GENERAL

1. DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND LANDSCAPE DRAWINGS.
2. ALL SERVICES, MATERIALS, CONSTRUCTION METHODS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND REGULATIONS OF THE: CITY OF OTTAWA STANDARD SPECIFICATIONS AND DRAWINGS, ONTARIO PROVINCIAL SPECIFICATION STANDARD SPECIFICATION (OPSS) AND ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD), UNLESS OTHERWISE SPECIFIED, TO THE SATISFACTION OF THE CITY AND THE CONSULTANT.
3. THE POSITION OF EXISTING POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND ABOVEGROUND UTILITIES, STRUCTURES AND APPURTENANCES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWING, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SATISFY HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM DURING THE COURSE OF CONSTRUCTION. ANY RELOCATION OF EXISTING UTILITIES REQUIRED BY THE DEVELOPMENT OF SUBJECT LANDS IS TO BE UNDERTAKEN AT CONTRACTOR'S EXPENSE.
4. THE CONTRACTOR MUST NOTIFY ALL EXISTING UTILITY COMPANY OFFICIALS FIVE (5) BUSINESS DAYS PRIOR TO START OF CONSTRUCTION AND HAVE ALL EXISTING UTILITIES AND SERVICES LOCATED IN THE FIELD OR EXPOSED PRIOR TO THE START OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO HYDRO, BELL, CABLE TV, AND CONSUMERS GAS LINES.
5. ALL TRENCHING AND EXCAVATIONS TO BE IN ACCORDANCE WITH THE LATEST REVISIONS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS. ALL INFORMATION SHALL BE CONFIRMED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
6. REFER TO ARCHITECTS PLANS FOR BUILDING DIMENSIONS, ELEVATIONS, LAYOUT AND REMOVALS. REFER TO LANDSCAPE PLAN FOR LANDSCAPED DETAILS AND OTHER RELEVANT INFORMATION. ALL INFORMATION SHALL BE CONFIRMED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
7. TOPOGRAPHIC SURVEY COMPLETED AND PROVIDED BY STANTEC GEOMATICS LTD. DATED JUNE 18, 2024. CONTRACTOR TO VERIFY IN THE FIELD PRIOR TO CONSTRUCTION OF ANY WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
8. ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS. VERIFY THAT JOB BENCHMARKS HAVE NOT BEEN ALTERED OR DISTURBED.
9. ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE OR DRAIN OUTLETS ARE PROVIDED.
10. ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT. PAVEMENT REINSTATEMENT SHALL BE WITH STEP JOINTS OF 500mm WIDTH MINIMUM.
11. ALL DISTURBED AREAS OUTSIDE PROPOSED GRADING LIMITS TO BE RESTORED TO ORIGINAL ELEVATIONS AND CONDITIONS UNLESS OTHERWISE SPECIFIED. EXISTING PARKING LOT SHALL BE RE-ASPHALTED AT EXISTING GRADES EXCEPT AS NOTED TO EVEN OUT GRADES. ALL RESTORATION SHALL BE COMPLETED WITH THE GEOTECHNICAL REQUIREMENTS FOR BACKFILL AND COMPACTION.
12. ABUTTING PROPERTY GRADES TO BE MATCHED.
13. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE MUNICIPAL AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION, INCLUDING WATER PERMIT AND ROAD CUT PERMIT.
14. MINIMIZE DISTURBANCE TO EXISTING VEGETATION DURING THE EXECUTION OF ALL WORKS.
15. REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL UNLESS OTHERWISE DIRECTED FROM THE ENGINEER. EXCAVATE AND REMOVE ALL ORGANIC MATERIAL AND DEBRIS LOCATED WITHIN THE PROPOSED BUILDING, PARKING AND ROADWAY LOCATIONS.
16. AT PROPOSED UTILITY CONNECTION POINTS AND CROSSINGS (I.E. STORM SEWER, SANITARY SEWER, WATER, ETC.) THE CONTRACTOR SHALL DETERMINE THE PRECISE LOCATION AND DEPTH OF EXISTING UTILITIES AND REPORT ANY DISCREPANCIES OR CONFLICTS TO THE ENGINEER BEFORE COMMENCING WORK.
17. PRIOR TO CONSTRUCTION, A GEOTECHNICAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO IS TO INSPECT ALL SUB-SURFACES FOR FOOTINGS, SERVICES AND PAVEMENT STRUCTURES.
18. CONTRACTOR TO OBTAIN POST-CONSTRUCTION TOPOGRAPHIC SURVEY PERFORMED BY CERTIFIED OLS OR P.ENG. CONFIRMING COMPLIANCE WITH DESIGN GRADING AND SERVICING. SURVEY IS TO INCLUDE LOCATION AND INVERTS FOR BURIED UTILITIES.
19. PROVIDE CCTV INSPECTION REPORT FOR ALL SEWERS AND CATCHBASIN LEADS 200MM DIAMETER AND LARGER. REPEAT CCTV INSPECTION FOLLOWING RECTIFICATION OF ANY DEFICIENCIES.
20. REPORT REFERENCES
    - 20.1. GEOTECHNICAL INVESTIGATION - PROPOSED EVENT CENTRE LANSDOWNE PARK REDEVELOPMENT, REPORT NO. PG6655-1, MAY 2024, BY PATTERSON GROUP
    - 20.2. FUNCTIONAL SERVICING AND STORMWATER MANAGEMENT REPORT FOR LANSDOWNE LIVE OTTAWA SPORT AND ENTERTAINMENT GROUP, PROJECT NO. 09-378, JANUARY 2012, BY DSEL.
    - 20.3. FUNCTIONAL SERVICING AND STORMWATER MANAGEMENT STUDY FOR LANSDOWNE PARK REDEVELOPMENT 2.0, PROJECT NO. CA0000286.1662, SEPTEMBER 2023, BY WSP.
    - 20.4. STORMWATER MANAGEMENT DESIGN REPORT FOR LANSDOWNE URBAN PARK, FEBRUARY 2012, BY STANTEC CONSULTING LTD.
    - 20.5. SERVICING REPORT FOR LANSDOWNE PARK EVENT CENTRE, REPORT NO.CA0033920.1056. FEBRUARY 2025, PREPARED BY WSP.
    - 20.6. SOTRMWATER MANAGEMENT DESIGN REPORT FOR LANSDOWNE PARK EVENT CENTRE, REPORT NO.CA0033920.1056 FEBRUARY 2025, PREPARED BY WSP.
    - 20.7. DRAFT ENVIRONMENTAL PROVISIONS - LANSDOWNE PARK 2.0 - EVENT CENTRE LANDS AND GREAT LAWN, JANUARY 20, 2024, BY WSP.

ROADWORKS AND WORK IN PUBLIC RIGHTS OF WAY

1. CONTRACTOR TO REINSTATE ROAD CUTS AS PER CITY OF OTTAWA DETAIL R10.
2. GEOTECHNICAL INVESTIGATION - PROPOSED EVENT CENTRE LANSDOWNE PARK REDEVELOPMENT, REPORT NO. PG6655-1, MAY 2024, BY PATTERSON GROUP.
3. CONTRACTOR TO PREPARE SUBGRADE, INCLUDING PROOFROLLING, TO THE SATISFACTION OF THE GEOTECHNICAL CONSULTANT PRIOR TO THE COMMENCEMENT OF PLACEMENT OF GRANULAR B MATERIAL.
4. FILL TO BE PLACED AND COMPACTED PER THE GEOTECHNICAL REPORT REQUIREMENTS.
5. CONTRACTOR TO SUPPLY, PLACE AND COMPACT GRANULAR B MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT. CONTRACTOR TO PROVIDE CONSULTANT WITH SAMPLES OF GRANULAR B MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL CONSULTANT THAT THE MATERIAL MEETS THE GRADATION REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.
6. GRANULAR A MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL CONSULTANT OF GRANULAR B PLACEMENT.
7. CONTRACTOR TO SUPPLY, PLACE AND COMPACT GRANULAR A MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT. CONTRACTOR TO PROVIDE CONSULTANT WITH SAMPLES OF GRANULAR A MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL CONSULTANT THAT THE MATERIAL MEETS THE GRADATION REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.
8. ASPHALT MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL CONSULTANT OF GRANULAR A PLACEMENT.
9. CONTRACTOR TO SUPPLY, PLACE AND COMPACT ASPHALT MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT. CONTRACTOR TO PROVIDE CONSULTANT WITH SAMPLES OF ASPHALT MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL CONSULTANT THAT THE MATERIAL MEETS THE REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.
10. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING LINE AND GRADE IN ACCORDANCE WITH THE PLANS, AND FOR PROVIDING THE CONSULTANT WITH VERIFICATION PRIOR TO PLACEMENT.
11. 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 CONSULTANT. CONSULTANT TO DETERMINE APPROPRIATE DISPOSAL METHOD/LOCATION.
12. PAVEMENT STRUCTURE (MATERIAL TYPES AND THICKNESS) TO BE AS SPECIFIED IN THE GEOTECHNICAL REPORT.

