NOTES: GENERAL

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 SPECIFICATION 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, AND 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 AND REMOVALS. 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 ANNIS, O'SULLIVAN, VOLLEBEKK LTD. DATED ON MARCH 30, 2021. 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 CATCH BASIN 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 SHOWN.
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 REPORT.
19. REPORT REFERENCES
    i. DESIGN BRIEF, PREPARED BY IBI GROUP, PROJ. NO. 27970-5.2.2, JULY 14, 2017

    ii. GEOTECHNICAL INVESTIGATION, PREPARED BY PATERSON GROUP, PROJ. NO. PG3093-1, NOVEMBER 18, 2013
20. PROVIDE CCTV INSPECTION REPORT FOR ALL SEWERS AND CATCHBASIN LEADS 200mm DIAMETER AND LARGER. REPEAT CCTV INSPECTION FOLLOWING RECTIFICATION OF ANY DEFICIENCIES.

NOTES: EROSION AND SEDIMENT CONTROL

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

1. PRIOR TO START OF CONSTRUCTION:

1.1. INSTALL SILT FENCE IN LOCATION SHOWN ON DWG C07.
1.2. INSTALL FILTER FABRIC OR SILT SACK FILTERS IN ALL THE CATCHBASINS AND MANHOLES TO REMAIN DURING CONSTRUCTION WITHIN THE SITE (SEE TYPICAL DETAIL).
1.3. INSPECT MEASURES IMMEDIATELY AFTER INSTALLATION.

2. DURING CONSTRUCTION:

2.1. MINIMIZE THE EXTENT OF DISTURBED AREAS AND THE DURATION OF EXPOSURE AND IMPACTS TO EXISTING GRADING.
2.2. PERIMETER VEGETATION TO REMAIN IN PLACE UNTIL PERMANENT STORM WATER MANAGEMENT IS IN PLACE. OTHERWISE, IMMEDIATELY INSTALL SILT FENCE WHEN THE EXISTING SITE IS DISTURBED AT THE PERIMETER.
2.3. PROTECT DISTURBED AREAS FROM OVERLAND FLOW BY PROVIDING TEMPORARY SWALES TO THE SATISFACTION OF THE FIELD ENGINEER. TIE-IN TEMPORARY SWALE TO EXISTING CB'S AS REQUIRED.
2.4. PROVIDE TEMPORARY COVER SUCH AS SEEDING OR MULCHING IF DISTURBED AREA WILL NOT BE REHABILITATED WITHIN 30 DAYS.
2.5. INSPECT SILT FENCES, FILTER FABRIC FILTERS AND CATCH BASIN SUMPS WEEKLY AND WITHIN 24 HOURS AFTER A STORM EVENT. CLEAN AND REPAIR WHEN NECESSARY.
2.6. DRAWING TO BE REVIEWED AND REVISED AS REQUIRED DURING CONSTRUCTION.
2.7. EROSION CONTROL FENCING TO BE ALSO INSTALLED AROUND THE BASE OF ALL STOCKPILES.
2.8. 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 SEEDED IF THEY ARE TO REMAIN ON SITE LONG ENOUGH FOR SEEDS TO GROW (LONGER THAN 30 DAYS).
2.9. CONTROL WIND-BLOWN DUST OFF SITE BY SEEDING TOPSOIL PILES AND OTHER AREAS TEMPORARILY (PROVIDE WATERING AS REQUIRED AND TO THE SATISFACTION OF THE ENGINEER).
2.10. NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THE FIELD ENGINEER.
2.11. CITY ROADWAY AND SIDEWALK TO BE CLEANED OF ALL SEDIMENT FROM VEHICULAR TRACKING AS REQUIRED.
2.12. DURING WET CONDITIONS, TIRES OF ALL VEHICLES/EQUIPMENT LEAVING THE SITE ARE TO BE SCRAPED.
2.13. ANY MUD/MATERIAL TRACKED ONTO THE ROAD SHALL BE 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 AREAS SO AFFECTED.
2.15. 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.
2.16. 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.

NOTES: WATERMAIN

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 POLY VINYL CHLORIDE (PVC) CLASS 150 DR 18 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 STANDARD 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 & W25.4.
5. CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS AS PER CITY OF OTTAWA STANDARD W40 & W42.
6. ALL VALVES AND VALVE BOXES AND CHAMBERS, HYDRANTS, AND HYDRANT VALVES AND ASSEMBLES SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARD
7. FIRE HYDRANT LOCATION AND INSTALLATION AS PER CITY OF OTTAWA STANDARD W18 & W19. CONTRACTOR TO PROVIDE FLOW TEST AND PAINTING OF NEW HYDRANT IN ACCORDANCE WITH CITY STANDARDS.
8. IF WATER MAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.
9. REFER TO LANDSCAPE DRAWINGS FOR IRRIGATION SYSTEM REQUIREMENTS

NOTES: SANITARY SEWER AND MANHOLES

10. ALL SANITARY SEWER, SANITARY SEWER APPURTENANCES AND CONSTRUCTION METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. PROVIDE CCTV INSPECTION REPORTS FOR ALL NEW SANITARY PIPING. PROVIDE DYE TESTING FOR NEW SERVICES.
11. SANITARY SEWER PIPE SIZE 150mm DIAMETER AND GREATER TO BE PVC SDR-35 (UNLESS SPECIFIED OTHERWISE) WITH RUBBER GASKET TYPE JOINTS IN CONFORMANCE WITH CSA B-182.2,3,4.
12. SEWER BEDDING AS PER CITY OF OTTAWA DETAIL S6.
13. ALL SANITARY MANHOLES 1200mm IN DIAMETER TO BE AS PER OPSD 701.01. FRAME AND COVER TO BE AS PER CITY OF OTTAWA STANDARD S25 AND S24.
14. MAINTENANCE HOLE BENCHING AND PIPE OPENING ALTERNATIVES AS PER THE OPSD 701.021
15. ANY SANITARY SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR APPROVED BY THE ENGINEER.

