

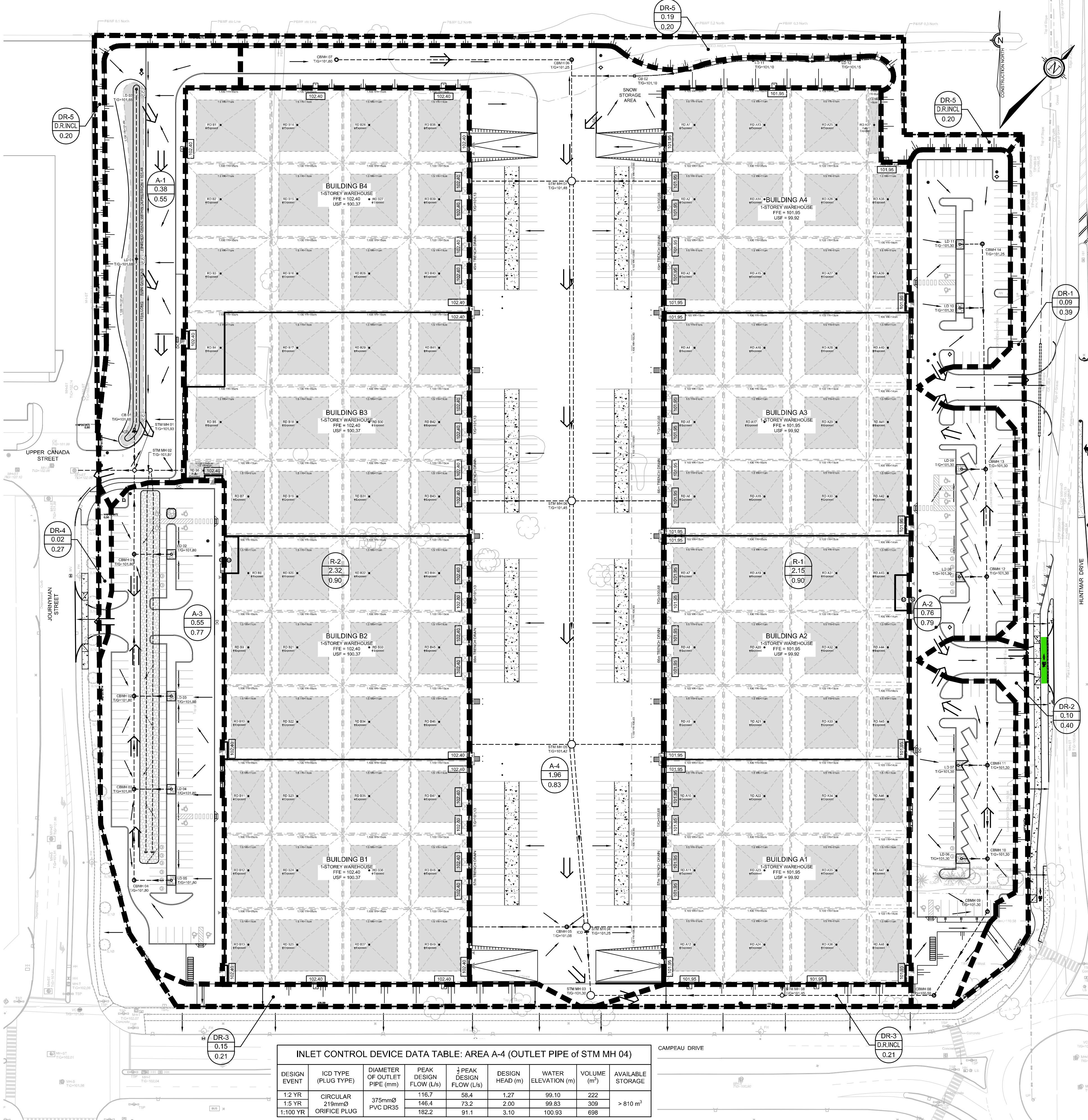
BUILDING 'A' ROOF DRAIN TABLE: AREA R-1 (ROOF DRAINS A1 to A48)						
AREA ID *	ROOF DRAIN NO. (WATTS MODEL)	ROOF DRAIN OPENING SETTING	1.5 YEAR RELEASE RATE	APPROX. 5-YR PONDING DEPTH	1-100 YEAR RELEASE RATE	APPROX. 100-YR PONDING DEPTH
R-1	RD 1 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-1	RD 2 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-1	RD 3 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-1	RD 4 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-1	RD 5 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-1	RD 6 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-1	RD 7 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-1	RD 8 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-1	RD 9 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-1	RD 10 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-1	RD 11 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-1	RD 12 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-1	RD 13 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-1	RD 14 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-1	RD 15 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-1	RD 16 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-1	RD 17 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-1	RD 18 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-1	RD 19 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-1	RD 20 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-1	RD 21 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-1	RD 22 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-1	RD 23 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-1	RD 24 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-1	RD 25 (RD-100-A-ADJ)	1/2 EXPOSED	1.10 L/s	11 cm	1.26 L/s	15 cm
