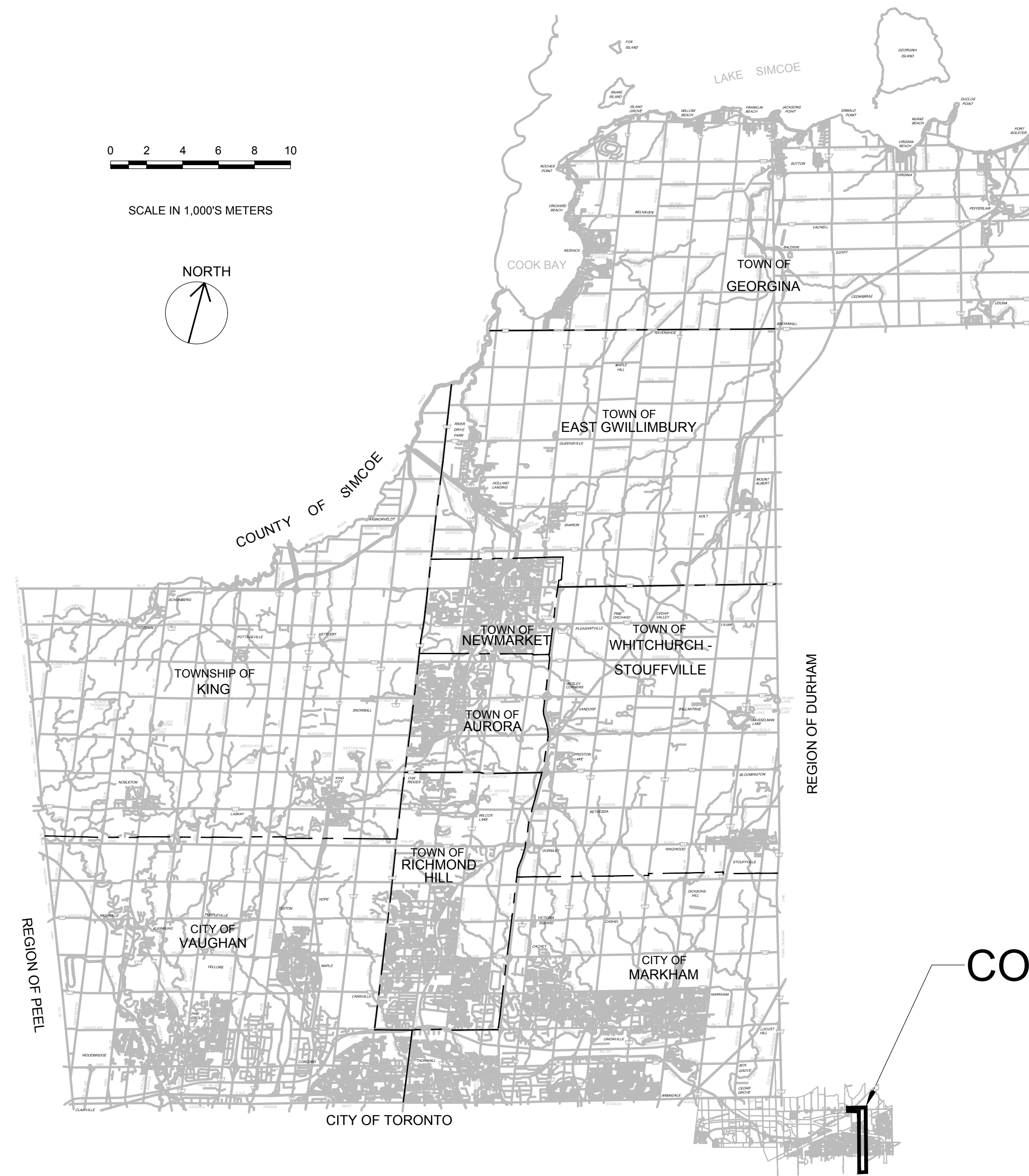




YORK REGION SEWAGE WORKS - PROJECT REPORT  
YDSS PRIMARY SYSTEM EXPANSION - P3  
THE REGIONAL MUNICIPALITY OF YORK  
THE REGIONAL MUNICIPALITY OF DURHAM



CONTRACT SITE

W. EMMERSON  
REGIONAL CHAIR

E. MAHONEY  
COMMISSIONER OF PUBLIC WORKS

ISSUED FOR CONCEPTUAL DESIGN  
SEPTEMBER 2023



File Location: C:\Users\IH068592\OneDrive - Jacobs\P3 - Primary Trunk Twinning\P3-Conceptual Drawings\WIP\MUN\Sheets\P3-DWGLIST.dwg Last Saved: September 20, 2023, by IH068592 Plotted: September 20, 2023

**DRAWING INDEX**

GENERAL	DWG. No.	DRAWING DESCRIPTION
1	P3 - COVER	COVER SHEET
2	P3 - INDEX	DRAWING INDEX
3	P3 - DWGLIST	DRAWING LIST

**PLAN AND PROFILE**

SHEET NO.	DRAWING NUMBER	DRAWING DESCRIPTION
1	P3-C1	PLAN AND PROFILE - STA 0+000 TO STA 0+700
2	P3-C2	PLAN AND PROFILE - STA 0+700 TO STA 1+400
3	P3-C3	PLAN AND PROFILE - STA 1+400 TO STA 2+100
4	P3-C4	PLAN AND PROFILE - STA 2+100 TO STA 2+800
5	P3-C5	PLAN AND PROFILE - STA 2+800 TO STA 3+500
6	P3-C6	PLAN AND PROFILE - STA 3+500 TO STA 4+200
7	P3-C7	PLAN AND PROFILE - STA 4+200 TO STA 4+900
8	P3-C8	PLAN AND PROFILE - STA 4+900 TO STA 5+223
9	P3-C9	PLAN AND PROFILE - STA 5+223 TO STA 5+629 (WEST)
10	P3-C10	PLAN AND PROFILE - STA 5+223 TO STA 5+594 (EAST)

NO.	DATE	NAME	REVISION
1	SEPT 2023	IH	CLIENT'S COMMENTS INCORPORATED
0	AUG 2023	GH	ISSUED FOR CONCEPTUAL DESIGN

DESIGNED	I.HAMDAN	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.
DRAFTED	G.HARTLEY	
CHECKED	P.PARMAR	
APPROVED	D.BONTU	

VERIFY SCALE	
SCALE	N.T.S

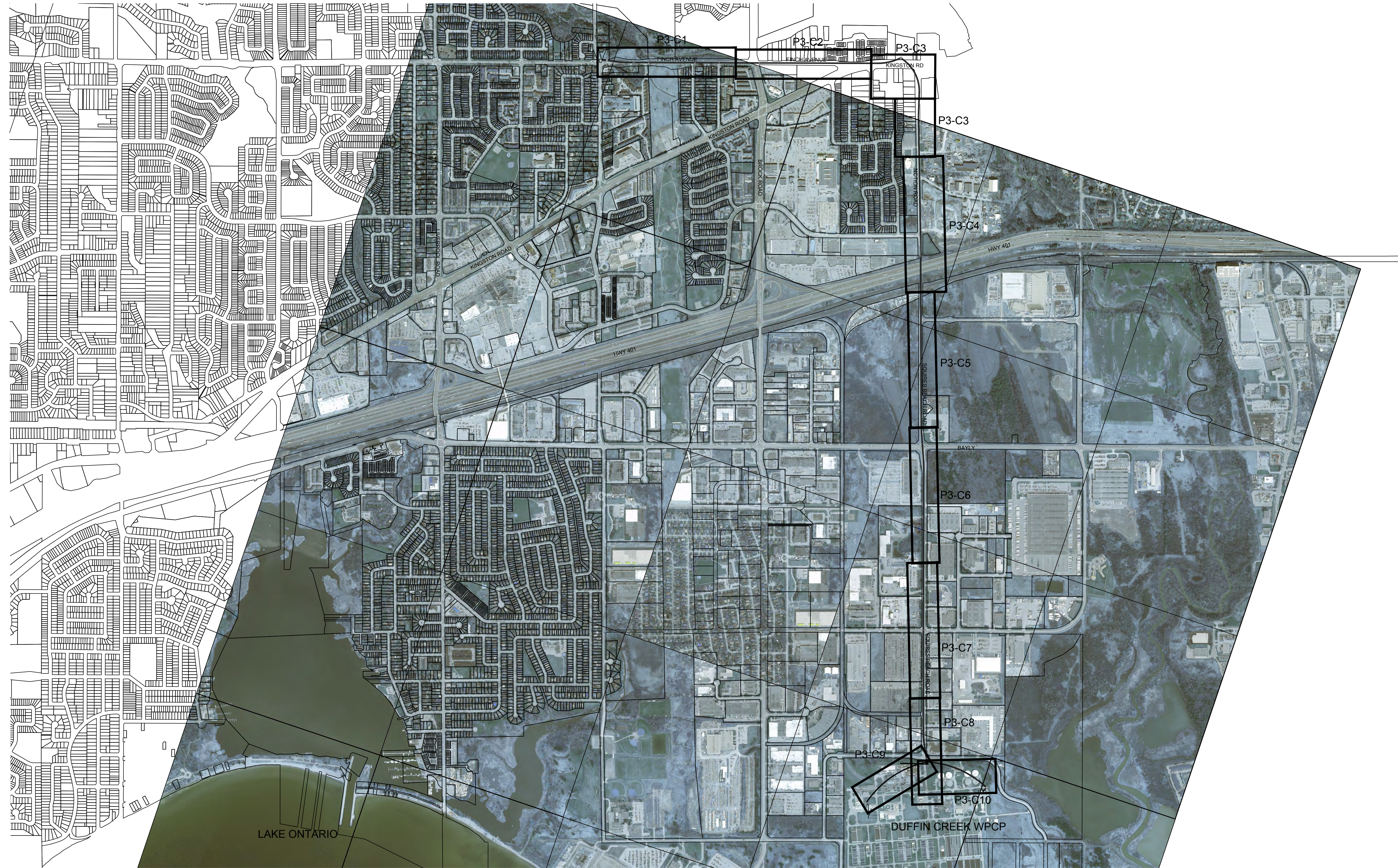


YORK REGION SEWAGE WORKS PROJECT  
PRIMARY TRUNK TWINNING (P3)

CONCEPTUAL DRAWINGS  
DRAWING LIST

SHEET NUMBER	
DRAWING NUMBER	P3-DWGLIST
CONTRACT NUMBER	

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NO.	DATE	NAME	REVISION
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0	AUG 2023	GH	ISSUED FOR CONCEPTUAL DESIGN

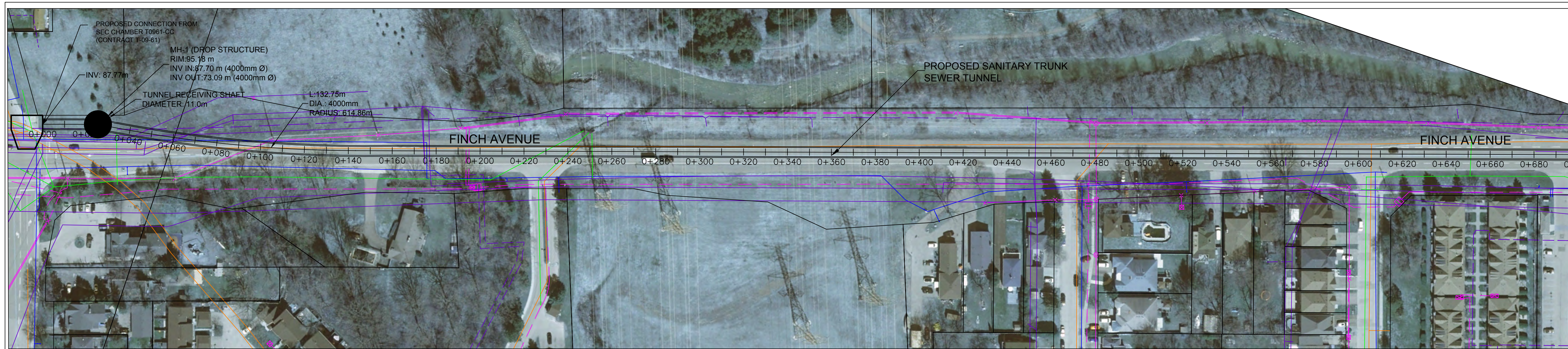
DESIGNED	I.HAMDAN	THE LOCATION OF UTILITIES IS APPROXIMATE ONLY, AND THE EXACT LOCATION SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL PROVE THE LOCATION OF UTILITIES AND SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION FROM DAMAGE DURING CONSTRUCTION.
DRAFTED	G.HARTLEY	
CHECKED	P.PARMAR	
APPROVED	D.BONTU	

VERIFY SCALE	
SCALE	N.T.S.



