

[illegible]

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

- [illegible]

1. ALL WATERMAIN AND WATERMAIN APPURTENANCES MATERIALS, CONSTRUCTION AND TESTING METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA MANUAL OF ENVIRONMENT STANDARDS AND SPECIFICATIONS.
2. ALL WATERMAIN 300mm DIAMETER AND SMALLER POLY VINYL CHLORIDE (PVC) CLASS 150 DR 18 MEE AWWA SPECIFICATION C900.
3. ALL WATERMAIN TO BE INSTALLED AT MINIMUM CO 2.4m BELOW FINISHED GRADE. WHERE WATERMAIN CROSS OVER OTHER UTILITIES, A MINIMUM 0.30m CLEARANCE SHALL BE MAINTAINED; WHERE WATER MAIN CROSS UNDER OTHER UTILITIES, A MINIMUM 0.50m CLEARANCE SHALL BE MAINTAINED. WHERE THE MAIN SHALL CROSS OVER OR UNDER A RAILWAY, THE MAIN SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARDS W25 AND W25.2. 2.4m MINIMUM

1. ALL SANITARY SEWER, SANITARY SEWER APPURTENANCES AND CONSTRUCTION METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. PROVIDE QCTV INSPECTION REPORTS FOR ALL NEW SANITARY PIPING. PROVIDE DYE TESTING FOR NEW SERVICES.
2. SANITARY SEWER PIPE SIZE 150mm DIAMETER AND GREATER TO BE PVC SDR35 (UNLESS SPECIFIED OTHERWISE) WITH RIGID JOINTS (TYPE JOINTS IN CONFORMANCE WITH CSA-B182.3.4).
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 TO BE AS PER OPSD 701.01. FRAME AND COVER CITY OF OTTAWA STANDARD S35, OR APPROVED BY THE ENGINEER.

1. ALL STORM SEWER MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE CURRENT CITY OF ATLANTA STANDARDS AND SPECIFICATIONS. PROVIDE CCTV VIDEO RECORDS FOR ALL EXISTING AND NEW STORM SEWERS, SERVICES AND KE LEADS.
2. STORM SEWERS 375mm DIAMETER AND SMALLER SHALL BE:
 - a. C-150 OR C-200 PER ASTM C-558, CSA A-507.3.
3. STORM SEWERS 450mm AND LARGER SHALL BE:
 - a. REINFORCED CONCRETE CLASS 100.
4. SEWER BEDDING AS PER CITY OF ATLANTA DETAIL, S6.
5. ALL STORM MANHOLES TO BE AS PER MANHOLE AND CATCHPIT DETAIL, S7.
6. ANY NEW OR EXISTING STORM SEWERS WITH LESS THAN 2.0m COVER REQUIRES THEIR INSULATION AS PER CITY OF ATLANTA STANDARD S35, OR APPROVED BY THE ENGINEER.
7. KE IN LANDSCAPE AREAS SHALL BE AS PER CITY OF ATLANTA STANDARD S26, S30 AND S31.
8. CATCHPIT IN LEADS TO BE AS PER DETAIL 200mm DIAMETER AT MINIMUM 1.0m DEPTH UNLESS OTHERWISE SPECIFIED.
9. STORM CATCHBASINS AS PER SDP 705.010 AND FRAMEWORKS AS PER CITY STANDARD DRAWINGS S15.1. CATCHPIT AND CATCHBASIN COVERS AND ADJUSTMENT SECTIONS SHALL BE AS PER SDP 704.010.
10. INSTALLATION OF FLOW CONTROL ICES TO BE VERIFIED BY QUALIFICATION ENGINEER RETAINED BY CONTRACTOR.

