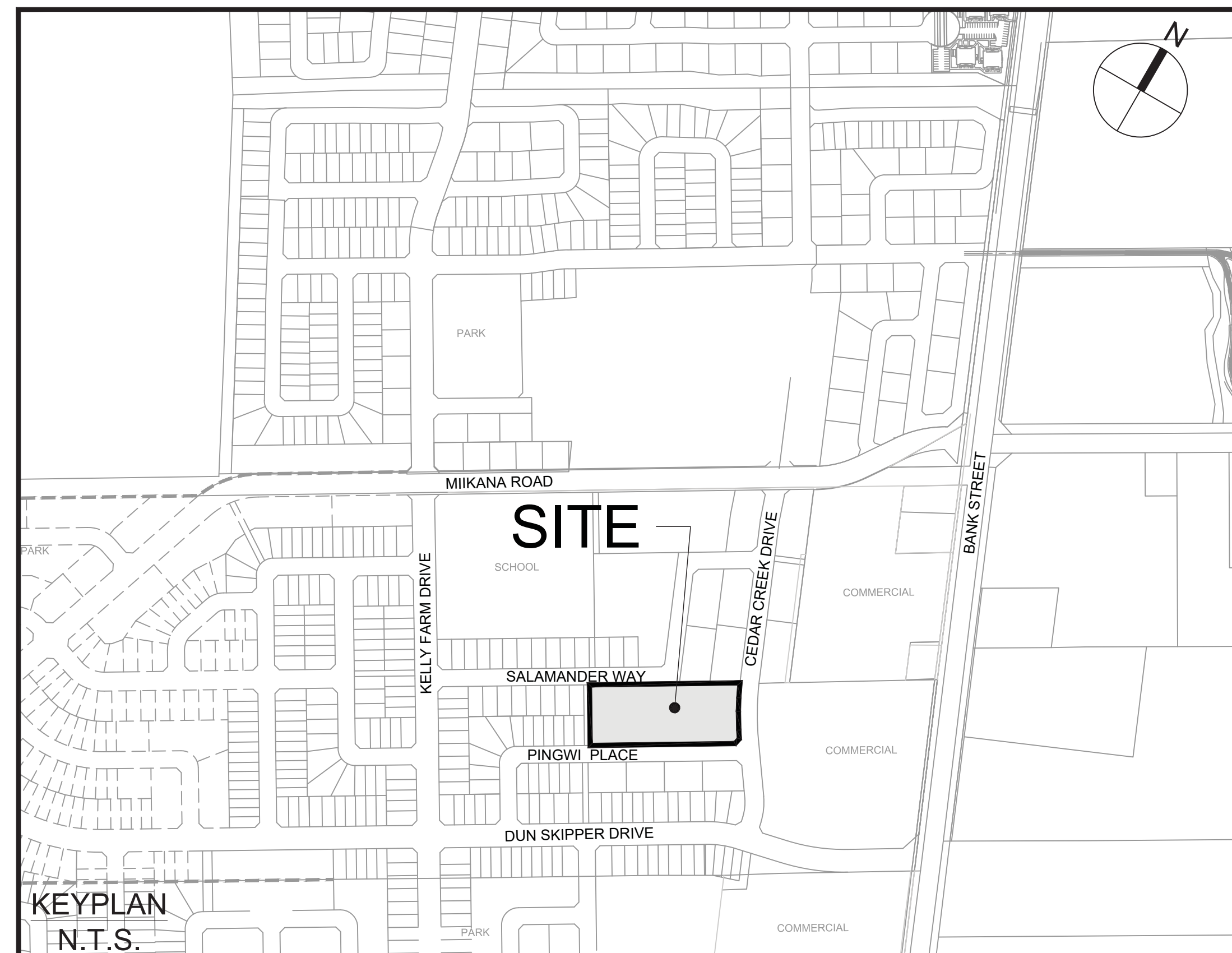


BLOCK 232



IBI GROUP
 400 – 333 Preston Street
 Ottawa ON K1S 5N4 Canada
 tel 613 225 1311 fax 613 225 9868
 ibigroup.com



Sheet List Table		
Sheet Number	Sheet Title	Sheet Description
-	COVER	
001	SITE SERVICING PLAN	
010	GENERAL NOTES, LEGEND AND CB DATA TABLE	
200	SITE GRADING PLAN	
400	SANITARY DRAINAGE AREA PLAN	
500	STORM DRAINAGE AREA PLAN	
600	SITE PONDING PLAN	
900	EROSION AND SEDIMENTATION CONTROL PLAN	

