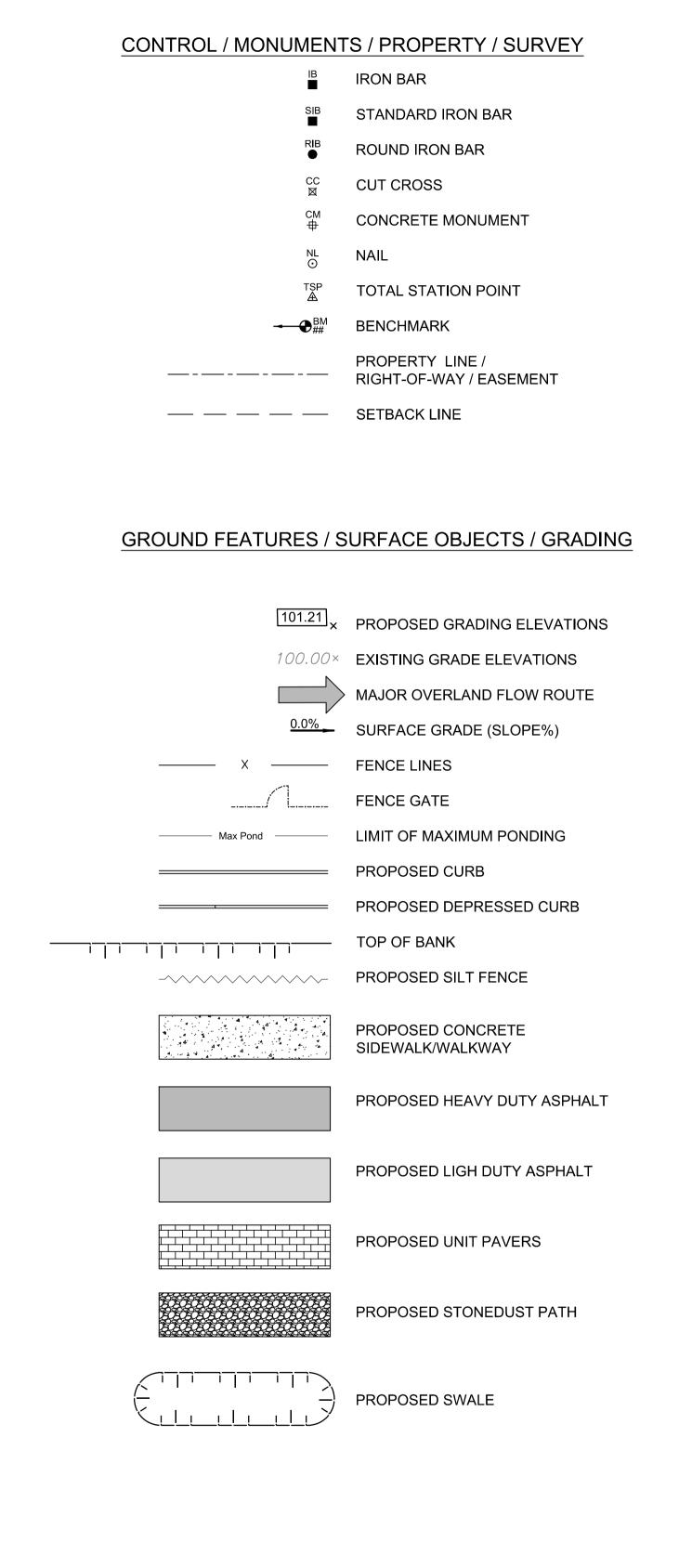
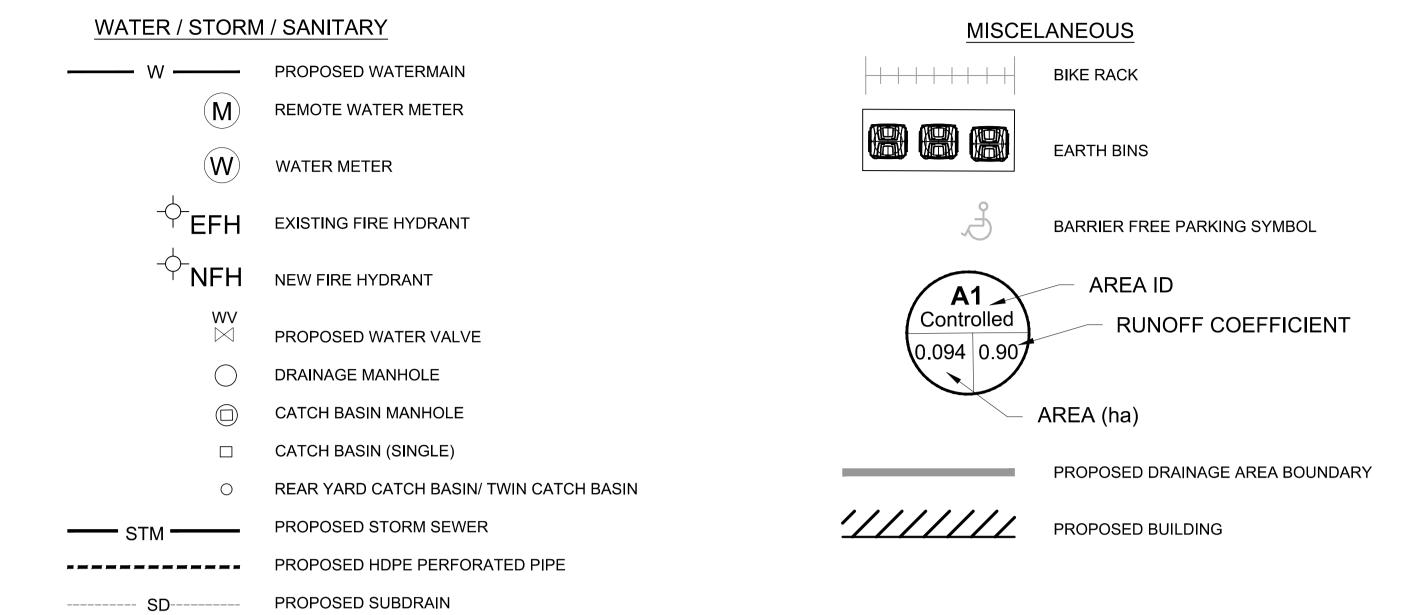
#### LEGEND





SANITARY MANHOLE

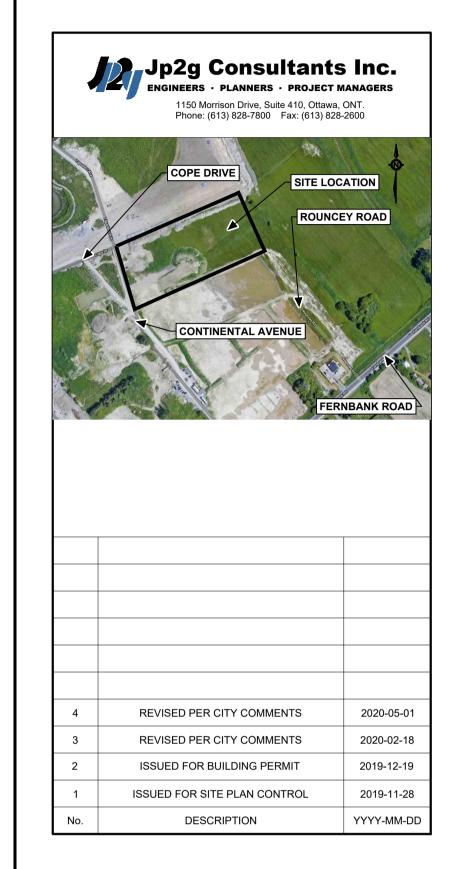
PROPOSED SANITARY SEWER

PROPOSED ROOF DRAIN

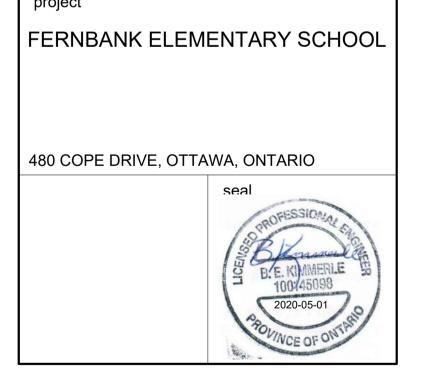
PROPOSED ROOF SCUPPER

PROPOSED CAP (STORM, SANITARY & WATER)









scale N.T.S  date DEC 2019  checked by B.K.  project number  drawing number  C01	drawing title		
n.T.S  date  DEC 2019  checked by  B.K.  project number  drawing number		LEGEND	
project drawing number number			
number		_	
C01	project number	drawing number	
		C0	1

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE WORK COMMENCES.