YORK REGION SEWAGE WORKS PROJECT PRIMARY TRUNK TWINNING (P3)
CONCEPTUAL DRAWINGS PLAN AND PROFILE SHEET INDEX

SHEET NUMBER	INDEX
DRAWING NUMBER	P3-INDEX
CONTRACT NUMBER	

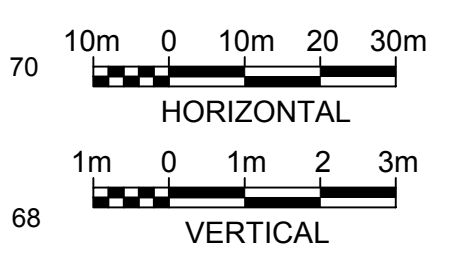
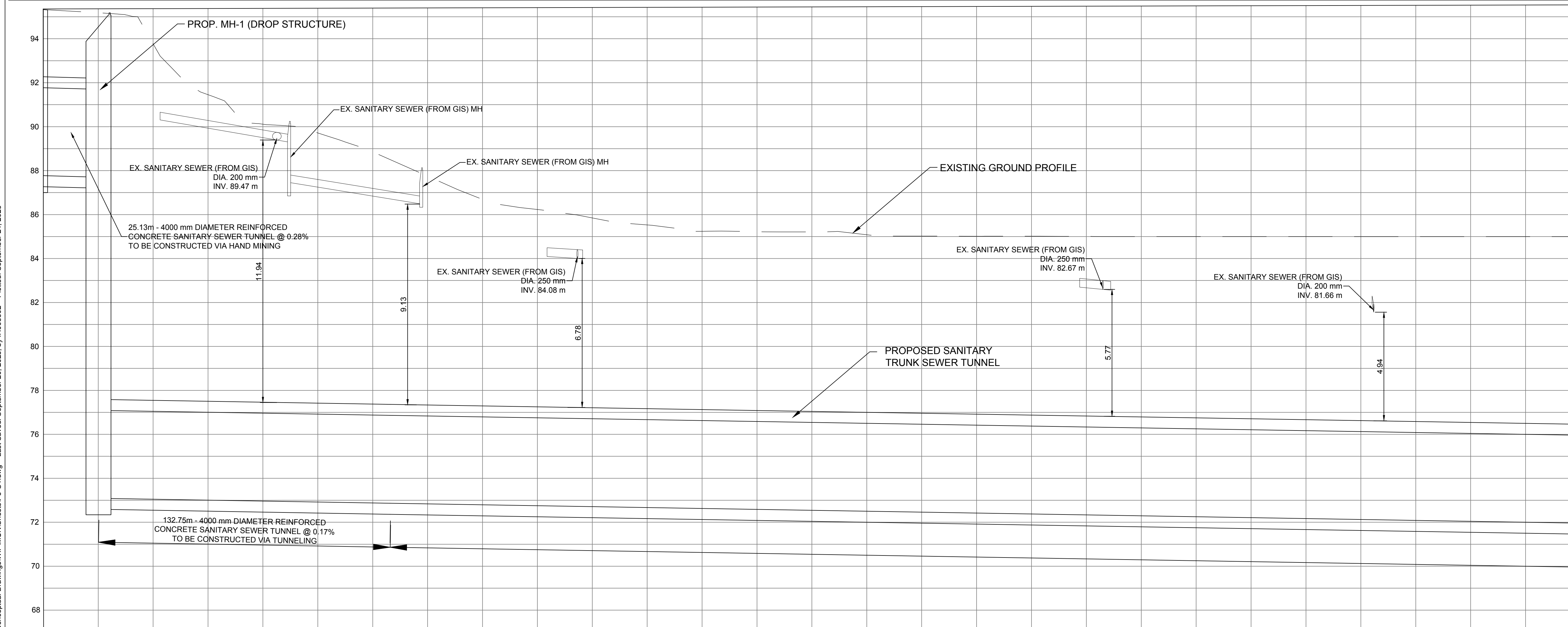
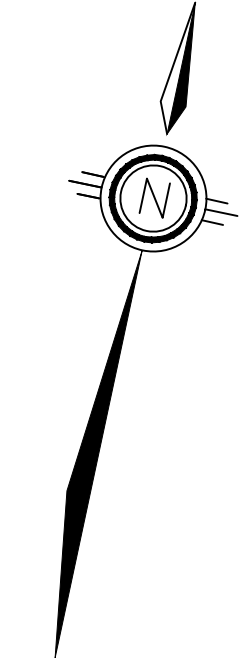


**UTILITY LEGEND**

- EXISTING SANITARY
- EXISTING STORM
- EXISTING WATER
- EXISTING GAS
- EXISTING TELECOM (ROGERS)
- EXISTING POWER (ELEXICON ENERGY)
- PROPOSED SANITARY ALIGNMENT
- PROPOSED ALIGNMENT CHAINAGE

MATCH LINE STA. 0+700 SEE SHEET P3-C2

NOTE: EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND OBTAINED FROM GIS DATA AND AVAILABLE AS-BUILT. THESE SHALL BE FURTHER REFINED DURING THE PRELIMINARY DESIGN STAGE ONCE MORE INFORMATION AND RECORD DRAWINGS BECOME AVAILABLE.



STRUCTURE NAME	GROUND EL. (m)	PIPE INVERT LEVEL (m)	PIPE LINE CHAINAGE (m)
EX. CHAMBER T0961-CC	87.70	87.70	0+000.00
PROP. MH-1 (DROP STRUCTURE)	87.70	87.70	0+000.00
EX. SANITARY SEWER (FROM GIS) MH	89.47	89.47	0+060.00
EX. SANITARY SEWER (FROM GIS) MH	84.08	84.08	0+250.00
EX. SANITARY SEWER (FROM GIS) MH	82.67	82.67	0+475.00
EX. SANITARY SEWER (FROM GIS) MH	81.66	81.66	0+600.00

File Location: C:\Users\IH086892\OneDrive - Jacobs\Projects\Twinning\Drawings\WIP\MUN\Sheets\P3-C1.dwg Last Saved: September 20, 2023, by IH086892 Plotted: September 21, 2023

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0	AUG 2023	GH	ISSUED FOR CONCEPTUAL DESIGN

DESIGNED	DRAFTED	CHECKED	APPROVED
I.HAMDAN	G.HARTLEY	P.PARMAR	D.BONTU

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.

VERIFY SCALE

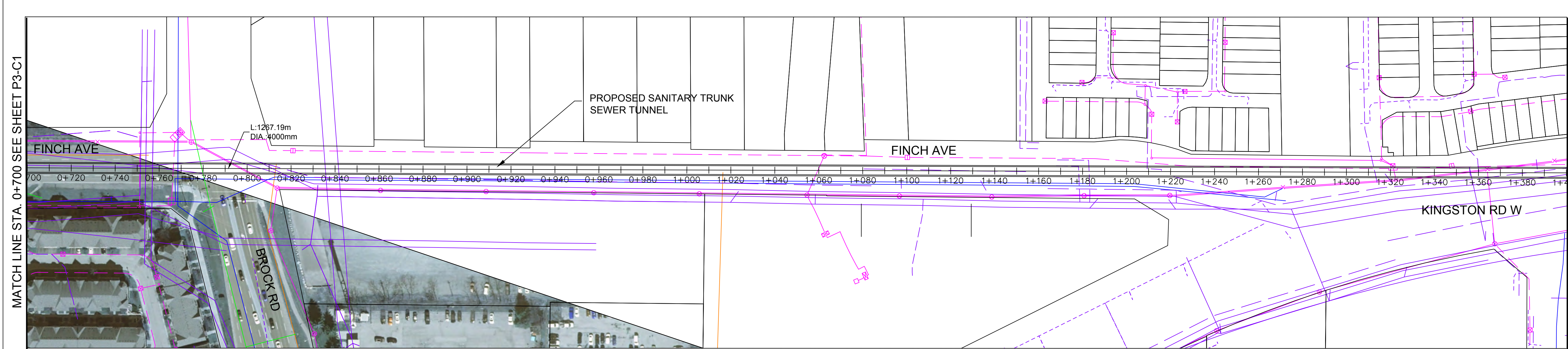
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H = 1:1000  
V = 1:100



YORK REGION SEWAGE WORKS PROJECT  
PRIMARY TRUNK TWINNING (P3)

CONCEPTUAL DRAWINGS  
PLAN AND PROFILE  
STA. 0+00 TO STA. 0+700

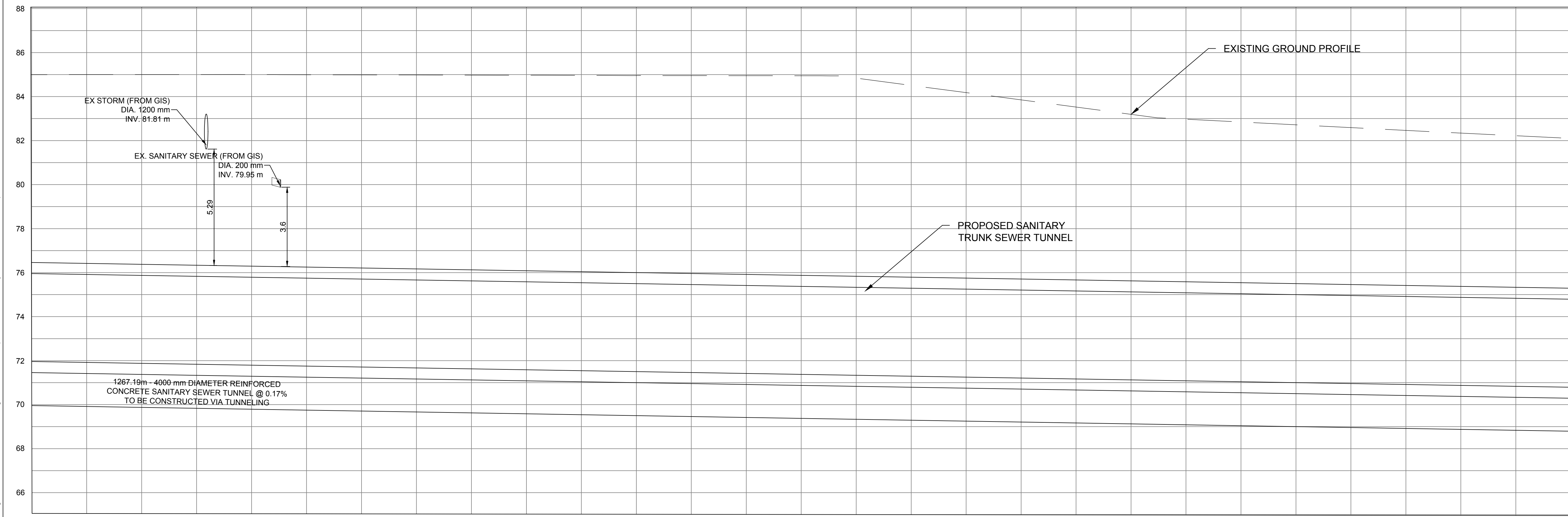
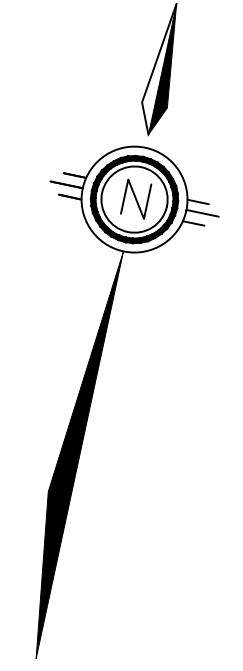
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DRAWING NUMBER	P3-C1
CONTRACT NUMBER	