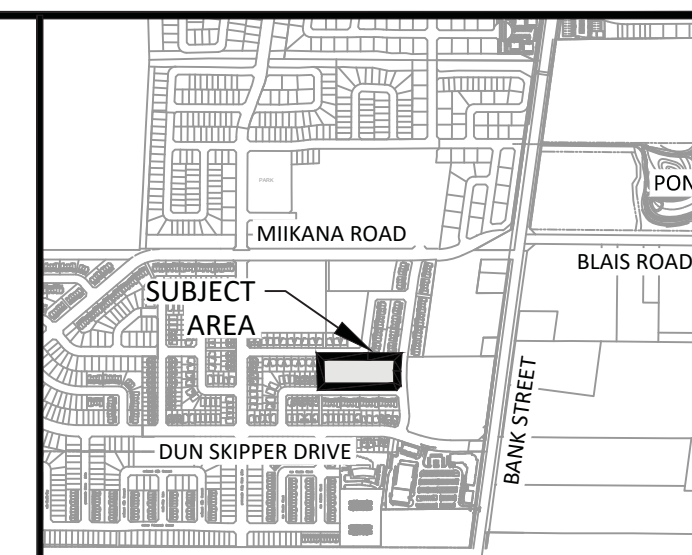


CITY OF OTTAWA

CONTRACT NO. 121793

STM STRUCTURE TABLE					
NAME	RIM ELEV.	INVERT IN AS-BUILT	INVERT OUT AS-BUILT	INVERT OUT AS-BUILT	DESCRIPTION
EXMH6117	99.46	SE93.050 SW94.435		NW93.010	2438mm x 2438mm RECTANGULAR METRIC
MH200	99.49	SE94.467 SE96.290 NW97.359		NE94.467	1200mm ϕ OPSD-701.010
MH201	100.26	SW96.505		NW96.445	1200mm ϕ OPSD-701.010
MH202	100.02	NW97.708 SW98.517 SE98.649		SE97.688	1200mm ϕ OPSD-701.010
MH203	100.38	SW96.930 NW97.603		NE96.835	1200mm ϕ OPSD-701.010
MH204	100.42	SW97.217		NE97.197	1200mm ϕ OPSD-701.010
MH205	100.67	NW97.939 SW98.030		NE97.804	1200mm ϕ OPSD-701.010
MH206	100.97	SW99.341 NW98.438 SE99.356		NE98.279	1200mm ϕ OPSD-701.010
MH207	100.34	NW97.999		SE97.979	1200mm ϕ OPSD-701.010
MH208	99.68	SW98.135		SE98.075	1200mm ϕ OPSD-701.010

SAN STRUCTURE TABLE					
NAME	RIM ELEV.	INVERT IN AS-BUILT	INVERT OUT AS-BUILT	INVERT OUT AS-BUILT	DESCRIPTION
EXMH6117A	99.58	SE93.580 SW95.720		NW93.520	1200mm ϕ OPSD-701.010
MH200A	99.80	NW95.834 SW95.774		NE95.774	1200mm ϕ OPSD-701.010
MH201A	100.20	NW97.910 SE98.560		SW96.948	1200mm ϕ OPSD-701.010
MH202A	100.36	SW96.647 NE96.661 SE97.591		NW96.601	1200mm ϕ OPSD-701.010
MH204A	100.38	SW97.000 SE98.380 NW97.666		NE96.980	1200mm ϕ OPSD-701.010
MH205A	100.68	SE97.172 NW97.212 W98.341		NE97.152	1200mm ϕ OPSD-701.010
MH206A	100.66	SE97.881 SW97.276		NW97.216	1200mm ϕ OPSD-701.010
MH207A	102.04	SE98.561		NW98.501	1200mm ϕ OPSD-701.010
MH208A	102.46	NW99.309		NE99.167	1200mm ϕ OPSD-701.010
MH209A	101.00	SE99.369 NW98.420		NE98.169	1200mm ϕ OPSD-701.010
MH210A	99.85	SW97.541		SE97.481	1200mm ϕ OPSD-701.010
MH211A	100.19	SE97.806		NE97.693	1200mm ϕ OPSD-701.010
MH212A	100.21	SW97.998		SE97.888	1200mm ϕ OPSD-701.010
MH214A	99.85	SE96.350		NE96.290	1200mm ϕ OPSD-701.010
MH215A	99.58	SW95.963		SE95.923	1200mm ϕ OPSD-701.010
MH216A	101.39	NW98.678		SW98.568	1200mm ϕ OPSD-701.010
MH217A	101.71	NE98.000		NW97.940	1200mm ϕ OPSD-701.010



KEY PLAN
N.T.S.

NOTES:
1. SEE DRAWING C-010, C-011 FOR ADDITIONAL DETAILS AND NOTES.
2. SITE BENCHMARK OBTAINED FROM LEGAL SURVEYOR ANNIS O'SULLIVAN VOLLEBERG LTD. TOP SPINDLE OF HYDRANT ON PINGWI PLACE. ELEV.=102.60m

14		
13		
12		
11		
10		
9		
8		
7		
6		
5		
4		
3		
2		
1	ISSUED FOR SPA	DGY 2019-12-18
No.	REVISIONS	By Date

DCR/PHOENIX GROUP OF COMPANIES

IBI GROUP
400 - 303 Preston Street
Ottawa ON K1S 5N4 Canada
tel 613 225 1311 fax 613 225 9888
ibigroup.com

