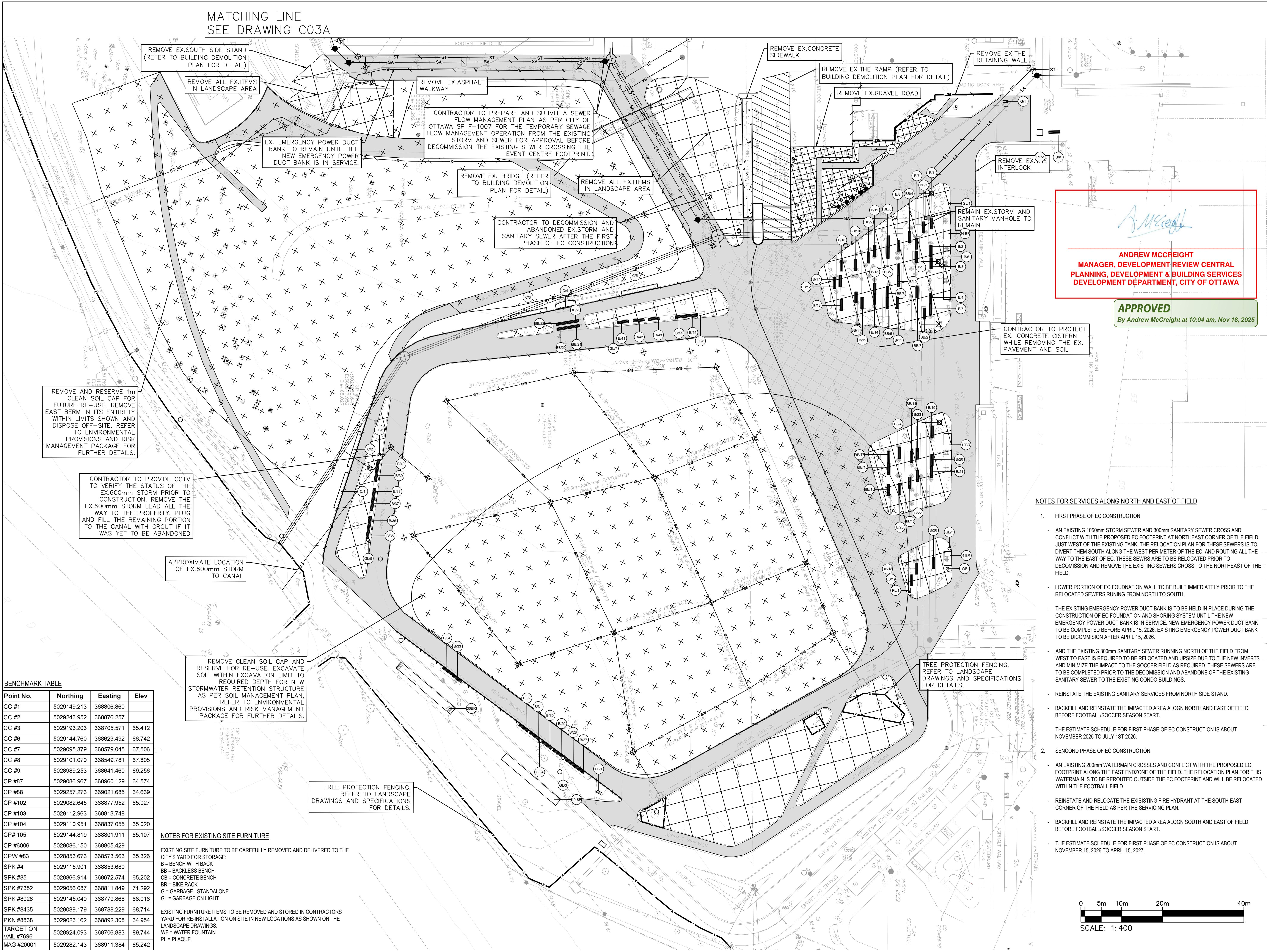
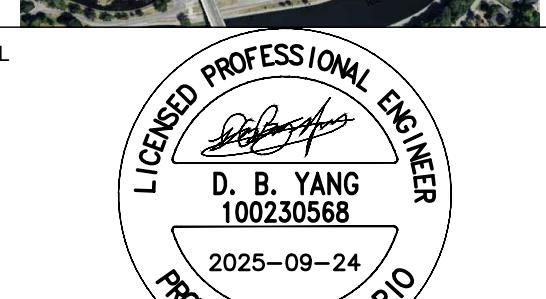
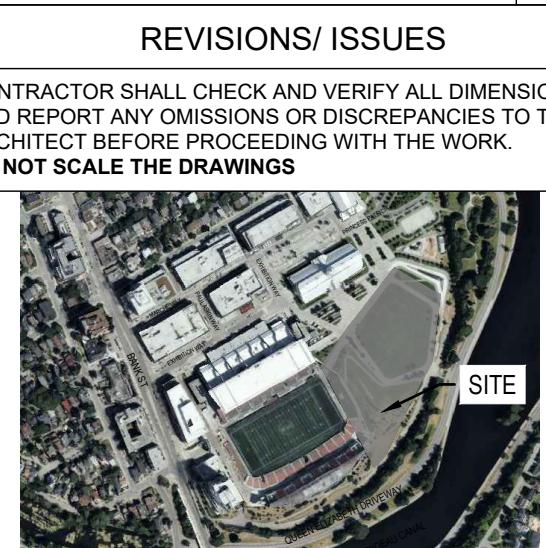