STORM SEWERS AND STRUCTURES

1. ALL STORM SEWER MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. PROVIDE CCTV INSPECTION REPORTS FOR ALL NEW STORM SEWERS, SERVICES AND CB LEADS.
2. STORM SEWERS 450mm DIAMETER AND SMALLER SHALL BE PVC SDR-35, WITH RUBBER GASKET PER CSA A-257.3.
3. STORM SEWER LARGER THAN 450mm SHALL BE REINFORCED CONCRETE CLASS 100D. ALL REINFORCED CONCRETE STORM SEWER PIPE SHALL BE ACCORDANCE WITH CSA A257.2. PIPE SHALL BE JOINTED WITH STD. RUBBER GASKETS AS PER CSA A257.3.
4. SEWER BEDDING AS PER CITY OF OTTAWA DETAIL S6.
5. ALL STORM MANHOLES TO BE AS PER STORM STRUCTURE TABLE.
6. ANY NEW OR EXISTING STORM SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR APPROVED BY THE ENGINEER.
7. ALL CATCHBASIN LEADS TO BE MINIMUM 200mm DIAMETER AT MINIMUM 1.0% SLOPE UNLESS OTHERWISE SPECIFIED.
8. SAFETY PLATFORMS SHALL BE AS PER OPSD 404.02.
9. DROP STRUCTURES SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA SPECIFICATIONS AND OPSD 1003.01.
10. STORM SEWER MANHOLES SERVICING LOCAL SEWERS LESS THAN 900mm SHALL BE CONSTRUCTED WITH A 300mm SUMP. FOR STORM SEWERS 900mm AND OVER USE BENCHING IN ACCORDANCE WITH OPSD 701.021.
11. STORM CATCHBASINS AS PER OPSD 705.010 AND FRAME/COVER AS PER CITY STANDARD DRAWINGS S19. STORM CBMH'S AS INDICATED IN TABLE WITH SUMP, ADJUSTMENT SECTIONS SHALL BE AS PER OPSD 704.010.
12. INSTALLATION OF FLOW CONTROL ICD'S TO BE VERIFIED BY QUALITY VERIFICATION ENGINEER RETAINED BY CONTRACTOR.
13. PROVIDE BACKWATER VALVE ON FOUNDATION DRAIN, STORM DISCHARGE, AND OVERFLOW DISCHARGE PER S14
14. ALL CATCHBASINS EXCLUDING LANDSCAPE CATCHBASINS TO HAVE 150 MMØ PERFORATED PIPE FOR 3.0M ON ALL AVAILABLE SIDES AT AN ELEVATION OF 300mm BELOW SUBGRADE LEVEL AS PER CITY OF OTTAWA STANDARD DRAWING 'R1'

SANITARY SEWER AND STRUCTURES

1. ALL SANITARY SEWER, SANITARY SEWER APPURTENANCES AND CONSTRUCTION METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. PROVIDE CCTV INSPECTION REPORTS FOR ALL NEW SANITARY PIPING.
2. SANITARY SEWER PIPE SIZE 150mm DIAMETER AND GREATER TO BE PVC SDR-35 (UNLESS SPECIFIED OTHERWISE) WITH RUBBER GASKET TYPE JOINTS IN CONFORMANCE WITH CSA B-182.2,3,4.
3. SEWER BEDDING AS PER CITY OF OTTAWA DETAIL S6.
4. ALL SANITARY MANHOLES 1200mm IN DIAMETER TO BE AS PER OPSD 701.01. FRAME AND COVER TO BE AS PER CITY OF OTTAWA STANDARD S25 AND S24.
5. MAINTENANCE HOLE BENCHING AND PIPE OPENING ALTERNATIVES AS PER THE OPSD 701.021
6. ANY SANITARY SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR APPROVED BY THE ENGINEER.
7. SAFETY PLATFORMS SHALL BE AS PER OPSD 404.02.
8. DROP STRUCTURES SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA SPECIFICATIONS AND OPSD 1003.01.
9. PROVIDE BACKWATER VALVE FOR BUILDING SANITARY SERVICES PER S14.1

WATERMAIN

1. ALL WATERMAIN AND WATERMAIN APPURTANANCES, MATERIALS, CONSTRUCTION AND TESTING METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA AND MINISTRY OF ENVIRONMENT STANDARDS AND SPECIFICATIONS.
2. ALL WATERMAIN 300mm DIAMETER AND SMALLER TO BE POLY VINYL CHLORIDE (PVC) CLASS 150 DR 18 MEETING AWWA SPECIFICATION C900.
3. ALL WATERMAIN TO BE INSTALLED AT MINIMUM COVER OF 2.4m BELOW FINISHED GRADE. WHERE WATERMAINS CROSS OVER OTHER UTILITIES, A MINIMUM 0.30m CLEARANCE SHALL BE MAINTAINED; WHERE WATERMAINS CROSS UNDER OTHER UTILITIES, A MINIMUM 0.50m CLEARANCE SHALL BE MAINTAINED. WHERE THE MINIMUM SEPARATION CANNOT BE ACHIEVED, THE WATERMAIN SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARDS W25 AND W25.2. WHERE 2.4m MINIMUM DEPTH CANNOT BE ACHIEVED, THERMAL INSULATION SHALL BE PROVIDED AS PER CITY OF OTTAWA STANDARD W22. WHERE A WATERMAIN IS IN CLOSE PROXIMITY TO AN OPEN STRUCTURE, THERMAL INSULATION SHALL BE PROVIDED AS PER CITY OF OTTAWA STANDARD W23.
4. CONCRETE THRUST BLOCKS AND MECHANICAL RESTRAINTS ARE TO BE INSTALLED AT ALL TEES, BENDS, HYDRANTS, REDUCERS, ENDS OF MAINS AND CONNECTIONS 100mm AND LARGER, IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS W25.3 & W25.4.
5. CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS AS PER CITY OF OTTAWA STANDARD W40 & W42.
6. ALL VALVES AND VALVE BOXES AND CHAMBERS, HYDRANTS, AND HYDRANT VALVES AND ASSEMBLES SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARD
7. FIRE HYDRANT LOCATION AND INSTALLATION AS PER CITY OF OTTAWA STANDARD W18 & W19. CONTRACTOR TO PROVIDE FLOW TEST AND PAINTING OF NEW HYDRANT IN ACCORDANCE WITH CITY STANDARDS.
8. IF WATER MAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.

EROSION AND SEDIMENT CONTROL

** CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION, MONITORING, REPAIR AND REMOVAL OF ALL EROSION AND SEDIMENT CONTROL FEATURES. **

1. PRIOR TO START OF CONSTRUCTION:
    - 1.1. INSTALL SILT FENCE IN LOCATION SHOWN.
    - 1.2. INSTALL SILT SACK FILTERS IN ALL THE CATCHBASINS AND MANHOLES TO REMAIN DURING CONSTRUCTION WITHIN THE SITE.
    - 1.3. INSPECT MEASURES IMMEDIATELY AFTER INSTALLATION.
    - 1.4. INSTALL MUD MAT AT CONSTRUCTION ENTRANCES.
2. DURING CONSTRUCTION:
    - 2.1. MINIMIZE THE EXTENT OF DISTURBED AREAS AND THE DURATION OF EXPOSURE AND IMPACTS TO EXISTING GRADING.
    - 2.2. PERIMETER VEGETATION TO REMAIN IN PLACE UNTIL PERMANENT STORM WATER MANAGEMENT IS IN PLACE. OTHERWISE, IMMEDIATELY INSTALL SILT FENCE WHEN THE EXISTING SITE IS DISTURBED AT THE PERIMETER.
    - 2.3. PROTECT DISTURBED AREAS FROM OVERLAND FLOW BY PROVIDING TEMPORARY SWALES TO THE SATISFACTION OF THE FIELD ENGINEER. TIE-IN TEMPORARY SWALE TO EXISTING CB'S AS REQUIRED.
    - 2.4. PROVIDE TEMPORARY COVER SUCH AS SEEDING OR MULCHING IF DISTURBED AREA WILL NOT BE REHABILITATED WITHIN 30 DAYS.
    - 2.5. INSPECT SILT FENCES, FILTER FABRIC FILTERS AND CATCH BASIN SUMPS WEEKLY AND WITHIN 24 HOURS AFTER A STORM EVENT. CLEAN AND REPAIR WHEN NECESSARY.
    - 2.6. DOWNSTREAM STORM INFRASTRUCTURE SHALL BE PROTECTED FROM UNFILTERED RUNOFF DURING ON-SITE STORM INFRASTRUCTURE DEMOLITION.
    - 2.7. DRAWING TO BE REVIEWED AND REVISED AS REQUIRED DURING CONSTRUCTION.
    - 2.8. EROSION CONTROL FENCING TO BE ALSO INSTALLED AROUND THE BASE OF ALL STOCKPILES.
    - 2.9. DO NOT LOCATE TOPSOIL PILES AND EXCAVATION MATERIAL CLOSER THAN 2.5m FROM ANY PAVED SURFACE, OR ONE WHICH IS TO BE PAVED BEFORE THE PILE IS REMOVED. ALL TOPSOIL PILES ARE TO BE SEEDED IF THEY ARE TO REMAIN ON SITE LONG ENOUGH FOR SEEDS TO GROW (LONGER THAN 30 DAYS).
    - 2.10. CONTROL WIND-BLOWN DUST OFF SITE BY SEEDING TOPSOIL PILES AND OTHER AREAS TEMPORARILY (PROVIDE WATERING AS REQUIRED AND TO THE SATISFACTION OF THE ENGINEER).
    - 2.11. NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THE FIELD ENGINEER.
    - 2.12. CITY ROADWAY AND SIDEWALK TO BE CLEANED OF ALL SEDIMENT FROM VEHICULAR TRACKING AS REQUIRED.
    - 2.13. DURING WET CONDITIONS, TIRES OF ALL VEHICLES/EQUIPMENT LEAVING THE SITE ARE TO BE SCRAPED.
    - 2.14. ANY MUD/MATERIAL TRACKED ONTO THE ROAD SHALL BE REMOVED IMMEDIATELY BY HAND OR RUBBER TIRE LOADER.
    - 2.15. TAKE ALL NECESSARY STEPS TO PREVENT BUILDING MATERIAL, CONSTRUCTION DEBRIS OR WASTE BEING SPILLED OR TRACKED ONTO ABUTTING PROPERTIES OR PUBLIC STREETS DURING CONSTRUCTION AND PROCEED IMMEDIATELY TO CLEAN UP ANY AREAS SO AFFECTED.
    - 2.16. ALL EROSION CONTROL STRUCTURE TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN STABILIZED EITHER BY PAVING OR RESTORATION OF VEGETATIVE GROUND COVER.
    - 2.17. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE, DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.