1. EXCAVATE AND REMOVE ALL ORGANIC MATERIAL, DEBRIS LOCATED WITHIN THE PROPOSED BUILDING FOOTPRINT AND EXISTING DRIVEWAYS, TRENCHES. EXCESS MATERIAL REMOVAL FROM SITE FOLLOW THE GEOTECHNICAL AND ENVIRONMENTAL ENGINEER'S RECOMMENDATIONS.
2. CONTRACTOR TO STOCKPILE UNUSABLE FILL TO BE REMOVED FROM SITE TO ALLOW THE GEOTECHNICAL ENGINEER TO CONDUCT FIELD TESTING. CONTRACTOR TO PROVIDE GUIDANCE TO CONTRACTOR PRIOR TO EROSION CONTROL MEASURE AS TO BE APPLIED TO EXPOSED SOILS TO PREVENT EROSION. MEASURES AS PER THE REQUIREMENTS OF OPCS 100.
3. IF CONTAMINATION HAZARDOUS MATERIAL IS SUSPECTED DURING CONSTRUCTION (E.G. STAINING, ODORS, etc.) CONTRACTOR MUST IMMEDIATELY STOP WORK, PROJECT LEADER, PRIME CONSULTANT, AND ENVIRONMENTAL ENGINEER MUST BE NOTIFIED. IF NOT PROCEED ACCORDING TO FEDERAL AND PROVINCIAL REGULATIONS, CONTRACTOR MUST OBTAIN THE GUIDANCE OF A QUALIFIED PERSON. MUST DETEST ADDITIONAL SAMPING (INCLUDING LEACHATE TESTS) AS REQUIRED BY THE ENVIRONMENTAL ENGINEER UNDER OREG. 406/19 (AS AMENDED).
4. EXCESS SOIL MANAGEMENT, TESTING AND DISPOSAL COMPLY WITH OREG. 406/19.
5. ALL SOIL HAULAGE RECORDS SHALL BE KEPT AND SUBMITTED TO THE CONTRACTOR AND SUBMITTED CONSULTANT.
6. ALL EXCESS MATERIAL TO BE HAULED OFFSITE AN APPROVED DUMP SITE BY CONTRACTOR.

1. CONTRACTOR TO REINSTATE ROAD CUTS AS PER CITY OF OTTAWA DETAIL R10.
2. CONTRACTOR TO PREPARE SUBGRADE, INCLUDING BROODROLLING, TO THE SATISFACTION OF THE

