

NOTES: GENERAL

- 1. DRAWINGS TO BE READ IN CONIUNCTION 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 HYDRO, BELL, CABLE TV, AND CONSUMERS 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 AREAS 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 LTD. DATED ON OCTOBER 19, 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.
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. STORMWATER MANAGEMENT REPORT, PREPARED BY WSP CANADA INC. PROJ. NO. 219-00058-03, MARCH 18, 2022
II. DRAFT GEOTECHNICAL REPORT - 415 LEGGET DRIVE - RENOVATION AND FIT-UP AND NEW SITE DEVELOPMENTS, PREPARED BY WSP CANADA INC. PROJ NO. 219-00058-03, OCTOBER, 2021

NOTES: EROSION AND SEDIMENT CONTROL

- ** CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION, MONITORING, REPAIR AND REMOVAL OF ALL EROSION AND SEDIMENT CONTROL FEATURES, AND MEETING ASSOCIATED LEED REQUIREMENT **
1. PRIOR TO START OF CONSTRUCTION:
1.1. INSTALL SILT FENCE IN LOCATION SHOWN ON DWG C08 AND C09.
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 CBS 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 SCRAPPED.
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 ADJUTING 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. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED IMMEDIATELY FOLLOWING A RAINFALL EVENT.
2.17. 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 APPURTENANCES, 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 19 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.

NOTES: SANITARY SEWER AND MANHOLES

- 9. 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.
10. 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.
11. SEWER BEDDING AS PER CITY OF OTTAWA DETAIL S6.
12. MAINTENANCE HOLE BENCHING AND PIPE OPENING ALTERNATIVES AS PER THE OPSD 701.021
13. ANY SANITARY SEWER WITH LESS THAN 2.5m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR APPROVED BY THE ENGINEER.

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 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 AND LIGHT DUTY AREAS TO BE AS SPECIFIED IN THE GEOTECHNICAL REPORT AND SHOWN ON THE PLANS.

NOTES: STORM SEWERS AND STRUCTURES

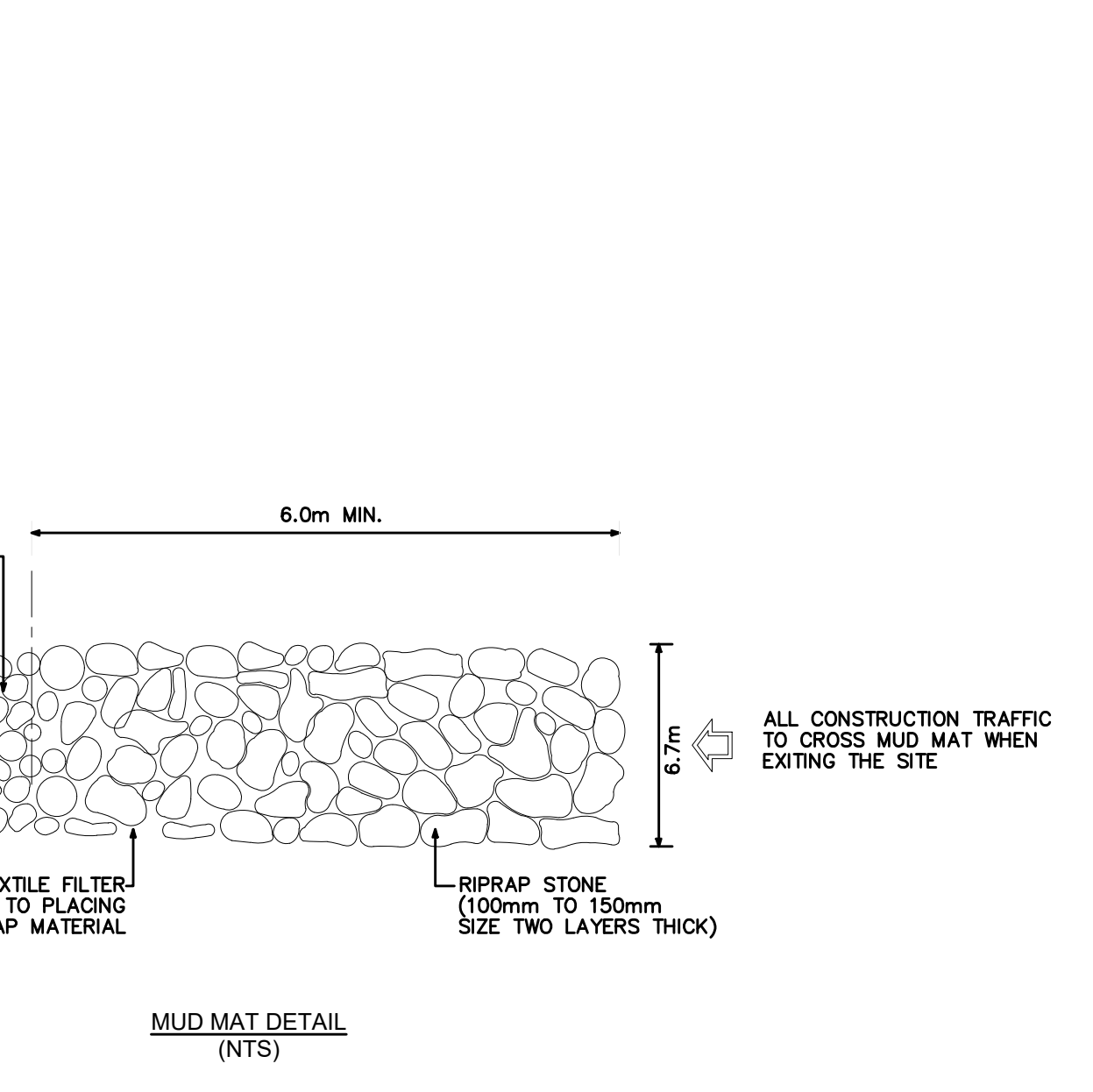
- 14. ALL STORM SEWER MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. PROVIDE CCTV INSPECTION REPORTS FOR ALL NEW STORM SEWERS, SERVICES AND CB LEADS.
15. STORM SEWERS 450mm DIAMETER AND SMALLER SHALL BE PVC SDR-35, WITH RUBBER GASKET PER CSA A-257.3.
16. SEWER BEDDING AS PER CITY OF OTTAWA DETAIL S6.
17. ALL STORM MANHOLES 1200mm IN DIAMETER TO BE AS PER OPSD 701.01. FRAME AND COVER TO BE AS PER CITY OF OTTAWA STANDARD S25 AND S24.1.
18. 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.
19. CB IN LANDSCAPE AREAS SHALL BE AS PER CITY OF OTTAWA STANDARD S31.
20. ALL CATCHBASIN LEADS TO BE MINIMUM 200mm DIAMETER AT MINIMUM 1.0% SLOPE UNLESS OTHERWISE SPECIFIED.
21. STORM CATCHBASINS AS PER OPSD 705.010 AND FRAME/COVER AS PER CITY STANDARD DRAWINGS S19. STORM CBMHS AS INSTALLED IN TABLE WITH SUMP AND FRAME/COVER AS PER OPSD 401.010 TYPE B. SANITARY MHS AS PER OPSD 701.010 TYPE A BASE WITH BENCHING, AND FRAME/COVER AS PER OPSD 401.010 TYPE A. ADJUSTMENT SECTIONS SHALL BE AS PER OPSD 704.010.
22. INSTALLATION OF FLOW CONTROL ICDS TO BE VERIFIED BY QUALITY VERIFICATION ENGINEER RETAINED BY CONTRACTOR.
23. BACKWATER VALVES FOR BUILDING SERVICES ARE TO BE PROVIDED AS PER CITY OF OTTAWA STANDARD S14 FOR STORM AND AND S14.1 FOR SANITARY.
24. COVERS FOR STORM MAINTENANCE HOLES STMH06, STMH10 AND STMH12 LOCATED IN PROPOSED PONDING AREAS ARE TO BE WATERTIGHT.