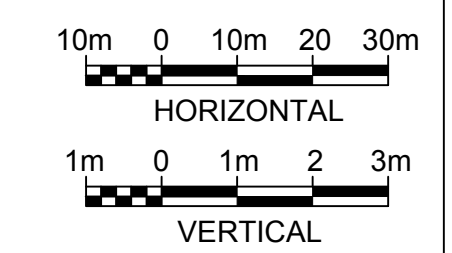
**UTILITY LEGEND**

- EXISTING SANITARY
- EXISTING STORM
- EXISTING WATER
- EXISTING GAS
- EXISTING TELECOM (ROGERS)
- EXISTING POWER (ELEXICON ENERGY)
- PROPOSED SANITARY ALIGNMENT
- PROPOSED ALIGNMENT CHAINAGE

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



File Location: C:\Users\IH086892\OneDrive - Jacobs\Primary Trunk Twinning\Drawings\WIP\MUN\Sheets\P3-C2.dwg Last Saved: September 20, 2023, by IH086892 Plotted: September 21, 2023

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DRAFTED	G.HARTLEY	
CHECKED	P.PARMAR	
APPROVED	D.BONTU	

VERIFY SCALE	
SCALE	H = 1:1000 V = 1:100

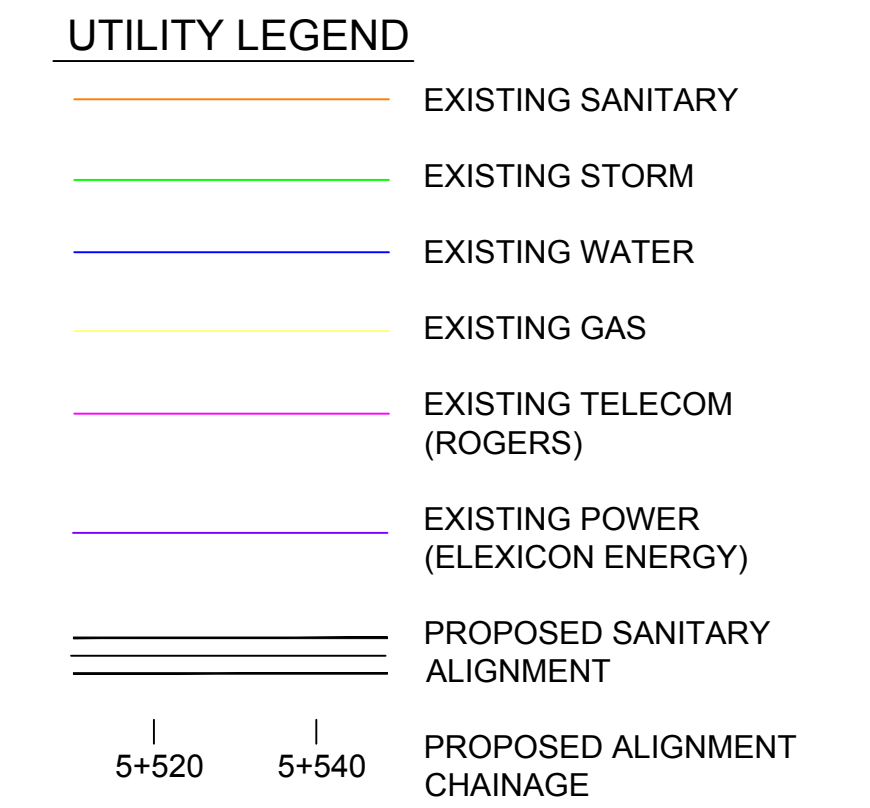
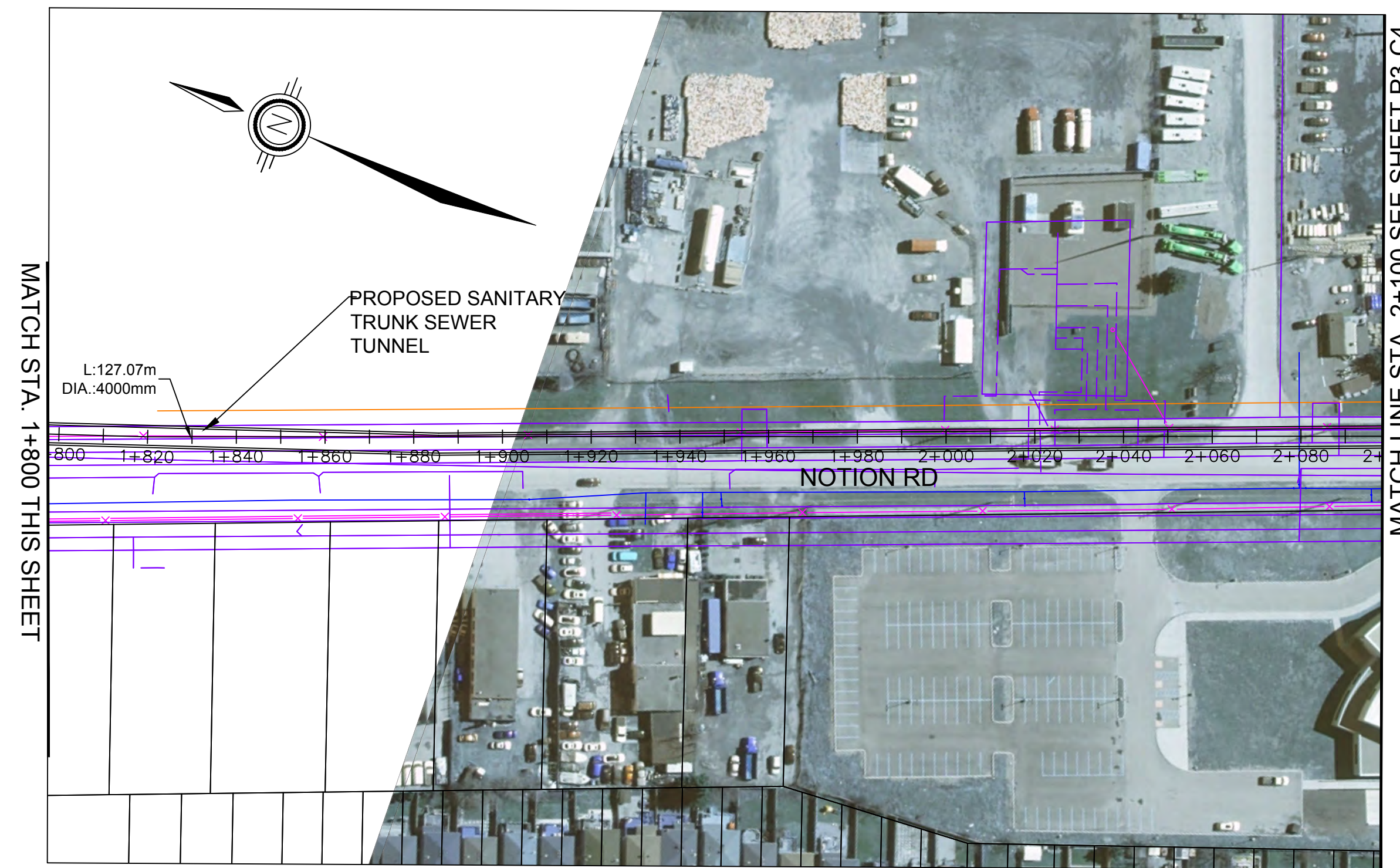
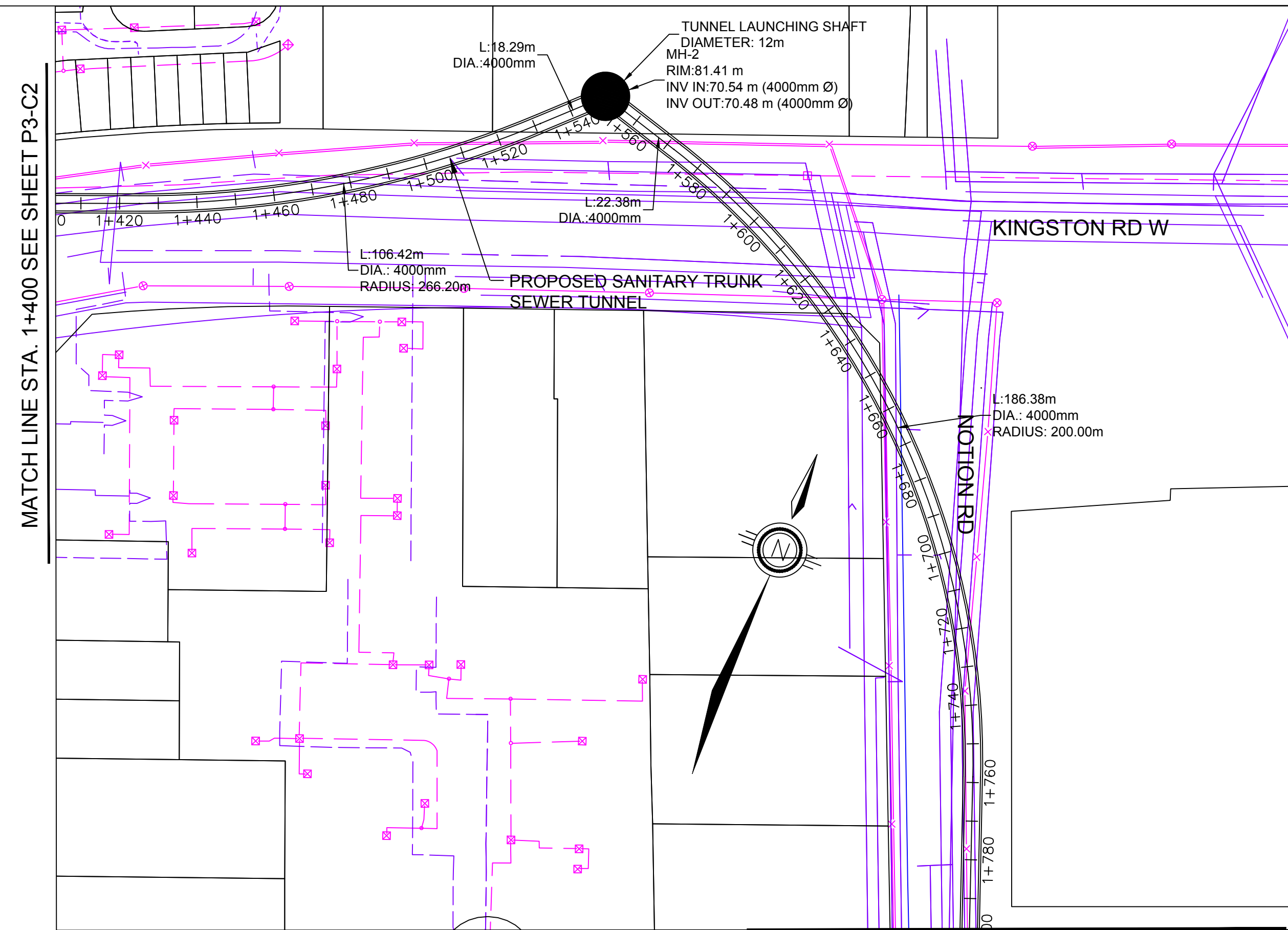


YORK REGION SEWAGE WORKS PROJECT  
PRIMARY TRUNK TWINNING (P3)

