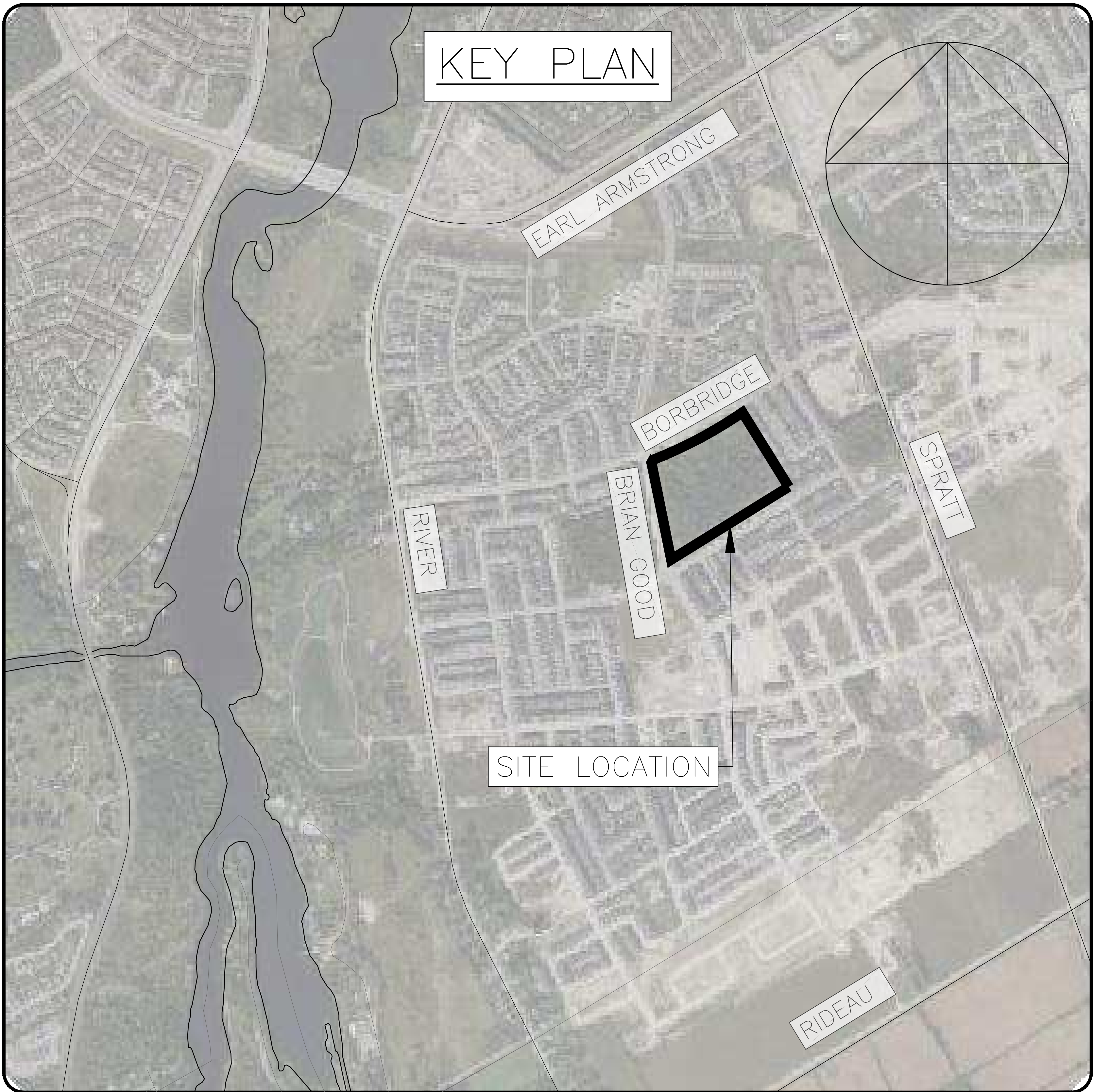


NEW HIGHSCHOOL 675 BORBRIDGE AVENUE OTTAWA, ONTARIO.



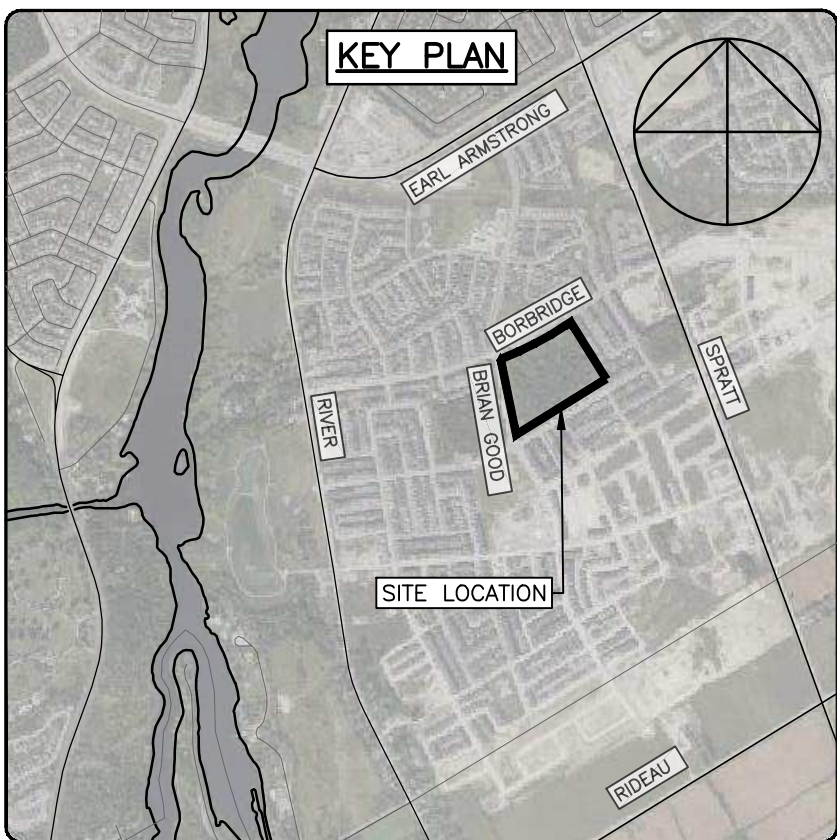
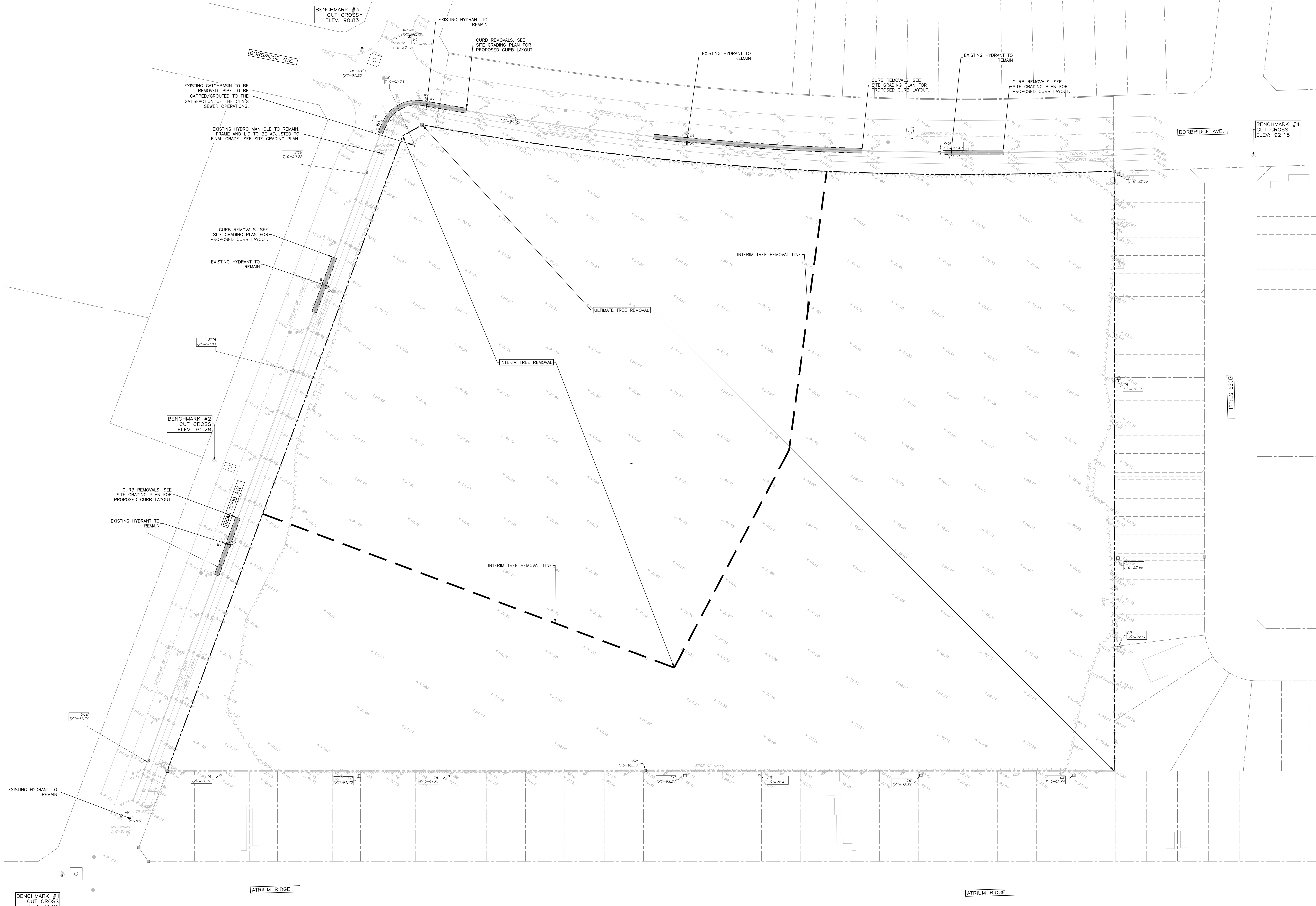
LIST OF DRAWINGS