#### **GENERAL NOTES**

- 1. DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND LANDSCAPE DRAWINGS.
- 2. ALL SERVICES, MATERIALS, CONSTRUCTION METHODS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND REGULATIONS OF THE CITY OF OTTAWA STANDARD SPECIFICATIONS AND DRAWINGS, ONTARIO PROVINCIAL STANDARD SPECIFICATION (OPSS) AND ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD), UNLESS OTHERWISE SPECIFIED, TO THE SATISFACTION OF THE CITY AND THE CONSULTANT.
- 3. THE POSITION OF EXISTING POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND ABOVEGROUND UTILITIES, STRUCTURES AND APPURTENANCES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWING. WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL SATISFY HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM DURING THE COURSE OF CONSTRUCTION. ANY RELOCATION OF EXISTING UTILITIES REQUIRED BY THE DEVELOPMENT OF SUBJECT LANDS IS TO BE UNDERTAKEN AT CONTRACTOR'S EXPENSE.
- 4. THE CONTRACTOR MUST NOTIFY ALL EXISTING UTILITY COMPANY OFFICIALS FIVE (5) BUSINESS DAYS PRIOR TO START OF CONSTRUCTION AND HAVE ALL EXISTING UTILITIES AND SERVICES LOCATED IN THE FIELD OR EXPOSED PRIOR TO THE START OF CONSTRUCTION INCLUDING BUT NOT LIMITED TO POWER, COMMUNICATION AND GAS LINES.
- 5. ALL TRENCHING AND EXCAVATIONS TO BE IN ACCORDANCE WITH THE LATEST REVISIONS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS AND AS PER THE RECOMMENDATIONS INCLUDED IN THE GEOTECHNICAL REPORT.
- 6. REFER TO ARCHITECTS PLANS FOR BUILDING DIMENSIONS & LAYOUT REFER TO LANDSCAPE PLAN FOR LANDSCAPED DETAILS AND OTHER RELEVANT INFORMATION. ALL INFORMATION SHALL BE CONFIRMED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 7. TOPOGRAPHIC SURVEY COMPLETED AND PROVIDED BY FARLEY, SMITH & DENIS SURVEYING DATED SEPTEMBER 23, 2019.
  CONTRACTOR TO VERIFY IN THE FIELD PRIOR TO CONSTRUCTION OF ANY WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- 8. ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS. VERIFY THAT JOB BENCHMARKS HAVE NOT BEEN ALTERED OR DISTURBED.
- 9. ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE OR CATCHBASIN OUTLETS ARE PROVIDED.
- 10. ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT. PAVEMENT REINSTATEMENT SHALL BE WITH STEP JOINTS OF 500mm WIDTH MINIMUM.
- 11. ALL DISTURBED AREAS OUTSIDE PROPOSED GRADING LIMITS TO BE RESTORED TO ORIGINAL ELEVATIONS AND CONDITIONS UNLESS OTHERWISE SPECIFIED. ALL RESTORATION SHALL BE COMPLETED WITH THE GEOTECHNICAL REQUIREMENTS FOR BACKFILL AND COMPACTION.
- 12. ABUTTING PROPERTY GRADES TO BE MATCHED UNLESS OTHERWISE SHOW.
- 13. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE MUNICIPAL AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION, INCLUDING WATER PERMIT AND ROAD CUT PERMIT.
- 14. MINIMIZE DISTURBANCE TO EXISTING VEGETATION DURING THE EXECUTION OF ALL WORKS.
- 15. REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL UNLESS OTHERWISE DIRECTED FROM THE ENGINEER. EXCAVATE AND REMOVE ALL ORGANIC MATERIAL AND DEBRIS LOCATED WITHIN THE PROPOSED BUILDING, PARKING AND ROADWAY LOCATIONS.
- 16. AT PROPOSED UTILITY CONNECTION POINTS AND CROSSINGS (I.E. STORM SEWER, SANITARY SEWER, WATER ETC.) THE CONTRACTOR SHALL DETERMINE THE PRECISE LOCATION AND DEPTH OF EXISTING UTILITIES AND REPORT ANY DISCREPANCIES OR CONFLICTS TO THE ENGINEER BEFORE COMMENCING WORK.
- 17. CONTRACTOR TO OBTAIN POST-CONSTRUCTION TOPOGRAPHIC SURVEY COMPLETED BY OLS OR P.ENG CONFIRMING COMPLIANCE WITH DESIGN GRADING AND SERVICING. SURVEY IS TO INCLUDE LOCATION AND INVERTS FOR BURIED UTILITIES.
- 18. ABIDE BY RECOMMENDATIONS OF GEOTECHNICAL REPORT. REPORT ANY VARIATIONS IN OBSERVED CONATIONS FROM THOSE INCLUDED IN THE REPORT.
- 19. REFERENCE DOCUMENTS
- i. DESIGN BRIEF, PREPARED BY JP2G
- ii. PRELIMINARY GEOTECHNICAL REPORT, PREPARED BY EXP 20. PROVDE CCTV INSPECTION REPORT FOR ALL SEWERS AND
- 20. PROVDE CCTV INSPECTION REPORT FOR ALL SEWERS AND CATCHBASIN LEADS 200mm DIAMETER AND LARGER. REPEAT CCTV INSPECTION FOLLOWING RECTIFICATION OF ANY DEFICIENCIES.

#### **WATERMAIN NOTES**

- 1. ALL WATERMAIN AND WATERMAIN APPURTANANCES, MATERIALS CONSTRUCTION AND TESTING METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA AND MINISTRY OF ENVIRONMENT STANDARDS AND SPECIFICATIONS.
- 2. ALL WATERMAIN 300mm DIAMETER AND SMALLER TO BE POLYVINYL CHLORIDE (PVC) CLASS 150 DR18 MEETING AWWA SPECIFICATION C900
- 3. ALL WATERMAIN TO BE INSTALLED AT MINIMUM COVER OF 2.4m
  BELOW FINISHED GRADE. WHERE WATERMAINS CROSS OVER OTHER
  UTILITIES, A MINIMUM 0.30m CLEARANCE SHALL BE MAINTAINED.
  WHERE WATERMAINS CROSS UNDER OTHER UTILITIES, A MINIMUM
  0.50m CLEARANCE SHALL BE MAINTAINED. WHERE THE MINIMUM
  SEPARATION CANNOT BE ACHIEVED, THE WATERMAIN SHALL BE
  INSTALLED AS PER CITY OF OTTAWA STANDARDS W25 AND W25.2.
  WHERE 2.4m MINIMUM DEPTH CANNOT BE ACHIEVED, THERMAL
  INSULATION SHALL BE PROVIDED AS PER CITY OF OTTAWA DETAIL
  W22. WHERE A WATERMAIN IS IN CLOSE PROXIMITY TO AN OPEN
  STRUCTURE, THERMAL INSULATION SHALL BE PROVIDED AS PER
  CITY OF OTTAWA STANDARD W23.
- 4. CONCRETE THRUST BLOCKS AND MECHANICAL RESTRAINTS ARE TO BE INSTALLED AT ALL TEES, BENDS, HYDRANTS, REDUCERS, ENDS OF MAINS AND CONNECTIONS 100mm AND LARGER, IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS W25.3 AND W25.4.
- 5. CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS SHALL BE PROVIDED AS PER CITY OF OTTAWA STANDARDS W40 AND W42.
- 6. ALL VALVES AND VALVE BOXES AND CHAMBERS, HYDRANTS AND HYDRANT VALVES AND ASSEMBLIES SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARDS.
- 7. FIRE HYDRANT LOCATION AND INSTALLATION AS PER CITY OF OTTAWA STANDARD W18 AND W19. CONTRACTOR TO PROVIDE FLOW TEST AND PAINTING OF NEW HYDRANT IN ACCORDANCE WITH CITY STANDARDS.
- 8. IF WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.

**EROSION AND SEDIMENT CONTROL NOTES** 

PRIOR TO START OF CONSTRUCTION:

CATCHBASINS AS REQUIRED.

CONSTRUCTION.

CLEAN AND REPAIR WHEN NECESSARY.

THE BASE OF ALL STOCKPILES.

2. DURING CONSTRUCTION:

FEATURES.

CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION, MONITORING.

REPAIR AND REMOVAL OF ALL EROSION AND SEDIMENT CONTROL

1.1. INSTALL SILT FENCE IN LOCATION SHOWN ON DRAWINGS.

CATCHBASINS AND MANHOLES TO REMAIN DURING

1.3. INSPECT MEASURES IMMEDIATELY AFTER INSTALLATION.

OF EXPOSURE AND IMPACTS TO EXISTING GRADING.

PERIMETER VEGETATION TO REMAIN IN PLACE UNTIL

EXISTING SITE IS DISTURBED AT THE PERIMETER.

2.3. PROTECT DISTURBED AREAS FROM OVERLAND FLOW BY

PERMANENT STORM WATER MANAGEMENT IS IN PLACE.

OTHERWISE IMMEDIATELY INSTALL SILT FENCE WHEN THE

FIELD ENGINEER. TIE-IN TEMPORARY SWALE TO EXISTING

2.4. PROVIDE TEMPORARY COVER SUCH AS SEEDING OR MULCHING

2.5. INSPECT SILT FENCES, FILTER FABRIC FILTERS AND CATCHBASIN

2.6. DRAWING TO BE REVIEWED AND REVISED AS REQUIRED DURING

2.7. EROSION CONTROL FENCING TO BE ALSO INSTALLED AROUND

2.8. DO NOT LOCATE TOPSOIL PILES AND EXCAVATED MATERIAL

IF DISTURBED AREA WILL NOT BE REHABILITATED WITHIN 30

SUMPS WEEKLY AND WITHIN 24 HOURS AFTER A STORM EVENT.

CLOSER THAN 2.5m FROM ANY PAVED SURFACE OR ONE WHICH

PILES AND OTHER AREAS TEMPORARILY (PROVIDE WATERING AS

IS TO BE PAVED BEFORE THE PILE IS REMOVED. ALL TOPSOIL PILES ARE TO BE SEEDED IF THEY ARE TO REMAIN ON SITE LONG

CONTROL WIND-BLOWN DUST OFF SITE BY SEEDING TOPSOIL

REQUIRED AND TO THE SATISFACTION OF THE ENGINEER).

2.10. NO ALTERNATIVE METHODS OF EROSION PROTECTION SHALL BE

PERMITTED UNLESS APPROVED BY THE FIELD ENGINEER.

SEDIMENT FROM VEHICULAR TRACKING AS REQUIRED.
2.12. DURING WET CONDITIONS, TIRES OF ALL VEHICLES/EQUIPMENT

REMOVED IMMEDIATELY BY HAND OR RUBBER TIRE LOADER.