CONCEPTUAL DRAWINGS  
PLAN AND PROFILE  
STA. 0+700 TO STA. 1+400

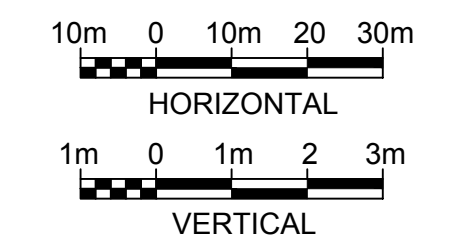
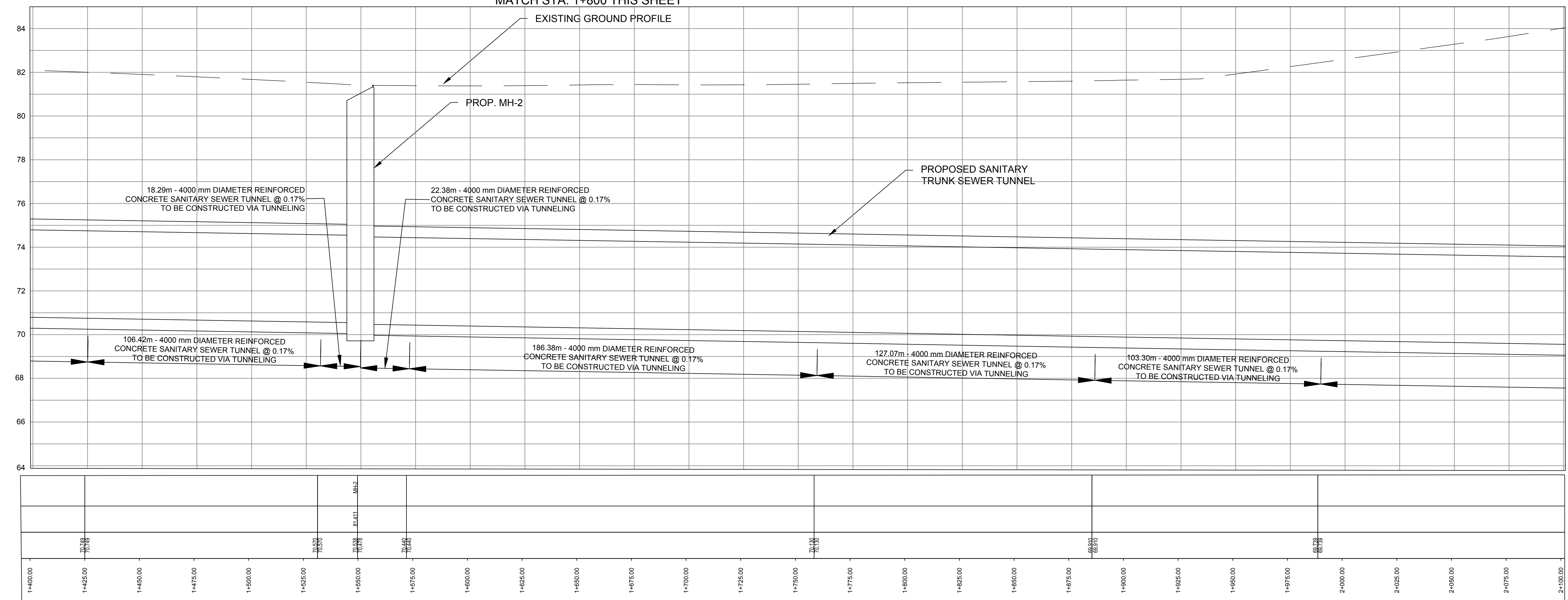
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DRAWING NUMBER	P3-C2
CONTRACT NUMBER	

File Location: C:\Users\IH068592\OneDrive - Jacobs\PP3 - Primary Trunk Twinning\PP3-Conceptual Drawings\WIP\MUN\Sheets\PP3-C3.dwg Last Saved: September 20, 2023, by IH068592 Plotted: September 21, 2023



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MATCH STA. 1+800 THIS SHEET



STRUCTURE NAME	GROUND EL. (m)	PIPE INVERT LEVEL (m)	PIPE LINE CHAINAGE (m)
	70.00	68.50	1+400.00
	70.00	68.50	1+425.00
	70.00	68.50	1+450.00
	70.00	68.50	1+475.00
	70.00	68.50	1+500.00
	70.00	68.50	1+525.00
	70.00	68.50	1+550.00
	70.00	68.50	1+575.00
	70.00	68.50	1+600.00
	70.00	68.50	1+625.00
	70.00	68.50	1+650.00
	70.00	68.50	1+675.00
	70.00	68.50	1+700.00
	70.00	68.50	1+725.00
	70.00	68.50	1+750.00
	70.00	68.50	1+775.00
	70.00	68.50	1+800.00
	70.00	68.50	1+825.00
	70.00	68.50	1+850.00
	70.00	68.50	1+875.00
	70.00	68.50	1+900.00
	70.00	68.50	1+925.00
	70.00	68.50	1+950.00
	70.00	68.50	1+975.00
	70.00	68.50	2+000.00
	70.00	68.50	2+025.00
	70.00	68.50	2+050.00
	70.00	68.50	2+075.00
	70.00	68.50	2+100.00

NO.	DATE	NAME	REVISION
1	SEPT 2023	IH	CLIENT'S COMMENTS INCORPORATED
0	AUG 2023	GH	ISSUED FOR CONCEPTUAL DESIGN

DESIGNED	I.HAMDAN
DRAFTED	G.HARTLEY
CHECKED	P.PARMAR
APPROVED	D.BONTU

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VERIFY SCALE

SCALE

H = 1:1000

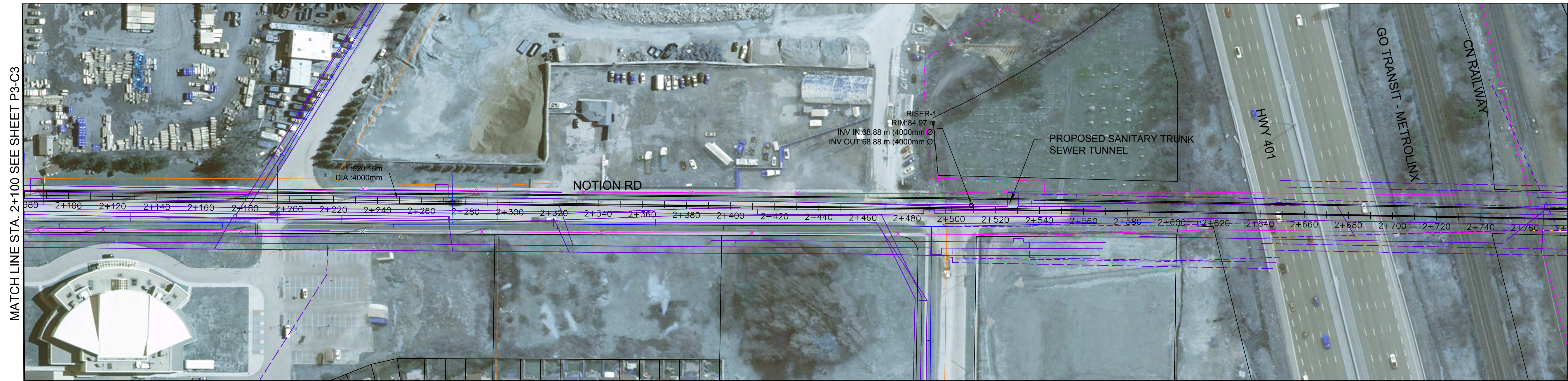
V = 1:100



YORK REGION SEWAGE WORKS PROJECT  
PRIMARY TRUNK TWINNING (P3)

CONCEPTUAL DRAWINGS  
PLAN AND PROFILE  
STA. 1+400 TO STA. 2+100

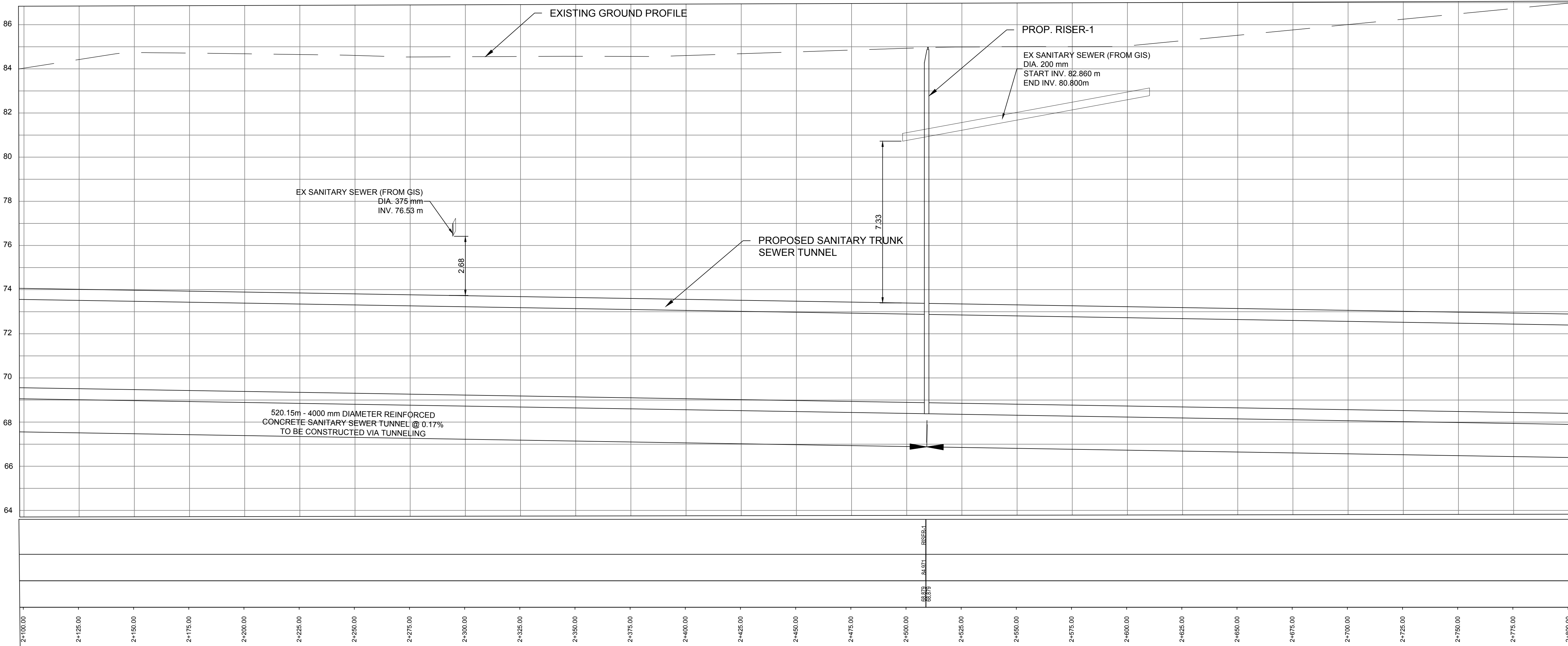
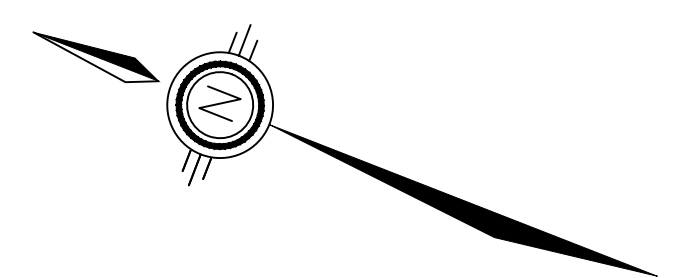
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DRAWING NUMBER	P3-C3
CONTRACT NUMBER	



**UTILITY LEGEND**

- EXISTING SANITARY
- EXISTING STORM
- EXISTING WATER
- EXISTING GAS
- EXISTING TELECOM (ROGERS)
- EXISTING POWER (ELEXICON ENERGY)
- PROPOSED SANITARY ALIGNMENT
- PROPOSED ALIGNMENT CHAINAGE

NOTE: EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND OBTAINED FROM GIS DATA AND AVAILABLE AS-BUILT. THESE SHALL BE FURTHER REFINED DURING THE PRELIMINARY DESIGN STAGE ONCE MORE INFORMATION AND RECORD DRAWINGS BECOME AVAILABLE.



