

EDWARD J CUHACI & ASSOCIATES ARCHITECTS Inc.
 171 Slater St, Suite 100, Ottawa, Ontario, K1P 5H7
 Fax: (613) 236-1944 Telephone: (613) 236-7135 E-mail: info@cuhaci.com



300-2611 QUEENSWAY DRIVE
 OTTAWA ONTARIO CANADA K2B 8K2
 TEL: 1-613-829-2800 | FAX: 1-613-829-8299 | WWW.WSPGROUP.COM

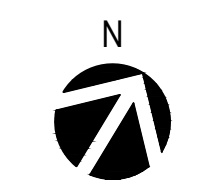
ÉCOLES ÉLÉMENTAIRE CATHOLIQUE AVALON III
 TENTH LINE ROAD
 OTTAWA, ON

CONSEIL DES ÉCOLES CATHOLIQUES DU CENTRE-EST
 4000, RUE LABELLE, OTTAWA, ON K1J 1A1



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 BENCHMARK #1 N: 5333845.03 E: 344791.31 Z: 288.40
 BENCHMARK #2 N: 5333885.99 E: 344889.28 Z: 287.89

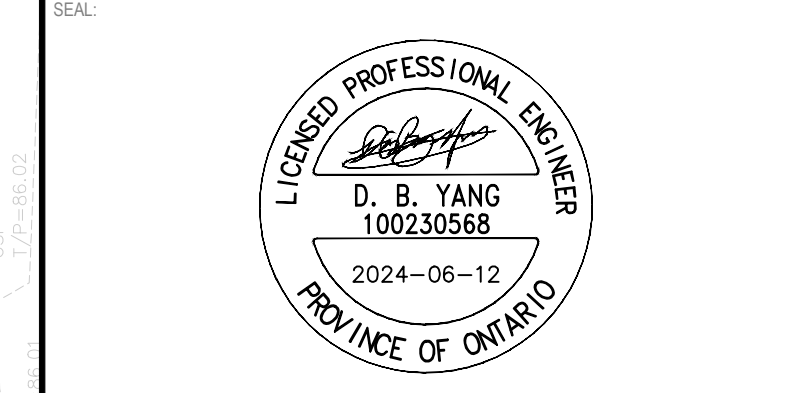


ISSUED FOR - REVISION	DATE	DESCRIPTION
7	2024-06-12	REVISED AS PER CITY COMMENT
6	2024-04-18	REVISED AS PER CITY COMMENT
5	2024-03-14	ISSUED FOR TENDER
4	2024-02-16	REVISED AS PER CITY COMMENT
3	2023-12-18	ISSUED FOR BUILDING PERMIT
2	2023-07-21	ISSUED FOR BUILDING PERMIT
1	2023-06-02	ISSUED FOR SPA

PROJECT NO:	DATE:
221-12984-00	2024-06-12
ORIGINAL SCALE:	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.
1:300	
DESIGNED BY:	DRAWN BY:
D.Y./M.S.	S.T.R.
CHECKED BY:	DATE:
D.Y.	

DISCIPLINE:	TITLE:
CIVIL	GRADING PLAN
SHEET NUMBER:	OF
C02	
ISSUE:	REV #
REVISED AS PER CITY COMMENT	0
DATE OF:	
2024-06-12	

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REMARKS: BEARING ARE GRID DERIVED FROM THE CAN-NAT REAL TIME NETWORK GPS OBSERVATIONS. REFERENCED TO SPECIFIED CONTROL POINTS 01919800154 AND 01919840161. MTM ZONE 9 (P) 3 WEST (NAD83) (NAD83) (ORIGINAL) BENCHMARK #1 N 503345.03 E 394979.31 Z 288.40 BENCHMARK #2 N 503345.03 E 394979.31 Z 287.89

NORTHING

ISSUED FOR - REVISION	NO.	DATE	DESCRIPTION
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6	2024-04-18	REVISED AS PER CITY COMMENT	
5	2024-03-14	ISSUED FOR TENDER	
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2	2023-07-21	ISSUED FOR BUILDING PERMIT	
1	2023-06-02	ISSUED FOR SPA	

PROJECT NO.	DATE
221-12984-00	2024-06-12

ORIGINAL SCALE:	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.
1:300	

DESIGNED BY: D.Y.M.S.
DRAWN BY: S.T.R.
CHECKED BY: D.Y.

