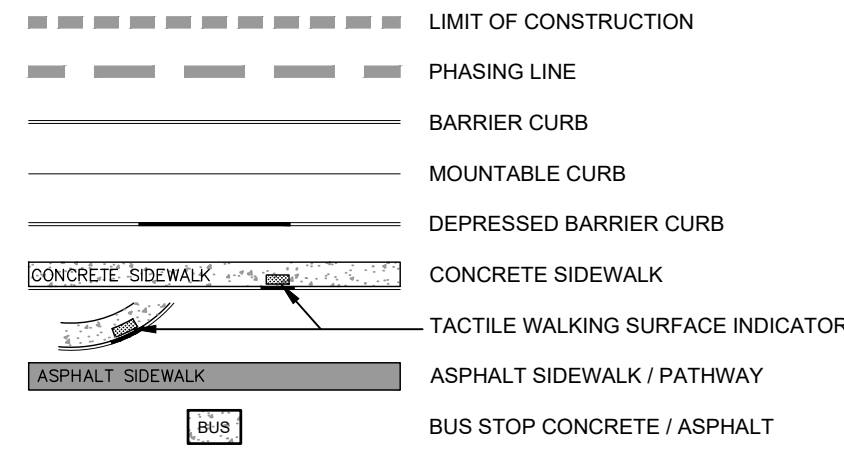


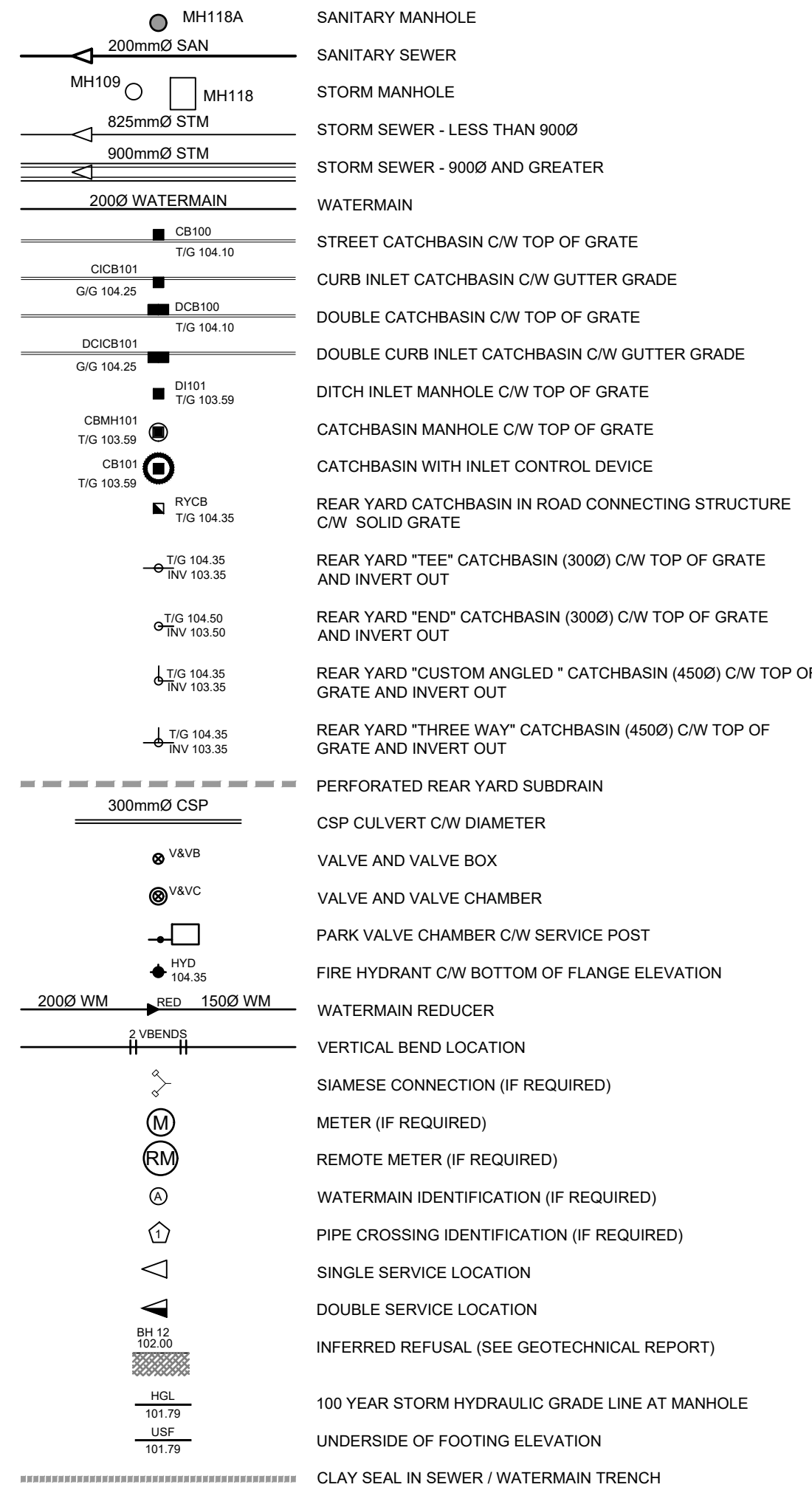




**GENERAL LEGEND**



**SERVICING LEGEND**



**CATCHBASIN/CATCHBASIN MANHOLE/DITCH INLET DATA**

STRUCTURE ID	STORM AREA ID	STRUCTURE	FRAME & COVER	ELEVATION		OUTLET PIPE		INLET CONTROL DEVICE			COMMENTS	
				TOP OF GRATE	INVERT	DIAMETER (mm)	TYPE	100yr Dynamic HEAD (ft)	RESTRICTED FLOW (l/s)	ICD TYPE		ORIFICE SIZE (mm dia.)
CB4	S4	OPSD 705 010	S19	102.13	100.73	200	PVC DR35	1.400	20.00	IPEXHF	90	
CB5	S5	OPSD 705 010	S19	102.03	100.83	200	PVC DR35	1.400	25.00	IPEXHF	89	
CB6	S6	OPSD 705 010	S19	101.88	100.48	200	PVC DR35	1.520	50.00	IPEXHF	123	
CB9	S10	OPSD 705 010	S19	101.27	99.87	200	PVC DR35	1.360	18.50	IPEXHF	75	
CB9A	S10	OPSD 705 010	S19	101.27	99.87	200	PVC DR35	1.360	18.50	IPEXHF	75	
CB20	S20A	OPSD 705 010	S19	102.15	100.75	200	PVC DR35	1.540	15.00	IPEXHF	75	
CB20A	S20B	OPSD 705 010	S19	102.37	100.97	200	PVC DR35	1.400	10.00	IPEXHF	75	
RYCB7	RB	OPSD 705 010	S19	101.30	99.85	250	PVC DR35	1.400	20.00	IPEXHF	79	

