DISTRIBUTION KANATA

1400 UPPER CANADA STREET

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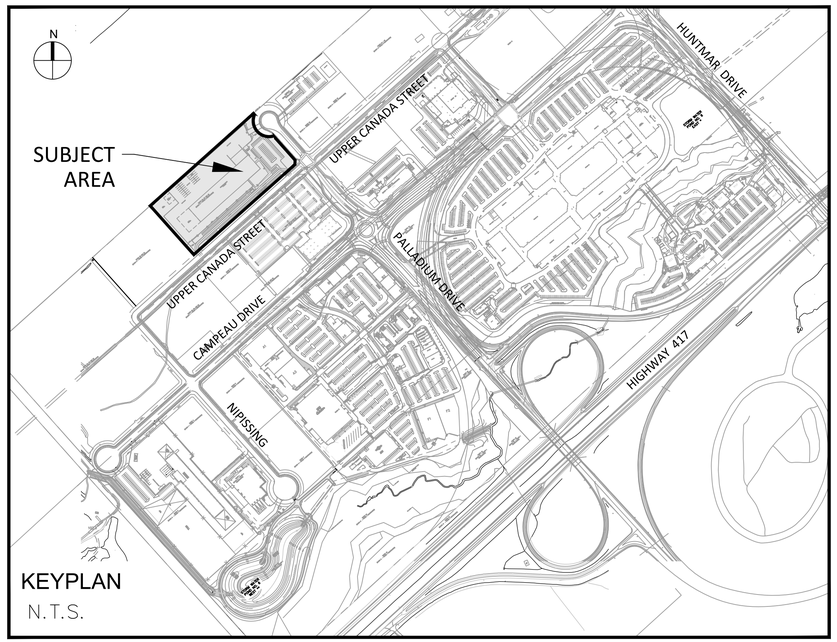

Sheet List Table		
Sheet Number	Sheet Title	Sheet Description
C-000	COVER	
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C-200	SITE GRADING PLAN	
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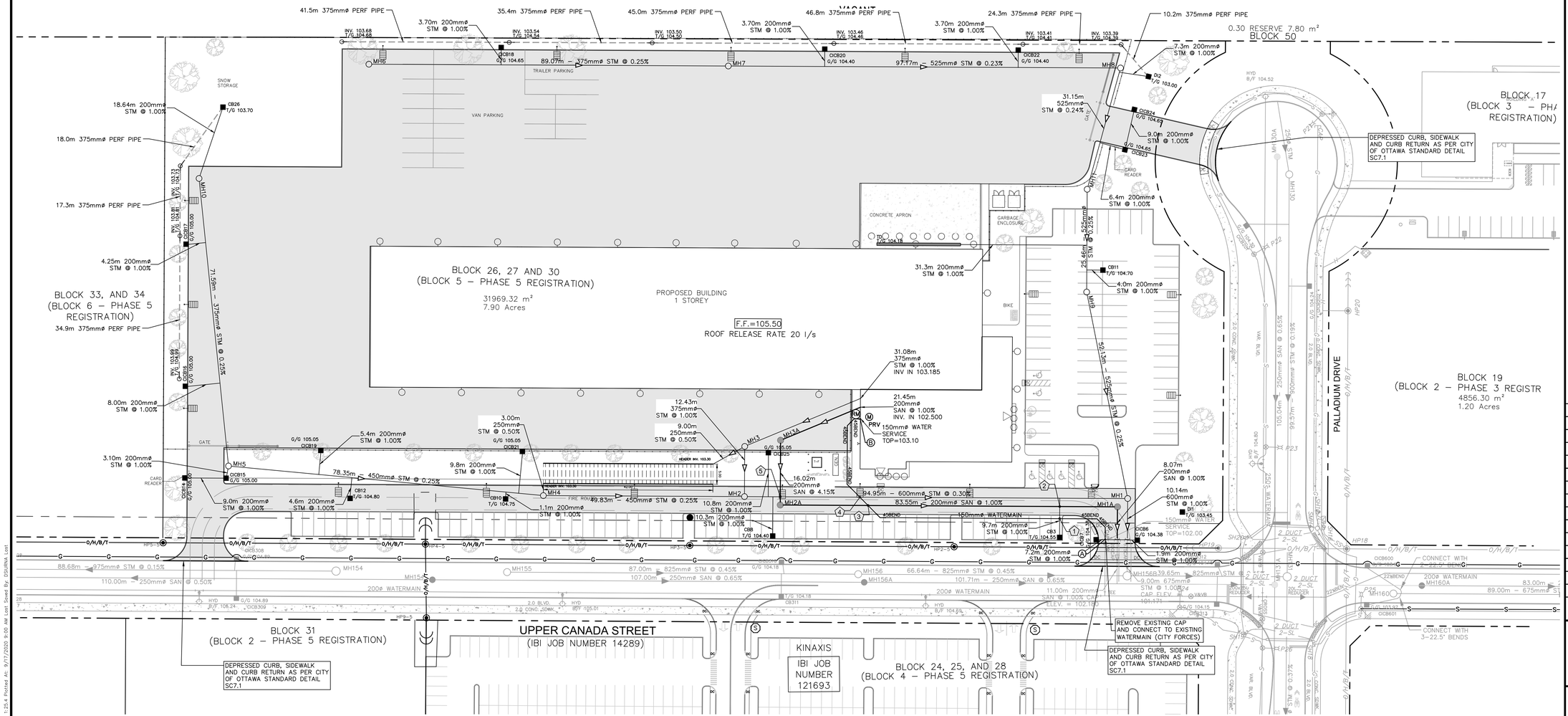
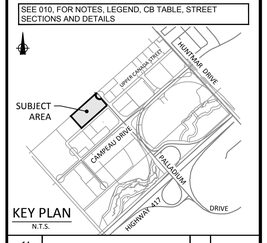
TAGGART REALTY MANAGEMENT

CONTRACT NO. 123987

ISSUED FOR SPA - 2020-09-17
CITY FILE No. D07-XX-XX-XXXX CITY PLAN No. XXXXX



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



KEY PLAN
N.T.S.

WATERMAIN SCHEDULE

	Station	Description	Finished Grade	Top of Watermain	Watermain Cover	As Built Watermain
A	0+000.00	REMOVE EXISTING CAP AND CONNECT	104.39	102.00	2.39	
	0+003.00	45 BEND	104.46	102.06	2.40	
	0+006.00	45 BEND	104.50	102.10	2.40	
	0+025.00	--	104.77	102.37	2.40	
	0+059.75	45 BEND	105.09	102.69	2.40	
	0+071.39	45 BEND	105.27	102.87	2.40	
	0+085.91	45 BEND	105.33	102.93	2.40	
	0+088.24	45 BEND	105.45	103.05	2.40	
B	0+089.70	150mm SERVICE CONNECTION	105.50	103.10	2.40	

REVISED 2020-08-20

STRM STRUCTURE TABLE

NAME	RIM ELEV.	INVERT IN	INVERT IN AS–BUILT	INVERT OUT	INVERT OUT AS–BUILT	DESCRIPTION
MH1	104.58	NW101.347 SW101.332		SE101.272		1200mmø OPSD–701.010
MH2	104.71	SW101.767 NW102.750		NE101.617		1200mmø OPSD–701.010
MH3	105.13	NE102.875		S103.345 SE102.875		1200mmø OPSD–701.010
MH4	104.93	SW101.952 NW103.285		NE101.892		1200mmø OPSD–701.010
MH5	105.24	NW102.223		NE102.148		1200mmø OPSD–701.010
MH6	104.98			NE102.212		1200mmø OPSD–701.010
MH7	104.67	SW101.989		NE101.839		1200mmø OPSD–701.010
MH8	104.71	SW101.617		SE101.617		1200mmø OPSD–701.010
MH9	104.82	NW101.478		SE101.478		1200mmø OPSD–701.010
MH10	105.28			SE102.402		1200mmø OPSD–701.010
MH11	105.06	NW101.541		SE101.541		1200mmø OPSD–701.010
STM BLKHD	104.38	NW101.171				675mmø BULKHEAD