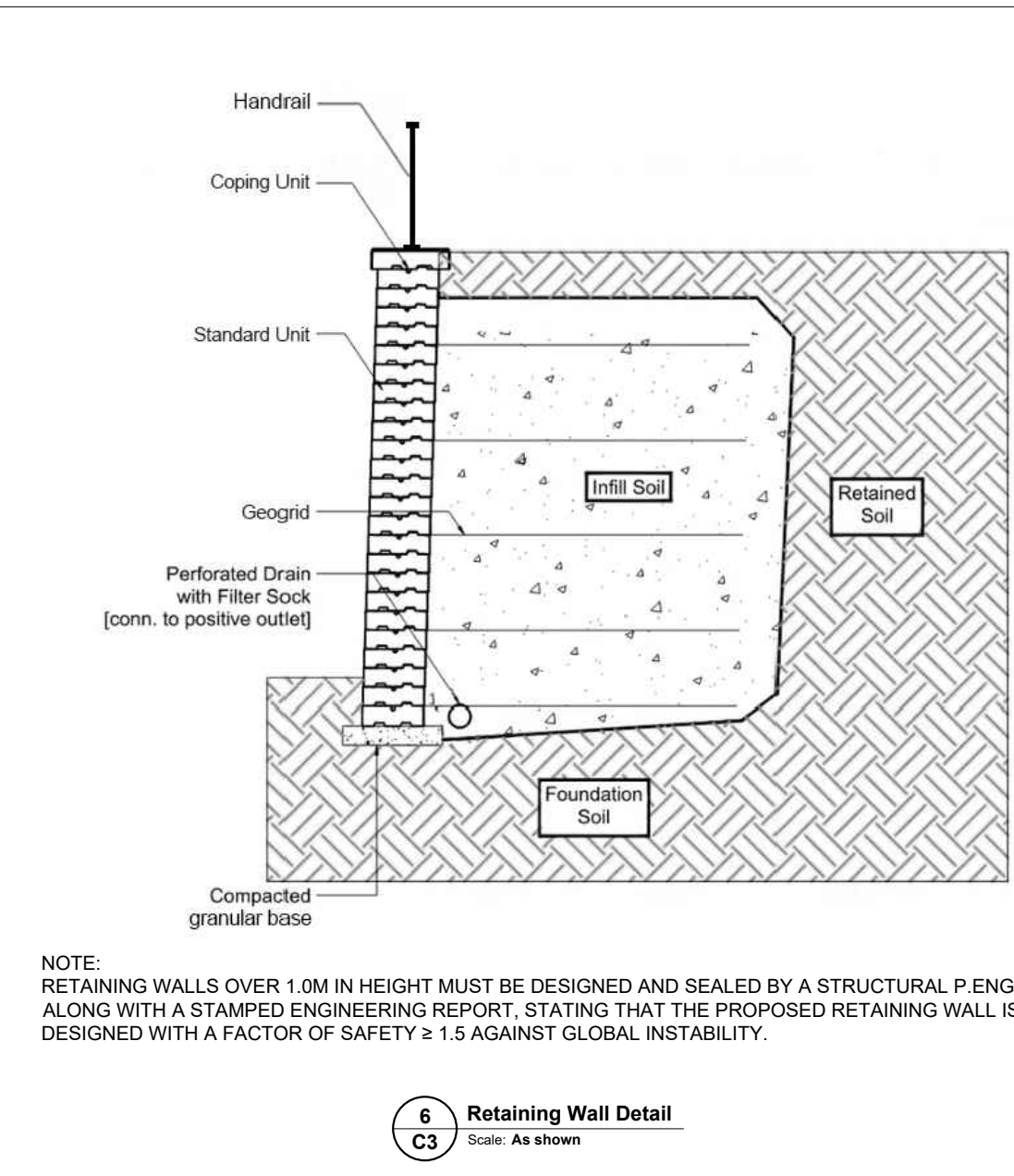
- COMMECMENT OF PLACEMENT OF GRANULAR B
3. FILL TO BE PLACED AND COMPACTED PER THE RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT.
4. CONTRACTOR TO SUPPLY, PLACE AND COMPACT GRANULAR MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT. THE CONTRACTOR SHALL PROVIDE THE GEOTECHNICAL CONSULTANT WITH THE TEST RESULTS AND CERTIFICATION OF THE GRANULAR MATERIAL FOR TESTING AND CERTIFICATION FROM THE STATE OF TEXAS.
5. MATERIAL MEETS THE FILL TENDENCY REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.
6. GRANULAR MATERIAL TO BE PLACED ONLY ON THE EXISTING GRANULAR MATERIAL AND NOT ON THE EXISTING GRANULAR B PLACEMENT.
7. CONTRACTOR TO SUPPLY, PLACE AND COMPACT GRANULAR MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT. THE CONTRACTOR TO PROVIDE CONSULTANT WITH SAMPLES OF THE GRANULAR MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL CONSULTANT. THE CONTRACTOR SHALL PROVIDE THE GEOTECHNICAL CONSULTANT WITH THE TEST RESULTS AND CERTIFICATION OF THE GRANULAR MATERIAL FOR TESTING AND CERTIFICATION FROM THE STATE OF TEXAS.
8. CONTRACTOR TO SUPPLY, PLACE AND COMPACT ASPHALT MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT. THE CONTRACTOR SHALL PROVIDE CONSULTANT WITH SAMPLES OF THE ASPHALT MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL CONSULTANT. THE CONTRACTOR SHALL PROVIDE THE GEOTECHNICAL CONSULTANT WITH THE TEST RESULTS AND CERTIFICATION OF THE ASPHALT MATERIAL FOR TESTING AND CERTIFICATION FROM THE STATE OF TEXAS.
9. CONTRACTOR TO BE RESPONSIBLE FOR ESTABLISHING LINE AND GRADE OF THE GRANULAR B PLACEMENT AND FOR PROVIDING THE CONSULTANT WITH THE TEST RESULTS AND CERTIFICATION OF THE GRANULAR B PLACEMENT.
10. ALL EXCESS MATERIAL TO BE HAULED OFFSITE AND DISPOSED OF AT AN APPROVED DUMP SITE. SHOULD THE CONTRACTOR BE REQUIRED TO EXCEED THE QUANTITY OF GRANULAR B PLACEMENT, THE CONTRACTOR IS TO NOTIFY CONSULTANT. CONSULTANT SHALL BE RESPONSIBLE FOR PROVIDING THE GRANULAR B PLACEMENT TO THE CONTRACTOR.
11. PAVEMENT STRUCTURE, MATERIAL TYPES AND THICKNESS TO BE DETERMINED BY THE GEOTECHNICAL CONSULTANT. THE CONTRACTOR SHALL PROVIDE THE GEOTECHNICAL REPORT AND SHOWINGS SPECIFIED IN THE GEOTECHNICAL REPORT AND THOSE