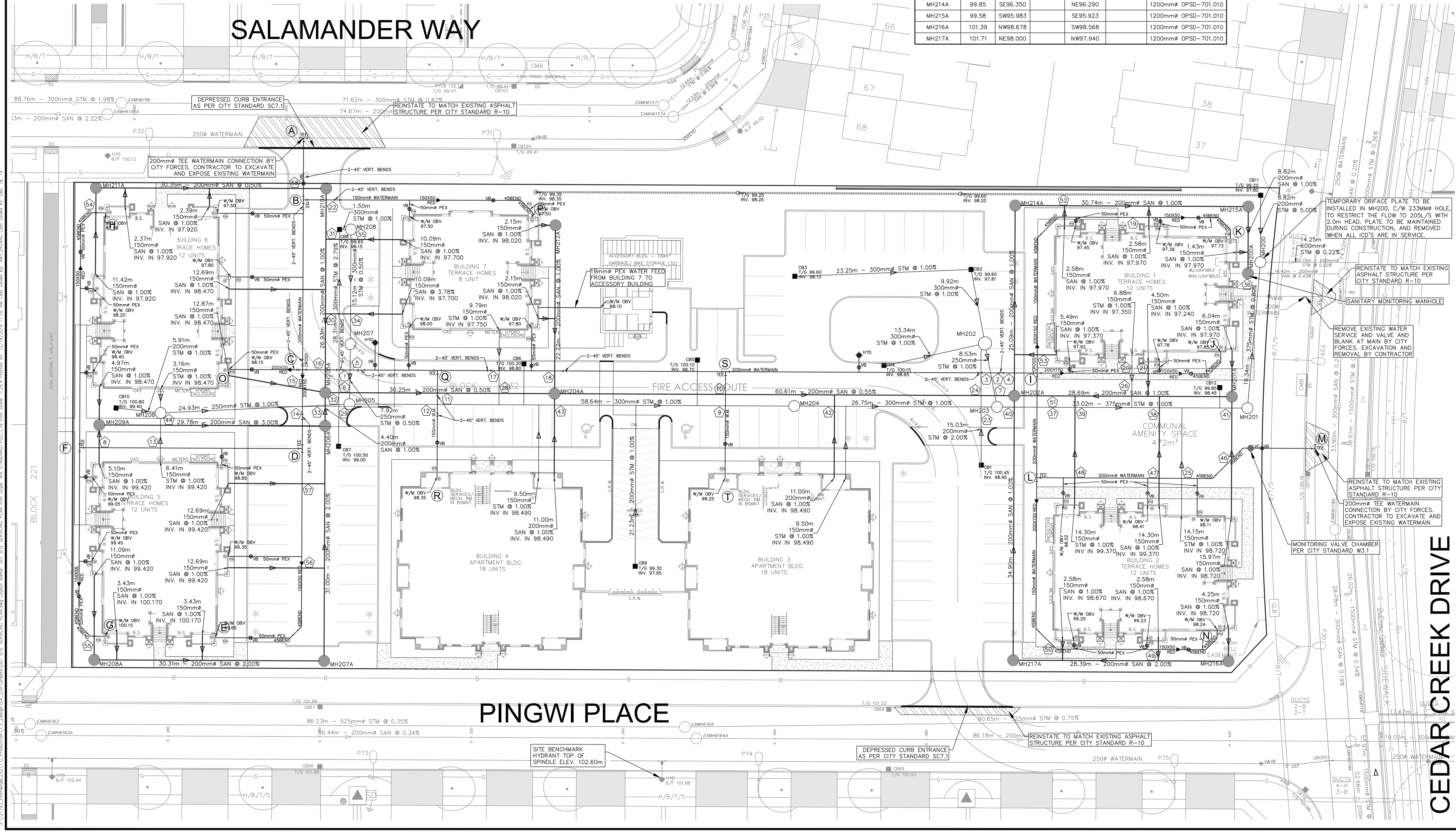
Project Title
BLOCK 232 PATHWAYS

Professional Engineer
D. Yannopoulos
2019XXXX
PROVINCE OF ONTARIO

Drawing Title
SITE SERVICING PLAN

Scale
1:250

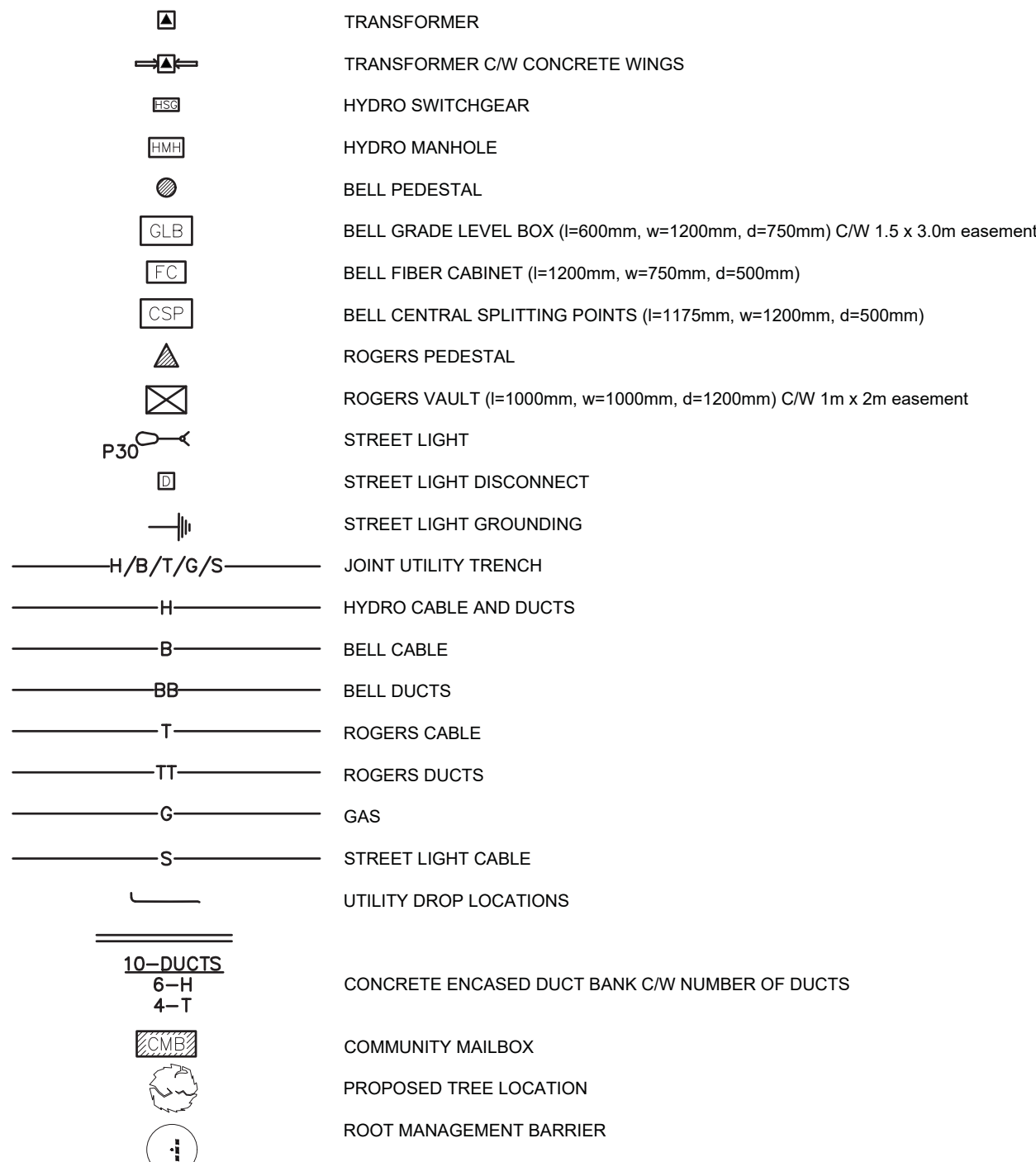
Design	RMWZ	Date	SEPT. 2019
Drawn	DPSWZ	Checked	DGY
Project No.	121793	Drawing No.	001