DISCIPLINE: CIVIL

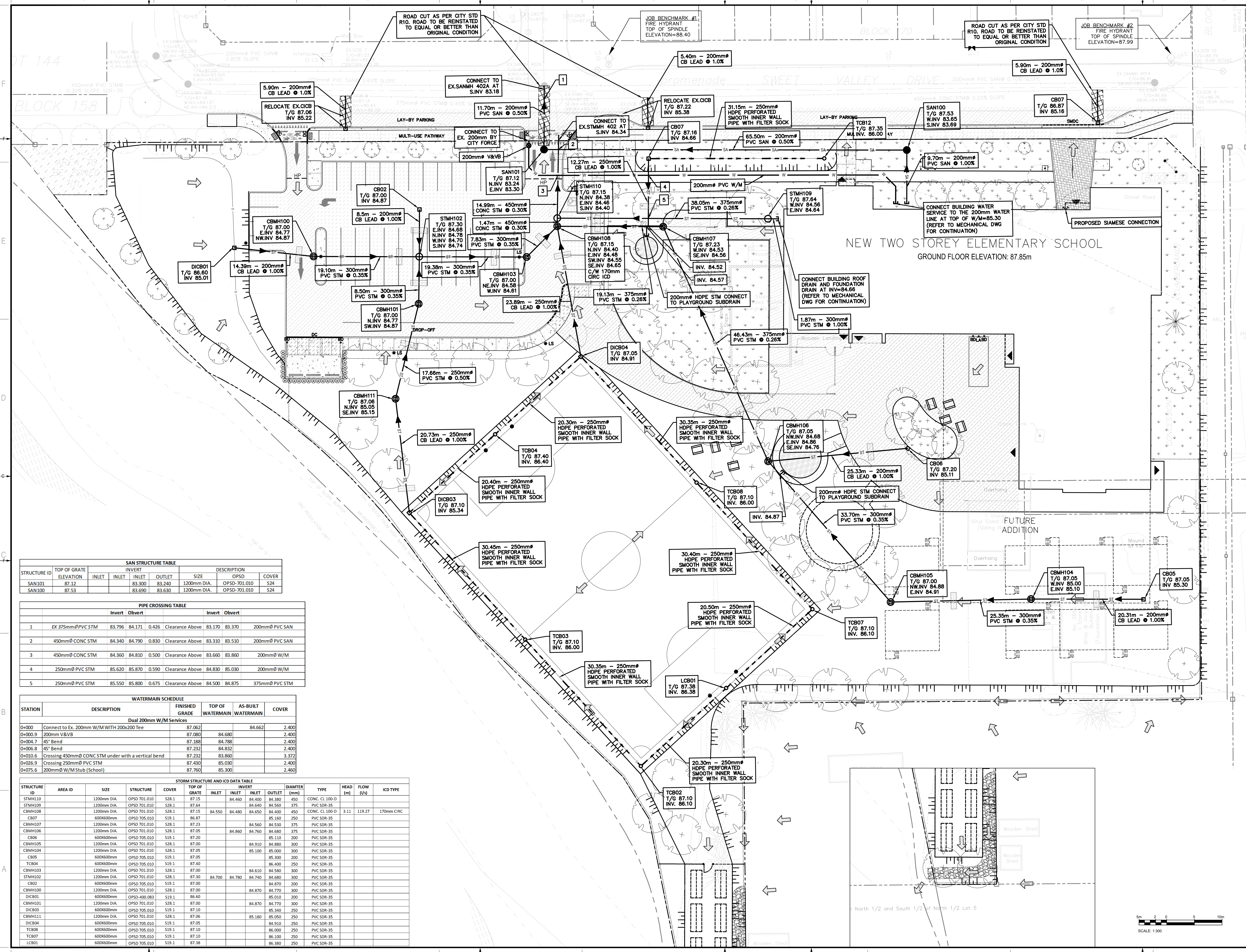
TITLE: SERVICING PLAN

SHEET NUMBER: C03

ISSUE: REVISED AS PER CITY COMMENT

DATE OF: 2024-06-12

REV # 0

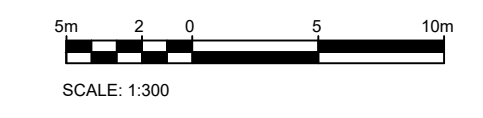


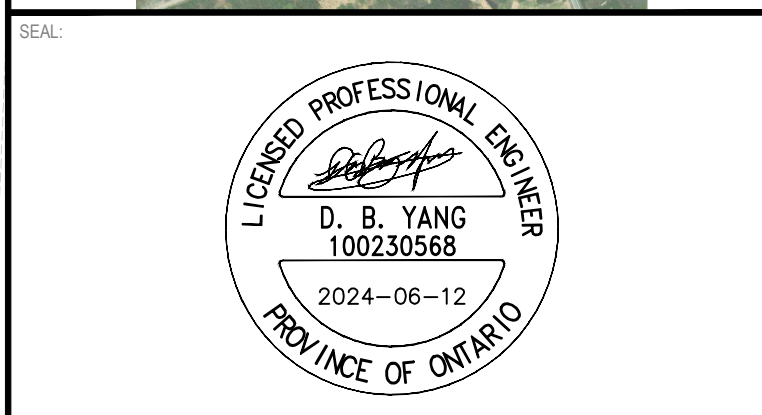
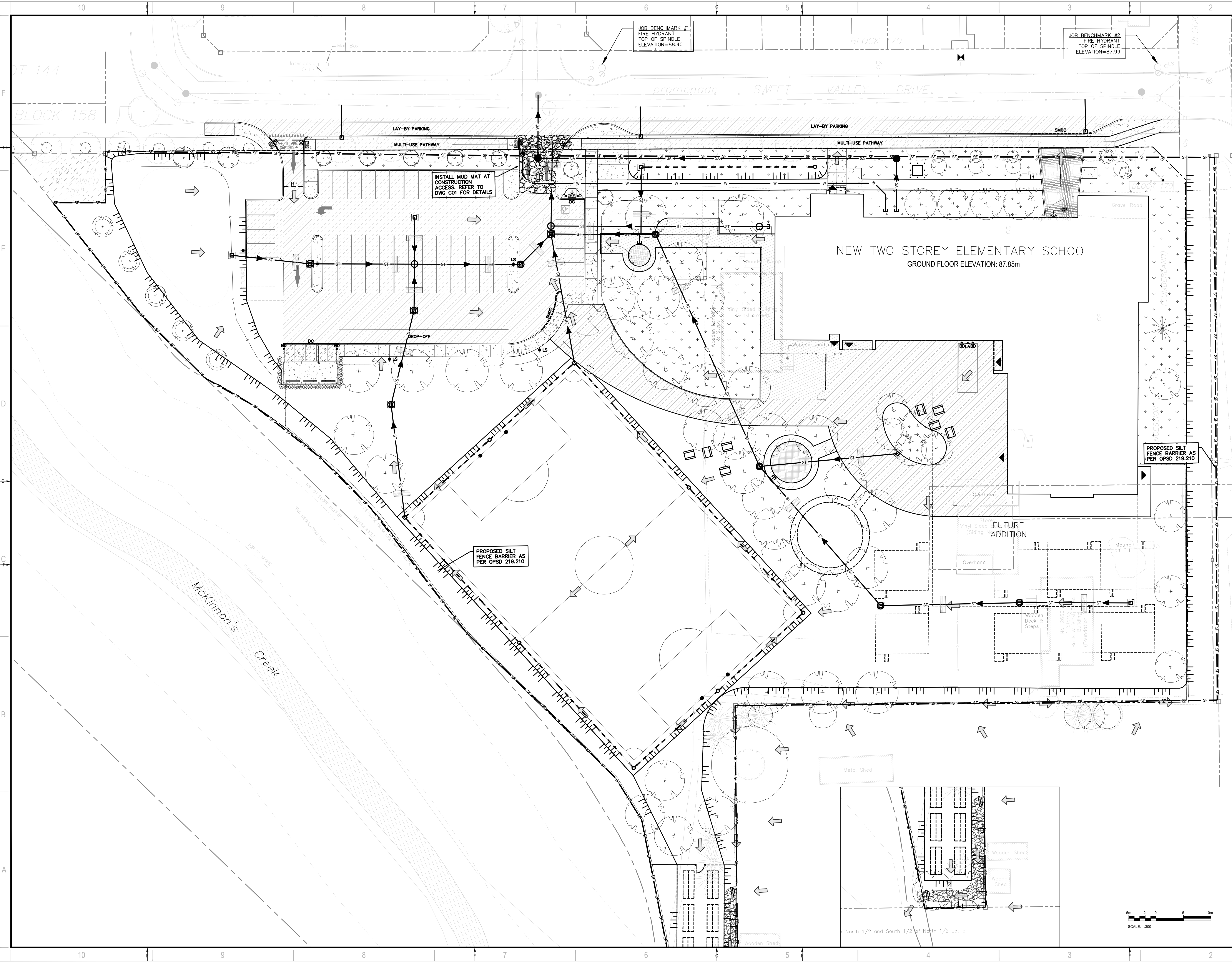
SAN STRUCTURE TABLE						
STRUCTURE ID	TOP OF GRATE ELEVATION	INLET	INLET	OUTLET	SIZE	DESCRIPTION
SAN101	87.12	83.300	83.240	83.240	1200mm DIA.	OPSD-701.010 S24
SAN100	87.53	83.690	83.630	83.630	1200mm DIA.	OPSD-701.010 S24

PIPE CROSSING TABLE						
	Invert	Obvert		Invert	Obvert	
1	EX 375mm PVC STM	83.796	84.171	0.426	Clearance Above	83.170 83.370 200mm PVC SAN
2	450mm CONC STM	84.340	84.790	0.830	Clearance Above	83.310 83.510 200mm PVC SAN