DWG NO.	DWG TITLE	DATE
	COVER SHEET	04/04/2025
C000	NOTES & DETAILS	04/04/2025
C001	EXISTING CONDITIONS AND REMOVALS PLAN	04/04/2025
C100	SITE SERVICING PLAN	04/04/2025
C200-1	SITE GRADING PLAN - INTERIM	04/04/2025
C200-2	SITE GRADING PLAN - ULTIMATE	04/04/2025
C300	EROSION AND SEDIMENT CONTROL PLAN	04/04/2025
C500	POST-DEVELOPMENT SITE CATCHMENTS	04/04/2025

PROJECT No.OTT-24005530-AO
APRIL 2025

NOTES:

1. THE LOCATION OF UTILITIES IS APPROXIMATE ONLY, AND THE EXACT LOCATION SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE LOCATION AND STATUS OF UTILITIES AND SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION OF PLANT AND EQUIPMENT FROM DAMAGE UNTIL SUCH TIME AS THE SERVICE PROVIDER HAS CONFIRMED IN WRITING THE SERVICE IS ABANDONED AND CAN BE REMOVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY SERVICES OR UTILITIES DISTURBED DURING CONSTRUCTION, TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF EXISTING SERVICES PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL CONFIRM LOCATIONS AND ELEVATIONS OF EXISTING SERVICES PRIOR TO COMMENCING CONSTRUCTION. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES, INTERPRETATIONS, CHANGES AND ADDITIONS TO THESE DRAWINGS MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER, WHEN NOTED AND BEFORE PROCEEDING WITH CONSTRUCTION WORKS. DO NOT CONTINUE CONSTRUCTION IN AREAS WHERE DISCREPANCIES APPEAR UNTIL SUCH DISCREPANCIES HAVE BEEN RESOLVED.



LEGEND	
---	PROPERTY LINE
---	ABUTTING PL
---	EX. C.L. ROAD
---	EX. FEATURE
---	EX. CURB
+	SITE BENCHMARK
+	EX. WATER VALVE
+	EX. VALVE CHAMBER
+	EX. CATCH-BASIN
+	EX. SIDEWALK (CURB INLET) CATCH-BASIN
+	EX. HYDRANT
+	EX. STORM MANHOLE
+	EX. SANITARY MANHOLE
+	EX. MUNI. WATERMAIN
+	EX. MUNI. STORM SEWER
+	EX. MUNI. SAN SEWER
---	INTERIM GRADING TREE LINE
---	CURB & BOULEVARD REMOVALS

1	2025-04-04	ISSUED FOR SITE PLAN CONTROL	AKJ
0	2025-03-14	ISSUED FOR 33% CLIENT REVIEW	AKJ
no.	date	revision / issue	by

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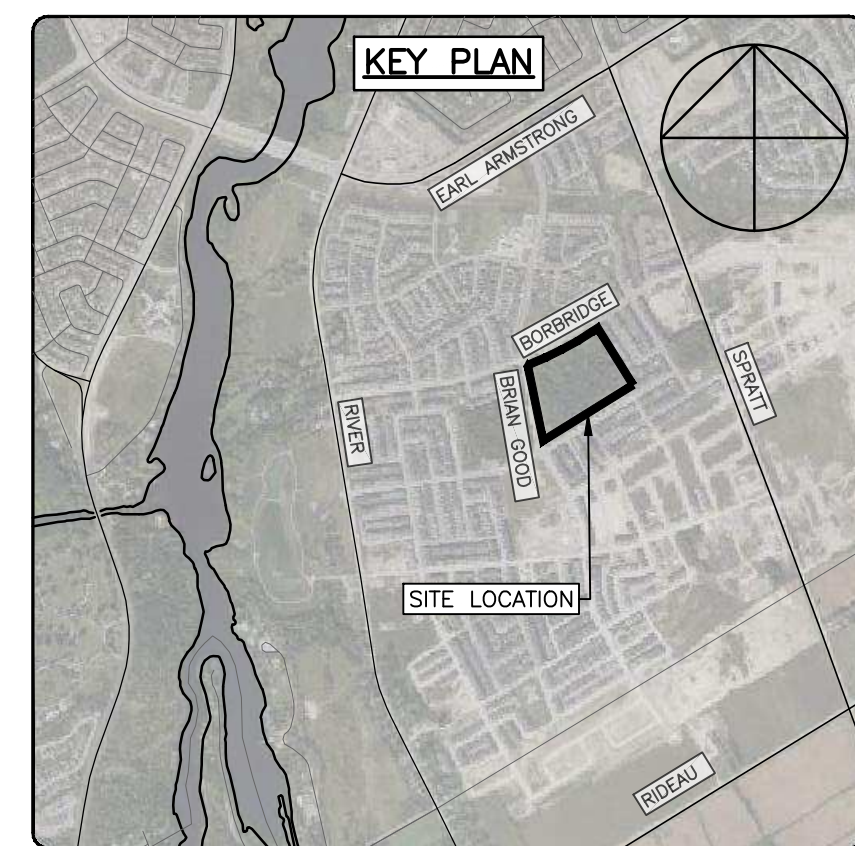
project title
**New High School -
Riverside South**