STORM STRUCTURE TABLE												
STRUCTURE	TOP OF GRATE		STRUC		OUTLET	SIZE	OPSD	COVER	DIAMETER	TYPE		
	INLET	INLET	INLET	OUTLET								
CB01	65.00			63.603	600x600mm	OPSD 705.010	S19.1	250	PVC SDR-35			
CB02	65.58			64.014	K200 REFER TO ACO TRENCH DRAIN DESIGN	250	PVC SDR-35					
CB03	66.28			64.191	K200 REFER TO ACO TRENCH DRAIN DESIGN	250	PVC SDR-35					
CB04	66.02			64.222	600x600mm	OPSD 705.010	S19.1	250	PVC SDR-35			
CB05	64.91			63.745	K200 REFER TO ACO TRENCH DRAIN DESIGN	250	PVC SDR-35					
CB06	64.91			63.755	K200 REFER TO ACO TRENCH DRAIN DESIGN	250	PVC SDR-35					
CB07	64.90			63.690	K200 REFER TO ACO TRENCH DRAIN DESIGN	250	PVC SDR-35					
CB08	64.90			63.188	K200 REFER TO ACO TRENCH DRAIN DESIGN	250	PVC SDR-35					
CB09	65.20			64.220	K200 REFER TO ACO TRENCH DRAIN DESIGN	300	PVC SDR-35					
CB10	65.30			63.620	600x600mm	OPSD 705.010	S19.1	250	PVC SDR-35			
CB11	65.93			63.470	K300 REFER TO ACO TRENCH DRAIN DESIGN	300	PVC SDR-35					
CB12	66.36			65.100	600x600mm	OPSD 705.010	S19.1	250	PVC SDR-35			
CB13	65.79			63.754	K200 REFER TO ACO TRENCH DRAIN DESIGN	250	PVC SDR-35					
CB14	67.22			64.288	K200 REFER TO ACO TRENCH DRAIN DESIGN	250	PVC SDR-35					
CB15	65.15			63.835	600x600mm	OPSD 705.010	S19.1	250	PVC SDR-35			
STMH-201(OGS)	65.39			63.080	63.058	1800mm DIA	OPSD 701.012	S24.1	900	PVC SDR-35		
STMH-202	66.38			63.380	63.167	63.060	1800mm DIA	OPSD 701.012	S24.1	1050	CONC	
STMH-203	66.26				63.227	63.207	1800mm DIA	OPSD 701.012	S24.1	1050	CONC	
STMH-204	71.50				63.277	63.257	1800mm DIA	OPSD 701.012	S24.1	1050	CONC	
STMH-205	66.72				63.324	63.304	1800mm DIA	OPSD 701.012	S24.1	1050	CONC	
STMH-206	67.09				63.368	63.348	1800mm DIA	OPSD 701.012	S24.1	1050	CONC	
STMH-207	66.28				63.394	63.394	1800mm DIA	OPSD 701.012	S24.1	1050	CONC	
STMH-208	66.30				63.928	63.490	63.415	1800mm DIA	OPSD 701.012	S24.1	1050	CONC
STMH-209	66.71				64.730	63.620	63.583	1800mm DIA	OPSD 701.012	S24.1	900	CONC
CBMH-210	64.90				63.525	63.205	63.175	1200mm DIA	OPSD 701.010	S28.1	600	CONC
STMH-211	65.75				63.243	63.223	1200mm DIA	OPSD 701.010	S24.1	600	CONC	
STMH-212	65.37				63.365	63.287	1200mm DIA	OPSD 701.010	S24.1	600	CONC	
STMH-213	65.05				63.380	63.108	63.060	1200mm DIA	OPSD 701.010	S24.1	250	PVC SDR-35
STMH-214	66.19				64.110	63.600	63.060	1200mm DIA	OPSD 701.010	S24.1	250	PVC SDR-35
STMH-215	66.13				64.110	63.380	63.060	1200mm DIA	OPSD 701.010	S24.1	250	PVC SDR-35
STMH-216	65.40				63.080	63.080	1200mm DIA	OPSD 701.010	S24.1	250	PVC SDR-35	
STMH-218	66.43				64.288	63.560	63.550	1800mm DIA	OPSD 701.012	S24.1	900	CONC
STMH-219	66.90				64.680	62.999	2400mm DIA	OPSD 701.013	S24.1	1200	CONC	
STMH-220	66.84					63.579	63.569	1800mm DIA	OPSD 701.012	S24.1	1200	CONC
STMH-221	66.19					63.406	63.406	1800mm DIA	OPSD 701.012	S24.1	1050	CONC

SAN STRUCTURE TABLE										
STRUCTURE	TOP OF GRATE	INVERT		DESCRIPTION		OUTLET	SIZE	OPSD	COVER	TYPE
		INLET	INLET	INLET	OUTLET					
SAMH-201	65.34			62.396	62.386	1200mm DIA	OPSD-701.010	S24		
SAMH-202	66.13			62.476	62.466	1200mm DIA	OPSD-701.010	S24		
SAMH-202A	67.01	64.907	62.540	62.530	1200mm DIA	OPSD-701.010	S24			
SAMH-203	71.50			62.645	62.635	1200mm DIA	OPSD-701.010	S24		
SAMH-204	66.65			62.696	62.686	1200mm DIA	OPSD-701.010	S24		
SAMH-205	66.22	63.022	62.757	62.747	1200mm DIA	OPSD-701.010	S24			
SAMH-206	66.15			62.790	62.780	1200mm DIA	OPSD-701.010	S24		
SAMH-207	66.29	63.334	62.841	62.831	1200mm DIA	OPSD-701.010	S24			
SAMH-208	66.65	64.886	63.017	62.997	1200mm DIA	OPSD-701.010	S24			
SAMH-208A	66.40	64.907	62.931	62.921	1200mm DIA	OPSD-701.010	S24			
SAMH-209	65.67			62.679	62.659	1200mm DIA	OPSD-701.010	S24		
SAMH-210	65.36			62.815	62.755	1200mm DIA	OPSD-701.010	S24		
SAMH-211	66.47			63.127	63.117	1200mm DIA	OPSD-701.010	S24		
SAMH-212	66.37	65.095	63.220	63.210	1200mm DIA	OPSD-701.010	S24			
SAMH-213	66.43			63.238	63.228	1200mm DIA	OPSD-701.010	S24		
SAMH-214	66.73			62.967	62.947	1200mm DIA	OPSD-701.010	S24		
SAMH-215	66.56			62.993	62.973	1200mm DIA	OPSD-701.010	S24		
SAMH-216	66.18			62.817	62.807	1200mm DIA	OPSD-701.010	S24		

STATION	DESCRIPTION	Obvert		Invert		STATION	Obvert		Invert		
		1	1050mmØ CONC STM	64.388	63.205		2	375mmØ PVC SAN	62.566	62.191	0.269
1	Clearance Above	62.965	62.590		375mmØ PVC SAN	62.757	62.382	0.542	Clearance Above	61.840	61.640
2	Clearance Under	64.344	62.835	EX. 1350mmØ CONC STM	62.775	62.400	0.283	Clearance Under	64.079	63.058	900mmØ CONC STM
3	Clearance Above	62.945	62.149	250mmØ PVC STM	62.130	61.930	0.				