**NOTES :**

- ALL MATERIALS AND CONSTRUCTION IS TO BE IN ACCORDANCE WITH THE CURRENT CITY OF OTTAWA STANDARD DRAWINGS & SPECIFICATIONS OR OPS/OPSS IF CITY DRAWINGS AND SPECIFICATIONS DO NOT APPLY.
- THE POSITION OF UNDERGROUND AND ABOVEGROUND SERVICE, UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH SERVICE, UTILITIES AND STRUCTURES IS NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING SERVICES AND UTILITIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL REPORT ALL CONFLICTS, DISCOVERIES OF ERROR AND DISCREPANCIES TO THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT AND ASSUME RESPONSIBILITY FOR ALL UTILITIES WHETHER OR NOT SHOWN ON THESE DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL LANDS BEYOND THE SITE LIMITS. ANY AREAS BEYOND THE SITE LIMITS, WHICH ARE DISTURBED DURING CONSTRUCTION, SHALL BE REPAIRED AND RESTORED TO ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF THE ADJACENT LAND OWNER, THE OWNER, THE OWNERS REPRESENTATIVES AND/OR THE AUTHORITY HAVING JURISDICTION AT THE EXPENSE OF THE CONTRACTOR.
- WHERE NECESSARY, THE CONTRACTOR SHALL IMPLEMENT A TRAFFIC MANAGEMENT PLAN TO THE SATISFACTION OF THE CITY OF OTTAWA. ALL CONSTRUCTION SIGNAGE MUST CONFORM TO THE LATEST VERSION OF THE M.T.O. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. ALL TEMPORARY TRAFFIC CONTROL MEASURES MUST BE REMOVED UPON THE COMPLETION OF THE WORKS.
- SHOULD ANY BURIED ARCHAEOLOGICAL REMAINS BE FOUND ON THE PROPERTY DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL NOTIFY THE OWNER TO CONTACT THE HERITAGE OPERATIONS UNIT OF THE ONTARIO MINISTRY OF CULTURE. WORK MUST BE NOTIFIED IMMEDIATE, AND WORK WITHIN THE AREA SHALL BE CEASED UNTIL FURTHER NOTICE.
- FOR GEOTECHNICAL INFORMATION REFER TO GEOTECHNICAL REPORT NO. 2042530-1000 "GEOTECHNICAL INVESTIGATION BARRETT LANDS-PHASE 3, LEITRIM DEVELOPMENT AREA, 100 LEITRIM ROAD, OTTAWA, ONTARIO", DATED FEBRUARY 2022, PREPARED BY GOLDER ASSOCIATES.
- FOR GEODETIC BENCHMARK AND GEOMETRIC LAYOUT OF STREET AND LOTS, REFER TO TOPOGRAPHICAL SURVEY AND PLAN OF SUBDIVISION PREPARED BY STANTEC GEOMATICS. BENCHMARK BASED ON CAN-NET VIRTUAL REFERENCE SYSTEM NETWORK.
- FOR SITE PLAN INFORMATION, REFER TO SITE PLAN PREPARED BY TAMARACK HOMES.
- THESE DRAWINGS ARE NOT TO BE SCALED OR USED FOR LAYOUT PURPOSES.
- ROADWAY SECTIONS REQUIRING GRADE RAISE TO PROPOSED SUB GRADE LEVEL TO BE FILLED WITH ACCEPTABLE NATIVE EARTH BORROW OR IMPORTED OPSS SELECTED SUBGRADE MATERIAL IF NATIVE MATERIAL IS DEFICIENT AS PER RECOMMENDATION OF GEOTECHNICAL ENGINEER.
- IN AREAS WHERE EXISTING GROUND IS BELOW THE PROPOSED ELEVATION OF SEWER AND WATERMANS, GRADE RAISING AND FILLING IS TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. AS PER CITY GUIDELINES ALL WATERMANS IN FILL AREAS ARE TO BE TIED WITH RESTRAINING JOINTS AND THRUST BLOCKS.
- REFER TO DRAWING 011 FOR ROADWAY CROSS SECTIONS (IF APPLICABLE).
- THE CONTRACTOR SHALL IMPLEMENT THE EROSION AND SEDIMENT CONTROL PLAN PRIOR TO THE COMMENCEMENT OF ANY SITE CONSTRUCTION. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED TO THE SATISFACTION OF THE ENGINEER, OR ANY REGULATORY AGENCY. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED OR UNTIL THE START OF A SUBSEQUENT PHASE.
- CONTRACTORS SHALL BE RESPONSIBLE FOR KEEPING CLEAN ALL ROADS WHICH BECOME COVERED IN DUST, DEBRIS AND/OR MUD AS A RESULT OF ITS CONSTRUCTION OPERATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL BEDDING OR ADDITIONAL STRENGTH PIPE SHOULD THE MAXIMUM OPSD TRENCH WIDTH BE EXCEEDED.
- ALL PIPE, CULVERTS, STRUCTURES REFER TO NOMINAL INSIDE DIMENSIONS.
- CLAY SEALS, 1.5m WIDE TO BE INSTALLED AT 100m INTERVALS AS RECOMMENDED IN THE GEOTECHNICAL REPORT (BARRETT LANDS PHASE 3).
- UNLESS SPECIFICALLY NOTED OTHERWISE, PIPE MATERIALS SHALL BE AS FOLLOWS:  
-WATERMANS TO BE PVC DR18  
-SANITARY SEWER TO BE PVC DR35  
-PERFORATED STORM SEWERS IN REAR YARDS AND LANDSCAPE AREAS TO BE HDPE  
-STORM SEWERS 375MM DIAMETER AND LESS TO BE PVC DR35  
-STORM SEWERS 450MM DIAMETER AND GREATER TO BE CONCRETE, CLASS AS PER OPSD 807.010 OR 807.030, OR HIGHER
- ALL CONNECTIONS TO EXISTING WATERMANS ARE TO BE COMPLETED BY CITY FORCES. CONTRACTOR IS TO EXCAVATE, BACKFILL, COMPACT AND REINSTATE.
- ANY WATERMAIN WITH LESS THAN 2.4M, AND ANY SEWER WITH LESS THAN 2.0M DEPTH OF COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR AS APPROVED BY THE ENGINEER.
- FOR WATERMAIN THRUST RESTRAINT RECOMMENDATIONS, PLEASE REFER TO SECTION 4.2 OF THE GEOTECHNICAL REPORT.
- ALL STUBBED SEWERS SHALL HAVE PRE-MANUFACTURED CAPS INSTALLED.
- ALL CATCHBASINS SHALL HAVE A 600MM SUMP. ALL CATCHBASIN MANHOLES, AND ALL STORM MANHOLES WITH OUTLETTING PIPE SIZES LESS THAN 900MM, SHALL HAVE A 300MM SUMP.
- ALL SANITARY MANHOLES SHALL BE EQUIPPED WITH A WATERTIGHT COVER.
- ALL LEADS FOR STREET CATCHBASINS AND CURB INLET CATCHBASINS CONNECTED TO MAIN SHALL BE 200MM PVC DR35 @ MIN 2% SLOPE UNLESS NOTED OTHERWISE. ALL LEADS FOR RYCB'S CONNECTED TO MAIN SHALL BE 200MM PVC DR35 @ MIN 1% SLOPE UNLESS NOTED OTHERWISE.
- UNLESS SPECIFICALLY NOTED OTHERWISE, ALL STREET CATCHBASINS SHALL BE INSTALLED WITH TWO - 3.0M MINIMUM SUBDRAINS INSTALLED LONGITUDINALLY, PARALLEL WITH THE CURB. ALL CATCHBASINS IN ASPHALT AREAS, NOT ADJACENT TO A CURB, SHALL BE INSTALLED WITH FOUR - 3.0M MINIMUM SUBDRAINS INSTALLED ORTHOGONALLY.
- INLET CONTROL DEVICES SHALL BE INSTALLED PRIOR TO COMPLETING THE ROAD BASE (GRANULAR A).
- ALL SEWER SERVICE LATERALS WITH MAINLINE CONNECTIONS DEEPER THAN 5.0M REQUIRE A CONTROLLED SETTLEMENT JOINT.
- EACH BUILDING SHALL BE EQUIPPED WITH A SANITARY AND STORM SEWER BACKWATER VALVE AND CLEAN-OUT ON ITS PRIMARY SERVICE, AS PER ONTARIO BUILDING CODE REQUIREMENTS (BY OTHERS).
- THE HGL PROVIDED IS BASED ON HYDRAULIC MODELING COMPLETED USING THE 100 YEAR MODIFIED RATIONAL METHOD.
- THE SUBGRADE OF ALL STRUCTURES, PIPE, ROADS, SIDEWALKS, WALKWAYS, AND BUILDINGS SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- TOP COURSE ASPHALT SHALL NOT BE PLACED UNTIL THE FINAL CCTV INSPECTION AND NECESSARY REPAIRS HAVE BEEN COMPLETED TO THE SATISFACTION OF THE ENGINEER AND THE CITY OF OTTAWA.
- ALL RETAINING WALLS GREATER THAN 1.0M IN HEIGHT SHALL BE DESIGNED BY A QUALIFIED STRUCTURAL ENGINEER.
- ALL RETAINING WALLS GREATER THAN 0.6M IN HEIGHT REQUIRE A GUARD. ANY GUARD ON A RETAINING WALL GREATER THAN 1.0M IN HEIGHT SHALL BE DESIGNED BY THE QUALIFIED STRUCTURAL ENGINEER RESPONSIBLE FOR THE WALL DESIGN.
- UPON COMPLETION OF THE RETAINING WALL, THE CONTRACTOR SHALL REQUEST A CONFORMANCE CERTIFICATE FROM THE QUALIFIED ENGINEER RESPONSIBLE FOR THE WALL DESIGN.