R-1	RD 26 (RD-100-A-ADJ)	1/2 EXPOSED	1.10 L/s	11 cm	1.26 L/s	15 cm
R-1	RD 27 (RD-100-A-ADJ)	1/2 EXPOSED	1.10 L/s	11 cm	1.26 L/s	15 cm
R-1	RD 28 (RD-100-A-ADJ)	1/2 EXPOSED	1.10 L/s	11 cm	1.26 L/s	15 cm
R-1	RD 29 (RD-100-A-ADJ)	1/2 EXPOSED	1.10 L/s	11 cm	1.26 L/s	15 cm
R-1	RD 30 (RD-100-A-ADJ)	1/2 EXPOSED	1.10 L/s	11 cm	1.26 L/s	15 cm
R-1	RD 31 (RD-100-A-ADJ)	1/2 EXPOSED	1.10 L/s	11 cm	1.26 L/s	15 cm
R-1	RD 32 (RD-100-A-ADJ)	1/2 EXPOSED	1.10 L/s	11 cm	1.26 L/s	15 cm
R-1	RD 33 (RD-100-A-ADJ)	1/2 EXPOSED	1.10 L/s	11 cm	1.26 L/s	15 cm
R-1	RD 34 (RD-100-A-ADJ)	1/2 EXPOSED	1.10 L/s	11 cm	1.26 L/s	15 cm
R-1	RD 35 (RD-100-A-ADJ)	1/2 EXPOSED	1.10 L/s	11 cm	1.26 L/s	15 cm
R-1	RD 36 (RD-100-A-ADJ)	1/2 EXPOSED	1.10 L/s	11 cm	1.26 L/s	15 cm
R-1	RD 37 (RD-100-A-ADJ)	FULLY EXPOSED	0.79 L/s	6 cm	0.95 L/s	8 cm
R-1	RD 38 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	14 cm
R-1	RD 39 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	14 cm
R-1	RD 40 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	14 cm
R-1	RD 41 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	14 cm
R-1	RD 42 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	14 cm
R-1	RD 43 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	14 cm
R-1	RD 44 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	14 cm
R-1	RD 45 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	14 cm
R-1	RD 46 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	14 cm
R-1	RD 47 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	14 cm
R-1	RD 48 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	14 cm