FOR HEAVY DUTY AND LIGHT DUTY AREAS TO BE AS SPECIFIED IN THE GEOTECHNICAL REPORT AND SHOWN ON THE PLANS.

| ICD SCHEDULE | | | | |
|--------------|----------------|---------------|----------------------|-----------------|
| LOCATION | PIPE SIZE (mm) | ICD SIZE (mm) | INVERT ELEVATION (m) | FLOW RATE (lps) |
| CB-3 | 300 | 99 | 70.12 | 32.0 |
| CBM#3 | 450 | 94 | 70.00 | 32.8 |
| CBM#4 | 300 | 111 | 71.5 | 40.0 |
| CBM#4-5 | 300 | 117 | 70.78 | 46.90 |

| ID | DESCRIPTION | FINISHED GRADE (m) | TO WATERMAN (m) |
|----|-----------------------------------|--------------------|-----------------|
| ① | BUILDING CONNECTION | 73.30 | 70.90 |
| ② | EXISTING WATERMAN STUB CONNECTION | 72.52 | 70.10 |
| ③ | 45° HORIZONTAL BEND | 72.68 | 70.10 |
| ④ | 45° HORIZONTAL BEND | 72.55 | 70.10 |
| ⑤ | 45° HORIZONTAL BEND | 72.78 | 70.10 |
| ⑥ | TEE 150X150mm | 72.74 | 70.10 |
| ⑦ | SERVICE TEE | 71.30 | 68.90 |
| ⑧ | 45° HORIZONTAL BEND | 72.98 | 70.10 |
| ⑨ | 45° HORIZONTAL BEND | 73.03 | 70.10 |
| ⑩ | 45° HORIZONTAL BEND | 73.10 | 70.10 |
| ⑪ | 45° HORIZONTAL BEND | 73.12 | 70.10 |
| ⑫ | 45° HORIZONTAL BEND | 72.67 | 70.10 |
| ⑬ | 45° HORIZONTAL BEND | 72.72 | 70.10 |
| ⑭ | 45° HORIZONTAL BEND | 72.80 | 70.10 |

NOTE: PROVIDE MINIMUM 24in COVER OVER TO WATERMAN TO FINISHED GRADE, OTHERWISE PROVIDE THERMAL INSULATION 14-IN-AS PER DETAIL



NOTE:
RETAINING WALLS OVER 1.0M IN HEIGHT MUST BE DESIGNED AND SEALED BY A STRUCTURAL P.ENG
ALONG WITH A STAMPED ENGINEERING REPORT, STATING THAT THE PROPOSED RETAINING WALL IS
DESIGNED WITH A FACTOR OF SAFETY ≥ 1.5 AGAINST GLOBAL INSTABILITY.