**ROADWAY STRUCTURE:**

LOCAL ROAD : (690mm)	
40mm	- SUPERPAVE 12.5 ASPHALTIC CONCRETE
50mm	- SUPERPAVE 19.0 ASPHALTIC CONCRETE
150mm	- OPSS GRANULAR "A" CRUSHED STONE
450mm	- OPSS GRANULAR "B" TYPE II

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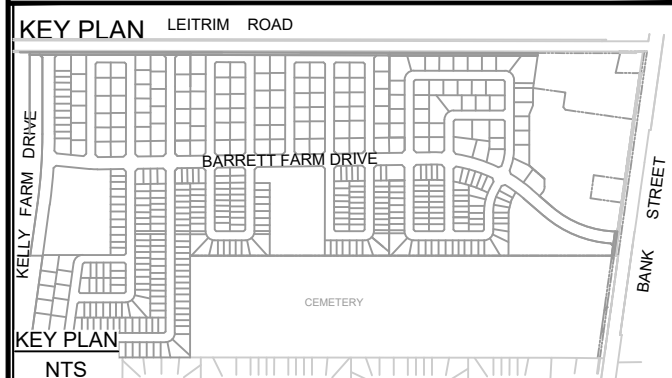
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No.	DESCRIPTION	DATE
1	SUBMISSION NO.1 FOR CITY REVIEW	2022-05-10
2	SUBMISSION NO.2 FOR CITY REVIEW	2022-11-25
3	SUBMISSION NO.3 FOR CITY REVIEW	2023-01-09
4		
5		
6		
7		
8		

SEE 010, 011 FOR NOTES, LEGEND, CB TABLE, STREET SECTIONS AND DETAILS



**CONSULTANTS**

**SEAL**



**IBI GROUP**  
Suite 400 - 333 Preston Street  
Ottawa ON K1S 5N4 Canada  
Tel: 613 225 1311 / 613 241 3300 Fax: 613 225 9868  
ibigroup.com

**PROJECT**

**BARRETT BLOCK 178**

PROJECT NO:  
**135925**

DRAWN BY:  
**M.M.**

CHECKED BY:  
**A.C.**

PROJECT MGR:  
**R.M.**

APPROVED BY:  
**J.I.M.**

**SHEET TITLE**

**NOTES LEGEND CB DATA**

SHEET NUMBER

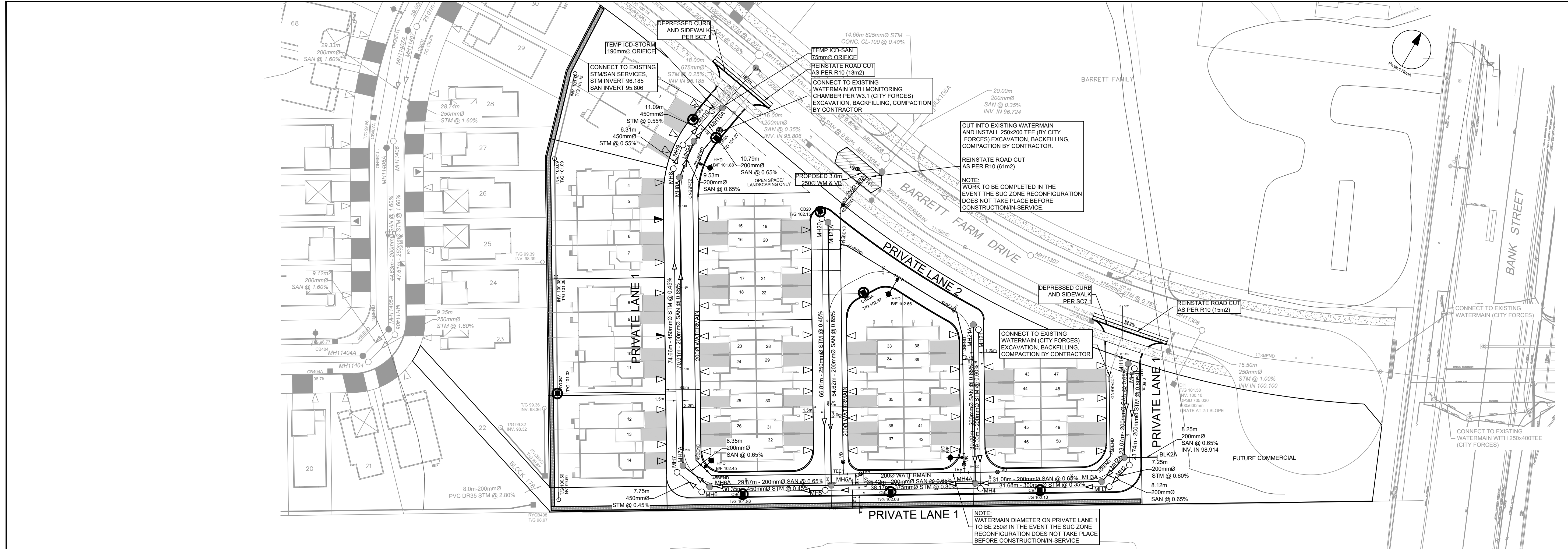
**010**

ISSUE

**3**







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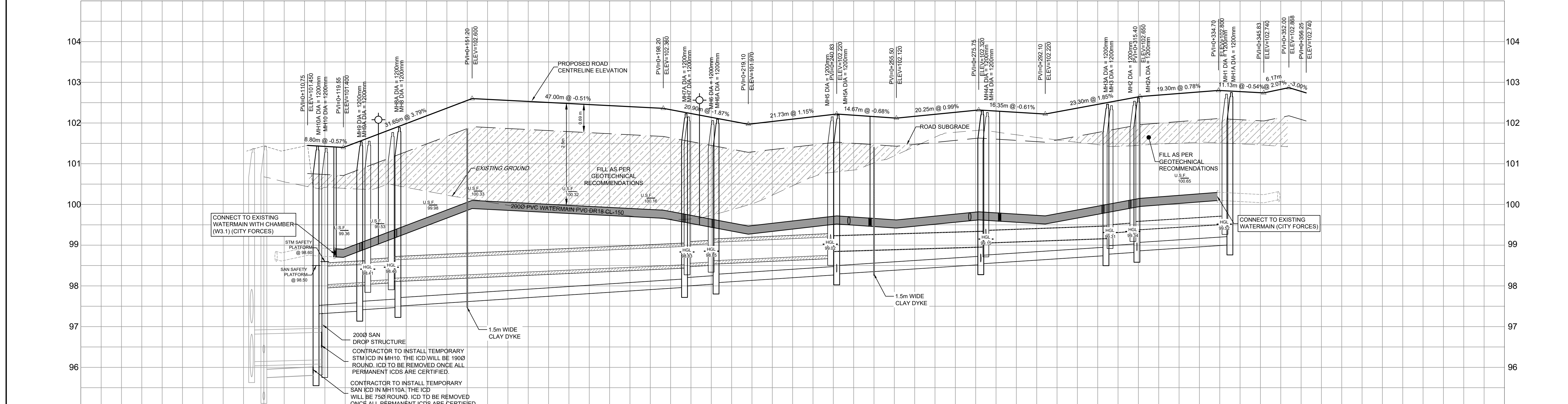
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	2	SUBMISSION NO 2 FOR CITY REVIEW	2022-11-25
	3	SUBMISSION NO 3 FOR CITY REVIEW	2023-01-09
	4	ADD WM CONNECTION AND NOTES	2023-02-22
	5		
	6		
	7		
	8		

SEE 010, 011 FOR NOTES, LEGEND, CB TABLE, STREET SECTIONS AND DETAILS

**KEY PLAN** LEITRIM ROAD

**KEY PLAN** NTS

**CONSULTANTS**



H 1:500.0  
 V 1:50.0

SCALE

**SEAL**

**IBI GROUP**  
 J.D. K. Yarnopoulos  
 2023/02/22  
 PROVINCE OF ONTARIO

**PROJECT**  
**BARRETT BLOCK 178**

ROAD GRADE	TOP OF WATERMAIN	STM SEWER INVERT	SAN SEWER INVERT	STATION	ROAD GRADE	TOP OF WATERMAIN	STM SEWER INVERT	SAN SEWER INVERT	STATION
101.450	98.812	98.038	97.314	0+100	102.175	99.675	98.121	97.478	0+140
102.360	99.860	98.522	97.791	0+200	102.453	99.853	98.597	98.617	0+220
102.220	99.720	98.258	97.781	0+300	102.120	99.620	98.342	97.781	0+280
102.366	99.866	98.258	97.781	0+320	102.164	99.664	98.342	97.781	0+300
102.650	100.150	98.165	97.181	0+340	102.800	100.295	98.151	97.181	0+340
102.686	100.185	98.165	97.181	0+360	102.771	100.265	98.151	97.181	0+360

