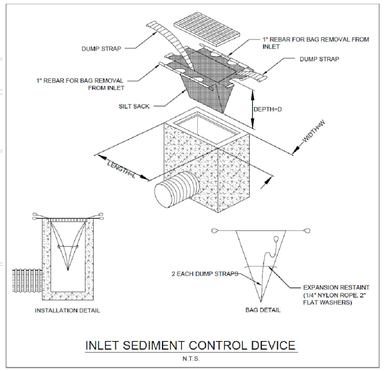
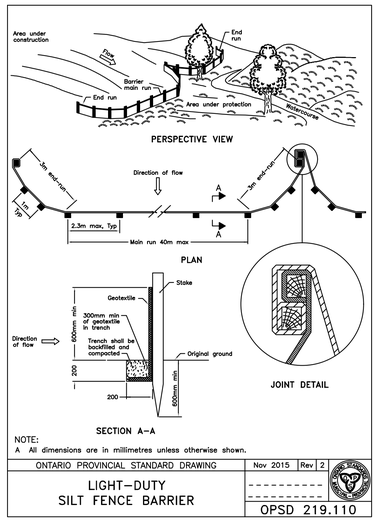
EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR IS TO INSTALL LIGHT-DUTY SILT FENCE BARRIER PER OPSD 219.110 ON ALL LEGAL BOUNDARIES OF THE SITE, AND SHALL PROTECT ALL CATCHBASINS AND OTHER STORM INLETS ADJACENT TO THE SITE WITH SEDIMENT TRAPS AND GEOTEXTILE BETWEEN THE FRAMES AND GRATES. GEOTEXTILE FOR SILT FENCE PER OPSS 1860, TABLE 3.
2. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE, DURING CONSTRUCTION ACTIVITIES. THIS INCLUDES LIMITING THE AMOUNT OF EXPOSED SOIL, TEMPORARY SEDIMENT INLET CONTROL DEVICES TO BE IMPLEMENTED DURING CONSTRUCTION ON ALL PROPOSED ROAD CATCHBASINS, REARYARD CATCHBASINS AND CATCHBASIN MANHOLES AND OTHER SEDIMENT TRAPS. NO RECYCLED GEOSOCK MATERIAL SHALL BE PERMITTED FOR USE ON SITE.
3. AT THE DISCRETION OF THE PROJECT MANAGER OR CITY OF OTTAWA, ADDITIONAL SILT CONTROL DEVICES SHALL BE INSTALLED AT DESIGNATED LOCATIONS.
4. EXCEPT AS PROVIDED IN PARAGRAPHS 4.1., and 4.2. BELOW, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS FEASIBLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED.
   - 4.1. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASE IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS FEASIBLE.
   - 4.2. WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 21 DAYS FROM WHEN ACTIVITIES CEASED, (E.G. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN 21 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF SITE BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASED.
5. SEDIMENT THAT IS ACCUMULATED BY THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED IN A MANNER THAT AVOIDS ESCAPE OF THE SEDIMENT TO THE DOWNSTREAM SIDE OF THE CONTROL MEASURE AND AVOIDS DAMAGE TO THE CONTROL MEASURE. SEDIMENT SHALL BE REMOVED TO THE LEVEL OF THE GRADE EXISTING AT THE TIME THE CONTROL MEASURE WAS CONSTRUCTED AND BE ACCORDING TO THE FOLLOWING:
   - 5.1. FOR LIGHT-DUTY SEDIMENT BARRIERS, ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE IT REACHES THE LESSER OF THE FOLLOWING:
     - 5.1.1. A DEPTH OF ONE-HALF THE EFFECTIVE HEIGHT OF THE CONTROL MEASURE.
     - 5.1.2. A DEPTH OF 300 MM IMMEDIATELY UPSTREAM OF THE CONTROL MEASURE.
   - 5.2. FOR ALL CONTROL MEASURES, ACCUMULATED SEDIMENT SHALL BE REMOVED AS NECESSARY TO PERFORM MAINTENANCE REPAIRS.
   - 5.3. ACCUMULATED SEDIMENT SHALL BE REMOVED PRIOR TO THE REMOVAL OF THE CONTROL MEASURE.
   - 5.4. ACCUMULATED SEDIMENT IS TO BE REMOVED AND DISPOSED OF AS PER OPSS 180.
6. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MONITORED TO ENSURE THEY ARE IN EFFECTIVE WORKING ORDER. THE CONDITION OF THE CONTROL MEASURES SHALL BE MONITORED PRIOR TO ANY FORECAST STORM EVENT AND FOLLOWING A STORM EVENT.
7. DUST CONTROL MEASURES SHOULD BE CONSIDERED PRIOR TO CLEARING AND GRADING. THE USE OF WATER, CALCIUM CHLORIDE FLAKES/SOLUTION OR MAGNESIUM CHLORIDE FLAKES/SOLUTION SHALL BE USED AS DUST SUPPRESSANTS AS PER OPSS 506. THIS IS TO LIMIT WIND EROSION OF SOILS WHICH MAY TRANSPORT SEDIMENTS OFFSITE, WHERE THEY MAY BE WASHED INTO THE RECEIVING WATER BY THE NEXT RAINSTORM.
8. ALL 'GREEN AREAS' TO BE TREATED WITH 150mm TOPSOIL AND SOD AS SOON AS FEASIBLE, AS PER OPSS 570.
9. TOPSOIL TO BE STRIPPED AND STOCKPILED FOR REHABILITATION. CLEAN FILL TO BE PLACED IN FILL AREAS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
10. ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER UNLESS OTHERWISE SPECIFIED.
11. STOCKPILED MATERIAL IS TO BE STORED AWAY FROM POTENTIAL RECEIVERS (E.G. STORM CATCHBASINS, MAINTENANCE HOLES), AND BE SURROUNDED BY EROSION CONTROL MEASURES WHERE MATERIAL IS LEFT IN PLACE IN EXCESS OF 14 DAYS.
12. IF REQUIRED, DEWATERING/SETTLING BASINS SHALL BE CONSTRUCTED AS PER OPSD 219.240 AND LOCATED ON FLAT GRADE UPSTREAM OF OTHER EXISTING MITIGATION MEASURES. WATERCOURSES SHALL NOT BE DIVERTED, OR BLOCKED, AND TEMPORARY WATERCOURSES CROSSINGS SHALL NOT BE CONSTRUCTED OR UTILIZED, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT. IF CLOSURE OF ANY PERMANENT WATER PASSAGE IS NECESSARY, THE CONTRACTOR SHALL RELEASE ANY STRANDED FISH TO THE OPEN PORTION OF THE WATERCOURSE WITHOUT HARM.
13. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM TO OPSS 577
14. WHERE DEWATERING IS REQUIRED, THE DISCHARGED WATER SHALL BE CONTROLLED IN ACCORDANCE WITH OPSS 518.
15. ALL SETTLING/FILTRATION BASINS SHALL BE EQUIPPED WITH TERRAFIX 27 OR GEOTEXTILE (OR APPROVED EQUIVALENT) AND SHALL BE CLEANED AND REPLACED AS REQUIRED.

