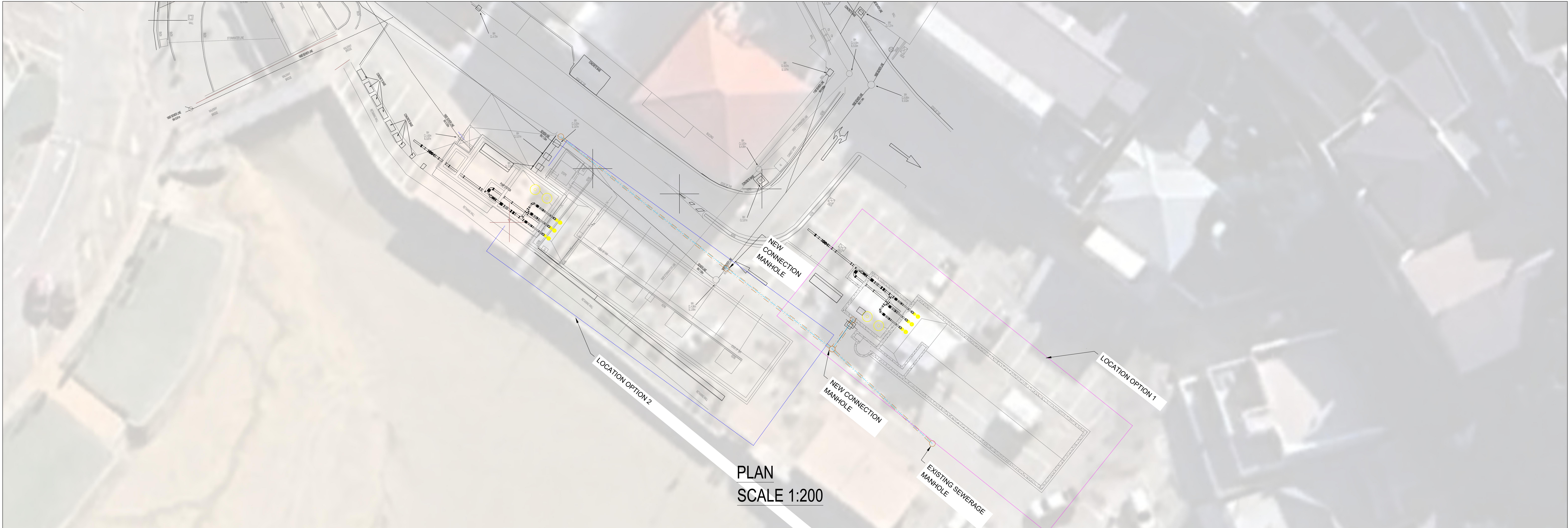


PLOT DATE TIME

DRAWING FILE LOCATION / NAME

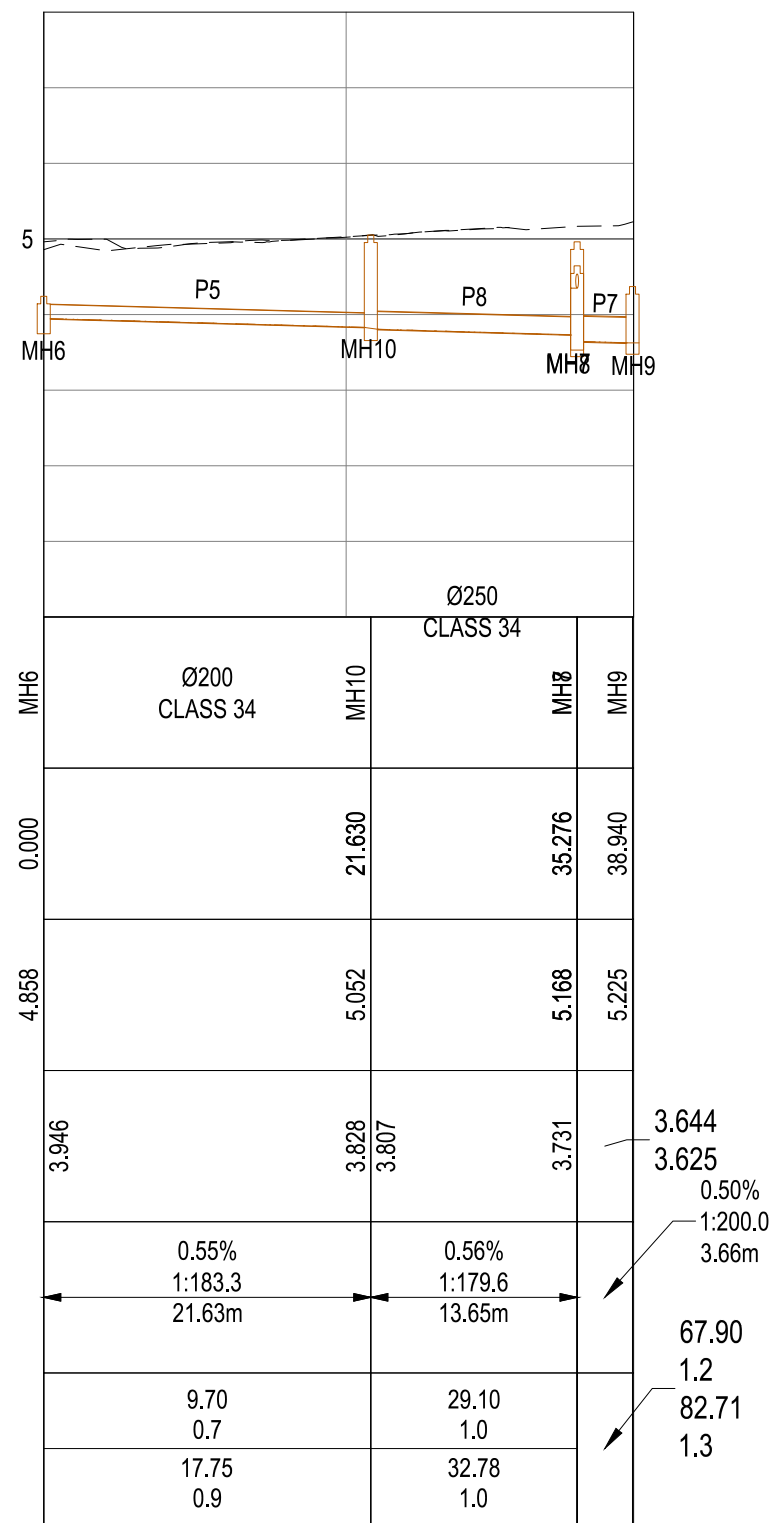
150 mm ON ORIGINAL
A1
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150



NGL ---
EGL ---
HGL ---
SCALES:
Horizontal 1:1000
Vertical 1:200

DATUM 0.000

REFERENCE		
DISTANCE (m)		
GROUND LEVEL		
PIPE INVERT LEVEL		
SLOPE / LENGTH		
HYDRAULICS	DESIGN	Q(l/s) V(m/s)
	MAX. (0.8D)	Q(l/s) V(m/s)

