

MATCHLINE
REFER TO DWG. 20027-S2

STRUCTURE	100 YEAR OUTFLOW (L/s)	100 YEAR HEAD (m)	ORIFICE DIAMETER (mm)	TYPE
CB 1	105	1.79	190.7	SLIDE
CB 2	60	1.79	144.1	SLIDE
CB 3	80	1.79	166.4	SLIDE
CB 4	55	1.82	137.5	SLIDE
CB 5	105	1.79	190.7	SLIDE
CB 6	60	1.77	144.5	SLIDE
CB 7	60	1.80	144.0	SLIDE
CB 8	30	1.82	101.6	SLIDE
CB 9	55	1.66	140.8	SLIDE
CB 10	30	1.58	105.3	SLIDE
CB 11	25	1.74	93.8	SLIDE
CB 12	40	1.66	120.1	SLIDE
CB 13	30	1.75	102.6	SLIDE
CB 14	25	1.74	93.8	SLIDE
DICB 15	20	1.63	85.3	SLIDE
DICB 17	20	1.63	85.3	SLIDE

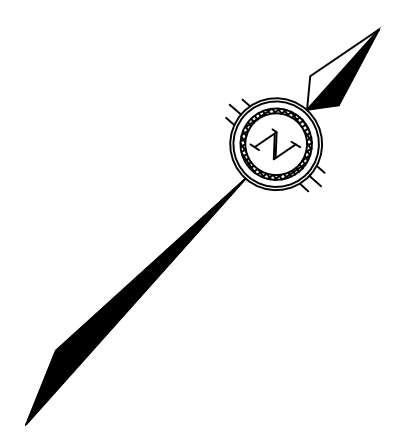
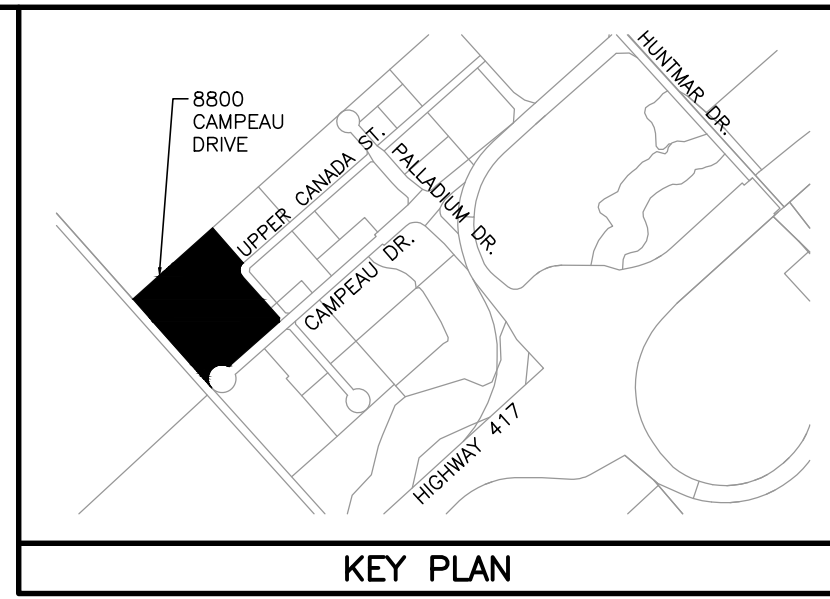
STRUCTURE	STRUCTURE SIZE	T/G ELEV	INVERT	GRATE
CB 1	600x600mm	106.42	NE=104.74	S19
CB 2	600x600mm	106.32	NE=104.64	S19
CB 3	600x600mm	106.22	NE=104.54	S19
CB 4	600x600mm	106.15	NE=104.47	S19
CB 5	600x600mm	106.42	NE=104.74	S19
CB 6	600x600mm	106.32	NE=104.64	S19
CB 7	600x600mm	106.22	NE=104.54	S19
CB 8	600x600mm	105.95	NE=104.27	S19
CB 9	600x600mm	107.10	NE=105.42	S19
CB 10	600x600mm	106.64	NE=105.13	S19
CB 11	600x600mm	106.06	SE=104.38	S19
CB 12	600x600mm	107.10	SW=105.42	S19
CB 13	600x600mm	106.64	SW=104.96	S19
CB 14	600x600mm	106.06	SE=104.38	S19
CB 16	600x600mm	106.61	SW=105.41	S19
DICB 15	600x600mm	106.42	SW=104.67	403.010
DICB 17	600x600mm	106.50	NE=104.75	403.010

STATION	FINISHED GRADE (m)	TOP OF WATER (m)	DESCRIPTION
0+000	106.17	103.86	200mm OFF 250mm TEE
0+010.1	106.25	103.85	VALVE & VALVE BOX
0+020	106.36	103.96	TOP OF WATERMAIN
0+030	106.63	104.23	TOP OF WATERMAIN
0+040	107.08	104.68	TOP OF WATERMAIN
0+050	107.77	105.37	152mm OFF 250mm HYDRANT TEE
0+060	107.78	105.38	TOP OF WATERMAIN
0+066.3	107.89	105.49	11.25' BEND
0+070.8	108.08	105.50	CAP

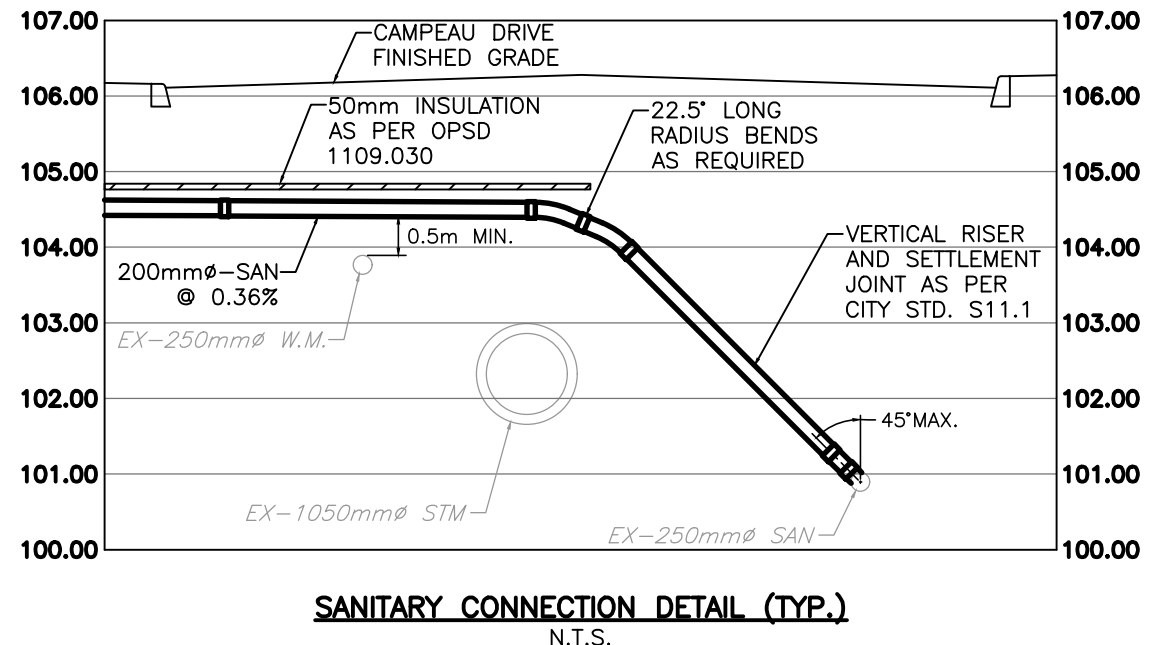
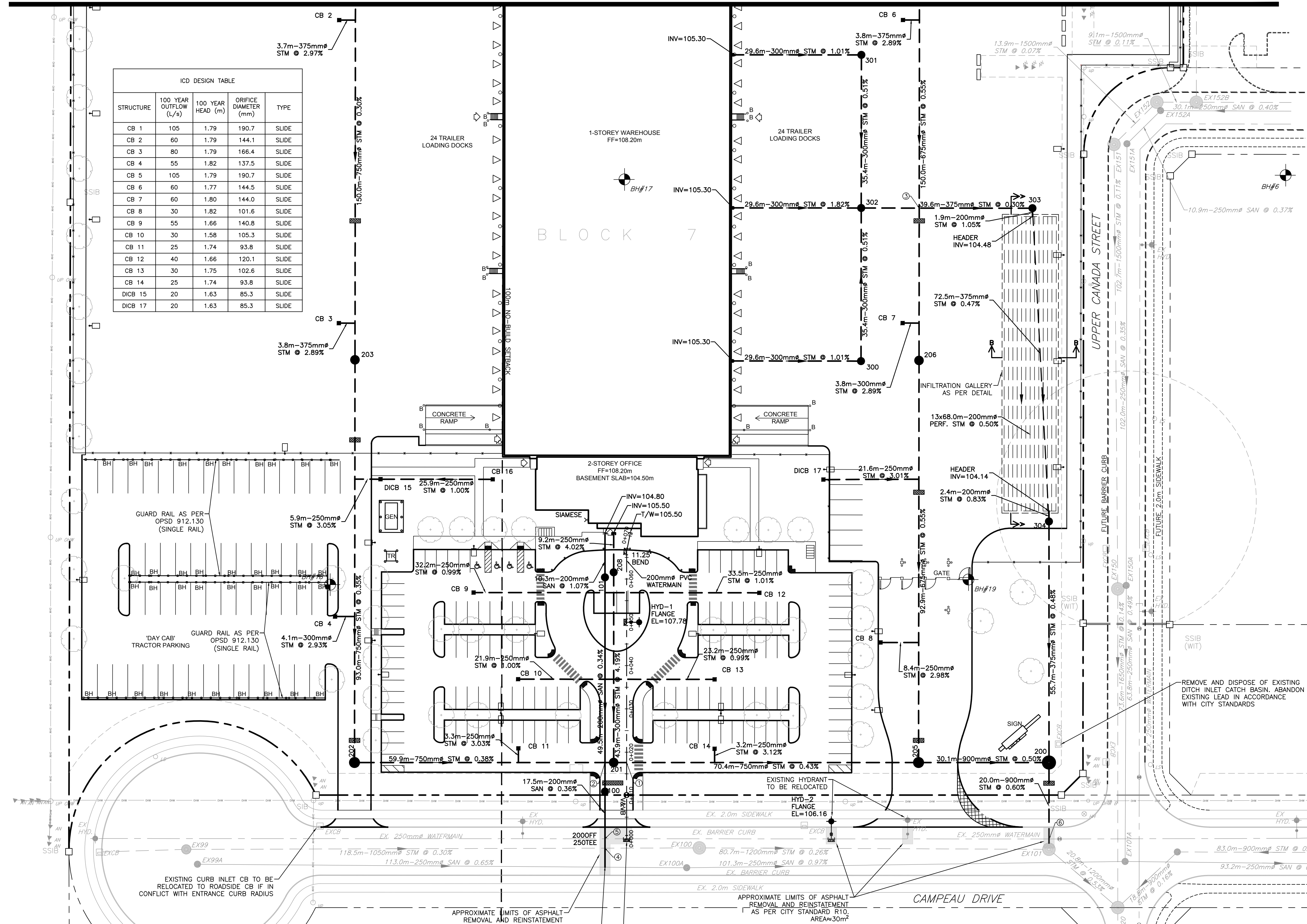
STRUCTURE	STRUCTURE SIZE	T/G ELEV	INVERT	GRATE
200	2400mm ϕ	105.88	NW=103.82 SW=102.04 SE=101.98	S24.1
201	1500mm ϕ	106.37	SW=102.67 NW=103.24 NE=102.64	S24.1
202	1800mm ϕ	106.43	NW=102.96 NE=102.90	S24.1
203	1500mm ϕ	106.35	NW=103.32 SE=103.29	S24.1
204	1500mm ϕ	106.46	SE=103.76	S24.1
205	1800mm ϕ	106.23	NW=102.42 SW=102.34 NE=102.19	S24.1
206	1500mm ϕ	106.33	NW=102.96 SE=102.93	S24.1
207	1500mm ϕ	106.46	SE=103.78	S24.1
208	1200mm ϕ	106.66	NW=105.13 SE=105.08	S24.1
300	1200mm ϕ	106.44	NW=104.94 SW=105.00	S24.1
301	1200mm ϕ	106.47	SE=104.94 SW=105.00	S24.1
302	1200mm ϕ	106.55	SE=104.76 NE=104.68 NW=104.76 SW=104.76	S24.1
303	1200mm ϕ	106.76	SW=104.56 SE=104.50 SE=105.18	S24.1
304	1200mm ϕ	106.48	NW=104.12 SE=104.09 NW=104.84	S24.1
EX101	2400mm ϕ	105.88	SW=101.44 E=101.41 NW=101.86	S24.1

STRUCTURE	STRUCTURE SIZE	T/G ELEV	INVERT	GRATE
100	1200mm ϕ	106.28	NW=104.49 E=104.46	S24
101	1200mm ϕ	108.28	SE=104.66 NW=104.69	S24

CROSSING No.	INVERTS (m)	SEPARATION (m)
1	WATER INV.=103.77	0.27
	STM OBV.=103.50	
	SAN INV.=104.51	
2	STM OBV.=103.55	0.96
	STM INV.=104.64	
	STM OBV.=103.94	
3	SAN INV.=104.41	1.41
	EX STM OBV.=103.00	
	SAN INV.=104.42	
4	EX WATER OBV.=103.88	0.54
	EX WATER INV.=103.28	
5	STM OBV.=102.90	0.38
	STM OBV.=102.90	



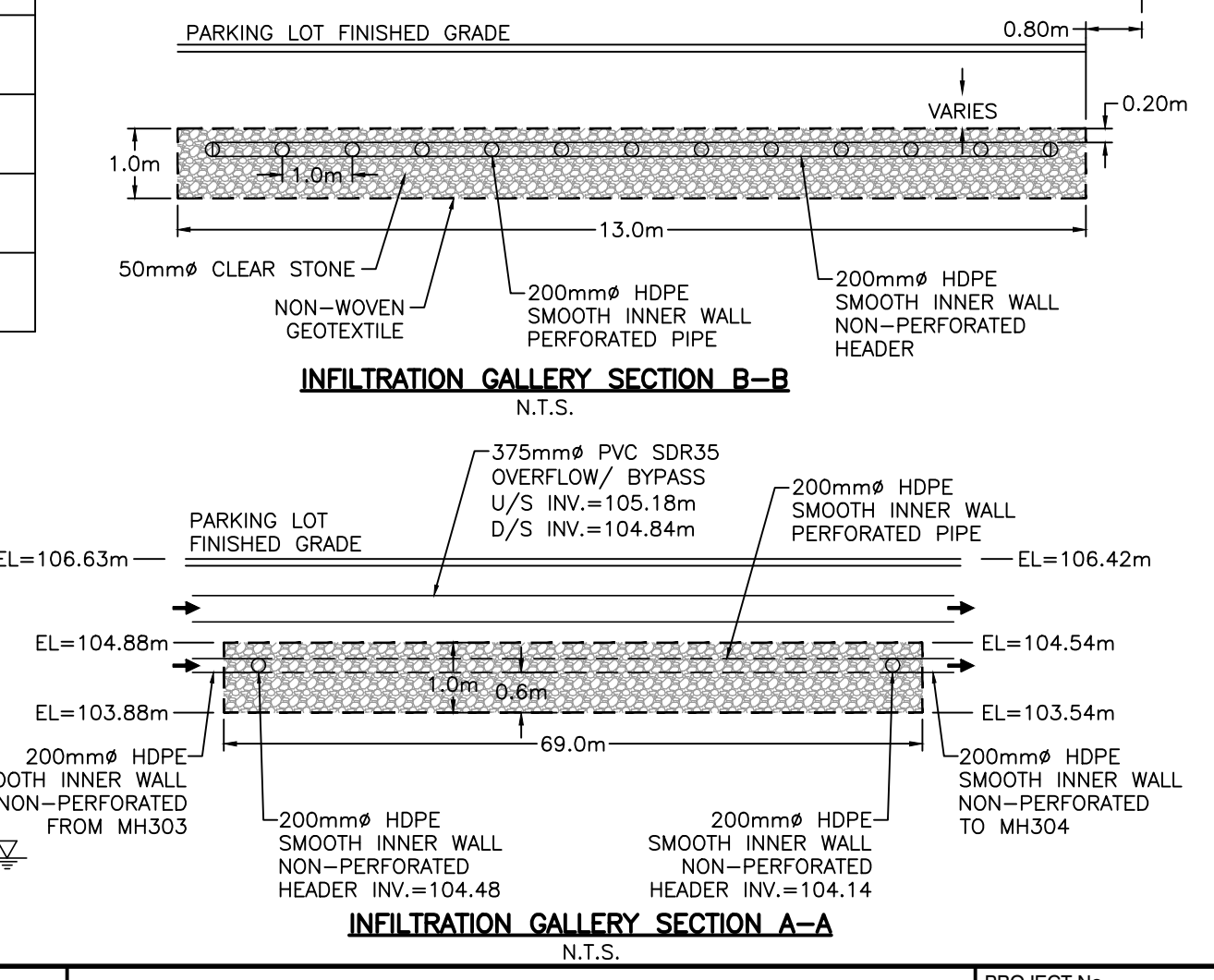
- LEGEND**
- PROPERTY BOUNDARY
 - CATCH BASIN
 - STORM SEWER & MANHOLE
 - SANITARY SEWER & MANHOLE
 - WATERMAIN
 - HYDRANT
 - VALVE & VALVE BOX
 - ⋈ SIAMSE CONNECTION
 - EXISTING CATCH BASIN
 - EXISTING STORM SEWER & MANHOLE
 - EXISTING SANITARY SEWER & MANHOLE
 - EXISTING WATERMAIN
 - EXISTING HYDRANT
 - EXISTING VALVE & VALVE BOX
 - 100m NO-BUILD SETBACK
 - ▨ CLAY SEAL
 - ⊕ BOREHOLE
 - ⊙ CROSSING NUMBER
 - GALVANIZED CHAIN LINK FENCE (REFER TO SITE PLAN)
 - GALVANIZED W-BEAM GUARDRAIL (OPSD 912.130)
 - △ BUILDING ENTRANCE (REFER TO SITE PLAN)
 - ⊙ BOLLARD (REFER TO SITE PLAN)
 - ⊙ POST-MOUNTED BLOCK HEATER (REFER TO SITE PLAN)
 - LIGHT STANDARD (REFER TO SITE PLAN)
 - JERSEY BARRIER (REFER TO SITE PLAN)
 - TWSI (REFER TO SITE PLAN)
 - PROPOSED TREE (REFER TO LANDSCAPE PLAN)



Allison Hamlin

ALLISON HAMLIN
MANAGER (A), DEVELOPMENT REVIEW WEST
PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT
DEPARTMENT, CITY OF OTTAWA

APPROVED
By Allison Hamlin at 1:13 pm, May 05, 2022



NOTES

THE POSITION OF ALL POLE LINES, CONDUITS, WATERMAINS, 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.