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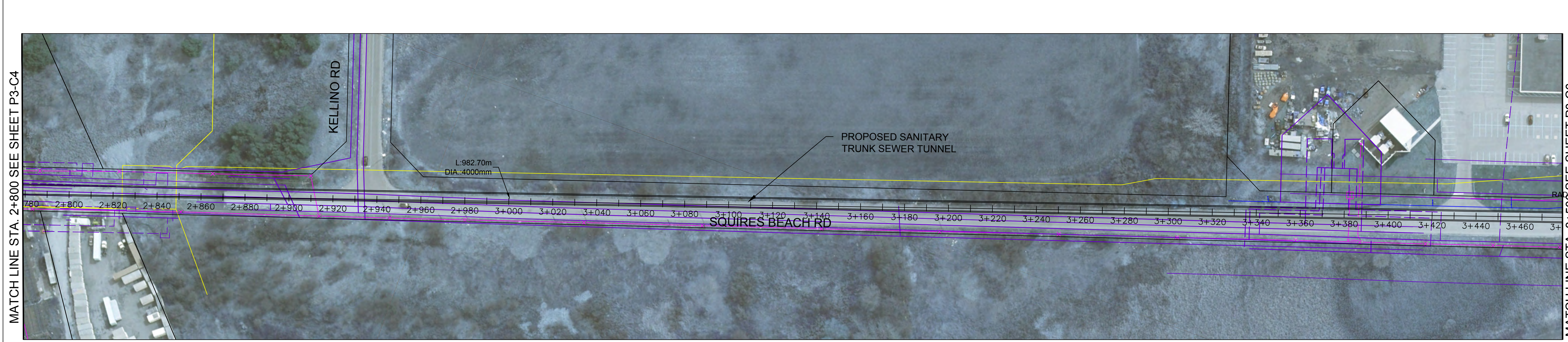
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DRAFTED	G.HARTLEY	
CHECKED	P.PARMAR	
APPROVED	D.BONTU	

VERIFY SCALE	
SCALE	H = 1:1000 V = 1:100



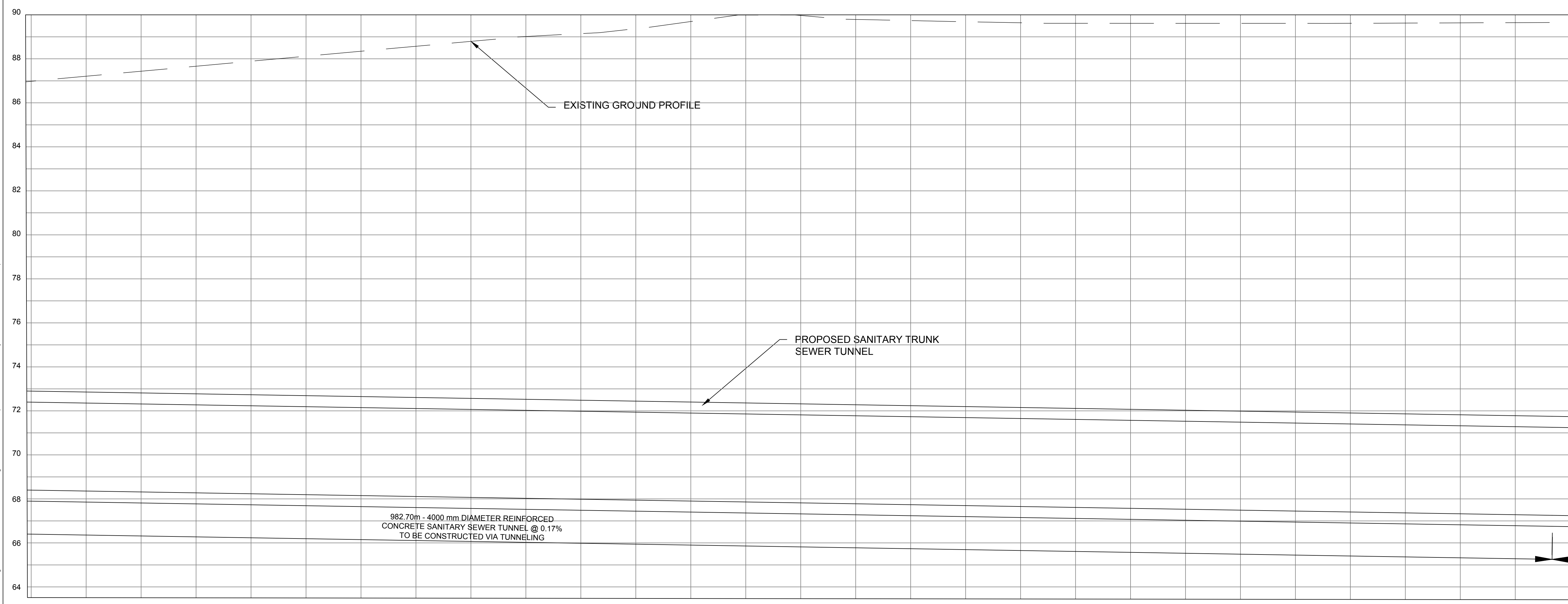
YORK REGION SEWAGE WORKS PROJECT PRIMARY TRUNK TWINNING (P3)	SHEET NUMBER <b>04</b>
CONCEPTUAL DRAWINGS PLAN AND PROFILE STA. 2+100 TO STA. 2+800	DRAWING NUMBER <b>P3-C4</b>
	CONTRACT NUMBER



**UTILITY LEGEND**

- EXISTING SANITARY
- EXISTING STORM
- EXISTING WATER
- EXISTING GAS
- EXISTING TELECOM (ROGERS)
- EXISTING POWER (ELEXICON ENERGY)
- PROPOSED SANITARY ALIGNMENT
- PROPOSED ALIGNMENT CHAINAGE

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EXISTING GROUND PROFILE

PROPOSED SANITARY TRUNK SEWER TUNNEL

982.70m - 4000 mm DIAMETER REINFORCED CONCRETE SANITARY SEWER TUNNEL @ 0.17% TO BE CONSTRUCTED VIA TUNNELING

STRUCTURE NAME

GROUND EL. (m)

PIPE INVERT LEVEL (m)

PIPE LINE CHAINAGE (m)

10m 0 10m 20 30m  
HORIZONTAL

1m 0 1m 2 3m  
VERTICAL

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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File Location: C:\Users\IH068592\OneDrive - Jacobs\P3 - Primary Trunk Twinning\P3-Conceptual Drawings\WIP\MUN\Sheets\P3-C5.dwg Last Saved: September 20, 2023, by IH068592 Plotted: September 21, 2023

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DRAFTED	G.HARTLEY	
CHECKED	P.PARMAR	
APPROVED	D.BONTU	

VERIFY SCALE	
SCALE	H = 1:1000 V = 1:100

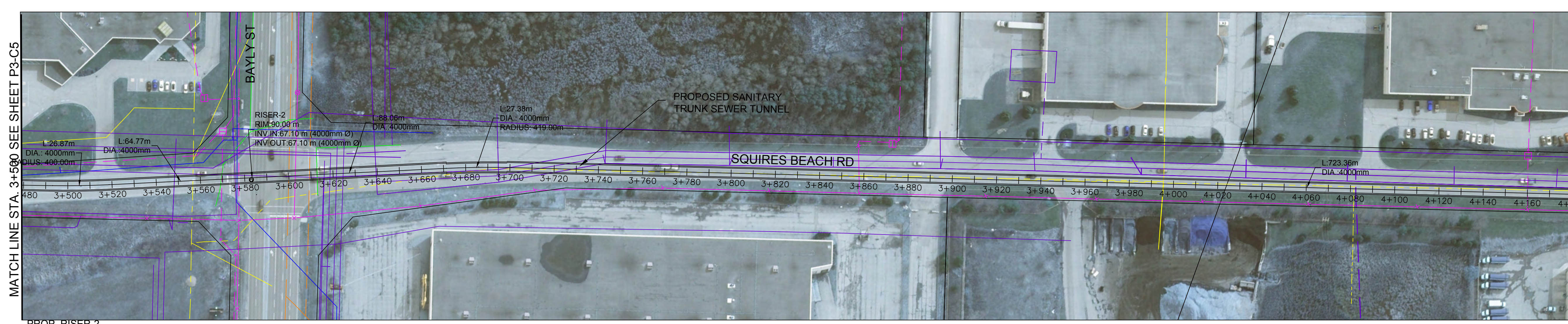


YORK REGION SEWAGE WORKS PROJECT  
PRIMARY TRUNK TWINNING (P3)

CONCEPTUAL DRAWINGS  
PLAN AND PROFILE  
STA. 2+800 TO STA. 3+500

SHEET NUMBER	05
DRAWING NUMBER	P3-C5
CONTRACT NUMBER	

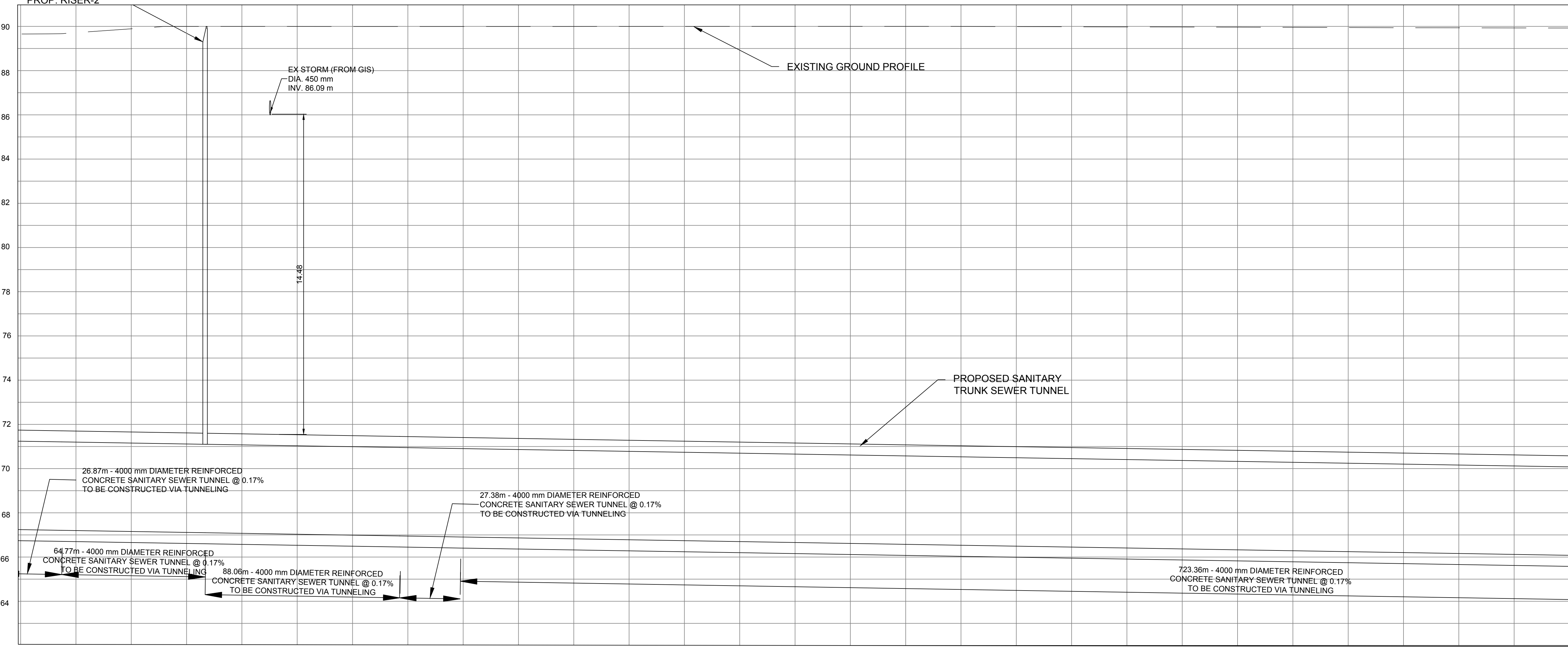




**UTILITY LEGEND**

- EXISTING SANITARY
- EXISTING STORM
- EXISTING WATER
- EXISTING GAS
- EXISTING TELECOM (ROGERS)
- EXISTING POWER (ELEXICON ENERGY)
- PROPOSED SANITARY ALIGNMENT
- = PROPOSED ALIGNMENT CHAINAGE

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10m 0 10m 20 30m  
HORIZONTAL

1m 0 1m 2 3m  
VERTICAL

STRUCTURE NAME	GROUND EL. (m)	PIPE INVERT LEVEL (m)	PIPE LINE CHAINAGE (m)
RISEB2	88.988	87.100	3+550.00
MANHOLE	86.554	86.554	3+675.00
MANHOLE	86.307	86.307	3+700.00

