

EROSION AND SEDIMENT CONTROL MEASURES:

** CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION, MONITORING, REPAIR AND REMOVAL OF ALL EROSION AND SEDIMENT CONTROL FEATURES **

1. PRIOR TO START OF CONSTRUCTION:

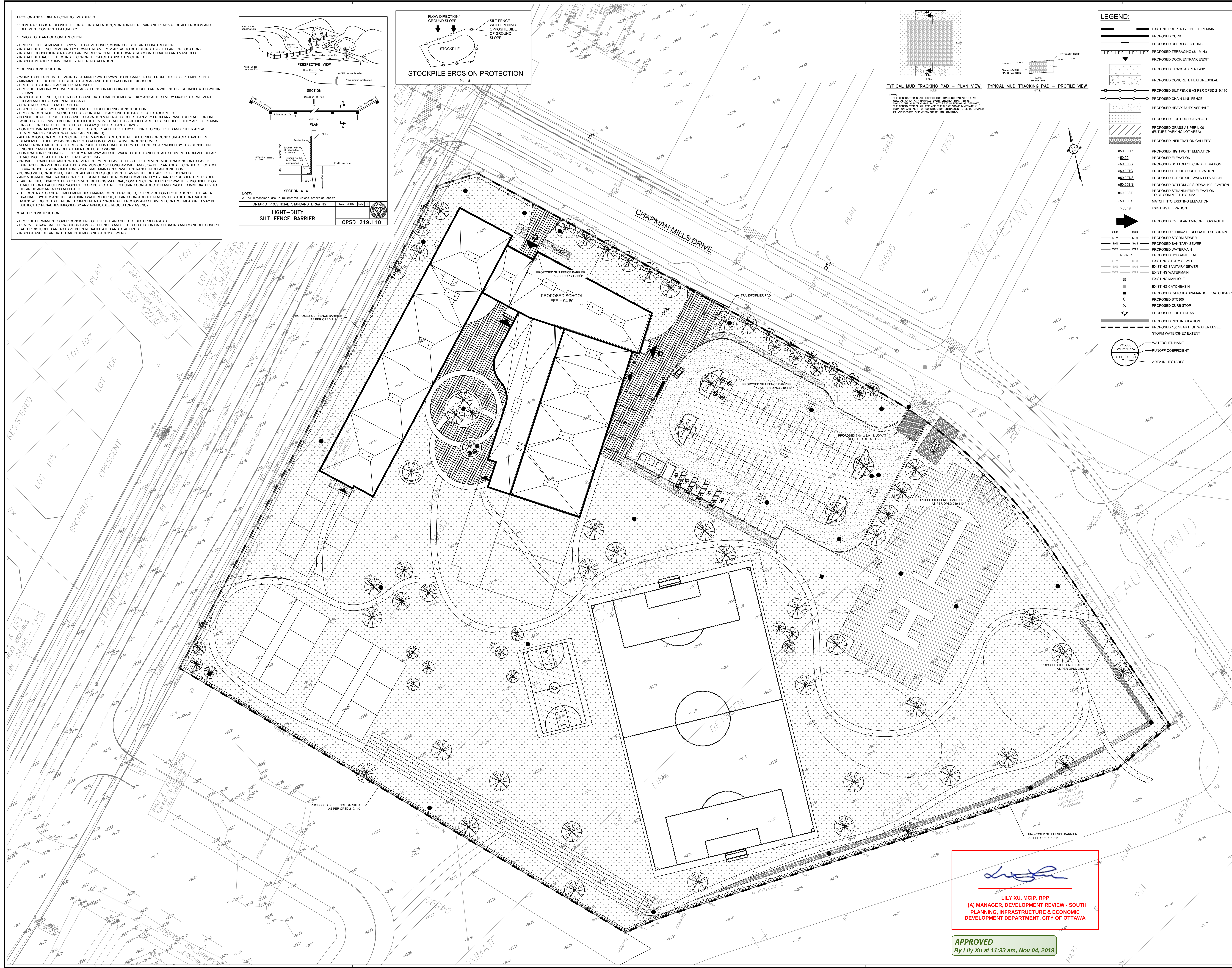
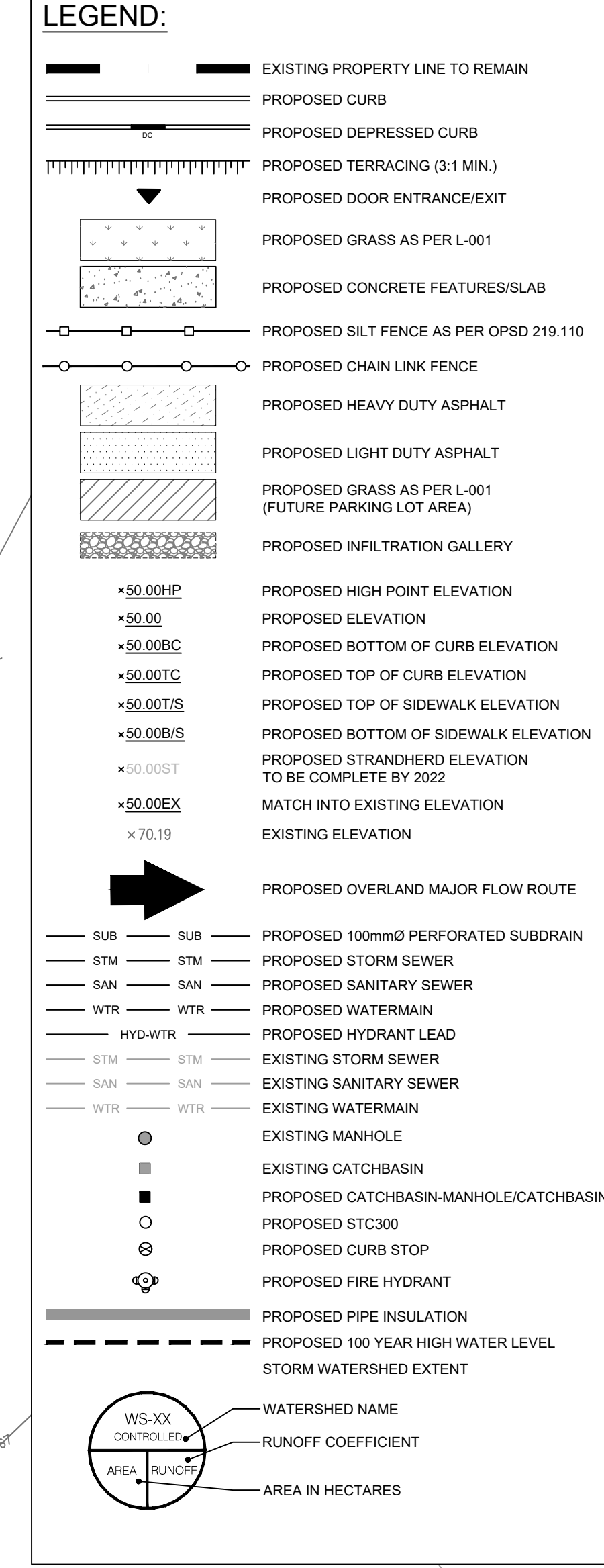
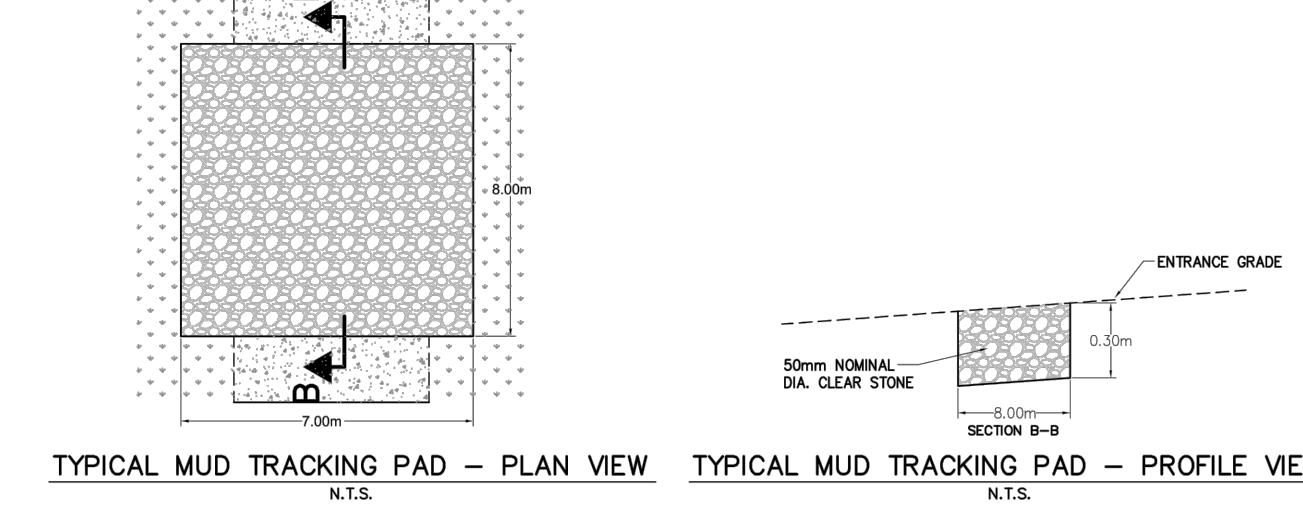
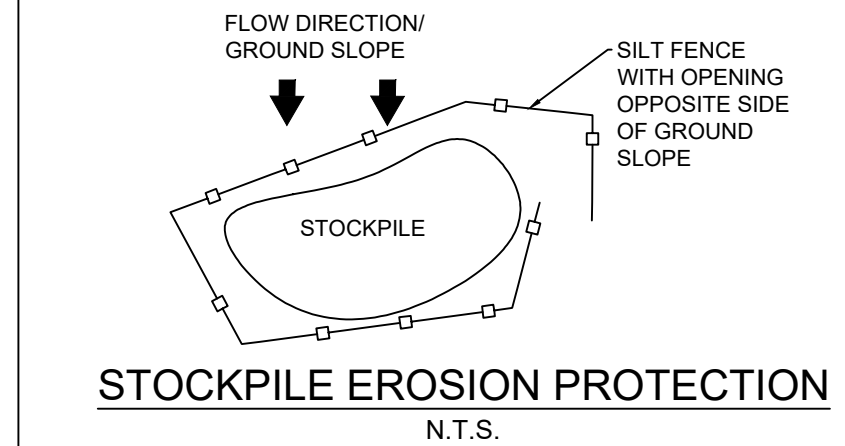
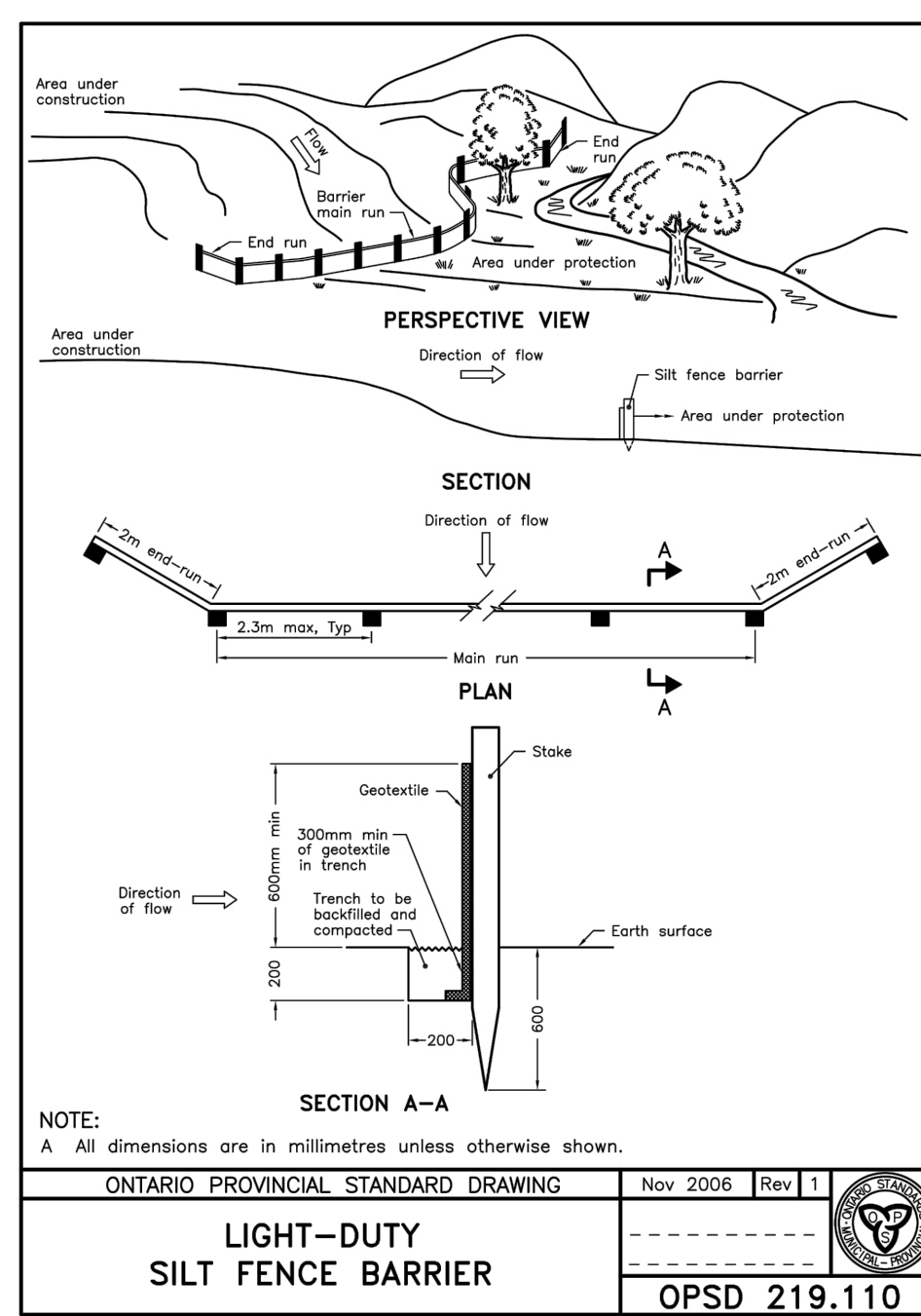
- PRIOR TO THE REMOVAL OF ANY VEGETATIVE COVER, MOVING OF SOIL AND CONSTRUCTION:
- INSTALL SILT FENCE IMMEDIATELY DOWNSTREAM FROM AREAS TO BE DISTURBED (SEE PLAN FOR LOCATION).
- INSTALL GEOTEXTILE INSERTS WITH AN OVERLAP ON ALL THE DOWNSTREAM CATCH BASINS AND MANHOLES.
- INSTALL SILT FENCE FILTERS IN ALL CONCRETE CATCH BASIN STRUCTURES.
- INSPECT MEASURES IMMEDIATELY AFTER INSTALLATION.