NO.	REVISION DESCRIPTION	DATE	BY
6	REVISED PER COMMENTS	17/01/22	BLM
5	REVISED PER COMMENTS	09/08/21	SMC
4	ISSUED FOR TENDER	11/06/21	SMC
3	REVISED PER COMMENTS	28/05/21	SMC
2	ISSUED FOR PROGRESS REVIEW	22/03/21	SMC
1	ISSUED FOR SITE PLAN APPLICATION	02/12/20	SMC



Robinson
Land Development

350 Palladium Drive
Ottawa, ON K2V 1A8
(613) 592-6060 roii.com

DESIGN	BLM
CHECKED	SMC
DRAWN	BLM
CHECKED	SMC
APPROVED	SMC

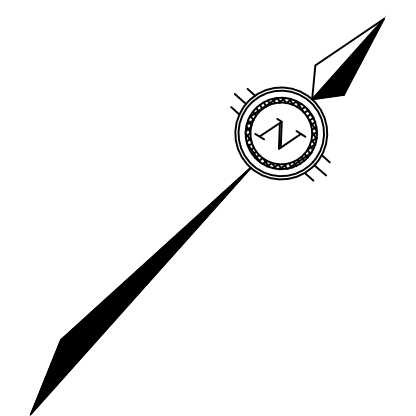
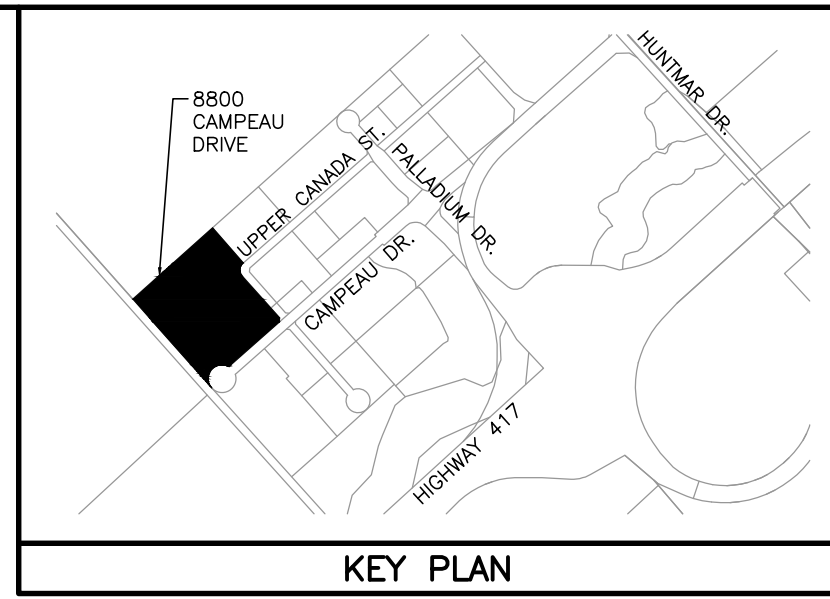
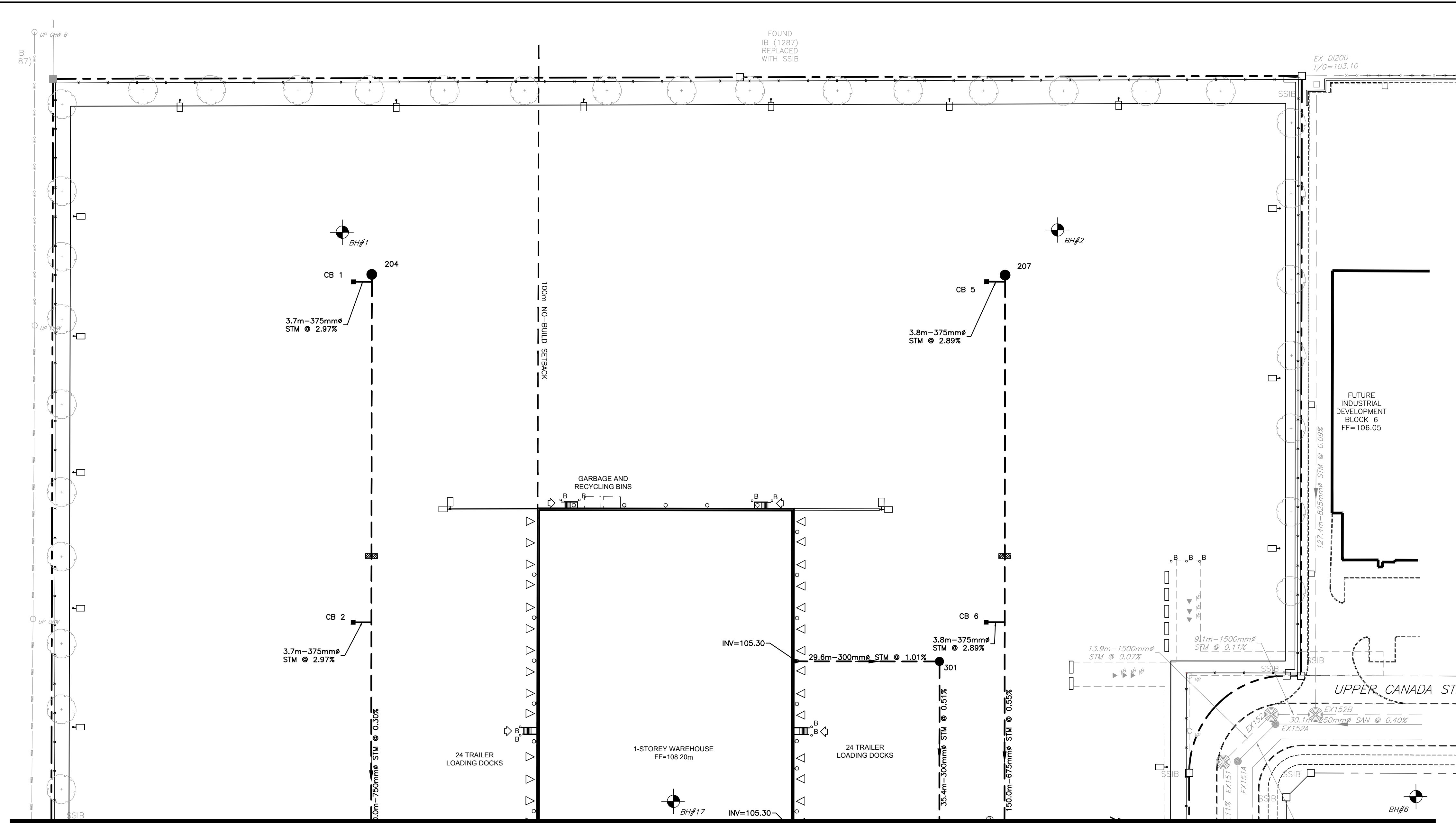
MARITIME-ONTARIO
FREIGHT LINES LIMITED

KANATA WEST BUSINESS PARK
8800 CAMPEAU DRIVE, OTTAWA, ON

SERVICING PLAN

PROJECT No.	20027
SURVEY	STANTEC
DATED	JANUARY 2022
DWG. No.	20027-S1

D07-12-20-0189



STORM MANHOLE TABLE				
STRUCTURE	STRUCTURE SIZE	T/G ELEV	INVERT	GRATE
200	2400mm	105.88	NW=103.82 SW=102.04 SE=101.98	S24.1
201	1500mm	106.37	SW=102.67 NW=103.24 NE=102.64	S24.1
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301	1200mm	106.47	SE=104.94 SW=105.00	S24.1
302	1200mm	106.55	SE=104.76 NE=104.68 NW=104.76 SW=104.76	S24.1
303	1200mm	106.76	SW=104.56 SE=104.50 SE=105.18	S24.1
304	1200mm	106.48	NW=104.12 SE=104.09 NW=104.84	S24.1
EX101	2400mm	105.88	SW=101.44 E=101.41 NW=101.86	S24.1

SANITARY MANHOLE TABLE				
STRUCTURE	STRUCTURE SIZE	T/G ELEV	INVERT	GRATE
100	1200mm	106.28	NW=104.49 SE=104.46	S24
101	1200mm	106.28	SE=104.66 NW=104.69	S24

CATCH BASIN TABLE				
STRUCTURE	STRUCTURE SIZE	T/G ELEV	INVERT	GRATE
CB 1	600x600mm	106.42	NE=104.74	S19
CB 2	600x600mm	106.32	NE=104.64	S19
CB 3	600x600mm	106.22	NE=104.54	S19
CB 4	600x600mm	106.15	NE=104.47	S19
CB 5	600x600mm	106.42	NE=104.74	S19
CB 6	600x600mm	106.32	NE=104.64	S19
CB 7	600x600mm	106.22	NE=104.54	S19
CB 8	600x600mm	105.95	NE=104.27	S19
CB 9	600x600mm	107.10	NE=105.42	S19
CB 10	600x600mm	106.64	NE=105.13	S19
CB 11	600x600mm	106.06	SE=104.38	S19
CB 12	600x600mm	107.10	SW=105.42	S19
CB 13	600x600mm	106.64	SW=104.96	S19
CB 14	600x600mm	106.06	SE=104.38	S19
CB 16	600x600mm	106.61	SW=105.41	S19
DICB 15	600x600mm	106.42	SW=104.67 NE=105.15	403.010
DICB 17	600x600mm	106.50	NE=104.75	403.010

- LEGEND**
- PROPERTY BOUNDARY
 - CATCH BASIN
 - STORM SEWER & MANHOLE
 - SANITARY SEWER & MANHOLE
 - WATERMAIN
 - ◆ HYDRANT
 - ⊕ VALVE & VALVE BOX
 - ⊕ SIAMESE CONNECTION
 - EXISTING CATCH BASIN
 - EXISTING STORM SEWER & MANHOLE
 - EXISTING SANITARY SEWER & MANHOLE
 - EXISTING WATERMAIN
 - ◆ EXISTING HYDRANT
 - ⊕ EXISTING VALVE & VALVE BOX
 - 100m NO-BUILD SETBACK
 - ▨ CLAY SEAL
 - ⊕ BOREHOLE
 - ⊕ CROSSING NUMBER
 - GALVANIZED CHAIN LINK FENCE (REFER TO SITE PLAN)
 - GALVANIZED W-BEAM GUARDRAIL (OPSD 912.130)
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 - ⊕ BH POST-MOUNTED BLOCK HEATER (REFER TO SITE PLAN)
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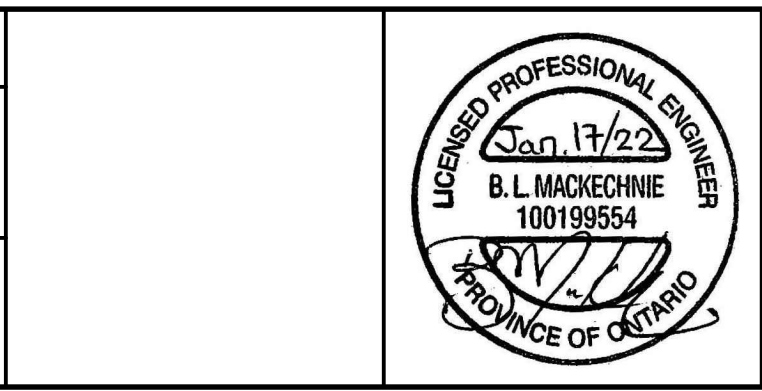
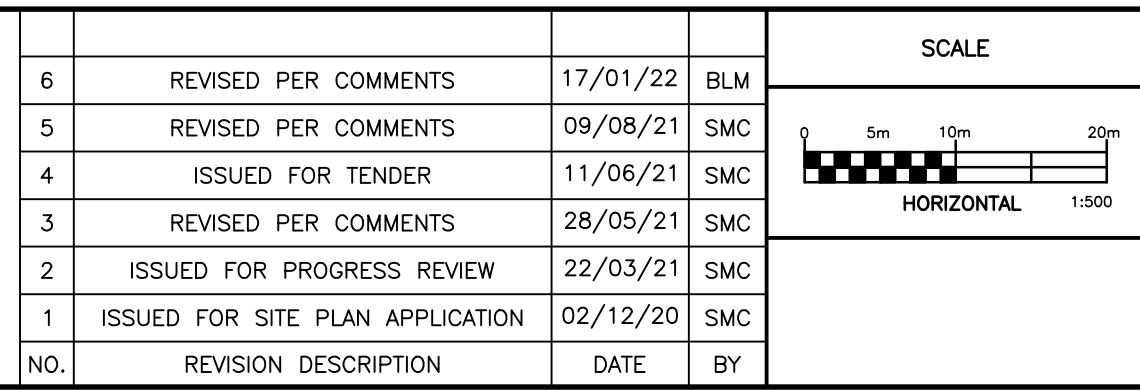
MATCHLINE
REFER TO DWG. 20027-S1

ICD DESIGN TABLE				
STRUCTURE	100 YEAR OUTFLOW (L/s)	100 YEAR HEAD (m)	ORIFICE DIAMETER (mm)	TYPE
CB 1	105	1.79	190.7	SLIDE
CB 2	60	1.79	144.1	SLIDE
CB 3	80	1.79	166.4	SLIDE
CB 4	55	1.82	137.5	SLIDE
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CB 14	25	1.74	93.8	SLIDE
DICB 15	20	1.63	85.3	SLIDE
DICB 17	20	1.63	85.3	SLIDE

Allison Hamlin
ALLISON HAMLIN
 MANAGER (A), DEVELOPMENT REVIEW WEST
 PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT
 DEPARTMENT, CITY OF OTTAWA

APPROVED
 By Allison Hamlin at 1:13 pm, May 05, 2022

NO.	REVISION DESCRIPTION	DATE	BY
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1	ISSUED FOR SITE PLAN APPLICATION	02/12/20	SMC



Robinson Land Development
 350 Palladium Drive
 Ottawa, ON K2V 1A8
 (613) 592-6060 roii.com

DESIGN: BLM
 CHECKED: SMC
 DRAWN: BLM
 CHECKED: SMC
 APPROVED: SMC

MARITIME-ONTARIO FREIGHT LINES LIMITED

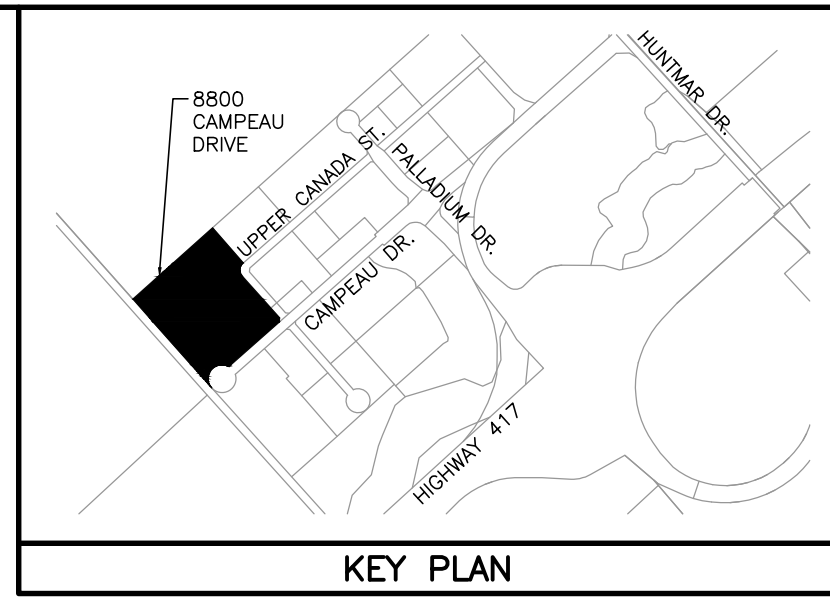
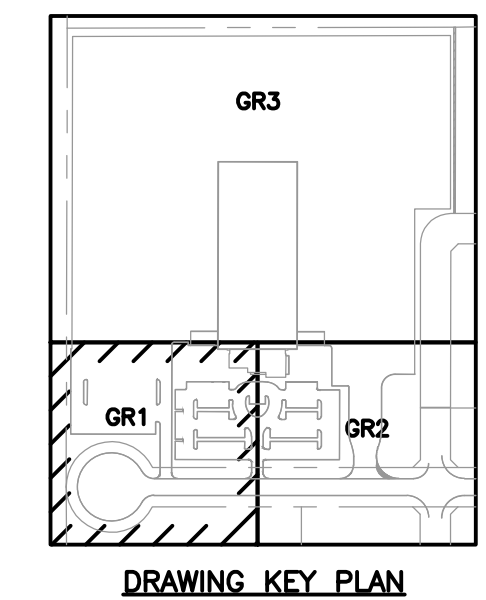
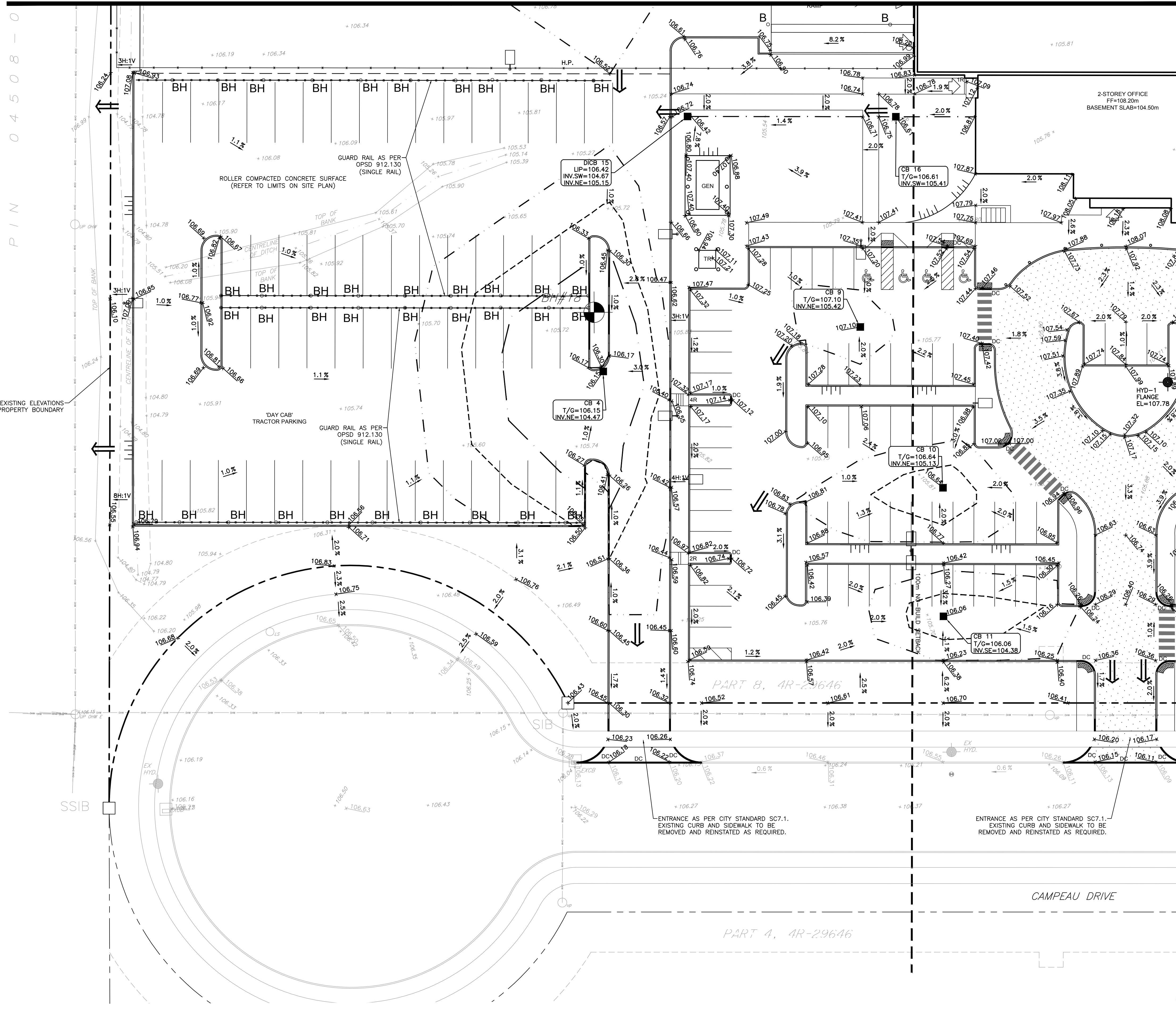
KANATA WEST BUSINESS PARK
 8800 CAMPEAU DRIVE, OTTAWA, ON

