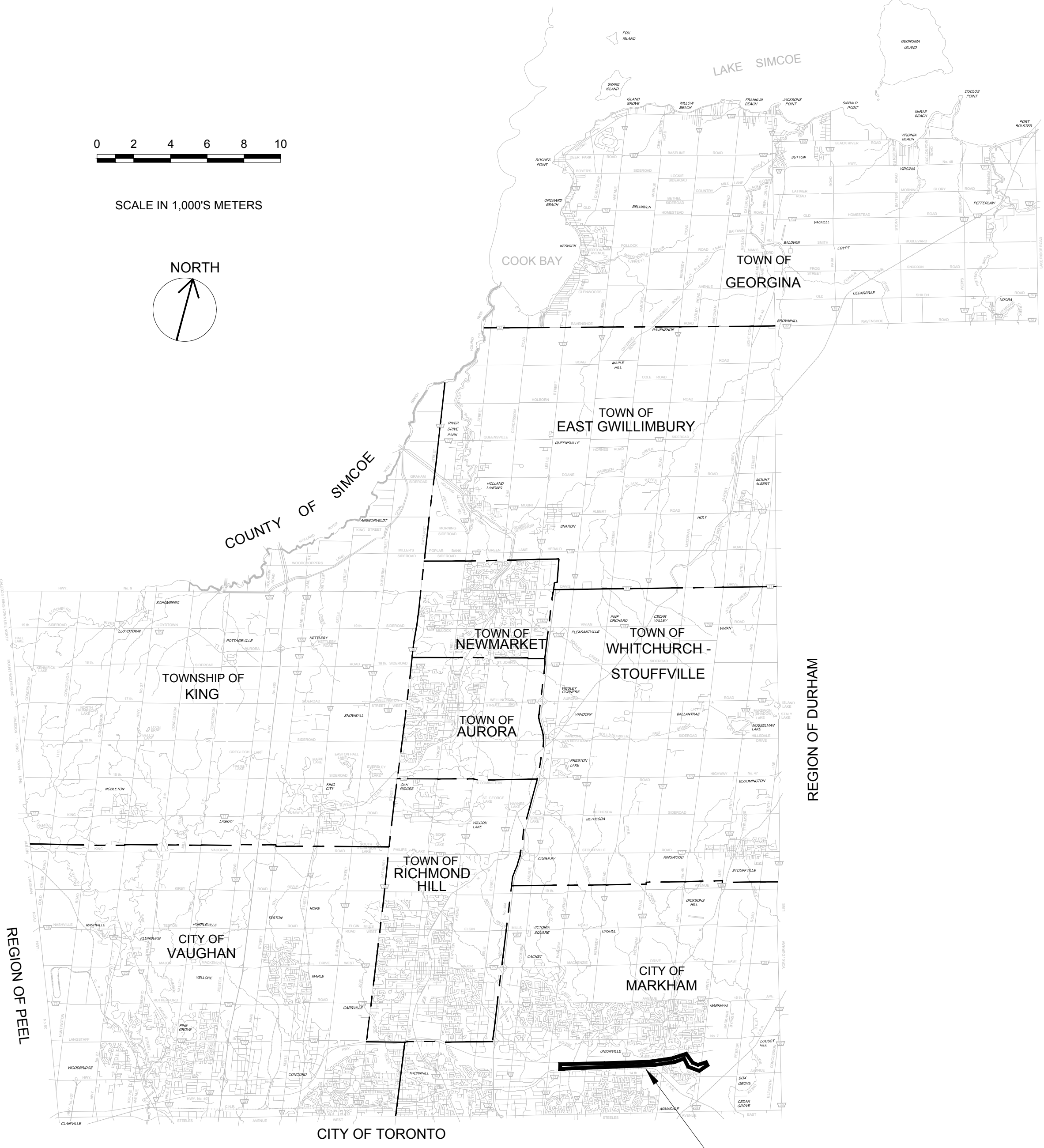




Public Works - Environmental Services

CLIENT'S REFERENCE NO. 75320-EI18301
MARKHAM COLLECTOR TWINNING (Y2)
CONCEPTUAL DESIGN



CONTRACT SITE

W. EMMERSON
REGIONAL CHAIR

E. MAHONEY
COMMISSIONER OF PUBLIC WORKS

ISSUED FOR CONCEPTUAL DESIGN
AUGUST 2023



File Location: C:\Users\jacob1\OneDrive - Jacobs\1\2\Conceptual Design\WIP\MUNISheets\Y2-COVER.dwg Last Saved: August 1, 2023 by CA073912 Printed: August 1, 2023

DRAWING INDEX

GENERAL	DWG. No.	DRAWING DESCRIPTION
1	Y2 - COVER	COVER SHEET
2	Y2 - INDEX	DRAWING INDEX
3	Y2 - DWGLIST	DRAWING LIST

PLAN AND PROFILE

SHEET NO.	DRAWING NUMBER	DRAWING DESCRIPTION
1	Y2-C1	PLAN AND PROFILE - STA 0+000 TO STA 0+700
2	Y2-C2	PLAN AND PROFILE - STA 0+700 TO STA 1+400
3	Y2-C3	PLAN AND PROFILE - STA 1+400 TO STA 2+100
4	Y2-C4	PLAN AND PROFILE - STA 2+100 TO STA 2+800
5	Y2-C5	PLAN AND PROFILE - STA 2+800 TO STA 3+500
6	Y2-C6	PLAN AND PROFILE - STA 3+500 TO STA 4+200
7	Y2-C7	PLAN AND PROFILE - STA 4+200 TO STA 4+900
8	Y2-C8	PLAN AND PROFILE - STA 4+900 TO STA 5+600
9	Y2-C9	PLAN AND PROFILE - STA 5+600 TO STA 6+300
10	Y2-C10	PLAN AND PROFILE - STA 6+300 TO STA 7+000
11	Y2-C11	PLAN AND PROFILE - STA 7+000 TO STA 7+700
12	Y2-C12	PLAN AND PROFILE - STA 7+700 TO STA 8+400
13	Y2-C13	PLAN AND PROFILE - STA 8+400 TO STA 9+100
14	Y2-C14	PLAN AND PROFILE - STA 9+100 TO STA 9+500

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THE LOCATION OF UTILITIES IS APPROXIMATE ONLY, AND THE EXACT LOCATION SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL PROVE THE LOCATION OF UTILITIES AND SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION FROM DAMAGE DURING CONSTRUCTION.



SEAL

No.	DATE	REVISIONS	BY
0	AUG 2023	ISSUED FOR CONCEPTUAL DESIGN	CA



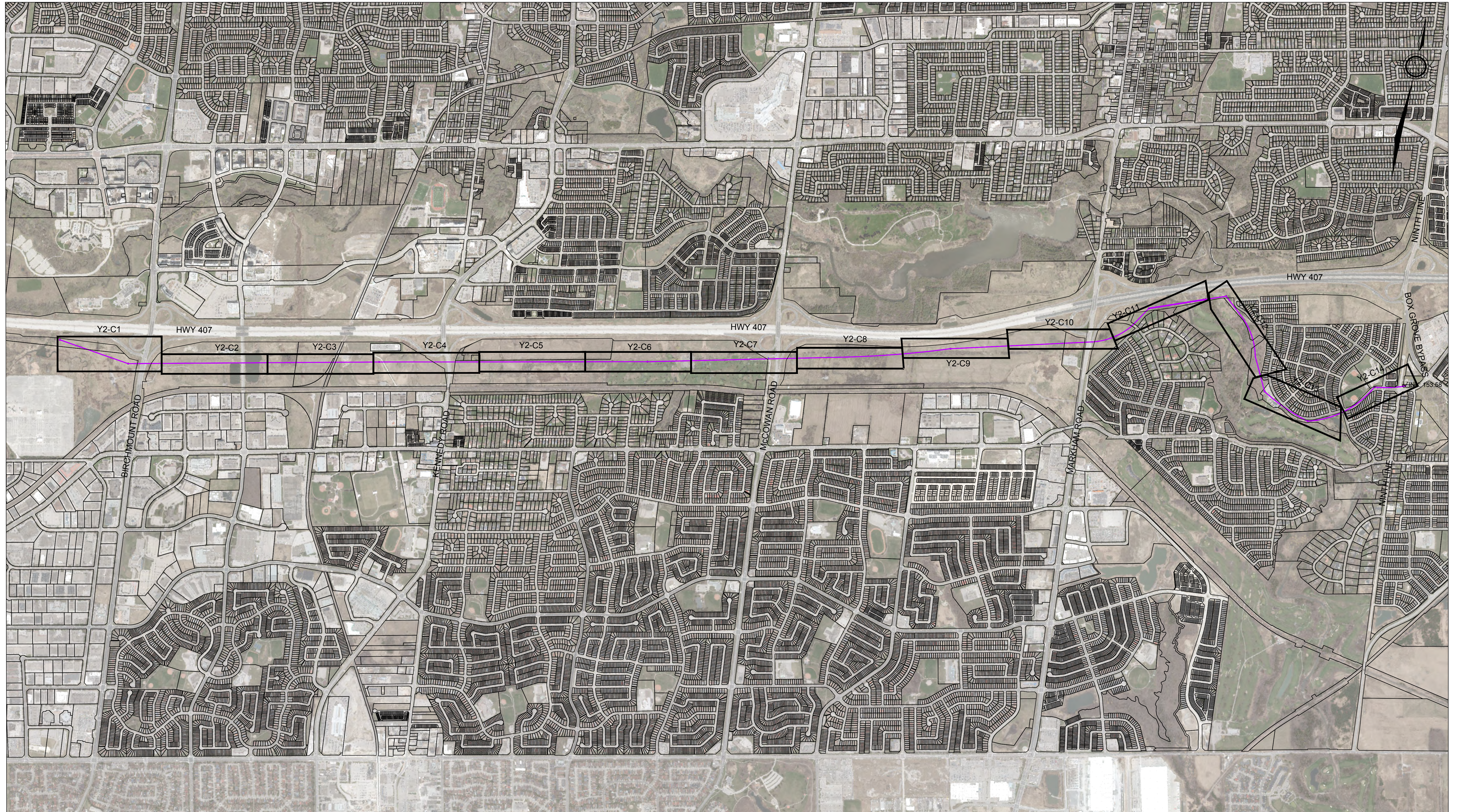
Regional Municipality of York

DATE AUG. 2023
DESIGN IH
DRAWN CA
CHECKED PP/DB

**YORK REGION SEWAGE WORKS PROJECT
MARKHAM COLLECTOR TWINNING (Y2)
CONCEPTUAL DRAWINGS
DRAWING LIST**

SCALE NTS
DWG. NO. Y2-DWGLIST
CLIENT REF. NO. 75320-EI18031
SHEET NO.

SCALE CHECK 1 in 10mm



File Location: C:\Users\H068592\OneDrive - Jacobs\Y2-MarkhamCollector\Y2-Conceptual Drawings\WIP\MUN\Sheets\Y2-INDEX.dwg Last Saved: August 3, 2023, by H068592 Plotted: August 3, 2023

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Jacobs

CONSULTANT

SEAL

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0	AUG 2023	ISSUED FOR CONCEPTUAL DESIGN	CA



