

LEGEND

CONTROL / MONUMENTS / PROPERTY / SURVEY

- IB ■ IRON BAR
- SIB ■ STANDARD IRON BAR
- RIB ● ROUND IRON BAR
- CC ✕ CUT CROSS
- CM # CONCRETE MONUMENT
- NL ○ NAIL
- TSP ▲ TOTAL STATION POINT
- BM # BENCHMARK
- PROPERTY LINE / RIGHT-OF-WAY / EASEMENT

GROUND FEATURES / SURFACE OBJECTS / GRADING

- 101.21 x PROPOSED GRADING ELEVATIONS
- 100.00 x EXISTING GRADE ELEVATIONS
- ➔ MAJOR OVERLAND FLOW ROUTE
- 0.0% SURFACE GRADE (SLOPE%)
- x FENCE LINES
- ⌒ FENCE GATE
- Max Pond LIMIT OF MAXIMUM PONDING
- ===== PROPOSED CURB
- ===== PROPOSED DEPRESSED CURB
- _____ TOP OF BANK
- ~~~~~ PROPOSED SILT FENCE
- [Pattern] PROPOSED CONCRETE SIDEWALK/WALKWAY
- [Pattern] PROPOSED HEAVY DUTY ASPHALT
- [Pattern] PROPOSED LIGH DUTY ASPHALT
- [Pattern] PROPOSED UNIT PAVERS
- [Pattern] PROPOSED STONEDUST PATH

WATER / STORM / SANITARY

- W — PROPOSED WATERMAIN
- (M) REMOTE WATER METER
- (W) WATER METER
- EFH EXISTING FIRE HYDRANT
- NFH NEW FIRE HYDRANT
- WV PROPOSED WATER VALVE
- DRAINAGE MANHOLE
- ⊕ CATCH BASIN MANHOLE
- CATCH BASIN (SINGLE)
- REAR YARD CATCH BASIN/ TWIN CATCH BASIN
- STM — PROPOSED STORM SEWER
- PROPOSED HDPE PERFORATED PIPE
- SD ----- PROPOSED SUBDRAIN
- SANITARY MANHOLE
- SAN — PROPOSED SANITARY SEWER
- ┌ PROPOSED CAP (STORM, SANITARY & WATER)

MISCELANEOUS

- [Symbol] BIKE RACK
- [Symbol] EARTH BINS
- [Symbol] BARRIER FREE PARKING SYMBOL
- (A1) AREA ID
- 0.094 0.90 RUNOFF COEFFICIENT
- AREA (ha)
- ===== PROPOSED DRAINAGE AREA BOUNDARY
- [Symbol] PROPOSED BUILDING



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No.	DESCRIPTION	YYYY-MM-DD
1	ISSUED FOR SITE PLAN CONTROL	2019-11-28

N45 ARCHITECTURE INC.
 43 Eccles Street, 2nd Floor - Ottawa, Ontario, K1R 6S3
 tel. 613.224.0095 fax 613.224.9811

project

seal

drawing title	
LEGEND	
scale N.T.S.	drawn by M.S.
date NOV 2019	checked by B.K.
project number	drawing number C01
CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE WORK COMMENCES. DO NOT SCALE DRAWINGS.	
	revision

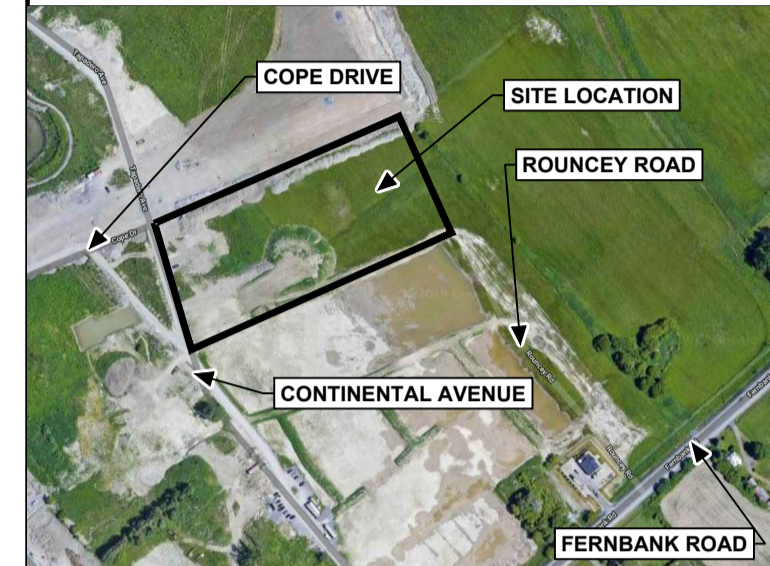
WATER SERVICE TABLE					
ID	DESCRIPTION	FINISHED GRADE (m)	T/O WATERMAIN (m)	CHAINAGE (m)	OFFSET (m)
1	CONNECTION TO EXISTING STUB	101.120	98.72	0+000	0.00
2	45° BEND	100.700	98.30	0+013.78	0.00
3	45° BEND	100.720	98.32	0+016.98	0.00
4	45° BEND	100.630	97.81	0+041.87	0.00
5	200 X 150 TEE	100.71	98.31	0+059.26	0.00
6	45° BEND	100.72	98.32	1+008.44	0.00
7	150 X 150 TEE	100.83	98.43	1+050.71	0.00
8	150mm VALVE	100.83	98.43	1+050.71	1.00
9	PROPOSED FIRE HYDRANT	100.83	98.43	1+050.71	2.50
10	CAP	100.85	98.45	1+052.71	0.00
11	45° BEND	100.720	98.32	0+062.56	0.00
12	200 X 150 TEE	101.000	98.60	0+087.95	0.00
13	150mm VALVE	101.010	98.61	0.087.95	1.00
14	PROPOSED FIRE HYDRANT	100.810	98.41	0+087.95	19.56
15	CONNECTION AT BUILDING FOUNDATION	101.100	98.70	0+095.64	0.00

NOTE: PROVIDE MINIMUM 2.4m COVER OVER T/O WATERMAIN TO FINISHED GRADE, OTHERWISE PROVIDE THERMAL INSULATION HL40 AS PER DETAIL 2/C1.