2.14. TAKE ALL NECESSARY STEPS TO PREVENT BUILDING MATERIAL.

CONSTRUCTION DEBRIS OR WASTE BEING SPILLED OR TRACKED ONTO ABUTTING PROPERTIES OR PUBLIC STREETS DURING CONSTRUCTION AND PROCEED IMMEDIATELY TO CLEAN UP ANY

DRAINAGE SYSTEM AND THE RECEIVING WATERCROUSE DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES

2.11. CITY ROADWAY AND SIDEWALK TO BE CLEANED OF ALL

2.13. ANY MUD/MATERIAL TRACKED ONTO THE ROAD SHALL BE

2.15. ALL EROSION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN STABILIZED EITHER BY PAVING OR RESTORATION OF

2.16. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES TO PROVIDE FOR PROTECTION OF THE AREA

IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.

LEAVING THE SITE ARE TO BE SCRAPED.

AREAS SO AFFECTED.

VEGETATIVE GROUND COVER.

ENOUGH FOR SEEDS TO GROW (LONGER THAN 30 DAYS).

CONSTRUCTION WITHIN THE SITE (SEE TYPICAL DETAIL).

MINIMIZE THE EXTENT OF DISTURBED AREAS AND THE DURATION

PROVIDING TEMPORARY SWALES TO THE SATISFACTION OF THE

1.2. INSTALL FILTER FABRIC OR SILT SACK FILTERS IN ALL

#### SANITARY SEWER AND MANHOLE NOTES

- 1. ALL SANITARY SEWER, SANITARY SEWER APPURTENANCES AND CONSTRUCTION METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
- 2. PROVIDE CCTV INSPECTION FOR ALL NEW SANITARY PIPING. PROVIDE DYE TESTING FOR NEW SERVICES.
- SANITARY SEWER PIPE SIZE 150mm DIAMETER AND GREATER TO BE PVC SDR35 (UNLESS SPECIFIED OTHERWISE) WITH RUBBER GASKET TYPE JOINTS IN CONFORMANCE WITH CSA B-182.2.3.4.
- 4. SEWER BEDDING AS PER CITY OF OTTAWA DETAIL S6.
- 5. ALL SANITARY MANHOLES 1200mm IN DIAMETER TO BE AS PER OPSD 701.01. FRAME AND COVER TO BE AS PER CITY OF OTTAWA STANDARD \$25 AND \$24.
- 6. MAINTENANCE HOLE BENCHING AND PIPE OPENING ALTERNATIVES AS PER OPSD 701.021.
- ANY SANITARY SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR APPROVED BY THE ENGINEER.

PARKING LOT AND WORK IN PUBLIC RIGHTS OF WAY NOTES

CONTRACTOR TO REINSTATE ROAD CUTS AS PER CITY OF OTTAWA

CONTRACTOR TO PREPARE SUBGRADE, INCLUDING PROOFROLLING

TO THE SATISFACTION OF THE GEOTECHNICAL CONSULTANT PRIOR

TO THE COMMENCEMENT OF PLACEMENT OF GRANULAR B MATERIAL

FILL TO BE PLACED AND COMPACTED PER THE GEOTECHNICAL

CONTRACTOR TO SUPPLY, PLACE AND COMPACT GRANULAR B

GRADATION REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL

GRANULAR A MATERIAL TO BE PLACED ONLY UPON APPROVAL BY

THE GEOTECHNICAL CONSULTANT OF GRANULAR B PLACEMENT.

CONTRACTOR TO SUPPLY, PLACE AND COMPACT GRANULAR A

GEOTECHNICAL CONSULTANT, CONTRACTOR TO PROVIDE

TESTING AND CERTIFICATION FROM THE GEOTECHNICAL

CONSULTANT THAT THE MATERIAL MEETS THE GRADATION

REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT

GEOTECHNICAL CONSULTANT OF GRANULAR A PLACEMENT.

IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE

CERTIFICATION TO SHOW THAT THE MATERIAL MEETS THE

REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT

IN ACCORDANCE WITH THE PLANS AND FOR PROVIDING THE

CONSULTANT WITH VERIFICATION PRIOR TO PLACEMENT.

DISPOSAL METHOD/LOCATION.

PLANS.

CONSULTANT WITH SAMPLES OF GRANULAR A MATERIAL FOR

MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE

ASPHALT MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE

CONTRACTOR TO SUPPLY, PLACE AND COMPACT ASPHALT MATERIAL

GEOTECHNICAL REPORT. CONTRACTOR TO PROVIDE TESTING AND

CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING LINE AND GRADE

0. ALL EXCESS MATERIAL TO BE HAULED OFFSITE AND DISPOSED OF AT

AN APPROVED DUMP SITE. SHOULD THE CONTRACTOR DISCOVER

ANY HAZARDOUS MATERIAL. THE CONTRACTOR IS TO NOTIFY THE

CONSULTANT. CONSULTANT IS TO DETERMINE APPROPRIATE

PAVEMENT STRUCTURE (MATERIAL TYPES AND THICKNESS) FOR

SPECIFIED IN THE GEOTECHNICAL REPORT AND SHOWN ON THE

HEAVY DUTY. LIGHT DUTY AND BASKETBALL COURT AREAS TO BE AS

MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE

GEOTECHNICAL REPORT. CONTRACTOR TO PROVIDE TESTING AND

CERTIFICATION TO SHOW THAT THE MATERIAL COMPLIES WITH THE

8. IF WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.

DETAIL R10.

REPORT.

REPORT REQUIREMENTS.

#### STORM SEWER AND STRUCTURE NOTES

- 1. ALL STORM SEWER MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
- 2. STORM SEWERS 450mm DIAMETER AND SMALLER SHALL BE PVC
- SDR35 WITH RUBBER GASKET PER CSA A-257.3..

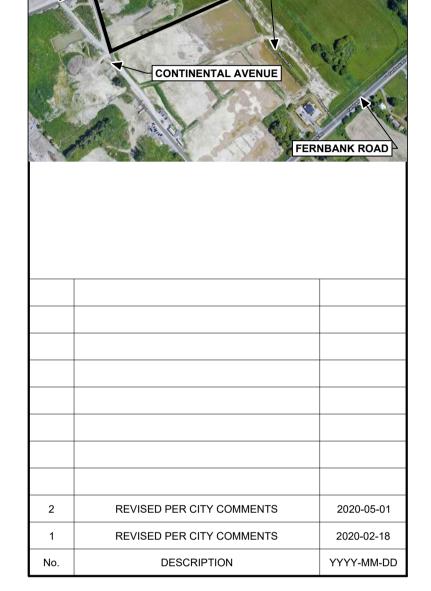
  STORM SEWER LARGER THAN 450mm SHALL BE REINFORCED
- 4. SEWER BEDDING AS PER CITY OF OTTAWA DETAIL S6.

CONCRETE CLASS 65-D.

- 5. ALL STORM MANHOLES TO BE AS PER STORM STRUCTURE TABLE ON DRAWING C03.
- 6. ANY NEW OR EXISTING STORM SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR APPROVED BY THE ENGINEER.
- CATCHBASINS IN LANDSCAPED AREAS SHALL BE AS PER CITY OF OTTAWA STANDARD S30 AND S31.
- ALL CATCHBASIN LEADS TO BE MINIMUM 200mm DIAMETER AT MINIMUM 1.0% SLOPE UNLESS OTHERWISE SPECIFIED.
- 9. STORM CATCHBASINS AS PER OPSD 705.010 AND FRAME/COVER AS PER CITY STANDARD DRAWING S19. STORM CATCHBASIN MANHOLES (CBMH) AS INDICATED IN TABLE WITH SUMP. ADJUSTMENT SECTIONS SHALL BE AS PER OPSD 704.010.
- 10. INSTALLATION OF FLOW CONTROL ICD'S TO BE VERIFIED BY QUALITY VERIFICATION ENGINEER RETAINED BY THE CONTRACTOR.

# OTTAWA-CARLETON DISTRICT SCHOOL BOARD





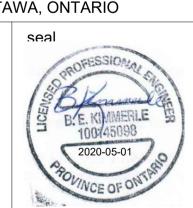


## N45 ARCHITECTURE INC.

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

oject
ERNBANK ELEMENTARY SCHOOL

480 COPE DRIVE, OTTAWA, ONTARIO



drawing title	
	LEGEND
scale <sub>N.T.S</sub>	drawn by M.S.
date DEC 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.