Regional
Municipality of
York

DATE	AUG. 2023
DESIGN	IH
DRAWN	CA
CHECKED	PP/DB

YORK REGION SEWAGE WORKS PROJECT
MARKHAM COLLECTOR TWINNING (Y2)
CONCEPTUAL DRAWINGS
SHEET INDEX

SCALE	
DWG. NO.	
CLIENT REF. NO.	75320-E18031
SHEET NO.	INDEX

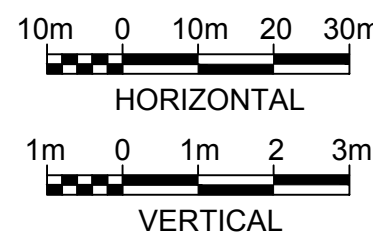
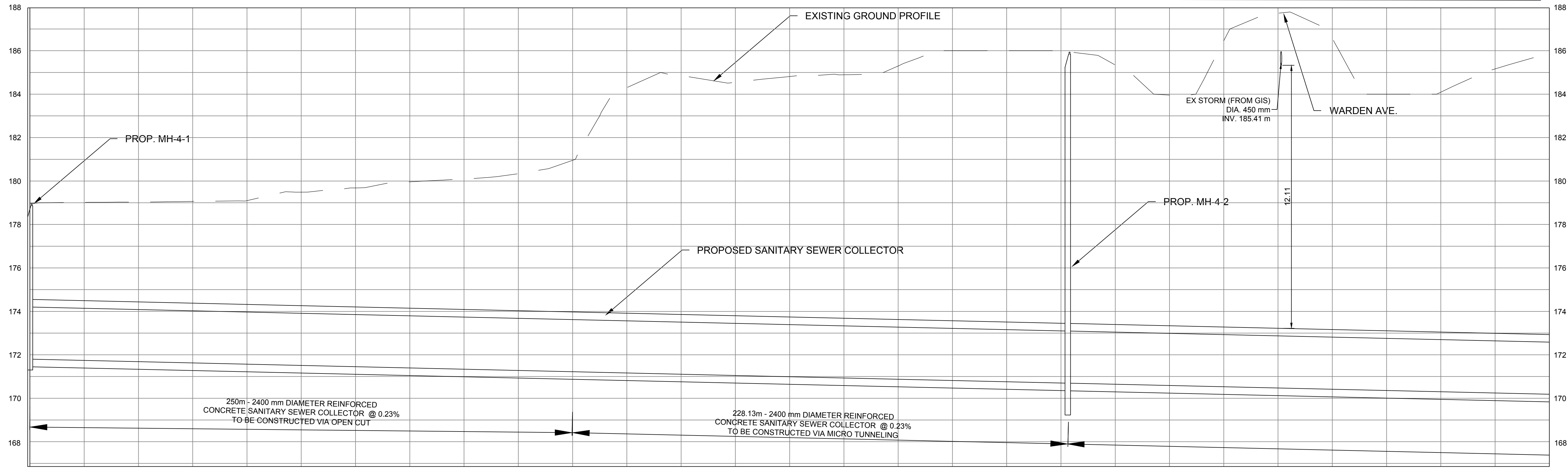
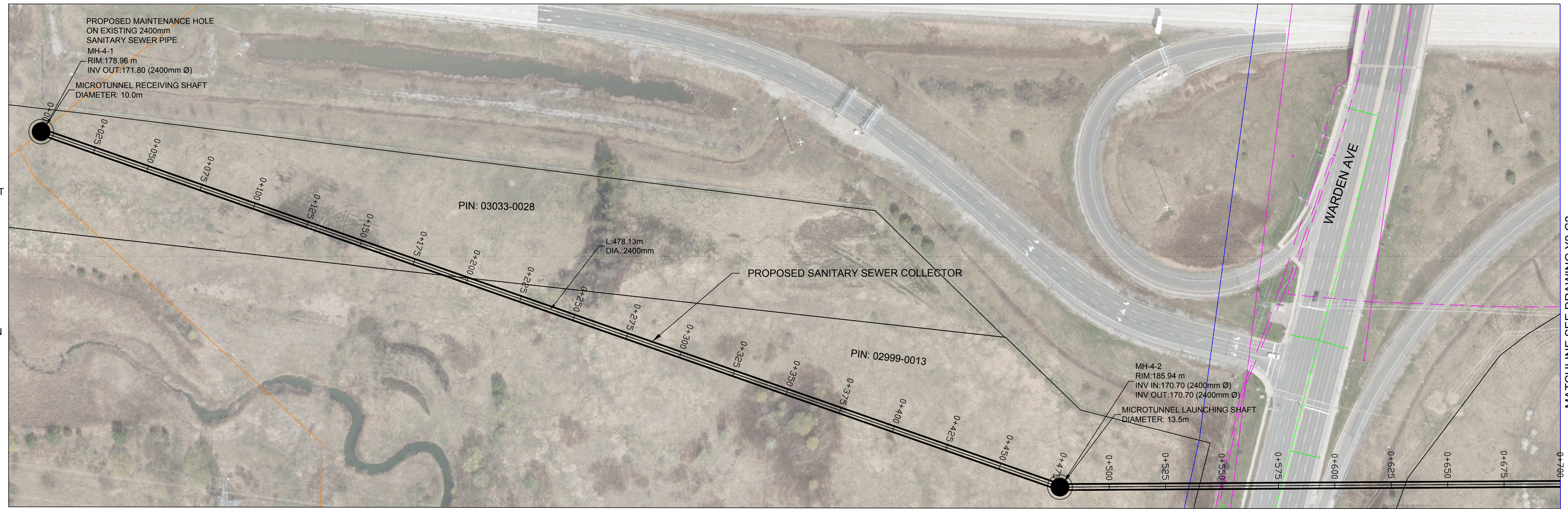
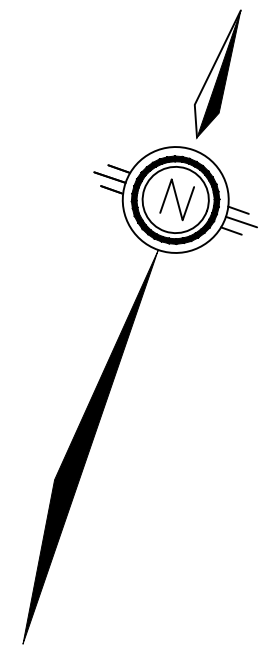
SCALE CHECK
1" = 100m

UTILITY LEGEND

- EXISTING SANITARY
- EXISTING STORM
- EXISTING WATER
- EXISTING GAS
- EXISTING TELECOM
- PROPOSED SANITARY ALIGNMENT
- PROPOSED ALIGNMENT CHAINAGE

NOTES:
EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND OBTAINED FROM AS-BUILT AND GIS DATA.

OPEN CUT CONSTRUCTION IS PROPOSED BUT THERE IS AN OPPORTUNITY TO TUNNEL DEPENDING ON SITE CONDITIONS AND FURTHER ASSESSMENT DURING THE DESIGN STAGE.



STRUCTURE NAME	MH-4-1
GROUND EL. (m)	178.96
PIPE INVERT LEVEL (m)	178.00
PIPE LINE CHAINAGE (m)	0+000.00

STRUCTURE NAME	MH-4-2
GROUND EL. (m)	185.94
PIPE INVERT LEVEL (m)	170.70
PIPE LINE CHAINAGE (m)	0+475.00

File Location: C:\Users\H068592\OneDrive - Jacobs\12-MarkhamCollector\12-Conceptual Drawings\12-MUN\Sheets\12-C1.dwg Last Saved: August 25, 2023, by H068592 Plotted: August 25, 2023

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CONSULTANT

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0	AUG 2023	ISSUED FOR CONCEPTUAL DESIGN	CA



Regional Municipality of York

DATE	AUG. 2023
DESIGN	IH
DRAWN	CA
CHECKED	PP/DB

YORK REGION SEWAGE WORKS PROJECT
MARKHAM COLLECTOR TWINNING (Y2)
CONCEPTUAL DRAWINGS
PLAN AND PROFILE
STA 0+000 TO STA 0+700

SCALE	H = 1:1000 V = 1:100
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CLIENT REF. NO.	75320-EI18031
SHEET NO.	1

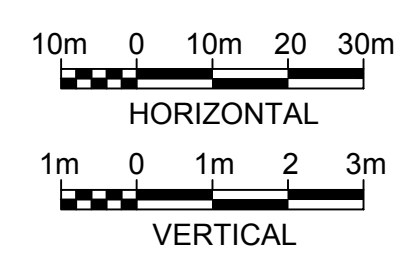
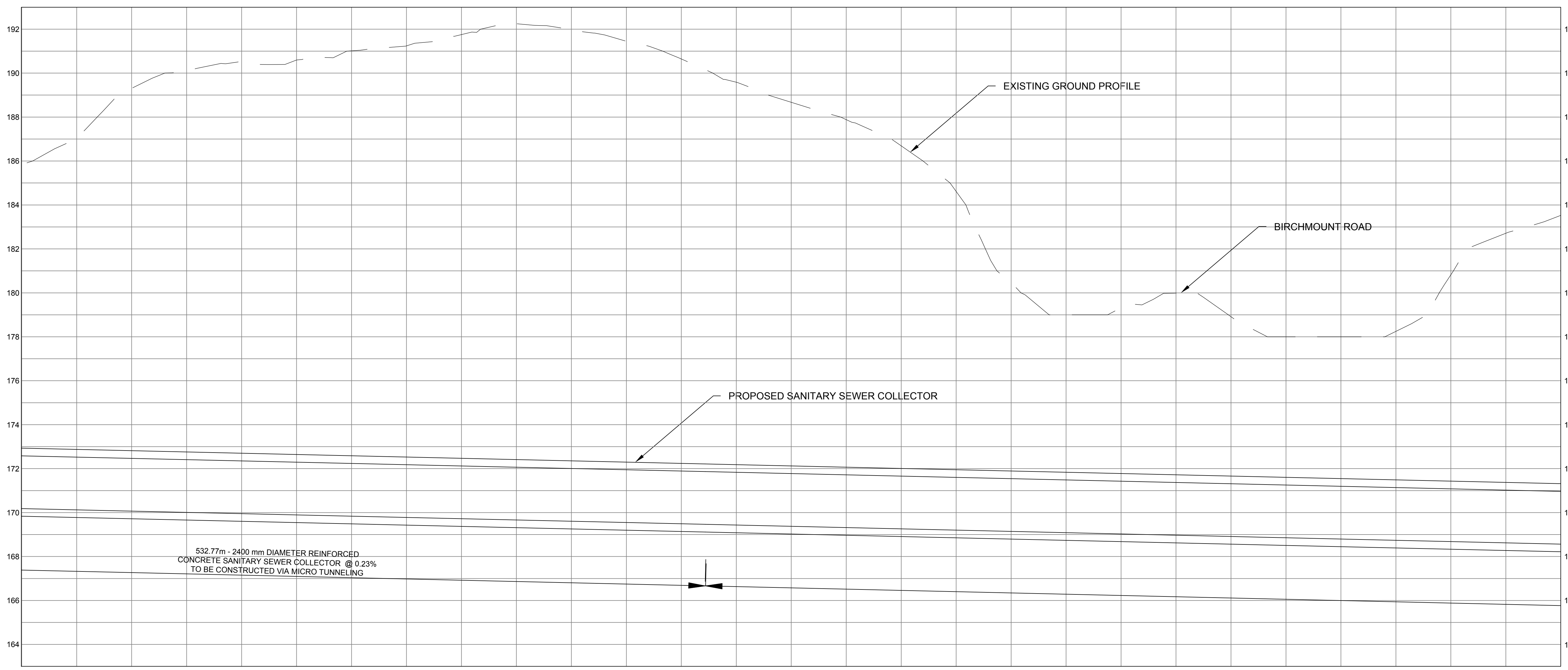
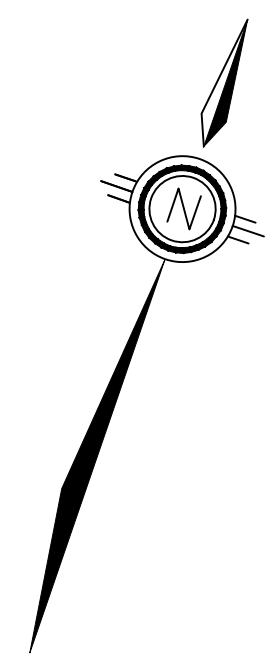
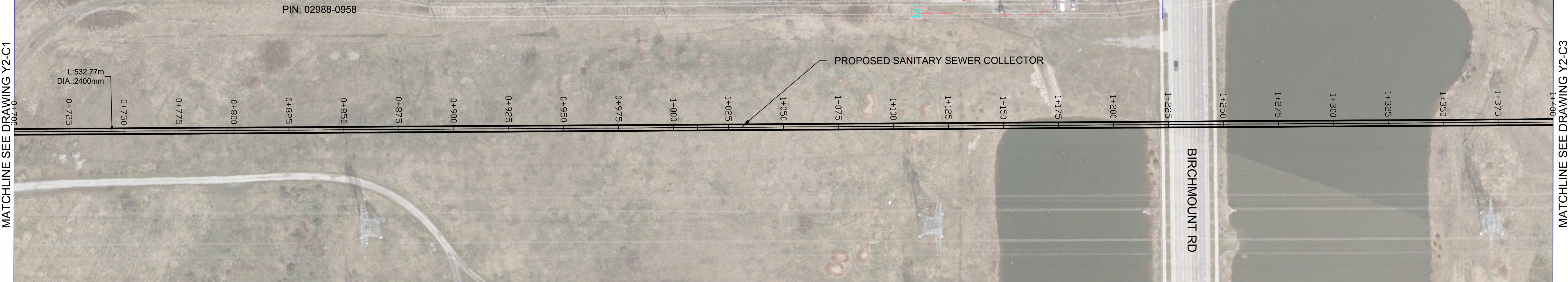
SCALE CHECK

MATCHLINE SEE DRAWING Y2-C2

UTILITY LEGEND

- EXISTING SANITARY
- EXISTING STORM
- EXISTING WATER
- EXISTING GAS
- EXISTING TELECOM
- PROPOSED SANITARY ALIGNMENT
- PROPOSED ALIGNMENT CHAINAGE

NOTE: EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND OBTAINED FROM AS-BUILT AND GIS DATA.



STRUCTURE NAME																													
GROUND EL. (m)																													
PIPE INVERT LEVEL (m)																													
PIPE LINE CHAINAGE (m)	0+700.00	0+725.00	0+750.00	0+775.00	0+800.00	0+825.00	0+850.00	0+875.00	0+900.00	0+925.00	0+950.00	0+975.00	1+000.00	1+025.00	1+050.00	1+075.00	1+100.00	1+125.00	1+150.00	1+175.00	1+200.00	1+225.00	1+250.00	1+275.00	1+300.00	1+325.00	1+350.00	1+375.00	1+400.00

File Location: C:\Users\jhd68592\OneDrive - Jacobs\12-MarkhamCollector\12-Conceptual Drawings\12-MarkhamCollector\12-C2.dwg Last Saved: August 6, 2023, by jhd68592 Plotted: August 25, 2023

