

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...

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 C06 AND C09.

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.

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.

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.

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.

PAVEMENT STRUCTURE - HEAVY DUTY TRAFFIC AREAS

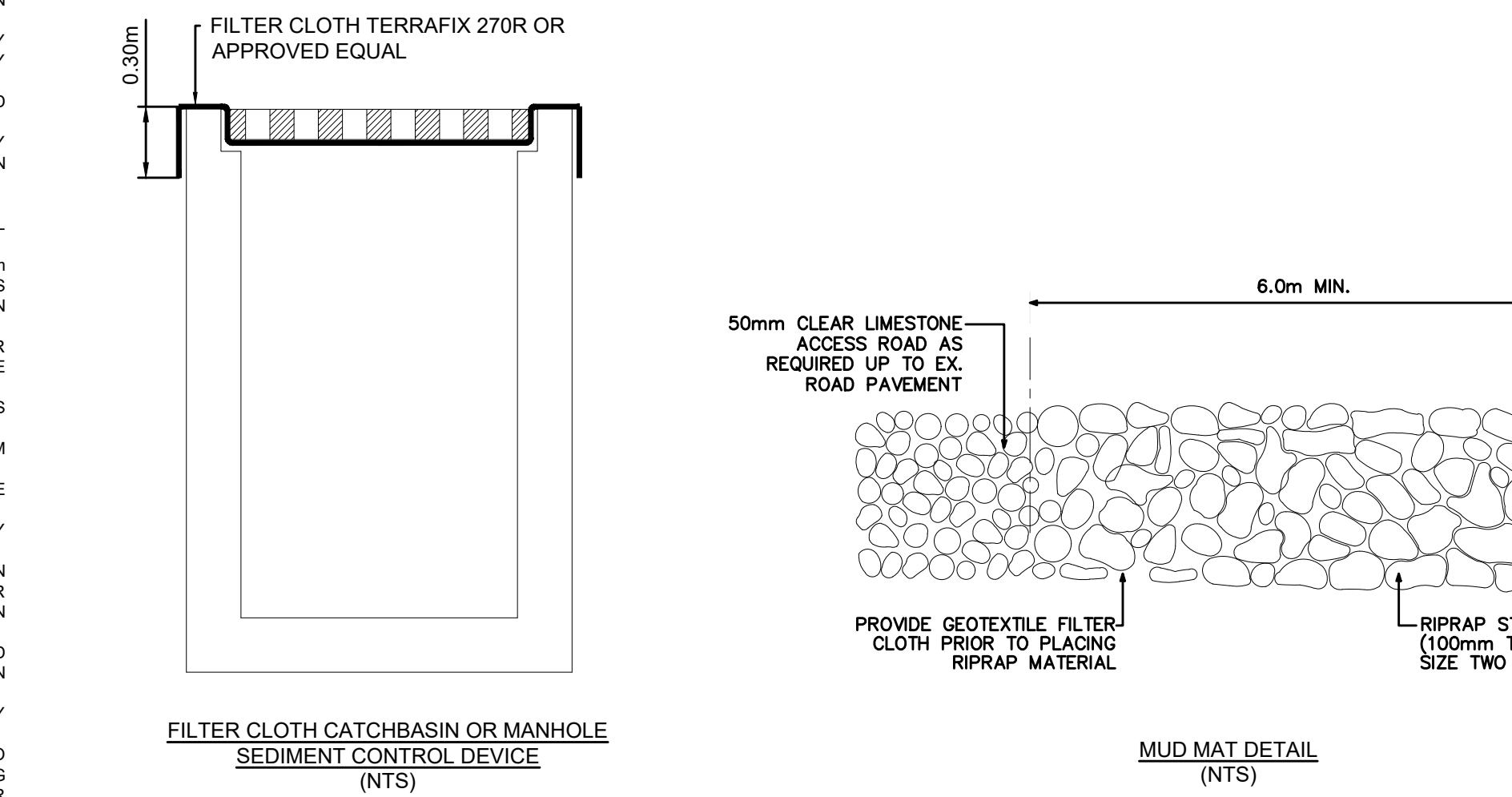
Table with 3 columns: COURSE, MATERIAL, THICKNESS. Includes WEAR COURSE, BINDER COURSE, BASE, and SUBBASE layers.

PAVEMENT STRUCTURE - LIGHT DUTY AND PARKING AREAS

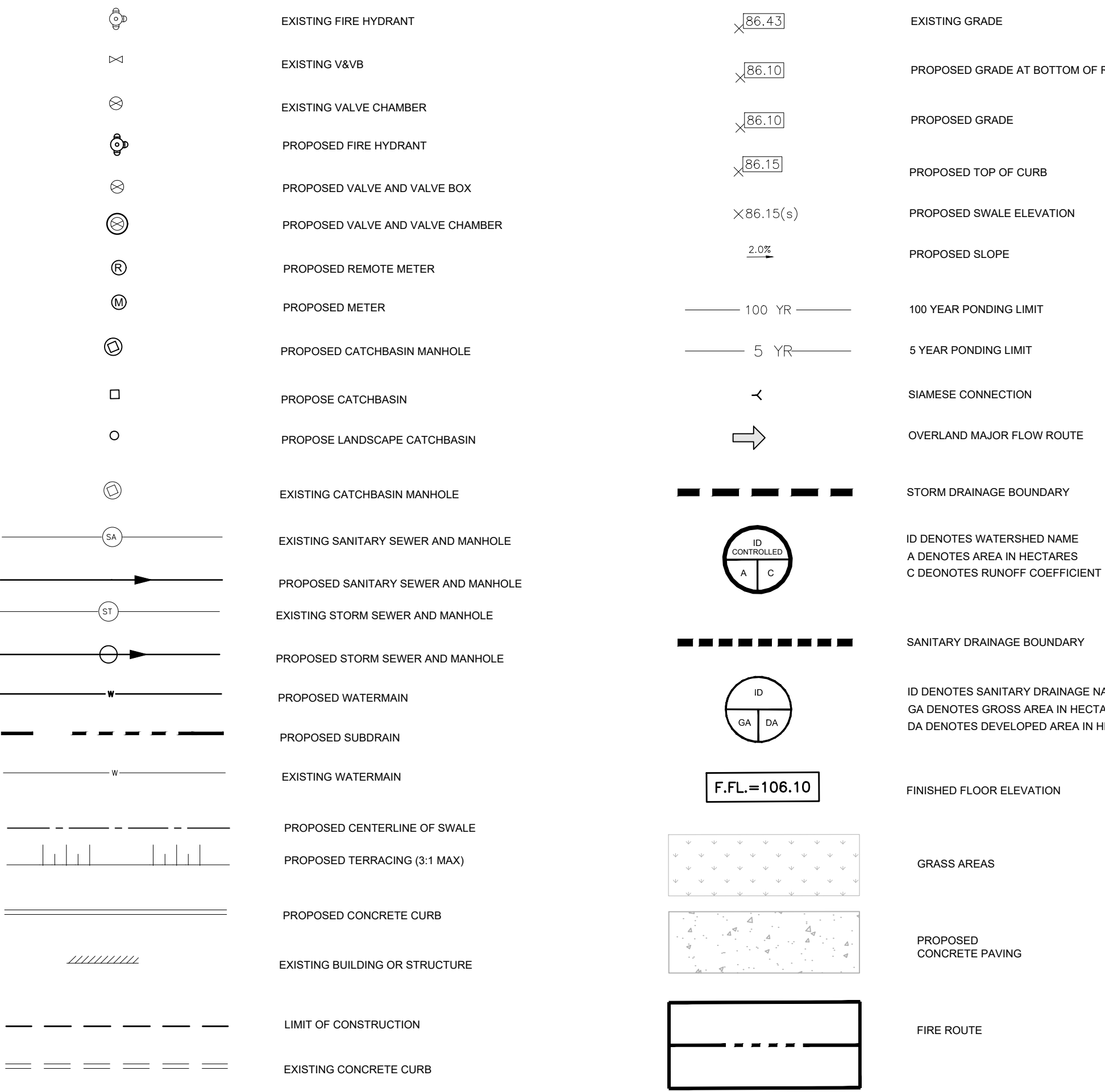
Table with 3 columns: COURSE, MATERIAL, THICKNESS. Includes WEAR COURSE, BASE, and SUBBASE layers.