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DRAFTED	G.HARTLEY	
CHECKED	P.PARMAR	
APPROVED	D.BONTU	

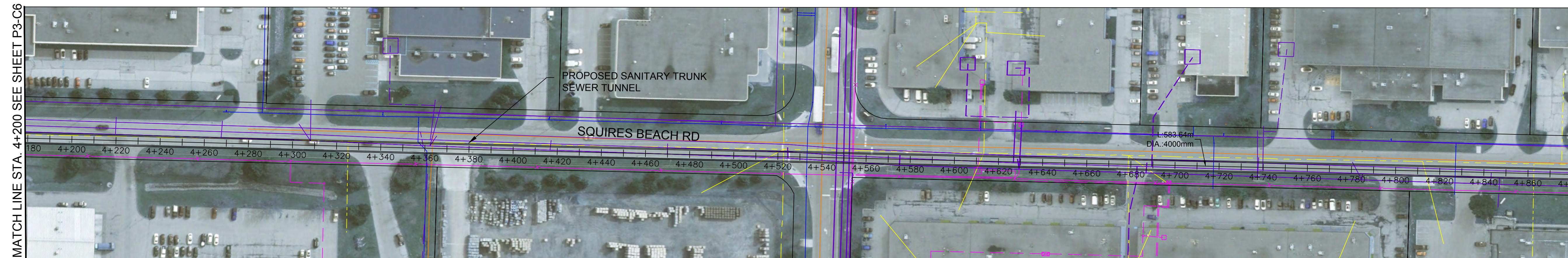
VERIFY SCALE	
SCALE	H = 1:1000 V = 1:100



**YORK REGION SEWAGE WORKS PROJECT**  
PRIMARY TRUNK TWINNING (P3)

CONCEPTUAL DRAWINGS  
PLAN AND PROFILE  
STA. 3+500 TO STA. 4+200

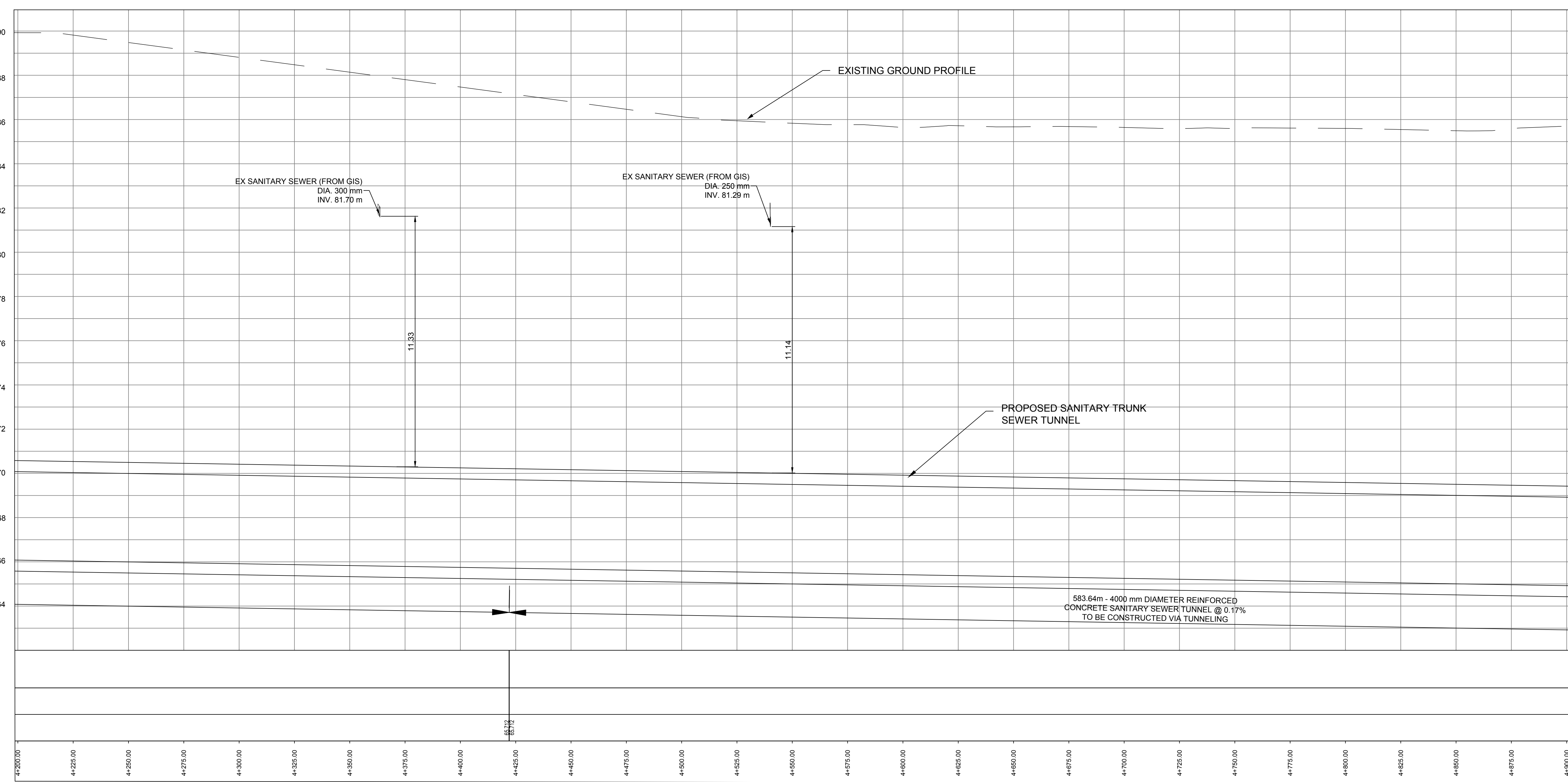
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DRAWING NUMBER	P3-C6
CONTRACT NUMBER	



**UTILITY LEGEND**

- EXISTING SANITARY
- EXISTING STORM
- EXISTING WATER
- EXISTING GAS
- EXISTING TELECOM (ROGERS)
- EXISTING POWER (ELEXICON ENERGY)
- PROPOSED SANITARY ALIGNMENT
- PROPOSED ALIGNMENT CHAINAGE

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STRUCTURE NAME

GROUND EL. (m)

PIPE INVERT LEVEL (m)

PIPE LINE CHAINAGE (m)

10m 0 10m 20 30m  
HORIZONTAL

1m 0 1m 2 3m  
VERTICAL

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DRAFTED	G.HARTLEY	
CHECKED	P.PARMAR	
APPROVED	D.BONTU	

VERIFY SCALE	
SCALE	H = 1:1000 V = 1:100

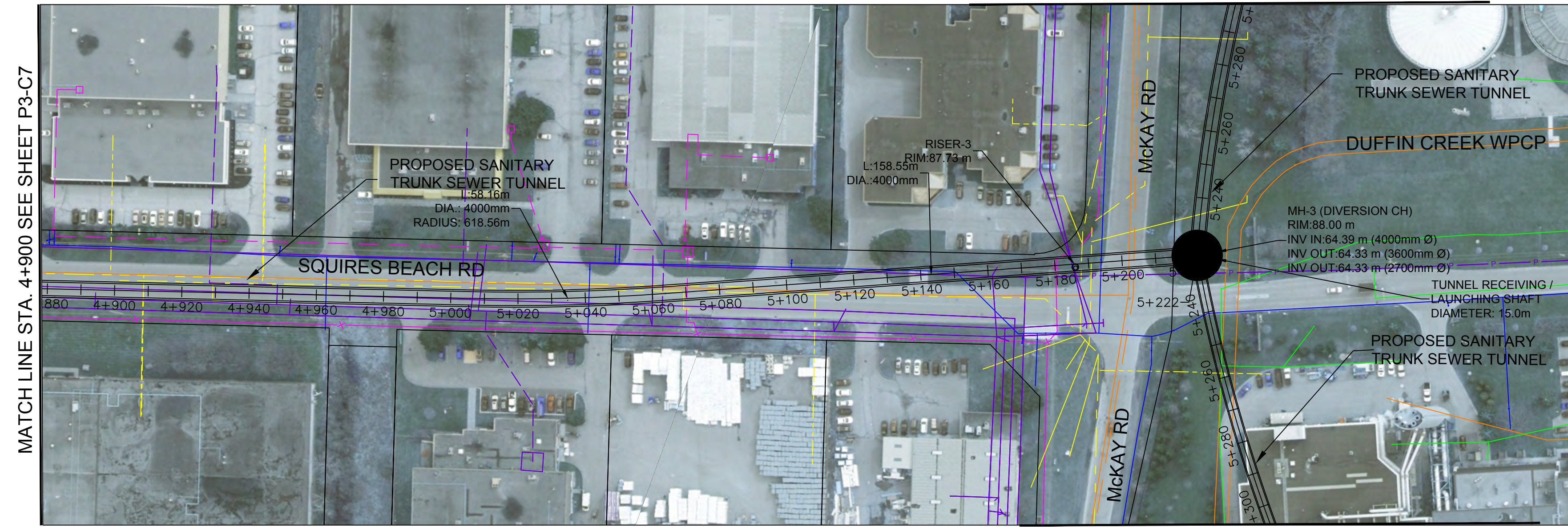


YORK REGION SEWAGE WORKS PROJECT  
PRIMARY TRUNK TWINNING (P3)