SERVICING PLAN

PROJECT No. 20027
 SURVEY STANTEC
 DATED JANUARY 2022
 DWG. No. 20027-S2

#18376

MATCHLINE
REFER TO DWG. 20027-GR3

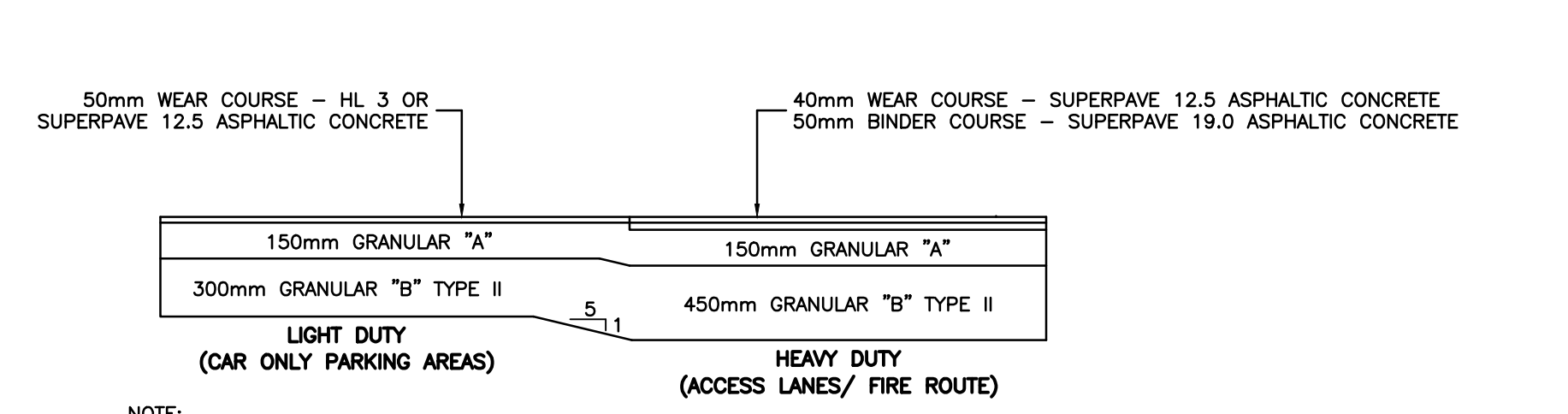
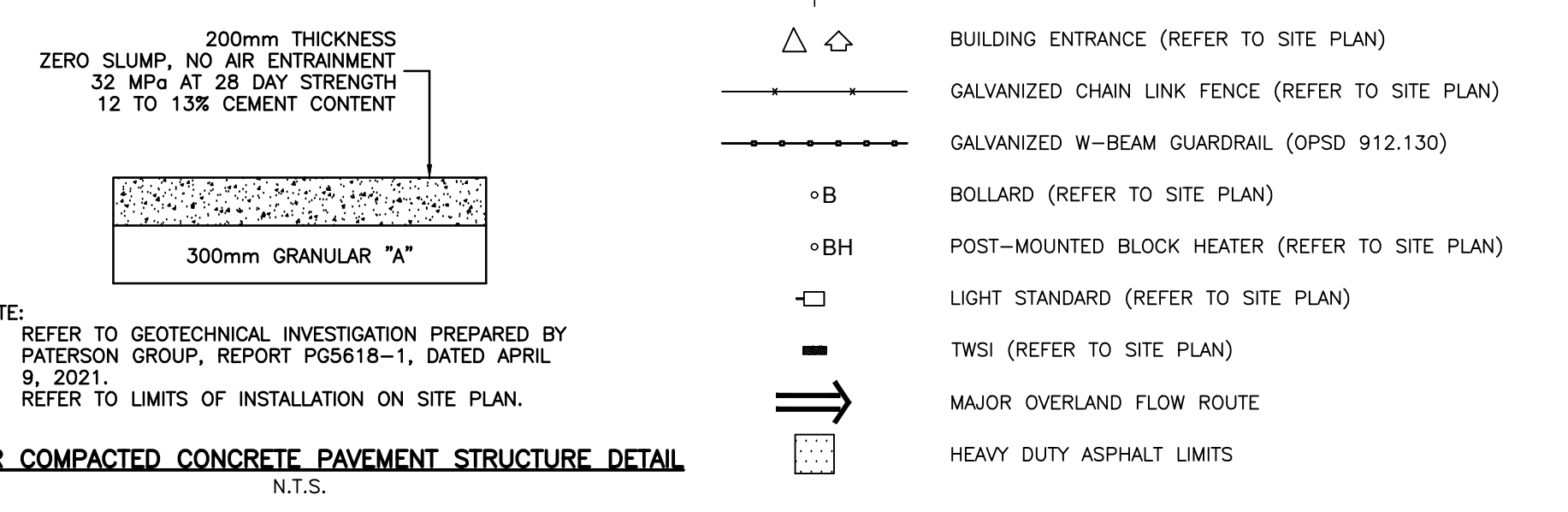


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 MANAGER (A), DEVELOPMENT REVIEW WEST
 PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT
 DEPARTMENT, CITY OF OTTAWA

APPROVED
 By Allison Hamlin at 1:13 pm, May 05, 2022

- LEGEND**
- + 106.00 EXISTING ELEVATION
 - x 107.00 PROPOSED GRADE
 - 2.0% PROPOSED DRAINAGE SLOPE AND DIRECTION
 - x 107.00 IBI GROUP DESIGN GRADE
 - PROPERTY BOUNDARY
 - CATCH BASIN
 - EXISTING CATCH BASIN
 - EXISTING HYDRANT
 - SWALE
 - H.P. HIGH POINT
 - DC DEPRESSED CURB
 - TERRACING (3H:1V MAX.)
 - 100m NO-BUILD SETBACK
 - 2 YEAR PONDING LIMIT
 - 5 YEAR PONDING LIMIT
 - 100 YEAR PONDING LIMIT
 - BOREHOLE
 - △ BUILDING ENTRANCE (REFER TO SITE PLAN)
 - GALVANIZED CHAIN LINK FENCE (REFER TO SITE PLAN)
 - GALVANIZED W-BEAM GUARDRAIL (OPSD 912.130)
 - B BOLLARD (REFER TO SITE PLAN)
 - BH POST-MOUNTED BLOCK HEATER (REFER TO SITE PLAN)
 - LIGHT STANDARD (REFER TO SITE PLAN)
 - TWSI (REFER TO SITE PLAN)
 - MAJOR OVERLAND FLOW ROUTE
 - HEAVY DUTY ASPHALT LIMITS

MATCHLINE
REFER TO DWG. 20027-GR2



NOTE:
 1. REFER TO GEOTECHNICAL INVESTIGATION PREPARED BY PATERSON GROUP, REPORT PG5618-1, DATED APRIL 9, 2021.
 2. REFER TO LIMITS OF INSTALLATION ON SITE PLAN.

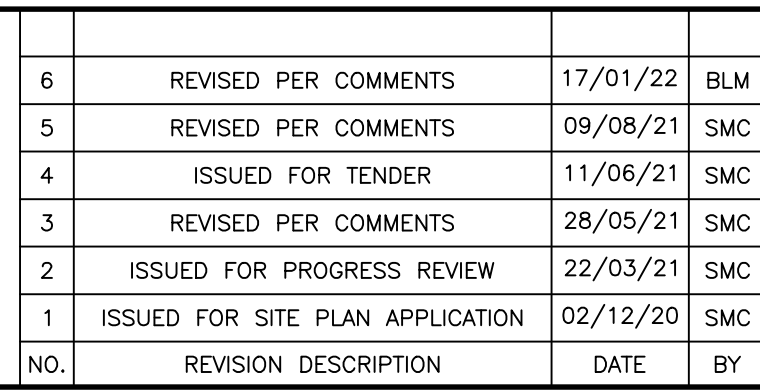
SURFACE STORAGE AREAS

LOCATION	2 YEAR			5 YEAR			100 YEAR		
	STORAGE VOLUME (m³)	PONDING DEPTH (m)	PONDING ELEVATION (m)	STORAGE VOLUME (m³)	PONDING DEPTH (m)	PONDING ELEVATION (m)	STORAGE VOLUME (m³)	PONDING DEPTH (m)	PONDING ELEVATION (m)
CB 4	15.5	0.15	106.30	30.3	0.19	106.34	122.2	0.29	106.44
CB 9	N/A	N/A	N/A	N/A	N/A	N/A	3.7	0.10	107.20
CB 10	N/A	N/A	N/A	1.8	0.09	106.73	16.6	0.19	106.83
CB 11	N/A	N/A	N/A	2.1	0.09	106.15	15.7	0.18	106.24
DICB 15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CB 16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NOTES

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.

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SCALE
 0 2m 4m 10m
 HORIZONTAL 1:250



Robinson
 Land Development
 350 Palladium Drive
 Ottawa, ON K2V 1A8
 (613) 592-6060 roii.com

DESIGN

DESIGNED	BLM
CHECKED	SMC
DRAWN	BLM
CHECKED	SMC
APPROVED	SMC

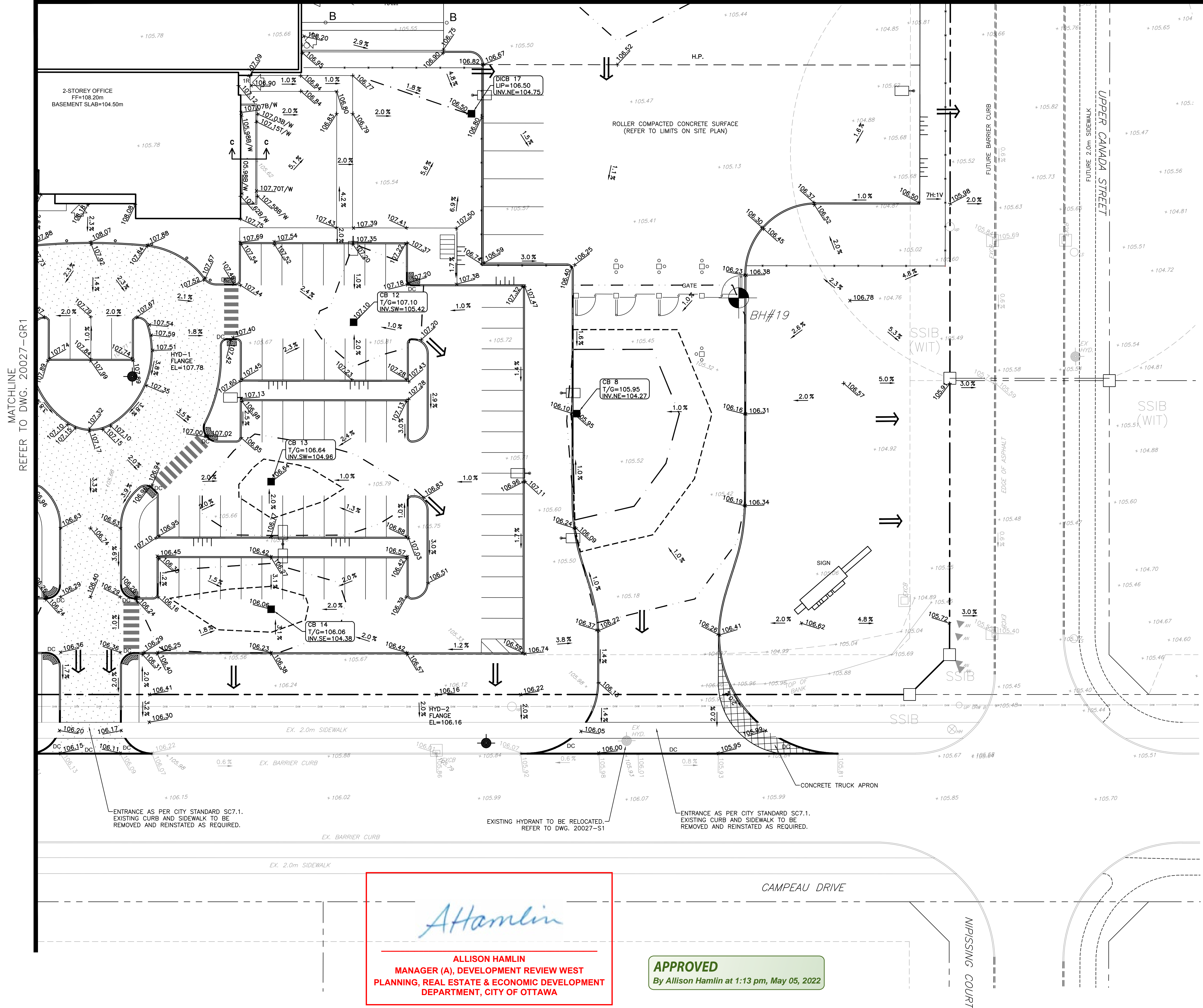
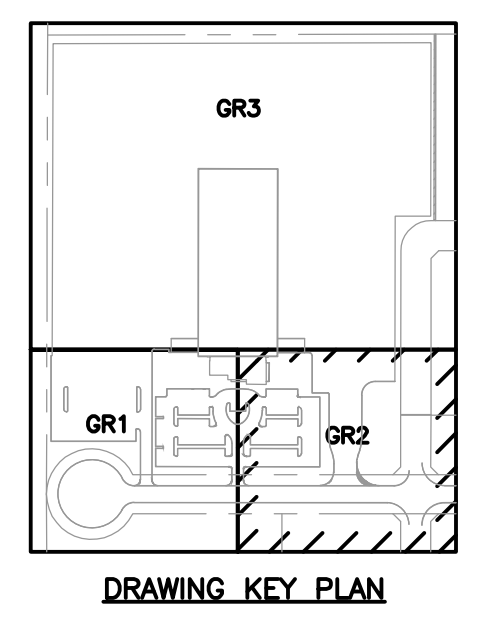
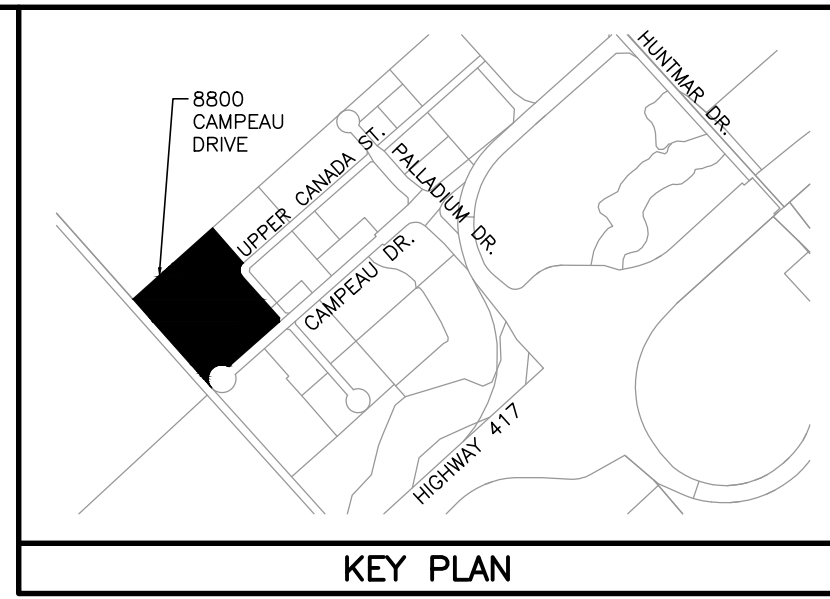
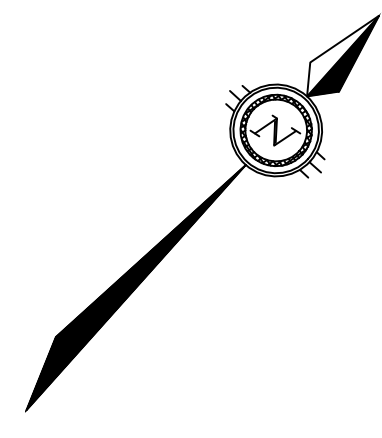
MARITIME-ONTARIO
FREIGHT LINES LIMITED
 KANATA WEST BUSINESS PARK
 8800 CAMPEAU DRIVE, OTTAWA, ON

GRADING PLAN

PROJECT No. 20027
SURVEY STANTEC
DATED JANUARY 2022
DWG. No. 20027-GR1

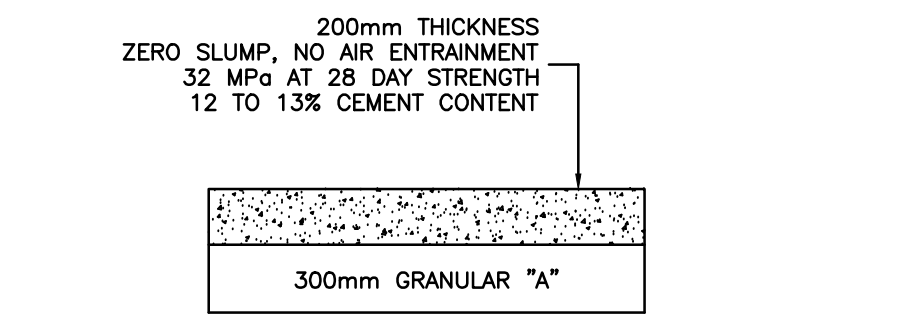
#18376

MATCHLINE
REFER TO DWG. 20027-GR3



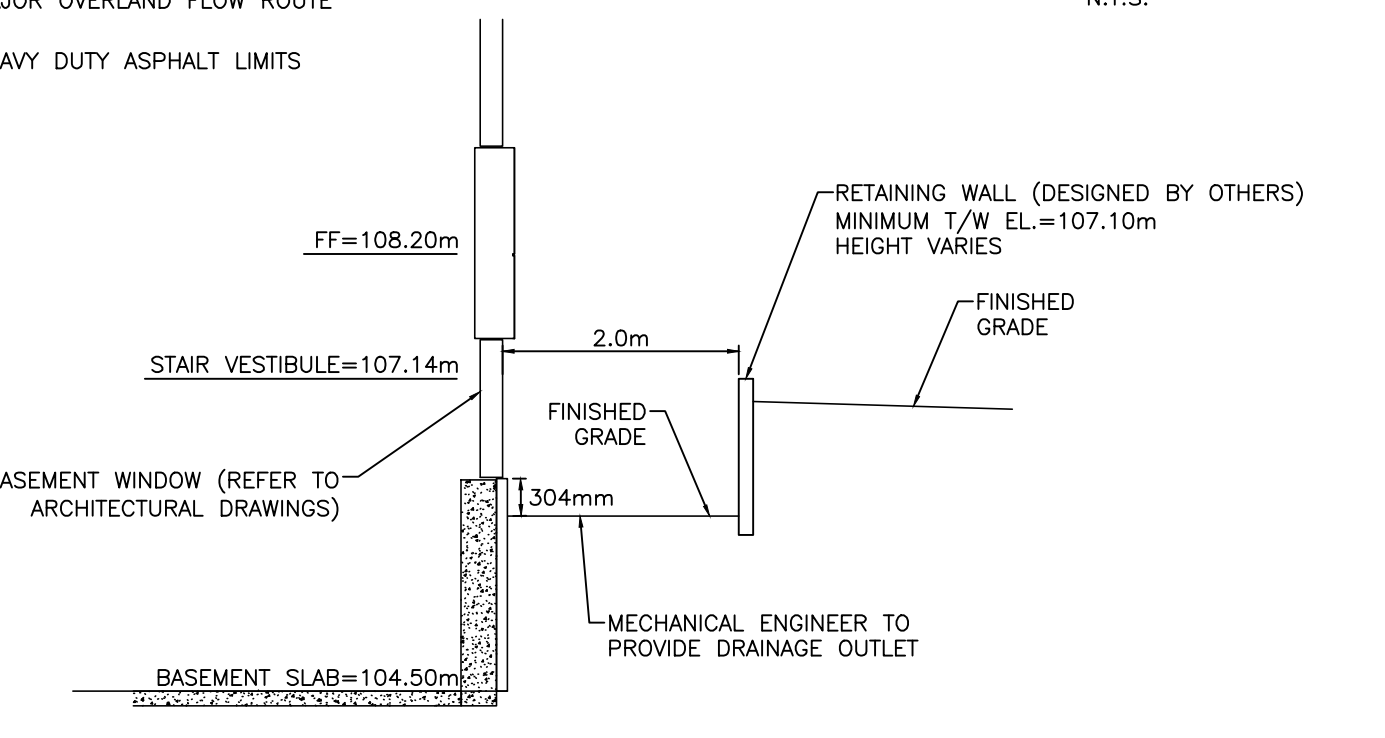
LEGEND

- 106.00 EXISTING ELEVATION
- 107.00 PROPOSED GRADE
- 2.0% PROPOSED DRAINAGE SLOPE AND DIRECTION
- 107.00 IBI GROUP DESIGN GRADE
- PROPERTY BOUNDARY
- CATCH BASIN
- EXISTING CATCH BASIN
- EXISTING HYDRANT
- SWALE
- H.P. HIGH POINT
- DC DEPRESSED CURB
- TERRACING (3H:1V MAX.)
- 100m NO-BUILD SETBACK
- 2 YEAR PONDING LIMIT
- 5 YEAR PONDING LIMIT
- 100 YEAR PONDING LIMIT
- BOREHOLE
- △ BUILDING ENTRANCE (REFER TO SITE PLAN)
- GALVANIZED CHAIN LINK FENCE (REFER TO SITE PLAN)
- GALVANIZED W-BEAM GUARDRAIL (OPSD 912.130)
- BOLLARD (REFER TO SITE PLAN)
- POST-MOUNTED BLOCK HEATER (REFER TO SITE PLAN)
- LIGHT STANDARD (REFER TO SITE PLAN)
- TWSI (REFER TO SITE PLAN)
- MAJOR OVERLAND FLOW ROUTE
- HEAVY DUTY ASPHALT LIMITS



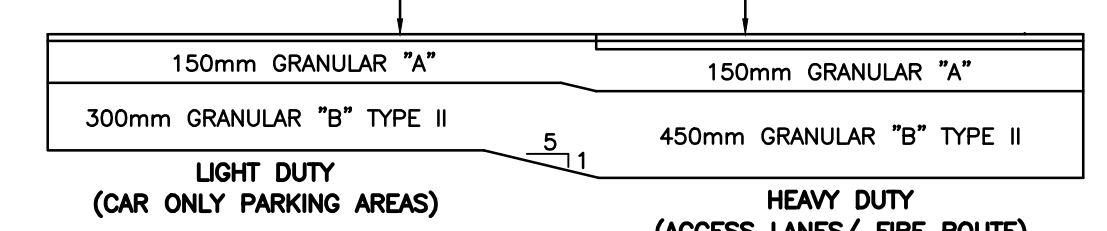
NOTE:
1. REFER TO GEOTECHNICAL INVESTIGATION PREPARED BY PATERSON GROUP, REPORT PG5618-1, DATED APRIL 9, 2021.
2. REFER TO LIMITS OF INSTALLATION ON SITE PLAN.