PAVEMENT STRUCTURE - HEAVY DUTY TRAFFIC AREAS. TABLE with columns COURSE, MATERIAL, THICKNESS. WEAR COURSE: HL-3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE 40mm. BINDER COURSE: HL-4 OR SUPERPAVE 19.0 ASPHALTIC CONCRETE 50mm. BASE: OPSS GRANULAR 'A' CRUSHED STONE 150mm. SUBBASE: OPSS GRANULAR 'B' TYPE II 450mm.

PAVEMENT STRUCTURE - LIGHT DUTY AND PARKING AREAS. TABLE with columns COURSE, MATERIAL, THICKNESS. WEAR COURSE: HL-3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE 50mm. BASE: OPSS GRANULAR 'A' CRUSHED STONE 150mm. SUBBASE: OPSS GRANULAR 'B' TYPE II 300mm.

PAVEMENT STRUCTURE - RIGID PAVEMENT. TABLE with columns COURSE, MATERIAL, THICKNESS. WEAR COURSE: CONCRETE 180mm. BASE: OPSS GRANULAR 'A' CRUSHED STONE 400mm.

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ACCESS STORAGE
415 LEGGET DRIVE
ACCESS STORAGE

LICENSED PROFESSIONAL ENGINEER
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2022-03-25
PROVINCE OF ONTARIO

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ISSUED FOR - REVISION table with columns NO, DATE, DESCRIPTION. Includes entries for 2022/03/18 (REVISED AS PER CITY COMMENTS) and 2021/10/25 (ISSUED FOR SPCA).

PROJECT NO: 219-00058-03
ORIGINAL SCALE: AS SHOWN
DESIGNED BY: D.Y.
DRAWN BY: J.T.
CHECKED BY: D.Y.
DISCIPLINE: CIVIL
DATE: MARCH 2018

NOTES AND DETAILS
SHEET NUMBER: C01
SHEET #: 1 OF 8
ISSUE: REVISED AS PER CITY COMMENTS
DATE OF: 2022/03/18
REV #: 0

WATERMAIN SCHEDULE					
STATION	DESCRIPTION	FINISHED GRADE	TOP OF WATERMAIN	AS-BUILT WATERMAIN	COVER
150mm DOMESTIC SERVICE TO BLDG A					
0+000	Connect to Ex. Building Water Room	78.54	76.14		2.400
0+001.7	150mm V&VB	78.48	76.08		2.400
0+007.9	45° Bend	77.34	74.94		2.400
0+010.9	Crossing under existing 200mm watermain	77.20	74.10		3.100
0+013.4	45° Bend	77.22	74.82		2.400
0+038.4	Crossing under 200mm Sprinkler Service to Bldg B	77.22	73.99		3.230
0+049.6	150x150mm Tee (Domestic to Bldg B)	77.06	74.66		2.400
0+060.2	45° Bend	77.02	74.62		2.400
0+108.6	Crossing under 200mm watermain	77.36	74.26		3.100
0+116.2	45° Bend	77.41	75.01		2.400
0+128.00	45° Bend	77.52	75.12		2.400
0+131.9	45° Bend	77.54	75.14		2.400
0+133.3	150mm V&VB	77.73	75.33		2.400
0+135.00	150mm W/M Stub (Bldg A)	77.65	75.25		2.400
150mm DOMESTIC SERVICE TO BLDG B					
0+000.0	150x150mm Tee (Domestic to Bldg B)	77.06	74.66		2.400
0+003.9	Crossing under 250mm PVC SAN	77.03	74.63		2.400
0+014.6	150mm V&VB	77.32	74.92		2.400
0+015.6	150mm W/M Stub (Bldg B)	77.35	74.95		2.400
250mm WATERMAIN LOOPING					
0+000.0	Connect to Ex. 250mm W/M with VB	77.13	74.73		2.400
0+002.5	45° Bend	77.09	74.69		2.400
0+050.7	250x200mm Tee (FH 1)	77.37	74.97		2.400
0+058.2	45° Bend	77.42	75.02		2.400
0+108.4	250x150mm Tee (FH 2)	77.80	75.40		2.400
0+134.0	250x200mm Tee (Sprinkler Service to Bldg A)	77.82	75.42		2.400
0+150.1	250mm DMA	77.85	75.45		2.400
0+153.2	Connect to Ex. 305mm W/M	77.85	75.45	75.450	2.400
200mm SPRINKLER SERVICE TO BLDG B					
0+000.0	Connect to Ex. 250mm with 250x200mm TEE	77.85		75.450	2.400
0+001.5	Crossing above 150mm Domestic Service	77.22	74.82		2.400
0+005.3	Crossing under 250mm PVC SAN	77.11	74.71		2.400
0+015.2	200mm V&VB	77.45	75.05		2.400
0+016.3	200mm W/M Stub (Bldg B)	77.35	74.95		2.400
200mm SPRINKLER SERVICE TO BLDG A					
0+000.0	250x200mm TEE	77.82	75.42		2.400
0+014.6	11.25° Bend	78.06	75.66		2.400
0+020.5	200mm V&VB	78.14	75.74		2.400
0+021.5	200mm W/M Stub (Bldg A)	78.30	75.90		2.400
TO FIRE HYDRANT 1					
0+000.0	250x200mm Tee	77.37	74.97		2.400
0+002.0	Crossing above 150mm Domestic Service	77.36	74.96		2.400
0+005.0	Crossing under 200mm PVC SAN	77.33	74.93		2.400
0+053.3	45° Bend	76.45	74.05		2.400
0+072.0	200x150mm Reducer	76.42	74.02		2.400
0+074.4	150mm V&VB	76.57	74.17		2.400
0+076.7	FH 1	76.60	74.20		2.400
TO FIRE HYDRANT 2					
0+000.0	250x150mm Tee	77.80	75.40		2.400
0+017.5	150mm V&VB	78.18	75.78		2.400
0+019.7	FH 2	78.27	75.87		2.400