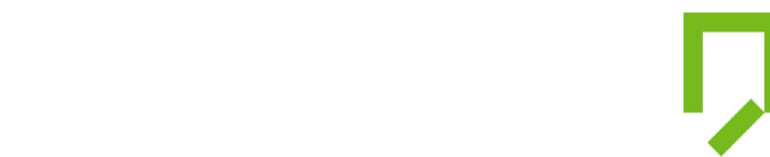
CROSSING TABLE					
LOCATION	OVER / UNDER	FINISHED GRADE (m)	INVERT	OBVERT	CLEARANCE (m)
1	PROP. WATERMAIN / PROP. SANITARY	100.72	98.12 (WATERMAIN)	97.53 (SANITARY)	0.59
2	PROP. STORM SEWER / PROP. SANITARY SEWER	100.56	98.41 (STORM)	97.68 (SANITARY)	0.63
3	PROP. STORM SEWER / PROP. WATERMAIN	100.56	98.41 (STORM)	97.81 (WATERMAIN)	0.50
4	PROP. WATERMAIN / PROP. SANITARY SEWER	100.72	98.13 (WATERMAIN)	97.80 (SANITARY)	0.33
5	PROP. STORM SEWER / PROP. WATERMAIN	100.73	98.54 (STORM)	97.94 (WATERMAIN)	0.50

INLET CONTROL DEVICE SCHEDULE				
ID	OUTLET PIPE DIAMETER (mm)	TYPE	RELEASE RATE (l/s)	HEAD (m)
CBMH6	825	TEMPEST	530.0	2.11

MANHOLE AND CATCHBASIN SCHEDULE				
STRUCTURE ID	TOP OF FRAME ELEVATION (m)	PIPE INVERT ELEVATION (m)	STRUCTURE DIAMETER (mm) / OPSD No.	FRAME (CITY OF OTTAWA OR OPSD)
CB-1	100.600	99.82 E	600 / 705.01	S25 / S19
CB-2	100.650	99.66 E	600 / 705.010	S25 / S19
CB-3	100.600	99.16 S	600 / 705.01	S25 / S19
CB-4	100.470	99.03 S	600 / 705.01	S25 / S19
CBMH1	100.700	99.62 W / 99.54 S	1200 / 701.010	S25 / S28.1
CBMH2	100.750	99.46 NW / 99.46 W / 99.38 SE	1200 / 701.010	S25 / S28.1
CBMH3	100.650	99.14 NE / 99.22 NW / 99.53 S	1200 / 701.010	S25 / S28.1
CBMH4	100.600	98.98 NW / 99.20 N / 98.83 NE	1200 / 701.010	S25 / S28.1
CBMH5	100.560	98.49 NW / 98.66 SE / 98.43 E	1500 / 701.011	S25 / S28.1
CBMH6	100.500	98.27 SE / 98.70 N / 98.10 SW	1500 / 701.011	S25 / S28.1
STMH1	100.700	98.56 SE / 98.86 NW / 98.62 W	1200 / 701.010	S25 / S24.1
STMH2	101.120	97.97 NW / 97.91 NE	1800 / 701.012	S25 / S24.1
TCB1	100.900	99.90 S / 99.90 E	S30	S30
TCB2	100.900	99.83 E / 99.83 W	S30	S30
TCB3	100.900	99.75 E / 99.75 W	S30	S30
TCB4	100.900	99.68 E / 99.68 W	S30	S30
TCB5	100.900	99.61 W / 99.61 S	S30	S30
TCB6	100.900	99.73 N / 99.73 E	S30	S30
TCB7	100.900	99.65 E / 99.65 W	S30	S30
TCB8	100.900	99.58 E / 99.58 W	S30	S30
TCB9	100.900	99.50 E / 99.50 W	S30	S30
TCB10	100.900	99.43 N / 99.43 E / 99.43 W	S30	S30
TCB11	100.900	99.47 SE	S31	S31
TCB12	100.750	99.45 S	S31	S31
TCB13	100.750	99.35 N / 99.35 S	S30	S30
TCB14	100.710	99.15 E / 99.15 W	S30	S30
TCB15	100.660	98.98 E / 98.98 W	S30	S30
TCB16	100.610	98.81 N / 98.81 W	S30	S30
RYCB1	100.680	99.68 N	S31	S31
RYCB2	100.760	99.28 E / 99.28 W	S30	S30
SANMH1	100.710	97.68 NW / 97.62 SE	1200 / 701.010	S25 / S24
SANMH2	100.580	97.55 NW / 97.49 S	1200 / 701.010	S25 / S24
SANMH3	100.720	97.39 NW / 97.33 E	1200 / 701.010	S25 / S24
EXSANMH	101.120	97.26 NW / 97.23 E	N/A	N/A



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project

seal

drawing title	
SERVICING TABLES	
scale N.T.S	drawn by M.S.
date NOV 2019	checked by B.K.
project number	drawing number C02
CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE WORK COMMENCES. DO NOT SCALE DRAWINGS.	
revision	

GENERAL NOTES

- DESIGN AND CONSTRUCTION IS TO BE IN ACCORDANCE WITH MOST RECENT ONTARIO BUILDING CODE.
- THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND VERIFYING ALL DIMENSIONS WITH RESPECT TO SITE CONDITIONS AND ALL MATERIALS TO THE PROJECT. ANY DISCREPANCY SHALL BE REPORTED TO THE ENGINEER.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL MATERIAL RELEVANT TO THE PROJECT.
- ADDITIONAL DRAWINGS MAY BE ISSUED FOR CLARIFICATION TO ASSIST PROPER EXECUTION OF WORK. SUCH DRAWINGS WILL HAVE THE SAME MEANING AND INTENT AS IF THEY WERE INCLUDED WITH THE CONTRACT DOCUMENTS.
