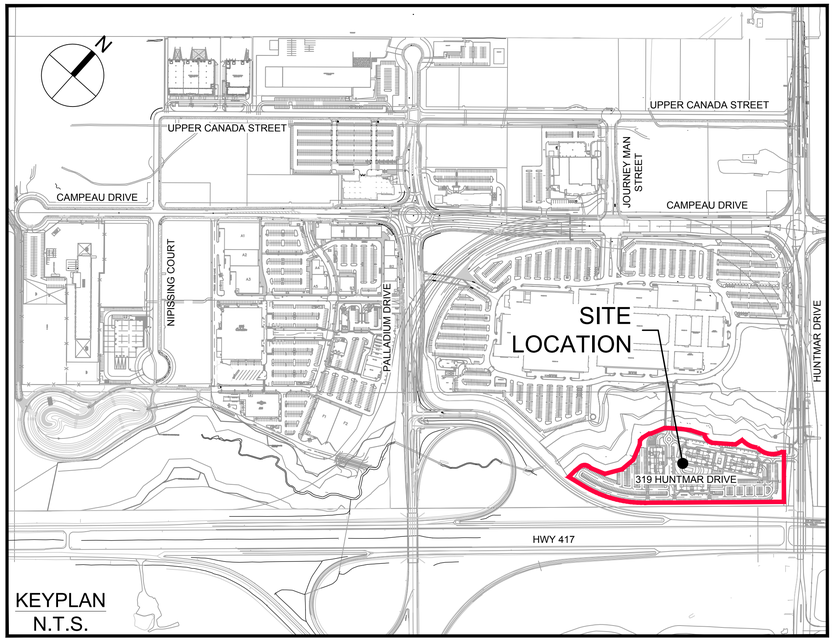
THE BURROUGHS KANATA
319 HUNTMAR DRIVE

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



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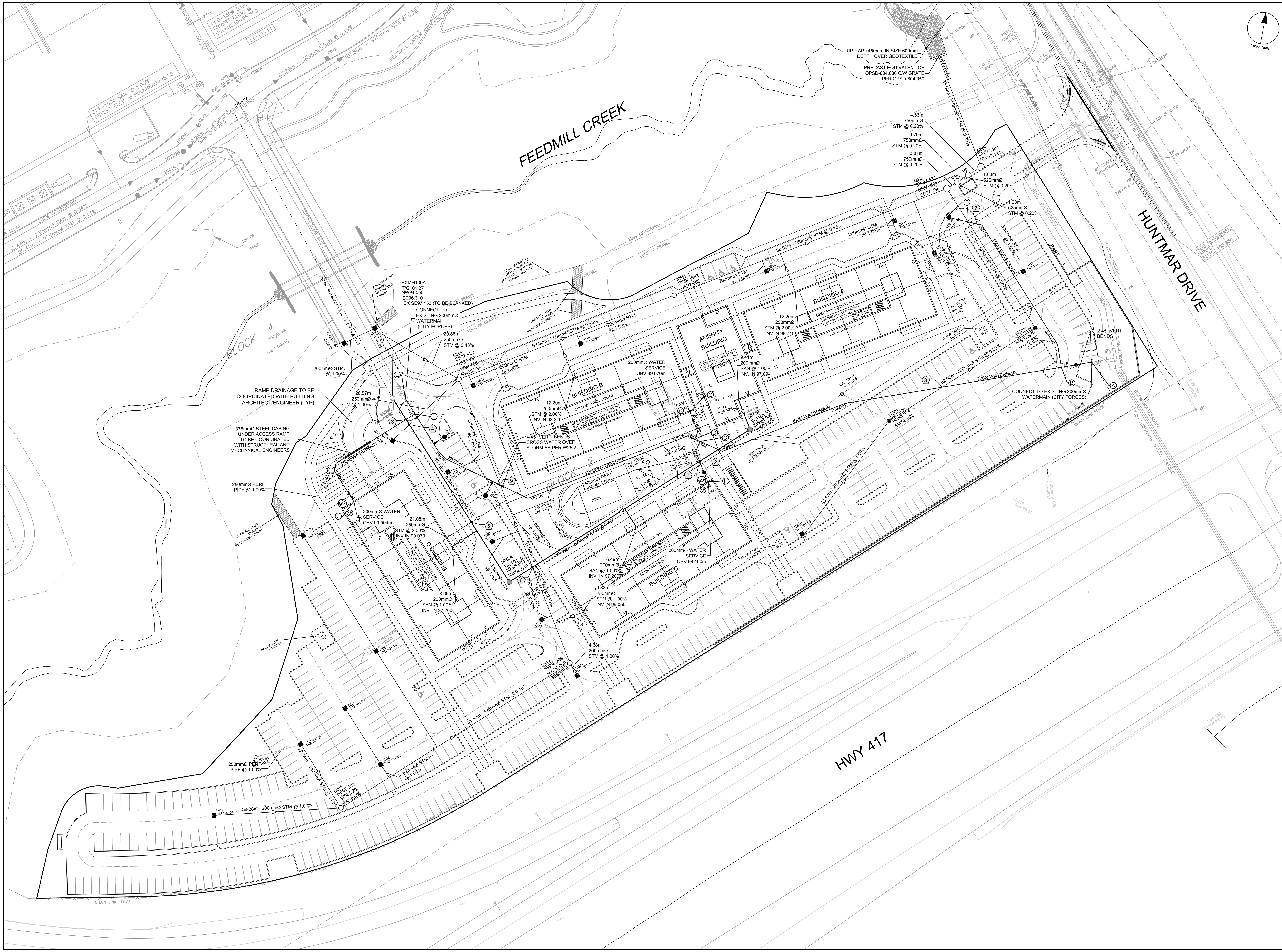
CLIENT/PROPERTY OWNER:
THE BURROUGHS KANATA LP

CONTRACT NO. 127255

ISSUED FOR SPA 2021-05-14
CITY FILE No. D07-#### CITY PLAN No.####



CLIENT

THE BURROUGHS KANATA LP

6783 WELLINGTON ROAD
RR #22 CAMBRIDGE
ON, N3C 2V4

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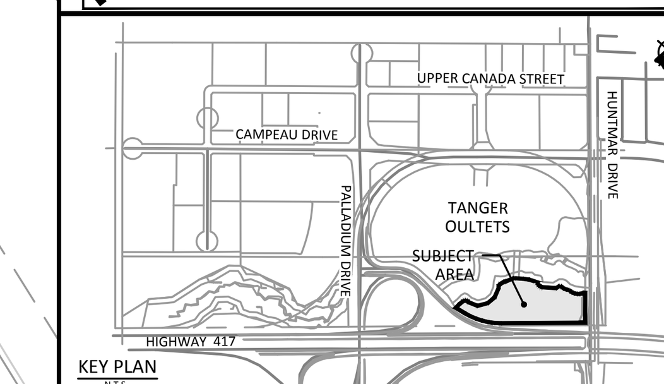
ISSUES

No.	DESCRIPTION	DATE
1	ISSUED FOR CLIENT REVIEW	2021-04-16
2	ISSUED FOR SPA	2021-05-14

NOT FOR CONSTRUCTION

SEE 010, FOR NOTES, LEGEND, CB TABLE, AND DETAILS



KEY PLAN

CONSULTANTS

1:500 0 5 15 25m

SEAL

LICENSED PROFESSIONAL ENGINEER
D. G. Yannoulopoulos
20201/05/14
PROVINCE OF ONTARIO

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

PROJECT

THE BURROUGHS KANATA

319 HUNTMAR DRIVE

PROJECT NO:
127255

DRAWN BY:	CHECKED BY:
D.P.S.	**J.B.**
PROJECT MGR:	APPROVED BY:
D.G.Y.	**D.G.Y.**

SHEET TITLE

GENERAL PLAN OF SERVICES

SHEET NUMBER: C-001
ISSUE: 2

SCALE CHECK 1 in 10mm

CITY FILE No. D07-xx-xx-xxxx

File Location: W:\127255_8555Campeau\7.0_Production\7.03_Design\04_Civil\Sheets\C-001.dwg Last Saved: May 11, 2021, by dsiurna Plotted: Monday, May 17, 2021 2:44:24 PM by Don Siurna