2. DURING CONSTRUCTION:

- WORK TO BE DONE IN THE VICINITY OF MAJOR WATERWAYS TO BE CARRIED OUT FROM JULY TO SEPTEMBER ONLY.
- MINIMIZE THE EXTENT OF DISTURBED AREAS AND THE DURATION OF EXPOSURE.
- PROTECT DISTURBED AREAS FROM RUNOFF.
- PROVIDE TEMPORARY COVER SUCH AS SEEDING OR MULCHING IF DISTURBED AREA WILL NOT BE REHABILITATED WITHIN 30 DAYS.
- INSPECT SILT FENCES, FILTER CLOTHS AND CATCH BASIN SUMP WEEKLY AND AFTER EVERY MAJOR STORM EVENT. CLEAN AND REPAIR WHEN NECESSARY.
- CONSTRUCT SWALES AS PER DETAIL.
- PLAN TO BE REVIEWED AND REVISED AS REQUIRED DURING CONSTRUCTION.
- EROSION CONTROL FENCING TO BE ALSO INSTALLED AROUND THE BASE OF ALL STOCKPILES.
- DO NOT LOCATE TOPSOIL PILES AND EXCAVATION MATERIAL CLOSER THAN 2.5m FROM ANY PAVED SURFACE, OR ONE WHICH IS TO BE PAVED BEFORE THE PILE IS REMOVED. ALL TOPSOIL PILES ARE TO BE SEEDS IF THEY ARE TO REMAIN ON SITE LONG ENOUGH FOR SEEDS TO GROW (LONGER THAN 30 DAYS).
- CONTROL WIND-BLOWN DUST OFF SITE TO ACCEPTABLE LEVELS BY SEEDING TOPSOIL PILES AND OTHER AREAS TEMPORARILY PROVIDE WATERING AS REQUIRED.
- ALL EROSION CONTROL STRUCTURE TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN STABILIZED EITHER BY PAVING OR RESTORATION OF VEGETATIVE GROUND COVER.
- NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THIS CONSULTING ENGINEER AND THE CITY DEPARTMENT OF PUBLIC WORKS.
- CONTRACTOR RESPONSIBLE FOR CITY ROADWAY AND SIDEWALK TO BE CLEARED OF ALL SEDIMENT FROM VEHICULAR TRACKING ETC. AT THE END OF EACH WORK DAY.
- PROVIDE GRAVEL ENTRANCE WHEREVER EQUIPMENT LEAVES THE SITE TO PREVENT MUD TRACKING ONTO PAVED SURFACES. GRAVEL BED SHALL BE A MINIMUM OF 15m LONG, 4M WIDE AND 0.3m DEEP AND SHALL CONSIST OF COARSE (50mm CRUSHER-RUN LIMESTONE) MATERIAL. MAINTAIN GRAVEL ENTRANCE IN CLEAN CONDITION.
- DURING WET CONDITIONS, TRUCKS OF ALL VEHICLES EQUIPMENT LEAVING THE SITE ARE TO BE SCRAPED.
- ANY MUD MATERIAL TRACKED ONTO THE ROAD SHALL BE REMOVED IMMEDIATELY BY HAND OR RUBBER TIRE LOADER.
- TAKE ALL NECESSARY STEPS TO PREVENT BUILDING MATERIAL, CONSTRUCTION DEBRIS OR WASTE BEING SPILLED OR TRACKED ONTO ADJACENT PROPERTIES OR PUBLIC STREETS DURING CONSTRUCTION AND PROCEED IMMEDIATELY TO CLEAN UP ANY AREAS SO AFFECTED.
- THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE. DURING CONSTRUCTION ACTIVITIES THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.

3. AFTER CONSTRUCTION:

- PROVIDE PERMANENT COVER CONSISTING OF TOPSOIL AND SEED TO DISTURBED AREAS.
- REMOVE STRAW BALE FLOW CHECK DAMS, SILT FENCES AND FILTER CLOTHS ON CATCH BASINS AND MANHOLE COVERS AFTER DISTURBED AREAS HAVE BEEN REHABILITATED AND STABILIZED.
- INSPECT AND CLEAN CATCH BASIN SUMPS AND STORM SEWERS.



11	2019/10/09	RE-ISSUED FOR SPA	M.L.
10	2019/09/12	ISSUED AS PER ADDENDUM NO.03	M.L.
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06	2019/07/03	ISSUED AS PER CITY COMMENTS	G.B.
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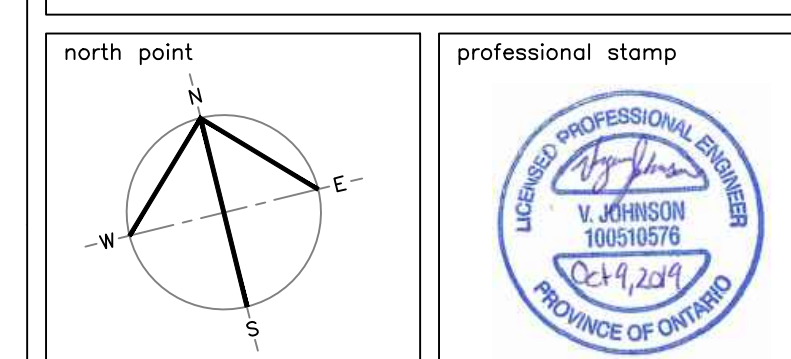
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consultant

LRJ

ENGINEERING | IMEINGERS

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project title

NOUVELLE ÉCOLE SECONDAIRE BARRHAVEN

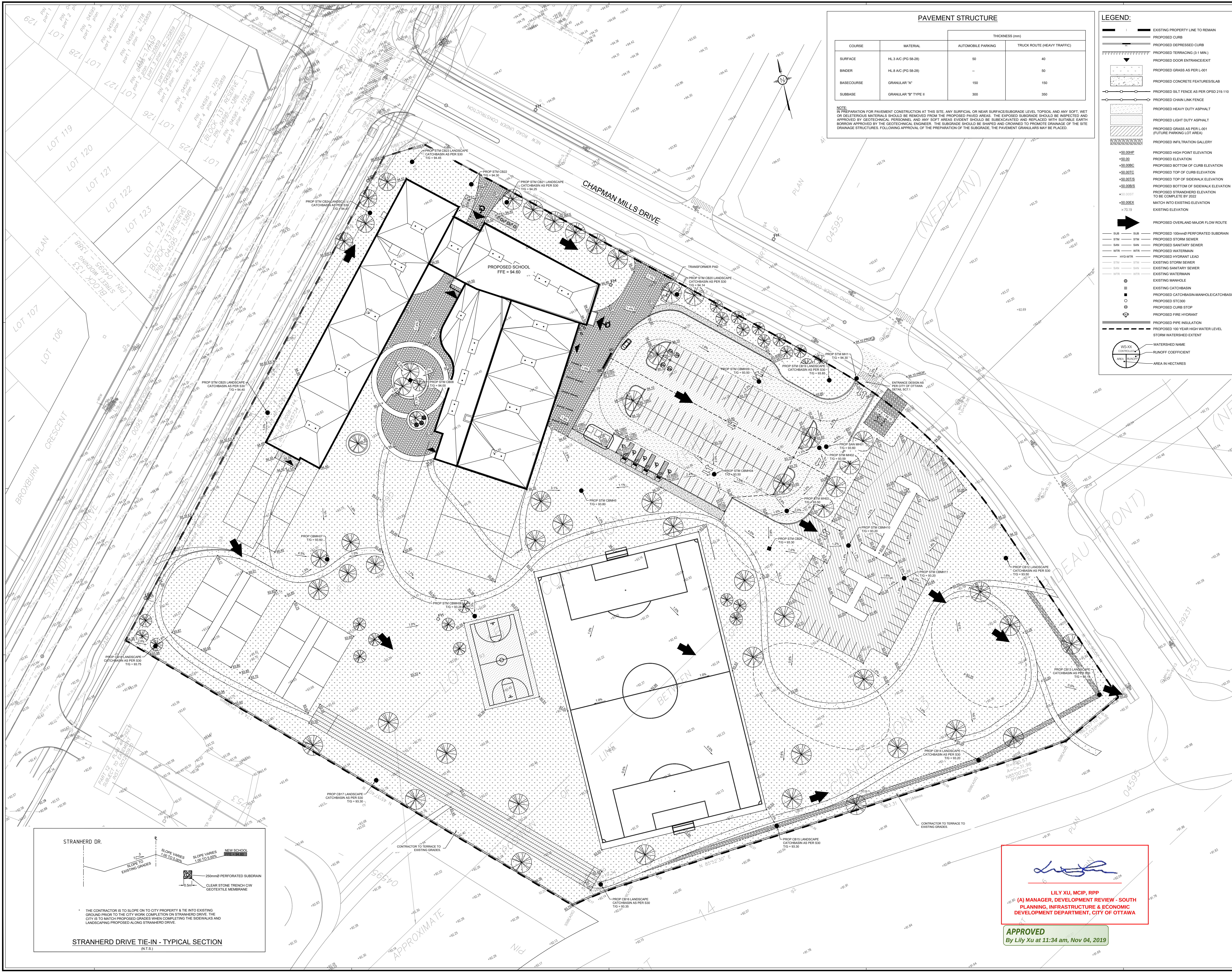
Barrhaven Ontario

drawing title	EROSION AND SEDIMENT CONTROL PLAN
date	25/01/2018
scales	1:400
drawn	M.L.
approved	J.C.L.
plot date	25/01/2018
job.no.	1817
drawing no.	C101

1. DO NOT SCALE THIS DRAWING.
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3. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWINGS: STRUCTURAL, MECHANICAL, ELECTRICAL.