STORM STRUCTURE AND ICD DATA TABLE														
STRUCTURE ID	AREA ID	SIZE	STRUCTURE	COVER	TOP OF GRATE	INVERT				DIAMETER (mm)	TYPE	HEAD (m)	FLOW (l/s)	ICD TYPE
						INLET	INLET	INLET	OUTLET					
415 LEGGET DRIVE														
LCB01		250mm DIA.	S30	S30	77.50					76.500	250	HDPE		
LCB02		250mm DIA.	S30	S30	76.20					75.450	250	HDPE		
LCB03		250mm DIA.	S30	S30	76.73					75.730	250	HDPE		

SAN STRUCTURE TABLE							
STRUCTURE ID	TOP OF GRATE ELEVATION	INVERT			DESCRIPTION		
		INLET	INLET	OUTLET	SIZE	OPSD	COVER
SAMH101	77.69			75.050	75.020	1200mm DIA.	OPSD-701.010 S24
SAMH102	77.00		75.300	75.340	75.340	1200mm DIA.	OPSD-701.010 S24
SAMH103	76.97			75.420	75.390	1200mm DIA.	OPSD-701.010 S24
SAMH104	77.59			75.680	75.650	1200mm DIA.	OPSD-701.010 S24

PIPE CROSSING TABLE								
1	200mmØ PVC W/M	Invert		0.630	Clearance Above	Invert		150mmØ PVC W/M
		Obvert	Obvert			Obvert	Obvert	
1	200mmØ PVC W/M	74.620	74.820	0.630	Clearance Above	73.840	73.990	150mmØ PVC W/M
2	200mmØ PVC W/M	74.510	74.710	0.590	Clearance Under	75.300	75.550	250mmØ PVC SAN
3	150mmØ PVC W/M	74.480	74.630	0.700	Clearance Under	75.330	75.580	250mmØ PVC SAN
4	200mmØ PVC W/M	74.760	74.960	0.500	Clearance Above	74.110	74.260	150mmØ PVC W/M
5	200mmØ PVC W/M	74.730	74.930	0.670	Clearance Under	75.600	75.800	200mmØ PVC SAN
6	150mmØ PVC W/M	73.900	74.100	0.500	Clearance Under	74.600	74.800	EXISTING 200mmØ PVC W/M

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CLIENT:

CLIENT REF # --

PROJECT:

**415 LEGGET DRIVE
ACCESS STORAGE**

SEAL:

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PROJECT NO: 219-00058-03 DATE: MARCH 2018
ORIGINAL SCALE: AS SHOWN
DESIGNED BY: D.Y.
DRAWN BY: J.T.
CHECKED BY: D.Y.
DISCIPLINE: CIVIL