Manitowick Ontario

drawing title
**EXISTING CONDITIONS &
REMOVALS PLAN**

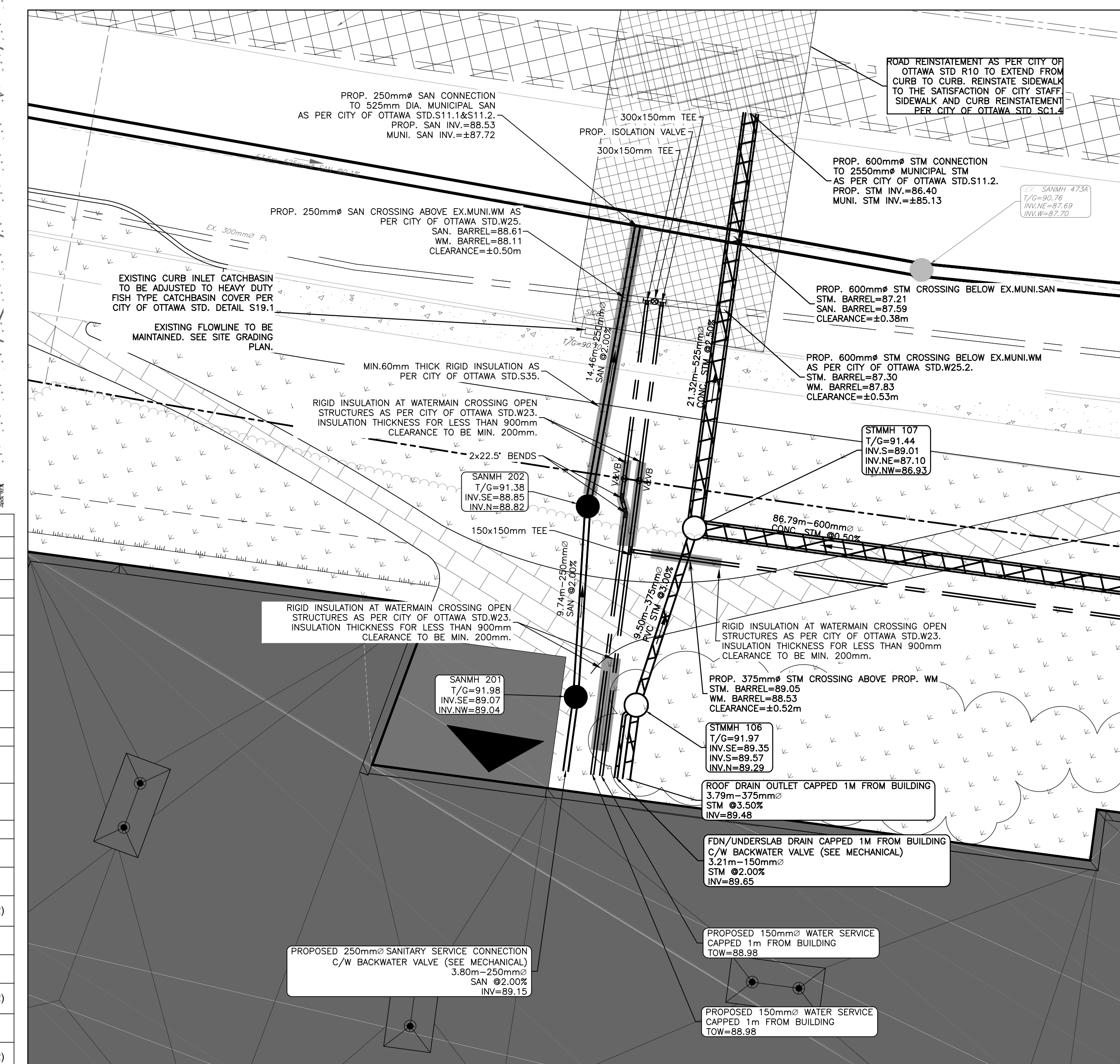
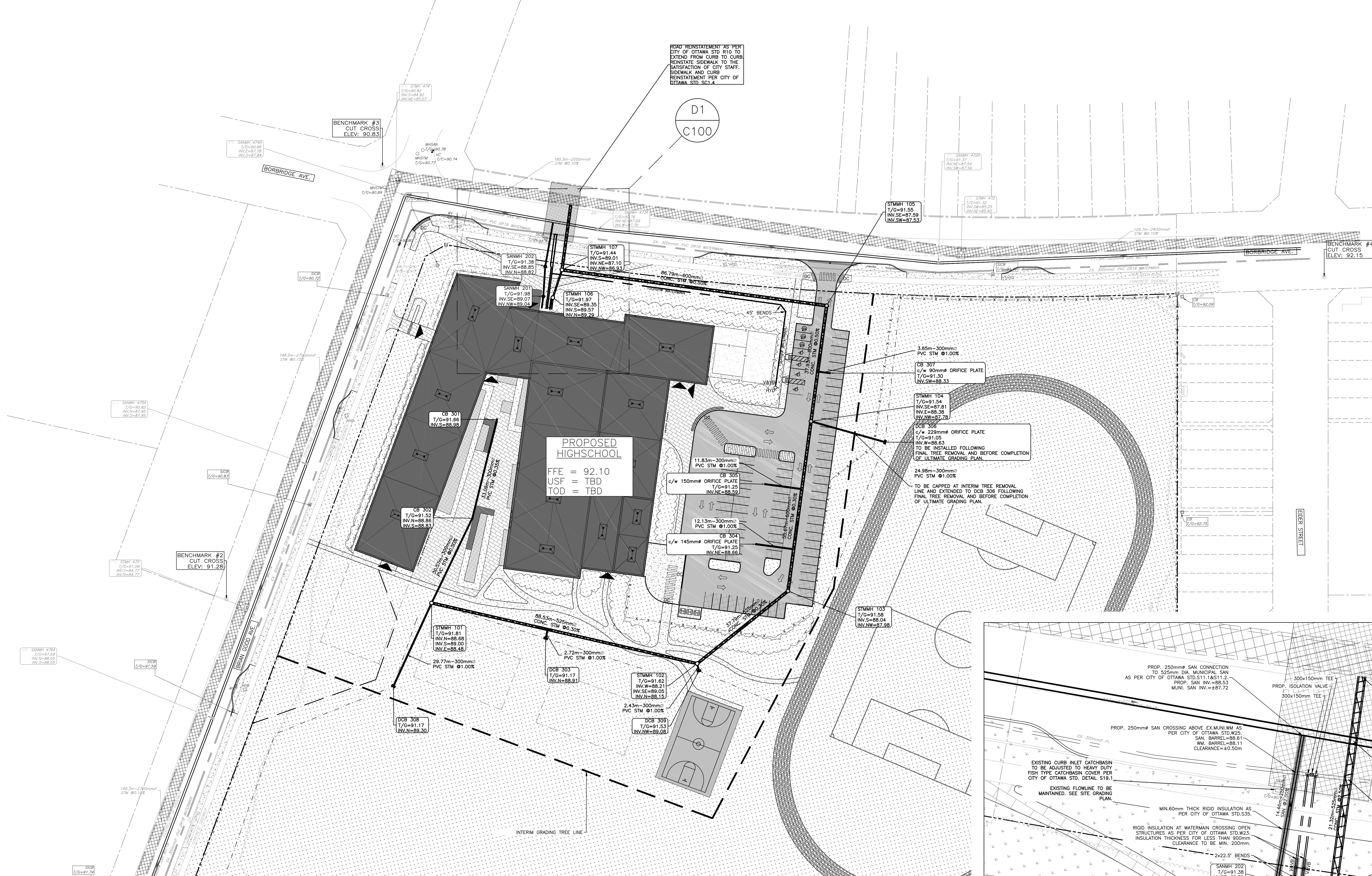
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drawn	AGJ		
approved	AKJ		
plot date	4/4/2025 12:51:32 PM		

DO NOT SCALE FROM THIS DRAWING
2. CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE WORK COMMENCES
3. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWINGS: ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, LANDSCAPE



LEGEND

---	PROPERTY LINE
---	ABUTTING PL
---	EX. C.L. ROAD
---	EX. FEATURE
---	EX. CURB
+	SITE BENCHMARK
+	EX. WATER VALVE
+	EX. VALVE CHAMBER
+	EX. CATCH-BASIN
+	EX. SIDEWALK (CURB INLET) CATCH-BASIN
+	EX. HYDRANT
+	EX. STORM MANHOLE
+	EX. SANITARY MANHOLE
+	EX. MUNI. WATERMAIN
+	EX. MUNI. STORM SEWER
+	EX. MUNI. SAN SEWER
+	PROP. STORM PIPE
+	PROP. SANITARY SERVICE
+	PROP. WATER SERVICE
+	PROP. STORM MANHOLE
+	PROP. DOUBLE CATCH-BASIN
+	PROP. CATCH-BASIN
+	PROP. SANITARY MANHOLE
+	PROP. WATER SERVICE CONNECTION TO MUNI. WATERMAIN
+	PROP. VALVE & VALVE BOX
+	PROP. ELBOW (22.5°)
+	PROP. MUNI. WATERMAIN
+	PROP. INSULATION VALVE
+	PROPOSED ROOF DRAIN
+	INSULATION INSULATION PER CITY OF OTTAWA STD.535
---	INTERIM GRADING TREE LINE
---	PROP. TOP OF SLOPE
---	PROP. SWALE
---	PROP. TERRACING (MAX 3:1)
---	PROP. BOTTOM OF TERRACING



