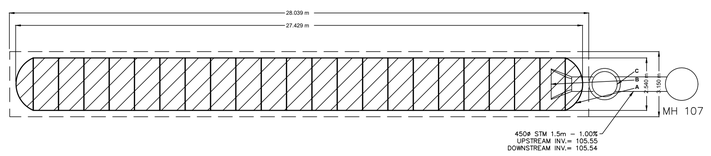
APPROVED
By Allison Hamlin at 7:53 pm, Jan 25, 2023

ALLISON HAMLIN
MANAGER (A), DEVELOPMENT REVIEW WEST
PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT
DEPARTMENT, CITY OF OTTAWA

PROPOSED LAYOUT		CONCEPTUAL ELEVATIONS		*INVERT ABOVE BASE OF CHAMBER					
				PART TYPE	ITEM ON LAYOUT	DESCRIPTION	INVERT*	MAX FLOW
21	STORMTECH MC-4500 CHAMBERS	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)	3.686					
3	STORMTECH MC-4500 END CAPS	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)	3.515					
305	STONE ABOVE (mm)	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)	3.362	PREFABRICATED END CAP	A	600 mm BOTTOM PARTIAL CUT END CAP, PART#: MC4500IEPP24B / TYP OF ALL 600 mm BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS	57 mm	
229	STONE BELOW (mm)	MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT)	3.262		B	INSTALL FLAMP ON 600 mm ACCESS PIPE / PART#: MC45002ARAMP		
40	STONE VOID	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	3.362		C	DESIGN BY ENGINEER / PROVIDED BY OTHERS)		
116.1	INSTALLED SYSTEM VOLUME (m³) (PERIMETER STONE INCLUDED) (COVER STONE INCLUDED) (BASE STONE INCLUDED)	TOP OF STONE:	2.007	CONCRETE STRUCTURE				
		TOP OF MC-4500 CHAMBER:	1.753					
		600 mm ISOLATOR ROW PLUS INVERT:	1.288					
		BOTTOM OF MC-4500 CHAMBER:	0.688					
88.3	SYSTEM AREA (m²)	BOTTOM OF STONE:	0.000					
62.4	SYSTEM PERIMETER (m)							



ISOLATOR ROW PLUS (SEE DETAIL)
NO WOVEN GEOTEXTILE
BED LIMITS

NOTES
- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
- NOT FOR CONSTRUCTION: THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

BOBOLINK RIDGE - MH 107
OTTAWA, ONTARIO
DRAWN: RC
CHECKED: S.L.M.
DATE:
PROJECT #
DESCRIPTION
DATE (DD/MM/YY) | BY | DESCRIPTION
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SCALE = 1 : 100
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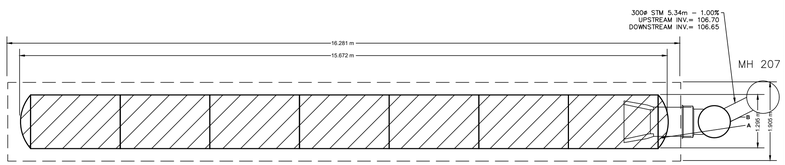
PROPOSED LAYOUT		CONCEPTUAL ELEVATIONS		*INVERT ABOVE BASE OF CHAMBER				
				PART TYPE	ITEM ON LAYOUT	DESCRIPTION	INVERT*	MAX FLOW
7	STORMTECH SC-740 CHAMBERS	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	3.333					
2	STORMTECH SC-740 END CAPS	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)	3.324					
152	STONE ABOVE (mm)	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	3.272	PREFABRICATED END CAP	A	600 mm BOTTOM PREFABRICATED END CAP, PART#: SC740EPE24BR / TYP OF ALL 600 mm ISOLATOR ROW PLUS CONNECTIONS	3 mm	
152	STONE BELOW (mm)	MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	3.324	INTERCEPTOR (INLET W/ ISO PLUS ROW)	B	750 mm DIAMETER (610 mm SUMP MIN)		
40	STONE VOID	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	3.324					
18.7	INSTALLED SYSTEM VOLUME (m³) (PERIMETER STONE INCLUDED) (BASE STONE INCLUDED)	TOP OF STONE:	1.067					
		TOP OF SC-740 CHAMBER:	0.914					
		600 mm ISOLATOR ROW PLUS INVERT:	0.755					
		BOTTOM OF SC-740 CHAMBER:	0.520					
31.0	SYSTEM AREA (m²)	BOTTOM OF STONE:	0.000					
36.4	SYSTEM PERIMETER (m)							