TITLE: **DESIGN TABLES**

SHEET NUMBER: **C01A**

SHEET #: 2 OF 8

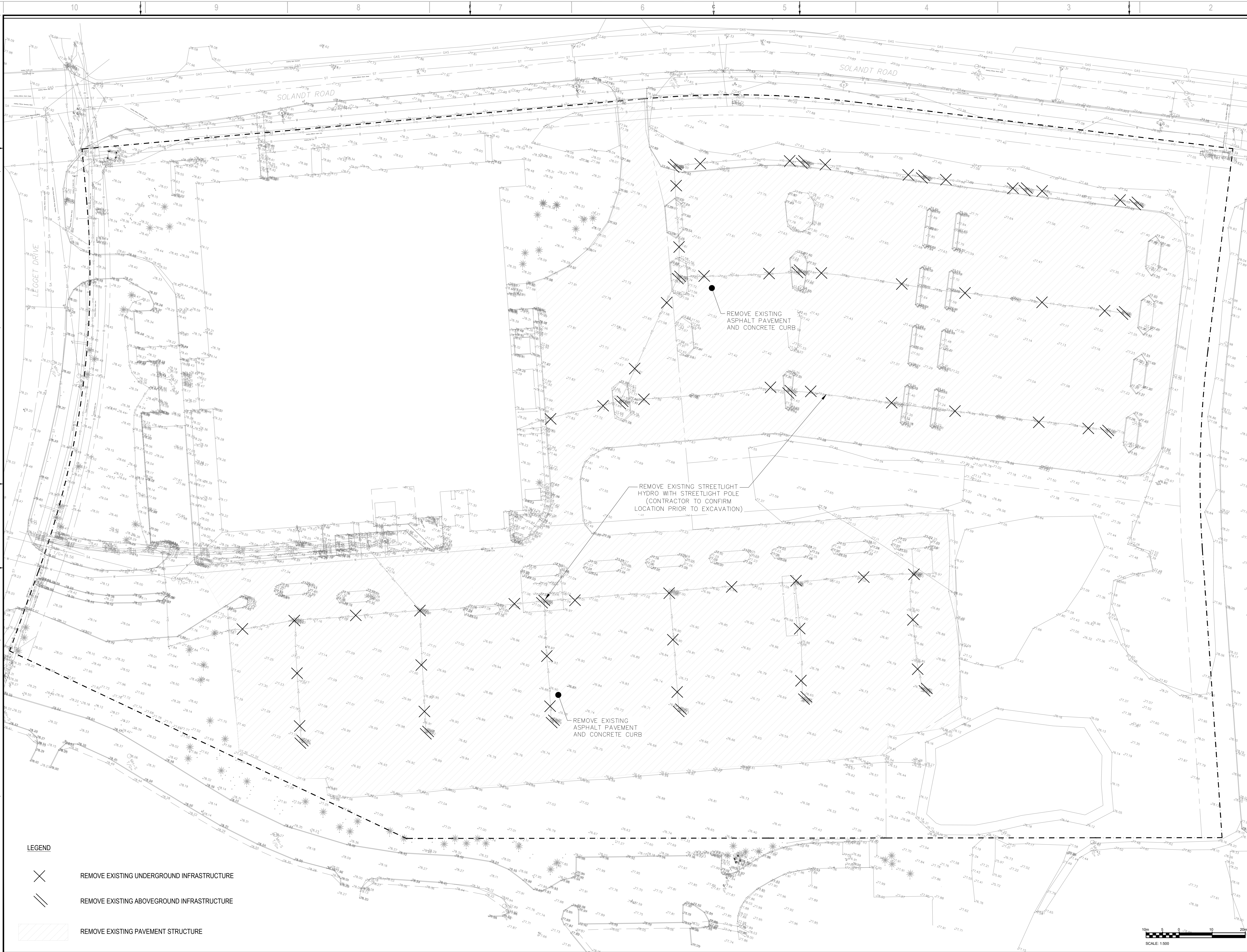
ISSUE: REVISED AS PER CITY COMMENTS

DATE OF: 2022/03/18

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D07-12-21-0211



- LEGEND**
- REMOVE EXISTING UNDERGROUND INFRASTRUCTURE
 - REMOVE EXISTING ABOVEGROUND INFRASTRUCTURE
 - REMOVE EXISTING PAVEMENT STRUCTURE

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ACCESS STORAGE

CLIENT REF. # --
 PROJECT:
**415 LEGGET DRIVE
 ACCESS STORAGE**

SEAL

LICENCED PROFESSIONAL ENGINEER

D. B. YANG
 100230568
 2022-03-25
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219-00058-03

DATE:
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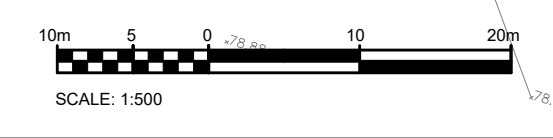
TITLE:
REMOVAL PLAN