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CONSULTANT: **Jacobs**

SEAL: _____

No.	DATE	REVISIONS	BY
0	AUG 2023	ISSUED FOR CONCEPTUAL DESIGN	CA

York Region Municipality of York

DATE: AUG. 2023
 DESIGN: IH
 DRAWN: CA
 CHECKED: PP/DB

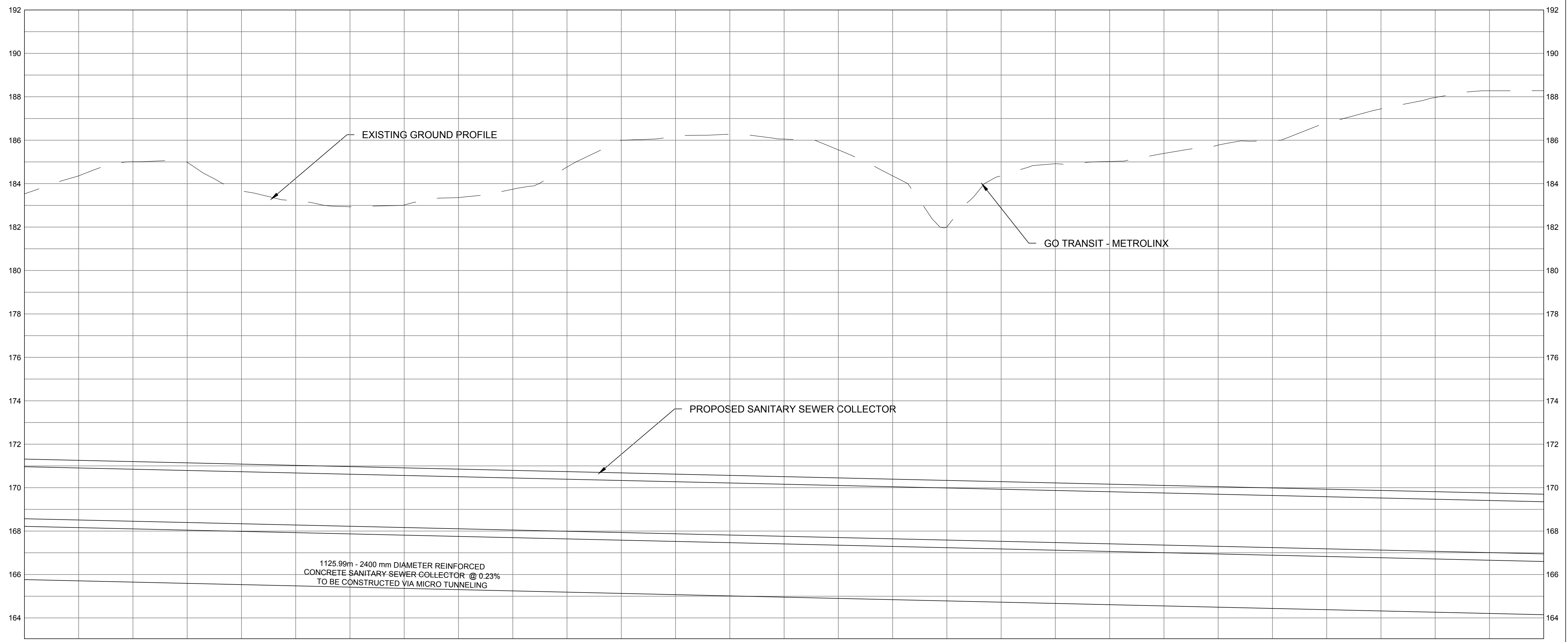
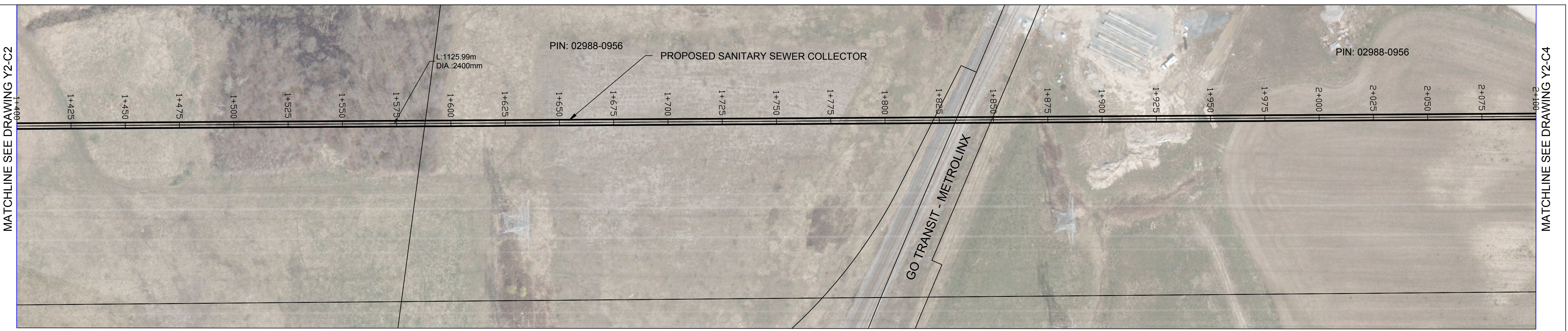
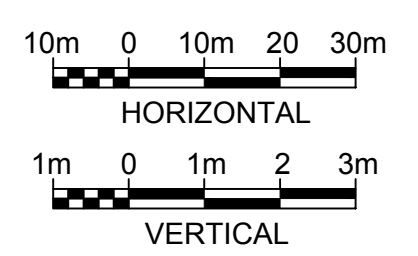
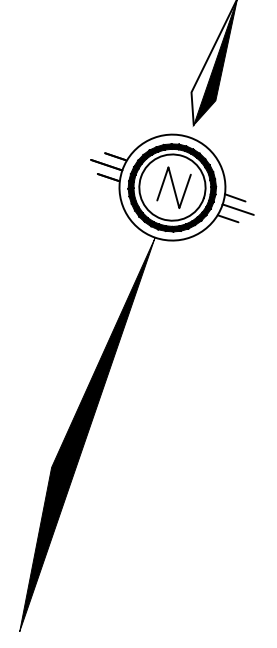
YORK REGION SEWAGE WORKS PROJECT
 MARKHAM COLLECTOR TWINNING (Y2)
 CONCEPTUAL DRAWINGS
 PLAN AND PROFILE
 STA 0+700 TO STA 1+400

SCALE: H = 1:1000, V = 1:100
 DWG. NO.: Y2-C2
 CLIENT REF. NO.: 75320-EI18031
 SHEET NO.: 2

UTILITY LEGEND

- EXISTING SANITARY
- EXISTING STORM
- EXISTING WATER
- EXISTING GAS
- EXISTING TELECOM
- = PROPOSED SANITARY ALIGNMENT
- PROPOSED ALIGNMENT CHAINAGE

NOTE: EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND OBTAINED FROM AS-BUILT AND GIS DATA.



STRUCTURE NAME	
GROUND EL. (m)	
PIPE INVERT LEVEL (m)	
PIPE LINE CHAINAGE (m)	1+400.00 1+425.00 1+450.00 1+475.00 1+500.00 1+525.00 1+550.00 1+575.00 1+600.00 1+625.00 1+650.00 1+675.00 1+700.00 1+725.00 1+750.00 1+775.00 1+800.00 1+825.00 1+850.00 1+875.00 1+900.00 1+925.00 1+950.00 1+975.00 2+000.00 2+025.00 2+050.00 2+075.00 2+100.00

File Location: C:\Users\H068592\OneDrive - Jacobs\12-MarkhamCollector\12-Conceptual Drawings\12-MUN\Sheets\Y2-C3.dwg Last Saved: August 6, 2023, by H068592 Plotted: August 25, 2023

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CONSULTANT	SEAL				
		No.	DATE	REVISIONS	BY
		0	AUG 2023	ISSUED FOR CONCEPTUAL DESIGN	CA



DATE	AUG. 2023
DESIGN	IH
DRAWN	CA
CHECKED	PP/DB

YORK REGION SEWAGE WORKS PROJECT
MARKHAM COLLECTOR TWINNING (Y2)
 CONCEPTUAL DRAWINGS
 PLAN AND PROFILE
 STA 1+400 TO STA 2+100

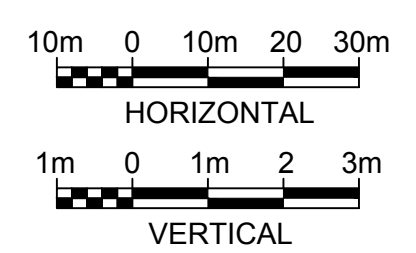
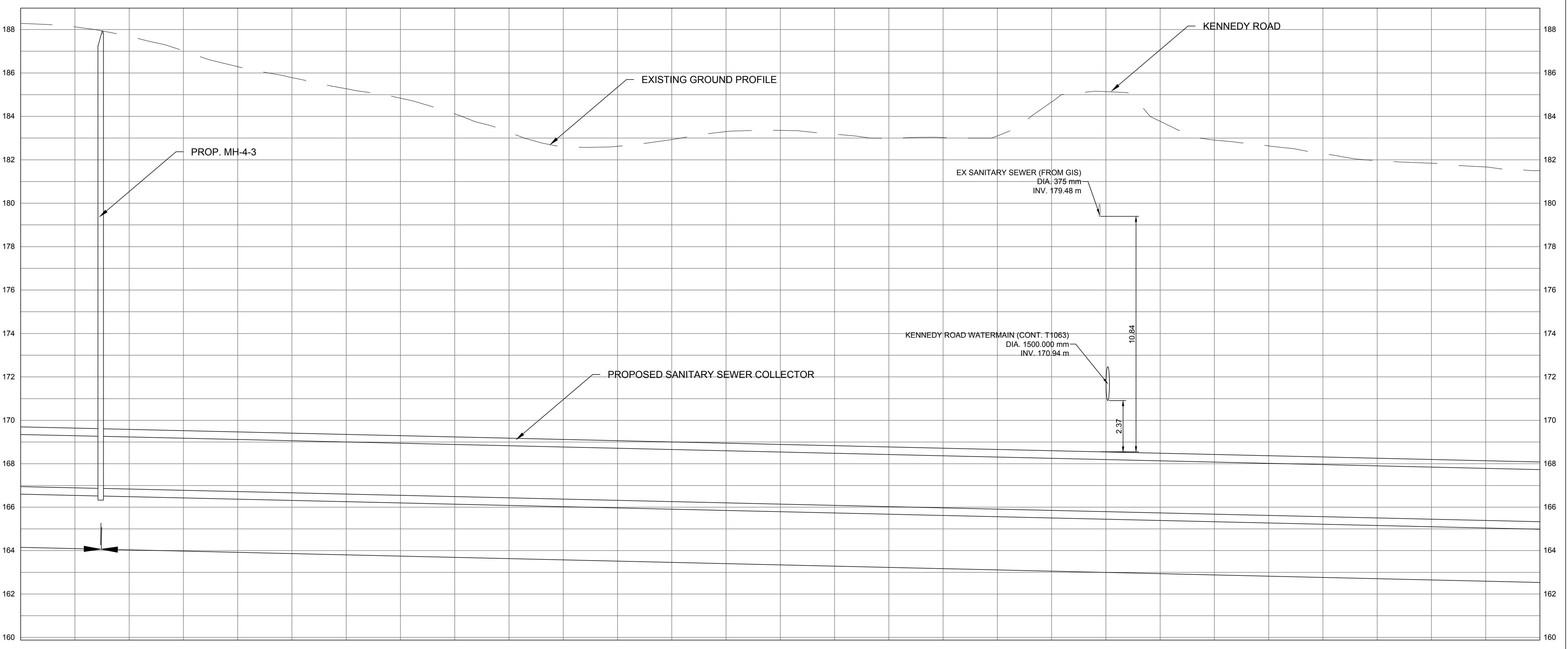
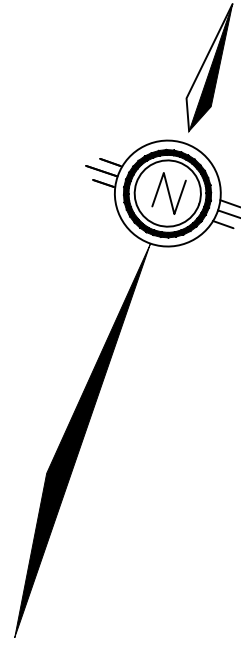
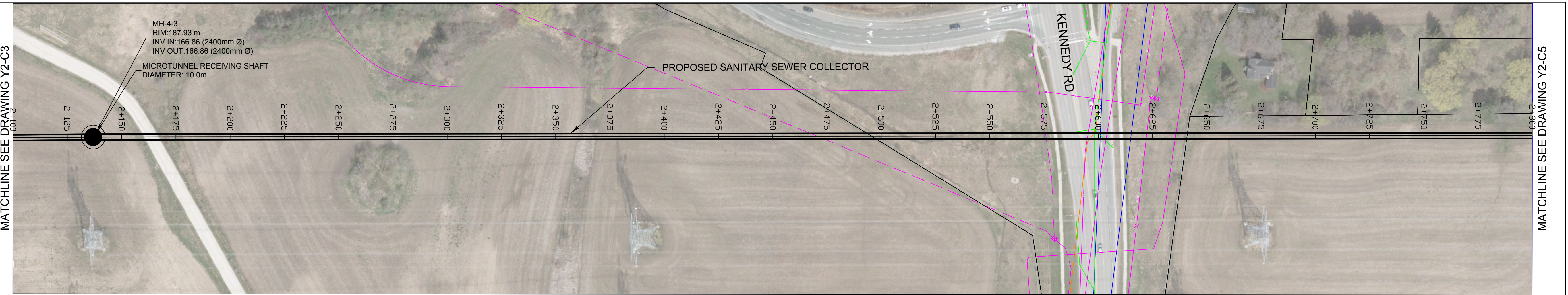
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CLIENT REF. NO.	75320-EI18031
SHEET NO.	3

SCALE CHECK

UTILITY LEGEND

- EXISTING SANITARY
- EXISTING STORM
- EXISTING WATER
- EXISTING GAS
- EXISTING TELECOM
- PROPOSED SANITARY ALIGNMENT
- PROPOSED ALIGNMENT CHAINAGE

NOTE: EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND OBTAINED FROM AS-BUILT AND GIS DATA.