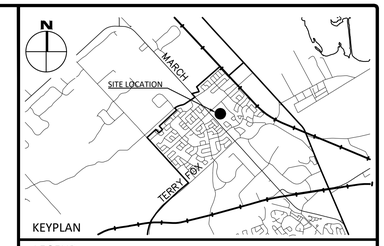


INLET SEDIMENT CONTROL DEVICE
N.T.S.



NOTE:
A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2015	Rev 2
LIGHT–DUTY SILT FENCE BARRIER		OPSD 219.110



KEYPLAN

LEGEND

- LEGAL BOUNDARY
- EXISTING FENCE
- EXISTING STORM STRUCTURE
- EXISTING CATCHBASIN
- EXISTING SANITARY STRUCTURE
- EXISTING FIRE HYDRANT
- EXISTING VALVE & VALVE BOX
- EXISTING HYDRO POLE
- EXISTING HYDRO
- EXISTING UTILITIES
- EXISTING ELEVATION
- PROPOSED SILT FENCE
- PROPOSED INLET SILT PROTECTION

No.	Revisions	Date
6	REISSUED FOR SITE PLAN APPLICATION	AUG. 26, 2024
5	REISSUED FOR SITE PLAN APPLICATION	JUN. 05, 2024
4	ISSUED FOR SHORING PERMIT	APR. 26, 2024
3	REISSUED FOR SITE PLAN APPLICATION	MAR. 15, 2024
2	ISSUED FOR SITE PLAN APPLICATION	NOV. 16, 2023
1	ISSUED FOR REVIEW	SEP. 29, 2023

Check and verify all dimensions before proceeding with the work. Do not scale drawings.

SCALE 1 : 300

0 5 10 15 20 25 30 Metres

McINTOSH PERRY
115 Walgreen Road, RR3, Carp, ON K0A 1L0
Tel: 613-836-2184 Fax: 613-836-3742
www.mcintoshperry.com