SAN STRUCTURE TABLE

NAME	RIM ELEV.	INVERT IN	INVERT IN AS–BUILT	INVERT OUT	INVERT OUT AS–BUILT	DESCRIPTION
MH1A	104.55	SW100.417		SE100.417		1200mmø OPSD–701.010
MH2A	104.65	NW101.253		NE101.253		1200mmø OPSD–701.010
MH3A	105.12	NE102.285		SE101.918		1200mmø OPSD–701.010
SAN BLKHD	104.38	NW100.337				200MMø CAP

No.	REVISIONS	By	Date
14			
13			
12			
11			
10			
9			
8			
7			
6			
5			
4			
3			
2			
1	ISSUED FOR SPA	T.R.B.	2020:09:17

TAGGART REALTY MANAGEMENT

IBI GROUP
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ibigroup.com

Project Title
Purolator
DISTRIBUTION KANATA
1400 UPPER CANADA STREET,

LICENCE PROFESSIONAL ENGINEER
T. R. BRULE
2020/09/17
PROVINCE OF ONTARIO

Drawing Title
SITE SERVICING PLAN

Scale
5 0 5 10
1:500

Design	Date
J.B.	AUG . 2020
Drawn	Checked
J.B/D.P.S.	T.R.B.
Project No.	Drawing No.
123987	C-001

CITY FILE No. D07-12-20-xxxx
CITY PLAN No. xxxxx

UTILITY LEGEND

- TRANSFORMER
- TRANSFORMER C/W CONCRETE WINGS
- HYDRO SWITCHGEAR
- HYDRO MANHOLE
- BELL PEDESTAL
- BELL GRADE LEVEL BOX (l=600mm, w=1200mm, d=750mm) C/W 1.5 x 3.0m easement
- BELL FIBER CABINET (l=1200mm, w=750mm, d=500mm)
- 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
- STREET LIGHT
- STREET LIGHT DISCONNECT
- STREET LIGHT GROUNDING
- JOINT UTILITY TRENCH
- HYDRO CABLE AND DUCTS
- BELL CABLE
- BELL DUCTS
- ROGERS CABLE
- ROGERS DUCTS
- GAS
- STREET LIGHT CABLE
- UTILITY DROP LOCATIONS
- CONCRETE ENCASED DUCT BANK C/W NUMBER OF DUCTS
- COMMUNITY MAILBOX
- PROPOSED TREE LOCATION
- ROOT MANAGEMENT BARRIER

SERVICING LEGEND

- SANITARY MANHOLE
- SANITARY SEWER
- STORM MANHOLE
- STORM SEWER - LESS THAN 900Ø
- STORM SEWER - 900Ø AND GREATER
- WATERMAIN
- STREET CATCHBASIN C/W TOP OF GRATE
- CURB INLET CATCHBASIN C/W GUTTER GRADE
- DOUBLE CATCHBASIN C/W TOP OF GRADE
- DITCH INLET CATCHBASIN C/W GUTTER GRADE
- CATCHBASIN MANHOLE C/W TOP OF GRATE
- DITCH INLET MANHOLE C/W TOP OF GRADE
- ICD LOCATION
- REAR YARD CATCHBASIN IN ROAD CONNECTING STRUCTURE C/W SOLID GRATE
- REAR YARD "TEE" CATCHBASIN (300Ø) C/W TOP OF GRATE AND INVERT OUT
- REAR YARD "END" CATCHBASIN (300Ø) C/W TOP OF GRATE AND INVERT OUT
- REAR YARD "CUSTOM ANGLED " CATCHBASIN (450Ø) C/W TOP OF GRATE AND INVERT OUT
- REAR YARD "THREE WAY" CATCHBASIN (450Ø) C/W TOP OF GRATE AND INVERT OUT
- PERFORATED REAR YARD SUBDRAIN
- CSP CULVERT C/W DIAMETER
- VALVE AND VALVE BOX
- VALVE AND VALVE CHAMBER
- FIRE HYDRANT C/W BOTTOM OF FLANGE ELEVATION
- WATERMAIN REDUCER
- VERTICAL BEND LOCATION

SEDIMENT EROSION LEGEND

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

GRADING LEGEND

- PROPOSED SWALE C/W FLOW DIRECTION
- PROPOSED DITCH C/W FLOW DIRECTION AND SLOPE
- SLOPE C/W FLOW DIRECTION
- MAJOR OVERLAND FLOW ROUTE
- PROPOSED SPOT GRADE
- PROPOSED SWALE GRADE
- PROPOSED SWALE HIGH POINT GRADE
- LOT CORNER GRADE C/W EXISTING GRADE
- TIE INTO EXISTING GRADE
- FULL STATIC PONDING GRADE
- RETAINING WALL C/W TOP OF WALL AND GRASS GRADE
- TERRACING 3:1 MAXIMUM UNLESS NOTED OTHERWISE
- PRESSURE REDUCING VALVE

GENERAL LEGEND

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

PAVEMENT STRUCTURE:

LIGHT DUTY - CAR PARK 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 II

HEAVY DUTY - TRUCK AREAS

40mm	- SUPERPAVE 12.5 ASPHALTIC CONCRETE
50mm	- SUPERPAVE 19.0 ASPHALTIC CONCRETE
150mm	- OPSS GRANULAR "A" CRUSHED STONE
450mm	- OPSS GRANULAR "B" TYPE II

DRAWING NOTES

1.0 GENERAL

1.1 CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.

1.2 DO NOT SCALE DRAWINGS.

1.3 CONTRACTOR TO REPORT ALL DISCOVERIES OF ERRORS, OMISSIONS OR DISCREPANCIES TO THE ARCHITECT OR DESIGN ENGINEER AS APPLICABLE.

1.4 USE ONLY THE LATEST REVISED DRAWINGS OR THOSE THAT ARE MARKED "ISSUED FOR CONSTRUCTION".

1.5 ALL CONSTRUCTION SHALL COMPLY WITH CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.

1.6 THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS AND SPECIFICATIONS.

1.7 FOR LEGAL SURVEY INFORMATION REFER TO REGISTERED PLAN.

1.8 REFER TO SITE PLAN BY N45 ARCHITECTURE.

1.09 CONTRACTOR TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES AS IDENTIFIED IN THE EROSION AND SEDIMENT CONTROL PLAN TO THE SATISFACTION OF THE CITY OF OTTAWA, PRIOR TO UNDERTAKING ANY SITE ALTERATIONS (FILLING, GRADING, REMOVAL OF VEGETATION, ETC.), DURING ALL PHASES OF THE SITE PREPARATION AND CONSTRUCTION THE MEASURES ARE TO BE MAINTAINED TO THE SATISFACTION OF THE ENGINEER AND CITY OF OTTAWA IN ACCORDANCE WITH THE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL. SHOULD ANY ADDITIONAL MEASURES BE REQUIRED TO ADDRESS FIELD CONDITIONS THEY SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER OR THE CITY OF OTTAWA. SUCH ADDITIONAL MEASURES MAY INCLUDE BUT NOT BE LIMITED TO INSTALLATION OF FILTER CLOTHS ACROSS MANHOLE AND CATCHBASIN LIDS TO PREVENT SEDIMENT FROM ENTERING THE STRUCTURE AND INSTALLATION AND MAINTENANCE OF A LIGHT DUTY SILT FENCE BARRIER AS REQUIRED.

1.10 ALL IRON WORK ELEVATIONS SHOWN ARE APPROXIMATE AND ARE SUBJECT TO MINOR ADJUSTMENTS AS DETERMINED BY THE ENGINEER.

1.11 ALL CONCRETE CURBS AND SIDEWALKS TO CONFORM TO O.P.S. AND CONSTRUCTED TO CITY STANDARDS. ALL ONSITE CURBS TO BE BARRIER TYPE, WITH DEPRESSIONS AS NOTED.

1.12 ALL CONCRETE SHALL BE "NORMAL PORTLAND CEMENT" IN ACCORDANCE WITH O.P.S.S. 1350 AND SHALL ACHIEVE A MINIMUM STRENGTH OF 30MPa AT 28 DAYS.