CITY PLAN No. xxxxx

UTILITY LEGEND

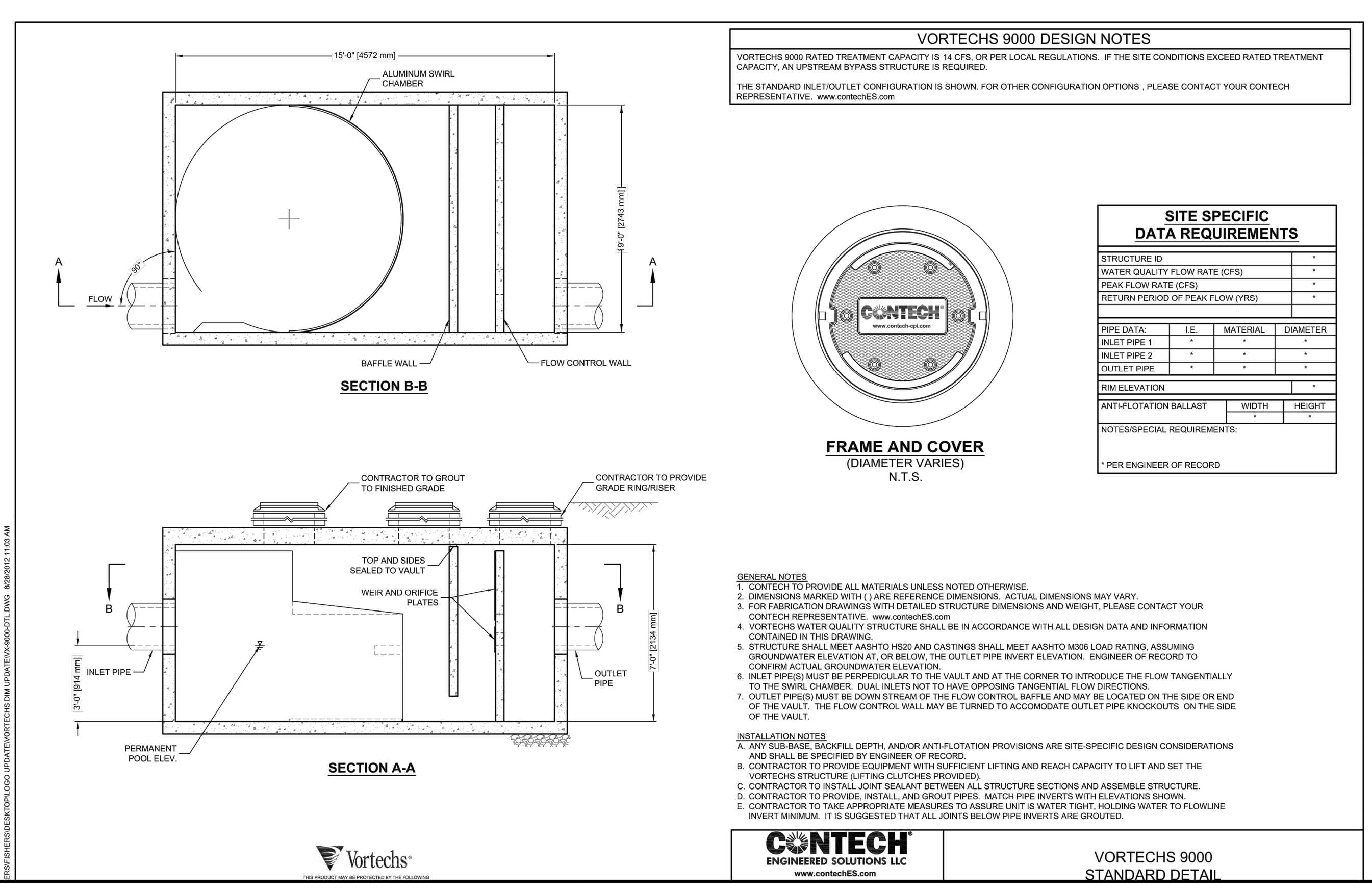
- TRANSFORMER
- TRANSFORMER C/W CONCRETE WINGS
- HSG — HYDRO SWITCHGEAR
- HMH — HYDRO MANHOLE
- BELL PEDESTAL
- GLB — BELL GRADE LEVEL BOX (l=600mm, w=1200mm, d=750mm) C/W 1.5 x 3.0m easement
- FC — BELL FIBER CABINET (l=1200mm, w=750mm, d=500mm)
- CSP — BELL CENTRAL SPLITTING POINTS (l=1175mm, w=1200mm, d=500mm)
- ROGERS PEDESTAL
- ROGERS VAULT (l=1000mm, w=1000mm, d=1200mm) C/W 1m x 2m easement
- P30 — STREET LIGHT
- D — STREET LIGHT DISCONNECT
- STREET LIGHT GROUNDING
- H/B/T/G/S — JOINT UTILITY TRENCH
- H — HYDRO CABLE AND DUCTS
- B — BELL CABLE
- BB — BELL DUCTS
- T — ROGERS CABLE
- TT — ROGERS DUCTS
- G — GAS
- S — STREET LIGHT CABLE
- UTILITY DROP LOCATIONS
- 10-DUCTS 6-H 4-T — CONCRETE ENCASED DUCT BANK C/W NUMBER OF DUCTS
- CMB — COMMUNITY MAILBOX
- PROPOSED TREE LOCATION
- ROOT MANAGEMENT BARRIER

SEDIMENT EROSION LEGEND

- HEAVY DUTY SILT FENCE
- SNOW FENCE
- STRAW BALE CHECK DAM
- STRAW BALE CHECK DAM WITH FILTER CLOTH
- ROCK CHECK DAM
- CB — SEDIMENT SACK PLACED UNDER EXISTING CB COVER
- TEMPORARY MUD MAT 0.15m THICK 50mm CLEAR STONE ON NON WOVEN FILTER CLOTH

GENERAL LEGEND

- LIMIT OF CONSTRUCTION
- PHASING LINE
- BARRIER CURB
- MOUNTABLE CURB
- DEPRESSED BARRIER CURB
- CONCRETE SIDEWALK
- TACTILE WALKING SURFACE INDICATOR
- ASPHALT SIDEWALK / PATHWAY
- BUS — BUS STOP CONCRETE / ASPHALT



VORTECHS 9000 DESIGN NOTES
VORTECHS 9000 RATED TREATMENT CAPACITY IS 14 CFS, OR PER LOCAL REGULATIONS. IF THE SITE CONDITIONS EXCEED RATED TREATMENT CAPACITY, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.
THE STANDARD INLET/OUTLET CONFIGURATION IS SHOWN. FOR OTHER CONFIGURATION OPTIONS , PLEASE CONTACT YOUR CONTECH REPRESENTATIVE. www.contechES.com
15'-0" [4572 mm]
ALUMINUM SWIRL CHAMBER
9'-0" [2743 mm]
FLOW
BAFFLE WALL
FLOW CONTROL WALL
SECTION B-B
CONTECH
FRAME AND COVER
(DIAMETER VARIES)
N.T.S.
SITE SPECIFIC DATA REQUIREMENTS
STRUCTURE ID
WATER QUALITY FLOW RATE (CFS)
PEAK FLOW RATE (CFS)
RETURN PERIOD OF PEAK FLOW (YRS)
PIPE DATA: I.E. MATERIAL DIAMETER
INLET PIPE 1
INLET PIPE 2
OUTLET PIPE
RIM ELEVATION
ANTI-FLOTATION BALLAST WIDTH HEIGHT
NOTES/SPECIAL REQUIREMENTS:
* PER ENGINEER OF RECORD
CONTRACTOR TO GROUT TO FINISHED GRADE
CONTRACTOR TO PROVIDE GRADE RING/RISER
TOP AND SIDES SEALED TO VAULT
WEIR AND ORIFICE PLATES
INLET PIPE
OUTLET PIPE
7'-0" [2134 mm]
3'-0" [914 mm]
PERMANENT POOL ELEV.
SECTION A-A
GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH REPRESENTATIVE. www.contechES.com
4. VORTECHS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET AASHTO M306 LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
6. INLET PIPE(S) MUST BE PERPEDICULAR TO THE VAULT AND AT THE CORNER TO INTRODUCE THE FLOW TANGENTIALLY TO THE SWIRL CHAMBER. DUAL INLETS NOT TO HAVE OPPOSING TANGENTIAL FLOW DIRECTIONS.
7. OUTLET PIPE(S) MUST BE DOWN STREAM OF THE FLOW CONTROL BAFFLE AND MAY BE LOCATED ON THE SIDE OR END OF THE VAULT. THE FLOW CONTROL WALL MAY BE TURNED TO ACCOMODATE OUTLET PIPE KNOCKOUTS ON THE SIDE OF THE VAULT.
INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE VORTECHS STRUCTURE (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.
Vortechs
CONTECH ENGINEERED SOLUTIONS LLC www.contechES.com
VORTECHS 9000 STANDARD DETAIL

SERVICING LEGEND

- MH118A — SANITARY MANHOLE
- 200mmØ SAN — SANITARY SEWER
- MH109 / MH118 — STORM MANHOLE
- 825mmØ STM — STORM SEWER - LESS THAN 900Ø
- 900mmØ STM — STORM SEWER - 900Ø AND GREATER
- 200Ø WATERMAIN — WATERMAIN
- CB100 T/G 104.10 — STREET CATCHBASIN C/W TOP OF GRATE
- CICB101 G/G 104.25 — CURB INLET CATCHBASIN C/W GUTTER GRADE
- DCB100 T/G 104.10 — DOUBLE CATCHBASIN C/W TOP OF GRATE
- DCICB101 G/G 104.25 — DITCH INLET CATCHBASIN C/W GUTTER GRADE
- CBMH100 T/G 103.59 — CATCHBASIN MANHOLE C/W TOP OF GRATE
- CBMH101 T/G 103.59 — DITCH INLET MANHOLE C/W TOP OF GRATE
- CB100 T/G 104.10 — ICD LOCATION
- RYCB T/G 104.35 — REAR YARD CATCHBASIN IN ROAD CONNECTING STRUCTURE C/W SOLID GRATE
- T/G 104.35 INV 103.35 — REAR YARD "TEE" CATCHBASIN (300Ø) C/W TOP OF GRATE AND INVERT OUT
- T/G 104.50 INV 103.50 — REAR YARD "END" CATCHBASIN (300Ø) C/W TOP OF GRATE AND INVERT OUT
- T/G 104.35 INV 103.35 — REAR YARD "CUSTOM ANGLED " CATCHBASIN (450Ø) C/W TOP OF GRATE AND INVERT OUT
- T/G 104.35 INV 103.35 — REAR YARD "THREE WAY" CATCHBASIN (450Ø) C/W TOP OF GRATE AND INVERT OUT
- PERFORATED REAR YARD SUBDRAIN
- 300mmØ CSP — CSP CULVERT C/W DIAMETER
- V&VB — VALVE AND VALVE BOX
- V&VC — VALVE AND VALVE CHAMBER
- HYD 104.35 — FIRE HYDRANT C/W BOTTOM OF FLANGE ELEVATION
- 200Ø WM RED 150Ø WM — WATERMAIN REDUCER
- 2 VBENDS — VERTICAL BEND LOCATION
- SINGLE SERVICE LOCATION
- DOUBLE SERVICE LOCATION
- BH 12 102.00 — INFERRED BEDROCK (SEE GEOTECHNICAL REPORT)
- HGL 101.79 — 100 YEAR STORM HYDRAULIC GRADE LINE AT MANHOLE
- S/T HGL 101.79 — STRESS TEST STORM HYDRAULIC GRADE LINE AT MANHOLE
- 108 102.40 — UNDERSIDE OF FOOTING ELEVATION (WITH LOT #)
- CLAY SEAL IN SEWER / WATERMAIN TRENCH