PAVEMENT STRUCTURE - RIGID PAVEMENT

Table with 3 columns: COURSE, MATERIAL, THICKNESS. Includes WEAR COURSE and BASE layers.



LEGEND:



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ACCESS STORAGE logo and client information: CLIENT REF # - PROJECT: 415 LEGGET DRIVE ACCESS STORAGE

Professional Engineer seal for D. B. YANG (100230568) and a north arrow symbol.

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Table with 4 columns: ISSUE, REVISION, DATE, DESCRIPTION. Shows revision 2 dated 2022/03/18.

PROJECT NO: 219-00058-03, DATE: MARCH 2018, SHEET # 1 OF 8, TITLE: NOTES AND DETAILS, SHEET NUMBER: C01, DATE OF ISSUE: 2022/03/18.

DATE OF: 2022/03/18

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	Obvert		150mmØ PVC W/M
		74.620	74.820			73.840	73.990	
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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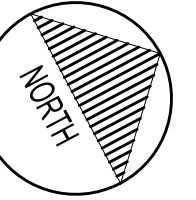
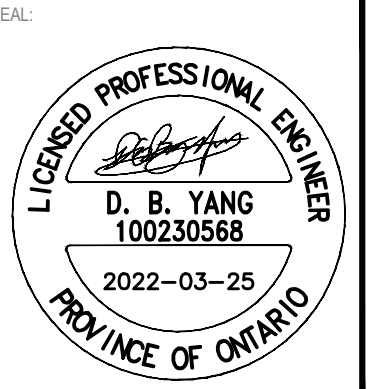


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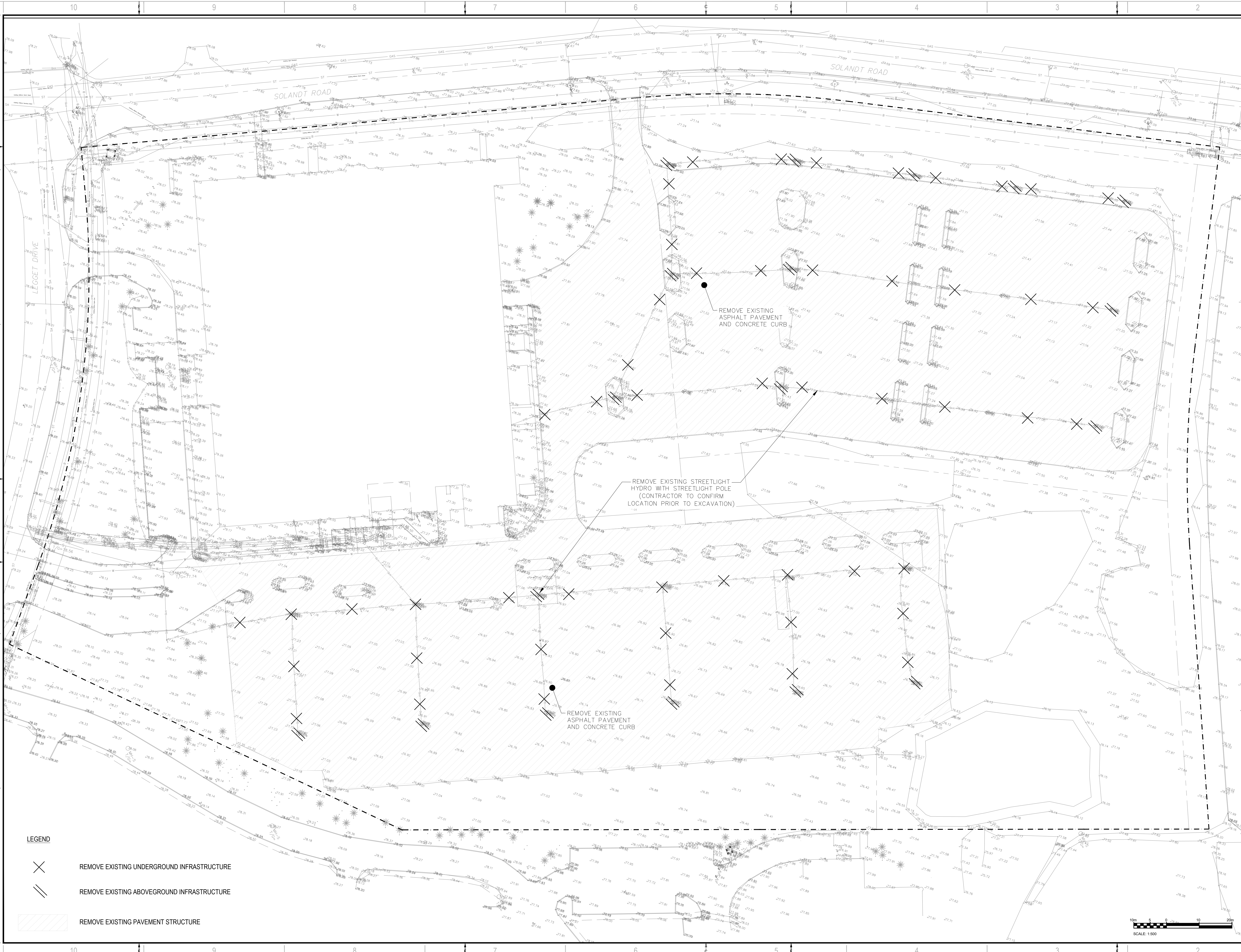
415 LEGGET DRIVE
ACCESS STORAGE