NOTES: STORM SEWERS AND STRUCTURES

16. ALL STORM SEWER MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. PROVIDE CCTV INSPECTION REPORTS FOR ALL NEW STORM SEWERS, SERVICES AND CB LEADS.
17. STORM SEWERS 450mm DIAMETER AND SMALLER SHALL BE PVC SDR-35, WITH RUBBER GASKET PER CSA A-257.3.
18. STORM SEWER LARGER THAN 450mm SHALL BE REINFORCED CONCRETE CLASS 100.
19. SEWER BEDDING AS PER CITY OF OTTAWA DETAIL S6.
20. ALL STORM MANHOLES TO BE AS PER STORM STRUCTURE TABLE ON DRAWING C02.
21. 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. ADD INSULATION ABOVE EXISTING STORM SEWER BETWEEN CBMH109 AND CB114.
22. CB IN LANDSCAPE AREAS SHALL BE AS PER CITY OF OTTAWA STANDARD S29, S30 AND S31.
23. ALL CATCHBASIN LEADS TO BE MINIMUM 200mm DIAMETER AT MINIMUM 1.0% SLOPE UNLESS OTHERWISE SPECIFIED.
24. STORM CATCHBASINS AS PER OPSD 705.010 AND FRAME/COVER AS PER CITY STANDARD DRAWINGS S19. STORM CBMH'S AS INDICATED IN TABLE WITH SUMP, ADJUSTMENT SECTIONS SHALL BE AS PER OPSD 704.010.
25. INSTALLATION OF FLOW CONTROL ICD'S TO BE VERIFIED BY QUALITY VERIFICATION ENGINEER RETAINED BY CONTRACTOR.

NOTES: PARKING LOT AND WORK IN PUBLIC RIGHTS OF WAY

1. CONTRACTOR TO REINSTATE ROAD CUTS AS PER CITY OF OTTAWA DETAIL R10.
2. CONTRACTOR TO PREPARE SUBGRADE, INCLUDING PROOFROLLING, TO THE SATISFACTION OF THE GEOTECHNICAL CONSULTANT PRIOR TO THE COMMENCEMENT OF PLACEMENT OF GRANULAR B MATERIAL.
3. FILL TO BE PLACED AND COMPACTED PER THE GEOTECHNICAL REPORT REQUIREMENTS.
4. CONTRACTOR TO SUPPLY, PLACE AND COMPACT GRANULAR B MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT. CONTRACTOR TO PROVIDE CONSULTANT WITH SAMPLES OF GRANULAR B MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL CONSULTANT THAT THE MATERIAL MEETS THE GRADATION REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.
5. GRANULAR A MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL CONSULTANT OF GRANULAR B PLACEMENT.
6. CONTRACTOR TO SUPPLY, PLACE AND COMPACT GRANULAR A MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT. CONTRACTOR TO PROVIDE CONSULTANT WITH SAMPLES OF GRANULAR A MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL CONSULTANT THAT THE MATERIAL MEETS THE GRADATION REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.
7. ASPHALT MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL CONSULTANT OF GRANULAR A PLACEMENT.
8. CONTRACTOR TO SUPPLY, PLACE AND COMPACT ASPHALT MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT. CONTRACTOR TO PROVIDE CONSULTANT WITH SAMPLES OF ASPHALT MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL CONSULTANT THAT THE MATERIAL MEETS THE REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.
9. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING LINE AND GRADE IN ACCORDANCE WITH THE PLANS, AND FOR PROVIDING THE CONSULTANT WITH VERIFICATION PRIOR TO PLACEMENT.
10. 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 CONSULTANT. CONSULTANT TO DETERMINE APPROPRIATE DISPOSAL METHOD/LOCATION.
11. PAVEMENT STRUCTURE (MATERIAL TYPES AND THICKNESS) FOR HEAVY DUTY, LIGHT DUTY AND BASKETBALL COURT AREAS TO BE AS SPECIFIED IN THE GEOTECHNICAL REPORT AND SHOWN ON THE PLANS.

PAVEMENT STRUCTURE - BUS ACCESS LANES

COURSE	MATERIAL	THICKNESS
SURFACE	HL3 OR SUPERPAVE 12.5 AC	40 mm
BINDER	HL8 OR SUPERPAVE 19.0 AC	50 mm
BASECOURSE	OPSS GRANULAR 'A'	150 mm
SUBBASE	OPSS GRANULAR 'B' TYPE II	450 mm

PAVEMENT STRUCTURE - PARKING AREAS

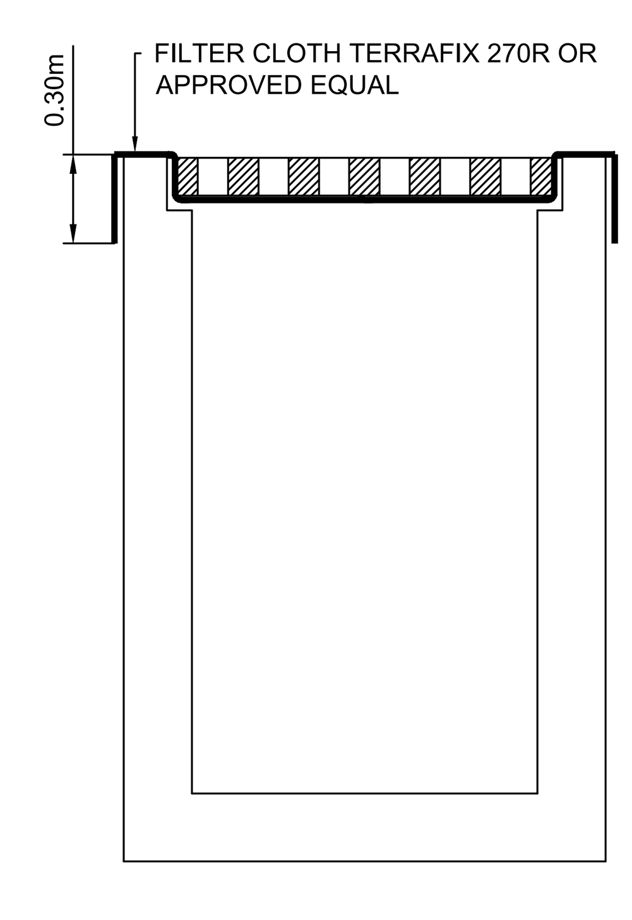
COURSE	MATERIAL	THICKNESS
SURFACE	HL3 OR SUPERPAVE 12.5 AC	50 mm
BASECOURSE	OPSS GRANULAR 'A'	150 mm
SUBBASE	OPSS GRANULAR 'B' TYPE II	300 mm