1.13 ALL CONSTRUCTION TRAFFIC TO ACCESS SITE FROM PALLADIUM DRIVE OR UPPER CANADA STREET.

1.14 FOR GEOTECHNICAL REPORT SEE GEOTECHNICAL INVESTIGATION PG4783-1 FEB 7, 2019 BY PATERSON GROUP.

1.15 CONTRACTOR TO PROTECT EXISTING INFRASTRUCTURE AND PROPERTY SUCH AS TREES, PARKING METERS, SIDEWALKS, CURBS, ASPHALT, AND STREET SIGNS FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR TO PAY THE COST TO REINSTATE OR REPLACE ANY DAMAGED INFRASTRUCTURE OR PROPERTY TO THE SATISFACTION OF THE CITY.

1.16 THE POSITION OF POLE LINES, CONDUITS, WATERMAIN, SEWERS, AND OTHER UNDERGROUND AND ABOVEGROUND UTILITIES AND STRUCTURES ARE 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 THE CONTRACTOR SHALL INFORM ITSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, SHALL PROTECT ALL UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

1.17 CONTRACTOR TO SUPPLY SUITABLE FILL MATERIAL WHERE REQUIRED TO ROUGH GRADE THE SITE. ALL IMPORTED FILL MATERIAL TO BE CERTIFIED AS ACCEPTABLE BY THE GEOTECHNICAL ENGINEER.

1.18 CONTRACTOR TO HAUL EXCESS MATERIAL OFFSITE AS NECESSARY TO GRADE SITE TO MEET THE PROPOSED GRADES. ALL EXCESS MATERIAL TO BE HAULED OFFSITE AND DISPOSED OF AT AN APPROVED DUMP SITE. SHOULD THE CONTRACTOR DISCOVER ANY HAZARDOUS MATERIAL, CONTRACTOR IS TO NOTIFY ENGINEER. ENGINEER TO DETERMINE APPROPRIATE DISPOSAL METHOD/LOCATION.

1.19 FILL MATERIAL WITHIN THE PARKING LOT AND BUILDING PAD AREAS, AND SUPPORTING BUILDING FOUNDATIONS SHALL BE COMPACTED TO 98% STANDARD MODIFIED PROCTOR DENSITY AND TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.

1.20 ALL COMPACTION METHODS TO BE PERFORMED TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER TO INCLUDE BUT NOT BE LIMITED TO THE THICKNESS OF LIFTS, AND COMPACTION EQUIPMENT USED.

1.21 ALL DISTURBED BOULEVARDS TO BE REINSTATED WITH SOD ON 100mm TOPSOIL.

1.22 UTILITY DUCTS TO BE INSTALLED PRIOR TO ROAD BASE CONSTRUCTION.

1.23 CLAY DIKES TO BE INSTALLED WHERE INDICATED ON THE DRAWINGS OR AS APPROVED AND DIRECTED BY THE GEOTECHNICAL ENGINEER ALL IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.

2.0 SANITARY

2.1 ALL SANITARY SEWER MAINS TO BE CSA CERTIFIED, BELL AND SPIGOT TYPE. ONLY FACTORY FITTINGS TO BE USED. SEWER TO BE INSTALLED AS PER OSPD 1005.01. SANITARY SEWER MATERIALS TO BE:
250mmØ AND SMALLER - PVC DR 35

2.2 ALL SANITARY MAINTENANCE HOLES TO BE 1.2m DIAMETER AS PER CITY OF OTTAWA STANDARDS COMPLETE WITH BENCHING, RUNGS, FRAME AND COVER, DROP PIPES AND LANDINGS WHERE NEEDED.

2.3 SANITARY MANHOLE COVERS TO BE CITY OF OTTAWA STD. S25 (MOD. OPSD. 401.020). SANITARY MANHOLE COVER TO BE CLOSED COVER TYPE, AS PER CITY STANDARD S24.

2.4 SANITARY SEWER LEAKAGE TEST AND CCTV INSPECTION SHALL BE COMPLETED AS PER CITY SPECIFICATIONS PRIOR TO INSTALLATION OF BASE COURSE ASPHALT.

2.5 ANY SANITARY SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR AS APPROVED BY THE ENGINEER.

2.6 CONNECTION TO THE EXISTING SANITARY SEWER TO BE INCLUDED IN THE COST FOR SANITARY SEWER INSTALLATION. THIS INCLUDES REINSTATEMENT OF ROAD CUTS TO CITY STANDARDS.

3.0 STORM

3.1 ALL STORM SEWERS TO BE CSA CERTIFIED, BELL AND SPIGOT TYPE. ALL STORM SEWERS TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. ONLY FACTORY FITTINGS TO BE USED. STORM SEWER MATERIALS TO BE : 375mmØ AND SMALLER - PVC DR 35, 450mmØ AND LARGER - CONC. CL. 100-D, 825mmØ AND LARGER - CONC. CL. 65-D

3.2 ALL STORM MAINTENANCE HOLES TO BE SIZED IN ACCORDANCE WITH THE PLANS AND AS PER CITY OF OTTAWA STANDARDS COMPLETE WITH BENCHING, RUNGS, DROP PIPES AND FRAME AND COVER.

3.3 STORM MH COVERS TO BE OPEN TYPE, AS PER CITY STANDARD S24, FRAMES TO BE PER CITY OF OTTAWA STD. S25. CONTRACTOR TO INSTALL FILTER FABRIC UNDER STORM MH COVER UNTIL SODDING IS COMPLETE.

3.4 STORM MAINTENANCE HOLES TO BE OPSD, SIZE AS SPECIFIED, TAPER TOP.

3.5 ALL CATCH BASINS TO BE AS PER OPSD 705.010, FRAME & FISH TYPE GRATE AS PER CITY OF OTTAWA STD. S19.1.

3.6 ANY STORM SEWER WITH LESS THAN 2.0M COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR AS APPROVED BY THE ENGINEER.

3.7 CONNECTION TO THE EXISTING STORM SEWER TO BE INCLUDED IN THE COST FOR STORM SEWER INSTALLATION.

3.8 CONTRACTOR TO PROVIDE IPEX-TEMPEST HF ICD'S SHOP DRAWINGS, OR EQUIVALENT, FOR ENGINEERS REVIEW PRIOR TO ORDERING ICD'S.

4.0 WATER

4.1 ALL WATERMAINS TO BE PVC DR 18, WITH MINIMUM COVER OF 2.4M AND INSTALLED PER CITY OF OTTAWA STANDARDS. ALL DOMESTIC WATER SERVICES ARE TO BE 200MMØ.

4.2 THRUST BLOCKS TO BE INSTALLED AT ALL BENDS, TEES, AND CAPS ALL AS PER OPSD 1103.01 AND 1103.02.

4.3 CONTRACTOR TO CONDUCT PRESSURE AND LEAKAGE TESTING OF ALL WATERMAINS AND DISINFECT AND CHLORINATE ALL WATERMAINS TO THE SATISFACTION OF M.O.E. AND THE CITY OF OTTAWA.

4.4 TRACER WIRE TO BE INSTALLED ALONG THE FULL LENGTH OF WATERMAIN AND ATTACHED TO EACH MAIN STOP AS PER CITY OF OTTAWA STANDARDS.

4.5 ALL COMPONENTS OF THE WATER DISTRIBUTION SYSTEM SHALL BE CATHODICALLY PROTECTED AS PER CITY OF OTTAWA STANDARDS.

4.6 ALL VALVES & VALVE BOXES AND CHAMBERS, HYDRANTS, AND HYDRANT VALVES AND ASSEMBLIES SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARDS.

4.7 ANY WATERMAIN WITH LESS THAN 2.4M COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR AS APPROVED BY THE ENGINEER.

4.8 CONTRACTOR IS RESPONSIBLE FOR ACQUIRING THE WATER PERMIT FROM THE CITY OF OTTAWA AND PAYMENT OF ANY FEES ASSOCIATED WITH SECURING THE WATER PERMIT. OWNER IS RESPONSIBLE FOR REIMBURSING THE CONTRACTOR FOR THE ACTUAL COST OF ACQUIRING THE WATER PERMIT.

4.9 CONNECTION TO EXISTING WATERMAIN TO BE INCLUDED IN THE COST FOR THE WATERMAIN INSTALLATION. THIS COST INCLUDES REINSTATEMENT OF ROAD CUTS TO CITY STANDARDS.