GRADING LEGEND

- PROPOSED SWALE C/W FLOW DIRECTION
- 0.5% — PROPOSED DITCH C/W FLOW DIRECTION AND SLOPE
- 1.3% — SLOPE C/W FLOW DIRECTION
- MAJOR OVERLAND FLOW ROUTE
- 104.62 — PROPOSED SPOT GRADE
- 104.40 (S) — PROPOSED SWALE GRADE
- 104.50 (S)HP — PROPOSED SWALE HIGH POINT GRADE
- 104.60 103.59 — LOT CORNER GRADE C/W EXISTING GRADE
- 86.45 EX — TIE INTO EXISTING GRADE
- 96.79 — FULL STATIC PONDING GRADE
- 105.30 T/W 103.50 — RETAINING WALL C/W TOP OF WALL AND GRASS GRADE
- TERRACING 3:1 MAXIMUM UNLESS NOTED OTHERWISE
- PRESSURE REDUCING VALVE
- F.FL. 96.32 — FINISHED FLOOR ELEVATION
- T.FND. 95.96 — TOP OF FOUNDATION ELEVATION
- U.S.F. 93.36 — UNDERSIDE OF FOOTING ELEVATION
- RISERS 0 — TOTAL NUMBER OF RISERS
- M.U.S.F — MINIMUM UNDERSIDE OF FOOTING (Based on the higher of the sewer obverts, or hydraulic grade line)
- M.G.G. — MINIMUM GARAGE GRADE
- M.R.G. 107.10 — MINIMUM GRASS GRADE
- WU — WALKUP UNIT
- WO — WALKOUT UNIT
- NS — NON-STANDARD FOUNDATION (Frost cover not provided for standard unit)
- BS — BACKSPLIT UNIT (1.5m frost cover on footings)
- F — NOISE FENCE LOCATION
- F — NOISE FENCE GATE

CATCH BASIN DATA TABLE

STRUCTURE ID	AREA ID	STRUCTURE	COVER	ELEVATION TOP OF GRATE	ELEVATION INVERT INLET	ELEVATION INVERT OUTLET	OUTLET PIPE DIAMETER (mm)	OUTLET PIPE TYPE	HEAD (m)	FLOW (l/s)	ICD TYPE
CB1	P1	OPSD 705.010	S19	101.70		100.100	200	PVC DR-35	1.50	57.5	TEMPEST HF
CB2	P1	OPSD 705.010	S19	101.50		99.900	200	PVC DR-35	1.50	57.5	TEMPEST HF
CB3	P1	OPSD 705.010	S19	101.35		99.750	200	PVC DR-35			
CB4	P1	OPSD 705.010	S19	101.45	99.550	99.450	250	PVC DR-35	1.88	57.5	TEMPEST HF
CB5	P1	OPSD 705.010	S19	101.15	99.250	99.200	250	PVC DR-35	1.83	57.5	TEMPEST HF
CB20	P1	OPSD 705.010	S19	101.25		99.650	200	PVC DR-35			
CB24	P2	OPSD 705.010	S19	101.10		99.500	200	PVC DR-35	1.50	25.0	TEMPEST HF
CB8	P2	OPSD 705.010	S19	101.15		99.550	200	PVC DR-35	1.50	25.0	TEMPEST HF
CB9	P2	OPSD 705.010	S19	101.00		99.400	200	PVC DR-35	1.50	25.0	TEMPEST HF
CB10	P2	OPSD 705.010	S19	101.05		99.450	200	PVC DR-35	1.50	25.0	TEMPEST HF
CICB11	P3	OPSD 705.010	S22&23	101.15		99.550	200	PVC DR-35	1.50	16.3	TEMPEST HF
CICB13	P3	OPSD 705.010	S22&23	100.80		99.200	200	PVC DR-35			
CICB23	P3	OPSD 705.010	S22&23	100.80	99.050	99.000	250	PVC DR-35	1.68	16.3	TEMPEST HF
CB14	P3	OPSD 705.010	S19	101.05		99.450	200	PVC DR-35	1.50	16.3	TEMPEST HF
CB15	P3	OPSD 705.010	S19	100.95		99.350	200	PVC DR-35	1.50	16.3	TEMPEST HF
CB16	P5	OPSD 705.010	S19	101.05		99.450	200	PVC DR-35	1.50	13.3	VORTEX
CB21	P5	OPSD 705.010	S19	101.60		100.000	200	PVC DR-35	1.50	13.3	VORTEX
CB22	P5	OPSD 705.010	S19	101.63		100.030	200	PVC DR-35	1.50	13.3	VORTEX
CB17	P6	OPSD 705.010	S19	101.70		100.100	200	PVC DR-35	1.50	20.0	
CB19	P4	OPSD 705.010	S19	101.08		99.480	200	PVC DR-35			
CBMH8	P4	OPSD 705.010		101.65		97.835	200	PVC DR-35	3.72	130.0	Tempest HF

Bold font indicates CB's with ICD's

Revision: 2021-05-14

NOTES :

1. ALL MATERIALS AND CONSTRUCTION IS TO BE IN ACCORDANCE WITH THE CURRENT CITY OF OTTAWA STANDARD DRAWINGS & SPECIFICATIONS OR OPSD/OPSS IF CITY DRAWINGS AND SPECIFICATIONS DO NOT APPLY.
2. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING SERVICES AND UTILITIES PRIOR TO CONSTRUCTION AND SHALL PROTECT AND ASSUME RESPONSIBILITY FOR ALL UTILITIES WHETHER OR NOT SHOW ON THESE DRAWINGS.
3. FOR GEOTECHNICAL INFORMATION REFER TO GEOTECHNICAL REPORT PG5287-1 PREPARED BY PATERSON GROUP.
4. FOR GEODETIC BENCHMARK AND GEOMETRIC LAYOUT OF STREET AND LOTS, REFER TO TOPOGRAPHICAL SURVEY AND PLAN OF SUBDIVISION PREPARED BY STANTEC GEOMATICS BENCHMARK BASED ON CAN--NET VIRTUAL REFERENCE SYSTEM NETWORK.
5. ROADWAY SECTIONS REQUIRING GRADE RAISE TO PROPOSED SUB GRADE LEVEL TO BE FILLED WITH ACCEPTABLE NATIVE EARTH BORROW OR IMPORTED OPSS SELECTED SUBGRADE MATERIAL IF NATIVE MATERIAL IS DEFICIENT AS PER RECOMMENDATION OF GEOTECHNICAL ENGINEER.
6. IN AREAS WHERE EXISTING GROUND IS BELOW THE PROPOSED ELEVATION OF SEWER AND WATERMAINS, GRADE RAISING AND FILLING IS TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. AS PER CITY GUIDELINES ALL WATERMAINS IN FILL AREAS ARE TO BE TIED WITH RESTRAINING JOINTS AND THRUST BLOCKS.
7. SILT FENCE TO BE ERECTED PRIOR TO EARTH WORKS BEING COMMENCED. SILT FENCE TO BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED OR UNTIL START OF SUBSEQUENT PHASE.
8. STRAW BALE SEDIMENT TRAPS TO BE PLACED AND MAINTAINED IN EXISTING AND CONSTRUCTED ROAD SIDE DITCHES. TRAPS TO REMAIN AND BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED (IF APPLICABLE).
9. SILT SACK TO BE PLACED AND MAINTAINED UNDER COVER OF ALL CATCHBASINS. GEOTEXTILE SILT SACK IN STREET CBs TO REMAIN UNTIL ALL CURBS ARE CONSTRUCTED. GEOTEXTILE FABRIC IN RYCBs TO REMAIN UNTIL VEGETATION IS ESTABLISHED. ALL CATCHBASINS TO BE REGULARLY INSPECTED AND CLEANED, AS NECESSARY, UNTIL SOD AND CURBS ARE CONSTRUCTED.
10. ALL CONNECTIONS TO EXISTING WATERMAINS ARE TO BE COMPLETED BY CITY FORCES. CONTRACTOR IS TO EXCAVATE, BACKFILL, COMPACT AND REINSTATE.
11. ALL LEADS FOR STREET CB's TO AND CICB's CONNECTED TO MAIN SHALL BE 250mmØ PVC DR35 @ MIN 2% SLOPE UNLESS NOTED OTHERWISE. ALL LEADS FOR RYCB's CONNECTED TO MAIN SHALL BE 200mmØ PVC DR35 @ MIN 1% SLOPE UNLESS NOTED OTHERWISE.
12. THESE DRAWINGS ARE NOT TO BE SCALED OR USED FOR LAYOUT PURPOSES.