STRUCTURE NAME	MH-4-3
GROUND EL. (m)	182.00
PIPE INVERT LEVEL (m)	166.86
PIPE LINE CHAINAGE (m)	2+125.00

STRUCTURE NAME	MH-4-3
GROUND EL. (m)	182.00
PIPE INVERT LEVEL (m)	166.86
PIPE LINE CHAINAGE (m)	2+100.00, 2+125.00, 2+150.00, 2+175.00, 2+200.00, 2+225.00, 2+250.00, 2+275.00, 2+300.00, 2+325.00, 2+350.00, 2+375.00, 2+400.00, 2+425.00, 2+450.00, 2+475.00, 2+500.00, 2+525.00, 2+550.00, 2+575.00, 2+600.00, 2+625.00, 2+650.00, 2+675.00, 2+700.00, 2+725.00, 2+750.00, 2+775.00, 2+800.00

File Location: C:\Users\jhd68592\OneDrive - Jacobs\Y2-MarkhamCollector\Y2-Conceptual Drawings\WIP\MUN\Sheets\Y2-C4.dwg Last Saved: August 6, 2023, by jhd68592 Plotted: August 25, 2023

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CONSULTANT	SEAL	No.	DATE	REVISIONS	BY
Jacobs					
		0	AUG 2023	ISSUED FOR CONCEPTUAL DESIGN	CA



Regional Municipality of York

DATE	AUG. 2023
DESIGN	IH
DRAWN	CA
CHECKED	PP/DB

**YORK REGION SEWAGE WORKS PROJECT
MARKHAM COLLECTOR TWINNING (Y2)**

CONCEPTUAL DRAWINGS

PLAN AND PROFILE

STA 2+100 TO STA 2+800

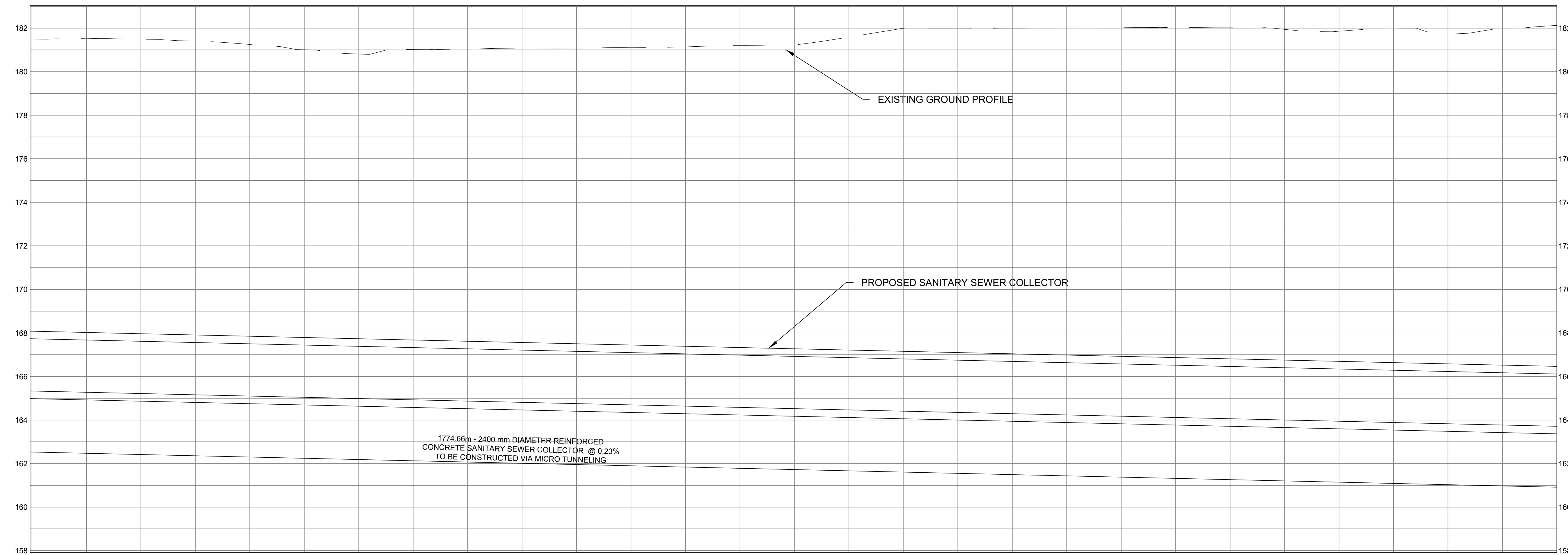
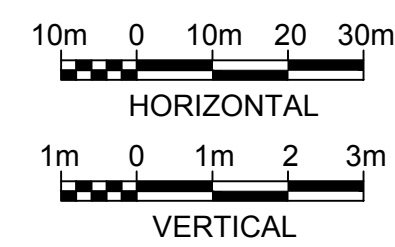
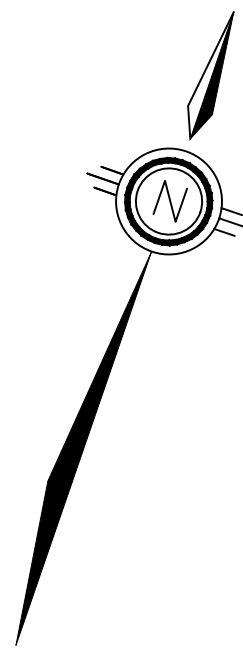
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DWG. NO.	Y2-C4
CLIENT REF. NO.	75320-EI18031
SHEET NO.	4

SCALE CHECK

UTILITY LEGEND

- EXISTING SANITARY
- EXISTING STORM
- EXISTING WATER
- EXISTING GAS
- EXISTING TELECOM
- PROPOSED SANITARY ALIGNMENT
- PROPOSED ALIGNMENT CHAINAGE

NOTE: EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND OBTAINED FROM AS-BUILT AND GIS DATA.



STRUCTURE NAME	
GROUND EL. (m)	
PIPE INVERT LEVEL (m)	
PIPE LINE CHAINAGE (m)	2+800.00 2+825.00 2+850.00 2+875.00 2+900.00 2+925.00 2+950.00 2+975.00 3+000.00 3+025.00 3+050.00 3+075.00 3+100.00 3+125.00 3+150.00 3+175.00 3+200.00 3+225.00 3+250.00 3+275.00 3+300.00 3+325.00 3+350.00 3+375.00 3+400.00 3+425.00 3+450.00 3+475.00 3+500.00

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CONSULTANT 	SEAL	
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No.	DATE	REVISIONS	BY
0	AUG 2023	ISSUED FOR CONCEPTUAL DESIGN	CA

Regional
Municipality of
York

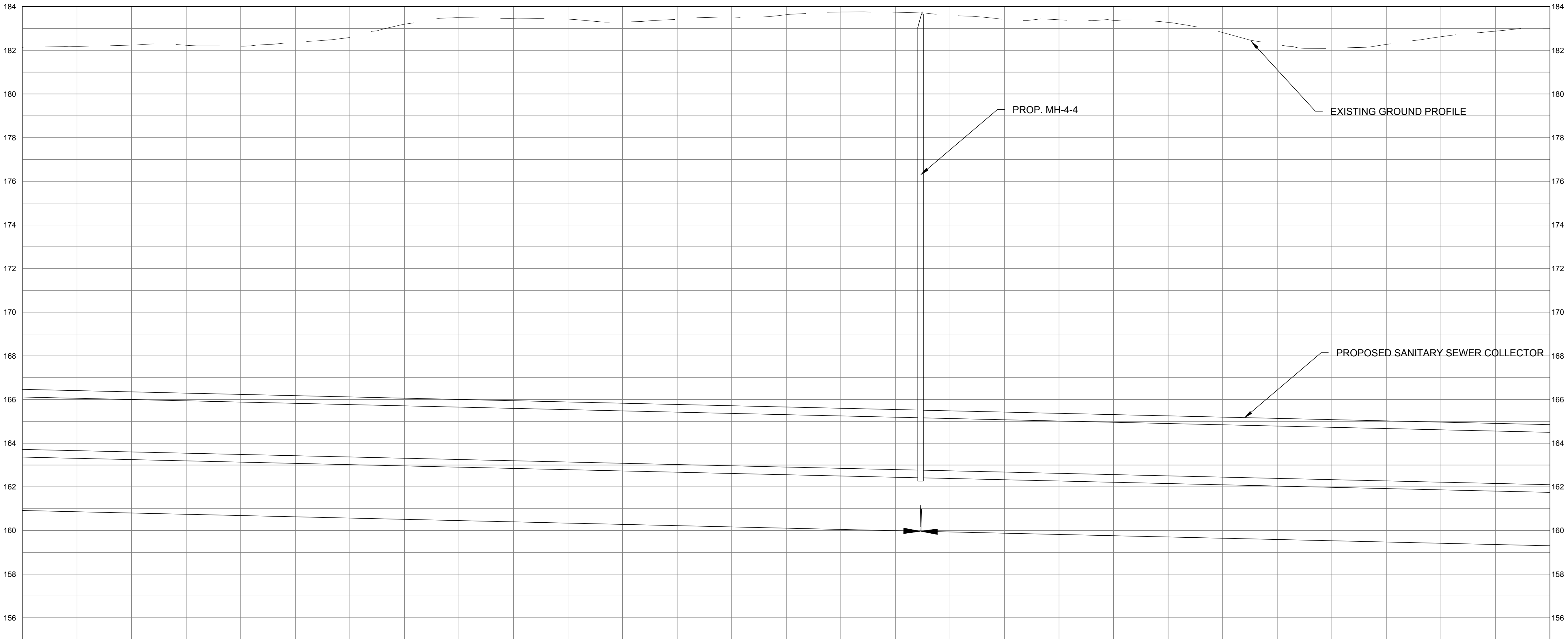
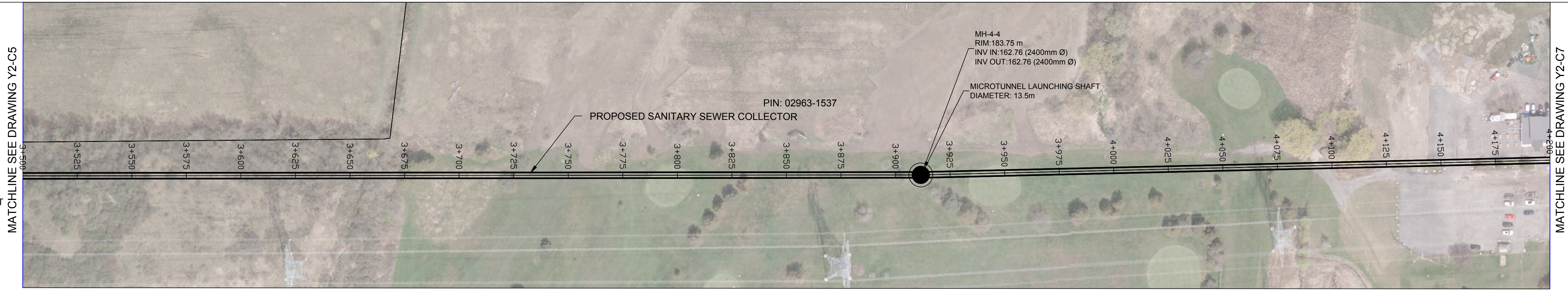
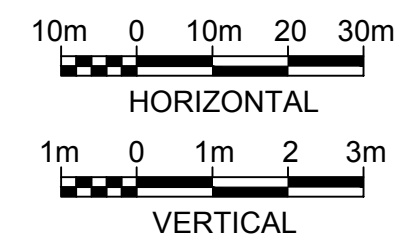
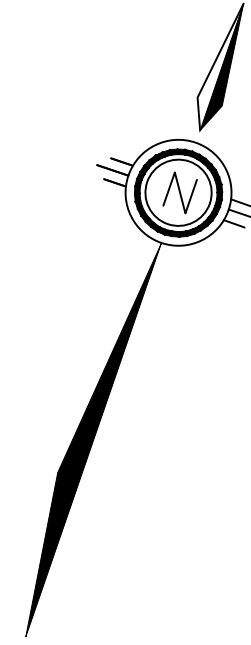
DATE AUG. 2023	YORK REGION SEWAGE WORKS PROJECT MARKHAM COLLECTOR TWINNING (Y2) CONCEPTUAL DRAWINGS PLAN AND PROFILE STA 2+800 TO STA 3+500	SCALE H = 1:1000 V = 1:100
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DRAWN CA		CLIENT REF. NO. 75320-EI18031
CHECKED PP/DB		SHEET NO. 5

SCALE CHECK

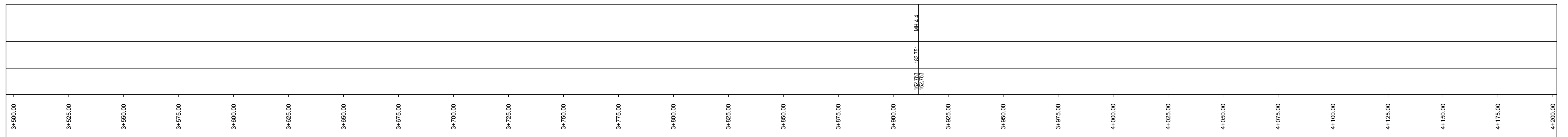
UTILITY LEGEND

- EXISTING SANITARY
- EXISTING STORM
- EXISTING WATER
- EXISTING GAS
- EXISTING TELECOM
- PROPOSED SANITARY ALIGNMENT
- PROPOSED ALIGNMENT CHAINAGE

NOTE: EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND OBTAINED FROM AS-BUILT AND GIS DATA.