3	450mm CONC STM	84.360	84.810	0.500	Clearance Above	83.660 83.860 200mm W/M
4	250mm PVC STM	85.620	85.870	0.590	Clearance Above	84.830 85.030 200mm W/M
5	250mm PVC STM	85.550	85.800	0.675	Clearance Above	84.500 84.875 375mm PVC STM

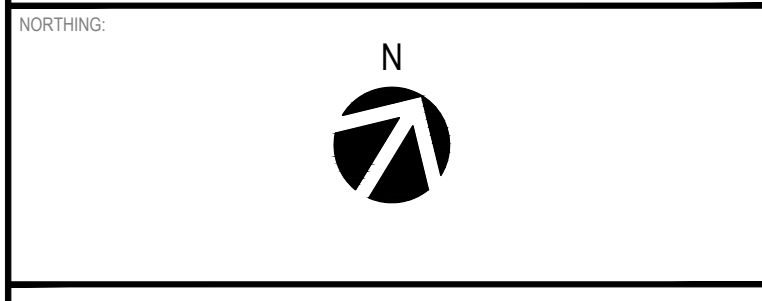
WATERMAIN SCHEDULE					
STATION	DESCRIPTION	FINISHED GRADE	TOP OF WATERMAIN	AS-BUILT WATERMAIN	COVER
0+000	Connect to Ex. 200mm W/M WITH 200x200 Tee	87.062	84.662	84.662	2.400
0+000.9	200mm V&VB	87.080	84.680	84.680	2.400
0+004.7	45° Bend	87.188	84.788	84.788	2.400
0+006.8	45° Bend	87.232	84.832	84.832	2.400
0+010.6	Crossing 450mm CONC STM under with a vertical bend	87.232	83.860	83.860	3.372
0+026.9	Crossing 250mm PVC STM	87.430	85.030	85.030	2.400
0+075.6	200mm W/M Stub (School)	87.760	85.300	85.300	2.460