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2	2022/03/18	REVISED AS PER CITY COMMENTS
1	2021/10/25	ISSUED FOR SPCA

PROJECT NO:	219-00058-03	DATE:	MARCH 2018
ORIGINAL SCALE:	AS SHOWN	IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.	
DESIGNED BY:	D.Y.		
DRAWN BY:	J.T.		
CHECKED BY:	D.Y.		
DISCIPLINE:	CIVIL		
TITLE:	DESIGN TABLES		
SHEET NUMBER:	C01A		
ISSUE:	REVISED AS PER CITY COMMENTS	REV #:	0
DATE OF:	2022/03/18		



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

SEAL

LICENCED PROFESSIONAL ENGINEER
D. B. YANG
 D. B. YANG
 100230568
 2022-03-25
 PROVINCE OF ONTARIO

NORTH

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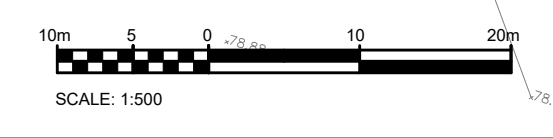
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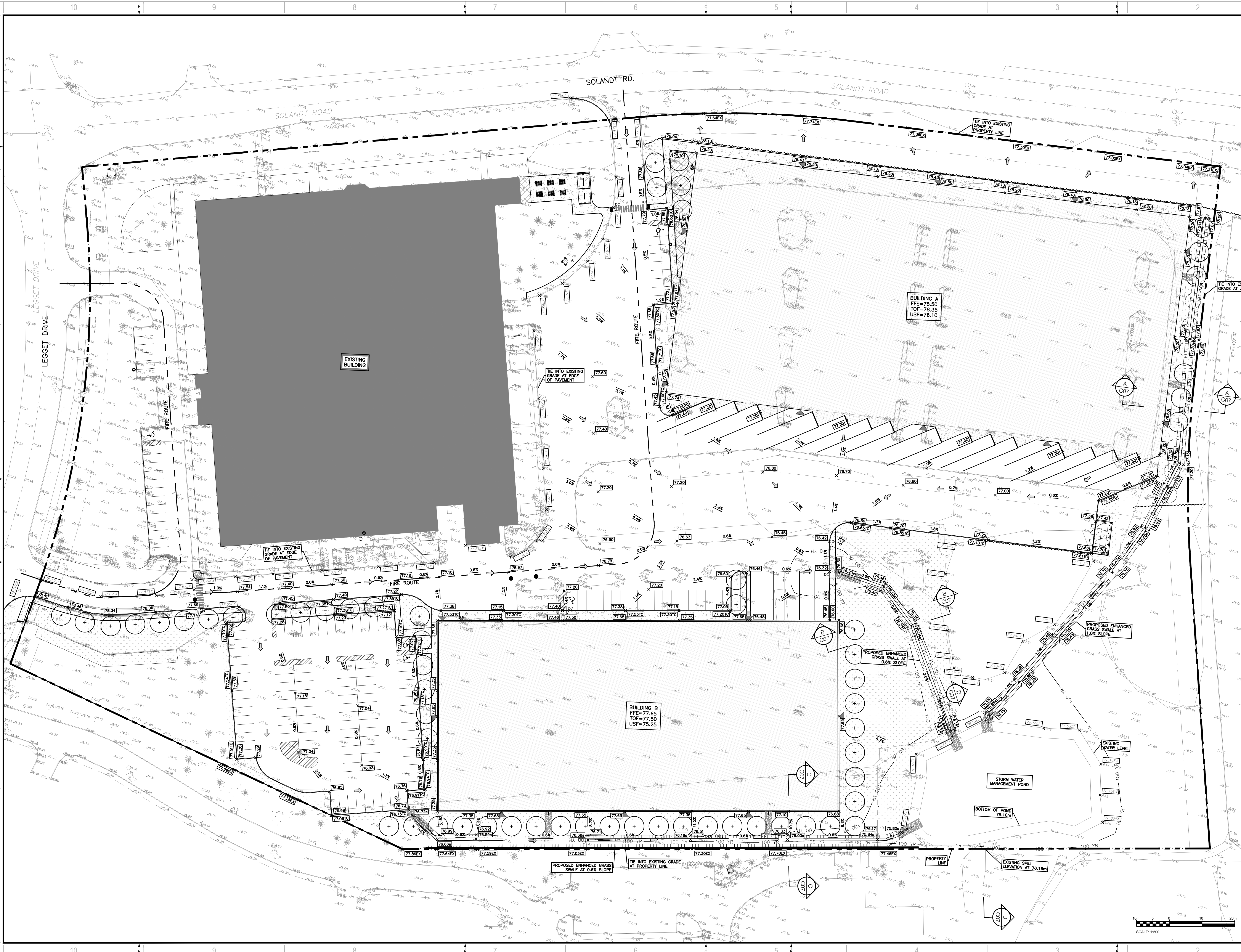
PROJECT NO: 219-00058-03	DATE: MARCH 2018
ORIGINAL SCALE: 1:500	IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.
DESIGNED BY: D.Y.	
DRAWN BY: J.T.	
CHECKED BY: D.Y.	
DISCIPLINE: CIVIL	
TITLE: REMOVAL PLAN	