Folder: C:\Barbra\01-Current Barbra\19-5070A - N45 New OCDSB Fernbank Elementary School\08 Drawings\04 ONGOING | Drawing: Fernbank Civil 01-05-2020 - CURRENT.dwg | Layout: NOTES | Print date: 9:56 AM May 4, 2020

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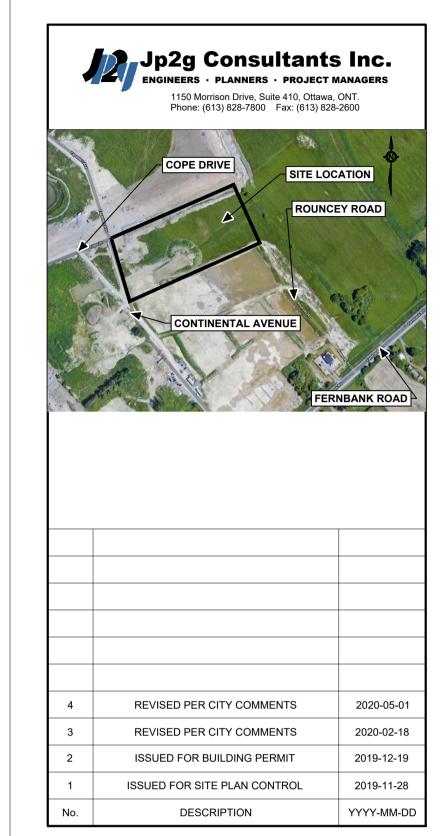
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ID	DESCRIPTION	FINISHED GRADE (m)	T/O WATERMAIN (m)	CHAINAGE (m)	OFFSET (m)
1	CONNECTION TO EXISTING STUB	101.120	98.72	0+000	0.00
2	45° BEND	100.700	98.30	0+013.78	0.00
3	45° BEND	100.720	98.32	0+016.58	0.00
4	45° BEND	100.630	97.81	0+041.81	0.00
5	200 X 150 TEE	100.71	98.00	0+059.10	0.00
<b>6</b>	150mm VALVE	100.83	98.00	1+005.00	0.00
7	45° BEND	100.95	95.55	1+008.82	0.00
8	150 X 150 TEE	100.95	97.14	1+044.12	0.00
9	150mm VALVE	100.95	97.14	1+044.12	1.00
10>	PROPOSED FIRE HYDRANT	100.88	97.14	1+044.12	9.50
11>	CAP	101.00	97.14	1+053.15	0.00
12>	45° BEND	100.72	98.32	0+062.26	0.00
13>	200 X 150 TEE	100.83	98.43	0+087.49	0.00
14>	150mm VALVE	100.83	98.43	2+000.91	0.00
15>	45° BEND	100.79	98.39	2+019.17	0.00
16>	PROPOSED FIRE HYDRANT	100.68	98.28	2+032.00	0.00
17	CONNECTION AT BUILDING FOUNDATION	101.100	98.70	0+095.18	0.00

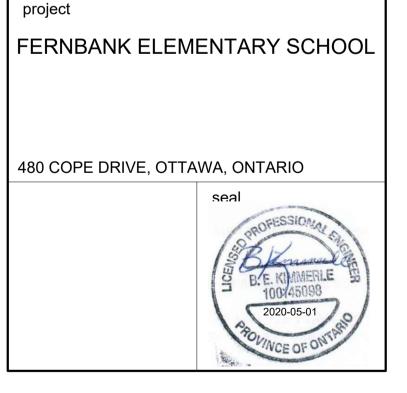
CROSSING	TABLE				
LOCATION	OVER / UNDER	FINISHED GRADE (m)	INVERT	OBVERT	CLEARANCE (m)
À	PROP. WATERMAIN / PROP. SANITARY	100.72	98.12 (WATERMAIN)	97.53 (SANITARY)	0.59
<u>/2</u>	PROP. STORM SEWER / PROP. SANITARY SEWER	100.56	98.42 (STORM)	97.68 (SANITARY)	0.64
<u>/3</u>	PROP. STORM SEWER / PROP. WATERMAIN	100.62	98.41 (STORM)	97.81 (WATERMAIN)	0.50
<u> </u>	PROP. STORM SEWER / PROP. WATERMAIN	100.94	98.59 (STORM)	98.00 (WATERMAIN)	0.50
<u>/</u> 5	PROP. STORM SEWER / PROP. WATERMAIN	100.73	99.27 (STORM)	98.33 (WATERMAIN)	0.84
<u>6</u>	PROP. STORM SEWER / PROP. WATERMAIN	100.86	98.74 (STORM)	98.14 (WATERMAIN)	0.50

MANHOLE A	ND CATCHBASIN SCHEDU	LE		
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
CBMH1	100.700	99.62 W / 99.54 S	1200 / 701.010	S25 / S28.1
СВМН2	100.750	99.44 NW / 99.46 W / 99.38 SE	1200 / 701.010	S25 / S28.1
СВМНЗ	100.650	99.14 NE / 99.22 NW / 99.53 S	1200 / 701.010	S25 / S28.1
СВМН4	100.600	98.98 NW / 99.20 N / 98.83 NE	1200 / 701.010	S25 / S28.1
СВМН5	100.60	98.70 W / 98.64 SE	1500 / 701.011	S25 / S28.1
СВМН6	100.56	98.66 SE / 98.51 NW / 98.39 E	1500 / 701.011	S25 / S28.1
СВМН7	100.61	98.90W / 98.90 N	1200 / 701.010	S25 / S28.1
СВМН8	100.60	98.88 NW / 98.73 E	1200 / 701.010	S25 / S28.1
СВМН9	100.47	98.67 W / 98.61 S	1200 / 701.010	S25 / S28.1
CBMH10	100.50	98.51 N / 98.27 SW / 98.04 SE	1500 / 701.011	S25 / S28.1
STMH1	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
тсв3	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	100.82	99.23 W / 99.23 E	S30	S30
TCB13	100.66	98.98 W / 98.98 E	S30	S30
TCB14	100.75	99.25 S	S31	S31
TCB15	100.75	99.17 N / 98.17 S	S30	S30
TCB16	100.73	99.10 W / 99.10 E	S30	S30
RYCB1	100.680	99.68 N	S31	S31
RYCB2	100.84	99.33 E / 99.33 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

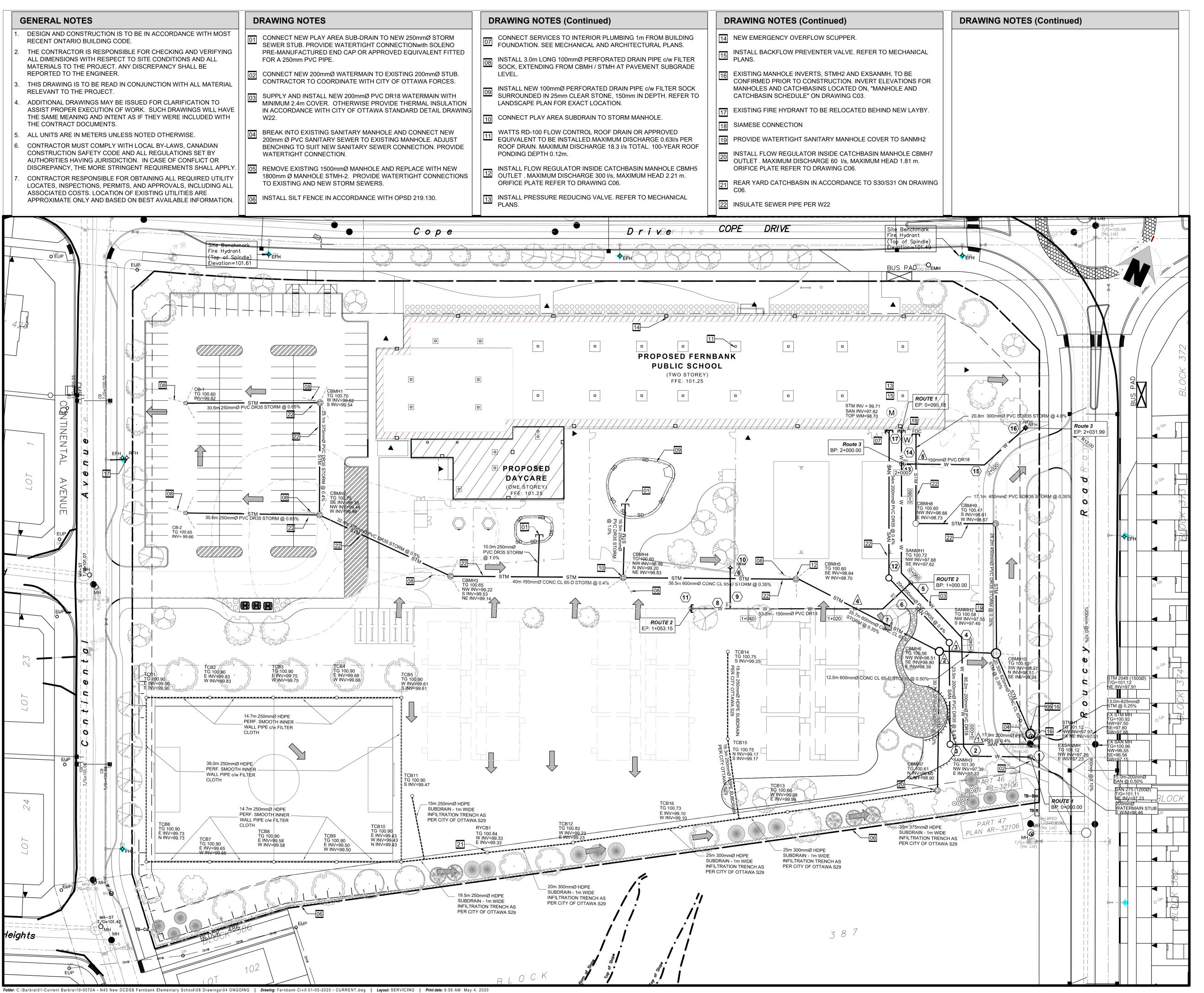






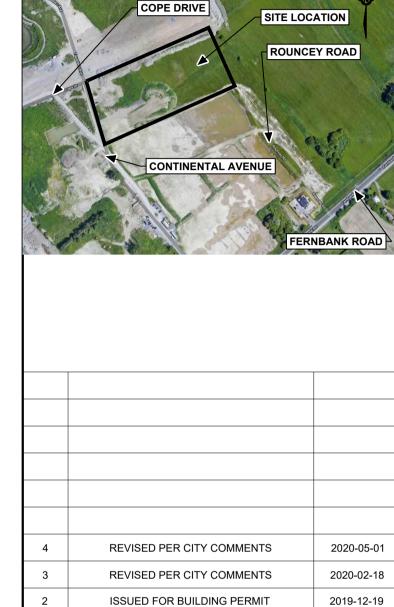


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2019-11-28

YYYY-MM-DD

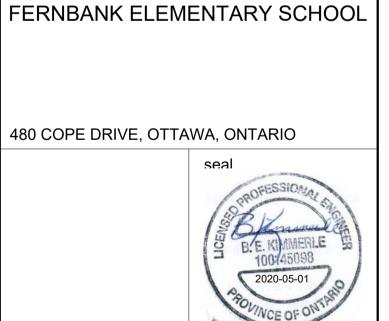
## N45 ARCHITECTURE INC.