INLET CONTROL DEVICE DATA TABLE: AREA A-1 (OUTLET PIPE of CB 01)								
DESIGN EVENT	ICD TYPE (PLUG TYPE)	DIAMETER OF OUTLET PIPE (mm)	PEAK DESIGN FLOW (L/s)	1/4 PEAK DESIGN FLOW (L/s)	DESIGN HEAD (m)	WATER ELEVATION (m)	VOLUME (m <sup>3</sup> )	AVAILABLE STORAGE
1.2 YR	CIRCULAR	250mmØ	61.2	30.6	0.94	101.55	8.9	> 120 m <sup>3</sup>
1.5 YR	17mmØ ORIFICE PLUG	PVC DR35	62.8	31.4	0.99	101.60	17.5	
1-100 YR			65.6	32.8	1.08	101.69	55.7	

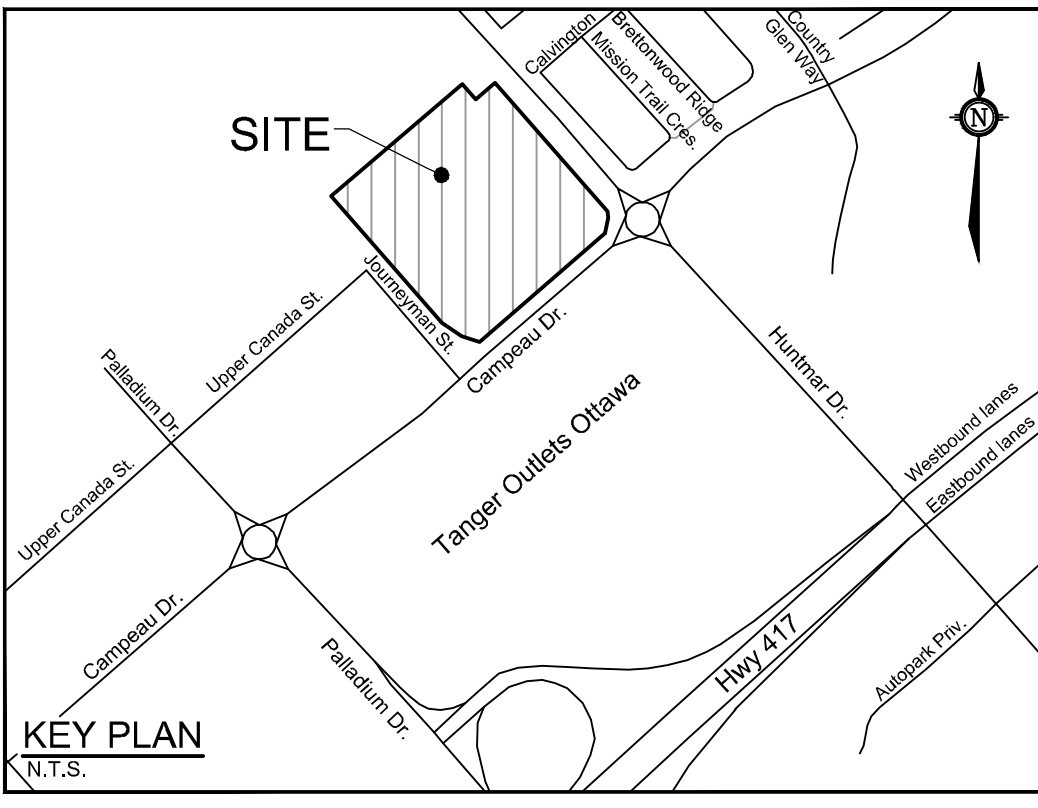
BUILDING 'B' ROOF DRAIN TABLE: AREA R-2 (ROOF DRAINS B1 to B49)						
AREA ID *	ROOF DRAIN NO. (WATTS MODEL)	ROOF DRAIN OPENING SETTING	1.5 YEAR RELEASE RATE	APPROX. 5-YR PONDING DEPTH	1-100 YEAR RELEASE RATE	APPROX. 100-YR PONDING DEPTH
R-2	RD 1 (RD-100-A-ADJ)	1/2 EXPOSED	1.10 L/s	11 cm	1.26 L/s	15 cm
R-2	RD 2 (RD-100-A-ADJ)	1/2 EXPOSED	1.10 L/s	11 cm	1.26 L/s	15 cm
R-2	RD 3 (RD-100-A-ADJ)	1/2 EXPOSED	1.10 L/s	11 cm	1.26 L/s	15 cm
R-2	RD 4 (RD-100-A-ADJ)	1/2 EXPOSED	1.10 L/s	11 cm	1.26 L/s	15 cm
R-2	RD 5 (RD-100-A-ADJ)	1/2 EXPOSED	1.10 L/s	11 cm	1.26 L/s	15 cm
R-2	RD 6 (RD-100-A-ADJ)	FULLY EXPOSED	0.79 L/s	6 cm	0.95 L/s	8 cm
R-2	RD 7 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 8 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 9 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 10 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 11 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 12 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 13 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 14 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 15 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 16 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 17 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 18 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 19 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 20 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 21 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 22 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 23 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 24 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 25 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 26 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 27 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 28 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 29 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 30 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 31 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 32 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 33 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 34 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 35 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 36 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 37 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 38 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 39 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 40 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 41 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 42 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 43 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 44 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 45 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 46 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 47 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 48 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 49 (RD-100-A-ADJ)	1/4 EXPOSED	0.87 L/s	11 cm	0.95 L/s	15 cm