FOOTBALL/SOCCER FIELD

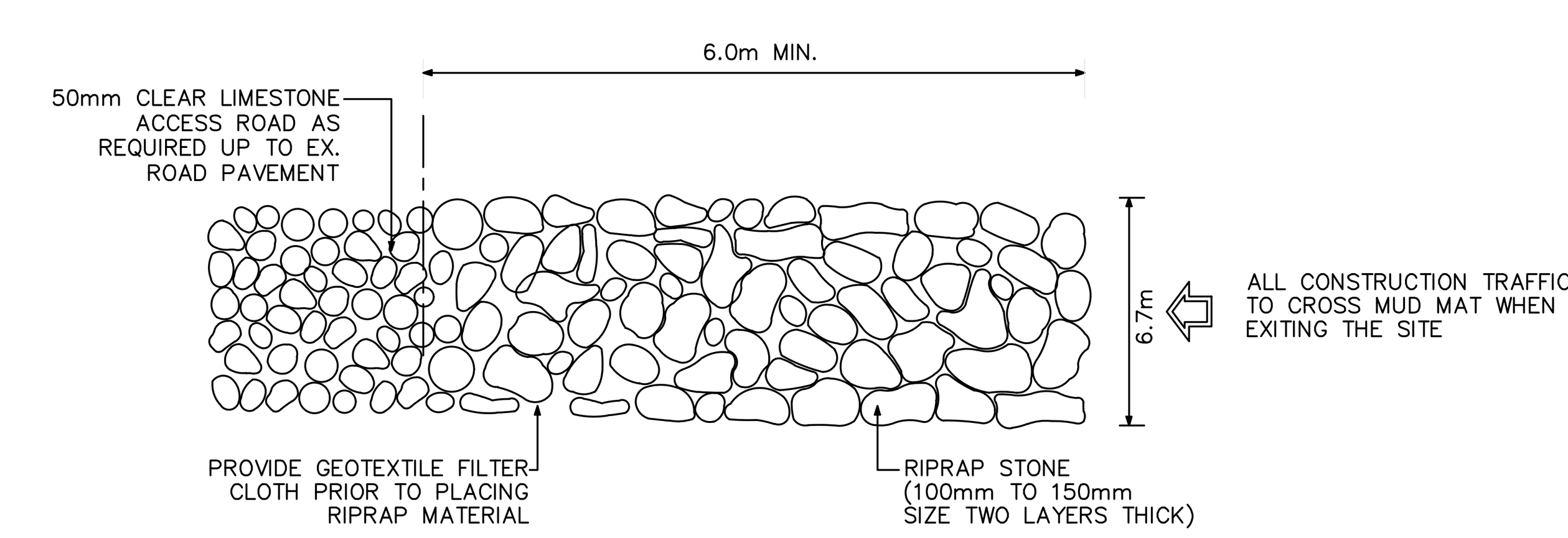
COURSE	MATERIAL	THICKNESS
SURFACE	TOPSOIL	200 mm
BASECOURSE	SAND BLANKET	150 mm
SUBBASE	OPSS GRANULAR 'B' TYPE II	300 mm

LEGEND:

EXISTING FIRE HYDRANT	EXISTING GRADE (86.43)
EXISTING V&VB	PROPOSED GRADE AT TOP OF WALL (86.10TW)
EXISTING VALVE CHAMBER	PROPOSED GRADE (86.10)
PROPOSED FIRE HYDRANT	PROPOSED TOP OF CURB (86.15TC)
PROPOSED VALVE AND VALVE BOX	PROPOSED SWALE ELEVATION (86.15s)
PROPOSED VALVE AND VALVE CHAMBER	PROPOSED SLOPE (2.0%)
PROPOSED REMOTE METER	100 YEAR PONDING LIMIT (100 YR)
PROPOSED METER	5 YEAR PONDING LIMIT (5 YR)
PROPOSED CATCHBASIN MANHOLE (STMH/CBMH)	SIAMESE CONNECTION
PROPOSE CATCHBASIN (CB)	OVERLAND MAJOR FLOW ROUTE
PROPOSE LANDSCAPE CATCHBASIN	STORM DRAINAGE BOUNDARY
EXISTING CATCHBASIN MANHOLE	ID DENOTES WATERSHED NAME A DENOTES AREA IN HECTARES C DEONOTES RUNOFF COEFFICIENT (ID CONTROLLED / A / C)
EXISTING SANITARY SEWER AND MANHOLE (SA)	SANITARY DRAINAGE BOUNDARY
PROPOSED SANITARY SEWER AND MANHOLE	ID DENOTES SANITARY DRAINAGE NAME GA DENOTES GROSS AREA IN HECTARES DA DENOTES DEVELOPED AREA IN HECTARES (ID / GA / DA)
EXISTING STORM SEWER AND MANHOLE (ST)	FINISHED FLOOR ELEVATION (FFE=106.10)
PROPOSED STORM SEWER AND MANHOLE	GRASS AREAS
PROPOSED WATERMAIN (W)	CONCRETE PAVING
PROPOSED SUBDRAIN	HEAVY DUTY ASPHALT PAVING
EXISTING WATERMAIN (W)	LIGHT DUTY ASPHALT PAVING
PROPOSED CENTERLINE OF SWALE	PLAYGROUND
PROPOSED TERRACING (3:1 MAX)	
PROPOSED CONCRETE CURB	
EXISTING BUILDING OR STRUCTURE	
LIMIT OF CONSTRUCTION	
EXISTING CONCRETE CURB	



FILTER CLOTH CATCHBASIN OR MANHOLE SEDIMENT CONTROL DEVICE
(NTS)



MUD MAT DETAIL - PLAN VIEW
(NTS)

WSP
2011 QUEENSVIEW DR.
OTTAWA, ONTARIO
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T: 613-829-2800
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SEAL:
LICENSED PROFESSIONAL ENGINEER
D. B. YANG
100230568
2022-12-06
PROVINCE OF ONTARIO