project

ISSUED FOR SITE PLAN CONTROL

DESCRIPTION

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



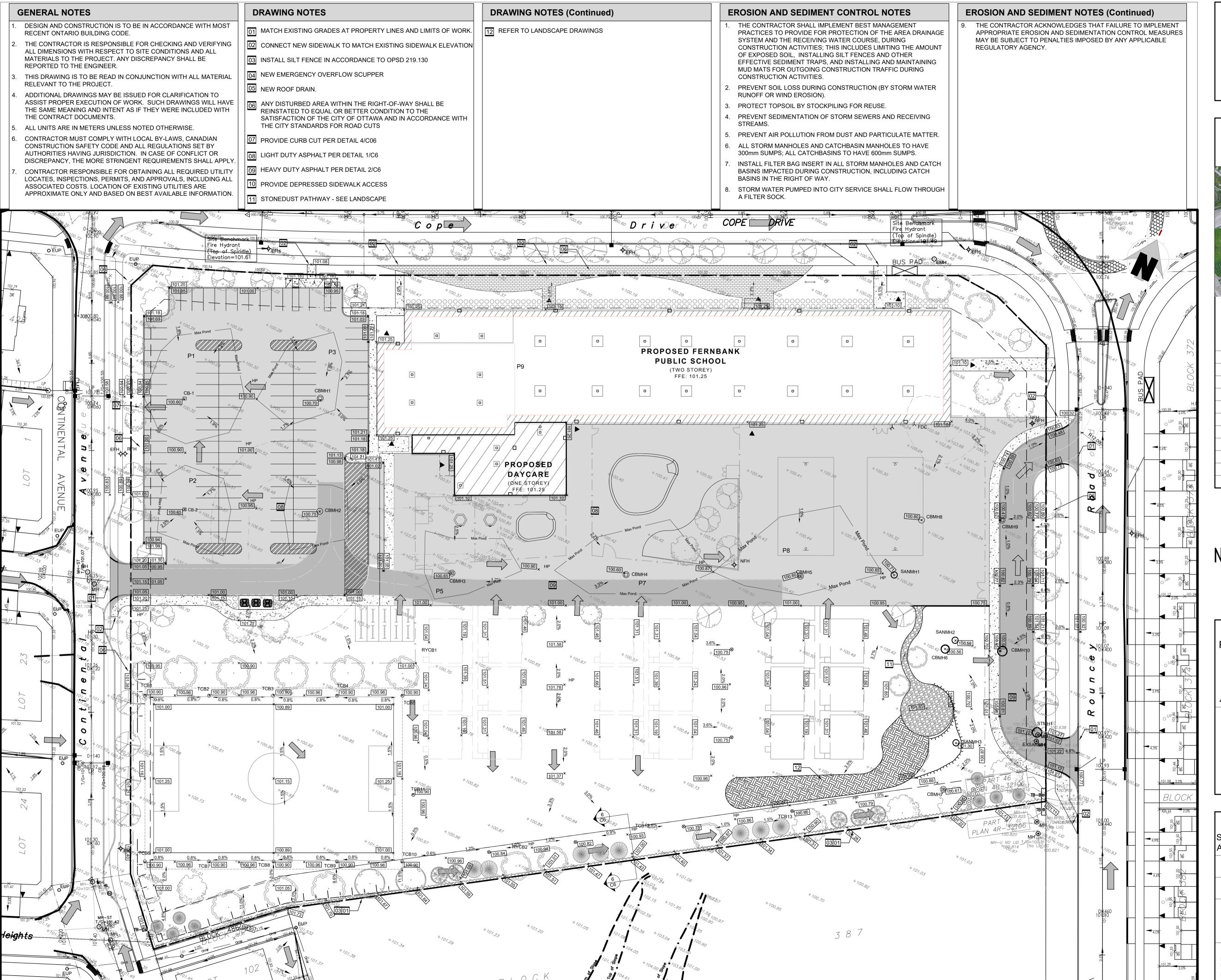
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SITE	SERVICING PLA	AN
scale 1:400	drawn by <sub>M.S.</sub>	
date DEC 2019	checked by B.K.	
oroject number	drawing number	
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CONTRACTOR TO VER	IFY ALL DIMENSIONS AND	revision

NOTIFY THE ARCHITECT OF ANY

DO NOT SCALE DRAWINGS.

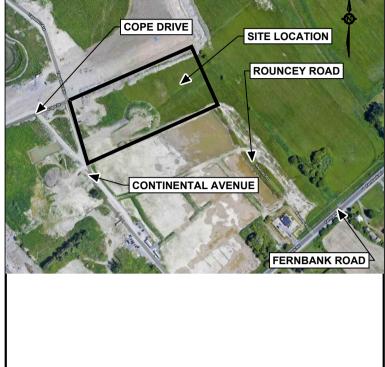
DISCREPANCIES BEFORE WORK COMMENCES.

#18083









4	REVISED PER CITY COMMENTS	2020-05-01
3	REVISED PER CITY COMMENTS	2020-02-18
2	ISSUED FOR BUILDING PERMIT	2019-12-19
1	ISSUED FOR SITE PLAN CONTROL	2019-11-28
No.	DESCRIPTION	YYYY-MM-DD



project

tel. 613.224.0095

FERNBANK ELEMENTARY SCHOOL

480 COPE DRIVE, OTTAWA, ONTARIO



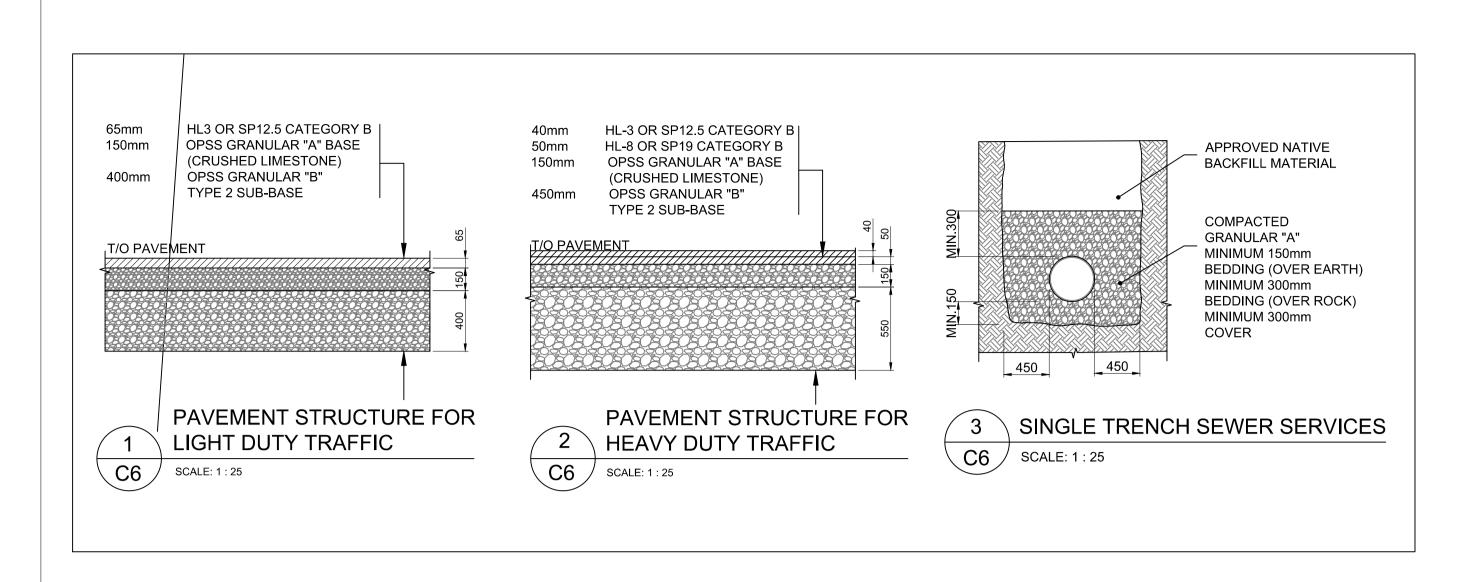
fax 613.224.9811

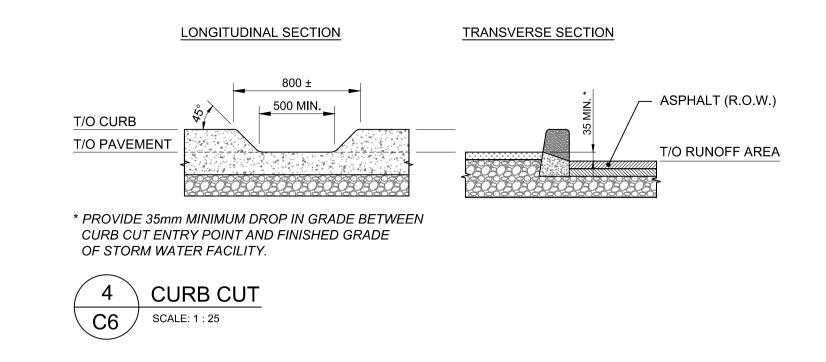
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	S AND DRAINAGE, EROSION IT CONTROL PLAN
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ate DEC 2019	checked by B.K.
oject umber	drawing number
	C05