- ALL UNITS ARE IN METERS UNLESS NOTED OTHERWISE.
- CONTRACTOR MUST COMPLY WITH LOCAL BY-LAWS, CANADIAN CONSTRUCTION SAFETY CODE AND ALL REGULATIONS SET BY AUTHORITIES HAVING JURISDICTION. IN CASE OF CONFLICT OR DISCREPANCY, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
- CONTRACTOR RESPONSIBLE FOR OBTAINING ALL REQUIRED UTILITY LOCATES, INSPECTIONS, PERMITS, AND APPROVALS, INCLUDING ALL ASSOCIATED COSTS. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE ONLY AND BASED ON BEST AVAILABLE INFORMATION.

DRAWING NOTES

- CONNECT NEW PLAY AREA SUB-DRAIN TO NEW 250mmØ STORM SEWER STUB. PROVIDE WATERTIGHT CONNECTION WITH SOLENO PRE-MANUFACTURED END CAP OR APPROVED EQUIVALENT FITTED FOR A 250mm PVC PIPE.
- CONNECT NEW 200mmØ WATERMAIN TO EXISTING 200mmØ STUB. CONTRACTOR TO COORDINATE WITH CITY OF OTTAWA FORCES.
- SUPPLY AND INSTALL NEW 200mmØ PVC DR18 WATERMAIN WITH MINIMUM 2.4m COVER. OTHERWISE PROVIDE THERMAL INSULATION IN ACCORDANCE WITH CITY OF OTTAWA STANDARD DETAIL DRAWING W22.
- BREAK INTO EXISTING SANITARY MANHOLE AND CONNECT NEW 200mm Ø PVC SANITARY SEWER TO EXISTING MANHOLE. ADJUST BENCHING TO SUIT NEW SANITARY SEWER CONNECTION. PROVIDE WATERTIGHT CONNECTION.
- REMOVE EXISTING 1500mmØ MANHOLE AND REPLACE WITH NEW 1800mm Ø MANHOLE STMH-2. PROVIDE WATERTIGHT CONNECTION. S TO EXISTING AND NEW STORM SEWERS.
- INSTALL SILT FENCE IN ACCORDANCE WITH OPSD 219.130.

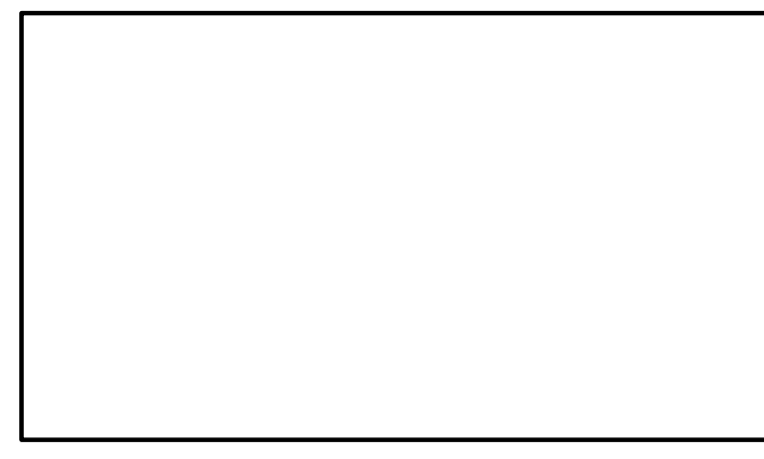
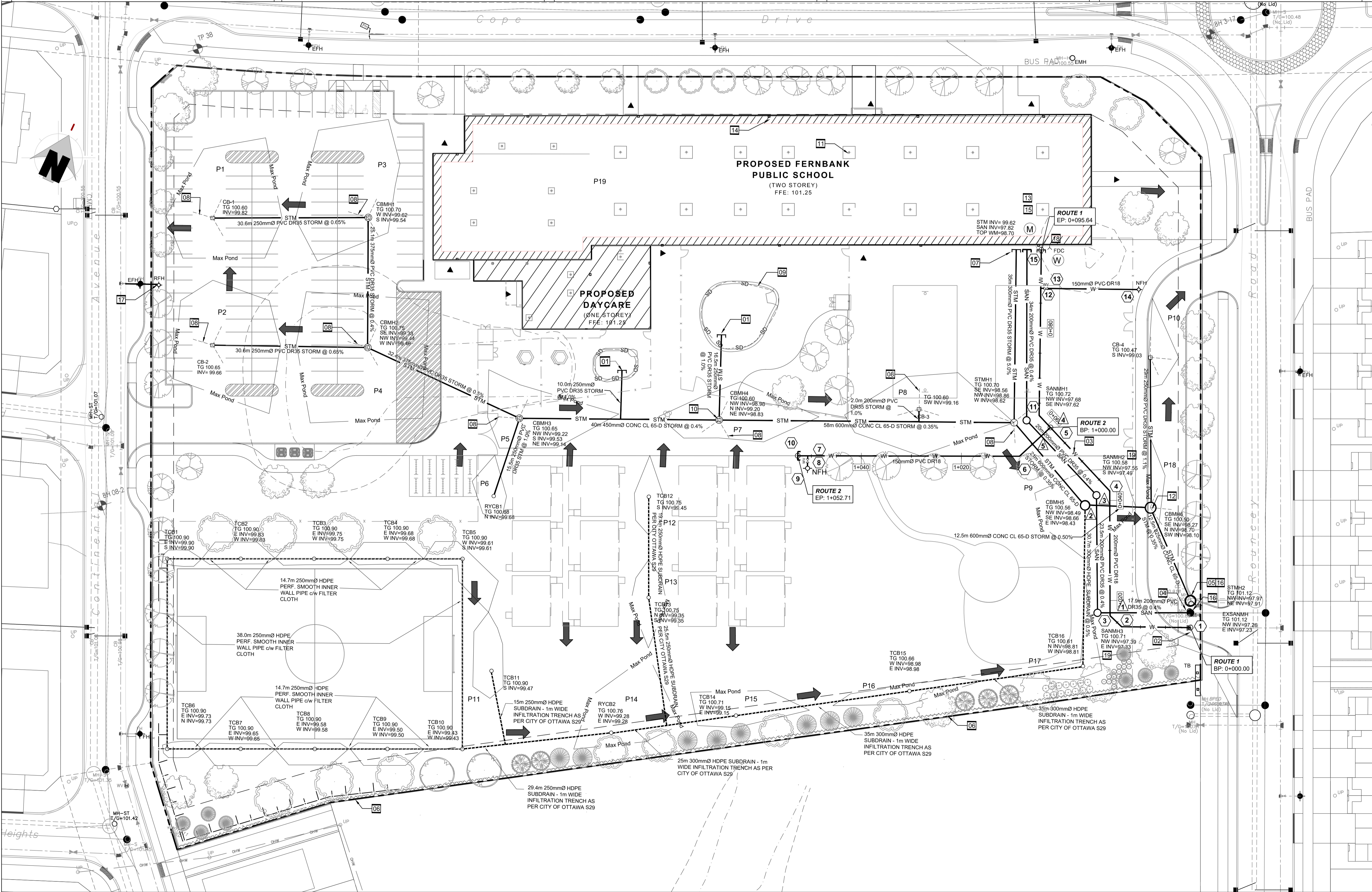
DRAWING NOTES (Continued)

- CONNECT SERVICES TO INTERIOR PLUMBING 1m FROM BUILDING FOUNDATION. SEE MECHANICAL AND ARCHITECTURAL PLANS.
