

LAMPIRAN

Daftar Dokumen Lampiran :

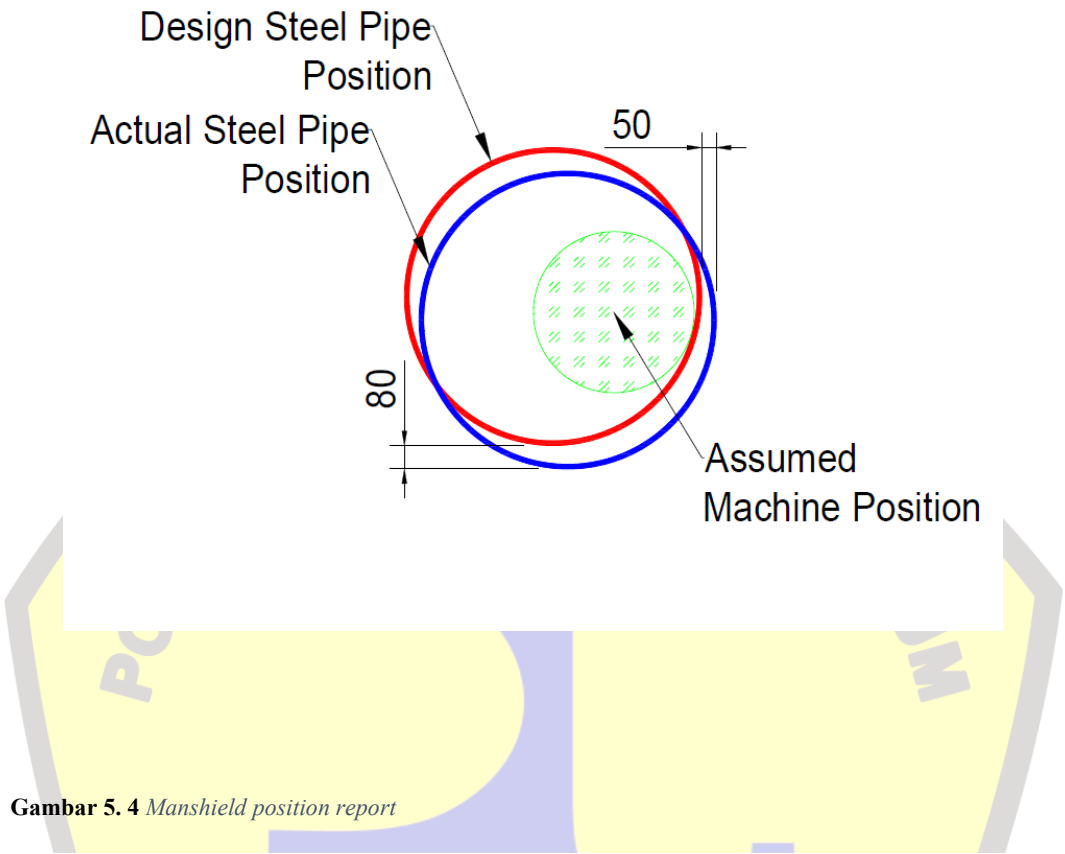
Gambar 5.1 *Water meter*



Gambar 5.2 *Water meter*

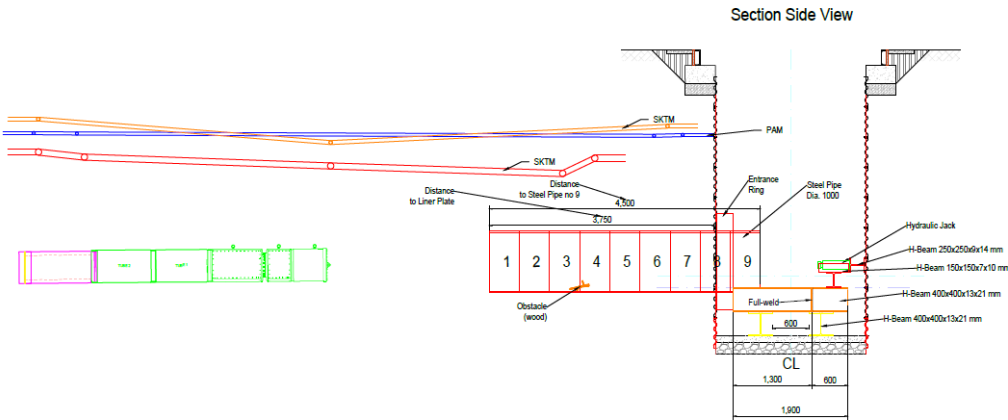


Gambar 5.3 *Pipe not in centerline*



Gambar 5.4 *Manshield position report*

Sunday/16 March 2025



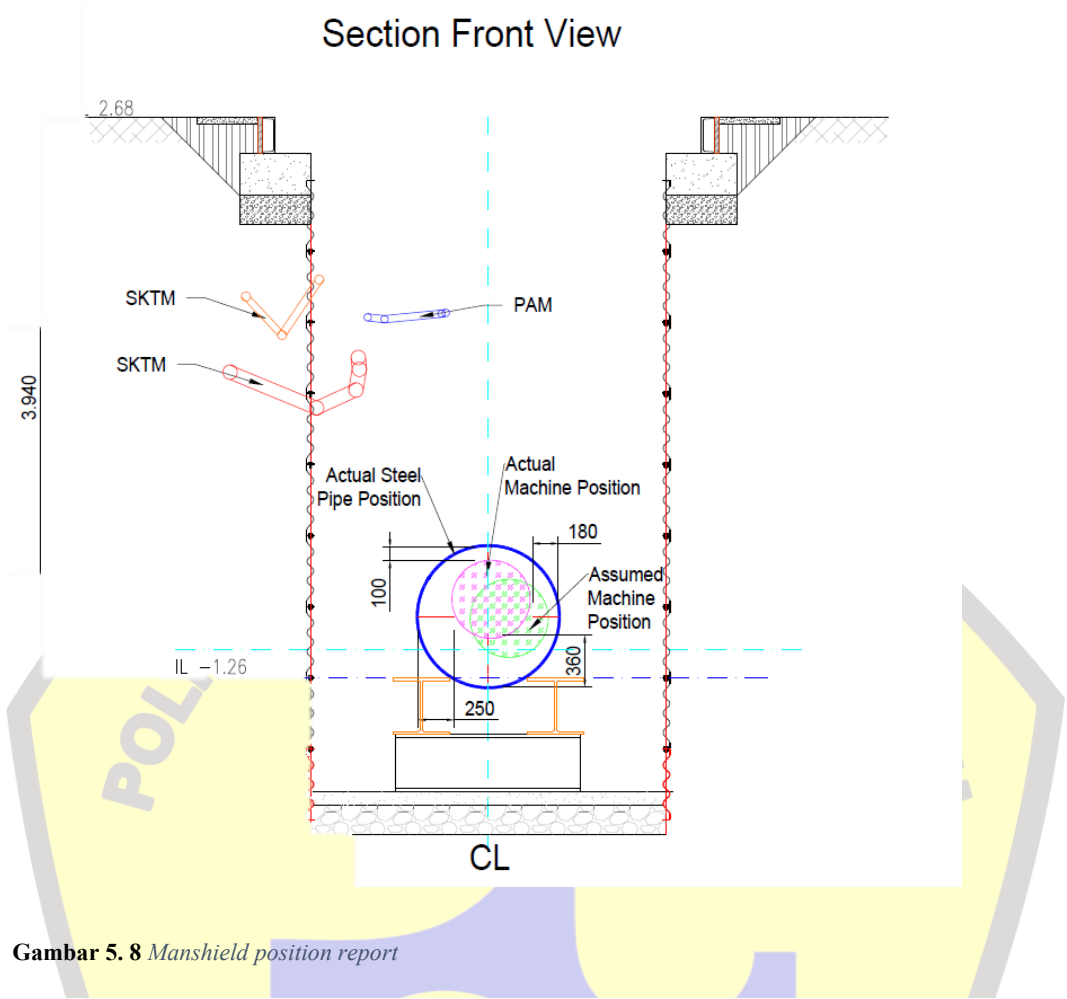
Tuesday/18 March 2025



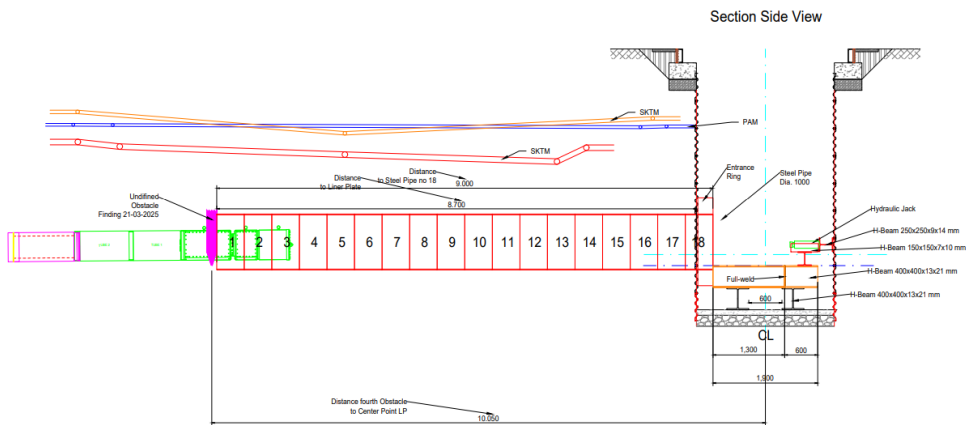
Tuesday/10 March 2020



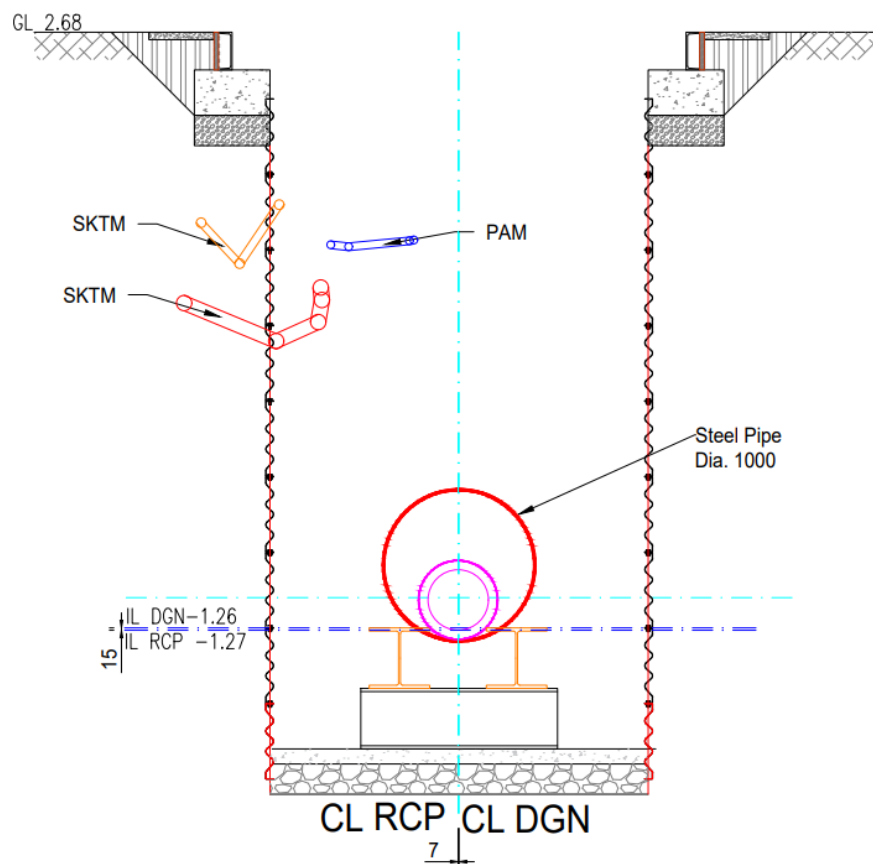
Gambar 5.7 *Manshield position report*



Gambar 5.8 *Manshield position report*



Section Front View



Gambar 5. 11 Joint Survey Machine

KG-WIKA-JAKON JOINT VENTURE
Kumagal Gumi Co., Ltd.
PT. Wijaya Karya (Persero) Tbk.
PT. Jaya Konstruksi Manggala Pratama Tbk

JAKARTA SEWERAGE DEVELOPMENT PROJECT (Zone 1)

ELEVATION

C-19/1.1 → C-19/1.2 (PIPE JACKING)
JL. TANAH SEREAL
RCP 99

Date: 24/03 Page: 1 To
Surveyor: EKO FITRIANTO
Instrument: TOPCON GM-50