RETAINING WALLS

1. PRE-CAST UNIT RETAINING WALL TYPE TO BE SPECIFIED BY PROJECT LANDSCAPE ARCHITECT AT LOCATIONS, AS SPECIFIED ON THE GRADING PLAN TO BE APPROVED BY AUTHORITYIES HAVING JURISDICTION PRIOR TO EARLY SERVICING.
2. ALL RETAINING WALL SHALL BE CONCRETE, CONCRETE PRODUCT WITH TIE-BACK SYSTEM OR HEAVY BLOCK SYSTEM.
3. ALL TYPICAL RETAINING WALLS GREATER THAN 1.0m HEIGHT ARE TO BE DESIGNED, APPROVED AND STAMPED BY A CONSULTING ENGINEER SPECIALIZING IN STRUCTURAL ENGINEERING.
4. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS CERTIFIED BY A STRUCTURAL ENGINEER.
5. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE A CERTIFICATE FROM A STRUCTURAL ENGINEER CERTIFYING THAT THE WALL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH THE APPROVED ENGINEERING DRAWINGS AND THE CERTIFIED SHOP DRAWINGS.
6. FENCES OR RAILINGS ARE REQUIRED FOR WALLS HIGHER THAN 0.6m. REFER TO LANDSCAPING PLAN FOR DETAILS.

Table 2 - Recommended Light Duty Asphalt Pavement Structure - Car Only Parking Areas

Tickness (mm)	Material Description
50	**Wear Course** - HL-3 or Superpave 12.5 Asphaltic Concrete
150	**Base** - OPSS Granular A Crushed Stone
300	**SUBBASE** - OPSS Granular B Type II
SUBGRADE - Either approved fill, in-situ, or OPSS Granular B Type I or II material placed on in-situ soil or fill.	

Table 3 - Recommended Asphalt Pavement Structure - Access Lanes and Heavy Loading Parking Areas

Tickness (mm)	Material Description
40	**Wear Course** - Superpave 12.5 Asphaltic Concrete
50	**Binder Course** - Superpave 19.0 Asphaltic Concrete
150	**Base** - OPSS Granular A Crushed Stone
300	**SUBBASE** - OPSS Granular B Type II
SUBGRADE - Either approved fill, in-situ, or OPSS Granular B Type I or II material placed on in-situ soil or fill	

EXISTING LEGEND:

EXISTING CURB
EXISTING BOTTOM OF SLOPE
EXISTING TOP OF SLOPE
EXISTING WATERMAIN
EXISTING STORM SEWER
EXISTING SANITARY SEWER
EXISTING SWALE
EXISTING PERFORATED DRAIN
EXISTING FENCE
SITE TEMPORARY CONTROL POINT
EXISTING SANITARY MANHOLE
EXISTING FIRE HYDRANT
EXISTING WATER VALVE
EXISTING ELEVATION
EXISTING TREES TO REMAIN
EXISTING CATCHBASIN
EXISTING CATCHBASIN MANHOLE
EXISTING STORM MANHOLE

REMOVALS LEGEND:

CURB REMOVAL
STORM REMOVAL
STORM REMOVAL
WATERMAIN REMOVAL
RETAINING WALL REMOVAL
RETAINING WALL REMOVAL
SUB DRAIN REMOVAL
FULL DEPTH ASPHALT REMOVAL
GREEN AREA/ INTERLOCK AREA REMOVAL
CONCRETE SIDEWALK REMOVAL
GRAVEL ROAD REMOVAL
RAMP REMOVAL
CLEAN SOIL REMOVAL
CATCH BASIN REMOVAL
STORM MANHOLE REMOVAL
SANITARY MANHOLE REMOVAL
FIRE HYDRANT REMOVAL
EXISTING TREES REMOVAL
BOLLAR REMOVAL
LIGHT STAND REMOVAL

PROPOSED LEGEND:

EXISTING BOUNDARY
NEW WATERMAIN
NEW STORM SEWER
NEW HDPE SUBDRAIN
NEW SANITARY SEWER
HIGH POINT
100 YEAR PONDING LIMIT
NEW STORM CATCH BASIN MANHOLE
NEW STORM MANHOLE
NEW CATCH BASIN/ DITCH INLET
NEW SANITARY MANHOLE
NEW WATERMAIN VALVE
NEW WATERMAIN CONNECTION
NEW WATERMAIN 45° BEND
NEW SERVICING CAP
PROPOSED ELEVATION
PROPOSED SURFACE SLOPE
OVER FLOW DIRECTION
PROPOSED TRENCH DRAIN
PROPOSED INTERLOCK
PROPOSED ASPHALT PAVEMENT
PROPOSED INSULATION
PROPOSED TREES

ESC LEGEND:

LIGHT DUTY SILT FENCE (OPSD 219.110)
FILTER CLOTH PROTECTION
MUD MAT

DRAINAGE AREA LEGEND:

DRAINAGE AREA SYMBOL
DRAINAGE AREA BOUNDARY

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

APPROVED
By Andrew McCreight at 1:08 pm, May 26, 2025

DATE PLOTTED:

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Ottawa Sports and Entertainment Group
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ARCHITECT

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(343) 308-9274
STRUCTURAL ENGINEER

TMP
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MECH, PLUMB, FIRE PROTECTION ENGINEER

MULVEY & BANANI
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ELEC, LIGHTING ENGINEER

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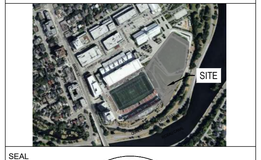
LANDSCAPE ARCHITECT

wsp
2011 QUEENSVIEW DR.
OTTAWA, ONTARIO K2B 8K2
(613) 829-2800
CIVIL ENGINEER

NO.	DESCRIPTION	DATE
7	REVISED AS PER CITY COMMENTS	2025-03-07
6	ISSUED FOR CD UPDATE	2025-02-28
5	ISSUED FOR CD UPDATE	2025-01-17
4	REVISED AS PER CITY COMMENTS	2025-01-15
3	ISSUED FOR 90% DD - CLASS B ESTIMATE	2024-11-15
2	REVISED AS PER CITY COMMENTS	2024-09-13
1	ISSUED FOR SPA	2024-08-07

