

DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND

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 JULY 16, 2021. CONTRACTOR TO VERIFY IN THE FIELD PRIOR TO CONSTRUCTION OF ANY WORK AND NOTIFY THE ENGINEER OF

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

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

17. CONTRACTOR TO OBTAIN POST-CONSTRUCTION TOPOGRAPHIC SURVEY. GRADING AND SERVICING. SURVEY IS TO INCLUDE LOCATION AND INVERTS FOR

18. ABIDE BY RECOMMENDATIONS OF GEOTECHNICAL REPORT. REPORT ANY VARIATIONS IN OBSERVED CONATIONS FROM THOSE INCLUDED IN REPORT.

i. SERVICING REPORT - QUINN'S POINTE STAGE 2, PREPARED BY IBI GROUPJ.L. RICHARDS & ASSOCIATES LIMITED, PROJ. NO. 27970-5.2.2, APRIL 9, 2019 ii. GEOTECHNICAL INVESTIGATION. PREPARED BY PATERSON GROUP. PROJ. NO.

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:

INSTALL SILT FENCE IN LOCATION SHOWN ON DWG C12. INSTALL FILTER FABRIC OR SILT SACK FILTERS IN ALL THE CATCHBASINS AND MANHOLES TO REMAIN DURING CONSTRUCTION WITHIN THE SITE (SEE TYPICAL

MINIMIZE THE EXTENT OF DISTURBED AREAS AND THE DURATION OF EXPOSURE

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. 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 PROVIDE TEMPORARY COVER SUCH AS SEEDING OR MULCHING IF DISTURBED

AREA WILL NOT BE REHABILITATED WITHIN 30 DAYS. INSPECT SILT FENCES, FILTER FABRIC FILTERS AND CATCH BASIN SUMPS WEEKLY AND WITHIN 24 HOURS AFTER A STORM EVENT. CLEAN AND REPAIR WHEN

DRAWING TO BE REVIEWED AND REVISED AS REQUIRED DURING CONSTRUCTION. EROSION CONTROL FENCING TO BE ALSO INSTALLED AROUND THE BASE OF ALL

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

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 FROSION 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 NOTES: STORM SEWERS AND STRUCTURES 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.

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 18. STORM SEWER LARGER THAN 450mm SHALL BE REINFORCED CONCRETE CLASS 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,

4. CONCRETE THRUST BLOCKS AND MECHANICAL RESTRAINTS ARE TO BE 21. ANY NEW OR EXISTING STORM SEWER WITH LESS THAN 2.0m COVER REQUIRES 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 22. CB IN LANDSCAPE AREAS SHALL BE AS PER CITY OF OTTAWA STANDARD S29, OTTAWA STANDARD W40 & W42.

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

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

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

ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT

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

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

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.

PAVEMEN	PAVEMENT STRUCTURE - BUS ACCESS LANES						
COURSE	COURSE MATERIAL						
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	400 mm					

PAVEMENT STRUCTURE - PARKING AREAS									
COURSE	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	BASECOURSE SAND BLANKET					
SUBBASE	OPSS GRANULAR 'B' TYPE II	300 mm				

15. ANY SANITARY SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR APPROVED BY THE

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.

3. ALL WATERMAIN TO BE INSTALLED AT MINIMUM COVER OF 2.4m BELOW 17. STORM SEWERS 450mm DIAMETER AND SMALLER SHALL BE PVC SDR-35, WITH RUBBER GASKET PER CSA A-257.3.

19. SEWER BEDDING AS PER CITY OF OTTAWA DETAIL S6.

THERMAL INSULATION SHALL BE PROVIDED AS PER CITY OF OTTAWA 20. ALL STORM MANHOLES TO BE AS PER STORM STRUCTURE TABLE ON DRAWING

THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR APPROVED BY THE ENGINEER. ADD INSULATION ABOVE EXISTING STORM SEWER BETWEEN CBMH109 AND CB114.

6. ALL VALVES AND VALVE BOXES AND CHAMBERS, HYDRANTS, AND HYDRANT 23. ALL CATCHBASIN LEADS TO BE MINIMUM 200mm DIAMETER AT MINIMUM 1.0% SLOPE UNLESS OTHERWISE SPECIFIED.