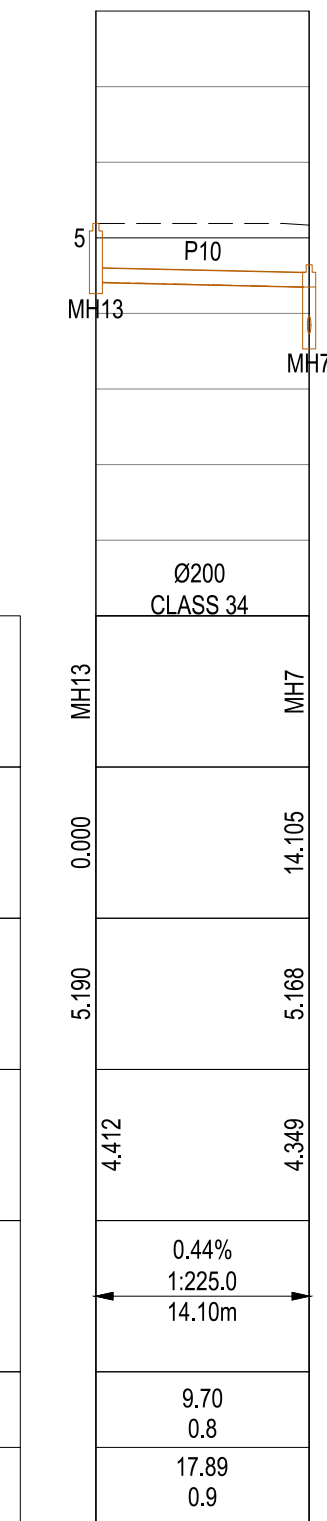


PROFILES
SCALE 1:500

NGL ---
EGL ---
HGL ---
SCALES:
Horizontal 1:1000
Vertical 1:200

DATUM 0.000

REFERENCE		
DISTANCE (m)		
GROUND LEVEL		
PIPE INVERT LEVEL		
SLOPE / LENGTH		
HYDRAULICS	DESIGN	Q(l/s) V(m/s)
	MAX. (0.8D)	Q(l/s) V(m/s)



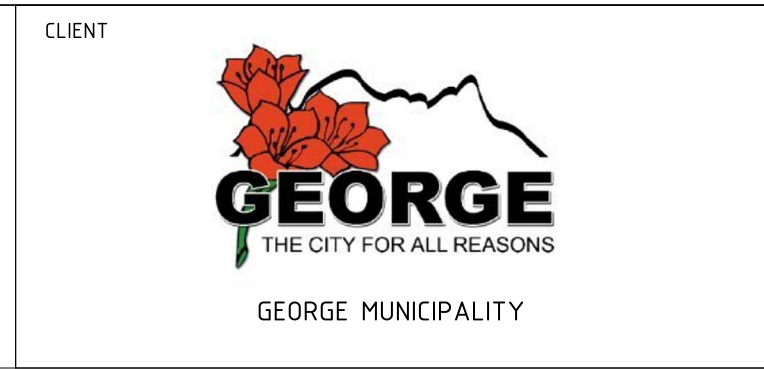
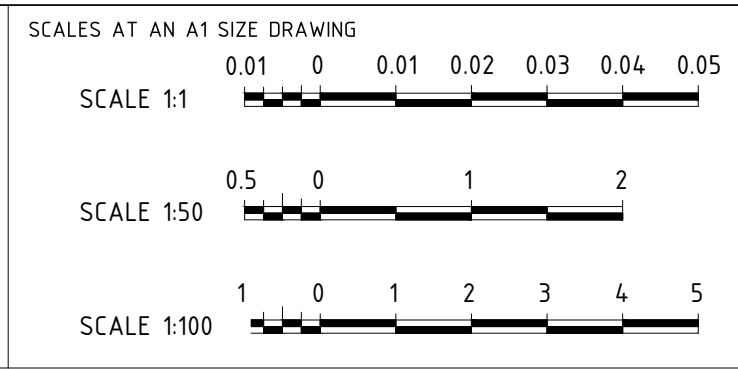
LEGEND

- EXISTING SEWER LINE
- REROUTED SEWER LINE
- 3m WORKING SPACE
- 3m WORKING SPACE

FOR INFORMATION

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME
					DRAFTER	
					DRAFTING CHECK	
					DESIGNER	
					DESIGN CHECK	
					PROJECT MANAGER	
					PROJECT DIRECTOR	

DRAWING APPROVED	
ENGINEER:	
PR ENR NG:	
SIGNATURE:	



GEORGE MUNICIPALITY HEROLDS BAY EXISTING PS1 RELOCATION PLAN AND PROFILE			
PROJECT NO. C1936		PHASE SMEC- -DRG-WI-	DRAWING NUMBER REVISION A

150 mm ON ORIGINAL

A1

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

DRAWING FILE LOCATION / NAME

PLOT DATE TIME

2024/08/12 09:58:50

NOTE:

- DRAWINGS TO BE READ IN CONJUNCTION WITH PIPE SCHEDULES & SPECIFICATIONS FOR PIPE DETAIL.
- DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL ENGINEERING DRAWINGS & SPECIFICATIONS FOR CONCRETE, STEEL & REINFORCEMENT DETAIL.

NEWLY PROPOSED SITE BOUNDARY COORDINATES		
POINT	X COORDINATES	Y COORDINATES
A	-56214.0864	-3769681.4297
B	-56206.9553	-3769693.9078
C	-56197.2560	-3769690.3610
D	-56183.8550	-3769683.4060
E	-56183.9561	-3769680.7640
F	-56185.7544	-3769677.6174
G	-56181.4561	-3769675.1057
H	-56187.1353	-3769665.0095

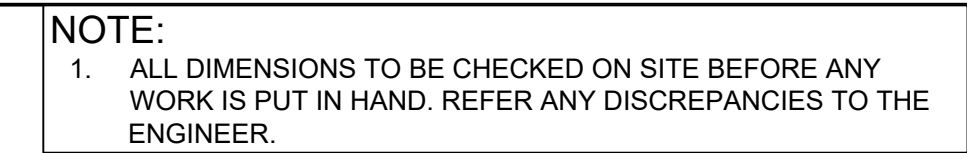
NOTE:

1. ALL DIMENSIONS TO BE CHECKED ON SITE BEFORE ANY WORK IS PUT IN HAND. REFER ANY DISCREPANCIES TO THE ENGINEER.

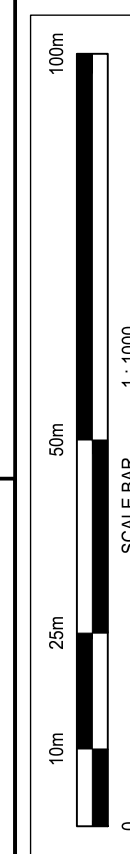
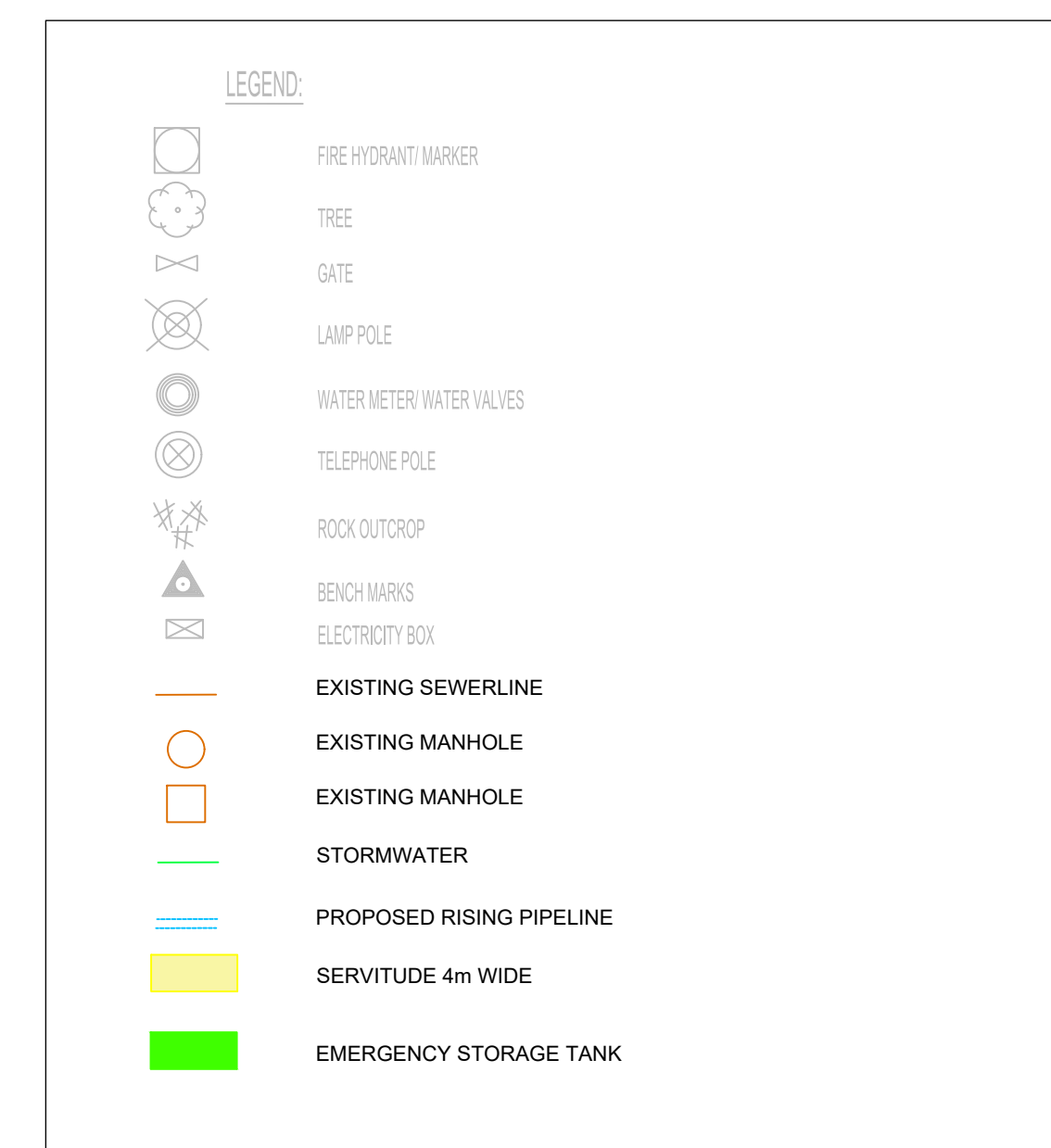
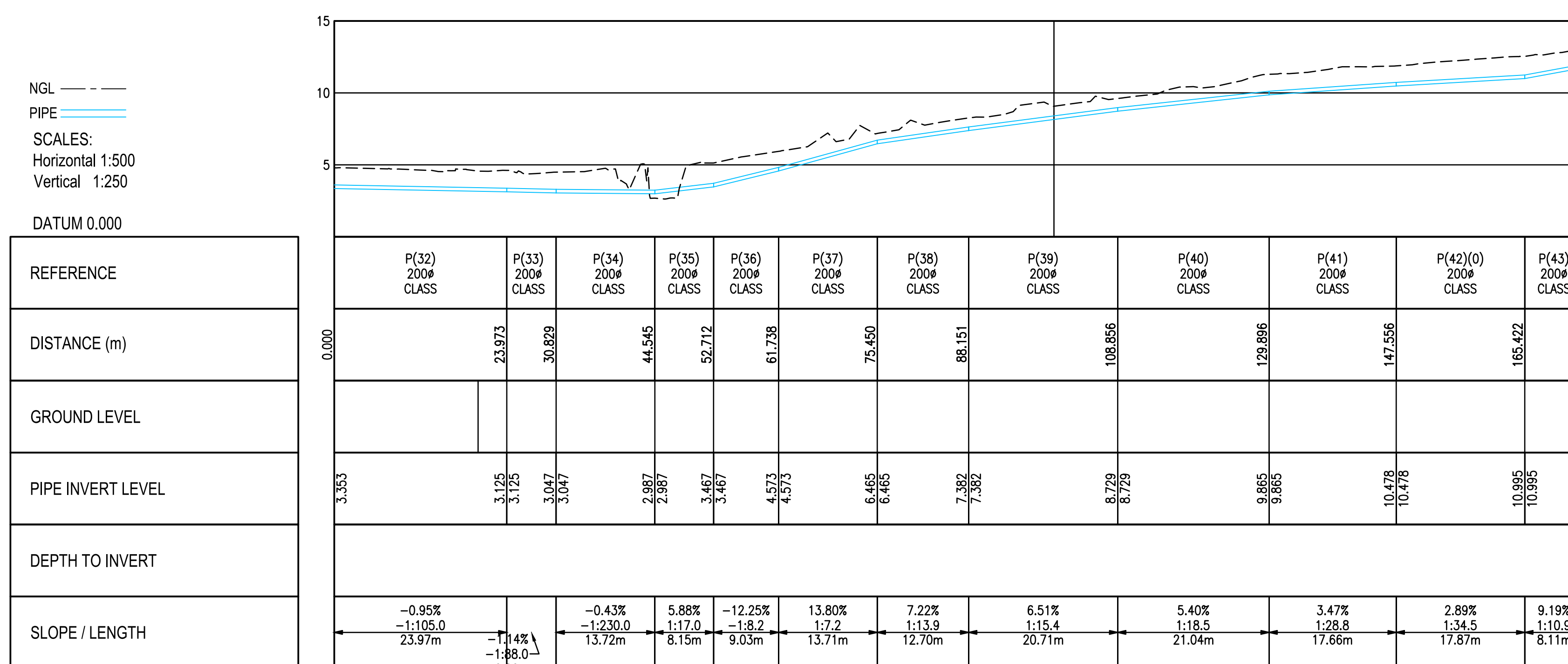