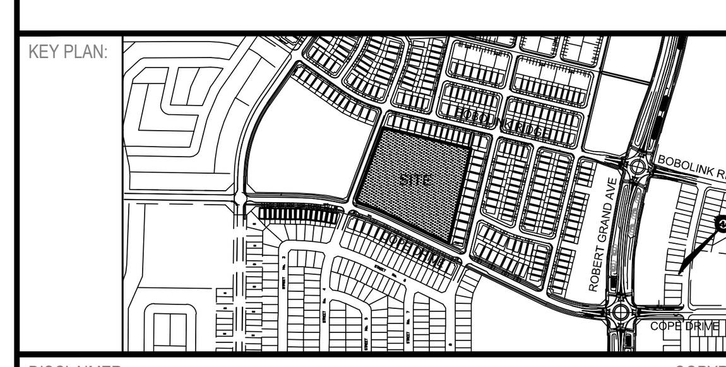
NORTH

CLIENT:
Conseil des écoles publiques de l'Est de l'Ontario

CLIENT REF. #: --

PROJECT:
ÉCOLE ÉLÉMENTAIRE
KANATA-STITTSVILLE

KEY PLAN:



ISSUED FOR - REVISION:

IS	RE	DATE	DESCRIPTION
	11	06 DEC 2022	REVISED AS PER UPDATED SITE PLAN
	10	26 SEP 2022	ISSUED FOR CONSTRUCTION
	9	14 SEP 2022	REVISED AS PER REVISED SITE PLAN
	8	15 JUL 2022	REVISED AS PER CITY COMMENTS
	7	06 APR 2022	ISSUED FOR SPA
	6	21 MAR 2022	ISSUED FOR BID AND PERMIT
	5	14 JAN 2022	ISSUED FOR 90% CD REVIEW
	4	19 NOV 2021	ISSUED FOR 85% CD REVIEW
	3	24 SEP 2021	ISSUED FOR 60% CD REIVEW
	2	27 AUG 2021	RE-ISSUE FOR 30% CD REVIEW
	1	04 AUG 2021	30% CD REVIEW

PROJECT NO: 219-00014-00
DATE: DECEMBER 2022
ORIGINAL SCALE: 1:400
IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR PLOTTING SCALE.
25mm
DESIGNED BY: D.Y.
DRAWN BY: J.T.
CHECKED BY: D.Y.
DISCIPLINE: CIVIL
TITLE: NOTES AND DETAILS
SHEET NUMBER: C01
SHEET #: 1 OF 7
ISSUE: REVISED AS PER UPDATED SITE PLAN
REV #: 0
DATE OF: 2022-12-06

D07-12-22-0058

#18734

STORM STRUCTURE AND ICD DATA TABLE

STRUCTURE ID	AREA ID	SIZE	STRUCTURE	COVER	TOP OF GRATE	INVERT				DIAMTER (mm)	TYPE	HEAD (m)	FLOW (l/s)	ICD TYPE
						INLET	INLET	INLET	OUTLET					
KANATA-STITTSVILLE ECOLE ELEMENTAIRE														
CBMH101	S-102	1200mm DIA.	OPSD 701.010	S28.1	107.15			105.330	105.280	250	PVC SDR-35			
CBMH102	S-103	1200mm DIA.	OPSD 701.010	S28.1	107.15			105.150	105.100	300	PVC SDR-35			
CBMH103	S-104	1200mm DIA.	OPSD 701.010	S28.1	107.15			104.960	104.930	300	PVC SDR-35			
CBMH104	S-106	1200mm DIA.	OPSD 701.010	S28.1	107.15			105.210	105.160	250	PVC SDR-35			
CBMH105	S-107	1200mm DIA.	OPSD 701.010	S28.1	107.15			105.000	104.980	250	PVC SDR-35			
CBMH106	S-108	1200mm DIA.	OPSD 701.010	S28.1	107.15		104.830	104.880	104.750	375	PVC SDR-35			
CBMH107	S-110	1200mm DIA.	OPSD 701.010	S28.1	107.15		104.760	104.650	104.590	375	PVC SDR-35			
CBMH108	S-113	1200mm DIA.	OPSD 701.010	S28.1	107.30		104.780	104.780	104.730	300	PVC SDR-35			
CBMH109	S-114	1200mm DIA.	OPSD 701.010	S28.1	107.30			104.660	104.590	375	PVC SDR-35			
CBMH110	S-115	1200mm DIA.	OPSD 701.010	S28.1	107.40		104.540	104.540	104.460	450	CONC. CL 100-D			
CBMH111		1200mm DIA.	OPSD 701.010	S28.1	107.62			104.390	104.360	450	CONC. CL 100-D	2.80	293.48	Plug Type 290mm
CBMH112		1200mm DIA.	OPSD 701.010	S28.1	107.50		105.190	105.230	105.130	300	PVC SDR-35			
CBMH113	S-119	1200mm DIA.	OPSD 701.010	S28.1	107.15			105.050	104.980	375	PVC SDR-35			
CBMH114	S-121	1200mm DIA.	OPSD 701.010	S28.1	107.15		104.870	104.990	104.810	375	PVC SDR-35			
STMH115		1200mm DIA.	OPSD 701.010	S24.1	107.66			104.750	104.720	375	PVC SDR-35			
CBMH116		1200mm DIA.	OPSD 701.010	S28.1	107.46			104.480	104.450	375	PVC SDR-35			
CBMH117		1200mm DIA.	OPSD 701.010	S28.1	107.26			104.390	104.360	375	PVC SDR-35	2.82	201.90	Plug Type 240mm
STMH118		1800mm DIA.	OPSD 701.012	S24.1	107.39	104.310	104.160	104.240	103.710	900	CONC. CL 100-D			
CB101	S-101	600X600mm	OPSD 705.010	S19.1	107.15				105.620	200	PVC SDR-35			
CB102	S-105	600X600mm	OPSD 705.010	S19.1	107.20				105.600	200	PVC SDR-35			
CB103	S-109	600X600mm	OPSD 705.010	S19.1	107.20				104.910	200	PVC SDR-35			
CB104	S-111	600X600mm	OPSD 705.010	S19.1	107.05				105.110	250	PVC SDR-35			
CB105	S-112	600X600mm	OPSD 705.010	S19.1	107.05				105.170	250	PVC SDR-35			
DICB106	S-116	600X600mm	OPSD-400.083	S19.1	107.20				104.510	200	PVC SDR-35			
RYCB107	S-117	600X600mm	OPSD 705.010	S19.1	107.15		105.850	105.850	105.260	300	PVC SDR-35			
CB108	S-118	600X600mm	OPSD 705.010	S19.1	107.15				105.420	200	PVC SDR-35			
DICB109	S-120	600X600mm	OPSD-400.083	S19.1	107.16				105.290	200	PVC SDR-35			
DICB110	S-122	600X600mm	OPSD-400.083	S19.1	107.20				104.730	200	PVC SDR-35			
CB111	S-123	600X600mm	OPSD 705.010	S19.1	107.15				104.620	200	PVC SDR-35			
DICB112	S-124	600X600mm	OPSD-400.083	S19.1	107.15				104.500	200	PVC SDR-35			
TCB01	S-117	300mm DIA.	S30	S30	107.15			106.150	106.150	250	HDPE			
TCB02	S-117	300mm DIA.	S30	S30	107.15			106.050	106.050	250	HDPE			
TCB03	S-117	300mm DIA.	S30	S30	107.15			105.950	105.950	250	HDPE			
TCB04	S-117	300mm DIA.	S30	S30	107.15			106.050	106.050	250	HDPE			
TCB05	S-117	300mm DIA.	S30	S30	107.15			105.950	105.950	250	HDPE			