Stamp: PROFESSIONAL ENGINEER J. D. J. HEWSON 100596243 08/26/2024 PROVINCE OF ONTARIO

Client:
SINA
3030 BOUL. LE CARREFOUR, SUITE 1200,
LAVAL, QUÉBEC

Project:
RESIDENTIAL BUILDING
788 MARCH ROAD,
OTTAWA, ON

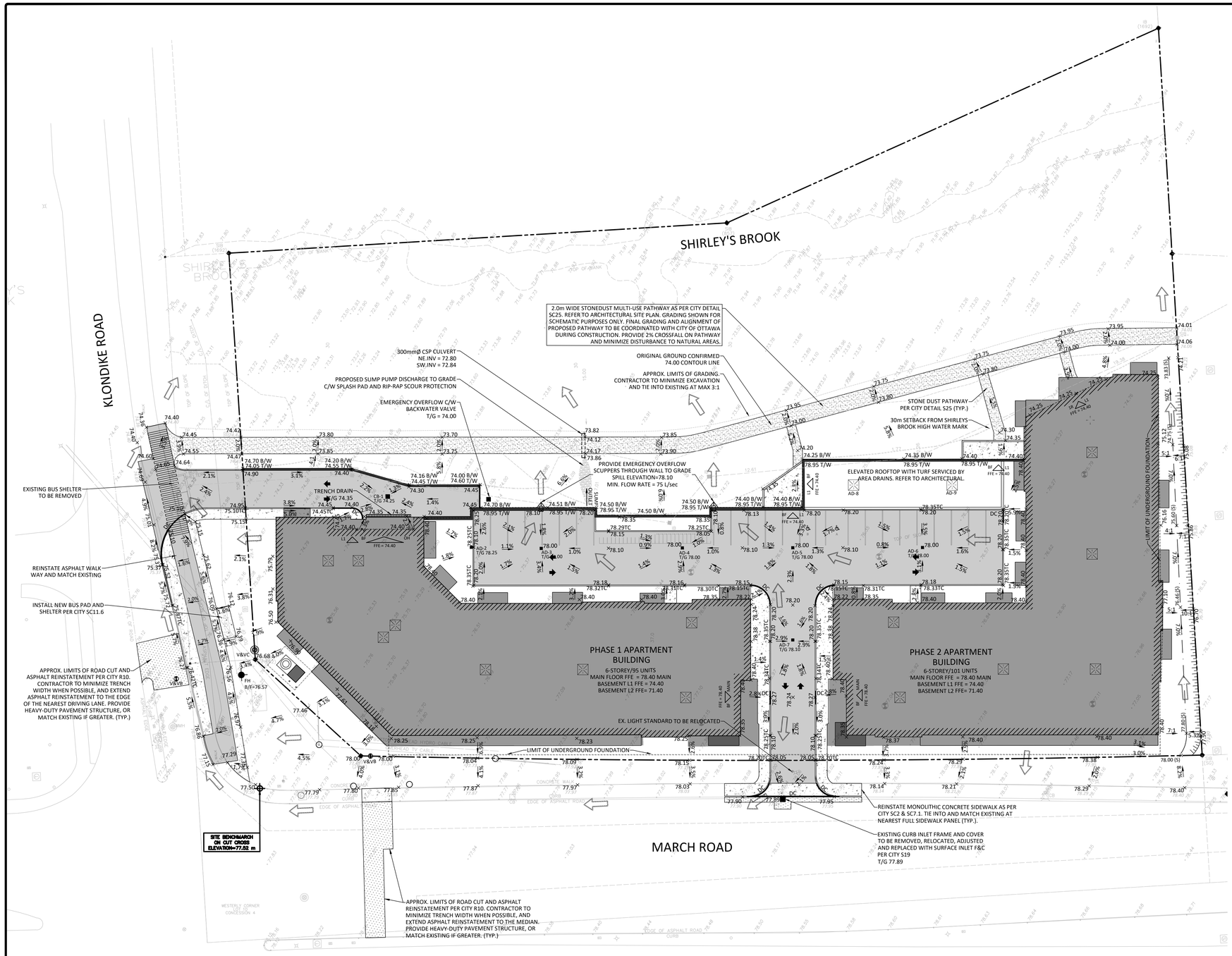
Drawing Title:
EXISTING CONDITIONS AND EROSION & SEDIMENT CONTROL PLAN

Scale: 1:300	Project Number: CO-24-1519
Drawn By: RP	
Checked By: JH	Drawing Number: C100
Designed By: RP	

D07-00-000

#18662

FILENAME: U:\Infrastructure\2024\PCO-24-1519 15053532 Canada_Kinata_788 March Road\12 - Drawings\CO-24-1519 - GP.dwg
LAST SAVED: Monday, August 26, 2024 LAST SAVED BY: J.Hewson
LAST PLOTTED: Monday, August 26, 2024 PLOTTED BY: —



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5. THE CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION. THESE DRAWINGS SHALL NOT BE USED FOR ANY LAYOUT OF STRUCTURAL COMPONENTS AND OTHER UTILITIES INCLUDING, BUT NOT LIMITED TO, FOOTINGS, FOUNDATION WALLS, FOUNDATION DRAINAGE, SHORING, ETC.
6. THE EXACT LOCATION OF ALL NEW SERVICES SHALL BE COORDINATED AND CONFIRMED ON SITE WITH THE ARCHITECTURAL AND STRUCTURAL PLANS. THE LOCATION OF ALL NEW SERVICES SHALL BE COORDINATED WITH THE LOCATION OF EXISTING UTILITIES, SERVICES, BUILDINGS AND ROADS, AS WELL AS THE FINAL BUILDING LAYOUT PRIOR TO INSTALLATION.
7. ABOVE GROUND APPURTENANCES INCLUDING, BUT NOT LIMITED TO, CURBS, SIDEWALKS, WALKWAYS, PLANTER BEDS, ETC. ARE SHOWN FOR SCHEMATIC PURPOSES ONLY. THE EXACT LAYOUT OF THE APPURTENANCES ARE TO BE COORDINATED WITH THE ARCHITECTURAL AND LANDSCAPE PLANS.
8. THE CONTRACTOR IS TO DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME ALL RESPONSIBILITY FOR EXISTING UTILITIES WHETHER OR NOT SHOWN ON THESE DRAWINGS. IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY.
9. RESTORE ALL TRENCHES AND SURFACES OF PUBLIC ROAD ALLOWANCES TO CONDITION EQUAL OR BETTER THAN ORIGINAL CONDITION AND TO THE SATISFACTION OF CITY AUTHORITIES.
10. EXCAVATE AND DISPOSE OF ALL EXCESS EXCAVATED MATERIAL, SUCH AS ASPHALT, CURBING AND DEBRIS, OFF SITE AT THE CONTRACTOR'S EXPENSE.
11. TOPSOIL TO BE STRIPPED AND STOCKPILED FOR REHABILITATION. CLEAN FILL TO BE PLACED IN FILL AREAS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
12. ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER UNLESS OTHERWISE SPECIFIED.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING THE CONSTRUCTION PERIOD, INCLUDING THE SUPPLY, INSTALLATION, AND REMOVAL OF ALL NECESSARY SIGNAGE, DELINEATORS, MARKERS AND BARRIERS, MEETING OTM REQUIREMENTS.
14. DO NOT ALTER GRADING OF THE SITE WITHOUT PRIOR APPROVAL OF THE ENGINEER/CITY.
15. ALL ROADWAY, PARKING LOT, AND GRADING WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH CITY OF OTTAWA AND OPSS STANDARDS AND SPECIFICATIONS. THE CONTRACTOR IS TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING.
16. CONTACT THE CITY FOR INSPECTION OF ROUGH GRADING OF PARKING LOTS, ROADWAYS AND LANDSCAPED AREAS PRIOR TO PLACEMENT OF ASPHALT AND TOPSOIL. ALL DEFICIENCIES NOTED SHALL BE RECTIFIED TO THE CITY'S SATISFACTION PRIOR TO PLACEMENT OF ANY ASPHALT, TOPSOIL, SEED & MULCH AND/OR SOD.
17. ALL DIMENSIONS AND INVERTS MUST BE VERIFIED PRIOR TO CONSTRUCTION, IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY.
18. ELECTRICAL, GAS, TELEPHONE AND TELEVISION SERVICE UTILITIES ARE SUBJECT TO THE INDIVIDUAL AGENCY AND APPROVED AUTHORITIES. ALL WORK SHALL BE COORDINATED WITH THE RESPECTIVE AGENCY.
16. INSTALLATION TO BE IN ACCORDANCE WITH CURRENT CODES AND STANDARDS OF APPROVAL AGENCIES HYDRO OTTAWA, BELL, ENBRIDGE, ETC. AND THE CITY.
17. CONTRACTOR TO ENSURE ALL APPLICABLE CITY AND OPSS SPECIFICATIONS ARE FOLLOWED DURING CONSTRUCTION.
18. FOR GEOTECHNICAL AND HYDROGEOLOGICAL INFORMATION, REFER TO THE GEOTECHNICAL INVESTIGATION REPORT FOR 788 MARCH ROAD, KANATA PREPARED BY GEOFIRMA ENGINEERING LTD, DATED DECEMBER 21, 2018, AND HYDROGEOLOGICAL STUDY, ESTIMATION OF GROUNDWATER INFLOW TO THE PROPOSED 788 MARCH RPAD DEVELOPMENT, KANATA PREPARED BY GEOFIRMA ENGINEERING LTD, DATED FEBRUARY 29, 2024.
19. CIVIL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL, LANDSCAPING, ELECTRICAL AND MECHANICAL PLANS.