ROADWAY STRUCTURE:

ALL LANES AND PARKING AREAS :(640mm)

40mm	- WEAR COURSE - SUPERPAVE 12.5 ASPHALTIC CONCRETE
50mm	- BINDER COURSE -SUPERPAVE 19.0 ASPHALTIC CONCRETE
150mm	- BASE - OPSS GRANULAR "A" CRUSHED STONE
400mm	- SUBBASE - OPSS GRANULAR "B" TYPE II

SAN STRUCTURE TABLE

NAME	RIM ELEV.	INVERT IN	INVERT IN AS–BUILT	INVERT OUT	INVERT OUT AS–BUILT	DESCRIPTION
EXMH17A	101.58	SE94.350				1200mmø OPSD–701.010
EXMH100A	101.27	SE96.310		NW94.550		1200mmø OPSD–701.010
MH1A	101.51	NW97.000		SW96.947		1200mmø OPSD–701.010
MH2A	101.27	NE96.604		NW96.540		1200mmø OPSD–701.010

STM STRUCTURE TABLE

NAME	RIM ELEV.	INVERT IN	INVERT IN AS–BUILT	INVERT OUT	INVERT OUT AS–BUILT	DESCRIPTION
CBMH7	100.80	SW98.022		NE98.074		1200mmø OPSD–701.010
HEADWALL	98.81	SE97.350				PRECAST EQUIVALENT OF OPSD–804.030
MH1	101.82	W98.720 NW99.000		NE98.391		1200mmø OPSD–701.010
MH2	101.19	SW98.269 SE98.956		NW98.059		1200mmø OPSD–701.010
MH3	101.21	SE97.922 W98.708 SW98.735		NE97.787		1200mmø OPSD–701.010
MH4	101.49	SW97.683		NE97.663		1200mmø OPSD–701.010
MH5	102.50	SW97.531 SE97.736		NE97.511		1800mmø OPSD–701.012
MH6	102.77	SW97.481		NW97.421		1800mmø OPSD–701.012
V1	102.70	SW97.503		NE97.088 SE91.313		1800mmø OPSD–701.012
V2	102.57	SW97.080		NE97.490 SE97.308		1500mmø OPSD–701.011

Pipe Interference Table

Crossing No.	PIPE 1	PIPE 2	Clearance
1	WTR Bottom 98.953	SAN Top 97.081	1.872
2	WTR Bottom 98.834	SAN Top 97.108	1.726
3	WTR Bottom 98.789	SAN Top 96.543	2.246
4	STM Bottom 98.929	SAN Top 96.550	2.380
5	STM Bottom 98.849	SAN Top 96.671	2.178
6	STM Bottom 97.911	SAN Top 96.843	1.068
7	WTR Bottom 99.778	STM Top 98.373	1.405
8	STM Bottom 97.953	WTR Top 97.453	0.500
9	WTR Bottom 99.250	STM Top 98.750	0.500

WATERMAIN SCHEDULE

	Station	Description	Finished Grade	Top of Watermain	Watermain Cover	As Built Watermain	
A	0+000.00`	REMOVE EXISTING 200ø CAP ADD 45 VERT. BEND	102.10	95.89	6.21		
	0+003.40	45 VERT. BEND	102.01	98.93	3.08		
	0+004.82	200V&VB	101.83	99.43	2.40		
B	0+009.30	200TEE	101.71	99.31	2.40		
	0+020.00	-	101.52	97.25	4.27		
	0+040.00	-	101.28	97.25	4.03		
	0+060.00	-	101.01	98.61	2.40		
	0+075.36	11.25 BEND	101.29	98.89	2.40		
	0+080.00	-	101.40	99.00	2.40		
	0+100.00	-	101.31	98.91	2.40		
	0+114.82	45 BEND	101.48	99.08	2.40		
D	0+120.00	-	101.47	99.07	2.40		
C	0+122.21	200TEE	101.41	99.01	2.40		
	0+123.96	200TEE	101.39	98.99	2.40		
	0+126.35	45 BEND	101.35	98.95	2.40		
	01+40.00	-	101.40	99.00	2.40		
	0+160.00	-	101.40	99.00	2.40		
	0+177.81	45 BEND	101.37	98.97	2.40		
	0+180.00	-	101.39	98.99	2.40		
	0+185.94	45 BEND VERTICAL BEND	101.48	99.08	2.40		
	0+186.38	45 BEND VERTICAL BEND	101.48	99.45	2.03		INSULATE W/M PER W25.2
	0+187.73	45 BEND VERTICAL BEND	101.49	99.45	2.04		INSULATE W/M PER W25.2
	0+188.17	45 BEND VERTICAL BEND	101.50	99.10	2.40		
	0+189.69	HYDRANT TEE	101.57	99.17	2.40		
	0.200.00	-	101.16	98.76	2.40		
	0+205.44	22.5 BEND	101.17	98.77	2.40		
	0+208.83	11.25 BEND	101.23	98.83	2.40		
	0+211.16	HYDRANT TEE	101.28	98.88	2.40		
	0+220.00	-	101.34	98.94	2.40		
	0+221.70	200TEE	101.50	99.10	2.40		
E	0+226.61	REMOVE EXISTING 200Ø CAP AND CONNECT	101.33	98.47	2.86		
B	0+000.00	200TEE	101.71	99.31	2.40		
	0+002.06	22.5 BEND	101.83	99.43	2.40		
	0+020.00	-	101.84	99.44	2.40		
	0+040.00	-	102.11	99.71	2.40		
	0+049.51	45 BEND	102.45	100.05	2.40		
	0+056.70	MULLER VALVE	102.57	100.17	2.40		
F	0+059.57	HYDRANT	102.32	99.92	2.40		
D	0+000.00	200TEE	101.41	99.01	2.40		
	0+002.38	45 BEND	101.37	98.97	2.40		
	0+005.99	200V&VB	101.46	99.06	2.40		
G	0+008.88	200mmø SERVICE CONNECTION	101.56	99.16	2.40		
C	0+000.00	200TEE	101.39	98.99	2.40		
	0+003.19	45 BEND	101.42	99.02	2.40		
	0+010.04	200V&VB	101.41	99.01	2.40		
H	0+013.06	200mmø SERVICE CONNECTION	101.47	99.07	2.40		
I	0+000.00	200TEE	101.50	99.10	2.40		
	0+015.72	STEEL CASING	101.31	98.91	2.40		
	0+024.82	STEEL CASING	101.27	98.87	2.40		
	0+028.03	45 BEND	101.26	98.86	2.40		
	0+030.30	45 BEND	101.31	98.91	2.40		
	0+038.27	200V&VB	101.52	99.12	2.40		
J	0+041.23	200mmø SERVICE CONNECTION	101.61	99.21	2.40		

REVISED 2021-05-10

CLIENT

THE BURROUGHS KANATA LP

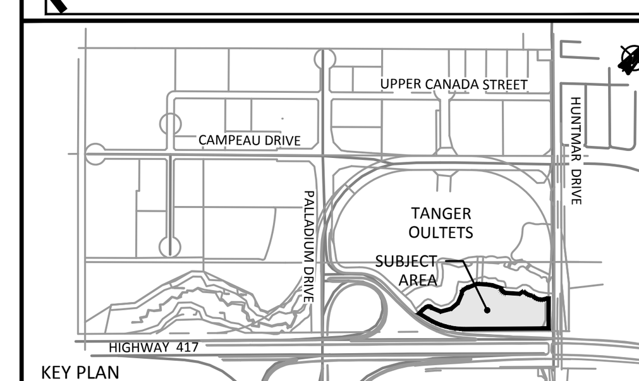
6783 WELLINGTON ROAD
RR #22 CAMBRIDGE
ON, N3C 2V4

ISSUES

No.	DESCRIPTION	DATE
1	ISSUED FOR CLIENT REVIEW	2021-04-16
2	ISSUED FOR SPA	2021-05-14

NOT FOR CONSTRUCTION

SEE 010, FOR NOTES, LEGEND, CB TABLE, AND DETAILS



KEY PLAN
N.T.S.

CONSULTANTS

SEAL

LICENSED PROFESSIONAL ENGINEER
D. G. Yannoulopoulos
20201/05/14
PROVINCE OF ONTARIO

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

PROJECT
THE BURROUGHS KANATA

319 HUNTMAR DRIVE

PROJECT NO:	
127255	
DRAWN BY: **D.P.S.**	CHECKED BY: **J.B.**
PROJECT MGR: **D.G.Y.**	APPROVED BY: **D.G.Y.**

SHEET TITLE

GENERAL NOTES, LEGEND AND CB DATA TABLE

SHEET NUMBER: C-010
ISSUE: 2

SCALE CHECK 1 in 10mm

CITY FILE No. D07-XX-XX-XXXX

CITY PLAN No. xxxxx

File Location: W:\127255_8555Campeau\7.0_Production\7.03_Design\04_Civil\Sheets\C-010 GENERAL NOTES LEGEND AND CB DATA TABLE.dwg Last Saved: May 14, 2021, by dsiurna Plotted: Monday, May 17, 2021 2:45:00 PM by Don Siurna