- INSTALL 3.0m LONG 100mmØ PERFORATED DRAIN PIPE c/w FILTER SOCK, EXTENDING FROM CBMH / STMH AT PAVEMENT SUBGRADE LEVEL.
- INSTALL NEW 100mmØ PERFORATED DRAIN PIPE c/w FILTER SOCK SURROUNDED IN 25mm CLEAR STONE, 150mm IN DEPTH. REFER TO LANDSCAPE PLAN FOR EXACT LOCATION.
- CONNECT PLAY AREA SUBDRAIN TO STORM MANHOLE.
- WATTS RD-100 FLOW CONTROL ROOF DRAIN OR APPROVED EQUIVALENT TO BE INSTALLED MAXIMUM DISCHARGE 0.63l/s PER ROOF DRAIN. MAXIMUM DISCHARGE 18.3 l/s TOTAL. 100-YEAR ROOF PONDING DEPTH 0.12m.
- INSTALL FLOW REGULATOR INSIDE CATCHBASIN MANHOLE CBMH6 OUTLET. MAXIMUM DISCHARGE 530.0 l/s, MAXIMUM HEAD 2.11 m. IPEX TEMPEST ORIFICE PLATE OR APPROVED EQUIVALENT.
- INSTALL PRESSURE REDUCING VALVE. REFER TO MECHANICAL PLANS.

DRAWING NOTES (Continued)

- NEW EMERGENCY OVERFLOW SCUPPER.
- INSTALL BACKFLOW PREVENTER VALVE. REFER TO MECHANICAL PLANS.
- EXISTING MANHOLE INVERTS, STMH2 AND EXSANMH, TO BE CONFIRMED PRIOR TO CONSTRUCTION. INVERT ELEVATIONS FOR MANHOLES AND CATCHBASINS LOCATED ON "MANHOLE AND CATCHBASIN SCHEDULE" ON DRAWING C02.
- EXISTING FIRE HYDRANT TO BE RELOCATED BEHIND NEW LAYBY.
- SIAMESE CONNECTION
- PROVIDE WATERTIGHT SANITARY MANHOLE COVER TO SANMH2 AND SANMH3

DRAWING NOTES (Continued)



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project

seal

drawing title	
SITE SERVICING PLAN	
scale 1:400	drawn by M.S.
date NOV 2019	checked by B.K.
project number	drawing number C03
CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE WORK COMMENCES. DO NOT SCALE DRAWINGS.	
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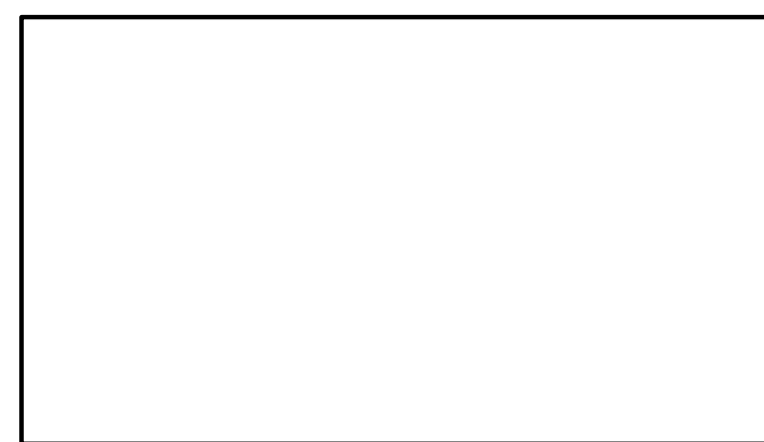
- GENERAL NOTES**
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- DRAWING NOTES**
- MATCH EXISTING GRADES AT PROPERTY LINES AND LIMITS OF WORK.
 - CONNECT NEW SIDEWALK TO MATCH EXISTING SIDEWALK ELEVATION
 - INSTALL SILT FENCE IN ACCORDANCE TO OPSD 219.130
 - NEW EMERGENCY OVERFLOW SCUPPER
 - NEW ROOF DRAIN.