SHEET NUMBER: C02	ISSUE: REVISED AS PER CITY COMMENTS	REV #: 0
DATE OF: 2022/03/18		

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



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

LICENSED PROFESSIONAL ENGINEER
D. B. YANG
100230568
2022-03-25
PROVINCE OF ONTARIO

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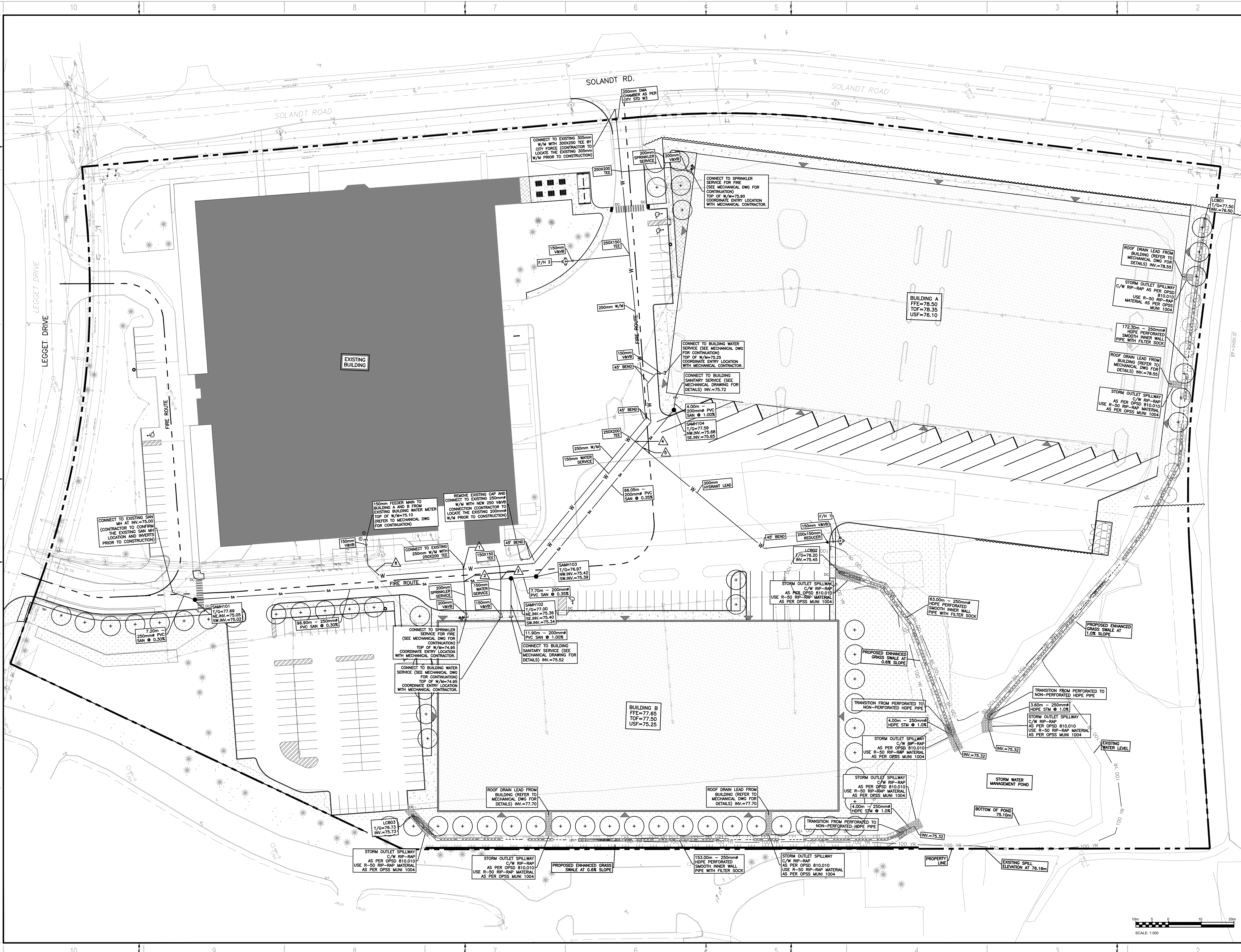
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2	2022/03/18	REVISED AS PER CITY COMMENTS
1	2021/10/25	ISSUED FOR SPCA

PROJECT NO: 219-00058-03	DATE: MARCH 2018
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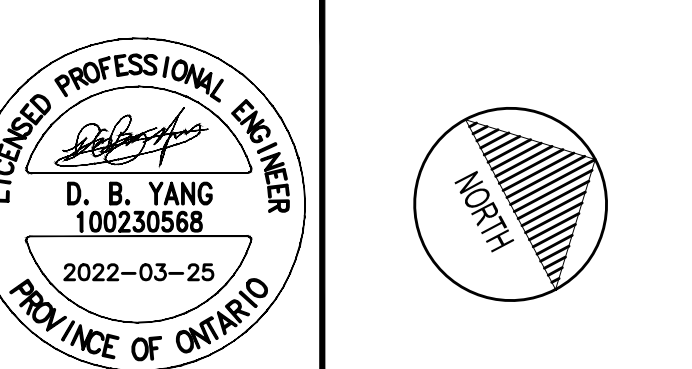
DISCIPLINE: CIVIL
TITLE: GRADING PLAN
SHEET NUMBER: C03
SHEET #: 4 OF 8
ISSUE: REVISED AS PER CITY COMMENTS
DATE OF: 2022/03/18
REV #: 0



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415 LEGGET DRIVE
 ACCESS STORAGE