\* REFER TO THE 'DEVELOPMENT SERVICING STUDY AND STORMWATER MANAGEMENT REPORT' (R-2022-...) PREPARED BY NOVATECH FOR DRAINAGE AREA IDENTIFIERS AND STORMWATER MANAGEMENT DETAILS.  
 \*\* ALL CONTROLLED FLOW ROOF DRAINS FOR THE PROPOSED BUILDINGS TO BE WATTS 'ADJUSTABLE ACCUTROL' ROOF DRAINS.

NOTE:  
 THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES 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.

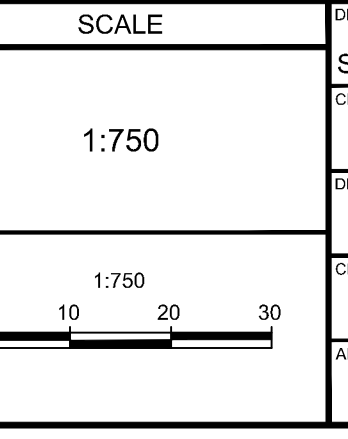


INLET CONTROL DEVICE DATA TABLE: AREA A-4 (OUTLET PIPE of STM MH 04)								
DESIGN EVENT	ICD TYPE (PLUG TYPE)	DIAMETER OF OUTLET PIPE (mm)	PEAK DESIGN FLOW (L/s)	1/4 PEAK DESIGN FLOW (L/s)	DESIGN HEAD (m)	WATER ELEVATION (m)	VOLUME (m <sup>3</sup> )	AVAILABLE STORAGE
1.2 YR	CIRCULAR	375mmØ	116.7	58.4	1.27	99.10	222	> 810 m <sup>3</sup>
1.5 YR	219mmØ ORIFICE PLUG	PVC DR35	146.4	73.2	2.00	99.83	309	
1-100 YR			182.2	91.1	3.10	100.93	698	



THIS PLAN IS TO BE READ IN CONJUNCTION WITH CIVIL PLANS 122151-NLD1&2, 122151-GP1&2 AND 122151-GR1&GR2

No.	REVISION	DATE	BY
2	REVISED PER CITY COMMENTS	MAR 30/23	DDB
1	ISSUED FOR CITY OF OTTAWA REVIEW	DEC 16/22	DDB



FOR REVIEW ONLY

DESIGN: SM / BM / DDB  
 CHECKED: DDB  
 DRAWN: SM  
 CHECKED: BM / DDB  
 APPROVED: DDB

PROFESSIONAL ENGINEER  
 D. D. BLAIR  
 100122737  
 PROVINCE OF ONTARIO

**NOVATECH**  
 Engineers, Planners & Landscape Architects  
 Suite 200, 240 Michael Cowpland Drive  
 Ottawa, Ontario, Canada K2M 1P6  
 Telephone: (613) 254-9643  
 Facsimile: (613) 254-5867  
 Website: www.novatech-eng.com

LOCATION: CITY OF OTTAWA, 405 HUNTMAR DRIVE - WAREHOUSE DEVELOPMENT

DRAWING NAME: POST-DEVELOPMENT STORMWATER MANAGEMENT PLAN

PROJECT No.: 122151  
 REV # 2  
 DRAWING No.: 122151-SWM

M:\2022\122151\122151-SWM.dwg, SWM, Mar 29, 2023, 8:24pm, gmathews

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