GENERAL NOTES FOR ROADWAYS

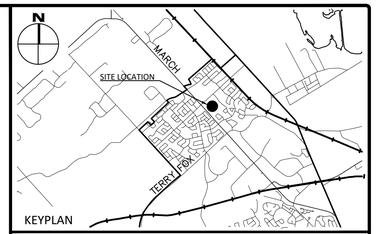
1. ALL TOPSOIL AND ORGANIC MATERIAL SHALL BE STRIPPED WITHIN THE ROADWAY PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. RESTORE ANY TRENCHES AND DISTURBED SURFACES OF PUBLIC ROAD ALLOWANCES TO CONDITION EQUAL OR BETTER THAN ORIGINAL CONDITION AND TO THE SATISFACTION OF TOWN AUTHORITIES.
3. CONCRETE CURB AND SIDEWALK SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD SC1.1 (BARRIER CURB), SC2 (MONOLITHIC SIDEWALK & CURB), AND SC4 (STANDARD SIDEWALK), UNLESS OTHERWISE SPECIFIED. PROVISIONS SHALL BE MADE FOR CURB DEPRESSIONS AT SIDEWALKS, DRIVEWAYS AND RAMPS INCLUDING TACTILE WALKING SURFACE INDICATORS (TWSI) WHERE REQUIRED PER SC6 AND SC7.3. WHERE SIDEWALK PANELS ARE BEING REINSTATED, FULL PANEL REPLACEMENT IS REQUIRED.
4. PAVEMENT REINSTATEMENT FOR SERVICE AND UTILITY CUTS SHALL BE IN ACCORDANCE WITH CITY DETAIL R10, OPSD 509.010, OPSB 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 100% SPMDD OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
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 AS DIRECTED BY A GEOTECHNICAL ENGINEER.
9. IN AREAS OF NEW PAVEMENT CONSTRUCTION, ALL SURFICIAL TOPSOIL AND ANY LOOSE/SOFT, WET, ORGANIC OR DELETERIOUS MATERIALS ARE TO BE REMOVED FROM THE PROPOSED SUBGRADE SURFACE. ANY SUBEXCAVATED AREAS SHOULD BE FILLED WITH COMPACTED EARTH BORROW APPROVED BY A GEOTECHNICAL ENGINEER. THE SUBGRADE SURFACE IS TO BE PROOF ROLLED IN THE PRESENCE OF A GEOTECHNICAL ENGINEER. THE SUBGRADE SURFACE IS TO BE SHAPED AND CROWNED TO PROMOTE DRAINAGE OF THE GRANULAR MATERIALS.
10. ANY FILL REQUIRED TO MEET THE PROPOSED SUBGRADE ELEVATIONS FOR THE ACCESS ROADWAYS AND PARKING AREAS IS TO CONSIST OF MATERIAL WHICH MEETS OR EXCEEDS OPSS SPECIFICATIONS FOR GRANULAR B TYPE I OR II,OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER. THE MATERIALS ARE TO BE PLACED IN MAXIMUM 300mm THICK LIFTS AND COMPACTED TO 98% SPMDD MINIMUM USING VIBRATORY COMPACTION EQUIPMENT.
11. WHERE NEW PAVEMENT WILL ABUT EXISTING PAVEMENT, THE DEPTHS OF GRANULAR MATERIALS IS TO TAPER UP OR DOWN AT 5 HORIZONTAL TO 1 VERTICAL OR FLATTER, TO MATCH THE DEPTHS OF THE GRANULAR MATERIALS EXPOSED IN THE EXISTING PAVEMENT.