5.0 PARKING LOT AND WORK IN PUBLIC RIGHTS OF WAY

5.1 CONTRACTOR TO REINSTATE ROAD CUTS PER CITY OF OTTAWA STANDARD R-10.

5.2 THE CONTRACTOR SHALL PREPARE A TRAFFIC MANAGEMENT PLAN FOR REVIEW AND APPROVAL BY THE CITY OF OTTAWA. CONTRACTOR TO MAINTAIN TRAFFIC FLOW DURING THE ENTIRE CONSTRUCTION PERIOD. MAINTENANCE OF ROAD CUTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PROVISION OF FLAGMEN, DETOURS AS NECESSARY, BARRICADES AND SIGNS TO THE FULL SATISFACTION OF THE ENGINEER AND ROAD AUTHORITY SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

5.3 CONTRACTOR TO PREPARE SUBGRADE, INCLUDING PROOFROLLING, TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER PRIOR TO THE COMMENCEMENT OF PLACEMENT OF GRANULAR B MATERIAL.

5.4 FILL TO BE PLACED AND COMPACTED PER THE GEOTECHNICAL REPORT REQUIREMENTS.

5.5 CONTRACTOR TO SUPPLY, PLACE AND COMPACT GRANULAR B MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOETCHNICAL ENGINEER. CONTRACTOR TO PROVIDE ENGINEER WITH SAMPLES OF GRANULAR B MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL ENGINEER THAT THE MATERIAL MEETS THE GRADATION REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.

5.6 GRANULAR A MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL ENGINEER OF GRANULAR B PLACEMENT.

5.7 CONTRACTOR TO SUPPLY, PLACE AND COMPACT GRANULAR A MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOETCHNICAL ENGINEER. CONTRACTOR TO PROVIDE ENGINEER WITH SAMPLES OF GRANULAR A MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL ENGINEER THAT THE MATERIAL MEETS THE GRADATION REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.

5.8 ASPHALT MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL ENGINEER OF GRANULAR A PLACEMENT.

5.9 CONTRACTOR TO SUPPLY, PLACE AND COMPACT ASPHALT MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. CONTRACTOR TO PROVIDE ENGINEER WITH SAMPLES OF ASPHALT MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL ENGINEER THAT THE MATERIAL MEETS THE REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.

5.10 CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING LINE AND GRADE IN ACCORDANCE WITH THE PLANS, AND FOR PROVIDING THE ENGINEER WITH VERIFICATION PRIOR TO PLACEMENT.

5.11 DITCHES DISTURBED DURING CULVERT INSTALLATION AND GRADING OPERATIONS ARE TO BE REINSTATED TO THEIR ORIGINAL CONDITION AND FLOWLINE GRADES.

5.12 ALL EXCESS MATERIAL TO BE HAULED OFFSITE AND DISPOSED OF AT AN APPROVED DUMP SITE. SHOULD THE CONTRACTOR DISCOVER ANY HAZARDOUS MATERIAL, CONTRACTOR IS TO NOTIFY ENGINEER. ENGINEER TO DETERMINE APPROPRIATE DISPOSAL METHOD/LOCATION.

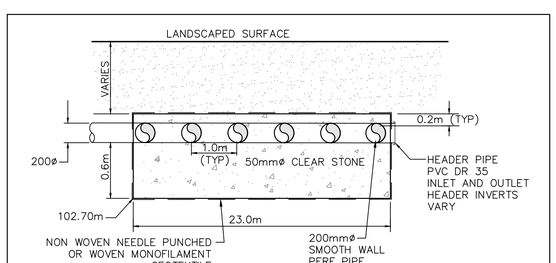
5.13 PAVEMENT STRUCTURE (MATERIAL TYPES AND THICKNESSES) FOR HEAVY DUTY AND LIGHT DUTY AREAS TO BE AS SPECIFIED IN THE GEOTECHNICAL REPORT AND SHOWN ON THE PLANS.

CATCH BASIN DATA TABLE

STRUCTURE ID	AREA ID	STRUCTURE	COVER	ELEVATION			OUTLET PIPE		HEAD	FLOW	ICD TYPE
				TOP OF GRATE	INVERT		DIAMETER	TYPE			
					INLET	OUTLET	(mm)				
CICB25	CICB25	OPSD 705.010	S22 & S23	**105.05**		103.550	200	PVC DR-35	1.85	40.0	Tempest HF
CICB21	CICB21	OPSD 705.010	S22 & S23	**105.05**		103.550	200	PVC DR-35	1.85	50.0	Tempest HF
CICB19	CICB19	OPSD 705.010	S22 & S23	**105.05**		103.550	200	PVC DR-35	1.85	20.0	Tempest HF
CICB15	CICB 14 15	OPSD 705.010	S22 & S23	**105.00**	103.410	103.400	200	PVC DR-35	1.90	6.0	Tempest Vortex
CICB14	CICB 14 15	OPSD 705.010	S22 & S23	**105.00**		103.500	200	PVC DR-35			
CICB16	CICB16	OPSD 705.010	S22 & S23	**105.00**		103.500	200	PVC DR-35	1.85	6.0	Tempest Vortex
CICB17	CICB17	OPSD 705.010	S22 & S23	**105.00**		103.500	200	PVC DR-35	1.85	6.0	Tempest Vortex
CB12	CB12	OPSD 705.010	S19	**104.80**		103.300	200	PVC DR-35	1.90	20.0	Tempest HF
CB10	CB10	OPSD 705.010	S19	**104.75**		103.250	200	PVC DR-35	1.90	20.0	Tempest HF
CB11	CB11	OPSD 705.010	S19	**104.70**		103.200	200	PVC DR-35	2.00	20.0	Tempest HF
CICB18	CICB18	OPSD 705.010	S22 & S23	**104.65**		103.150	200	PVC DR-35	1.85	20.0	Tempest HF
CICB24	CICB24	OPSD 705.010	S22 & S23	**104.65**		103.150	200	PVC DR-35			
CICB23	CICB23	OPSD 705.010	S22 & S23	**104.65**	103.050	103.000	200	PVC DR-35	1.95	6.0	Tempest Vortex
CB3	CB3	OPSD 705.010	S19	**104.55**		103.050	200	PVC DR-35	1.80	65.0	Tempest HF
CICB20	CICB20	OPSD 705.010	S22 & S23	**104.40**		102.900	200	PVC DR-35			
CB8	CB8	OPSD 705.010	S19	**104.40**		102.900	200	PVC DR-35	1.85	105.0	Tempest HF
CICB22	CICB22	OPSD 705.010	S22 & S23	**104.40**		102.900	200	PVC DR-35			
CICB6	CICB 6 7	OPSD 705.010	S22 & S23	**104.38**		102.880	200	PVC DR-35			
CICB7	CICB 6 7	OPSD 705.010	S22 & S23	**104.38**		102.880	200	PVC DR-35			
CB26	L1	OPSD 705.010	S19	**103.70**	102.700	102.700	200	PVC DR-35	2.15	6.0	Tempest Vortex
DI1	L3	OPSD 705.010	S19	**103.45**		101.950	200	PVC DR-35	2.70	6.0	Tempest Vortex
DI2	L2	OPSD 705.010	S19	**103.00**		101.500	200	PVC DR-35	3.35	35.0	Tempest HF

Bold font indicates CB's with ICD's

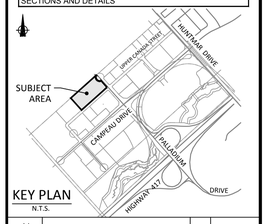
Revision: 2019-09-21



- SMEARING OF NATIVE MATERIAL AT THE INTERFACE WITH THE GALLERY FLOOR MUST BE AVOIDED AND/OR CORRECTED BY RAKING OR ROTO-TILLING
- COMPACTION OF THE GALLERY DURING CONSTRUCTION MUST BE MINIMIZED

INFILTRATION GALLERY SECTION
N.T.S.

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



KEY PLAN
N.T.S.

No.	REVISIONS	By	Date
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TAGGART REALTY MANAGEMENT

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

Project Title
Purolator
DISTRIBUTION KANATA
1400 UPPER CANADA STREET,

LICENCE PROFESSIONAL ENGINEER
T. R. BRULE
2020/09/17
PROVINCE OF ONTARIO

Drawing Title
GENERAL NOTES, LEGEND AND CB DATA TABLE

Scale
N.T.S.