SAN STRUCTURE TABLE

STRUCTURE ID	TOP OF GRATE ELEVATION	INVERT				DESCRIPTION		
		INLET	INLET	INLET	OUTLET	SIZE	OPSD	COVER
SAMH101	107.47			103.280	103.260	1200mm DIA.	OPSD-701.010	S24

PIPE CROSSING TABLE

		Invert	Obvert			Invert	Obvert	
1	375mmØ PVC STM	104.246	104.621	0.796	Clearance Above	103.250	103.450	*EXISTING 200mmØ PVC SAN*
2	375mmØ PVC STM	104.758	105.133	0.500	Clearance Above	104.058	104.258	200mmØ W/M
3	375mmØ PVC STM	104.762	105.137	0.500	Clearance Under	104.062	104.262	200mmØ W/M

WATERMAIN SCHEDULE

STATION	DESCRIPTION	FINISHED GRADE	TOP OF WATERMAIN	AS-BUILT WATERMAIN	COVER
Dual 200mm W/M Services					
0+000	Connect to Ex. 200mm W/M WITH 200x200 Tee	107.380		104.980	2.400
0+009.1	DMA Chamber	107.680	105.280		2.400
0+016.7	Crossing 375mmØ PVC STM	107.590	104.258		3.332
0+044.0	45° Bend	107.630	105.230		2.400
0+048.8	45° Bend	107.680	105.280		2.400
0+068.7	45° Bend	107.560	105.160		2.400
0+069.9	45° Bend	107.590	105.190		2.400
0+071.0	200mm W/M Stub (School)	107.620	105.220		2.400

PONDING TABLE

AREA ID	Ponding Type	LOCATION	Top of CB ELEV. (m)	Low Point ELEV. (m)	100-YEAR			
					CB PONDING ELEV. (m)	CB PONDING DEPTH (m)	CB PONDING AREA (m^2)	PONDING VOL. (m^3)
S101	Surface	CB101	107.15	107.15	107.30	0.15	42.4	2.12
S102	Surface	CBMH101	107.15	107.15	107.30	0.15	69.84	3.49
S103	Surface	CBMH102	107.15	107.15	107.30	0.15	79.61	3.98
S104	Surface	CBMH103	107.15	107.15	107.30	0.15	139.71	6.99
S105	Surface	CB102	107.20	107.20	107.30	0.10	64.12	2.14
S106	Surface	CBMH104	107.15	107.15	107.30	0.15	166.82	8.34
S107	Surface	CBMH105	107.15	107.15	107.30	0.15	121.41	6.07
S108	Surface	CBMH106	107.15	107.15	107.30	0.15	121.51	6.08
S109	Surface	CB103	107.20	107.20	107.30	0.10	54.49	1.82
S110	Surface	CBMH107	107.15	107.15	107.30	0.15	87.59	4.38
S111	Surface	CB104	107.05	107.05	107.30	0.25	119.02	9.92
S112	Surface	CB105	107.05	107.05	107.30	0.25	195.17	16.26
S113	Surface	CBMH108	107.30	107.30	107.30	N/A		
S114	Surface	CBMH109	107.30	107.30	107.30	N/A		
S115	Surface	CBMH110	107.40	107.40	107.30	N/A		
S116	Surface	DICB106	107.20	107.20	107.30	0.10	7.7	0.26
S117	Surface	RYCB107	107.15	107.15	107.30	0.15	970.78	48.54
S118	Surface	CB108	107.15	107.15	107.30	0.15	130.72	6.54
S119	Surface	CB113	107.15	107.15	107.30	0.15	191.23	9.56
S120	Surface	DICB109	107.16	107.16	107.30	0.14	30.49	1.42
S121	Surface	CBMH114	107.15	107.15	107.30	0.15	102.55	5.13
S122	Surface	DICB110	107.20	107.20	107.30	0.10	22.52	0.75
S123	Surface	CB111	107.15	107.15	107.30	0.15	88.05	4.40
S124	Surface	DICB112	107.15	107.15	107.30	0.15	25.54	1.28

*Ponding Depth and Ponding Volume are generated by Civil 3D. Refer to grading plan for details.