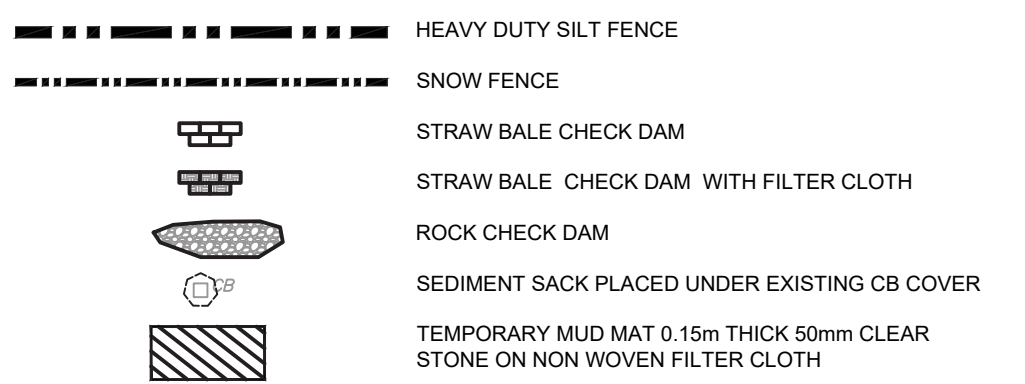
CEDAR CREEK DRIVE

J:\121793_Pathways\210_V0_Production\V3_1_Design\04_CAD\Sheet\001_Site Servicing Plan.dwg Plot Scale: 1:250.4 Printed At: 12/18/2019 11:05 AM. Plot Size: 11.00 x 17.00. Plot Date: 12/18/2019 11:05 AM. Plot Size: 11.00 x 17.00. Plot Date: 12/18/2019 11:05 AM. Plot Size: 11.00 x 17.00. Plot Date: 12/18/2019 11:05 AM.