LILY XU, MCIP, RPP
(A) MANAGER, DEVELOPMENT REVIEW - SOUTH
PLANNING, INFRASTRUCTURE & ECONOMIC
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

APPROVED
By Lily Xu at 11:33 am, Nov 04, 2019



PAVEMENT STRUCTURE			
COURSE	MATERIAL	THICKNESS (mm)	
		AUTOMOBILE PARKING	TRUCK ROUTE (HEAVY TRAFFIC)
SURFACE	HL 3 A/C (PG 58-28)	50	40
BINDER	HL 6 A/C (PG 58-28)	—	50
BASECOURSE	GRANULAR "A"	150	150
SUBBASE	GRANULAR "B" TYPE II	300	350

NOTE: IN PREPARATION FOR PAVEMENT CONSTRUCTION AT THIS SITE, ANY SURFICIAL OR NEAR SURFACE/SUBGRADE LEVEL TOPSOIL AND ANY SOFT, WET OR DELICIOUS MATERIALS SHOULD BE REMOVED FROM THE PROPOSED PAVED AREAS. THE EXPOSED SUBGRADE SHOULD BE INSPECTED AND APPROVED BY GEOTECHNICAL PERSONNEL. ANY SOFT AREAS EVIDENT SHOULD BE SUBCUTTED AND REPLACED WITH SUITABLE EARTH BORROW APPROVED BY THE GEOTECHNICAL ENGINEER. THE SUBGRADE SHOULD BE SHAPED AND CROWNED TO PROMOTE DRAINAGE OF THE SITE DRAINAGE STRUCTURES. FOLLOWING APPROVAL OF THE PREPARATION OF THE SUBGRADE, THE PAVEMENT GRANULARES MAY BE PLACED.

LEGEND:

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- PROPOSED DOOR ENTRANCE/EXIT
- PROPOSED GRASS AS PER L-001
- PROPOSED CONCRETE FEATURES/SLAB
- PROPOSED SILT FENCE AS PER GPSD 219.110
- PROPOSED CHAIN LINK FENCE
- PROPOSED HEAVY DUTY ASPHALT
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- PROPOSED STRANDHERD ELEVATION TO BE COMPLETE BY 2022
- MATCH INTO EXISTING ELEVATION
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- PROPOSED 100mmØ PERFORATED SUBDRAIN
- PROPOSED STORM SEWER
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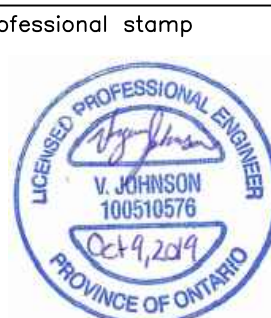
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project title

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Barbhamen Ontario

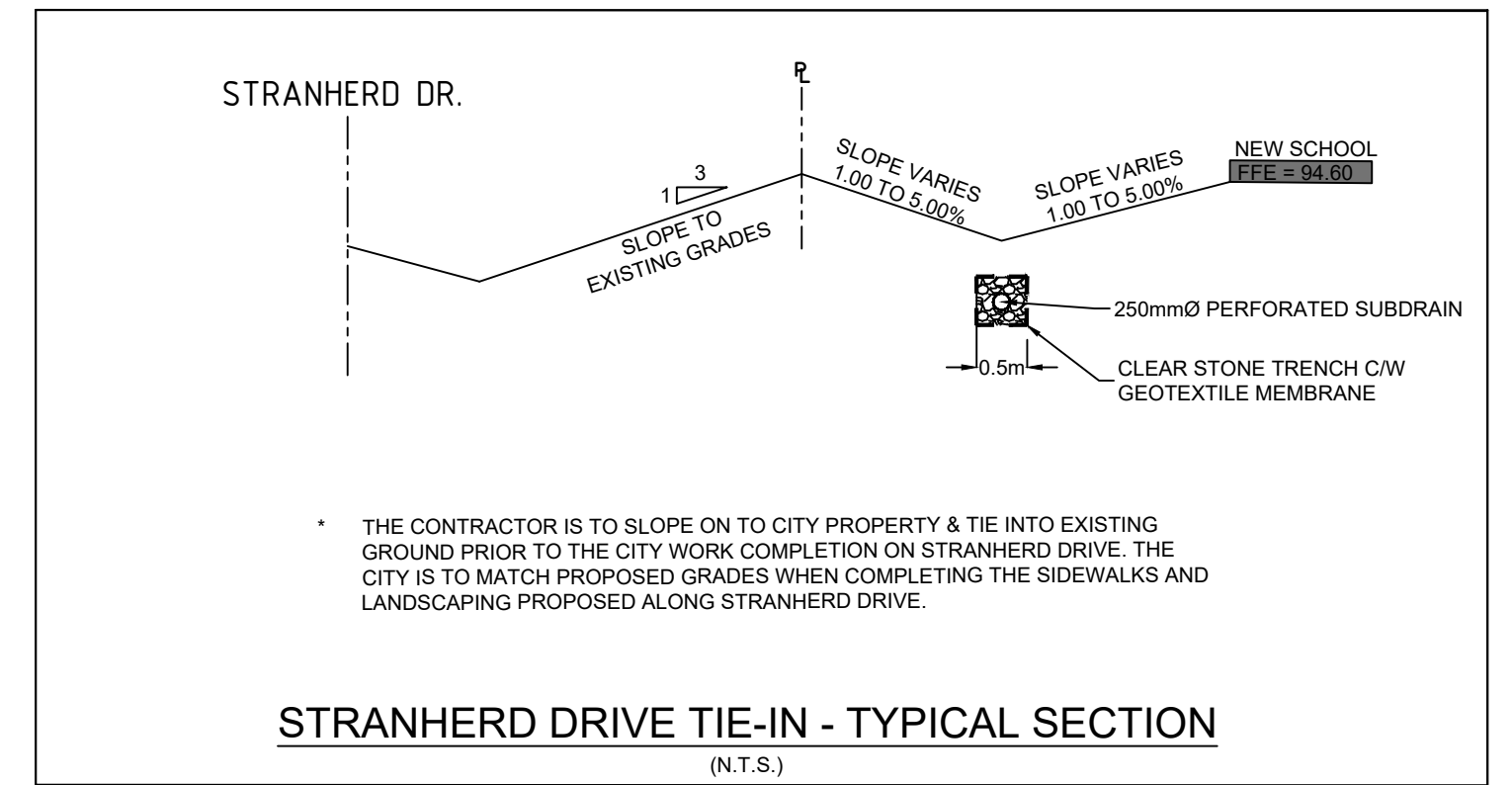
drawing title

GRADING AND DRAINAGE PLAN

date	25/01/2018	job.no.	1817
scales	1:400	drawing no.	C301
drawn	M.L.		
approved	J.C.L.		
plot date	25/01/2018		

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PLANNING, INFRASTRUCTURE & ECONOMIC
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA
APPROVED
By Lily Xu at 11:34 am, Nov 04, 2019