TARGET	No.	BACK SIGHT		FRONT SIGHT		ELEVATION		DEVIATION		REMARK
		Middle Hair	Top Bottom	Middle Hair	Top Bottom	Actual	Design	-	+	
	1.					-1.004	-1.600	0.004		INVERT LEVEL C-19/1.1
	2.					-1.275	-1.260	0.015		INVERT LEVEL C-19/1.2

CENTERLINE	COORDINATE CL		DEVIATION
	X	Y	
DESIGN	700369.906	9318941.024	0.005
ACTUAL	700369.911	9318941.024	

CENTERLINE	COORDINATE CL		DEVIATION
	X	Y	
DESIGN	710376.227	9319059.904	0.007
ACTUAL	710376.234	9319059.904	

DESIGN = 118.385
ACTUAL = 118.331

DESIGN = 118.385
ACTUAL = 118.331

DESIGN SLOPE = 0.220 %
ACTUAL SLOPE = 0.227 %
RCP DISTANCE = 119.048

Prepared by
PT.TOHOMAMANDIRI

[Signature]
AANEP. Budak

Checked by
KWJV

[Signature]
EKO.F

Approved by
OCMY

[Signature]
Nadhrilah

24/03

VJV-SVY-004

Gambar 5. 12 Joint Survey machine back tube 2





KG-WIKA-JAKON JOINT VENTURE
 Kumagai Gumi Co., Ltd.
 PT. Wijaya Karya (Persero) Tbk.
 PT. Jaya Konstruksi Manggala Pratama Tbk