**PROJECT**  
**BARRETT BLOCK 178**

**PROJECT NO:**  
 135925

**DRAWN BY:**  
 M.M.

**CHECKED BY:**  
 A.C.

**PROJECT MGR:**  
 R.M.

**APPROVED BY:**  
 J.I.M.

**SHEET TITLE**  
**PRIVATE LANE 1**

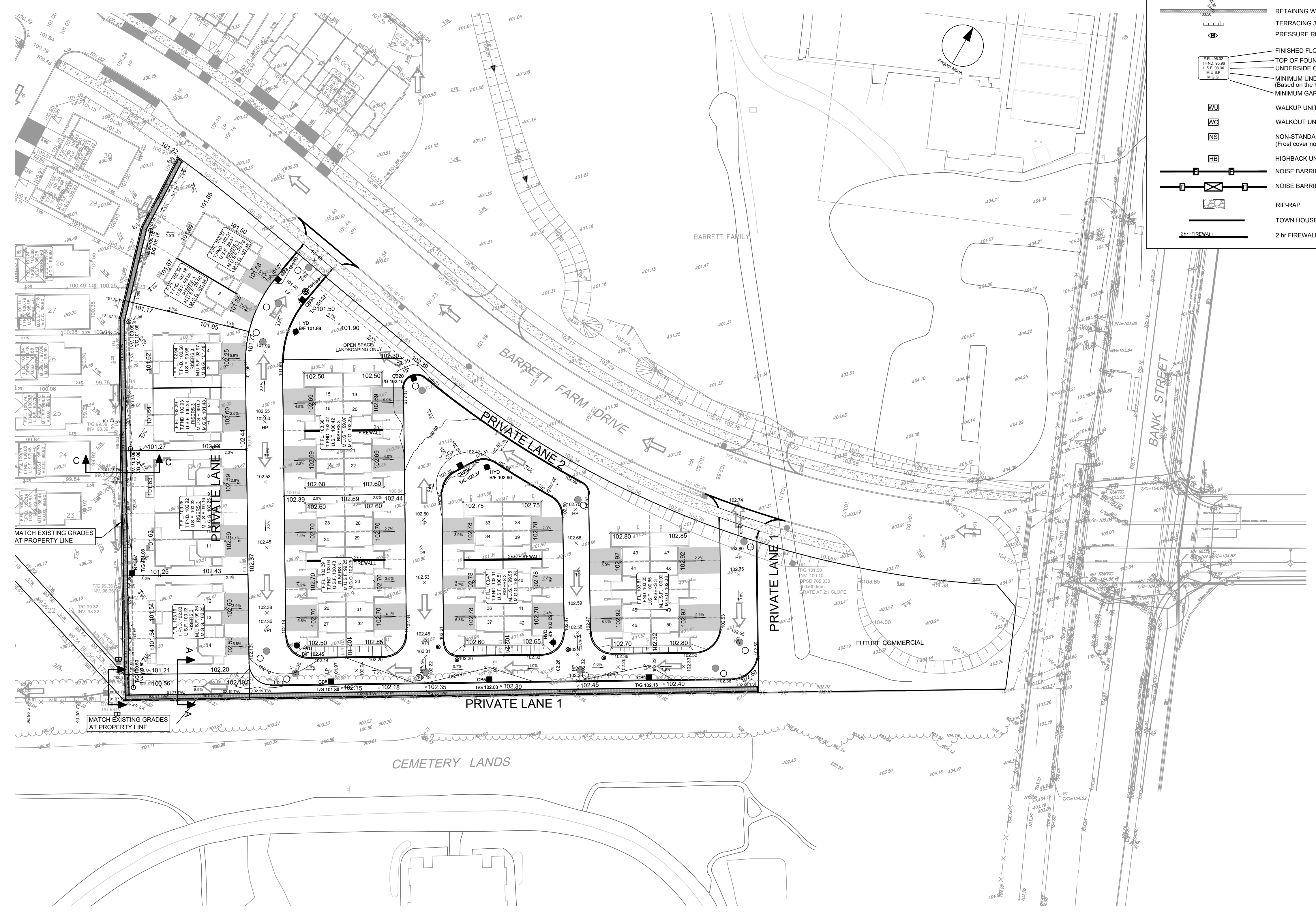
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**100**

**ISSUE**  
**4**

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### GRADING LEGEND

- PROPOSED DITCH CW FLOW DIRECTION AND SLOPE
- SLOPE CW FLOW DIRECTION
- MAJOR OVERLAND FLOW ROUTE
- PROPOSED SPOT GRADE
- PROPOSED SWALE GRADE
- PROPOSED SWALE HIGH POINT GRADE
- LOT CORNER GRADE CW EXISTING GRADE
- FULL STATIC PONDING GRADE
- RETAINING WALL CW TOP OF WALL AND GRASS GRADE
- TERRACING 3:1 MAXIMUM UNLESS NOTED OTHERWISE
- PRESSURE REDUCING VALVE
- FINISHED FLOOR ELEVATION
- TOP OF FOUNDATION ELEVATION
- UNDERSIDE OF FOOTING ELEVATION
- MINIMUM UNDERSIDE OF FOOTING (Based on the higher of the sewer overflows, or hydraulic grade line)
- MINIMUM GARAGE GRADE
- WALKUP UNIT
- WALKOUT UNIT
- NON-STANDARD FOUNDATION (Frost cover not provided for standard unit)
- HIGHBACK UNIT (1.5m frost cover on footings)
- NOISE BARRIER LOCATION
- NOISE BARRIER GATE
- RIP-RAP
- TOWN HOUSE SPLITS
- 2hr FIREWALL

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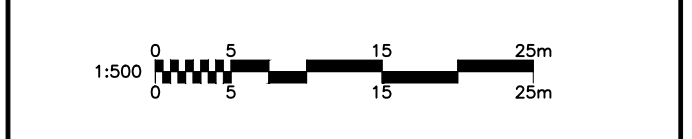
**ISSUES**

No.	DESCRIPTION	DATE
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3	SUBMISSION NO. 3 FOR CITY REVIEW	2023-01-09
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CONSULTANTS



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 ibigroup.com

**PROJECT**  
 BARRETT BLOCK 178

**PROJECT NO:**  
135925

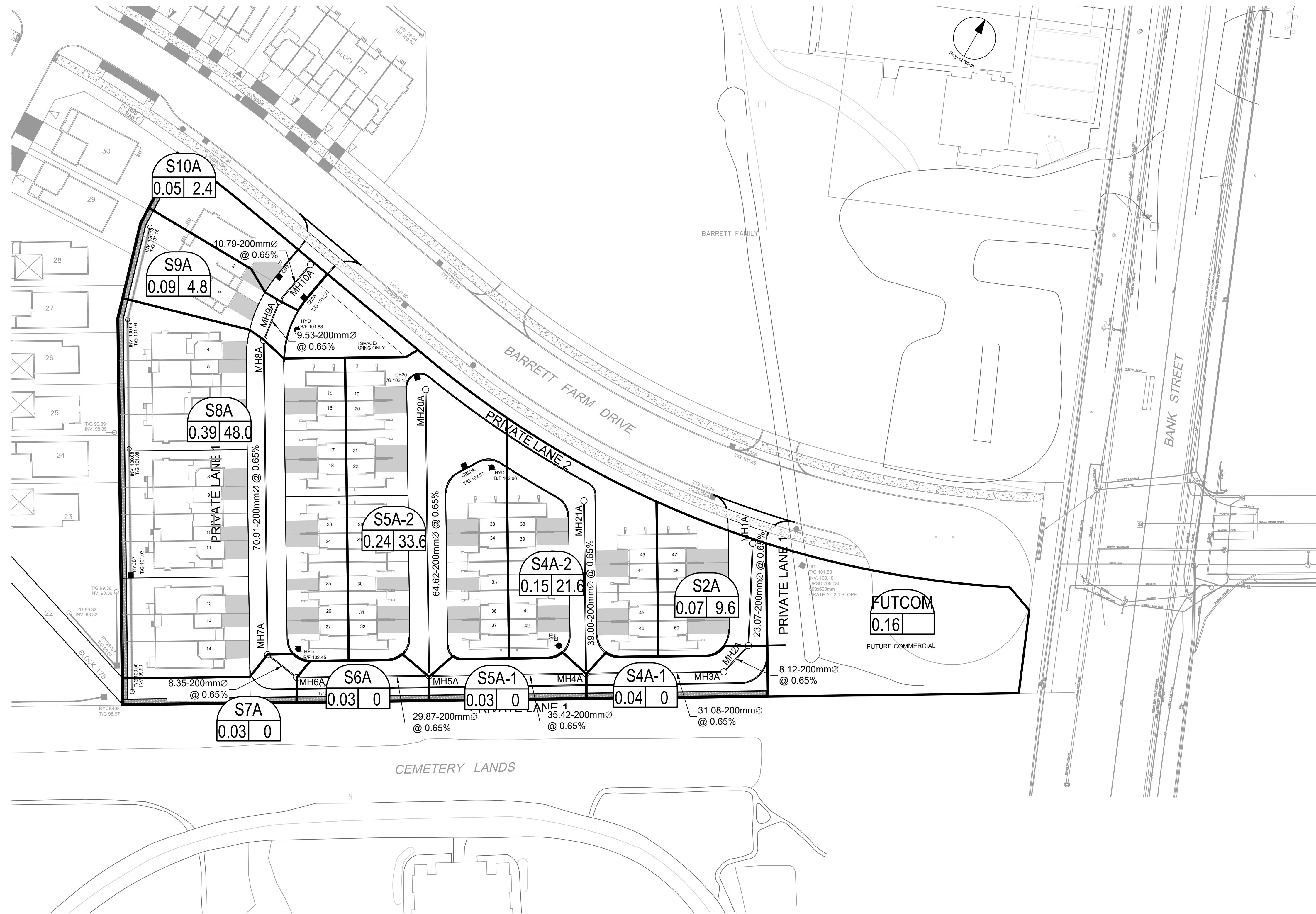
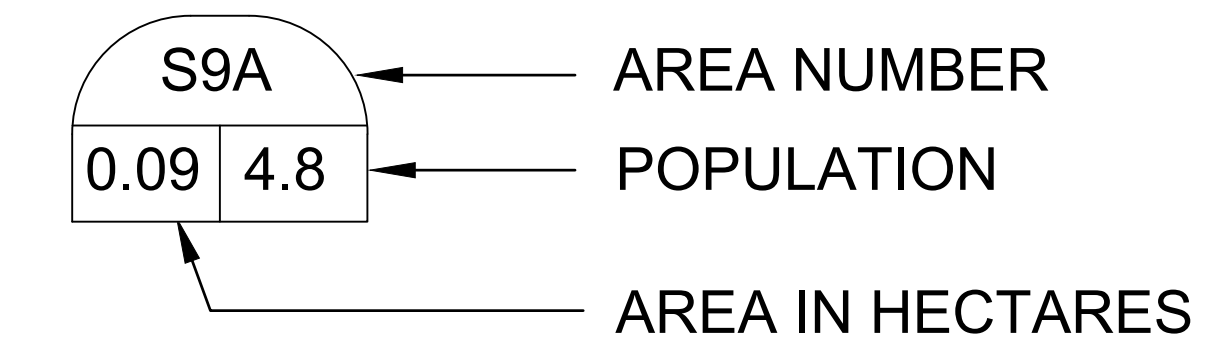
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<b>PROJECT MGR:</b> R.M.	<b>APPROVED BY:</b> J.I.M.