STRUCTURE NAME	
GROUND EL. (m)	
PIPE INVERT LEVEL (m)	
PIPE LINE CHAINAGE (m)	



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Jacobs

CONSULTANT

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Regional Municipality of York

DATE	AUG. 2023
DESIGN	IH
DRAWN	CA
CHECKED	PP/DB

YORK REGION SEWAGE WORKS PROJECT
 MARKHAM COLLECTOR TWINNING (Y2)
 CONCEPTUAL DRAWINGS
 PLAN AND PROFILE
 STA 3+500 TO STA 4+200

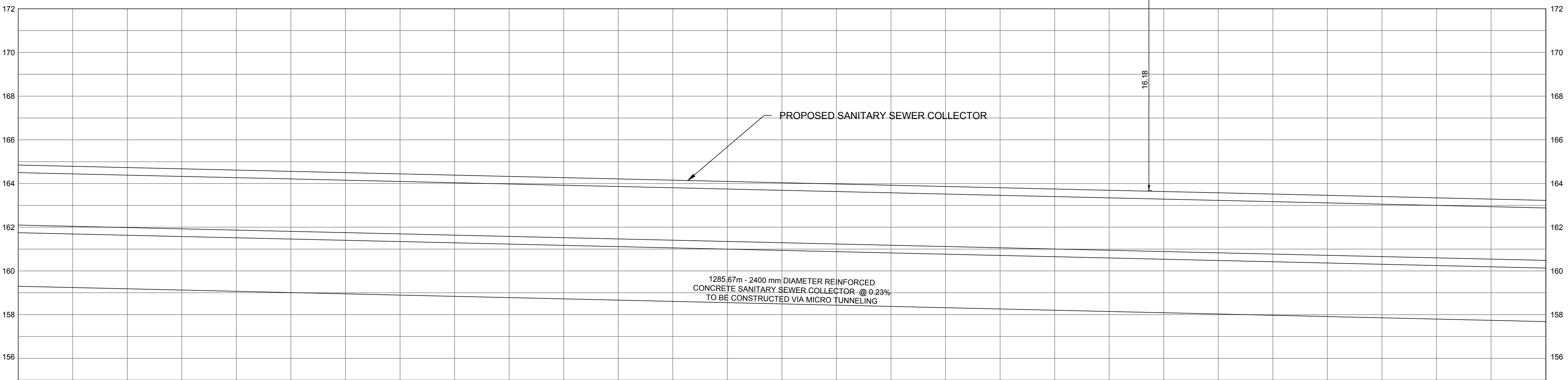
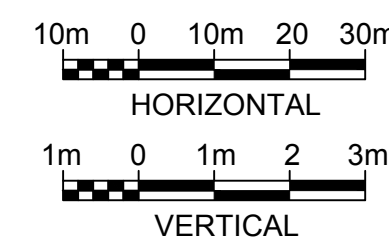
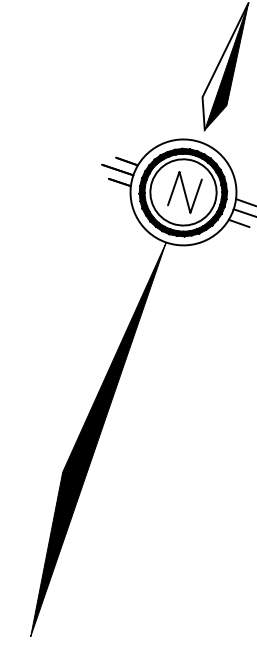
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DWG. NO.	Y2-C6
CLIENT REF. NO.	75320-EI18031
SHEET NO.	6

SCALE CHECK

UTILITY LEGEND

- EXISTING SANITARY
- EXISTING STORM
- EXISTING WATER
- EXISTING GAS
- EXISTING TELECOM
- = PROPOSED SANITARY ALIGNMENT
- = PROPOSED ALIGNMENT CHAINAGE

NOTE: EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND OBTAINED FROM AS-BUILT AND GIS DATA.



STRUCTURE NAME	
GROUND EL. (m)	
PIPE INVERT LEVEL (m)	
PIPE LINE CHAINAGE (m)	

4+200.00	4+250.00	4+300.00	4+350.00	4+400.00	4+450.00	4+500.00	4+550.00	4+600.00	4+650.00	4+700.00	4+750.00	4+800.00	4+850.00	4+900.00
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File Location: C:\Users\jhd68592\OneDrive - Jacobs\12-MarkhamCollector\12-Conceptual Drawings\12-C7.dwg Last Saved: August 8, 2023, by jhd68592 Plotted: August 25, 2023

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Jacobs

CONSULTANT

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Regional Municipality of York

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DRAWN	CA
CHECKED	PP/DB

**YORK REGION SEWAGE WORKS PROJECT
MARKHAM COLLECTOR TWINNING (Y2)**

CONCEPTUAL DRAWINGS

PLAN AND PROFILE
STA 4+200 TO STA 4+900

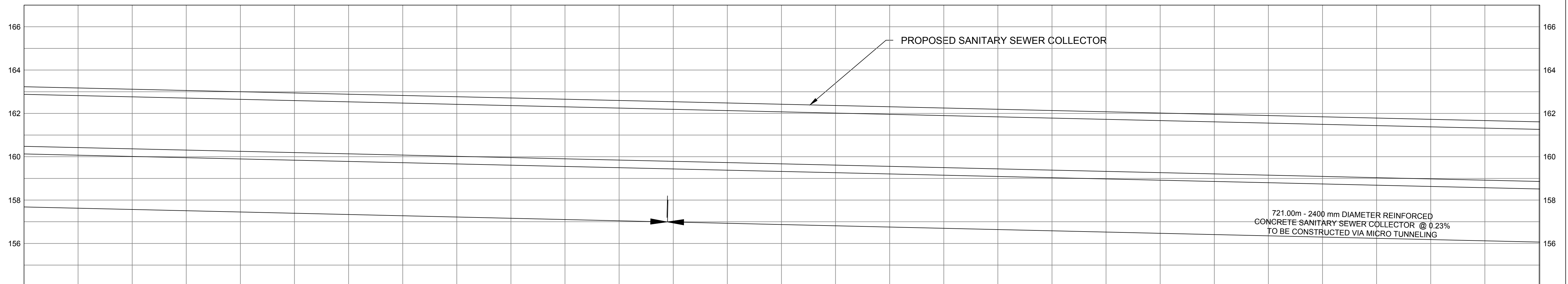
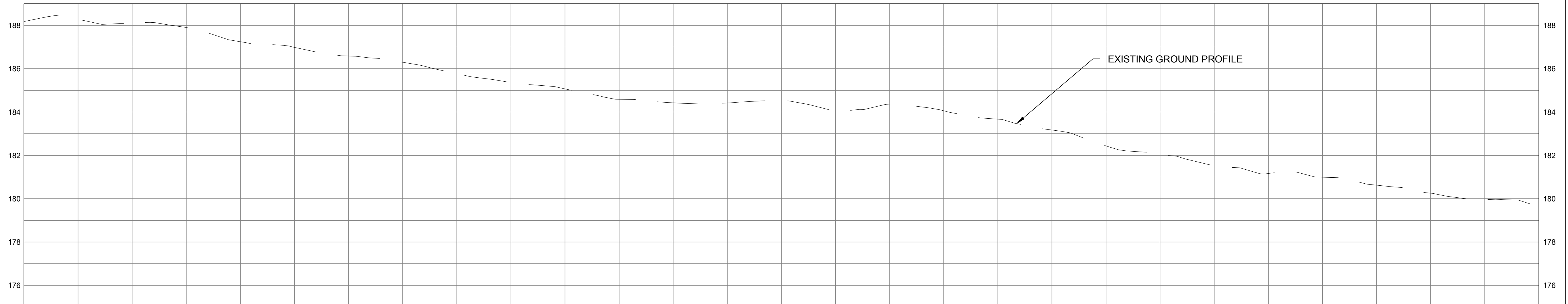
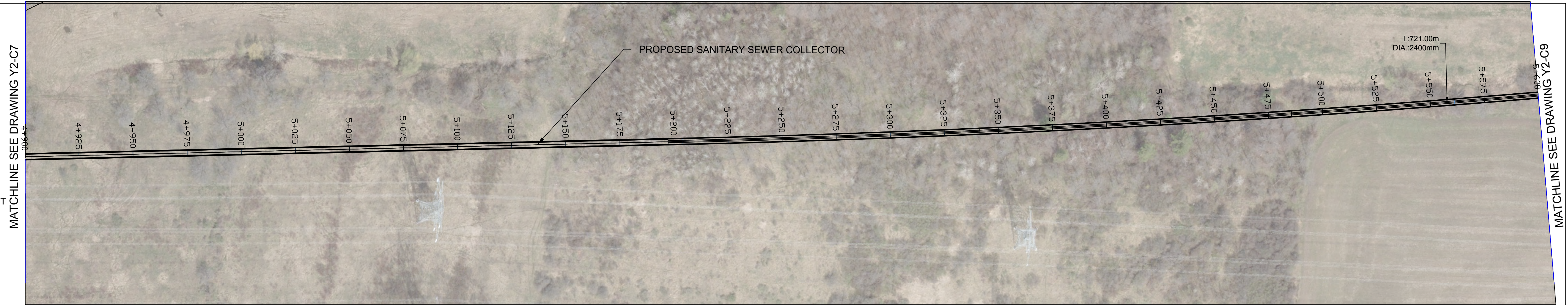
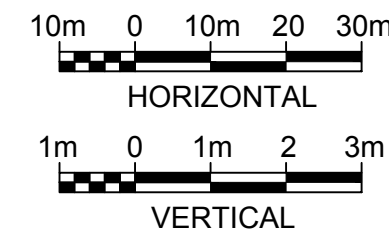
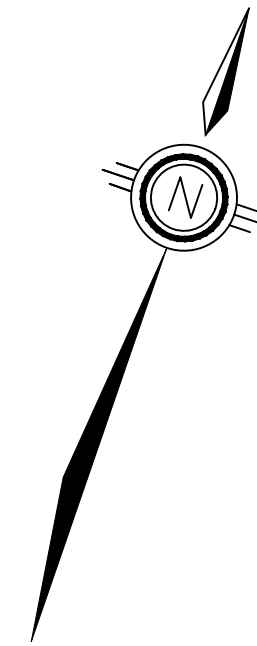
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DWG. NO.	Y2-C7
CLIENT REF. NO.	75320-EI18031
SHEET NO.	7

SCALE CHECK

UTILITY LEGEND

- EXISTING SANITARY
- EXISTING STORM
- EXISTING WATER
- EXISTING GAS
- EXISTING TELECOM
- PROPOSED SANITARY ALIGNMENT
- PROPOSED ALIGNMENT CHAINAGE

NOTE: EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND OBTAINED FROM AS-BUILT AND GIS DATA.



STRUCTURE NAME	
GROUND EL. (m)	
PIPE INVERT LEVEL (m)	
PIPE LINE CHAINAGE (m)	

File Location: C:\Users\jhd68592\OneDrive - Jacobs\Y2-MarkhamCollector\Y2-Conceptual Drawings\WIP\MUN\Sheets\Y2-C8.dwg Last Saved: August 8, 2023, by jhd68592 Plotted: August 25, 2023

THE LOCATION OF UTILITIES IS APPROXIMATE ONLY, AND THE EXACT LOCATION SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL PROVE THE LOCATION OF UTILITIES AND SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION FROM DAMAGE DURING CONSTRUCTION.

CONSULTANT

Jacobs

No.	DATE	REVISIONS	BY
0	AUG 2023	ISSUED FOR CONCEPTUAL DESIGN	CA



Regional Municipality of York

DATE AUG. 2023
DESIGN IH
DRAWN CA
CHECKED PP/DB

YORK REGION SEWAGE WORKS PROJECT
MARKHAM COLLECTOR TWINNING (Y2)

CONCEPTUAL DRAWINGS

PLAN AND PROFILE
STA 4+900 TO STA 5+600

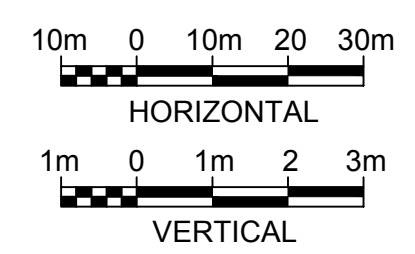
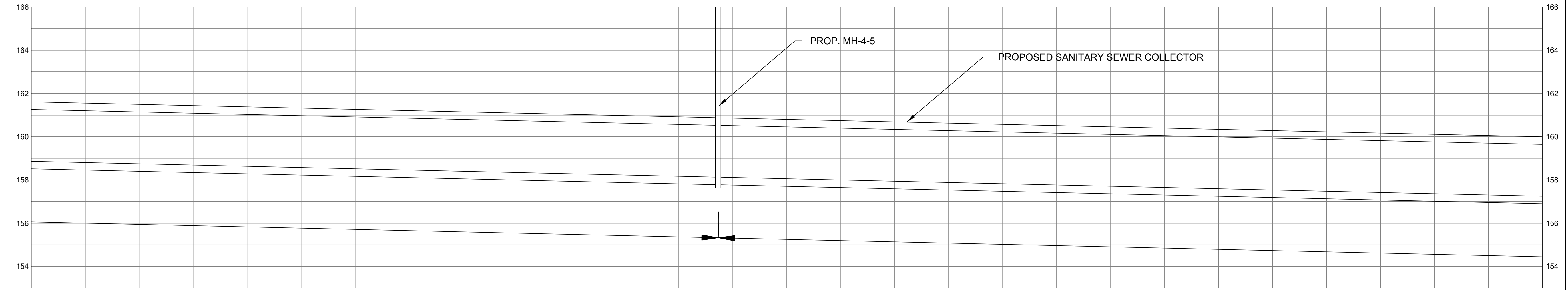
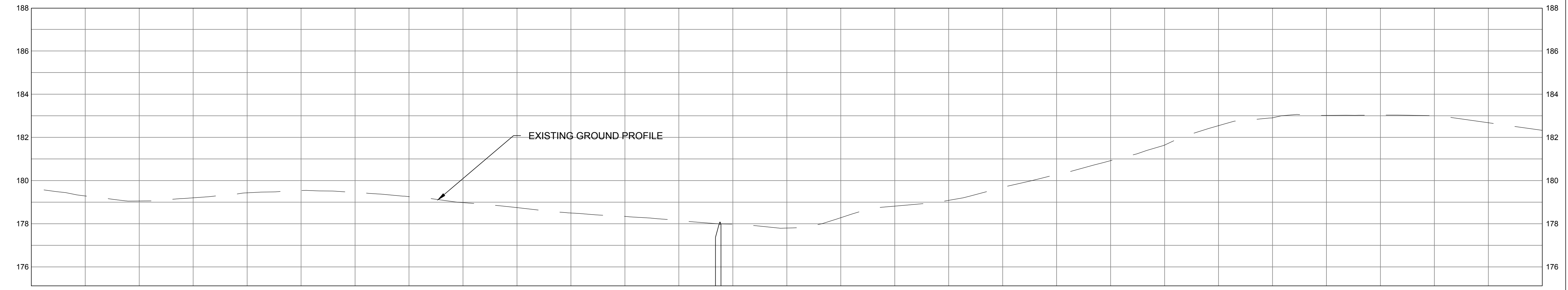
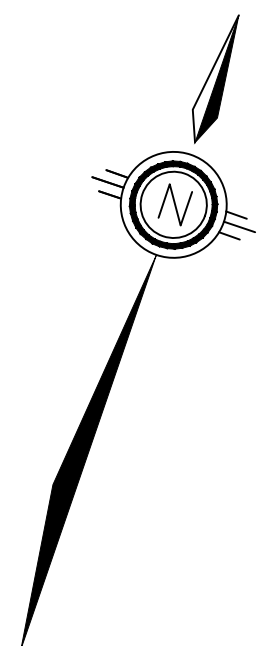
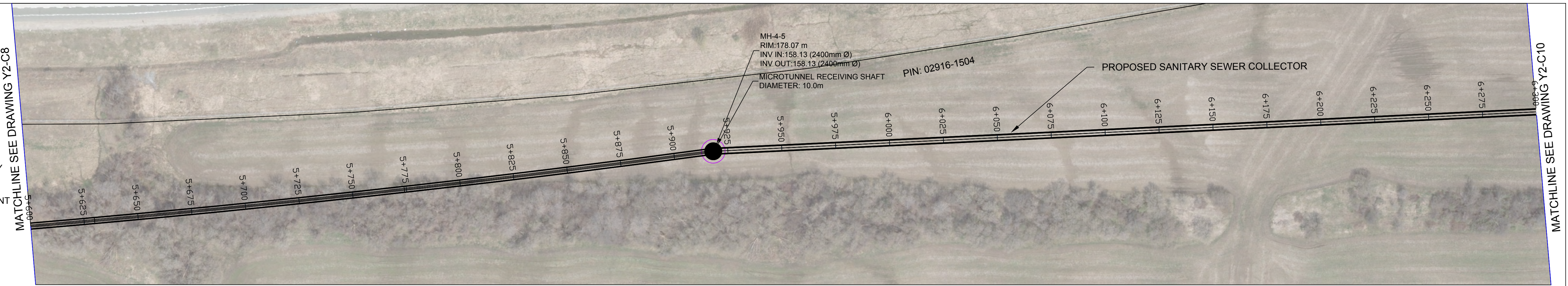
SCALE H = 1:1000 V = 1:100
DWG. NO. Y2-C8
CLIENT REF. NO. 75320-EI18031
SHEET NO. 8

SCALE CHECK

UTILITY LEGEND

- EXISTING SANITARY
- EXISTING STORM
- EXISTING WATER
- EXISTING GAS
- EXISTING TELECOM
- = PROPOSED SANITARY ALIGNMENT
- = PROPOSED ALIGNMENT CHAINAGE

NOTE: EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND OBTAINED FROM AS-BUILT AND GIS DATA.