PROPOSED SEWER TABLE

STRUCTURE	D/S	TYPE	INVERT ELEV (m)	NOMINAL DIA. (mm)	LENGT H (m)	Type	Class	Slope (%)
BLDG	STMH 106	STM	89.48	89.35	375	3.79	PVC	SDR 28
BLDG	ELBOW	STM	89.65	89.59	150	3.21	PVC	SDR 28
ELBOW	STMH 106	STM	89.59	89.57	150	0.79	PVC	SDR 28
STMH 106	STMH 107	STM	89.29	89.01	375	9.50	PVC	SDR 28
STMH 107	MUNI. STORM	STM	86.93	86.40	525	21.32	CONC.	65-D
STMH 105	STMH 107	STM	87.53	87.10	600	86.79	CONC.	65-D
STMH 104	STMH 105	STM	87.78	87.59	600	37.93	CONC.	65-D
STMH 103	STMH 104	STM	87.98	87.81	600	55.67	CONC.	65-D
STMH 102	STMH 103	STM	88.15	88.04	525	37.79	CONC.	65-D
STMH 101	STMH 102	STM	88.48	88.24	525	88.53	CONC.	65-D
CB 301	CB 302	STM	88.98	88.86	300	33.09	PVC	SDR 35
CB 302	STMH 101	STM	88.63	88.68	300	30.57	PVC	SDR 35
DCB 303	STM	STM	88.91	88.88	300	2.72	PVC	SDR 35
CB 304	STM	STM	88.66	88.53	300	12.13	PVC	SDR 35
CB 305	STM	STM	88.59	88.48	300	11.83	PVC	SDR 35
DCB 306	STMH 104	STM	88.63	88.38	300	24.98	PVC	SDR 35
CB 307	STM	STM	88.33	88.30	300	3.65	PVC	SDR 35
DCB 308	STMH 101	STM	89.30	89.00	300	29.77	PVC	SDR 35
DCB 309	STMH 102	STM	89.08	89.05	300	2.43	PVC	SDR 35
BLDG	SANMH 201	SAN	89.15	89.07	250	3.80	PVC	SDR 28
SANMH 201	SANMH 202	SAN	89.04	88.85	250	9.74	PVC	SDR 35
SANMH 202	MUNI. SAN	SAN	88.82	88.53	250	14.46	PVC	SDR 35

STRUCTURE TABLE

STRUCTURE NUMBER	TYPE	LID ELEV (m)	INVERT IN (m) and DIA (mm)	INVERT OUT (m) and DIA (mm)	SIZE	REFERENCE	FRAME	COVER
STMH 101	STM	91.81	88.68 (300) 89.00 (300)	88.48 (525)	1200mmØ	OPSD 701.010	S25	S24.1
STMH 102	STM	91.82	88.21 (525) 89.05 (300)	88.15 (525)	1500mmØ	OPSD 701.011	S25	S24.1
STMH 103	STM	91.58	88.04 (525) 87.81 (600)	87.98 (600)	1500mmØ	OPSD 701.011	S25	S24.1
STMH 104	STM	91.54	87.81 (600) 88.38 (300)	87.78 (600)	1500mmØ	OPSD 701.011	S25	S24.1
STMH 105	STM	91.55	87.59 (600) 87.53 (600)	87.53 (600)	1500mmØ	OPSD 701.011	S25	S24.1
STMH 106	STM	91.97	89.35 (375) 89.57 (150)	89.29 (375)	1200mmØ	OPSD 701.010	S25	S24.1
STMH 107	STM	91.44	89.01 (375) 87.10 (600)	86.93 (525)	1500mmØ	OPSD 701.011	S25	S24.1
CB 301	STM	91.66		88.98 (300)	600mm	OPSD 705.010	OPSD 400.020	S19.1
CB 302	STM	91.52	88.86 (300)	88.83 (300)	600mm	OPSD 705.010	OPSD 400.020	S19.1
DCB 303	STM	91.17		88.91 (300)	600X1450m	OPSD 705.020	OPSD 400.020 (x2)	S19.1 (x2)
CB 304	STM	91.25		88.66 (300)	600mm	OPSD 705.010	OPSD 400.020	S19.1
CB 305	STM	91.25		88.59 (300)	600mm	OPSD 705.010	OPSD 400.020	S19.1
DCB 306	STM	91.05		88.63 (300)	600X1450m	OPSD 705.020	OPSD 400.020 (x2)	S19.1 (x2)
CB 307	STM	91.30		88.33 (300)	600mm	OPSD 705.010	OPSD 400.020	S19.1
DCB 308	STM	91.17		89.30 (300)	600X1450m	OPSD 705.020	OPSD 400.020 (x2)	S19.1 (x2)
DCB 309	STM	91.53		89.08 (300)	600X1450m	OPSD 705.020	OPSD 400.020 (x2)	S19.1 (x2)
SANMH 201	SAN	91.96	89.07 (250)	89.04 (250)	1200mmØ	OPSD 701.010	S25	S24
SANMH 202	SAN	91.38	88.85 (250)	88.82 (250)	1200mmØ	OPSD 701.010	S25	S24

D1
C100
SITE SERVICING
SCALE 1:150

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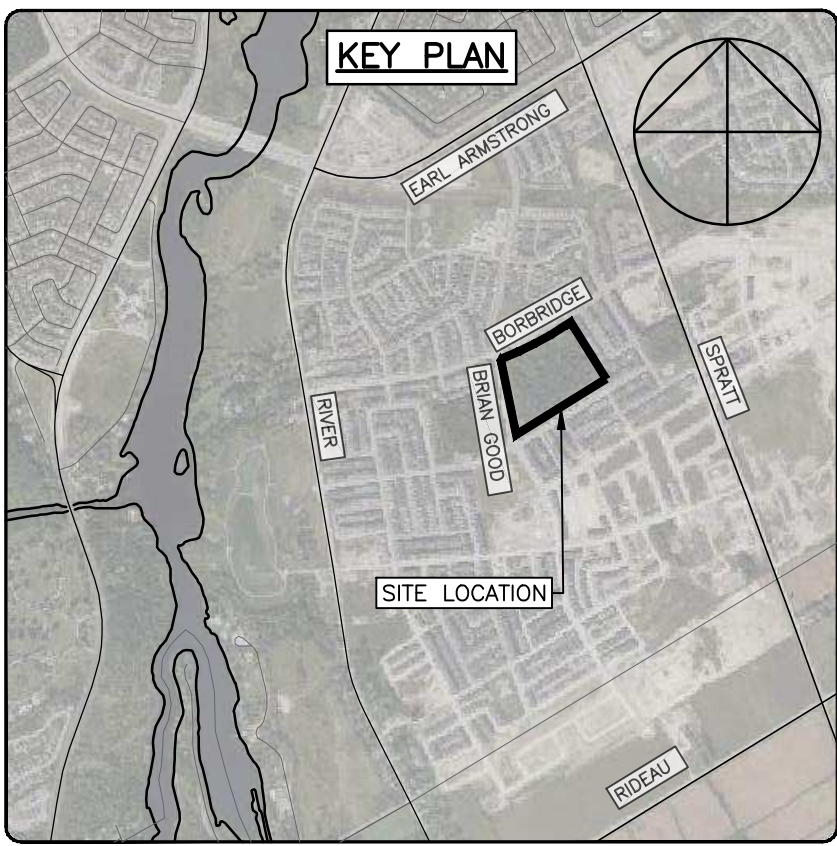
project title
**New High School -
Riverside South**

Manitoba Ontario

drawing title
SITE SERVICING PLAN

date	MARCH 14, 2025	job no.	
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approved	AKJ		
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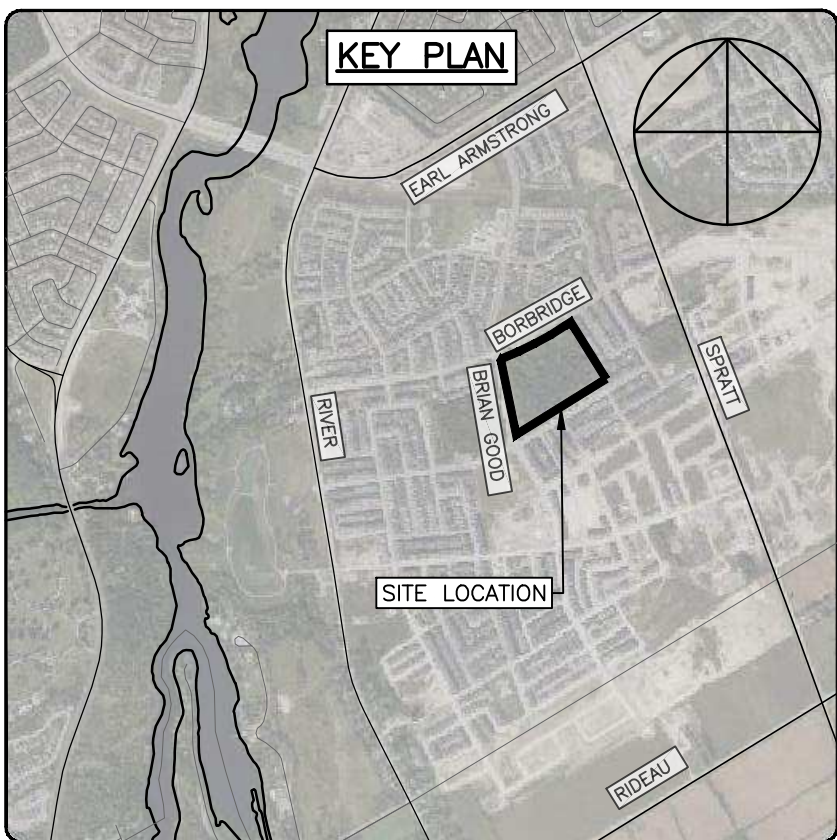
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LEGEND