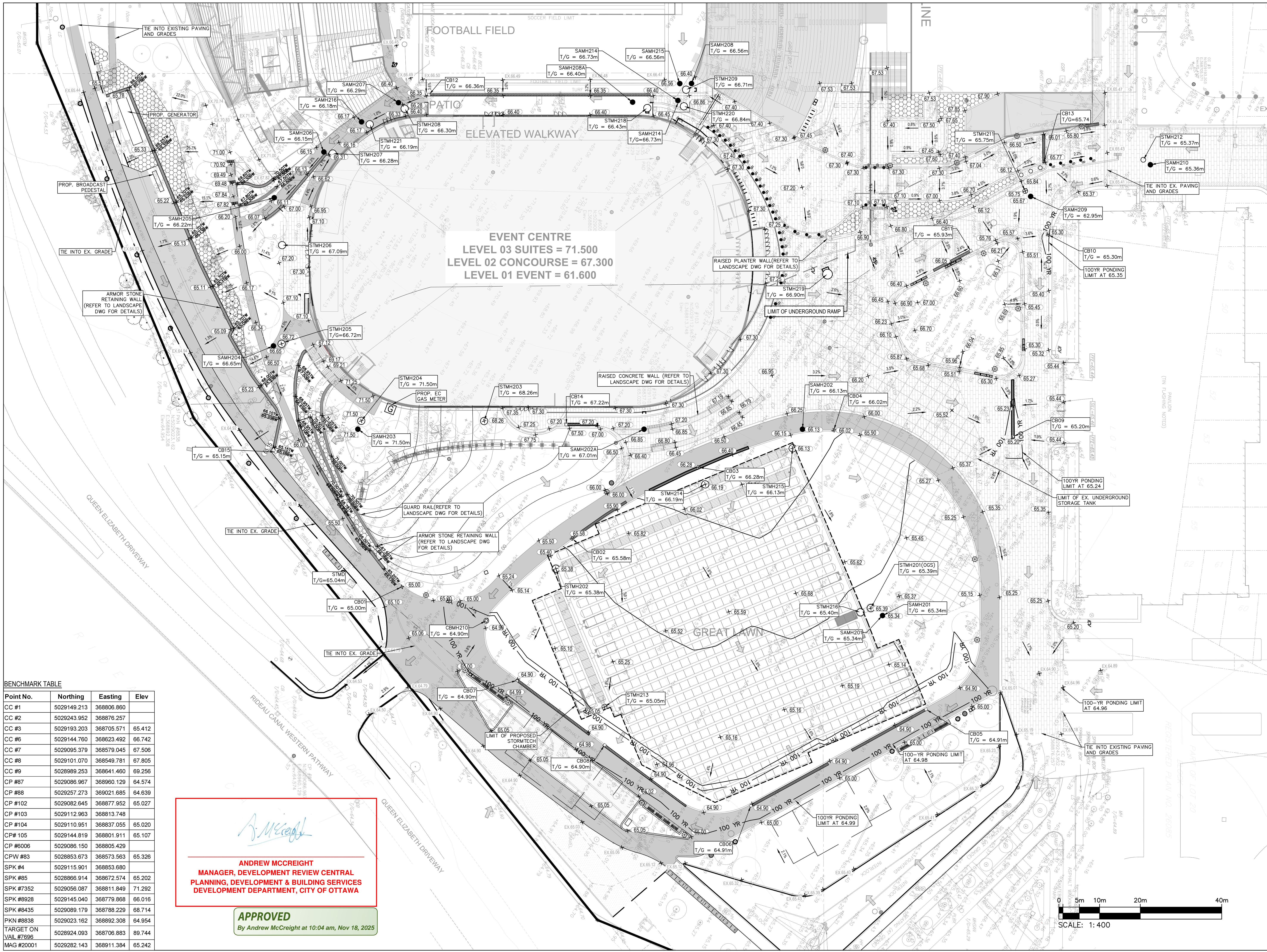
NOT FOR CONSTRUCTION

DRAWN J.T.
DATE 2025/09/24
CHECKED W.Y.

LANSDOWNE EVENT
CENTRE
945 & 1015 BANK STREET

DWG. TITLE
GRADING PLAN

SCALE 1:400
DWG. NO. C04
PROJ. NO. CA0033920.1056



NO.	DESCRIPTION	DATE
13	REVISED AS PER CITY COMMENTS	2025-09-24
12	ISSUED AS PER CITY COMMENTS	2025-08-16
11	ISSUED FOR 100% CDS FOR TENDER	2025-06-12
10	ISSUED FOR CDS UPDATE	2025-05-09
9	ISSUED FOR 100% DD - CLASS B ESTIMATE	2025-03-20
8	ISSUED FOR CDS UPDATE	2025-03-19
7	REVISED AS PER CITY COMMENTS	2025-03-07
6	ISSUED FOR CDS UPDATE	2025-02-28
5	ISSUED FOR CDS UPDATE	2025-02-27
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	2024-09-07

REVISIONS/ ISSUES

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS

AND REPORT ANY OMISSIONS OR DISCRENCIES TO THE

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DO NOT SCALE THE DRAWINGS

DATE

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OSEG
Ottawa Sports and Entertainment Group