FEEDMILL CREEK
HUNTMAR DRIVE
HWY 417
BUILDING A
BUILDING B
BUILDING C
BUILDING D
AMENITY BUILDING
POOL STORAGE
PLAZA
PLAYGROUND
POOL
BLOCK 4
BLOCK 2
OPEN MPH ENCLOSURE
ROOF RELEASE RATE 10 l/s
TRANSFORMER LOCATION
LANDSCAPE SPACE GRADING AND DRAINAGE TO BE COORDINATED WITH LANDSCAPE ARCHITECT
AMENITY SPACE GRADING AND DRAINAGE TO BE COORDINATED WITH LANDSCAPE ARCHITECT
OVERLAND FLOW CHANNEL (REINFORCED GRASS)
REMOVE EXISTING GRAVEL ROAD AND REINSTATE WITH 150mm TOPSOIL AND SEED
MATCH EXISTING
SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR CONCRETE RAMP DETAILS
SEE TRANSPORTATION IMPROVEMENT DRAWING FOR MORE DETAILS
CHAIN LINK FENCE
Project North

CLIENT

THE BURROUGHS KANATA LP

6783 WELLINGTON ROAD
RR #22 CAMBRIDGE
ON, N3C 2V4

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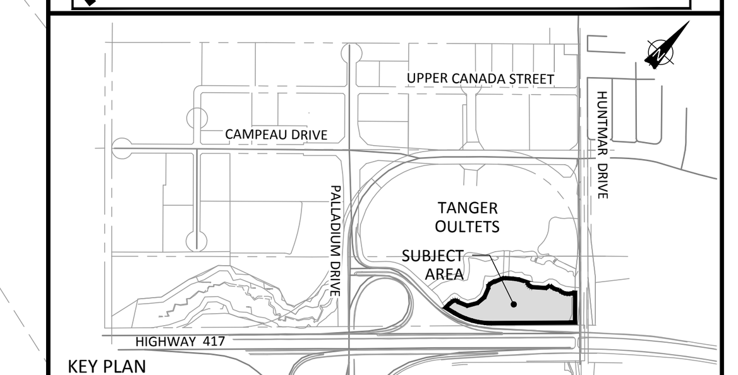
SEE 010, FOR NOTES, LEGEND, CB TABLE, AND DETAILS



KEY PLAN
N.T.S.

CONSULTANTS

1:500 0 5 15 25m

SEAL

LICENSED PROFESSIONAL ENGINEER
D. G. Yannoulopoulos
20201/05/14
PROVINCE OF ONTARIO

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

PROJECT

THE BURROUGHS KANATA

319 HUNTMAR DRIVE

PROJECT NO:
127255

DRAWN BY:	CHECKED BY:
D.P.S.	**J.B.**
PROJECT MGR:	APPROVED BY:
D.G.Y.	**D.G.Y.**

SHEET TITLE

SITE GRADING PLAN

SHEET NUMBER
C-200

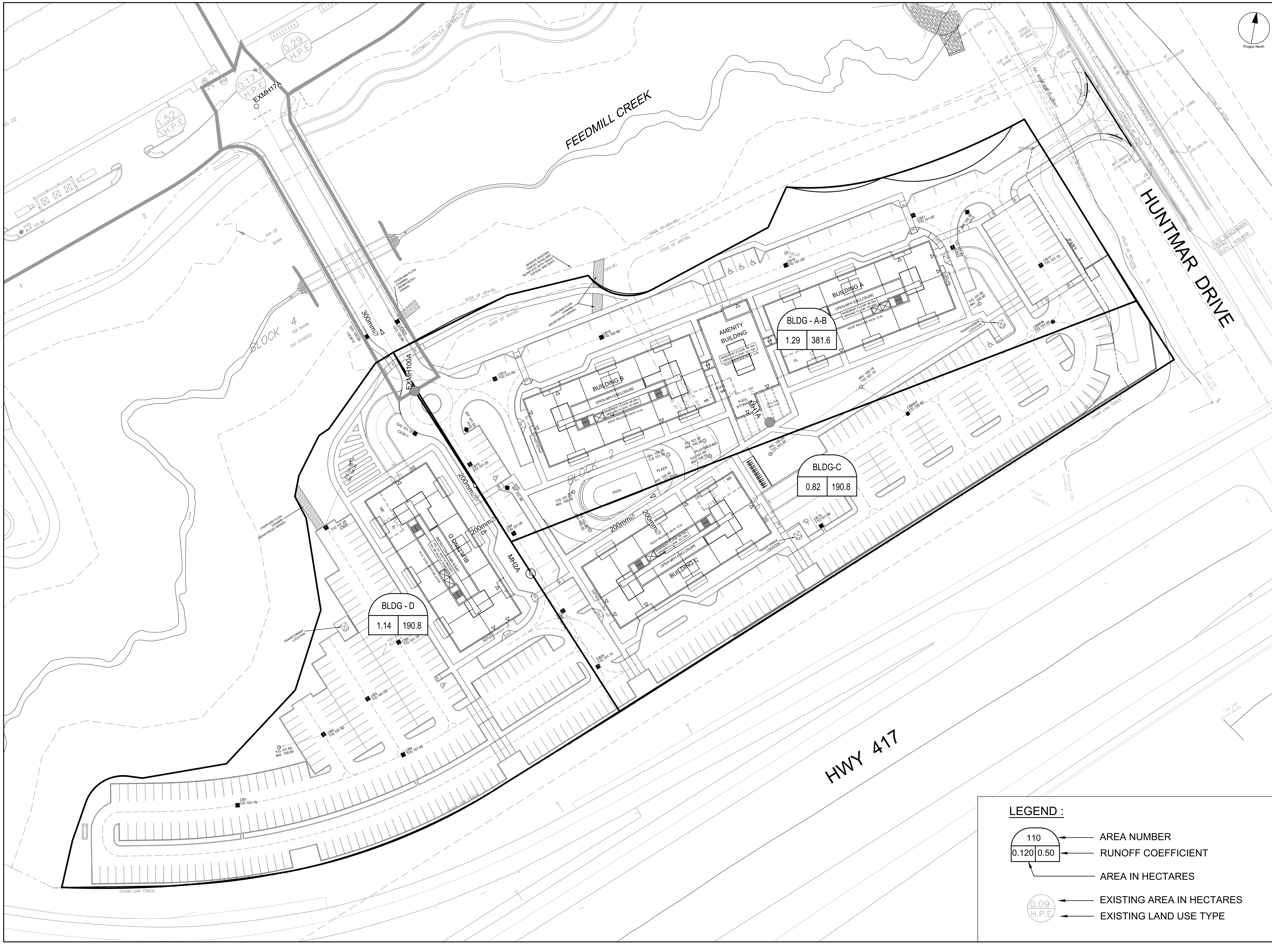
ISSUE
2

SCALE CHECK 1 in 10mm

CITY FILE No. D07-XX-XX-XXXX

File Location: W:\127255_8555Campeau\7.0_Production\7.03_Design\04_Civil\Sheets\C-200 SITE GRADING PLAN.dwg Last Saved: May 12, 2021, by dsiurna Plotted: Monday, May 17, 2021 2:45:42 PM by Don Siurna

CITY PLAN No. xxxxx



CLIENT

THE BURROUGHS KANATA LP

6783 WELLINGTON ROAD
RR #22 CAMBRIDGE
ON, N3C 2V4

ISSUES

No.	DESCRIPTION	DATE
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NOT FOR CONSTRUCTION

SEE 010, FOR NOTES, LEGEND, CB TABLE, AND DETAILS

KEY PLAN
N.T.S.

UPPER CANADA STREET
CAMPEAU DRIVE
PALLADIUM DRIVE
HUNTMAR DRIVE
TANGER OULTETS
SUBJECT AREA
HIGHWAY 417

CONSULTANTS

1:500 0 5 15 25m

SEAL

LICENSED PROFESSIONAL ENGINEER
D. G. Yannoulopoulos
20201/05/14
PROVINCE OF ONTARIO

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

PROJECT
THE BURROUGHS KANATA

319 HUNTMAR DRIVE

PROJECT NO:
127255

DRAWN BY:	CHECKED BY:
D.P.S.	J.B.
PROJECT MGR:	APPROVED BY:
D.G.Y.	D.G.Y.