NOTES: GENERAL

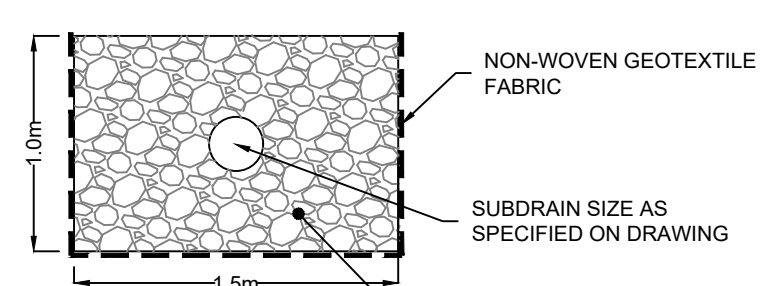
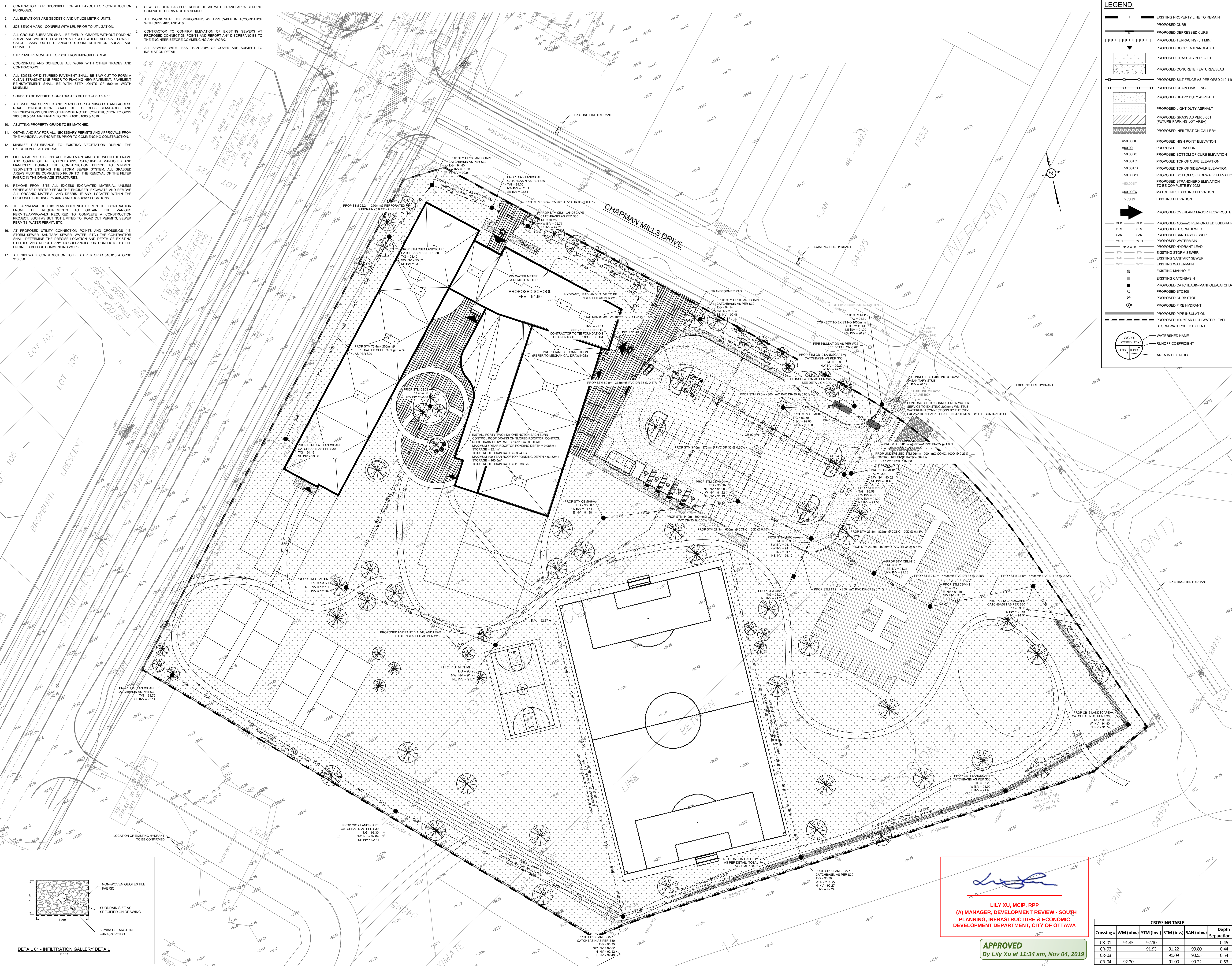
- CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION PURPOSES.
- ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS.
- JOB BENCH MARK - CONFIRM WITH LRL PRIOR TO UTILIZATION.
- ALL GROUND SURFACES SHALL BE EVENLY GRAZED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE CATCH BASIN, OUTLETS AND/OR STORM DETENTION AREAS ARE PROVIDED.
- STRIP AND REMOVE ALL TOPSOIL FROM IMPROVED AREAS.
- COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A CLEAN STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT. PAVEMENT REINSTATEMENT SHALL BE WITH STEP JOINTS OF 500mm WIDTH MINIMUM.
- CURBS TO BE BARRIER, CONSTRUCTED AS PER OPSD 600.110.
- ALL MATERIAL SUPPLIED AND PLACED FOR PARKING LOT AND ACCESS ROAD CONSTRUCTION SHALL BE TO OPSD STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED CONSTRUCTION TO OPSD 206.310 & 314. MATERIALS TO OPSD 1001, 1003 & 1015.
- ABUTTING PROPERTY GRADE TO BE MATCHED.
- OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE MUNICIPAL AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION.
- MINIMIZE DISTURBANCE TO EXISTING VEGETATION DURING THE EXECUTION OF ALL WORKS.
- FILTER FABRIC TO BE INSTALLED AND MAINTAINED BETWEEN THE FRAME AND COVER OF ALL CATCHBASINS, CATCHBASIN MANHOLES AND MANHOLES DURING THE CONSTRUCTION PERIOD TO MINIMIZE SEDIMENTS ENTERING THE STORM SEWER SYSTEM. ALL GRADED AREAS MUST BE COMPLETED PRIOR TO THE REMOVAL OF THE FILTER FABRIC IN THE DRAINAGE STRUCTURES.
- REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL, UNLESS OTHERWISE DIRECTED FROM THE ENGINEER. EXCAVATE AND REMOVE ALL ORGANIC MATERIAL AND DEBRIS, IF ANY, LOCATED WITHIN THE PROPOSED BUILDING, PARKING AND ROADWAY LOCATIONS.
- THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE CONTRACTOR FROM THE REQUIREMENTS TO OBTAIN THE VARIOUS PERMITS/APPROVALS REQUIRED TO COMPLETE A CONSTRUCTION PROJECT, SUCH AS BUT NOT LIMITED TO: ROAD CUT PERMITS, SEWER PERMITS, WATER PERMIT, ETC.
- 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.
- ALL SIDEWALK CONSTRUCTION TO BE AS PER OPSD 310.010 & OPSD 310.050.

NOTES: SEWERS

- SEWER BEDDING AS PER TRENCH DETAIL WITH GRANULAR 'A' BEDDING COMPACTED TO 95% OF ITS SPMD.
- ALL WORK SHALL BE PERFORMED, AS APPLICABLE, IN ACCORDANCE WITH OPSD 407 AND 410.
- CONTRACTOR TO CONFIRM ELEVATION OF EXISTING SEWERS AT PROPOSED CONNECTION POINTS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE COMMENCING ANY WORK.
- ALL SEWERS WITH LESS THAN 2.0m OF COVER ARE SUBJECT TO INSULATION DETAIL.

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DETAIL 01 - INFILTRATION GALLERY DETAIL

[Signature]
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 PLANNING, INFRASTRUCTURE & ECONOMIC
 DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

APPROVED
 By Lily Xu at 11:34 am, Nov 04, 2019

CROSSING TABLE				
Crossing #	WM (obv.)	STM (inv.)	STM (inv.)	Depth Separation (m)
CR-01	91.45	92.10		0.45
CR-02		91.93	91.22	0.44
CR-03		91.09	90.55	0.54
CR-04	92.20		91.00	0.53

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north point

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project title
NOUVELLE ÉCOLE SECONDAIRE BARRHAVEN
 Barrhaven, Ontario

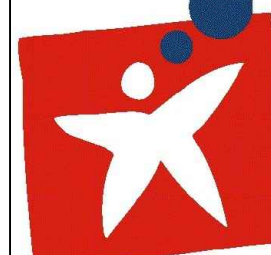
SERVICING PLAN		
date	25/01/2018	job.no.
scales	1:400	1817
drawn	M.L.	drawing no.
approved	J.C.L.	C401
plot date	25/01/2018	