REVISIONS/ ISSUES

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
DO NOT SCALE THE DRAWINGS



SEAL

LICENSED PROFESSIONAL ENGINEER
D. B. YANG
100230568
2025-03-07
PROVINCE OF ONTARIO

DRAWN: J.T
DATE: 2025/03/07
CHECKED: W.Y

LANSDOWNE EVENT CENTRE

945 & 1015 BANK STREET

DWG. TITLE
NOTES AND DETAILS

SCALE: AS SHOWN
PROJ. NO.: CA0033920.1056
DWG. NO.: C01

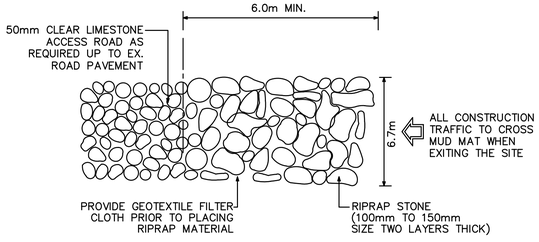
#D07-12-24-0082
#19172

STORM STRUCTURE TABLE

STRUCTURE	TOP OF GRATE	STRUC							OUTLET	
		INLET	INLET	INLET	OUTLET	SIZE	OPSD	COVER	DIAMETER	TYPE
CB01	65.00				63.600	600X600mm	OPSD 705.010	S19.1	250	PVC SDR-35
CB02	65.58				64.010	REFER TO TRENCH DRAIN DESIGN			250	PVC SDR-35
CB03	66.28				64.190	REFER TO TRENCH DRAIN DESIGN			250	PVC SDR-35
CB04	66.02				64.220	600X600mm	OPSD 705.010	S19.1	250	PVC SDR-35
CB05	64.91				63.740	REFER TO TRENCH DRAIN DESIGN			250	PVC SDR-35
CB06	64.91				63.760	REFER TO TRENCH DRAIN DESIGN			250	PVC SDR-35
CB07	64.90				63.690	REFER TO TRENCH DRAIN DESIGN			250	PVC SDR-35
CB08	64.90				63.190	REFER TO TRENCH DRAIN DESIGN			250	PVC SDR-35
CB09	65.20				64.070	REFER TO TRENCH DRAIN DESIGN			250	PVC SDR-35
CB10	65.30				63.620	600X600mm	OPSD 705.010	S19.1	250	PVC SDR-35
CB11	65.93				64.000	REFER TO TRENCH DRAIN DESIGN			250	PVC SDR-35
CB12	66.24				63.660	600X600mm	OPSD 705.010	S19.1	250	PVC SDR-35
CB13	65.74				63.680	REFER TO TRENCH DRAIN DESIGN			250	PVC SDR-35
CB14	67.22				64.370	REFER TO TRENCH DRAIN DESIGN			250	PVC SDR-35
CB15	65.15				63.830	600X600mm	OPSD 705.010	S19.1	250	PVC SDR-35
STMH201(OGS)	65.35			63.080	63.060	1800mm DIA.	OPSD 701.010	S24.1	900	PVC SDR-35
STMH202	65.38		63.380	63.150	63.060	1800mm DIA.	OPSD 701.010	S24.1	1050	CONC
STMH203	68.26			63.210	63.190	1800mm DIA.	OPSD 701.010	S24.1	1050	CONC
STMH204	71.50			63.260	63.240	1800mm DIA.	OPSD 701.010	S24.1	1050	CONC
STMH205	66.72		64.070	63.320	63.290	1800mm DIA.	OPSD 701.010	S24.1	1050	CONC
STMH206	67.11			63.370	63.350	1800mm DIA.	OPSD 701.010	S24.1	1050	CONC
STMH207	66.15			63.420	63.390	1800mm DIA.	OPSD 701.010	S24.1	1050	CONC
STMH208	66.39		63.900	63.520	63.440	1800mm DIA.	OPSD 701.010	S24.1	1050	CONC
STMH209	66.41			63.620	63.580	1800mm DIA.	OPSD 701.010	S24.1	900	CONC
CBMH210	64.90		63.520	63.200	63.180	1200mm DIA.	OPSD 701.010	S28.1	600	CONC
STMH211	65.75		63.240	63.220	63.220	1200mm DIA.	OPSD 701.010	S24.1	600	CONC
STMH212	65.37			63.360	63.290	1200mm DIA.	OPSD 701.010	S24.1	600	CONC
STMH213	65.05	63.380	63.380	63.110	63.060	1200mm DIA.	OPSD 701.010	S24.1	250	PVC SDR-35
STMH214	66.19	64.110	63.680	63.600	63.060	1200mm DIA.	OPSD 701.010	S24.1	250	PVC SDR-35
STMH215	66.13	64.110	63.380	63.060	64.110	1200mm DIA.	OPSD 701.010	S24.1	250	PVC SDR-35
STMH216	65.38			63.080	63.080	1200mm DIA.	OPSD 701.010	S24.1	250	PVC SDR-35

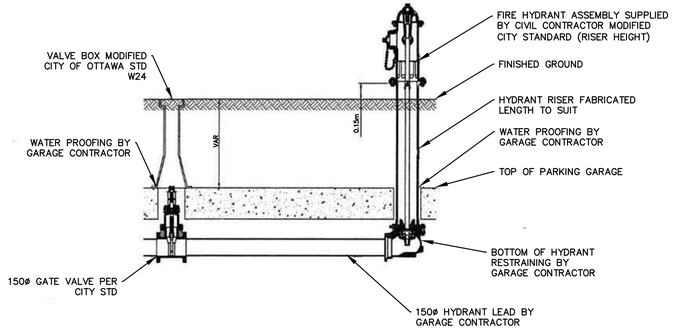
SAN STRUCTURE TABLE

STRUCTUR E ID	TOP OF GRATE	INVERT				DESCRIPTION		
		INLET	INLET	INLET	OUTLET	SIZE	OPSD	COVER
SAMH201	65.27			62.410	62.380	1200mm DIA.	OPSD-701.010	S24
SAMH202	66.13			62.510	62.480	1200mm DIA.	OPSD-701.010	S24
SAMH202A	67.02		64.510	62.570	62.570	1200mm DIA.	OPSD-701.010	S24
SAMH203	71.50			62.690	62.670	1200mm DIA.	OPSD-701.010	S24
SAMH204	66.65			62.760	62.740	1200mm DIA.	OPSD-701.010	S24
SAMH205	66.90			62.820	62.800	1200mm DIA.	OPSD-701.010	S24
SAMH206	66.93			62.880	62.860	1200mm DIA.	OPSD-701.010	S24
SAMH207	66.43		63.340	62.940	62.920	1200mm DIA.	OPSD-701.010	S24
SAMH208	66.42			63.100	63.040	1200mm DIA.	OPSD-701.010	S24
SAMH208A	66.46		65.840	63.020	63.020	1200mm DIA.	OPSD-701.010	S24
SAMH209	65.67			62.680	62.660	1200mm DIA.	OPSD-701.010	S24
SAMH210	65.36			62.820	62.760	1200mm DIA.	OPSD-701.010	S24



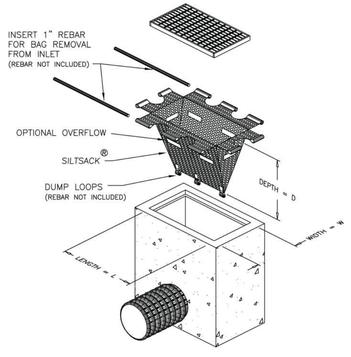
1 C06 MUD MAT DETAIL - PLAN VIEW
SCALE: N.T.S

FIRE HYDRANT ABOVE PARKING GARAGE



		Obvert	Invert			Obvert	Invert	
1	1050mmø CONC STM	64.373	63.190	0.188	Clearance Above	63.002	62.627	375mmø PVC SAN
2	375mmø PVC SAN	62.729	62.354	0.103	Clearance Under	64.341	62.832	*EX. 1350mmø CONC STM*
3	375mmø PVC SAN	62.768	62.393	0.083	Clearance Above	62.310	62.110	*EX.200mmø PVC W/M*
4	375mmø PVC SAN	62.794	62.419	0.164	Clearance Under	63.979	62.958	900mmø CONC STM
5	*EX.200mmø PVC W/M*	62.130	61.930	0.825	Clearance Under	63.976	62.955	900mmø CONC STM
6	375mmø PVC SAN	62.855	62.480	1.289	Clearance Under	64.394	64.144	250mmø PVC STM
7	375mmø PVC SAN	63.208	62.833	1.272	Clearance Under	64.680	64.480	200mmø PVC W/M
8	1050mmø CONC STM	64.556	63.373	0.363	Clearance Above	63.010	62.810	200mmø PVC W/M
9	375mmø PVC SAN	63.300	62.925	0.605	Clearance Under	64.505	63.905	600mmø PVC STM
10	200mmø PVC W/M	64.060	63.860	0.209	Clearance Above	63.651	63.351	*EX.300mmø PVC SAN*
11	200mmø PVC W/M	63.570	63.370	0.378	Clearance Under	64.643	63.948	*EX.600mmø PVC STM*
12	200mmø PVC W/M	64.060	63.860	0.458	Clearance Above	63.402	63.027	375mmø PVC SAN
13	200mmø PVC SAN	65.339	65.089	0.500	Clearance Above	64.589	63.568	900mmø CONC STM
14	250mmø PVC STM	63.976	63.726	0.884	Clearance Above	62.841	62.591	*EX.250mmø PVC SAN*
15	250mmø PVC STM	64.209	63.959	1.012	Clearance Above	62.947	62.572	*EX.375mmø PVC SAN*
16	250mmø PVC STM	63.194	62.944	0.097	Clearance Above	62.847	62.472	*EX.375mmø PVC SAN*
17	200mmø PVC W/M	63.960	63.760	0.282	Clearance Above	63.478	63.103	375mmø PVC SAN
18	600mmø PVC STM	63.987	63.387	0.343	Clearance Above	63.044	62.794	*EX.250mmø PVC SAN*
19	600mmø PVC STM	63.850	63.250	0.332	Clearance Above	62.918	62.668	*EX.250mmø PVC SAN*
20	375mmø PVC SAN	63.318	62.943	0.542	Clearance Under	64.060	63.860	200mmø PVC W/M
21	1050mmø CONC STM	64.511	63.328	0.378	Clearance Above	62.950	62.750	200mmø PVC W/M
22	1050mmø CONC STM	64.463	63.280	2.267	Clearance Under	66.930	66.730	200mmø PVC W/M
23	375mmø PVC SAN	63.141	62.766	3.429	Clearance Under	66.770	66.570	200mmø PVC W/M
24	375mmø PVC SAN	63.141	62.766	1.009	Clearance Under	64.350	64.150	200mmø PVC W/M
25	900mmø CONC STM	64.537	63.516	0.306	Clearance Above	63.210	63.010	200mmø PVC W/M
26	900mmø CONC STM	64.591	63.570	0.330	Clearance Above	63.240	63.040	200mmø PVC W/M
27	200mmø PVC W/M	62.860	62.660	0.349	Clearance Under	63.904	63.209	*EX.600mmø CONC STM*
28	200mmø PVC W/M	62.340	62.140	0.310	Clearance Under	62.900	62.650	*EX.250mmø PVC SAN*
29	200mmø PVC W/M	64.320	64.120	1.150	Clearance Above	62.970	62.595	*EX.375mmø PVC SAN*
30	250mmø PVC STM	64.516	64.266	1.290	Clearance Above	62.976	62.601	375mmø PVC SAN