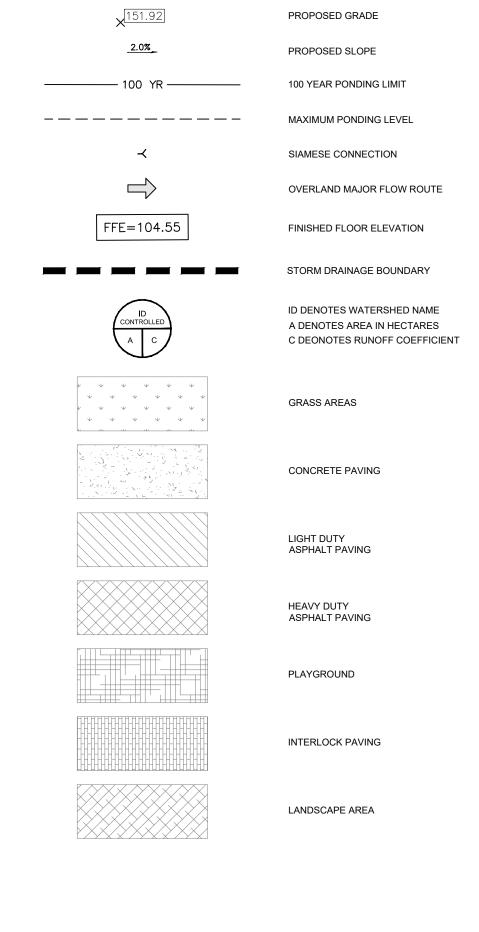
> 24. STORM CATCHBASINS AS PER OPSD 705.010 AND FRAME/COVER AS PER CITY STANDARD DRAWINGS S19. STORM CBMH'S AS INDICATED IN TABLE WITH SUMP, ADJUSTMENT SECTIONS SHALL BE AS PER OPSD 704.010.

25. BACKWATER VALVES FOR BUILDING SERVICES ARE TO BE PROVIDED AS PER CITY OF OTTAWA STANDARD S14 FOR STORM AND S14.1 FOR SANITARY.

26. INSTALLATION OF FLOW CONTROL ICD'S TO BE VERIFIED BY QUALITY VERIFICATION ENGINEER RETAINED BY CONTRACTOR.

LEGEND: EXISTING FIRE HYDRANT EXISTING V&VB EXISTING VALVE CHAMBER PROPOSED FIRE HYDRANT PROPOSED VALVE AND VALVE BOX PROPOSED VALVE AND VALVE CHAMBER PROPOSED REMOTE METER PROPOSED METER PROPOSED CATCHBASIN MANHOLE PROPOSE CATCHBASIN PROPOSE LANDSCAPE CATCHBASIN EXISTING CATCHBASIN MANHOLE EXISTING SANITARY SEWER AND MANHOLE PROPOSED SANITARY SEWER AND MANHOLE EXISTING STORM SEWER AND MANHOLE PROPOSED STORM SEWER AND MANHOLE PROPOSED WATERMAIN PROPOSED SUBDRAIN EXISTING WATERMAIN ______w___ ____x___x____x____ PROPOSED FENCE PROPOSED TERRACING (3:1 MAX) PROPOSED CONCRETE CURB DEPRESSED CURB ~~~ EXISTING BUILDING OR STRUCTURE EXISTING CONCRETE CURB PROPOSED RETAINING WALL .___________ ______ PROJECT BOUNDARY

SILT FENCE FILTER CLOTH

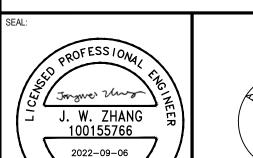


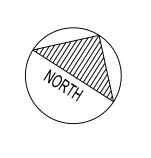


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CLIENT REF # PROJECT:

ISSUED FOR - REVISION:

MANOTICK ELEMENTARY SCHOOL



HIS DRAWING AND DESIGN IS COPYRIGHT PROTECTED WHICH SHALL NOT BE USED. REPRODUCED OR EVISED WITHOUT WRITTEN PERMISSION BY WSP. THE CONTRACTOR SHALL CHECK AND VERIFY ALL MENSIONS AND UTILITY LOCATIONS AND REPORT ALL ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK. THIS DRAWING IS NOT TO BE SCALED.