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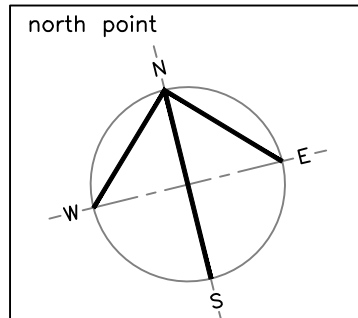
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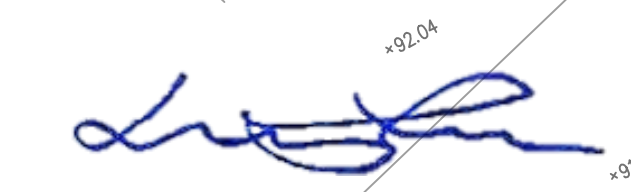
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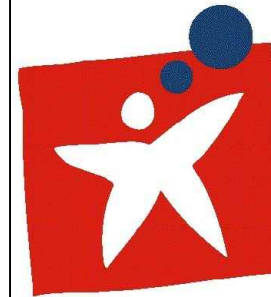
PRE-DEVELOPMENT
WATERSHED PLAN

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scales	1:400	drawing no.	C701
drawn	M.L.		
approved	J.C.L.		
plot date	25/01/2018		

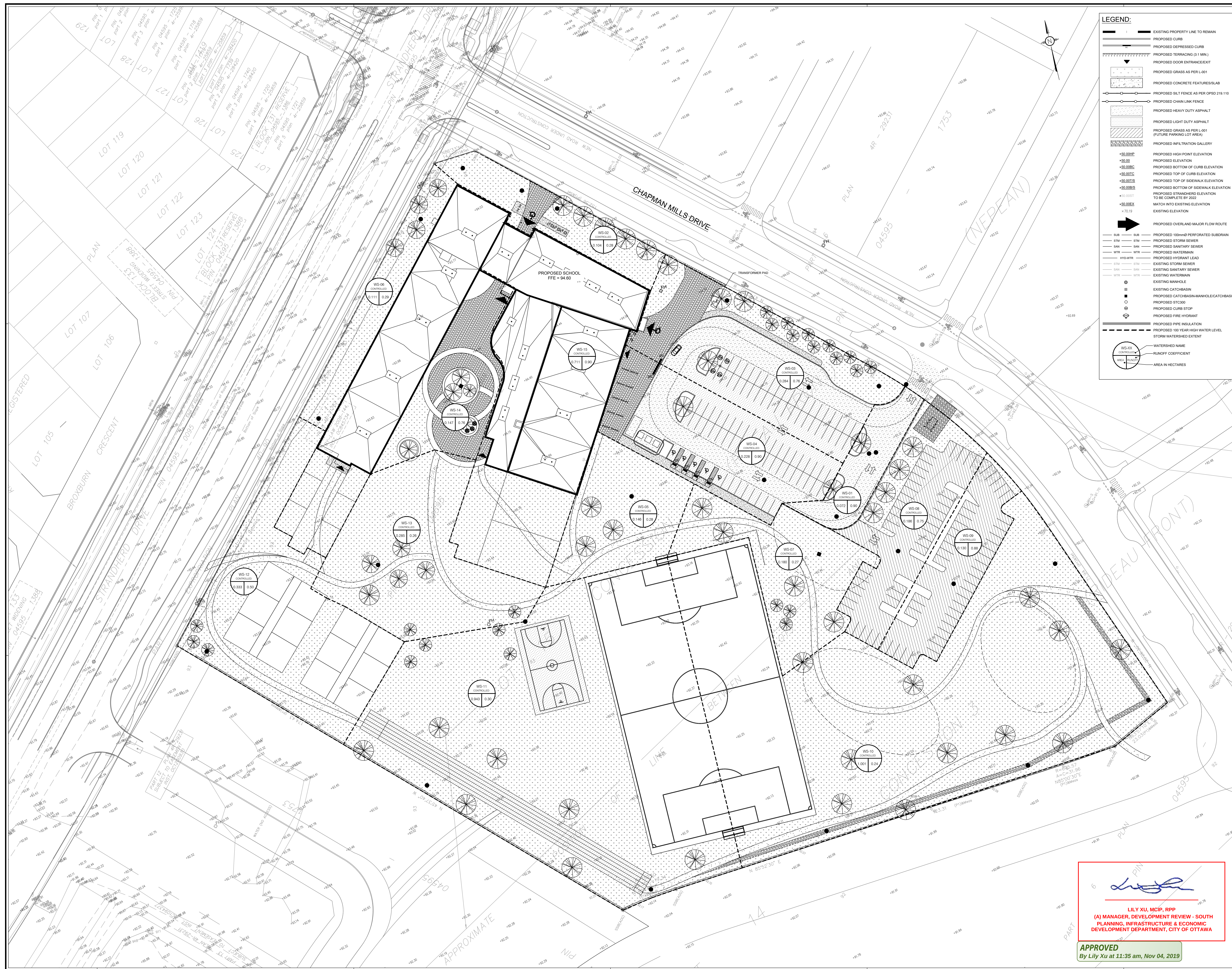
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LILY XU, MCIP, RPP
(A) MANAGER, DEVELOPMENT REVIEW - SOUTH
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DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

APPROVED
By Lily Xu at 11:35 am, Nov 04, 2019



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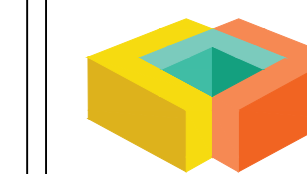
11	2019/10/09	RE-ISSUED FOR SPA	M.L
10	2019/09/12	ISSUED AS PER ADDENDUM NO.03	M.L
09	2019/08/15	ISSUED AS PER ADDENDUM NO.02	M.L
08	2019/08/29	ISSUED AS PER ADDENDUM NO.01	M.L
07	2019/07/04	ISSUED TENDER	G.B
06	2019/07/03	ISSUED AS PER CITY COMMENTS	G.B
05	2019/05/28	ISSUED AS PER COMMENTS	G.B
04	2019/05/13	ISSUED FOR PERMIT	G.B
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no.	date	revision / issue	by



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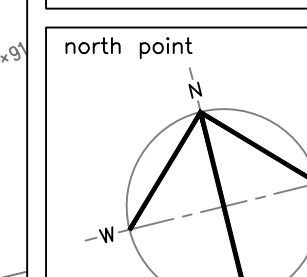
47 Clarence Street, Suite 401,
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consultant