SHEET NUMBER:
C02

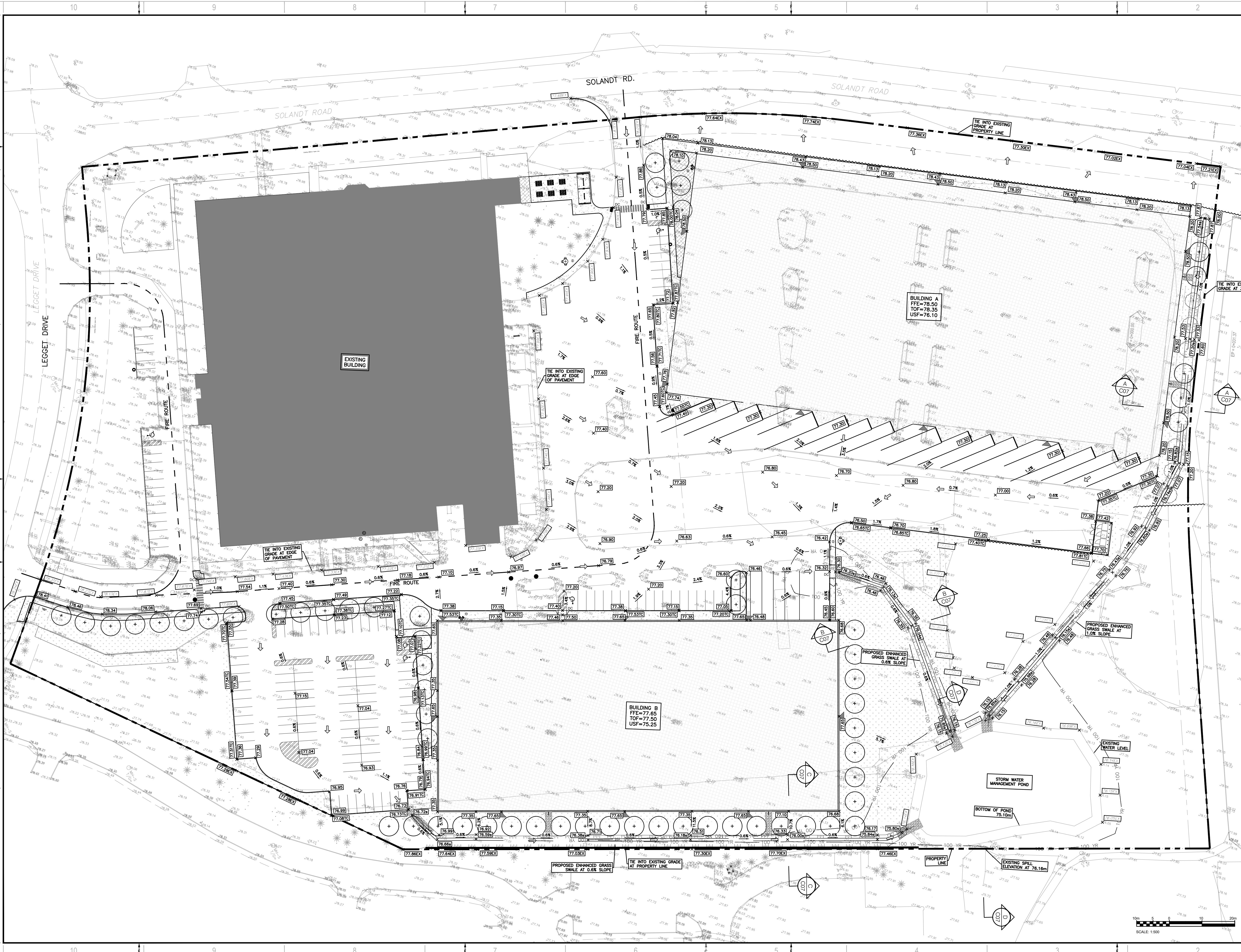
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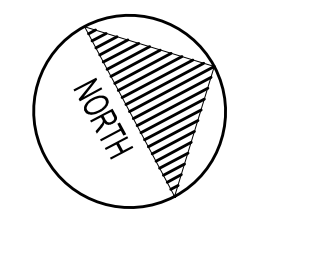
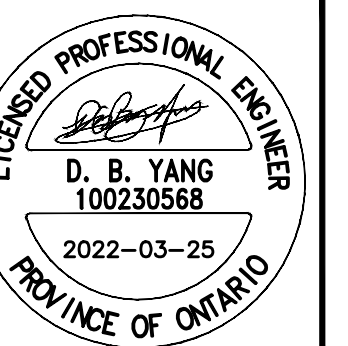
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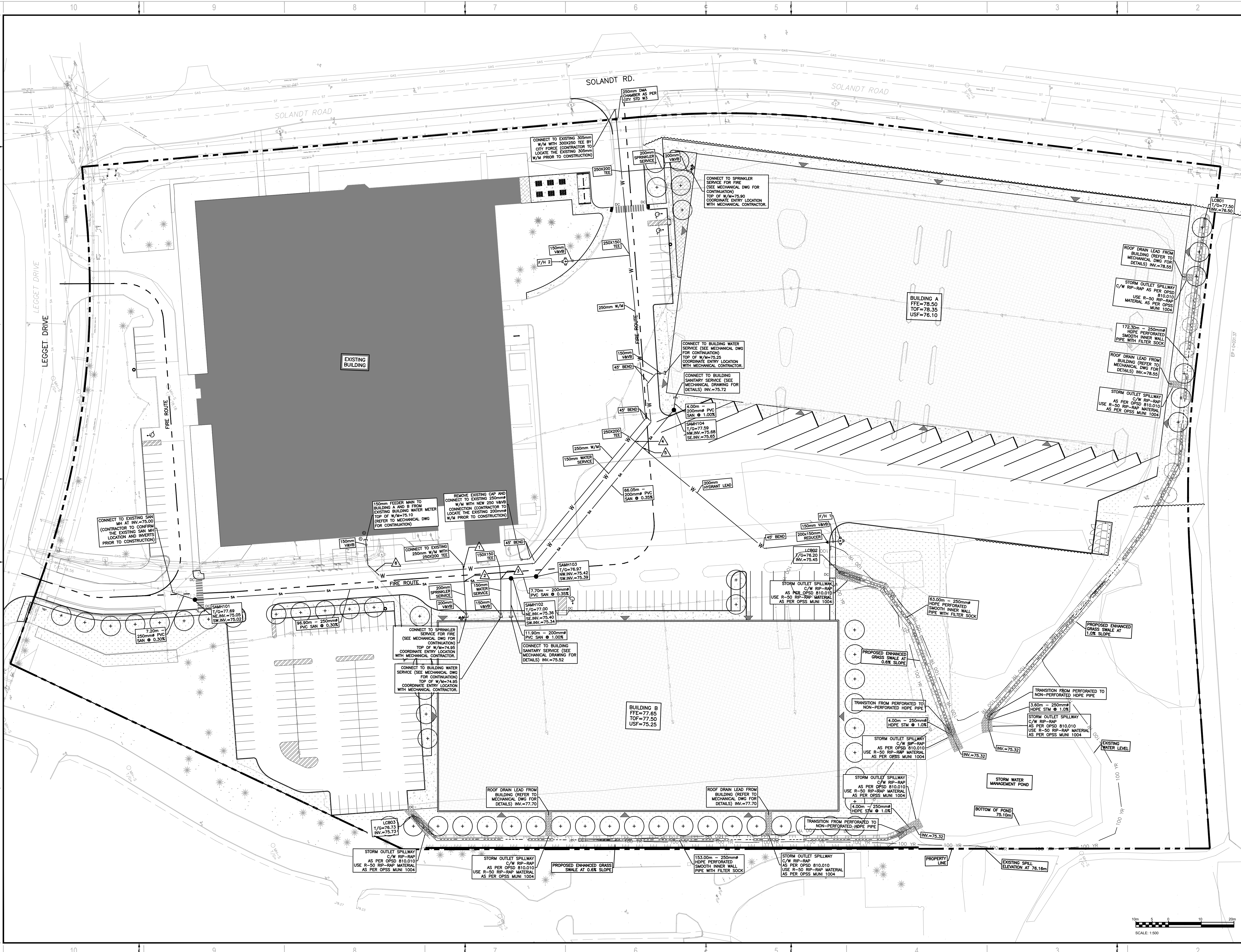
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TITLE: GRADING PLAN
SHEET NUMBER: C03
SHEET #: 4 OF 8
ISSUE: REVISED AS PER CITY COMMENTS
DATE OF: 2022/03/18
REV #: 0

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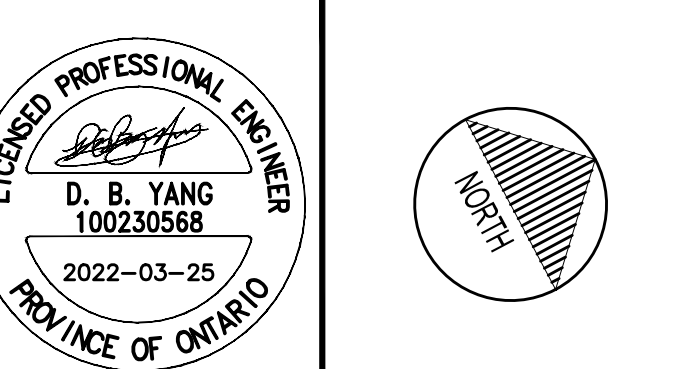