JAKARTA SEWERAGE DEVELOPMENT PROJECT (Zone 1)

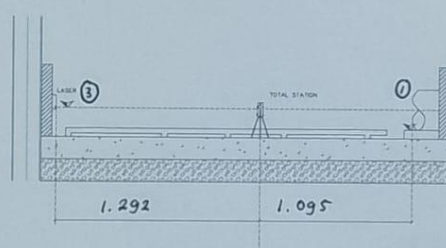
PACKAGE: SURVEY ELEVATION

Ref. Point	PIPA JACKING C-19/1.1 ~ C-19/1.2	Date	12/01/11 Page 1 To
Location	JL. TANAH SEREAL	Surveyor	EKO FITRIANDI
Section	MESIN CUTTER 1	Instrument	TOPCON GM-50

Segment	No.	BACK SIGHT		FRONT SIGHT		ELEVATION		DEVIATION		REMARK
		Middle Hair	Top Bottom	Middle Hair	Top Bottom	Actual	Design	-	+	
	1.					-1.011	-1.000	0.011		INVERT LEVEL
	2.					-0.731				LASER TARGET
	3.					-0.729				LASER

Sketch:

CODE	COORDINATE DESIGN CL		COORDINATE ACTUAL CL		DEVIATION
	X	Y	X	Y	
CL	700369.870	9318740.705	700369.894	9318940.706	0.004





DESIGN SLOOP LASER = 0.22
 ACTUAL SLOOP LASER =

Prepared by

Totomasa

Hidayat

Checked by

KWJ/V

EKO

Approved by

OCMY

Gambar 5.13 Joint Survey RCP4



KG-WIKA-JAKON JOINT VENTURE
 Kumagai Gumi Co., Ltd.
 PT. Wijaya Karya (Persero) Tbk.
 PT. Jaya Konstruksi Manggala Pratama Tbk.