PROPOSED PAVEMENT STRUCTURE

1. ASPHALT MATERIALS SHALL COMPLY WITH OPSS 310.
2. LIGHT-DUTY PAVEMENT STRUCTURE:
   - 50mm HL-3 / SUPERPAVE 12.5mm TOP COURSE (PG58-34)
   - 150mm GRANULAR 'A' BASE
   - 300mm GRANULAR 'B' TYPE II SUB-BASE
3. HEAVY-DUTY PAVEMENT STRUCTURE:
   - 40mm HL-3 / SUPERPAVE 12.5mm TOP COURSE (PG58-34)
   - 60mm HL-8 / SUPERPAVE 19.0mm BINDER COURSE (PG58-34)
   - 150mm GRANULAR 'A' BASE
   - 450mm GRANULAR 'B' TYPE II SUB-BASE
18. REFER TO GEOTECHNICAL INVESTIGATION REPORT FOR 788 MARCH ROAD, KANATA PREPARED BY GEOFIRMA ENGINEERING LTD, DATED DECEMBER 21, 2018.
19. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR ALL TRAFFIC AREAS ABOVE FOUNDATION.

GENERAL NOTES FOR GRADING

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT GRADING AROUND HYDRANTS, TRANSFORMERS, AND UTILITY PEDESTALS, ETC., MEET CURRENT 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.
6. ALL PERVIOUS/LAWN AREAS TO BE TREATED WITH 100mm TOPSOIL & SEED OR SOD AS SOON AS FEASIBLE, EXCEPT WHERE NOTED.



KEYPLAN

LEGEND

- LEGAL BOUNDARY
- EXISTING STORM STRUCTURE
- EXISTING CATCHBASIN
- EXISTING SANITARY STRUCTURE
- EXISTING FIRE HYDRANT
- EXISTING VALVE & VALVE BOX
- EXISTING HYDRO POLE
- EXISTING HYDRO
- EXISTING UTILITIES
- EXISTING ELEVATION
- PROPOSED STORM MANHOLE
- PROPOSED STORM CATCHBASIN MH
- PROPOSED SANITARY STRUCTURE
- PROPOSED WATER VALVE/HYDRANT
- PROPOSED FINISHED GROUND ELEVATION
- PROPOSED TOP OF CURB ELEVATION
- PROPOSED TOP OF WALL ELEVATION
- PROPOSED BOTTOM OF WALL ELEVATION
- PROPOSED SWALE ELEVATION
- PROPOSED SLOPE
- PROPOSED TERRACING (3:1 MAX)
- PROPOSED BARRIER CURB
- PROPOSED RETAINING WALL
- PROPOSED DRAINAGE SWALE
- PROPOSED CONCRETE SIDEWALK
- ENTRY/EXIT LOCATION, ELEVATION & LEVEL (BF = BARRIER FREE; 1R = ONE RISER, OH = OVERHEAD DOOR)
- PROPOSED MAJOR OVERLAND FLOW ROUTE

No.	Revisions	Date
6	REISSUED FOR SITE PLAN APPLICATION	AUG. 26, 2024
5	REISSUED FOR SITE PLAN APPLICATION	JUN. 05, 2024
4	ISSUED FOR SHORING PERMIT	APR. 26, 2024
3	REISSUED FOR SITE PLAN APPLICATION	MAR. 15, 2024
2	ISSUED FOR SITE PLAN APPLICATION	NOV. 16, 2023
1	ISSUED FOR REVIEW	SEP. 29, 2023

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SCALE 1 : 300

0 5 10 15 20 25 30 Metres

McINTOSH PERRY
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www.mcintoshperry.com

Stamp: LICENSED PROFESSIONAL ENGINEER — J. D. J. HEWSON — 100506243 — 08/26/2024 — PROVINCE OF ONTARIO

Client:
SINA
3030 BOUL. LE CARREFOUR, SUITE 1200,
LAVAL, QUÉBEC

Project:
RESIDENTIAL BUILDING
788 MARCH ROAD,
OTTAWA, ON

Drawing Title:
SITE GRADING PLAN

Scale: 1:300	Project Number: CO-24-1519
Drawn By: RP	
Checked By: JH	Drawing Number: C101
Designed By: RP	