ROLLER COMPACTED CONCRETE PAVEMENT STRUCTURE DETAIL
N.T.S.



WINDOW WELL SECTION C-C
N.T.S.

50mm WEAR COURSE - HL 3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE
40mm WEAR COURSE - SUPERPAVE 12.5 ASPHALTIC CONCRETE
50mm BINDER COURSE - SUPERPAVE 19.0 ASPHALTIC CONCRETE



ASPHALT PAVEMENT STRUCTURE DETAIL
N.T.S.

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2. REFER TO LIMITS OF INSTALLATION ON SITE PLAN.

LOCATION	2 YEAR			5 YEAR			100 YEAR		
	STORAGE VOLUME (m³)	PONDING DEPTH (m)	PONDING ELEVATION (m)	STORAGE VOLUME (m³)	PONDING DEPTH (m)	PONDING ELEVATION (m)	STORAGE VOLUME (m³)	PONDING DEPTH (m)	PONDING ELEVATION (m)
CB 8	9.9	0.13	106.08	22.3	0.17	106.12	78.1	0.26	106.21
CB 12	N/A	N/A	N/A	N/A	N/A	N/A	4.6	0.10	107.20
CB 13	N/A	N/A	N/A	1.8	0.09	106.73	16.6	0.19	106.83
CB 14	N/A	N/A	N/A	2.1	0.09	106.15	15.7	0.18	106.24
DICB 17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Allison Hamlin
ALLISON HAMLIN
MANAGER (A), DEVELOPMENT REVIEW WEST
PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT
DEPARTMENT, CITY OF OTTAWA

APPROVED
By Allison Hamlin at 1:13 pm, May 05, 2022



Robinson
Land Development

350 Palladium Drive
Ottawa, ON K2V 1A8
(613) 592-6060 roii.com

DESIGN: BLM
CHECKED: SMC
DRAWN: BLM
CHECKED: SMC
APPROVED: SMC

MARITIME-ONTARIO
FREIGHT LINES LIMITED

KANATA WEST BUSINESS PARK
8800 CAMPEAU DRIVE, OTTAWA, ON

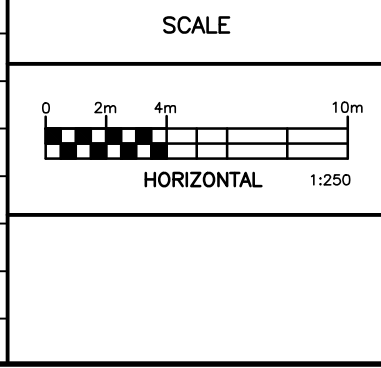
GRADING PLAN

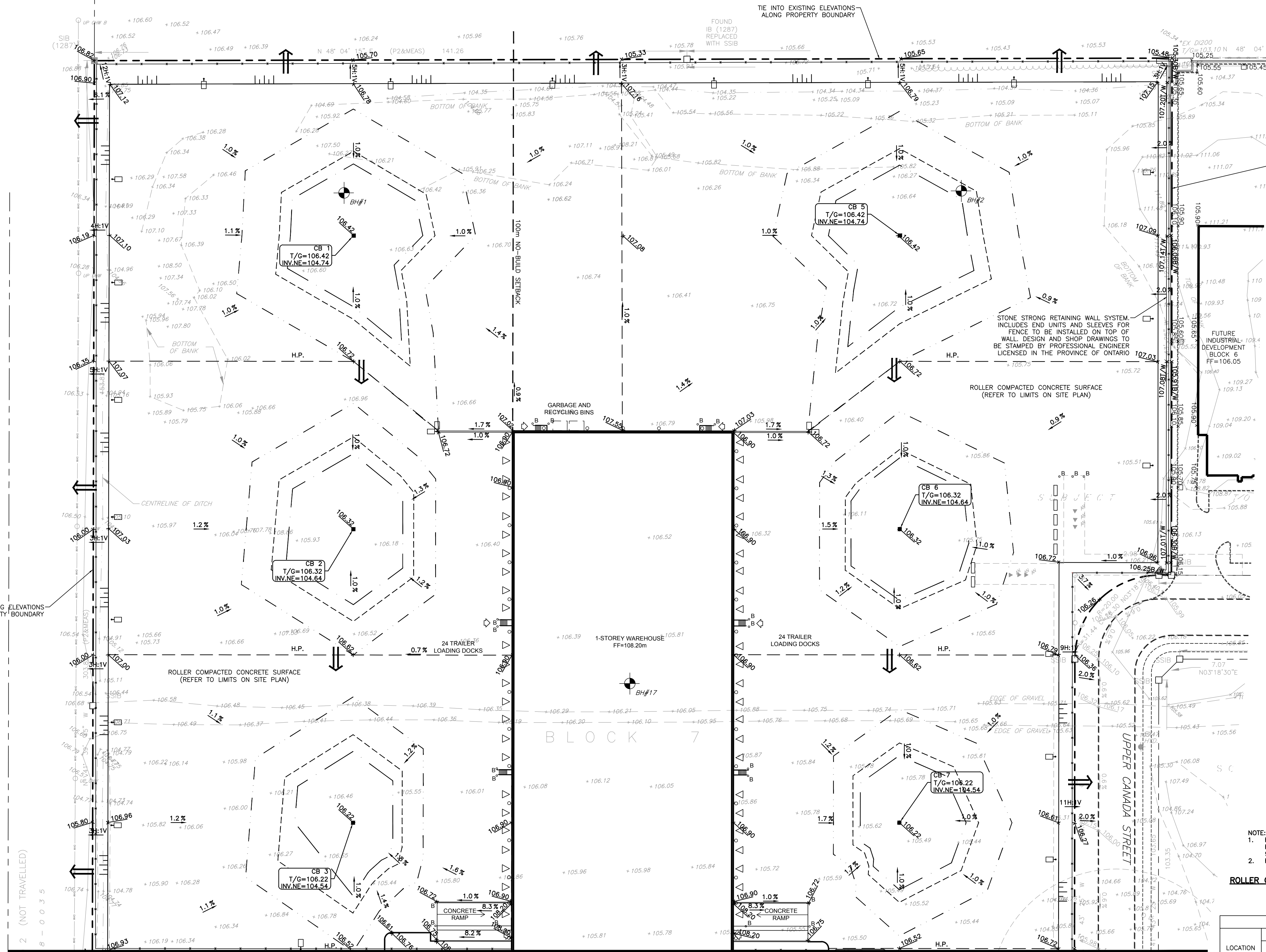
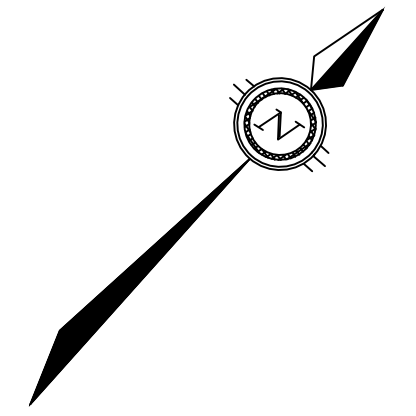
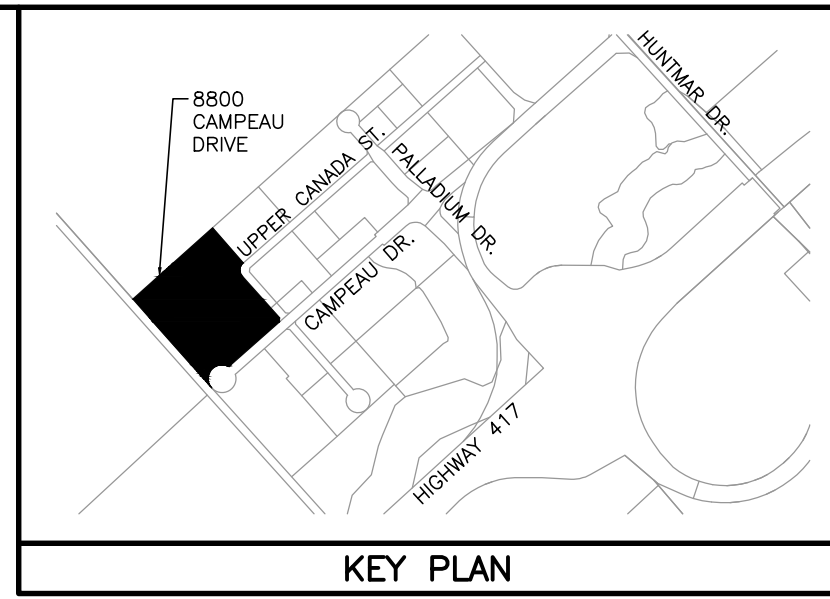
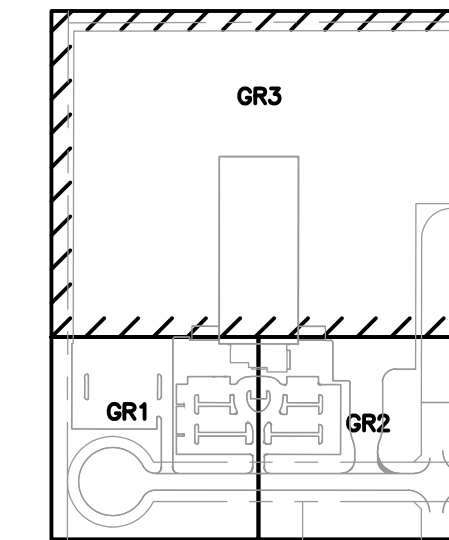
PROJECT No. 20027
SURVEY STANTEC
DATED JANUARY 2022
DWG. No. 20027-GR2

NOTES

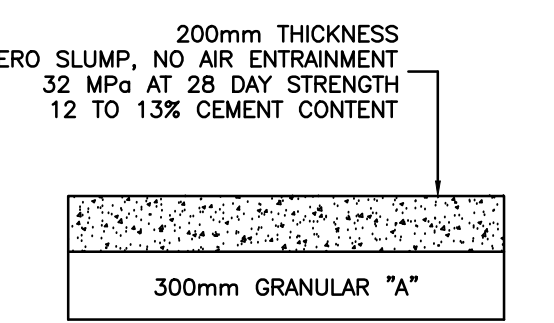
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NO.	REVISION DESCRIPTION	DATE	BY
6	REVISED PER COMMENTS	17/01/22	BLM
5	REVISED PER COMMENTS	09/08/21	SMC
4	ISSUED FOR TENDER	11/06/21	SMC
3	REVISED PER COMMENTS	28/05/21	SMC
2	ISSUED FOR PROGRESS REVIEW	22/03/21	SMC
1	ISSUED FOR SITE PLAN APPLICATION	02/12/20	SMC





- LEGEND**
- + 106.00 EXISTING ELEVATION
 - x 107.00 PROPOSED GRADE
 - 2.0% PROPOSED DRAINAGE SLOPE AND DIRECTION
 - x 107.00 IBI GROUP DESIGN GRADE
 - PROPERTY BOUNDARY
 - CATCH BASIN
 - EXISTING CATCH BASIN
 - EXISTING HYDRANT
 - SWALE
 - H.P. HIGH POINT
 - DC DEPRESSED CURB
 - TERRACING (3H:1V MAX.)
 - RETAINING WALL
 - 100m NO-BUILD SETBACK
 - 2 YEAR PONDING LIMIT
 - 5 YEAR PONDING LIMIT
 - 100 YEAR PONDING LIMIT
 - ⊕ BOREHOLE
 - △ BUILDING ENTRANCE (REFER TO SITE PLAN)
 - GALVANIZED CHAIN LINK FENCE (REFER TO SITE PLAN)
 - GALVANIZED W-BEAM GUARDRAIL (OPSD 912.130)
 - B BOLLARD (REFER TO SITE PLAN)
 - BH POST-MOUNTED BLOCK HEATER (REFER TO SITE PLAN)
 - LIGHT STANDARD (REFER TO SITE PLAN)
 - TWSI (REFER TO SITE PLAN)
 - MAJOR OVERLAND FLOW ROUTE
 - HEAVY DUTY ASPHALT LIMITS



- NOTE:**
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 - REFER TO LIMITS OF INSTALLATION ON SITE PLAN.

Allison Hamlin

ALLISON HAMLIN
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PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT
DEPARTMENT, CITY OF OTTAWA

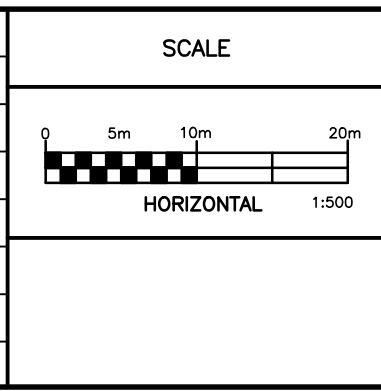
APPROVED
By Allison Hamlin at 1:13 pm, May 05, 2022

LOCATION	2 YEAR SURFACE STORAGE AREAS			5 YEAR SURFACE STORAGE AREAS			100 YEAR SURFACE STORAGE AREAS		
	STORAGE VOLUME (m³)	PONDING DEPTH (m)	PONDING ELEVATION (m)	STORAGE VOLUME (m³)	PONDING DEPTH (m)	PONDING ELEVATION (m)	STORAGE VOLUME (m³)	PONDING DEPTH (m)	PONDING ELEVATION (m)
CB 1	46.9	0.17	106.59	78.6	0.20	106.62	265.3	0.30	106.72
CB 2	43.4	0.18	106.50	79.2	0.22	106.54	200.8	0.30	106.62
CB 3	29.9	0.17	106.39	63.4	0.21	106.43	184.7	0.30	106.52
CB 5	49.1	0.17	106.59	92.5	0.21	106.63	269.7	0.30	106.72
CB 6	40.3	0.17	106.49	65.2	0.19	106.51	180.2	0.28	106.60
CB 7	30.4	0.16	106.38	50.9	0.19	106.41	146.1	0.27	106.49

NOTES

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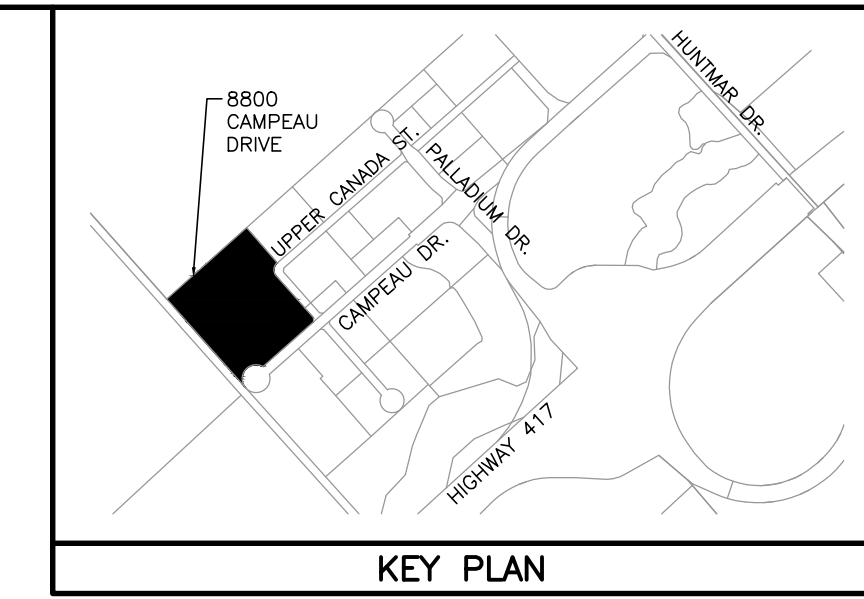
DESIGN	BLM
CHECKED	SMC
DRAWN	BLM
CHECKED	SMC
APPROVED	SMC

MARITIME-ONTARIO FREIGHT LINES LIMITED

KANATA WEST BUSINESS PARK
8800 CAMPEAU DRIVE, OTTAWA, ON

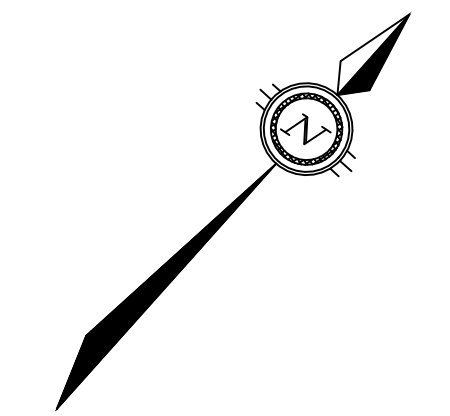
GRADING PLAN

PROJECT No.	20027
SURVEY	STANTEC
DATED	JANUARY 2022
DWG. No.	20027-GR3

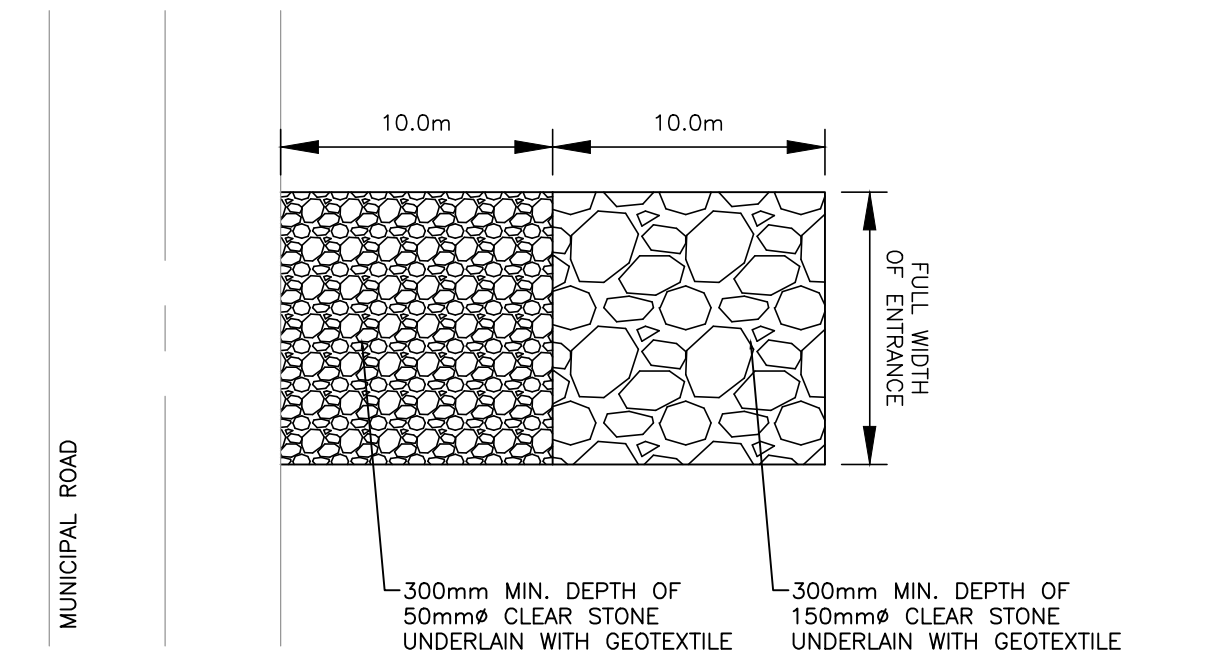
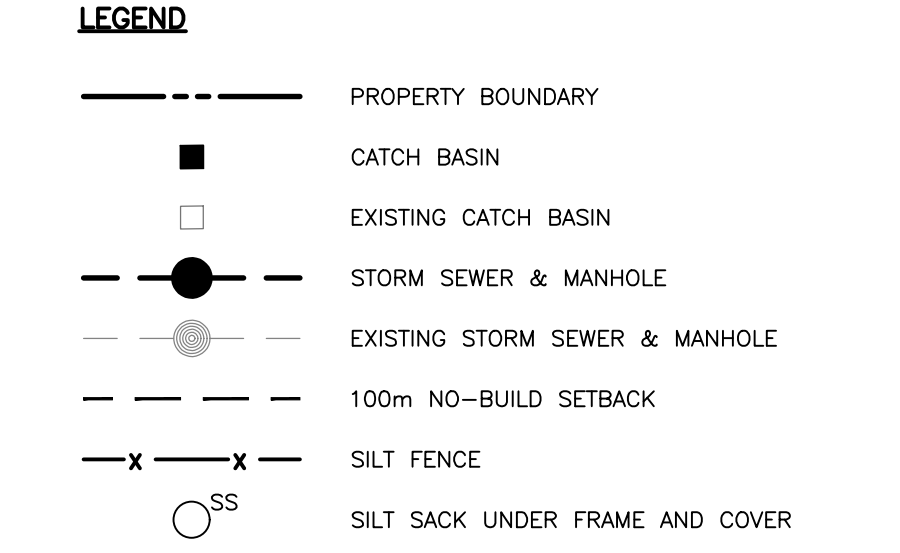