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415 LEGGET DRIVE
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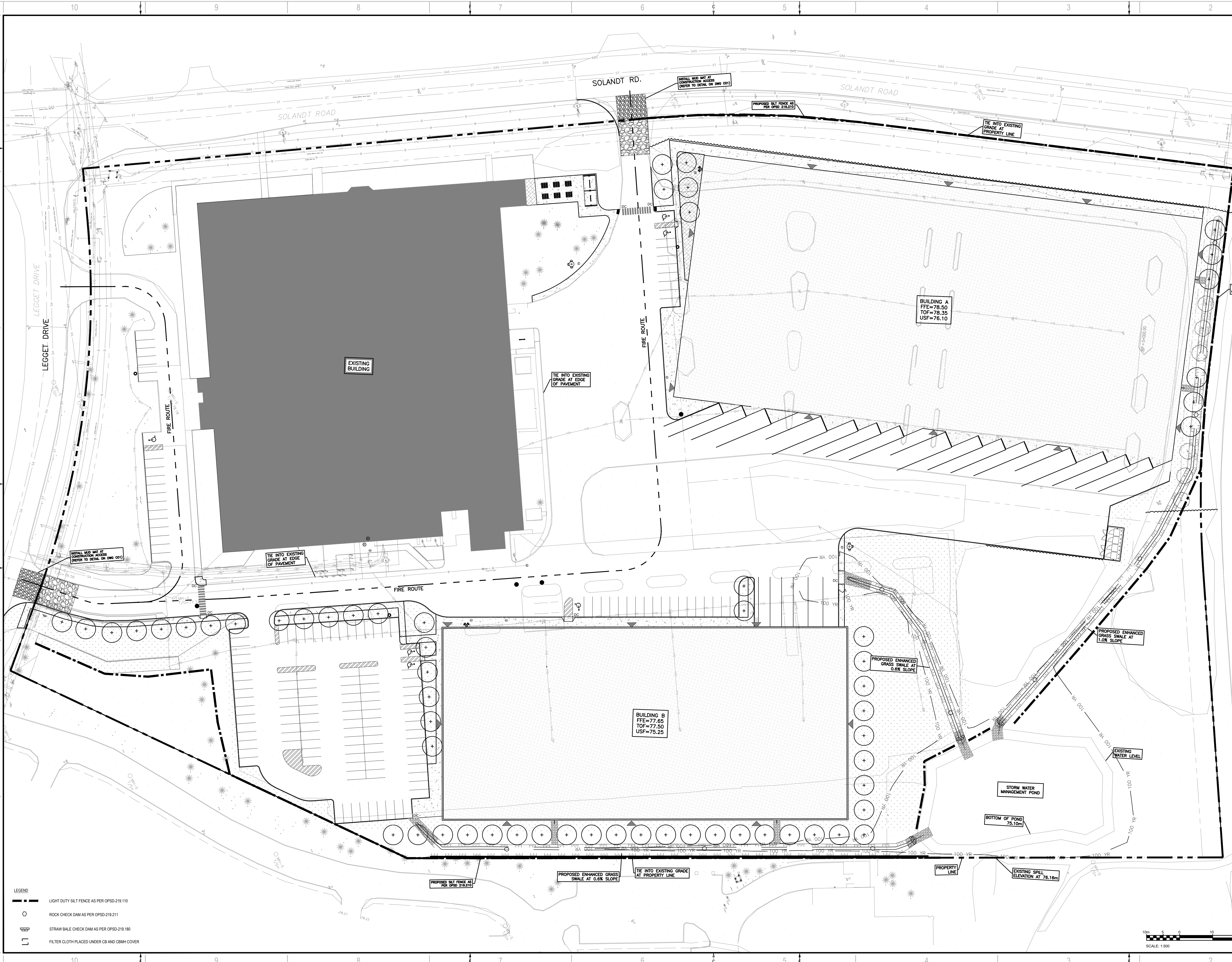
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TITLE:	SERVICING PLAN		
SHEET NUMBER:	C04		
SHEET #:	5	OF	8
ISSUE:	REVISED AS PER CITY COMMENTS		
DATE:	2022/03/18	REV #:	0



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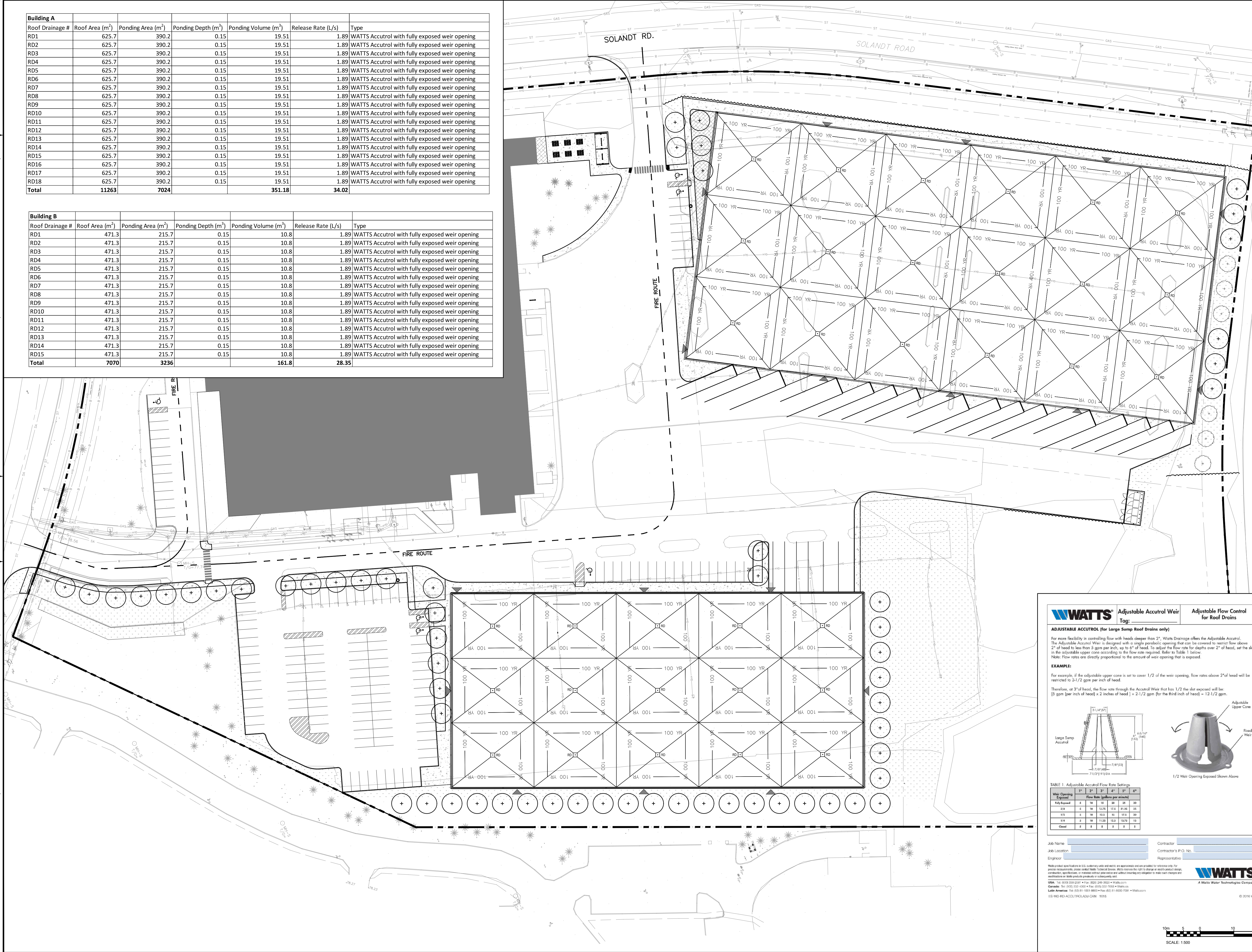
DISCIPLINE: CIVIL
 TITLE: EROSION AND SEDIMENT CONTROL PLAN
 SHEET NUMBER: C05
 SHEET # 6 OF 8
 ISSUE: REVISED AS PER CITY COMMENTS
 DATE OF: 2022/03/18
 REV # 0