JAKARTA SEWERAGE DEVELOPMENT PROJECT (Zone 1)

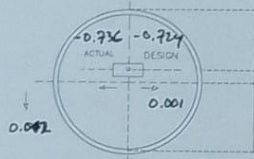
PACKAGE : **SURVEY ELEVATION**

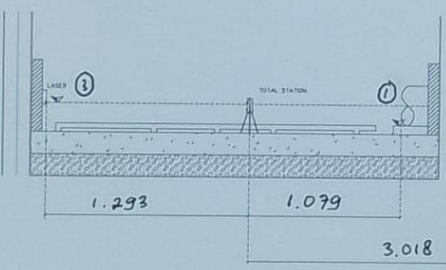
Ref. Point	PIPE JACKING C-18/1.1 ~ C-18/1.2	Date	12/6/20 Page 1 To
Location	JL. TANAH SEREAL	Surveyor	ENDO PITRIANTO
Section	TUBE 2	Instrument	TOPCON GM-50

Segment	No.	BACK SIGHT		FRONT SIGHT		ELEVATION		DEVIATION		REMARK
		Middle Hair	Top Bottom	Middle Hair	Top Bottom	Actual	Design	-	+	
	1.					-1.010	-1.000	0.010		INVERT LEVEL
	2.					-0.736	-0.724	0.012		LASER TARGET
	3.					-0.714				LASER

Sketch :

CODE	COORDINATE DESIGN CL		COORDINATE ACTUAL CL		DEVIATION
	X	Y	X	Y	
CL	700369.991	9318942.626	700269.992	9318942.626	0.001





DESIGN SLOPE LASER = 0.21
 ACTUAL SLOPE LASER =

Prepared by

Tohoma

(Hidayat)

Checked by

KWJ/V

[Signature]

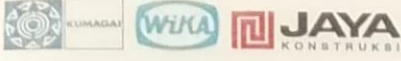
(ENDO F)

Approved by

OCMY

()

Gambar 5. 14 Joint Survey RCP 15



KG-WIKA-JAKON JOINT VENTURE
 Kumagai Gumi Co., Ltd.
 PT. Wijaya Karya (Persero) Tbk.
 PT. Jaya Konstruksi Manggala Pratama Tbk.

JAKARTA SEWERAGE DEVELOPMENT PROJECT (Zone 1)

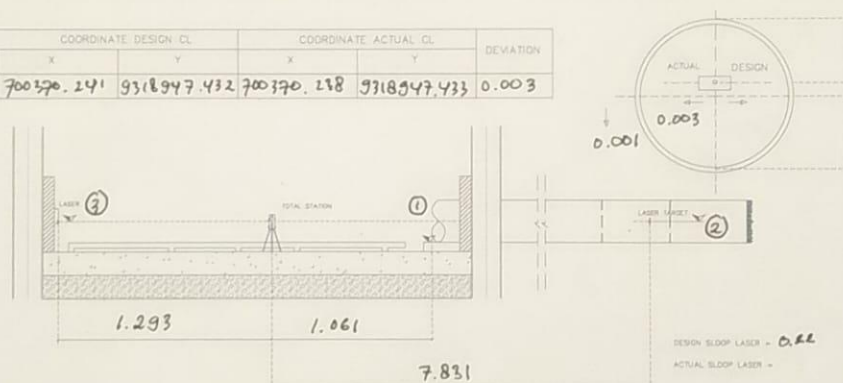
PACKAGE : **SURVEY ELEVATION**

Ref Point	PIPE JACKING C-19/1.1 ~ C-19/1.2	Date	13/12/2018 Page 1 To
Location	JK. TANAH SEREAL	Surveyor	EKO FITRIANTO
Section	RCP 4	Instrument	TOPCON GM-50

TARGET		BACK SIGHT		FRONT SIGHT		ELEVATION		DEVIATION		REMARK
		Middle Hair	Top Bottom	Middle Hair	Top Bottom	Actual	Design	-	+	
Segment	No.									
	1.					-1.014	-1.000	0.014		INVERT LEVEL
	2.					-0.736	-0.735	0.001		LASER TARGET
	3.					-0.714				LASER

Sketch :

COORDINATE DESIGN CL			COORDINATE ACTUAL CL			DEVIATION
CODE	X	Y	X	Y		
CL	700370.241	9318947.432	700370.238	9318947.433	0.003	



DESIGN SLOPE LASER = 0.22

ACTUAL SLOPE LASER =

Prepared by
PT.TOHOMAMANDIRI

13/12/2018

AGUNG F. BUDI R.

Checked By :
KWJJV

EKO F.