STRUCTURE NAME	
GROUND EL. (m)	
PIPE INVERT LEVEL (m)	
PIPE LINE CHAINAGE (m)	<div style="display: flex; justify-content: space-between; font-size: 8px;"> 5+600.00 5+625.00 5+650.00 5+675.00 5+700.00 5+725.00 5+750.00 5+775.00 5+800.00 5+825.00 5+850.00 5+875.00 5+900.00 5+925.00 5+950.00 5+975.00 6+000.00 6+025.00 6+050.00 6+075.00 6+100.00 6+125.00 6+150.00 6+175.00 6+200.00 6+225.00 6+250.00 6+275.00 6+300.00 </div>

File Location: C:\Users\H068592\OneDrive - Jacobs\Y2-MarkhamCollector\Y2-Conceptual Drawings\WIP\MUN\Sheets\Y2-C9.dwg Last Saved: August 25, 2023, by H068592 Plotted: August 25, 2023

THE LOCATION OF UTILITIES IS APPROXIMATE ONLY, AND THE EXACT LOCATION SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL PROVE THE LOCATION OF UTILITIES AND SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION FROM DAMAGE DURING CONSTRUCTION.

CONSULTANT

Jacobs

No.	DATE	REVISIONS	BY
0	AUG 2023	ISSUED FOR CONCEPTUAL DESIGN	CA

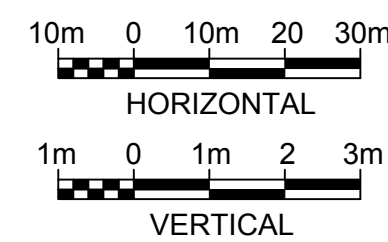
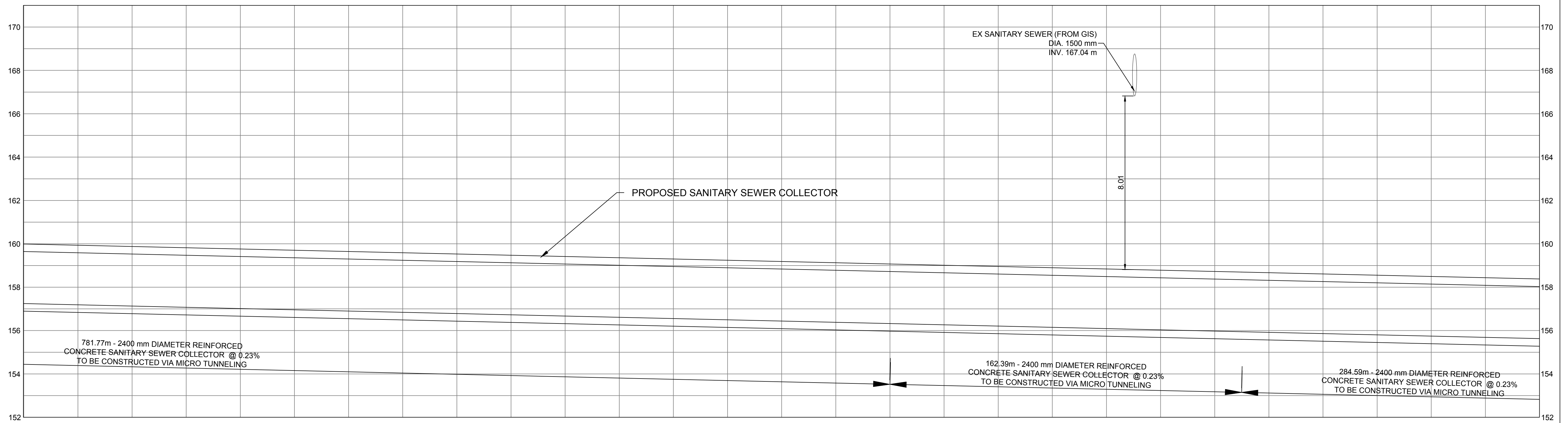
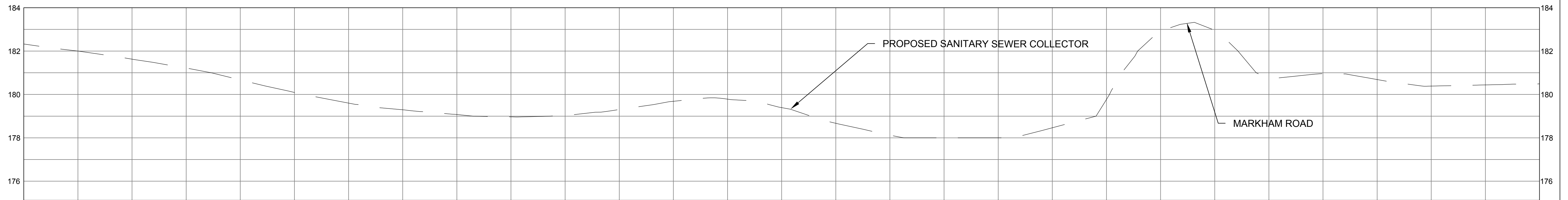
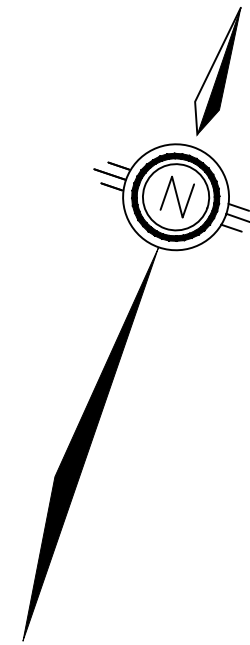
DATE AUG. 2023	YORK REGION SEWAGE WORKS PROJECT MARKHAM COLLECTOR TWINNING (Y2) CONCEPTUAL DRAWINGS PLAN AND PROFILE STA 5+600 TO STA 6+300	SCALE H = 1:1000 V = 1:100
DESIGN IH		DWG. NO. Y2-C9
DRAWN CA		CLIENT REF. NO. 75320-EI18031
CHECKED PP/DB		SHEET NO. 9

SCALE CHECK

UTILITY LEGEND

- EXISTING SANITARY
- EXISTING STORM
- EXISTING WATER
- EXISTING GAS
- EXISTING TELECOM
- PROPOSED SANITARY ALIGNMENT
- PROPOSED ALIGNMENT CHAINAGE

NOTE: EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND OBTAINED FROM AS-BUILT AND GIS DATA.



STRUCTURE NAME	
GROUND EL. (m)	
PIPE INVERT LEVEL (m)	
PIPE LINE CHAINAGE (m)	

6+300.00	6+325.00	6+350.00	6+375.00	6+400.00	6+425.00	6+450.00	6+475.00	6+500.00	6+525.00	6+550.00	6+575.00	6+600.00	6+625.00	6+650.00	6+675.00	6+700.00	6+725.00	6+750.00	6+775.00	6+800.00	6+825.00	6+850.00	6+875.00	6+900.00	6+925.00	6+950.00	6+975.00	7+000.00
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File Location: C:\Users\jhd68592\OneDrive - Jacobs\12-MarkhamCollector\12-Conceptual Drawings\12-C10.dwg Last Saved: August 8, 2023, by jhd68592 Plotted: August 25, 2023

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CONSULTANT

Jacobs

SEAL

No.	DATE	REVISIONS	BY
0	AUG 2023	ISSUED FOR CONCEPTUAL DESIGN	CA

Regional Municipality of York

DATE AUG. 2023	YORK REGION SEWAGE WORKS PROJECT MARKHAM COLLECTOR TWINNING (Y2)	SCALE H = 1:1000 V = 1:100
DESIGN IH		DWG. NO. Y2-C10
DRAWN CA		CLIENT REF. NO. 75320-EI18031
CHECKED PP/DB		SHEET NO. 10

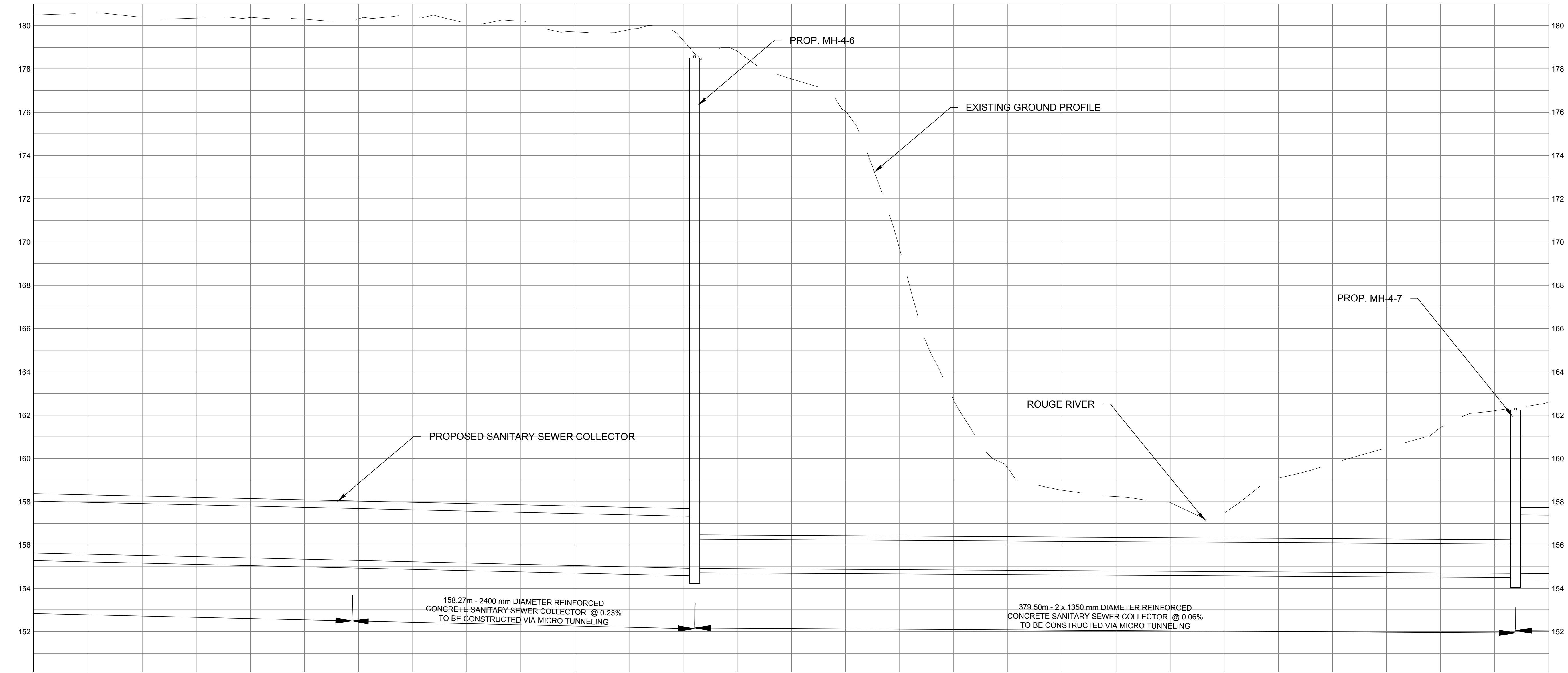
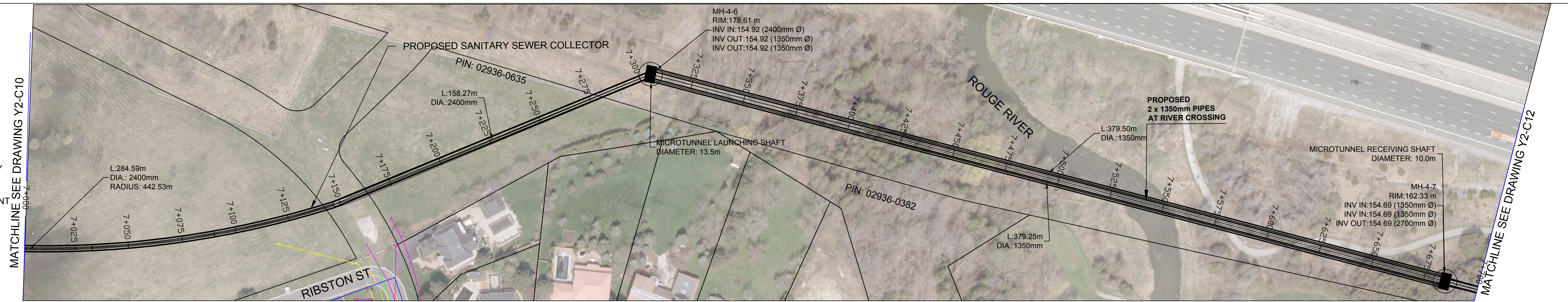
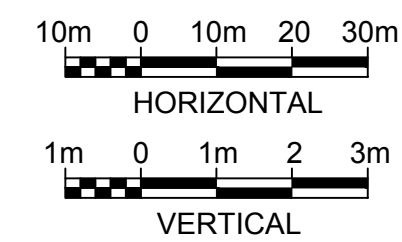
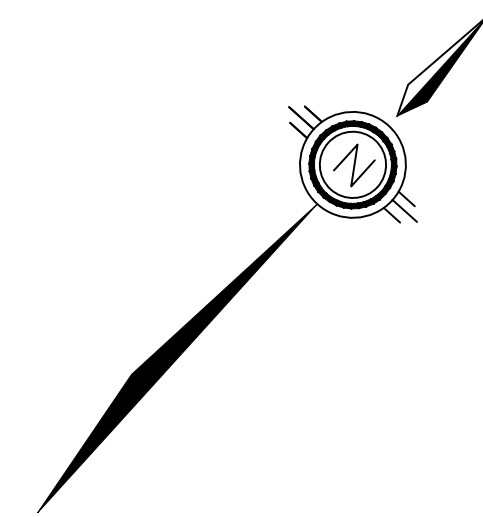
CONCEPTUAL DRAWINGS
PLAN AND PROFILE
STA 6+300 TO STA 7+000