STORM STRUCTURE AND ICD DATA TABLE											
STRUCTURE ID	AREA ID	SIZE	STRUCTURE	COVER	TOP OF GRATE			INVERT	DIAMETER (mm)	TYPE	ICD TYPE
					INLET	INLET	OUTLET				
STMH109		1200mm DIA.	OPSD 701.010	S28.1	87.15	84.460	84.400	84.380	450	CONC. CL 100-D	
STMH109		1200mm DIA.	OPSD 701.010	S28.1	87.64	84.640	84.560	84.560	375	PVC SDR-35	
CBMH108		1200mm DIA.	OPSD 701.010	S28.1	87.15	84.550	84.480	84.400	450	CONC. CL 100-D	
CB07		600x600mm	OPSD 705.010	S19.1	86.87	84.560	84.530	85.160	250	PVC SDR-35	
CBMH107		1200mm DIA.	OPSD 701.010	S28.1	87.23	84.560	84.530	84.530	375	PVC SDR-35	
CBMH106		1200mm DIA.	OPSD 701.010	S28.1	87.05	84.860	84.760	84.680	375	PVC SDR-35	
CB06		600x600mm	OPSD 705.010	S19.1	87.20	85.110	85.110	85.110	200	PVC SDR-35	
CBMH105		1200mm DIA.	OPSD 701.010	S28.1	87.00	84.910	84.880	84.880	300	PVC SDR-35	
CBMH104		1200mm DIA.	OPSD 701.010	S28.1	87.05	85.100	85.000	85.000	300	PVC SDR-35	
CB05		600x600mm	OPSD 705.010	S19.1	87.05	85.300	85.300	85.300	200	PVC SDR-35	
TCB04		600x600mm	OPSD 705.010	S19.1	87.40	86.400	86.400	86.400	250	PVC SDR-35	
CBMH103		1200mm DIA.	OPSD 701.010	S28.1	87.00	84.610	84.580	84.580	300	PVC SDR-35	
STMH102		1200mm DIA.	OPSD 701.010	S28.1	87.30	84.700	84.740	84.680	300	PVC SDR-35	
CB02		600x600mm	OPSD 705.010	S19.1	87.00	84.870	84.870	84.870	200	PVC SDR-35	
CBMH100		1200mm DIA.	OPSD 701.010	S28.1	87.00	84.870	84.770	84.770	300	PVC SDR-35	
DICB01		600x600mm	OPSD-400.083	S19.1	86.40	85.010	85.010	85.010	200	PVC SDR-35	
CBMH101		1200mm DIA.	OPSD 701.010	S28.1	87.00	84.770	84.770	84.770	300	PVC SDR-35	
DICB03		600x600mm	OPSD 705.010	S19.1	87.10	85.340	85.340	85.340	250	PVC SDR-35	
CBMH111		1200mm DIA.	OPSD 701.010	S28.1	87.06	85.180	85.050	85.050	250	PVC SDR-35	
DICB04		600x600mm	OPSD 705.010	S19.1	87.05	84.910	84.910	84.910	250	PVC SDR-35	
TCB08		600x600mm	OPSD 705.010	S19.1	87.10	86.000	86.000	86.000	250	PVC SDR-35	
TCB07		600x600mm	OPSD 705.010	S19.1	87.10	86.100	86.100	86.100	250	PVC SDR-35	
LCB01		600x600mm	OPSD 705.010	S19.1	87.38	86.380	86.380	86.380	250	PVC SDR-35	





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BENCHMARK #1 N: 5032945.03 E: 384791.31 Z: 288.40
BENCHMARK #2 N: 5032983.99 E: 384895.28 Z: 287.89
NORTHING



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2	2023-07-21	2023-07-21	ISSUED FOR BUILDING PERMIT
1	2023-06-02	2023-06-02	ISSUED FOR SPA

PROJECT NO:	DATE:
221-12984-00	2024-06-12
ORIGINAL SCALE:	IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.
1:300	
DESIGNED BY:	D.Y./M.S.
DRAWN BY:	S.T.R.
CHECKED BY:	D.Y.
DISCIPLINE:	CIVIL

EROSION AND SEDIMENT CONTROL PLAN

SHEET NUMBER:	DATE OF:	REV #:
C04	2024-06-12	0



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ÉCOLE ÉLÉMENTAIRE CATHOLIQUE AVALON III
 TENTH LINE ROAD
 OTTAWA, ON

CONSEIL DES ÉCOLES CATHOLIQUES DU CENTRE-EST
 4000, RUE LABELLE, OTTAWA, ON K1J 1A1



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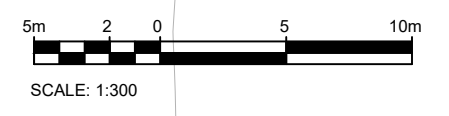
BEARING NOTE:
 BEARINGS ARE GRID DERIVED FROM THE CAN-NET REAL TIME NETWORK GPS OBSERVATIONS, REFERENCED TO SPECIFIED CONTROL POINTS (191980154 AND 019184476), MTM ZONE 9 (P3) WEST (CONTRADICTORY IN ORIGINAL)
 BENCHMARK #1 N: 5033945.03 E: 384791.31 Z: 88.40
 BENCHMARK #2 N: 5033983.99 E: 384895.26 Z: 87.89