PRELIMINARY

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No	APPROVAL	TITLE	NAME	DRAWING APPROVED	SCALES AT AN A1 SIZE DRAWING	DESIGNER	CLIENT	GEORGE MUNICIPALITY HEROLD'S BAY PUMP STATION NEW PUMP STATION 4 SITE PLAN LAYOUT					
2 1			-	-	DRAFTER	G. MAREDI	ENGINEER:	SCALE 1:1 0.01 0 0.01 0.02 0.03 0.04 0.05	 Member of the Surbana Jurong Group			PROJECT NO. C1924	PHASE	DRAWING NUMBER A100	REVISION	
			-	-	DRAFTING CHECK	G. WHALLEY	PR ENG NR:	SCALE 1:50 0.5 0 1 2								
					DESIGNER	S. FAUSTINO	SIGNATURE:	SCALE 1:100 1 0 1 2 3 4 5								
					DESIGN CHECK	G. WHALLEY										
					PROJECT MANAGER	T.CRONJE										
					PROJECT DIRECTOR	T.CRONJE										



SEWER RISING MAIN PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
P(32)	250 mm	24.0 m	-0.95%	uPVC
P(33)	250 mm	6.9 m	-1.14%	uPVC
P(34)	250 mm	13.7 m	-0.43%	uPVC
P(35)	250 mm	8.2 m	5.88%	uPVC
P(36)	250 mm	9.0 m	-12.25%	uPVC
P(37)	250 mm	13.7 m	13.80%	uPVC
P(38)	250 mm	12.7 m	7.22%	uPVC
P(39)	250 mm	20.7 m	6.51%	uPVC
P(40)	250 mm	21.0 m	5.40%	uPVC
P(41)	250 mm	17.7 m	3.47%	uPVC
P(42)(0)	250 mm	17.9 m	2.89%	uPVC
P(43)	250 mm	8.1 m	9.19%	uPVC

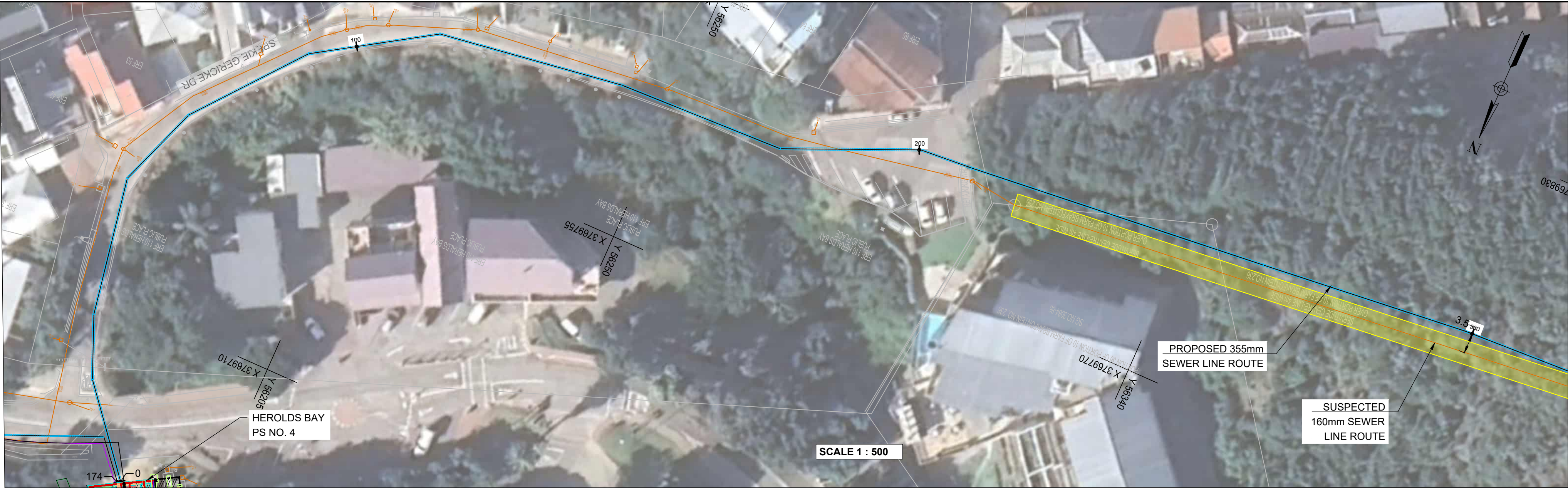


REVISIONS					DESIGNED	T CRONJE	SIGNED	 an ERM company	 THE CITY FOR ALL REASONS	SIGNED	George Municipality	Upgrading of Herolds Bay Pumpstation				
					CHECKED	J HOUGH							DATE			
					DRAWN	M GQWETHA										
	0B	07-07-2023	FOR DISCUSSION	WA	CHECKED	W ANNANDALE										
	NO.	DATE	DESCRIPTION	INITIAL												

PO Box 10633 George 6530	13 Progress St George 6529	PO Box 19 George 6530	c/o York & Market Street George 6530
e-mail: george@smec.com website: www.smec.com	Tel (044) 873-5029 Fax (044) 873-5086	e-mail: civilinfo@george.org.za Fax (086) 529 9872	Tel (044) 801 9496 Fax (086) 529 9872