Allan Hamlin

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 MANAGER (A), DEVELOPMENT REVIEW WEST
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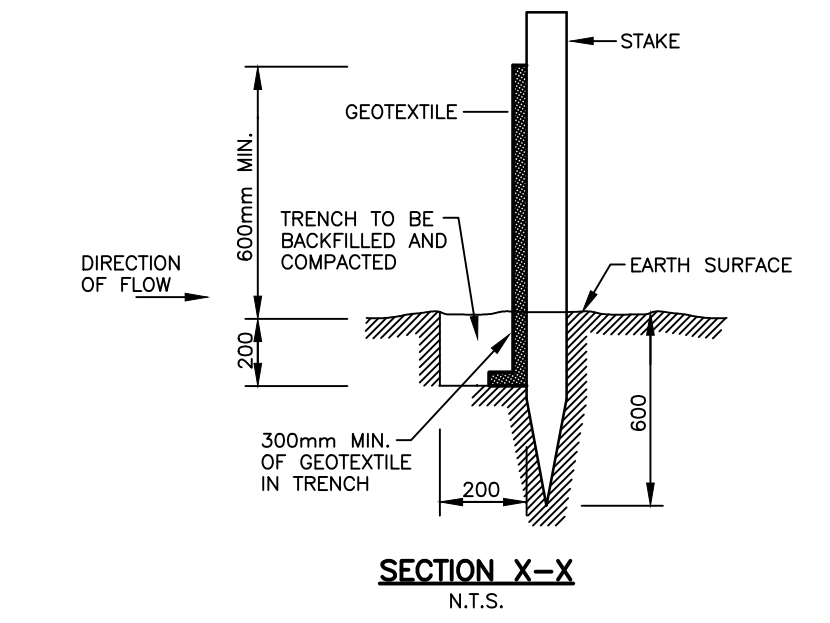
APPROVED
 By Allison Hamlin at 1:14 pm, May 05, 2022



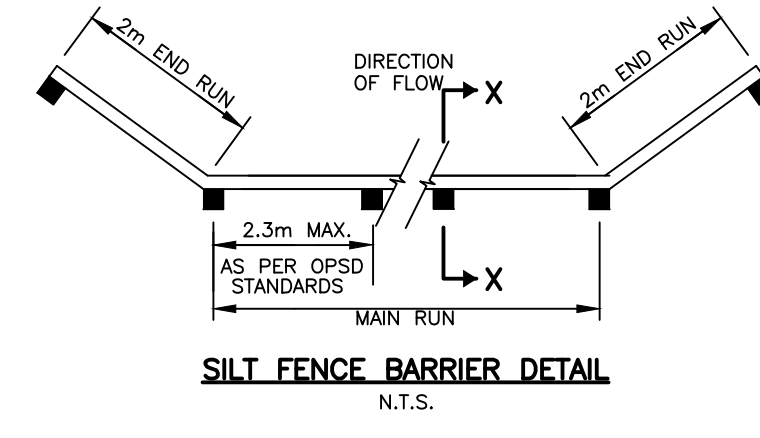
- NOTES:**
- MUD MAT TO BE UNDERLAIN WITH A GEOTEXTILE FABRIC.
 - SEDIMENT SHALL BE CLEANED FROM MUNICIPAL RIGHT-OF-WAYS AS REQUIRED.
 - STORM INLETS IN CLOSE VICINITY TO MUD MAT SHALL BE PROTECTED WITH INLET CONTROL MEASURES.

MUD MAT DETAIL
N.T.S.

- NOTES:**
- THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE ULTIMATE 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.
 - LIMIT THE EXTENT OF EXPOSED SOILS AT ANY GIVEN TIME.
 - EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL VEGETATION HAS BEEN RE-ESTABLISHED IN ALL DISTURBED AREAS. RE-VEGETATE DISTURBED AREAS IN ACCORDANCE WITH APPROVED LANDSCAPE PLAN AS SOON AS POSSIBLE.
 - STOCKPILE SOIL AWAY (15 METRES OR GREATER) FROM WATERCOURSES, DRAINAGE FEATURES AND TOP OF STEEP SLOPES.
 - SILT SACKS ARE TO BE PLACED UNDERNEATH THE FRAME AND COVER OF ALL PROPOSED AND EXISTING CATCH BASINS AND OPEN COVER STORM MANHOLES UNTIL CONSTRUCTION IS COMPLETED.
 - A SILT FENCE BARRIER SHALL BE INSTALLED AS PER OPSD 219.1100 WHERE INDICATED AND MAINTAINED AS REQUIRED.
 - DURING ACTIVE CONSTRUCTION PERIODS, VISUAL INSPECTIONS SHALL BE UNDERTAKEN ON A WEEKLY BASIS AND AFTER MAJOR STORM EVENTS (>25mm RAIN IN 24 HOUR PERIOD) ON SEDIMENT CONTROL BARRIERS AND ANY DAMAGE REPAIRED IMMEDIATELY.
 - EROSION AND SEDIMENT CONTROL BARRIERS SHALL ALSO BE ASSESSED (AND REPAIRED AS REQUIRED) FOLLOWING SIGNIFICANT SNOWMELT EVENTS.
 - VISUAL INSPECTIONS SHALL ALSO BE UNDERTAKEN IN ANTICIPATION OF LARGE STORM EVENTS (OR A SERIES OF RAINFALL AND/OR SNOWMELT DAYS) THAT COULD POTENTIALLY YIELD SIGNIFICANT RUNOFF VOLUMES.
 - CARE SHALL BE TAKEN TO PREVENT DAMAGE TO EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION OPERATIONS.
 - IN SOME CASES, BARRIERS MAY BE REMOVED TEMPORARILY TO ACCOMMODATE THE CONSTRUCTION OPERATIONS. THE AFFECTED BARRIERS SHALL BE REINSTATED IMMEDIATELY AFTER CONSTRUCTION OPERATIONS ARE COMPLETED.
 - EROSION AND SEDIMENT CONTROL MEASURES SHALL BE ADJUSTED AS REQUIRED AS THE SITE BECOMES DEVELOPED.
 - SEDIMENT CONTROL DEVICES SHALL BE CLEANED OF ACCUMULATED SEDIMENTATION AS REQUIRED AND REPLACED AS NECESSARY.
 - DURING THE COURSE OF CONSTRUCTION, IF THE ENGINEER BELIEVES THAT ADDITIONAL PREVENTION METHODS ARE REQUIRED TO CONTROL EROSION AND SEDIMENTATION, THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL MEASURES, AS REQUIRED, TO THE SATISFACTION OF THE ENGINEER.
 - CONSTRUCTION AND MAINTENANCE REQUIREMENTS FOR EROSION AND SEDIMENT CONTROLS ARE TO COMPLY WITH OPSD 805.
 - MUD MATS SHALL BE INSTALLED AT ALL CONSTRUCTION ENTRANCES.



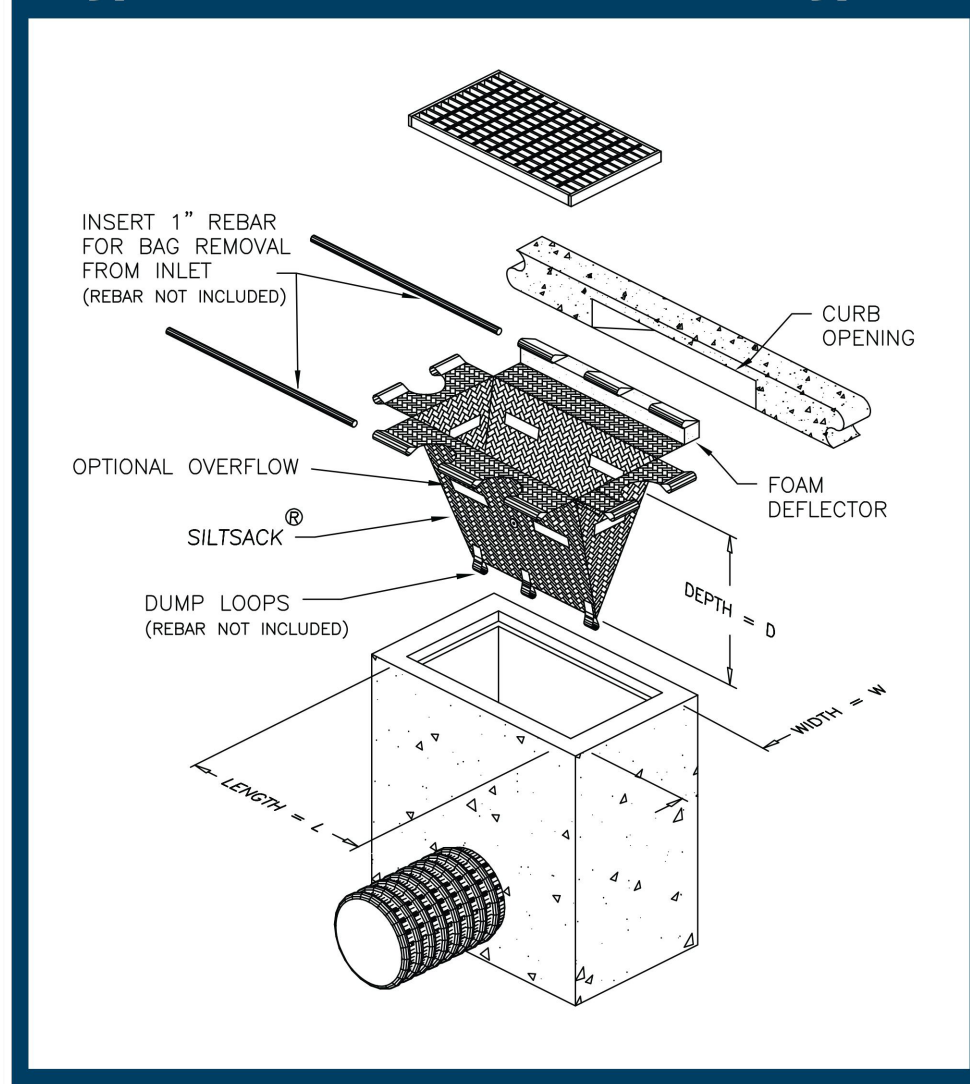
SECTION X-X
N.T.S.



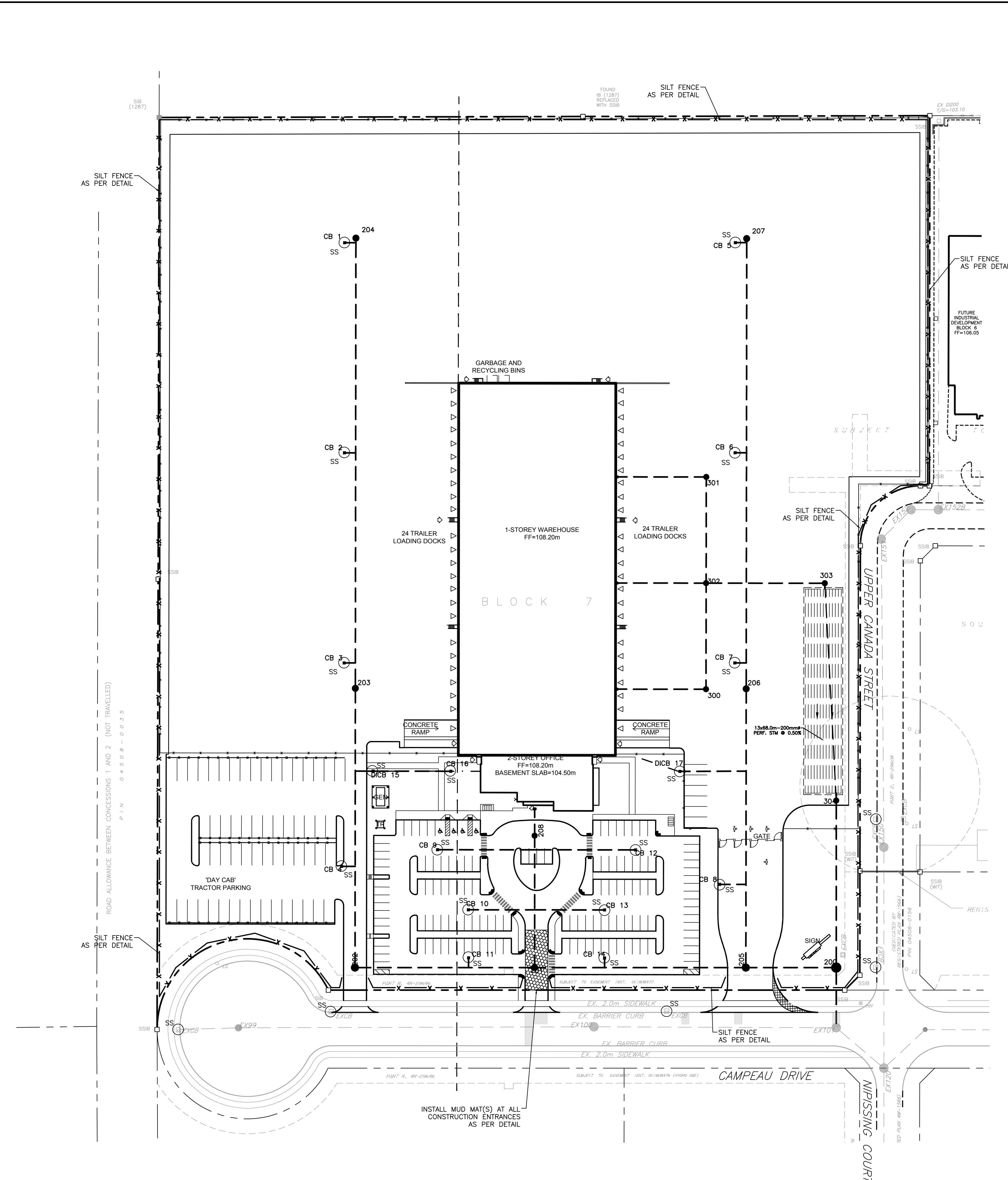
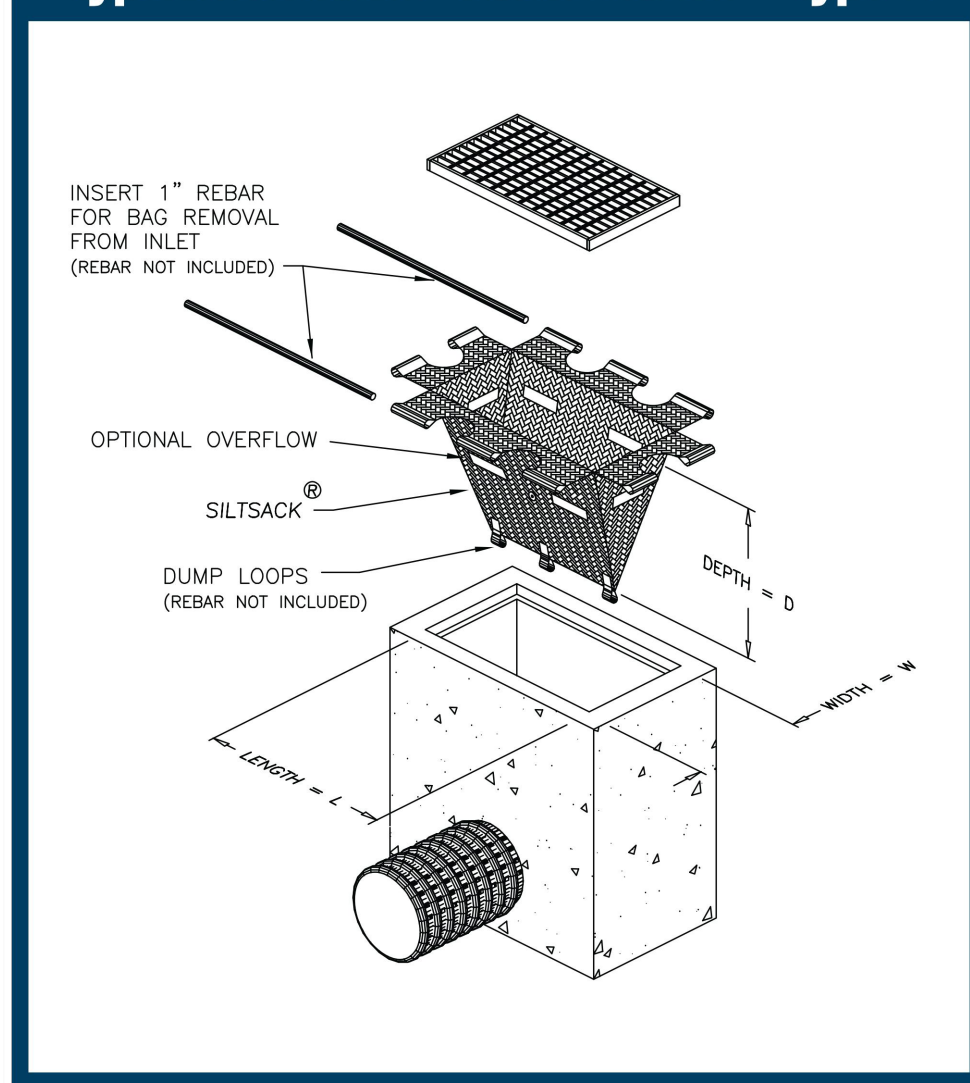
SILT FENCE BARRIER DETAIL
N.T.S.

- INFILTRATION GALLERY NOTES:**
- INFILTRATION GALLERY SHALL BE CONSTRUCTED TOWARDS THE END OF THE DEVELOPMENT CONSTRUCTION PERIOD IN ORDER TO NOT CONTAMINATE THE PRACTICE.
 - SMEARING OF THE NATIVE MATERIAL AT THE INTERFACE WITH THE GALLERY FLOOR MUST BE AVOIDED AND/OR CORRECTED BY RAKING OR ROTO-TILLING.
 - COMPACTION OF THE GALLERY BOTTOM MUST BE MINIMIZED.

Typical Siltsack® Construction - Type A



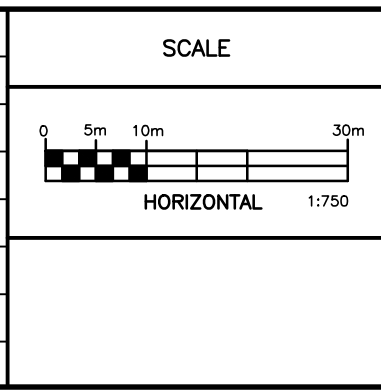
Typical Siltsack® Construction - Type B



NOTES

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(613) 592-6060 roii.com

DESIGN	BLM
CHECKED	SMC
DRAWN	BLM
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APPROVED	SMC

MARITIME-ONTARIO
FREIGHT LINES LIMITED

KANATA WEST BUSINESS PARK
8800 CAMPEAU DRIVE, OTTAWA, ON

EROSION AND SEDIMENT
CONTROL PLAN

PROJECT No.	20027
SURVEY	STANTEC
DATED	JANUARY 2022
DWG. No.	20027-ESC1

GENERAL NOTES:

- ALL WORKS AND MATERIALS SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA AND ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS), AS AMENDED BY THE CITY OF OTTAWA.
- THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL EXISTING UTILITIES WITHIN THE SITE AND ADJACENT WORK AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY SERVICES OR UTILITIES DISTURBED DURING CONSTRUCTION, TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.
- ALL DIMENSIONS AND ELEVATIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
- DESIGN ELEVATIONS GIVEN ARE TO BE ADHERED TO WITH NO CHANGES WITHOUT PRIOR WRITTEN APPROVAL BY ROBINSON LAND DEVELOPMENT.
- ANY AREAS BEYOND THE LIMIT OF THE SITE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION AT THE CONTRACTOR'S EXPENSE.
- RELOCATION OF EXISTING SERVICES AND/OR UTILITIES SHALL BE AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE "OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS". THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONSTRUCTOR AS DEFINED IN THE ACT.
- ALL CONSTRUCTION SIGNAGE MUST CONFORM TO THE M.T.O. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST AMENDMENT).
- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- THE SUPPORT OF ALL UTILITIES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR ADDITIONAL BEDDING OR ADDITIONAL STRENGTH PIPE IF THE MAXIMUM TRENCH WIDTH, AS SPECIFIED BY OPSD, IS EXCEEDED.
- ALL NECESSARY CLEARING AND GRUBBING SHALL BE COMPLETED BY THE CONTRACTOR, REVIEW WITH CONTRACT ADMINISTRATOR AND THE CITY OF OTTAWA PRIOR TO AND TREE CUTTING.
- REFER TO GEOTECHNICAL INVESTIGATION PREPARED BY PATTERSON GROUP, REPORT NO. P05618-1, DATED MAY 11, 2021.
- THE CONTRACTOR IS RESPONSIBLE FOR AND SHALL PROVIDE FOR DEWATERING, SUPPORT AND PROTECTION OF EXCAVATIONS AND TRENCHING AS WELL AS RELEASE OF ANY PUMPED GROUNDWATER IN A CONTROLLED AND APPROVED MANNER.
- DO NOT CONSTRUCT USING DRAWINGS THAT ARE NOT MARKED "ISSUED FOR CONSTRUCTION".
- CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION OF SEWER TRENCHES.
- CLAY SEALS SHALL BE INSTALLED WITHIN SEWER TRENCHES IN ACCORDANCE WITH CITY STANDARD S8.