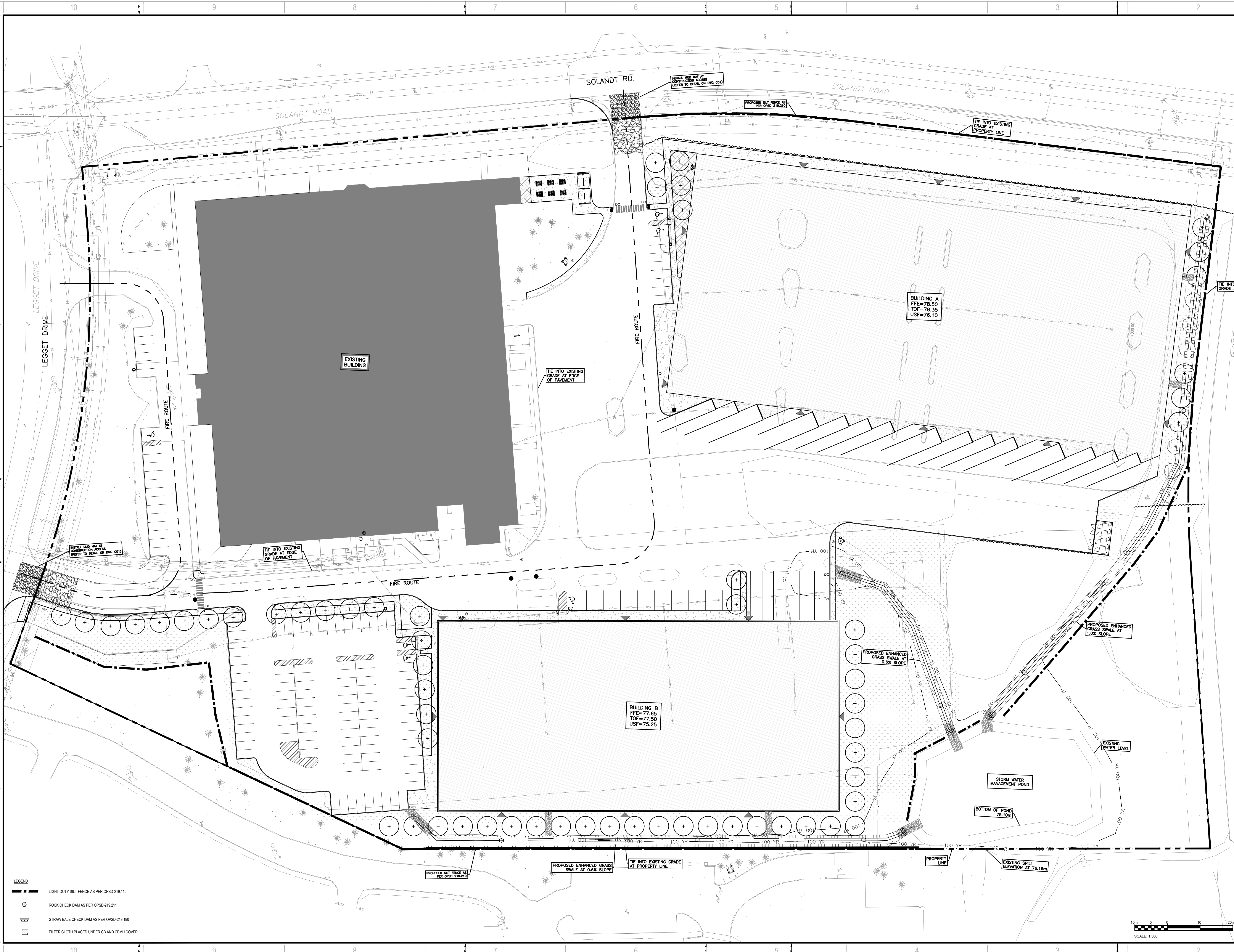


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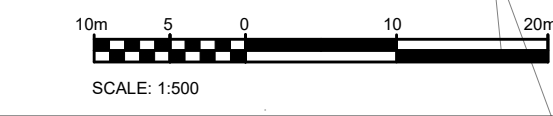
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CHECKED BY:	D.Y.		
DISCIPLINE:	CIVIL		
TITLE:	SERVICING PLAN		

SHEET NUMBER:	C04
SHEET #:	5 OF 8
ISSUE:	REVISED AS PER CITY COMMENTS
DATE:	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



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CLIENT:
ACCESS STORAGE

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

PROFESSIONAL ENGINEER
D. B. YANG
 100230568
 2022-03-25
 PROVINCE OF ONTARIO

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ISSUE NO.	DATE	DESCRIPTION
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1	2021/10/25	ISSUED FOR SPCA

PROJECT NO:
219-00058-03

ORIGINAL SCALE:
1:500

DESIGNED BY:
D.Y.

DRAWN BY:
J.T.

CHECKED BY:
D.Y.

DATE: **MARCH 2018**

DISCIPLINE: **CIVIL**

TITLE:
EROSION AND SEDIMENT CONTROL PLAN

SHEET NUMBER:
C05

ISSUE:
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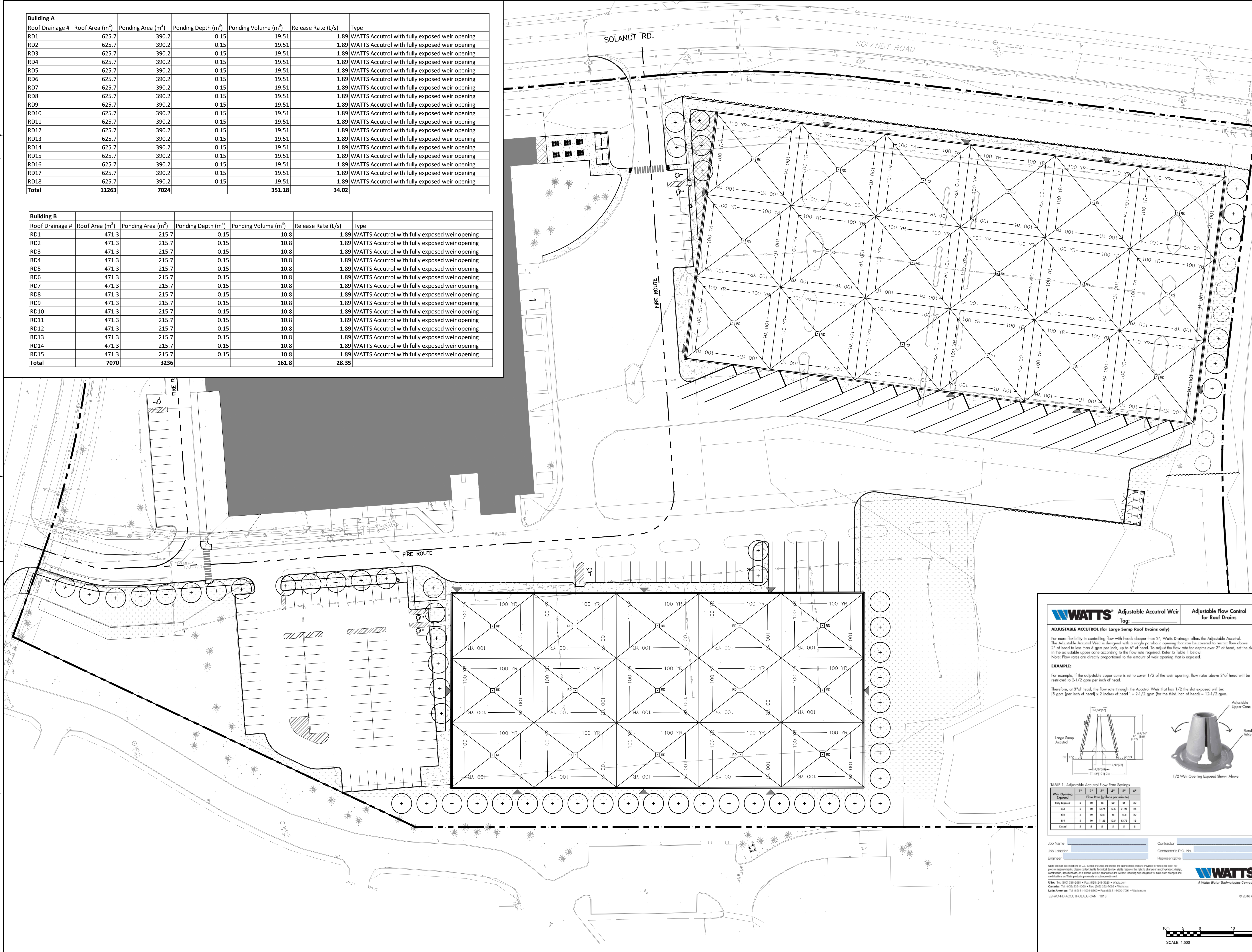
DATE OF: **2022/03/18**