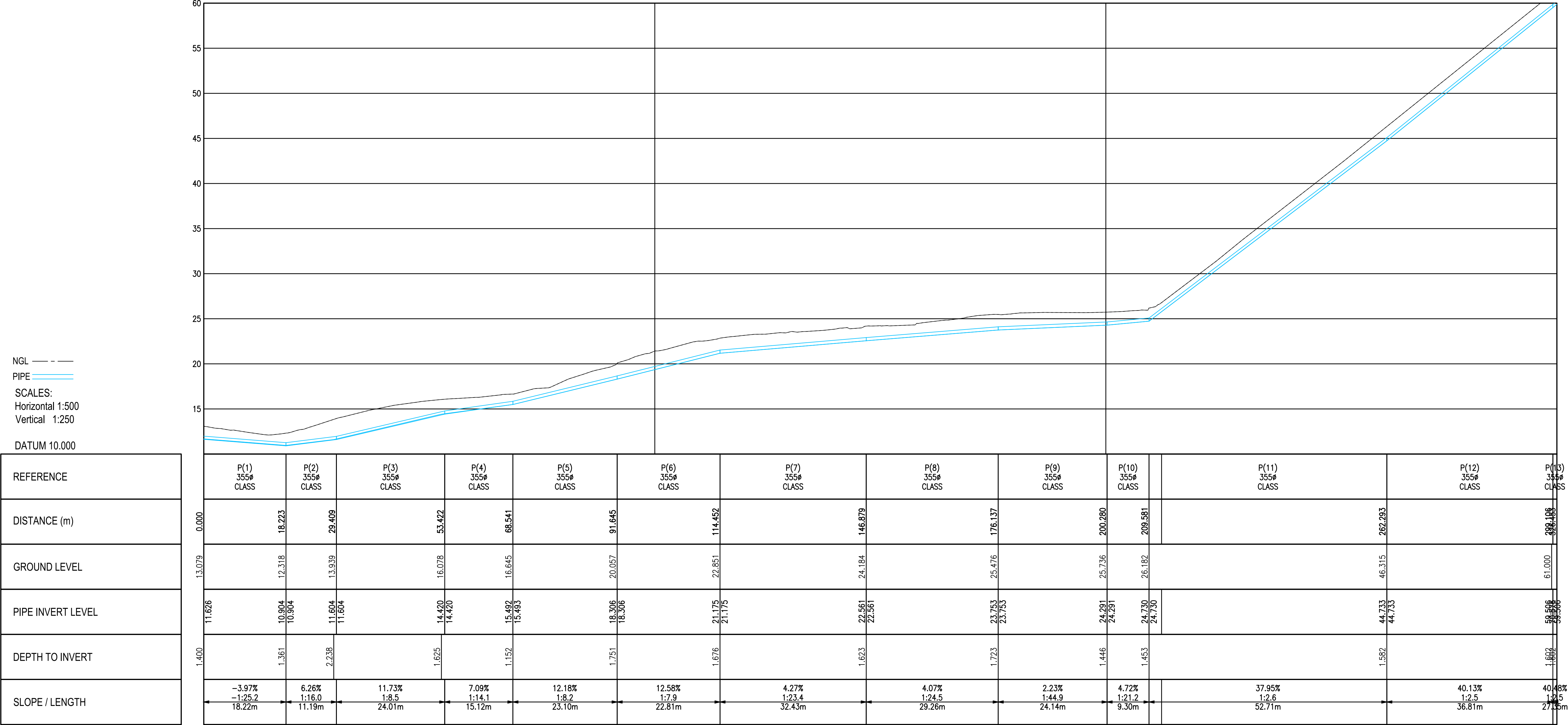
SIZE	SCALE
A1	AS SHOWN
PROJECT DRAWING NUMBER	
C1936 - 520 - 001	
REV	SHEET No.
OB	01 OF 05

Sewer Rising Main From Herolds Bay PS No. 1 to Herolds Bay PS No. 4 SV 0 to SV 171	
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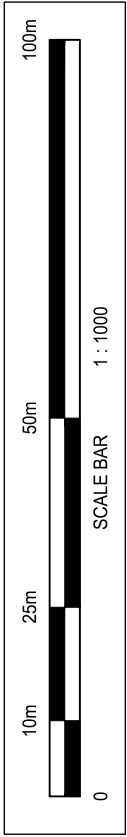
SEWER RISING MAIN PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
P(1)	355 mm	18.2 m	-3.97%	uPVC
P(2)	355 mm	11.2 m	6.26%	uPVC
P(3)	355 mm	24.0 m	11.73%	uPVC
P(4)	355 mm	15.1 m	7.09%	uPVC
P(5)	355 mm	23.1 m	12.18%	uPVC
P(6)	355 mm	22.8 m	12.58%	uPVC
P(7)	355 mm	32.4 m	4.27%	uPVC
P(8)	355 mm	29.3 m	4.07%	uPVC
P(9)	355 mm	24.1 m	2.23%	uPVC
P(10)	355 mm	9.3 m	4.72%	uPVC
P(11)	355 mm	52.7 m	37.95%	uPVC
P(12)	355 mm	36.8 m	40.13%	uPVC
P(13)	355 mm	27.3 m	40.48%	uPVC

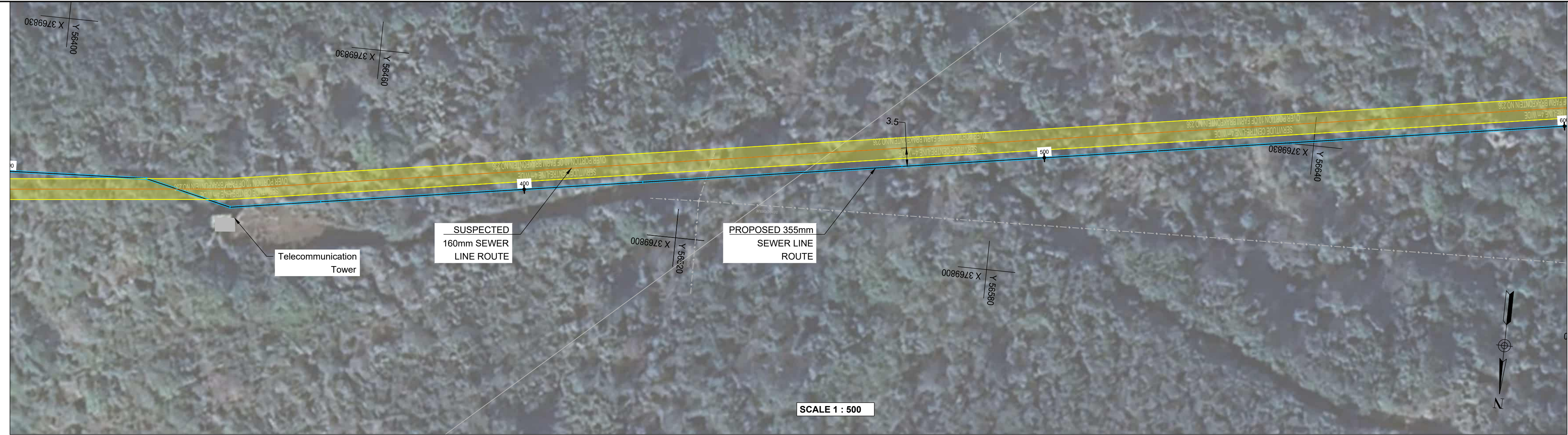
NOTE:
1. ALL DIMENSIONS TO BE CHECKED ON SITE BEFORE ANY WORK IS PUT IN HAND. REFER ANY DISCREPANCIES TO THE ENGINEER.