D07-00-000

#18662

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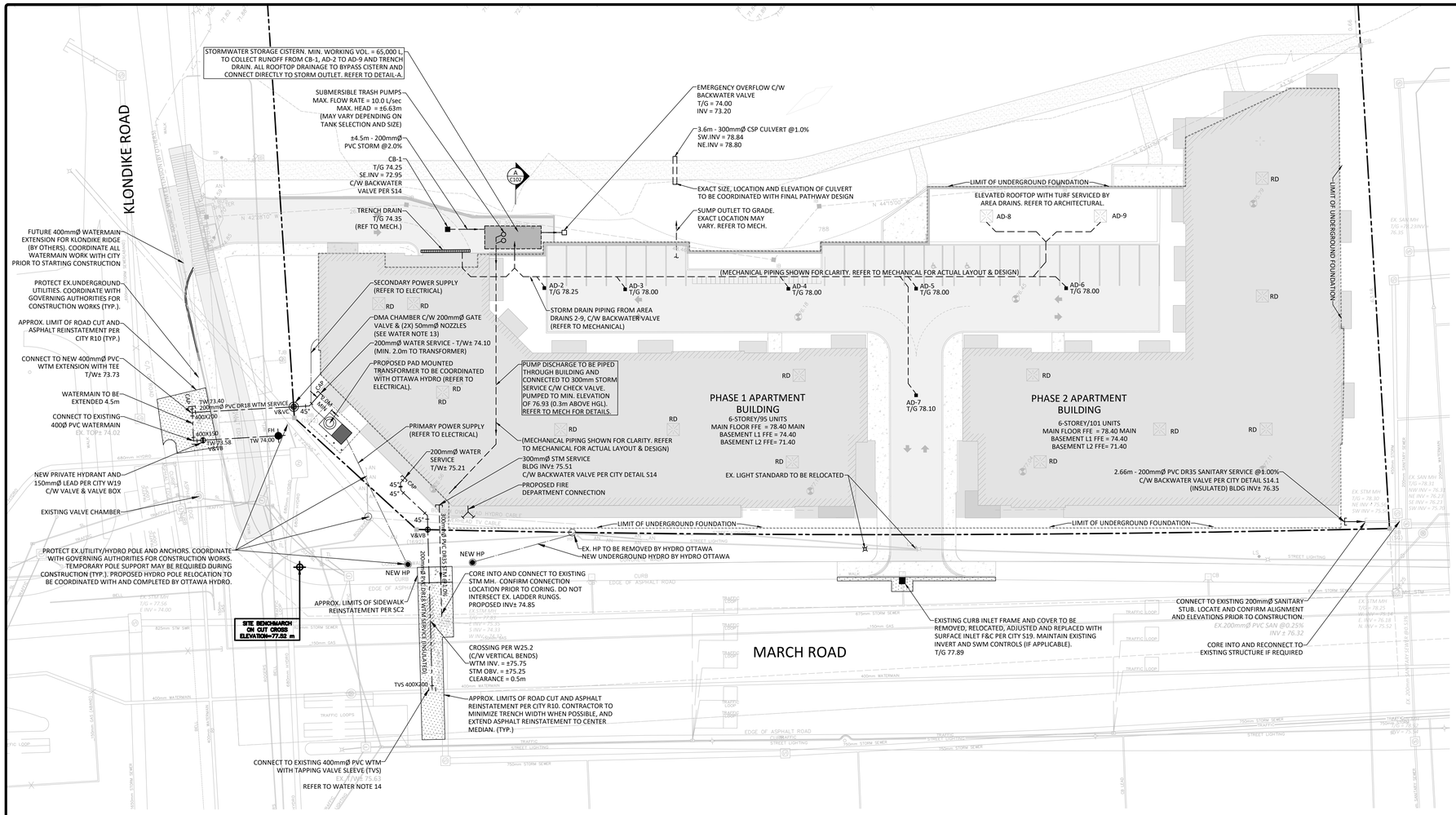
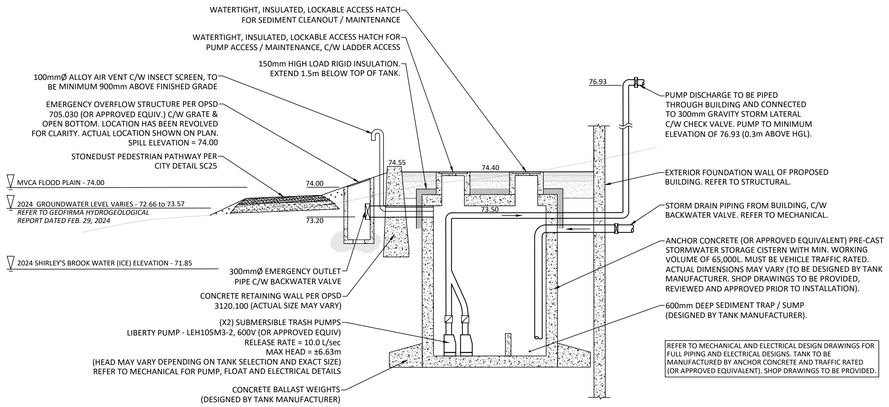
LAST PLOTTED: Monday, August 26, 2024 1:16 PLOT STYLE: ---