ISSUE NO.	DATE	DESCRIPTION
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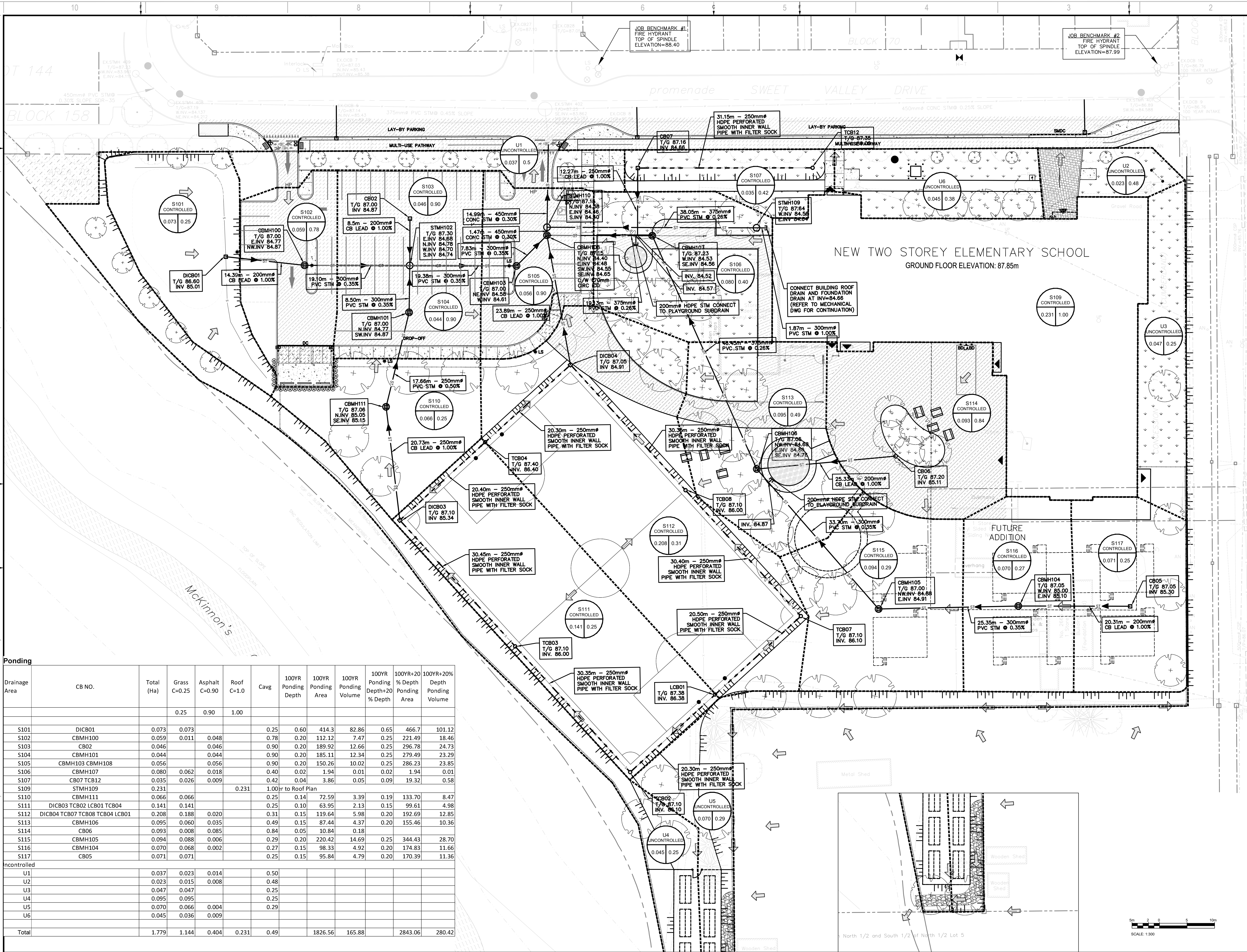
PROJECT NO:	221-12984-00	DATE:	2024-06-12
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DESIGNED BY:	D.Y./M.S.		
DRAWN BY:	S.T.R.		
CHECKED BY:	D.Y.		
DISCIPLINE:	CIVIL		

TITLE:	PRE-DEVELOPMENT DRAINAGE AREA PLAN		
SHEET NUMBER:	C05		
SHEET #:	OF	REV #	
ISSUE:	REVISED AS PER CITY COMMENT		0
DATE OF:	2024-06-12		