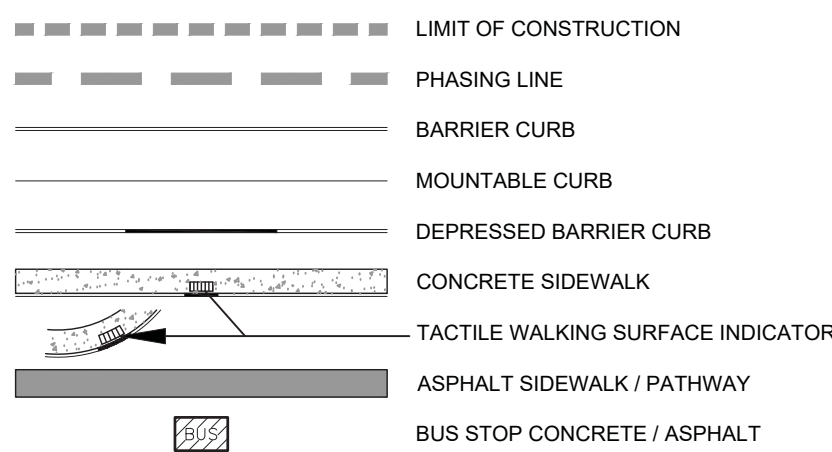
UTILITY LEGEND



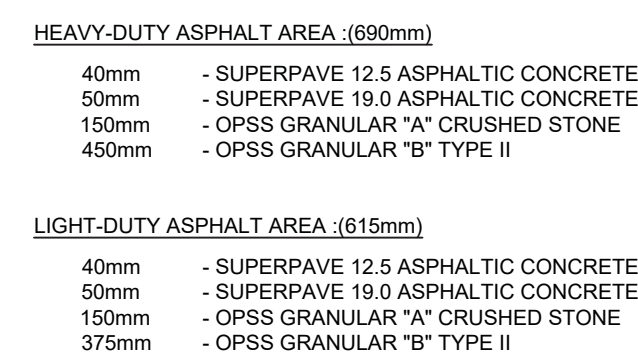
SEDIMENT EROSION LEGEND



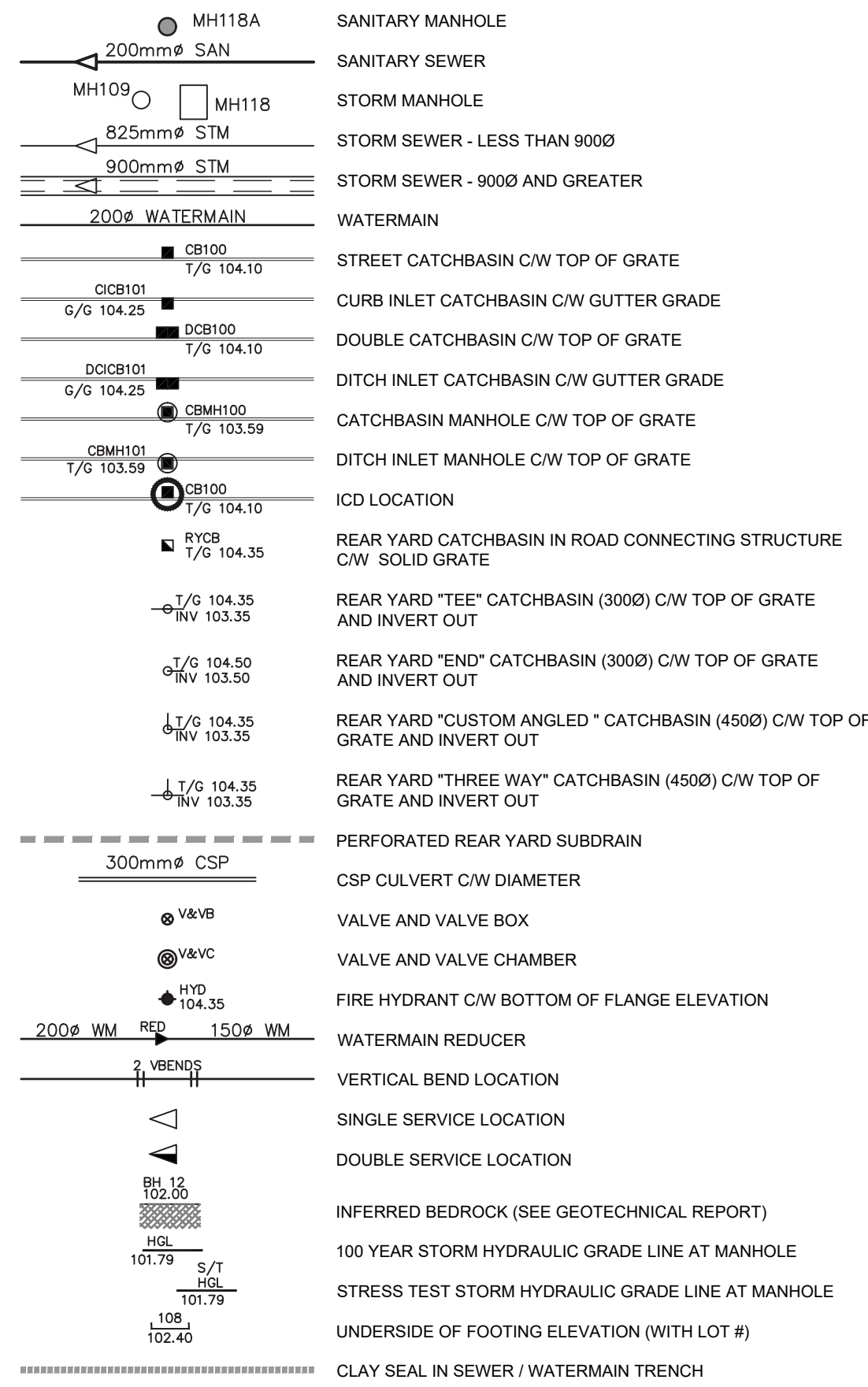
GENERAL LEGEND



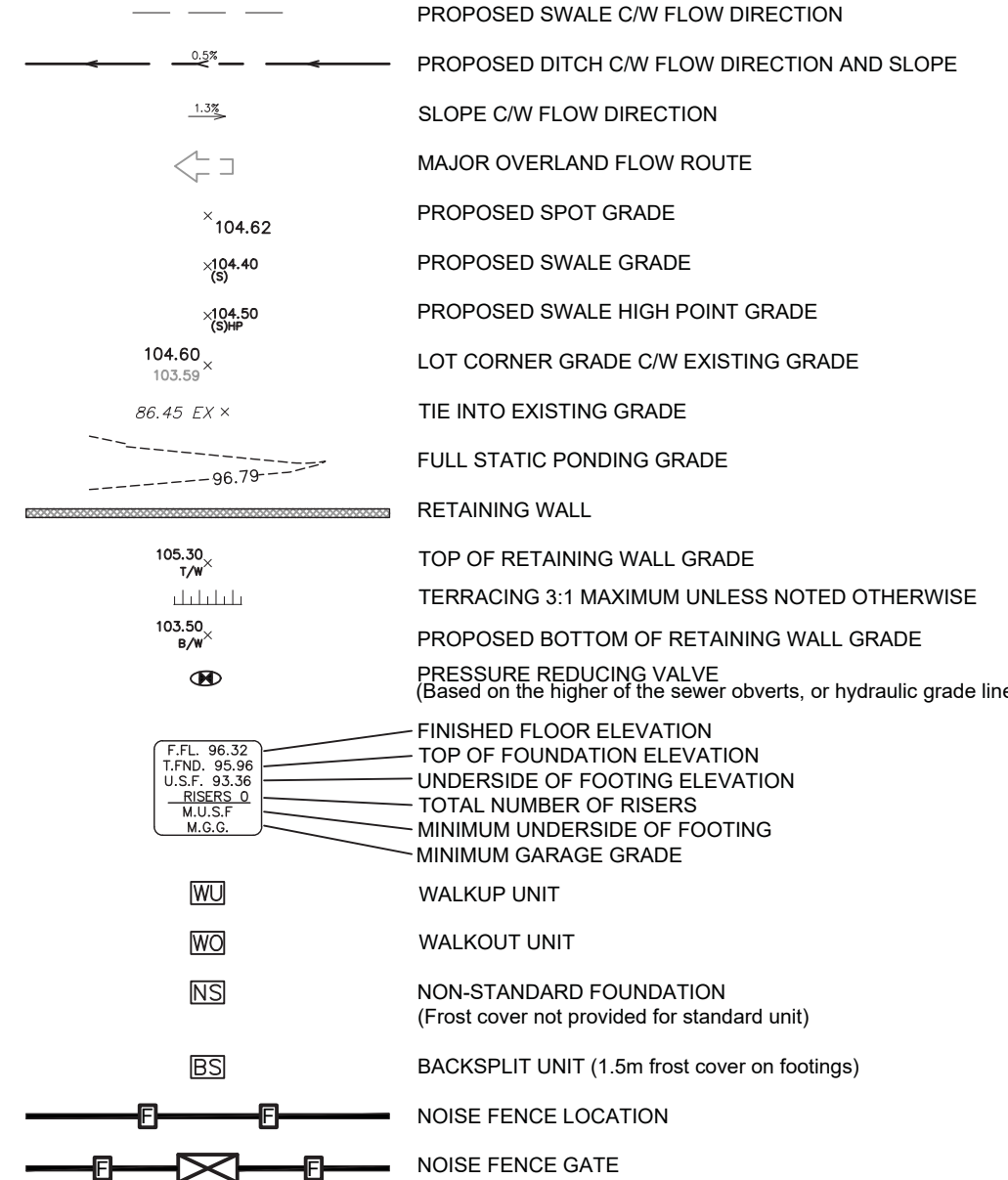
ROADWAY STRUCTURE:



SERVICING LEGEND

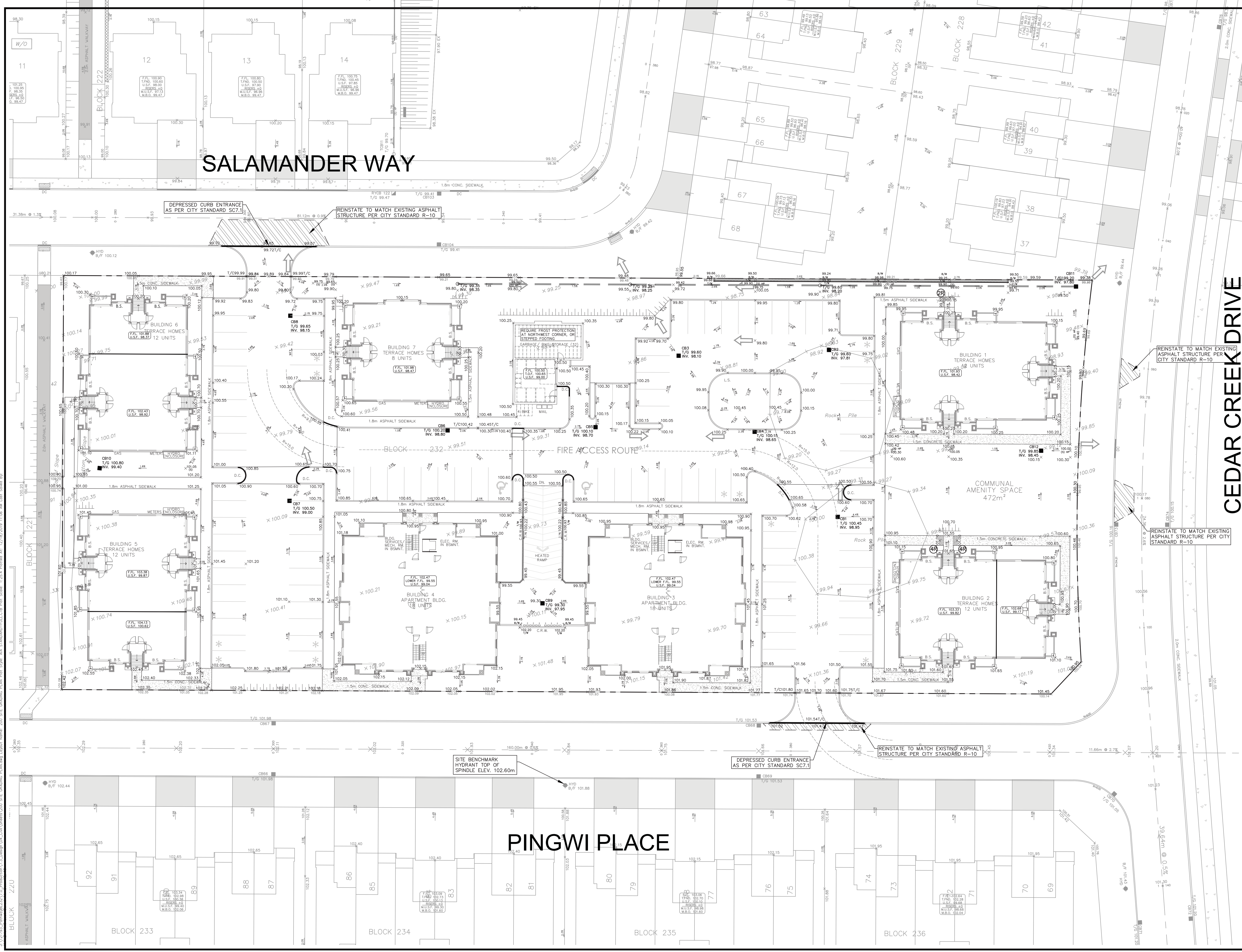


GRADING LEGEND



LOCATION	AREA (HA)	RELEASE RATE (L/S)	Head (M)	ICD
MH202	0.081 0.066 0.037 0.038	52	2.38	Custom IPEX MHF 127 mm Diameter
CB5	0.054	17	1.42	Custom IPEX MHF 82 mm Diameter
CB6	0.074	17	1.50	Custom IPEX MHF 81 mm Diameter
MH207	0.100 0.086	58	1.98	Custom IPEX MHF 139 mm Diameter
CB9	0.038	17	1.25	Full Capture, No ICD
CB10	0.029	10	1.45	Custom HYDROVEX 100 VHV-1 restricted at 10 l/s
CB11	0.119	27	1.51	Standard IPEX MHF 102 mm Diameter
CB12	0.084	7	1.55	Custom HYDROVEX 75 VHV-1 restricted at 7 l/s
TOTAL	0.806	205	-	