CONCEPTUAL DRAWINGS  
PLAN AND PROFILE  
STA. 4+200 TO STA. 4+900

SHEET NUMBER	07
DRAWING NUMBER	P3-C7
CONTRACT NUMBER	

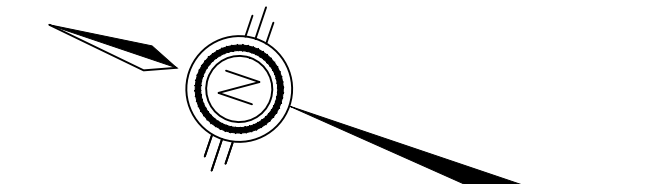
MATCH SHEET P3-C10



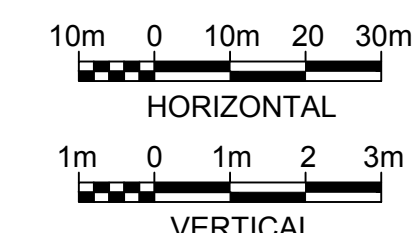
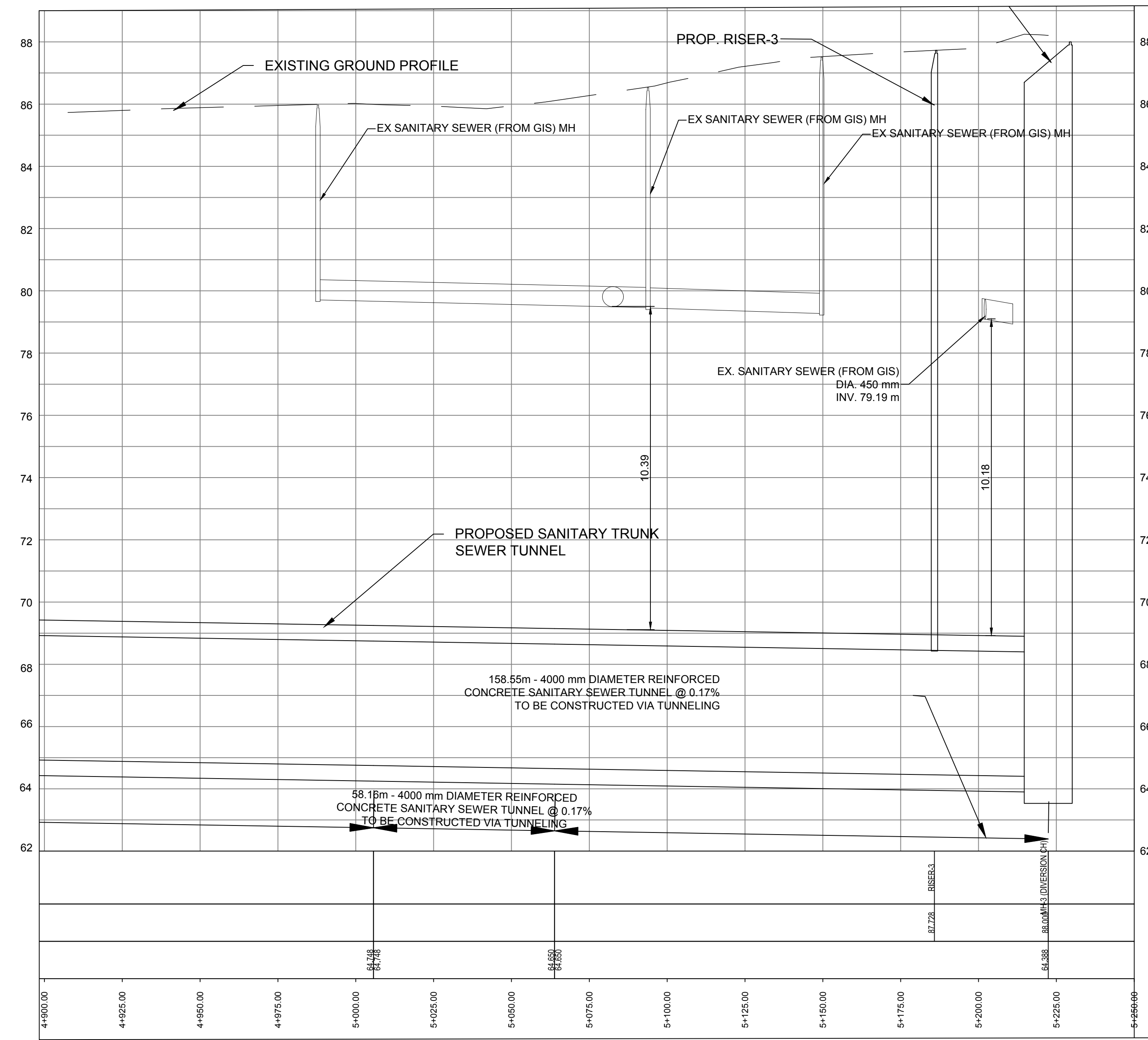
UTILITY LEGEND

- EXISTING SANITARY
- EXISTING STORM
- EXISTING WATER
- EXISTING GAS
- EXISTING TELECOM (ROGERS)
- EXISTING POWER (ELEXICON ENERGY)
- PROPOSED SANITARY ALIGNMENT
- PROPOSED ALIGNMENT CHAINAGE

NOTE: EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND OBTAINED FROM GIS DATA AND AVAILABLE AS-BUILT. THESE SHALL BE FURTHER REFINED DURING THE PRELIMINARY DESIGN STAGE ONCE MORE INFORMATION AND RECORD DRAWINGS BECOME AVAILABLE.



MATCH SHEET P3-C9



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

File Location: C:\Users\IH068592\OneDrive - Jacobs\P3 - Primary Trunk Twinning\P3-Conceptual Drawings\WIP\MUN\Sheets\P3-C8.dwg Last Saved: September 20, 2023, by IH068592 Plotted: September 21, 2023

NO.	DATE	NAME	REVISION
1	SEPT 2023	IH	CLIENT'S COMMENTS INCORPORATED
0	AUG 2023	GH	ISSUED FOR CONCEPTUAL DESIGN

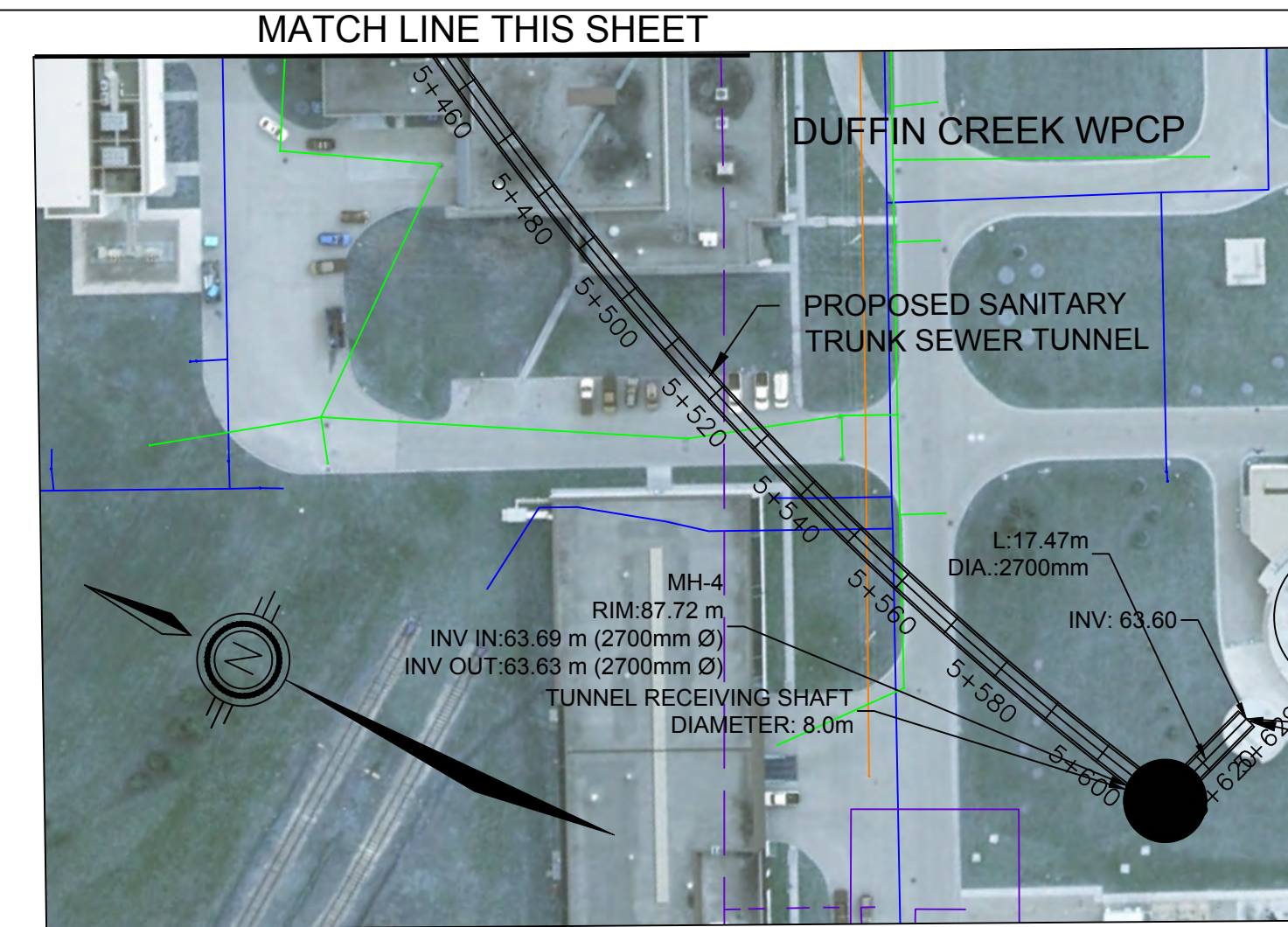
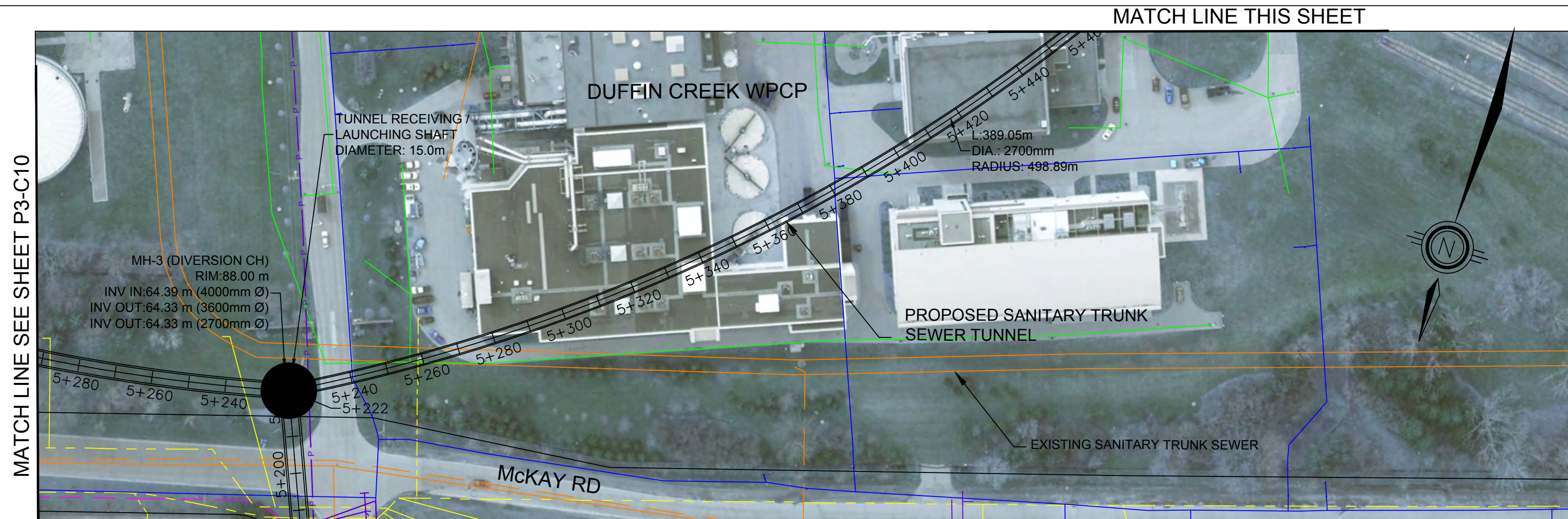
DESIGNED	I.HAMDAN	THE LOCATION OF UTILITIES IS APPROXIMATE ONLY, AND THE EXACT LOCATION SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL PROVE THE LOCATION OF UTILITIES AND SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION FROM DAMAGE DURING CONSTRUCTION.
DRAFTED	G.HARTLEY	
CHECKED	P.PARMAR	
APPROVED	D.BONTU	

VERIFY SCALE	
SCALE	H = 1:1000 V = 1:100



YORK REGION SEWAGE WORKS PROJECT PRIMARY TRUNK TWINNING (P3)	SHEET NUMBER 08
CONCEPTUAL DRAWINGS PLAN AND PROFILE STA. 4+900 TO STA. 5+223	DRAWING NUMBER P3-C8
	CONTRACT NUMBER