4		06 SEPT 2022	REVISED GRADING	FOR NEW ROW
3		25 JUL 2022	REVISED AS PER CI	TY COMMENTS
2		13 APR 2022	ISSUED FOR SPA	
1		21 MAR 2022	ISSUED FOR BID AN	D PERMIT
IS	RE	DATE	DESC	RIPTION
PROJE	CT NO:			DATE:
219-(00014-	01		JULY 2022
ORIGIN	IAL SCA	LE:		
1:400)			IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR
DESIG	NED BY:			PLOTTING SCALE.
JZ				
DRAWI	N BY:			

CIVIL

NOTES AND DETAILS

SHEET NUMBER: C01 1 OF 6

FILTER CLOTH TERRAFIX 270R OR

APPROVED EQUAL

FILTER CLOTH CATCHBASIN OR MANHOLE SEDIMENT CONTROL DEVICE

50mm CLEAR LIMESTONE—

REQUIRED UP TO EX.

ACCESS ROAD AS

ROAD PAVEMENT

PROVIDE GEOTEXTILE FILTER -RIPRAP STONE CLOTH PRIOR TO PLACING (100mm TO 150mn SIZE TWO LAYERS THICK) RIPRAP MATERIAL MUD MAT DETAIL - PLAN VIEW

6.0m MIN.

ALL CONSTRUCTION TRAFFIC

TO CROSS MUD MAT WHEN

ISSUED FOR SPA DATE OF: 2022-07-25

CHECKED BY:

#18739

N

	STORM STRUCTURE AND ICD DATA TABLE													
STRUCTURE	AREA ID	SIZE	STRUCTURE	COVER	TOP OF		INV	ERT		DIAMTER	TYPE	HEAD	FLOW	ICD TYPE
ID	ARLA ID	SIZE	STRUCTURE	COVER	GRATE	INLET	INLET	INLET	OUTLET	(mm)	IIFE	(m)	(I/s)	ICDTIFE
				CEPEO BAI	RRHAVEN IV	IANOTICK E	LEMENTA	RY SCHOO	L					
CBMH1	S-5	1200mm DIA.	OPSD 701.010	S28.1	103.84			101.370	101.190	375	PVC SDR-35			
CBMH2	S-7	1200mm DIA.	OPSD 701.010	S28.1	103.84			101.060	100.980	450	CONC. CL 100-D			
СВМНЗ	S-10	1200mm DIA.	OPSD 701.010	S28.1	104.20	102.000	101.450	100.830	100.750	525	CONC. CL 100-D			
CBMH4	S-11	1200mm DIA.	OPSD 701.010	S28.1	103.90			100.590	100.550	525	CONC. CL 100-D			
CBMH5	S-14	1200mm DIA.	OPSD 701.010	S28.1	103.90		101.300	100.400	100.360	525	CONC. CL 100-D	3.54	255	250 mm
STM MH1		1200mm DIA.	OPSD 701.010	S24.1	104.10			100.270	99.800	525	CONC. CL 100-D			
STM MH2		1500mm DIA.	OPSD 701.011	S24.1	104.11		101.480	99.550	99.480	600	CONC. CL 100-D			
CB1	S-3	600X600mm	OPSD 705.010	S19.1	103.75				101.470	200	PVC SDR-35			
CB2	S-4	600X600mm	OPSD 705.010	S19.1	103.95				101.670	200	PVC SDR-35			
CB3	S-6	600X600mm	OPSD 705.010	S19.1	103.84				101.490	250	PVC SDR-35			
CB4	S-8	600X600mm	OPSD 705.010	S19.1	103.90				101.400	200	PVC SDR-35			
CB5	S-9	600X600mm	OPSD 705.010	S19.1	104.20				101.900	200	PVC SDR-35			
CB6	S-13	600X600mm	OPSD-400.083	S19.1	106.35			104.700	104.000	250	PVC SDR-35			
ECB1	S-12	300mm DIA.	S30	S30	106.35				105.300	250	HDPE			
TCB2	S-13	300mm DIA.	S30	S30	106.35			104.990	104.990	250	HDPE			

SAN STRUCTURE TABLE									
			3/	AN SINUC	TORE TABLE				
STRUCTURE ID TOP OF GRATE		INVERT					DESCRIPTION		
3TRUCTURE ID	ELEVATION	INLET	INLET	INLET	OUTLET	SIZE	OPSD	COVER	
SAM MH1	103.67			101.170	99.920	1200mm DIA.	OPSD-701.010	S24	