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#19079 D07-12-23-0094



Ponding

Drainage Area	CB NO.	Total (Ha)	Grass C=0.25	Asphalt C=0.90	Roof C=1.0	Cavg	100YR Ponding Depth	100YR Ponding Area	100YR Ponding Volume	100YR Ponding Depth+20% Depth	100YR+20% Depth Ponding Volume	
S101	DICB01	0.073	0.073				0.25	0.60	414.3	82.86	0.65	466.7
S102	CBMH100	0.059	0.011	0.048			0.78	0.20	112.12	7.47	0.25	221.49
S103	CB02	0.046		0.046			0.90	0.20	189.92	12.66	0.25	296.78
S104	CBMH101	0.044		0.044			0.90	0.20	185.11	12.34	0.25	279.49
S105	CBMH103 CBMH108	0.056		0.056			0.90	0.20	150.26	10.02	0.25	286.23
S106	CBMH107	0.080	0.062	0.018			0.40	0.02	1.94	0.01	0.02	1.94
S107	CB07 TCB12	0.035	0.026	0.009			0.42	0.04	3.86	0.05	0.09	19.32
S109	STMH109	0.231			0.231		1.00hr to Roof Plan					
S110	CBMH111	0.066	0.066				0.25	0.14	72.59	3.39	0.19	133.70
S111	DICB03 TCB02 LCB01 TCB04	0.141	0.141				0.25	0.10	63.95	2.13	0.15	99.61
S112	DICB04 TCB07 TCB08 TCB04 LCB01	0.208	0.188	0.020			0.31	0.15	119.64	5.98	0.20	192.69
S113	CBMH106	0.095	0.060	0.035			0.49	0.15	87.44	4.37	0.20	155.46
S114	CB06	0.093	0.008	0.085			0.84	0.05	10.84	0.18		
S115	CBMH105	0.094	0.088	0.006			0.29	0.20	220.42	14.69	0.25	344.43
S116	CBMH104	0.070	0.068	0.002			0.27	0.15	98.33	4.92	0.20	174.83
S117	CB05	0.071	0.071				0.25	0.15	95.84	4.79	0.20	170.39
U1		0.037	0.023	0.014			0.50					
U2		0.023	0.015	0.008			0.48					
U3		0.047	0.047				0.25					
U4		0.095	0.095				0.25					
U5		0.070	0.066	0.004			0.29					
U6		0.045	0.036	0.009			0.25					
Total		1.779	1.144	0.404	0.231	0.49			1826.56	165.88		2843.06



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 4000, RUE LABELLE, OTTAWA, ON K1J 1A1



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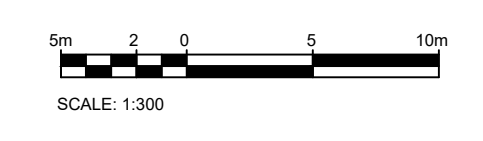
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PROJECT NO: 221-12984-00 DATE: 2024-06-12
 ORIGINAL SCALE: 1:300
 DESIGNED BY: D.Y./M.S.
 DRAWN BY: S.T.R.
 CHECKED BY: D.Y.
 DISCIPLINE: CIVIL
 TITLE: STORM DRAINAGE AREA PLAN
 SHEET NUMBER: C06
 SHEET # OF: 0
 ISSUE: REVISED AS PER CITY COMMENT
 DATE OF: 2024-06-12



WATTS Adjustable Accutrol Weir Adjustable Flow Control for Roof Drains

ADJUSTABLE ACCUTROL (for Large Sump Roof Drains only)

For more flexibility in controlling flow with heads deeper than 2", Watts Drainage offers the Adjustable Accutrol. The Adjustable Accutrol Weir is designed with a single parabolic opening that can be covered to restrict flow above 2" of head to less than 5 gpm per inch, up to 6" of head. To adjust the flow rate for depths over 2" of head, set the slot in the adjustable upper cone according to the flow rate required. Refer to Table 1 below.

Note: Flow rates are directly proportional to the amount of weir opening that is exposed.

EXAMPLE:

For example, if the adjustable upper cone is set to cover 1/2 of the weir opening, flow rates above 2" of head will be restricted to 2-1/2 gpm per inch of head.

Therefore, at 3" of head, the flow rate through the Accutrol Weir that has 1/2 the slot exposed will be: [5 gpm (per inch of head) x 2 inches of head] + 2-1/2 gpm (for the third inch of head) = 12-1/2 gpm.