- LEGEND
- LIGHT DUTY SILT FENCE AS PER OPSD-219.110
 - ROCK CHECK DAM AS PER OPSD-219.211
 - ▭ STRAW BALE CHECK DAM AS PER OPSD-219.180
 - ▭ FILTER CLOTH PLACED UNDER CB AND CBMH COVER



Building A						
Roof Drainage #	Roof Area (m ²)	Ponding Area (m ²)	Ponding Depth (m)	Ponding Volume (m ³)	Release Rate (L/s)	Type
RD1	625.7	390.2	0.15	19.51	1.89	WATTS Accutrol with fully exposed weir opening
RD2	625.7	390.2	0.15	19.51	1.89	WATTS Accutrol with fully exposed weir opening
RD3	625.7	390.2	0.15	19.51	1.89	WATTS Accutrol with fully exposed weir opening
RD4	625.7	390.2	0.15	19.51	1.89	WATTS Accutrol with fully exposed weir opening
RD5	625.7	390.2	0.15	19.51	1.89	WATTS Accutrol with fully exposed weir opening
RD6	625.7	390.2	0.15	19.51	1.89	WATTS Accutrol with fully exposed weir opening
RD7	625.7	390.2	0.15	19.51	1.89	WATTS Accutrol with fully exposed weir opening
RD8	625.7	390.2	0.15	19.51	1.89	WATTS Accutrol with fully exposed weir opening
RD9	625.7	390.2	0.15	19.51	1.89	WATTS Accutrol with fully exposed weir opening
RD10	625.7	390.2	0.15	19.51	1.89	WATTS Accutrol with fully exposed weir opening
RD11	625.7	390.2	0.15	19.51	1.89	WATTS Accutrol with fully exposed weir opening
RD12	625.7	390.2	0.15	19.51	1.89	WATTS Accutrol with fully exposed weir opening
RD13	625.7	390.2	0.15	19.51	1.89	WATTS Accutrol with fully exposed weir opening
RD14	625.7	390.2	0.15	19.51	1.89	WATTS Accutrol with fully exposed weir opening
RD15	625.7	390.2	0.15	19.51	1.89	WATTS Accutrol with fully exposed weir opening
RD16	625.7	390.2	0.15	19.51	1.89	WATTS Accutrol with fully exposed weir opening
RD17	625.7	390.2	0.15	19.51	1.89	WATTS Accutrol with fully exposed weir opening
RD18	625.7	390.2	0.15	19.51	1.89	WATTS Accutrol with fully exposed weir opening
Total	11263	7024		351.18	34.02	

Building B						
Roof Drainage #	Roof Area (m ²)	Ponding Area (m ²)	Ponding Depth (m)	Ponding Volume (m ³)	Release Rate (L/s)	Type
RD1	471.3	215.7	0.15	10.8	1.89	WATTS Accutrol with fully exposed weir opening
RD2	471.3	215.7	0.15	10.8	1.89	WATTS Accutrol with fully exposed weir opening
RD3	471.3	215.7	0.15	10.8	1.89	WATTS Accutrol with fully exposed weir opening
RD4	471.3	215.7	0.15	10.8	1.89	WATTS Accutrol with fully exposed weir opening
RD5	471.3	215.7	0.15	10.8	1.89	WATTS Accutrol with fully exposed weir opening
RD6	471.3	215.7	0.15	10.8	1.89	WATTS Accutrol with fully exposed weir opening
RD7	471.3	215.7	0.15	10.8	1.89	WATTS Accutrol with fully exposed weir opening
RD8	471.3	215.7	0.15	10.8	1.89	WATTS Accutrol with fully exposed weir opening
RD9	471.3	215.7	0.15	10.8	1.89	WATTS Accutrol with fully exposed weir opening
RD10	471.3	215.7	0.15	10.8	1.89	WATTS Accutrol with fully exposed weir opening
RD11	471.3	215.7	0.15	10.8	1.89	WATTS Accutrol with fully exposed weir opening
RD12	471.3	215.7	0.15	10.8	1.89	WATTS Accutrol with fully exposed weir opening
RD13	471.3	215.7	0.15	10.8	1.89	WATTS Accutrol with fully exposed weir opening
RD14	471.3	215.7	0.15	10.8	1.89	WATTS Accutrol with fully exposed weir opening
RD15	471.3	215.7	0.15	10.8	1.89	WATTS Accutrol with fully exposed weir opening
Total	7070	3236		161.8	28.35	



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D.Y.

DRAWN BY:
J.T.

CHECKED BY:
D.Y.