Typical Siltsack® Construction - Type B



WATERMAIN SCHEDULE

STATION	DESCRIPTION	FINISHED GRADE	TOP OF WATERMAIN	COVER
	200mm W/M (FROM CONNECT TO EX.W/M TO BUILDING)			
0+000	Connect to EX. W/M	64.97	62.570	2.40
0+002.15	200mm VB	65.03	62.630	2.40
0+018.61	Crossing with 375mm PVC SAN	66.75	64.350	2.40
0+020.82	Crossing with 1050mm CONC STM	66.85	62.950	**3.90**
0+027.87	Connect to building	65.00	62.600	2.40

WATERMAIN SCHEDULE

STATION	DESCRIPTION	FINISHED GRADE	TOP OF WATERMAIN	COVER
	200mm W/M (FROM BUILDING TO END)			
1+000	Connect to proposed building	66.24	63.840	2.40
1+000.90	200mm VB	66.27	63.870	2.40
1+004.78	Crossing with 900mm CONC STM	66.41	63.210	**3.20**
1+006.27	Crossing with 375mm PVC SAN	64.06	61.660	2.40
1+006.81	45° Bend	66.48	64.080	2.40
1+007.85	150X200mm Tee connection	66.49	64.090	2.40
1+008.90	45° Bend	66.49	64.090	2.40
1+060.64	200x200mm TEE Connection	66.48	64.080	2.40
1+069.54	Crossing with 375mm PVC SAN	66.42	64.020	2.40
1+072.29	Watermain cap	66.37	63.970	2.40

WATERMAIN SCHEDULE

STATION	DESCRIPTION	FINISHED GRADE	TOP OF WATERMAIN	COVER
	200mm W/M (TEE CONNECTION TO BUILDING)			
2+000	200x200mm TEE Connection	66.48	64.080	2.40
2+001.85	200mm VB	65.02	62.620	2.40
2+001.98	Crossing with 375mm PVC SAN	66.46	64.060	2.40
2+003.48	Crossing with 900mm CONC STM	66.44	63.240	**3.20**
2+008.86	Connect to proposed building	66.48	64.080	2.40

WATERMAIN SCHEDULE

STATION	DESCRIPTION	FINISHED GRADE	TOP OF WATERMAIN	COVER
	200mm W/M (FROM CONNECT TO EX.W/M TO BUILDING)			
3+000	Connect to EX. W/M	66.18	63.780	2.40
3+004.31	Crossing with 375mm PVC SAN	67.08	64.680	2.40
3+006.16	Crossing with 1050mm CONC STM	67.11	63.010	**4.10**
3+007.37	200mm VB	65.03	62.630	2.40
3+008.05	Connect to proposed building	64.50	62.100	2.40

WATERMAIN SCHEDULE

STATION	DESCRIPTION	FINISHED GRADE	TOP OF WATERMAIN	COVER
	200mm W/M (FROM CONNECT TO EX.W/M TO BUILDING)			
4+000	Connect to EX. W/M	64.97	62.570	2.40
4+019.81	Crossing with 375mm PVC SAN	69.17	66.770	2.40
4+021.66	Crossing with 1050mm CONC STM	69.33	66.930	2.40
4+026.48	Connect to building	65.00	62.600	2.40

WATERMAIN SCHEDULE

STATION	DESCRIPTION	FINISHED GRADE	TOP OF WATERMAIN	COVER
	150mm FIRE HYDRANT (CLOSE TO EVENT CENTER)			
5+000	150x200mm Tee connection	66.49	64.090	2.40
5+004.77	45° Bend	66.47	64.070	2.40
5+010.07	Conncet to Fire Hydrant	66.42	64.020	2.40

WATERMAIN SCHEDULE

STATION	DESCRIPTION	FINISHED GRADE	TOP OF WATERMAIN	COVER
	150mm FIRE HYDRANT (ON LANDSCAPE AREA)			
6+000	Connect to EX.W/M with Tee Connection	66.60	64.200	2.40
6+010.95	45° Bend	66.81	64.410	2.40
6+019.92	Conncet to Fire Hydrant	67.00	64.600	2.40

WATERMAIN SCHEDULE

STATION	DESCRIPTION	FINISHED GRADE	TOP OF WATERMAIN	COVER
	200mm W/M (FROM CONNECT TO EX.W/M TO END)			
7+000	Connect to EX. W/M	65.94	63.540	2.40
7+009.51	45° Bend	65.85	63.450	2.40
7+012.50	Crossing with 600mm CONC STM	65.76	62.860	**2.90**
7+016.18	Crossing with 250mm PVC SAN	65.64	62.340	**3.30**
7+051.88	45° Bend	65.37	62.970	2.40
7+053.12	22.5° Bend	65.37	62.970	2.40
7+065.36	Watermain cap	65.32	62.920	2.40

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

APPROVED
By Andrew McCreight at 1:08 pm, May 26, 2025

Ottawa
OSEG Ottawa Sports and Entertainment Group
BRISBIN BROOK BEYNON ARCHITECTS
14 DUNCAN ST 4TH FLOOR
TORONTO, ON M5H 3G8
(416) 591-8999
ARCHITECT
ENTUITIVE
135 LAURIER AVE WEST, SUITE 413
OTTAWA, ON K1P 5J2
(343) 308-8274
STRUCTURAL ENGINEER
TMP
200 KING. ST. WEST, SUITE 310
TORONTO, ON M5H 3T4
(416) 499-8000
MECH, PLUMB, FIRE PROTECTION ENGINEER
MULVEY & BANANI
90 SHEPPARD AVE EAST, SUITE 500
TORONTO, ON M2N 3A
(416) 751-2520
ELEC, LIGHTING ENGINEER
S2O
530 N. WOOD STREET #C
CHICAGO, IL 60622
(224) 717-1999
FOOD AND BEVERAGE
CSW
319 MCRAE AVENUE, SUITE 502
OTTAWA, ONTARIO K1Z 0B9
(613) 729-4536
LANDSCAPE ARCHITECT
msp
2011 QUEENSVIEW DR.
OTTAWA, ONTARIO K2B 8K2
(613) 829-2800
CIVIL ENGINEER

NO.	DESCRIPTION	DATE
7	REVISED AS PER CITY COMMENTS	2025-03-07
6	ISSUED FOR CD UPDATE	2025-02-28
5	ISSUED FOR CD UPDATE	2025-01-17
4	REVISED AS PER CITY COMMENTS	2025-01-15
3	ISSUED FOR 90% DD - CLASS B ESTIMATE	2024-11-15
2	REVISED AS PER CITY COMMENTS	2024-09-13
1	ISSUED FOR SPA	2024-08-07

REVISIONS/ ISSUES

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
DO NOT SCALE THE DRAWINGS

SEAL
LICENSED PROFESSIONAL ENGINEER
D. B. YANG
100230568
2025-03-07
PROVINCE OF ONTARIO

DRAWN: J.T
DATE: 2025/03/07
CHECKED: W.Y

LANSDOWNE EVENT CENTRE
945 & 1015 BANK STREET

DWG. TITLE: DETAILS

SCALE: AS SHOWN
DWG. NO.: C02
PROJ. NO.: CA0033920.1056

#D07-12-24-0082
#19172

DATE PLOTTED:

BENCHMARK TABLE

Point No.	Northing	Easting	Elev
CC #1	5029149.213	368806.860	
CC #2	5029243.952	368876.257	
CC #3	5029193.203	368705.571	65.412
CC #6	5029144.760	368623.492	66.742
CC #7	5029095.379	368579.045	67.506
CC #8	5029101.070	368549.781	67.805
CC #9	5028989.253	368641.460	69.256
CP #87	5029086.967	368960.129	64.574
CP #88	5029257.273	369021.685	64.639
CP #102	5029082.645	368877.952	65.027
CP #103	5029112.963	368813.748	
CP #104	5029110.951	368837.055	65.020
CP# 105	5029144.819	368801.911	65.107
CP #6006	5029086.150	368805.429	
CPW #83	5028853.673	368573.563	65.326
SPK #4	5029115.901	368853.680	
SPK #85	5028866.914	368672.574	65.202
SPK #7352	5029056.087	368811.849	71.292
SPK #8928	5029145.040	368779.868	66.016
SPK #8435	5029089.179	368788.229	68.714
PKN #8838	5029023.162	368892.308	64.954
TARGET ON VAIL #7696	5028924.093	368706.883	89.744
MAG #20001	5029282.143	368911.384	65.242

REMOVE EX. SANITARY SEWER

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

APPROVED
By Andrew McCreight at 1:08 pm, May 26, 2025

0 5m 10m 20m 40m
SCALE: 1: 400

DATE PLOTTED:

Ottawa

OSEG
Ottawa Sports and Entertainment Group

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TORONTO, ON M5H 3G8
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wsp
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REVISIONS/ ISSUES

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DO NOT SCALE THE DRAWINGS

SEAL

LICENSED PROFESSIONAL ENGINEER
D. B. YANG
100230568
2025-03-07
PROVINCE OF ONTARIO

HUDON

DRAWN J.T
DATE 2025/03/07
CHECKED W.Y

LANSDOWNE EVENT CENTRE

945 & 1015 BANK STREET

DWG. TITLE

REMOVAL PLAN

SCALE 1:400
DWG. NO. C03A
PROJ. NO. CA0033920.1056

#D07-12-24-0082
#19172

MATCHING LINE
SEE DRAWING C03A

REMOVE EX.SOUTH SIDE STAND (REFER TO BUILDING DEMOLITION PLAN FOR DETAIL)

REMOVE ALL EX.ITEMS IN LANDSCAPE AREA

REMOVE EX.ASPHALT WALKWAY

REMOVE EX. BRIDGE (REFER TO BUILDING DEMOLITION PLAN FOR DETAIL)

REMOVE ALL EX.ITEMS IN LANDSCAPE AREA

REMOVE ALL EX.ITEMS IN LANDSCAPE AREA

REMOVE ALL EX.ITEMS IN LANDSCAPE AREA

REMOVE AND RESERVE 1m CLEAN SOIL CAP FOR FUTURE RE-USE. REMOVE EAST BERM IN ITS ENTIRETY WITHIN LIMITS SHOWN AND DISPOSE OFF-SITE. REFER TO ENVIRONMENTAL PROVISIONS FOR FURTHER DETAILS.