A C102 DETAIL - STORMWATER STORAGE CISTERN
1 : 75

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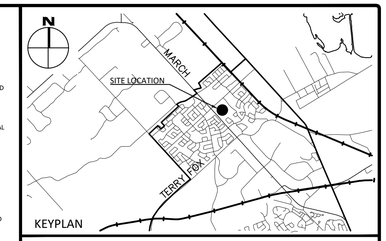
9. EXCAVATE AND DISPOSE OF ALL EXCESS EXCAVATED MATERIAL, SUCH AS ASPHALT, CURBING AND DEBRIS, OFF SITE AT THE CONTRACTOR'S EXPENSE.
10. ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER UNLESS OTHERWISE SPECIFIED.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING THE CONSTRUCTION PERIOD, INCLUDING THE SUPPLY, INSTALLATION, AND REMOVAL OF ALL NECESSARY SIGNAGE, DELINEATORS, MARKERS AND BARRIERS, MEETING OTM REQUIREMENTS.
12. ALL DIMENSIONS AND INVERTS MUST BE VERIFIED PRIOR TO CONSTRUCTION, IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY.
18. ELECTRICAL, GAS, TELEPHONE AND TELEVISION SERVICE UTILITIES ARE SUBJECT TO THE INDIVIDUAL AGENCY AND APPROVED AUTHORITIES. ALL WORK SHALL BE COORDINATED WITH THE RESPECTIVE AGENCY.
19. INSTALLATION TO BE IN ACCORDANCE WITH CURRENT CODES AND STANDARDS OF APPROVAL AGENCIES HYDRO OTTAWA, BELL, ENBRIDGE, ETC. AND THE CITY.
20. CONTRACTOR TO ENSURE ALL APPLICABLE CITY AND OPSS SPECIFICATIONS ARE FOLLOWED DURING CONSTRUCTION.
21. FOR GEOTECHNICAL AND HYDROGEOLOGICAL INFORMATION, REFER TO THE GEOTECHNICAL INVESTIGATION REPORT FOR 788 MARCH ROAD, KANATA PREPARED BY GEOFIRMA ENGINEERING LTD, DATED DECEMBER 21, 2018, AND HYDROGEOLOGICAL STUDY, ESTIMATION OF GROUNDWATER INFLOW TO THE PROPOSED 788 MARCH RPAD DEVELOPMENT, KANATA PREPARED BY GEOFIRMA ENGINEERING LTD, DATED FEBRUARY 29, 2024.
22. CIVIL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL, LANDSCAPING, ELECTRICAL AND MECHANICAL PLANS.

SEWER NOTES:

1. CONSTRUCT ALL SEWERS, CATCH BASINS, MANHOLES AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY.
2. SEWER TRENCHING AND BEDDING SHALL CONFORM TO OPSD 802.010 AND 802.013 UNLESS NOTED OTHERWISE.
   - 2.1. BEDDING SHALL BE A MINIMUM 150mm OF GRANULAR "A", COMPACTED TO MINIMUM 98% STANDARD PROCTOR DRY DENSITY. CLEAR STONE BEDDING SHALL NOT BE PERMITTED.
   - 2.2. SUB-BEDDING, IF REQUIRED SHALL CONSIST OF 450mm OF COMPACTED GRANULAR "B" TYPE 1.
   - 2.3. BACKFILL TO AT LEAST 300mm ABOVE TOP OF PIPE WITH GRANULAR "A" OR GRANULAR "B" TYPE 1.
   - 2.4. TO MINIMIZE DIFFERENTIAL FROST HEAVING, TRENCH BACKFILL (FROM PAVEMENT SUBGRADE TO 2.0 METRES BELOW FINISHED GRADE) SHALL MATCH EXISTING SOIL CONDITIONS.
3. SANITARY SEWERS AND CONNECTIONS 150mmØ AND SMALLER TO BE PVC SDR-28.
4. SEWERS AND CONNECTIONS 200mmØ AND LARGER TO BE PVC SDR-35. BEDDING TO BE TYPE "B" EXCEPT AT RISERS, UNLESS NOTED OTHERWISE.
5. SEWERS AND WATERMAINS LOCATED PARALLEL TO EACH OTHER SHOULD BE CONSTRUCTED IN SEPARATE TRENCHES. WHEN IT IS IMPOSSIBLE OR NOT PRACTICAL TO MAINTAIN VERTICAL AND/OR HORIZONTAL SEPARATION PER MECP STANDARDS, ALL SEWERS SHOULD BE CONSTRUCTED OF WATERMAIN QUALITY PIPE, PRESSURE TESTED IN PLACE AT A PRESSURE OF 350 kPa (50 psi) WITHOUT LEAKAGE USING THE TESTING METHODOLOGY IN ONTARIO PROVINCIAL STANDARD SPECIFICATION 701 (OPSS 701) OF THE OPS.
6. INSULATE ALL STORM AND SANITARY SEWERS/SERVICES THAT HAVE LESS THAN 2.0m OF COVER WITH THERMAL INSULATION AS PER CITY DETAIL S35, OPTION A.
7. SEWER CONNECTIONS ARE TO BE MADE ABOVE THE SPRINGLINE OF THE SEWERMAIN AS PER CITY OF OTTAWA STANDARD DRAWING S11, S11.1 & S11.2.
8. SUPPLY AND INSTALL ALL PIPING AND APPURTENANCES AS SHOWN AND DETAILED TO WITHIN 1.0m OF BUILDING. ALL ENDS OF SERVICES TO BE PROPERLY CAPPED AND LOCATED WITH 2"x4"X8' LONG MARKER.
9. CONTRACTOR TO TELEVISE (CCTV) ALL PROPOSED SEWERS ON SITE, OUTLET CONNECTION TO THE MAIN AND PIPES 150mmØ OR GREATER PRIOR TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.
10. DYE TESTING IS TO BE COMPLETED ON SANITARY SERVICE TO CONFIRM PROPER CONNECTION TO SANITARY SEWER MAIN.