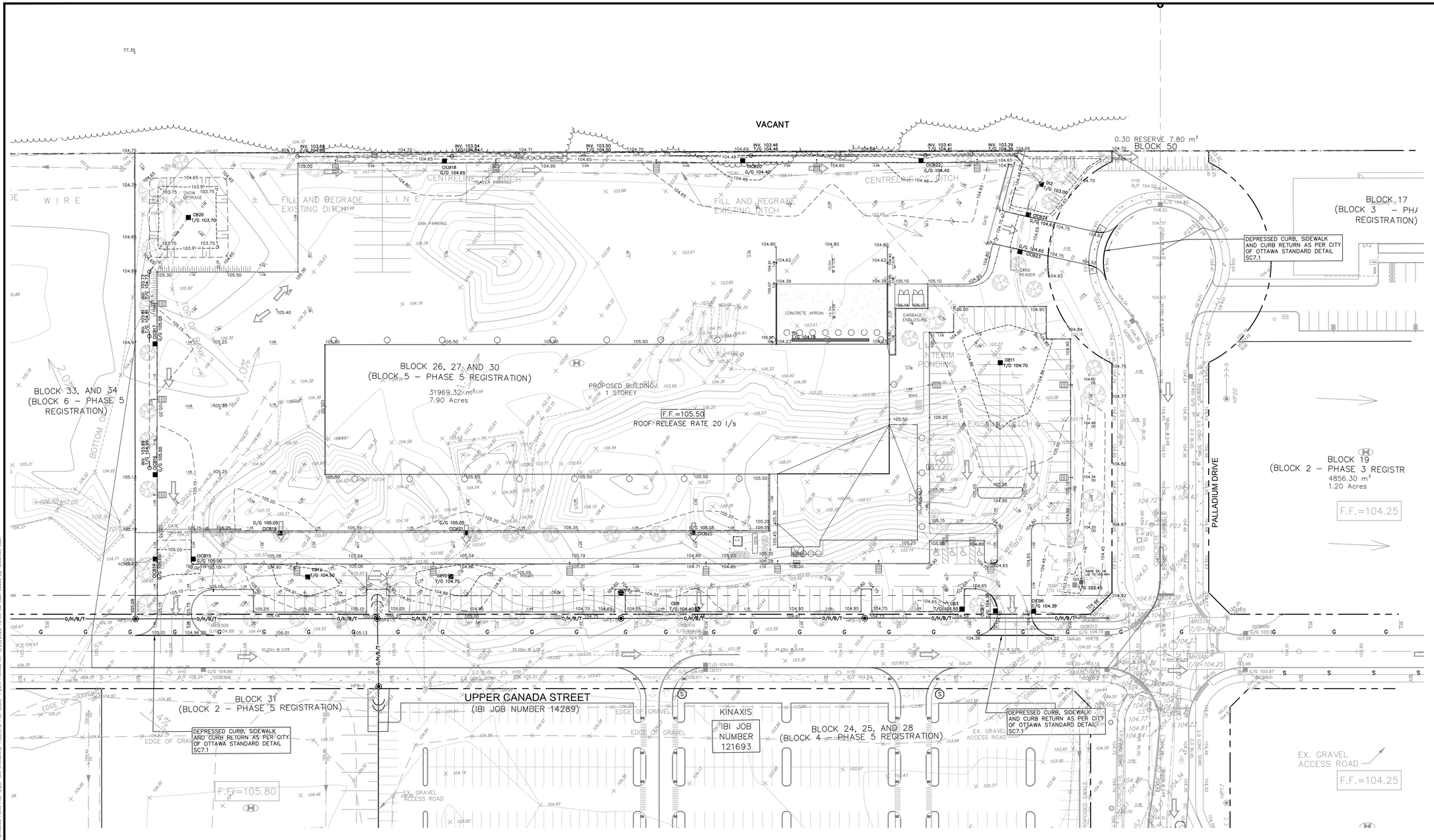
Design	Date
J.B.	AUG . 2020
Drawn	Checked
J.B/D.P.S.	T.R.B.

Project No. 123987

Drawing No. C-010

CITY PLAN No. xxxxx

CITY FILE No. D07-12-20-xxxx



KEY PLAN
N.T.S.

NOTES:
1. SEE DETAIL DRAWING C-010 FOR ADDITIONAL DETAILS AND NOTES.
2. SITE BENCHMARK TO BE OBTAINED FROM LEGAL SURVEYOR STANTEC GEOMATICS.

No.	REVISIONS	By	Date
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Project Title
DISTRIBUTION KANATA
1400 UPPER CANADA STREET,
KANATA, ONTARIO

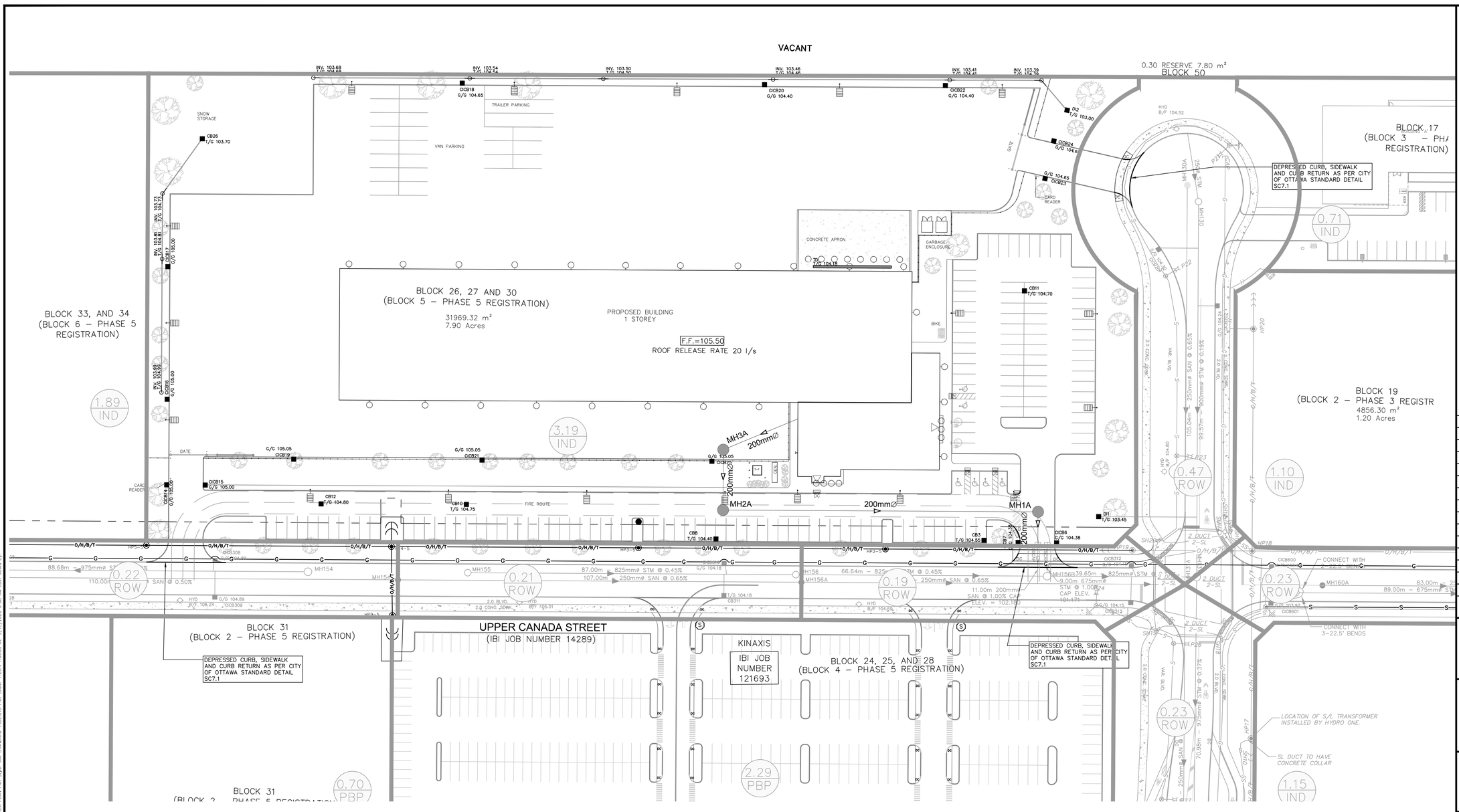
PROFESSIONAL ENGINEER LICENCE
T. R. BRULE
2020/09/17
PROVINCE OF ONTARIO

Drawing Title
SITE GRADING PLAN

Scale
1:500

Design	Date
J.B.	AUG . 2020
Drawn: J.B/D.P.S.	Checked: T.R.B.
Project No.: 123987	Drawing No.: C-200

CITY PLAN No. xxxxx
CITY FILE No. D07-12-20-xxxx



NOTES:

1. SEE DETAIL DRAWING C-010 FOR ADDITIONAL DETAILS AND NOTES.
2. SITE BENCHMARK TO BE OBTAINED FROM LEGAL SURVEYOR STANTEC GEOMATICS.