SHEET TITLE
SANITARY DRAINAGE AREA PLAN

SHEET NUMBER
C-400

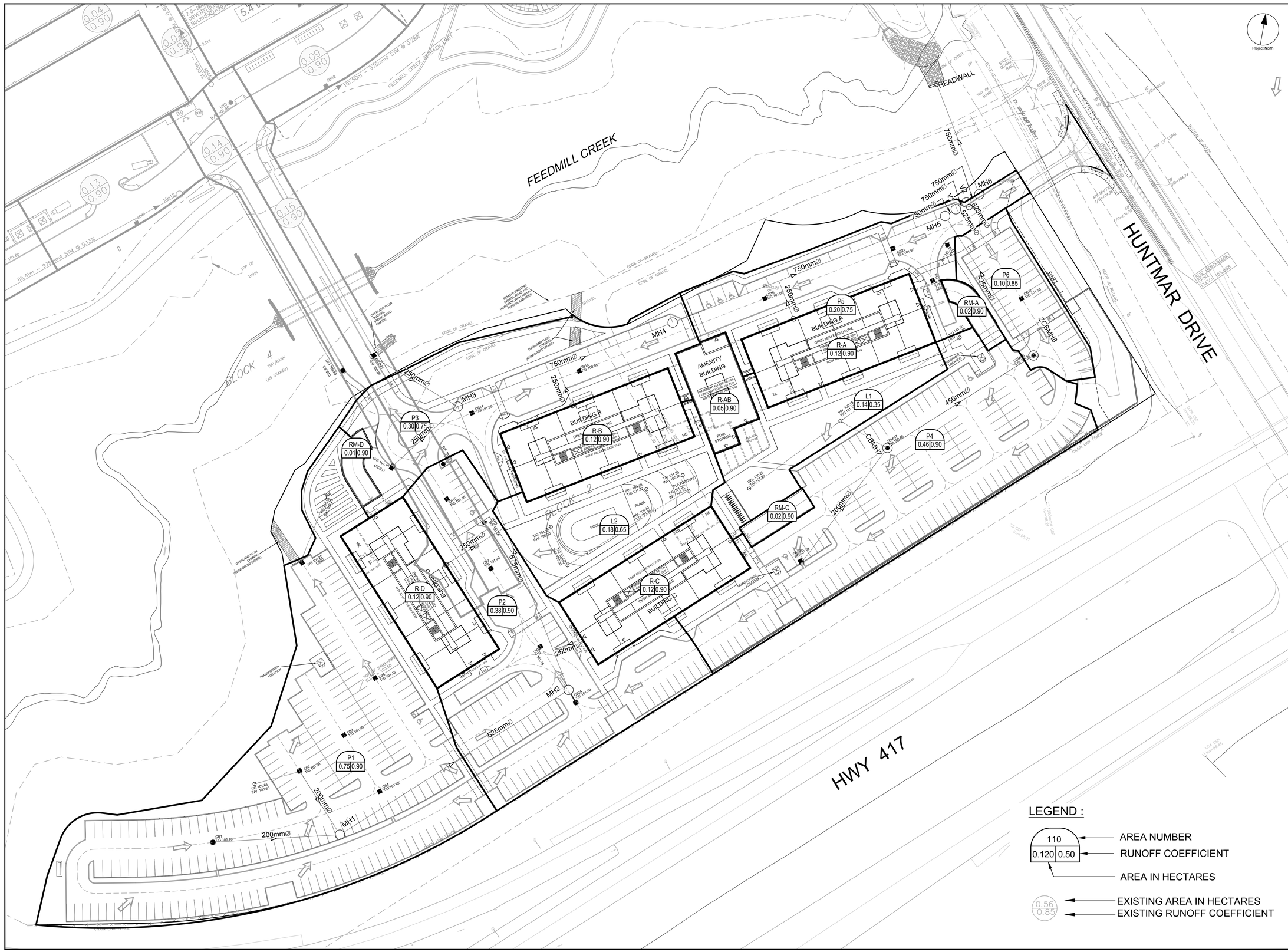
ISSUE
2

CITY PLAN No. xxxxx

SCALE CHECK 1 in 10mm

CITY FILE No. D07-xx-xx-XXXX

File Location: W:\127255_8555Campeau\7.0_Production\7.03_Design\04_Civil\Sheets\C-400 SANITARY DRAINAGE AREA PLAN.dwg Last Saved: April 28, 2021, by dsiurna Plotted: Monday, May 17, 2021 2:46:13 PM by Don Siurna



CLIENT

THE BURROUGHS KANATA LP

6783 WELLINGTON ROAD
RR #22 CAMBRIDGE
ON, N3C 2V4

ISSUES

No.	DESCRIPTION	DATE
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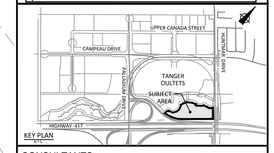
2	ISSUED FOR SPA	2021-05-14

NOT FOR CONSTRUCTION

C-010, FOR NOTES, LEGEND, CB TABLE, AND DETAILS



CONSULTANTS

1:500 0 5 15 25m

SEAL

LICENSED PROFESSIONAL ENGINEER
L.D. 45. Yannoulopoulos
2020/05/14
PROVINCE OF ONTARIO

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

PROJECT
THE BURROUGHS KANATA

319 HUNTMAR DRIVE

PROJECT NO: 127255	
DRAWN BY: D.P.S.	CHECKED BY: J.B.
PROJECT MGR: D.G.Y.	APPROVED BY: D.G.Y.

SHEET TITLE
STORM DRAINAGE AREA PLAN

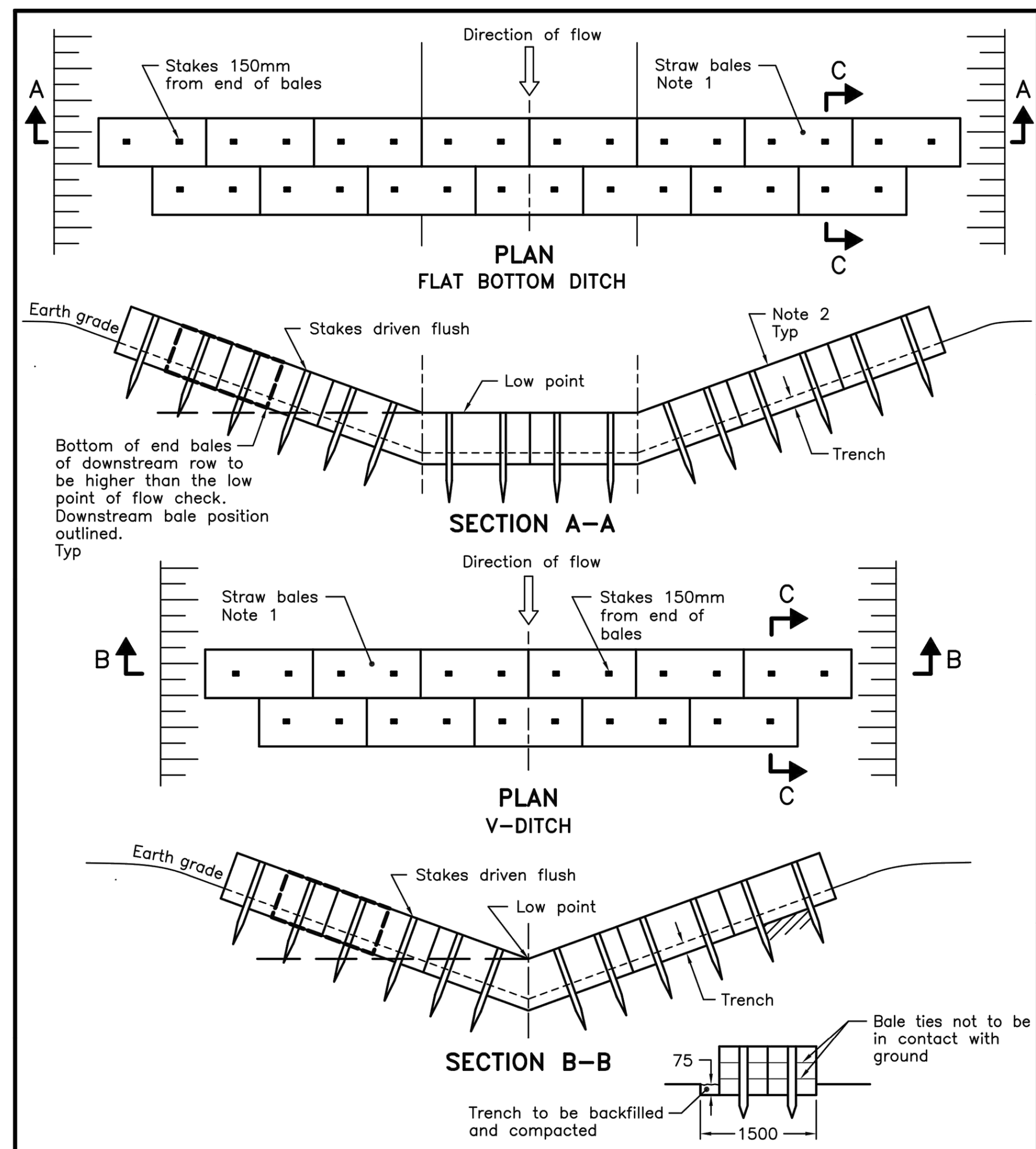
SHEET NUMBER	ISSUE
C-500	2

SCALE CHECK

CITY FILE No. D07-XX-XX-XXXX

CITY PLAN No. xxxxx

File Location: W:\127255_8505\Campeau\7.0_Production\7.03_Design\04_Civil\Sheets\C-500 STORM DRAINAGE AREA PLAN.dwg Last Saved: May 11, 2021, by dsiuma Plotted: Monday, May 17, 2021 2:48:47 PM by Don Siuma