- PROPERTY LINE
- ABUTTING PL
- EX. C.L. ROAD
- EX. FEATURE
- EX. CURB
- EX. ELEV
- SITE BENCHMARK
- EX. WATER VALVE
- EX. VALVE CHAMBER
- EX. CATCHBASIN
- EX. SIDEWALK (CURB INLET) CATCHBASIN
- EX. HYDRANT
- EX. STORM MANHOLE
- EX. SANITARY MANHOLE
- EX. TREE LINE
- EX. FENCE
- PROP. GRADE (%)
- PROP. ELEVATION
- PROP. ELEVATION (TOP OF CURB)
- PROP. ELEVATION (BOTTOM OF CURB)
- PROP. ELEVATION (MATCH EX. ELEV.)
- PROP. FENCE
- PROP. TOP OF SLOPE
- PROP. SWALE
- PROP. TERRACING (MAX 3:1)
- PROP. BOTTOM OF TERRACING
- PROP. CURB
- PROP. DEPRESSED CURB
- PROP. GRASS
- PROP. GRAVEL
- PROP. CONCRETE
- PROP. SAND
- PROP. ROOF
- PROP. HEAVY DUTY ASPHALT
- PROP. LIGHT DUTY ASPHALT
- PROP. STORM MANHOLE
- PROP. DOUBLE CATCHBASIN
- PROP. CATCHBASIN
- INTERIM TREE REMOVAL LINE CUT GRADING TO MATCH EX. (MAX 3:1)
- INTERIM TREE REMOVAL LINE FILL GRADING TO MATCH EX. (MAX 3:1)