BRISBANE BROOK BEYOND ARCHITECTS
14 BLOOR ST. 4TH FLOOR
TORONTO, ON M5H 3G8
(416) 591-8999

ENTUITIVE

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

STRUCTURAL ENGINEER

TWIP
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

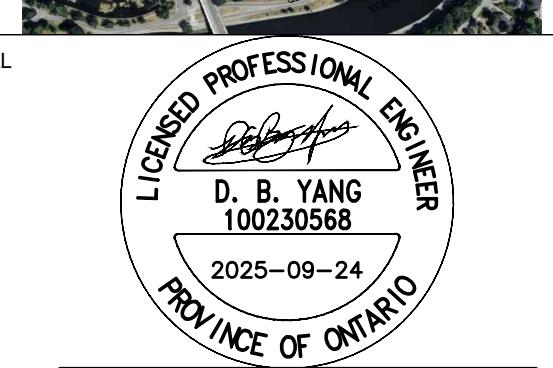
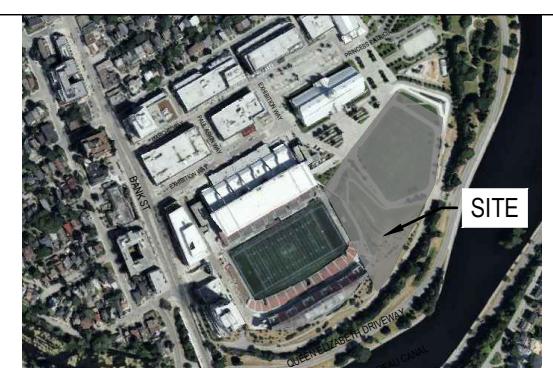
WSP
2011 QUEENSVIEW DR.
OTTAWA, ONTARIO K2B 8K2
(613) 829-2800

CIVIL ENGINEER

NO.	DESCRIPTION	DATE
13	REVISED AS PER CITY COMMENTS	2025-09-24
12	ISSUED FOR PERMIT COMMENTS	2025-08-16
11	ISSUED FOR 100% CDS FOR TENDER	2025-06-12
10	ISSUED FOR CDS UPDATE	2025-05-09
9	ISSUED FOR 100% C CLASS A ESTIMATE	2025-03-26
8	ISSUED FOR C UPDATE	2025-03-19
7	REVISED AS PER CITY COMMENTS	2025-03-07
6	ISSUED FOR C UPDATE	2025-02-28
5	ISSUED FOR C UPDATE	2025-02-22
4	REVISED AS PER CITY COMMENTS	2025-01-15
3	ISSUED FOR 80% DD - CLASS B ESTIMATE	2024-11-15
2	REVISED AS PER CITY COMMENTS	2024-09-13
1	ISSUED FOR SPA	2024-09-07

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



NOT FOR CONSTRUCTION

DRAWN J.T.
DATE 2025/09/24
CHECKED W.Y.

LANSDOWNE EVENT CENTRE
945 & 1015 BANK STREET

DWG. TITLE

POST-DRAINAGE AREA PLAN

SCALE 1:750 DWG. NO.