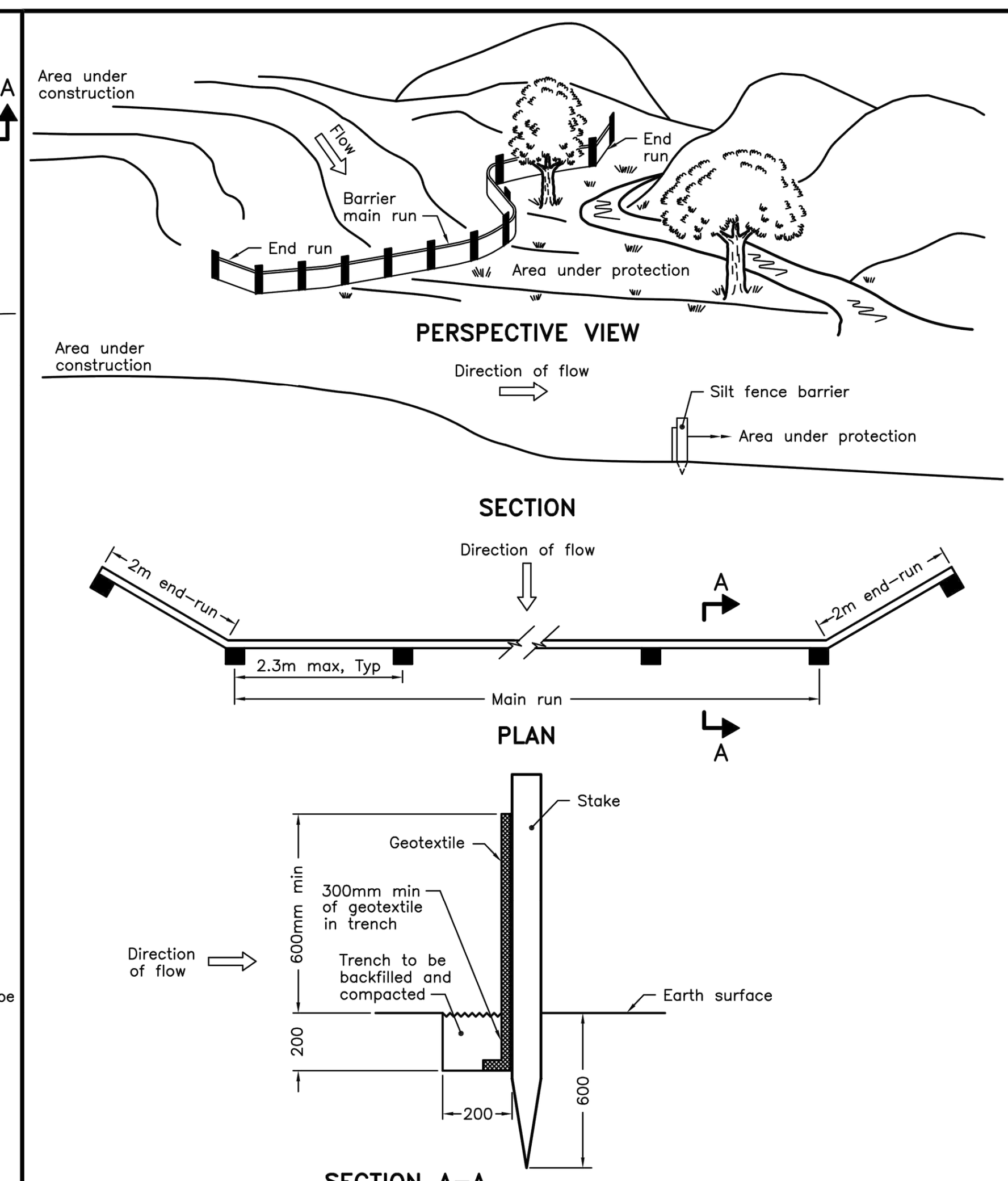


NOTES:
1 Number of bales varies to suit ditch.
2 Straw bales to be butted tightly against adjoining bales and shaped to conform to the sides of the ditch to prevent water flow through barrier.
A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2006 | Rev 1

STRAW BALE FLOW CHECK DAM

OPSD 219.180

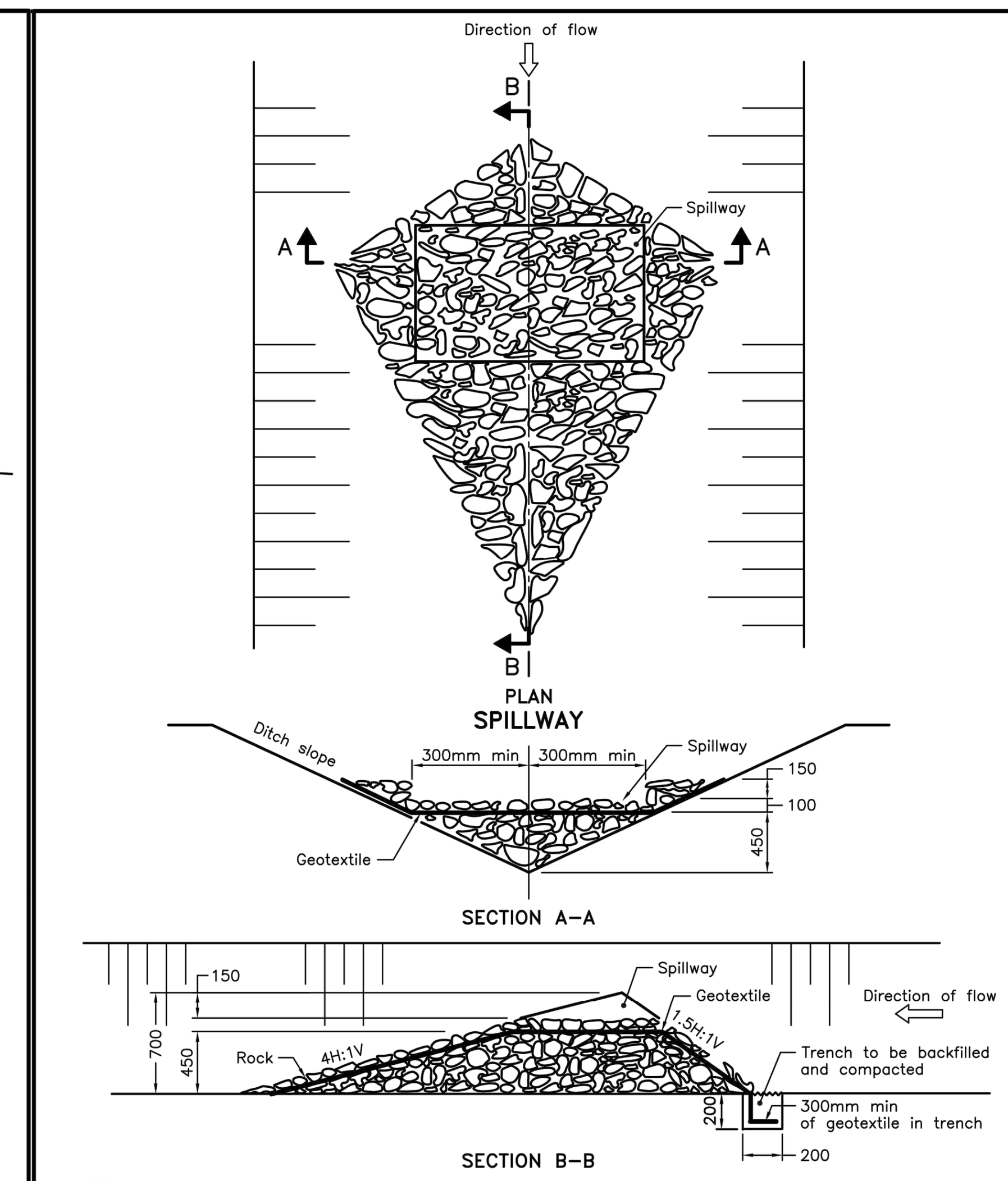


NOTE:
A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2006 | Rev 1

LIGHT–DUTY SILT FENCE BARRIER

OPSD 219.110



NOTE:
A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2006 | Rev 1

ROCK FLOW CHECK DAM
V–DITCH

OPSD 219.210

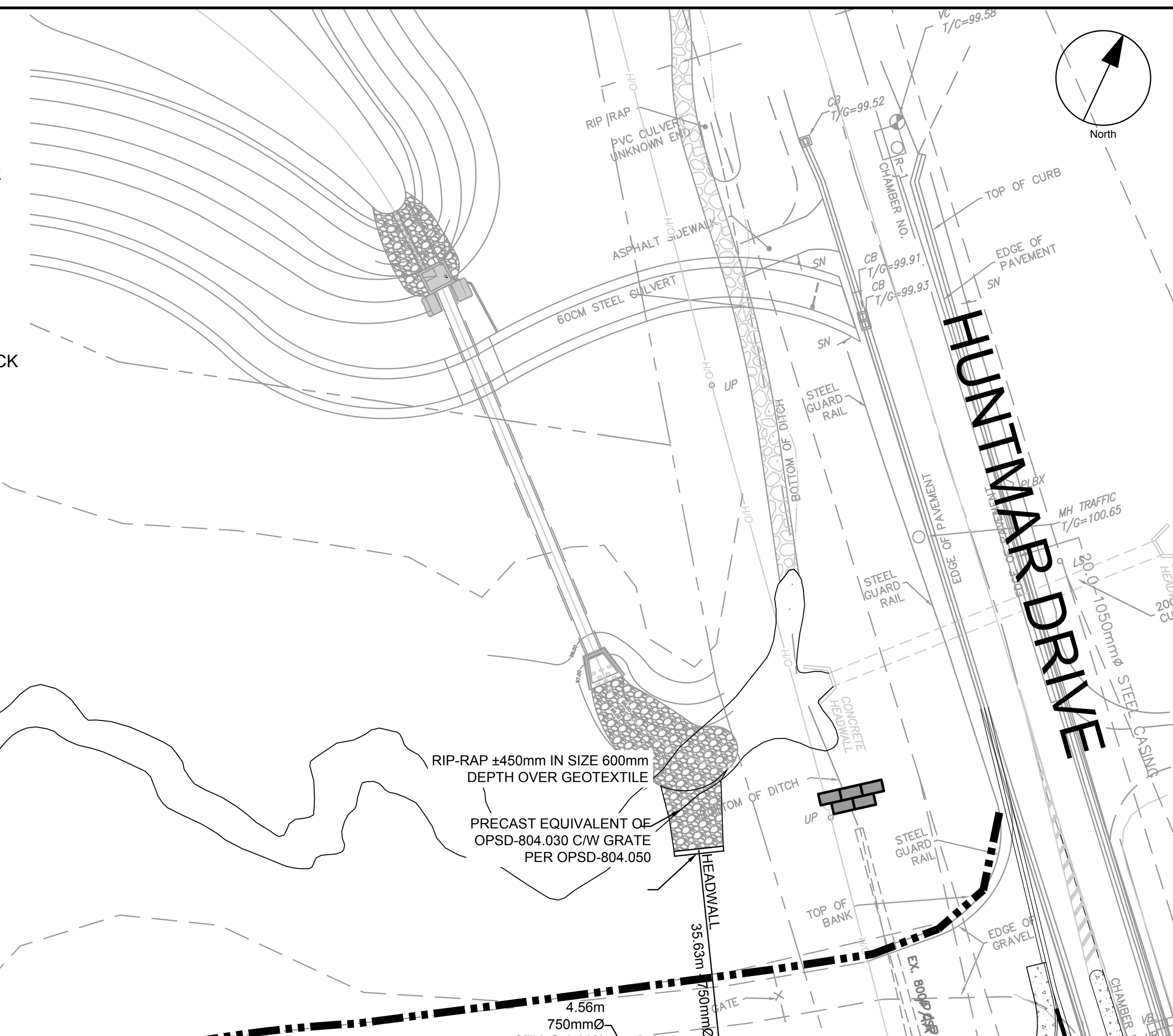
LEGEND :