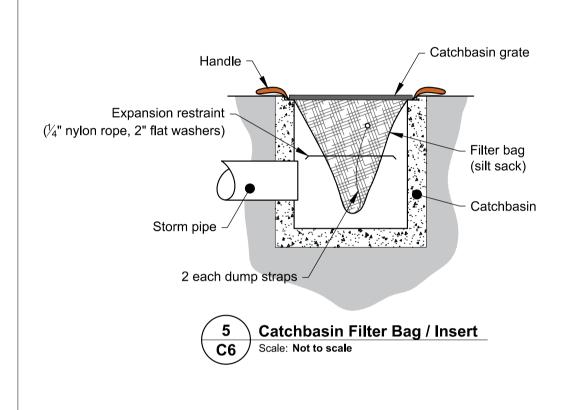
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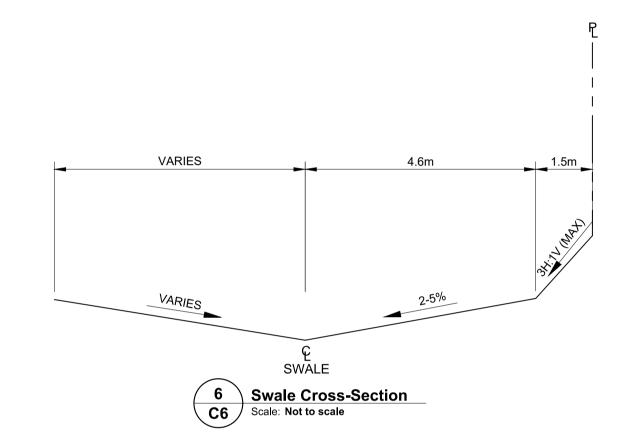
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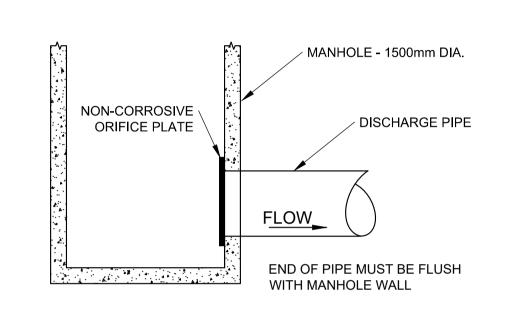
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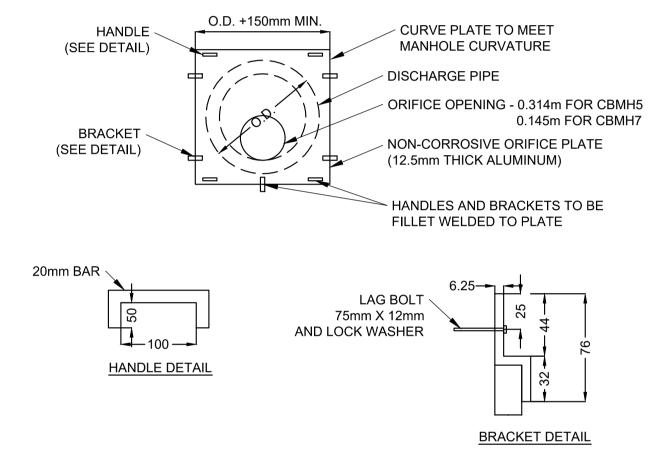