PROJ. NO. C08

DATE PLOTTED

1:750

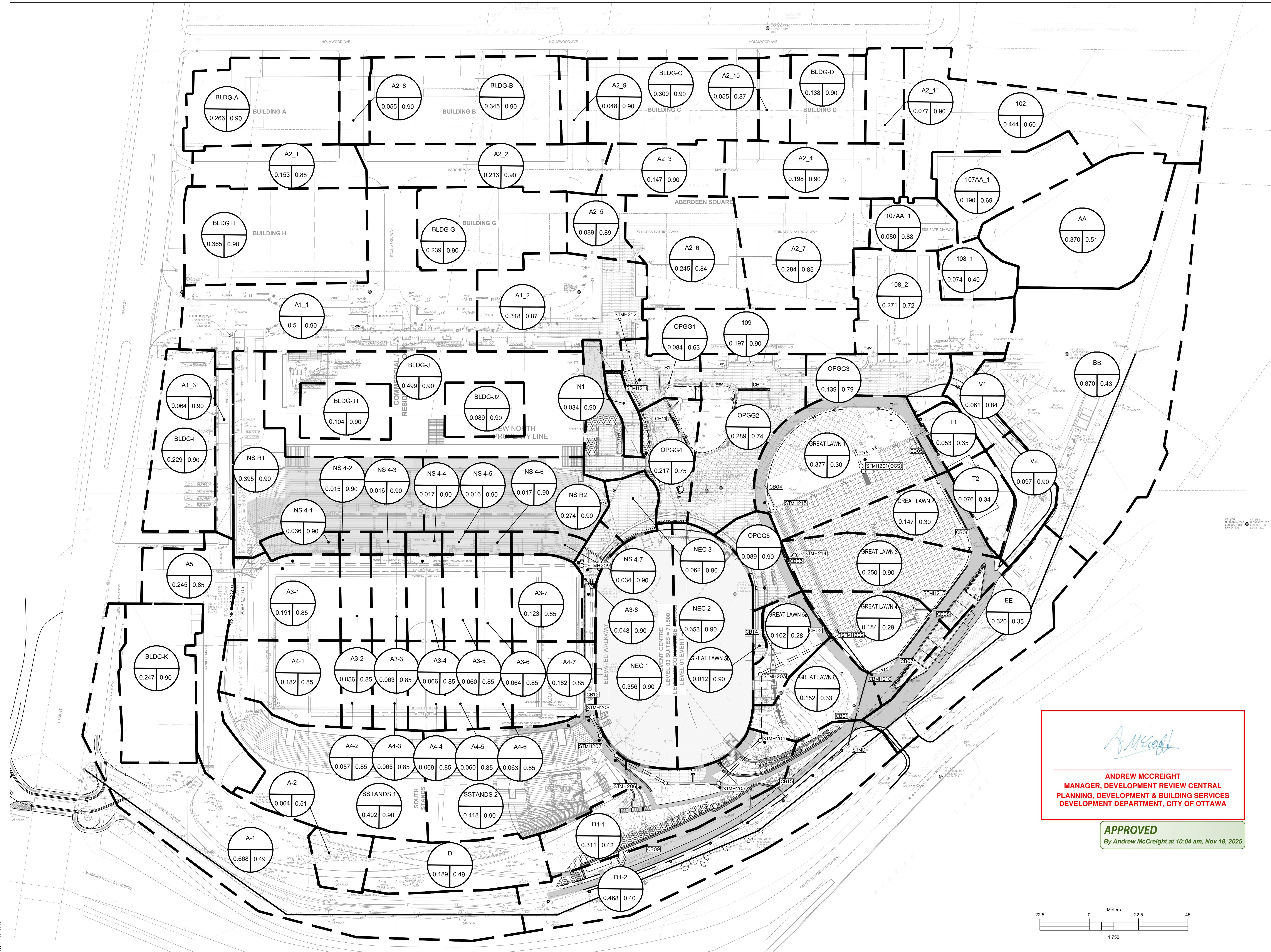
#D07-12-24-0082

Andrew McCright

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

APPROVED
By Andrew McCright at 10:04 am, Nov 18, 2025

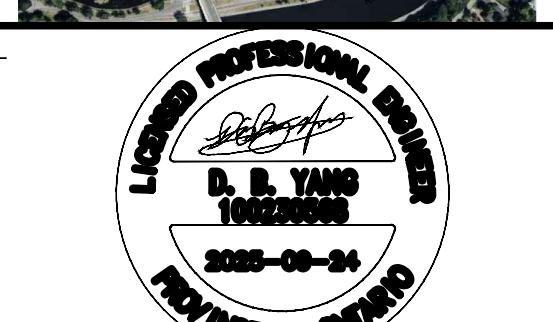
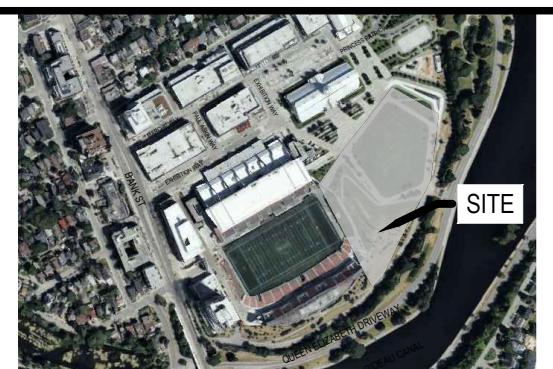
DATE 2025/11/18
TIME 10:04:00 AM
USER ANDREW MCCREIGHT



13	REVISED AS PER CITY COMMENTS	2025-09-24
12	REVISED AS PER CITY COMMENTS	2025-06-20
11	ISSUED FOR 100% CDS FOR TENDER	2025-06-12
10	ISSUED FOR CDR UPDATE	2025-05-09
9	ISSUED FOR CDR UPDATE	2025-03-19
8	ISSUED FOR CDR UPDATE	2025-03-19
7	REVISED AS PER CITY COMMENTS	2025-01-15
6	ISSUED FOR CDR UPDATE	2025-02-28
5	ISSUED FOR CDR UPDATE	2025-02-28
4	REVISED AS PER CITY COMMENTS	2024-11-15
3	ISSUED AS PER CITY COMMENTS	2024-09-15
2	REVISED AS PER CITY COMMENTS	2024-08-07
1	ISSUED FOR SPA	2024-08-07