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professional stamp



project title

NOUVELLE ÉCOLE
SECONDAIRE
BARRHAVEN

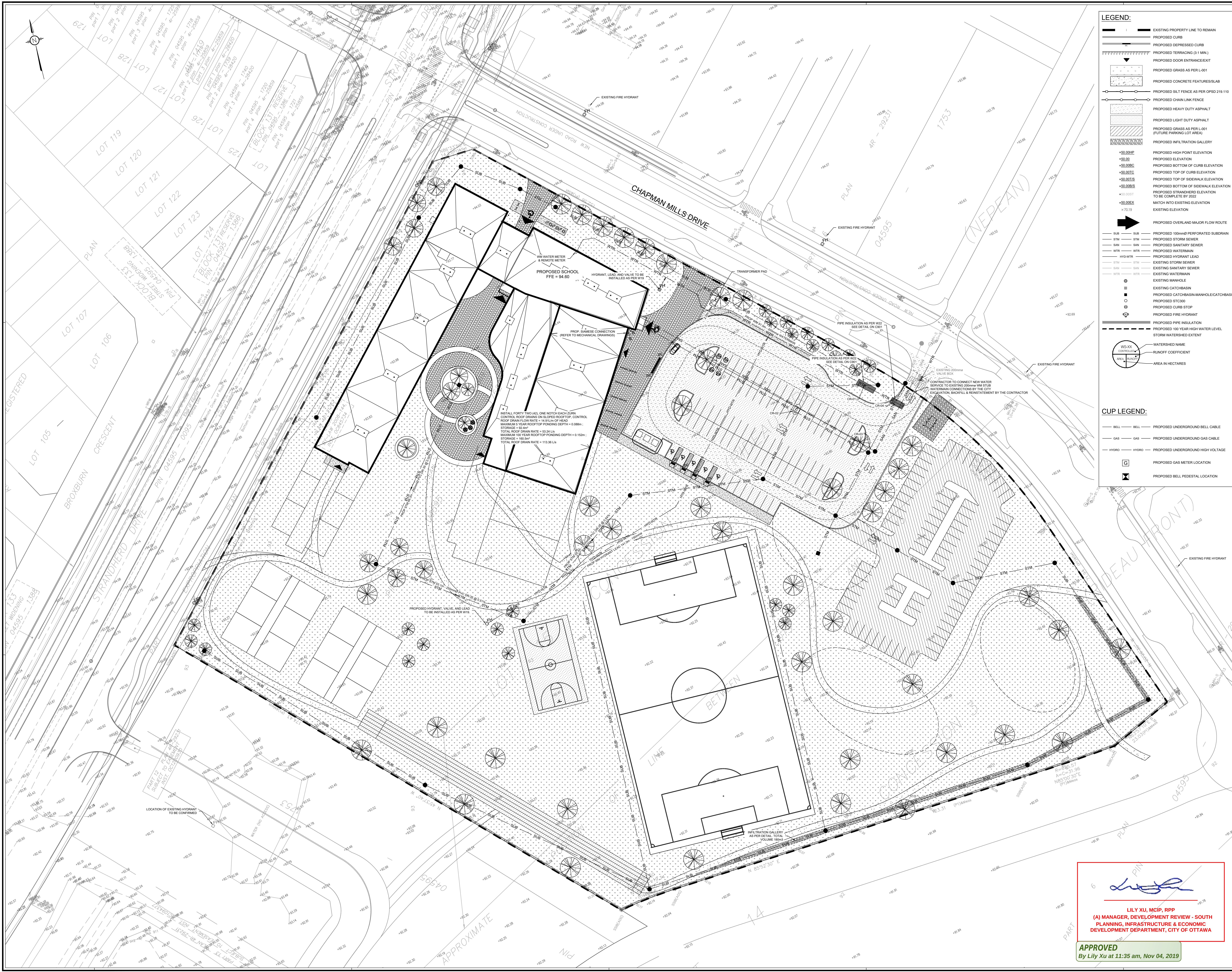
Barrhaven

Ontario

drawing title		
POST-DEVELOPMENT WATERSHED PLAN		
date	25/01/2018	job.no.
scales	1:400	1817
drawn	M.L.	drawing no. C702
approved	J.C.L.	
plot date	25/01/2018	

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LEGEND:

- EXISTING PROPERTY LINE TO REMAIN
- PROPOSED CURB
- PROPOSED DEPRESSED CURB
- PROPOSED TERRACING (3:1 MIN.)
- PROPOSED DOOR ENTRANCE/EXIT
- PROPOSED GRASS AS PER L-001
- PROPOSED CONCRETE FEATURES/SLAB
- PROPOSED SILT FENCE AS PER OPSD 219.110
- PROPOSED CHAIN LINK FENCE
- PROPOSED HEAVY DUTY ASPHALT
- PROPOSED LIGHT DUTY ASPHALT
- PROPOSED GRASS AS PER L-001 (FUTURE PARKING LOT AREA)
- PROPOSED INFILTRATION GALLERY
- PROPOSED HIGH POINT ELEVATION
- PROPOSED ELEVATION
- PROPOSED BOTTOM OF CURB ELEVATION
- PROPOSED TOP OF CURB ELEVATION
- PROPOSED TOP OF SIDEWALK ELEVATION
- PROPOSED BOTTOM OF SIDEWALK ELEVATION
- PROPOSED STRANDHERD ELEVATION TO BE COMPLETE BY 2022
- MATCH INTO EXISTING ELEVATION
- EXISTING ELEVATION
- PROPOSED OVERLAND MAJOR FLOW ROUTE
- PROPOSED 100mm PERFORATED SUBDRAIN
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED WATERMAIN
- PROPOSED HYDRANT LEAD
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- EXISTING MANHOLE
- EXISTING CATCHBASIN
- PROPOSED CATCHBASIN/MANHOLE/CATCHBASIN
- PROPOSED STC300
- PROPOSED CURB STOP
- PROPOSED FIRE HYDRANT
- PROPOSED PIPE INSULATION
- PROPOSED 100 YEAR HIGH WATER LEVEL
- STORM WATERSHED EXTENT
- WATERSHED NAME
- RUNOFF COEFFICIENT
- AREA IN HECTARES

CUP LEGEND:

- BELL - BELL - PROPOSED UNDERGROUND BELL CABLE
- GAS - GAS - PROPOSED UNDERGROUND GAS CABLE
- HYDRO - HYDRO - PROPOSED UNDERGROUND HIGH VOLTAGE
- PROPOSED GAS METER LOCATION
- PROPOSED BELL PEDESTAL LOCATION

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05	2019/05/28	ISSUED AS PER COMMENTS	G.B.
04	2019/05/13	ISSUED FOR PERMIT	G.B.
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02	2018/10/01	RE-ISSUED FOR SPA	G.B.
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professional stamp
Professional Engineer
J. V. Johnson
P. Eng. 12345
Province of Ontario