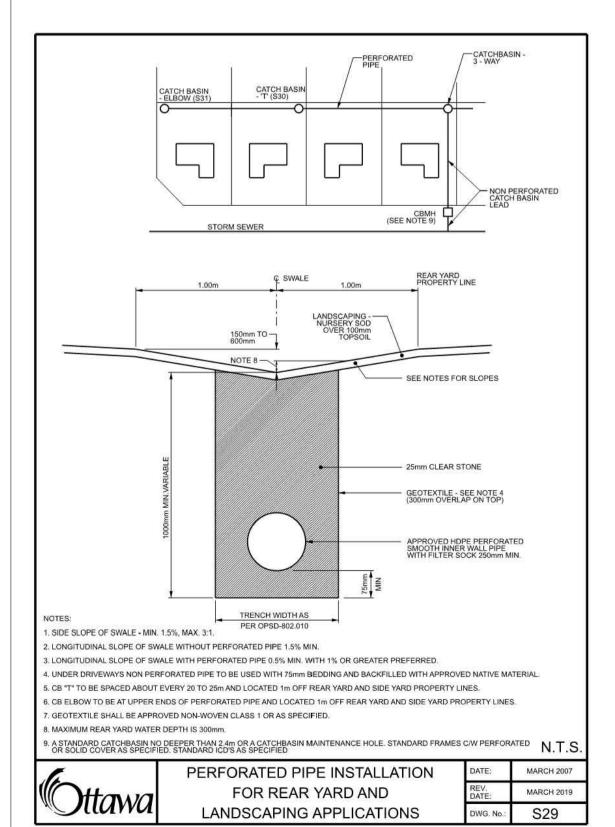


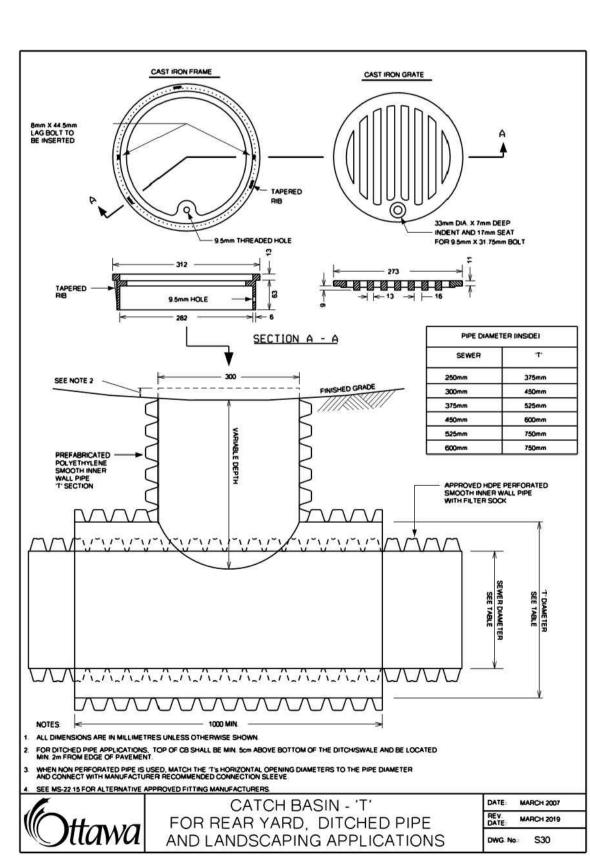


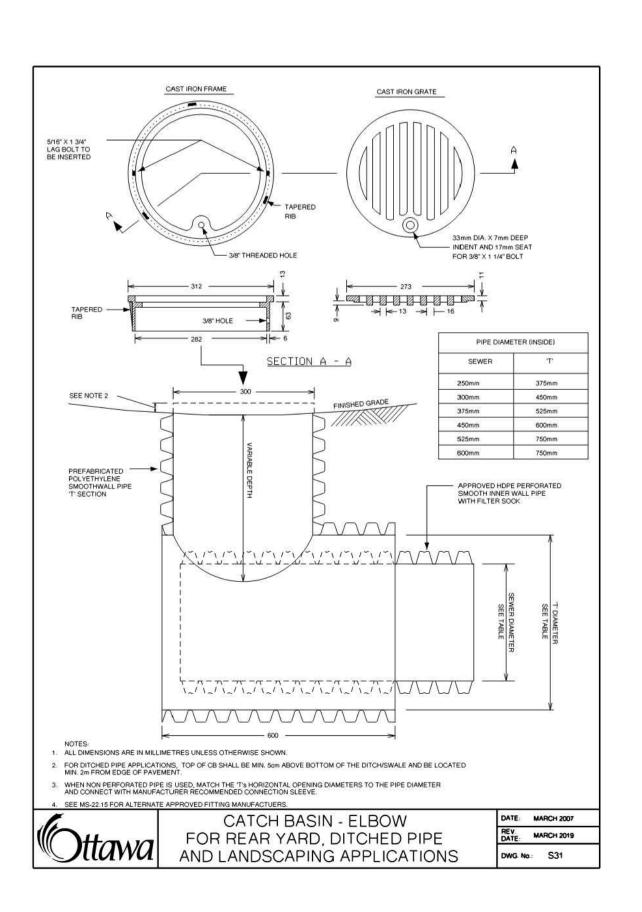




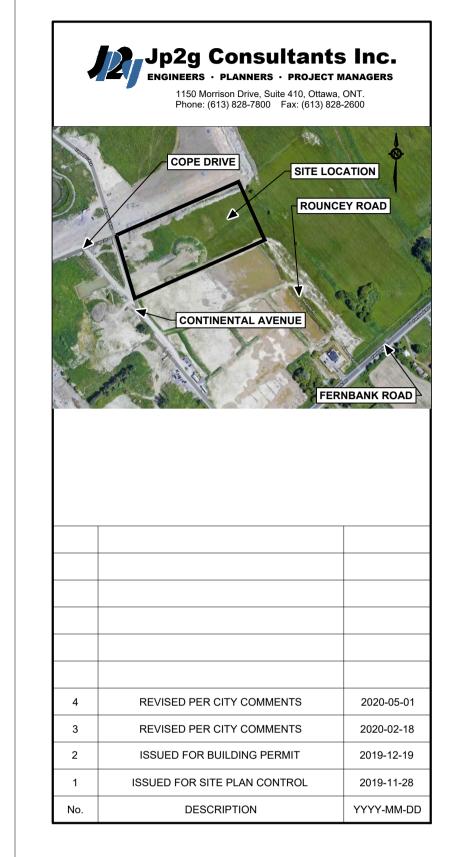






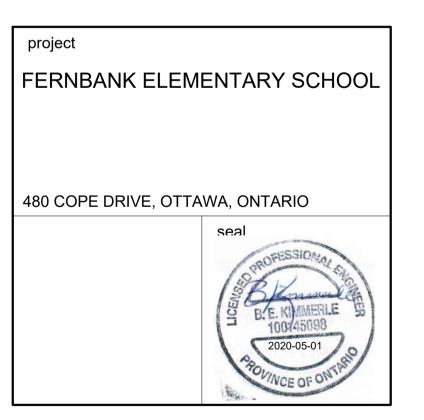






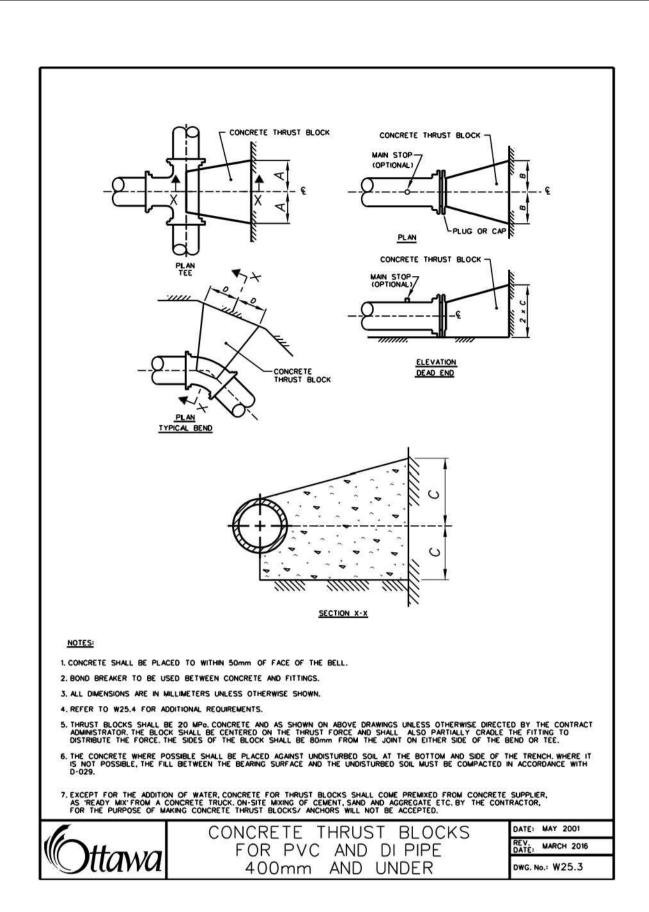


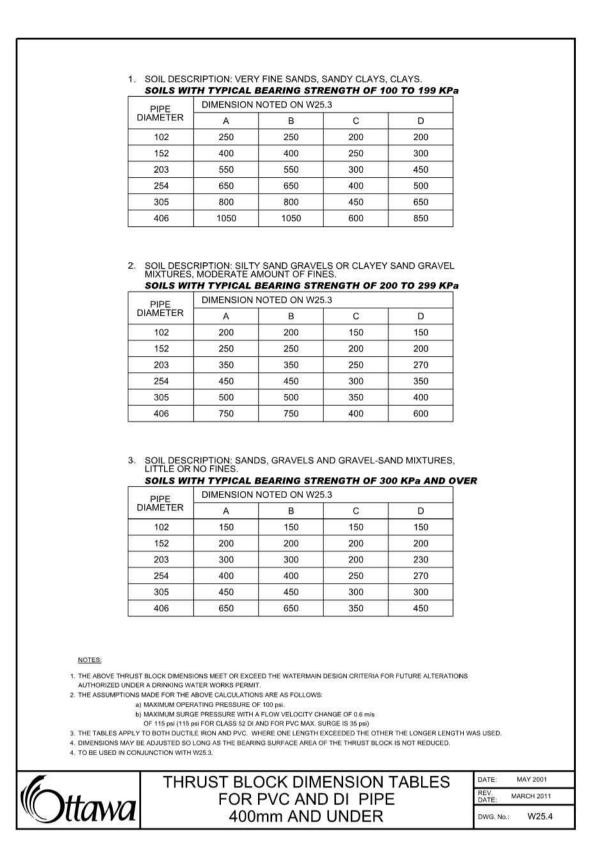
fax 613.224.9811

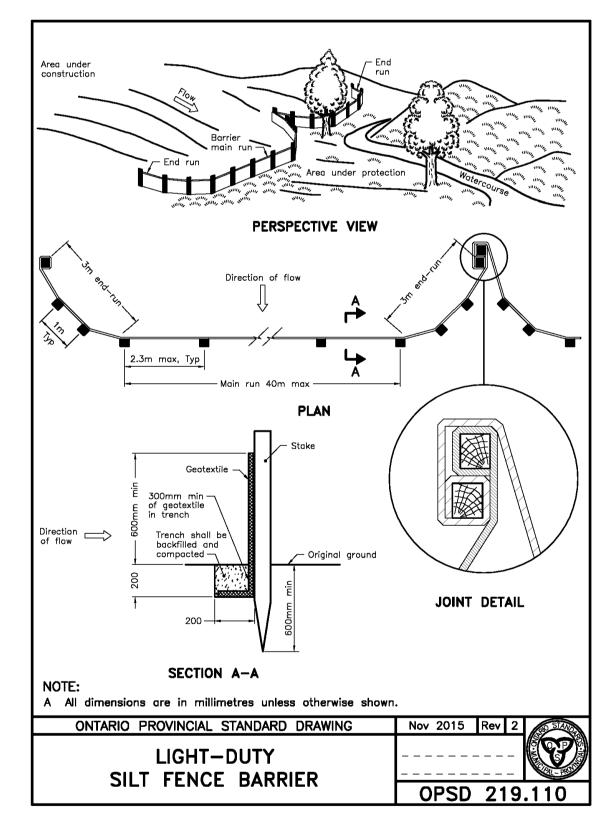


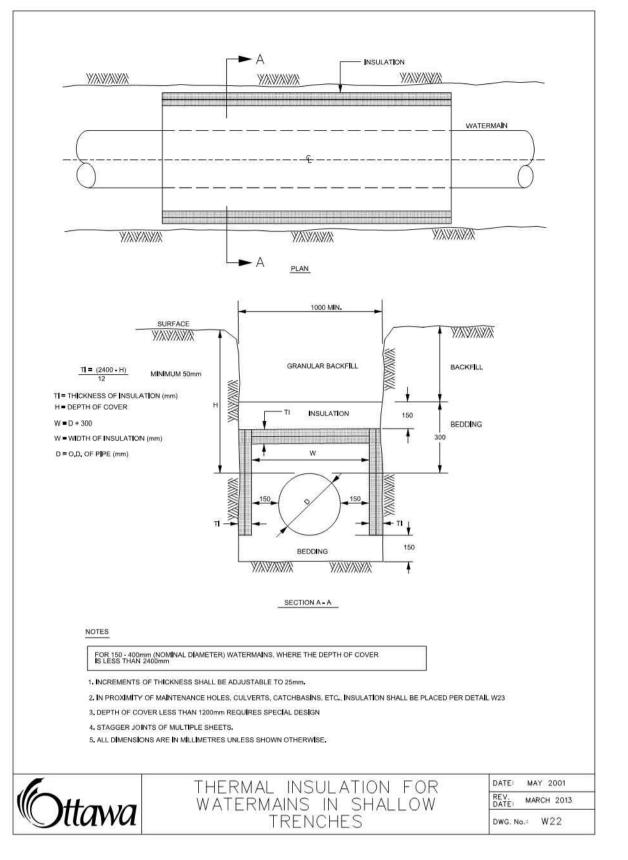
tel. 613.224.0095

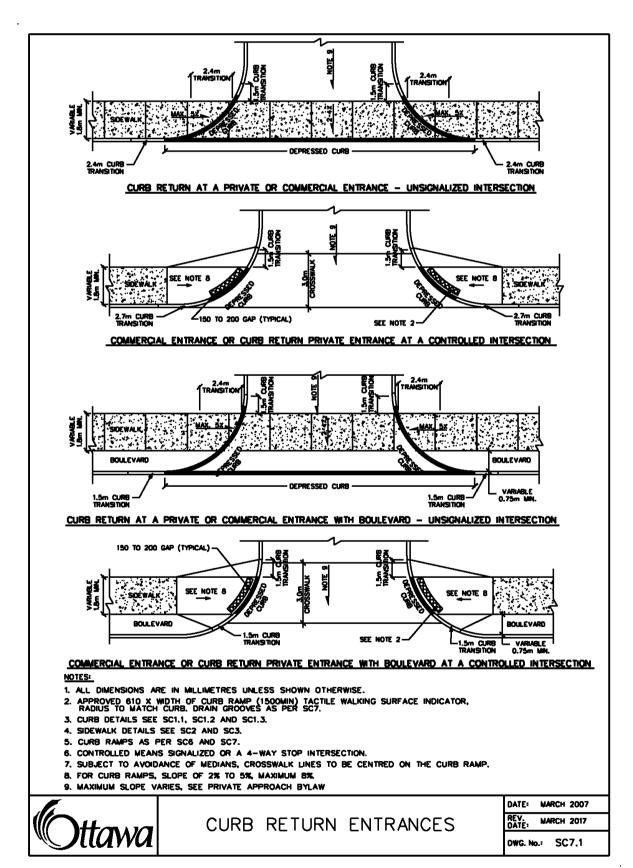
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	DETAILS		
scale NOTED	drawn by <sub>M.S.</sub>		
date DEC 2019	checked by B.K.		
project number	drawing number		
	C0	6	00
NOTIFY THE ARCHITEC	IFY ALL DIMENSIONS AND CT OF ANY PRE WORK COMMENCES.	revision	12-19-0200