LEGEND :

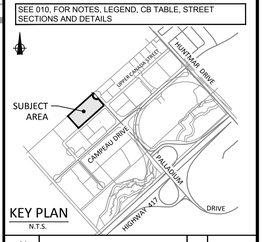
WH
1.01 | 0.0
AREA NUMBER
RUNOFF COEFFICIENT
AREA IN HECTARES

5.14
PBP
AREA IN HECTARES
LAND USE TYPE

PBP	PRESTIGE BUSINESS PARK - 35 000 l/s/ha
IND	LIGHT INDUSTRIAL - 35 000 l/s/ha
COM	COMMERCIAL - 50 000 l/S/ha
ROW	RIGHT OF WAY (INFILTRATION FLOW ONLY)

DRAINAGE AREA LIMITS
EXISTING DRAINAGE AREA LIMITS

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



KEY PLAN
N.T.S.

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Project Title
Purolator
DISTRIBUTION KANATA
1400 UPPER CANADA STREET,

PROFESSIONAL ENGINEER
LICENSED
T. R. BRULE
2020/09/17
PROVINCE OF ONTARIO

Drawing Title
SANITARY DRAINAGE
AREA PLAN

Scale
5 0 5 10
1:500

Design	Date
J.B.	AUG . 2020
Drawn	Checked
J.B/D.P.S.	T.R.B.
Project No.	Drawing No.
123987	C-400

CITY FILE No. D07-12-20-xxxx
CITY PLAN No. xxxxx

J:\123987_ONPurolator\7.0_Production\7.03_Design\04_Civil\Sheets\C-400.dwg Layout Name: C-400 SANITARY DRAINAGE AREA PLAN Plot Style: AIA STANDARD-FULL CTB Plot Scale: 1:25.4 Plotted At: 9/17/2020 9:08 AM Last Saved By: jbrule

JRE 6

VACANT

0.30 RESERVE 7.80 m²
BLOCK 50

BLOCK 33, AND 34
(BLOCK 6 – PHASE 5 REGISTRATION)

BLOCK 26, 27 AND 30
(BLOCK 5 – PHASE 5 REGISTRATION)
31969.32 m²
7.90 Acres

PROPOSED BUILDING
1 STOREY

F.F.=105.50
ROOF RELEASE RATE 20 l/s

BLOCK 19
(BLOCK 2 – PHASE 3 REGISTR
4856.30 m²
1.20 Acres

BLOCK 17
(BLOCK 3 – PHA
REGISTRATION)

Tc=12.70
AC=1.61

Tc=14.55
AC=2.71

Tc=11.50
AC=0.60

Tc=10.10
AC=0.42

Tc=13.35
AC=1.55

Tc=11.25
AC=0.60

Tc=14.95
AC=1.95

DEPRESSED CURB, SIDEWALK AND CURB RETURN AS PER CITY OF OTTAWA STANDARD DETAIL SC7.1

BLOCK 31
(BLOCK 2 – PHASE 5 REGISTRATION)

UPPER CANADA STREET
(IBI JOB NUMBER 14289)

KINAXIS
IBI JOB NUMBER 121693

BLOCK 24, 25, AND 28
(BLOCK 4 – PHASE 5 REGISTRATION)

CONNECT WITH 3-22.5° BENDS

LOCATION OF S/L TRANSFORMER INSTALLED BY HYDRO ONE.

SL DUCT TO HAVE CONCRETE COLLAR

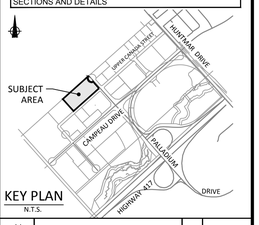
NOTES:

1. SEE DETAIL DRAWING C-010 FOR ADDITIONAL DETAILS AND NOTES.
2. SITE BENCHMARK TO BE OBTAINED FROM LEGAL SURVEYOR STANTEC GEOMATICS.

LEGEND :

- AREA NUMBER
- RUNOFF COEFFICIENT
- AREA IN HECTARES
- EXISTING AREA NUMBER
- EXISTING AREA IN HECTARES
- EXISTING RUNOFF COEFFICIENT
- ESTIMATED TIME OF CONCENTRATION IN MINUTES
- PRODUCT OF AREA AND RUNOFF COEFFICIENT
- DRAINAGE AREA LIMITS
- EXISTING DRAINAGE AREA LIMITS
- EXISTING EMERGENCY OVERLAND FLOW

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



KEY PLAN
N.T.S.

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TAGGART REALTY MANAGEMENT

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Project Title
Purolator
DISTRIBUTION KANATA
1400 UPPER CANADA STREET,

LICENSED PROFESSIONAL ENGINEER
T. R. BRULE
2020/09/17
PROVINCE OF ONTARIO

Drawing Title
STORM DRAINAGE AREA PLAN

Scale
1:500

Design	Date
J.B.	AUG . 2020
Drawn: J.B/D.P.S.	Checked: T.R.B.
Project No. 123987	Drawing No. C-500

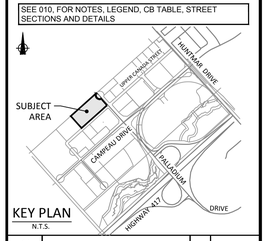
CITY FILE No. D07-12-20-xxxx
CITY PLAN No. xxxxx

NOTES:

1. SEE DETAIL DRAWING C-010 FOR ADDITIONAL DETAILS AND NOTES.
2. SITE BENCHMARK TO BE OBTAINED FROM LEGAL SURVEYOR STANTEC GEOMATICS.

100 YEAR PONDING VOLUME LIMIT
5 YEAR PONDING ELEVATION
MAX PONDING ELEVATION

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



KEY PLAN
N.T.S.

No.	REVISIONS	By	Date
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TAGGART REALTY MANAGEMENT

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Project Title
Purolator
DISTRIBUTION KANATA
1400 UPPER CANADA STREET,
KANATA, ONTARIO

LICENCE PROFESSIONAL ENGINEER
T. R. BRULE
2020/09/17
PROVINCE OF ONTARIO

Drawing Title
PONDING PLAN

Scale
5 0 5 10
1:500

Design	Date
J.B.	AUG . 2020
Drawn	Checked
J.B/D.P.S.	T.R.B.
Project No.	Drawing No.
123987	C-600