CONTRACTOR TO PROVIDE CCTV TO VERIFY THE STATUS OF THE EX.600mm STORM PRIOR TO CONSTRUCTION. REMOVE THE EX.600mm STORM LEAD ALL THE WAY TO THE PROPERTY. PLUG AND FILL THE REMAINING PORTION TO THE CANAL WITH GROUT IF IT WAS YET TO BE ABANDONED

REMOVE ALL EX.ITEMS IN LANDSCAPE AREA

APPROXIMATE LOCATION OF EX.600mm STORM TO CANAL

REMOVE CLEAN SOIL CAP AND RESERVE FOR RE-USE. EXCAVATE SOIL WITHIN EXCAVATION LIMIT TO REQUIRED DEPTH FOR NEW STORMWATER RETENTION STRUCTURE AS PER SOIL MANAGEMENT PLAN, REFER TO ENVIRONMENTAL PROVISIONS FOR FURTHER DETAILS.

REMOVE EX.CONCRETE SIDEWALK

REMOVE EX.THE RAMP (REFER TO BUILDING DEMOLITION PLAN FOR DETAIL)

REMOVE EX.GRAVEL ROAD

REMOVE EX.THE RETAINING WALL

REMOVE EX.THE INTERLOCK

REMAIN EX.STORM AND SANITARY MANHOLE

REMOVE ALL EX.ITEMS IN LANDSCAPE AREA

CONTRACTOR TO PROTECT EX. CONCRETE CISTERN WHILE REMOVING THE EX. PAVEMENT AND SOIL

REMOVE ALL EX.ITEMS IN LANDSCAPE AREA

REMOVED ALL EX.ITEMS IN LANDSCAPE AREA

BENCHMARK TABLE

Point No.	Northing	Easting	Elev
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CP #103	5029112.963	368813.748	
CP #104	5029110.951	368837.055	65.020
CP# 105	5029144.819	368801.911	65.107
CP #6006	5029086.150	368805.429	
CPW #83	5028853.673	368573.563	65.326
SPK #4	5029115.901	368853.680	
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SPK #7352	5029056.087	368811.849	71.292
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PLANNING, DEVELOPMENT & BUILDING SERVICES
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

APPROVED
By Andrew McCreight at 1:08 pm, May 26, 2025

0 5m 10m 20m 40m
SCALE: 1: 400

DATE PLOTTED:

BRISBIN BROOK BEYNON ARCHITECTS
14 DUNCAN ST 4TH FLOOR
TORONTO, ON M5H 3G8
(416) 591-8999
ARCHITECT

ENTUITIVE
135 LAURIER AVE WEST, SUITE 413
OTTAWA, ON K1P 5J2
(343) 308-9274
STRUCTURAL ENGINEER

TMP
200 KING. ST. WEST, SUITE 310
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(416) 499-8000
MECH, PLUMB, FIRE PROTECTION ENGINEER

MULVEY & BANANI
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(416) 751-2520
ELEC, LIGHTING ENGINEER

S2O
530 N. WOOD STREET #C
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(224) 717-1999
FOOD AND BEVERAGE

CSW
319 MCRAE AVENUE, SUITE 502
OTTAWA, ONTARIO K1Z 0B9
(613) 729-4536
LANDSCAPE ARCHITECT

wsp
2011 QUEENSVIEW DR.
OTTAWA, ONTARIO K2B 8K2
(613) 829-2800
CIVIL ENGINEER

NO.	DESCRIPTION	DATE
7	REVISED AS PER CITY COMMENTS	2025-03-07
6	ISSUED FOR CD UPDATE	2025-02-28
5	ISSUED FOR CD UPDATE	2025-01-17
4	REVISED AS PER CITY COMMENTS	2025-01-15
3	ISSUED FOR 90% DD - CLASS B ESTIMATE	2024-11-15
2	REVISED AS PER CITY COMMENTS	2024-09-13
1	ISSUED FOR SPA	2024-08-07

REVISIONS/ ISSUES

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
DO NOT SCALE THE DRAWINGS

SEAL

LICENSED PROFESSIONAL ENGINEER
D. B. YANG
100230568
2025-03-07
PROVINCE OF ONTARIO

NORTH

DRAWN J.T
DATE 2025/03/07
CHECKED W.Y

LANSDOWNE EVENT CENTRE

945 & 1015 BANK STREET

DWG. TITLE

REMOVAL PLAN

SCALE 1:400
DWG. NO. C03B
PROJ. NO. CA0033920.1056

#D07-12-24-0082
#19172

FOOTBALL FIELD

LIGHT DUTY SILT FENCE AS PER OPSD 219.110

SF SF SF SF SF SF

SOCCER FIELD LIMIT

FOOTBALL FIELD LIMIT

TURF

PATIO

ELEVATED WALKWAY

EVENT CENTRE
FFE=67.30

GREAT LAWN

EXHIBITION WAY

PRINCESS PATRICIA WAY

QUEEN ELIZABETH DRIVEWAY

RIDEAU CANAL WESTERN PATHWAY

ASPHALT WALKWAY

ASPHALT SIDEWALK

INTERLOCK

GRAVEL

RETAINING WALL

LOADING DOCK

SAMH207 STMH208 SAMH208 STMH209

CB12

SAMH206 STMH207

SAMH205 STMH206

SAMH204 STMH205

STMH204 SAMH203 STMH203

CB14 SAMH202A

SAMH202 CB04 STMH215

CB03 STMH214

CB02 STMH202

CB01 STMD

CBMH210

STMH201(OGS) STMH216 SAMH201

CB07 CB08 STMH213 CB05 CB06

CB13 STMH212 SAMH210

STMH211 SAMH209

CB10 CB11

EX.STM110
T/G = 64.01m
INV. W = 63.200m
INV. NE = 63.140m

CB15

LIGHT DUTY SILT FENCE AS PER OPSD 219.110

LIGHT DUTY SILT FENCE AS PER OPSD 219.110

BENCHMARK TABLE

Point No.	Northing	Easting	Elev
CC #1	5029149.213	368806.860	
CC #2	5029243.952	368876.257	
CC #3	5029193.203	368705.571	65.412
CC #6	5029144.760	368623.492	66.742
CC #7	5029095.379	368579.045	67.506
CC #8	5029101.070	368549.781	67.805
CC #9	5028989.253	368641.460	69.256
CP #87	5029086.967	368960.129	64.574
CP #88	5029257.273	369021.685	64.639
CP #102	5029082.645	368877.952	65.027
CP #103	5029112.963	368813.748	
CP #104	5029110.951	368837.055	65.020
CP# 105	5029144.819	368801.911	65.107
CP #6006	5029086.150	368805.429	
CPW #83	5028853.673	368573.563	65.326
SPK #4	5029115.901	368853.680	
SPK #85	5028866.914	368672.574	65.202
SPK #7352	5029056.087	368811.849	71.292
SPK #8928	5029145.040	368779.868	66.016
SPK #8435	5029089.179	368788.229	68.714
PKN #8838	5029023.162	368892.308	64.954
TARGET ON VAIL #7696	5028924.093	368706.883	89.744
MAG #20001	5029282.143	368911.384	65.242

DATE PLOTTED:

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

APPROVED
By Andrew McCreight at 1:08 pm, May 26, 2025

0 5m 10m 20m 40m
SCALE: 1:400

Ottawa

OSEG
Ottawa Sports and Entertainment Group

BRISBIN BROOK BEYNON ARCHITECTS
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REVISIONS/ ISSUES

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY OMISSIONS OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
DO NOT SCALE THE DRAWINGS