STORM SEWERS:

- ALL REINFORCED CONCRETE STORM SEWER PIPE SHALL BE IN ACCORDANCE WITH CSA A257.2 (LATEST AMENDMENT). ALL NON-REINFORCED CONCRETE STORM SEWER PIPE SHALL BE IN ACCORDANCE WITH CSA A257.1 (LATEST AMENDMENT). PIPE SHALL BE JOINTED WITH STD. RUBBER GASKETS AS PER CSA A257.3 (LATEST AMENDMENT).
- ALL STORM SEWER TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. S6 AND S7 CLASS 'B' UNLESS OTHERWISE SPECIFIED. BEDDING AND COVER MATERIAL SHALL BE SPECIFIED BY PROJECT GEOTECHNICAL ENGINEER.
- ALL PVC STORM SEWERS ARE TO BE SDR 35 APPROVED PER C.S.A. B182.2 OR LATEST AMENDMENT, UNLESS OTHERWISE SPECIFIED.
- STORM MANHOLE FRAME AND COVERS SHALL BE AS PER CITY OF OTTAWA STD. S24.1.
- STORM SEWER MANHOLES SERVING SEWERS LESS THAN 900mm SHALL BE BENCHED AS PER OPSD 701.021.
- STORM SEWER MANHOLES SERVING SEWERS 900mm AND OVER USE BENCHING IN ACCORDANCE WITH OPSD 701.021.
- THE STORM SEWER CLASSES HAVE BEEN DESIGNED BASED ON BEDDING CONDITIONS SPECIFIED ABOVE. WHERE THE SPECIFIED TRENCH WIDTH IS EXCEEDED, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ADDITIONAL BEDDING, A DIFFERENT TYPE OF BEDDING OR A HIGHER PIPE STRENGTH AT HIS OWN EXPENSE AND SHALL ALSO BE RESPONSIBLE FOR EXTRA TEMPORARY AND/OR PERMANENT REPAIRS MADE NECESSARY BY THE WIDENED TRENCH.

SANITARY SEWERS:

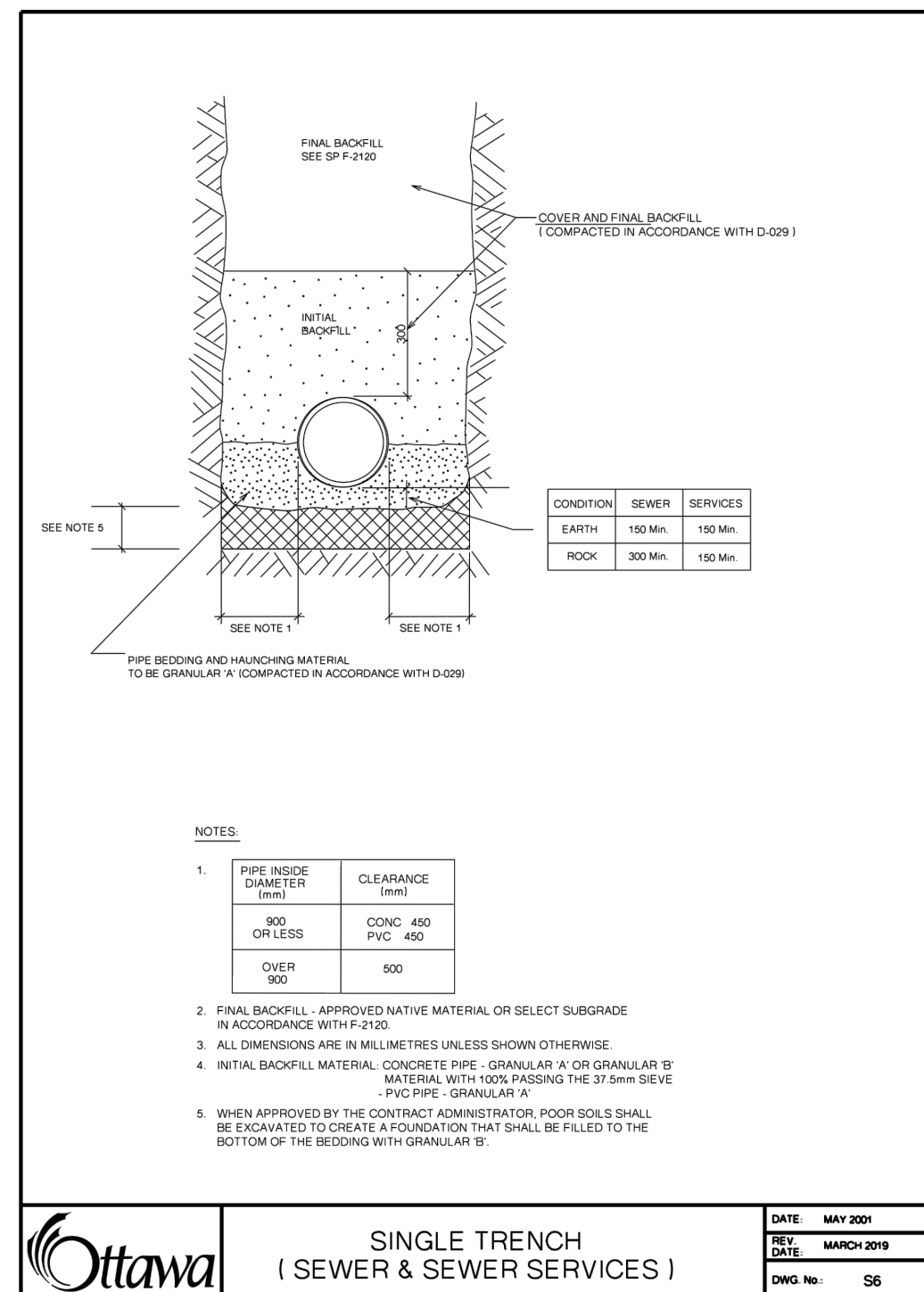
- ALL SANITARY SEWERS SHALL BE PVC SDR 35, IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
- SANITARY SEWER TRENCH AND BEDDING SHALL BE AS PER CITY OF OTTAWA STD. S6 AND S7, CLASS 'B' BEDDING UNLESS OTHERWISE NOTED.
- ALL SANITARY SEWERS ARE TO BE EQUIPPED WITH APPROVED BACKWATER VALVES.
- SANITARY MANHOLE FRAME AND COVERS SHALL BE AS PER CITY OF OTTAWA STD. S24.
- SANITARY SEWER MANHOLES SHALL BE BENCHED AS PER OPSD 701.021.
- SANITARY PRE-CAST MANHOLE SHALL BE CONSTRUCTED WITH A HIGHER PERCENTAGE OF SILICA FUME IN THE CONCRETE TO MAKE IT MORE DENSE AND LESS SUSCEPTIBLE TO CORROSION OR PINHOLE LEAKS.
- FOR SANITARY MANHOLES, DEPENDING ON THE ELEVATION OF THE GROUNDWATER TABLE, AND BASED ON THE RECOMMENDATION OF THE PROJECT GEOTECHNICAL CONSULTANT, CRACK SEALS, OR A SIMILAR PRODUCT, SHALL BE INSTALLED IN THE PRE-CAST MANHOLE SECTION TO JUST BELOW THE MANHOLE FRAME TO PREVENT INFILTRATION.
- CONTRACTOR SHALL PERFORM LEAKAGE TESTING, IN THE PRESENCE OF THE CONSULTANT, FOR SANITARY SEWERS IN ACCORDANCE WITH OPSS 410 AND OPSS 407. CONTRACTOR SHALL PERFORM VIDEO INSPECTION OF ALL STORM AND SANITARY SEWERS. A COPY OF THE VIDEO AND INSPECTION REPORT SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
- IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S11, SANITARY SERVICE CONNECTION REQUIRES APPROVED CONTROLLED SETTLEMENT JOINT.

WATER SUPPLY:

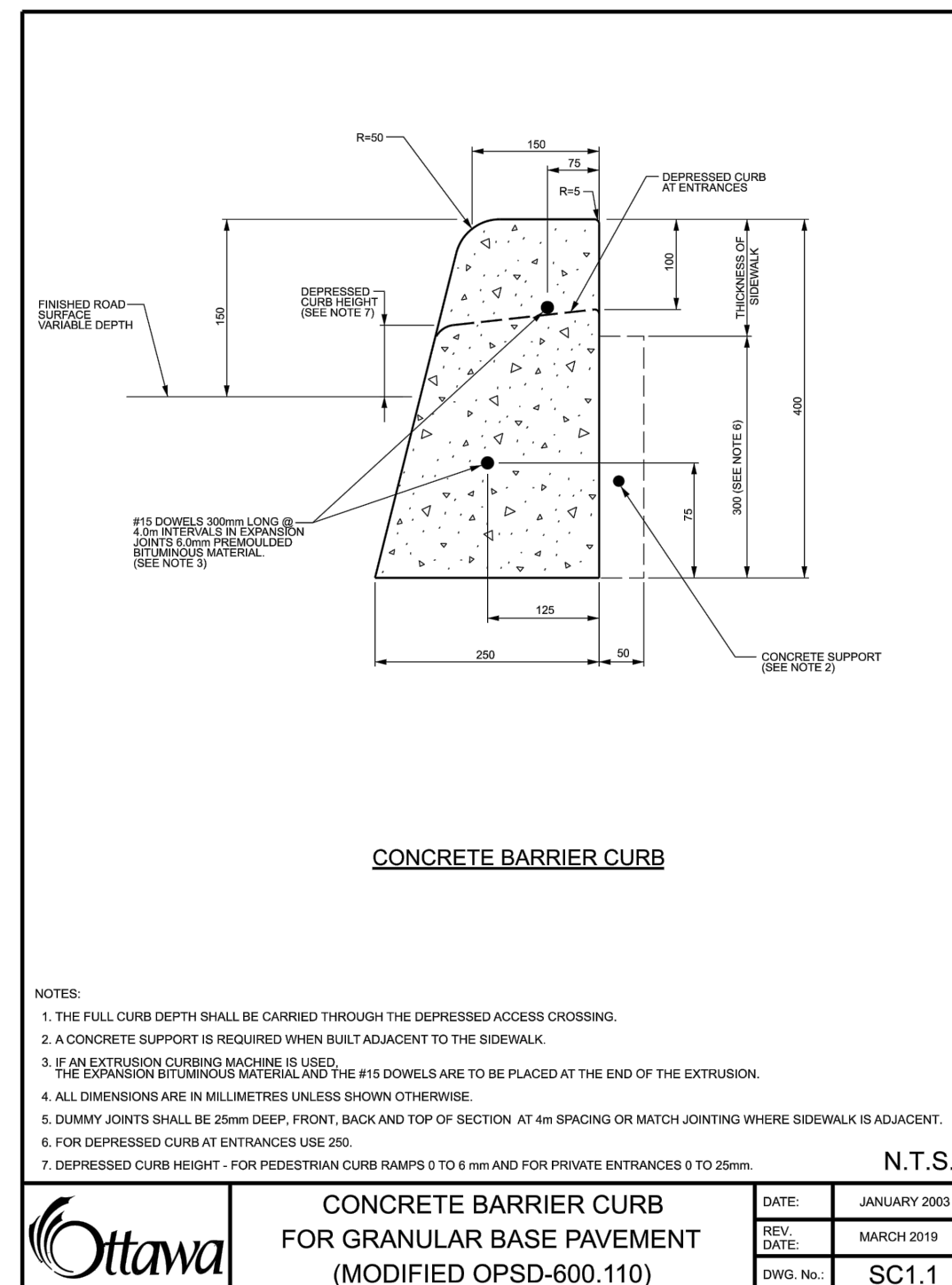
- ALL PVC WATERMAINS SHALL BE EQUAL TO AWWA C-900 CLASS 150, SDR 18, OR APPROVED EQUAL.
- WATERMAIN TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W17, UNLESS OTHERWISE SPECIFIED. BEDDING AND COVER MATERIAL SHALL BE SPECIFIED BY PROJECT GEOTECHNICAL ENGINEER.
- ALL PVC WATERMAINS SHALL BE INSTALLED WITH A 10 GAUGE STRANDED COPPER TWU OR RWJ TRACER WIRE IN ACCORDANCE WITH CITY OF OTTAWA STD. W36.
- CATHODIC PROTECTION IS REQUIRED ON ALL METALLIC FITTINGS AS PER CITY OF OTTAWA STD. W40 AND W42.
- CONTRACTOR TO SUPPLY HYDRANT EXTENSION TO ADJUST THE LENGTH OF HYDRANT BARREL IF REQUIRED.
- FIRE HYDRANTS SHALL BE INSTALLED AS PER CITY OF OTTAWA STD. W19, AND LOCATED AS PER CITY STD. W18.
- VALVE IN BOXES SHALL BE INSTALLED AS PER CITY OF OTTAWA STD. W24.
- WATERMAIN IN FILL AREAS TO BE INSTALLED WITH RESTRAINED JOINTS AS PER CITY OF OTTAWA STD. W25.5 AND W25.6.
- THRUST BLOCKING OF WATERMAIN TO BE INSTALLED AS PER CITY OF OTTAWA STD. W25.3 AND W25.4.
- THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY CAPS, PLUGS AND BLOW-OFFS AND NOZZLES REQUIRED FOR TESTING AND DISINFECTION OF THE WATERMAIN.
- INSULATION FOR WATERMAIN CROSSING OVER AND BELOW SEWER SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. W25.2 AND W25, RESPECTIVELY, WHERE WATERMAIN COVER IS LESS THAN 2.4m.
- AS PER CITY GUIDELINE, THE MINIMUM VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER / UTILITY IS 0.25m FOR CROSSING OVER THE SEWER, AS PER CITY STD. W25.2. FOR CROSSING UNDER SEWER, ADEQUATE STRUCTURAL SUPPORT FOR THE SEWERS IS REQUIRED TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING. THE LENGTH OF WATER PIPE SHALL BE CENTERED AT THE POINT OF CROSSING SO THAT THE JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE SEWER AS PER CITY STD. W25.
- CONNECTION TO EXISTING WATERMAIN TO BE PERFORMED BY CITY FORCES. CONTRACTOR TO PROVIDE LABOUR, EQUIPMENT AND MATERIAL REQUIRED FOR EXCAVATION, BEDDING AND REINSTATEMENT.
- SWABBING, DISINFECTION AND HYDROSTATIC TESTING TO BE CONDUCTED AS PER CITY OF OTTAWA STANDARDS IN THE PRESENCE OF A CITY INSPECTOR AND/OR CONSULTANT.

ROADWORK SPECIFICATIONS:

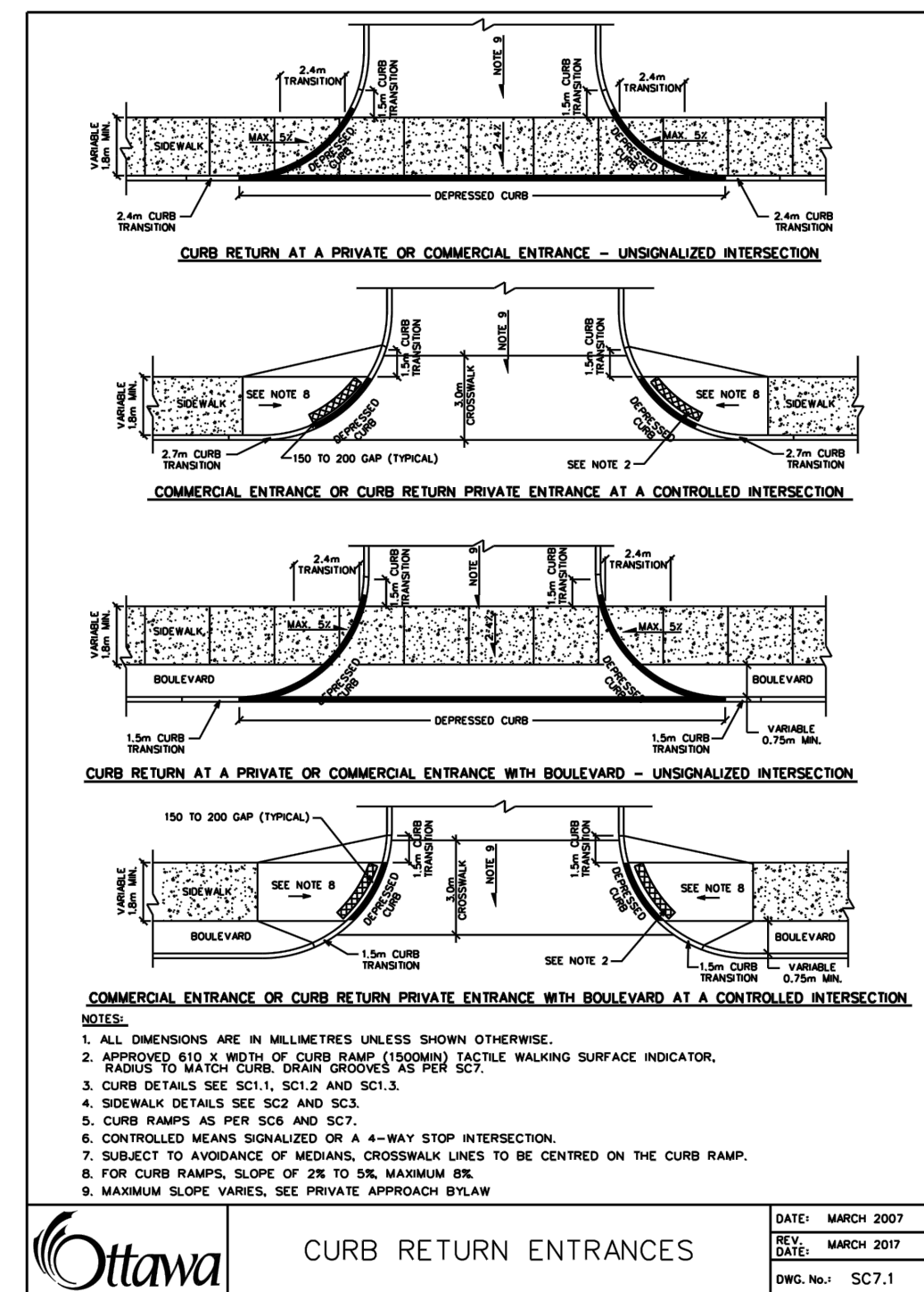
- CONCRETE CURB SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. SC1.1 (BARRIER CURB). PROVISION SHALL BE MADE FOR CURB DEPRESSIONS AT SIDEWALKS AND DRIVEWAYS.
 - ALL BARRIER CURBS TO BE 150mm ABOVE FINISHED ASPHALT GRADE UNLESS OTHERWISE NOTED.
 - CONCRETE SIDEWALK SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. SC3 AND SC1.4.
 - TWS1b SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF OTTAWA STD. SC7.3.
 - PAVEMENT REINSTATEMENT FOR SERVICE AND UTILITY CUTS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. R10 AND OPSD 509.010, OPSS 310.
 - GRANULAR "A" SHALL BE PLACED TO A MINIMUM THICKNESS OF 300mm AROUND ALL STRUCTURES WITHIN PAVEMENT AREA.
 - ALL GRANULAR FOR ROADS SHALL BE COMPACTED TO A MINIMUM OF 98% STANDARD PROCTOR DENSITY. ASPHALT WEAR COURSE SHALL NOT BE PLACED UNTIL THE VIDEO INSPECTION OF SEWERS & NECESSARY REPAIRS HAVE BEEN CARRIED OUT TO THE SATISFACTION OF THE ENGINEER.
 - SUB-EXCAVATE SOFT AREAS AND FILL WITH GRANULAR 'B' COMPACTED IN MAXIMUM 300mm LIFTS.
 - PEDESTRIAN CURB RAMP WITH BOULEVARD SHALL BE ACCORDANCE WITH CITY OF OTTAWA STD. SC7.
 - ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW-CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW ASPHALT.
 - PAVEMENT DESIGN AS PER GEOTECHNICAL RECOMMENDATIONS:
- LIGHT DUTY (CAR ONLY PARKING AREAS)**
- 50mm WEAR COURSE - HL-3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE
 - 150mm BASE - OPSS GRANULAR "A" CRUSHED STONE
 - 300mm SUBBASE - OPSS GRANULAR "B" TYPE I
 - SUBGRADE - EITHER FILL, IN SITU SOIL OR OPSS GRANULAR "B" TYPE I OR II MATERIAL PLACED OVER IN SITU SOIL OR FILL
- HEAVY DUTY (ACCESS LANES AND HEAVY TRUCK PARKING AREAS)**
- 40mm WEAR COURSE - SUPERPAVE 12.5 ASPHALTIC CONCRETE
 - 50mm BINDER COURSE - SUPERPAVE 19.0 ASPHALTIC CONCRETE
 - 150mm BASE - OPSS GRANULAR "A" CRUSHED STONE
 - 450mm SUBBASE - OPSS GRANULAR "B" TYPE II
 - SUBGRADE - EITHER FILL, IN SITU SOIL OR OPSS GRANULAR "B" TYPE I OR II MATERIAL PLACED OVER IN SITU SOIL OR FILL
- ROLLER COMPACTED CONCRETE (AS PER SITE PLAN)**
- 200mm THICKNESS, ZERO SLUMP, NO AIR ENTRAINMENT, 32 MPa at 28 DAY STRENGTH, 12 TO 13% CEMENT CONTENT
 - 300mm BASE - OPSS GRANULAR "A" CRUSHED STONE