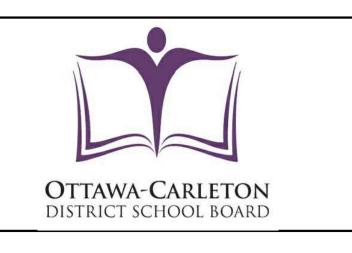


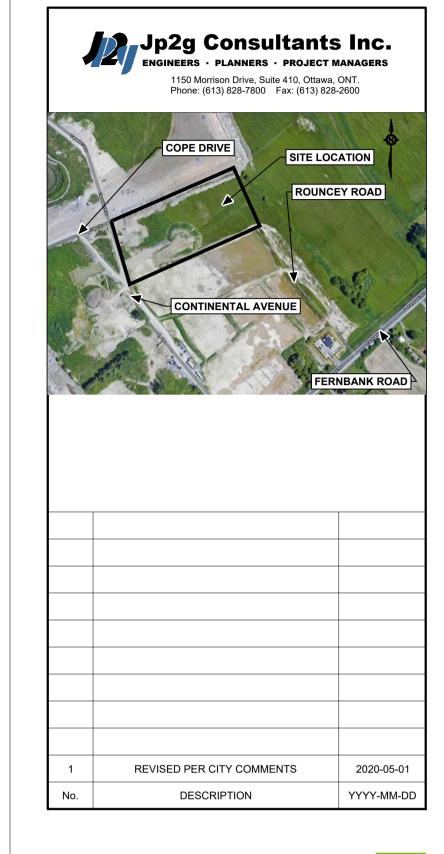




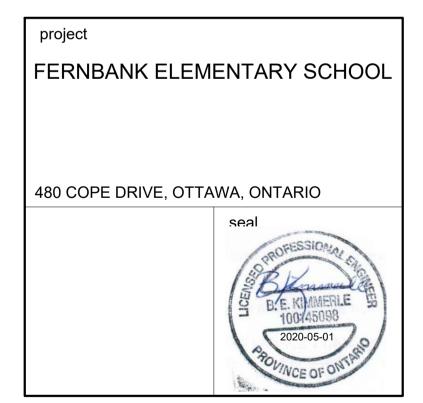












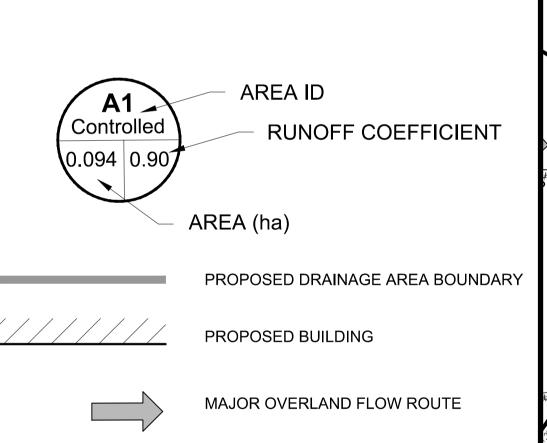
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	DETAILS
scale NOTED	drawn by M.S.
date DEC 2019	checked by B.K.
project number	drawing number
	C07

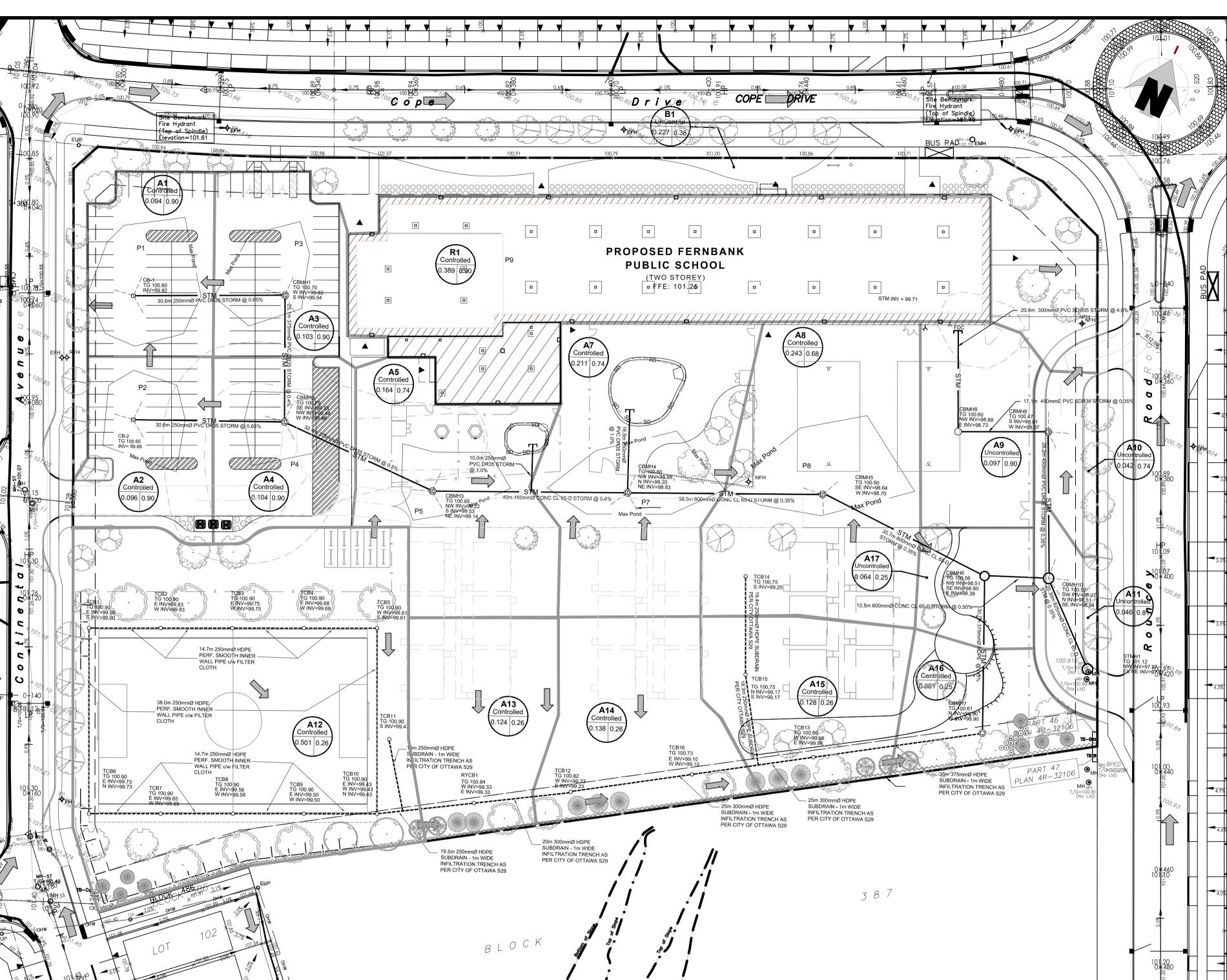
CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE WORK COMMENCES.

DO NOT SCALE DRAWINGS.

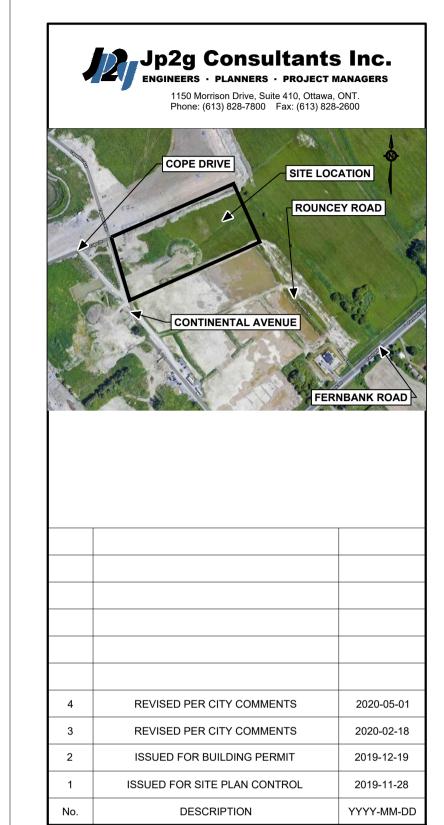
POND NO.	LOCATION	POND ELEV. (m)	TOP OF CB ELEV. (m)	POND DEPTH (m)	POND VOL. (m³)
P1	CB1	100.85	100.60	0.25	37.93
P2	CB2	100.85	100.67	0.18	15.42
P3	СВМН1	100.85	100.70	0.15	13.81
P4	СВМН2	100.85	100.72	0.13	24.81
P5	СВМН3	100.85	100.65	0.20	15.98
P7	СВМН4	100.85	100.62	0.18	30.60
P8	СВМН5	100.85	100.60	0.25	41.66
P9	ROOF			0.12	153.01
				Total=	333.22

MAXIMUM PONDING DEPTH AND DIVIDING BY 3 FOR A CONICAL POND









# N45 ARCHITECTURE INC. 43 Eccles Street, 2nd Floor - Ottawa, Ontario, K1R 6S3

tel. 613.224.0095

FERNBANK ELEMENTARY SCHOOL



fax 613.224.9811

drawing title				
STORM DRAINAGE PLAN				
scale 1:500	drawn by M.S.			
date DEC 2019	checked by B.K.			
project number	drawing number			
	SD1			
	revision			

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE WORK COMMENCES.