Approved by
OCMY

Gambar 5.15 Joint Survey RCP 39





KG-WIKA-JAKON JOINT VENTURE
 Kumagai Gumi Co., Ltd.
 PT. Wijaya Karya (Persero) Tbk.
 PT. Jaya Konstruksi Manggala Pratama Tbk

JAKARTA SEWERAGE DEVELOPMENT PROJECT (Zone 1)

PACKAGE : **SURVEY ELEVATION**

Ref Point: **PIPE JACKING C-19/1.1 ~ C-19/1.2**

Location: **JL. TANAH CEREAL**

Section: **RCP 15**

Date: **14/01/15** Page: **1** To: **1**

Surveyor: **EKO FITRIANITO**

Instrument: **TOPCON GM-SD**

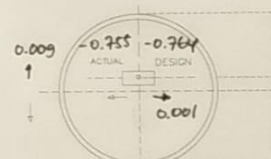
TARGET		BACK SIGHT		FRONT SIGHT		ELEVATION		DEVIATION		REMARK
Segment	No.	Middle Hair	Top	Middle Hair	Top	Actual	Design	-	+	
			Bottom		Bottom					
	1.					-1.010	-1.000	0.010		INVERT LEVEL
	2.					-0.755	-0.764		0.009	LASER TARGET
	3.					-0.714				LASER

Sketch :

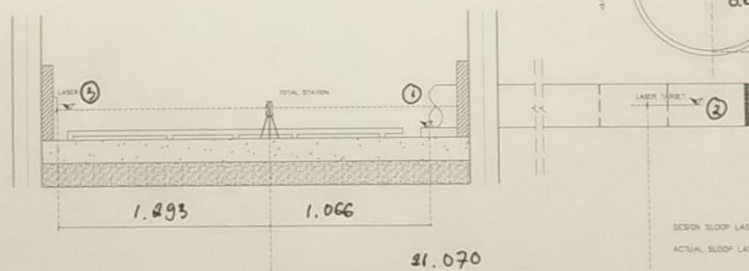
CODE	COORDINATE DESIGN CL		COORDINATE ACTUAL CL		DEVIATION
	X	Y	X	Y	
CL	700370.949	9318960.652	700370.949	9318960.653	0.001

0.009

↑



0.001



DESIGN SLOOP LASER = 0.11

ACTUAL SLOOP LASER =

Prepared by:
PT. TOHOMA MANGGALA

[Signature]
Budi K.

Checked By:
KWJIV

[Signature]
Eko F.

Approved by:
OCMY

[Signature]

Gambar 5.16 Joint Survey RCP5 51

KG-WIKA-JAKON JOINT VENTURE
 Kumagai Gumi Co., Ltd.
 PT. Wijaya Karya (Persero) Tbk.
 PT. Jaya Konstruksi Manggala Pratama Tbk





JAKARTA SEWERAGE DEVELOPMENT PROJECT (Zone 1)

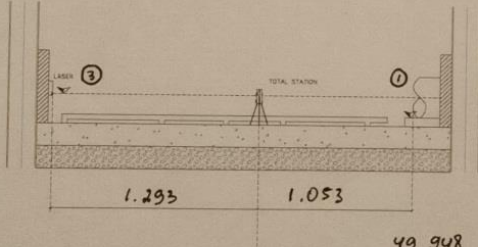
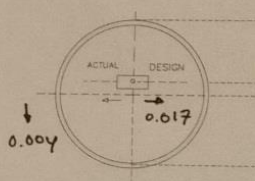
PACKAGE :
SURVEY ELEVATION

Ref Point	PIPA JACKING C-19/1.1 ~ C-19/1.2	Date	16/15 Page 1 To
Location	JL. TAMAH SEREAL	Surveyor	EKO FITRIANTO
Section	RCP 39	Instrument	TOPCON GM-10

TARGET		BACK SIGHT		FRONT SIGHT		ELEVATION		DEVIATION		REMARK
		Middle Hair	Top	Middle Hair	Top	Actual	Design	-	+	
Segment	No.									
	1.					-1.010	-1.000	-0.010		INVERT LEVEL
	2.					-0.831	-0.827	-0.004		LASER TARGET
	3.					-0.714				LASER

Sketch :

COORDINATE DESIGN CL				COORDINATE ACTUAL CL				DEVIATION
CODE	X	Y		X	Y			
CL	700372.495	9318989.490		700372.512	9318989.488		0.017	

DESIGN SLOPE LASER = 0.22
ACTUAL SLOPE LASER =

Prepared by
PT.TOHOMA MANDIRI

(Signature)
AGUNG P. BUDI K.

Checked By :
KWJJV

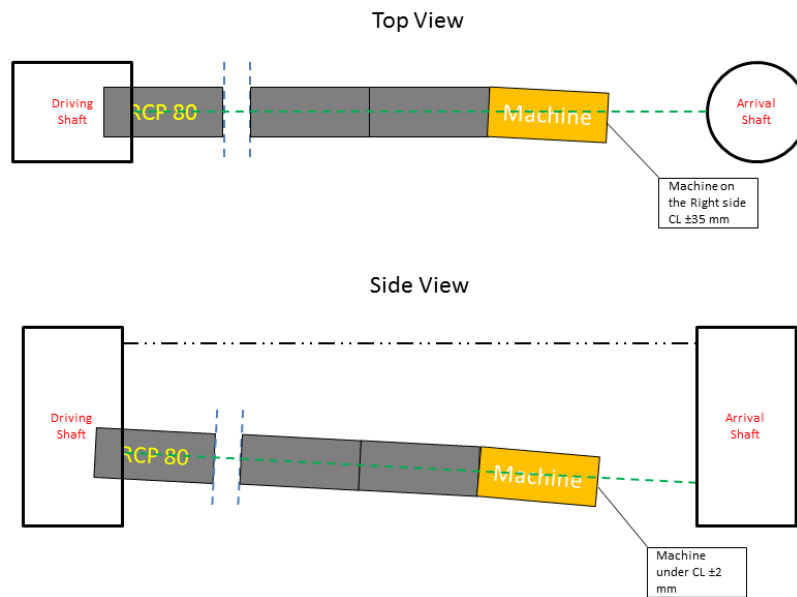
(Signature)
ZACHARY EKO F.