REV #:
0

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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	



ARCHITECTURE 49

1345 ROSEMOUNT AVENUE
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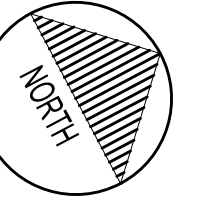
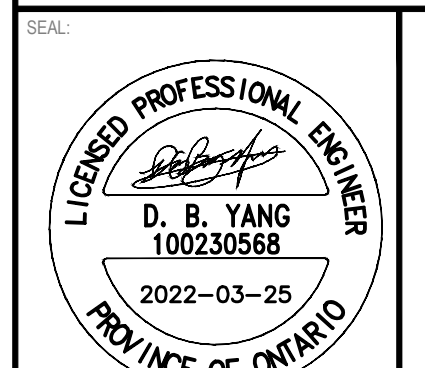


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415 LEGGET DRIVE
 ACCESS STORAGE



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ISSUED FOR - REVISION	NO.	DATE	DESCRIPTION
	2	2022/03/18	REVISED AS PER CITY COMMENTS
	1	2021/10/25	ISSUED FOR SPCA

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", Wats 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	2	3	4	5	6
1/2"	1	2	3	4	5	6
3/4"	1	2	3	4	5	6
1"	1	2	3	4	5	6
1 1/4"	1	2	3	4	5	6
1 1/2"	1	2	3	4	5	6
1 3/4"	1	2	3	4	5	6
2"	1	2	3	4	5	6

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

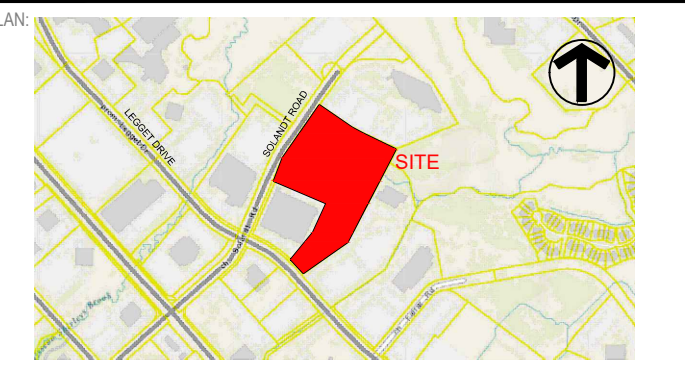
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 A Wats Water Technologies Company

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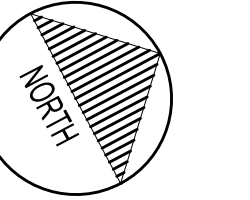
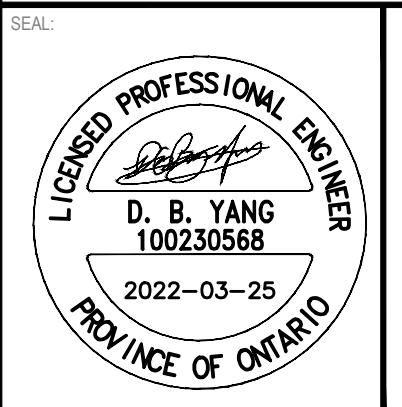
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CLIENT REF # --

PROJECT:

415 LEGGET DRIVE
ACCESS STORAGE



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2	2022/03/18	REVISED AS PER CITY COMMENTS
1	2021/10/25	ISSUED FOR SPCA

IS	RE	DATE	DESCRIPTION

PROJECT NO: 219-00058-03 DATE: MARCH 2018

ORIGINAL SCALE: AS SHOWN IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.

DESIGNED BY: D.Y.

DRAWN BY: J.T.

CHECKED BY: D.Y.

DISCIPLINE: CIVIL

TITLE: SECTIONS

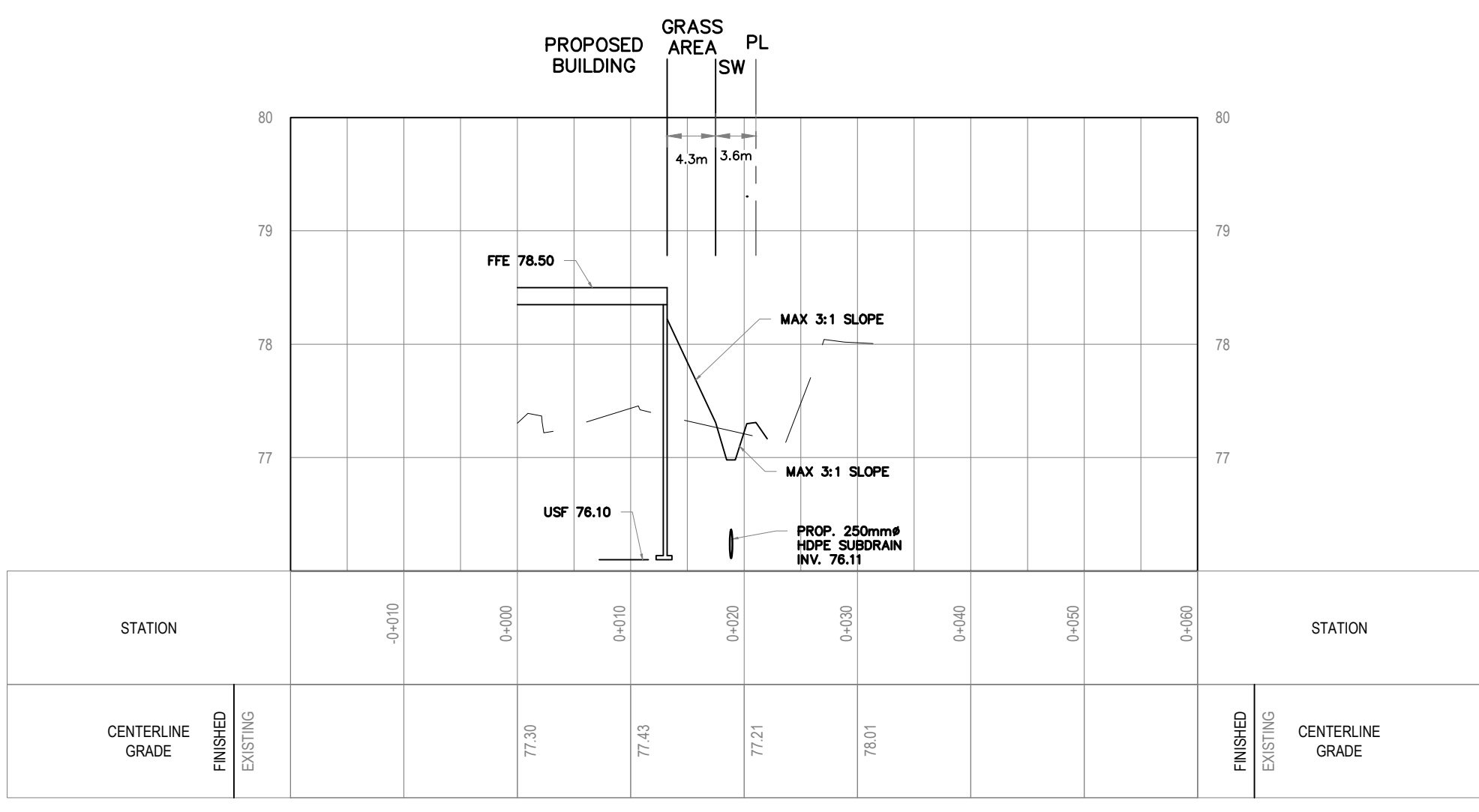
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SHEET # 8 OF 8