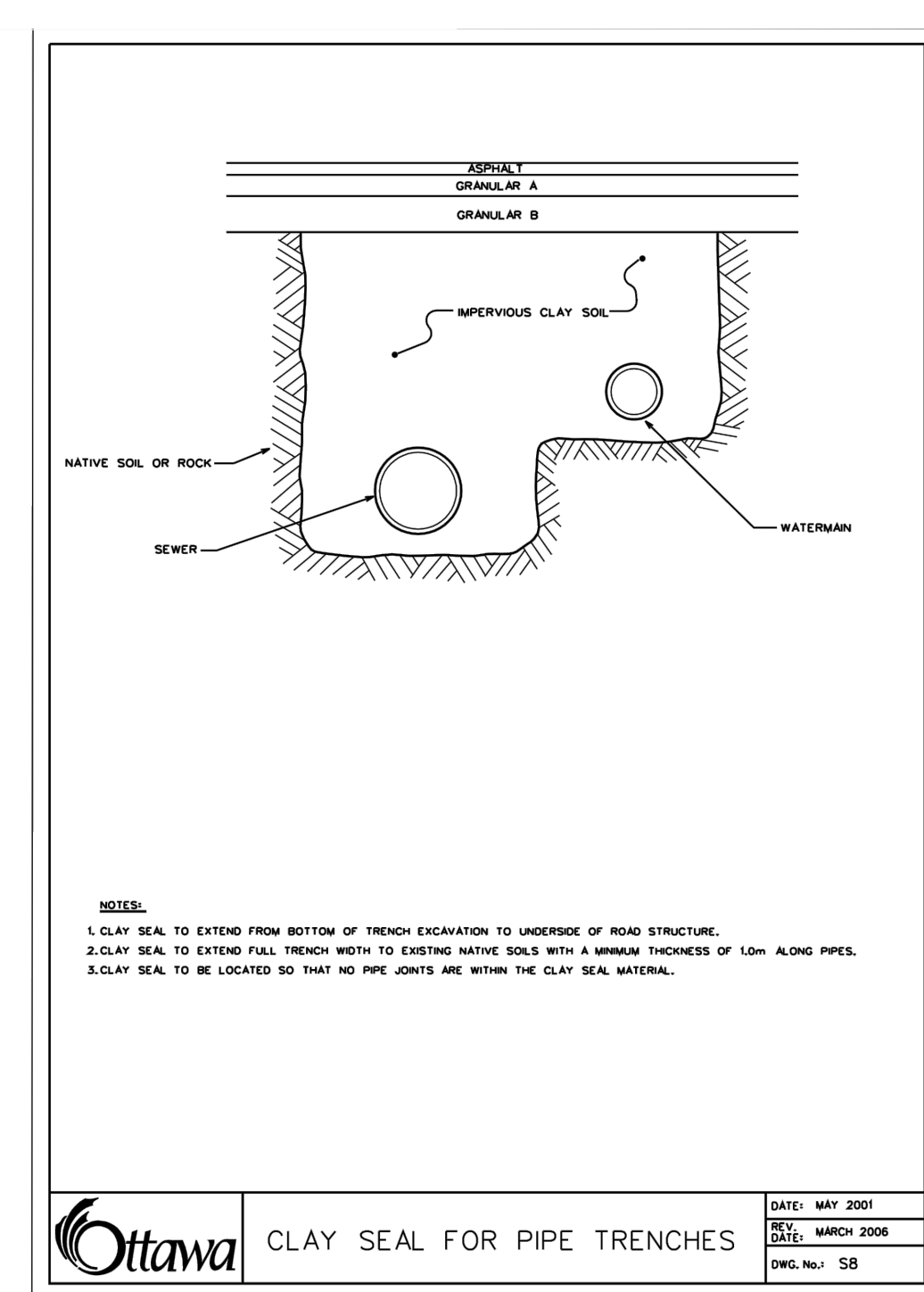
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ENG. NO.	S8



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REV. DATE	MARCH 2019
ENG. NO.	SC1.1



DATE	MARCH 2007
REV. DATE	MARCH 2017
ENG. NO.	SC1.1

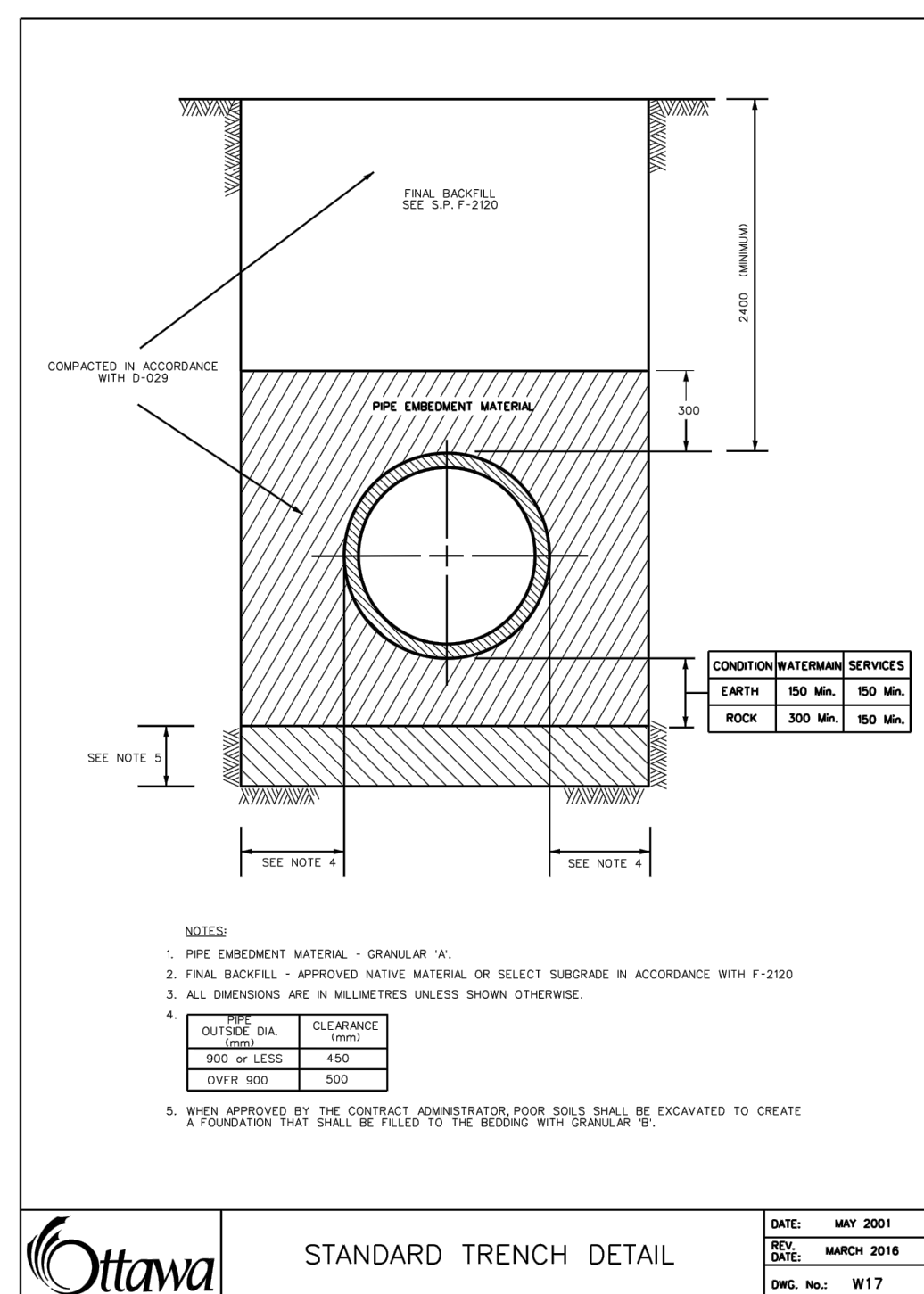


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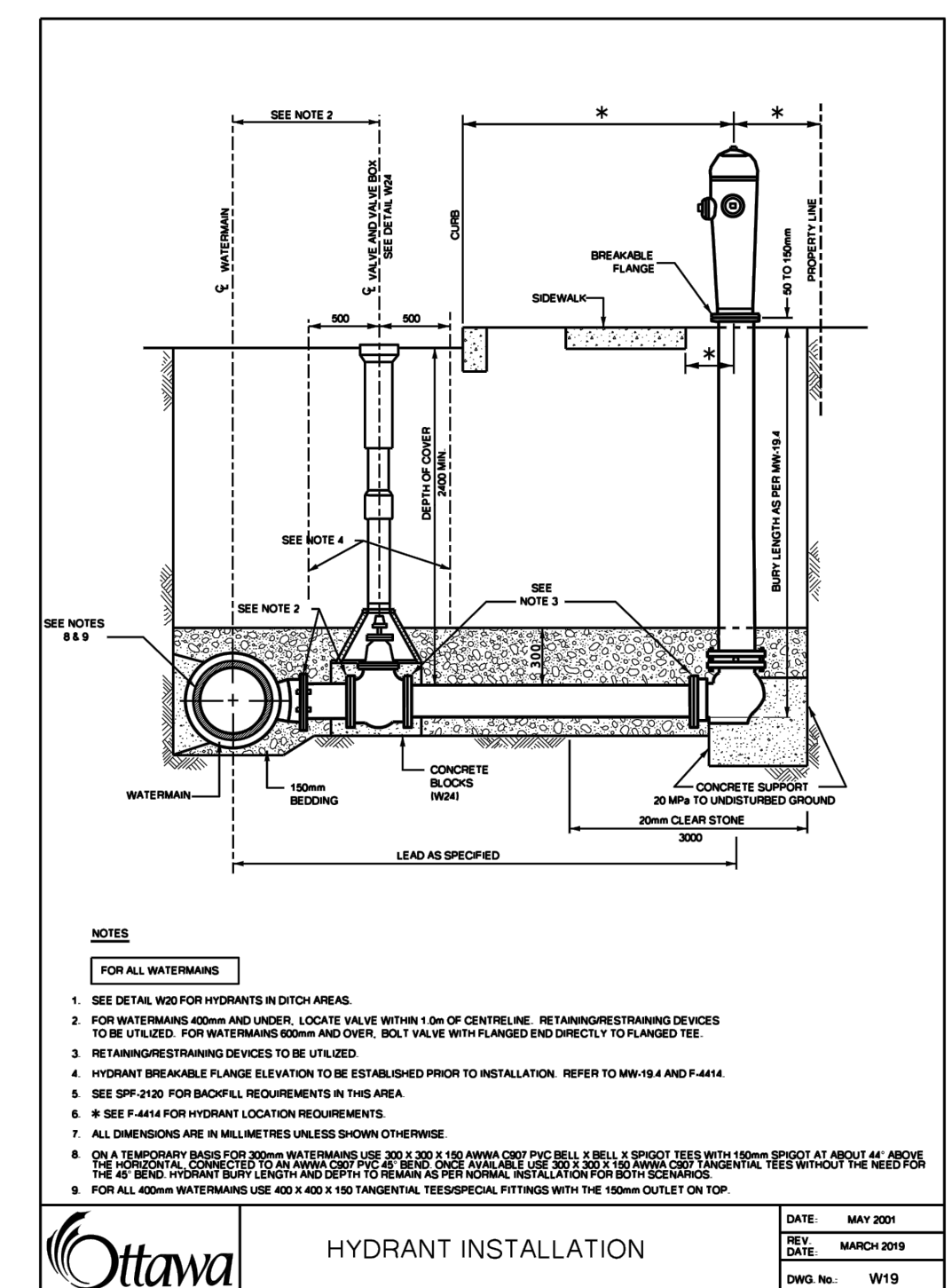
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MANAGER (A), DEVELOPMENT REVIEW WEST
PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT
DEPARTMENT, CITY OF OTTAWA

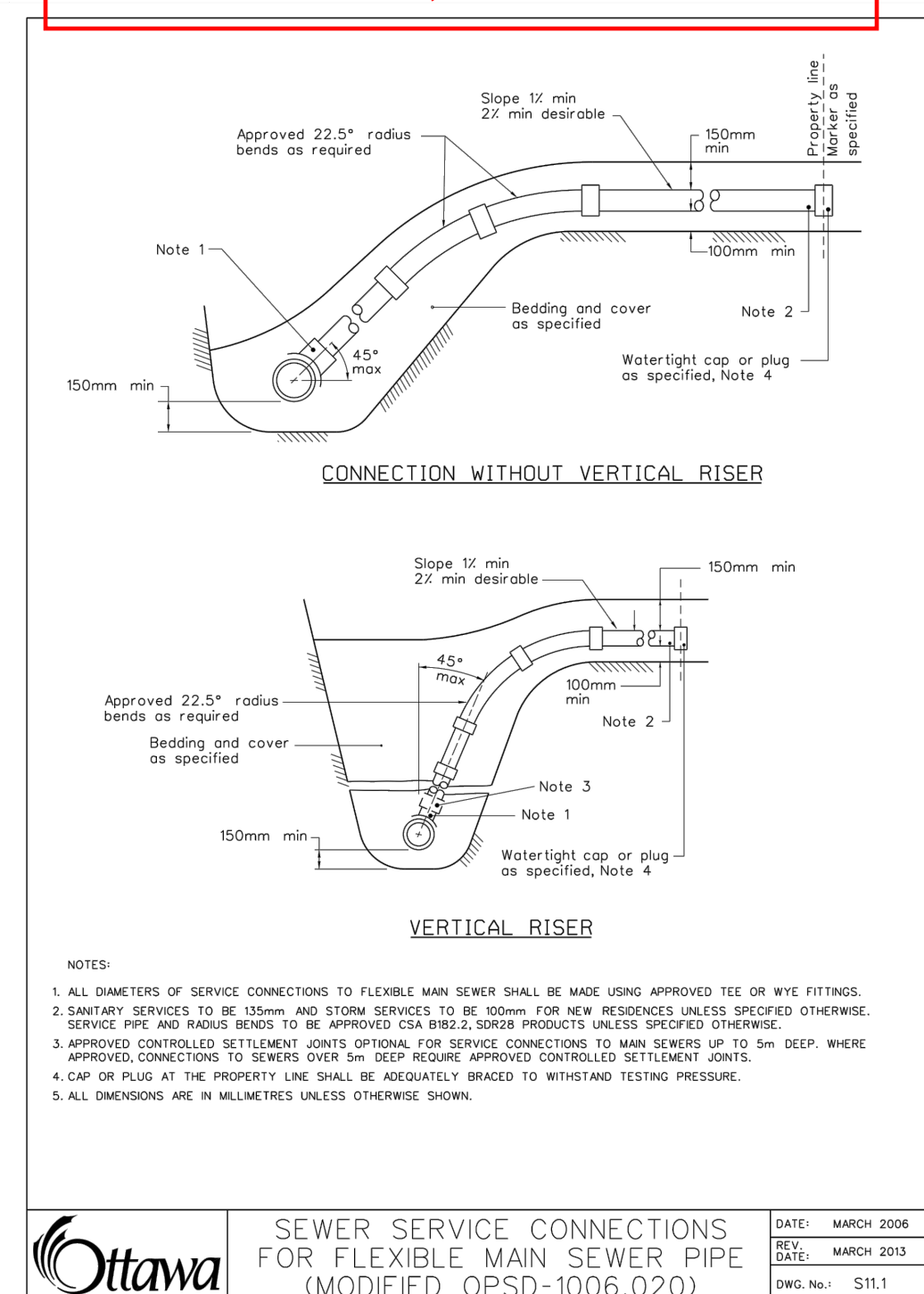
APPROVED
 By Allison Hamlin at 1:14 pm, May 05, 2022



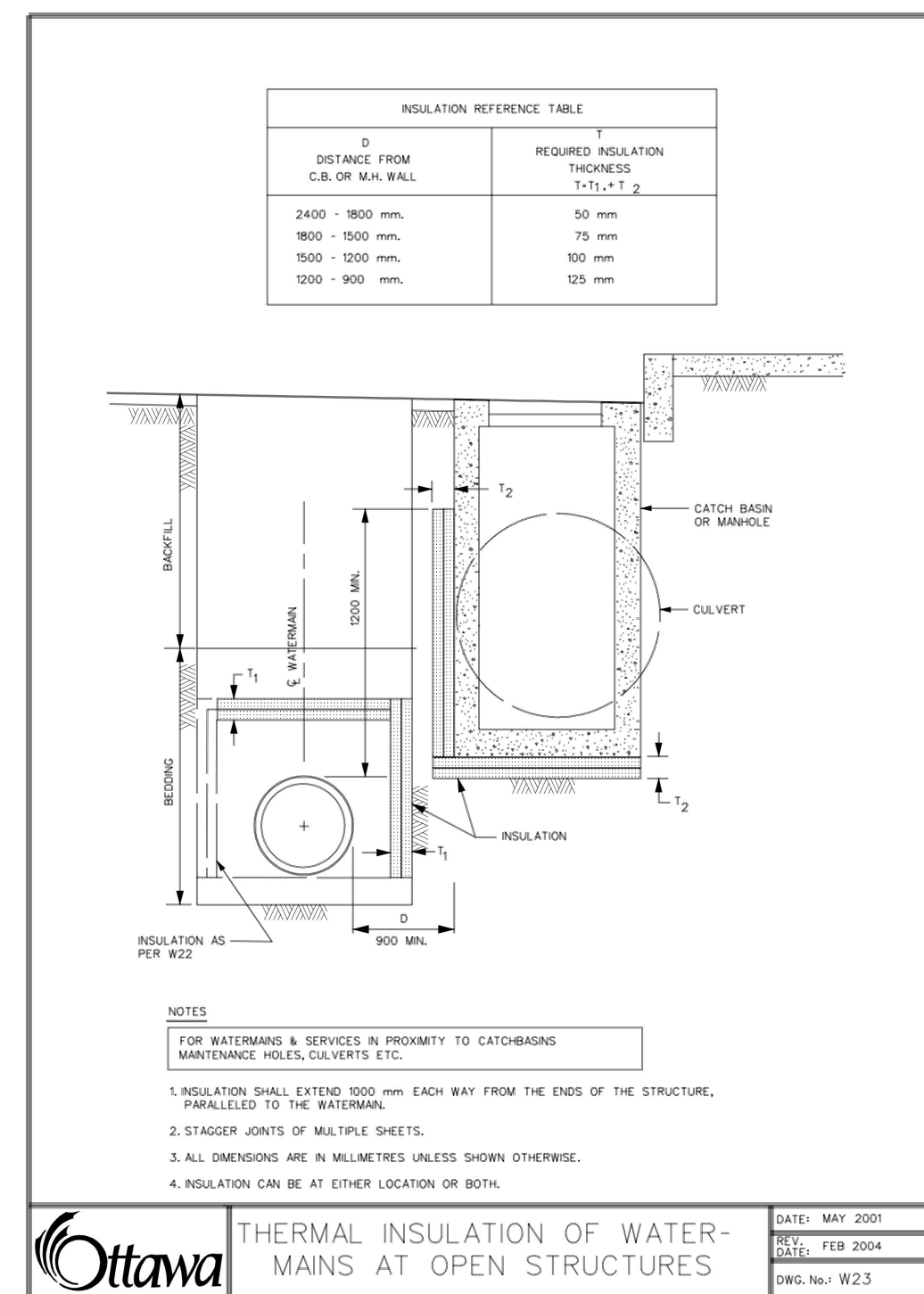
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ENG. NO.	W17



