PROPOSED LAYOUT

6	STORMTECH MC-4500 CHAMBERS
4	STORMTECH MC-4500 END CAPS
305	STONE ABOVE (mm)
229	STONE BELOW (mm)
40	% STONE VOID
49.0	**INSTALLED SYSTEM VOLUME (m³) (PERIMETER STONE INCLUDED)**
43	SYSTEM AREA (m²)
26	SYSTEM PERIMETER (m)

PROPOSED ELEVATIONS

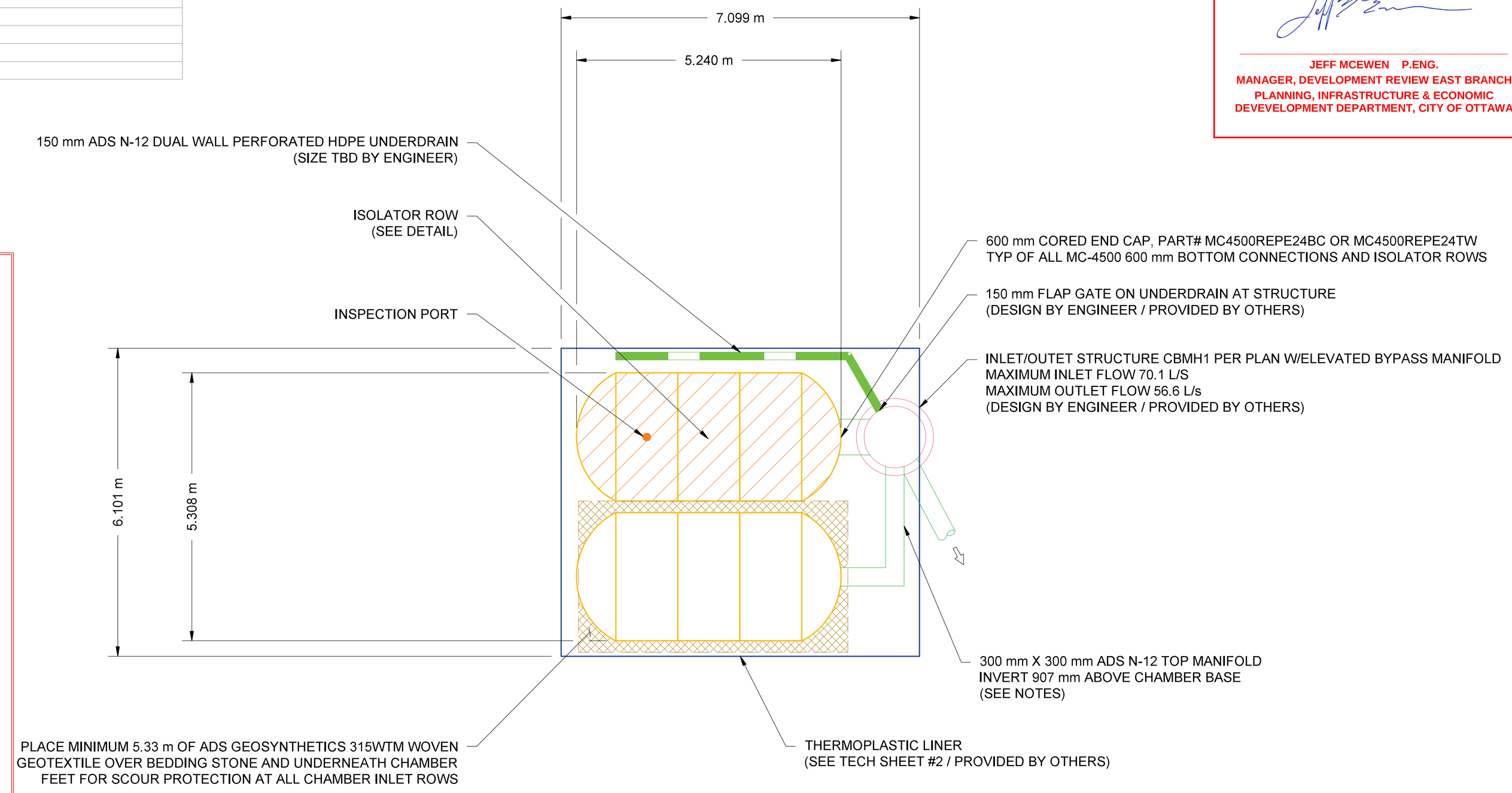
61.814	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):
60.442	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):
60.290	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):
60.290	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):
60.290	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT):
59.985	TOP OF STONE:
59.680	TOP OF MC-4500 CHAMBER:
59.061	300 mm TOP MANIFOLD INVERT:
58.214	600 mm ISOLATOR ROW INVERT:
58.156	BOTTOM OF MC-4500 CHAMBER:
57.927	UNDERDRAIN INVERT:
57.927	BOTTOM OF STONE:

NOTES

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH SHEET #7 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.

APPROVED
By Jeff McEwen at 10:40 am, May 10, 2019

JEFF MCEWEN P.ENG.
MANAGER, DEVELOPMENT REVIEW EAST BRANCH
PLANNING, INFRASTRUCTURE & ECONOMIC
DEVEVELOPMENT DEPARTMENT, CITY OF OTTAWA



PLANMAC ENGINEERING INC.
80 NORTH QUEEN ST, SUITE 302,
ETOBICOKE, ONTARIO, CANADA
M8Z 2C9
TEL. NO. 416 626 5300
FAX 416 622 6710

PLANMAC ENGINEERING INC. CERTIFIES THE THEORETICAL COMPETENCE OF THE PLANS PREPARED BY ADVANCED DRAINAGE SYSTEM INC.,BUT IS NOT ABLE TO CERTIFY THE INTEGRITY OF THE ACTUAL CONSTRUCTION,AND THEREFORE DISCLAIMS ANY LIABILITY FOR THE INTEGRITY OF THE CONSTRUCTION OF THESE WORKS,UNLESS THEY HAVE BEEN RETAINED TO PERFORM CONSTRUCTION SUPERVISION OF THE PROJECT, AS THE WORKS ARE ACTUALLY BEING BUILT. WE WILL ACCEPT NO DEVIATIONS FROM THIS REQUIREMENT IN ORDER FOR US TO CERTIFY THE BUILT WORKS.

REVIEW LIMITED TO THE STRUCTURAL CAPACITY OF THE MC-4500 SYSTEM TO RESIST THE APPLIED DEAD LOAD AND LIVE LOAD ONLY.

PLANMAC ENGINEERRING INC. TAKES NO RESPONSIBILITY FOR THE OVERALL SYSTEM DESIGN FOR HYDRAULIC CAPACITY, SOIL BEARING CAPACITY, LAYOUT AND CHAMBER LOCATIONS OR ELEVATIONS.
LIVE LOAD: CL-625-ONT LIVE LOADING
DEAD LOAD: 46.44 KN/m2 (SLS) & 72.17 KN/m2 (ULS)
PAVEMENT AND AGGREGATE MAX. COVER: 2.1m
PAVEMENT AND AGGREGATE MIN. COVER: 0.60m

LICENSED PROFESSIONAL ENGINEER
K.SHIRANI
100506572
04/12/19
PROVINCE OF ONTARIO

3735 ST JOSEPH BLVD
OTTAWA - ON

DATE: 01-24-19 | DRAWN: DRW | CHECKED: JMQ
PROJECT #: S116226

DATE	DRWN	CHKD	DESCRIPTION
03/12/19	RCT	JMQ	ADDED LINER NOTE/DETAIL

StormTech
Detention • Retention • Water Quality
70 INWOOD ROAD, SUITE 3 | ROCKY HILL | CT | 06067
860-529-8188 | 888-892-2694 | WWW.STORMTECH.COM

ADS
ADVANCED DRAINAGE SYSTEMS, INC.
4640 TRUEMAN BLVD
HILLIARD, OH 43026

SCALE = 1 : 100

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. THE SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.