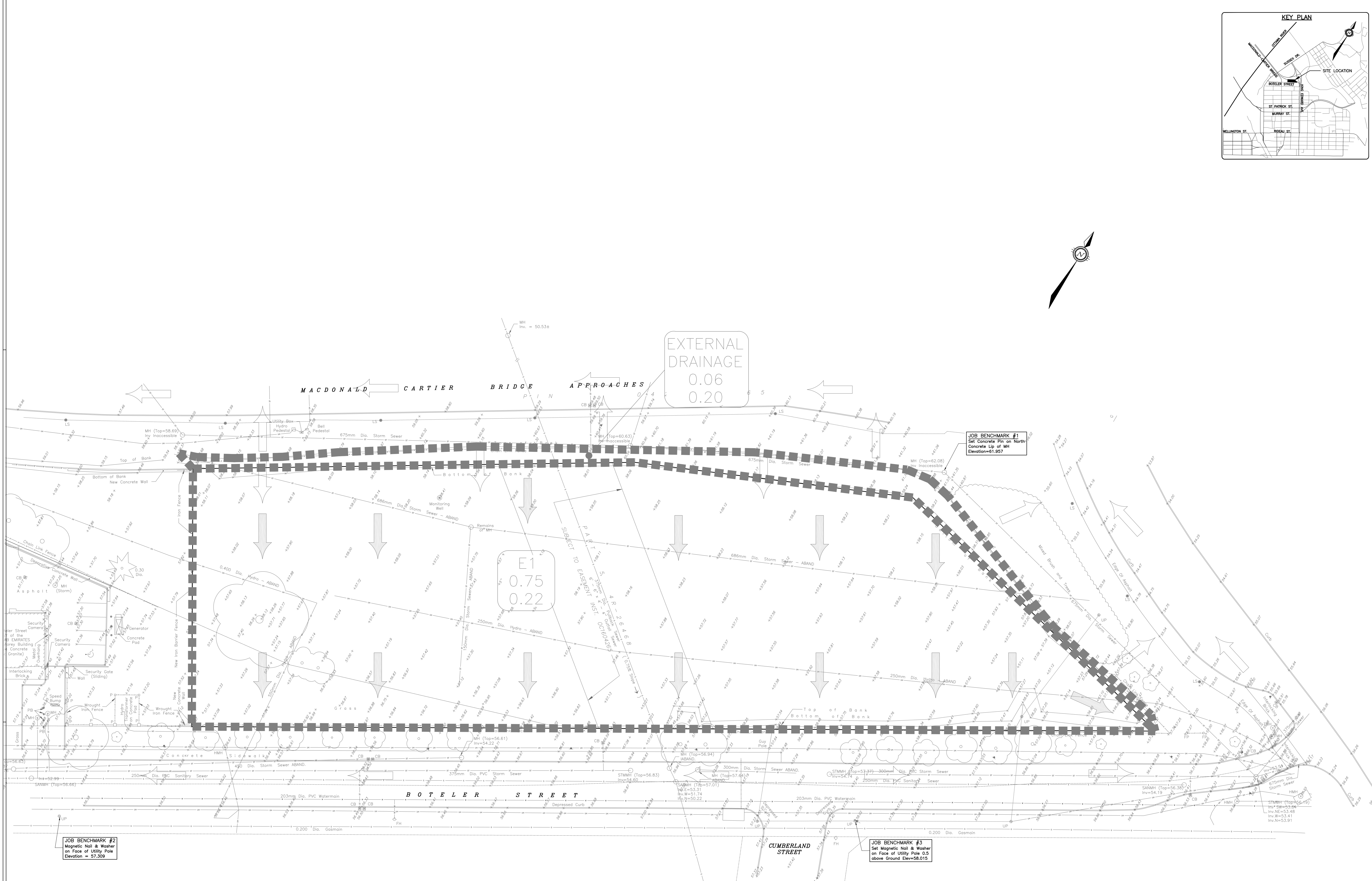
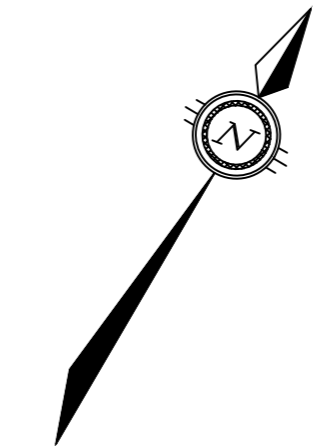
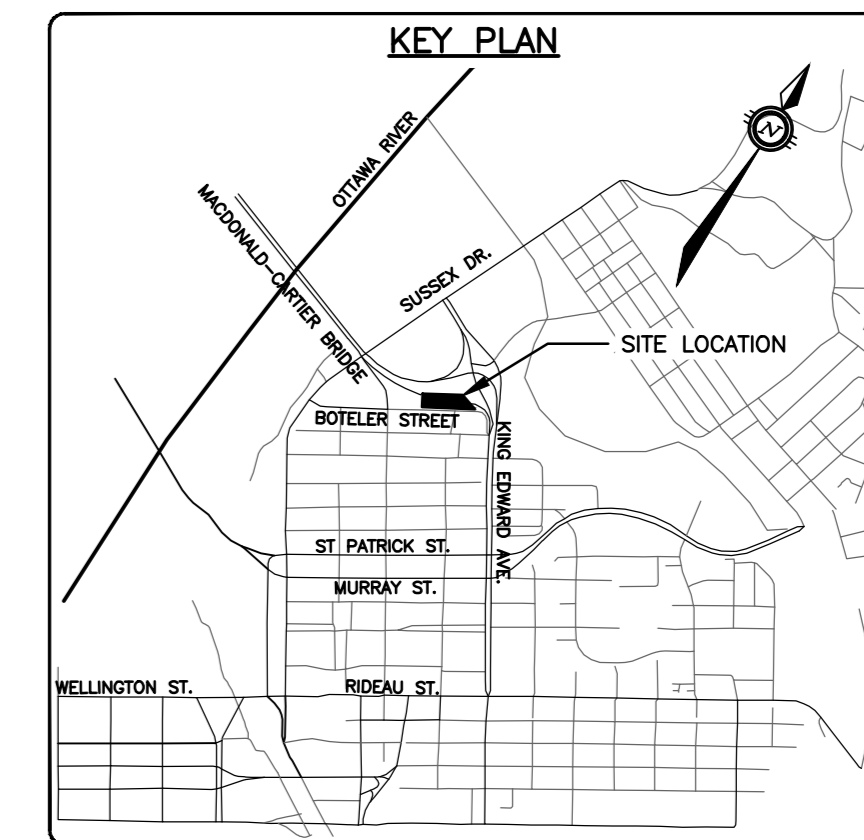








