

**LEGEND**

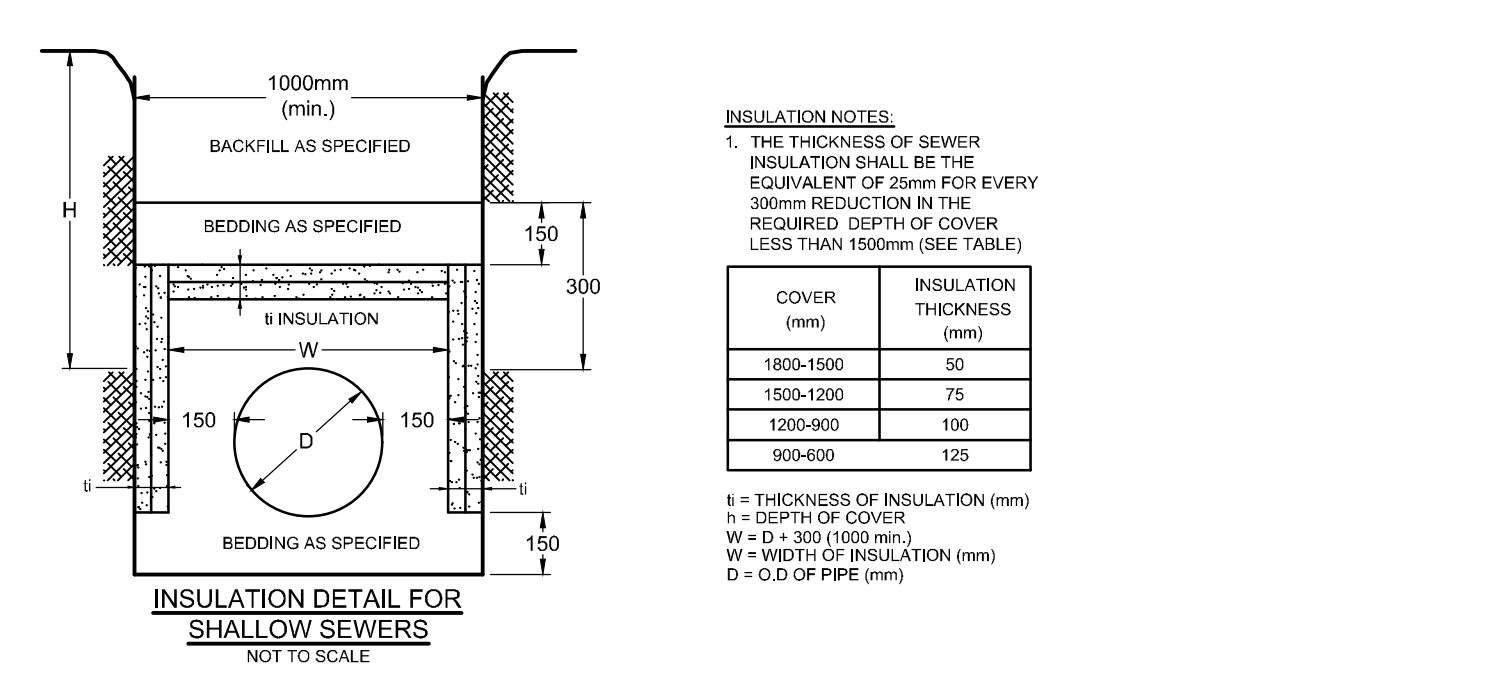
CBM 3	PROPOSED CATCHBASIN MANHOLE & SEWER (W/WATERIGHT COVER)	EXISTING CONCRETE CURB
STM 100	PROPOSED CATCHBASIN AND LEAD	EXISTING SANDHOLE MANHOLE AND SEWER
CB 100	PROPOSED CATCHBASIN	EXISTING CATCHBASIN MANHOLE AND SEWER
DC	PROPOSED DEPRESSED CURB	EXISTING CATCHBASIN WITH CATCHBASIN LEAD
ICD	PROPOSED INLET CONTROL DEVICE	EXISTING ASPHALT
ICD	THERMAL INSULATION FOR SHALLOW SEWERS	EXISTING CITY PAVEMENT
X	REMOVES	EXISTING WATER MAIN
X	EXISTING TREE TO REMAIN	EXISTING WATER MAIN WITH LEAD
		EXISTING LIGHT STANDARD
		EXISTING ASPHALT
		EXISTING OVERHEAD UTILITY LINES