		PIPE	E CROSS	SING TABLE
		Invert Obvert		Invert Obvert
1	150mmØ PVC WM	103.700 103.850	1.230	Clearance Under 105.080 105.330 250mmØ HDPE STM
2	150mmØ PVC WM	101.800 101.950	0.630	Clearance Above 100.640 101.170 525mmØ CONC STM
3	150mmØ PVC WM	101.200 101.350	0.970	Clearance Above 99.700 100.230 525mmØ CONC STM
4	200mmØ PVC WM	101.330 101.530	1.160	Clearance Above 99.640 100.170 525mmØ CONC STM
5	200mmØ PVC SAN	101.400 101.600	1.310	Clearance Above 99.560 100.090 525mmØ CONC STM

	WATERMAIN SCHEDULE									
STATION	DESCRIPTION	FINISHED	TOP OF	AS-BUILT	COVER					
JIAIION	DESCRIPTION	GRADE	WATERMAIN	WATERMAIN	COVER					
	150	mm W/M Loopi	ng							
0+000	45° Bend Connect to EX.WM	103.770		101.000	2.770					
0+001.81	45° Bend	103.870	101.000		2.870					
0+014.32	200 x 200 TEE	103.930	101.270		2.660					
0+014.78	200mm VB	103.940	101.270		2.670					
0+015.73	200 x 200 Tee	103.950	101.270		2.680					
0+017.41	200 x 150 Reducer	103.970	101.300		2.670					
0+022.93	45° Bend	104.030	101.400		2.630					
0+030.68	45° Bend	104.280	101.500		2.780					
0+070.96	Crossing 525mmø CONC STM	104.320	101.870		2.450					
0+089.12	150 x 150 TEE	104.710	102.250		2.460					
0+175.16	Crossing 250mmø HDPE STM	106.300	103.850		2.450					
0+180.28	150mm VB	107.280	104.330		2.950					
0+188.72	300 x 150 TEE Connect to EX. 305mmø W/M	107.640	105.120	105.120	2.520					

	From 200x200 TEE TO PROPSED BUILDING							
1+000	200 x 200 TEE	103.930	101.270	2.660				
1+005.17	200mm VB	104.280	101.710	2.570				
1+006.22	WATER CAP	104.340	101.800	2.540				

	From 200x200 TEE TO PROPSED BUILDING						
2+000	200 x 200 TEE	104.280	101.500		2.780		
2+005.17	200mm VB	104.280	101.710		2.570		
2+006.22	WATER CAP	104.340	101.800		2.540		

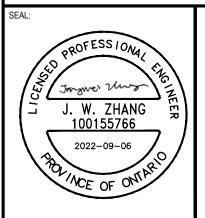
	From 150x150 T	EE TO PROPSED F	IRE HYDRANT	
3+000	150X150 TEE	104.710	102.200	2.510
3+005.33	150mm GV	104.690	102.200	2.490
3+006.36	FIRE HYDRANT	104.680	102,200	2.480

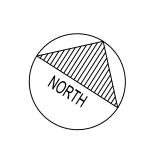


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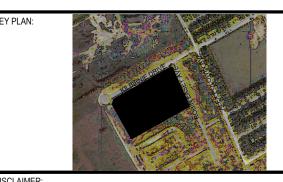


CLIENT:



PROJECT:

CEPEO BARRHAVEN
MANOTICK ELEMENTARY SCHOOL



DISCLAIMER:

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THIS DRAWING IS NOT TO BE SCALED.

ISSUED FOR - REVISION:

SHEET NUMBER:

ISSUED FOR SPA

DATE OF: 2022-07-25

4		06 SEPT 2022	REVISED GRADING				
3		25 JUL 2022	REVISED GRADING				
2		13 APR 2022	ISSUED FOR SPA	TT COMMENTS			
1		21 MAR 2022	ISSUED FOR BID AN	D PERMIT			
IS	RE	DATE		RIPTION			
PROJE	CT NO:			DATE:			
219-0	0014-	01		JULY 2022			
ORIGIN	IAL SCA	LE:					
1:400)			IF THIS BAR IS NOT 25mm LONG, ADJUST YOUR			
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