 - ANY DISTURBED AREA WITHIN THE RIGHT-OF-WAY SHALL BE REINSTATED TO EQUAL OR BETTER CONDITION TO THE SATISFACTION OF THE CITY OF OTTAWA AND IN ACCORDANCE WITH THE CITY STANDARDS FOR ROAD CUTS
 - PROVIDE CURB CUT PER DETAIL 4/C05
 - LIGHT DUTY ASPHALT PER DETAIL 1/C3
 - HEAVY DUTY ASPHALT PER DETAIL 2/C3
 - PROVIDE DEPRESSED SIDEWALK ACCESS
 - STONEDUST PATHWAY - SEE LANDSCAPE

- DRAWING NOTES (Continued)**

- EROSION AND SEDIMENT CONTROL NOTES**
- THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATER COURSE, DURING CONSTRUCTION ACTIVITIES; THIS INCLUDES LIMITING THE AMOUNT OF EXPOSED SOIL, INSTALLING SILT FENCES AND OTHER EFFECTIVE SEDIMENT TRAPS, AND INSTALLING AND MAINTAINING MUD MATS FOR OUTGOING CONSTRUCTION TRAFFIC DURING CONSTRUCTION ACTIVITIES.
 - PREVENT SOIL LOSS DURING CONSTRUCTION (BY STORM WATER RUNOFF OR WIND EROSION).
 - PROTECT TOPSOIL BY STOCKPILING FOR REUSE.
 - PREVENT SEDIMENTATION OF STORM SEWERS AND RECEIVING STREAMS.
 - PREVENT AIR POLLUTION FROM DUST AND PARTICULATE MATTER.
 - ALL STORM MANHOLES AND CATCHBASIN MANHOLES TO HAVE 300mm SUMP; ALL CATCHBASINS TO HAVE 600mm SUMPS.
 - INSTALL FILTER BAG INSERT IN ALL STORM MANHOLES AND CATCH BASINS IMPACTED DURING CONSTRUCTION, INCLUDING CATCH BASINS IN THE RIGHT OF WAY.
 - STORM WATER PUMPED INTO CITY SERVICE SHALL FLOW THROUGH A FILTER SOCK.