SEAL

LICENSED PROFESSIONAL ENGINEER
D. B. YANG
100230568
2025-03-07
PROVINCE OF ONTARIO

HURON

DRAWN: J.T
DATE: 2025/03/07
CHECKED: W.Y

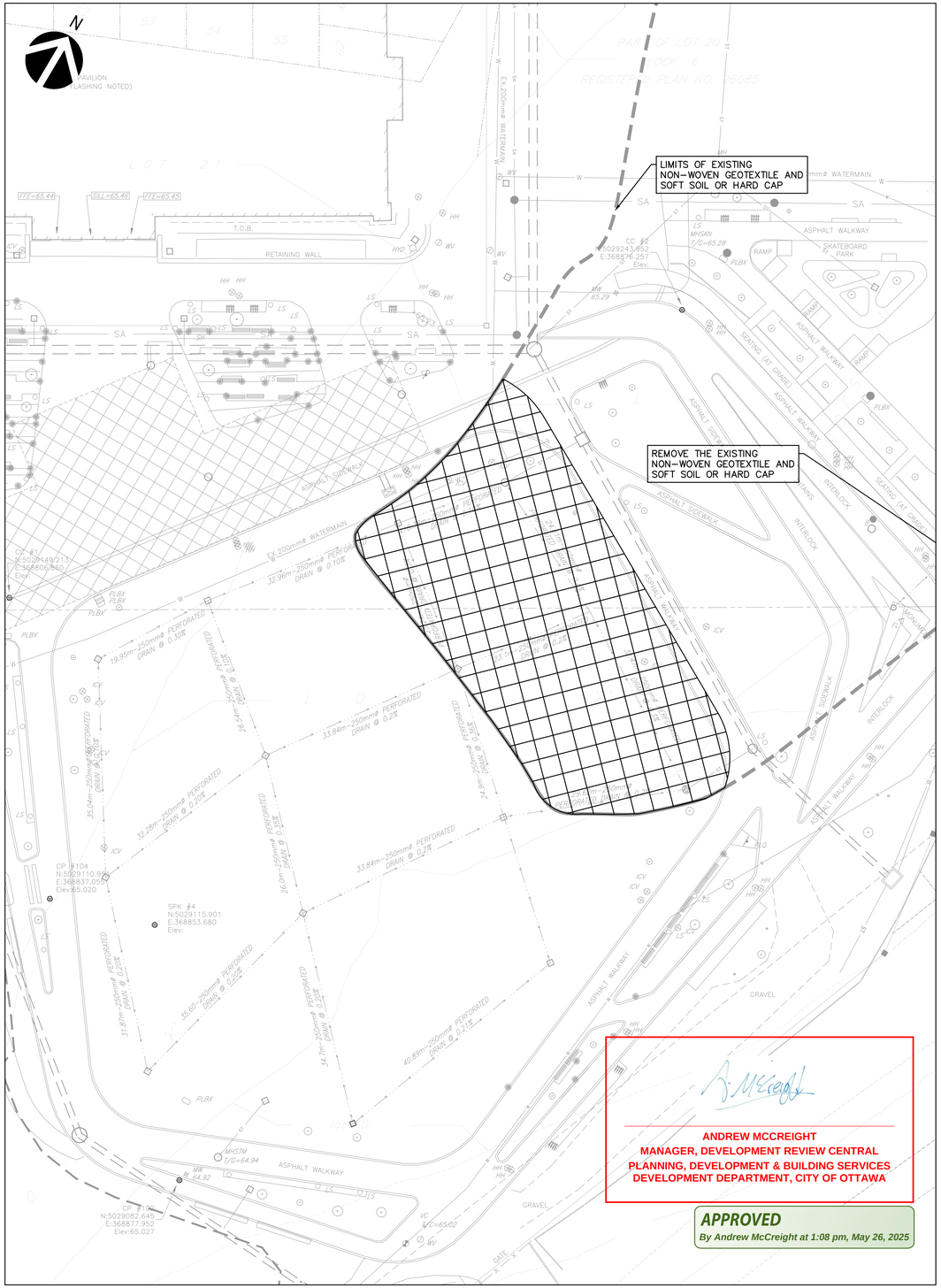
LANSDOWNE EVENT CENTRE

945 & 1015 BANK STREET

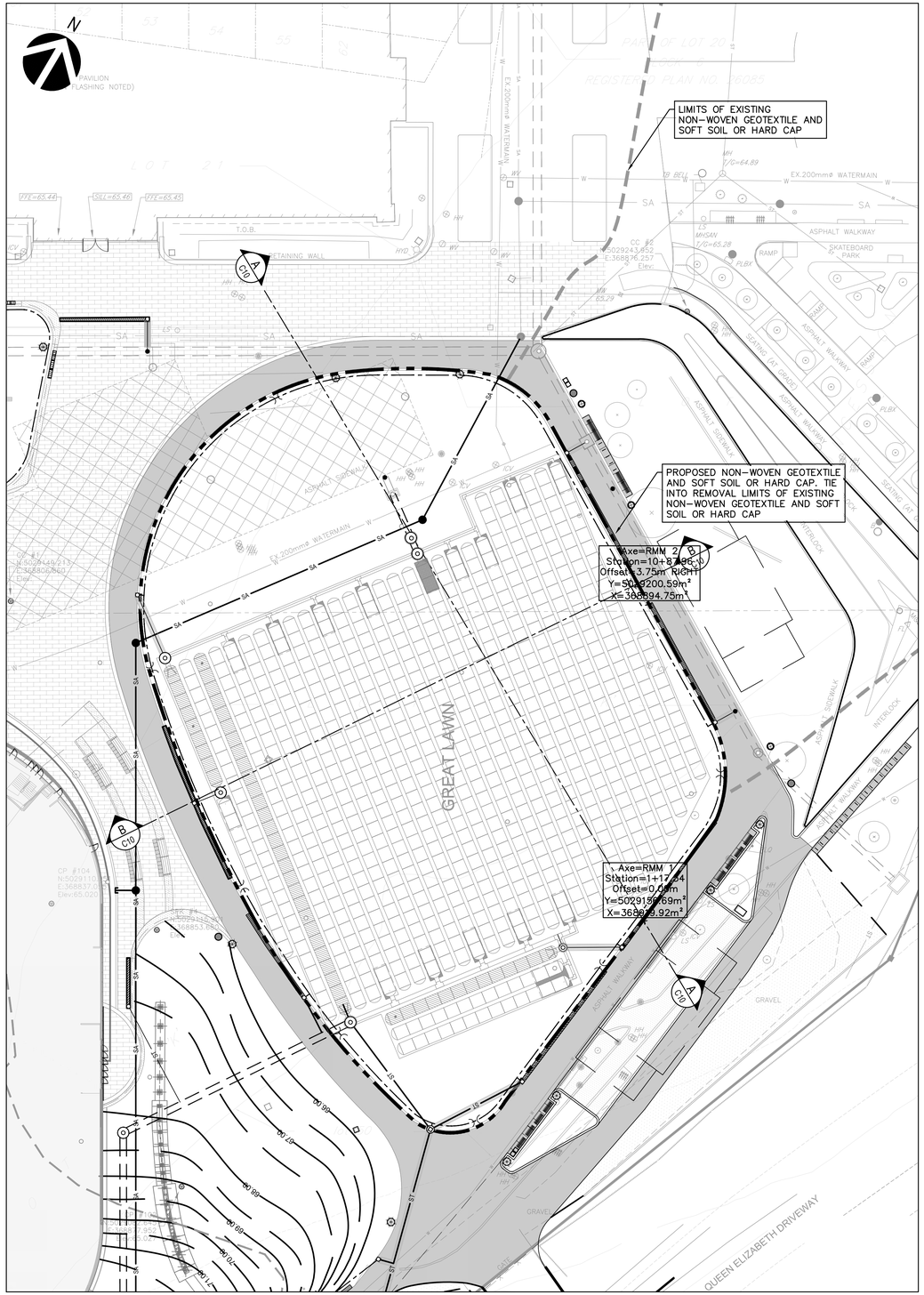
DWG. TITLE
EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1:400
DWG. NO.: C06
PROJ. NO.: CA0033920.1056

#D07-12-24-0082
#19172



1 C09 EX. NON-WOVEN GEOTEXTILE AND SOFT SOIL OR HARD CAP REMOVAL
SCALE: 1:400



2 C09 PROPOSED NON-WOVEN GEOTEXTILE AND SOFT SOIL OR HARD CAP
SCALE: 1:400

DATE PLOTTED:

Ottawa
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REVISIONS/ ISSUES

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DO NOT SCALE THE DRAWINGS

SEAL

DRAWN	J.T
DATE	2025/03/07
CHECKED	W.Y

LANSDOWNE EVENT CENTRE

945 & 1015 BANK STREET

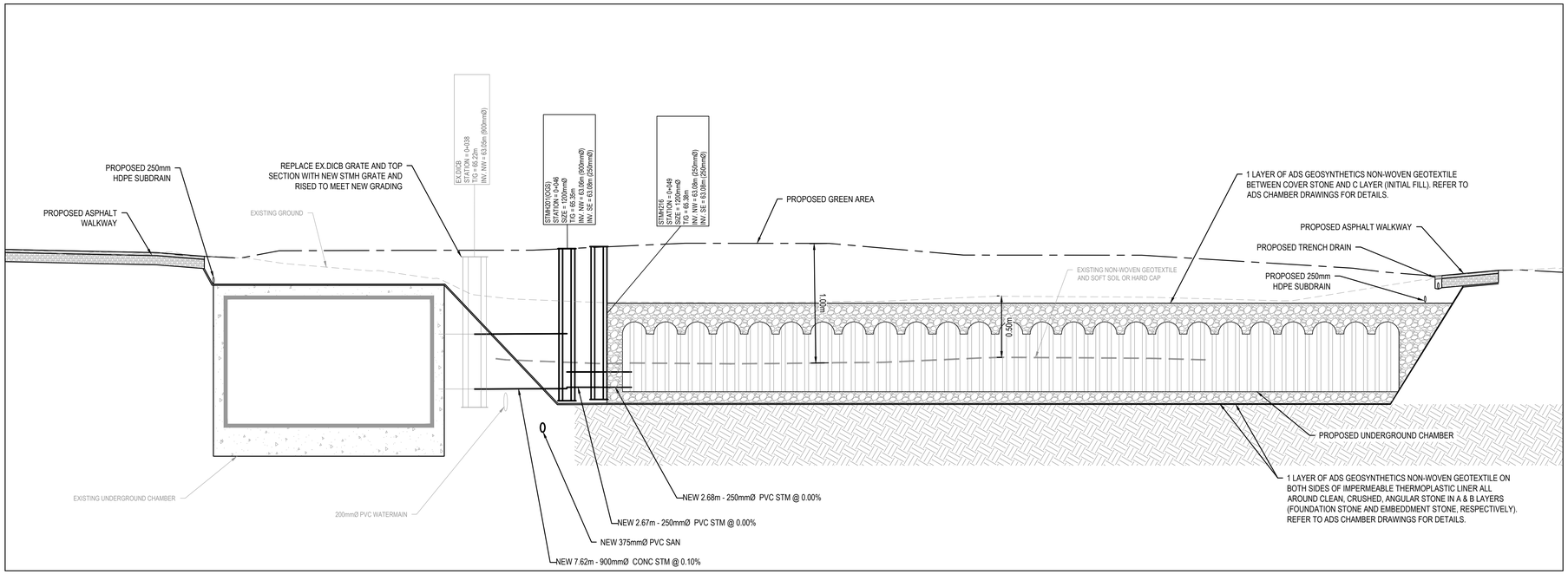
DWG. TITLE

LANSDOWNE 2.0RISK MANAGEMENT GREAT LAWN AREA PLAN

SCALE	1:400
DWG. NO.	C09
PROJ. NO.	CA0033920.1056

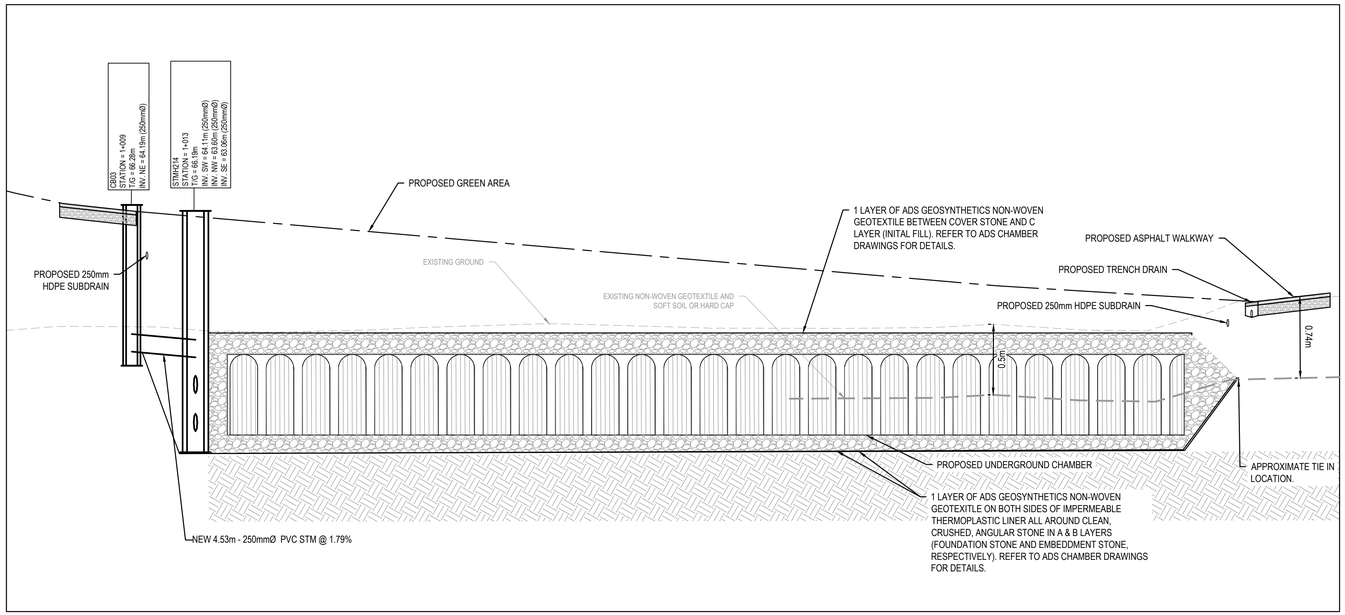
#D07-12-24-0082

#19172



A C10 UNDERGROUND CHAMBER CROSS SECTION A

SCALE: H 1:200, V 1:40



B C10 UNDERGROUNG CHARMBER CROSS SECTION B

SCALE: H 1:200, V 1:40

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

APPROVED
By Andrew McCreight at 1:08 pm, May 26, 2025

DATE PLOTTED:

Ottawa

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Ottawa Sports and Entertainment Group

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D. B. YANG
100230568
2025-03-07
PROVINCE OF ONTARIO

DRAWN J.T
DATE 2025/03/07
CHECKED W.Y

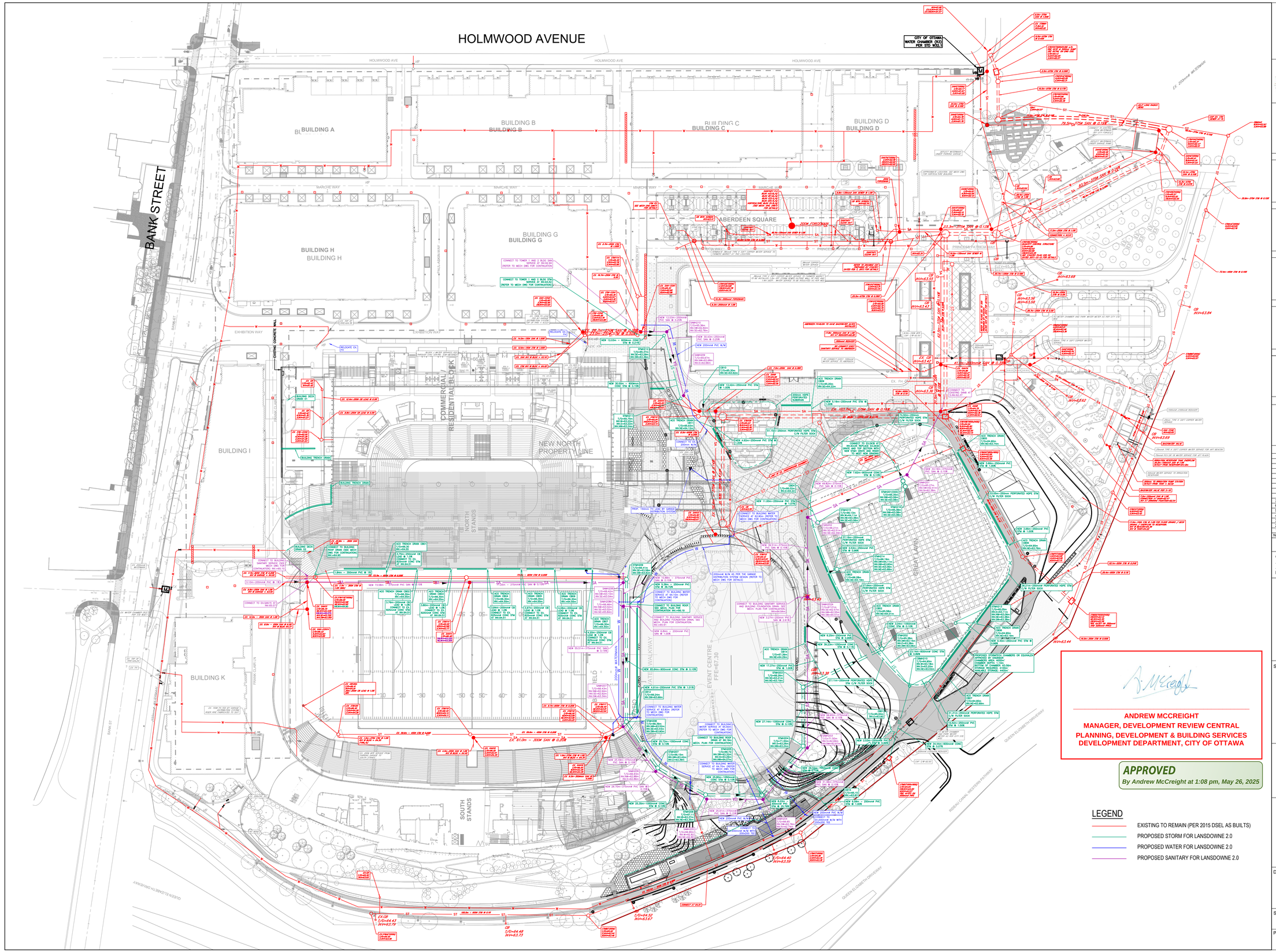
LANSDOWNE EVENT CENTRE

945 & 1015 BANK STREET

DWG. TITLE
UNDERGROUND CHAMBER CROSS SECTION

SCALE 1:200
DWG. NO. C10
PROJ. NO. CA0033920.1056

#D07-12-24-0082
#19172



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

APPROVED
By Andrew McCreight at 1:08 pm, May 26, 2025

DATE PLOTTED:

Ottawa

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Ottawa Sports and Entertainment Group

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REVISIONS/ ISSUES

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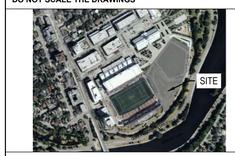

SEAL

LICENSED PROFESSIONAL ENGINEER
D. B. YANG
100230568
2025-03-07
PROVINCE OF ONTARIO

DRAWN	J.T
DATE	2025/03/07
CHECKED	W.Y

LANSDOWNE EVENT CENTRE

945 & 1015 BANK STREET

DWG. TITLE

OVERALL SERVICING PLAN

SCALE	DWG. NO.
1:750	C12
PROJ. NO. CA0033920.1056	

#D07-12-24-0082
#19172