- GENERAL NOTES:**
- COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
  - DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THIS DRAWING.
  - OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA BEFORE COMMENCING CONSTRUCTION.
  - BEFORE COMMENCING CONSTRUCTION OBTAIN AND PROVIDE PROOF OF COMPREHENSIVE ALL RISK AND OPERATIONAL LIABILITY INSURANCE FOR \$3,000,000.00. INSURANCE POLICY TO NAME OWNERS, ENGINEERS AND ARCHITECTS AS CO-INSURED.
  - RESTORE ALL DISTURBED AREAS ON-SITE AND OFF-SITE, INCLUDING TRENCHES AND SURFACES ON PUBLIC ROAD ALLOWANCES TO EXISTING CONDITIONS OR BETTER TO THE SATISFACTION OF THE CITY OF OTTAWA AND ENGINEER.
  - REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL, ORGANIC MATERIAL, AND DEBRIS UNLESS OTHERWISE INSTRUCTED BY ENGINEER. EXCAVATE AND REMOVE FROM SITE ANY CONTAMINATED MATERIAL. ALL CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY.
  - ALL ELEVATIONS ARE GEODETIC.
  - REFER TO THE GEOTECHNICAL INVESTIGATION AND HYDROLOGICAL ASSESSMENT - 600 MARCH ROAD - (REPORT NO. 1068873-RPT-1), PREPARED BY GHD ON JUNE 16, 2023, FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT IS TO REVIEW ON-SITE CONDITIONS AFTER EXCAVATION PRIOR TO PLACEMENT OF THE GRANULAR MATERIAL.
  - REFER TO ARCHITECTS AND LANDSCAPE ARCHITECTS DRAWINGS FOR BUILDING AND HARDSCAPE AREAS AND DIMENSIONS.
  - REFER TO STORMWATER MANAGEMENT REPORT (2023-143) PREPARED BY NOVATECH ENGINEERING CONSULTANTS LTD.
  - PROVIDE LINEWORK PAINTING.
  - SAVY CUT AND KEY GRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10).
  - CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GENERAL PLAN OF SERVICES INDICATING ALL SERVING AS-BUILT INFORMATION SHOWN ON THIS PLAN, AS BUILT INFORMATION SHALL INCLUDE: PIPE MATERIAL, SIZES, LENGTHS, SLOPES, INVERT AND TO ELEVATIONS, STRUCTURE LOCATIONS, VALVE AND HYDRANT LOCATIONS, TWIN ELEVATIONS AND ANY ALIGNMENT CHANGES, ETC.

- SEWER NOTES:**
- SUPPLY AND CONSTRUCT ALL SEWERS AND APPURTENANCES IN ACCORDANCE WITH THE MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
  - SPECIFICATIONS:
 

ITEM	SPEC. No.	REFERENCE
CATCHBASIN (600/600mm)	705.010	ORSD
STORM SANITARY MANHOLE (1200mm)	705.010	ORSD
CB, FRAME & COVER	400.020	ORSD
STORM SANITARY MH FRAME & COVER	401.010	ORSD
WATER TIGHT MH FRAME AND COVER	401.030	ORSD
SEWER TRENCH	56	CITY OF OTTAWA
STORM SEWER	PVC DR 35	
CATCHBASIN LEAD	PVC DR 35	
  - ALL STORM AND SANITARY SERVICE LATERALS SHALL BE EQUIPPED WITH BACKFLOW PREVENTION DEVICES AS PER THE CITY OF OTTAWA STANDARDS DETAILS S14 AND S14.1 OR S14.2.
  - INSULATE ALL PIPES (BANDSTM) THAT HAVE LESS THAN 1.8m COVER WITH H-40 INSULATION PER INSULATION DETAIL FOR SHALLOW SEWERS. PROVIDE 150mm CLEARANCE BETWEEN PIPE AND INSULATION.
  - SEWERAGE ARE TO BE CONSTRUCTED TO 1.0m FROM FACE OF BUILDING AT A MINIMUM SLOPE OF 1.0%.
  - PIPE BEDDING, COVER AND BACKFILL ARE TO BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. THE USE OF CLEAR CRUSHED STONE AS A BEDDING LAYER SHALL NOT BE PERMITTED.
  - FLEXIBLE CONNECTIONS ARE REQUIRED FOR CONNECTING PIPES TO MANHOLES (FOR EXAMPLE KOR-N-SEAL, PSA: POSITIVE SEAL AND DRAINABLE), THE CONCRETE CHUCKLE FOR THE PIPE CAN BE ELIMINATED.
  - THE OWNER SHALL REQUIRE THAT THE SITE SERVICES CONTRACTOR PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL SANITARY SEWERS. LEAKAGE TESTING SHALL BE COMPLETED IN ACCORDANCE WITH ORSD 410.17.16, 410.17.18 AND 410.17.24. THE TESTING IS TO BE COMPLETED BY THE CONTRACTOR TO CONFIRM PROPER CONNECTION TO THE SANITARY SEWER MAIN. THE FIELD TESTS SHALL BE PERFORMED IN THE PRESENCE OF A CERTIFIED PROFESSIONAL ENGINEER WHO SHALL SUBMIT A CERTIFIED COPY OF THE TEST RESULTS.
  - ALL STORM MANHOLES AND CATCHBASIN MANHOLES ARE TO HAVE 300mm SUMP UNLESS OTHERWISE INDICATED. ALL CATCHBASINS ARE TO HAVE 600mm SUMPS UNLESS OTHERWISE INDICATED.
  - ALL CATCHBASIN MANHOLES AND/OR CATCHBASIN MANHOLES THAT ARE TO HAVE ICD'S INSTALLED WITHIN THEM ARE TO HAVE 600mm SUMPS.
  - ALL WEEDING TIE CONNECTIONS TO BE MADE TO THE PROPOSED STORM SEWER SYSTEM DOWNSTREAM OF ANY INLET CONTROL DEVICES.
  - CONTRACTOR TO TELEVIEW (CCTV) ALL PROPOSED SEWERS, 200mm OR GREATER PRIOR TO BASE COURSE ASPHALT UPON COMPLETION OF CONTRACT. THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.