REVISIONS/ ISSUES

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DO NOT SCALE THE DRAWINGS



SEAL

NOT FOR CONSTRUCTION
DRAWN J.T
DATE 2025/09/24
CHECKED W.Y

LANSDOWNE EVENT CENTRE

945 & 1015 BANK STREET

OVERALL SERVICING PLAN

SCALE 1:750 DWG. NO. C09

PROJ. NO. CA0033920.1056

#D01-12-24-0082

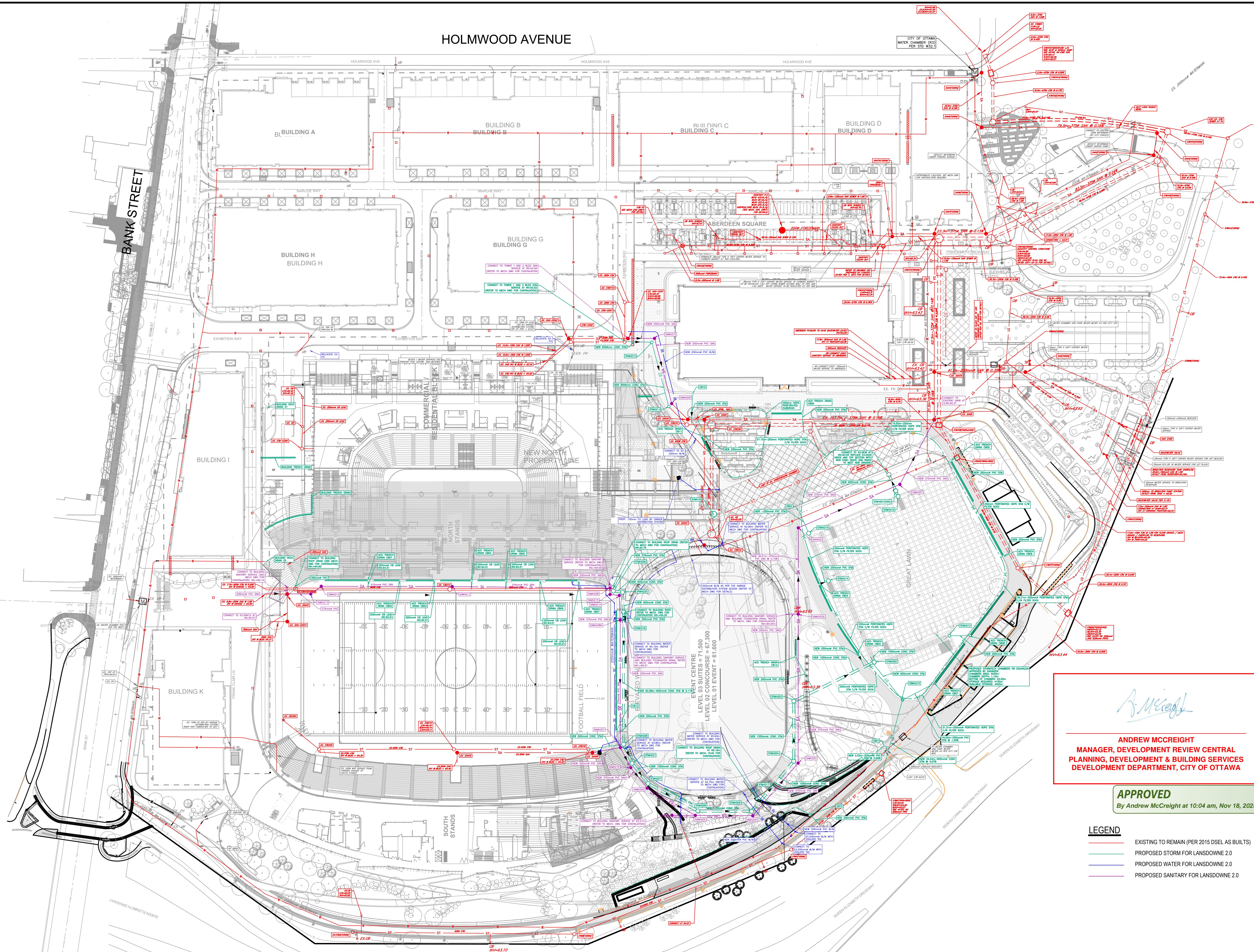
DATE PLOTTED

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

APPROVED
By Andrew McCright at 10:04 am, Nov 18, 2025

LEGEND

- EXISTING TO REMAIN (PER 2015 DSEL AS BUILT)
- PROPOSED STORM FOR LANSDOWNE 2.0
- PROPOSED WATER FOR LANSDOWNE 2.0
- PROPOSED SANITARY FOR LANSDOWNE 2.0