CAUTION  
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS. AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.



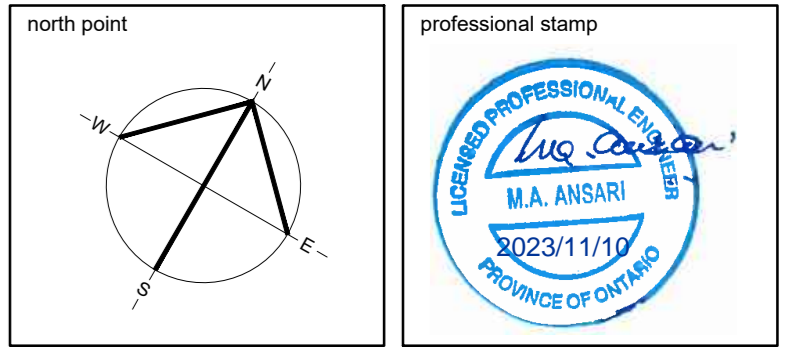
JOB BENCHMARK #2  
Magnetic Nail & Washer  
on Face of Utility Pole  
Elevation = 57.309

JOB BENCHMARK #3  
Set Magnetic Nail & Washer  
on Face of Utility Pole 0.5  
above Ground Elev=58.015

no.	date	revision / issue	by
5	03/11/2023	RE-ISSUED FOR SITE PLAN CONTROL APPLICATION	AJ
4	08/08/2023	RE-ISSUED FOR SITE PLAN CONTROL APPLICATION	AJ
3	26/08/2022	RE-ISSUED FOR SITE PLAN CONTROL APPLICATION	AJ
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• INFRASTRUCTURE • INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •



PROJECT TITLE  
**NEW QATAR EMBASSY AND CONSULATE**  
Ottawa Ontario

DRAWING TITLE  
**PRE-DEV STORMWATER MANAGEMENT PLAN**

date	job no.
scales 1:250	OTT-00261664-AD
drawn A.Jarwal	drawing no.
approved A.Ansari	<b>C-400</b>
plot date 05/10/2021	

*A. McCreight*  
**ANDREW MCCREIGHT**  
MANAGER, DEVELOPMENT REVIEW CENTRAL  
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DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

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