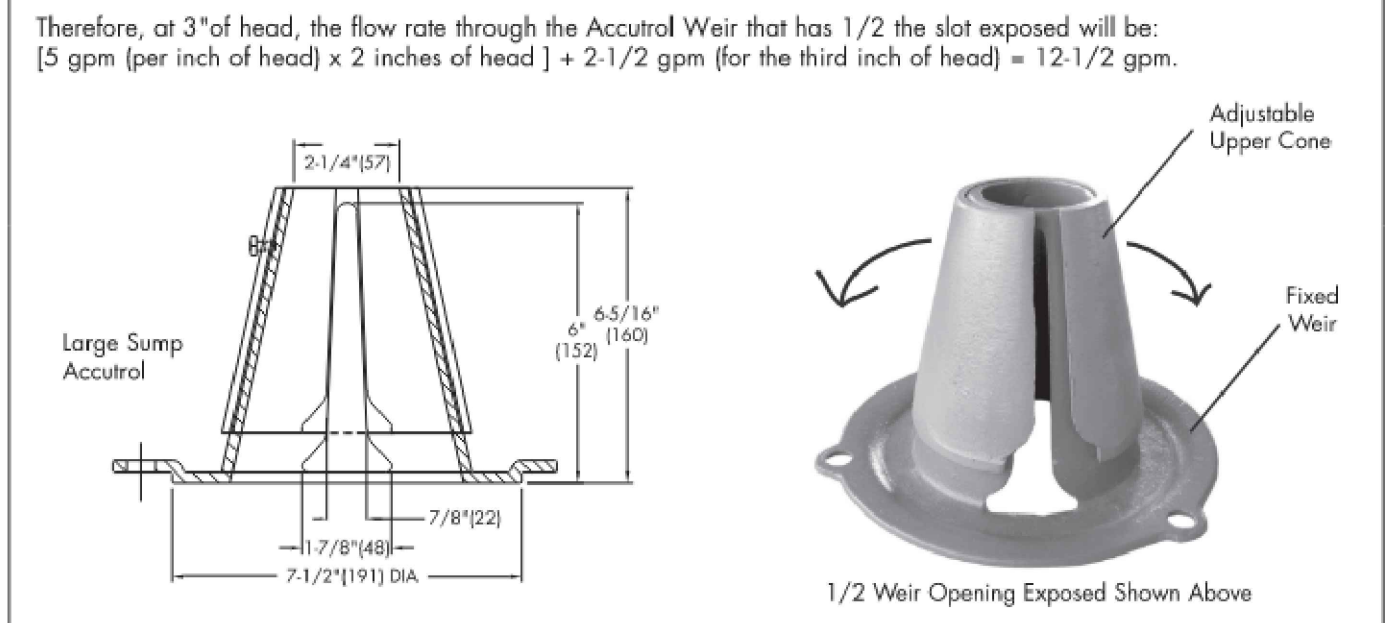


TABLE 1. Adjustable Accutrol Flow Rate Settings

Weir Opening Exposed	Flow Rate (gallons per minute)					
	1"	2"	3"	4"	5"	6"
Fully Exposed	5	10	15	20	25	30
3/4	5	10	13.75	17.5	21.25	25
1/2	5	10	12.5	15	17.5	20
1/4	5	10	11.25	12.5	13.75	15
Closed	5	5	5	5	5	5

Job Name: _____ Contractor: _____
 Job Location: _____ Contractor's P.O. No.: _____
 Engineer: _____ Representative: _____

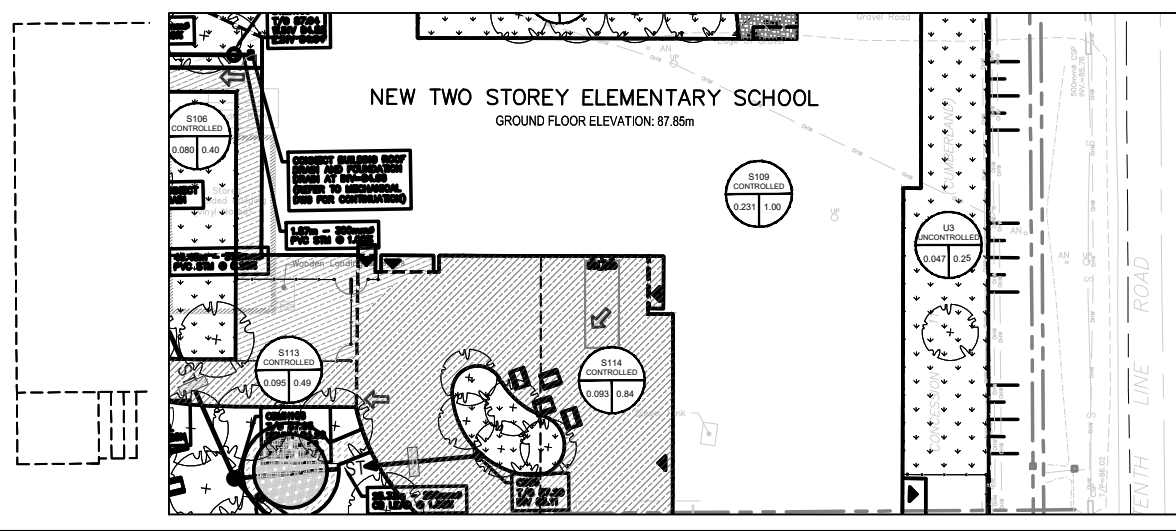
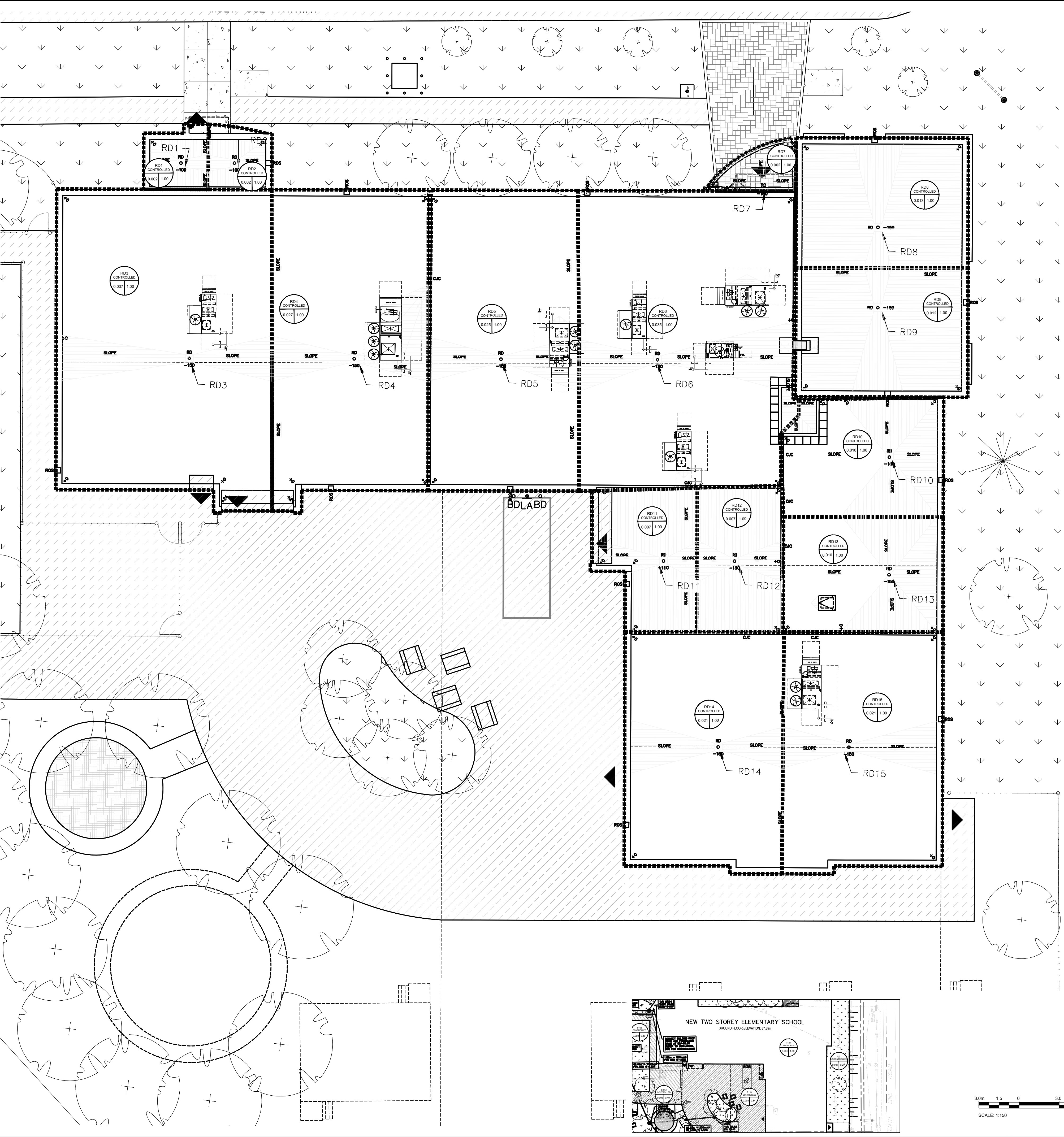
Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Services. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.