- BENCHMARK NOTES:**
- ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO THE CGVD28 GEODETIC DATUM.
  - IT IS THE RESPONSIBILITY OF THE USER OF THIS INFORMATION TO VERIFY THAT THE JOB BENCHMARK HAS NOT BEEN ALTERED OR OBTURED AND THAT ITS RELATIVE ELEVATION AND DESCRIPTION AGREES WITH THE INFORMATION SHOWN ON THIS DRAWING.
  - BENCHMARK WAS PROVIDED ON THE TOPOGRAPHIC PLAN OF SURVEY OF BLOCK 6 AND PART OF BLOCK 1 REGISTERED PLAN 4M-642 AND PART OF LOTS 8 AND 9 CONVEYANCE 4, GEOGRAPHIC TOWNSHIP OF MARCH, CITY OF OTTAWA, SURVEYED BY ANNS, O'SULLIVAN AND VOJTEBK, LTD.



**INLET CONTROL DEVICE DATA TABLE: AREA A-1 (INCL. AREAS OS-1 & OS-2)**

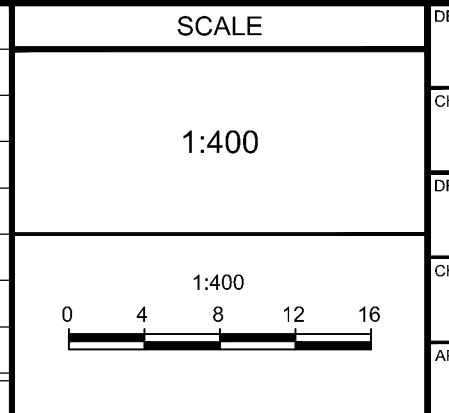
DESIGN EVENT	ICD TYPE	OUTLET STRUCTURE	DIAMETER OF OUTLET PIPE (mm)	PEAK DESIGN FLOW (L/s)	DESIGN HEAD (m)	WATER HEAD (m)	VOLUME (L)	AVAILABLE STORAGE
1.2 YR	Horizontal	STMH 117	375mm	84	2.46	81.23	136.6	1001.1 m³
1.5 YR	Horizontal	STMH 117	375mm	84	2.48	81.23	136.7	1001.1 m³
1.5 YR	Vertical	ICD	375mm	84	2.48	81.23	136.7	1001.1 m³

**INLET CONTROL DEVICE DATA TABLE: AREA A-2 (POND)**

DESIGN EVENT	ICD TYPE	OUTLET STRUCTURE	DIAMETER OF OUTLET PIPE (mm)	PEAK DESIGN FLOW (L/s)	DESIGN HEAD (m)	WATER HEAD (m)	VOLUME (L)	AVAILABLE STORAGE
1.2 YR	Horizontal	STMH 114	375mm	204	0.46	78.78	87.3	496.2 m³
1.5 YR	Horizontal	STMH 114	375mm	203	0.50	78.90	88.1	496.2 m³
1.5 YR	Vertical	ICD	375mm	203	0.50	78.90	88.1	496.2 m³

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

**OWNER INFORMATION**  
NOKIA CO COLLIERS  
181 BAY STREET, SUITE 1400  
TORONTO, ONTARIO, M5J 2V1  
  
ERIK CUNNINGTON  
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EMAIL: erik.cunnington@colliers.com



NO.	REVISION	DATE	BY
2	ISSUED FOR SPC APPROVAL	NOV 2023	FST
1	PRELIMINARY PLANS ISSUED TO CITY	OCT 02/23	FST

**FOR REVIEW ONLY**

SCALE: 1:400

OWNER INFORMATION: NOKIA CO COLLIERS

ENGINEER: NOVATECH ENGINEERING CONSULTANTS LTD.

LOCATION: CITY OF OTTAWA, 600 MARCH ROAD - NOKIA PARKING LOT EXPANSION

DRAWING NAME: GENERAL PLAN OF SERVICES

PROJECT NO: 121334

REV #2

121334-GP