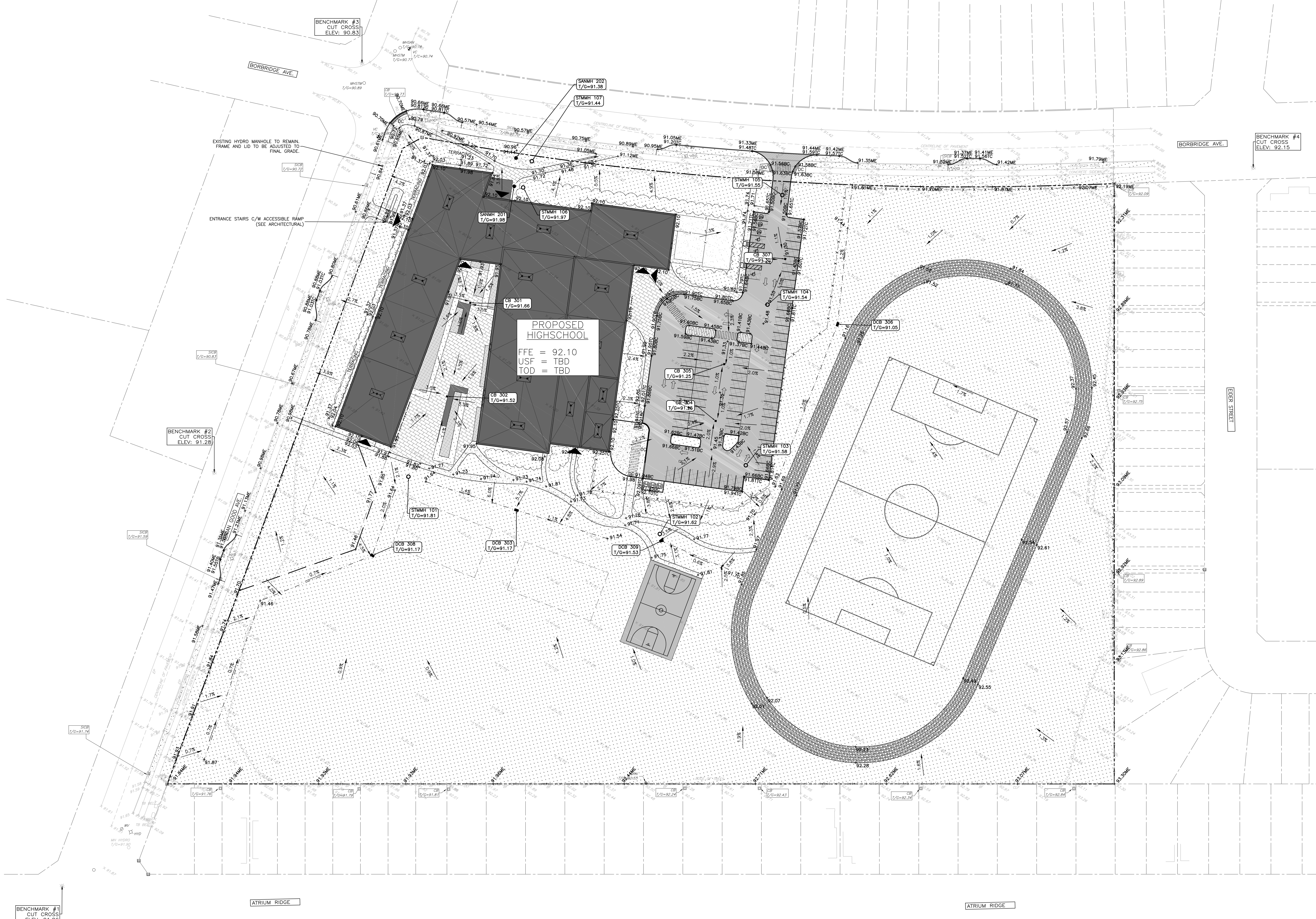


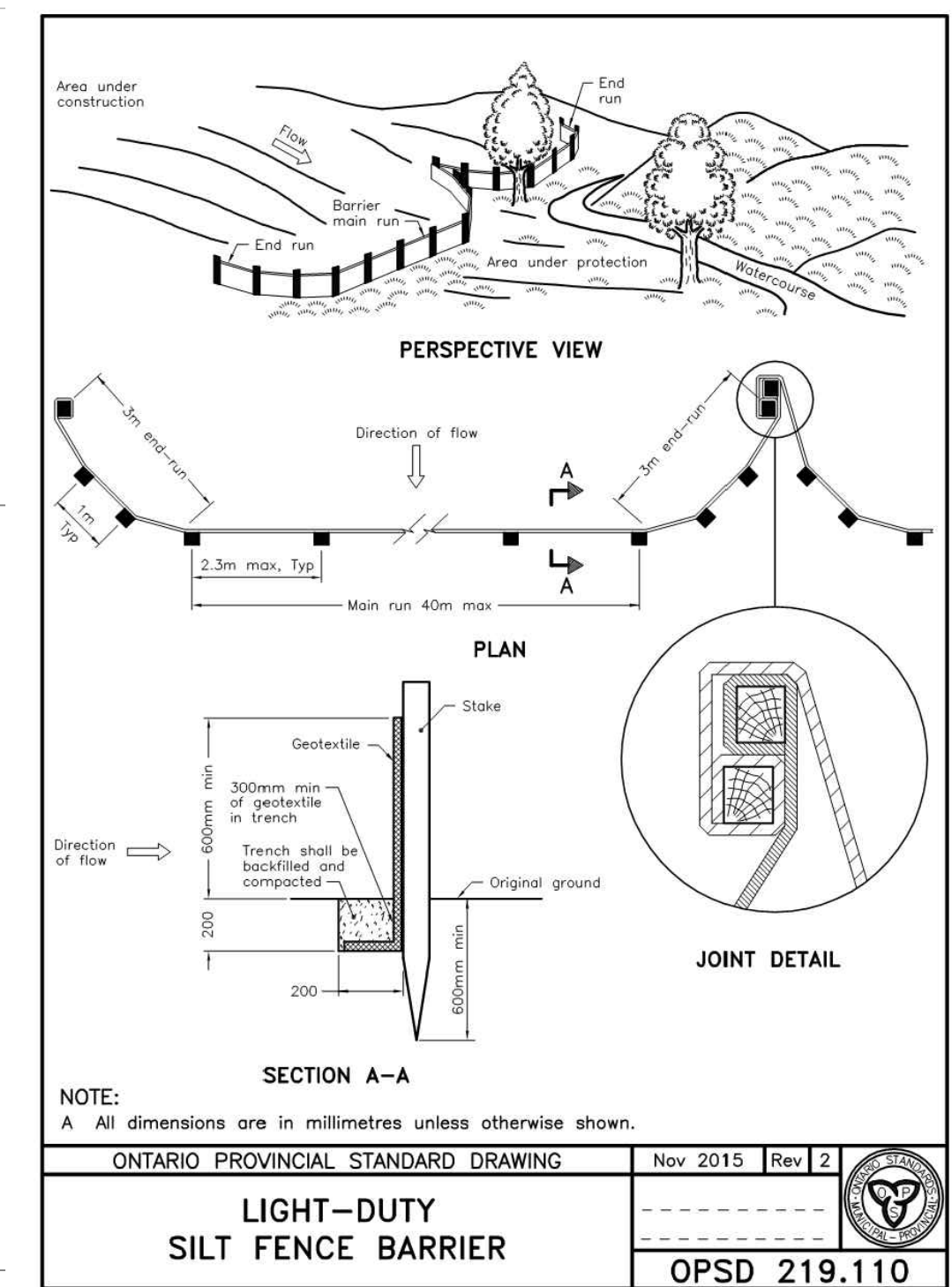
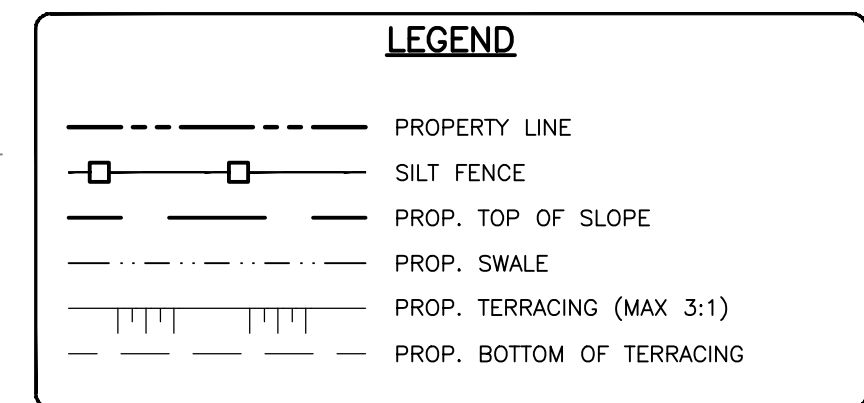
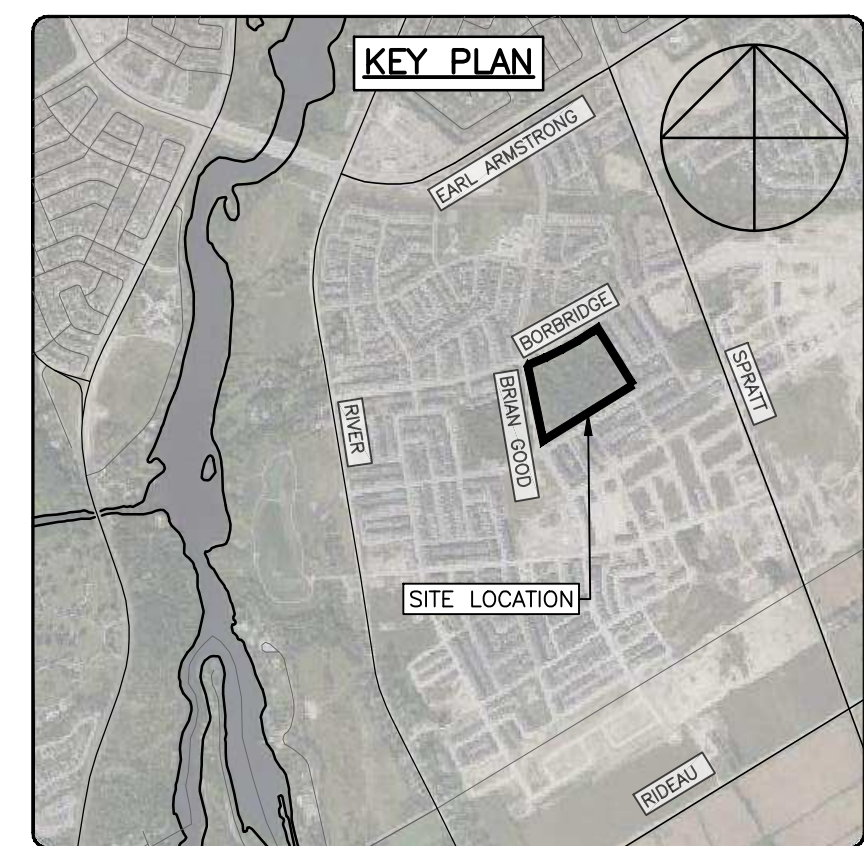
LEGEND

- PROPERTY LINE
- ABUTTING PL
- EX. C.L. ROAD
- EX. FEATURE
- EX. CURB
- EX. ELEV
- SITE BENCHMARK
- EX. WATER VALVE
- EX. VALVE CHAMBER
- EX. CATCHBASIN
- EX. SIDEWALK (CURB INLET) CATCHBASIN
- EX. HYDRANT
- EX. STORM MANHOLE
- EX. SANITARY MANHOLE
- EX. TREE LINE
- EX. FENCE

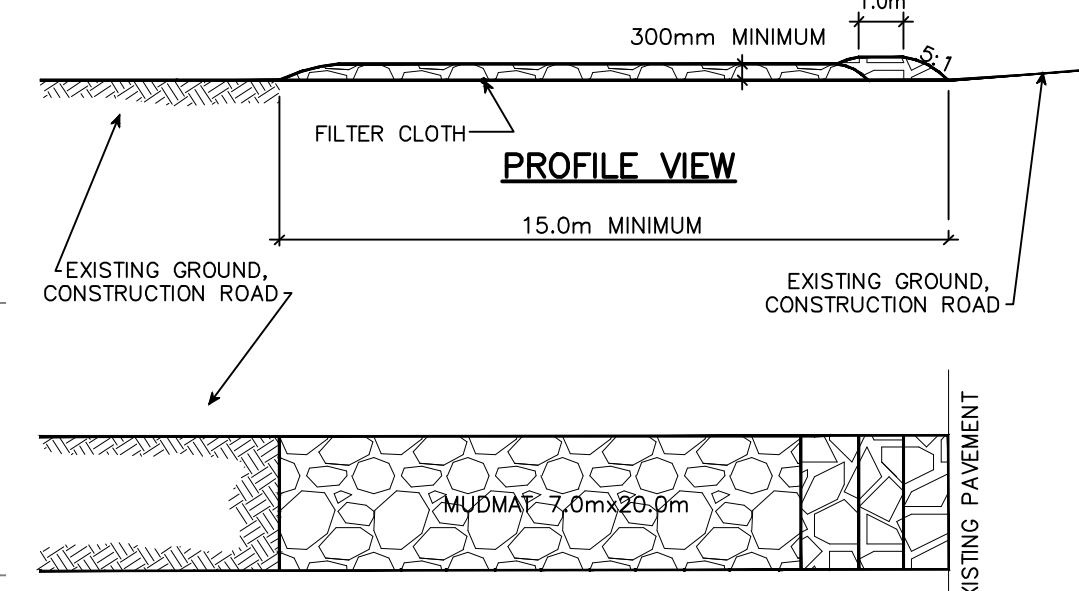
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- PROP. GRADE (%)
- PROP. ELEVATION
- PROP. ELEVATION (TOP OF CURB)
- PROP. ELEVATION (BOTTOM OF CURB)
- PROP. ELEVATION (MATCH EX. ELEV.)
- PROP. FENCE
- PROP. TOP OF SLOPE
- PROP. SWALE
- PROP. TERRACING (MAX 3:1)
- PROP. BOTTOM OF TERRACING
- PROP. CURB
- PROP. DEPRESSIONED CURB
- PROP. GRASS
- PROP. GRAVEL
- PROP. CONCRETE
- PROP. SAND
- PROP. ROOF
- PROP. HEAVY DUTY ASPHALT
- PROP. LIGHT DUTY ASPHALT
- PROP. STORM MANHOLE
- PROP. DOUBLE CATCHBASIN
- PROP. CATCHBASIN