- EROSION AND SEDIMENT NOTES (Continued)**
- THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENTATION CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.



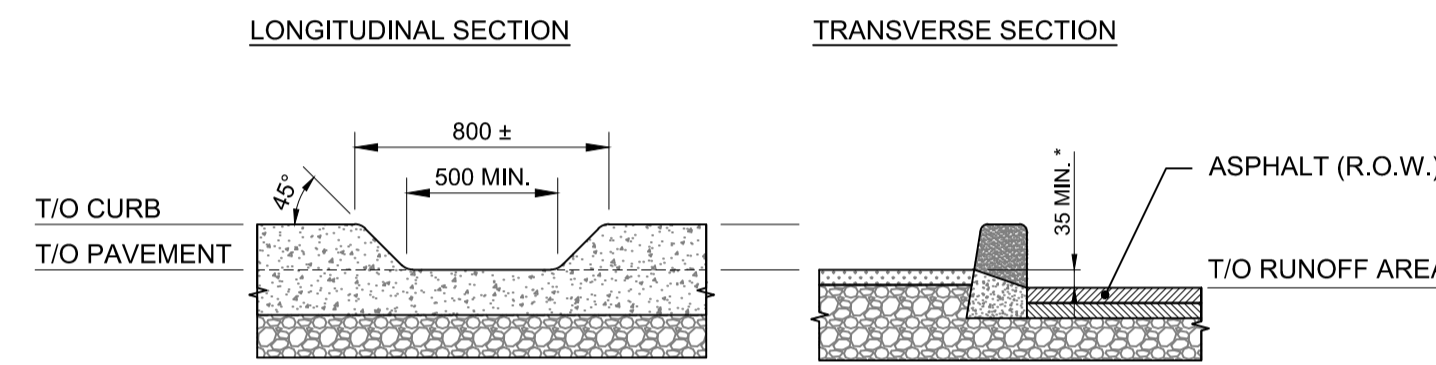
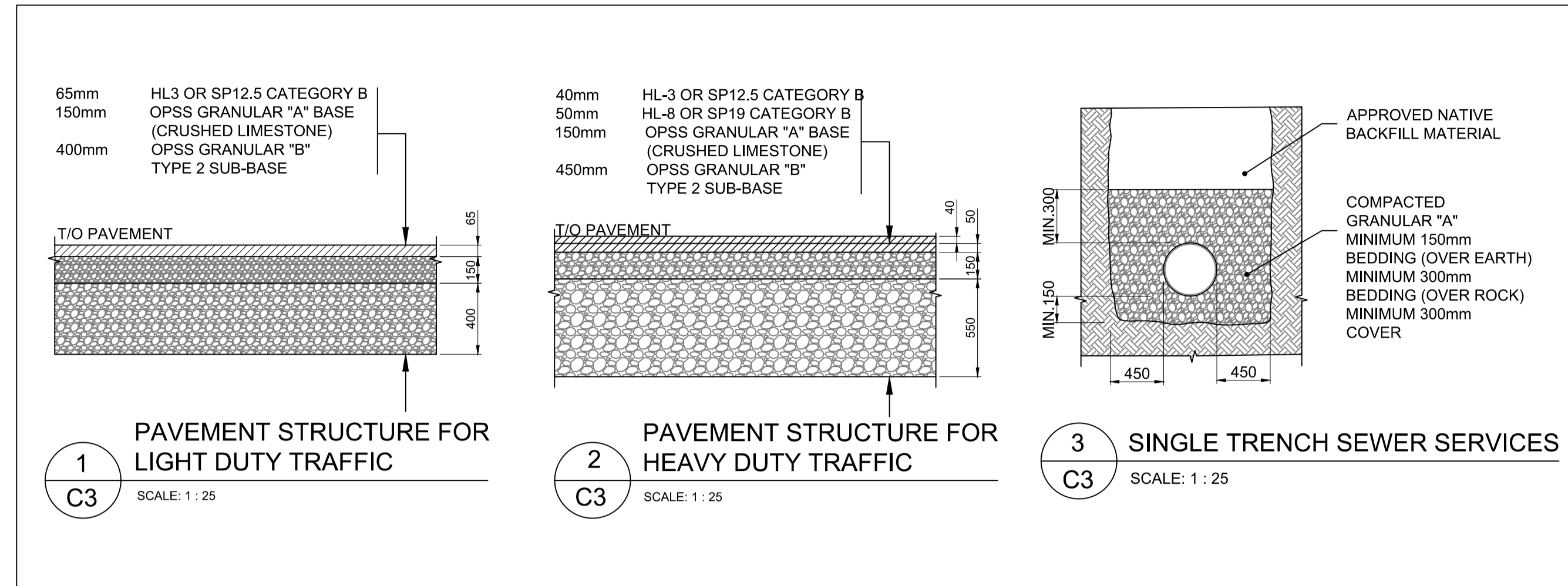
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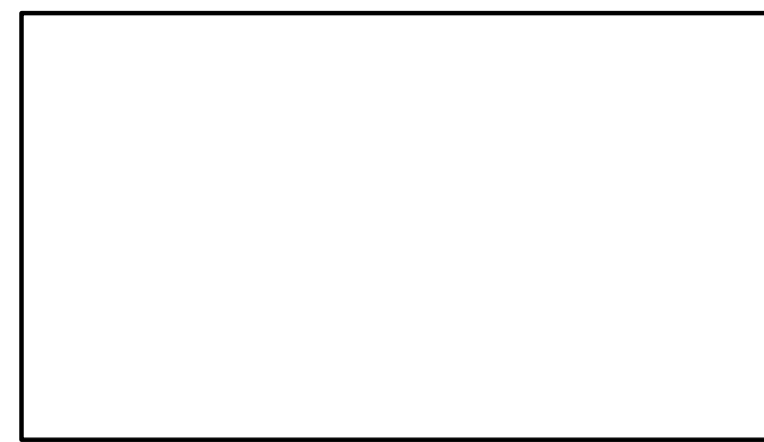
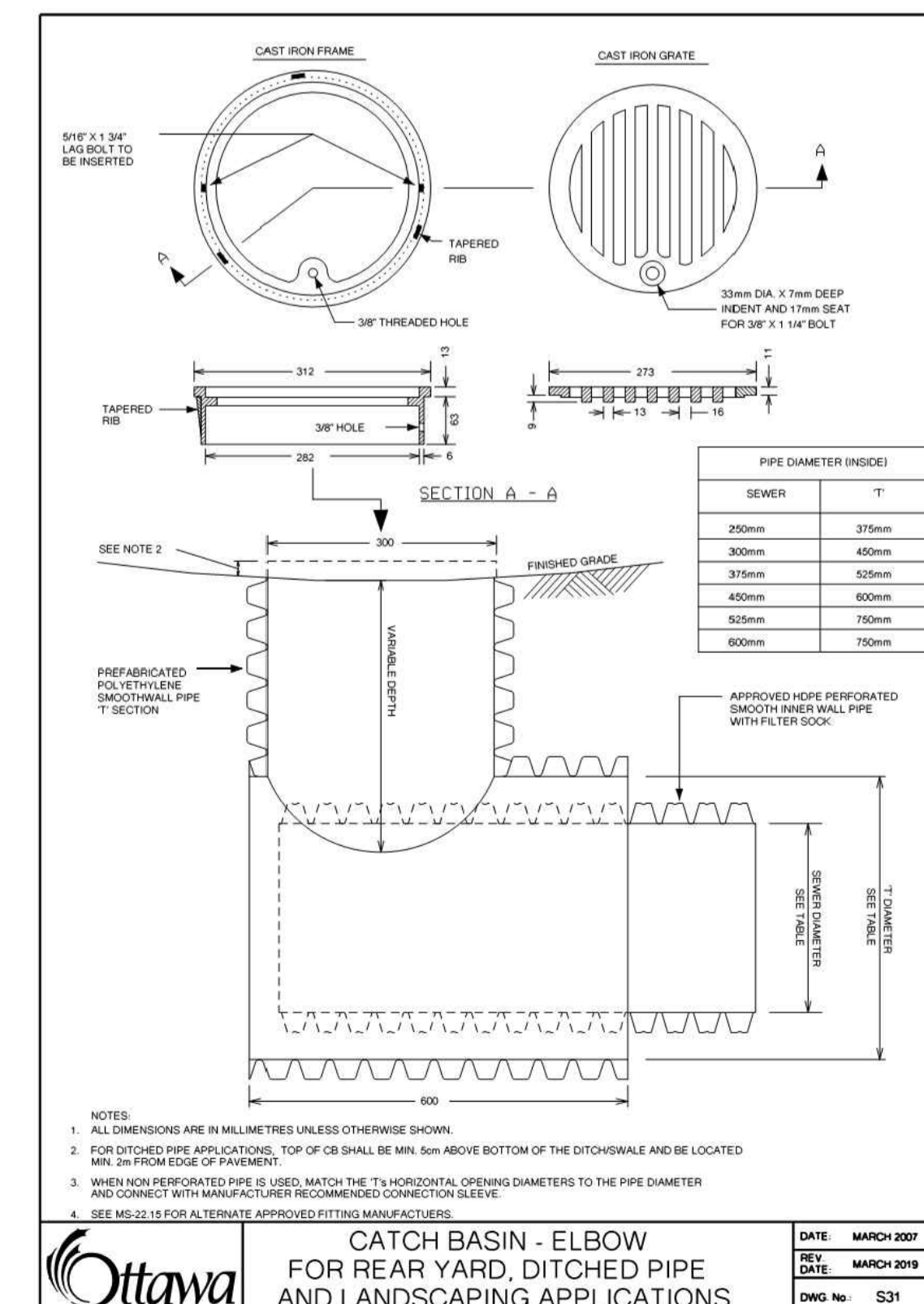
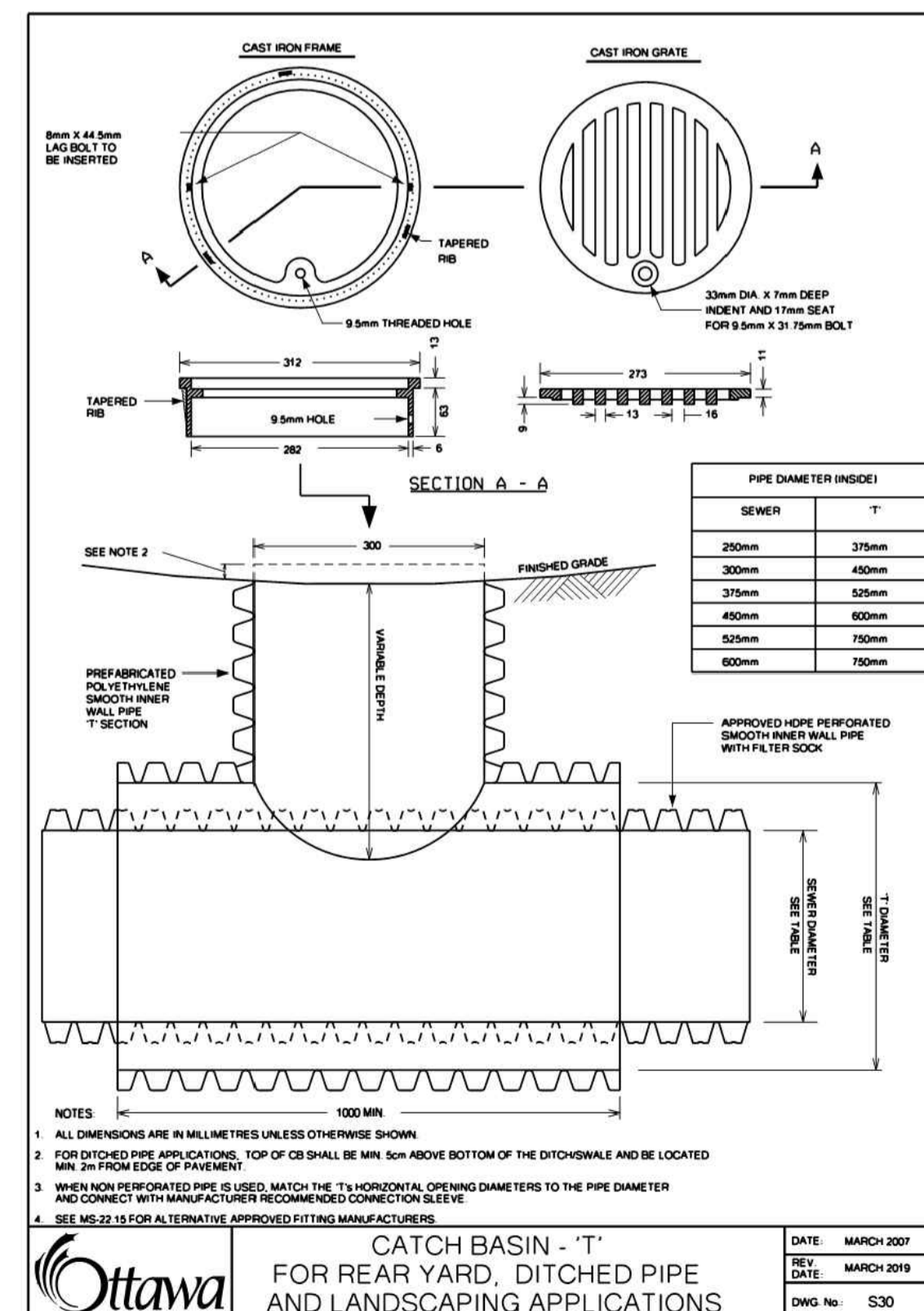
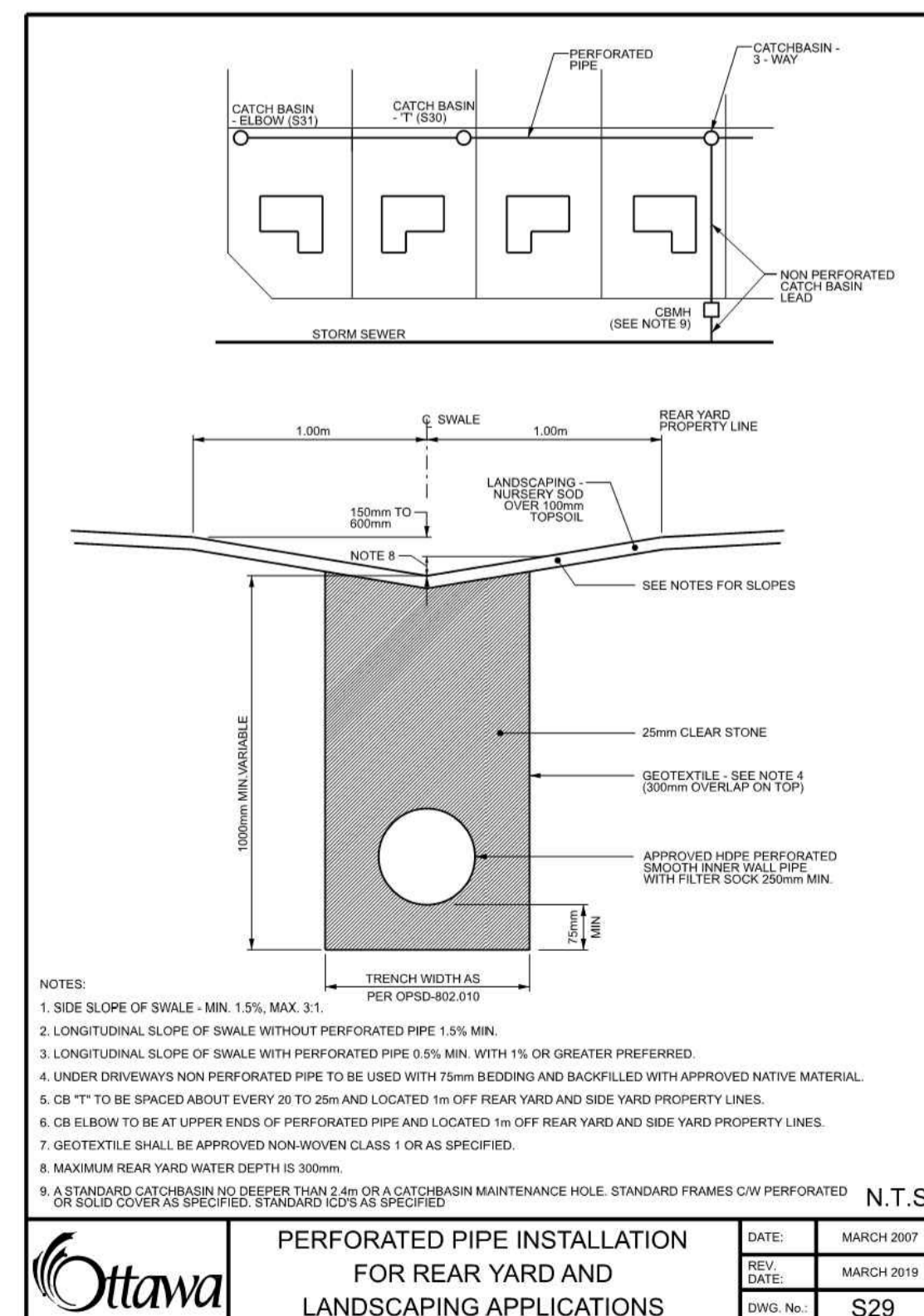
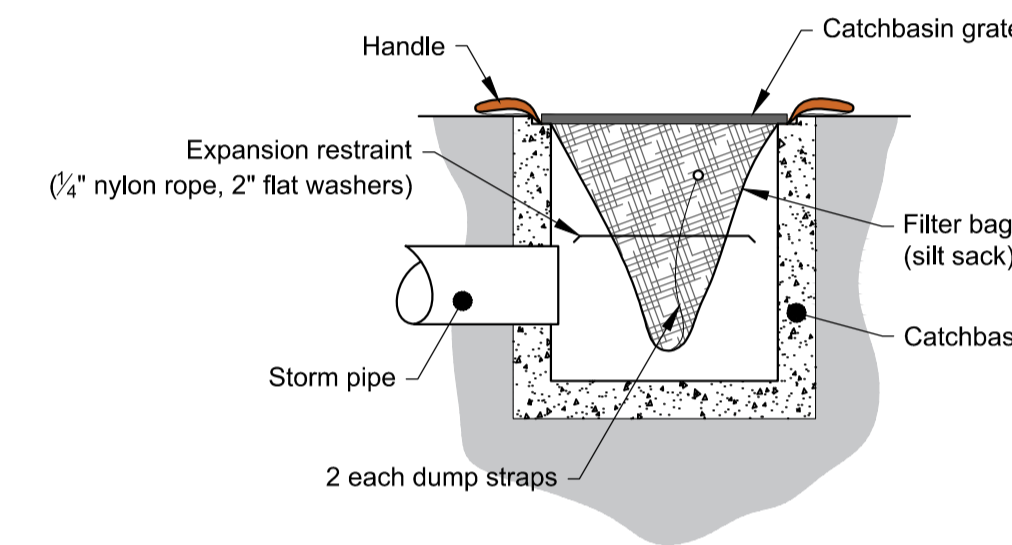
project

seal

drawing title	
SITE GRADING PLAN	
scale	drawn by
1:400	M.S.
date	checked by
NOV 2019	B.K.