project title
NOUVELLE ÉCOLE
SECONDAIRE
BARRHAVEN
Barrhaven, Ontario

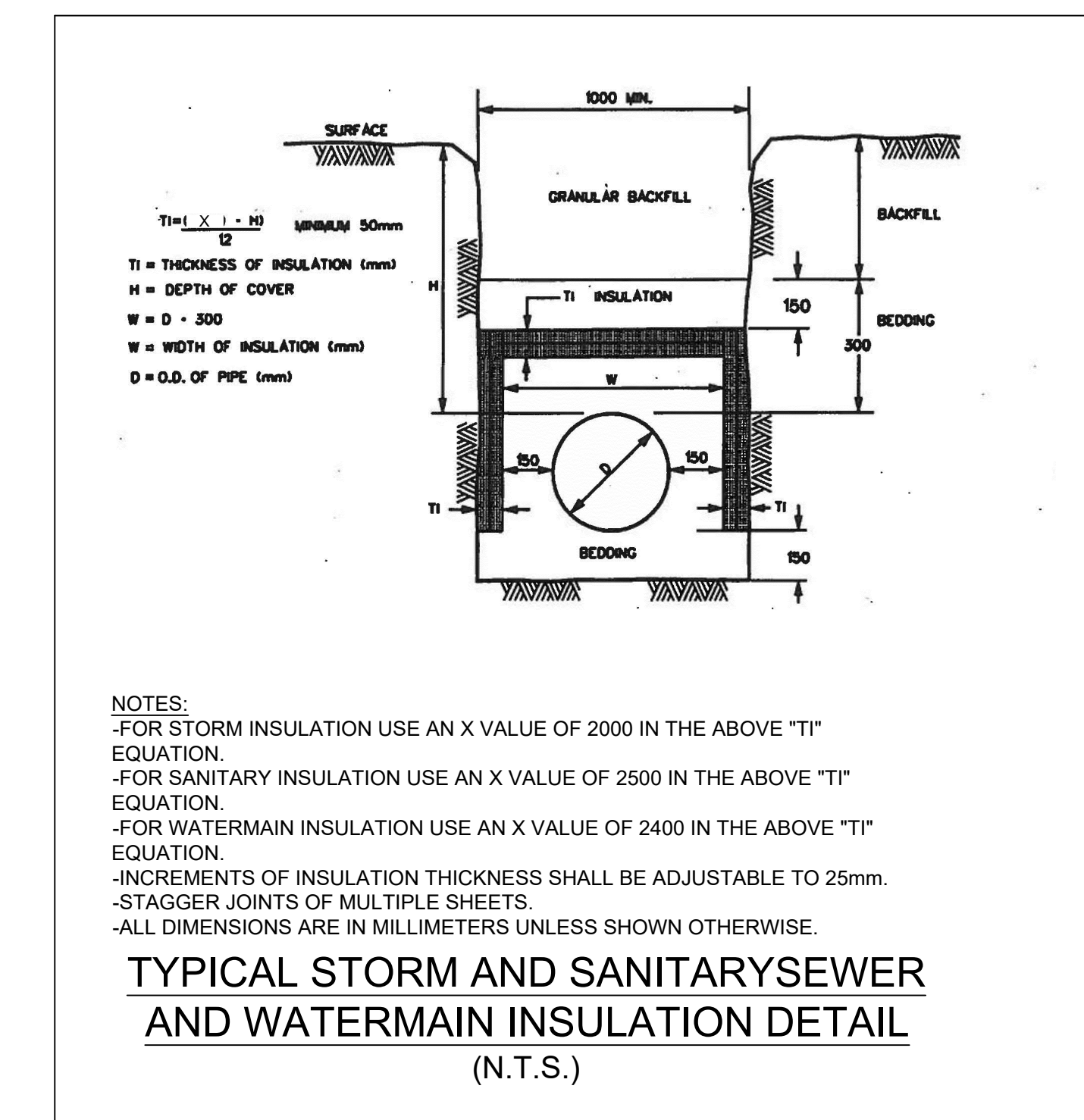
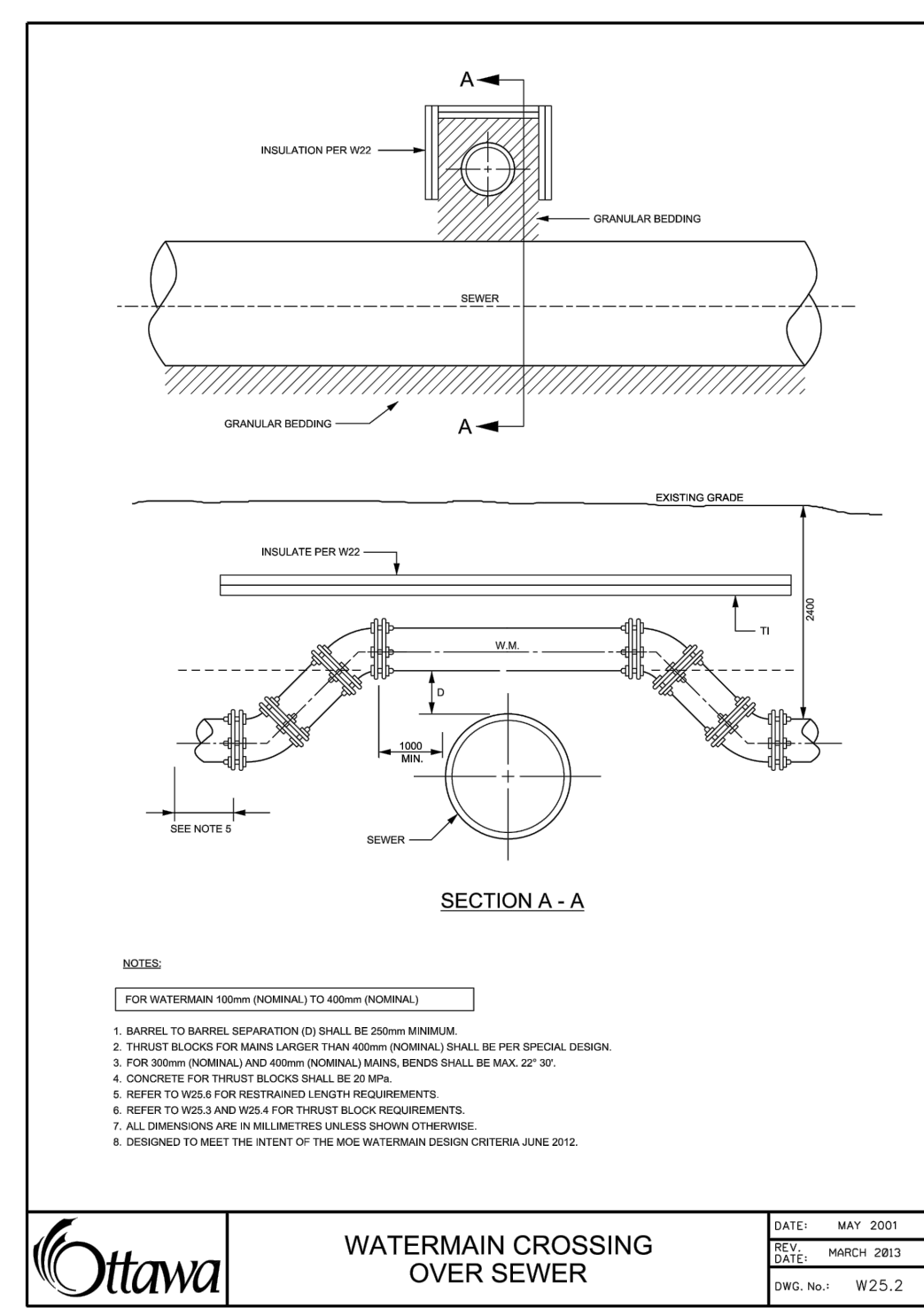
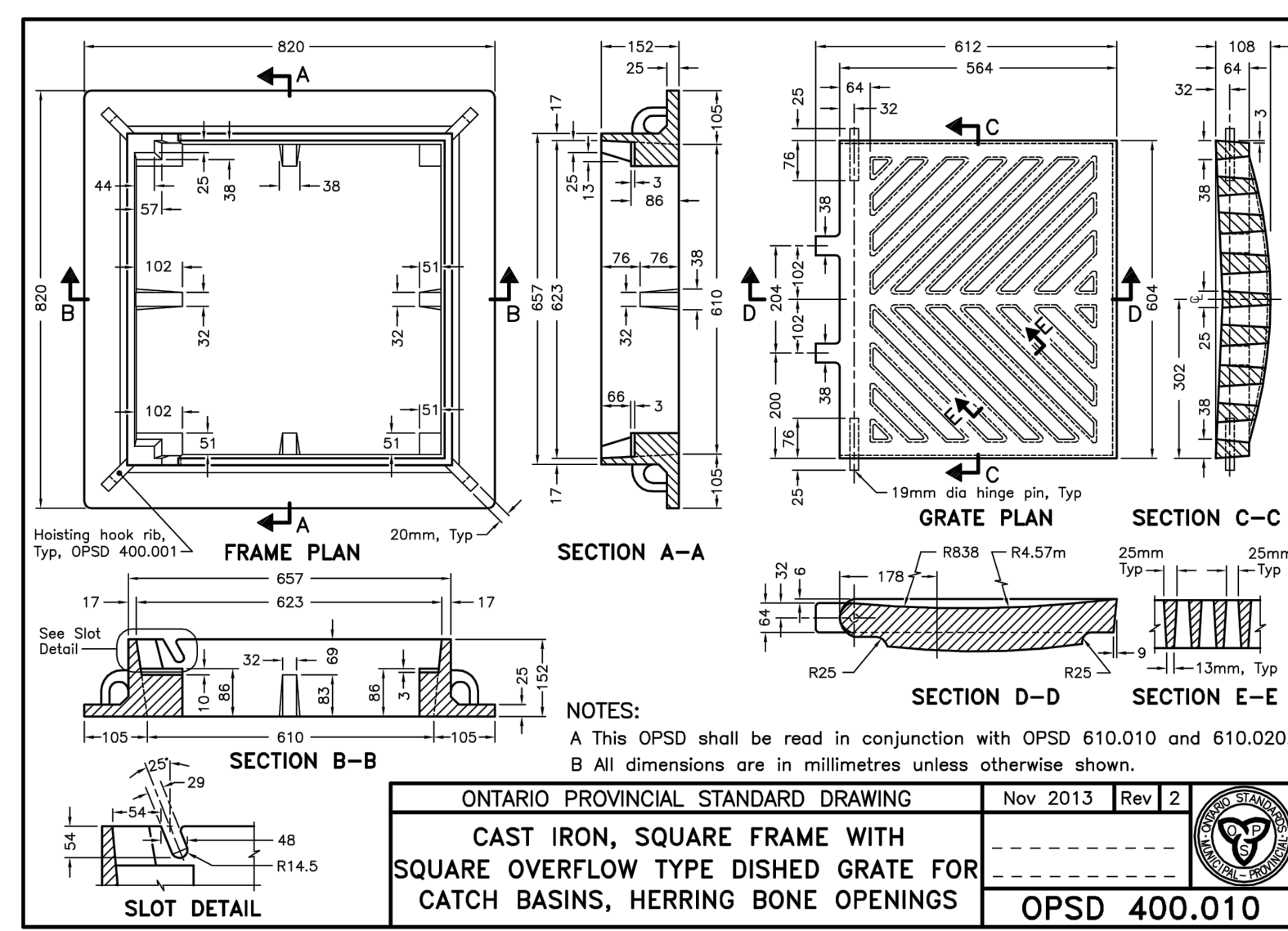
drawing title
COMPOSITE UTILITY PLAN

date	25/01/2018	job.no.	1817
scales	1:400	drawing no.	C801
drawn	M.L.		
approved	J.C.L.		
plot date	25/01/2018		

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