SCALE CHECK

UTILITY LEGEND

- EXISTING SANITARY
- EXISTING STORM
- EXISTING WATER
- EXISTING GAS
- EXISTING TELECOM
- PROPOSED SANITARY ALIGNMENT
- PROPOSED ALIGNMENT CHAINAGE

NOTE:
 1. EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND OBTAINED FROM AS-BUILT AND GIS DATA.
 2. THE PIPE COVER WILL BE EXAMINED UPON THE COMPLETION OF THE ROUGE RIVER BED SURVEY DURING THE PRELIMINARY DESIGN STAGE



STRUCTURE NAME	GROUND EL. (m)	PIPE INVERT LEVEL (m)	PIPE LINE CHAINAGE (m)
		152.00	7+000.00
		152.00	7+025.00
		152.00	7+050.00
		152.00	7+075.00
		152.00	7+100.00
		152.00	7+125.00
		152.00	7+150.00
		152.00	7+175.00
		152.00	7+200.00
		152.00	7+225.00
		152.00	7+250.00
		152.00	7+275.00
		152.00	7+300.00
		152.00	7+325.00
		152.00	7+350.00
		152.00	7+375.00
		152.00	7+400.00
		152.00	7+425.00
		152.00	7+450.00
		152.00	7+475.00
		152.00	7+500.00
		152.00	7+525.00
		152.00	7+550.00
		152.00	7+575.00
		152.00	7+600.00
		152.00	7+625.00
		152.00	7+650.00
		152.00	7+675.00
		152.00	7+700.00

CONSULTANT
Jacobs

No.	DATE	REVISIONS	BY
1	SEP 2023	NOTE ADDED AS PER TRCA COMMENTS	IH
0	AUG 2023	ISSUED FOR CONCEPTUAL DESIGN	CA










DATE
AUG. 2023
 DESIGN
IH
 DRAWN
CA
 CHECKED
PP/DB

YORK REGION SEWAGE WORKS PROJECT
 MARKHAM COLLECTOR TWINNING (Y2)
 CONCEPTUAL DRAWINGS
 PLAN AND PROFILE
 STA 7+000 TO STA 7+700

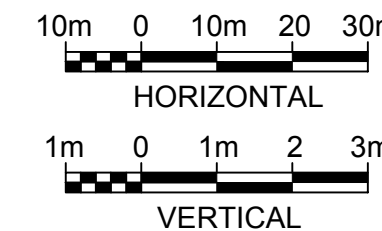
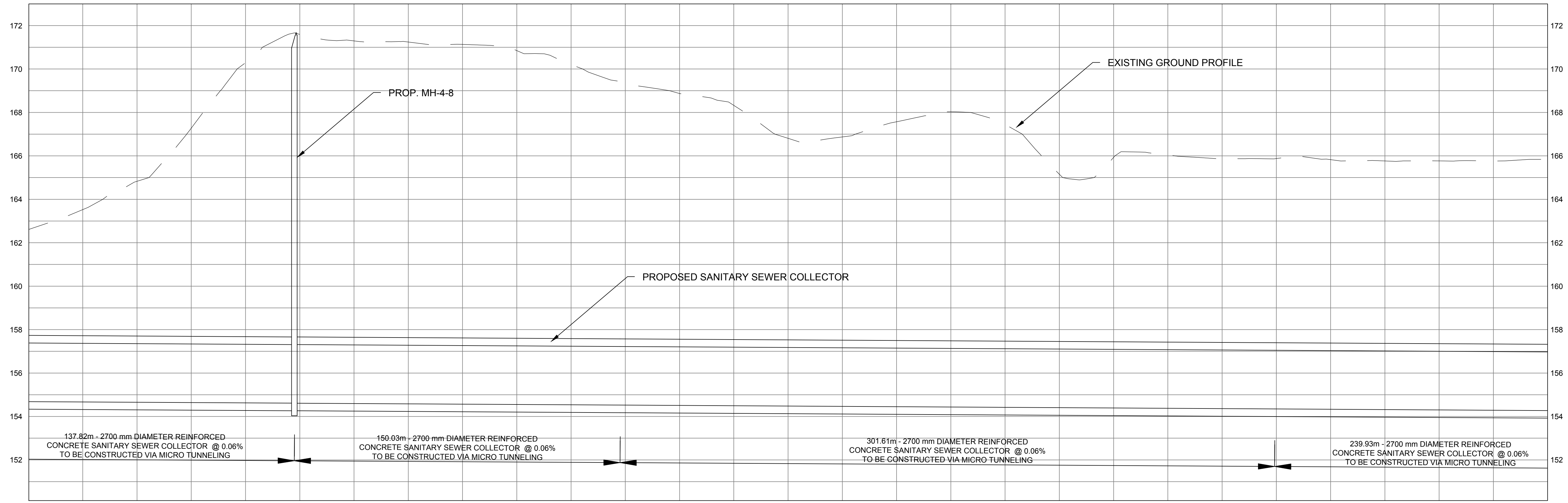
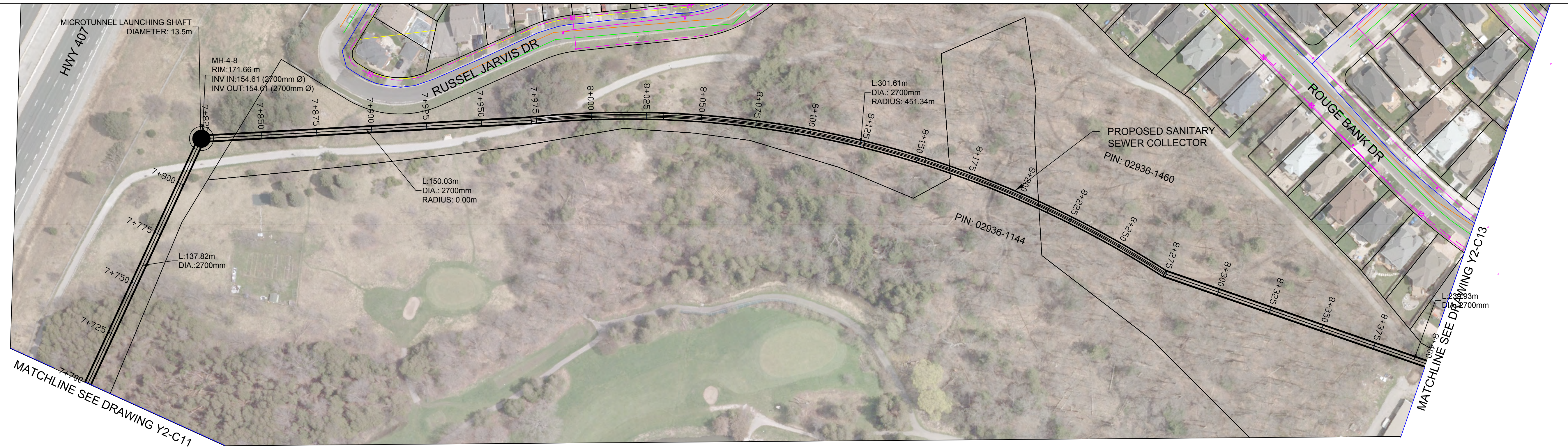
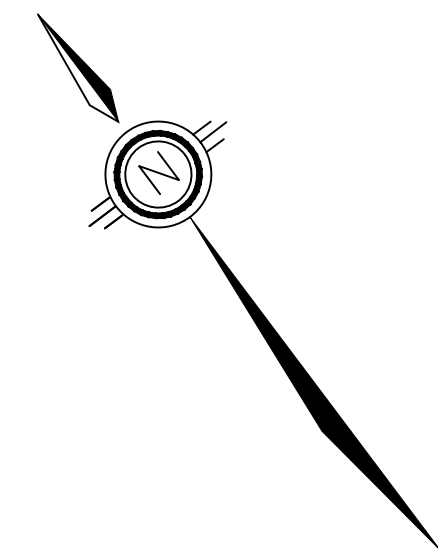
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 DWG. NO.
 Y2-C11
 CLIENT REF. NO.
 75320-EI18031
 SHEET NO.
 11

File Location: C:\Users\IH068592\Desktop\Drive - Jacobs\Y2-MarkhamCollector\Y2-Conceptual Drawings\WIP\MUN\Sheets\Y2-C11.dwg Last Saved: September 5, 2023, by IH068592 Plotted: September 5, 2023

UTILITY LEGEND

-  EXISTING SANITARY
-  EXISTING STORM
-  EXISTING WATER
-  EXISTING GAS
-  EXISTING TELECOM
-  PROPOSED SANITARY ALIGNMENT
-  PROPOSED ALIGNMENT CHAINAGE

NOTE: EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND OBTAINED FROM AS-BUILT AND GIS DATA.



STRUCTURE NAME	GROUND EL. (m)	PIPE INVERT LEVEL (m)	PIPE LINE CHAINAGE (m)
			7+700.00
			7+725.00
			7+750.00
			7+775.00
			7+800.00
			7+825.00
			7+850.00
			7+875.00
			7+900.00
			7+925.00
			7+950.00
			7+975.00
			8+000.00
			8+025.00
			8+050.00
			8+075.00
			8+100.00
			8+125.00
			8+150.00
			8+175.00
			8+200.00
			8+225.00
			8+250.00
			8+275.00
			8+300.00
			8+325.00
			8+350.00
			8+375.00
			8+400.00

File Location: C:\Users\IH068592\OneDrive - Jacobs\Y2-MarkhamCollector\Y2-Conceptual Drawings\WIP\MUN\Sheets\Y2-C12.dwg Last Saved: August 25, 2023 by IH068592 Plotter: August 25, 2023

THE LOCATION OF UTILITIES IS APPROXIMATE ONLY, AND THE EXACT LOCATION SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL PROVE THE LOCATION OF UTILITIES AND SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION FROM DAMAGE DURING CONSTRUCTION.



CONSULTANT	SEAL
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No.	DATE	REVISIONS	BY
0	AUG 2023	ISSUED FOR CONCEPTUAL DESIGN	CA



