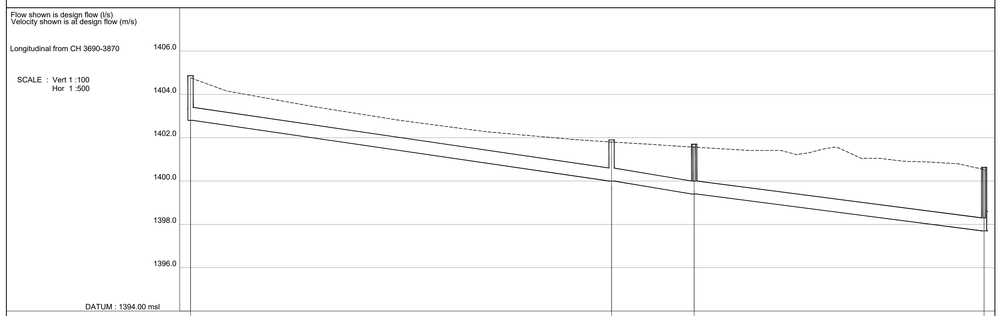
GI 27 - GI 30



Peg Distance (m)	0.00	97.15	116.22	183.11		
Ground level (m)	1404.76	1401.80	1401.56	1400.53		
Invert Level (m)	1402.80	1400.00	1399.40	1397.70		
Depth (m)	1.96	1.80	2.16	2.83		
Grade (1:_)		34.26	29.74	38.63		
Capacity(80%D) (l/s)		964.26	1035.03	908.10		
Flow (l/s)		150	210	265		
Horizontal Align.		192:02:31	191:52:01	191:50:55		
Pipe description		600mm dia./Class100D - Storm				
Reference	GI 27	GI 28	MH 14	GI 30		
Velocity (m/s)		2.8	3.3	3.2		

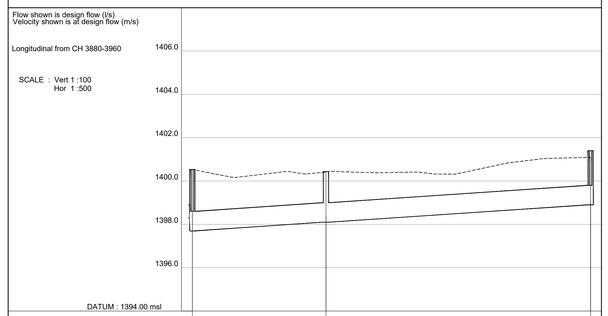
GI 27 - GI 30

Pipe lengths (m)		
Reference	Horiz.	Slope
GI 27 - GI 28	97.155	97.195
GI 28 - MH 14	19.062	19.072
MH 14 - GI 30	66.893	66.915

Pipe design data

Reference	Y	X	IL in / out		DEPTH in / out	
GI 27	88747.338	3283945.264	1402.800	1402.800	1.963	1.963
GI 28	88727.069	3283850.247	1400.000	1400.000	1.798	1.798
MH 14	88723.149	3283831.592	1399.400	1399.400	2.165	2.165
GI 30	88709.414	3283766.124	1397.700	1397.700	2.833	2.833

GI 30 - GI 33



Peg Distance (m)	0.00	30.84	91.92			
Ground level (m)	1400.53	1400.43	1401.10			
Invert Level (m)	1397.69	1398.10	1398.90			
Depth (m)	2.84	2.33	2.20			
Grade (1:_)		74.06	74.82			
Capacity(80%D) (l/s)		1918.65	1908.87			
Flow (l/s)		835	805			
Horizontal Align.		219:31:29	226:44:03			
Pipe description		900mm dia./Class100D - Storm				
Reference	GI 30	GI 32	GI 33			
Velocity (m/s)		3.3	3.3			

GI 30 - GI 33

Pipe lengths (m)		
Reference	Horiz.	Slope
GI 30 - GI 32	30.843	30.846
GI 32 - GI 33	61.075	61.081

Pipe design data

Reference	Y	X	IL in / out		DEPTH in / out	
GI 30	88709.414	3283766.124	1397.700	1397.694	2.833	2.840
GI 32	88689.785	3283742.333	1398.100	1398.100	2.333	2.333
GI 33	88645.311	3283700.473	1398.900	1398.900	2.196	2.196

FOR FINAL APPROVAL

SYMBOL	DATE	DESCRIPTION	CHECKED	SIGNED
D	OCT 2019	FOR FINAL APPROVAL	KG	
C	AUG 2018	FOR APPROVAL	KG	
B	AUG 2016	FOR APPROVAL	MM	

AMENDMENTS

AS BUILT

SUPERVISING ENGINEER DATE

SUPERVISING AUTHORITY

CONTINUED FROM:	C45232	DESIGNED BY:	M MARAIS
CONTINUED ON:	C45234	CHECKED BY:	K GOVENDER
CROSS SECTION NO:	C41972-C41982	DRAWN BY:	P RAMAUTAR
PLAN NO:	C41964-C41971	CHECKED BY:	M SINGH

NAIDU CONSULTING - CONSULTING ENGINEER
K . GOVENDER SIGN : . DATE :

Designed by:-
NAIDU CONSULTING
Naidu Consulting no.:- D267/4119/D

transport
Department:
Transport
Province of KwaZulu-Natal

UPGRADE OF MAIN ROAD P402 (HOLY FAMILY CONVENT - KWAMGWAGWA)

TRANSPORTATION ENGINEERING : CHIEF ENGINEER

HEAD : TRANSPORT

DESCRIPTION

FROM KM 0+000 TO KM 7+517

PIPE LONGITUDINAL SECTION

STAKED KM DISTANCE
AS SHOWN

SCALE
HOR 1:2000
VERT 1:200

SHEET 10 OF 12

PLAN No.
C45233

C45233