CITY PLAN No. xxxxx
CITY FILE No. D07-12-20-xxxx

POND ID	1
TOP OF GRATE (m)	103.70
STATIC ELEV (m)	104.65
STATIC DEPTH (m)	0.95
STATIC VOLUME (m³)	297.37

POND ID	2
TOP OF GRATE (m)	104.65
STATIC ELEV (m)	104.80
STATIC DEPTH (m)	0.15
STATIC VOLUME (m³)	9.54

POND ID	3
TOP OF GRATE (m)	103.00
STATIC ELEV (m)	104.65
STATIC DEPTH (m)	1.55
STATIC VOLUME (m³)	310.97

POND ID	4
TOP OF GRATE (m)	104.65
STATIC ELEV (m)	104.75
STATIC DEPTH (m)	0.10
STATIC VOLUME (m³)	6.39

POND ID	6
TOP OF GRATE (m)	104.70
STATIC ELEV (m)	105.00
STATIC DEPTH (m)	0.30
STATIC VOLUME (m³)	140.86

POND ID	7
TOP OF GRATE (m)	103.45
STATIC ELEV (m)	104.45
STATIC DEPTH (m)	1.0
STATIC VOLUME (m³)	158.46

POND ID	8
TOP OF GRATE (m)	104.55
STATIC ELEV (m)	104.65
STATIC DEPTH (m)	0.10
STATIC VOLUME (m³)	1.55

POND ID	9
TOP OF GRATE (m)	104.40
STATIC ELEV (m)	104.55
STATIC DEPTH (m)	0.15
STATIC VOLUME (m³)	5.93

POND ID	10
TOP OF GRATE (m)	105.05
STATIC ELEV (m)	105.20
STATIC DEPTH (m)	0.15
STATIC VOLUME (m³)	5.03

POND ID	11
TOP OF GRATE (m)	104.75
STATIC ELEV (m)	104.95
STATIC DEPTH (m)	0.20
STATIC VOLUME (m³)	22.62

POND ID	12
TOP OF GRATE (m)	105.05
STATIC ELEV (m)	105.20
STATIC DEPTH (m)	0.15
STATIC VOLUME (m³)	3.80

POND ID	13
TOP OF GRATE (m)	104.80
STATIC ELEV (m)	105.00
STATIC DEPTH (m)	0.20
STATIC VOLUME (m³)	20.47

POND ID	14
TOP OF GRATE (m)	105.05
STATIC ELEV (m)	105.20
STATIC DEPTH (m)	0.15
STATIC VOLUME (m³)	7.40

POND ID	15
TOP OF GRATE (m)	105.00
STATIC ELEV (m)	105.10
STATIC DEPTH (m)	0.10
STATIC VOLUME (m³)	7.29

POND ID	16
TOP OF GRATE (m)	105.00
STATIC ELEV (m)	105.15
STATIC DEPTH (m)	0.15
STATIC VOLUME (m³)	12.27

POND ID	17
TOP OF GRATE (m)	105.00
STATIC ELEV (m)	105.15
STATIC DEPTH (m)	0.15
STATIC VOLUME (m³)	5.81

BLOCK 26, 27 AND 30
(BLOCK 5 – PHASE 5 REGISTRATION)
31969.32 m²
7.90 Acres

PROPOSED BUILDING
1 STOREY

F.F.=105.50
ROOF RELEASE RATE 20 l/s

BLOCK 33, AND 34
(BLOCK 6 – PHASE 5 REGISTRATION)

BLOCK 31
(BLOCK 2 – PHASE 5 REGISTRATION)

F.F.=105.80

UPPER CANADA STREET
(IBI JOB NUMBER 14289)

KINAXIS
IBI JOB NUMBER 121693

BLOCK 24, 25, AND 28
(BLOCK 4 – PHASE 5 REGISTRATION)

0.30 RESERVE 7.80 m²
BLOCK 50

AREA OF INTERIM PONDING

PALLADIUM DRIVE

DEPRESSED CURB, SIDEWALK AND CURB RETURN AS PER CITY OF OTTAWA STANDARD DETAIL SC7.1

FILL AND REGRADE EXISTING DITCH

EX. GRAVEL ACCESS ROAD

PROPOSED SWALE

TRAILER PARKING

VAN PARKING

SNOW STORAGE

CONCRETE APRON

GARBAGE ENCLOSURE

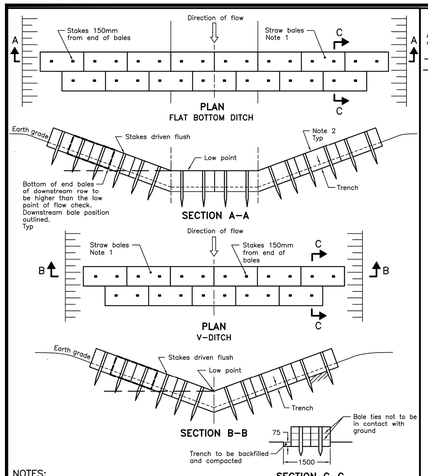
CARD READER

BIKE

GATE

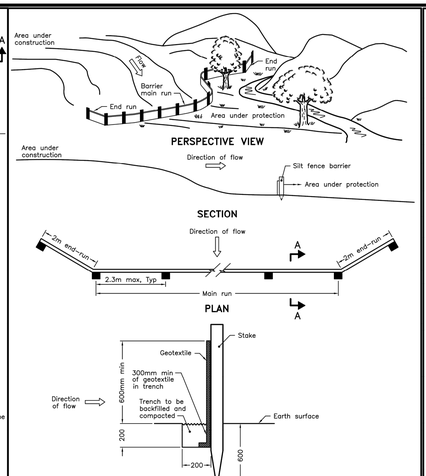
FIRE ROUTE

TEMP. INTERIM PONDING T/G 103.45



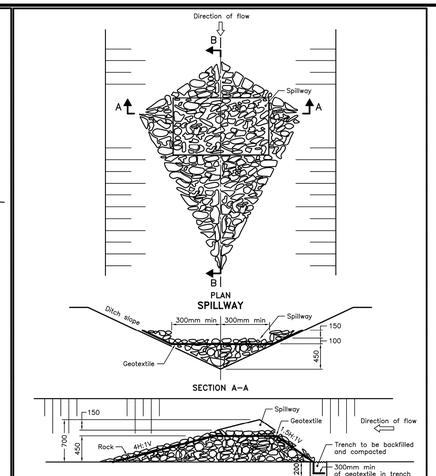
NOTES:
1 Number of bales varies to suit ditch.
2 Straw bales to be butted tightly against adjoining bales and shaped to conform to the sides of the ditch to prevent water flow through barrier.
A All dimensions are in millimetres unless otherwise shown.

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

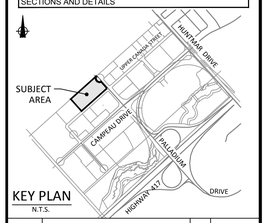
NOTES:

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. 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.
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. CONTRACTOR TO PROTECT EXISTING CATCHBASINS WITH FILTER CLOTH UNDER THE COVERS TO TRAP SEDIMENTATION. REFER TO IDENTIFIED STRUCTURES.

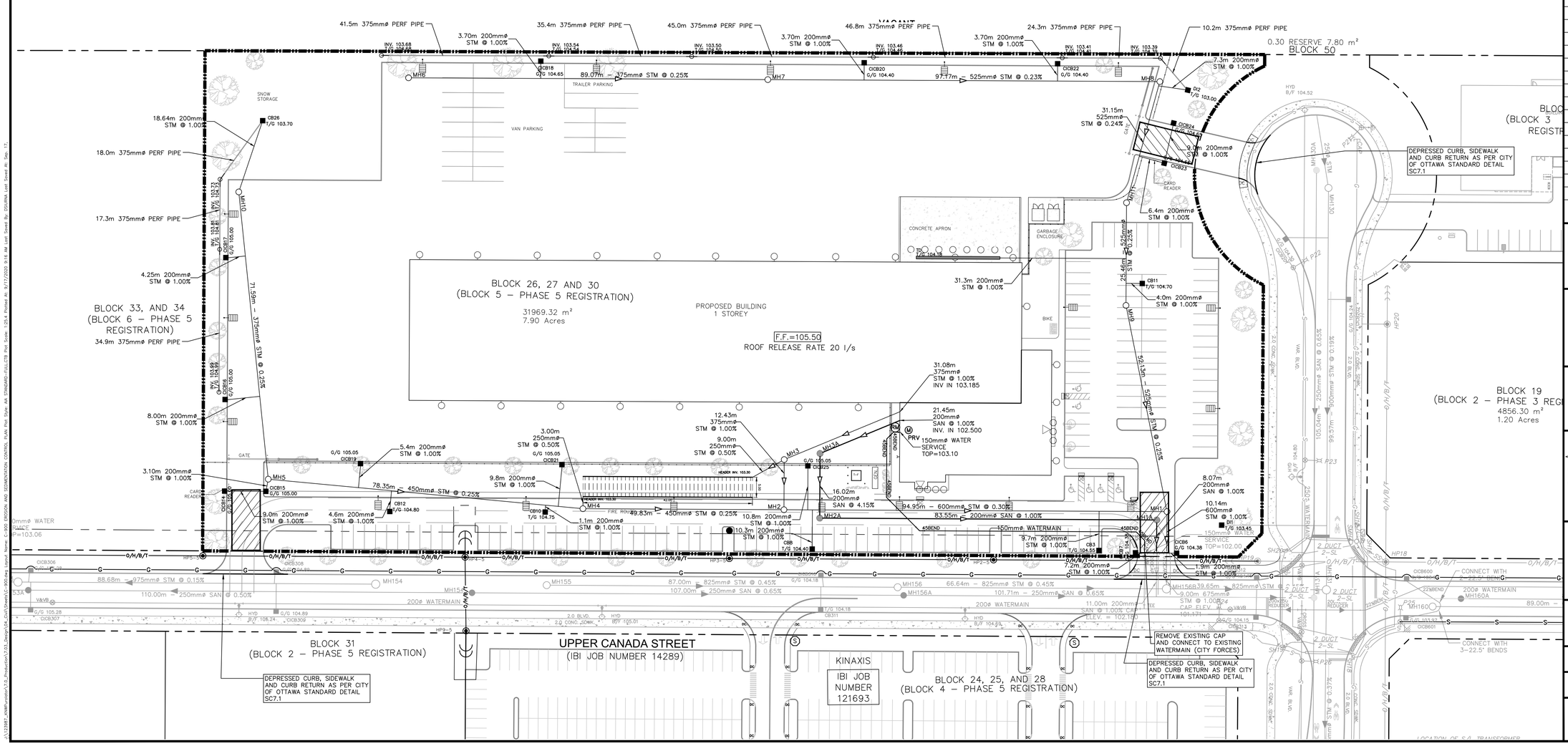
LEGEND :