LEGEND:	
	FIRE HYDRANT MARKER
	TREE
	GATE
	LAMP POLE
	WATER METER/WATER VALVES
	TELEPHONE POLE
	ROCK OUTCROP
	BENCHMARK
	ELECTRICITY BOX
	EXISTING SEWERLINE
	EXISTING MANHOLE
	STORMWATER
	PROPOSED RISING PIPELINE
	SERVITUDE 4m WIDE

REVISIONS				DESIGNED	T CRONJE	SIGNED SMEC South Africa	 an sba company PO Box 10633 George 6530 e-mail: george@smec.com website: www.smec.com	 THE CITY FOR ALL REASONS PO Box 19 George 6530 e-mail: civilinfo@george.org.za website: www.george.org.za	SIGNED George Municipality	DATE	Upgrading of Herolds Bay Pumpstation	Sewer Rising Main from Herolds Bay PS No. 4 to Existing WWTW SV 0 to SV 300	SIZE	SCALE
				CHECKED	J HOUGH								A1	AS SHOWN
				DRAWN	M GQWETHA								PROJECT DRAWING NUMBER	C1936 - 520 - 002
	OB	07-07-2023	FOR DISCUSSION	WA	CHECKED								W ANNANDALE	REV
	NO.	DATE	DESCRIPTION	INITIAL		DATE			OB		02 OF 05			

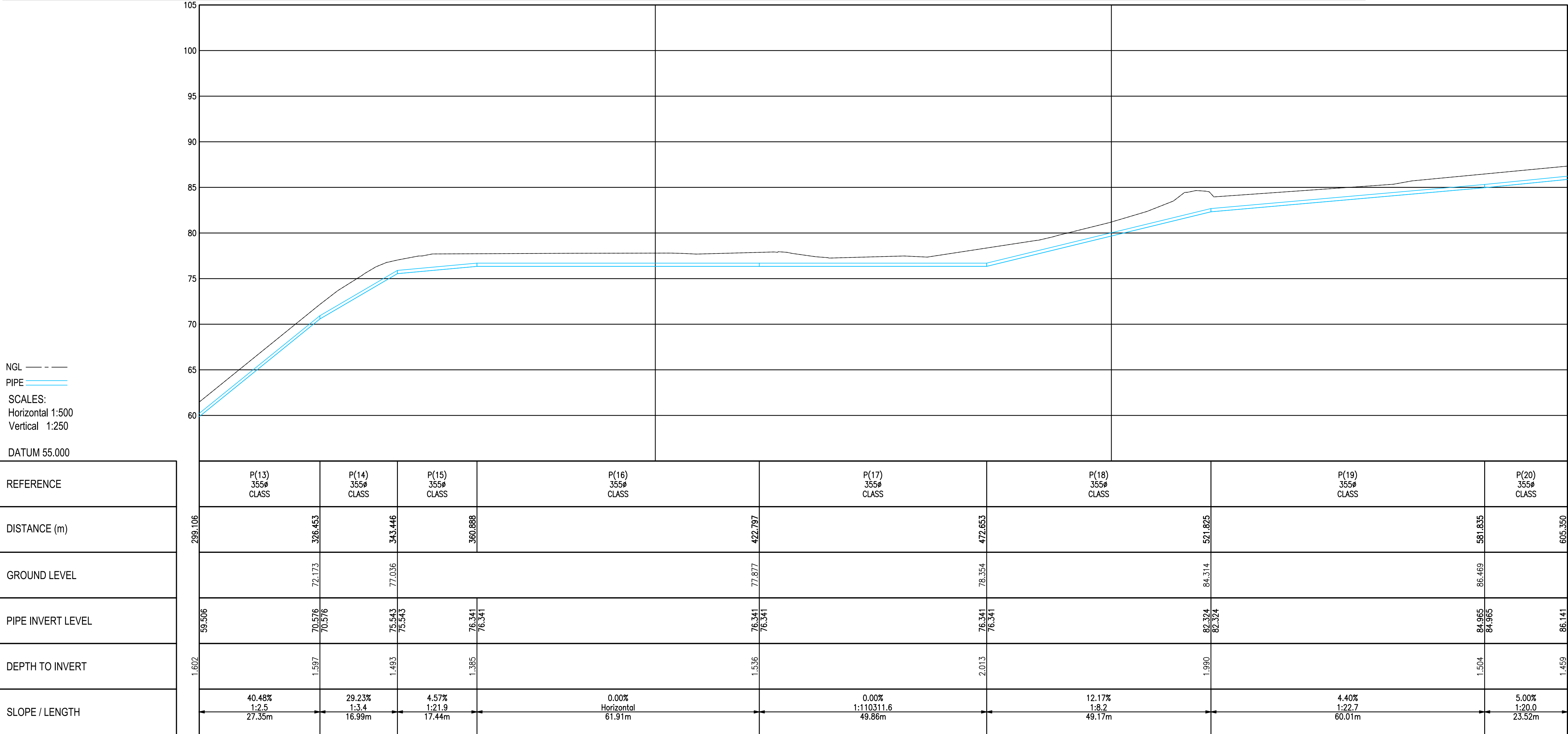




NOTE:
1. ALL DIMENSIONS TO BE CHECKED ON SITE BEFORE ANY WORK IS PUT IN HAND. REFER ANY DISCREPANCIES TO THE ENGINEER.

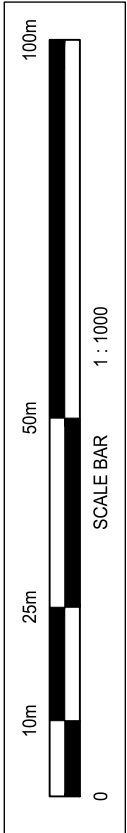
SEWER RISING MAIN PIPE TABLE

NAME	SIZE	LENGTH	SLOPE	MATERIAL
P(13)	355 mm	27.3 m	40.48%	uPVC
P(14)	355 mm	17.0 m	29.23%	uPVC
P(15)	355 mm	17.4 m	4.57%	uPVC
P(16)	355 mm	61.9 m	0.00%	uPVC
P(17)	355 mm	49.9 m	0.00%	uPVC
P(18)	355 mm	49.2 m	12.17%	uPVC
P(19)	355 mm	60.0 m	4.40%	uPVC
P(20)	355 mm	23.5 m	5.00%	uPVC



LEGEND:

- FIRE HYDRANT MARKER
- TREE
- GATE
- LAMP POLE
- WATER METER WATER VALVES
- TELEPHONE POLE
- ROCK OUTCROP
- BENCH MARKS
- ELECTRICITY BOX
- EXISTING SEWERLINE
- EXISTING MANHOLE
- EXISTING MANHOLE
- STORMWATER
- PROPOSED RISING PIPELINE
- SERVITUDE 4m WIDE