Approved by
OCMY

(Signature)

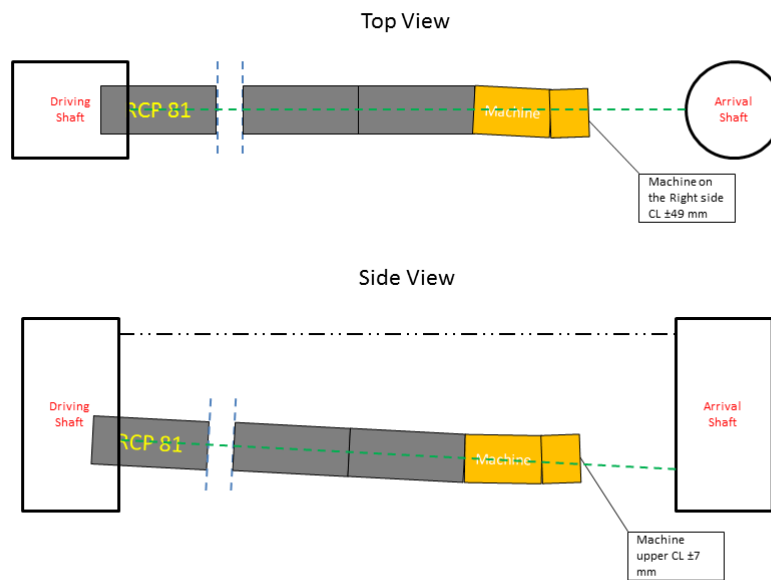
Gambar 5. 17 *Depends on the monitor on board RCP 80*

Depends on the Monitor on Board



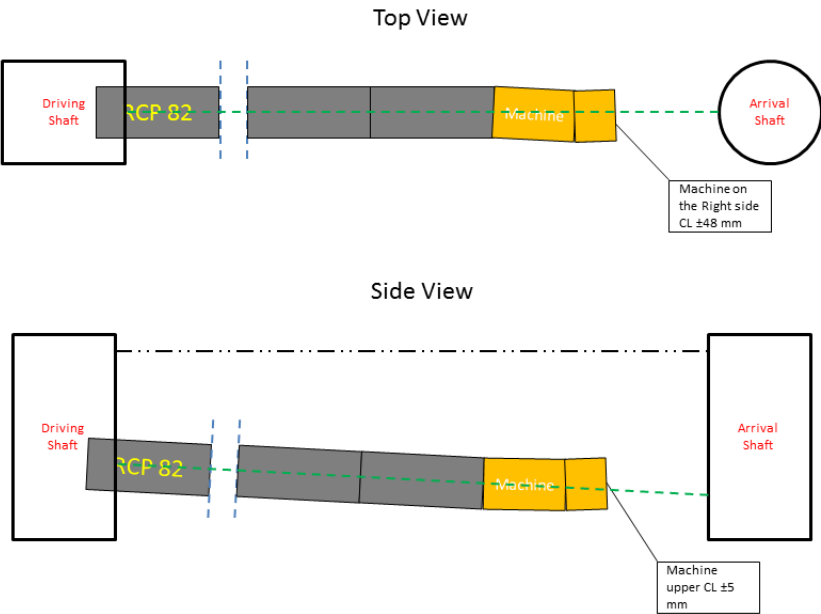
Gambar 5. 18 *Depends on the monitor on board RCP 81*

Depends on the Monitor on Board



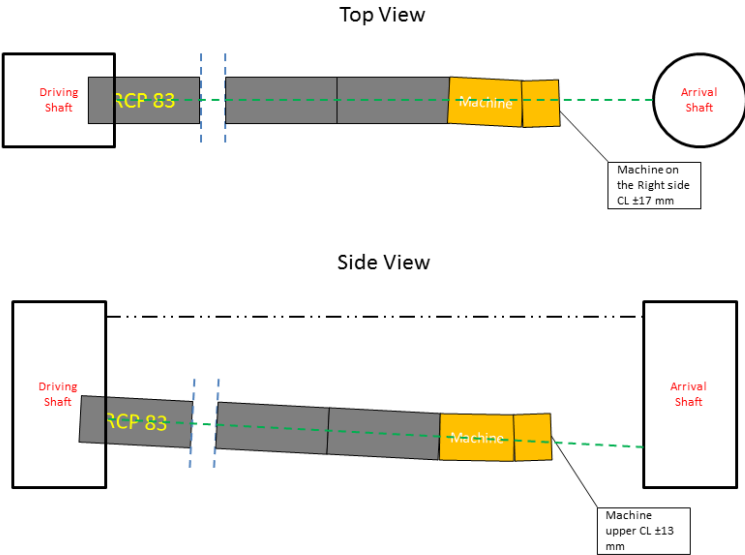
Gambar 5. 19 *Depends on the monitor on board RCP 82*