WATERMAIN SCHEDULE						
STATION	DESCRIPTION	FINISHED GRADE (m)	TOP OF COVER (m)	WATERMAIN (m)	AS-BUILT WATERMAIN	COMMENTS
A 0+000.00	CONNECT TO EX. 2500 W/M WITH 2500 x 2000 TEE	99.89	97.38	2.31		
0+004.77	2000 - 45° VERTICAL BEND	99.83	97.43	2.40		
0+005.80	2000 - 45° VERTICAL BEND	99.86	98.03	1.83		* INSULATE PER W22
0+006.00	2000 V&VB	99.87	98.03	1.84		* INSULATE PER W22
0+008.17	1500 x 2000 TEE	99.81	98.03	1.79		* INSULATE PER W22
0+008.87	2000 - 45° VERTICAL BEND	99.80	98.03	1.77		* INSULATE PER W22
0+009.47	2000 - 45° VERTICAL BEND	99.77	97.37	2.40		
0+010.00	500 SERVICE CONNECTION BUILDING 6	99.76	97.36	2.40		
0+018.39	500 SERVICE CONNECTION BUILDING 6	100.07	97.07	2.40		
0+029.19	2000 - 45° VERTICAL BEND	100.56	98.16	2.40		
0+029.84	2000 - 45° VERTICAL BEND	100.58	98.60	1.98		* INSULATE PER W22
0+030.59	2000 x 2000 CROSS	100.62	98.70	1.91		* INSULATE PER W22
0+031.47	2000 x 1500 REDUCER	100.65	98.77	1.88		* INSULATE PER W22
0+032.91	2000 - 45° VERTICAL BEND	100.70	98.98	1.71		* INSULATE PER W22
0+036.48	1500 - 45° VERTICAL BEND	100.79	98.65	2.14		* INSULATE PER W22
0+037.13	1500 - 45° VERTICAL BEND	100.76	98.36	2.40		
0+041.00	2000 x 1500 TEE	100.80	98.40	2.40		
0+055.25	500 SERVICE CONNECTION BUILDING 5	101.29	98.89	2.40		
0+056.12	1500 x 500 REDUCER	101.33	98.93	2.40		
0+064.50	500 - 45° BEND	101.66	99.26	2.40		
0+066.62	500 - 45° BEND	101.78	99.38	2.40		
0+071.83	500 V&VB	102.01	99.61	2.40		
0+078.47	500 SERVICE CONNECTION BUILDING 5	102.33	99.93	2.40		
D 0+000.00	1500 x 1500 TEE	100.80	98.40	2.40		
0+010.60	500 SERVICE CONNECTION BUILDING 5	101.34	98.94	2.40		
0+017.20	-	101.29	98.98	2.42		
0+020.40	-	101.27	98.98	2.42		
F 0+029.35	1500 x 1500 TEE	101.18	98.78	2.40		
F 0+000.00	1500 x 1500 TEE	101.18	98.78	2.40		
0+003.88	500 SERVICE CONNECTION BUILDING 5	101.26	98.96	2.40		
0+015.00	500 SERVICE CONNECTION BUILDING 5	101.81	99.41	2.40		
0+018.00	1500 x 500 REDUCER	101.94	99.54	2.40		
0+020.13	500 V&VB	102.03	99.63	2.40		
0+023.37	500 - 45° BEND	102.16	99.76	2.40		
0+025.49	500 - 45° BEND	102.35	99.95	2.40		
G 0+027.47	500 SERVICE CONNECTION BUILDING 5	102.46	100.06	2.40		
F 0+000.00	1500 x 1500 TEE	101.18	98.78	2.40		
0+009.88	500 SERVICE CONNECTION BUILDING 6	100.84	98.44	2.40		
0+021.00	500 SERVICE CONNECTION BUILDING 6	100.37	98.17	2.40		
0+023.66	1500 x 500 REDUCER	100.50	98.10	2.40		
0+025.82	500 V&VB	100.45	98.05	2.40		
0+029.50	500 - 45° BEND	100.36	98.15	2.21		* INSULATE PER W22
0+051.62	500 - 45° BEND	100.33	98.30	2.03		* INSULATE PER W22
H 0+033.44	500 SERVICE CONNECTION BUILDING 6	100.33	98.30	2.03		* INSULATE PER W22
C 0+000.00	2000 x 2000 CROSS	100.62	98.70	1.91		* INSULATE PER W22
0+004.50	2000 - 45° VERTICAL BEND	100.52	98.31	2.22		* INSULATE PER W22
0+005.30	2000 - 45° VERTICAL BEND	100.51	97.40	3.10		
0+007.35	2000 - 45° VERTICAL BEND	100.46	97.44	3.02		
0+008.15	2000 - 45° VERTICAL BEND	100.45	98.05	2.40		
0+009.55	2000 x 1500 HYDRANT TEE	100.45	98.05	2.40		
0+014.00	500 SERVICE CONNECTION BUILDING 7	100.41	98.01	2.40		
0+017.80	1500 SERVICE CONNECTION BUILDING 4	100.35	97.95	2.40		
0+024.36	2000 - 45° VERTICAL BEND	100.29	97.89	2.40		
0+024.84	2000 - 45° VERTICAL BEND	100.29	98.31	1.98		* INSULATE PER W22
0+030.18	500 SERVICE CONNECTION BUILDING 7	100.25	98.34	1.91		* INSULATE PER W22
0+034.35	2000 - 45° VERTICAL BEND	100.34	98.37	1.98		* INSULATE PER W22
0+034.83	2000 - 45° VERTICAL BEND	100.35	97.95	2.40		
0+055.78	1500 SERVICE CONNECTION BUILDING 3	100.25	97.85	2.40		
0+073.38	2000 x 1500 HYDRANT TEE	100.28	97.88	2.40		
0+089.03	2000 - 45° VERTICAL BEND	100.22	97.82	2.40		
0+089.59	2000 - 45° VERTICAL BEND	100.21	98.32	1.89		* INSULATE PER W22
0+091.84	2000 - 45° VERTICAL BEND	100.20	98.32	1.88		* INSULATE PER W22
0+092.40	2000 - 45° VERTICAL BEND	100.22	97.82	2.40		
I 0+096.86	2000 x 2000 CROSS	100.45	98.05	2.40		
0+100.60	2000 x 1500 REDUCER	100.33	97.93	2.40		
0+101.13	500 SERVICE CONNECTION BUILDING 1	100.32	97.92	2.40		
0+107.35	-	100.18	97.94	2.24		* INSULATE PER W22
0+110.42	-	100.18	97.94	2.24		* INSULATE PER W22
0+113.00	500 SERVICE CONNECTION BUILDING 1	100.18	97.78	2.40		
0+115.74	1500 x 500 REDUCER	100.18	97.78	2.40		
0+117.15	500 V&VB	100.18	97.78	2.40		
0+119.55	500 - 45° BEND	100.18	97.78	2.40		
0+121.07	500 - 45° BEND	100.23	97.83	2.40		
J 0+123.04	500 SERVICE CONNECTION BUILDING 1	100.25	97.85	2.40		
I 0+000.00	2000 x 2000 CROSS	100.43	98.03	2.40		
0+003.36	2000 x 1500 REDUCER	100.36	97.96	2.40		
0+017.80	1500 - 45° BEND	99.94	97.54	2.40		
0+021.71	1500 - 45° BEND	99.89	97.29	2.60		
0+024.03	500 SERVICE CONNECTION BUILDING 1	99.89	97.45	2.44		
0+035.18	500 SERVICE CONNECTION BUILDING 1	99.89	97.39	2.49		
0+038.18	1500 x 500 REDUCER	99.88	97.48	2.40		
0+040.20	500 V&VB	99.90	97.50	2.40		
0+042.89	500 - 45° BEND	99.88	97.46	2.40		
0+045.02	500 - 45° BEND	100.03	97.03	2.40		
K 0+046.27	500 SERVICE CONNECTION BUILDING 1	100.13	97.73	2.40		
L 0+000.00	2000 x 2000 TEE	100.91	98.51	2.40		
0+003.51	500 SERVICE CONNECTION BUILDING 2	100.92	98.52	2.40		
0+014.64	500 SERVICE CONNECTION BUILDING 2	100.81	98.41	2.40		
0+021.18	500 SERVICE CONNECTION BUILDING 2	100.69	98.11	2.58		
0+023.18	2000 - 45° BEND	100.65	98.25	2.40		
0+028.87	2000 - 45° BEND	100.40	98.00	2.40		
0+029.87	2000 MONITORING VALVE CHAMBER	100.38	97.98	2.40		
0+031.37	2000 V&VB	100.33	97.93	2.40		
M 0+038.37	CONNECT TO EXISTING WITH 2500 x 2000 TEE	100.10	97.79	2.31		
I 0+000.00	2000 x 2000 CROSS	100.43	98.03	2.40		
L 0+013.81	2000 x 2000 TEE	100.91	98.51	2.40		
0+016.94	2000 x 1500 REDUCER	101.12	98.72	2.40		
0+033.71	1500 - 45° BEND	101.67	99.27	2.40		
0+037.52	1500 - 45° BEND	101.69	99.29	2.40		
0+038.84	500 SERVICE CONNECTION BUILDING 2	101.65	98.25	2.40		
0+049.46	500 SERVICE CONNECTION BUILDING 2	101.62	98.23	2.39		* INSULATE PER W22
0+053.62	1500 x 500 REDUCER	101.61	98.22	2.39		* INSULATE PER W22
0+054.95	500 V&VB	101.58	98.18	2.40		
0+057.21	500 - 45° BEND	101.45	98.05	2.40		
0+059.33	500 - 45° BEND	101.29	98.89	2.40		
N 0+060.58	500 SERVICE CONNECTION BUILDING 1	101.24	98.84	2.40		
C 0+000.00	2000 x 2000 CROSS	100.62	98.70	1.91		* INSULATE PER W22
0+000.75	2000 - 45° VERTICAL BEND	100.63	98.70	1.93		* INSULATE PER W22
0+001.40	2000 - 45° VERTICAL BEND	100.64	98.24	2.40		
0+001.72	2000 x 500 REDUCER	100.65	98.25	2.40		
0+006.71	500 V&VB	100.77	98.37	2.40		
O 0+009.89	500 SERVICE CONNECTION BUILDING 5	100.99	98.59	2.40		
B 0+000.00	1500 x 1500 TEE	99.81	98.03	1.79		* INSULATE PER W22
0+004.10	1500 - 45° VERTICAL BEND	99.81	98.07	1.74		* INSULATE PER W22
0+004.79	1500 - 45° VERTICAL BEND	99.81	97.41	2.40		
0+014.00	500 SERVICE CONNECTION BUILDING 7	99.82	97.52	2.40		
0+017.76	1500 x 500 REDUCER	99.89	97.49	2.40		
0+025.03	500 V&VB	99.85	97.45	2.40		
0+028.68	500 - 45° BEND	99.83	97.43	2.40		
0+030.80	SAVE	100.10	97.70	2.40		
P 0+031.48	500 SERVICE CONNECTION BUILDING 7	100.20	97.80	2.40		
Q 0+000.00	2000 x 1500 TEE	100.35	97.95	2.40		
0+002.95	1500 - 45° VERTICAL BEND	100.46	98.06	2.40		
0+003.35	1500 - 45° VERTICAL BEND	100.47	98.46	2.02		* INSULATE PER W22
0+005.65	1500 - 45° VERTICAL BEND	100.59	98.46	2.13		* INSULATE PER W22
0+006.05	1500 - 45° VERTICAL BEND	100.61	98.21	2.40		
0+009.53	1500 V&VB	100.74	98.34	2.40		