**SHEET TITLE**  
 GRADING PLAN

<b>SHEET NUMBER</b> 200	<b>ISSUE</b> 3
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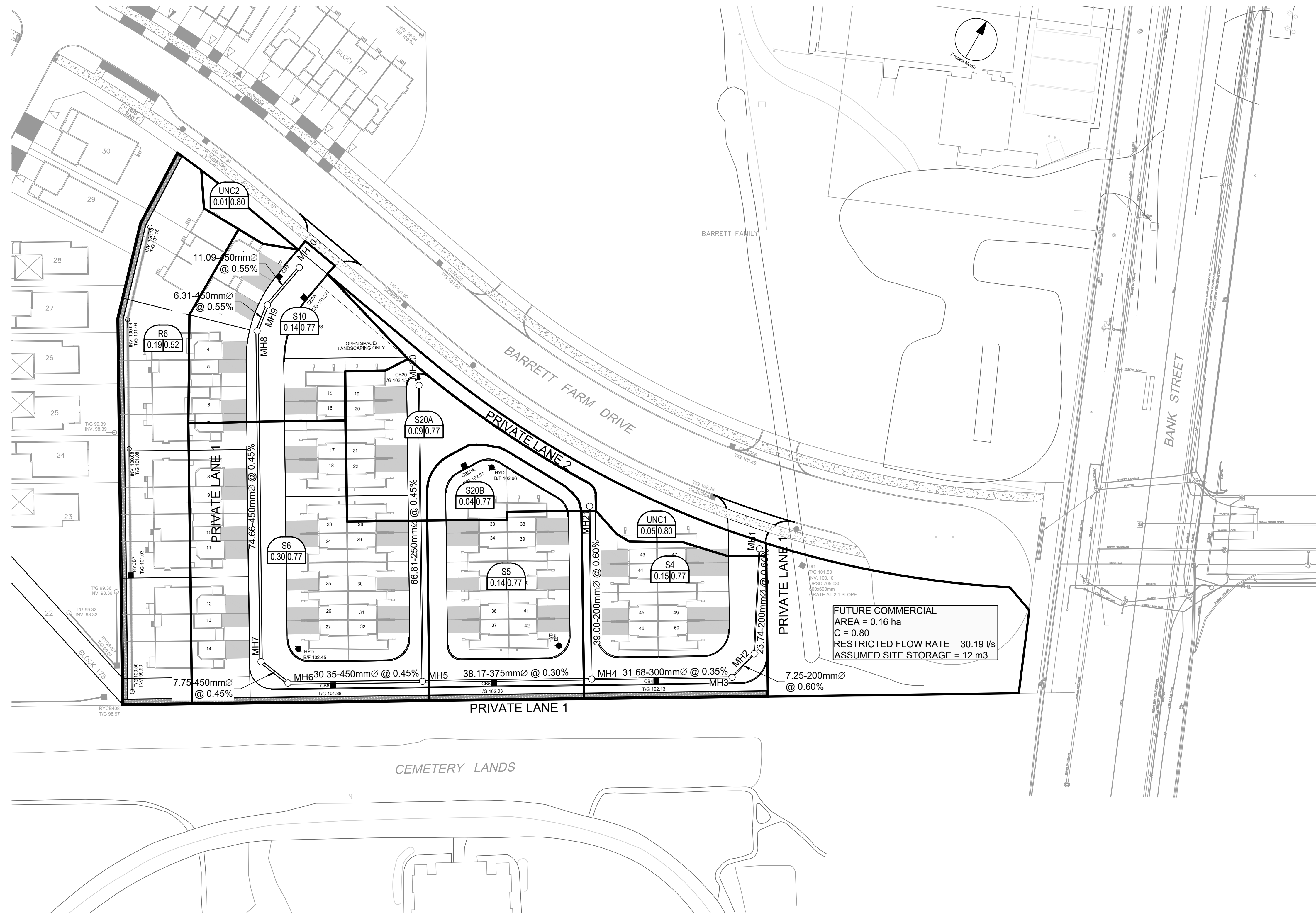
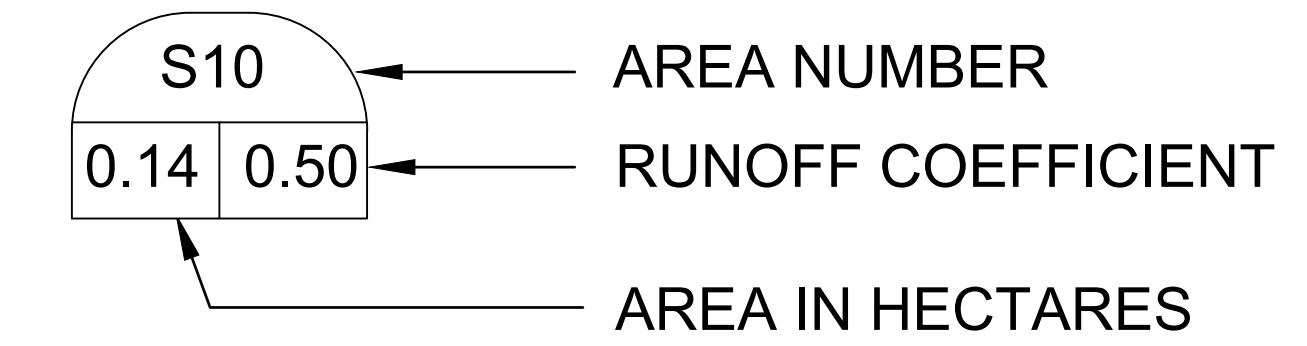


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3	SUBMISSION NO. 3 FOR CITY REVIEW 2023-01-09
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SEE 010, 011 FOR NOTES, LEGEND, CB TABLE, STREET SECTIONS AND DETAILS	
KEY PLAN LEITRIM ROAD BARRETT FARM DRIVE BANK STREET 400	
CONSULTANTS	
SEAL	
PROJECT BARRETT BLOCK 178	
PROJECT NO: 135925	
DRAWN BY: M.M.	CHECKED BY: A.C.
PROJECT MGR: R.M.	APPROVED BY: J.I.M.
SHEET TITLE SANITARY DRAINAGE AREA PLAN	
SHEET NUMBER 400	ISSUE 3

CITY FILE No. D07-12-22-0112  
SCALE CHECK  
File Location: J:\135925\_Barrett.andst.0\_Production\7\_03\_Design\04\_Civil\Sheet\400 SANITARY DRAINAGE AREA PLAN.dwg Last Saved: February 10, 2023, by rmmine Plot Date: Wednesday, February 22, 2023 11:24:55 AM by Marian Mline