Depends on the Monitor on Board



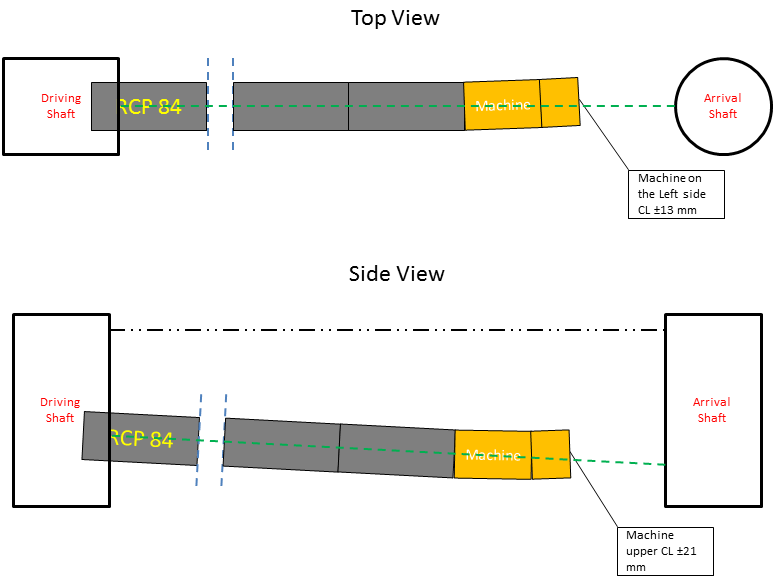
Gambar 5. 20 *Depends on the monitor on board RCP 83*

Depends on the Monitor on Board



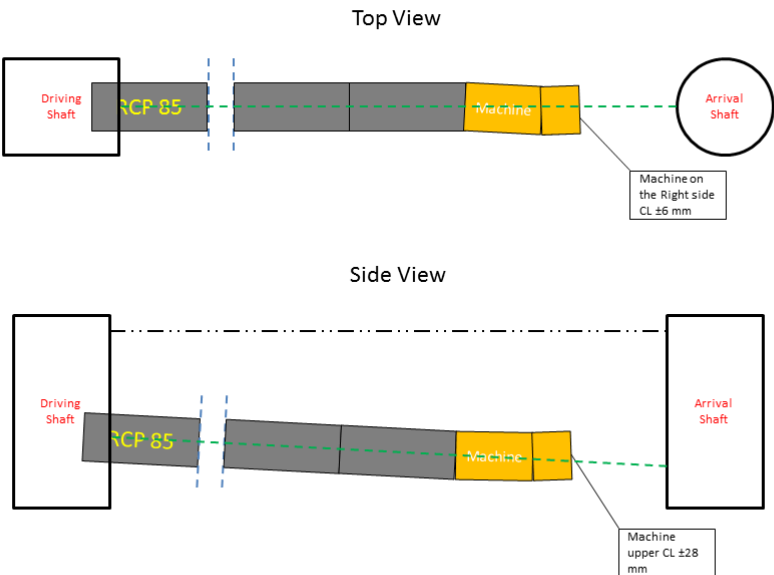
Gambar 5. 21 *Depends on the monitor on board RCP 84*

Depends on the Monitor on Board



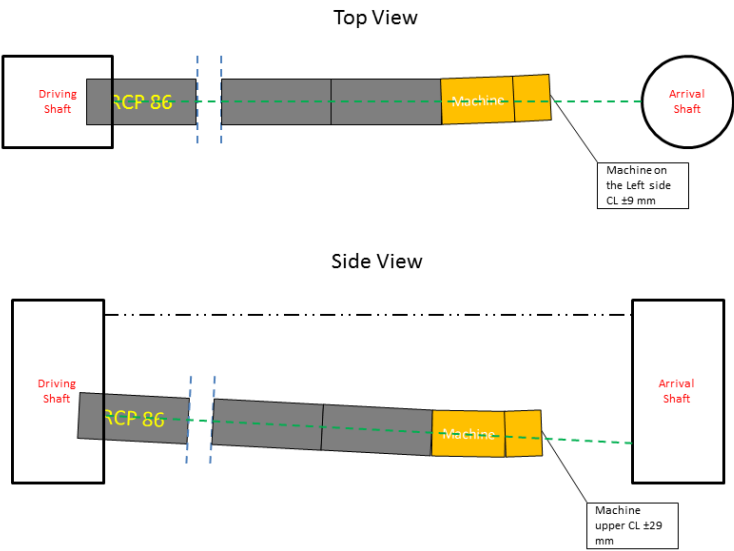
Gambar 5. 22 *Depends on the monitor on board RCP 85*