SALAMANDER WAY

PINGWI PLACE

CEDAR CREEK DRIVE

KEY PLAN
N.T.S.

NOTES:
1. SEE DRAWING C-010, C-011 FOR ADDITIONAL DETAILS AND NOTES.
2. SITE BENCHMARK OBTAINED FROM LEGAL SURVEYOR ANNIS O'SULLIVAN VOLLEBERG LTD. TOP SPINDLE OF HYDRANT ON PINGWI PLACE. ELEV.=102.60m

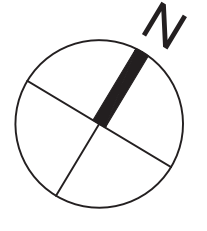
14		
13		
12		
11		
10		
9		
8		
7		
6		
5		
4		
3		
2		
1	ISSUED FOR SPA	DGY 2019-12-18
No.	REVISIONS	By Date

DCR/PHOENIX GROUP OF COMPANIES

IBI IBI GROUP
400 - 333 Preston Street
Ottawa ON K1S 5N4 Canada
tel 613 225 1311 fax 613 225 9868
ibigroup.com

Project Title
**BLOCK 232
PATHWAYS**

REGISTERED PROFESSIONAL ENGINEER
D. Yannopoulos
2019XXXX
PROVINCE OF ONTARIO



Drawing Title
SITE GRADING PLAN

Scale
1:250

Design RMWZ Date SEPT. 2019

Drawn DPS/WZ Checked DGY

Project No. 121793 Drawing No. 200

J:\17193_Pathways\217_V0_Production\FULLCTB Post-Stroke: 1:25.4 Plotted At: 12/18/2019 11:06 AM Lot: Sheet 01

D07-XX-XX-XXX