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SHEET NUMBER: C02
SHEET #: 2 OF 7

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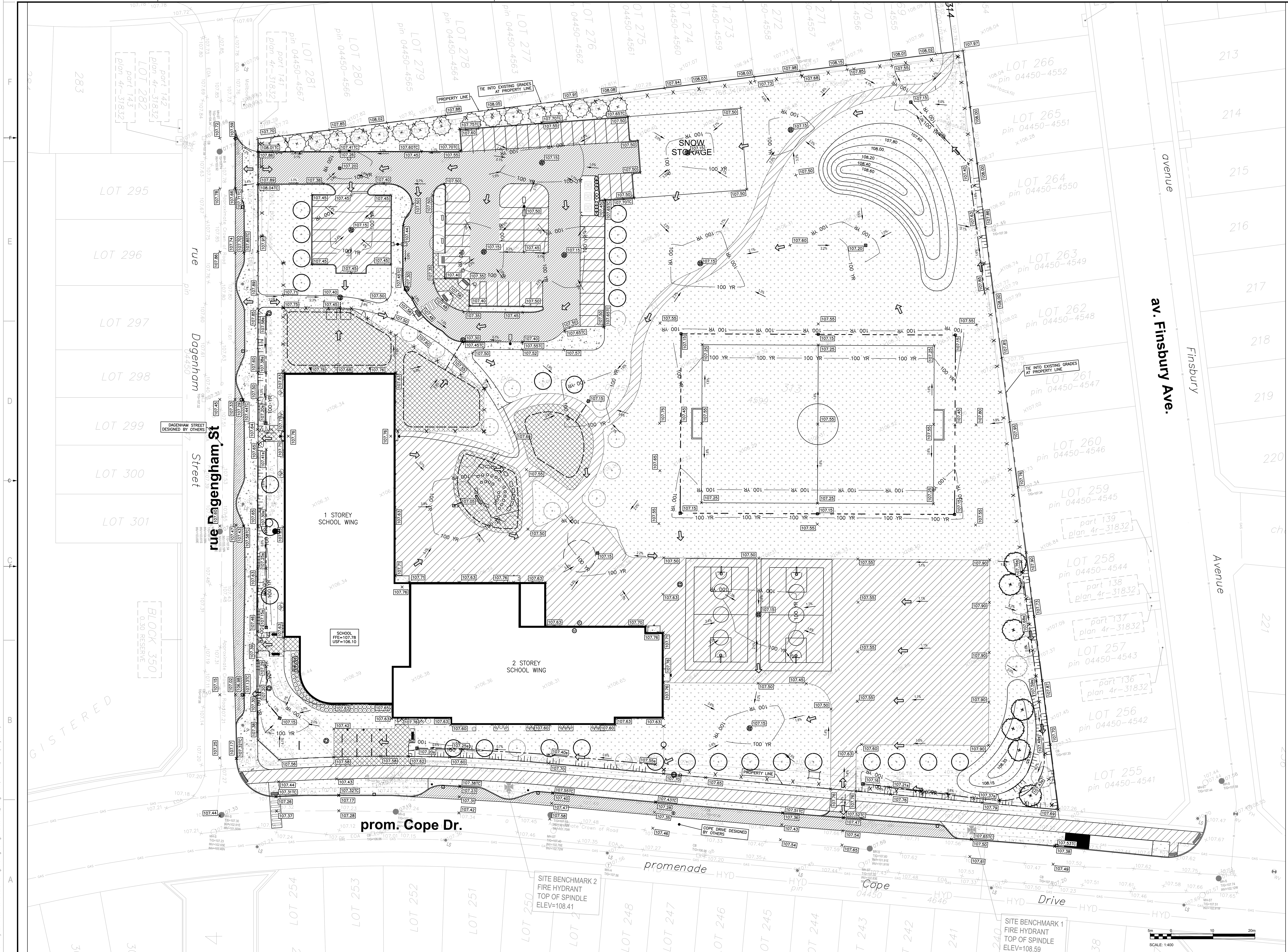

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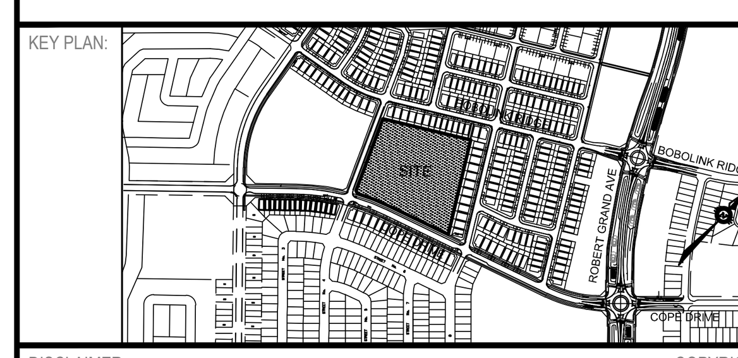

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GRADING PLAN

SHEET NUMBER: C03

SHEET #: 3 OF 7

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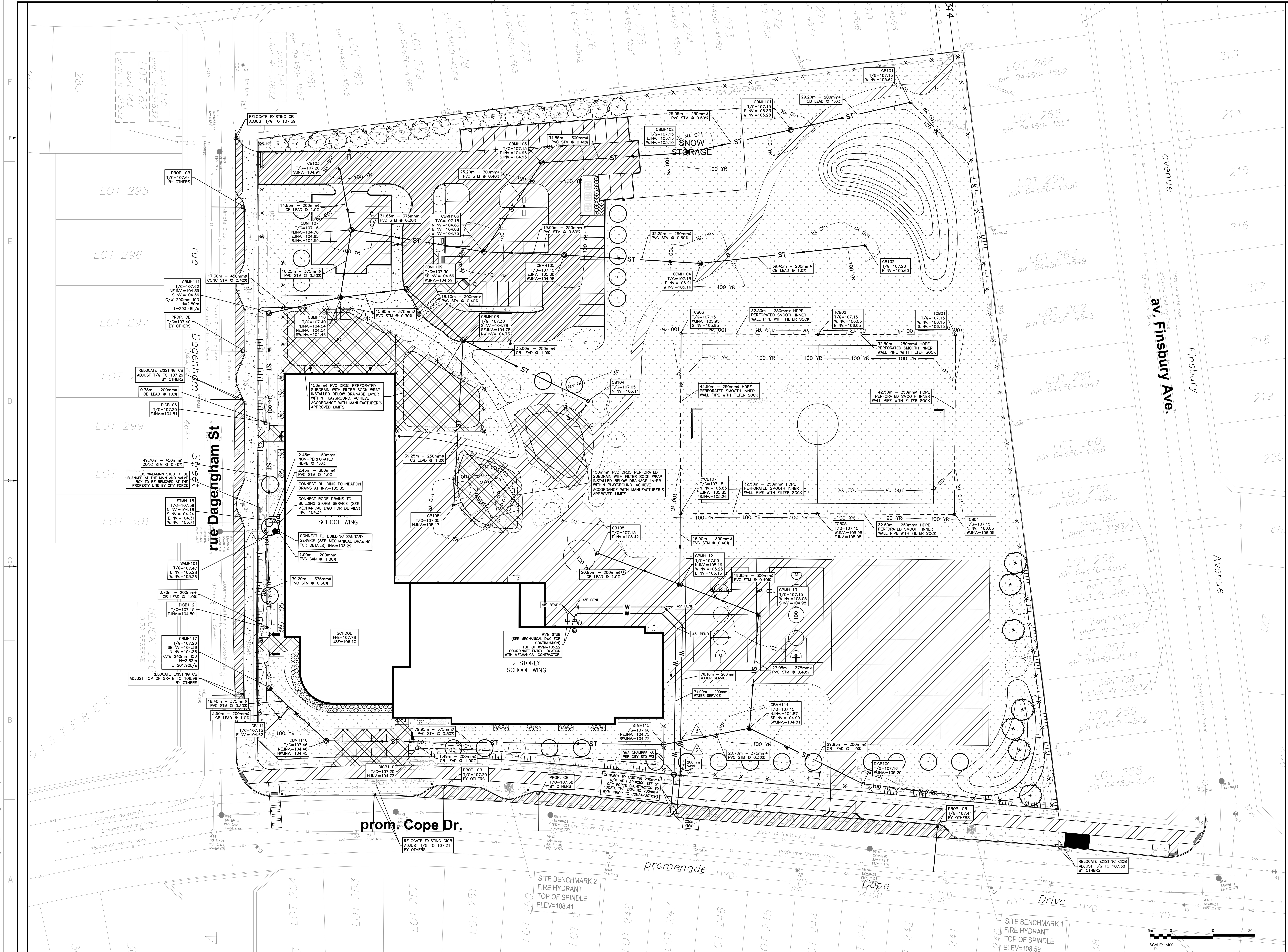