**LEGEND :**



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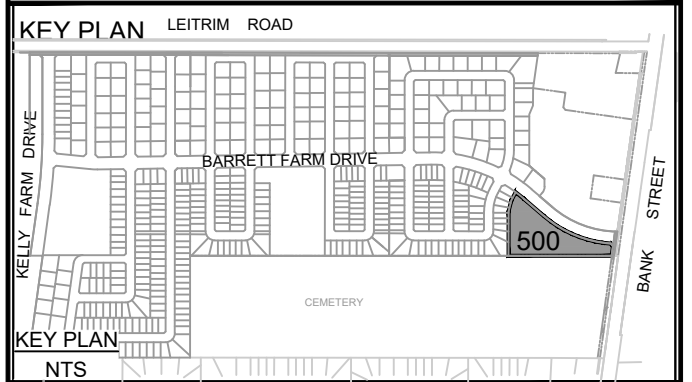
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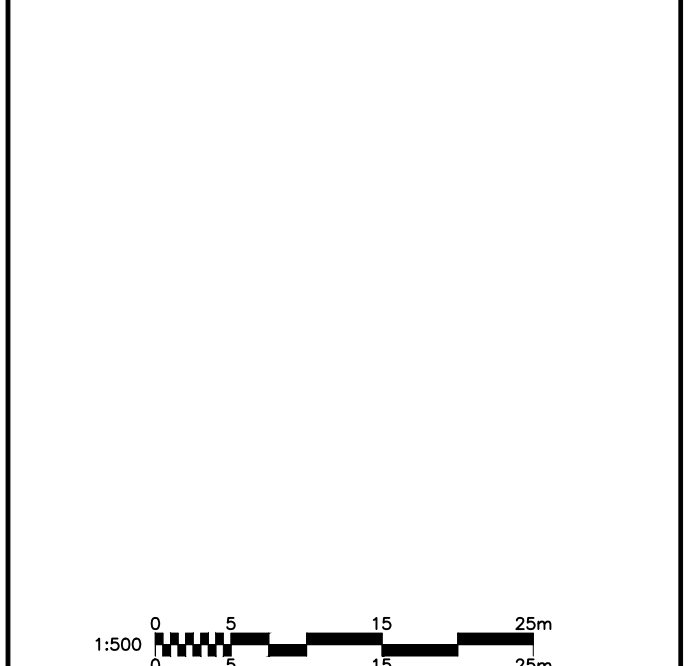
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**PROJECT**  
BARRETT BLOCK 178

**PROJECT NO:**  
135925

<b>DRAWN BY:</b> M.M.	<b>CHECKED BY:</b> A.C.
<b>PROJECT MGR:</b> R.M.	<b>APPROVED BY:</b> J.I.M.

**SHEET TITLE**  
STORM DRAINAGE AREA PLAN

<b>SHEET NUMBER</b> 500	<b>ISSUE</b> 3
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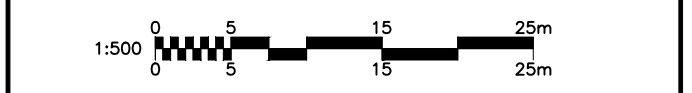
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PROJECT  
**BARRETT BLOCK 178**