Depends on the Monitor on Board



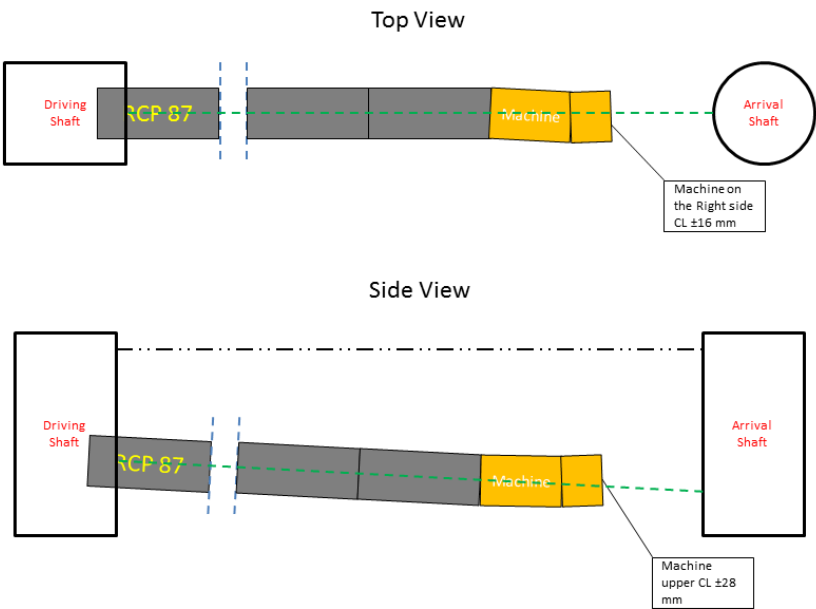
Gambar 5. 23 *Depends on the monitor on board RCP 86*

Depends on the Monitor on Board



Gambar 5. 24 *Depends on the monitor on board RCP 87*

Depends on the Monitor on Board



Gambar 5. 25 *Instal hydraulic jack*





KEMENTERIAN PEKERJAAN UMUM DAN PERUMAHAN RAKYAT
BADAN PENGEMBANGAN SUMBER DAYA MANUSIA
POLITEKNIK PEKERJAAN UMUM
Jalan Prof. Soedarto, SH No.15 Tembalang, Semarang 50275, Telp/Fax.024-7472848
Web : www.politeknikpu.ac.id, e-mail : info@politeknikpu.ac.id



**PROGRAM STUDI TEKNOLOGI KONSTRUKSI BANGUNAN GEDUNG
POLITEKNIK PEKERJAAN UMUM**

**LEMBAR ASISTENSI
BIMBINGAN MAGANG / PRAKTEK KERJA LAPANGAN**

NAMA	:	AUDYA PUTRI PRATIDINA / 223012
	:	M. BAKHREL SYAFAQ AL-BARA / 223049
NAMA PERUSAHAAN	:	KUMAGAI GUMI – WIJAYA KARYA – JAYA KONSTRUKSI JOINT VENTURE
NAMA PEKERJAAN	:	CONSTRUCTION OF SEWERS IN AREA 1-1 JAKARTA SEWERAGE DEVELOPMENT PROJECT (ZONE 1) (PACKAGE 2)
LOKASI	:	KOTA JAKARTA PUSAT, PROVINSI DKI JAKARTA
DOSEN PEMBIMBING	1 :	Sukardi, S.T., M.T
	2 :	Hendra Adi Wijaya, S.T., M.T
NAMA PEMBIMBING / MENTOR	1 :	Riki Yulanda (Kepala Kasie Quality Assurance/Quality Control)

NO.	HARI	TANGGAL	KEGIATAN YANG DILAKUKAN	TANDA TANGAN
1	Senin	17 Februari 2025	1. Melakukan bimbingan alur penyusunan tugas akhir dan laporan magang. 2. Memberikan penjelasan mengenai penulisan judul tugas akhir, laporan magang, studi kasus, dan pengolahan data. 3. Melakukan tinjauan terhadap bab 1 pada tugas akhir dan laporan magang untuk memastikan kelengkapan serta kesesuaian isi.	
2	Kamis	8 Mei 2025	1. Melakukan tinjauan terhadap bab 1 hingga bab 3 pada tugas akhir dan laporan magang untuk memastikan kelengkapan serta kesesuaian isi.	



NO.	HARI	TANGGAL	KEGIATAN YANG DILAKUKAN	TANDA TANGAN
			2. Melakukan bimbingan terkait isi dan pengolahan data tugas akhir serta laporan magang.	
3	Senin	2 Juni 2025	1. Melakukan tinjauan terhadap bab 3 hingga bab 4 pada tugas akhir untuk memastikan kelengkapan serta kesesuaian isi. 2. Melakukan bimbingan terkait penulisan dan penelitian pada tugas akhir.	
4	Selasa	1 Juli 2025	1. Melakukan tinjauan terhadap bab 4 pada tugas akhir dan laporan magang untuk memastikan kelengkapan serta kesesuaian isi.	
5	Selasa	8 Juli 2025	1. Melakukan tinjauan terhadap bab 1 hingga bab 5 pada tugas akhir dan laporan magang untuk memastikan kelengkapan serta kesesuaian isi. 2. Melakukan bimbingan secara keseluruhan.	
6	Sabtu	26 Juli 2025	1. Melakukan tinjauan terhadap bab 1 hingga bab 5 pada tugas akhir dan laporan magang untuk memastikan kelengkapan serta kesesuaian isi. 2. Melakukan asistensi secara keseluruhan.	