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SHEET NUMBER: C04
SHEET #: 4 OF 7

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DRAINAGE AREA PLAN

SHEET NUMBER: C05
SHEET #: 5 OF 7

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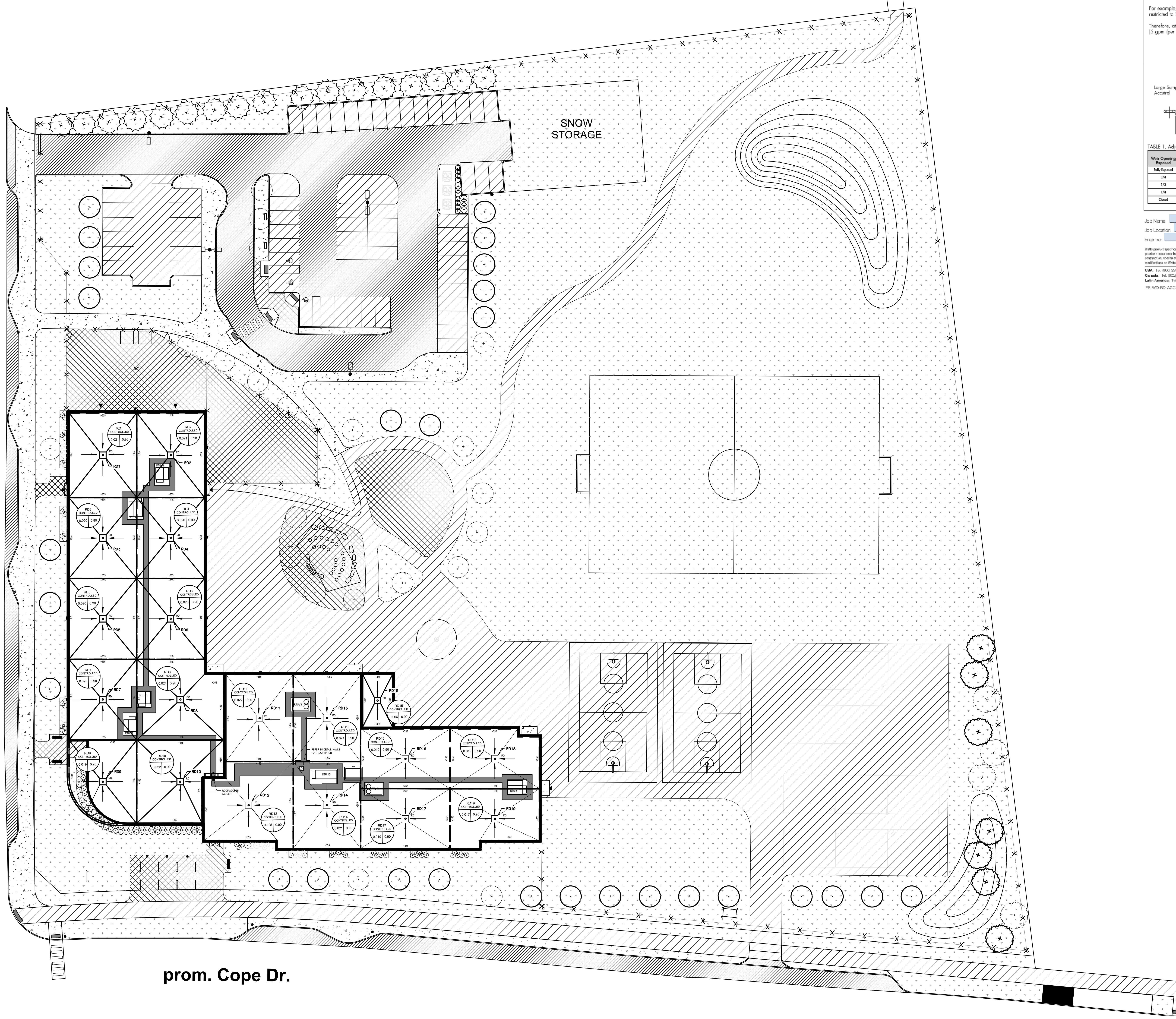


WATTS® | Adjustable Accutrol Weir
Tag: ______________
Adjustable Flow Control for Roof Drains