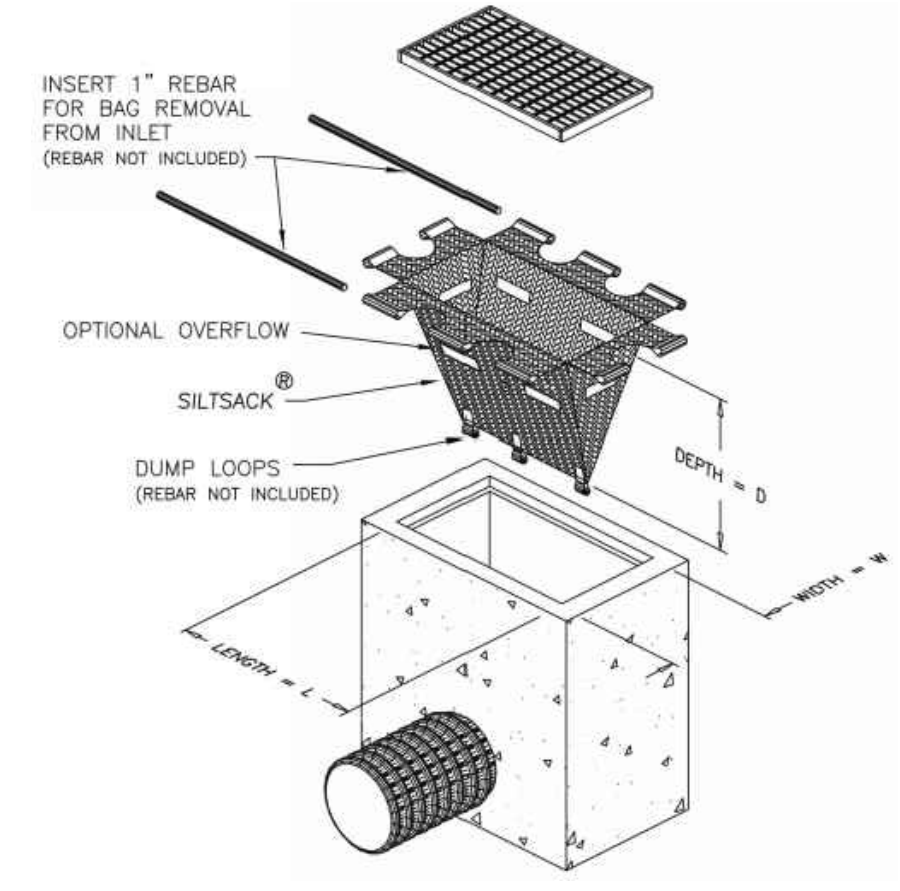
- NOTES:
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO WOOD POSTS WITH WIRE TIES OR STAPLES.
 2. POSTS TO BE SPACED AT 2.3 METRES CENTRE TO CENTRE.
 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY A MINIMUM OF 500mm.
 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
 5. WOOD POSTS TO BE HARDWOOD TYPE (50mm x 50mm).
 6. GEOTEXTILE TO BE EMBEDDED 200mm INTO GROUND.
 7. GEOTEXTILE TO CONFORM TO OPSS 805 STANDARDS.
 8. SILT FENCE MUST BE INSTALLED BEFORE COMMENCEMENT OF CONSTRUCTION AND IN ACCORDANCE WITH DETAIL. SILT FENCE CAN BE REMOVED AFTER LANDSCAPING IS COMPLETE.
 9. SEDIMENTS MUST BE CLEARED AWAY WHEN THEY REACH HALF THE HEIGHT OF THE FENCE.



- NOTES:
1. STONE - USE CLEAR CRUSHED 100mm STONE.
 2. LENGTH - AS REQUIRED BUT NOT LESS THAN 15.0m.
 3. THICKNESS - NOT LESS THAN 300mm.
 4. WIDTH - 7.0m MINIMUM, NOT LESS THAN THE WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
 5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
 6. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRED PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED OR TRACKED ONTO THE PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
 7. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

MUD MAT DETAIL

N.T.S.



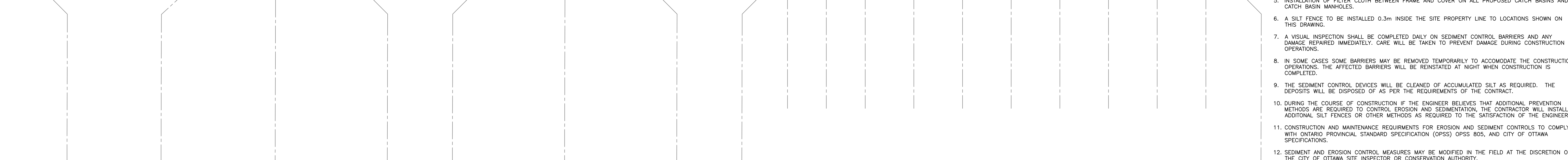
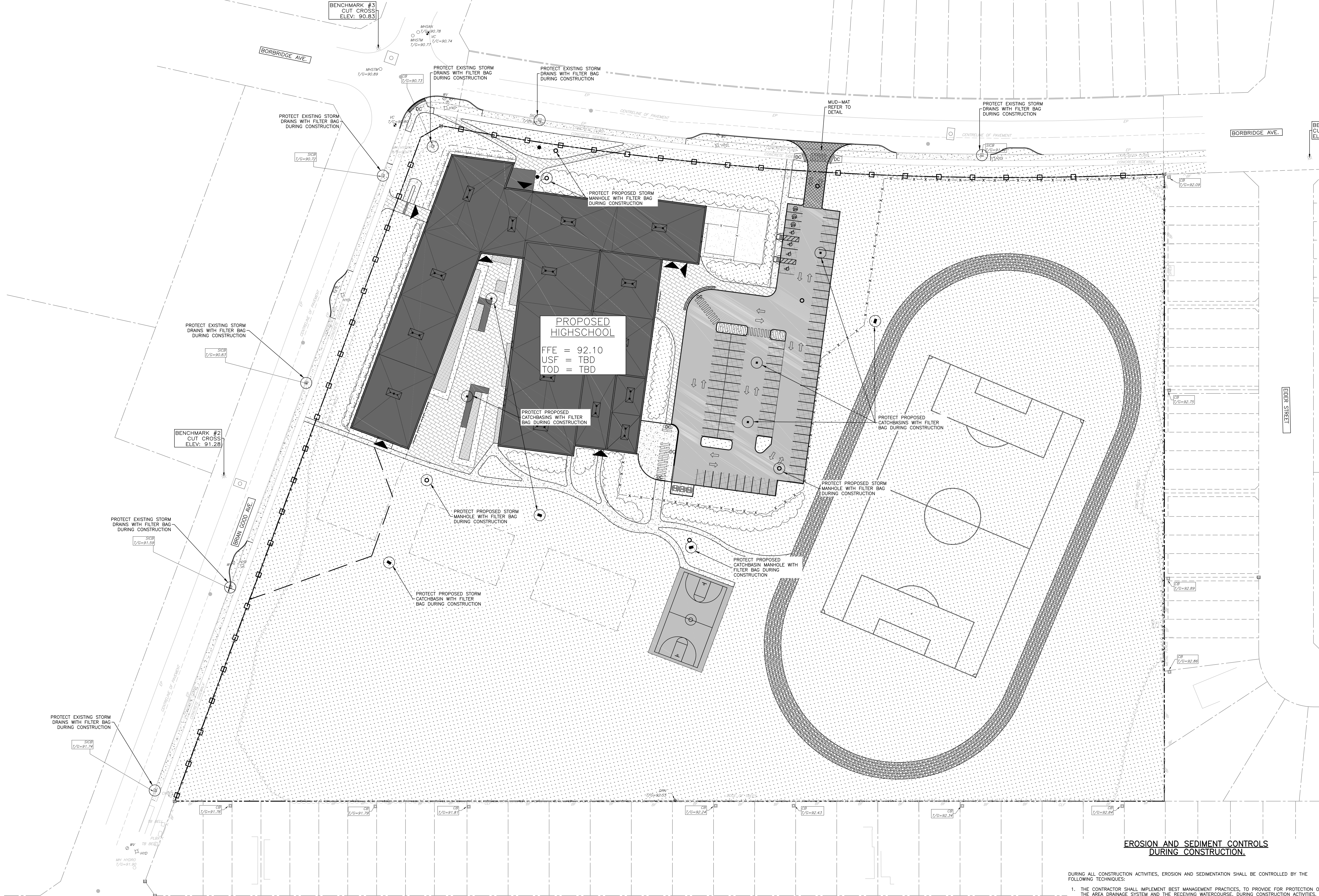
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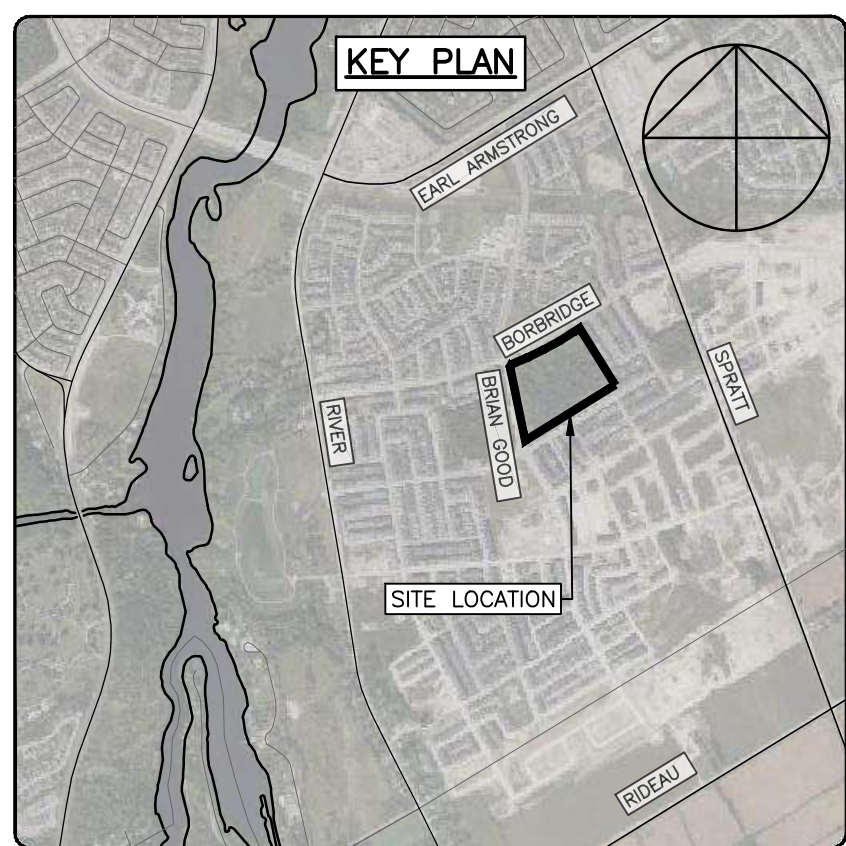
N.T.S.

EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION.

DURING ALL CONSTRUCTION ACTIVITIES, EROSION AND SEDIMENTATION SHALL BE CONTROLLED BY THE FOLLOWING TECHNIQUES:

1. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR 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. CONTRACTOR IS RESPONSIBLE TO KEEP THE ROADS FREE AND CLEAN FROM MUD OR DEBRIS.
2. LIMITING THE EXTENT OF EXPOSED SOILS AT ANY GIVEN TIME.
3. REVEGETATION OF EXPOSED AREAS AS SOON AS POSSIBLE.
4. MINIMIZATION OF AREA TO BE CLEARED AND DISRUPTION TO ADJACENT AREAS.
5. INSTALLATION OF FILTER CLOTH BETWEEN FRAME AND COVER ON ALL PROPOSED CATCH BASINS AND CATCH BASIN MANHOLES.
6. A SILT FENCE TO BE INSTALLED 0.3m INSIDE THE SITE PROPERTY LINE TO LOCATIONS SHOWN ON THIS DRAWING.
7. A VISUAL INSPECTION SHALL BE COMPLETED DAILY ON SEDIMENT CONTROL BARRIERS AND ANY DAMAGE REPAIRED IMMEDIATELY. CARE WILL BE TAKEN TO PREVENT DAMAGE DURING CONSTRUCTION OPERATIONS.
8. IN SOME CASES SOME BARRIERS MAY BE REMOVED TEMPORARILY TO ACCOMMODATE THE CONSTRUCTION OPERATIONS. THE AFFECTED BARRIERS WILL BE REINSTATED AT NIGHT WHEN CONSTRUCTION IS COMPLETED.
9. THE SEDIMENT CONTROL DEVICES WILL BE CLEANED OF ACCUMULATED SILT AS REQUIRED. THE DEPOSITS WILL BE DISPOSED OF AS PER THE REQUIREMENTS OF THE CONTRACT.
10. DURING THE COURSE OF CONSTRUCTION IF THE ENGINEER BELIEVES THAT ADDITIONAL PREVENTION METHODS ARE REQUIRED TO CONTROL EROSION AND SEDIMENTATION, THE CONTRACTOR WILL INSTALL ADDITIONAL SILT FENCES OR OTHER METHODS AS REQUIRED TO THE SATISFACTION OF THE ENGINEER.
11. CONSTRUCTION AND MAINTENANCE REQUIREMENTS FOR EROSION AND SEDIMENT CONTROLS TO COMPLY WITH ONTARIO PROVINCIAL STANDARD SPECIFICATION (OPSS) OPSS 805, AND CITY OF OTTAWA SPECIFICATIONS.
12. SEDIMENT AND EROSION CONTROL MEASURES MAY BE MODIFIED IN THE FIELD AT THE DISCRETION OF THE CITY OF OTTAWA SITE INSPECTOR OR CONSERVATION AUTHORITY.





LEGEND	
	PROPERTY LINE
	SILT FENCE
	ONSITE OVERLAND FLOW ROUTE
	OFFSITE OVERLAND FLOW ROUTE
	AREA NO. AREA IN HECTARES RUNOFF COEFFICIENT
	CATCHMENT AREA
	PROPOSED ROOF DRAIN
	5-YEAR ROOF PONDING
	100-YEAR ROOF PONDING
	EX. MUN. STORM SEWER
	EX. STORM MANHOLE
	EX. CATCH-BASIN
	EX. SIDEWALK (CURB INLET) CATCH-BASIN
	PROP. STORM PIPE
	PROP. STORM MANHOLE
	PROP. DOUBLE CATCH-BASIN
	PROP. CATCH-BASIN
	PROP. GRASS
	PROP. GRAVEL
	PROP. CONCRETE
	PROP. SAND
	PROP. ROOF
	PROP. ASPHALT
	PROP. TOP OF SLOPE
	PROP. SWALE
	PROP. TERRACING (MAX 3:1)
	PROP. BOTTOM OF TERRACING



STORMWATER STORAGE AND CONTROL TABLE			
AREA NO.	CONTROL METHOD (LOCATION)	CONTROL PRODUCT	C/L OF ORIFICE ELEVATION (m) (PONDING ELEVATION)
P-1	ICD (CB 307)	90mmØ Orifice Plate	88.48 2.58 (91.46)
P-2	ICD (CB 305)	150mmØ Orifice Plate	88.74 2.70 (91.44)
P-3	ICD (CB 304)	145mmØ Orifice Plate	88.83 2.63 (91.44)
P-4	ICD (CB 306)	228mmØ Orifice Plate	88.78 2.57 (91.35)

ROOF PONDING TABLE			
AREA NO.	2-YEAR PONDING DEPTH (mm)	5-YEAR PONDING DEPTH (mm)	100-YEAR PONDING DEPTH (mm)
P-R-1	89	107	133
P-R-2	86	104	130
P-R-3	87	104	130
P-R-4	91	108	135
P-R-5	80	97	122
P-R-6	81	97	123
P-R-7	84	101	127
P-R-8	82	98	125
P-R-9	80	96	123
P-R-10	86	103	129
P-R-11	78	95	121
P-R-12	78	95	120
P-R-13	79	95	121
P-R-14	79	95	121

WEIR TYPE	NO. OF ROOF DRAINS	NO. OF WEIRS PER ROOF DRAIN	WEIR POSITION
WATTS Accutrol Adjustable Flow Control	1	2	Fully Open
WATTS Accutrol Adjustable Flow Control	1	2	Fully Open
WATTS Accutrol Adjustable Flow Control	1	2	Fully Open
WATTS Accutrol Adjustable Flow Control	1	2	Fully Open
WATTS Accutrol Adjustable Flow Control	1	2	Fully Open
WATTS Accutrol Adjustable Flow Control	1	2	Fully Open
WATTS Accutrol Adjustable Flow Control	1	2	Fully Open
WATTS Accutrol Adjustable Flow Control	1	2	Fully Open
WATTS Accutrol Adjustable Flow Control	1	2	Fully Open
WATTS Accutrol Adjustable Flow Control	3	1	Fully Open
WATTS Accutrol Adjustable Flow Control	1	2	Fully Open
WATTS Accutrol Adjustable Flow Control	1	2	Fully Open
WATTS Accutrol Adjustable Flow Control	1	2	Fully Open
WATTS Accutrol Adjustable Flow Control	1	2	Fully Open

1	2025-04-04	ISSUED FOR SITE PLAN CONTROL	AKJ
0	2025-03-14	ISSUED FOR 33% CLIENT REVIEW	AKJ
no.	date	revision / issue	by

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professional stamp

New High School - Riverside South

POST-DEVELOPMENT SITE CATCHMENTS

date	MARCH 14, 2025	job no.	OTT-24005530-A0
scale	1 : 500	drawing no.	C500
drawn	AGJ		
approved	AKJ		
plot date	4/4/2025 12:52:59 PM		

DO NOT SCALE FROM THIS DRAWING
2. CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BEFORE WORK COMMENCES
3. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWINGS: ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, LANDSCAPE