

Station	Invert of Forcemain Elevation (m)	Top of Forcemain Elevation (m)	Finished Ground Elevation (m)	Depth of Cover (m)
0+000.0	89.23	89.28	91.00	1.72
0+020.7	89.44	89.49	90.76	1.27
0+025.0	89.48	89.53	90.84	1.31
0+046.9	89.70	89.75	91.20	1.45
0+050.0	90.79	90.84	91.92	1.08
0+055.4	92.70	92.75	93.17	0.42

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LOCATION 300 SOMME STREET BLOCK 6

DRAWING NAME SEPTIC SYSTEM PLAN

# KEY PLAN

LEGEND	
127.55 126.75	PROPOSED ELEVATION EXISTING ELEVATION
110.31 TS 110.45 TB	PROPOSED TOP OF SLOPE ELEVATION PROPOSED TOP OF BED ELEVATION
109.15 TM 109.80 INV 108.52 USB	PROPOSED TOP OF MANTLE ELEVATION PROPOSED INVERT PROPOSED UNDERSIDE OF BED ELEVATION
2.0%	TERRACING: MAXIMUM 3:1 SIDESLOPE SLOPE AND DIRECTION
	PROPOSED PUMP CHAMBER & FORCEMAIN U/G HYDRO SERVICE

PROPOSED SILT FENCE PER OPSD 219.110

## **GENERAL NOTES**

- 1. COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS. 2. 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.
- 3. OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA, OTTAWA SEPTIC SYSTEM OFFICE (OSSO), RIDEAU VALLEY CONSERVATION AUTHORITY (MVCA) AND THE MINISTRY OF THE ENVIRONMENT, CLIMATE AND PARKS (MECP) BEFORE COMMENCING CONSTRUCTION.
- 4. BEFORE COMMENCING CONSTRUCTION OBTAIN AND PROVIDE PROOF OF COMPREHENSIVE, ALL RISK AND OPERATIONAL LIABILITY INSURANCE FOR \$2,000,000.00. 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.
- 3. 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.
- 7. ALL ELEVATIONS ARE GEODETIC. 8. REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARDSURFACE AREAS AND DIMENSIONS. 9. PROVIDE LINE/PARKING PAINTING.
- 10. TOPOGRAPHIC SURVEY PROVIDED BY NOVATECH.

### SEPTIC SYSTEM NOTES

- 1. THE PROPOSED SEPTIC SYSTEM CONSISTS OF A SEPTIC TANK, GRAVITY SEWER, PUMP CHAMBER (c/w DUAL PUMPS), FORCEMAIN, AND AN ABSORPTION TRENCH LEACHING BED WHICH HAS BEEN DESIGNED BASED ON A SEWAGE FLOW OF 3,800 L/DAY.
- 2. INSTALLATION IS TO BE IN ACCORDANCE WITH CURRENT ONTARIO BUILDING CODE REQUIREMENTS AND THE ENGINEER'S REPORT PREPARED BY NOVATECH, REVISED NOV 9, 2020.
- 3. SEPTIC SYSTEM ELEVATIONS ARE NOT TO BE REVISED WITHOUT THE WRITTEN PERMISSION OF NOVATECH.
- 4. ALL BENDS IN THE PIPE FROM THE BUILDING TO THE HEADER ARE TO BE 22.5 OR 45.0 DEGREES.
- 5. THE FOLLOWING SETBACKS ARE REQUIRED: -TILE FIELD TO ANY DRILLED WELL = 18.0m (min) -TILE FIELD TO PROPERTY LINE = 6.0m (min) -SEPTIC TANK TO ANY DRILLED WELL= 15.0m (min)
- -SEPTIC TANK TO BUILDING= 1.5m (min) 6. TANK SIZE = 11,500L (MACGREGOR CONCRETE OR APPROVED EQUIVALENT)
- 7. THE SEPTIC TANK IS TO BE FITTED WITH AN EFFLUENT FILTER IN ACCORDANCE WITH
- MANUFACTURERS SPECIFICATIONS. 8. TANK AND MANHOLE LIDS ARE TO BE LEFT ACCESSIBLE FOR PUMPING/
- MAINTENANCE/ INSPECTION. 9. A MANTLE IS REQUIRED IN THE DIRECTION OF THE SURFACE DRAINAGE FLOW. IMPORTED SAND MATERIAL IS REQUIRED. THE IMPORTED SAND, WHICH IS TO BE USED TO CONSTRUCT THE SEPTIC SYSTEM INCLUDING THE MANTLE, IS TO HAVE A MAXIMUM PERCOLATION RATE OF 8 MIN/CM, WITH LESS THAN 8% SILT, TESTED AND APPROVED BEFORE PLACEMENT.
- 10. CONSTRUCTION TRAFFIC AND MATERIALS ARE TO BE KEPT AWAY FROM THE SEPTIC SYSTEM, INCLUDING THE MANTLE.
- 11. THE SEPTIC SYSTEM HAS BEEN DESIGNED TO TREAT DOMESTIC WASTE ONLY. THE FOLLOWING ARE NOT TO BE CONNECTED TO THE SEPTIC SYSTEM. -WATER SOFTENER -SUMP PUMP -EAVESTROUGHS/ROOF DRAINS -REFRIGERATION OR CONDENSING UNIT
  - -FLOOR DRAINS -INDUSTRIAL OR AUTOMOTIVE WASTE
- 12. NOVATECH'S DESIGN AND INSPECTION SERVICES DO NOT RELIEVE THE SEPTIC SYSTEM INSTALLER OF THE RESPONSIBILITY FOR GUARANTEEING WORKMANSHIP AND MATERIALS.
- 13. INSTALLATION OF SEPTIC SYSTEM TO BE INSPECTED BY OTTAWA SEPTIC SYSTEM OFFICE (OSSO) AND NOVATECH
- THE CONTRACTOR IS RESPONSIBLE FOR SURVEYING ASBUILT ELEVATIONS AND PROVIDING THE REQUIRED ASBUILT INFORMATION AND DRAWING(S) TO THE OSSO.
- 15. THE PUMPS ARE TO BE EQUIPED WITH A HIGH FLOAT ALARM WHICH IS TO BE INSTALLED A MINIMUM OF 0.05m BELOW THE INLET OF THE PUMP CHAMBER AS WELL AS A LOW FLOW ALARM.