| NEW STORM SEWER STRUCTURE SCHEDULE | | | | | |
|------------------------------------|----------------------|--------------------|--|---------------------------------------|------------------------|
| MANHOLE NO. | DESCRIPTION | T/IGRATE ELEVATION | INVERT ELEVATION / PIPE DIAMETER | OPSD No. | FRAME (CITY OF OTTAWA) |
| CB-1 | 600x600mm Catchbasin | 72.00 | N IN.V. : 70.54 - 300mmØ | 705.010 | S19 |
| CB-2 | 600x600mm Catchbasin | 72.61 | N IN.V. : 70.61 - 300mmØ | 705.010 | S19 |
| CB-3 | 600x600mm Catchbasin | 72.75 | W IN.V. : 70.77 - 300mmØ | 705.010 | S19 |
| CB-4 | 600x600mm Catchbasin | 73.40 | W IN.V. : 71.49 - 300mmØ | 705.010 | S19 |
| CBMH-1 | 1,200mmØ Manhole | 72.40 | S IN.V. : 70.51 - 300mmØ N IN.V. : 70.48 - 300mmØ | 701.010 | S25 / S28.1 |
| CBMH-2 | 1,200mmØ Manhole | 72.40 | S IN.V. : 70.23 - 300mmØ N IN.V. : 70.20 - 375mmØ | 701.010 | S25 / S28.1 |
| CBMH-3 | 1,200mmØ Manhole | 72.40 | S IN.V. : 69.89 - 375mmØ N IN.V. : 69.86 - 450mmØ | 701.010 | S25 / S28.1 |
| CBMH-4 | 1,200mmØ Manhole | 73.40 | E IN.V. : 71.43 - 300mmØ S IN.V. : 71.40 - 300mmØ | 701.010 | S25 / S28.1 |
| CBMH-5 | 1,200mmØ Manhole | 72.75 | E IN.V. : 70.71 - 300mmØ W IN.V. : 70.68 - 375mmØ | 701.010 | S25 / S28.1 |
| CBMH-6 | 1,200mmØ Manhole | 72.00 | S IN.V. : 70.33 - 300mmØ E IN.V. : 70.44 - 150mmØ W IN.V. : 70.30 - 300mmØ | 701.010 | S25 / S28.1 |
| CBMH-7 | 1,200mmØ Manhole | 72.00 | S IN.V. : 70.06 - 300mmØ N IN.V. : 71.00 - 150mmØ W IN.V. : 70.02 - 300mmØ | 701.010 | S25 / S28.1 |
| SAIH-1 | 1,200mmØ Manhole | 72.93 | E IN.V. : 69.96 - 200mmØ W IN.V. : 66.80 - 200mmØ W IN.V. : 66.77 - 200mmØ | 701.010 / 1003.010 DROP STRUCTURE TEE | S25 / S24 |
| STMH-1 | 1,500mmØ Manhole | 72.77 | N IN.V. : 68.82 - 525mmØ E IN.V. : 69.97 - 250mmØ E IN.V. : 68.80 - 200mmØ W IN.V. : 68.76 - 500mmØ | 701.011 / 1003.010 DROP STRUCTURE TEE | S25 / S24.1 |
| STMH-2 | 1,500mmØ Manhole | 73.15 | S IN.V. : 70.59 - 375mmØ E IN.V. : 69.29 - 450mmØ S IN.V. : 69.23 - 525mmØ N IN.V. : 69.26 - 250mmØ | 701.011 / 1003.010 DROP STRUCTURE TEE | S25 / S24.1 |
| STMH-3 | 1,200mmØ Manhole | 73.43 | N IN.V. : 71.26 - 300mmØ E IN.V. : 70.64 - 375mmØ S IN.V. : 70.57 - 375mmØ N IN.V. : 70.67 - 250mmØ | 701.010 / 1003.010 DROP STRUCTURE TEE | S25 / S24.1 |
| STMH-4 | 1,500mmØ Manhole | 72.88 | E IN.V. : 69.79 - 300mmØ S IN.V. : 69.82 - 450mmØ W IN.V. : 69.76 - 450mmØ | 701.011 | S25 / S24.1 |

AM April 4, 2025



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|---|--|---|
| 12 INTERNATIONAL DR. PEMBROKE, ON, K8A 6W5 T: 613-735-2507 PEMBROKE@JP2G.COM | 1150 MORRISON DR., #410 OTTAWA, ON, K2H 8S9 T: 613-828-7800 OTTAWA@JP2G.COM | 16 EDWARD ST. S., #211 ARNPRIOR, ON, K7S 3W4 T: 613-626-0780 ARNPRIOR@JP2G.COM |
|---|--|---|

| | | |
|-----|--|------------|
| 5 | ISSUED FOR CIVIL ADDENDUM #2 | 2025-04-07 |
| 4 | ISSUED FOR SPC REV-2.1 / CIVIL ADDENDUM #1 | 2025-03-27 |
| 3 | ISSUED FOR TENDER | 2025-02-25 |
| 2 | ISSUED FOR SITE PLAN CONTROL REV-2 | 2024-11-29 |
| 1 | ISSUED FOR SITE PLAN CONTROL REV-1 | 2024-09-13 |
| No. | DESCRIPTION | YYYY-MM-DD |

71 Bank Street, 7th Floor - Ottawa, Ontario K1P 5N2
tel. 613.224.0095 fax 613.224.9811

East Urban Centre Elementary School

700 Spring Valley Dr, Ottawa, ON
K1W 0H2



drawing title

Details, Notes and Schedules

| | |
|--------------------|-------------------------|
| scale As Shown | drawn by R.Ismail |
| date Sept. 2024 | checked by A.Sammour |
| project number | drawing number |

24-828

CONTRACTOR TO VERIFY ALL DIMENSIONS AND
NOTIFY THE ARCHITECT OF ANY DISCREPANCIES
BEFORE WORK COMMENCES.

DO NOT SCALE DRAWINGS

revision

LAN#19255

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