GENERAL		STORM SEWERS AND STRUCTURES		EROSION AND SEDIMENT CONTROL		BENCHMARK TABLE		NOTES AND DETAILS																																																																																															
<p>1. DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND LANDSCAPE DRAWINGS.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>7. TOPOGRAPHIC SURVEY COMPLETED AND PROVIDED BY STANTEC GEOMATICS LTD, DATED JANUARY 22, 2025. CONTRACTOR TO VERIFY IN THE FIELD PRIOR TO CONSTRUCTION OF ANY WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.</p> <p>8. ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS. VERIFY THAT JOB BENCHMARKS HAVE NOT BEEN ALTERED OR DISTURBED.</p> <p>9. ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE OR DRAIN OUTLETS ARE PROVIDED.</p> <p>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.</p> <p>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.</p> <p>12. ABUTTING PROPERTY GRADES TO BE MATCHED.</p> <p>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.</p> <p>14. MINIMIZE DISTURBANCE TO EXISTING VEGETATION DURING THE EXECUTION OF ALL WORKS.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>19. PROVIDE CCTV INSPECTION REPORT FOR ALL SEWERS AND CATCHBASIN LEADS 200MM DIAMETER AND LARGER. REPEAT CCTV INSPECTION FOLLOWING RECTIFICATION OF ANY DEFICIENCIES.</p> <p>20. REPORT REFERENCES</p> <p>20.1. GEOTECHNICAL INVESTIGATION - PROPOSED NORTH SIDE STANDS LANSDOWNE PARK REDEVELOPMENT, REPORT NO. PG6655-2, DECEMBER 2024, BY PATTERSON GROUP.</p> <p>20.2. FUNCTIONAL SERVICING AND STORMWATER MANAGEMENT REPORT FOR LANSDOWNE LIVE OTTAWA SPORT AND ENTERTAINMENT GROUP, PROJECT NO. 09-378, JANUARY 2022, BY DSEL.</p> <p>20.3. FUNCTIONAL SERVICING AND STORMWATER MANAGEMENT STUDY FOR LANSDOWNE PARK REDEVELOPMENT 2.0, PROJECT NO. CA000286_1662, SEPTEMBER 2023, BY WSP.</p> <p>20.4. STORMWATER MANAGEMENT DESIGN REPORT FOR LANSDOWNE URBAN PARK, FEBRUARY 2012, BY STANTEC CONSULTING LTD.</p> <p>20.5. SERVICING REPORT FOR LANSDOWNE PARK EVENT CENTRE, REPORT NO CA0033920.1056, MARCH 07, 2025, PREPARED BY WSP.</p> <p>20.6. STORMWATER MANAGEMENT DESIGN REPORT FOR LANSDOWNE PARK EVENT CENTRE, REPORT NO CA0033920.1056, MARCH 07, 2025, PREPARED BY WSP.</p> <p>20.7. SERVICING REPORT FOR LANSDOWNE PARK NORTH SIDE STANDS NO CA0043476.7969, DECEMBER 2024, PREPARED BY WSP.</p> <p>20.8. SERVICING REPORT FOR LANSDOWNE PARK NORTH SIDE STANDS NO CA0043476.7969, DECEMBER 2024, PREPARED BY WSP.</p> <p>PARKING LOT AND WORK IN PUBLIC RIGHTS OF WAY</p> <p>1. CONTRACTOR TO REINSTATE ROAD CUTS AS PER CITY OF OTTAWA DETAIL R10.</p> <p>2. GEOTECHNICAL INVESTIGATION - PROPOSED NORTH SIDE STANDS LANSDOWNE PARK REDEVELOPMENT, REPORT NO. PG6655-2, DECEMBER 2024, BY PATTERSON GROUP.</p> <p>3. CONTRACTOR TO PREPARE SUBGRADE, INCLUDING PROOFROLLING, TO THE SATISFACTION OF THE GEOTECHNICAL CONSULTANT PRIOR TO THE COMMENCEMENT OF PLACEMENT OF GRANULAR B MATERIAL.</p> <p>4. FILL TO BE PLACED AND COMPAKTED PER THE GEOTECHNICAL REPORT REQUIREMENTS.</p> <p>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.</p> <p>6. GRANULAR A MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL CONSULTANT OF GRANULAR B PLACEMENT.</p> <p>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.</p> <p>8. ASPHALT MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL CONSULTANT OF GRANULAR A PLACEMENT.</p> <p>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.</p> <p>10. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING LINE AND GRADE IN ACCORDANCE WITH THE PLANS, AND FOR PROVIDING THE CONSULTANT WITH VERIFICATION PRIOR TO PLACEMENT.</p> <p>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.</p> <p>12. PAVEMENT STRUCTURE (MATERIAL TYPES AND THICKNESS) TO BE AS SPECIFIED IN THE GEOTECHNICAL REPORT.</p>		<p>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.</p> <p>2. STORM SEWERS 450mm DIAMETER AND SMALLER SHALL BE PVC SDR-35, WITH RUBBER GASKET PER CSA A-257.3.</p> <p>3. STORM SEWER LARGER THAN 450mm SHALL BE REINFORCED CONCRETE CLASS 100D.</p> <p>4. SEWER BEDDING AS PER CITY OF OTTAWA DETAIL S6.</p> <p>5. ALL STORM MANHOLES TO BE AS PER STORM STRUCTURE TABLE.</p> <p>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.</p> <p>7. ALL CATCHBASIN LEADS TO BE MINIMUM 200mm DIAMETER AT MINIMUM 1.0% SLOPE UNLESS OTHERWISE SPECIFIED.</p> <p>8. STORM CATCHBASINS AS PER OPSD 705.010 AND FRAME/COVER AS PER CITY STANDARD DRAWINGS S19. STORM CBMHS AS INDICATED IN TABLE WITH SUMP, ADJUSTMENT SECTIONS SHALL BE AS PER OPSD 704.010.</p> <p>9. INSTALLATION OF FLOW CONTROL ICD'S TO BE VERIFIED BY QUALITY VERIFICATION ENGINEER RETAINED BY CONTRACTOR.</p> <p>10. PROVIDE BACKWATER VALVE ON FOUNDATION DRAIN, STORM DISCHARGE, AND OVERFLOW DISCHARGE PER S14.</p> <p>11. ALL CATCHBASINS EXCLUDING LANDSCAPE CATCHBASINS TO HAVE 150 MM 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*</p>		<p>** CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION, MONITORING, REPAIR AND REMOVAL OF ALL EROSION AND SEDIMENT CONTROL FEATURES. **</p> <p>1. PRIOR TO START OF CONSTRUCTION:</p> <ul style="list-style-type: none"> 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. <p>2. DURING CONSTRUCTION:</p> <ul style="list-style-type: none"> 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. 		<table border="1"> <thead> <tr> <th>Point No.</th> <th>Northing</th> <th>Easting</th> <th>Elev</th> </tr> </thead> <tbody> <tr><td>CC #1</td><td>5029149.213</td><td>368806.860</td><td></td></tr> <tr><td>CC #2</td><td>5029243.952</td><td>368876.257</td><td></td></tr> <tr><td>CC #3</td><td>5029193.203</td><td>368705.571</td><td>65.412</td></tr> <tr><td>CC #6</td><td>5029144.760</td><td>368623.492</td><td>66.742</td></tr> <tr><td>CC #7</td><td>5029095.379</td><td>368579.045</td><td>67.506</td></tr> <tr><td>CC #8</td><td>5029101.070</td><td>368549.781</td><td>67.805</td></tr> <tr><td>CC #9</td><td>5028989.253</td><td>368641.460</td><td>69.256</td></tr> <tr><td>CP #87</td><td>5029086.967</td><td>368960.129</td><td>64.574</td></tr> <tr><td>CP #88</td><td>5029257.273</td><td>368902.685</td><td>64.639</td></tr> <tr><td>CP #102</td><td>5029082.645</td><td>368877.952</td><td>65.027</td></tr> <tr><td>CP #103</td><td>5029112.963</td><td>368813.748</td><td></td></tr> <tr><td>CP #104</td><td>5029110.951</td><td>368837.055</td><td>65.020</td></tr> <tr><td>CP #105</td><td>5029144.819</td><td>368801.911</td><td>65.107</td></tr> <tr><td>CP #606</td><td>5029086.150</td><td>368805.429</td><td></td></tr> <tr><td>CPW #83</td><td>5028853.673</td><td>368573.563</td><td>65.326</td></tr> <tr><td>SPK #4</td><td>5029115.901</td><td>368853.680</td><td></td></tr> <tr><td>SPK #85</td><td>5028866.914</td><td>368672.574</td><td>65.202</td></tr> <tr><td>SPK #7352</td><td>5029056.087</td><td>368811.849</td><td>71.292</td></tr> <tr><td>SPK #8928</td><td>5029145.040</td><td>368779.868</td><td>66.016</td></tr> <tr><td>SPK #8435</td><td>5029089.179</td><td>368788.229</td><td>68.714</td></tr> <tr><td>PKN #8838</td><td>5029023.162</td><td>368892.308</td><td>64.954</td></tr> <tr><td>TARGET ON VAIL #7696</td><td>5028924.093</td><td>368706.883</td><td>89.744</td></tr> <tr><td>MAG #20001</td><td>5029282.143</td><td>368911.384</td><td>65.242</td></tr> </tbody> </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	368902.685	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 #606	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
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<p>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.</p> <p>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-182.3.4.</p> <p>3. SEWER BEDDING AS PER CITY OF OTTAWA DETAIL S6.</p> <p>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.</p> <p>5. MAINTENANCE HOLE BENCHING AND PIPE OPENING ALTERNATIVES AS PER THE OPSD 701.021</p> <p>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.</p> <p>7. PROVIDE BACKWATER VALVE FOR BUILDING SANITARY SERVICES PER S14.1</p> <p>WATERMAIN</p> <p>1. ALL WATERMAIN AND WATERMAIN APPURTENANCES, MATERIALS, CONSTRUCTION AND TESTING METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA AND MINISTRY OF ENVIRONMENT STANDARDS AND SPECIFICATIONS.</p> <p>2. ALL WATERMAIN 300mm DIAMETER AND SMALLER TO BE POLY VINYL CHLORIDE (PVC) CLASS 150 DR 18 MEETING AWWA SPECIFICATION C90.</p> <p>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.</p> <p>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.</p> <p>5. CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS AS PER CITY OF OTTAWA STANDARD W40 & W42.</p> <p>6. ALL VALVES AND VALVE BOXES AND CHAMBERS, HYDRANTS, AND HYDRANT VALVES AND ASSEMBLES SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARD</p> <p>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.</p> <p>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.</p>		<p>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 EXISTING 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 EXISTING NEW CATCH BASIN DITCH INLET EXISTING NEW SANITARY MANHOLE EXISTING NEW WATERMAIN VALVE EXISTING NEW WATERMAIN CONNECTION EXISTING NEW WATERMAIN 45° BEND EXISTING NEW SERVICING CAP EXISTING OVER FLOW DIRECTION EXISTING PROPOSED SURFACE SLOPE EXISTING PROPOSED TRENCH DRAIN EXISTING PROPOSED INTERLOCK EXISTING PROPOSED ASPHALT PAVEMENT EXISTING PROPOSED TREES EXISTING PROPOSED GAS METER</p> <p>REMOVALS LEGEND:</p> <p>ST: CURB REMOVAL SA: STORM REMOVAL W: WATERMAIN REMOVAL FENCE: FENCE REMOVAL RD: FULL DEPTH ASPHALT REMOVAL GA: GREEN AREA/INTERLOCK AREA REMOVAL CS: CONCRETE SIDEWALK REMOVAL GR: GRAVEL ROAD REMOVAL RW: RETAINING WALL REMOVAL CB: CATCH BASIN REMOVAL SM: STORM MANHOLE REMOVAL SM: SANITARY MANHOLE REMOVAL FH: FIRE HYDRANT REMOVAL BL: BOLLAR REMOVAL LS: LIGHT STAND REMOVAL</p> <p>ESC LEGEND:</p> <p>SD: LIGHT DUTY SILT FENCE (OPSD 219.110) FC: FILTER CLOTH PROTECTION MM: MUD MAT</p> <p>DRAINAGE AREA LEGEND:</p> <p>DA: DRAINAGE AREA SYMBOL AD: AREA DEFECTS RC: RUNOFF COEFFICIENT DB: DRAINAGE AREA BOUNDARY</p>																																																																																																					
<p>Table 2 - Recommended Light Duty Asphalt Pavement Structure - Car Only Parking Areas</p> <table border="1"> <thead> <tr> <th>Thickness (mm)</th> <th>Material Description</th> </tr> </thead> <tbody> <tr><td>50</td><td>Wear Course - HL-3 or Superpave 12.5 Asphaltic Concrete</td></tr> <tr><td>150</td><td>Base - OPSS Granular A Crushed Stone</td></tr> <tr><td>300</td><td>SUBBASE - OPSS Granular B Type II</td></tr> </tbody> </table> <p>SUBGRADE - Either approved fill, in-situ, or OPSS Granular B Type I or II material placed on in-situ soil or fill.</p> <p>Table 3 - Recommended Asphalt Pavement Structure - Access Lanes and Heavy Loading Parking Areas</p> <table border="1"> <thead> <tr> <th>Thickness (mm)</th> <th>Material Description</th> </tr> </thead> <tbody> <tr><td>40</td><td>Wear Course - Superpave 12.5 Asphaltic Concrete</td></tr> <tr><td>50</td><td>Binder Course - Superpave 19.0 Asphaltic Concrete</td></tr> <tr><td>150</td><td>Base - OPSS Granular A Crushed Stone</td></tr> <tr><td>300</td><td>SUBBASE - OPSS Granular B Type II</td></tr> </tbody> </table> <p>SUBGRADE - Either approved fill, in-situ, or OPSS Granular B Type I or II material placed on in-situ soil or fill.</p>		Thickness (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	Thickness (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	<p>Typical Siltsack® Construction - Type B</p> <p>Diagram showing a cross-section of a catchbasin with a siltsack installed inside. The siltsack is a permeable filter bag designed to trap sediment. Dimensions shown are L (length), W (width), D (depth), and H (height).</p>																																																																																			
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STRUCTURAL ENGINEERS