Regional Municipality of York

DATE	AUG. 2023
DESIGN	IH
DRAWN	CA
CHECKED	PP/DB

**YORK REGION SEWAGE WORKS PROJECT
MARKHAM COLLECTOR TWINNING (Y2)**

CONCEPTUAL DRAWINGS

PLAN AND PROFILE
STA 7+700 TO STA 8+400

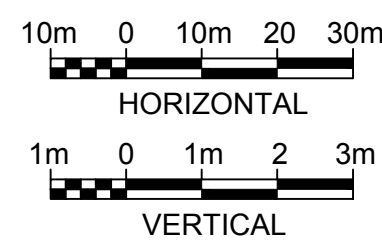
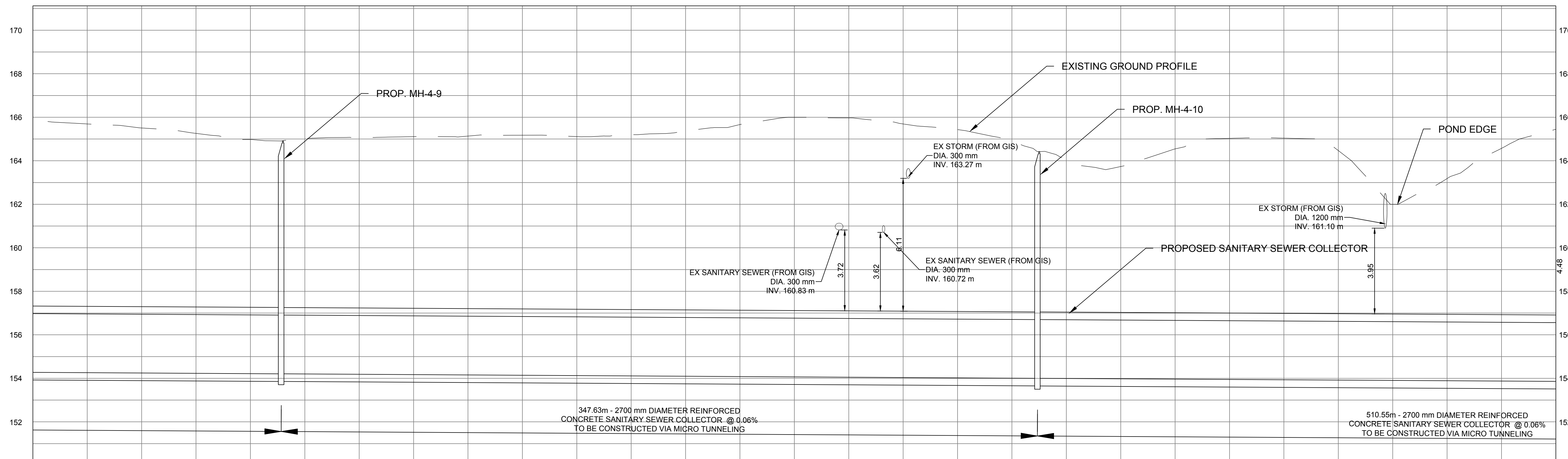
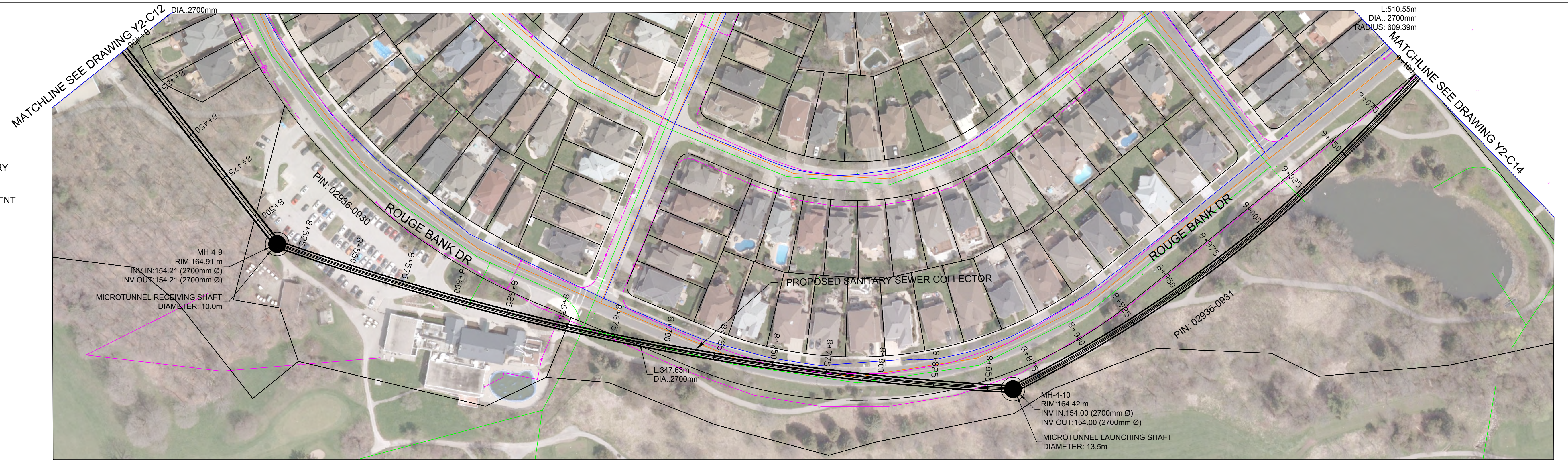
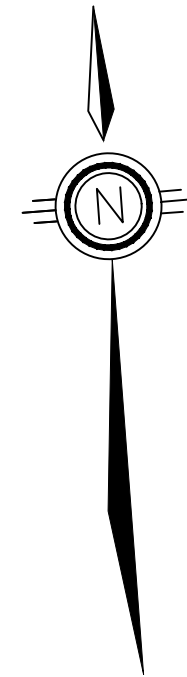
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DWG. NO.	Y2-C12
CLIENT REF. NO.	75320-EI18031
SHEET NO.	12

SCALE CHECK

UTILITY LEGEND

- EXISTING SANITARY
- EXISTING STORM
- EXISTING WATER
- EXISTING GAS
- EXISTING TELECOM
- = PROPOSED SANITARY ALIGNMENT
- = PROPOSED ALIGNMENT CHAINAGE

NOTE: EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND OBTAINED FROM AS-BUILT AND GIS DATA.



STRUCTURE NAME	GROUND EL. (m)	PIPE INVERT LEVEL (m)	PIPE LINE CHAINAGE (m)
		154.206	8+537.8
		154.000	8+854.0

File Location: C:\Users\jhd68592\OneDrive - Jacobs\Y2-MarkhamCollector\Y2-Conceptual Drawings\WIP\JUN\Sheets\Y2-C13.dwg Last Saved: August 9, 2023, by jhd68592 Plotted: August 25, 2023

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No.	DATE	REVISIONS	BY
0	AUG 2023	ISSUED FOR CONCEPTUAL DESIGN	CA



Regional Municipality of York

DATE	AUG. 2023
DESIGN	IH
DRAWN	CA
CHECKED	PP/DB

**YORK REGION SEWAGE WORKS PROJECT
MARKHAM COLLECTOR TWINNING (Y2)**

CONCEPTUAL DRAWINGS

PLAN AND PROFILE

STA 8+400 TO STA 9+100

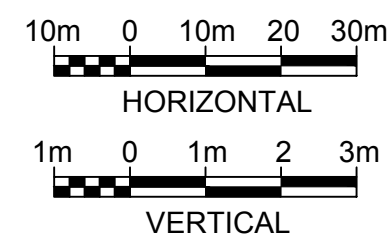
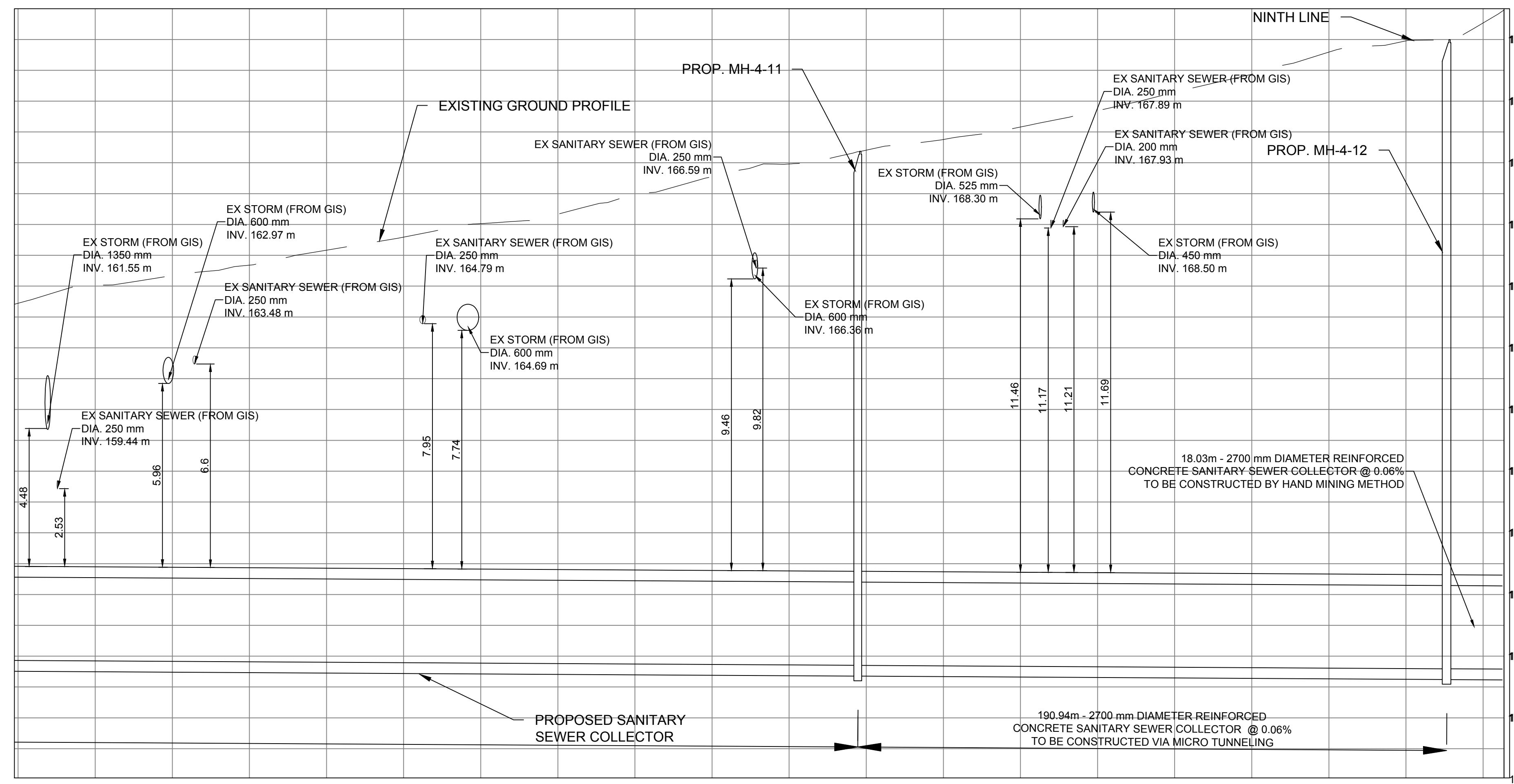
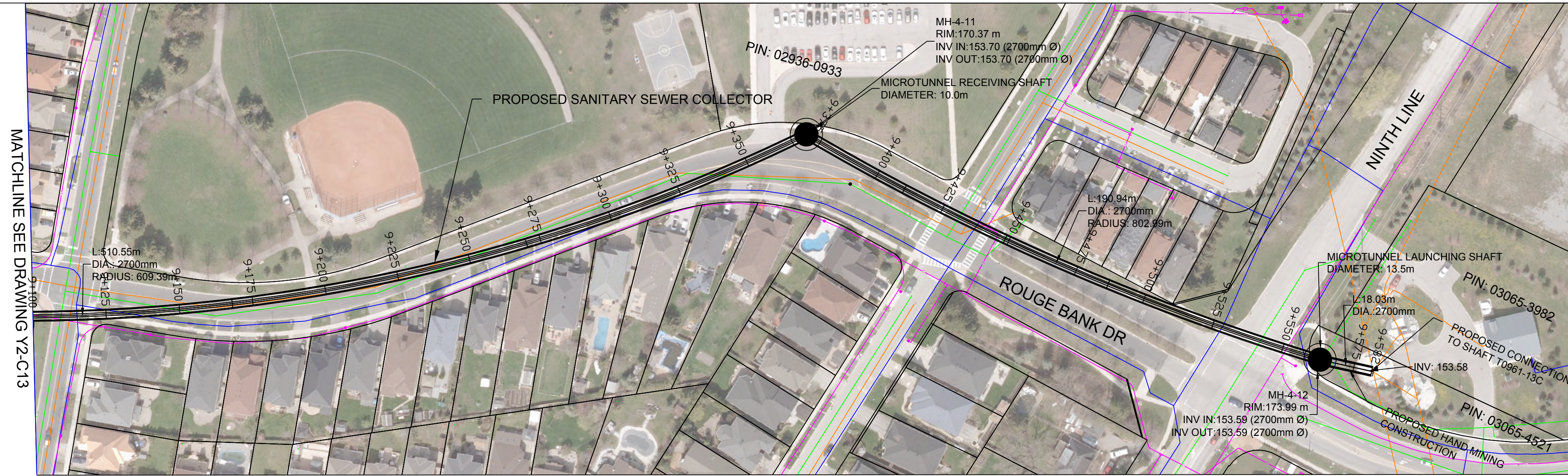
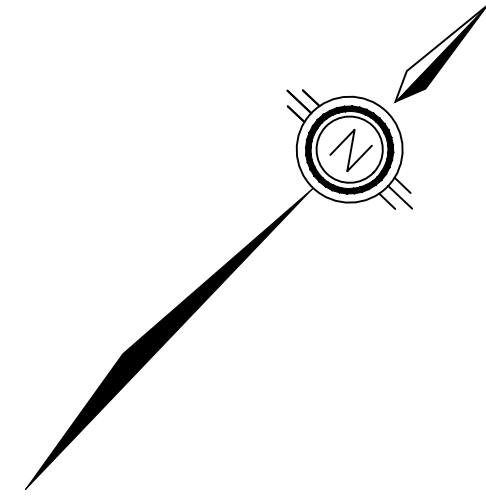
SCALE	H = 1:1000 V = 1:100
DWG. NO.	Y2-C13
CLIENT REF. NO.	75320-EI18031
SHEET NO.	13

SCALE CHECK

UTILITY LEGEND

- EXISTING SANITARY
- EXISTING STORM
- EXISTING WATER
- EXISTING GAS
- EXISTING TELECOM
- = PROPOSED SANITARY ALIGNMENT
- = PROPOSED ALIGNMENT CHAINAGE

NOTE: EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND OBTAINED FROM AS-BUILT AND GIS DATA.



STRUCTURE NAME	GROUND EL. (m)	PIPE INVERT LEVEL (m)	PIPE LINE CHAINAGE (m)

STRUCTURE NAME	GROUND EL. (m)	PIPE INVERT LEVEL (m)	PIPE LINE CHAINAGE (m)

File Location: C:\Users\H068592\OneDrive - Jacobs\Y2-MarkhamCollector\Y2-Conceptual Drawings\WIP\MUN\Sheets\Y2-C14.dwg Last Saved: August 9, 2023, by H068592 Plotted: August 25, 2023

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CONSULTANT

SEAL

No.	DATE	REVISIONS	BY
0	AUG 2023	ISSUED FOR CONCEPTUAL DESIGN	CA



Regional Municipality of York

DATE	AUG. 2023
DESIGN	IH
DRAWN	CA
CHECKED	PP/DB

YORK REGION SEWAGE WORKS PROJECT
 MARKHAM COLLECTOR TWINNING (Y2)
 CONCEPTUAL DRAWINGS
 PLAN AND PROFILE
 STA 9+100 TO STA 9+600

SCALE	H = 1:1000 V = 1:100
DWG. NO.	Y2-C14
CLIENT REF. NO.	75320-EI18031
SHEET NO.	14

SCALE CHECK