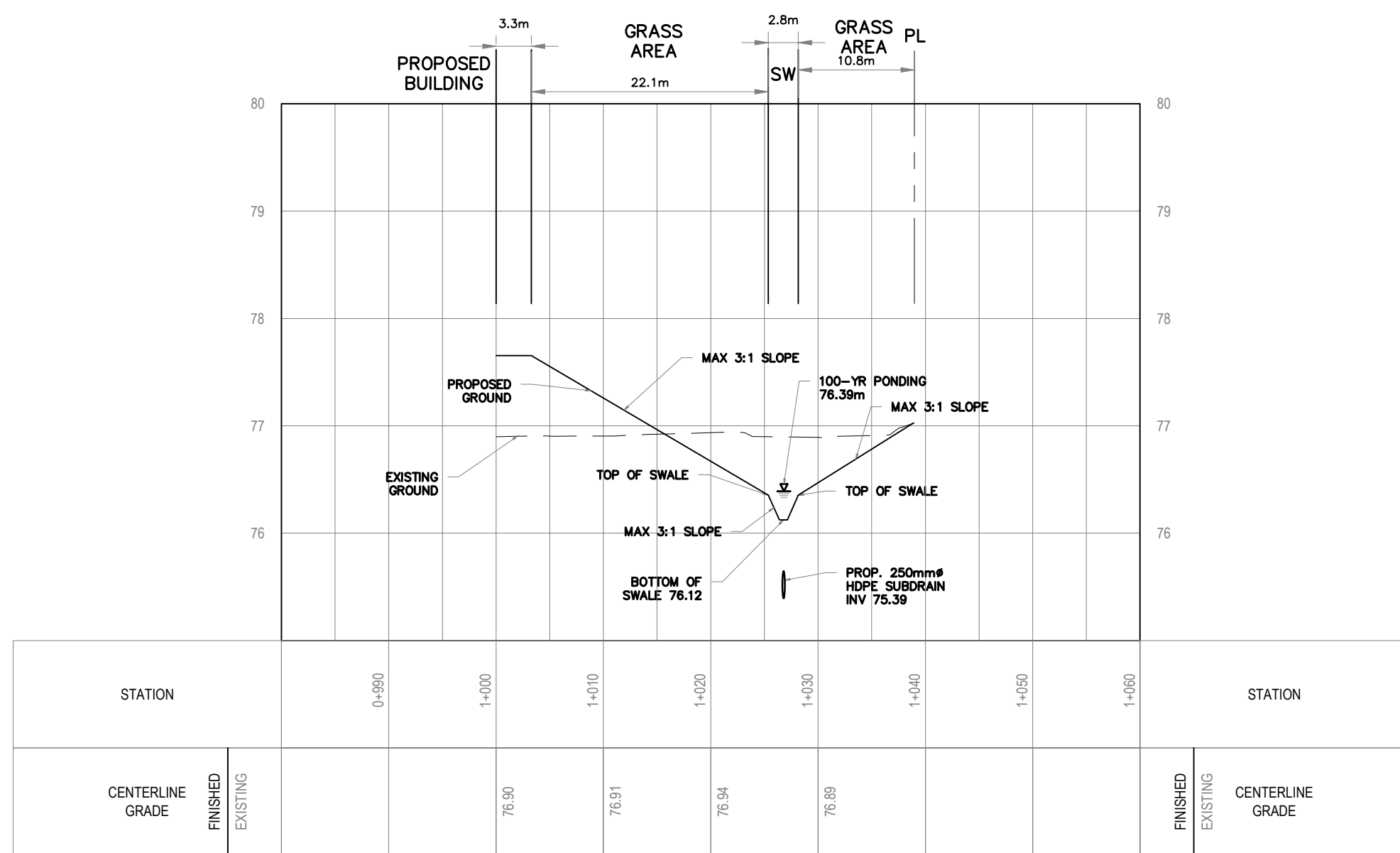
ISSUE: REVISED AS PER CITY COMMENTS

DATE OF: 2022/03/18

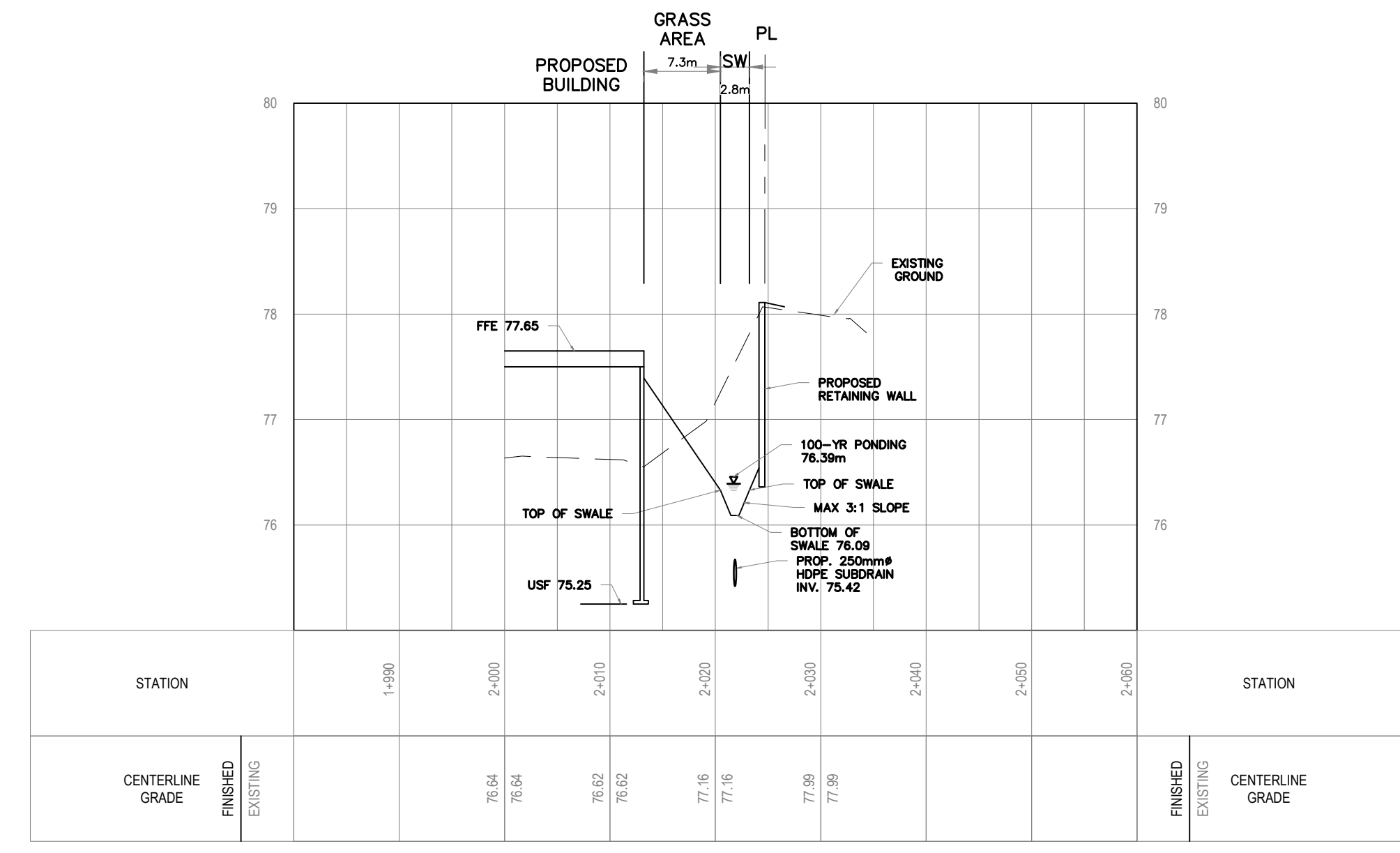
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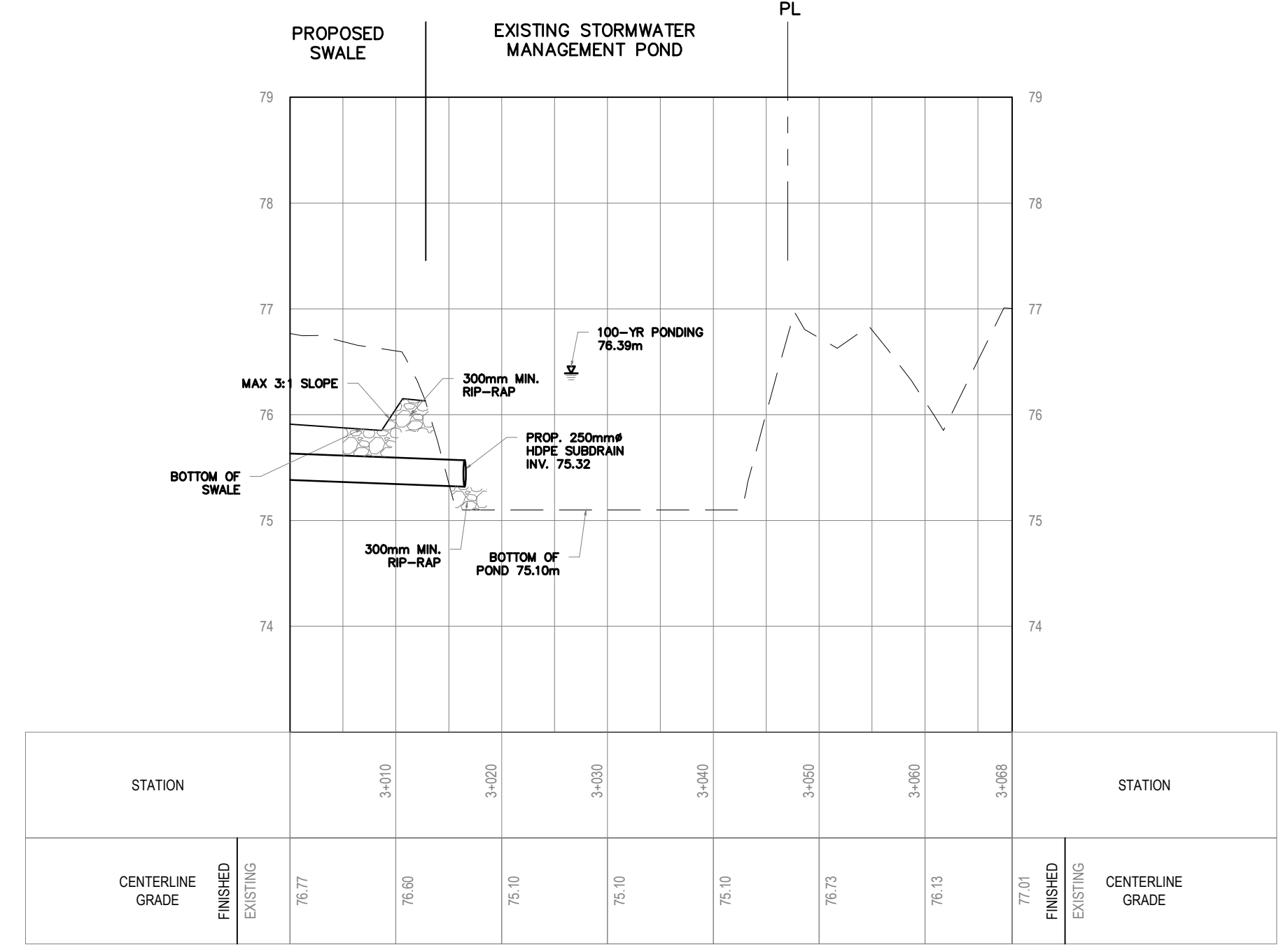
CROSS SECTION A-A
HOR 1:500
VER 1:50



CROSS SECTION B-B
HOR 1:500
VER 1:50



CROSS SECTION C-C
HOR 1:500
VER 1:50



CROSS SECTION D-D
HOR 1:500
VER 1:50

V:\10-11-2017\10058-03-115 Legget Drive\3-Dimens\Drawings\c07.dwg, Plot Date: 2022-03-18 10:00:00 AM