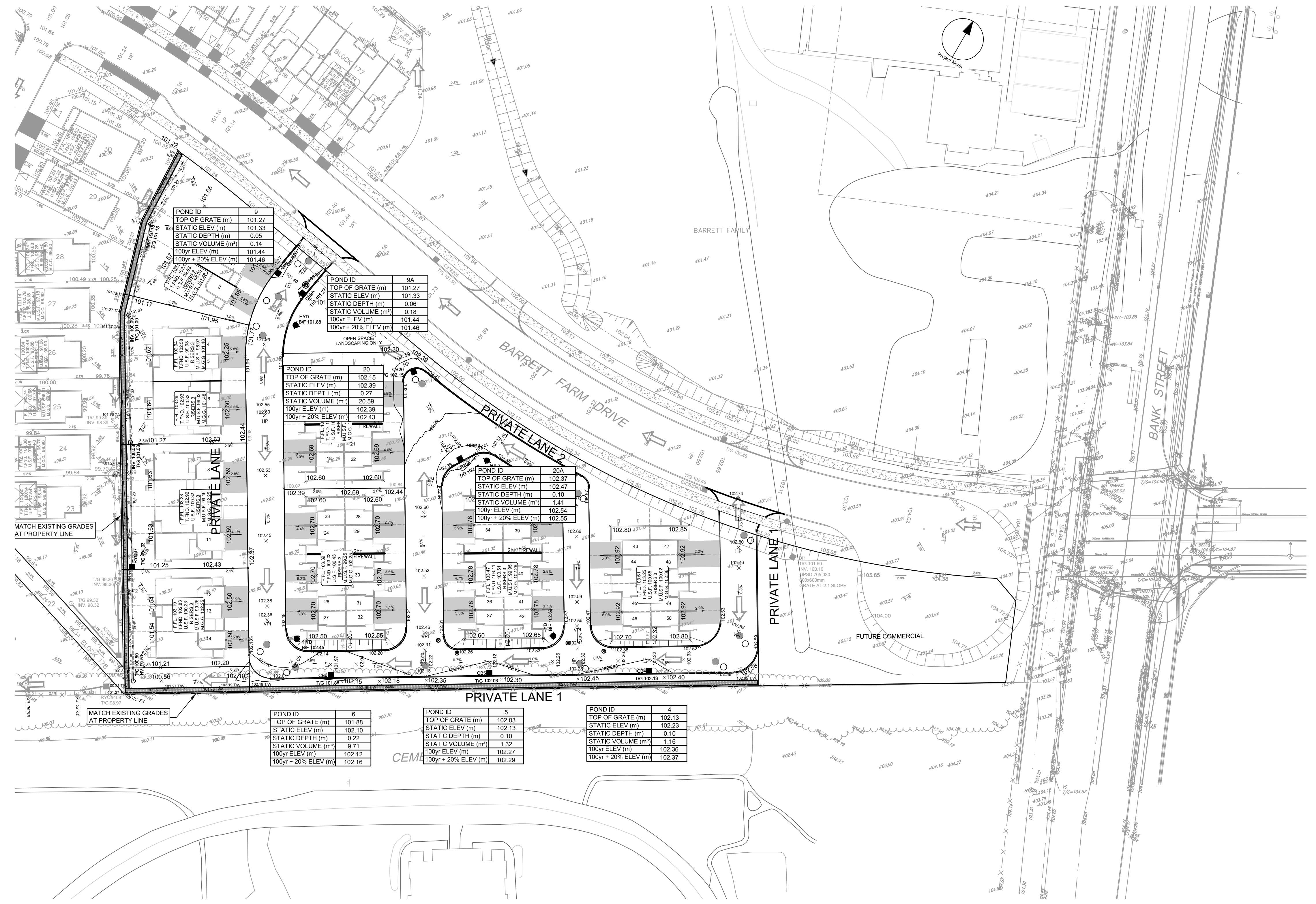
PROJECT NO:  
**135925**

DRAWN BY: **M.M.** CHECKED BY: **A.C.**

PROJECT MGR: **R.M.** APPROVED BY: **J.I.M.**

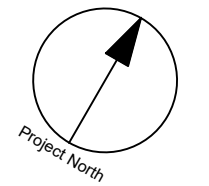
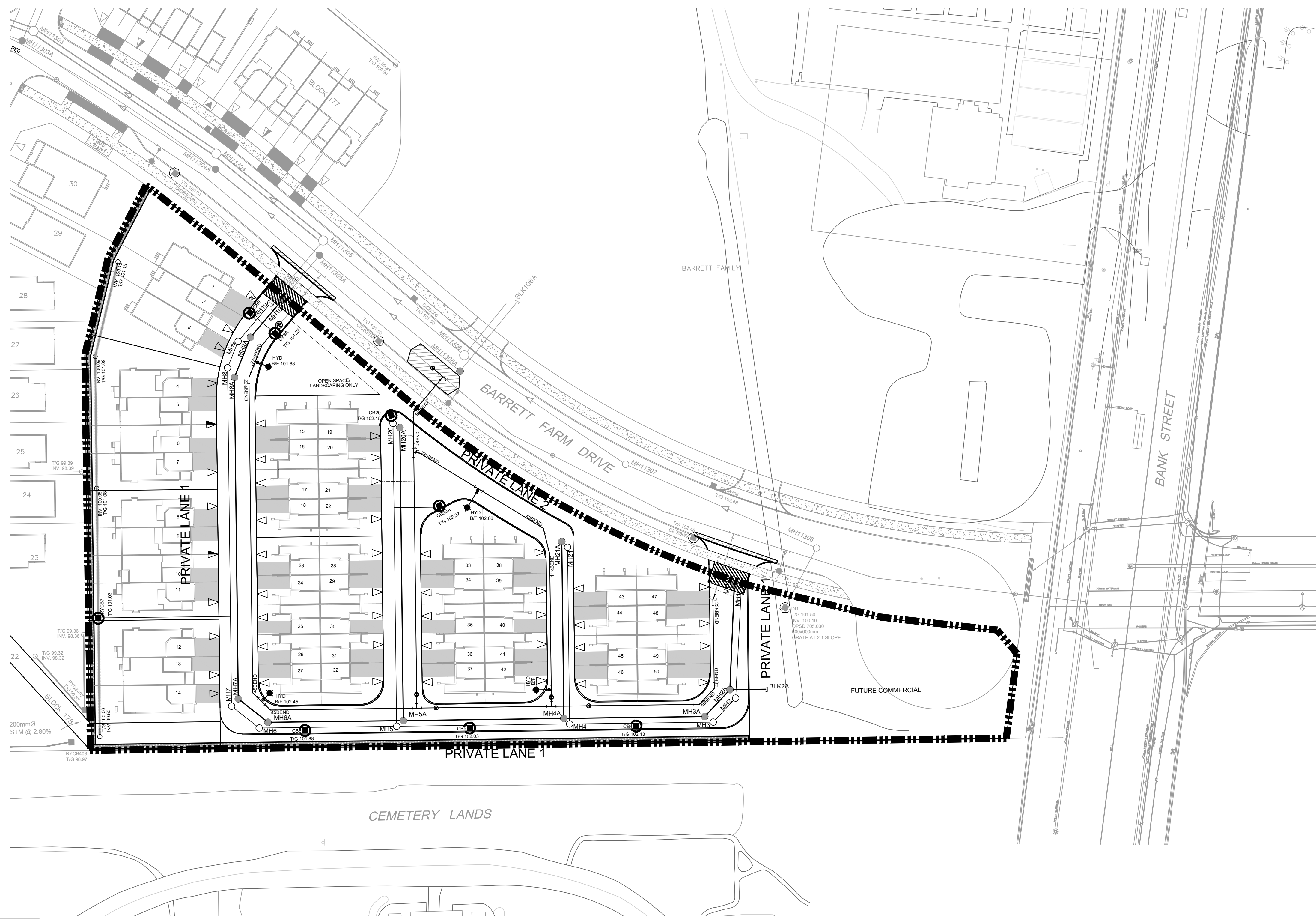
SHEET TITLE  
**PONDING PLAN**

SHEET NUMBER **600** ISSUE **3**



File Location: J:\135925\_Barrett\andst.0\_Production\17\_03\_Design\04\_Civil\Sheet\600\_PONDING PLAN.dwg Last Saved: February 10, 2023, by rmlme Printed: Wednesday, February 22, 2023 11:26:04 AM by Marian Mihre  
 SCALE CHECK  
 CITY FILE No. D07-12-22-0112  
 CITY PLAN No. 18826





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**BARRETT CO-TENANCY**

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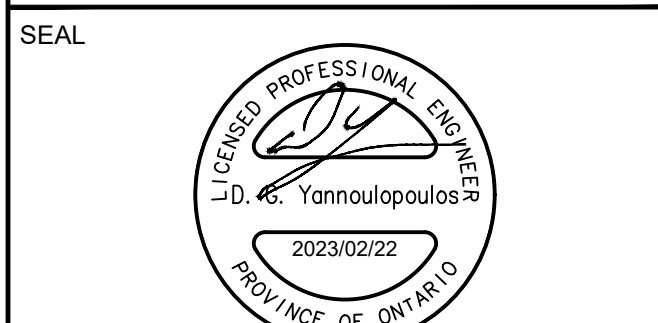
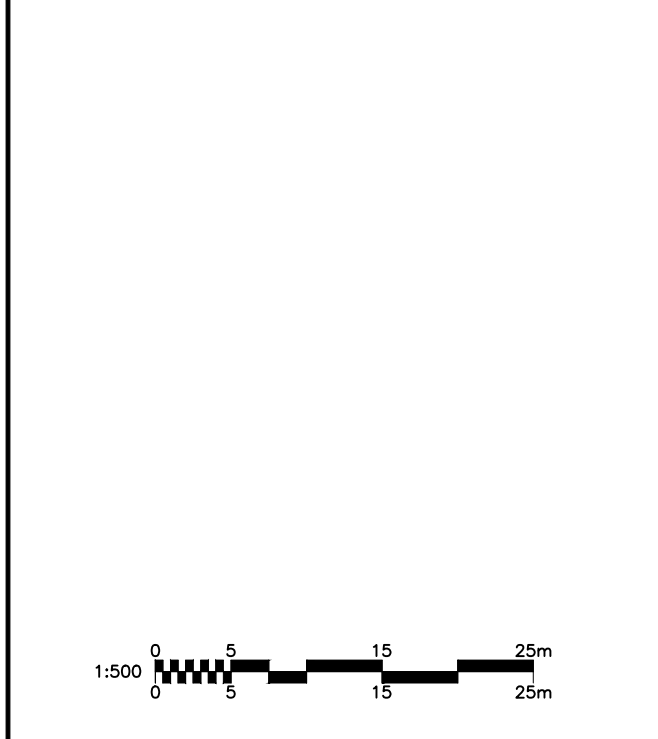
ISSUES

No.	DESCRIPTION	DATE
1	SUBMISSION NO. 1 FOR CITY REVIEW	2022-05-10
2	SUBMISSION NO. 2 FOR CITY REVIEW	2022-11-25
3	SUBMISSION NO. 3 FOR CITY REVIEW	2023-01-09
4	ADD WM CONNECTION AND NOTES	2023-02-22
5		
6		
7		
8		