The logo for WMP (Weston Mechanical Protection) features the letters 'WMP' in a bold, stylized, blocky font. The 'W' is on the left, the 'M' is in the center, and the 'P' is on the right. The 'W' and 'M' are slightly taller than the 'P'.

MULVEY & BANANI

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LANDSCAPE ARCHITECTURE

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CIVIL ENG

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ISSUED FOR 100% CD FOR TENDER	20
ISSUED FOR CD UPDATE	20
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ISSUED FOR SITE PLAN APPLICATION	20
ISSUED FOR UDRP	20
DESCRIPTION	

REVISIONS/ ISSUES

CHTECT BEFORE PROCEEDING WITH THE WORK.
NOT SCALE THE DRAWINGS

An aerial photograph showing the Queen Elizabeth II HARVEY X Stadium, a large green rectangular field with a red running track and a white building. The stadium is situated next to a canal, with a bridge visible. The surrounding area includes residential buildings and roads.

A circular stamp with the words "LICENCED PROFESSIONAL ENGINEER" around the perimeter. In the center, there is a handwritten signature that appears to read "See Page 2".

NOT FOR CONSTRUCTION

A circular compass rose with a diagonal hatching pattern in the upper right quadrant. The word "NORTH" is printed in capital letters within this hatched area.

11. **What is the primary purpose of the following statement?**

LANSDOWNE NSS

6. TITLE

LE DWG. NO. 1:300

J. NO. CA0043476.7969	C02
	#19