WATTS
A Watts Water Technologies Company

USA: Tel: (800) 338-2561 • Fax: (828) 248-3929 • Watts.com
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 Latin America: Tel: (82) 81-1001-8600 • Fax: (82) 81-8000-7091 • Watts.com

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Roof Drainage #	Roof Area m ²	Ponding Area m ²	Ponding Depth m	Ponding Volume m ³	Release Rate L/s
RD1	20.00	15.00	0.15	0.75	1.26
RD2	20.00	15.00	0.15	0.75	1.26
RD3	370.00	277.50	0.15	13.88	1.26
RD4	270.00	202.50	0.15	10.13	1.26
RD5	250.00	187.50	0.15	9.38	1.26
RD6	350.00	262.50	0.15	13.13	1.26
RD7	20.00	15.00	0.15	0.75	1.26
RD8	130.00	97.50	0.15	4.88	1.26
RD9	120.00	90.00	0.15	4.50	1.26
RD10	100.00	75.00	0.15	3.75	1.26
RD11	70.00	52.50	0.15	2.63	1.26
RD12	70.00	52.50	0.15	2.63	1.26
RD13	100.00	75.00	0.15	3.75	1.26
RD14	210.00	157.50	0.15	7.88	1.26
RD15	210.00	157.50	0.15	7.88	1.26
Total	2310.0	1732.5		86.63	18.90



EDWARD J CUHACI & ASSOCIATES ARCHITECTS Inc.
 171 Slater St, Suite 100, Ottawa, Ontario, K1P 5H7
 Fax: (613) 236-1944 Telephone: (613) 236-7135 E-mail: info@cuhaci.com



300-2611 QUEENSWAY DRIVE
 OTTAWA ONTARIO CANADA K2B 8K2
 TEL: 1-613-829-2800 | FAX: 1-613-829-8299 | WWW.WSPGROUP.COM

ÉCOLE ÉLÉMENTAIRE CATHOLIQUE AVALON III
 TENTH LINE ROAD
 OTTAWA, ON

CONSEIL DES ÉCOLES CATHOLIQUES DU CENTRE-EST
 4000, RUE LABELLE, OTTAWA, ON K1J 1A1



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BEARING NOTE: BEARINGS ARE GRID DERIVED FROM THE CAN-NET REAL TIME NETWORK GPS OBSERVATIONS. REFERENCED TO SPECIFIED CONTROL POINTS 0191960154 AND 019196434761. MTM ZONE 9 (P/30 WEST CONFORME) (NAD83) (ORIGINAL). BENCHMARK #1 N 5033845.03 E 384791.31 Z 28.40 BENCHMARK #2 N 5033885.03 E 384891.28 Z 27.89

NORTHING:

ISSUED FOR - REVISION

NO.	DATE	DESCRIPTION
7	2024-06-12	REVISED AS PER CITY COMMENT
6	2024-04-18	REVISED AS PER CITY COMMENT
5	2024-03-14	ISSUED FOR TENDER
4	2024-02-16	REVISED AS PER CITY COMMENT
3	2023-12-18	ISSUED FOR BUILDING PERMIT
2	2023-07-21	ISSUED FOR BUILDING PERMIT
1	2023-06-02	ISSUED FOR SPA

PROJECT NO: 221-12984-00 DATE: 2024-06-12

ORIGINAL SCALE: 1:300 IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.

DESIGNED BY: D.Y./M.S.
 DRAWN BY: S.T.R.
 CHECKED BY: D.Y.

DISCIPLINE: CIVIL

TITLE: ROOF DRAINAGE AREA PLAN

SHEET NUMBER: C07

ISSUE: REVISED AS PER CITY COMMENT

DATE OF: 2024-06-12

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D07-12-23-0094