SEE 010, 011 FOR NOTES, LEGEND, CB TABLE, STREET SECTIONS AND DETAILS



CONSULTANTS



PROJECT  
**BARRETT BLOCK 178**

PROJECT NO:  
135925

DRAWN BY:  
**M.M.**

CHECKED BY:  
**A.C.**

PROJECT MGR:  
**R.M.**

APPROVED BY:  
**J.I.M.**

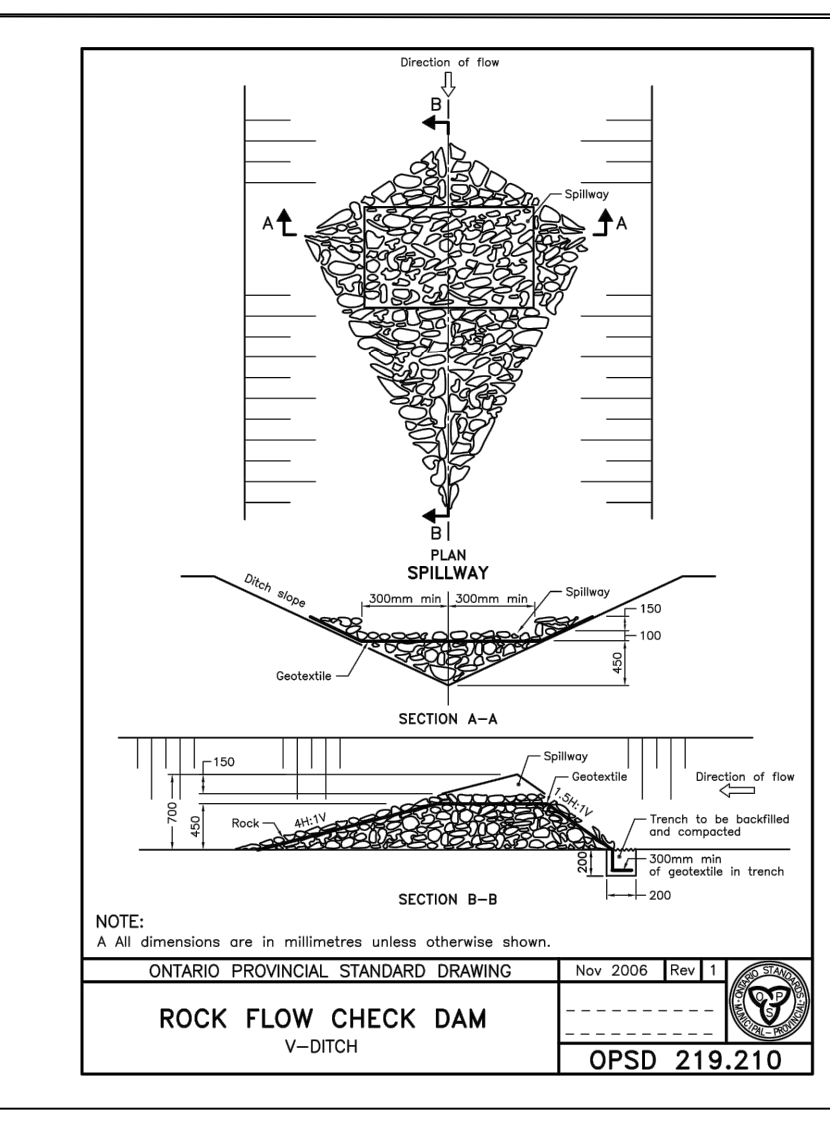
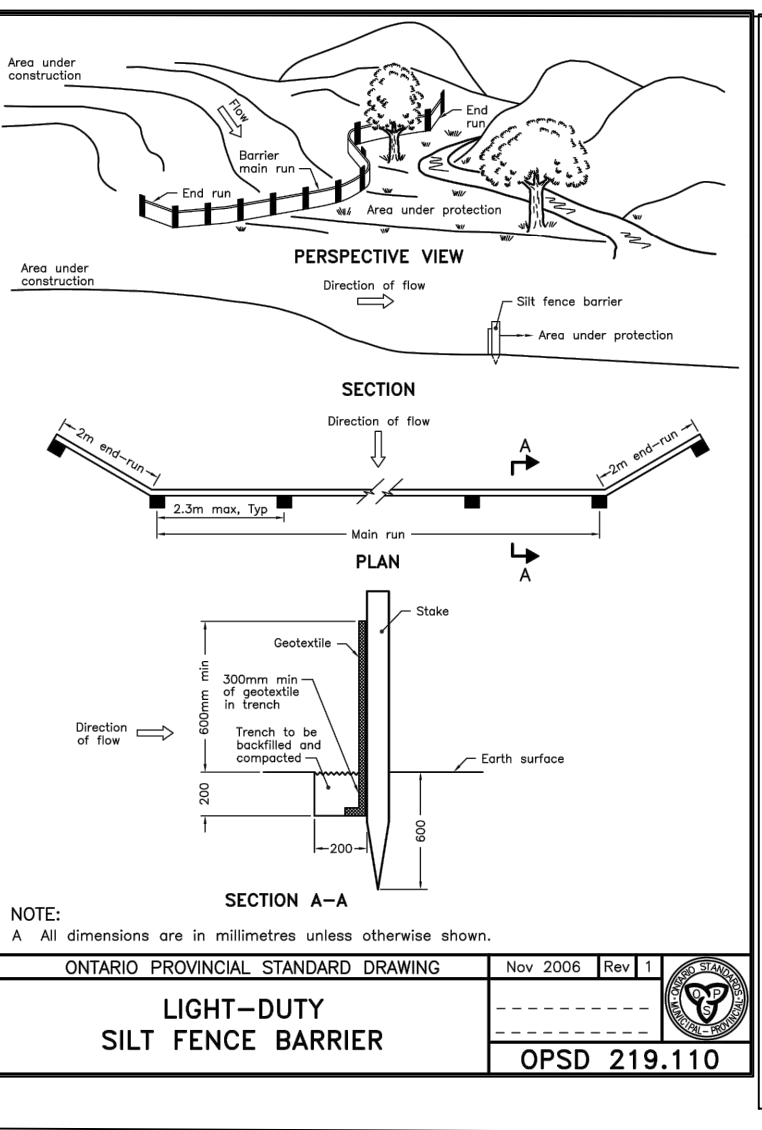
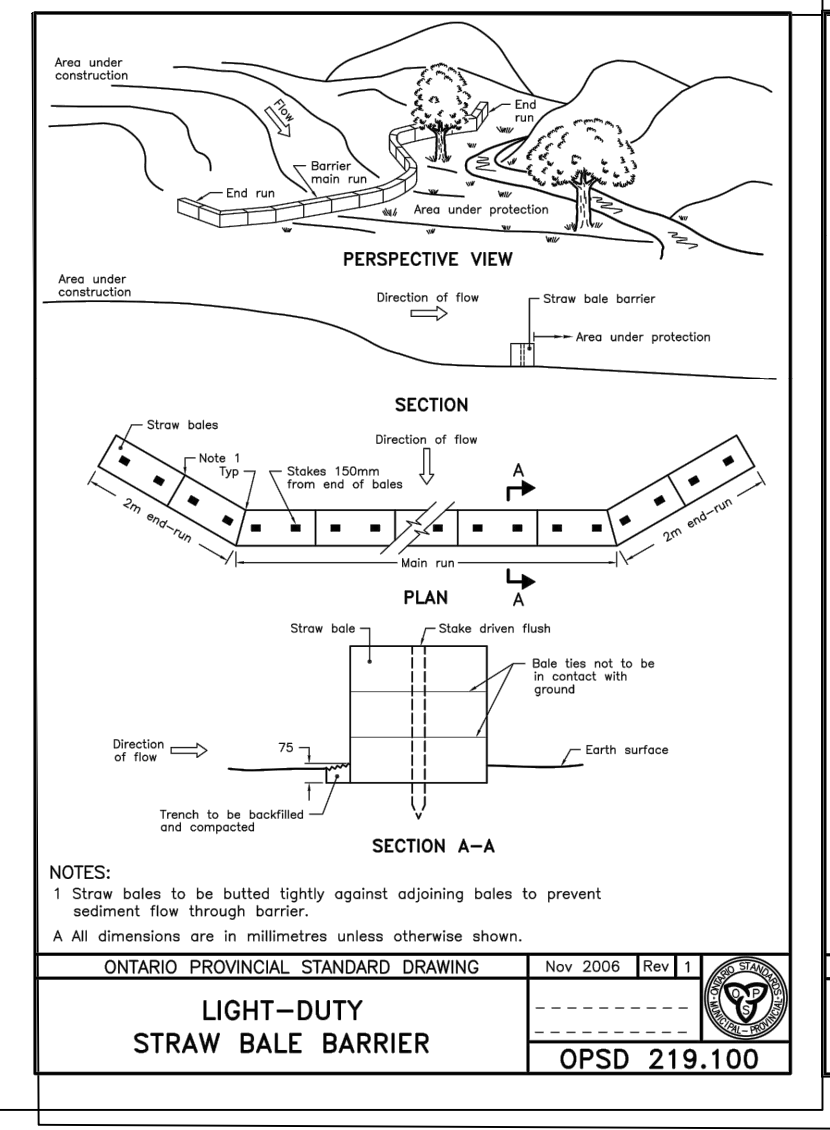
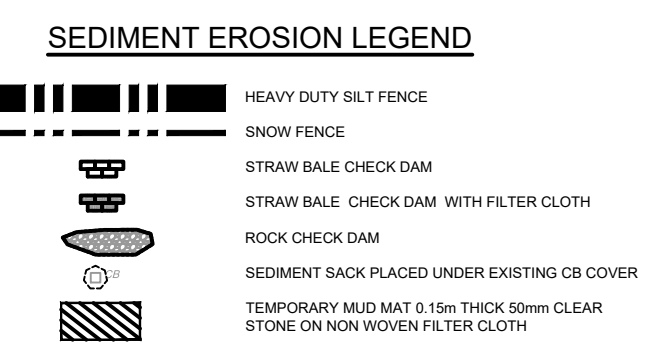
SHEET TITLE  
**SEDIMENT AND EROSION CONTROL PLAN**

SHEET NUMBER  
**900**

ISSUE  
**4**

**NOTES:**

- SILT FENCE TO BE ERECTED PRIOR TO EARTH WORKS BEING COMMENCED. SILT FENCE TO BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED OR UNTIL START OF SUBSEQUENT PHASE.
- STRAW BALE SEDIMENT TRAPS TO BE CONSTRUCTED IN EXISTING ROAD SIDE DITCHES. TRAPS TO REMAIN AND BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED.
- SILT SACK TO BE PLACED AND MAINTAINED UNDER COVER OF ALL CATCHBASINS. GEOTEXTILE SILT SACK IN STREET C&B TO REMAIN UNTIL ALL CURBS ARE CONSTRUCTED. GEOTEXTILE FABRIC IN RYCBs TO REMAIN UNTIL VEGETATION IS ESTABLISHED. ALL CATCHBASINS TO BE REGULARLY INSPECTED AND CLEANED, AS NECESSARY, UNTIL SOD AND CURBS ARE CONSTRUCTED.
- CONTRACTOR TO PROVIDE DETAILS ON LOCATION(S) AND DESIGN OF DEWATERING TRAP(S) PRIOR TO COMMENCING WORK. CONTRACTOR ALSO RESPONSIBLE FOR MAINTAINING TRAP(S) AND ADJUSTING SIZE(S) IF DEEMED REQUIRED BY THE ENGINEER DURING CONSTRUCTION.
- CONTRACTOR TO PROTECT EXISTING CATCHBASINS WITH FILTER CLOTH UNDER THE COVERS TO TRAP SEDIMENTATION. REFER TO IDENTIFIED STRUCTURES.
- IF DEEMED NECESSARY BY CITY INSPECTOR, LOCATION OF MUD MATS TO BE DETERMINED IN THE FIELD.
- CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION, INSPECTION, MAINTENANCE AND REMOVAL OF ALL CONTROL MEASURES.
- THIS PLAN IS A "LIVING DOCUMENT" WHICH MAY BE REVISED IN THE EVENT THE CONTROL MEASURES ARE INSUFFICIENT.



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