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#1	ISSUED FOR SPA	19 / 11 / 2020
NO.	REVISION	DATE (DD/MM/YYYY)

CLIENT:

OLIGO DEVELOPMENT
996-B ST. AUGUSTIN RD.
EMBRUN, ON

PROJECT:
**NEW RESIDENTIAL
DEVELOPMENT**
1592 TENTH LINE RD,
ORLEANS, ON

PAGE:
C500

PROPOSED LAYOUT

7	STORMTECH MC-3000 CHAMBERS
2	STORMTECH MC-3000 END CAPS
306	STONE ABOVE (mm)
229	STONE BELOW (mm)
40	% STONE VOID
37.1	INITIATED SYSTEM VOLUME (m³) ABOVE ELEVATION 86.06
43.7	(PERIMETER STONE INCLUDED)
39.7	SYSTEM PERMEABILITY (m)

PROPOSED ELEVATIONS

89.029	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):
87.701	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):
87.548	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):
87.548	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):
87.548	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT):
87.386	TOP OF STONE:
87.091	TOP OF MC-3000 CHAMBER:
86.000	600 mm ISOLATOR ROW PLUS INVERT:
85.948	BOTTOM OF MC-3000 CHAMBER:
85.719	BOTTOM OF STONE:

NOTES

- MANHOLE SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANHOLE 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 MANHOLE 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 INSTALLED SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.

INSPECTION PORT (SEE DETAIL)

ISOLATOR ROW PLUS (SEE DETAIL)

INSTALL FLANGE ON 600 mm ACCESS PIPE PARTW MC3000/RAMP (SEE DETAIL)

600 mm PARTIAL CUT END CAP, PARTW MC3000/EP248C OR MC3000/EP248W

TYP OF ALL MC-3000 600 mm BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS

STM CBMH02 PER PLAN (DESIGN BY ENGINEER / PROVIDED BY OTHERS)

2.565 m
1.668 m

16.440 m
17.050 m

MC-3500 ISOLATOR ROW PLUS DETAIL

INSTALL FLAMP ON 24" (600 mm) ACCESS PIPE
PART # MC3500GAMP

MC-3500 CHAMBER

OPTIONAL INSPECTION POINT

MC-3500 END CAP

STORMTECH HIGHLY RECOMMENDS FLEXFORM INSERTS IN ANY UPSTREAM STRUCTURES WITH OPEN GRATES

ELEVATED BYPASS MANHOLE

SUMP DEPTH TBD BY SITE DESIGN ENGINEER (24" (600 mm) MIN. RECOMMENDED)

CATCH BASIN OR MANHOLE

24" (600 mm) HDPE ACCESS PIPE REQUIRED
USE FACTORY PARTIAL CUT END CAP PART #:
MC3500EPP24BC OR MC3500EPP24BW

ONE LAYER OF ADS PLUS 175 WOVEN GEOTEXTILE BETWEEN FOUNDATION STONE AND CHAMBER
8.25' (2.51 m) MIN. WIDE CONTINUOUS FABRIC WITHOUT SEAMS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT

- INSPECTION POINTS (IF PRESENT)
 - REMOVE COVER LID ON NYLOPLAST INLINE DRAIN
 - REMOVE AND CLEAN FLEXFORM FILTER IF INSTALLED
 - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS. MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
- IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

B. ALL ISOLATOR PLUS ROWS

- REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
- USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
- MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
- FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE

B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS

- A FIXED OR VENT CLEANING NOZZLE WITH REAR PACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACUUMING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

MC-3500 6" (150 mm) INSPECTION POINT DETAIL

CONCRETE COLLAR PAVEMENT

CONCRETE SLAB
8" (200 mm) MIN THICKNESS

18" (450 mm) MIN WIDTH

CONCRETE COLLAR NOT REQUIRED FOR UNPAVED APPLICATIONS

12" (300 mm) NYLOPLAST INLINE DRAIN BODY W/ SOLID HINGED COVER
PART # 212AG6SP
SOLID COVER: 1265CQ2

6" (150 mm) SDR33 PIPE

MC-3500 CHAMBER

8" (150 mm) INSERTA TEE
PART # 40SP80STOP
INSERTA TEE TO BE CENTERED IN VALLEY OF CORRUGATIONS

* THE PART # 212AG6SPKIT CAN BE USED TO ORDER ALL NECESSARY COMPONENTS FOR A SOLID LID INSPECTION POINT INSTALLATION