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CIVIL

TITLE:
ROOF PLAN

SHEET NUMBER:
C04

SHEET #:
7 OF 8

ISSUE:
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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", Warrs Drainage offers the Adjustable Accutrol. The Adjustable Accutrol Weir is designed with a single parallel opening that can be covered to restrict flow above 2" of head to less than 3 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:
 [3 gpm (per inch of head) x 2 inches of head] = 2 1/2 gpm (for the third inch of head) = 12 1/2 gpm.

TABLE 1 - Adjustable Accutrol Flow Rate Settings

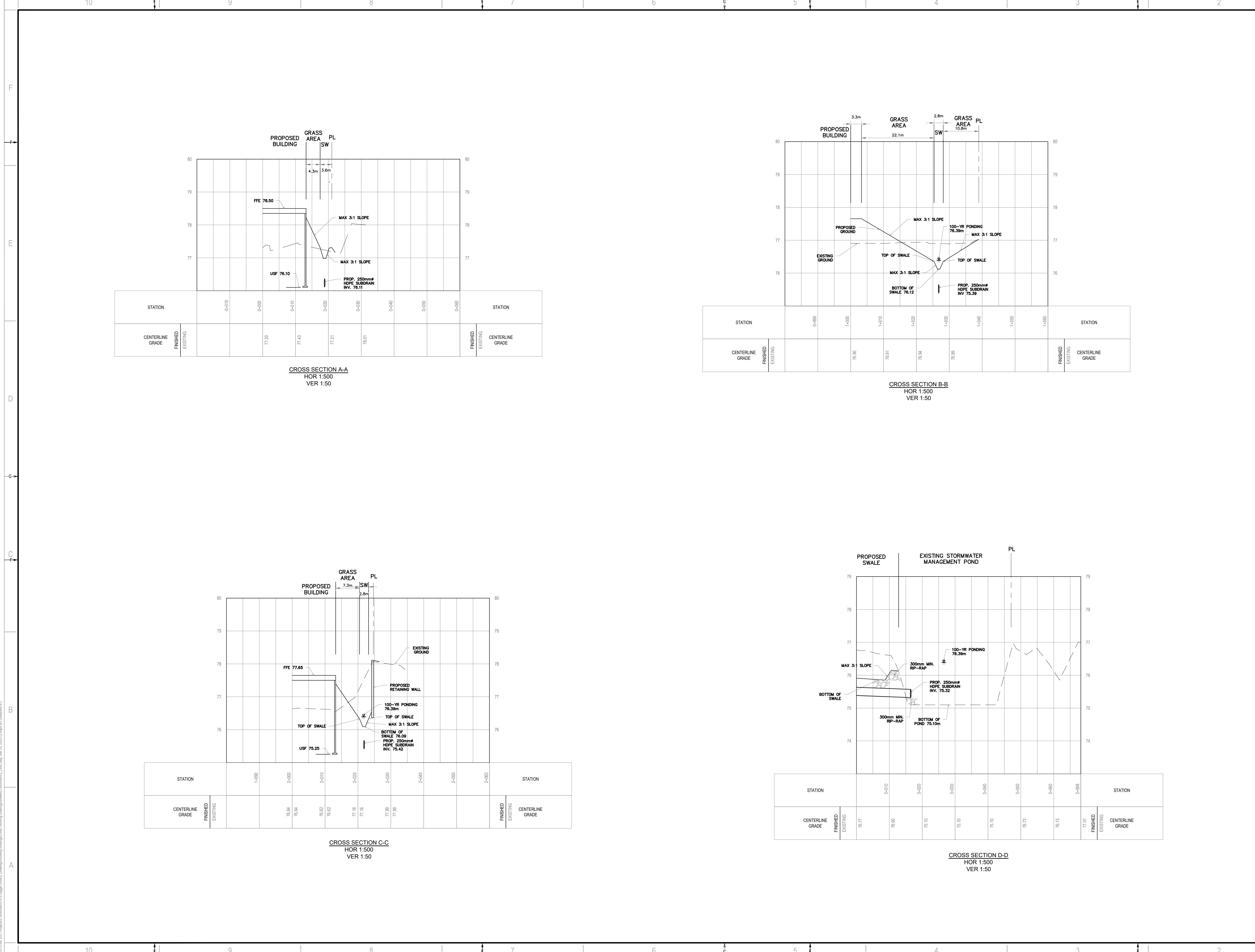
Weir Opening Exposed	1"	2"	3"	4"	5"	6"
1/4"	1.5	3.0	4.5	6.0	7.5	9.0
1/2"	3.0	6.0	9.0	12.0	15.0	18.0
3/4"	4.5	9.0	13.5	18.0	22.5	27.0
1"	6.0	12.0	18.0	24.0	30.0	36.0

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

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 Latin America: Tel: (521) 461-0000 • Fax: (521) 461-0000 • Warrs.com
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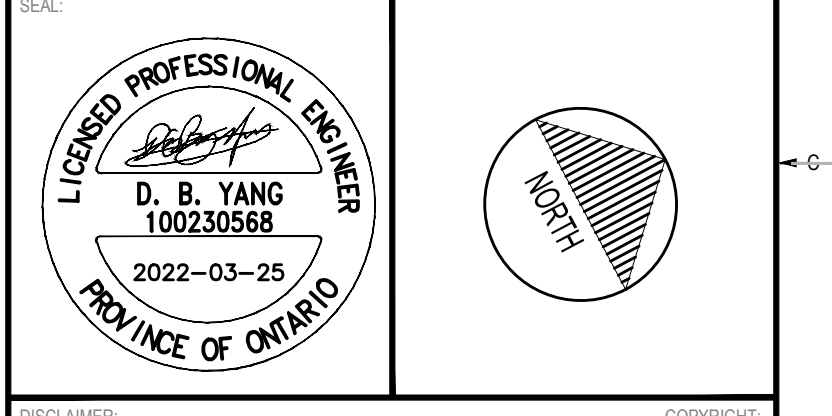
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PROJECT NO: 219-00058-03 DATE: MARCH 2018

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DRAWN BY: J.T.

CHECKED BY: D.Y.

DISCIPLINE: CIVIL

TITLE: SECTIONS

SHEET NUMBER: C07

SHEET # 8 OF 8

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