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ENG. NO.	W19



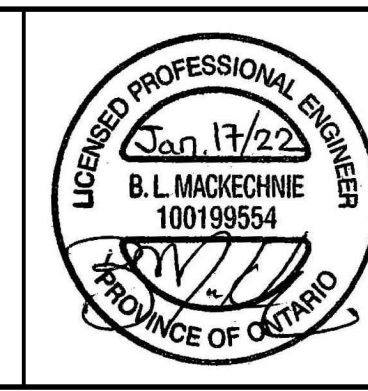
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ENG. NO.	S11.1



DATE	MAY 2007
REV. DATE	FEB 2009
ENG. NO.	W23

NO.	REVISION DESCRIPTION	DATE	BY
6	REVISED PER COMMENTS	17/01/22	BLM
5	REVISED PER COMMENTS	09/08/21	SMC
4	ISSUED FOR TENDER	11/06/21	SMC
3	REVISED PER COMMENTS	28/05/21	SMC
2	ISSUED FOR PROGRESS REVIEW	22/03/21	SMC
1	ISSUED FOR SITE PLAN APPLICATION	02/12/20	SMC

SCALE
SCALE



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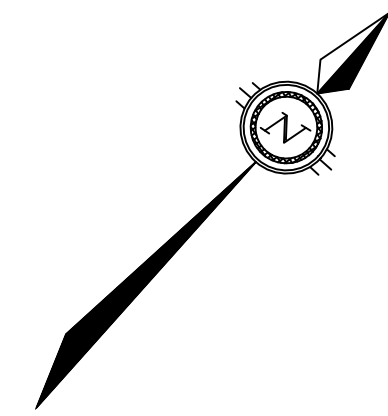
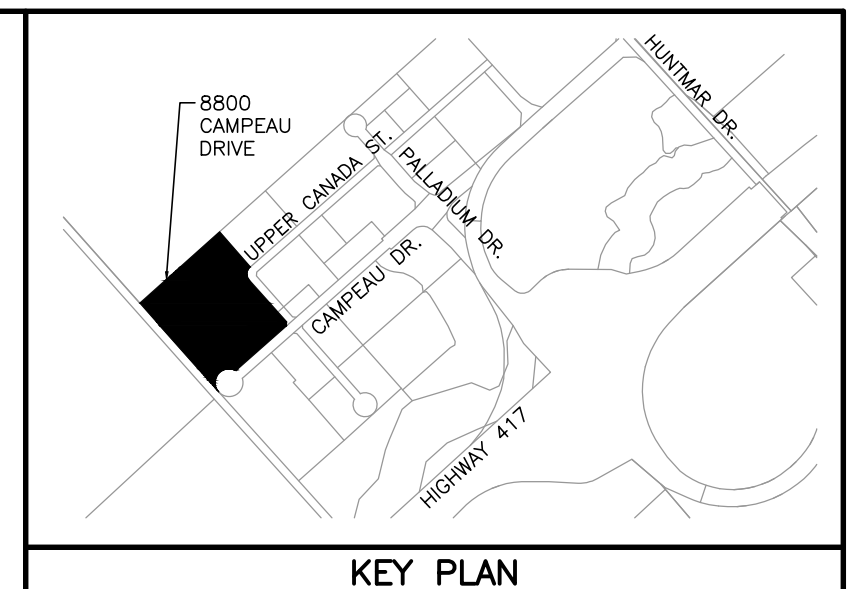
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DRAWN	BLM
CHECKED	SMC
APPROVED	SMC

MARITIME-ONTARIO
FREIGHT LINES LIMITED

KANATA WEST BUSINESS PARK
8800 CAMPEAU DRIVE, OTTAWA, ON

PROJECT No.	20027
SURVEY	STANTEC
DATED	JANUARY 2022
DWG. No.	20027-N1

NOTES & DETAILS



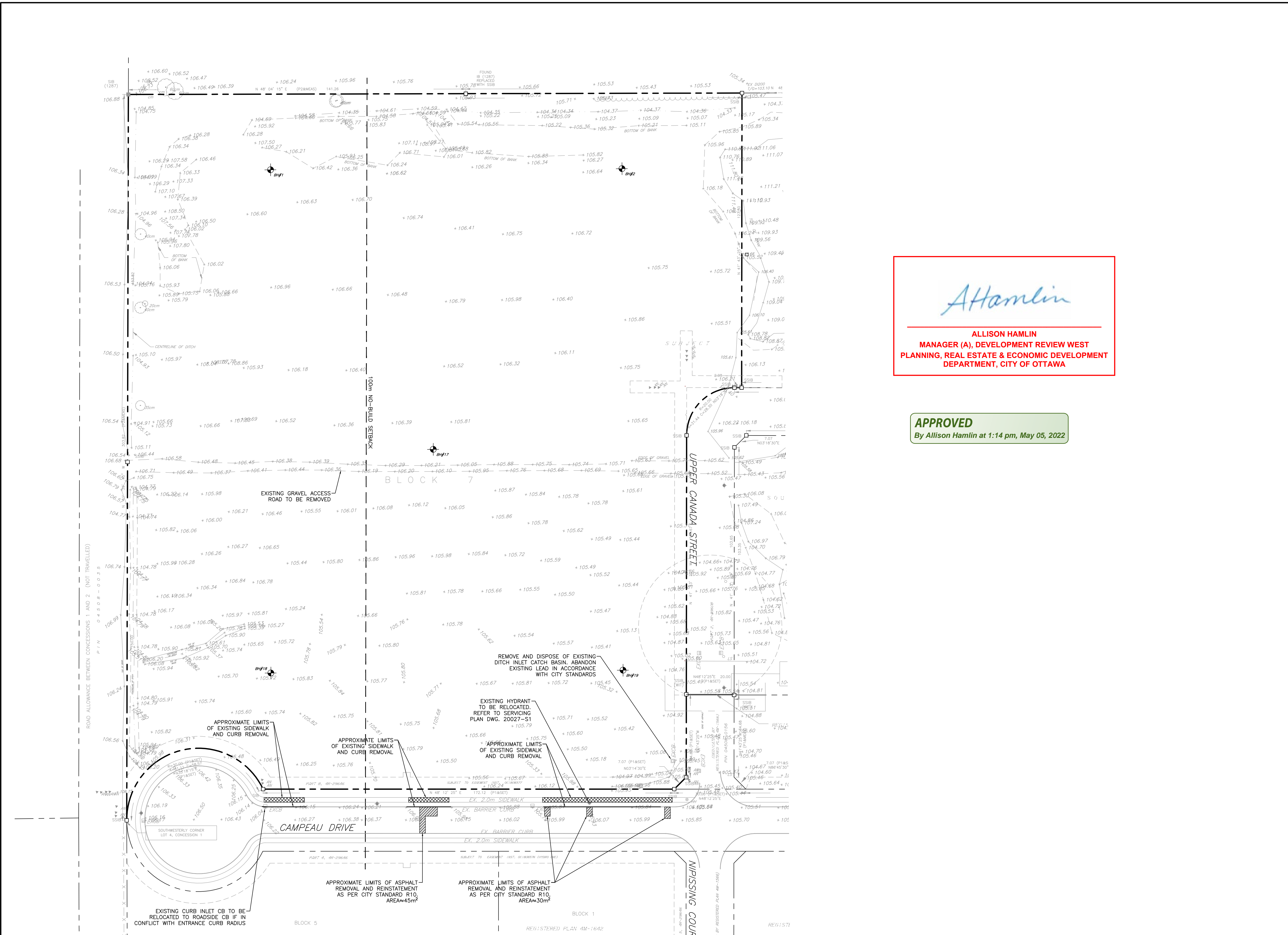
Allison Hamlin

ALLISON HAMLIN
MANAGER (A), DEVELOPMENT REVIEW WEST
PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT
DEPARTMENT, CITY OF OTTAWA

APPROVED
 By Allison Hamlin at 1:14 pm, May 05, 2022

- LEGEND**
- PROPERTY BOUNDARY
 - + 106.00 EXISTING ELEVATION
 - - - EXISTING DITCH
 - EXISTING CATCH BASIN
 - EXISTING STORM SEWER & MANHOLE
 - EXISTING SANITARY SEWER & MANHOLE
 - EXISTING WATERMAIN
 - EXISTING HYDRANT
 - ⊕ EXISTING VALVE & VALVE BOX
 - - - 100m NO-BUILD SETBACK
 - ⊕ BOREHOLE
 - EXISTING CURB REMOVAL
 - ▨ EXISTING ASPHALT REMOVAL
 - ▩ EXISTING SIDEWALK REMOVAL

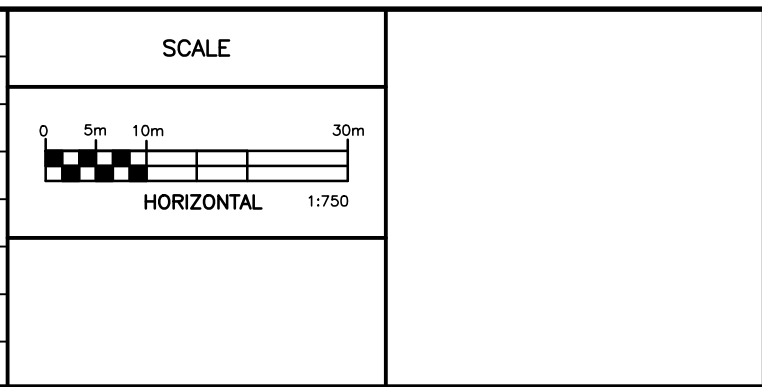
- NOTES:**
- THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL EXISTING UTILITIES WITHIN THE SITE AND ADJACENT WORK AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY SERVICES OR UTILITIES DISTURBED DURING CONSTRUCTION, TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.
 - ANY AREAS BEYOND THE LIMIT OF THE SITE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION AT THE CONTRACTOR'S EXPENSE.
 - RELOCATION OF EXISTING SERVICES AND/OR UTILITIES SHALL BE AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
 - THE SUPPORT OF ALL UTILITIES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
 - ALL NECESSARY CLEARING AND GRUBBING SHALL BE COMPLETED BY THE CONTRACTOR. REVIEW WITH CONTRACT ADMINISTRATOR AND THE CITY OF OTTAWA PRIOR TO AND TREE CUTTING.
 - REFER TO GEOTECHNICAL INVESTIGATION PREPARED BY PATERSON GROUP, REPORT NO. PG5618-1, DATED MAY 11, 2021.
 - ALL EXISTING ASPHALT TO BE SAW-CUT.
 - REINSTATE ROAD CUTS IN ACCORDANCE WITH CITY STANDARD R10.



NOTES

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.

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4	REVISED PER COMMENTS	17/01/22	BLM
3	REVISED PER COMMENTS	09/08/21	SMC
2	ISSUED FOR TENDER	11/06/21	SMC
1	REVISED PER COMMENTS	28/05/21	SMC



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APPROVED	SMC

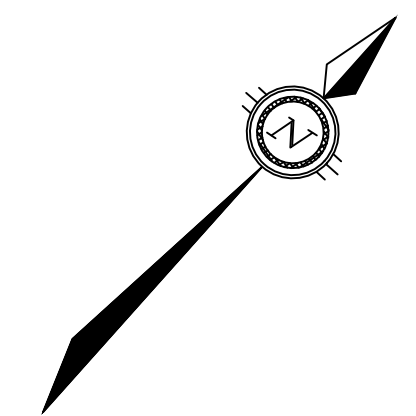
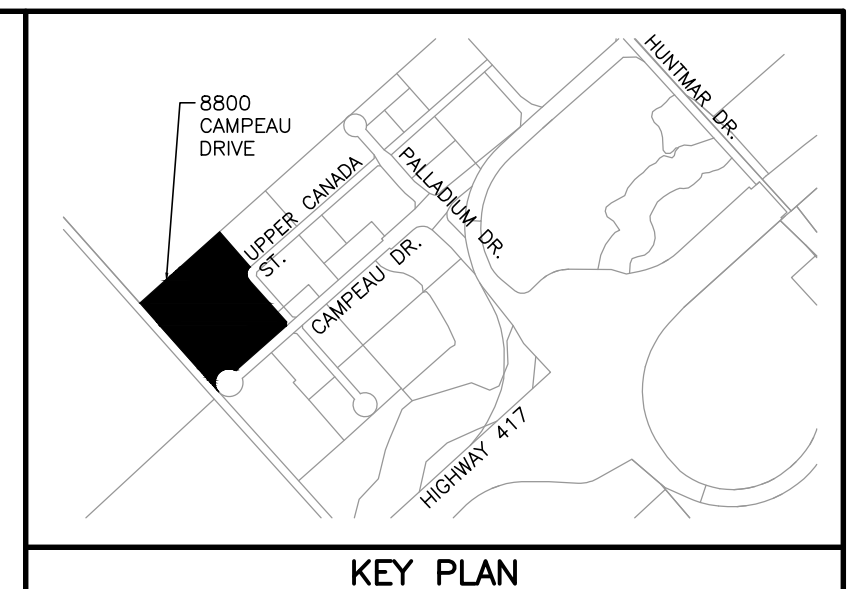
MARITIME-ONTARIO
FREIGHT LINES LIMITED

KANATA WEST BUSINESS PARK
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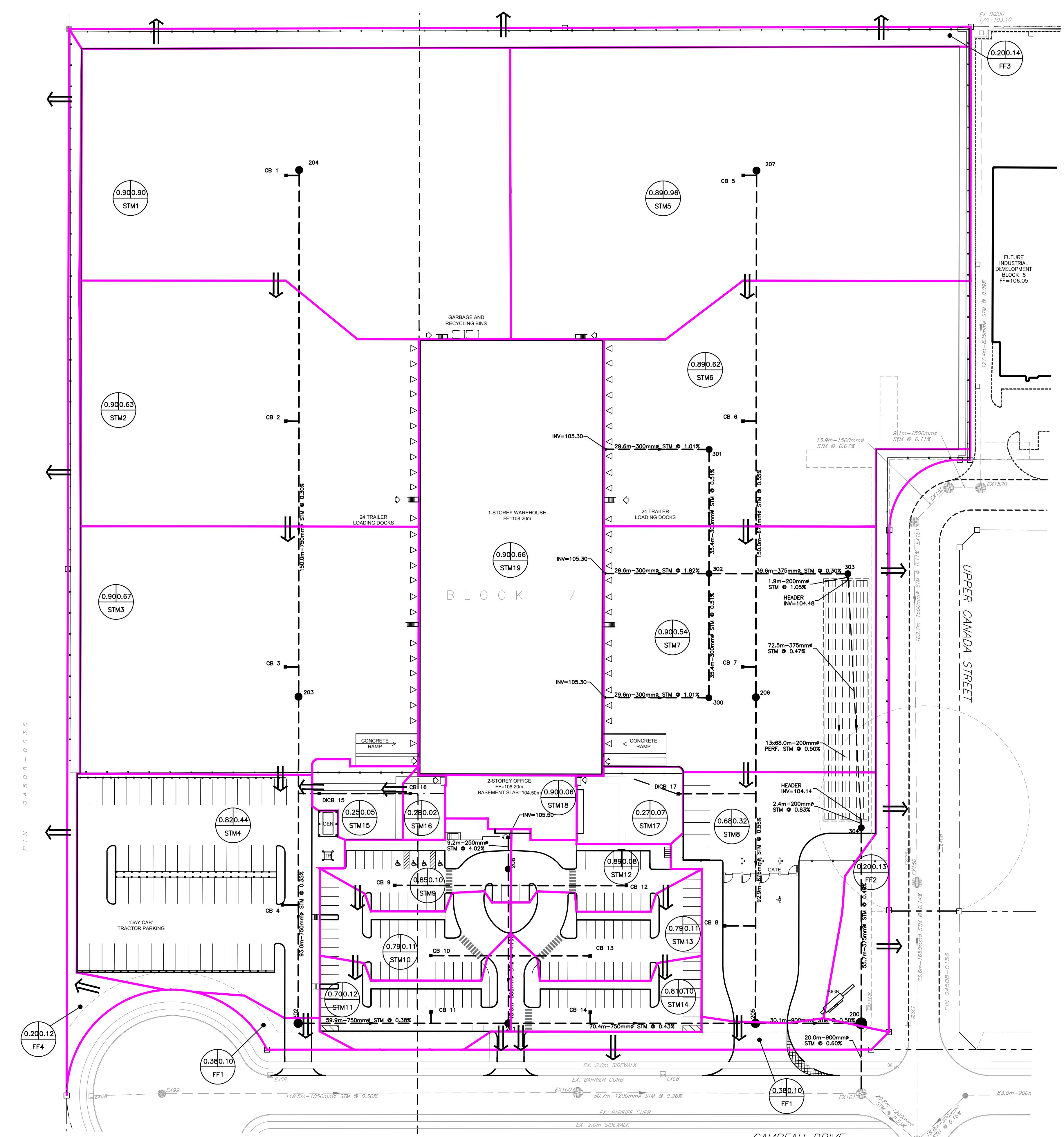
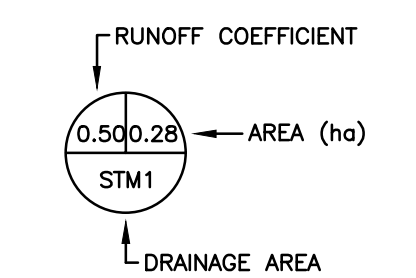
EXISTING CONDITIONS
AND REMOVALS PLAN

PROJECT No.	20027
SURVEY	STANTEC
DATED	JANUARY 2022
DWG. No.	20027-R1

#18376



- LEGEND**
- PROPERTY BOUNDARY
 - CATCH BASIN
 - EXISTING CATCH BASIN
 - STORM SEWER & MANHOLE
 - EXISTING STORM SEWER & MANHOLE
 - - - 100m NO-BUILD SETBACK
 - - - SWALE
 - STORM DRAINAGE AREA BOUNDARY
 - ⇒ MAJOR OVERLAND FLOW ROUTE



Allison Hamlin

ALLISON HAMLIN
 MANAGER (A), DEVELOPMENT REVIEW WEST
 PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT
 DEPARTMENT, CITY OF OTTAWA

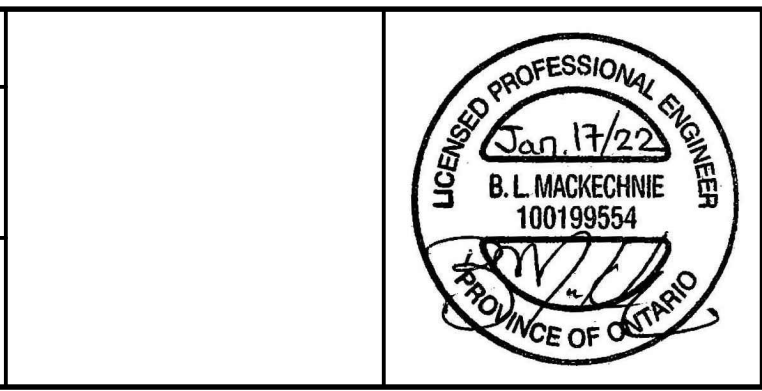
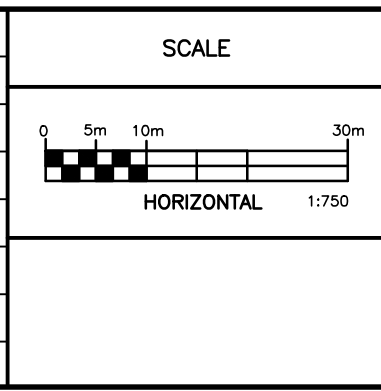
APPROVED
 By Allison Hamlin at 1:14 pm, May 05, 2022

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1	ISSUED FOR SITE PLAN APPLICATION	02/12/20	SMC

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CHECKED	SMC
APPROVED	SMC

**MARITIME-ONTARIO
 FREIGHT LINES LIMITED**

**KANATA WEST BUSINESS PARK
 8800 CAMPEAU DRIVE, OTTAWA, ON**

STORM DRAINAGE AREA PLAN

PROJECT No.	20027
SURVEY	STANTEC
DATED	JANUARY 2022
DWG. No.	20027-STM1