REVISIONS

OB	07-07-2023	FOR DISCUSSION	WA		
NO.	DATE	DESCRIPTION	INITIAL	CHECKED	W ANNANDALE

DESIGNED	T CRONJE
CHECKED	J HOUGH
DRAWN	M GQWETHA
CHECKED	W ANNANDALE

SIGNED

SMEC South Africa

DATE

PO Box 10633
George 6530
e-mail: george@smec.com
website: www.smec.com

13 Progress St
George 6529
Tel (044) 873-5029
Fax (044) 873-5086

PO Box 19
George 6530
e-mail: civilinfo@george.org.za
website: www.george.org.za

c/o York & Market Street
George 6530
Tel (044) 801 9496
Fax (086) 629 9872

SIGNED

George Municipality

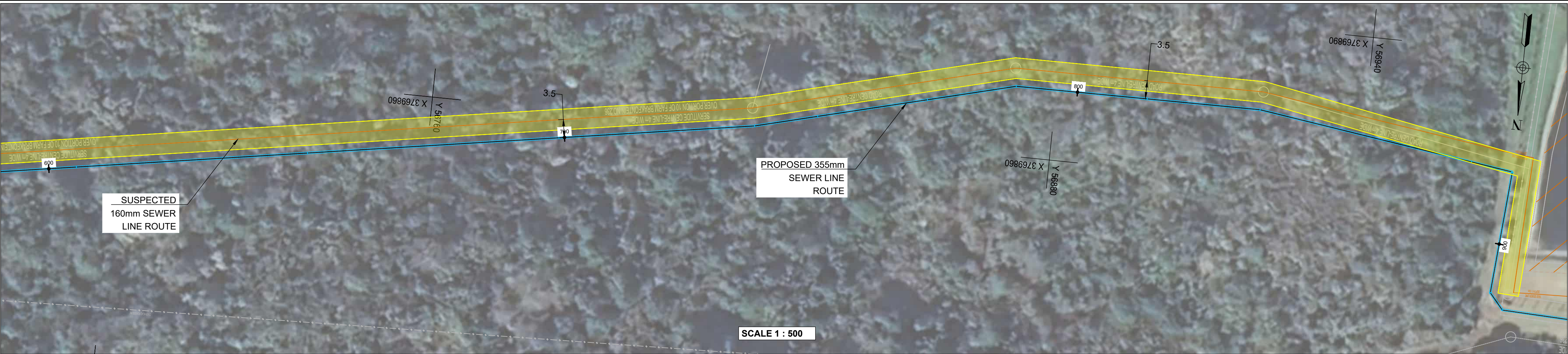
DATE

Upgrading of Herolds Bay Pumpstation

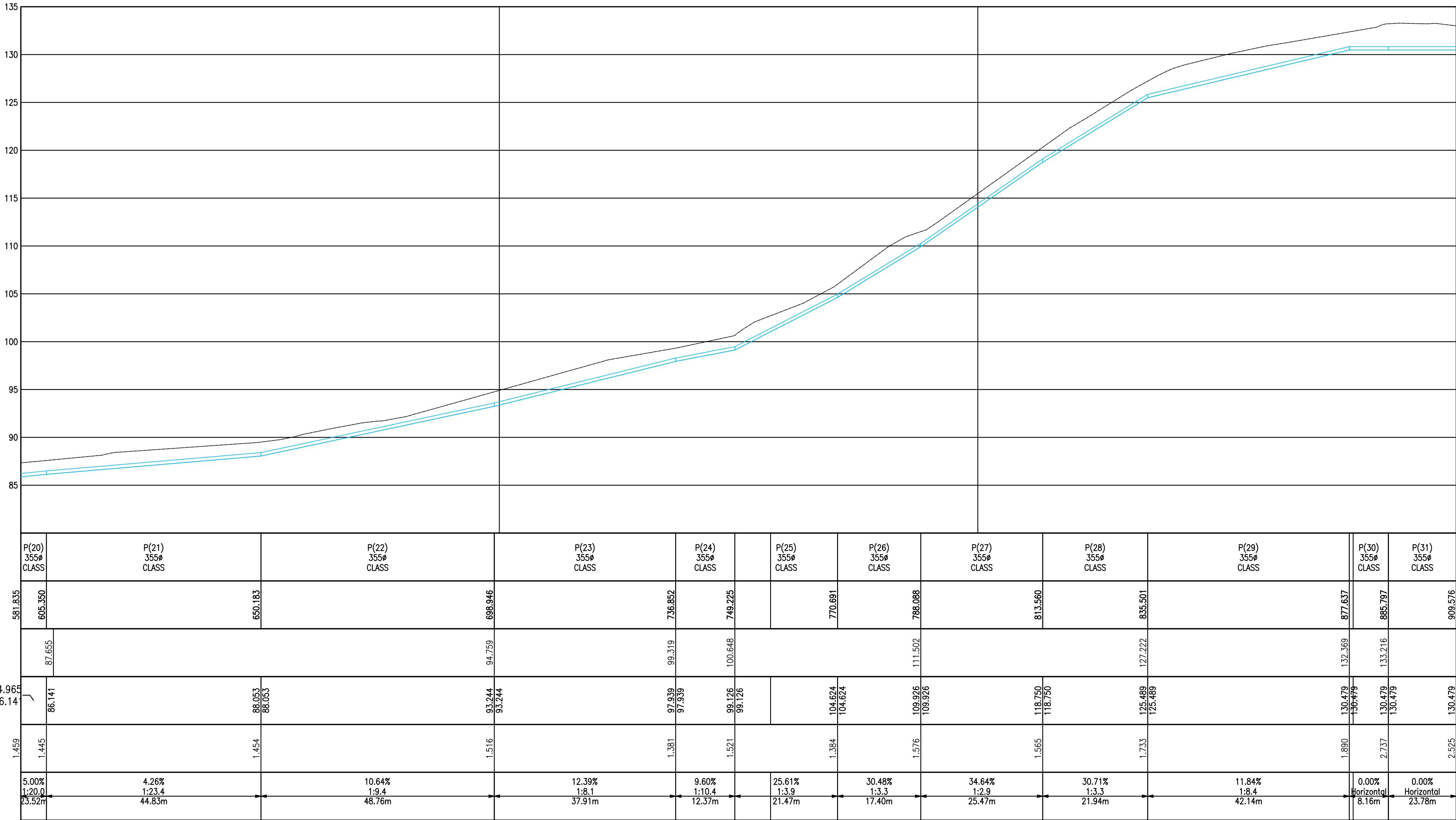
Sewer Rising Main from Herolds Bay PS No. 4 to Existing WWTW SV 300 to SV 600

SIZE	A1	SCALE	AS SHOWN
PROJECT DRAWING NUMBER			
C1936 - 520 - 003			
REV	OB	SHEET No.	03 OF 05

FOR DISCUSSION



SEWER RISING MAIN PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
P(20)	355 mm	23.5 m	5.00%	uPVC
P(21)	355 mm	44.8 m	4.26%	uPVC
P(22)	355 mm	48.8 m	10.64%	uPVC
P(23)	355 mm	37.9 m	12.39%	uPVC
P(24)	355 mm	12.4 m	9.60%	uPVC
P(25)	355 mm	21.5 m	25.61%	uPVC
P(26)	355 mm	17.4 m	30.48%	uPVC
P(27)	355 mm	25.5 m	34.64%	uPVC
P(28)	355 mm	21.9 m	30.71%	uPVC
P(29)	355 mm	42.1 m	11.84%	uPVC
P(30)	355 mm	8.2 m	0.00%	uPVC



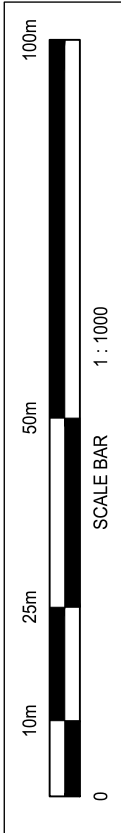
LEGEND:	
	FIRE HYDRANT MARKER
	TREE
	GATE
	LAMP POLE
	WATER METER/WATER VALVES
	TELEPHONE POLE
	ROCK OUTCROP
	BENCHMARK
	ELECTRICITY BOX
	EXISTING SEWERLINE
	EXISTING MANHOLE
	EXISTING MANHOLE
	STORMWATER
	PROPOSED RISING PIPELINE
	SERVITUDE 4m WIDE
	EMERGENCY STORAGE TANK

LONGSECTION PROPOSED RISING MAIN 2
FROM 600.000 TO 900.000

NOTE:
1. ALL DIMENSIONS TO BE CHECKED ON SITE BEFORE ANY
WORK IS PUT IN HAND. REFER ANY DISCREPANCIES TO THE
ENGINEER.