- 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 (7.0 x 15.0)

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



KEY PLAN
N.T.S.


41.5m 375mmø PERF PIPE
3.70m 200mmø STM @ 1.00%
35.4m 375mmø PERF PIPE
45.0m 375mmø PERF PIPE
46.8m 375mmø PERF PIPE
VACANT
3.70m 200mmø STM @ 1.00%
24.3m 375mmø PERF PIPE
10.2m 375mmø PERF PIPE
0.30 RESERVE 7.80 m²
BLOCK 50
7.3m 200mmø STM @ 1.00%
MH6
MH7
MH8
89.07m – 375mmø STM @ 0.25%
97.17m – 525mmø STM @ 0.23%
CICB18 G/G 104.65
CICB20 G/G 104.40
CICB22 G/G 104.40
D2 T/G 103.00
TRAILER PARKING
VAN PARKING
SNOW STORAGE
18.64m 200mmø STM @ 1.00%
CB26 T/G 103.70
18.0m 375mmø PERF PIPE
17.3m 375mmø PERF PIPE
4.25m 200mmø STM @ 1.00%
34.9m 375mmø PERF PIPE
BLOCK 33, AND 34 (BLOCK 6 – PHASE 5 REGISTRATION)
71.58m – 375mmø STM @ 0.25%
MH10
MH11
MH12
CICB17 G/G 103.00
CICB16 G/G 103.00
8.00m 200mmø STM @ 1.00%
3.10m 200mmø STM @ 1.00%
MH5
CICB15 G/G 105.00
CICB14
CARD READER
GATE
9.0m 200mmø STM @ 1.00%
5.4m 200mmø STM @ 1.00%
4.6m 200mmø STM @ 1.00%
78.35m – 450mmø STM @ 0.25%
CB12 T/G 104.80
CICB19
CICB21
3.00m 250mmø STM @ 0.50%
9.8m 200mmø STM @ 1.00%
12.43m 375mmø STM @ 1.00%
9.00m 250mmø STM @ 0.50%
MH3
MH3A
MH4
MH2
MH2A
MH1
MH1A
CB10 T/G 104.75
CB9 T/G 104.40
CB8 T/G 104.40
CICB25
1.1m 200mmø STM @ 1.00%
10.8m 200mmø STM @ 1.00%
10.3m 200mmø STM @ 1.00%
89.83m – 450mmø STM @ 0.25%
16.02m 200mmø SAN @ 4.15%
94.95m – 600mmø STM @ 0.30%
83.55m – 200mmø SAN @ 1.00%
21.45m 200mmø SAN @ 1.00% INV. IN 102.500
PRV 150mmø WATER SERVICE TOP=103.10
31.08m 375mmø STM @ 1.00% INV IN 103.185
HEADER WK. 103.30
HEADER WK. 103.20
CONCRETE APRON
GARBAGE ENCLOSURE
TD T/G 104.18
31.3m 200mmø STM @ 1.00%
BLOCK 26, 27 AND 30 (BLOCK 5 – PHASE 5 REGISTRATION)
31969.32 m²
7.90 Acres
PROPOSED BUILDING 1 STOREY
F.F.=105.50
ROOF RELEASE RATE 20 l/s
BLOCK 31 (BLOCK 2 – PHASE 5 REGISTRATION)
UPPER CANADA STREET
(IBI JOB NUMBER 14289)
KINAXIS
IBI JOB NUMBER 121693
BLOCK 24, 25, AND 28 (BLOCK 4 – PHASE 5 REGISTRATION)
DEPRESSED CURB, SIDEWALK AND CURB RETURN AS PER CITY OF OTTAWA STANDARD DETAIL SC7.1
31.15m 525mmø STM @ 0.24%
CICB24 T/G 104.00
9.0m 200mmø STM @ 1.00%
CICB23
6.4m 200mmø STM @ 1.00%
525mmø STM @ 0.25%
25.46m STM @ 0.25%
CB11 T/G 104.70
4.0m 200mmø STM @ 1.00%
MH9
59.13m 525mmø STM @ 0.25%
BIKE
BLOCK 19 (BLOCK 2 – PHASE 3 REG
4856.30 m²
1.20 Acres
8.07m 200mmø SAN @ 1.00%
10.14m 600mmø STM @ 1.00%
SERVICE TOP=102.00
150mmø WATER
1.9m 200mmø STM @ 1.00%
7.2m 200mmø STM @ 1.00%
CB3 T/G 104.55
CICB6 G/G 104.38
150mmø WATERMAIN
9.7m 200mmø STM @ 1.00%
45BEND
MH156
39.65m 825mmø STM @ 0.45%
9.0m 675mmø STM @ 1.00%
CAP ELEV. = 101.171
MH156A
101.71m – 250mmø SAN @ 0.65%
11.0m 200mmø STM @ 1.00%
CAP ELEV. = 102.180
REMOVE EXISTING CAP AND CONNECT TO EXISTING WATERMAIN (CITY FORCES)
DEPRESSED CURB, SIDEWALK AND CURB RETURN AS PER CITY OF OTTAWA STANDARD DETAIL SC7.1
MH160
MH160A
CONNECT WITH 3-22.5° BENDS
200ø WATERMAIN
89.00m –
CICB600
CICB601
MH154
MH155
MH156
MH156A
88.68m – 975mmø STM @ 0.15%
110.00m – 250mmø SAN @ 0.50%
87.00m – 825mmø STM @ 0.45%
107.00m – 250mmø SAN @ 0.65%
66.64m – 825mmø STM @ 0.45%
200ø WATERMAIN
CICB307
CICB308
CICB306
CICB309
CB311
HYD B/F 104.52
HYD B/F 104.24
HYD B/F 104.89
HYD B/F 104.18
HYD B/F 104.04
HYD B/F 105.01
HYD B/F 104.90
HYD B/F 104.80
HYD B/F 104.15
CICB313
CICB312
CICB310
CICB311
2.0 BLVD.
2.0 CONC. SDWK
2 DUCT 2-SL
2 DUCT 2-SL REDUCER
22.5MBEND
45BEND
HP1–5
HP2–5
HP3–5
HP9–5
HP18
HP19
HP20
HP23
HP26
SH20
SH21
SH22
SH23
SH24
SH25
SH26
SH27
SH28
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SH42
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SH49
SH50
SH51
SH52
SH53
SH54
SH55
SH56
SH57
SH58
SH59