project number	drawing number
	C04
CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE WORK COMMENCES. DO NOT SCALE DRAWINGS.	
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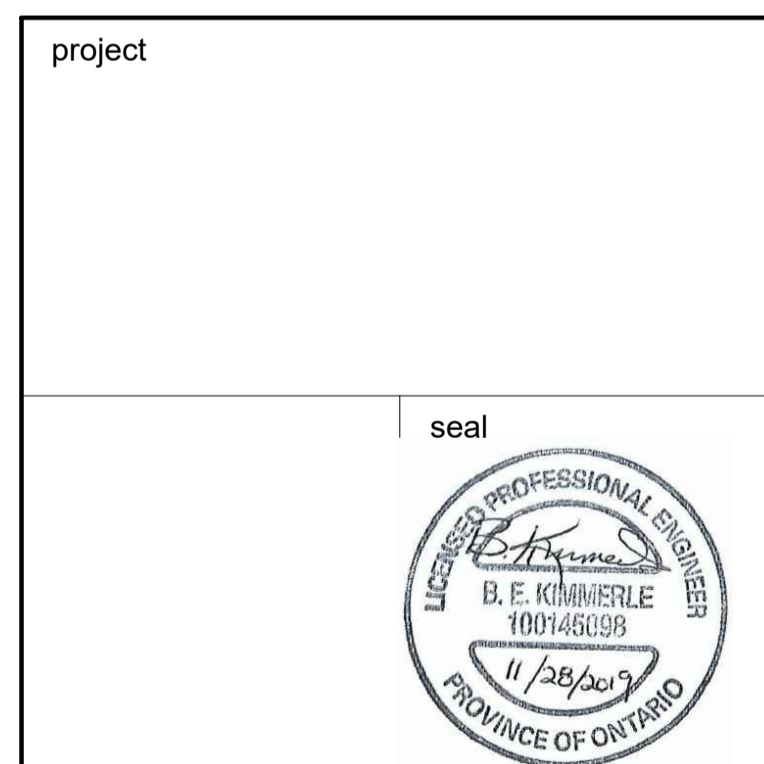


* PROVIDE 35mm MINIMUM DROP IN GRADE BETWEEN CURB CUT ENTRY POINT AND FINISHED GRADE OF STORM WATER FACILITY.



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drawing title	
DETAILS	
scale NOTED	drawn by M.S.
date NOV 2019	checked by B.K.
project number	drawing number C05
CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE WORK COMMENCES. DO NOT SCALE DRAWINGS.	
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