FOR
DISCUSSION

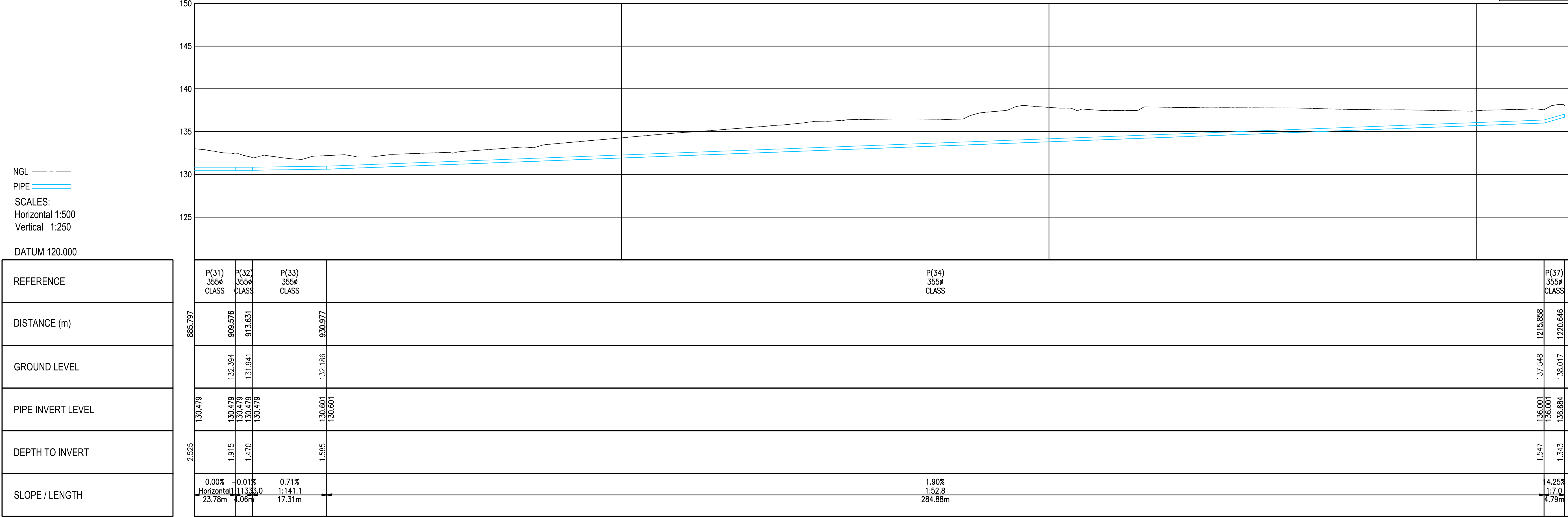
REVISIONS					DESIGNED	T CRONJE	SIGNED	 an  company	 THE CITY FOR ALL REASONS	SIGNED	George Municipality	Upgrading of Herolds Bay Pumpstation	<table><tr><td>SIZE</td><td>SCALE</td></tr><tr><td>A1</td><td>AS SHOWN</td></tr><tr><td colspan="2">PROJECT DRAWING NUMBER</td></tr><tr><td colspan="2">C1936 - 520 - 004</td></tr><tr><td>REV</td><td>SHEET No.</td></tr><tr><td>OB</td><td>04 OF 05</td></tr></table>	SIZE	SCALE	A1	AS SHOWN	PROJECT DRAWING NUMBER		C1936 - 520 - 004		REV	SHEET No.	OB	04 OF 05	 0 10m 20m																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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				CHECKED	J HOUGH	SMEC South Africa	DATE	PO Box 10633 George 6530 e-mail: george@smec.com website: www.smec.com	13 Progress St George 6529 Tel (044) 873-5029 Fax (044) 873-5086	PO Box 19 George 6530 e-mail: civilinfo@george.org.za website: www.george.org.za	c/o York & Market Street George 6530 Tel (044) 801 9496 Fax (086) 529 9872																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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SEWER RISING MAIN PIPE TABLE				
NAME	SIZE	LENGTH	SLOPE	MATERIAL
P(31)	355 mm	23.8 m	0.00%	uPVC
P(32)	355 mm	4.1 m	-0.01%	uPVC
P(33)	355 mm	17.3 m	0.71%	uPVC
P(34)	355 mm	284.9 m	1.90%	uPVC
P(37)	355 mm	4.8 m	14.25%	uPVC

LEGEND:	
	FIRE HYDRANT MARKER
	TREE
	GATE
	LAMP POLE
	WATER METER/WATER VALVES
	TELEPHONE POLE
	ROCK OUTCROP
	BENCH MARKS
	ELECTRICITY BOX
	EXISTING SEWERLINE
	EXISTING MANHOLE
	EXISTING MANHOLE
	STORMWATER
	PROPOSED RISING PIPELINE
	SERVITUDE 4m WIDE
	EMERGENCY STORAGE TANK



LONGSECTION PROPOSED RISING MAIN 2
FROM 900.000 TO 1221.608

NOTE:
1. ALL DIMENSIONS TO BE CHECKED ON SITE BEFORE ANY
WORK IS PUT IN HAND. REFER ANY DISCREPANCIES TO THE
ENGINEER.

FOR
DISCUSSION

REVISIONS					DESIGNED	B BARTLETT	SIGNED	 an  company	 THE CITY FOR ALL REASONS	PO Box 10633 George 6530	13 Progress St George 6529	PO Box 19 George 6530	c/o York & Market Street George 6530	SIGNED	George Municipality	DATE	DATE	Upgrading of Herolds Bay Pumpstation	Sewer Rising Main From Herolds Bay PS No. 4 to Exisiting WWTW SV 900 to SV 1227	SIZE	SCALE	
					CHECKED	J HOUGH														A1	AS SHOWN	
	0B	07-07-2023	FOR DISCUSSION		WA	DRAWN	M GQWETHA													PROJECT DRAWING NUMBER		
	NO.	DATE	DESCRIPTION		INITIAL	CHECKED	W ANNANDALE													C1936	-	520
																				AB	05 OF 05	