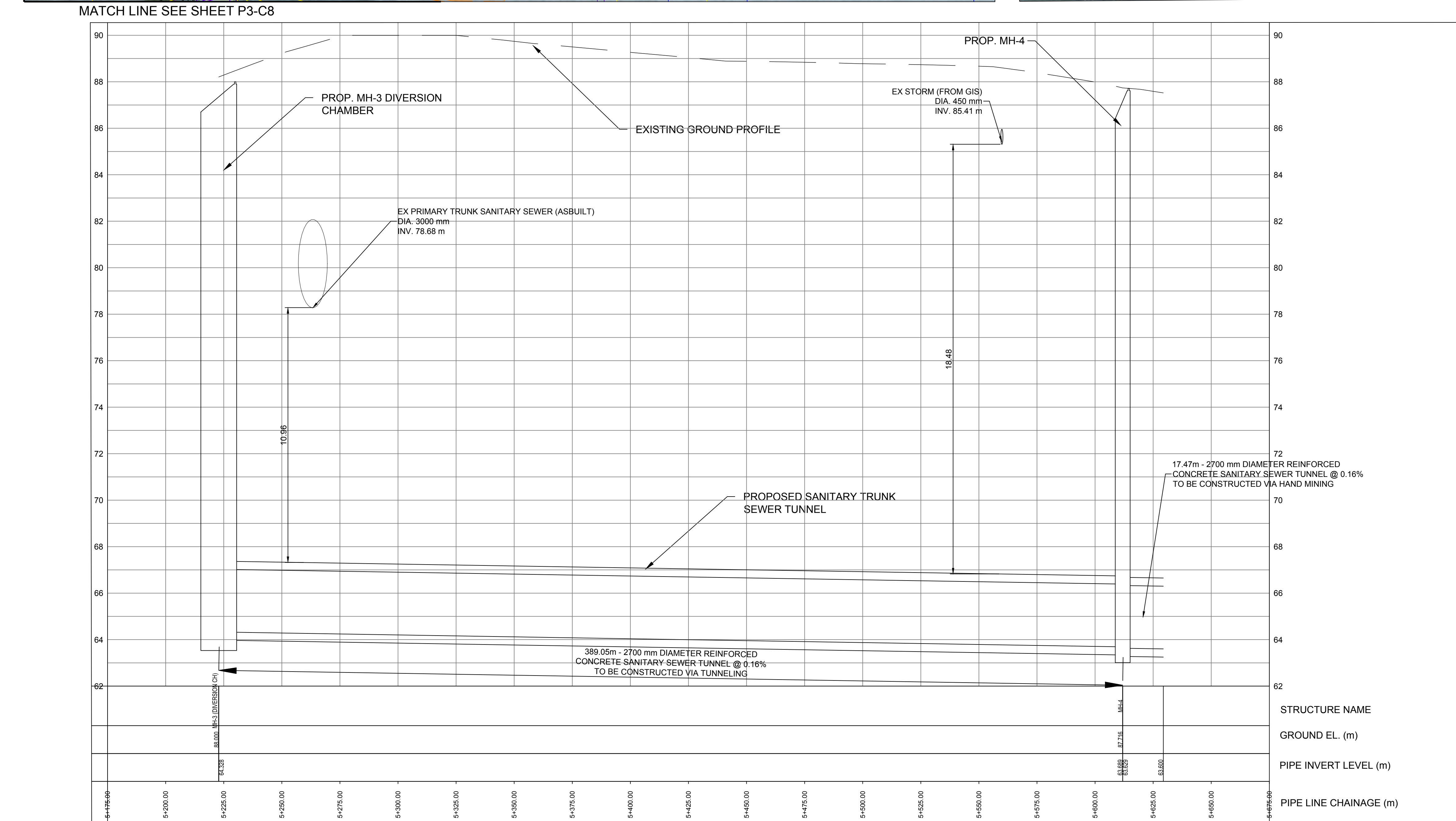
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**UTILITY LEGEND**

- EXISTING SANITARY
- EXISTING STORM
- EXISTING WATER
- EXISTING GAS
- EXISTING TELECOM (ROGERS)
- EXISTING POWER (ELEXICON ENERGY)
- PROPOSED SANITARY ALIGNMENT
- PROPOSED ALIGNMENT CHAINAGE

NOTE: EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND OBTAINED FROM GIS DATA AND AVAILABLE AS-BUILT. THESE SHALL BE FURTHER REFINED DURING THE PRELIMINARY DESIGN STAGE ONCE MORE INFORMATION AND RECORD DRAWINGS BECOME AVAILABLE.



NO.	DATE	NAME	REVISION
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0	AUG 2023	GH	ISSUED FOR CONCEPTUAL DESIGN

DESIGNED	I.HAMDAN	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.
DRAFTED	G.HARTLEY	
CHECKED	P.PARMAR	
APPROVED	D.BONTU	

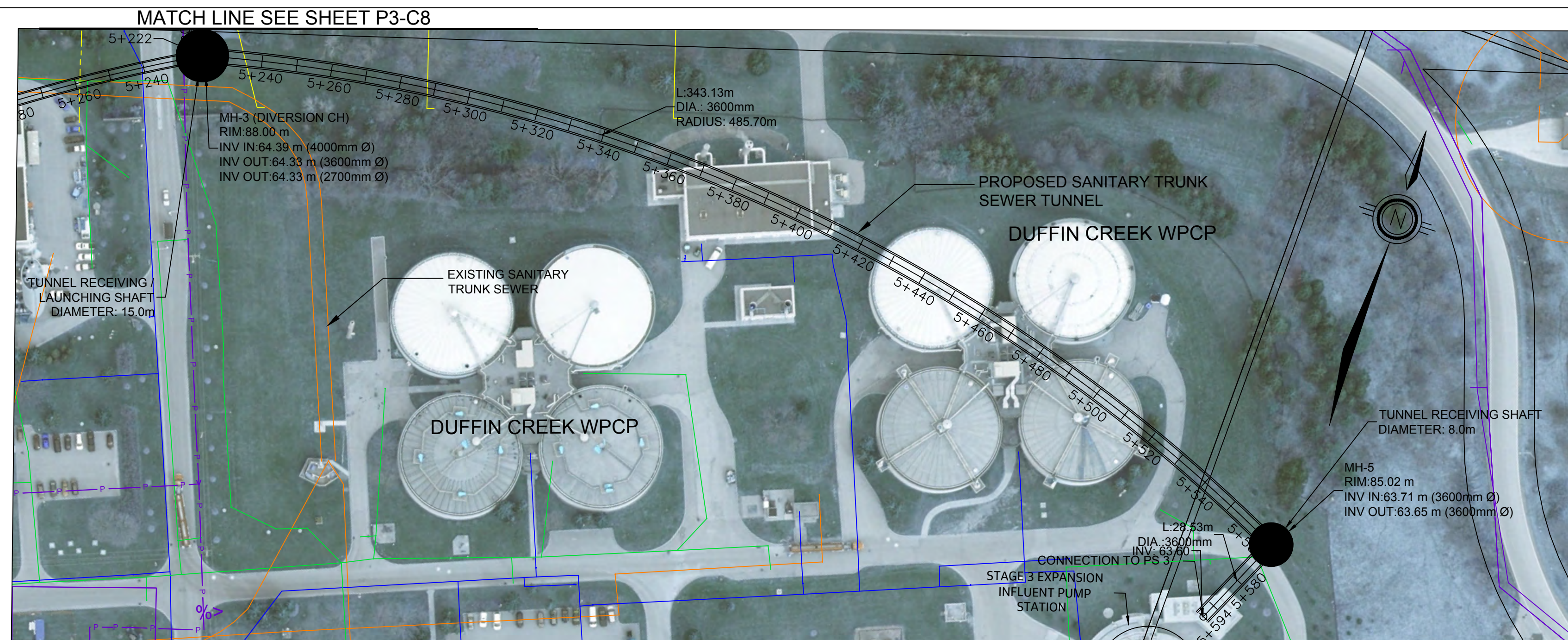
VERIFY SCALE	
SCALE	H = 1:1000 V = 1:100



YORK REGION SEWAGE WORKS PROJECT  
PRIMARY TRUNK TWINNING (P3)

CONCEPTUAL DRAWINGS  
PLAN AND PROFILE  
STA. 5+223 TO STA. 5+629 (WEST)

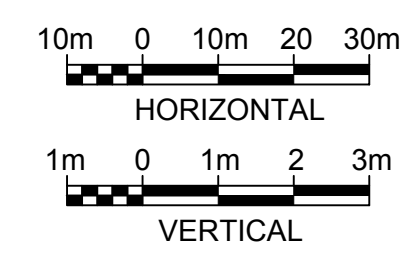
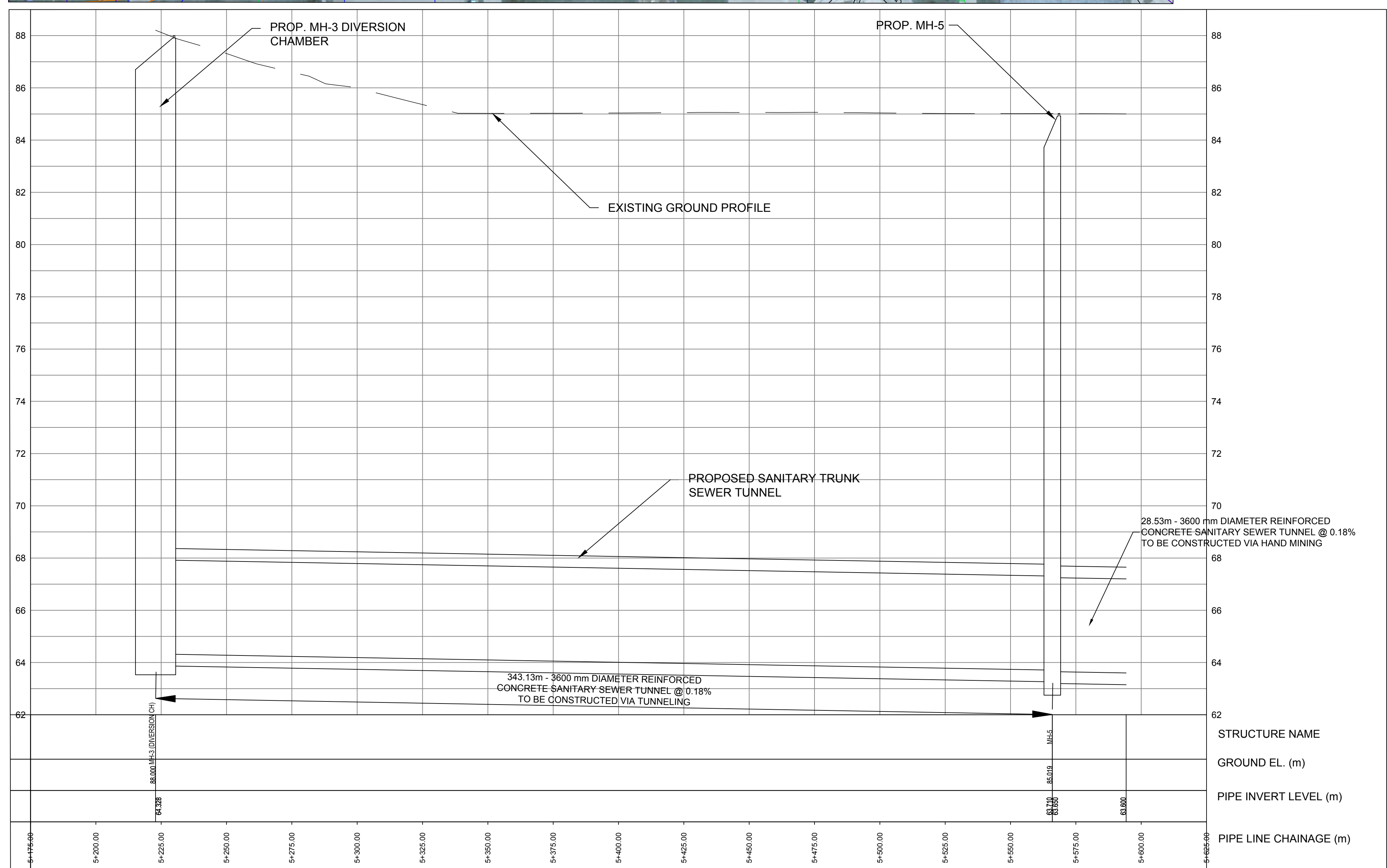
SHEET NUMBER	09
DRAWING NUMBER	P3-C9
CONTRACT NUMBER	



**UTILITY LEGEND**

- EXISTING SANITARY
- EXISTING STORM
- EXISTING WATER
- EXISTING GAS
- EXISTING TELECOM (ROGERS)
- EXISTING POWER (ELEXICON ENERGY)
- PROPOSED SANITARY ALIGNMENT
- PROPOSED ALIGNMENT CHAINAGE

NOTE: EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND OBTAINED FROM GIS DATA AND AVAILABLE AS-BUILT. THESE SHALL BE FURTHER REFINED DURING THE PRELIMINARY DESIGN STAGE ONCE MORE INFORMATION AND RECORD DRAWINGS BECOME AVAILABLE.



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DESIGNED	I.HAMDAN	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.
DRAFTED	G.HARTLEY	
CHECKED	P.PARMAR	
APPROVED	D.BONTU	

VERIFY SCALE
SCALE



YORK REGION SEWAGE WORKS PROJECT  
PRIMARY TRUNK TWINNING (P3)

CONCEPTUAL DRAWINGS  
PLAN AND PROFILE  
STA. 5+223 TO STA. 5+594 (EAST)

SHEET NUMBER	10
DRAWING NUMBER	P3-C10
CONTRACT NUMBER	