WATERMAIN NOTES

1. CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY STANDARDS.
2. WATERMAINS AND/OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 2.4m. INSULATE ALL WATERMAINS AND SERVICES THAT HAVE LESS THAN 2.4m COVER WITH THERMAL INSULATION AS PER CITY DETAIL W22.
3. IF THE WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS EQUAL TO OR LESS THAN HALF OF THAT WHICH IS RECOMMENDED BY THE MANUFACTURER.
4. THERMAL INSULATION OF WATERMAINS AT OPEN STRUCTURES AS PER CITY DETAIL W23.
5. VALVES TO BE OPERATED BY CITY STAFF ONLY.
6. NO CONNECTION TO EXISTING WATER NETWORK SHALL BE COMPLETED UNTIL A WATER PERMIT IS OBTAINED FROM THE CITY. CITY TO BE PRESENT FOR WATERMAIN CONNECTION. CONNECTION, EXCAVATION, BACKFILLING AND REINSTATEMENT TO BE COMPLETED BY CONTRACTOR.
7. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ANY WATERMAIN CONNECTION(S) IF REQUIRED BY DRINKING WATER SERVICES. THIS SHALL BE COMPLETED IN THE PRESENCE OF A DESIGNATED MUNICIPAL WATER OPERATOR AND THE SELECTED CONTRACTOR SHALL PROVE TO THE SATISFACTION OF THE CITY THAT THEY ARE COMPETENT TO PERFORM THE WORKS PRIOR TO INITIATING CONSTRUCTION.
8. CONCRETE THRUST BLOCKS TO CONFORM TO OPSD 1103.010 AND OPSD 1103.020.
9. ALL WATERMAIN TO BE CLASS 150 DR-18 OR APPROVED EQUIVALENT.
10. ALL WATERMAIN TO BE EQUIPPED WITH TRACER WIRE.
11. AS PER CITY GUIDELINE, THE MINIMUM VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER/UTILITY IS 0.25m FOR CROSSING OVER THE SEWER, AS PER CITY DETAIL W25.2 FOR CROSSING UNDER SEWER, THE MINIMUM VERTICAL CLEARANCE IS 0.5m AS PER CITY DETAIL W25. FOR CROSSING UNDER SEWER, ADEQUATE STRUCTURAL SUPPORT FOR THE SEWERS IS REQUIRED TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING. THE LENGTH OF WATER PIPE SHALL BE CENTERED AT THE POINT OF CROSSING SO THAT THE JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE SEWER.
12. SWABBING, CHLORINATION AND CONTINUITY TESTING FOR PROPOSED WATER SERVICES IS TO FOLLOW CITY OF OTTAWA SPECIAL PROVISIONS #SP-4491 & SP-4494.
13. WATER SERVICES FOR BUILDING TO INCLUDE (1) ONE DISTRICT METERING AREA (DMA) CHAMBER, USING A STANDARD 200mm DIAMETER ISOLATION VALVE AND (2) TWO 50mm DIAMETER STANDARD NOZZLES TAPPED ON EACH SIDE OF THE ISOLATION VALVE. VALVES TO INCLUDE STANDARD CATHODIC PROTECTION IN ACCORDANCE WITH CITY STANDARD SPECIFICATIONS.
14. NO MECHANICAL OR VIBRATION EQUIPMENT IS TO BE USED WITHIN A PROXIMITY OF 3.0m OF THE 400mmØ BACKBONE WATERMAIN ON MARCH ROAD. ALL CONSTRUCTION IS TO BE COORDINATED WITH THE CITY OF OTTAWA DRINKING WATER SERVICES (DWS) AND AUTHORIZED INSPECTORS PRIOR TO EXCAVATION. CONSULT WITH DWS PRE-CONSTRUCTION TO COORDINATE ALL WATERMAIN WORK.



KEYPLAN

LEGEND

- LEGAL BOUNDARY
- EXISTING FENCE
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- EXISTING STORM STRUCTURE
- EXISTING CATCHBASIN
- EXISTING SANITARY STRUCTURE
- EXISTING FIRE HYDRANT
- EXISTING VALVE & VALVE BOX
- EXISTING HYDRO POLE
- EXISTING HYDRO
- EXISTING UTILITIES
- PROPOSED STORM SEWER — XX.XXm - XXXmmØ STM @ X.XX%
- PROPOSED SANITARY SEWER — XX.XXm - XXXmmØ SAN @ X.XX%
- PROPOSED WATERMAIN — XX.XXm - XXXmmØ WTR @ X.XX%
- PROPOSED CULVERT
- PROPOSED STORM MAINTENANCE HOLE
- PROPOSED STORM DITCH INLET MAINTENANCE HOLE
- PROPOSED SANITARY MAINTENANCE HOLE
- PROPOSED WATER VALVE/HYDRANT
- PROPOSED FROST PROTECTION PER W22

No.	Revisions	Date
6	REISSUED FOR SITE PLAN APPLICATION	AUG. 26, 2024
5	REISSUED FOR SITE PLAN APPLICATION	JUN. 05, 2024
4	ISSUED FOR SHORING PERMIT	APR. 26, 2024
3	REISSUED FOR SITE PLAN APPLICATION	MAR. 15, 2024
2	ISSUED FOR SITE PLAN APPLICATION	NOV. 16, 2023
1	ISSUED FOR REVIEW	SEP. 29, 2023

Check and verify all dimensions before proceeding with the work — Do not scale drawings

SCALE 1 : 300

0 5 10 15 20 25 30 Metres

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Client:
SINA
3030 BOUL. LE CARREFOUR, SUITE 1200,
LAVAL, QUÉBEC

Project:
RESIDENTIAL BUILDING
788 MARCH ROAD,
OTTAWA, ON

Drawing Title:
SITE SERVICING PLAN

Scale: 1:300	Project Number: CO-24-1519
Drawn By: RP	
Checked By: JH	Drawing Number: C102
Designed By: RP	

D07-00-000

#18662

FILENAME: U:\Infrastructure\2024\PCO-24-1519 1505353\3 Canada_Kanata_788 March Road\12 - Drawings\CO-24-1519 - SS.dwg
LAST SAVED: Monday, August 26, 2024 LAST SAVED BY: J.Hewson
LAST PLOTTED: Monday, August 26, 2024 [TB FILE USED] —