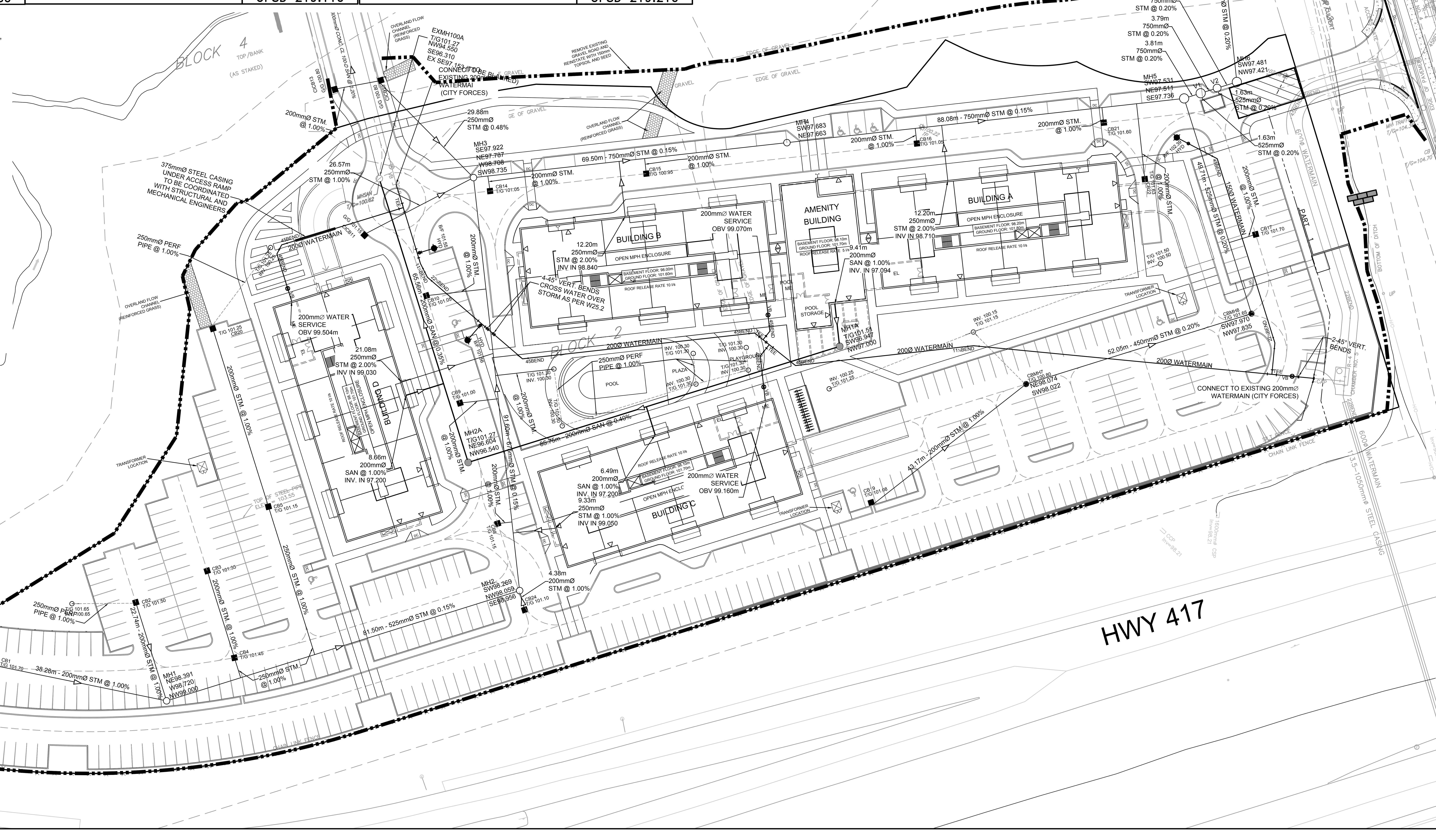
- LIGHT DUTY SILT FENCE AS PER OPSD-219.110
- SNOW FENCE
- STRAW BALE CHECK DAM AS PER OPSD-219.180
- ROCK CHECK DAM AS PER OPSD-219.210
- SILT SACK PLACED UNDER EXISTING CB COVER
- TEMPORARY MUD MAT 0.15m THICK 50mm CLEAR STONE ON NON WOVEN FILTER CLOTH (15.0 × 7.0)

NOTES:

THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE, DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY,

1. SILT FENCE TO BE ERECTED PRIOR TO EARTH WORKS BEING COMMENCED. SILT FENCE TO BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED OR UNTIL START OF SUBSEQUENT PHASE.
2. STRAW BALE SEDIMENT TRAPS TO BE CONSTRUCTED IN EXISTING ROAD SIDE DITCHES. TRAPS TO REMAIN AND BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED.
3. SILT SACK TO BE PLACED AND MAINTAINED UNDER COVER OF ALL CATCHBASINS. GEOTEXTILE SILT SACK IN STREET CBs TO REMAIN UNTIL ALL CURBS ARE CONSTRUCTED. ALL CATCHBASINS TO BE REGULARLY INSPECTED AND CLEANED, AS NECESSARY, UNTIL SOD AND CURBS ARE CONSTRUCTED.
4. CONTRACTOR TO PROVIDE DETAILS ON LOCATION(S) AND DESIGN OF DEWATERING TRAP(S) PRIOR TO COMMENCING WORK. CONTRACTOR ALSO RESPONSIBLE FOR MAINTAINING TRAP(S) AND ADJUSTING SIZE(S) IF DEEMED REQUIRED BY THE ENGINEER DURING CONSTRUCTION.
5. WORKS NOTED ABOVE ARE TO BE INSTALLED, INSPECTED, MAINTAINED AND ULTIMATELY REMOVED BY SERVICING CONTRACTOR.
6. THIS IS A "LIVING DOCUMENT" AND MAY BE MODIFIED IN THE EVENT THE PROPOSED CONTROL MEASURES ARE INSUFFICIENT





CLIENT

THE BURROUGHS KANATA LP

6783 WELLINGTON ROAD
RR #22 CAMBRIDGE
ON, N3C 2V4

ISSUES

No.	DESCRIPTION	DATE
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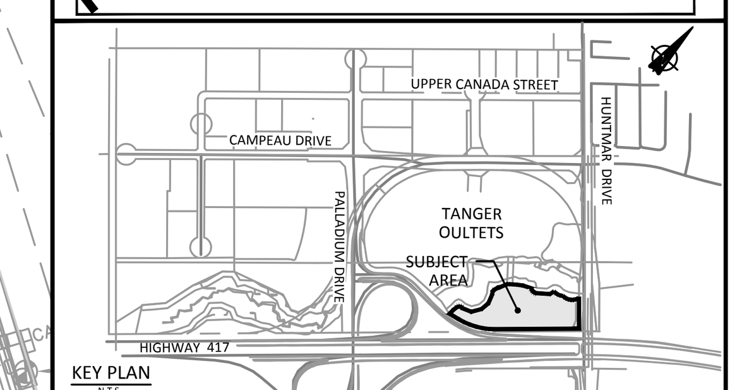

KEY PLAN
N.T.S.

LEGEND

1:500 0 5 15 25m

SEAL

IBI GROUP
Suite 400 – 333 Preston Street
Ottawa ON K1S 5N4 Canada
tel 613 225 1311 / 613 241 3300 fax 613 225 9868
ibigroup.com

PROJECT

THE BURROUGHS KANATA

319 HUNTMAR DRIVE

PROJECT NO: 127255	
DRAWN BY: D.P.S.	CHECKED BY: J.B.
PROJECT MGR: D.G.Y.	APPROVED BY: D.G.Y.

SHEET TITLE

EROSION AND SEDIMENTATION CONTROL PLAN

SHEET NUMBER	ISSUE
C-900	2

CITY PLAN No. xxxxx

CITY FILE No. D07-xx-xx-xxxx

SCALE CHECK 1 in 10mm

File Location: W:\127255_8555Campeau\7.0_Production\7.03_Design\04_Civil\Sheets\C-900 EROSION AND SEDIMENTATION CONTROL PLAN.dwg Last Saved: May 14, 2021, by dsiurna Plotted: Monday, May 17, 2021 2:47:17 PM by Don Siurna