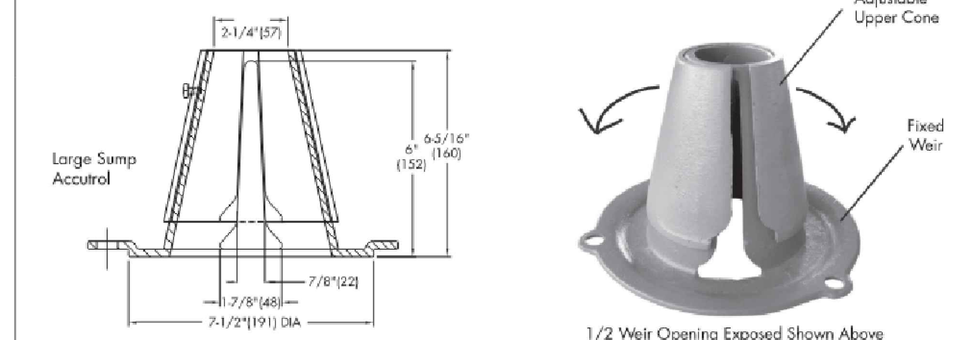
ADJUSTABLE ACCUTROL (for Large Sump Roof Drains only)

For more flexibility in controlling flow with heads deeper than 2", Watts Drainage offers the Adjustable Accutrol. The Adjustable Accutrol Weir is designed with a single parabolic opening that can be covered to restrict flow above 2" of head to less than 5 gpm per inch, up to 6" of head. To adjust the flow rate for depths over 2" of head, set the slot in the adjustable upper cone according to the flow rate required. Refer to Table 1 below.
Note: Flow rates are directly proportional to the amount of weir opening that is exposed.

EXAMPLE:

For example, if the adjustable upper cone is set to cover 1/2 of the weir opening, flow rates above 2"of head will be restricted to 2-1/2 gpm per inch of head.

Therefore, at 3"of head, the flow rate through the Accutrol Weir that has 1/2 the slot exposed will be:
[5 gpm (per inch of head) x 2 inches of head] + 2-1/2 gpm (for the third inch of head) = 12-1/2 gpm.



1/2 Weir Opening Exposed Shown Above

TABLE 1. Adjustable Accutrol Flow Rate Settings

Weir Opening Exposed	1"	2"	3"	4"	5"	6"
	Flow Rate (gallons per minute)					
Fully Exposed	5	10	15	20	25	30
3/4	5	10	13.75	17.5	21.25	25
1/2	5	10	12.5	15	17.5	20
1/4	5	10	11.25	12.5	13.75	15
Closed	5	5	5	5	5	5

Job Name ______ Contractor ______
Job Location ______ Contractor's P.O. No. ______
Engineer ______ Representative ______

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ES-WD-RD-ACCUTROLADJ-CAN 1615

Roof Drains Areas and Storage Volume Table

Roof Drainage #	Roof Area m²	Ponding Area m²	Ponding Depth m	Ponding Volume m³	Release Rate L/s
RD1	206.56	154.92	0.15	7.75	1.26
RD2	206.59	154.94	0.15	7.75	1.26
RD3	197.15	147.86	0.15	7.39	1.26
RD4	197.15	147.86	0.15	7.39	1.26
RD5	197.15	147.86	0.15	7.39	1.26
RD6	197.15	147.86	0.15	7.39	1.26
RD7	197.16	147.87	0.15	7.39	1.26
RD8	242.58	181.94	0.15	9.10	1.26
RD9	186.14	139.61	0.15	6.98	1.26
RD10	224.03	168.02	0.15	8.40	1.26
RD11	218.37	163.78	0.15	8.19	1.26
RD12	250.69	188.02	0.15	9.40	1.26
RD13	211.17	158.38	0.15	7.92	1.26
RD14	210.98	158.24	0.15	7.91	1.26
RD15	63.04	47.28	0.15	2.36	1.26
RD16	192.46	144.35	0.15	7.22	1.26
RD17	192.23	144.17	0.15	7.21	1.26
RD18	186.26	139.70	0.15	6.98	1.26
RD19	174.85	131.14	0.15	6.56	1.26
Total	3751.7	2813.783		140.69	23.94

SCALE: 1:400

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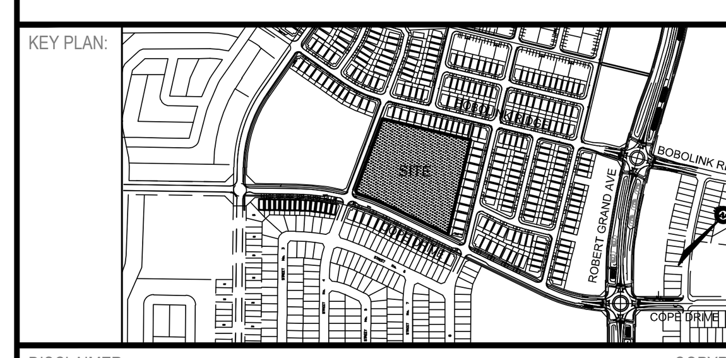

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TITLE:

ROOF DRAINAGE AREA PLAN

SHEET NUMBER: C06
SHEET # 6 OF 7

ISSUE: REVISED AS PER UPDATED SITE PLAN
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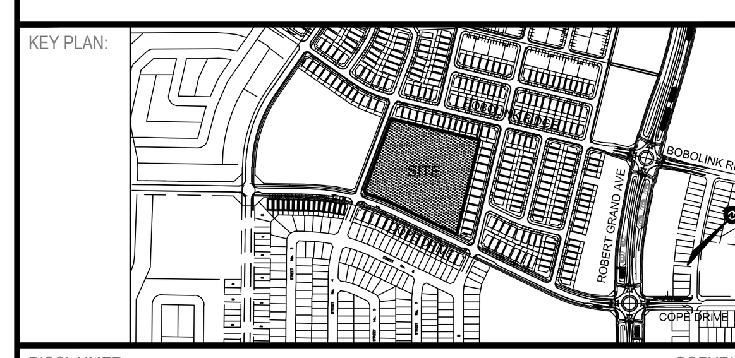

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CHECKED BY: D.Y.

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TITLE:

EROSION AND SEDIMENTATION CONTROL PLAN

SHEET NUMBER: C07

SHEET #: 7 OF 7

ISSUE: REVISED AS PER UPDATED SITE PLAN

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