ISOLATOR ROW PLUS (SEE DETAIL)
NO WOVEN GEOTEXTILE
BED LIMITS

NOTES
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- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
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BOBOLINK RIDGE - MH 207
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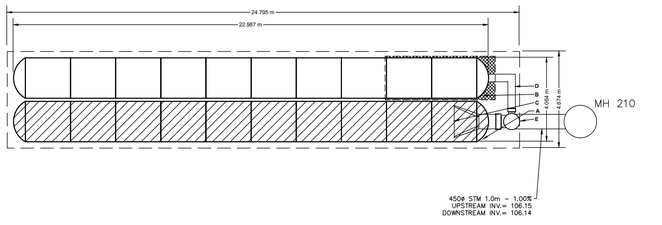
PROPOSED LAYOUT		CONCEPTUAL ELEVATIONS		*INVERT ABOVE BASE OF CHAMBER				
				PART TYPE	ITEM ON LAYOUT	DESCRIPTION	INVERT*	MAX FLOW
20	STORMTECH MC-3500 CHAMBERS	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)	3.810					
3	STORMTECH MC-3500 END CAPS	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)	3.661					
305	STONE ABOVE (mm)	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)	3.508	PREFABRICATED END CAP	A	600 mm BOTTOM PARTIAL CUT END CAP, PART#: MC3500IEPP24BC / TYP OF ALL 600 mm BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS	52 mm	
229	STONE BELOW (mm)	MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT)	1.820	PREFABRICATED END CAP	B	300 mm TOP CORED END CAP, PART#: MC3500IEPP12T / TYP OF ALL 300 mm TOP CONNECTIONS	671 mm	
40	STONE VOID	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	1.820		C	INSTALL FLAMP ON 600 mm ACCESS PIPE / PART#: MC3500ARAMP (TYP 2 PLACES)		
116.1	INSTALLED SYSTEM VOLUME (m³) (PERIMETER STONE INCLUDED) (BASE STONE INCLUDED)	TOP OF STONE:	1.674	FLAMP				
		TOP OF MC-3500 CHAMBER:	1.372	MANIFOLD		D 300 mm x 300 mm TOP MANIFOLD, ADS N-12	670 mm	
		600 mm x 300 mm TOP MANIFOLD INVERT:	0.898	INTERNAL PLANT (INLET W/ ISO PLUS ROW)	E	750 mm DIAMETER (610 mm SUMP MIN)		70 L/s IN
		600 mm ISOLATOR ROW PLUS INVERT:	0.281					
115.9	SYSTEM AREA (m²)	BOTTOM OF MC-3500 CHAMBER:	0.209					
58.9	SYSTEM PERIMETER (m)	BOTTOM OF STONE:	0.000					



ISOLATOR ROW PLUS (SEE DETAIL)
PLACE MINIMUM 5.334 m OF ADSPLUS175 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS
BED LIMITS

NOTES
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BOBOLINK RIDGE - MH 210 (A)
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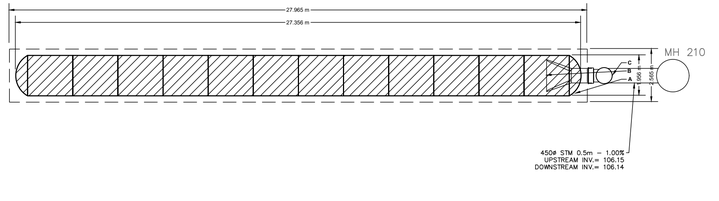
PROPOSED LAYOUT		CONCEPTUAL ELEVATIONS		*INVERT ABOVE BASE OF CHAMBER				
				PART TYPE	ITEM ON LAYOUT	DESCRIPTION	INVERT*	MAX FLOW
12	STORMTECH MC-3500 CHAMBERS	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)	3.820					
3	STORMTECH MC-3500 END CAPS	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)	1.671					
305	STONE ABOVE (mm)	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)	1.520	PREFABRICATED END CAP	A	600 mm BOTTOM CORED END CAP, PART#: MC3500IEPP24BC / TYP OF ALL 600 mm BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS	52 mm	
229	STONE BELOW (mm)	MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT)	1.820		B	INSTALL FLAMP ON 600 mm ACCESS PIPE / PART#: MC3500ARAMP (TYP 2 PLACES)		
40	STONE VOID	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	1.820					
71.0	INSTALLED SYSTEM VOLUME (m³) (PERIMETER STONE INCLUDED) (BASE STONE INCLUDED)	TOP OF STONE:	1.674	INTERCEPTOR (INLET W/ ISO PLUS ROW)	C	750 mm DIAMETER (610 mm SUMP MIN)		
		TOP OF MC-3500 CHAMBER:	1.372					
		600 mm ISOLATOR ROW PLUS INVERT:	0.931					
		BOTTOM OF MC-3500 CHAMBER:	0.209					
71.7	SYSTEM AREA (m²)	BOTTOM OF STONE:	0.000					
61.1	SYSTEM PERIMETER (m)							



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BOBOLINK RIDGE - MH 210 (B)
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No.	BY	DATE	DESCRIPTION
5	S.L.M.	22-12-19	ISSUED FOR CWN
4	S.L.M.	22-12-08	ISSUED FOR CWN
3	S.L.M.	22-09-02	3rd SUBMISSION
2	S.L.M.	22-06-10	2nd SUBMISSION

TOPOGRAPHIC INFORMATION
TOPOGRAPHIC INFORMATION PROVIDED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. PROJECT No. 22111–21 RECEIVED JUNE 24, 2021

LEGAL INFORMATION
CALCULATED M-PLAN PROVIDED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD., PROJECT No. 22111-21, DATED NOVEMBER 29, 2022.

BENCH MARK
SITE BENCHMARK #1, FIRE HYDRANT TOP OF SPINDLE
ELEVATION = 109.78m
SITE BENCHMARK #2, CP IN ASPHALT
ELEVATION = 109.09

TAMARACK HOMES

BOBOLINK RIDGE
BLOCK 343

DSEL
120 Iber Road Unit 103
Stittsville, Ontario, K2S 1E9
Tel. (613) 836-0856
Fax. (613) 836-7183
www.DSEL.ca

LICENSED PROFESSIONAL ENGINEER
S. L. MERRICK
100186523
2022-12-19
PROVINCE OF ONTARIO

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STORM STORAGE CHAMBER DETAILS

DRAWN BY:	G.G.G.	CHECKED BY:	S.L.M.
DESIGNED BY:	G.G.G.	CHECKED BY:	S.L.M.
SCALE:	N.T.S.	PROJECT No.	21–1261
		SHEET No.	4

CITY FILE No. D07-12-21-0230
CITY PLAN No. 18642